

ELECTRICAL SPECIFICATIONS




































GENERAL NOTES

NOTICE

THESE DRAWINGS ARE SUBJECT TO APPROVAL BY THE BUILDING DEPARTMENT, FIRE MARSHAL, UTILITY COMPANY AND OTHER AUTHORITIES HAVING JURISDICTION (AHJ), BY THE ACT OF SUBMITTING A BID PROPOSAL FOR WORK, THE CONTRACTOR INDICATES THAT HE OR SHE HAS REVIEWED THE PLANS THOROUGHLY AND ACCEPTED FULL RESPONSIBILITY OF PLAN CORRECTIONS AND ASSOCIATED CONSTRUCTION COSTS REQUIRED BY AHJ.

1. THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND THE DOCUMENTS SHALL BE USED FOR THE PURPOSE OF BIDDING, BUILDING DEPARTMENT REVIEW, AND TO SECURE THE NECESSARY CONSTRUCTION PERMIT ONLY.
2. BRANCH CIRCUITING AND WIRE COUNT MAY NOT BE INDICATED ON THESE PLANS. CONTRACTOR IS RESPONSIBLE TO COMPLETE THE BRANCH CIRCUIT WIRING IN ACCORDANCE WITH PLAN NOTES AND AS PERMITTED BY AUTHORITY. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS AS A PART OF RECORD DRAWING SUBMITTAL TO ARCHITECT AND AUTHORITY HAVING JURISDICTION (AHJ).
3. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH BOTH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES / AMENDMENTS. WHERE CONFLICTS ARISE, THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.
4. ALL ELECTRICAL EQUIPMENT SHOWN IS NEW, CONTRACTOR FURNISHED AND INSTALLED, UNLESS OTHERWISE NOTED. IF CONTRACTOR PROPOSES TO SUBSTITUTE SPECIFIC EQUIPMENT SPECIFIED, A REQUEST FOR CONSIDERATION SHALL BE SUBMITTED TO THE OWNER AND ENGINEER PRIOR TO THE BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. NO SUBSTITUTIONS SHALL BE IMPLEMENTED WITHOUT THE APPROVAL OF THE ENGINEER OR RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE, AT HIS OWN EXPENSE, FOR ANY CHANGE RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, OR SUBSTITUTIONS WHICH AFFECT THE WORK OF OTHER CONTRACTORS.
5. THE ELECTRICAL DRAWINGS, CONDUIT RUNS, WIRING AND ELECTRICAL INFORMATION ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE EXACT LOCATION OF ELECTRICAL OUTLETS. COORDINATE WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
6. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES, CEILING MOUNTED OUTLETS AND EQUIPMENT.
7. ALL DEVICE MOUNTING HEIGHTS AND EXACT LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPES OF CEILING SYSTEM FIXTURES LOCATED IN DAMP OR WET LOCATIONS SHALL BE LISTED AND LABELED FOR USE IN SUCH LOCATIONS. CONTRACTOR SHALL PROVIDE ALL REQUIRED TRIMS AND HARDWARE TO ACCOMMODATE CEILING TYPE.
