

### Architectural Review Board Staff Report

<b>Project Type:</b>	Site Development Section Plan
<b>Meeting Date:</b>	July 14, 2016
<b>From:</b>	Justin Wyse Senior Planner
<b>Location:</b>	641 Spirit Valley Central Dr.
<b>Applicant:</b>	Spirit Valley Development, LLC
<b>Description:</b>	<b>Spirit Valley Business Park, Adjusted Lot 4:</b> A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 3.492 acre tract of land zoned "PI" Planned Industrial District located on the west side of Spirit Valley Central Dr. and north of Spirit Valley West Dr.

#### **PROPOSAL SUMMARY**

The request is for construction of a 35,000 square foot multi-tenant building for office and warehouse users. The proposed building will be constructed of tilt-up concrete with spandrel glass accent features and steel eyebrows above the windows.

#### **ZONING HISTORY OF SUBJECT SITE**

The subject site was originally zoned "NU" Non-Urban District by St. Louis County in 1965 prior to the incorporation of the City of Chesterfield. The site was then rezoned from "NU" Non-Urban District to "PI" Planned



Figure 1: Aerial Photo

Industrial District in June of 2007 under terms and conditions of the City of Chesterfield Ordinance 2373. The ordinance has been amended twice to allow for additional permitted uses.

## **STAFF ANALYSIS**

### **General Requirements for Site Design:**

#### **A. Site Relationships**

This is a 3.492 acre tract located within Spirit Valley Business Park. The proposal includes a one-story office / warehouse building. The building is situated with the loading dock area on the west of the building, with public access on the east.

#### **B. Circulation System and Access**

Proposed access to the site will be from a shared entrance on the north (shared with future development) and additional access on the southern end of the site off Spirit Valley West Dr. Access points are proposed to minimize difficult maneuvers for large truck traffic while also providing reasonable and safe public access.

#### **C. Topography**

Subject site is within the Valley and relatively flat.

#### **D. Retaining Walls**

No retaining walls are proposed associated with this request.

### **General Requirements for Building Design:**

#### **A. Scale, Design, Materials and Color**

The proposed building is thirty-three (33) feet in height, which is similar in height and scale with other existing structures within Spirit Valley Business Park. Concrete tilt-up panels will be used with dark (charcoal) color on vertical projected portals and light (beige) colors on the main portion of the façade. The primary façade is also accented with red colored steel eyebrows and vertical frosted glass sections.





**B. Landscape Design, Screening and Fencing**

Landscaping is required to comply with the Tree Preservation and Landscape Requirements of the City of Chesterfield. A combination of shrubs and perennials are included on the front (east) and side (south) facades which are most visible from the public realm. Bio-retention is included on the west end of the site.

<u>Item</u>	<u>Location</u>	<u>Material &amp; Screening</u>
Trash enclosure –	Northwest side of building	Tilt-up concrete matching building with landscaping around perimeter
Fencing –	None proposed	n/a
Transformer –	Southwest side of building	Landscaping
Mech. Eqpmnt. –	On top of building	Four-sided parapet
Loading area –	West side of building	Situated furthest from public view. Landscaping along Sprit Valley West Dr. on south frontage.

**C. Lighting**

Lighting consists primarily of utilitarian lighting in compliance with the City of Chesterfield’s lighting requirements. Proposed street lights will match the standards installed throughout the development. Accent lighting is utilized to highlight building entrances.

**DEPARTMENTAL INPUT**

Staff has reviewed the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect’s Statement of Design. Be advised, this project is still going

through development review by City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed. All recommendations made by the ARB will be included in Staff's report to the Planning Commission.

Staff requests review and recommendation on this submittal for Spirit Valley Business Park, Adjusted Lot 4.

**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, Adjusted Lot 4, 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, Adjusted Lot 4, to the Planning Commission with the following recommendations..."

Attachments

1. Architectural Review Packet Submittal

*Lot-4*

*Spirit Valley Business Park  
641 Spirit Valley Central Drive  
Chesterfield, Missouri 63005*

*June 21, 2016*



Owner:  
**Daniel W. Hayes**

Architect:  
**David W. Dial Architects, P.C.**

General Contractor:  
**Keystone Construction**

Architect:  
**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: Lot-4 Spirit Valley Business Park Location: 641 Spirit Valley Central Drive

Developer: Spirit Valley Development L Architect: David W. Dial Architects, P.C Engineer: Stock & Associates

**PROJECT STATISTICS:**

Size of site (in acres): 3.492 acres Total Square Footage: 35,000 S.F. Building Height: +/-33'-0"

Proposed Usage: Multi-Tenant Office/Warehouse

Exterior Building Materials: Tilt-up Concrete

Roof Material & Design: TPO Single-Ply Membrane / Roof Insulation / Steel Deck and Structure

Screening Material & Design: Trash Enclosure is tilt-up concrete

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.



14364 Manchester Road  
Manchester Missouri 63011  
636 230 0400

June 14, 2016

City of Chesterfield  
Department of Planning  
690 Chesterfield Parkway West  
Chesterfield, Missouri 63017-0760

Members of the Architectural Review Board

Re: Architectural Statement  
Submittal for Approval of New Office/Warehouse Condo Facility  
Spirit Valley Business Park, Lot-4

### **General Requirements for Site Design**

This project consists of a single-story speculative office/warehouse condominium building designed for multiple tenants. The construction site is located on Spirit Valley Central Drive near Olive Street Road on the far west side of Chesterfield Valley across from Rombach's Pumpkin Farm in the Spirit Valley Business Park.

As you can see from the photos in this packet, the rectangular site is treeless and generally flat other than the drainage ditch and is otherwise featureless. The building is strategically located on the site to be compatible with the existing drainage system for the development while maintaining compatibility with neighboring developments.

The approved concept plan for the entire development shows a 5' wide side walk on the east and south sides of the property to provide pedestrian circulation. While we cannot control future development of neighboring sites, this specific site design forces a shared entrance with a future neighbor on the north side. This concept is key to the park owners desires for this overall development.

We are not proposing the use of fencing nor retaining walls at this time.

Landscaping is designed per city ordinance in a similar fashion to the adjacent developments. Please see attached landscape plan.

## **General Requirements for Building Design**

The owner of this facility, being a long time and current resident of the City of Chesterfield, places a high priority on the appearance of his facility and has played a role in the design of this facility.

The modern front (east) elevation is articulated with towering monolithic dark vertical projected portals designating individual condo entries against a light background with glass, reveals, level changes and large architectural steel eyebrows with oversized contrasting nuts. The eyebrows and windows create rhythmically pleasing patterns accented with colors and opposing shapes to add depth and a sense of place. The recessed vertical frosted glass elements further divide up the light expanse between the entry portals encouraging one to explore the building further.

The building will utilize modern dark and light colors, rectangular windows with a boldly colored steel eyebrow, frosted glass vertical separators. The colors, glass and metal items are juxtaposed on the façades of the building to create a quality overall building design. These include a main building color of a warm light beige with a dark warm charcoal accent color.

