	WIRING DEVICE SYMBOL LEGEND
SYMBOL	DESCRIPTION
A-1	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
E101	ELECTRICAL CONNECTION TO EQUIPMENT ITEM 'E101' (LETTER DESIGNATION AS APPLICABLE) - SEE CORRESPONDING EQUIPMENT CONNECTION SCHEDULE
\bigcirc	DUPLEX RECEPTACLE AT 18" AFF, UNO NEMA 5-20R.
#	QUADRUPLEX RECEPTACLE AT 18" AFF, UNO NEMA 5-20R
•	DUPLEX RECEPTACLE - CEILING MOUNTED NEMA 5-20R
	DUPLEX RECEPTACLE - FLOOR MOUNTED NEMA 5-20R
φ	SINGLE RECEPTACLE AT 18" AFF, UNO NEMA 5-20R
	FOR RECEPTACLES ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS GFI - GROUND FAULT DEVICE IG - ISOLATED GROUND USB - DEVICE WITH USB PORT WP - WEATHERPROOF CR - CORD REEL C - MOUNTED 8" ABOVE COUNTER
•	SPECIAL PURPOSE RECEPTACLE - HEIGHT AND TYPE AS NOTED ON DRAWINGS
	SURFACE RACEWAY
(J)	JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
J	JUNCTION BOX - FLOOR MOUNTED SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
	VERTICAL SERVICE POLE
$\Phi \mathbf{\nabla}$	COMBINATION IN FLOOR POWER / DATA / A/V DEVICE
•	PUSHBUTTON
\bigcirc	MOTOR SEE DRAWINGS FOR DESCRIPTION
30A/3P/20/1	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
Во	DOOR BELL

Во	DOOR BELL
	FIRE ALARM SYMBOL LEGEND
SYMBOL	DESCRIPTION
FAAP	FIRE ALARM ANNUNCIATOR PANEL - WALL MOUNTED AT 60" AFF TO CENTER, UNO
FACP	FIRE ALARM CONTROL UNIT, "D" SUBSCRIPT INDICATES DEDICATED UNIT
FATC	FIRE ALARM TERMINAL CABINET - WALL MOUNTED AT 72" AFF TO TOP, UNO
ARCM	AREA OF REFUGE EMERGENCY COMMUNICATION SYSTEM MASTER UNIT
ARCR	AREA OF REFUGE EMERGENCY COMMUNICATION SYSTEM REMOTE UNIT
ESR	ELEVATOR STATUS / RECALL
RTS	REMOTE TEST STATION FOR FA DUCT DETECTOR
NAC_n	NOTIFICATION CIRCUIT POWER BOOSTER, EXTENDER PANEL. "n" = UNIT NUMBER
PRE	PRE-ACTION SYSTEM / CONTROL UNIT
SD	SMOKE DAMPER
ES	ELEVATOR SHUTDOWN
ER	ELEVATOR RECALL
FH	ELEVATOR FIREMAN'S HAT LIGHT
VM	ELEVATOR SHUNT TRIP VOLTAGE MONITOR
AIM	ADDRESSABLE INPUT MONITOR MODULE
AOM	ADDRESSABLE OUTPUT MONITOR MODULE
⟨IM⟩	ISOLATION MODULE
lacksquare	CO DETECTOR
\overline{H}_{xx}	HEAT DETECTOR "XX" = TYPE/BASIC SHAPE
WF	WATER FLOW DETECTOR / SWITCH
RL	NON-ADDRESSABLE OUTPUT RELAY
ss	SURGE SUPPRESSOR
VS	VALVE SUPERVISORY SWITCH
F	FIRE ALARM PULL STATION AT 44" AFF UNO
$\langle s \rangle$	FIRE ALARM SMOKE DETECTOR / SENSOR
$\langle S \rangle_{\!\scriptscriptstyle R}$	RELAY BASE
SS	SMOKE ALARM SINGLE STATION
S	SMOKE DETECTOR / SENSOR FOR DUCT
S F _{ss} F _g	FIRE ALARM SYSTEM BELL - SINGLE STROKE
F _G	GONG
cd 🔀	COMBINATION HORN / VISIBLE, cd = CANDELA RATING
cd 1W	COMBINATION SPEAKER / VISIBLE, W = WATTAGE, cd = CANDELA RATING
F	HORN ONLY
	CEILING MOUNT INDICATOR
RTS	REMOTE ALARM INDICATING AND TEST SWITCH
▼w S	SPEAKER ONLY, WALL MOUNT, W = WATTAGE
CD CD	VISIBLE ONLY (STROBE), CEILING MOUNT, CD = CANDELA RATING
∑ ^{CD}	VISIBLE ONLY (STROBE), WALL MOUNT, CD = CANDELA RATING
DH	DOOR HOLDER
	SUBSCRIPT DEFINITIONS C - CEILING MOUNTED

