

TIME: 8:30 am

DATE: 18 December 2023

PATHNAME: G:\21375\EL\Sheets

DRAWING FILENAME: 21-375E202

DRAFTER: CW01

PANEL NUMBER		G		VOLTAGE		120/208		PHASE		3 WIRE 4		NEMA 1		COPPER BUSS	
SOURCE		DB		A.I.C.		22,000		MAIN LUGS ONLY		SURFACE MOUNTING		BUS AMPERE RATING		100	
PANEL LOCATION		ELECTRICAL ROOM		LOAD(VA)		BRKR		AMP		POLE		CIRCUIT DESCRIPTION		LOAD(VA)	
CIRCUIT DESCRIPTION		A		B		C		POLE		AMP		CIRCUIT DESCRIPTION		LOAD(VA)	
SPARE		1		20		1		2		20		FIRE ALARM		500	
		1		20		3		4		20				500	
		1		20		5		8		20				500	
		1		20		7		8		20		SPARE			
		1		20		9		10		20					
		1		20		11		12		20					
ELECTRICAL ROOM RECEPT		1		20		13		14		20					
		1		20		15		16		20					
		1		20		17		18		20					
		1		20		19		20		20					
		1		20		21		22		20					
LIGHTING (ARP)		1		20		23		24		20					
		1		20		25		26		20					
		1		20		27		28		20				100	
		1		20		29		30		20				100	
TOTALS		960		1380		1380				500		600		600	
L.C.L. VOLT AMPS:		PHASE A		PHASE B		PHASE C									
TOTAL VOLT AMPS:		5420		PHASE A		1460		PHASE B		1980		PHASE C		1980	
TOTAL AMPS:		15		PHASE A		12		PHASE B		17		PHASE C		17	

NEW PANEL														NEMA 1		COPPER BUSS	
PANEL NUMBER		ITA		VOLTAGE		120/208VAC		PHASE		3 WIRE 4		MAIN LUGS ONLY					
SOURCE		UPSA		A.I.C.		22,000						FLUSH MOUNTING					
PANEL LOCATION		PER E400		BUS AMPERE RATING		225											
CIRCUIT DESCRIPTION		LOAD(VA)		BRKR		AMP		POLE		LOAD(VA)		CIRCUIT DESCRIPTION		LOAD(VA)			
IT RACKS		A B C		POLE AMP		PHASE A B C		AMP POLE		A B C		L6-30R		600			
		600		1	20 1	4	2	2		600		600	↓				
			600	1	20 5	6	30	2			600	↓	L6-30R				
		600		1	20 7	8	30	2		600		600	↓	L6-30R			
			600	1	20 9	10	30	2			600	↓	L6-30R				
		600		1	20 11	12	30	2		600		600	↓	L6-30R			
			600	1	20 13	14	30	2			600	↓	L6-30R				
		600		1	20 15	16	30	2		600		600	↓	L6-30R			
			600	1	20 17	18	30	2			600	↓	L6-30R				
		600		1	20 19	20	30	2		600		600	↓	L6-30R			
			600	1	20 21	22	30	2			600	↓	L6-30R				
		600		1	20 23	24	30	2		600		600	↓	L6-30R			
			600	1	20 25	26	30	2			600	↓	L6-30R				
		600		1	20 27	28	30	2		600		600	↓	L6-30R			
			600	1	20 29	30	30	2			600	↓	L6-30R				
		600		1	20 31	32	30	2	-	-	-	↓	SPARE				
			600	1	20 33	34	30	2	-	-	-						
		600		1	20 35	36	30	2	-	-	-						
			600	1	20 37	38	30	2	-	-	-						
		600		1	20 39	40	30	2	-	-	-						
			600	1	20 41	42	20	1	-	-	-	600	↓	RACK			
TOTALS		4200	4200	4200						3000	3000	3000	TOTALS				
L.C.L. VOLT AMPS:		PHASE A		PHASE B		PHASE C											
TOTAL VOLT AMPS:		21600		7200		7200		7200									
TOTAL AMPS:		60		60		60		60									
ISOLATED GROUND PANEL																	

TIME: 8:31 am

DATE: 18 December 2023

PATHNAME: C:\21\375\EL\Sheets

DRAWING FILENAME: 21-375E300D

DRAFTER: CN01

DATE: 07/11/2024
APP: 03-123218 INC:
REVIEWED FOR:
SS ☒ FLS ☒ ACS ☒
DATE: 07/11/2024

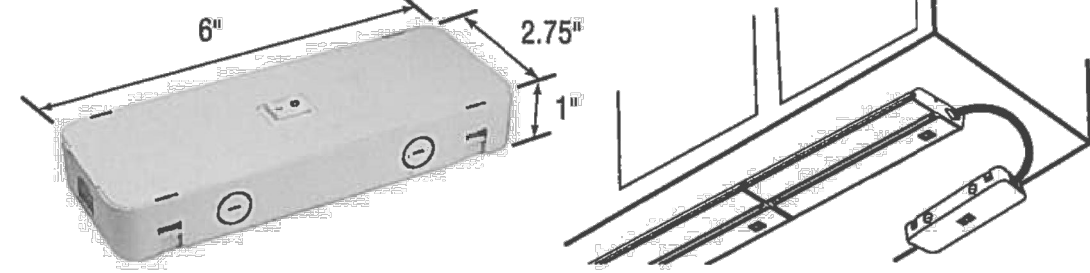


UniCab™ POWER & CONNECT

UNIVERSAL CABINET LIGHT | 120-277 VOLT
0-10V DIMMING | ADJUSTABLE KELVIN

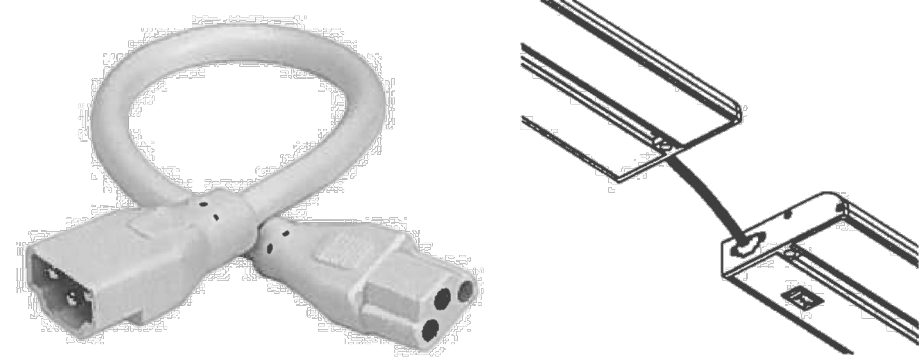
Fixture Type: _____
Project: _____
Location: _____

OPTIONAL COMPONENTS



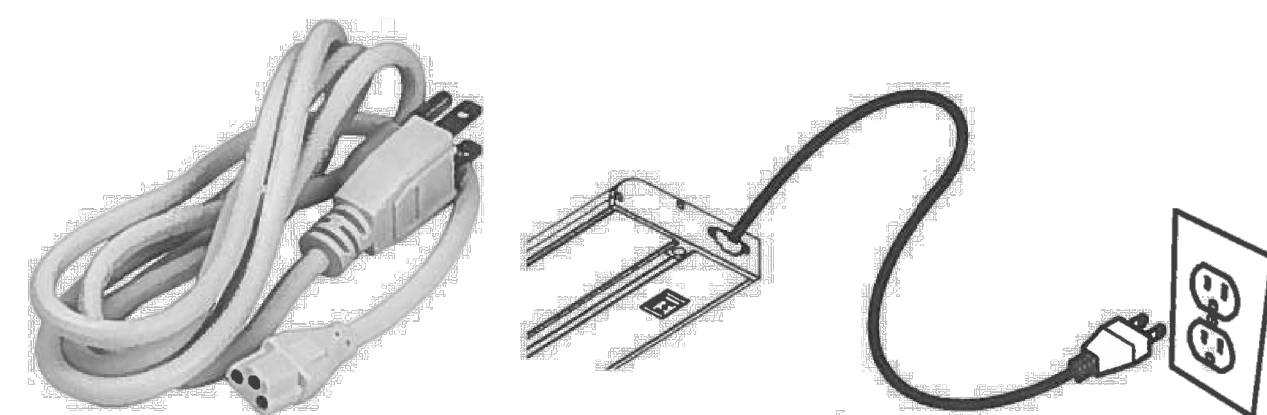
Hardwire Box

Although UniCab fixtures can hardwire directly without a hardwire box, this item can be used to separate the power feed location from the fixture. When using the hardwire box, please note that a jumper set is required (specify length—sold separately).
UC-HW



Jumper Sets

Connects UniCab fixtures to Hardwire Box, or allows for fixture separation when multiple fixtures are connected in series.
6" | UC-JP-6-SET
24" | UC-JP-24-SET
60" | UC-JP-60-SET
(Jumper sets include cabling for 0-10V Dimming.)



Plug-In Power Feed

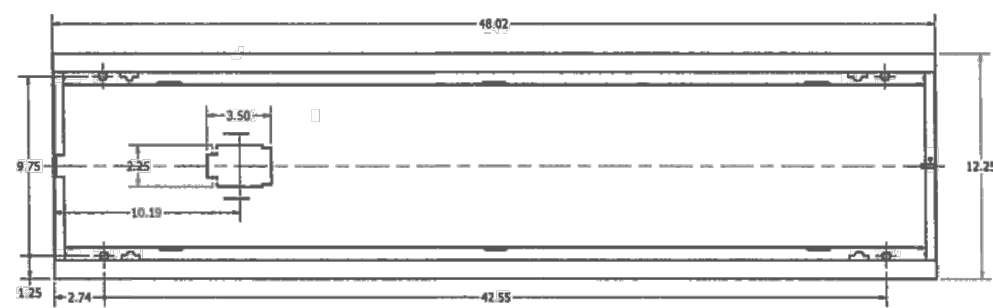
Use when power will be provided by a standard grounded plug (120V only).
UC-PLG-60

Questions/Support | 800-789-3810 | quotes@kelvix.com

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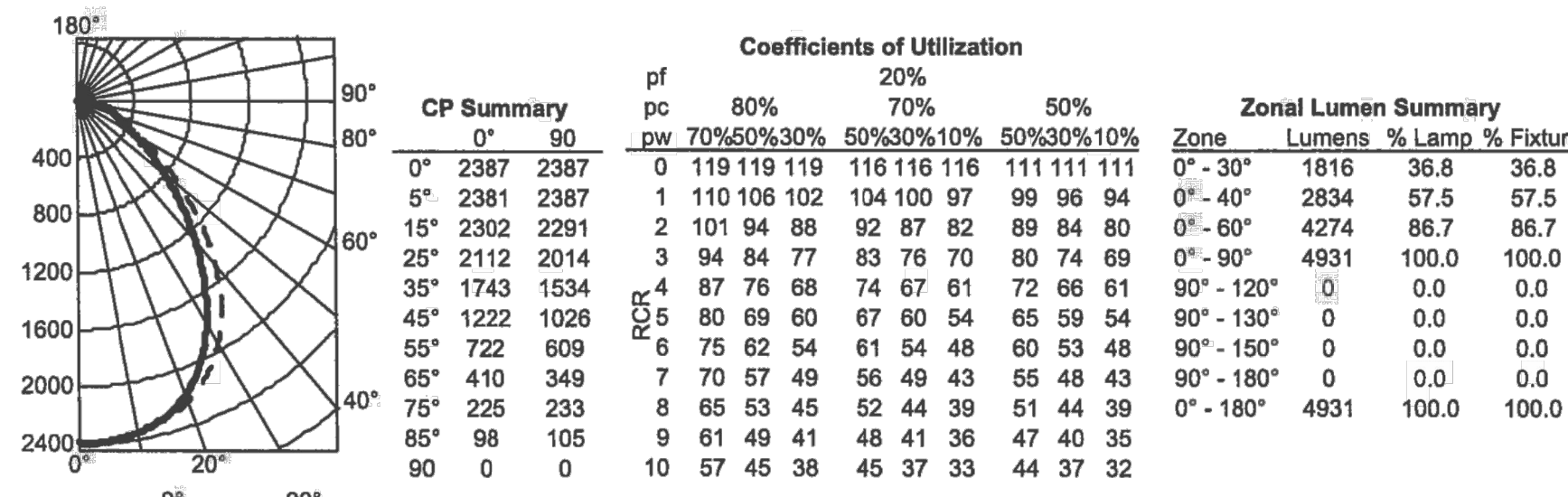
TLX4 Surface Mount LED Lighting 1' x 4'

MOUNTING DATA



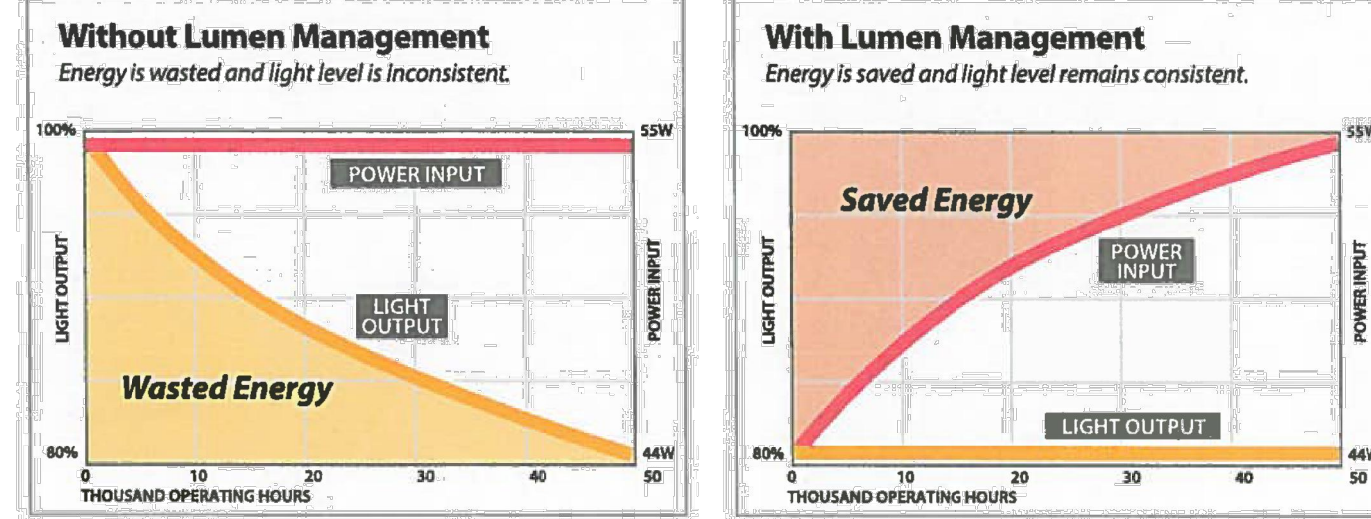
PHOTOMETRICS

TLX4 40L FW A12 EZ1 LPB40, 4931.1 delivered lumens, test no. LTL26929F34, tested in accordance to IESNA LM-79.



Constant Lumen Management

Enabled by the embedded nLight control, the TLX4 actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referenced to an lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.



LITHONIA LIGHTING
LED: One Lithonia Way, Conyers, GA 30012 Phone: 1-800-705-SERV (7378) www.lithonia.com © 2013-2022 Acuity Brands Lighting, Inc. All rights reserved. Rev. 07/07/21



FEATURES & SPECIFICATIONS

INTENDED USE — The T Series LED surface mount combines digital lighting and control technologies with a high-performance optical system to deliver general ambient lighting for many applications such as schools, offices and hospitals. High-efficacy light engine delivers long life and excellent color, ensuring a superior quality light installation that is highly efficient and sustainable. Certain airborne contaminants can diminish integrity of acrylic. [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

CONSTRUCTION — Designed exclusively for use with LED Smooth hemmed sides and smooth, inward formed end flanges for safe handling. Lightweight fixture allows safe, easy installation. Standard steel door frame has superior structural integrity with premium extruded appearance and precision flush embossed corners. Steel latches provide easy, secure door closure. Superior mechanical light seal requires no foam gasketing. Integral T-bar clips secure fixture to T-bar system. Housing formed from cold-rolled steel. Acrylic shielding material 100% UV stabilized. No asbestos is used in this product.

Finish: Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with high-gloss, baked white enamel. Polyester powder-paint after fabrication option available.

OPTICS — Standard pattern #19 lens, 0.156" thick with highly transmissive overlay, is standard for superior brightness control. Overlay is 0.040" thick. Other lenses are available.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior level and quality of illumination for extended service life. 90% LED lumen maintenance at 60,000 hours (L90/60,000). Standard nLight™ embedded controls continuously monitor system performance, allow for constant lumen management/compression function, facilitate simple "plug-and-play" network and controls upgrading via CAT5 cable. LED driver delivers full-range dimming from 0-10V control signal. Ballast disconnect is provided where required to comply with US and Canadian codes.

INSTALLATION — Surface mount. Drivers and internal components are accessible from floor. LED boards include plug-in connectors for easy replacement or servicing. Suitable for damp location.

LISTINGS — CSA certified to US and Canadian standards.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Notes: 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.

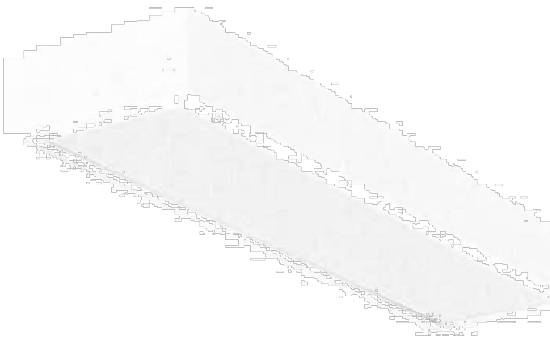
Specifications subject to change without notice.

Catalog Number: _____
Notes: _____
Type: _____

T SERIES SURFACE MOUNT

TLX4

1' x 4' LED



Specifications

Length: 48 (121.9)

Width: 12-1/4 (31.1)

Depth: 4-3/4 (12.1)

All dimensions are inches (centimeters) unless otherwise indicated.

Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

• All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency

• This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background

• This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

TLX4 Surface Mount LED Lighting 1' x 4'



A+ Capable options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. Example: TLX4 40L FW A12 EZ1 LPB35 N80

Series	Lumens ¹	Door	Lens	Voltage	Driver
TLX4 Surface LED Test	20L 2000 lumens 30L 3000 lumens 40L 4000 lumens 48L 4800 lumens 60L 6000 lumens	FW Flush aluminum, white RW Regressed aluminum, white	A12 #12 pattern acrylic A19 #19 pattern acrylic, 0.156" thick MWS Matte white, 0.040" thick MPL Micro prism SWL Satin white	(blank) MVOLT (120-277) 347 347 ²	EZ1 eidoLED dim to 1% (0-10 volt dimming) EZ2 eidoLED dim to 1% (0-10 volt dimming) GZ1 Dim to 1% (0-10V dimming) ³ GZ10 Dim to 10% (0-10V dimming) ³ EDB eidoLED DALI ⁴ SLD Step-level dimming ⁴

Color temperature	Control	Options
LPB35 3000 K	(blank) No controls	ELTL 700 nominal lumen battery pack ⁵
LPB35 3500 K	N80 nLight with 80% (L80) lumen management	EL14L 1400 nominal lumen battery pack ⁵
LPB40 4000 K	N80EMC nLight with 80% (L80) lumen management for use with generator supply EM power	E10WLEP EM Self-Diagnostic battery packs, 10W Constant Power, Certified in CA Title 20 MAEDBS ⁵
LPB50 5000 K	N100 nLight without lumen management N100EMC nLight without lumen management for use with generator supply EM power	PAF Paint after fabrication

- Notes
- 1 Approximate lumens output.
 - 2 Not available with ELTL or EL14L battery packs or SLD driver.
 - 3 GZ1, GZ10 drivers not available with any Controls option(s).
 - 4 Not available with N80, N80EMC, N100, or N100EMC.
 - 5 Not available for 40L or 60L options.

Performance Data

Lumen	Package	Lumens	Input Watts	LPW
20L	LPB30	2,212.5	21	105.4
20L	LPB35	2,259.9	21	107.6
20L	LPB40	2,275.7	21	108.4
20L	LPB50	2,354.8	21	112.1
30L	LPB30	3,143.5	30	104.8
30L	LPB35	3,211.3	30	107.0
30L	LPB40	3,339.9	30	107.8
30L	LPB50	3,346.9	30	111.6
40L	LPB30	3,991.0	39	102.3
40L	LPB35	4,076.9	39	104.5
40L	LPB40	4,106.3	39	105.3
40L	LPB50	4,240.6	39	108.9
48L	LPB30	4,793.3	47	102.0
48L	LPB35	4,897.2	47	104.2
48L	LPB40	4,931.1	47	104.9
48L	LPB50	5,105.2	47	108.6
60L	LPB30	5,426.1	55	98.7
60L	LPB35	5,541.3	55	100.8
60L	LPB40	5,582.0	55	101.5
60L	LPB50	5,736.3	55	105.0

LITHONIA LIGHTING
LED: One Lithonia Way, Conyers, GA 30012 Phone: 1-800-705-SERV (7378) www.lithonia.com © 2013-2022 Acuity Brands Lighting, Inc. All rights reserved. Rev. 07/07/22



UniCab™

UNIVERSAL CABINET LIGHT | 120-277 VOLT
0-10V DIMMING | ADJUSTABLE KELVIN

Fixture Type: _____
Project: _____
Location: _____



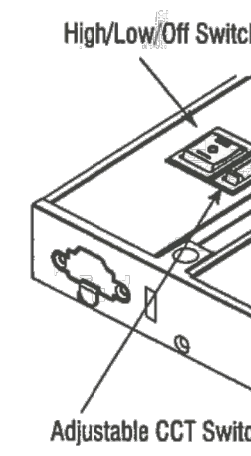
MODEL:	UC40	UC32	UC22	UC14	UC9
WATTS	20W	15W	12W	8W	5W
LUMENS	1,060 lm	810 lm	610 lm	360 lm	200 lm
LENGTH	40 in	32 in	22 in	14 in	9 in

PRODUCT FEATURES

- 120/277V
- 0-10V Dimming
- Adjustable Kelvin (4000K, 3500K, and 3000K)
- Integrated High/Low/Off Switch
- Aluminum Housing
- Protections: Short Circuit/Over Current/Over Voltage / No load
- Soft Start Power Supply Feature
- 50,000 Hour Life
- Fixtures Connect in Series (Coupler Included)

SPECIFICATIONS

Input Voltage	120-277V/50-60HZ
Beam Angle	120°
CRI	90+
Dimensions	4.063" x 1" x Variable
Dimming Options	0-10V, High/Low Switch
Max Run Length	500W per Power Feed
Power Factor	95% @ 120V, 85% @ 277V
Use Temp Range	-4°F (-20°C) to 122°F (50°C)
Diode	2835



Conforms to ANSI/UL Standard 1598
Certified to CAN/CSA Standard C22.2 No. 9

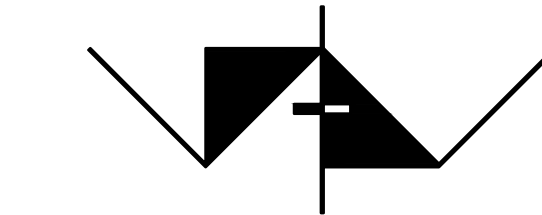


Questions/Support | 800-789-3810 | quotes@kelvix.com

051222RY

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123218 INC:
REVIEWED FOR:
SS ☒ FLS ☒ ACS ☒
DATE: 07/11/2024



AMADOR WHITTLE
ARCHITECTS, INC.

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3536 (818) 674-0071

Ventura County Community College

PROJECT TITLE
MOORPARK COLLEGE
ADMINISTRATION
BUILDING RENOVATION

7075 CAMPUS ROAD
MOORPARK, CA 91320

CONSULTANT

LUCCI & ASSOCIATES, INC.
CONSULTING ELECTRICAL ENGINEERS

3251 CORTE MALPASO, #511
CAMARILLO, CA 93012-8094
(805) 389-6520 FAX (805) 389-6519

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STAMPS/SEALS



12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:

LIGHTING
FIXTURE TYPE
'F8' CUT SHEETS

PROJECT NO: 21-MPC-040 PROJECT ARCH: _____
DRAWN: LK/DS CHECKED: _____
SHEET NUMBER: _____

E300D

DATE: 12/08/23 SHEET: _____ OF _____

DATE: 18 December 2023
DRAWING FILENAME: 21-375E300E
DRAFTER: CW01

CLX LED Linear

Lumen Package	UGR Values of CLX L36 @ 80CRI and 3500K UGR (70% 50% 20% reflectance using a 4 ft x 8 ft room size)							
	FDL		RDL		WDL		L/LENS	
	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise
2250LM SEF	21.4	24.1	19.7	22.6	17.7	21.6	25.2	25.4
3000LM SEF	22.3	25	20.6	26.5	18.6	22.5	26.2	26.5
3750LM SEF	23.2	25.9	21.4	27.3	19.5	23.4	27	27.2
4500LM SEF	24.2	26.9	22.5	28.4	20.5	24.4	28	28.2
4750LM SEF	25.1	27.8	23.3	29.2	21.4	25.3	28.9	29
5250LM SEF	25.4	28.1	23.6	29.5	21.7	25.6	29.2	29.4
5750LM SEF	25.7	28.4	23.9	29.8	22.0	25.9	29.5	29.7
6000LM SEF	26	28.7	24.2	30.1	22.3	26.2	29.8	30
6500LM SEF	26.3	29	24.5	30.4	22.6	26.5	30.1	30.3
7000LM SEF	26.6	29.3	24.8	30.7	22.9	26.8	30.4	30.6
7500LM SEF	26.9	29.6	25.1	31	23.2	27.1	30.7	30.9
8000LM SEF	27.2	29.9	25.4	31.3	23.5	27.4	31	31.2
8500LM SEF	27.5	30.2	25.7	31.6	23.8	27.7	31.3	31.5
9000LM SEF	27.8	30.5	26	31.9	24.1	28	31.6	31.8
9500LM SEF	28.1	30.8	26.3	32.2	24.4	28.3	31.9	32.1
10000LM SEF	28.4	31.1	26.6	32.5	24.7	28.6	32.2	32.4
10500LM SEF	28.7	31.4	26.9	32.8	25	28.9	32.5	32.7
11000LM SEF	29	31.7	27.2	33.1	25.3	29.2	32.8	33
11500LM SEF	29.3	32	27.5	33.4	25.6	29.5	33.1	33.3
12000LM SEF	29.6	32.3	27.8	33.7	25.9	29.8	33.4	33.6
12500LM SEF	29.9	32.6	28.1	34	26.2	30.1	33.7	33.9
13000LM SEF	30.2	32.9	28.4	34.3	26.5	30.4	34	34.2
13500LM SEF	30.5	33.2	28.7	34.6	26.8	30.7	34.3	34.5
14000LM SEF	30.8	33.5	29	34.9	27.1	31	34.6	34.8
14500LM SEF	31.1	33.8	29.3	35.2	27.4	31.3	34.9	35.1
15000LM SEF	31.4	34.1	29.6	35.5	27.7	31.6	35.2	35.4
15500LM SEF	31.7	34.4	29.9	35.8	28	31.9	35.5	35.7
16000LM SEF	32	34.7	30.2	36.1	28.3	32.2	35.8	36
16500LM SEF	32.3	35	30.5	36.4	28.6	32.5	36.1	36.3
17000LM SEF	32.6	35.3	30.8	36.7	28.9	32.8	36.4	36.6
17500LM SEF	32.9	35.6	31.1	37	29.2	33.1	36.7	36.9
18000LM SEF	33.2	35.9	31.4	37.3	29.5	33.4	37	37.2
18500LM SEF	33.5	36.2	31.7	37.6	29.8	33.7	37.3	37.5
19000LM SEF	33.8	36.5	32	37.9	30.1	34	37.6	37.8
19500LM SEF	34.1	36.8	32.3	38.2	30.4	34.3	37.9	38.1
20000LM SEF	34.4	37.1	32.6	38.5	30.7	34.6	38.2	38.4
20500LM SEF	34.7	37.4	32.9	38.8	31	34.9	38.5	38.7
21000LM SEF	35	37.7	33.2	39.1	31.3	35.2	38.8	39
21500LM SEF	35.3	38	33.5	39.4	31.6	35.5	39.1	39.3
22000LM SEF	35.6	38.3	33.8	39.7	31.9	35.8	39.4	39.6
22500LM SEF	35.9	38.6	34.1	40	32.2	36.1	39.7	39.9
23000LM SEF	36.2	38.9	34.4	40.3	32.5	36.4	40	40.2
23500LM SEF	36.5	39.2	34.7	40.6	32.8	36.7	40.3	40.5
24000LM SEF	36.8	39.5	35	40.9	33.1	37	40.6	40.8
24500LM SEF	37.1	39.8	35.3	41.2	33.4	37.3	40.9	41.1
25000LM SEF	37.4	40.1	35.6	41.5	33.7	37.6	41.2	41.4
25500LM SEF	37.7	40.4	35.9	41.8	34	37.9	41.5	41.7
26000LM SEF	38	40.7	36.2	42.1	34.3	38.2	41.8	42
26500LM SEF	38.3	41	36.5	42.4	34.6	38.5	42.1	42.3
27000LM SEF	38.6	41.3	36.8	42.7	34.9	38.8	42.4	42.6
27500LM SEF	38.9	41.6	37.1	43	35.2	39.1	42.7	42.9
28000LM SEF	39.2	41.9	37.4	43.3	35.5	39.4	43	43.2
28500LM SEF	39.5	42.2	37.7	43.6	35.8	39.7	43.3	43.5
29000LM SEF	39.8	42.5	38	43.9	36.1	40	43.6	43.8
29500LM SEF	40.1	42.8	38.3	44.2	36.4	40.3	43.9	44.1
30000LM SEF	40.4	43.1	38.6	44.5	36.7	40.6	44.2	44.4
30500LM SEF	40.7	43.4	38.9	44.8	37	40.9	44.5	44.7
31000LM SEF	41	43.7	39.2	45.1	37.3	41.2	44.8	45
31500LM SEF	41.3	44	39.5	45.4	37.6	41.5	45.1	45.3
32000LM SEF	41.6	44.3	39.8	45.7	37.9	41.8	45.4	45.6
32500LM SEF	41.9	44.6	40.1	46	38.2	42.1	45.7	45.9
33000LM SEF	42.2	44.9	40.4	46.3	38.5	42.4	46	46.2
33500LM SEF	42.5	45.2	40.7	46.6	38.8	42.7	46.3	46.5
34000LM SEF	42.8	45.5	41	46.9	39.1	43	46.6	46.8
34500LM SEF	43.1	45.8	41.3	47.2	39.4	43.3	46.9	47.1
35000LM SEF	43.4	46.1	41.6	47.5	39.7	43.6	47.2	47.4
35500LM SEF	43.7	46.4	41.9	47.8	40	43.9	47.5	47.7
36000LM SEF	44	46.7	42.2	48.1	40.3	44.2	47.8	48
36500LM SEF	44.3	47	42.5	48.4	40.6	44.5	48.1	48.3
37000LM SEF	44.6	47.3	42.8	48.7	40.9	44.8	48.4	48.6
37500LM SEF	44.9	47.6	43.1	49	41.2	45.1	48.7	48.9
38000LM SEF	45.2	47.9	43.4	49.3	41.5	45.4	49	49.2
38500LM SEF	45.5	48.2	43.7	49.6	41.8	45.7	49.3	49.5
39000LM SEF	45.8	48.5	44	49.9	42.1	46	49.6	49.8
39500LM SEF	46.1	48.8	44.3	50.2	42.4	46.3	49.9	50.1
40000LM SEF	46.4	49.1	44.6	50.5	42.7	46.6	50.2	50.4
40500LM SEF	46.7	49.4	44.9	50.8	43	46.9	50.5	50.7
41000LM SEF	47	49.7	45.2	51.1	43.3	47.2	50.8	51
41500LM SEF	47.3	50	45.5	51.4	43.6	47.5	51.1	51.3
42000LM SEF	47.6	50.3	45.8	51.7	43.9	47.8	51.4	51.6
42500LM SEF	47.9	50.6	46.1	52	44.2	48.1	51.7	51.9
43000LM SEF	48.2	50.9	46.4	52.3	44.5	48.4	52	52.2
43500LM SEF	48.5	51.2	46.7	52.6	44.8	48.7	52.3	52.5
44000LM SEF	48.8	51.5	47	52.9	45.1	49	52.6	52.8
44500LM SEF	49.1	51.8	47.3	53.2	45.4	49.3	52.9	53.1
45000LM SEF	49.4	52.1	47.6	53.5	45.7	49.6	53.2	53.4
45500LM SEF	49.7	52.4	47.9	53.8	46	49.9	53.5	53.7
46000LM SEF	50	52.7	48.2	54.1	46.3	50.2	53.8	54
46500LM SEF	50.3	53	48.5	54.4	46.6	50.5	54.1	54.3
47000LM SEF	50.6	53.3	48.8	54.7	46.9	50.8	54.4	54.6
47500LM SEF	50.9	53.6	49.1	55	47.2	51.1	54.7	54.9
48000LM SEF	51.2	53.9	49.4	55.3	47.5	51.4	55	55.2
48500LM SEF	51.5	54.2	49.7	55.6	47.8	51.7	55.3	55.5
49000LM SEF	51.8	54.5	50	55.9	48.1	52	55.6	55.8
49500LM SEF	52.1	54.8	50.3	56.2	48.4	52.3	55.9	56.1
50000LM SEF	52.4	55.1	50.6	56.5	48.7	52.6	56.2	56.4
50500LM SEF	52.7	55.4	50.9	56.8	49	52.9	56.5	56.7
51000LM SEF	53	55.7	51.2	57.1	49.3	53.2	56.8	57
51500LM SEF	53.3	56	51.5	57.4	49.6	53.5	57.1	57.3
52000LM SEF	53.6	56.3	51.8	57.7	49.9	53.8	57.4	57.6
52500LM SEF	53.9	56.6	52.1	58	50.2	54.1	57.7	57.9
53000LM SEF	54.2	56.9	52.4	58.3	50.5	54.4	58	58.2
53500LM SEF	54.5	57.2	52.7	58.6	50.8	54.7	58.3	58.5
54000LM SEF	54.8	57.5	53	58.9	51.1	55	58.6	58.8
54500LM SEF	55.1	57.8	53.3	59.2	51.4	55.3	58.9	59.1
55000LM SEF	55.4	58.1	53.6	59.5	51.7	55.6	59.2	59.4
55500LM SEF	55.7	58.4	53.9	59.8	52	55.9	59.5	59.7
56000LM SEF	56	58.7	54.2	60.1	52.3	56.2	59.8	60
56500LM SEF	56.3	59	54.5	60.4	52.6	56.5	60.1	60.3
57000LM SEF	56.6	59.3	54.8	60.7	52.9	56.8	60.4	60.6
57500LM SEF	56.9	59.6	55.1	61	53.2	57.1	60.7	60.9
58000LM SEF	57.2	59.9	55.4	61.3	53.5	57.4	61	61.2
58500LM SEF	57.5	60.2	55.7	61.6	53.8	57.7	61.3	61.5
59000LM SEF	57.8	60.5	56	61.9	54.1	58	61.6	61.8
59500LM SEF	58.1	60.8	56.3	62.2	54.4	58.3	61.9	62.1
60000LM SEF	58.4	61.1	56.6	62.5	54.7	58.6	62.2	62.4
60500LM SEF	58.7	61.4	56.9	62.8	55	58.9	62.5	62.7
61000LM SEF	59	61.7	57.2	63.1	55.3	59.2	62.8	63
61500LM SEF	59.3	62	57.5	63.4	55.6	59.5	63.1	63.3
62000LM SEF	59.6	62.3	57.8	63.7	55.9	59.8	63.4	63.6
62500LM SEF	59.9	62.6	58.1	64	56.2	60.1	63.7	63.9
63000LM SEF	60.2	62.9	58.4	64.3	56.5	60.4	64	64.2
63500LM SEF	60.5	63.2	58.7	64.6	56.8	60.7	64.3	64.5
64000LM SEF	60.8	63.5	59	64.9	57.1	61	64.6	64.8
64500LM SEF	61.1	63.8	59.3	65.2	57.4	61.3	64.9	65.1
65000LM SEF	61.4	64.1	59.6	65.5	57.7	61.6	65.2	65.4
65500LM SEF	61.7	64.4	59.9	65.8	58	61.9	65.5	65.7
66000LM SEF	62	64.7	60.2	66.1	58.3	62.2	65.8	66
66500LM SEF	62.3	65	60.5	66.4	58.6	62.5	66.1	66.3
67000LM SEF	62.6	65.3	60.8	66.7	58.9	62.8	66.4	66.6
67500LM SEF	62.9	65.6	61.1	67	59.2	63.1	66.7	66.9
68000LM SEF	63.2	65.9	61.4	67.3	59.5	63.4	67	67.2
68500LM SEF	63.5	66.2	61.7	67.6	59.8	63.7	67.3	67.5
69000LM SEF	63.8	66.5	62	67.9	60.1	64	67.6	67.8
69500LM SEF	64.1	66.8	62.3	68.2	60.4	64.3	67.9	68.1
70000LM SEF	64.4	67.1	62.6	68.5	60.7	64.6	68.2	68.4
70500LM SEF	64.7	67.4	62.9	68.8	61	64.9	68.5	68.7
71000LM SEF	65	67.7	63.2	69.1	61.3	65.2	68.8	69
71500LM SEF	65.3	68	63.5					

TIME: 8:32 am
DATE: 18 December 2023
PATHNAME: G:\21\375\LEDSheets
DRAWING FILENAME: 21-375E00F
DRAFTER: CN01

MARK
ARCHITECTURAL
LIGHTING™

SLOT 4
Pendant Direct

SHIELDING, OPTICS & CONNECTORS

Direct Shielding

Direct Optics

Run Patterns, Corners and Junction

COMING SOON

MARK
ARCHITECTURAL
LIGHTING™

SLOT 4
Pendant Direct

MOST COMMON MOUNTING TYPES AND OPTIONS

Mounting Type

Mounting Options

Power Feed

Support

Mounting with Feed (SPSWIF)

Mounting with Dual Feed (SPSWIF)

Mounting Support (SPSWIS)

MCS Option

MARK
ARCHITECTURAL
LIGHTING™

SLOT 4
Pendant Direct

PHOTOMETRICS

EXPECTED LIFE: L80 @ 50,000 HOURS
CALCULATED LIFE: L80 @ 120,000 HOURS

CCT SCALING CHART

OPTICAL SCALING CHARTS

UGR CHART

MARK
ARCHITECTURAL
LIGHTING™

SLOT 4
Pendant Direct

LINEAR PLAN

Mark Lighting offers the ability to provide a continuous run plan to suit your requirements by optionally offering three different methods of configuration.

