

WIRING DEVICE SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	HOMERUN TO LIGHTING/SERVICE PANEL. HOMERUN INDICATES PANEL NAME AND CIRCUIT NUMBER OR FEEDER TAG. CONDUCTORS SHALL BE #12 AWG IN 3/4" CONDUIT (1" UNDERGROUND) UNLESS NOTED OTHERWISE. HOMERUNS MAY BE COMBINED INTO A COMMON RACEWAY FOR 20A SINGLE PHASE CIRCUITS ONLY IF DEDICATED NEUTRALS ARE USED OR HANDLE TIES ARE PROVIDED ON CIRCUIT BREAKERS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE SAME TIME. MAXIMUM OF (6) #12 AWG CURRENT CARRYING CONDUCTORS SHALL BE PROVIDED IN RACEWAY. COMPLY WITH NEC FOR CONDUCTOR DERATING AND CONDUIT FILL.
	CONDUIT STUB
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	CONDUIT INSTALLED BELOW GRADE OR BELOW FINISHED FLOOR
	ELECTRICAL CONNECTION TO EQUIPMENT ITEM 'E101' (LETTER DESIGNATION AS APPLICABLE) - SEE CORRESPONDING EQUIPMENT CONNECTION SCHEDULE
	DUPLX RECEPTACLE AT 18" AFF. UNO. NEMA 5-20R.
	QUADRUPLEX RECEPTACLE AT 18" AFF. UNO. NEMA 5-20R.
	DUPLX RECEPTACLE - CEILING MOUNTED. NEMA 5-20R.
	DUPLX RECEPTACLE - FLOOR MOUNTED. NEMA 5-20R.
	SINGLE RECEPTACLE AT 18" AFF. UNO. NEMA 5-20R.
	FOR RECEPTACLES ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: GF - GROUND FAULT DEVICE IG - ISOLATED GROUND USB - DEVICE WITH USB PORT WP - WEATHERPROOF CR - CORD REEL C - MOUNTED @ ABOVE COUNTER
	SPECIAL PURPOSE RECEPTACLE - HEIGHT AND TYPE AS NOTED ON DRAWINGS
	SURFACE RACEWAY
	JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
	JUNCTION BOX - FLOOR MOUNTED. SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
	VERTICAL SERVICE POLE
	COMBINATION IN FLOOR POWER / DATA / A/V DEVICE.
	PUSHBUTTON
	MOTOR. SEE DRAWINGS FOR DESCRIPTION
	SAFETY DISCONNECT SWITCH. "30" INDICATES AMP RATING. "3P" INDICATES NUMBER OF POLES. "20" INDICATES FUSE SIZE. "1" INDICATES NEMA ENCLOSURE RATING (1, 3R, 4X, ETC). "HEAVY DUTY SAFETY SWITCH UNLESS NOTED OTHERWISE. "NF" INDICATES NON-FUSED.
	COMBINATION MOTOR STARTER
	MOTOR STARTER
	DOOR BELL

FIRE ALARM SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM ANNUNCIATOR PANEL - WALL MOUNTED AT 60" AFF TO CENTER, UNO
	FIRE ALARM CONTROL UNIT. "D" SUBSCRIPT INDICATES DEDICATED UNIT
	FIRE ALARM TERMINAL CABINET - WALL MOUNTED AT 72" AFF TO TOP, UNO
	AREA OF REFUGE EMERGENCY COMMUNICATION SYSTEM MASTER UNIT
	AREA OF REFUGE EMERGENCY COMMUNICATION SYSTEM REMOTE UNIT
	ELEVATOR STATUS / RECALL
	REMOTE TEST STATION FOR FA DUCT DETECTOR
	NOTIFICATION CIRCUIT POWER BOOSTER, EXTENDER PANEL. "n" = UNIT NUMBER
	PRE-ACTION SYSTEM / CONTROL UNIT
	SMOKE DAMPER
	ELEVATOR SHUTDOWN
	ELEVATOR RECALL
	ELEVATOR FIREMAN'S HAT LIGHT
	ELEVATOR SHUNT TRIP VOLTAGE MONITOR
	ADDRESSABLE INPUT MONITOR MODULE
	ADDRESSABLE OUTPUT MONITOR MODULE
	ISOLATION MODULE
	CO DETECTOR
	HEAT DETECTOR. "XX" = TYPE/BASIC SHAPE
	WATER FLOW DETECTOR / SWITCH
	NON-ADDRESSABLE OUTPUT RELAY
	SURGE SUPPRESSOR
	VALVE SUPERVISORY SWITCH
	FIRE ALARM PULL STATION AT 44" AFF. UNO
	FIRE ALARM SMOKE DETECTOR / SENSOR
	RELAY BASE
	SMOKE ALARM. SINGLE STATION
	SMOKE DETECTOR / SENSOR FOR DUCT
	FIRE ALARM SYSTEM BELL - SINGLE STROKE
	GONG
	COMBINATION HORN (VISIBLE); cd = CANDELA RATING
	COMBINATION SPEAKER (VISIBLE); W = WATTAGE, cd = CANDELA RATING
	HORN ONLY
	CEILING MOUNT INDICATOR
	REMOTE ALARM INDICATING AND TEST SWITCH
	SPEAKER ONLY. WALL MOUNT; W = WATTAGE
	VISIBLE ONLY (STROBE), CEILING MOUNT; CD = CANDELA RATING
	VISIBLE ONLY (STROBE), WALL MOUNT; CD = CANDELA RATING
	DOOR HOLDER
	SUBSCRIPT DEFINITIONS: C - CEILING MOUNTED WP - WEATHERPROOF WG - WIRE GUARD

LIGHTING & CONTROL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	20A SWITCH AT 44" CL AFF. UNO
	WALL DIMMER
	FOR SWITCH OR DIMMER ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: ab - SWITCHING SCHEME m - MOTOR RATED P - PILOT LIGHT 3 - 3-WAY SWITCH 4 - 4-WAY SWITCH o - OCCUPANCY SENSOR v - VACANCY SENSOR
	LIGHTING CONTROL OCCUPANCY SENSOR - CEILING MOUNTED
	LIGHTING CONTROL PHOTOCELL
	DAYLIGHT SENSOR
	INTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.
	LIGHT FIXTURE. HALF SHADING INDICATES EMERGENCY BACKUP. "NL" INDICATES 24/7 OPERATION (UNSWITCHED).
	EXTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.
	EMERGENCY LIGHTING FIXTURE. REFER TO LIGHT FIXTURE SCHEDULE
	EXIT SIGN. WHERE USED, ARROW INDICATES CHEVRON DIRECTION.
	CEILING FAN

TECHNOLOGY SYMBOL LEGEND	
SYMBOL	DESCRIPTION
UNLESS NOTED OTHERWISE ON DRAWINGS, FOR EACH DEVICE BELOW, PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG MUDRING AND 1" CONDUIT WITH PULL STRING TO ABOVE NEAREST ACCESSIBLE CEILING IN CORRIDOR. PROVIDE NYLON BUSHING ON CONDUIT END.	
	VOICE / DATA ROUGH-IN BOX. AT 18" AFF UNO. PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END.
	VOICE / DATA ROUGH-IN BOX, FLOOR-MOUNTED. PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END.
	TELEVISION OUTLET. SINGLE GANG BOX WITH SINGLE GANG PLASTER RING. PROVIDE 1/2" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END. PROVIDE WITH ADJACENT DUPLX RECEPTACLE.
	SECURITY CAMERA. COORDINATE REQUIREMENTS WITH OWNER.
	WIRELESS ACCESS POINT. CEILING MOUNTED UNLESS NOTED OTHERWISE ON PLAN. COORDINATE PROVISIONS AND REQUIREMENTS WITH OWNER.

DISTRIBUTION SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	ELECTRICAL PANEL, SURFACE MOUNTED.
	ELECTRICAL PANEL, FLUSH MOUNTED.
	TRANSFORMER
	AUTOMATIC TRANSFER SWITCH

LIGHTING CIRCUITING GUIDE	
SYMBOL	DESCRIPTION
	B / X-1 ← LIGHTING TYPE AND CIRCUIT DESIGNATION X: REFER TO PANEL SCHEDULE, PER DRAWING 1: CIRCUIT NUMBER B: LIGHT FIXTURE TYPE, REFER TO LIGHT FIXTURE SCHEDULE
	SWITCHING SCHEME OR ZONE

POWER CIRCUITING GUIDE	
SYMBOL	DESCRIPTION
	XXX / X-1 ← POWER CIRCUITING DESIGNATION X: REFER TO PANEL SCHEDULE, PER DRAWING 1: CIRCUIT NUMBER
	DEVICE, JUNCTION BOX, FLOOR BOX, ETC
	EQUIPMENT ABBREVIATION. REFER TO LEGEND AND ABBREVIATION SCHEDULE FOR ADDITIONAL INFORMATION

ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ACH	ABOVE COUNTER HEIGHT
AL	ALUMINUM
BKR	BREAKER
CU	COPPER
CKT	CIRCUIT
DWG	DRAWING
EC	EMPTY CONDUIT
EF	EXHAUST FAN
ENC	ELECTRIC WATER COOLER
FLA	FULL LOAD AMPS
FU	FUSE
FWE	FURNISHED WITH EQUIPMENT
GC	GENERAL CONTRACTOR
GFU/GFCI	GROUND FAULT INTERRUPTER DEVICE
HPS	HIGH PRESSURE SODIUM
IG	ISOLATED GROUND
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING(L)
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	METAL HALIDE
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVERCURRENT CIRCUIT PROTECTION
MSB	MAIN SWITCHBOARD
NL	NIGHT LIGHT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PH	PHASE
PNL	PANEL
RCPT	RECEPTACLE
REQD	REQUIRED
RTU	ROOFTOP UNIT
SP	SURGE PROTECTED DEVICE
SW	SWITCH
UGND	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
W	WITH
WH	WATER HEATER
WP	WEATHER PROOF
XFMR	TRANSFORMER

ELECTRICAL SPECIFICATIONS:
CONTRACTOR IS RESPONSIBLE TO REVIEW AND UNDERSTAND ALL DRAWINGS AND ALL WORK OF ALL TRADES TO ENSURE A COMPLETE AND THOROUGH PROJECT. CONTRACTOR SHALL COOPERATE AND COORDINATE ALL PHASES OF WORK WITH OTHER DISCIPLINES AND GENERAL CONTRACTOR.

CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS, VERIFY LOCATIONS, CONDUIT ROUTINGS, COORDINATE WITH EXISTING EQUIPMENT, ETC. BEFORE SUBMITTING A BID. ANY DISCREPANCIES SHALL BE REPORTED TO THE GENERAL CONTRACTOR BEFORE THE BID DATE.

FIELD DETERMINE THE EXACT EXISTING CONDITIONS AND EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT, INCLUDING ALL EQUIPMENT RATINGS AND FEEDER SIZES. EXISTING CONDITIONS INDICATED ON THESE DRAWINGS ARE TAKEN FROM EXISTING BUILDING DOCUMENTS AND/OR FIELD OBSERVATION. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE ELECTRICAL CONTRACTOR IS RESPONSIBLE THAT MAY NOT BE SPECIFICALLY ADDRESSED IN THESE DRAWINGS.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES PRIOR TO INSTALLATION OF EQUIPMENT AND RACEWAYS.

CONTRACTOR SHALL OBTAIN ALL PERMITS AND COORDINATE ALL INSPECTIONS REQUIRED BY LOCAL AUTHORIZED AGENCIES HAVING JURISDICTION. PERMIT/INSPECTION FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH RECOGNIZED STANDARDS OF WORKMANSHIP. ALL WORK SHALL BE INSTALLED IN A NEAT AND ORDERLY MANNER.

ALL ELECTRICAL CONSTRUCTION SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, APPLICABLE NEMA, ANSI, AND IEEE PUBLICATIONS, U.L. STANDARDS, AND OSHA REQUIREMENTS. WORK SHALL COMPLY WITH LOCAL, COUNTY, STATE, AND NATIONAL CODES HAVING JURISDICTION.

PROVIDE MATERIALS AND LABOR FOR A COMPLETE ELECTRICAL INSTALLATION. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE NEW AND BEAR THE UNDERWRITERS LABORATORIES, INC. (UL) LABEL WHERE AVAILABLE.

MULTIPLE ITEMS SUCH AS WIRING DEVICES, RACEWAYS, ETC. SHALL BE FROM THE SAME MANUFACTURER. ALL EQUIPMENT PROVIDED SHALL BE THE STANDARD EQUIPMENT OF THE MANUFACTURER.

PANELBOARDS SHALL HAVE HARD DRAWN COPPER BUS AND BOLT-ON MOLDED CASE THERMAL-MAGNETIC CIRCUIT BREAKERS. AIC RATINGS SHALL BE RATED AS INDICATED ON PANEL SCHEDULES. ACCEPTABLE MANUFACTURERS: GENERAL ELECTRIC, SQUARE D, SIEMENS, EATON.

ALL BREAKERS SHALL BE TYPE HACR BREAKERS.

SAFETY DISCONNECT SWITCHES SHALL BE SINGLE-THROW, HEAVY-DUTY TYPE, WITH SOLID NEUTRAL. VOLTAGE RATING SHALL BE 240VAC OR 600VAC AS REQUIRED BY THE UTILIZATION VOLTAGE OF THE EQUIPMENT SERVED. PROVIDE FUSIBLE OR NON-FUSIBLE AS INDICATED. PROVIDE FUSES WHERE INDICATED; FUSES SHALL BE DUAL-ELEMENT, TIME-DELAY, REJECTION TYPE. SWITCHES SHALL HAVE HORSEPOWER RATINGS EQUAL TO OR GREATER THAN THE CONNECTED MOTOR LOADS. ACCEPTABLE MANUFACTURERS: GENERAL ELECTRIC, SQUARE D, SIEMENS, EATON.

WIRING SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE EMT FOR BRANCH CIRCUIT WIRING. FITTINGS SHALL BE HEX-NUT, COMPRESSION TYPE, ZINC PLATED, AND U.L. LISTED AS RAINTIGHT; NO CRIMP, SPRING, OR SET-SCREW TYPE FITTINGS WILL BE ACCEPTED. EXPOSED CONDUITS SHALL BE RIGID GALVANIZED STEEL. CONNECTORS AND COUPLINGS SHALL BE STEEL, THREADED TYPE. PAINT EXPOSED CONDUIT, COUPLINGS AND CONNECTORS WITH ZINC PRIMER AND ONE FINISH COAT OF AIR DRIED ENAMEL. FURNISH AND INSTALL SLEEVES (GALVANIZED STEEL) FOR ALL CONDUIT PENETRATIONS IN SLAB OR WALLS. MINIMUM CONDUIT SIZE SHALL BE 1/2".

CONDUCTORS SHALL BE COPPER, 600 VOLTS, THHN-THWN, 75C INSULATION. MINIMUM SIZE BRANCH CIRCUIT CONDUCTORS SHALL BE NUMBER 12 AWG. CONDUCTORS SHALL BE COLOR CODED AND CONTINUOUS FROM OUTLET TO OUTLET. NUMBER 12 AWG SHALL BE SOLID, AND NUMBER 10 AWG AND LARGER SHALL BE STRANDED.

TYPE MC CABLE MAY BE USED IN CONCEALED LOCATIONS ABOVE CEILING WHERE ALLOWED BY LOCAL CODES AND SHALL BE REFLECTED AS A COST SAVINGS TO THE OWNER. MC CABLE SHALL NOT BE USED TO ENTER PANELBOARDS.

COLOR CODE WIRING AS FOLLOWS:

208Y / 120V SYSTEM:	480Y / 277V SYSTEM:
PHASE A: BLACK	PHASE A: BROWN
PHASE B: RED	PHASE B: ORANGE
PHASE C: BLUE	PHASE C: YELLOW
NEUTRAL: WHITE	NEUTRAL: WHITE WITH COLORED STRIPE
GROUND: GREEN	GROUND: GREEN

ALL CONDUIT AND WIRING SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS UNLESS NOTED OTHERWISE OR APPROVED BY THE ARCHITECT/ENGINEER. ALL DEVICE OUTLET BOXES SHALL BE RECESSED UNLESS NOTED OTHERWISE OR APPROVED BY THE ARCHITECT/ENGINEER. WHERE APPROVED OR NOTED, SURFACE METAL RACEWAY AND DEVICE BOXES SHALL BE USED IN LIEU OF CONDUIT AND CONCEALED BOXES AT NO EXTRA COST TO THE OWNER.

INSTALL EXPOSED RACEWAYS PARALLEL TO OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS, AND FOLLOW THE SURFACE CONTOURS AS MUCH AS PRACTICAL. RUN PARALLEL OR BANKED RACEWAYS TOGETHER, ON COMMON SUPPORTS WHERE PRACTICAL. MAKE BENDS IN PARALLEL OR BANKED RUNS FROM SAME CENTERLINE TO MAKE BENDS PARALLEL. USE FACTORY ELBOWS ONLY WHERE ELBOWS CAN BE INSTALLED PARALLEL; OTHERWISE, PROVIDE FIELD BENDS FOR PARALLEL RACEWAYS.

FLEXIBLE CONDUIT WITH COLD ROLLED STEEL CORE SHALL BE USED FOR SHORT FINAL CONNECTION (6'-0" OR LESS) TO EQUIPMENT. PROVIDE MAXIMUM 6'-0" UNJACKETED FLEXIBLE CONDUIT CONNECTIONS TO LIGHTING FIXTURES IN LIFT-OUT TYPE CEILINGS FROM AN OUTLET BOX LOCATED ABOVE THE CEILING.

EACH ELECTRICAL DEVICE AND JUNCTION POINT SHALL BE PROVIDED WITH A STEEL OUTLET BOX. BOXES SHALL BE OF SUFFICIENT SIZE FOR NUMBER OF CONDUCTORS AND SPLICES.

WHERE CONCEALED CONDUIT IS INDICATED, PROVIDE A FLUSH-MOUNTED GALVANIZED PRESSED SHEET STEEL OUTLET BOX, 1 1/2" X 4" X 4" MINIMUM SIZE, COMPLETE WITH RAISED DEVICE COVER.

JUNCTION, PULL, AND OUTLET BOXES SHALL BE INSTALLED SUCH THAT THE WIRING CONTAINED IN BOX MAY BE RENDERED ACCESSIBLE.

FLOOR BOXES SHALL BE CAST METAL, RECTANGULAR, FULLY-ADJUSTABLE, WITH COVER, AND WITH COMPARTMENTS FOR POWER AND DATA AS REQUIRED. ACCEPTABLE MANUFACTURERS: HUBBELL, HUBBELL, STEEL CITY.

WIRING DEVICES SHALL BE HEAVY DUTY TYPE AND AS SPECIFIED IN THE ELECTRICAL SYMBOL LEGEND. COLOR/FINISH SHALL BE AS SELECTED BY OWNER. ACCEPTABLE MANUFACTURERS: HUBBELL, LEVITON, PASS & SEYMOUR, COOPER.

DEVICE PLATES SHALL BE INSTALLED ON ALL ELECTRICAL WIRING DEVICES. DEVICE PLATES MATERIAL AND FINISH SHALL BE AS SELECTED BY OWNER.

CONDUIT PENETRATIONS OF ROOF, WALLS, FLOORS, AND CEILINGS SHALL BE SEALED TO PRESERVE THE INTEGRITY OF WATERPROOFING, FIRE RATING, AND SOUNDPROOFING FOR WHICH THE ROOF, WALL, FLOOR, OR CEILING IS DESIGNED. MATERIALS AND METHODS USED SHALL CONFORM TO THAT SPECIFIED UNDER ARCHITECTURAL SECTIONS AND SHALL COMPLY WITH STATE AND LOCAL BUILDING AND FIRE CODES. COORDINATE WITH GENERAL CONTRACTOR TO ENSURE THAT SEALING/FIRESTOPPING IS DONE.

