



III. A.

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

Architectural Review Board Staff Report

Project Type: Site Development Section Plan

Meeting Date: May 8, 2014

From: Jonathan Raiche
Senior Planner

CC: Aimee Nassif, Planning & Development Services Director

Location: South of Olive Street Road, west of Spirit Valley East Drive

Applicant: Rainbow Point Properties, LLC

Description: **Spirit Valley Business Park, Lot 16:** A Site Development Section Plan, Lighting Plan, Landscape Plan, Architectural Elevations and an Architect's Statement of Design for a 3.123 acre tract of land zoned "PI" Planned Industrial District located on the south side of Olive Street Road, west of Spirit Valley East Drive.

PROPOSAL SUMMARY

The request is for a one story, 19,508 square foot Office/Manufacturing/Warehouse building located in the center row of lots between Spirit Valley East Drive and Spirit Valley Central Drive. The subject site is zoned "PI" Planned Industrial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 2745. The exterior building materials will be comprised of tilt-up concrete, and glass. The proposed building elevations show articulation through use of glass, reveals, and colors.

HISTORY OF SUBJECT SITE

On June 18th, 2007, the City of Chesterfield approved Ordinance 2373, which zoned the subject site from a "NU" Non-Urban District to a "PI" Planned Industrial District. This ordinance has been amended twice (2008 and 2013) to amend the uses permitted within the development and the site is currently governed under the terms and conditions of the City of Chesterfield Ordinance 2745.

A Site Development Concept Plan, approved by the City of Chesterfield on October 2, 2007, included 16 lots served by a loop road and providing a connection to the west for an eventual second phase of the development. An Amended Site Development Concept Plan was approved by the Planning Commission on September 30, 2013 to allow for 6 additional lots, bringing the total number of lots to 22. Additionally, there were two lot splits approved for lot 9 and lot 1 in 2013.



STAFF ANALYSIS

General Requirements for Site Design:

A. Site Relationships

The subject site is directly adjacent to other lots in the Spirit Valley Business Park development with Lot 15 developed by DSS, LLC to the north, vacant land to the south and west, and near three developed parcels across Spirit Valley East Drive including the one site occupied by Chesterfield Fence & Deck. The proposed building uses similar materials and design as other buildings constructed in the area.

B. Circulation System and Access

The site proposes one access point off Spirit Valley East Drive and one off Spirit Valley Central Drive utilizing the properties dual frontage. The sidewalk to provide circulation through this subdivision is located across the street.

C. Topography

The existing grade of the property is flat. Minimal changes to the existing topography are planned.

D. Retaining Walls

No retaining walls are proposed on the site.

General Requirements for Building Design:

A. Scale

The applicant is proposing a building of similar height and size as the adjacent structures. The design includes a single-story office/manufacturing/warehouse building similar to adjacent properties. The office portion is proposed at a height of 14 feet and the warehouse is proposed at a height of 24 feet.

Additionally, elements such as large windows, reveals, and an entry plaza are proposed to provide a sense of human scale.

B. Design

The proposed development of Lot 16 is similar to other nearby buildings in both materials and design. An entry plaza with a projecting canopy is included which provides visual indication of the building's entry while providing protection. No rooftop equipment will be utilized for this site. There is also a rain garden proposed on the southern border of the site.

C. Materials and Color

As mentioned previously, the building will be primarily comprised of tilt-up concrete panels. The front of the building is articulated with glass (gray tinted), reveals, and different paint colors (two earth tone colors). The material colors proposed match the earth tone color palette of the surrounding structures.

D. Landscape Design and Screening

The proposal includes landscaping required by the City of Chesterfield Tree Preservation and Landscape Requirements Ordinance. Additionally, the proposed landscaping is similar to the adjacent properties.

The dumpster will be screened by a 6' tall enclosure constructed with concrete panels to match the color and reveals of the building. A proposed 8' tall chain-link slatted fence exists around the warehouse portion and outdoor storage area of the site and is similar to the existing fence on Lot 15 to the north.

E. Signage

Signage is not part of the proposal before Architectural Review Board and will be reviewed by Staff.

F. Lighting

The plan proposes light standards along the western, eastern, and southern boundaries of the parking lot, six wall-mounted shoebox type fixtures, six wall mounted fixtures above man doors, and one light standard in the entry plaza. All the proposed fixtures are full cut off optics with perimeter fixtures being shielded and are compliant with City code.

Specific Requirements for the Chesterfield Valley

Facades: The proposed building includes tall gray tinted glass windows on the north and east elevations with the remainder of the building utilizing tilt-up concrete with consistent reveal and color elements on all four sides. The proposed trash enclosure also utilizes one of the two colors found on the building as well as similar reveal details.

Storage: The outdoor storage area will be screened utilizing the proposed 8' chain-link slatted fence.

Utilities: All utilities to the building will be installed underground.

Parking: Parking is proposed to be dispersed on three sides of the property. Loading areas are screened identically to the proposed method of the outdoor storage area.

DEPARTMENTAL INPUT

Staff has reviewed the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design. Comment letters have been sent to the applicant regarding Staff issues.

Staff requests action on the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Spirit Valley Business Park, Lot 16.

MOTION

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

- 1) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Spirit Valley Business Park, Lot 16, as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Spirit Valley Business Park, Lot 16, to the Planning Commission with the following recommendations..."

Attachments

1. Architectural Review Packet Submittal

Chesterfield Fence and Deck, Inc.

Spirit Valley Business Park

Lot 16

Chesterfield, Missouri

April 24, 2014



Owner:

Rainbow Point Properties

Architect:

David W. Dial Architects, P.C.

Civil Engineer:

**Stock & Associates Consulting
Engineers, Inc.**



ARCHITECTURAL REVIEW BOARD
Project Statistics and Checklist

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

Project Title: _____ Location: _____

Developer: _____ Architect: _____ Engineer: _____

PROJECT STATISTICS:

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

Proposed Usage: _____

Exterior Building Materials: _____

Roof Material & Design: _____

Screening Material & Design: _____

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

ADDITIONAL PROJECT INFORMATION:

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

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

General Requirements for Building Design

The owner of this facility, being a long time and current business resident of the City of Chesterfield, wants this building to represent the quality that they have offered in their many years of service and, as such, has placed a high priority on the appearance of his facility.

The front and side office elevations are articulated with glass, reveals, level change and paint colors. The north and east sides of the warehouse portion of the building is designed similar to the front by adding tall windows and reveals in rhythmically pleasing geometric patterns with accent colors to add depth to the elevations.

As seen on the attached elevations, the building will utilize two earth tone colors, gray tinted glass and clear anodized aluminum window frames. The colors, glass and metal items are juxtaposed on the façades of the building to create a very nice overall building design. These include a main building color of a light warm taupe and darker accent color of similar nature.

The building is constructed of tilt-up concrete panels, which is the same material as the other buildings in for this business park. A special elastomeric coating designed specifically for concrete will protect the concrete panels.

The glass will be an energy efficient, tinted, glass in clear anodized aluminum frames. As you can see on the attached elevations, we have used the glass as an effective design element in the elevational articulation.

The design is respectful of the surrounding development in general and is harmonious in scale, material, and color. Nearby buildings are also constructed of tilt-up concrete and/or earth tone colors and materials similar to ours. Signage will be applied to the building in a similar fashion as adjacent buildings.

Site lighting is planned to be light standards around the building with wall-mounted, shoebox type fixtures on the warehouse portion of the building that will not shine off of the property in an unnecessary fashion.

Please see the site development section plan for drainage information.

This facility is being designed with an energy efficient heat pump system that will eliminate the need for roof top equipment. Therefore no roof screening is required or provided.

Specific Requirements for the Chesterfield Valley

As stated above we encompass the building with reveals and colors for continuity while highlighting the visible front with glass. The warehouse portion of the building is enclosed with a vinyl slatted chain-link fence (consistent with established businesses in the same development) which encloses the truck court and trash receptacle from public view.

The electrical service will be provided by the existing transformer located on the adjacent property to the south adjacent to Spirit Valley East Drive so no new electrical transformer will be added. All utilities to this building are underground.

I-64/US-40 is to the north of this property and is not readily visible from the property. Automobile parking is east of the building and the service/loading area is on the north and west sides of the building.

No street lighting is included in this project as the pattern of light standards falls on the other side of the street.

It remains our intentions to provide a design that will enhance the local environment while blending with the building types already in the Spirit Valley Business Park. The owner is excited about expanding their business to their new facility and remaining a resident of the City of Chesterfield.

Thank you for your assistance.

As required, building materials that will be brought to the ARB meeting will include:

Glass and frame sample, and
Color samples of the concrete coatings.

End of Architects Statement



LOOKING NORTH



LOOKING EAST



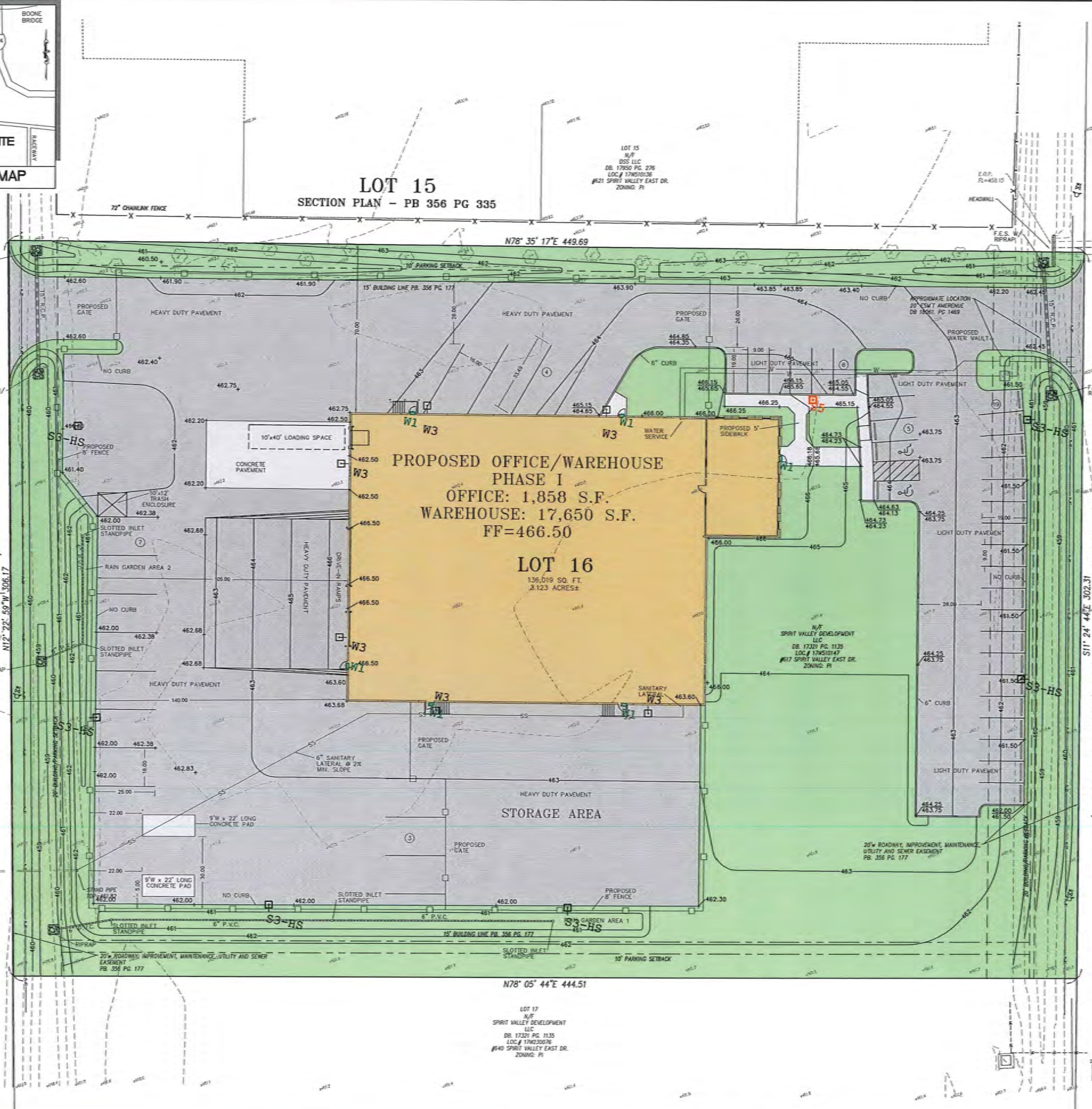
LOOKING SOUTH



LOOKING WEST



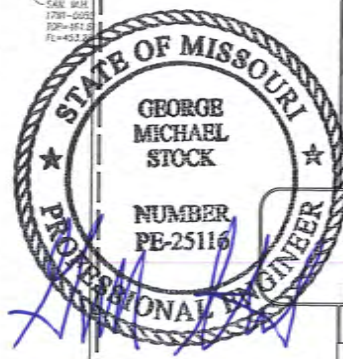
SPIRIT VALLEY CENTRAL DRIVE (40W PUBLIC)



SPIRIT VALLEY EAST DRIVE (40W PUBLIC)

LOT 12

N/F
CHESTERFIELD FENCE AND DECK CO INC.
DB. 18057, PG. 1826
LOC. NO. 17W510114
620 SPIRIT VALLEY EAST DR.
3.470 AC
SECTION PLAN - PB 356 PG 552

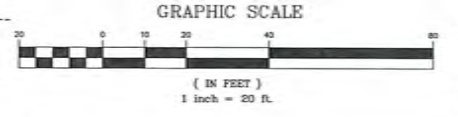


LOT 11

N/F
SR PROPERTIES II LLC
DB. 18033, PG. 1231
LOC. NO. 17W510103
616 SPIRIT VALLEY EAST DR.
1.934 AC
SECTION PLAN - PB 356 PG 241

ADJ LOT 10

N/F
MMLD PROPERTIES LLC
DB. 20076, PG. 3070
LOC. NO. 17W230087
612 SPIRIT VALLEY EAST DR.
1.113 AC
**SECTION PLAN
PB 360 PG 231**



PREPARED BY:

STOCK & ASSOCIATES
Consulting Engineers, Inc.
287 Chesterfield Business Parkway
St. Louis, MO 63003 PH: (636) 582-3000 FAX: (636) 582-3000
www.stockandassociates.com

PRELIMINARY SITE PLANS FOR:

RAINBOW POINT PROPERTIES, LLC
617 SPIRIT VALLEY EAST DRIVE
CHESTERFIELD MISSOURI

DATE: 4-23-14

GEORGE M. STOCK E-25116
CIVIL ENGINEER
CERTIFICATE OF AUTHORITY
NUMBER: 000596

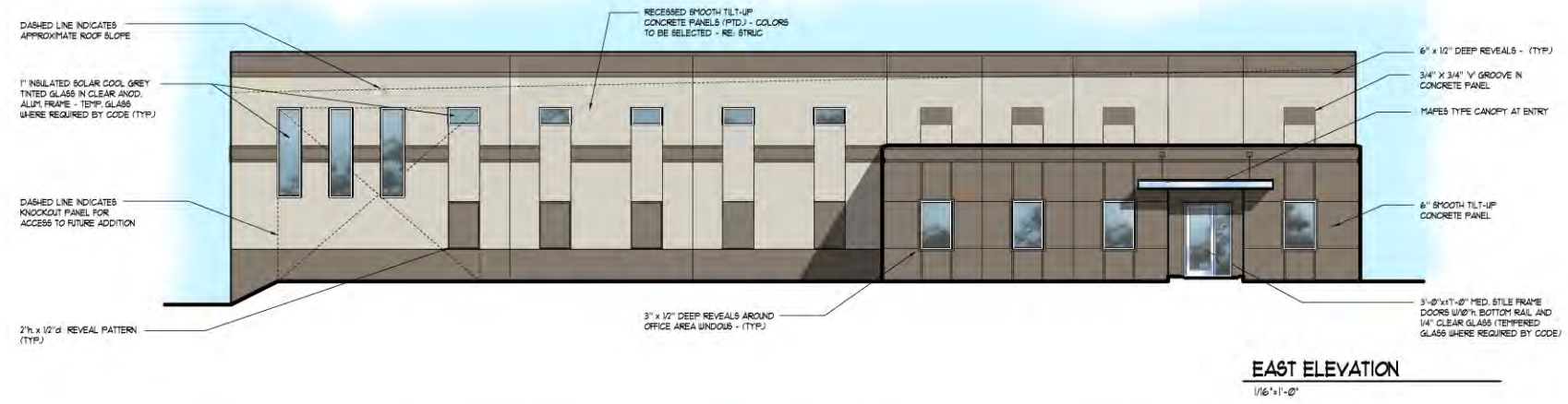
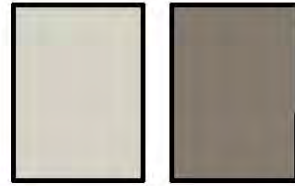
REVISIONS:

DRAWN BY:	E.J.F.	CHECKED BY:	G.M.S.
DATE:	04/23/14	DRAWING NO.:	214-5281
SCALE:	AS SHOWN	DATE:	
SCALE:	AS SHOWN	DATE:	
SCALE:	AS SHOWN	DATE:	

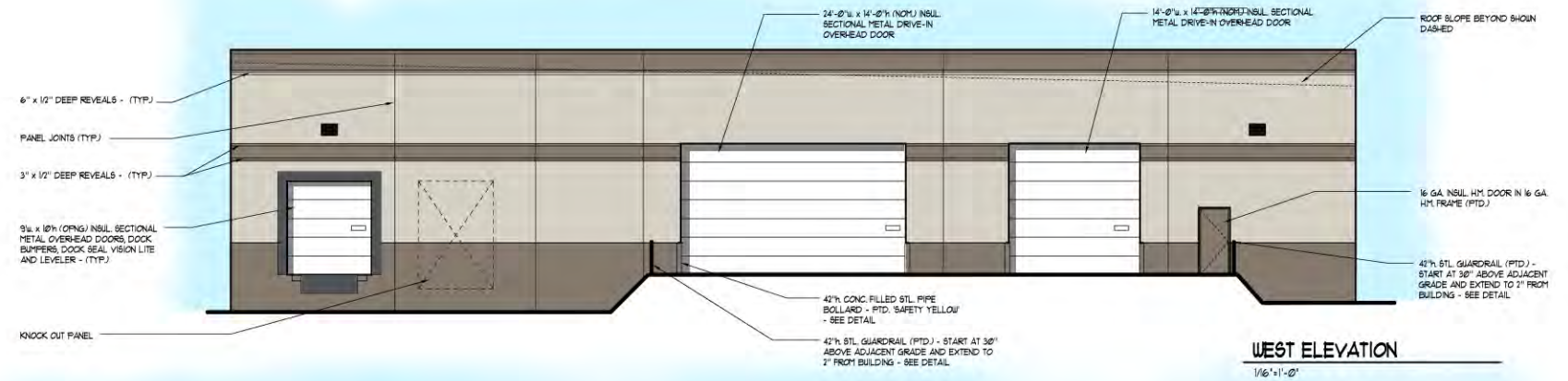
COLOR SITE PLAN

SHEET NO.:

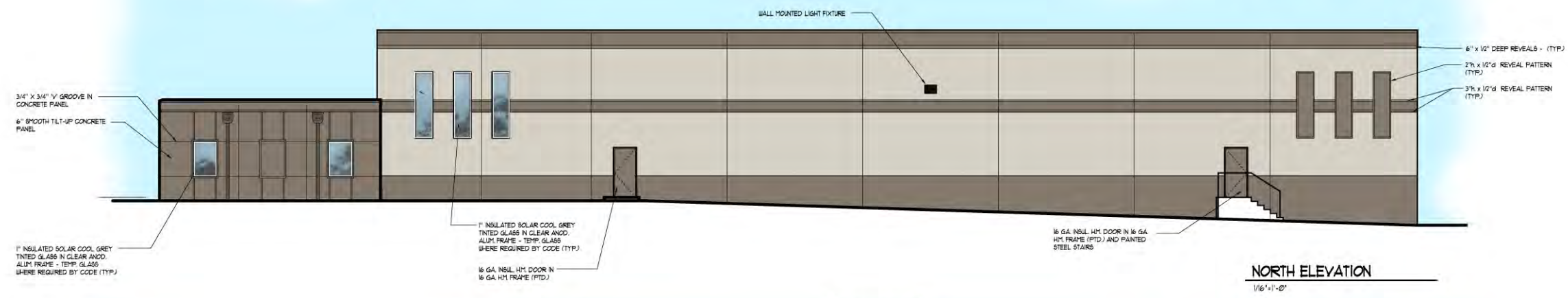
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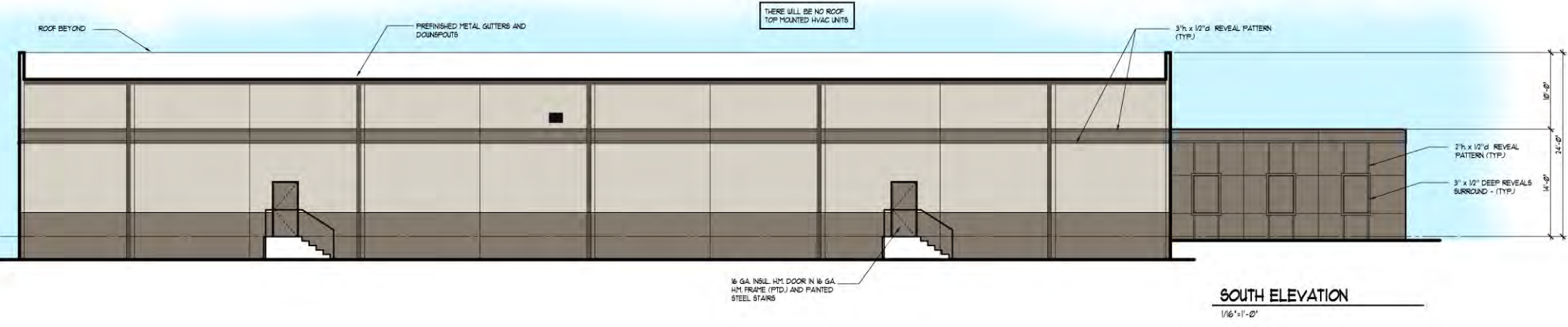
EAST ELEVATION
1/16"=1'-0"



WEST ELEVATION
1/16"=1'-0"



NORTH ELEVATION
1/16"=1'-0"



SOUTH ELEVATION
1/16"=1'-0"



General Contractor:

Structural Engineer:

Proposed New Facility for ...
Rainbow Point Properties, LLC
 617 Spirit Valley East Drive - Lot 16
 Chesterfield, Missouri 63005

ISSUE DATES:
 INITIAL CITY SUBMITTAL: 04-03-14
 INITIAL CITY SUBMITTAL: 04-14-14
 REVISIONS: 04-24-14

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STATE OF MISSOURI REGISTERED ARCHITECT:
 DAVID WILLIAM DIAL - LICENSE NUMBER A-7331
 DAVID W. DIAL ARCHITECTS, P.C.
 ARCHITECTURAL CORPORATION #0000149091

THE ARCHITECT'S SEAL AFFIXED TO THIS SHEET INDICATES THAT THE NAMED ARCHITECT HAS PREPARED OR DIRECTED THE PREPARATION OF THE MATERIAL SHOWN ONLY ON THIS SHEET. OTHER DRAWINGS AND DOCUMENTS, NOT CARRYING THIS SEAL, SHALL NOT BE CONSIDERED PREPARED BY OR THE RESPONSIBILITY OF THE UNDERSIGNED.

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 14364 Manchester Road • Manchester Missouri 63011
 636 230 0400 www.dialarchitects.com

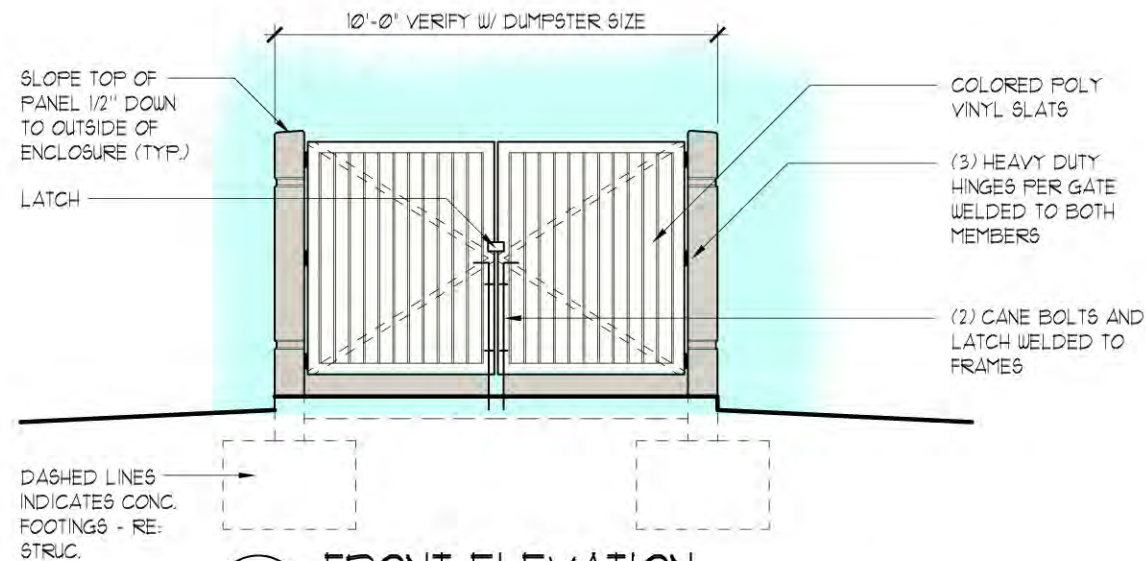
SHEET NUMBER:
ELEVATIONS

PROJECT NUMBER: 14050 DATE: 04-15-14

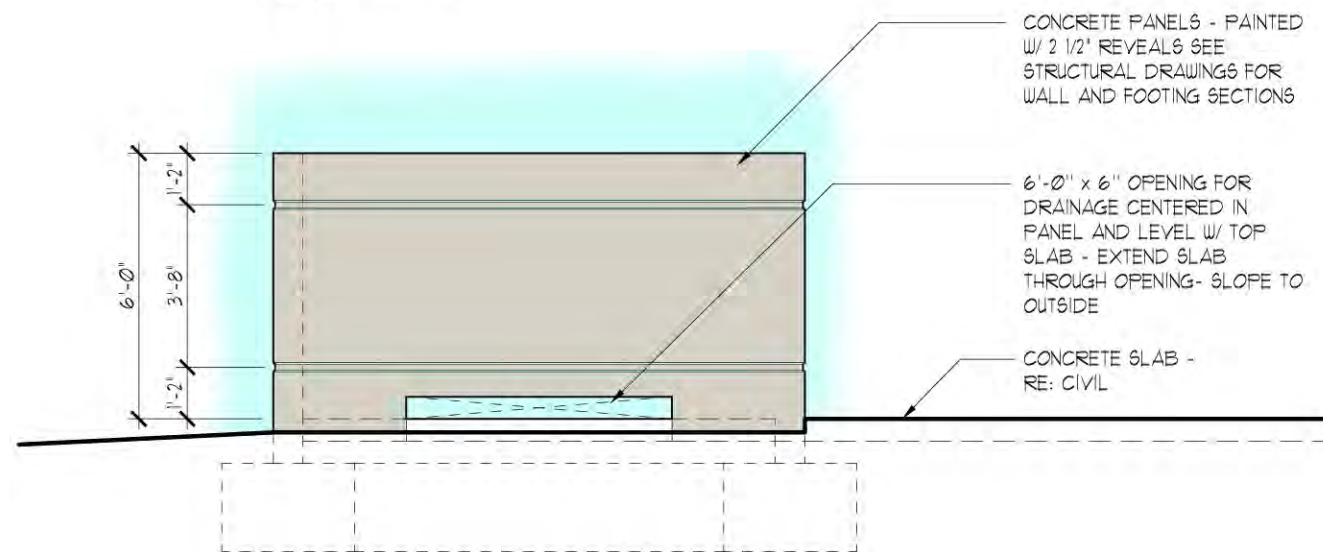


DIAL
ARCHITECTS

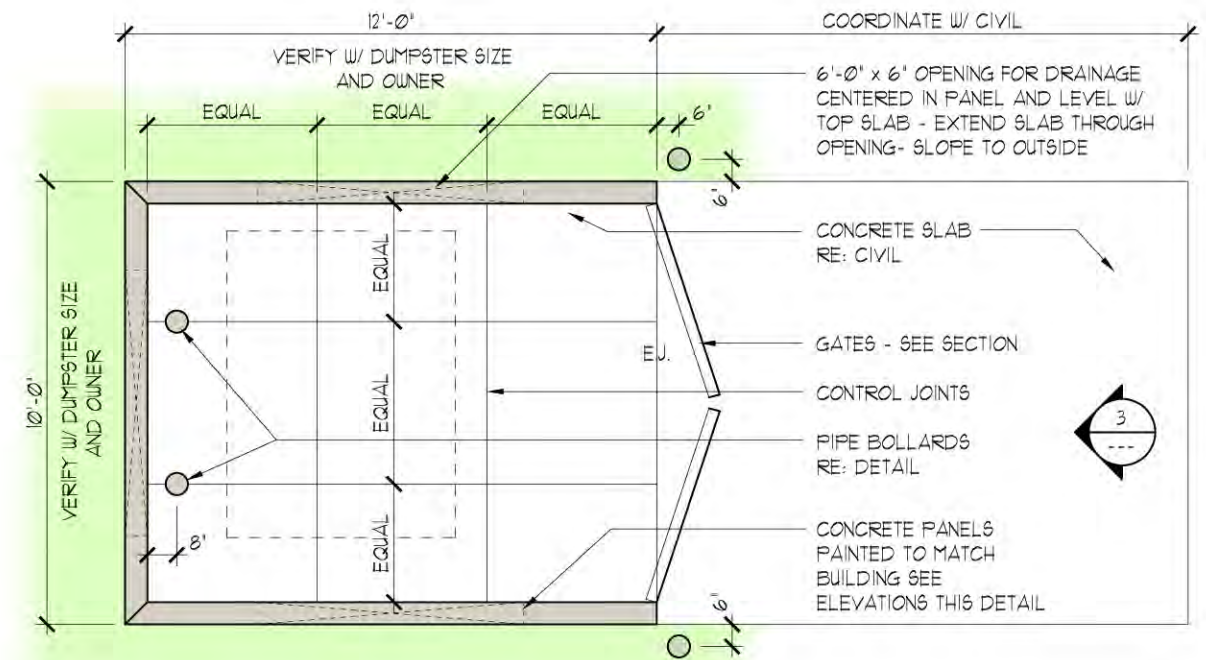
RICE



3 FRONT ELEVATION
1/4" = 1'-0"



2 SIDE ELEVATION
1/4" = 1'-0"



1 DUMPSTER PLAN
1/4" = 1'-0"

NOTE:
DUE TO VARYING DUMPSTER SIZES, THE G.C. MUST VERIFY THE SIZE OF THIS ENCLOSURE WITH THE OWNER AND/OR THE DUMPSTER SIZES INTENDED TO BE USED TO INSURE PROPER FIT.