LLP - Linear Longest Possible

LCB - Linear Center Balanced

LSL - Linear Same Lengths

Total Run Length

Maximum Section Length

MARK
ARCHITECTURAL
LIGHTING™

SLOT 4
Pendant Direct

SPECIFICATIONS

TYPE: PROJECT: F17

FIXTURE PERFORMANCE

DIRECT DISTRIBUTION

DIFFUSERS/SHIELDING

DIMENSIONS

MARK
ARCHITECTURAL
LIGHTING™

SLOT 4
Pendant Direct

ORDERING

Example: S4PD LLP 32FT MSL8 90CR 35K 800LMF MINI FLL SCT MVOLT WHITZ FT F136A RDCY WHITCY WCRD

Switching

Control Input

Primary Sensor

Secondary Sensor

Tertiary Sensor

Mounting Type

Overall Suspension

Canopy Form

Canopy Color

Card Color

Options

LITHONIA LIGHTING

PRECISE COLLECTION

Edge-Lit Exit

LRP

LED LAMP

FEATURES & SPECIFICATIONS

INTERVIEW USE

CONSTRUCTION

RECESSED ROUGH-IN SECTION

OPTICS

Low energy consumption

Top Mount (TM)

LISTINGS

Emergency operation

Accessories

Notes

EMERGENCY

LRP Precise® LED Exit Signs

SPECIFICATIONS

Primary Circuit

Electrical Emergency

BATTERY

KEY FEATURES

Mounting

Directional Indicators

Sealed Nickel-Cadmium (4.2V)

Notes

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123218 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/11/2024

AMADOR WHITTLE
ARCHITECTS, INC.

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-5535, (618) 874-0071

Ventura County Community College

PROJECT TITLE
MOORPARK COLLEGE
ADMINISTRATION
BUILDING RENOVATION

7075 CAMPUS ROAD
MOORPARK, CA 91320

CONSULTANT
LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3251 CORTE MALPASO, #511
CAMARILLO, CA 93012-8094
(805) 389-6520 FAX (805) 389-6519

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
STATE OF CALIFORNIA
EXD. 06/30/2024
DATE

REGISTERED ARCHITECT
STATE OF CALIFORNIA
EXD. 06/30/2024
DATE

12/08/2023 - DSA RESUBMITTAL


SHEET TITLE:
LIGHTING
FIXTURE TYPE
'F11' & 'F17' CUT
SHEETS


E300F

DATE: 12/08/23 SHEET: OF

PROJECT NO: 21-MPC-040 PROJECT NO: 21-MPC-040
DRAWN: LK/DS CHECKED:
SHEET NUMBER:

DATE: 07/11/2024
TIME: 8:32 am
DATE: 18 December 2023
PATHNAME: G:\21\375\LEDSheets
DRAWING FILENAME: 21-375E00F
DRAFTER: CN01





Photometric Data Tables

Azalea - CLE174D-FGC (Full Class Chier)

Performance	System	State	Type	FCM												IES E-18-85			
				Lumen Output	Efficiency (lm/W)	U	B	U	B	Lumen Output	Efficiency (lm/W)	U	B	U	B	28K Hours	80K Hours	28K Hours	100K Hours
P10	22.8		T1A	2461	107	1	0	1	0	2461	114	1	0	1	0				
				2540	107	1	0	1	0	2540	117	1	0	1	0				
				2540	107	1	0	1	0	2460	109	1	0	1	0	0.95	0.95	0.97	0.97
				2540	107	1	0	1	0	2460	107	1	0	1	0				
				2540	107	1	0	1	0	2460	107	1	0	1	0				
				2540	107	1	0	1	0	2460	107	1	0	1	0				
				2540	107	1	0	1	0	2460	107	1	0	1	0				
				2540	107	1	0	1	0	2460	107	1	0	1	0				
				2540	107	1	0	1	0	2460	107	1	0	1	0				
				2540	107	1	0	1	0	2460	107	1	0	1	0				
P20	33.6		T1A	3547	108	1	0	1	0	3534	113	1	0	1	0				
				3618	108	1	0	1	0	3618	116	1	0	1	0				
				3618	108	1	0	1	0	3549	108	1	0	1	0	0.95	0.95	0.97	0.97
				3618	108	1	0	1	0	3549	108	1	0	1	0				
				3618	108	1	0	1	0	3549	108	1	0	1	0				
				3618	108	1	0	1	0	3549	108	1	0	1	0				
				3618	108	1	0	1	0	3549	108	1	0	1	0				
				3618	108	1	0	1	0	3549	108	1	0	1	0				
				3618	108	1	0	1	0	3549	108	1	0	1	0				
				3618	108	1	0	1	0	3549	108	1	0	1	0				
P30	43.8		T1A	4064	100	2	0	1	0	4708	107	2	0	1	0				
				4235	100	2	0	1	0	4235	107	2	0	1	0	0.95	0.95	0.97	0.97
				4235	100	2	0	1	0	4235	107	2	0	1	0				
				4235	100	2	0	1	0	4235	107	2	0	1	0				

Note: Actual performance may differ due to a number of factors and environmental conditions.
 All values are design or typical values, measured under laboratory conditions at 25°C.
 Specifications subject to change without notice.

PC Azalea

220W

220W

220W

5000K

5000K

1.75

1.75

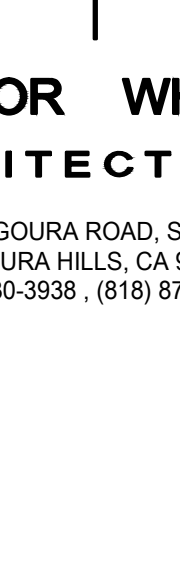


1.80

1.80

© 2015-2021 Acuity Brands Lighting, Inc.

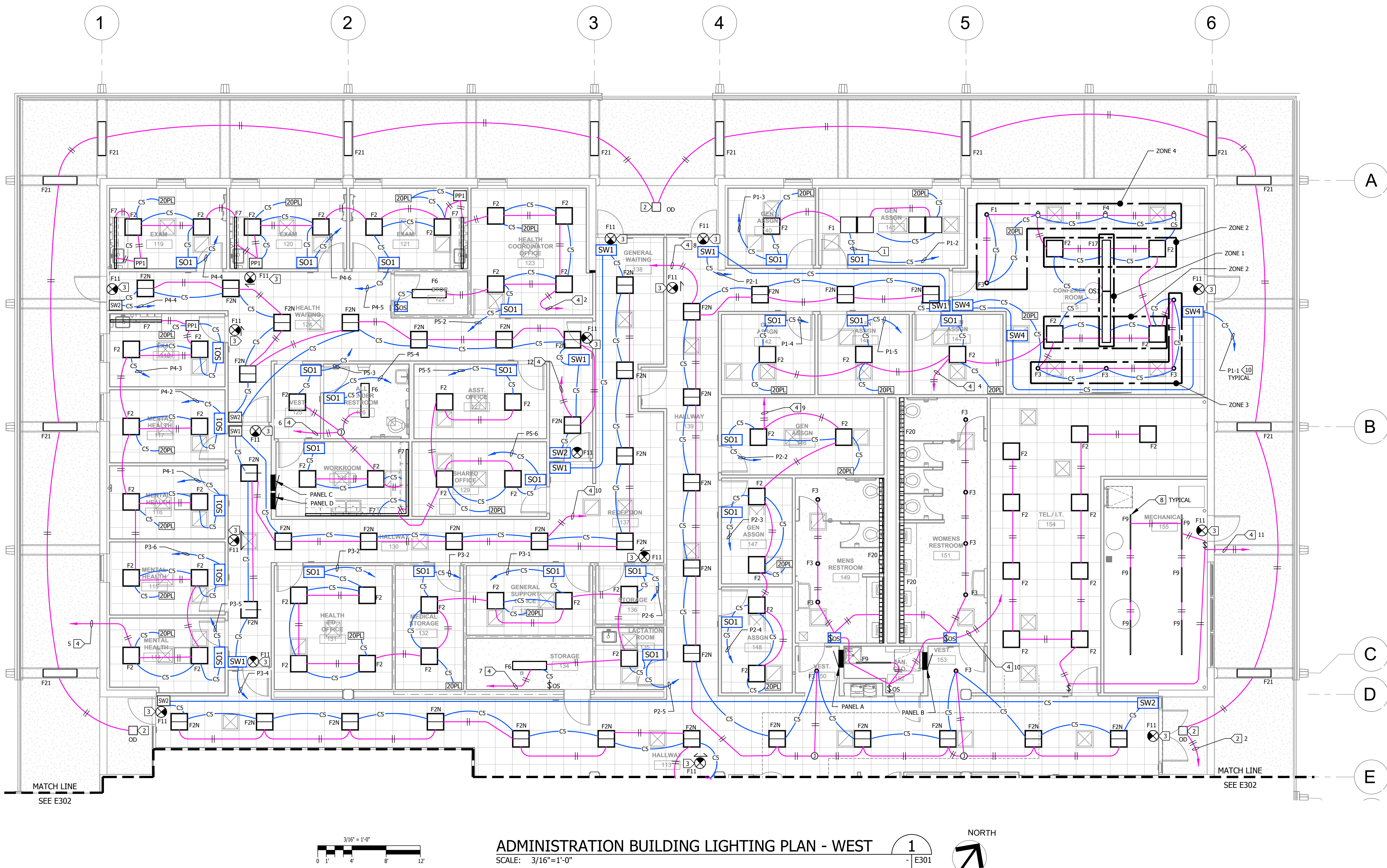
© Cyclone Lighting 2021-1

[illegible]

DIVISION OF THE STATE ARCHITECT			
<div style="border: 1px solid black; border-radius: 15px; padding: 10px; margin: 0 auto; width: 80%;">IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-123218 INC: REVIEWED FOR: SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/> DATE: 07/11/2024</div>			
			
AMADOR WHITTLE ARCHITECTS, INC.			
28328 AGOURA ROAD, SUITE 203 AGOURA HILLS, CA 91301 (805) 530-3938, (818) 874-0071			
Ventura County Community College			
PROJECT TITLE			
MOORPARK COLLEGE ADMINISTRATION BUILDING RENOVATION			
7075 STATE ROAD MOORPARK, CA 91320			
CONSULTANT			
LUCCI & ASSOCIATES INC. CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #611 CAMARILLO, CA 93012-8094 (805) 389-6520 FAX (805) 389-6519			
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STAMPS/SEALS			
 			
12/08/2023 - DSA RESUBMITTAL			
SHEET TITLE:			
LIGHTING FIXTURE TYPE 'F20', 'OD' & 'OT' CUT SHEETS			
PROJECT NO.: 21-MPC-040 PROJECT ARCH: SHEET: OF			
DRAWN: LK/DS CHECKED:			
SHEET NUMBER:			
E300G			
DATE: 12/08/23 SHEET: OF			

TIME: 8:32 am
DATE: 18 December 2023
PATHNAME: G:\21375\EL\Sheets
DRAWING FILENAME: 21-375E301
DRAFTER: CM01

Drawn by: CM01
Checked by: CM01
Date: 12/18/2023
Scale: 3/16" = 1'-0"
Sheet: 21-375E301
Project: 21-MPC-040
Drawing: LK/DS
Sheet Number: E301
Date: 12/08/23
Sheet: 1 of 1



ADMINISTRATION BUILDING LIGHTING PLAN - WEST
SCALE: 3/16"=1'-0"

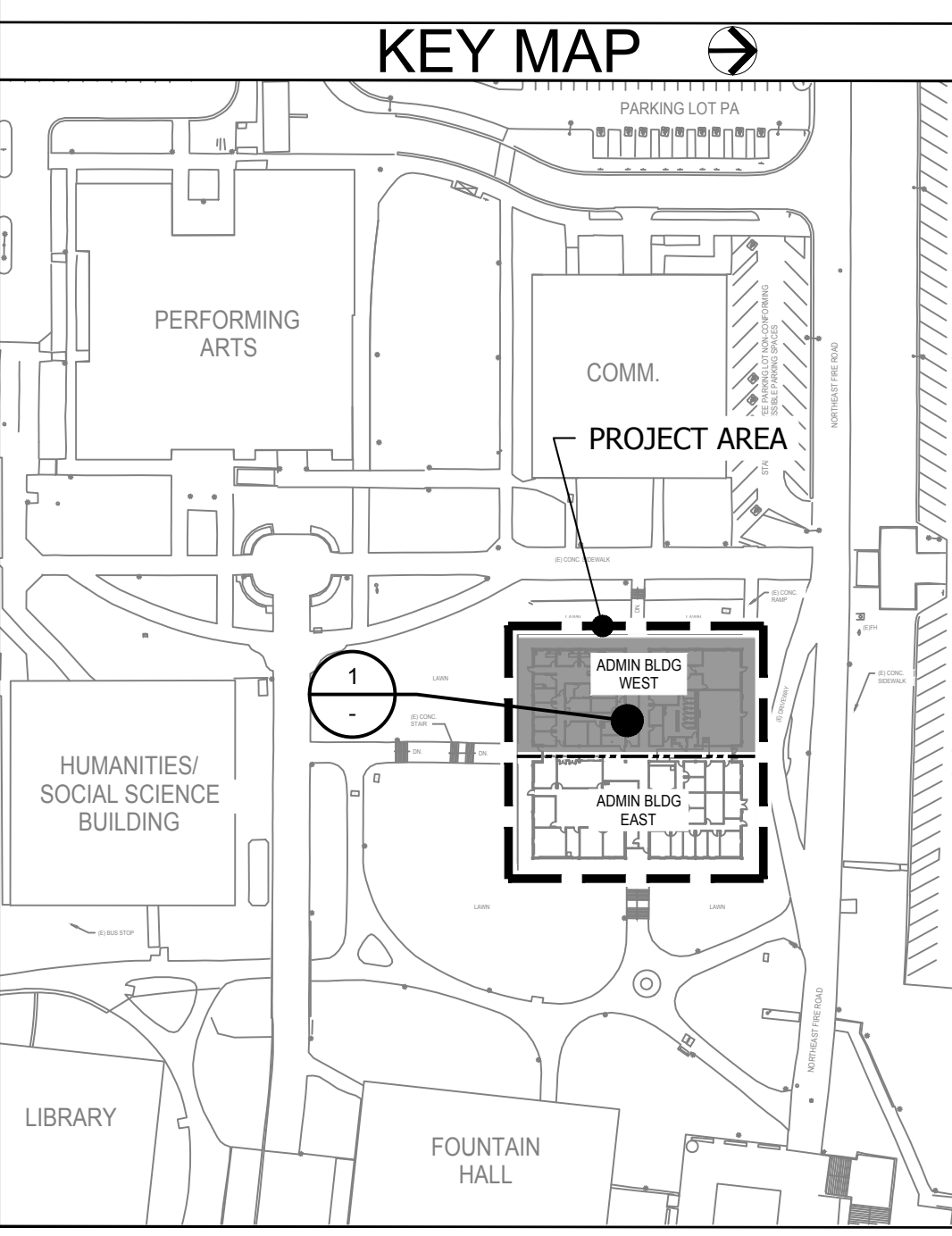
- SHEET NOTES:**
- CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
 - CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
 - CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
 - 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
 - ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
 - VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
 - MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
 - ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
 - VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
 - COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
 - PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
 - VERIFY AND PROVIDE JUNCTION BOXES, CONDUIT, DISCONNECT SWITCH, AND WIRING ASSOCIATED WITH SIGNAGE/GRAPHICS ON GRAPHICS/SIGNAGE DRAWINGS.
 - ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY DIMMER RACK, POWER LINK PANELBOARD, PHOTOCELL, TIMECLOCK, OR LIGHTING CONTROL RELAY SYSTEM UNLESS OTHERWISE NOTED.
 - ALL LIGHTING FEEDERS (FROM LIGHT FIXTURES TO DIMMER RACKS) SHALL BE STRANDED #10 AWG THIN MINIMUM WITH DEDICATED NEUTRALS FOR EACH CIRCUIT, NO SHARED NEUTRALS ARE PERMISSIBLE. DERATING OF CONDUCTORS SHALL BE PER NEC 300.5 FOR COMBINED HOMERUNS WHERE EACH NEUTRAL IS A CURRENT CARRYING CONDUCTOR.

- KEY NOTES:**
- PENDANT TO 9'-0"
 - CONNECT TO LIGHTING CONTROLLER ARP IN ELECTRICAL ROOM CIRCUIT ARP-1 (PANEL G - CIRCUIT 25).
 - EXIT LIGHT POWER, PANEL B-1 AS NOTED.
 - 3/4"C-2#12 & 1#12 GROUND TO PANEL B CIRCUITS AS NOTED.
 - NOT USED.
 - NOT USED.
 - NOT USED.
 - PENDANT MOUNT, RIGID PIPE 2'-6" FROM CEILING INSTALL EMT CONDUIT BETWEEN FIXTURES.
 - SURFACE MOUNT TO CEILING.
 - SEE E300A FOR BRIDGE GATEWAY SYSTEM.

THE ENTIRE BUILDING IS CONNECTED TO AN EMERGENCY GENERATOR BACK UP POWER. ALL LIGHTING WILL TURN ON AT 100% IF NORMAL POWER IS LOST

PROVIDE EMERGENCY AUTOMATICALLY ELECTRICAL ILLUMINATION (CBC 1008.3.2) IN EVENT OF POWER SUPPLY FAILURE IN ROOMS, SPACES AND BUILDING THAT REQUIRE TWO OR MORE MEANS OF EGRESS. IN SPACE: AISLES, CORRIDORS AND EXIT ACCESS STAIRWAYS AND RAMPS.

AN EMERGENCY ELECTRICAL SYSTEM (ENTIRE BUILDING IS ON EMERGENCY GENERATOR WHEN LOSS OF COMMERCIAL POWER OCCURS) SHALL AUTOMATICALLY ILLUMINATE ALL OF THE FOLLOWING AREAS: (CBC 1008.3.3)
1. ELECTRICAL EQUIPMENT ROOMS. (INCLUDED IN PROJECT)
2. FIRE COMMAND CENTERS. (NONE AT PROJECT)
3. FIRE PUMP ROOMS. (NONE AT PROJECT)
4. GENERATOR ROOMS. (NONE AT PROJECT)



DIVISION OF THE STATE ARCHITECT
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123218 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/11/2024

AMADOR WHITTLE ARCHITECTS, INC.
28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3536 (818) 674-0071

Ventura County Community College
PROJECT TITLE
MOORPARK COLLEGE ADMINISTRATION BUILDING RENOVATION

7075 CAMPUS ROAD
MOORPARK, CA 91320

CONSULTANT
LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3251 CORTE MALPASO, #511
CAMARILLO, CA 93012-8094
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12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:
ADMINISTRATION BUILDING LIGHTING PLAN - WEST

PROJECT NO.: 21-MPC-040 PROJECT ARCH: LK/DS
DRAWN: LK/DS CHECKED: LK/DS
SHEET NUMBER: E301
DATE: 12/08/23 SHEET: 1 OF 1

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IV. OF THE STATE ARCHITECT
PP: 03-123218 INC:
REVIEWED FOR
S ☒ FLS ☒ ACS ☒
DATE: 07/11/2024



County Community College

TITLE RYAN COLLEGE ADMINISTRATION BUILDING RENOVATION

CAMPUS ROAD
MARK, CA 91320

NT

ASSOCIATES INC.
ELECTRICAL ENGINEERS

CA 93012-8094
-6520 FAX (805) 389-6519

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ALS



2023 - DSA RESUBMITTAL

E:

ADMINISTRATION

BUILDING

LIGHTING PLAN -

T

21-MPC-040	PROJECT ARCH
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LK/DS	CHECKED:
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E302

2/08/23 SHEET: ____ OF ____

NOT 35" X 42", IT IS NOT FULL SIZE, SCALE ACCORDINGLY
21-375

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE AS ALL FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. EVIDENCE OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
4. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
6. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
12. PROVIDE CODE SPECIFIED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
13. VERIFY AND PROVIDE JUNCTION BOXES, CONDUIT, DISCONNECT SWITCH, AND WIRING ASSOCIATED WITH SIGNAGE/GRAPHICS ON GRAPHICS/SPECIFICATION DRAWINGS.
14. LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY DIMMER RACK, POWER LINK PANELBOARD, PHOTOCELL, TIMECLOCK, OR LIGHTING CONTROL RELAY SYSTEM UNLESS OTHERWISE NOTED.
15. ALL LIGHTING FEEDERS (FROM LIGHT FIXTURES TO DIMMER RACKS) SHALL BE STRANDED #10 AWG THIN MINIMUM WITH DEDICATED NEUTRALS FOR EACH CIRCUIT, NO SHARED NEUTRALS ARE PERMISSIBLE. DERATING OF CONDUITS SHALL BE PER NEC 300.5 FOR COMBINED HOMERUNS WHERE EACH NEUTRAL IS A CURRENT CARRYING CONDUCTOR.

KEY NOTES:

- | | |
|---|--|
| 1 | 3/4"C-2#12 & 1#12 GROUND & 2#14 (PURPLE & GRAY FOR 0-10V DIMMING). |
| 2 | CONNECT TO EXISTING ARP LIGHTING CIRCUIT #2 (PANEL G - 23). |
| 3 | EXIT LIGHT POWER , PANEL B-1. |
| 4 | 3/4"C-2#12 & 1#12 GROUND TO PANEL B CIRCUITS AS NOTED. |
| 4 | ZONE 1 AND 2 AS ALTERNATE FIXTURES. |

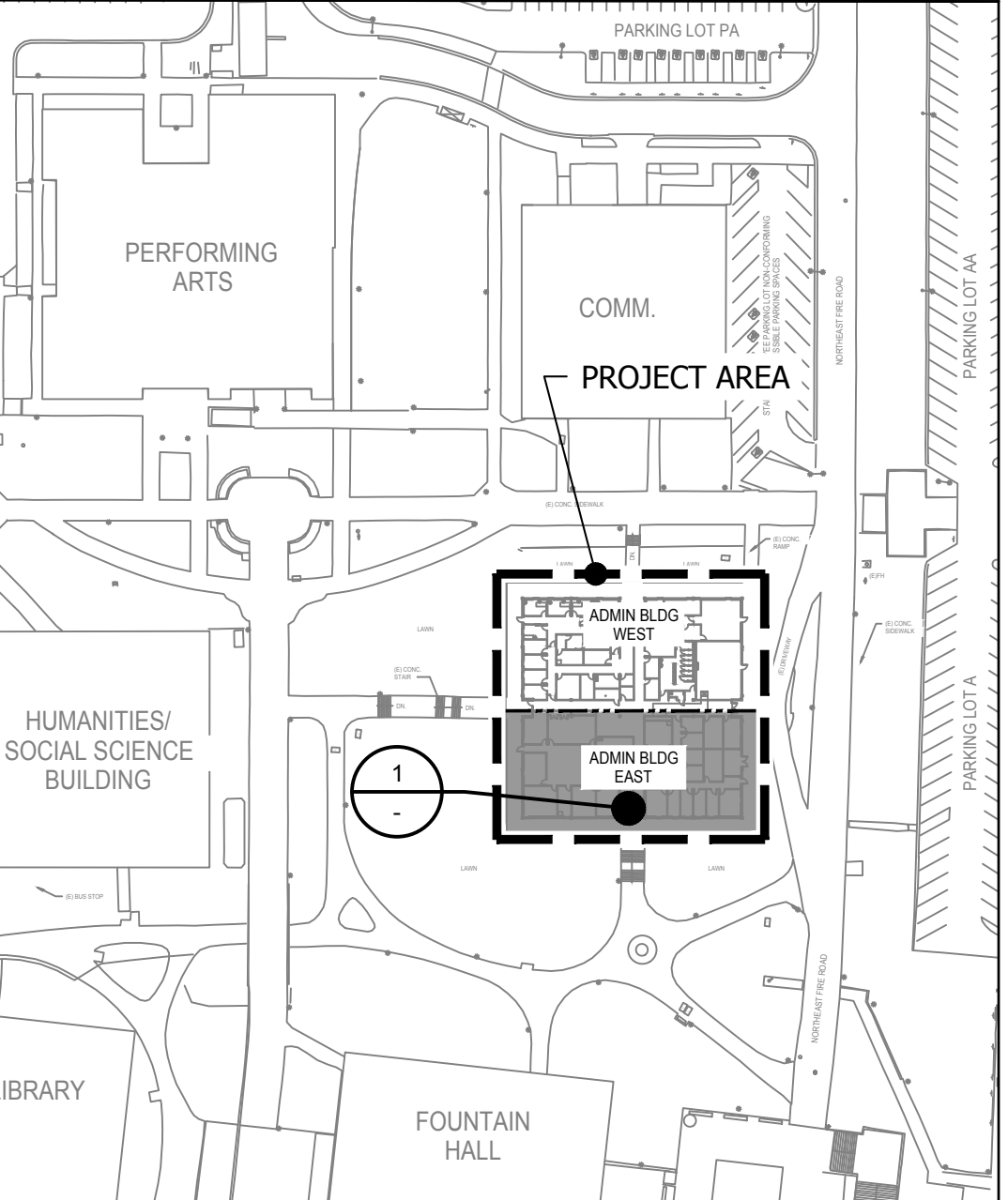
THE ENTIRE BUILDING IS CONNECTED TO AN EMERGENCY GENERATOR BACK UP POWER. ALL LIGHTING WILL TURN ON AT 100% IF NORMAL POWER IS LOST

PROVIDE EMERGENCY AUTOMATICALLY ELECTRICAL ILLUMINATION (CBC 1008.3.2) IN EVENT OF POWER SUPPLY FAILURE IN ROOMS, SPACES AND BUILDING THAT REQUIRE TWO OR MORE MEANS OF EGRESS. IN SPACE: AISLES, CORRIDORS AND EXIT ACCESS STAIRWAYS AND RAMPS.

AN EMERGENCY ELECTRICAL SYSTEM (ENTIRE BUILDING IS ON EMERGENCY GENERATOR WHEN LOSS OF COMMERCIAL POWER OCCURS) SHALL AUTOMATICALLY ILLUMINATE ALL OF THE FOLLOWING AREAS: (CBC 1008.3.3)

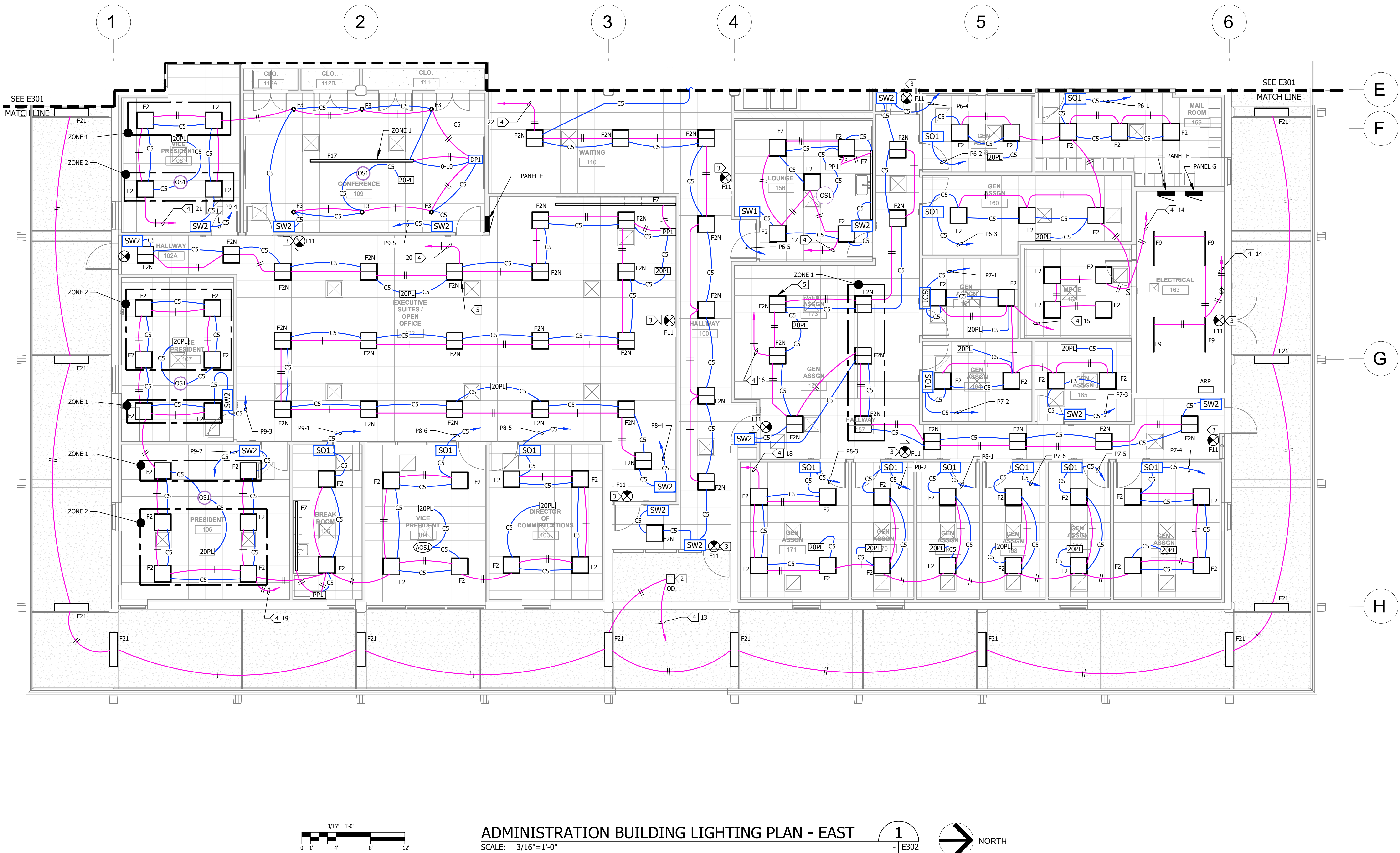
1. ELECTRICAL EQUIPMENT ROOMS. (INCLUDED IN PROJECT)
2. FIRE COMMAND CENTERS. (NONE AT PROJECT)
3. FIRE PUMP ROOMS. (NONE AT PROJECT)
4. GENERATOR ROOMS. (NONE AT PROJECT)

KEY MAP



2/08/23 SHEET: ____ OF ____
NOT 30" X 42", IT IS NOT FULL SIZE, SCALE ACCORDINGLY
21-375

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ADMINISTRATION BUILDING LIGHTING PLAN - EAST

SCALE: 3/16"=1'-0"

1

-	E302
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NORTH

TIME: 8:32 am

DATE: 18 December 2023

PATHNAME: G:\21\375\EL\Sheets

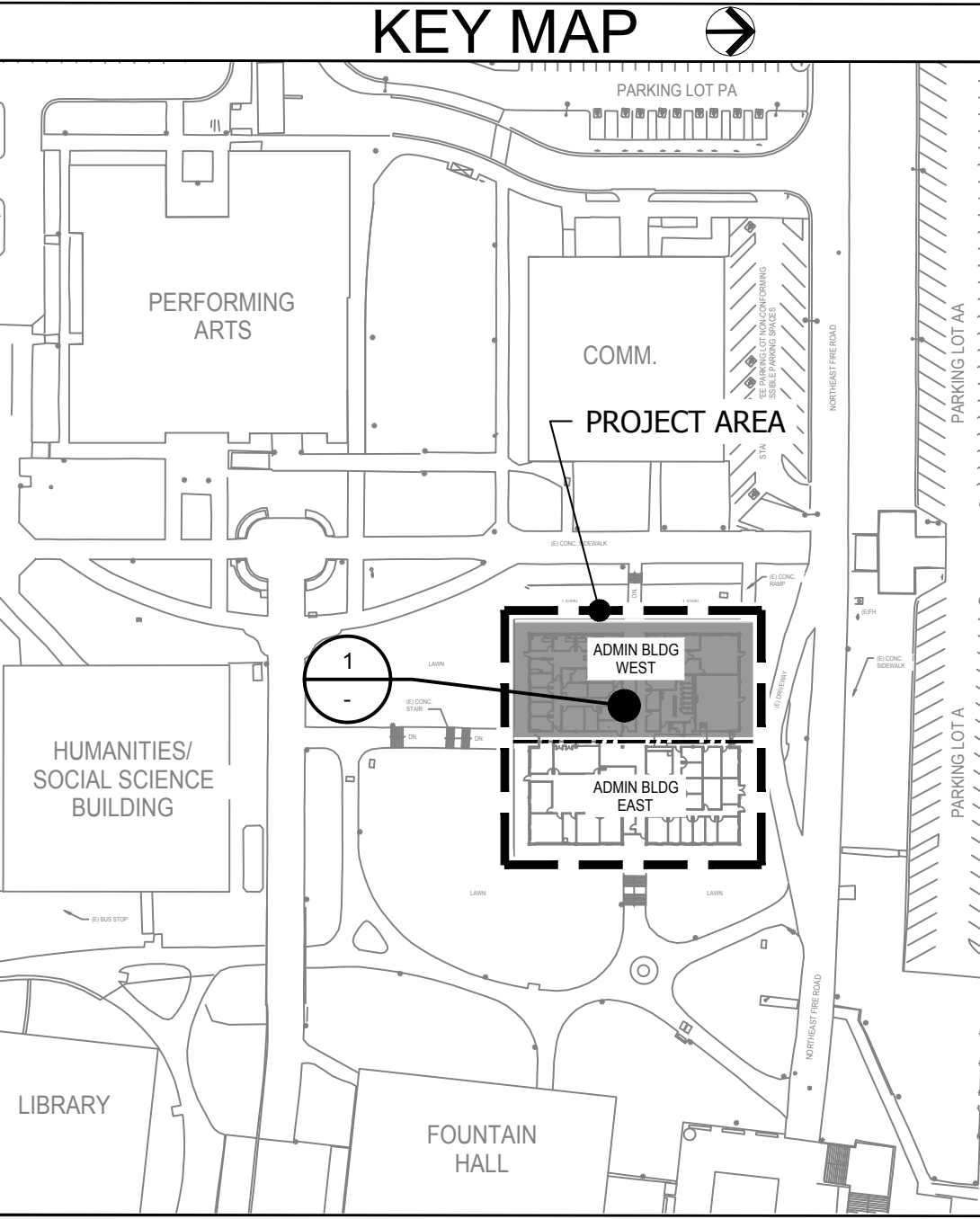
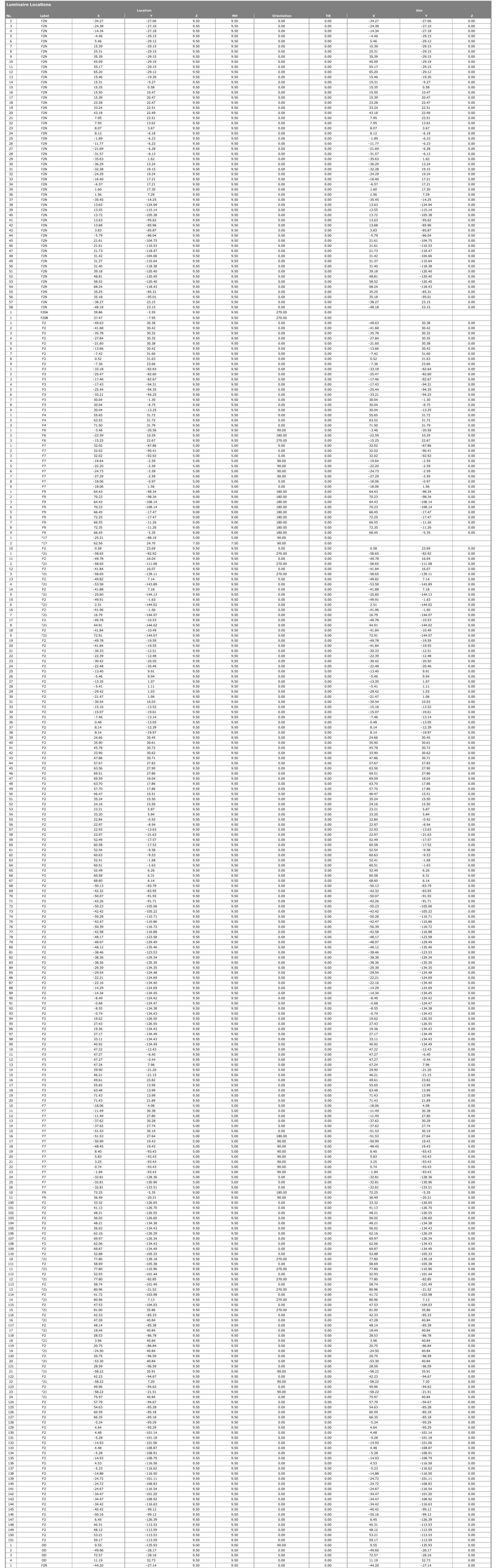
DRAWING FILENAME: 21-375E302

DRAFTER: CM01

[illegible]

FIXTURE SCHEDULE												
Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Source	Lumens Per LED	LLF	Input Power	Distribution	Notes
	F1		0	Lithonia Lighting	ENVX 2x4 HRG 4800LM 80CRI 35K E2T MVOLT CL80	Spec Ambient LED Traffer, 2x4, Hourglass, 4800 Nominal Lumens, 80 CRI, 3500K		4750	0.92	40.48	DIRECT, SC-0=1.28, SC-90=1.27	
	F2		150	Lithonia Lighting	ENVX 2x2 HRG 4000LM 80CRI 35K E2T MVOLT CL80	Spec Ambient LED Traffer, 2x2, Hourglass, 4000 Nominal Lumens, 80 CRI, 3500K		4113	0.92	36.28	DIRECT, SC-0=1.28, SC-90=1.27	
	F2N		58	Lithonia Lighting	ENVX 2x2 HRG 4000LM 80CRI 35K E2T MVOLT CL80 NES7	Spec Ambient LED Traffer, 2x2, Hourglass, 4000 Nominal Lumens, 80 CRI, 3500K		4113	0.92	36.28	DIRECT, SC-0=1.28, SC-90=1.27	
	F2S		0	Lithonia Lighting	ENVX 2x2 HRG 4000LM 80CRI 35K	Spec Ambient LED Traffer, 2x2, Hourglass, 4000 Nominal Lumens, 80 CRI, 3500K		4113	0.92	36.28	DIRECT, SC-0=1.28, SC-90=1.27	
	F3		20	Gotham Architectural Lighting	EVO 35/30 AR LSS MVOLT LS MVOLT E21 NLT N80	EVO 6IN ROUND, 80CRI, 3500K, 3000LM, SEMI-SPEC		3302	0.92	29.5	DIRECT, SC-0=0.91, SC-90=0.92	
	F4		3	Gotham Architectural Lighting	EVO6WV 35/25 AR LS MVOLT E21 NLT N80	EVO 6IN WYE, 80CRI, 3500K, 2500LM, CLEAR SPECULAR		2250	0.92	24.7	DIRECT, SC-0=0.75, SC-90=0.97	
	F5		0	Lithonia Lighting	EPANL 2x4 3000LM 80CRI 35K	EPANL 2x4, 3000 Nominal Lumens, 80 CRI, 3500K CCT		3141	0.92	28.51	DIRECT, SC-0=1.27, SC-90=1.27	
	F6		3	Lithonia Lighting	EPANL 1x4 3000LM 80CRI 35K-SURFACE KIT	EPANL 1x4, 3000 Nominal Lumens, 80CRI, 3500K CCT		2960	0.92	26.92	DIRECT, SC-0=1.27, SC-90=1.28	
	F7		26	KELVEX	UC32 3040 010V 120/277 WH	32" UNDERCABINET LIGHT		1187	0.92	15.893		
	F9		11	Lithonia Lighting	CLX L48 4000LM HEF WOL MVOLT 35K 80CRI WH	CLX LED linear 48", 4000 lumens, High efficiency, Less Inverse, Wide offfuse, General, MVOLT, 3500K, 80CRI		3941	0.92	25.5429	SEMI-DIRECT, SC-0=1.21, SC-90=1.18	
	F17		2	Mark Architectural Lighting	SAPD LSL 13FT MSL4 80CRI 35K 1000LMF WOL FLA 35 MVOLT WHIT FLIGHT F2/3A RECY SWITCH RECYD	Slk 4 Surface Direct 4FT 80CRI 35K 1000LMF Lambertian Flush Lens		3890	0.92	95.55	DIRECT, SC-0=1.21, SC-90=1.22	
	F20A		1	Focal Point, LLC	F5M4R6-XXX-FL2-625F-Seem 4 LED Perimeter 25K-XX-XXX-XXX-XXX-XXX WH-20FT		3500K 80CRI LED	2239	0.92	163.1		
	F20B		1	Focal Point, LLC	F5M4R6-XXX-FL2-625F-Seem 4 LED Perimeter 25K-XX-XXX-XXX-XXX-XXX WH-20FT		3500K 80CRI LED	2239	0.92	116.5		
	F21		24	Lithonia Lighting	BLTR 30L ADSMT LPS35	BLTR 1x4, 3000 NOMINAL LUMENS, Curved Smooth Lens with Trim Rings 3500K CCT, 90CRI		2482	0.92	22.63	DIRECT, SC-0=1.19, SC-90=1.31	
	OD		4	Kenall	MS15CL-PP-MW-25L35K-MD15CL Series -OCC-OV		Kenall	18	0.92	29.4		