LIGHTING FIXTURES SHALL BE AS SCHEDULED. FLUORESCENT LAMPS SHALL HAVE COLOR TEMPERATURE OF 4100K. FLUORESCENT BALLASTS SHALL HAVE A TOTAL HARMONIC DISTORTION OF LESS THAN 20%. EMERGENCY BATTERY PACK BALLASTS SHALL BE INTERNAL TYPE WITH A SEALED BATTERY AND FULLY-AUTOMATIC CHARGER.

VERIFY ALL DOOR SWINGS BEFORE ROUGH-IN OF LIGHT SWITCHES.

ALL METAL RACEWAYS, INCLUDING CONDUIT, WIRE TROUGHS, WIREMOLD, ETC., SHALL BE GROUNDED. ALL CONNECTIONS IN METAL RACEWAYS SHALL BE COMPLETED IN SUCH A MANNER AS TO MAINTAIN A CONTINUOUS PATH TO GROUND THROUGHOUT THE ENTIRE LENGTH OF THE RACEWAY.

THE METALLIC CONDUIT SYSTEM SHALL BE USED AS PERMITTED BY THE ELECTRICAL CODE FOR EQUIPMENT AND ENCLOSURE GROUNDING SYSTEM. PROVIDE, AS DEFINED BY THE ELECTRICAL CODE, GROUNDING LUGS, STRAPS AND GREEN INSULATED COPPER GROUNDING CONDUCTORS EACH UTILIZED AND SIZED ACCORDING TO THE ELECTRICAL CODE.

IN ADDITION, A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR, INSTALLED AS A REDUNDANT GROUND PATH, IN CONDUIT WITH THE PHASE CONDUCTORS, SHALL BE PROVIDED FOR ALL BRANCH CIRCUITS.

PROVIDE GROUNDING FOR ALL EQUIPMENT IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.

ALL WORK SHALL HAVE PROPER LABELING. ALL CIRCUITS SHALL BE LABELED AT PANELS AND ON RECEPTACLE & DEVICE OUTLET PLATES. ALL PANELS AND DISCONNECTS SHALL BE PERMANENTLY MARKED WITH NAME OR EQUIPMENT SERVED. ALL PANELS SHALL BE PROVIDED WITH TYPEWRITTEN PANEL SCHEDULES.

ALL EQUIPMENT, FIXTURES, DEVICES, AND MATERIALS SHALL BE FREE OF CORROSION, DIRT, PAINT, SPLATTER OR DAMAGE OF ANY SORT AT FINAL ACCEPTANCE OF THE WORK. ELECTRICAL CONTRACTOR SHALL CLEAN, REPAIR OR REPLACE SAME AS INSTRUCTED BY OWNER BEFORE FINAL PAYMENT.

DEMOLITION / RENOVATION:

REFER TO ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR COORDINATION AND ADDITIONAL REQUIRED WORK.

IN SPACES THAT ARE BEING RENOVATED WHERE THE CEILING AND/OR WALLS ARE BEING DEMOLISHED, THE LIGHTING FIXTURES, DEVICES, ETC. SHALL BE REMOVED UNLESS NOTED OTHERWISE. ABANDONED DEVICES SHALL BE REMOVED WITH THE OUTLET BOX.

FOR ITEMS TO BE DEMOLISHED, REMOVE WIRING/CONDUIT BACK TO THE LAST ACTIVE DEVICE OR SOURCE PANELBOARD. MAINTAIN CIRCUIT CONTINUITY TO REMAINING ITEMS ON CIRCUITS REQUIRED TO REMAIN. RELOCATE ANY CIRCUITS TO REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

PATCH AND REPAIR ALL SURFACES CONTAINING DEMOLITION. COORDINATE WITH ARCHITECTURAL DRAWINGS. MATERIALS AND FINISHES SHALL MATCH ADJACENT SURFACES.

ANY EXISTING ELECTRICAL DEVICES LEFT WITHOUT POWER DUE TO THIS RENOVATION SHALL BE RECONNECTED TO SAME SIZE CIRCUIT(S) AS PRESENTLY SERVED. NO ELECTRICAL DEVICES SHALL BE LEFT WITHOUT POWER.

IF OTHER AREAS OF THE FACILITY ARE SERVED THROUGH THE REMODELED AREA, THEIR CIRCUITS SHALL BE REWORKED AT A TIME COORDINATED WITH THE OWNER TO MINIMIZE ANY AREA BEING WITHOUT POWER. ALL AREAS OF THE FACILITY SHALL MAINTAIN THEIR EXISTING ELECTRICAL SERVICES, REWORKED IF NECESSARY.

EXISTING CONDUIT IN THE RENOVATED AREA SHALL BE REUSED IF IT CAN BE LEFT IN PLACE OR IS IN GOOD CONDITION WHEN REMOVED. EXISTING CONDUIT NOT INTENDED TO BE REUSED SHALL BE REMOVED IN CEILING SPACES AND WALLS. EXISTING CONDUIT BELOW FLOOR SLABS MAY BE ABANDONED IN PLACE. REMOVE ALL WIRING, CUT OFF ABANDONED CONDUIT BELOW FLOOR, AND GROUT FLUSH.

CONDUCTORS IN RENOVATED AREA SHALL BE NEW. DO NOT REUSE EXISTING WIRING UNLESS NOTED OTHERWISE.

PROPERLY DISPOSE OF ALL ITEMS BEING REMOVED AS PART OF THIS PROJECT. THE OWNER SHALL HAVE THE RIGHT TO RETAIN ANY ELECTRICAL ITEMS REMOVED FROM THE REMODELED AREA AND NOT INDICATED TO BE REUSED. IF THE OWNER DOES NOT WANT THE ITEMS, CONTRACTOR SHALL REMOVE ITEMS FROM THE SITE. COORDINATE ITEMS TO BE RETAINED WITH THE OWNER.

WHERE CIRCUIT BREAKERS ARE ADDED TO EXISTING PANELS, THEY SHALL MATCH EXISTING BREAKERS TYPE, MANUFACTURER, AND AIC RATING. UPDATE DIRECTORIES IN EXISTING PANELS TO REFLECT CHANGES BY THIS RENOVATION. DIRECTORIES SHALL BE TYPEWRITTEN.

