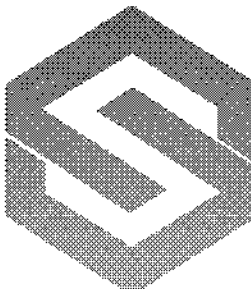


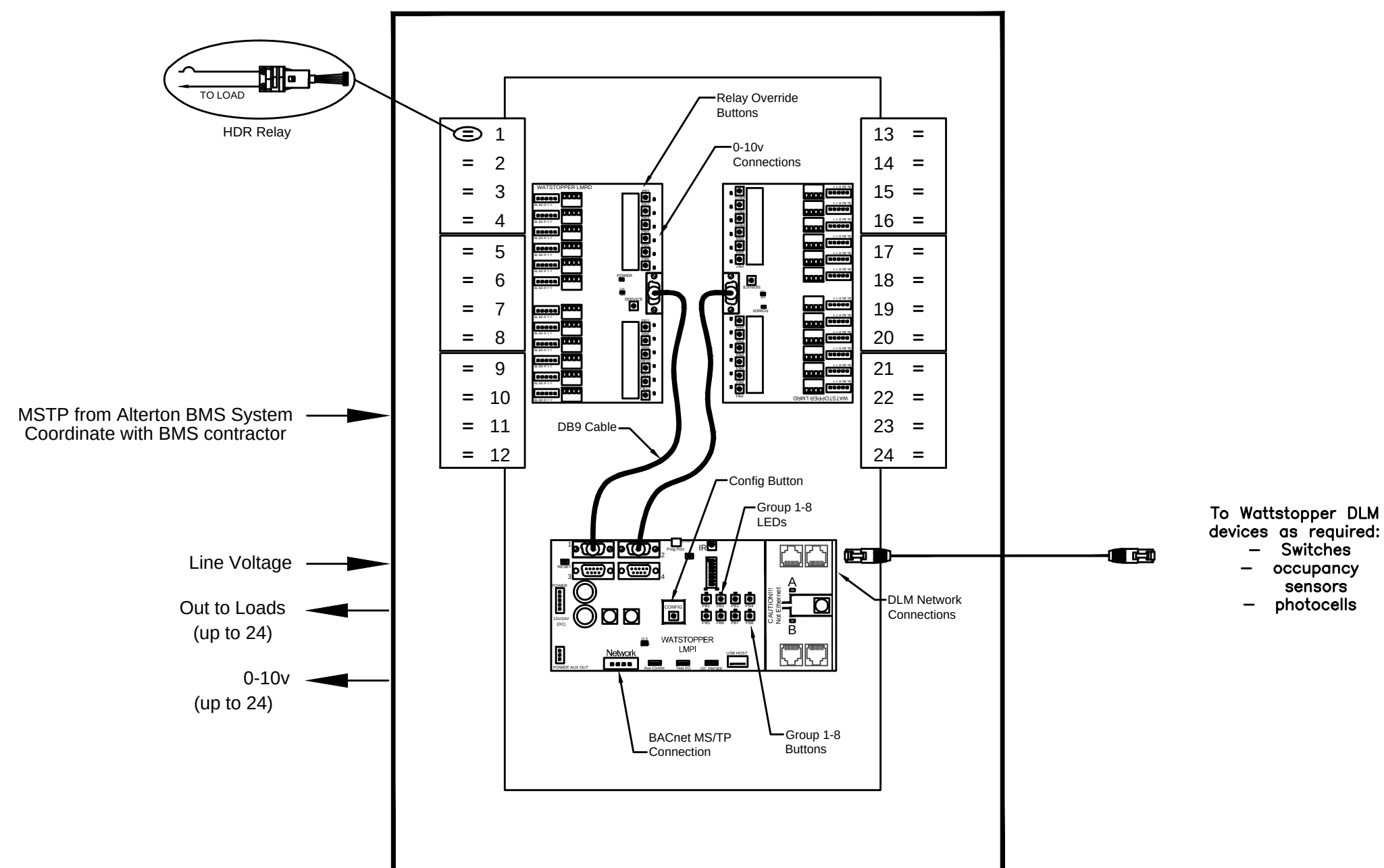
COLUMBIA STORM PROCESSING									
LIGHTING FIXTURE SCHEDULE									
TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMPS		VOLTS	DIM TYPE	MOUNTING	REMARKS
				Type	Total Wattage				
A	HE WILLIAMS	FT-24-LS-8CS-AF-DIM-UNV-27W	2X4 LED BASKET W/ FIELD SELECTABLE LUMENS AND COLOR TEMP	LEDI4K	47MAX	UNV	0-10V	RECESSED	
AE	HE WILLIAMS	FT-24-LS-8CS-AF-EM10W-DIM-UNV-27W	2X4 LED BASKET W/ FIELD SELECTABLE LUMENS AND COLOR TEMP W/ BATTERY	LEDI4K	47MAX	UNV	0-10V	RECESSED	
A2	HE WILLIAMS	FT-24-LS-8CS-AF-DIM-UNV-39W	2X4 LED BASKET W/ FIELD SELECTABLE LUMENS AND COLOR TEMP	LEDI4K	47MAX	UNV	0-10V	RECESSED	
A2E	HE WILLIAMS	FT-24-LS-8CS-AF-EM10W-DIM-UNV-39W	2X4 LED BASKET W/ FIELD SELECTABLE LUMENS AND COLOR TEMP W/ BATTERY	LEDI4K	47MAX	UNV	0-10V	RECESSED	
B	HE WILLIAMS	FT-22-LS-8CS-AF-DIM-UNV-24W	2X2 LED BASKET W/ FIELD SELECTABLE LUMENS AND COLOR TEMP	LEDI4K	47MAX	UNV	0-10V	RECESSED	
BE	HE WILLIAMS	FT-22-LS-8CS-AF-EM10W-DIM-UNV-24W	2X2 LED BASKET W/ FIELD SELECTABLE LUMENS AND COLOR TEMP W/ BATTERY	LEDI4K	47MAX	UNV	0-10V	RECESSED	
B2	HE WILLIAMS	FT-22-LS-8CS-AF-DIM-UNV-33W	2X2 LED BASKET W/ FIELD SELECTABLE LUMENS AND COLOR TEMP	LEDI4K	47MAX	UNV	0-10V	RECESSED	
B2E	HE WILLIAMS	FT-22-LS-8CS-AF-EM10W-DIM-UNV-33W	2X2 LED BASKET W/ FIELD SELECTABLE LUMENS AND COLOR TEMP W/ BATTERY	LEDI4K	47MAX	UNV	0-10V	RECESSED	
C	BEGHELLI	BS100LED-4-HT-LO-WT40-120-277	4' LED VAPOR PROOF	LEDI4K	40	UNV	0-10V	SURFACE	
CE	BEGHELLI	BS100LED-4-SA-LO-WT40-120-277	4' LED VAPOR PROOF W/ BATTERY	LEDI4K	40	UNV	0-10V	SURFACE	
C2	BEGHELLI	BS100LED-4-HT-MO-WT40-120-277	4' LED VAPOR PROOF	LEDI4K	50	UNV	0-10V	SURFACE	
C2E	BEGHELLI	BS100LED-4-SA-MO-WT40-120-277	4' LED VAPOR PROOF W/ BATTERY	LEDI4K	50	UNV	0-10V	SURFACE	
D	HE WILLIAMS	17-4-L55-840-AF-DIM-UNV	4' LED WRAP	LEDI4K	42.3	UNV	0-10V	SURFACE	
DE	HE WILLIAMS	17-4-L55-840-AF-EM10W-DIM-UNV	4' LED WRAP W/ BATTERY	LEDI4K	42.3	UNV	0-10V	SURFACE	
D2	HE WILLIAMS	17-2-L27-840-AF-DIM-UNV	2' LED WRAP	LEDI4K	21.3	UNV	0-10V	SURFACE	
D2E	HE WILLIAMS	17-2-L27-840-AF-EM10W-DIM-UNV	2' LED WRAP W/ BATTERY	LEDI4K	21.3	UNV	0-10V	SURFACE	
F	FC LTG	FCSL1016-120-3K-CR190-08L-FINISH-PE+PIR	LED STEP LIGHT W/ SENSOR	LEDI3K	2.2	120	N/A	RECESSED	
G	LITON	LCMPD12R-FINISH-UE-D10-TS40	12" ROUND LED SHALLOW	LEDI4K	22	UNV	0-10V	J-BOX	
H	LITON	LCMPD5R-FINISH-UE-D10-TS35	5" ROUND LED SHALLOW	LEDI35K	11	UNV	0-10V	J-BOX	
K	HE WILLIAMS	6DR-TL-L15-840-DIM-UNV/S-W-OF-WH-MWT/N-F1	6" LED SHOWER RATED DOWN LIGHT	LEDI4K	13.8	UNV	0-10V	RECESSED	
W	GARDCO	GWS-A02-740-T4M-UNV-FINISH	LED WALL PACK	LEDI4K	17	UNV	0-10V	WALL	
W2	GARDCO	GWS-A05-740-T4M-UNV-FINISH	LED WALL PACK	LEDI4K	41	UNV	0-10V	WALL	
EX	BEGHELLI	EPX-SA	LED PLASTIC EXIT	LED	3	UNV	N/A	SURFACE	
LIGHTING SCHEDULE NOTES:									
1. CONTACT SESCO LIGHTING (PATTY ROSSIELLO) @ 561-632-4192 OR prossiello@sescolighting.com									
2. THE ABOVE FIXTURE SCHEDULE IS PREDICATED ON PERFORMANCE AND IS DESIGNED TO MEET CERTAIN AESTHETIC CRITERIA. ALL ALTERNATIVE SELECTIONS MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL TEN (10) DAYS PRIOR TO BID DATE.									
3. SUBMITTAL MUST INCLUDE ITL CERTIFIED PHOTOMETRIC FILES FOR REVIEW OF EQUALITY.									
4. NO SUBSTITUTIONS ALLOWED.									
 SESCO L I G H T I N G									

LIGHTING CONTROLS

ALL LOW VOLTAGE SYSTEMS SHALL BE PROVIDED BY THE OWNER'S SUBCONTRACTOR. GC TO COORDINATE LOCATIONS AND INFRASTRUCTURE REQUIREMENTS (IE. LINE VOLTAGE, CONDUIT, ETC. COORDINATE WITH APPROVED SHOP DRAWINGS

Lighting Control Panel

Wattstopper LMCP24 Relay Panel

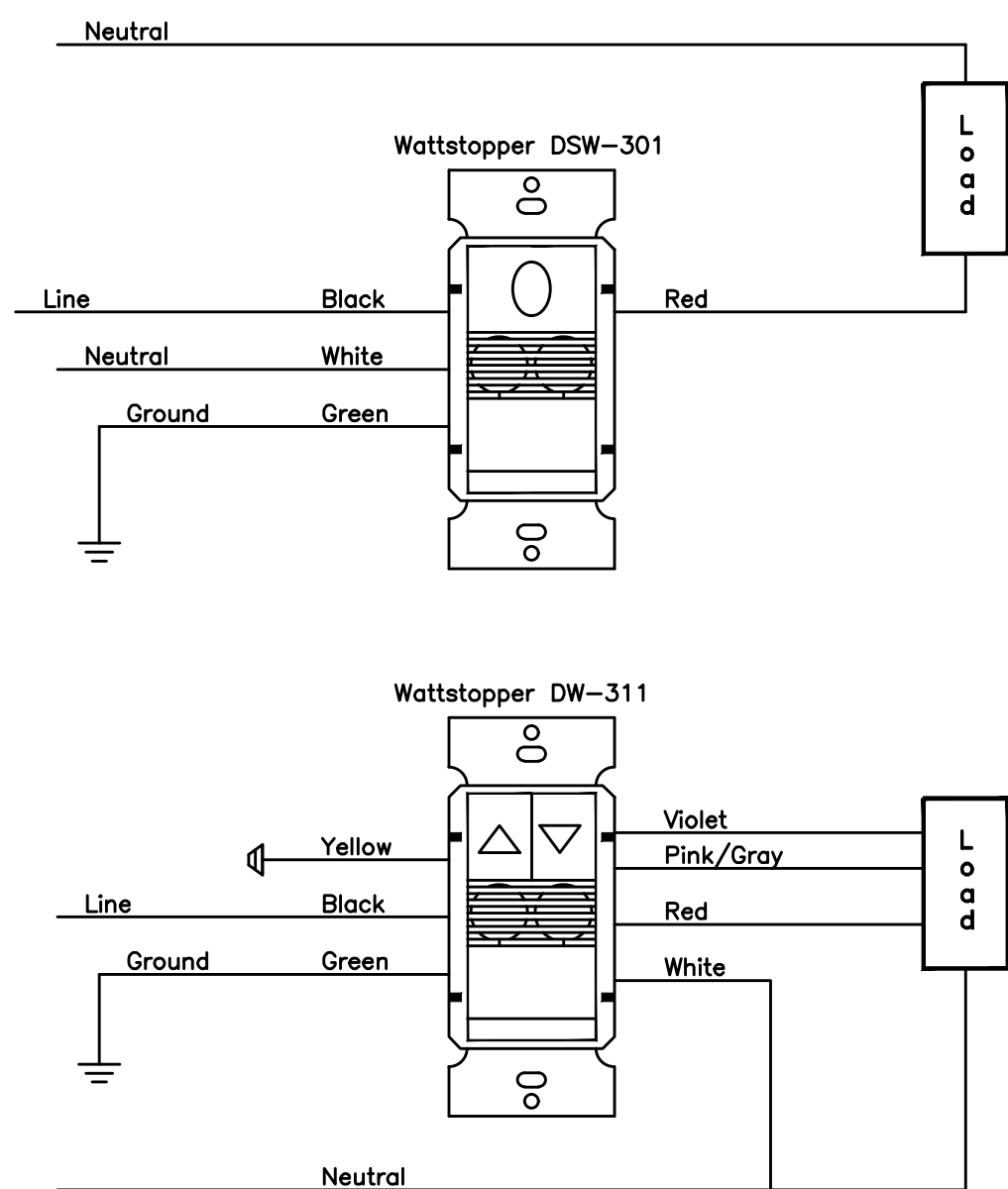


Typical wall mount occupancy/vacancy sensors

Wattstopper Lighting Controls

Sequence of Operation (SOO):

- Lighting shall be programmed for manual on operation
- Local dimming control where shown on plans via raise/lower buttons on device
- Lighting shall automatically turn off after 20 minutes of inactivity



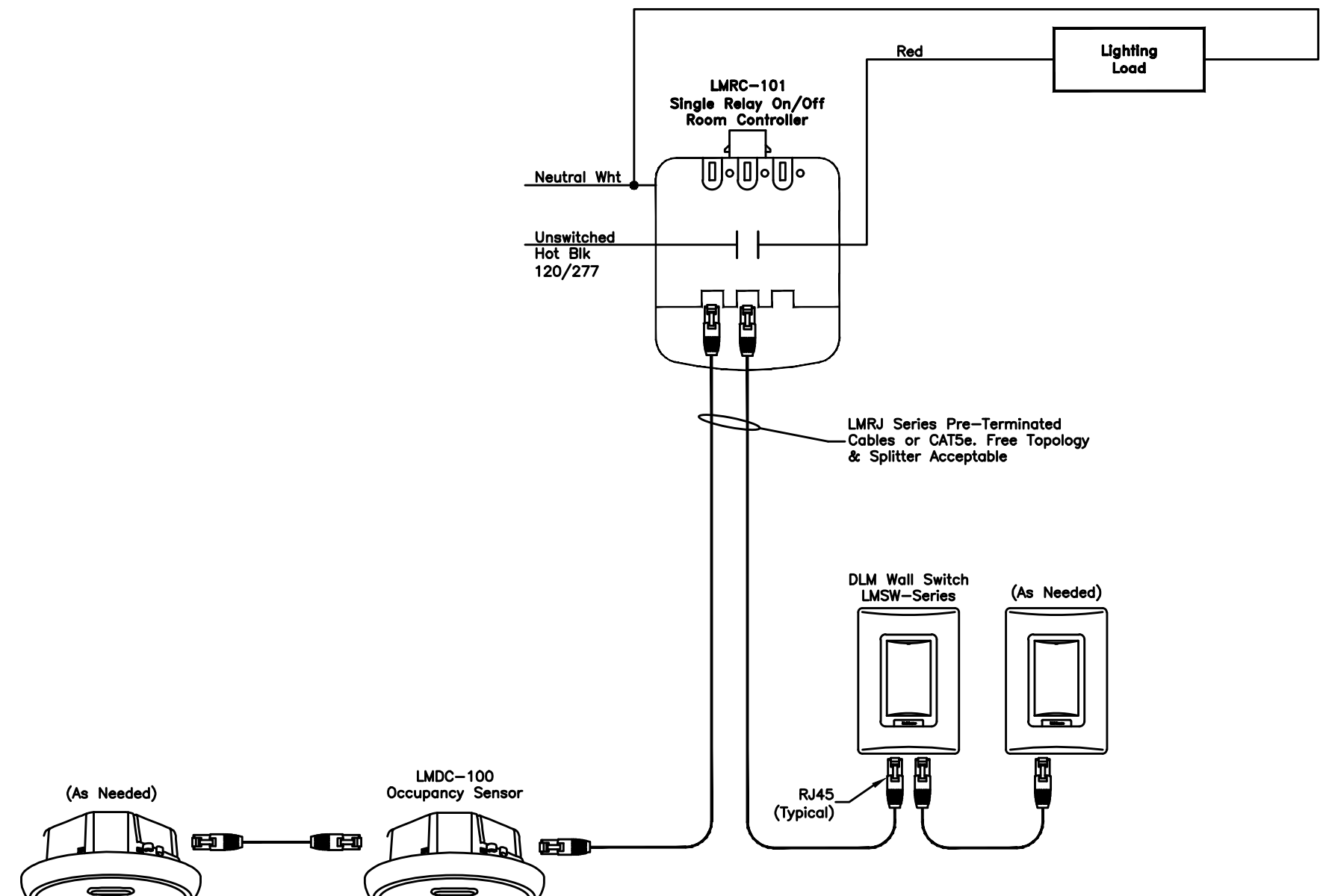
Typical ceiling mount occupancy/vacancy sensors

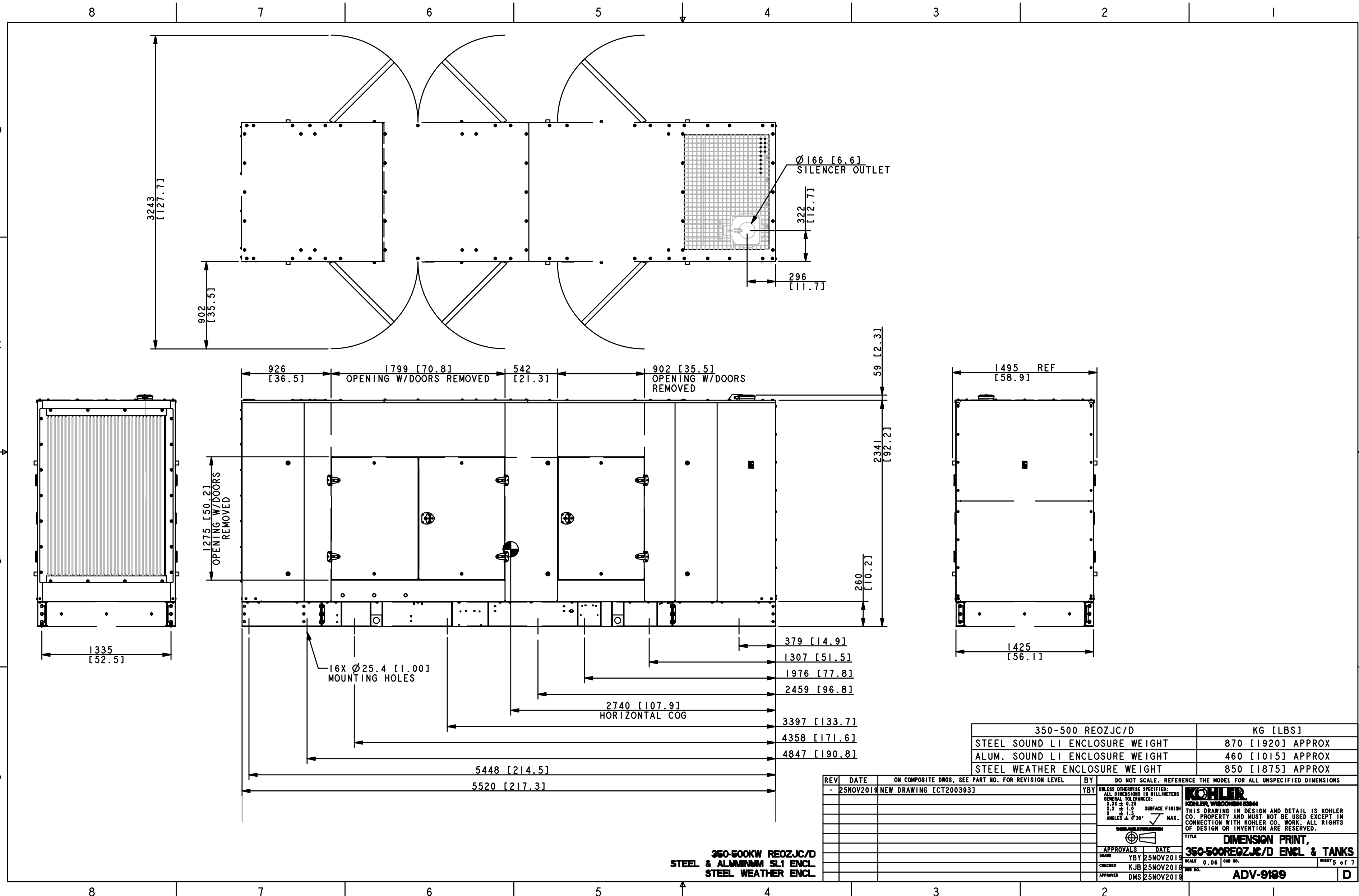
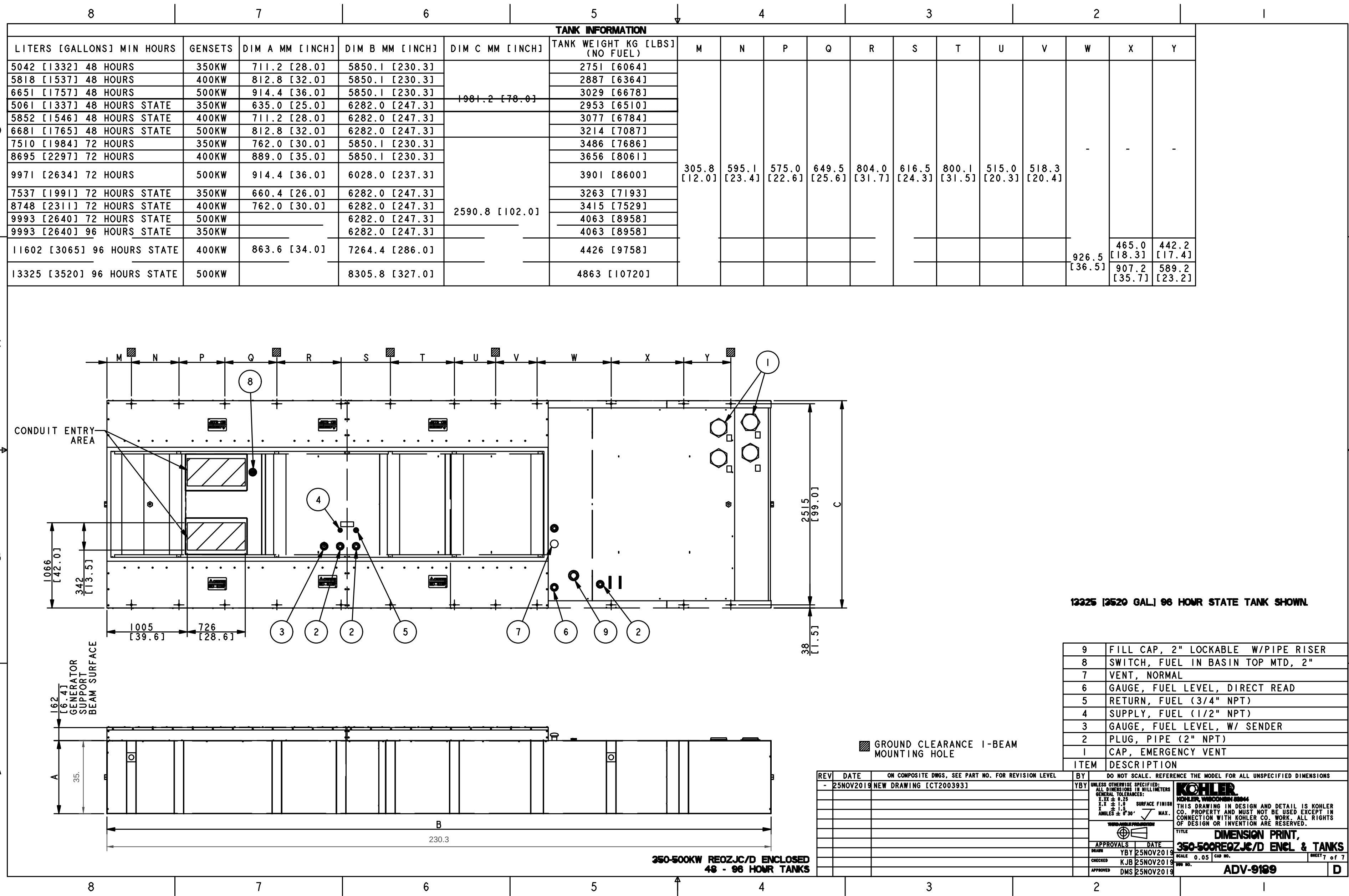
Wattstopper Lighting Controls

Sequence of Operation (SOO):

- Lighting shall be programmed for manual or operation
- Lighting shall automatically turn off after 20 minutes of inactivity

Single Zone Switching Applications





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FLORIDA PROFESSIONAL ENGINEER

No. 78477

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ISSUE FOR

100% CONSTRUCTION DOCUMENTS

ISSUE DATE

12.03.2025

REVISIONS

NO. REASON DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
DAVID LITHGOW

PROJECT MANAGER
DAVID LITHGOW

DESIGN TEAM
CEA

PROJECT NAME
FPL Columbia Storm Processing Facility Phase 2

1185 NW 25A
LAKE CITY, FL 32055

PROJECT NO.

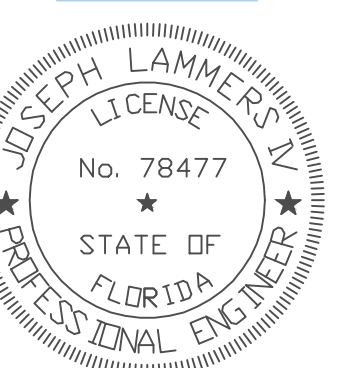
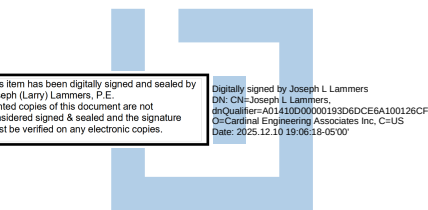
814.C6328.01

SHEET TITLE

LIGHT FIXTURE SCHEDULE

SHEET NUMBER

F-E003



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PE # 78477
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DOCUMENTS

2.03.2025

DISPOSITIONS		
D.	REASON	DATE

[illegible]

PROJECT TEAM	
PRINCIPAL IN CHARGE	
DAVID LITHGOW	
PROJECT MANAGER	
DAVID LITHGOW	
DESIGN TEAM	
EA	

PL Columbia Storm
Processing Facility Phase 2
85 NW 25A
LAKE CITY, FL 32055

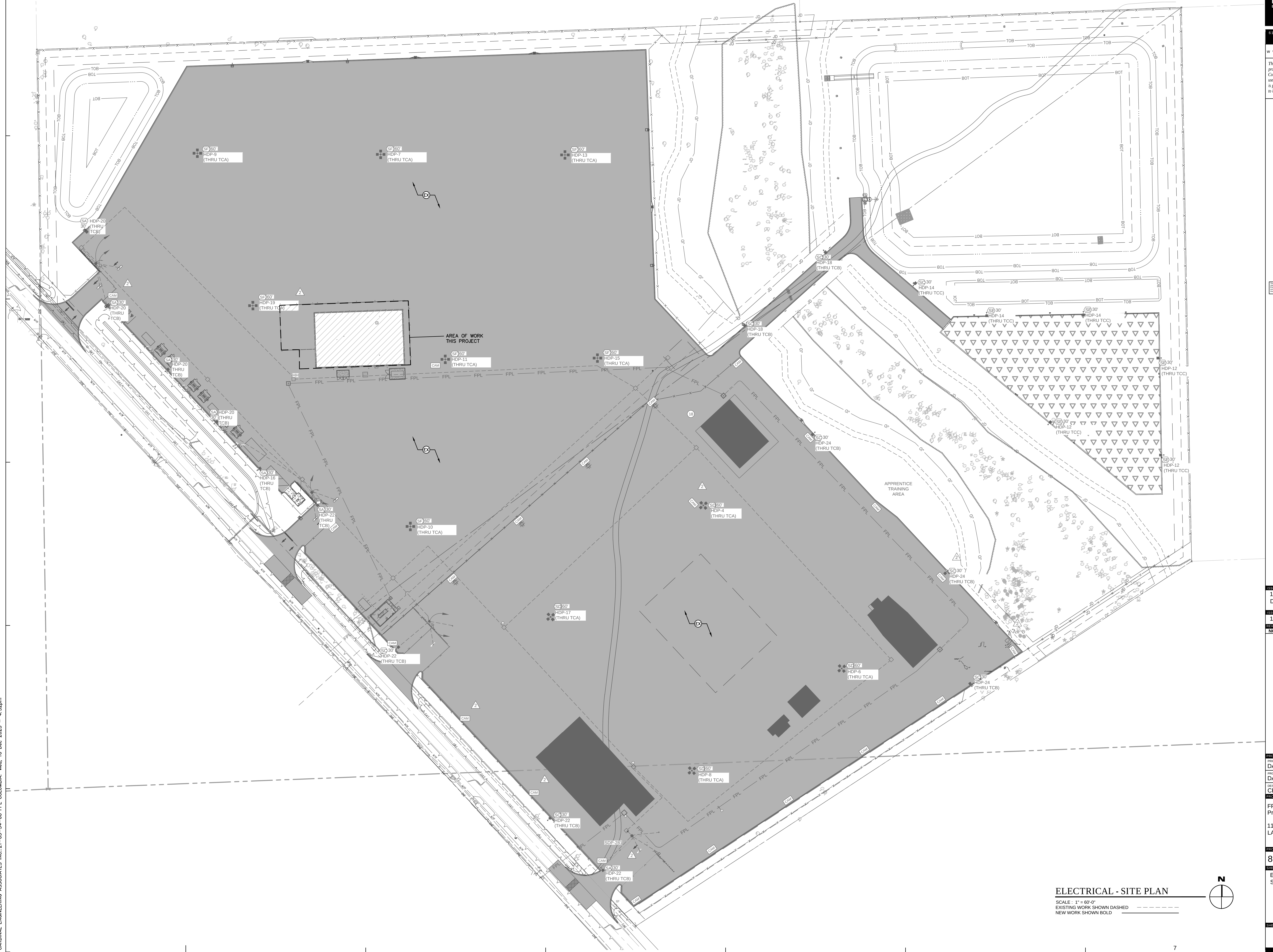
SUBJECT NO. _____

14.C6328.01

ELECTRICAL
SITE PLAN

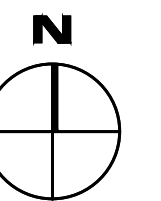
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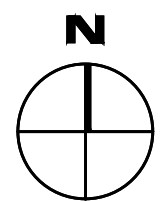
F-ES101



ELECTRICAL - SITE PLAN

SCALE : 1" = 60'-0"
EXISTING WORK SHOWN DASHED
NEW WORK SHOWN BOLD

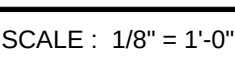




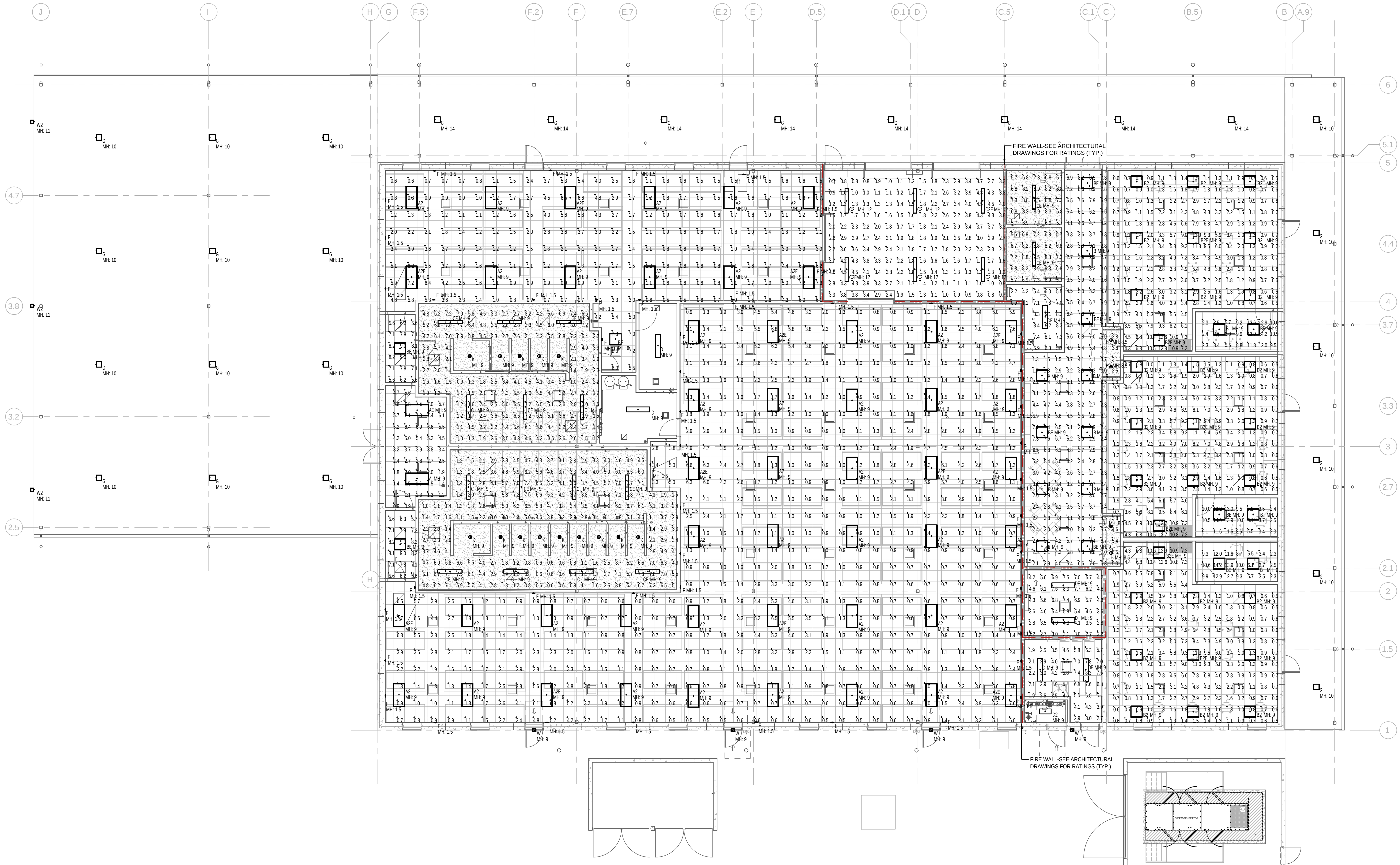
SCALE : 1/8" = 1'-0'

