



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: October 13, 2014

From: Purvi Patel

Project Planner

**Location:** North side of Olive Street Road, west of its intersection with Chesterfield Airport

Road

**Applicant:** South Side Property, LLC

Description: Chesterfield Blue Valley, Lot 1A (Site Development Section Plan - Gas Mart): A

Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and an Architect's Statement of Design for a 2.07 acre tract of land zoned "PC" Planned Commercial District located on the north side of Olive

Street Road, west of its intersection with Chesterfield Airport Road.

### **PROPOSAL SUMMARY**

South Side Property, LLC, has submitted a request for a twenty-eight (28) foot tall, 13,785 square foot convenience store, car wash, gas station, and fast food restaurant located on the north side of Olive Street Road, west of its intersection with Chesterfield Airport Road. The subject site is zoned "PC" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 2612. The exterior building materials will be comprised of stone, brick, simulated stucco (EFIS), and prefinished aluminum storefront windows. The proposal also includes a low sloping roof with parapet walls and metal roofing on the car wash and entry cupolas.

### **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 in May 2012; followed by a Record Plat approval in July 2012. Most recently, the Resubdivision Plat of Lot 1 was approved to subdivide Lot 1 into eight (8) smaller lots.

Lot 1A will be the second lot in Chesterfield Blue Valley to be developed, the first being Lot 2 (St. Louis Premium Outlets). The Site Development Section Plan and Amended Site Development Section Plan for Lot 2 were approved in February 2012 and March 2013, respectively. The Outlet Mall is planning a second phase which is currently under review with Staff.

### **Land Use and Zoning of Surrounding Properties**

Direction	Land Use	Zoning
North	Chesterfield Blue Valley (Vacant)	"PC" Planned Commercial District
South	Gas Station/ C-Store	"C8" Planned Commercial District
East	Concrete Plant	"M-3" Planned Industrial District
West	Chesterfield Blue Valley (Vacant)	"PC" Planned Commercial District



Figure 1 – Aerial

### **STAFF ANALYSIS**

### Zoning

The subject site is zoned "PC" Planned Commercial District under the terms and conditions of City of Chesterfield Ordinance 2805. The submittal was reviewed against and adheres to the requirements of this ordinance and all applicable City Code requirements.

### **Access and Site Circulation**

The proposal includes one access point off of Convenience Way which will serve as a shared access drive for Lot 1A and Lot 1B (shown in yellow on the image below). Convenience Way is a private drive accessed off of Olive Street Road and Outlet Boulevard. The proposed development will not have direct access on Chesterfield Airport Road or Olive Street Road. Furthermore, access to Convenience Way off Olive Street Road is a right-in/right-out access only and has a dedicated right turn lane up to its intersection with Outlet Boulevard.

Additionally, the developer has proposed a five (5) foot sidewalk along Olive Street Road which will tie into a four (4) foot sidewalk along Convenience Way. Both sidewalks will ultimately be tied into adjoining properties to provide a continuous pedestrian access throughout the development.

### **Internal Circulation**

The gas canopy is centrally located on the site (shown in red on Figure 2) and immediately to the right of the canopy is the ATM. This is a stand-alone ATM and the canopy will not extend over this area. The convenience store/restaurant is located closer to Chesterfield Airport Road (shown in blue below) and will have an automated carwash attached to it (shown in green). The site circulation is configured around these structures and meets all the minimum City Code requirements.

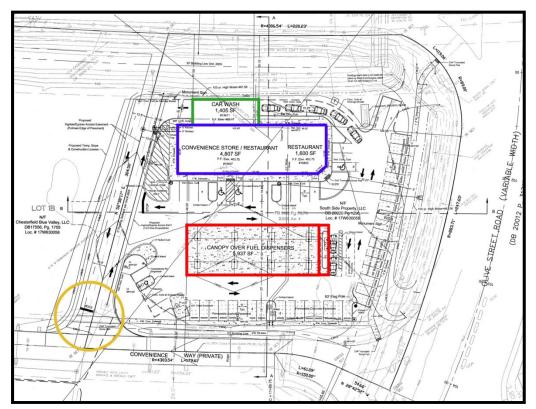


Figure 2 – Site Development Section Plan

### **Parking**

Parking for the site is provided near the entrances to the main structure, as well as around the gas canopy. The number of parking spaces required by Off-Street Parking, Stacking, and Loading Regulations is 55 spaces and the proposal is for 55 spaces which include 3 ADA accessible spaces.

### **Landscaping and Open Space**

The request includes landscaping as directed by the City of Chesterfield Tree Preservation and Landscape Requirements. As required by code, street trees must be provided along public rights-of-way while no plantings are allowed in drainage swales or ditches. As there are two drainage swales along Olive Street Road and Chesterfield Airport Road, the applicant is not providing any trees along these rights-of-way. Due to the restrictions associated with the swales, the applicant is providing additional trees throughout the development. The Landscape Plan also depicts plantings along the private drive, Convenience Way, and within the site as required by the Tree Preservation and Landscape Requirements.

The planned district ordinance for the Chesterfield Blue Valley development requires a minimum of 30% open space for the development. However, the site as proposed shows 35% open space and most of the open space is provided on the outskirts of the property as majority of the interior site will be paved.

### Lighting

Several light standards in the parking lot and along the shared access drive as well as seven (7) building mounted fixtures are included by the developer. The parking area fixtures are LED outdoor and area lights that are fully shielded, full cut off optics which adhere to the City of Chesterfield Lighting Standards. The building mounted light fixtures are LED sconces and are full cut off optics which minimize glare and light trespass. The proposal also includes twenty-four (24) LED fixtures which will be mounted under the gas station canopy. The City of Chesterfield Lighting Standards requires an average illumination level of no greater than 22 footcandles around the pump islands and under canopies. The illumination level proposed with this development submittal is well under this requirement at 13.05 footcandles.

The cut-sheets for all these proposed fixtures are attached to this report.

### **Architectural Elevations**

The applicant is proposing a single story building of approximately twenty-eight (28) feet in height with a tunnel carwash. The building height is similar to properties in adjacent commercial and industrial developments. In addition to the carwash use, the convenience store will also be designed to accommodate a 1,600 square foot fast food restaurant tenant with no drive-thru component.

The building design features elevations that are articulated with stone, brick, simulated stucco (EFIS) and metal finishes. The building also includes a low sloping roof with parapet walls and a prefinished metal cap, which will screen roof-top equipment. Furthermore, the design includes entry cupolas that are enhanced with stone to match the column design on the corners of the building. This stone design will be wrapped around to the entrance and exit of the carwash tying the carwash into the convenience store, creating one seamless structure.

The material colors include light earth tones with dark accent colors, similar to the St. Louis Premium Outlet Mall in the same development. The simulated stucco (EFIS) will have a beige finish with brick

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colored medallions on the front and side of the building and copper green patina finish in the rear to match the downspouts. The green patina finish will be carried over onto the standing seam metal roof as well as to tie in the colors and materials together.

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 5, 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 July 10<sup>th</sup>, 2014. A motion to forward to the Planning Commission was approved by the ARB by a vote of 6-0 with the following two (2) recommendations:

- Explore opportunities to provide additional greenspace with landscaping around the trash enclosure. If that is not possible, provide additional landscaping around the trash enclosure to decrease visibility.
- 2. Include additional landscaping beneath the trees in the three (3) parking islands closest to the building.

In response to the ARB's recommendations, the applicant has increased the greenspace by including landscaping around the trash enclosure. The proposal includes red switch grass and hibiscus around the trash enclosure and both these plants can get up to five (5) feet tall and will provide the recommended screening. Additionally, the applicant added drift rose shrubs around the trees in the three (3) parking islands closest to the building. These plants will provide ground cover around the trees, enhancing the landscaping of the parking islands.

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Planning Commission October 13, 2014

### Signage

Planning Commission approved a Sign Package for the overall Chesterfield Blue Valley development on February 25<sup>th</sup>, 2013. As this is a corner lot, two (2) monument signs are permitted per the Sign Package; however, the signs have to maintain a minimum distance of one hundred (100) feet of separation and there cannot be more than one (1) monument sign per street frontage. The applicant is proposing signs along Olive Street Road and Chesterfield Airport Road and these signs meet the minimum distance requirements stated in approved Sign Package. The size and design of the sign will be reviewed against the Sign Package prior to construction and if compliant will be approved by Staff.

### **DEPARTMENT INPUT**

Staff has reviewed the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design and has found the proposal to be in compliance with the site specific ordinance, the Site Development Concept Plan, Comprehensive Plan, and all City Code requirements. Staff recommends approval of the proposed development of Chesterfield Blue Valley, Lot 1A (Gas Mart).

### **MOTION**

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

- "I move to approve (or deny) the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Chesterfield Blue Valley, Lot 1A (Gas Mart).
- 2) "I move to approve the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Chesterfield Blue Valley, Lot 1A (Gas Mart), with the following conditions..." (Conditions may be added, eliminated, altered or modified)

CC: Aimee Nassif, Planning and Development Services Director

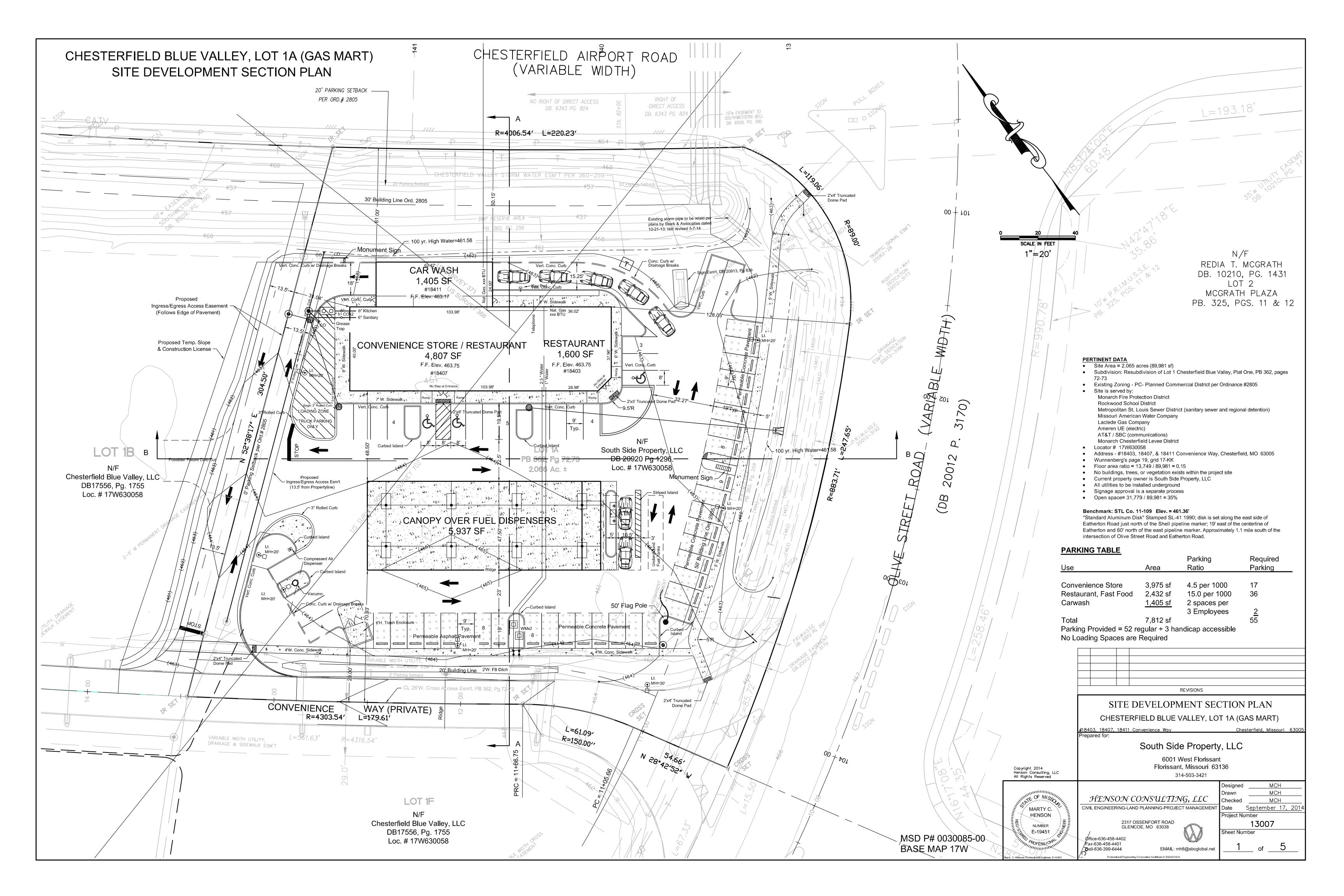
Attachments: Site Development Section Plan

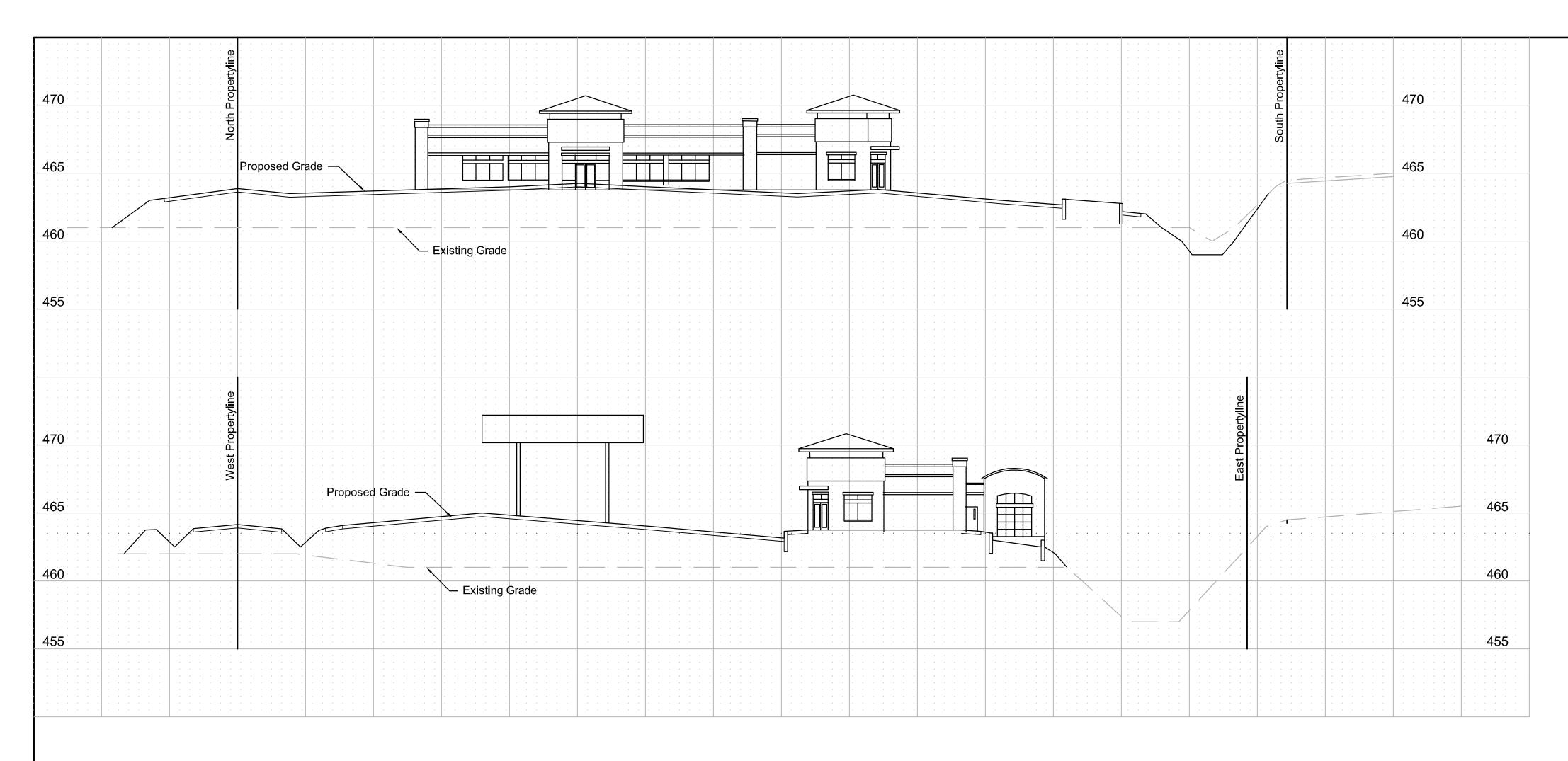
Landscape Plan
Lighting Plan
Lighting Cut-sheets