STATISTICS							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	UG
CONFERENCE RM 109	+	57.4 fc	103.5 fc	24.7 fc	4.2:1	2.3:1	2.2
CONFERENCE ROOM 145	+	85.4 fc	142.7 fc	46.3 fc	3.1:1	1.8:1	1.9
DIRECTOR OF COMMUNICATIONS 105	+	43.5 fc	44.6 fc	42.3 fc	1.1:1	1.0:1	1.0
ELECTRICAL 163	+	36.1 fc	42.6 fc	26.0 fc	1.6:1	1.4:1	1.5
EXAM 118	+	49.5 fc	89.3 fc	38.1 fc	2.3:1	1.3:1	2.1
EXAM 119	+	46.8 fc	73.3 fc	37.6 fc	1.9:1	1.2:1	1.9
EXTERIOR READER- WEST	+	6.2 fc	11.2 fc	2.0 fc	5.6:1	3.1:1	4.5
GEN ASSIGN 141	+	51.7 fc	56.5 fc	43.7 fc	1.3:1	1.2:1	1.3
GEN ASSIGN 143	+	21.5 fc	28.0 fc	17.9 fc	1.6:1	1.2:1	1.5
GEN ASSIGN 146	+	28.5 fc	33.0 fc	23.7 fc	1.4:1	1.2:1	1.3
GEN ASSIGN 160	+	35.7 fc	39.4 fc	29.9 fc	1.3:1	1.2:1	1.2
GEN ASSIGN 170	+	34.8 fc	39.1 fc	30.4 fc	1.3:1	1.1:1	1.2
GEN ASSIGN 171	+	47.9 fc	52.3 fc	42.8 fc	1.2:1	1.1:1	1.2
GEN ASSIGN 172	+	42.6 fc	55.0 fc	32.7 fc	1.7:1	1.3:1	1.3
GENDER RESTROOM 126	+	13.4 fc	13.5 fc	13.3 fc	1.0:1	1.0:1	1.0
GENERAL SUPPORT 133	+	28.3 fc	29.2 fc	27.5 fc	1.1:1	1.0:1	1.1
GENERAL WAITING 138	+	26.9 fc	24.8 fc	10.6 fc	3.3:1	2.5:1	2.8
HALLWAY 139	+	27.5 fc	33.2 fc	13.1 fc	2.5:1	2.1:1	2.0
HEALTH COORDINATOR 123	+	46.8 fc	50.5 fc	42.7 fc	1.2:1	1.1:1	1.2
HEALTH ED 131	+	46.8 fc	50.4 fc	42.0 fc	1.2:1	1.1:1	1.2
HEALTH WAITING 124	+	33.0 fc	41.7 fc	23.2 fc	1.8:1	1.4:1	1.6
LOUNGE 156	+	50.1 fc	96.5 fc	37.0 fc	2.6:1	1.4:1	2.0
MAIL ROOM 159	+	31.6 fc	36.6 fc	24.7 fc	1.5:1	1.3:1	1.3
MECHANICAL 155	+	47.3 fc	62.3 fc	31.3 fc	2.0:1	1.5:1	1.5
MENS RESTROOM 149	+	59.2 fc	79.2 fc	41.0 fc	1.9:1	1.4:1	1.6
MENTAL HEALTH 117	+	37.1 fc	38.0 fc	36.5 fc	1.0:1	1.0:1	1.0
MPGE 162	+	72.2 fc	79.5 fc	68.2 fc	1.2:1	1.1:1	1.2
OPEN OFFICE SUITES 102	+	49.9 fc	124.8 fc	22.6 fc	5.5:1	2.2:1	2.2
PRESIDENT 106	+	50.3 fc	60.4 fc	41.1 fc	1.5:1	1.2:1	1.3
STORAGE 122	+	16.4 fc	16.7 fc	16.0 fc	1.0:1	1.0:1	1.0
STORAGE 136	+	21.1 fc	21.4 fc	20.8 fc	1.0:1	1.0:1	1.0
TEL/IT	+	41.1 fc	50.8 fc	19.7 fc	2.6:1	2.1:1	1.4
VICE PRESIDENT	+	60.6 fc	70.5 fc	49.5 fc	1.4:1	1.2:1	1.3
VICE PRESIDENT 104	+	42.8 fc	43.4 fc	42.2 fc	1.0:1	1.0:1	1.0
VICE PRESIDENT 108	+	42.3 fc	51.0 fc	18.4 fc	2.8:1	2.3:1	2.4
WAITING 110	+	24.0 fc	30.2 fc	14.2 fc	2.1:1	1.7:1	1.4
WOMENS RESTROOM 151	+	63.2 fc	89.2 fc	39.1 fc	2.3:1	1.6:1	1.9
WORKROOM 128	+	57.8 fc	85.6 fc	33.8 fc	2.5:1	1.7:1	1.6
BREAK ROOM 105	+	49.8 fc	81.9 fc	34.3 fc	2.7:1	1.5:1	2.5



DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123218 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/11/2024

AMADOR WHITTLE
ARCHITECTS, INC.
28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3536, (618) 674-0071

Ventura County Community College

PROJECT TITLE
**MOORPARK COLLEGE
ADMINISTRATION
BUILDING RENOVATION**

7075 CAMPUS ROAD
MOORPARK, CA 91320

CONSULTANT
LUCCI & ASSOCIATES, INC.
CONSULTING ELECTRICAL ENGINEERS
3251 CORTE MALPASO, #511
CAMARILLO, CA 93012-8094
(805) 389-6520 FAX (805) 389-6519

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STAMPS/SEALS

12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:
**ADMINISTRATION
BUILDING EM AND
NORMAL
PHOTOMETRIC
PLAN - WEST**

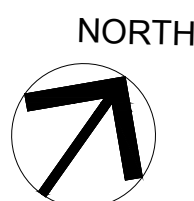
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E303

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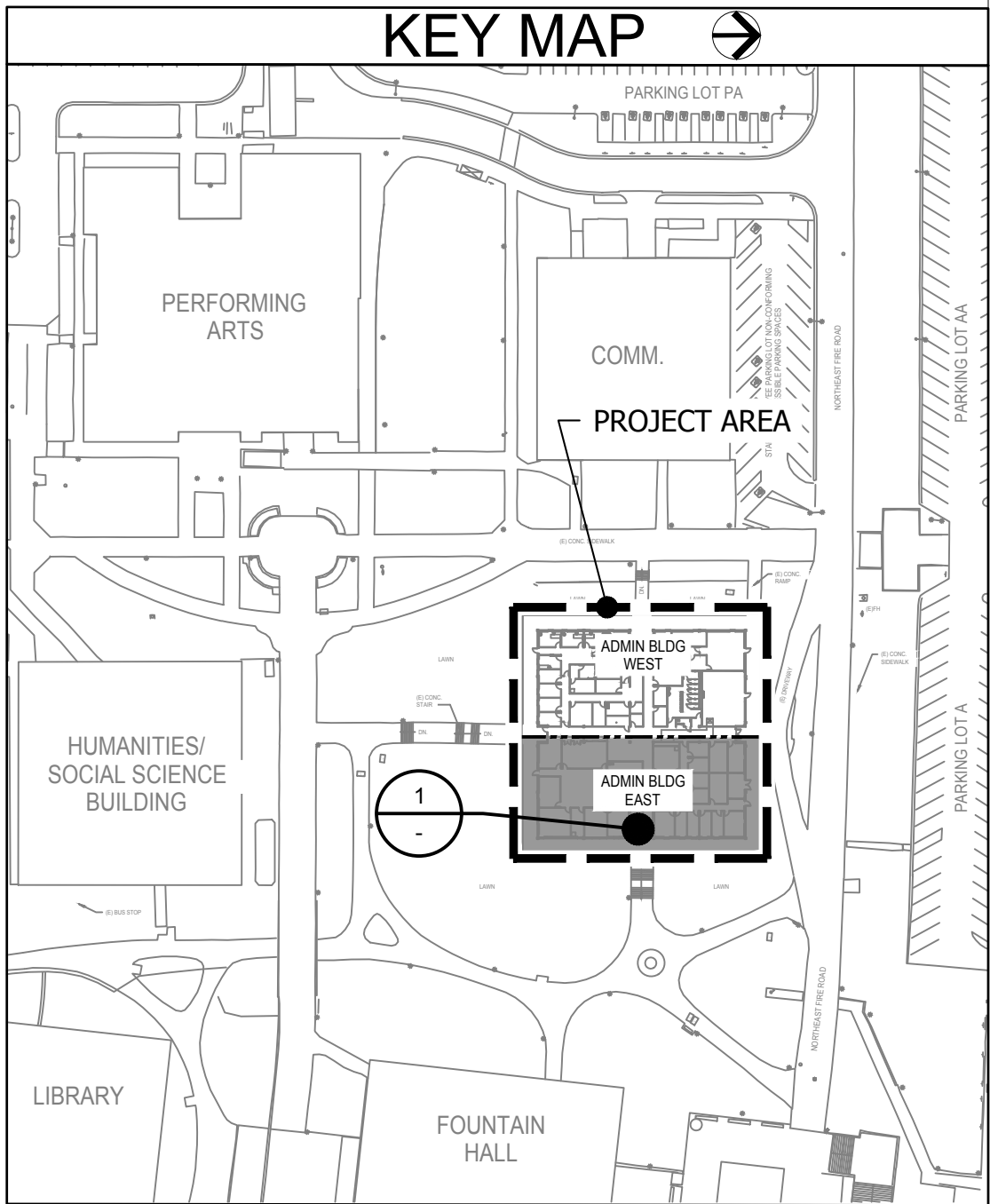
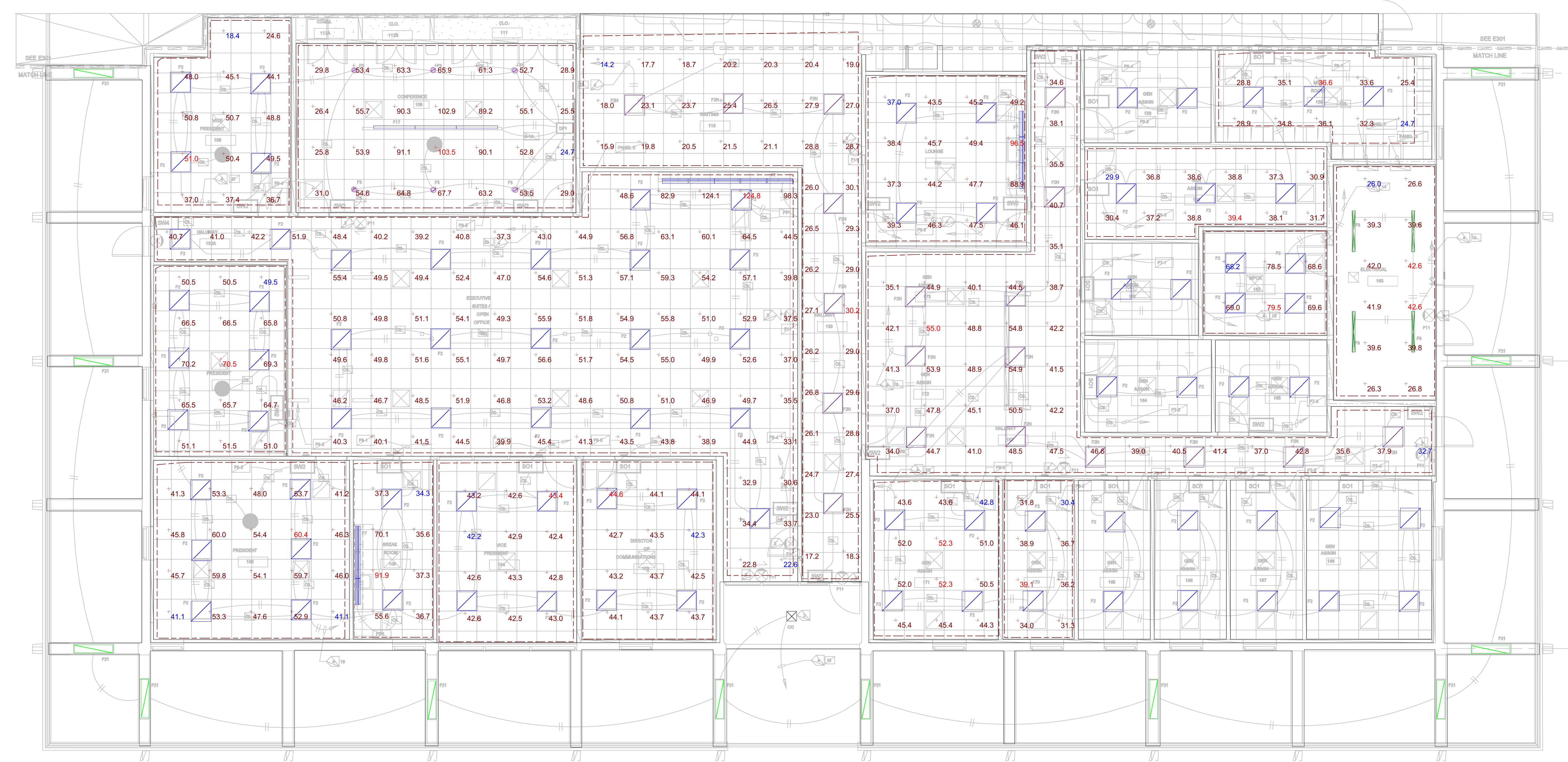
ADMINISTRATION BUILDING EM AND NORMAL PHOTOMETRIC PLAN - WEST
SCALE: NTS

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E303

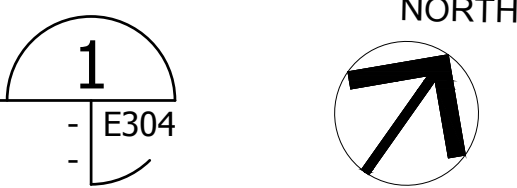


FIXTURE SCHEDULE												
Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Source	Lumens Per LED	LLF	Input Power	Distribution	Notes
	F1		0	Lithonia Lighting	ENVX 2x4 HRG 4800LM 80CRI 35K E2T MVOLT CL80	Spec Ambient LED Traffer, 2x4, Hourglass, 4800 Nominal Lumens, 80 CRI, 3500K		4750	0.92	40.48	DIRECT, SC-0=1.28, SC-90=1.27	
	F2		150	Lithonia Lighting	ENVX 2x2 HRG 4000LM 80CRI 35K E2T MVOLT CL80	Spec Ambient LED Traffer, 2x2, Hourglass, 4000 Nominal Lumens, 80 CRI, 3500K		4113	0.92	36.28	DIRECT, SC-0=1.28, SC-90=1.27	
	F2N		58	Lithonia Lighting	ENVX 2x2 HRG 4000LM 80CRI 35K E2T MVOLT CL80 NES7	Spec Ambient LED Traffer, 2x2, Hourglass, 4000 Nominal Lumens, 80 CRI, 3500K		4113	0.92	36.28	DIRECT, SC-0=1.28, SC-90=1.27	
	F2S		0	Lithonia Lighting	ENVX 2x2 HRG 4000LM 80CRI 35K	Spec Ambient LED Traffer, 2x2, Hourglass, 4000 Nominal Lumens, 80 CRI, 3500K		4113	0.92	36.28	DIRECT, SC-0=1.28, SC-90=1.27	
	F3		20	Gotham Architectural Lighting	EVO 35/30 AR LSS MVOLT LS MVOLT E21 NLT N80	EVO 6IN ROUND, 80CRI, 3500K, 3000LM, SEMI-SPEC		3302	0.92	29.5	DIRECT, SC-0=0.91, SC-90=0.92	
	F4		3	Gotham Architectural Lighting	EVO6WH 35/25 AR LS MVOLT E21 NLT N80	EVO 6IN WYE, 80CRI, 3500K, 2500LM, CLEAR SPECULAR		2250	0.92	24.7	DIRECT, SC-0=0.75, SC-90=0.97	
	F5		0	Lithonia Lighting	EPANL 2x4 3000LM 80CRI 35K	EPANL 2x4, 3000 Nominal Lumens, 80 CRI, 3500K CCT		3141	0.92	28.51	DIRECT, SC-0=1.27, SC-90=1.27	
	F6		3	Lithonia Lighting	EPANL 1x4 3000LM 80CRI 35K-SURFACE KIT	EPANL 1x4, 3000 Nominal Lumens, 80CRI, 3500K CCT		2960	0.92	26.92	DIRECT, SC-0=1.27, SC-90=1.28	
	F7		26	KELUX	UC32 3040 010V 120/277 WH	32" UNDERCABINET LIGHT		1187	0.92	15.893		
	F9		11	Lithonia Lighting	CLX L48 4000LM HEF WOL MVOLT 35K 80CRI WH	CLX LED linear 48", 4000 lumens, High efficiency, Lens Warm, Wide offsets, General, MVOLT, 3500K, 80CRI		3941	0.92	25.5429	SEMI-DIRECT, SC-0=1.21, SC-90=1.18	
	F17		2	Mark Architectural Lighting	SAPD LSL 13FT MSL4 80CRI 35K 1000LMF WNL FL SC2 MVOLT WHIT FL SC2 MVOLT WHIT NLTGHT F2/36A RECY WITCHY WCOB	Slk 4 Surface Direct 4FT 80CRI 35K 1000LMF Lambertian Flush Lens		3890	0.92	95.55	DIRECT, SC-0=1.31, SC-90=1.22	
	F20A		1	Focal Point, LLC	F5M4RP-XXX-FL2-625F-Seem 4 LED Perimeter 25K-90-XXX-XXX-XXX-WH-20FT		3500K 80CRI LED	2239	0.92	163.1		
	F20B		1	Focal Point, LLC	F5M4RP-XXX-FL2-625F-Seem 4 LED Perimeter 25K-90-XXX-XXX-XXX-WH-20FT		3500K 80CRI LED	2239	0.92	116.5		
	F21		24	Lithonia Lighting	BLTR 1x4 3000 NOMINAL LUMENS, Curved Smooth Lens with Trim Rings 3500K CCT, 80CRI			2482	0.92	22.63	DIRECT, SC-0=1.19, SC-90=1.31	
	OD		4	Kenall	MS15CL-PP-WW-25L35K-MD15CL Series OGC-0V		Kenall	18	0.92	20.4		

STATISTICS							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	UG
CONFERENCE RM 109	+	57.4 fc	103.5 fc	24.7 fc	4.2:1	2.3:1	2.2
CONFERENCE ROOM 145	+	85.4 fc	142.7 fc	46.3 fc	3.1:1	1.8:1	1.9
DIRECTOR OF COMMUNICATIO NS 105	+	43.5 fc	44.6 fc	42.3 fc	1.1:1	1.0:1	1.0
ELECTRICAL 163	+	36.1 fc	42.6 fc	28.0 fc	1.6:1	1.4:1	1.5
EXAM 118	+	49.5 fc	89.3 fc	38.1 fc	2.3:1	1.3:1	2.1
EXAM 119	+	46.8 fc	73.3 fc	37.6 fc	1.9:1	1.2:1	1.9
EXTERIOR READER- WEST	+	6.2 fc	11.2 fc	2.0 fc	5.6:1	3.1:1	4.5
GEN ASSIGN 141	+	51.7 fc	56.5 fc	43.7 fc	1.3:1	1.2:1	1.3
GEN ASSIGN 143	+	21.5 fc	28.0 fc	17.9 fc	1.6:1	1.2:1	1.5
GEN ASSIGN 146	+	28.5 fc	33.0 fc	23.7 fc	1.4:1	1.2:1	1.3
GEN ASSIGN 160	+	35.7 fc	39.4 fc	29.9 fc	1.3:1	1.2:1	1.2
GEN ASSIGN 170	+	34.8 fc	39.1 fc	30.4 fc	1.3:1	1.1:1	1.2
GEN ASSIGN 171	+	47.9 fc	52.3 fc	42.8 fc	1.2:1	1.1:1	1.2
GEN ASSIGN 172	+	42.6 fc	55.0 fc	32.7 fc	1.7:1	1.3:1	1.3
GENDER RESTROOM 126	+	13.4 fc	13.5 fc	13.3 fc	1.0:1	1.0:1	1.0
GENERAL SUPPORT 133	+	28.3 fc	29.2 fc	27.5 fc	1.1:1	1.0:1	1.1
GENERAL WAITING 138	+	26.9 fc	34.8 fc	10.6 fc	3.3:1	2.5:1	2.8
HEALTH COORDINATOR 123	+	27.5 fc	33.2 fc	13.1 fc	2.5:1	2.1:1	2.0
HEALTH ED 131	+	46.8 fc	50.5 fc	42.7 fc	1.2:1	1.1:1	1.2
HEALTH WAITING 124	+	46.8 fc	50.4 fc	42.0 fc	1.2:1	1.1:1	1.2
LOUNGE 136	+	33.0 fc	41.7 fc	23.2 fc	1.8:1	1.4:1	1.6
MAIL ROOM 159	+	50.1 fc	96.5 fc	37.0 fc	2.6:1	1.4:1	2.0
MECHANICAL 155	+	31.6 fc	36.6 fc	24.7 fc	1.5:1	1.3:1	1.3
MENS RESTROOM 149	+	47.3 fc	62.3 fc	31.3 fc	2.0:1	1.5:1	1.5
MENTAL HEALTH 117	+	59.2 fc	79.2 fc	41.0 fc	1.9:1	1.4:1	1.6
MPGE 162	+	37.1 fc	38.0 fc	36.5 fc	1.0:1	1.0:1	1.0
OPEN OFFICE SUITES 102	+	72.2 fc	79.5 fc	68.2 fc	1.2:1	1.1:1	1.2
PRESIDENT 106	+	49.9 fc	124.8 fc	22.6 fc	5.5:1	2.2:1	2.2
STORAGE 122	+	50.3 fc	60.4 fc	41.1 fc	1.5:1	1.2:1	1.3
STORAGE 136	+	16.4 fc	16.7 fc	16.0 fc	1.0:1	1.0:1	1.0
TEL/IT	+	21.1 fc	21.4 fc	20.8 fc	1.0:1	1.0:1	1.0
VICE PRESIDENT 104	+	41.1 fc	50.8 fc	19.7 fc	2.6:1	2.1:1	1.4
VICE PRESIDENT 108	+	60.6 fc	70.5 fc	49.5 fc	1.4:1	1.2:1	1.3
VICE PRESIDENT 109	+	42.8 fc	43.4 fc	42.2 fc	1.0:1	1.0:1	1.0
VICE PRESIDENT 108	+	42.3 fc	51.0 fc	18.4 fc	2.8:1	2.3:1	2.4
WAITING 110	+	24.0 fc	30.2 fc	14.2 fc	2.1:1	1.7:1	1.4
WOMENS RESTROOM 121	+	63.2 fc	89.2 fc	39.1 fc	2.3:1	1.6:1	1.9
WORKROOM 128	+	57.8 fc	85.6 fc	33.8 fc	2.5:1	1.7:1	1.6
BREAK ROOM 105	+	49.8 fc	81.9 fc	34.3 fc	2.7:1	1.5:1	2.5



ADMINISTRATION BUILDING EM AND NORMAL PHOTOMETRIC PLAN - EAST
SCALE: NTS



DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123218 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/11/2024

AMADOR WHITTLE
ARCHITECTS, INC.
28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3536, (818) 674-0071

Ventura County Community College

PROJECT TITLE
**MOORPARK COLLEGE
ADMINISTRATION
BUILDING RENOVATION**

7075 CAMPUS ROAD
MOORPARK, CA 91320

CONSULTANT

LUCCI & ASSOCIATES, INC.
CONSULTING ELECTRICAL ENGINEERS
3251 CORTE MALPASO, #511
CAMARILLO, CA 93012-8094
(805) 389-6520 FAX (805) 389-6519

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STAMPS/SEALS

12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:
**ADMINISTRATION
BUILDING EM AND
NORMAL
PHOTOMETRIC
PLAN - EAST**

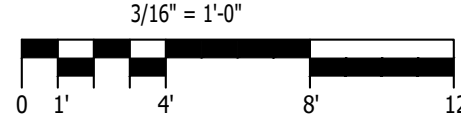
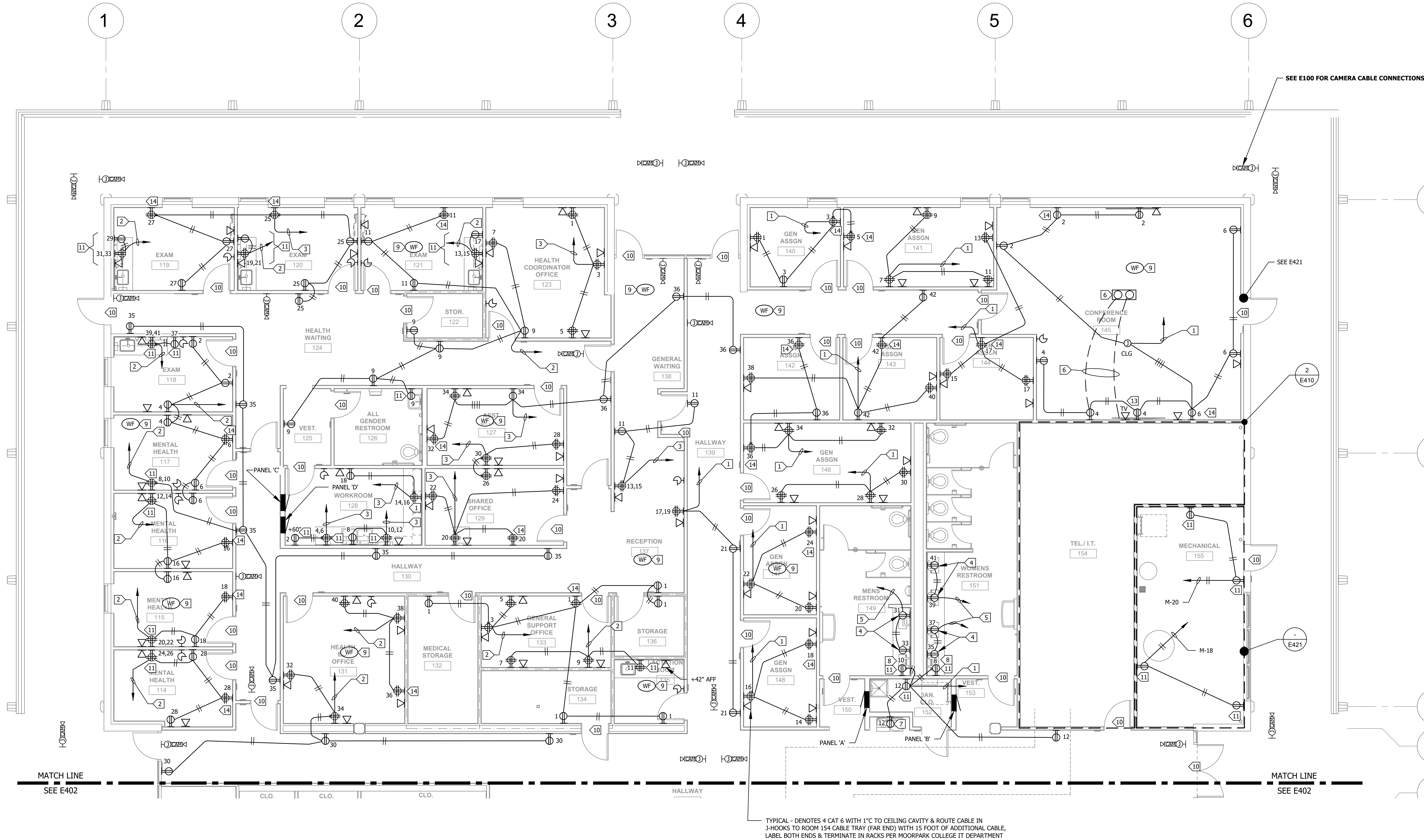
PROJECT NO.: 21-MPC-040 PROJECT ARCH:
DRAWN: LK/DS CHECKED:
SHEET NUMBER:
E304

DATE: 12/08/23 SHEET: OF

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LAL-F 21-375

TIME: 11:51 am
DATE: 3 January 2024
PATHNAME: G:\21\375\EL\Sheets
DRAWING FILENAME: 21-375E401
DRAFTER: CM02



ADMINISTRATION BUILDING POWER PLAN - WEST
SCALE: 3/16"=1'-0"

1
- E401

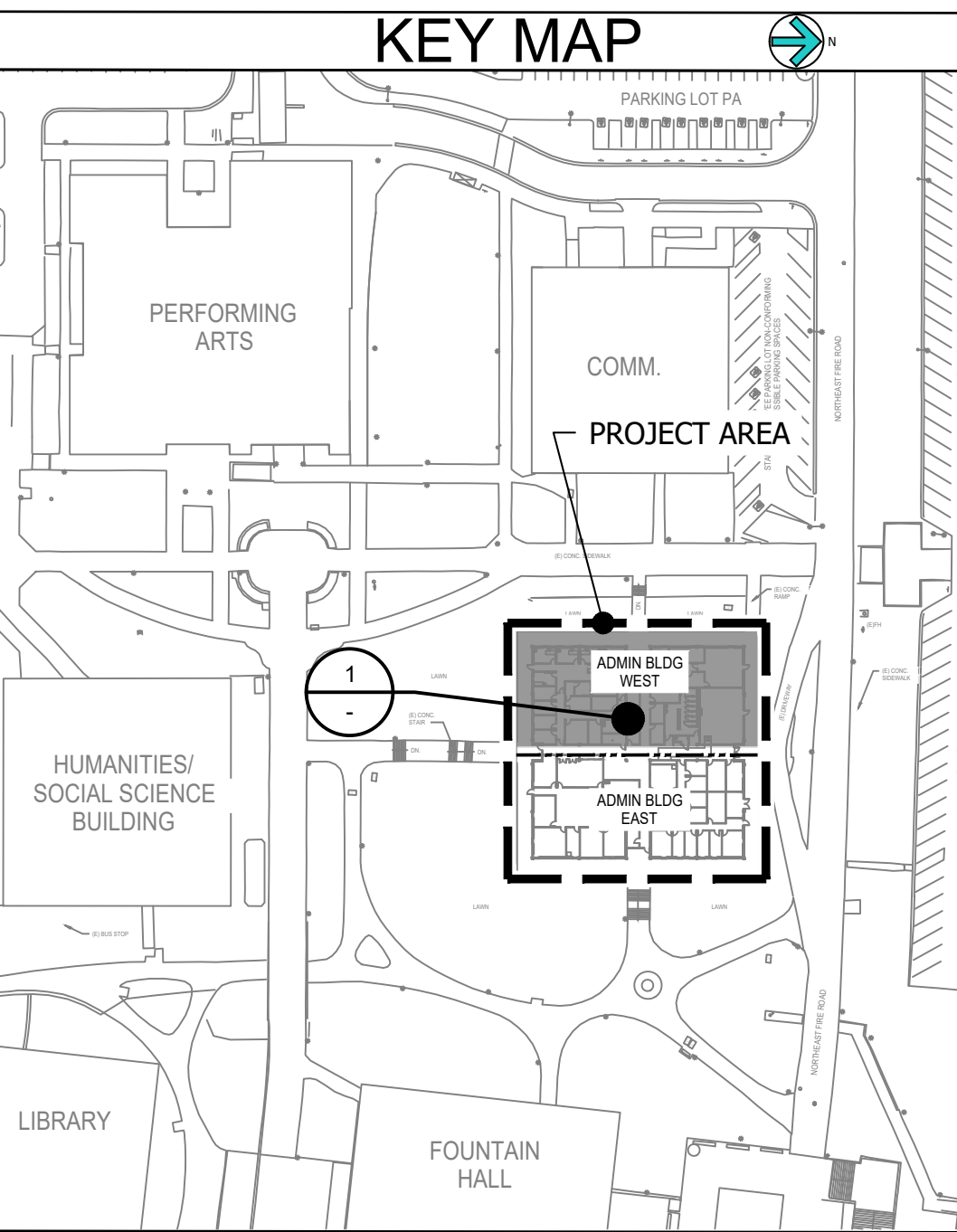


SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
5. 3/4" CONDUIT MINIMUM U.O.N.
6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
8. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
9. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

1. 3/4"-6#12 & 1#12 GROUND TO PANEL 'A' CIRCUITS AS NOTED.
2. 3/4"-6#12 & 1#12 GROUND TO PANEL 'C' CIRCUITS AS NOTED.
3. 3/4"-6#12 & 1#12 GROUND TO PANEL 'D' CIRCUITS AS NOTED.
4. EACH SINK REQUIRES GFCI RECEPTACLE BELOW ISA PER MFG.
5. 3/4" - 4#12 & 1#12 GROUND TO PANEL A.
6. HUBBEL 1 SERIES FLOOR BOX IN CONCRETE BELOW CONF. TABLE, PROVIDE DUPLEX (CIRCUIT 4), PROVIDE (2) 1-1/4" - TO VIDEO MONITOR BOX AT +60" WITH (2) CAT 6 TERMINATE AT THIS MONITOR J-BOX & (2) 1-1/4" WITH (4) CAT 6 CONTINUE TO IDF, A TOTAL OF 4 CAT 6 LEAVE FLOOR BOX - 2 TO EACH LOCATION.
7. GFCI RECEPTACLE.
8. CONNECT TO PLUMBING POWER CONTROL TRANSFORMER.
9. WIFI IN CEILING WITH 2 CAT 6 TO ROOM 154.
10. 2 CAT 6 (10 FOOT LOOP EACH) ABOVE DOOR WITH ACCESS INTO DOOR FRAME (COORDINATE WITH ARCHITECT).
11. +42" AFF GFCI RECEPTACLE.
12. +42" AFF RECEPTACLE.
13. +60" AFF VIDEO RECEPTACLE (RECESSED) VERIFY WITH ARCHITECT.
14. CONTROLLED OUTLET WITH SPLIT WIRED RECEPTACLE, LABEL PER TITLE 24 REQUIREMENTS. USE PLUG LOAD CONTROLLER FROM LIGHTING PLANS.



DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123218 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/11/2024

AMADOR WHITTLE
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28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3536, (618) 674-0071

Ventura County Community College

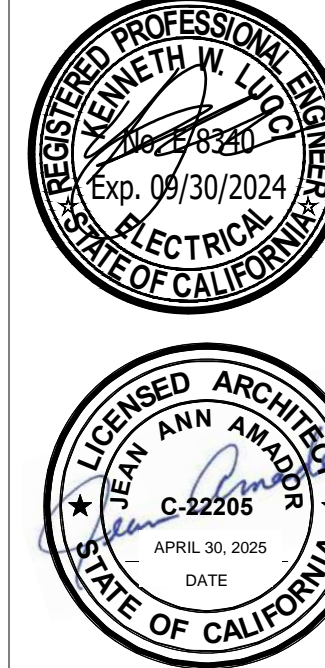
PROJECT TITLE
MOORPARK COLLEGE
ADMINISTRATION
BUILDING RENOVATION

7075 CAMPUS ROAD
MOORPARK, CA 91320

CONSULTANT
LUCCI & ASSOCIATES INC.
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STAMPS/SEALS



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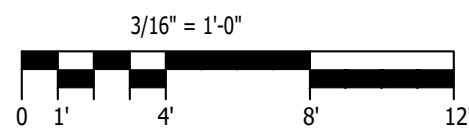
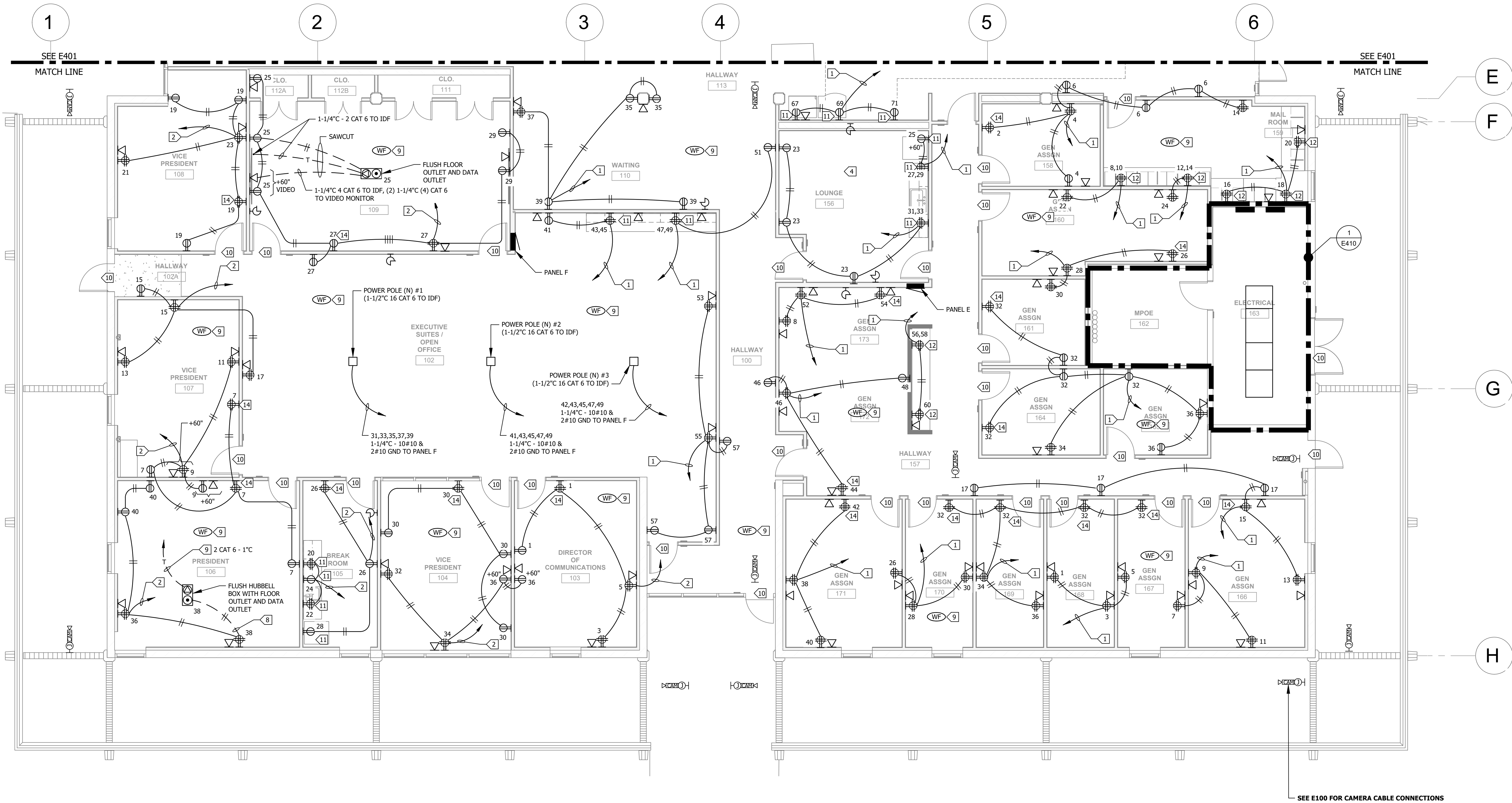
SHEET TITLE:
ADMINISTRATION
BUILDING
POWER PLAN -
WEST

PROJECT NO.: 21-MPC-040 PROJECT ARCH:
DRAWN: LK/DS CHECKED:
SHEET NUMBER:

E401

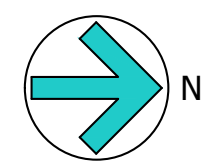
DATE: 12/08/23 SHEET: OF
IF THIS SHEET IS NOT 36" X 48", IT IS NOT FULL SIZE. SCALE ACCORDINGLY
LALF 21-375

DATE: 11:51 am
TIME: 3 January 2024
PATHNAME: G:\21\375\EL\Sheets
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DRAFTER: CM02



ADMINISTRATION BUILDING POWER PLAN - EAST
SCALE: 3/16"=1'-0"

1
E402



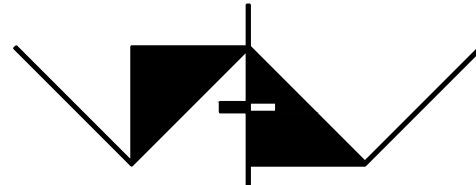
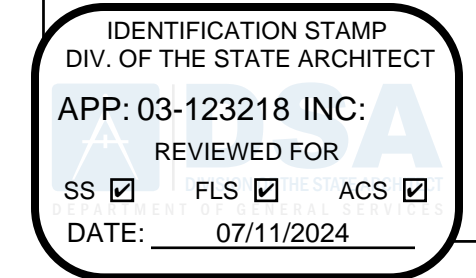
SHEET NOTES:

- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 3/4" CONDUIT MINIMUM U.O.N.
- PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
- PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

- 3/4"C-6#12 & 1#12 GROUND TO PANEL 'E'.
- 3/4"C-6#12 & 1#12 GROUND TO PANEL 'F'.
- NOT USED.
- NOT USED.
- NOT USED.
- NOT USED.
- NOT USED.
- SAW CUT FLOOR FOR (2) 1" CONDUIT & REPAIR TO ORIGINAL CONCRETE.
- WIFI IN CEILING WITH 2 CAT 6 TO ROOM 154.
- 2 CAT 6 (10 FOOT LOOP EACH) ABOVE DOOR WITH ACCESS INTO DOOR FRAME (COORDINATE WITH ARCHITECT).
- +42" AFF GFCI RECEPTACLE.
- +42" AFF RECEPTACLE.
- +60" AFF VIDEO RECEPTACLE (RECESSED) VERIFY WITH ARCHITECT.
- CONTROLLED OUTLET WITH SPLIT WIRED RECEPTACLE, LABEL PER TITLE 24 REQUIREMENTS. USE PLUG LOAD CONTROLLER FROM LIGHTING PLANS.

