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Planning Commission Staff Report

Project Type:	Site Development Plan
Meeting Date:	March 24, 2014
From:	Jessica Henry Project Planner
Location:	18336 Edison Avenue
Applicant:	CEDC, on behalf of Firestream Worldwide
Description:	Spirit of St. Louis Airpark, Firestream Worldwide: A Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations and an Architect's Statement of Design for a 1.12 acre tract of land zoned "M3" Planned Industrial District located on the south side of Edison Avenue, west of Spirit of St. Louis Boulevard.

PROPOSAL SUMMARY

CEDC, on behalf of Firestream Worldwide, has submitted a Site Development Plan, Lighting Plan, Architectural Elevations and an Architect's Statement of Design for a proposed aircraft storage and corporate office hangar building.

The request is for a 12,000 square foot aircraft storage and corporate office hangar building located within the Spirit of St. Louis Airpark development. The subject site is zoned "M3" Planned Industrial District and is governed under the terms and conditions of City of Chesterfield Ordinance 1430. The exterior building materials will be comprised of painted metal panel siding, EIFS, stone veneer, brick veneer, and tinted glass windows. The proposal includes a flat painted metal panel roof.

HISTORY OF SUBJECT SITE

St. Louis County approved a rezoning from an "NU" Non-Urban District to an "M-3" Planned Industrial District for Spirit of St. Louis Airport via Ordinance 2212 prior to the incorporation of the City of Chesterfield. The ordinance was subsequently amended by St. Louis County Ordinances 9642, 11,768, 13,838, and 13,935 and City of Chesterfield Ordinances 656, 870, 1156, and 1312.

The ordinance amendments were to allow for additional uses, amend setbacks, and amend the boundaries of the "M3" Planned Industrial District. The current ordinance governing the site is City of Chesterfield Ordinance 1430.

The subject site has never been developed.

Land Use and Zoning of Surrounding Properties

Direction	Land Use	Zoning
North	Airport / Hangar	"M-3" Planned Industrial District
South	Airport / Runway	"M-3" Planned Industrial District
East	Airport / Office / Hangar	"M-3" Planned Industrial District
West	Airport / Office / Hangar	"M-3" Planned Industrial District



STAFF ANALYSIS

<u>Zoning</u>

The subject site is currently zoned "M-3" Planned Industrial District under the terms and conditions of City of Chesterfield Ordinance Number 1430. The submittal was reviewed against the requirements of Ordinance Number 1430, the Lighting Ordinance, the Tree Preservation and Landscape Requirements, the Architectural Review Requirements and all other applicable sections of the City Code.

Traffic Access and Circulation

The proposed entrance to the site is off of Bell Avenue on the northern portion of the site. The south elevation features an aircraft hangar door system and the paved parking area will connect to an existing taxiway located off of the property to the east. The circulation, including access to this taxiway, is governed by the Spirit of St. Louis Airport. Access to the taxiway will be restricted to the public.

Similar to vehicular traffic, the pedestrian traffic near the proposed building is strictly limited to the northern portion of the site fronting Edison Avenue due to the proximity of the building to the proposed taxiway.

Parking

The main parking area is located on the northern portion of the site and is accessed via the proposed entrance off of Bell Avenue. Private parking for employees and pilots is provided at the southern portion of the site. This private parking is accessed through a gate with keypad at the end of Bell Avenue.

Landscaping

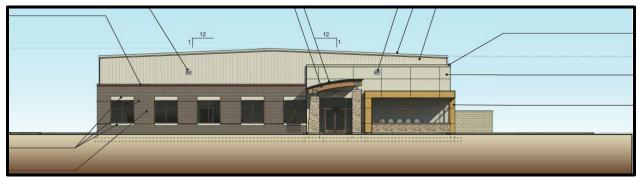
Trees will be planted along Edison Avenue and throughout the site with the exception of a portion of the Bell Avenue frontage which falls within an Ameren utility easement. Landscape beds containing shrubs and grasses are proposed in this area. Landscape beds are also proposed along the portions of the building visible from Edison and Bell Avenues.

Lighting

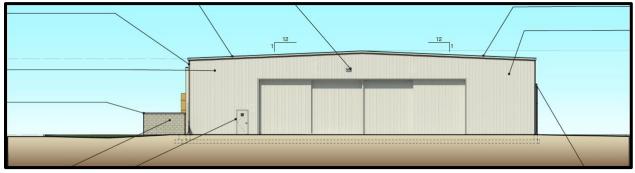
The plan proposes one pole mounted light fixture and two different light fixtures attached to the proposed building. The pole mounted and one of the wall mounted light fixtures, noted as W3 and S3-HS on the Lighting Plan are a flat lens metal halide fixtures. These fixtures will be mounted in a fixed position and are fully-shielded and full cut-off. The third fixture, shown as W4 on the Lighting Plan, is a full cut-off, flat lens architectural wallpack design. Two of these fixtures are proposed on the north façade of the building.

Architectural Elevations

The building will be primarily comprised of painted metal siding—more specifically pre-engineered steel—which is typical for this building type. The design also includes expansive windows on the front elevation and the portions of the side elevations where the corporate office is to be located. The proposed materials and earth tone colors are chosen to match the existing buildings within the airport complex.



North Building Elevation



South Building Elevation

In addition, the proposal includes ground-mounted equipment that will be screened from the public view by landscaping. Rooftop equipment is not being proposed for this facility.

The project was reviewed by the Architectural Review Board (ARB) on February 13th, 2014. At that meeting, a motion to forward the project to the Planning Commission as presented was approved by the ARB by a vote of 5-0.

DEPARTMENT INPUT

Staff has reviewed the Site Development Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design and has found the proposal to be in compliance with the site specific ordinance and all City Code requirements. Staff recommends approval of the proposed project of Spirit of St. Louis AirparkFirestream Worldwide.

MOTION

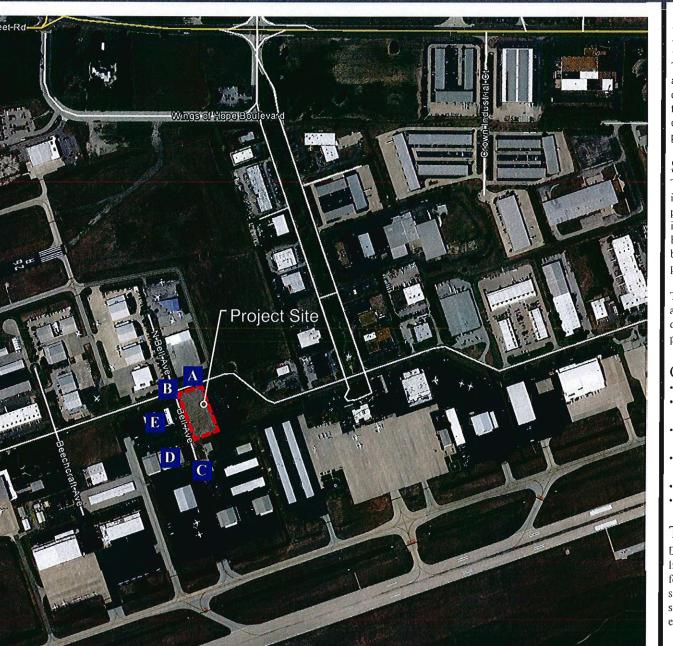
The following options are provided to the Planning Commission for consideration relative to this application:

- 1) "I move to approve (or deny) the Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for the Spirit of St. Louis Airpark, Firestream Worldwide.
- "I move to approve the Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for the Spirit of St. Louis Airpark, Firestream Worldwide, with the following conditions..." (Conditions may be added, eliminated, altered or modified)
- CC: Aimee Nassif, Planning and Development Services Director
- Attachments: Site Development Plan Landscape Plan Lighting Plan Architect's Statement of Design Architectural Elevations









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Architectural Narrative

Introduction

The Firestream Worldwide project is located at 18336 Edison Avenue A. Scale: at the Spirit of St. Louis Airport in Chesterfield, Missouri. The site is comprised of approximately ± 1.12 acres with an approximately twentyfive foot tall, 11,990 s.f. structure. This facility will house both the corporate office and an aircraft storage hangar for both corporate and private use.

Site Relationship

The proposed project is situated deep within the airport confines at the The scale of this project is appropriate and consistent with the adjacent building and intersection of Bell and Edison Avenue, and is not highly visible from surrounding area. The orientation and most articulate fencstration of the public public roadways. The scale and fenestration of the proposed structure portion of the building addresses the primary intersection. Similar building materials is compatible with neighboring use groups and surrounding buildings. of adjacent structures are incorporated and utilized to maintain a contextual balance Pedestrian movement is minimal due to security concerns and type of with the neighboring architecture. business conducted on the premises. Furthermore, parking for business patrons is provided adjacent to the public access side of the building. C. Colors:

The building is oriented with the most articulate facades and public accessible portions of the building addressing the two primary streets. As designed, this project does not impair or interfere with any surrounding properties or developments.

Circulation System and Access

- Bicycle circulation is not addressed.
- Public Vehicular circulation to the front, private parking for pilots in the rear of the building.
- Landscaped buffer is provided between building and parking in order to provide landscaped foreground for building.
- Pedestrian orientation is addressed by providing concrete walkway and a building canopy defining the entry access point.
- No outdoor dining or scating areas provided due to aircraft noise.
- No on-site connections to public transportation provided on site.

Topography

Due to FAA requirements pertaining to minimizing obstructions of sight lines and the flat nature of this site, we have not utilized the topography for screening or buffering purposes. However, we have implemented smaller scale landscaping to assist in some screening and buffering Specific Requirements for the Chesterfield Valley: scenarios around the dumpster enclosure and ground mounted mechanical equipment.

F. Lighting: Facades: Storage:

E. Signage:

B. Design:

Utilities: Parking:



Aerial Key Map for Contextual Images

A Corporate Office and Aircraft Storage Hangar for: **Firestream Worldwide** Chesterfield Missour

Imagery Date: 8/6/2012 38°39'52.06" N



General Requirements Addressing Building Design

 Building Scale: Building height is consistent with adjacent and neighboring properties.