7

NO.	DATE:	DESCRIPTION	BY
REVISIONS			
EVALUATION: LIGHTNING PROTECTION SYSTEM			
PROJECT: FPL COLUMBIA STORM PROCESSING FACILITY PHASE 2 FLORIDA			
INSTALLER & DESIGNER:  BONDED LIGHTNING PROTECTION SYSTEMS, INC. INSTALLING MEMBER OF THE LIGHTNING PROTECTION INSTITUTE PHONE: 561-746-4336 FAX: 561-747-8233 2080 W. INDIANWOOD ROAD SUITE 100 JUPITER, FLORIDA 33458 3333 N. FALKENBURG ROAD UNIT D-401 TAMPA, FLORIDA 33619 1505 CAPITAL CIRCLE NW UNIT B TALLAHASSEE, FLORIDA 32303			
JOB NO.	MANUFACTURER	 EAST COAST LIGHTNING EQUIPMENT L.P.I. - MEMBER - U.L.P.A. PHONE: 1-800-650-3462 E-MAIL: info@eacslc.biz 24 LANSOW DRIVE WINSTED, CT. 06098	
BLD25050			
DWN. BY	RES		
CHK. BY	PCD		
DATE:			
30.OCT.25			
SCALE			
AS SHOWN			
SHEET NO.			
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-OF-			
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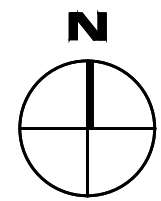


COORDINATE WITH APPROVED SHOP DRAWINGS



Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Description	Tag	
	1	A	Single	FT-24-LS-BCS-AF-DIM-INV_27W_4000K		
	39	A2	Single	FT-24-LS-BCS-AF-DIM-INV_39W_4000K		
	10	B	Single	FT-22-LS-BCS-AF-DIM-INV_24W_4000K		
	24	B2	Single	FT-22-LS-BCS-AF-DIM-INV_33W_4000K		
	7	C	Single	BS100LED4 HT LO W40 120V-27V		
	4	C2	Single	BS100LED4 HT MO W40 120-27V 2CH48		
	4	D	Single	17-4-LS-840-AF-DIM-INV		
	1	D2	Single	17-2-127-840-AF-DIM-INV		
	49	F	Single	PCS1016-120V-3K-CR89-08L-WH-PE+PIR		
	26	G	Single	LCMPOL2QW-740		
	4	H	Single	LCMP2BRW-010-7540		
	14	K	Single	626-TL-4-LS-840-DIM-INV-LW-OF-CS		
	4	W	Single	GWS-A02-840-T4M		
	3	W2	Single	GWS-A05-840-T4M		
	1	AE	Single	FT-24-LS-BCS-AF-EM10W-DIM-INV BATTERY		
	11	AE2	Single	FT-24-LS-BCS-AF-EM10W-DIM-INV BATTERY		
	1	BE	Single	FT-22-LS-BCS-AF-EM10W-DIM-INV BATTERY		
	6	BE2	Single	FT-22-LS-BCS-AF-EM10W-DIM-INV BATTERY		
	9	CE	Single	BS100LED4 SA LO W40 120V-27V BATTERY		
	2	C2E	Single	BS100LED4 SA LO W40 120-27V 2CH48 BATTERY		
	3	DE	Single	17-4-LS-840-AF-EM10W-INV (EMER MODE)		
Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
CORRIDOR_FLOOR	Illuminance	Fc	4.4	8.9	1.3	6.9
ELECTRICAL_FLOOR	Illuminance	Fc	4.7	8.3	1.9	4.4
FINANCE_PROCESSING_Workplane	Illuminance	Fc	2.9	12.9	0.5	25.8
Huddle 1_Workplane	Illuminance	Fc	8.1	14.2	2.3	3.5
Huddle 2_Workplane	Illuminance	Fc	8.1	14.0	2.3	3.5
Huddle 3_Workplane	Illuminance	Fc	8.1	14.2	2.3	3.5
TOP_FLOOR	Illuminance	Fc	4.9	8.3	2.2	3.8
JANITOR ROOF ACCESS_FLOOR	Illuminance	Fc	6.3	9.2	0.9	7.0
MENS QUARTERS_FLOOR	Illuminance	Fc	1.9	7.7	0.5	3.8
MENS QUARTERS_Workplane	Illuminance	Fc	2.2	8.0	0.5	4.4
MENS RR_FLOOR	Illuminance	Fc	7.4	9.5	5.6	1.3
MENS SHOWERS_Workplane	Illuminance	Fc	3.9	7.8	0.6	6.4
MENS VESTIBULE_FLOOR	Illuminance	Fc	7.2	9.1	5.6	1.3
PD PROCESSING_Workplane	Illuminance	Fc	3.0	12.7	0.5	25.4
STORAGE_FLOOR	Illuminance	Fc	2.3	4.5	0.7	3.3
VEGETATION_PROCESSING_Workplane	Illuminance	Fc	2.9	12.8	0.5	25.6
VESTIBULE_FLOOR	Illuminance	Fc	3.8	7.8	0.9	4.3
WOMENS RR_FLOOR	Illuminance	Fc	7.4	9.5	5.7	1.7
WOMENS SHOWERS_Workplane	Illuminance	Fc	3.8	8.0	0.9	4.2
WOMENS VESTIBULE_FLOOR	Illuminance	Fc	7.2	9.0	5.6	1.3

PHOTOMETRIC
SCALE: 1/8" = 1'-0"



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DOCUMENTS

ISSUE DATE
12.03.2025

REVISIONS
NO. REASON DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
DAVID LITHGOW

PROJECT MANAGER
DAVID LITHGOW

DESIGN TEAM
CEA

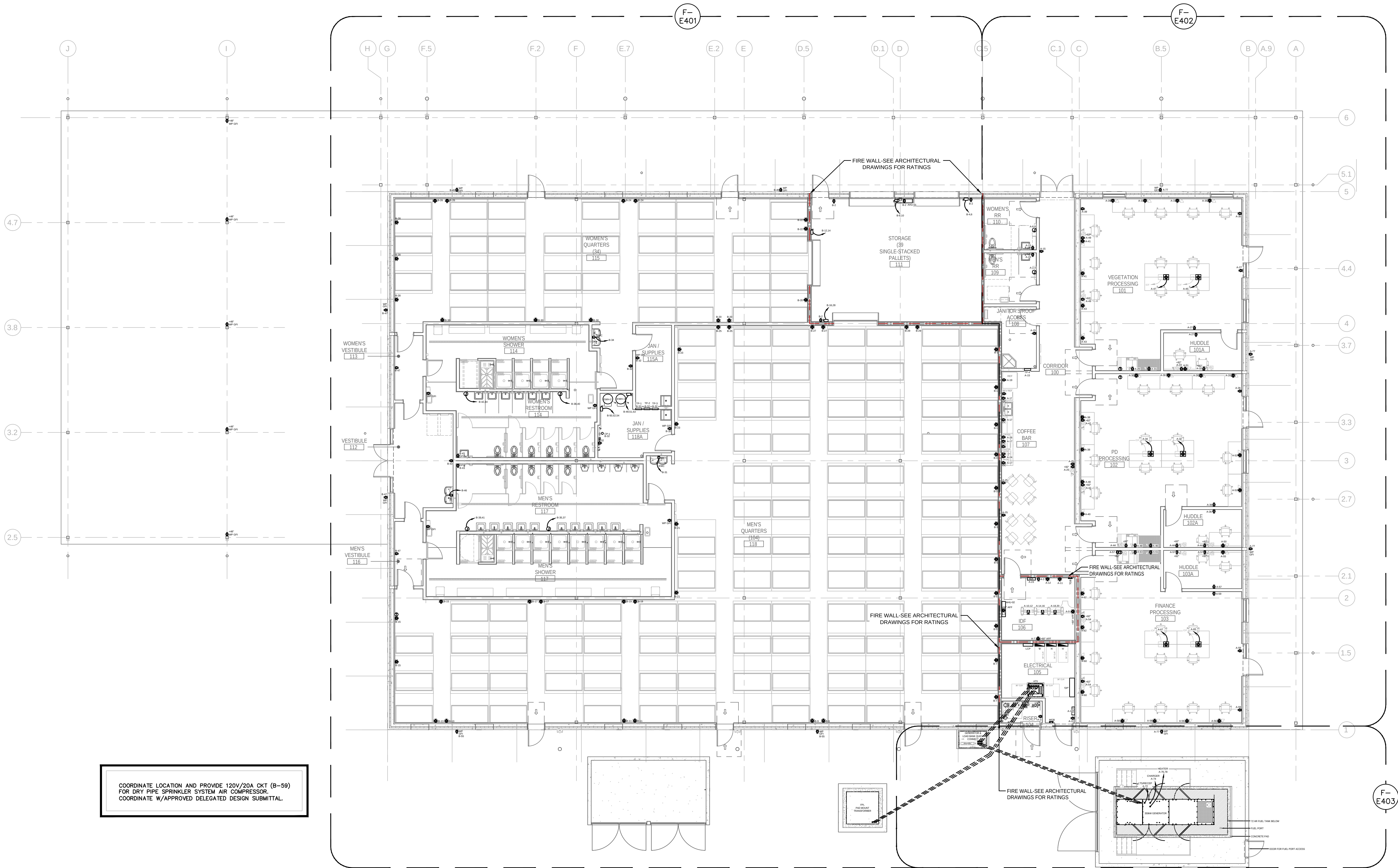
PROJECT NAME
FPL Columbia Storm
Processing Facility Phase 2

1185 NW 25A
LAKE CITY, FL 32055

PROJECT NO.
814.C6328.01

SHEET TITLE
LIGHTING
PLAN

SHEET NUMBER
F-EL102



ELECTRICAL - OVERALL POWER PLAN

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

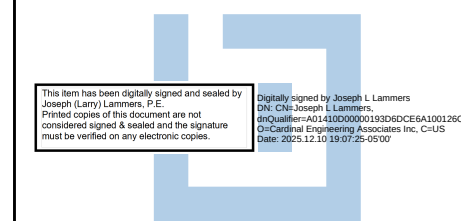


GENERAL NOTES THIS DRAWING

- CONTROL WIRING FOR MECHANICAL EQUIPMENT AND SYSTEMS PLANS (F-T101 - F-T102) WILL BE PROVIDED BY THE DIVISION 23 CONTRACTOR UNLESS OTHERWISE NOTED.
- REFER TO SYSTEMS PLANS (F-T101 THRU F-T102) FOR COMMUNICATIONS DEVICES. WHERE 120V RECEPTACLE ARE IN CLOSE PROXIMITY TO COMMUNICATIONS DEVICES, SUCH DEVICES SHALL BE INSTALLED AT THE SAME HEIGHT AS RECEPTACLES WITH NO MORE THAN 2" OF SEPARATION BETWEEN THEM.
- COORDINATE LOCATION OF FLOOR BOXES WITH OWNER AND FURNITURE PROVIDERS. LOCATIONS SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION.

KEYED NOTES (X)

- ALL GROUND MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON A 4" HOUSEKEEPING PAD.



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ISSUE DATE
12.03.2025

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PROJECT TEAM
PRINCIPAL IN CHARGE
DAVID LITHGOW
PROJECT MANAGER
DAVID LITHGOW
DESIGN TEAM
CEA

FPL Columbia Storm
Processing Facility Phase 2
1185 NW 25A
LAKE CITY, FL 32055

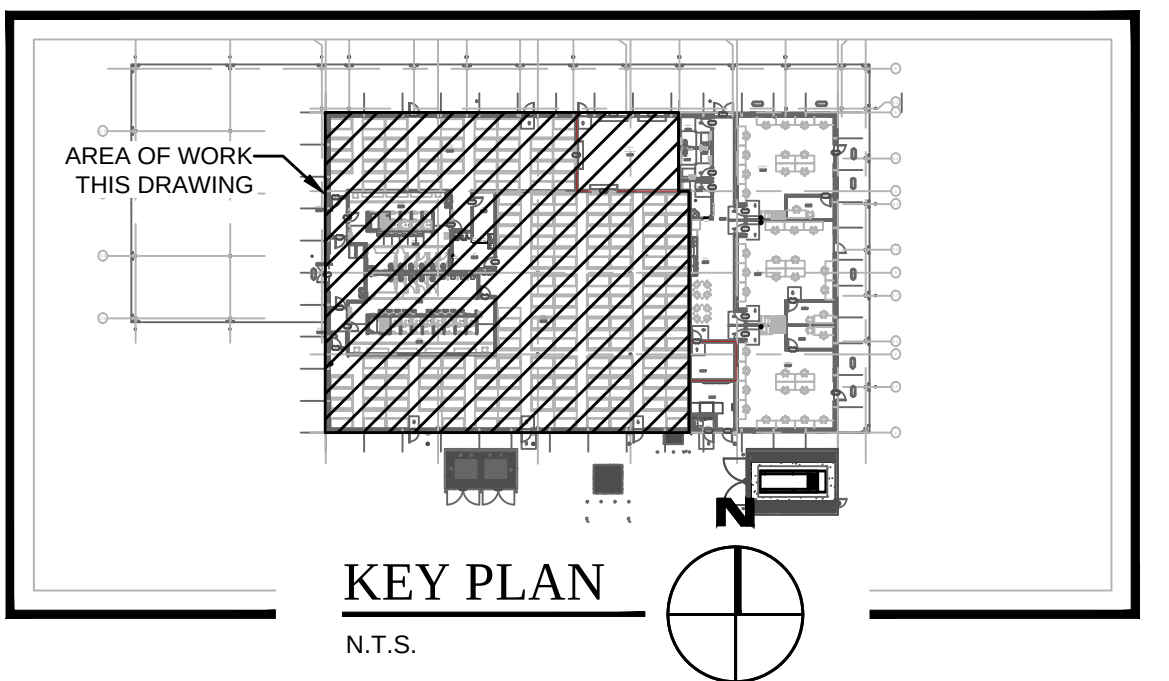
PROJECT NO.
814.C6328.01

SHEET TITLE
OVERALL
POWER PLAN

SHEET NUMBER

F-EP101

SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

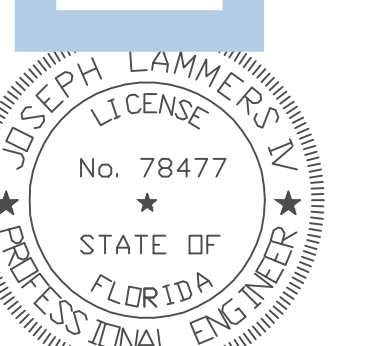
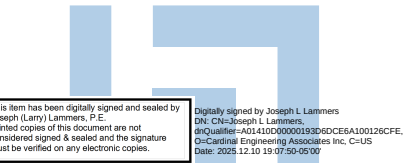


GENERAL NOTES THIS DRAWING

1. CONTROL WIRING FOR MECHANICAL EQUIPMENT AND SYSTEMS PLANS (F-T101 - F-T102) WILL BE PROVIDED BY THE DIVISION 23 CONTRACTOR UNLESS OTHERWISE NOTED.
2. REFER TO SYSTEMS PLANS (F-T101 THRU F-T102) FOR COMMUNICATIONS DEVICES. WHERE 120V RECEPTACLE ARE IN CLOSE PROXIMITY TO COMMUNICATIONS DEVICES, SUCH DEVICES SHALL BE INSTALLED AT THE SAME HEIGHT AS RECEPTABLES WITH NO MORE THAN 2" OF SEPARATION BETWEEN THEM.
3. COORDINATE LOCATION OF FLOOR BOXES WITH OWNER AND FURNITURE PROVIDERS. LOCATIONS SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION.
4. REFER TO FA-01 FIRE ALARM DEVICE LAYOUT FOR FIRE ALARM DEVICES. COORDINATE WITH MECHANICAL TRADE AND APPROVED FIRE ALARM SHOP DRAWINGS.

KEYED NOTES (X) NOT ALL KEYED NOTES
PERTAIN TO CURRENT SHEET

- 1 ALL GROUND MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON A 4" HOUSEKEEPING PAD.
- 2 PROVIDE GFCI TYPE BRANCH CIRCUIT BREAKER AT SOURCE PANELBOARD FOR RECEPTACLES AS INDICATED.
- 3 TV RECEPS. COORDINATE WARCHTECT FOR EXACT HEIGHT & LOCATION.
- 4 LEGRAND FOUR COMPARTMENT FLOOR BOXES DESIGN TO INCLUDE POWER, COMMUNICATIONS AND AV DEVICES. COORDINATE EXACT LOCATION WITH OWNER, ARCHITECT & FURNITURE SUPPLIER IN FIELD PRIOR TO RUGH-IN.
- 5 AUTOMATIC TOUCHLESS ROLL TOWEL DISP. PROVIDE CONNECTIONS PER MANUFACTURER.
- 6 ALL GROUND MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON 4" X 4" HOUSEKEEPING PAD.
- 7 ALLOCATE 3'-0" OF WALL SPACE FROM FLOOR TO CEILING FOR BDA (BIDIRECTION AMPLIFIER). PROVIDE 3" CONDUIT WITH NYLON PULLSTRIP FROM LOCATION OF BDA TO THE DONOR ANTENNA LOCATION.
- 8 AHU WITH SINGLE POINT OF UTILITY POWER CONNECTION AT CONDENSING UNIT. SEE EP-102 ROOF PLAN.
- 9 CONNECT OVERHEAD POWER OPERATOR, CONTROLS AND SAFETY INTERLOCKS IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND MANUFACTURERS INSTALLATION DRAWINGS.
- 10 CONNECT FIRE SHUTTER OPERATOR, CONTROLS AND SAFETY INTERLOCKS IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND MANUFACTURERS INSTALLATION DRAWINGS.



JOSEPH L. LAMMERS ,PE
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100% CONSTRUCTION DOCUMENTS

2.03.2025

DISPOSITIONS		
D.	REASON	DATE

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PRINCIPAL IN CHARGE
DAVID LITIGOW

DAVID LITHGOW
PROJECT MANAGER

DAVID LITHGOW

DESIGN TEAM

01 Columbia Storms

Processing Facility Phase 2

85 NW/35A

LAKE CITY, FL 32055

PROJECT NO. _____

14.C6328.01

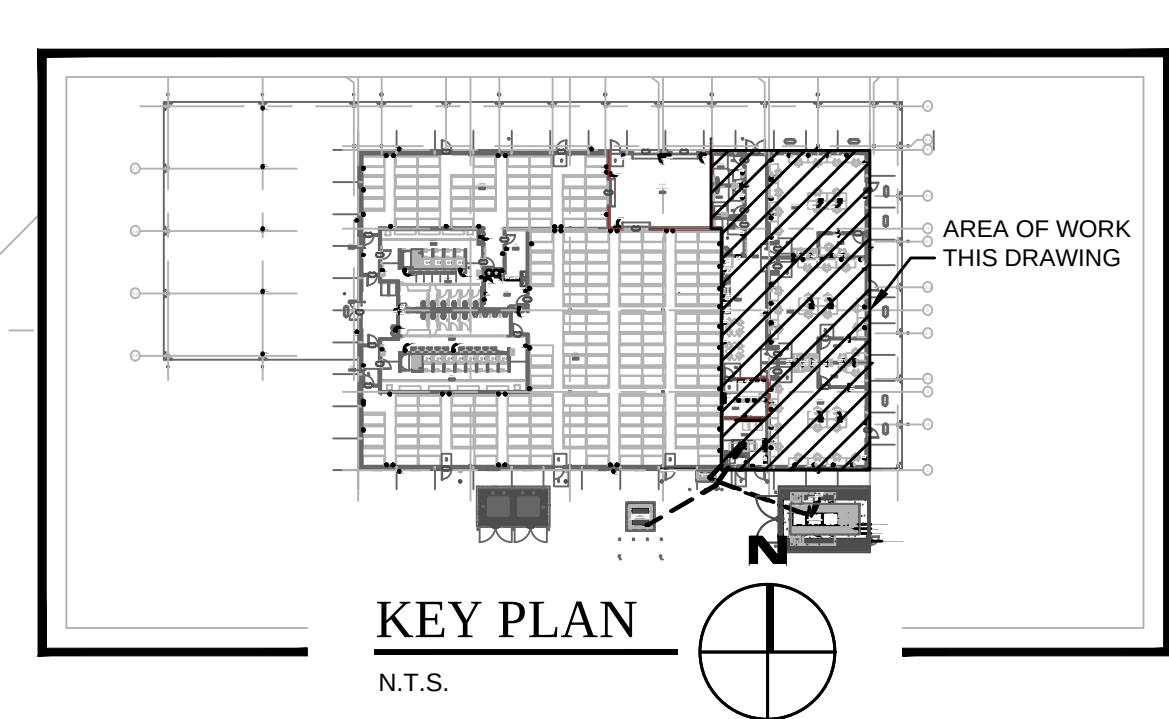
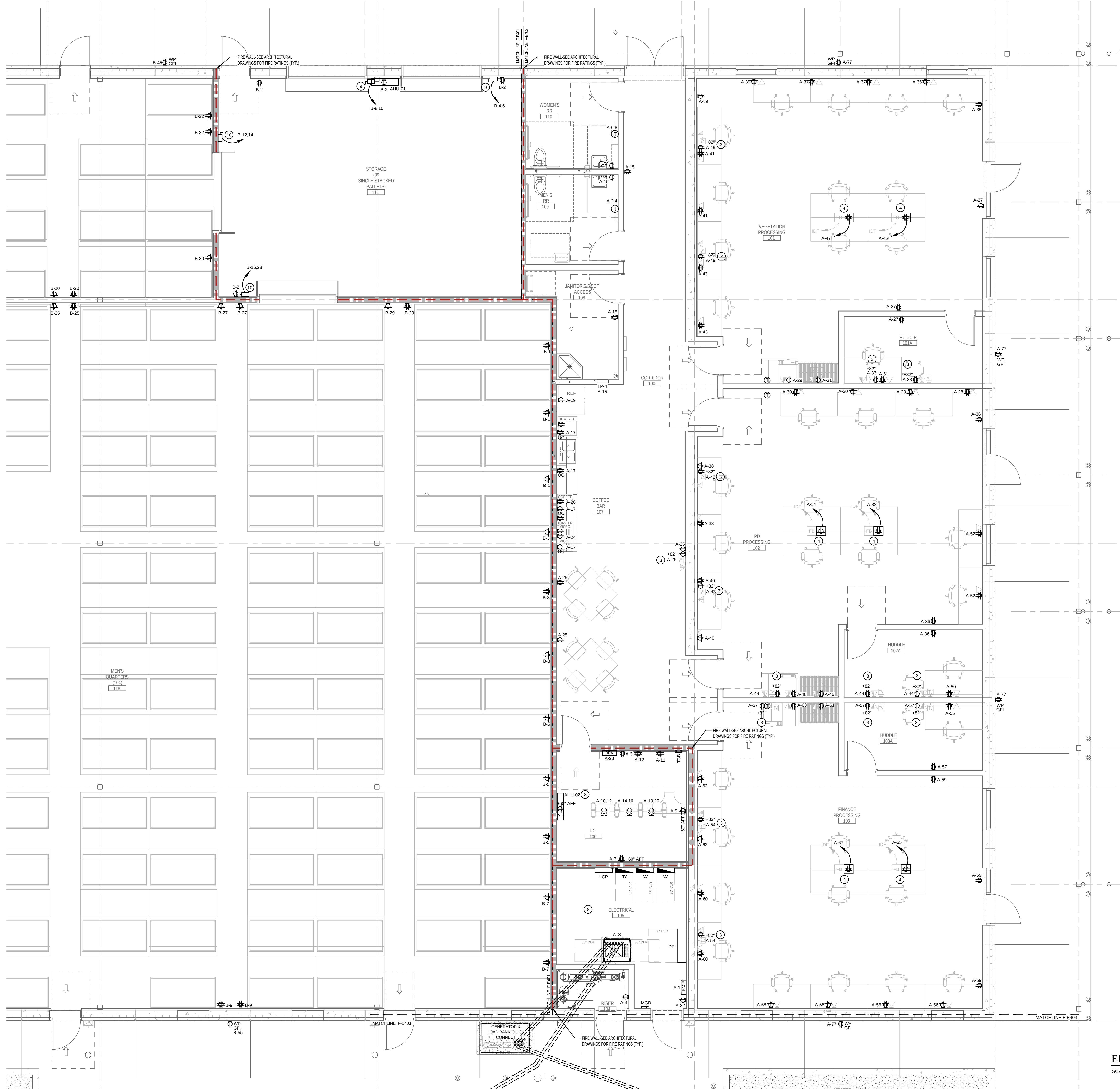
PARTIAL

POWER PLAN

ET NUMBER

55491

F-E401



- ### GENERAL NOTES THIS DRAWING
- CONTROL WIRING FOR MECHANICAL EQUIPMENT AND SYSTEMS PLANS (F-T101 - F-T102) WILL BE PROVIDED BY THE DIVISION 23 CONTRACTOR UNLESS OTHERWISE NOTED.
 - REFER TO SYSTEMS PLANS (F-T101 THRU F-T102) FOR COMMUNICATIONS DEVICES. WHERE 120V RECEPTACLE ARE IN CLOSE PROXIMITY TO COMMUNICATIONS DEVICES, SUCH DEVICES SHALL BE INSTALLED AT THE SAME HEIGHT AS RECEPTABLES WITH NO MORE THAN 2" OF SEPARATION BETWEEN THEM.
 - COORDINATE LOCATION OF FLOOR BOXES WITH OWNER AND FURNITURE PROVIDERS. LOCATIONS SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION.
 - REFER TO F-FA101 FIRE ALARM DEVICE LAYOUT FOR FIRE ALARM DEVICES. COORDINATE WITH MECHANICAL TRADE AND APPROVED FIRE ALARM SHOP DRAWINGS.

- ### KEYED NOTES (X) NOT ALL KEYED NOTES PERTAIN TO CURRENT SHEET
- ALL GROUND MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON A 4" HOUSEKEEPING PAD.
 - PROVIDE GFCI TYPE BRANCH CIRCUIT BREAKER AT SOURCE PANELBOARD FOR RECEPTABLES AS INDICATED.
 - TV RECEPTS. COORDINATE WITH ARCHITECT FOR EXACT HEIGHT & LOCATION.
 - LEGRAND FOUR COMPARTMENT FLOOR BOXES DESIGN TO INCLUDE POWER, COMMUNICATIONS AND AV DEVICES. COORDINATE EXACT LOCATION WITH OWNER, ARCHITECT & FURNITURE SUPPLIER IN FIELD PRIOR TO ROUGH-IN.
 - AUTOMATIC TOUCHLESS ROLL TOWEL DISP. PROVIDE CONNECTIONS PER MANUFACTURER.
 - ALL GROUND MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON A 4" HOUSEKEEPING PAD.
 - ALLOCATE 3'-0" OF WALL SPACE FROM FLOOR TO CEILING FOR BDA (BIODIRECTION AMPLIFIER). PROVIDE 3" CONDUIT WITH NYLON PULLSTRING FROM LOCATION OF BDA TO THE DONOR ANTENNA LOCATION.
 - AHU WITH SINGLE POINT OF UTILITY POWER CONNECTION AT CONDENSING UNIT. SEE EP-102 ROOF PLAN.
 - CONNECT OVERHEAD DOOR OPERATOR, CONTROLS AND SAFETY INTERLOCKS IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND MANUFACTURERS INSTALLATION DRAWINGS.
 - CONNECT FIRE SHUTTER OPERATOR, CONTROLS AND SAFETY INTERLOCKS IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND MANUFACTURERS INSTALLATION DRAWINGS.

ELECTRICAL - PARTIAL POWER PLAN
SCALE: 1/4" = 1'-0"

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ISSUE FOR 100% CONSTRUCTION DOCUMENTS		
ISSUE DATE 12.03.2025		
NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
DAVID LITHGOW

PROJECT MANAGER
DAVID LITHGOW

DESIGN TEAM
CEA

PROJECT NAME
FPL Columbia Storm Processing Facility Phase 2

1185 NW 25A
LAKE CITY, FL 32055

PROJECT NO.
814.C6328.01

SHEET TITLE
PARTIAL POWER PLAN

SHEET NUMBER
F-E402



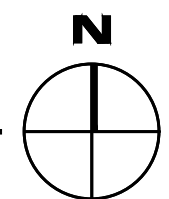
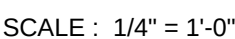
1. CONTROL WIRING FOR MECHANICAL EQUIPMENT AND SYSTEMS PLANS (F-T101) - F-T102 WILL BE PROVIDED BY THE DIVISION 23 CONTRACTOR UNLESS OTHERWISE NOTED.
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3. COORDINATE LOCATION OF FLOOR BOXES WITH OWNER AND FURNITURE PROVIDERS. LOCATIONS SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION.
4. REFER TO F-TA01 FIRE ALARM DEVICE LAYOUT FOR FIRE ALARM DEVICES. COORDINATE WITH MECHANICAL TRADE AND APPROVE FIRE ALARM SHOP DRAWINGS.

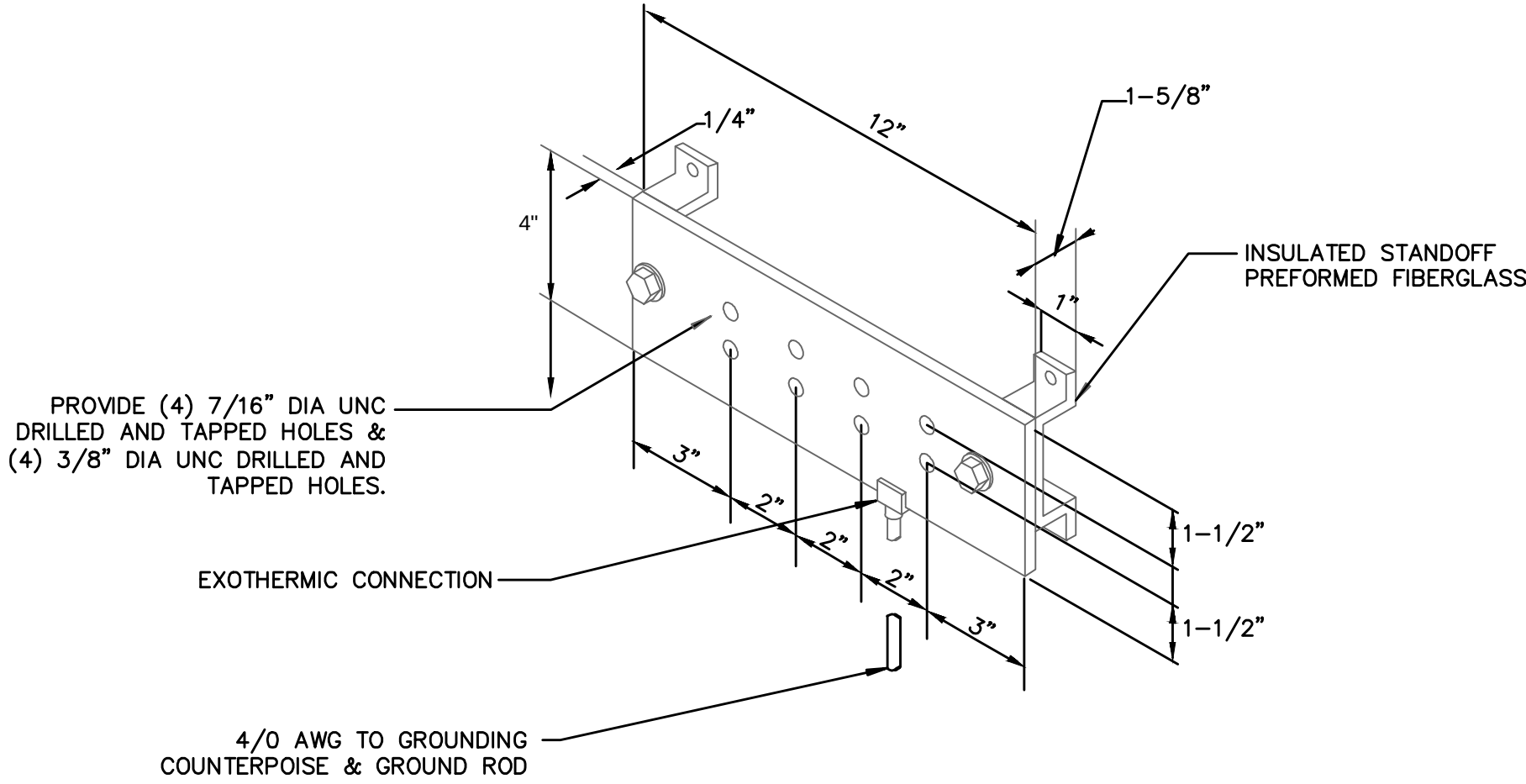
NOT ALL KEYED NOTES
PERTAIN TO CURRENT SHEET

- 1 ALL GROUND MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON A 4" HOUSEKEEPING PAD.
- 2 PROVIDE GFCI TYPE BRANCH CIRCUIT BREAKER AT SOURCE PANELBOARD FOR RECEPTABLES AS INDICATED.
- 3 TR RECEPTS. COORDINATE WITHARCHITECT FOR EXACT HEIGHT & LOCATION.
- 4 LEGRAND FOUR COMPARTMENT FLOOR BOXES DESIGN TO INCLUDE POWER, COMMUNICATIONS AND AV DEVICES. COORDINATE EXACT LOCATION WITH OWNER, ARCHITECT & FURNITURE SUPPLIER IN FIELD PRIOR TO ROUGH-IN.
- 5 AUTOMATIC TOUCHLESS ROOL TOWEL DISP. PROVIDE CONNECTIONS PER MANUFACTURER.
- 6 ALL GROUND MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON A 4" HOUSEKEEPING PAD.
- 7 ALLOCATE 3'-0" OF WALL SPACE FROM FLOOR TO CEILING FOR BDA (BIDING AND UNFILLER). PROVIDE 3" COORDIT WITH NYLON PULLSTROUNG FROM LOCATION OF BDA TO THE DONOR ANTENNA LOCATION.
- 8 AHU WITH SINGLE POINT OF UTILITY POWER CONNECTION AND SAFETY SHUT-OFF UNIT. SEE E-102 ROOF PLAN.
- 9 CONNECT OVERHEAD DOOR OPERATOR, CONTROLS AND SAFETY INTERLOCK IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND MANUFACTURERS INSTALLATION DRAWINGS.
- 10 CONNECT FIRE SHUTTER OPERATOR, CONTROLS AND SAFETY INTERLOCK IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND MANUFACTURERS INSTALLATION DRAWINGS.

