



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

Architectural Review Board

Project Type:	Site Development Section Plan
Meeting Date:	July 14, 2011
From:	Kristian Corbin, Project Planner
Location:	Spirit of St. Louis Airpark, 600 & 650 North Bell Avenue
Applicant:	Poehlman & Prost, Inc. on behalf of St. Louis County
Description:	Spirit of St. Louis Airpark, North Bell Hangars: A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 1.732 acre tract of land zoned "M3" Planned Industrial District located on the northeast corner of the intersection of Edison Avenue and North Bell Avenue.

PROPOSAL SUMMARY

The request is for a 9,534 square foot office/hangar facility located within Spirit of St. Louis Airpark. The subject site is zoned "M3" Planned Industrial District governed under the terms and conditions of City of Chesterfield Ordinance Number 1430. Currently, the site is a paved parking area. The proposed materials for the office/hangar facility will be comprised of pre-finished metal wall panels and translucent wall panels. The roof will be comprised of pre-finished galvalume metal.

HISTORY OF THE SUBJECT SITE

North Bell Hangars is a 1.732 acre tract of land located northeast of the intersection of Edison Avenue and North Bell Avenue. The subject site is a part of the Spirit of St. Louis Airpark Subdivision. Prior to 2005, the subject site was utilized as a non-paved parking area for vehicles only. In February of 2005, an Amended Site Development Plan was approved to allow for the site to be paved into a parking area for aircrafts. This was done in order to meet FAA and Spirit of St. Louis Airport requirements for aircraft parking areas. Since then, the site has been utilized as aircraft parking.





STAFF ANAYLSIS

General Requirements for Site Design:

A. Site Relationship

Addressed as Written Addressed with Modifications

Not Applicable□

The design allocates the hangar part of the facility on the eastern portion of the site closer to the taxi lanes away from more pedestrian oriented areas. The office portion of the facility is closest to the street and parking area. The applicant is proposing to utilize landscaping to provide a transition point from the street to the structure. This design element mimics adjacent developments on the western side of North Bell Avenue which lends itself to a more symmetrical streetscape.

B. Circulation System and Access

Addressed as Written Addressed with Modifications Not Applicable

Access to the site will be at one point via North Bell Avenue. Vehicular and pedestrian circulations are separated from aircraft circulation that is kept to the western portion of the site near the taxi lanes. The applicant is placing a walkway from the parking lot to the office area.

C. Topography

Addressed as Written Addressed with Modifications Not Applicable

The subject site is relatively flat. The applicant is not proposing to alter the terrain as part of the proposed improvements.

D. Retaining Walls

Addressed as Written Addressed with Modifications Not Applicable

There are no retaining walls proposed for the subject site.

General Requirements for Building Design:

A. Scale

Addressed as Written Addressed with Modifications Not Applicable

The proposed facility is twenty-seven (27) feet six (6) inches in height which is similar in height to the current hangar/office facilities located on the western side of North Bell Avenue.

B. Design

Addressed as Written Addressed with Modifications Not Applicable

The overall form of the building is similar to that of the existing aircraft hangars adjacent to the subject site.

C. Materials and Color

Addressed as Written Addressed with Modifications Not Applicable

The proposed primary materials for the structure are pre-finished metal wall panels and translucent wall panels which mimic the materials of the adjacent hangar facilities. The wall panels are proposed to use compatible light and dark earth tone colors. Compatible colors and materials are desirable practices as found in the City of Chesterfield Architectural Standards.

D. Landscape Design and Screening

Addressed as Written Addressed with Modifications Not Applicable

Trees will be planted along North Bell Avenue to reflect design elements of trees planted on the west side of the street. The trash enclosure will be screened by a six (6) foot tall sight proof fence as required by the governing ordinance. The selected materials for the enclosure will be vinyl painted a light tan color to match the color scheme on the structure.

E. Signage

Addressed as Written
Addressed with Modifications Not Applicable

Signage is not submitted for review/approval at this time.

F. Lighting

Addressed as Written Addressed with Modifications Not Applicable

The proposal utilizes wall mounted fixtures that are fully shielded, cut-off, flat lens luminaries. Lighting will be addressed through site plan review.

Use Type: Commercial and Industrial Architecture

Access: The site will be accessible via North Bell Avenue as previously mentioned in this report. The service and loading area and trash enclosure are located along the eastern portion of the parking lot along the fence line separating the parking area from the tarmac.

Exterior Elements: Addressed above throughout the Requirements for Building Design.

Landscaping and Screening: Building equipment is being located in the rear of the building and will be screened by evergreen shrubbery.

Scale: Addressed above in the Requirements for Building Design.

Site Design: The facility is situated where the office portion is closest to the parking lot area. Windows and the door to the office will be facing North Bell Avenue (please see west elevation) and the entrance to the hangar for aircraft is facing south.

DEPARTMENTAL INPUT

Staff has reviewed the Site Development Section Plan, Landscape Plan, Lighting Plan and Architectural Elevations and has found the application to be in conformance with the City of Chesterfield Ordinance 1430 and all other applicable Zoning Ordinance requirements. Staff request action on the Site Development Section Plan for Spirit of St. Louis Airpark, North Bell Hangars.

MOTION

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

- 1) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan and Architectural Elevations for Spirit of St. Louis Airpark, North Bell Hangars as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan and Architectural Elevations for Spirit of St. Louis Airpark, North Bell Hangars to the Planning Commission with the following recommendations..."

