



690 Chesterfield Pkwy W • Chesterfield MO 63017-0760
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January 7, 2011

Architectural Review Board
City of Chesterfield
690 Chesterfield Parkway West
Chesterfield, Missouri 63017

Spirit of St. Louis Airpark (Spirit Hangars): Amended Architectural Elevations and Amended Architect's Statement of Design for a 5.497 acre tract of land zoned "M3" Planned Industrial District located west of the intersection of Wings of Hope Boulevard and Spirit of St. Louis Boulevard, more specifically addressed 18366 Wings of Hope Boulevard.

Board Members:

Adams Architectural Associates has submitted, on behalf of Sycamore Company LLC, Amended Architectural Elevations and an Amended Architect's Statement of Design for the above referenced project. The Department of Planning and Public Works has reviewed this request and submits the following report.

Submittal Information

The request is for a 31,200 square foot structure located at 18366 Wings of Hope Boulevard in the Spirit of St. Louis Airpark Subdivision. The subject site is zoned "M3" Planned Industrial District and is governed under the terms and conditions of the City of Chesterfield Ordinance 1430. The exterior building materials will be comprised of insulated glass and metal panels. The roof will be comprised of tapered polyiso insulation and metal. Please see the attached checklist to see Staff's review of the project's compliance with the City of Chesterfield's Design Standards.

There are two (2) buildings proposed for the subject site. This review will only pertain to the structure closet to the entrance located on the easternmost portion of the site. Elevations for the second structure were previously approved in April of 2006.

Departmental Input

The submittal was reviewed for compliance with the City of Chesterfield's Design Standards and City of Chesterfield Ordinance 1430. Additionally, the Site Development Section Plan and Landscape Plan were approved on March 24, 2010. Signage is not reviewed during this portion of the process and will be reviewed by the Department of Planning and Public Works.

This site was previously before this Board in April 2006 at which time architectural elevations for this structure were reviewed and subsequently approved by the Planning Commission. Construction commenced shortly thereafter, however due to economic conditions, work on the site ceased. In 2009 permits were re-opened and construction continued. During a site inspection it was discovered that the exterior elevations of the building were not built in accordance with the approved elevations. Staff advised the property owner that the site would have to be built in accordance with the approved plans or the property owner would have to apply to the Architectural Review Board and Planning Commission for review and request for approval of the amended elevations.


*Please note that there are wallpack light fixtures on the western, southern and northern elevations of the building which are not shown on the renderings or elevations from the Applicant.

Attached is a copy of the elevations as reviewed and approved by the City of Chesterfield, photos of how the site was constructed, and the current submittal by the Applicant.

Action Requested

The Department of Planning and Public Works requests action by the Architectural Review Board on this project.

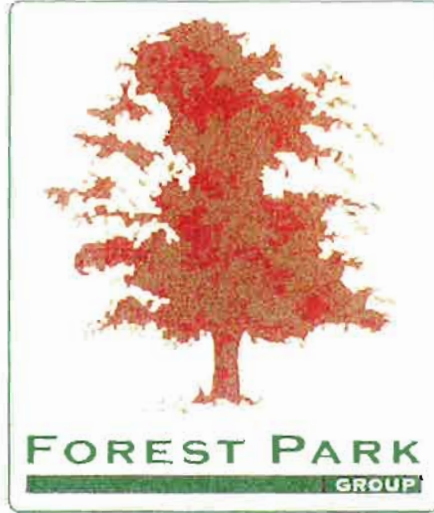
Respectfully submitted,



Aimee Nassif, AICP
Planning and Development Services Director

Attachments

1. Architectural Review Packet Submittal



PROPOSED DEVELOPMENT & ADDITION TO
SPIRIT OF ST. LOUIS AIRPORT

FOREST PARK GROUP PRESENTS:
SPIRIT HANGARS
18366 AVIATION MUSEUM BOULEVARD





ARCHITECTURAL REVIEW BOARD
Project Statistics and Checklist

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

Project Title: SPIRIT HANGARS Location: 18366 WINGS OF HOPE BLVD

Developer: FOREST PARK GROUP Architect: MATT ADAMS Engineer: ABRAHAM ENG. INC.

PROJECT STATISTICS:

Size of site (in acres): 5.497 Total Square Footage: 31,200 Building Height: 42' - 10" MAX.

Proposed Usage: AIRPLANE HANGAR & OFFICES

Exterior Building Materials: GLAZING CURTAIN WALLS & METAL PANELS

Roof Material & Design: 60 MIL. TAPERED POLY ISO INSULATION & METAL

Screening Material & Design: PARAPET WALLS & CONCRETE BLOCK

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

ADDITIONAL PROJECT INFORMATION:

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

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



ADAMS ARCHITECTURAL ASSOCIATES

P.O. Box 230
Chesterfield, MO 63006-0230
(636) 537-9333 • Fax (636) 537-1267

Re: Architects Statement

Dear Members of the Architect Review Board,

The following is the Architects Statements for the Spirit Hangars.
One hangar/office building.

Site Design

Site Relationships:

The project site is within the St. Louis Airpark and contains adjusted lot #2 totaling 5.4 +/- acres. The lot will contain one building consisting of and office/hangar building of 31,200 s.f.. The site is fairly flat as most sites in Chesterfield Valley area. The site is bordered to the north by the Wings of Hope facility and to the south by the runway.

The office/hangar building footprints is arranged to allow for full glazing on three elevations. The building incorporates and entryway on the northeast side. The building is sited to create a "campus like feeling" about one curb cut for both lots on the northeast property line. The site is bordered to the north, east and west by natural drainage swales and the topography is such to support this function.

Circulation System and Access:

The pedestrian circulation on the site is primarily limited to travel

Developers of Planned Communities

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from their vehicles to the main entries. The automobile circulation is via a curb cut off Wings of Hope Blvd. and is the only curb cut and will be shared by both buildings. The parking, loading zones are located to independently support each building as a stand alone. There is one trash enclosure for the complex and it is located at the southeast corner of the site.

The site relates to human scale and context with the buildings around by implementing similar scale, massing and materials. The location of the building entry is positioned for clarity of circulation by the visiting patrons.

Topography:

The current site is in Phase one finish state and building pad state on Phase two and is currently devoid of vegetation. The building has introduced landscaping to control site lines to the building. The tenant entryway has incorporated planting in order to soften the transition between parking and building.

All parking lot water drains to the swales located around the site. The roof storm water is collected through internal roof drains and downspouts and piped underground to discharge into drainage swales at the property perimeter.

Retaining Walls:

There are no retaining walls incorporated into this project.

Building Design

Scale:

This design accommodates the office and airplane hangar so the vertical metal panels of the hangar serve to lift the eye skyward.

At the building entrance to the office the rotunda adds the softening element to transform from a box to the striking entrance. The horizontal mullions give the office area a softening human scale.

Design:

The design of this building borrows elements of the existing buildings in the area while trying to set precedence for the future buildings in quality and scale. The screening material will match the glazing color and conceal the rooftop equipment from the street scape. The trash enclosure is located away from the predominant street view.

Materials/Colors:

The materials on the building include full storefront glazing system on three sides at office/display area with dark bronze frames and glazing. The hangar materials are a full smooth flat panel with concealed fastener system to eliminate the traditional metal building looking structure in a complimentary silver metallic finish.

Landscape Design and Screening:

The landscaping away from the building is located to screen utilities. Concrete curbs are used at all pavement/grass or planting intersections and will provide the protection for all landscaping. The landscape design will promote each individual building with its own identity while respecting the campus homogeneity. Lawn irrigation is used to keep all the vegetation healthy during the dry months.

All on site utilities are underground. The transformer is located

to avoid visibility as much as possible.

The trash enclosure is built from masonry construction to hide the dumpster inside and a Trex latching gate keeps any loose debris contained.

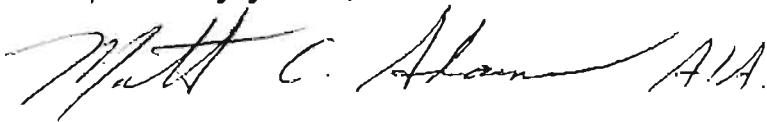
Signage:

Signage for the project has not been determined. Once the exact type and style is determined it will go through the proper permitting process.

Lighting:

The parking areas are lighted by standard poles and wall paks.

Respectfully yours,

A handwritten signature in black ink that reads "Matt C. Adams AIA." The signature is fluid and cursive, with the initials "AIA." clearly visible at the end.

Matt C. Adams
Adams Architectural Associates



ADAMS ARCHITECTURAL ASSOCIATES

P.O. Box 230
Chesterfield, MO 63006-0230
(636) 537-9333 • Fax (636) 537-1267

Re: Change in Building Elevations

Dear Members of the Architect Review Board,

The following describes the owners reasoning for changing the elevations of the building:

The owner acknowledges changing the elevations of the office/hangar building from the elevations approved under the original plan. The reason the owner changed the elevations was to provide for a more aesthetic and modern look to the office component of the building. In addition, the glazing system for the building is insulated and tinted to increase the overall building efficiencies.

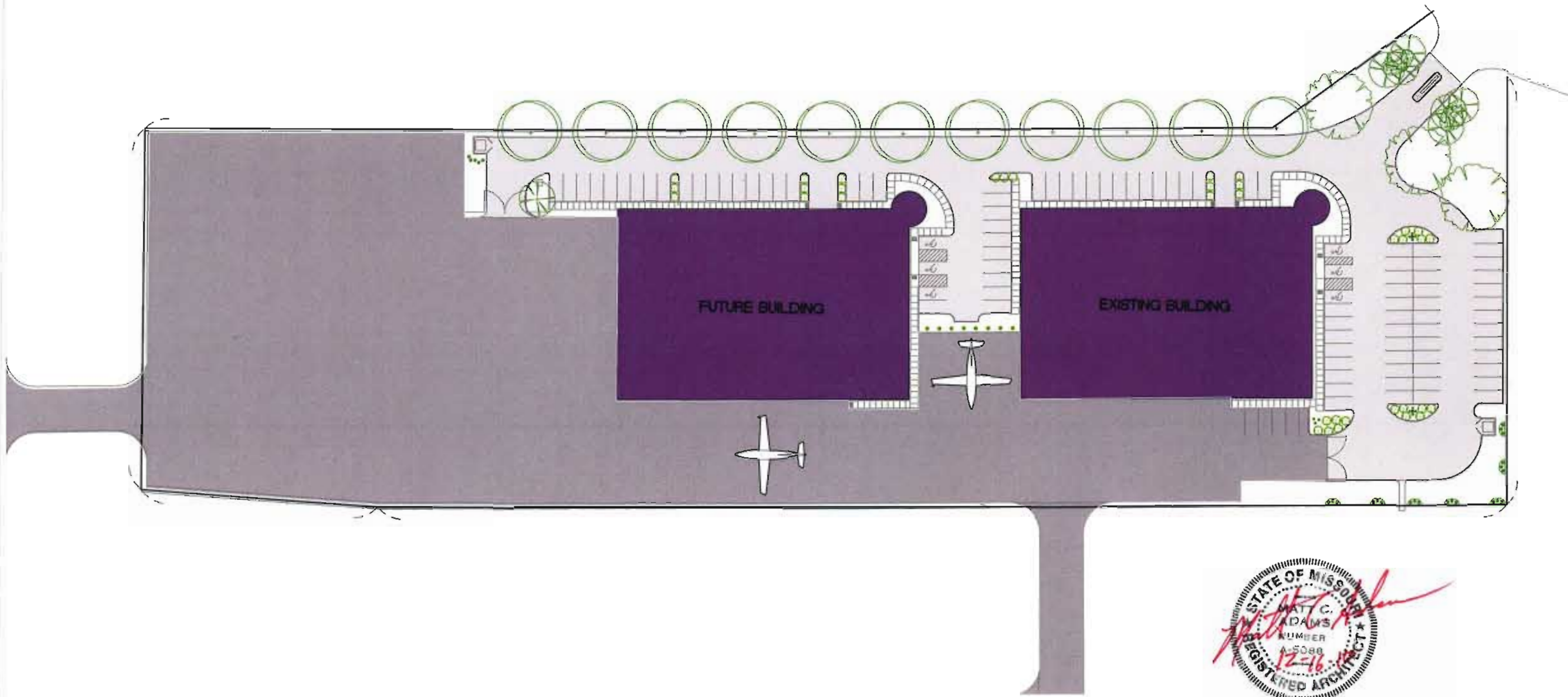
Respectfully yours,

A handwritten signature in cursive that reads "Matt Adams" followed by "AIA." in a slightly larger, more formal script.

