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SCOPE OF WORK:
THIS INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 70, NYS ENERGY CONSERVATION CODE, NYS BUILDING CODE AND ANY OTHER JURISDICTION HAVING AUTHORITY. ELECTRICIAN SHALL SECURE ALL PERMITS, CERTIFICATES, LICENSES, ETC. AND PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR A COMPLETE AND SAFE INSTALLATION OF ELECTRICAL ITEMS AS INDICATED ON THE DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- APPLY FOR AND OBTAIN ELECTRICAL PERMITS TO MEET REQUIREMENTS OF THIS PROJECT.
- PROVIDE AND INSTALL NEW UNDERGROUND 400A 120V/208V 3PH SERVICE. PROVIDE UNDERGROUND SERVICE FROM UTILITY POLE TO SUBSTATION BUILDING. COORDINATE WITH UTILITY COMPANY.
- INSTALL NEW METER AND MAIN DISTRIBUTION PANEL FOR THE SUB STATION. INCLUDE 125A/3PH DISCONNECT TO NEW PAVILION.
- RECONNECT ALL EXISTING TO REMAIN PANELBOARDS, FEEDERS AND BRANCH CIRCUITS.
- PROVIDE AND INSTALL ALL RACEWAYS, PANEL BOARDS, WIRING, JUNCTION BOXES, DISCONNECTS, ETC.
- PROVIDE AND INSTALL ALL FIXTURES, LAMPS, CIRCUITS AND CONDUITS.
- PROVIDE AND INSTALL WALL SWITCHES, RECEPTACLES, LIGHTING CONTROLS, TIME CLOCKS, INTERIOR, EXTERIOR AND SITE LIGHTING.
- PROVIDE ALL PRIMARY POWER WIRING IN CONDUIT FOR MECHANICAL EQUIPMENT, PLUMBING EQUIPMENT, FIRE ALARM AND CONTROLS. COORDINATE WITH TRADE CONTRACTORS.
- PROVIDE CONTROL WIRING CONDUIT FOR MECHANICAL EQUIPMENT, PLUMBING EQUIPMENT AND CONTROLS. COORDINATE WITH TRADE CONTRACTORS.
- PROVIDE AND INSTALL ALL INDICATED MISCELLANEOUS SYSTEMS AS SPECIFIED WHICH INCLUDES ALL WIRING AND TERMINATION DEVICE OR FIXTURE.

DATE: 7.18.22
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9 SELENA COURT
WALDEN, NY 12586
(845) 275-8859

TAPPAN FIRE DISTRICT
300 WESTERN HWY S,
TAPPAN NY, 10983

ELECTRICAL SITE PLAN

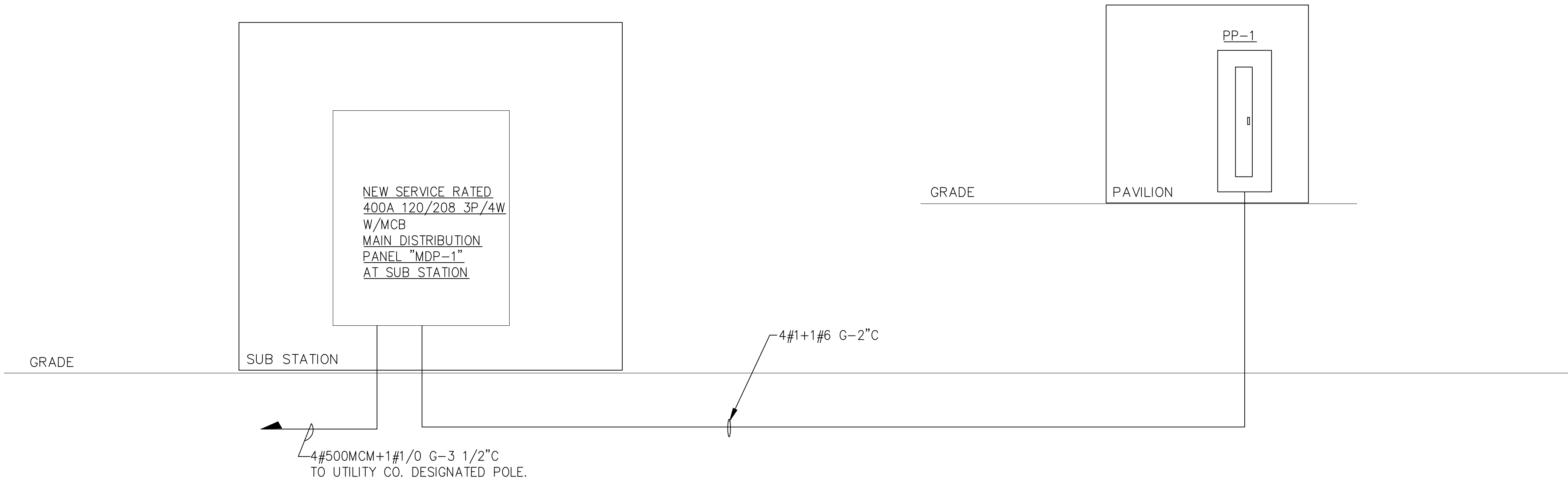
PROJECT #: 21-08

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CAD FILE: 21-08/P:/BID

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E-1



SCHEDULE FOR: PANEL PP1															
Voltage:		208 / 120 V		MLO		X Equip. Ground Bus		Poles: 60		Min CB IC: 10,000 AIC					
Main Bus:		125 A		X MCB		Isol. Ground Bus		RECESSED		Comments:					
Ckt #	Serves	Load VA	Breaker Trip	Minimum Branch Circuit	Phase			Minimum Branch Circuit	Breaker Trip	Load VA	Serves	Ckt #			
1	MAU-1	384	3	4#12,#12G,3/4"	A	B	C	3#8,#10G,1-1/4"	30	2	1768 HEAT PUMP	2			
3	MAKEUP AIR	384								1768	HP-1	4			
5		384					1104	2#12,#12G,3/4"	15	1	720 IR HEATERS	6			
7	KEF-1	540	3	4#12,#12G,3/4"	1040			2#12,#12G,3/4"	15	1	500 WH-1	8			
9		540					840	2#12,#12G,3/4"	15	1	300 P-1	10			
11		540					900	2#12,#12G,3/4"	20	1	360 UPPER LVL REC	12			
13	KEF-2	312	3	4#12,#12G,3/4"	512			2#12,#12G,3/4"	15	1	200 UH-2	14			
15		312					1312	2#12,#12G,3/4"	20	1	1000 MICROWAVE	16			
17		312					492	2#12,#12G,3/4"	20	1	180 REC	18			
19	REACH-IN	936	1	2#12,#12G,3/4"	1116			2#12,#12G,3/4"	20	1	180 REC	20			
21	SOFT SERVE	1872	2	3#10,#12G,3/4"			2052	2#12,#12G,3/4"	20	1	180 REC	22			
23		1872					2052	2#12,#12G,3/4"	20	1	180 REC	24			
25	EUH-1	1800	1	2#12,#12G,3/4"	2160			2#12,#12G,3/4"	20	1	360 TV	26			
27	EUH-2	984	1	2#12,#12G,3/4"			1344	2#12,#12G,3/4"	20	1	360 TV	28			
29	EUH-3	984	1	2#12,#12G,3/4"				1164	2#12,#12G,3/4"	20	1	180 TV	30		
31	REC	180	1	2#12,#12G,3/4"	480			2#12,#12G,3/4"	15	1	300 LIGHTING	32			
33	UH-1	200	1	2#12,#12G,3/4"			950	2#12,#12G,3/4"	15	1	750 LIGHTING	34			
35	LULA LIFT	1200	1	2#12,#12G,3/4"				1800	2#12,#12G,3/4"	20	1	600 LIGHTING	36		
37	HEATED RPZ ENCLOSURE	1500	1	2#12,#12G,3/4"	2400			2#12,#12G,3/4"	20	1	900 FANS	38			
39	EXISTING						800	2#12,#12G,3/4"	20	1	800 LIGHTING	40			
41	EXISTING		20					500	2#12,#12G,3/4"	20	1	500 EXTERIOR LIGHTING	42		
43	EXISTING		20		0				20		EXISTING	44			
45	EXISTING		20			0			20		EXISTING	46			
47	EXISTING		20				0		20		EXISTING	48			
49	EXISTING		20		0				20		EXISTING	50			
51							0					52			
53								0				54			
55					0							56			
57							0					58			
59								0				60			
Total Connected Load (VA)					27322	9860	9450	8012	VA per phase						
						82.2	78.8	66.8	Amps per phase		76	Total Connected Load (Amps)			

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300 WESTERN HWY S,
TAPPAN NY, 10983