Seal



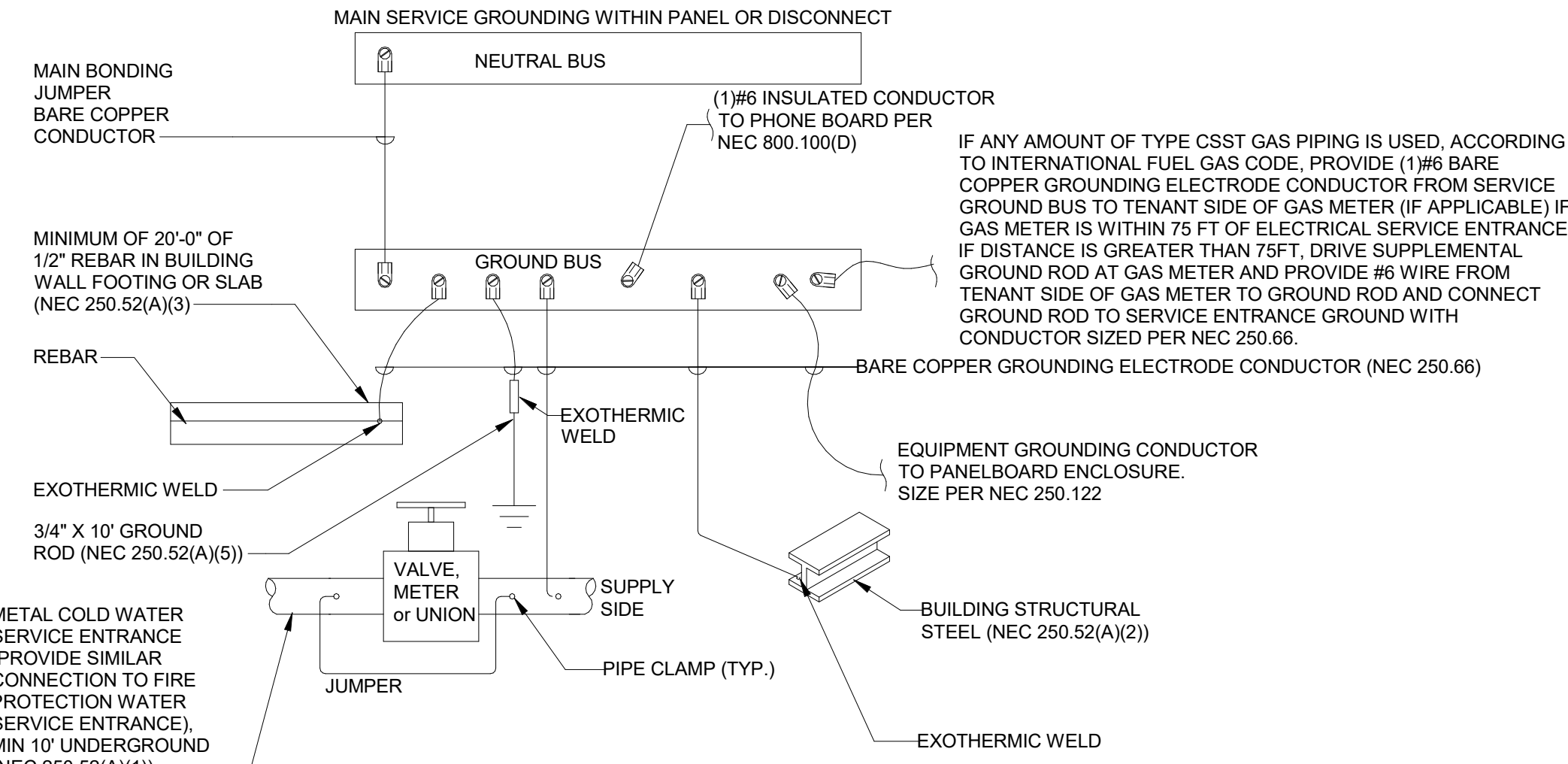
Project

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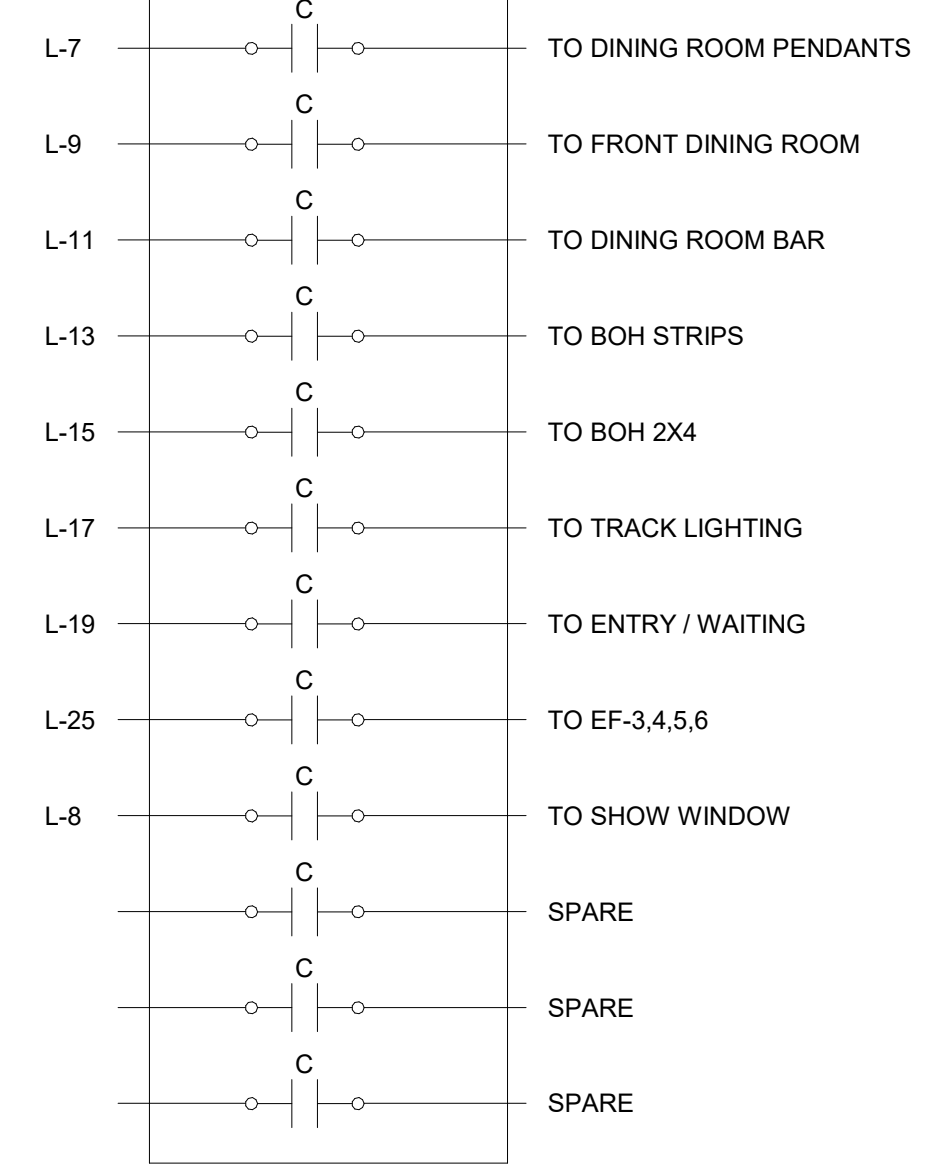
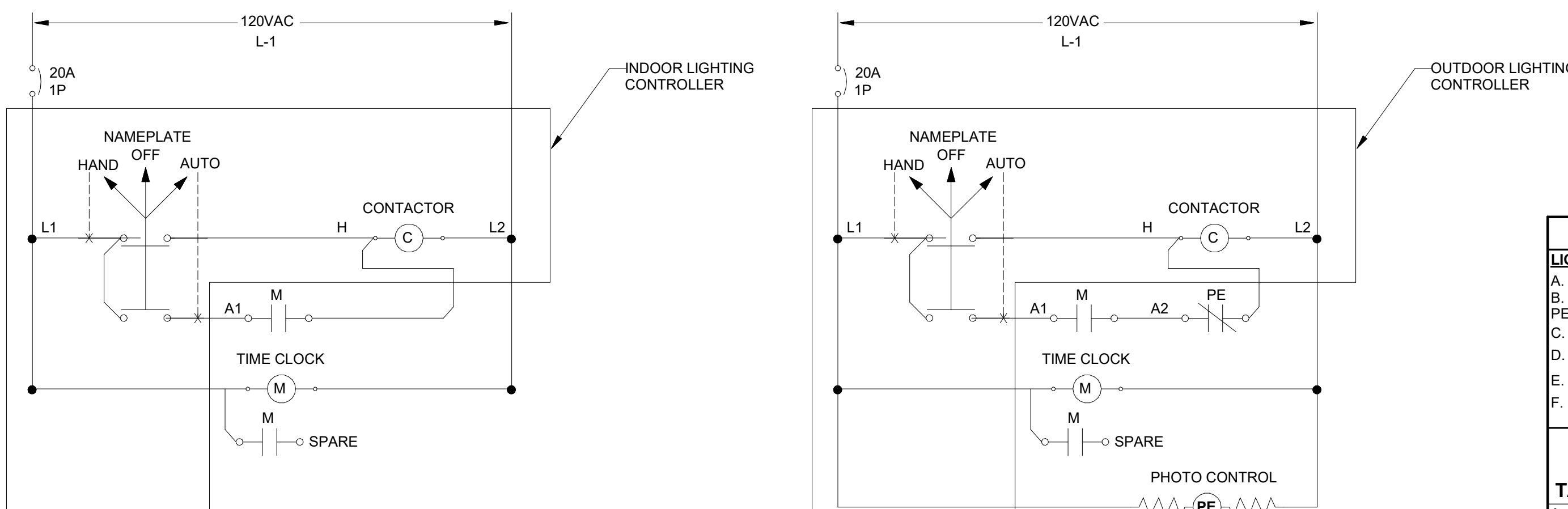
Drawing

GROUNDING NOTES:

- ALL GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL GROUNDING REQUIREMENTS.



2 GROUNDING DETAIL
E0.2 NOT TO SCALE



NOTES:

- OUTDOOR LIGHTING CONTROLLER SHALL BE IN A NEMA TYPE 1 ENCLOSURE SIZED AS REQUIRED. PROVIDE ENGRAVED NAMEPLATE ON DOOR.
- H-O-A SWITCH SHALL BE SQUARE D # 9001KS43B, OIL TIGHT TYPE OR APPROVED EQUAL. MOUNT SWITCH ON DOOR AND PROVIDE NAMEPLATE ENGRAVED AS SHOWN.
- CONTACTOR SHALL BE SQUARE D CLASS 8903 TYPE L ELECTRICALLY HELD LIGHTING CONTACTOR OR APPROVED EQUAL. CONTACTS SHALL BE 30A CONTINUOUS RATED, QUANTITY AS INDICATED. PROVIDE COIL VOLTAGE AS INDICATED AND MINIMUM TWO (2) SPARE POLES.
- TIME CLOCK SHALL BE ASTRONOMIC 365-DAY 2-CIRCUIT ELECTRONIC PROGRAMMABLE TYPE, CAPABLE OF 2000 SETPOINTS OR EVENTS PLUS HOLIDAY SCHEDULES, 100-HOUR SUPERCAPACITOR BACKUP, 120-277VAC, 2X SPDT, 20A BALLAST-RATED CONTACTS, NEMA 1 STEEL ENCLOSURE, INTERMATIC ET90215C OR EQUAL BY NSI TORK. PROVIDE TIME CLOCK SCHEDULE PROGRAMMING IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS.
- PHOTO CONTROL SHALL BE ELECTRONIC SWIVEL & STEM TYPE, DUSK-TO-DAWN, FAIL ON, SPST, RATED FOR 6A ELECTRONIC FIXTURE LOAD, 1800 VA BALLAST LOAD, WITH VOLTAGE AS INDICATED, INTERMATIC EK4236S OR APPROVED EQUAL. MOUNT ON CONDUIT AT HIGHEST PRACTICAL POINT FACING NORTH.
- LOCATE CONTROLLER ADJACENT TO PANELBOARD.

