VII.B.

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

Planning Commission Staff Report

Project Type: Site Development Section Plan

Meeting Date: October 13, 2014

From: John Boyer
Senior Planner

Location: 600 Spirit Valley East Drive

Applicant: ACI Boland Architects and Stock & Associates Consulting Engineers, Inc.

Description: **Spirit Valley Business Park, Lot 7 (Site Development Section Plan – The Place):** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 2.9 acre tract of land zoned "PI" Planned Industrial District located southeast of the intersection of Spirit Valley West Drive and Spirit Valley Central Drive.

PROPOSAL SUMMARY

The request is for construction of a 53,582 square foot luxury automotive/watercraft storage facility. The subject site is zoned "PI" Planned Industrial District and is governed under the terms and conditions of City of Chesterfield Ordinance 2745.

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 Industrial District in June of 2007 under the terms and conditions of the City of Chesterfield Ordinance 2373. In May of 2013, the ordinance was amended to allow for an additional permitted use of kennels to the "Animal hospital, veterinary clinics and kennels" use.

SURROUNDING ZONING

Direction	Land Use	Zoning
North	Vacant	"PI" Planned Industrial District
South	Spirit of St. Louis Airport	"M-3" Planned Industrial District
East	Vacant	"PI" Planned Industrial District
West	Vacant	"PI" Planned Industrial District

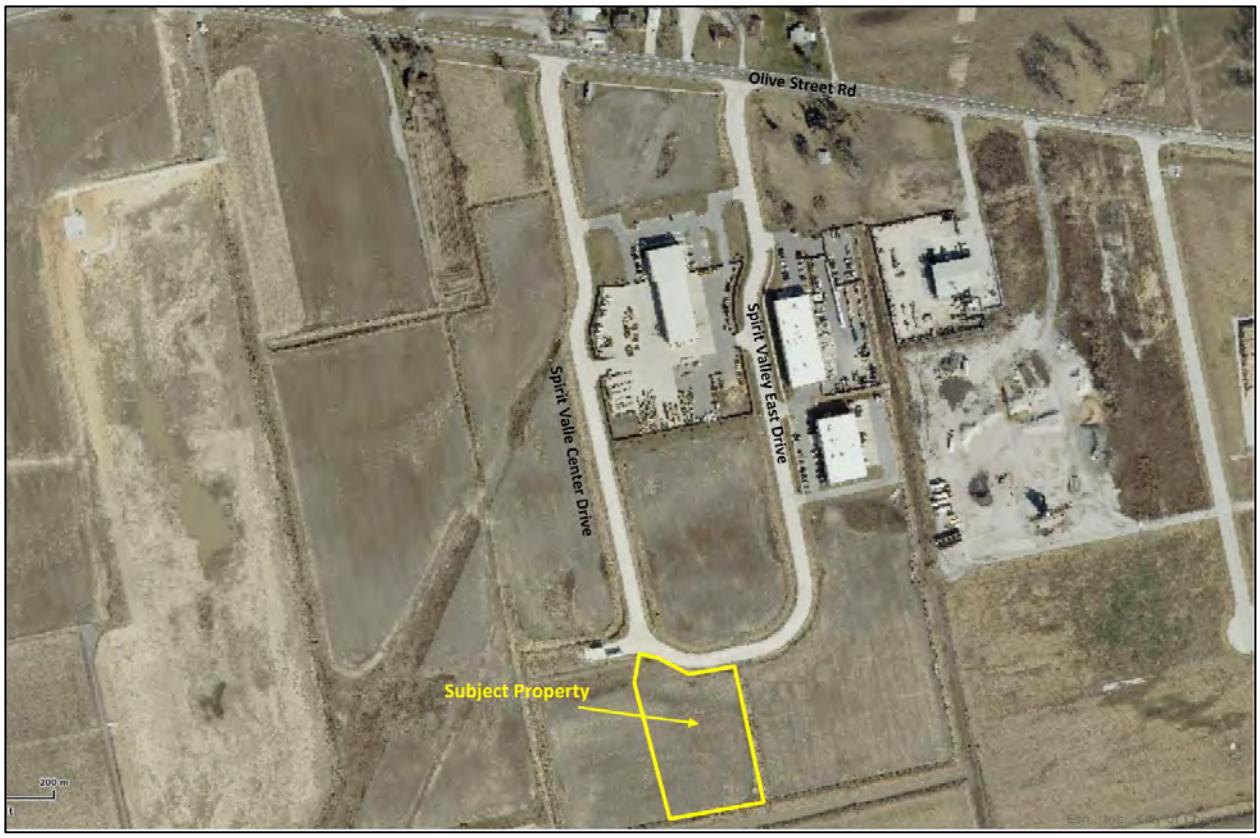

Figure 1: Aerial Photo

STAFF ANALYSIS

Zoning

The subject site is currently zoned "PI" Planned Industrial District under the terms and conditions of the City of Chesterfield Ordinance Number 2745. The submittal was reviewed against the requirements of the governing ordinance and all applicable Unified Development Code requirements.

Site Relationship

This is a 2.9 acre tract located on the south end of the Spirit Valley Business Park development. The 53,582 square feet of structure is split into two buildings: an interior unit and a second unit which wraps around the perimeter of the parcel in a backward "C" shape.

Traffic Access & Circulation

Proposed access to the site will be via a shared entrance point between the subject site and Lot 6 to the west compliant with the approved Amended Site Development Concept Plan. Parking for the facility will be in the front near the entrance. Internal access is provided via a private drive which will serve the facility.

Parking

As mentioned in the above Traffic Access & Circulation section, parking is proposed near the entrance to the parcel. All parking depicted on the submitted Site Development Section Plan is compliant with the City Unified Development Code for the proposed use of car and boat storage only.

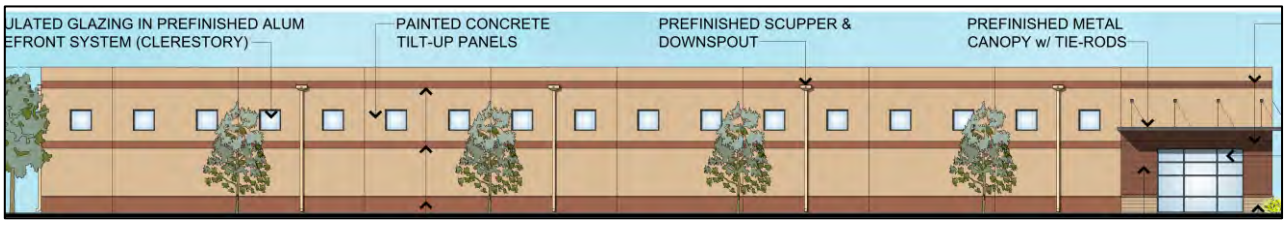

Figure 2: Exterior Elevation

Figure 3: Interior Elevation

Architectural Elevations

The applicant is proposing two twenty-eight (28) foot one-story structures similar in height and scale with other existing structures within the development. Concrete tilt-up panels will be used with exterior elevations banded with complementary colors which visually reduce the overall height of the building. Example of the banding can be seen above in Figure 2. The interior of the elevations will utilize masonry bases and brick veneer in addition to the tilt-up concrete design. Figure 3 above represents the proposed interior elevation. The office corner in the lower right hand of Figure 2 indicates that the brick and masonry element is planned to wrap to the northern elevation signifying the entrance/office element of this planned structure. Mechanical equipment will be roof mounted and will be screened by a parapet.

Elevations associated with this planned development were reviewed by the Architectural Review Board (ARB) on August 14, 2014. No amendments were made by the ARB and the application was recommended for approval as submitted to the Planning Commission 5-0.

Landscaping, Screening and Fencing

All landscaping as identified on the submitted Landscape Plan is compliant with the Tree Preservation and Landscape Requirements of the City of Chesterfield. A combination of deciduous, coniferous and shrubs/bushes have been utilized throughout the exterior of the site. The planned storm-water bio-retention on the north and south ends of the site is also planned to be landscaped per MSD requirements, which will add to the overall landscaping of this project. A trash enclosure is planned with this proposed construction. The enclosure, per the Statement of Design and Elevations, will match the material and color of the proposed main structure.

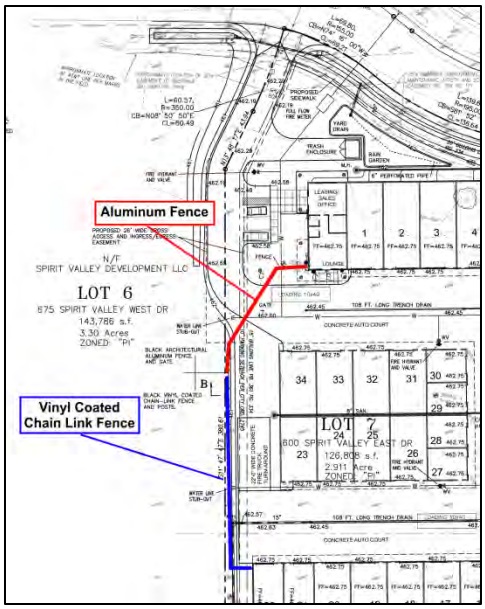

Figure 4: Fence Material Exhibit

Two types of fencing material are proposed associated with this development; 1) a 6 foot black architectural aluminum fence with gate and 2) a 6 foot black vinyl coated chain-link fence(see Figure 4 for location of material change). The aluminum fence with gate portion will have the most public visibility, versus the

chain link fence which will border the site and provide a more utilitarian security purpose. The details of these materials can be seen on page SDSP-2 of the plan submittal. Both fence proposals are compliant with the Unified Development Code concerning fencing in an industrial area.

Lighting
Lighting is proposed to use a combination of wall mounted pack lights near the access points of the individual units interior to the site, decorative accent wall lighting near the office entrance (C) and one bollard light (D) with a similar decorative head as 'C' adjacent to the shared access point. All the wall pack lights would face downward and are compliant with City Code.

Details on planned site lighting are included for the Planning Commission's review and comment. All accent lighting proposed is compliant with City Code. The provided photometric plan indicates all lights are compliant with City of Chesterfield foot-candle standards.

DEPARTMENT INPUT
Staff has reviewed the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design. Staff has found the application to be in conformance with the site specific ordinance and all other applicable City of Chesterfield requirements. Staff recommends approval of the proposal as presented.

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

1) "I move to approve (or deny) the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Spirit Valley Business Park, Lot 7 (The Place)."

2) "I move to approve the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Spirit Valley Business Park, Lot 7 (The Place)…" (Conditions may be added, eliminated, altered or modified)

CC: Aimee Nassif, Planning and Development Services Director

Attachments: Architect's Statement of Design
Site Development Section Plan
Landscape Plan
Architectural Elevations
Lighting Plan

July 16, 2014

ACI BOLAND ARCHITECTS – ST. LOUIS
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Aimee Nassif, AICP
Planning and Development Services Director
City of Chesterfield
690 Chesterfield Parkway West
Chesterfield, Missouri 63005

Re: Spirit Valley Business Park, Lot 7 (The Place) - Chesterfield, Missouri
ACI Boland Project No. 214039

Dear Ms. Nassif:

We are pleased to submit the following project to The City of Chesterfield Architectural Review Board for their consideration. We have included in this Statement of Design listed below regarding how we plan to address each of the pertinent design standards as part of the design submittal requirements.

STATEMENT OF DESIGN INTENT

General Requirements for Site Design

Site Relationship

The building is situated on Spirit Valley West south of Olive Street Road and north of the Spirit of St. Louis Airport. The facility entrance will face Spirit Valley West to the north. The entrance to this development will utilize a single curb-cut entrance on Spirit Valley West. This single curb-cut entrance will allow for entrance to Lot 6 to the west in the future to limit the curb-cuts on Spirit Valley West.

Circulation System and Access

The building is situated in the middle of the site with a single access drive into the facility. The visitor parking is located on the west side of the building before the security gate with a landscaped foreground area to help buffer the building sales entrance from the visitor parking area. The accessible parking spaces are located directly in front of the building allowing easy and safe access without needing to cross any drive lanes. Inside the secured area of the facility the access drive is a “U” shape with a paved fire truck turn-around provided for the Monarch Fire Department at their request.

Topography

The existing site is relatively flat and vacant. The site has no substantial vegetation worth retaining currently. A portion of the Monarch Levee Drainage System is located to the south of the lot.

Retaining Walls

We are currently not proposing the use or need of any site retaining walls in this project at this time.

General Requirements for Building Design

Scale

These single story buildings are designed in scale to complement the other existing buildings in the Spirit Valley Business Park. The buildings have been carefully designed with the use of several horizontal accent bands to reduce the scale of the building from the street and throughout the facility. We have also incorporated metal canopies at the building entrances and at each of the condominium entrances help achieve the sense of human scale.

Design

The two buildings will be a single story condominium development constructed of concrete tilt-up panels. The "exterior" of the development with be mainly painted concrete panels to provide for some discretion and privacy as to the nature of the development. The entrance corner and the "interior" of the development will be brick veneer, masonry bases, glass storefronts and painted concrete panels above the prefinished metal canopies and overhead doors. We have also included the use of clerestory windows around the exterior perimeter to allow for natural light into each of the spaces. All the faces of the building have been designed to be coordinated in regards to the material and detailing. The building will also include an extended parapet to screen the mechanical equipment on the roof of the structure.

Materials and Colors

The exterior design will be predominantly brick veneer while incorporating masonry bases into the look of the building to create an elegant and sophisticate appearance to complement the owners of each of the condominium spaces available. We are also planning to use prefinished metal canopies at the entry elements. The full-height window openings along the north, west and south side will be insulated tinted glass in prefinished aluminum storefront. All of the materials have been selected to be subdued and reserved.

Please refer to the exterior rendering and the larger material samples to be submitted at the Architectural Review board meeting.

Landscape Design and Screening

The site has been carefully landscaped with trees and other scrubs/plantings to compliment the scale and reduce the impact of the building from Spirit Valley West Drive and create a consistent theme throughout the development. The building will also include a landscaped area near the front doors to create an inviting plaza area for the visitors. We have also landscaped the two Metropolitan Sewer District's required water quality sand bed filter on the north and south side of the site to compliment the entire development and create pleasing environment.

Please refer to the submitted Landscape Plan for more information.

The building's trash container will be screened from vision by the use of screen walls, gates and evergreen trees. The enclosure will be constructed to give the feel of a unified consistent appearance through the use of matching materials to the building. The enclosure will have wood sight-proof swing gates that will face the west, away from all of the vehicle traffic to the north.

Signage

We understand that signage review is not part of this process and is will be reviewed at a later date if the owner wishes to incorporate any signage as part of the development. Any signage submitted at that time will be designed to meet the City of Chesterfield Code.

Lighting

We understand that site lighting is not part of the Architectural Review Board submittal and is reviewed through a separate process. We have however included a Site Lighting Plan and fixture cut-sheet for your reference.

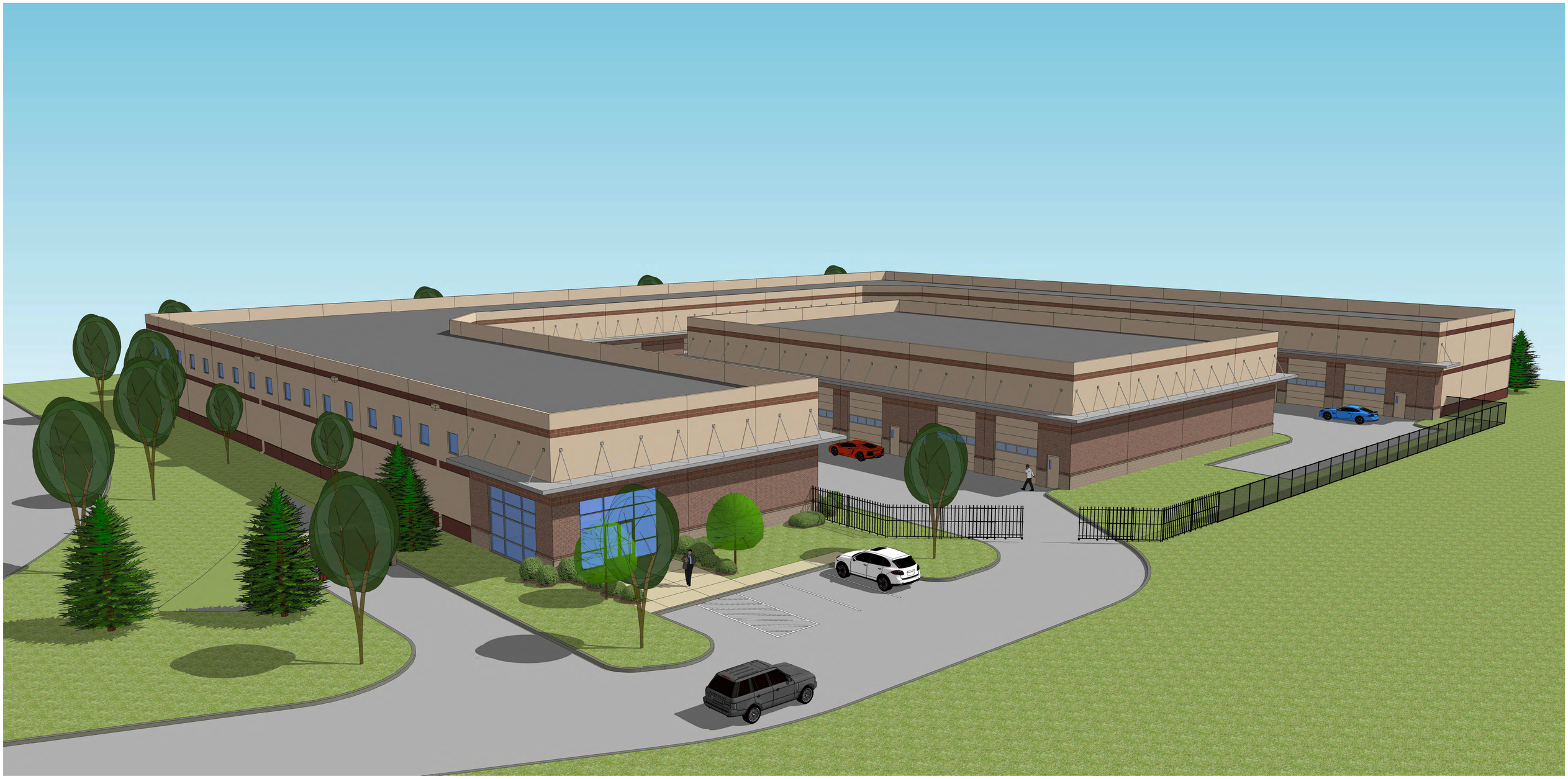
Once again, we are please to be continuing our relationship with the City of Chesterfield through the development of your wonderful city. If should need any additional information or have questions, please feel free to call me.