Attachments

1. Architectural Review Packet Submittal



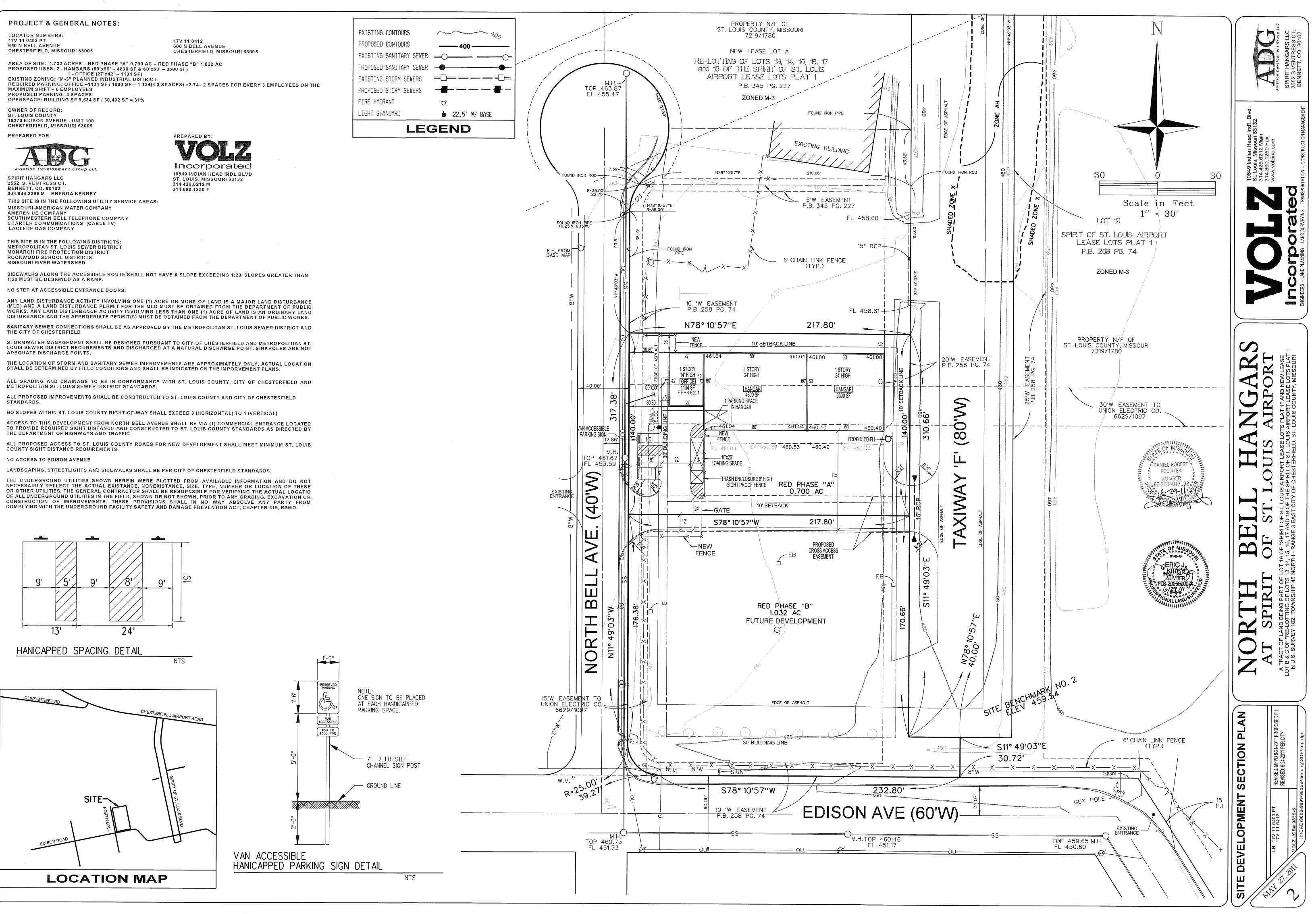
ARCHITECTURAL REVIEW BOARD Project Statistics and Checklist

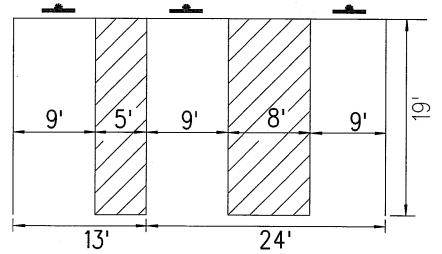
Date of First Comment Letter Received from the City of Chesterfield _____June 23, 2011 N. Bell Hangers at Spirit of St. Louis Airport 18270 Edison Ave. Unit 100 Project Title: Location: Spirit Hangers, LLC LePique & Orne Architects Volz Incorporated Developer: Architect: Engineer: **PROJECT STATISTICS:** 9,534 27'-6" 1.732 Size of site (in acres): Total Square Footage: Buildina Heiaht: Aircraft hanger and small administrative office Proposed Usage: Pre-finished metal wall panels, translucent wall panel, commercial windows & doors. Exterior Building Materials: Pre-finished galvalume metal roof panels on a low sloping gabled structure. Roof Material & Design: Small condensing unit (approx 42"x 42" x 48"h) to be screen with landscape shrubery Screening Material & Design: Building is a very straight forward rectilinear Description of art or architecturally significant features (if any): structure to be used as an aircraft hanger - the design follows function with subtle architectural features - refer to Architects Statement.

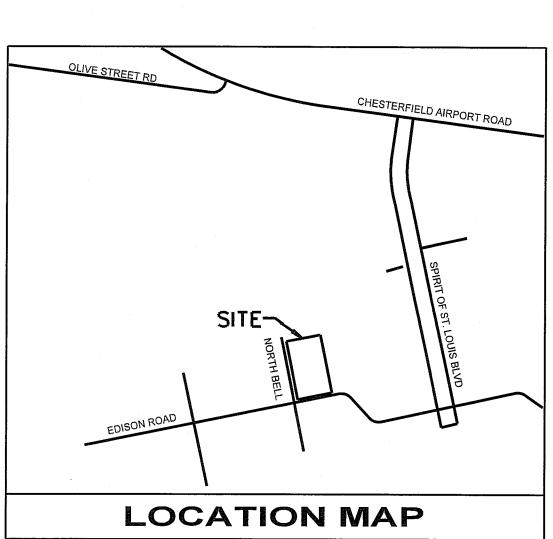
ADDITIONAL PROJECT INFORMATION:

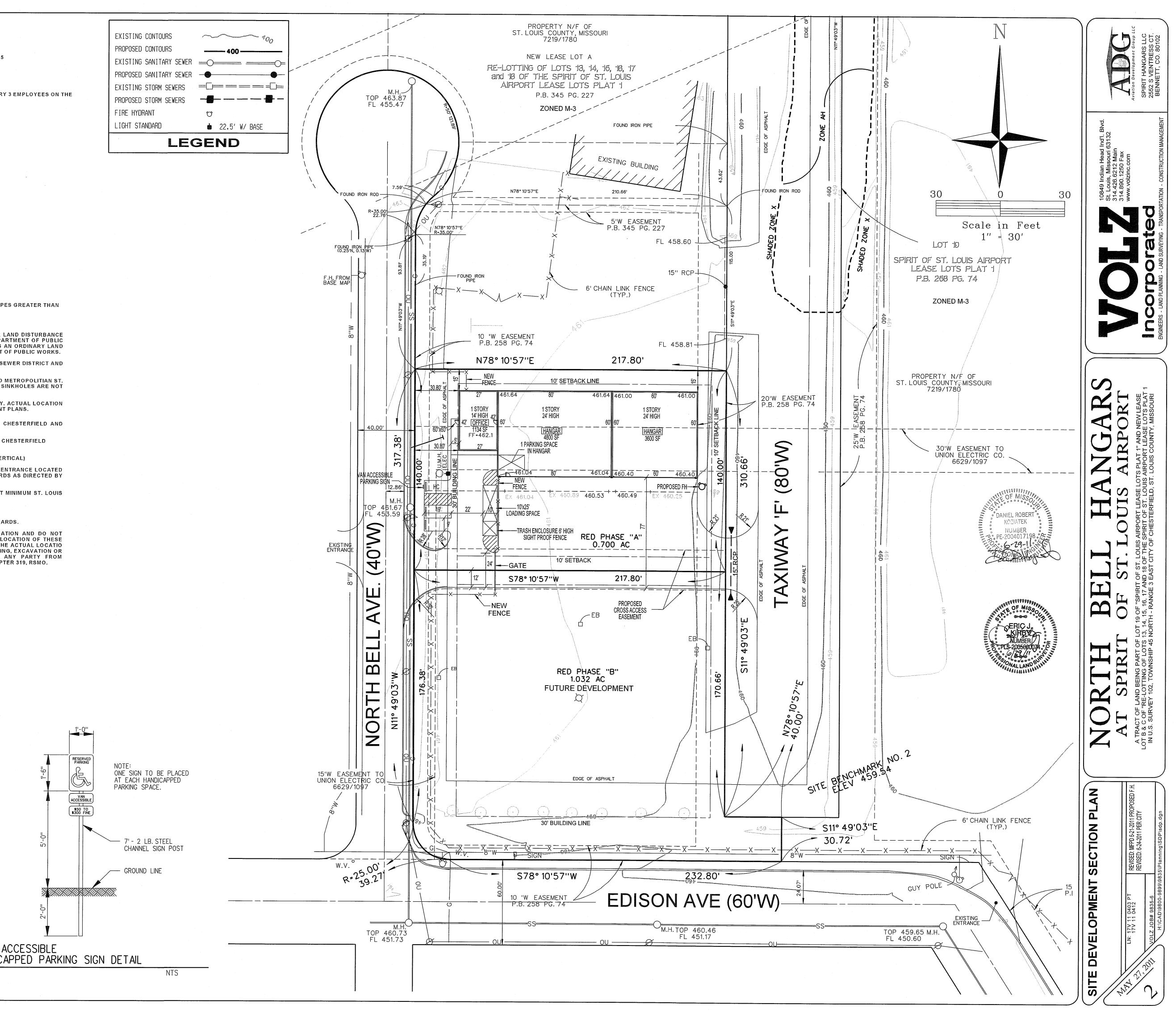
Checklist: Items to be provided in an 11" x 17" format

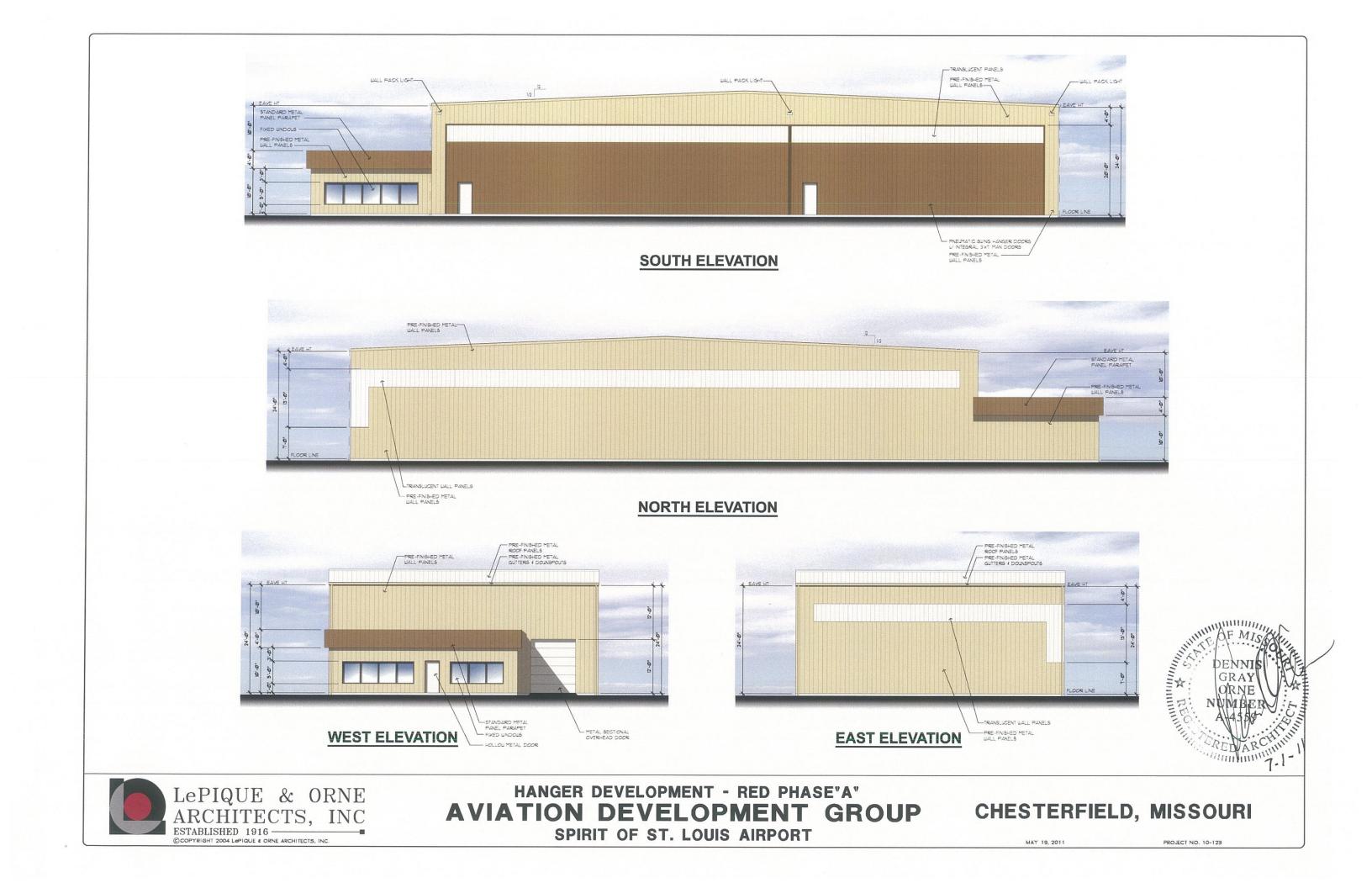
- Color Site Plan with contours, site location map, and identification of adjacent uses.
- Color elevations for all building faces.
- **Color rendering or model reflecting proposed topography.**
- Photos reflecting all views of adjacent uses and sites.
- **Details of screening, retaining walls, etc.**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