WP - WEATHERPROOF WG - WIRE GUARD

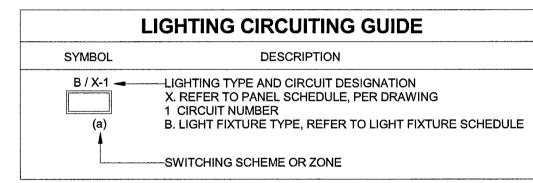
	LIGHTING & CONTROL SYMBOL LEGEND
SYMBOL	DESCRIPTION
\$ _x	20A SWITCH AT 44" CL AFF, UNO
D _x	WALL DIMMER
	FOR SWITCH OR DIMMER ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS a,b - SWITCHING SCHEME m - MOTOR RATED P - PILOT LIGHT 3 - 3-WAY SWITCH 4 - 4-WAY SWITCH 0 - OCCUPANCY SENSOR V - VACANCY SENSOR
©S	LIGHTING CONTROL OCCUPANCY SENSOR - CEILING MOUNTED
PC	LIGHTING CONTROL PHOTOCELL
os	DAYLIGHT SENSOR
	INTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE REFER ALSO TO LIGHTING CIRCUITING GUIDE
NL NL	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, WITH BATTERY REFER TO LIGHT FIXTURE SCHEDULE
⊗ ↓⊕↓	EXIT SIGN WHERE USED, ARROW INDICATES CHEVRON DIRECTION
X	CEILING FAN

UNLESS NOTED OTHERWISE ON DRAWINGS, FOR EACH DEVICE BELOW, PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG MUDRING AND 1" CONDUIT WITH PULL CORD TO ABOVE NEAREST ACCESSIBLE CEILING IN CORRIDOR PROVIDE NYLON BUSHING ON CONDUIT END SYMBOL DESCRIPTION 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

TECHNOLOGY SYMBOL LEGEND

4	VOICE / DATA ROUGH-IN BOX, AT 18" AFF UNO PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END
$\overline{\mathbf{V}}$	VOICE / DATA ROUGH-IN BOX, FLOOR-MOUNTED PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END
HZ)	TELEVISION OUTLET SINGLE GANG BOX WITH SINGLE GANG PLASTER RING PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END PROVIDE WITH ADJACENT DUPLEX RECEPTACLE
SC	SECURITY CAMERA. COORDINATE REQUIREMENTS WITH OWNER
™ WAP	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								
T1	TRANSFORMER								
ATS	AUTOMATIC TRANSFER SWITCH								



	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
<u> </u>	——EQUIPMENT ABBREVIATION, REFER TO LEGEND AND ABBREVIATION SCHEDULE FOR ADDITIONAL INFORMATION

	ABBREVIATIONS
\FF	ABOVE FINISHED FLOOR
\FG	ABOVE FINSHED GRADE
CH	ABOVE COUNTER HEIGHT
\L	ALUMINUM
KR	BREAKER
:U	COPPER
KT	CIRCUIT
WG	DRAWING
:C	EMPTY CONDUIT
F	EXHAUST FAN
:WC	ELECTRIC WATER COOLER
LA	FULL LOAD AMPS
U	FUSE
WE	FURNISHED WITH EQUIPMENT
C :	GENERAL CONTRACTOR
FI/GFCI	GROUND FAULT INTERRUPTER DEVICE
IPS	HIGH PRESSURE SODIUM
3	ISOLATED GROUND
RA	LOCKED ROTOR AMPS
TG	LIGHTING(L)
1CA	MINIMUM CIRCUIT AMPACITY
1CB	MAIN CIRCUIT BREAKER
1CC	MOTOR CONTROL CENTER
1DP	MAIN DISTRIBUTION PANEL
1FR	MANUFACTURER
1H	METAL HALIDE
1LO	MAIN LUG ONLY
1OCP	MAXIMUM OVERCURRENT CIRCUIT PROTECTION
1SB	MAIN SWITCHBOARD
IL	NIGHT LIGHT
IIC	NOT IN CONTRACT
ITS	NOT TO SCALE
'H	PHASE
NL	PANEL
CPT	RECEPTACLE
REQD	REQUIRED
RTU	ROOFTOP UNIT
P	SURGE PROTECTED DEVICE
SW .	SWITCH
JGND	UNDERGROUND
JH :	UNIT HEATER
INO	UNLESS NOTED OTHERWISE
V/	WITH
VH	WATER HEATER
VP (FMR	WEATHER PROOF 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, 75'C 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.
PHASE A BLACK
PHASE B RED
PHASE C BLUE
NEUTRAL. WHITE
GROUND' GREEN

480Y / 277V SYSTEM
PHASE A BROWN
PHASE B ORANGE
PHASE C 'YELLOW
NEUTRAL WHITE WITH COLORED STRIPE
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 WIREMOLD, 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.



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

Engineering Great ATLANTA | CHARLOTTE | GREENVILLE | RICHMOND WWW.devitainc.com 877.4.DEVITA

corp@devitainc.com

DeVita & Associates, Inc Project . 2304-

DEVITA & ASSOCIATES, INC

No C00415

No C00415



DP3
ARCHITECTS

DP3 Architects, Ltd

15 South Main Street, Suite 400
Greenville, SC 29601
864 232 8200
www.DP3architects com

Project

MARIACHIS RESTAURANT LANCASTER, SC

23213

DMN

RAG

Issue Date

Project Number Drawn By Checked By

Revisions

Drawing

ELECTRICAL LEGEND AND SPECIFICATIONS

E0.1

JUMPER

-PIPE CLAMP (TYP)

STEEL (NEC 250 52(A)(2))

