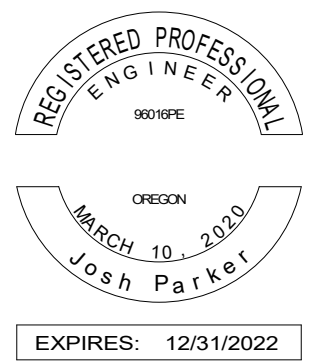






No.	Description	Date
0	PERMIT SET	01/11/21
1	BID SET	02/03/21



**BID SET**

**02/03/21**

**CC20034**

**ELECTRICAL SITE PLAN**

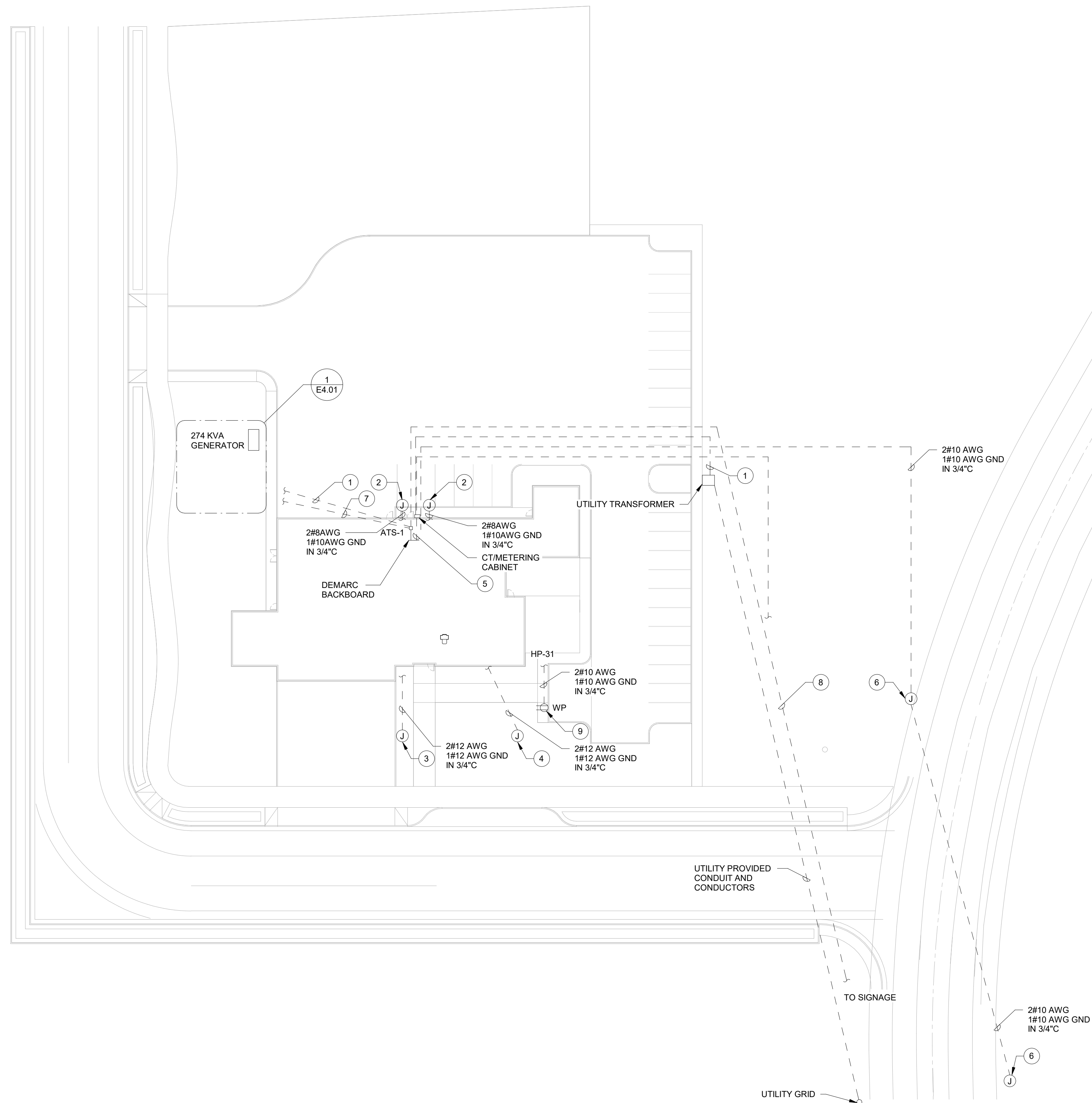
**E1.01**

**GENERAL NOTES**

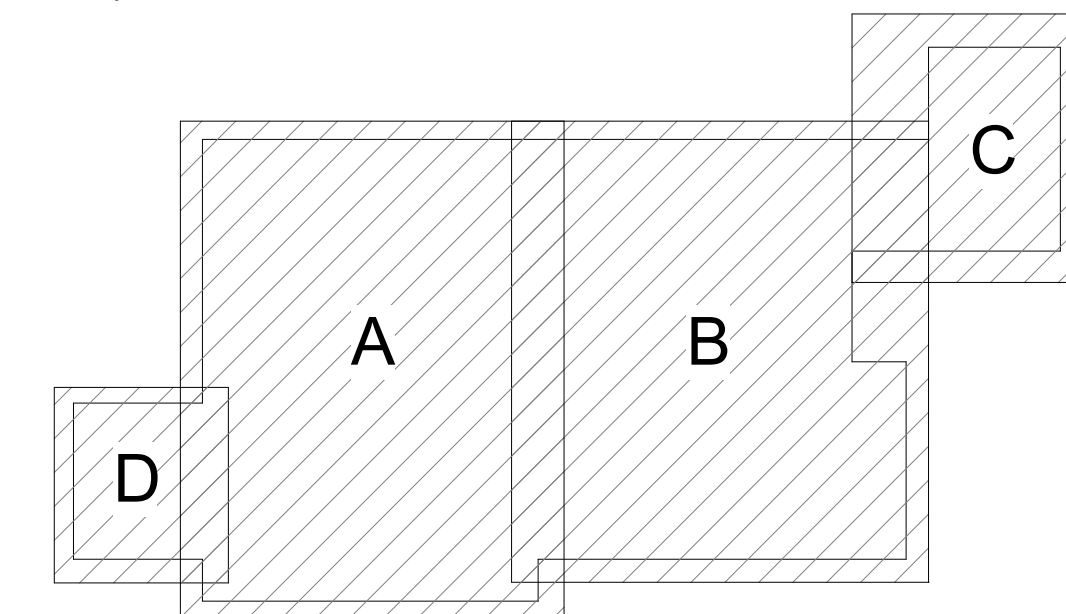
A SEE SHEET E0.01 FOR LEGEND, ABBREVIATIONS, & GENERAL NOTES.

**KEYED NOTES**

- FOR CONDUCTOR AND CONDUIT SIZES REFER TO DRAWING E6.01.
- PROVIDE POWER TO CAR CHARGING OUTLETS AS SHOWN. CONNECT CHARGER CIRCUITS TO PANEL HP CIRCUIT 32,34 & 36,38.
- PROVIDE POWER TO FLAGPOLE AS SHOWN. CONNECT FLAGPOLE CIRCUIT TO PANEL HP CIRCUIT 21.
- PROVIDE POWER TO LIFE JACKET BOARD AS SHOWN. CONNECT LIFE JACKET BOARD CIRCUIT TO PANEL HP CIRCUIT 23.
- PROVIDE (3) 1" CONDUITS AND TERMINATE INTO EXISTING CENTURYLINK, ALYRICA, LS NETWORKS AND XFINITY PEDESTALS. COORDINATE ALL WORK WITH CENTURYLINK, LS NETWORKS AND XFINITY.
- PROVIDE POWER TO FIRE SIGNAL AS SHOWN. CONNECT FIRE SIGNAL CIRCUIT TO PANEL HP CIRCUIT 25.
- REFER TO 1/E4.01 FOR MORE INFORMATION.
- PROVIDE 1" CONDUIT FOR OPTICOM EMITTER CONTROLS CABLING. CABLING TO ACTIVATE SIGNAGE, COORDINATE WITH OWNER FOR MORE INFORMATION.
- PROVIDE WEATHERPROOF RECEPTACLE IN YARD, COORDINATE FINAL LOCATION WITH OWNER.



Key Plan



Revisions		
No.	Description	Date
0	PERMIT SET	01/11/21
1	BID SET	02/03/21

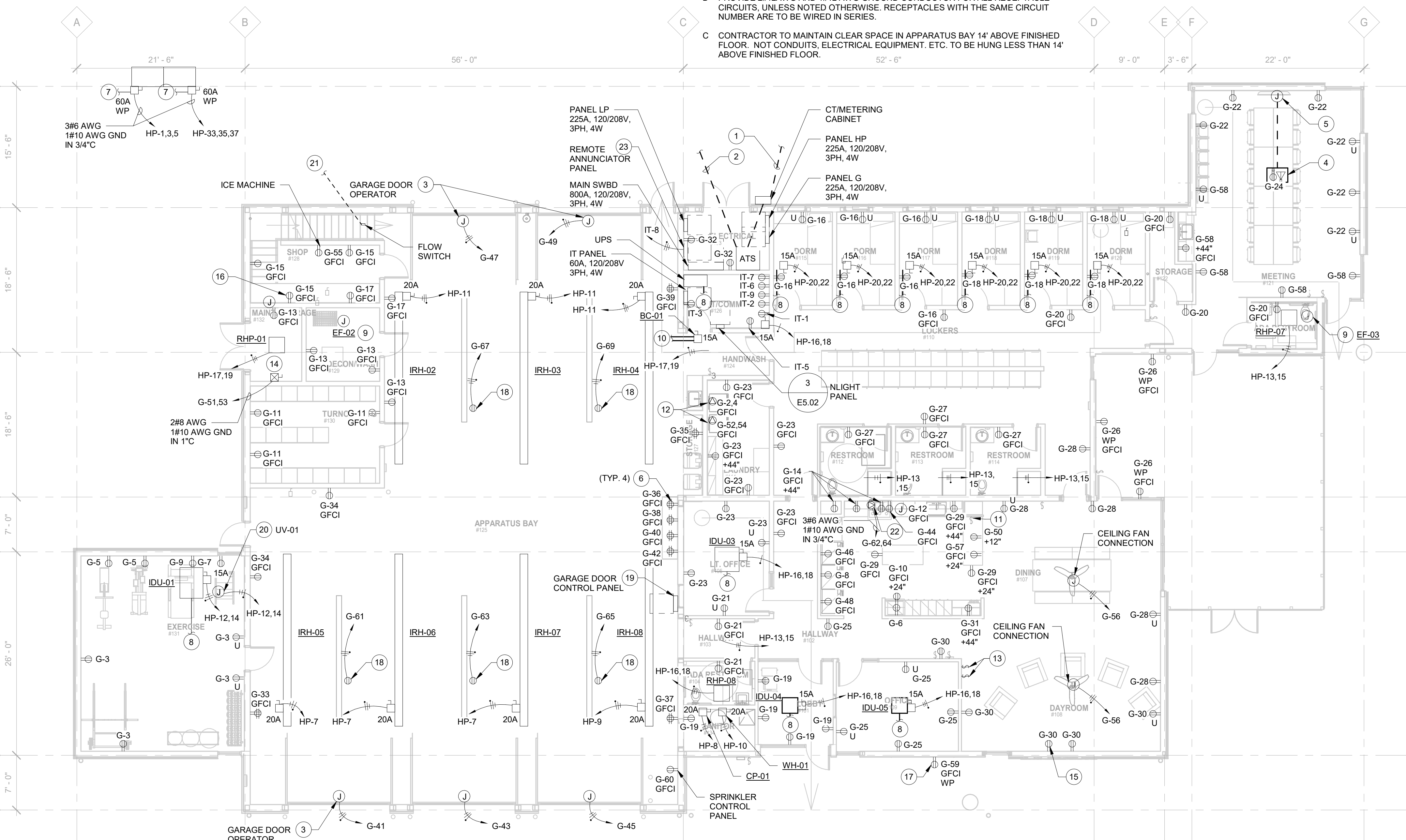


**GENERAL NOTES**

- A SEE SHEET E0.01 FOR LEGEND, ABBREVIATIONS, & GENERAL NOTES.
- B PROVIDE 2#12AWG AND 1#12 AWG GROUND CONDUCTOR FOR ALL RECEPTACLE CIRCUITS, UNLESS NOTED OTHERWISE. RECEPTACLES WITH THE SAME CIRCUIT NUMBER ARE TO BE WIRED IN SERIES.
- C CONTRACTOR TO MAINTAIN CLEAR SPACE IN APPARATUS BAY 14' ABOVE FINISHED FLOOR. NOT CONDUITS, ELECTRICAL EQUIPMENT, ETC. TO BE HUNG LESS THAN 14' ABOVE FINISHED FLOOR.

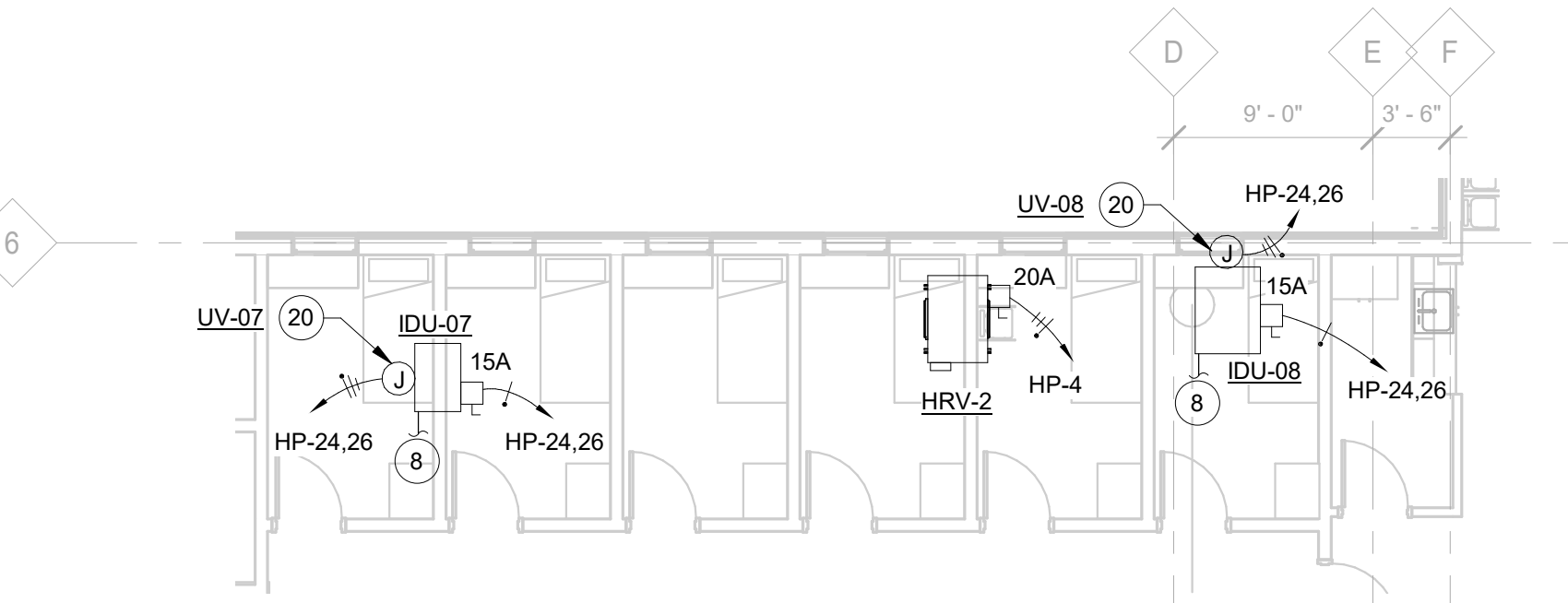
**KEYED NOTES**

- 1 PROVIDE CONDUIT AND CONDUCTORS OF SIZE SHOWN ON E6.01 TO PACIFICORP UTILITY TRANSFORMER.
- 2 PROVIDE CONDUIT AND CONDUCTORS OF SIZE SHOWN ON E6.01 TO MTS-1.
- 3 PROVIDE GARAGE DOOR OPENER WITH INTERIOR PUSH BUTTON OPEN/CLOSE CONTROL AND SAFETY REVERSING SENSORS. REFER TO ARCHITECTURAL SPECIFICATION 08 36 13 FOR MORE INFORMATION. APPARATUS DOOR OPENING TO BE MANUALLY TRIGGERED DURING TAP OUT SYSTEM ALERT. COORDINATE WITH OWNER FOR PUSH BUTTON LOCATIONS. EACH DOOR TO BE ON DIFFERENT REMOTE GARAGE DOOR OPENER FREQUENCIES.
- 4 PROVIDE COMBINATION POWER/DATA FLOOR BOX UNDER CONFERENCE ROOM TABLE.
- 5 PROVIDE 3/4" CONDUIT IN SLAB FROM FLOOR BOX TO DIGITAL WHITE BOARD. PROVIDE CONDUCTORS AS REQUIRED BY WHITE BOARD MANUFACTURER. COORDINATE POWER AND INTERCONNECTION REQUIREMENTS WITH OWNER.
- 6 MOUNT RECEPTACLES AT COUNTERTOP AREA FOR CHARGING OF BATTERIES, HANDHELD RADIOS, AND TOOLS.
- 7 PROVIDE 3/4" CONDUIT FROM ODU-01 CONTROL PANEL TO BRANCH SELECTOR BOX BS-1 FOR CONTROLS CABLING. REFER TO MANUFACTURERS DRAWINGS FOR MORE INFORMATION.
- 8 PROVIDE 3/4" CONDUIT FROM IDU TO BRANCH SELECTOR BOX BC-01 FOR CONTROLS CABLING. REFER TO MANUFACTURERS DRAWINGS FOR MORE INFORMATION.
- 9 PROVIDE WALL SWITCH FOR EXHAUST FAN AND CONNECT TO LOCAL RECEPTACLE CIRCUIT.
- 10 PROVIDE 3/4" CONDUIT FROM BRANCH SELECTOR BOX BC-01 TO EACH IDU FOR CONTROLS CABLING. REFER TO MANUFACTURERS DRAWINGS FOR MORE INFORMATION.
- 11 PROVIDE WALL SWITCH AND INTERCONNECTING CONDUCTORS FOR SINK DISPOSAL MOTOR.
- 12 PROVIDE NEMA L6-15 RECEPTACLE FOR WASHING MACHINE AT LOCATION SHOWN.
- 13 PROVIDE WALL SWITCH AND INTERCONNECTING CONDUCTORS FOR DAYROOM CEILING FANS.
- 14 PROVIDE NEMA SIZE 1 FULL VOLTAGE STARTER FOR 5 HP AIR COMPRESSOR AT LOCATION SHOWN. COORDINATE FINAL COMPRESSOR LOCATION WITH OWNER.
- 15 PROVIDE RECEPTACLE FOR DAYROOM TELEVISION, COORDINATE FINAL MOUNTING HEIGHT WITH OWNER.
- 16 PROVIDE SIX OUTLET WIREMOLD PLUG STRIP ABOVE COUNTER AT LOCATION SHOWN.
- 17 PROVIDE WEATHERPROOF GFCI RECEPTACLES ON EXTERIOR OF BUILDING FOR CHRISTMAS LIGHTS. CONFIRM FINAL LOCATIONS AND QUANTITY WITH OWNER.