Matt C. Adams
Adams Architectural Associates

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SITE PLAN
 SCALE: 1/64"=1'-0"
 DECEMBER 16, 2010

ARCHITECTURAL REVIEW BOARD SUBMISSION
 SYCAMORE AVIATION, LLC
SPIRIT HANGARS
 18366 WINGS OF HOPE BLVD
 CHESTERFIELD, MO 63005

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MATT C. ADAMS - ARCHITECT AIA / NCARB COPYRIGHT ©

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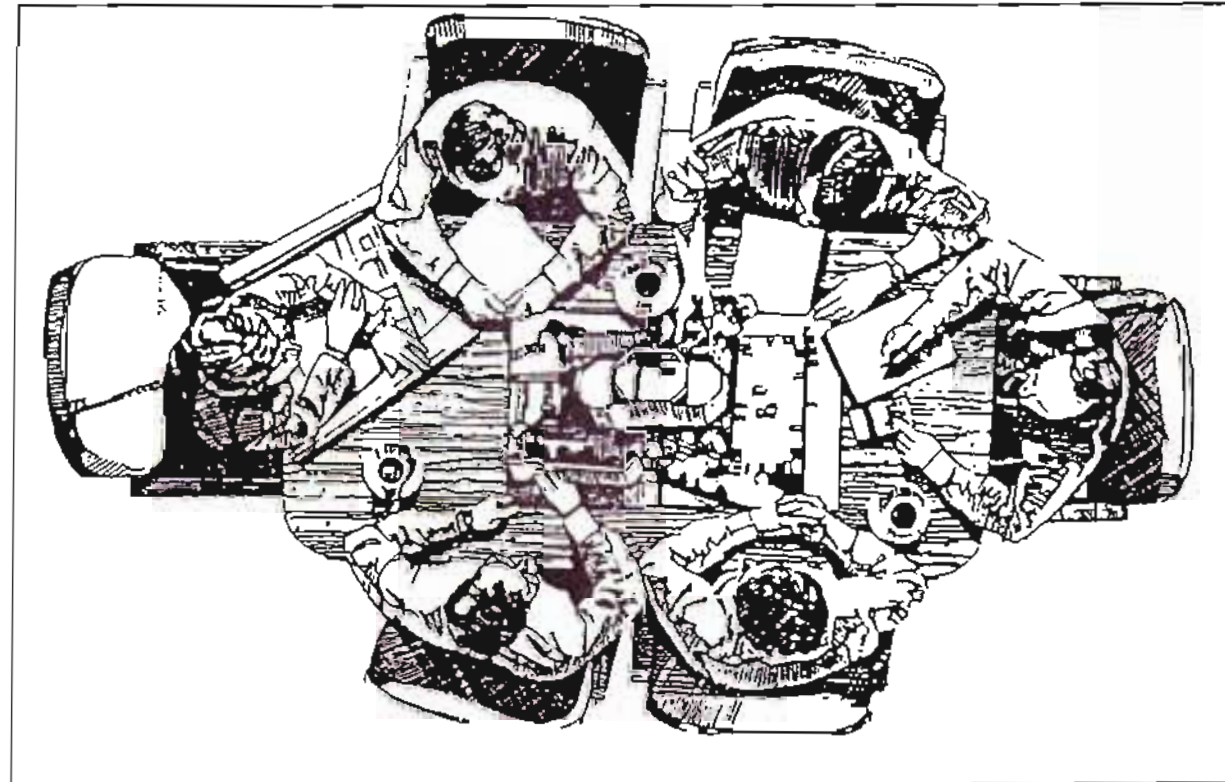
FIG. BOX 236
 CHESTERFIELD, MO 63006-0236
 (636) 537-6633
 (636) 537-1267 - FAX



ARCHITECTURAL REVIEW BOARD SUBMISSION
SYCAMORE AVIATION, LLC
SPIRIT HANGARS
18366 WINGS OF HOPE BLVD
CHESTERFIELD, MISSOURI 63005



DECEMBER 16, 2010



Adams Architectural Associates

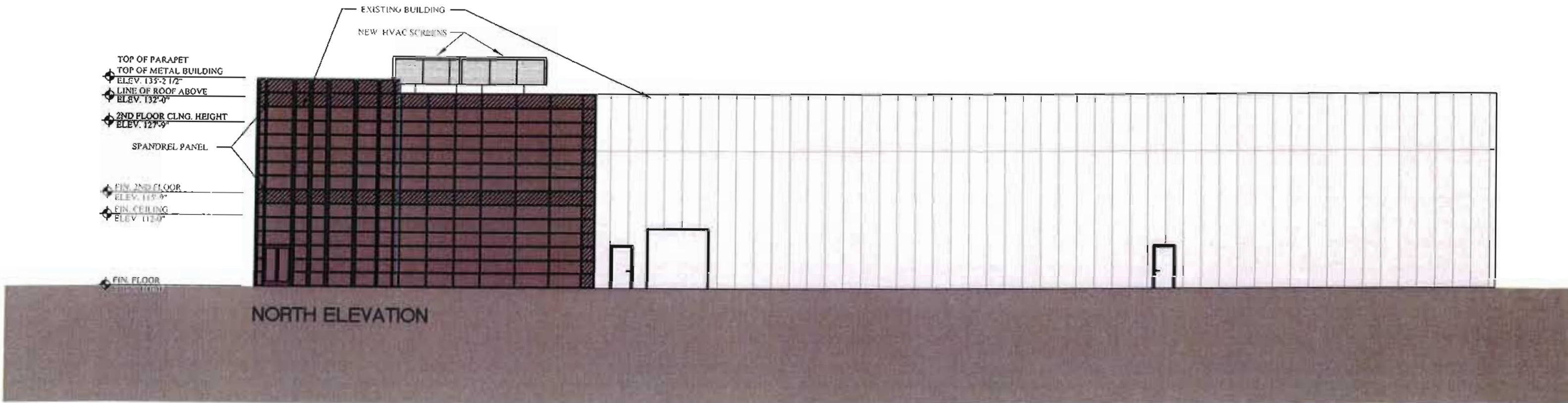
P.O. BOX 230
CHESTERFIELD, MO 63306-0230

PHONE : (636) 537-9333

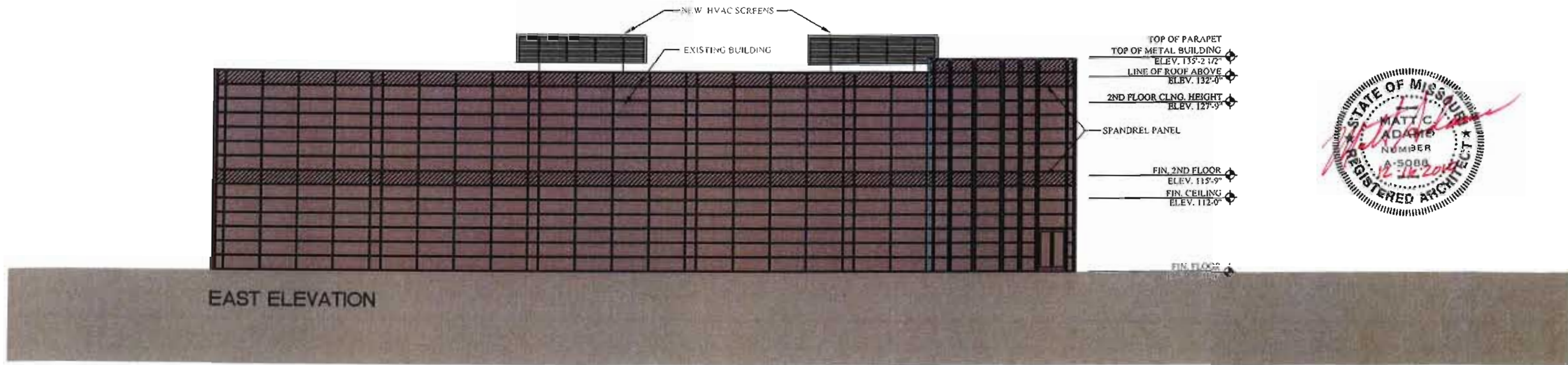
FAX : (636) 537-1267



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NORTH ELEVATION



EAST ELEVATION



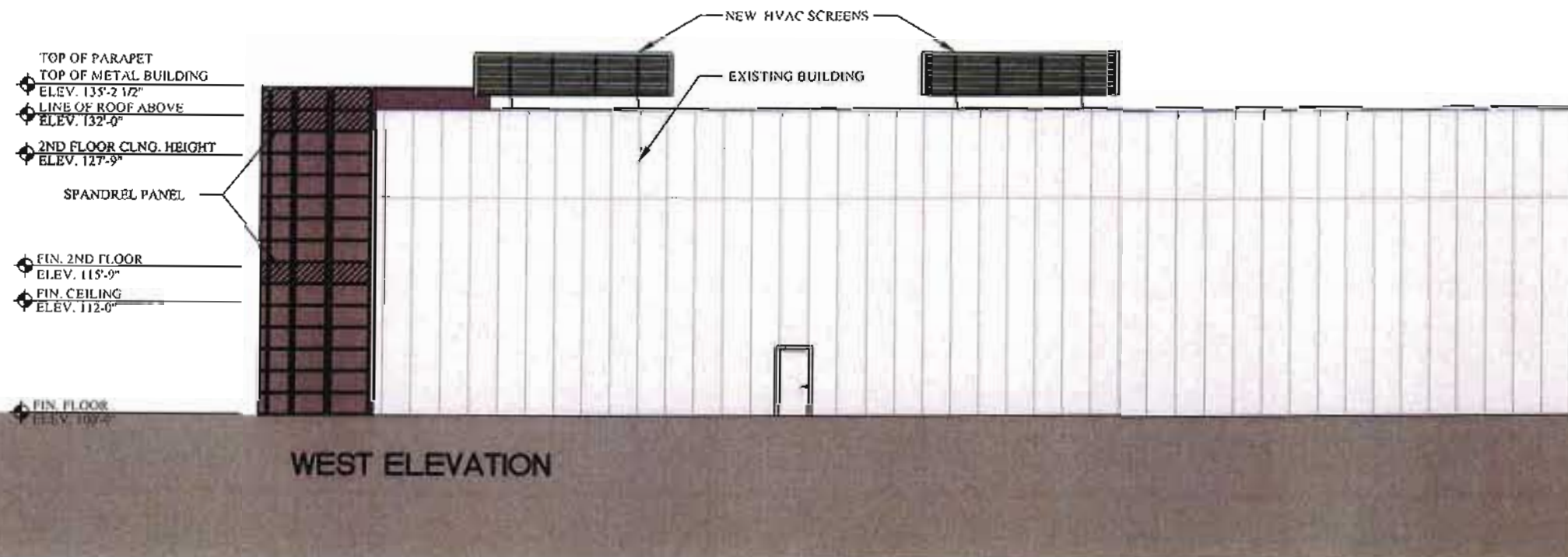
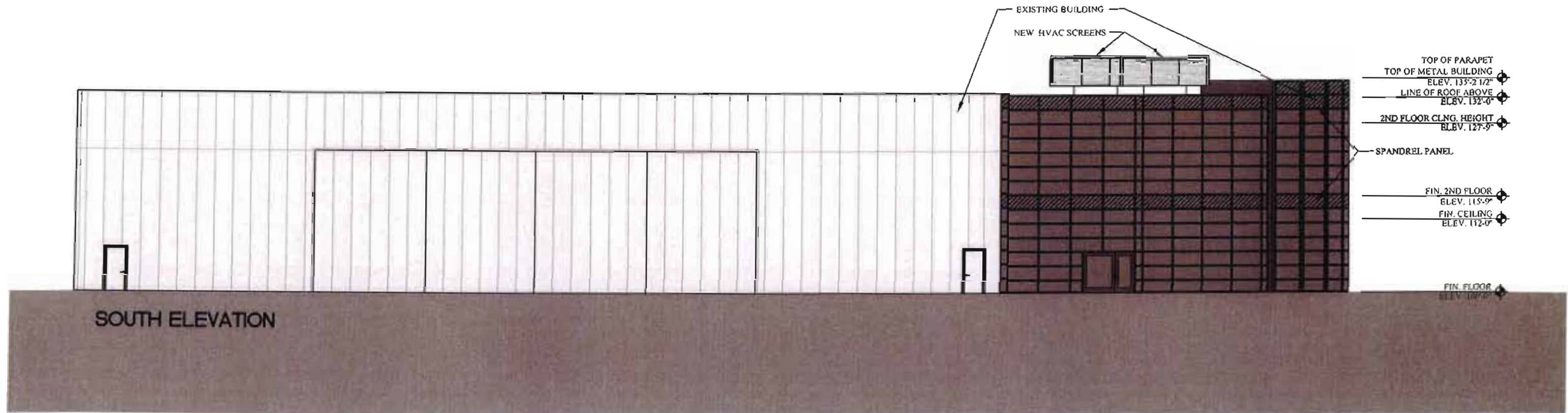
NORTH AND EAST ELEVATIONS
 SCALE: 1/8"=1'-0"
 DECEMBER 16, 2010