Respectfully Submitted,

ACI Boland Architects

Kristopher T. Mehrtens, LEED AP
Project Manager

Attachments:
City of Chesterfield – Architectural Review Board Project Statistics and Checklist



ARCHITECTURAL RENDERING

OVERALL AERIAL VIEW

214039 - 07.16.2014

KEYSTONE
QUALITY DESIGN/BUILD CONSTRUCTION

The Place

600 Spirit Valley East Drive
Chesterfield, Missouri 63005

11477 Olde Cabin Road | Suite 100
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T: 314.991.9993
aciboland.com

ACI BOLAND ARCHITECTS

ARCHITECTURAL RENDERING

SALES ENTRY / VISITOR PARKING AREA

214039 - 07.16.2014

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ARCHITECTURAL RENDERING

INTERIOR MOTORCOURT AREA

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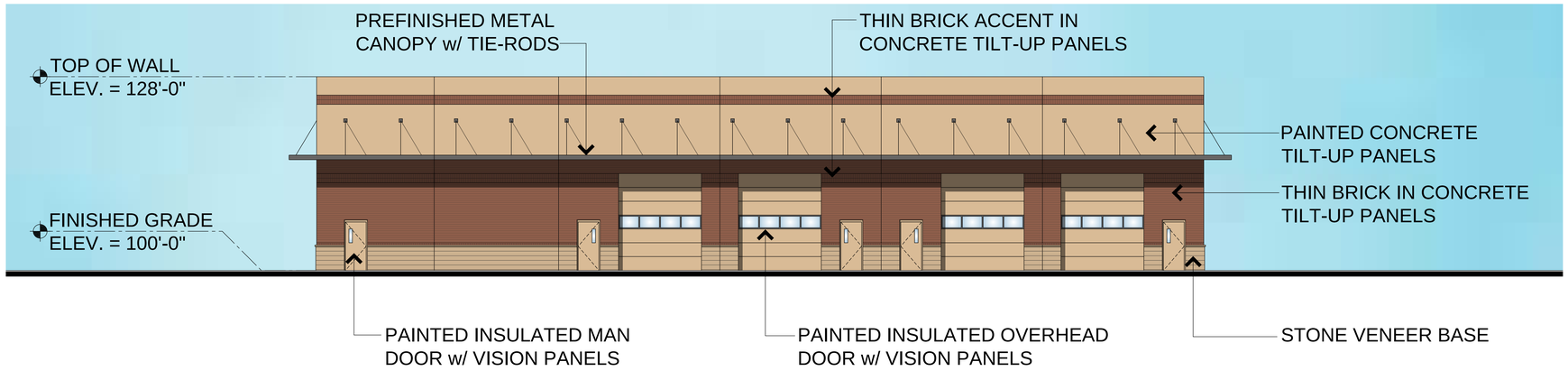
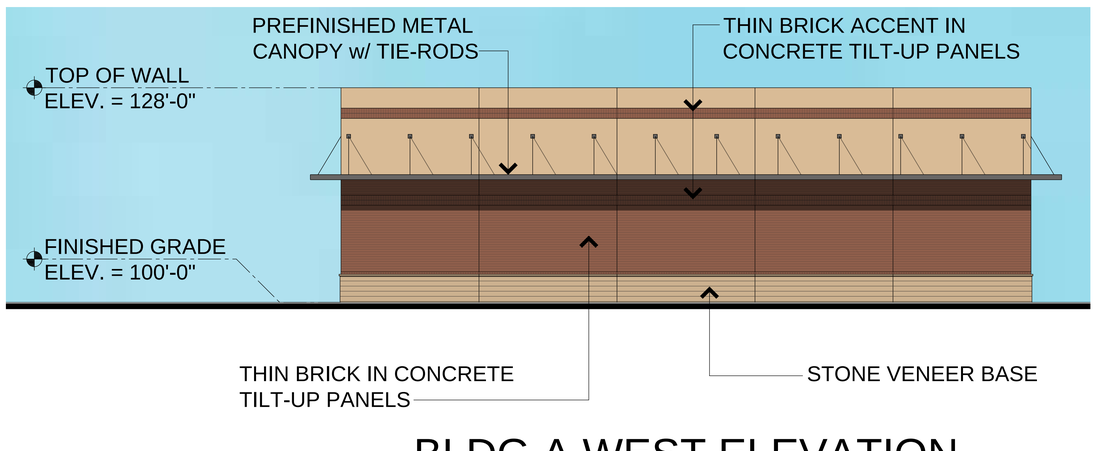
BOLAND
ARCHITECTS



BLDG A NORTH ELEVATION

SCALE: 1/8" = 1'-0"



BLDG A WEST ELEVATION

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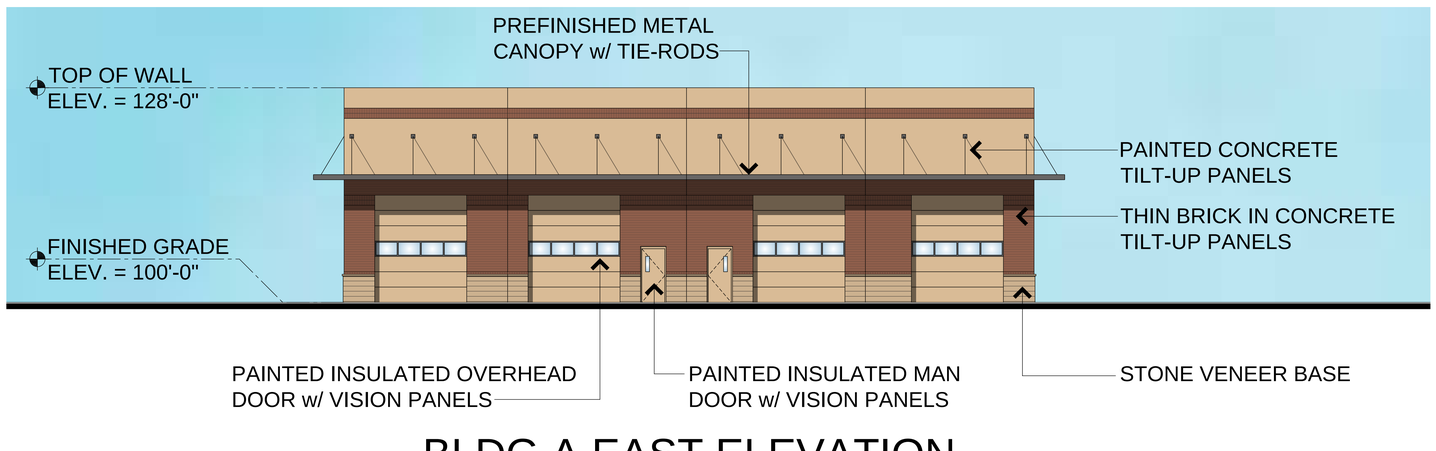

BLDG A EAST ELEVATION

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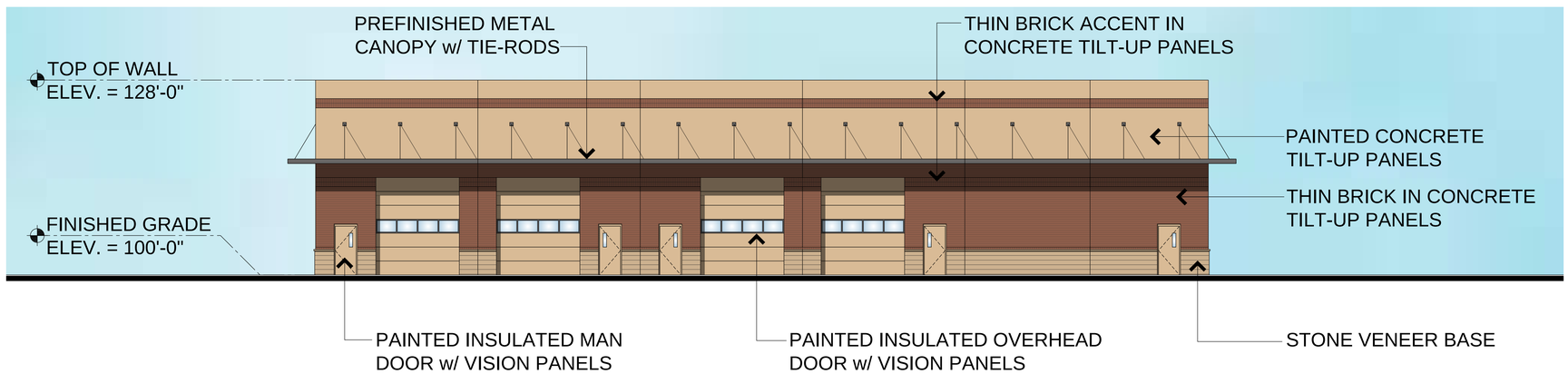
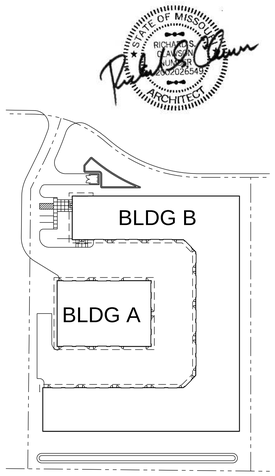


BLDG A SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



SITE KEY PLAN

NOT TO SCALE

214039 - 07.16.2014

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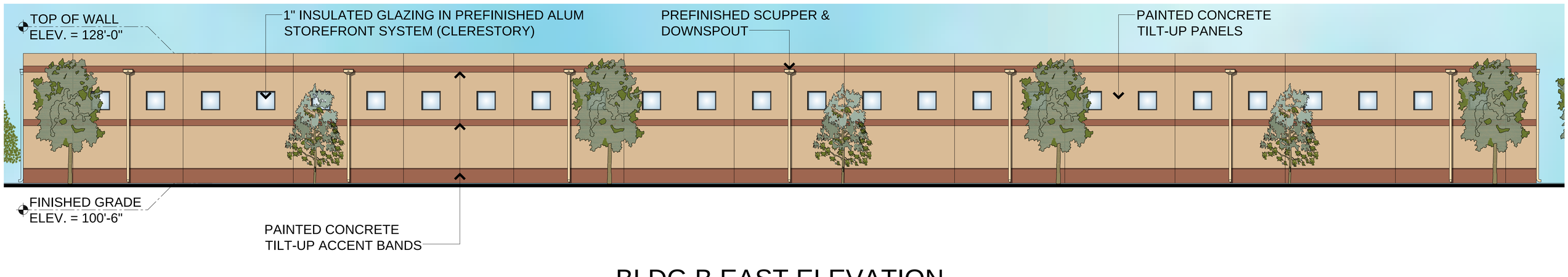
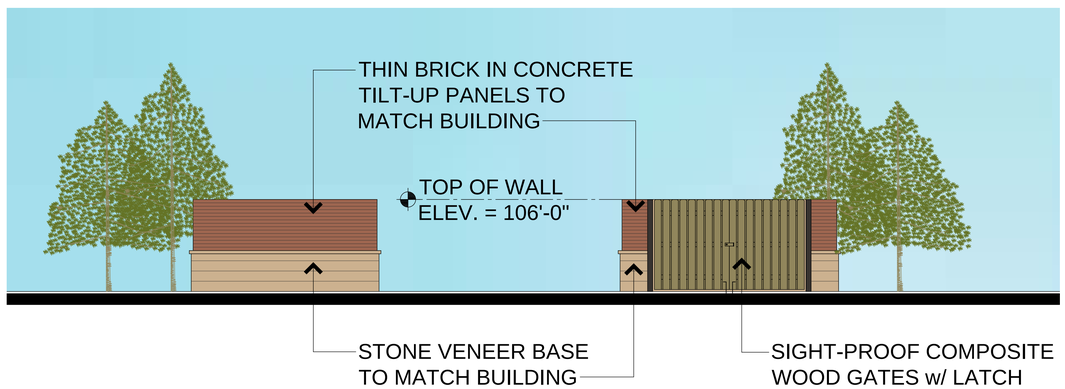


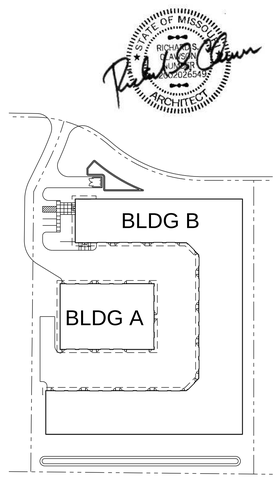
BLDG B EAST ELEVATION

SCALE: 1/8" = 1'-0"



TRASH ENCLOSURE ELEVATION

SCALE: 1/4" = 1'-0"



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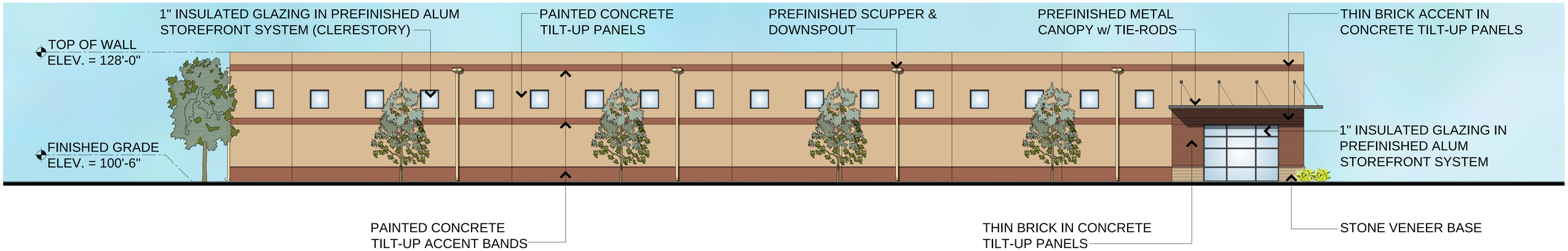

BLDG B NORTH ELEVATION

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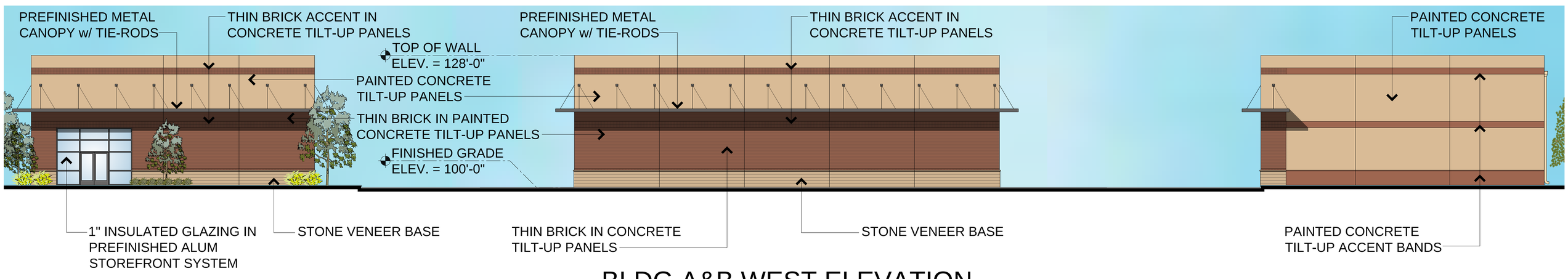

BLDG A&B WEST ELEVATION

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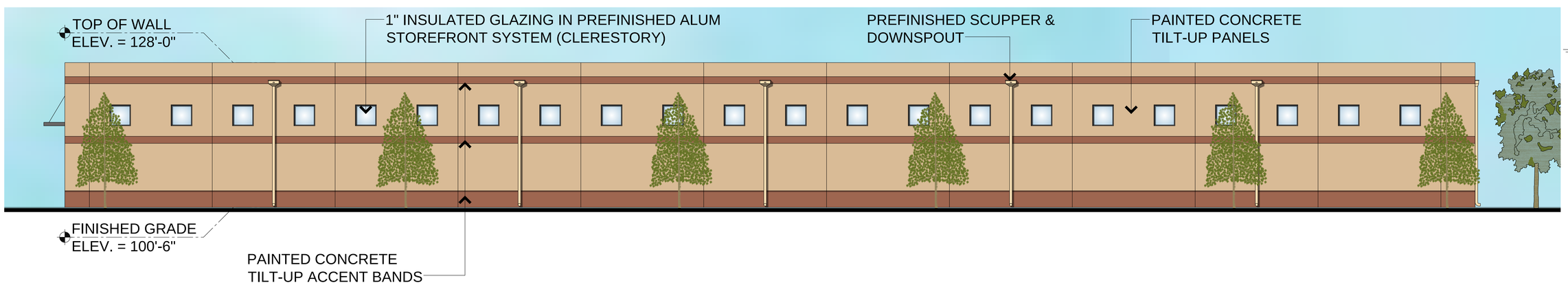

