


**Madison Metropolitan School District  
East High - Fieldhouse Entrance Addition and Renovation  
Plan Commission Submittal**

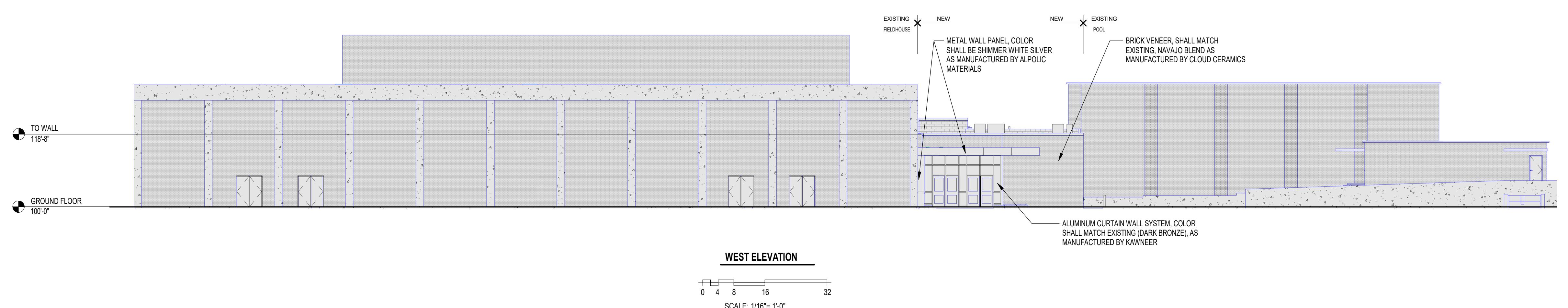
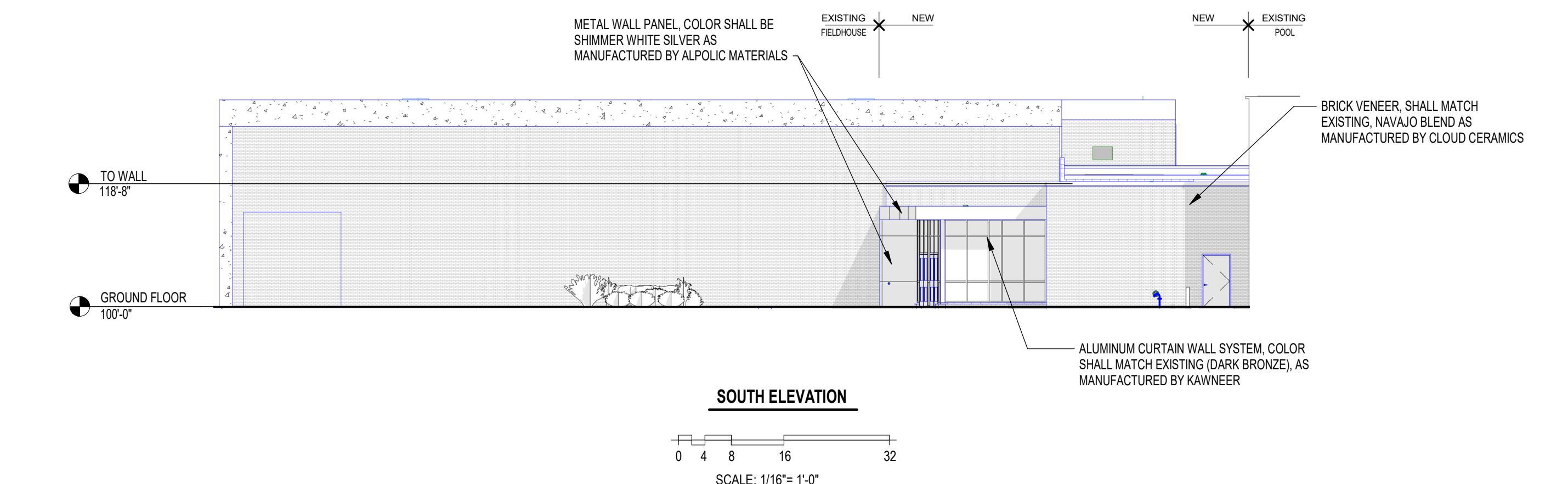
**June 12, 2019**