Architect's Statement of Design

**Architectural Elevations** 

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SCRIPT FOR SITE DEVELOPMENT PLAN

DESCRIPTION: LOT 1A

A TRACT OF LAND BEING LOT 1A OF A RESUBDIVISION OF LOT 1 OF CHESTERFIELD BLUE VALLEY PLAT ONE, A SUBDIVISION ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 362 PAGES 72 & 73 OF THE ST. LOUIS COUNTY, MISSOURI RECORDS, AND BEING PART OF U.S. SURVEYS 102, 368 AND 371 IN TOWNSHIP 45 NORTH, RANGE 3 EAST OF THE FIFTH PRINCIPAL MERIDIAN, CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE WESTERN LINE OF CHESTERFIELD AIRPORT ROAD WITH THE NORTHERN LINE OF RELOCATED OLIVE STREET ROAD AS SHOWN ON THE PLAT OF A RESUBDIVISION OF LOT 1A OF CHESTERFIELD BLUE VALLEY PLAT ONE, A SUBDIVISION ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 362 PAGES 72 & 73 OF THE ST. LOUIS COUNTY, MISSOURI RECORDS; THENCE ALONG THE NORTHERN LINE OF RELOCATED OLIVE STREET ROAD IN A SOUTHWESTERLY DIRECTION ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 89.00 FEET, AN ARC LENGTH OF 119.06 FEET, AND A CHORD WHICH BEARS SOUTH 06 DEGREES 54 MINUTES 22 SECONDS WEST, A CHORD DISTANCE OF 110.37 FEET TO A POINT OF COMPOUND CURVATURE: THENCE ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 883.71 FEET, AN ARC LENGTH OF 247.65 FEET, AND A CHORD WHICH BEARS SOUTH 53 DEGREES 15 MINUTES 27 SECONDS WEST, A CHORD DISTANCE OF 246.84 FEET TO A POINT; THENCE LEAVING SAID NORTHERN LINE NORTH 28 DEGREES 42 MINUTES 52 SECONDS WEST, A DISTANCE OF 54.66 FEET TO A POINT; THENCE ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 150.00 FEET, AN ARC LENGTH OF 61.09 FEET, AND A CHORD WHICH BEARS NORTH 40 DEGREES 22 MINUTES 52 SECONDS WEST, A CHORD DISTANCE OF 60.67 FEET TO A POINT OF REVERSE CURVATURE; THENCE ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 4303.54 FEET, AN ARC LENGTH OF 179.61 FEET, AND A CHORD WHICH BEARS NORTH 50 DEGREES 51 MINUTES 07 SECONDS WEST, A CHORD DISTANCE OF 179.60 FEET TO A POINT; THENCE NORTH 52 DEGREES 38 MINUTES 17 SECONDS EAST, A DISTANCE OF 304.50 FEET TO A POINT ON THE AFORESAID WESTERN LINE OF CHESTERFIELD AIRPORT ROAD; THENCE ALONG SAID WESTERN LINE IN A SOUTHEASTERLY DIRECTION ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 4006.54 FEET, AN ARC LENGTH OF 220.23 FEET, AND A CHORD WHICH BEARS SOUTH 52 DEGREES 09 MINUTES 30 SECONDS EAST, A CHORD DISTANCE OF 220.20 FEET BACK TO THE POINT OF BEGINNING AND CONTAINING 2.066 ACRES, MORE OR LESS.

South Side Property, LLC, the owner of the property shown on this plan for and in consideration of being granted approval of said plan to develop property under the provisions of Section 03.04.C, "PC" Planned Commercial District of the City of Chesterfield Unified Development Code, do hereby agree and declare that said property from the date of the recording of this plan shall be developed only as shown hereon, unless said plan is amended by the City of Chesterfield, or voided or vacated by order of ordinance of the City of Chesterfield Council.

Munji Abdeljabbar, Managing Member

STATE OF MISSOURI COUNTY OF ST. LOUIS )

\_\_\_\_, AD 2014, before me appeared Munji Abdeljabbar, to me personally known who, being by me sworn in, did say that he is the Managing Member of South Side Property, LLC, a limited liability company and that said instrument was signed on behalf of said limited liability company and acknowledged said instrument to be the free act and deed of said company.

IN Testimony Whereof, I have hereunto set my hand and affixed my Notarial Seal at my Office in St. Louis County, Missouri, the day and year last above written.

My term expires \_\_\_\_

(Notary Public)

This Site Development Plan was approved by the City of Chesteerfield Planning Commission and duly verified on the , 2014, by the Chairperson of said Commission, aurthorizing the recording of this Site Development Plan pursuant to the Chesterfield Ordinance Number 200, as attested by the Planning and Development Services Director and the City Clerk.

Aimee Nassif, AICP Planning and Development Services Director City of Chesterfield, Missouri

Vickie Hass, City Clerk City of Chesterfield, Missouri

restoration or appropriate witnessing of all Corners of the United States Public Land Survey located within, or which define or lie upon, the out boundaries of the subject tract in accordnace with the Missouri Minimum Standards relating to the preservation and maintenance of the United States Public Land Survey Corners, as

**ABBREVIATIONS** 

Al Area Inlet

ATG Adjust to Grade

B Cor Building Corner

CB Catch Basin

CO Cleanout

Conc Concrete

DB Deed Book

DS Downspout

ChB Chord Bearing

CMP Corrugated Metal Pipe

DCB Double Catch Basin

DFL Downstream Flowline

EP Edge of Pavement

FES Flared End Section

FH Fire Hydrant

FF Finish Floor

Gl Greate Inlet

Gr MH Grated manhole

GM Gas Meter

GV Gate Valve

GW Guy Wire

L Length Lt Light

MH Manhole

FL Flowline

Asph Asphalt

N/F Now or Formerly

OHE Overhead Electric

PVC Polyvinyl Chloride

R/W Right of Way

TB Top of Bank

TBA To be Adjusted

TBR To be Removed

TC Top of Curb

TW Top of Wall

TS Toe of Slope

UIP Use in Place

UP Utility Pole

WM Water Meter

W MH Water Manhole

WV Water Valve

Yl Yard Inlet

Trans Transformer

Typ Typical

TP Top of Pavement

UE Underground Electric

UFL Upstream Flowline

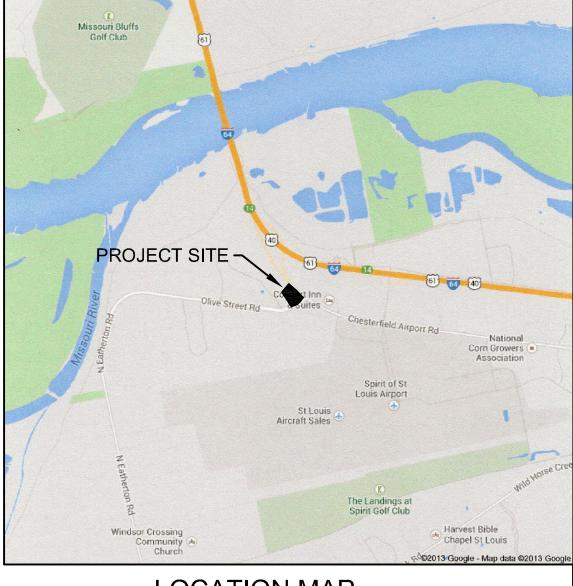
ST Sampling Tee

RCP Reinforced Conc. Pipe

PB Plat Book

PG Page

Prior to issuance of final occupancy, the developer shall cause, at their expense the reestablishment,



### **LOCATION MAP**

## CHESTERFIELD BLUE VALLEY, LOT 1A (GAS MART) SITE DEVELOPMENT SECTION PLAN

LOT 1A of A RESUBDIVISION OF LOT 1 OF CHESTERFIELD BLUE VALLEY PLAT ONE per PLAT BOOK 362, PAGE 72-73

U.S. SURVEYS 102, 360, & 371, TOWNSHIP 45 NORTH, RANGE 3 EAST CITY OF CHESTERFIELD, COUNTY OF ST. LOUIS, MISSOURI

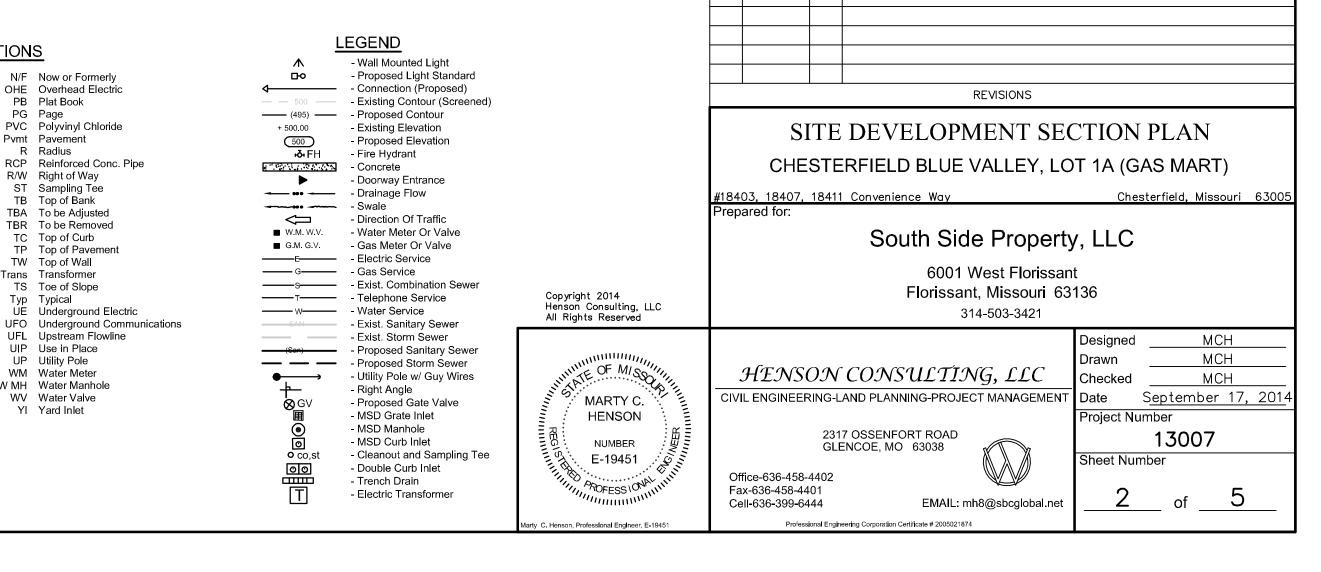
This is to certify that Metron Surveying and Layout Company has prepared an ALTA survey, from which this Site Development Section Plan was prepared. The information shown is a correct representation of all existing and proposed land divisions.

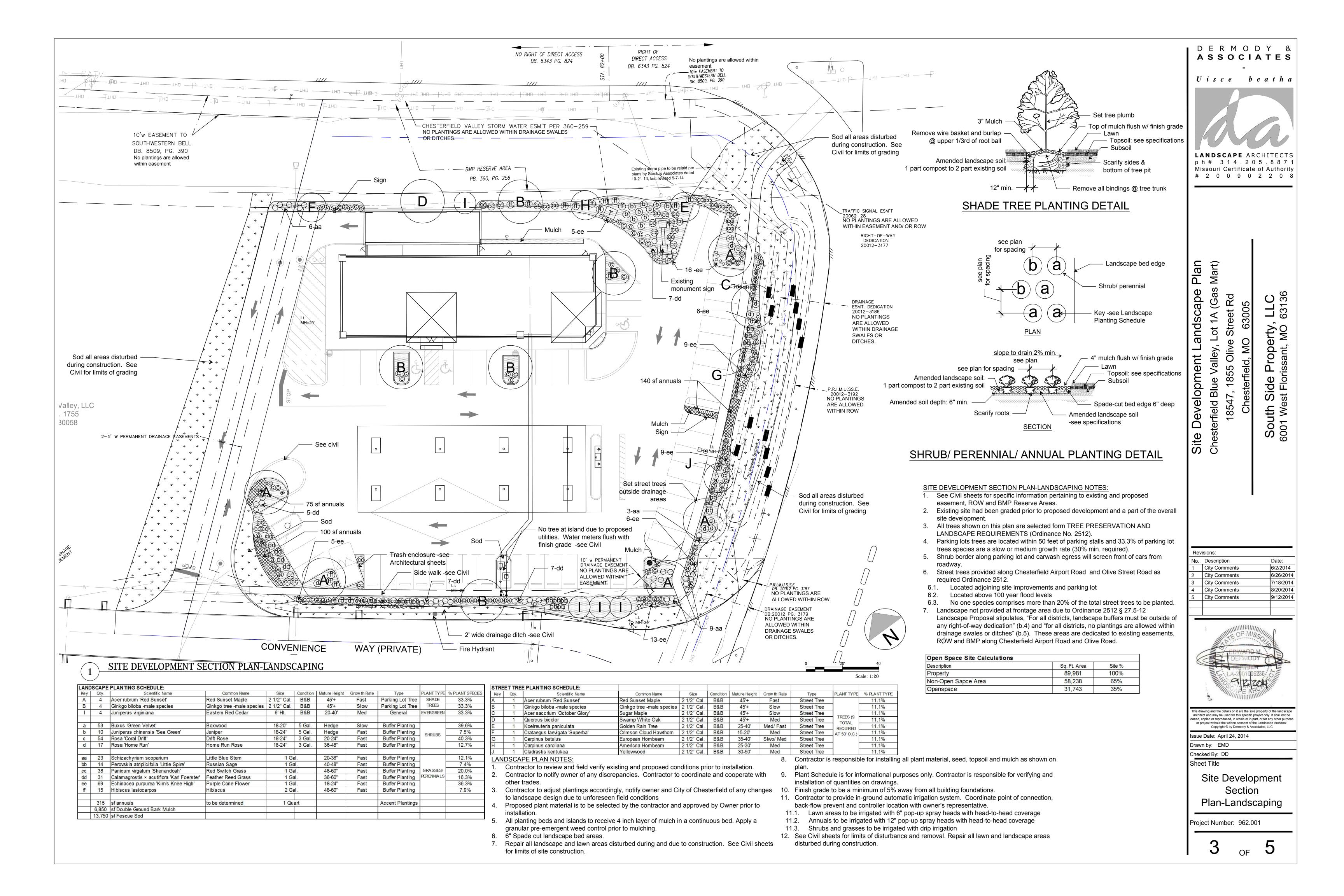
> Metron Surveying & Layout Company 313 Wood Street O'Fallon, MIssouri 63366