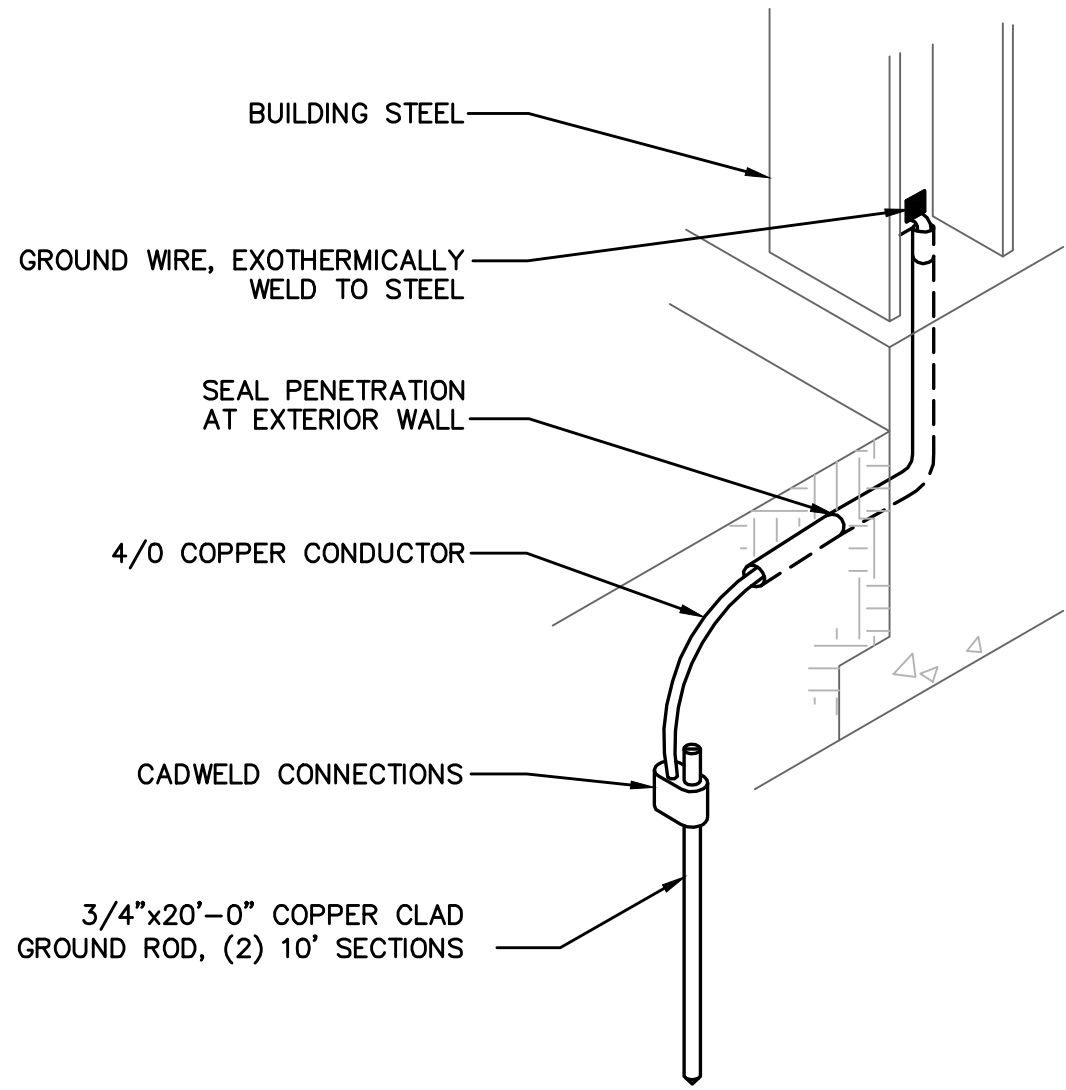


F-E403

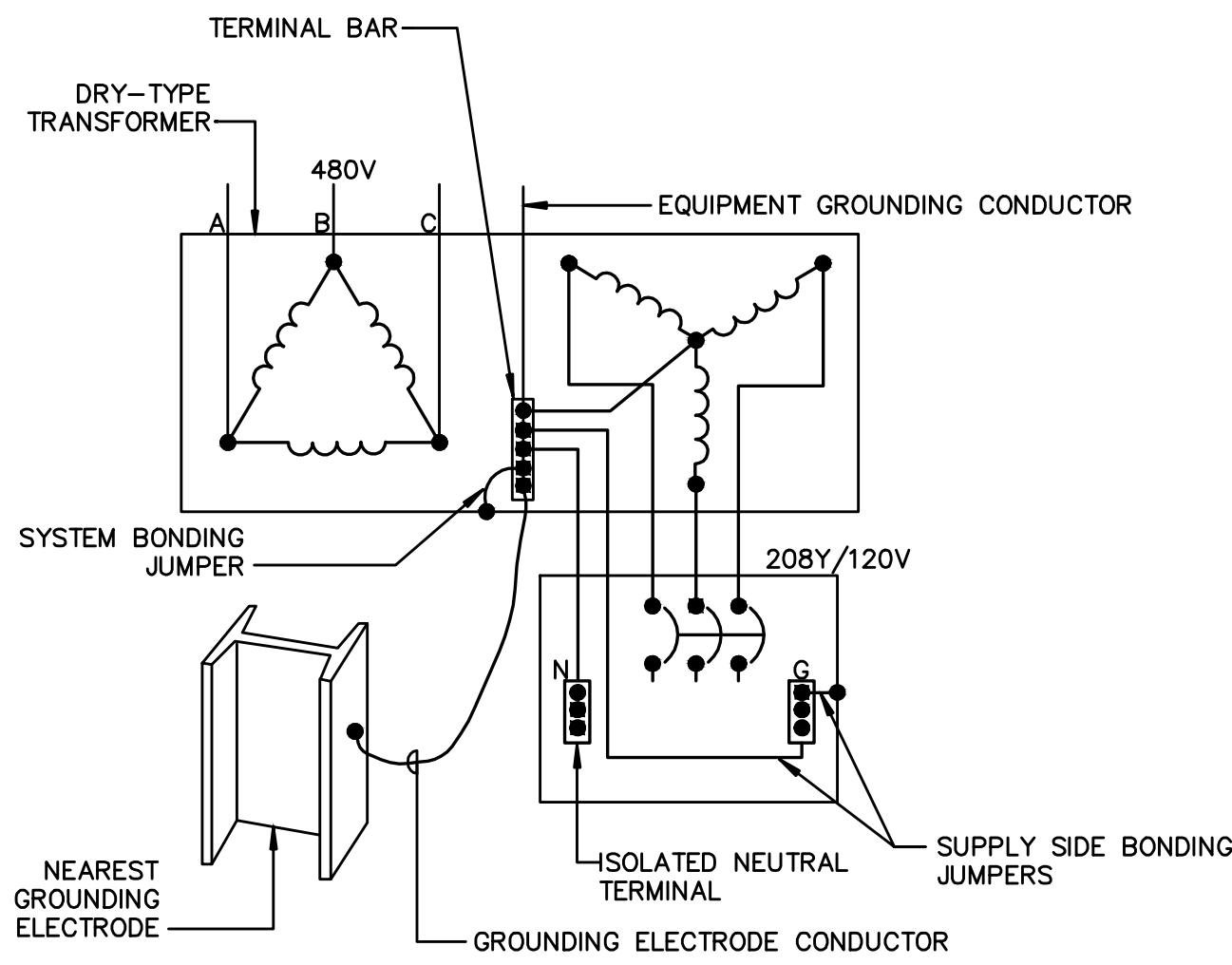




1 COPPER GROUND BAR DETAIL
F-E501 NTS



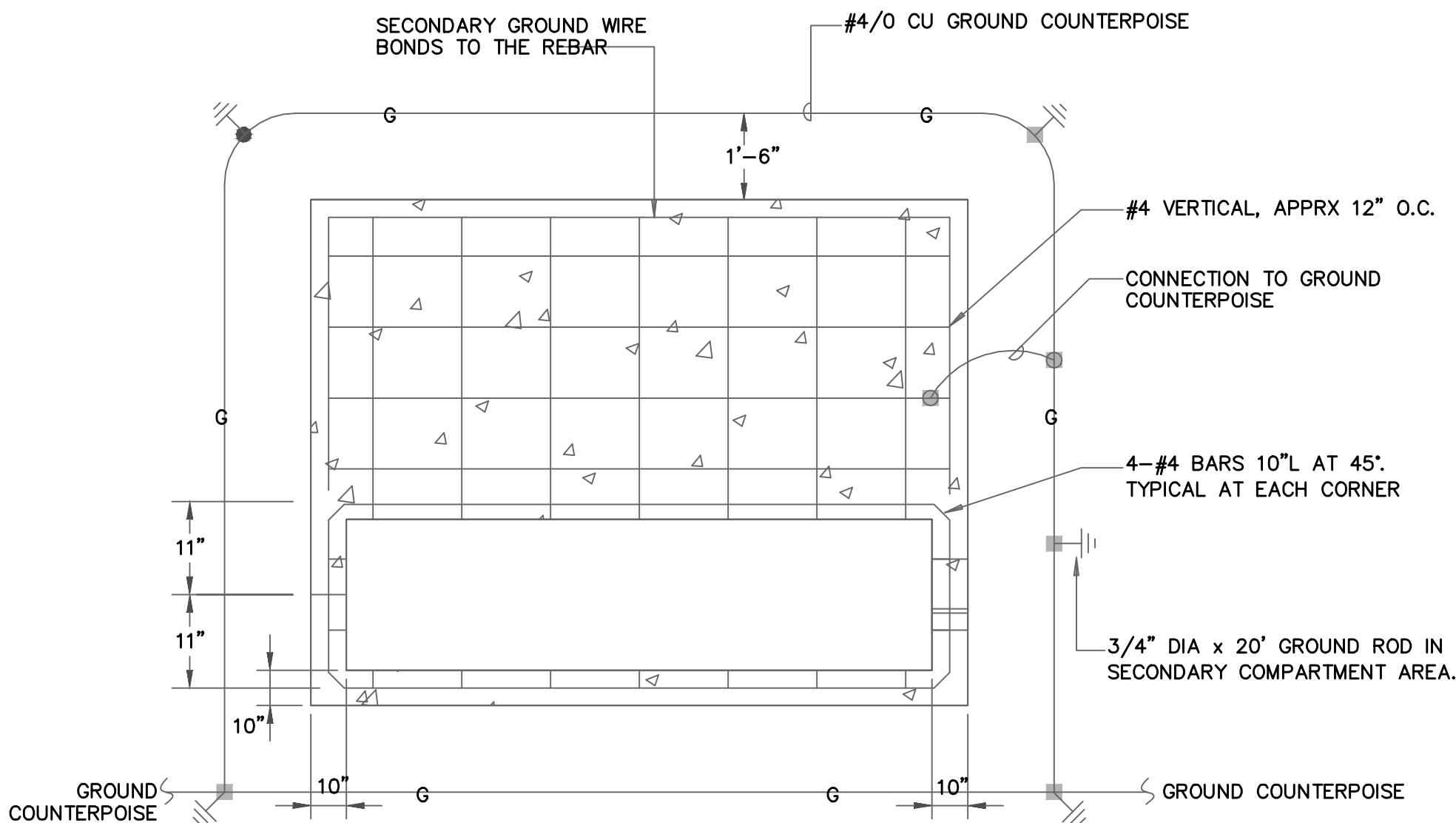
2 BUILDING STEEL CONNECTION TO GROUND
F-E501 NTS



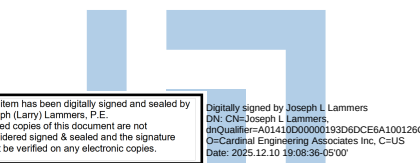
- NOTES: BASED ON 2017 NEC
1. SYSTEM BONDING JUMPER SIZE PER NEC 250.30(A)(1), AND TABLE 250.102(C)(1), PER 250.28(D)(1).
 2. SUPPLY SIDE BONDING JUMPER SIZED PER NEC 250.30(A)(2), 250.102(C) AND TABLE 250.102(C)(1).
 3. GROUNDED CONDUCTOR (NEUTRAL) SIZE TO MATCH PHASE CONDUCTORS SIZE AND MATERIAL.
 4. GROUNDING ELECTRODE CONDUCTOR SIZED PER NEC 250.30(A)(5) AND TABLE 250.66.

3 TRANSFORMER GROUNDING DETAIL
F-E501 NTS

4 NOT USED
F-E501 NTS



5 TYPICAL TRANSFORMER PAD DETAIL
F-E501 NTS



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DOCUMENTS

ISSUE DATE
12.03.2025

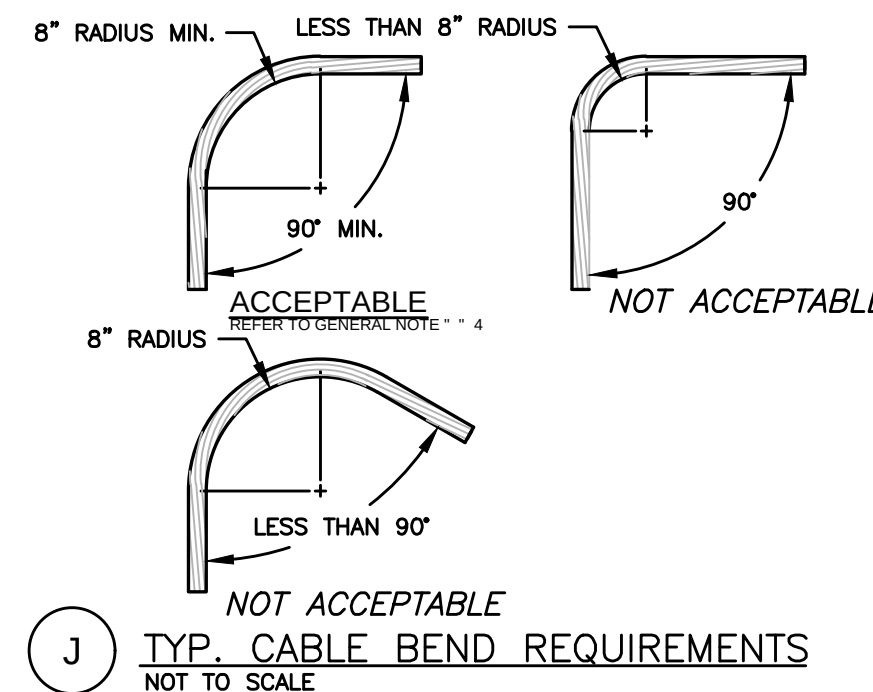
REVISIONS

NO.	REASON	DATE
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PROJECT TEAM
PRINCIPAL IN CHARGE
DAVID LITHGOW
PROJECT MANAGER
DAVID LITHGOW
DESIGN TEAM
CEA

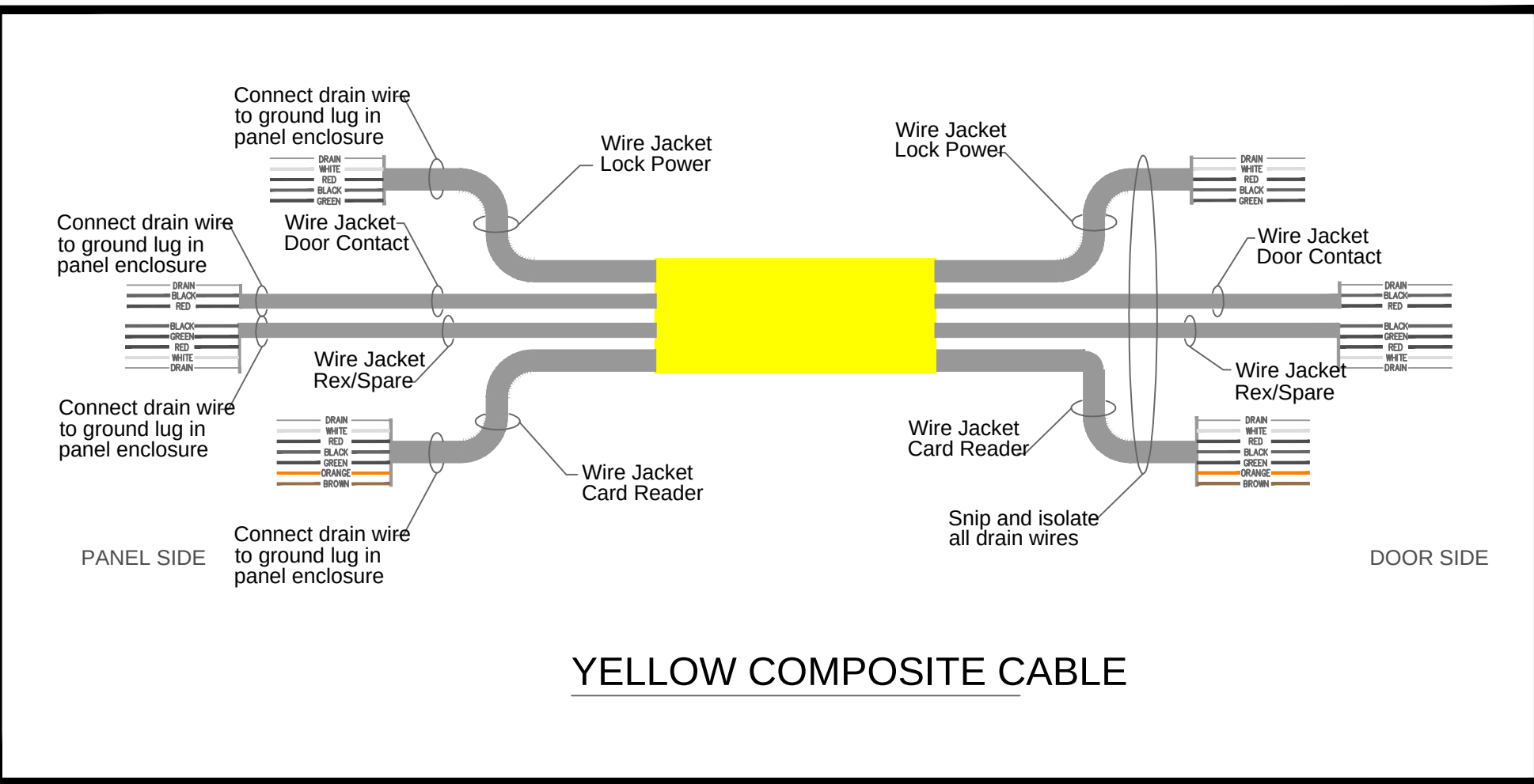
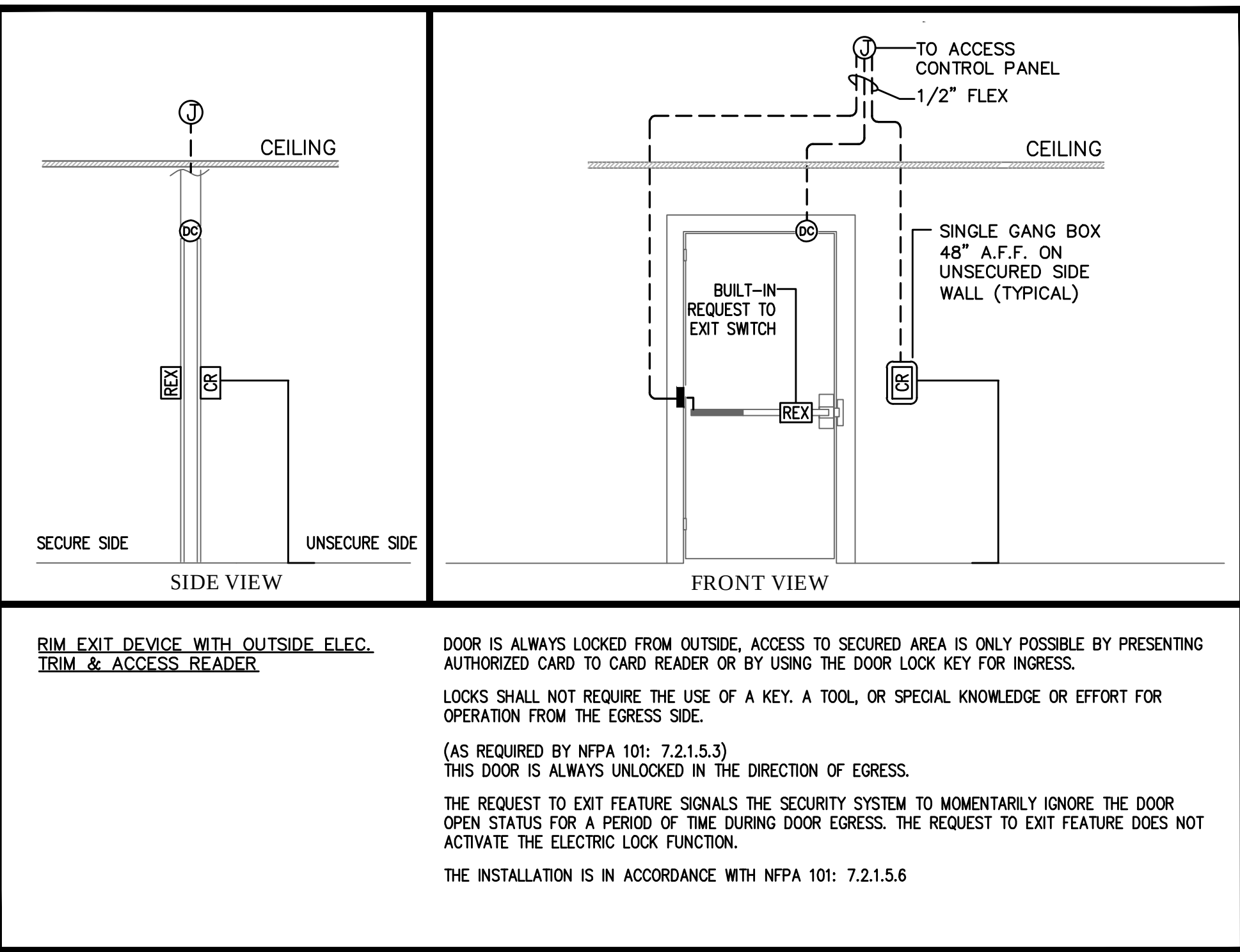
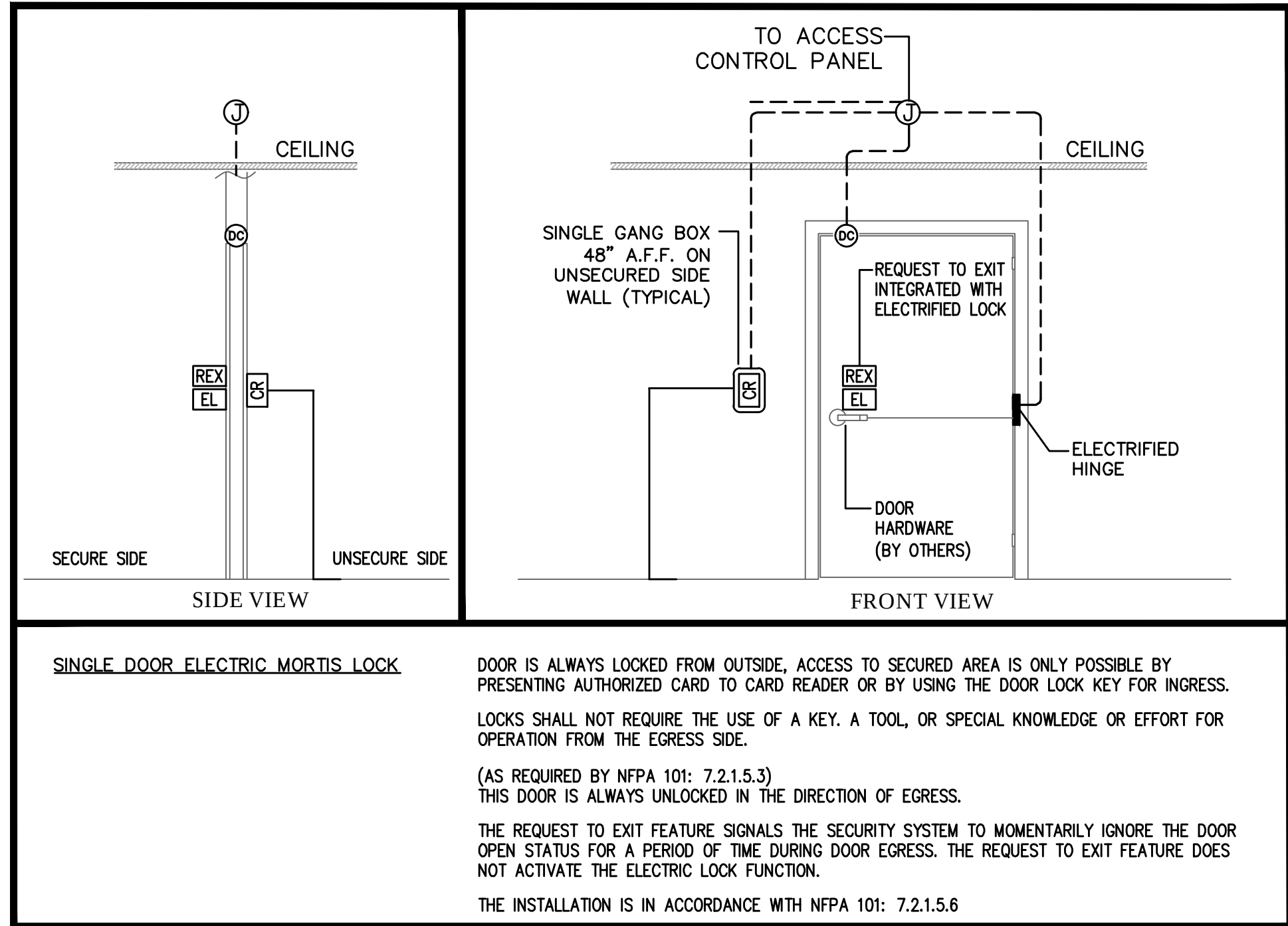
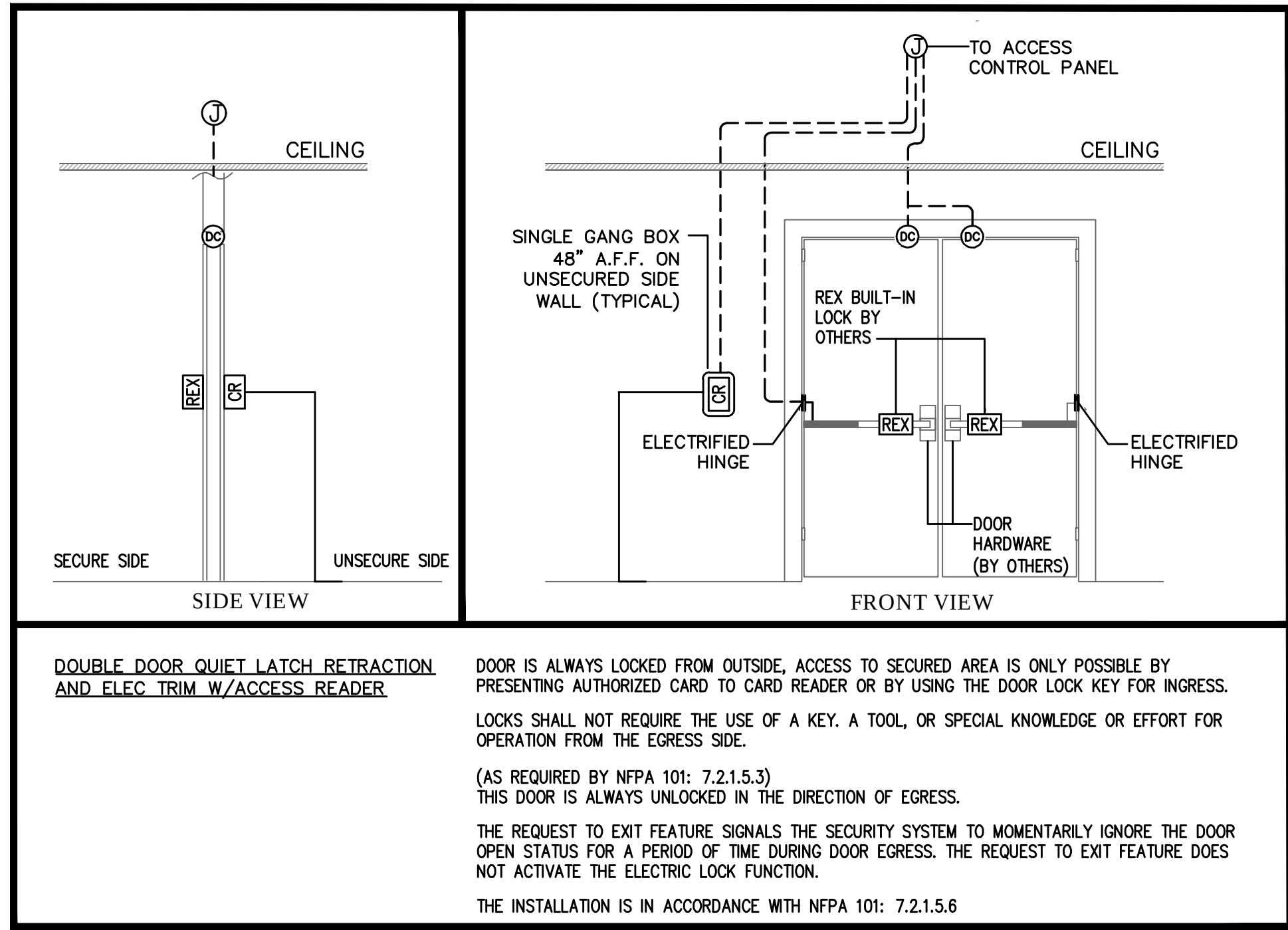
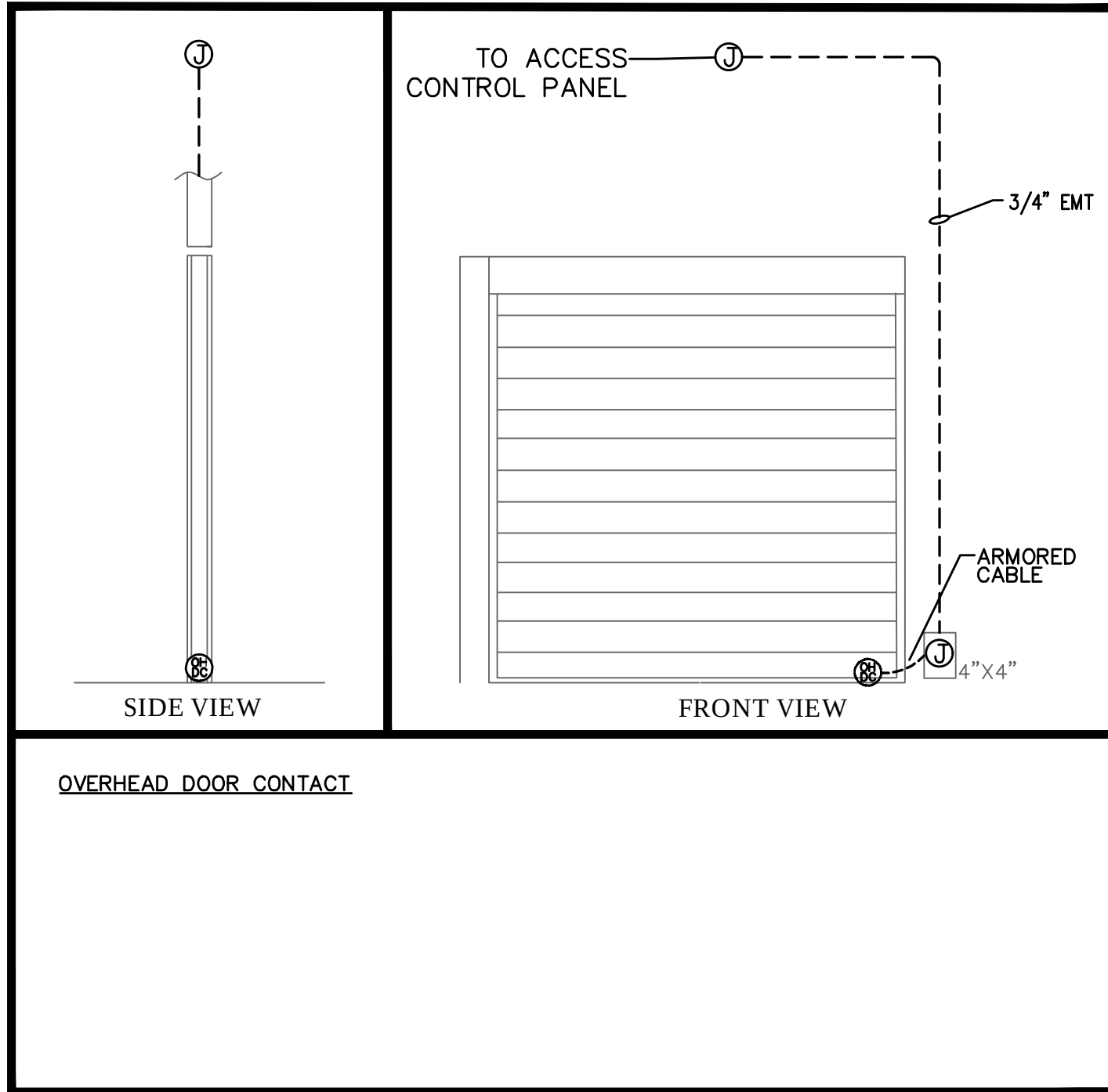
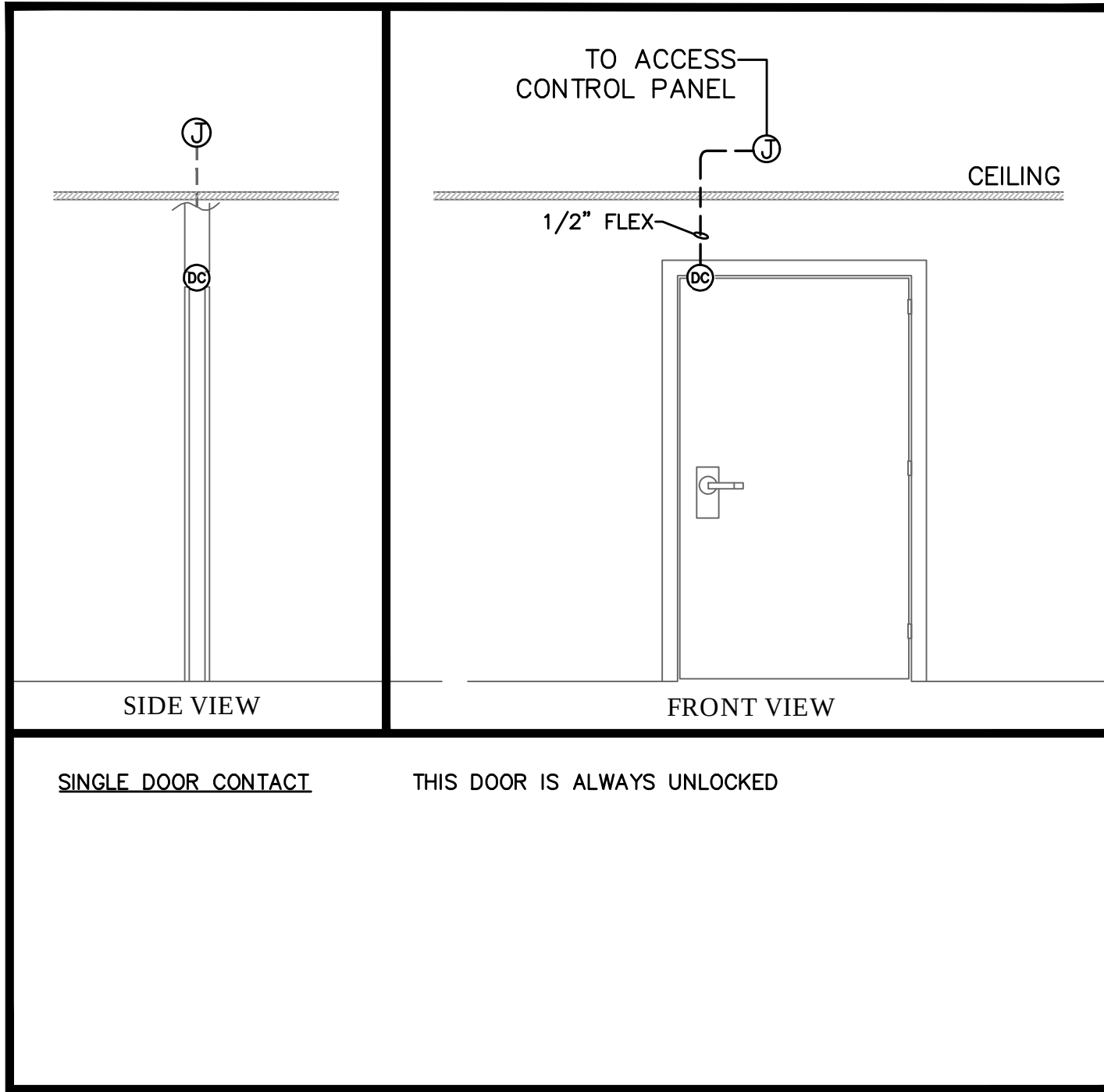
PROJECT NAME
FPL Columbia Storm
Processing Facility Phase 2
1185 NW 25A
LAKE CITY, FL 32055