—OUTDOOR LIGHTING

CONTROLLER

EXOTHERMIC WELD



SERVICE ENTRANCE (PROVIDE SIMILAR

CONNECTION TO FIRE

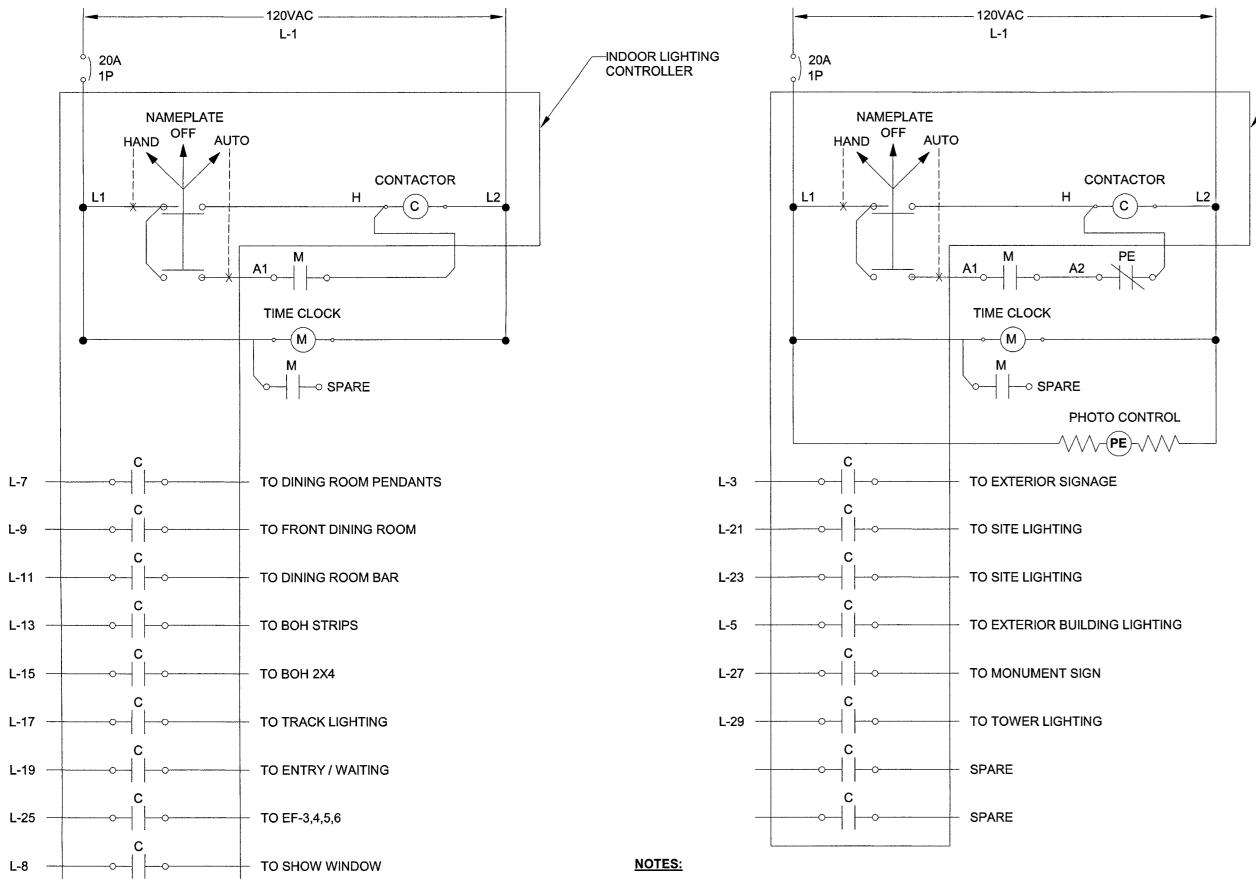
MIN 10' UNDERGROUND (NEC 250 52(A)(1))——

SPARE

SPARE

SPARE

PROTECTION WATER SERVICE ENTRANCE),



1 OUTDOOR LIGHTING CONTROLLER SHALL BE IN A NEMA TYPE 1 ENCLOSURE SIZED AS REQUIRED PROVIDE ENGRAVED NAMEPLATE ON DOOR.

- 2 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
- 3 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
- 4 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
- 5 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
- 6. LOCATE CONTROLLER ADJACENT TO PANELBOARD

				•	KITC	HEN	EQU	PMENT SCHEDULE	=		
QUAN TITY	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	К	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	К	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	К	8	2#12, 1#12G, 3/4"C	NEMA 5-15R	2' - 0"	
1	B-17	GLASS SANITIZER	120 V	1	480 VA	К	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	М	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	М	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	М	10,12	SEE MECH SCHEDULE			LOCATED ON ROOF SEE MECH SCHEDULE
1	E-14 2	MAKE-UP AIR UNIT	208 V	1	3432 VA	М	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"	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
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
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"	I
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"	

IGHT FIXTURE SCHEDULE NOTES				
LED DRIVERS SHALL CONFORM ERFORMANCE. SYSTEMS THAT D LED DRIVERS SHALL BE MULTI-	BY ARCHITECT OR OWNER PRIOR TO ORDERING. DIEEE P1789 STANDARDS ALTERNATIVELY, MANUFAC'N MEET IEEE P1789 WILL NOT BE CONSIDERED BLT. IF MULTI-VOLT DRIVERS ARE NOT AVAILABLE, THE BAT LIGHTING CONTROL DEVICES ARE COMPATIBLE WIT	N REQUIRED VOLTAGE SHALL BE VERIF		
CONTRACTOR SHALL PROVIDE	L REQUIRED HARDWARE FOR PENDANT MOUNTED FIX	TURES VERIFY TYPE REQUIRED WITH	ARCHITECT	