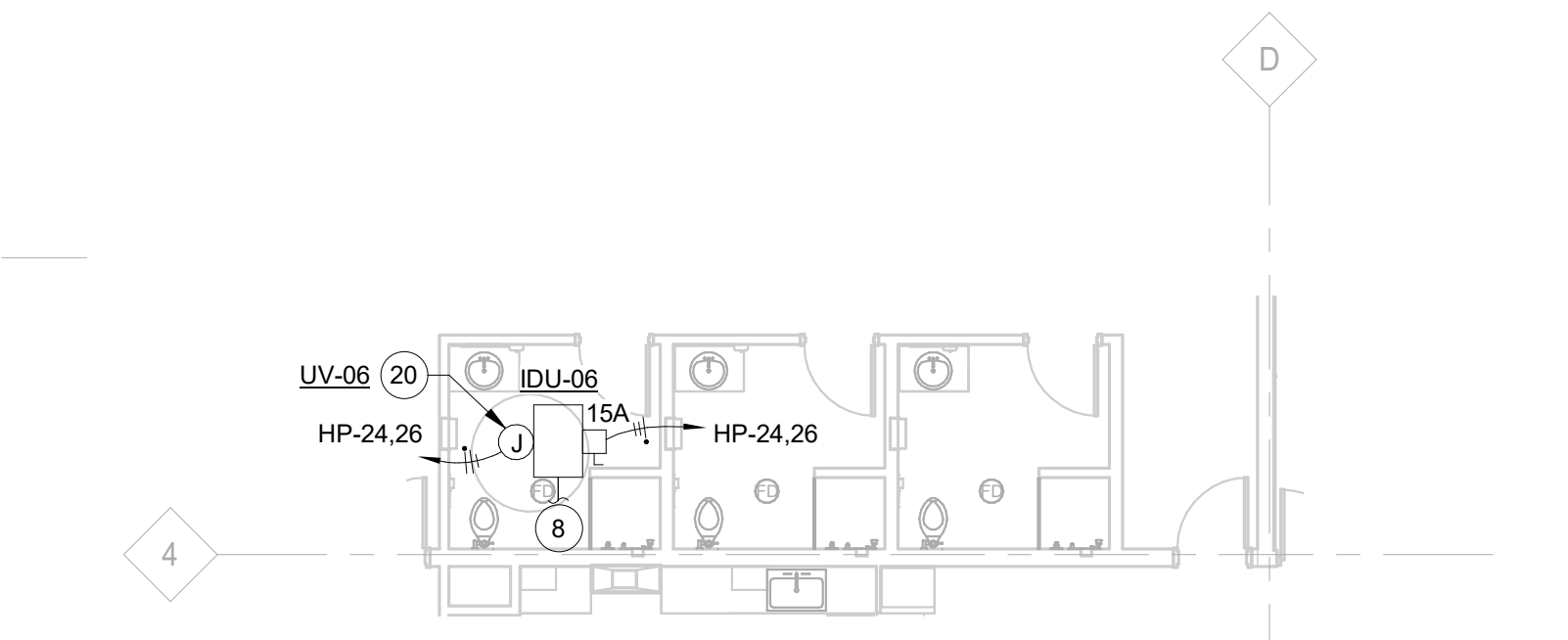


**1** NORTH  
**ELECTRICAL POWER GROUND FLOOR PLAN - WEST**  
1/8" = 1'-0"

**2** **ELECTRICAL POWER MEZZANINE FLOOR PLAN**  
1/8" = 1'-0"



**3** **ELECTRICAL ABOVE DORM AREA PLAN**  
1/8" = 1'-0"

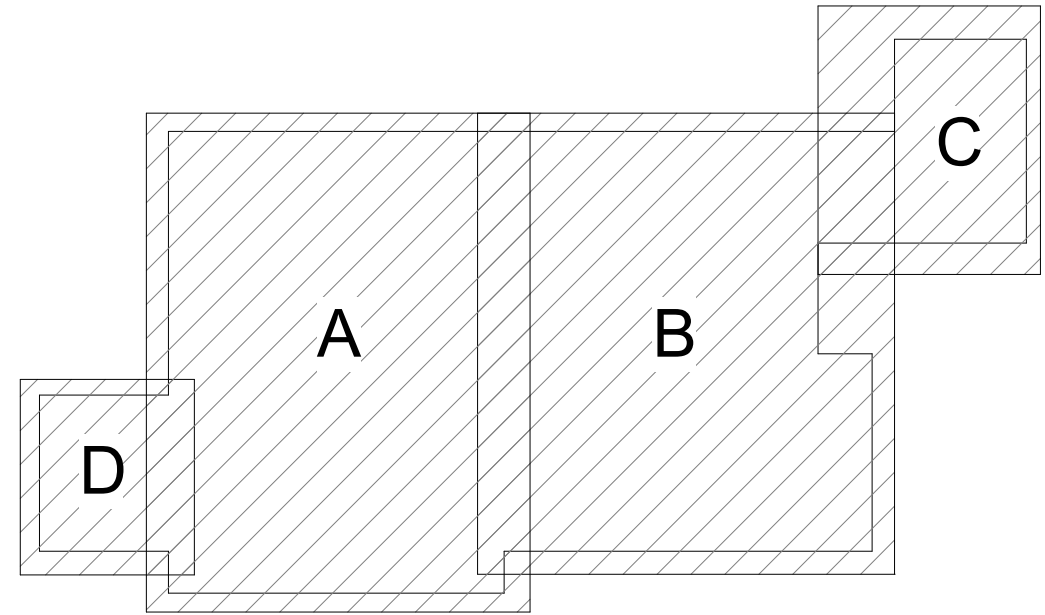


**4** **ELECTRICAL ABOVE RESTROOM AREA PLAN**  
1/8" = 1'-0"

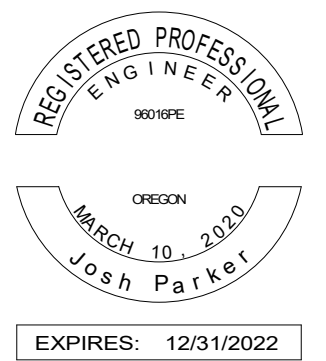
**KEYED NOTES (CONT.)**

- 18 PROVIDE POWER TO ELECTRICAL REEL RECEPTACLES IN APPARATUS BAY. COORDINATE FINAL MOUNTING AND POWER REQUIREMENTS WITH OWNER.
- 19 PROVIDE GARAGE DOOR CONTROL PANEL AT LOCATION SHOWN. CONTROL PANEL TO ALLOW USER TO OPEN ALL GARAGE DOORS AT TOUCH OF A BUTTON. PROVIDE CONTROLS CONDUIT AND WIRING AS NEEDED FOR A COMPLETE OPERATING SYSTEM BETWEEN CONTROL PANEL AND GARAGE DOOR OPENERS. COORDINATE FINAL MOUNTING AND POWER REQUIREMENTS WITH OWNER.
- 20 PROVIDE CONDUIT AND CONDUCTORS TO UV UNIT MOUNTED NEXT TO IDU. UV TO BE ON SAME POWER CIRCUIT AS ASSOCIATED IDU. REFER TO MECHANICAL SHEET M1.01 FOR MORE INFORMATION.
- 21 PROVIDE CONDUIT FOR CONTROL WIRING FROM FLOW SWITCH DRY CONTACT TO WATER CONTROL VALVE. COORDINATE WITH CIVIL.
- 22 PROVIDE NEMA L14-50R 50 AMP, 4 WIRE, 3 POLE RECEPTACLE AT LOCATION SHOWN FOR CONNECTION OF FUTURE ELECTRIC OVEN. COORDINATE FINAL ELECTRICAL REQUIREMENTS WITH OWNER.
- 23 PROVIDE GENERATOR REMOTE ANNUNCIATOR PANEL AND MOUNT IN ELECTRICAL ROOM AS SHOWN. PROVIDE POWER AND CONTROLS WIRING FROM PANEL TO GENERATOR PER MANUFACTURER'S REQUIREMENTS.

Key Plan





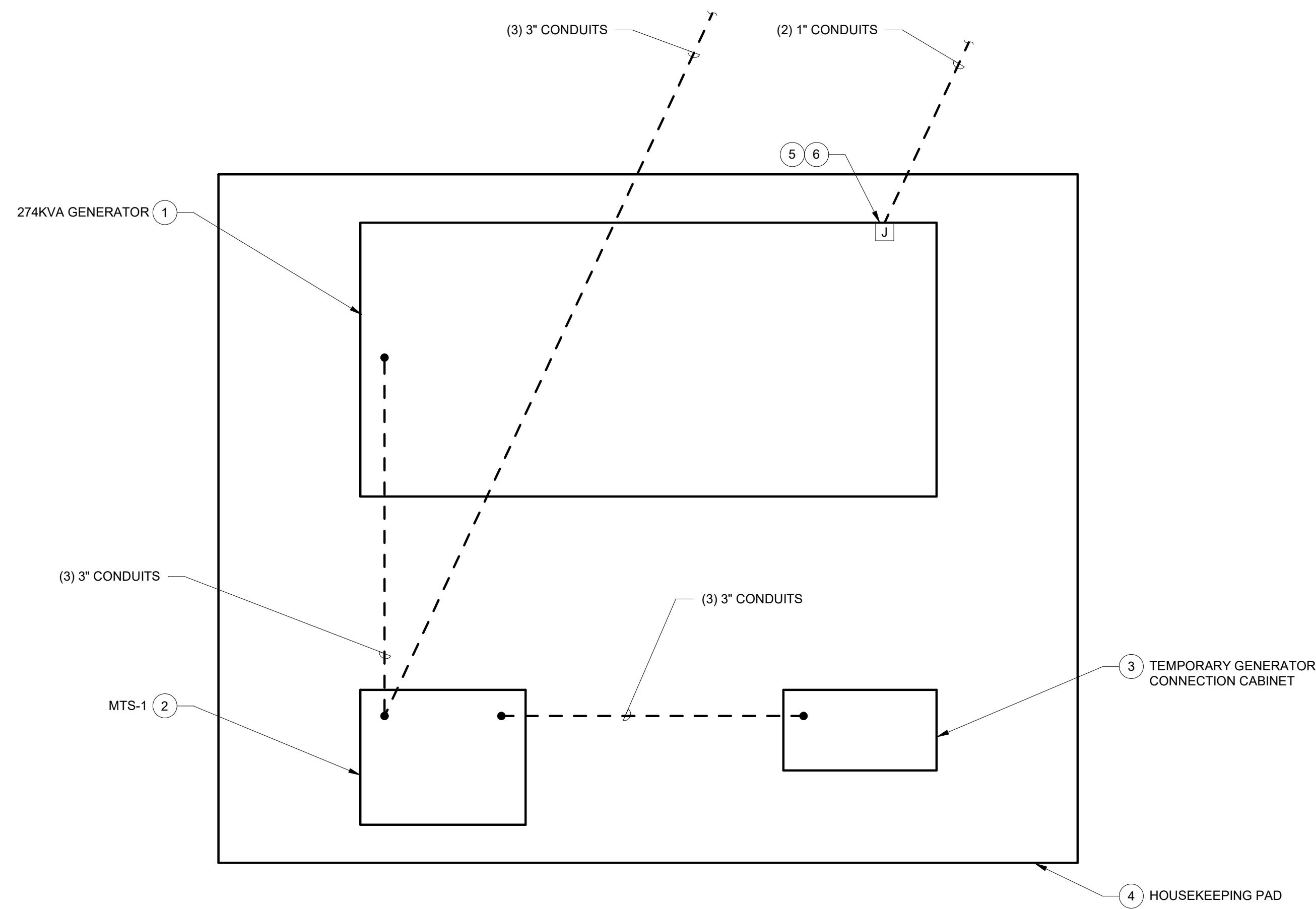


**GENERAL NOTES**

- A SEE SHEET E0.01 FOR LEGEND, ABBREVIATIONS, & GENERAL NOTES.
- B FOR CONDUCTOR SIZES REFER TO ONE-LINE DIAGRAM ON DRAWING E6.01.

**KEYED NOTES**

- 1 PROVIDE 274KVA DIESEL GENERATOR IN WEATHER PROOF, SOUND ATTENUATED EXTERIOR ENCLOSURE AT LOCATION SHOWN. REFER TO E6.01 FOR MORE INFORMATION. PROVIDE HOUSEKEEPING PAD FOR GENERATOR.
- 2 PROVIDE 800A, 4-POLE, 208 VOLT RATED MANUAL TRANSFER SWITCH IN NEMA 3R ENCLOSURE AT LOCATION SHOWN. REFER TO E6.01 FOR MORE INFORMATION. PROVIDE HOUSEKEEPING PAD FOR TRANSFER SWITCH.
- 3 PROVIDE 800A RATED TEMPORARY GENERATOR TERMINATION CABINET IN NEMA 3R ENCLOSURE AT LOCATION SHOWN. REFER TO E6.01 FOR MORE INFORMATION. PROVIDE HOUSEKEEPING PAD FOR CABINET.
- 4 PROVIDE 6" THICK CONCRETE PAD, MINIMUM 3" LARGER THAN UNITS ALL AROUND, #4 AT 12" ON CENTER, EACH WAY. SEE STRUCTURAL NOTES.
- 5 PROVIDE 2#10 AWG AND 1#10 AWG GROUND FOR CONNECTION TO GENERATOR BLOCK HEATER. CONNECT CIRCUIT TO HVAC PANEL CIRCUIT 27.
- 6 PROVIDE 2#4 AWG AND 1#10 AWG GROUND FOR CONNECTION TO GENERATOR BATTERY CHARGER. CONNECT CIRCUIT TO HVAC PANEL CIRCUIT 29.



**1 ELECTRICAL ENLARGED PLAN**  
1/2" = 1'-0"

Project

Consultant

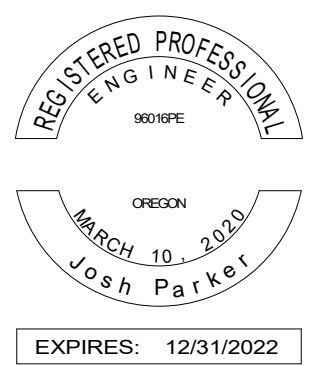


**CONSULTING ENGINEERS**  
Beaverton, OR (503) 645-0176

Revisions

No.	Description	Date
0	PERMIT SET	01/11/21
1	BID SET	02/03/21

Stamp



Issuance

**BID SET**

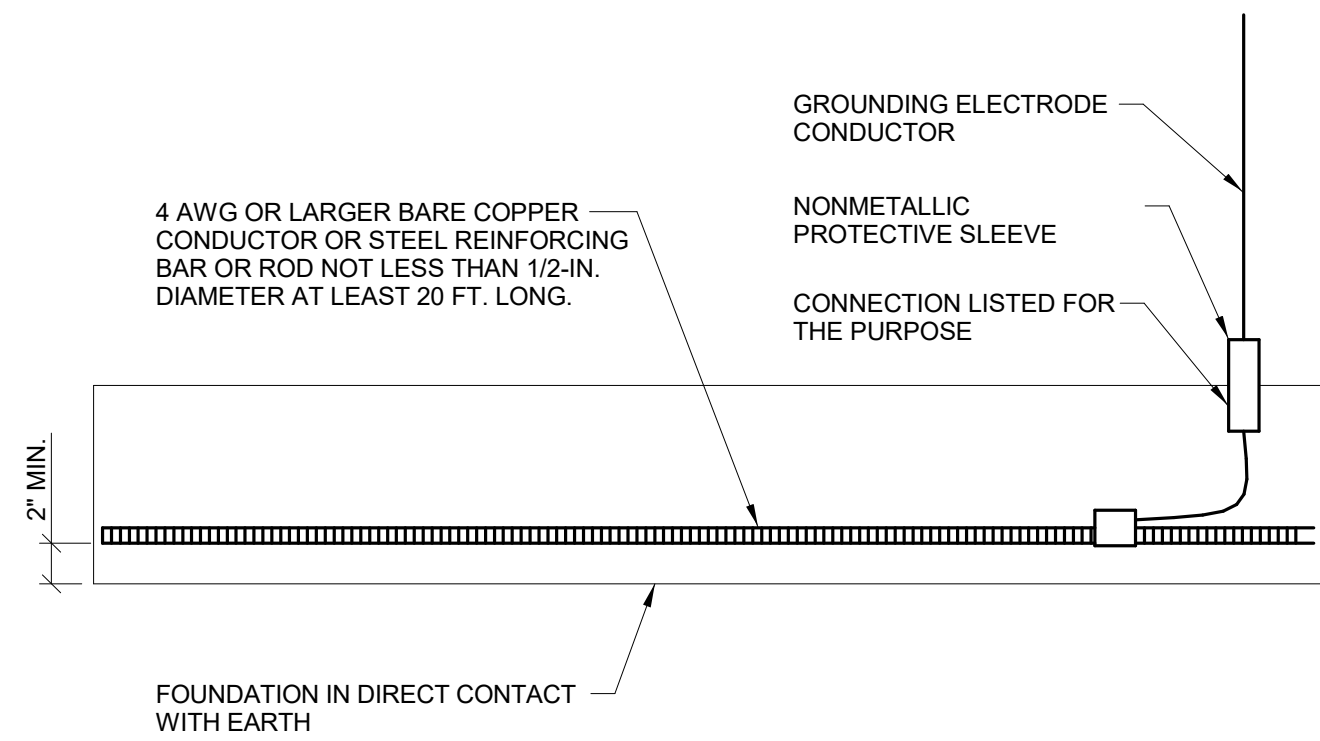
Date  
**02/03/21**

Project Number  
**CC20034**

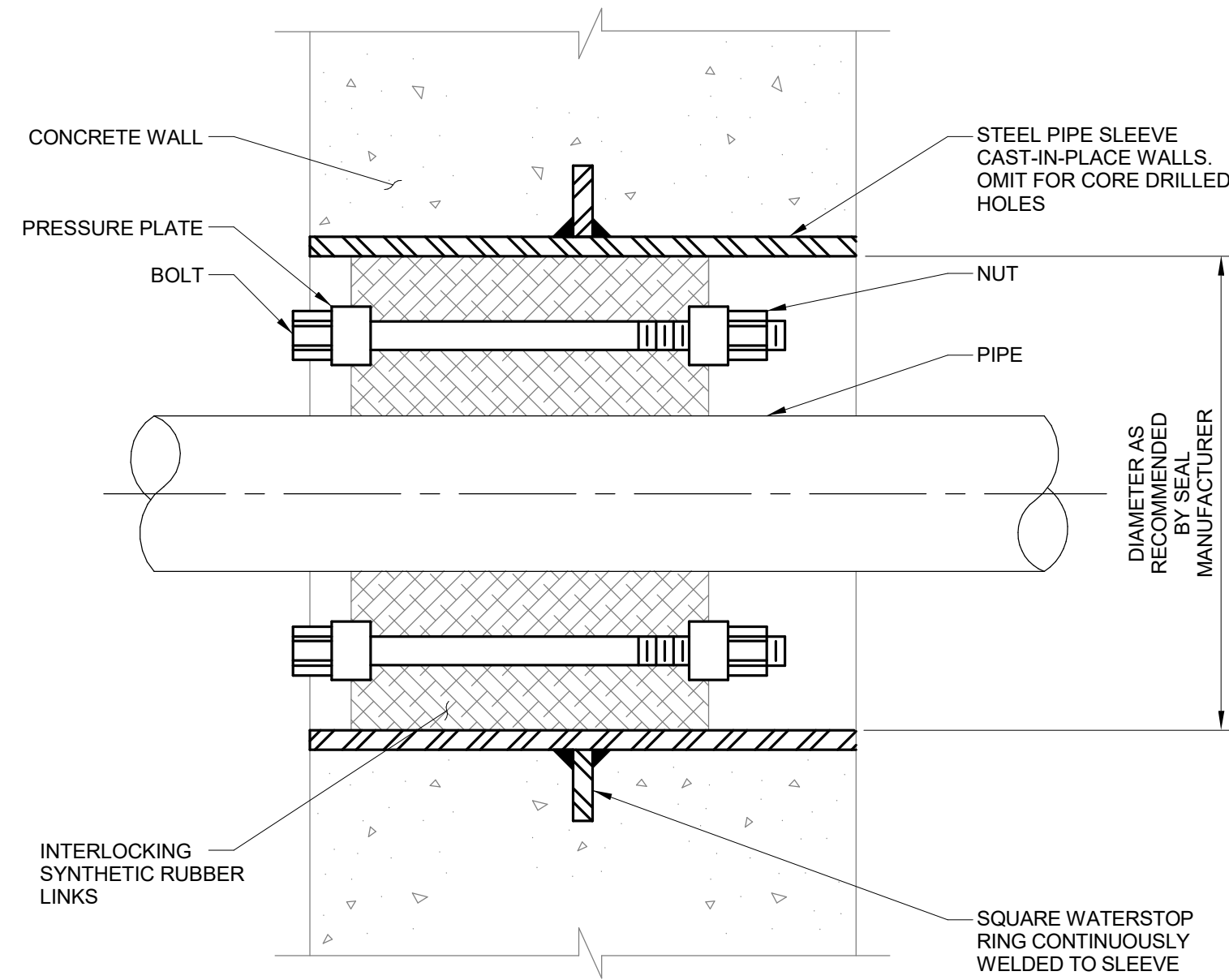
Drawing Title  
**ELECTRICAL  
DETAILS**