DIVISION OF THE STATE ARCHITECT



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Ventura County Community College

PROJECT TITLE
**MOORPARK COLLEGE
ADMINISTRATION
BUILDING RENOVATION**

7075 CAMPUS ROAD
MOORPARK, CA 91320

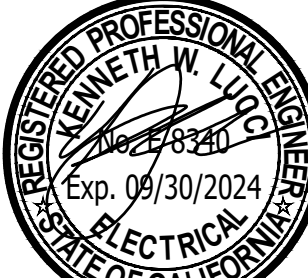
CONSULTANT

LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS

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STAMPS/SEALS



12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:

**ADMINISTRATION
BUILDING
POWER PLAN -
EAST**

PROJECT NO.: 21-MPC-040 PROJECT ARCH:
DRAWN: LK/DS CHECKED:
SHEET NUMBER:

E402

DATE: 12/08/23 SHEET: OF
IF THIS SHEET IS NOT 36" X 48", IT IS NOT FULL SIZE. SCALE ACCORDINGLY
LAL# 21-375

TIME: 8:33 am

DATE: 18 December 2023

PATHNAME: G:\21\375\EL\Sheets

DRAWING FILENAME: 21-375E420

DRAFTER: CW01

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Date: 11/20/23 11:58:00
User: CW01
Printer: HP DesignJet 5000 Series
Plotter: HP DesignJet 5000 Series
Scale: 1/8"=1'-0"

Quicker-CAD 11.0 (32-bit) - 11/20/23 11:58:00

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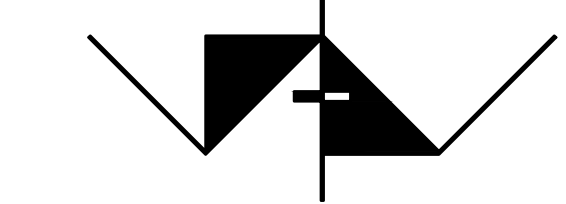
DIV. OF THE STATE ARCHITECT

APP: 03-123218 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 07/11/2024



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ARCHITECTS, INC.
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(805) 530-3036 (818) 674-0071

Ventura County Community College



PROJECT TITLE
**MOORPARK COLLEGE
ADMINISTRATION
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MOORPARK, CA 91320

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STAMPS/SEALS



12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:
**MECHANICAL
EQUIPMENT
ELECTRICAL
SCHEDULE**

PROJECT NO.: 21-MPC-040 PROJECT ARCH:
DRAWN: LK/DS CHECKED:

SHEET NUMBER:

E420

DATE: 12/08/23 SHEET: OF
IF THIS SHEET IS NOT 36" X 42", IT IS NOT FULL SIZE. SCALE ACCORDINGLY
LAL# 21-375

ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT (EXTERIOR EQUIPMENT SHALL BE NEMA 3R)												
TAG #	DESCRIPTION	H.P.	FLA	MAX OCP	VOLTAGE	PHASE	NEMA STARTER SIZE	DISCONNECT	RECOMMENDED FUSE SIZE/TYPE*	REMARKS	PANEL/CIRCUIT NO.	FEEDER
AC 1	PACKAGED ROOF TOP AC-1(EAST)		149	175	208	3	.	200A/3P	175A FRN-RK	WITH SMOKE DUCT DETECTOR	DB-12	2" - 3 # 3/0 & 1#6 GND (EMT) COPPER
AC 2	PACKAGED ROOF TOP AC-2 (WEST)		149	175	208	3		200A/3P	175A FRN-RK	WITH SMOKE DUCT DETECTOR	DB-13	2" - 3 # 3/0 & 1#6 GND (EMT) COPPER
CP 1	CONDENSATE PUMP		1.5 AMPS 93 WATTS	15	208	1		4			M-24 - 26	3/4" - 2#12 & 1#12 & 1#12 GND
DF 1	DRINKING FOUNTAIN		1.0 AMP	15	120	1		3			SEE E401	3/4" - 2#12 & 1#12 & 1#12 GND
EF 1	EXHAUST FAN 1 (EMS CONTROL)		2	15	120	1		4			M-1	3/4" - 2#12 & 1#12 & 1#12 GND
EF 2	EXHAUST FAN 2 (MOTION SENSOR TIME DELAY)		.3	15	120	1		4			M-3	3/4" - 2#12 & 1#12 & 1#12 GND
EF 3	EXHAUST FAN 3 (LINE VOLTAGE T-STAT)		2	15	120	1		5			M-5	3/4" - 2#12 & 1#12 & 1#12 GND
HP 1	HEAT PUMP		173	250	208	3		400A/3P	225A FRN-RK		DB-11	2" - 3 # 250MCM & 1#4 GND (EMT) COPPER
L 1	LAVATORY		2 AMPS	15	120	1		5			AS NOTED ON E401	3/4" - 2#12 & 1#12 & 1#12 GND
P 1	PUMP 1	.5	4.6	15	208	1	1	15A/2P	8A	CONTACTOR CONTROLLED	M-9-11	3/4" - 2#12 & 1#12 & 1#12 GND
P 2	PUMP 2	1.5	5.0	15	208	3	VFD	15A/3P			M-13-15	3/4" - 3#12 & 1#12 & 1#12 GND
RP 1	RECIRCULATION PUMP		180 WATTS		120	1	00	4		CONTACTOR CONTROLLED	M-22	3/4" - 2#12 & 1#12 & 1#12 GND
SD 1	SMOKE DETECTOR (DUCT DETECTOR)				120	1					G-6	3/4" - 2#12 & 1#12 & 1#12 GND
SS 1A	SPLIT SYSTEM 1A FAN COIL (COM ROOM)		2.5	15	208	3		15A/3P			ITM-2-4-6	3/4" - 3#12 & 1#12 & 1#12 GND
SS 1B	SPLIT SYSTEM 1B (ROOF) COMPRESSOR (COM ROOM)		45.5	60	208	3		60A/3P			ITM-1-3-5	1" - 3#6 & 1#10 GND
SS 2A	SPLIT SYSTEM 2A FAN COIL (COM ROOM)		2.5	15	208	3		15A/3P			ITM-8-10-12	3/4" - 3#12 & 1#12 & 1#12 GND
SS 2B	SPLIT SYSTEM 2B (ROOF) COMPRESSOR (COM ROOM)		45.5	60	208	3		60A/3P			ITM-7-9-11	1" - 3#6 & 1#10 GND
SS 3A	SPLIT SYSTEM 3A (ROOF) COMPRESSOR (1T' ROOM)		13	20	208	1		20A/2P			ITM-13-15	3/4" - 2#12 & 1#12 & 1#12 GND
SS 3B	SPLIT SYSTEM 3B FED FROM '3A' (1T' ROOM)									OUTDOOR UNIT POWERS INDOOR UNIT	ITM-13-15	PER MFG (3/4" - 2#12 & 1#12 & 1#12 GND)
SS 4A	SPLIT SYSTEM 4A (ROOF) (1T' ROOM)		13	20	208	1		20A/2P			ITM-17-19	3/4" - 2#12 & 1#12 & 1#12 GND
SS 4B	SPLIT SYSTEM 4B FED FROM '4A' (1T' ROOM)									OUTDOOR UNIT POWERS INDOOR UNIT	ITM-17-19	PER MFG (3/4" - 2#12 & 1#12 & 1#12 GND)
WH 1	WATER HEATER (1T' ROOM)		30 AMPS 4500 WATTS		208/240	1	30A/2P	30A/2P		CONTACTOR CONTROLLED	M-2-4	3/4" - 3#10 & 1#10 GND
* ALL FUSES BY BUSSMANN AND SHALL BE SIZED PER MANUFACTURERS RECOMMENDATION.												

SHEET NOTES:

- FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
- SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
- THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS.
- PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.
- THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER N.E.C. ARTICLE 351-8
- PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
- PROVIDE ALL DEVICES AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
- NO CONDUIT/FEEDER SHALL BE PERMITTED ON THE ROOF WITH CRIPPLES,ALL FEEDERS SHALL BE RUN BENEATH THE ROOF.
- ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON AH UNIT.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- PROVIDE DISCONNECT OR STARTER WITH A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED.

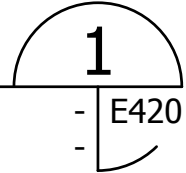
KEY NOTES:

- FOR FEEDER AND DISCONNECT INFORMATION SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT THIS SHEET.
- PROVIDE 3/4" & CONTROLS PER MECHANICAL.
- W.P. GFCI. RECEPTACLE.
- MOTOR RATED SWITCH.
- 15A, 120V, GFCI RECEPTACLE

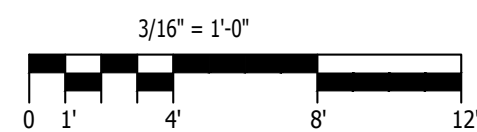
SEE M6.0 FOR MECHANICAL
CONTROL REQUIREMENTS

MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE

SCALE: NONE

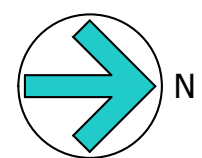


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DATE: 18 December 2023
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DRAWING FILENAME: 21-375E421
DRAFTER: CM01



ADMINISTRATION BUILDING MECHANICAL AND PLUMBING ELECTRICAL PLAN - WEST
SCALE: 3/16"=1'-0"

1
E421



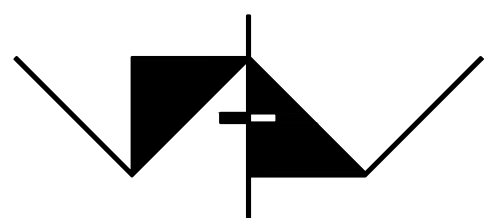
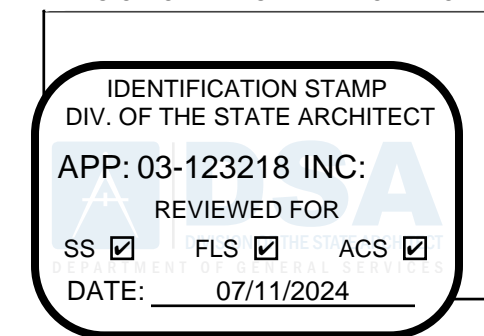
SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
5. 3/4" CONDUIT MINIMUM U.O.N.
6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
8. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
9. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

- 1 SEE E420 FOR FEEDER/CIRCUIT INFORMATION.
- 2 HOME RUN M-6
- 3 HOME RUN M-8
- 4 HOME RUN M-10
- 5 STAINLESS STEEL COVERED BOX WITH TAMPER PROOF SCREWS MOUNTED UNDER COUNTER.
- 6 ITM-41

DIVISION OF THE STATE ARCHITECT



**AMADOR WHITTLE
ARCHITECTS, INC.**

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3536, (818) 874-0071

Ventura County Community College

PROJECT TITLE
**MOORPARK COLLEGE
ADMINISTRATION
BUILDING RENOVATION**

7075 CAMPUS ROAD
MOORPARK, CA 91320

CONSULTANT

LUCCI & ASSOCIATES, INC.
CONSULTING ELECTRICAL ENGINEERS

3251 CORTE MALPASO, #511
CAMARILLO, CA 93012-8094
(805) 389-6520 FAX (805) 389-6519

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STAMPS/SEALS



12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:

**ADMINISTRATION
BUILDING
MECHANICAL AND
PLUMBING
ELECTRICAL PLAN
- WEST**

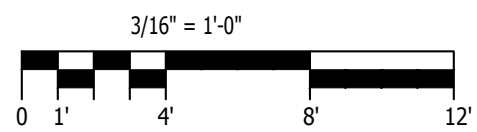
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DRAWN: LK/DS CHECKED:

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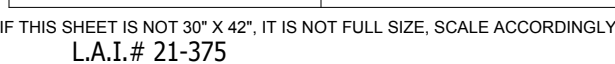

E421

DATE: 12/08/23 SHEET: OF
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DRAFTER: CM01



SCALE: 3/16"=1'-0"

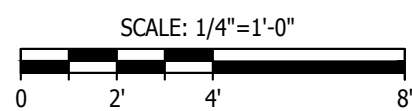
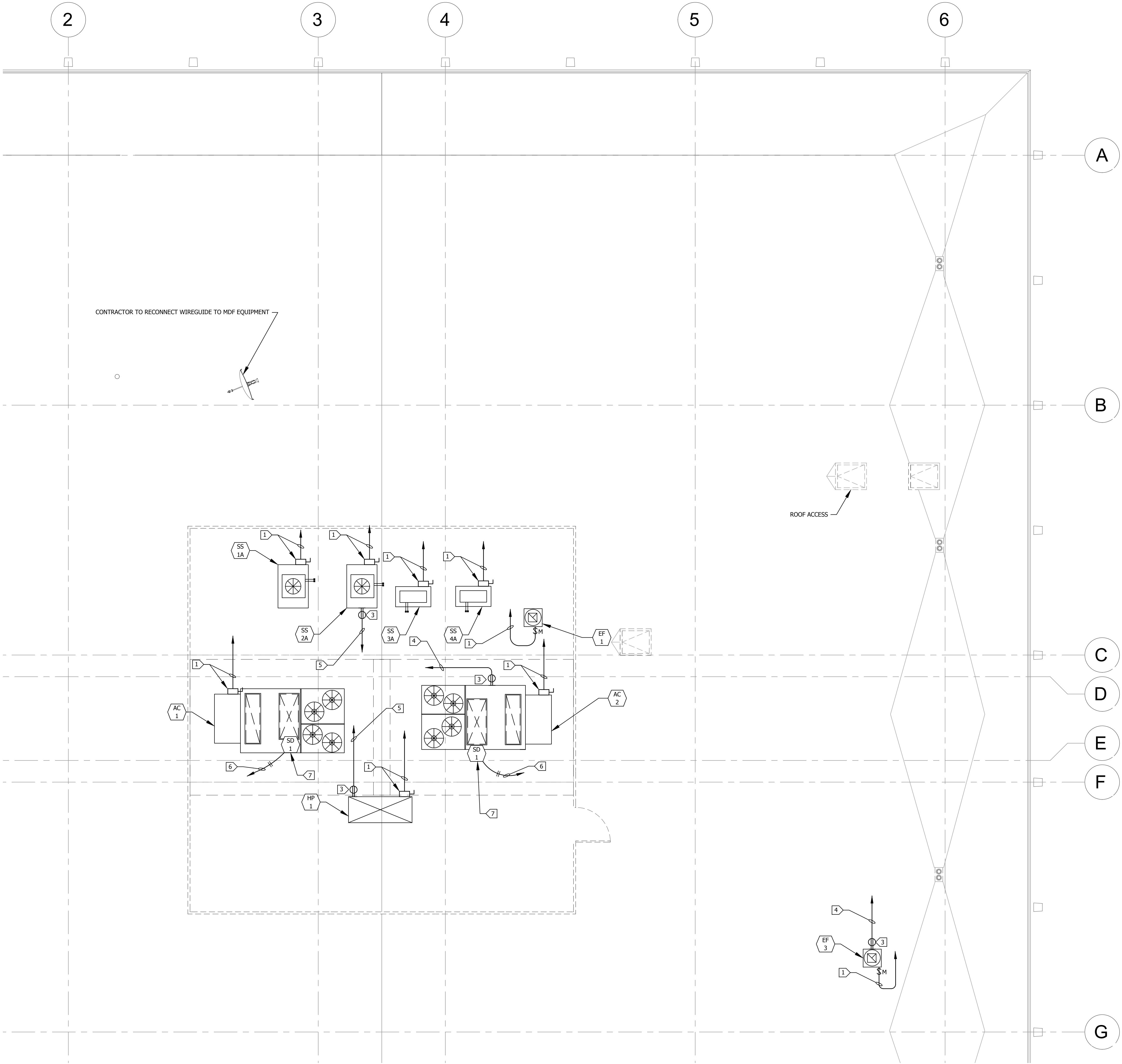


1 SEE E420 FOR FEEDER/DISCONNECT INFORMATION

12/08/2023 - DSA RESUBMITTAL

DATE: 12/08/23 SHEET: ____ OF ____

DATE: 18 December 2023
TIME: 9:33 am
PATHNAME: G:\21\375\EL\Sheets
DRAWING FILENAME: 21-375E423
DRAFTER: CM01



ADMINISTRATION BUILDING MECHANICAL ELECTRICAL PLAN - FOR MECHANICAL SYSTEMS ON ROOF
SCALE: 1/4"=1'-0"

1
E423



SHEET NOTES:

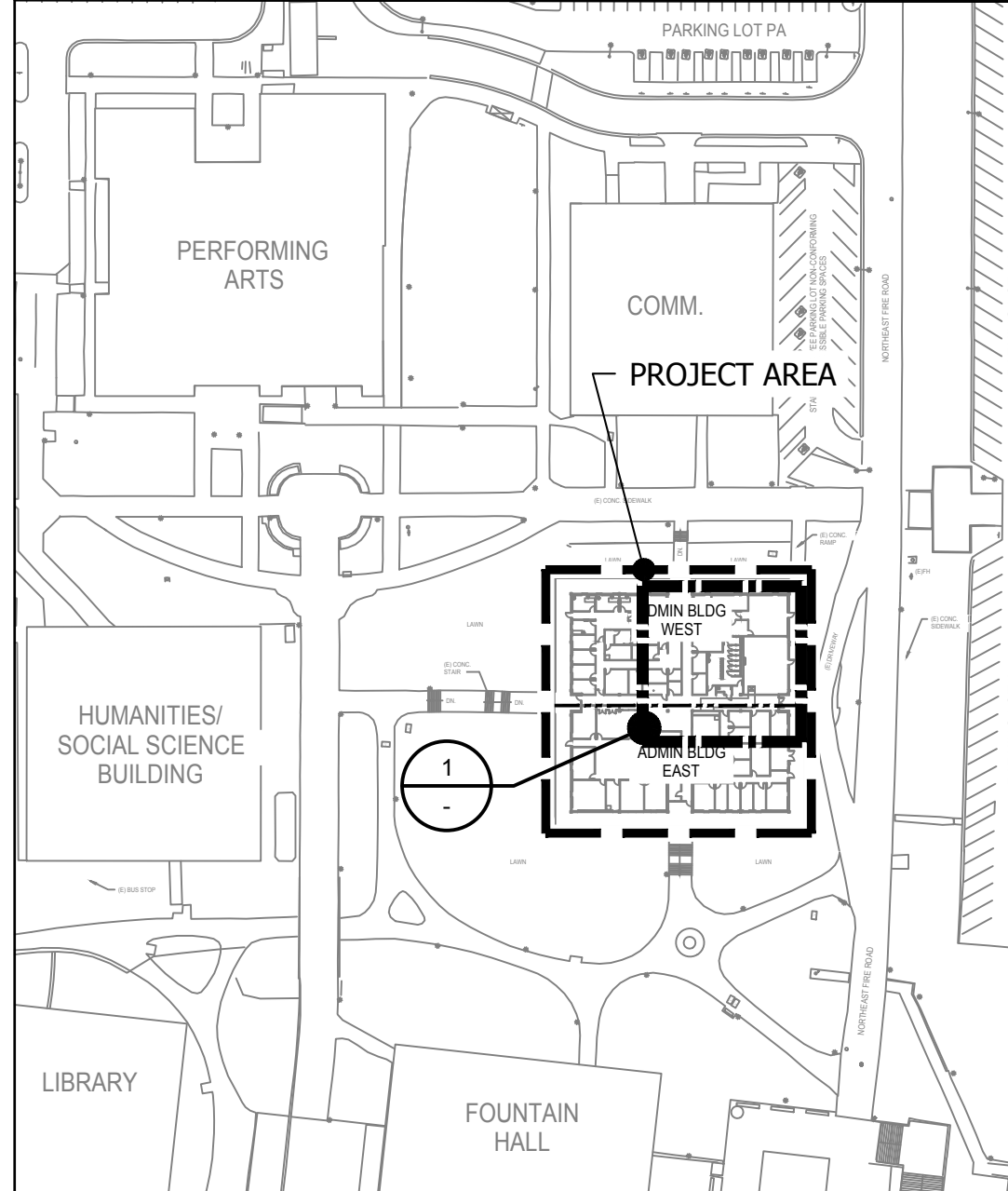
1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
5. 3/4" CONDUIT MINIMUM U.O.N.
6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
8. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
9. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

- 1 FOR FEEDER AND DISCONNECT INFORMATION SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT THIS SHEET.
- 2 PROVIDE 3/4"C & CONTROLS PER MECHANICAL.
- 3 W.P. GFCI RECEPTACLES
- 4 M-12
- 5 M-14
- 6 M-16
- 7 SEE FA PLANS

SS & CU POWER COMMUNICATION
PER MECHANICAL PLANS & MFG
REQUIREMENTS

KEY MAP



DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123218 INC:
REVIEWED FOR:
SS ☒ FLS ☒ ACS ☒
DATE: 07/11/2024

**AMADOR WHITTLE
ARCHITECTS, INC.**
28328 AGOURA ROAD, SUITE 203
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Ventura County Community College

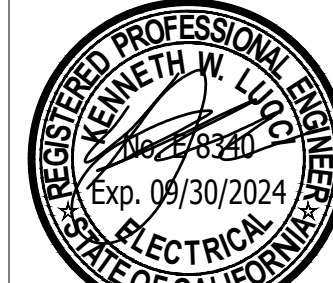
PROJECT TITLE
**MOORPARK COLLEGE
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BUILDING RENOVATION**

7075 CAMPUS ROAD
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STAMPS/SEALS



12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:
**ADMINISTRATION
BUILDING
MECHANICAL
ELECTRICAL PLAN
- FOR MECHANICAL
SYSTEMS ON ROOF**

PROJECT NO.: 21-MPC-040 PROJECT ARCH:
DRAWN: LK/DS CHECKED:
SHEET NUMBER:

E423

DATE: 12/08/23 SHEET: OF
IF THIS SHEET IS NOT 36" X 42", IT IS NOT FULL SIZE. SCALE ACCORDINGLY
LAL# 21-375

TIME: 8:33 am




DATE: 18 December 2023

PATHNAME: G:\21375\EL\Sheets

DRAWING FILENAME: 21-375E500

DRAWER: CW01

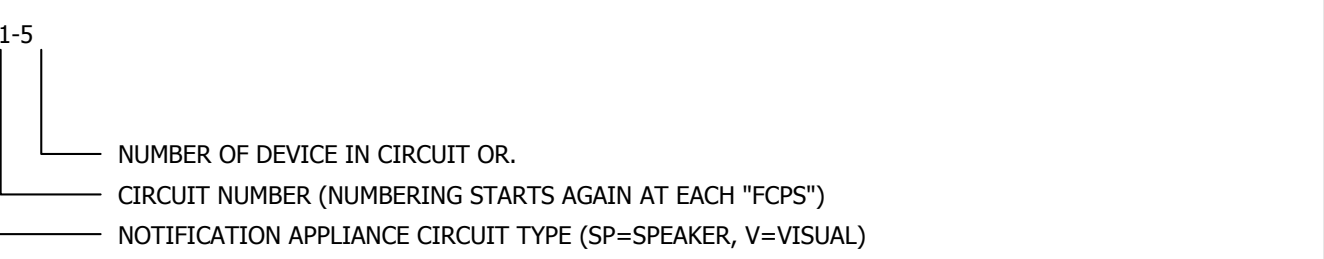
DEVICE LEGEND

SYMBOL	MODEL	MAKE	DESCRIPTION	CSFM #	MOUNTING
	4CPU	EST	MAIN CPU EST4	7170-1657:0508	.
	4-NET-TP	EST	TWISTED PAIR SFP NETWORK CONTROLLER	7170-1657:0508	.
	3-SDDC2	EST	SIGNATURE DUAL DRIVER CONTROLLER (LRM)	7170-1657:0508	.
	3-MODCOM	EST	MODEM COMMUNICATOR AND DIALER	7170-1657:0508	.
	4-FWAC1	EST	FIREWALL IP CONNECTION	7170-1657:0508	.
	4-LCDLE	EST	DISPLAY,MAIN LCD MODULE	7170-1657:0508	.
	4-24L12S	EST	CNTRL DISPLAY,24 LED,12 SWITCH	7170-1657:0508	.
	4-FIL	EST	BLANK FILLER	7170-1657:0508	.
	4-AUDTELS	EST	AUDIO IO AND TELEPHONE RISER SOURCE MODULE	7170-1657:0508	.
	4-MIC	EST	PAGING MICROPHONE	7170-1657:0508	.
	3-2A40	EDWARDS	40 WATT ZONED AMPLIFIER, CLASS B/A, 25 OR 70VRMS	7170-1657:0508	.
	3-CAB14B	EST	BACK BOX /W/ 14 LRM SPACE W/O DOOR	7170-1657:0508	.
	4-CAB24D	EST	DOOR ASSEMBLY FOR 3-CAB14	7170-1657:0508	.
	BCA-SSU00501	EST	BATTERY CABINET - SPACE AGE MFG.	7300-0553:0111	3-RCC-Z1R
	4-PPS/M	EST	PRIMARY POWER SUPPLY 120V	7300-1657-0519	.
	BPS-10A	EST	BOOSTER POWER SUPPLY 120V	7300-1657-0519	.
	12V65A	EST	65 AH BATTERY	N/A	.
	3-CHAS7	EST	CHASSIS ASSY FOR 7 LRMS	7170-1657:0508	.
	4-2ANN	EST	ANNUNCIATOR,LCD	7170-1657:0508	.
	4-NET-TP	EST	SFP CNTRL,2Mbps SHARED TX/RX	7170-1657:0508	.
	4-2ANMT	EST	ANNUNCIATOR BACKBOX,2 SP,BLK	7170-1657:0508	.
	BPS10A	EST	-SIGNAL EXTENDER POWER SUPPLY	7300-1657:0229	-WALLBOX PROVIDED
	SLA1075	POWER PATROL	-7.2 AH BATTERY X2	N/A	-MOUNTS IN WALLBOX
	G4SVWF	EST	-SPEAKER/STROBE 15 CANDELA (W=WALL C=CEILING)	7320-1657:0516	-4"SQUARE BOX WITH SINGLE GANG RING
	G4SVWF	EST	-SPEAKER/STROBE 30 CANDELA (W=WALL C=CEILING)	7320-1657:0516	-4"SQUARE BOX WITH SINGLE GANG RING
	G4SVWF	EST	-SPEAKER/STROBE 75 CANDELA (W=WALL C=CEILING)	7320-1657:0516	-4"SQUARE BOX WITH SINGLE GANG RING
	G4SVWF	EST	-SPEAKER/STROBE 115 CANDELA (W=WALL C=CEILING)	7320-1657:0516	-4"SQUARE BOX WITH SINGLE GANG RING
	WG4WF	EST	SPEAKER (EXTERIOR WITH W/P BACKBOX)	7320-1657:0289	WEATHER PROOF BOX INCLUDED
	SIGA-OSD	EST	-SMOKE DETECTOR	7272-1657:0511	-MOUNTS TO SIGA-SB BASE
	SIGA-SB	EST	-BASE	7300-1657:0120	-4" SQ. BOX WITH 3" "O" RING
	THERMO TECH 302-194	POTTER	-HEAT DETECTOR 194 DEGREE	7270-0021:0001	-MOUNTS TO STONCO #27 OR EQUIVALENT
	SIGA-CC1S	EST	-SIGNAL MODULE - MONITOR	7300-1657:0121	-4" SQ. ELECTRICAL BOX 1-1/2" DEEP
	SIGA-CR	EST	-ADDRESSABLE CONTROL RELAY	7300-1657:0121	-SINGLE GANG RING
	PAM-1	AIRPRODUCTS	-MULTI VOLTAGE RELAY	7300-1004:0101	-SINGLE GANG RING
	SIGA-WTM	EST	INPUT MODULE (WATER FLOW/TAMPER)	7300-1657:0121	.
	SIGA-MM1	EST	INPUT MODULE (MONITOR)	7300-1657:0121	.
	SIGA-SD	EST	SMOKE DUCT DETECTOR	3242-1657:0223	.
	N/A	BY OTHERS	-JUNCTION BOX	N/A	.
	SIGA-OSCD	EST	SMOKE & CO DETECTOR WITH SOUNDER BASE	7275-1657:0513	-SIGA-SB BASE 45Q

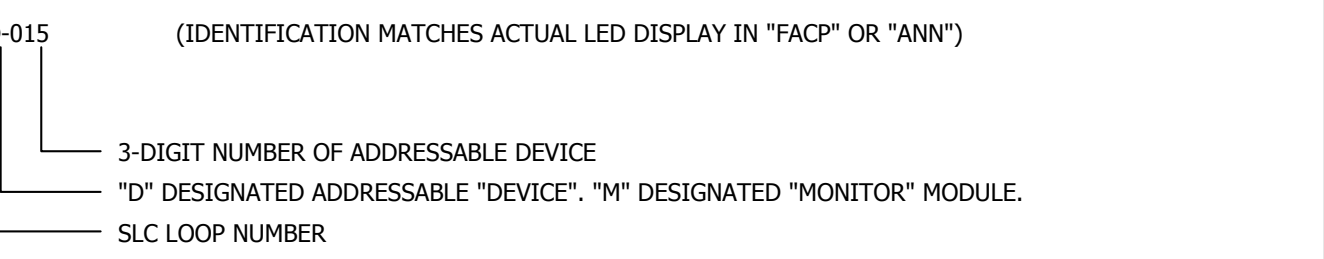
SEQUENCE OF OPERATION

ACTION	DEVICE	THROUGHOUT BUILDING SOUND GENERAL ALARM	SOUND TROUBLE BUZZER	ACTIVATE ADDRESSABLE MODULE FOR MONITORING	ANNUNCIATE AT PANEL	TRANSMIT TROUBLE SIGNAL FOR ALL APPLICABLE COMPONENTS TO SUPERVISING STATION	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	ACTIVE REMOTE POWER SUPPLY PANEL (PSS)	DROP HORN BELL, TONES, SPEAKERS & VISUAL ALARMS FROM F.A. SYSTEM	SHUT DOWN HVAC UNIT
INDICATING CIRCUIT FAILURE			●		●					
INITIATING CIRCUIT FAILURE			●		●					
AC / BATTERY FAILURE			●		●					
F.A. SYSTEM LOW BATTERY			●		●					
FLOW SWITCH		●				●	●	●	●	
TAMPER SWITCH			●				●			
SMOKE PIV DETECTORS		●						●	●	
HEAT DETECTORS		●						●	●	
CARBON MONOXIDE DETECTOR		●						●	●	
DUCT DETECTORS			●	●		●	●	●	●	●
ISOLATOR LINE TROUBLE		●			●					
EARTH GROUND FAULT		●				●				
ELECTRICAL ROOM SMOKE		●		●	●	●	●	●	●	

FIRE ALARM N.A.C. DEVICE NUMBERING KEY



FIRE ALARM ADDRESSABLE DEVICE IDENTIFICATION KEY



PROJECT NOTES

GENERAL NOTES	
1.	ALL WIRE SHALL BE IN CONDUIT PER CFC ARTICLE 907.
2.	MANUAL PULL STATIONS TO BE MOUNTED AT 48 IN. ABOVE FLOOR SURFACE TO THE CENTER OF THE STATION. (DETAIL 1)
3.	MOUNT AUDIO VISUAL 80 IN. ABOVE FINISHED FLOOR TO THE BOTTOM OF THE LIGHT OR 7' FROM BELOW CEILING WHICH EVER IS LOWEST. PER NFPA 72 CHAPTER 18, CFC 907.1.2.
4.	MAINTAIN CFC WIRING COLOR CODES.
5.	ALL WIRING TO BE AS CALLED FOR IN N.E.C. ARTICLE 760 & CFC 907.
6.	IDENTIFY THE FIRE ALARM CIRCUIT AT THE ELECTRICAL PANEL IN RED, PROVIDE A BREAKER LOCK-ON DEVICE. CFC 907.6
7.	DEVICE TYPES AND LOCATIONS ARE SHOWN AS CALLED FOR ON THE BID DOCUMENTS.
EXISTING ADMINISTRATION BUILDING	
ALTERATIONS SHALL COMPLY WITH SFM ADOPTED SECTIONS OF CBC 2022, CHAPTER 35	
A.	OCCUPANCY TYPE : B - 2
B.	CONSTRUCTION TYPE : V - B
C.	NUMBER OF STORIES: ONE
D.	ALLOWABLE BUILDING HEIGHT: 15'-0"
E.	AREA ANALYSIS:
1.	ACTUAL FLOOR AREA: 16,943 G.S.F. EXCLUDING ROOF OVERHANG 5,258 G.S.F. INCLUDING ROOF OVERHANG 22,201 G.S.F. TOTAL
2.	BASIC ALLOWABLE AREA: 9,000 S.F. (TABLE 506.2)
ALLOWABLE AREA INCREASES PER UBC 2022 SECTION 506.3.3 SEPARATION ON ALL SIDES. EXISTING ALLOWABLE AREA 6,750 S.F. PER TABLE NO. 5-C MAY BE INCREASED 75 PERCENT.	
ALLOWABLE AREA = 15,570 S.F.	
F.	FIRE SPRINKLERS: NONE EXIST UPGRADE PROVIDES SPRINKLERS ALLOWABLE AREA = 24,570 S.F.

REQUIRED NOTES

THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRIC CODE.

INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE CALIFORNIA DEPT. OF THE STATE ARCHITECT'S FIRE MARSHAL.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE SYSTEM SHALL BE MADE BY INSTALLATION TECHNICIAN PER CFC 901.2.1, PROVIDE STATEMENT OF COMPLETION WHEN WITNESSING FOR THE FINAL TEST BY IOR & LOCAL AHD. IN THE PRESENCE OF THE LOCAL AHD IOR SSS FIELD ENGINEER, OWNER AND ENGINEER OF RECORD.

A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.

ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.

A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND RETAINED ON SITE/PREMISES FOR 5 YEARS PER CFC 901.6.2 / TITLE 19 USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES SHALL BE APPROVED BY THE DSA FLS.

ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE, OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.

A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.

COMPLETE THE NFPA 72 RECORD OF COMPLETION, TESTING ALL DEVICES AND APPLIANCES. PROVIDE A COPY OF THE COMPLETED RECORD OF COMPLETION TO THE OWNER (SCHOOL DISTRICT), ARCHITECT, LOCAL FIRE AUTHORITY AND DSA VIA THE PROJECT INSPECTOR.

F.A. RACEWAY

MINIMUM CONDUIT SIZE SHALL BE 3/4" DIAMETER AND SHALL NOT EXCEED 40% FILL. ALL FA CONDUITS SHALL BE RED IN COLOR.

FIRE ALARM ZONE SCHEDULE

THE NEW FIRE ALARM SYSTEM IS A ESTA HEDWARD ADDRESSABLE TYPE. EACH INITIATING DEVICE IS ANNUNCIATED AS A UNIQUE ADDRESS OR ZONE AT THE PANEL AND ANNUNCIATOR.

SCOPE OF WORK

PROVIDE A NEW ADDRESSABLE FIRE ALARM SYSTEM FOR BUILDING, AUTOMATIC TYPE FOR COMPLETE BUILDING INCLUDING VOICE EVACUATION & CONNECT TO CAMPUS WIDE SYSTEM.
--

MONITOR MODULES SHALL BE INSTALLED WITHIN 36" OF MONITORED DEVICE.

SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36" OF SUPPLY HVAC REGISTERS.