Human Scale: Achieved by the window fenestration and entry canopy. Generic Scale: Based upon adjacent structures and aircraft clearance requirements.

Building colors are earth tone so as to remain neutral within its context.

D. Landscape design and screening:

· All new landscaping will compliment the site. FAA regulations restrict certain types of plants to be incorporated into the design due to height limitations.

· Building landscape buffers are introduced in limited areas.

· Parking landscaping utilized per city requirements.

xtured masonry dumpster enclosure screen wall has landscape buffer to nize visual acuity.

scape buffer used to screen ground mounted mechanical equipment.

· Wall mounted Signage will be located on the northwest exterior wall. All signage will be designed and approved under a separate review process.

· New pole mounted and wall pack mounted lighting will be incorporated in the design and be located on exterior walls of the building for safety as well as for site lighting. -Refer to site lighting plans.

All facades have been designed to an equal level of detail and quality of the nearest adjacent structure based upon functionality.

Not Applicable.

New utility services are underground.

KEYSTO

· Property not adjacent or along I-64 corridor.



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Exterior Perspective View

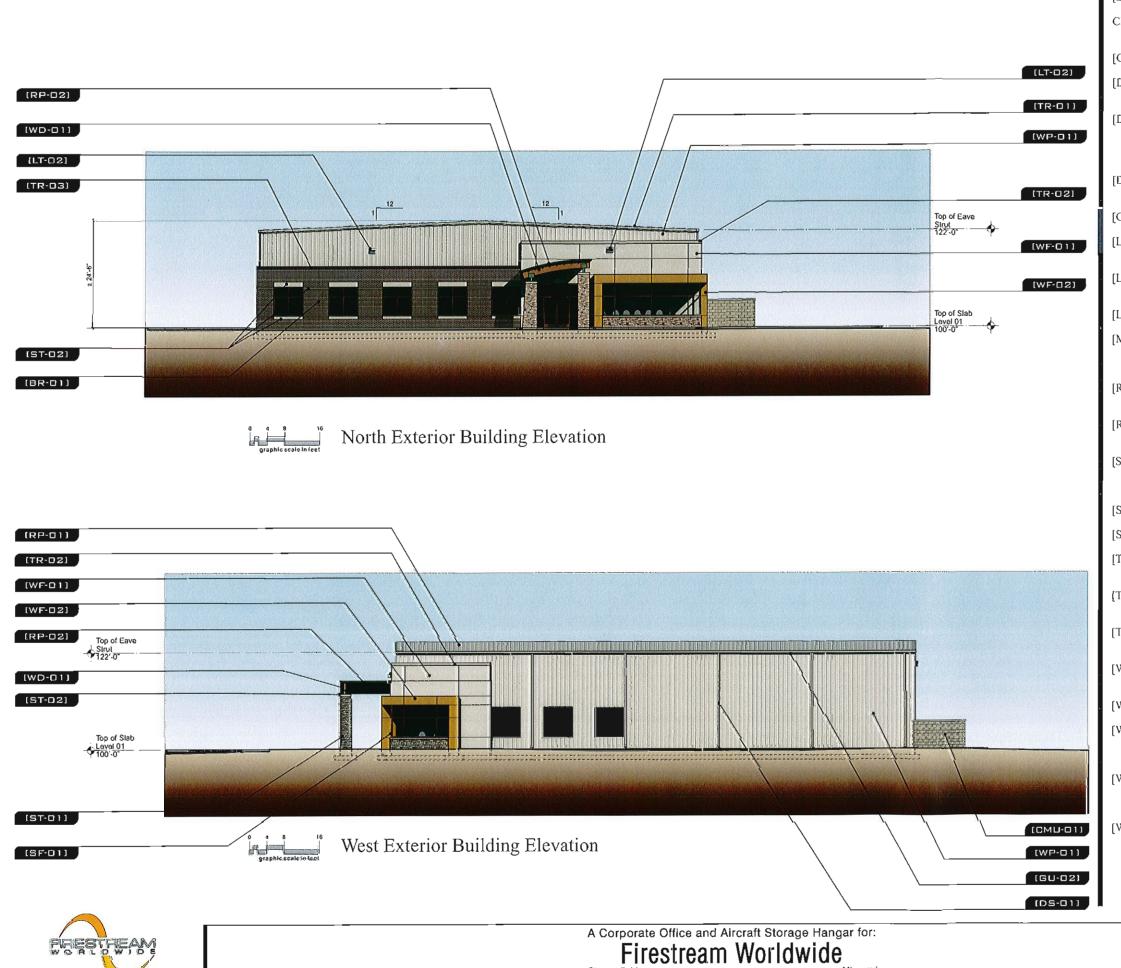


A Corporate Office and Aircraft Storage Hangar for: **Firestream Worldwide** Chesterfield Missouri



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Chesterfield

Missouri

Legend

BR-01]	Face brick veneer
CMU-01]	Masonry screen wall - split face concrete masonry units.
CO-01]	Exposed concrete ramp, stair an/or foundation wall.
DR-01]	Insulated hollow metal door. Paint to match (WP-01) exterior metal building wall panel color.
DR-02]	Mechanically operated 16'-0" tall (northern style) prefabricated (4) leaf aircraft hangar door system, with Light Stone [WP-01] wall panels, exterior by pre- engineered metal building manufacturer.
DS-01]	Pre-finished/prefabricated (WP-01) metal downspout.
GU-01]	Pre-finished/prefabricated (WP-01) metal gutter.
LT-01]	Exterior wall mounted light fixture "Type-W-3"See applicable drawings and electrical documentation.
LT-02]	Exterior wall mounted light fixture "Type-W-4"See applicable drawings and clectrical documentation.
LT-03]	Omit.
ME-01]	Metal Mechanical Exhaust fan with operable louvers. Paint (WP-01) to match exterior metal building panel color. Size and location to be determined.
RP-01]	Pre-finished (Color 03) exterior metal building roof panel.
RP-02]	Pre-finished (Color 04) curved exterior metal standing seam roof panel .
SF-01]	2" X 4 1/2" inedium bronze anodized storcfront framing and/or entry system with 1" insulated glazing tinted Green (Center Set).
ST-01]	Fuil bed depth dry stacked Cultured stone vencer.
ST-02]	Masonry cast stone coping, sill or lintel.
TR-01]	Pre-finished ((WP-01) fascia and/or gable trim by pre-engineered metal building manufacturer.
TR-02]	Prefabricated Metal Coping-01: Permasnap Coping with eustom color to match EIFS wall finish.
TR-03]	Prefabricated Metal Coping-01: Permasnap Mansard Brown Metal Coping.
WD-01]	Pre-engineered/pre-fabricated glulam wood beam with stained finish.
WD-02]	Gate Screen: Cedar wood screen with stained finish.
WF-01]	Exterior Insulation and Finish System, Class PB moisture drainage system and water resistive barrier behind insulation board. Custom Color 01.
WF-02]	Exterior Insulation and Finish System, Class PB moisture drainage system and water resistive barrier behind insulation board. Custom Color 02.
WP-01]	Pre-finished (Color 03) exterior metal building of the panel.



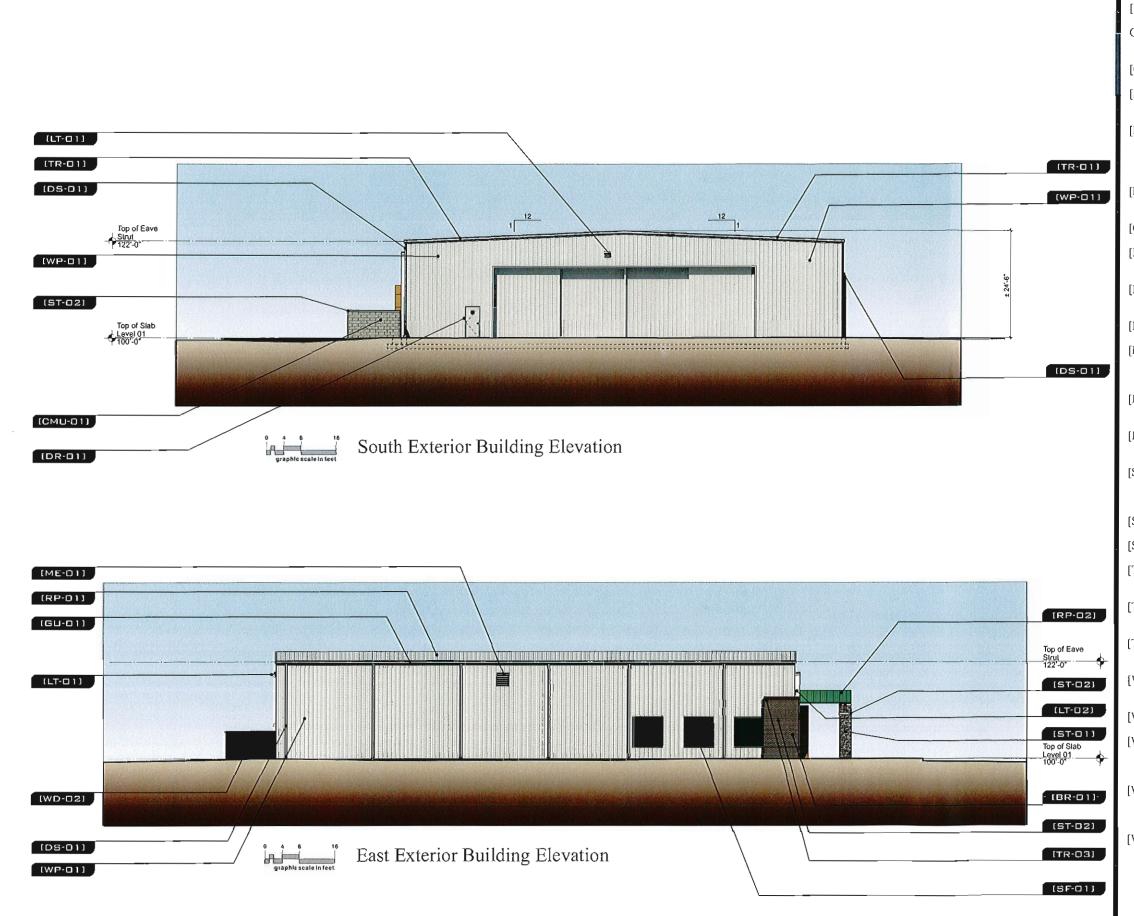
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Legend

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ST-02]	Masonry east stone coping, sill or lintel.
ſR-01]	Pre-finished ((WP-01) fascia and/or gable trim by pre-engineered metal building manufacturer.
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FR-03]	Prefabricated Mctal Coping-01: Permasnap Mansard Brown Metal Coping.
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WD-02]	Gate Screen: Cedar wood screen with stained finish.
WF-01]	Exterior Insulation and Finish System, Class PB moisture drainage system and water resistive barrier behind insulation board. Custom Color 01.
WF-02]	Exterior Insulation and Finish System, Class PB moisture drainage system and water resistive barrier behind insulation board. Custom Color 02.
WP-01]	Pre-finished (Color 03) exterior metal building and panel.