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SPIRIT HANGARS
 18366 WINGS OF HOPE BLVD
 CHESTERFIELD, MO 63005

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SOUTH AND WEST ELEVATIONS

SCALE: 1/16" = 1'-0"
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(636) 537-1261 FAX



FRONT VIEW RENDERING

SCALE: NONE
DECEMBER 16, 2010

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18366 WINGS OF HOPE BLVD
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EAST VIEW RENDERING

SCALE: NONE
 DECEMBER 16, 2010

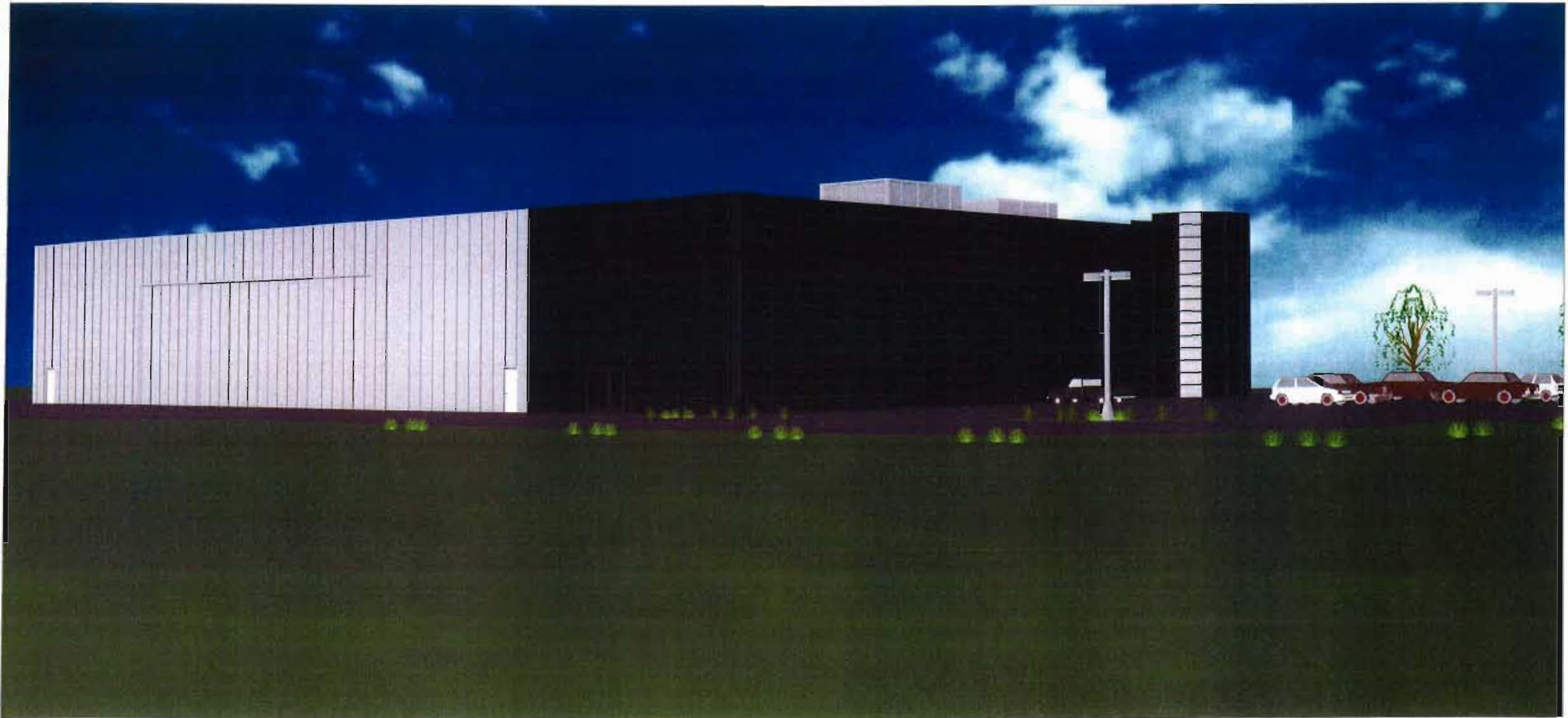
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 SYCAMORE AVIATION, LLC
SPIRIT HANGARS
 18366 WINGS OF HOPE BLVD
 CHESTERFIELD, MO 63005



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 400 N. 21st
 CHESTERFIELD, MO 63005-0207
 636.257-8537
 636.257-1247 FAX





SOUTHEAST VIEW RENDERING

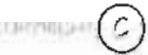
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DECEMBER 16, 2010

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SPIRIT HANGARS
18366 WINGS OF HOPE BLVD
CHESTERFIELD, MO 63005



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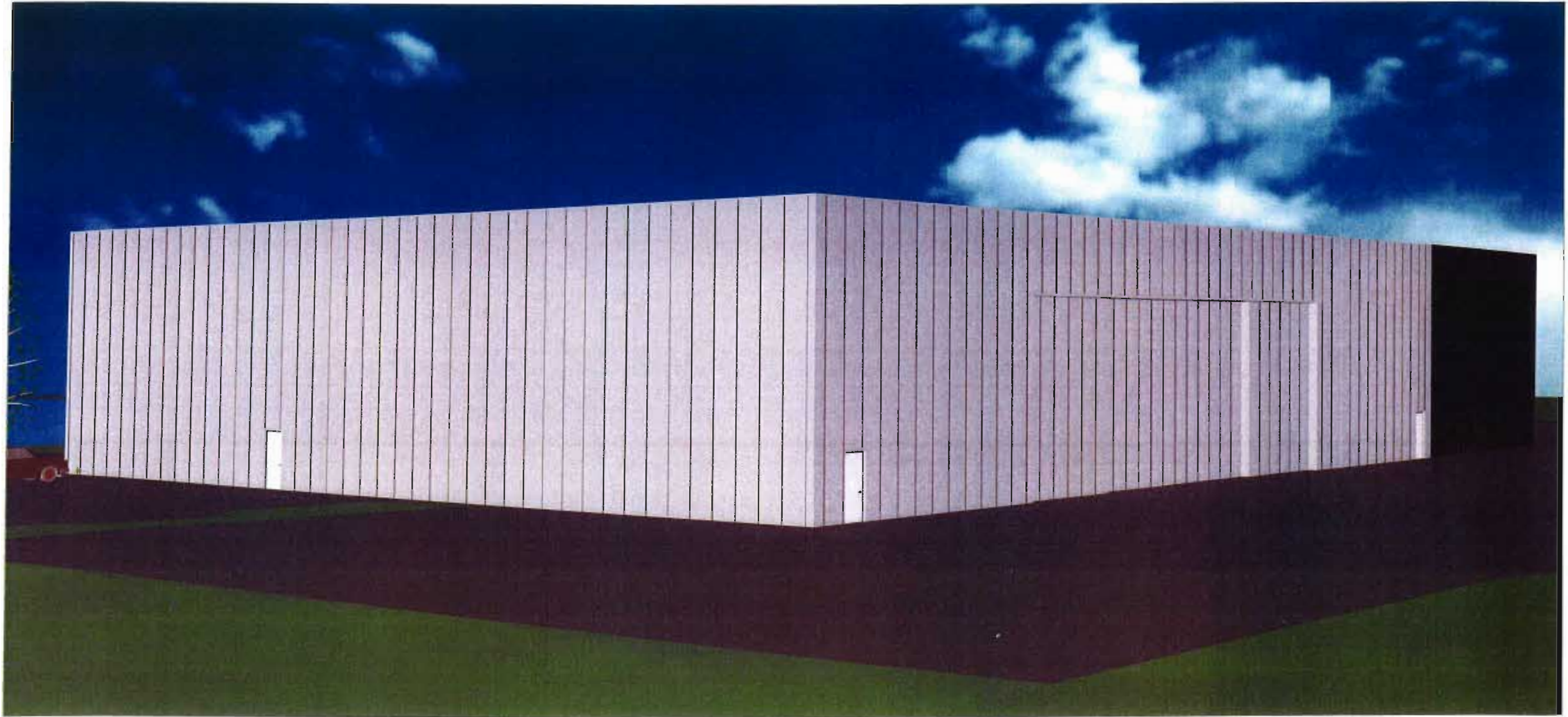
MATT C. ADAMS - ARCHITECT AIA / NCARB



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SOUTHWEST VIEW RENDERING

SCALE: NONE
DECEMBER 16, 2010

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18366 WINGS OF HOPE BLVD
CHESTERFIELD, MO 63005



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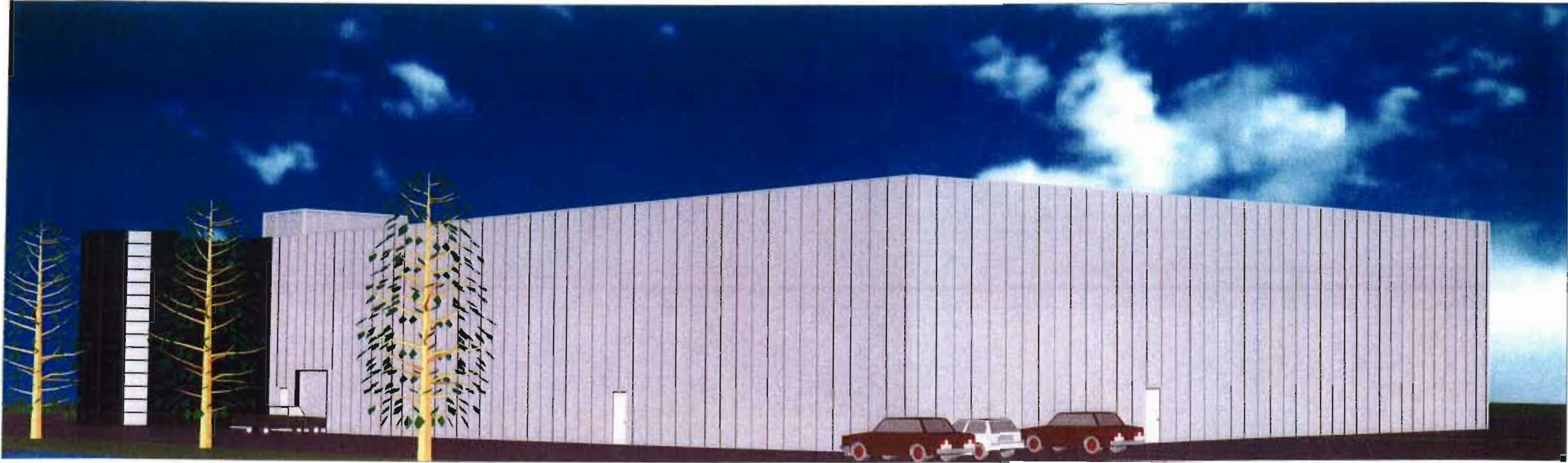
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CHESTERFIELD, MO 63005-0450
TEL: 636.833.4551
FAX: 636.833.1844