The north and south sides of this building are treated in a similar fashion as the east and the working west side has high horizontal windows to provide natural light into the warehouse areas and a parapet with scuppers for drainage to conceal the flat sloped roof. The building materials are the same as all of the other buildings in this park, but are being used in more modern design way to deliver an aesthetically pleasing solution. A special elastomeric coating designed specifically for concrete will protect the concrete panels.

The windows for this project, in keeping with its strong design theme, are large fixed energy compliant windows. 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 three light standards in the front of the building along Spirit Valley Central Drive with wall-mounted, shoebox type fixtures on the west and north elevations of the building that will not shine off of the property in an unnecessary fashion and lighting accenting the building entries.

Please see the site development section plan for drainage information.

The proposed HVAC system is planned to be roof mounted and fully screened by the building parapets.



### **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 trash receptacle will be screened from public view with tilt-up concrete to coordinate with the building.

The electrical service will be provided by a new transformer and has yet to be located. 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 west side of the building.

Street lighting is included in this project to match the existing industrial park street lighting and is located to the east of the building along Spirit Valley Central Drive.

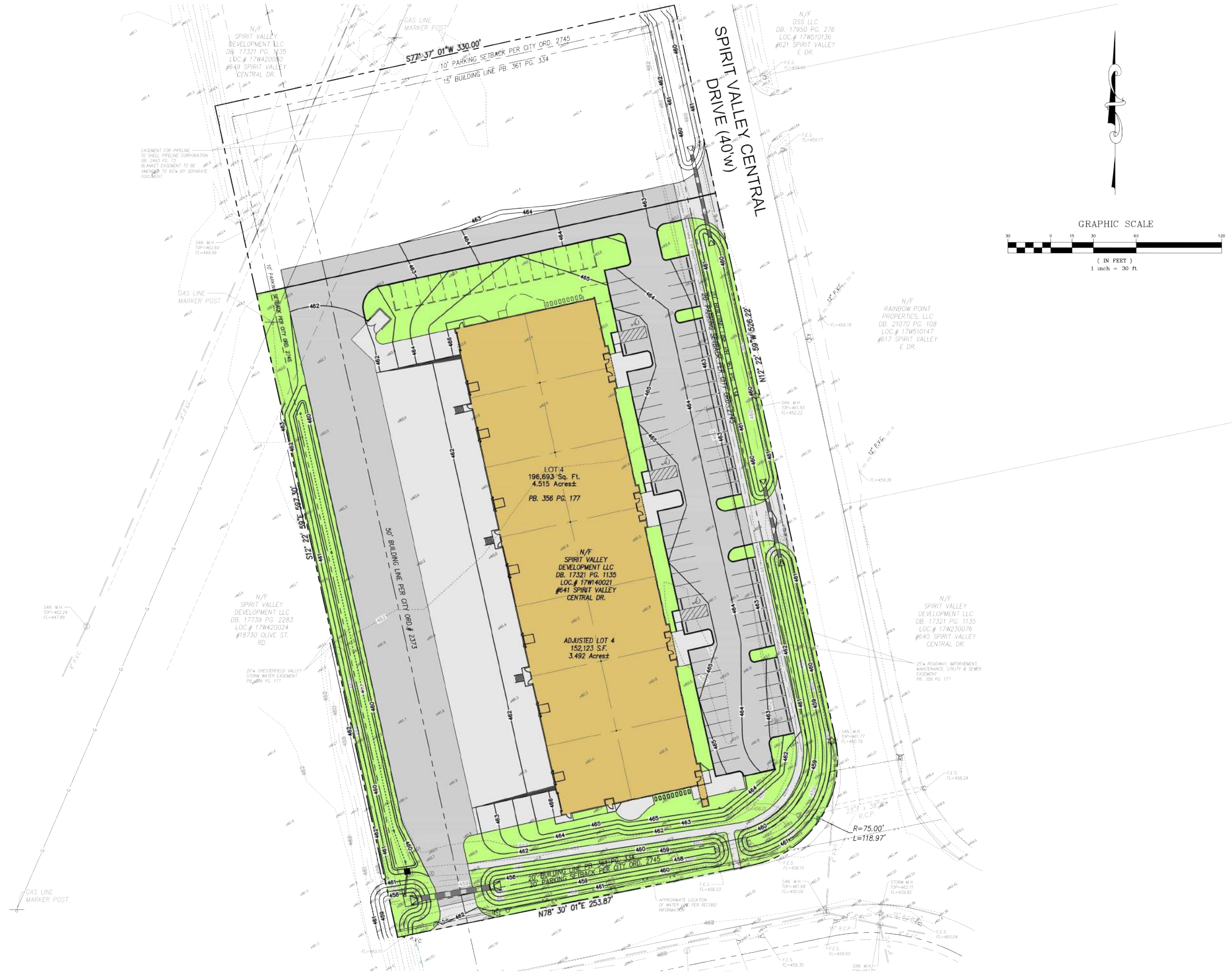
It remains our intention to provide a design that will enhance the local environment while blending with the building types already in Wings Corporate Estates. The owner is excited about providing a new quality designed facility for the City of Chesterfield.

Thank you for your assistance.

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

- Glass and frame samples
- Color samples of the concrete coatings

End of Architects Statement



PREPARED BY:

**STOCK & ASSOCIATES**  
 Consulting Engineers, Inc.  
 257 Chesterfield Business Parkway  
 St. Louis, MO 63015 PH: (636) 530-9100 FAX: (636) 530-9103  
 e-mail: general@stockassoc.com  
 Web: www.stockassoc.com

SITE DEVELOPMENT SECTION PLANS FOR:  
**LOT 4 - SPIRIT VALLEY BUSINESS PARK**  
 641 SPIRIT VALLEY CENTRAL DRIVE  
 CHESTERFIELD, MO

STATE OF MISSOURI  
 GEORGE MICHAEL STOCK  
 NUMBER: PE-25116  
 PROFESSIONAL ENGINEER  
*George M. Stock* 5/23/16  
 GEORGE M. STOCK E-25116  
 CIVIL ENGINEER  
 CERTIFICATE OF AUTHORITY  
 NUMBER: 000996

REVISIONS:


DRAWN BY: E.J.F.	CHECKED BY: G.M.S.
DATE: 05/23/2016	JOB NO: 216-5789
M.S.D. P.#: P-178	BASE MAP #: -
S.L.C. HAT #: -	HAT S.U.P. #: -
M.D.N.R. #: MO-	