PROJECT NO.
814.C6328.01
SHEET TITLE
DETAILS



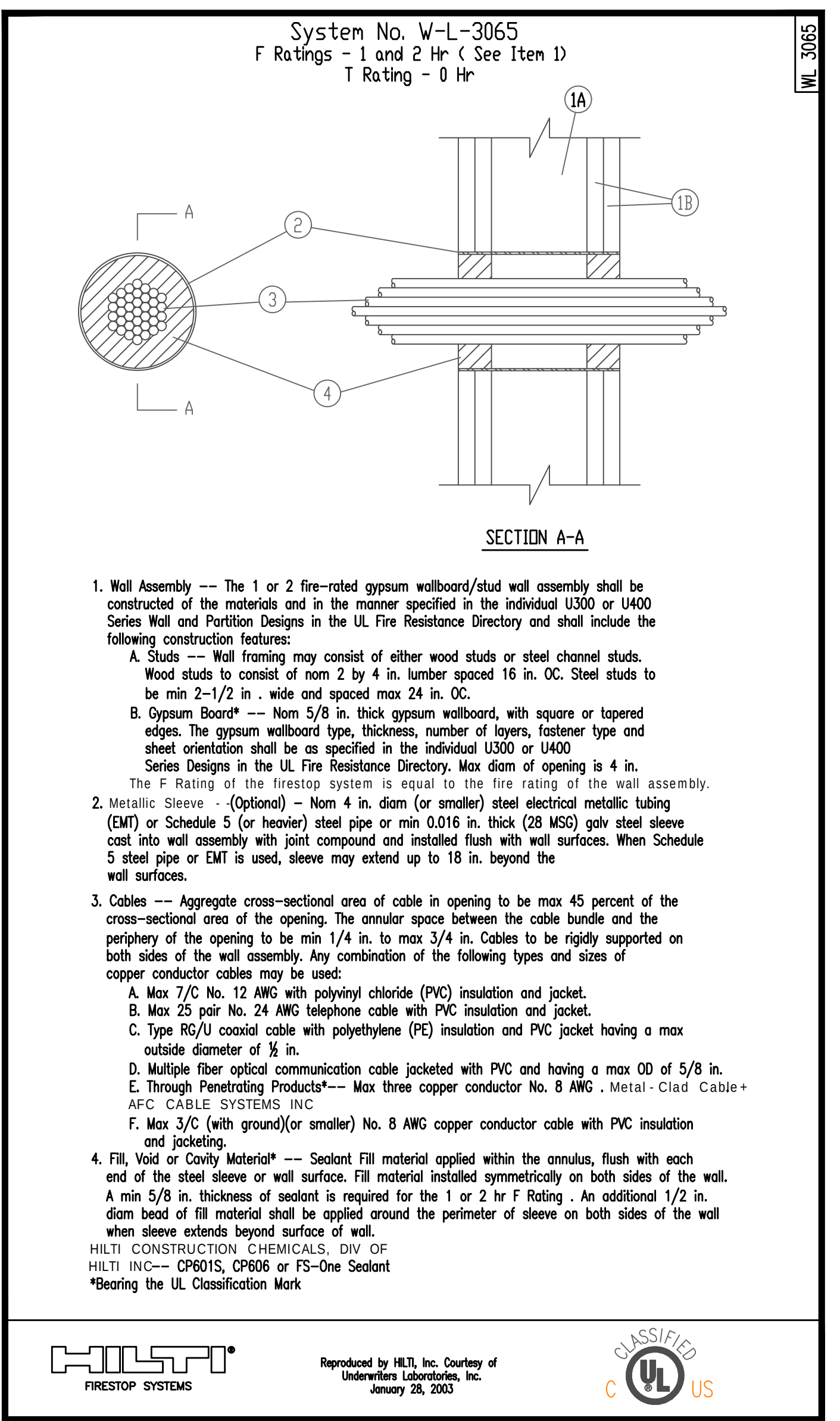
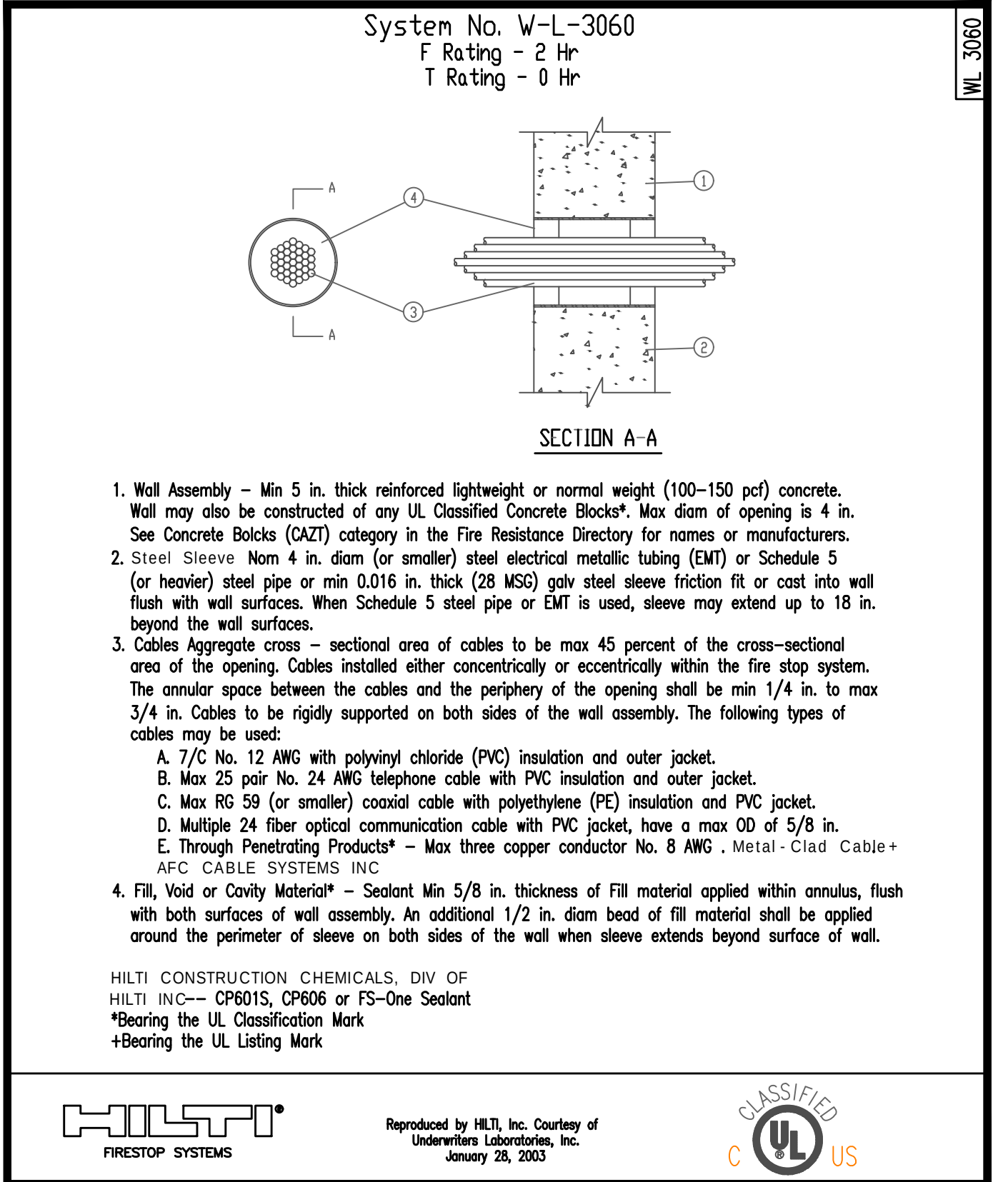
LEGEND	
	AIR TERMINAL LOCATION
	THRU-ROOF LOCATION
	THRU-WALL LOCATION
	GROUND ROD LOCATION
NO. C29 COPPER CABLE (CLASS I), 29 ST., 17 GA., 192 LBS./1,000 FT., 59K CMIL. NO. C29 COPPER CABLE (CLASS I), SAME SPEC'S AS ABOVE, CABLE COURED CONCEALED FROM VIEW SHOWN. NO. A24 ALUMINUM CABLE (CLASS I), 24 ST., 14 GA., 102 LBS./1,000 FT., 98K CMIL.	
	EXHAUST FAN
	MISC. MECHANICAL EQUIPMENT
A.F.F.	ABOVE FLOOR

NO.	DATE:	DESCRIPTION	BY
REVISIONS			
EVALUATION:			
LIGHTNING PROTECTION SYSTEM			
PROJECT: FPL COLUMBIA STORM PROCESSING FACILITY PHASE 2			
FLORIDA			
INSTALLER & DESIGNER: 3ONDED LIGHTNING PROTECTION LIGHTNING PROTECTION SYSTEMS, INC. INSTALLING MEMBER OF THE LIGHTNING PROTECTION INSTITUTE PHONE: 561-746-4336 FAX: 561-747-8233 N. FALKENBURG ROAD SUITE 100 JUPITER, FLORIDA 33458 333 N. FALKENBURG ROAD UNIT D-401 TAMPA, FLORIDA 33619 1505 CAPITAL CIRCLE NW UNIT B TALLAHASSEE, FLORIDA 32303 JOB NO. MANUFACTURER ERST CORST LIGHTNING EQUIPMENT I.E.I. - MEIBER - U.L.P.A. PHONE: 1-800-680-9462 E-MAIL: info@erst.iei.com			
DLN: 25050			
RES			
CHK. BY			
PCD			
DATE:			
30.OCT.25			
SCALE AS SHOWN			
SHEET NO. 1 -OF- 1			



SYSTEMS TO BE INSTALLED WILL COMPLY WITH NFPA 101 2018 SECTION 7.2.1.5.6 (1-6)

- 7.2.1.5.6 DOOR HARDWARE RELEASE OF ELECTRICALLY LOCKED EGRESS DOOR ASSEMBLIES. DOOR ASSEMBLIES IN THE MEANS OF EGRESS SHALL BE PERMITTED TO BE EQUIPPED WITH APPROVED ELECTRICAL LOCKING SYSTEMS RELEASED BY THE OPERATION OF DOOR HARDWARE PROVIDED THAT ALL THE FOLLOWING CONDITIONS ARE MET:
- THE HARDWARE FOR EGRESS-SIDE OCCUPANT RELEASE OF THE ELECTRICAL LOCK IS AFFIXED TO THE DOOR LEAF.
 - THE HARDWARE HAS AN OBVIOUS METHOD OF OPERATION THAT IS READILY OPERATED IN THE DIRECTION OF EGRESS UNDER ALL LIGHTING CONDITIONS.
 - THE HARDWARE IS CAPABLE OF BEING OPERATED WITH ONE HAND IN THE DIRECTION OF EGRESS.
 - OPERATION OF THE HARDWARE DIRECTLY INTERRUPTS THE POWER SUPPLY TO THE ELECTRIC LOCK AND UNLOCKS THE DOOR ASSEMBLY IN THE DIRECTION OF EGRESS.
 - LOSS OF POWER TO THE LISTED RELEASING HARDWARE AUTOMATICALLY ELECTRICALLY UNLOCKS THE DOOR ASSEMBLY IN THE DIRECTION OF EGRESS.
 - HARDWARE FOR NEW INSTALLATIONS IS LISTED IN ACCORDANCE WITH ANSI/UL 294, STANDARD FOR ACCESS CONTROL SYSTEM UNITS.



ACCESS CONTROL DEVICES LEGEND

D **ACP** ACCESS CONTROL PANEL & LOCK POWER SUPPLY

- (1) LNL-X2220
- (2) LNL-1320-S3
- (1) FP0150-B100C4DBNL4RB24M1

E **ACP** ACCESS CONTROL PANEL & LOCK POWER SUPPLY

- (1) LNL-X2220
- (1) LNL-1320-S3
- (2) FP0150-B100C4DBNL4RB24M1
- (1) FP0150-B100C4DBNL4RB2E2M

F **ACP** ACCESS CONTROL PANEL & LOCK POWER SUPPLY

- (1) LNL-X2220
- (1) LNL-1320-S3
- (1) FP0150-B100C4DBNL4RB2E2M

CR CARD READER
HID 920NNPEK2009Y

IT INTERCOM
AXIS I8016-LVE

DC DOOR CONTACT
GRI 4400-A

OH/DC OVERHEAD DOOR CONTACT (OHDC)
GRI 4700-A

REL QUIET LATCH RETRACTION (RX-QEL--9847-E0
& RX-QEL+-9847-NL-OP-110MD) BY OTHERS

EL ELEC. MORTISE LOCK W/ BUILT IN REX
(BEST 45HW-7-DEU-14H-C-RQE) BY OTHERS

PR RIM EXIT DEVICE WITH BUILT IN REX
& ELEC. OUTSIDE TRIM (E996L) BY OTHERS

PTH POWER TRANSFER HINGE (BY OTHERS)

CCTV DEVICES LEGEND

CAK NETWORK CAMERA (P3375-V)

CAK NETWORK CAMERA (P3375-V)

GENERAL NOTES THIS DRAWING:

- DETAILS ON THIS DRAWING ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. THE ACTUAL LAYOUT OF THE EQUIPMENT, DEVICES, AND ROUTING OF CONDUIT(S) SHALL BE PROVIDED BY FP&L'S SECURITY SYSTEM VENDOR.

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ISSUE FOR 100% CONSTRUCTION DOCUMENTS

ISSUE DATE 12.03.2025

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
DAVID LITHGOW

PROJECT MANAGER
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DESIGN TEAM
CEA

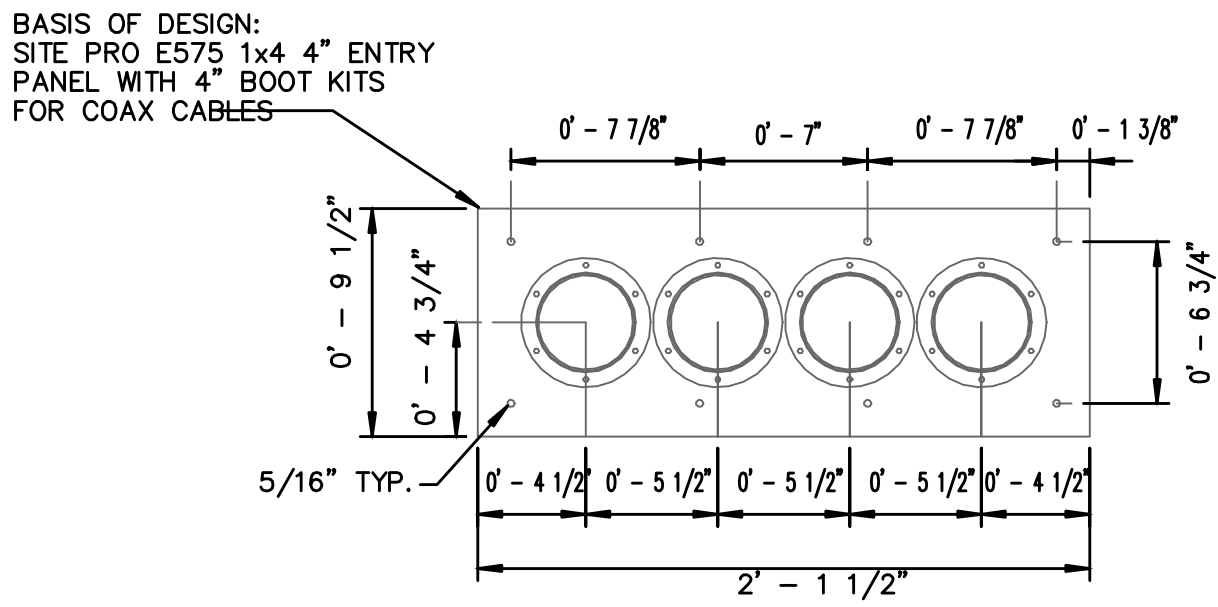
PROJECT NAME
FPL Columbia Storm Processing Facility Phase 2

1185 NW 25A
LAKE CITY, FL 32055

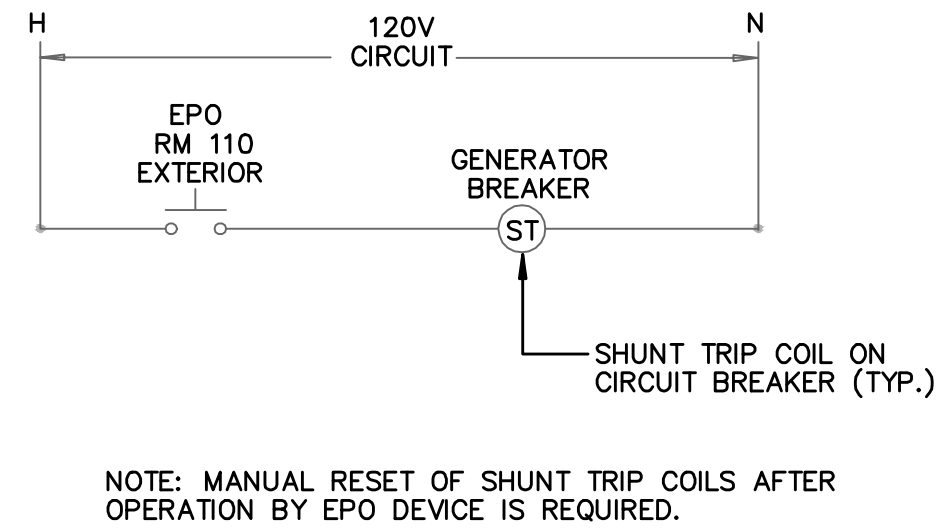
PROJECT NO.
814.C6328.01

SHEET TITLE
DETAILS

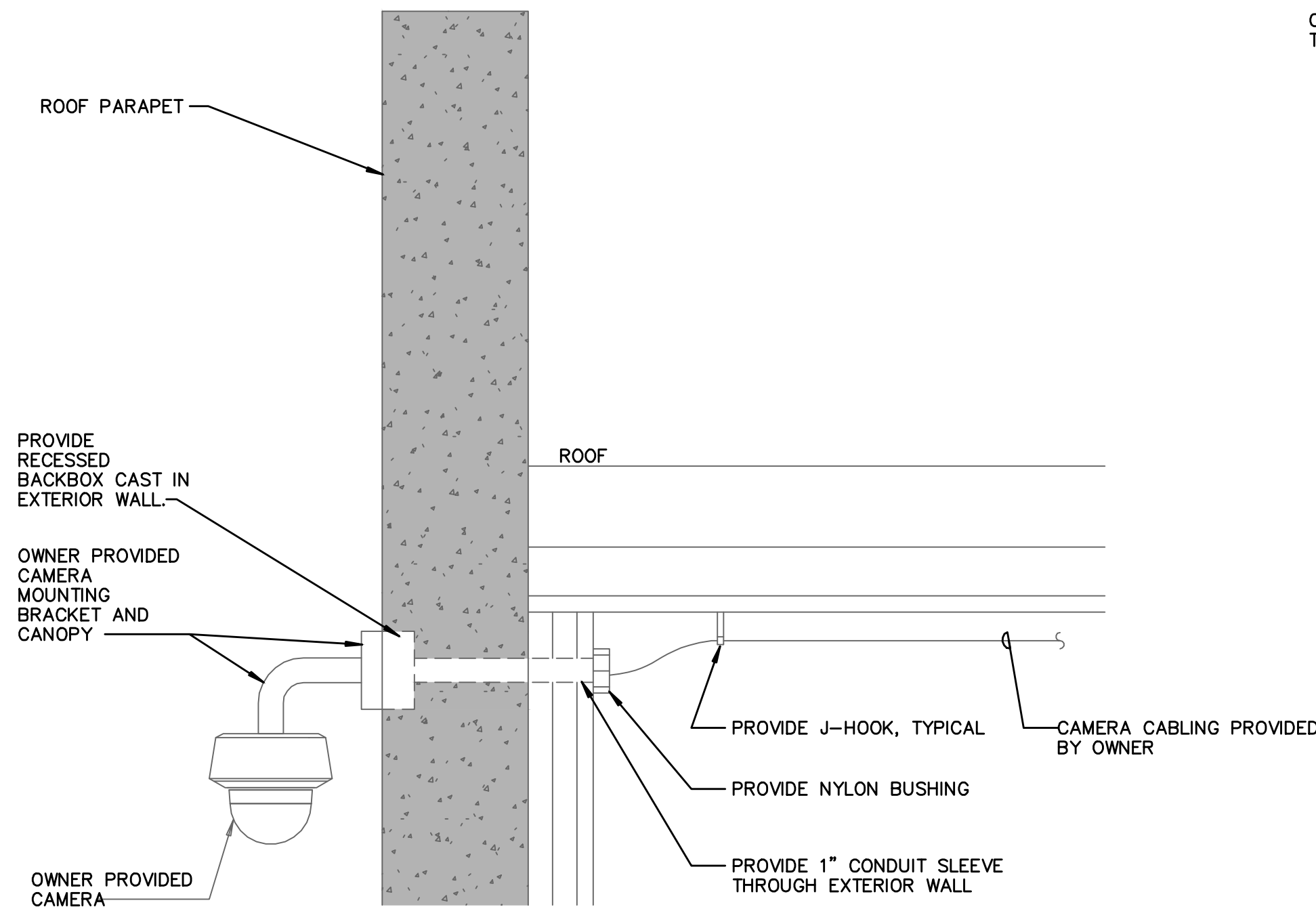
SHEET NUMBER
F-E503



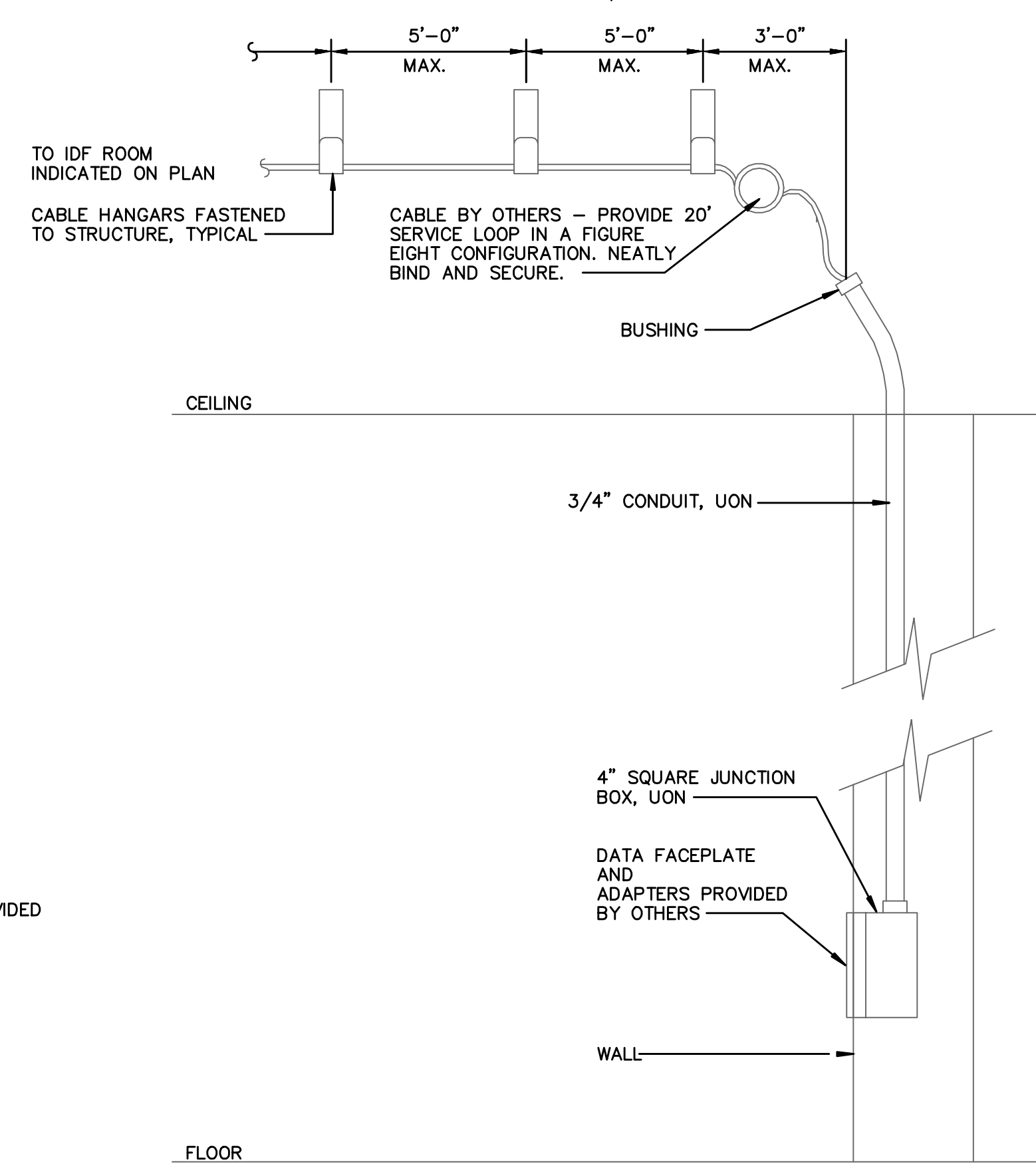
1 ANTENNA SLEEVE DETAIL
F-E504 NTS



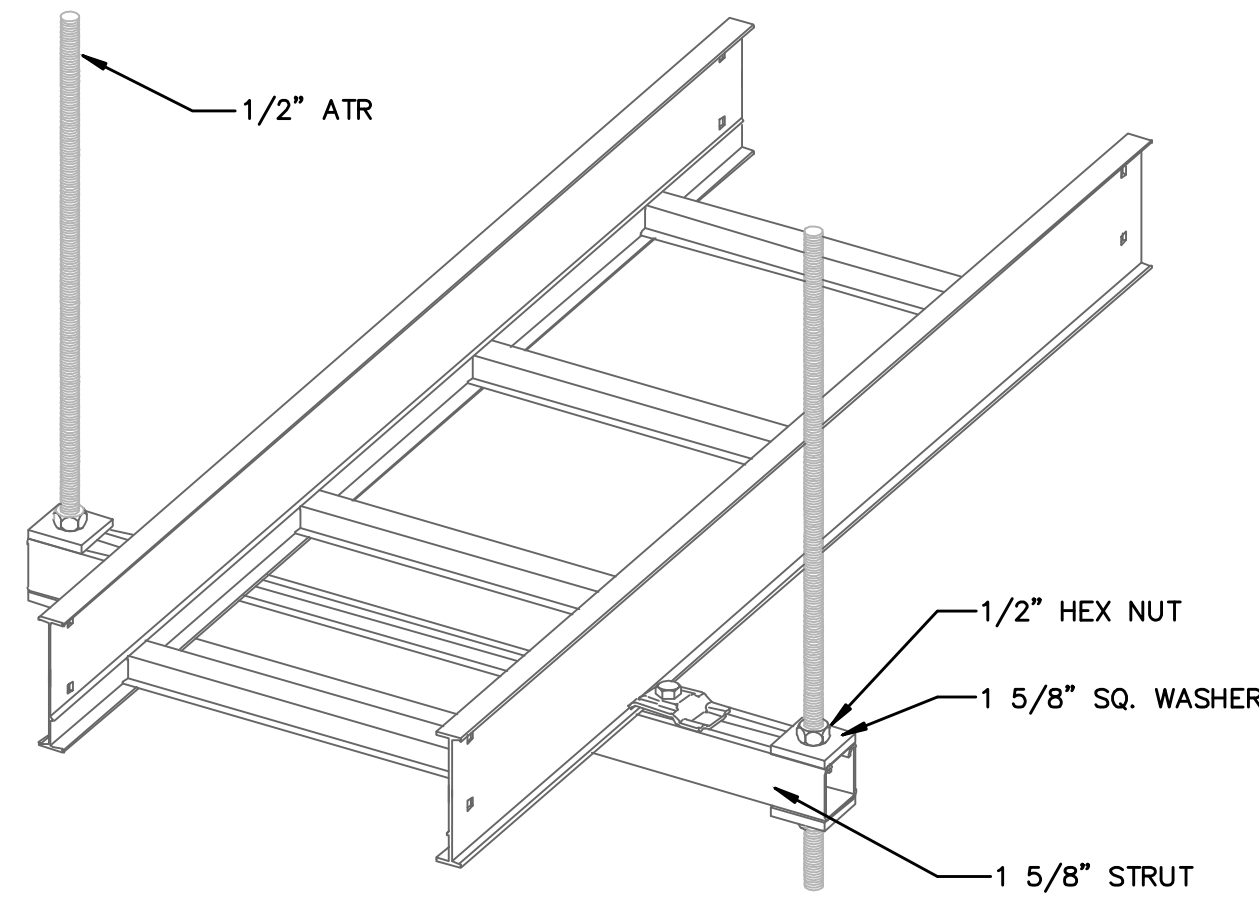
2 EPO SHUNT TRIP WIRING DIAGRAM
F-E504 NTS



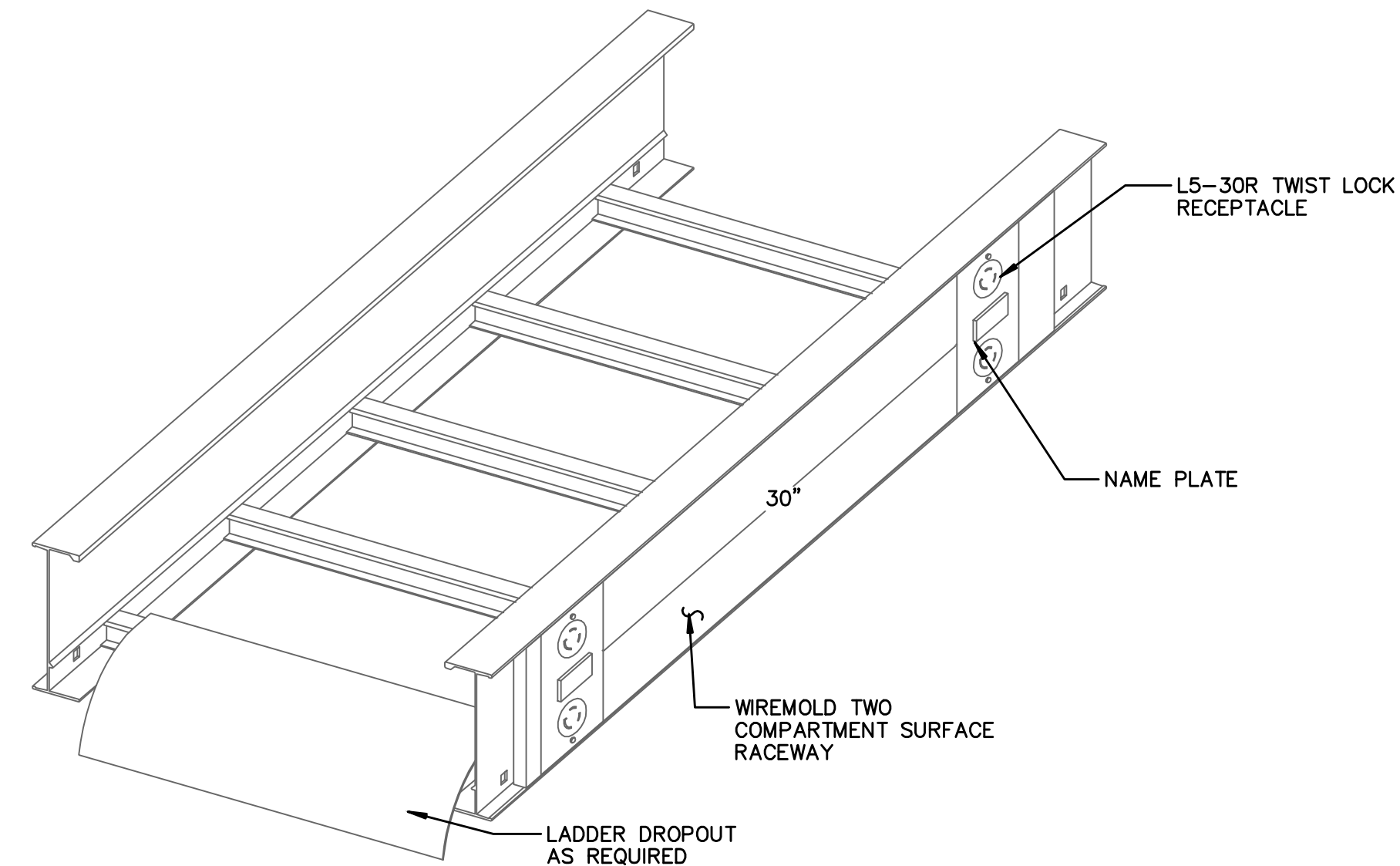
3 EXTERIOR CAMERA MOUNTING DETAIL
F-E504 NTS