BLDG B SOUTH ELEVATION

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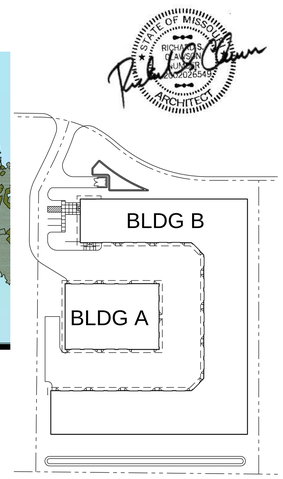

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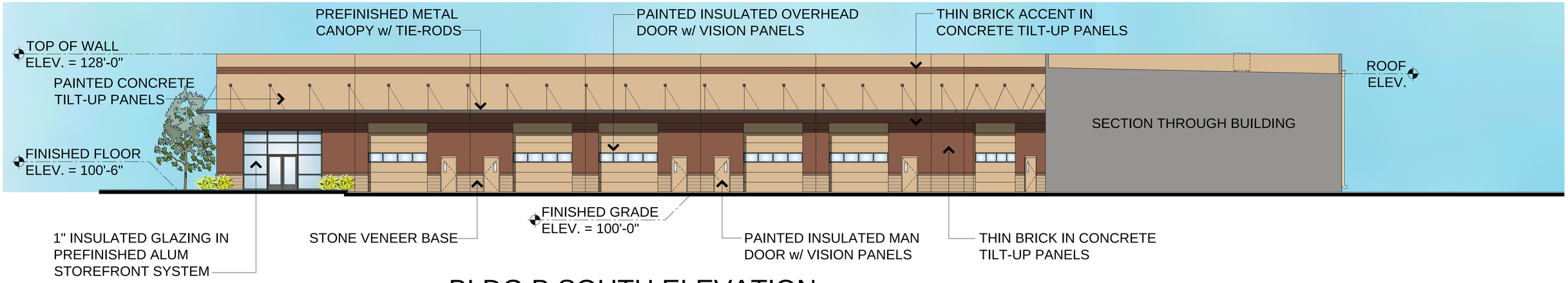

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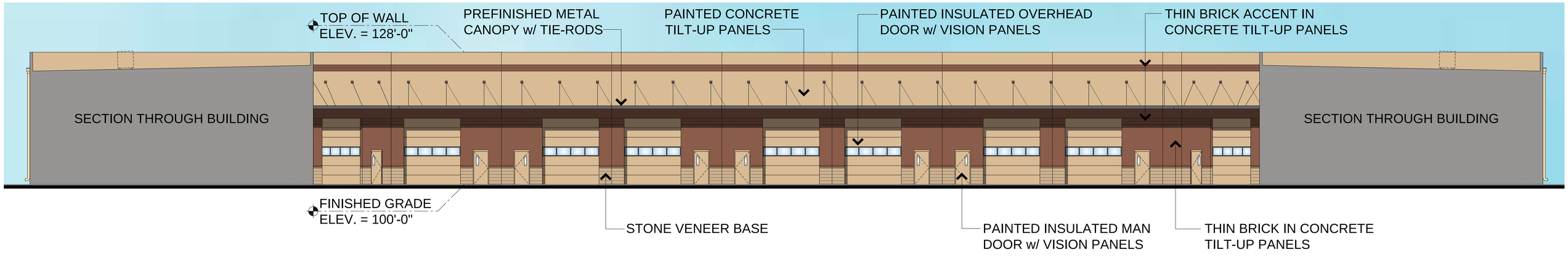

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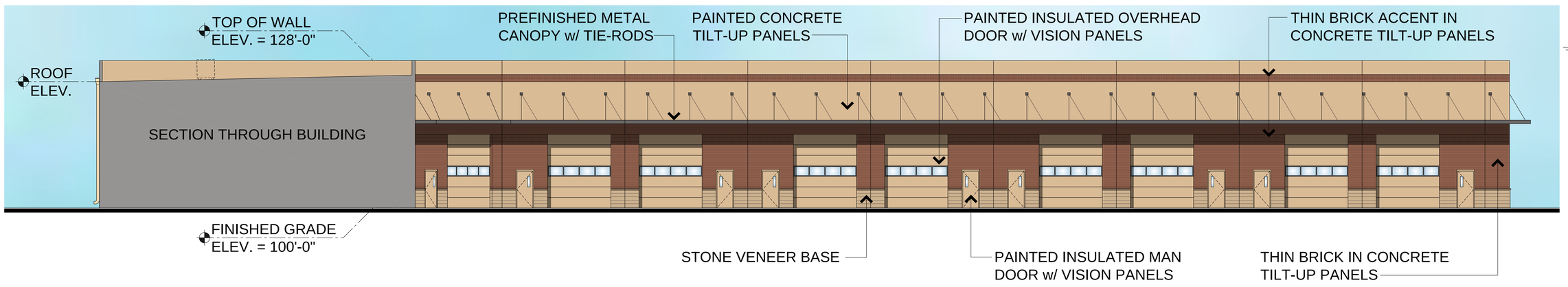

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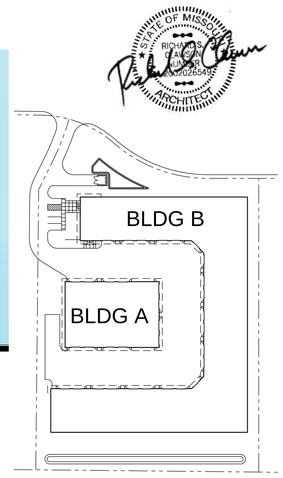

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THE PLACE - LOT 7 OF SPIRIT VALLEY BUSINESS PARK - SITE DEVELOPMENT SECTION PLAN

A TRACT OF LAND BEING LOT 7 OF SPIRIT VALLEY BUSINESS PARK
AS RECORDED IN PLAT BOOK 356, PAGE 177
TOWNSHIP 45 NORTH, RANGE 3 EAST OF THE 5TH PRINCIPAL MERIDIAN
CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

LEGEND

EXISTING CONTOURS	120
PROPOSED CONTOURS	120
EXISTING SANITARY SEWERS	
EXISTING STORM SEWERS	
PROPOSED SANITARY SEWERS	
PROPOSED STORM SEWERS	
EXISTING RIGHT-OF-WAY	
PROPOSED RIGHT-OF-WAY	
CENTERLINE	
EASEMENT	
NOTES PARKING SPACES	(18)
GUY WIRE	
EXISTING SPOT ELEVATION	+ EX. 120.15
PROPOSED SPOT ELEVATION	+ 120.10
SWALE	
TO BE REMOVED	T.B.R.
TO BE REMOVED & RELOCATED	T.B.R. & R.
TO BE USED IN PLACE	U.I.P.
BACK OF CURB	B.C.
FACE OF CURB	F.C.
TRASH ENCLOSURE	
EXISTING LIGHT STANDARD	
GAS MAIN	G
WATER MAIN	W
UNDERGROUND TELEPHONE	T
UNDERGROUND TELEPHONE	E

ABBREVIATIONS

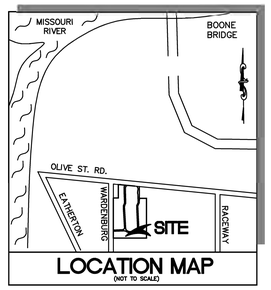
W	– WATER	DB	– DEED BOOK
E	– ELECTRIC	PB	– PLAT BOOK
OE	– OVERHEAD ELECTRIC	PG	– PAGE
UE	– UNDERGROUND ELECTRIC	(_'W)	– RIGHT-OF-WAY WIDTH
G	– GAS	(REC)	– RECORD INFORMATION
T	– TELEPHONE	FT	– FEET
TBR	– TO BE REMOVED	N/F	– NOW OR FORMERLY
TBR & R	– TO BE REMOVED AND REPLACED	FND	– FOUND
UIP	– USE IN PLACE	SQ	– SQUARE
ATG	– ADJUST TO GRADE	CO	– CLEANOUT
BC	– BACK OF CURB	MH	– MANHOLE
FC	– FACE OF CURB	AI	– AREA INLET
TW	– TOP OF WALL	CI	– CURB INLET
BW	– BOTTOM OF WALL	GI	– GRATE INLET
PVMT	– PAVEMENT	YD	– YARD DRAIN
ASPH	– ASPHALT	PVC	– POLYVINYL CHLORIDE PIPE
CONC	– CONCRETE	RCP	– REINFORCED CONCRETE PIPE
GRND	– GROUND	CMP	– CORRUGATED METAL PIPE
FG	– FINISHED GRADE	VCP	– CLAY PIPE
FF	– FINISHED FLOOR	FL	– FLOWLINE
LL	– LOWER LEVEL	TS	– TAILSTAKE
TT	– TOP OF TURF	ELEV, EL	– ELEVATION
TC	– TOP OF CURB	PROP, PR	– PROPOSED
SG	– SUBGRADE	EXIST, EX	– EXISTING
MG	– METHANE GAS	TYP	– TYPICAL
		BMP	– BEST MANAGEMENT PRACTICES
		SWPPP	– STORMWATER POLLUTION PREVENTION PLAN

BENCHMARK

SL-40: BRASS DISC STAMPED "SL-40, 1990" ON THE NORTH SIDE OF NORTH OUTER 40 RD, ACROSS FROM THE INTERSECTION OF SPIRIT OF ST. LOUIS BOULEVARD. ELEV.=486.55

SITE BENCHMARK

ELEV.=461.90
FND. IRON PIPE AT THE NORTHWEST CORNER OF SITE AS SHOWN HEREON.



LOCATION MAP
(NOT TO SCALE)

SHEET INDEX

SITE INFORMATION

ADDRESS LOT 7	= 600 SPIRIT VALLEY EAST DRIVE CHESTERFIELD, MO 63005
SITE AREA	= LOT 7: 2.911 ACRES
OWNER	= SPIRIT VALLEY DEVELOPMENT, LLC
OWNER UNDER CONTRACT	= SR PROPERTIES IV, LLC
CITY	= CITY OF CHESTERFIELD
ZONING	= "PI" PLANNED INDUSTRIAL
FLOOD MAP	= 29189C0120H
SEWER DISTRICT	= MSD
WATERSHED	= MISSOURI RIVER
FIRE DISTRICT	= MONARCH CHESTERFIELD
SCHOOL DISTRICT	= ROCKWOOD R-6
ELECTRIC SERVICE	= AMEREN
GAS SERVICE	= LACLEDE GAS
PHONE SERVICE	= ATT
WATER SERVICE	= MO. AMERICAN WATER CO.
CABLE SERVICE	= CHARTER COMMUNICATIONS

NOTES

1. BOUNDARY AND TOPOGRAPHICAL SURVEY BY STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC. (BASIS OF BEARINGS: MISSOURI STATE PLANE, GRID NORTH)
2. SUBJECT PROPERTY LIES WITHIN FLOOD ZONE "X" (AREAS OF 500-YEAR FLOOD; AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 100-YEAR FLOOD) ACCORDING TO THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP FOR ST. LOUIS COUNTY, MISSOURI AND INCORPORATED AREAS PER MAP NO. 29189C0120 H WITH AN EFFECTIVE DATE OF AUGUST 2, 1995 AND REVISED TO REFLECT LOMR DATED APRIL 17, 2000. (APPROXIMATE 100 YR. EL. 460 PER CHESTERFIELD MASTER PLAN MODEL)
3. ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED. SHOULD ANY CONFLICTS BE EVIDENT, THE CONTRACTOR SHALL NOTIFY THE OFFICE OF THE ENGINEER IMMEDIATELY.
4. ON-SITE STORM WATER DRAINAGE REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CHESTERFIELD VALLEY MASTER STORM WATER DRAINAGE PLAN AND AS DIRECTED BY THE CITY OF CHESTERFIELD AND MSD.
5. ALL PROPOSED UTILITIES SHALL BE CONSTRUCTED TO THE CITY OF CHESTERFIELD STANDARDS.
6. ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH THE CITY OF CHESTERFIELD AND MSD STANDARDS.
7. STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
8. THE MAXIMUM HEIGHT OF BUILDINGS SHALL NOT EXCEED FORTY (40) FEET.
9. THIS SITE DEVELOPMENT SECTION PLAN WILL ADHERE TO THE PARKING AND LOADING REGULATIONS OF THE CITY OF CHESTERFIELD CODE.
10. NO PARKING SHALL BE PERMITTED ON ANY ROADWAY IN OR ADJACENT TO THE DEVELOPMENT AS REQUIRED BY THE SITE SPECIFIC ORDINANCE.
11. ALL UTILITIES WILL BE INSTALLED UNDERGROUND. THE DEVELOPMENT OF THIS PARCEL WILL COORDINATE THE INSTALLATION OF ALL UTILITES IN CONJUNCTION WITH THE CONSTRUCTION OF ANY ROADWAY.
12. SIGNAGE IN ACCORDANCE WITH THE REQUIRED SPIRIT VALLEY SIGN PACKAGE SHALL BE PROVIDED FOR THIS LOT.
13. ALL LIGHTING SHALL CONFORM TO THE LIGHTING ORDINANCE OF THE CITY OF CHESTERFIELD
14. PLANS SUBJECT TO CHANGE PENDING AGENCY REVIEWS AND FINAL ENGINEERING.
15. ALL UTILITY BOXES, INCLUDING TRANSFORMERS AND METERS, EXCEPT WHEN FLUSH WITH GROUND, WILL BE SCREENED AS REQUIRED BY CITY OF CHESTERFIELD CODE (APPENDIX A. SECTION 1003.177.11(D).

PARKING CALCULATIONS

REQUIRED PARKING:

(MAXIMUM)
WAREHOUSE: 2 SPACES FOR EVERY 3 EMPLOYEES ON THE MAXIMUM SHIFT (0 EMPLOYEES = 0 SPACES)

TOTAL PERMITTED (MINIMUM): 0 SPACES

(MINIMUM)
WAREHOUSE: 1.2 SPACES PER EMPLOYEE ON THE MAXIMUM SHIFT (0 EMPLOYEES = 0 SPACES)

TOTAL PERMITTED: 0 SPACES

TOTAL PROVIDED (VISITORS): 4 SPACES (1 ACCESSIBLE)

REQUIRED LOADING: 10x40 LOADING SPACE (3)

TOTAL REQUIRED: 3 SPACE
TOTAL PROVIDED: 3 SPACE

OPENSPACE CALCULATIONS

TOTAL SITE AREA: 126,808 S.F.

BUILDING: 58,801 S.F.
VEHICLE PAVEMENT: 28,733 S.F.

PERCENT OPENSPACE:
[(126,808 – (58,801+28,733)) / 126,808] x 100 = 30.97%

_____, the owner under contract of the property
(Name of Owner(s))
shown on this plan for and in consideration of being granted a permit to develop property under the provisions of Chapter 1003.150
_____ P.I. _____ of the City of Chesterfield
(applicable subsection) (present zoning)
Ordinance No. 2745, do hereby agree and declare that said property from the date of recording this plan shall be developed only as shown thereon, unless said plan is amended by the Planning Commision, or voided or vacated by order of the City of Chesterfield Council.

(Signature): _____

(Name printed): _____

STATE OF MISSOURI }
} SS.
COUNTY OF ST. LOUIS}

On this _____ day of _____, A.D., 2014, before me personally appeared
_____, to me known, who, being by me duly sworn in, did say
(Officer of Corporation)
that say he/she is the _____ of _____,
(Title) (Name of Corporation)
a corporation in the State of Missouri, and that the seal affixed to the foregoing instruments is the corporate seal of said corporation, and that said instrument was signed on behalf of said corporation by authority of its Board of Directors, and the

_____
(Officer of Corporation)
acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have signed and sealed the foregoing the day and year first above written.

_____
Notary Public

_____
Print Name

My commission expires: _____

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

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

_____
Vickie Hass, City Clerk
City of Chesterfield, Missouri

SURVEYOR'S CERTIFICATION

THIS IS TO CERTIFY THAT STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC. HAS PREPARED THIS SITE DEVELOPMENT SECTION PLAN FROM A FIELD SURVEY AND DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY. THIS SITE DEVELOPMENT SECTION PLAN IS A CORRECT REPRESENTATION OF ALL EXISTING AND PROPOSED LAND DIVISIONS.

STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC.
L.S. No. 222-D

By: _____
DANIEL EHLMANN, MISSOURI L.S. NO. 2215

GEOTECHNICAL STATEMENT

SCI ENGINEERING, INC., at the request of Keystone Construction Company has provided geotechnical services for the project proposed hereon. A geotechnical investigation was conducted during June 2014 for the development proposed hereon. Our findings indicate that the earth-related aspects are suitable for the development proposed pursuant to the geotechnical recommendations set forth in our Geotechnical Report THE PLACE – PHASE I, CHESTERFIELD, MISSOURI, dated June 2014. (SCI No. 2012-0153.14)

_____
SHAWNNA L. ERTER, P.E.

_____
Date

PREPARED FOR:
SR PROPERTIES IV, LLC
616 SPIRIT VALLEY EAST DRIVE
CHESTERFIELD, MO 63005
ATTN: STEVE STODNICK / RANDY WILD
PHONE: 636-728-0580
SSTODNICK@PARAGONSTL.COM
RWILD@PARAGONSTL.COM

LANDOWNER: SPIRIT VALLEY DEVELOPMENT, LLC
8235 FORSYTH BOULEVARD, SUITE 210
ST. LOUIS, MO 63105
ATTN: DANIEL W. HAYES
PHONE: 314-994-4068
FAX: 314-994-4088
DHAYES@NAIDESCO.COM

PREPARED BY:
STOCK & ASSOCIATES Consulting Engineers, Inc.
257 Chesterfield Business Parkway
St. Louis, MO 63005 PH. (636) 530-9100 FAX (636) 530-9130
e-mail: general@stockassoc.com
Web: www.stockassoc.com

SITE DEVELOPMENT SECTION PLAN FOR:
THE PLACE - LOT 7 OF SPIRIT VALLEY BUSINESS PARK (2.911 Ac.±)
600 SPIRIT VALLEY EAST DRIVE
CHESTERFIELD, MISSOURI

STATE OF MISSOURI
GEORGE MICHAEL STOCK
NUMBER PE-25116
PROFESSIONAL ENGINEER
08/20/2014

GEORGE M. STOCK E-25116
CIVIL ENGINEER
CERTIFICATE OF AUTHORITY NUMBER: 000996

REVISIONS:

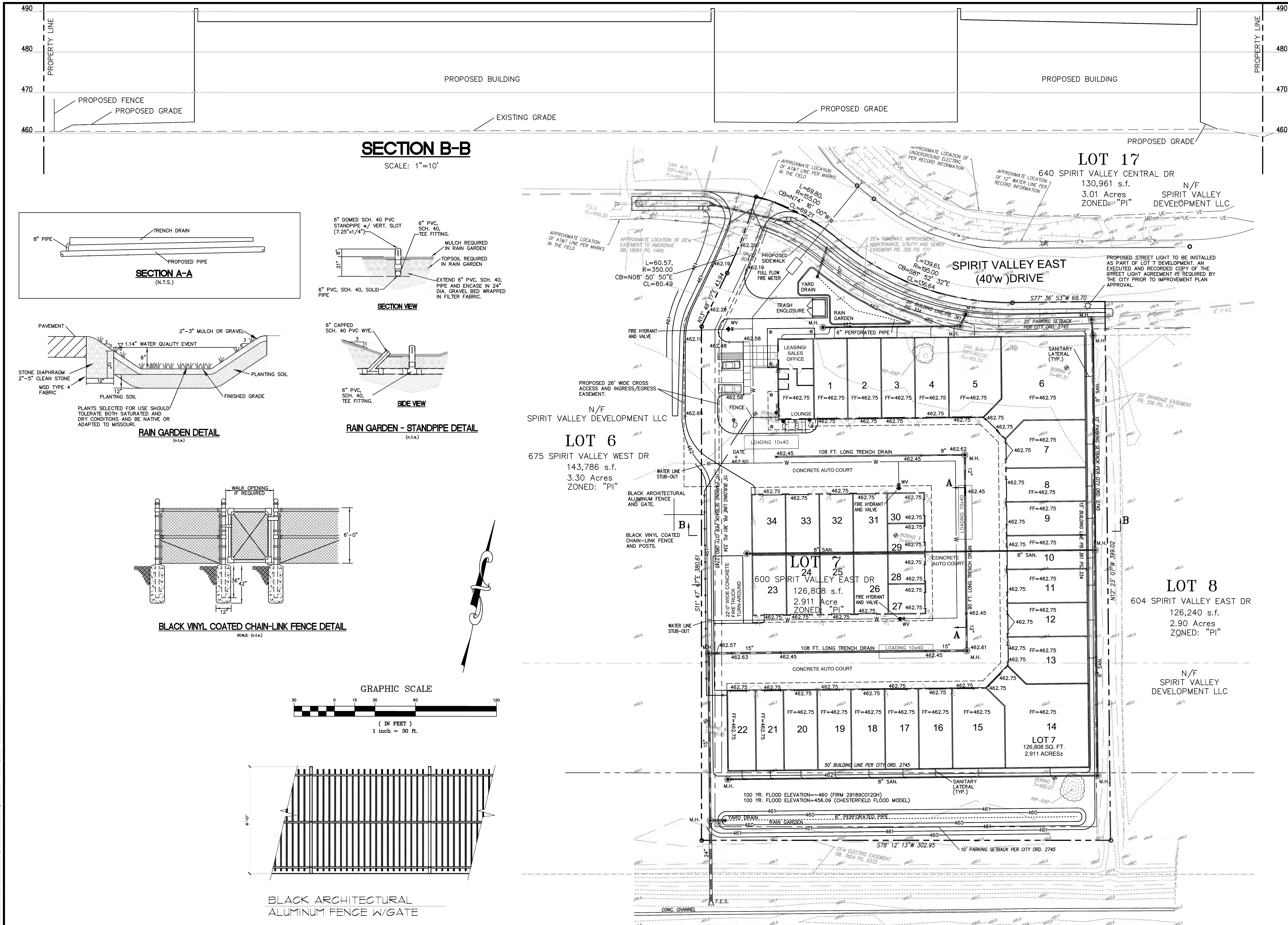
1	City Comments	06/27/14
2	City Comments	08/20/14

DRAWN BY: E.J.F.	CHECKED BY: G.M.S.
DATE: 06/06/2014	JOB NO: 214-5282
M.S.D. P #: P-XXXXX-XX	BASE MAP #: XXX
S.L.C. H&T #: XXXX	H&T S.U.P. #: XX-XXX-XX
M.D.N.R. #: MO-XXXXXXX	

SHEET TITLE: TITLE SHEET

SHEET NO.: SDSP-1

DRAWING FILE: C:\DRAWINGS\2014\5282\STOCK\Site Development Section Plan\5282-Base.dwg, LAYOUT: COVER, PLOTTED: Aug 20, 2014 - 9:39am, PLOTTED BY: Jim Richter



PREPARED BY:
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257 Chesterfield Business Parkway
St. Louis, MO 63005 PH. (636) 530-9100 FAX (636) 530-9130
e-mail: general@stockassoc.com
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SITE DEVELOPMENT SECTION PLAN FOR:

THE PLACE - LOT 7 OF SPIRIT VALLEY BUSINESS PARK (2.911 Ac.±)

600 SPIRIT VALLEY EAST DRIVE
CHESTERFIELD, MISSOURI

STATE OF MISSOURI
GEORGE MICHAEL STOCK
NUMBER PE-25116
PROFESSIONAL ENGINEER
09/03/2014

GEORGE M. STOCK E–25116
CIVIL ENGINEER
CERTIFICATE OF AUTHORITY
NUMBER: 000996

REVISIONS:

1	City Comments	06/27/14
2	City Comments	08/20/14
3	City Comments	09/03/14

DRAWN BY: E.J.F.	CHECKED BY: G.M.S.
DATE: 06/06/2014	JOB NO: 214–5282
M.S.D. P #: P–	BASE MAP #: –
S.L.C. H&T #: –	H&T S.U.P. #: –
M.D.N.R. #: MO–	

SHEET TITLE: SITE PLAN

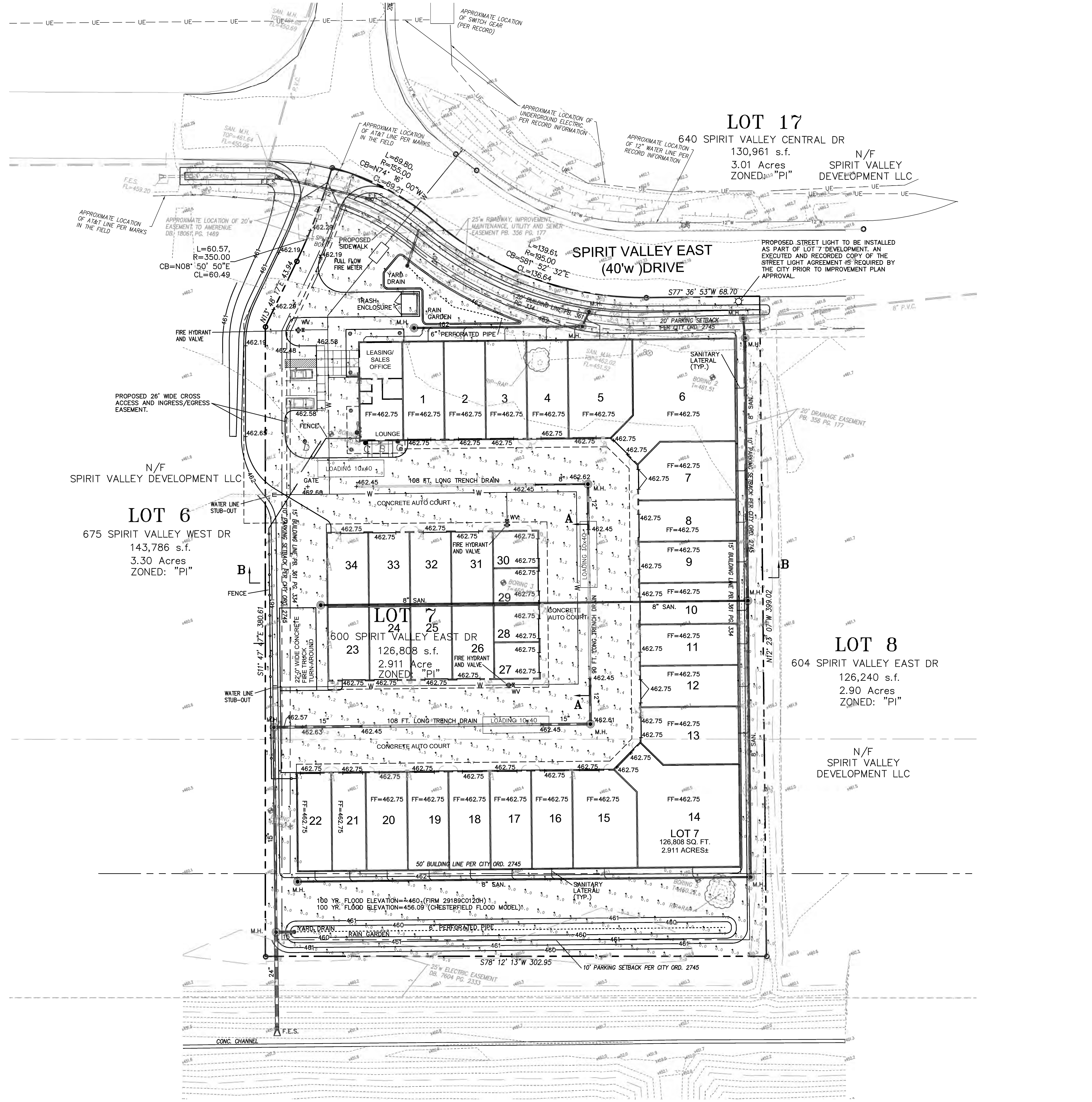
SHEET NO.: SDSP-2

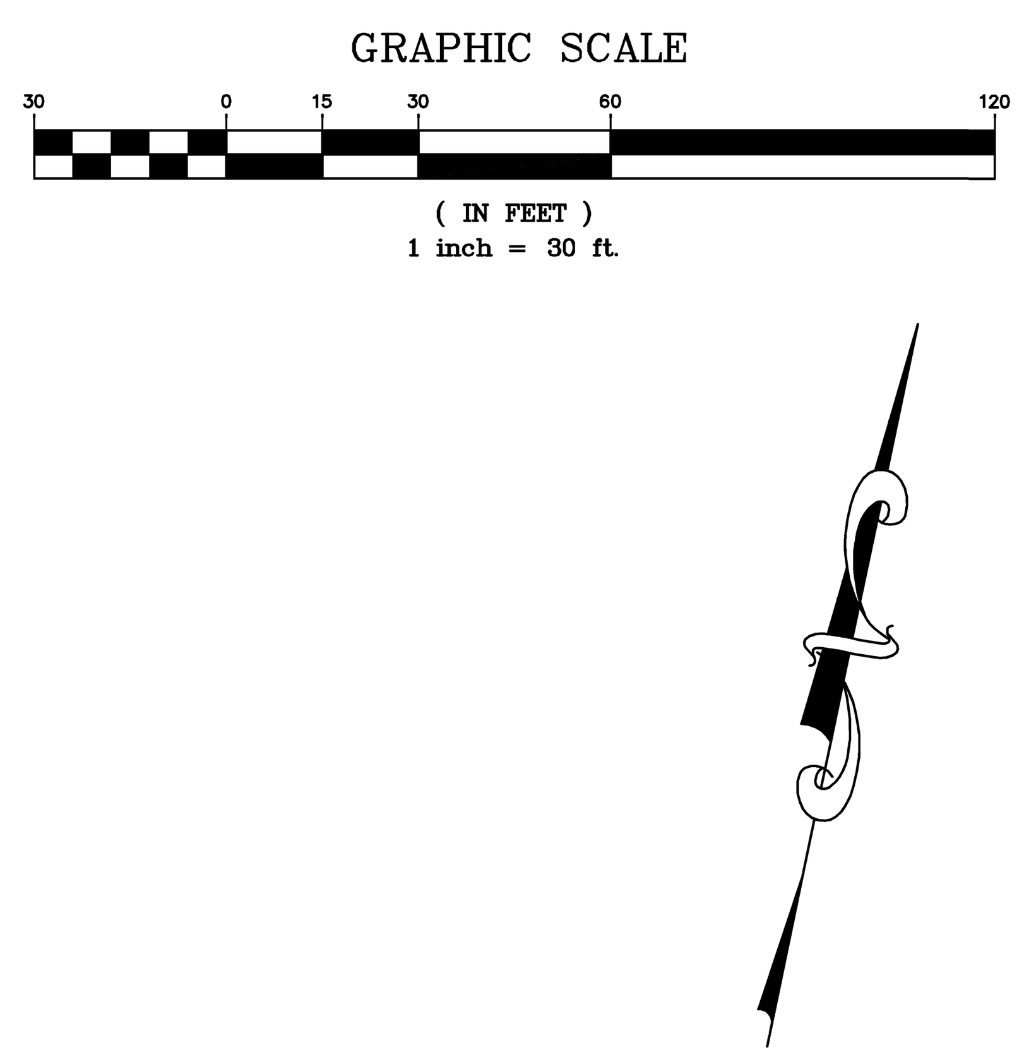
Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
All CalcPts	Fc	2.15	9.6	0.0	N.A.	N.A.
Drive	Fc	5.43	9.4	1.0	5.43	9.40
Main Entrance	Fc	2.51	5.5	1.0	2.51	5.50

Luminaire Schedule							
Symbol	Qty	Tag	Label	Description	Lum. Lumens	LLF	Lum. Watts
	21	A	WD18x3 250PMH	WALL MOUNTED AT 14' AFG	15458	0.720	250
	3	B	WD18x4 250PMH	WALL MOUNTED AT 22' AFG	13394	0.720	250
	3	C	BNM-36LED-3500K	DECORATIVE WALL MOUNT	1911	0.900	37.7
	1	D	BNB-36LED-3500K	42 INCH BOLLARD	1911	0.900	37.7

Filename: The Place Auto Storage (HID).AGI
Date:8/15/2014

Calculations Provided by Luikart-Eason-Calcaterra & Co.
11088 Millpark Dr. Suite 120 Maryland Heights, Mo. 63043
Phone: 314-298-7500 Fax 314-298-8508 www.lecltg.com





PREPARED BY:
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Consulting Engineers, Inc.
257 Chesterfield Business Parkway
St. Louis, MO 63005 PH. (636) 530-9100 FAX (636) 530-9130
e-mail: general@stockassoc.com
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SITE DEVELOPMENT SECTION PLAN FOR:

THE PLACE - LOT 7 OF SPIRIT VALLEY BUSINESS PARK (2.911 Ac.±)

600 SPIRIT VALLEY EAST DRIVE
CHESTERFIELD, MISSOURI

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CERTIFICATE OF AUTHORITY
NUMBER: 000996

REVISIONS:

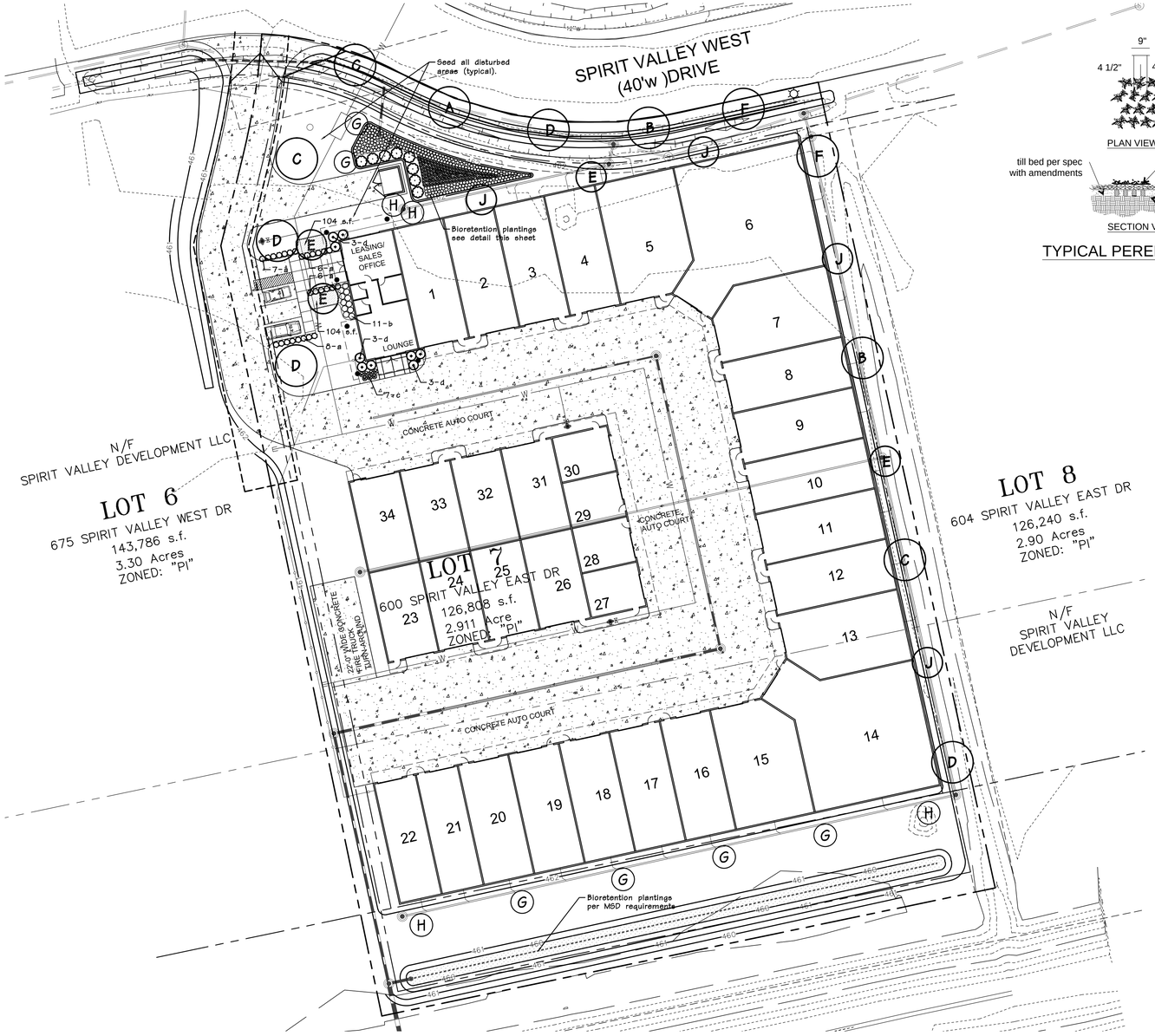
1	City Comments	06/27/14
2	City Comments	08/20/14

DRAWN BY: E.J.F.	CHECKED BY: G.M.S.
DATE: 06/06/2014	JOB NO: 214-5282
M.S.D. P #: P-XXXXX-XX	BASE MAP #: XXX
S.L.C. H&T #: XXXX	H&T S.U.P. #: XX-XXX-XX
M.D.N.R. #: MO-XXXXXXX	

SHEET TITLE:

PHOTOMETRIC PLAN

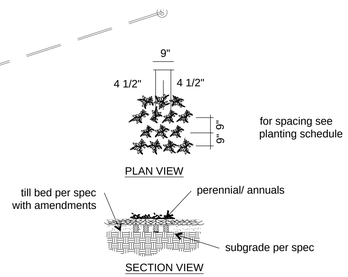
SHEET NO.: SDSP-3



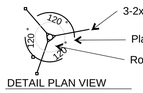
LANDSCAPE PLAN

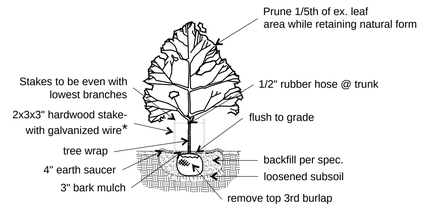
SCALE 1" = 30'

Open Space Percentage: 30.97%



TYPICAL PERENNIAL PLANTING

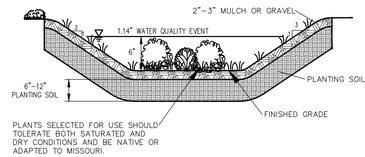




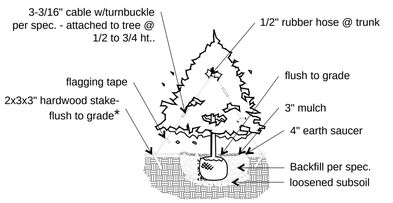
CANOPY TREE PLANTING

* Staking should only be done when:

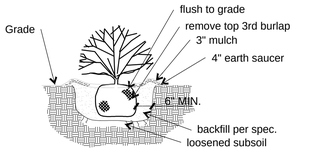
- Planting in soft, loose soils
- Root balls in sandy soils, or wet clay
- Trees located in an extremely windy location



BIORETENTION PLANTINGS (n.t.s.)

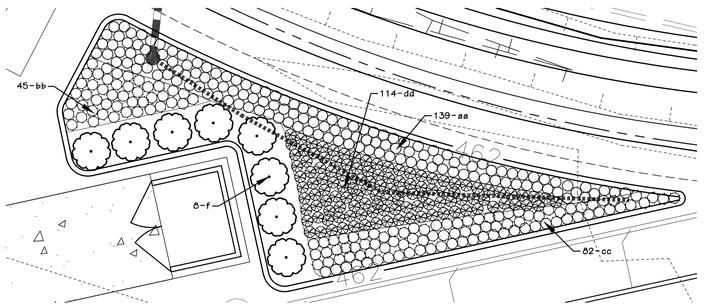


TYPICAL EVERGREEN PLANTING



SCARIFY ROOT BALL OF ALL CONTAINER STOCK

TYPICAL SHRUB PLANTING



BIORETENTION

SCALE1"=10'

PLANTING SCHEDULE

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	GROWTH RATE/SIZE CLASS	MATURE HT/FEET
TREES							
A	1	Acer rubrum 'Frankred'	Red Sunset Maple	2.5" cal	Deciduous	Fast/Large	45+
B	2	Quercus bicolor	Swamp White Oak	2.5" cal	Deciduous	Med/Large	45+
C	3	Tilia cordata	Littleleaf Linden	2.5" cal	Deciduous	Slow-Med/Large	45+
D	4	Zelkova serrata	Zelkova	2.5" cal	Deciduous	Fast/Large	45+
E	4	Cercis canadensis	Eastern Redbud	2.5" cal	Decid-Ornamental	Fast/Medium	25-30
F	2	Carpinus betulus 'Fastigiata'	Pyramidal European Hornbeam	2.5" cal	Deciduous	Slow/Medium	35-40
G	6	Pinus strobus	Eastern White Pine	6'	Evergreen	Fast/Large	45+
H	4	Picea glauca	White Spruce	6'	Evergreen	Med/Medium	30-40
J	4	Amelanchier arborea	Serviceberry	2.5" cal	Decid-Ornamental	Slow-Med/Medium	25-30
SHRUBS/PERENNIALS							
a	27	Buxus sinica var. insularis 'Wintergreen'	Wintergreen Boxwood	5 gal	Evergreen	-	-
b	11	Ilex 'China Girl'	China Girl Holly	5 gal	Evergreen	-	-
c	7	Buddleja Lo & Behold 'Blue Chip'	Blue Chip Dwarf Butterfly Bush	3 gal	Deciduous	-	-
d	9	Itea virginica 'Henry's Garnet'	Henry's Garnet Itea	5 gal	Deciduous	-	-
	208 s.f.	Annuals, perennials, groundcovers	-	1 qt	-	-	-

BIO-RETENTION SCHEDULE

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
f	8	Cornus sericea 'Cardinal'	Red Twig Dogwood	36"	
aa	139	Aster novae 'angliae'	New England Aster	2"x2"x5" DCP	18" o.c.
bb	45	Bouteloua curtipendula	Sideoats Grama	2"x2"x5" DCP	18" o.c.
cc	82	Sporobolus heterolepsis	Prairie Dropseed	2"x2"x5" DCP	18" o.c.
dd	114	Carex praegracilis	Tollway Sedge	2"x2"x5" DCP	18" o.c.

STATE OF MISSOURI
JERALD W. SAUNDERS
NUMBER LA-7
LANDSCAPE ARCHITECT
8/19/14

Jerald Saunders - Landscape Architect
MO License # LA-007

Consultants:

The Place
Spirit Valley Lot 7

Chesterfield, Missouri

Revisions:

Date	Description	No.
6/26/14	City Comments	1
8/18/14	City Comments	2

Drawn: BR
Checked: RS

loomisAssociates
landscape•Architects/planners
#17 Spirit 40 Park Drive, Suite 135
Chesterfield, Missouri 63005-1194
636/519-0668 fax: 636/519-0797
e-mail: larry@loomis-associates.com
Loomis Associates Inc.
Missouri State Certificate of Authority #: LAC #000019

Sheet Title: Landscape Plan

Sheet No: L1

Date: 06/06/14
Job #: 687.012

Submitted by Luikart-Eason-Calcaterra & Co.	Catalog Number:	Type:
Job Name: The Place Storage-REVISED	WD18D3/250PMH/VOLTAGE/ STANDARD COLOR Notes:	A LEC-STL14-41792

KIM LIGHTING

WD18
18″ Wall Director®
revision 9/05/08 • wd18.pdf

Type:
Job:
Catalog number:

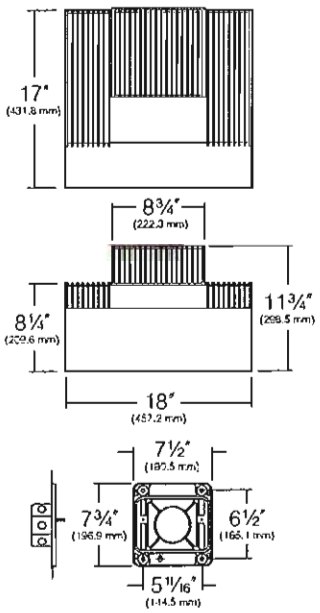
/ / /
Fixture | Electrical Module | Finish | Options
See page 2 — See pages 3-4

Approvals:

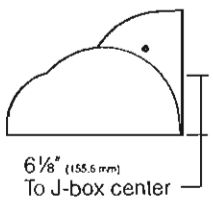
Date:
Page: 1 of 5

Specifications

Maximum Fixture Weight (400HPS) = 43 lb



Mounting Plate must be securely attached to wall outside the J-box perimeter.



Reflector Housing: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling fins. Rotates against ballast housing to provide 10° of adjustment with degree markers cast into the housing. At 0° adjustment, lens is totally concealed from view above horizontal with fixture aimed downward.

Ballast Housing: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling fins. Fastens to mounting plate with keyhole slots freeing both hands for securing and wiring. One stainless steel socket-head screw on each side of housing frees the reflector housing to rotate for aiming. Tightening the screws locks the two housings together with sealing provided by a silicone gasket. For visual aiming, adjustment may be accomplished with the fixture on.

Lens Frame: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral hinges and stainless steel pins. Two stainless steel quarter-turn fasteners secure lens frame to reflector housing with sealing provided by a one-piece extruded and vulcanized silicone gasket. Lens is clear flat 3/16″ thick tempered glass sealed to lens frame with a silicone gasket and retainer clips. For UP models, lens is mounted flush with frame for water run off, and is silicone sealed.

Type II, III, and IV Reflector Module: Specular Alzak® optical segments are rigidly mounted within a die-cast aluminum enclosure that attaches to the housing by a no-tool quick-disconnecting hinge and fastener. All sockets are mogul base with HPS and PMH rated 4KV with molded silicone lamp stabilizers. All modules are factory prewired with a quick-disconnect plug for mating to the ballast. Available in three light distributions, all interchangeable within the same housing.

Wall Grazer Reflector Module: Specular Alzak® optical segment is rigidly formed into a self-contained module which attaches to the housing by a no-tool quick-disconnecting hinge and fastener. Black louver vanes run parallel to the lamp arc for controlling the hot spot directly behind the fixture, and spill light into the atmosphere. All sockets are mogul base with HPS and PMH rated 4KV with molded silicone lamp stabilizers. All modules are factory prewired with a quick-disconnect plug for mating to the ballast.

Spot Reflector Module: Specular Alzak® optical spun parabola is rigidly mounted to a self-contained module which attaches to the housing by a no-tool quick-disconnecting hinge and fastener. Black internal louvers are provided to control the beam and prevent hot spots directly behind the fixture and spill light into the atmosphere. All sockets are mogul base with HPS and PMH rated 4KV with molded silicone lamp stabilizers. All modules are factory prewired with a quick-disconnect plug for mating to the ballast.

Electrical Components: High power factor ballasts are rigidly mounted inside the housing and are factory prewired with a quick-disconnect plug for mating to the socket. Starting temperatures are –40°F for HPS lamp modes and –20°F for PMH lamp modes.

Mounting Plate: The standard mounting plate is attached to wall (by others) outside the junction box perimeter. All mounting plates are die-cast aluminum with reinforced ribs. Two studs are provided in each plate with flange nuts to allow fixture mounting by keyhole slots. Sealant must be applied (by others) between mounting plate and mounting surface to insure a dry junction box.

Finish: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; A.S.T.M. 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray®, Platinum Silver, or White. Custom colors are available.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Listings and Ratings		
UL cUL 1598[1]	CE	25C Ambient
	IP66 Rated	

[1]Suitable for wet locations

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

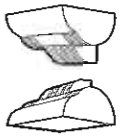
5608808249

Submitted by Luikart-Eason-Calcaterra & Co.		Catalog Number:	Type:
	Job Name: The Place Storage-REVISED	WD18D3/250PMH/VOLTAGE/ STANDARD COLOR Notes:	A LEC-STL14-41792

KIM LIGHTING

WD18
18" Wall Director®
revision 9/05/08 • wd18.pdf

Type:
Job:



Standard Features

Fixture
Cat. No. designates **WD18** fixture, Up (U) or Down (D) configuration, and light distribution (2, 3, 4, G or S).

WD Fixture



Light Distribution:	Type II	Type III	Type IV	Wall Grazer	Spot
Cat. No.: (Up 18")	☐ **WD18U2**	☐ **WD18U3**	☐ **WD18U4**	☐ **WD18UG**	☐ **WD18US**
Cat. No.: (Down 18")	☐ **WD18D2**	☐ **WD18D3**	☐ **WD18D4**	☐ **WD18DG**	☐ **WD18DS**

Finish
Super TGIC powder coat paint over a titanated zirconium conversion coating.

Color:	Black	Dark Bronze	Light Gray	Stealth Gray[1]	Platinum Silver	White	Custom Color[1]
Cat. No.:	☐ **BL**	☐ **DB**	☐ **LG**	☐ **SG**	☐ **PS**	☐ **WH**	☐ **CC**

[1]Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____

Submitted by Luikart-Eason-Calcaterra & Co.		Catalog Number:	Type:
LEC	Job Name: The Place Storage-REVISED	WD18D3/250PMH/VOLTAGE/ STANDARD COLOR Notes:	A LEC-STL14-41792

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WD18
18" Wall Director®
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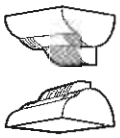
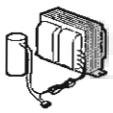
Type:
Job:



Standard Features

Electrical Module

PMH = Pulse Start Metal Halide
HPS = High Pressure Sodium
IF = Induction Fluorescent



Lamp Watts	Lamp Type	Line Volts
250	PMH	277

Lamp and electrical data supplied for reference purposes only. All initial lumen values shown may vary from one manufacturer to another. Consult lamp manufacturer's data for exact lumen and life data.

WARNING: Fixtures must be installed and grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury. For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative. Lamps by others.

NOTE: For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.

Cat. Nos. for Electrical Modules available:

SPECIFY VOLTAGE

	Pulse Start Metal Halide		
	☐ 200PMH120	☐ 250PMH120	☐ 320PMH120
	☐ 200PMH208	☐ 250PMH208	☐ 320PMH208
	☐ 200PMH240	☐ 250PMH240	☐ 320PMH240
	☐ 200PMH277	☐ 250PMH277	☐ 320PMH277
	☐ 200PMH347	☐ 250PMH347	☐ 320PMH347
	☐ 200PMH480	☐ 250PMH480	☐ 320PMH480
Lamp	T15 Clear	ED28 Clear	ED28 Clear
Socket	Mogul Base	Mogul Base	Mogul Base
ANSI Ballast	M136	M138	M154, M132

	Pulse Start Metal Halide	
	☐ 350PMH120	☐ 400PMH120
	☐ 350PMH208	☐ 400PMH208
	☐ 350PMH240	☐ 400PMH240
	☐ 350PMH277	☐ 400PMH277
	☐ 350PMH347	☐ 400PMH347
	☐ 350PMH480	☐ 400PMH480
Lamp	ED28 Clear	ED28 Clear
Socket	Mogul Base	Mogul Base
ANSI Ballast	M131	M135, M155

	High Pressure Sodium			Induction Fluorescent
	☐ 150HPS120	☐ 250HPS120	☐ 400HPS120	☐ 85IF120[1]
	☐ 150HPS208	☐ 250HPS208	☐ 400HPS208	☐ 85IF208[1]
	☐ 150HPS240	☐ 250HPS240	☐ 400HPS240	☐ 85IF240[1]
	☐ 150HPS277	☐ 250HPS277	☐ 400HPS277	☐ 85IF277[1]
	☐ 150HPS347	☐ 250HPS347	☐ 400HPS347	
	☐ 150HPS480[1]	☐ 250HPS480	☐ 400HPS480	
Lamp	E18 Clear,	ED18 Clear,	ED18 Clear	Induction
Socket	Mogul Base	Mogul Base	Mogul Base	
ANSI Ballast	S55	S50	S51	

[1] 85W IF lamps are available for WC18 only. Not recommended for all distribution types.