New Building for:

Chesterfield Fence and Deck

Chesterfield, MO 63005

DATE:
04-24-2014
DDA PROJECT NUMBER:
14050
DUMPSTER DETAILS

OPENSOURCE CALCULATIONS:
 SITE: 135,019 Sq. Ft.
 OPENSOURCE: 46,920 Sq. Ft.
 (Approx. 34.75% opensource)

LOT 15
 SECTION PLAN - PB 356 PG 335

LOT 15
 N/F
 BSS LLC
 DR. 17850 PG. 278
 LOC. # 17850338
 #821 SPIRIT VALLEY EAST DR.
 ZONING: P1

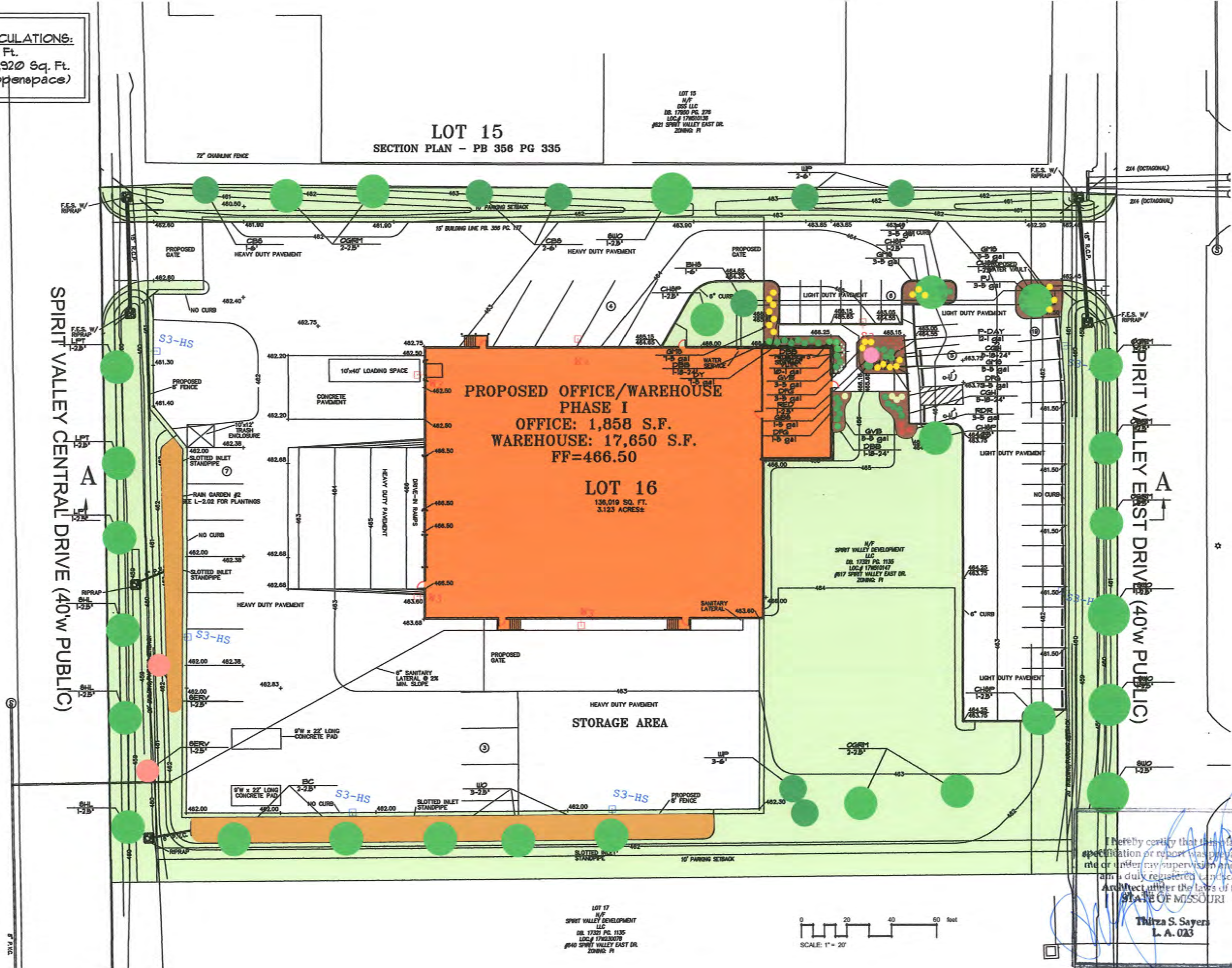
LOT 16
 136,019 SQ. FT.
 3.123 ACRES±

PROPOSED OFFICE/WAREHOUSE PHASE I
 OFFICE: 1,858 S.F.
 WAREHOUSE: 17,650 S.F.
 FF=466.50

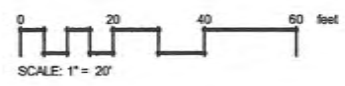
STORAGE AREA

SPIRIT VALLEY CENTRAL DRIVE (40'w PUBLIC)

SPIRIT VALLEY EAST DRIVE (40'w PUBLIC)



LOT 17
 N/F
 SPIRIT VALLEY DEVELOPMENT
 LLC
 DR. 17320 PG. 1135
 LOC. # 173203079
 #810 SPIRIT VALLEY EAST DR.
 ZONING: P1



I hereby certify that this plan, specification or report was prepared by me or under my supervision and that I am a duly registered Landscape Architect under the laws of the STATE OF MISSOURI

Thirza S. Sayers
 L. A. 023

Drawn by:	CJA
Scale:	1" = 40'
Date:	3-27-14
Revised:	4-23-14

BAXTER FARMS and NURSERIES
 3411 CREVE COEUR MILL ROAD
 ST. LOUIS, MISSOURI 63146
 314/942-9400

Rainbow Point Properties, LLC
 617 Spirit Valley East Drive
 Chesterfield, MO

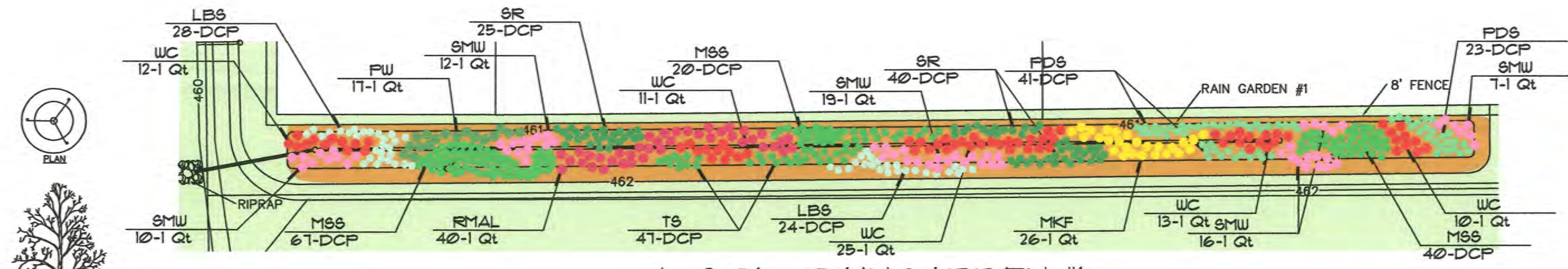
Drawing Number:
L-1
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Drawn by: CJA
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 Date: 3-27-14
 Revised: 4-23-14

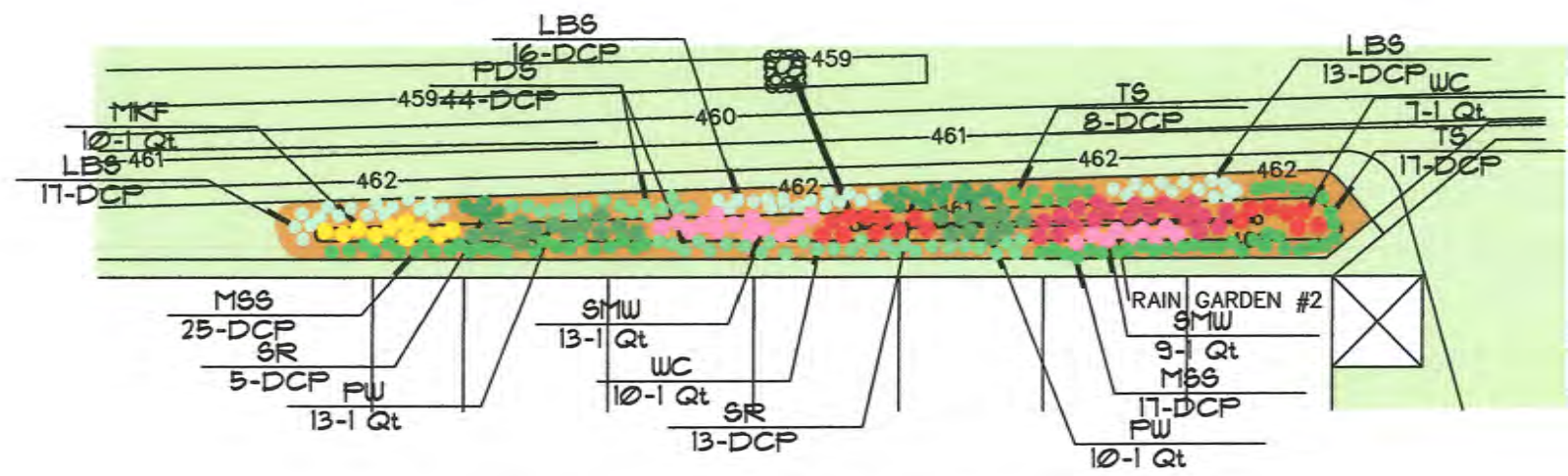
BAXTER FARMS
 and NURSERIES
 3411 CREVE COEUR MILL ROAD
 ST. LOUIS, MISSOURI 63146
 314/982-9400

Rainbow Point Properties, LLC
 617 Spirit Valley East Drive
 Chesterfield, MO

Drawing Number:
L-2
 of two



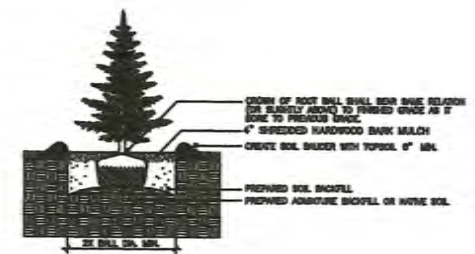
L-2.01: RAINGARDEN #1
 SCALE: 1" = 10'



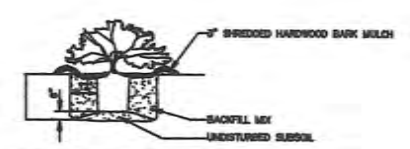
L-2.02: RAINGARDEN #2
 SCALE: 1" = 10'



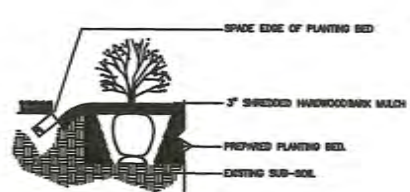
1
 L-1
 DECIDUOUS TREE PLANTING (3" Cal. of Larger)
 N.T.S.



2
 L-1
 EVERGREEN TREE PLANTING
 N.T.S.



3
 L-1
 SHRUB PLANTING
 N.T.S.



4
 L-1
 SPADE-CUT EDGE DETAIL
 N.T.S.

- NOTES:**
1. SITE TO BE IRRIGATED BY AUTOMATIC IRRIGATION SYSTEM.
 2. ALL MULCH TO BE SHREDDED HARDWOOD BARK MULCH AT 3" DEPTH UNLESS OTHERWISE NOTED ON PLANS. ALL BEDS TO RECEIVE A SPADE CUT EDGE UNLESS OTHERWISE NOTED ON PLANS.
 3. THE LANDSCAPE CONTRACTOR IS TO RECEIVE THE SITE GRADE TO WITHIN 1/8" OF FINAL GRADE.
 4. ALL PLANT MATERIAL (EXCLUDING GROUNDCOVER, PERENNIALS, & ANNUALS) SHALL BE WARRANTED FOR 12-MONTHS AFTER INSTALLATION AT 100% COST.
 5. ALL DISTURBED AREAS TO BE SEEDED WITH A FESCUE/BUEGRASS BLEND. CONTRACTOR TO PROVIDE AN ALTERNATE FOR 80D.
 6. ONE (1) TREE IS REQUIRED FOR EVERY FIFTY (50) LIN. FEET OF STREET FRONTAGE.
 7. 30% OF TREES TO BE PLANTED MUST BE QUALIFIED AS SLOW/MEDIUM GROWTH RATE TREES PER APPENDIX 'A'.
 8. TREES ARE CATEGORIZED AS EITHER DECIDUOUS, EVERGREEN, OR ORNAMENTAL. NO LESS THAN 20% OF EACH CATEGORY MUST BE REPRESENTED.
 9. LANDSCAPE ISLANDS AT THE END OF A SINGLE ROW OF PARKING SHALL RECEIVE ONE (1) DECIDUOUS TREE PER ISLAND.
 10. LANDSCAPE ISLANDS AT THE END OF A DOUBLE ROW SHALL RECEIVE TWO (2) DECIDUOUS TREES PER ISLAND.
 11. UPON RELEASE OF LANDSCAPE INSTALLATION BOND, A TWO (2) YEAR LANDSCAPE MAINTENANCE BOND SHALL BE REQUIRED.

STREET TREE CALCULATION:

1. (514) L.N. FT. STREET FRONTAGE
 -514 / 50' = 10.28 STREET TREES REQUIRED
 -TWELVE (12) STREET TREES PROVIDED
 - (3) 18" DIA. WHITE OAK
 - (3) OCTOBER GLORY RED MAPLE
 - (3) KYLINE HONEYLOCUST
 - (3) LONDON PLANETREE

SLOW/MEDIUM GROWTH RATE CALCULATION:

1. 30 TOTAL TREES
 -30% = 11.4 TREES REQUIRED TO BE SLOW/MEDIUM
 -15 TREES PROVIDED (APPROX. 35%)

PLANT-SCHEDULE

COMMON	QTY	COMMON NAME / BOTANICAL NAME	CONT	MATURITY
OGRH	1	October Glory Maple / <i>Acer rubrum</i> 'October Glory'	25'	40+
SHL	3	Shylite Honeylocust / <i>Gleditsia triacanthos</i> var. <i>hirsuta</i> 'Shylite'	25'	40+
LPT	3	London Plane Tree / <i>Platanus acerifolia</i> 'Bloodgood'	25'	40+
WO	3	White Oak / <i>Quercus alba</i>	25'	40+
80D	4	Swamp White Oak / <i>Quercus bicolor</i>	25'	40+
BC	2	Bald Cypress / <i>Taxodium distichum</i>	25'	40+
WH	4	White Pine / <i>Pinus strobus</i>	6'	40+
BH-S	1	Black Hills Spruce / <i>Picea glauca</i> <i>densata</i>	6'	30-40'
CB-S	3	Colorado Blue Spruce / <i>Picea pungens</i>	6'	30-40'
RED	1	Eastern Redbud / <i>Cercis canadensis</i>	25'	20-30'
CHP	5	Chantrelle Select Pear / <i>Pyrus calleryana</i> 'Chantrelle'	25'	8-25'
SERV	2	Serviceberry / <i>Amelanchier arborea</i>	25'	20-30'
GVB	5	Green Velvet Boxwood / <i>Buxus</i> x 'Green Velvet'	5 gal	30-36"
DBS	5	Duf. Burning Bush / <i>Euonymus alatus</i> 'Compactus'	18-24"	4-5'
P-DAY	12	Pardon Me Daylily / <i>Hemerocallis</i> hybrid 'Pardon Me'	1 gal	12-18"
CGH	10	China Girl Holly / <i>Ilex neaveana</i> 'China Girl'	18-24"	4-5'
PJ	6	Procurbens Juniper / <i>Juniperus sabina</i> 'Procurbens Nana'	5 gal	2-3'
VLIR	10	Variegated Liriodendron / <i>Liriodendron macarri</i> 'Variegata'	1 gal	12"
DRG	1	Dwarf Fountain Grass / <i>Pennisetum alopecuroides</i> 'Hazel'	5 gal	24-30"
GBS	1	Globe Blue Spruce / <i>Picea concolor</i> 'Globea'	5 gal	2-3'
RDR	3	Red Drift Rose / <i>Rosa</i> x 'Drift'	5 gal	2-3'
GRS	10	Goldound Spirea / <i>Spiraea bumalda</i> 'Goldound'	5 gal	2-3'
DY	1	Dense Yew / <i>Taxus media</i> 'Densiformis'	5 gal	4-5'

*Indicates Slow/Medium Growth Rate

PLANT-SCHEDULE-RAINGARDENS

FORMS	QTY	COMMON NAME / BOTANICAL NAME	CONT
SMW	88	Swamp Milkweed / <i>Asclepias incarnata</i>	1 Qt
RMAL	60	Rose Mallow / <i>Hibiscus laetiflorus</i>	1 Qt
MKF	36	Monkeyflower / <i>Mimulus ringens</i>	1 Qt
PW	40	Pickard Weed / <i>Pontederia cordata</i>	1 Qt
WC	80	Wild Cane / <i>Thalia dealbata</i>	1 Qt
MBS	160	Flaming Star Budge / <i>Carex grayi</i>	DCP
TS	12	Tussock Sedge / <i>Carex stricta</i>	DCP
SR	83	Soft Juncus / <i>Juncus effusus</i>	DCP
LBS	90	Little Bluestem / <i>Schizachyrium scoparium</i>	DCP
PDS	100	Prairie Dropseed / <i>Sporobolus heterolepis</i>	DCP