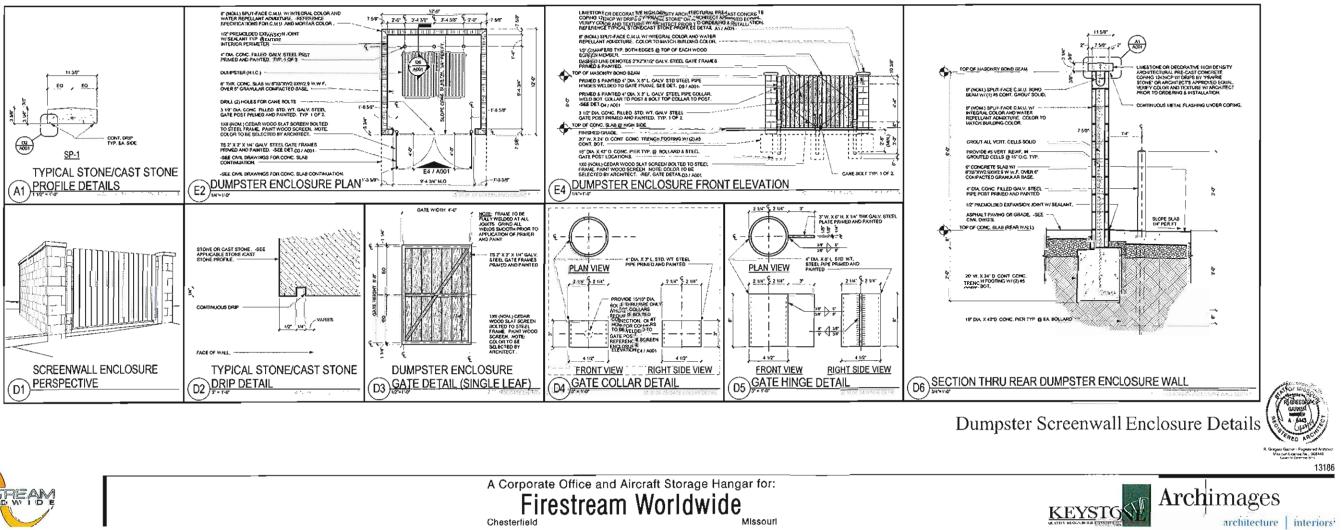
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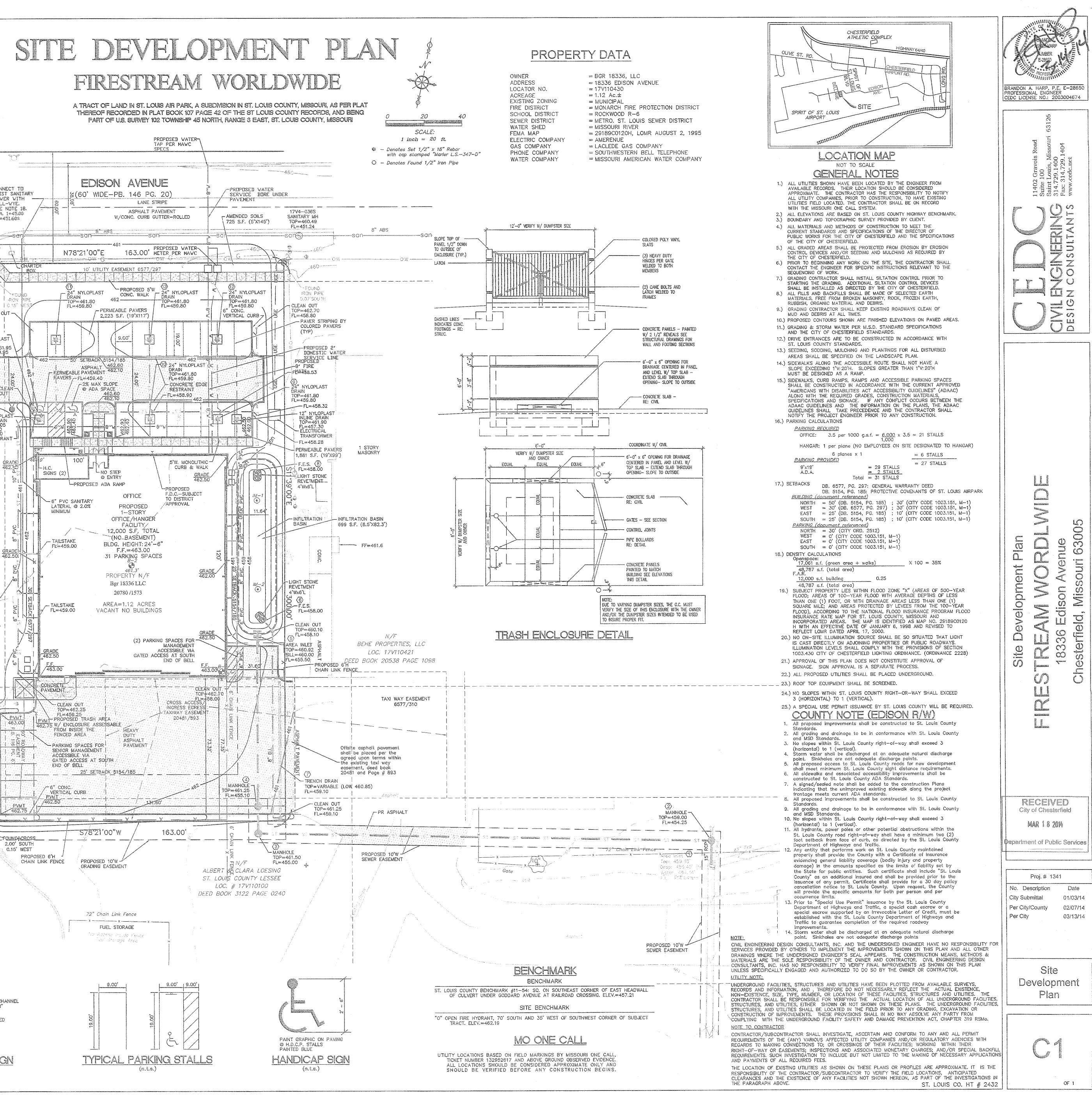
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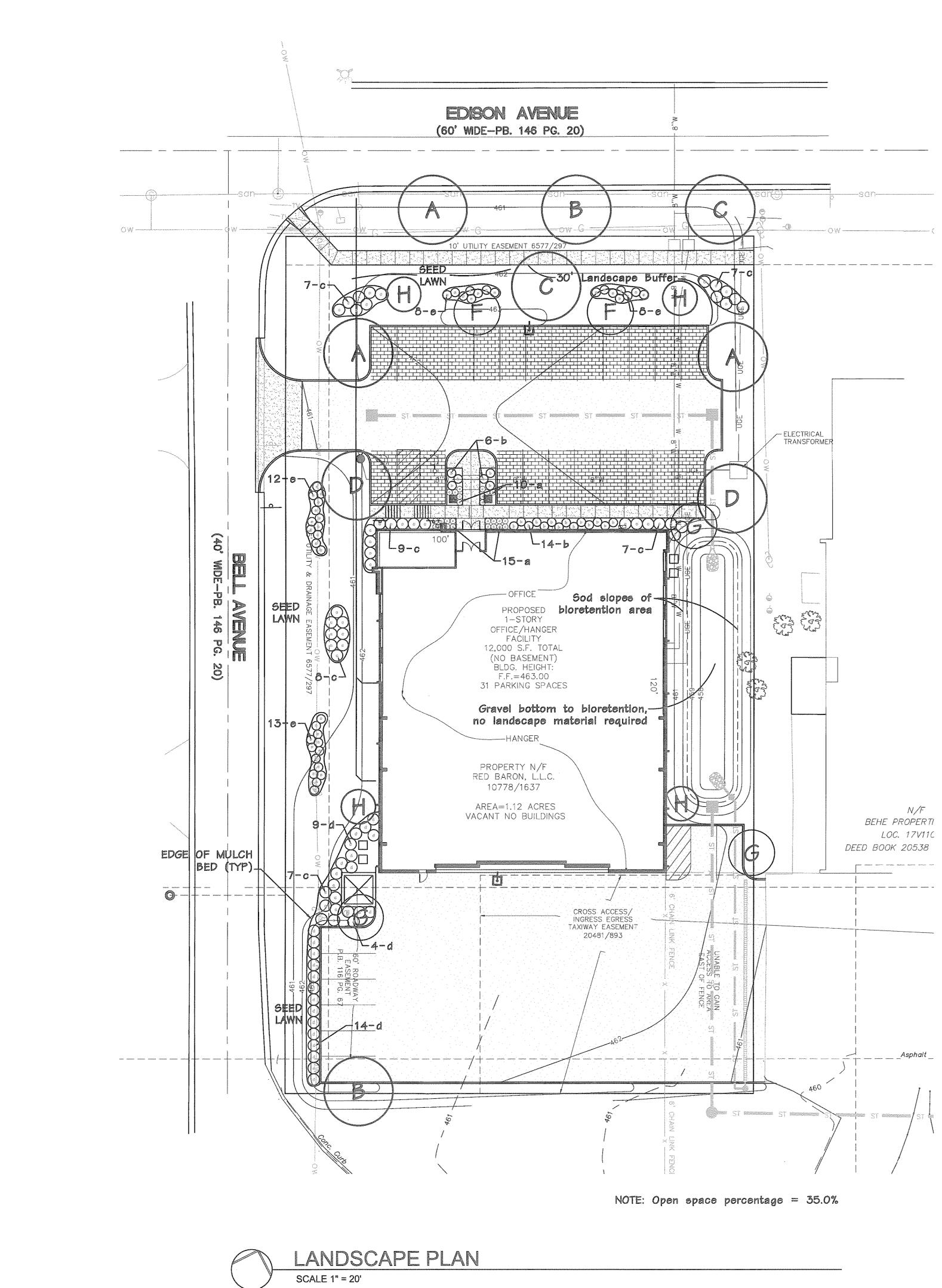
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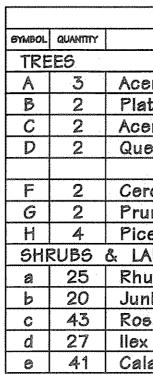