9. ALL RECESSED LIGHTING FIXTURES, PANELBOARDS, SWITCHES, ETC., MOUNTED IN FIRE RATED STRUCTURES SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE STRUCTURE. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC., TO MAINTAIN THE FIRE RATING. FURNISH AND INSTALL FIRE RATED ENCLOSURE FOR ALL EQUIPMENT PENETRATING INTO FIRE RATED ENVELOPS, SPACES ETC.
10. PORTIONS OF THE CEILING SYSTEMS MAY BE INACCESSIBLE, THEREFORE, THE CONTRACTOR SHALL STRATEGICALLY LOCATE ACCESS BOXES, ETC., WHICH SHALL BE READILY ACCESSIBLE. ALL LIGHTING FIXTURE WIRING, BALLASTS, J-BOXES, ETC. SHALL BE ACCESSIBLE FROM FIXTURE OPENING.
11. ALL WIRING AND ELECTRICAL EQUIPMENT SERVING MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH MECHANICAL AND PLUMBING SPECIFICATIONS AND ASSOCIATED DRAWINGS. CONTRACTOR SHALL OBTAIN THE REQUIRED MECHANICAL AND PLUMBING DRAWINGS AND PROVIDE ALL EQUIPMENT, RACEWAYS, WIRING, FITTINGS, ETC., AS INDICATED ON CONSTRUCTION DOCUMENTS.
12. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED. VERIFY ELECTRICAL CHARACTERISTICS AND U.L. LISTING PRIOR TO CONNECTION.
13. THE CONTRACTOR SHALL VERIFY THE LOAD AND INPUT VOLTAGE OF ALL PROVIDED EQUIPMENT TO MATCH LOAD INPUT OF ALL EQUIPMENT BEING SUBSTITUTED.
14. ELECTRICAL OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS AND PARTITIONS MUST BE SEPARATED BY DISTANCE OF 24 IN. HORIZONTALLY, IN ACCORDANCE WITH I.B.C. SEC. 711.3.2. OPENINGS IN FIRE RATED WALLS MUST BE FIRE STOPPED.
15. PROVIDE AN ADDITIONAL JUNCTION BOX EXTENSION RING (SIZE AS REQUIRED) WHERE THE NUMBER OF CONDUCTORS EXCEEDS THE MAXIMUM ALLOWED FOR A GIVEN JUNCTION POINT OR OUTLET.
16. CONDUCTORS SHALL BE COPPER THHN/THWN 600 VOLT INSULATION UNLESS OTHERWISE NOTED. USE PROPER TEMPERATURE RATINGS OF CONDUCTORS BASED ON THE AMBIENT AIR TEMPERATURE WHERE CONDUCTORS ARE BEING USED. HIGHER AMPACITY CONDUCTOR AND LARGER RACEWAY SHALL BE PROVIDED TO OFFSET THE AMPACITY CORRECTION FACTORS AS INDICATED IN NEC ARTICLE 310 AND ELSEWHERE IN CODE.
17. ALL LIGHTING FIXTURES PROVIDED BY PANDA EXPRESS INSTALLED BY GC UNLESS NOTED OTHERWISE.
18. DO ALL DRILLING, CUTTING, AND/OR CHANNELING AS REQUIRED FOR ELECTRICAL WORK INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL EXPOSED ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTING TO MATCH IN COLOR TO ADJACENT SURFACES IN FINISHED AREAS. (PROTECT UL LISTINGS LABELS FROM PAINT).
19. EMERGENCY LIGHTING SHALL BE PROVIDED PER U.B.C. PROVIDE ADDITIONAL EMERGENCY ILLUMINATION AS REQUIRED BY AUTHORITIES HAVING JURISDICTIONS.
20. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA.