1 LIGHTING CONTROLLERS
E0.2 NOT TO SCALE

KITCHEN EQUIPMENT SCHEDULE											
QUANTITY	EQUIP TAG	LOAD NAME	VOLT S	PH	VOLT AMPS	PNL/CKT	CONDUCTORS/COND UIT	DEVICE	ELEVA TION	REMARKS	
1	B-11	BACK BAR COOLER	120 V	1	336 VA	K 2	2#12, 1#12G, 3/4"C	NEMA 5-15R	2' - 0"		
1	B-13	POS/PRINTER	120 V	1	180 VA	K 6	2#12, 1#12G, 1#12IG, 3/4"C	NEMA 5-15R	4' - 0"	DEDICATED I.G CIRCUIT	
1	B-13	POS/PRINTER	120 V	1	180 VA	K 4	2#12, 1#12G, 1#12IG, 3/4"C	NEMA 5-15R	4' - 0"	DEDICATED I.G CIRCUIT	
1	B-14	BACK BAR COOLER	120 V	1	252 VA	K 8	2#12, 1#12G, 3/4"C	NEMA 5-15R	2' - 0"		
1	B-17	GLASS SANITIZER	120 V	1	480 VA	K 10	2#12, 1#12G, 3/4"C	NEMA 5-15R	2' - 0"		
1	CO-1	KITCHEN CONVENIENCE OUTLET	120 V	1	180 VA	K 30	2#12, 1#12G, 3/4"C	NEMA 5-20R	4' - 0"		
1	CO-1	KITCHEN CONVENIENCE OUTLET	120 V	1	180 VA	K 30	2#12, 1#12G, 3/4"C	NEMA 5-20R	4' - 0"		
1	E-01	BAG IN BOX	120 V	1	180 VA	K 1	2#12, 1#12G, 3/4"C	NEMA 5-15R	7' - 0"		
1	E-06	WALK-IN COOLER LIGHTS/ACCESSORIES	120 V	1	180 VA	K 3	2#12, 1#12G, 3/4"C	J-BOX	9' - 0"		
1	E-06	WALK-IN COOLER LIGHTS/ACCESSORIES	120 V	1	180 VA	K 3	2#12, 1#12G, 3/4"C	J-BOX	9' - 0"		
1	E-6.1	WALK-IN COOLER EVAPORATOR	120 V	1	216 VA	K 5	2#12, 1#12G, 3/4"C	J-BOX	9' - 0"		
1	E-6.1A	WALK-IN COOLER CONDENSER	208 V	1	3120 VA	M 2.4	2#12, 1#12G, 3/4"C			LOCATED ON ROOF	
1	E-6.2	WALK-IN FREEZER EVAPORATOR	120 V	1	180 VA	K 7	2#12, 1#12G, 3/4"C	J-BOX	9' - 0"		
1	E-6.2A	WALK-IN FREEZER CONDENSER	208 V	1	4368 VA	M 6.8	2#10, 1#10G, 3/4"C			LOCATED ON ROOF	
1	E-14	EXHAUST HOOD	120 V	1	1000 VA	K 9	2#12, 1#12G, 3/4"C	J-BOX	9' - 5"		
1	E-14	EXHAUST HOOD	120 V	1	1000 VA	K 11	2#12, 1#12G, 3/4"C	J-BOX	9' - 5"		
1	E-14.1	EXHAUST FAN 1	208 V	1	2746 VA	M 10.12	SEE MECH SCHEDULE			LOCATED ON ROOF. SEE MECH SCHEDULE	
1	E-14.2	MAKE-UP AIR UNIT	208 V	1	3432 VA	M 14.16	SEE MECH SCHEDULE			LOCATED ON ROOF. SEE MECH SCHEDULE	
1	E-14.3	FIRE SUPPRESSION SYSTEM	120 V	1	500 VA	K 13	2#12, 1#12G, 3/4"C	J-BOX	9' - 0"		
1	E-17	CHEF BASE REFRIGERATOR	120 V	1	600 VA	K 15	2#12, 1#12G, 3/4"C	J-BOX	2' - 0"		
1	E-19	CONVECTION OVEN	120 V	1	948 VA	K 17	2#12, 1#12G, 3/4"C	J-BOX	4' - 0"		
1	E-22	REACH-IN FREEZER	120 V	1	1320 VA	K 19	2#12, 1#12G, 3/4"C	NEMA 5-15R	2' - 0"		
1	E-23	WORKTOP REFRIGERATOR	120 V	1	300 VA	K 21	2#12, 1#12G, 3/4"C	NEMA 5-15R	2' - 0"		
1	E-25	SAND/SALAD PREP REFRIGERATOR	120 V	1	588 VA	K 23	2#12, 1#12G, 3/4"C	NEMA 5-15R	2' - 0"		
1	E-27	SAND/SALAD PREP REFRIGERATOR	120 V	1	588 VA	K 25	2#12, 1#12G, 3/4"C	NEMA 5-15R	2' - 0"		
1	E-29	OVERHEAD WARMER	208 V	1	2440 VA	K 12.14	2#12, 1#12G, 3/4"C	J-BOX		BTC THRU ELECTRICAL CHASE AT END OF COUNTER	
1	E-29	OVERHEAD WARMER	208 V	1	2440 VA	K 16.18	2#12, 1#12G, 3/4"C	J-BOX		BTC THRU ELECTRICAL CHASE AT END OF COUNTER	
1	E-29	OVERHEAD WARMER	208 V	1	2440 VA	K 20.22	2#12, 1#12G, 3/4"C	J-BOX		BTC THRU ELECTRICAL CHASE AT END OF COUNTER	
1	E-31	MICROWAVE OVEN	120 V	1	1500 VA	K 27	2#12, 1#12G, 3/4"C	NEMA 5-15R			
1	E-38	WAREWASHER	120 V	1	1920 VA	K 28	2#12, 1#12G, 3/4"C	J-BOX			
1	E-41	EXHAUST FAN 2	120 V	1	696 VA	M 18	SEE MECH SCHEDULE			LOCATED ON ROOF. SEE MECH SCHEDULE	
1	E-44	POS/PRINTER	120 V	1	180 VA	K 29	2#12, 1#12G, 1#12IG, 3/4"C	NEMA 5-15R	4' - 0"	DEDICATED I.G CIRCUIT	
1	E-44	POS/PRINTER	120 V	1	180 VA	K 31	2#12, 1#12G, 1#12IG, 3/4"C	NEMA 5-15R	4' - 0"	DEDICATED I.G CIRCUIT	
1	E-47	COFFEE/TEA BREWER	120 V	1	1500 VA	K 33	2#12, 1#12G, 3/4"C	J-BOX	4' - 0"		
1	E-48	SODA DISPENSER	120 V	1	500 VA	K 35	2#12, 1#12G, 3/4"C	NEMA 5-15R	4' - 0"		
1	E-49	ICE MAKER	208 V	1	2600 VA	K 24.26	2#12, 1#12G, 3/4"C	J-BOX			
1	E-52	NACHO CHIP WARMER	120 V	1	1632 VA	K 37	2#12, 1#12G, 3/4"C	NEMA 5-15R	2' - 0"		
1	E-53	UNDERCOUNTER REFRIGERATOR	120 V	1	240 VA	K 39	2#12, 1#12G, 3/4"C	NEMA 5-15R	2' - 0"		
1	E-62	REMOTE BEVERAGE COOLING SYSTEM	120 V	1	1728 VA	K 41	2#12, 1#12G, 3/4"C	J-BOX	9' - 0"		
1	TV		120 V	1	180 VA	L 20	2#12, 1#12G, 3/4"C	NEMA 5-15R	4' - 0"		
1	TV		120 V	1	180 VA	L 20	2#12, 1#12G, 3/4"C	NEMA 5-15R	4' - 0"		
1	TV		120 V	1	180 VA	L 20	2#12, 1#12G, 3/4"C	NEMA 5-15R	4' - 0"		

LIGHT FIXTURE SCHEDULE

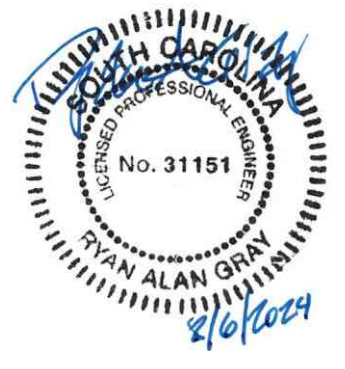
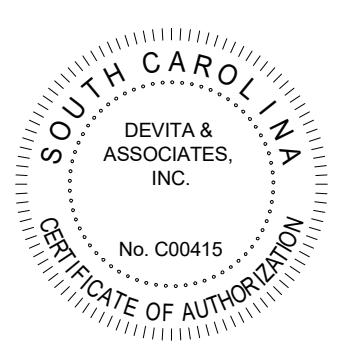
- LIGHT FIXTURE SCHEDULE NOTES:**
- FINISHES SHALL BE CONFIRMED BY ARCHITECT OR OWNER PRIOR TO ORDERING...
 - LED DRIVERS SHALL CONFORM TO IEEE P1789 STANDARDS. ALTERNATIVELY, MANUFACTURERS MUST DEMONSTRATE CONFORMANCE WITH PRODUCT LITERATURE AND TESTING WHICH DEMONSTRATES THIS PERFORMANCE. SYSTEMS THAT DO NOT MEET IEEE P1789 WILL NOT BE CONSIDERED.
 - LED DRIVERS SHALL BE MULTI-VOLT. IF MULTI-VOLT DRIVERS ARE NOT AVAILABLE, THEN REQUIRED VOLTAGE SHALL BE VERIFIED WITH ENGINEER PRIOR TO ORDERING.
 - CONTRACTOR SHALL ENSURE THAT LIGHTING CONTROL DEVICES ARE COMPATIBLE WITH FIXTURES AND LAMPS.
 - CONTRACTOR SHALL PROVIDE ALL REQUIRED HARDWARE FOR PENDANT MOUNTED FIXTURES. VERIFY TYPE REQUIRED WITH ARCHITECT.
 - CONTRACTOR SHALL PROVIDE MOUNTING KITS AND/OR ACCESSORIES REQUIRED FOR INSTALLING FIXTURES IN VARIOUS CEILING TYPES. VERIFY CEILING TYPES WITH ARCHITECTURAL DRAWINGS.