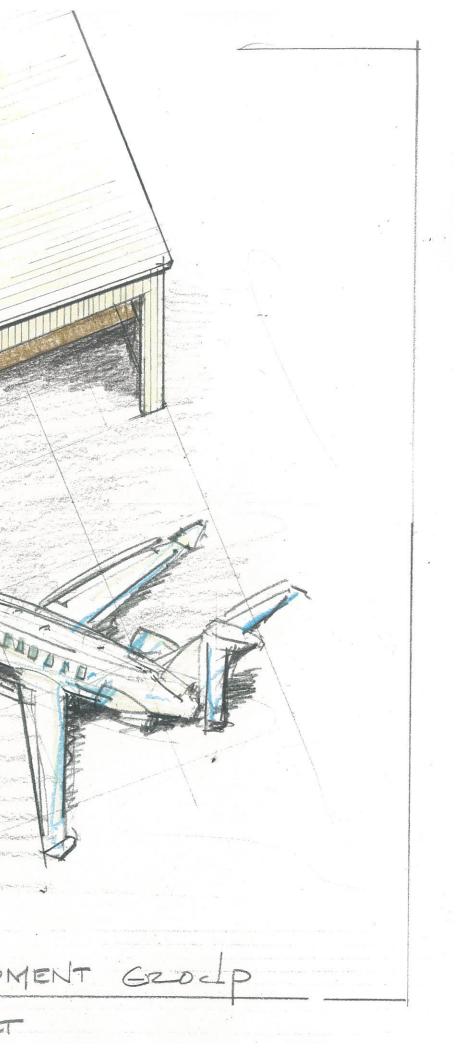








NEW HANGAR FOR AVIATION DEVELOPMENT GROLP Spirit of St. Louis Aiepoet





North Bell Hangars - Photo's of Adjacent Sites



View to north of property



View to the west of property across Bell 701 N. Fifth Street Saint Charles, Missouri 63301 (636) 947-0099 Fax (636) 947-8700





View to south of property across Edison Ave



View of property from Edison which includes view of property to the east





Aerial of Proposed Site



Architect's Statement of Design N. Bell Hangers at Spirit of St. Louis Airport

Site Design

Site Relationships: The site is configured to accommodate a working two bay aircraft hangar and a small administrative office. The low roofed office area is located nearest North Bell Avenue with a landscaping buffer between as to provide a logical transition from street to building structure. The site is a part of a two phase project, were the second phase will make use of common access points and aircraft staging areas. The building design & use is consistent to that of neighboring properties.

Circulation System & Access: The site is organized such that vehicular access and circulation is made from North Belle Avenue to the west; aircraft access and circulation is made from Taxiway F to the east. These two uses are separated by an onsite fence and gate. Additionally there is a well defined & short pedestrian walkway from the vehicular parking lot to the office entrance.

Topography: The existing topography is very flat and will not be significantly altered as a part of the proposed improvements.

Retaining Walls: Not Applicable.

Building Design:

Scale, Design, Material & Colors: The proposed 9,534 square foot aircraft hangar facility is to contain a 3,600 square foot hangar bay, a 4,800 square foot hangar bay, and a 1,134 square foot supporting office area.

The proposed building is to be constructed of a pre-engineered steel structure with pre-finished roof and wall panels. The building consists of two major elements: The high bay structure that contains the aircraft hangar bays, and a low bay structure that houses the administrative office component. The accompanying office component is low in height and contains a metal panel parapet band of a contrasting color which reinforces the horizontal banding of the larger structure. This banding along with introduction of nicely sized exterior windows provides a façade that is very approachable and brings the entire structure into human scale.

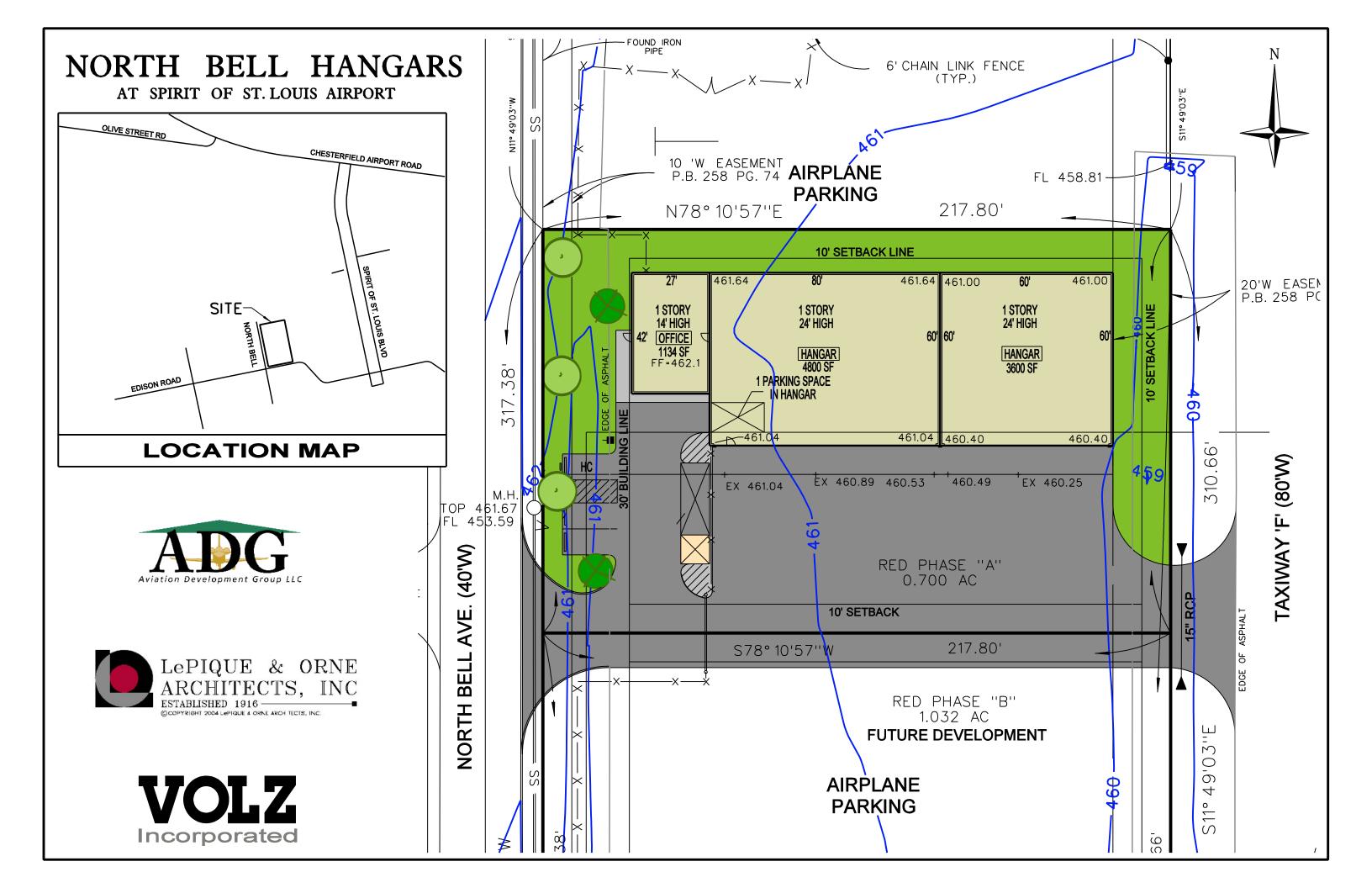
The exterior materials are of coordinating light and dark earth-tone colors with integrated translucent wall panel banding. This banding serves to provide natural light to the interior of the hangars while serving as a way to break up the exterior façade and brings visual interest to the building. The large hangar doors are of a contrasting earth-tone color and also contain the translucent panel band. The exterior windows will be solar bronze with medium or dark bronze frames which will coordinate well with the proposed building colors.