I hereby certify that this plan, specification or report was prepared by me or under my supervision and that I am a duly registered Landscape Architect under the laws of the STATE OF MISSOURI

Thomas S. Sayers
 L.A. 023

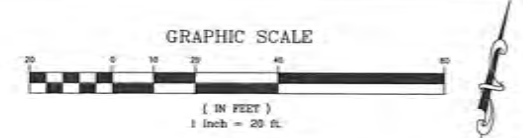
STRIKED POINTS FALL BELOW .4 FC
 ALL FIXTURES SHOWN AT 20' AFS
 ALL FIXTURES ARE FULL CUTOFF (FLAT LENS) AND PERIMETER FIXTURES HAVE HOUSE SIDE SHIELDS
 PROPERTY LINE CALC'D TO NOT EXCEED .5 FC

Initial Values	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
FLL CAD' FORMS	Illuminance	FC	2.61	8.6	0.0	N.A.	N.A.
PROPERTY LINE	Illuminance	FC	0.13	0.5	0.0	N.A.	N.A.
PAVED SURFACES	Illuminance	FC	3.28	10.6	0.1	32.80	106.00

Maintained Values	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
BUILDING ENTRANCES	Illuminance	FC	7.35	8.5	4.6	1.59	1.85
MATERIAL STORAGE (INDUCTIVE)	Illuminance	FC	3.03	6.5	0.9	3.37	9.44

Luminaire Schedule	Label	Qty	Description	Total Lamp Lumens	LLF
1	S3-HS	6	HSV-a-P40-V38-F-R50S2 ON 18" POLE WITH 3" CONCRETE BASE	44900	1.000
2	S5	1	HSV-a-P40-V38-F ON 18" POLE W/ 2" CONCRETE BASE	44900	1.000
3	N3	4	HSV-a-P40-V38-F WALL MOUNTED @ 20' AFS	44900	1.000
4	N1	4	LOC42F WALL MOUNTED ABOVE MPH DOORS @ 13' AFS	3300	1.000

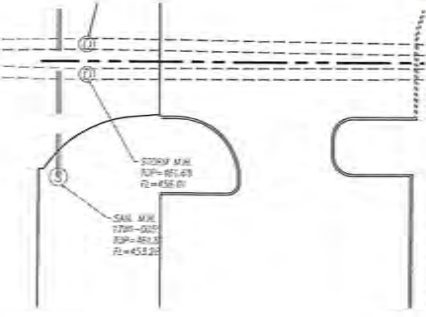
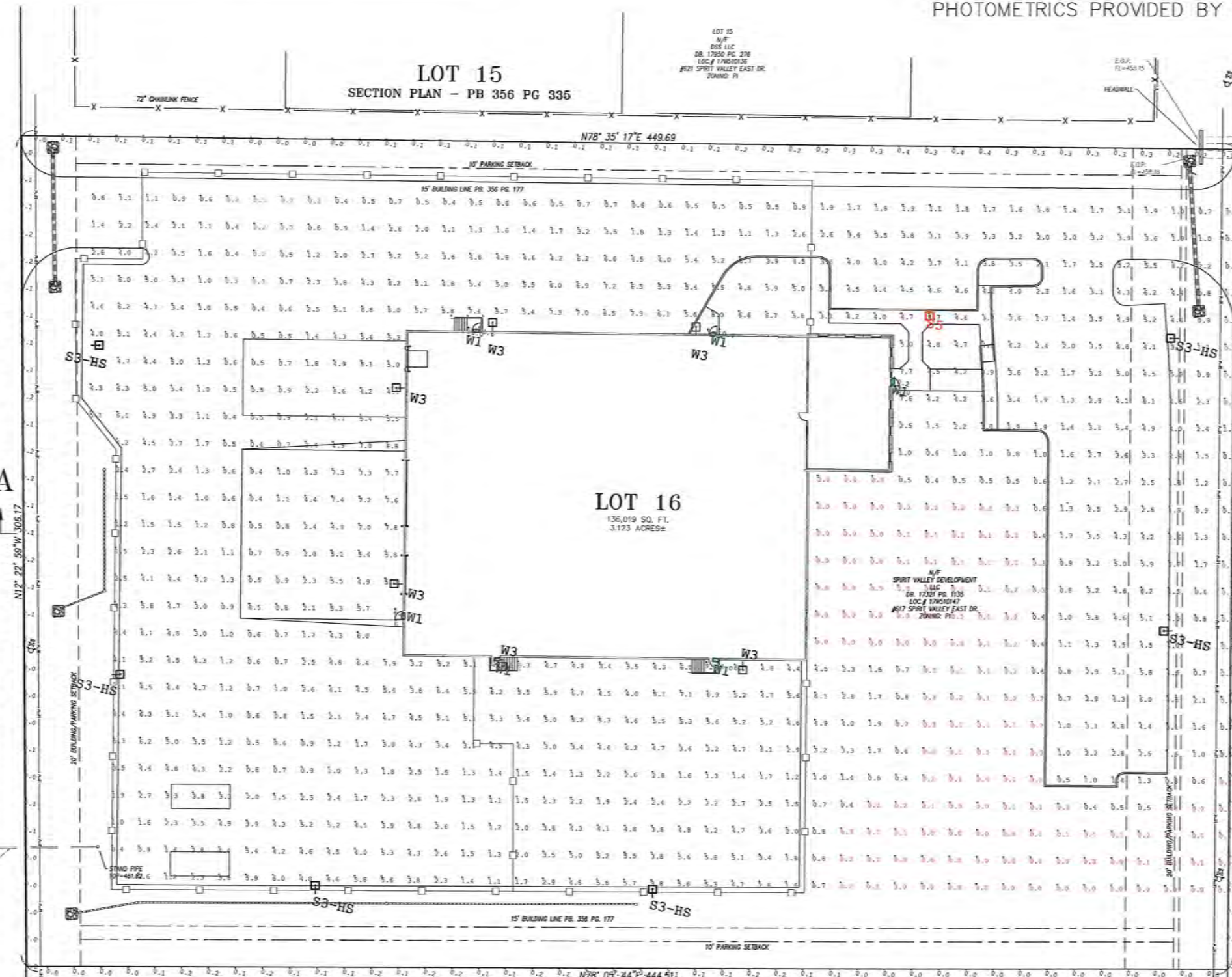
LECO
 Date: 04/23/2014
 Calculations Provided by Luikart-Eason-Calcaterra & Co.
 11098 Hillpark Dr., Suite 120, Maryland Heights, Mo. 63043
 Phone: 314-299-7500 Fax: 314-299-8559 www.lecoinc.com



PHOTOMETRICS PROVIDED BY OTHERS

SPIRIT VALLEY CENTRAL DRIVE (40'w PUBLIC)

SPIRIT VALLEY EAST DRIVE (40'w PUBLIC)



ADJ LOT 10
 MULD PROPERTIES LLC
 DB. 20076, PG. 3070
 LOC. NO. 17823087
 612 SPIRIT VALLEY EAST DR
 11.3 AC
 SECTION PLAN
 PB 360 PG 231

PREPARED BY:
RAINBOW POINT PROPERTIES, LLC
 617 SPIRIT VALLEY EAST DRIVE
 CHESTERFIELD MISSOURI

SITE DEVELOPMENT SECTION PLANS FOR:

DATE: 04-23-14

GEORGE M. STOCK E-25116
 CIVIL ENGINEER
 CERTIFICATE OF AUTHORITY
 NUMBER: 00995

REVISIONS:

NO.	DATE	DESCRIPTION

DRAWN BY: E.J.F. CHECKED BY: G.M.S.
 DATE: 04/23/14 JOB NO.: 214-5281
 CREA BY: G.M.S. SHEET #:
 ELC. NO. # IMV. NO. #

MO-00

SHEET TITLE:
PHOTOMETRIC PLAN

SHEET NO.:
SDSP-3

227 Chesterfield Business Parkway
 St. Louis, MO 63005 PH: (636) 592-3000 FAX: (636) 592-3000
 e-mail: gmuir@stockinc.com Web: www.stockinc.com

STOCK & ASSOCIATES
 Consulting Engineers, Inc.



Job Name:
Lot 16 Spirit Valley

Catalog Number:
MSV-A4-P40-V3P-F-Q-DB-L

Type:
S3-HS

Notes:

LEC-STL14-40999

MSV SERIES
MSV
M - P U L S I V E ®

Cat. #		Approvals
Job	Type	

SPAULDING
LIGHTING

APPLICATIONS

- Malls, retail complexes, industrial sites or any large area lighting project where superior performance, design flexibility, and value are a must

SPECIFICATIONS

- Lightweight, rugged, one-piece formed and welded aluminum for smooth wall construction and weatherproofing. Pre-drilled for arm mounting. Decorative embossed band and reveal colors available
- Extruded aluminum door frame with rigid corner bracing and die cast zinc latches for tool-free entry (flat glass lens). Formed aluminum doorframe (convex lens) with stainless steel, Knurled head thumb screw design for tool-free entry. Quality high temperature rated extruded silicone gasket seals out insects, dirt and moisture. Tempered flat glass lens provides impact and thermal shock resistance and a sharp full cutoff classification. Impact and thermal shock resistant convex lens provides improved light level uniformity and broadened luminaire spacing

- Vertical and horizontal lamp orientations available: IES types I, II, III, IV, and V distributions. V1P, V3P, V5P and H5P reflectors are fully segmented. V4 and H4 reflectors are multi-piece design. H3 and H5 reflectors are hydroformed. All reflectors are rotatable
- Spider mount has four twin-tube arms attaching housing to pole top fitter. Yoke mount has two square arms securing housing to pole top fitter
- Extruded aluminum arms in 4" and 10" lengths along with multiple adapters provide mounting flexibility.
- Mogul porcelain socket, pulse rated, with spring-loaded, nickel-plated center contact and reinforced lamp grip screw shell
- CWA type, HPF ballast, starting rated at -20°F (-40°F for HPS)
- Durable Lektrocote® TGIC thermoset polyester powder coat paint finish assures long life and maintenance-free service

LISTINGS/CERTIFICATIONS

- Listed to UL1598 for use in wet locations
- IDA fixture seal of approval.

	FLAT GLASS		CONVEX GLASS			
	A	B	C	EPA	Weight	
FLAT	15"	21"	N/A	2.8 ft. ^{2*}	68 lbs	
	381 mm	533 mm		0.35m ²	30.6 kg	
CONVEX	14 1/2"	21" sq.	12"	2.4 ft. ²	63 lbs	
	368 mm	533 mm	374 mm	0.2m ²	28.6 kg	

NOTE: EPA and weight values do not include mounting arm

* With the 4" arm the EPA is 2.8ft.².

	SPIDER MOUNT		YOKE MOUNT			
	C	D	Flat	EPA	Weight	
SPIDER	33 11/16"	36 1/2"	0.5 ft. ²	9 lbs		
	856 mm	928 mm	0.15m ²	4.1 kg		
YOKE	35 3/16"	33 11/16"	1.6 ft. ²	11 lbs		
	894 mm	856 mm	0.49m ²	5.0kg		



ORDERING EXAMPLE: MSV-A4-P1K-V5P-F-5-DB-RPA4

ORDERING INFORMATION

MSV - [] - [] - [] - [] - [] - [] - [] - []

SERIES	SOURCE/WATTAGE	LAMP ORIENT./DISTR.	LENS	COLOR	OPTIONS
MSV M-Pulsive	METAL HALIDE H1K ¹⁴ 1000w (BT-37)	V1P Vert. I - segmented	F Flat glass	DB Dark Bronze (textured)	F(X) ⁶ Fusing (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 5-480, 6-347)
MOUNT A4 Arm mount (includes 4" rigid arm)	SUPER METAL HALIDE MS1K ¹⁴ 1000w (BT-37)	V3P Vert. III - segmented	C ⁸ Convex glass	BL Black (textured)	PR(X) ¹² Photo cell receptacle (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 5-480, 6-347)
A10 ¹¹ Arm mount (includes 10" rigid arm)	PULSE START METAL HALIDE P17 175w (ED-28)	V4 ⁶ Vert. IV - multi-piece		WH White (textured)	P(X) ^{4,5} Photo button (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 6-347)
WB Wall bracket (arm not required or included)	P25 250w (ED28)	V5P Vert. V (square) - segmented		PS Platinum Silver (smooth)	RPA2 Round pole adapter (2 3/4 - 3 1/8")
WBA4 Wall bracket with 4" rigid arm	P32 320w (ED28)	H3 ^{2,12,13} Horiz. III - hydroformed		RD Red (smooth) (premium color)	RPA3 Round pole adapter (3 1/4 - 3 3/4")
WBA10 Wall bracket with 10" rigid arm	P35 350w (ED28)	H4 ² Horiz. IV - multi-piece		FG Forest Green (textured, premium color)	RPA4 Round pole adapter (3 7/8 - 4 1/2")
O No arm or wall bracket (only order without arm or wall bracket when they are ordered as an accessory)	P40 400w (ED-37)	H5 ^{2,12,13} Horiz. V (square) - hydroformed		CC Custom Color (consult factory)	RPA5 Round pole adapter (5")
ST Spider mount (2 3/8" tenon)	P45 450w (BT-37)	H5P ² Horiz. V (square) - segmented			RPA6 Round pole adapter (6")
YT Yoke mount (2 3/8" tenon)	P75 750w (BT-37)				QZ ⁵ Quartz RS with lamp
	P1K ¹⁴ 1000w (BT-37)				VG Polycarbonate vandal guard
	HIGH PRESSURE SODIUM				R(XX) ⁷ Reveal (EB option must be chosen also); Replace XX with color
	S25 250w (ED-18)				EB Embossed band
	S40 400w (ED-18)				L Lamp
	S60 ¹ 600w (T-14)				
	S75 ¹ 750w (BT-37)				
	S1K 1000w (ED-37)				
			VOLTAGE		
			1 ¹⁰ 120V		
			2 ¹⁰ 208V	Q ³ Quad-Tap® 120/208/240/277V	
			3 ¹⁰ 240V	5 480V	
			4 ¹⁰ 277V	T ³ Tri-Tap® 120/277/347V	
			F ¹⁰ 347V	E 50Hz 220/240V	
				V ^{3,9} Five-Tap 120/208/240/277/480V	
				O No Ballast	

1 Must specify Q, 5, or T voltage. Available voltage tap on ballast may vary from catalog. **Must specify wiring prep with options**
 2 Flat lens configurations only for horizontal lamp orientation
 3 Factory wired for highest voltage unless specified
 4 400w maximum
 5 Not available with 50 Hz ballast, 600w and 750w HPS, and convex lens with 1000w HPS
 6 Not available with convex lens and 1000w HPS or 1000w with yoke or spider mount
 7 Reveal selection requires EB - embossed band option
 8 Vertical lamp only
 9 Only available with 400w, 350w, 320w, and 250w
 10 Only available with 1000w PSMH, 600w HPS, and 750w HPS
 11 Required for 90° and 120° configurations
 12 Not available with 1000w yoke or spider mount
 13 Not available with 1000w H1K, MS1K, P1K, S1K
 14 GE or Sylvania BT37 lamps recommended for horizontal distributions

NOTE: All poles to be drilled with #2 pattern



Job Name:
Lot 16 Spirit Valley

Catalog Number:
MSV-A4-P40-V3P-F-Q-DB-L

Type:
S3-HS

Notes:

LEC-STL14-40999

SPECIFICATIONS

HOUSING Die-formed rectilinear housing to have continuous corner welds creating a seamless one-piece enclosure. Housing material to be heavy gauge low copper aluminum alloy. Door assembly to recess completely within luminaire housing creating evenly spaced reveal and floating door appearance.