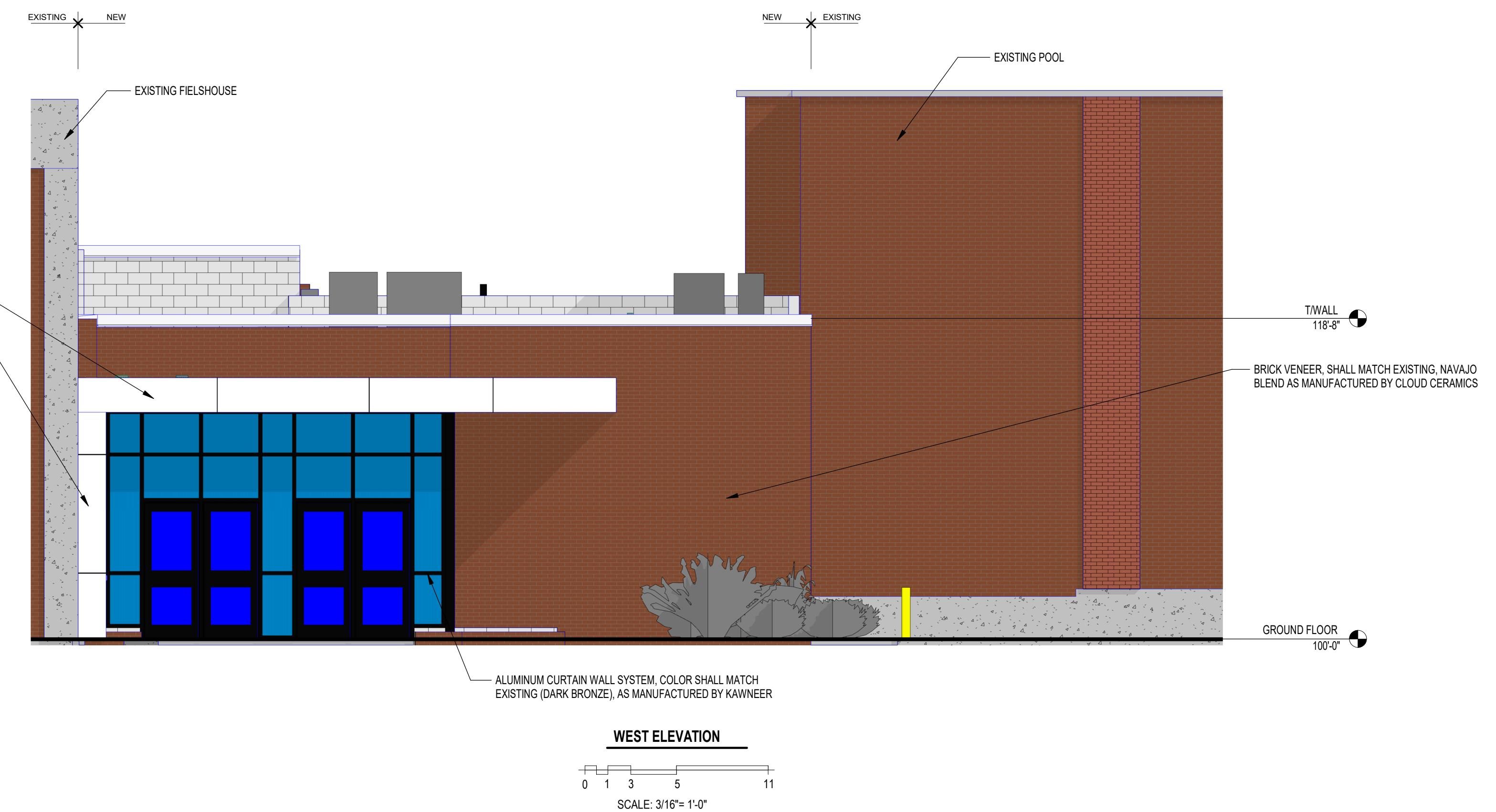
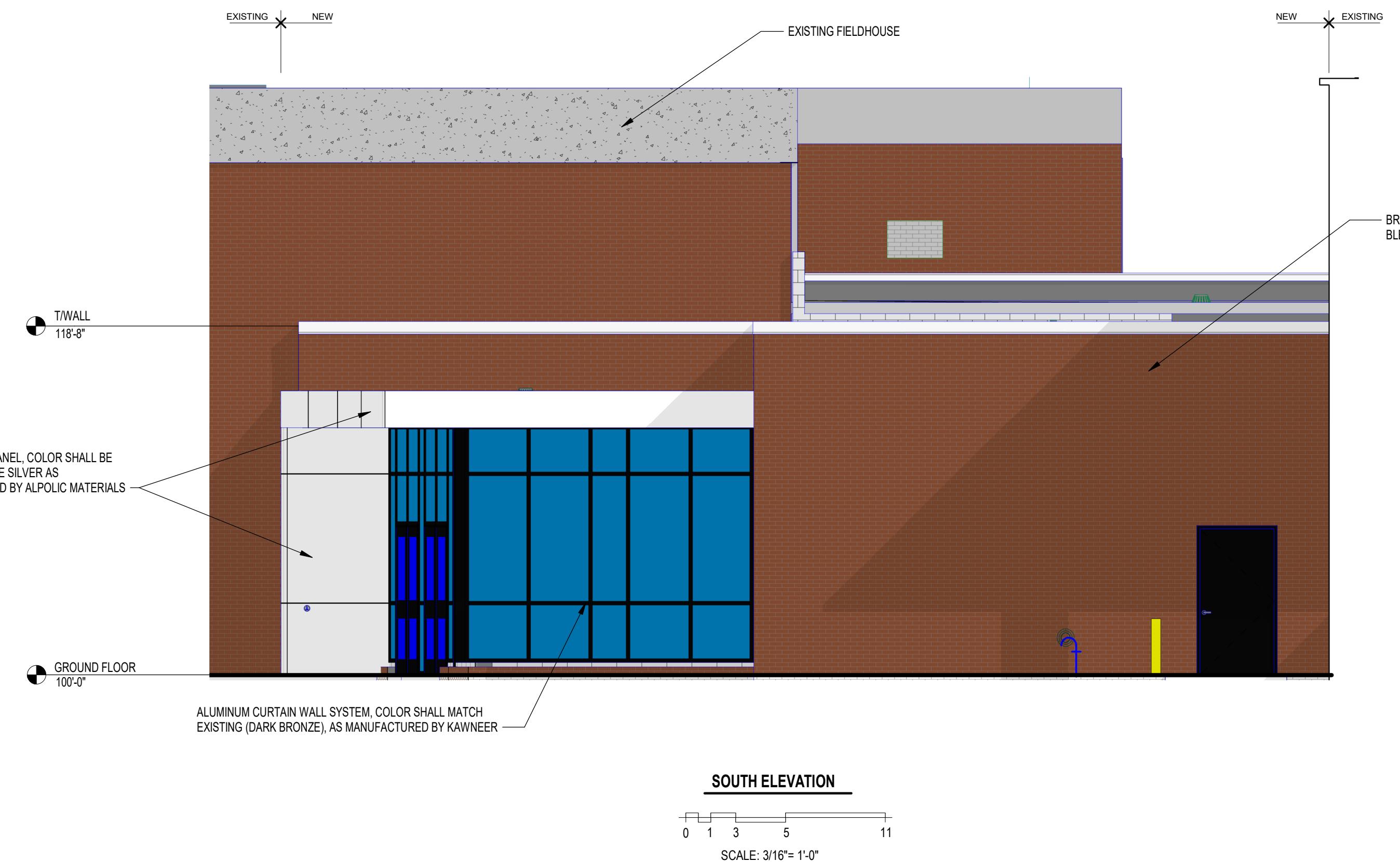