SHEET TITLE:  
**COLOR SITE PLAN**  
 SHEET NO.:  
**1**



LOOKING NORTH



LOOKING EAST



LOOKING SOUTH

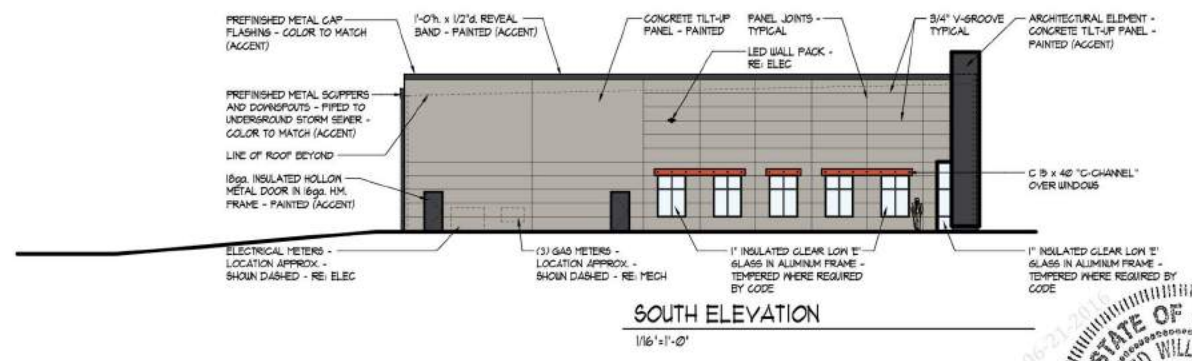
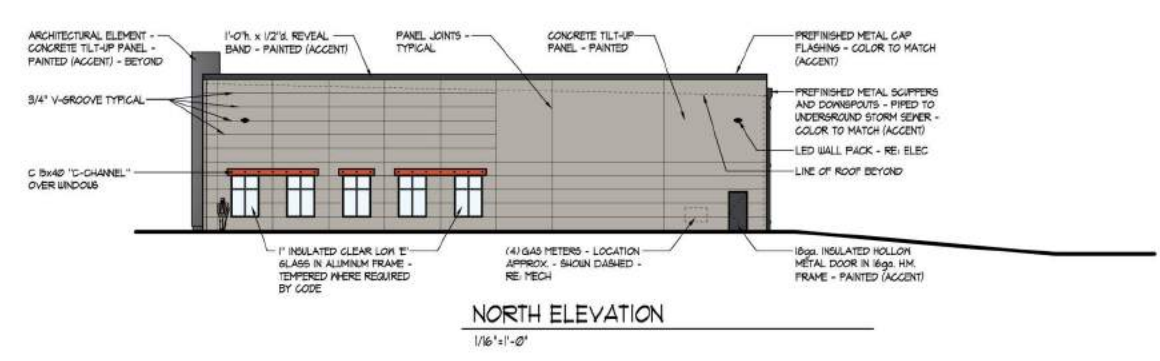
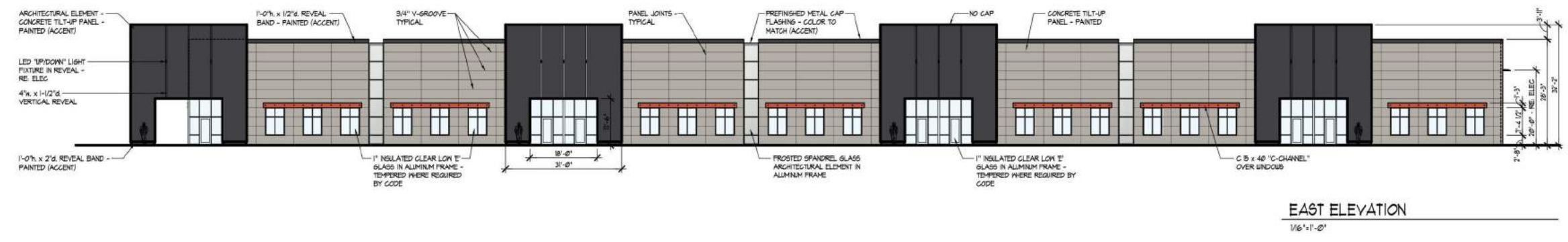


LOOKING WEST

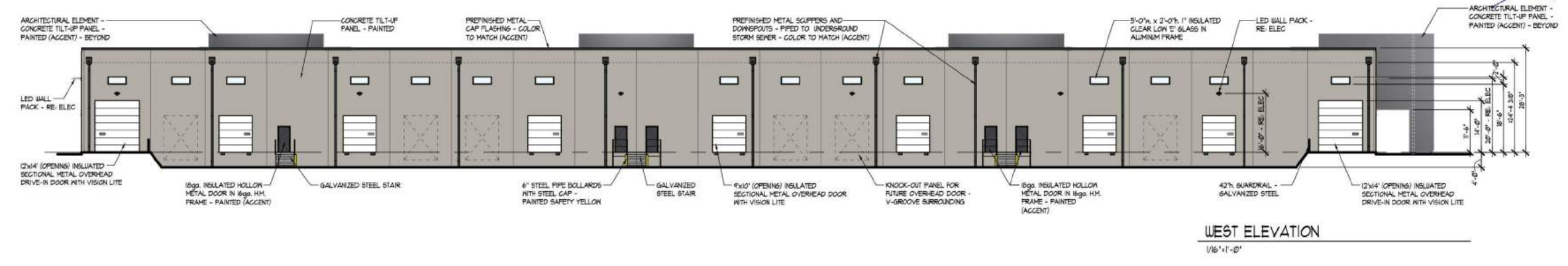
General Contractor:  
**KEYSTONE**  
 QUALITY DESIGN/BUILD CONSTRUCTION

Civil Engineer:  
**Stock & Associates**  
 Consulting Engineers, Inc.  
 237 Chesterfield Business Parkway, St. Louis, MO 63085  
 PH: (636) 531-9888 FAX: (636) 531-9833  
 e-mail: [ps@stockandassociates.com](mailto:ps@stockandassociates.com) Web: [www.stockand.com](http://www.stockand.com)

Structural Engineer:



ROOFTOP EQUIPMENT WILL BE SCREENED BY BUILDING PARAPET



NEW BUILDING DESIGN FOR ...

**SPIRIT VALLEY BUSINESS PARK**

LOT 4 - 641 SPIRIT VALLEY CENTRAL DRIVE  
 CHESTERFIELD, MISSOURI 63005

ISSUE DATES:

PRELIMINARY DESIGN:	05-24-16
PRELIMINARY DESIGN:	05-31-16
CITY SUBMITTAL:	06-14-16
CITY SUBMITTAL:	06-21-16

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STATE OF MISSOURI REGISTERED ARCHITECT:  
 DAVID WILLIAM DIAL - LICENSE NUMBER A-7331  
 DAVID W. DIAL ARCHITECTS, P.C.  
 ARCHITECTURAL CORPORATION #2000149091