DOOR/LENS FLAT LENS DESIGN: Extruded aluminum doorframe for tempered flat glass lens design to have 45° miter cut corners with internal corner key brackets for rigid support. Finish to be anodized with natural aluminum color. Tool-free entry design provided by corrosion-resistant, spring-loaded die cast zinc thumb latches (one per corner). Extruded silicone gasket profile to positively seal tempered glass lens to doorframe and doorframe to luminaire housing ensuring a contaminant free environment. Complete removal of the door assembly is achievable without tools. CONVEX LENS DESIGN: Die formed aluminum doorframe with impact and thermal-shock resistant convex lens, vulcanized one-piece extruded silicone gasket, and tool-free entry with two Knurled head stainless steel screws. Two additional corrosion-resistant treated screws provide door hinging and two additional points of attachment for equal gasket compression. Matching TGIC thermost polyester powder paint finish to match the luminaire housing color.

MOUNTING The luminaire housing shall attach to all mounting hardware via two 1/2" diameter bolts/rods. Mounting options to include rigid arm assemblies, knuckled arm assemblies for flat surfaces, knuckled arm assemblies for 2 3/8" OD tenon, wall bracket adapter, and round pole adapters ensuring maximum luminaire versatility. All mounting accessories should include gasket between the housing and accessory.

OPTICS The luminaire should be available in both vertical and horizontal lamp orientations. All optical assemblies are to be field rotatable in 90° increments. All flat glass configurations are to be IES – Full Cutoff classified. Internal house side shielding to be available with horizontal Type III distribution and field installable.

ELECTRICAL Available HID wattage range of 250 to 1000 watts from Metal Halide, Pulse Start Metal Halide, High Output Super Metal Halide, and High Pressure Sodium sources. Additional options include fusing, photocell cell control, and quartz restrike lamp.

FINISH TGIC thermost polyester powder paint finish applied at nominal 2.5 mil thickness. Prior to painting all luminaires and mounting accessories should be thoroughly cleaned with acid and alkaline cleaners followed by the application of a chromate conversion coating.

LISTINGS/CERTIFICATION UL1598 approved and CSA certified for outdoor use in wet locations

MSV EPA VALUES

Mounting Logic for Pole	Configuration	Flat Lens w/ 4" Arm	Flat Lens w/ 10" Arm	Convex Lens w/ 4" Arm	Convex Lens w/ 10" Arm
A	SINGLE	2.8	3	2.5	2.7
B	TWIN AT 90°	N/A	5.3	N/A	4.7
C	TWIN AT 180°	5.6	6	5	5.4
D	TRIPLE AT 90°	N/A	8.6	N/A	7.5
E	TRIPLE AT 120°	N/A	8.4	7.1	7.3
F	QUAD AT 90°	N/A	8.8	N/A	7.7

ACCESSORIES

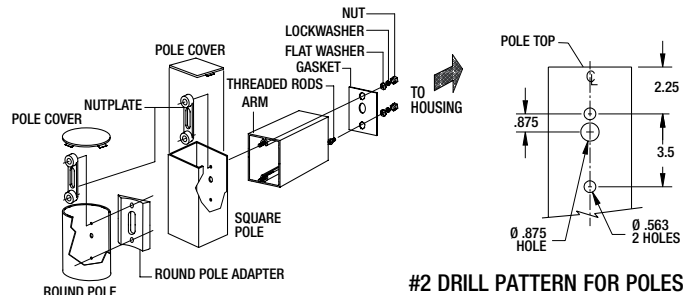
(Must be ordered separately. For field installation.)

Catalog #	Description
MSV-FGGS-2	Extreme Glare Shield for flat glass units only (mounts to housing); restricts lighting to any one side of fixture; black finish standard
MSV-GS	Glare Shield for sag glass units only; restricts light to any one side of fixture, black finish standard
MSV-PVG	Polycarbonate Vandal Guard
FDMLH	Flush Mount Kit - direct mount luminaire hardware kit
F-RPA2-XX^{1,2}	Round Pole Adapter (2 3/4 - 3 1/8")
F-RPA3-XX^{1,2}	Round Pole Adapter (3 1/4 - 3 3/4")
F-RPA4-XX^{1,2}	Round Pole Adapter (3 5/8 - 4 1/2")
F-RPA5-XX^{1,2}	Round Pole Adapter (5")
F-RPA6-XX^{1,2}	Round Pole Adapter (6")
WB-CR-XX¹	Wall Bracket
ARM-F-K-TA-XX¹	Tenon Arm (single) adjustable (2 3/8" O.D. tenon)
ARM-F-TK-TA-XX¹	Tenon Arm (double 180°) adjustable (2 3/8" O.D. tenon)
ARM-F-K-S-XX^{1,2}	Adjustable Arm
ARM-F-4-S-XX^{1,2}	4" Rigid Straight Arm
ARM-F-10-S-XX^{1,2}	10" Rigid Straight Arm
SETA-XX^{1,2}	4" Square Pole Tenon Adapter (4 @ 90°) (2 3/8" OD tenon)
RETA-XX^{1,2}	4" Round Pole Tenon Adapter (4 @ 90°) (2 3/8" OD tenon)
TETA-XX^{1,2}	Three sided Pole Tenon Adapter (3 @ 120°)

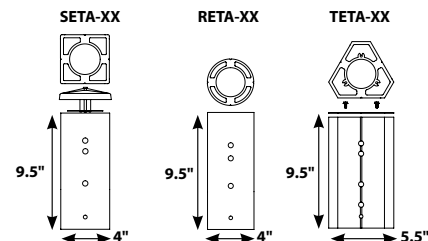
1 Replace **XX** with color choice, eg.: **DB** for Dark Bronze.
2 When ordering poles, specify Pole Drill Pattern #2.

PHOTOCONTROL EQUIPMENT

CATALOG #	DESCRIPTION
PTL-1	Photocontrol - Twist-Lock Cell (120V)
PTL-8	Photocontrol - Twist-Lock Cell (120-277V)
PTL-5	Photocontrol - Twist-Lock Cell (480V)
PTL-6	Photocontrol - Twist-Lock Cell (347V)
PSC	Shorting Cap - Twist-Lock



#2 DRILL PATTERN FOR POLES



Due to our continued efforts to improve our products, product specifications are subject to change without notice.

SPAULDING
LIGHTING

Spaulding Lighting • 701 Millennium Boulevard • Greenville, SC 29607 • PHONE: 864-678-1000

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Job Name:
Lot 16 Spirit Valley

Catalog Number:
MSV-FG-GS-1

Notes:

Type:
S3-HS

LEC-STL14-40999

SPECIFICATIONS

HOUSING Die-formed rectilinear housing to have continuous corner welds creating a seamless one-piece enclosure. Housing material to be heavy gauge low copper aluminum alloy. Door assembly to recess completely within luminaire housing creating evenly spaced reveal and floating door appearance.

DOOR/LENS FLAT LENS DESIGN: Extruded aluminum doorframe for tempered flat glass lens design to have 45° miter cut corners with internal corner key brackets for rigid support. Finish to be anodized with natural aluminum color. Tool-free entry design provided by corrosion-resistant, spring-loaded die cast zinc thumb latches (one per corner). Extruded silicone gasket profile to positively seal tempered glass lens to doorframe and doorframe to luminaire housing ensuring a contaminant free environment. Complete removal of the door assembly is achievable without tools. CONVEX LENS DESIGN: Die formed aluminum doorframe with impact and thermal-shock resistant convex lens, vulcanized one-piece extruded silicone gasket, and tool-free entry with two Knurled head stainless steel screws. Two additional corrosion-resistant treated screws provide door hinging and two additional points of attachment for equal gasket compression. Matching TGIC thermost polyester powder paint finish to match the luminaire housing color.

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OPTICS The luminaire should be available in both vertical and horizontal lamp orientations. All optical assemblies are to be field rotatable in 90° increments. All flat glass configurations are to be IES – Full Cutoff classified. Internal house side shielding to be available with horizontal Type III distribution and field installable.

ELECTRICAL Available HID wattage range of 250 to 1000 watts from Metal Halide, Pulse Start Metal Halide, High Output Super Metal Halide, and High Pressure Sodium sources. Additional options include fusing, photocell cell control, and quartz restrike lamp.

FINISH TGIC thermost polyester powder paint finish applied at nominal 2.5 mil thickness. Prior to painting all luminaires and mounting accessories should be thoroughly cleaned with acid and alkaline cleaners followed by the application of a chromate conversion coating.

LISTINGS/CERTIFICATION UL1598 approved and CSA certified for outdoor use in wet locations

MSV EPA VALUES

Mounting Logic for Pole	Configuration	Flat Lens w/ 4" Arm	Flat Lens w/ 10" Arm	Convex Lens w/ 4" Arm	Convex Lens w/ 10" Arm
A	SINGLE	2.8	3	2.5	2.7
B	TWIN AT 90°	N/A	5.3	N/A	4.7
C	TWIN AT 180°	5.6	6	5	5.4
D	TRIPLE AT 90°	N/A	8.6	N/A	7.5
E	TRIPLE AT 120°	N/A	8.4	7.1	7.3
F	QUAD AT 90°	N/A	8.8	N/A	7.7

ACCESSORIES

(Must be ordered separately. For field installation.)

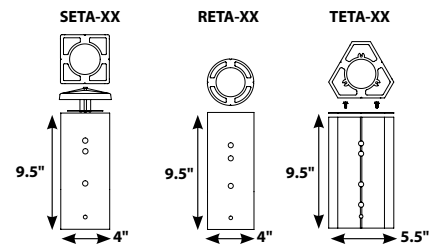
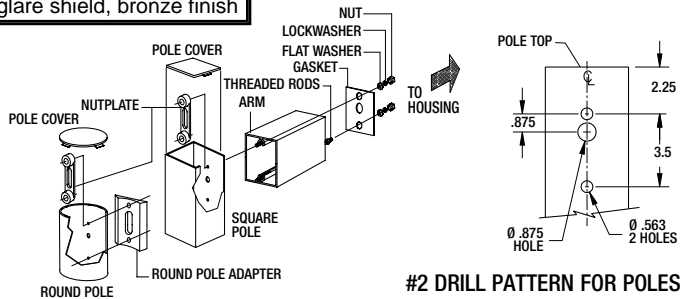
Catalog #	Description
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MSV-GS	Glare Shield for sag glass units only; restricts light to any one side of fixture, black finish standard
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F-RPA5-XX^{1,2}	Round Pole Adapter (5")
F-RPA6-XX^{1,2}	Round Pole Adapter (6")
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RETA-XX^{1,2}	4" Round Pole Tenon Adapter (4 @ 90°) (2 3/8" OD tenon)
TETA-XX^{1,2}	Three sided Pole Tenon Adapter (3 @ 120°)

1 Replace **XX** with color choice, eg.: **DB** for Dark Bronze.
2 When ordering poles, specify Pole Drill Pattern #2.

PHOTOCONTROL EQUIPMENT

CATALOG #	DESCRIPTION
PTL-1	Photocontrol - Twist-Lock Cell (120V)
PTL-8	Photocontrol - Twist-Lock Cell (120-277V)
PTL-5	Photocontrol - Twist-Lock Cell (480V)
PTL-6	Photocontrol - Twist-Lock Cell (347V)
PSC	Shorting Cap - Twist-Lock

MSV-FGGS-1 = glare shield, bronze finish



Due to our continued efforts to improve our products, product specifications are subject to change without notice.



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**SSS SERIES
POLES**
SQUARE STRAIGHT STEEL

Cat. #		Approvals
Job	Type	

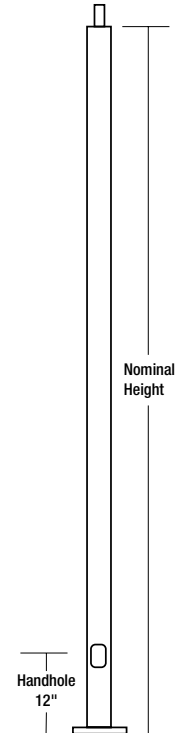
**SPAULDING
LIGHTING**

APPLICATIONS

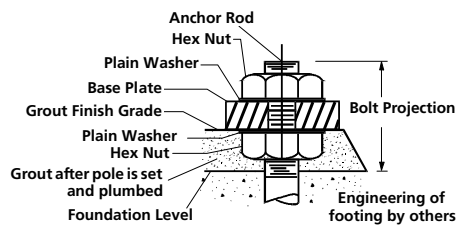
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location.

FEATURES

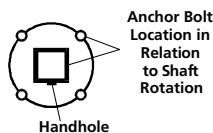
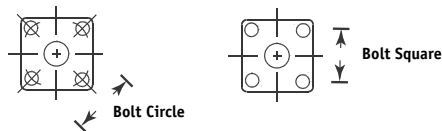
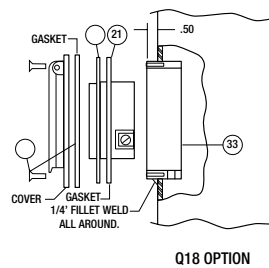
- **SHAFT:** One-piece straight steel with square cross section, flat sides and minimum 0.36" radius on all corners. Minimum yield of 46,000 psi (ASTM-A500, Grade B). Longitudinal weld seam to appear flush with shaft side wall. Steel base plate with axial bolt circle slots welded flush to pole shaft having minimum yield of 36,000 psi (ATM-A36).
- **BASE COVER:** Two-piece square aluminum base cover included standard.
- **POLE CAP:** Pole shaft covered with removable non-metallic cover when applicable. Tenon and post-top configurations also available.
- **HAND HOLE:** Rectangular steel-reinforced hand hole (2.5" x 4.5"). Pole grounding lug located behind gasketed cover.
- **ANCHOR BOLTS:** Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (modified ASTM-A36). Galvanized hardware with two washers/nuts per bolt for leveling meet or exceed bolt strength.
- **FINISH:** Durable Lektrocote® TGIC thermoset polyester powder coat paint finish with nominal 3.0 mil thickness. Zinc-rich powder paint prime applied over "white metal" steel substrate cleaned via mechanical shot blast method. Decorative finish coat available in seven standard colors. Custom colors available. RAL number preferable. Internal protective coating available.



BASE DETAIL



**15 AMP GFCI
RECEPTACLE & COVER**





Job Name:
Lot 16 Spirit Valley

Catalog Number:
SSS-18-40-1-A2-DB

Type:
S3-HS

Notes:

LEC-STL14-40999

ORDERING INFORMATION

S - S - S - 25 - 40 - 1 - TA - DB

|
|
|
|
|
|
|
|
|

Cross Section Style Material Nominal Length Nominal Shaft Dia. Shaft Thickness Mounting Type Finish