**Madison Metropolitan School District**  
**East High - Fieldhouse Entrance Addition & Renovation**  
 2222 E. Washington Ave. Madison, WI 53704

Revisions:

Date: 05/24/19  
 Job No: 170258-01  
 Sheet No.: 1

B/W



Madison Metropolitan School District  
East High - Fieldhouse Entrance Addition & Renovation  
2222 E. Washington Ave. Madison, WI 53704

Revisions:

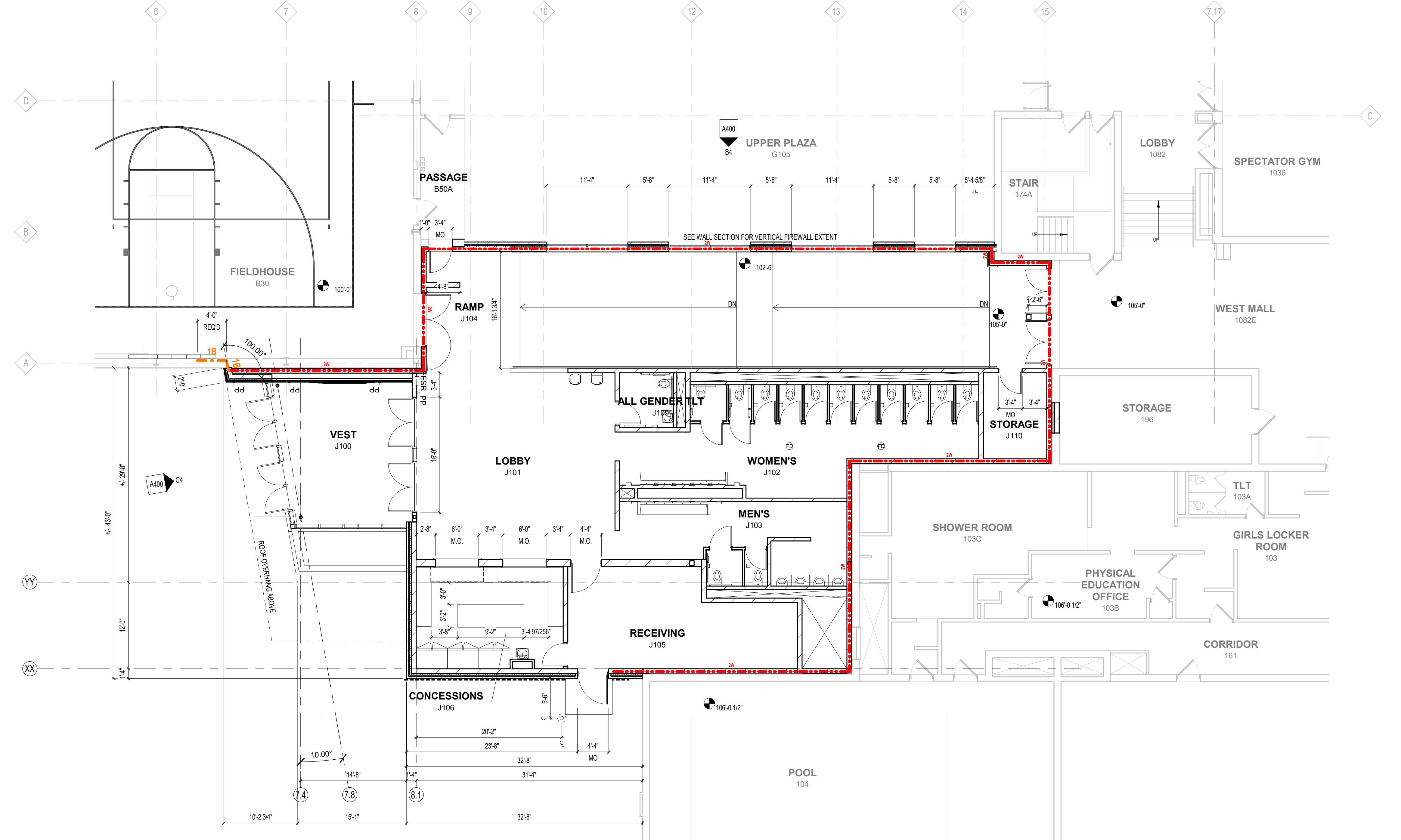
ELEVATIONS

Date: 05/24/19  
Job No: 170258-01  
Sheet No.: 1

CLR