ELECTRICAL PANEL SCHEDULES

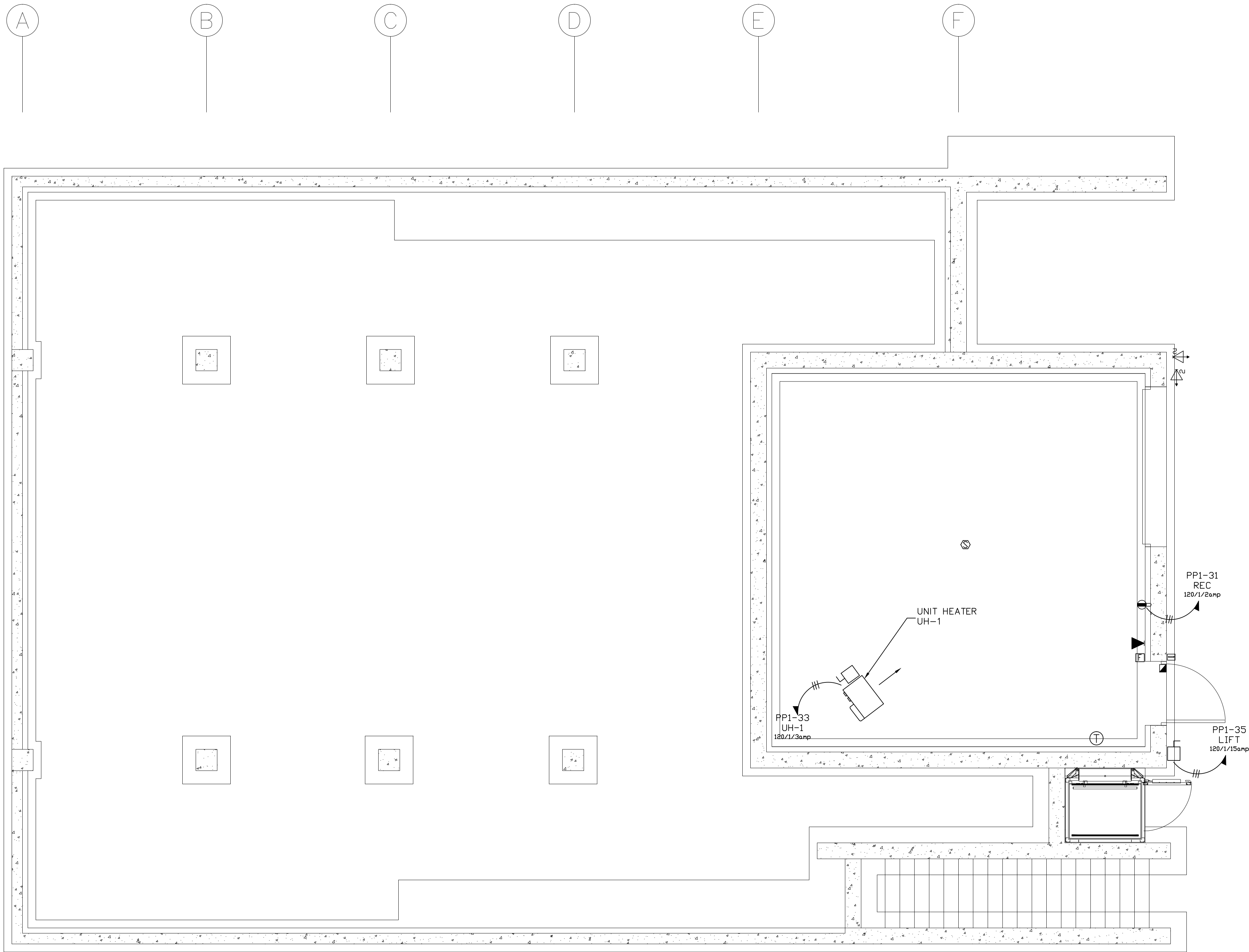
PROJECT #: 21-08

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CAD FILE: 21-08/P-/BID

DRAWING#:

E-2



SYMBOL LIST	
SYMBOL	DESCRIPTION
S a	SINGLE POLE LIGHT SWITCH a = INDICATES LIGHTS CONTROLLED (MOUNTED AT 48" TO TOP OF SWITCH UNLESS OTHERWISE NOTED)
• Φ	DUPLEX RECEPTACLE GROUNDING TYPE, (MOUNTED AT 24" TO TOP OF RECP. UNLESS OTHERWISE NOTED) • DUPLEX RECEPTACLE EQUIPTED WITH USB CHARGING PORT,
⏏	DUPLEX RECEPTACLE (ORANGE) ISOLATED GROUNDING TYPE (COMPUTER TYPE)
⏏	QUAD RECEPTACLE GROUNDING TYPE, (MOUNTED (MOUNTED AT 24" TO TOP OF RECP. UNLESS OTHERWISE NOTED)
⏏	DUPLEX RECEPTACLE (GROUND FAULT INTERRUPTER TYPE) c = DENOTES COUNTER HEIGHT (VERIFY HEIGHT WITH ARCHITECT.)
⤴	HOMERUN TO DESIGNATED PANEL OR BOARD SLASHES INDICATE NUMBER OF WIRES FOR EACH CIRCUIT. ARROWS INDICATE NUMBER OF CIRCUITS.
⏏	DISCONNECT SWITCH FUSED (SIZE AS INDICATED)
▶	CABLE TV OUTLET(MTD. @ 7'-6" AFF) UNLESS NOTED WIRE SUPPLIED & INSTALLED BY ELECTRICAL CONTRACTOR TO COMPUTER IT ROOM. TERMINATE W/2-CAT 6 WIRE WHITE. VERIFY W/CABLE CD.
■	EXTERIOR DOOR ELECTRIC STRIKE
■	CARD READER(MTD. @ 48" AFF) WHERE APPLICABLE
⤴	2 = DENOTES TYPE OF CAMERA(INDOOR)
⤴	STROBE
⤴	HORN/STROBE
⏏	MANUAL PULL STATION
⏏	CONTROL MODULE WITH RELAY/CONTACTOR FOR HOOD
⊙	SMOKE DETECTOR RAL=ABOVE CLG. W/ REMOTE ALARM LAMP
⊙	CARBON MONOXIDE DETECTOR
⊕	HEAT DETECTOR RAL=ABOVE CLG. W/ REMOTE ALARM LAMP

PLAN NOTES:
1. REMOVE EXISTING POWER PANELS, MAIN SERVICE, TRANSFER SWITCH
AND ALL ASSOCIATED WIRING AND CONDUIT. PROVIDE NEW POWER PANEL
AND
REFEED EXISTING CIRCUITS TO REMAIN.
2. NEW ELECTRIC SERVICE AND FEEDERS FOR ALL EQUIPMENT IN THE
ELECTRICAL ROOM, SHALL BE IN CONDUIT AND SHALL BE RUN UNDER
THE SLAB.
3. ALL CELLAR RECEPTACLES SHALL BE GFI. ALL WIRING SHALL BE IN
CONDUIT.
4. BATHROOM EXHAUST FANS SHALL BE INTERLOCKED WITH THE LIGHTING.
FAN SHALL REMAIN ON FOR 15 MINUTES AFTER LIGHTS ARE SHUT OFF.
5. VERIFY RECEPTACLE LOCATIONS, TYPES AND HEIGHTS WITH
ARCHITECT PRIOR TO INSTALLATION.
6. ALL PIPING SHALL BE AT CEILING DOWN TO DEVICE OR FIXTURE
UNLESS OTHERWISE NOTED.
7. CONNECTIONS TO ALL EQUIPMENT SHALL BE AS PER THE
MANUFACTURER'S INSTALLATION MANUAL.
8. CIRCUIT DESIGNATIONS ARE FOR REFERENCE ONLY. ELECTRICIAN
SHALL VERIFY CIRCUIT LOADS OF LIGHTING FIXTURES, POWER AND
EQUIPMENT BEFORE CONNECTING NEW CIRCUITS TO NEW PANELS.
ELECTRICIAN SHALL BE RESPONSIBLE FOR BALANCING LEGS.
9. ALL EQUIPMENT POWER AND CONTROL WIRING SHALL BE IN METAL
CONDUIT.

LOWER LEVEL POWER & MISCELLANEOUS PLAN
SCALE: 1/4" = 1'-0"

DATE: 7.18.22
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LOWER LEVEL
POWER & MISCELLANEOUS PLAN

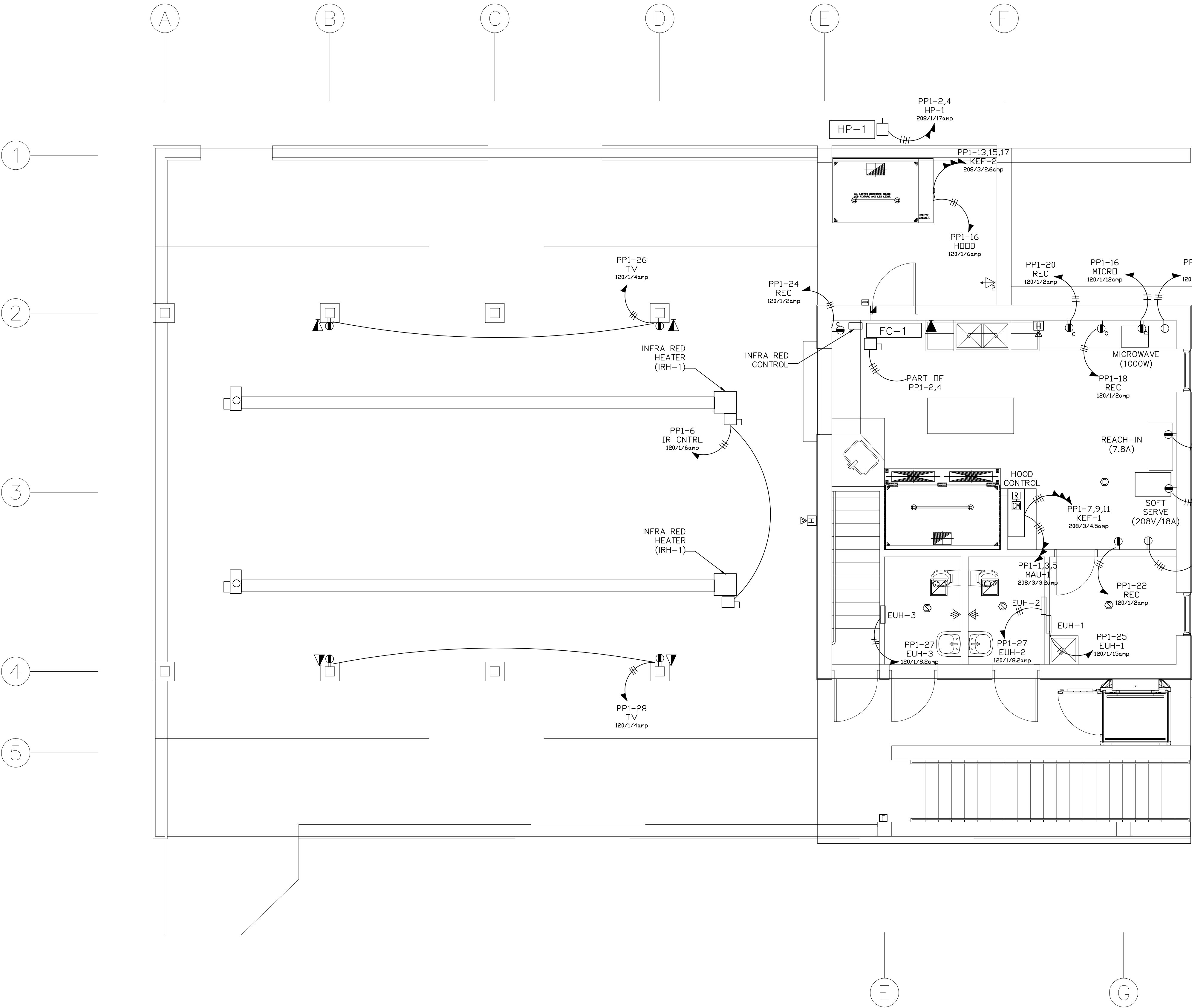
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E-3