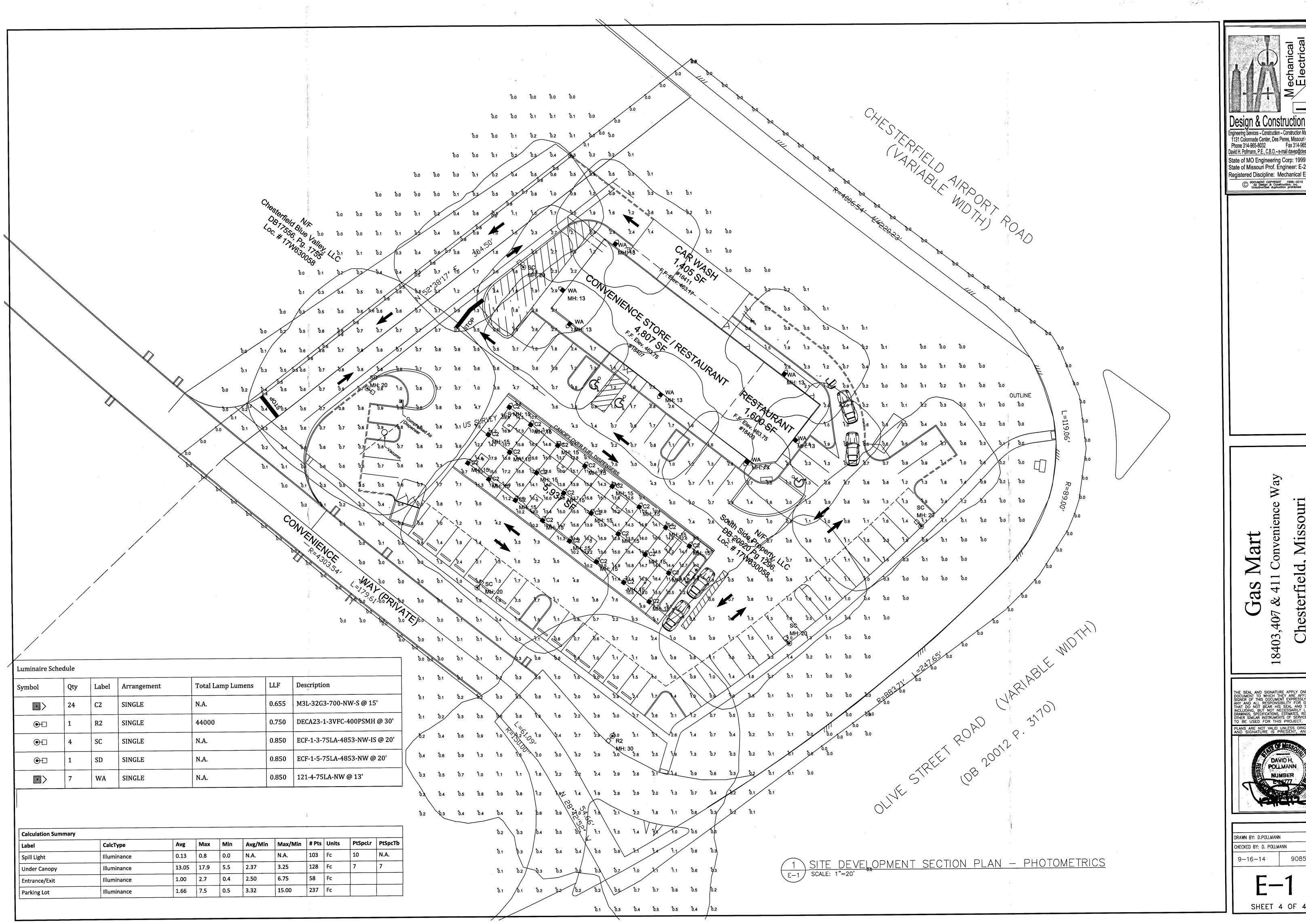
John E. Winkler, Jr. PLS 2006016644

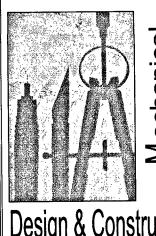
- 1. Existing on-site sanitary discharge/septic tank shall be identified on the plans and abandoned per MSD standard
- 2. Property lines shall be shown to project plans, sewers crossing lease or property lines will be public. Public storm sewers shall be above the normal pool of wet basins.
- 3. The zoning shall be consistent with the regional sanitary pump station design capacity. The sanitary sewers shall be deep enough to serve by gravity the ends of the service area as outlined in the master plan for the pump stations (MSD P#27389-00)
- 4. Caulks Creek surcharge of \$2,750 per acre will apply for this area. For the total area (131 acres) provided in the appplication, this comes to \$360,250. Total acreage to be verified.
- 5. Disturbed areas being more than 1 acre, storm water management practices of water quality will be required. All water quality BMP's shall be designed per current MSD rules and regulations and should be located within the property boundaries. Water quality BMP's on each lot are consisent with low impact practices. Also, the water feature (lake) straddling the Brasher property line should not be degraded by this development. Additionally, a letter of floodplain management compliance from the Monarch-Chesterfield Levee District will be required.
- 6. Private water quality BMP's shall be designed per current MSD rules and regulations and shall be located within "reserve areas" or easements, as appropriate.
- 7. The 100-year ponding limits shall be labeled on all storm water storage basins. 8. Exterior grease traps will be required for any restaurants or commercial kitchens.

Subject property lies within Flood Zone "AE" (Special Flood Hazard Areas Inudated by 100 year flood). base flood elevation determined (Elevation 457) and Flood Zone "AH" Flood depths of one or three feet (ususal areas of ponding). Base flood elevation determined (Elevation 461 and 462) and Shaded Zone "X" (areas of 500-year flood; areas of 100-year flood with average depths of less than one foot or with drainage areas less than one square ile and areas protected by levees from 100-year flood) according to the National Flood Insurance Program Flood Insurance Rate Map for St. Louis County, Missouri and Incorporated Areas. This map is identified as Map No. 29189C0120H with an effective date of August 2, 1995, and revised to reflect LOMR dated April 17, 2000.









Engineering Services ~ Construction ~ Construction Managemer 1131 Colonnade Center, Des Peres, Missouri 63131 Phone 314-965-8032 Fax 314-965-8044 David H. Pollmann, P.E., C.B.O. ~ e-mail davep@design-co.ne State of MO Engineering Corp: 1999141113 State of Missouri Prof. Engineer: E-26777 Registered Discipline: Mechanical Engineer DOCUMENT COPYRIGHT 1999-2010
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POLLMANN

DRAWN BY: D.POLLMANN CHECKED BY: D. POLLMANN 9085 9-16-14



### Gas Mart

### 18539 - 18555 olive Street Road Chesterfield, Missouri

### Statement of Design Intent

This new development for Gas Mart, will occupy an out lot of the Saint Louis Premium Outlet Mail at the northwest corner of Chesterfield Airport Road and OLive Street Road. The proposed building will include a 480T sq.ft. "C" Store, a 1405 sq.ft. Car Wash, and a 1600 sq.ft. Subway Sandwich Shop all in one 7812 sq.ft. building. Also on the site will be 16 gas pump's covered by a canopy, a drive up A.T.M. machine, a Vacuum Island to complement the Car Wash, and a dumpster enclosure.

### 1) Site Layout

### A. Physical Features

1) The existing flat site is currently vacant. There is a perimeter storm water diversion swale along the major roads to direct drainage to an existing development retention pond.

### B. Vegetation

1) Currently, the site has no substantial vegetation worth retaining. The site has been stripped in preparation for development.

### C. Site Relationship

1) The building is situated on a corner lot and will face away from Chesterfield Airport Road. The Car Wash will be visable from Chesterfield Airport Road with the Subway Sandwich Shop in the corner of the building off of the major intersection of the two main streets.

### D. Yehicular Circulation

- 1) There is one entry/exit for the site which will be located off of a new road between outlots.
- The site is used mainly for the circulation of cars to and from the gas pumps, the car wash and the A.T.M.
- 3) Delivery vehicles will be able to enter from the mein entrance on the southend of the site and proceed directly to the various loading areas.

### E. Pedestrian Circulation

- 1) The accessible parking spaces will be located directly in front of the building to allow easy access without needing to cross any drive lanes.
- 2) Additional parking will be provided around the perimeter of the site in front of the building.

### 11) Building Structure

### A. Scale and Design

1) The building will be a one-story masonry and stone building with aluminum and glass punched windows. The building will also have an upper EF.I.S. finish with metal parapet cap flashing between stone faced columns.

P.O. Box 230, Chesterfield, MO 63006 Phone: 636-537-9333 | Fax: 636-537-1267 | Website: www.adamschurches.com

### B. Relationship to Adjacent Development

1) This development is on an out lot of the Chesterfield Premium Outlet Mall and as such the "Prairie Style" design elements of the mall have been utilized in the design. Elements include: the Cupula design over the entrance to the "C" store and the Subway, the column design on the corners of the building, the medailions in the EF.I.S. and the Car Wash design.

### C. Materials and Colors

- 1) The exterior of the building will be predominately brick and natural stone, clear insulated glass in aluminum storefront punched window system and an EF.I.S. system with metal flashing on parpets and standing seam metal roof system on the Car Wash and the Cupula's.
- 2) The masonry will have a soldier course as an accent.
- 3) The corner columns shall be a natural stone finish with a metal cap flashing to match the standing seam metal roof on the Cupola's and the Car Wash.
- 4) The standing seam metal roof shall have a copper green patina finish.
- 5) The EF.I.S. shall have a beige finish with brick colored medalions on the front and sides and copper green patina finish in back to match the downspouts.

### III) Landscape Design

- 1) The site will be carefully landscaped with trees and other shurbs/plantings to compliment the scale and reduce the impact of the development on Olive Street Road and Chesterfield Airport Road while maintaining commercial visability.
- A planter/retaining wall will be used to screen the rear entry doors from Chesterfield Airport Road.
- 3) Please refer to the submitted landscape plan for more information.

### IV) Miscellaneous

### A. Signage

1) This is not in for review at this time.

#### B. Lighting

- 1) The site lighting will be oriented toward the building, parking areas and gas pump canopy to avoid affecting adjacent properties while still giving a commercial presence.
- 2) The proposed monument sign will have internal lighting.

### C. Utilities

- 1) All utilities will be installed underground.
- 2) landscaping will be used to screen any exterior electrical transformers.

### D. Storm Water Drainage

- 1) Storm water will be drained from the rooftop of the building with scuppers and downspouts on the main building and gutters and downspouts on the Car Wash and collected in the greater developments retention basin.
- 2) The parking area will be sloped to allow storm water to drain into the swales along the major roads along the perimeter of the site.

### E. Energy Conservation

1) The building shall be constructed to meet energy guidelines that are enforced at the current time.

### F. Screening

- 1) A parapet wall will screen all roof top equipment.
- 2) The trash dumpster will be screened from view by a three-sided structural concrete block wall with brick venneer and a metal cap to match the building

Respectifully submitted by

Adams Architectural Associates



ARCHITECTURAL REVIEW BOARD SUBMISSION

# **GAS MART**

18539-18555 OLIVE STREET ROAD CHESTERFIELD, MISSOURI

### **CORNER VIEW RENDERING**

SCALE NONE APRIL 25, 2014

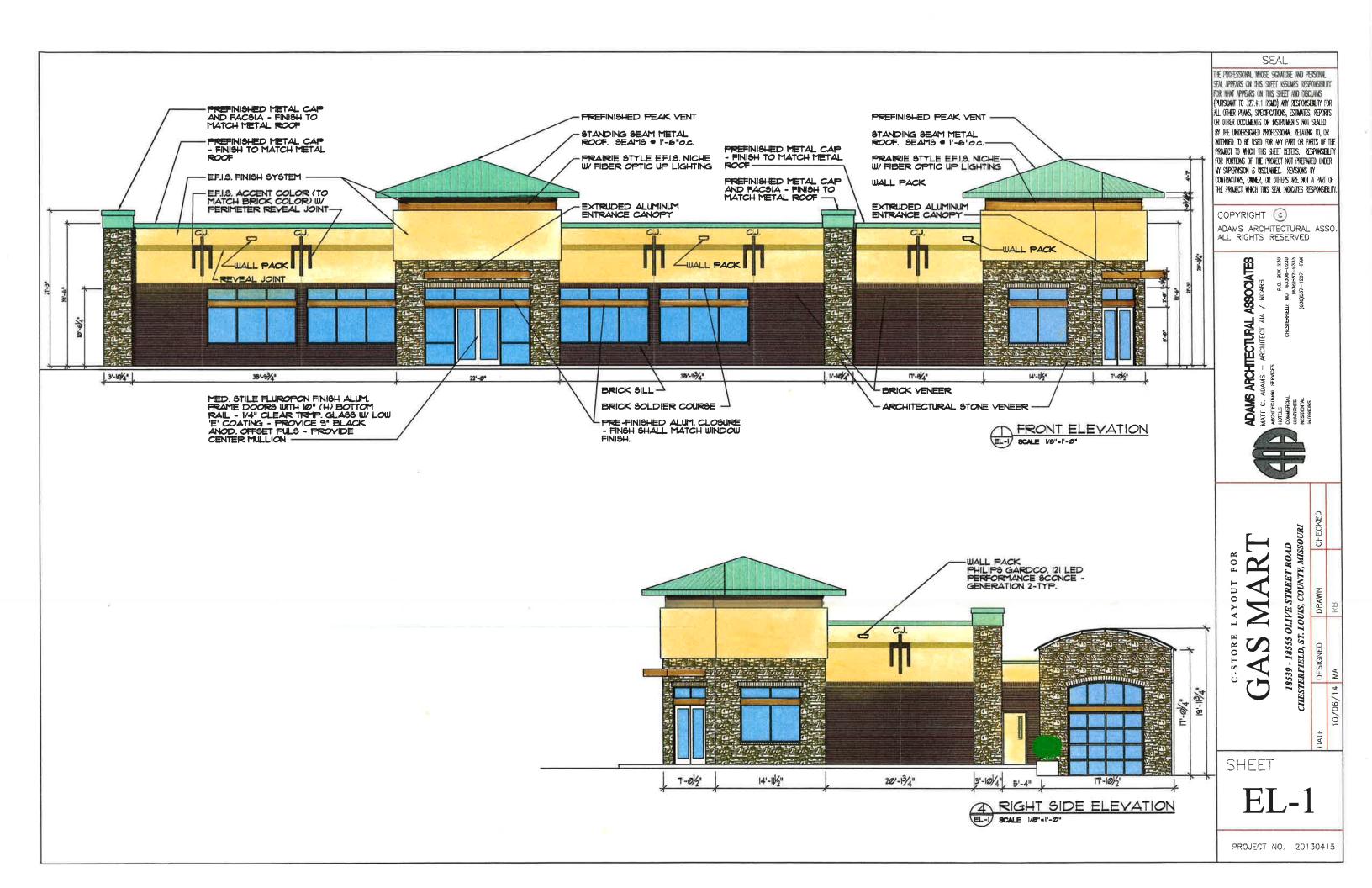
### ADAMS ARCHITECTURAL ASSOCIATES - P.C.