NORTHWEST VIEW RENDERING

SCALE: NONE
DECEMBER 16, 2010

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 SYCAMORE AVIATION, LLC
SPIRIT HANGARS
 18366 WINGS OF HOPE BLVD
 CHESTERFIELD, MO 63005



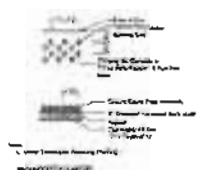
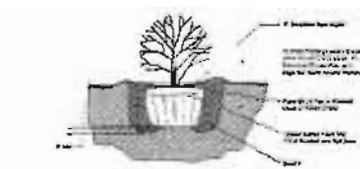
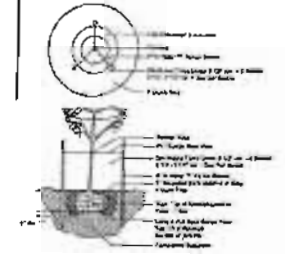
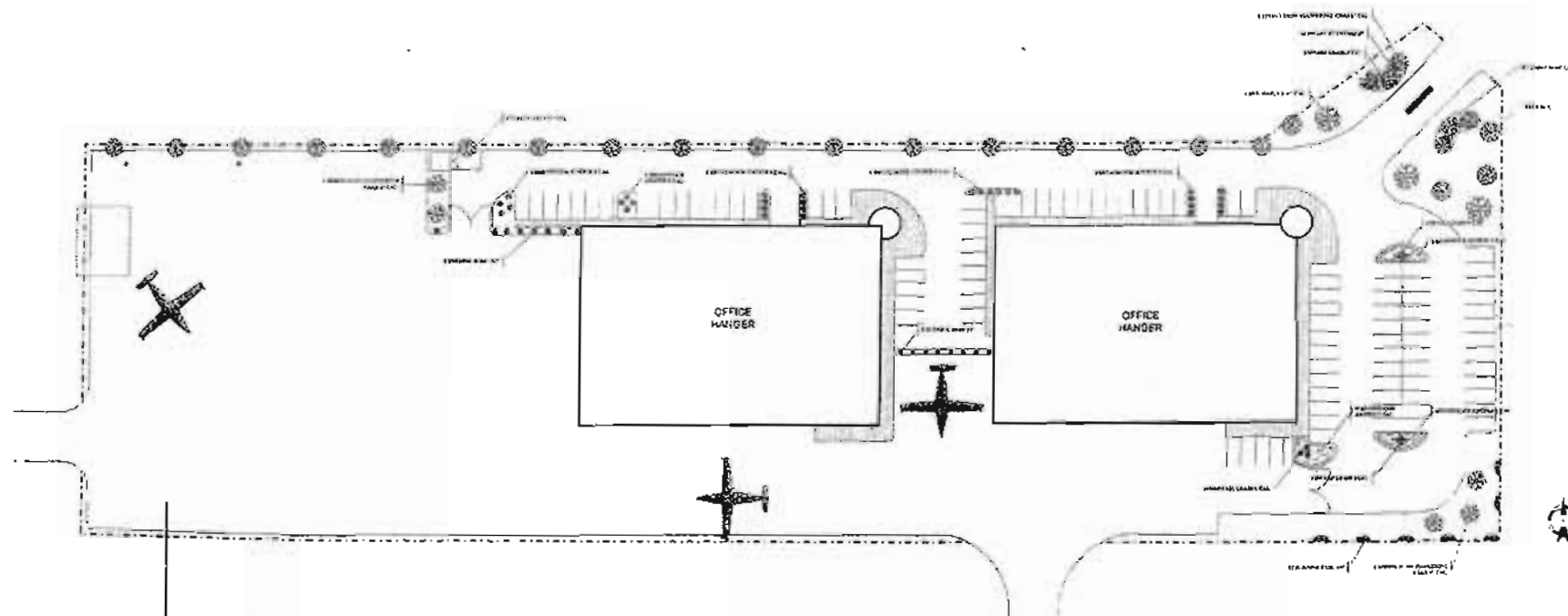
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MATT C. ADAMS - ARCHITECT AIA / NCARB

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STATEMENT C
 PO BOX 230
 CHESTERFIELD, MO 63006-0230
 (636) 537-8222
 (636) 537-2467 FAX



PLANT LIST

NO.	SYMBOLOGY	PLANT NAME	PLANT SIZE	PLANT TYPE	PLANT QUANTITY
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02	(Symbol)	RED WOOD	12" GAL	DECIDUOUS	40
03	(Symbol)	RED WOOD	12" GAL	DECIDUOUS	40
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20	(Symbol)	RED WOOD	12" GAL	DECIDUOUS	40

This plan is the sole property of Baxter Gardens Of Chesterfield
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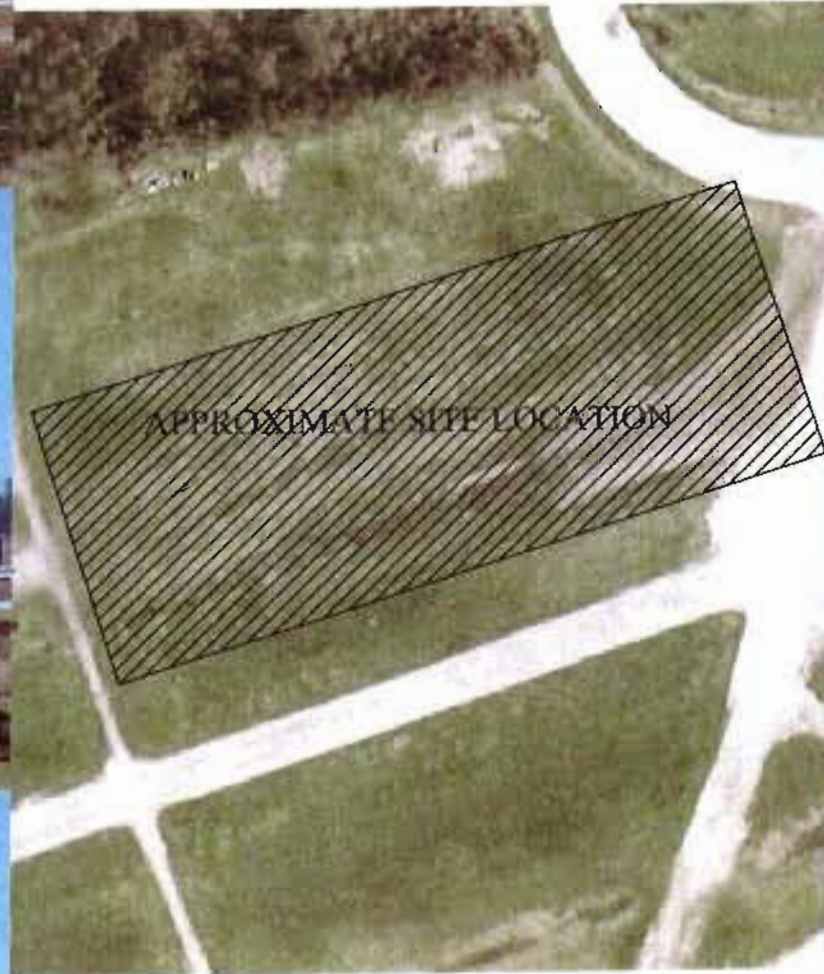
LANDSCAPE DEVELOPMENT PLAN FOR
SPIRIT OF SAINT LOUIS AIRPORT
Offices and Hangers

THE PROFESSIONALS

BAXTER GARDENS

CHESTERFIELD
10000 W. Chesterfield Road
Chesterfield, MO 63005
636-861-1111

DESIGNED BY: Scott Gamblin
SCALE: 1" = 40'-0"
ORIGINAL DATE: July 25, 2007
REVISION DATE:
CURRENT DATE: Thursday, August 20, 2009
GRAPHIC ART: ALR / MHE

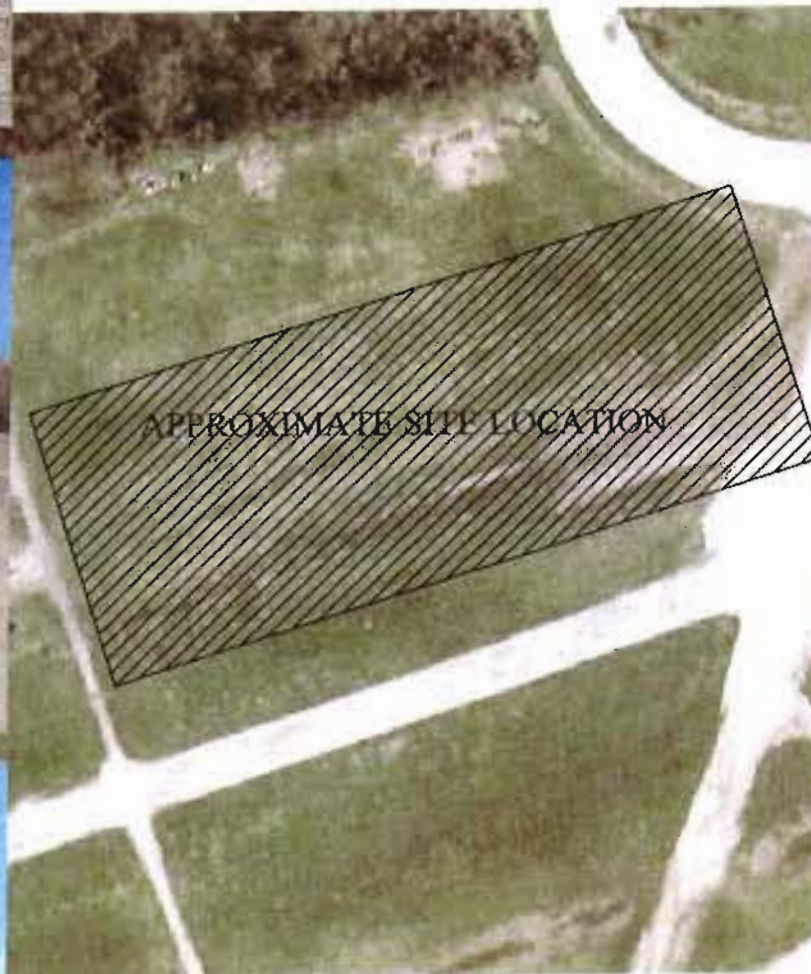


FOREST PARK GROUP - SPIRIT HANGARS

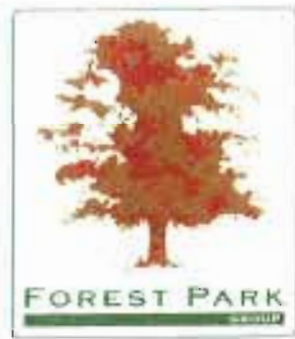
18366 AVIATION MUSEUM PKWY. CHESTERFIELD, MO 63005



SURROUNDING BUILDINGS



FOREST PARK GROUP - SPIRIT HANGARS
18366 AVIATION MUSEUM PKWY. CHESTERFIELD, MO 63005



VIEWS OF ADJACENT USES & SITES

TYPE:

CATALOG #:

McGraw-Edison®

DESCRIPTION

The McGraw-Edison Concourse III is the most versatile, functionally designed, universally adaptable outdoor lighting luminaire available. Through a variety of mounting styles, it offers a family of low profile sharp-cutoff luminaires that make optimum use of today's high output HID sources.

APPLICATION

Enhancing natural landscapes as well as cityscapes, the Concourse III brings outstanding performance and style to walkways, parking lots, roadways, loading docks, building areas, and any security lighting application. U.L. listed and CSA certified for wet locations.

SPECIFICATION FEATURES

- A---Latches**
Two spring-steel quick release latches on housing for toolless entry.
- B---Socket**
Porcelain mogul-base screw shell type lamp socket with spring-loaded center contact.
- C---Housing**
One-piece, die-cast aluminum housing features aesthetically pleasing soft-corner design.
- D---Gasketing**
Closed cell gas-filled high temperature silicone gasketing completely seals optical system from dirt, bugs or other foreign material.
- E---Lens**
Thermal shock- and impact-resistant clear tempered glass.