SYMBOL LIST	
SYMBOL	DESCRIPTION
	SINGLE POLE LIGHT SWITCH g = INDICATES LIGHTS CONTROLLED (MOUNTED AT 48" TO TOP OF SWITCH UNLESS OTHERWISE NOTED)
	DUPLEX RECEPTACLE GROUNDING TYPE, (MOUNTED AT 24" TO TOP OF RECP. UNLESS OTHERWISE NOTED) • DUPLEX RECEPTACLE EQUIPPED WITH USB CHARGING PORT,
	DUPLEX RECEPTACLE (ORANGE) ISOLATED GROUNDING TYPE (COMPUTER TYPE)
	QUAD RECEPTACLE GROUNDING TYPE, (MOUNTED AT 24" TO TOP OF RECP. UNLESS OTHERWISE NOTED)
	DUPLEX RECEPTACLE (GROUND FAULT INTERRUPTER TYPE) c = DENOTES COUNTER HEIGHT (VERIFY HEIGHT WITH ARCHITECT.)
	HOMERUN TO DESIGNATED PANEL OR BOARD SLASHES INDICATE NUMBER OF WIRES FOR EACH CIRCUIT. ARROWS INDICATE NUMBER OF CIRCUITS.
	DISCONNECT SWITCH FUSED (SIZE AS INDICATED)
	CABLE TV OUTLET(MTD. @ 7'-6" AFF) UNLESS NOTED WIRE SUPPLIED & INSTALLED BY ELECTRICAL CONTRACTOR TO COMPUTER IT ROOM. TERMINATE W/2-CAT 6 WIRE WHITE. VERIFY W/CABLE CD.
	EXTERIOR DOOR ELECTRIC STRIKE CARD READER(MTD. @ 48" AFF) WHERE APPLICABLE
	2 = DENOTES TYPE OF CAMERA(INDOOR)
	STROBE
	HORN/STROBE
	MANUAL PULL STATION
	CONTROL MODULE WITH RELAY/CONTACTOR FOR HOOD
	SMOKE DETECTOR RAL=ABOVE CLG. W/ REMOTE ALARM LAMP
	CARBON MONOXIDE DETECTOR
	HEAT DETECTOR RAL=ABOVE CLG. W/ REMOTE ALARM LAMP

PLAN NOTES:
1. REMOVE EXISTING POWER PANELS, MAIN SERVICE, TRANSFER SWITCH AND ALL ASSOCIATED WIRING AND CONDUIT. PROVIDE NEW POWER PANEL AND REFEED EXISTING CIRCUITS TO REMAIN.
2. NEW ELECTRIC SERVICE AND FEEDERS FOR ALL EQUIPMENT IN THE ELECTRICAL ROOM, SHALL BE IN CONDUIT AND SHALL BE RUN UNDER THE SLAB.
3. ALL CELLAR RECEPTACLES SHALL BE GFI. ALL WIRING SHALL BE IN CONDUIT.
4. BATHROOM EXHAUST FANS SHALL BE INTERLOCKED WITH THE LIGHTING. FAN SHALL REMAIN ON FOR 15 MINUTES AFTER LIGHTS ARE SHUT OFF.
5. VERIFY RECEPTACLE LOCATIONS, TYPES AND HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
6. ALL PIPING SHALL BE AT CEILING DOWN TO DEVICE OR FIXTURE UNLESS OTHERWISE NOTED.
7. CONNECTIONS TO ALL EQUIPMENT SHALL BE AS PER THE MANUFACTURER'S INSTALLATION MANUAL.
8. CIRCUIT DESIGNATIONS ARE FOR REFERENCE ONLY. ELECTRICIAN SHALL VERIFY CIRCUIT LOADS OF LIGHTING FIXTURES, POWER AND EQUIPMENT BEFORE CONNECTING NEW CIRCUITS TO NEW PANELS. ELECTRICIAN SHALL BE RESPONSIBLE FOR BALANCING LEGS.
9. ALL EQUIPMENT POWER AND CONTROL WIRING SHALL BE IN METAL CONDUIT.

FIRST FLOOR POWER & MISCELLANEOUS PLAN
SCALE: 1/4" = 1'-0"

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TAPPAN FIRE DISTRICT
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TAPPAN NY, 10983

FIRST FLOOR POWER &
MISCELLANEOUS PLAN

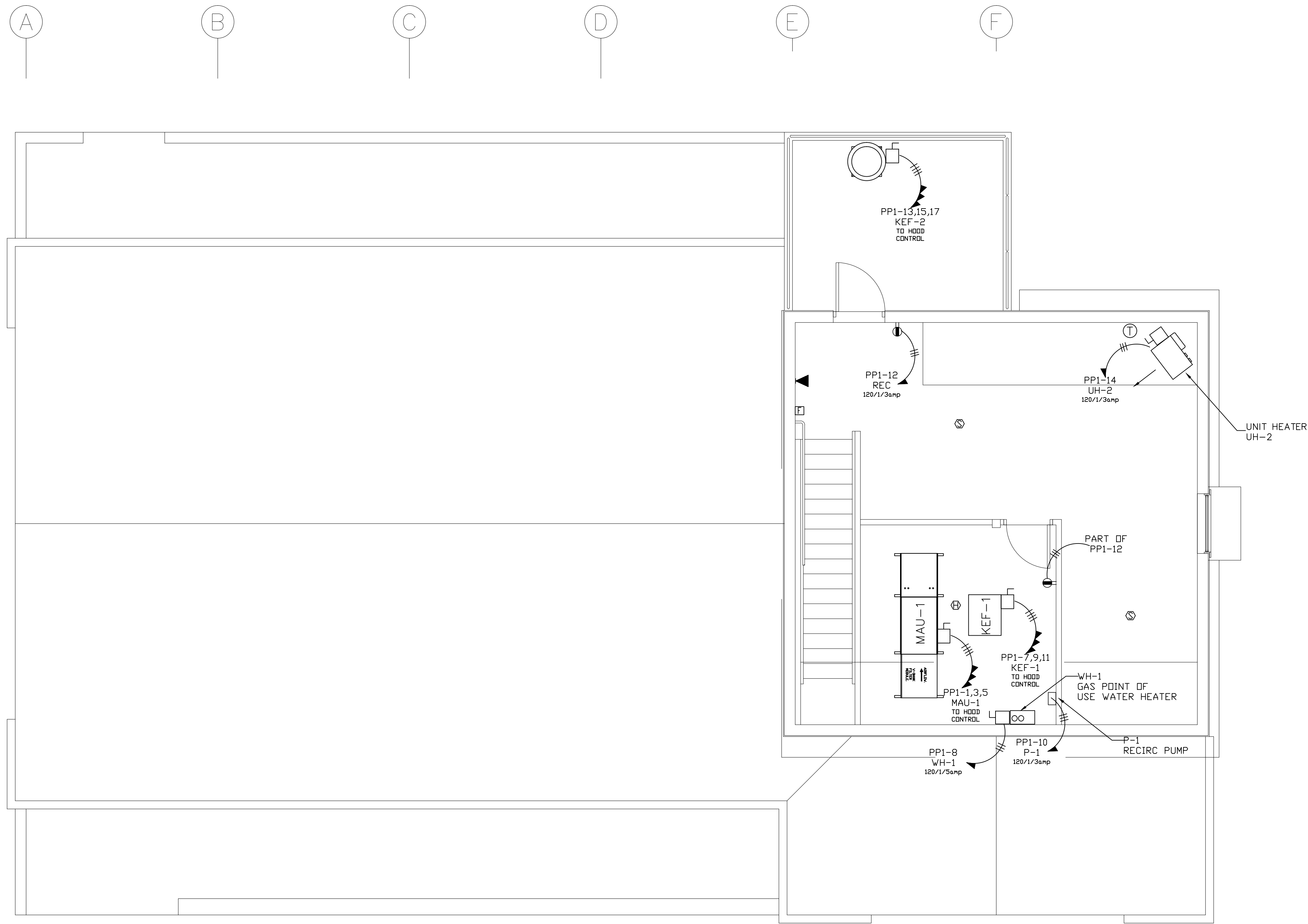
PROJECT #: 21-08

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CAD FILE: 21-08/P-/BID

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E-4



SYMBOL LIST	
SYMBOL	DESCRIPTION
S ♂	SINGLE POLE LIGHT SWITCH s = INDICATES LIGHTS CONTROLLED (MOUNTED AT 48" TO TOP OF SWITCH UNLESS OTHERWISE NOTED)
• ⚡	DUPLEX RECEPTACLE GROUNDING TYPE, (MOUNTED AT 24" TO TOP OF RECP. UNLESS OTHERWISE NOTED) • DUPLEX RECEPTACLE EQUIPPED WITH USB CHARGING PORT,
⚡	DUPLEX RECEPTACLE (ORANGE) ISOLATED GROUNDING TYPE (COMPUTER TYPE)
⚡	QUAD RECEPTACLE GROUNDING TYPE, (MOUNTED (MOUNTED AT 24" TO TOP OF RECP. UNLESS OTHERWISE NOTED)
⚡	DUPLEX RECEPTACLE (GROUND FAULT INTERUPTER TYPE) c = DENOTES COUNTER HEIGHT (VERIFY HEIGHT WITH ARCHITECT.)
⚡	HOMERUN TO DESIGNATED PANEL OR BOARD SLASHES INDICATE NUMBER OF WIRES FOR EACH CIRCUIT. ARROWS INDICATE NUMBER OF CIRCUITS.
⚡	DISCONNECT SWITCH FUSED (SIZE AS INDICATED)
⚡	CABLE TV OUTLET(MTD. @ 7'-6" AFF) UNLESS NOTED WIRE SUPPLIED & INSTALLED BY ELECTRICAL CONTRACTOR TO COMPUTER IT ROOM. TERMINATE W/2-CAT 6 WIRE WHITE. VERIFY W/CABLE CD.
⚡	EXTERIOR DOOR ELECTRIC STRIKE CARD READER(MTD. @ 48" AFF) WHERE APPLICABLE
⚡	2 = DENOTES TYPE OF CAMERA(INDOOR)
⚡	STROBE
⚡	HORN/STROBE
⚡	MANUAL PULL STATION
⚡	CONTROL MODULE WITH RELAY/CONTACTOR FOR HOOD
⚡	SMOKE DETECTOR RAL=ABOVE CLG. W/ REMOTE ALARM LAMP
⚡	CARBON MONOXIDE DETECTOR
⚡	HEAT DETECTOR RAL=ABOVE CLG. W/ REMOTE ALARM LAMP