NOTE: Refer to WD14 spec sheet for compact fluorescent models.

CAUTION: All manufacturers of metal halide lamps recommend turning them off for 15 minutes once per week when under continuous operation. This will reduce the risk of arc tube rupture at end of life. Also, color temperature may differ between manufacturers of metal halide lamps. See lamp manufacturers' specification sheets.

NOTE: Due to the Energy Independence and Security Act (EISA) of 2007, Kim Lighting can no longer supply probe start metal halide ballasts with its luminaires, effective January 1, 2009. Contact Kim Lighting for availability of replacement ballasts for warranty service claims.
(http://www.aboutlightingcontrols.org/education/papers/2008_energy_law.shtml#metalhalide).

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Job Name: The Place Storage-REVISED	WD18D3/250PMH/VOLTAGE/ STANDARD COLOR Notes:	A LEC-STL14-41792

KIM LIGHTING

WD18
18" Wall Director®
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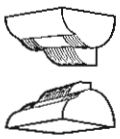
Type:
Job:

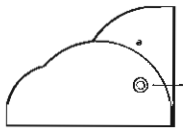


Optional Features

Photocell Control
Cat. No. **(see right)**
☐ **No Option**

Factory installed inside housing with fully gasketed sensor on side wall.

Cat. No.	Line Volts:	Cat. No.	Line Volts:
☐ **A-30**	120V	☐ **A-33**	277V
☐ **A-31**	208V	☐ **A-34**	480V
☐ **A-32**	240V	☐ **A-35**	347V

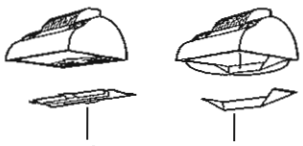


Houseside Shield
Cat. No. **(see right)**
☐ **HS**
☐ **HSC**
☐ **No Option**

Combination louver shield and black end-panel for reflector. Factory installed to reflector module. Reduces light toward wall by the amounts shown.

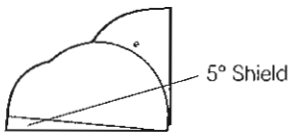
CAUTION: Do not use the Houseside Shield option with the Wall Grazer as it will interfere with the light distribution.

Approximate Light Reduction Toward Wall	Type II	Type III	Type IV
	-72%	-73%	-84%



5° Shield
Cat. No. ☐ **5DS18**
☐ **No Option**

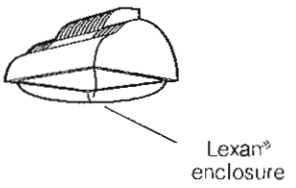
Aluminum shield field-attached to lens frame. Maintains a horizontal cutoff fixture edge when the luminaire is tilted 5°. Finished to match the fixture.



Lexan® Non-yellowing Enclosure:
Cat. No. ☐ **LS**
☐ **No Option**

For DOWN fixture models only. Clear convex vacumm formed non-yellowing Lexan® enclosure with gasket replaces standard tempered glass lens. 250W max. May be used with 400W HPS only in outdoor locations where ambient air temperature during fixture operation will not exceed 85°F.

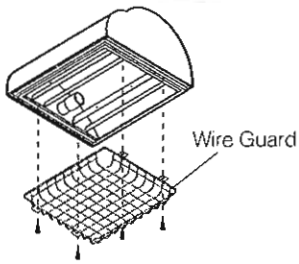
NOTE: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight and MH lamps. A program of regular inspection and periodic replacement is highly recommended to maintain optimum fixture performance.



Wire Guard
Cat. No. ☐ **WG18**
☐ **No Option**

11 ga. (.12" dia.) BB Wire, (.75" sq. welded mesh pattern.) 15" x 14½" x 1½" deep. Finish is super TGIC thermoset polyester powder coat paint, over zinc plated wireform. Finished to match the fixture.

NOTE: Only available with flat lens applications.



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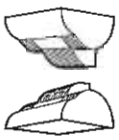
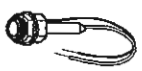


Optional Features

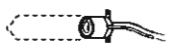
Fusing
Cat. No. **(see right)**
☐ **No Option**

Line Volts: 120V 208V 240V 277V 347V 480V
Cat. No.: ☐ **SF** ☐ **DF** ☐ **DF** ☐ **SF** ☐ **SF** ☐ **DF**



Quartz Standby
Cat. No. ☐ **QS**
☐ **No Option**

Integral electronic device energizes a T-4 mini-can socket during initial lamp start-up or after a power interruption. De-energizes prior to H.I.D. lamp reaching full brightness. T-4 halogen lamp by others; 150 watt maximum.

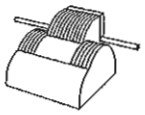


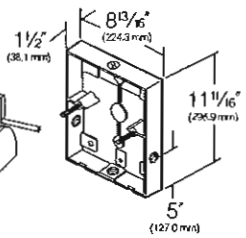
Surface Conduit Mount
Cat. No. ☐ **SCM18**
☐ **No Option**

Cast aluminum junction box and fixture mount for attachment (by others) to existing walls, beams or columns. **SCM18** has one ¾" NPT conduit tap in each side, top and bottom. Finished to match the fixture.

SCM18 for all fixtures, UP and DOWN.

Note: Must be securely mounted to all surface.





Submitted by Luikart-Eason-Calcaterra & Co.		Catalog Number:	Type:
LEC	Job Name: The Place Storage-REVISED	WD18D4/250PMH/VOLTAGE/ STANDARD COLOR Notes:	B LEC-STL14-41792

KIM LIGHTING

WD18
18" Wall Director®
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Type:
Job:
Catalog number:

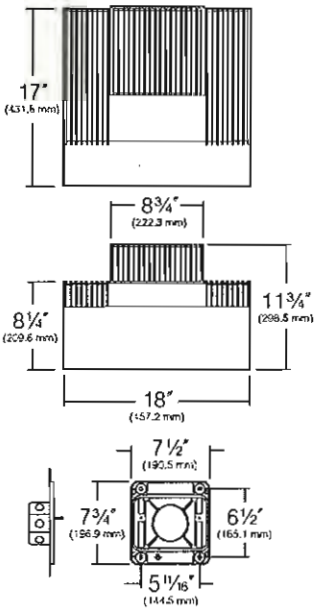
/ / /
Fixture — Electrical Module — Finish — Options
See page 2 — See pages 3-4

Approvals:

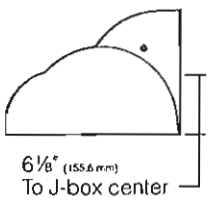
Date:
Page: 1 of 5

Specifications

Maximum Fixture Weight (400HPS) = 43 lb



Mounting Plate must be securely attached to wall outside the J-box perimeter.



Reflector Housing: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling fins. Rotates against ballast housing to provide 10° of adjustment with degree markers cast into the housing. At 0° adjustment, lens is totally concealed from view above horizontal with fixture aimed downward.

Ballast Housing: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling fins. Fastens to mounting plate with keyhole slots freeing both hands for securing and wiring. One stainless steel socket-head screw on each side of housing frees the reflector housing to rotate for aiming. Tightening the screws locks the two housings together with sealing provided by a silicone gasket. For visual aiming, adjustment may be accomplished with the fixture on.

Lens Frame: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral hinges and stainless steel pins. Two stainless steel quarter-turn fasteners secure lens frame to reflector housing with sealing provided by a one-piece extruded and vulcanized silicone gasket. Lens is clear flat 3/16" thick tempered glass sealed to lens frame with a silicone gasket and retainer clips. For UP models, lens is mounted flush with frame for water run off, and is silicone sealed.

Type II, III, and IV Reflector Module: Specular Alzak® optical segments are rigidly mounted within a die-cast aluminum enclosure that attaches to the housing by a no-tool quick-disconnecting hinge and fastener. All sockets are mogul base with HPS and PMH rated 4KV with molded silicone lamp stabilizers. All modules are factory prewired with a quick-disconnect plug for mating to the ballast. Available in three light distributions, all interchangeable within the same housing.

Wall Grazer Reflector Module: Specular Alzak® optical segment is rigidly formed into a self-contained module which attaches to the housing by a no-tool quick-disconnecting hinge and fastener. Black louver vanes run parallel to the lamp arc for controlling the hot spot directly behind the fixture, and spill light into the atmosphere. All sockets are mogul base with HPS and PMH rated 4KV with molded silicone lamp stabilizers. All modules are factory prewired with a quick-disconnect plug for mating to the ballast.

Spot Reflector Module: Specular Alzak® optical spun parabola is rigidly mounted to a self-contained module which attaches to the housing by a no-tool quick-disconnecting hinge and fastener. Black internal louvers are provided to control the beam and prevent hot spots directly behind the fixture and spill light into the atmosphere. All sockets are mogul base with HPS and PMH rated 4KV with molded silicone lamp stabilizers. All modules are factory prewired with a quick-disconnect plug for mating to the ballast.

Electrical Components: High power factor ballasts are rigidly mounted inside the housing and are factory prewired with a quick-disconnect plug for mating to the socket. Starting temperatures are –40°F for HPS lamp modes and –20°F for PMH lamp modes.

Mounting Plate: The standard mounting plate is attached to wall (by others) outside the junction box perimeter. All mounting plates are die-cast aluminum with reinforced ribs. Two studs are provided in each plate with flange nuts to allow fixture mounting by keyhole slots. Sealant must be applied (by others) between mounting plate and mounting surface to insure a dry junction box.

Finish: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; A.S.T.M. 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray®, Platinum Silver, or White. Custom colors are available.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Listings and Ratings		
UL cUL 1598[1]	CE	25C Ambient
	IP66 Rated	

[1]Suitable for wet locations

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

5606808249

Submitted by Luikart-Eason-Calcaterra & Co.		Catalog Number:	Type:
	Job Name: The Place Storage-REVISED	WD18D4/250PMH/VOLTAGE/ STANDARD COLOR Notes:	B LEC-STL14-41792

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18" Wall Director®
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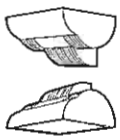

Standard Features

Fixture
Cat. No. designates **WD18** fixture, Up (U) or Down (D) configuration, and light distribution (2, 3, 4, G or S).


WD Fixture



Light Distribution:	Type II	Type III	Type IV	Wall Grazer	Spot
Cat. No.: (Up 18")	☐ **WD18U2**	☐ **WD18U3**	☐ **WD18U4**	☐ **WD18UG**	☐ **WD18US**
Cat. No.: (Down 18")	☐ **WD18D2**	☐ **WD18D3**	☐ **WD18D4**	☐ **WD18DG**	☐ **WD18DS**

Finish
Super TGIC powder coat paint over a titanated zirconium conversion coating.

Color:	Black	Dark Bronze	Light Gray	Stealth Gray[5]	Platinum Silver	White	Custom Color[1]
Cat. No.:	☐ **BL**	☐ **DB**	☐ **LG**	☐ **SG**	☐ **PS**	☐ **WH**	☐ **CC**

[1]Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____

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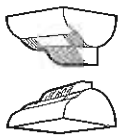

Standard Features

Electrical Module

PMH = Pulse Start Metal Halide
HPS = High Pressure Sodium
IF = Induction Fluorescent

Lamp Watts	Lamp Type	Line Volts
250	PMH	277

Lamp and electrical data supplied for reference purposes only. All initial lumen values shown may vary from one manufacturer to another. Consult lamp manufacturer's data for exact lumen and life data.

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Cat. Nos. for Electrical Modules available:

SPECIFY VOLTAGE

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	☐ 200PMH120	☐ 250PMH120	☐ 320PMH120
	☐ 200PMH208	☐ 250PMH208	☐ 320PMH208
	☐ 200PMH240	☐ 250PMH240	☐ 320PMH240
	☐ 200PMH277	☐ 250PMH277	☐ 320PMH277
	☐ 200PMH347	☐ 250PMH347	☐ 320PMH347
	☐ 200PMH480	☐ 250PMH480	☐ 320PMH480
Lamp	T15 Clear	ED28 Clear	ED28 Clear
Socket	Mogul Base	Mogul Base	Mogul Base
ANSI Ballast	M136	M138	M154, M132

	Pulse Start Metal Halide	
	☐ 350PMH120	☐ 400PMH120
	☐ 350PMH208	☐ 400PMH208
	☐ 350PMH240	☐ 400PMH240
	☐ 350PMH277	☐ 400PMH277
	☐ 350PMH347	☐ 400PMH347
	☐ 350PMH480	☐ 400PMH480
Lamp	ED28 Clear	ED28 Clear
Socket	Mogul Base	Mogul Base
ANSI Ballast	M131	M135, M155

	High Pressure Sodium			Induction Fluorescent
	☐ 150HPS120	☐ 250HPS120	☐ 400HPS120	☐ 85IF120[1]
	☐ 150HPS208	☐ 250HPS208	☐ 400HPS208	☐ 85IF208[1]
	☐ 150HPS240	☐ 250HPS240	☐ 400HPS240	☐ 85IF240[1]
	☐ 150HPS277	☐ 250HPS277	☐ 400HPS277	☐ 85IF277[1]
	☐ 150HPS347	☐ 250HPS347	☐ 400HPS347	
	☐ 150HPS480[3]	☐ 250HPS480	☐ 400HPS480	
Lamp	E18 Clear,	ED18 Clear,	ED18 Clear	Induction
Socket	Mogul Base	Mogul Base	Mogul Base	
ANSI Ballast	S55	S50	S51	

[1] 85W IF lamps are available for WC18 only. Not recommended for all distribution types.

NOTE: Refer to WD14 spec sheet for compact fluorescent models.

CAUTION: All manufacturers of metal halide lamps recommend turning them off for 15 minutes once per week when under continuous operation. This will reduce the risk of arc tube rupture at end of life. Also, color temperature may differ between manufacturers of metal halide lamps. See lamp manufacturers' specification sheets.

NOTE: Due to the Energy Independence and Security Act (EISA) of 2007, Kim Lighting can no longer supply probe start metal halide ballasts with its luminaires, effective January 1, 2009. Contact Kim Lighting for availability of replacement ballasts for warranty service claims.
(http://www.ahoutlightingcontrols.org/education/papers/2008_energy_law.shtml#metalhalide).

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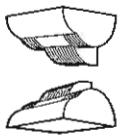
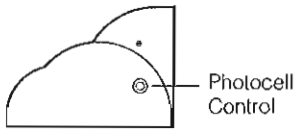


Optional Features

Photocell Control
Cat. No. **(see right)**
☐ **No Option**

Factory installed inside housing with fully gasketed sensor on side wall.

Cat. No.	Line Volts:	Cat. No.	Line Volts:
☐ **A-30**	120V	☐ **A-33**	277V
☐ **A-31**	208V	☐ **A-34**	480V
☐ **A-32**	240V	☐ **A-35**	347V

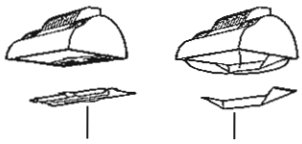


Houseside Shield
Cat. No. **(see right)**
☐ **HS**
☐ **HSC**
☐ **No Option**

Combination louver shield and black end-panel for reflector. Factory installed to reflector module. Reduces light toward wall by the amounts shown.

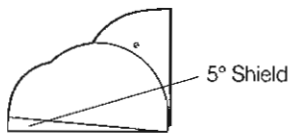
CAUTION: Do not use the Houseside Shield option with the Wall Grazer as it will interfere with the light distribution.

Approximate Light Reduction Toward Wall	Type II	Type III	Type IV
	-72%	-73%	-84%



5° Shield
Cat. No. ☐ **5DS18**
☐ **No Option**

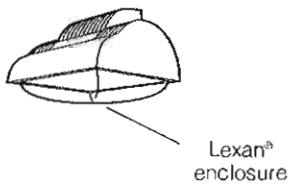
Aluminum shield field-attached to lens frame. Maintains a horizontal cutoff fixture edge when the luminaire is tilted 5°. Finished to match the fixture.



Lexan® Non-yellowing Enclosure:
Cat. No. ☐ **LS**
☐ **No Option**

For DOWN fixture models only. Clear convex vacumm formed non-yellowing Lexan® enclosure with gasket replaces standard tempered glass lens. 250W max. May be used with 400W HPS only in outdoor locations where ambient air temperature during fixture operation will not exceed 85°F.

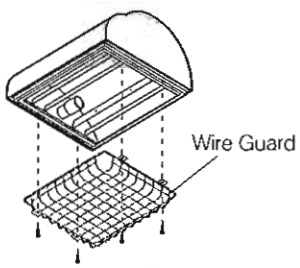
NOTE: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight and MH lamps. A program of regular inspection and periodic replacement is highly recommended to maintain optimum fixture performance.