		LAMP	VOLT		MOUNTING METHOD	3443	CCEPTABLE NUFACTURERS	
TAG	FIXTURE DESCRIPTION	TYPE	AGE	WATTS	AND HEIGHT	MANUF	MODEL	REMARKS
A	BOH 4' FLUORESCENT STRIP	32W T8	120 V	62 VA	PENDANT	METALUX	SSF-232-UNV-EB81	
В	BOH 2'X4' FLUORESCENT TROFFER	32W T8	120 V	114 VA	RECESSED CEILING LAY-IN	SIMKAR	TK244-432-B11-UNV	
BE	BOH 2'X4' 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	
С	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	
Н	DINING BLACK CAN LIGHT	LED	120 V	20 VA	DECK MOUNTED	TBD	TBD	PROVIDE DIMMABLE
]	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
)	DINING 15" GLASS STAR PENDANT	13W CFL SPIRAL	120 V	13 VA	PENDANT	MYDANILO	13 AM - B	J
K1	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	l l
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	VOLTACE	DUACE		LOA	D	CONDUCTORS &	DISCONNECT	CIRC	CUIT	REMARKS					
	VOLTAGE	PHASE	kW	HP	FLA	CONDUIT	DISCONNECT	PANEL	NO.	ILIVIAINO					
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	М	18	E41, CONTROLLED WITH HOOD					
EF-3	120	1			0.1	2#12, 1#12G, 3/4"C	FWE	L	25	TIMECLOCK CONTROLLED					
EF-4	120	1	·		0 1	2#12, 1#12G, 3/4"C	FWE	L	25	TIMECLOCK CONTROLLED					
EF-5	120	1			0 1	2#12, 1#12G, 3/4"C	FWE	L	25	TIMECLOCK CONTROLLED					
EF-6	120	1			01	2#12, 1#12G, 3/4"C	FWE	L	25	TIMECLOCK 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			10	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		1	59 3	3#2, 1#8G, 1-1/4"C	FWE	М	25,27,29						
WH-1	120	1			10	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					



ASSOCIATES,





DP3 Architects, Ltd. 15 South Main Street, Suite 400 Greenville, SC 29601 864 232 8200 www DP3architects com

Project

MARIACHIS RESTAURANT LANCASTER, SC

23213

DMN

RAG

Project Number Drawn By Checked By Issue Date

Revisions

Drawing

ELECTRICAL SCHEDULES AND **DETAILS**

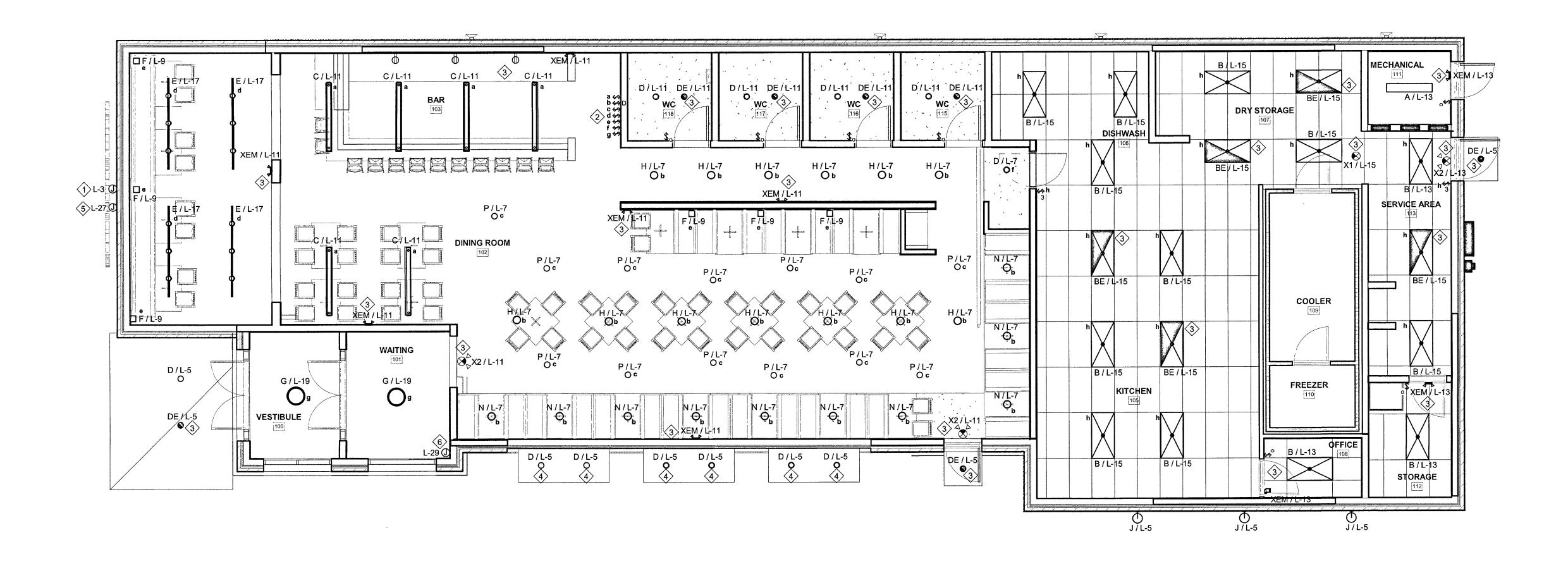
1 LIGHTING CONTROLLERS E0 2 NOT TO SCALE

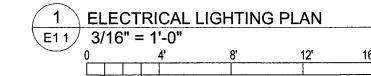
LIGHTING GENERAL NOTES:

- 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: (#)