Landscape Design & Screening: Landscaping areas are located along the west, north and east property lines. The landscaping along the western property line contains five $2\frac{1}{2}$ " caliper deciduous trees that are somewhat evenly spaced along its length.

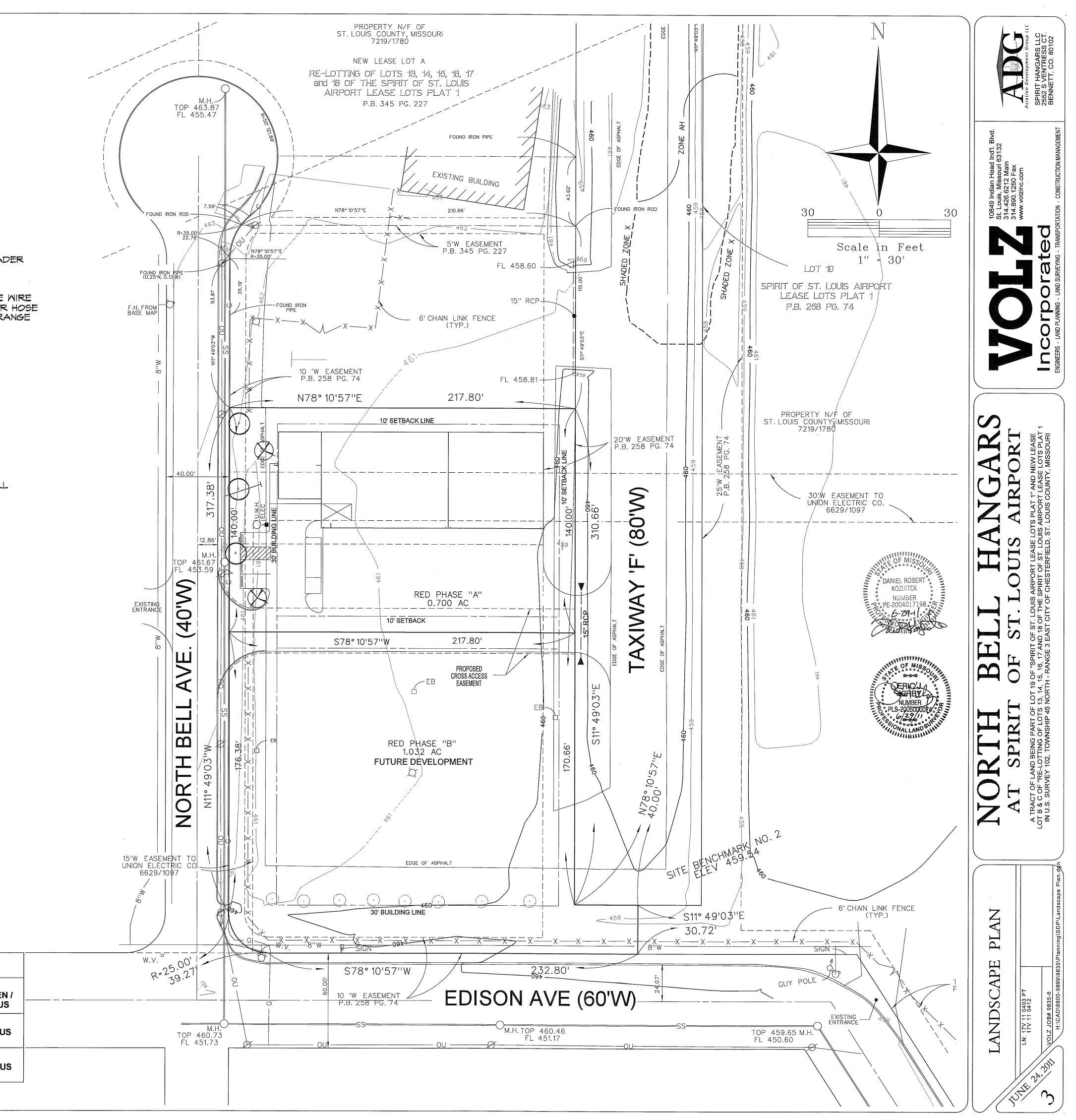
The trash enclosure is screened with a 6' high site proof fence. Note that there will be a relatively small HVAC condensing unit located along the north of the office area which will be screen by evergreen landscape shrubbery.

Signage: Signage has not yet been determined by the owner and will be submitted through the City of Chesterfield under a separate review process.

Lighting: Site lighting will be provided by one 20' high light pole with shoe box type light fixture, and three building mounted wall pacs. All fixtures will have light cut-off shields to prevent glare and excess light spillage outside of proposed property.



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DESCRIPTION

The Lumark Wal-Pak Series of wall luminaires provides traditional architectural style with high performance energy efficient illumination. Rugged die-cast aluminum construction, stainless steel hardware along with a sealed and gasketed optical compartment make the Wal-Pak virtually impenetrable to contaminants. IP65 Rated. Six available lamp sources including patent pending energy efficient LED, pulse start metal halide, compact fluorescent, ceramic metal halide, standard metal halide and high pressure sodium. UL and cUL wet location listed. The Wal-Pak wall luminaire is ideal for pathway illumination, building entrances, vehicle ramps, schools, tunnels, stairways and loading docks.

SPECIFICATION FEATURES

Housing

Rugged one-piece die-cast aluminum housing and hinged, removable die-cast aluminum door. One-piece silicone gasket seals the optical chamber. UL 1598 wet location listed and IP65 ingress protection rated. Not recommended for car wash applications.

Electrical

Ballasts, LED driver and related electrical components are hard mounted to the die-cast housing for optimal heat sinking and operating efficiency. Wiring is extended through a silicone gasket at the back of the housing. Three 1/2" threaded conduit entry points allow for thru-branch wiring. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from LED source. Integral LED electronic driver incorporates internal fusing designed to withstand a 3kV surge test and is Class 2 rated for 120-277V with an operating temperature of -30° to 60°C. WalPak LED systems maintain greater than 70% of the initial light output after 50,000 hours of operation. UL listed HID high power factor ballasts are Class H insulation rated (metal halide: 150, 175, 200, 250, 320, 350, 400W [-30°C / -20°F], (high pressure sodium: 50, 70, 100, 150, 250, 400W [-40°C / -40°F]. High efficiency HID ballasts are available in 120V, 208V, 240V, 277V, 347V and 480V. Compact fluorescent high power factor ballasts are Class P insulation rated for 120-277V and have a starting temperature of -18°C / 0°E

Optical

Highly reflective anodized aluminum reflectors provide high efficiency illumination. Optical assemblies include impact resistant borosilicate refractive glass, Solite[™] flat diamond patterned glass and full cutoff IESNA compliant configurations. Patent pending, solid state LED luminaires are thermally optimized with 2400 or 4000 lumen package modules. HID models are offered in horizontal medium or mogul-based

Catalog #	WPP40C	Туре
Project	AVIATION DELEVOPMENT GROUP	
Comments		Date
Prepared by		

metal halide [MH / MP] or high pressure sodium [HP] lamps. T6 ceramic metal halide [CM] and 4-pin compact fluorescent [CF] lamp models offer high efficiency energy saving illumination.