## East High - Fieldhouse Entrance Addition &amp; Renovation - 2222 E. Washington Ave. Madison, WI 53704





Madison Metropolitan School District  
East High - Fieldhouse Entrance Addition & Renovation  
2222 E. Washington Ave. Madison, WI 53704

Revisions:

Date:

05/24/19

Job No:

170258-01

Sheet No.:

170258-01

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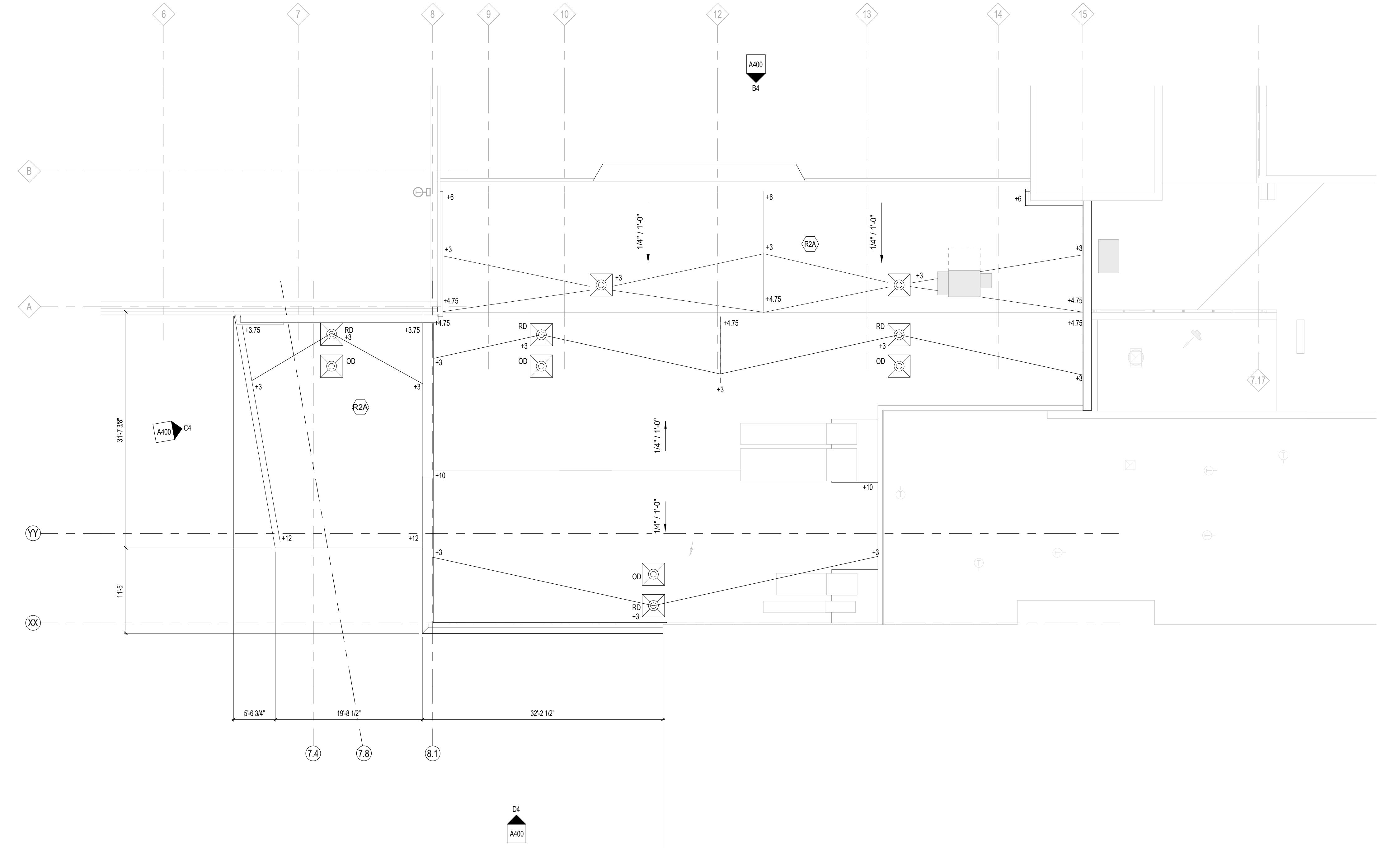
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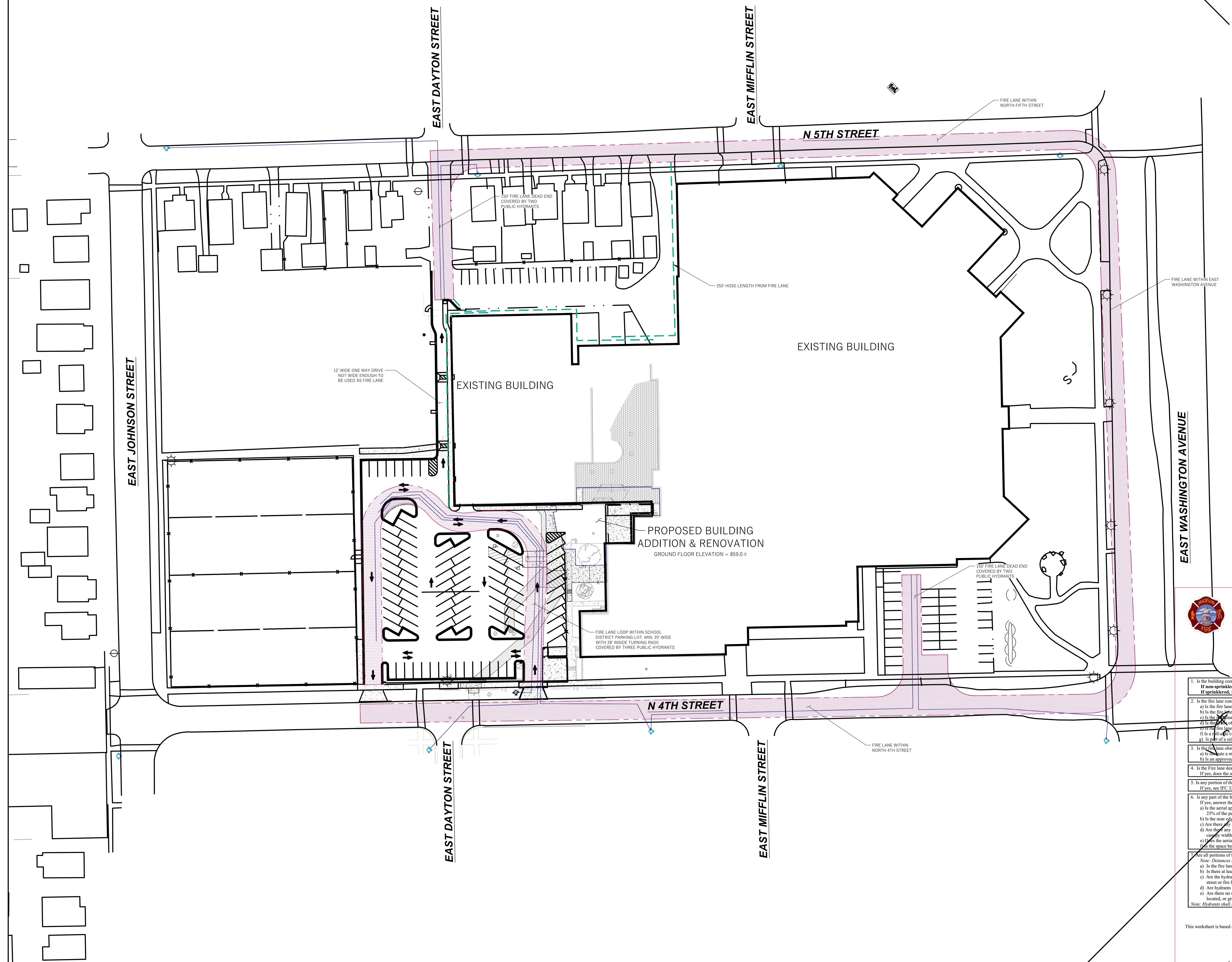