PLAN NOTES:
1. REMOVE EXISTING POWER PANELS, MAIN SERVICE, TRANSFER SWITCH AND ALL ASSOCIATED WIRING AND CONDUIT. PROVIDE NEW POWER PANEL AND REFEED EXISTING CIRCUITS TO REMAIN.
2. NEW ELECTRIC SERVICE AND FEEDERS FOR ALL EQUIPMENT IN THE ELECTRICAL ROOM, SHALL BE IN CONDUIT AND SHALL BE RUN UNDER THE SLAB.
3. ALL CELLAR RECEPTACLES SHALL BE GFI. ALL WIRING SHALL BE IN CONDUIT.
4. BATHROOM EXHAUST FANS SHALL BE INTERLOCKED WITH THE LIGHTING. FAN SHALL REMAIN ON FOR 15 MINUTES AFTER LIGHTS ARE SHUT OFF.
5. VERIFY RECEPTACLE LOCATIONS, TYPES AND HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
6. ALL PIPING SHALL BE AT CEILING DOWN TO DEVICE OR FIXTURE UNLESS OTHERWISE NOTED.
7. CONNECTIONS TO ALL EQUIPMENT SHALL BE AS PER THE MANUFACTURER'S INSTALLATION MANUAL.
8. CIRCUIT DESIGNATIONS ARE FOR REFERENCE ONLY. ELECTRICIAN SHALL VERIFY CIRCUIT LOADS OF LIGHTING FIXTURES, POWER AND EQUIPMENT BEFORE CONNECTING NEW CIRCUITS TO NEW PANELS. ELECTRICIAN SHALL BE RESPONSIBLE FOR BALANCING LEGS.
9. ALL EQUIPMENT POWER AND CONTROL WIRING SHALL BE IN METAL CONDUIT.

UPPER LEVEL FLOOR PLAN
SCALE: 1/4" = 1'-0"

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TAPPAN FIRE DISTRICT
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UPPER LEVEL POWER &
MISCELLANEOUS PLAN

PROJECT #: 21-08

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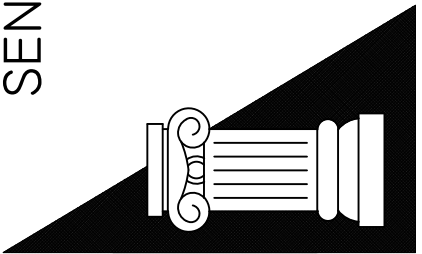
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E-5

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TAPPAN FIRE DISTRICT
300 WESTERN HWY S,
TAPPAN NY, 10983

FIRST FLOOR
LIGHTING PLAN

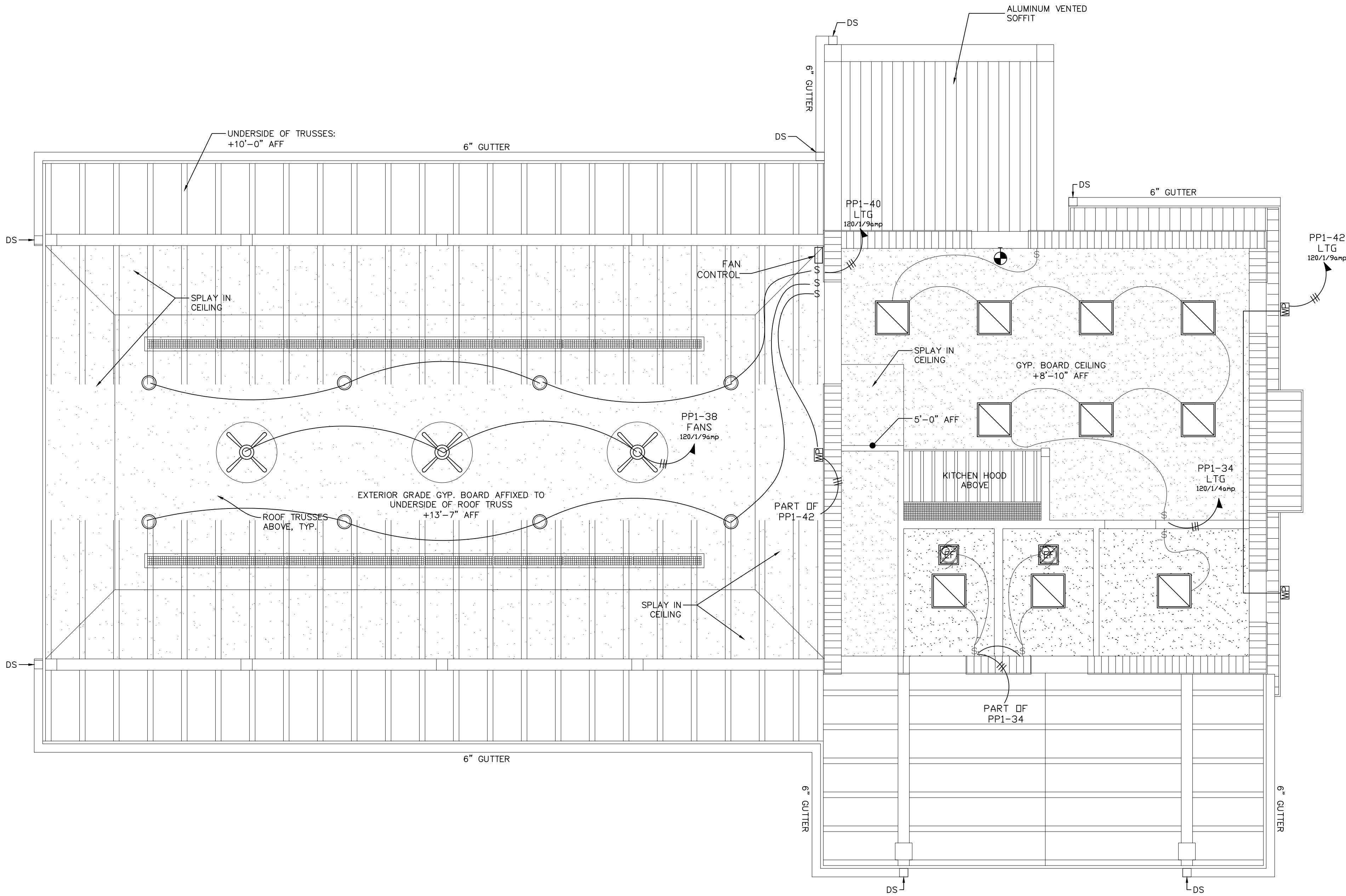
PROJECT #: 21-08

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CAD FILE: 21-08/P:/BID

DRAWING#:

E-6



- GENERAL NOTES:
1. WHERE EXPOSED, ALL WIRING SHALL BE IN CONDUIT.
 2. ALL PIPING SHALL BE AT CEILING DOWN TO DEVICE OR FIXTURE UNLESS OTHERWISE NOTED.
 3. VERIFY ALL FINAL SWITCH LOCATIONS & TYPE WITH ARCHITECT PRIOR TO INSTALLATION.
 4. VERIFY FIXTURE TYPES WITH ARCHITECT PRIOR TO INSTALLATION. CONNECTIONS SHALL BE AS PER MANUFACTURERS REQUIREMENTS.
 5. ALL BATHROOM EXHAUST FANS SHALL BE INTERLOCKED WITH LIGHTING. FAN SHALL REMAIN ON FOR 15 MINUTES AFTER LIGHTS ARE SHUT OFF.

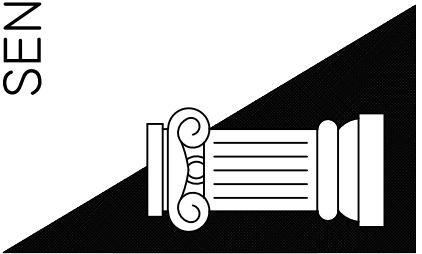
LIGHTING LEGEND	
	LITHONIA LIGHTI FEM L48 6000LM IMAFL WD 80CRI 35K FEM LED 48", 6,000 LUMENS, ACR. 45 WATTS
	LITHONIA LIGHTI EPANL 2X2 4000LM 80CRI 35K EPANL 2X2, 4000 NOMINAL LUMENS 26 WATTS
	GOTHAM ARCHITEC EVD6 35/15 AR WD LSS EVD 6IN ROUND, 80 CRI, 3500K. 35 WATTS
	LED TYPE WALL WALL PACK WITH PHOTOCELL BARRON LIGHTING #TLED-NFM-42-VS-4K 42 WATTS
	LED EXIT SIGN FIXTURE LITHONIA LIGHTING EXRG EL M6. 1 WATT
	NLIGHT NPPI6 D SA POWER/RELAY PACK
	NLIGHT NCM PDT 9 LOW VOLTAGE CEILING MOUNT OCCUPANCY SENSOR
	JUNCTION BOX

FIRST FLOOR LIGHTING PLAN

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

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TAPPAN FIRE DISTRICT
300 WESTERN HWY S,
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MEZZANINE
LIGHTING PLAN