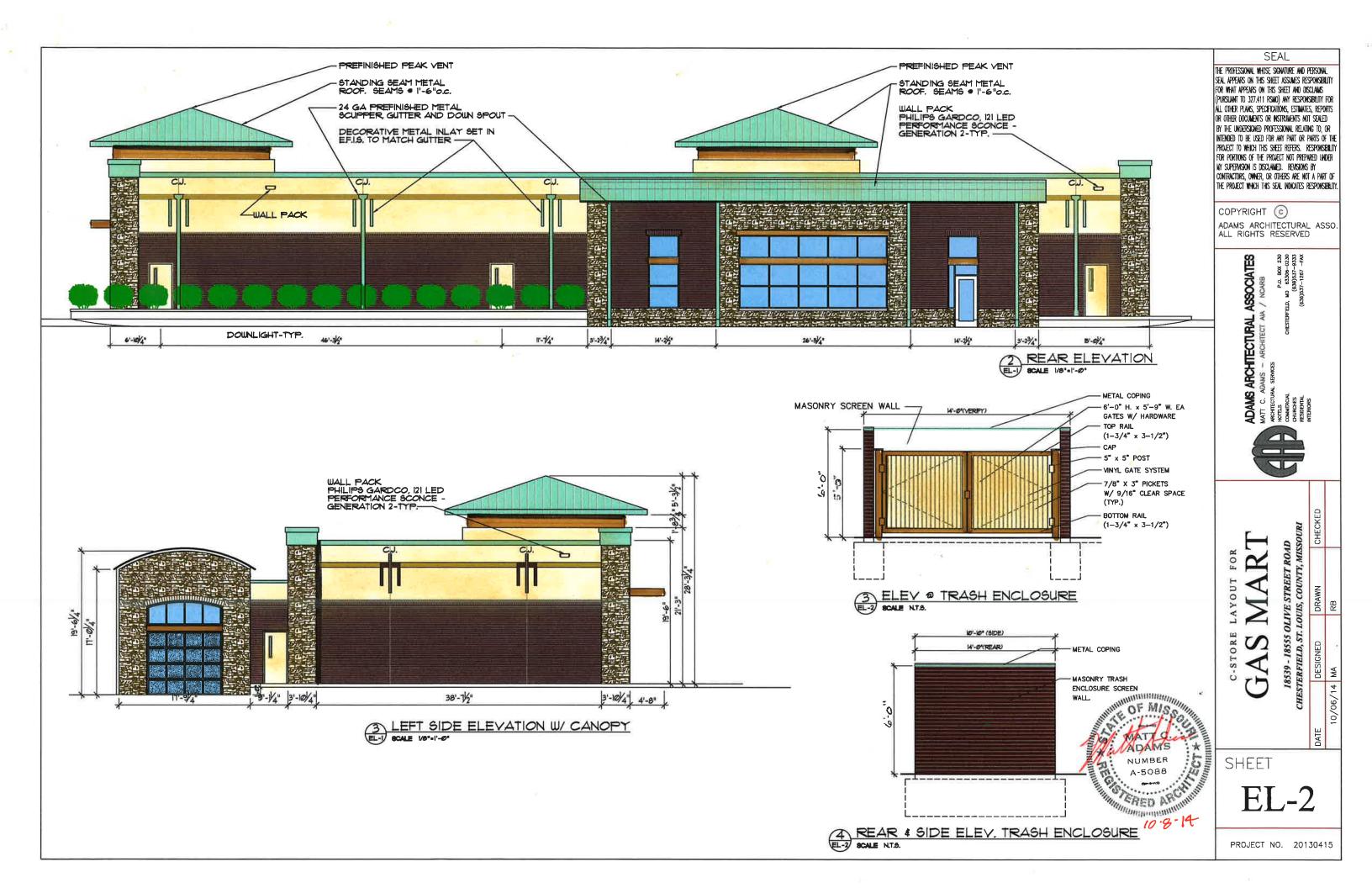
MATT C. ADAMS - ARCHITECT ALA / NCARB

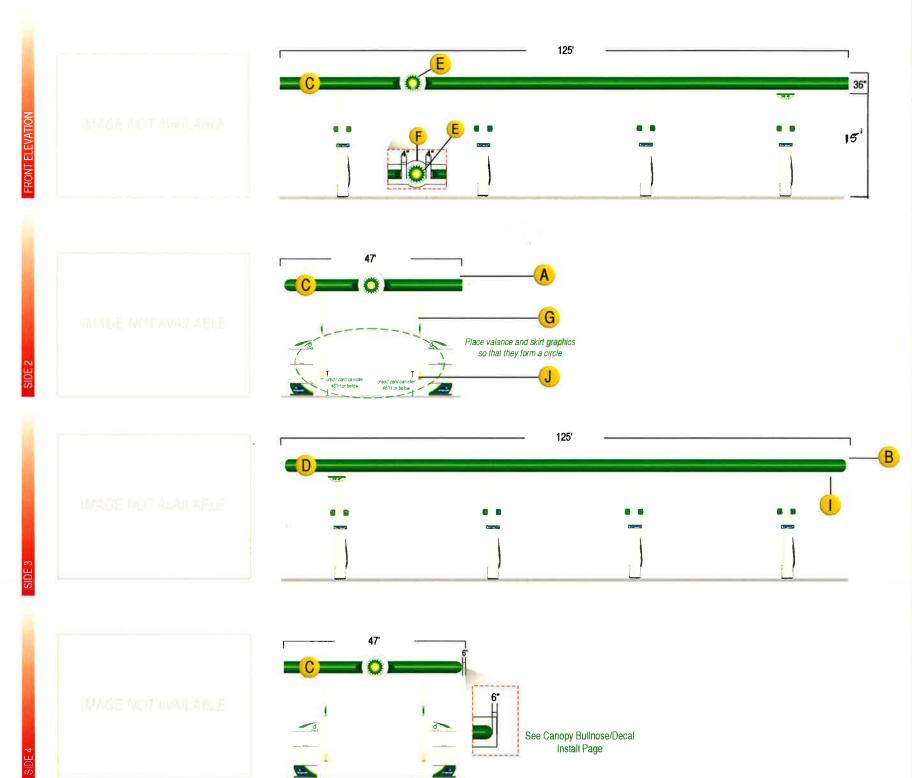
SOFYER

ARCHTECTURAL SERVICES
DESIGN / BUILD
COMMERCIAL
CHURCHES
RESIDENTAL

2.0. 90% 23 CHESTERFELO, VO 9330B-023 (938)537-1257 -73







CANOPY Code Check	Work to be Performed on	CANOPY 1 of 1
Canopy Notes  Aerial Map	See Site Notes page for codes and cont *REMOVE ALL EXISTI A Canopy fascia to be BP of Install New ACM w/p 3D bullnose decal Install New ACM to e (w/out 3D Decal application Paint fascia (only w/lengineer, Michelle Kollen Bergineer, Michelle Bergine	act Info.  NG SIGNAGE*  Pearl (c.09)  ore-applied  Intire canopy  ied)  BP Marketing  napp's approval)  rs to be squared  main (only with  approval)  il & Green LED  installer)  s >24" and <31")  s >231")  ecal ("C" level only)  s >24" and <31")  s >31")  (Qty:_3_)  conly)  s BP Pearl (c.09)  mn wrap. Please  3' above ground  adge of valance.  canopy) to be  ig White  cation Canister
Wallis Petroleum SVB# 9726944 Location: 18403 CONVENIENCE WA, CH	ESTERFIELD, MO 63005	Site Level: B 09.17.2014
BIG RED ROOSTER FLOW 2 Northfield Plaza, Suite 211, Northf Office 847.423.0338	field, IL 60093	ASS.
This is an original concept drawing created to in connection with the project being planned (except registered trademarks) remains the For all questions regarding the scope of the or The Brand Marketing Engineer, Michel	for you by BRRFlow. All or any property of BRRFlow. This draw project, please contact <b>Emily W</b>	part of this design ring is not to scale.

# hing value 15 CA-4 253 COFORM

outstanding performance

### PHILIPS GARDCO, LED SITE & AREA LUMINAIRE, ECOFORM

The Philips Gardco EcoForm combines economy with performance in an LED area luminaire. Capable of delivering up to 20,000 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings.

### Ordering guide





Notes:

Prefix		Mount	ing	Optics	LED Array & LED Wattage	LED Selection	Voltage	Finis	h	Option	S
ECF-DIM  ECF-APD  ECF-MR50 <sup>2</sup> ECF-APD-MRO <sup>2</sup>	EcoForm Standard Luminaire EcoForm with 0-10V Dimming EcoForm with Auto Profile Dimming EcoForm with Motion Response at 50% low Pole mounted senso* EcoForm with Auto Profile Dimming and Motion Response Override Pole mounted senso* EcoForm with Auto Profile Dimming and Motion Response Override Pole mounted senso* EcoForm with Motion Response		Single 2@180 2@90 3@90 3@120 4@90 Wall mount including Surface conduit Rear entry permitted Mast Arm Fitter (requires 2-3/3* O.D. Mast Arm)	<ul><li>2 Type 7</li><li>3 Type 3</li><li>4 Type 4</li><li>5 Type 5</li></ul>	530 mA 55LA-3253' 75LA-4853 100LA-6453 700mA 70LA-3270 105LA-4870 135LA-6470 1050mA 105LA-321A' 160LA-481A 215LA-641A	CW - 5,700K /0 CRI NW - 4,000K 70 CRI WW <sup>3</sup> 3,000K 70 CRI	UNV 120-2//V HVU 347-480V 120 208 240 277 347 480		Bronze Paint Black Paint White Paint Natural Paint Optional Color Specify optional color or RAI, ext OC-LGP or OC-RAI, 7024. Special Color Specify Spe		Tool-Less entry & driver removal hardware Terminal Block Internal Shield Line Fusing Line Fusing for Canada Photocell Receptacle Only Receptacle with Photocell Button Retrofit Arm Mount Kit
ECF-APD-MRI <sup>2,4</sup>	Motion Response at 50% low Luminaire mounted sensor EcoForm with Auto Profile Dirmning with Motion Response Override Luminaire mounted sensor			Den	City of C	EIVED hesterfie	d		Specify Must supply color chip. Requires factory quote.	PTF3 <sup>8</sup> PTF4 <sup>8</sup> RPA <sup>9</sup>	Mount Kit Pole Top Fitter for 2-3/3*-3* Tenon Pole Top Fitter for 3*-3.5* Tenon Pole Top Fitter for 3.5*-4* Tenon Round Pole Adapt for 3* to 3.5* "OD Bird Deterrant field installed only)

1. Available in 120V thru 277V only.

2. Available in 120V or 277V only.

3. Contact factory for lead times on warm white.

4. ECF-MRI requires outboarded senso when used with Terminal Block (TB) option.

5. Not available with Type 5 optics

6. Voltage must be specified. 7. Not available in 480V. B. Not available in 3 @ 120.

9. No adaptor required for 4" round poles RFAs provided with Black Paint standard. 10. Not available with UNV (120-277V).

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**GARDCO** 

### Accessories (Order Separately)

FS1R-100 MR hand held programmer (For use with 'MRI' motion response when field programming is required). If desired, only one is needed per job.

MS-A-120V 120V input - Motion Sensor for MR50 or APD-MRO

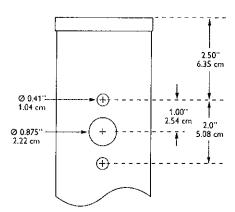
MS-A-277V 277V input - Motion Sensor for MR50 or APD-MRO

### LED Wattage and Lumen Values - Standard EcoForm Luminaire

							Initial L	.umens <sup>12</sup>	
Order Code (standard units)	Array Quantity	Total LEDs	LED Current (mA)	Average System Watts <sup>11</sup>	LED Selection	2 Type 2	3 Type 3	4 Type 4	5 Type 5
55LA-3253	2	32	530	52	NW	5,994 (s)	5,895 (s)	5,823 (s)	5,588 (s)
75LA-4853	3	48	530	77	NW	8,899 (s)	8,753 (s)	8,646 (s)	8,297 (s)
100LA-6453	4	64	530	103	NW	11,896 (s)	11,700	11,558	11,091
70LA-3270	2	32	700	69	NW	7,385 (s)	7,576 (s)	7,293 (s)	7,068 (s)
105LA-4870	3	48	700	104	NW	10,965 (s)	11,249 (s)	10.828 (s)	10,494 (s)
135LA-6470	4	64	700	139	NW	14.657 (s)	15.037	14,475 (s)	14,028
105LA-321A	2	32	1050	107	NW	10,199 (s)	10,458	10,072 (s)	9,767
160LA-481A	3	48	1050	158	NW	15,144 (s)	15,565	14,955 (s)	14,465
215LA-641A	4	64	1050	211	NW	20,243	20,252	19.991	19.880

<sup>11.</sup> System input wattage may vary based on input voltage, by up to +/- 10%, and based on manufacturer forward voltage, by up to +/- 8%.

### **EcoForm Drill Template (Standard Arm Mount)**



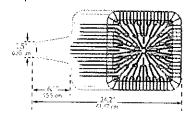
Note: For reference only. Drawing not to scale,

<sup>12.</sup> Lumen values based on photometric tests performed in compliance with IESNA EM-79.

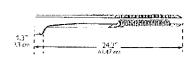
<sup>(</sup>s). Data is scaled based on tests of similar, but not identical, luminaires.

### Dimensions - Standard EcoForm Luminaire

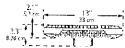
Top View



### Side View



### End View



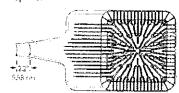
Approximate Luminaire Weight: 1win (2@180) 3/4@90 201bs (9.07 Kg)

### EPA (Ft2/M2)

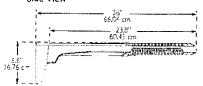
Single	Iwin (2@180)	3/4@90
0.2 / 0.019	0.5 / 0.046	0.5 / 0.046

### Dimensions - EcoForm with Retrofit Arm Mount (RAM)

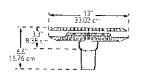
Top View



Side View



### End View



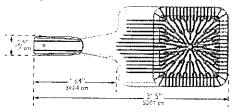
EPA (Ft2/M2)

Single	Twin (2@180)	3/4@90
0.3 / 0.028	0.6 / 0.056	0.7 / 0.065

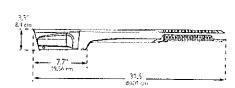
Approximate Luminaire Weight: 21 Lbs (9.53 Kg)

### Dimensions - EcoForm with Mast Arm Fitter (MA)

Top View



Side View



End View



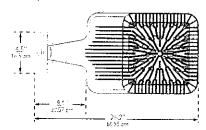
EPA (Ft<sup>1</sup>/M<sup>2</sup>)

Single
0.51 / 0.047

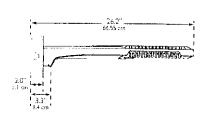
Approximate Luminaire Weight: 21.5 Ebs (9.77 Kg)

### Dimensions - EcoForm with Wall Mount (WS)

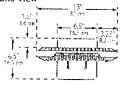
Top View



Side View



End View



Approximate Luminaire Weight: 23.36 Lbs (10.6 Kg)

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### **Luminaire Configuration Information**

#### **ECF**

Philips Gardco EcoForm LED standard luminaire providing constant wattage and constant light output when power to the luminaire is energized.

#### ECF-DIM

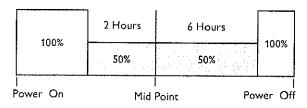
Philips Gardco EcoForm LED luminaire provided with 0-10V dimming for connection to a control system provided by others.

#### **ECF-APD**

Philips Gardco EcoForm LED luminaire with Automatic Profile Dimming. Luminaire is provided with a Philips DynaDimmer module, programmed to go to 50% power, 50% light output two (2) hours prior to hight time mid-point and remain at 50% for six (6) hours after night time mid-point. Mid-point is continuously recalculated by the Philips DynaDimmer module based on the average mid-point of the fast two full night cycles. Short duration cycles, and power interruptions are ignored and do not affect the determination of mid-point.

ECF-APD is available in 120V through 177V input only.

ECF-APD Dimming Profile:



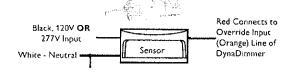
### ECF-MR50

Philips Gardco EcoForm LED luminaire with motion response, providing a 50% power reduction on low and a commensurate reduction in light output. The power and light output reduction is accomplished utilizing the Philips DynaDimmer module, programmed for a constant 50% power. Power supplied by the motion sensor connected to the override line on the DynaDimmer takes the luminaire to high setting, 100% power and light output, when motion is detected. The luminaire remains on high until no motion is detected for the motion sensor duration period, after which the luminaire returns to low. Duration period is factory set at 15 minutes, and is field adjustable from S minutes up to 15 minutes.

ECF-MR50 is available in 120V through 277V input only to the luminaire.

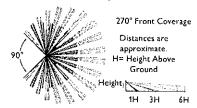
Motion sensors require single voltage 120V or 277V input.

The Area PIR motion sensor is the WattStopper EW-200-120-W (120V Input - MSA-120V) or the WattStopper EW-200-277-W (277V Input - MSA-277V.) One motion sensor per pole is required and is ordered separately. Area sensors require single voltage 120V or 277V Input.



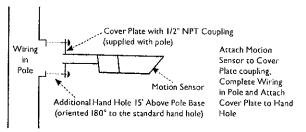
The area motion detector provides coverage equal to up to 6 times the sensor height above ground, 270° from the front-center of the sensor.

Area PIR Motion Sensor Coverage Pattern:



Motion response requires that the pole include an additional hand hole 15 feet above the pole base, normally oriented 180° to the standard hand hole. For Philips Gardco poles, order the pole with the Motion Sensor Mounting (MSM) option which includes the hand hole and a special hand hole cover plate for the sensor with a 1/2" NPT receptace centered on the hand hole cover plate into which the motion sensor mounts. Once the motion sensor is connected to the hand hole cover plate, then wiring connections are completed in the pole. The plate (complete with motion sensor attached and wired) is then mounted to the hand hole. If poles are supplied by others, the customer is responsible for providing suitable mounting accommodations for the motion sensor in the pole.