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PROPOSED STORM SEWER		BRUSH & SHRUB LINE	PG PAGE SF SQUARE FEET	
EXISTING SANITARY SEWER =		$\begin{pmatrix} +\\ 36^{\circ} \end{pmatrix}$ TREE & SIZE	AC ACRES ELEV ELEVATION FF FINISH FLOOR	
PROPOSED SANITARY SEWER - RIGHT-OF-WAY -		96"33 BUSH & SIZE	FL FLOWLINE PVC POLYVINYL CHLORIDE PIPE	
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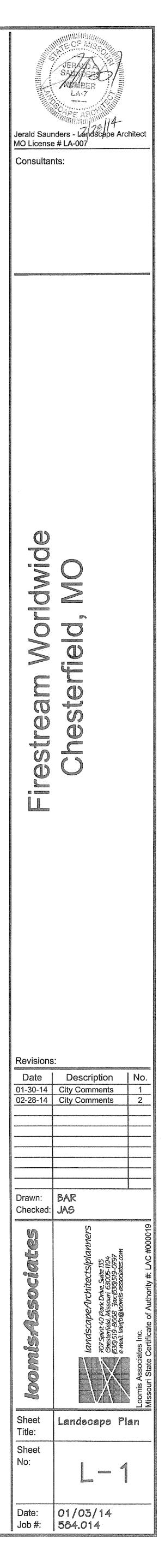


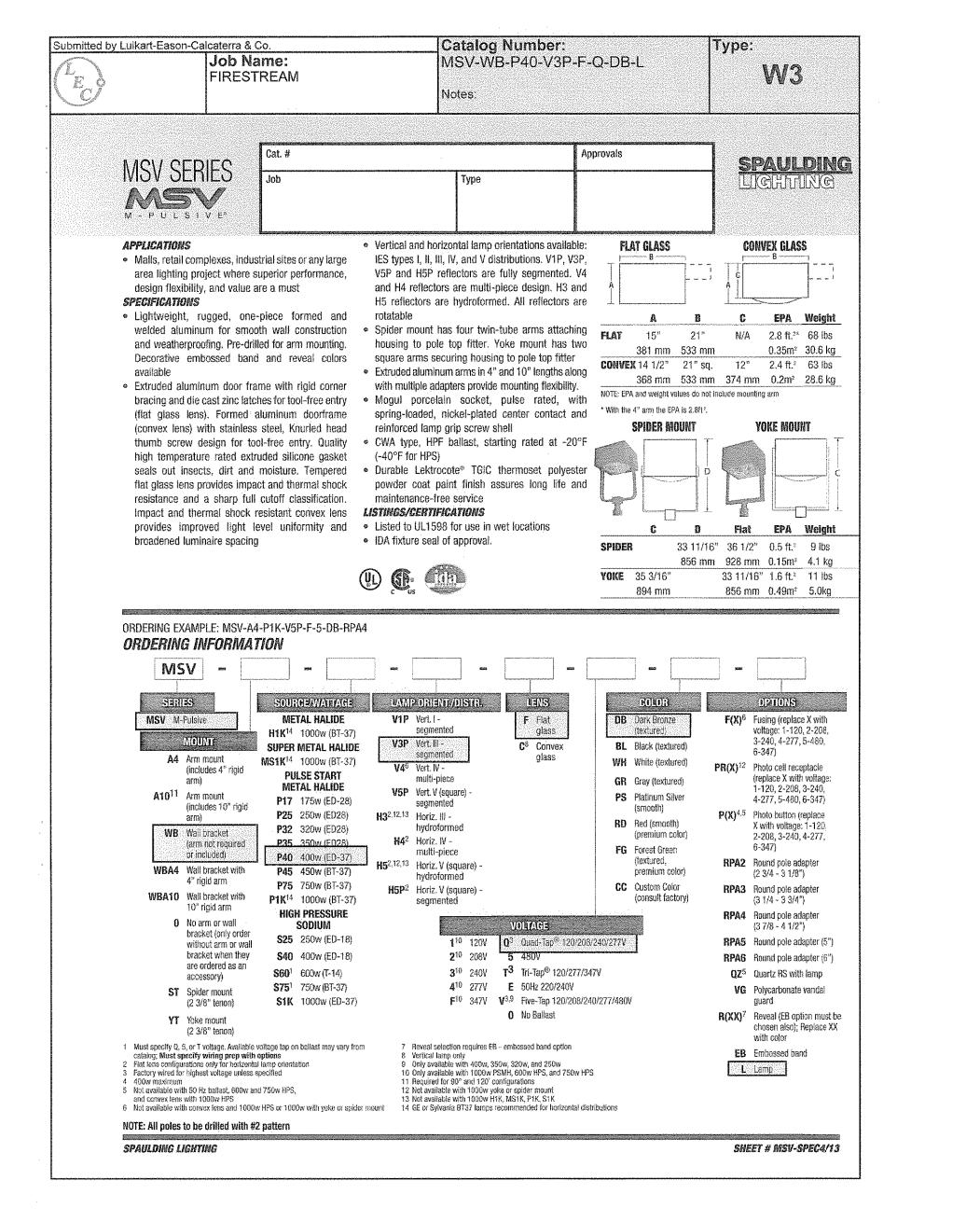


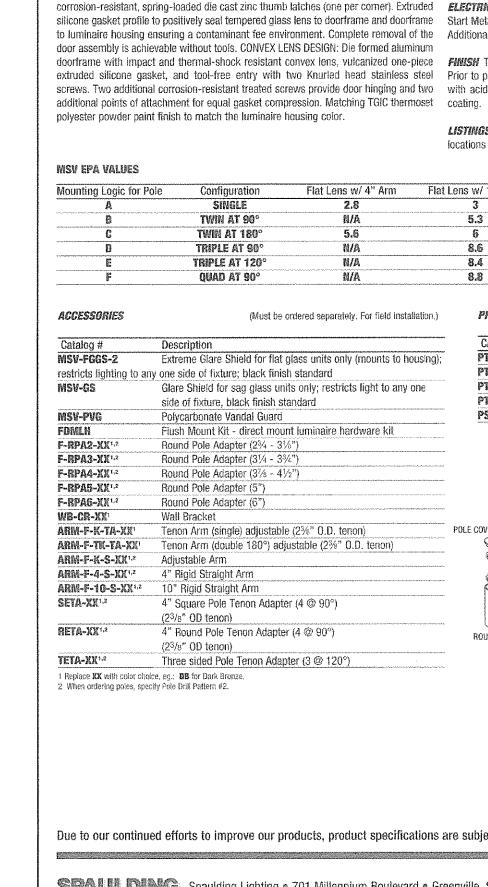


NOTE: An inground irrigation system will be provided for all landscape areas.

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PLANTING	G SCHEDULE				
botanical name	COMMON NAME	612E	remarke	RATE	MATURE HEIGHT
		··· ···			
er rubrum 'Franksred'	Red Sunset Maple	2 1/2"	B&B	FAST	45'+
atanus acerifolia	London Planetree	2 1/2"	B&B	FAGT	45'+
er saccharum 'Green Mountain'	Green Mountain Sugar Maple	2 1/2"	B&B	SL/MED	45'+
ercus bicolor	Swamp White Oak	2 1/2"	B&B	MED.	45'+
rcis canadensis	Redbud	2 1/2"	B&B	FAST	25-30'
unus sargentii 'Columnaris'	Columnar Sargent Cherry	2 1/2"	B&B	MED.	30-40'
cea glauca	White Spruce	6-8'	B&B	MED.	30-40'
ARGE GRASSES					
us aromatica 'Gro-Low'	Gro-Low Sumac	3 gal.			
niperus x pfitzeriana 'Sea Green'	Sea Green Juniper	5 gal.			
sa 'Radrazz'	Knockout Rose	5 gal.			
('Mesog/Mesdob'	China Girl/Boy Holly	7 gal.			
lamagrostis x acutiflora 'Karl Foerster'	Foerster Feather Reed Grass	5 gal.			