Wire Guard
Cat. No. ☐ **WG18**
☐ **No Option**

11 ga. (.12" dia.) BB Wire, (.75" sq. welded mesh pattern.) 15" x 14½" x 1½" deep. Finish is super TGIC thermoset polyester powder coat paint, over zinc plated wireform. Finished to match the fixture.

NOTE: Only available with flat lens applications.



Submitted by Luikart-Eason-Calcaterra & Co.	Catalog Number:	Type:
Job Name: The Place Storage-REVISED	WD18D4/250PMH/VOLTAGE/ STANDARD COLOR Notes:	B LEC-STL14-41792

KIM LIGHTING

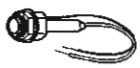
WD18
18" Wall Director®
revision 9/05/08 • wd18.pdf

Type:
Job:

Optional Features

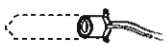
Fusing
Cat. No. **(see right)**
☐ **No Option**

Line Volts: 120V 208V 240V 277V 347V 480V
Cat. No.: ☐ **SF** ☐ **DF** ☐ **DF** ☐ **SF** ☐ **SF** ☐ **DF**



Quartz Standby
Cat. No. ☐ **QS**
☐ **No Option**

Integral electronic device energizes a T-4 mini-can socket during initial lamp start-up or after a power interruption. De-energizes prior to H.I.D. lamp reaching full brightness. T-4 halogen lamp by others; 150 watt maximum.

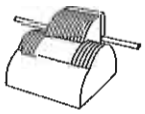


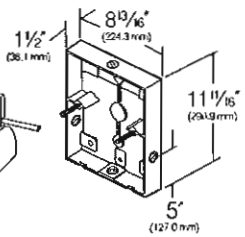
Surface Conduit Mount
Cat. No. ☐ **SCM18**
☐ **No Option**

Cast aluminum junction box and fixture mount for attachment (by others) to existing walls, beams or columns. **SCM18** has one ¾" NPT conduit tap in each side, top and bottom. Finished to match the fixture.

SCM18 for all fixtures, UP and DOWN.

Note: Must be securely mounted to all surface.





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Submitted by Luikart-Eason-Calcaterra & Co.		Catalog Number:	Type:
	Job Name: The Place Storage-REVISED	BNM-36LED-3K-VOLTAGE/1W/ STANDARD COLOR Notes:	C LEC STL14 41792

KIM LIGHTING

BNM
Mini-Bounce™
revision 03/20/14 • kl_bnm_spec.pdf

Type:
Job:
Catalog number:

/ BNM / / /

Mtg. Fixture Electrical Module Finish Options

See page 2 See page 3 See pages 4 - 5

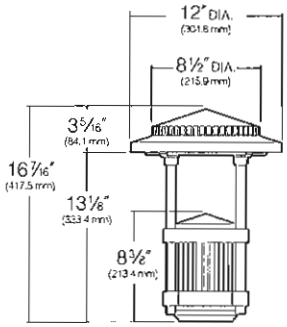
Select pole from Kim Pole Catalog (**PRA** or **KRS**). Omit for **1W** Wall Mount.

Approvals:

Date:
Page: 1 of 5

Specifications

35 to 150 watt HID
42 watt Compact Fluorescent
18, 27 or 36 LED



Hood and Lens Frame: Die-cast, low copper (<0.6% Cu) aluminum alloy with stainless steel hinge. Hood is opened by loosening three stainless steel captive button-head socket cap screws. ⅜ thick clear flat tempered glass lens seals against the lens frame by a one-piece molded silicone gasket. Lens frame seals against the hood by a one-piece extruded and vulcanized silicone gasket.

Reflector Module: Specular Alzak² optical segments are rigidly mounted within an aluminum frame and fastened securely to the hood. A porcelain medium base socket rated 4KV is provided for HID, and a GX24q-3 universal socket is provided for fluorescent. No reflector provided for LED.

Body Support: Die-cast, low copper (<0.6% Cu) aluminum alloy flanges compress a ribbed extruded aluminum chamber. The four heavy wall extruded aluminum support rods are mechanically fastened to the lens frame with stainless steel fasteners. The support rods are held in position through die-cast arms and mechanically fastened at the bottom with a custom aluminum bolt. The electrical wiring is channeled through a support rod with a brass bushing. The die-cast aluminum cover is held with two captive stainless steel screws.

StarView™ Black Ballast Cover: Die-cast, low copper (<0.6% Cu) aluminum alloy, retained by two captive stainless steel screws. Matte black finish to eliminate bounce light. See page **5**.

Electrical Module: Factory mounted to a rigid harness attached inside the body support. Access is by removal of the die-cast aluminum cover. **HID:** High Power Factor with starting temperatures of -20°F for PMH and -40°F for HPS lamp modes. **Fluorescent:** High Power Factor with starting temperature of 0°F.

LED Optical System: A total of 9 LED emitters configured in a rectangular array comprised together as a module. Two (2) modules for 18 LED version; three (3) modules for 27 LED version; and four (4) modules for 36 LED version. Available in 4000K and 5000K.

LED Driver: Rated for 18 or 36 LED. Universal voltage from 120 to 277V with a ±10% tolerance. -40°F starting temperature. All drivers are Underwriters Laboratories recognized.

Finish/Color: Finish is super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, or White. Custom colors are available.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Listings and Ratings			
ETL[1] to UL Standards1598 & 8750	IP66 Rated	CE	25C Ambient
Full Cut Off[2]			
IDA Rated - FS - Full Shielded			

[1]Suitable for wet locations
[2]Dark Sky Legislation Compliant
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HUBBELL LIGHTING INC U.S. Patent 0473,333S

Submitted by Luikart-Eason-Calcaterra & Co.		Catalog Number:	Type:
	Job Name: The Place Storage-REVISED	BNM-36LED-3K-VOLTAGE/1W/ STANDARD COLOR Notes:	C LEC-STL14-41792

KIM LIGHTING

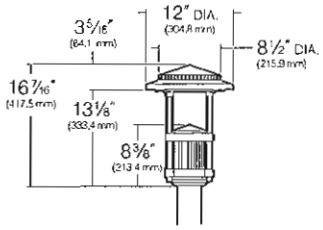
BNM

Mini-Bounce™

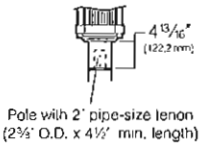
Standard Mountings

Specifications

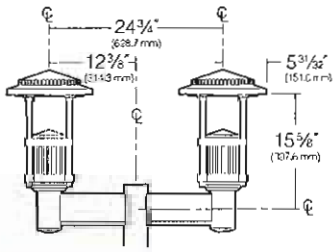
Flush Mount (FM)



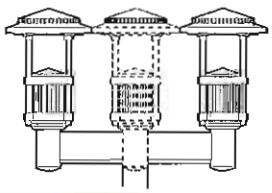
Post Tenon Top (PT)



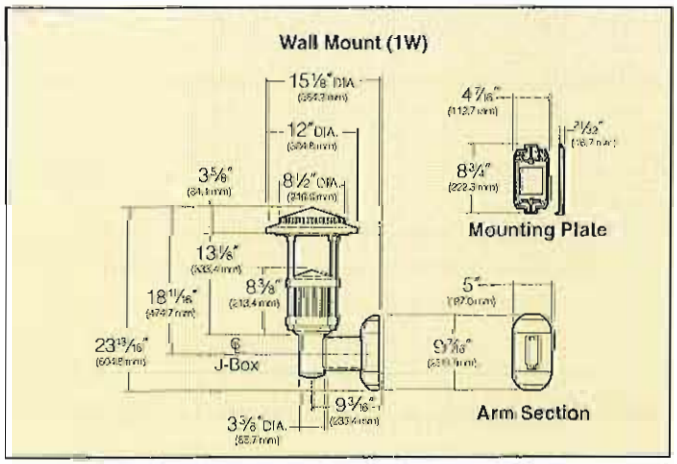
Twin Arm Mount (2B)



Quad Arm Mount (4C)



Wall Mount (1W)



Mount by one of the following:

Flush Mount (FM): Flush Mount to any 4 round pole with a wall thickness not more than .188 thick. A spreader assembly is provided to grip the inside surface of the pole. A single spreader bolt is accessible through the body support. (Other pole sizes, consult factory).

Pole Tenon Mount (PT): Pole Tenon Mount to any 2 pipe tenon (2⅜ OD). A cast tenon adaptor is provided to slip-fit the tenon. (Other tenon sizes, consult factory).

Twin Arm Mount (2B): Side pole arm assemblies are provided to mount directly to the side of any pole surface. Specify square or round pole size when ordering. An extruded aluminum riser and arm is provided with extension rods and cast end caps. A steel backing plate is provided to reinforce the interior of the pole.

Quad Arm Mount (4C): Side pole arm assemblies are provided to mount directly to the side of any pole surface. Specify square or round pole size when ordering. An extruded aluminum riser and arm is provided with extension rods and cast end caps. A steel backing plate is provided to reinforce the interior of the pole.

Wall Mounting (1W): Wall mount arm is provided to attach to a flat surface. A cast mounting plate of aluminum, mounted to the wall with bolts (by others). Fixture and arm are then mounted to a cast aluminum cover plate before attaching to the wall mounting plate. The fixture-arm-cover plate assembly is hooked to the wall mounting plate, and secured with stainless steel screws provided. After mounting to the wall, field splices are made at the opening in the cover plate, then covered by a cast aluminum plate that blends with the cove plate design. Complete fixture-arm-cover plate assembly can therefore be mounted before field splices are made. Cover plate is finished to match arm and fixture powder coat color.

Caution: Structural integrity of mounting plate attachment to wall is by others.

Submitted by Luikart-Eason-Calcaterra & Co.	Catalog Number:	Type:
Job Name: The Place Storage-REVISED	BNM-36LED-3K-VOLTAGE/1W/ STANDARD COLOR Notes:	C LEC-STL14-41792

KIM LIGHTING

BNM

Mini-Bounce™

revision 03/20/14 • kl_bnm_spec.pdf

Type:

Job:

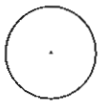
Standard Features

Mounting:

Plan View:	●	●	●—●	✣	●|
EPA:	1.0	1.0	3.0	4.5	n/a
Cat. No.:	☐ FM	☐ PT	☐ 2B	☐ 4C	☐ 1W
	Flush Mount	Tenon Mount	Twin Mount	Quad Mount	Wall Mount

Fixture:
Cat. No. designates **BNM** fixture and light distribution.

Horizontal Lamp
Flat Glass Lens



Light Distribution: Type V Round

Cat. No.: **BNM**

Submitted by Luikart-Eason-Calcaterra & Co.		Catalog Number:	Type:
	Job Name: The Place Storage-REVISED	BNM-36LED-3K-VOLTAGE/1W/ STANDARD COLOR Notes:	C LEC-STL14-41792

KIM LIGHTING

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Standard Features

Electrical Module

PMH = Pulse Start Metal Halide
HPS = High Pressure Sodium
PL = Compact Fluorescent
LED = Light Emitting Diode

Lamp Watts	Lamp Type	Line Volts
100	HPS	277

For PMH, HPS and PL.
See footnote 3 below for LED

Cat. Nos. for Electrical Modules available:

Pulse Start Metal Halide

☐ 35PMH120	☐ 70PMH120	☐ 100PMH120	☐ 150PMH120
☐ 35PMH208	☐ 70PMH208	☐ 100PMH208	☐ 150PMH208
☐ 35PMH240	☐ 70PMH240	☐ 100PMH240	☐ 150PMH240
☐ 35PMH277	☐ 70PMH277	☐ 100PMH277	☐ 150PMH277
☐ 35PMH347	☐ 70PMH347	☐ 100PMH347	☐ 150PMH347

Lamp	T-6, Clear	ED-17 Coated	T-6 Clear	ED-17, Coated	ED-17 Coated	T-6 Clear
Socket	G12 Base	Medium	G12 Base	Medium Base	Medium	G12 Base
ANSI Ballast	M-130	M-98		M-140 / M-90	M-102	

High Pressure Sodium

☐ 70HPS120	☐ 100HPS120	☐ 150HPS120	☐ 42PL120[1,2]
☐ 70HPS208	☐ 100HPS208	☐ 150HPS208	☐ 42PL208[1,2]
☐ 70HPS240	☐ 100HPS240	☐ 150HPS240	☐ 42PL240[1,2]
☐ 70HPS277	☐ 100HPS277	☐ 150HPS277	☐ 42PL277[1,2]
☐ 70HPS347	☐ 100HPS347	☐ 150HPS347	

Lamp	ED-17, Coated	ED-17, Coated	ED-17, Coated	Coated
Socket	Medium Base	Medium Base	Medium Base	GX24q-3 Base
ANSI Ballast	S-62	S-54	S-55	

LED

☐ 18L3KUV[3] ☐ 18L5KUV[3]	☐ 27L3KUV[3] ☐ 27L5KUV[3]	☐ 36L3KUV[3] ☐ 36L5KUV[3]
IES Type 1	IES Type 3	IES Type 5
LED	LED	LED
N/A	N/A	N/A

[1] Operates one 42W triple tube compact fluorescent lamp at 120 through 277 volts (50-60 Hz).

[2] Remote battery pack and test switch available for 42W compact fluorescent lamps - consult factory.

NOTE: Lamp and electrical data supplied for reference purposes only. All initial lumen values shown may vary from one manufacturer to another. Consult lamp manufacturer's data for exact lumen and life data.

To reduce shadowing from the luminaire support arms, coated lamps are recommended.

WARNING: Fixtures must be installed and grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury. For lamp/ballast information outside of the U.S.A. and Canada, please consult our local Kim representative. Lamps by others.

[3] For LED, 18L = 18 LED Emitters; 36L = 36 LED Emitters; 4K = 4000K color temperature; 5K = 5000K color temperature; UV = Universal Voltage from 120 to 277V with a ± 10% tolerance.

SPECIFY COLOR

Finish

Super TGIC powder coat paint over a titanated zirconium conversion coating.

Color: Black | Dark Bronze | Light Gray | Stealth Gray™ | Platinum Silver | White | Custom Color[4]

Cat. No.: ☐ BL | ☐ DB | ☐ LG | ☐ SG | ☐ PS | ☐ WH | ☐ CC

[4] Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____

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Submitted by Luikart-Eason-Calcaterra & Co.		Catalog Number:	Type:
	Job Name: The Place Storage-REVISED	BNM-36LED-3K-VOLTAGE/1W/ STANDARD COLOR Notes:	C LEC-STL14-41792

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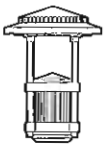
Type:

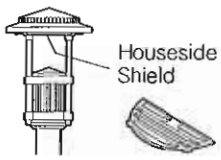
Job:



Optional Features

Houseside Shield
Cat. No. ☐ HS
☐ No Option

Optional shield made of stamped louvered aluminum allows streeside light to pass while blocking housesicle light. Blackened reflector panels within the reflector also reduces the houseside reflection.



Textured Glass Lens
Cat. No. ☐ TG
☐ No Option

Unique textured glass reduces LED glare and improves visual comfort.

Fusing
Cat. No. (see right)
☐ No Option

High temperaure fuse holders factory installed inside the fixture housing. Fuse is inlcuded.

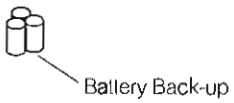
Line Volts:	120V	208V	240V	277V	347V
Cat. No.:	☐ SF	☐ DF	☐ DF	☐ SF	☐ SF

Base Socket
Cat. No. ☐ G12
☐ No Option

Available for 35W, 70W and 150W metal halide T-6 bi-pin lamps. Must use UV filtering lamp.

Emergency Battery Back-up
Cat. No. ☐ EM
☐ No Option

Internal battery pack provides 90 minutes of supplemental light at 750 lumens on 42 watt compact fluorescent lamps only.



StarView™ Black Ballast Cover
Cat. No. ☐ BBC
☐ No Option

For locations where complete cutoff optical control is desired, Kim's StarView™ optional matte black ballast cover can be specified. This option reduces the indirect uplight distribution for use in areas where light pollution and trespass is a concern and to promote celestial visibility at night.

Submitted by Luikart-Eason-Calcaterra & Co.	Catalog Number:	Type:
Job Name: The Place Storage-REVISED	BNB1-36LED-3K-VOLTAGE/ STANDARD COLOR Notes:	D LEC-STL14-41792

KIM LIGHTING

BNB
Bounce Bollard
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Type:
Job:
Catalog number:

/ / /
Fixture | Electrical Module | Luminaire Finish | Options
Electrical Module: See page 4 — Options: See page 5

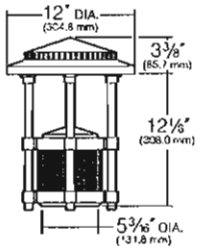
Approvals:

Date:

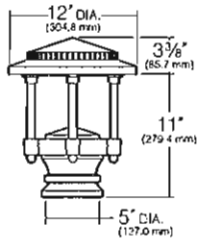
Specifications

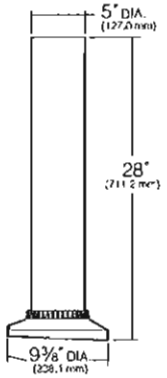
BNB1 and BNB4
70 to 100 watt PMH
70 to 100 watt HPS
Medium Base Lamps
42 watt Compact Fluorescent
18, 27 or 36 LED

BNB1

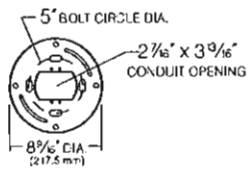


BNB4





Straight



Hood and Lens Frame: Die-cast, low copper (<0.6% Cu) aluminum alloy with stainless steel hinge. Hood is opened by loosening one stainless steel captive button-head socket cap screw. ⅜" thick clear flat tempered glass lens seals against the lens frame by a one-piece molded silicone gasket. Lens frame seals against the hood by a one-piece extruded and vulcanized silicone gasket.