#### Mounting to a Philips Gardco Pole



### ECF-APD-MRO

Philips Gardco EcoForm LED luminaire with Automatic Profile Dimming, with Motion Response Override. The ECF-APD-MRO combines the benefits of both automatic profile dimming and motion response, using the Philips DynaDimmer module. The luminaire will dim to 50% power, 50% light output, per the dimming profile shown for the ECF-APD. If motion is detected during the time that the luminaire is operating at 50%, the luminaire returns to 100% power and light output. The luminaire remains on high until no motion is detected for the duration period, after which the luminaire returns to low. Duration period is factory set at 15 minutes, and is field adjustable from 5 minutes up to 15 minutes.

#### NOTES:

ECF-APD-MRO is available in 120V through 277V input only to luminaire. The motion sensor requires either 120V or 277V input to the motion sensor.

The ECF-APD-MRO has the same pole requirements and utilizes the same motion sensors as the ECF-MR50. The motion sensor mounts and wires identically as well. The ECF-APD-MRO utilizes the identical dimming profile as shown for the ECF-APD.

By combining the benefits of automatic profile dimming and motion response, the ECF-APD-MRO assures maximum energy savings, and insures that adequate light is present if motion is detected.

All motion sensors utilized consume 0.0 watts in the off state.

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### Luminaire Configuration Information (Continued)

#### **ECF-MRI**

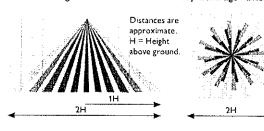
Luminaires with Motion Response include a LED driver and an integral programmable motion sensor. The motion sensor is set to a constant 50%. When motion is detected, the luminaire goes to 100%. The luminaire remains on high until no motion is detected for the motion sensor duration period, after which the luminaire returns to low. Duration period is factory set at 5 minutes. Available with 120V or 277V only.

Luminaires include a passive infrared (PiR) motion sensor, WattStopper<sup>e</sup> FSP-211 equipped with an FSP-L3 lens, capable of detecting motion within 20 feet of the sensor, 180° around the luminaire, when placed at a 20 foot mounting height, or mounted on a walf. Available in 120V or 277V input only. Motion sensor off state power is 0.0 watts.

The approximate motion sensor coverage pattern is as shown below.

#### Side Coverage Pattern

#### Top Coverage Pattern





### ECF-APD- MRI

Luminaires with Automatic Profile Dimming and Motion Response Override combine the benefits of both automatic profile dimming and motion response. APD-MRI luminaires utilize Philips DynaDimmer. The luminaire will dim to 50% power, 50% light output, per the dimming profile shown for APD luminaires (see page 4). If motion is detected during the time that the luminaire is operating at 50%, the luminaire goes to 100% power and light output. The luminaire remains on high until no motion is detected for the duration period, after which the luminaire returns to low. Duration period is factory set at 5 minutes.

APD-MRI luminaires are available with 120V or 277V input voltages only.

APD-MRI luminaires use the identical motion sensor as MRI luminaires. See motion sensor details for ECF-MRI.

### FS1R-100 Wireless Remote Programming Tool

The FS1R-100 Remote Programming Tool accessory permits adjustment of ECF-MRJ and ECF-APD-MRJ sensor settings, including duration and dimming level on low, without the need to connect any wires to the luminaire.

The FS1R-100 Wireless IR Programming Tool is a handheld tool for setup and testing of WattStopper FSP-211. It provides wireless access to the FSP-211 sensors for setup and parameter changes.

The FS1R-100 display shows menus and prompts to lead you through each process. The navigation pad provides a familiar way to navigate through the customization fields.

Within a certain mounting height of the sensor, the FS1R-100 allows modification of the system without requiring ladders or tools simply with a touch of a few buttons.

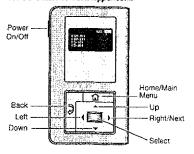
The FS1R-100 IR transceiver allows bi-directional communication between the FSP-211 and the FS1R-100 programming tool. Simple menu screens let you see the current status of the system and make changes. It can change FSP-211 sensor parameters such as high/low mode, sensitivity, time delay, cut off and more. With the FS1R-100 you can also establish and store FSP-211 parameter profiles.

The FS1R-100 operates on three standard 1.5V AAA Alkaline batteries or three rechargeable AAA NiMH batteries. The battery status displays in the upper right corner of the display. Three bars next to BAT= indicates a full battery charge. A warning appears on the display when the battery level falls below a minimum acceptable level. To conserve battery power, the FS1R-100 automatically shuts off 10 minutes after the last key press.



You navigate from one field to another using (up) or (down) arrow keys. The active field is indicated by flashing (alternates between yellow text on black background and black text on yellow background.)

Once active, use the Select button to move to a menu or function within the active field. Value fields are used to adjust parameter settings. They are shown in "less-than/greater-than" symbols: <a href="\square\text{value}">\text{Once active}</a>, change them using (left) and (right) arrow keys. In general the up key increments and the down key decrements a value. Selections wrap-around if you continue to press the key beyond maximum or minimum values. Moving away from the value field overwrites the original value. The Home button takes you to the main menu. The Back button can be thought of as an undo function. It takes you back one screen. Changes that were in process prior to pressing the key are lost More information on the FSIR-100 Remote Programming Tool is available at wattstopper.com.



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### **Specifications**

### General Description

The Philips Gardco EcoForm combines economy with performance in an LED area luminaire. Capable of delivering up to 20,000 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. Integral control systems including motion response are available for further energy savings during off peak hours.

#### Housing

One piece die cast aluminum housing with integral arm and separate, self retained hinged, one piece die cast door frame.

### **IP** Rating

LED light engine rated IP66.

#### Vibration Resistance

EcoForm with Standard Arm carries a 3G vibration rating that conforms to standards set forth by ANSI C136.31. Testing includes vibration to 3G acceleration in three axes, all performed on the same luminaire.

### **Electrical**

Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant. Surge protector standard. 10KA per ANSI/ IEEE C62.41.2.

#### LED Board and Array

32, 48, or 64 LEDs. Color temperatures: 3000K, 4000K, 5700K +/- 250K. Minimum CRI of 70. Aluminum metal clad board. RoHS compliant.

### **Energy Saving Benefits**

System efficacy up to 95 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

### **Motion Sensors**

ECF-MRS0. ECF-APD-MRO, ECF-MRI, ECF-APD-MRI luminaires may be specified for additional energy savings during unoccupied periods. See pages 4-6 for complete details.

### **LED Thermal Management**

The housing design allows the one plece housing to provide excellent thermal management critical to long LED system life.

### Optical Systems

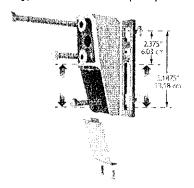
Type 2, 3, 4, and 5 distributions available. Internal Shield option mounts to LED optics and is available with Type 2, 3, and 4 distributions to control backlight.

### Mounting

Standard luminaire arm mounts to 4" round poles. Square pole adapter included with every luminaire. Round Pole Adapter (RPA) required for 3-3.9" poles.

### Retrofit Arm Mount

EcoForm features an innovative retrofit arm kit. When specified with the retrofit arm (RAM) option, EcoForm seamlessly simplifies site conversions to LED by eliminating the need for additional pole drilling on most existing poles. RAM will be boxed separately.



#### Listings

ETL/cETL listed to the UL 1598 standard, suitable for Wet Locations. Suitable for use in ambients from -30° to 40°C (-22° to 104°F). The quality systems of this facility have been registered by UL to the ISO 9001 series standards. All EcoForm luminaires equipped with NW and CW are DesignLights Consortium® qualified.

#### Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BRP), black (BLP), white (WP), and natural aluminum (NP). Consult factory for specs on optional or custom colors.

#### Warranty

EcoForm luminaires feature a 5 year limited warranty. Philips Gardoo LED luminaires with LED arrays feature a 5 year limited warranty covering the LED arrays. LED Drivers also carry a 5 year limited warranty. Motion sensors are covered by warranty for 5 years by the motion sensor manufacturer.

### **LED** Performance:

	PREDICTE	D LUMEN DEPRI	ECIATION DATA'3	
Ambient Temperature °C	Driver mA	Calculated L <sub>70</sub> Hours <sup>13,14</sup>	L <sub>70</sub> Per TM-2114,15	Lumen Maintenance % @ 60,000 hours
Up to 40 °C	Up to 1050 mA	> 350,000 Hours	> 60,000 Hours	97%

Precipited performance derived from LED manufacturer's data and engineering design est mates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.

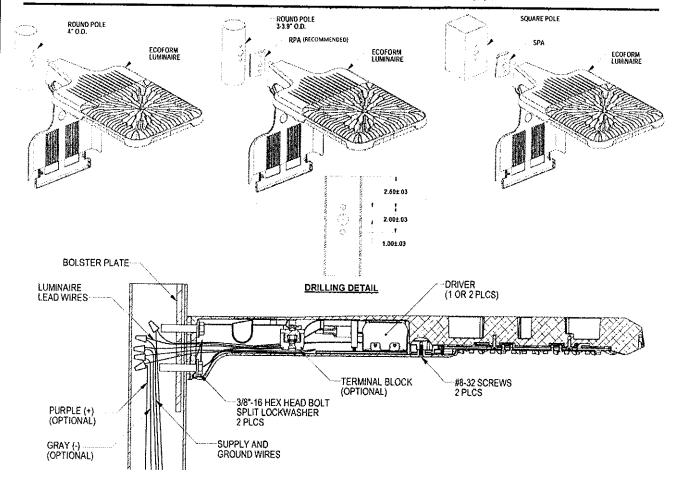
<sup>14.</sup>  $L_{\rm p}$  is the predicted time when LED performance depreciates to 70% of initial lumen output.

<sup>15.</sup> Cate Talest per JISNA I M71-11. Publis left t<sub>or</sub> nours limited to 6 times an until ED sect hours.

# INSTALLATION INSTRUCTIONS

### **ECOFORM LUMINAIRE**

IMPORTANT: READ ALL INSTRUCTIONS BEFORE PERFORMING ANY WORK. BE SURE ALL POWER IS OFF PRIOR TO INSTALLING LUMINAIRES.



NOTE FOR ROUND POLES 3.0 TO 3.9 INCH O.D.: OPTIONAL ROUND POLE ADAPTOR (RPA) CAN BE PURCHASED AND INSTALLED BETWEEN POLE AND LUMINAIRE.

NOTE FOR ROUND POLES GREATER THAN 4 INCH O.D.: INSERT PROVIDED SHIMS BETWEEN POLE AND LUMINAIRE (TOP AND BOTTOM BOLT) ENSURING THERE IS A METAL TO METAL CONTACT BETWEEN POLE AND LUMINAIRE ON LEFT AND RIGHT (LUMINAIRE SHOULD NOT SWAY LEFT TO RIGHT WHEN BOLTS ARE TIGHTENED).

NOTE FOR SQUARE POLES: USE SQUARE POLE ADAPTOR (STANDARD WITH MOST LUMINAIRES).

- LOCATED ON THE BOTTOM OF THE ARM ASSEMBLY, LOOSEN (2) #8-32 SCREWS. OPEN ARM ASSEMBLY (SCREWS ARE CAPTIVE AND WILL REMAIN ON DOOR).
- INSERT BOLSTER PLATE INSIDE OF POLE (OPTIONALLY USING BLACK PUTTY TO HOLD). INSTALL LOCKWASHER TO THE 3/8-16 HEX HEAD BOLT AND THREAD INTO THE TOP MOUNTING HOLE.
- THREAD 3/8-16 HEX HEAD BOLT WITH LOCKWASHER INTO THE BOTTOM TAPPED HOLE IN THE BOLSTER PLATE.
   TIGHTEN THE TWO MOUNTING BOLTS TO 18 FT-LB.
- 4. CONNECT SUPPLY AND GROUND WIRES TO LUMINAIRE LEAD WIRES. IF DIMMING OPTION WAS PURCHASED, THEN CONNECT GRAY(-) AND PURPLE(+) WIRES THAT ARE DEDICATED TO THE 0-10V LEADS COMING FROM DRIVER. MAKE WIRE CONNECTIONS PER NEC OR APPLICABLE LOCAL CODES.
- SECURE THE SUPPLY WIRES WITH CABLE TIE, (STRAIN RELIEF), IN THE ARM.
- 6. CLOSE ARM DOOR AND SECURE WITH THE TWO CAPTIVE #8-32 SCREWS.
- 7. ENERGIZE LUMINAIRE TO TEST INSTALLATION.

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443561200740 Rev. C Page 1 of 4 **PHILIPS** 

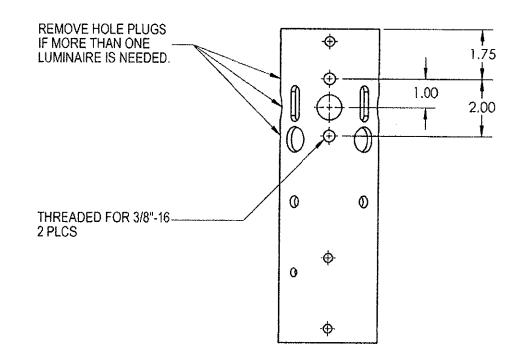
## INSTALLATION INSTRUCTIONS

ECOFORM LUMINAIRE MOUNTED ON PTF2 (3-1/2" O.D.), PTF3 (4-1/2" O.D.), OR PTF4 (5" O.D.) POLE TOP FITTER

IMPORTANT: READ ALL INSTRUCTIONS BEFORE PERFORMING ANY WORK. BE SURE ALL POWER IS OFF PRIOR TO INSTALLING LUMINAIRES.

- LOCATED ON THE BOTTOM OF THE ARM ASSEMBLY, LOOSEN (2) #8-32 SCREWS USING PHILLIPS HEAD SCREWDRIVER.
   OPEN ARM ASSEMBLY (SCREWS ARE CAPTIVE AND WILL REMAIN ON DOOR).
- ATTACH LUMINAIRE/ARM ASSEMBLY TO POLE TOP FITTER BY LINING UP THE THREADED HOLE ON POLE TOP FITTER
  TO BOTTOM HOLE ON ARM.
- THREAD THE BOTTOM 3/8" BOLT AND LOCK WASHER INTO THE LOWER TAPPED HOLE OF THE POLE TOP FITTER FROM INSIDE OF ARM ASSEMBLY AND TIGHTEN.
   TIGHTEN THE TWO MOUNTING BOLTS TO 18 FT-LB.
- 4. NUT INSIDE FITTER, THEN HOLD. THREAD THE TOP 3/8" BOLT AND LOCK WASHER THROUGH POLE TOP FITTER FROM INSIDE OF ARM ASSEMBLY AND TIGHTEN. ENSURE PRIOR TO TIGHTENING MOUNTING BOLTS THAT THERE IS METAL TO METAL CONTACT BETWEEN POLE TOP
- FITTER AND LUMINAIRE (LUMINAIRE SHOULD NOT SWAY LEFT TO RIGHT WHEN BOLTS ARE TIGHTENED).

  5. APPLY SUITABLE WEATHERPROOF SEALANT AROUND (HORIZONTAL, TOP, VERTICAL, LEFT, RIGHT) OF ARM WHERE IT CONTACTS POLE TO INHIBIT WATER ENTRY.
- 6. INSTALL THE POLE TOP FITTER/LUMINAIRE ONTO THE TENON. TOP OF THE TENON MUST SEAT AGAINST THE FITTER STOP. LEVEL AND SECURE WITH (8) 3/8" SOCKET SET SCREWS.
- 7. ROUTE SUPPLY AND GROUND WIRES OVER THE STRAIN RELIEF ROD. TIE OFF WITH TAPE OR WIRE TIE AS SHOWN
- CONNECT FIELD SUPPLY AND GROUND WIRES TO LUMINIAIRE LEADS. MAKE WIRE CONNECTIONS PER NEC OR APPLICABLE LOCAL CODES.
- 9. INSTALL POLE TOP FITTER CAP AND SECURE WITH (2) #10-32 PHILLIPS PAN HEAD SCREWS.
- 10. CLOSE ARM ASSEMBLY AND SECURE WITH THE (2) 8-32 SCREWS.
- 11. ENERGIZE LUMINAIRE TO TEST INSTALLATION.