PROJECT #: 21-08

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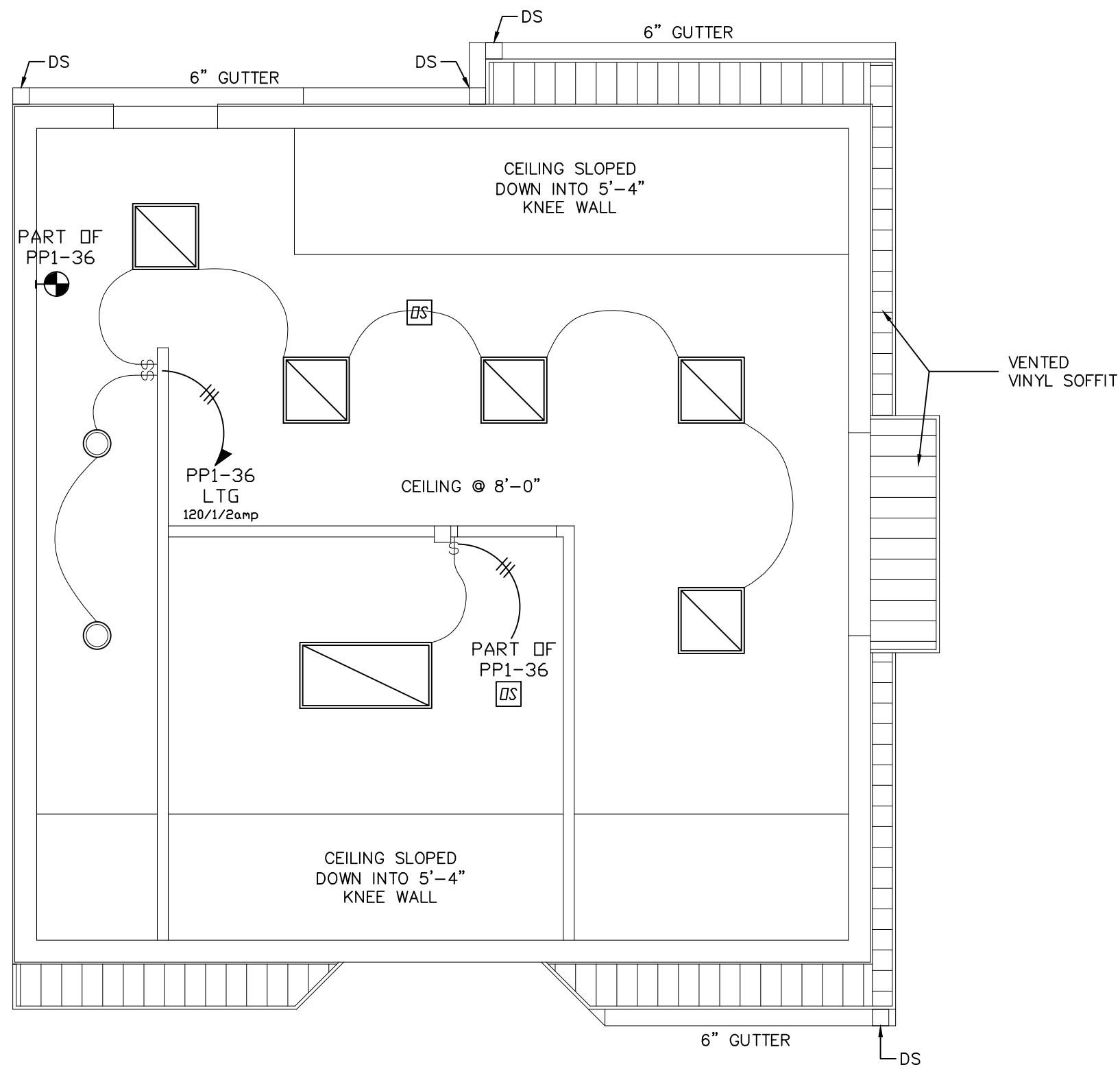
DRAWING#:

E-7

- GENERAL NOTES:
1. WHERE EXPOSED, ALL WIRING SHALL BE IN CONDUIT.
 2. ALL PIPING SHALL BE AT CEILING DOWN TO DEVICE OR FIXTURE UNLESS OTHERWISE NOTED.
 3. VERIFY ALL FINAL SWITCH LOCATIONS & TYPE WITH ARCHITECT PRIOR TO INSTALLATION.
 4. VERIFY FIXTURE TYPES WITH ARCHITECT PRIOR TO INSTALLATION. CONNECTIONS SHALL BE AS PER MANUFACTURERS REQUIREMENTS.
 5. LED STRIP LIGHTING SHALL BE INSTALLED AS PER THE MANUFACTURER'S INSTALLATION MANUAL.
 6. ALL BATHROOM EXHAUST FANS SHALL BE INTERLOCKED WITH LIGHTING. FAN SHALL REMAIN ON FOR 15 MINUTES AFTER LIGHTS ARE SHUT OFF.

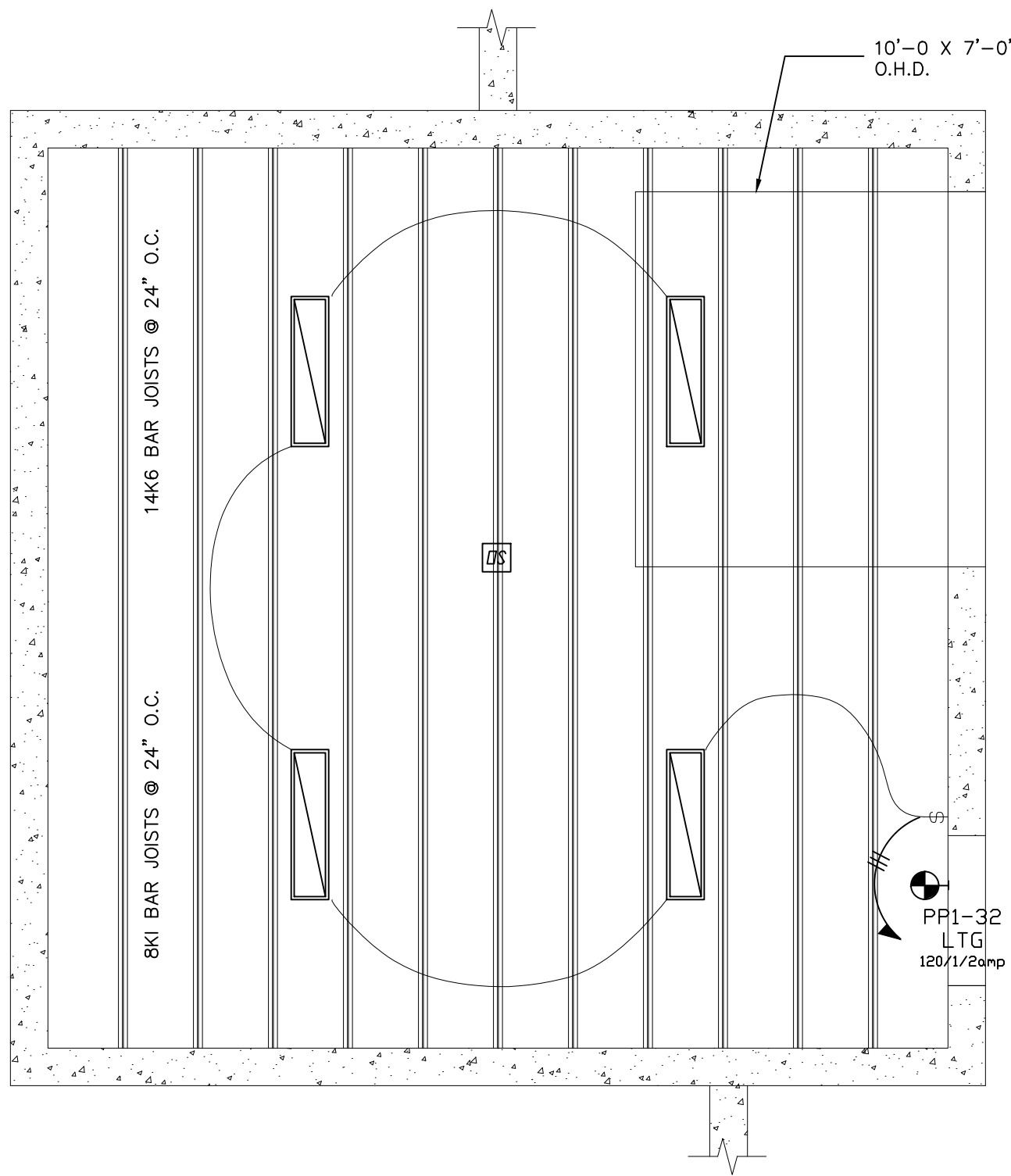
LIGHTING LEGEND

	LITHONIA LIGHTI FEM L48 6000LM 1MAFL VD 80CRI 35K FEM LED 48", 6,000 LUMENS, ACR. 45 WATTS
	LITHONIA LIGHTI EPANL 2X2 4000LM 80CRI 35K EPANL 2X2, 4000 NOMINAL LUMENS 26 WATTS
	GOTHAM ARCHITEC EVD6 35/15 AR VD LSS EVD 6IN ROUND, 80 CRI, 3500K. 35 WATTS
	LED TYPE WALL WALL PACK WITH PHOTOCELL BARRON LIGHTING #TLED-NFM-42-VS-4K 42 WATTS
	LED EXIT SIGN FIXTURE LITHONIA LIGHTING EXRG EL M6. 1 WATT
	NLIGHT NPPI6 D SA POWER/RELAY PACK
	NLIGHT NCM PDT 9 LOW VOLTAGE CEILING MOUNT OCCUPANCY SENSOR
	JUNCTION BOX