- F---Optics**
Optional high efficiency segmented or hydroformed reflectors available in a range of distributions. Reflector modules attach to the housing. All reflectors are field rotatable in 90° increments.¹⁾
- G---Mounting**
Universal mounting clamp concealed in housing fits 1 1/2" to 2 3/8" O.D. horizontal tenons without adapters. Provides a +5° vertical leveling adjustment. All mounting option includes arm and round pole adapter with the fixture for single carton shipment.
- H---Ballast**
Easily removable high power factor HID multi-tap ballast is standard.
- J---Hinges**
Integral hinges prevent door rocking and optimize sealing capabilities.

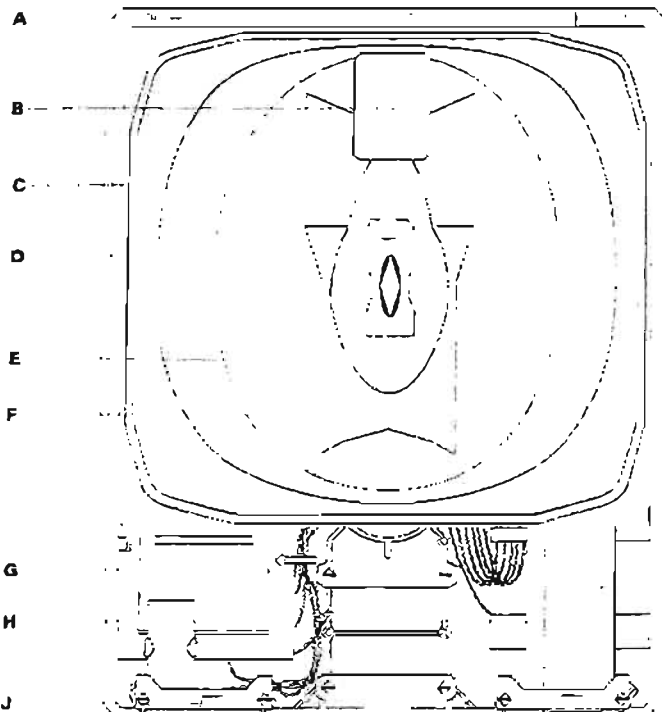


CAL
CONCOURSE III

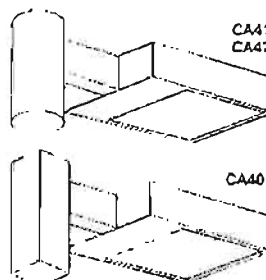
70-400W

High Pressure Sodium
Metal Halide

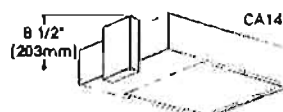
ARCHITECTURAL
AREA LUMINAIRE



DIRECT ARM MOUNTINGS



WALL MOUNT ADAPTER



DARK SKY
COMPLIANT

FC0
Full Cutoff

ENERGY DATA

- HI-Reactance Ballast Input Watts
- 70W HPS HPF (95 Watts)
- 70W MH HPF (94 Watts)
- 100W HPS HPF (130 Watts)
- 100W MH HPF (129 Watts)
- CWA Ballast Input Watts
- 150W MH HPF (210 Watts)
- 175W MH HPF (210 Watts)
- 250W HPS HPF (300 Watts)
- 250W MH HPF (285 Watts)
- 400W HPS HPF (465 Watts)
- 400W MH HPF (455 Watts)

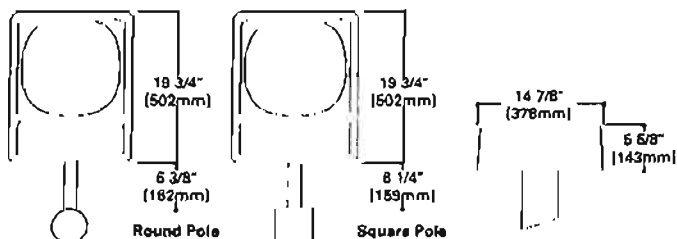
EPA

Effective Projected Area: 0.9

SHIPPING DATA

Approximate Net Weight:
39 lbs. (18 kgs.)

DIMENSIONS

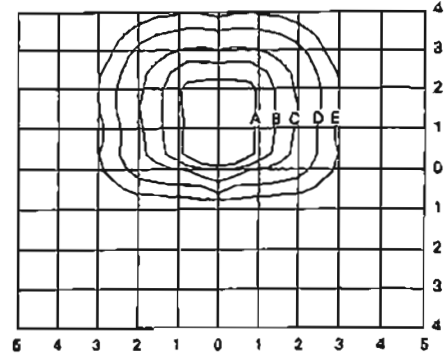
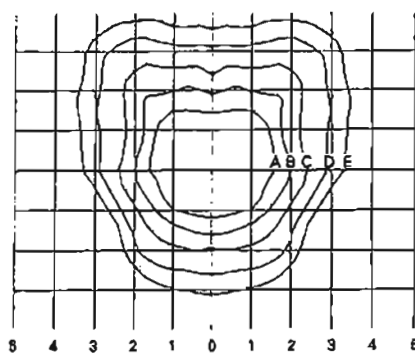
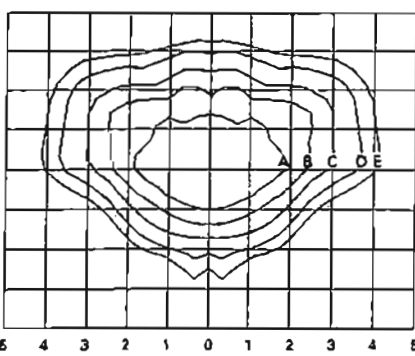


COOPER LIGHTING

ADH080022



PHOTOMETRICS



CAL-400-MH-MT-3S
400-Watt MH Type III Segmented
40,000-Lumen Clear Lamp

CAL-400-MH-MT-4S
400-Watt MH Type IV Segmented
40,000-Lumen Clear Lamp

CAL-400-MH-MT-SL
400-Watt MH Forward Throw Spill Light Eliminator
40,000-Lumen Clear Lamp

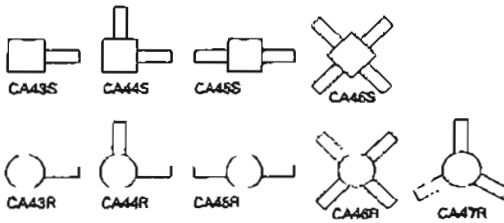
Footcandle Table

Select mounting height and read across for footcandle value of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	3.00	1.50	0.75	0.30	0.15
26'	2.00	1.00	0.50	0.20	0.10
30'	1.38	0.69	0.34	0.13	0.08

Top Mounting for Square and Round Poles (order separately)

Accommodates 2 3/8" - 3" O.D. vertical tenons (arm included). Catalog number includes slipfiner and mounting arms. Square unit height is 6 1/4". Round unit height is 8 3/4".



Catalog Number	E.P.A.	Wt. (lbs.)
CA43S	1.2	39
CA44S	2.3	75
CA45S	2.3	76
CA46S	2.3	148
CA43R	1.2	39
CA44R	2.3	75
CA45R	2.3	76
CA46R	2.3	146
CA47R	2.4	111

ORDERING INFORMATION

SAMPLE NUMBER: CAL-400-MH-MT-SL-BZ

<p>Product Family CAL=Concourse III</p> <p>Lamp Wattage 70=70 100=100W 150=150W 175=175W 250=250W 400=400W¹</p>	<p>Lamp Type MH=Metal Halide HPS=High Pressure Sodium</p> <p>Voltage² 120 208 240 277 480</p> <p>TT=Triple-Tap⁴ MT=Multi-Tap⁴</p>	<p>Optics 2F=Design 20 Formed 2S=Segmented Type II 3F=Design 30 Formed 3S=Segmented Type III 4F=Design 40 Formed 4S=Segmented Type IV¹ 5F=Design 50 Formed 5S=Segmented Type V SL=Forward Throw Spill Light Eliminator</p>	<p>Options (add as suffix)¹ AI=Arm Included¹ F=Single Fuse (120, 277 or 347V) FF=Double Fuse (208, 240 or 480V) Q=Quartz Restrike (limit to 150W maximum, quartz lamp only. Lamp not included.)¹ P=Button Type Photocontrol (Specify Voltage) R=NEMA Twistlock Photocontrol Receptacle V=Vandal Shield HS=House Side Shield¹ L=Lamp Included</p> <p>Colors (add as suffix/must specify color) BK=Black AP=Grey BZ=Bronze WH=White DP=Dark Platinum GM=Graphite Metallic</p>	<p>Accessories (order separately/replace XX with color suffix) CA14-XX=Wall Mount Adapter CA18=House Side Shield—Design 40 MA1065=House Side Shield (Type 2F & 3F only) CA40-XX=Direct Arm Mount for Square Pole (EPA 0.2) CA41-XX=Direct Arm Mount for 3" O.D. Round Pole (EPA 0.2) CA42-XX=Direct Arm Mount for 3 1/2"-4" O.D. Round Pole (EPA 0.2) CA43S-XX=Single Arm Tenon Adapter for 2 3/8"-3" O.D. Tenon Square Pole CA43R-XX=Single Arm Tenon Adapter for 2 3/8"-3" O.D. Tenon Round Pole CA44S-XX=2 @ 90° Arm Tenon Adapter for 2 3/8"-3" O.D. Tenon Square Pole CA44R-XX=2 @ 90° Arm Tenon Adapter for 2 3/8"-3" O.D. Tenon Round Pole CA45S-XX=2 @ 180° Arm Tenon Adapter for 2 3/8"-3" O.D. Tenon Square Pole CA45R-XX=2 @ 180° Arm Tenon Adapter for 2 3/8"-3" O.D. Tenon Round Pole CA46S-XX=4 @ 90° Arm Tenon Adapter for 2 3/8"-3" O.D. Tenon Square Pole CA46R-XX=4 @ 90° Arm Tenon Adapter for 2 3/8"-3" O.D. Tenon Round Pole CA47S-XX=3 @ 180° Arm Tenon Adapter for 2 3/8"-3" O.D. Tenon Square Pole CA47R-XX=3 @ 180° Arm Tenon Adapter for 2 3/8"-3" O.D. Tenon Round Pole CA9005-XX=Adjustable Fitter, FA55B2 Required (fits 2 3/8" O.D. Vertical Tenon) OA/RA101B=Photocontrol-Multi-Tap OA/RA1027=Photocontrol-480V OA1046=120V Button Photocontrol for Field Installation OA1047=208/240V Button Photocontrol for Field Installation OA1048=277V Button Photocontrol for Field Installation</p>
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NOTES: 1. Bracket arms are not included with standard unit. One bracket arm must be ordered for each standard unit (see Accessories). 2. 400W Metal Halide fixtures use E28 lamps only. 3. Products also available in non-US voltages and 60Hz for international markets. Consult factory for availability and ordering information. 4. Multi-Tap ballast is 120/208/240/277V wired 277V. Triple-Tap ballast is 120/277/347V wired 347V. 5. Type 4S optic not suitable with 400W HPS systems. 6. Must be listed in the order shown and separated by a dash. 7. CA42 included - Arm and 3 1/2"-4" round pole adapter provided in box. 8. Not available with quartz on "SL" optic. 9. Available for 2S, 3S, 4S, 2F, 3F, 4F distributions only.

STOCK SAMPLE NUMBER (Lamp Included):

SAMPLE NUMBER: CAL-400-MH-ST-2/3F-AI-BZ

CAL		MH			AI	BZ
Product Family CAL=Concourse III	Lamp Wattage 250=250W 400=400W	Lamp Type MH=Metal Halide	Voltage ² MT=Multi-Tap Wired 277V ST=5-Tap Wired 277V	Optics 2/3F=Formed Type II/III 4F=Formed Type IV	Mounting Method AI=Arm Included ¹	Color BZ=Bronze

NOTES (stock): 1. Stock product comes standard with lamp. Other options not available with stock products. Refer to standard ordering information. 2. MT only available with 250W. ST only available with 400W. 3. CA42 included - Arm and 3 1/2"-4" round pole adapter.