TAG	FIXTURE DESCRIPTION	LAMP TYPE	VOLT AGE	WATTS	MOUNTING METHOD AND HEIGHT	ACCEPTABLE MANUFACTURERS		REMARKS
						MANUF	MODEL	
A	BOH 4' FLUORESCENT STRIP	32W T8	120 V	62 VA	PENDANT	METALUX	SSF-232-UNV-EB81	
B	BOH 2X4' FLUORESCENT TROFFER	32W T8	120 V	114 VA	RECESSED CEILING LAY-IN	SIMKAR	TK244-432-B11-UNV	
BE	BOH 2X4' FLUORESCENT TROFFER W/90 MINUTE EM BATTERY BACK-UP	32W T8	120 V	114 VA	RECESSED CEILING LAY-IN	SIMKAR	TK244-432-B11-UNV-ELS2	
C	DINING/BAR 6' STRIP	LED	120 V	64 VA	PENDANT	TBD	TBD	
D	EXTERIOR/RESTROOM 6" DOWNLIGHT - WET LOCATIONS	LED	120 V	26 VA	SURFACE MOUNTED	TBD	TBD	
DE	EXTERIOR/RESTROOM 6" DOWNLIGHT - WET LOCATIONS W/90 MINUTE EM BATTERY BACK-UP	LED	120 V	26 VA	SURFACE MOUNTED	TBD	TBD	
E	T8 SECTION OF TRACK WITH 3 TH HEADS	LED		36 VA	PENDANT			
F	DINING WALL MOUNTED SCONCE	LED	120 V	50 VA	SURFACE/WALL MOUNTED	TBD	TBD	
G	ENTRY/WAITING 8 LAMP CHANDEILER	E26 / MEDIUM	120 V	480 VA	PENDANT	MEYDA LIGHTING	CHANCY 8	
H	DINING BLACK CAN LIGHT	LED	120 V	20 VA	DECK MOUNTED	TBD	TBD	PROVIDE DIMMABLE
J	EXTERIOR BLACK GOOSENECK	LED	120 V	60 VA	SURFACE/WALL MOUNTED	TBD	TBD	
N	DINING BLACK CAN LIGHT	LED	120 V	20 VA	SURFACE MOUNTED	TBD	TBD	PROVIDE DIMMABLE
P	DINING 15" GLASS STAR PENDANT	13W CFL SPIRAL	120 V	13 VA	PENDANT	MYDANILO	13 AM - B	
X1	EXIT SIGN WITH 90 MINUTE BATTERY BACK-UP	LED	120 V	4 VA	SURFACE/WALL MOUNTED	SIMKAR	SLED-BRB	
X2	EXIT SIGN WITH 2 EM LIGHTS WITH 90 MINUTE BATTERY BACK-UP	LED	120 V	4 VA	SURFACE/WALL MOUNTED	SIMKAR	SLED-BRB	
XEM	EMERGENCY WALL PACK W/90 MINUTE BATTERY BACK-UP	LED	120 V	5 VA	SURFACE/WALL MOUNTED	SIMKAR	DLMB	VERIFY MOUNTING HEIGHTS

MECHANICAL EQUIPMENT SCHEDULE

TAG	VOLTAGE	PHASE	LOAD			CONDUCTORS & CONDUIT	DISCONNECT	CIRCUIT		REMARKS
			KW	HP	FLA			PANEL	NO.	
EF-1	208	1			13.2	2#12, 1#12G, 3/4"C	MOTOR RATED SWITCH	M	10, 12	E14.1, CONTROLLED WITH HOOD
EF-2	120	1			5.8	2#12, 1#12G, 3/4"C	MOTOR RATED SWITCH	M	18	E41, CONTROLLED WITH HOOD
EF-3	120	1			0.1	2#12, 1#12G, 3/4"C	FWE	L	25	TIMELOCK CONTROLLED
EF-4	120	1			0.1	2#12, 1#12G, 3/4"C	FWE	L	25	TIMELOCK CONTROLLED
EF-5	120	1			0.1	2#12, 1#12G, 3/4"C	FWE	L	25	TIMELOCK CONTROLLED
EF-6	120	1			0.1	2#12, 1#12G, 3/4"C	FWE	L	25	TIMELOCK CONTROLLED
EUH-1	208	1			4.8	2#12, 1#12G, 3/4"C	FWE	M	20, 22	
MAU-1	208	1			13.2	2#12, 1#12G, 3/4"C	MOTOR RATED SWITCH	M	14, 16	E14.2, CONTROLLED WITH HOOD
RCP	120	1			1.0	2#12, 1#12G, 3/4"C	J-BOX	K	32	
RTU-1	208	3			37.7	3#6, 1#10G, 1"C	FWE	M	13, 15, 17	
RTU-2	208	3			47.1	3#4, 1#8G, 1-1/4"C	FWE	M	19, 21, 23	
RTU-3	208	3			59.3	3#2, 1#8G, 1-1/4"C	FWE	M	25, 27, 29	
WH-1	120	1			1.0	2#12, 1#12G, 3/4"C	NEMA 5-20R	L	18	GAS, SUPPLY RECEPTACLE FOR IGNITER
WH-2	120	1			1.0	2#12, 1#12G, 3/4"C	NEMA 5-20R	L	18	GAS, SUPPLY RECEPTACLE FOR IGNITER

Seal



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Project

MARIACHIS
RESTAURANT
LANCASTER, SC

Project Number 23213
Drawn By DMN
Checked By RAG
Date Issue Date

Revisions

Drawing

ELECTRICAL
SCHEDULES AND
DETAILS

E0.2

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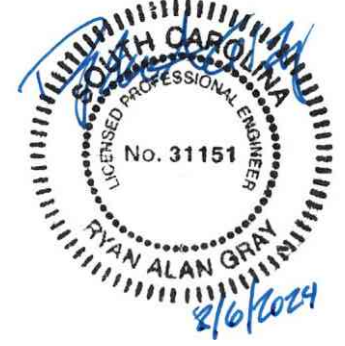
LIGHTING GENERAL NOTES:

- A. EMERGENCY LIGHTS/EXIT SIGNS SHALL BE CONNECTED TO UNSWITCHED HOT CONDUCTOR OF CIRCUIT INDICATED.
- B. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND HEIGHTS OF ALL FIXTURES.
- C. REFER TO SHEET E0.2 FOR LIGHTING FIXTURE SCHEDULE.
- D. DIMMED LIGHTING CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARING OF NEUTRALS IS NOT ALLOWED IN DIMMED CIRCUITS.

LIGHTING KEYED NOTES: ⬡

- 1. EC SHALL INSTALL DISCONNECT SWITCH FOR SIGNAGE CIRCUIT(S) AS REQUIRED BY N.E.C. 600. COORDINATE EXACT LOCATION WITH SIGN VENDOR.
- 2. SWITCH BANK LOCATION FOR DINING AREA LIGHTING.
- 3. ALL EMERGENCY AND EXIT LIGHTS SHALL BE CIRCUITED AHEAD OF SWITCHED LEG OF CIRCUIT (CONSTANT HOT).
- 4. EXTERIOR CANOPY LIGHT TO BE PROVIDED BY OTHERS. EC TO PROVIDE POWER WITH J-BOX TO LOCATION.
- 5. EC TO PROVIDE POWER FOR MONUMENT SIGN. FIELD VERIFY LOCATION.
- 6. EC TO PROVIDE POWER FOR EXTERIOR LIGHTING AT TOWER. FIELD VERIFY LOCATION.

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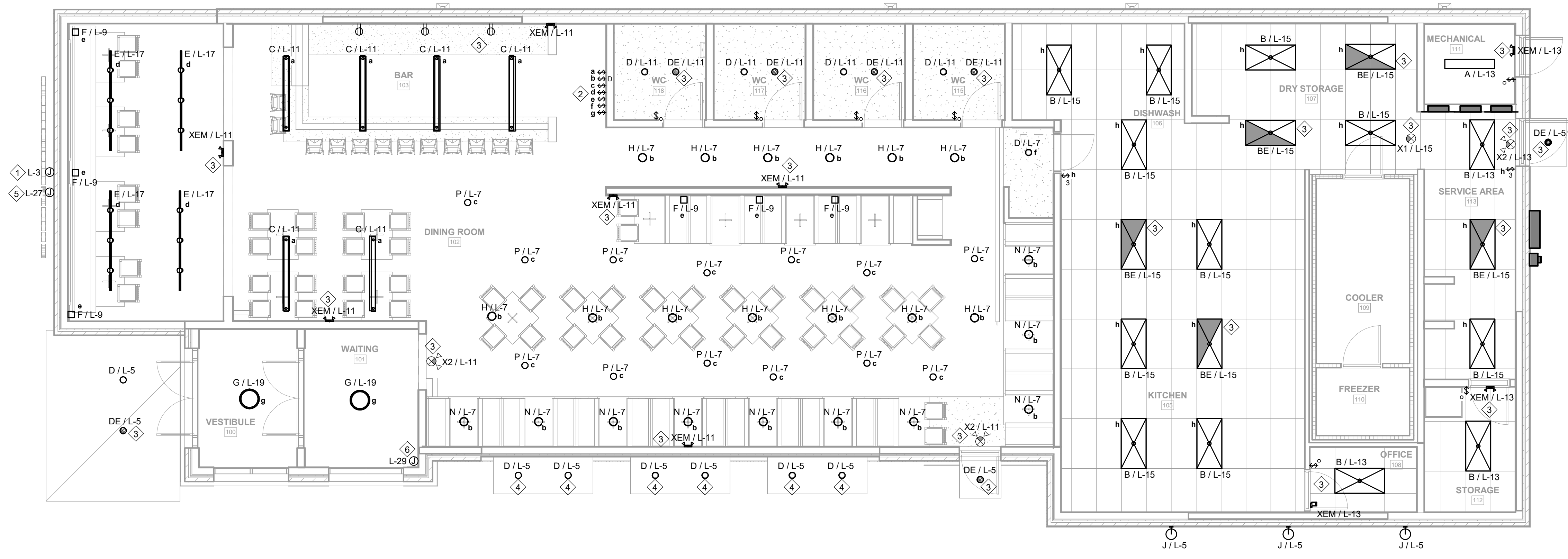
Project Number 23213
Drawn By DMN
Checked By RAG
Date Issue Date

Revisions

Drawing

ELECTRICAL
LIGHTING PLAN

E1.1



1 ELECTRICAL LIGHTING PLAN
E1.1
3/16" = 1'-0"
0 4 8 12 16'

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GFCI NOTES:

1. ALL KITCHEN AND RESTROOM SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER N.E.C.
2. ALL GFCI RECEPTACLES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION OR A GFCI CIRCUIT BREAKER OR DEAD-FRONT DEVICE INSTALLED IN A READILY ACCESSIBLE LOCATION SHALL USED TO FEED THE CIRCUIT NOTED.
3. ALL 125V, 15A AND 20A CIRCUITS TO KITCHEN EQUIPMENT SHALL BE FED WITH A DEDICATED NEUTRAL WIRE.