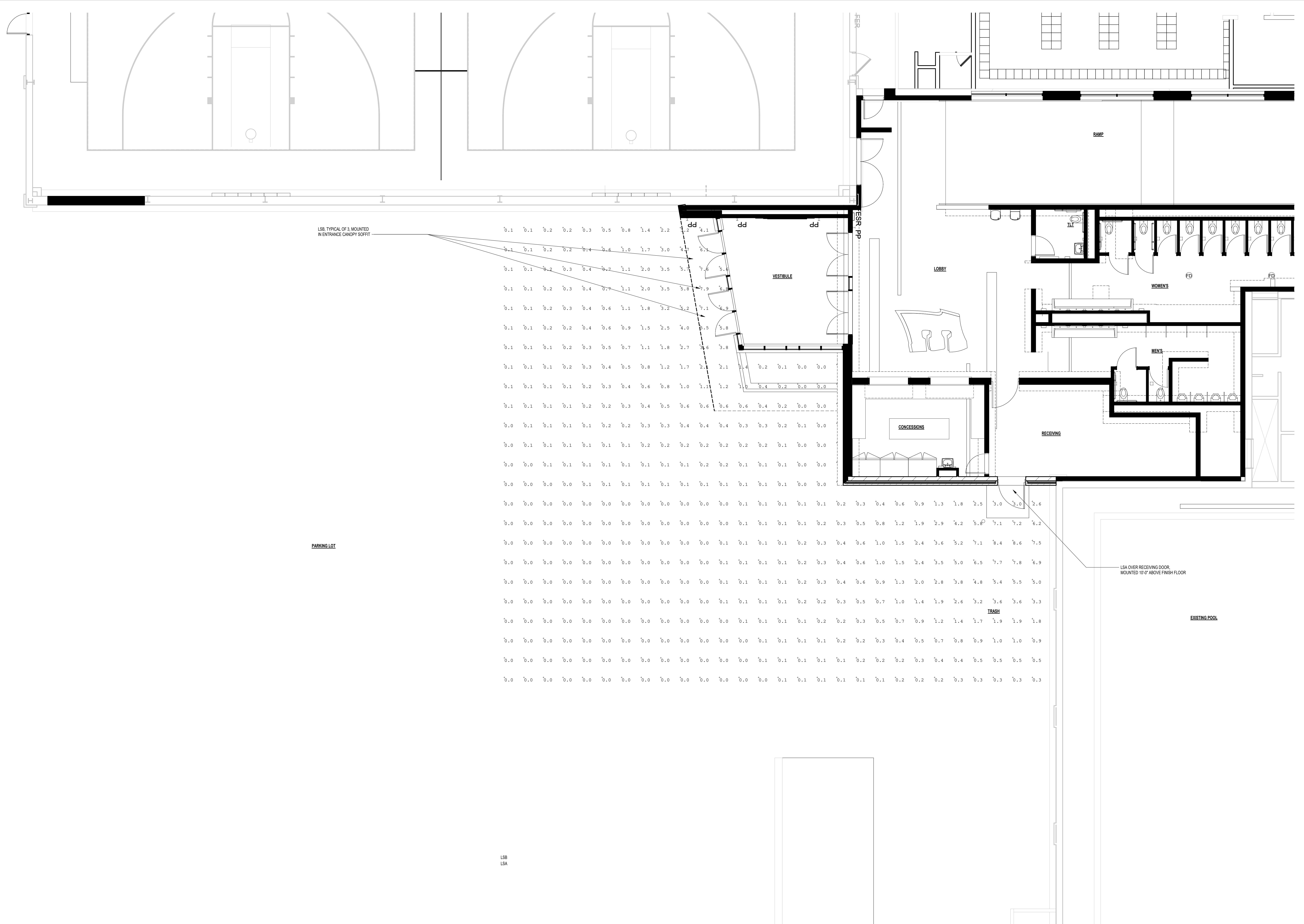
ROOF  
PARTIAL ROOF PLAN  
2222 E. Washington Ave. Madison, WI 53704  
Revisions:  
Date: 05/24/19  
Job No: 170258-01  
Sheet No.: 16  
SCALE: 1/8" = 1'-0"