ALL WALL PENETRATIONS MUST BE VERIFIED BY SPECIAL FIELD INSPECTORS SINCE STRUCTURE IS RISK CATAGORY III

ABBREVIATIONS

BP	BACKFLOW PREVENTER	FPL	FIRE-POWER LIMITED
CSFD	COMBINATION SMOKE / FIRE DAMPER	FPLP	FIRE-POWER LIMITED PLENUM
EOL	END-OF-LINE RESISTOR	FPLR	FIRE-POWER LIMITED RISER
ER	EXISTING DEVICE TO BE REMOVED	TP	TWISTED PAIR
ERN	EXISTING DEVICE TO BE REMOVED AND REPLACED WITH NEW	TSP	TWISTED SHIELDED PAIR
ERR	EXISTING DEVICE TO BE REMOVED AND REINSTALLED	THHN	"T" THERMOPLASTIC INSULATED CABLE "TH" MEANS THAT THE WIRE IS HEAT RESISTANT AND CAN WITHSTAND A HIGHER TEMPERATURE (UP TO 154° F)
EX	EXISTING DEVICE TO REMAIN	"N" NYLON COATING THAT COVERS WIRE INSULATION	
FACP	FIRE ALARM CONTROL PANEL		
FATC	FIRE ALARM TERMINAL CABINET	THWN	"T" THERMOPLASTIC INSULATED CABLE "H" MEANS WIRE IS HEAT RESISTANT "W" MEANS WIRE IS APPROVED FOR DAMP/WET LOCATIONS
LRM	LOCAL RAIL MODULE	"N" NYLON COATING THAT COVERS WIRE INSULATION	
N	NEW DEVICE		
PIV	POST INDICATOR VALVE	WP	WEATHERPROOF DEVICE
RR	EXISTING DEVICE TO BE REMOVED AND RELOCATED		

WIRE LEGEND

CALLOUT	USAGE	TYPE
A	ADDRESSABLE CIRCUIT	2#18 FPLR (UNSHIELDED) TWISTED-PAIR, SOLID
S	SPEAKER CIRCUIT	2#12 FPLR (UNSHIELDED) TWISTED-PAIR, SOLID
U	UNDERGROUND CIRCUIT	4#16 AERIAL CABLE DB FPL (UNSHIELDED) GEL FILLED
V	STROBE CIRCUIT	2#14 THHN (UNSHIELDED) STRANDED

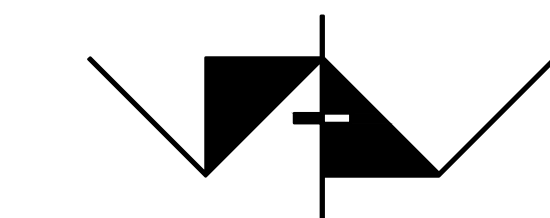
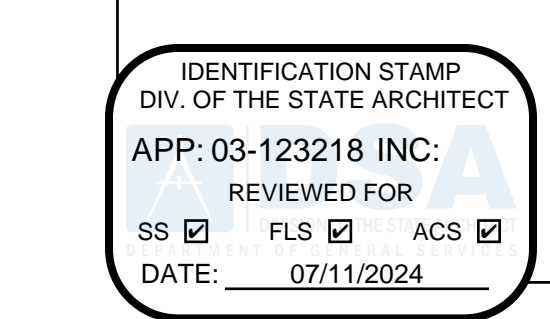
CONDUIT WIRE FILL CHART				BOX SIZE VS. NUMBER OF WIRES PER C.E.C.			
CONDUIT SIZE		MAXIMUM CONDUCTORS		J-BOXES			
INCHES		#18 AWG	#16 AWG	#14 AWG	3-1/4X1-1/2 OCTAGON	#14	#12
1/2"		19	15	13		5	4
3/4"		34	26	24		5	5
1"		55	43	39		8	7
1 1/4"		97	76	69		11	10
1 1/2"		132	104	94		15	14
2"		216	169	154		3	3
				4X2-1/8X1-7/8	5	4	
				4X2-1/2X2-1/2	5	5	

* RECOMMENDATION FOR CONDUIT SIZE BY C.E.C.

GENERAL NOTES

1.	ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH C.E.C., ARTICLE 760, POWER LIMITED FIRE PROTECTIVE SIGNALING CIRCUITS.
2.	UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST WITHIN THE SCOPE OF WORK AS SHOWN ON THIS SUBMITTAL PACKAGE SHALL BE MADE IN THE PRESENCE OF THE FIRE MARSHAL.
3.	A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE FIRE MARSHAL.
4.	ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
5.	ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.
6.	FIRE ALARM DEVICES SHALL BE INSTALLED PER N.F.P.A. 72.
7.	ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION.
8.	WIRING SHALL NOT BE LOOPED THROUGH DEVICES; WIRE MUST BE CUT AT EACH DEVICE.
9.	ALL WIRING TO BE INSTALLED IN CONDUIT. CONDUIT SIZE TO BE 3/4" MINIMUM UNLESS OTHERWISE NOTED.
10.	ALL CONDUCTORS ARE COPPER.
11.	SYSTEM IS POWER LIMITED.
12.	POINT AND COMMON ANNUNCIATION AND T-TAPPING PROHIBITED.
13.	ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED TO MANUFACTURERS SPECIFICATIONS.
14.	TO ENSURE THAT AUDIBLE PUBLIC MODE SIGNALS ARE CLEARLY HEARD, UNLESS OTHERWISE PERMITTED BY 18.4.3.2 THROUGH 18.4.3.5, THEY SHALL HAVE A SOUND LEVEL AT LEAST 15 DB ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 DB ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5 FT (1.5 m) ABOVE THE FLOOR IN THE AREA REQUIRED TO BE SERVED BY THE SYSTEM USING THE A-WEIGHTED SCALE (dBA) PER NFPA 72 SECTION 18.4.3.1.
15.	AREAS HAVING MORE THAN TWO STROBES IN THE FIELD OF VIEW SHALL BE SYNCHRONIZED 2016 NFPA 72 18.5.5.4.2
16.	SMOKE DETECTOR AND HEAT DETECTOR LOCATIONS ARE BASED ON SMOOTH CEILING WITH MAXIMUM HEIGHT OF 10 FEET UNLESS OTHERWISE NOTED.
17.	WALL-MOUNTED STROBES SHALL HAVE THEIR BOTTOMS NOT LESS THAN 80 INCHES ABOVE FINISHED FLOOR AND NO GREATER THAN 96 INCHES ABOVE FINISHED FLOOR.
18.	THE RECORD OF COMPLETION DOCUMENTATION SHALL BE COMPLETED BY THE INSTALLING CONTRACTOR AND SUBMITTED TO THE CONCLUSION OF THE JOB, THE RECORD OF COMPLETION DOCUMENTATION SHALL BE PERMITTED TO BE PART OF THE WRITTEN STATEMENT REQUIRED IN 7.5.2 AND PART OF THE DOCUMENTS THAT SUPPORT THE REQUIREMENTS OF 7.5.8. WHEN MORE THAN ONE CONTRACTOR HAS BEEN RESPONSIBLE FOR THE INSTALLATION, EACH CONTRACTOR SHALL COMPLETE THE PORTIONS OF THE DOCUMENTATION FOR WHICH THAT CONTRACTOR HAS RESPONSIBILITY. 2016 NFPA 72 7.5.6.2.
19.	FIRE ALARM SIGNAL SHALL MEET ANSI S3.41, AUDIBLE EMERGENCY EVACUATION SIGNAL (TEMPORAL PATTERN).
20.	POWER FOR THE FIRE ALARM CONTROL PANEL IS TO BE PROVIDED BY A DEDICATED CIRCUIT BREAKER. INDICATE LOCATION OF THIS BREAKER AT THE FACP. BREAKER TO BE RED AND LABELED "FIRE ALARM CONTROL DISCONNECT".
21.	THE LOCATION OF THE BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE CONTROL UNIT. SYSTEM CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AS TO ITS PURPOSE IN ACCORDANCE WITH THE FOLLOWING: (1) "FIRE ALARM" FOR FIRE ALARM SYSTEMS; (2) "EMERGENCY COMMUNICATIONS" FOR EMERGENCY COMMUNICATIONS SYSTEMS; (3) "FIRE ALARM/EC" FOR COMBINATION FIRE ALARM AND EMERGENCY COMMUNICATIONS SYSTEMS; FOR FIRE ALARM AND/OR SIGNALING SYSTEMS, THE CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, THE RED MARKING SHALL NOT DAMAGE THE OVERCURRENT PROTECTIVE DEVICES OR OBSCURE THE MANUFACTURER'S MARKINGS. THE CIRCUIT DISCONNECTING MEANS SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL. 2016 NFPA 72 10.6.5.1-5.

DIVISION OF THE STATE ARCHITECT



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Ventura County Community College

PROJECT TITLE

MOORPARK COLLEGE ADMINISTRATION BUILDING RENOVATION

7075 CAMPUS ROAD
MOORPARK, CA 91320

CONSULTANT

LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS

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STAMPS/SEALS



12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:

FIRE ALARM GENERAL NOTES AND DEVICES LEGEND

PROJECT NO: 21-MPC-040 PROJECT ARCH: LKDS CHECKED: SHEET NUMBER:

E500

DATE: 12/08/23 SHEET: OF: IF THIS SHEET IS NOT 30" X 42", IT IS NOT FULL SIZE. SCALE ACCORDINGLY LALF 21375

TIME: 8:33 am
DATE: 18 December 2023
PATHNAME: G:\21\375\EL\Sheets
DRAWING FILENAME: 21-375E501
DRAFTER: CW01

BATTERY SIZING CALCULATIONS

Project Name: Moorpark College Admin

Panel Name: FACP

oject Number:

Area Served: Entire Admin Bldg

Requirement for standby current (hours): 24 hrs.

Design Supervisor Current =

Requirement for alarm current (minutes): 15 min.

Design Alarm Current =

Spare Battery Capacity (percentage): 20%

%

Additional Capacity Current =

Battery AH requirement =

Battery Provided

PANEL EQUIPMENT

Quantity	Device	Standby (ma) Current	Alarm (ma) Current	TOTAL (ma) Standby Current	TOTAL (ma) Alarm Current
1	4-CPU/ 3-PPS/ 4-PPS	230	230	230	230
1	4-AUDTELS	85	101	85	101
1	4-ANNCPU	145	145	145	145
1	4-ANNAUDTEL	98	98	98	98
1	4-CPUGRPH	123	123	123	123
1	4-PPS/ M configured as BPS	45	45	45	45
	4-PPS/ M configured as BBC	45	45	0	0
1	3-BPS/ M(230)	50	50	50	50
	3-BBC/ M	70	70	0	0
1	4-24L series	4	10	4	10
	3-xx series	2	2	0	0
	3-LDSM	5	5	0	0
1	4-LCD	50	110	50	110
	4-LCDAUDTEL	50	110	0	0
	4-3LCD	40	93	0	0
	4-NET-TP(HC)	32	32	0	0
1	4-NET-CAT/ 4-FWAL-CAT	27	27	27	27
1	4-NET-SM/ 4-FWAL-SM	35	35	35	35
	4-NET-MM/ 4-FWAL-MM	35	35	0	0
	4-NET-SMH/ 4-FWAL-SMH	35	35	0	0
	4-NET-SMU/ 4-FWAL-SMU	35	35	0	0
	4-NET-SMD/ 4-FWAL-SMD	35	35	0	0
	4-FWAL-1/2/3/4	130	130	0	0
	4-ASDCPU	130	130	0	0
	4-USBHUB	44	44	0	0
1	4-NET-AD	130	130	130	130
1	4-NET-XT	110	110	110	110
1	4-MIC	8	38	8	38
	4-FT	9	168	0	0
	4-COMREL	0	8	0	0
4	3-SDDC1, 3-SDDC2	144	204	576	816
	3-SDDC1, 3-SDDC2	264	336	0	0
1	3-IDC8/ 4	48	408	48	408
	3-OPS	53	147	0	0
1	3-MODCOM	60	95	60	95
	3-MODCOMP	60	95	0	0
	CDR-3	60	100	0	0
	3-ZA20B/ A	62	1120	0	0
1	3-ZA40B/ A	62	2480	62	2480
	3-ZA95	85	5540	0	0
1	3-BPS/ M	50	50	50	50
	3-BBC/ M	70	70	0	0
	Remote Annunciators			0	0
	4-ANNCPU	145	145	0	0
1	4-LCDANN	50	110	50	110
	4-24L	4	10	0	0
	4-24L1S	4	10	0	0
	4-24L1S	4	10	0	0
	4-24L2S	4	10	0	0
	4-2ANN	195	255	0	0
	4-4ANN	145	145	0	0
	4-6ANN	145	145	0	0
	4-8ANN	145	145	0	0
	4-16ANN	145	145	0	0
	4-24ANN	145	145	0	0
	4-ANNAUDTEL	98	98	0	0
1	4-LCDAUDTELANN	50	110	50	110
1	4-MIC	8	38	8	38
	4-FT	9	168	0	0
	4-NET-CAT	27	27	0	0
1	4-NET-TP	32	32	32	32
	4-NET-TP-HC	32	32	0	0
	4-NET-MM	35	35	0	0
	4-NET-SM	35	35	0	0
	4-NET-SMD	35	35	0	0
	4-NET-SMH	35	35	0	0
	4-NET-SMU	35	35	0	0
PANEL TOTALS				2076	5391

FIELD EQUIPMENT					
Quantity	Device	Standby (ma) Current	Alarm (ma) Current	TOTAL (ma) Standby Current	TOTAL (ma) Alarm Current
44	Speaker Strobe 15cd G4SWF		55		2420
28	Speaker Strobe 30cd G4SWF		78		2184
3	Speaker Strobe 75cd G4SWF		153		459
					0
					0
					0
FIELD TOTALS				0	5063
GRAND TOTALS (field & panel)				Standby 2076	Alarm 10454

Formula: [(A + B) x C] + [(D + E) x F] x G = Minimum Amp-Hour Battery Capacity

Where: A = Internal panel standby current (amps).
B = External device standby current (amps).
C = Duration panel must remain operational (hours).
D = Alarm current (amps).
E = External device alarm current (amps).
F = Duration panel must remain in alarm after standby period ends (hours).
G = Spare battery capacity (percentage).

AMPLIFIER 1 SPEAKER CALCULATION

LOCATION	SPEAKER SIRCUIT	QUANTITY OF SPEAKERS	LOAD PER SPEAKER	TOTAL WATTS PER CIRCUIT
ADMIN	SC	8	2.00 WATTS	16.0
		66	.25 WATTS	18.5
		3	.5 WATTS	1.5
			TOTAL WATTS	36.0
			AMPLIFIER PROVIDED	40
			SPARE WATTAGE	4

AMPLIFIER CALCULATIONS

SCALE: NONE

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- E501

SCOPE OF WORK

PROVIDE A NEW ADDRESSABLE EVACUATION FIRE ALARM SYSTEM FOR SPRINKLERED BUILDING, AUTOMATIC TYPE COMPLETE BUILDING SYSTEM. A SPEAKER SYSTEM WILL BE EMPLOYED FOR VOICE NOTIFICATION. FA SYSTEM SHALL BE CONNECTED TO CAMPUS WIDE EDWARDS EST SYSTEM FA SYSTEM.

FIRE ALARM ZONE SCHEDULE

THE NEW FIRE ALARM SYSTEM IS A EST4 EDWARD ADDRESSABLE TYPE. EACH INITIATING DEVICE IS ANNUNCIATED AS A UNIQUE ADDRESS OR ZONE AT THE PANEL AND ANNUNCIATOR.

TYPE	CONDUCTORS	SIZE	TYPE CABLE	CIRCUIT DESCRIPTION	WIRE COLOR SCHEME	LISTING
A	2	#18AWG	FPL	ADDRESSABLE DEVICE CIRCUIT	RED (+), BLACK (-)	UL AQ224 1424/581 WEST PENN
2A	4	#18AWG	FPL	ADDRESSABLE DEVICE LOOP	RED (+), BLACK (-), BLUE (+), BROWN (-)	UL AQ224 1424/581 WEST PENN
B	2	#12AWG	THHN	SPEAKER CIRCUIT (24V)	RED (+), BLACK (-)	UL 83
C	2	#14AWG	THHN	STROBE CIRCUIT	YELLOW (+), BLUE (-)	UL 83

VOLTAGE DROP CALCULATIONS - SPEAKER APPLIANCE CIRCUITS (24V CONDUITS)

PANEL ID	CKT #	1/4 WATT	1/2 WATT	1 WATT	2 WATT							(I) TOTAL CURRENT	LENGTH FT.	CIR MILS 12awg	VOLTS DROPPED	+ 24(V)	x 100	% VOLTAGE DROP		
AMP	V1	18	0.306	3	0.102	0.000	2	0.264	0.000	0.000	0.000	0.000	0.672	x 225	x 21.6	= 6530	= 0.500	x 24	x 100	2.1
AMP	V2	17	0.289	0.000	0.000	2	0.264	0.000	0.000	0.000	0.000	0.000	0.553	x 260	x 21.6	= 6530	= 0.476	x 24	x 100	2.0
AMP	V3	13	0.221	0.000	0.000	2	0.264	0.000	0.000	0.000	0.000	0.000	0.485	x 245	x 21.6	= 6530	= 0.406	x 24	x 100	1.7
AMP	V4	18	0.306	0.000	0.000	2	0.264	0.000	0.000	0.000	0.000	0.000	0.570	x 230	x 21.6	= 6530	= 0.408	x 24	x 100	1.7

I x FEET x 21.6 = VOLTAGE DROPPED
C.M.
I = TOTAL CIRCUIT CURRENT
FEET = ONE WAY DISTANCE IN FEET MEASURED FROM SOURCE TO THE LAST DEVICE
21.6 = FORMULA CONSTANT
C.M. = CROSS SECTIONAL AREA OF CONDUCTOR IN CIRCULAR MILS. SEE CHART BELOW

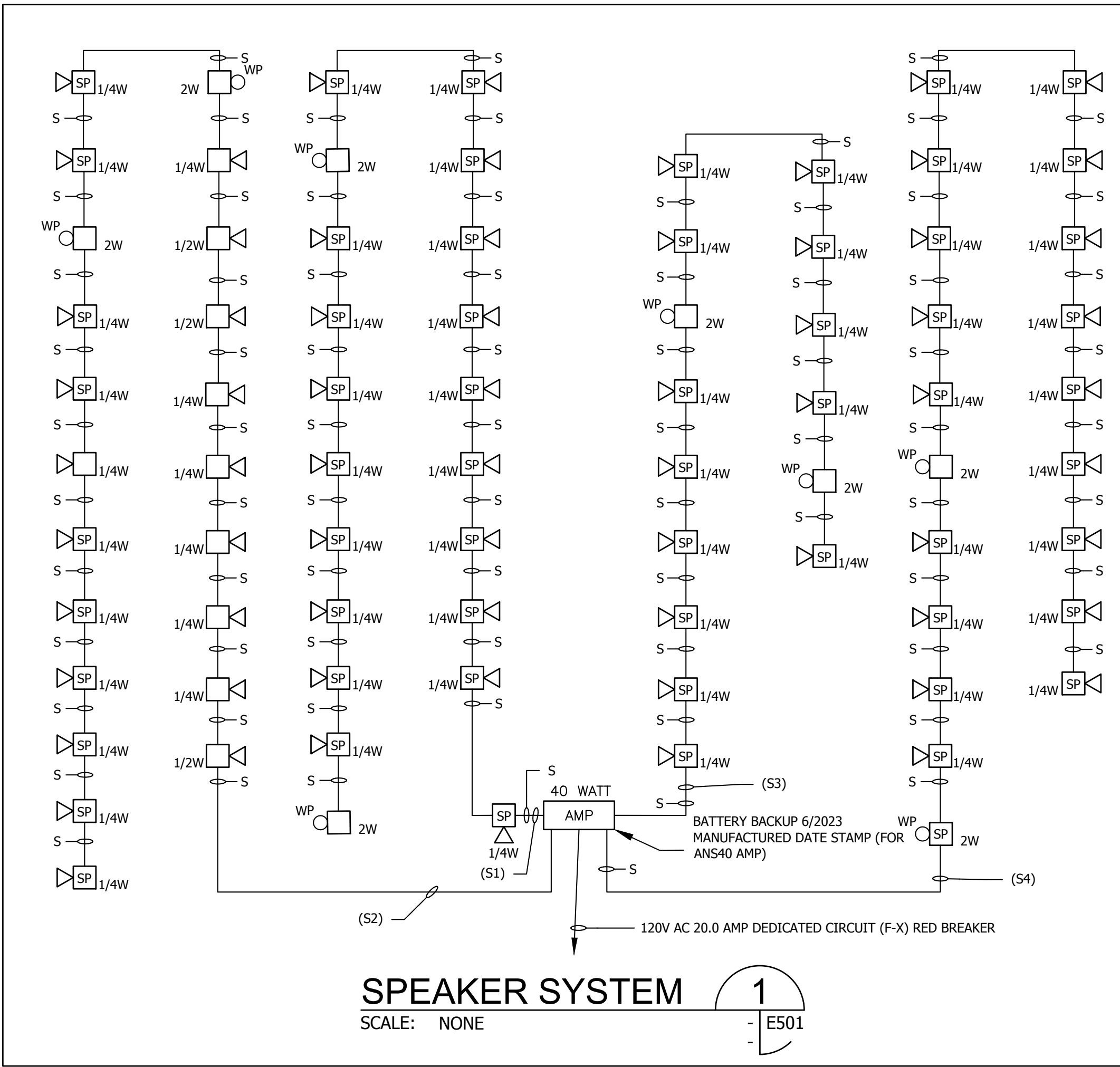
WIRE SIZE	WIRE RESISTANCE	CIR. MILS
AWG 12	1.59 PER 1000'	6530
AWG 14	2.52 PER 1000'	4110
AWG 16	4.02 PER 1000'	2580
AWG 18	6.39 PER 1000'	1620

VOLTAGE DROP CALCULATIONS - VISUAL APPLIANCE CIRCUITS

PANEL ID	CKT #	15cd STROBE	30cd STROBE	75cd STROBE	110cd STROBE	15cd STROBE	30cd STROBE	75cd STROBE	110cd STROBE	102cd STROBE	(I) TOTAL CURRENT	LENGTH FT.	CIR MILS 14awg	VOLTS DROPPED	+ 24(V)	x 100	% VOLTAGE DROP				
MOD1A	S1	0.043	0.063	0.107	0.148	0.055	0.078	0.153	0.185	0.172	0.000	0.935	x 190	x 21.6	= 4110	= 1.089	x 24	x 100	4.5		
MOD1B	S2	0.000	0.000	0.000	0.000	14	0.770	9	0.702	1	0.153	0.000	0.935	x 169	x 21.6	= 4110	= 0.830	x 24	x 100	3.5	
MOD1C	S3	0.000	0.000	0.000	0.000	2	0.110	9	0.702	2	0.306	0.000	0.000	1.118	x 187	x 21.6	= 4110	= 1.099	x 24	x 100	4.6
MOD1D	S4	0.000	0.000	0.000	0.000	11	0.605	8	0.624	0.000	0.000	1.229	x 158	x 21.6	= 4110	= 1.021	x 24	x 100	4.3		

I x FEET x 21.6 = VOLTAGE DROPPED
C.M.
I = TOTAL CIRCUIT CURRENT
FEET = ONE WAY DISTANCE IN FEET MEASURED FROM SOURCE TO THE LAST DEVICE
21.6 = FORMULA CONSTANT
C.M. = CROSS SECTIONAL AREA OF CONDUCTOR IN CIRCULAR MILS. SEE CHART BELOW

WIRE SIZE	WIRE RESISTANCE	CIR. MILS
AWG 12	1.59 PER 1000'	6530
AWG 14	2.52 PER 1000'	4110
AWG 16	4.02 PER 1000'	2580
AWG 18	6.39 PER 1000'	1620



1
- E501

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123218 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/11/2024

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ARCHITECTS, INC.

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Ventura County Community College

PROJECT TITLE
**MOORPARK COLLEGE
ADMINISTRATION
BUILDING RENOVATION**

7075 CAMPUS ROAD
MOORPARK, CA 91320

CONSULTANT

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STAMPS/SEALS

12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:
**FIRE ALARM
GENERAL NOTES
AND DEVICES
LEGEND**

PROJECT NO.: 21-MPC-040 PROJECT ARCH:
DRAWN: LK/DS CHECKED:
SHEET NUMBER:

E501

DATE: 12/08/23 SHEET: OF

F THIS SHEET IS NOT 36" X 48", IT IS NOT FULL SIZE. SCALE ACCORDINGLY LALF 21-375

Reporting System Snapshots

EST4 can generate an abundance of stock reports, and users may also design their own within the configuration utility. Printed reports can be generated locally at any control panel, node, or annunciator. Familiar USB connections allow for quick uploading to laptops or transfer to locally-connected printers. Reports can also be sent from any of these locations to system printers elsewhere on the network.

EST4 allows the selection of report data right down to the device level by means of pre-built templates, custom reports, or even on-the-fly using the CU configuration tool. Report content is information rich, detailed, and meaningful. This meticulous report formatting and organization results in highly understandable system overviews and useful deep dives into underlying system configuration data.

Event History Timelines

While system status reports are invaluable for generating snapshots of important data, EST4's event history can paint a vivid picture of the system over time. A giant 20,000-event repository comprises EST4's history, which could span back as far as the system's commissioning. Half of the history can be set aside exclusively for Alarms, ensuring that records of the most important events are preserved. To support forensic investigations, up to 10,000 events can be locked and preserved so as not to be overwritten.

A large variety of pre-built history reports are available for quick access to vital records filtered by day, week, month or year. Custom reports help pinpoint records by date, time, location, device type and more. Together EST4's large history capacity and flexible history reporting serve to create vital timelines that aid in system maintenance and forensic investigations.

Value-added Forward Migration

Easy migration paths ensure an economical transition from EST3 platforms to EST4's next-generation technology. To start, configuration data is easily transferable from an existing EST3 project to an EST4 upgrade. Hardware is also easy to migrate: all Signature Series devices, modules, and service tools are fully supported by EST4, as are Genesis series notification appliances – no rewiring is required.

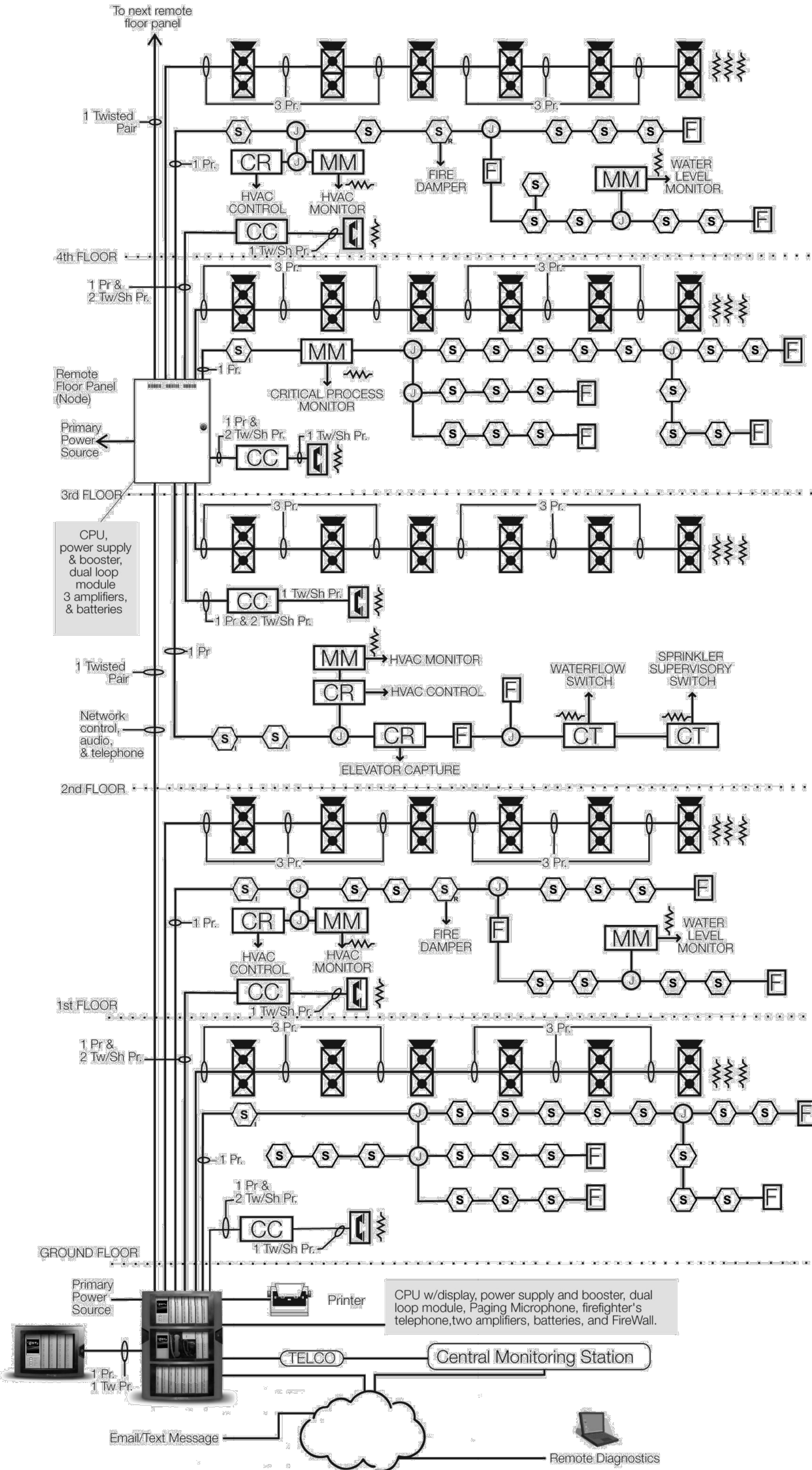
Existing network cabling is also reusable for upgrades. EST4 even supports network messaging plus live paging with legacy wiring. In fact, simple twisted pair wiring, previously useable only for panel-to-panel data communications can, with EST4, support panel data, paging, as well as telephone. This means that voice audio capability may be added to a system originally wired only for network panel to panel communications – without pulling any additional wire.

EST4 also employs EST3 power supplies, audio amplifiers, MNEC equipment, CAB Series wallboxes, and most local rail modules. This makes the move to EST4 a cost-effective choice for existing installations, and new projects alike. It is a move that will benefit system efficiency and scalability now and for many years into the future.

Agency Approvals

- UL864 10th edition - UOJZ, UUKL, SYZV, UOQY
- UL2017 2nd edition - FSZI
- UL2572 2nd edition - PGWM
- ULC-S527-11 3rd edition - UOJZ, UULK7, SYXV7
- ULC-S576-14 1st edition - PGWM7
- ULCS-S559-13 2nd edition - DYR7

Riser Diagram



EST4 Emergency Communications Platform

Overview

EST4 is the premier emergency communications system from EDWARDS. Though it represents a small change in name from its predecessor, EST4's leap forward in capability is anything but diminutive. This exciting flagship system features a whole new network architecture that makes fire alarm, mass notification, and building integration easy to implement, quick to service, and secure in the face of today's cyberthreats.

From its thoughtfully-crafted interface to its advanced connectivity and extensive system capacity, EST4 demonstrates that form and function are inseparable elements of good system design. It provides systems engineers with the tools they need to create projects that exceed expectations and have plenty of room to grow, all while respecting facility budgets and construction schedules. The net result is an emergency communications system equally suited to new and retrofit projects; a platform that keeps property safe and steers people clear of danger.

Features

- Investment-forward Platform Designed for the Future**
Protects the past with backwards compatibility for EST3 retrofits, flexible feature set.
- On-board Webserver**
Remote device-independent access to system status reports.
- Built-in E-mail and E-mail-to-SMS Messaging**
Instant notification of specific event types sent to appropriate personnel.
- Large Full-color LCD Touch Screen with Tactile Buttons**
Fast, intuitive access to service and responder functions.
- Five-color LED Indicators**
System status at a glance, select the color needed during programming, reduces replacement part inventory, maximizes use of available infrastructure.
- Network data, audio data, and telephone data share a single twisted pair or single fiber strand**
Up to 75 percent less cabling, substantial cost savings in material and labor.
- Backwards Compatibility with EST3**
Wiring, devices, and most local rail modules are backward compatible, providing easy migration paths, economical transition to new technology.
- Existing Systems Supporting Only Network Data can also Support Voice Audio**
Upgrades add value and extend capabilities in retrofit situations.

continued on next page...

Remote access and notification

System access to EST4 doesn't end when the cabinet door swings shut. A webserver in each EST4 panel allows authenticated users to gain access to day-to-day reporting. EST4 webservices are device-independent and support all major browsers on PC and MAC operating systems, including mobile platforms – without the need for special apps or other software. Users can log into the secure EST4 webserver and run system reports. Like any web page, system reports can be copied, printed, saved, and e-mailed. The system report data can also be saved in XML form and used in external spreadsheet applications for further processing.

EST4 keeps up with the fast pace of mobile computing with its built-in e-mail services and e-mail-to-text-message capabilities. These ensure that key personnel receive instant notification of relevant changes of system state. Technicians can be dispatched to the site within minutes of a service event, while safety and security personnel can arrive concurrently with first responders should the system go into alarm.

Networking

Supporting these important interface developments is a robust system underpinned by solid networking and exceptional security. Thanks to its self-configuring network, EST4 easily deploys and configures without intervention by network administration personnel. It adapts to a wide range of network configurations, including rings, stars, redundant segment, and full mesh topology. The network even allows changes in the physical layer from copper to fiber, and employs hot-swappable network connections at control panels and annunciators. All control panels and annunciators giving a consistent appearance, fewer cabinet parts.

The advanced technology behind EST4's network is powerful enough to drive the biggest installations viable today. It pushes wire runs into miles, and addressable points into the many of thousands. A single IPv6 mesh network, for example, can support copper wire runs of nearly a mile between nodes puts detection, alarm, notification, and audio into the furthest reaches of the tallest buildings and broadest campuses. Fiber optic cable handles multiple miles between nodes, while carrying all system data on a single fiber strand.

Features (continued from page 1)

- Self-configuring Network**
No intervention by system admin personnel required.
- Hot Swappable Network Connections**
Change from copper to fiber with no system down-time.
- 480 Mbps USB Ports on Panels**
Fast configuration updates, local printing.
- Advanced Upload/download Protocol**
No system down-time during updates.
- Firewalls meet the latest Advanced Encryption Standards**
Front-line defense against threats carried by outside networks. NIST - AES Validation #4806.
- Extended Paging Groups**
Audio reaches occupants based on location and movement.
- Local and Remote Reporting**
Generate reports on-site, at system printers, or remotely via webserver.
- 20,000-event History**
Invaluable timeline data for service and investigative purposes.
- Cabinet Doors may be used for Nodes and Annunciators**
Cabinet Doors may be used for Panels and Annunciators giving a consistent appearance, fewer cabinet parts.

Application

From the moment the control panel is powered up it is apparent that EST4 is designed for ease of use. Its powerful user interface bears this out by allowing operators to use the system with a level of fluidity that naturally guides them through high and low level system operations with efficiency and confidence.

EST4 does this by combining the simplicity of color LCD touchscreen technology with at-a-glance programmable color display strips and tactile direct-access control buttons. These input points, together with meticulously-engineered responder and service functionality, allow EST4's interface to provide clear navigation paths, instant-access shortcuts, and context-sensitive display screens. This means that responders have quick access to vital system event information and control functions, while service personnel can dive deeply into system programming unencumbered by complicated operational routines.

EST4's LCD large touch-screen display is the window into system operation and maintenance functions. It is large enough to support a graphical tree view of the system. The tree closely matches the system's physical layout, so there's no need for look-up tables to find specific devices. This is invaluable to technicians and building service personnel who can pinpoint the location of an off-normal device with a glance at the on-screen tree.

The EST4 LCD is capable of displaying 262,144 colors. EST4's LCD display screen will display eight events without scrolling. In addition to touch-screen capability, the display assembly includes four dedicated easy-access rubber buttons for control functions most needed for emergency response.

Up to 576 tactile switches and 576 LED indicators may be mounted in a single EST4 cabinet for control and annunciation purposes. Control Display Modules (CDMs), comprise a column of programmable buttons accompanied by one or two LED indicator positions per button. Indicator-only modules comprise up to 24 indicators. Switch and indicator module LEDs can be set to any of five colors, providing an additional level of feedback.

Print-anywhere slide-in label inserts give control/display strips context with color-coded shading and other effects. They can be localized for regional language requirements, and printed on-the-fly to accommodate system changes as they are implemented.

System design benefits greatly from this huge capacity. Minimal cabling requirements take scalability a step further. With EST4 a single copper pair or single fiber supports panel network data, audio data, as well as telephone data. This cuts cable counts by up to 75 per cent. Meanwhile, multiple firefighter's telephones risers are accommodated on the network, which allows them to be deployed at much further distances compared with analog audio transmission methods.

Reduced network cabling not only boosts system efficiency by requiring fewer physical connections, it also saves money by reducing material and labor costs. This means that new EST4 installations benefit from lower cable counts, while retrofits may be able to be upgraded to support audio and telephones without the need to pull additional cable.

For new installations EST4 delivers flexibility. It can use twisted pair wire, Multi-mode fiber, Single Mode fiber, and even CAT5 cable. In fact CAT5 is not restricted to Class N applications. It also meets the stringent requirements of Class A, Class B, and Class X. When using CAT5, distances are not limited to 328 ft. (100 m). EST4's CAT5 support includes a solution that allow up to 3,280 ft. (1 km) of cable length.

Cybersecurity

The security and integrity of the EST4 network is paramount to its ability to maintain systems operations in the face of outside threats. The most vulnerable point of contact for any integrated building system is where it meets the facility owner's existing TCP/IP network. Ironically it is this gateway, which enhances and expands system capability beyond the communications network, that also exposes the system to some of its most critical vulnerabilities.

To combat outside threats, every EST4 panel can deploy proxy firewalls that effectively insulate the internal fire network from external Intranet or internet connections and the malware, ransom ware, and denial-of-services attacks that may be raging beyond. The EST4 proxy firewall uses Advanced Encryption Standard (AES) encryption and secure protocols making it FIPS Pub. 197 certified. The FIPS, Federal Information Processing Standards, are the most current and most advanced encryption protocols administered by the National Institute of Standards and Technology (NIST).

EDWARDS recommends the installation of robust commercial firewall between the facilities intra-net and the Internet. To further enhance network security, an optional tamper switch may be installed on EST4 cabinet doors. This alerts the system when equipment enclosures are accessed.

Programming

EST4 is an open book for authorized programmers. Configuration data travels in both directions: it can be downloaded to the panel and uploaded to a laptop. This two-way movement of configuration files allows technicians to upload and backup programming before making changes to the system. By doing so, the tech ensures that trustworthy restore points are available at all times. Also, should the building owner change service companies, up-to-date system programming data can be retrieved with proper authorization, from the panel by the new maintenance personnel in minutes.

Adding to the integrity of panel configuration is an advanced data transfer routine that does not compromise or interrupt normal system operation. This keeps the system fully functional during configuration data exchange – logging events and executing programming during the entire process.

EST4's high-performance Configuration Utility (CU) depicts the system in a graphical tree view, which matches the system's physical layout. This provides a familiar format in which to find programming for specific devices, and also does away with the need for look-up lists when, for example, devices need to be taken out of service because of site specific activities. The programming tool also features a context-sensitive Intellisense rule editor, which checks for syntax and semantic programming errors in real time.

The EST4 Configuration Utility (CU) also makes short work of configuration downloads to the control panel. It does this through a single firmware download for all modules, and a single database download for all node databases.

EST4's on-board USB ports also make it easy to connect with external devices. The USB ports do away with special cables and RS232-to-USB conversion dongles. It allows direct high-speed connection with laptops for the exchange of configuration data at transfer rates of up to 480 Mbps. Printers can be connected to panels or remote annunciators for on-site event and report printouts.

Audio

Nothing informs building occupants better than the spoken word, and EST4's highly intelligible voice audio ensures that those words are heard loud and clear. This high fidelity messaging, across EST4's impressive capacity of 100 channels, provides the flexibility that responders need to get messages out clearly and concisely.

EST4 live paging capabilities ensure that those messages reach the right people at the right time. In addition to standard paging functions (Page to Evacuation, Page to Alert, All Call, and All Call Minus), EST4 introduces Page to Other and Page to Emergency.

Page to Other is a quick way to reach people in stairwells and elevators, while Page to Emergency is for Mass Notification purposes. This added live paging capability allows responders to reach occupants based not only on their proximity to danger, but also based on their potential to move inadvertently towards specific danger points.