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**dial architects**

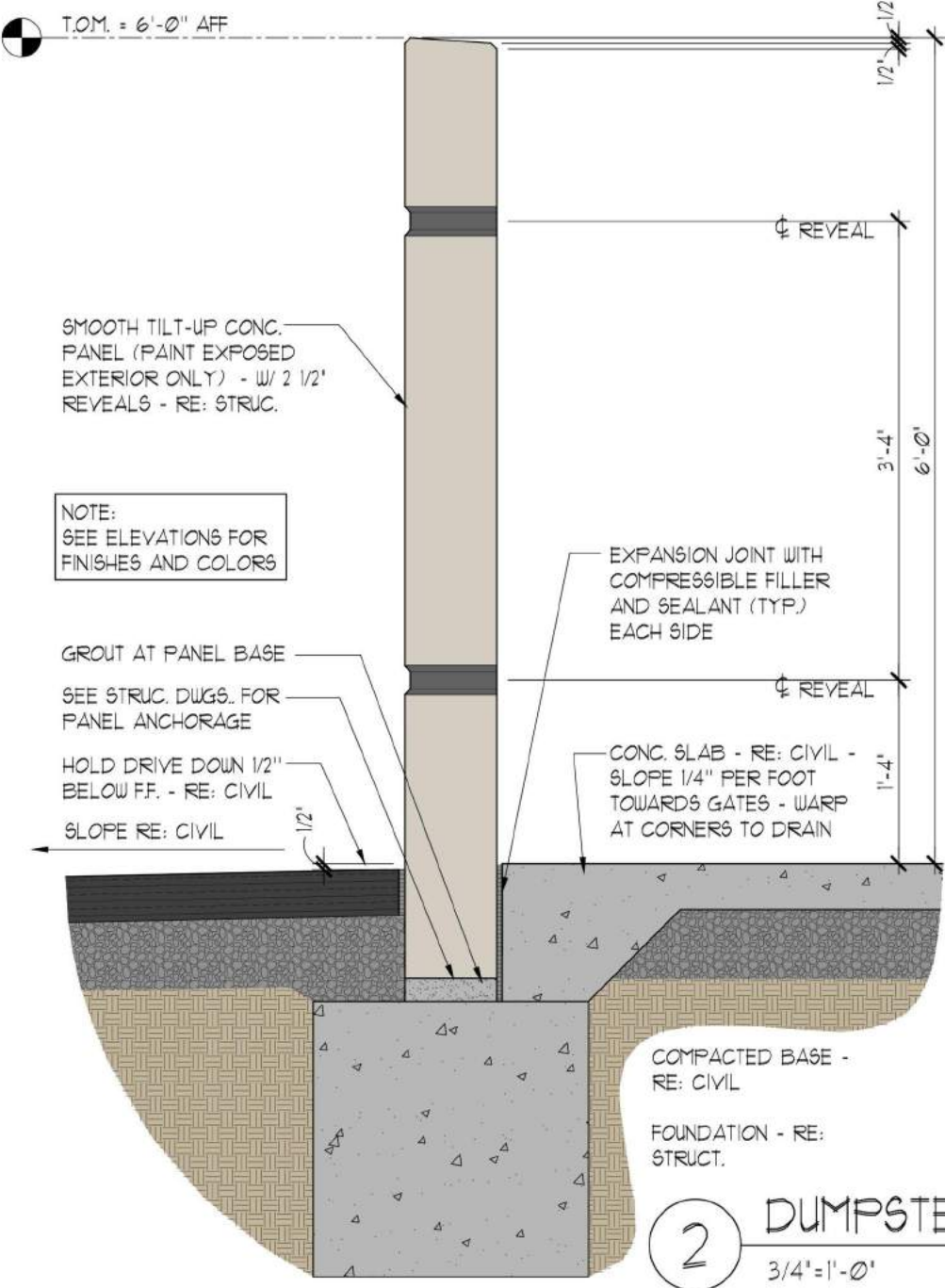
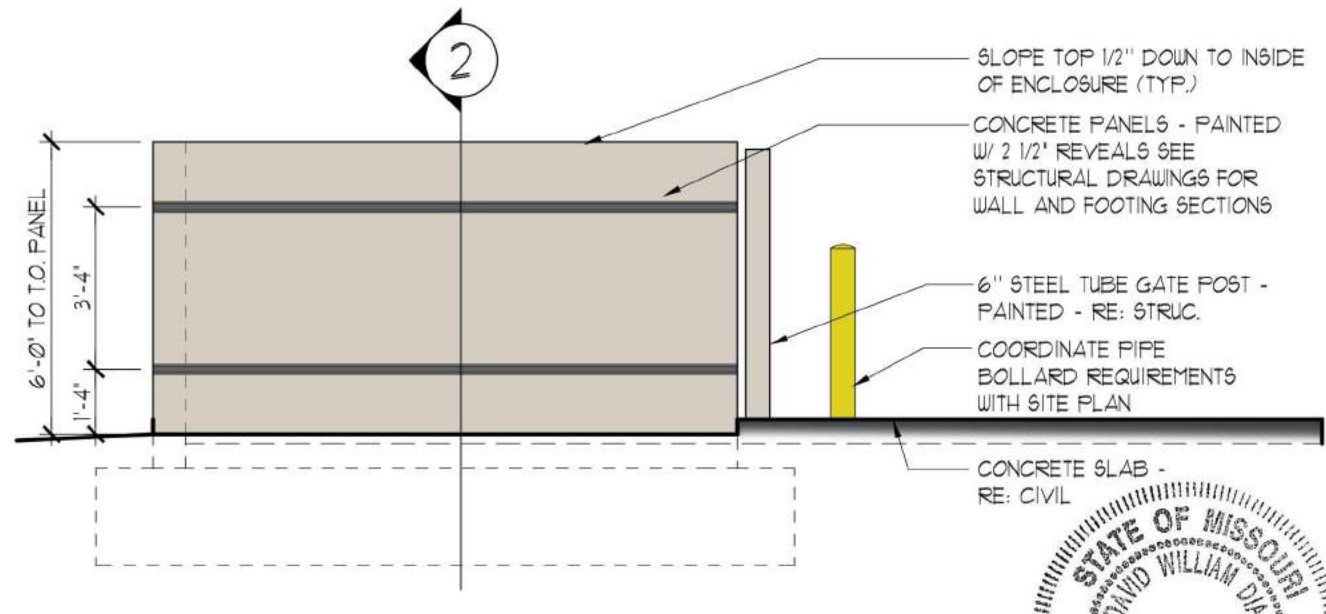
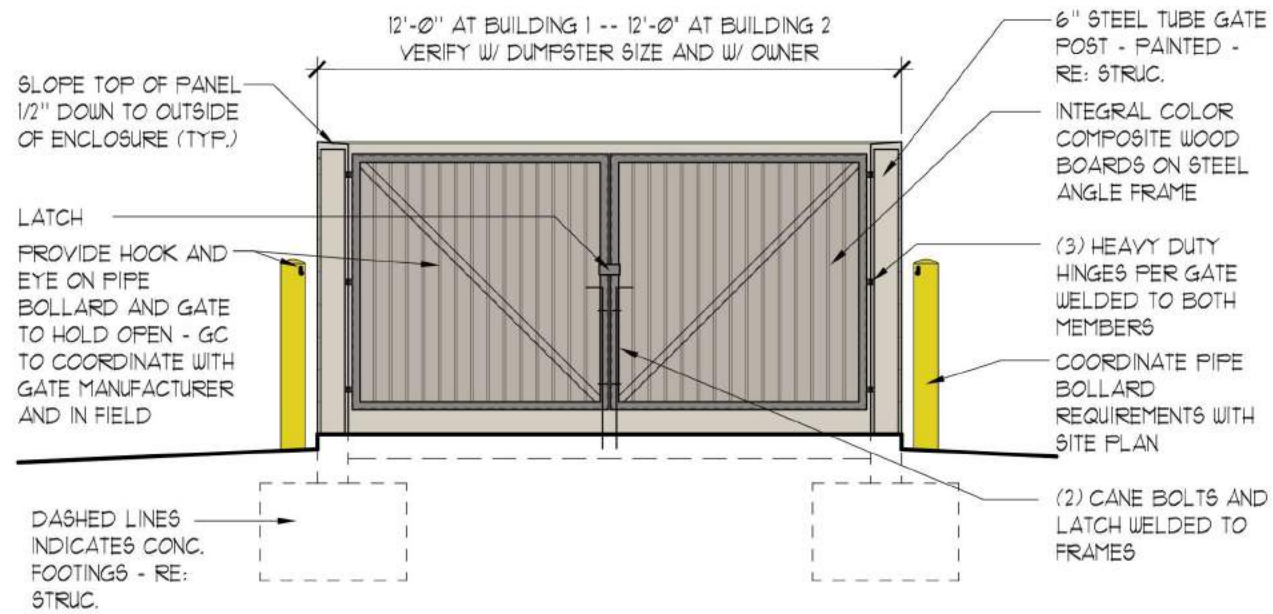
14364 Manchester Road • Manchester Missouri 63011  
 636 230 0400 [www.dialarchitects.com](http://www.dialarchitects.com)