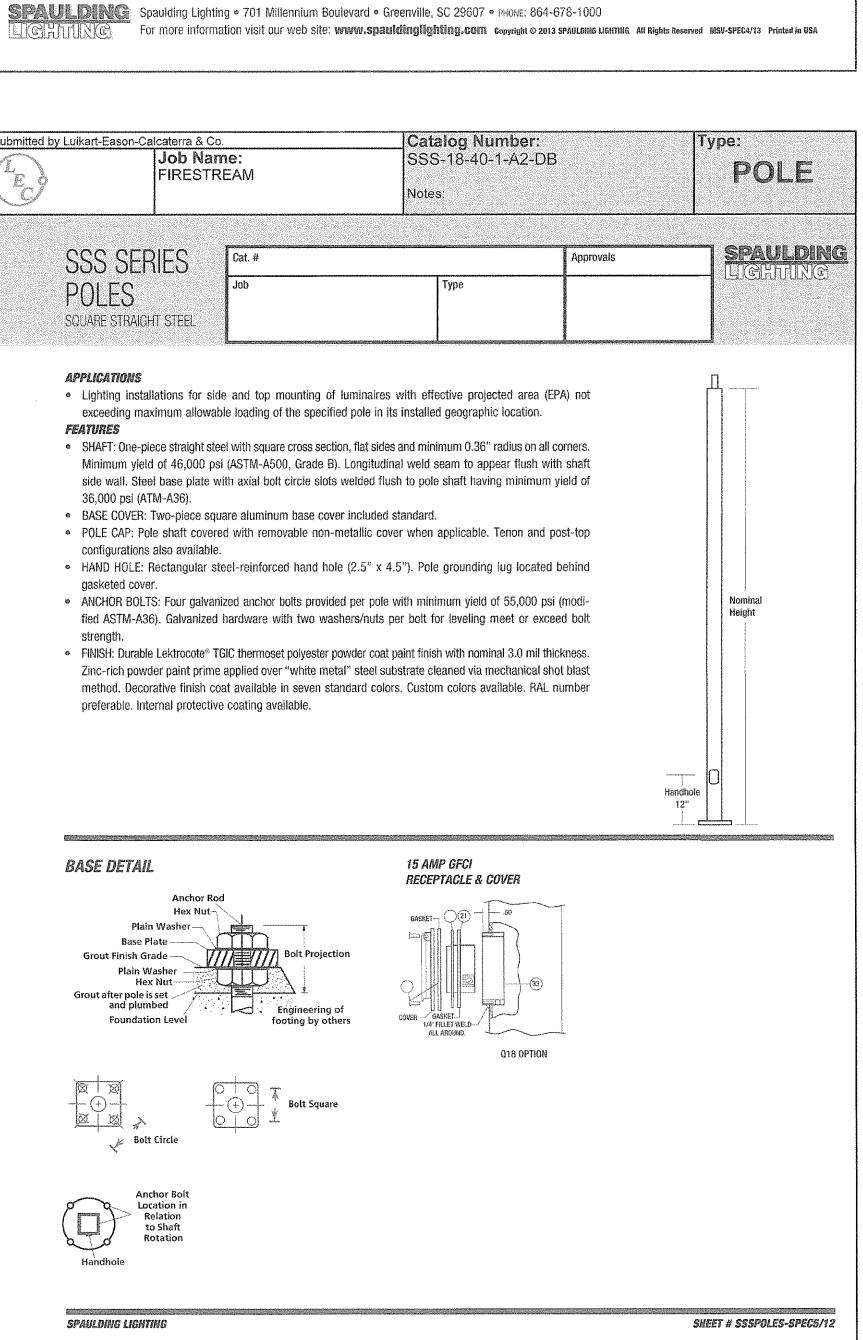
Wall Bracket

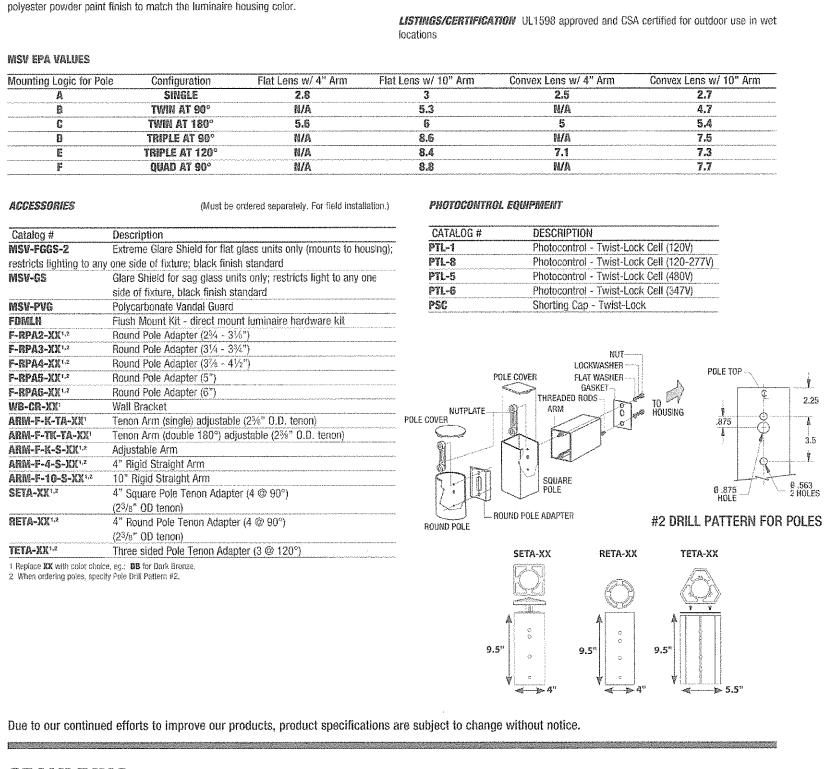
SPECIFICATIONS

FEATURES



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	estrea	am Wo	orldw	Ide
Chesterfield				Miss





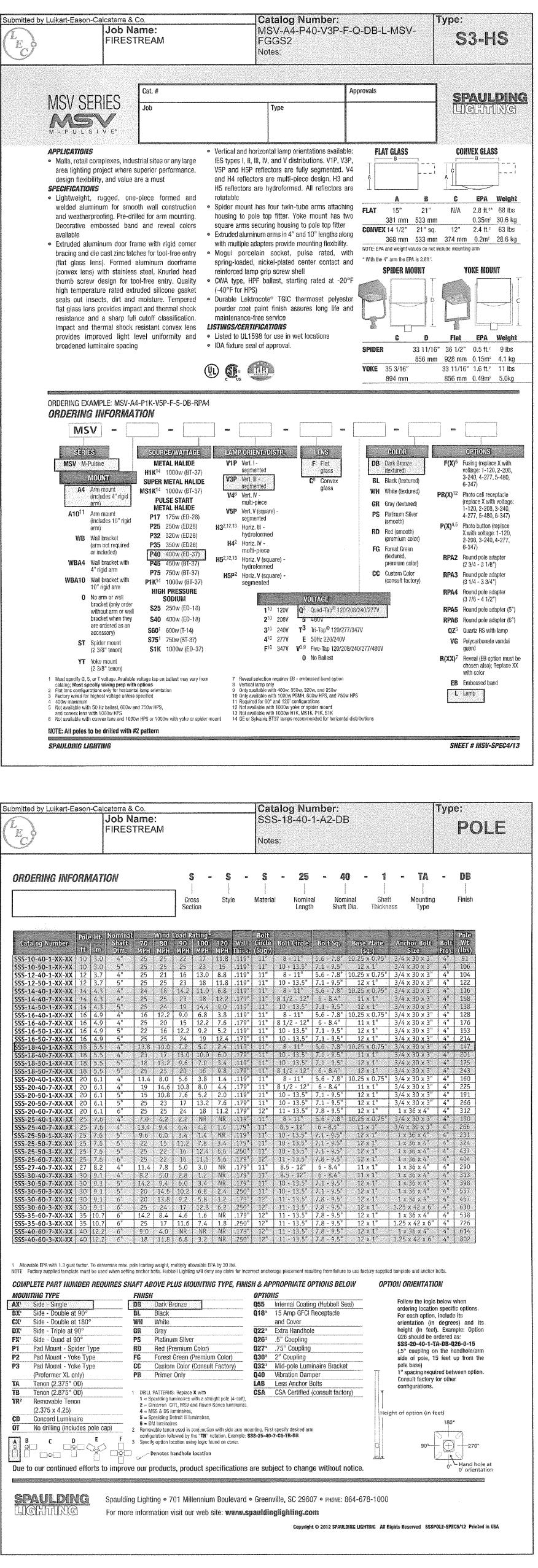
mitted by Luikart-Eason-Calcaterra & Co. Catalog Number: Job Name: MSV-WB-P40-V3P-F-Q-DB-L FIRESTREAM seamless one-piece enclosure. Housing material to be heavy gauge low copper aluminum accessories should include gasket between the housing and accessory. alloy. Door assembly to recess completely within luminaire housing creating evenly spaced reveal and floating door appearance.