POWER GENERAL NOTES:

- A. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E3.1 FOR MORE INFORMATION.
- B. REFER TO FOOD SERVICE PLANS FOR KITCHEN EQUIPMENT REQUIREMENTS.
- C. PROVIDE WORKING CLEARANCE AT ALL ELECTRICAL PANELS PER N.E.C.
- D. COORDINATE WITH LOW-VOLTAGE VENDOR FOR EXACT LOCATIONS AND REQUIREMENTS REGARDING ALL POS, SECURITY, IT, AND OTHER LOW-VOLTAGE ITEMS.

POWER KEYED NOTES: #

1. EC TO PROVIDE TAMPER RESISTANT RECEPTACLES IN DINING AREA.
2. PROVIDE RECEPTACLES MOUNTED WITHIN 18 INCHES OF THE TOP OF THE WINDOW AS REQUIRED TO MEET THE N.E.C. SHOW WINDOW REQUIREMENTS.

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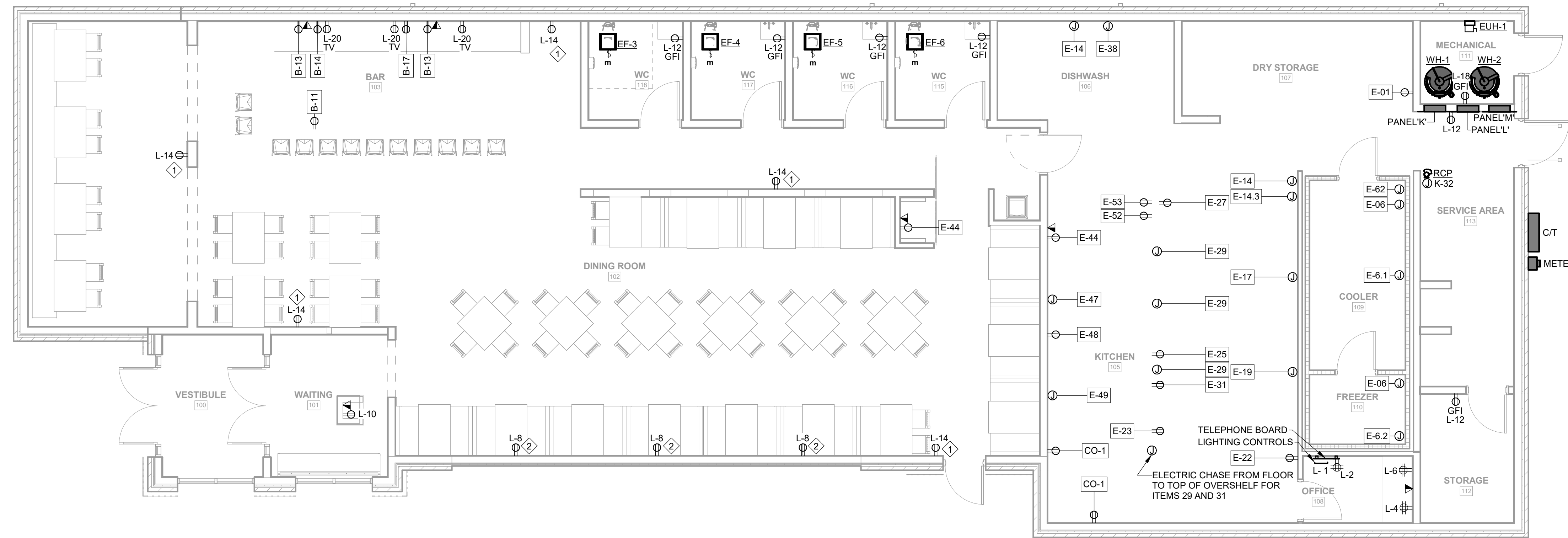
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Project Number	23213
Drawn By	DMN
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Revisions



1
E2.1 ELECTRICAL POWER PLAN
3/16" = 1'-0"
0 4 8 12 16

Drawing

ELECTRICAL
POWER PLAN

E2.1

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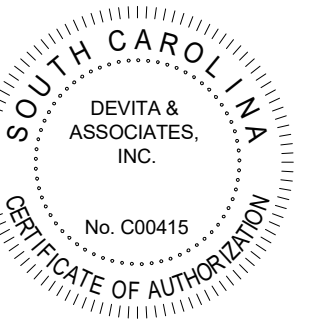
GENERAL NOTES:

A. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E3.1 FOR MORE INFORMATION.

ELECTRICAL ROOF PLAN KEYED NOTES:

1. WEATHERPROOF GFCI RECEPTACLE PROVIDED BY E.C. TO BE INSTALLED PER N.E.C. 210.63. COORDINATE LOCATION WITH MECHANICAL EQUIPMENT INSTALLER.

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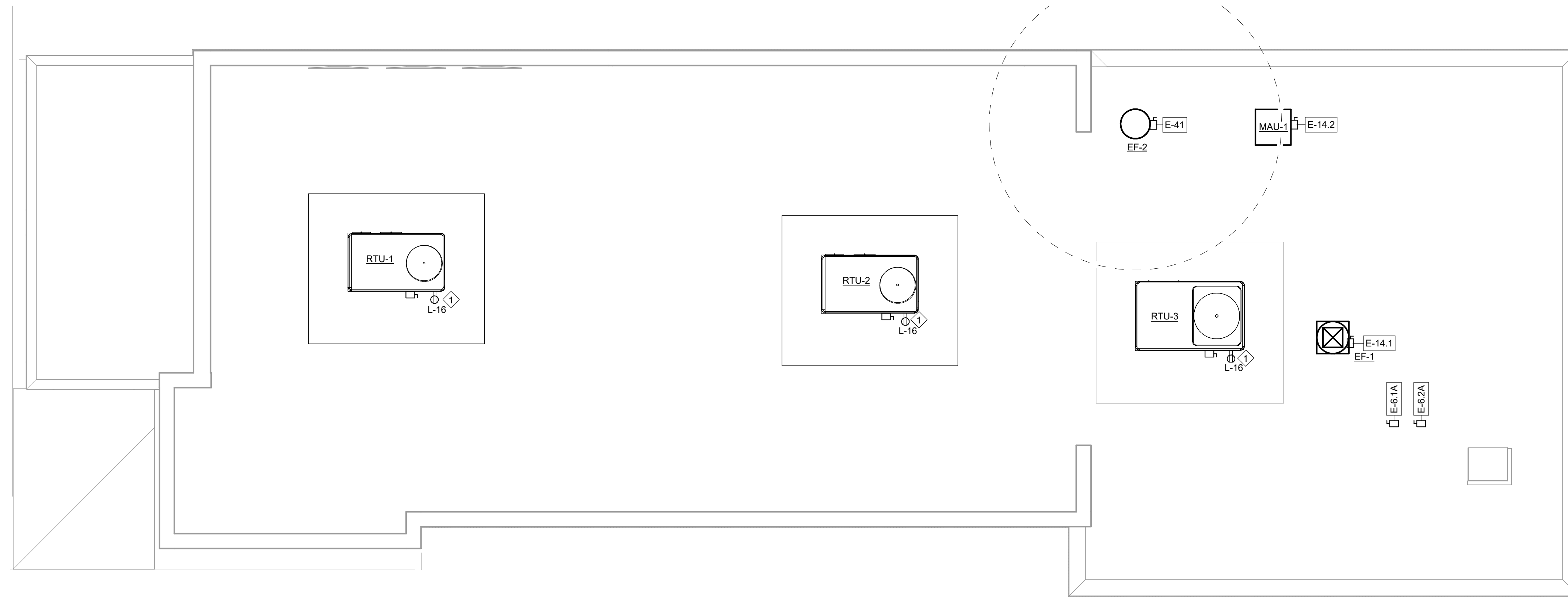
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Project Number 23213
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Checked By RAG
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1
E2.2 ELECTRICAL ROOF PLAN
3/16" = 1'-0"
0 4 8 12 16