Catalog Number	Pole Ht.		Nominal Shaft Dim.	Wind Load Rating ¹					Wall Thick.	Bolt Circle (Sug.)	Bolt Circle	Bolt Sq.	Base Plate (sq.)	Anchor Bolt Size	Bolt Proj.	Pole Wt (lbs)
	ft	m		70 MPH	80 MPH	90 MPH	100 MPH	120 MPH								
SSS-10-40-1-XX-XX	10	3.0	4"	25	25	22	17	11.8	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	91
SSS-10-50-1-XX-XX	10	3.0	5"	25	25	25	23	15	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	106
SSS-12-40-1-XX-XX	12	3.7	4"	25	21	16	13.0	8.8	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	104
SSS-12-50-1-XX-XX	12	3.7	5"	25	25	23	18	11.8	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	122
SSS-14-40-1-XX-XX	14	4.3	4"	24	18	14.2	11.0	6.8	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	116
SSS-14-40-7-XX-XX	14	4.3	4"	25	25	23	18	12.2	.179"	11"	8 1/2 - 12"	6 - 8.4"	11 x 1"	3/4 x 30 x 3"	4"	158
SSS-14-50-1-XX-XX	14	4.3	5"	25	24	19	14.4	9.0	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	138
SSS-16-40-1-XX-XX	16	4.9	4"	16	12.2	9.0	6.8	3.8	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	128
SSS-16-40-7-XX-XX	16	4.9	4"	25	20	15	12.2	7.6	.179"	11"	8 1/2 - 12"	6 - 8.4"	11 x 1"	3/4 x 30 x 3"	4"	176
SSS-16-50-1-XX-XX	16	4.9	5"	22	16	12.2	9.2	5.2	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	153
SSS-16-50-7-XX-XX	16	4.9	5"	25	25	24	19	12.4	.179"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	214
SSS-18-40-1-XX-XX	18	5.5	4"	13.8	10.0	7.2	5.2	2.4	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	147
SSS-18-40-7-XX-XX	18	5.5	4"	23	17	13.0	10.0	6.0	.179"	11"	10 - 13.5"	7.1 - 9.5"	11 x 1"	3/4 x 30 x 3"	4"	201
SSS-18-50-1-XX-XX	18	5.5	5"	18	13.2	9.6	7.0	3.4	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	175
SSS-18-50-7-XX-XX	18	5.5	5"	25	25	20	16	9.8	.179"	11"	8 1/2 - 12"	6 - 8.4"	12 x 1"	3/4 x 30 x 3"	4"	243
SSS-20-40-1-XX-XX	20	6.1	4"	11.4	8.0	5.6	3.8	1.4	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	160
SSS-20-40-7-XX-XX	20	6.1	4"	19	14.6	10.8	8.0	4.4	.179"	11"	8 1/2 - 12"	6 - 8.4"	11 x 1"	3/4 x 30 x 3"	4"	225
SSS-20-50-1-XX-XX	20	6.1	5"	15	10.8	7.6	5.2	2.0	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	191
SSS-20-50-7-XX-XX	20	6.1	5"	25	23	17	13.2	7.6	.179"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	266
SSS-20-60-7-XX-XX	20	6.1	6"	25	25	24	18	11.2	.179"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1 x 36 x 4"	4"	312
SSS-25-40-1-XX-XX	25	7.6	4"	7.0	4.2	2.2	NR	NR	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	190
SSS-25-40-7-XX-XX	25	7.6	4"	13.4	9.4	6.4	4.2	1.4	.179"	11"	8.5 - 12"	6 - 8.4"	11 x 1"	3/4 x 30 x 3"	4"	266
SSS-25-50-1-XX-XX	25	7.6	5"	9.6	6.0	3.4	1.4	NR	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	1 x 36 x 4"	4"	231
SSS-25-50-7-XX-XX	25	7.6	5"	22	15	11.2	7.8	3.4	.179"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	1 x 36 x 4"	4"	324
SSS-25-50-3-XX-XX	25	7.6	5"	25	22	16	12.4	6.6	.250"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	1 x 36 x 4"	4"	437
SSS-25-60-7-XX-XX	25	7.6	6"	25	22	16	11.6	5.6	.179"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1 x 36 x 4"	4"	404
SSS-27-40-7-XX-XX	27	8.2	4"	11.4	7.8	5.0	3.0	NR	.179"	11"	8.5 - 12"	6 - 8.4"	11 x 1"	1 x 36 x 4"	4"	290
SSS-30-40-7-XX-XX	30	9.1	4"	8.2	5.0	2.8	1.2	NR	.179"	11"	8.5 - 12"	6 - 8.4"	11 x 1"	1 x 36 x 4"	4"	313
SSS-30-50-7-XX-XX	30	9.1	5"	14.2	9.4	6.0	3.4	NR	.179"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	1 x 36 x 4"	4"	398
SSS-30-50-3-XX-XX	30	9.1	5"	20	14.6	10.2	6.8	2.4	.250"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	1 x 36 x 4"	4"	537
SSS-30-60-7-XX-XX	30	9.1	6"	20	13.8	9.2	5.8	1.2	.179"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1 x 36 x 4"	4"	467
SSS-30-60-3-XX-XX	30	9.1	6"	25	24	17	12.8	6.2	.250"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1.25 x 42 x 6"	4"	630
SSS-35-60-7-XX-XX	35	10.7	6"	14.2	8.4	4.6	1.6	NR	.179"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1 x 36 x 4"	4"	538
SSS-35-60-3-XX-XX	35	10.7	6"	25	17	11.6	7.4	1.8	.250"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1.25 x 42 x 6"	4"	726
SSS-40-60-7-XX-XX	40	12.2	6"	9.0	4.0	NR	NR	NR	.179"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1 x 36 x 4"	4"	614
SSS-40-60-3-XX-XX	40	12.2	6"	18	11.8	6.8	3.2	NR	.250"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1.25 x 42 x 6"	4"	802

¹ Allowable EPA with 1.3 gust factor. To determine max. pole loading weight, multiply allowable EPA by 30 lbs.
NOTE: Factory supplied template must be used when setting anchor bolts. Hubbell Lighting will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

COMPLETE PART NUMBER REQUIRES SHAFT ABOVE PLUS MOUNTING TYPE, FINISH & APPROPRIATE OPTIONS BELOW

OPTION ORIENTATION

MOUNTING TYPE

- AX'** Side - Single
- BX'** Side - Double at 90°
- CX'** Side - Double at 180°
- DX'** Side - Triple at 90°
- FX'** Side - Quad at 90°
- P1** Pad Mount - Spider Type
- P2** Pad Mount - Yoke Type
- P3** Pad Mount - Yoke Type (Proformer XL only)
- TA** Tenon (2.375" OD)
- TB** Tenon (2.875" OD)
- TR²** Removable Tenon (2.375 x 4.25)
- CD** Concord Luminaire
- OT** No drilling (includes pole cap)

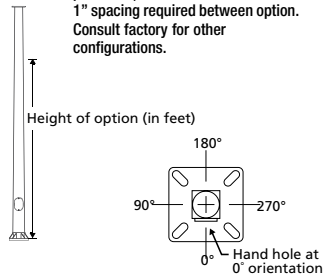
FINISH

- DB** Dark Bronze
- BL** Black
- WH** White
- GR** Gray
- PS** Platinum Silver
- RD** Red (Premium Color)
- FG** Forest Green (Premium Color)
- CC** Custom Color (Consult Factory)
- PR** Primer Only

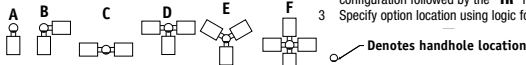
OPTIONS

- Q55** Internal Coating (Hubbell Seal)
- Q18³** 15 Amp GFCI Receptacle and Cover
- Q22²** Extra Handhole
- Q26³** .5" Coupling
- Q27³** .75" Coupling
- Q30³** 2" Coupling
- Q32²** Mid-pole Luminaire Bracket
- Q40** Vibration Damper
- LAB** Less Anchor Bolts
- CSA** CSA Certified (consult factory)

Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option Q26 should be ordered as: **SSS-20-40-1-TA-DB-Q26-0-15** (.5" coupling on the handhole/arm side of pole, 15 feet up from the pole base)
1" spacing required between option. Consult factory for other configurations.



- 1 DRILL PATTERNS: Replace **X** with
1 = Spaulding luminaires with a straight pole (4-bolt),
2 = Cimarron CR1, MSV and Raven Series luminaires,
4 = MSS & DS luminaires,
5 = Spaulding Detroit III luminaires,
6 = DM luminaires
- 2 Removable tenon used in conjunction with side arm mounting. First specify desired arm configuration followed by the "TR" notation. Example: **SSS-25-40-7-C6-TR-DB**
- 3 Specify option location using logic found on cover.



Due to our continued efforts to improve our products, product specifications are subject to change without notice.



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For more information visit our web site: www.spauldinglighting.com



Job Name:
Lot 16 Spirit Valley

Catalog Number:
MSV-A4-P40-V5P-F-Q-DB-L

Type:
S5

Notes:

LEC-STL14-40999

MSV SERIES
MSV
M - P U L S I V E ®

Cat. #		Approvals
Job	Type	

SPAULDING
LIGHTING

APPLICATIONS

- Malls, retail complexes, industrial sites or any large area lighting project where superior performance, design flexibility, and value are a must

SPECIFICATIONS

- Lightweight, rugged, one-piece formed and welded aluminum for smooth wall construction and weatherproofing. Pre-drilled for arm mounting. Decorative embossed band and reveal colors available
- Extruded aluminum door frame with rigid corner bracing and die cast zinc latches for tool-free entry (flat glass lens). Formed aluminum doorframe (convex lens) with stainless steel, Knurled head thumb screw design for tool-free entry. Quality high temperature rated extruded silicone gasket seals out insects, dirt and moisture. Tempered flat glass lens provides impact and thermal shock resistance and a sharp full cutoff classification. Impact and thermal shock resistant convex lens provides improved light level uniformity and broadened luminaire spacing

- Vertical and horizontal lamp orientations available: IES types I, II, III, IV, and V distributions. V1P, V3P, V5P and H5P reflectors are fully segmented. V4 and H4 reflectors are multi-piece design. H3 and H5 reflectors are hydroformed. All reflectors are rotatable
- Spider mount has four twin-tube arms attaching housing to pole top fitter. Yoke mount has two square arms securing housing to pole top fitter
- Extruded aluminum arms in 4" and 10" lengths along with multiple adapters provide mounting flexibility.
- Mogul porcelain socket, pulse rated, with spring-loaded, nickel-plated center contact and reinforced lamp grip screw shell
- CWA type, HPF ballast, starting rated at -20°F (-40°F for HPS)
- Durable Lektrocote® TGIC thermoset polyester powder coat paint finish assures long life and maintenance-free service

LISTINGS/CERTIFICATIONS

- Listed to UL1598 for use in wet locations
- IDA fixture seal of approval.

	FLAT GLASS		CONVEX GLASS			
	A	B	C	EPA	Weight	
FLAT	15"	21"	N/A	2.8 ft. ^{2*}	68 lbs	
	381 mm	533 mm		0.35m ²	30.6 kg	
CONVEX	14 1/2"	21" sq.	12"	2.4 ft. ²	63 lbs	
	368 mm	533 mm	374 mm	0.2m ²	28.6 kg	

NOTE: EPA and weight values do not include mounting arm

* With the 4" arm the EPA is 2.8ft.².

	SPIDER MOUNT		YOKE MOUNT			
	C	D	Flat	EPA	Weight	
SPIDER	33 11/16"	36 1/2"	0.5 ft. ²	9 lbs		
	856 mm	928 mm	0.15m ²	4.1 kg		
YOKE	35 3/16"	33 11/16"	1.6 ft. ²	11 lbs		
	894 mm	856 mm	0.49m ²	5.0kg		



ORDERING EXAMPLE: MSV-A4-P1K-V5P-F-5-DB-RPA4

ORDERING INFORMATION

MSV - [] - [] - [] - [] - [] - [] - [] - []

SERIES	SOURCE/WATTAGE	LAMP ORIENT./DISTR.	LENS	COLOR	OPTIONS
MSV M-Pulsive	METAL HALIDE H1K ¹⁴ 1000w (BT-37)	V1P Vert. I - segmented	F Flat glass	DB Dark Bronze (textured)	F(X)⁶ Fusing (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 5-480, 6-347)
MOUNT	SUPER METAL HALIDE MS1K ¹⁴ 1000w (BT-37)	V3P Vert. III - segmented	C⁸ Convex glass	BL Black (textured)	PR(X)¹² Photo cell receptacle (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 5-480, 6-347)
A4 Arm mount (includes 4" rigid arm)	PULSE START METAL HALIDE P17 175w (ED-28)	V4⁶ Vert. IV - multi-piece		WH White (textured)	P(X)^{4,5} Photo button (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 6-347)
A10¹¹ Arm mount (includes 10" rigid arm)	P25 250w (ED28)	V5P Vert. V (square) - segmented		PS Platinum Silver (smooth)	RPA2 Round pole adapter (2 3/4 - 3 1/8")
WB Wall bracket (arm not required or included)	P32 320w (ED28)	H3^{2,12,13} Horiz. III - hydroformed		RD Red (smooth) (premium color)	RPA3 Round pole adapter (3 1/4 - 3 3/4")
WBA4 Wall bracket with 4" rigid arm	P35 350w (ED28)	H4² Horiz. IV - multi-piece		FG Forest Green (textured, premium color)	RPA4 Round pole adapter (3 7/8 - 4 1/2")
WBA10 Wall bracket with 10" rigid arm	P40 400w (ED-37)	H5^{2,12,13} Horiz. V (square) - hydroformed		CC Custom Color (consult factory)	RPA5 Round pole adapter (5")
0 No arm or wall bracket (only order without arm or wall bracket when they are ordered as an accessory)	P45 450w (BT-37)	H5P² Horiz. V (square) - segmented			RPA6 Round pole adapter (6")
ST Spider mount (2 3/8" tenon)	P75 750w (BT-37)				QZ⁵ Quartz RS with lamp
YT Yoke mount (2 3/8" tenon)	P1K¹⁴ 1000w (BT-37)				VG Polycarbonate vandal guard
	HIGH PRESSURE SODIUM				R(XX)⁷ Reveal (EB option must be chosen also); Replace XX with color
	S25 250w (ED-18)				EB Embossed band
	S40 400w (ED-18)				L Lamp
	S60¹ 600w (T-14)				
	S75¹ 750w (BT-37)				
	S1K 1000w (ED-37)				

1 Must specify Q, 5, or T voltage. Available voltage tap on ballast may vary from catalog. **Must specify wiring prep with options**
 2 Flat lens configurations only for horizontal lamp orientation
 3 Factory wired for highest voltage unless specified
 4 400w maximum
 5 Not available with 50 Hz ballast, 600w and 750w HPS, and convex lens with 1000w HPS
 6 Not available with convex lens and 1000w HPS or 1000w with yoke or spider mount
 7 Reveal selection requires EB - embossed band option
 8 Vertical lamp only
 9 Only available with 400w, 350w, 320w, and 250w
 10 Only available with 1000w PSMH, 600w HPS, and 750w HPS
 11 Required for 90° and 120° configurations
 12 Not available with 1000w yoke or spider mount
 13 Not available with 1000w H1K, MS1K, P1K, S1K
 14 GE or Sylvania BT37 lamps recommended for horizontal distributions

NOTE: All poles to be drilled with #2 pattern



Job Name:
Lot 16 Spirit Valley

Catalog Number:
MSV-A4-P40-V5P-F-Q-DB-L

Type:

S5

Notes:

LEC-STL14-40999

SPECIFICATIONS

HOUSING Die-formed rectilinear housing to have continuous corner welds creating a seamless one-piece enclosure. Housing material to be heavy gauge low copper aluminum alloy. Door assembly to recess completely within luminaire housing creating evenly spaced reveal and floating door appearance.

DOOR/LENS FLAT LENS DESIGN: Extruded aluminum doorframe for tempered flat glass lens design to have 45° miter cut corners with internal corner key brackets for rigid support. Finish to be anodized with natural aluminum color. Tool-free entry design provided by corrosion-resistant, spring-loaded die cast zinc thumb latches (one per corner). Extruded silicone gasket profile to positively seal tempered glass lens to doorframe and doorframe to luminaire housing ensuring a contaminant free environment. Complete removal of the door assembly is achievable without tools. CONVEX LENS DESIGN: Die formed aluminum doorframe with impact and thermal-shock resistant convex lens, vulcanized one-piece extruded silicone gasket, and tool-free entry with two Knurled head stainless steel screws. Two additional corrosion-resistant treated screws provide door hinging and two additional points of attachment for equal gasket compression. Matching TGIC thermost polyester powder paint finish to match the luminaire housing color.

MOUNTING The luminaire housing shall attach to all mounting hardware via two 1/2" diameter bolts/rods. Mounting options to include rigid arm assemblies, knuckled arm assemblies for flat surfaces, knuckled arm assemblies for 2 3/8" OD tenon, wall bracket adapter, and round pole adapters ensuring maximum luminaire versatility. All mounting accessories should include gasket between the housing and accessory.

OPTICS The luminaire should be available in both vertical and horizontal lamp orientations. All optical assemblies are to be field rotatable in 90° increments. All flat glass configurations are to be IES – Full Cutoff classified. Internal house side shielding to be available with horizontal Type III distribution and field installable.

ELECTRICAL Available HID wattage range of 250 to 1000 watts from Metal Halide, Pulse Start Metal Halide, High Output Super Metal Halide, and High Pressure Sodium sources. Additional options include fusing, photocell cell control, and quartz restrike lamp.

FINISH TGIC thermost polyester powder paint finish applied at nominal 2.5 mil thickness. Prior to painting all luminaires and mounting accessories should be thoroughly cleaned with acid and alkaline cleaners followed by the application of a chromate conversion coating.