Sheet No

**E5.01**

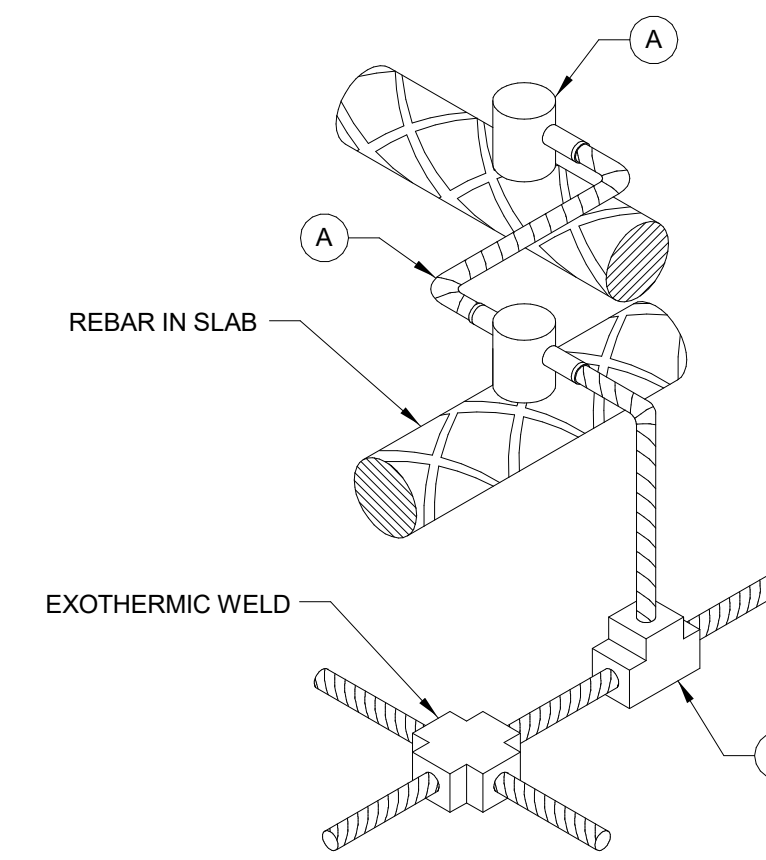


**1 CONCRETE ENCASED ELECTRODE DETAIL**  
NOT TO SCALE



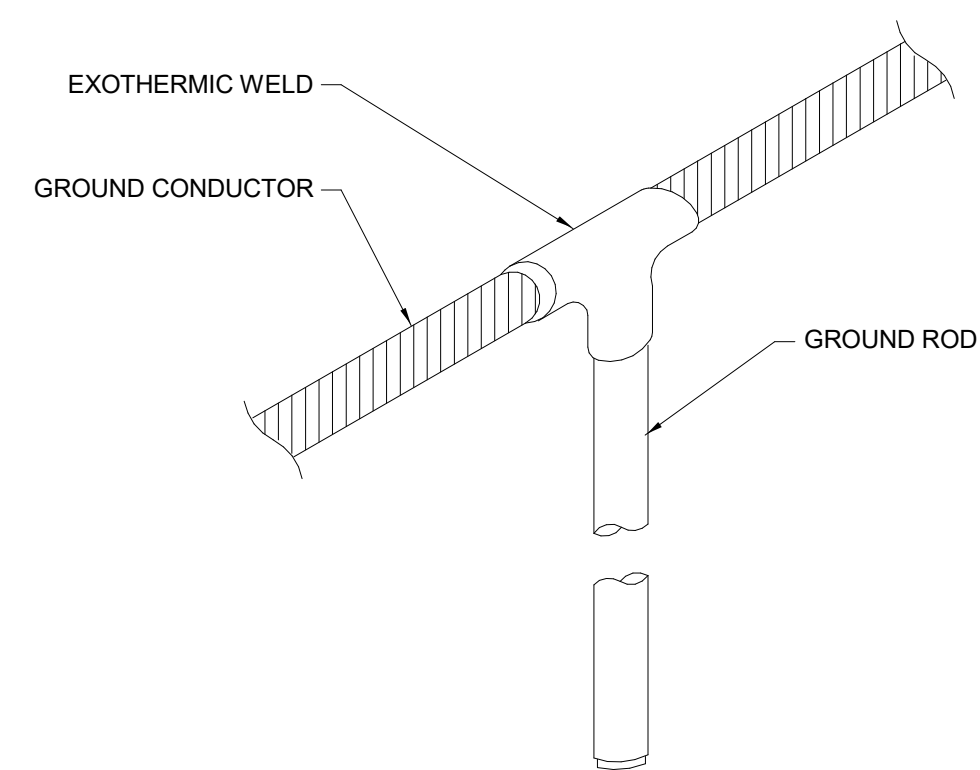
NOTES:  
A FOR SUB GRADE PENETRATIONS DEEPER THAN 5' BELOW ADJACENT FINISH GRADE.

**2 EXTERIOR WALL PENETRATION DETAIL**  
NOT TO SCALE

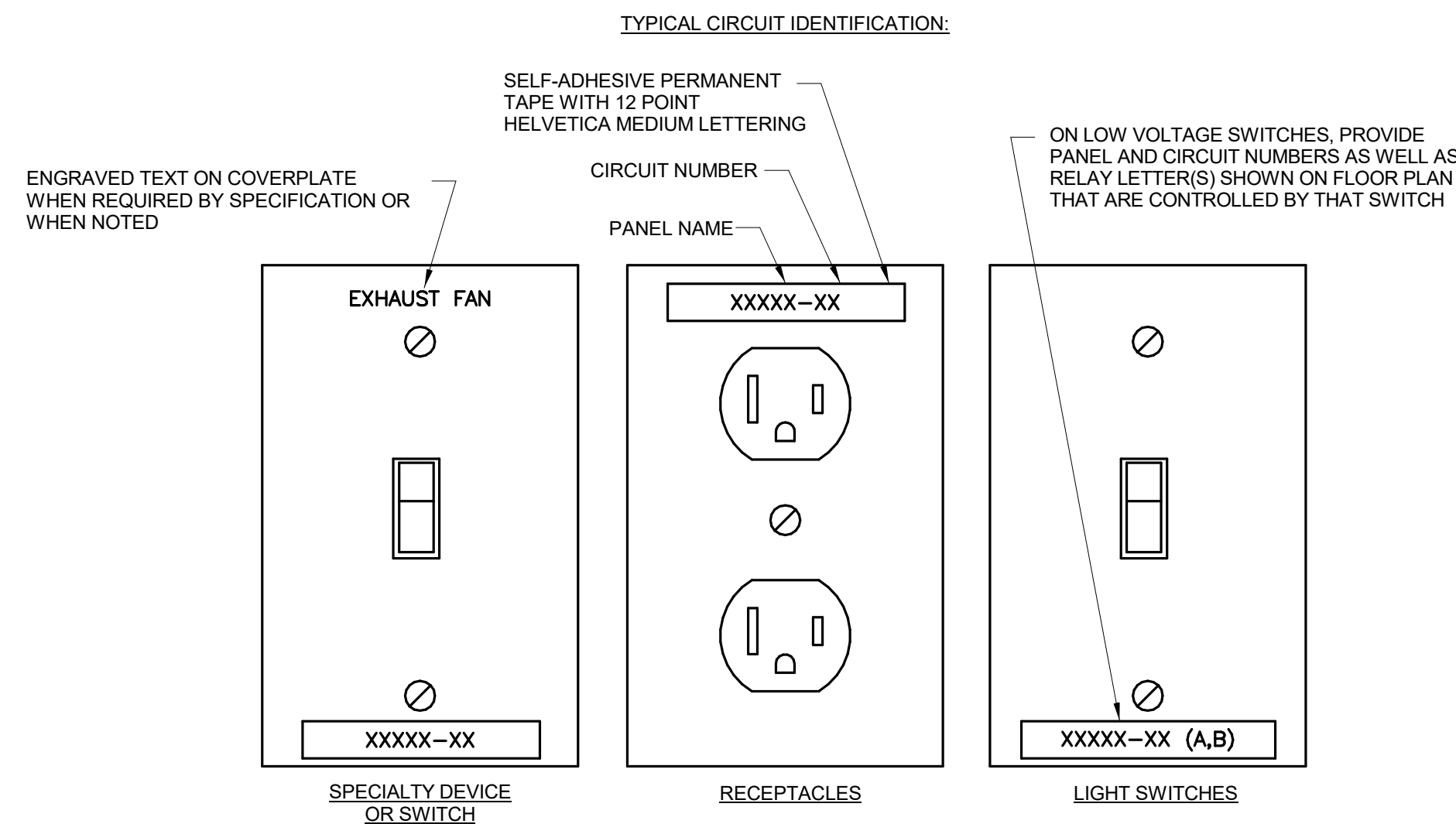


NOTES:  
A INSTALL GROUND CONDUCTOR 3" MIN FROM REBAR AND CONNECT TO REBAR.

**3 GROUND CONDUCTOR BOND TO REBAR DETAIL**  
NOT TO SCALE

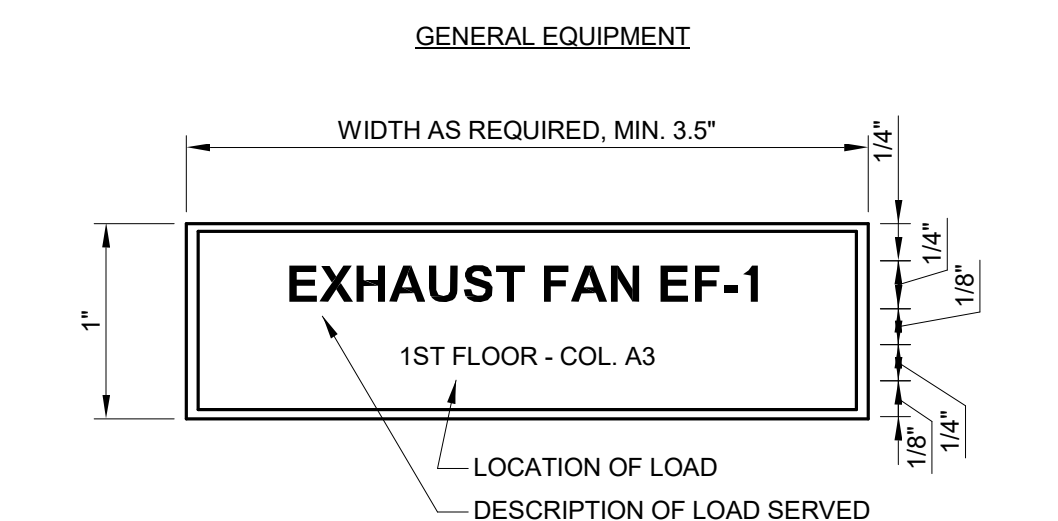
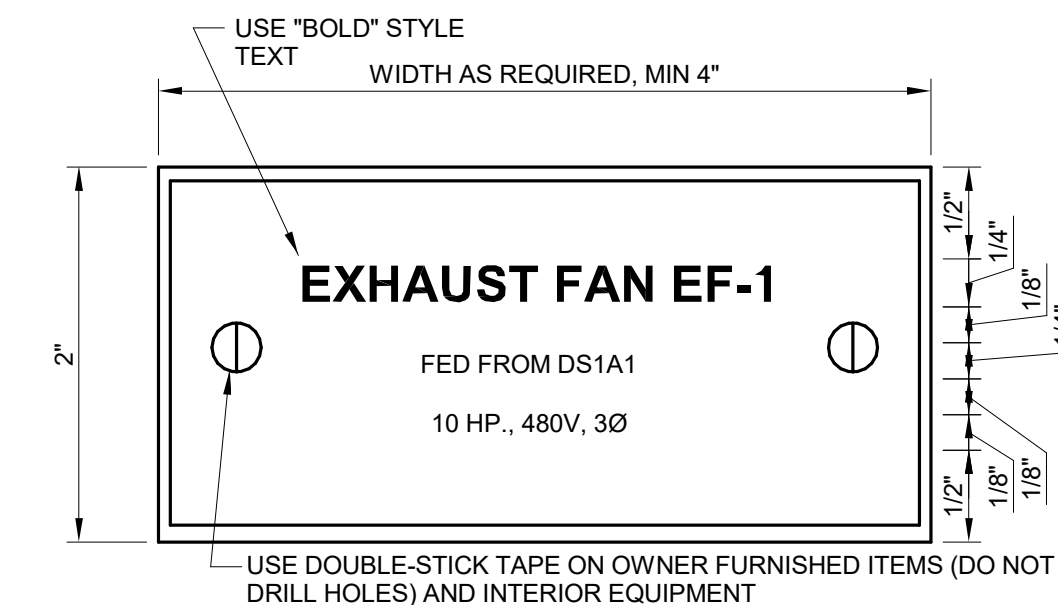


**4 GROUND ROD INSTALLATION DETAIL**  
NOT TO SCALE



NOTES:  
A REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND COLORS OF TAPE REQUIRED FOR DIFFERENT SYSTEMS.  
B TEXT SHOWN ABOVE IS FOR EXAMPLE ONLY. MODIFY TEXT AS REQUIRED TO MATCH INSTALLATION.  
C SIMILARLY LABEL DEVICES IN SURFACE METAL RACEWAYS, POWER POLES, FLOOR BOXES, CONCEALED MULTI-SERVICE POWER BOXES, ETC.  
D PROVIDE ONLY ONE LABEL FOR MIDDLE SWITCH WHERE MULTIPLE SWITCHES ARE GROUPED UNDER COMMON COVERPLATE AND ARE SERVED FROM SAME CIRCUIT. PROVIDE MULTIPLE LABELS IF DIFFERENT CIRCUITS ARE USED.

**5 DEVICE AND SWITCH LABELING DETAIL**  
NOT TO SCALE

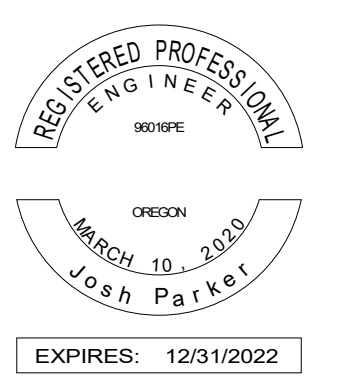


NOTES:  
A SEE DRAWINGS FOR ADDITIONAL NAMEPLATE INFORMATION AND COLORS OF NAMEPLATES FOR DIFFERENT SYSTEMS.  
B TEXT SHOWN ABOVE IS FOR EXAMPLE ONLY. MODIFY TEXT AS REQUIRED TO MATCH EQUIPMENT SPECIFICATIONS.  
C CENTER ALL TEXT HORIZONTALLY.