Madison Metropolitan School District  
East High - Fieldhouse Entrance Addition & Renovation  
2222 E. Washington Ave. Madison, WI 53704  
Revisions:  
Date: 05/24/19  
Job No: 170258-01  
Sheet No.: 16  
SCALE: 1/8" = 1'-0"

PLUNKETT RAYSICH  
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Luminaires Schedule						
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	SLF	Description
○	3	OLCFM 15 DDB	SINGLE	N.A.	0.900	OLCFM 15 DDB
■	1	WST LED P2 50K VW MVOLT	SINGLE	N.A.	0.900	WST LED P2 50K VW MVOLT



# WST LED

## Architectural Wall Sconce



Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

### Specifications

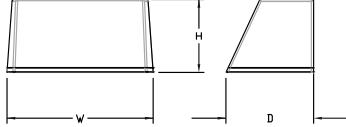
#### Luminaire

**Height:** 8-1/2"  
(21.59 cm)

**Width:** 17"  
(43.18 cm)

**Depth:** 10-3/16"  
(25.9 cm)

**Weight:** 20 lbs  
(9.1 kg)

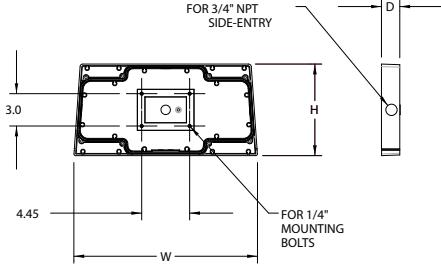


#### Optional Back Box (PBBW)

**Height:** 8.49"  
(21.56 cm)

**Width:** 17.01"  
(43.21 cm)

**Depth:** 1.70"  
(4.32 cm)

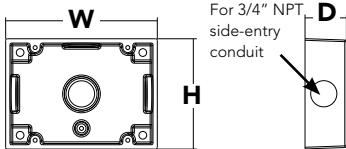


#### Optional Back Box (BBW)

**Height:** 4"  
(10.2 cm)

**Width:** 5-1/2"  
(14.0 cm)

**Depth:** 1-1/2"  
(3.8 cm)



### Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a **shaded background**. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a **shaded background**<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

See ordering tree for details.

A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)



A+ Capable options indicated  
by this color background.