LISTINGS/CERTIFICATION UL1598 approved and CSA certified for outdoor use in wet locations

MSV EPA VALUES

Mounting Logic for Pole	Configuration	Flat Lens w/ 4" Arm	Flat Lens w/ 10" Arm	Convex Lens w/ 4" Arm	Convex Lens w/ 10" Arm
A	SINGLE	2.8	3	2.5	2.7
B	TWIN AT 90°	N/A	5.3	N/A	4.7
C	TWIN AT 180°	5.6	6	5	5.4
D	TRIPLE AT 90°	N/A	8.6	N/A	7.5
E	TRIPLE AT 120°	N/A	8.4	7.1	7.3
F	QUAD AT 90°	N/A	8.8	N/A	7.7

ACCESSORIES

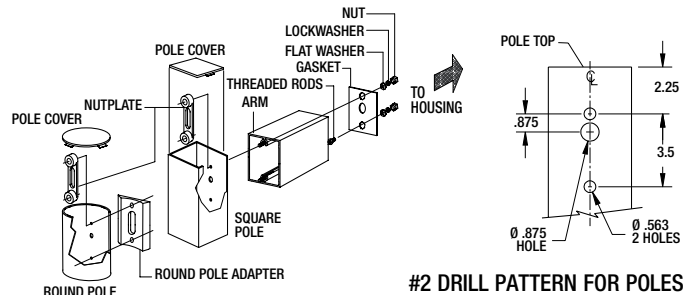
(Must be ordered separately. For field installation.)

Catalog #	Description
MSV-FGGS-2	Extreme Glare Shield for flat glass units only (mounts to housing); restricts lighting to any one side of fixture; black finish standard
MSV-GS	Glare Shield for sag glass units only; restricts light to any one side of fixture, black finish standard
MSV-PVG	Polycarbonate Vandal Guard
FDMLH	Flush Mount Kit - direct mount luminaire hardware kit
F-RPA2-XX^{1,2}	Round Pole Adapter (2 3/4 - 3 1/8")
F-RPA3-XX^{1,2}	Round Pole Adapter (3 1/4 - 3 3/4")
F-RPA4-XX^{1,2}	Round Pole Adapter (3 5/8 - 4 1/2")
F-RPA5-XX^{1,2}	Round Pole Adapter (5")
F-RPA6-XX^{1,2}	Round Pole Adapter (6")
WB-CR-XX¹	Wall Bracket
ARM-F-K-TA-XX¹	Tenon Arm (single) adjustable (2 3/8" O.D. tenon)
ARM-F-TK-TA-XX¹	Tenon Arm (double 180°) adjustable (2 3/8" O.D. tenon)
ARM-F-K-S-XX^{1,2}	Adjustable Arm
ARM-F-4-S-XX^{1,2}	4" Rigid Straight Arm
ARM-F-10-S-XX^{1,2}	10" Rigid Straight Arm
SETA-XX^{1,2}	4" Square Pole Tenon Adapter (4 @ 90°) (2 3/8" OD tenon)
RETA-XX^{1,2}	4" Round Pole Tenon Adapter (4 @ 90°) (2 3/8" OD tenon)
TETA-XX^{1,2}	Three sided Pole Tenon Adapter (3 @ 120°)

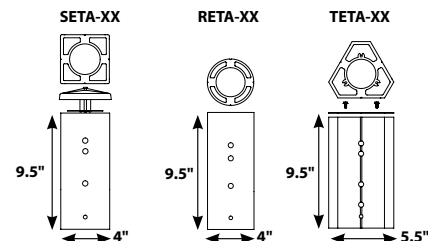
1 Replace **XX** with color choice, eg.: **DB** for Dark Bronze.
2 When ordering poles, specify Pole Drill Pattern #2.

PHOTOCONTROL EQUIPMENT

CATALOG #	DESCRIPTION
PTL-1	Photocontrol - Twist-Lock Cell (120V)
PTL-8	Photocontrol - Twist-Lock Cell (120-277V)
PTL-5	Photocontrol - Twist-Lock Cell (480V)
PTL-6	Photocontrol - Twist-Lock Cell (347V)
PSC	Shorting Cap - Twist-Lock



#2 DRILL PATTERN FOR POLES



Due to our continued efforts to improve our products, product specifications are subject to change without notice.

SPAULDING
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**SSS SERIES
POLES**
SQUARE STRAIGHT STEEL

Cat. #		Approvals
Job	Type	

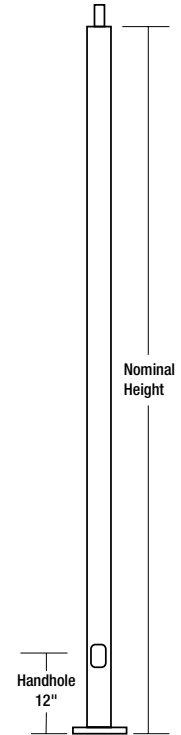
**SPAULDING
LIGHTING**

APPLICATIONS

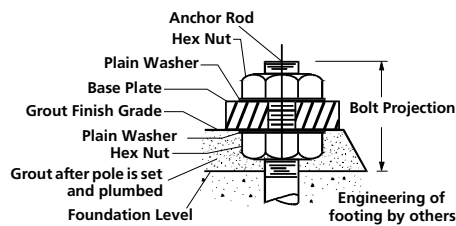
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location.

FEATURES

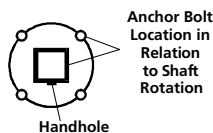
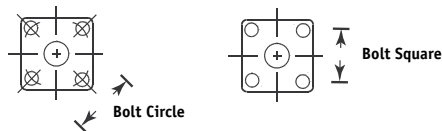
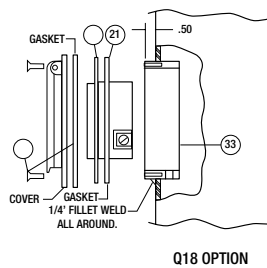
- **SHAFT:** One-piece straight steel with square cross section, flat sides and minimum 0.36" radius on all corners. Minimum yield of 46,000 psi (ASTM-A500, Grade B). Longitudinal weld seam to appear flush with shaft side wall. Steel base plate with axial bolt circle slots welded flush to pole shaft having minimum yield of 36,000 psi (ATM-A36).
- **BASE COVER:** Two-piece square aluminum base cover included standard.
- **POLE CAP:** Pole shaft covered with removable non-metallic cover when applicable. Tenon and post-top configurations also available.
- **HAND HOLE:** Rectangular steel-reinforced hand hole (2.5" x 4.5"). Pole grounding lug located behind gasketed cover.
- **ANCHOR BOLTS:** Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (modified ASTM-A36). Galvanized hardware with two washers/nuts per bolt for leveling meet or exceed bolt strength.
- **FINISH:** Durable Lektrocote® TGIC thermoset polyester powder coat paint finish with nominal 3.0 mil thickness. Zinc-rich powder paint prime applied over "white metal" steel substrate cleaned via mechanical shot blast method. Decorative finish coat available in seven standard colors. Custom colors available. RAL number preferable. Internal protective coating available.



BASE DETAIL



**15 AMP GFCI
RECEPTACLE & COVER**





Job Name:
Lot 16 Spirit Valley

Catalog Number:
SSS-18-40-1-A2-DB

Type:
S5

Notes:

LEC-STL14-40999

ORDERING INFORMATION

S - S - S - 25 - 40 - 1 - TA - DB

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|
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Cross Section
Style
Material
Nominal Length
Nominal Shaft Dia.
Shaft Thickness
Mounting Type
Finish

Catalog Number	Pole Ht.		Nominal Shaft Dim.	Wind Load Rating ¹					Wall Thick.	Bolt Circle (Sug.)	Bolt Circle	Bolt Sq.	Base Plate (sq.)	Anchor Bolt Size	Bolt Proj.	Pole Wt (lbs)
	ft	m		70 MPH	80 MPH	90 MPH	100 MPH	120 MPH								
SSS-10-40-1-XX-XX	10	3.0	4"	25	25	22	17	11.8	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	91
SSS-10-50-1-XX-XX	10	3.0	5"	25	25	25	23	15	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	106
SSS-12-40-1-XX-XX	12	3.7	4"	25	21	16	13.0	8.8	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	104
SSS-12-50-1-XX-XX	12	3.7	5"	25	25	23	18	11.8	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	122
SSS-14-40-1-XX-XX	14	4.3	4"	24	18	14.2	11.0	6.8	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	116
SSS-14-40-7-XX-XX	14	4.3	4"	25	25	23	18	12.2	.179"	11"	8 1/2 - 12"	6 - 8.4"	11 x 1"	3/4 x 30 x 3"	4"	158
SSS-14-50-1-XX-XX	14	4.3	5"	25	24	19	14.4	9.0	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	138
SSS-16-40-1-XX-XX	16	4.9	4"	16	12.2	9.0	6.8	3.8	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	128
SSS-16-40-7-XX-XX	16	4.9	4"	25	20	15	12.2	7.6	.179"	11"	8 1/2 - 12"	6 - 8.4"	11 x 1"	3/4 x 30 x 3"	4"	176
SSS-16-50-1-XX-XX	16	4.9	5"	22	16	12.2	9.2	5.2	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	153
SSS-16-50-7-XX-XX	16	4.9	5"	25	25	24	19	12.4	.179"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	214
SSS-18-40-1-XX-XX	18	5.5	4"	13.8	10.0	7.2	5.2	2.4	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	147
SSS-18-40-7-XX-XX	18	5.5	4"	23	17	13.0	10.0	6.0	.179"	11"	10 - 13.5"	7.1 - 9.5"	11 x 1"	3/4 x 30 x 3"	4"	201
SSS-18-50-1-XX-XX	18	5.5	5"	18	13.2	9.6	7.0	3.4	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	175
SSS-18-50-7-XX-XX	18	5.5	5"	25	25	20	16	9.8	.179"	11"	8 1/2 - 12"	6 - 8.4"	12 x 1"	3/4 x 30 x 3"	4"	243
SSS-20-40-1-XX-XX	20	6.1	4"	11.4	8.0	5.6	3.8	1.4	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	160
SSS-20-40-7-XX-XX	20	6.1	4"	19	14.6	10.8	8.0	4.4	.179"	11"	8 1/2 - 12"	6 - 8.4"	11 x 1"	3/4 x 30 x 3"	4"	225
SSS-20-50-1-XX-XX	20	6.1	5"	15	10.8	7.6	5.2	2.0	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	191
SSS-20-50-7-XX-XX	20	6.1	5"	25	23	17	13.2	7.6	.179"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	266
SSS-20-60-7-XX-XX	20	6.1	6"	25	25	24	18	11.2	.179"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1 x 36 x 4"	4"	312
SSS-25-40-1-XX-XX	25	7.6	4"	7.0	4.2	2.2	NR	NR	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	190
SSS-25-40-7-XX-XX	25	7.6	4"	13.4	9.4	6.4	4.2	1.4	.179"	11"	8.5 - 12"	6 - 8.4"	11 x 1"	3/4 x 30 x 3"	4"	266
SSS-25-50-1-XX-XX	25	7.6	5"	9.6	6.0	3.4	1.4	NR	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	1 x 36 x 4"	4"	231
SSS-25-50-7-XX-XX	25	7.6	5"	22	15	11.2	7.8	3.4	.179"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	1 x 36 x 4"	4"	324
SSS-25-50-3-XX-XX	25	7.6	5"	25	22	16	12.4	6.6	.250"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	1 x 36 x 4"	4"	437
SSS-25-60-7-XX-XX	25	7.6	6"	25	22	16	11.6	5.6	.179"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1 x 36 x 4"	4"	404
SSS-27-40-7-XX-XX	27	8.2	4"	11.4	7.8	5.0	3.0	NR	.179"	11"	8.5 - 12"	6 - 8.4"	11 x 1"	1 x 36 x 4"	4"	290
SSS-30-40-7-XX-XX	30	9.1	4"	8.2	5.0	2.8	1.2	NR	.179"	11"	8.5 - 12"	6 - 8.4"	11 x 1"	1 x 36 x 4"	4"	313
SSS-30-50-7-XX-XX	30	9.1	5"	14.2	9.4	6.0	3.4	NR	.179"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	1 x 36 x 4"	4"	398
SSS-30-50-3-XX-XX	30	9.1	5"	20	14.6	10.2	6.8	2.4	.250"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	1 x 36 x 4"	4"	537
SSS-30-60-7-XX-XX	30	9.1	6"	20	13.8	9.2	5.8	1.2	.179"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1 x 36 x 4"	4"	467
SSS-30-60-3-XX-XX	30	9.1	6"	25	24	17	12.8	6.2	.250"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1.25 x 42 x 6"	4"	630
SSS-35-60-7-XX-XX	35	10.7	6"	14.2	8.4	4.6	1.6	NR	.179"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1 x 36 x 4"	4"	538
SSS-35-60-3-XX-XX	35	10.7	6"	25	17	11.6	7.4	1.8	.250"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1.25 x 42 x 6"	4"	726
SSS-40-60-7-XX-XX	40	12.2	6"	9.0	4.0	NR	NR	NR	.179"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1 x 36 x 4"	4"	614
SSS-40-60-3-XX-XX	40	12.2	6"	18	11.8	6.8	3.2	NR	.250"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1.25 x 42 x 6"	4"	802

¹ Allowable EPA with 1.3 gust factor. To determine max. pole loading weight, multiply allowable EPA by 30 lbs.
NOTE: Factory supplied template must be used when setting anchor bolts. Hubbell Lighting will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

COMPLETE PART NUMBER REQUIRES SHAFT ABOVE PLUS MOUNTING TYPE, FINISH & APPROPRIATE OPTIONS BELOW

OPTION ORIENTATION

MOUNTING TYPE

- AX'** Side - Single
- BX'** Side - Double at 90°
- CX'** Side - Double at 180°
- DX'** Side - Triple at 90°
- FX'** Side - Quad at 90°
- P1** Pad Mount - Spider Type
- P2** Pad Mount - Yoke Type
- P3** Pad Mount - Yoke Type (Proformer XL only)
- TA** Tenon (2.375" OD)
- TB** Tenon (2.875" OD)
- TR²** Removable Tenon (2.375 x 4.25)
- CD** Concord Luminaire
- OT** No drilling (includes pole cap)

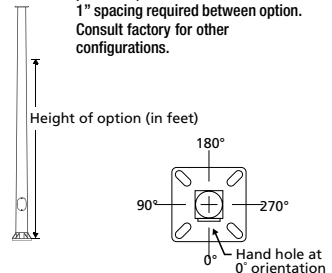
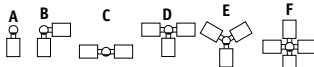
FINISH

- DB** Dark Bronze
- BL** Black
- WH** White
- GR** Gray
- PS** Platinum Silver
- RD** Red (Premium Color)
- FG** Forest Green (Premium Color)
- CC** Custom Color (Consult Factory)
- PR** Primer Only

OPTIONS

- Q55** Internal Coating (Hubbell Seal)
- Q18³** 15 Amp GFCI Receptacle and Cover
- Q22²** Extra Handhole
- Q26³** .5" Coupling
- Q27³** .75" Coupling
- Q30³** 2" Coupling
- Q32²** Mid-pole Luminaire Bracket
- Q40** Vibration Damper
- LAB** Less Anchor Bolts
- CSA** CSA Certified (consult factory)

Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option Q26 should be ordered as: **SSS-20-40-1-TA-DB-Q26-0-15** (.5" coupling on the handhole/arm side of pole, 15 feet up from the pole base)
1" spacing required between option. Consult factory for other configurations.



Due to our continued efforts to improve our products, product specifications are subject to change without notice.