SHEET NUMBER:

**BUILDING ELEVATIONS**

PROJECT NUMBER: 16070 DATE: 06-21-16

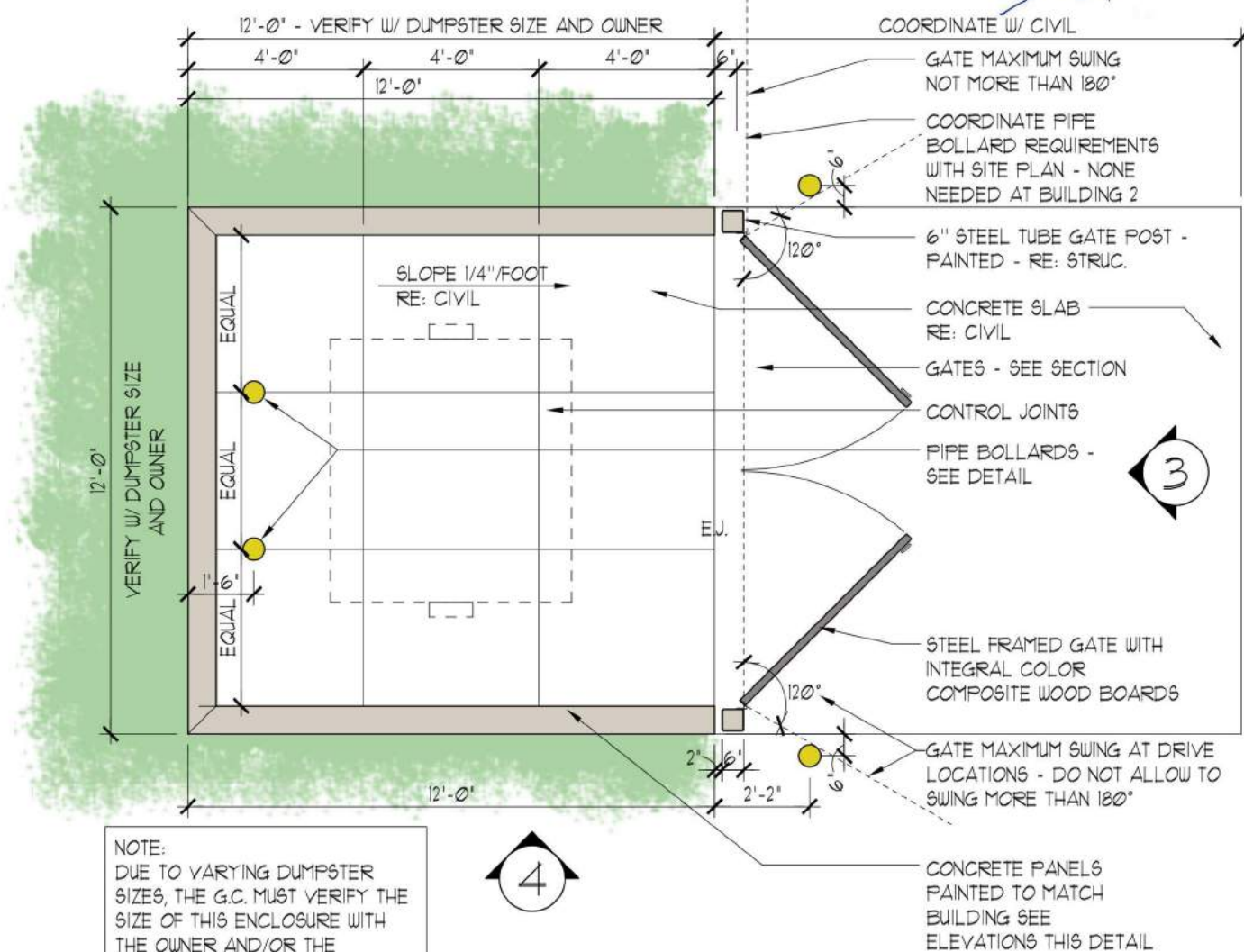




3 4

DUMPSTER FRONT AND SIDE ELEVATIONS

1/4" = 1'-0"



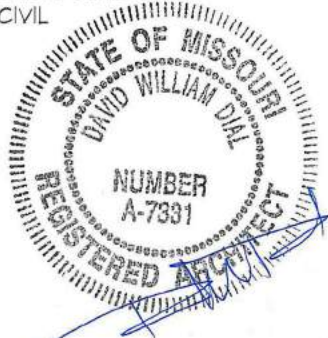
NOTE: DUE TO VARYING DUMPSTER SIZES, THE G.C. MUST VERIFY THE SIZE OF THIS ENCLOSURE WITH THE OWNER AND/OR THE DUMPSTER SIZES INTENDED TO BE USED TO INSURE PROPER FIT.

4

1

DUMPSTER PLAN

1/4" = 1'-0"



General Contractor:  
**KEYSTONE**  
QUALITY DESIGN/BUILD CONSTRUCTION

Civil Engineer:  
**STOCK & ASSOCIATES**  
Consulting Engineers, Inc.  
227 Chesterfield Business Park, St. Louis, MO 63105  
PH (636) 533-9800 FAX (636) 533-9830  
e-mail: gerald@stock.com www.stock.com

Structural Engineer:

NEW BUILDING DESIGN FOR ...