Door Assembly

Single point, captive stainless steel hardware secures the removable hinged door allowing for ease of installation and maintenance. Door assembly is hinged at the bottom for easy removal, installation and re-lamping.

Finish

Housing and door are protected with 5-stageTGIC dark bronze polyester powder coat paint. Premium TGIC power coat finishes withstand extreme climate changes while providing optimal color and gloss retention. Optional premium colors are available.

DARK SKY

COMPLIANT

FCO

10"







WP WAL-PAK 2400 - 4000 Lumen LED 39 - 400W **High Pressure Sodium**

Pulse Start Metal Halide Metal Halide **Ceramic Metal Halide** 32 - 140W

Compact Fluorescent

WALL MOUNT LUMINAIRE

TECHNICAL DATA UL and cUL Wet Location Listed IP65 Rated 40°C Maximum Ambient Temperature External Supply Wiring 90°C Minimum EISA (E, ARRA, Title 20 Compliant LM79 / LM80 Compliant

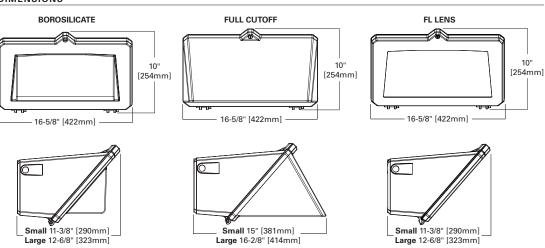
ENERGY DATA

Reactor Ballast Input Watts 50W HPS NPF (58 Watts) 70W HPS NPF (82 Watts) 100W HPS NPF (118 Watts) 150W HPS NPF (175 Watts) **High Reactance Ballast Input Watts** 50W MP HPF (69 Watts) 70W MP HPF (94 Watts) 100W MP HPF (129 Watts) 150W MP HPF (185 Watts) **CWA Ballast Input Watts** 200W HPS HPF (250 Watts) 200W MP HPF (227 Watts) (E) 250W MP HPF (283 Watts) (2) 320W MP HPF (365 Watts) 🗉 350W MP HPF (400 Watts) © 400W HPS HPF (465 Watts) 400W MP HPF (452 Watts) 🖲

SHIPPING DATA

Approximate Net Weight: 32-42 lbs. (15-19 kgs.) ADH092103 pc 2010-11-03 17:10:12







COOPER LIGHTING - LUMARK®

ORDERING INFORMATION

Sample Number: MPWP-GL-250-MT-2EM/SC/MR

Lamp Type Series MP=Pulse Start WP=Wal-Pak Metal Halide HP=High Pressure Sodium LD=Solid State Light Emitting Diodes (LED) CF=Compact Fluorescent ¹ CM=Ceramic Metal Halide ² MH=Metal Halide ³ STOCK SAMPLE NUMBER - L SAMPLE NUMBER: WPP40C	Door Type ⁴ GL=Borosilicate Glass Door FC=Full Cutoff Door FL=Flat Solite Glass Door PL=Polycarb Refractor Door	Lamp Wattage ⁵ LED 2A=(2400 Initial Lumens) 4A=(4000 Initial Lumens) MP 50=50W 70=70W 100=100W 200=200W 250=250W 320=220W 350=350W 400=400W MH 175=175W 250=250W 400=400W HP 50=50W 70=70W 100=100W 150=150W 250=250W	Voltage ⁶ 120V=120V 208V=208V 240V=240V 277V=277V 347V=347V ⁷ 480V=480V DT=Dual-Tap MT=Multi-Tap TT=Tri-Tap 5T=5-Tap E=Electronic Ballast ⁸ ED=Electronic LED Driver	EM/SC=Emerg QMR=Emerger 2QMR=Emerger 2QMR/SC=Em EMMR=Emerg 2EMMR=Emerg 2EMMR/SC=Ea and EM Separa EM/SC/MR=E EM/SC/12V=E	³⁰ ol button np ² ing weballic he ng um housi ning Balla ning Balla sis Lens ¹² ike T4 Lar y Quartz F ency Sack- tency Back- ency Back- gency Back- ency Back- ency Back- tency Bac	nusing st ¹¹ st ¹¹ np ¹³ estrike T4 L arate Circuit ip 1-MR16 L dack-Up MR1 -Up 1-MR16 k-Up 2-MR16 Back-Up 1-N Back-Up 1-N Back-Up Se Separate Ci	amp ^{14,15}	Full Cu FL Lens Int Scree te Vanc Glass L 13 -MR16 L 14, 15, 16 ps 14, 15, 16 ps 14, 15, 17	toff Do boor w and lal Shie ens Do	Bit eld fo bor
Series WP=Wal- Pak Pak L=LED Start Metal L=Lich VWatta P=Pulse Start Metal 10=10 Halide S=High 25=25 S=High	W C=Full Cutoff W Door DW DW DW	400=400W <u>CM</u> 39=39W 70=70W 100=100W 150=150W <u>CF</u> 32=32W 42=42W		EMI40/2L=Eme CF-EM=Emerge CF-EM/2L=Eme	ergency Co ency UL92 ergency U	old Tempera 4 CF Power L924 CF Pov	e UL 924 CF Power Pack 1 La Iture UL 924 CF Power Pack 1 Pack 1 Lamp ¹⁹ ver Pack 2 Lamp ¹⁹ Id Temperature ²⁰	amp ¹⁸ 2 Lamp	18	
Pressure 32=32 Sodium 40=40		57=57W	BUG R	TING	BL	G		в	U	
NOTES: Options not available with stock pro order information to add options. MT is stan not available in 100W. HPS not available in 3 door is standard. 2A and 4A models available	ducts. Refer to standard dard. Lamp Type: MP 20W. Borosilicate glass	70=70W 64=(2-32) 84=(2-42) 114=(2-57)		te Glass Door (GL) -2A-ED	0 3 1 3	2	Flat Lens Door (FL) LDWP-FL-2A-ED LDWP-FL-4A-ED	0 0	23	G 1
ED models are 120-277V.	o in celo only.	140=(2-70)		nate Lens (PL)	1 3	2	Eull Cutoff Door (EC)	v	5	