EST4 live paging also lets responders select individual paging groups as well as combinations of groups. This allows them to reach people in Alert and Evacuation zones simultaneously without having to page one group, and then page the other.

LIFE SAFETY & INCIDENT MANAGEMENT

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1018 Corporate Park Drive
Melrose, NC 27302
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APP: 03-123218 INC:

REVIEWED FOR

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DATE: 07/11/2024

AMADOR WHITTLE ARCHITECTS, INC.

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Ventura County Community College

PROJECT TITLE
MOORPARK COLLEGE ADMINISTRATION BUILDING RENOVATION

7075 CAMPUS ROAD
MOORPARK, CA 91320

CONSULTANT
LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3251 CORTE MALPASO, #511
CAMARILLO, CA 93012-8094
(805) 389-6520 FAX (805) 389-6519

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STAMPS/SEALS



12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:

EST4 EMERGENCY COMMUNICATIONS PLATFORM CUT SHEETS

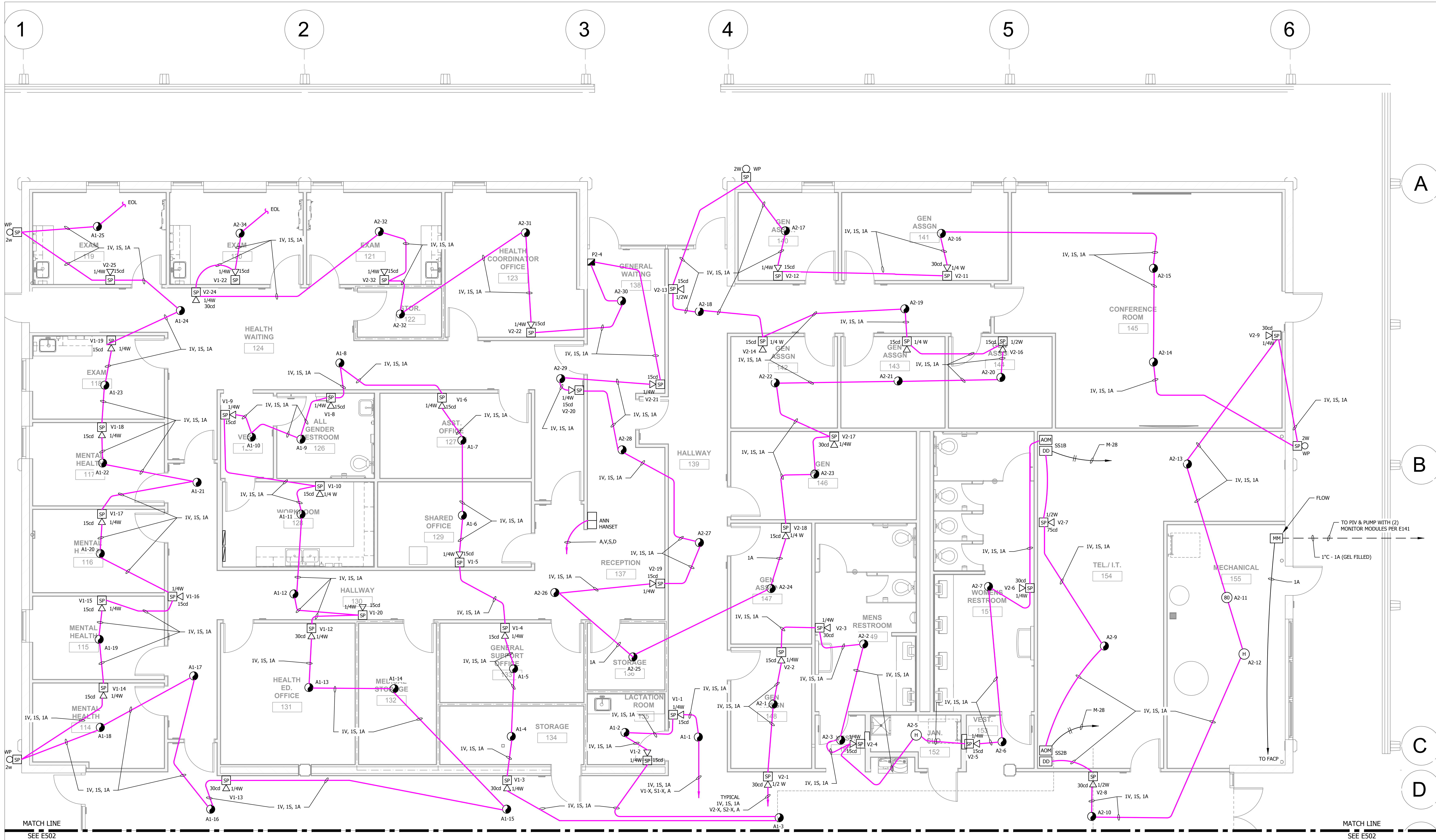
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DRAWN: LK/DS CHECKED:
SHEET NUMBER:
DATE: 12/08/23 SHEET: OF:

E502

DATE: 12/08/23 SHEET: OF:

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LALF 11-375

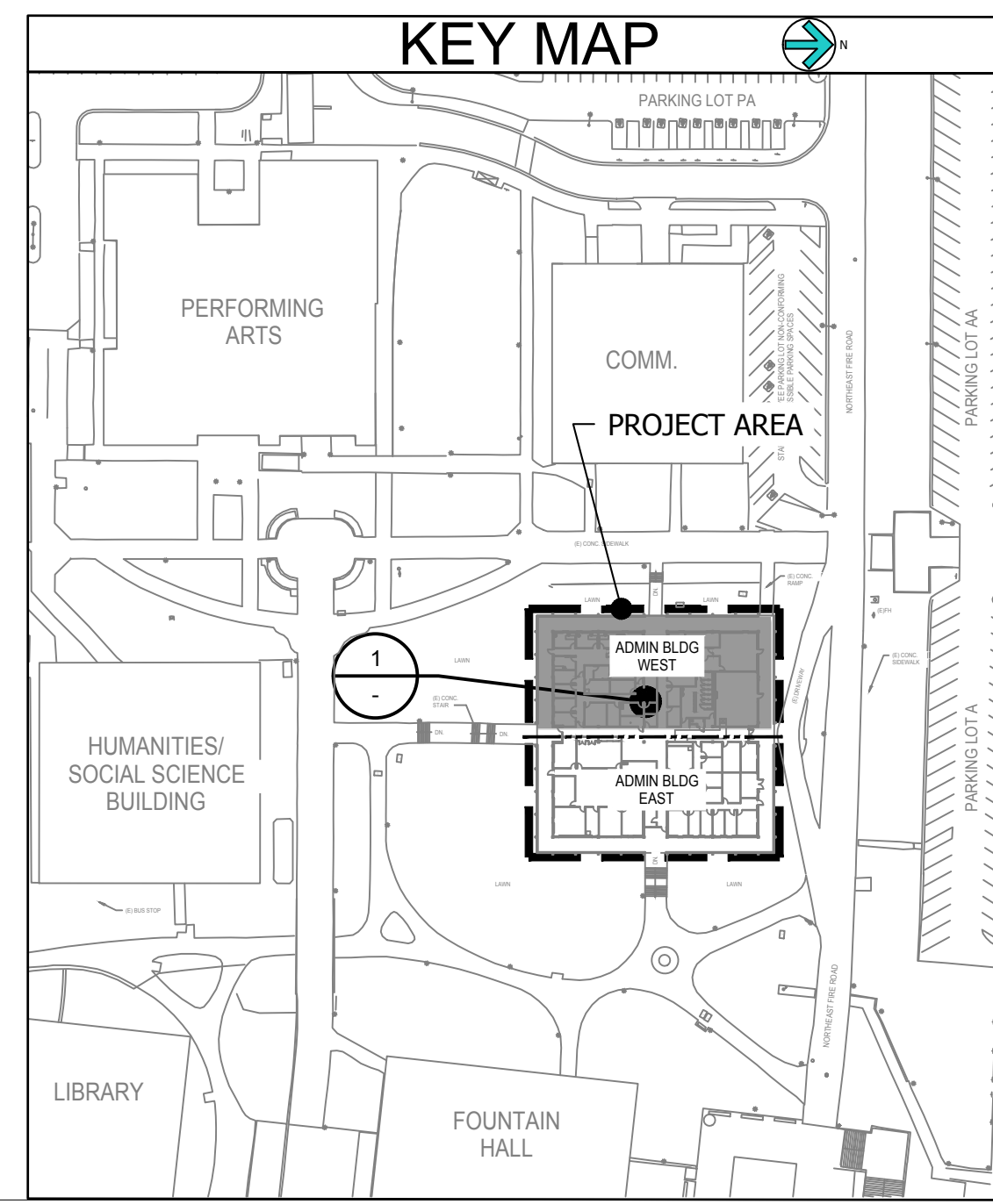
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DATE: 18 December 2023
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DRAWING FILENAME: 21-375E504
DRAFTER: CM01



SCALE: 1/4"=1'-0"
0 2 4 8

ADMINISTRATION BUILDING FIRE ALARM PLAN - WEST
SCALE: 1/4"=1'-0"

1
E504



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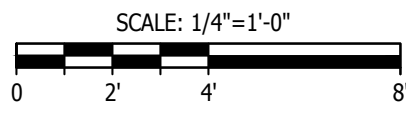
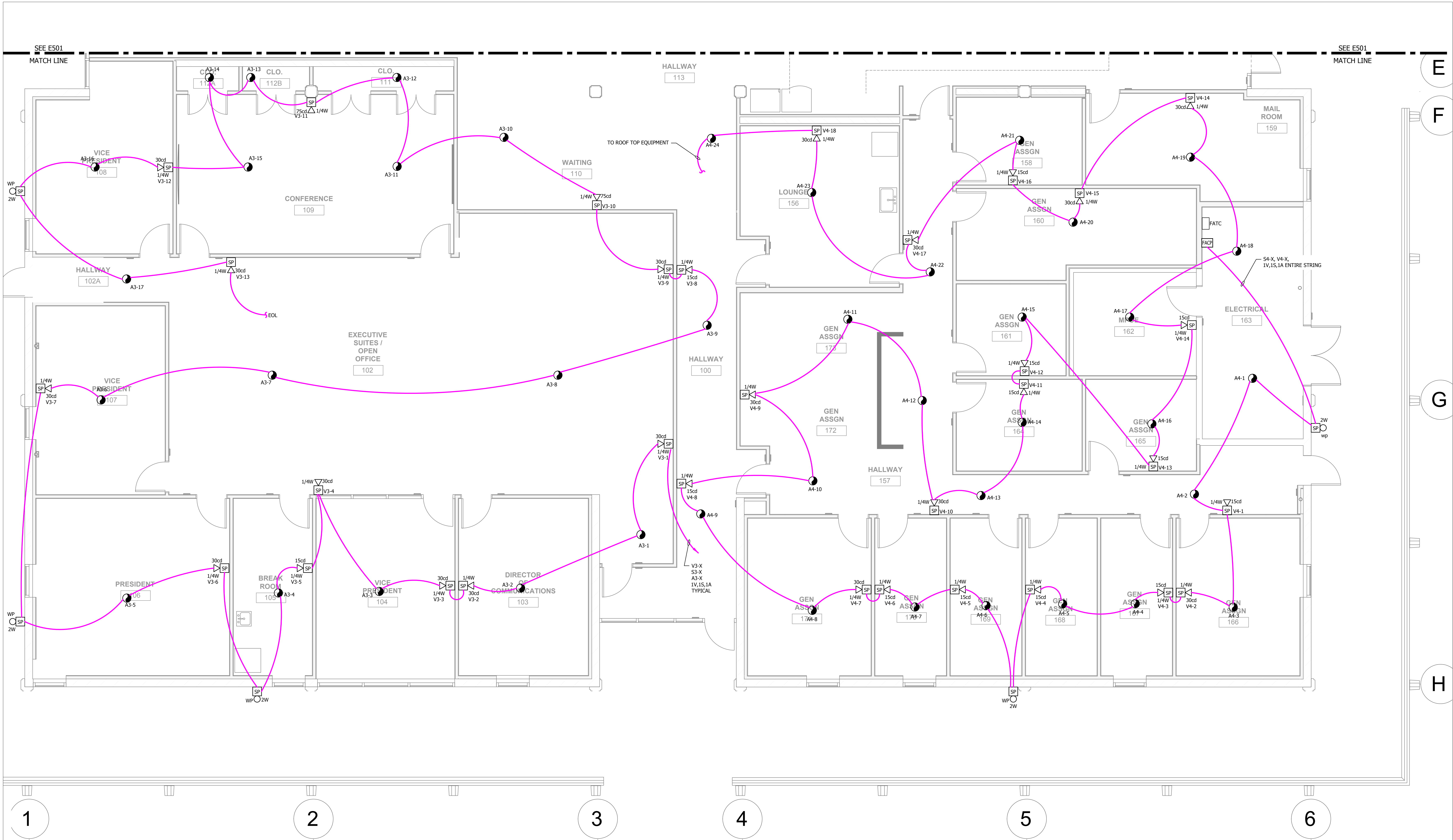
SHEET TITLE:
**ADMINISTRATION
BUILDING
FIRE ALARM
PLAN - WEST**

PROJECT NO.: 21-MPC-040 PROJECT ARCH:
DRAWN: LKDS CHECKED:
SHEET NUMBER:

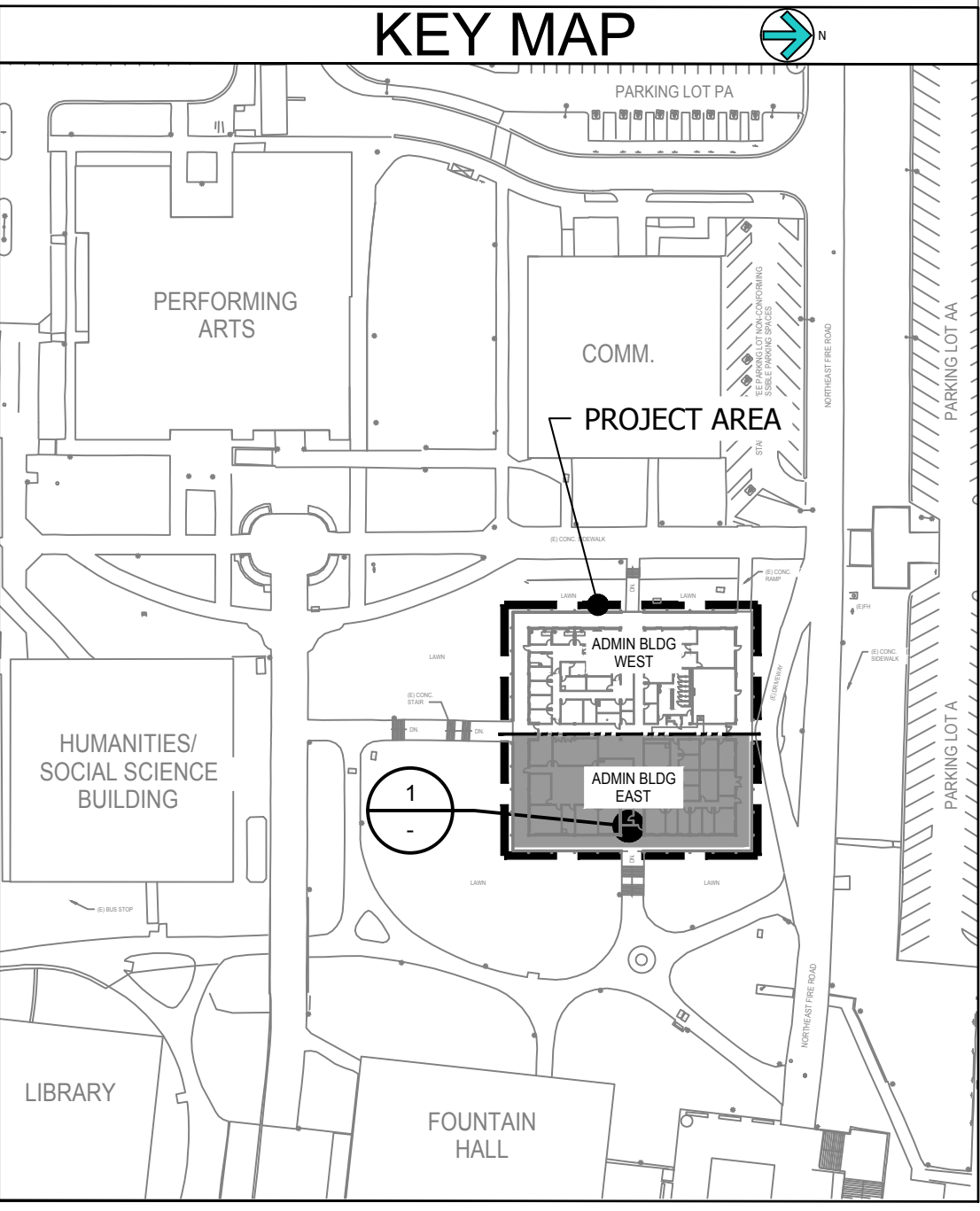
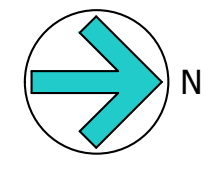
E504

DATE: 12/08/23 SHEET: OF
IF THIS SHEET IS NOT 36" X 48", IT IS NOT FULL SIZE. SCALE ACCORDINGLY
LALP-21-375

TIME: 8:34 am
DATE: 18 December 2023
PATHNAME: G:\21\375\EL\Sheets
DRAWING FILENAME: 21-375E505
DRAFTER: CM01



ADMINISTRATION BUILDING FIRE ALARM PLAN - EAST
SCALE: 1/4"=1'-0"



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SHEET TITLE:
**ADMINISTRATION
BUILDING
FIRE ALARM PLAN
- EAST**

PROJECT NO.: 21-MPC-040 PROJECT ARCH:
DRAWN: LK/DS CHECKED:
SHEET NUMBER:
E505

DATE: 12/08/23 SHEET: OF

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\\server\c001: Date: 04/14/2023
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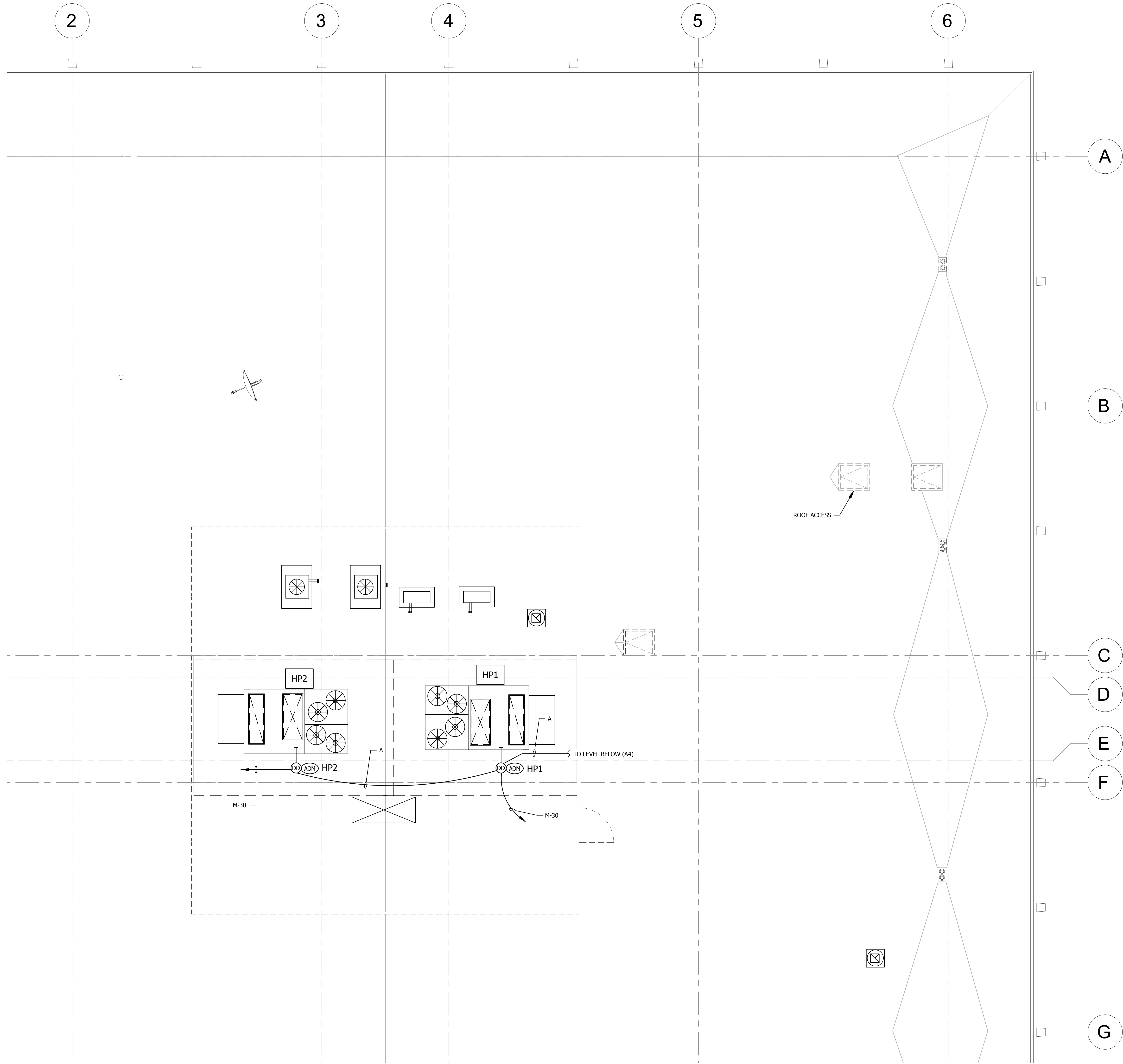
DATE: 18 December 2023

PATHNAME: G:\21\375\EL\Sheets

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DRAFTER: CM01

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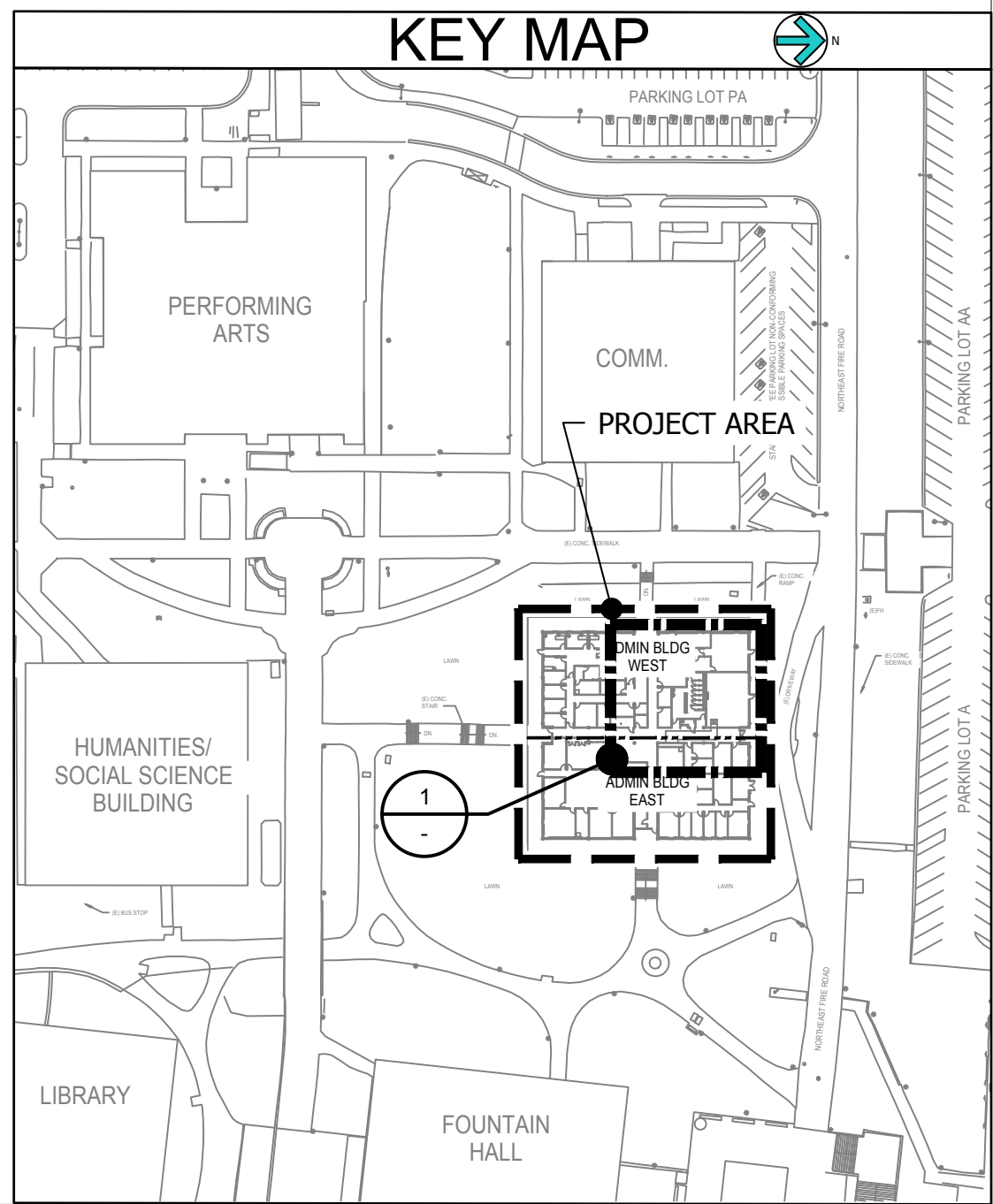


SCALE: 1/4"=1'-0"

FIRE ALARM PLAN ON ROOF

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

1



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SHEET TITLE:
**FIRE ALARM PLAN
ON ROOF**

PROJECT NO: 21-MPC-040 PROJECT ARCH:
DRAWN: LK/DJS CHECKED:
SHEET NUMBER:
E506
DATE: 12/08/23 SHEET: OF

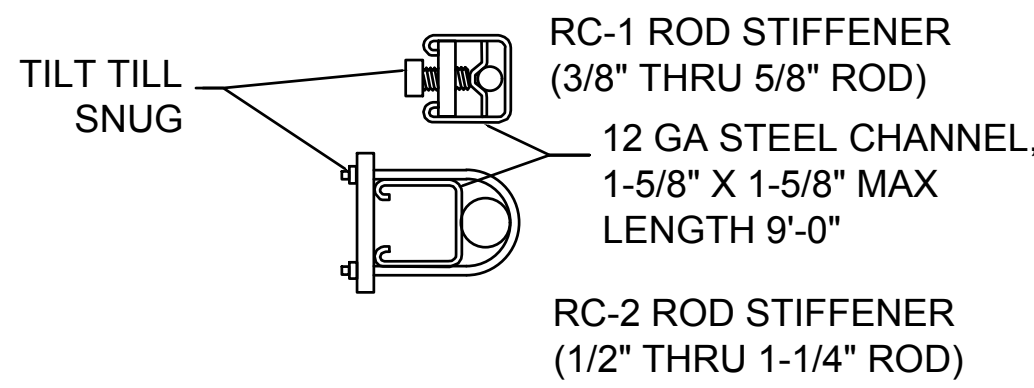
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LAL# 21-375



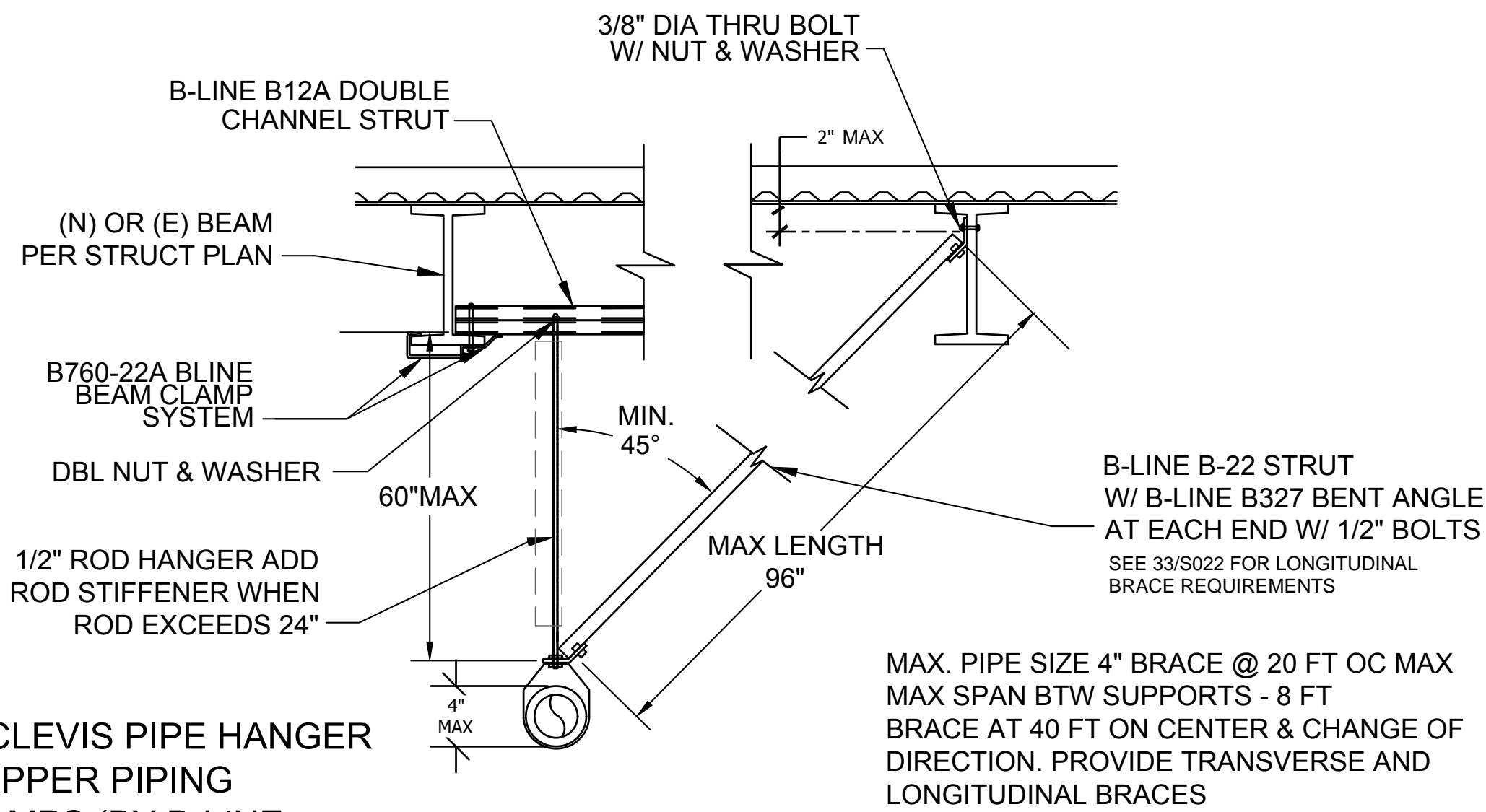
FIRE ALARM IS COMPLETE
BUILDING FULLY ADDRESSABLE

FOR MORE INFORMATION ON ROD STIFFENER
SEE STRUCTURAL PLANS SHEET 27/S022



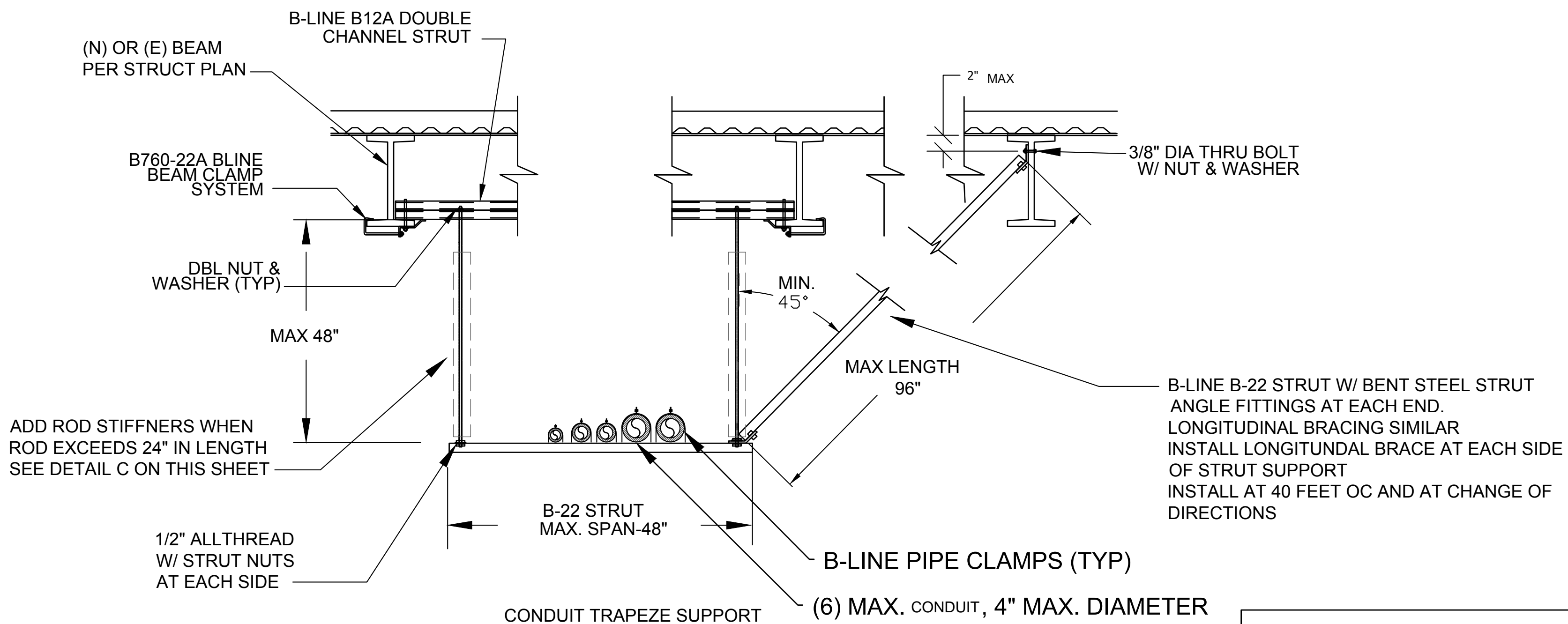
DETAIL C

FOR MORE INFORMATION ON STRUCTURAL SUPPORT
SEE STRUCTURAL PLANS SHEET 33/S022 AND 16/S021



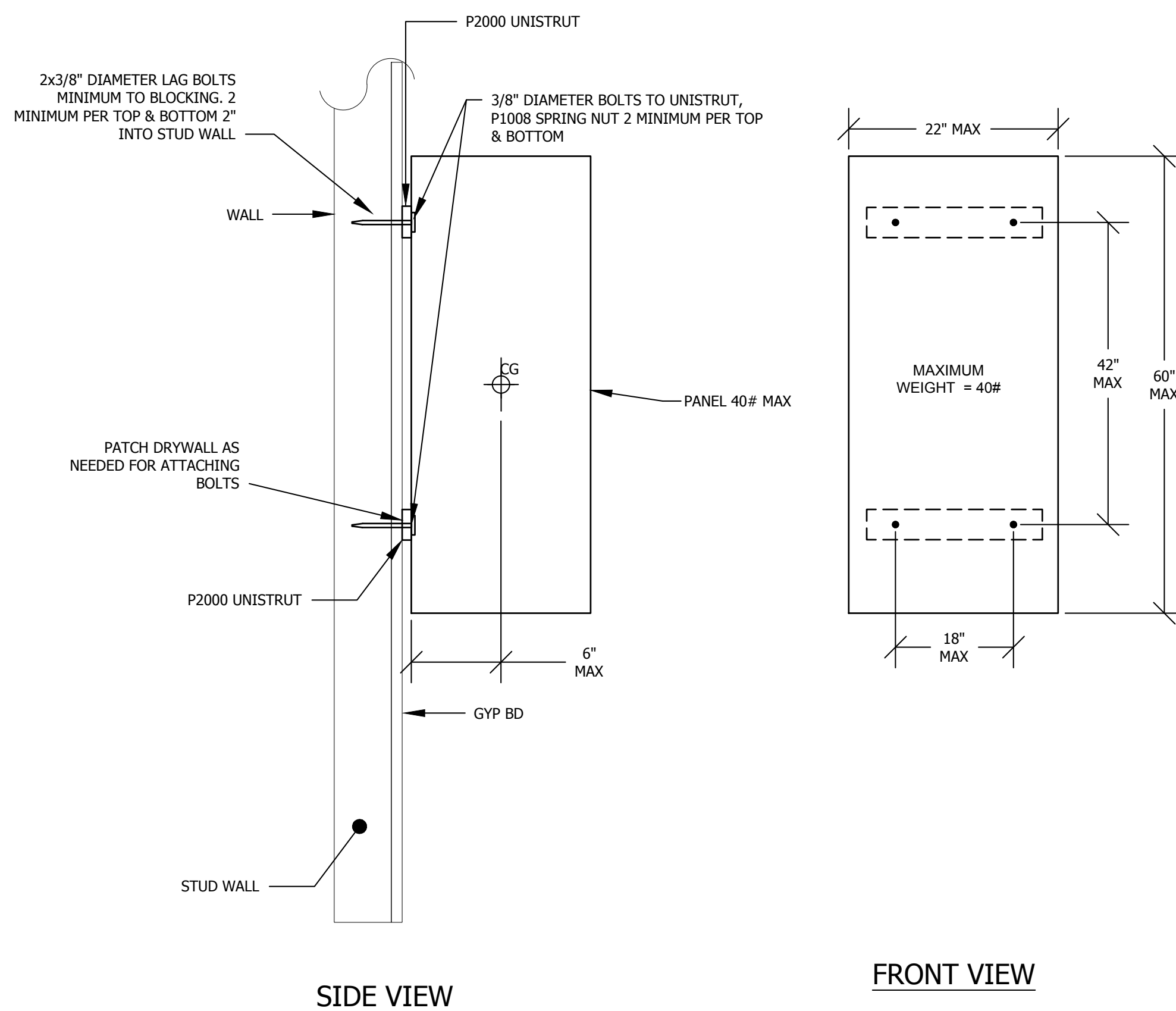
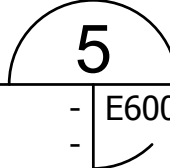
PROVIDE B-LINE B3170CT CLEVIS PIPE HANGER
B-LINE B3170CTC 1F AT COPPER PIPING
PROVIDE 2 PIECE PIPE CLAMPS (BY B-LINE,
UNISTRUT, OR EQUIV.) AT LONGITUDINAL BRACES