Finish to be anodized with natural aluminum color. Tool-free entry design provided by

MOUNTING The luminaire housing shall attach to all mounting hardware via two 1/2" diameter bolts/rods. Mounting options to include rigid arm assemblies, knuckled arm assemblies for flat surfaces, knuckled arm assemblies for 23/s" OD tenon, wall bracket HOUSING Die-formed rectilinear housing to have continuous corner welds creating a adapter, and round pole adapters ensuring maximum luminaire versatility. All mounting OPTICS The luminaire should be available in both vertical and horizontal lamp orientations. All optical assemblies are to be field rotatable in 90° increments. All flat glass configurations **DOOR/LENS** FLAT LENS DESIGN: Extruded aluminum doorframe for tempered flat glass are to be IES – Full Cutoff classified. Internal house side shielding to be available with lens design to have 45° miter cut corners with internal corner key brackets for rigid support. horizontal Type III distribution and field installable. corrosion-resistant, spring-loaded die cast zinc thumb latches (one per corner). Extruded ELECTRICAL Available HID wattage range of 250 to 1000 watts from Metal Halide, Pulse silicone gasket profile to positively seal tempered glass lens to doorframe and doorframe Start Metal Halide, High Output Super Metal Halide, and High Pressure Sodium sources. to luminaire housing ensuring a contaminant fee environment. Complete removal of the Additional options include fusing, photocell cell control, and quartz restrike lamp.

doorframe with impact and thermal-shock resistant convex lens, vulcanized one-piece FIMSH TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness. extruded silicone gasket, and tool-free entry with two Knurled head stainless steel Prior to painting all luminaires and mounting accessories should be thoroughly cleaned screws. Two additional corrosion-resistant treated screws provide door hinging and two with acid and alkaline cleaners followed by the application of a chromate conversion available

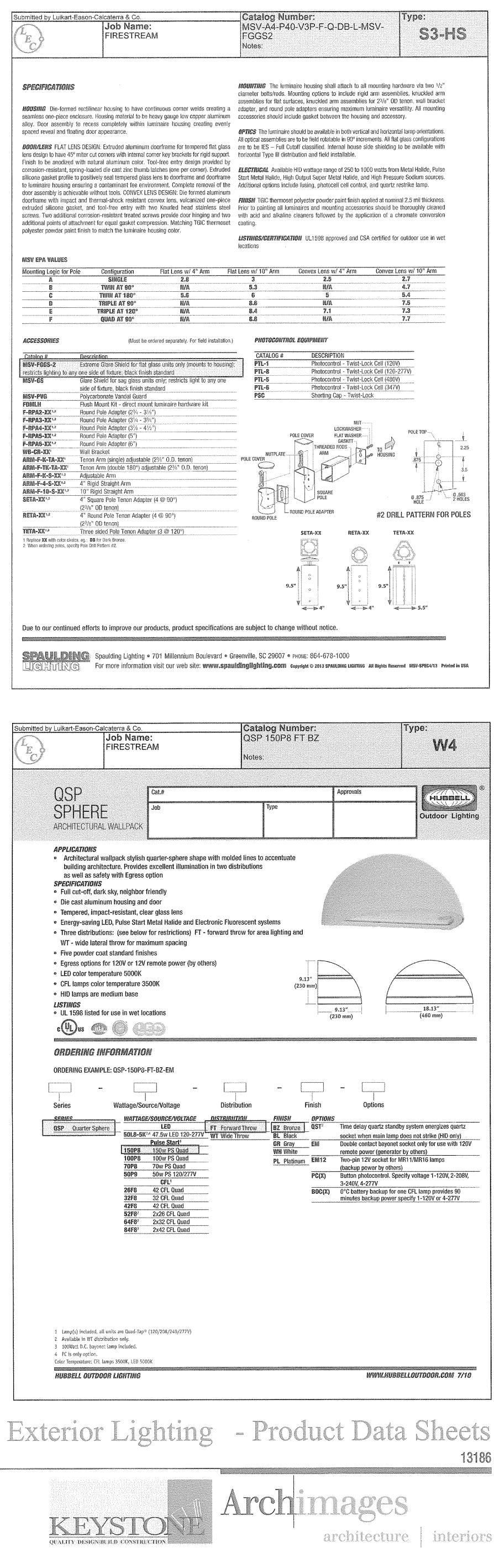
ORDERING INFORMATION SHIPS MSV M-Pulsive A4 Arm mount (includes 4" rigid arm) A10³¹ Arm mount (includes 10[®] rigid arm) WB Wall bracket (arm not required or included) WBA4 Wall bracket with 4" rigid arm WBA10 Wall bracket with 10" rigid arm 0 No arm or wall bracket (only order without arm or wall bracket when thev are ordered as an accessory) ST Spider mount (2 3/8" tenon) YT Yoke mount (2 3/8" tenon) 400w maximum Not available with 50 Hz ballast, 600w and 750w HPS, and convex lens with 1000w HPS NOTE: All poles to be drilled with #2 pattern SPAULDING LIGHTING