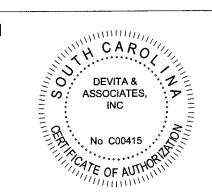
- 1 EC SHALL INSTALL DISCONNECT SWITCH FOR SIGNAGE CIRCUIT(S) AS REQUIRED BY N E C 600. COORDINATE EXACT LOCATION WITH SIGN VENDOR
- 2 SWITCH BANK LOCATION FOR DINING AREA LIGHTING
- 3 ALL EMERGENCY AND EXIT LIGHTS SHALL BE CIRCUITED AHEAD OF SWITCHED LEG OF CIRCUIT (CONSTANT HOT)
- 4. EXTERIOR CANOPY 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

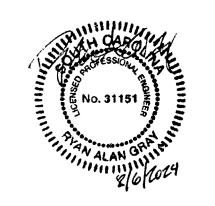






Sea







DP3 Architects, Ltd

15 South Main Street, Suite 400
Greenville, SC 29601
864 232 8200
www DP3architects com

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ELECTRICAL LIGHTING PLAN

E1.1

GFCI NOTES:

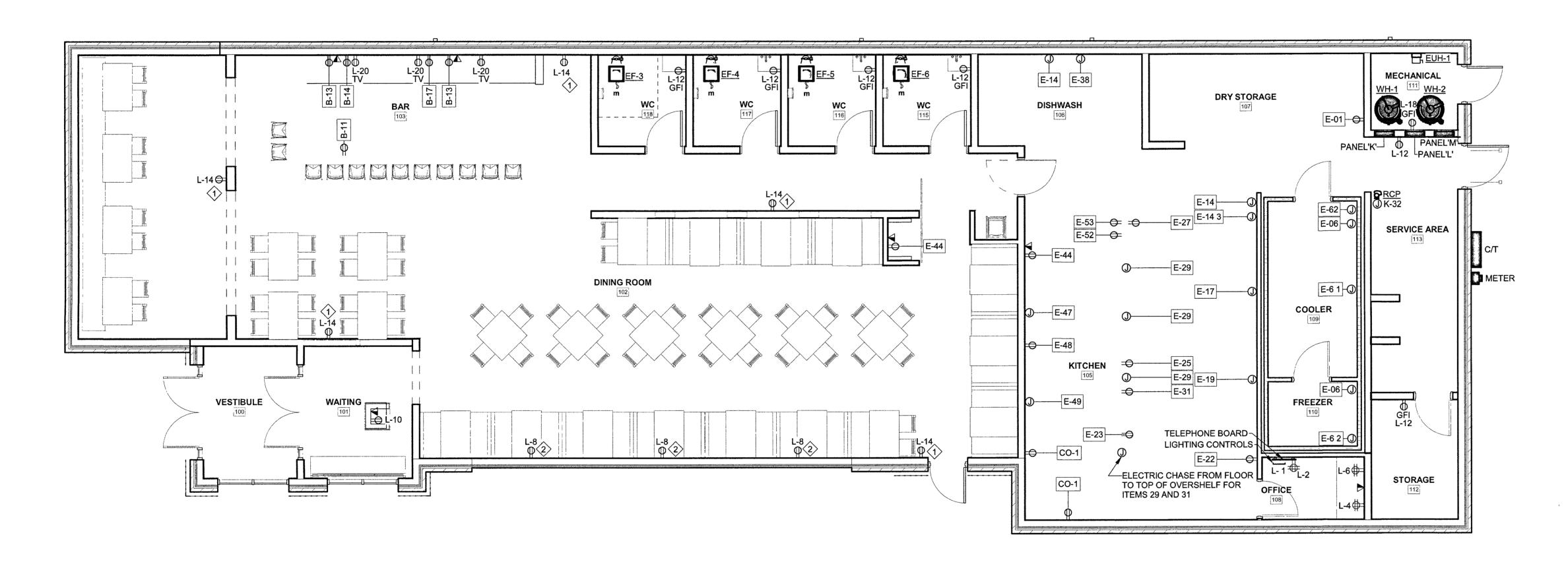
- 1 ALL KITCHEN AND RESTROOM SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER N E C
- 2 ALL GFCI RECEPTACLES 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

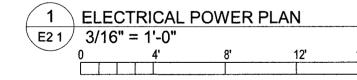
POWER GENERAL NOTES:

- 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







DEVITA & ASSOCIATES, INC

No C00415





DP3 Architects, Ltd.

15 South Main Street, Suite 400
Greenville, SC 29601
864 232 8200

www DP3architects com

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ELECTRICAL POWER PLAN

E2.1

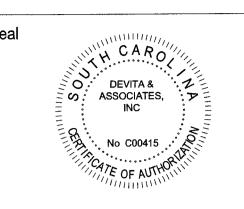
GENERAL NOTES:

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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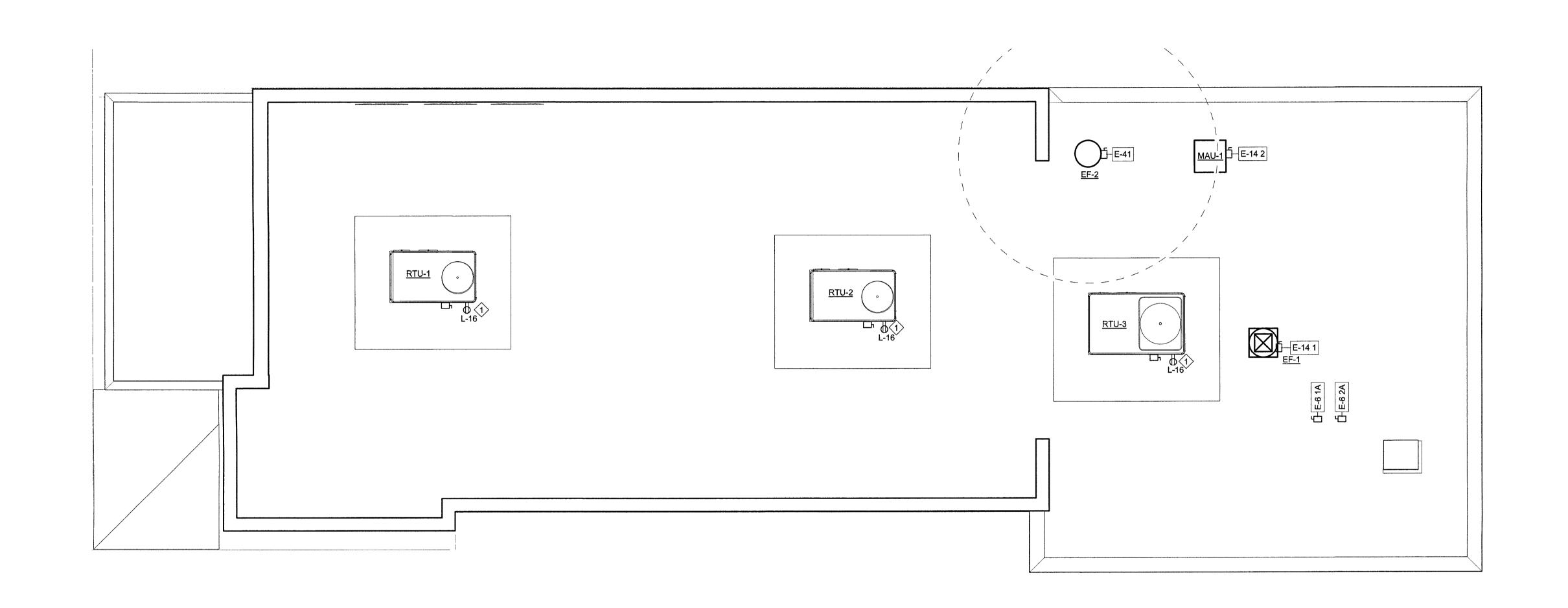
Revisions

23213 DMN RAG Issue Date

Drawing

ELECTRICAL ROOF PLAN

E2.2



1 ELECTRICAL ROOF PLAN
E2.2 3/16" = 1'-0"
0 4' 8' 12'

	5	anel	: N	1													Remarks:			
								Volta	ge: 12	20/208	8 Wye			Min S	SCCR: 2	22k Al	C SE RATED PANEL			
	Phases: 3												Mounting: SURFACE							
									es: 4				Fe		Rating: 4					
								Enclosu		VDE 1	Y				Rating: 4		Type: MCB			
				· · · · · · · · · · · · · · · · · · ·				Liiciosu		11 6 4				arier i	vaurig.	1007	Type: WOD		T	
								Α ((VA)	-	В (VA)	C (VA)							
BRKR		Notes		Circuit D	Circuit Description		Т	(,			- \		,		- 7	СКТ	Circuit Description	Notes	es BRKF	
						1		9008	156	30						2	E-6 1A WALK-IN COOLER		2	20 A
100 A	3		PAN	IEL K		3					10520	1560				4	CONDENSER		2	20 A
						5							94	40	2184	6	E-6 2A WALK-IN FREEZER		2	30 A
						7		4266	218	34						8	CONDENSER		_	JU A
100 A	3		PAN	IEL L		9					6694	1843				10	E-14 1 EXHAUST FAN 1 - COOKLINE		2	25 A
						11	_						64	94	1843	12	E-14 TEXTIAGGITANT - GOOKENEE			
						13		4524	171							14	E-14 2 MAKEUP AIR UNIT 1		2	25 A
50 A	3		RTU	J-1		1:					4524	1716				16				
						17	\rightarrow						45	24	696	18	E-41 EXHAUST FAN 2 - WAREWASH		1	20 A
							9	5652	50	-						20	EUH-1		2	20 A
70 A	3		RTL	J-2		2	_				5652	500				22				
						23							56	552		24	SPACE		1	
						2	\rightarrow	7116								26	SPACE		1	
90 A	3		RTL	J-3		27	_				7116					28	SPACE		1	
						29							71	116		30	SPACE		1	
	1		SPA			3′	_									32	SPACE		1	
	1		SPA			33	_		<u> </u>							34	SPACE	ļ	1	
	1		SPA			3								-		36	SPACE	<u> </u>	1	
	1		SPA			37										38	SPACE		1	
	1		SPA			39	-									40	SPACE		1	
	1		SPA	ACE		4	1				404					42	SPACE		1	
							1_	3652	26 VA		4012	25 VA		37949) VA	<u></u>				
				Lighting	HVAC	Motor	<u> </u>	Recep	tacle	Refri	a	Kitchen		Misc			PANEL TOTALS:			
Connec	ted	Load		10806 VA	61938 VA	11,0101		5820 V		, (0)11	5	35736 VA		300 V	A		7,4411 10 171101			
Demand				125 00%	100 00%			NEC				65 00%		100 00			Total Conn. Load: 114600 VA			
Demand	L	oad		13508 VA	61938 VA			5820 V	Ά			23228 VA	1	300 V	Α		Total Est. Demand: 104794 VA			
																	Total Conn. Current: 318 A			
																	Total Est. Demand 291 A			

PANEL NOTES:

A - AFCI BREAKER

GFI CIRCUIT BREAKER

ISOLATED GROUND CIRCUIT

OF CIRCUIT BREAKER

ST - SHUNT TRIP CIRCUIT BREAKER

SUB-FEED CIRCUIT BREAKER

N - NEW BREAKER INSTALLED IN EXISTING PANEL

ROUTE CIRCUIT HOMERUN VIA CONTACTOR INDICATED

PROVIDE LOCK-ON DEVICE FOR CIRCUIT BREAKER

PROVIDE PAD-LOCK ATTACHMENT FOR MAINTENANCE LOCK-OUT

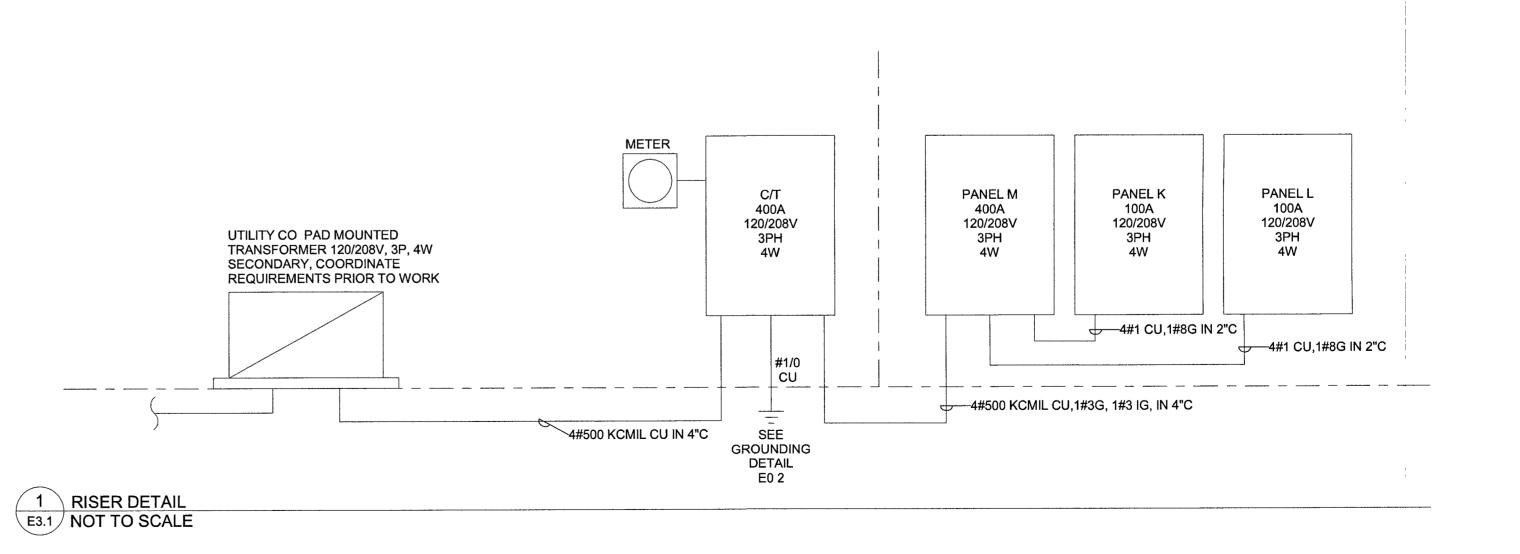
PRE-WIRED INTERNAL CIRCUIT BY SWITCHGEAR MANUFACTURER

EXISTING BREAKER AND CIRCUIT IN EXISTING PANEL TO REMAIN

- REUSE EXISTING BREAKER IN EXISITNG PANEL WITH NEW LOAD

F	Da	nel	: K										Remark	<u>s:</u>			
_			-			Voltage: 120/208 Wye Phases: 3 Wires: 4 Enclosure: TYPE 4X					Min SCCR: 22K AIC PROVIDE ISOLATED GROUND BUS						
											Mounting: SURFACE Feeder Rating: 125 A						
											Panel Rating: 100 A Type: MLO						
											. waiiy.	T	1,700. 11120		1		
BRKR		Notes	Circuit D	escription	скт	A			В	С		СКТ	Cırcuit Descripti	on N	Notes	BRKE	
	1		E-01 BAG IN BO		1	180	336	1			1		B-11 BACK BAR COOLER		G	1	20
2071	1		E-06 WALK-IN L		3	100	000	360	180		,	4	B-13 POS/PRINTER 1		,IG	1	20
	1		E-6 1 WALK-IN C		5				100	216	180	6	B-13 POS/PRINTER 2		,IG	1	20
	1		E-6 2 WALK-IN F		7	180	252				1.00	8	B-14 BACK BAR COOLER		G	1	20
	1	·····	E-14 EXH HOOD		9			1000	480			10	B-17 GLASS SANITIZER		G	1	20
	1		E-14 EXH HOOD		11				1	1000	1220	12					
20 A	1	LO	E-14 3 FIRE SUF		13	500	122	0				14	E-29 OVERHEAD WARME	K		2	20 A
20 A	1		E-17 CHEF BASI		15			600	1220			16	E 00 0)/EDUEAD 14/A 24/E	_			00
20 A	1		E-19 CONVECTI	ON OVEN	17		1			948	1220	18	E-29 OVERHEAD WARME	K		2	20 /
20 A	1	G	E-22 REACH-IN		19	1320	122	0				20	E-29 OVERHEAD WARMER E-49 ICE MAKER			2	20
20 A	1	G	E-23 WORKTOP		21			300	1220			22				2	20
20 A	1	G	E-25 SAND/SAL	AD REFRIG	23					588	1300	24				2	20
20 A	1	G	E-27 SAND/SAL	AD REFRIG	25	588	130	0				26	E-49 ICE WAKEK			2	20
20 A	1	G	E-31 MICROWAY	/E OVEN	27			1500	1920			28	E-38 WAREWASHER			1	20
20 A	1	G,IG	E-44 POS/PRINT	ER	29					180	360	30	E-CO KITCHEN CONVENI	ENCE	G	1	20
20 A	1	G,IG	E-44 POS/PRINT	ER	31	180	100)				32	RECIRC PUMP			1	20
20 A	1		E-47 COFFEE/TEA BREWER		33			1500	0			34	SPARE			1	20
20 A	1	G	E-48 SODA DISPENSER		35					500	0	36	SPARE			1	20
20 A	1	G	E-52 NACHO CH	IIP WARMER	37	1632						38	SPACE			1	
20 A	1	G	E-53 UC REFRIC	SERATOR	39			240				40	SPACE			1	
20 A	1		E-62 REMOTE B	EV COOLING	41					1728		42	SPACE			1	
						900	8 VA	105	20 VA	944	0 VA						
Lighting HVAC M			Motors	ors Receptacle F		Refrig Kitcher		Misc			PANEL TOTALS:						
Connected Load 0 VA				720 VA		28248			0 VA								
Demand Factor				Not		NEC			65 00%				Total Conn. Load:				
Demand Load		0 VA		720 VA			18361 VA	0 VA	0 VA		Total Est. Demand: 19081 VA						
													Total Conn. Current:				
													Total Est. Demand	53 A			