FIXED EQUIPMENT ON GRADE:	33% OF
OPERATING WEIGHT	
FIXED EQUIPMENT ON STRUCTURE:	50% OF
OPERATING WEIGHT	
EMERGENCY POWER AND COMMUNICATION & EQUIPMENT ON GRADE:	50% OF
OPERATING WEIGHT	
EMERGENCY POWER AND COMMUNICATION ON STRUCTURE:	75% OF
OPERATING WEIGHT	
- FOR FLEXIBLE MOUNTED EQUIPMENT DOUBLE THE ABOVE VALUES. SIMULTANEOUS VERTICAL FORCE - USE 1/3 HORIZONTAL FORCE. CONDUIT, BUSDUCT, CABLE TRAY, WIREWAYS, ETC., SHALL BE BRACED IN ACCORDANCE WITH "GUIDELINES", PUBLISHED BY SMAACNA AND PPIC.

ELECTRICAL SYMBOLS LIST																																																																	
NOTE: ALL DIMENSIONS GIVEN ARE TO DEVICE CENTERLINES. CONTRACTOR TO COORDINATE ALL INSTALLATIONS.																																																																	
POWER DISTRIBUTION	RECEPTACLES & COMMUNICATIONS OUTLETS																																																																
<div><div></div><div>SINGLE-POLE SWITCH, MANUAL MOTOR STARTER</div></div> <div><div></div><div>J-BOX (WITH FLEX CONNECTION TO EQUIPMENT.)</div></div> <div><div></div><div>DISCONNECT SWITCH, WITH RATING AS SHOWN ON PLANS</div></div> <div><div></div><div>COMBINATION DISCONNECT SWITCH / MOTOR STARTER FURNISHED BY ELECTRICAL CONTRACTOR.</div></div> <div><div></div><div>BRANCH CIRCUITRY CONCEALED IN WALL OR CEILING WITH ADDITIONAL #12 INSULATED GND. U.N.O. HACHURES INDICATE NUMBER OF CURRENT CARRYING CONDUCTORS. 'X' INDICATES ADDITIONAL INSULATED, ISOLATED GROUND CONDUCTORS.</div></div> <div><div></div><div>BRANCH CIRCUITRY HOMERUN TO PANEL AS NOTED ON PLANS</div></div> <div><div></div><div>INDICATES EXTERIOR UNDERGROUND WIRE RUNS.</div></div>	<div><div></div><div>DUPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O.</div></div> <div><div></div><div>SIMPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O.</div></div> <div><div></div><div>ISOLATED GROUND SIMPLEX CONVENIENCE OUTLET (ORANGE), 20A., 125V., MTD @ +18" A.F.F.</div></div> <div><div></div><div>DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPLASH OR APPROXIMATELY 44" A.F.F.</div></div> <div><div></div><div>GFCI DUPLEX CONVENIENCE OUTLET, 20A, 125V, 5 mA TRIP, MTD @ 18" A.F.F. U.N.O.</div></div> <div><div></div><div>GFCI DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPLASH OR APPROXIMATELY 44" A.F.F.</div></div> <div><div></div><div>TELEPHONE OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF U.N.O W/ 1" CONDUIT W/ PULL WIRE TO MANAGER'S STATION. 'W' SUBSCRIPT INDICATES WALL PHONE AT 54" AFF.</div></div> <div><div></div><div>DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION.</div></div> <div><div></div><div>COMBINATION TEL/DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION.</div></div> <div><div></div><div>T.V. SYSTEM DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION. WHEN SHOWN ADJACENT RECEPTACLE, MOUNT AT RECEPTACLE HEIGHT. REFER TO RECEPTACLE FOR MOUNTING HEIGHT.</div></div> <div><div></div><div>SPECIAL PURPOSE RECEPTACLE MTD. @ 18" A.F.F. U.N.O., AMPERAGE AND PHASE AS NOTED ON PLANS, NEMA CONFIGURATION AS REQ'D.</div></div> <div><div></div><div>ISOLATED GROUND DUPLEX CONVENIENCE OUTLET (ORANGE), 20A., 125V., MTD @ +18" A.F.F.</div></div> <div><div></div><div>DOUBLE DUPLEX CONVENIENCE OUTLETS UNDER COMMON COVER</div></div> <div><div></div><div>ISOLATED DOUBLE DUPLEX CONVENIENCE OUTLETS (ORANGE) 20A., 125V.</div></div> <div><div></div><div>SPEAKER</div></div>																																																																