CONDUIT SUPPORT



TYPICAL CONDUIT SUPPORT DETAILS

SCALE: NONE



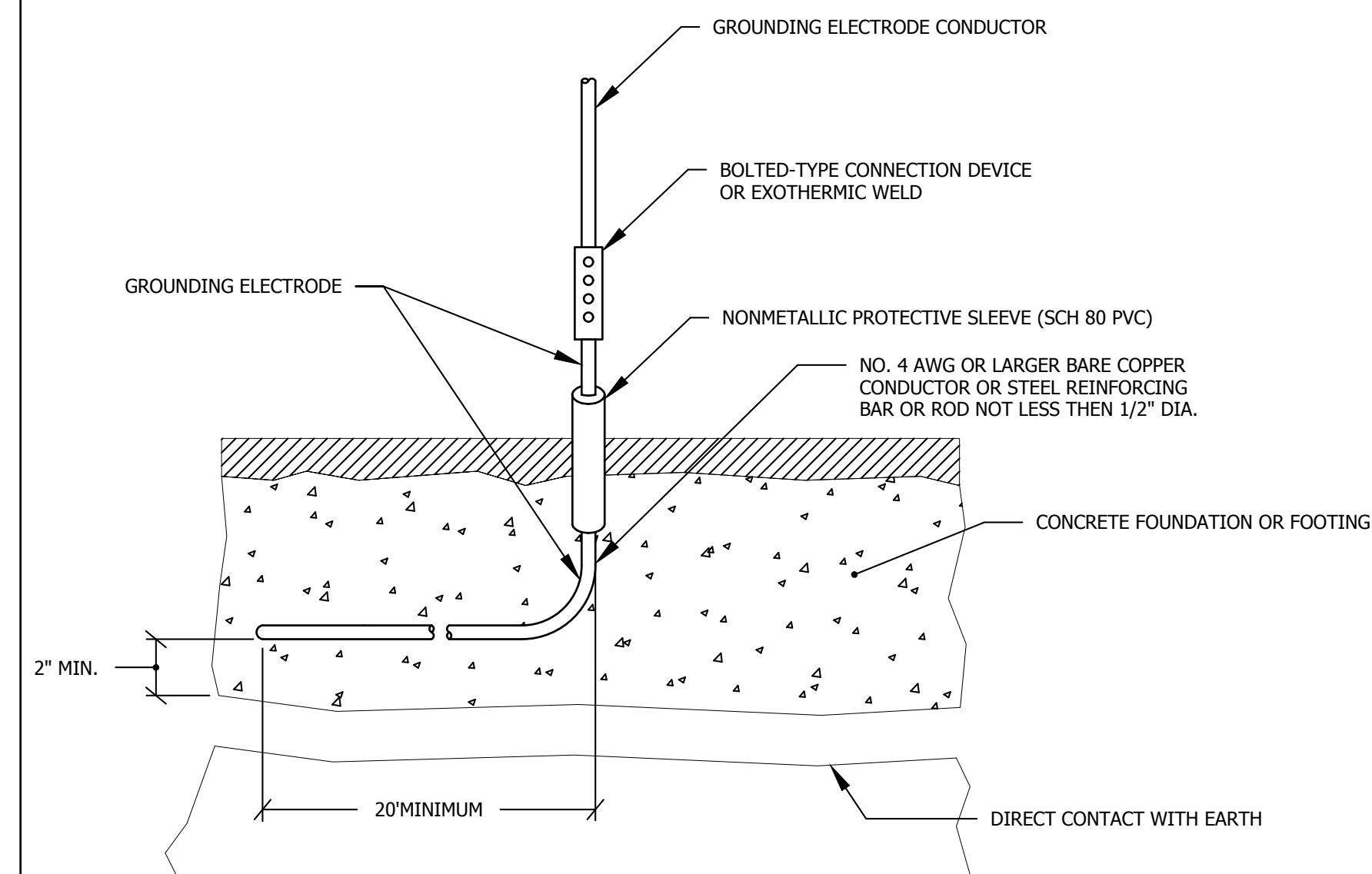
PANELBOARD, FIRE ALARM OR IDF PANEL
ANCHORAGE WOODEN WALL - SURFACE

SCALE: NONE



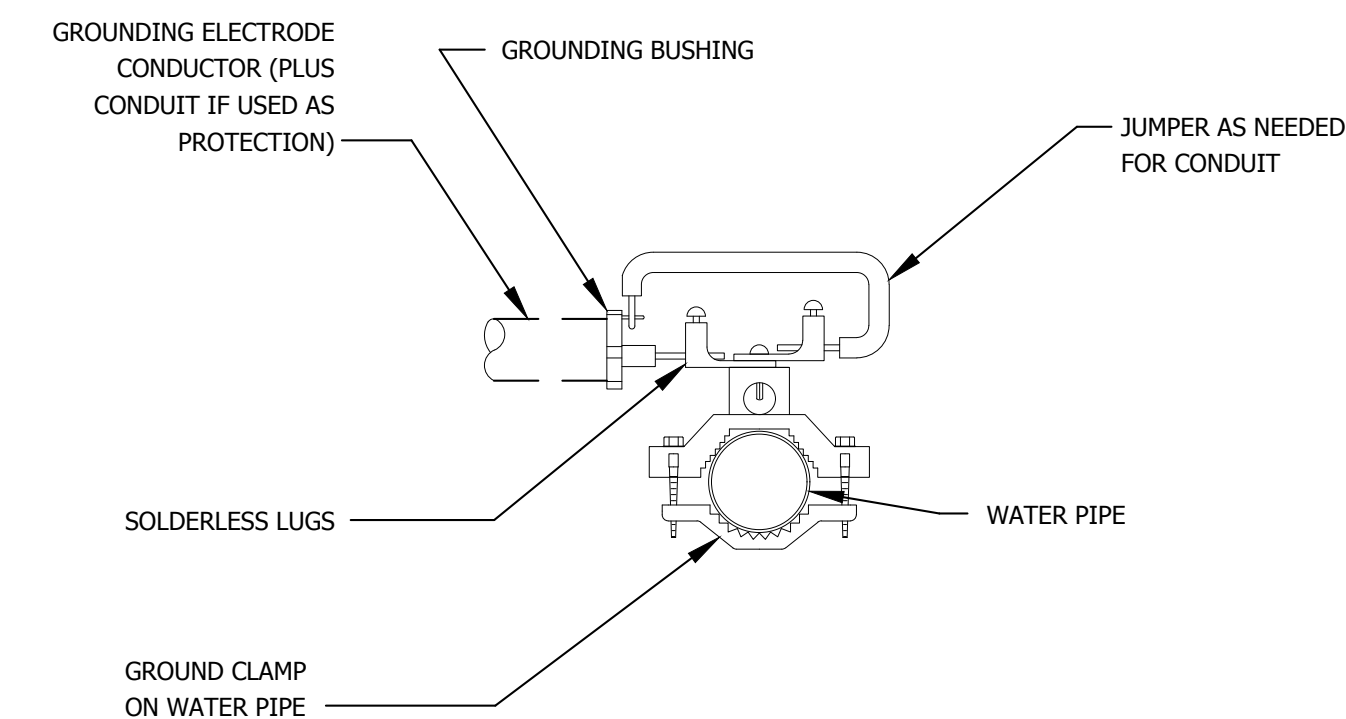
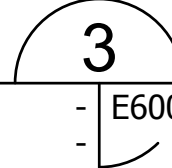
DETAIL NOTES:

1. CONCRETE-ENCASED ELECTRODE: AN ELECTRODE ENCASED BY AT LEAST 2 INCHES (50.8MM) OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20 FEET (6.1 M) OF ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2 INCH (12.7 MM) DIAMETER, OR CONSISTING OF AT LEAST 20 FEET (6.1 M) OF BARE COPPER CONDUCTOR NOT SMALLER THAN NO. 4, SEE PLANS FOR SIZE OF CONDUCTOR IF GREATER THEN #4.



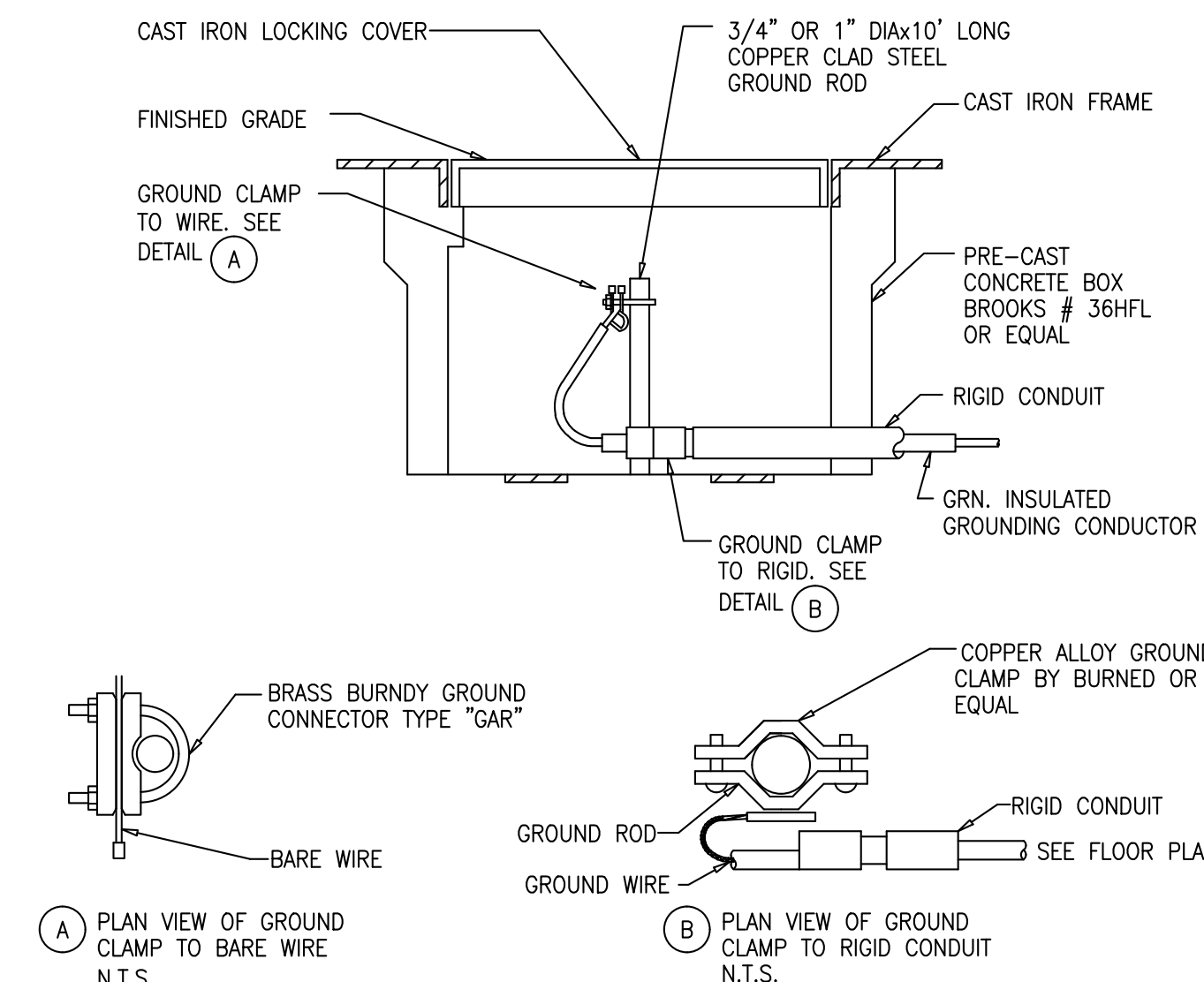
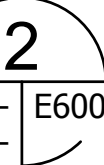
UFER GROUND DETAIL

SCALE: NONE



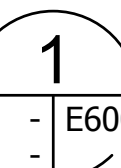
COLD WATER GROUND DETAIL

SCALE: NONE

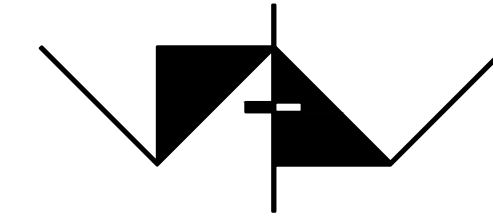
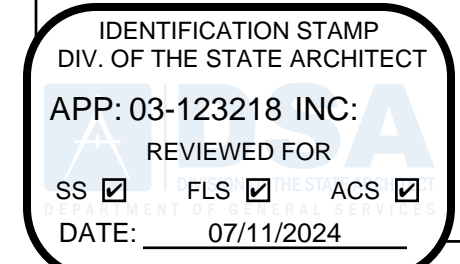


GROUND ROD AND PRE-CAST
CONCRETE BOX DETAIL

SCALE: NTS



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Ventura County Community College

PROJECT TITLE
**MOORPARK COLLEGE
ADMINISTRATION
BUILDING RENOVATION**

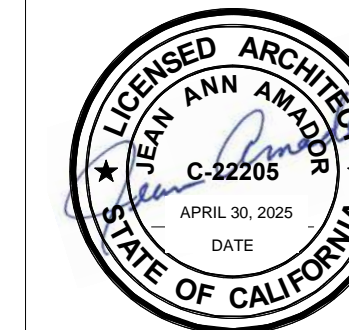
7075 CAMPUS ROAD
MOORPARK, CA 91320

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STAMPS/SEALS



12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:

**ELECTRICAL
DETAILS**

PROJECT NO: 21-MPC-040 PROJECT ARCH:
DRAWN: LK/DS CHECKED:

SHEET NUMBER:

E600

DATE: 12/08/23 SHEET: OF
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LALF 21-375

GENERAL NOTES

1. DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES:
- CALIFORNIA BUILDING CODE (CBC), 2022 EDITION
 - CALIFORNIA FIRE CODE (CFC), 2022 EDITION
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2022 EDITION
2. NO CHANGES TO THE "FP" SHEETS BY THE SPRINKLER SUBCONTRACTOR ARE ALLOWED EXCEPT FOR ADDING SHOP DRAWING INFORMATION. ALL REQUIRED REVISIONS TO THE "FP" SHEETS (OTHER THAN MINOR REVISIONS FOR THE PURPOSE OF COORDINATION) SHALL BE SUBMITTED IN WRITING AND SHALL BE APPROVED BY THE AHJ.
3. THE SPRINKLER SYSTEMS IN THIS BUILDING SHALL BE MONITORED BY A CENTRAL STATION SIGNALING SYSTEM FURNISHED AND INSTALLED BY THE ALARM CONTRACTOR. ALL TAMPER SWITCHES AND WATER FLOW INDICATORS SHALL BE INSTALLED BY THE SPRINKLER CONTRACTOR AND WIRED TO THE CENTRAL STATION SIGNALING SYSTEM BY THE ALARM CONTRACTOR.
4. THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, SEALING, PATCHING, AND PAINTING REQUIRED FOR INSTALLATION OF THE SPRINKLER SYSTEM. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED WITH AN APPROVED MATERIAL AS PRESCRIBED IN THE CALIFORNIA BUILDING CODE.
5. THE SPRINKLER SUBCONTRACTOR SHALL BE C-16 LICENSED BY THE STATE OF CALIFORNIA FOR DESIGN AND INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS.
6. SYSTEM DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13. MATERIALS TO BE UL LISTED OR FM APPROVED.
7. ALL NEW EXPOSED FIRE SYSTEM PIPING (ABOVE GROUND) 2½" TO 8" TO BE SCHEDULE 10 BLACK STEEL AND SCHEDULE 40 BLACK STEEL FOR 1" TO 2".
8. ALL PIPE LENGTHS SHOWN ARE CENTER TO CENTER DIMENSIONS.
9. HANGER LOCATION FOR ALL PIPING SHALL BE IN ACCORDANCE WITH NFPA 13, SECTIONS 9.2 THROUGH 9.2.6.2. SEE HANGER SCHEDULE AND/OR DETAILS FOR TYPES OF HANGERS USED. ALTERNATE UL AND FM HANGER METHODS ARE ACCEPTED AT NO ADDITIONAL COST TO THE OWNER.
10. PROVIDE RIGID COUPLINGS THROUGHOUT, EXCEPT FLEXIBLE COUPLINGS SHALL BE INSTALLED AS FOLLOWS:
- WITHIN 24 IN. OF THE TOP AND BOTTOM OF ALL RISERS;
 - ON BOTH SIDES OF CONCRETE OR MASONRY WALLS WITHIN 3 FT. OF THE WALL SURFACE;
 - WITHIN 24 IN. OF BUILDING EXPANSION JOINTS;
 - WITHIN 24 IN. OF THE TOP AND BOTTOM OF DROPS TO HOSE LINES, RACK SPRINKLERS, AND MEZZANINES, REGARDLESS OF PIPE SIZE;
 - WITHIN 24 IN. OF THE TOP OF DROPS EXCEEDING 15 FT. IN LENGTH TO PORTIONS OF SYSTEMS SUPPLYING MORE THAN ONE SPRINKLER, REGARDLESS OF PIPE SIZE;
 - ABOVE AND BELOW ANY INTERMEDIATE POINTS OF SUPPORT FOR A RISER OR OTHER VERTICAL PIPE.
12. ALL WELDING TO BE DONE BY CERTIFIED WELDERS.
13. JOINING OF LIGHTWALL PIPE AND FITTINGS SHALL BE DONE WITH GROOVED COUPLINGS. JOINING OF THREADABLE PIPE AS ALLOWED BY NFPA 13 SHALL BE DONE WITH THREADED CAST IRON OR DUCTILE IRON FITTINGS.
14. ALL INSPECTOR'S TEST CONNECTIONS AND LOW POINT DRAINS SHALL BE IN ACCORDANCE WITH NFPA 13 (UNLESS NOTED OTHERWISE) AND SHALL BE DISPLAYED ON SHOP DRAWINGS.
15. THE OVERHEAD PORTION OF THIS SYSTEM SHALL BE TESTED AT 200 PSI FOR 2 HOURS. THIS SYSTEM SHALL BE FLUSHED IN ACCORDANCE WITH NFPA 24 BEFORE CONNECTION WITH THE OVERHEAD SYSTEM AND BE TESTED AT 200 PSI FOR 2 HOURS.
16. SPRINKLERS IN T-BAR CEILING SHALL BE CONCEALED QUICK RESPONSE WITH WHITE CONCEALED ESCUTCHEONS AND SHALL BE PLACED IN QUARTER POINT OR CENTER OF 2x4 TILE.
17. THE SPRINKLER SUBCONTRACTOR IS TO COORDINATE AND ADJUST SPRINKLERS TO ELECTRICAL, MECHANICAL, STRUCTURE AND ALL OTHER TRADES AT NO ADDITIONAL COST. INSTALL OFFSETS AS REQUIRED FOR COORDINATION WITH OTHER TRADES.
18. OWNER SHALL BE PROVIDED WITH TEST CERTIFICATES, CARE & MAINTENANCE BOOK, AND A SPARE HEAD CABINET WITH SPRINKLERS AND A WRENCH IN ACCORDANCE WITH NFPA 13.
19. DELIVERY OF ALL MATERIALS AND EQUIPMENT TO THE JOB SITE SHALL BE SCHEDULED TO ASSURE COMPLIANCE WITH THE PREDETERMINED CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE AND HANDLING ALL MATERIALS AND EQUIPMENT ON THE JOB SITE, INCLUDING FURNISHING OF ANY STORAGE FACILITIES OR STRUCTURE REQUIRED.
20. SIGNAGE SHALL BE PROVIDED AS REQUIRED, INCLUDING "RISER ROOM IDENTIFICATION".
21. FLOW SWITCH SHALL BE CONNECTED TO A 10-INCH OUTSIDE ALARM BELL OR OTHER AUDIBLE ALARM DEVICE AT EACH RISER. APPROVED IDENTIFICATION SIGNS SHALL BE PROVIDED ON THE OUTSIDE ALARM BELL "SPRINKLER FIRE ALARM - WHEN ALARM SOUNDS CALL 911 / FIRE DEPARTMENT".
22. THE SPRINKLER SUBCONTRACTOR SHALL COMPLETE AND SIGN CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE ABOVEGROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL FORWARD TO AHJ FOR FILING IN PROJECT RECORDS.
23. REFERENCE THE CIVIL DRAWINGS FOR ADDITIONAL FIRELINE INFORMATION AND ACTUAL LENGTHS OF PIPE. THE LAYOUT SHOWN ON THE CIVIL DRAWINGS WILL SUPERCEDE WHAT IS SHOWN ON THE FIRE PROTECTION SITE PLAN.
24. REFER TO THE ARCHITECTURAL DRAWINGS FOR ACTUAL BUILDING DIMENSIONS AND DETAILS. DO NOT SCALE "FP" DRAWINGS FOR CONSTRUCTION PURPOSES.

FLOW TEST DATA
TEST PERFORMED ON WATER MAIN UNDER NORTHEAST FIRE RD.
MAIN SYSTEM TYPE: LOOPED
EFFECTIVE POINT: CONNECTION TO (E) 8" ACP WATER MAIN
STATIC PRESSURE: 80 PSI
RESIDUAL PRESSURE: 75 PSI
FLOW: 996 GPM
TEST PERFORMED BY VENTURA COUNTY WATER & SANITATION
DATE: 07/03/2023

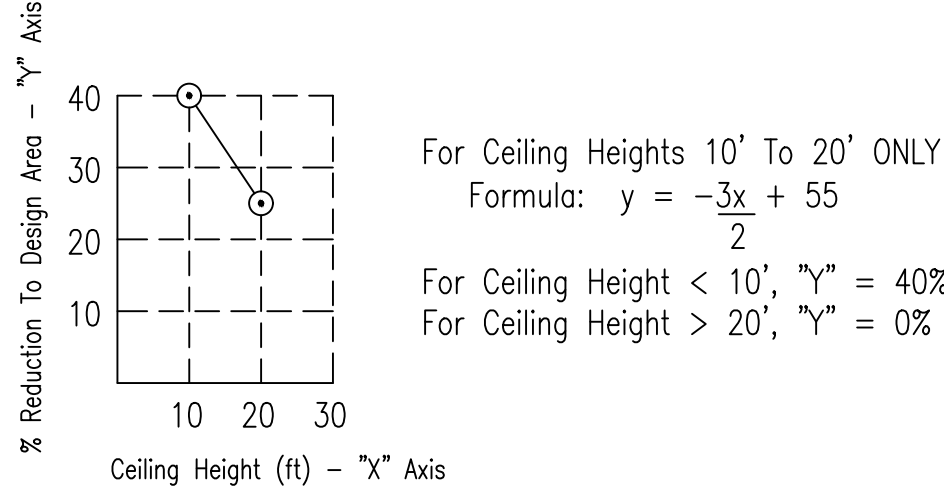
FLOW TEST DATA - REDUCED
FLOW TEST DATA TO BE REDUCED BY 10% FOR HYDRAULIC CALCULATIONS AS FOLLOWS:
STATIC PRESSURE: 72 PSI
RESIDUAL PRESSURE: 67.5 PSI
FLOW: 1,146 GPM

PROVISION FOR FLUSHING SYSTEMS

1. ALL SPRINKLER SYSTEMS SHALL BE ARRANGED FOR FLUSHING.
2. READILY REMOVABLE FITTINGS SHALL BE PROVIDED AT THE END OF ALL CROSS MAINS. ALL CROSS MAINS SHALL TERMINATE IN 1½ IN. (32 MM) OR LARGER PIPE.

SCOPE OF WORK

1. PROVIDE A WET PIPE AUTOMATIC SPRINKLER SYSTEM (OVERHEAD ONLY) IN ACCORDANCE WITH NFPA 13, 2022 EDITION.
2. ELECTRICAL/MECH. ROOM, STORAGE ROOM - ORDINARY HAZARD GROUP 1 WET PIPE SPRINKLER SYSTEM DESIGNED TO PROVIDE 0.15 GPM/FT² OVER THE MOST DEMANDING 1,500 FT² INCLUDING A HOSE DEMAND OF 250 GPM. MAXIMUM SPRINKLER SPACING SHALL BE 130 FT².
2. ALL OTHER AREAS - LIGHT HAZARD WET PIPE SPRINKLER SYSTEM DESIGNED TO PROVIDE 0.10 GPM/FT² OVER THE MOST DEMANDING 900 FT² INCLUDING A HOSE DEMAND OF 100 GPM. MAXIMUM SPRINKLER SPACING SHALL BE 225 FT².



AREA #1 CALCULATIONS TO REDUCE REMOTE AREA

Area #1 BASE Design = 0.10/1,500 Sq Ft + 100 GPM Hose
Ceiling Ht. above finished floor = 9'-0"
NFPA 13 Section 11.2.3.2.3.1 (Quick-Response Sprinkler Area Reduction)
Formula: $y = -\frac{3x}{2} + 55$
 $y = -\frac{3(10)}{2} + 55$
 $y = 40.0\%$ Area Reduction Allowed
1,500 Sq Ft x (1 - 0.40) = 900 Sq Ft
Area #1 FINAL Design = 0.10/900 Sq Ft + 100 GPM Hose

PROJECT DATA

PROJECT: MPC - ADMINISTRATION BLDG RENO

ADDRESS: 7075 CAMPUS ROAD
MOORPARK, CA 91320

OCCUPANCY GROUP: B (OFFICE AND HEALTH CLINIC)

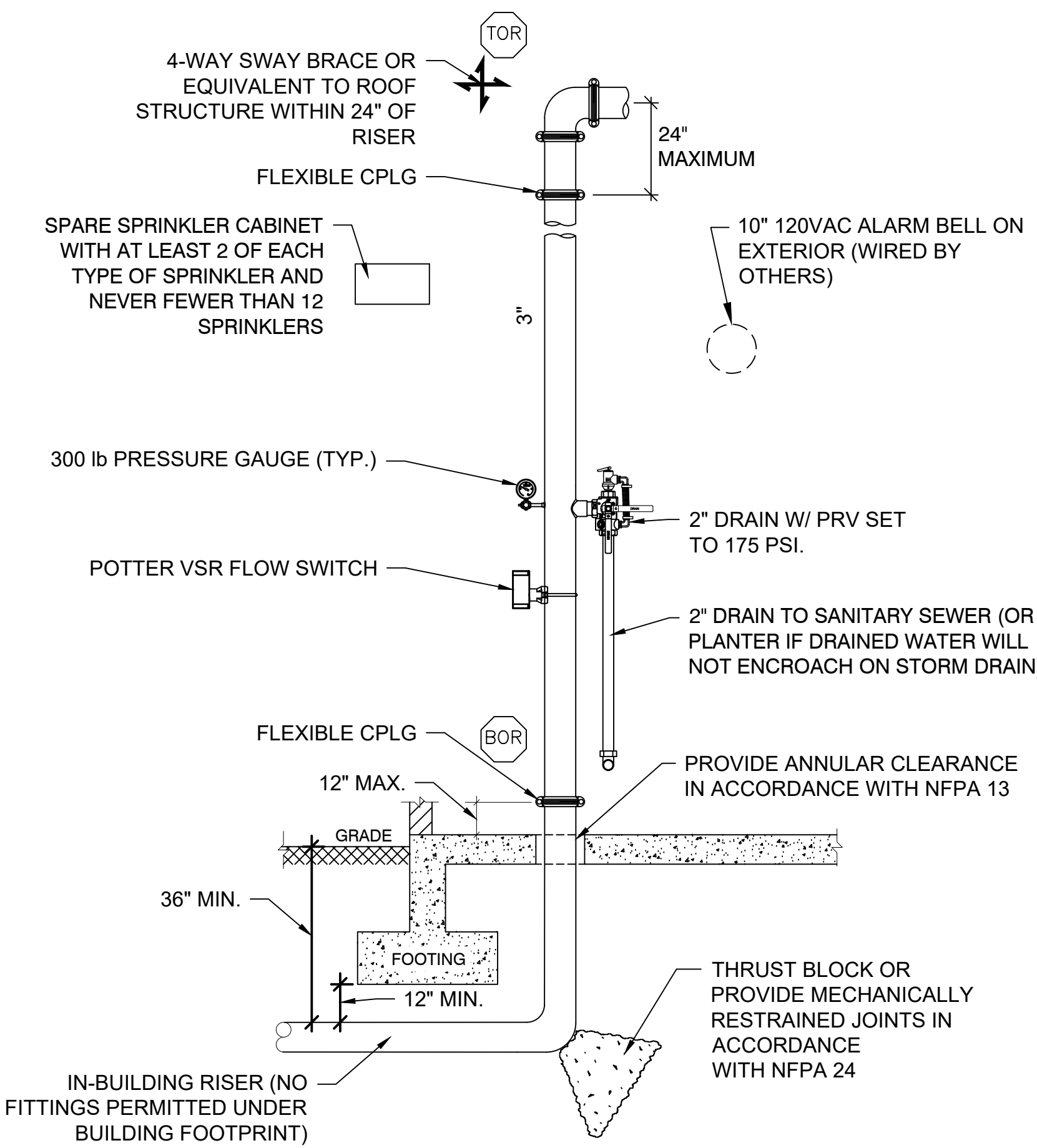
CONSTRUCTION: TYPE V-B, FULLY SPRINKLERED (S1)

BUILDING AREA: 16,943 SQ. FT. EXCLUDING ROOF OVERHANG
5,258 SQ. FT. ROOF OVERHANG
22,201 SQ. FT. TOTAL

STORIES: 1 STORY BUILDING

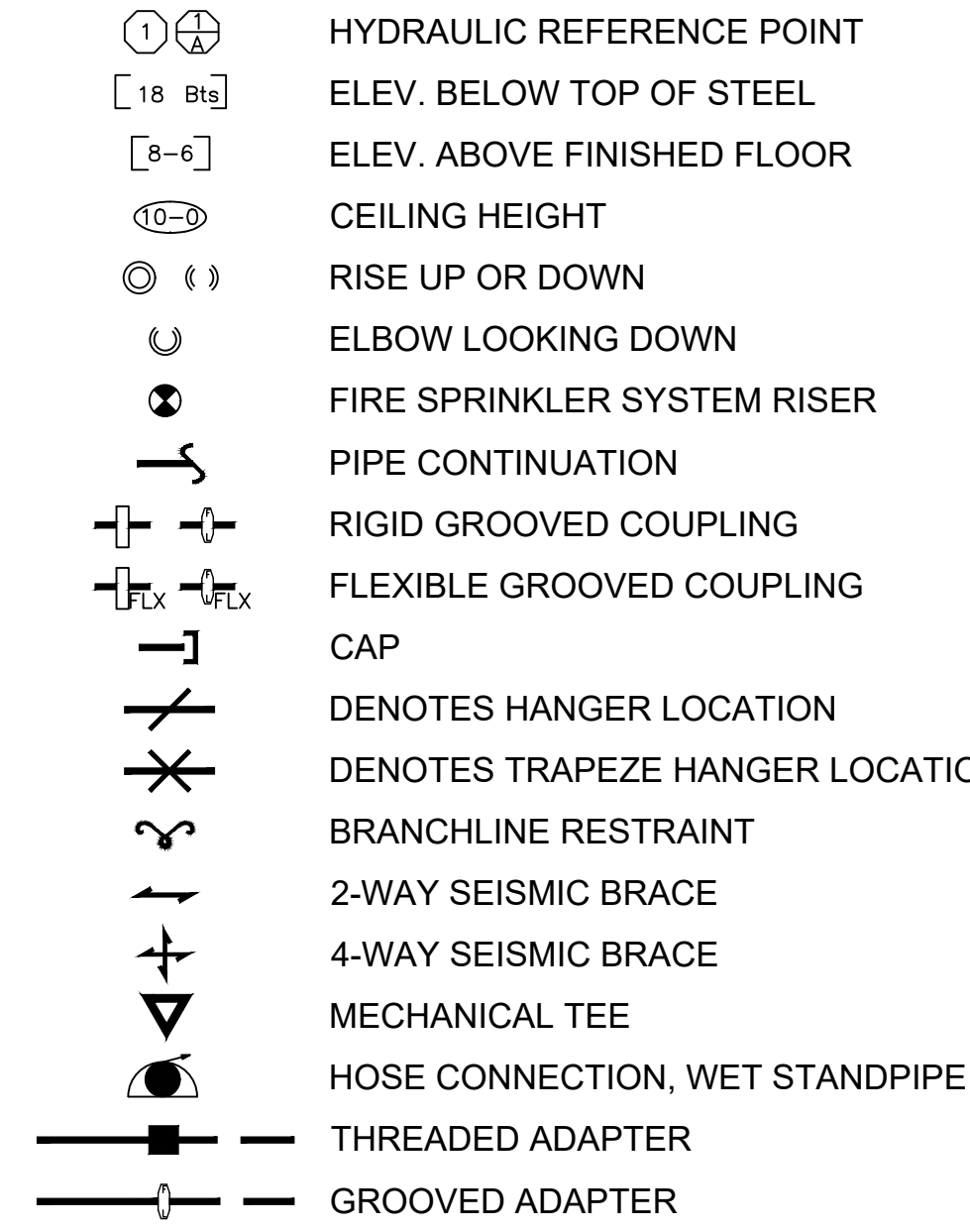
SPRINKLERS: FULLY SPRINKLERED

CP Value: 0.932

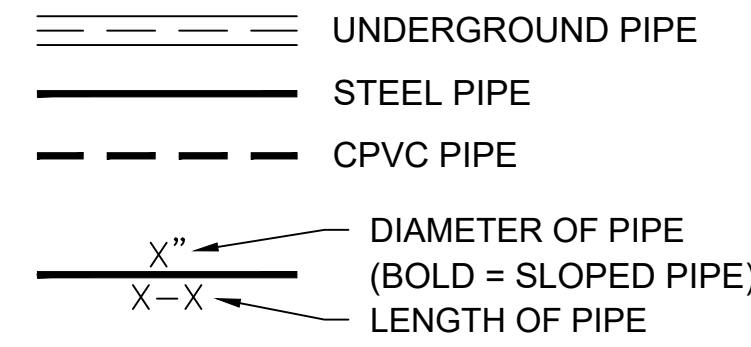


1 FIRE SYSTEM RISER DETAIL
NTS

SYMBOLS LEGEND

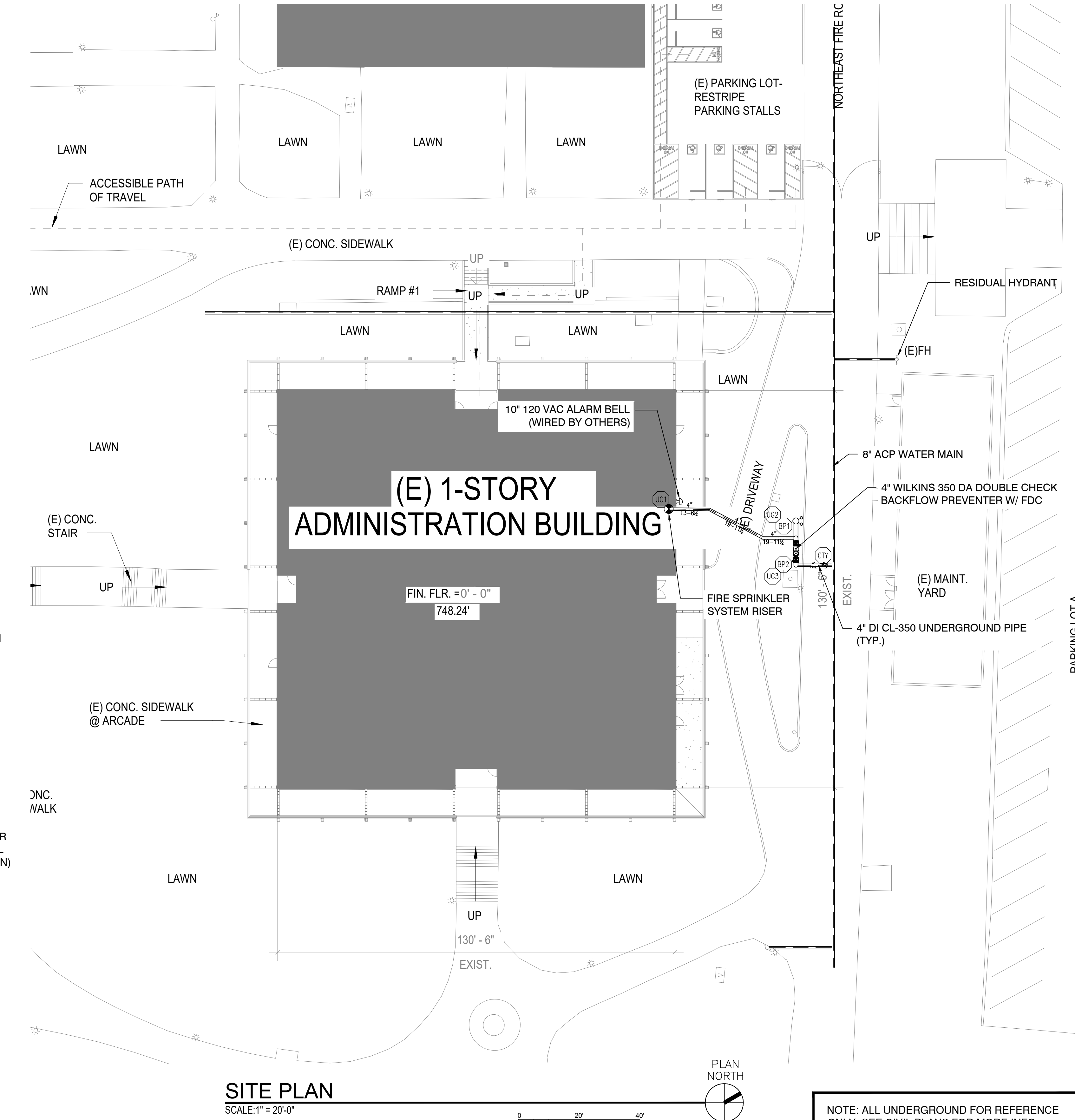


PIPING LEGEND



ABBREVIATION LEGEND

AFF	ABOVE FINISH FLOOR	IFW	INSIDE FACE OF WALL
AL VA	ALARM VALVE	ITV	INSPECTORS TEST VALVE
ASR	AUTOMATIC SPRINKLER RISER	KV	KEY VALVE
ATR	ALL THREAD ROD	LH	LIGHT HAZARD
BASR	BOTTOM AUTOMATIC SPRINKLER RISER	MIN.	MINIMUM
BB	BOTTOM OF BEAM	PE	PLAIN END
BD	BOTTOM OF DECK	PEN	PENDENT
BJ	BOTTOM OF JOIST	PCC	POINT OF CONNECTION
BFD	BACKFLOW DEVICE	PRV	PRESSURE RELIEF VALVE
BFV	BUTTERFLY VALVE	PVC	POLYVINYL CHLORIDE PIPE
BTS	BELOW TOP OF STEEL	OFW	OUTSIDE FACE OF WALL
CIP	CAST IRON PIPE	OH	OVERHEAD
CL	CENTERLINE	OH1	ORDINARY HAZARD GROUP 1
COJ	CUT ON JOB	OH2	ORDINARY HAZARD GROUP 2
CPLG	COUPLING	OS&Y	OUTSIDE SCREW & YOKE VALVE
CPVC	CHLORINATED POLYVINYL CHLORIDE PIPE	QR	QUICK RESPONSE
CTF	CUT TO FIT	RES	RESIDENTIAL
CV	CHECK VALVE	RPDA	REDUCED PRESSURE DETECTOR ASSEMBLY
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	RPZA	REDUCED PRESSURE ZONE ASSEMBLY
DOVA	DOUBLE CHECK VALVE ASSEMBLY	SBB	SIDE BEAM BRACKET
DIP	DUCTILE IRON PIPE	SCH	SCHEDULE
(E)	EXISTING	SLP	SLIP
(EX)	EXISTING	SS	STAINLESS STEEL
EH1	EXTRA HAZARD GROUP 1	SSP	STANDARD SPRAY PENDENT
EH2	EXTRA HAZARD GROUP 2	SSU	STANDARD SPRAY UPRIGHT
EO	EQUAL	STD	STANDARD
EOB	EARTHQUAKE BRACE	T	THREAD
ESC	ESCUTCHEON	TASR	TOP AUTOMATIC SPRINKLER RISER
EX	EXISTING	TBC	TOP BEAM CLAMP
FDC	FIRE DEPARTMENT CONNECTION	THD	THREADED
FLG	FLANGE	TS	TAMPER SWITCH
FS	FLOW SWITCH	TYP	TYPICAL
FW	FIRE WATER LINE	UG	UNDERGROUND
G	GROOVE	UP	UPRIGHT
GRC	GROOVED REDUCER COUPLING	VA	VALVE
GRV	GROOVE	VIF	VERIFY IN FIELD
GV	GATE VALVE	W/	WITH
HSW	HORIZONTAL SIDEWALL	W/O	WITHOUT



NOTE: ALL UNDERGROUND FOR REFERENCE ONLY. SEE CIVIL PLANS FOR MORE INFO.