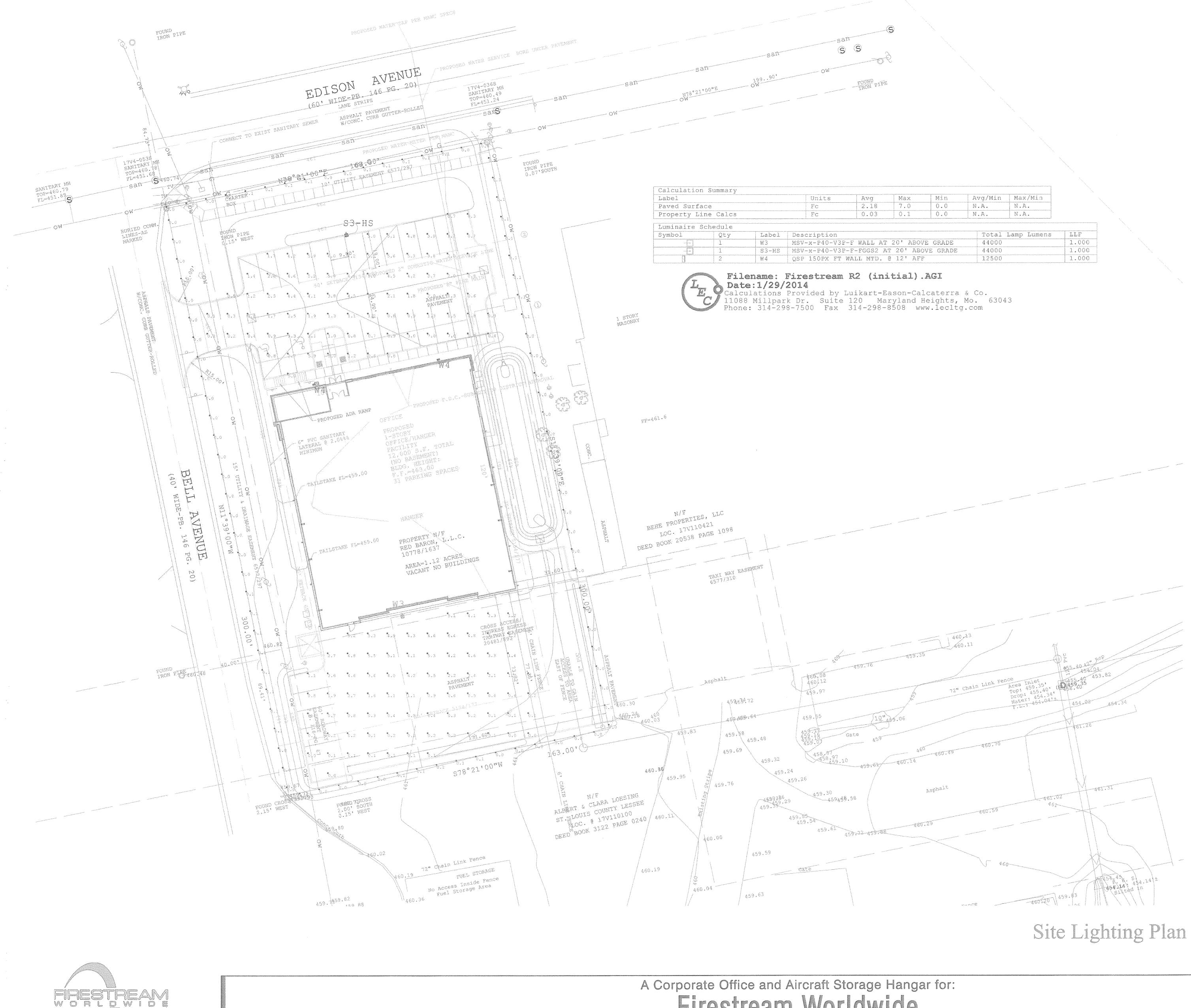
Type: W3

E	Job Name FIRESTREA		MSV-A
Ē	IFIRESTREA		
		M	FGGS
State of the second			Notes:
SPECIFICATIONS	ь		MOUNTING
			ciameter bol assemblies f
YOUSING Die-forme	d rectilinear housing to have co	ontinuous corner welds creat	4
seamless one-piece er	closure. Housing material to be	heavy gauge low copper alum	ninum accessories
	to recess completely within I	uminaire housing creating e	
spaced reveal and the	ating door appearance.		OPTICS The All optical ass
DOOR/LENS FLAT LE	NS DESIGN: Extruded aluminum	doorframe for tempered flat	
	' miter cut corners with internal c		
	with natural aluminum color. T		
	ring-loaded die cast zinc thumb to positively seal tempered glas		
	insuring a contaminant fee envi		
	evable without tools. CONVEX LE		
doorframe with impac	t and thermal-shock resistant (convex lens, vulcanized one-	piece FINISH TGIC
	ket, and tool-free entry with		
	Il corrosion-resistant treated scr achment for equal gasket comp		
	t finish to match the luminaire I		waniy.
, .			LISTINGS/CI
-			locations
MSV EPA VALUES		Mauri I. J	Flat Lens w/ 10"
Mounting Logic for P	nie Continuration	Hat Lene Wy all Am	
Mounting Logic for Po	ole Configuration SINGLE	Flat Lens w/ 4" Arm 2.8	3
Mounting Logic for Po A B	SINGLE TWIN AT 90°		
A B C	SINGLE TWIN AT 90° TWIN AT 180°	2.8 N/A 5.6	3 5.3 6
A B C D	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90°	2.8 N/A 5.6 N/A	3 5.3 6 8.6
A B C	SINGLE TWIN AT 90° TWIN AT 180°	2.8 N/A 5.6	3 5.3 6
A B C D E F	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 120° QUAD AT 90°	2.8 N/A 5.6 N/A N/A N/A	3 5.3 6 8.6 8.4 8.4 8.8
A B C D E F ACCESSORIES	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 120° QUAD AT 90°	2.8 N/A 5.6 N/A N/A	3 5.3 6 8.6 8.4 8.8 (lation.) PHO1
A B C D E F ACCESSORIES	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 120° QUAD AT 90° (Must be of Description	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta	3 5.3 6 8.6 8.4 8.8 Illation.) PH07
A B C D E F ACCESSORIES Catalog # MISV-FGGS-2	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 120° QUAD AT 90° (Must be of Description Extreme Glare Shield for flat i	2.8 N/A 5.6 N/A N/A N/A projected separately. For field insta	3 5.3 6 8.6 8.4 8.8 Illation.) PH07
A B C D E F ACCESSORIES Catalog # MISV-FGGS-2	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 120° QUAD AT 90° (Must be of Description	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta ordered separately. For field insta	3 5.3 6 8.6 8.4 8.8 illation.) PK07 CATA DUSING); PTL-1 PTL-1
A B C D E F ACCESSORIES Catalog # MSV-FGGS-2 restricts lighting to an MSV-GS	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 90° QUAD AT 90° (Must be of Description Extreme Glare Shield for flat y one side of fixture; black finis Glare Shield for sag glass uni side of fixture, black finish st	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta ordered separately. For field insta standard h standard ts only; restricts light to any	3 5.3 6 8.6 8.4 8.8 Illation.) PHOT CATA Dusing); PHOT CATA PTL-1 PTL-2 PTL-2 PTL-2 PTL-2
A B C D E F AGCESSORIES Catalog # MSV-FGGS-2 restricts lighting to an MSV-GS MSV-PVG	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 90° QUAD AT 90° (Must be of Description Extreme Glare Shield for flat y one side of fixture; black finis Glare Shield for sag glass uni side of fixture, black finish st Polycarbonate Vandal Guard	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta glass units only (mounts to h h standard its only; restricts light to any andard	3 5.3 6 8.6 8.4 8.8 Ilation.) PKOT CATA Dusing); PTL-1 PTL-2 One PTL-5
A B C D E F ACCESSORIES Catalog # MSV-FGGS-2 restricts lighting to an MSV-GS MSV-PVG FDMLH	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° GUAD AT 90° (Must be of Description Extreme Glare Shield for flat of y one side of fixture; black finits Glare Shield for sag glass uni side of fixture, black finits st Polycarbonate Vandal Guard Flush Mount Kit - direct mout	2.8 N/A 5.6 N/A N/A ordered separately. For field insta glass units only (mounts to h h standard its only; restricts light to any andard nt luminaire hardware kit	3 5.3 6 8.6 8.4 8.8 Illation.) PHOT CATA Dusing); PHOT CATA PTL-1 PTL-2 PTL-2 PTL-2 PTL-2
A B C D E F ACCESSORIES Catalog # MSV-PGGS-2 restricts lighting to an MSV-GS MSV-PVG FDMLH F-RPA2-XX ^{1,2}	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° GUAD AT 90° (Must be of Description Extreme Glare Shield for flat of one side of fixture, black finits Glare Shield for sag glass unit side of fixture, black finits st Polycarbonate Vandal Guard Flush Mount Kit - direct mout Hound Pole Adapter (2% - 3%	2.8 N/A 5.6 N/A N/A ordered separately. For field insta glass units only (mounts to h h standard its only; restricts light to any andard nt luminaire hardware kit %")	3 5.3 6 8.6 8.4 8.8 Illation.) PHOT CATA Dusing); PHOT CATA PTL-1 PTL-2 PTL-2 PTL-2 PTL-2
A B C D E F ACCESSORIES Catalog # MSV-FGGS-2 restricts lighting to an MSV-GS MSV-PVG FDMLH F-RPA2-XX ^{1,2} F-RPA3-XX ^{1,2}	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 90° QUAD AT 90° (Must be of Description Extreme Glare Shield for flat y one side of fixture; black finis Glare Shield for sag glass uni side of fixture, black finish st Polycarbonate Vandal Guard Flush Mount Kit - direct mour Hound Pole Adapter (3¼ - 3¾ Round Pole Adapter (3¼ - 3¾	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta glass units only (mounts to h h standard its only; restricts light to any andard nt luminaire hardware kit %")	3 5.3 6 8.6 8.4 8.8 Illation.) PHOT CATA Dusing); PHOT CATA PTL-1 PTL-2 PTL-2 PTL-2 PTL-2
A B C D E F ACCESSORIES Catalog # MSV-FGGS-2 restricts lighting to an MSV-GS MSV-PVG FDMLH F-RPA2-XX ^{1,2} F-RPA3-XX ^{1,2}	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° GUAD AT 90° (Must be of Description Extreme Glare Shield for flat of one side of fixture, black finits Glare Shield for sag glass unit side of fixture, black finits st Polycarbonate Vandal Guard Flush Mount Kit - direct mout Hound Pole Adapter (2% - 3%	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta glass units only (mounts to h h standard its only; restricts light to any andard nt luminaire hardware kit %")	3 5.3 6 8.6 8.4 8.8 Illation.) PHOT CATA Dusing); PHOT CATA PTL-1 PTL-2 PTL-2 PTL-2 PTL-2
A B C D E F ACCESSORIES Catalog # MSV-PGGS-2 restricts lighting to an MSV-GS MSV-PVG FDMLH F-RPA2-XX ^{1,2}	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 90° QUAD AT 90° (Must be of Description Extreme Glare Shield for flat of y one side of fixture; black finis Glare Shield for sag glass uni side of fixture, black finish st Polycarbonate Vandal Guard Flush Mount Kit - direct mour Round Pole Adapter (3% - 4% Round Pole Adapter (5%) Round Pole Adapter (5%)	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta glass units only (mounts to h h standard its only; restricts light to any andard nt luminaire hardware kit %")	3 5.3 6 8.6 8.4 8.8 Illation.) PHOT CATA Dusing); PHOT CATA PTL-1 PTL-2 PTL-2 PTL-2 PTL-2
A B C D E F ACCESSORIES Catalog # MSV-FGGS-2 restricts lighting to an MSV-FGGS-2 restricts lighting to an MSV-FVG FOMLH F-RPA2-XX ^{1,2} F-RPA3-XX ^{1,2} F-RPA4-XX ^{1,2} F-RPA5-XX ^{1,2} F-RPA6-XX ^{1,2} WB-CR-XX ¹	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 90° QUAD AT 90° (Must be of Description Extreme Glare Shield for flat a y one side of fixture; black finis Glare Shield for sag glass un side of fixture, black finish st Polycarbonate Vandal Guard Flush Mount Kit - direct mour Round Pole Adapter (3¼ - 33 Round Pole Adapter (3¼ - 34 Round Pole Adapter (3¼ - 44 Round Pole Adapter (5″) Round Pole Adapter (5″) Round Pole Adapter (6″) Wall Bracket	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta glass units only (mounts to his histandard its only; restricts light to any andard nt luminaire hardware kit %") 4") 4")	3 5.3 6 8.6 8.4 (lation.) PHOT CATA Dusing); CATA PTL-1 PTL-2 PTL-2 PTL-2 PTL-2 PTL-2 PSC
A B C D E F ACCESSORIES Catalog # MSV-FGGS-2 restricts lighting to an MSV-FGGS-2 restricts lighting to an MSV-FGGS MSV-PVG FDMLH F-RPA2-XX ^{1,2} F-RPA3-XX ^{1,2} F-RPA4-XX ^{1,2} F-RPA5-XX ^{1,2} F-RPA5-XX ^{1,2} F-RPA6-XX ^{1,2} MB-CR-XX ¹ ARM-F-K-TA-XX ¹	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 90° QUAD AT 90° (Must be of Description Extreme Glare Shield for flat a y one side of fixture; black finis Glare Shield for sag glass uni side of fixture, black finish st Polycarbonate Vandal Guard Flush Mount Kit - direct mour Round Pole Adapter (2¾ - 3¾ Round Pole Adapter (3¼ - 3¾ Round Pole Adapter (3¼ - 3¾ Round Pole Adapter (3¼ - 4⅓ Round Pole Adapter (5″) Round Pole Adapter (5″) Round Pole Adapter (6″) Wall Bracket Tenon Arm (single) adjustable	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta glass units only (mounts to his histandard its only; restricts light to any andard nt luminaire hardware kit %") 4") 4") 4")	3 5.3 6 8.6 8.4 8.8 Illation.) PHOT CATA Dusing); PHOT CATA PTL-1 PTL-2 PTL-2 PTL-2 PTL-2