NOTE: Specifications and dimensions subject to change without notice.

Visit our web site at www.cooperlighting.com



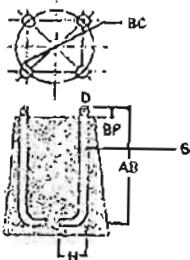
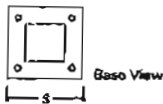
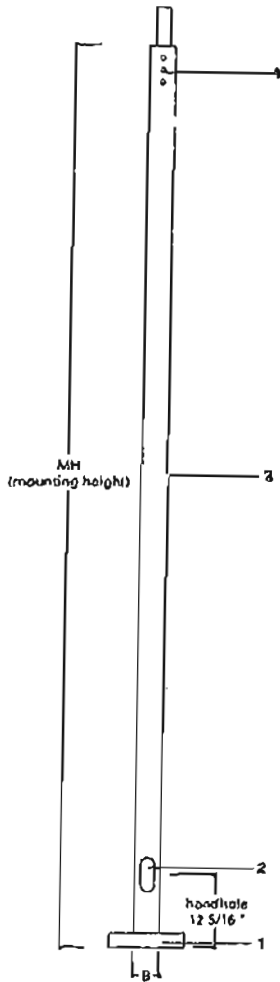
Customer First Center 1121 Highway 74 South Peachtree City, GA 30269 770.488.4800 FAX 770.488.4801 ADH060022

TYPE:

LOG #:

COOPER LIGHTING®

DETAILS



SPECIFICATION FEATURES

- 1 --- ASTM Grade steel base plate with ASTM A366 base cover.
- 2 --- Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole.
- 3 --- ASTM A500 grade "B" steel shaft. Shot blasted and painted with polyester powder coat.
- 4 --- Drilled or Tenon (specify).
- 5 --- 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.

FOUR BOLT ANCHORAGE (see ordering information)

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

FINISH COLORS

- F=Dark Bronze
- G=Galvanized
- V=Gray
- W=White
- Y=Black

SQUARE STRAIGHT STEEL

10' - 39'

Mounting Height

SQUARE STRAIGHT STEEL



ORDERING INFORMATION

The following information illustrates the correct way to enter an order for SSSA20SF1XG. The ordering designation is detailed as follows.

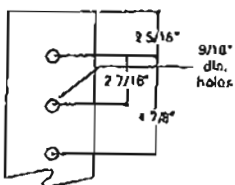
Square	Straight	Steel	Shaft ¹ Size	Wall Thickness	Mounting Height (ft.)	Base Type	Finish	Fixture Mounting & Type	No. & Location of Arms	Arm Lengths	Accessories (Ground Lug)
S	S	S	5	A	20	S	F	M	1	X	G

Mfg. Height MH	Catalog ¹ Number	Wall Thickness	Base Square Size (In.)	Bolt Circle Dia. (In.)	Bolt Proj. (In.)	Shaft Size (In.)	Anchor Bolt Dia. & Length (In.)		Net. Wt. (Lbs.)	EPA (Sq. Ft.) ⁴ At Pole Top				EPA (Sq. Ft.) ⁴ 2' Above Pole Top				Max. Fixture Load—Include Bracket (Lbs.)
							BC	BP		B	AB	70	80	90	100	70	80	
10	SSS4A10SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	86	39.8	29.9	23.7	18.4	33.0	24.8	19.3	15.3	150	
15	SSS4A15SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	133	19.8	14.4	10.8	8.2	17.2	12.7	9.5	7.3	150	
20	SSS4A20SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	152	12.9	9.1	6.5	4.6	11.7	8.2	5.9	4.2	200	
25	SSS4A25SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	208	8.7	5.8	3.8	2.1	8.0	5.2	3.3	2.0	200	
25	SSS6A20SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	202	21.8	15.7	11.6	8.5	19.9	14.3	10.5	7.7	200	
25	SSS5A25SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	248	15.5	10.5	7.2	4.8	14.3	9.8	6.8	4.4	200	
30	SSS6A30SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	293	8.2	4.8	2.1	--	7.7	4.3	2.0	--	300	
35	SSS8A35SF	.188	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	480	11.8	7.1	3.8	1.5	11.1	6.8	3.6	1.4	300	
25	SSS8A25SF	.120	12 1/2	12.5	5	6	1 x 36 x 4	295	24.1	16.8	12.0	8.5	22.2	15.6	11.1	7.8	200	
30	SSS8A30SF	.120	12 1/2	12.5	5	6	1 x 36 x 4	347	14.0	8.7	5.0	2.6	13.1	8.2	4.7	2.3	300	
30	SSS8M30SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	505	26.4	18.1	12.5	8.4	24.7	16.9	11.8	7.9	300	
35	SSS8M35SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	584	19.7	12.7	7.9	4.4	18.6	12.0	7.5	4.2	300	
35	SSS6X35SF	.250	12 1/2	12.5	5	6	1 x 36 x 4	696	28.9	18.7	13.4	8.9	27.7	18.6	12.7	8.4	300	
39	SSS8M39SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	647	15.4	9.1	4.8	1.8	14.8	8.7	4.6	1.7	300	
39	SSS6X39SF	.250	12 1/2	12.5	5	6	1 x 36 x 4	822	23.5	15.4	8.8	5.7	22.4	14.8	9.3	5.4	300	

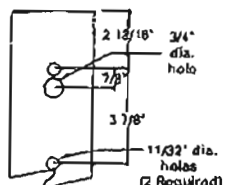
NOTES: ¹ Catalog number includes pole with anchor bolts with double nuts (BEFORE INSTALLING ANCHOR BOLTS MAKE SURE PROPER ANCHOR BOLT TEMPLATE IS OBTAINED FROM COOPER LIGHTING). ² Tenon size or machining for rectangular arms must be specified. Hand hole is located 180° from single arm. ³ Shaft size, base plate, anchor bolts and projections may vary slightly—all dimensions nominal. ⁴ EPA's based on shaft properties with wind normal to pole. EPA's calculated using base wind velocity as indicated plus 30% gust factor.

DRILLING PATTERN

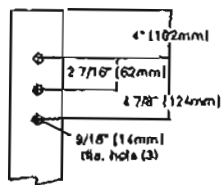
Type "M"



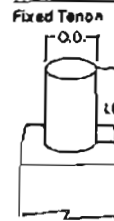
Type "E"



Type "Z"



MOUNTING OPTIONS (add as suffix)



Designation Number	O.D. (In.)	Length (In.)
1	2 3/8	3 1/2
2	2 3/8	4
3	3 1/2	5
9	3	4

Type "M" Drill Pattern = Hammer, Landau, Galleria, and Vision Area
 Type "E" Drill Pattern = Concourse III
 Type "Z" Drill Pattern = Credonze and Cirrus

MACHINING FOR RECTANGULAR ARMS (add as suffix)

Designation Letter & Number	Designation (UCS Only) Letter & Number	Designation (Cirrus / Credonze Only) Letter & Number	Quantity & Location
M1	E1	Z1	Single
M2	E2	Z2	2 @ 180°
M3	E3	Z3	3 @ 120°
M4	E4	Z4	4 @ 90°
M5	E5	Z5	2 @ 90°
M8	E6	Z6	3 @ 80°
M7	E7	Z7	2 @ 120°

ACCESSORIES

- A=1/2" tapped hub¹
- B=3/4" tapped hub¹
- C=Convenience outlet⁴
- G=Grounding lug (max. wire #8 AWG)
- H=Additional hand holes and cover—12" below pole top—90° from hand hole.

NOTES: ¹ Location is 3" above base—90° from hand hole.
² Outlet is located 4" above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only.

COOPER LIGHTING - LUMARK®



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.

Catalog #		Type
Project		
Comments		Date
Prepared by		

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 ½" 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. Wal-

Pak 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, 260, 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°F.

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

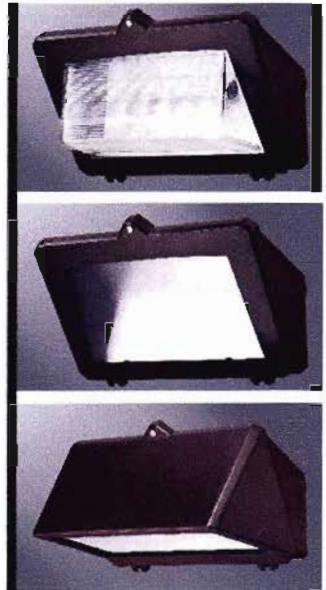
metal halide [MH / MP] or high pressure sodium [HP] lamps. T6 ceramic metal halide [CM] and 4-pin compact fluorescent [CF] lamp models offer high efficiency energy saving illumination.

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-stage TGIC 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.



WP WAL-PAK

2400 - 4000 Lumen LED

39 - 400W

High Pressure Sodium

Pulse Start Metal Halide

Metal Halide

Ceramic Metal Halide

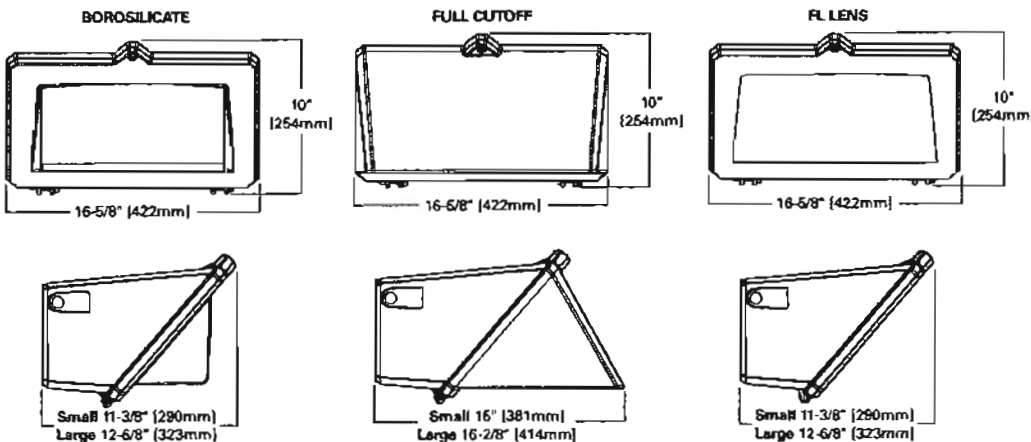
32 - 140W

Compact Fluorescent



WALL MOUNT LUMINAIRE

DIMENSIONS



TECHNICAL DATA

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

ENERGY DATA

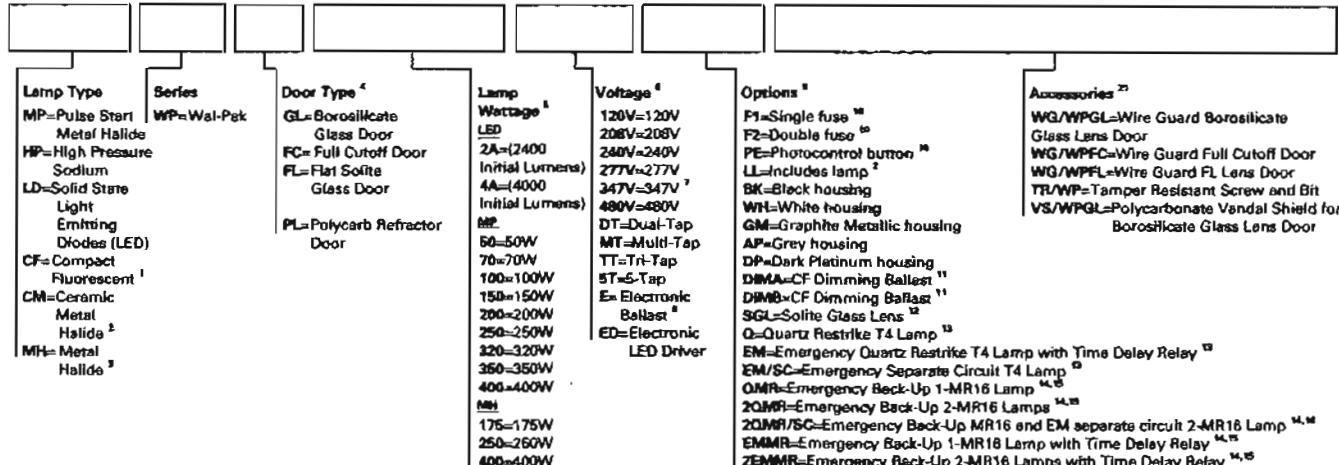
Reactor Ballast Input Watts
60W HPS NPF (68 Watts)
70W HPS NPF (82 Watts)
100W HPS NPF (118 Watts)
150W HPS NPF (175 Watts)
High Reactance Ballast Input Watts
60W MP HPF (69 Watts)
70W MP HPF (84 Watts)
100W MP HPF (129 Watts)
150W MP HPF (185 Watts)
CWA Ballast Input Watts
200W HPS HPF (250 Watts)
200W MP HPF (227 Watts) @
250W MP HPF (283 Watts) @
320W MP HPF (365 Watts) @
350W MP HPF (400 Watts) @
400W HPS HPF (466 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

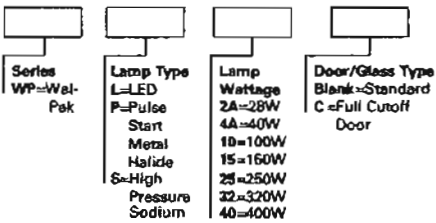
ORDERING INFORMATION

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



STOCK SAMPLE NUMBER - LAMP INCLUDED

SAMPLE NUMBER: WPP40C



NOTES: Options not available with stock products. Refer to standard order information to add options. MT is standard. Lamp Type: MP not available in 100W. HPS not available in 320W. Borosilicate glass door is standard. 2A and 4A models available in LED only. LED models are 120-277V.