	Pa	anel	: L											Remark	s:			
							Voltage: 120/208 Wye Phases: 3 Wires: 4 Enclosure: TYPE 4X					Min SCCR: 22K AIC Mounting: SURFACE						
												Feeder Rating: 125 A						
												el Rating:		Type: MLO				
			1				ministration in the state of th						10071	Typot mes		Т		
BRKR		Notes	Circuit Description		СКТ	A (VA)		В	(VA)	С	C (VA)		Circuit Descripti	on Notes	3	BRKR		
20 A	1		LTG	- TIMECLO	· · · · · · · · · · · · · · · · · · ·	1	300	360					2	REC - TELEPHONE BOAR	RD	1	20 A	
20 A	1	C2			R FRONT SIGN	١ 3			1200	360			4	REC - OFFICE 1		1	20 A	
20 A	1	C2	LTG	- EXTERIO	R BUILDING	5					440	360	6	REC - OFFICE 2		1	20 A	
20 A	1	C1	LTG	- DINING F	PENDANTS	7	195	540					8	REC - SHOW WINDOW	C1	1	20 A	
20 A	1	C1	LTG	- FRONT	INING AREA	9			300	180			10	REC - HOSTESS STAND		1	20 A	
20 A	1	LO, C1	LTG	- RESTRO	OMS/BAR/EM	11					630	1080	12	REC - RESTROOM/BOH		1	20 A	
20 A	1	LO	LTG	- BOH STE	RIPS/EM	13	423	900					14	REC - DINING CONVENIE	NCE	1	20 A	
20 A	1	LO	LTG	- BOH/EM		15			1714	540			16	REC - HVAC		1		
20 A	1	C1	LTG	- TRACK		17					144	1440	18	REC - WATER HEATER		1	 	
20 A	1	C1	LTG	- ENTRY /	WAITING	19	960	540					20	REC - TVS		1		
20 A	1	C2	LTG	- SITE LIG	HTING	21			1200	0			22	SPARE		1		
20 A	1	C2	LTG	- SITE LIG	HTING	23					1200	0	24	SPARE		1		
20 A	1	C1	EF-3	3,4,5,6		25	48	0					26	SPARE		1		
20 A	1	C2	LTG	- MONUMI	ENT SIGN	27			1200	0			28	SPARE		1		
20 A	1	C2	LTG	- EXTERIO	R TOWER	29					1200	0	30	SPARE		1		
20 A	1		SPA	RE		31	0						32	SPACE		1		
20 A	1		SPA	RE		33 35			0				34	SPACE		1		
20 A	1		SPA	PARE							0		36	SPACE		1		
	1		SPA		37							38	SPACE		1			
	1		SPA	CE		39							40	SPACE		1		
-	1		SPA	CE		41							42	SPACE		1		
							42	66 VA	669	4 VA	64	94 VA						
						Motors	Recep	Receptacle Refrig			Kitchen Misc			PANEL TOTALS:				
Connected Load 10806 VA 1248 VA			1248 VA		5100 \				300									
Demand Factor				125 00%	100 00%		NEC				100	100 00%		Total Conn. Load:				
Demand Lo		Load 13508 VA 1248 VA				5100 \	/A			300	300 VA Total Est. Demand: 20156 VA							
														Total Conn. Current:			r	
														Total Est. Demand	56 A		1	





DEVITA & ASSOCIATES, INC

No C00415

No C00415



DP3
ARCHITECTS

DP3 Architects, Ltd

15 South Main Street, Suite 400
Greenville, SC 29601
864 232 8200
www DP3architects com

Project

MARIACHIS RESTAURANT LANCASTER, SC

> 23213 DMN RAG Issue Date

Project Number Drawn By Checked By Date

Revisions

Drawing

ELECTRICAL PANEL SCHEDULES AND RISER DIAGRAM

E3.1