



ELECTRICAL PLAN

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



- ## LEGEND
- CEILING MTG. FIXTURE
 - WALL SCONCE FIXTURE W/ 90 MIN. BATTERY BACKUP
 - LIGHT W/ PULL CHAIN
 - VENT
 - EXIT - EXIT LIGHT W/ 90 MIN. BATTERY BACKUP
 - EMERGENCY LIGHT W/ 90 MIN. BATTERY BACKUP
 - SWITCH
 - 3 WAY SWITCH
 - DUPLEX RECEPTACLE
 - GFI RECEPTACLE
 - QUAD RECEPTACLE
 - DISCONNECT SWITCH
 - POWER PANEL
 - HOT WATER HEATER WITH DISCONNECT
 - 220 OUTLET
 - SMOKE DETECTOR
 - PHONE
 - 4' FLUORESCENT FIXTURE
 - 8' FLUORESCENT FIXTURE
 - PAINT BOOTH AIR INLET
 - PAINT BOOTH ELECTRICAL DROP
 - PAINT BOOTH GAS TRAIL INLET
 - PAINT BOOTH ELECTRIC MOTOR

ELECTRICAL NOTES

- ALL WORK SHALL COMPLY TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE, AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED.
- ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
- THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES, RECEPTACLES, AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD. UNLESS OTHERWISE NOTED.
- PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID, ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
- WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
- ELECTRICAL CONTRACTOR, BEFORE INSTALLING AND OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
- PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.
- ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE I.E.E.E. AND THE NATIONAL ELECTRICAL CODE.
- MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION, MINIMUM SIZE CONDUIT SHALL BE 3/4" E.M.T. FOR INTERIOR USE, AND 3/4" RIGID ALUMINUM FOR EXTERIOR USE. USE TYPE NMC CABLE IN CONTROL ROOM BUILDING FOR LIGHTS AND RECEPTACLE CIRCUITS. EXTERIOR FITTINGS SHALL BE CAST BOXES AND COVERS. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS. STAMPED BOXES MAY BE USED ABOVE CEILINGS IN AIR CONDITIONED SPACES.
- CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
- INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WEATHERPROOF.
- BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:250-238.
- FUSES SHALL BE ITT CLASS KS, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
- PROVIDE SERVICES OF A FIRE/SMOKE DETECTION & ALARM COMPANY TO DESIGN & INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHAL.
- ALL ELECTRICAL, MECHANICAL, & PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
- ALL J BOXES FOR EXTERIOR SIGNS SHALL BE INSIDE BUILDING.
- ALL HVAC AIR HANDLERS WITH ELECTRICAL HEAT STRIPS AND COMPRESSORS SHALL BE 3Ø.

NEW PANEL P-2
LOCATION: MAIN BUILDING
FEEDER SOURCE: CLECO

VOLTAGE: 208/120V, 400A 3Ø, 4W
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GRND BAR
SQUARE D TYPE 00 LOAD CENTER

CCT NO.	LOAD DESCRIPTION	BREAKER AMP	POLE	LOAD (VA)	A B C			LOAD (VA)	BREAKER AMP	POLE	LOAD DESCRIPTION	CCT NO.	
					A	B	C						
1	PAINT BOOTH 1 LIGHTS	20	1	1200	⌋	⌋	⌋	1200	1	20	PAINT BOOTH 1 LIGHTS	2	
3	PAINT BOOTH 2 LIGHTS	20	1	1200	⌋	⌋	⌋	1200	1	20	PAINT BOOTH 2 LIGHTS	4	
5	MIX ROOM LIGHTS	20	1	600	⌋	⌋	⌋	1200	1	20	BAY 1 & 2 LIGHTS	6	
7	BAY 3 & 4 LIGHTS	20	1	1200	⌋	⌋	⌋	600	1	20	WEST CORRIDOR LIGHTS	8	
9	RESTROOM LIGHTS/ FAN	20	1	400	⌋	⌋	⌋	600	1	20	EXTERIOR LIGHTS	10	
11	EXIT LIGHTS	20	1	400	⌋	⌋	⌋	400	1	20	EMERGENCY LIGHTS	12	
13	SMOKE DETECTORS	20	1	600	⌋	⌋	⌋	1000	1	20	WEST WALL RECEPTACLES	14	
15	BAY 1 RECEPTACLE	20	1	1200	⌋	⌋	⌋	1200	1	20	BAY 2 RECEPTACLE	16	
17	WATER HEATER	40	2	4500	⌋	⌋	⌋	16840	3	80	PAINT BOOTH 1 MOTOR	18	
19	PAINT BOOTH 1 MOTOR	80	3	16840	⌋	⌋	⌋	16840	3	80	PAINT BOOTH 2 MOTOR	20	
21	PAINT BOOTH 2 MOTOR	80	3	16840	⌋	⌋	⌋	1200	1	20	MIX ROOM MOTOR	22	
23	EXHAUST TRENCH MOTOR	30	3	6240	⌋	⌋	⌋	1200	1	20	BAY 3 RECEPTACLES	26	
25	TRENCH SLUMP PUMP	20	1	1200	⌋	⌋	⌋	-	1	20	SPARE	30	
27	SPARE	20	1	-	⌋	⌋	⌋	-	1	20	SPARE	32	
				TOTAL CONNECTED LOAD (VA)									
SOLID NEUTRAL NEUTRAL WIRE (N)				ME 32784 BR 32844 GR 30654				GROUND BUS GROUND WIRE (G)					