Reflector Module: Specular Alzak® optical segments are rigidly mounted within an aluminum frame and fastened securely to the hood. A porcelain medium base socket rated 4KV is provided for HID, and a GX24q-4 universal socket is provided for fluorescent. No reflector provided for LED.

Body Support: BNB1: Die-cast, low copper (<0.6% Cu) aluminum alloy flanges compress a ribbed extruded aluminum chamber. The four heavy wall extruded aluminum support rods are mechanically fastened to the lens frame with stainless steel fasteners. The support rods are held in position through die-cast arms and mechanically fastened at the bottom with a custom aluminum bolt. The electrical wiring is channeled through a support rod with a brass bushing. **BNB4:** Heavy cast low copper (<0.6% Cu) aluminum alloy wiring chamber. The four extruded aluminum support rods are mechanically fastened between the lens frame and wiring chamber with stainless steel bolts. The wiring is channeled through the support rods.

Body Cap: Die-cast, low copper (<0.6% Cu) aluminum, retained by two captive stainless steel screws. Optional matte black finish to eliminate bounce light. See page 5.

Shaft: One-piece aluminum extrusion, .125" minimum wall thickness and two internal ⅜"-16 mounting rods sandwich shaft between base and head.

Anchor Base Plate: A heavy cast aluminum anchor base is provided for mounting to the four ⅜" x 10" + 2" zinc plated J-bolts, each with two nuts and washers. A rigid pressed board template is provided to secure the anchor bolts during concrete pour (5" B.C.D.)

Electrical Module: Factory mounted to a rigid harness attached to the anchor base. **HID:** High Power Factor with starting temperatures of -20°F for PMH and -40°F for HPS lamp modes. **Fluorescent:** High Power Factor with starting temperature of 0°F. **LED:** A total of 9 LED emitters configured in a rectangular array comprised together as a module. Two (2) modules for 18 LED version; three (3) modules for 27 LED version; and four (4) modules for 36 LED version. Available in 3500K and 5100K.

LED Driver: Rated for 18 LED, 27 LED or 36 LED. Universal voltage from 120 to 277V with a ±10% tolerance. -40°F starting temperature. All drivers are Underwriters Laboratories recognized.

Finish/Color: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, or White. Custom colors are available.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Listings and Ratings			
ETL[1] to UL Standards 1598 & 8750	IP46 Rated	CE	25C Ambient
(FCO) Full Cutoff[2]			

[1]Suitable for wet locations
[2]Dark Sky Legislation Compliant

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

HUBBELL LIGHTING, INC.

Submitted by Luikart-Eason-Calcaterra & Co.		Catalog Number:	Type:
	Job Name: The Place Storage-REVISED	BNB1-36LED-3K-VOLTAGE/ STANDARD COLOR Notes:	D LEC-STL14-41792

KIM LIGHTING

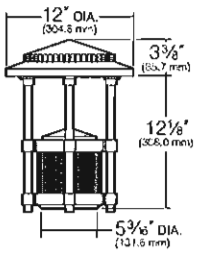
BNB
Bounce Bollard
revision 5/31/11 • bnb.pdf

Type:
Job:

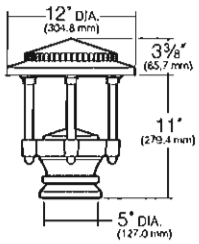
Specifications

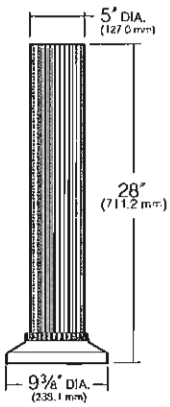
BNB2 and BNB5
70 to 100 watt PMH
70 to 100 watt HPS
Medium Base Lamps
42 watt Compact Fluorescent
18, 27 or 36 LED

BNB2

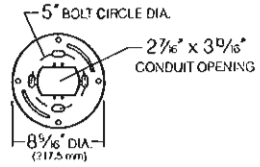


BNB5





Fluted



Hood and Lens Frame: Die-cast, low copper (<0.6% Cu) aluminum alloy with stainless steel hinge. Hood is opened by loosening one stainless steel captive button-head socket cap screw. ⅜" thick clear flat tempered glass lens seals against the lens frame by a one-piece molded silicone gasket. Lens frame seals against the hood by a one-piece extruded and vulcanized silicone gasket.

Reflector Module: Specular Alzak® optical segments are rigidly mounted within an aluminum frame and fastened securely to the hood. A porcelain medium base socket rated 4KV is provided for HID, and a GX24q-4 universal socket is provided for fluorescent. No reflector provided for LED.

Body Support: BNB2: Die-cast, low copper (<0.6% Cu) aluminum alloy flanges compress a ribbed extruded aluminum chamber. The four heavy wall extruded aluminum support rods are mechanically fastened to the lens frame with stainless steel fasteners. The support rods are held in position through die-cast arms and mechanically fastened at the bottom with a custom aluminum bolt. The electrical wiring is channeled through a support rod with a brass bushing. **BNB5:** Heavy low copper alloy (<0.6% Cu) cast aluminum wiring chamber. The four extruded aluminum support rods are mechanically fastened between the lens frame and wiring chamber with stainless steel bolts. The wiring is channeled through the support rods.

Body Cap: Die-cast, low copper (<0.6% Cu) aluminum, retained by two captive stainless steel screws. Optional matte black finish to eliminate bounce light. See page 5.

Shaft: One-piece fluted aluminum extrusion, .188" minimum wall thickness and two internal ⅜"-16 mounting rods sandwich shaft between base and head.

Anchor Base Plate: A heavy cast aluminum anchor base is provided for mounting to the four ⅜" x 10" + 2" zinc plated J-bolts, each with two nuts and washers. A rigid pressed board template is provided to secure the anchor bolts during concrete pour (5" B.C.D.)

Electrical Module: Factory mounted to a rigid harness attached to the anchor base. **HID:** High Power Factor with starting temperatures of -20°F for PMH and -40°F for HPS lamp modes. **Fluorescent:** High Power Factor with starting temperature of 0°F. **LED:** A total of 9 LED emitters configured in a rectangular array comprised together as a module. Two (2) modules for 18 LED version; three (3) modules for 27 LED version; and four (4) modules for 36 LED version. Available in 3500K and 5100K.

LED Driver: Rated for 18 LED, 27 LED or 36 LED. Universal voltage from 120 to 277V with a ±10% tolerance. -40°F starting temperature. All drivers are Underwriters Laboratories recognized.

Finish/Color: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, or White. Custom colors are available.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Listings and Ratings			
UL cUL 1598[1]	IP46 Rated	CE	25C Ambient
(FCO) Full Cutoff[2]			

[1]Suitable for wet locations
[2]Dark Sky Legislation Compliant

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

Submitted by Lulkart-Eason-Calcaterra & Co.		Catalog Number:	Type:
	Job Name: The Place Storage-REVISED	BNB1-36LED-3K-VOLTAGE/ STANDARD COLOR Notes:	D LEC-STL14-41792

KIM LIGHTING

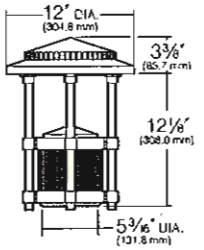
BNB
Bounce Bollard

Type:
Job:

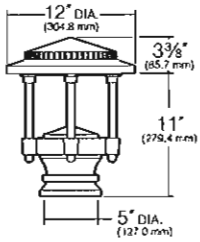
Specifications

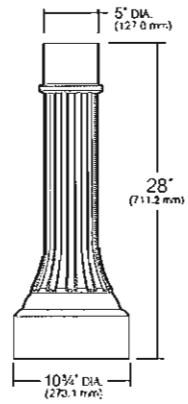
BNB3 and BNB6
70 to 100 watt PMH
70 to 100 watt HPS
Medium Base Lamps
42 watt Compact Fluorescent
18, 27 or 36 LED

BNB3

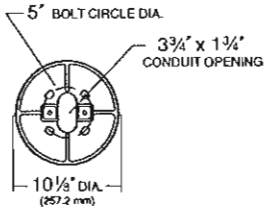


BNB6





Traditional



Hood and Lens Frame: Die-cast, low copper (<0.6% Cu) aluminum alloy with stainless steel hinge. Hood is opened by loosening one stainless steel captive button-head socket cap screw. ⅜" thick clear flat tempered glass lens seals against the lens frame by a one-piece molded silicone gasket. Lens frame seals against the hood by a one-piece extruded and vulcanized silicone gasket.

Reflector Module: Specular Alzak® optical segments are rigidly mounted within an aluminum frame and fastened securely to the hood. A porcelain medium base socket rated 4KV is provided for HID, and a GX24q-4 universal socket is provided for fluorescent. No reflector provided for LED.

Body Support: BNB3: Die-cast, low copper (<0.6% Cu) aluminum alloy flanges compress a ribbed extruded aluminum chamber. The four heavy wall extruded aluminum support rods are mechanically fastened to the lens frame with stainless steel fasteners. The support rods are held in position through die-cast arms and mechanically fastened at the bottom with a custom aluminum bolt. The electrical wiring is channeled through a support rod with a brass bushing. **BNB6:** Heavy low copper alloy (<0.6% Cu) cast aluminum wiring chamber. The four extruded aluminum support rods are mechanically fastened between the lens frame and wiring chamber with stainless steel bolts. The wiring is channeled through the support rods.

Body Cap: Die-cast, low copper (<0.6% Cu) aluminum, retained by two captive stainless steel screws. Optional matte black finish to eliminate bounce light. See page 5.

Shaft: One-piece cast aluminum .188" minimum wall thickness and two internal ⅜"-16 mounting rods sandwich shaft between base and head.

Anchor Base Plate: A heavy cast aluminum anchor base is provided for mounting to the four ¾" x 10" + 2" zinc plated J-bolts, each with two nuts and washers. A rigid pressed board template is provided to secure the anchor bolts during concrete pour (5" B.C.D.)

Electrical Module: Factory mounted to a rigid harness attached to the anchor base. **HID:** High Power Factor with starting temperatures of -20°F for PMH and -40°F for HPS lamp modes. **Fluorescent:** High Power Factor with starting temperature of 0°F. **LED:** A total of 9 LED emitters configured in a rectangular array comprised together as a module. Two (2) modules for 18 LED version; three (3) modules for 27 LED version; and four (4) modules for 36 LED version. Available in 3500K and 5100K.

LED Driver: Rated for 18 LED, 27 LED or 36 LED. Universal voltage from 120 to 277V with a ±10% tolerance. -40°F starting temperature. All drivers are Underwriters Laboratories recognized.

Finish/Color: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, or White. Custom colors are available.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Listings and Ratings			
UL cUL 1598[1]	IP46 Rated	CE	25C Ambient
(FCO) Full Cutoff[2]			

[1]Suitable for wet locations
[2]Dark Sky Legislation Compliant

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

HUBBELL
HUBBELL LIGHTING, INC.

Submitted by Luikart-Eason-Calcaterra & Co.			
	Job Name: The Place Storage-REVISED	**Catalog Number:** BNB1-36LED-3K-VOLTAGE/ STANDARD COLOR Notes:	**Type:** D LEC-STL14-41792

KIM LIGHTING

BNB

Bounce Bollard

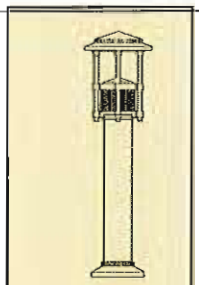
revision 5/31/11 • bnb.pdf

Type:

Job:

Standard Features

Fixture



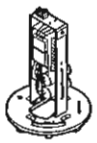
Cat. No. ☐ **BNB1** ☐ **BNB2** ☐ **BNB3** ☐ **BNB4** ☐ **BNB5** ☐ **BNB6**

Electrical Module

PMH = Pulse Start Metal Halide
HPS = High Pressure Sodium
PL = Compact Fluorescent
LED = Light Emitting Diode

Lamp Watts	Lamp Type	Line Volts
70	**PMH**	**120**

For PMH, HPS and PL. See footnote 2 below for LED



NOTE: For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.

Cat. Nos. for Electrical Modules available:

	Pulse Start Metal Halide		High Pressure Sodium	
	☐ **70PMH120**	☐ **100PMH120**	☐ **70HPS120**	☐ **100HPS120**
	☐ **70PMH208**	☐ **100PMH208**	☐ **70HPS208**	☐ **100HPS208**
	☐ **70PMH240**	☐ **100PMH240**	☐ **70HPS240**	☐ **100HPS240**
	☐ **70PMH277**	☐ **100PMH277**	☐ **70HPS277**	☐ **100HPS277**
	☐ **70PMH347**	☐ **100PMH347**	☐ **70HPS347**	☐ **100HPS347**
Lamp	ED-17, Coated	ED-17, Coated	ED-17, Coated	ED-17, Coated
Socket	Medium Base	Medium Base	Medium Base	Medium Base
ANSI Ballast Type	M-98, M-143	M-90, M-140	S62	S54
	Compact Fluor.	LED		
	☐ **42PL120**[1]	☐ **18L3KUV**[2]	☐ **27L3KUV**[2]	☐ **36L3KUV**[2]
	☐ **42PL208**[1]	☐ **18L5KUV**[2]	☐ **27L5KUV**[2]	☐ **36L5KUV**[2]
	☐ **42PL240**[1]			
	☐ **42PL277**[1]	IES Type 1	IES Type 3	IES Type 5
Lamp	Compact Fluor.	LED	LED	LED
Socket	GX24q-4	N/A	N/A	N/A

[1]42PL operates one 26, 32, or 42 watt lamp at 120 thru 277 volts (50-60 Hz).

NOTE: Coated lamps are recommended.

[2]For LED, 18L = 18 LED Emitters; 27L = 27 LED Emitters; 36L = 36 LED Emitters. 3K = 3500K color temperature; 5K = 5100K color temperature; UV = Universal Voltage from 120 to 277V with a ± 10% tolerance.

SPECIFY COLOR

Luminaire Finish

Super TGIC powder coat paint over a titanated zirconium conversion coating on fixture and shaft.

Color: Black Dark Bronze Light Gray Stealth Gray™ Platinum Silver White Custom Color[3]

Cat. No.: ☐ **BL** ☐ **DB** ☐ **LG** ☐ **SG** ☐ **PS** ☐ **WH** ☐ **CC**

[3]Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____

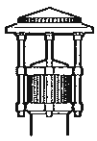
 • P.O. BOX 60080, CITY OF INDUSTRY, CA 91716-0080 • TEL: 626/968-5666 • FAX: 626/369-2695

Submitted by Luikart-Eason-Calcaterra & Co.	Catalog Number:	Type:
Job Name: The Place Storage-REVISED	BNB1-36LED-3K-VOLTAGE/ STANDARD COLOR Notes:	D LEC-STL14-41792

KIM LIGHTING

BNB
Bounce Bollard
revision 5/31/11 • bnb.pdf

Type:
Job:



Optional Features

Fusing (internal only):
Cat. No. **(see chart at right)**
☐ **No Option**

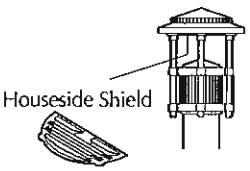
High temperature fuse holders factory installed inside the fixture housing. Fuse is included.

Line Volts:	120V	208V	240V	277V	347V
Cat. No.:	☐ SF	☐ DF	☐ DF	☐ SF	☐ SF


Single Fuse

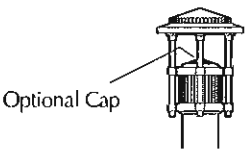
Houseside Shield
Cat. No. ☐ **HS**
☐ **No Option**

Optional shield made of stamped louvered aluminum allows streetside light to pass while blocking houseside light. Blackened reflector panels within the reflector also reduces the houseside reflection.


Houseside Shield

Matte Black Body Cap:
Cat. No. ☐ **BBC**
☐ **No Option**

For locations where complete cutoff optical control is desired, an Optional Matte Black Body Cap can be specified. This significantly reduces the indirect up-light distribution, providing complete cutoff. To further reduce the nighttime visual presence of the fixture, specify Black or Dark Bronze luminaire finish.


Optional Cap

Textured Glass Lens
Cat. No. ☐ **TG**
☐ **No Option**

Unique textured glass reduces LED glare and improves visual comfort.

Emergency Battery Back-up
Cat. No. ☐ **EM**
☐ **No Option**

Internal battery pack provides 90 minutes of supplemental light at 23% of initial lamp lumens for 26, 32, or 42 watt compact fluorescent lamps.

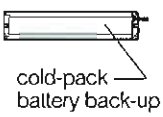

Battery Back-up

Cold-Pack Emergency Battery Pack
Cat. No. ☐ **EM-CP**
☐ **No Option**

The EM-CP option is a temperature controlled ballast designed to maintain operation without interruption within a range of hi/low ambient temperatures, -20°C to +55°C.

Internal Cold-Pack emergency battery pack provides up to 90 minutes of supplemental light. See following table for max. lumens output by lamps.

Lamp (4-Pin)	1 lamp lumens
42W	750
32W	575
26W	450


cold-pack battery back-up