4 DATA OUTLET RACEWAY DETAIL
F-E504 NTS



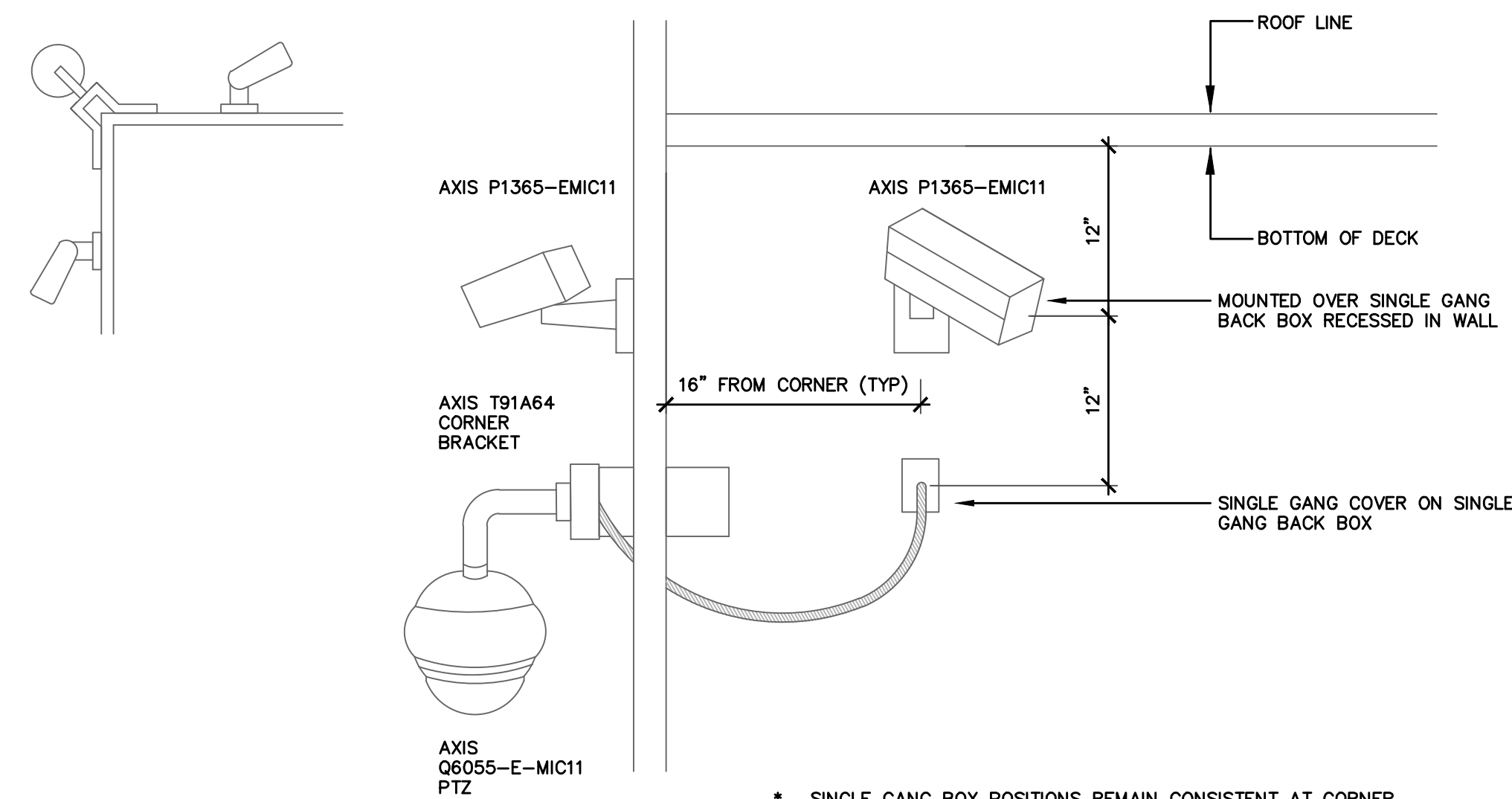
6 SINGLE TRAY TRAPEZE HANGER DETAIL
F-E504 NTS



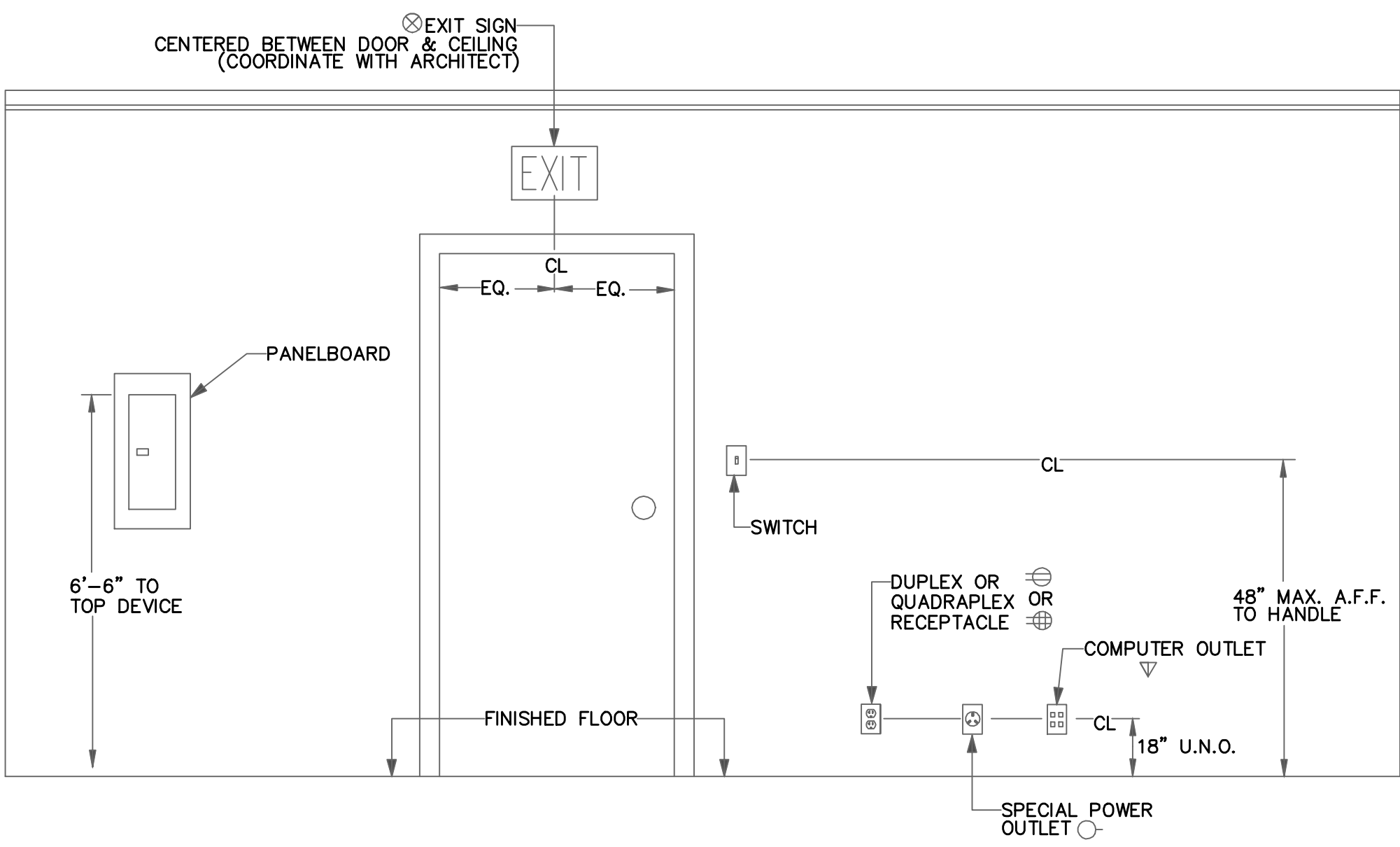
CABLE TRAY RECEPTACLE DETAIL

5 NOT USED
F-E504 NTS

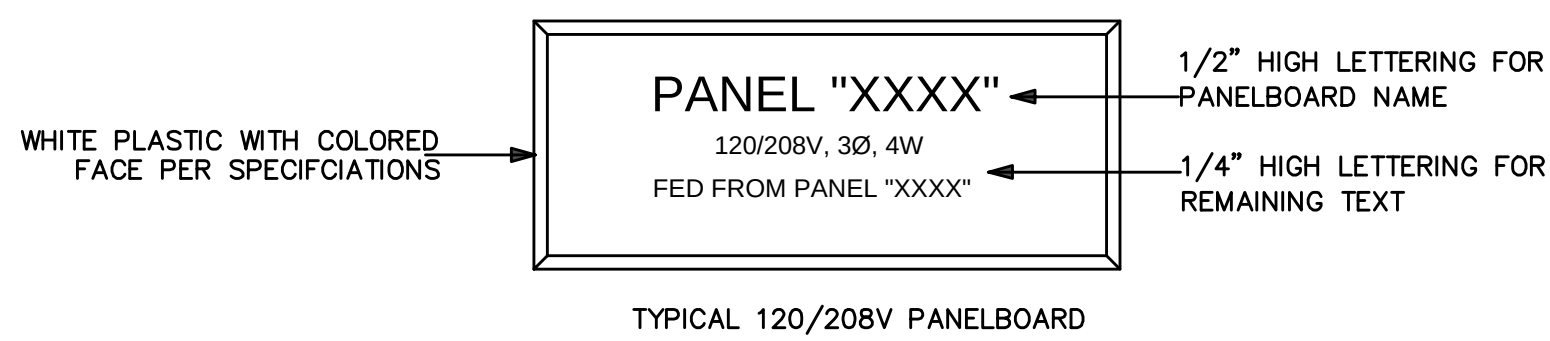
7 CABLE TRAY RECEPTACLE DETAIL
F-E504 NTS



8 EXTERIOR CAMERA MOUNTING
F-E504 NTS

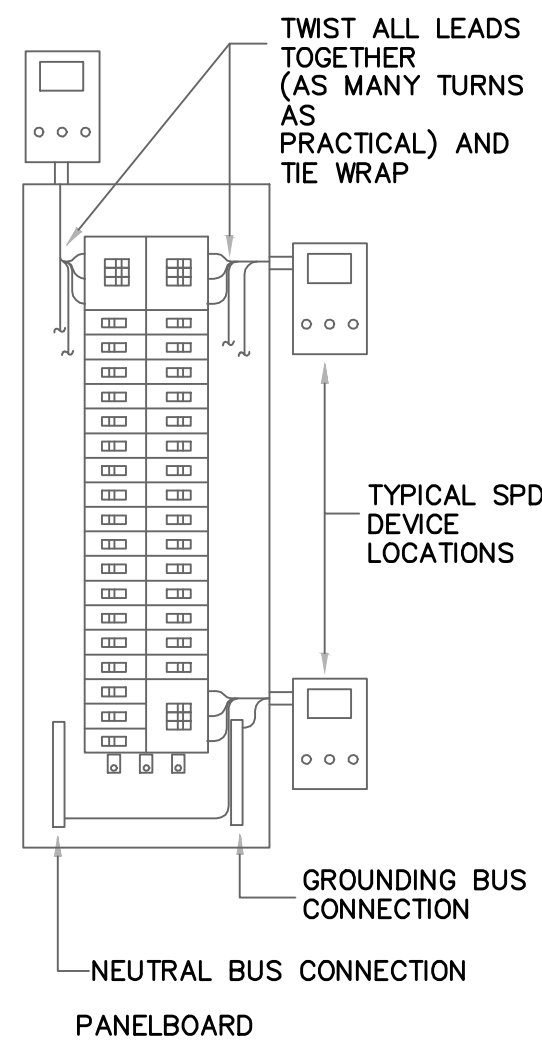


1 TYPICAL SYSTEM OUTLET MOUNTING HEIGHT
F-E505 NTS

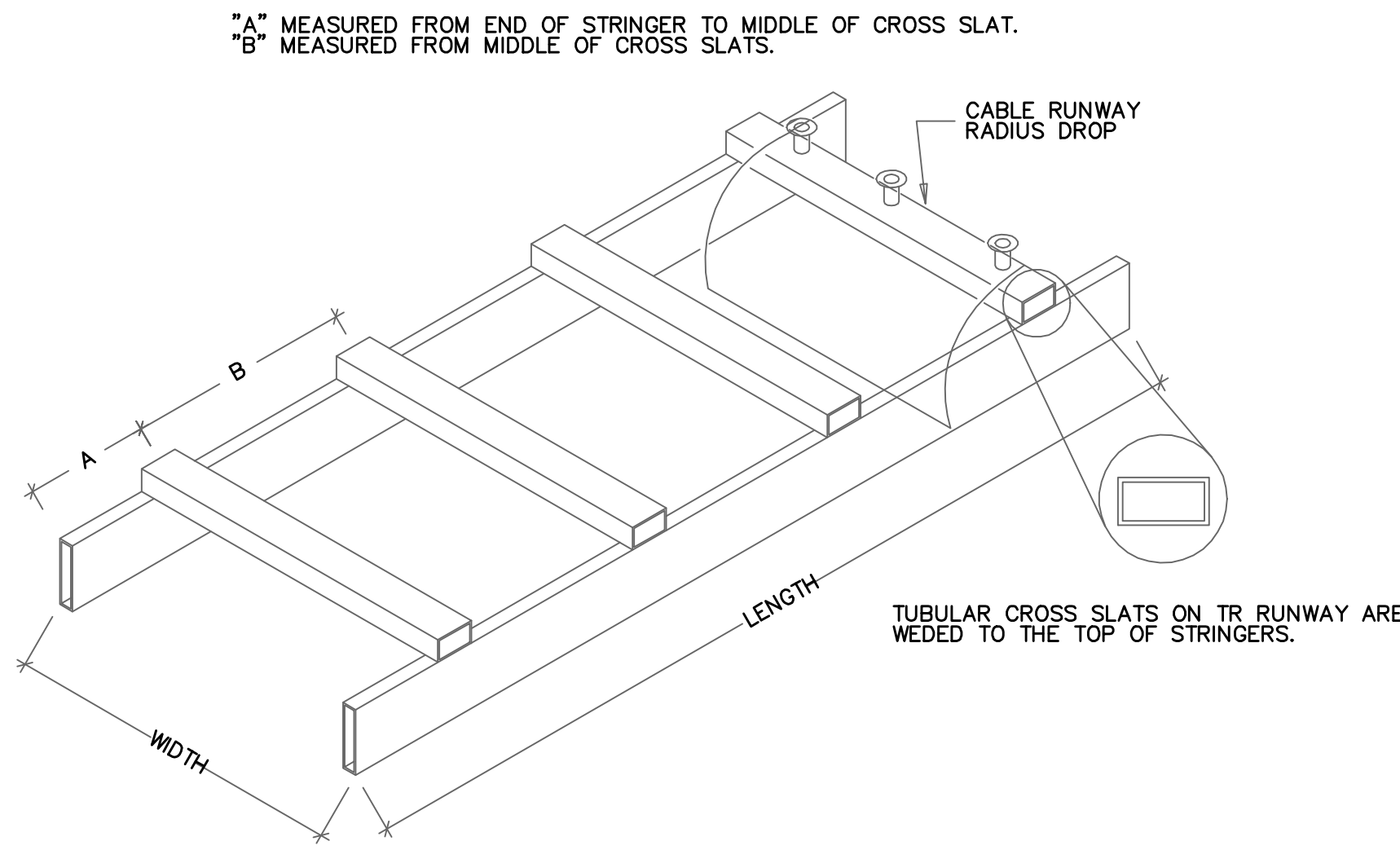


2 PANELBOARD NAMEPLATE
F-E505 NTS

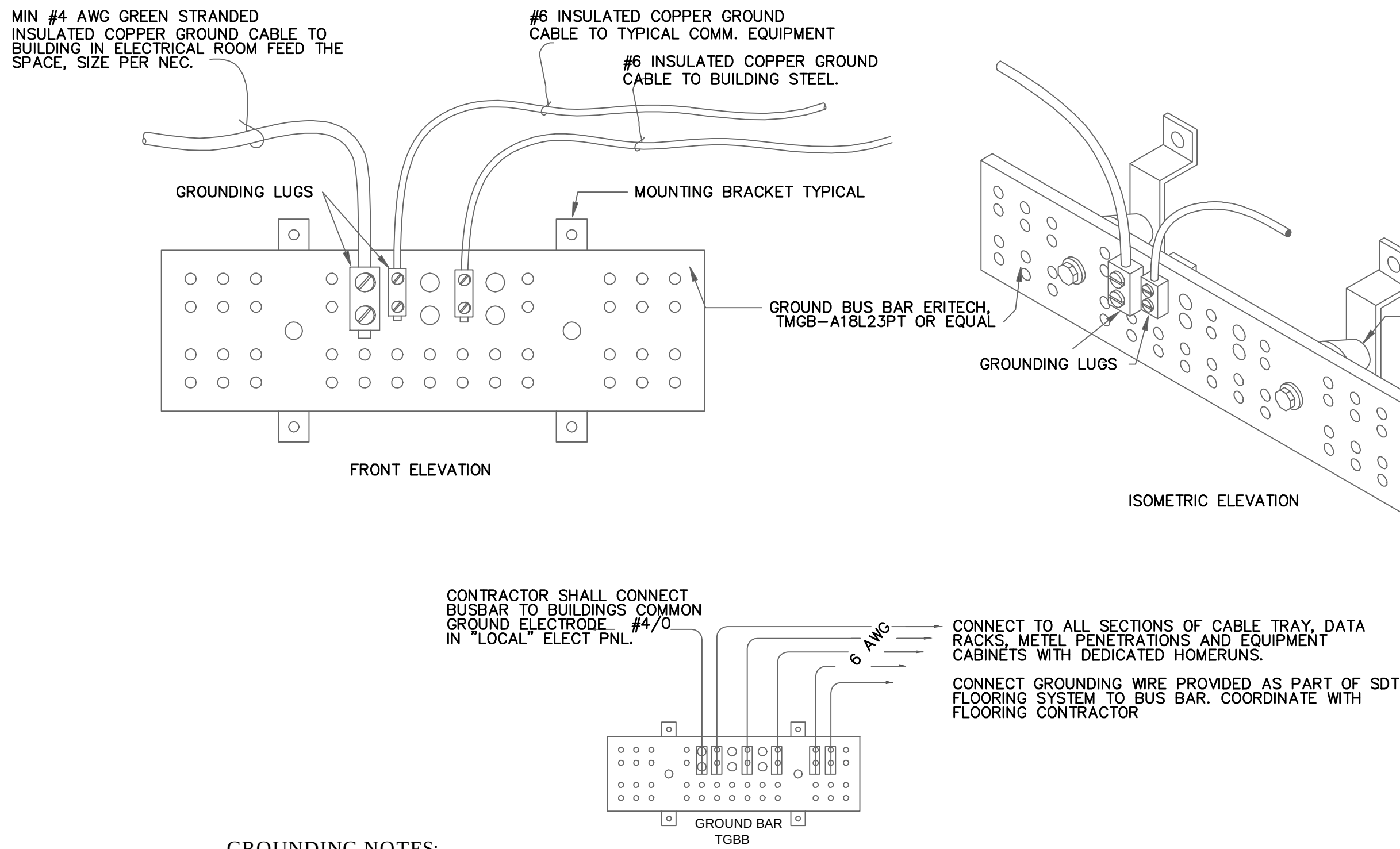
NOTE: MOUNT SPD DEVICE IN A LOCATION TO MAINTAIN LEADS AS SHORT AS POSSIBLE. (24" MAX.)



5 SPD INSTALLATION DETAIL
F-E505 NTS



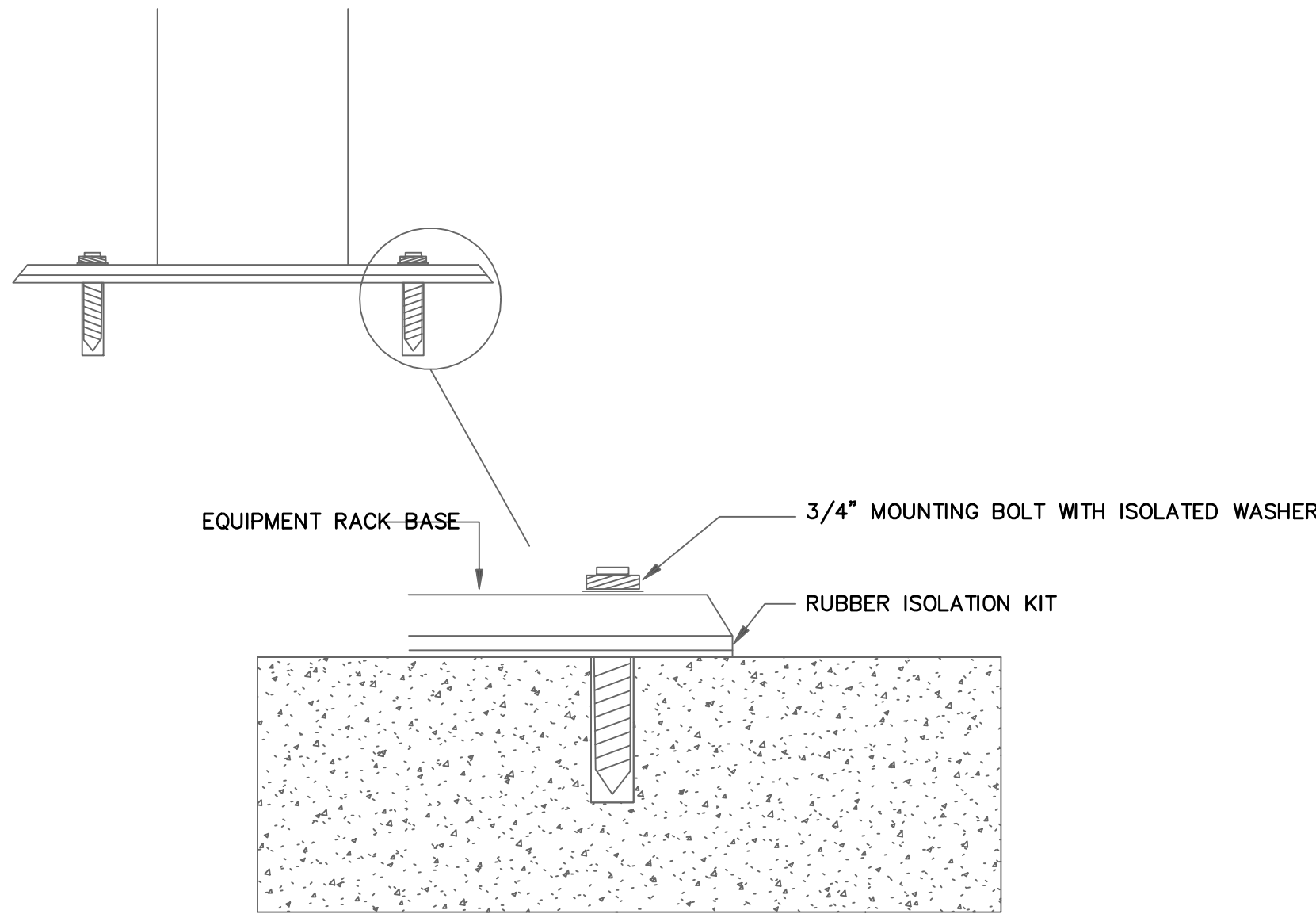
6 LADDER TRAY DETAIL
F-E505 NTS



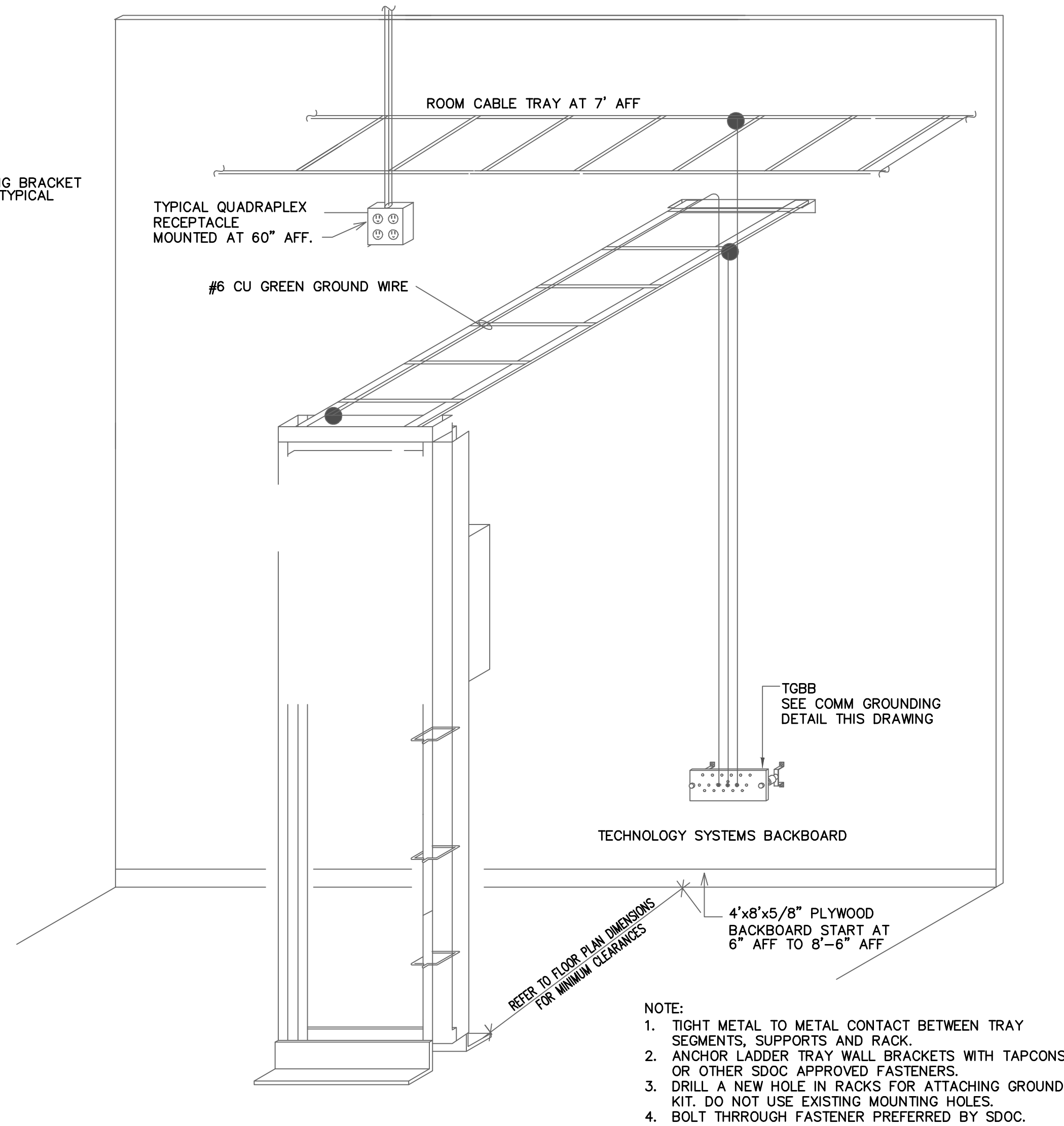
GROUNDING NOTES:

- ALL GROUND CONNECTIONS SHALL BE MADE WITH HEAVY DUTY 2 HOLE COMPRESSION LUGS WITH STAINLESS STEEL HEX HEAD CAP SCREWS WITH SS LOCKING NUTS (TWO SCREWS AND NUTS PER 2 HOLE LUG).
- PROVIDE GROUNDING BUSBARS IN ALL COMMUNICATION CLOSETS AND DATA CENTER. GROUND MAIN BUSBAR TO BUILDING MAIN ELECTRICAL SERVICE GROUND WITH INSULATED (GREEN) COPPER GROUNDING CONDUCTOR (SIZE PER NEC) AND #6 BETWEEN BUSBARS IN THAT PARTICULAR SPACE. RUN CONDUCTOR FROM BUSBAR LOCATION TO BUILDING SERVICE GROUND IN ENT CONDUIT. PROVIDE INSULATED GROUNDING BUSHING MALLEABLE IRON, AT CONDUIT ENDS AND GROUND PER NEC. GROUNDING TO BUILDING STRUCTURE, CONDUITS OR UTILITY PIPING IN LIEU OF BONDING TO BUILDING MAIN ELECTRICAL SERVICE GROUND IS NOT ACCEPTABLE.
- GROUND ALL COMMUNICATION RACK/CABINET WITH #6 AWG INSULATED (GREEN) COPPER GROUNDING CONDUCTOR TO MAIN GROUNDING BUSBAR. GROUND RACKS INDIVIDUALLY TO BUSBAR (DO NOT LOOP GROUNDS). ROUTE CONDUCTOR ALONG RACK REAR AND IN CABLE RUNWAY TO GROUNDING BUSBAR.
- GROUND EACH CONDUIT AND CONDUIT SUPPORTS STRUTS IN ALL COMMUNICATIONS ROOMS WITH #6 AWG INSULATED (GREEN) COPPER GROUNDING CONDUCTOR TO GROUNDING BUSBAR. ROUTE CONDUCTOR IN CABLE RUNWAY TO GROUNDING BUSBAR. ALL CONDUITS SHALL HAVE A BARE EQUIPMENT GROUND WIRE, CONTINUOUS FROM ALL EQUIPMENT CONNECTIONS, AND BONDED AT ALL BOXES, RUN TO THE FEED PANEL, AND SUBSEQUENTLY TO THE BUILDING EQUIPMENT GROUND.
- GROUND CABLE RUNWAY WITH #6 AWG INSULATED (GREEN) COPPER GROUNDING CONDUCTOR TO GROUNDING BUSBAR. ROUTE CONDUCTOR IN CABLE RUNWAY TO GROUNDING BUSBAR.

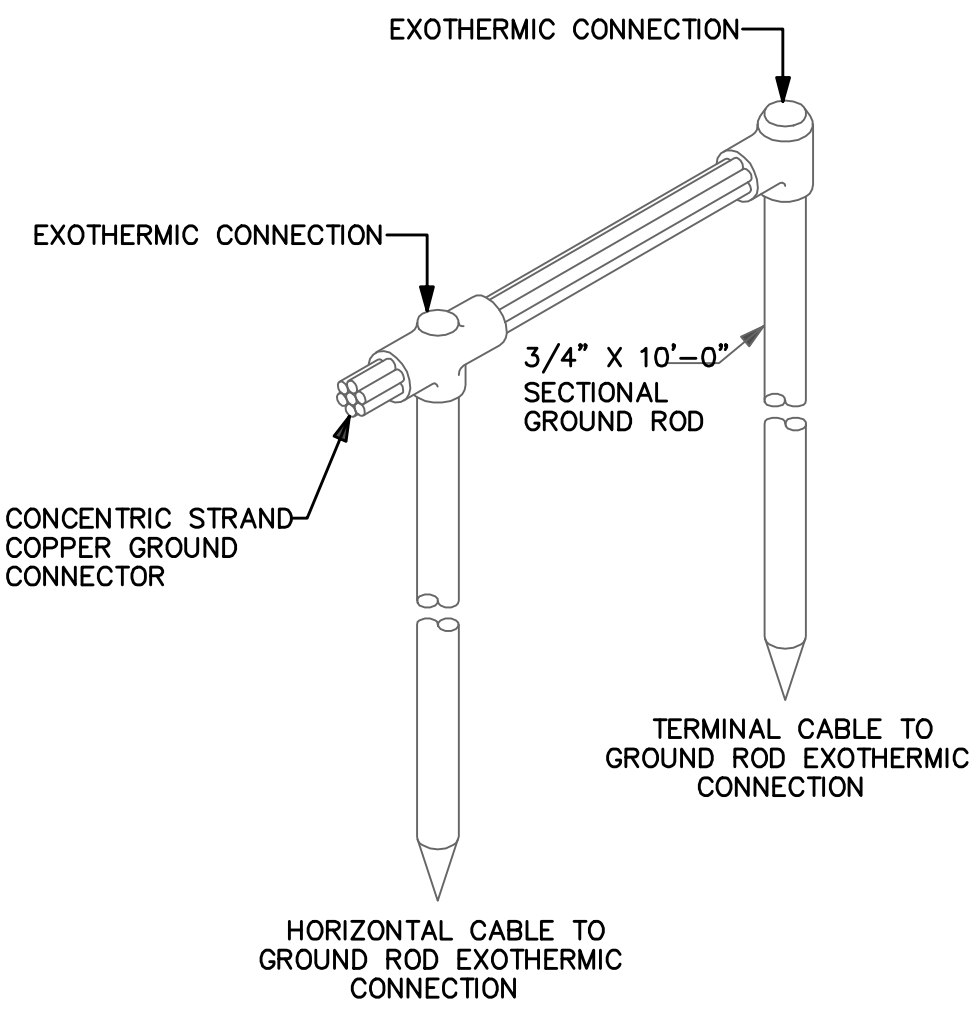
3 COMMUNICATIONS GROUNDING DETAIL
F-E505 NTS



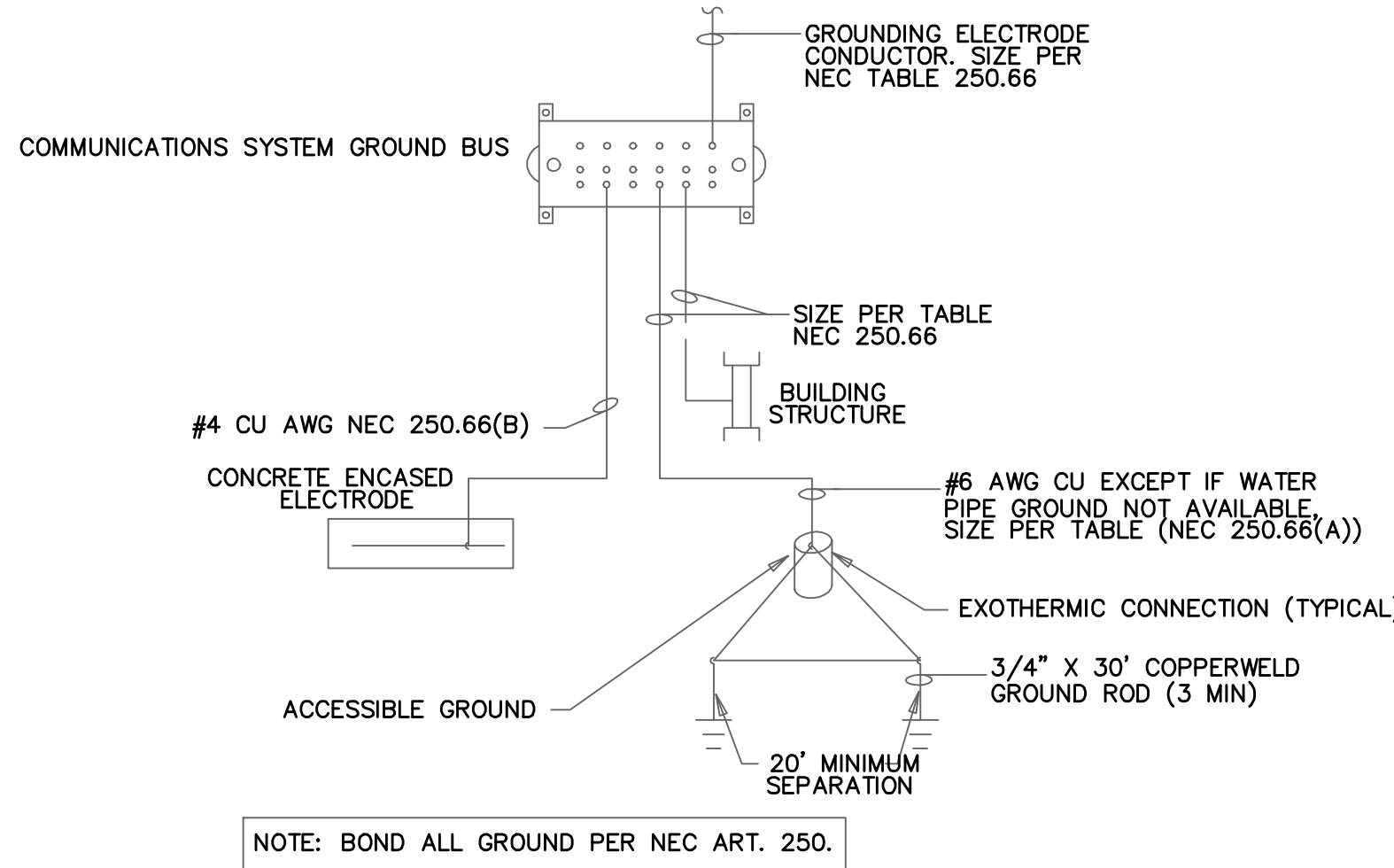
7 RACK FLOOR MOUNTING DETAIL
F-E505 NTS



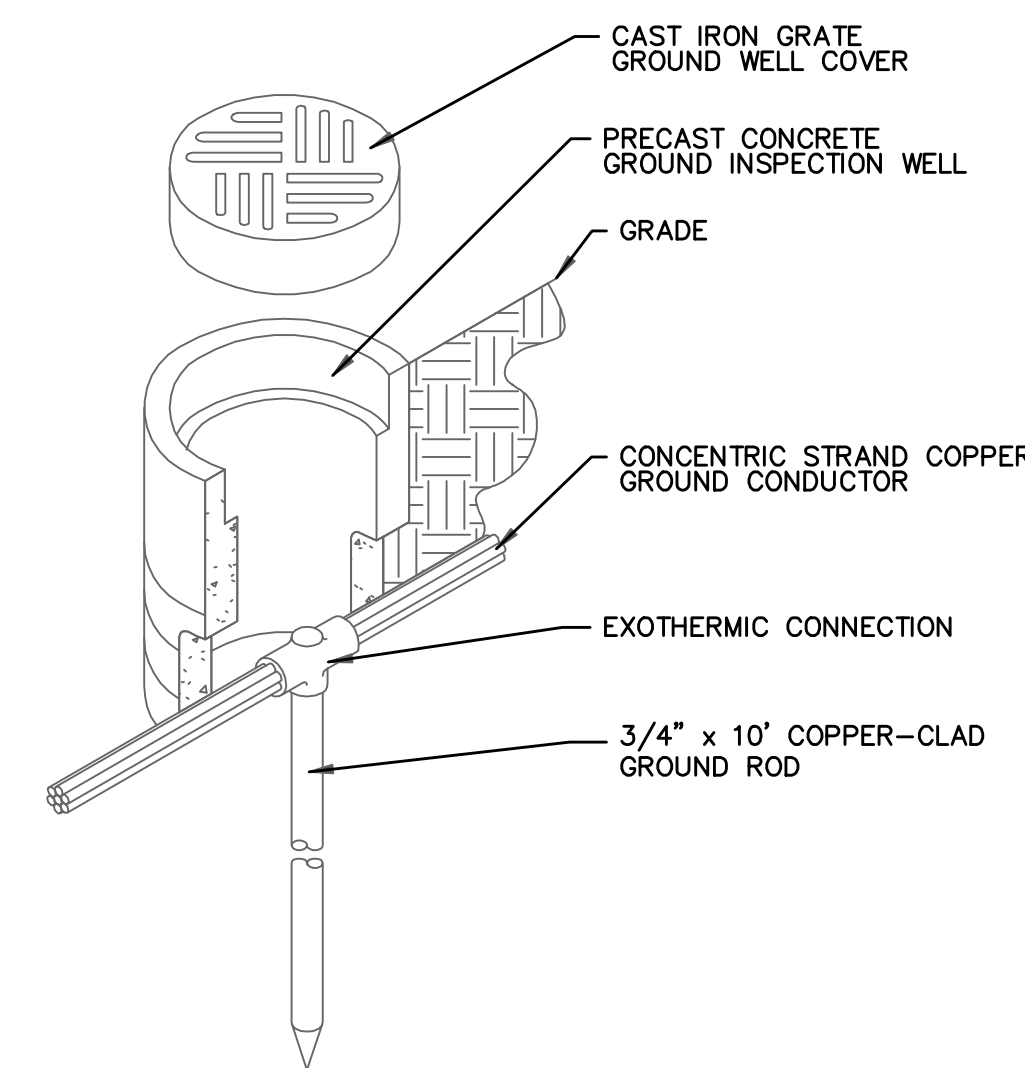
4 TYPICAL TECHNOLOGY 2-RAIL RACK
F-E505 NTS