A B C D E F ACCESSORIES Catalog # MSV-FGGS-2 restricts lighting to an MSV-FGGS-2 restricts lighting to an MSV-FGG FDMLH F-RPA2-XX ^{1,2} F-RPA3-XX ^{1,2} F-RPA3-XX ^{1,2} F-RPA4-XX ^{1,2} F-RPA5-XX ^{1,2} F-RPA5-XX ^{1,2} F-RPA6-XX ^{1,2} MB-CR-XX ^{1,2} ARM-F-K-TA-XX ¹	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 90° QUAD AT 90° QUAD AT 90° (Must be of Description Extreme Glare Shield for flat y one side of fixture; black finis Glare Shield for sag glass uni side of fixture; black finish st Polycarbonate Vandal Guard Flush Mount Kit - direct moun Round Pole Adapter (3¼ - 33) Round Pole Adapter (3¼ - 33) Round Pole Adapter (3¼ - 44) Round Pole Adapter (5″) Round Pole Adapter (5″) Round Pole Adapter (6″) Wall Bracket Tenon Arm (single) adjustable Tenon Arm (double 180°) adj	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta glass units only (mounts to his histandard its only; restricts light to any andard nt luminaire hardware kit %") 4") 4") 4")	3 5.3 6 8.6 8.4 (lation.) PHOT CATA Dusing); CATA PTL-1 PTL-2 PTL-2 PTL-2 PTL-2 PTL-2 PSC
A B C D E F ACCESSORIES Catalon # MSV-FGGS-2 restricts lighting to an MSV-FGGS-2 restricts lighting to an MSV-FGG FDMLH F-RPA2-XX ^{1,2} F-RPA3-XX ^{1,2} F-RPA3-XX ^{1,2} F-RPA4-XX ^{1,2} F-RPA5-XX ^{1,2} F-RPA5-XX ^{1,2} F-RPA5-XX ^{1,2} F-RPA5-XX ^{1,2} MB-CR-XX ¹ ARM-F-K-TA-XX ¹ ARM-F-K-TA-XX ¹	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 90° QUAD AT 90° (Must be of Description Extreme Glare Shield for flat y one side of fixture; black finis Glare Shield for sag glass un side of fixture, black finish st Polycarbonate Vandal Guard Flush Mount Kit - direct mou Round Pole Adapter (3¼ - 33 Round Pole Adapter (3¼ - 33 Round Pole Adapter (3¼ - 44 Round Pole Adapter (5″) Round Pole Adapter (5″) Round Pole Adapter (6″) Wall Bracket Tenon Arm (single) adjustable Tenon Arm (double 180°) adj Adjustable Arm	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta glass units only (mounts to his histandard its only; restricts light to any andard nt luminaire hardware kit %") 4") 4") 4")	3 5.3 6 8.6 8.4 (lation.) PHOT CATA Dusing); CATA PTL-1 PTL-2 PTL-2 PTL-2 PTL-2 PTL-2 PSC
A B C D E F ACCESSORIES Catalog # MSV-FGGS-2 restricts lighting to an MSV-FGGS-2 restricts lighting to an MSV-FVG FDMLH F-RPA2-XX ^{1,2} F-RPA3-XX ^{1,2} F-RPA4-XX ^{1,2} F-RPA5-XX ^{1,2}	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 90° QUAD AT 90° (Must be of Description Extreme Glare Shield for flat y one side of fixture; black finis Glare Shield for sag glass un side of fixture; black finish st Polycarbonate Vandal Guard Flush Mount Kit - direct mou Round Pole Adapter (3¼ - 3) Round Pole Adapter (3¼ - 3) Round Pole Adapter (3¼ - 4½ Round Pole Adapter (3¼ - 4½ Round Pole Adapter (5″) Round Pole Adapter (5″) Round Pole Adapter (6″) Wall Bracket Tenon Arm (single) adjustable Tenon Arm (double 180°) adj Adjustable Arm 4″ Rigid Straight Arm	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta glass units only (mounts to his histandard its only; restricts light to any andard nt luminaire hardware kit %") 4") 4") 4") 2")	3 5.3 6 8.6 8.4 (lation.) PHOT CATA Dusing); CATA PTL-1 PTL-2 PTL-2 PTL-2 PTL-2 PTL-2 PSC
A B C D E F ACCESSORIES Catalog # MSV-FGGS-2 restricts lighting to an MSV-FGGS-2 restricts lighting to an MSV-FGG FDMLH F-RPA2-XX ^{1,2} F-RPA3-XX ^{1,2} F-RPA4-XX ^{1,2} F-RPA5-XX ^{1,2} F-RPA5-XX ^{1,2} F-RPA6-XX ^{1,2} WB-CR-XX ¹ ARM-F-K-TA-XX ¹ ARM-F-K-S-XX ^{1,2} ARM-F-A-S-XX ^{1,2}	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 90° QUAD AT 90° (Must be of QUAD AT 90° (Must be of Description Extreme Glare Shield for flat i y one side of fixture; black finis Glare Shield for sag glass uni side of fixture; black finish st Polycarbonate Vandal Guard Flush Mount Kit - direct moun Round Pole Adapter (3¼ - 33) Round Pole Adapter (3¼ - 33) Round Pole Adapter (3¼ - 44) Round Pole Adapter (5″) Round Pole Adapter (5″) Round Pole Adapter (5″) Round Pole Adapter (6″) Wall Bracket Tenon Arm (single) adjustable Tenon Arm (double 180°) adj Adjustable Arm 4″ Rigid Straight Arm	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta glass units only (mounts to he h standard its only; restricts light to any andard and luminaire hardware kit 6") 4") 2") e (2%" 0.D. tenon) ustable (2%" 0.D. tenon)	3 5.3 6 8.6 8.4 (lation.) PHOT CATA Dusing); CATA PTL-1 PTL-2 PTL-2 PTL-2 PTL-2 PTL-2 PSC
A B C D E F ACCESSORIES Catalog # MSV-FGGS-2 restricts lighting to an MSV-FGGS-2 restricts lighting to an MSV-FGGS-2 restricts lighting to an MSV-FGGS-2 F-RPA2-XX ^{1,2} F-RPA2-XX ^{1,2} F-RPA3-XX ^{1,2} F-RPA4-XX ^{1,2} F-RPA5-XX ^{1,2} F-RPA6-XX ^{1,2} F-RPA6-XX ^{1,2} ARM-F-K-TA-XX ¹ ARM-F-K-S-XX ^{1,2} ARM-F-4-S-XX ^{1,2} SETA-XX ^{1,2}	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 90° QUAD AT 90° QUAD AT 90° QUAD AT 90° (Must be of Description Extreme Glare Shield for flat i y one side of fixture: black finits Glare Shield for sag glass uni side of fixture: black finits st Polycarbonate Vandal Guard Flush Mount Kit - direct mour Hound Pole Adapter (3¼ - 33) Round Pole Adapter (3¼ - 33) Round Pole Adapter (3¼ - 43) Round Pole Adapter (3¼ - 44) Round Pole Adapter (5″) Round Pole Adapter (5″) Round Pole Adapter (6″) Wall Bracket Tenon Arm (single) adjustable Tenon Arm (double 180°) adj Adjustable Arm 4″ Rigid Straight Arm 10″ Rigid Straight Arm 4″ Square Pole Tenon Adapter (23/8″ OD tenon)	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta glass units only (mounts to ha h standard fts only; restricts light to any andard nt luminaire hardware kit 4") 4") 2 (2¾" 0.D. tenon) ustable (2¾" 0.D. tenon) er (4 @ 90°)	3 5.3 6 8.6 8.4 (lation.) PHOT CATA Dusing); CATA PTL-1 PTL-2 PTL-2 PTL-2 PTL-2 PTL-2 PSC
A B C D E F ACCESSORIES Catalog # MSV-FGCS-2 restricts lighting to an MSV-GS MSV-PVG FDMLH F-RPA2-XX ^{1,2} F-RPA3-XX ^{1,2} F-RPA4-XX ^{1,2} F-RPA4-XX ^{1,2} F-RPA5-XX ^{1,2} F-RPA6-XX ^{1,2} F-RPA6-XX ^{1,2} MB-CR-XX ¹ ARM-F-K-TA-XX ¹ ARM-F-K-S-XX ^{1,2} ARM-F-4-S-XX ^{1,2} SETA-XX ^{1,2}	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 90° QUAD AT 90° QUAD AT 90° (Must be of Description Extreme Glare Shield for flat 9 y one side of fixture; black finis Glare Shield for sag glass uni side of fixture; black finish st Polycarbonate Vandal Guard Flush Mount Kit - direct mour Hound Pole Adapter (3¼ - 33) Round Pole Adapter (3¼ - 33) Round Pole Adapter (3¼ - 45) Round Pole Adapter (3¼ - 45) Round Pole Adapter (5″) Round Pole Adapter (5″) Round Pole Adapter (6″) Wall Bracket Tenon Arm (single) adjustable Tenon Arm (double 180°) adj Adjustable Arm 4″ Rigid Straight Arm 10″ Figid Straight Arm 4″ Square Pole Tenon Adapter (24/s″ OD tenon) 4″ Round Pole Tenon Adapter	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta glass units only (mounts to ha h standard fts only; restricts light to any andard nt luminaire hardware kit 4") 4") 2 (2¾" 0.D. tenon) ustable (2¾" 0.D. tenon) er (4 @ 90°)	3 5.3 6 8.6 8.4 8.8 (lation.) PHOT CATA Dusing); One PTL-5 PTL-6 PSC POLE COVER
A B C D E F ACCESSORIES Catalog # MSV-FGGS-2 restricts lighting to an MSV-FGGS-2 restricts lighting to an MSV-GS MSV-PVG FDMLH F-RPA2-XX ^{1,2} F-RPA3-XX ^{1,2} F-RPA4-XX ^{1,2} F-RPA4-XX ^{1,2} F-RPA5-XX ^{1,2} F-RPA6-XX ^{1,2} F-RPA6-XX ^{1,2} WB-CR-XX ¹ ARM-F-K-TA-XX ¹ ARM-F-K-S-XX ^{1,2} ARM-F-K-S-XX ^{1,2}	SINGLE TWIN AT 90° TWIN AT 180° TRIPLE AT 90° TRIPLE AT 90° QUAD AT 90° QUAD AT 90° QUAD AT 90° (Must be of Description Extreme Glare Shield for flat i y one side of fixture: black finits Glare Shield for sag glass uni side of fixture: black finits st Polycarbonate Vandal Guard Flush Mount Kit - direct mour Hound Pole Adapter (3¼ - 33) Round Pole Adapter (3¼ - 33) Round Pole Adapter (3¼ - 43) Round Pole Adapter (3¼ - 44) Round Pole Adapter (5″) Round Pole Adapter (5″) Round Pole Adapter (6″) Wall Bracket Tenon Arm (single) adjustable Tenon Arm (double 180°) adj Adjustable Arm 4″ Rigid Straight Arm 10″ Rigid Straight Arm 4″ Square Pole Tenon Adapter (23/8″ OD tenon)	2.8 N/A 5.6 N/A N/A N/A ordered separately. For field insta glass units only (mounts to h) h standard its only; restricts light to any andard its only; restricts light to any andard andard (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)	3 5.3 6 8.6 8.4 (lation.) PHOT CATA Dusing); CATA PTL-1 PTL-2 PTL-2 PTL-2 PTL-2 PTL-2 PSC



for:

ssouri



Firestream Worldwide Chesterfield

Missouri

13186



KEYSTO

QUALITY DESIGN/BUILD CONSTRUCTION