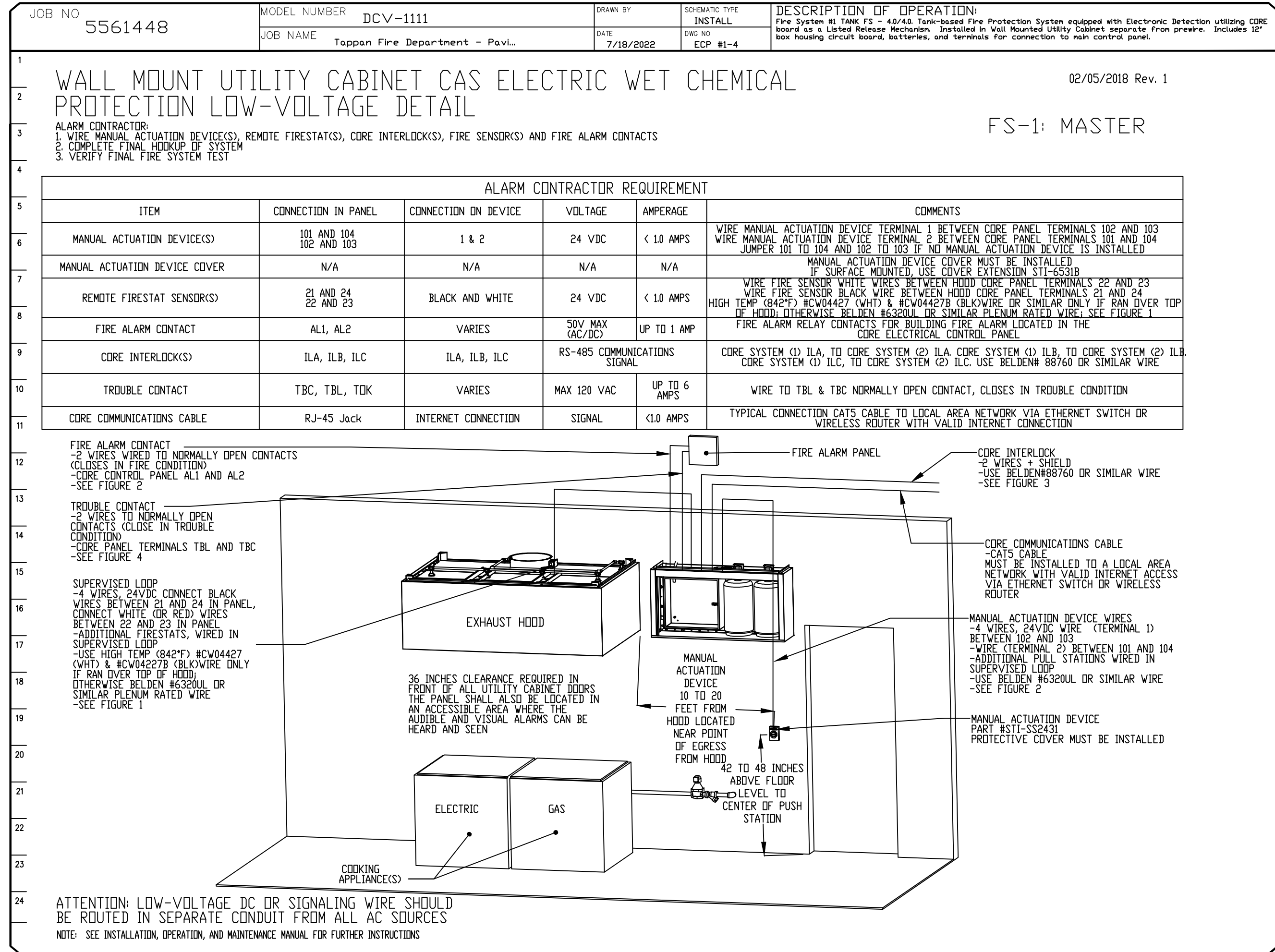
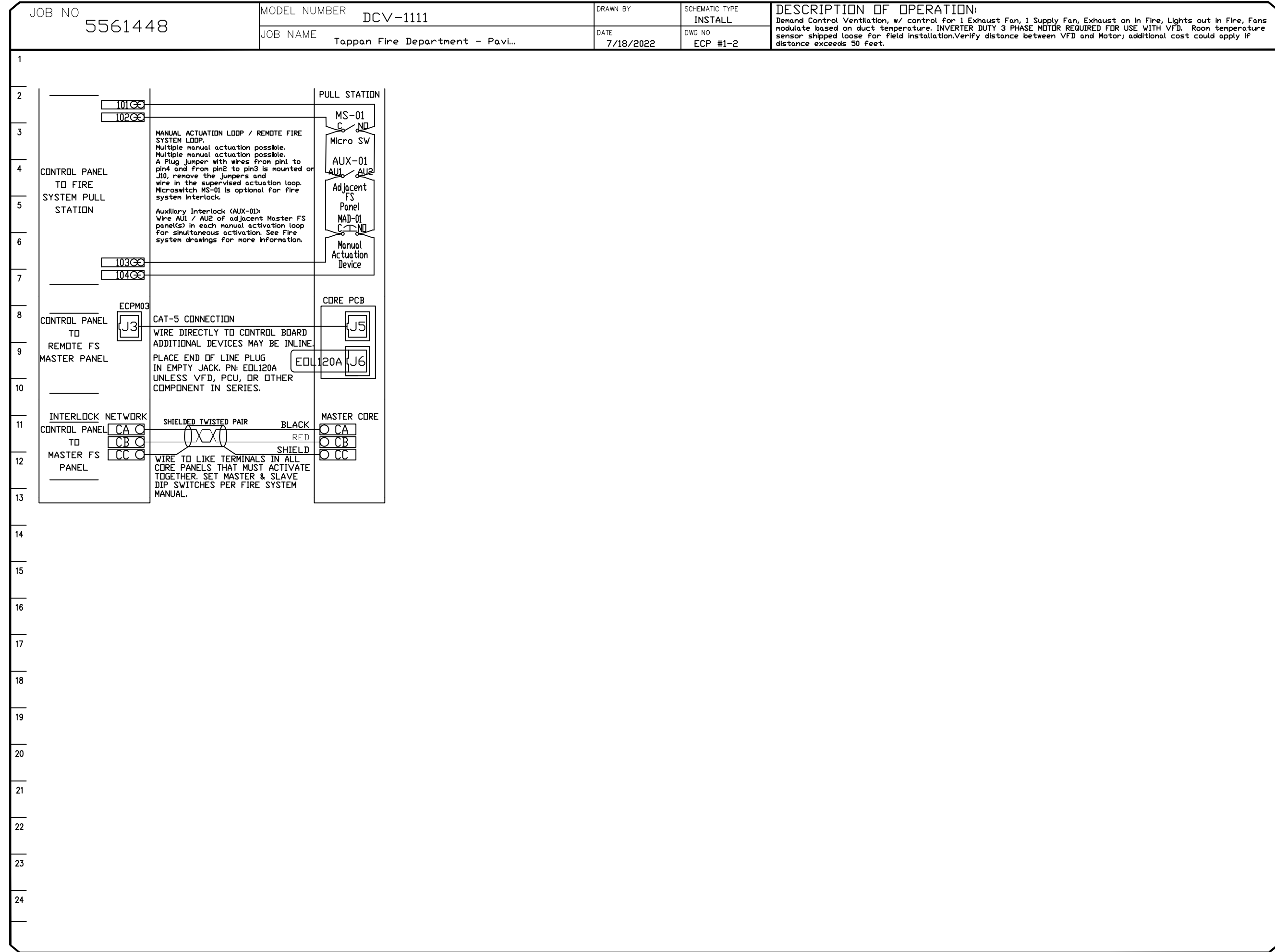
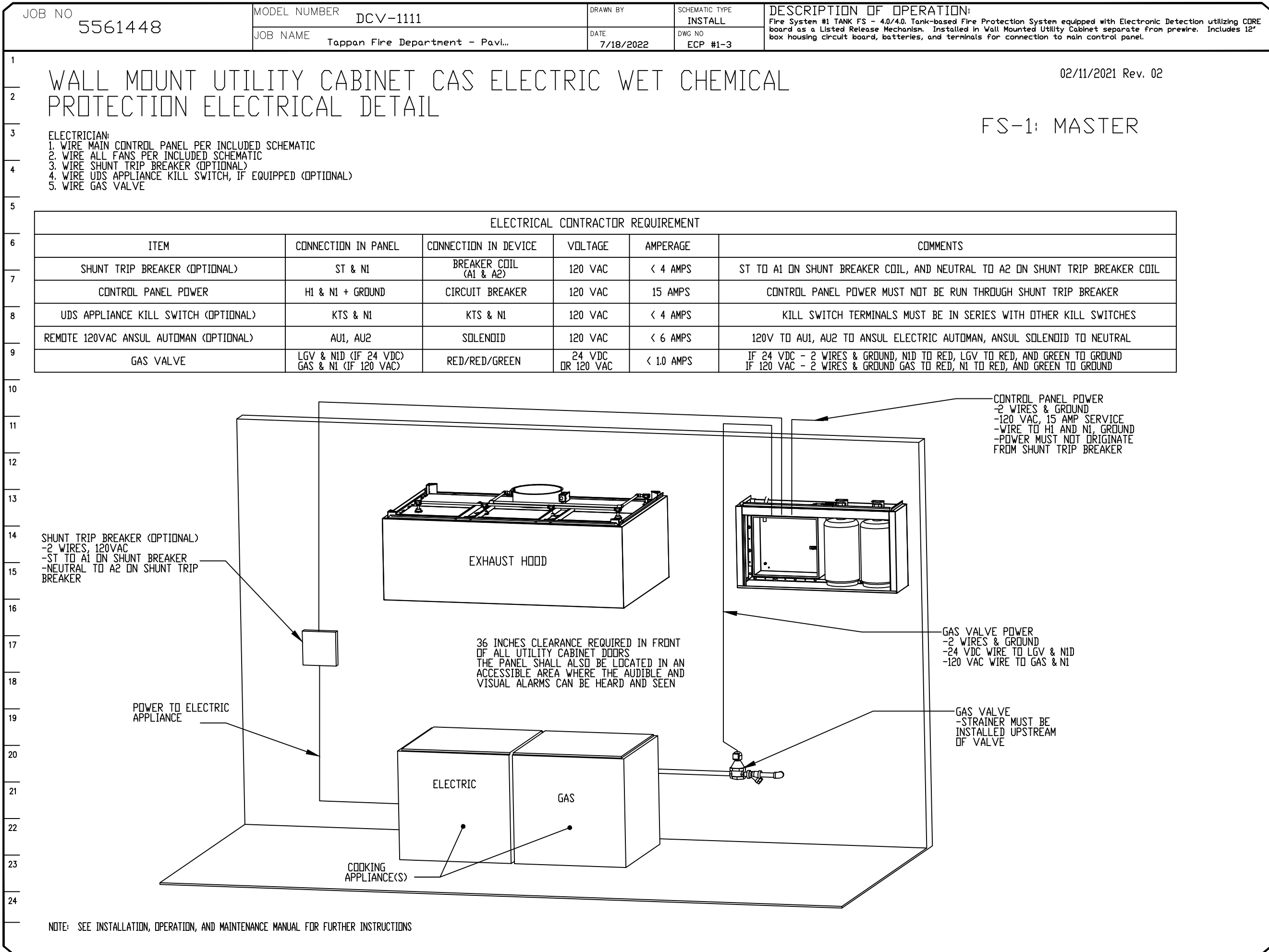
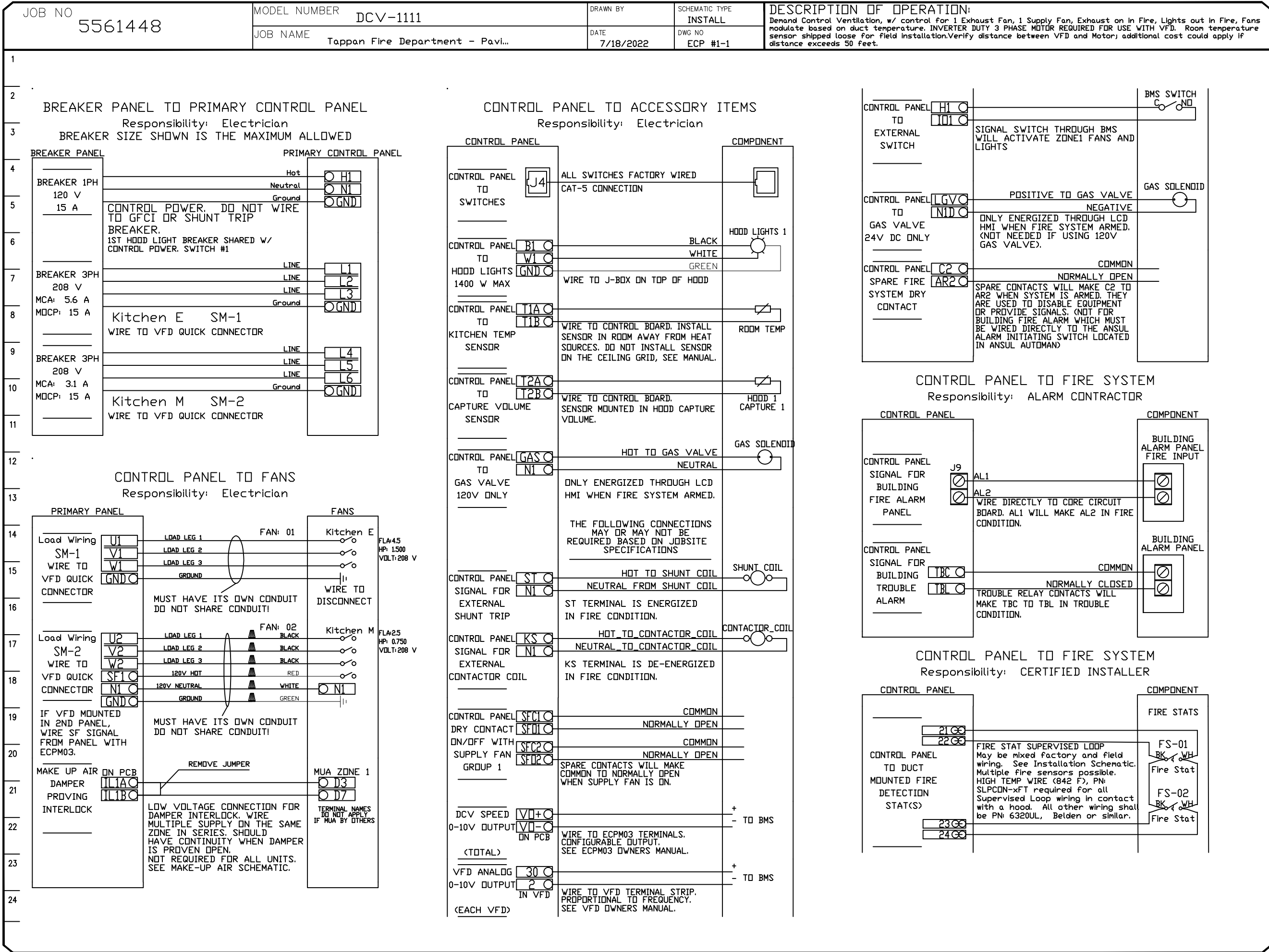
UPPER LEVEL LIGHTING PLAN