**SPIRIT VALLEY BUSINESS PARK**

LOT 4 - 641 SPIRIT VALLEY CENTRAL DRIVE  
CHESTERFIELD, MISSOURI 63005

ISSUE DATES:

PRELIMINARY DESIGN:	05-24-2016
PRELIMINARY DESIGN:	05-31-2016
CITY SUBMITTAL:	06-14-2016

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DAVID WILLIAM DIAL - LICENSE NUMBER A-7331  
DAVID W. DIAL ARCHITECTS, P.C.  
ARCHITECTURAL CORPORATION #2000149091

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**dial architects**

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

SHEET NUMBER:

**DUMPSTER DETAILS**

PROJECT NUMBER: 16070 DATE: 06-14-2016



Jerald Saunders - Landscape Architect  
MO License # LA-007

Consultants:

# Lot 4 Spirit Valley Business Park

Chesterfield, Missouri

Revisions:

Date	Description	No.
6-13-16	Revised Plan	1

Drawn: BR  
Checked: RS

**loomisAssociates**

landscape architects/planners  
707 Spirit Valley Drive, Suite 105  
Chesterfield, Missouri 63005-1194  
636.931.8688 fax 636.931.0297  
e-mail: info@loomisassociates.com

Loomis Associates Inc.  
Missouri State Certificate of Authority # LAC #0000191

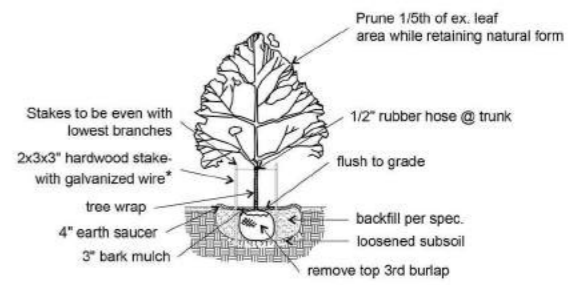
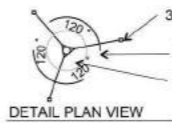
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Sheet No: **L-1**  
Date: 05/20/16  
Job #: 667.014



**LANDSCAPE PLAN**  
SCALE 1" = 30'

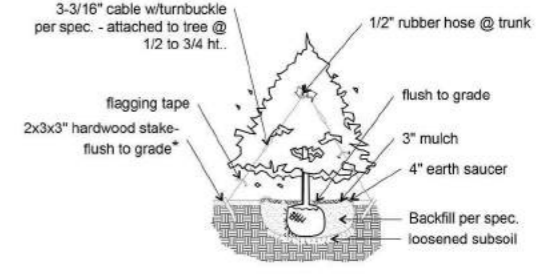
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	GROWTH RATE/SIZE CLASS	MATURE HT/FEET
<b>TREES</b>							
A	8	<i>Acer rubrum</i> 'Frankford'	Red Sunset Maple	2.5' cal	Deciduous	Fast/Large	45+
B	2	<i>Quercus bicolor</i>	Swamp White Oak	2.5' cal	Deciduous	Med/Large	45+
C	4	<i>Tilia cordata</i>	Littleleaf Linden	2.5' cal	Deciduous	Slow-Med/Large	45+
D	2	<i>Zelkova serrata</i>	Zelkova	2.5' cal	Deciduous	Fast/Large	45+
E	2	<i>Gleditsia triacanthos</i> 'Shademaster'	Shademaster Honeylocust	2.5' cal	Deciduous	Fast/Large	45+
F	2	<i>Platanus x acerifolia</i>	London Planetree	2.5' cal	Deciduous	Fast/Large	45+
G	2	<i>Quercus muehlenbergii</i>	Chinkapin Oak	2.5' cal	Deciduous	Med/Large	45+
H	15	<i>Betula nigra</i> 'BNMTF' (Single Stem)	Dura Heat River Birch	2.5' cal	Deciduous	Med/Medium	20-30
I	3	<i>Cercis canadensis</i>	Redbud	2.5' cal	Ornamental	Fast/Medium	25-30
J	10	<i>Picea glauca</i>	White Spruce	6"	Evergreen	Med/Medium	30-40
<b>SHRUBS/PERENNIALS</b>							
a	24	<i>Buxus sinica</i> var. <i>insularis</i> 'Wintergreen'	Wintergreen Boxwood	5 gal	Evergreen	-	-
b	20	<i>Spiraea japonica</i> 'Magic Carpet'	Magic Carpet Spirea	5 gal	Deciduous	-	-
c	10	<i>Viburnum carlesii</i> 'Compactum'	Dwarf Koreanspice Viburnum	5 gal	Deciduous	-	-
		Bioretention plantings	-	-	-	-	-

Open Space Percentage: 30%

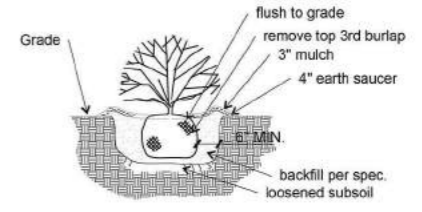


**CANOPY TREE PLANTING**

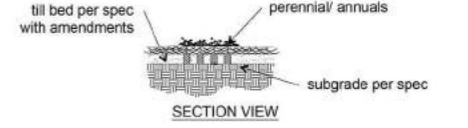
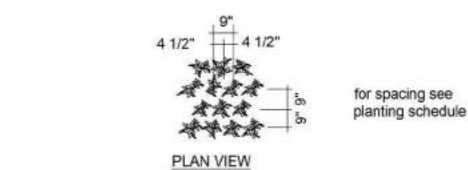
- \* Staking should only be done when:
  - Planting in soft, loose soils
  - Root balls in sandy soils, or wet clay
  - Trees located in an extremely windy location