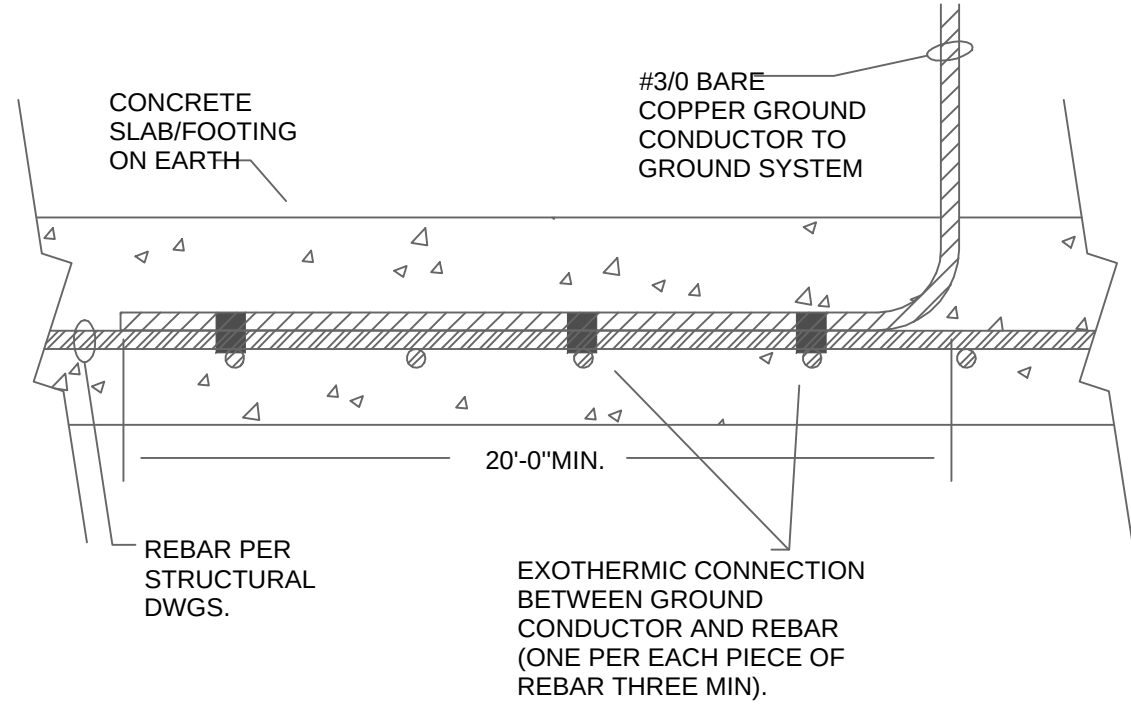
8 TYPICAL DOUBLE GROUND ROD CONNECTION DETAIL
F-E505 NTS



9 SERVICE GROUNDING DETAIL
F-E505 NTS



10 GROUND INSPECTION WELL
F-E505 NTS



11 TYPICAL "UFER" GROUND
F-E505 NTS

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ISSUE FOR

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ISSUE DATE

12.03.2025

REVISIONS

NO.	REASON	DATE

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PROJECT NAME

FPL Columbia Storm Processing Facility Phase 2

1185 NW 25A
LAKE CITY, FL 32055

PROJECT NO.

814.C6328.01

SHEET TITLE

DETAILS

SHEET NUMBER

F-E505

CARDINAL ENGINEERING ASSOCIATES INC. 21-03-34-00 FPL COLUMBIA Wed, 10 Dec 2025 4:35pm

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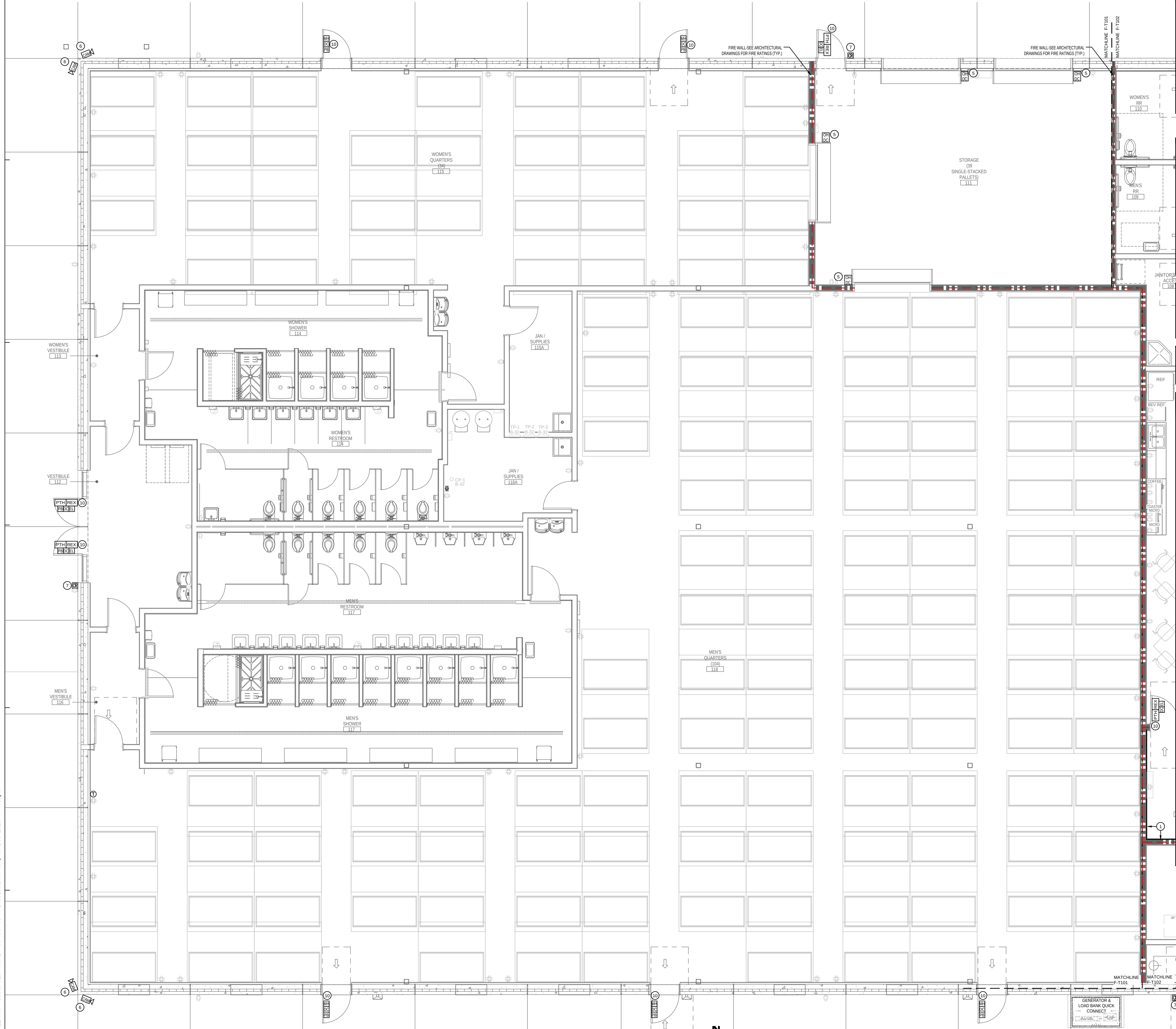
PANELBOARD 'A'		CONNECTED VA		DEMAND VA			
SECTION 1 TOTAL CONNECTED VA	10920	10040	10120	SECTION 1 TOTAL DEMAND VA			
SECTION 2 TOTAL CONNECTED VA	6191	7848	7920	SECTION 2 TOTAL DEMAND VA			
TOTAL CONNECTED VA	17111	17888	18040	TOTAL DEMAND VA			
TOTAL CONNECTED AMPS	143	149	150	TOTAL DEMAND AMPS			

PANELBOARD SCHEDULE 'B'																					
CONNECTED VOLTPANES			LOAD DESCRIPTION	WRES	POLES	AMPS	BUS A/B/C	C %	G	AMPS	POLES	LOAD DESCRIPTION	WRES	AMPS	CONNECTED VOLTPANES						
A#B	B#B	C#B													A#B	B#B	C#B				
1080			MEN'S QUARTERS-QUAD RECEPS	12	1	20	2	20	2	1	STORAGE RM RECEPS	12	720								
	1080		MEN'S QUARTERS-QUAD RECEPS	12	1	20	2	20	2	1	STOR RM-OVERHEAD DR	12		600							
		1080	MEN'S QUARTERS-QUAD RECEPS	12	1	20	5	6	20	2	STOR RM-OVERHEAD DR	12			600						
720			MEN'S QUARTERS-QUAD RECEPS	12	1	20	7	6	20	2	STOR RM-OVERHEAD DR	12	600								
	720		MEN'S QUARTERS-QUAD RECEPS	12	1	20	10	10	20	2	STOR RM-OVERHEAD DR	12		600							
		720	MEN'S QUARTERS-QUAD RECEPS	12	1	20	11	12	20	2	STOR RM-OVERHEAD DR	12			600						
720			MEN'S QUARTERS-QUAD RECEPS	12	1	20	14	14	20	2	STOR RM-OVERHEAD DR	12	600								
	1080		MEN'S QUARTERS-QUAD RECEPS	12	1	20	17	18	20	2	STOR RM-OVERHEAD DR	12		600							
		720	MEN'S QUARTERS-QUAD RECEPS	12	1	20	17	18	20	2	STOR RM-OVERHEAD DR	12			600						
			MEN'S QUARTERS-QUAD RECEPS	12	1	20	10	20	20	1	WOMEN'S QUARTERS-QUAD RECEPS	12	1080								
			MEN'S QUARTERS-QUAD RECEPS	12	1	20	20	20	20	1	WOMEN'S QUARTERS-QUAD RECEPS	12		1080							
		720	MEN'S QUARTERS-QUAD RECEPS	12	1	20	23	24	20	1	WOMEN'S QUARTERS-QUAD RECEPS	12			720						
720			MEN'S QUARTERS-QUAD RECEPS	12	1	20	25	26	20	1	WOMEN'S QUARTERS-QUAD RECEPS	12	720								
	720		MEN'S QUARTERS-QUAD RECEPS	12	1	20	26	26	20	1	WOMEN'S QUARTERS-QUAD RECEPS	12		1080							
		720	MEN'S QUARTERS-QUAD RECEPS	12	1	20	27	28	20	1	WOMEN'S QUARTERS-QUAD RECEPS	12			1080						
600			MEN'S QUARTERS-QUAD RECEPS	12	1	20	31	32	20	1	JAN/SUPPLIES RECEPS/SCP-ITP-1.2.3	12	900								
			MEN'S QUARTERS-QUAD RECEPS	12	1	20	33	34	20	1	WOMEN'S QUARTERS-QUAD RECEPS	12		600							
	500		MEN'S RR-HAND DRIVER	12	2	20	37	38	20	2	WOMEN'S RR-HAND DRIVER	12	500								
500			MEN'S RR-HAND DRIVER	12	2	20	39	40	20	2	WOMEN'S RR-HAND DRIVER	12		500							
	500		MEN'S RR-HAND DRIVER	12	2	20	39	40	20	2	WOMEN'S RR-HAND DRIVER	12			500						
		500	MEN'S RR-HAND DRIVER	12	2	20	41	42	20	2	WOMEN'S RR-HAND DRIVER	12			500						
540			MEN'S WOMEN'S RRVEST RECEPS	12	1	20	43	44	20	1	RR VESTIBULE EWC	12	500								
	360		EXTERIOR RECEPS	12	1	20	45	46	20	1	RR VESTIBULE EWC	12		600							
		720	VESTIBULE EXTERIOR RECEPS	12	1	20	46	47	20	1	RR VESTIBULE EWC	12			600						
1419			LTG-MEN'S QRTS SOUTH	12	1	20	49	50	20	1											
	1061		LTG-MEN'S SHOWER/VEST	12	1	20	51	52	20	1											
		1360	LTG-WOMEN'S QRTS SOUTH	12	1	20	53	54	20	1											
1101			LTG-EXT OWNERS TRAIL PAQ RECEPS	12	1					30	2	SPD	10	0							
	229	500	LTG-MEN'S QRTS STRTS STEPS	12	1	20	57	58	20	1				0							
		500	DRY TYPE SPRINKLER AIR COMPRESSOR	12	1	20	59	60	20	1					0						
TOTAL CONNECTED VA				13740	12130	11540							TOTAL DEMAND VA			5620	5650	4100			
SUB-TOTAL VA				115	101	91							TOTAL DEMAND AMPS								
SUB-TOTAL VA																SUB-TOTAL VA					

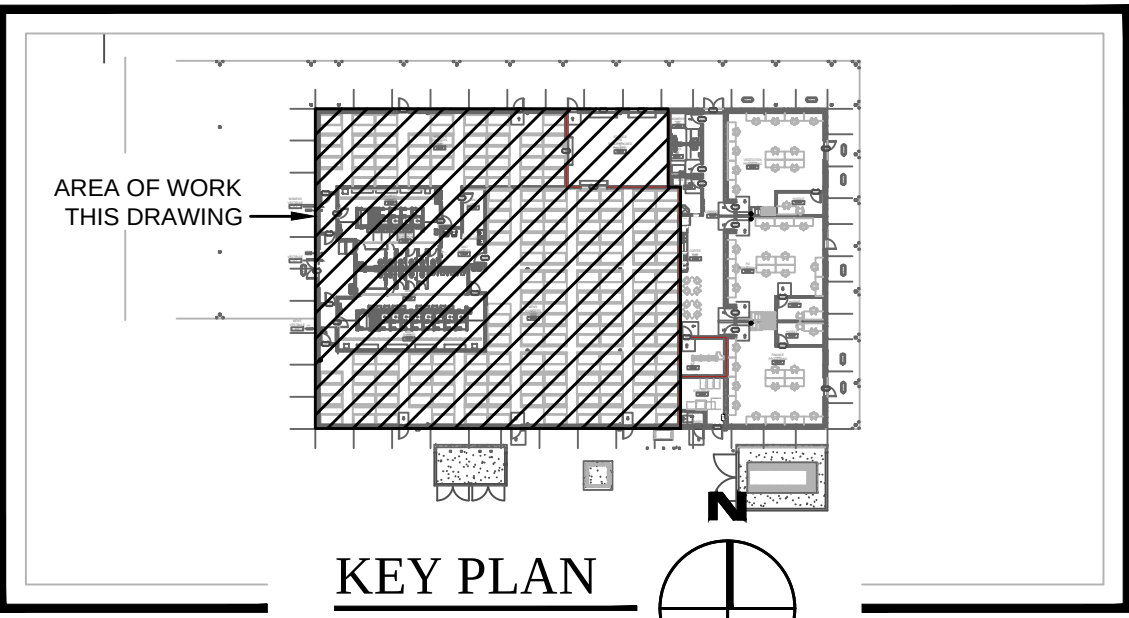
PANELBOARD RATINGS				PANELBOARD FEATURES							
VOLTAGE		BUS AMPS		MAIN DEVICE		ENCLOSURE		BRANCH POLES		BRANCH DEVICES	
☐ 120/208 3Ø-4W	☐ 100A	☐ 400A	☐ 400A	☐ MAIN LUGS ONLY		☐ FLUSH	☐ 12	☐ 36	☐ CIRCUIT BREAKERS		
☐ 120/240 3Ø-4W	☐ 150A	☐ 600A	☐ 600A	☐ _____ CIRCUIT BREAKER		☐ SURFACE	☐ 18	☐ 42	☐ _____ TO BE GFCI BREAKERS		
☐ 277/480 3Ø-4W	☐ 225A	☐ _____A	☐ _____A	☐ _____ A FUSED SWITCH		☐ NEMA 1	☐ 24	☐ 60	☐ LOAD CENTER PERMITTED		
☐ INTERRUPTING RATING (ACS: %S)				☐ SERVICE ENTRANCE RATING		☐ HINGED DOOR	NOTES				
☐ 10.000A	☐ 30.000A	☐ 65.000A		☐ NEUTRAL BUS	☐ BUS MATERIAL	☐ KEYPAD LATCH	☐ 1				
☐ 14.000A	☐ 42.000A	☐ 100.000A		☐ 50% ☐ 200%	☐ COPPER	☐ DOOR-IN-DOOR	☐ 2				
☐ 22.000A	☐ 50.000A	☐ _____000A		☐ 100% ☐ _____%	☐ ALUMINUM	☐ STAINLESS STEEL	☐ 3				
☐ SERIES RATING PERMITTED				☐ GROUND BUS REQUIRED		☐ PAINTED STEEL	☐ 4				
☐ _____ PANELS IN PARALLEL				☐ THROUGH FEED LUGS REQUIRED		☐ NAMEPLATE	☐ 5				

PANELBOARD SCHEDULE 'DP'																
CONNECTED VOLTAMPS			LOAD DESCRIPTION	WIRE AWG	POLES	AMPS	BUS A B C	1 2 3	AMPS	POLES	LOAD DESCRIPTION	WIRE AWG	CONNECTED VOLTAMPS			
A#	B#	C#											A#	B#	C#	
2132			RTU-1	10	3	30	1	2	80	3	RTU-2	6	6396			
	2132						2	3						6396		
							3	1								
2132			RTU-3	10	3	30	2	8	60	3	RTU-4	6	6396			
	2132						3	1						6396		
		2132					4	1							6396	
							5	1							6396	
20000			EW#1 (60KW)	400	3	225	13	14	60	3	RTU-5	6	6396			
	20000						14	1						6396		
		20000					15	1							6396	
20000			EW#2 (60KW)	400	3	225	10	20	60	3	RTU-6	6	6396			
	20000						20	1						6396		
		20000					21	1							6396	
1392			EF-1 EF-2	12	1	20	25	26	200	3	PANEL 'A'	30	17111			
	696		EF-3	12	1	20	22	28						17888	18040	
		1915	AHU-01/HP-01	10	2	25	33	30	200	3	PANEL 'B'	30	13740			
1915							31	31								
	1915		AHU-02/HP-02	10	2	25	33	32						12130	11540	
		1915					34	33								
							35	34								
							36	35								
							37	36								
							38	37								
							39	38								
							40	39								
							41	40	20		ROOF RECEP - N & S EAST	12		360		
							42									
							43	41								
							44	42								
							45	43								
							46	44								
							47	45								
							48	46								
							49	47								
							50	48								
							51	49								
							52	50								
							53	51								
							54	52								
							55	53	30	3	SPD					
							56	54				10	0		0	
							57	55						0	0	
							58	56								
							59	57								
							60	58								
47571	46875	48454	TOTAL CONNECTED VA			104006	102477	103879	TOTAL DEMAND VA			56435	55602	55524	0	
SUB-TOTAL VA			TOTAL CONNECTED AMPS			867	854	866	TOTAL DEMAND AMPS			SUB-TOTAL VA				

PANELBOARD RATINGS				PANELBOARD FEATURES							
VOLTAGE		BUS AMPS		MAIN DEVICE		ENCLOSURE		BRANCH POLES		BRANCH DEVICES	
☐ 120/208 3Ø 4W	☐ 100A	☐ 400A	☐ MAIN LOGIC ONLY	☐ FLUSH	☐ 12	☐ 36	☐ CIRCUIT BREAKERS	☐ FUSES			
☐ 120/240 3Ø 4W	☐ 200A	☐ 400A	☐ 1200A CIRCUIT BREAKER	☐ SURFACE	☐ 18	☐ 42	☐ TO BE GFCI BREAKERS				
☐ 121/240/3Ø 4W	☐ 225A	☐ 1200A	☐ 1 FUSED SWITCH	☐ NEMA 1	☐ 24	☐ 60	☐ LOAD CENTER PERMITTED				
☐ SERVICE ENTRANCE RATED				☐ HINGED DOOR				NOTES			
INTERUPTING RATING (AIC AC VSC)				☐ NEUTRAL BUS				☐ BUS MATERIAL			
☐ 10,000A	☐ 30,000A	☐ 65,000A	☐ 50%	☐ 200%	☐ COPPER						
☐ 14,000A	☐ 42,000A	☐ 100,000A	☐ 100%	☐ %	☐ ALUMINUM						
☐ 22,000A	☐ 50,000A	☐ 000A	☐ GROUND BUS REQUIRED	☐ PAINTED STEEL							
☐ SERIES RATING PERMITTED				☐ THROUGH FEED LOGS REQUIRED							
☐ PANELS IN PARALLEL				☐ NAMEPLATE							



ELECTRICAL - PARTIAL SYSTEMS PLAN
SCALE: 1/4" = 1'-0"



- ### GENERAL NOTES THIS DRAWING
- REFER TO POWER PLANS FOR RECEPTACLE LOCATIONS. WHERE 120V RECEPTACLES ARE IN CLOSE PROXIMITY TO COMMUNICATIONS DEVICES, SUCH DEVICES SHALL BE INSTALLED AT SAME HEIGHT AS RECEPTACLES WITH NO MORE THAN 2" OF SEPARATION BETWEEN THEM.
 - CONDUITS FOR DATA SHALL BE INCREASED BY ONE STANDARD TRADE SIZE FOR ALL RUNS WHICH REQUIRE MORE THAN (1) 90 DEGREE BEND.
 - PROVIDE CONDUIT SLEEVES FOR DATA CABLE PENETRATIONS THROUGH FULL HEIGHT WALL. COORDINATE SIZES AND LOCATIONS WITH DATA CABLE INSTALLER. PROVIDE FIRE STOPPING WHERE NECESSARY TO MAINTAIN FIRE RATING OF WALLS.

ALL LOW VOLTAGE SYSTEMS (WIFI, AUDIO/VISUAL, SECURITY, TELECOM, ACCESS CONTROL, BDA, ETC.) SHALL BE PROVIDED BY THE OWNER'S SUBCONTRACTOR. GENERAL CONTRACTOR TO COORDINATE LOCATIONS AND INFRASTRUCTURE REQUIREMENTS (I.E. LINE VOLTAGE, CONDUIT, ETC.) COORDINATE AND PROVIDE WIRING ACCESS AND NETWORK CONNECTIVITY AS REQUIRED IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.

CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND COORDINATING DEVICE PLACEMENT WITH APPROVED AUDIO VISUAL DRAWINGS AND SUBJECT TO OWNER'S APPROVAL.

- ### KEYED NOTES (X) NOT ALL KEYED NOTES PERTAIN TO CURRENT SHEET
- PROVIDE MULTIPLE 4'X8'X3/4" THICK AC GRADE PLYWOOD BACKBOARDS WITH 2 COATS OF WHITE FIRE RETARDANT PAINT ON ALL SIDES. INSTALL WITH THE 8" DIMENSION MOUNTED VERTICALLY.
 - COPPER PHONE BLOCKS & COAX CABLE SERVICES.
 - IT RACKS ARE TO BE GROUNDED BY THE ELECTRICIAN TO THE GROUNDING BAR. SEE DETAIL 4, F-E505.
 - INCOMING 4" CONDUITS FROM SITE. COORDINATE CONDUITS TO BE AS CLOSE TO WALL AS POSSIBLE PRIOR TO INSTALLATION.
 - OVERHEAD DOORS TO RECEIVE PROXIMITY SENSOR. COORDINATE WITH APPROVED SHOP DRAWINGS.
 - PROVIDE WIRING ACCESS FOR SECURITY CAMERA'S IN ACCORDANCE WITH APPROVED SHOP DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND COORDINATING DEVICE PLACEMENT WITH APPROVED AUDIO VISUAL DRAWINGS AND SUBJECT TO OWNER'S APPROVAL.
 - CARD READER TIED INTO FIRE ALARM SYSTEM TO RELEASE WHEN ALARM SIGNALS.
 - PROVIDE (1) 2" CONDUIT WITH PULL CORD FROM FLOOR BOX TO EACH TV OUTLET LOCATED WITHIN ROOM.
 - ALLOCATE 3'-0" OF WALL SPACE FROM FLOOR TO CEILING FOR BDA (BIDIRECTIONAL AMPLIFIER). PROVIDE 3" CONDUIT WITH NYLON PULL STRING FROM LOCATION OF BDA TO THE DONOR ANTENNA LOCATION ON THE ROOF.
 - REFER TO F-E503 FOR ADDITIONAL REQUIREMENTS. COORDINATE WITH OWNERS SECURITY SYSTEM INSTALLER AND APPROVED SHOP DRAWINGS.
 - CONNECT GENERATOR AND ATS TO BUILDING MANAGEMENT SYSTEM FOR OFF-SITE ALARM AND MONITORING CONNECTIONS.
 - COORDINATE FINAL THERMOSTAT LOCATIONS WITH HVAC AND CONTROLS TRADES. PROVIDE ROUGH-IN BOX AND 3/4" EMPTY CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING SPACE.

AT ALL CAMERA LOCATIONS ASSOCIATED WITH BUILDING, CONTRACTOR SHALL PROVIDE 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. EXTERIOR CONDUITS TURN UP IN IT ROOM.

SEE F-T102 FOR SYSTEMS LEGEND

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ISSUE FOR
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ISSUE DATE
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REVISIONS	NO.	REASON	DATE

PROJECT TEAM

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PROJECT MANAGER
DAVID LITHGOW

DESIGN TEAM
CEA

PROJECT NAME
FPL Columbia Storm Processing Facility Phase 2

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LAKE CITY, FL 32055

PROJECT NO.
814.C6328.01

SHEET TITLE
PARTIAL SYSTEMS PLAN

SHEET NUMBER
F-T101



ELECTRICAL - PARTIAL SYSTEMS PLAN
SCALE: 1/4" = 1'-0"

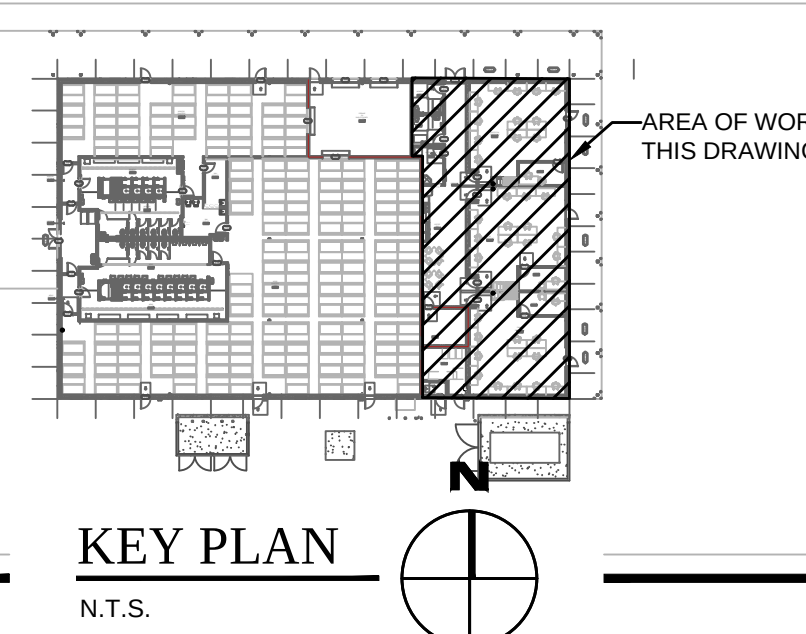
SYSTEMS LEGEND

- UNDERGROUND COMMUNICATIONS
- 2-PORT DATA OUTLET BY OWNER. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
 - 4-PORT DATA OUTLET BY OWNER. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
 - DATA OUTLET FOR RADIO COMMUNICATION BY OWNER. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 1" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
 - DATA OUTLET FOR BUILDING AUTOMATION SYSTEM BY OWNER. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
 - TELEPHONE OUTLET. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
 - (2) TELEPHONE VOICE JACKS IN (1) 4" SQUARE BOX WITH SINGLE GANG COVER. PROVIDE SEPARATE DEDICATED OUTSIDE PHONE LINES FOR EACH JACK. PROVIDE 3/4" CONDUIT.
 - POINT OF CONNECTION FOR DATA SYSTEM RACEWAY TO FURNITURE. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 1" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
 - AUDIO/VISUAL ROUGH-IN OUTLET BOX FOR INSTALLATION OF AV OUTLETS BY OWNER. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED ON PLANS.
 - MODULAR FIRE RATED PATHWAY. BASIS OF DESIGN HILTI CP 653 4 OR APPROVED EQUAL.
 - 12"x4" LADDER TYPE CABLETRAY. MOUNT CABLETRAY AT 8'-3" A.F.F. TO CENTER OF TRAY. UNLESS NOTED OTHERWISE.
 - COMM RACK WITH VERTICAL WIRE MANAGERS PROVIDED BY OWNER.
 - 4"x8"x3/4" FIRE RETARDANT PLYWOOD BACKBOARD.
 - WIRELESS ACCESS POINT PROVIDED BY OWNER.
 - TV. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING FOR CABLE TELEVISION OUTLET BY OWNER. PROVIDE 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
 - DATA OUTLET, VGA AND HDMI (BY OWNER). PROVIDE 4" SQUARE BOX WITH DOUBLE GANG MUD RING. PROVIDE (1) 3/4" CONDUIT WITH PULL STRING FOR DATA AND (1) 1/2" CONDUIT WITH STRING FOR VGA/HDMI CABLES.
 - DATA OUTLETS, VGA AND HDMI (BY OWNER) INSTALLED IN FOUR COMPARTMENT FLOOR BOX, FURNISHED BY DIVISION 26 CONTRACTOR. PROVIDE 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING. REFER TO a-E504 FOR ADDITIONAL DETAIL.
 - DATA OUTLETS, VGA AND HDMI (BY OWNER) INSTALLED IN POKE-THRU TYPE FLOOR BOX, FURNISHED BY DIVISION 26 CONTRACTOR. PROVIDE 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING. REFER TO a-E504 FOR ADDITIONAL DETAIL.
 - DUAL SERVICE MODULAR FURNITURE POKE-THRU, FURNISHED BY DIVISION 26 CONTRACTOR. ALIGN POKE THRU FEED HOLES WITH CENTER OF MODULAR FURNITURE. REFER TO a-E504 FOR ADDITIONAL INFORMATION.
 - 2-GANG JUNCTION BOX. COORDINATE WITH AV INSTALLER AND APPROVED SHOP DRAWINGS.
 - SCREEN LOW VOLTAGE INTERFACE WITH MOTOR AND INTERFACE MOUNTS ABOVE FINISHED CEILING. COORDINATE WITH AV INSTALLER AND APPROVED SHOP DRAWINGS FOR EXACT LOCATION.
 - CEILING MOUNTED SPEAKER. COORDINATE WITH AV INSTALLER AND APPROVED SHOP DRAWINGS FOR EXACT LOCATION.
 - PROVIDE WIRING ACCESS AND NETWORK CONNECTIVITY FOR SECURITY CAMERA'S IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
 - PULL AREA AT PROJECTOR LOCATION. COORDINATE EXACT LOCATION WITH APPROVED AV DRAWINGS.

ELECTRONIC DOOR SYMBOL LEGEND

- | | |
|-----------------------|--------------------------|
| CARD READER | PANIC BAR |
| DOOR CONTACT | POWER OPERATOR |
| ELECTRIC LOCK | PUSH PAD OPERATOR |
| MAGNETIC HOLDER | PTH POWER TRANSFER HINGE |
| OBSTRUCTION SENSOR | REX REQUEST-TO-EXIT |
| OVERHEAD DOOR CONTACT | |

AT ALL CAMERA LOCATIONS ASSOCIATED WITH BUILDING, CONTRACTOR SHALL PROVIDE 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. EXTERIOR CONDUITS TURN UP IN IT ROOM.