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<div><div></div><div>LIGHTING FIXTURE. SUBSCRIPT LETTER DENOTES FIXTURE TYPE AS DESCRIBED IN LIGHT FIXTURE SCHEDULE.</div></div> <div><div></div><div>SINGLE-POLE SWITCH @ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 300V. 20A.</div></div> <div><div></div><div>LEVITON Renoir II WALLBOX DIMMER - SINGLE-POLE SWITCH @ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 120V. BALLAST 0-10V</div></div> <div><div></div><div>OCCUPANCY SENSOR SWITCH WITH OFF CONTROL, AND ADJUSTABLE SETTINGS FOR TIME OFF DELAY, FOOTCANDLE LEVEL, AND MASKING. WATTSTOPPER OR EQUAL, MOUNT AT 44" A.F.F. U.N.O. USE PW-100 FOR OFFICES/CONF/ETC.</div></div> <div><div></div><div>LEVITON PROVOLT 05C20-MDW DIMMING DAYLIGHT SENSOR FOR SIDLIT DAYLIGHTING ZONES. LOCATE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. ALL CONTROLS SHALL COMPLY WITH LOCAL ENERGY CODE REQUIREMENTS. PROVIDE LOCAL MANUAL SWITCH AS SHOWN IN THE LIGHTING PLAN FOR ON / OFF CONTROL</div></div>																																																																	
ABBREVIATIONS	FIRE ALARM																																																																
<table><tr><td>A</td><td>AMPERES</td><td>M.C.B.</td><td>MAIN CIRCUIT BREAKER</td></tr><tr><td>AL</td><td>ALUMINUM</td><td>M.L.O.</td><td>MAIN LUGS ONLY</td></tr><tr><td>A.F.F.</td><td>ABOVE FINISHED FLOOR</td><td>MTD.</td><td>MOUNTED</td></tr><tr><td>A.F.G.</td><td>ABOVE FINISHED GRADE</td><td>P</td><td>POLE</td></tr><tr><td>C</td><td>CONDUIT</td><td>SW</td><td>SWITCH</td></tr><tr><td>C/B</td><td>CIRCUIT BREAKER</td><td>T.M.B.</td><td>TELEPHONE MOUNTING BOARD</td></tr><tr><td>CU.</td><td>COPPER</td><td>TYP.</td><td>TYPICAL</td></tr><tr><td>DISC.</td><td>DISCONNECT</td><td>U.N.O.</td><td>UNLESS NOTED OTHERWISE</td></tr><tr><td>F</td><td>FUSE</td><td>V.</td><td>VOLTS</td></tr><tr><td>GFI</td><td>GROUND FAULT</td><td>W</td><td>WIRE</td></tr><tr><td>INT</td><td>CURRENT INTERRUPTER</td><td>WP</td><td>WEATHERPROOF</td></tr><tr><td>GND.</td><td>GROUND</td><td>XFMR</td><td>TRANSFORMER</td></tr><tr><td>H.P.</td><td>HORSE POWER</td><td>Ø</td><td>PHASE</td></tr><tr><td>k</td><td>1000</td><td></td><td></td></tr><tr><td>E.C.</td><td>ELECTRICAL CONTRACTOR</td><td></td><td></td></tr><tr><td>G.C.</td><td>GENERAL CONTRACTOR</td><td></td><td></td></tr></table>	A	AMPERES	M.C.B.	MAIN CIRCUIT BREAKER	AL	ALUMINUM	M.L.O.	MAIN LUGS ONLY	A.F.F.	ABOVE FINISHED FLOOR	MTD.	MOUNTED	A.F.G.	ABOVE FINISHED GRADE	P	POLE	C	CONDUIT	SW	SWITCH	C/B	CIRCUIT BREAKER	T.M.B.	TELEPHONE MOUNTING BOARD	CU.	COPPER	TYP.	TYPICAL	DISC.	DISCONNECT	U.N.O.	UNLESS NOTED OTHERWISE	F	FUSE	V.	VOLTS	GFI	GROUND FAULT	W	WIRE	INT	CURRENT INTERRUPTER	WP	WEATHERPROOF	GND.	GROUND	XFMR	TRANSFORMER	H.P.	HORSE POWER	Ø	PHASE	k	1000			E.C.	ELECTRICAL CONTRACTOR			G.C.	GENERAL CONTRACTOR			<div><div></div><div>MANUAL PULL STATION WITH KEYED RESET. MOUNT UNIT AT 44" A.F.F. ALIGN WITH LIGHT SWITCH IF APPLICABLE.</div></div> <div><div></div><div>XENON STROBE UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER). MUST MEET OR EXCEED A.D.A. REQUIREMENTS.</div></div> <div><div></div><div>COMBINATION XENON STROBE AND HORN/CHIME UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER). UNIT MUST MEET OR EXCEED A.D.A. REQUIREMENTS.</div></div> <div><div><div></div>FACP</div><div>FIRE ALARM CONTROL PANEL. MOUNT TOP OF UNIT AT 72" A.F.F.</div></div> <div><div><div></div>FAAP</div><div>FIRE ALARM ANNUNCIATION PANEL. MOUNT TOP OF UNIT AT 72" A.F.F.</div></div> <div><div></div><div>PHOTO ELECTRIC TYPE SMOKE DETECTOR.</div></div> <div><div></div><div>DUCT MOUNTED PHOTO ELECTRIC SMOKE DETECTOR.</div></div> <div><div></div><div>RATE OF RISE HEAT DETECTOR.</div></div>
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PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