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



LOWER LEVEL LIGHTING PLAN

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



DATE: 7.18.22 ISSUE: FOR BID

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TAPPAN FIRE DISTRICT
300 WESTERN HWY S,
TAPPAN NY, 10983

KITCHEN EQUIPMENT POWER
DETAILS

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P-/BID

DRAWING#:

E-8

JOB NO
5561448

MODEL NUMBER
SC-310130MA

DATE
7/18/2022

DRAWN BY
INSTANT

JOB NAME
Tappon Fire Department - Pav...

PHASE # of control for 1 Exhaust Fan, Exhaust on in Fire, Lights on in Fire, Relay Dr/Off by Supply Fan, Fan#0 Dr/Off Thermostatically Controlled, Room temperature sensor shipped loose for field installation, INVERTER BATT 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.

BREAKER PANEL TO PRIMARY CONTROL PANEL

Responsibility: Electrician

SIZE SHOWN IS THE MAXIMUM ALLOWED

CONTROL PANEL TO FANS

Responsibility: Electrician

CONTROL PANEL TO ACCESSORY ITEMS

Responsibility: Electrician

CONTROL PANEL TO FIRE SYSTEM

Responsibility: ALARM CONTRACTOR

CONTROL PANEL TO FIRE SYSTEM

Responsibility: CERTIFIED INSTALLER

CONTROL PANEL TO FIRE SYSTEM

Responsibility: CERTIFIED INSTALLER

JOB NO

5561448

MODEL NUMBER

SC-310110MA

JOB NAME

Toppan Fire Department - Pavl.

DRAWN BY

7/18/2002

SCHEMATIC TYPE

INSTALL

DESCRIPTION OF OPERATION

Fire System R2 TANK FS - 42/42 Tank-based Fire Protection System equipped with Electronic Detection utilizing COBE board as a Listed Release Mechanism. Installed in Utility Cabinet separate from preme. Includes 12" box housing circuit board, batteries, and terminals for connection to main control panel.

02/10/2021 Rev. 2

FS-2: MASTER

TANK PROTECTION ELECTRICAL DETAIL

ELECTRICIAN

1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC

2. WIRE ALL FANS PER INCLUDED SCHEMATIC

3. WIRE SHUNT TRIP BREAKER (OPTIONAL)

4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)

5. WIRE GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & NI	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & NI	KTS & NI	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AU1, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LEV & NID (IF 24 VDC) GAS & NI (IF 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.0 AMPS	IF 24 VDC - 2 WIRES & GROUND NID TO RED, LEV TO RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND GAS TO RED, NI TO RED, AND GREEN TO GROUND

SHUNT TRIP BREAKER (OPTIONAL)

2 WIRES, 120VAC

ST TO A1 ON SHUNT BREAKER

NEUTRAL TO A2 ON SHUNT TRIP BREAKER

POWER TO ELECTRIC APPLIANCE

EXHAUST HOOD

36 INCHES CLEARANCE REQUIRED IN FRONT OF ALL UTILITY CABINET DOORS. THE PANEL SHALL ALSO BE LOCATED IN AN ACCESSIBLE AREA WHERE THE AUDIBLE AND VISUAL ALARMS CAN BE HEARD AND SEEN

CONTROL PANEL POWER

2 WIRES & GROUND

120 VAC, 15 AMP SERVICE

WIRE TO H1 AND N1 GROUND

POWER MUST NOT ORIGINATE FROM SHUNT TRIP BREAKER

GAS VALVE POWER

2 WIRES & GROUND

24 VDC WIRE TO LEV & NID

120 VAC WIRE TO GAS & NI

GAS VALVE STRAINER MUST BE INSTALLED UPSTREAM OF VALVE

ELECTRIC

GAS

COOKING APPLIANCE(S)

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO 5561448	MODEL NUMBER SC-311010MA	DRAWN BY [Blank]	Schematic Type INSTALL	DESCRIPTION OF OPERATION: Fire System #2 Tank FS = 42/40-Tank-based Fire Protection System equipped with Electronic Detection utilizing Co board as a Listed Response Mechanism. Installed in Hood Sissy Cabinet separate from prewire. Includes 12" box housing circuit boards, batteries, and terminals for connection to main control panel.
JOB NAME Tappan Fire Department - Pavi..	DATE 7/18/2022	ECP No. #P-3		

TANK PROTECTION LOW-VOLTAGE DETAIL

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ALARM CONTRACTOR:
 1. WIRE MANUAL ACTUATION DEVICES, REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
 2. COMPLETE FINAL HOOKUP OF SYSTEM
 3. VERIFY FINAL FIRE SYSTEM TEST

ALARM CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	101 AND 104 102 AND 103	1 & 2	24 VDC	< 10 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 102 AND 103 WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 101 AND 104 WIRE HOOD 101 TO 104 AND 102 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED IF SURFACE MOUNTED, USE COVER FROM PST-SSB18
REMOTE FIRESTAT SENSOR(S)	21 AND 24 22 AND 23	BLACK AND WHITE	24 VDC	< 10 AMPS	WIRE FIRE SENSOR WHITE WIRES BETWEEN HOOD CORE PANEL TERMINALS 22 AND 23 WIRE FIRE SENSOR BLACK WIRES BETWEEN HOOD CORE PANEL TERMINALS 21 AND 24 HIGH TEMP (842°F) #16VW4427 (WHITE) & #16VW4427B (BLACK) OR SIMILAR ONLY IF RAN OVER TOP OF HOOD OTHERWISE BELDEN B6320UL OR SIMILAR PLENUM RATED WIRE- SEE FIGURE 1
FIRE ALARM CONTACT	AL1, AL2	VARIES	50V MAX (AC/DC)	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	ILA, ILB, ILC	ILA, ILB, ILC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM (1) ILA, TO CORE SYSTEM (2) ILA CORE SYSTEM (1) ILB, TO CORE SYSTEM (2) ILB CORE SYSTEM (1) ILC, TO CORE SYSTEM (2) ILC USE BELDEN BB760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TDK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<10 AMPS	TYPICAL CONNECTION CATS CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION

FIRE ALARM CONTACT
 -2 WIRES WIRED TO NORMALLY OPEN CONTACTS (CLOSERS IN FIRE CONDITION)
 -CORE CONTROL PANEL AL1 AND AL2
 -SEE FIGURE 2

TROUBLE CONTACT
 -2 WIRES TO NORMALLY OPEN CONTACTS (CLOSES IN TROUBLE CONDITION)
 -CORE PANEL TERMINALS TBL AND TBC
 -SEE FIGURE 4

SUPERVISED LOOP
 -4 WIRES, 24VDC CONNECT BLACK WIRES BETWEEN 21 AND 24 IN PANEL, CONNECT WHITE OR RED WIRES BETWEEN 22 AND 23 IN PANEL
 -ADDITIONAL FIRESTATS, WIRE IN SUPERVISED LOOP
 -USE HIGH TEMP (842°F) #16VW4427 (WHITE) & #16VW4427B (BLACK) ONLY IF RAN OVER TOP OF HOOD OTHERWISE BELDEN B6320UL OR SIMILAR PLENUM RATED WIRE
 -SEE FIGURE 1