BUG RATING	B	U	G	Flat Lens Door (FL)	B	U	G
Borosilicate Glass Door (GL)							
LDWP-GL-2A-ED	0	3	2	LDWP-FL-2A-ED	0	2	1
LDWP-GL-4A-ED	1	3	2	LDWP-FL-4A-ED	0	3	1
Polycarbonate Lens (PL)				Full Cutoff Door (FC)			
LDWP-PL-2A-ED	0	3	2	LDWP-FC-2A-ED	0	1	1
LDWP-PL-4A-ED	1	3	2	LDWP-FC-4A-ED	0	1	1

For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit www.lensa.org/POF/Errata/TM-15-07BugRatingAddendum.pdf

- 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 EM140-2L, CF-EM, CF-EM-2L. CF not available in 347V.
 2 All CM models offered with T8 envelope G12 lamp base. T8 Lamp included with CM models. Order LL with CM models. Ceramic Metal Halide (CMH) is available with (MP) pulse start metal halide or E - Electronic Ballast.
 400W MP must be ordered with LL option to be Title 20 Compliant.
 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. ST 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 thru-branch wiring for units 200W and higher. Thru-branch wiring is rated for 40°C for LD and 175W and below. Higher wattage thru-branch wiring is rated for use in 25°C ambient operating environments.
 7 347V not available with thru-branch wiring. For 247 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 EM140, EM140/2L, 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 DIMMA dimming ballast, specify number of lamps, available for 1 or 2-25W 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 auxiliary 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. EM140, EM140/2L used for CF lamps. Specify 120 or 277V. EM140 supports 1-70W CF max, EM140/2L 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.

VOLTAGE CHART	
DT=Dual-Tap	120/277 (wired 277V)
MT=Multi-Tap	120/208/240/277 (wired 277V)
TT=Tri-Tap	120/277/347 (wired 347V)
ST=5 Tap	120/208/240/277/480 (wired 480V)
E=Electronic Ballast	120-277V (Universal) (50/60 HZ)
ED=Electronic LED Driver	120-277V (Universal) (50/60 HZ)

LAMP TYPE	WATTAGE
Pulse Start Metal Halide	60, 70, 100, 150, 200, 250, 320, 350, 400W
Metal Halide	175, 250, 400W
High Pressure Sodium	50, 70, 100, 150, 250, 400W
T8 Ceramic Metal Halide	39, 70, 100, 150W
Compact Fluorescent	(1) 32, (1) 42, (1) 57, (1) 70, (2) 32, (2) 42, (2) 57, (2) 70
LED	2A (2400 Initial Lumens), 4A (4000 Initial Lumens)



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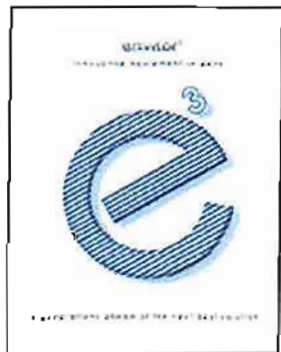


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Rooftop Screening - Photo Gallery

These photos showcase the limitless combination of shapes and configurations to help reduce cost, add to the aesthetics of a building, or both. **Let us design one for you!**

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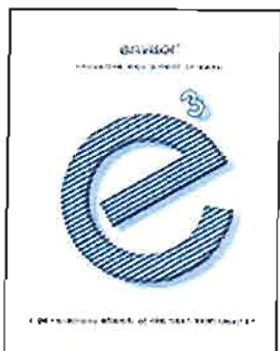
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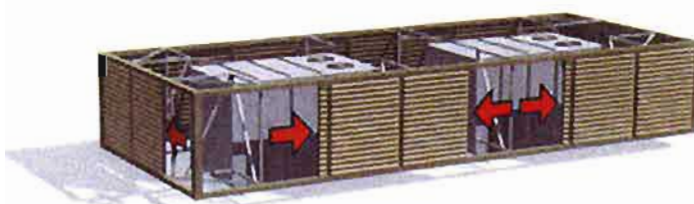
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Download Our Brochure
(PDF - PC/MAC)



Envisor roof screens are the perfect alternative to parapet walls and they satisfy even the strictest screening code requirements. All styles feature our patented attachment method, which secure our roof screens directly to the equipment with no rooftop penetration. Screen heights are available to screen virtually anything you desire.



Our panels are designed to slide side-to-side in either direction for easy access to the equipment for servicing and routine maintenance.



VERTICAL



CANTED



VERTICAL W/ TOP TRIM



STACKED



CUSTOM



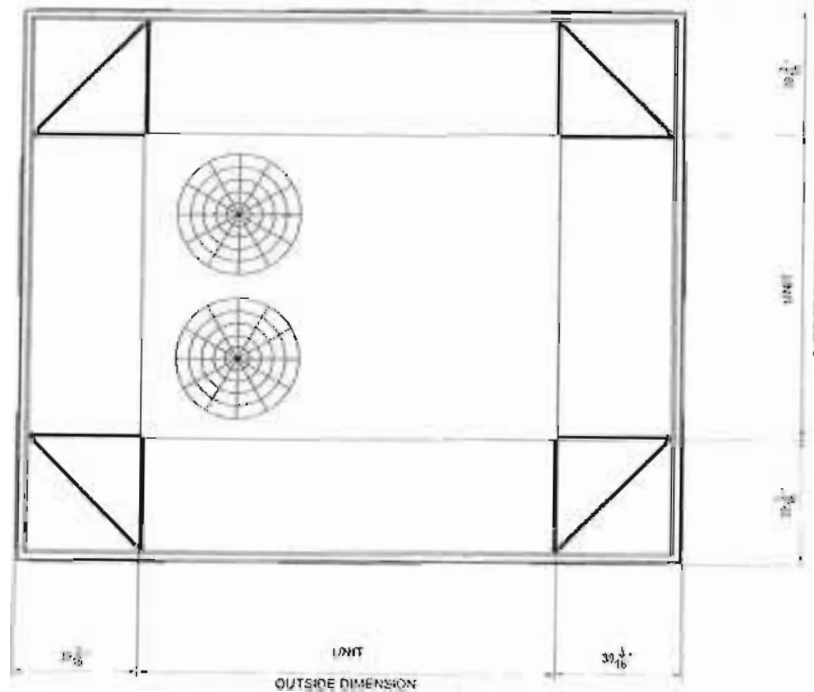
Envisor equipment screens can be manufactured in a limitless combination of shapes and configurations, to help reduce cost, add to the aesthetics of a building, or both. Let CityScapes design one for you! Just provide us with the equipment manufacturer and model numbers, and any other special requirements.

[Click here to request a quote](#)

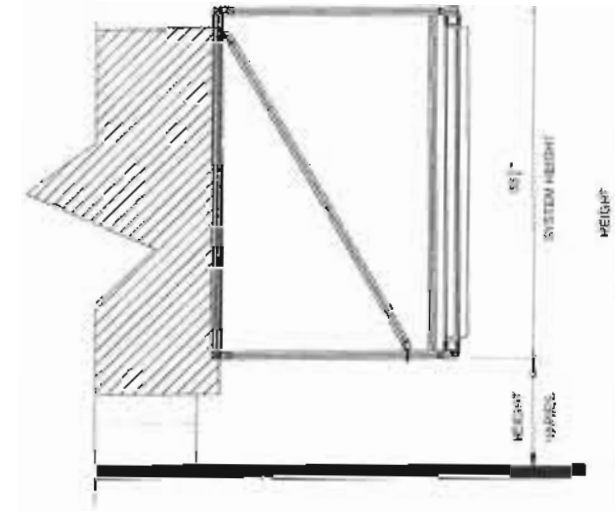
Designer Colors



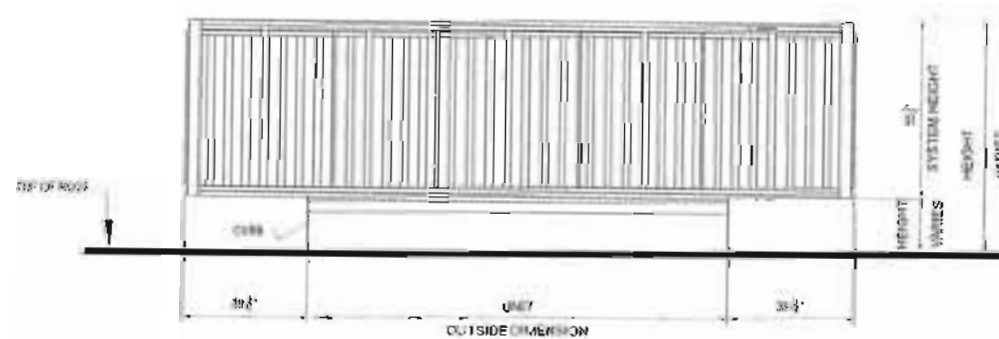
52" VERTICAL STYLE ENVISOR
FOOTPRINT



52" VERTICAL STYLE ENVISOR
SECTION



52" VERTICAL STYLE ENVISOR
ELEVATION



NOTE: The Screen System shown corresponds to a typical construction of the Envisor 52 Vertical Style using Flat Rib Panels. This drawing is intended to illustrate general dimensions of the Envisor System when installed on an average Roof Top Unit. Dimensions and specifications of the system can vary depending on the RTU's location to each other and performance characteristics.


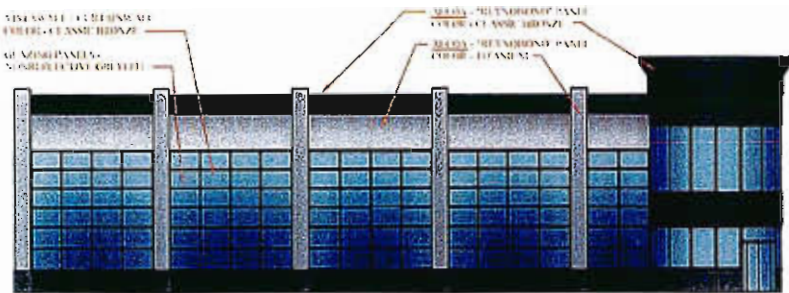
SALES PERSON	DESIGNER	APPRV.BY/DATE	PROJECT	
DATE 4/18/03	LAST REVISION 9/13/04		Envisor® 52 Vertical Style General Specifications	
DRAWING No. 100393S2.FH9 (52VERT091304.PDF)		SCALE none	CLIENT	4200 Lyman Court, Hilliard, Ohio 43026 Ph. (877) SCREENS Fax (800) 726-4817 www.cityscapesinc.com
THIS DRAWING IS SUBMITTED BY CITYSCAPES INTERNATIONAL, INC. FOR YOUR PERSONAL USE AS AN AID IN PROJECT PLANNING. IT IS NOT TO BE REPRODUCED, EXHIBITED, OR FABRICATED IN ANY FASHION WITHOUT PERMISSION FROM AN AUTHORIZED OFFICER OF THE COMPANY. ENVISOR IS A REGISTERED TRADEMARK OF CITYSCAPES INTERNATIONAL, INC.				