1 For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit www.iesna.org/PDF/Erratas/TM-15-07BugRatingsAddendum.pdf

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- NOTES: 1 CF Single lamp offered in all door configurations. CF dual lamp models not offered with FL door type. 70W models not available with EMI40-2L, CF-EM, CF-EM-2L. CF not available in 347V. 2 All CM models offered with T6 envelope G12 lamp base. T6 Lamp included with CM models. Order LL with CM models. Ceramic Metal Halide (CM) is available with (MP) pulse start metal halide or E - Electronic Ballast.
 - 400W MP must be ordered with LL option to be Title 20 Complaint 3 MH products available for non-US markets only.
 - 4 Small housing offered for 175W and below, CF and LD models. Large housing for 200W-400W. FL door not available with CF or 200-400W models. Polycarbonate lens available in models up to 175W max including LD. Polycarbonate lens not available with full cutoff door or FL models. Solite stipple glass is standard for FL lens. Clear glass
 - is standard for full cutoff door types except for LD. LD full cutoff door is standard with solite glass. 5 LD nominal initial lumens prior to optical and configuration losses based on 67 CRI/5000K package at 25°C ambient. MH and MP 175W and below are medium base all others are mogul base.
 - CF 64, 84, 114 and 140 models are offered in borosilicate glass and full cutoff doors only. In cold temperatures, compact fluorescent lamps produce lower illumination levels. CF 140 models and 400W HPS rated for 25°C. 6 See Voltage Chart for descriptions. 5T available in 400W MH models only. 90°C Rated wire required for thru-branch wiring for units 175W and lower. 105°C Rated wire required for

Polycarbonate Lens (PL)

I DWP-PL-2A-FD

LDWP-PL-4A-ED

- thru-branch wiring for units 200W and higher. Thru-branch wiring is rated for 40°C for LD and 175W and below. Higher watage thru-branch wiring is rated for use in 25°C ambient operating environments. 7 347V not available with thru-branch wiring. For 347 or 480V LD specify voltage. ED will be supplied with integral step down transformer. 347V not available with CF lamps. 8 Available with 70-150W MP or CM lamps. E is standard for all CF models. All electronic ballasts are universal 120-277V.

- 9 Not all options can be combined. Only one emergency or battery back-up option available within the fixture. CF Models utilize EMI40, EMI40/2L, CF/EM or CF-EM/2L option for emergency egress. LD Models utilize EM-LED or EMLED-CD options only for battery back-up.
- 10 Must specify voltage. F1=120, 277 or 347V. F2=208, 240 or 480V. PE=120, 208, 240 or 277V. 11 DIMA dimming ballast, specify number of lamps, available for 1 or 2-26W or 1-32W, 1-42W. DIMB available for 2-42W, 1-57W or 1-70W.
- 12 SGL optional on HID and CF models only. See note number 4. 13 Q or EM not available with LD or E electronic ballast. Q or EM Minimum HID wattage is 70 watts. EM/SC available in 120V only, EM/SC not available with LD. Maximum 100W 120V T4 DC Bayonet Quartz lamp. Lamp supplied by others. 14 QMR, 2QMR, EMMR, 2EMMR & 2EMMR/SC not available with LD or E electronic ballast. Minimum HID wattage is 70 watts.
- 15 1 or 2 GU10 base 50W max 120V Halogen. Lamps supplied by others. EM/SC/MR, 2EM/SC/MR, EM/SC/12V, 2EM/SC/12V not available with LD. 16 Emergency lamp leads out of the back of the unit to auxillary power. Lamps independently wired to separate circuits.

- 17 Low Voltage 1 or 2 GU5.3 MR16 base, 12V DC, 35W max. Lamps supplied by others. 18 For use in 25°C ambient operating temperature environments. EMI40, EMI40/2L used for CF lamps. Specify 120 or 277V. EMI40 supports 1-70W CF max, EMI40/2L supports 2-32W CF max. Minimum -18°C/-4°F. 19 For use in 25°C ambient operating temperature environments. Specify 120 or 277V, CF-EM supports up to 1-57W CF. CF-EM/2L supports 2-18W CF, 18W lamps supplied by others. Minimum temperature is 0°F/32°C. 20 EMLED-CD available with 4A models only. For use in 25°C ambient operating temperature environments. Specify 120 or 277V. EMLED-CD minimum -20°C/-4°F. Battery pack is a UL recognized component. 21 Order separately.

OLTAGE CHART	
)T=Dual-Tap	120/277 (wired 277V)
/IT=Multi-Tap	120/208/240/277 (wired 277V)
T=Tri-Tap	120/277/347 (wired 347V)
T=5 Tap	120/208/240/277/480 (wired 480V)
=Electronic Ballast	120-277V (Universal) (50/60 HZ)
D=Electronic LED Driver	120-277V (Universal) (50/60 HZ)

WATTAGE	
50, 70, 100, 150, 200, 250, 320, 350, 400W	
175, 250, 400W	
50, 70, 100, 150, 250, 400W	
39, 70, 100, 150W	
(1) 32, (1) 42, (1) 57, (1) 70, (2) 32, (2) 42, (2) 57, (2) 70	
2A (2400 Initial Lumens), 4A (4000 Initial Lumens)	
	50, 70, 100, 150, 200, 250, 320, 350, 400W 175, 250, 400W 50, 70, 100, 150, 250, 400W 39, 70, 100, 150W (1) 32, (1) 42, (1) 57, (1) 70, (2) 32, (2) 42, (2) 57, (2) 70

Full Cutoff Door (FC)

0

0

1

1

I DWP-EC-2A-ED

LDWP-FC-4A-ED



COOPER LIGHTING

SSS SQUARE STRAIGHT STEEL

10'-39' Mounting Height

4-Bolt Anchor Base

Catalog #	SSS4A20SFM1	Туре
Project	AVIATION DEVELOPME	NT
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Fixture Mounting Drilled or Tenon (Must specify. See fixture mounting).

Shaft

-

ASTM A500 grade "B" steel shaft. Shot blasted and painted with polyester powder coat.

Handhole

Handhole assembly 3" x 5" on 5" and 6" poles; and 2" x 4" on 4" pole.

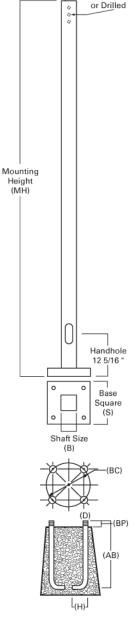
Base ASTM Grade steel base plate with ASTM A366 base cover.

Anchorage (Four Bolt) Anchor bolt per ASTM A576 with (2) nuts, (2) flat washer, and (1) lock washer. Nuts, washers and threaded portion of bolt are hot dip galvanized 3" hook for 3/4" bolt, 4" hook for 1" bolt.