GENERAL NOTES THIS DRAWING

- REFER TO POWER PLANS FOR RECEPTACLE LOCATIONS. WHERE 120V RECEPTACLES ARE IN CLOSE PROXIMITY TO COMMUNICATIONS DEVICES, SUCH DEVICES SHALL BE INSTALLED AT SAME HEIGHT AS RECEPTACLES WITH NO MORE THAN 2" OF SEPARATION BETWEEN THEM.
- CONDUITS FOR DATA SHALL BE INCREASED BY ONE STANDARD TRADE SIZE FOR ALL RUNS WHICH REQUIRE MORE THAN (1) 90 DEGREE BEND.
- PROVIDE CONDUIT SLEEVES FOR DATA CABLE PENETRATIONS THROUGH FULL HEIGHT WALL. COORDINATE SIZES AND LOCATIONS WITH DATA CABLE INSTALLER. PROVIDE FIRE STOPPING WHERE NECESSARY TO MAINTAIN FIRE RATING OF WALLS.

ALL LOW VOLTAGE SYSTEMS (WIFI, AUDIO/VISUAL, SECURITY, TELECOM, ACCESS CONTROL, BDA, ETC.) SHALL BE PROVIDED BY THE OWNER'S SUBCONTRACTOR. GENERAL CONTRACTOR TO COORDINATE LOCATIONS AND INFRASTRUCTURE REQUIREMENTS (I.E. LINE VOLTAGE, CONDUIT, ETC.) COORDINATE AND PROVIDE WIRING ACCESS AND NETWORK CONNECTIVITY AS REQUIRED IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.

CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND COORDINATING DEVICE PLACEMENT WITH APPROVED AUDIO VISUAL DRAWINGS AND SUBJECT TO OWNER'S APPROVAL.

KEYED NOTES

- PROVIDE MULTIPLE 4'X8'X3/4" THICK AC GRADE PLYWOOD BACKBOARDS WITH 2 COATS OF WHITE FIRE RETARDANT PAINT ON ALL SIDES. INSTALL WITH THE 8" DIMENSION MOUNTED VERTICALLY.
- COPPER PHONE BLOCKS & COAX CABLE SERVICES.
- IT RACKS ARE TO BE GROUNDED BY THE ELECTRICIAN TO THE GROUNDING BAR. SEE DETAIL 4, F-E505.
- INCOMING 4" CONDUITS FROM SITE. COORDINATE CONDUITS TO BE AS CLOSE TO WALL AS POSSIBLE PRIOR TO INSTALLATION.
- OVERHEAD DOORS TO RECEIVE PROXIMITY SENSOR. COORDINATE WITH APPROVED SHOP DRAWINGS.
- PROVIDE WIRING ACCESS FOR SECURITY CAMERA'S IN ACCORDANCE WITH APPROVED SHOP DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND COORDINATING DEVICE PLACEMENT WITH APPROVED AUDIO VISUAL DRAWINGS AND SUBJECT TO OWNER'S APPROVAL.
- CARD READER TIED INTO FIRE ALARM SYSTEM TO RELEASE WHEN ALARM SIGNALS.
- PROVIDE (1) 2" CONDUIT WITH PULL CORD FROM FLOOR BOX TO EACH TV OUTLET LOCATED WITHIN ROOM.
- ALLOCATE 3'-0" OF WALL SPACE FROM FLOOR TO CEILING FOR BDA (BIDIRECTIONAL AMPLIFIER). PROVIDE 3" CONDUIT WITH NYLON PULL STRING FROM LOCATION OF BDA TO THE DONOR ANTENNA LOCATION ON THE ROOF.
- REFER TO F-E503 FOR ADDITIONAL REQUIREMENTS. COORDINATE WITH OWNERS SECURITY SYSTEM INSTALLER AND APPROVED SHOP DRAWINGS.
- CONNECT GENERATOR AND ATS TO BUILDING MANAGEMENT SYSTEM FOR OFF-SITE ALARM AND MONITORING CONNECTIONS.
- COORDINATE FINAL THERMOSTAT LOCATIONS WITH HVAC AND CONTROLS TRADES. PROVIDE ROUGH-IN BOX AND 3/4" EMPTY CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING SPACE.

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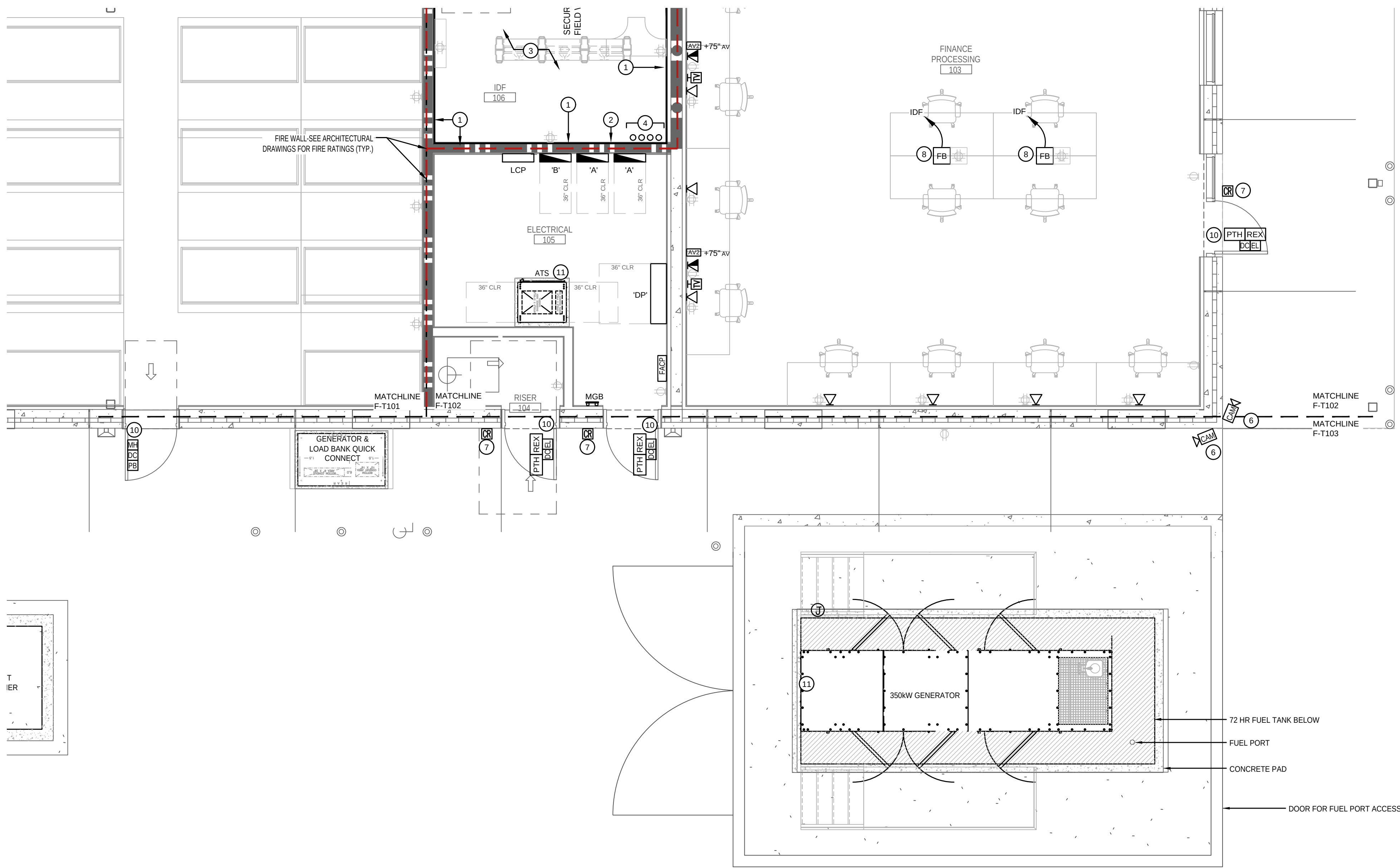
PROJECT TEAM
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PROJECT NAME

FPL Columbia Storm
Processing Facility Phase 2
1185 NW 25A
LAKE CITY, FL 32055

PROJECT NO.
814.C6328.01

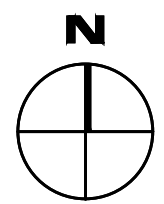
SHEET TITLE
PARTIAL
SYSTEMS PLAN

SHEET NUMBER
F-T102



ELECTRICAL - PARTIAL SYSTEMS PLAN

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



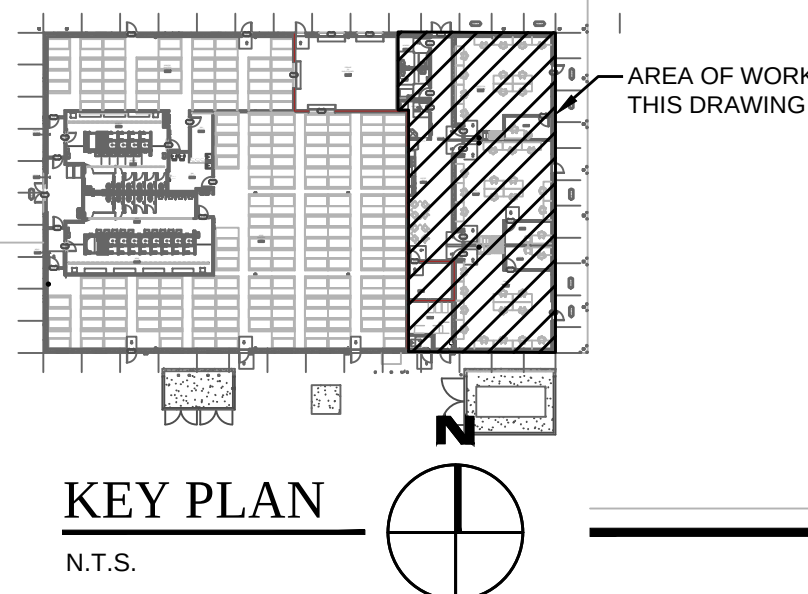
SYSTEMS LEGEND

- UNDERGROUND COMMUNICATIONS
- 2-PORT DATA OUTLET BY OWNER. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
 - 4-PORT DATA OUTLET BY OWNER. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
 - DATA OUTLET FOR RADIO COMMUNICATION BY OWNER. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 1" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
 - DATA OUTLET FOR BUILDING AUTOMATION SYSTEM BY OWNER. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
 - TELEPHONE OUTLET. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
 - (2) TELEPHONE VOICE JACKS IN (1) 4" SQUARE BOX WITH SINGLE GANG COVER. PROVIDE SEPARATE DEDICATED OUTSIDE PHONE LINES FOR EACH JACK. PROVIDE 3/4" CONDUIT.
 - POINT OF CONNECTION FOR DATA SYSTEM RACEWAY TO FURNITURE. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 1" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
 - AUDIO/VISUAL ROUGH-IN OUTLET BOX FOR INSTALLATION OF AV OUTLETS BY OWNER. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED ON PLANS.
 - MODULAR FIRE RATED PATHWAY. BASIS OF DESIGN HILTI CP 653 4 OR APPROVED EQUAL.
 - 12"x4" LADDER TYPE CABLETRAY. MOUNT CABLETRAY AT 8' 3" A.F.F. TO CENTER OF TRAY. UNLESS NOTED OTHERWISE.
 - COMM RACK WITH VERTICAL WIRE MANAGERS PROVIDED BY OWNER.
 - 4"x8"x3/4" FIRE RETARDANT PLYWOOD BACKBOARD.
 - WIRELESS ACCESS POINT PROVIDED BY OWNER.
 - TV. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING FOR CABLE TELEVISION OUTLET BY OWNER. PROVIDE 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
 - DATA OUTLET, VGA AND HDMI (BY OWNER). PROVIDE 4" SQUARE BOX WITH DOUBLE GANG MUD RING. PROVIDE (1) 3/4" CONDUIT WITH PULL STRING FOR DATA AND (1) 1/2" CONDUIT WITH STRING FOR VGA/HDMI CABLES.
 - DATA OUTLETS, VGA AND HDMI (BY OWNER) INSTALLED IN FOUR COMPARTMENT FLOOR BOX. PROVIDE (1) 3/4" CONDUIT WITH PULL STRING FOR DATA AND (1) 1/2" CONDUIT WITH STRING FOR VGA/HDMI CABLES. REFER TO a-E504 FOR ADDITIONAL DETAIL.
 - DATA OUTLETS, VGA AND HDMI (BY OWNER) INSTALLED IN POKE-THRU TYPE FLOOR BOX, FURNISHED BY DIVISION 26 CONTRACTOR. PROVIDE 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING. REFER TO a-E504 FOR ADDITIONAL DETAIL.
 - DIAL SERVICE MODULAR FURNITURE POKE-THRU, FURNISHED BY DIVISION 26 CONTRACTOR. ALIGN POKE THRU FEED HOLES WITH CENTER OF MODULAR FURNITURE. REFER TO a-E504 FOR ADDITIONAL INFORMATION.
 - 2-GANG JUNCTION BOX. COORDINATE WITH AV INSTALLER AND APPROVED SHOP DRAWINGS.
 - SCREEN LOW VOLTAGE INTERFACE WITH MOTOR AND INTERFACE MOUNTS ABOVE FINISHED CEILING. COORDINATE WITH AV INSTALLER AND APPROVED SHOP DRAWINGS FOR EXACT LOCATION.
 - CEILING MOUNTED SPEAKER. COORDINATE WITH AV INSTALLER AND APPROVED SHOP DRAWINGS FOR EXACT LOCATION.
 - PROVIDE WIRING ACCESS AND NETWORK CONNECTIVITY FOR SECURITY CAMERA'S IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
 - PULL AREA AT PROJECTOR LOCATION. COORDINATE EXACT LOCATION WITH APPROVED AV DRAWINGS.
- CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND COORDINATING DEVICE PLACEMENT WITH APPROVED AUDIO VISUAL DRAWINGS AND SUBJECT TO OWNER'S APPROVAL.

ELECTRONIC DOOR SYMBOL LEGEND

- | | |
|-----------------------|--------------------------|
| CARD READER | PANIC BAR |
| DOOR CONTACT | POWER OPERATOR |
| ELECTRIC LOCK | PUSH PAD OPERATOR |
| MAGNETIC HOLDER | PUSH PAD OPERATOR |
| OBSTRUCTION SENSOR | PTH POWER TRANSFER HINGE |
| OVERHEAD DOOR CONTACT | REX REQUEST-TO-EXIT |

AT ALL CAMERA LOCATIONS ASSOCIATED WITH BUILDING, CONTRACTOR SHALL PROVIDE 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. EXTERIOR CONDUITS TURN UP IN IT ROOM.



GENERAL NOTES THIS DRAWING

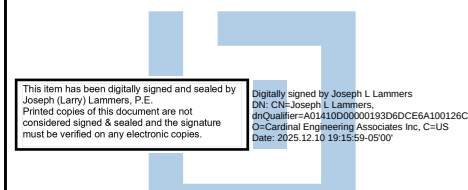
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KEYED NOTES (X) NOT ALL KEYED NOTES PERTAIN TO CURRENT SHEET

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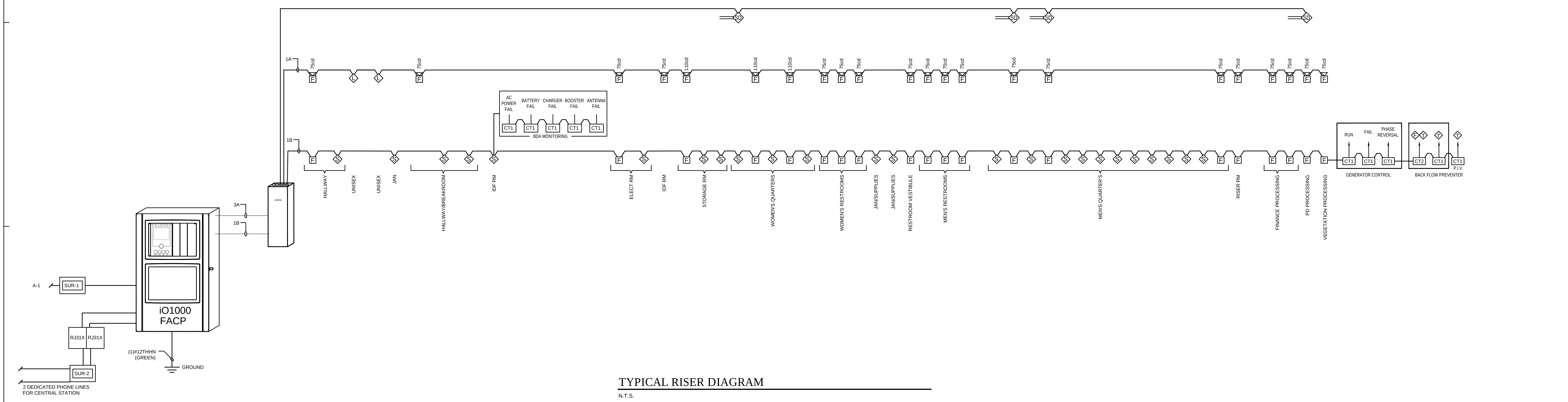
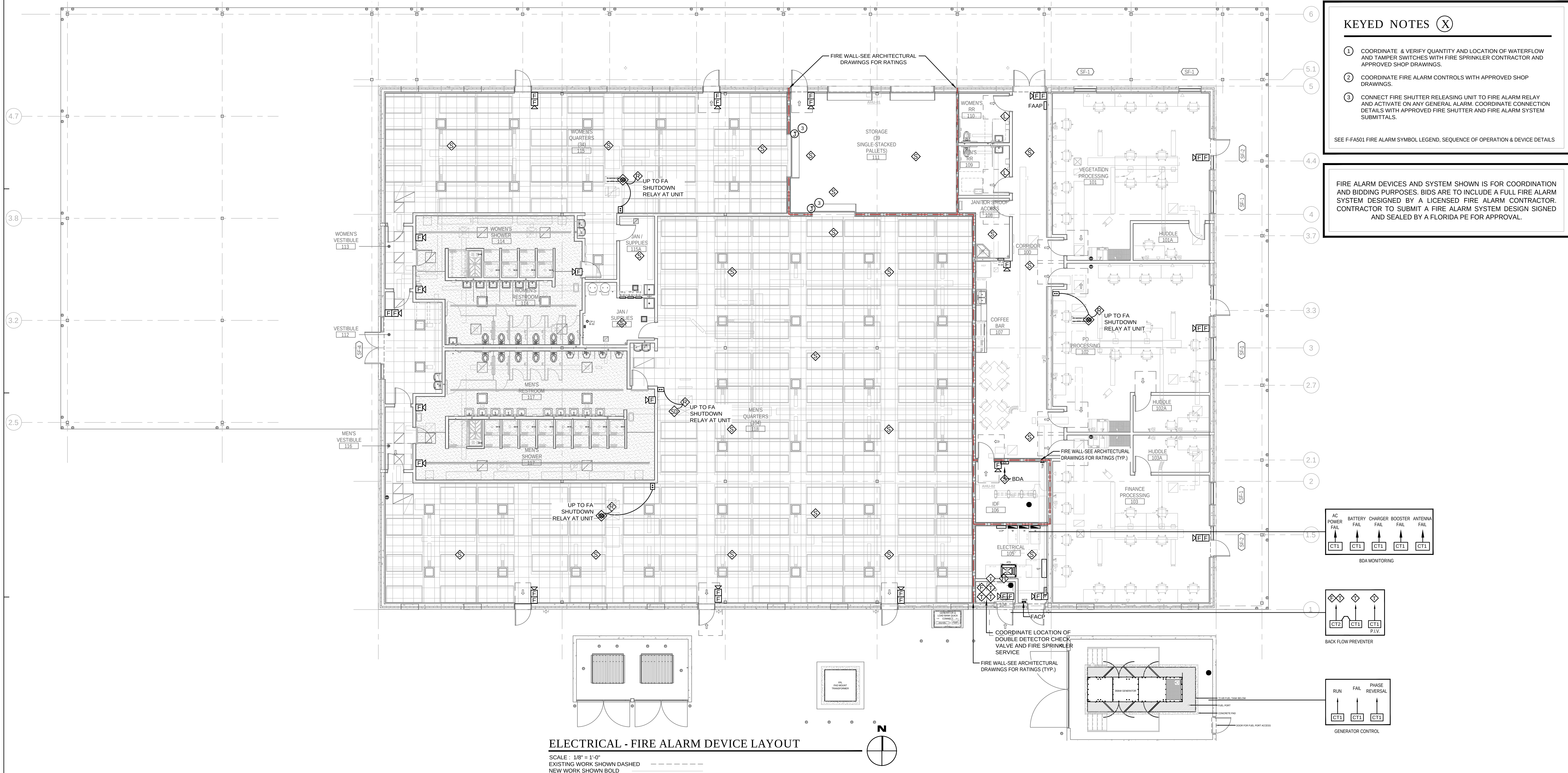
PROJECT TEAM
PRINCIPAL IN CHARGE
DAVID LITHGOW
PROJECT MANAGER
DAVID LITHGOW
DESIGN TEAM
CEA
PROJECT NAME

FPL Columbia Storm
Processing Facility Phase 2
1185 NW 25A
LAKE CITY, FL 32055

PROJECT NO.
814.C6328.01

SHEET TITLE
PARTIAL
SYSTEMS PLAN

SHEET NUMBER
F-T103



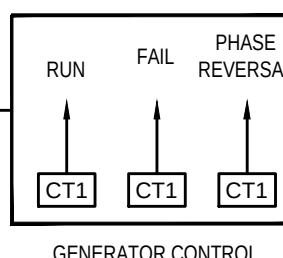
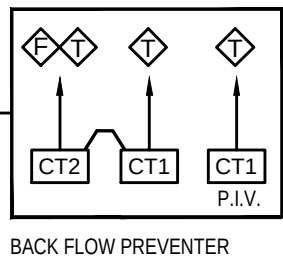
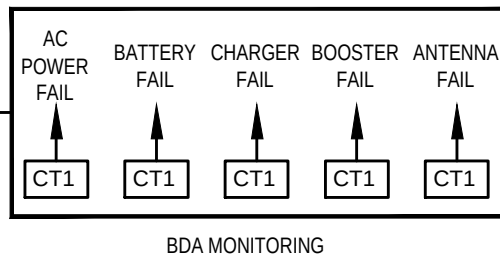
TYPICAL RISER DIAGRAM
N.T.S.

KEYED NOTES (X)

- COORDINATE & VERIFY QUANTITY AND LOCATION OF WATERFLOW AND TAMPER SWITCHES WITH FIRE SPRINKLER CONTRACTOR AND APPROVED SHOP DRAWINGS.
- COORDINATE FIRE ALARM CONTROLS WITH APPROVED SHOP DRAWINGS.
- CONNECT FIRE SHUTTER RELEASING UNIT TO FIRE ALARM RELAY AND ACTIVATE ON ANY GENERAL ALARM. COORDINATE CONNECTION DETAILS WITH APPROVED FIRE SHUTTER AND FIRE ALARM SYSTEM SUBMITTALS.

SEE F-FA501 FIRE ALARM SYMBOL LEGEND, SEQUENCE OF OPERATION & DEVICE DETAILS

FIRE ALARM DEVICES AND SYSTEM SHOWN IS FOR COORDINATION AND BIDDING PURPOSES. BIDS ARE TO INCLUDE A FULL FIRE ALARM SYSTEM DESIGNED BY A LICENSED FIRE ALARM CONTRACTOR. CONTRACTOR TO SUBMIT A FIRE ALARM SYSTEM DESIGN SIGNED AND SEALED BY A FLORIDA PE FOR APPROVAL.



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DAVID LITHGOW

PROJECT MANAGER
DAVID LITHGOW

DESIGN TEAM
CEA

PROJECT NAME

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1185 NW 25A
LAKE CITY, FL 32055

PROJECT NO.