1	04.29.2021	ISSUE FOR PERMIT
2	06.04.2021	ISSUE FOR BID

DRAWN BY: JEL

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2600 Maitland Center Pkwy, Maitland, FL 32751
P (407) 661-9100
F (407) 661-9101

Florida Registered Professional F.A.A. 000026

06.04.2021

PANDA EXPRESS

TRUE WARM AND WELCOME 2300
SKYBROOKE BOULEVARD & STATE ROAD 54
LUTZ, FL 33558

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ELECTRICAL SYMBOLS
SPECIFICATIONS, NOTES

ELECTRICAL SPECIFICATIONS

3

NOT TO SCALE

E-000

GENERAL NOTES

2

NOT TO SCALE

E-000

ELECTRICAL SYMBOLS

1

NOT TO SCALE

E-000

LIGHTING FIXTURE SCHEDULE			PROVIDED FOR INFORMATION ONLY. VERIFY AND INSTALL PER ELECTRICAL DRAWING			
ITEM	SYMBOL	DESCRIPTION	QTY.	WATTS	MFR. & CAT. NO.	REMARK
INTERIOR LIGHTING ITEM						
L1		T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	7	45	LSI FFP24-LED-50-UE-DIM-35	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC
L1B		T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 2', 120V BAKED-ON WHITE ENAMEL FINISH.	1	36	LSI FFP22-LED-30-UE-DIM-35-U	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC
L1EM		T-BAR CEILING RECESSED MOUNTED LED LIGHTING EMERGENCY FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	3	45	LSI FFP24-LED-50-UE-DIM-EM	EMERGENCY KITCHEN CEILING LIGHTS FURNISHED BY OWNER INSTALLED BY GC
L4H		UNIVERSAL MOUNT EXIT SIGN, LED LIGHTED, 120/277V WITH BATTERY PACK, 2 FACE, GREEN LETTER	3	3.6	EXITRONX GVEX-U-BP-WB-BL-R6	EXIT SIGN FURNISHED BY OWNER, INSTALLED BY GC
L6A		HOOD LIGHT	12	40	FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER	LIGHTS SUPPLIED & PRE-WIRED BY HOOD VENDOR. ELECTRIC CONTRACTOR TO CONNECT MAIN WIRES TO SHUNT TRIP BREAKER AND HOOD CONTROL PANEL
L6B		WALK-IN COOLER FLUORESCENT LIGHT, 120 V 48"	3	56	KASON FIXTURE # 1810LX4000	FURNISHED BY WIC VENDOR, G.R.E., INSTALLED BY GC
L19		DOWN LIGHT, RECESSED IN CEILING	42	14	ELITE HOUSING, LDRIC-AT LED MODULE ELITE LED LIGHTING RL607-750L-DIMTR-120-30K-SN-SN-90	FURNISHED BY OWNER, INSTALLED BY GC
L19EM		EMERGENCY DOWN LIGHT, RECESSED IN CEILING	6	14	ELITE HOUSING, LDRIC-AT LED MODULE ELITE LED LIGHTING RL607-750L-DIMTR-120-30K-SN-SN-90	EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IM-12-LC-V1 FURNISHED BY OWNER INSTALLED BY GC
L20		3'34" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING	11	37	LIGHTOLIER- LYTCASTER-378WHX FRAME-KIT, 30MR5PX BULB: MR16 - GE - PRECISE IR 37 WATT 40° BEAM	FURNISHED BY OWNER, INSTALLED BY GC
L30		WHITE LED AT SERVICE COUNTER SOFFIT & DINING ROOM PARTIAL HEIGHT WALL	57 L.F.	1.08 W/L	LUXEM BRIGHT FIXTURE: BLAZE LED	FURNISHED BY OWNER, INSTALLED BY GC