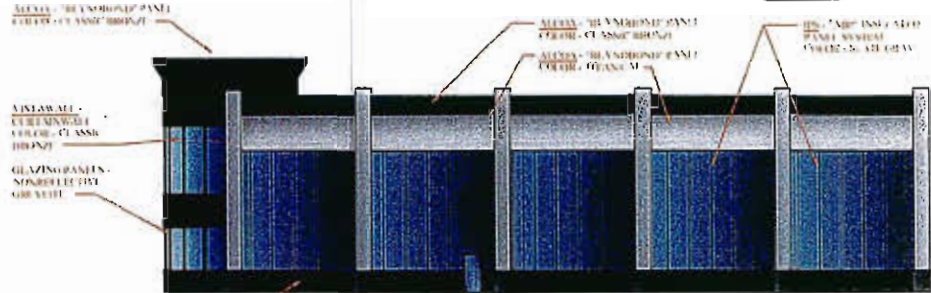
EXHIBIT
tabbles 2006
Approved
Rendering



EXHIBIT
tabbies
 2006
 Approved
 Elevations

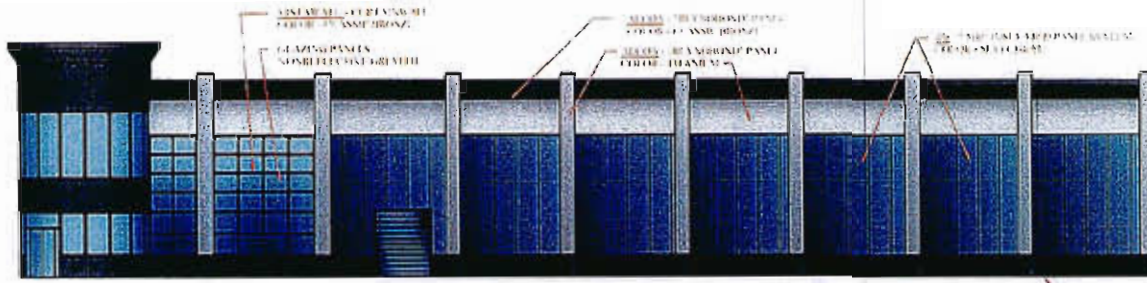


1 BUILDING NO. 1 & NO. 2 - EAST ELEVATION
 SCALE: 3/4" = 1'-0"

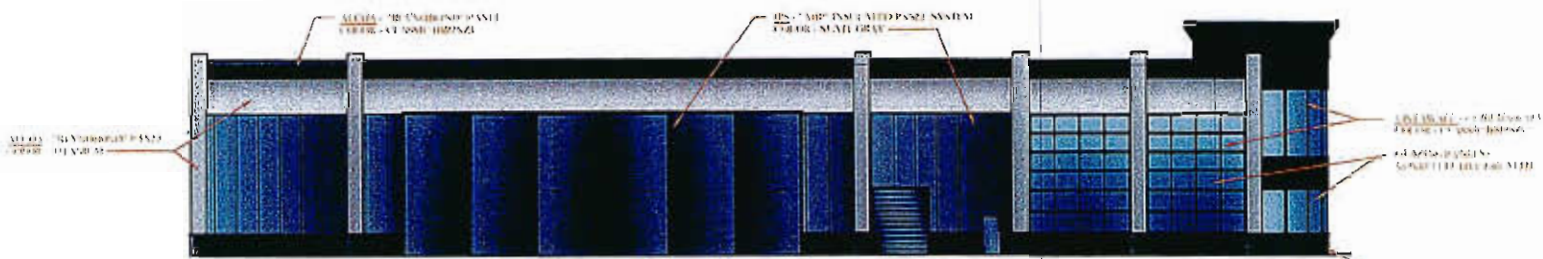


2 BUILDING NO. 1 & NO. 2 - WEST ELEVATION
 SCALE: 3/4" = 1'-0"

- 1.01.00 - ROOF
- 1.02.00 - 1.02.01 - 1.02.02 - 1.02.03 - 1.02.04 - 1.02.05 - 1.02.06 - 1.02.07 - 1.02.08 - 1.02.09 - 1.02.10 - 1.02.11 - 1.02.12 - 1.02.13 - 1.02.14 - 1.02.15 - 1.02.16 - 1.02.17 - 1.02.18 - 1.02.19 - 1.02.20 - 1.02.21 - 1.02.22 - 1.02.23 - 1.02.24 - 1.02.25 - 1.02.26 - 1.02.27 - 1.02.28 - 1.02.29 - 1.02.30 - 1.02.31 - 1.02.32 - 1.02.33 - 1.02.34 - 1.02.35 - 1.02.36 - 1.02.37 - 1.02.38 - 1.02.39 - 1.02.40 - 1.02.41 - 1.02.42 - 1.02.43 - 1.02.44 - 1.02.45 - 1.02.46 - 1.02.47 - 1.02.48 - 1.02.49 - 1.02.50 - 1.02.51 - 1.02.52 - 1.02.53 - 1.02.54 - 1.02.55 - 1.02.56 - 1.02.57 - 1.02.58 - 1.02.59 - 1.02.60 - 1.02.61 - 1.02.62 - 1.02.63 - 1.02.64 - 1.02.65 - 1.02.66 - 1.02.67 - 1.02.68 - 1.02.69 - 1.02.70 - 1.02.71 - 1.02.72 - 1.02.73 - 1.02.74 - 1.02.75 - 1.02.76 - 1.02.77 - 1.02.78 - 1.02.79 - 1.02.80 - 1.02.81 - 1.02.82 - 1.02.83 - 1.02.84 - 1.02.85 - 1.02.86 - 1.02.87 - 1.02.88 - 1.02.89 - 1.02.90 - 1.02.91 - 1.02.92 - 1.02.93 - 1.02.94 - 1.02.95 - 1.02.96 - 1.02.97 - 1.02.98 - 1.02.99 - 1.02.100



3 BUILDING NO. 1 & NO. 2 - NORTH ELEVATION
 SCALE: 3/4" = 1'-0"



4 BUILDING NO. 1 & NO. 2 - SOUTH ELEVATION
 SCALE: 3/4" = 1'-0"

FOREST PARK GROUP - SPIRIT HANGARS
 18366 AVIATION MUSEUM PKWY. CHESTERFIELD, MO 63005



PROPOSED EXTERIOR COLOR ELEVATIONS

EXHIBIT

tabbles
Entrance



01/05/2011 21:41

EXHIBIT

tabbles

North

01/05/2011 21:34

EXHIBIT

tabbles

South

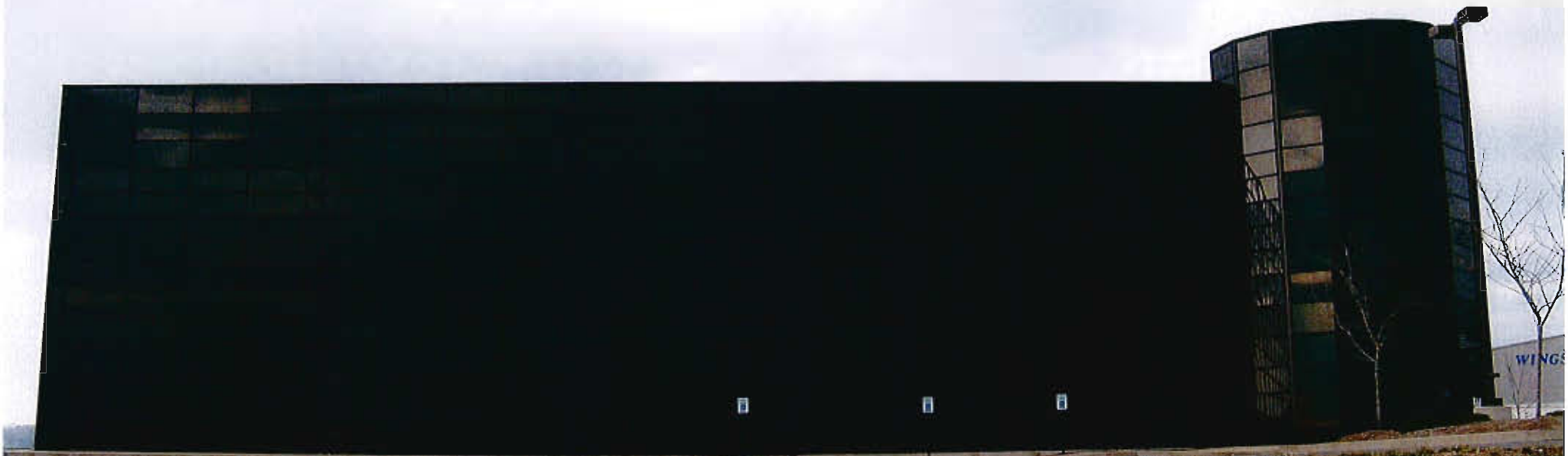


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EXHIBIT

tabbles

East

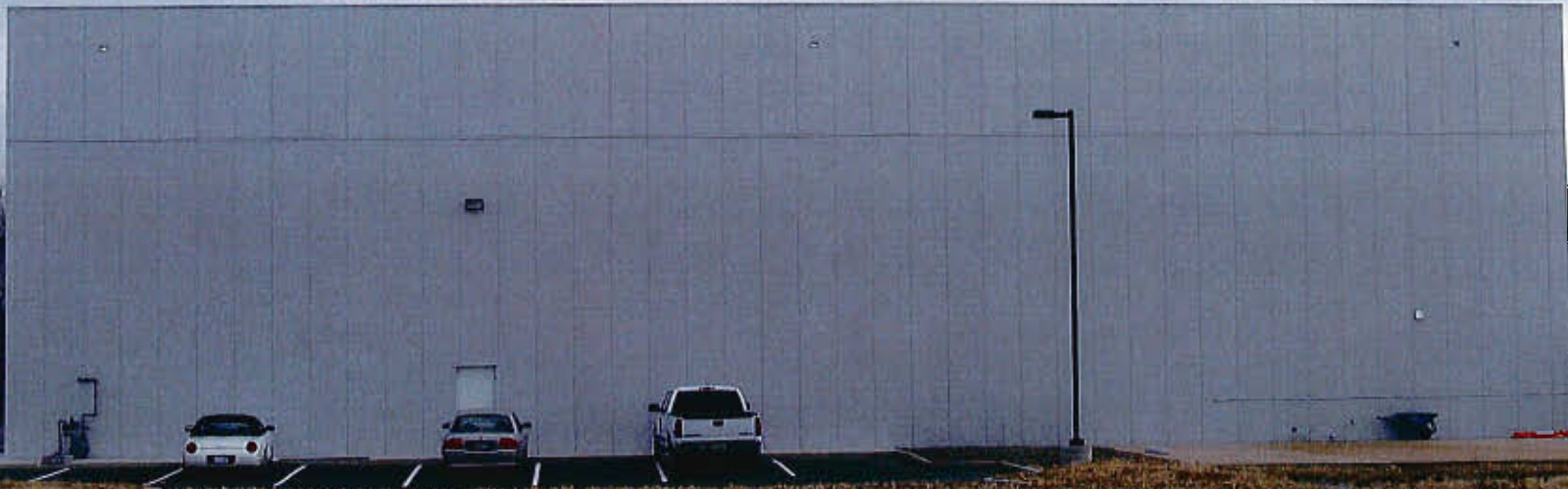


01/05/2011 21:32

EXHIBIT

tabbles

West



01/05/2011 21:36