## Ordering Information

**EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD**

WST LED									
Series	Performance Package	Color temperature	Distribution	Voltage			Mounting		
WST LED	P1 1,500 Lumen package	27K 2700 K	VF Visual comfort forward throw VW Visual comfort wide	MVOLT <sup>1</sup>	277 <sup>2</sup>		<b>Shipped included</b> (blank) Surface mounting bracket <b>Shipped separately</b> BBW Surface-mounted back box <sup>3</sup> PBBW Premium surface-mounted back box <sup>3,4</sup>		
	P2 3,000 Lumen package	30K 3000 K		120 <sup>2</sup>	347 <sup>2</sup>				
	P3 6,000 Lumen package	40K 4000 K		208 <sup>2</sup>	480 <sup>2</sup>				
		50K 5000 K		240 <sup>2</sup>					

Options		Finish (required)	
PE	Photoelectric cell, button type <sup>5</sup>	E7WC	Dark bronze
PER	NEMA twist-lock receptacle only (controls ordered separate) <sup>6</sup>	E7WHR	Black
PERS	Five-wire receptacle only (controls ordered separate) <sup>6</sup>	E20WH	Natural aluminum
PER7	Seven-wire receptacle only (controls ordered separate) <sup>6</sup>	E20WC	White
PIR	Motion/Ambient Light Sensor, 8-15' mounting height <sup>7,8</sup>	E23WHR	Textured dark bronze
PIR1FC3V	Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc <sup>7,8</sup>	LCE	Textured black
PIRH	180° motion/ambient light sensor, 15-30' mounting height <sup>7,8</sup>	RCE	Textured natural aluminum
PIRH1FC3V	Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc <sup>7,8</sup>		Textured white
SF	Single fuse (120, 277, 347V) <sup>2</sup>		Textured sandstone
DF	Double fuse (208, 240, 480V) <sup>2</sup>		
DS	Dual switching <sup>9</sup>		
E7WH	Emergency battery backup, Non CEC compliant (7W) <sup>10</sup>		
		<b>Shipped separately</b>	
		RBPW	Retrofit back plate <sup>3</sup>
		VG	Vandal guard <sup>15</sup>
		WG	Wire guard <sup>15</sup>

## Accessories

Ordered and shipped separately.

WSTVCPBBW DDBXD U	Premium Surface - mounted back box
WSBBW DDBTXD U	Surface - mounted back box
RBPW DDBKD U	Retrofit back plate

## NOTES

- 1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 2 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 3 Also available as a separate accessory; see accessories information.
- 4 Top conduit entry standard.
- 5 Need to specify 120, 208, 240 or 277 voltage.
- 6 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- 7 Not available with VG or WG. See PER Table.

8 Reference Motion Sensor table.

9 Not available with Emergency options, PE or PER options.

10 Not available with 347/480V.

11 Battery pack rated for -20° to 40°C.

12 Comes with PBBW.

13 Warranty period is 3-years.

14 Not available with BBW.

15 Must order with fixture; not an accessory.

## Emergency Battery Operation

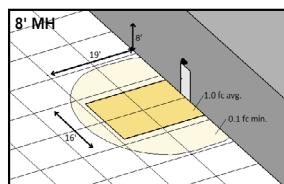
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

All emergency backup configurations include an independent secondary driver with an integral relay to immediately detect AC power loss, meeting interpretations of [NFPA 70/NEC 2008 - 700.16](#)

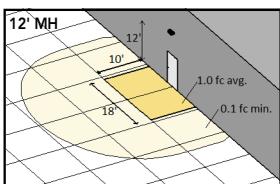
The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per [International Building Code Section 1006](#) and [NFPA 101 Life Safety Code Section 7.9](#), provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package and VF distribution product in emergency mode.

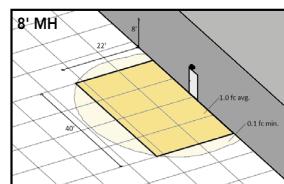
10' x 10' Gridlines  
8' and 12' Mounting Height



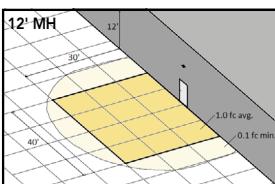
WST LED P1 27K VF MVOLT E7WH



WST LED P1 27K VF MVOLT E7WH



WST LED P1 27K VF MVOLT E7WH



WST LED P1 27K VF MVOLT E7WH

## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
<b>25°C</b>	<b>77°F</b>	<b>1.00</b>
30°C	86°F	0.99
40°C	104°F	0.98

### Projected LED Lumen Maintenance

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.95	>0.92	>0.87

### Electrical Load

Performance package	System Watts	Current (A)					
		120	208	240	277	347	480
P1	11	0.1	0.06	0.05	0.04	---	---
	14	---	---	---	---	0.04	0.03
P1 DS	14	0.12	0.07	0.06	0.06	---	---
	25	0.21	0.13	0.11	0.1	---	---
P2	25	0.21	0.13	0.11	0.1	---	---
	30	---	---	---	---	0.09	0.06
P2 DS	25	0.21	0.13	0.11	0.1	---	---
	50	0.42	0.24	0.21	0.19	---	---
P3	56	---	---	---	---	0.16	0.12
	52	0.43	0.26	0.23	0.21	---	---
P3 DS	52	0.43	0.26	0.23	0.21	---	---

### Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	Photocell Operation	Ramp-up Time	Dwell Time	Ramp-down Time
*PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	3 sec	5 min	5 min
PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	3 sec	5 min	5 min

\*for use with centralize Dusk to Dawn

### PER Table

Control	PER (3 wire)	PER5 (5 wire)			PER7 (7 wire)		
			Wire 4/Wire5		Wire 4/Wire5	Wire 6/Wire7	
Photocontrol Only (On/Off)	✓	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture	
ROAM	🚫	✓	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture	
ROAM with Motion	🚫	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture	
Futureproof*	🚫	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture	
Futureproof* with Motion	🚫	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture	

 Recommended

 Will not work

 Alternate

\*Futureproof means: Ability to change controls in the future.