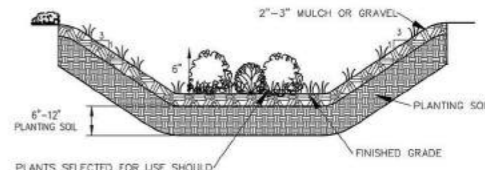
**TYPICAL EVERGREEN PLANTING**



**TYPICAL SHRUB PLANTING**



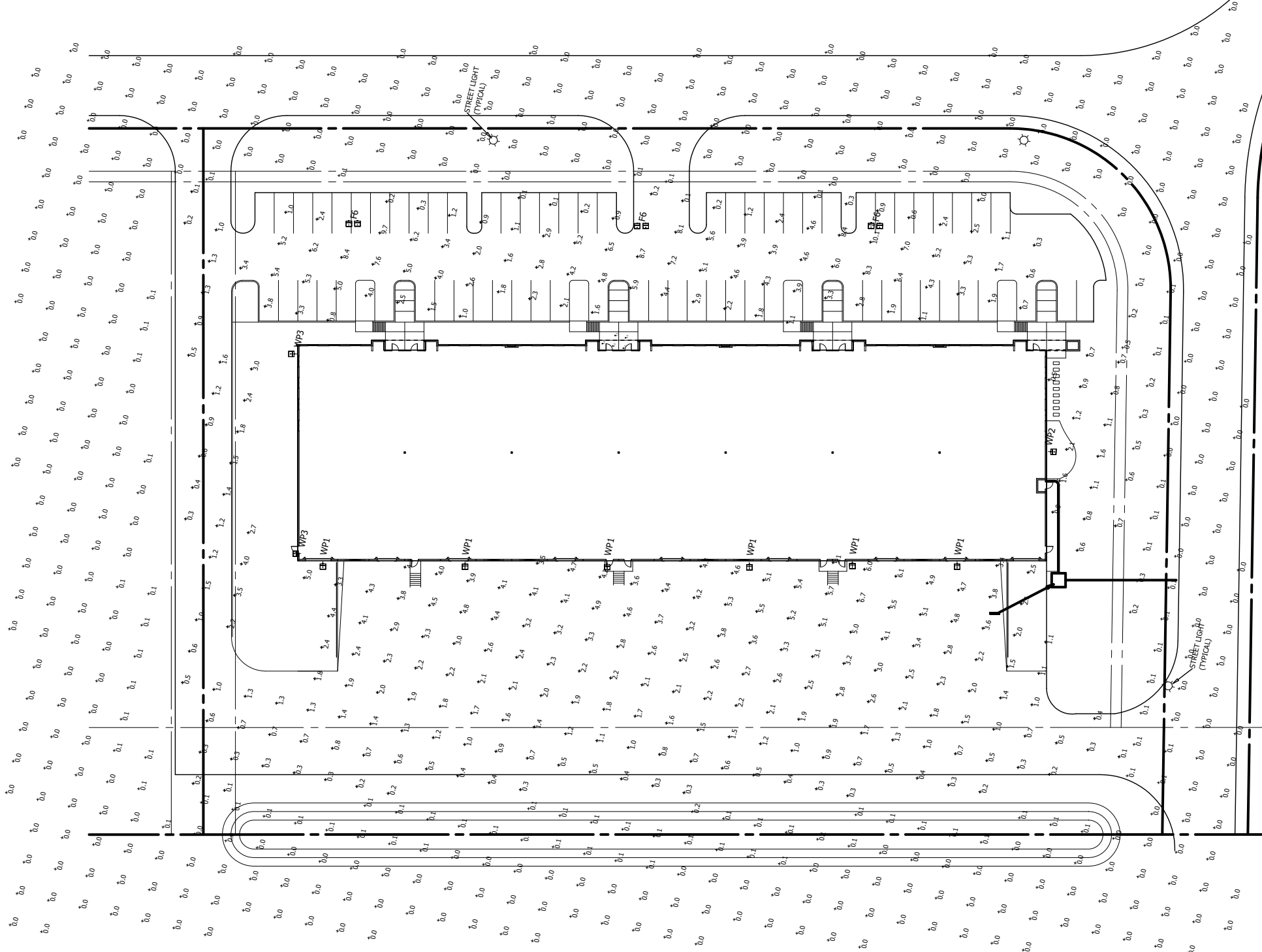
**TYPICAL PERENNIAL PLANTING**



PLANTS SELECTED FOR USE SHOULD TOLERATE BOTH SATURATED AND DRY CONDITIONS AND BE NATIVE OR ADAPTED TO MISSOURI.

**BIORETENTION PLANTINGS (n.t.s.)**





ALL FIXTURES MOUNTED 20' ABOVE GRADE  
 LIGHT LEVELS CALCULATED ON THE GROUND

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
BLDG ENTRANCE	Illuminance	Fc	0.24	0.3	0.2	1.20	1.50
SITE	Illuminance	Fc	2.52	10.1	0.0	N.A.	N.A.
SOUTH BLDG AREA	Illuminance	Fc	1.02	2.1	0.5	2.04	4.20
SPILL LIGHT	Illuminance	Fc	0.02	0.6	0.0	N.A.	N.A.

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Lum. Watts	Total Watts	LLF	Description
	3	F6	ROTATED OPTICS	157	942	1.000	GLEON-AE-03-LED-E1-SL3-HSS TWIN
	6	WP1	SINGLE	213	1278	1.000	GLEON-AE-04-LED-E1-T4FT
	1	WP2	SINGLE	56	56	1.000	GLEON-AE-01-LED-E1-SL3 WALL MOUNT
	2	WP3	SINGLE	107	214	1.000	GLEON-AE-02-LED-E1-T3

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

General Contractor:  
**KEYSTONE**  
 QUALITY DESIGN/BUILD CONSTRUCTION

Civil Engineer:  
**STOCK & ASSOCIATES**  
 Consulting Engineers, Inc.  
 257 Chesterfield Business Parkway, St. Louis, MO 63005  
 Ph: (314) 530-9100 Fax: (314) 530-9150  
 e-mail: [general@stockand.com](mailto:general@stockand.com) Web: [www.stockand.com](http://www.stockand.com)

Structural Engineer:

NEW BUILDING DESIGN FOR ...

# SPIRIT VALLEY BUSINESS PARK

LOT 4 - 641 SPIRIT VALLEY CENTRAL DRIVE  
 CHESTERFIELD, MISSOURI 63005

ISSUE DATES:  
 PRELIMINARY DESIGN: 05-24-2016  
 PRELIMINARY DESIGN: 05-31-2016  
 CITY SUBMITTAL: 06-14-2016

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STATE OF MISSOURI REGISTERED ARCHITECT:  
 DAVID WILLIAM DIAL - LICENSE NUMBER A-7331  
 DAVID W. DIAL ARCHITECTS, P.C.  
 ARCHITECTURAL CORPORATION #2000149091

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 EXHIBITING THIS  
 SEAL, SHALL NOT BE CONSIDERED PREPARED BY  
 OR THE RESPONSIBILITY OF THE UNDERSIGNED.

**dial** architects  
 14364 Manchester Road • Manchester Missouri 63011  
 636 230 0400 [www.dialarchitects.com](http://www.dialarchitects.com)

SHEET NUMBER:  
**PHOTOMETRIC  
 PLAN**  
 PROJECT NUMBER: 16070 DATE: 06-14-2016

# BLADE-S

WEB PIN™ 705



## GENERAL SPECIFICATION

**Body and trim:** Die-cast aluminum.

**Finish:** Powder coated, Aluminum Gray or Graphite Satin.

**Lens:** Tempered safety glass.

**Gaskets:** Heat resistant silicone.

**External screws:** 304 stainless steel.

**Minimum Starting Temperature:** -30°C.

**Drivers for white LED:** Integral, HPF electronic for 120/277V.

**Mechanical:** Mounts directly over a 2" x 3" electrical junction box (by others).

**Approval:** ETL. Wet location, IP65.

## DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

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<b>Project</b>		
<b>Comments</b>		<b>Date</b>
<b>Prepared by</b>		

## SPECIFICATION FEATURES

### Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

### Optics

Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory can be field or factory installed. The

house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

### Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

### Mounting

Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during

assembly. Designed for pole or wall mounting. When mounting two or more luminaires at 90° or 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole top adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

### Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

### Warranty

Five-year warranty.