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123218 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/11/2024

AMADOR WHITTLE
ARCHITECTS, INC.

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3536, (618) 674-0071

Ventura County Community College

PROJECT TITLE

ADMINISTRATION
BUILDING RENOVATION

7075 CAMPUS ROAD
MOORPARK, CA 91320

CONSULTANT



STAMPS/SEALS



SHEET TITLE:

SITE PLAN

PROJECT NO: 21-MPC-040 PROJECT ARCH: JS
DRAWN: BF CHECKED: JS

SHEET NUMBER

FP-1

DATE: 11/16/21 SHEET: OF

IF THIS SHEET IS NOT 30" X 42", IT IS NOT FULL SIZE. SCALE ACCORDINGLY



SUBJECT TITLE

75 CAMPUS ROAD
SUNNYVALE, CA 91320

SULTANT

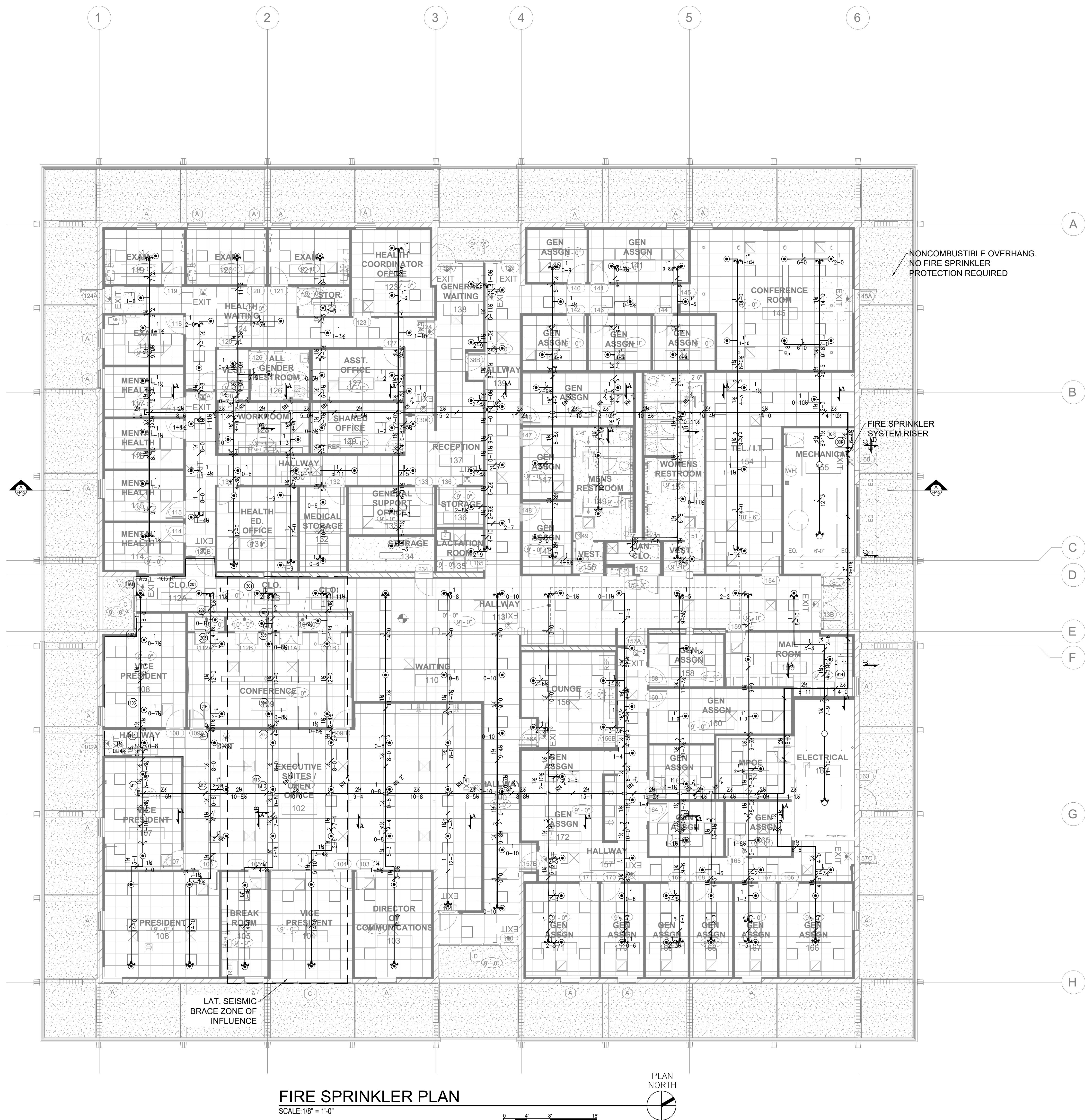


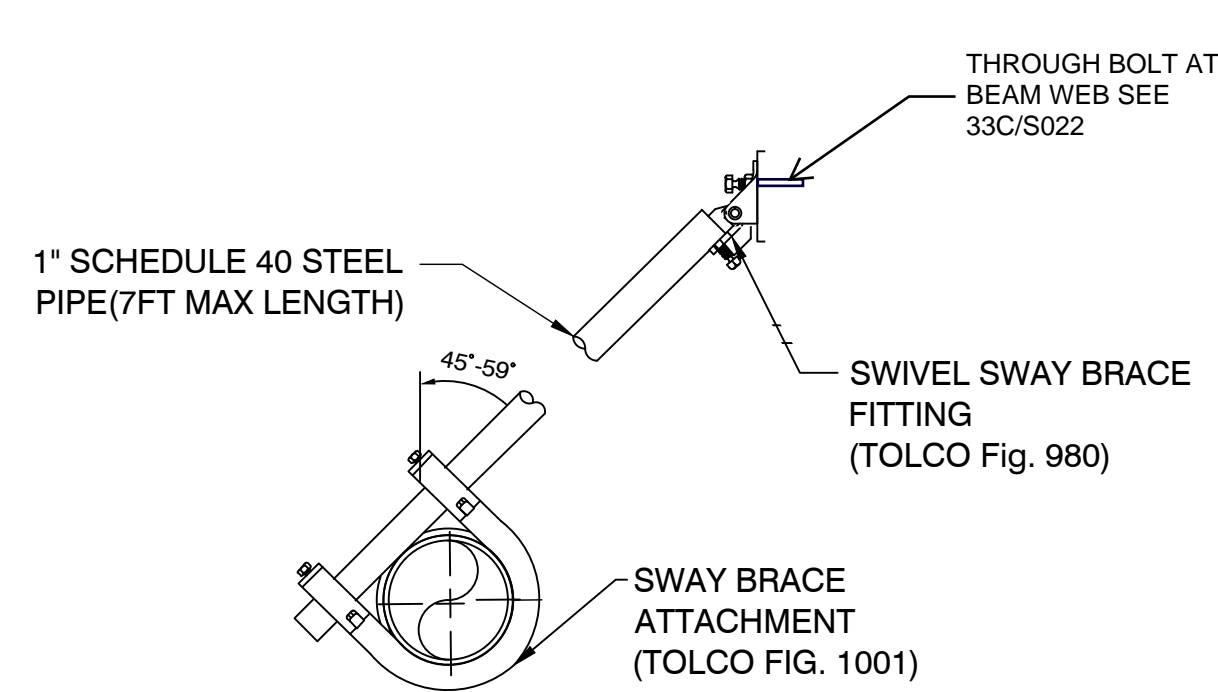
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N:	BF	CHECKED:

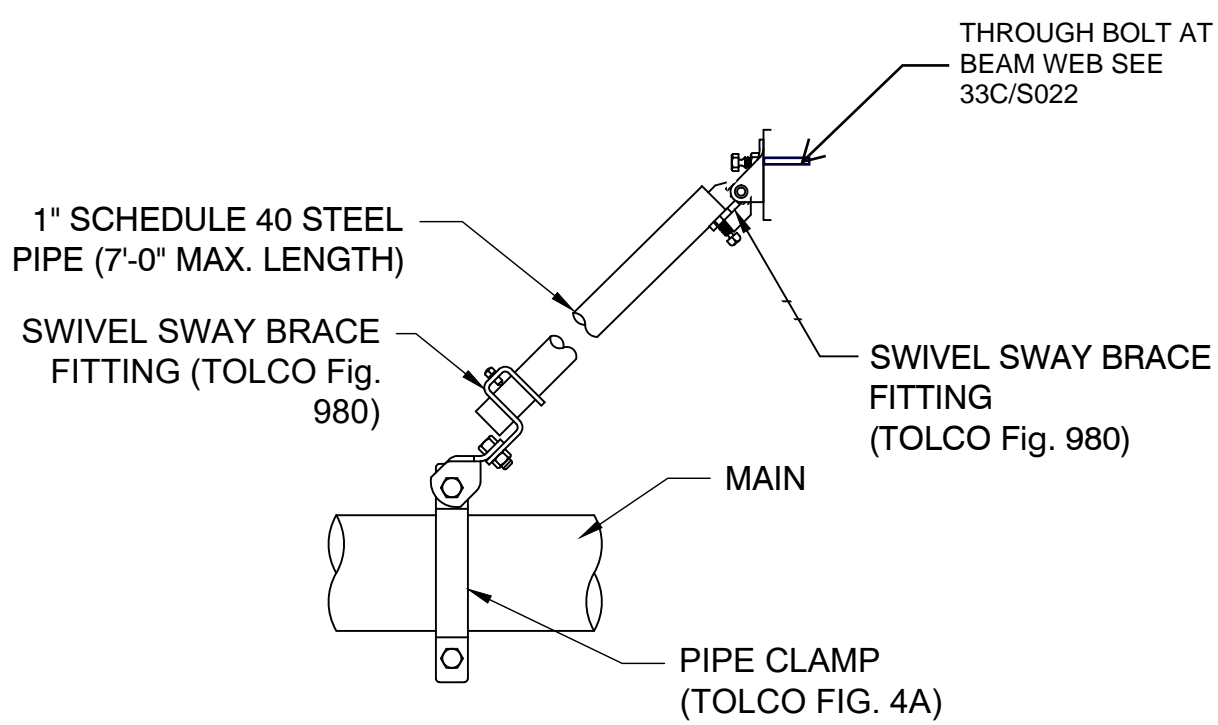
FP-2

11/16/21	SHEET:	OF
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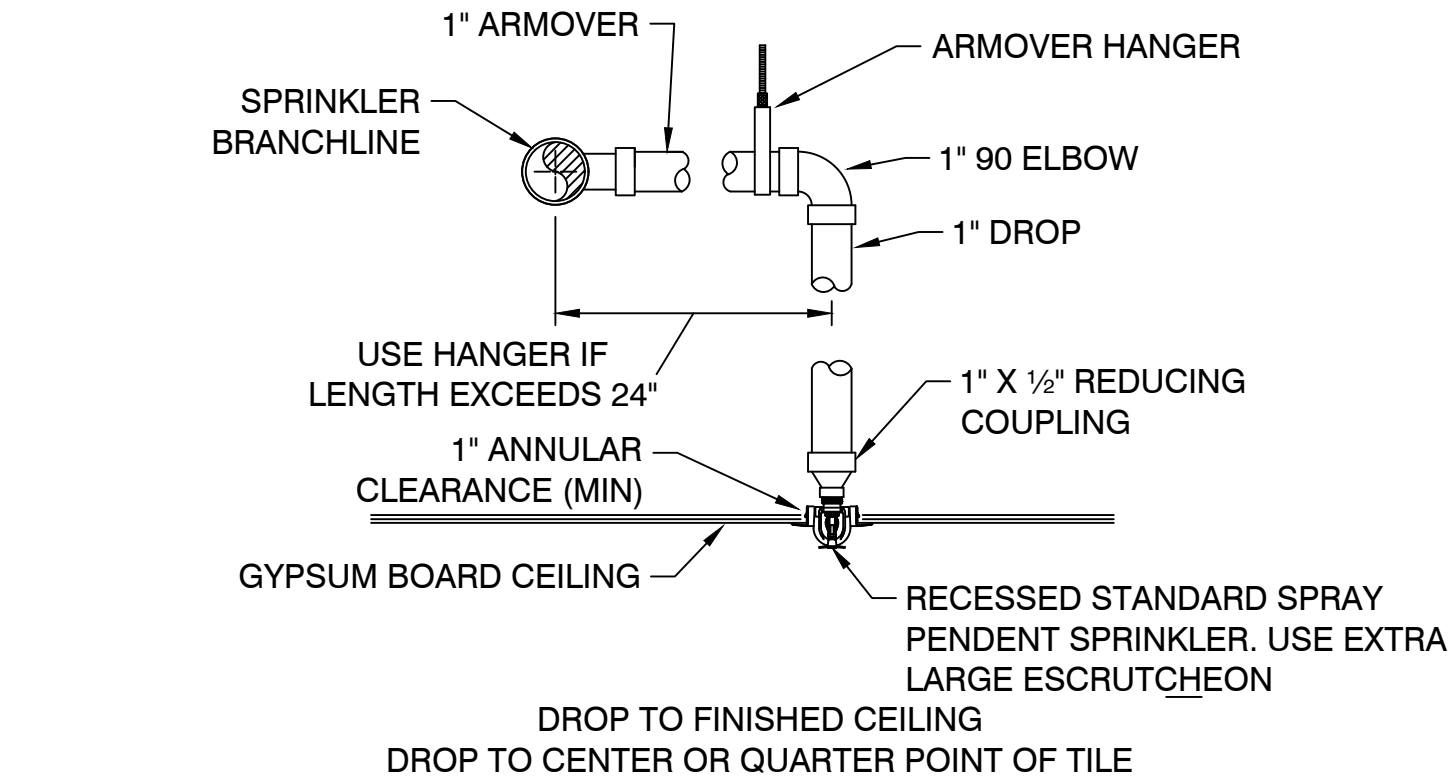




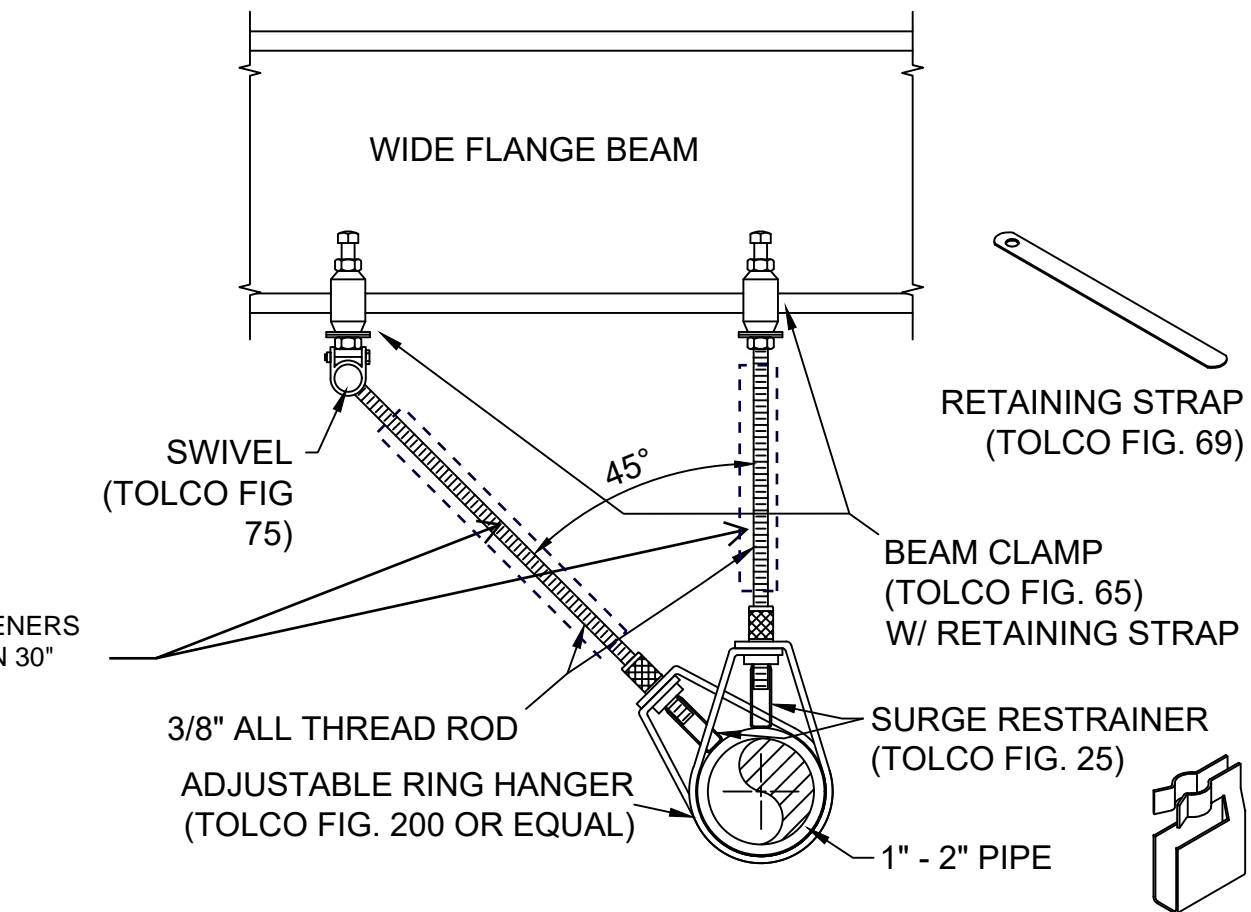
10 LATERAL SWAY-BRACE ASSEMBLY TO STEEL I-BEAM
NTS



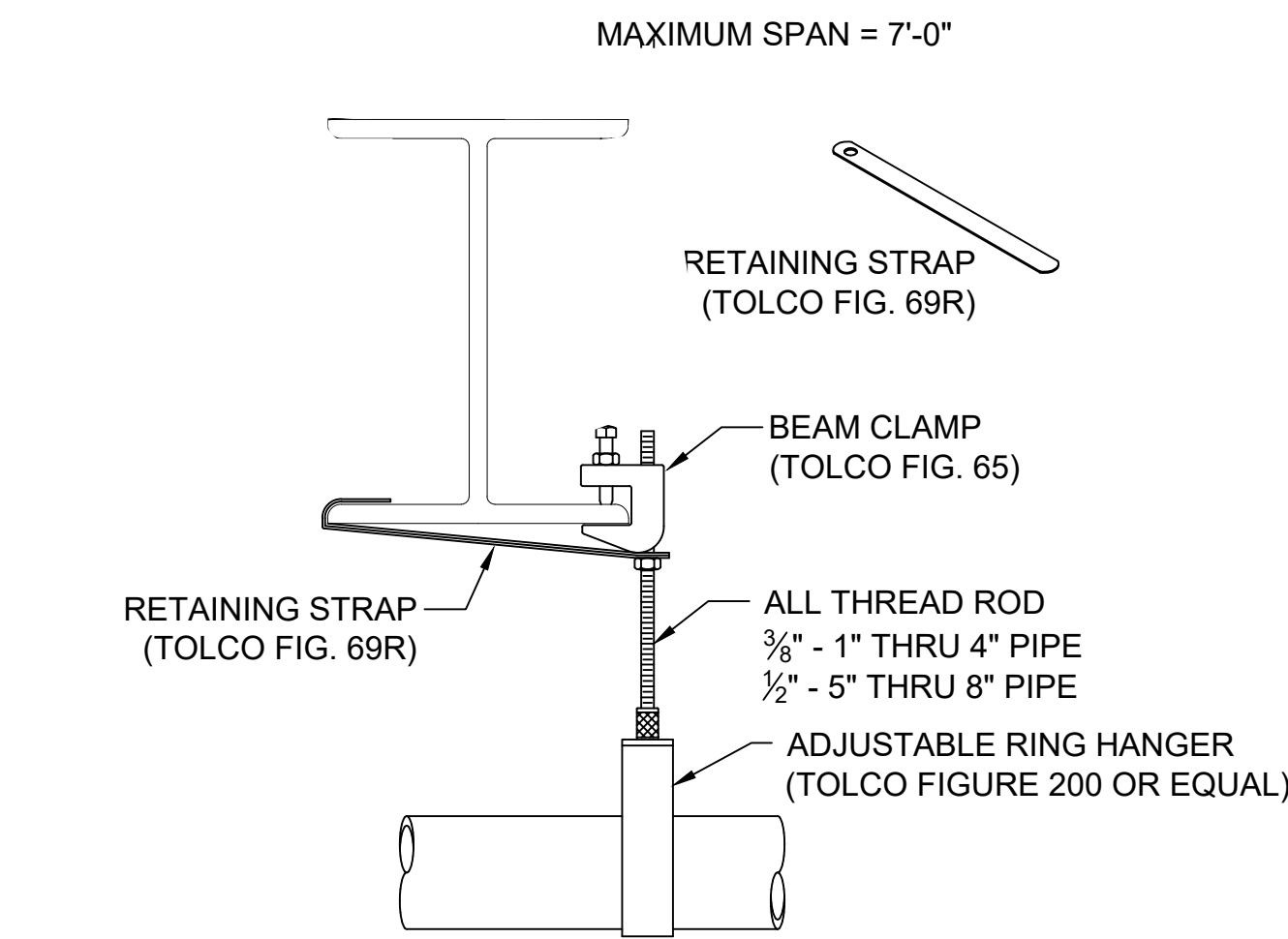
20 LONGITUDINAL SWAY-BRACE ASSEMBLY TO STEEL I-BEAM
NTS



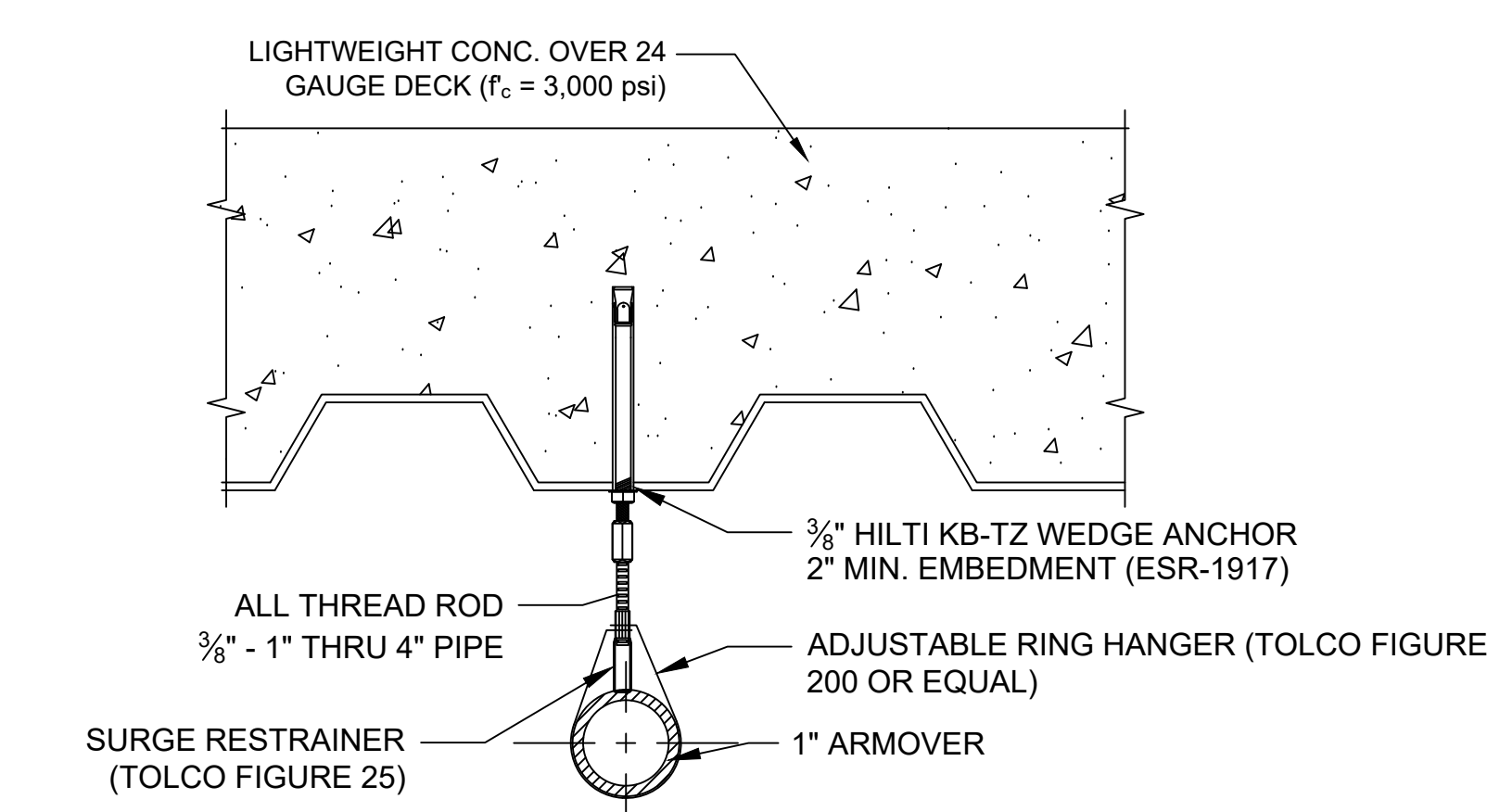
11 ARMOVER DETAIL
NTS



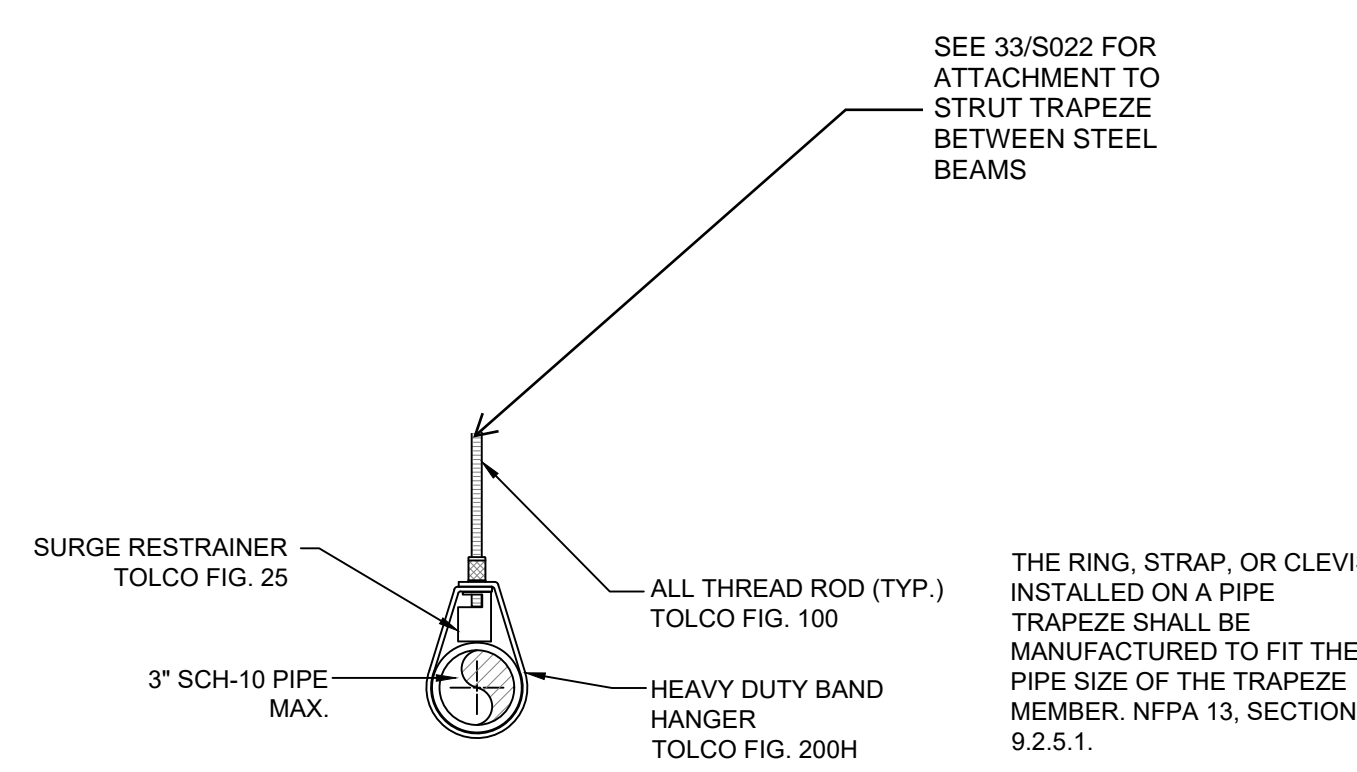
21 BRANCHLINE RESTRAINT TO STEEL I-BEAM
NTS



12 HANGER TO STEEL I-BEAM (#01)
NTS



22 HANGER TO CONCRETE OVER METAL DECK
NTS



13 TRAPEZE HANGER TO STEEL I-BEAM
NTS

MAXIMUM HANGER SPACING											
PIPE TYPE	NOMINAL PIPE SIZE (IN.)										
	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
STEEL PIPE EXCEPT THREADED LIGHTWALL	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0



**VENTURA COUNTY
FIRE DEPARTMENT**

Fire Prevention Bureau
165 Durley Avenue, Camarillo, CA 93010-8586
Office: (805) 389-9738 Fax: (805) 388-4356

FIRE PREVENTION FORM 625 FIRE-FLOW VERIFICATION

SECTION I - PROJECT INFORMATION (To Be Completed by Applicant)

Project Name: Moorpark College - Administration Building APN: 500-0-281-495
Project Address: 7075 Campus Road City: Moorpark

SECTION II - INFORMATION ON FIRE-FLOW AVAILABILITY (To Be Completed by Water Purveyor)

System Information:

Water Purveyor: Ventura County Waterworks District No. 1
Size & Location of Main: 8" North of parcel Distance to Parcel: 45 feet
Size of Reservoir Serving Test Hydrants: College Reservoirs 1 and 2 (2.5 MG)

Hydrant Information:

Location of Residual Hydrant: N. of Admin Bldg (H554) Distance to Parcel: 90 feet
Location of Flow Hydrant: N. of Comms&Media Art Bldg(H1814) Distance to Parcel: 320 feet
Type: Wet Size: 6" # of Outlets: 1 4" 1 2 1/2
* Distance to parcel shall be measured along the vehicular access

Test Result Information:

Method Used to Obtain Results: Hydraulic Model ☐ Flow Test ☒
Date of Test: 6/28/23 Time of Test: 2:40 ☐ AM ☒ PM
Static PSI: 80 Residual PSI: 75 Orifice: 2.5 Pitot: 40
Observed GPM: 996 Calculated GPM @ 20 psi: 3811 Capacity Duration: 2 hrs

I have witnessed and/or reviewed this water flow information and by personal knowledge and/or on-site observation certify that the above information is correct.

Name: Amy Bandagski Date: 07/03/2023
Signature: _____ Title: Engineering Tech. IV Company: VCWWD#1
Phone: (805) 378-3023

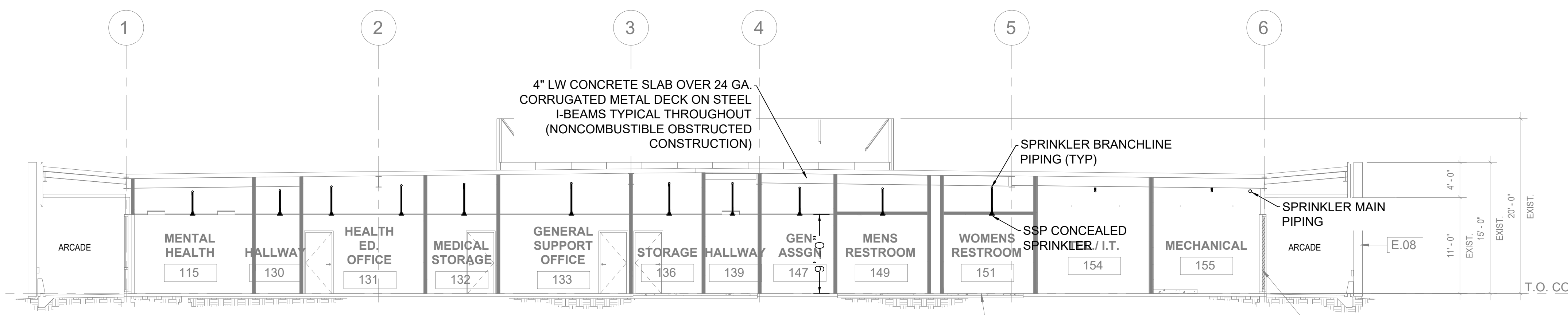
☐ Private on-site water system proposed. Separate plan submittal required.
☐ Water purveyor approves use of private water system. (Purveyor signature required above).

Fire District Record Number: _____

January 1, 2023

Fire-flow Verification

625-1



A BUILDING SECTION 'A'
FP-3 SCALE: 1/8" = 1'-0"

TOLBrace™ Seismic Bracing Calculations V8.8.136

Contractor: Schram Fire Protection Engir
Address: 6123 Inez St, Suite #5
Ventura, CA 93003
Phone: (805) 650-2511
License: _____
Job # 1VTA21110 Calculations based on 2016 NFPA Pamphlet #13

Project Address: MPC ADMIN FP
Address: 7075 CAMPUS ROAD
MOORPARK, CA 91320
Job # 1VTA21110 Calculations based on 2016 NFPA Pamphlet #13

Brace Information

Maximum Brace Length: 7' 0" (2.134 m)
Diameter of Brace: 1"
Type of Brace: Sch.40
Angle of Brace: 45° Min.
Least Rad. of Gyration: 0.42" (11 mm)
L/R Value: 200
Max Horizontal Load: 1310 lbs (594 kg)

Fastener Information

Orientation to Connecting Surface: NFPA Type B
Fastener Type: Fig.828 Across 3/8" Thick Flange
Diameter: N/A
Length: N/A
Maximum Load: 2344 lbs (1063 kg)
Prying Factor: N/A

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 1001 Clamp	2000 lbs (907 kg)	2074 lbs (941 kg)
Fig.980 - 5/8" Universal Swivel	2100 lbs (953 kg)	2178 lbs (988 kg)
Fig.828 Across 3/8" Thick Flar	1598 lbs (725 kg)	1657 lbs (751 kg)

*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Seismic Brace Assembly Detail

SEE DETAIL 10 ON THIS SHEET

Brace Identification on Plans Lat.A
Brace Type Lateral [X] Longitudinal [] 4-Way []

Sprinkler System Load Calculation (Fpw = CpWp)
Cp = 0.932

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
2.5" (65 mm)	Sch. 10	20 ft (6.1 m)	20 ft (6.1 m)	5.89 lb/ft (8.77 kg/m)	118 lbs (54 kg)
2" (50 mm)	Sch. 40	1 ft (0.3 m)	1 ft (0.3 m)	5.13 lb/ft (7.63 kg/m)	5 lbs (2 kg)
1.5" (40 mm)	Sch. 40	29 ft (8.8 m)	29 ft (8.8 m)	3.61 lb/ft (5.37 kg/m)	105 lbs (48 kg)
1.25" (32 mm)	Sch. 40	53 ft (16.2 m)	53 ft (16.2 m)	2.93 lb/ft (4.36 kg/m)	155 lbs (70 kg)
1" (25 mm)	Sch. 40	49 ft (14.9 m)	49 ft (14.9 m)	2.05 lb/ft (3.05 kg/m)	100 lbs (45 kg)

Subtotal Weight: 483 lbs (219 kg)
Wp (incl. 15%) 553 lbs (252 kg)
Total (Fpw) 518 lbs (234 kg)
Main Size 2.5" Type/Sch. Sch. 10 Spacing (ft) 20 Maximum Fpw per 9.3.5.5.2 (if applicable) 641 lb (290 kg)
(TOLBrace™ Version 8) Use of TOLBrace™ is subject to terms and conditions per the end user license agreement

TOLBrace™ Seismic Bracing Calculations V8.8.136

Contractor: Schram Fire Protection Engir
Address: 6123 Inez St, Suite #5
Ventura, CA 93003
Phone: (805) 650-2511
License: _____
Job # 1VTA21110 Calculations based on 2016 NFPA Pamphlet #13

Project Address: MPC ADMIN FP
Address: 7075 CAMPUS ROAD
MOORPARK, CA 91320
Job # 1VTA21110 Calculations based on 2016 NFPA Pamphlet #13

Brace Information

Maximum Brace Length: 7' 0" (2.134 m)
Diameter of Brace: 1"
Type of Brace: Sch.40
Angle of Brace: 45° Min.
Least Rad. of Gyration: 0.42" (11 mm)
L/R Value: 200
Max Horizontal Load: 1310 lbs (594 kg)

Fastener Information

Orientation to Connecting Surface: NFPA Type B
Fastener Type: Fig.828 Across 1/2" - 7/8" Thick Flange
Diameter: N/A
Length: N/A
Maximum Load: 2947 lbs (1337 kg)
Prying Factor: N/A

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 4L Clamp	2000 lbs (907 kg)	2074 lbs (941 kg)
Fig.980 - 1/2" Universal Swivel	2100 lbs (953 kg)	2178 lbs (988 kg)
Fig.828 Across 1/2" - 7/8" Thi	2009 lbs (911 kg)	2083 lbs (945 kg)

*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Seismic Brace Assembly Detail

SEE DETAIL 20 ON THIS SHEET

Brace Identification on Plans Long.B
Brace Type Lateral [] Longitudinal [X] 4-Way []

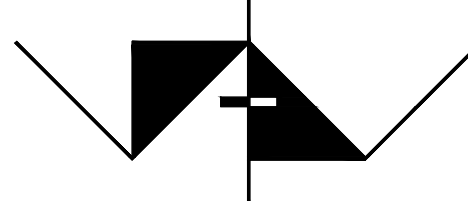
Sprinkler System Load Calculation (Fpw = CpWp)
Cp = 0.932

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
2.5" (65 mm)	Sch. 10	80 ft (24.4 m)	80 ft (24.4 m)	5.89 lb/ft (8.77 kg/m)	471 lbs (214 kg)

Subtotal Weight: 471 lbs (214 kg)
Wp (incl. 15%) 542 lbs (246 kg)
Total (Fpw) 740 lbs (336 kg)
Main Size 2.5" Type/Sch. Sch. 10 Spacing (ft) 80 Maximum Fpw per 9.3.5.5.2 (if applicable) N/A
(TOLBrace™ Version 8) Use of TOLBrace™ is subject to terms and conditions per the end user license agreement

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123218 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/11/2024



**AMADOR WHITTLE
ARCHITECTS, INC.**

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3536, (818) 674-0071

Ventura County Community College

PROJECT TITLE

**ADMINISTRATION
BUILDING RENOVATION**

7075 CAMPUS ROAD
MOORPARK, CA 91320

CONSULTANT



STAMPS/SEALS



DATE: 11/16/21 SHEET: 1 OF 1

SHEET TITLE:

**SECTIONS &
DETAILS**

PROJECT NO: 21-MPC-040 PROJECT ARCH: JS
DRAWN: BF CHECKED: JS

FP-3

DATE: 11/16/21 SHEET: 1 OF 1

IF THIS SHEET IS NOT 30" X 42", IT IS NOT FULL SIZE. SCALE ACCORDINGLY