### Lumen Output

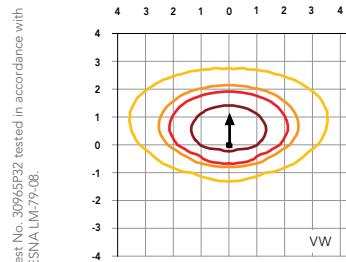
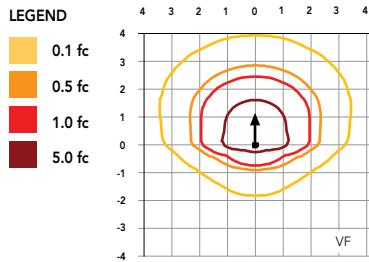
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

Performance Package	System Watts (MVOLT)	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	12W	VF	1,494	0	0	0	125	1,529	0	0	0	127	1,639	0	0	0	137	1,639	0	0	0	137
		VW	1,513	0	0	0	126	1,548	0	0	0	129	1,659	0	0	0	138	1,660	0	0	0	138
P2	25W	VF	3,163	1	0	1	127	3,237	1	0	1	129	3,469	1	0	1	139	3,468	1	0	1	139
		VW	3,201	1	0	0	128	3,276	1	0	0	131	3,512	1	0	0	140	3,512	1	0	0	140
P3	50W	VF	6,025	1	0	1	121	6,165	1	0	1	123	6,609	1	0	1	132	6,607	1	0	1	132
		VW	6,098	1	0	1	122	6,240	1	0	1	125	6,689	1	0	1	134	6,691	1	0	1	134

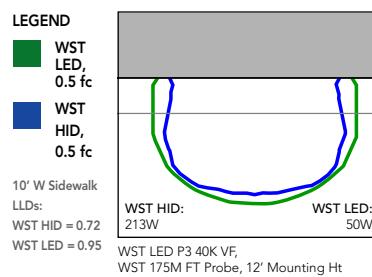
## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [WST LED homepage](#).

Isofootcandle plots for the WST LED P3 40K VF and VW. Distances are in units of mounting height (10').



Distribution overlay comparison to 175W metal halide.



## FEATURES & SPECIFICATIONS

### INTENDED USE

The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

### CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

### OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WST LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine(s) consist of 98 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L87). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

### INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

### LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. PIR and back box options are rated for wet location. Rated for -30°C to 40°C ambient.

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The OLCFM provides years of maintenance-free general illumination for residential and commercial outdoor applications such as porches, covered walkways and store entrances.

**CONSTRUCTION** — Rugged cast-aluminum top-plate and outer-ring are protected by a thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

Polycarbonate LED lens/cover protects LEDs.

Fixture weight = 2.98 lbs.

**OPTICS** — 96 high-performance LEDs produces up to 1077 lumens and maintain 70% of light output at 50,000 hours of service.

(LED lifespan based on IESNA LM-80-08 results and calculated per IESNA TM-21-11 methodology.)

White acrylic diffuser provides a soft white light at 4000K CCT

See Lighting Facts Labels for specific fixture performance.

**ELECTRICAL** — Fixture operates at 120 volts, 60 Hz.

Standard input = 16.6 watts

Operating temperature -40°C to 40°C.

Amps @ 120V = .131.

Surge protection = 2.5kV.

**INSTALLATION** — Mounts easily to existing junction box (by others).

**LISTINGS** — UL Listed to U.S. and Canadian safety standards for wet locations.

Designed for ceiling or wall mounting more than 4' above the ground.

Tested in accordance with IESNA LM-79 and LM-80 standards.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Note: Specifications subject to change without notice.

Catalog  
Number

Notes

Type

Outdoor General Purpose

**OLCFM**



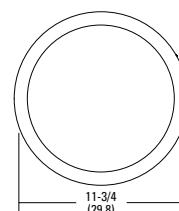
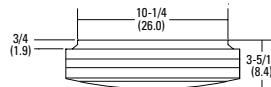
OUTDOOR LED CAST FLUSH MOUNT



LED  
lighting  
facts  
LED Product Partner



WET LOCATION™



All dimensions are inches (centimeters) unless otherwise indicated.

### ORDERING INFORMATION

All configurations of this product are considered "standard" and have short lead times.

**Example:** OLCFM 15 DDB

OLCFM	Light Engine	Color Temperature (CCT) <sup>1</sup>	Voltage	Finish
OLCFM	15	(blank) 4000K	(blank) 120V	DDB Dark bronze WH White

### Notes

<sup>1</sup> Nominal Correlated Color Temperature (CCT) per ANSI C78.377-2008.

# OLCFM Outdoor LED Cast Flush Mount

## PHOTOMETRIC DIAGRAMS

To see complete photometric reports or download .ies files for this product, visit [www.Lithonia.com](http://www.Lithonia.com). Tested in accordance with IESNA LM 79 and LM 80 standards.