L43		12" DIA. DECORATIVE BAYLOR PENDANT LF INCANDESCENT	12	4	LBL LIGHTING, MODEL # P14610RB BULB: LED EDISON LAMP, 1173467	FURNISHED BY OWNER, INSTALLED BY GC
L45		12" DIA. DECORATIVE MORILL PENDANT LF INCANDESCENT	5	4	LBL LIGHTING, MODEL # 6227801-838 BULB: LED EDISON LAMP, 1173467	FURNISHED BY OWNER, INSTALLED BY GC
L100		MICRO INVERTER	1		ISOLITE #IMI 125	FURNISHED BY OWNER, INSTALLED BY GC
		SPEAKER				FURNISHED BY MUSIC VENDOR, INSTALLED BY MUSIC VENDOR
L1F		FESTOON LIGHTING	62 FT. - 31 LAMP HOLDERS	1 WATT	LIGHTCRAFT OUTDOOR 62' BK-LE26-S BK-LEAD 62' LED-BK-S14-1-120	FURNISHED BY OWNER, INSTALLED BY GC
NIGHT LIGHTING REQUIREMENTS: "NL" DESIGNATION INDICATED NIGHT LIGHT ON UNSWITCHED CIRCUIT.						
1. ONE NL BY SERVICE COUNTER, POS / CASHIER						
2. ONE NL BY POS / CASHIER AT DRIVE THRU STATION IF APPLICABLE						
3. ONE NL BY EACH EXIT DOORS IN DINNING ROOM & BACK OF HOUSE						
EXTERIOR LIGHTING						
L40		LINEAR LIGHT AT EXTERIOR STORAGE ROOM	1	38	COOPER MX-4472-LD4-6DR-UNV-L840-CDI-WL-U	FURNISHED BY OWNER, INSTALLED BY GC
L85		WALL MOUNTED OVER SERVICE DOOR FIXTURE	1	30	HOWARD: VL305 30W LED, BRONZE	OVER EXTERIOR SERVICE DOOR. REFER ELEVATIONS FOR HEIGHT FURNISHED BY OWNER, INSTALLED BY GC
L86		NAVILITE EMERGENCY LIGHT	2	1.5	EXTRONIX MLED1-G-WP	OVER EXTERIOR ENTRANCE & SERVICE DOORS. REFER ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC
L86-REV		EXTERIOR RECESS EMERGENCY LIGHT	1	14	ELITE HOUSING, LDRIC-AT LED MODULE ELITE LED LIGHTING WET LOCATION: RL607-4W-120L-30K-SN-SN-WET LOCATION	EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IM-12-LC-V1 FURNISHED BY OWNER INSTALLED BY GC
L90		DECORATIVE LED WALL SCONCE	2	6	HINKLEY LIGHTING, ATLANTIS, BRONZE, 1649BZ-LED	AT PORTAL OF ENTRY DOOR. REFER ELEVATIONS FOR HEIGHT FURNISHED BY OWNER, INSTALLED BY GC
L97		LED MOTION SECURITY FLOODLIGHT	2	25	LYTHONIA LIGHTING OLF 29H 40K 120V MO BZ	INTERIOR LIGHT SENSOR TO BE WALL MOUNTED AT +142" FURNISHED BY OWNER, INSTALLED BY GC
L97		DECORATIVE LED WALL SCONCE	4	6	HINKLEY LIGHTING, KORE, BRONZE, 1872BZ-LED	ALONG REAR EIFS BAND FURNISHED BY OWNER, INSTALLED BY GC

[illegible]

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
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Telephone: 626.799.9898
Facsimile: 626.372.8288

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06.08.2021 BID ADDENDUM

[illegible]

DRAWN BY: JEL

PANDA PROJECT #: - S8-22-D8135
C&P PROJECT #: - 2200775



Cuhaci & Peterson
Architects Engineers Planners

2600 Maitland Center Pkwy. Maitland, FL 32751
P (407) 661-9100
F (407) 661-9101
www.opi.com
Florida Corporate Certificate #AA CDE0526