Drawing

**ELECTRICAL ROOF
PLAN**

E2.2

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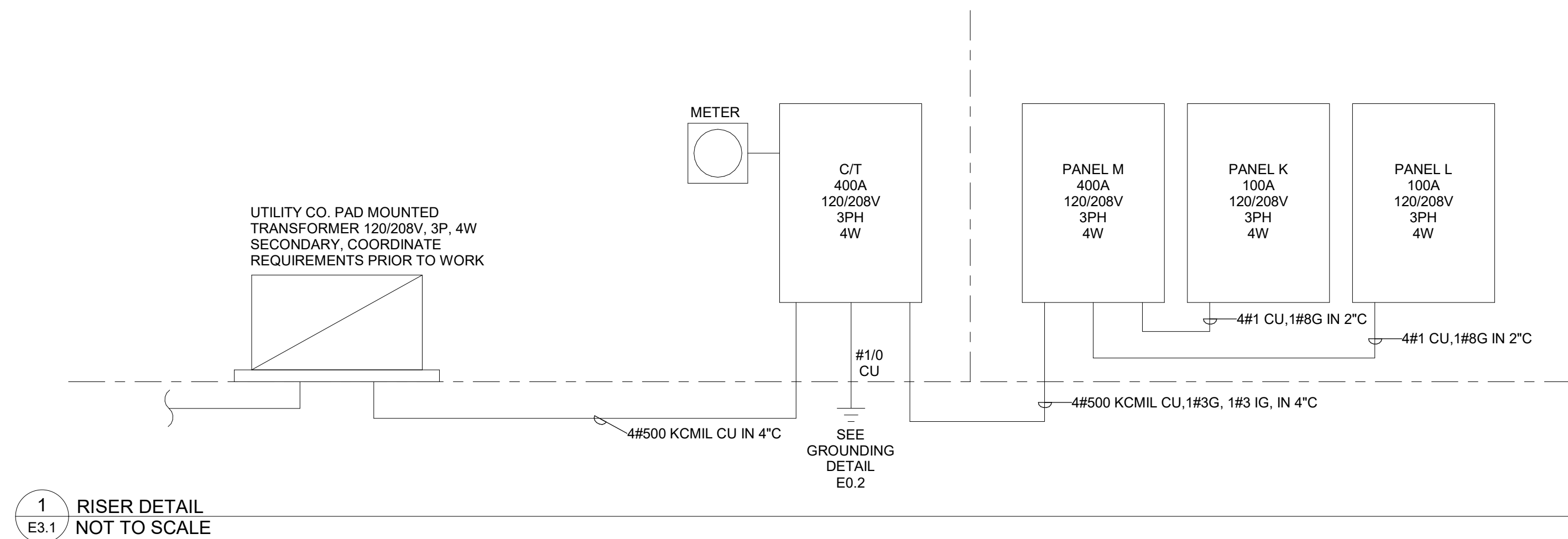
Panel: M										Remarks:		
			Voltage: 120/208 Wye			Min SCCR: 22k AIC			SE RATED PANEL			
			Phases: 3			Mounting: SURFACE						
			Wires: 4			Feeder Rating: 400 A						
			Enclosure: TYPE 4X			Panel Rating: 400 A			Type: MCB			
BRKR	Notes	Circuit Description	CKT	A (VA)	B (VA)	C (VA)	CKT	Circuit Description	Notes	BRKR		
100 A	3	PANEL K	1	9008	1560		2	E-6.1A WALK-IN COOLER		20 A		
			3		10520	1560	4	CONDENSER				
			5	4266	2184		6	E-6.2A WALK-IN FREEZER		30 A		
			7				8	CONDENSER				
100 A	3	PANEL L	9		6694	1843	10	E-14.1 EXHAUST FAN 1 - COOKLINE		25 A		
			11				12					
			13	4524	1716		14	E-14.2 MAKEUP AIR UNIT 1		25 A		
			15		4524	1716	16					
50 A	3	RTU-1	17			4524	696	E-41 EXHAUST FAN 2 - WAREWASH		20 A		
			19	5652	500		20					
			21		5652	500	22	EUH-1		20 A		
			23				24	SPACE		--		
			25	7116	--		26	SPACE		--		
			27		7116	--	28	SPACE		--		
			29			7116	--	30	SPACE	--		
			31	--	--		32	SPACE		--		
			33	--	--		34	SPACE		--		
			35	--	--		36	SPACE		--		
			37	--	--		38	SPACE		--		
			39	--	--		40	SPACE		--		
			41	--	--		42	SPACE		--		
				36526 VA	40125 VA	37949 VA						
PANEL TOTALS:												
Connected Load	Lighting	HVAC	Motors	Receptacle	Refrig	Kitchen	Misc	Total Conn. Load: 114600 VA				
Demand Factor	10806 VA	61938 VA		5820 VA	NEC	35736 VA	300 VA	Total Est. Demand: 104794 VA				
Demand Load	125.00%	100.00%		5820 VA		23228 VA	300 VA	Total Conn. Current: 318 A				
	13508 VA	61938 VA						Total Est. Demand... 291 A				

PANEL NOTES:

- A - AFCI BREAKER
- G - GFI CIRCUIT BREAKER
- IG - ISOLATED GROUND CIRCUIT
- C# - ROUTE CIRCUIT HOMERUN VIA CONTACTOR INDICATED
- LF - PROVIDE PAD-LOCK ATTACHMENT FOR MAINTENANCE LOCK-OUT OF CIRCUIT BREAKER
- LO - PROVIDE LOCK-ON DEVICE FOR CIRCUIT BREAKER
- P - PRE-WIRED INTERNAL CIRCUIT BY SWITCHGEAR MANUFACTURER
- ST - SHUNT TRIP CIRCUIT BREAKER
- SUB - SUB-FEED CIRCUIT BREAKER
- E - EXISTING BREAKER AND CIRCUIT IN EXISTING PANEL TO REMAIN
- N - NEW BREAKER INSTALLED IN EXISTING PANEL
- R - REUSE EXISTING BREAKER IN EXISTING PANEL WITH NEW LOAD

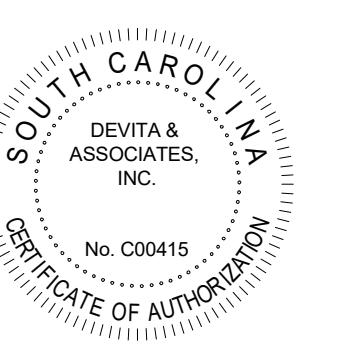
Panel: K										Remarks:		
			Voltage: 120/208 Wye			Min SCCR: 22k AIC			PROVIDE ISOLATED GROUND BUS			
			Phases: 3			Mounting: SURFACE						
			Wires: 4			Feeder Rating: 125 A						
			Enclosure: TYPE 4X			Panel Rating: 100 A			Type: MLO			
BRKR	Notes	Circuit Description	CKT	A	B	C	CKT	Circuit Description	Notes	BRKR		
20 A	1	G	1	180	336		2	B-11 BACK BAR COOLER		20 A		
20 A	1		3		360	180	4	B-13 POS/PRINTER 1	G,IG	20 A		
20 A	1		5			216	6	B-13 POS/PRINTER 2	G,IG	20 A		
20 A	1		7	180	252		8	B-14 BACK BAR COOLER	G	20 A		
20 A	1		9		1000	480	10	B-17 GLASS SANITIZER	G	20 A		
20 A	1		11			1000	12	E-29 OVERHEAD WARMER		20 A		
20 A	1	LO	13	500	1220		14	E-29 OVERHEAD WARMER		20 A		
20 A	1		15		600	1220	16	E-29 OVERHEAD WARMER		20 A		
20 A	1		17			948	18	E-29 OVERHEAD WARMER		20 A		
20 A	1	G	19	1320	1220		20	E-29 OVERHEAD WARMER		20 A		
20 A	1	G	21		300	1220	22	E-29 OVERHEAD WARMER		20 A		
20 A	1	G	23			588	24	E-49 ICE MAKER		20 A		
20 A	1	G	25	588	1300		26	E-38 WAREWASHER		20 A		
20 A	1	G	27		1500	1920	28	E-CO KITCHEN CONVENIENCE	G	20 A		
20 A	1	G,IG	29	180	100		30	RECIRC PUMP		20 A		
20 A	1	G,IG	31		1500	0	32	SPACE		20 A		
20 A	1		33			500	34	SPACE		20 A		
20 A	1	G	35	1632	--		36	SPACE		--		
20 A	1	G	37		240	--	38	SPACE		--		
20 A	1	G	39			1728	40	SPACE		--		
20 A	1		41			9440 VA	42	SPACE		--		
				9008 VA	10520 VA	9440 VA						
PANEL TOTALS:												
Connected Load	Lighting	HVAC	Motors	Receptacle	Refrig	Kitchen	Misc	Total Conn. Load: 28968 VA				
Demand Factor	0 VA	0 VA		720 VA	NEC	28248 VA	0 VA	Total Est. Demand: 19081 VA				
Demand Load	Not...			720 VA		65.00%		Total Conn. Current: 80 A				
	0 VA					18361 VA	0 VA	Total Est. Demand... 53 A				

Panel: L										Remarks:		
			Voltage: 120/208 Wye			Min SCCR: 22k AIC						
			Phases: 3			Mounting: SURFACE						
			Wires: 4			Feeder Rating: 125 A						
			Enclosure: TYPE 4X			Panel Rating: 100 A			Type: MLO			
BRKR	Notes	Circuit Description	CKT	A (VA)	B (VA)	C (VA)	CKT	Circuit Description	Notes	BRKR		
20 A	1		1	300	360		2	REC - TELEPHONE BOARD		20 A		
20 A	1	C2	3		1200	360	4	REC - OFFICE 1		20 A		
20 A	1	C2	5			440	6	REC - OFFICE 2		20 A		
20 A	1	C1	7	195	540		8	REC - SHOW WINDOW	C1	20 A		
20 A	1	C1	9		300	180	10	REC - HOSTESS STAND		20 A		
20 A	1	LO, C1	11			630	12	REC - RESTROOM/BOH...		20 A		
20 A	1	LO	13	423	900		14	REC - DINING CONVENIENCE		20 A		
20 A	1	LO	15		1714	540	16	REC - HVAC		20 A		
20 A	1	C1	17			144	18	REC - WATER HEATER		20 A		
20 A	1	C1	19	960	540		20	REC - TVS		20 A		
20 A	1	C2	21		1200	0	22	SPARE		20 A		
20 A	1	C2	23			1200	0	24	SPARE	20 A		
20 A	1	C1	25	48	0		26	SPARE		20 A		
20 A	1	C2	27		1200	0	28	SPARE		20 A		
20 A	1	C2	29			1200	0	30	SPARE	20 A		
20 A	1		31	0	--		32	SPACE		--		
20 A	1		33		0	--	34	SPACE		--		
20 A	1		35			0	36	SPACE		--		
--	1		37	--	--		38	SPACE		--		
--	1		39	--	--		40	SPACE		--		
--	1		41	--	--		42	SPACE		--		
				4266 VA	6694 VA	6494 VA						
PANEL TOTALS:												
Connected Load	Lighting	HVAC	Motors	Receptacle	Refrig	Kitchen	Misc	Total Conn. Load: 17454 VA				
Demand Factor	10806 VA	1248 VA		5100 VA			300 VA	Total Est. Demand: 20156 VA				
Demand Load	125.00%	100.00%		5100 VA			300 VA	Total Conn. Current: 48 A				
	13508 VA	1248 VA						Total Est. Demand... 56 A				



1 RISER DETAIL
E3.1 NOT TO SCALE

Seal



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Project

Project Number 23213
Drawn By DMN
Checked By RAG
Date Issue Date

Revisions

Drawing