**6 EQUIPMENT IDENTIFICATION NAMEPLATES DETAIL**  
NOT TO SCALE



No.	Description	Date
0	PERMIT SET	01/11/21
1	BID SET	02/03/21



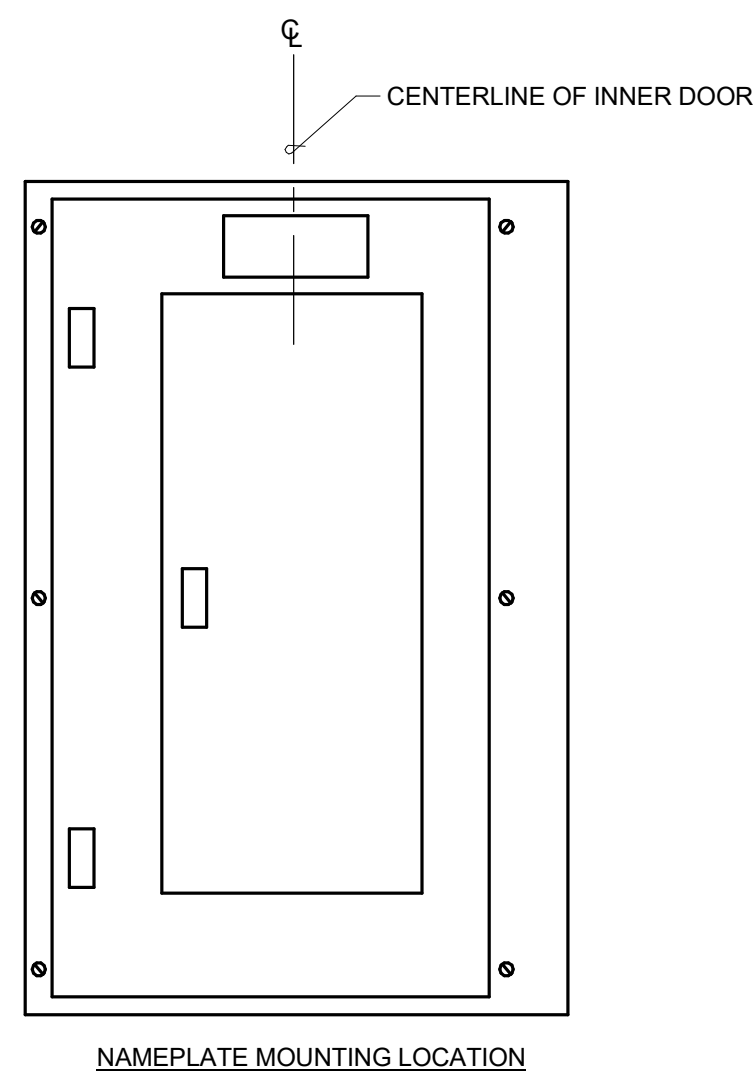
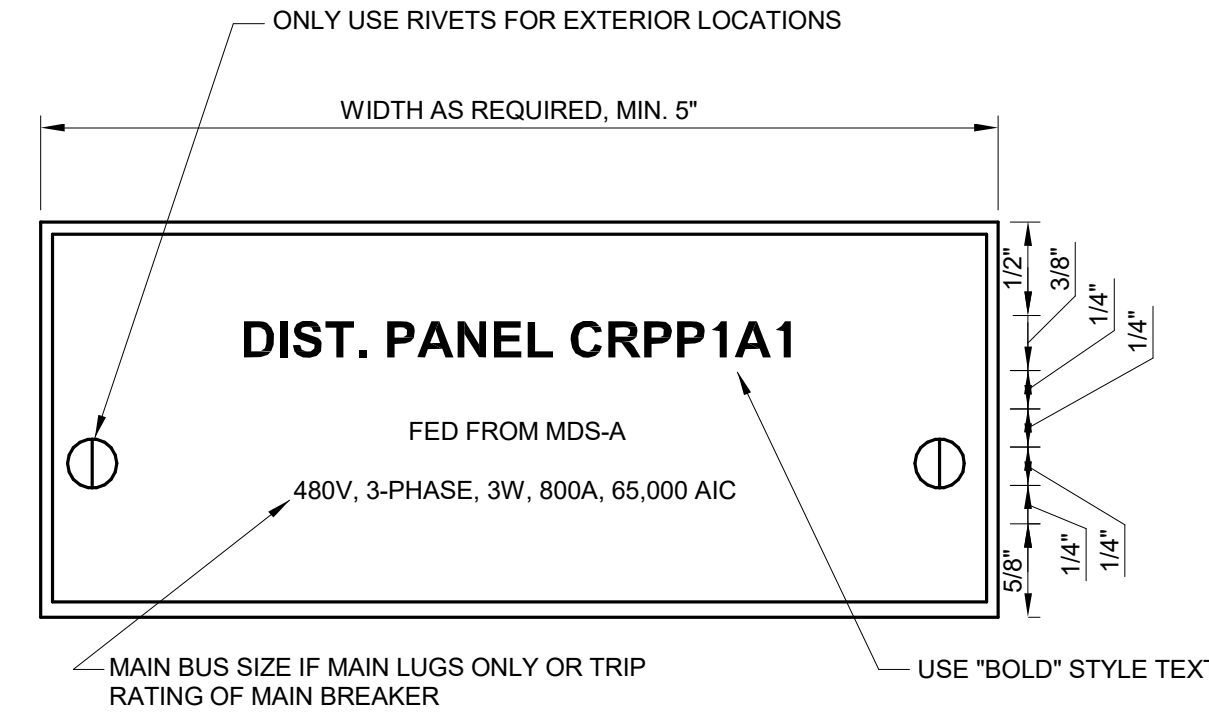
**BID SET**

**02/03/21**

**CC20034**

**ELECTRICAL  
DETAILS**

**E5.02**

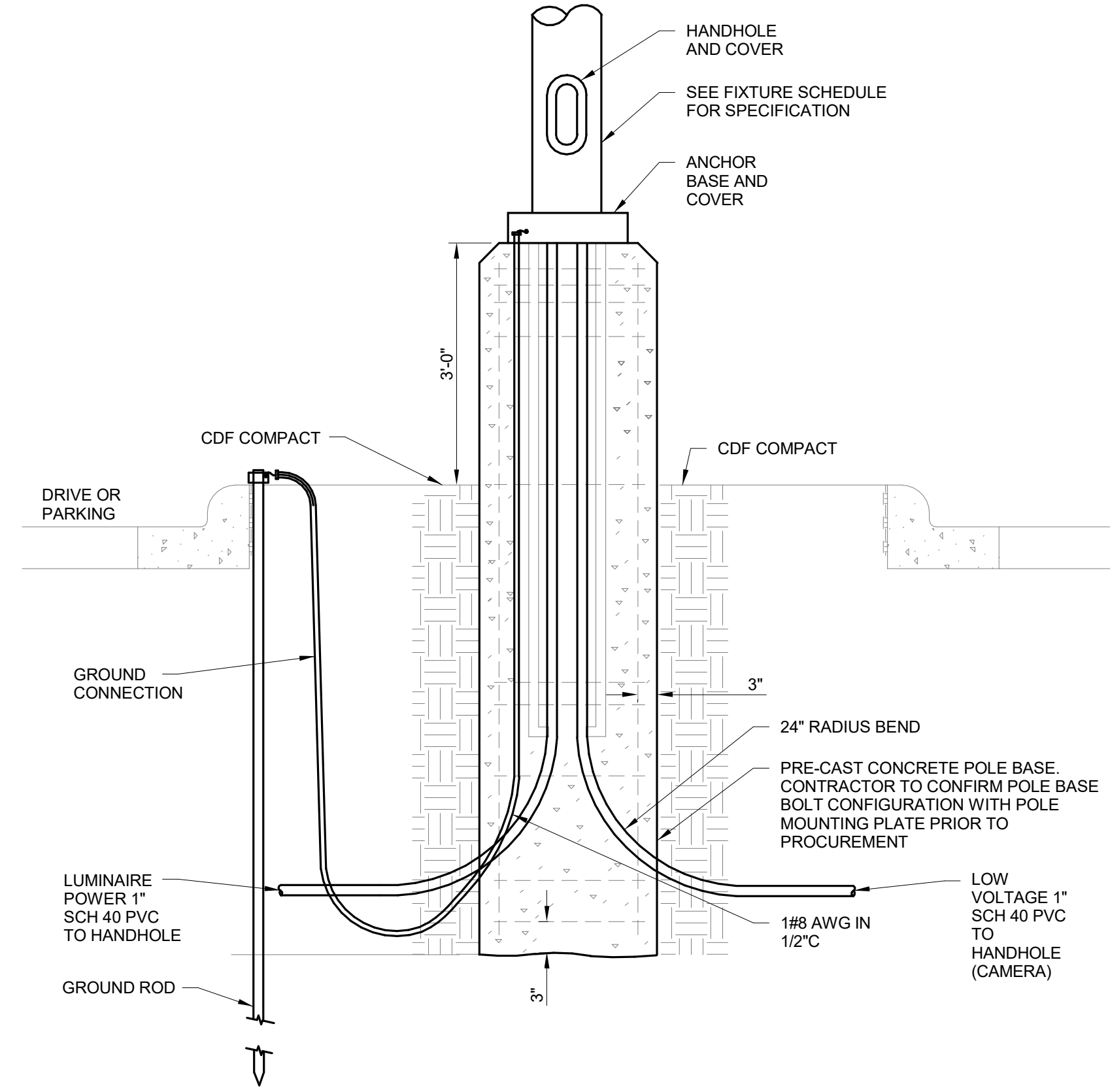


NOTES:

- A SEE DRAWINGS FOR ADDITIONAL NAMEPLATE INFORMATION AND COLORS OF NAMEPLATES FOR DIFFERENT SYSTEMS.
- B PROVIDE ONE NAMEPLATE FOR EACH PANEL OR MCC SECTION. WHERE SECTION NUMBER TWO AND ABOVE ARE WITHIN SAME ROOM AND WITHIN 10' OF EACH OTHER USE THE SMALLER SIZE NAMEPLATE.
- C CENTER ALL TEXT HORIZONTALLY.
- D TEXT SHOWN ABOVE IS FOR EXAMPLE ONLY. MODIFY TEXT AS REQUIRED TO MATCH EQUIPMENT SPECIFICATIONS.

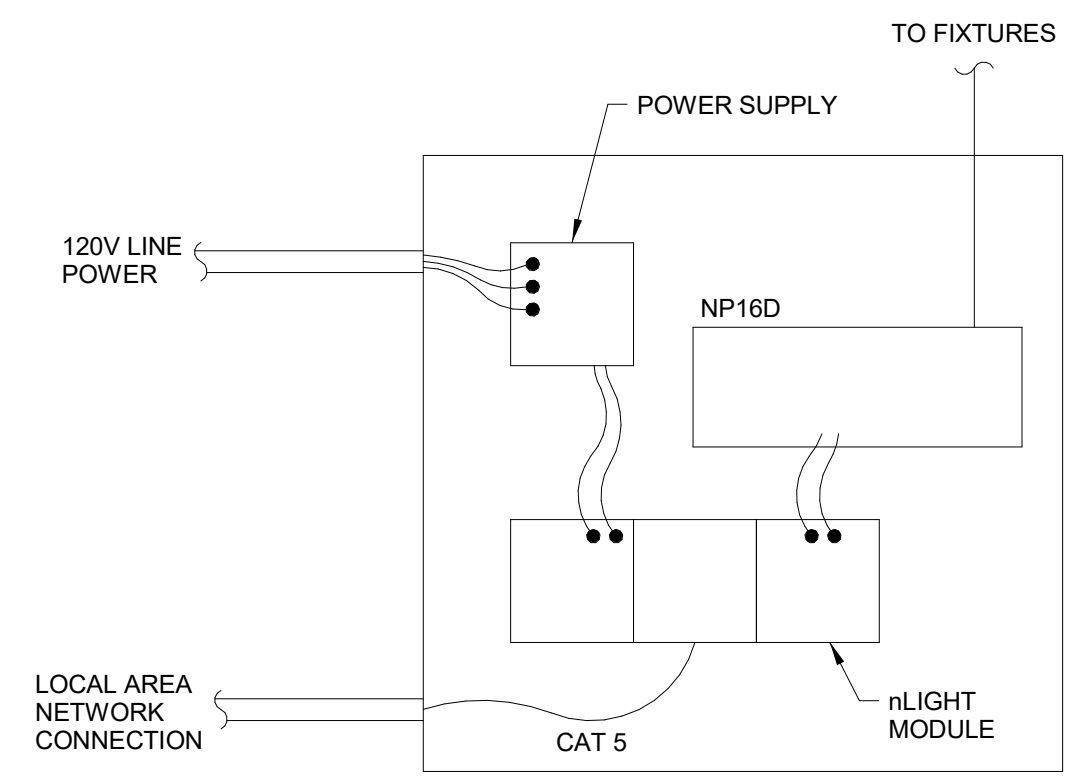
**1 DISTRIBUTION PANEL MOTOR CONTROL CENTER AND BRANCH PANEL NAMEPLATES DETAIL**

1 NOT TO SCALE



**2 ROUND POLE BASE DETAIL - ONSITE LIGHTING**

2 NOT TO SCALE



NOTES:

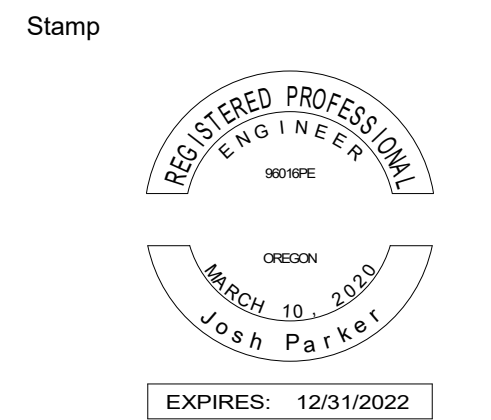
- A NLIGHT CONTROL PANEL LAYOUT IS PRELIMINARY. COORDINATE WITH LIGHTING VENDOR.

**3 NLIGHT LIGHTING CONTROL PANEL**

3 NOT TO SCALE

Revisions

No.	Description	Date
0	PERMIT SET	01/11/21
1	BID SET	02/03/21



Issuance  
**BID SET**

Date  
**02/03/21**

Project Number  
**CC20034**

Drawing Title  
**ELECTRICAL ONE-LINE DIAGRAM AND GROUNDING DIAGRAMS**

Sheet No

**E6.01**

**GENERAL NOTES**

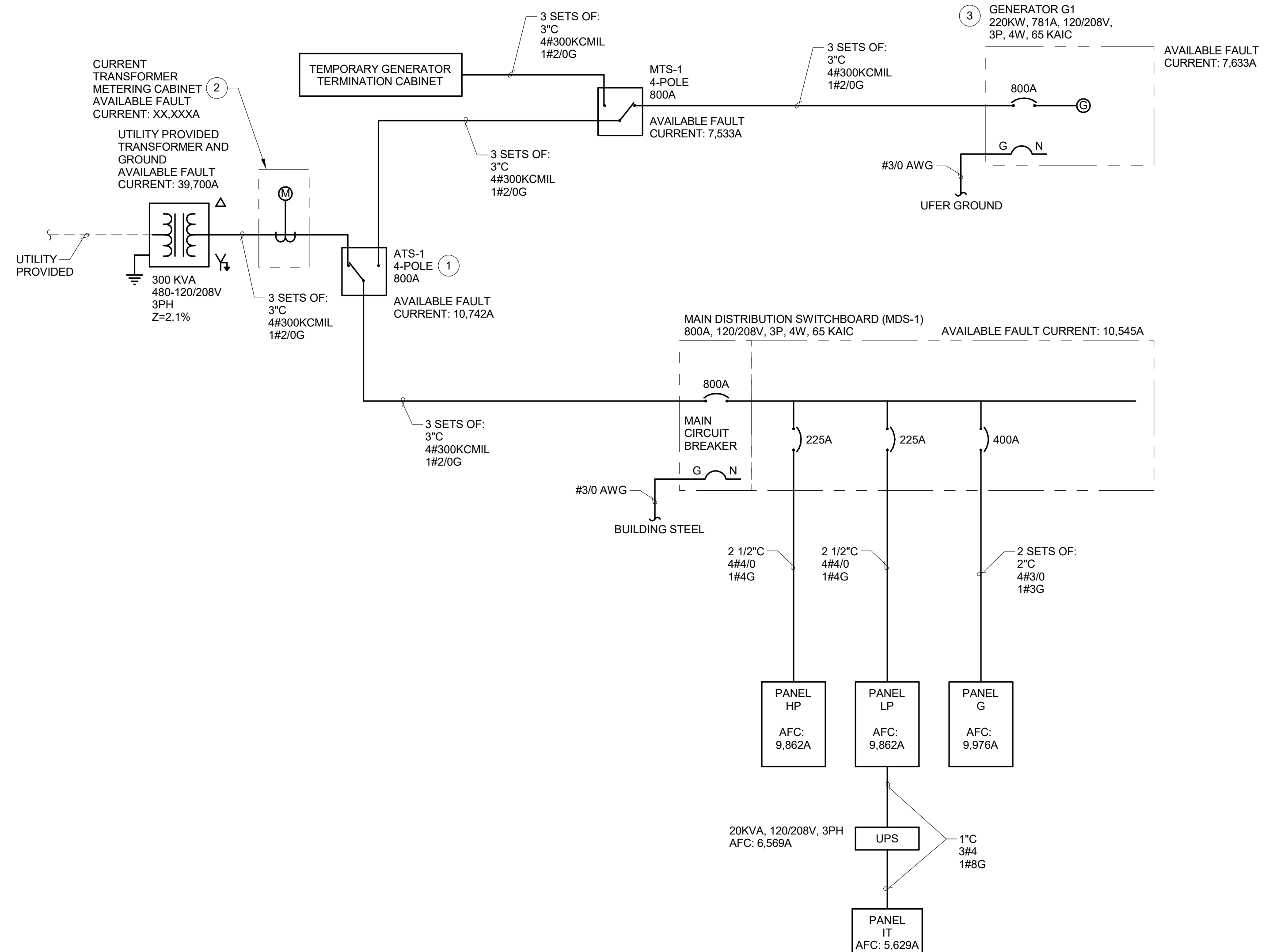
- A SEE SHEET E0.01 FOR LEGEND, ABBREVIATIONS, & GENERAL NOTES.
- B SEE SHEET E5.01 FOR GROUNDING DETAILS.

**KEYED NOTES**

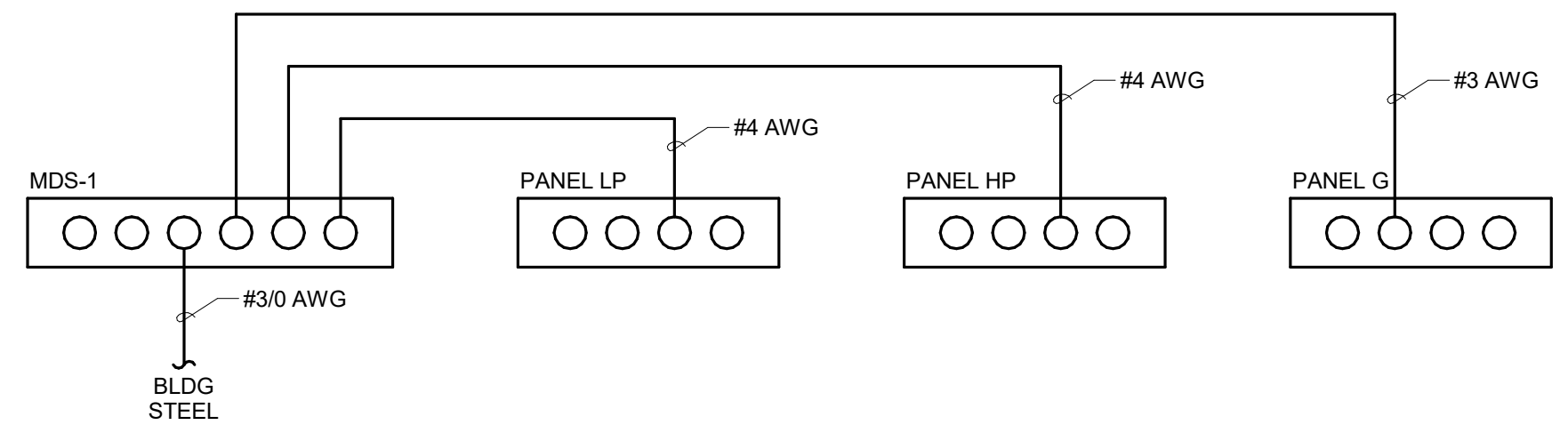
- 1 PROVIDE 800 AMP, 4-POLE, 208 VOLT RATED AUTOMATIC TRANSFER SWITCH IN NEMA 1 ENCLOSURE. TRANSFER SWITCH TO BE SERVICE RATED.
- 2 PROVIDE CURRENT TRANSFORMER METERING CABINET PER PACIFIC POWER SPECIFICATIONS. PACIFIC POWER TO INSTALL CURRENT TRANSFORMER METERS IN CABINET. CONTACT TUCKER HILL 541-967-6161 FOR MORE INFORMATION.
- 3 PROVIDE 220KW, 3PH, 120/208V KOHLER DIESEL GENERATOR WITH 1200 GALLON BELL Y FUEL TANK IN NEMA 3R ENCLOSURE MODEL NUMBER 230REOZJE WITH ALTERNATOR 4UJ49. GENERATOR TO BE CAPABLE OF RUNNING AT FULL LOAD FOR 72 HOURS. GENERATOR TO BE MOUNTED ON CONCRETE PAD AT LOCATION SHOWN ON E4.01.

**LOAD SUMMARY - MDS-1 800A, 208/120V, 3Ø**

Load:	kVA	Amps
PANEL HVAC (HP)	59.11	164.07
LIGHTING PANEL (LP)	28.48	79.06
GENERAL PANEL (G)	63.57	176.45
<b>TOTAL MDS-1 LOADING</b>	<b>151.16</b>	<b>419.58</b>



**1 ELECTRICAL ONE-LINE DIAGRAM**  
NOT TO SCALE



**2 ELECTRICAL GROUNDING DIAGRAM**  
NOT TO SCALE



FIXTURE SCHEDULE										
LABEL	DESCRIPTION	LAMP	LAMP LUMENS	WATTS	VOLTAGE	CATALOG NUMBER	MANUFACTURER	MOUNTING	NOTES	
A	RECESSED 2'x4' LED TROFFER FIXTURE. 4000K COLOR TEMPERATURE, 80CRI, 120V.	LED 4000K	3,638	29	120V	2BLT4-40LHE-ADSM-EZ1-LP840	LITHONIA OR APPROVED	RECESSED		
B	4' STRIP LED FIXTURE. 4000K COLOR TEMPERATURE, 80CRI, 120V.	LED 4000K	2,712	25	120V	ZL1N-L48-3000LM-FST-120-40K-80CRI-WH	LITHONIA OR APPROVED	SURFACE/CHAIN		
C	HIGH BAY LED FIXTURE. 4' LENGTH. CLEAR ACRYLIC LENS. 4000K COLOR TEMPERATURE, 80CRI, 120V	LED 4000K	16,567	115	120V	IBG-18000LM-SEF-ACL-WD-120-GZ10-40K-80CRI-HLN360ADC-DNA	LITHONIA OR APPROVED	CHAIN	INDIVIDUAL OCCUPANCY SENSOR CONTROLS. E FIXTURES TO BE ALWAYS ON	
D	RECESSED LED DOWNLIGHT FIXTURE. 4000K COLOR TEMPERATURE, 80CRI, 120V.	LED 4000K	2,009	23	120V	LDN6-40/20-L06AR-LSS-120-GZ10	LITHONIA OR APPROVED	RECESSED	IP55 RATED (NOTE 2)	
E	RECESSED 2'x2' LED TROFFER FIXTURE. 4000K COLOR TEMPERATURE, 80CRI, 120V.	LED 4000K	2,967	26	120V	2BLT2-33L-ADSM-EZ1-LP940	LITHONIA OR APPROVED	RECESSED	IP55 RATED	
F	RECESSED LED DOWNLIGHT FIXTURE. 4000K COLOR TEMPERATURE, 80CRI, 120V.	LED 4000K	759	8.9	120V	LDN6-40/07-L06AR-LSS-120-GZ10	LITHONIA OR APPROVED	RECESSED		
G	RECESSED 8' STRIP LED FIXTURE. 4000K COLOR TEMPERATURE, 80CRI, 120V.	LED 4000K	5,610	48.2	120V	TZL1N-L96-6000LM-FST-120-40K-90CRI-WH	LITHONIA OR APPROVED	SURFACE		
H	POLE MOUNTED LED FIXTURE. T4M DISTRIBUTION TYPE. 4000K COLOR TEMPERATURE, 120V. COLOR SHALL BE BLACK. NOTE 1	LED 4000K	26,697	241	120V	DSX1-LED-P9-40K-T4M-120-SPA-PIRH1FC3V-DBLXD	LITHONIA OR APPROVED	30' POLE (SEE BELOW FOR SPEC)	ROUND POLE MOUNTING. FULL CUT OFF. INTEGRAL MOTION/AMBIENT SENSOR.	
I	WALL PACK LED FIXTURE. WIDE DISTRIBUTION TYPE. 4000K COLOR TEMPERATURE, 80CRI, 120V. COLOR SHALL BE BLACK	LED 4000K	4,526	35	120V	WDGE2-LED-P4-40K-80CRI-VW-120-SRM-PIRH1FC3V	LITHONIA OR APPROVED	WALL	MOUNT AT 15'. INTEGRAL MOTION/AMBIENT SENSOR. (NOTE 2)	
J	POLE MOUNTED LED FIXTURE. T3 DISTRIBUTION TYPE. 4000K COLOR TEMPERATURE, 120V. COLOR SHALL BE BLACK.	LED 4000K	28,000	295	120V	125-25S-R3-DG	AMERICAN ELECTRIC LIGHTING	30' POLE (SEE BELOW FOR SPEC)	ROUND POLE MOUNTING. FULL CUT OFF. INTEGRAL MOTION/AMBIENT SENSOR.	
L	WARNING LIGHT. STROBE TUBE, 120V, RED COLOR. POLYCARBONATE LENS.	STROBE TUBE	N/A	9.6	120V	2ERP4	GRAINGER OR APPROVED	WALL	FIXTURE TO BE ACTIVATED BY TAPOUT SYSTEM EMERGENCY COMMAND	
M	BOLLARD LED FIXTURE. 4000K COLOR TEMPERATURE, IP65 RATED, VANDAL RESISTANT, DOME TOP, 120V.	LED 4000K	995	41	120V	UCO-10117-41W-1-W40-02-120/277V-0CC1	LIGMAN OR APPROVED	BOLLARD	INTEGRAL MOTION SENSOR	
O	OUTDOOR LED BULLET FLOOD LIGHT WITH FLOOD DISTRIBUTION AND 5000K LENS, 120V.	LED 5000K	839	11	120V	OLBF-8-50K-DOB	LITHONIA OR APPROVED	GROUND	MOTION SENSOR/ADAJLTH CONTROL. 145 DEGREE AIMING ANGLE FOR SIGNAGE. AIM TOWARDS FLAG FOR FLAG POLE	
X	LED EXIT FIXTURE. THERMOPLASTIC HOUSING, RED COLOR, BATTERY BACKUP, 120-277V	LED	N/A	1	120V	LOM SW R 120/277 EL N	LITHONIA OR APPROVED	SURFACE		
POLE	ROUND STRAIGHT STEEL POLE. GALVANIZED FINISH. 30' HEIGHT. SINGLE LUMINAIRE MOUNT. 3'x5' HANDHOLE WITH COVER.	N/A	N/A	N/A	N/A	RSS30B4-4-GC-D190-FA	HAPCO	N/A		

NOTE 1: SENSOR TO REDUCE LIGHTING OUTPUT BY 50% WHEN AREA IS UNOCCUPIED FOR 15 MINUTES OR LONGER  
NOTE 2: ALL LIGHTING ON BUILDING EXTERIOR TO BE ADDRESSABLE AND ON PHOTO SENSOR WITH MANUAL OVERRIDE.

PANEL G										
FEEDER: SEE ONE LINE		MAIN RATING: 400 A MLO		LOCATION: ELEC. ROOM		POWER TYPE: EMERGENCY				
CKT NO.	CIRCUIT DESCRIPTION	CKT BREAKER POLES/AMPS	LOAD Type Volt-Amps	LOAD Type Volt-Amps	CKT BREAKER POLES/AMPS	CIRCUIT DESCRIPTION		CKT NO.		
1	MEZZANINE RECEPTACLES	20-1	R 720 A 645	E 15-2		WASHING MACHINE		2		
3	RM 131 RECEPTACLES	20-1	R 720 B 645	E				4		
5	RM 131 BIKE/ROWER	20-1	E 1000 C 1800	E	20-1	KITCHEN MICROWAVE		6		
7	RM 131 STAIRMASTER	20-1	E 1000 A 1800	E	20-1	KITCHEN REFRIGERATOR		8		
9	RM 131 TREADMILL	20-1	E 1000 B 1800	E	20-1	KITCHEN MICROWAVE		10		
11	RM 130 RECEPTACLES	20-1	R 540 C 1200	E	20-1	DISHWASHER		12		
13	RM 132/129/125 RECEPTACLES/EF-02	20-1	R 960 A 1200	E	20-1	KITCHEN RECEPTACLES		14		
15	RM 128 RECEPTACLES	20-1	R 540 B 1260	R	20-1	RM LOCKERS 110, 115-117 RECEPT		16		
17	RM 128/125 RECEPTACLE	20-1	R 360 C 1080	R	20-1	RM 118-120/122 RECEPTACLES		18		
19	RM 101/134 RECEPTACLES	20-1	R 900 A 1320	R	20-1	STORAGE HALLWAY125 RECEPT_EF-03		20		
21	RM 103-105 RECEPTACLES	20-1	R 720 B 1080	R	20-1	RM 121 RECEPTACLES		22		
23	RM 105 LAUNDRY HALL RECEPTACLES	20-1	R 1080 C 360	R	20-1	RM 121 PROJECTOR/FLOOR		24		
25	RM 108 HALLWAY RECEPTACLES	20-1	R 900 A 540	R	20-1	OUTDOOR RECEPTACLES		26		
27	RR HALLWAY RECEPTACLE	20-1	R 720 B 1080	R	20-1	HALLWAY/DINING RECEPTACLES		28		
29	KITCHEN COUNTER RECEPTACLES	20-1	R 720 C 1080	R	20-1	DAYROOM HALLWAY RECEPTACLES		30		
31	ESPRESSO MACHINE	15-1	E 1200 A 900	R	20-1	RM 133 RECEPTACLES		32		
33	APP BAY RECEPTACLES	20-1	R 180 B 540	R	20-1	APP BAY RECEPTACLES		34		
35	STORAGE 127	20-1	R 180 C 1500	E	20-1	BATTERY CHARGING/STORAGE		36		
37	APP BAY RECEPTACLES	20-1	R 180 A 1500	E	20-1	BATTERY CHARGING/STORAGE		38		
39	APP BAY RECEPTACLES	20-1	R 180 B 1500	E	20-1	BATTERY CHARGING/STORAGE		40		
41	APP BAY GARAGE DOOR	20-1	M 528 C 1500	E	20-1	BATTERY CHARGING/STORAGE		42		
43	APP BAY GARAGE DOOR	20-1	M 528 A 1500	E	15-1	KITCHEN STOVE/HOOD		44		
45	APP BAY GARAGE DOOR	20-1	M 528 B 1800	E	20-1	KITCHEN REFRIGERATOR		46		
47	APP BAY GARAGE DOOR	20-1	M 528 C 1800	E	20-1	KITCHEN REFRIGERATOR		48		
49	APP BAY GARAGE DOOR	20-1	M 528 A 400	E	20-1	KITCHEN DISPOSAL		50		
51	QT-54 AIR COMPRESSOR	40-2	M 1737 B 645	E	15-2	WASHING MACHINE		52		
53			M 1737 C 645	E				54		
55	RM 128 ICE MACHINE	20-1	E 1056 A 1500	E	20-1	DAYROOM CEILING FANS		56		
57	UNDER COUNTER REFRIGERATOR	20-1	E 1000 B 900	R	20-1	RM 121 RECEPT		58		
59	OUTDOOR RECEPTACLES	20-1	R 1080 C 500	E	20-1	SPRINKLER CONTROL PANEL		60		
61	APP BAY VEHICLE POWER DROP	20-1	R 1300 A 4160	E	50-2	FUTURE ELECTRIC KITCHEN OVEN		62		
63	APP BAY VEHICLE POWER DROP	20-1	R 1300 B 4160					64		
65	APP BAY VEHICLE POWER DROP	20-1	R 1300 C			SPARE		66		
67	APP BAY VEHICLE POWER DROP	20-1	R 1300 A			SPARE		68		
69	APP BAY VEHICLE POWER DROP	20-1	R 1300 B			SPARE		70		
71	SPARE	20-1				SPARE		72		
73	SPARE	20-1				SPARE		74		
75	SPARE	20-1				SPARE		76		
77	SPARE	20-1				SPARE		78		
79	SPARE	20-1				SPARE		80		
81	SPARE	20-1				SPARE		82		
83	SPARE	20-1				SPARE		84		

CONNECTED LOAD (VA)		CALCULATED LOAD (PER NEC 220)		PANEL LOAD			
RECEPTACLES:	27,320.00	10 KVA + 50% OF REMAINDER	18,660.00	208Y/120V			
LIGHTING:	0.00	125%	0.00				
EQUIPMENT/MOTORS:	34,296.00	100%	34,296.00				
LARGEST EQUIP MOTOR:	0.00	125% OF LARGEST EQUIP	0.00				
HEATING:	0.00	100%	0.00			PHASE A:	26,037.00
COOLING/MOTORS:	6,114.00	100%	6,114.00			PHASE B:	25,335.00
LARGEST MOTOR:	0.00	125% OF LARGEST MOTOR	0.00	PHASE C:	20,518.00		
MISCELLANEOUS	0.00	100%	0.00				
TOTAL LOAD (KVA):	67.73	TOTAL LOAD:	59.07	TOTAL LOAD:	71.89		
TOTAL AMPS:	188.00	TOTAL AMPS:	163.96	TOTAL AMPS:	199.55		

NOTES:  
1.)  
2.)

PANEL IT										
FEEDER: SEE ONE LINE		MAIN RATING: 70 A MCB		LOCATION: IT ROOM			POWER TYPE: UPS			
CKT NO.	CIRCUIT DESCRIPTION	CKT BREAKER POLES/AMPS	LOAD Type Volt-Amps	LOAD Type Volt-Amps	CKT BREAKER POLES/AMPS	CIRCUIT DESCRIPTION		CKT NO.		
1	IT ROOM RECEPTACLE	20-1	R 180 A 500	E	20-1	ALERT CONTROL PANEL		2		
3	IT ROOM RECEPTACLE	20-1	R 180 B 500	E	20-1	DSP		4		
5	RTU TAPOUT SYSTEM	20-1	E 500 C 500	E	20-1	RADIO		6		
7	AMPLIFIER	20-1	E 500 A 500	E	20-1	GENERATOR ANNUNCIATOR PANEL		8		
9	AMPLIFIER	20-1	E 500 B 500	A		SPARE		10		
11	SPARE	20-1				SPARE		12		
13	SPARE	20-1				SPARE		14		
15	SPARE	20-1				SPARE		16		
17	SPARE	20-1				SPARE		18		
19	SPARE	20-1				SPARE		20		
21	SPARE	20-1				SPARE		22		
23	SPARE	20-1				SPARE		24		

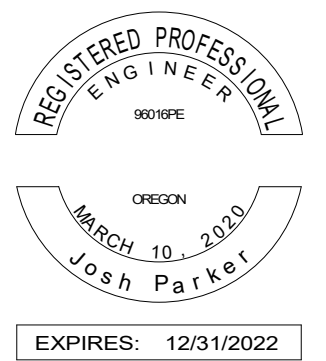
CONNECTED LOAD (VA)		CALCULATED LOAD (PER NEC 220)		PANEL LOAD			
RECEPTACLES:	360.00	10 KVA + 50% OF REMAINDER	360.00	208Y/120V			
LIGHTING:	0.00	125%	0.00				
EQUIPMENT/MOTORS:	3,500.00	100%	3,500.00				
LARGEST EQUIP MOTOR:	0.00	125% OF LARGEST EQUIP	0.00				
HEATING:	0.00	100%	0.00			PHASE A:	1,680.00
COOLING/MOTORS:	0.00	100%	0.00			PHASE B:	1,180.00
LARGEST MOTOR:	0.00	125% OF LARGEST MOTOR	0.00	PHASE C:	1,000.00		
MISCELLANEOUS	0.00	100%	0.00				
TOTAL LOAD (KVA):	3.86	TOTAL LOAD:	3.86	TOTAL LOAD:	3.86		
TOTAL AMPS:	10.71	TOTAL AMPS:	10.71	TOTAL AMPS:	10.71		

NOTES:  
1.)  
2.)  
3.)

PANEL LP										
FEEDER: SEE ONE LINE		MAIN RATING: 225 A MLO		LOCATION: ELEC. ROOM			POWER TYPE: EMERGENCY			
CKT NO.	CIRCUIT DESCRIPTION	CKT BREAKER POLES/AMPS	LOAD Type Volt-Amps	LOAD Type Volt-Amps	CKT BREAKER POLES/AMPS	CIRCUIT DESCRIPTION		CKT NO.		
1	RM 128-131 & MEZZ.	20-1	L 853 A 964	L	20-1	EXTERIOR LIGHTING		2		
3	APPARATUS BAY	20-1	L 1495 B	B	20-1	SPARE		4		
5	RM 101-103, 105-109 & 134	20-1	L 793 C 1205	L	20-1	EXTERIOR LIGHTING		6		
7	RM 110-114, 124, 133 & 126	20-1	L 730 A 175	L	20-1	WALLPACK LIGHTING		8		
9	RM 115-1232	20-1	L 664 B 175	L	20-1	WALLPACK LIGHTING		10		
11	EXTERIOR BOLLARD/FLOOD LIGHTING	20-1	L 287 C 175	L	20-1	WALLPACK LIGHTING		12		
13	SPARE	20-1				SPARE		14		
15	SPARE	20-1				SPARE		16		
17	SPARE	20-1				SPARE		18		
19	SPARE	20-1				SPARE		20		
21	SPARE	20-1				SPARE		22		
23	SPARE	20-1				SPARE		24		
25	SPARE	20-1				SPARE		26		
27	SPARE	20-1				SPARE		28		
29	SPARE	20-1				SPARE		30		
31	SPARE	20-1				SPARE		32		
33	SPARE	20-1				SPARE		34		
35	SPARE	20-1				SPARE		36		
37	SPARE	20-1			6667	E	70-3 20KVA UPS	38		
39	SPARE	20-1			6667	E		40		
41	SPARE	20-1			6667	E		42		

CONNECTED LOAD (VA)		CALCULATED LOAD (PER NEC 220)		PANEL LOAD			
RECEPTACLES:	0.00	10 KVA + 50% OF REMAINDER	0.00	208Y/120V			
LIGHTING:	7,516.00	125%	9,395.00				
EQUIPMENT/MOTORS:	20,001.00	100%	20,001.00				
LARGEST EQUIP MOTOR:	0.00	125% OF LARGEST EQUIP	0.00				
HEATING:	0.00	100%	0.00			PHASE A:	9,





**GENERAL NOTES**

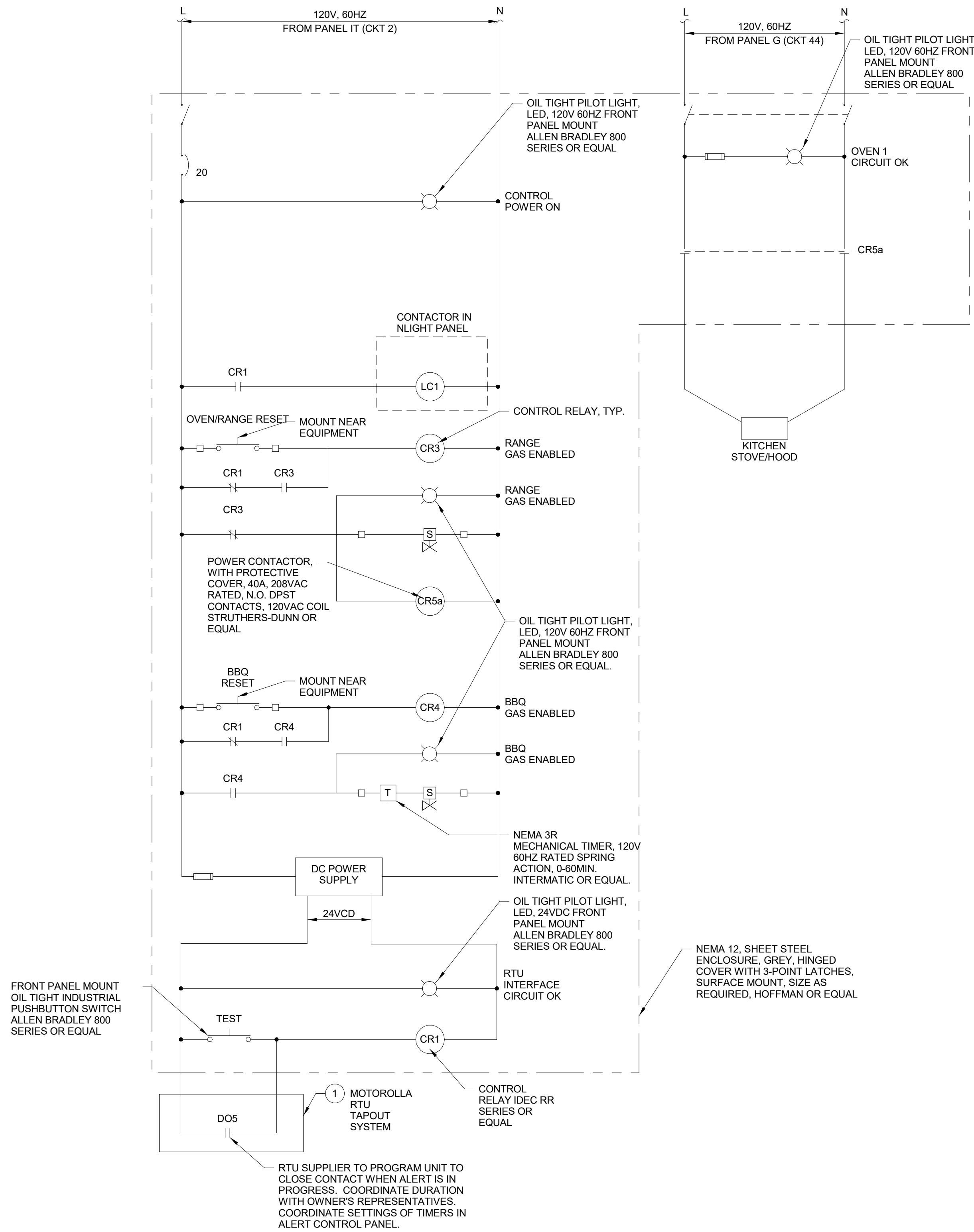
- A SEE SHEET E0.01 FOR LEGEND, ABBREVIATIONS, & GENERAL NOTES.
- B CONTRACTOR TO COORDINATE/PROVIDE ALL REQUIRED INTERCONNECTION FOR COMPLETE TAP OUT OPERATING SYSTEM. WHAT IS SHOWN IS BASED ON PRELIMINARY COORDINATION AND NOT ALL INTERCONNECTIONS SHOWN.
- C FOR COMPLETE LIST OF CUSTOMER TAP OUT FUNCTIONALITY REQUIREMENTS, REFERENCE TAP OUT MEMO APPENDIX B.

**KEYED NOTES**

- 1 COORDINATE WITH THE RTU SUPPLIER (OWNER FURNISHED SYSTEM), IDENTIFY DRY CONTACT IN THE RTU, CONFIRM CONTACT RATINGS AND PROVIDE COMPATIBLE SENSING CIRCUIT. COORDINATE CONTACT SENSE, TERMINAL IDENTIFICATIONS, FURNISH AND INSTALL ALL REQUIRED DEVICES TO PROVIDE THE FUNCTIONS SHOWN.
- 2 DEVELOP SHOP DRAWINGS FOR ACP, INCLUDING INTERNAL AND EXTERNAL ELEVATIONS, ELEMENTARY CONTROL DIAGRAMS, BILLS OF MATERIALS AND INTERCONNECTION SCHEMATIC. PROVIDE TERMINALS FOR ALL WIRES ENTERING/LEAVING THE ACP ENCLOSURE. PROVIDE PHENOLIC NAMEPLATES FOR THE FRONT OF THE PANEL AND BACK OF PANEL DEVICES.
- 3 FOR NOTED INTERCONNECTION BETWEEN THE TAPOUT SYSTEM AND END DEVICES, ASSUME THE FOLLOWING:
  - SWITCHED BUTTONS, #14 AWG AS REQUIRED
  - RADIO 2#14 AWG
  - AMPLIFIER/DSP, 2#14 AWG, SHIELDED
  - SPEAKER LEADS, #14 AWG
 SEE DRAWINGS FOR DEVICE LOCATIONS/QUANTITIES

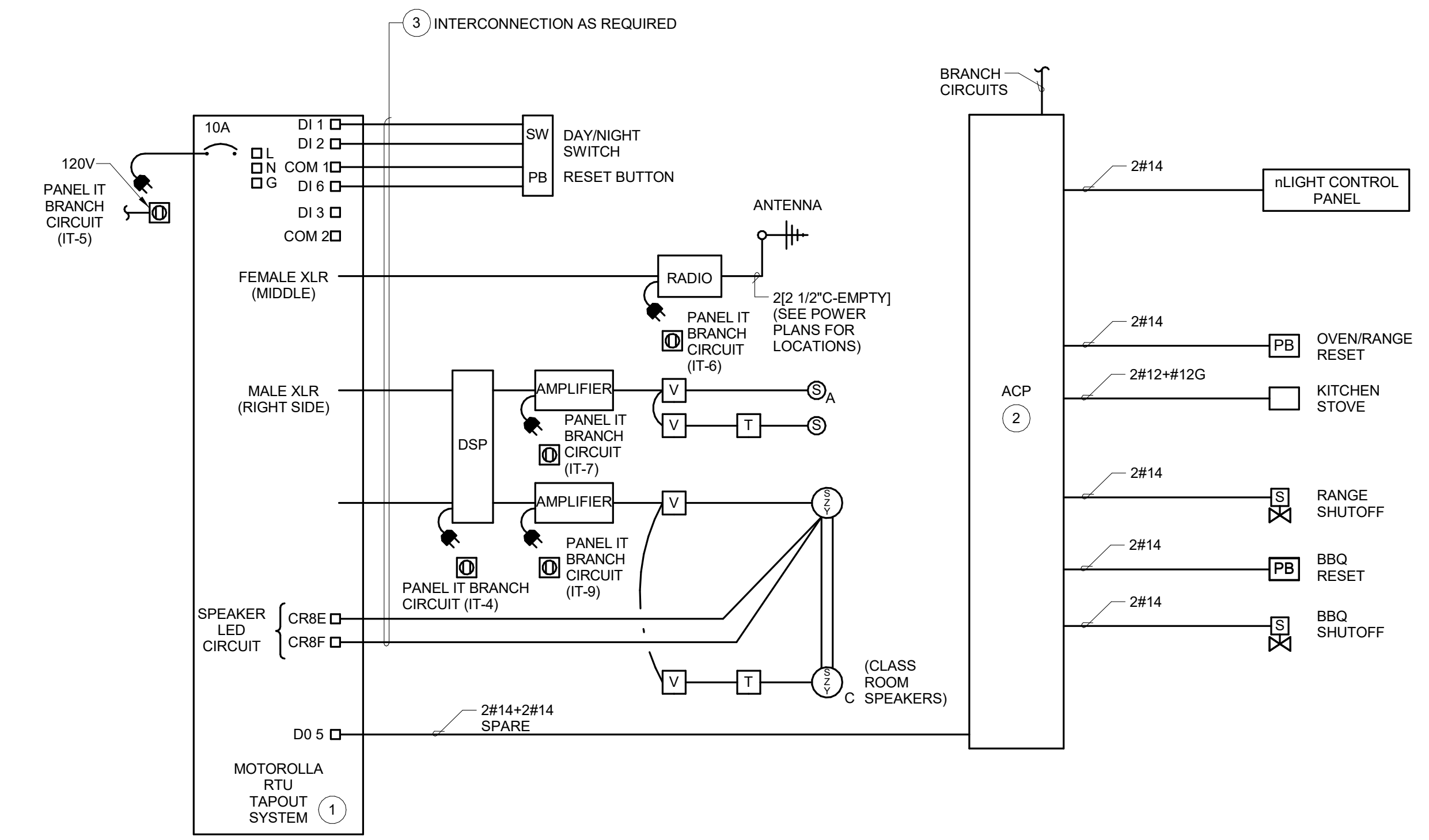
**TAPOUT SYSTEM SEQUENCE OF OPERATIONS**

- 1 PAGER SIGNAL, RADIO SIGNAL OR MANUAL DISPATCH SIGNAL TO INITIATE SYSTEM. TONES ARE GENERATED AND RECEIVED FROM DISPATCH. TONES GENERATED BY DISPATCH ARE AMBULANCE AND FIRST ALARM. UPON ACTIVATION ENERGIZE LIGHTS IN SLEEPING ROOMS, ENERGIZE LIGHTS IN HALLWAY, ENERGIZE LIGHTS IN APP BAYS/SUPPORT SPACES, ENERGIZE AUDIBLE SIGNALING DEVICES, DE-ENERGIZE KITCHEN EQUIPMENT (GAS RANGE, ELECTRIC RANGE AND COUNTERTOP RECEPTACLES ONLY) AND DE-ENERGIZE BARBEQUE EQUIPMENT.
- 2 ANNUNCIATE TONE OVER SPEAKERS, THEN LOCKOUT TONE AND ANNUNCIATE RADIO DISPATCH OVER SAME SPEAKERS. ALL OTHER PAGING TO BE LOCKED OUT WHEN TAPOUT IS ENGAGED. COORDINATE INTERCONNECTION OF TAPOUT CONTROLLER AND PAGING EQUIPMENT SUPPLIER.
- 3 LIGHTS TO REMAIN ENERGIZED UNTIL SYSTEM IS MANUALLY RESET OR AUTOMATICALLY RESET. HALLWAY LIGHTING TO BE PROVIDED WITH OVERRIDE SWITCH TO PROVIDE A MEANS OF MANUAL SHUTOFF. AMBER DORM LIGHTS TO HAVE A GRADUAL INCREASE IN BRIGHTNESS UNTIL FULL BRIGHTNESS. OVERHEAD LIGHTS IN DORMS TO COME ON AFTER AMBER LEADS AT FULL OUTPUT.
- 4 ALL KITCHEN EQUIPMENT TO REMAIN DE-ENERGIZED UNTIL SYSTEM IS MANUALLY RESET. RESET SYSTEM VIA STATION/INTERNAL TIMER.



**1 ALERT CONTROL PANEL (ACP)**  
NOT TO SCALE

**2 RTU INTERCONNECTION SCHEMATIC**  
NOT TO SCALE



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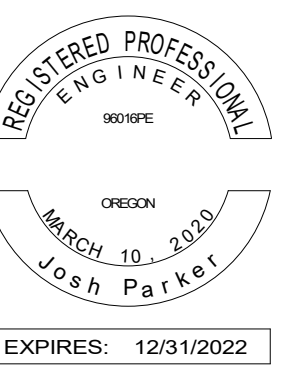


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CONSULTING ENGINEERS  
Beaverton, OR (503) 645-0176

Revisions

No.	Description	Date
0	PERMIT SET	01/11/21
1	BID SET	02/03/21

Stamp



Issuance

**BID SET**

Date

**02/03/21**

Project Number

**CC20034**

Drawing Title

**ELECTRICAL SITE  
LIGHTING PLAN**

Sheet No

**EL1.01**

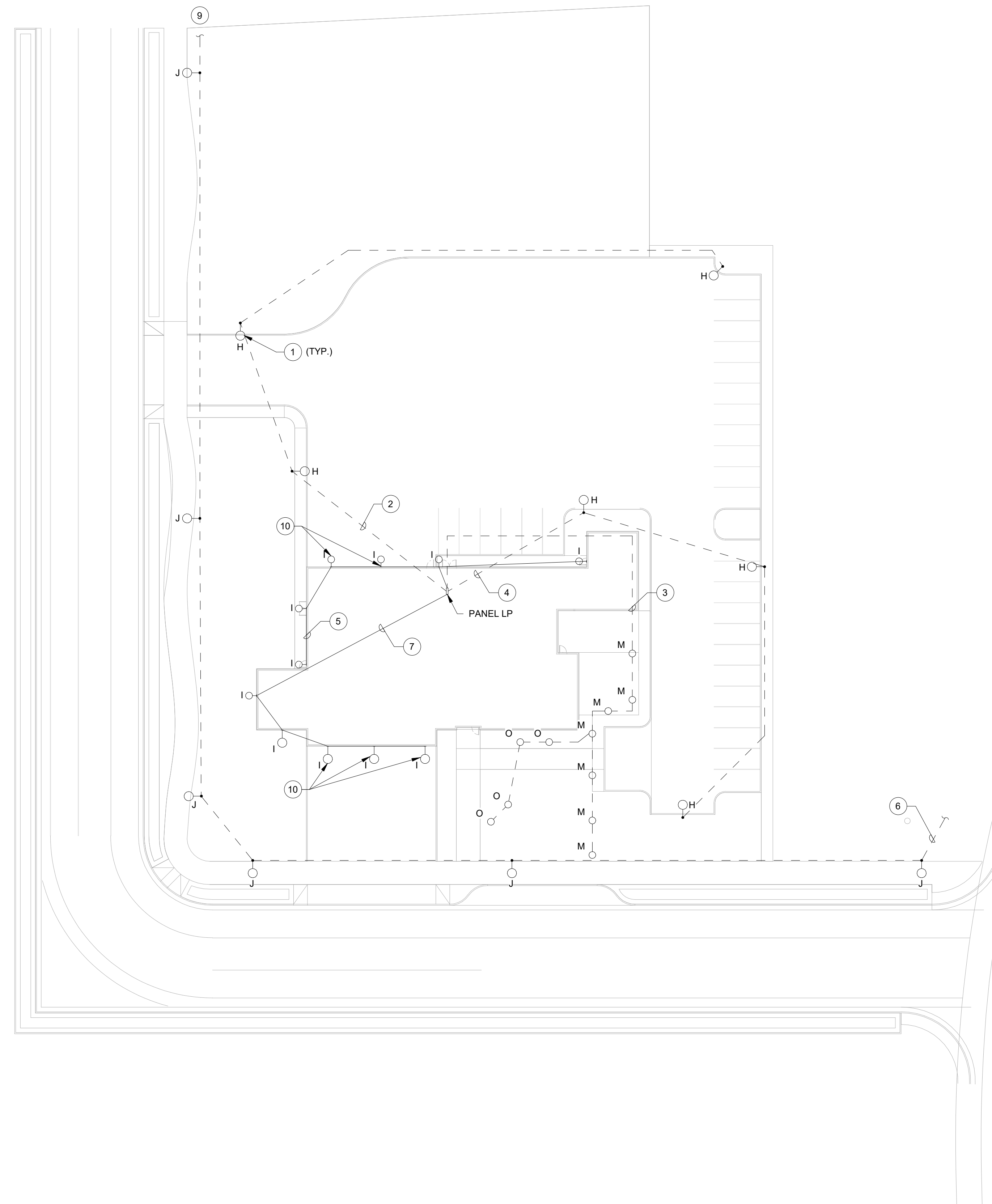
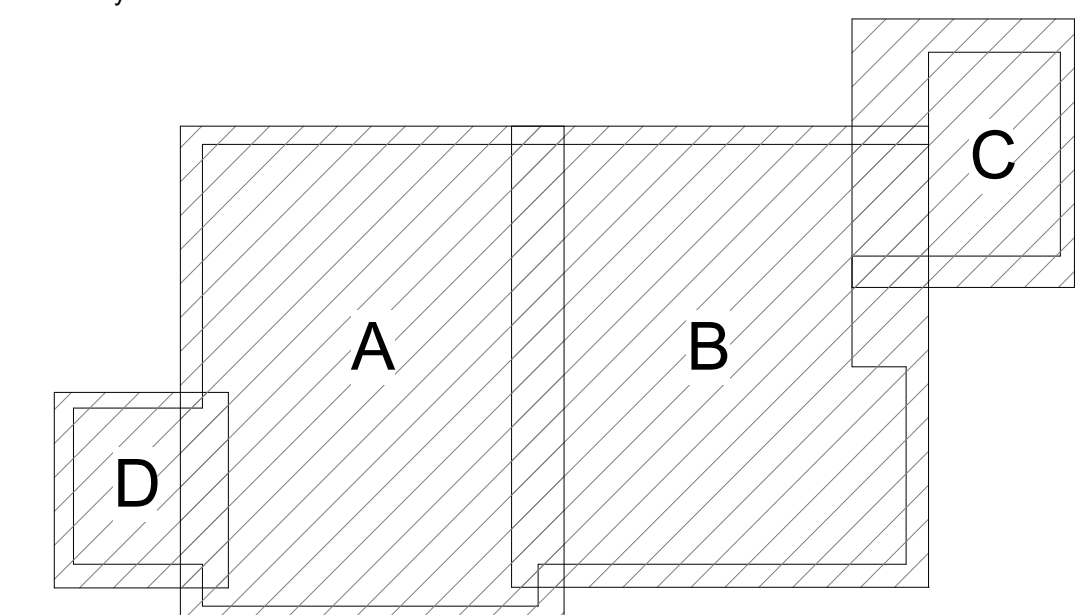
**GENERAL NOTES**

- A SEE SHEET E0.01 FOR LEGEND, ABBREVIATIONS, & GENERAL NOTES.
- B FOR LIGHTING FIXTURE SCHEDULE, REFER TO DRAWING E6.02.
- C ALL LIGHTING SHOWN IS ON SITE STANDBY GENERATOR.

**KEYED NOTES**

- 1 PROVIDE 30 FOOT ROUND LIGHTING POLE TO MOUNT FIXTURE ON. REFER TO DETAIL 2/E5.02 FOR MORE INFORMATION. OLD CASTLE PRECAST 7-LB OR EQUAL. COORDINATE FINAL POLE LOCATIONS WITH THE CITY OF MILLERSBURG.
- 2 CONNECT EXTERIOR SITE LIGHTING CIRCUIT TO LP CIRCUIT 2. PROVIDE (2) #10 AWG AND (1) #10 AWG GROUND CONDUCTOR IN 1" CONDUIT.
- 3 CONNECT EXTERIOR BOLLARD AND SIGNAGE LIGHTING CIRCUIT TO LP CIRCUIT #13. PROVIDE (2) #10 AWG AND (1) #10 AWG GROUND CONDUCTOR IN 1" CONDUIT.
- 4 CONNECT EXTERIOR SITE LIGHTING CIRCUIT TO LP CIRCUIT 6. PROVIDE (2) #10 AWG AND (1) #10 AWG GROUND CONDUCTOR IN 1" CONDUIT.
- 5 CONNECT EXTERIOR WALL PACK LIGHTING CIRCUIT TO LP CIRCUIT 8. PROVIDE (2) #10 AWG AND (1) #10 AWG GROUND CONDUCTOR IN 1" CONDUIT.
- 6 COORDINATE WITH PACIFIC POWER AND THE CITY OF MILLERSBURG FOR CONNECTION OF STREET LIGHTS. PROVIDE LIGHT POLE BASES PER PACIFIC POWER REQUIREMENTS.
- 7 CONNECT EXTERIOR WALL PACK LIGHTING CIRCUIT TO LP CIRCUIT #10. PROVIDE (2) #10 AWG AND (1) #10 AWG GROUND CONDUCTOR IN 1" CONDUIT.
- 8 CONNECT EXTERIOR WALL PACK LIGHTING CIRCUIT TO LP CIRCUIT #12. PROVIDE (2) #10 AWG AND (1) #10 AWG GROUND CONDUCTOR IN 1" CONDUIT.
- 9 PROVIDE 1" CONDUIT TO SOUTH SIDE OF NEW ROAD FOR FUTURE DEVELOPMENT.
- 10 MOUNT FIXTURES CENTERED OVER EACH APPARATUS BAY DOOR. PROVIDE ADDITIONAL LIGHT FIXTURE IF BAY 6 IS IN USE. COORDINATE WITH OWNER.

Key Plan



1

**ELECTRICAL SITE LIGHTING PLAN**

1" = 30'-0"

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Project

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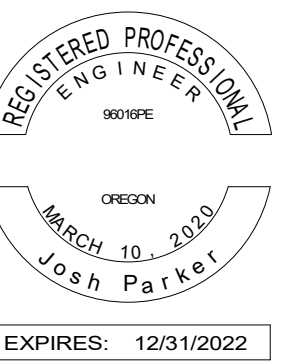


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Revisions

No.	Description	Date
0	PERMIT SET	01/11/21
1	BID SET	02/03/21

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**BID SET**

Date  
**02/03/21**

Project Number  
**CC20034**

Drawing Title  
**ELECTRICAL  
LIGHTING GROUND  
FLOOR PLAN - WEST**

Sheet No

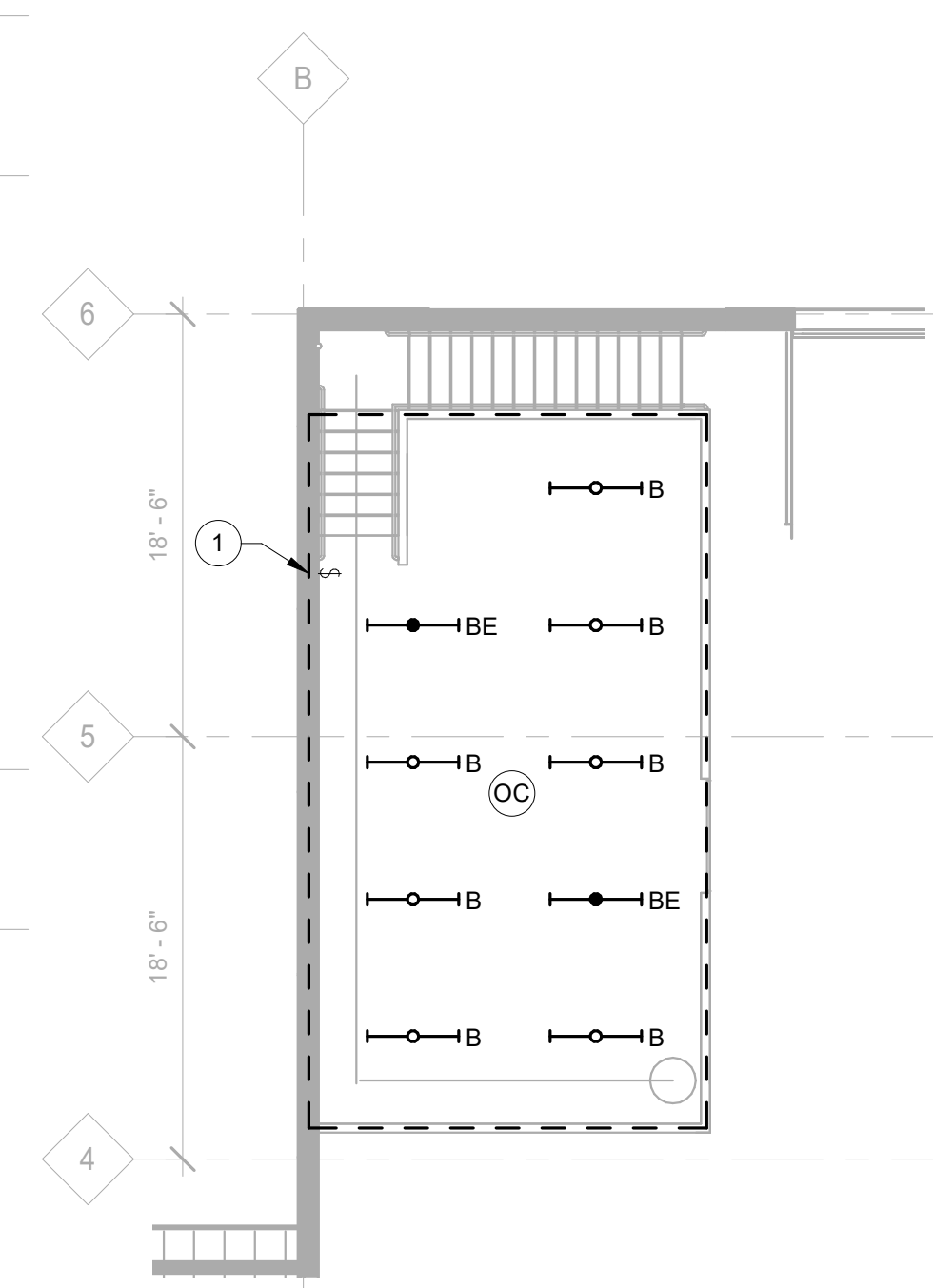
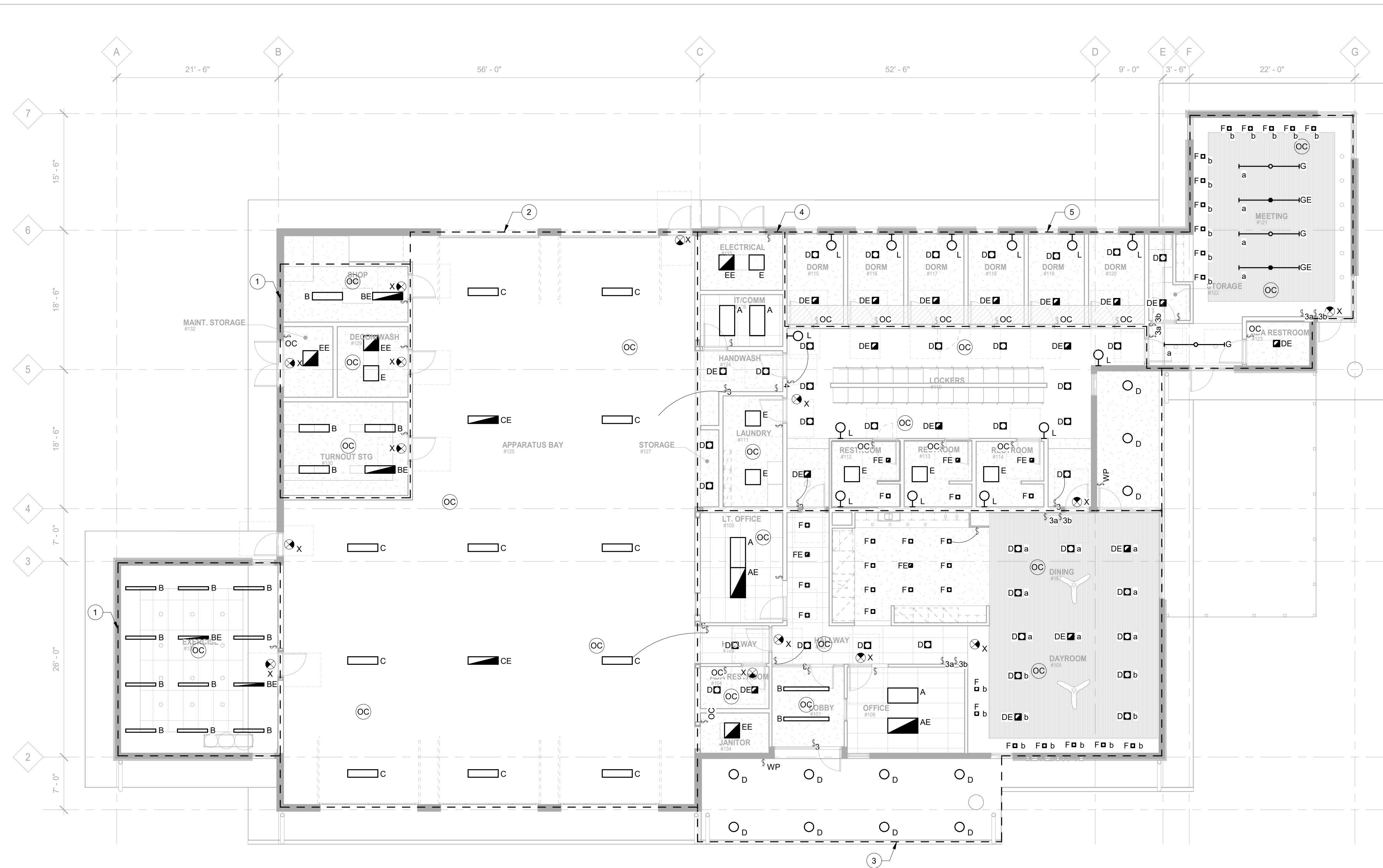
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**GENERAL NOTES**

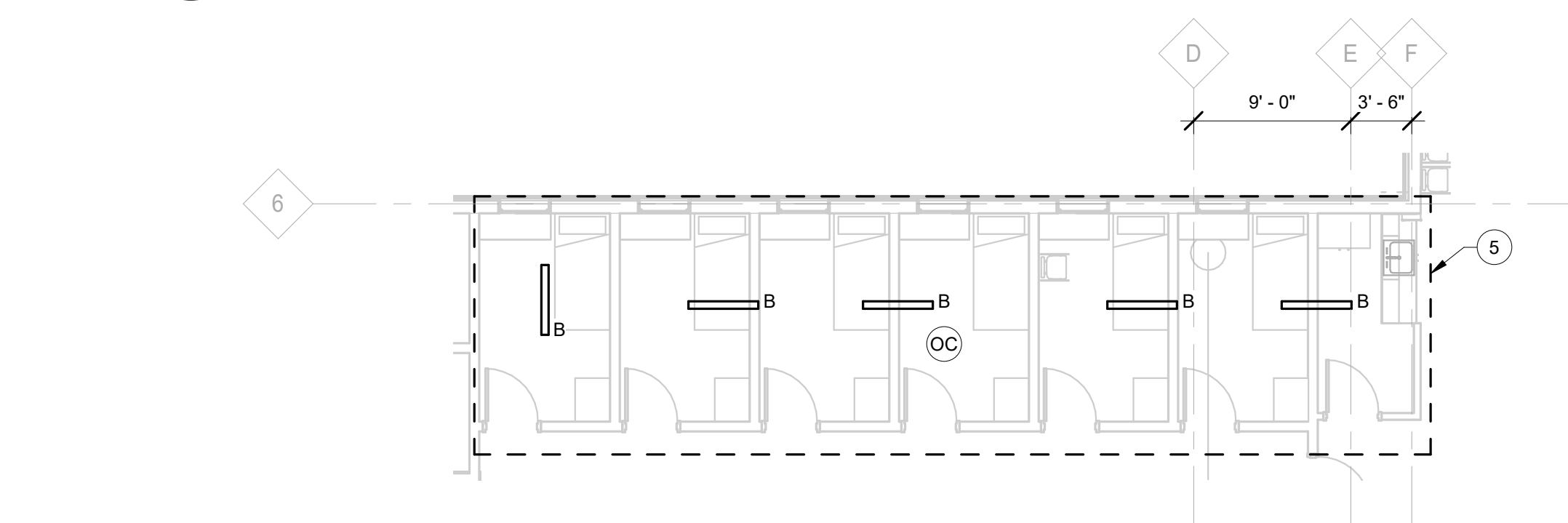
- A SEE SHEET E0.01 FOR LEGEND, ABBREVIATIONS, & GENERAL NOTES.
- B SEE SHEET E6.02 FOR FIXTURE SCHEDULE.
- C OCCUPANCY SENSORS IN ALL SPACES EXCEPT DORMS TO HAVE AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS, RESTRICTED ON AND AUTOMATIC OFF PER ASHRAE 90.1 TABLE 9.6.1. CONFIRM ADEQUATE COVERAGE OF ALL OCCUPANCY SENSORS WITH LIGHTING VENDOR.
- D ALL LIGHTING SHOWN IS ON SITE STANDBY GENERATOR. FIXTURES WITH E TO HAVE INTERNAL BATTERY BACKUP.
- E FOR ALL OUTDOOR FIXTURES REFER TO DRAWING EL1.01.

**KEYED NOTES**

- 1 CONNECT FIXTURES TO LP CIRCUIT 1. PROVIDE #212 AWG AND #112 AWG GROUND CONDUCTOR IN 3/4" CONDUIT.
- 2 CONNECT FIXTURES TO LP CIRCUIT 3. PROVIDE #212 AWG AND #112 AWG GROUND CONDUCTOR IN 3/4" CONDUIT.
- 3 CONNECT FIXTURES TO LP CIRCUIT 5. PROVIDE #212 AWG AND #112 AWG GROUND CONDUCTOR IN 3/4" CONDUIT.
- 4 CONNECT FIXTURES TO LP CIRCUIT 7. PROVIDE #212 AWG AND #112 AWG GROUND CONDUCTOR IN 3/4" CONDUIT.
- 5 CONNECT FIXTURES TO LP CIRCUIT 9. PROVIDE #212 AWG AND #112 AWG GROUND CONDUCTOR IN 3/4" CONDUIT.

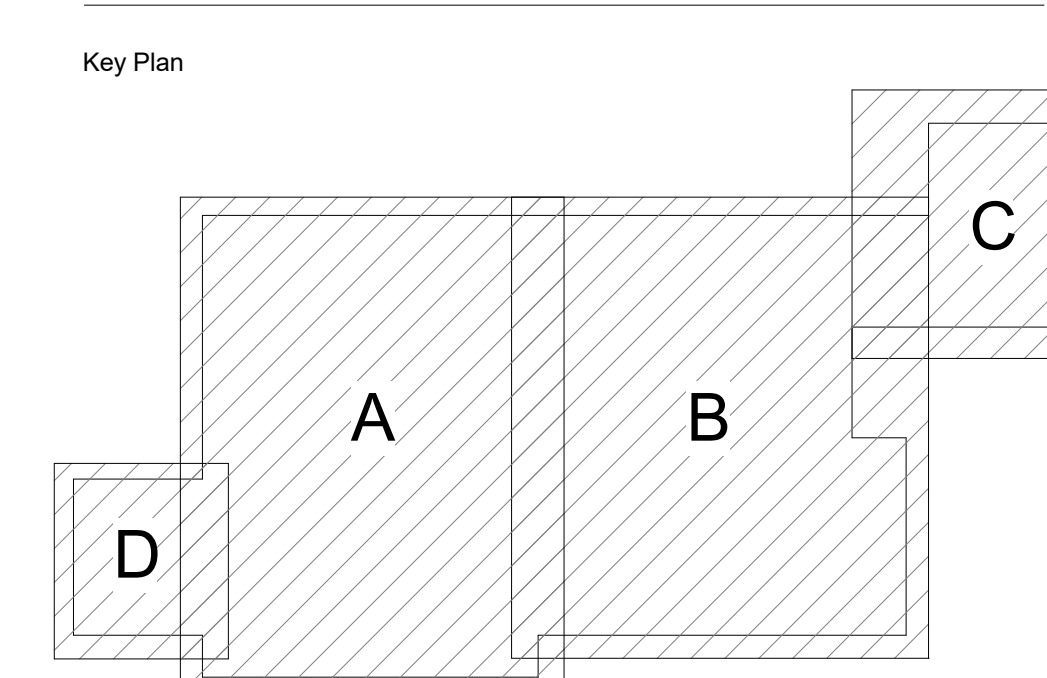


**1** ELECTRICAL LIGHTING GROUND FLOOR PLAN - WEST  
1/8" = 1'-0"



**3** ELECTRICAL LIGHTING ABOVE DORM AREA PLAN  
1/8" = 1'-0"

**2** ELECTRICAL LIGHTING MEZZANINE FLOOR PLAN  
1/8" = 1'-0"





Revisions

No.	Description	Date
0	PERMIT SET	01/11/21
1	BID SET	02/03/21



Issuance  
**BID SET**

Date  
**02/03/21**

Project Number  
**CC20034**

Drawing Title  
**ELECTRICAL  
LIGHTING  
CONTROLS PLAN**

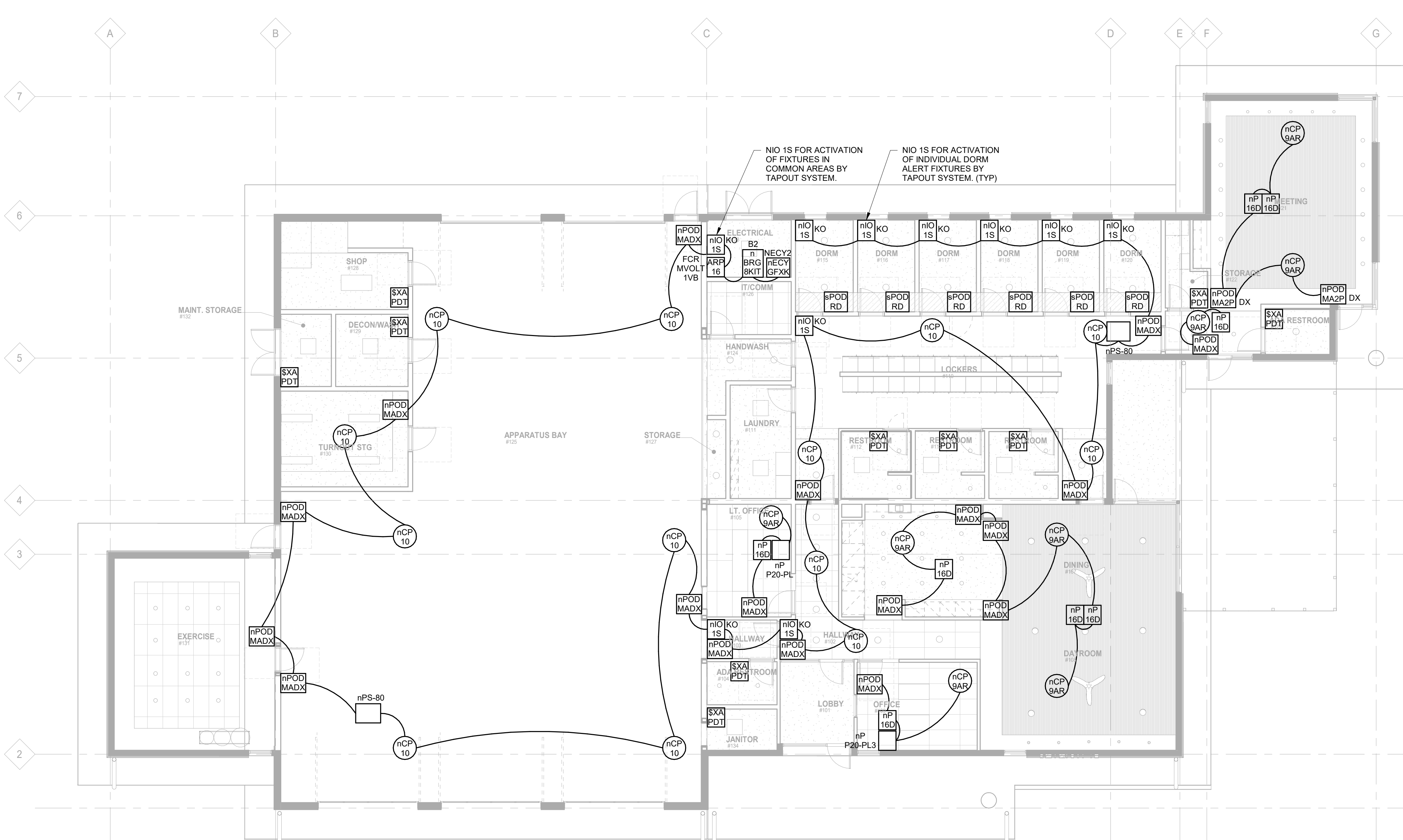
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**GENERAL NOTES**

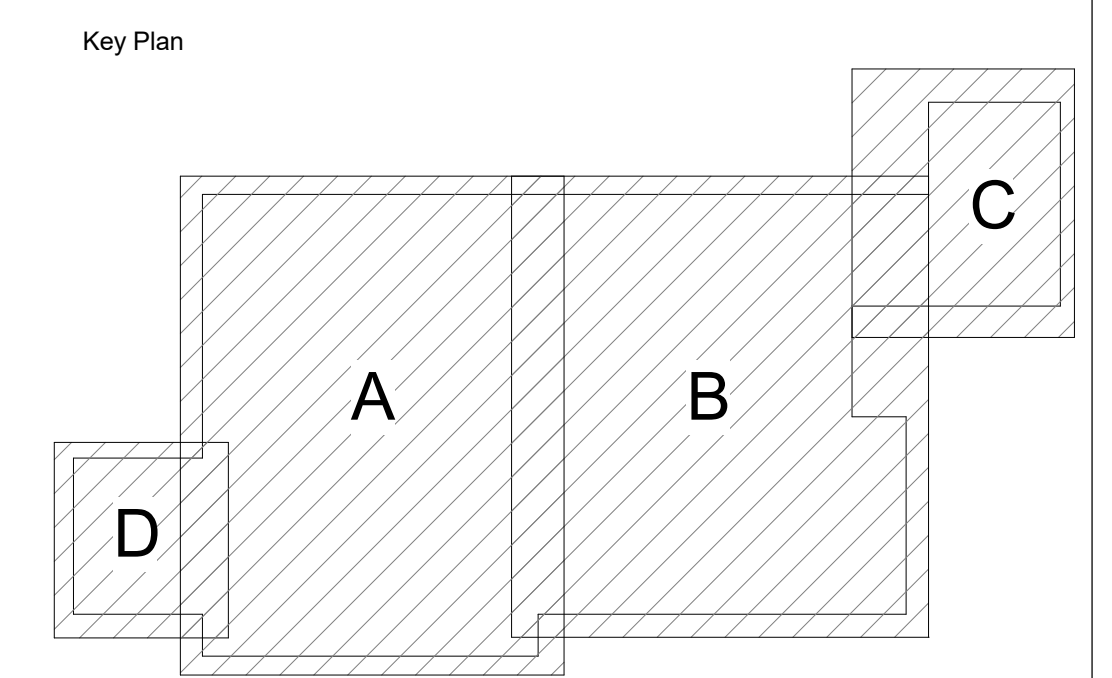
- A SEE SHEET E0.01 FOR LEGEND, ABBREVIATIONS, & GENERAL NOTES.
- B CONTRACTOR TO COORDINATE/PROVIDE ALL REQUIRED INTERCONNECTION FOR COMPLETE LIGHTING CONTROL SYSTEM. WHAT IS SHOWN IS BASED ON PRELIMINARY COORDINATION AND NOT ALL INTERCONNECTIONS ARE SHOWN.

**LEGEND**

- n BRG 8KIT  
BRIDGE, KIT
- nP 16D  
NPP16 D EFP  
POWER/RELAY PACK, OCCUPANCY CONTROLLED DIMMING, EXTERNAL FAULT PROTECTION
- nIO 1S KO  
NIO 1S KO  
nLIGHT DEVICE, CONTACT CLOSURE INPUT, CHASE NIPPLE MOUNTING
- nCP 10  
OS3  
NCM PDT10  
LOW VOLTAGE CEILING MOUNT SENSOR, PASSIVE DUAL TECHNOLOGY, LARGE MOTION / EXTENDED RANGE 360° LENS
- nCP 9AR  
OS4  
NCM PDT 9 AR  
LOW VOLTAGE CEILING MOUNT SENSOR, PASSIVE DUAL TECHNOLOGY, SMALL MOTION / STANDARD RANGE 360° LENS, AUXILIARY RELAY
- ARP 16  
PL1 ARP INTEN16 NLT 16FCR MVOLT 1VB  
SC SM  
ACUITY RELAY PANEL, INCLUDE INT AND ENC, 16-SIZE, nLIGHT, 16-FIELD CONFIGURABLE RELAYS, 120-277 VAC, 1 VOLTAGE BARRIER, SCRE COVER, SURFACE MOUNT
- nPS-80  
PP1  
NPP20 PL  
PLUG LOAD
- nP P20-PL  
PS1  
NPS 80  
POWER SUPPLY, 80mA
- nECY GFXX  
SC1  
NECY MVOLT ENC FGXX  
nLIGHT ECLYPSE, 120-277 VAC, 14 1/4"x14 1/4"x4"D METAL ENCLOSURE FOR ECLYPSE ENERGYSYTE OR nLIGHT ECLYPSE., NGWY2 GFX AND PS 150 POWER SUPPLY WITH CAT 5 CABLE
- SXA PDT  
SO1  
WSXA PDT XX  
WALL SWITCH SENSOR, PASSIVE DUAL TECHNOLOGY
- sPOD RD  
SW1  
SPODMRD XX  
WALL SWITCH DIMMER
- nPOD MADX  
SW2  
NPODMA DX XX  
nLIGHT WIRED AESTHETIC WALLPOD, RAISE/LOWER DIMMING WITHOUT WIRES
- nPOD MA2P DX  
SW3  
NPODMA 2P DX XX  
nLIGHT WIRED AESTHETIC WALLPOD, 2-POLE, RAISE/LOWER DIMMING WITHOUT WIRES



**1** **ELECTRICAL LIGHTING CONTROLS PLAN**  
1/8" = 1'-0"

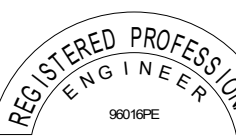


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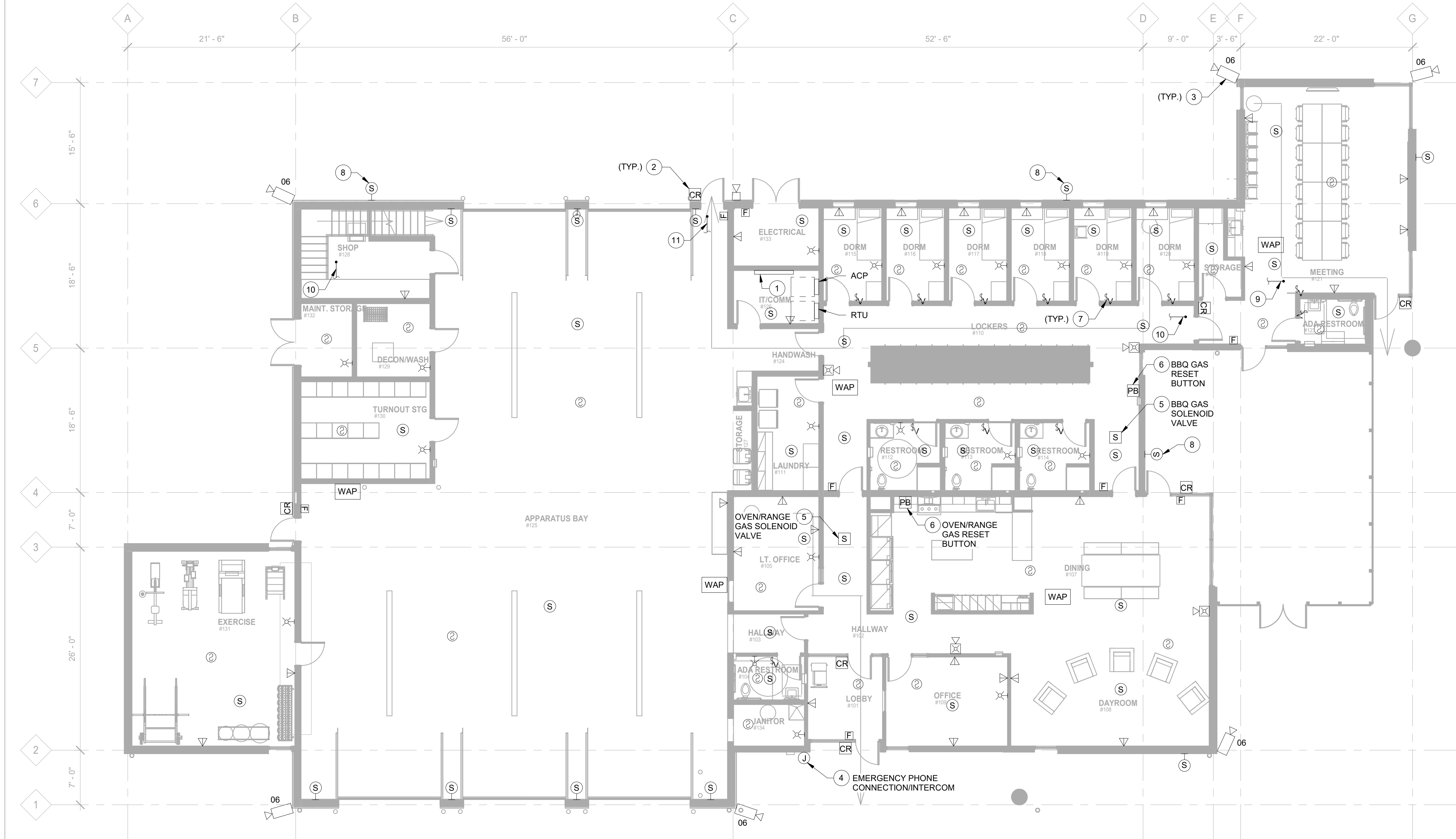


**GENERAL NOTES**

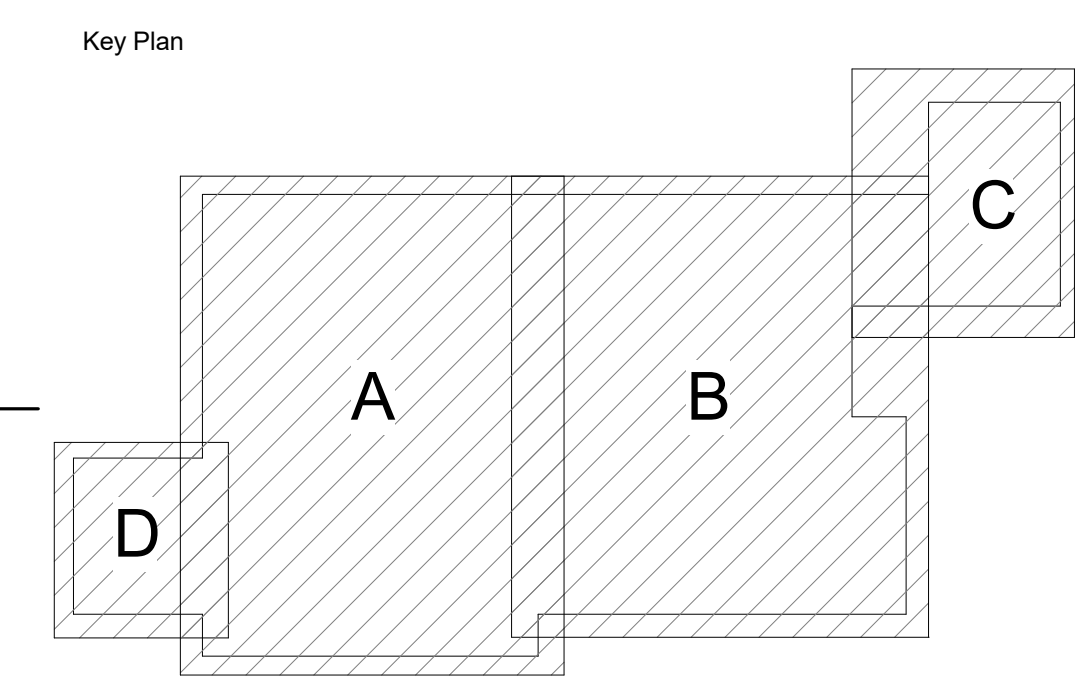
- A SEE SHEET E0.01 FOR LEGEND, ABBREVIATIONS, & GENERAL NOTES.
- B ALL DATA CABLING TO BE CAT6.
- C DESIGN/BUILD SYSTEM COMPONENTS ON THIS PLAN INCLUDE ACCESS CONTROL & AUDIO (ALERT PAGING). THE INTENT OF THE DRAWINGS IS TO SHOW END DEVICE LOCATIONS AND TYPICAL INTERCONNECTION REQUIREMENTS. IT IS CONTRACTOR'S RESPONSIBILITY TO PROVIDE/INSTALL COMPLETE OPERATING SYSTEMS WHICH MEET OWNER REQUIREMENTS PER DRAWINGS AND DESIGN/BUILD SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE PATHWAY, CABLING AND TERMINATIONS.
- D LED LIGHTS IN CEILING SPEAKERS ARE FED FROM THE TAP OUT UNIT, SEE SHEET E6.03.
- E SEE SHEET E6.03 FOR TAP OUT SYSTEM INFORMATION

**KEYED NOTES**

- 1 PROVIDE DEMARK BACKBOARD IN IT ROOM FOR TERMINATION OF FIBER AND COPPER CABLES. COORDINATE WORK WITH CENTURYLINK, LS NETWORKS AND XFINITY.
- 2 PROVIDE HID SIGNO 40K PROXIMITY CARD READER OR APPROVED EQUAL AT LOCATION SHOWN. PROVIDE SINGLE GANG BACKBOX AND SPARE 3/4" CONDUIT FROM CARD READER TO SITE HEAD-END EQUIPMENT IN IT CLOSET. PROVIDE POWER SUPPLY, CONTROL PANEL AND INTERCONNECTING LOW VOLTAGE CONDUCTORS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM. COORDINATE WITH SECURITY VENDOR.
- 3 PROVIDE OUTDOOR RATED CCTV CAMERA AS SHOWN. CAMERA TO HAVE INFRARED VISION IN DARKNESS. CONTAIN INTERNAL POWER SUPPLY, AND HAVE WIDE ANGLE VIEW. PROVIDE SPARE 3/4" CONDUIT FROM CAMERA TO SITE HEAD-END EQUIPMENT IN IT CLOSET. PROVIDE ALL INTERCONNECTING LOW VOLTAGE CONDUCTORS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM. COORDINATE WITH SECURITY VENDOR. COORDINATE FINAL LOCATION WITH OWNER.
- 4 PROVIDE 1" CONDUIT FROM JUNCTION BOX TO EMERGENCY PHONE AND INTERCOM CONNECTION POINT. COORDINATE WITH SECURITY CONTRACTOR.
- 5 COORDINATE LOCATIONS OF GAS SOLENOID SHUT-OFF VALVES FOR NOTED RANGE AND BBQ WITH THE PLUMBING CONTRACTOR. VALVES TO REMAIN CLOSED UNTIL RESET BUTTON IS ENGAGED.
- 6 COORDINATE LOCATIONS OF NOTED GAS RANGE/OVEN AND BBQ APPLIANCE RESET BUTTONS WITH OWNER.
- 7 PROVIDE WALL MOUNTED CONTROL KNOB TO ALLOW CONTROL OF SPEAKER VOLUME IN THE ROOM.
- 8 PROVIDE WEATHERPROOF SPEAKER. SPEAKER TO BE ON TIMER TO ALLOW FOR CONTROL DURING OWNER SPECIFIED HOURS. COORDINATE WITH TAP OUT SYSTEM INSTALLER. COORDINATE FINAL LOCATION WITH OWNER.
- 9 PROVIDE 2 1/2" RIGID STEEL CONDUIT FROM IT ROOM RADIO BASE STATION TO 6' ABOVE ROOF PEAK FOR FUTURE HAM RADIO ANTENNA. CAP AND SEAL FOR FUTURE USE. CONSULT WITH OWNER FOR MORE INFORMATION.
- 10 PROVIDE 2 1/2" RIGID STEEL CONDUIT FROM MEETING ROOM WALL TO 6' ABOVE ROOF PEAK FOR OWNER PROVIDED ANALOG RADIO ANTENNA. CONSULT WITH OWNER FOR MORE INFORMATION.
- 11 PROVIDE 2 1/2" RIGID STEEL CONDUIT FROM IT ROOM RADIO BASE STATION TO 6' ABOVE ROOF PEAK FOR OWNER PROVIDED DIGITAL RADIO ANTENNA. CONSULT WITH OWNER FOR MORE INFORMATION.



**ELECTRICAL LOW VOLTAGE GROUND FLOOR PLAN - WEST**  
1  
1/8" = 1'-0"



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