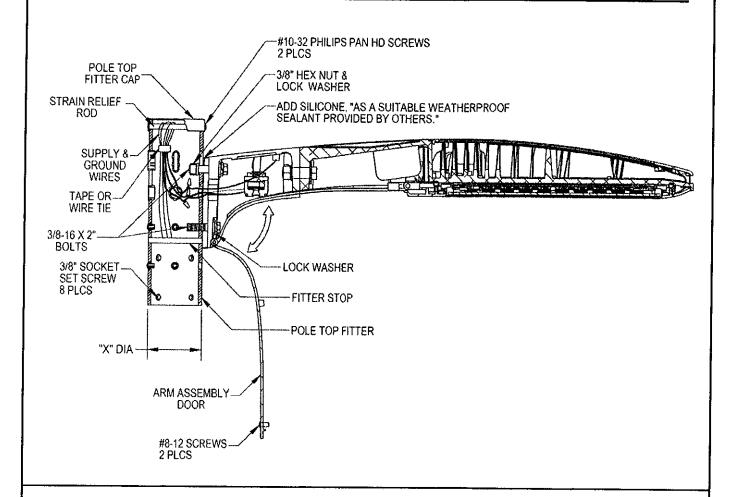
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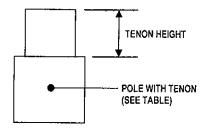
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# INSTALLATION INSTRUCTIONS

ECOFORM LUMINAIRE MOUNTED ON PTF2 (3-1/2" O.D.), PTF3 (4-1/2" O.D.), OR PTF4 (5" O.D.) POLE TOP FITTER

IMPORTANT: READ ALL INSTRUCTIONS BEFORE PERFORMING ANY WORK. BE SURE ALL POWER IS OFF PRIOR TO INSTALLING LUMINAIRES.





FITTER TYPE	"X" DIA. (Ø)	USED ON TENON SIZE
PTF2	3-1/2"	2-3/8" TO 2-7/8" O.D. X 4" HIGH
PTF3	4-1/2"	3" TO 3-1/2" O.D. X 6" HIGH
PTF4	5"	3-1/2" TO 4" O.D. X 6" HIGH

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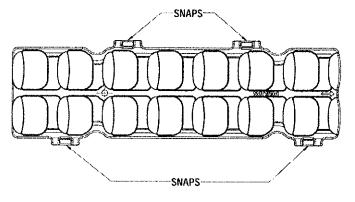
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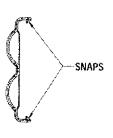
443561200740 Rev. C Page 3 of 4

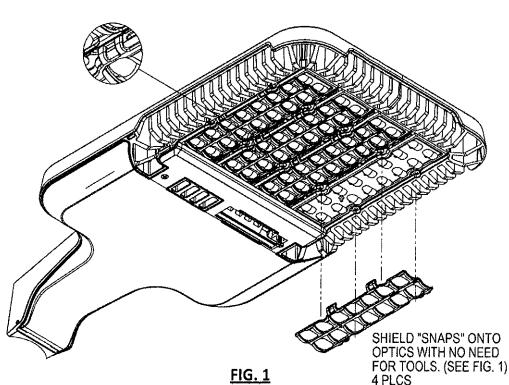
# INSTALLATION INSTRUCTIONS ECOFORM FIELD INTERNAL SHIELD

IMPORTANT: READ ALL INSTRUCTIONS BEFORE PERFORMING ANY WORK. BE SURE ALL POWER IS OFF PRIOR TO INSTALLING LUMINAIRES.

IF INTERNAL SHIELDING PURCHASED WITH LUMINAIRE, THEN SEE FIGURE 1 FOR ORIENTATION AND INSTALLATION.





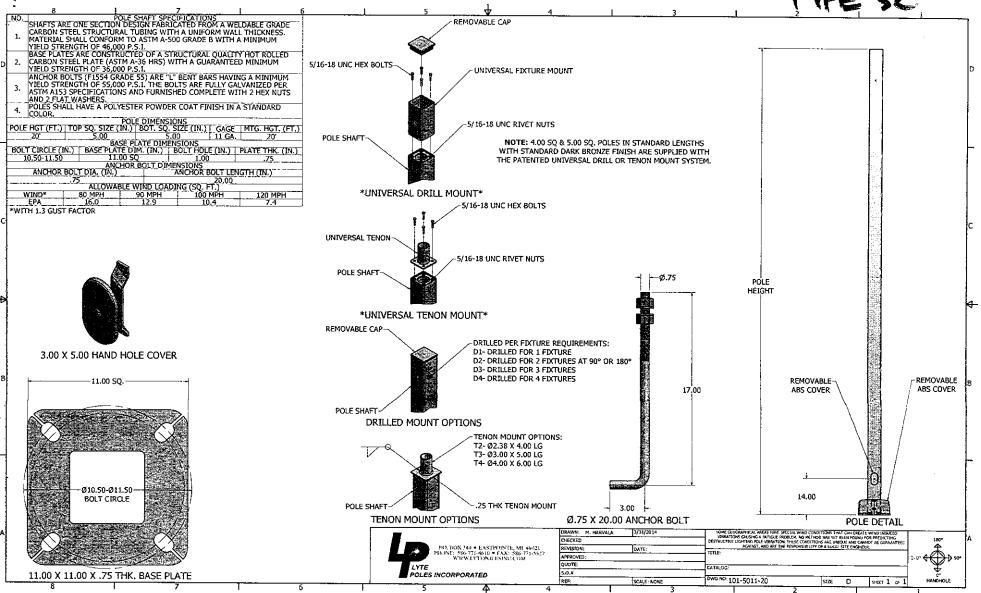




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443561200740 Rev. C Page 4 of 4 Philips Lighting Company 200 Franklin Square Drive Somerset, NJ 08873 Phone: 855-486-2216 Philips Lighting Company 281 Hillmount Road Markham ON, Canada L6C 2S3 Phone: 855-486-2216

20' POLE



Job: GASMART
Type:
Notes.

TYPE 122

# Ecolume and Decolume

### **Emco**

Page I of 3

### Arm Mount - Vertical Lamp Flat Glass Lens

The Ecolume ECA and Decolume DECA are rectilinear area luminaires. Utilizing a flat glass lens, the vertical lamp full-cutoff segmented optical systems provide required light levels, even illumination, wide pole spacings and excellent glare control. The housing is die formed and the door frame is extruded aluminum. Luminaires are completely sealed and gasketed, preventing intrusion from moisture, insects and contaminants.

Flat glass lens luminaires provide full cutoff performance.

Ecolume

Decolume

PREFIX	MOUNTING	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS
<u></u>		-		-	-	
Enter the order code into are valid. Refer to notes	the appropriate box above below for exclusions and lin	Note: Gardco reserves the nitations. For questions or cor	right to refuse a configure	ation. Not all combinations a	nd configurations	

#### **PREFIX**

Arm Mount	<u>Ecolume</u>	Decolume	
to Pole* ECA23 DECA23 23" Square Luminaire	ECA23	DECA23	23" Square Luminaire
to Pole* Arm mounting on n		ECA23	ECA23 DECA23

### MOUNTING

I Single Pole Mount
Twin Pole Mount at 180°

2@90° Twin Pole Mount at 90°

3 3-way Pole Mount at 90°

3-way Pole Mount at 120°

4-way Pole Mount

### DISTRIBUTION

### Vertical Lamp

3VFC

Type III Vertical Lamp - Full Cutoff

FVFC QVFC

79215-54/0612

Type IV Forward Throw Vertical Lamp - Full Cutoff

Type V Vertical Lamp - Full Cutoff

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Department of Public Services

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### **Ecolume and Decolume**

Page 2 of 3

### Arm Mount - Vertical Lamp Flat Glass Lens

### WATTAGE Featuring the MasterColor Elite Electronic HID System

	2	3"
Pulse Start MH Magnetic Ballast	400Р5МН © 450Р5МН © 750РSМН	775PSMH 875PSMH 1000PSMH
MasterCalar Elite Electronic System	210MCE-3K <sup>2</sup>	315MCE-3K <sup>1</sup> © 315MCE-4K <sup>1</sup> ®
Standard MH Magnetic Ballast**	400MH**	1000MH <sup>1</sup>
High Pressure Sodium Mognetic Ballast	400HPS	750HPS
**175MH, 250MH and 4	00MH not avoilable for sale in ti	he United States.

### **OPTIONS**

PTF3

PTF4

AP7.8

CR

California Title 20, effective 1/1/2010.

HS <sup>3</sup>	Internal House Side Shield	QS <sup>3</sup>	Quartz Standby
F	Fusing	QST'	Quartz Standby -
LF'	In-Pole/In-Line Fusing	-	Timed Delay
PCT <sup>5</sup>	Locking Type Photocontrol	Q924 <sup>3</sup>	Quartz Emergency
	Receptacle with Photocontrol	QT924°	Quartz Emergency -
PCR	Locking Type Photocontrol		Timed Delay
	Receptacle	GMR <sup>∞</sup>	Provision for Gardço
PCB <sup>5</sup>	Button Photocontrol		Motion Response
MF <sup>6,6</sup>	Mast Arm Fitter		•

Wattages marked with circle "E" meet federal energy efficiency standards

applicable to 150 watt through 500 watt metal halide luminaires only.

VOLTAGE	<u> FINIS</u>	<u> </u>
120	BRP	Bronze Paint
208 240	BLP	Black Paint
277	WP	White Paint
347 480	NP	Natural Aluminum Paint
QUAD 120/208/240/277 factory tied to 277V.	oc	Optional Color Paint Specify Optional Color or RAL ex: OC-LGP or OC-RAL7024.
<b>200-277</b> MCE types only.	sc	Special Paint Specify: Must supply color chip.

- 1. 1000MH requires BT-37 or E-37 lamp.
- MCE types available in 120V, 200-277V, 347V, or 480V.
   120V, 347V and 480V require and include on auxiliary transformer.
   For MCE types, "-3K" indicates a 3,000°K lamp, "-4K" indicates a 4,000°K lamp.
- 3. Supplied standard for FVFC.
- 4. Kit includes In-Line Fuses.
- Not Available with 480V.
- 6. Requires 2 3/8" O.D. Mast Arm.
- 7. Only available with single and twin luminares @ 180°.
- 8. Square pole mount only.
- 9. See QS/Q924 Table.
- Available only with 400PSMH or 400HPS wattages. Includes dual-level capacitor and wiring to connect to Gardco Motion Response System.
- 11. Available with Decolume only. Specify color, Contact factory for availability.

HID Lamp Watts	Maximum Quartz Lamp Watts
175 watts or less	100 Watts
Above 175 watts up to 400 wates	150 Watts

### **DIMENSIONS AND EPA**

Colored Reveals

Pole Top Fitter 3 - 31/2" X 6"

Pole Top Fitter 3 72 - 4" X 6"

Adjustable Knuckle - Square Pole Mount

ECOLUME A DECOLUME	EPA (Effec	Single		
ECOLUME / DECOLUME	Single	Twin 180°	Quad	Luminaire Weight (lbs / kg)
Arm Mount 23" units	3.6 / .335	7.3 / .679	8.8 / .818	90 / 40.83

ARM MOUN	IT
	23"
A	23" sq 58.42cm
В	14.5" 36.83cm
C Arm Length	12" 30.48cm
<b>D</b> Arm Height	8" 20.32cm

A A B B

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### Emco

### **Ecolume and Decolume**

Page 3 of 3

### Arm Mount - Vertical Lamp Flat Glass Lens

### **SPECIFICATIONS**

**GENERAL DESCRIPTION:** Each Emco Ecolume and Decolume is a full cutoff luminaire for high intensity discharge lamps. Internal components are totally enclosed, rain-tight, dust-tight, and corrosion resistant. No venting of the optical system or electrical components is required or permitted. Lamping requires no lifting or hinging of the luminaire housing, disturbing wiring or exposing uninsulated live parts.

**HOUSING:** The housing wrapper is one-piece dieformed aluminum. The housing has an integral reinforcing spine and no welded corners. Silicone seals provide a weathertight seal at all points of material transition.

**LENS:** A mitered, extruded anodized aluminum door frame retains the optically clear, heat and impact resistant tempered flat glass in a sealed manner using hollow section, high compliance, memory retentive extruded silicone rubber. A single flush 1/4 turn captive fastener permits easy access to the luminaire.

**OPTICAL SYSTEMS:** The segmented reflector system consists of two levels of highly specular aluminum facets precisely aligned to achieve specified photometric distributions. The entire optical system is field rotatable in 90° increments. The mogul base socket is glazed porcelain with a nickel plated screw shell.

**ELECTRICAL:** All electrical components are UL recognized and factory tested. Electronic and magnetic HID ballasts are high power factor. Magnetic HID ballasts are the separate component type. The ballast is mounted on a unitized tray and secured within the luminaire, above the reflector system. Electronic and magnetic HID ballasts are capable of providing reliable lamp starting down to -20°F / -29°C.

Luminaires provided with the MasterColor® Elite high performance ceramic metal halide electronic system include high power factor electronic ballasts, designed specifically for the system selected.

**FINISH:** Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally-cured polyester powder finish after fabrication.

LABELS: All Juminaires bear UL or CUL (where applicable) Wet Location labels

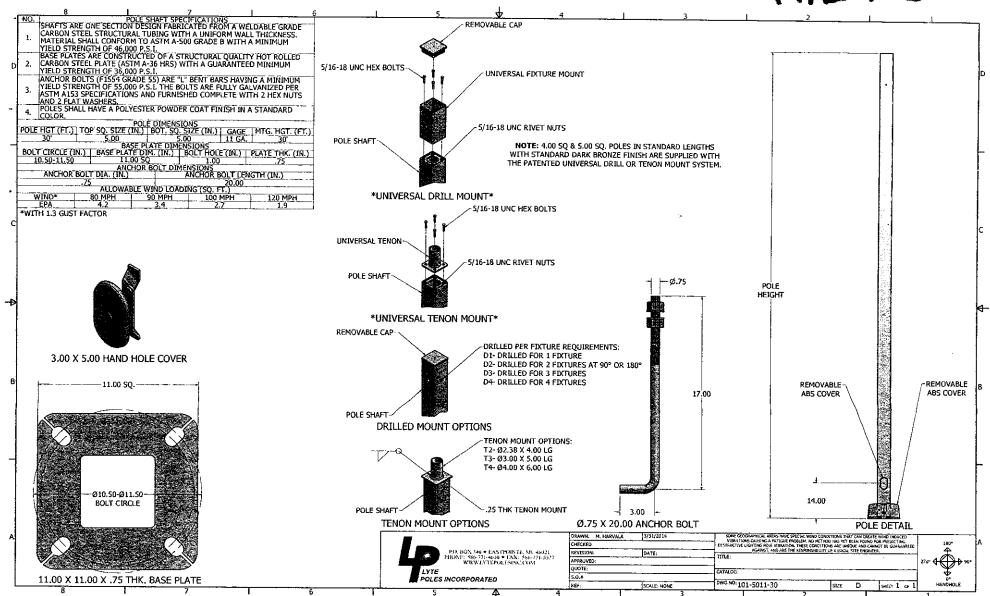
WARRANTY: Luminaires in the Emco product family feature a 1 year limited warranty. See Warranty Information on www.sitelighting.com for complete details and exclusions.

FULL CUTOFF PERFORMANCE: Full cutoff performance means a luminaire distribution where zero candela intensity occurs at an angle at or above 90° above nadir. Additionally, the candela per 1000 lamp lumens does not numerically exceed 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

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## 30' POLE TYPE RZ



Job: GASMOUT, CHESTELFILE

Туре:

TYPE WA

121-4-75LA-NW



09-17-14P03:48 REF:

120 LINE LED

### Page 1 of 4

### 121 LED Performance Sconce - Generation 2

The Philips Gardco 121 LED Performance Sconce provides an energy efficient, architecturally pleasing solution for wall mount applications. The sloped surface ribs of the die cast aluminum housing create a distinctly unique aesthetic element, and perform important functions in the Philips Gardco thermal management system. 121 Generation 2 luminaires feature high performance Class 1 LED systems. The high performance LED optical systems produce full cutoff performance, minimizing glare and light trespass. Philips Gardco's LED technology provides maximized light output and maximum energy savings.



PREFIX	OPTICAL SYSTEM	LED WATTAGE	LED SELECTION	VOLTAGE	FINISH	OPTIONS
			-			
Enter the order code in Refer to notes below for	to the appropriate box above. No r exclusions and limitations. For qu	ote: Philips Gardco reserves uestions or concerns, please	the right to refuse a configue consult the factory.	ration. Not all combinations	and configurations are valid.	

### **PREFIX**

121 LED Performance Sconce - Constant Wattage / Full Light Output

**121-MR** 121 LED Performance Sconce - Motion Response **121-DIM** 121 LED Performance Sconce - 0 - 10V Dimming

121-APD 121 LED Performance Sconce - Automatic Profile Dimming

121-DCC 121 LED Performance Sconce - Dual Circuit Control

### OPTICAL SYSTEM

Type 2
Type 3
Type 4

4 Type 4
MT Medium Throw

All optical systems de supplied with preligh class lens standard A Diffuse Lens (DL) option is available See OPTIONS of Page 20 STOFFIELD

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Department of Public Services

### **LED WATTAGE AND LUMEN VALUES**

		Average	LED	LED Owner	LED -		Luminaire Initial	Absolute Lumens <sup>2</sup>	
	LED Quantity - Single LED Array	Selection	TYPE 2	TYPE 3	TYPE 4	мт			
18LA	18	350	16	NW	1,298 (s)	1,324 (s)	1,248 (s)	1,568 (s)	
26LA	26	530	16	NW	1,817 (s)	1,849 (s)	1,745 (s)	2,178 (s)	
35LA-700	36	700	16	NW	2,373 (s)	2,401 (s)	2,273 (s)	<b>2,792</b> (s)	
35LA-350	35	350	32	NW	2,596	2,647	2,496	3,135	
50LA	52	530	32	NW	3,634	3,698	3,490	4,356	
75LA	72	700	32	NW	4,745	4,801	4,546	5,584	

Ordering Code Average System Watts¹	Ordering		LED Current	LED Qua Dual LED		LED		Luminaire Initial	Absolute Lumens <sup>3</sup>	
	Watts <sup>1</sup>	(mA)	Per LED Array	Total LEDs	Selection	TYPE 2	TYPE 3	TYPE 4	мт	
35LA-2	35	350	16	32	NW	2,596	2,647	2,496	3,135	
50LA-2	52	530	16	32	NW	3,634	3,698	3.490	4,356	
75LA-2	72	700	16	32	NW	4,745	4,801	4,546	5,584	

Wattage may vary by +I- 8% due to LED manufacturer forward volt specification and ambient temperature. Wattage shown is average for 120V through 277V input
Actual wattage may vary by an additional +I- 10% due to actual input voltage.

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<sup>2.</sup> Values shown are for luminaires without the DL option. Tests are in process for configurations not shown. "(s)" following the value indicates that values are scaled from tests on similar, but not identical luminaire configurations. Contact Gardoo applications@ philips.com if any approximate estimates are required for design purposes. Lumen values based on tests performed in compliance with IESNA LM-79



### 120 LINE LED

### Page 2 of 4

### 121 LED Performance Sconce - Generation 2

### **LED SELECTION**

#### cw Cool White - 5700°K - 75 CRI Nominal

NW Neutral White - 4000°K - 70 CRI Nominal ww Warm White - 3000°K - 80 CRI Nominal

### **VOLTAGE**

UNIV Accepts 120V through 277V input, 50hz to 60hz.

347 347V - Requires Extended Back Box, which is provided standard.

Requires and includes auxilliary transformer mounted in Extended

Back Box.

### **FINISH**

### **OPTIONS**

	<u> </u>
BRP	Bronze Paint
BLP	Black Paint
WP	White Paint
NP	Natural Aluminum Paint
BGP	Beige Paint
oc	Optional Color Paint Specify Optional Color or RAL ex: OC-LGP or OC-RAL7024.
sc	Special Paint

Specify Must supply color chip.

With Extended Back Box (EBB) Option

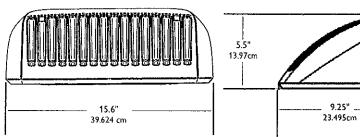
Fusing (Provide specific inpout voltage) Solite® Diffusing Glass Lens (Reduces performance significantly.) DL **PCB** Button Type Photocontrol (Provide specific inpout voltage) WS Wall Mounted Box for Surface Conduit (Rear entry permitted.) EBB Extended Back Box (Provided standard with 347V luminaires.) SPR<sup>3</sup>

Surge Protection 120V thru 277V Input meeting ANSI C62.41.2

Surge Protection 347V thru 480V Input meeting ANSI C62.41. 2

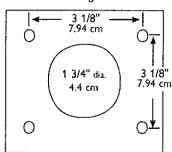
3. Not available with Fusing (F) option. DCC luminaires require one (1) surge protector per circuit.

### **DIMENSIONS**



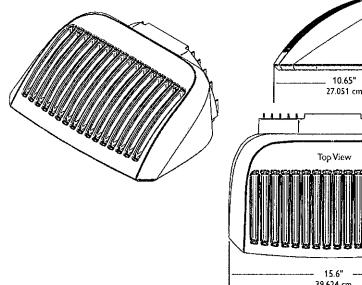
SPRH3

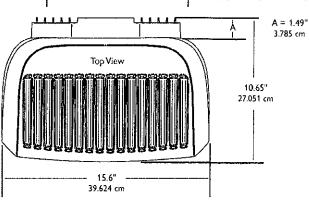
### Mounting Plate



Mounting Bolt Pattern

Note: Mounting plate center is located in the center of the luminaire width and 2.38" (6.03cm) above the luminaire bottom (lens down position). Splices must be made in the J-box (by others). Mounting plate must be secured by max. 5/16" (.79cm) diameter bolts (by others) structurally to the wall.





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Page 3 of 4

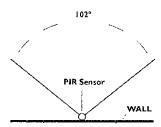
### 121 LED Performance Sconce - Generation 2

### L'UMINAIRE CONFIGURATION INFORMATION

121-CWL: 121 LED sconce providing constant wattage and constant light output when power to the luminaire is energized.

121-MR: 121 LED sconce including a passive infrared (PIR) motion sensor capable of detecting motion within 30 feet of the 121 LED Sconce. The PIR sensor is mounted in the center of the luminaire, near the wall edge of the door frame, approximately 1.5" forward from the wall, and is less than .75" in diameter. When no motion is detected for 5 minutes, the Motion Response system reduces the wattage by 75%, to 25% of the normal constant wattage, reducing the light level accordingly. When motion is detected by the PIR, the luminaire returns to full wattage and full light output. The PIR sensor is capable of motion detection across a total angle of 102° from the center of the sensor (51° to either side of center.) The sensor may be adjusted directionally to maximize detection of motion to one side of the luminaire if desired based on site traffic patterns. PIR sensor provided is the Panasonic EKMB1203112. If the PIR sensor fails, the luminaire will operate in default-high mode. Motion sensors utilized consume 0.0 watts in the off state.

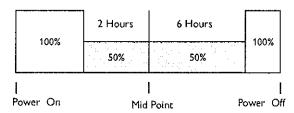
### Sensor Coverage Pattern



121-DIM: 121 LED sconce provided with 0 -10V dimming for connection to a control system provided by others.

121-APD: Philips Gardco performance LED sconces with Automatic Profile Dimming are provided with the Philips DynaDimmer included. The DynaDimmer is factory programmed to go to 50% power, 50% light output two (2) hours prior to night time mid-point and remain at 50% for six (6) hours after night time mid-point. Mid-point is continuously calculated by the DynaDimmer based on the average mid-point of the last two full night cycles. Short duration cycles, and power interruptions are ignored and do not affect the determination of mid-point.

### **APD Dimming Profile**



121-DCC: 121 LED sconce provided with dual circuiting, and dual arrays, permitting separate switching of each led array. Available in LED wattages shown on Page 1 only.

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GARDCO



Page 4 of 4

### 121 LED Performance Sconce - Generation 2

### **SPECIFICATIONS**

**GENERAL:** Each Philips Gardco 121 luminaire is a wall mounted full cutoff luminaire with integrated lensed LEDs mounted in a fixed array. Internal components are totally enclosed in a rain-tight, dust-tight and corrosion resistant housing. The housing, back plate and door frame are die cast aluminum. A choice of four (4) optical systems is available. Luminaires are suitable for wet locations, mounted in the normal downlight position.

HOUSING: The single-piece stylized housing is die cast aluminum. A memory retentive gasket seals the housing with the door frame to exclude moisture, dust, insects and pollutants from the luminaire. A black, die cast ribbed backplate is included.

IP RATING: Luminaires are rated IP66.

**DOOR FRAME:** A single-piece die cast aluminum door frame integrates to the housing form. The door frame is hinged closed and secured to the housing with two (2) captive stainless steel fasteners.

**OPTICAL SYSTEMS:** Philips Gardco 121 Generation 2 LED luminaires utilize lensed LED arrays set to achieve IES Type II, Type III, and Type IV distributions, as well as a Medium Throw distribution. Individual LED arrays are replaceable. Luminaires feature high performance Class 1 LED systems. Luminaires are supplied standard with a clear glass lens.

**ELECTRICAL:** Luminaires are equipped with an LED driver that accepts 120V through 277V, 50hz to 60hz, input. Driver output is either 350 mA, 530 mA or 700 mA, based on the LED wattage selected. Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600 VAC at 302°F/150°C or higher, Plug disconnects are listed by UL for use at 600 VAC, 15A or higher. Power factor is not less than 90%. Luminaires consume 0.0 watts in the off state.

**LED THERMAL MANAGEMENT:** The 121 design provides deep integral thermal radiation fins cast into the upper housing to assist in the thermal management so critical to long LED system life. Metallic screens are placed over the fins and integrated to the housing to prevent the buildup of dust, dirt and contaminants, while permitting required air flow for cooling

#### LED PERFORMANCE:

PREDICTED LUMEN DEPRECIATION DATA					
Ambient Temperature °C	Driver mA	L <sub>70</sub> Hours <sup>5</sup>			
	350 mA	180,000			
25 °C	530 mA	150,000			
	700 mA	120,000			
	350 mA	170,000			
40 °C	530 mA	130,000			
	700 mA	100,000			

4. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.

 $5.1_{10}$  is the predicted time when LED performance depreciates to 70% of initial lumen output.

FINISH: Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BRP), black (BLP), white (WP), natural aluminum (NP) and beige (BGP). Consult factory for specifications on custom colors.

LABELS: All luminaires bear either UL or CUL (where applicable) Wet Location labels.

WARRANTY: Philips Gardoo luminaires feature a 5 year limited warranty. Philips Gardoo LED luminaires with LED arrays feature a 5 year limited warranty covering the LED arrays and LED drivers. See Warranty Information on www.sitelighting.com for complete details and exclusions.

FULL CUTOFF PERFORMANCE: Full cutoff performance means a luminaire distribution where zero candela intensity occurs at an angle at or above 90° above nadir. Additionally, the candela per 1000 lamp lumens does not numerically exceed 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

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G200-037/1012

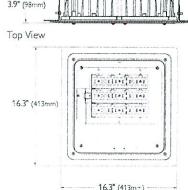


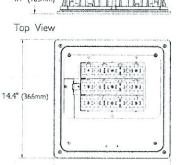
Gas Station Under Canopy

### RECEIVED City of Chesterfield

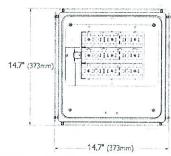
SEP 1 7 2014

Approvals:
Approvals:
Public Services lob: Catalog Number: M<sub>3</sub>L 700 Date: # of LEDs Driver Series Distribution Voltage Mounting Options Finish Accessories Color Overall Dimensions Single Skin (SS) Thru Canopy Mount Surface Mount (SM) Weight: 18.8 lbs 8.5 kgs for reference only Weight: 17.6 lbs 7.9 kgs Side View Double Skin (DS) Front View with EPC option Recessed Mount Weight: 19.8 lbs 8.98 kgs Front View Front View -7.35" (187mm) -Front View 5.8" (149mm) 3.9" (98mm) 3.9" (98mm) distribute anthermore Top View Top View Top View









### Specifications

### Rated System Life (L<sub>70</sub>)

Driver and LED life for all 25°C configurations rated 100,000 hours. Driver and LED Life @ below 40°C:

	32G3	4BG3
Single Skin/Double Skin	100.000	100 600
Surface Mount	85,000	50,000
RK-1 (Option)	80.000	42,000
Single SKin w/ EPC (option)	80.000	50,000

All values are tested to meet LM-79 & LM-80 standards.

### Construction

Integrated die cast aluminum heat management system for maximum heat dissipation and exposure to outside air flow resulting in cooling of electronics and long life. LED's are protected by a tempered flat glass lens sealed with gasket to provide a clean dust tight optical assembly and easy luminaire cleaning. Available with 120V-277V as well as 347V~480V input voltages.

Electronic LED driver, Class I, with Constant Current ensures all LED's are operated consistently and are regulated with proper electrical characteristics over their entire life. The driver features include:THD < 20%, high level of voltage regulation, high power factor > 0.9, and built in thermal protection to prevent system from overheating. Surge

protector standard. The surge protector is in accordance with IFFF / ANSI C62.41.2 guidelines, with a surge current rating of 10,000 amps.

14.4" (366mm)

### LED And Board Array

Aluminum backed printed circuit board, with a choice of 5700K and 4000K color temperatures, with typical 70 CRI for Cool White (CW) and Neutral White (NW). The custom LFD board includes specially designed tracings for efficient heat dissipation; -40°C minimum start temperature. Employs Philips LEDGINE technology & Rebel R LEDs.

A choice of LED optical systems available with symmetrical and asymmetrical medium beam distributions. Shine optics provide an enhanced brightness from a distance to direct visual interest and appeal. IES full-off classification providing night friendly lighting, no glare in driving direction and improved safety for drivers.

'SS' Single Skin (Thru Canopy), 'DS' Double Skin (Recessed), SM' Surface Mount and 'RK1' Retrofit #1 LSI Dakota (2' x 2' Box). The "Dakota" luminaire is a product manufactured by Lighting Services, Inc ("LSI"). For Single Skin mounting configuration, a six foot cord is included.

'RK2-M3L' Retrofit #2 (LSI Scottsdale or similar, must be ordered separately). The "Scottsdale" luminaire is a product manufactured by Lighting Services, Inc ("LSI"). 'RK3-M3L' Retrofit #3 (LSI Richmond or similar, must be

ordered separately). The "Richmond" luminaire is a product manufactured by Lighting Services, Inc ("LSI").

### Controls & Dimming

Optional Dimming luminaires are equipped with dimming driver to allow light on demand and reduce energy consumption. Dimming leads shall be exiting the luminaire for use with secondary controls.

### Listings

LED luminaire suitable for outdoor single skin or double skin canopy mounting usage; -40°C to 40°C ambient temperature, IP65 Ingress Protection with Single Skin (Thru Canopy) and Surface mounting styles, Mini 300 is listed on the DesignLights Consortium Qualified Products List (OPL).

### Finish

Standard finish is painted smooth white.

### Warranty

5-year limited warranty. See terms and conditions for details,



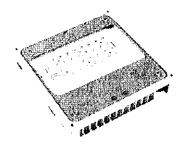
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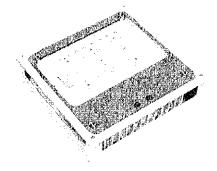




### Gas Station Under Canopy

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Type:	l lob:		
71	•		





MRL-32G3 with EPC option

M3: -48G3 with EPC option.