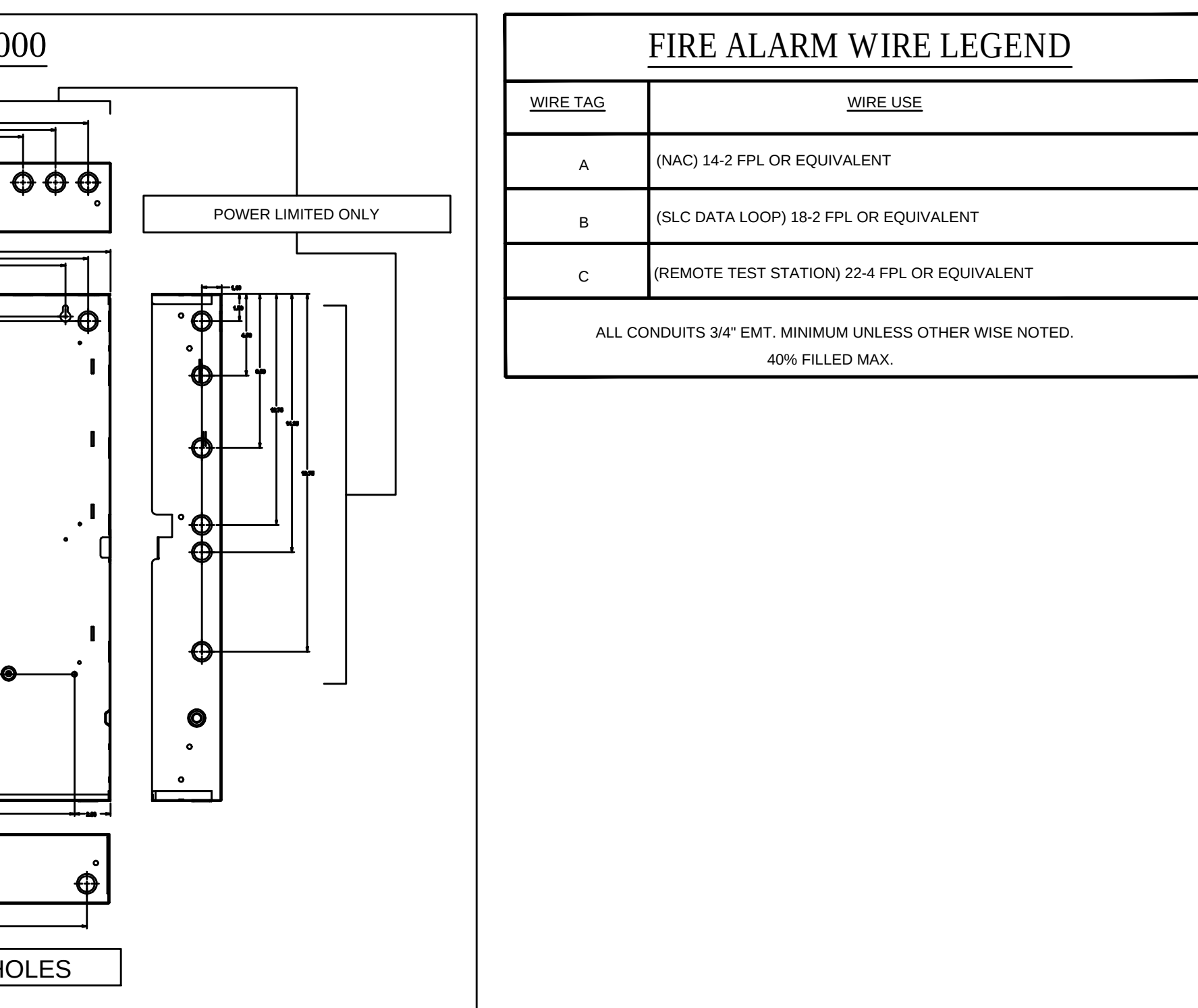
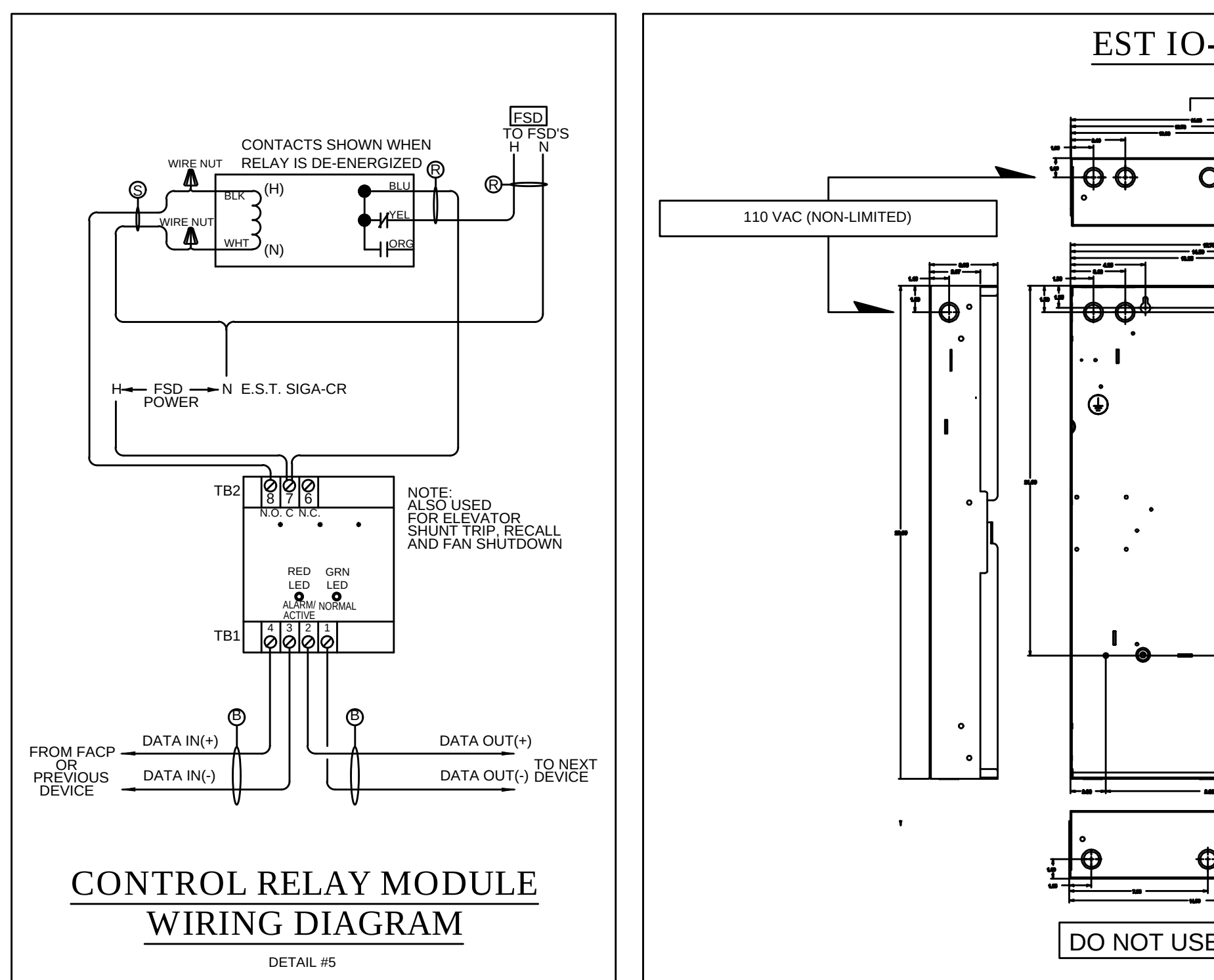
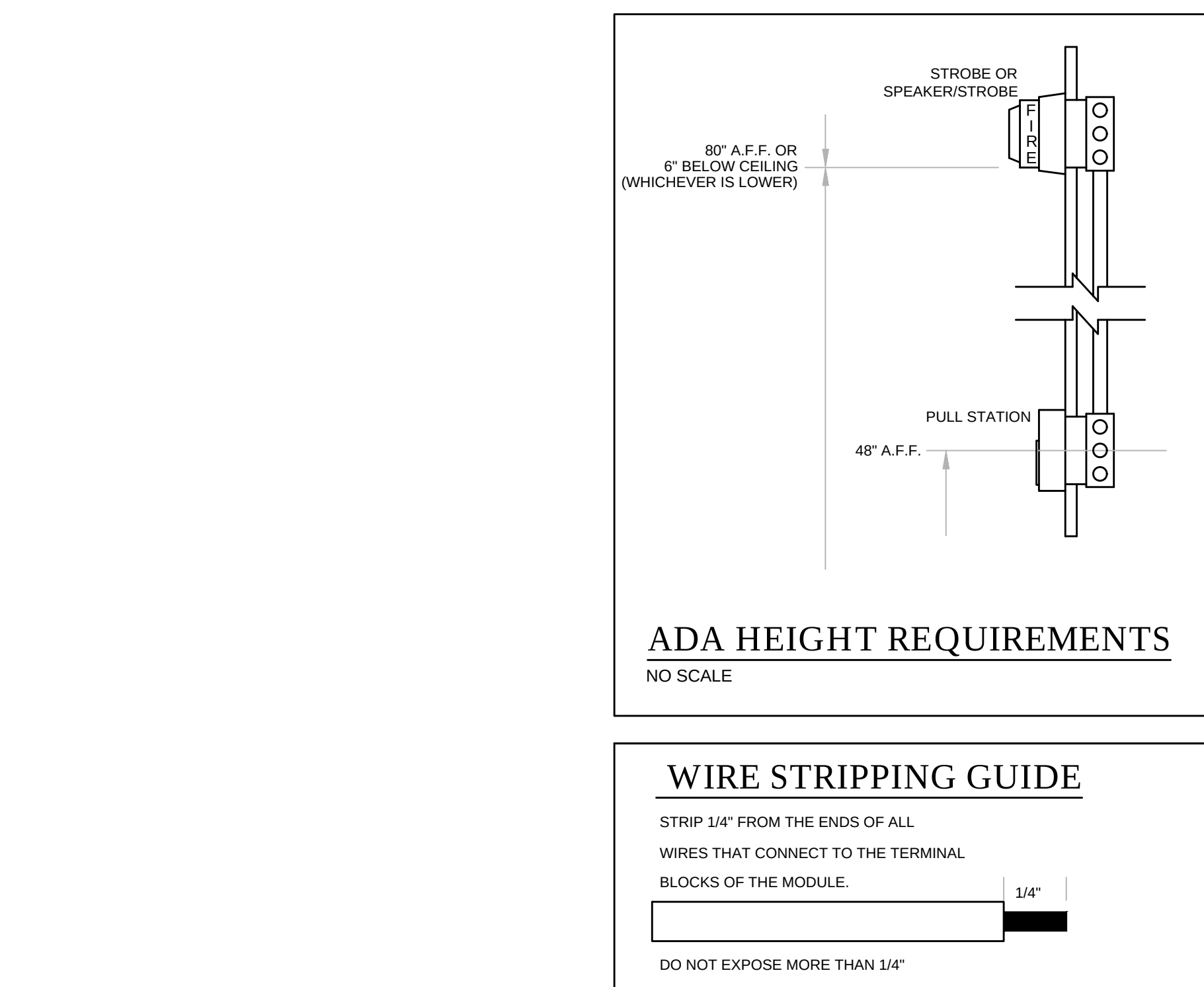
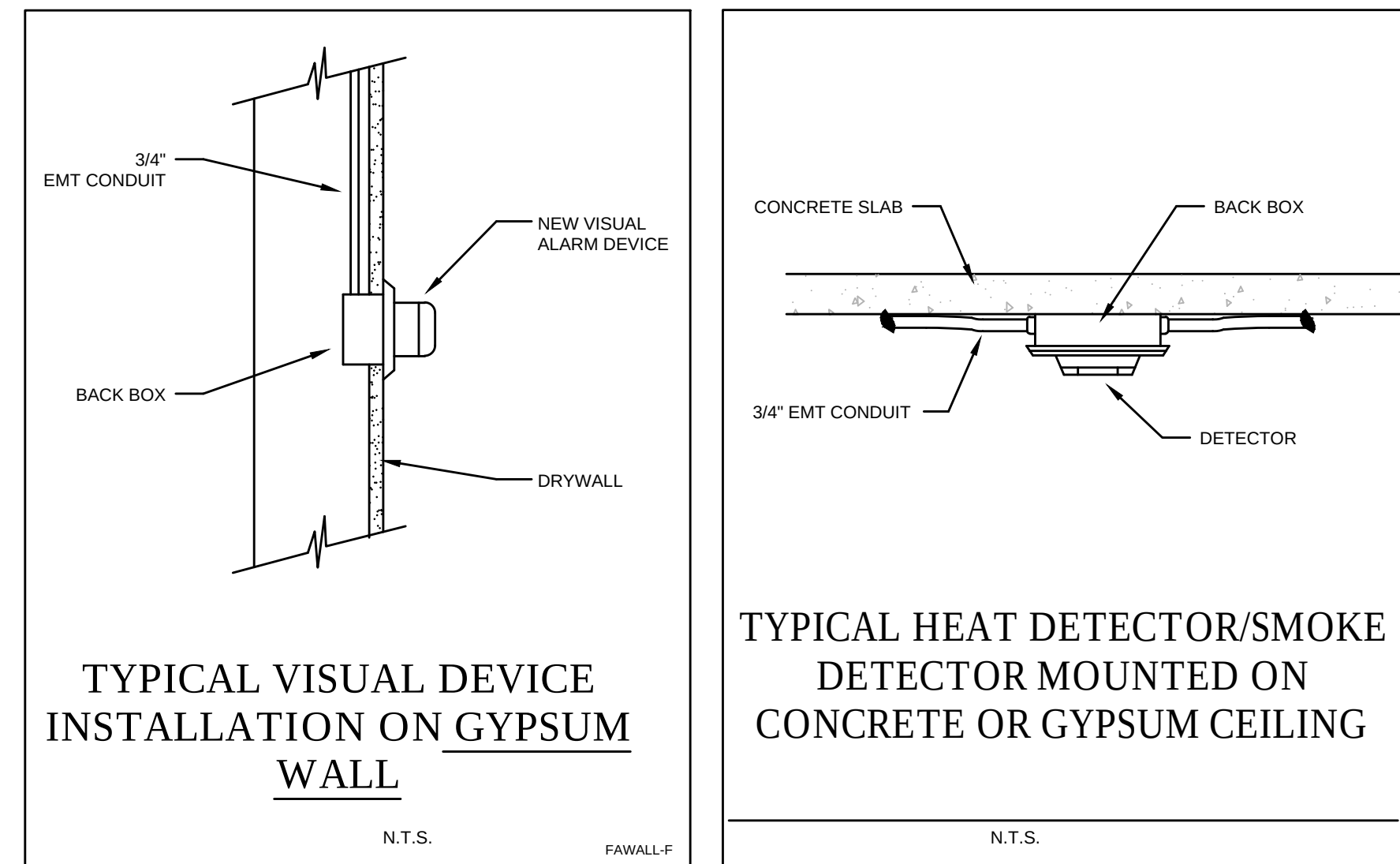
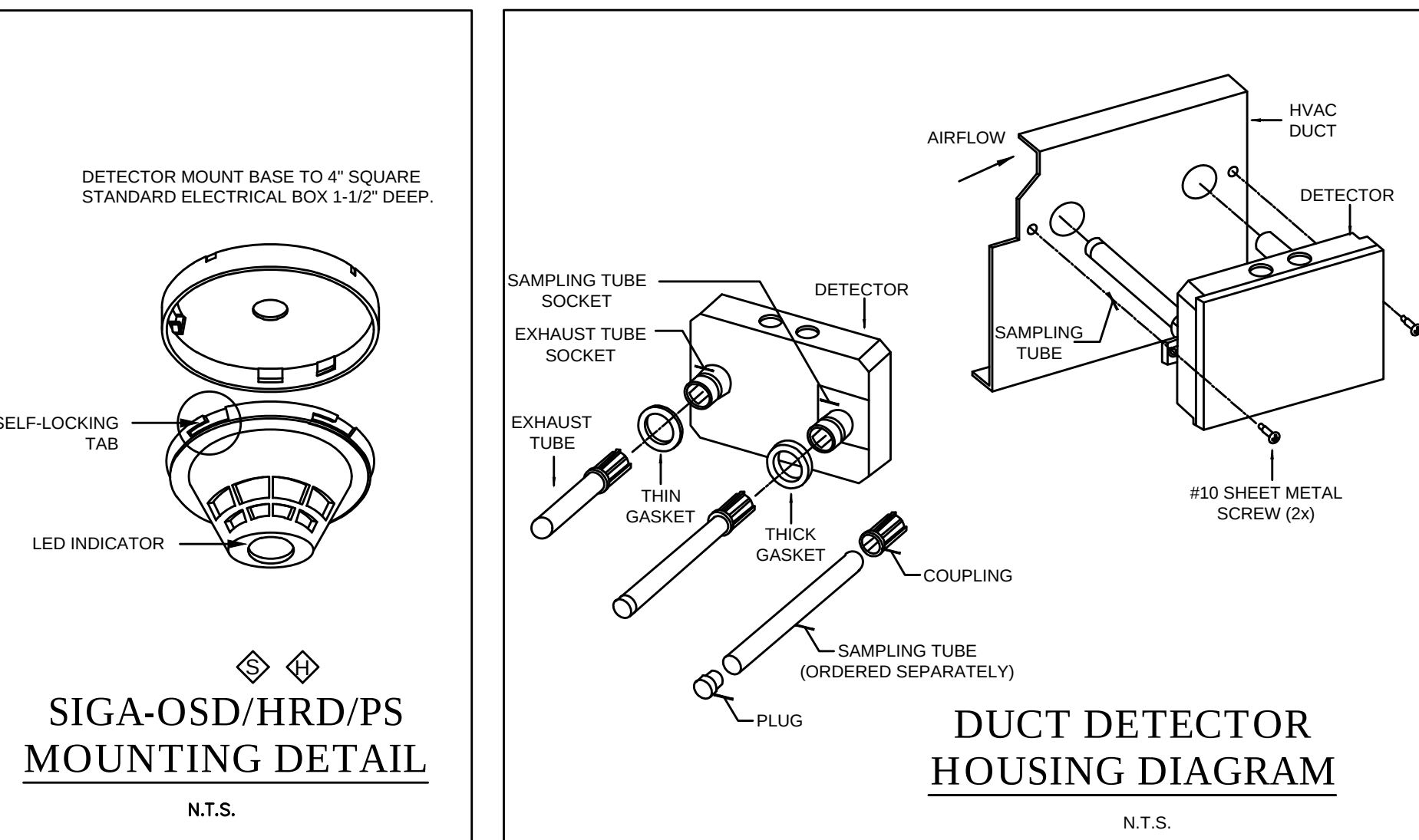
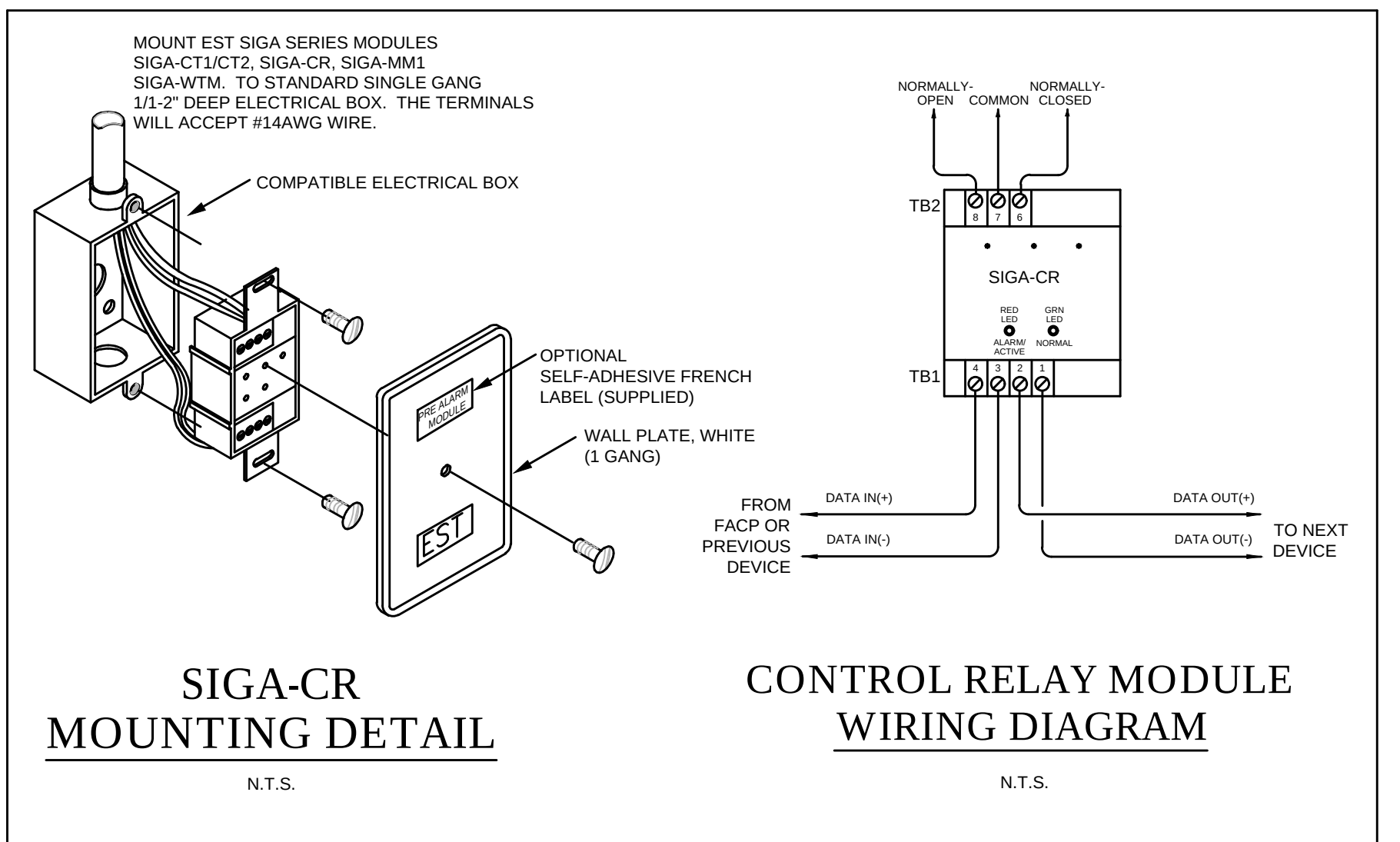
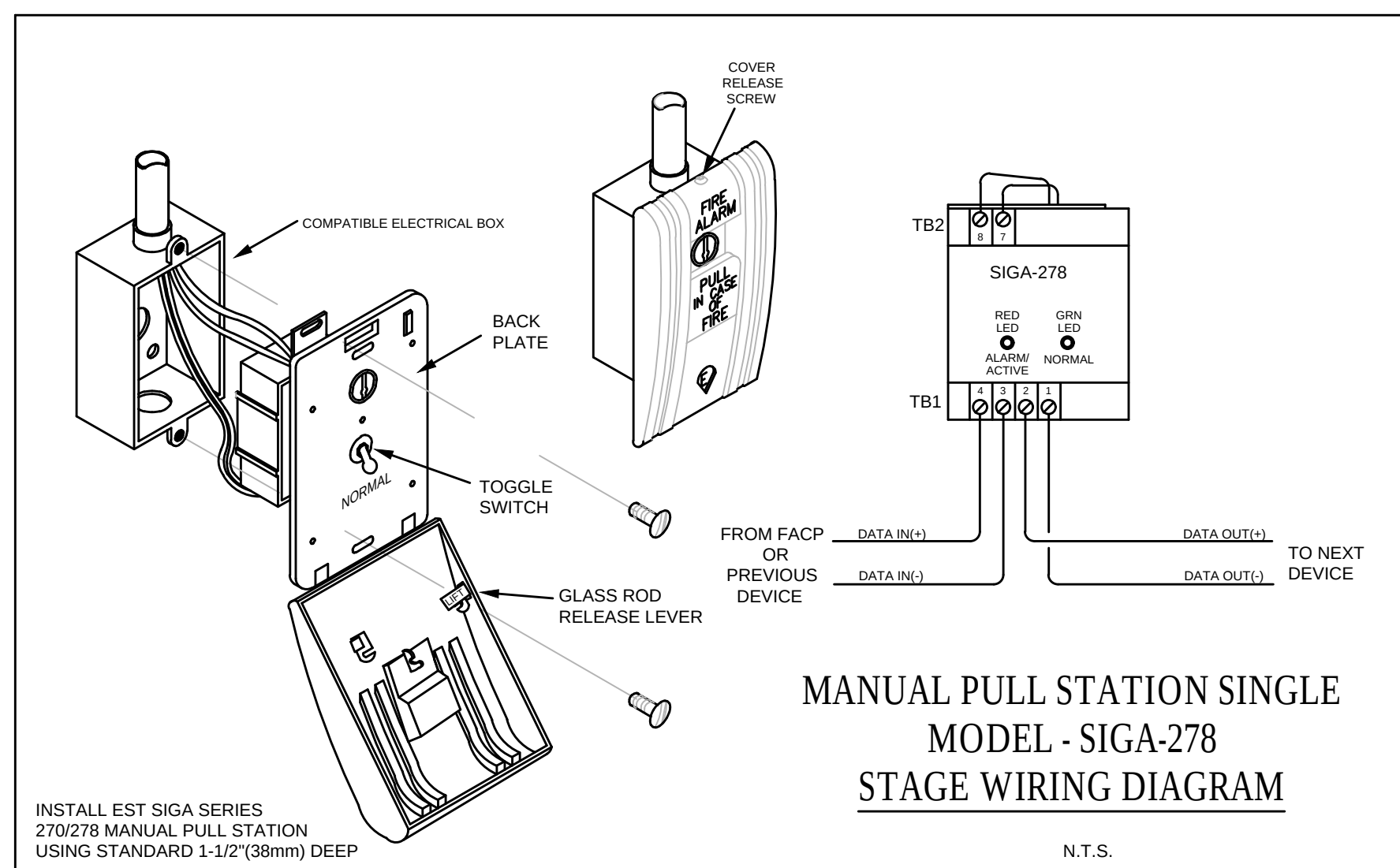
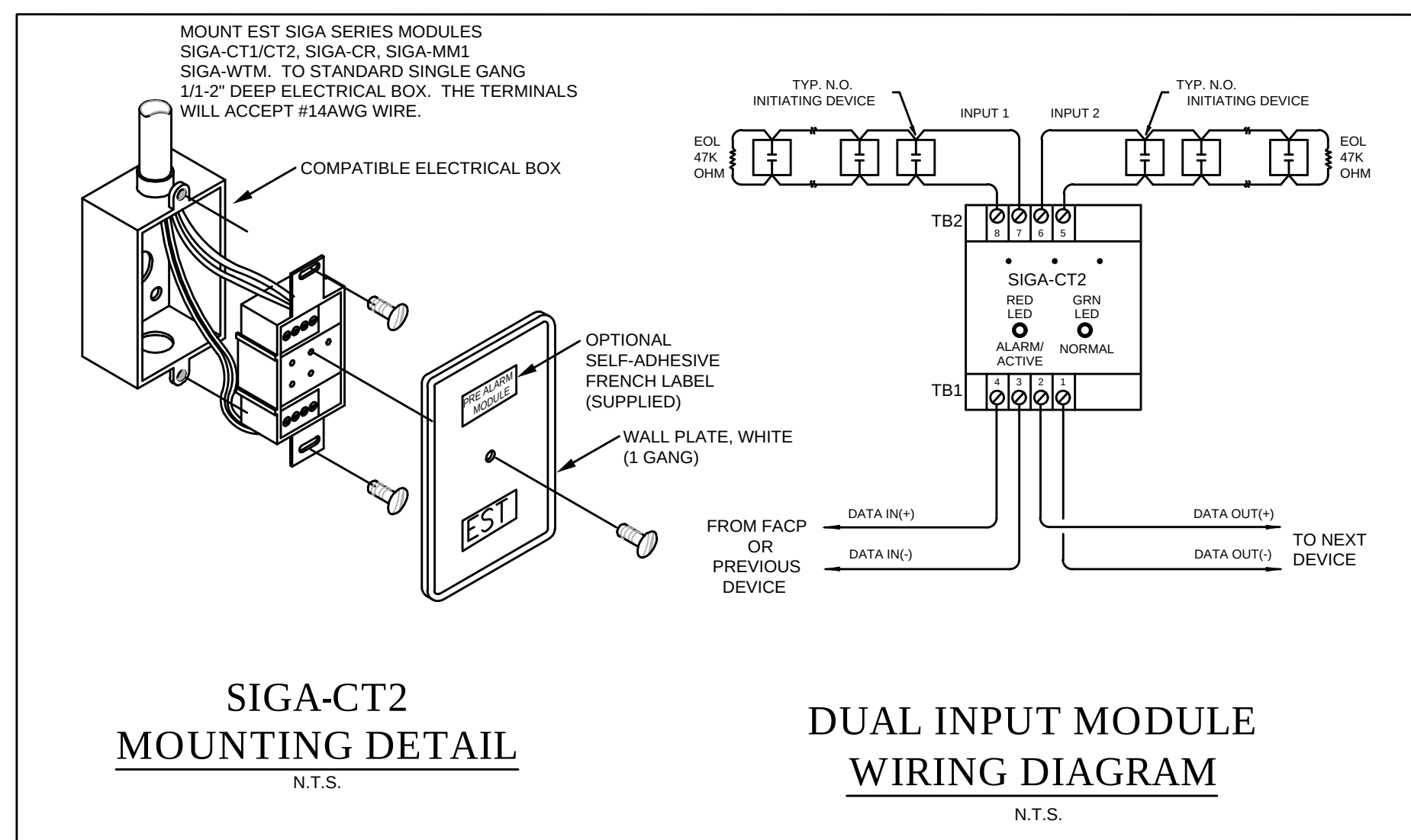
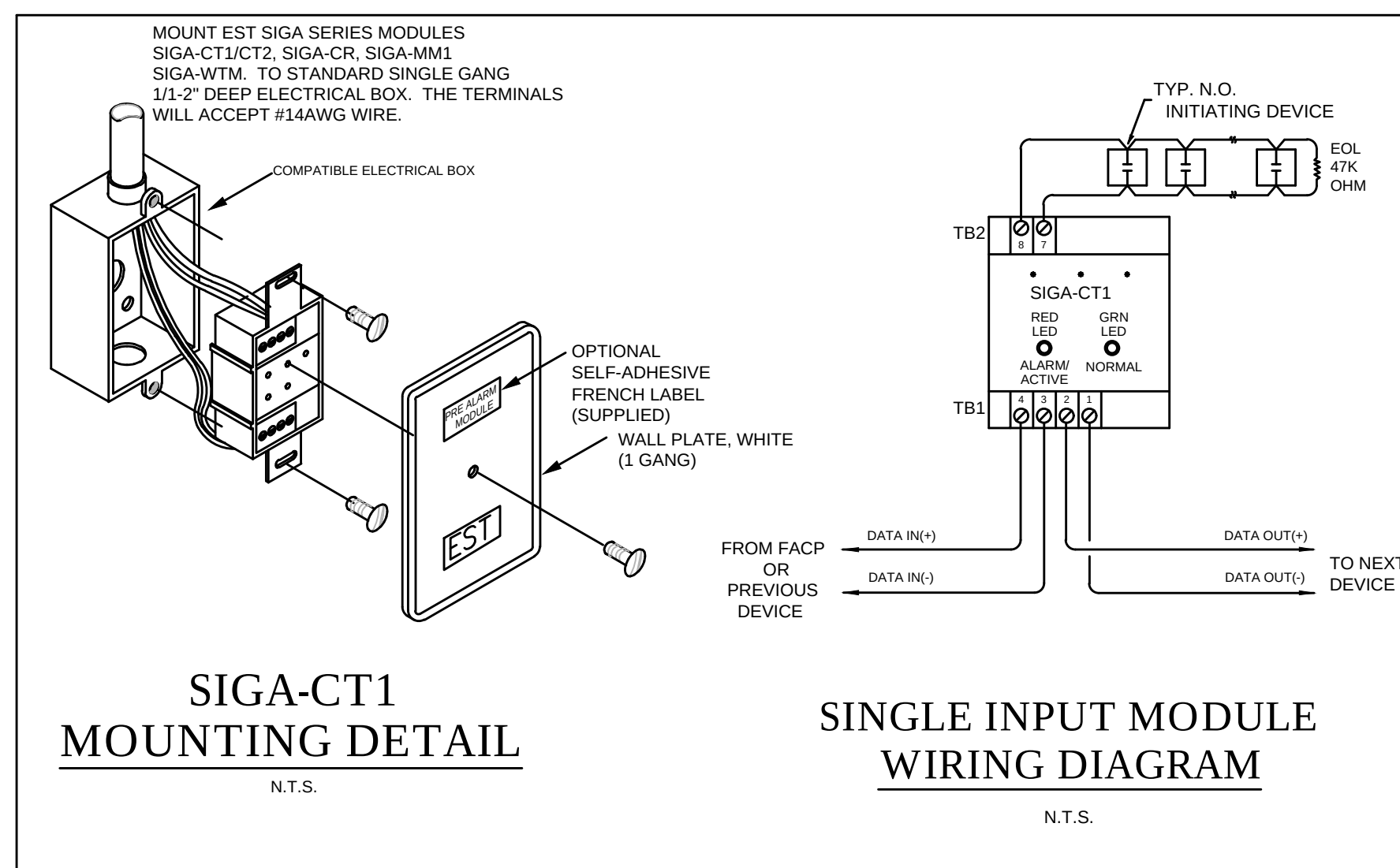
814.C6328.01

SHEET TITLE

FIRE ALARM DEVICE LAYOUT

SHEET NUMBER

F-FA101



FIRE ALARM WIRE LEGEND	
WIRE TAG	WIRE USE
A	(NAC) 14-2 FPL OR EQUIVALENT
B	(SLC DATA LOOP) 18-2 FPL OR EQUIVALENT
C	(REMOTE TEST STATION) 22-4 FPL OR EQUIVALENT

ALL CONDUITS 3/4" EMT. MINIMUM UNLESS OTHER WIRE NOTED.
40% FILLED MAX.

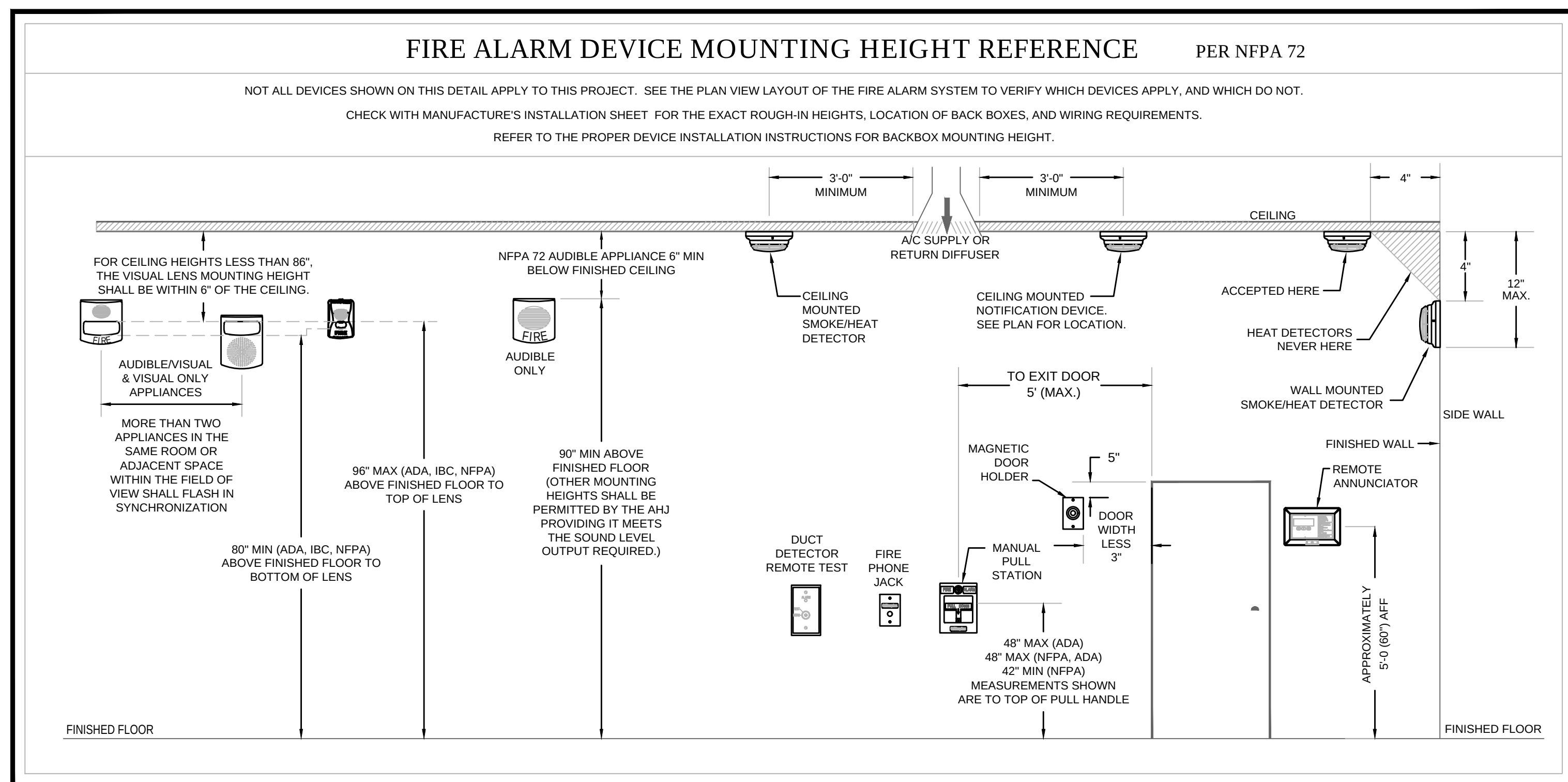
FIRE ALARM SYSTEM GENERAL NOTES

1. ALL WALL-MOUNTED VISUAL SIGNALING APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 IN. (2.03m) AND NOT GREATER THAN 96 IN. ABOVE THE FINISHED FLOOR (A.F.F.) PER NFPA 72 2022 CH. 18.5.5 ALL WALL MOUNTED AUDIBLE DEVICES SHALL BE A MINIMUM OF 80" A.F.F. TO THE TOP OF DEVICE PER NFPA 72 2022 (SECTION 18.5.5.2) AND SHALL BE HAVING THE SAME 2 STROBES TO THE FIELD OF VIEW OF THE DEVICES. SYNCHRONIZED PER NFPA 72, SECTION 18.5.5.4.2.
2. ALL DETECTOR AND DETECTOR LOCATIONS ARE BASED ON SMOOTH CEILING WITH MAXIMUM HEIGHT OF 10 FEET UNLESS OTHERWISE NOTED.
3. STROBE LOCATION IS BASED ON 10 FOOT CEILING HEIGHT AND ARE INSTALLED ACCORDING TO NFPA 72 (SECTION 18.5.5.2) AND FIRE ALARM SIGNALING NOTED ON DEVICES ON CEILINGS OVER 10 FT. WILL BE DERIVED PER NFPA 72.
4. MANUAL PULL STATIONS SHALL BE MOUNTED AT 42-48" TO PULL LEVER ABOVE FINISHED FLOOR LEVEL.
5. ALL EQUIPMENT SHALL BE U.L. LISTED.
6. ALL WIRING SHALL BE IN ACCORDANCE WITH N.E.C. AND AUTHORITIES HAVING JURISDICTION.
7. ALL CONDUIT RUNS SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).
8. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE SERVICING, TROUBLE SHOOTING, ETC.
9. ALL DETECTOR SHALL NOT BE LOCATED IN A DIRECT AIR-FLOW, NOR CLOSER THAN 3 FEET (900mm) FROM AN AIR SUPPLY DIFFUSER.
10. ALL FIRE ALARM DETECTORS SHALL BE MOUNTED BY THE MECHANICAL CONTRACTOR. DUOT DETECTORS EXPOSED TO THE WEATHER SHALL BE WEATHER PROTECTED BY THE MECHANICAL CONTRACTOR. ALL AIR VELOCITY TESTING SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.
11. ALL FIRE ALARM POWER DETECTORS SHALL BE PROVIDED FOR THE CONTRACTOR BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
12. ALL FIRE ALARM DETECTOR, FIRE ALARM CONTROL PANEL, FIRE ALARM CONTROL UNIT, AND ASSOCIATED SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACK BOXES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
13. SMOKE DETECTOR TESTING SHALL BE COMPLETED WITH SMOKE OR LISTED ASPIRATOR APPROVED BY THE MANUFACTURER PER NFPA 72, AS ACCEPTABLE BY THE A.H.J.
14. ALL WIRING SHALL BE CUT/FOR IN AND OUT. WIRING SHALL NOT BE LOOSED THROUGH DEVICES.
15. ALL WIRING TO COME AND/OR WIRING AND T-TAPPING ARE PENDING SHALL BE (T-TAPPING) TO BE DERIVED ON ADDRESSABLE STYLE 4 SCL LOOPS).
16. THE ALARM SYSTEM SHALL HAVE AN AUDIBILITY OF NOT LESS THAN 150dB ABOVE AMBIENT NOISE LEVELS. BUT NOT EXCEED 120dB. THE AREA OF THE PROJECT SHALL BE DIVIDED INTO 100' SQUARE AREAS. WHERE APPLICABLE, AUDIBLE TONE WILL BE TEMPORAL PATTERN.
17. THE SYSTEM SHALL HAVE A 100' SQUARE AREA OF THE PROJECT SHALL BE DIVIDED INTO 100' SQUARE AREAS. WHERE APPLICABLE, AUDIBLE TONE WILL BE TEMPORAL PATTERN.
18. ALL CONDUITS ARE 3/4" UNLESS OTHERWISE NOTED.
19. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.
20. SYSTEM SHALL BE FURNISHED AND INSTALLED BY AN AUTHORIZED DISTRIBUTOR.
21. TAMPER PROOF DEVICES OR OTHER APPROVED MECHANICAL MEANS SHALL BE USED ON ALL COVERS OF ELECTRICAL AND ELECTRICAL CONTROL PANELS IN ALL ELECTRICAL SUPERVISOR OF THE COVERS. PER THE 2022 NFPA 72 23.8.5.1.1.
22. ALL POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED (CIRCUIT BREAKERS SHALL BE LOCKED IN THE ON POSITION WITH AN APPROVED MECHANICAL CUP). CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND SHALL BE IDENTIFIED BY A RED TAG. THE RED TAG SHALL BE THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
23. UPON COMPLETION OF ALL INSTALLATION AND TESTING, THE CONTRACTOR SHALL PROVIDE TO THE AUTHORITY HAVING JURISDICTION AND THE BUILDING OWNER A COMPLETED AND SIGNED NFPA 72 CERTIFICATE OF COMPLETION.
24. SECTION 17.1.11.3 OF THE 2022 EDITION OF NFPA 72 STATES THAT "WHERE DETECTION IS NOT REQUIRED DURING CONSTRUCTION, DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER ALL OTHER CONSTRUCTION TRADES HAVE COMPLETED WORK."
25. PROVIDE PUBLIC ADDRESS SYSTEM FOR SYSTEM ENHANCEMENT, IF REQUIRED, SHALL BE MONITORED BY FIRE ALARM SYSTEM.
26. FIRE ALARM BASIS OF DESIGN IS AN EDWARDS EST4.
27. PROVIDE SIGN INDICATING THE FACP LOCATION ON THE DOOR TO ELEC. ROOM 103.
28. PROVIDE SIGN INDICATING FIRE DEPARTMENT CONNECTION (FDC).
29. PROVIDE COMMUNICATOR TO BE PROVIDED FOR CENTRAL STATION MONITORING.

APPLICABLE CODES / STANDARDS	
<u>PARTIAL LIST OF APPLICABLE NFPA STANDARDS</u>	
NFPA 72- National Fire Alarm Codes (2022 Edition) NFPA 101- Life Safety Code (2021 Edition) 2023 Florida Fire Prevention Code 8th Edition	
BUILDING INFORMATION	
BUILDING CONSTRUCTION TYPE: II-B BUILDING OCCUPANCY: S-2 & HIGH-PIED OCCUPANT LOAD: 137 SPRINKLERED: YES	AREA OF BUILDING: 36,533 sf NO. OF STORIES: 2 OWNER: John McGowan

<u>FIRE ALARM SYMBOL LEGEND</u>		
<u>SYMBOL</u>	<u>DESCRIPTION</u>	<u>MODEL #</u>
	FIRE ALARM CONTROL PANEL	EST-K1000
	SMOKE DETECTOR W/BASE	SiGA-OSD/ SiGA-SB4
	HEAT DETECTOR W/BASE	SiGA-HRD/ SiGA-SB4
	DUCT DETECTOR	SiGA-SD

	FIRE ALARM SYSTEM CONTROL RELAY	
	REMOTE TEST STATION	SD-TRK
	PULL STATION	SIGA-27B
	CONTROL RELAY MODULE	SIGA-CR
	SINGLE INPUT MODULE	SIGA-CT1
	DUAL INPUT MODULE	SIGA-CT2
	SPRINKLER VALVE TAMPER SWITCH	F.B.O
	SPRINKLER WATERFLOW SWITCH	F.B.O
	HORN STROBE	G4AVRF
	WEATHERPROOF HORN STROBE	WG4RF-HVMC
	STROBE	G4VRF
	FIRE STROBE LIGHT WALL MOUNTED AT 80° A.F.F.	
	VOLTAGE SURGE PROTECTOR - 120 VAC	DITEK DTK-120HW
	VOLTAGE SURGE PROTECTOR - TELEPHONE LINES	DITEK DTK-MRJ31XSCFPW
	SYSTEM RECORD DOCUMENTS	SSU00689
	CELL DIALER	SLE-LTEA-CFB-PS



	<u>SYSTEM INPUTS</u>						<u>SYSTEM OUTPUTS</u>							
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1.	MANUAL FIRE ALARM BOXES	●	●				●	●	●				●	●
2.	SMOKE DETECTOR	●	●				●	●	●				●	●
3.	IN-DUCT SMOKE DETECTOR.			●	●			●	●		●			
4.	HEAT DETECTOR		●	●			●	●	●				●	●
5.	WATERFLOW	●	●					●	●	●			●	●
6.	SPRINKLER CONTROL VALVE (TAMPER SWITCH)			●	●			●		●				
7.	NOT USED													
8.	NOT USED													
9.	FIRE ALARM AC POWER FAILURE					●	●					●		
10.	FIRE ALARM SYSTEM LOW BATTERY					●	●					●		
11.	OPEN CIRCUIT					●	●					●		
12.	GROUND FAULT					●	●					●		
13.	NOTIFICATION APPLIANCE CIRCUIT SHORT					●	●					●		

FIRE ALARM DEVICES AND SYSTEM SHOWN IS FOR COORDINATION
AND BIDDING PURPOSES. BIDS ARE TO INCLUDE A FULL FIRE ALARM
SYSTEM DESIGNED BY A LICENSED FIRE ALARM CONTRACTOR.
CONTRACTOR TO SUBMIT A FIRE ALARM SYSTEM DESIGN SIGNED
AND SEALED BY A FLORIDA PE FOR APPROVAL.