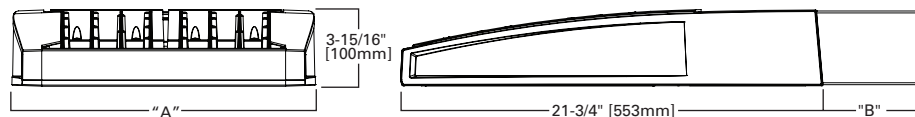
## GLEON GALLEON LED

1-10 Light Squares  
Solid State LED

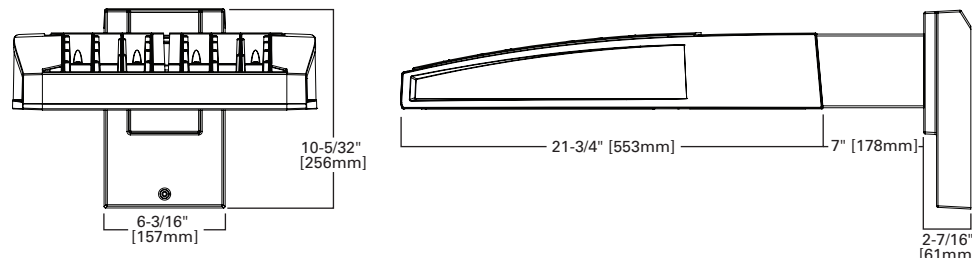
AREA/SITE LUMINAIRE

## DIMENSIONS

### POLE MOUNT



### WALL MOUNT



### DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length <sup>1</sup>	Weight with Arm (lbs.)	EPA with Arm <sup>2</sup> (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1 Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. 2 EPA calculated with optional arm length.



### CERTIFICATION DATA

UL/cUL Wet Location Listed  
ISO 9001  
LM79 / LM80 Compliant  
3G Vibration Rated  
IP66 Rated  
DesignLights Consortium™ Qualified\*

### ENERGY DATA

Electronic LED Driver  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120V-277V 50/60Hz  
347V & 480V 60Hz  
-40°C Min. Temperature  
40°C Max. Temperature  
50°C Max. Temperature (HA Option)

## DESCRIPTION

The Halo Surface LED Downlight (SLD) incorporates WaveStream™ technology to create an ultra-low profile surface mounting luminaire with the performance and look of a traditional downlight. SLD6-1200 UNV series is designed for installation in many 4" x 2-1/8" deep square junction boxes. Accessory mounting kit allows retrofit in 5" and 6" IC and Non-IC recessed housings.\* Suitable for residential or commercial installations. Ideal for closets, storage areas, attics and basements. Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5).

Catalog #		Type
Project		
Comments		Date
Prepared by		

## SPECIFICATION FEATURES

### CONSTRUCTION

- Die cast aluminum trim ring, and die formed aluminum frame

### OPTICS

- WaveStream™ technology provides uniform luminance from a low profile flat lens
- AccuAim™ optics provide directional control for the "cone-of-light" beam distribution of a traditional downlight.
- Precision molded lens features high transmission polymer with UV stabilized protecting film

### DESIGNER TRIMS

#### Accessories (sold separately)

SLD designer trims are accessory rings that attach to the SLD for a permanent finish.\* Refer to SLD accessories specification sheet for details.

- White (Paintable)
- Satin Nickel
- Tuscan Bronze

\*SLD accessory trims attach with permanent adhesion and are not interchangeable after installation.

### ELECTRICAL JUNCTION BOX MOUNTING

- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- Suitable for installation in many 4" x 2-1/8" deep square electrical junction boxes.
- Driver consumes 3 cubic inches of junction box.
- Compatible with other junction boxes with accessory SLD6EXT extension spacer ring.
- Surface mounting in a fire-rated ceiling using an appropriate electrical box offers a cost-effective alternative to fire-rated recessed housings

**Note:** Fire-rating is per the rating of the ceiling and applicable

junction box, not the SLD.

- Installer must ensure compatibility of fit, wiring and proper mounting in the electrical junction box. This includes all applicable national and local electrical and building codes.
- Proprietary Slot-N-Lock quick installation system for junction box installation
- T-bracket with Slot-N-Lock mounting tabs included

### OPTIONAL - RECESSED HOUSING MOUNTING

- Accessory SLD6ACCKIT required for mounting in 5" and 6" enclosed recessed housings
- May be installed in IC recessed housings in direct contact with insulation

\* **Note:** Not for use in recessed housings in direct contact with spray foam insulation. Refer to NEMA LSD 57-2013

- The SLD6 may be used with any 5 or 6 inch diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 107.9 in<sup>3</sup>.

### LED

- Linear LED arrays are integrated in trim perimeter
- Color Temperature: 2700K, 3000K, 3500K, 4000K
- CRI options: 80 and 90
  - 90 CRI can be used for California Title 24 compliance/certified to Title 20
  - 80 CRI can be used to comply with California Title 24 Non-Residential Lighting Controls as a LED luminaire.

### WARRANTY

Cooper Lighting provides a five year limited warranty on the SLD LED

### LED CHROMATICITY

- A tight chromaticity specification ensures LED color uniformity, sustainable Color Rendering Index (CRI) and Correlated Color Temperature (CCT) over the useful life of the LED
- LED chromaticity of 3 SDCM exceeds ENERGY STAR® color standards per ANSI.
- 90 CRI model features high color performance with R9 greater than 50
- Every Halo LED is quality tested, measured, and serialized in a permanent record to register lumens, wattage, CRI and CCT.
- Halo LED serialized testing and measurement ensures color and lumen consistency on a per-unit basis, and validates long-term product consistency over time

### ELECTRICAL CONNECTIONS Junction Box

- Compatible with 4" x 2-1/8" deep square boxes
- Supply Wire Adapter with LED quick connector included
- LED connector is a non-screwbase luminaire disconnect for tool-less installation

### Optional - Recessed Housings

- Accessory SLD6ACCKIT required.
- LED connector is compatible with Halo 5" H550 Series and 6" H750, H2750 Series LED Housings
- LED Connector meets California Title-24 high-efficacy luminaire standard as a non-screw base



## SLD6 1200 UNV Series

### Universal Voltage

#### SLD6128xxWHUNVJB

80CRI

2700K, 3000K, 3500K, and 4000K

#### SLD6129xxWHUNVJB

90CRI

2700K, 3000K, 3500K, and 4000K

### 6" Surface LED Downlight

## High Lumen 1200 Series Universal Voltage 120V-277V

Suitable for ceiling or wall electrical junction boxes

### ENERGY DATA

	80 CRI	90 CRI
Lumens (4000K models)	1215	1000
Input Voltage	120V-277V	120V-277V
Frequency	50/60 Hz	50/60 Hz
Input Current	0.12 A	0.12 A
Input Power	14.8 W	14.8 W
Efficiency (4000K models)	82 lm/W	68 lm/W
THD	≤ 20%	
Power Factor	≥ 0.90	
T Ambient	-30 - +40°C	
Sound Rating	Class A	

### NOMENCLATURE

#### SLD612 8 30 WH UNV JB

612 = 6" SLD 1200 Series

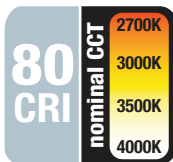
8 = >80 CRI

30 = 3000K

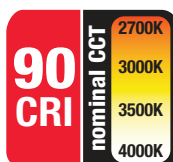
WH = Matte White

UNV = Universal Voltage 120V-277V

JB = Junction Box Kit only



Refer to ENERGY STAR® Certified Products List. Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.



Refer to ENERGY STAR® Certified Products List. Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.