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For more information visit our web site: www.spauldinglighting.com



Job Name:
Lot 16 Spirit Valley

Catalog Number:
MSV-WBA4-P40-V3P-F-Q-DB-L

Type:
W3

Notes:

LEC-STL14-40999

MSV SERIES
MSV
M - P U L S I V E ®

Cat. #		Approvals
Job	Type	

SPAULDING
LIGHTING

APPLICATIONS

- Malls, retail complexes, industrial sites or any large area lighting project where superior performance, design flexibility, and value are a must

SPECIFICATIONS

- Lightweight, rugged, one-piece formed and welded aluminum for smooth wall construction and weatherproofing. Pre-drilled for arm mounting. Decorative embossed band and reveal colors available
- Extruded aluminum door frame with rigid corner bracing and die cast zinc latches for tool-free entry (flat glass lens). Formed aluminum doorframe (convex lens) with stainless steel, Knurled head thumb screw design for tool-free entry. Quality high temperature rated extruded silicone gasket seals out insects, dirt and moisture. Tempered flat glass lens provides impact and thermal shock resistance and a sharp full cutoff classification. Impact and thermal shock resistant convex lens provides improved light level uniformity and broadened luminaire spacing

- Vertical and horizontal lamp orientations available: IES types I, II, III, IV, and V distributions. V1P, V3P, V5P and H5P reflectors are fully segmented. V4 and H4 reflectors are multi-piece design. H3 and H5 reflectors are hydroformed. All reflectors are rotatable
- Spider mount has four twin-tube arms attaching housing to pole top fitter. Yoke mount has two square arms securing housing to pole top fitter
- Extruded aluminum arms in 4" and 10" lengths along with multiple adapters provide mounting flexibility.
- Mogul porcelain socket, pulse rated, with spring-loaded, nickel-plated center contact and reinforced lamp grip screw shell
- CWA type, HPF ballast, starting rated at -20°F (-40°F for HPS)
- Durable Lektrocote® TGIC thermoset polyester powder coat paint finish assures long life and maintenance-free service

LISTINGS/CERTIFICATIONS

- Listed to UL1598 for use in wet locations
- IDA fixture seal of approval.

	FLAT GLASS		CONVEX GLASS			
	A	B	C	EPA	Weight	
FLAT	15"	21"	N/A	2.8 ft. ^{2*}	68 lbs	
	381 mm	533 mm		0.35m ²	30.6 kg	
CONVEX	14 1/2"	21" sq.	12"	2.4 ft. ²	63 lbs	
	368 mm	533 mm	374 mm	0.2m ²	28.6 kg	

NOTE: EPA and weight values do not include mounting arm

* With the 4" arm the EPA is 2.8ft.².

	SPIDER MOUNT		YOKE MOUNT			
	C	D	Flat	EPA	Weight	
SPIDER	33 11/16"	36 1/2"	0.5 ft. ²	9 lbs		
	856 mm	928 mm	0.15m ²	4.1 kg		
YOKE	35 3/16"	33 11/16"	1.6 ft. ²	11 lbs		
	894 mm	856 mm	0.49m ²	5.0kg		



ORDERING EXAMPLE: MSV-A4-P1K-V5P-F-5-DB-RPA4

ORDERING INFORMATION

MSV - [] - [] - [] - [] - [] - [] - [] - []

SERIES	SOURCE/WATTAGE	LAMP ORIENT./DISTR.	LENS	COLOR	OPTIONS
MSV M-Pulsive	METAL HALIDE H1K ¹⁴ 1000w (BT-37)	V1P Vert. I - segmented	F Flat glass	DB Dark Bronze (textured)	F(X)⁶ Fusing (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 5-480, 6-347)
MOUNT	SUPER METAL HALIDE MS1K ¹⁴ 1000w (BT-37)	V3P Vert. III - segmented	C⁸ Convex glass	BL Black (textured)	PR(X)¹² Photo cell receptacle (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 5-480, 6-347)
A4 Arm mount (includes 4" rigid arm)	PULSE START METAL HALIDE P17 175w (ED-28)	V4⁶ Vert. IV - multi-piece		WH White (textured)	P(X)^{4,5} Photo button (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 6-347)
A10¹¹ Arm mount (includes 10" rigid arm)	P25 250w (ED28)	V5P Vert. V (square) - segmented		PS Platinum Silver (smooth)	RPA2 Round pole adapter (2 3/4 - 3 1/8")
WB Wall bracket (arm not required or included)	P32 320w (ED28)	H3^{2,12,13} Horiz. III - hydroformed		RD Red (smooth) (premium color)	RPA3 Round pole adapter (3 1/4 - 3 3/4")
WBA4 Wall bracket with 4" rigid arm	P35 350w (ED28)	H4² Horiz. IV - multi-piece		FG Forest Green (textured, premium color)	RPA4 Round pole adapter (3 7/8 - 4 1/2")
WBA10 Wall bracket with 10" rigid arm	P40 400w (ED-37)	H5^{2,12,13} Horiz. V (square) - hydroformed		CC Custom Color (consult factory)	RPA5 Round pole adapter (5")
0 No arm or wall bracket (only order without arm or wall bracket when they are ordered as an accessory)	P45 450w (BT-37)	H5P² Horiz. V (square) - segmented			RPA6 Round pole adapter (6")
ST Spider mount (2 3/8" tenon)	P75 750w (BT-37)		VOLTAGE		QZ⁵ Quartz RS with lamp
YT Yoke mount (2 3/8" tenon)	P1K ¹⁴ 1000w (BT-37)		1¹⁰ 120V		VG Polycarbonate vandal guard
	HIGH PRESSURE SODIUM		2¹⁰ 208V		R(XX)⁷ Reveal (EB option must be chosen also); Replace XX with color
	S25 250w (ED-18)		3¹⁰ 240V		EB Embossed band
	S40 400w (ED-18)		4¹⁰ 277V		L Lamp
	S60 ¹ 600w (T-14)		F¹⁰ 347V		
	S75 ¹ 750w (BT-37)		Q³ Quad-Tap® 120/208/240/277V		
	S1K 1000w (ED-37)		T³ Tri-Tap® 120/277/347V		
			E 50Hz 220/240V		
			V^{3,9} Five-Tap 120/208/240/277/480V		
			0 No Ballast		

1 Must specify Q, 5, or T voltage. Available voltage tap on ballast may vary from catalog. **Must specify wiring prep with options**
 2 Flat lens configurations only for horizontal lamp orientation
 3 Factory wired for highest voltage unless specified
 4 400w maximum
 5 Not available with 50 Hz ballast, 600w and 750w HPS, and convex lens with 1000w HPS
 6 Not available with convex lens and 1000w HPS or 1000w with yoke or spider mount
 7 Reveal selection requires EB - embossed band option
 8 Vertical lamp only
 9 Only available with 400w, 350w, 320w, and 250w
 10 Only available with 1000w PSMH, 600w HPS, and 750w HPS
 11 Required for 90° and 120° configurations
 12 Not available with 1000w yoke or spider mount
 13 Not available with 1000w H1K, MS1K, P1K, S1K
 14 GE or Sylvania BT37 lamps recommended for horizontal distributions

NOTE: All poles to be drilled with #2 pattern



Job Name:
Lot 16 Spirit Valley

Catalog Number:
MSV-WBA4-P40-V3P-F-Q-DB-L

Type:
W3

Notes:

LEC-STL14-40999

SPECIFICATIONS

HOUSING Die-formed rectilinear housing to have continuous corner welds creating a seamless one-piece enclosure. Housing material to be heavy gauge low copper aluminum alloy. Door assembly to recess completely within luminaire housing creating evenly spaced reveal and floating door appearance.

DOOR/LENS FLAT LENS DESIGN: Extruded aluminum doorframe for tempered flat glass lens design to have 45° miter cut corners with internal corner key brackets for rigid support. Finish to be anodized with natural aluminum color. Tool-free entry design provided by corrosion-resistant, spring-loaded die cast zinc thumb latches (one per corner). Extruded silicone gasket profile to positively seal tempered glass lens to doorframe and doorframe to luminaire housing ensuring a contaminant free environment. Complete removal of the door assembly is achievable without tools. CONVEX LENS DESIGN: Die formed aluminum doorframe with impact and thermal-shock resistant convex lens, vulcanized one-piece extruded silicone gasket, and tool-free entry with two Knurled head stainless steel screws. Two additional corrosion-resistant treated screws provide door hinging and two additional points of attachment for equal gasket compression. Matching TGIC thermost polyester powder paint finish to match the luminaire housing color.

MOUNTING The luminaire housing shall attach to all mounting hardware via two 1/2" diameter bolts/rods. Mounting options to include rigid arm assemblies, knuckled arm assemblies for flat surfaces, knuckled arm assemblies for 2 3/8" OD tenon, wall bracket adapter, and round pole adapters ensuring maximum luminaire versatility. All mounting accessories should include gasket between the housing and accessory.

OPTICS The luminaire should be available in both vertical and horizontal lamp orientations. All optical assemblies are to be field rotatable in 90° increments. All flat glass configurations are to be IES – Full Cutoff classified. Internal house side shielding to be available with horizontal Type III distribution and field installable.

ELECTRICAL Available HID wattage range of 250 to 1000 watts from Metal Halide, Pulse Start Metal Halide, High Output Super Metal Halide, and High Pressure Sodium sources. Additional options include fusing, photocell cell control, and quartz restrike lamp.

FINISH TGIC thermost polyester powder paint finish applied at nominal 2.5 mil thickness. Prior to painting all luminaires and mounting accessories should be thoroughly cleaned with acid and alkaline cleaners followed by the application of a chromate conversion coating.

LISTINGS/CERTIFICATION UL1598 approved and CSA certified for outdoor use in wet locations

MSV EPA VALUES

Mounting Logic for Pole	Configuration	Flat Lens w/ 4" Arm	Flat Lens w/ 10" Arm	Convex Lens w/ 4" Arm	Convex Lens w/ 10" Arm
A	SINGLE	2.8	3	2.5	2.7
B	TWIN AT 90°	N/A	5.3	N/A	4.7
C	TWIN AT 180°	5.6	6	5	5.4
D	TRIPLE AT 90°	N/A	8.6	N/A	7.5
E	TRIPLE AT 120°	N/A	8.4	7.1	7.3
F	QUAD AT 90°	N/A	8.8	N/A	7.7

ACCESSORIES

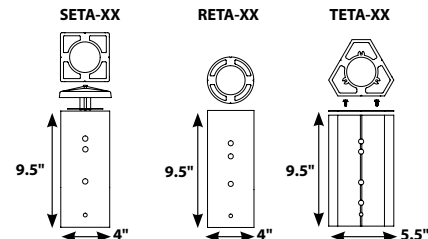
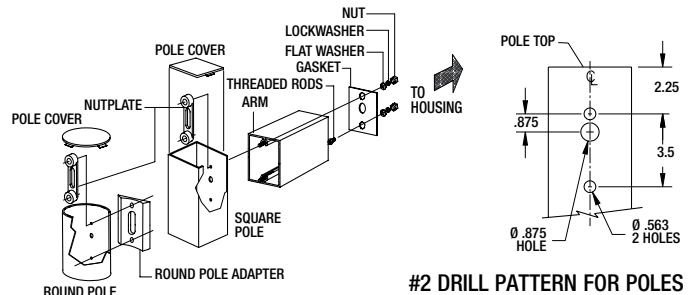
(Must be ordered separately. For field installation.)

Catalog #	Description
MSV-FGGS-2	Extreme Glare Shield for flat glass units only (mounts to housing); restricts lighting to any one side of fixture; black finish standard
MSV-GS	Glare Shield for sag glass units only; restricts light to any one side of fixture, black finish standard
MSV-PVG	Polycarbonate Vandal Guard
FDMLH	Flush Mount Kit - direct mount luminaire hardware kit
F-RPA2-XX^{1,2}	Round Pole Adapter (2 3/4 - 3 1/8")
F-RPA3-XX^{1,2}	Round Pole Adapter (3 1/4 - 3 3/4")
F-RPA4-XX^{1,2}	Round Pole Adapter (3 5/8 - 4 1/2")
F-RPA5-XX^{1,2}	Round Pole Adapter (5")
F-RPA6-XX^{1,2}	Round Pole Adapter (6")
WB-CR-XX¹	Wall Bracket
ARM-F-K-TA-XX¹	Tenon Arm (single) adjustable (2 3/8" O.D. tenon)
ARM-F-TK-TA-XX¹	Tenon Arm (double 180°) adjustable (2 3/8" O.D. tenon)
ARM-F-K-S-XX^{1,2}	Adjustable Arm
ARM-F-4-S-XX^{1,2}	4" Rigid Straight Arm
ARM-F-10-S-XX^{1,2}	10" Rigid Straight Arm
SETA-XX^{1,2}	4" Square Pole Tenon Adapter (4 @ 90°) (2 3/8" OD tenon)
RETA-XX^{1,2}	4" Round Pole Tenon Adapter (4 @ 90°) (2 3/8" OD tenon)
TETA-XX^{1,2}	Three sided Pole Tenon Adapter (3 @ 120°)

1 Replace **XX** with color choice, eg.: **DB** for Dark Bronze.
2 When ordering poles, specify Pole Drill Pattern #2.

PHOTOCONTROL EQUIPMENT

CATALOG #	DESCRIPTION
PTL-1	Photocontrol - Twist-Lock Cell (120V)
PTL-8	Photocontrol - Twist-Lock Cell (120-277V)
PTL-5	Photocontrol - Twist-Lock Cell (480V)
PTL-6	Photocontrol - Twist-Lock Cell (347V)
PSC	Shorting Cap - Twist-Lock



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SPAULDING
LIGHTING

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Job Name:
Lot 16 Spirit Valley

Catalog Number:

LCC 42F8 1 LP

Notes:

Type:

W1

LEC-STL14-40999

**LAREDO
SERIES**
LCC SERIES

NEW

Cat.#		Approvals
Job	Type	



SPECIFICATIONS

Intended Use

- Full cutoff*, IDA compliant entry or perimeter lighting
- Six to twelve foot typical mounting heights

Construction

- Decorative die-cast aluminum housing and door. Rugged design protects internal components and provides excellent thermal management for long life
- Flat, tempered, impact-resistant glass lens protects optics
- 800 Series powder paint finishes provide lasting appearance and are available in standard finishes: Dark Bronze, Black, White, Gray and Platinum

Electrical

- HID units are medium base; CFL units have insert and twist electronic socket
- Lamps are optional
- Systems include Pulse Start 50-70w, CFL 26-42w, HPS 50-70w and LED 12w
- Optional socket available for remote power for power outage egress applications

LED

- NEW 12 LED system delivers 802 lumens at 12.4w for 64LPW efficiency
- Universal 120-277V, 50/60Hz driver, .5 amp max

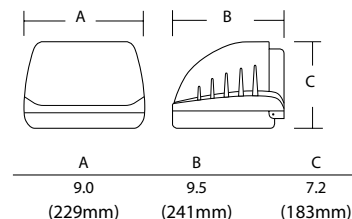
Installation

- Two-point lag mount securely holds housing to surface; Mounting template is provided.
- Designed for mounting over standard recessed junction boxes or for wiring with surface conduit; ½" hubs with plugs provided on top and sides for versatile access

Listings

- Listed to UL 1598 for use in wet locations
- IDA Dark Sky compliant

* (PSMH, CFL and HPS only) LED unit IDA compliant – no uplight



ORDERING INFORMATION

ORDERING EXAMPLE: LCC-70P8-1-LP

LCC	-		-		-	
Series		Wattage/Source/Voltage		Finish		Options
SERIES		WATTAGE/SOURCE/VOLTAGE		FINISH		OPTIONS*
LCC	Laredo Compact Cutoff	ELECTRONIC FLUORESCENT		1	Bronze	PC1 Button photocontrol 120V
		26F 8 26w, 120-277V		2	Black	PC2' Button photocontrol 208V
		32F 8 32w, 120-277V		3	Gray	PC3' Button photocontrol 240V
		42F 8 42w, 120-277V		4	White	PC4' Button photocontrol 277V
		PULSE START METAL HALIDE		5	Platinum	
		50P 9 50w, 120/277V				Egress Lamp Socket
		70P 8 70w, 120-277V				EM Mini can base socket only for remote, power by others (Max 50w Halogen recommended)
		HPS				
		50S 1 50w, 120V NPF				
		70S 1 70w, 120V NPF				
		50S 8 50w, 120-277V				
		70S 8 70w, 120-277V				
		LED				
		12LU-5K 12w, 120-277V				LP Lamp shipped in carton with fixture (Standard on LED units) Fluorescent lamps are 3500K

LCC LED System:

- 5000K color temperature
- Five year limited warranty
- Typical spacing of three times mounting height
- LED is IDA approved – no uplight

ACCESSORIES

LCC-SPC	Polycarbonate shield
PBT-1	120V button photocontrol
PBT-234'	208/240/277V button photocontrol
PTA-1	External 120V Photocontrol (use for 70w)
PTA-8	External photocontrol 120-277V (use for 70w and above)

¹ For use on CFL and LED units only

Note: 347V is available in 50P, 70P and 70S

Example: Change 50P8 to 50P6

*Not recommended at 70w