POLE COMPATIBILITY MATRIX	DRILL	EPA + MOUNTING CONFIGURATI) N S
	PATTERN	Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	4 @ 90°
PRODUCT	TENON	w/Arm [1]	[2]	[5]	[3]	[6]	[4]
TALON MEDIUM (Recessed Door)	м	1.22	2.44	2.44	3.23	3.23	3.63
TALON MEDIUM (Deep Door)	м	1.45	2.90	2.90	3.92	3.92	4.43
TALON LARGE	м	2.51	5.02	5.02	6.85	6.85	7.77
GALLERIA SQUARE SMALL ARM MOUNT	м	1.7	3.4	3.4	4.6	4.6	5.2
GALLERIA SQUARE SMALL SPIDER MOUNT	2 3/8"	1.04					
GALLERIA SQUARE MEDIUM ARM MOUNT ²	м	2.9	5.8	6.8	9.2	9.2	10.4
GALLERIA SQUARE MEDIUM SPIDER MOUNT	3" or 3 1/2"	2.22					
GALLERIA SQUARE LARGE ARM MOUNT ²	м	4.4	8.8	9.8	13.7	13.7	15.65
GALLERIA SQUARE LARGE SPIDER MOUNT	3" or 3 1/2"	3.7					
GALLERIA ROUND MEDIUM ARM MOUNT ²	м	2.2	4.4	5.4	7.1	7.1	7.95
GALLERIA ROUND MEDIUM SPIDER MOUNT	3"	2					
GALLERIA ROUND LARGE ARM MOUNT ²	м	3	6	7	9.5	9.5	10.75
GALLERIA ROUND LARGE SPIDER MOUNT	3"	2.8					
TRIBUTE	м	1.62	3.24	3.24	4.43	4.43	5.03
CLM/CML SQUARE ²	м	3.1	6.2	7.2	9.8	9.8	11.1
LANDAU 3	м	2.7	5.4	6	8.5	8.5	9.75
CIRRUS SMALL ARM MOUNT	Z	1.19	2.38	2.38	3.57	3.57	4.17
CIRRUS SMALL YOKE/SPIDER MOUNT	4" (CIS), 5" (CIG)	1.13					
CIRRUS MEDIUM ARM MOUNT	Z	1.7	3.4	3.4	5.1	5.1	5.95
CIRRUS MEDIUM YOKE/SPIDER MOUNT	5"	1.52					
CIRRUS LARGE ARM MOUNT	Z	2.36	4.72	4.72	7.08	7.08	8.26
CIRRUS LARGE YOKE/SPIDER MOUNT	6"	2.1					
CREDENZA SMALL ARM MOUNT	Z	1.19	2.38	2.38	3.57	3.57	4.17
CREDENZA SMALL YOKE/SPIDER MOUNT	4" (ZDS), 5" (ZDG)	1.13					
CREDENZA MEDIUM ARM MOUNT	Z	1.7	3.4	3.4	5.1	5.1	5.95
CREDENZA MEDIUM YOKE/SPIDER MOUNT	5"	1.52					
CREDENZA LARGE ARM MOUNT	Z	2.36	4.72	4.72	7.08	7.08	8.26
CREDENZA LARGE YOKE/SPIDER MOUNT	6"	2.1					



WARNING: THE USE OF UNAUTHORIZED ACCESSORIES SUCH AS BANNERS, SIGNS, CAMERAS OR PENNANTS FOR WHICH THE POLE WAS NOT DESIGNED VOIDS THE COOPER LIGHTING POLE WARRANTY AND MAY RESULT IN POLE FAILURE CAUSING SERIOUS INJURY OR PROPERTY DAMAGE. UPON REQUEST. COOPER LIGHTING WILL SUPPLY INFORMATION REGARDING TOTAL LOADING CAPACITY. COOPER LIGHTING'S POLE WARRANTY IS VOID UNLESS POLES ARE USED AND INSTALLED AS A COMPLETE POLE/LUMINAIRE COMBINATION. THIS WARRANTY SPECIFICALLY EXCLUDES FAILURE AS THE RESULT OF A THIRD PARTY ACT OR OMISSION, MISUSE, UNANTICIPATED USES, FAITIGUE FAILURE OR SIMILAR PHENOMENA RESULTING FROM INDUCED VIBRATION, HARMONIC OSCILLATION OR RESONANCE ASSOCIATED WITH MOVEMENT OF AIR CURRENTS AROUND THE PRODUCT.



Fixed Tenon

FOUR BOLT ANCHORAGE (see ordering information)

BC=Bolt Circle BP=Bolt Projection AB=Anchor Bolt D=Bolt Diameter H=Bolt Dimensions

Existing	g Contou	ırs
Proposed	l Contou	ırs
Existing	g Sanita	ary
Proposed	l Sanita	ary
Existing	g Storm	Se
Proposed	l Storm	Se
FIRE HYD	DRANT	

LEGEND



DESIGN IS BASED ON CURRENT INFORMATION PROVIDED AT THE TIME OF REQUEST. ANY CHANGES IN MOUNTING HEIGHT OR LOCATION, LAMP WATTAGE, LAMP TYPE, AND EXISTING FIELD CONDITIONS, THAT EFFECT ANY OF THE PREVIOUSLY MENTIONED, WILL VOID CURRENT LAYOUT AND REQUIRE A CHANGE REQUEST AND RECALCULATION. FIXTURE MOUNTED ON 20' POLE & 2.5' BASE (PROVIDED BY OTHERS) POLE MOUNTED FIXTURES AT 22.5FT A.F.G. BUILDING MOUNTED FIXTURES AT 24FT A.F.G.

LIGHT LEVEL CALCULATED AT GRADE

ummary							
CalcTy	CalcType		its	Avg	Max	Min	Avg/M
Illumir	nance	Fc		2.59	10.2	0.3	8.63
Illumir	nance	Fc		0.30	8.5	0.0	N.A.
Illumir	nance	Fc		1.49	10.6	0.0	N.A.
edule							
Qty Label Arrangement Total Lamp Lumens						LLF	
1	F1		SINGLE		30000		0.65
3	F2		SINGLE		44000		0.70
	CalcTyp Illumir Illumir Illumir edule Qty 1	CalcType Illuminance Illuminance Illuminance edule Qty Label 1 F1	CalcTypeUnIlluminanceFcIlluminanceFcIlluminanceFceduleQtyLabelF1	CalcTypeUnitsIlluminanceFcIlluminanceFcIlluminanceFceduleQtyLabelArranges1F1SINGLE	CalcTypeUnitsAvgIlluminanceFc2.59IlluminanceFc0.30IlluminanceFc1.49edule	CalcTypeUnitsAvgMaxIlluminanceFc2.5910.2IlluminanceFc0.308.5IlluminanceFc1.4910.6eduleVLabelArrangementTotal Lar1F1SINGLE30000	CalcTypeUnitsAvgMaxMinIlluminanceFc2.5910.20.3IlluminanceFc0.308.50.0IlluminanceFc1.4910.60.0eduleVLabelArrangementTotal Lamp Lumens1F1SINGLE30000