36 INCHES CLEARANCE REQUIRED IN FRONT OF ALL UTILITY CABINET DOORS
 THE PANEL SHALL ALSO BE LOCATED IN AN ACCESSIBLE AREA WHERE THE AUDIBLE AND VISUAL ALARMS CAN BE HEARD AND SEEN

EXHAUST HOOD

MANUAL ACTUATION DEVICE
 10 TO 20 FEET FROM HOOD LOCATED NEAR POINT OF EGRESS FROM HOOD

FIRE ALARM PANEL

CORE INTERLOCK
 -2 WIRES + SHIELD
 -USE BELDENBB8760 OR SIMILAR WIRE
 -SEE FIGURE 3

CORE COMMUNICATIONS CABLE
 -CATS CABLE
 MUST BE INSTALLED TO A LOCAL AREA NETWORK WITH VALID INTERNET ACCESS VIA ETHERNET SWITCH OR WIRELESS ROUTER

MANUAL ACTUATION DEVICE WIRES
 -4 WIRES, 24VDC WIRE (TERMINAL 1) BETWEEN 102 AND 103
 -WIRE (TERMINAL 2) BETWEEN 101 AND 104
 -ADDITIONAL PULL STATIONS WIRE IN SUPERVISED LOOP
 -USE BELDEN B6320UL OR SIMILAR WIRE
 -SEE FIGURE 2

MANUAL ACTUATION DEVICE PART #STH-SS2431
 PROTECTIVE COVER MUST BE INSTALLED

42 TO 48 INCHES ABOVE FLOOR LEVEL TO CENTER OF PUSH STATION

COOKING APPLIANCE(S)

ELECTRIC GAS

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO 5561448	MODEL NUMBER SC-310110MA	DRAWN BY INSTALL	SCHEMATIC TYPE INSTALL	DESCRIPTION OF OPERATION: Fire System 82 TANK FS - 42/45, Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet separate from prewire. Includes 12" box housing circuit board, batteries, and terminals for connection to main control panel.
JOB NAME Topsan Fire Department - Pavli		DATE 7/10/2022	DWG NO FCP-82-A	

TANK PROTECTION LOW-VOLTAGE FIGURES

02/10/2021 Rev. 17

FS-2: MASTER

WIRING CONNECTIONS FOR FIRESTAT LOOP
FIGURE 1

WIRING CONNECTIONS FOR MANUAL ACTUATION LOOP
FIGURE 1A

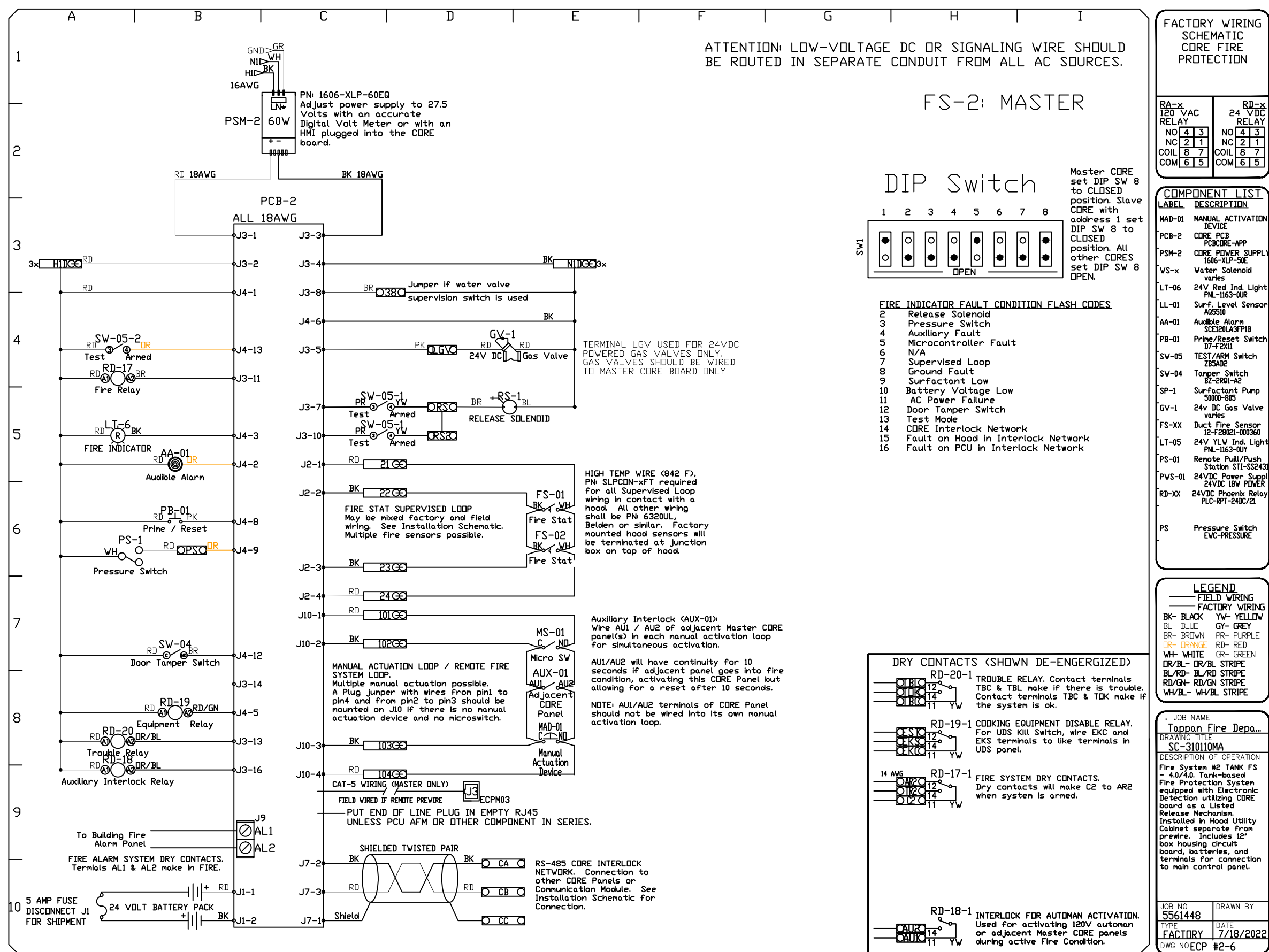
WIRING CONNECTIONS FOR FIRE
ALARM CONTACT
FIGURE 2

WIRING CONNECTIONS FOR CORE INTERLOCK
FIGURE 3

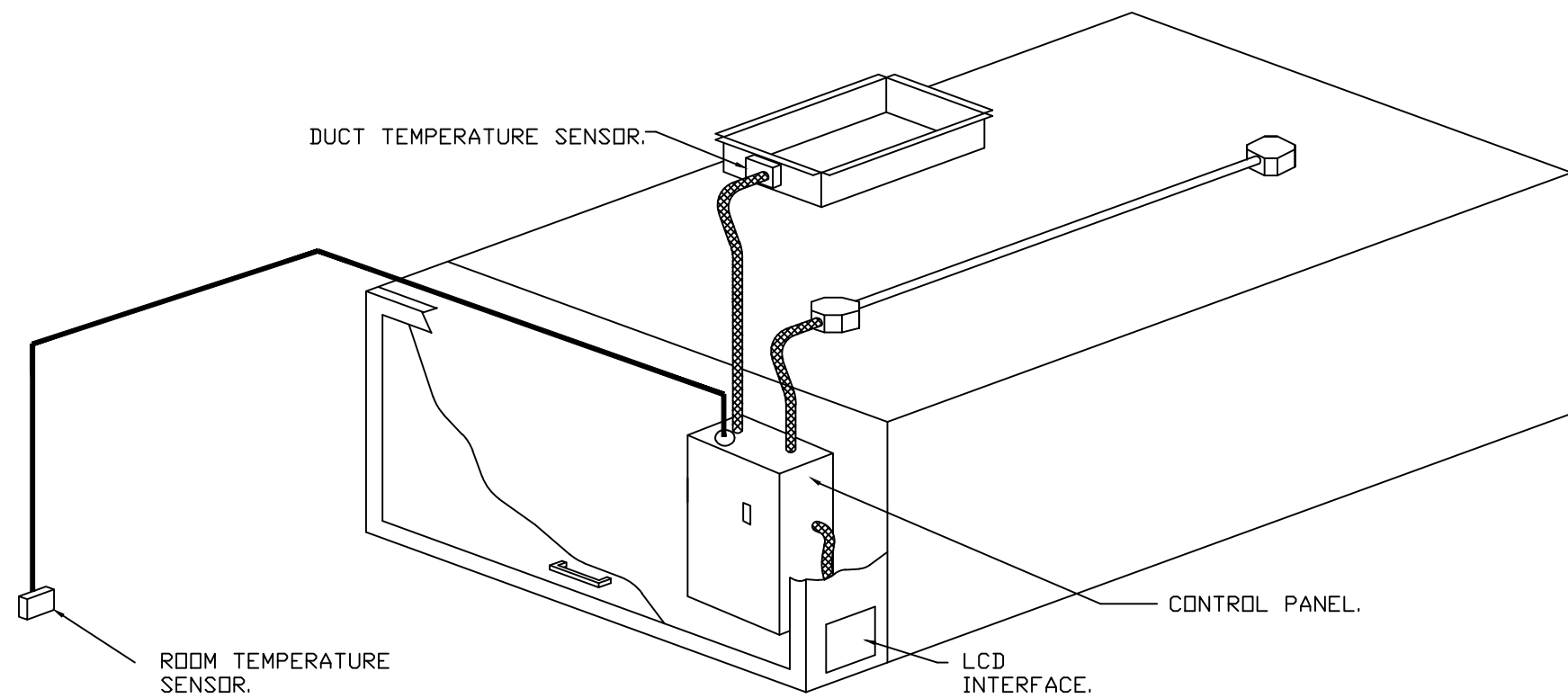
WIRING CONNECTIONS FOR
TROUBLE CONTACT
FIGURE 4

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS



- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURE SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDs) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDs BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
 - A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
 - B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
 - C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
 - G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDs.



TYPICAL HOOD CONTROL PANEL INSTALLATION

- THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:
 - AUTOMATIC: THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.2.8.
 - MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
 - SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
 - OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
 - FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

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KITCHEN HOOD POWER DETAILS

DRAWING#:

