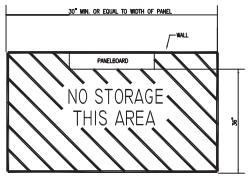
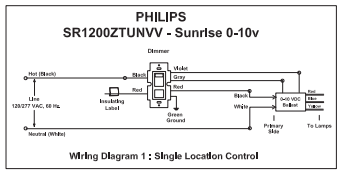
ELECTRICAL GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO A/V DRAWINGS FOR REQUIRED RACEWAYS, EXACT SIZE, AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
2. RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
3. LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR AUDIO-VISUAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL "AV" EQUIPMENT LOCATIONS TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
4. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
5. ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
6. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC., SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
7. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
8. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE AUDIO-VISUAL AND SPECIAL EQUIPMENT SUBMITALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
9. FURNISH ALL EQUIPMENT AND LABOR; PERFORM ALL LABOR WITH SUPERVISION, BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.
10. COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE, 2020 NATIONAL ELECTRIC CODE, AND 2023 FBC 8TH EDITION. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
11. OBTAIN ARCHITECTS/ENGINEER'S APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC., PRIOR TO PURCHASING.
12. TERMINATIONS FOR ALL EQUIPMENT SHOWN TO HAVE TEMPERATURE RATING OF 75deg.C PER NEC 2020 ART. 110.14 & TABLE 310.15(B)(16).
13. WHERE USED, PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE CIRCUIT BREAKERS SERVING MULTI-WIRE BRANCH CIRCUITS IN ACCORDANCE WITH NEC 210.4(B).

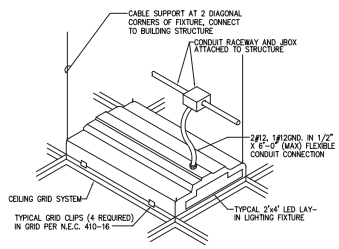


1 TYPICAL CLEARANCE AT ELECTRICAL PANELS
E0.01 SCALE: N.T.S.



DEMOLITION NOTES

1. ALL EXISTING SYSTEMS AND CONDITIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE EXISTING ELECTRICAL CIRCUITS OF POWER, RECEPTACLES, LIGHTING, ETC. BEING REMOVED MAY NOT BE SHOWN ON THESE DOCUMENTS, BUT ARE TO BE REMOVED AS REQUIRED TO BUILD THIS PROJECT AND TO PERMIT NEW FINISHES, WALLS, ETC. THE CONTRACTOR SHALL FIELD-VERIFY ALL CONDITIONS PRIOR TO BEGINNING ANY WORK AND SHALL NOTIFY THE ARCHITECT OF DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST AND SHALL PERFORM ANY ADDITIONAL WORK NECESSARY TO PERFORM THE WORK AS SHOWN AND SPECIFIED.
2. IF A DEVICE IS BEING REMOVED AND THE CIRCUIT FEEDS OTHER LOADS FROM THE DEVICE, THEN THE WIRING SHALL BE MADE CONTINUOUS TO THE REMAINING LOADS. NO CIRCUIT CONTINUITY SHALL BE LOST.
3. IF A DEVICE IS BEING REMOVED AND NOT PART OF A DEMO WALL, THAT LOCATION SHALL BE RESTORED TO MATCH ADJACENT SURFACE.
4. REMOVE ALL DISCONNECTS, WIRING, AND CONDUITS SERVING MECHANICAL EQUIPMENT BEING REMOVED OR RELOCATED.
5. CONTRACTOR TO REMOVE ALL CONDUITS, AND ASSOCIATED WIRING FROM DEVICES BEING REMOVED BACK TO PANEL UNLESS NOTED OTHERWISE. WHEN ALL LOADS ON EXISTING BREAKERS ARE REMOVED, RELABEL BREAKER AS "SPARE".



2 TYPICAL LAY-IN FIXTURE DETAIL
E0.01 SCALE: N.T.S.

ELECTRICAL LEGEND

CEILING OUTLETS

- RECESSED 2' X 4' FLUORESCENT/LED FIXTURE MARK "A" CIRCUIT TYPICAL
- NL RECESSED 2' X 4' FLUORESCENT/LED FIXTURE INSTALLED FOR CONTINUOUS OPERATION
- INDICATES FIXTURE WITH EMERGENCY UNIT BATTERY PACK
- SURFACE MOUNTED, RECESSED OR SUSPENDED FLUORESCENT/LED FIXTURE MARK "A" AS NOTED
- SURFACE MOUNTED FLUORESCENT/LED STRIP FIXTURE MARK "SS" AS NOTED
- EXIT LIGHT
- JUNCTION BOX
- RECESSED/SURFACE MOUNT LIGHT
- NL RECESSED/SURFACE MOUNT LIGHT INSTALLED FOR CONTINUOUS OPERATION
- EF EXHAUST FAN

PANELS AND POWER

- 120/208 VOLT PANELBOARD
- EXISTING 120/208 VOLT PANELBOARD
- NON-FUSIBLE DISCONNECT SWITCH. XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING

FIRE ALARM SYSTEM

- F FIRE ALARM SYSTEM MANUAL PULL STATION, MT 48" AFF TO C/L
- FAP FIRE ALARM SYSTEM SIGNAL SPEAKER/STROBE, MT 80" AFF TO BOTTOM.
- WP FAP WEATHERPROOF FIRE ALARM SYSTEM SIGNAL SPEAKER, MOUNT 80" AFF TO BOTTOM
- FAP FIRE ALARM SYSTEM STROBE, MT. 80" AFF TO BOTTOM.
- FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR; 135 DEGREE/RATE OF RISE TYPE; CEILING MOUNTED
- FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR, CEILING MOUNTED
- FIRE ALARM SYSTEM RACEWAY INSTALLED CONCEALED; ARROW INDICATES HOMERUN TO FIRE ALARM CONTROL PANEL
- S FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN SUPPLY AIR DUCT
- R FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN RETURN AIR DUCT
- R NORMALLY CLOSED RELAY IN H.V.A.C. CONTROL CIRCUIT TO OPEN UPON ACTUATION OF BUILDING FIRE ALARM SYSTEM TO SHUT DOWN A/C UNIT. CONTACTS RATED 5 AMPS, 120 VOLTS.
- RI REMOTE INDICATOR LIGHT, FIELD-VERIFY EXACT LOCATION OF INSTALLATION
- DH FIRE ALARM SYSTEM MAGNETIC DOOR HOLDERS, WHERE APPLICABLE. EC TO PROVIDE 120V POWER AT DEVICE.
- FS FIRE ALARM SYSTEM FLOW SWITCH
- TS FIRE ALARM SYSTEM TAMPER SWITCH

WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)

- S A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT, MOUNT 48" AFF TO C/L
- S_3 A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT, MOUNT 48" AFF TO C/L
- S_4 A.C. TYPE, 4-WAY, 20 AMP, 120/277 VOLT, MOUNT 48" AFF TO C/L
- S_W MOTOR-RATED TOGGLE SWITCH; FIELD-VERIFY EXACT HT & LOCATION WITH EQUIPMENT INSTALLER
- S_R WALL MOUNTED OCCUPANCY SENSOR (PASSIVE INFRARED) EQUAL TO WATTSTOPPER PW-301, SET DELAY OFF TIME FOR 10 MINUTES (120/277V); MOUNT 48" AFF TO C/L
- S_{RD} WALL MOUNTED OCCUPANCY SENSOR EQUAL TO WATTSTOPPER DSW-301, DUAL TECHNOLOGY; MOUNT 48" AFF TO C/L; SET DELAY OFF TIME FOR 10 MINUTES (120/277V)
- S_{RS} 8-10V DIMMING W/ 50%, 75%, & 100% PRE-SETS WALL MOUNTED OCCUPANCY SENSOR (PASSIVE INFRARED) EQUAL TO WATTSTOPPER PW-311; SET DELAY OFF TIME FOR 10 MINUTES (120/277V); MOUNT 48" AFF TO C/L. IF DIMMING IS DESIRED IN A SPACE, A SEPARATE 0-10V 2-WIRE CONTROL CIRCUIT (MIN. 18GA) TO BE INSTALLED FROM DEVICE TO ALL FIXTURES IN ASSOCIATED DIMMING ZONE (FIXTURES TO BE DAISY-CHAINED).
- S_{DS} 0-10V DIMMING W/ 50%, 75%, & 100% PRE-SETS WALL MOUNTED OCCUPANCY SENSOR (PASSIVE INFRARED & ULTRASONIC) EQUAL TO WATTSTOPPER DW-311; SET DELAY OFF TIME FOR 10 MINUTES (120/277V); MOUNT 48" AFF TO C/L. IF DIMMING IS DESIRED IN A SPACE, A SEPARATE 0-10V 2-WIRE CONTROL CIRCUIT (MIN. 18GA) TO BE INSTALLED FROM DEVICE TO ALL FIXTURES IN ASSOCIATED DIMMING ZONE (FIXTURES TO BE DAISY-CHAINED).
- S_{AD} WALL MOUNTED OCCUPANCY SENSOR (PASSIVE INFRARED & ULTRASONIC) EQUAL TO WATTSTOPPER DW-200; SET DELAY OFF TIME FOR 10 MINUTES (120/277V); MOUNT 48" AFF TO C/L. W/ 50%, 75%, & 100% PRESETS. NOTE THAT FOR EACH LEVEL OF LIGHT, A SEPARATE SWITCH LEG IS REQUIRED TO BE INSTALLED.
- LC PHILIPS SUNRISE 1200W ELECTRONIC WALL DIMMER (MODEL# SR1200ZTUNV); EC TO INSTALL 120V HOTLEG (LOAD SIDE OF OCCUPANCY SENSOR SWITCH) TO DIMMING MODULE AND FROM MODULE TO FIXTURE. IN ADDITION, INSTALL A 2-WIRE (#16 AWG) DIMMING CIRCUIT FROM DIMMER MODULE TO LIGHTING FIXTURE(S) TO BE CONTROLLED. WITHIN EACH ZONE, DIMMING CIRCUIT MAY BE DAISY-CHAINED AND NOT SEPARATE RUNS FROM MODULE TO EACH FIXTURE REQUIRED. IF OTHER-THAN-SPECIFIED MANUFACTURERS/FIXTURE TYPES FURNISHED, EC TO VERIFY THAT DIMMING MODULE SUPPLIED TO BE 100% COMPATIBLE WITH FIXTURES TO BE INSTALLED. MOUNT 48" AFF TO C/L. IF EMERGENCY EGRESS FIXTURES W/ BATTERY BACKUP ARE WITHIN ZONE OF CONTROL, INSTALL A SEPARATE NON-SWITCHED 120V HOTLEG FOR CONTINUAL CHARGING OF BATTERIES.

AUTOMATIC LIGHTING CONTROL SYSTEM

- 180° CEILING MOUNTED OCCUPANCY SENSOR EQUAL TO WATTSTOPPER DT-205 (LOW VOLTAGE); DUAL TECHNOLOGY INFRARED AND ULTRASONIC, 2000 SQ FT COVERAGE; SEE CEILING MOUNTED MOTION DETECTOR DETAIL
- 360° CEILING MOUNTED OCCUPANCY SENSOR EQUAL TO WATTSTOPPER DT-355 (LINE VOLTAGE); DUAL TECHNOLOGY INFRARED AND ULTRASONIC, 1000 SQ FT COVERAGE; SEE CEILING MOUNTED MOTION DETECTOR DETAIL
- P POWER PACK RELAY EQUAL TO WATTSTOPPER BZ-50 POWER PACK, SEE CEILING MOUNTED MOTION DETECTOR DEVICE TO BE MOUNTED ABOVE CEILING. (UNIVERSAL 100-277V) ...20 AMP MAX. SWITCHING CAPABILITY CAPABILITY

BRANCH CIRCUITING

- RUN CONCEALED UNDER FLOOR OR IN GRADE
- RUN CONCEALED IN CEILING OR WALLS
- LA-1 HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2#12, 1#12 GROUND. 3/4"C. — 3 #12, 1 #12 GROUND. 3/4"C. — 4#12, 1#12 GROUND - 3/4"C. ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMERALS INDICATE PANEL AND CIRCUIT NUMBER
- FLEXIBLE CONDUIT CONNECTION
- SURFACE MOUNTED CONDUIT, RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES

TELEPHONE & TV SYSTEM

- WALL OUTLET - 4" SQ X 2-1/8" DEEP BOX @ 18" A.F.F. TO C/L OF DEVICE U.N.O.; INSTALL 3/4"C. TO ACCESSIBLE LOCATION ABOVE CEILING. COMMUNICATIONS CONTRACTOR SHALL PROVIDE COVERPLATES, INSERTS, ETC.
- C WALL OUTLET - 4" SQ X 2-1/8" DEEP BOX @ 6" ABOVE COUNTER TO C/L OF DEVICE U.N.O.; INSTALL 3/4"C. TO ACCESSIBLE LOCATION ABOVE CEILING. COMMUNICATIONS CONTRACTOR SHALL PROVIDE COVERPLATES, INSERTS, ETC.;
- C,H WALL OUTLET - 4" SQ X 2-1/8" DEEP BOX @ 6" HORIZONTALLY ABOVE COUNTER TO C/L OF DEVICE. INSTALL 3/4"C. TO ACCESSIBLE LOCATION ABOVE CEILING. COMMUNICATIONS CONTRACTOR SHALL PROVIDE COVERPLATES, INSERTS, ETC.
- CBB 3/4" (4x8" HIGH) TELEPHONE BACKBOARD EXTERIOR GRADE PLYWOOD WITH TWO COATS OF INSULATING VARNISH. SIZE AS SHOWN
- TV TELEVISION CABLE WALL OUTLET - 4" SQ X 2-1/8" DEEP BOX, INSTALL 3/4"C TO ACCESSIBLE LOCATION ABOVE CEILING. COMMUNICATIONS CONTRACTOR SHALL PROVIDE COVERPLATES, INSERTS, ETC. MOUNT 18" A.F.F. TO C/L OF DEVICE U.N.O.

WALL OUTLETS

- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- T DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE. TAMPER RESISTANT
- G DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE.
- H DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE. 'H' DENOTES DEVICE TO BE MOUNTED HORIZONTALLY.
- WP DUPLEX WEATHERTIGHT/WEATHER-RESISTANT (WR) RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE WEATHERPROOF BOX FOR RECEPTACLE. DEVICE MUST COMPLY WITH NEC 406.9
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT FLUSH IN CEILING.
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT ADJACENT TO TELEVISION OUTLET AT SAME HEIGHT.
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- G DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- G,H DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER. HORIZONTALLY
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 24" AFF TO C/L FOR DRINKING FOUNTAIN. HOMERUN TO BE TERMINATED ON GFCI BREAKER PER NEC 210.8
- QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- H QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE. 'H' DENOTES DEVICE TO BE MOUNTED HORIZONTALLY.
- 240V RECEPTACLE - MOUNT 18" AFF UNLESS NOTED OTHERWISE, VERIFY TYPE REQUIRED WITH EQUIPMENT FURNISHED
- JB JUNCTION BOX WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION
- SURFACE-MOUNTED JUNCTION BOX WITH BLANK SCREW COVER (UNLESS DEVICE SHOWN TO BE INSTALLED). SIZE OF BOX TO BE DETERMINED BY DEVICE BEING INSTALLED
- WALL MOUNTED EXIT LIGHT
- WALL MOUNTED HIGH INTENSITY DISCHARGE FIXTURE
- WALL MOUNTED EMERGENCY UNIT BATTERY PACK.
- WALL MOUNTED EXIT LIGHT/BATTERY PACK COMBO FIXTURE
- SIDEWALK PHOTOCELL EQUAL TO TORK #2101 (120V)
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE, LABEL "COMPUTER USE ONLY"

MISCELLANEOUS

A.F.F.	ABOVE FINISH FLOOR
B.F.C.	BELOW FINISHED CEILING
*	EXISTING
IG	ISOLATED GROUND
CBB	COMMUNICATION BACKBOARD
FACP	FIRE ALARM CONTROL PANEL

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER AND CATALOG No.	LAMPS No.	LAMPS TYPE	MOUNTING	REMARKS
LP2	H.E. WILLIAMS 49P-22-4S(31151)(8CS)(4000K)-DIM-UNV	25W 4000K	LED	CEILING LAY-IN	2'X2' LED FLAT PANEL LAY-IN STD 0-10V DIMMING, UNV VOLT
LP4	H.E. WILLIAMS 49P-24-4S(35161)(8CS)(4000K)-DIM-UNV	30W 4000K	LED	CEILING LAY-IN	2'X4' LED FLAT PANEL LAY-IN STD 0-10V DIMMING, UNV VOLT
X	CHLORIDE #CLXARW	1	LED	CEILING/WALL MOUNT	THERMOPLASTIC LED EXIT SIGN, SELF DIAGNOSTICS, 120V, USE PUNCH-OUTS TO SHOW DIRECTIONAL ARROWS AS DENOTED ON DRAWINGS, AC ONLY

Digitally signed by Anthony L. Davis
DN: c=US, st=Florida, l=Pensacola, cn=Anthony L. Davis, O="WATFORD ENGINEERING, INC.", SERIALNUMBER=WATL20230418094551, L=Marianna, S=Florida, C=US
Date: 2025.08.12 11:18:57-05'00'

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Electrical Eng.1123
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GMC
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Gerald Steven Jernigan – Qualifying Agent
FL Architect AR 0009953

ISSUE	DATE
Bid Documents	08/08/2025

DRAWN BY: MBS
CHECKED BY: ALD

City of Milton Utility Workforce Training / Operations Facility in Conjunction with Agreement HL173
6794 Dixon St.
Milton, FL
GMC Project #: APEN240038

ELECTRICAL LEGEND, GENERAL NOTES AND DETAILS

E0.01

NOTE THAT EXISTING FPE SWITCHGEAR IS 400A AND IS BEING REPLACED WITH 400A MAIN BREAKER PANEL.

120/240 VOLT 3Ø 4W
400 AMP MAIN BREAKER
SERVICE-RATED

CIRCUIT BREAKER PANEL SCHEDULE
PANEL 'MP1'

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	LOAD KVA		BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	↑	↑	↑		1.5	20 Ⓞ	1	SPARE	2
3	PMP-1	2	20 Ⓞ	20.92	--	--	1	SPINCLR LEG (NO 120V LOADS)	4
5	↓	↓	↓		0.72	20	1	REC TRIMMING	6
7	↑	↑	↑		0.54	20	1	REC TRIMMING	8
9	AC-1	3	40 Ⓞ	XXX	--	--	1	SPINCLR LEG (NO 120V LOADS)	10
11	↓	↓	↓		0.36	20	1	REC TRIMMING	12
13	↑	↑	↑		0.54	20	1	REC TRIMMING	14
15	AC-2	3	40 Ⓞ	XXX	--	--	1	SPINCLR LEG (NO 120V LOADS)	16
17	↓	↓	↓		0.54	20	1	REC TRIMMING	18
19	COMPUTER	2	60	XXX	0.1	20	1	EXISTING GENERATOR CIR	20
21	↑	↑	↑		--	--	1	SPINCLR LEG (NO 120V LOADS)	22
23	COMPUTER	2	30	XXX	--	30	2	SPARE	24
25	↓	↓	↓		--	↓	↓	↓	26
27	SPINCLR LEG (NO 120V LOADS)	1	↑	↑	--	--	1	SPINCLR LEG (NO 120V LOADS)	28
29	PANEL 'LP3'	3	100	XXX	--	20	1	SPARE	30
31	↓	↓	↓		--	20	1	SPARE	32
33	SPINCLR LEG (NO 120V LOADS)	1	↑	↑	--	20	1	SPINCLR LEG (NO 120V LOADS)	34
35	SPARE	2	30	XXX	--	20	1	SPARE	36
37	↓	↓	↓		--	20	1	SPARE	38
39	↑	↑	↑		--	20	1	SPINCLR LEG (NO 120V LOADS)	40
41	AHU-1	2	30 Ⓞ	XXX	1.5	20	2	EXISTING GENERATOR CIR	42
43	↓	↓	↓			↓	↓	↓	44
45	↑	↑	↑		--	--	1	SPINCLR LEG (NO 120V LOADS)	46
47	AHU-2	2	30 Ⓞ	XXX			2	SPACE	48
49	↓	↓	↓			↓	↓	↓	50
51	SPINCLR LEG (NO 120V LOADS)	1	--		--	--	1	SPINCLR LEG (NO 120V LOADS)	52
53	PANEL 'LP1'	3	150	XXX	--	40	2	SPARE	54
55	↓	↓	↓			↓	↓	↓	56
57	SPINCLR LEG (NO 120V LOADS)	1	--		--	--	1	SPINCLR LEG (NO 120V LOADS)	58
59	SPACE	1	--		--	--	1	SPACE	60
61	↑	↑	↑			↑	↑	↑	62
63	PANEL 'LP3'	3	100	XXX	--	30	2	SURGE SUPPRESSOR	64
65	↓	↓	↓			↓	↓	↓	66

Ⓞ INDICATED BREAKER; VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED

TOTAL CONNECTED LOAD: XXX KVA
MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

DURING DESIGNER'S SITE VISIT, MAIN ELECTRICAL ROOM WAS INACCESSIBLE. PRIOR TO ORDERING GEAR, EC TO VERIFY AMPACITY OF ALL CIRCUITS AND ADJUST BREAKERS SO THEY DONT EXCEED THE CIRCUIT AMPACITY.

120/240 VOLT 1Ø 3W
225 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
PANEL 'LP1'

FLUSH MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	LOAD KVA		BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	SPARE	1	20	--	--	20	1	SPARE	2
3	**EXISTING	1	20	--	--	20	1	**EXISTING	4
5	**EXISTING	1	20	--	--	20	1	**EXISTING	6
7	**EXISTING	1	20	--	--	20	1	**EXISTING	8
9	**EXISTING	1	20	--	--	20	1	EXISTING	10
11	EXISTING	1	20	--	--	20	1	EXISTING	12
13	EXISTING	1	20	--	--	20	1	EXISTING	14
15	EXISTING	1	20	--	--	20	1	EXISTING	16
17	EXISTING	1	20	--	--	20	1	EXISTING	18
19	**EXISTING	1	20	--	--	20	1	EXISTING	20
21	EXISTING	1	20	--	--	20	1	EXISTING	22
23	EXISTING	1	20	--	--	20	1	EXISTING	24
25	EXISTING	1	20	--	--	20	1	EXISTING	26
27	EXISTING	1	20	--	--	20	1	EXISTING	28
29	EXISTING	1	20	--	--	20	2	**EXISTING	30
31	EXISTING	1	20	--	--	↓	↓	↓	32
33	**EXISTING	1	20	--	--	20	1	EXISTING	34
35	**EXISTING	2	30	--	--	20	1	SPARE	36
37	↓	↓	↓		--	20	1	SPARE	38
39	SPARE	1	20	--	--	20	1	SPARE	40
41	SPARE	1	20	--	--	20	1	SPARE	42

TOTAL CONNECTED LOAD: 8.66 KVA
MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

*EXISTING BREAKER IN THIS SPACE IS 30/1, BUT WIRE APPEARS TO BE LESS THAN #10CU. EC TO FIELD VERIFY THE LOAD (A SIDE) OF THE CIRCUIT AND DETERMINE IF 20/1 IS SUFFICIENT FOR LOAD. PER PANEL SCHEDULE, IT APPEARS CKT FEEDS RECEPTACLES.

**BREAKER HAS TWO (2) CIRCUITS CONNECTED TO LOAD SIDE. EC TO VERIFY LOADS AND SEPARATE TO INDEPENDENT BREAKERS (SIZED PER CIRCUIT/LOAD). SPARES MAY BE USED FOR SEPARATION OF DOUBLE CKTS.

***BREAKER IS IN OFF POSITION WHICH LEADS TO BELIEVE LOAD IS NO LONGER ACTIVE. EC TO FIELD VERIFY W/ OWNER. IF NEEDED, BREAKER CAN BE REPLACED WITH TWO (2) 20/1 BREAKERS AND USED FOR DOUBLE CKTS.

120/240 VOLT 3ø 4W
100 AMP MAIN BREAKER
SERVICE-RATED

CIRCUIT BREAKER PANEL SCHEDULE
EXISTING PANEL 'LP3'

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	LOAD KVA		BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	↑	↑	↑		--	40	2	EXISTING CIRCUIT	2
3	EXISTING MAIN BREAKER	3	100	--		↓	↓	↓	4
5	↓	↓	↓		--	15	1	EXISTING CIRCUIT	6
7	↑	↑	↑		--	20	1	EXISTING CIRCUIT	8
9	EXISTING CIRCUIT	3	60	--		--	1	EXISTING SPACE	10
11	↓	↓	↓		--	20	1	EXISTING CIRCUIT	12
13	EXISTING CIRCUIT	1	20	--	--	20	1	EXISTING CIRCUIT	14
15	EXISTING SPACE	1	--		3.65	0(DP)(-)	2	(1) (EXISTING SPACE) DHP-1	16
17	EXISTING CIRCUIT	2	30	--		↓(-)	1	(1) (EXISTING SPACE) ↓	18
19	↓	↓	↓		0.2	20(-)	1	(1) (EXISTING SPACE) CBB	20
21	EXISTING SPACE	1	--		0.2	20(-)	1	(1) (EXISTING SPACE) CBB	22
23	EXISTING SPACE	1	--			--	1	EXISTING SPACE	24
25	EXISTING SPACE	1	--			--	1	EXISTING SPACE	26
27	EXISTING SPACE	1	--			--	1	EXISTING SPACE	28
29	EXISTING SPACE	1	--			--	1	EXISTING SPACE	30

Ⓞ INDICATED BREAKER; VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED

MINIMUM INTERRUPTING CAPACITY: 42,000 AMPS SYMMETRICAL

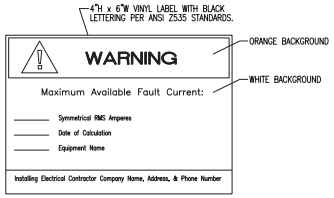
120/240 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
EXISTING PANEL 'LP4'

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	LOAD KVA		BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	EXISTING CIRCUIT	1	20	--	--	20	1	EXISTING CIRCUIT	2
3	EXISTING CIRCUIT	1	20	--	--	15	1	EXISTING CIRCUIT	4
5	EXISTING CIRCUIT	1	20	--	--	20	1	EXISTING CIRCUIT	6
7	EXISTING CIRCUIT	1	20	--	--	20	1	EXISTING CIRCUIT	8

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL



1 0.02 TYPICAL SERVICE EQUIPMENT FAULT CURRENT LABEL DETAIL
NOT TO SCALE

EXAMPLE PANELBOARD LABEL

PANEL PC
208Y/120V, 3Ø
FED FROM PANEL P2LB

ENGRAVED PLASTIC TAG WITH 1/4" HIGH WHITE LETTERS ON BLACK BACKGROUND (RED BACKGROUND FOR EMERGENCY EQUIPMENT). TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH 2 CHROME (STAINLESS STEEL FOR WET OR DAMP LOCATIONS) SCREWS.

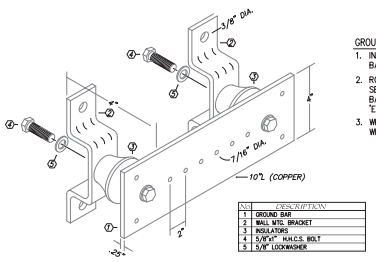
2 0.02 TYPICAL PANELBOARD LABELING DETAIL
NOT TO SCALE

EXAMPLE DISCONNECT LABEL

FED FROM PANEL PC
208V, 3Ø
CKT #1,3,5

ENGRAVED PLASTIC TAG WITH 1/4" HIGH WHITE LETTERS ON BLACK BACKGROUND (RED BACKGROUND FOR EMERGENCY EQUIPMENT). TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH 2 CHROME (STAINLESS STEEL FOR WET OR DAMP LOCATIONS) SCREWS.

3 0.02 TYPICAL DISCONNECT LABELING DETAIL
NOT TO SCALE



NO.	DESCRIPTION
1	GROUND BAR
2	WALL MTG. BRACKET
3	INSULATORS
4	5/8"X4" H.H.C.S. BOLT
5	5/8" LOCKWASHER

GROUND BAR NOTES:

1. INSTALL ONE BAR AT EACH COMMUNICATIONS BACKBOARD.
2. ROUTE 1#1 BARE CU IN 2"C. TO MAIN ELECTRICAL SERVICE GND LOCATED AT PANEL 'MP1' FROM BAR BAR ON MAIN COMM. BACKBOARD. REFER TO SHEET 'E2.01'
3. WHERE ADDITIONAL 'CBB's MAY EXIST, CONNECT BARS WITH 1#6 BARE CU IN 1"C.

4 0.02 'CBB' INSULATED GROUNDING BUSAR DETAIL
NOT TO SCALE

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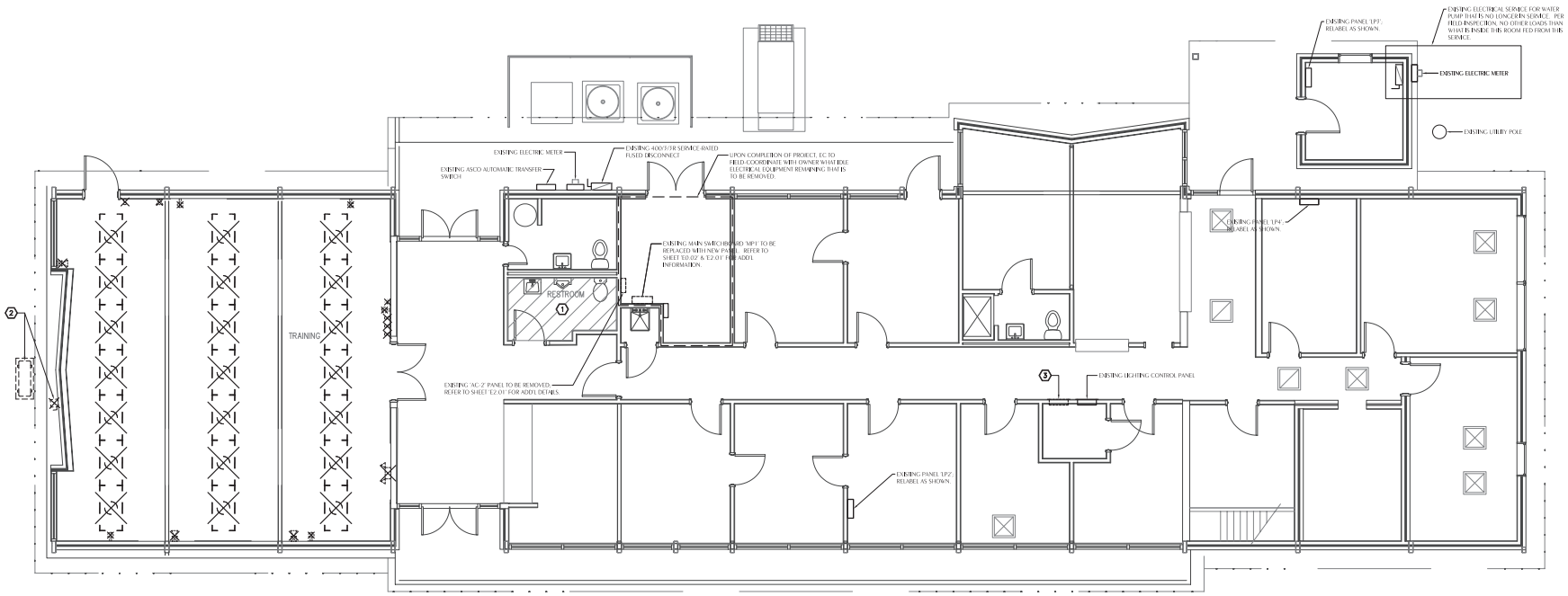
POWER RISER DIAGRAM AND DETAILS

E0.02



1 ELECTRICAL DEMOLITION PLAN
E1.01
SCALE: 1/4" = 1'-0"

ELECTRICAL DEMOLITION LEGEND (THIS SHEET ONLY)

WALL OUTLETS

- EXISTING DUPLEX RECEPTACLE TO BE REMOVED.
- EXISTING DATA OUTLET TO BE REMOVED.
- EXISTING JUNCTION BOX TO BE REMOVED.
- WALL MOUNTED SWITCH TO BE REMOVED.
- WALL MOUNTED EMERGENCY UNIT BATTERY PACK TO BE REMOVED.
- EXISTING DISCONNECT TO BE REMOVED.

CEILING OUTLETS

- EXISTING RECESSED 2' x 4' FLUORESCENT/LED LIGHTING FIXTURE TO BE REMOVED.

GENERAL NOTES

1. PRIOR TO REMOVAL OF LIGHT FIXTURES, EC TO DOCUMENT THE SWITCHING SCHEME IN EACH AREA. TAKE NOTE OF THE LOCATION OF ANY 3 WAY SWITCHES, EMERGENCY BATTERY BACKUP LIGHTS, AND MOTION LIGHT FIXTURES WIRED FOR 24-HOUR CONTINUOUS OPERATION. PREPARE TO MAINTAIN FUNCTIONALITY OF THOSE DEVICES IN NEW WORK, CARRYING A 120V CONTINUOUS HOT AND TRAVELERS THROUGHOUT CIRCUIT AS NEEDED.

DEMOLITION SHEET NOTES

1. REMOVE ALL LIGHTING FIXTURE(S) AND LIGHTING WHIPS WITHIN SHADED REGION. EXISTING CIRCUIT AND BREAKER TO REMAIN AND BE REUSED WITH NEW FIXTURES. EC TO INSTALL NEW WHIPS BETWEEN NEW LIGHTING FIXTURES. SEE NEW WORK, SHEET E2.01, FOR MORE INFORMATION.
2. PER MECHANICAL DESIGN, EXISTING MECHANICAL EQUIPMENT TO BE REMOVED BY OTHERS. EC TO REMOVE DISCONNECT FOR MECHANICAL UNIT. EXISTING CIRCUIT TO BE REMOVED BACK TO PANEL SERVING UNIT.
3. EC TO REMOVE EXISTING FEDERAL PACIFIC, TYPE NALP, 225AMP, MAIN LUG ONLY, 240V/1-20, 1 ϕ, 3W PANELBOARD. REFER TO POWER RISER DIAGRAM, SHEET 'E0.02', AND 'ELECTRICAL NEW WORK - POWER PLAN', SHEET 'E2.01', FOR MORE INFORMATION.

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CHECKED BY:

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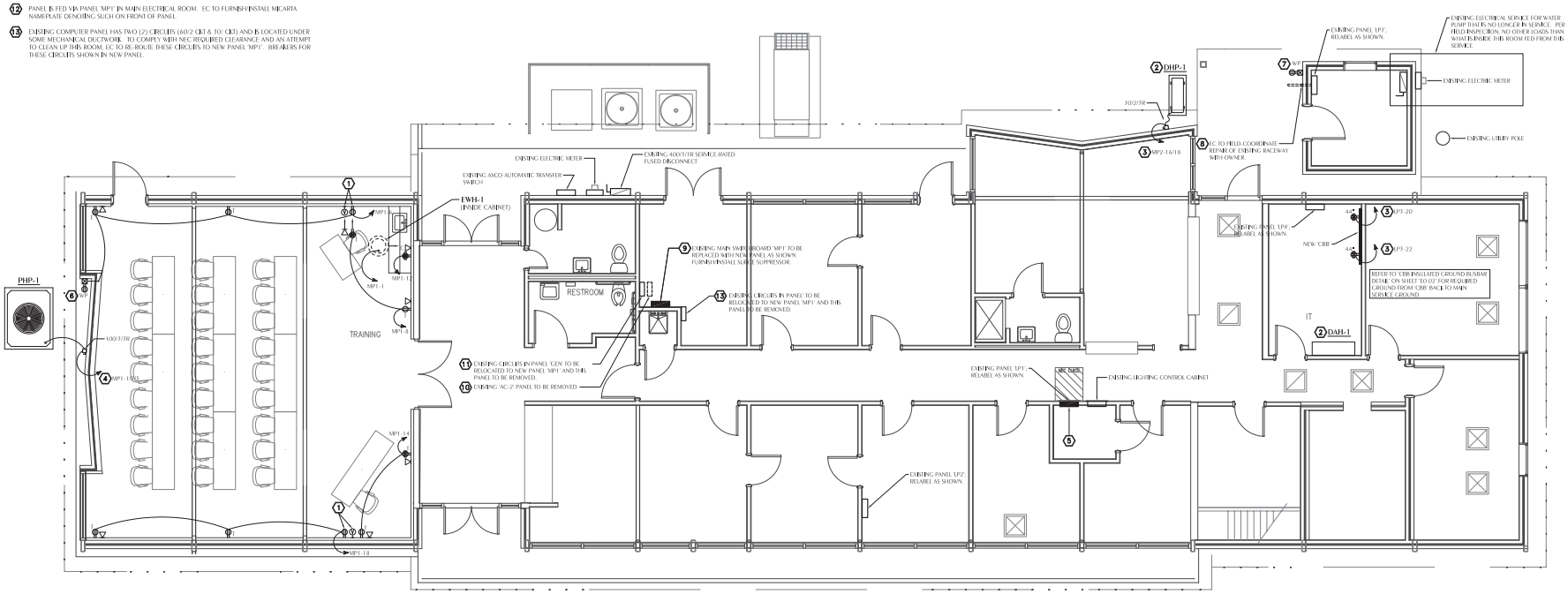
GMC Project #: APEN240038

ELECTRICAL DEMOLITION PLAN

E1.01

NEW WORK POWER PLAN SHEET NOTES

1. PRIOR TO ROUGH-IN, EC SHALL FIELD-COORDINATE WITH GC/OWNER FOR EXACT MOUNTING LOCATIONS/HEIGHT OF DEVICES FOR TV.
2. PER MECHANICAL DESIGN, INTERIOR UNIT IS TO BE POWERED BY EXTERIOR UNIT VIA LOW VOLTAGE CABLE. PRIOR TO ROUGH-IN, EC TO FIELD-COORDINATE EXACT TYPE OF CABLE REQUIRED. DURING TIME OF DESIGN, THE EXACT CIRCUIT REQUIRED WAS UNKNOWN PER THE MECHANICAL ENGINEER'S CUTSHEETS. FOR BID PURPOSES, EC TO INCLUDE INSTALLING 4#14 IN 3-4"C BETWEEN UNITS.
3. EC SHALL INSTALL 2#10, 1#10GND IN 3/4" CONDUIT.
4. EC SHALL INSTALL 3#4, 1#8GND IN 1-1/4" CONDUIT.
5. EC TO REPLACE EXISTING FEDERAL PACIFIC PANEL WITH NEW FLUSH-MOUNTED 225A, MAIN LUG ONLY, 240V/120, 1φ, 3W, 42-SPACE PANELBOARD. NEW PANEL SHALL BE RECESSED INTO EXISTING OPENING IN CMU WALL. PRIOR TO ORDERING NEW PANEL, EC SHALL TAKE FIELD MEASUREMENTS AND ENSURE NEW PANEL WILL FIT PROPERLY IN EXISTING LOCATION.
6. FOR SERVICING/MAINTENANCE OF HVAC EQUIPMENT AND TO COMPLY WITH NEC, EC TO INSTALL GFCI RECEPTACLE IN WEATHERPROOF JUNCTION BOX.
7. FOR SERVICING/MAINTENANCE OF HVAC EQUIPMENT AND TO COMPLY WITH NEC, EC TO REPLACE EXISTING RECEPTACLE WITH FUNCTIONING GFCI RECEPTACLE. FIELD-VERIFY THAT CONTINUITY OF THE EXISTING 120V CIRCUIT TO THE PANEL.
8. EXISTING FEEDER TO PANEL 'LP3' FROM MAIN SWITCHBOARD 'MP1' FEEDS VIA WALL/LB DOWN TO UNDER GRADE ON THE EXTERIOR OF ROOM. THE EXISTING RMC IS RUSTED THROUGH AT GROUND LEVEL AND THE WIRE APPEARS TO BE DAMAGED. EC TO INCLUDE LABOR/MATERIALS FOR INSTALLING A WEATHERPROOF J-BOX AT BASE OF WALL AND SPLICING TO NEW SECTION OF FEEDER TO 100A M.B. IN PANEL ON INTERIOR.
9. EXISTING SWITCHBOARD IS FPE (120/240V, 3-PHASE, 400A M.B.) AND NEEDS REPLACING DUE TO THE FACT THAT PARTS ARE UNAVAILABLE AND IT CAN'T BE SERVICED. EC TO REMOVE AND RECONNECT ALL EXISTING FEEDERS/CIRCUITS FEEDING ACTIVE LOADS TO REMAIN. REFER TO PANEL SCHEDULE.
10. BUCKET IN FPE SWITCHGEAR FEEDING 'AC-2' APPEARS TO HAVE FAULTED OVER TIME AND THIS UNIT WAS FED VIA A SUBPANEL ON WALL ADJACENT TO SWITCHGEAR. EC TO RECONNECT UNIT TO NEW PANEL 'MP1' AND REMOVE EXISTING SUBPANEL.
11. EXISTING GENERATOR PANEL HAS TWO (2) CIRCUITS (20/2 CBT & 20/1 CBT) AND IS LOCATED UNDER SOME MECHANICAL PIPING. TO COMPLY WITH NEC REQUIRED CLEARANCE AND AN ATTEMPT TO CLEAN UP THIS ROOM, EC TO RE-ROUTE THESE CIRCUITS TO NEW PANEL 'MP1'. BREAKERS FOR THESE CIRCUITS SHOWN IN NEW PANEL.
12. PANEL IS FED VIA PANEL 'MP1' IN MAIN ELECTRICAL ROOM. EC TO FURNISH/INSTALL MICARTA NAMEPLATE DENOTING SUCH ON FRONT OF PANEL.
13. EXISTING COMPUTER PANEL HAS TWO (2) CIRCUITS (60/2 CBT & 70/1 CBT) AND IS LOCATED UNDER SOME MECHANICAL DUCTWORK. TO COMPLY WITH NEC REQUIRED CLEARANCE AND AN ATTEMPT TO CLEAN UP THIS ROOM, EC TO RE-ROUTE THESE CIRCUITS TO NEW PANEL 'MP1'. BREAKERS FOR THESE CIRCUITS SHOWN IN NEW PANEL.



ELECTRICAL NEW WORK - POWER PLAN

E2.01

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

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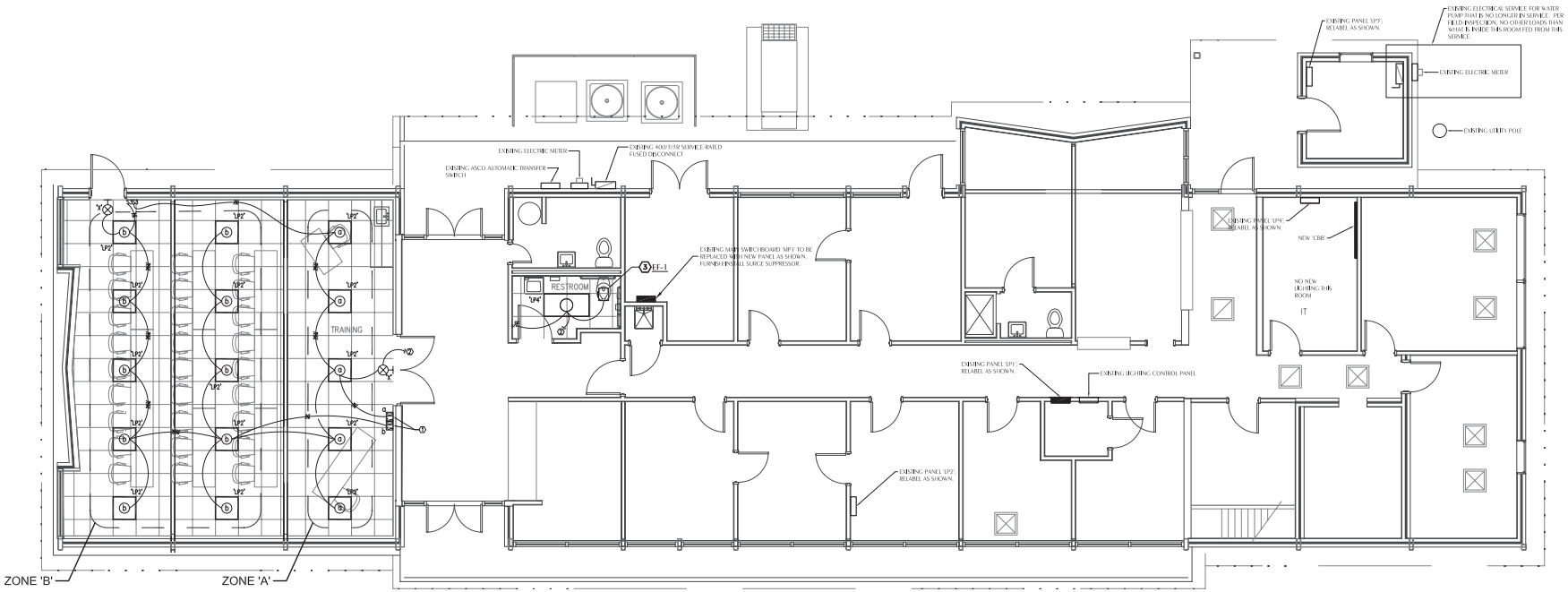
ELECTRICAL NEW WORK - POWER PLAN

E2.01

NEW WORK LIGHTING PLAN SHEET NOTES

1. EC SHALL REFER TO 'ELECTRICAL LEGEND' FOR REQUIRED 0-10V WIRE CIRCUIT FOR DIMMING.
2. EC TO CONNECT TO PREVIOUS LIGHTING CIRCUIT SERVING AREA. SEE DEMOLITION PLAN, SHEET 'E1.01'.
3. PER MECHANICAL DESIGN, EXHAUST FAN TO BE FURNISHED WITH INTEGRAL DISCONNECT. EC SHALL INTERLOCK EXHAUST FAN WITH LIGHTING FIXTURE SERVING AREA.



1 E2.02 **ELECTRICAL NEW WORK - LIGHTING PLAN**

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

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ELECTRICAL NEW WORK - LIGHTING PLAN

E2.02

ELECTRICAL

ELECTRICAL WORK GENERAL PROVISIONS

PART 1 – GENERAL

1.01 DESCRIPTION OF WORK

A. Provide all labor, materials and equipment for a complete and operating electrical system.

B. Codes and Standards: All electrical work shall be in strict compliance with OSHA requirements, the 2020 National Electrical Code, the local county electrical code and Power Company standards. All materials shall be new and free from defects, and shall bear the Underwriters' label for its intended use.

C. Permits, Fees and Notices: Secure and pay for all required by the work of this Division. Provide final inspection certificate(s) as applicable.

D. Contractor shall thoroughly investigate site before bidding. No changes will be allowed in contract price for work required to comply with existing conditions.

E. Workmanship shall meet N.E.C.A. guidelines.

F. If, through errors or omissions, the intent of Architect/Engineer with regard to any detail is not clear, or is capable of more than one interpretation, such matters must be brought to the attention of the Architect/Engineer in writing before the submission of bids, and the Architect/Engineer shall make correction or explanation in writing. Otherwise, no extra charge will be allowed for the work or material which the Architect/Engineer will require, provided that it comes within a reasonable interpretation of the Drawings and Specifications.

G. The plans and specifications are intended as a general description of the work to be performed. All items not specifically mentioned or shown, but necessary for the completion of the installation , shall be furnished and installed by this Contractor. This Contractor shall thoroughly acquaint himself with the Mechanical, Architectural, Structural and Electrical plans before submitting his final bid. No additional compensation will be allowed due to the Contractor's failure to familiarize himself with the plans.

1.02 SUBMITTALS

Submit five (5) copies of technical information on all major equipment in binders. Mark-up prints of the design drawings with red pencil as items are installed, and submit two copies showing an accurate "As-Built" record of the entire system. Give the Owner instructions in operation of the system. Secure from the Owner a signed memo stating that technical information, as-built drawings and instructions in operation have been received. Submit memo to the Architect.

PART 2 – PRODUCTS

2.01 CONDUIT

A. All wires shall be concealed in conduit, (1/2" min.) including grounding wires. When conduit is located below slab on grade or underground, it shall be PVC Schedule 40 (3/4" min.). Provide all empty conduits with pullwires. EMT and ENT may be used where permitted by code. Conduits shall be sized per N.E.C.

2.02 CONDUCTORS

A. All conductors shall be copper (#12 min), THHN/THWN insulation. Where local authorities permit, MC cable may be used. Comply with the N.E.C. Articles 300 and 310. All conductors shall be new, free from kinks and other defects when installed. Where local authorities permit, aluminum conductors may be used for service entrance and panel feeders as indicated on riser diagrams. The use of Romex is NOT allowed.

2.03 SUPPORTS

A. Provide all supports for material and equipment.

2.04 COVER PLATES

A. All plates shall be white plastic.

2.05 RECEPTACLES

A. Provide standard grade 20 amp, 2 pole, 3 wire, with back and side wiring capability and suitable for split circuit operation.

B. Ground Fault Interrupter: Provide "specification grade" duplex receptacles, ground fault circuit interrupters (GFI), feed-thru type, capable of protecting connected downstream receptacles on single circuit, grounding type UL rated Class A, 20 amperes rating, 120 volts, with solid state ground fault sensing and signaling, 5 milliamperes ground fault trip level; and equip with local test/reset buttons.

2.06 SWITCHES

A. Provide silent type standard grade 20 amp, 120V for all single pole, double pole, three-way and four-way switches.

2.07 LIGHTING FIXTURES

A. Fixture schedule shows required type of fixture only. Determine modifications required to make fixtures suitable for ceilings as installed, and furnish fixtures adapted to the ceiling used. Fixtures shall be U.L. approved. This contractor shall protect the fixtures and lamps and shall replace broken parts. All lenses and louvers in any area shall be cleaned after all trades have completed their work in that area. Provide new lamps for all lighting fixtures.

2.08 DISCONNECT SWITCHES

A. Shall be HEAVY-DUTY safety switches with 100,000A short circuit rating, and shall be listed in accordance with U.L. 98. The cover shall be interlocked so that the door cannot be opened with the handle in the "on" position, except by the intentional operation of a concealed release (defeater) mechanism.

PART 3 – EXECUTION

3.01 APPARATUS IDENTIFICATION

A. Panelboard, circuit breakers in panelboards, motor disconnect switches, starters and other apparatus used for the operation or control of, circuits, appliances or equipment shall be properly identified by means of engraved laminated plastic descriptive nameplates mounted on the apparatus using contact cement. Cardholders in any form are acceptable for living units.

3.02 GROUNDING

A. A separate grounding conductor, sized in accordance with NEC Table 250-95 shall be provided in the conduit with the circuit conductors for all lighting, power and feeder circuits.

B. All electrical equipment enclosures and conductor enclosures shall be grounded.

3.03 INSTALLATION:

A. The Contractor shall adapt his work to job conditions and make such changes as required and permitted by the Architect, such as moving his work to clear beams, joists, and adjusting his risers or other apparatus to avoid interferences with windows and openings: or raising or lowering his work to permit the passing of ductwork or the work of other trade: all as required or as job conditions dictate, without any additional costs to the Owner.

B. Examine areas and conditions under which work is to be performed and products are to be installed and notify General Contractor in writing of conditions detrimental to proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Installer.

C. Do not allow or cause any of the work of this division or cause other divisions of work to be covered up or enclosed until it has been inspected, tested and approved by the Architect and by all other authorities having jurisdiction.

D. All switchboards, panelboards, transformers, switches, outlets, coverplates, signs, lighting fixtures, and any and all other electrical equipment provided shall be thoroughly cleaned of all dirt, oil, concrete, etc. Any dents, scratches or other visible blemishes shall be corrected and the appearance and corrosion resistance of the equipment made "like new", to the satisfaction for the Architect/Engineer.

E. Perform all adjustments necessary to ensure proper system operation in accordance with manufacturer written instructions.

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GMC Project #: APEN240038

ELECTRICAL SPECS

E3.01