# of LEDs	Driver	LED Color	Distribution	Voltage	Mounting
32G3 32 LEDGINE Generation 3 (6500 lumens appared)	□ 700 /00 mA driver	CW Cool White (\$700K +/- 250k)	S Symmetrical A Asymmetrical	☐ 120 120 volt ☐ 208 238 volt	SS4-5 Single Skin (thru canopy)
☐ 48G3 48 LEDGINE Generation 3		NW Neutral White (40084 ±/- 250%)	S\$ Symmetrical Shine	☐ 240 240 volt ☐ 277 277 volt ☐ 347 347 volt	DS Double Skin (receised mount)  SM Surface Mount
(9906), mens approx.)			AS Asymmetrical Shane	UNV Universal Voltage 120-277, restrictions apply	RK11 Retrofit Kit LSI Dakota (2' x 2' Box)
	32G3 32 LEDGINE Generation 3 (6500 lumens approx.)  48G3 48 LEDGINE	□ 32G3 32 LEDGINE	☐ 32G3 32 LEDGINE ☐ 700 700 mA ☐ CW CoolWhite (±700K + /- 250K) ☐ 48G3 48 EEDGINE ☐ Generation 3	□ 32G3 32 LEDGINE Generation 3 (6500 lumens approx.) □ 48G3 48 LEDGINE Generation 3 (9500 lumens approx.) □ AND Neutral White (+000K ≠/- 250k) □ AND Neutral White (+000K ≠/- 250k) □ SS Symmetrical	□ 32G3 32 LEDGINE Generation 3 (6500 lumens approx.) □ 48G3 48 LEDGINE Generation 3 (9500 L.mens approx.) □ 48G3 48 LEDGINE Generation 3 (9500 L.mens approx.) □ AS Asymmetrical □ 208 208 volt □ 240 240 volt □ 240 240 volt □ 250 ki □ 347 347 volt □ 347 347 volt □ 348 Asymmetrical □ 348 Asymmetrical □ 347 347 volt □ 348 Asymmetrical □ 277 277 volt □ 348 Asymmetrical □ 347 347 volt □ 348 Asymmetrical □ 348 Asymmetrical □ 348 Asymmetrical □ 348 Asymmetrical □ 347 347 volt □ 348 Asymmetrical □ 348 Asymmetrical □ 347 347 volt □ 348 Asymmetrical □ 348 Asymm

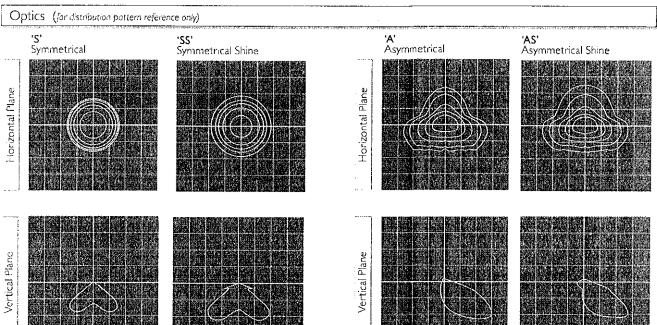
Options					Finish	,	Accessories (	must be ordered separacely& field installed)
F2* Doubl DD7 0-t0V Include exchag control  EPC4 Enviro	Fusing (120, 277, 347V) e Fusing (208, 240, 480V) Dinnming Driver as downing Griver with leads the luminare for secondary s) nimental Prosection Cover skin only)	Dynadimmer Safety Profile  DS25³  DS50³  DS75³	Dynadirimer (Median Profile  DM25³  DM50³  DM75¹	Dynadimmer Economy Profile  DE25³  DE50³  DE75³	□ WHT	Smooth white powder coat	General Accces  F1-KIT  F2-KIT  Retrofit Accces  RK2-M3L4	Single Fusing Field Install Kit (120, 177, 347V)  Double Fusing Field Install Kit (203, 240, 480V)  socries  Retrofit Kit #2 (LSI Scottsdale on similar)
Reful to installed Lighting Services 23 Specify voltage, Fx 3D by addingned to 3D by addingned to 3D by addingned to 3D by addingned to 3D KAZ-MAZ of a resistant product, if for details, in the first services and argent services and are details, and if the fact that are details and if the fact that are details and if the fact that are details are detailed to a red of fact that are detailed to the fact that are detailed to	using nor lava father with "UNM" volta trons are lonly available in 120-27 stroff, in the single skin mount. Tan accomplished lowering ruth Scattstoleff for minding a product thoff, for for the single akin mount. The latter medate an existing ruth section peloff fundameners of produc- cial fire candos y rounting. Vented ebris accumulation.	alls. The "Dakota" lugge option, 7 V. Demming enver it. Designed to repre- vict up to 13.11 is 13.4 it man, factured by Linc. it. Designed to replication of the pro- tomation of the pro- including the pro- vict up to 19.41 is 13.6 it man of charred by Elshier sheet metal environ	rranaire is a product of included. Its an USI Scottsdale res ", Refer to instruktion i ignt by Services, Inc (", can USI Rechnord Lun I. Befer to installation i gelding Services, Inc ("I mental top cover provi	anofactured by  cessed furnisaire or instructions 13901559 (50%), inside or instructions 15801558 (50%), inside or instructions 15801558 (50%), idea or instructions 1580158 (50%), idea			□ M3L-SCN <sup>®</sup>	(LSt Richmond or similar)

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### Gas Station Under Canopy

Type: Job:



### Technical Performance Matrix

Cat No.	Optic (distribution)	Total System Wattage @ 25°C ambient	Fixture Lumens @ 25"C ambient	Efficacy (Im/W) @ 25°C ambient	Fixture Lumens @ 40°C ambient	Efficacy (Im/W) @ 10°C ambient	Color Temperature (CCT)
M3L-32G3-700-CW	Symmetrical (S)	72	6,497	90	6,367	88	5700K
7.1	Symmetrical Shine (SS)	72	6,425	89	6,296	97	5700K
·	Asymmetrical (A)	72	6,149	85	6.026	84	5700K
	Asymmetrical (AS)	77	5.148	85	ь,025	26	5700K
M3L-48G3-700-CW	Symmetrical (\$)	104	10,240	93	10,035	96	5700K
	Symmetrical Shine (SS)	104	10,086	97	9,834	95	5700K
	Asymmetrical (A)	104	9,587	92	9,395	9C	5700K
	Asymmetrical (AS)	104	9.679	93	9,485	91	5700K
M3L-32G3-700-NW	Symmetrical (S)	72	6,873	95	6,735	94	4000K
	Symmetrical Shine (SS)	72	6.510	92	6,478	90	4000K
	Asymmetrical (A)	72	(,192	86	6,06 <b>3</b>	84	4000K
	Asymmetrical Shine (AS)	72	6,289	5/	6,163	86	4000K
M3L-48G3-700-NW	Symmetrical (S)	104	10,286	ça	10,080	97	4005K
	Symmetrical Shine (SS)	104	10,131	97	9,928	95	4006K
	Asymmatrical (A)	104	9,626	0.3	9,133	91	400u<
	Asy nimetrical Shine (AS)	104	9,726	94	9,53*	72	4000K

Always download the current photometric files at www.www.philips.com/lumimaires.com for the most accurate technical and performace data.

### Predicted Lumen Depreciation Data (L<sub>2</sub>)

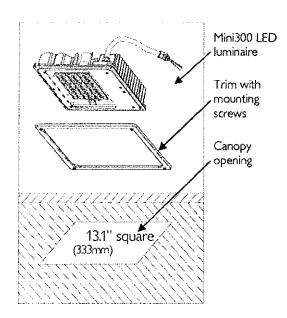
Predicted Lumen	Depresiation Dass <sup>5</sup>		de la la de les termes del reservor, derro tortado en el 1140 dese
Ambient Temperature	TM-21 Calculated L <sub>m</sub> hrs <sup>-1</sup> -	Reported L <sub>70</sub> per TM-21 <sup>16,11</sup>	Lumen Maintenance @ 60.000 hours
40°C	316.000 nrs	>60.000	95.9%

- Calculated performance derived from LEO manufacturer's data and engineering design estimates, pased a LESNA : frt-80 mathocology. Actual experience may vary due to field application contributes.
- 10, LZO is the predicted time when LEO performance depredates to 70% of initial lumen output.
- 11. Reported per IESNA TM21-11. Published L70 hours limited to 6 times actual LEO test hours.

### Gas Station Under Canopy

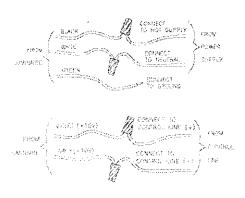
Type: Job:

Mounting Details: 'SS' Single Skin - Thru Canopy

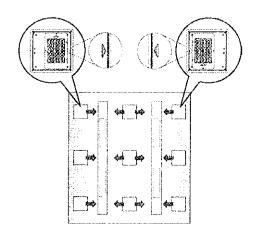


Note: Refer to installation instructions IS801554 for complete installation details,

### Wiring Diagram



### Asymmetrical Beam Orientation



#### Note:

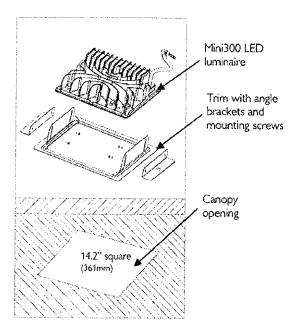
Asymmetrical Beam Or entation is denoted with an "arrow" to guide proper installation.

### Gas Station Under Canopy

Type:

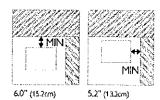
Job:

### Mounting Details: 'DS' Double Skin - Recessed Mount



Note: Refer to installation instructions IS801556 for complete installation details.

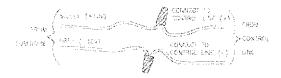
### Spacing Requirements



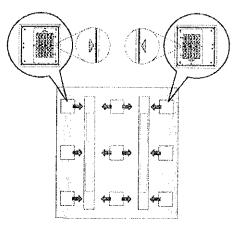
Wiring Diagram



### For dimming luminalres only:



Asymmetrical Beam Orientation



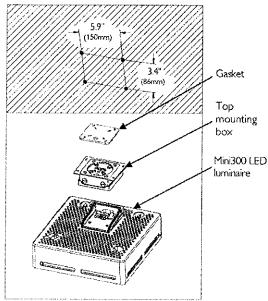
### Note:

Asymmetrical Beam Orientation is denoted with an "arrow" to go de proper installation.

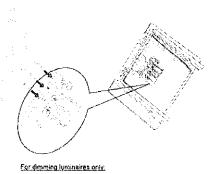
### Gas Station Under Canopy

Type: Job:

### Mounting Details: 'SM' Surface Mount



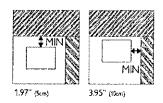
Wiring Diagram



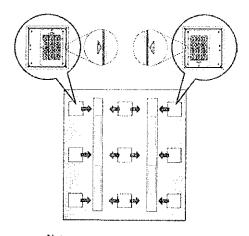


Note: Refer to installation instructions IS801557 for complete installation details.

Spacing Requirements



Asymmetrical Beam Orientation



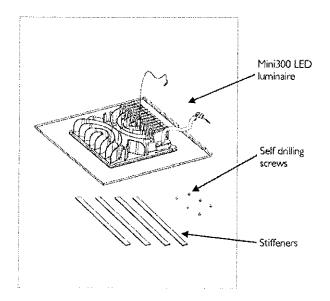
**Note:** Asymmetrical Beam Orientation is denoted with an "arrow" to guide proper installation.

### Gas Station Under Canopy

lob:

Type:

Mounting Details: Retrofit - 'RK1' Retrofit #11.2 LSI Dakota (2' x 2' Box)



#### Notes:

- Refer to installation instructions IS801571 for complete installation details.
- 2. The "Dakota" luminaire is a product manufactured by Lighting Services, Inc ("LSI").
- 3. 'RKI' is designed for use with LSI's Dakota only.
- 4. 3. 0-10V Dimming Driver not available with RK1 retrofit kit.

**WARNING:** – Risk of fire or electric shock. Luminaires wiring, power supply, or other electrical parts may be damaged when drilling for installation of retrofit assembly hardware. Inspect wiring and components for damage.

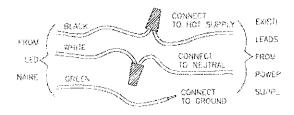
**WARNING:** – Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

**WARNING:** – Risk of fire or electric shock. Install this kit only in the luminaires that have the construction features and dimensions shown in the photographs and/or drawings.

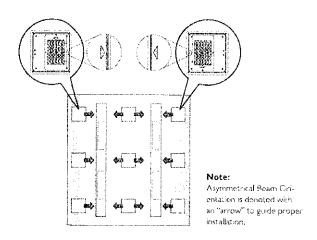
**WARNING:** – To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an electrical enclosure of wiring or electrical components.

### Wiring Diagram



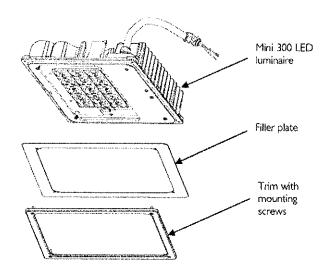
### Asymmetrical Beam Orientation



### Gas Station Under Canopy

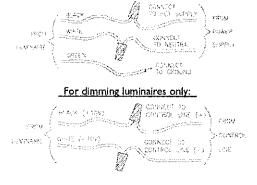
Туре:	Job:	
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Retrofit Accessory Details: 'RK2-M3L' Retrofit #2<sup>5,2</sup> (LSI Scottsdale or similar, must be ordered separately)

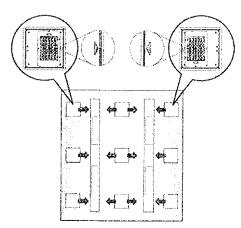


- Notes:
  1. Refer to installation instructions IS801559 for complete installation details.
- The "Scottsdale" luminaire is a product manufactured by Lighting Services, Inc ("LSI").
   'RK2' designed to retrofit LSI Scottsdale semi-recessed luminaireor similar product with similar dimensions.

### Wiring Diagram



### Asymmetrical Beam Orientation

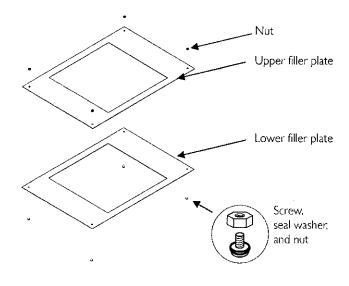


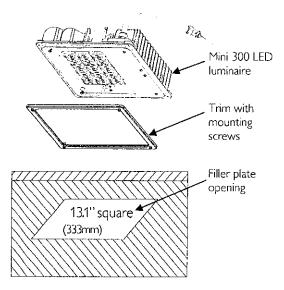
Asymmetrical Beam Orientation is denoted with an "arrow" to guide proper installation.

Gas Station Under Canopy

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Гуре:	lob:

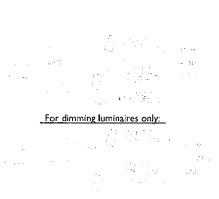
Retrofit Accessory Details: 'RK3-M3L' Retrofit #31.2 (LSI Richmond or similar, must be ordered separately)

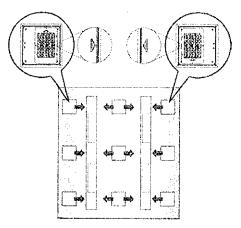




Wiring Diagram







#### Note:

Asymmetrical Beam Orientation is denoted with an "arrow" to guide proper installation.

#### Notes

- 1. Refer to installation instructions IS801558 for complete installation details.
- 2. The "Richmond" luminaire is a product manufactured by Lighting Services, Inc ("LSI").
- 3. RK3' designed to retrofit LSI Richmond recessed luminaireon similar product with similar dimensions.

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