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LUTZ, FL 33558

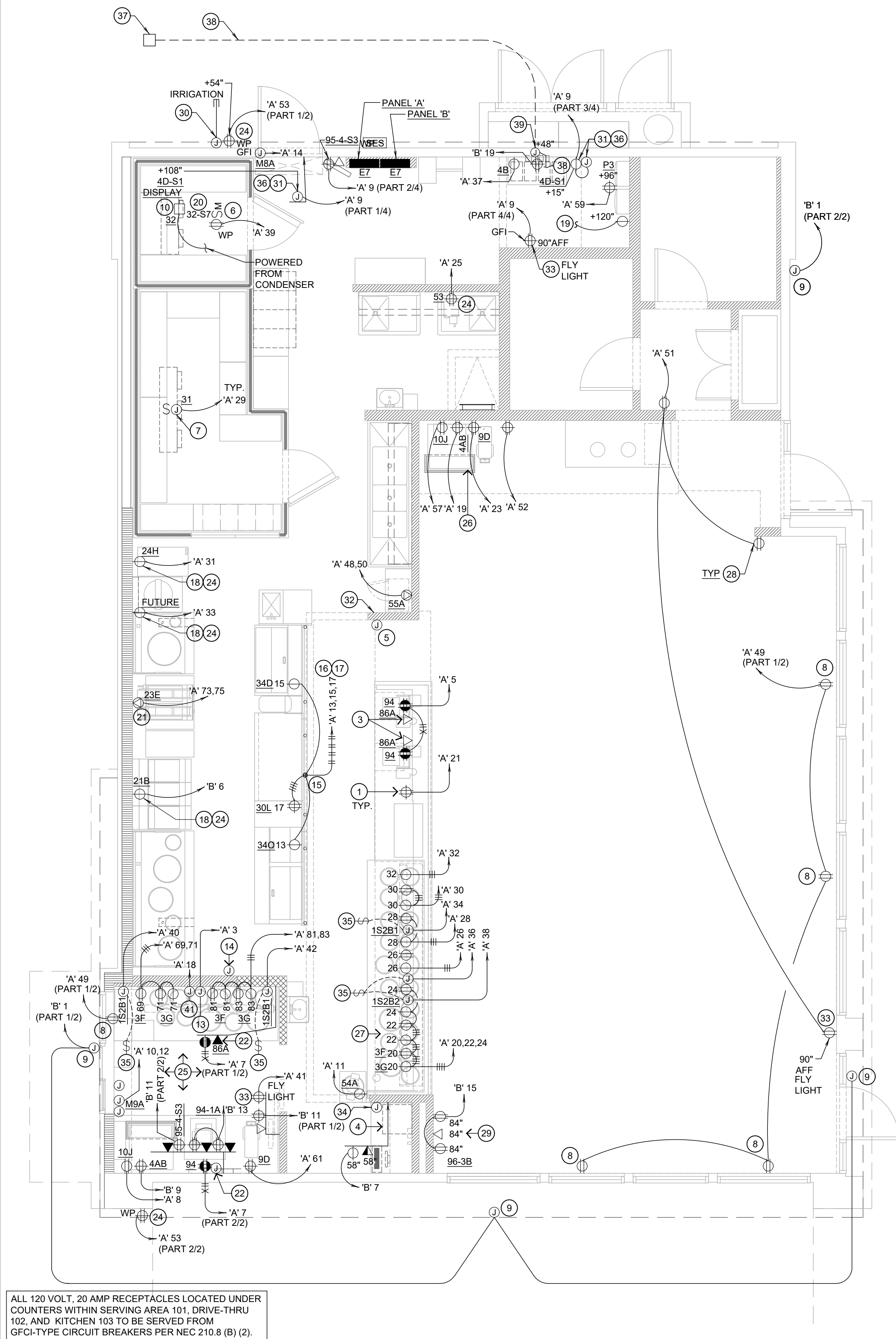
E-001

ELECTRICAL SCHEDULES

TRUE WARM & WELCOME 2300 B4

- ALL CIRCUITRY/CONDUIT FOR FRONT LINE EQUIPMENT TO BE ROUTED IN CASEWORK TO J-BOX IN WALL AND CONCEALED IN WALL.
2. NOT USED.
3. PROVIDE (2) 1-1/2" CONDUITS WITH PULL STRINGS FROM CASH REGISTER TO MANAGER STATION. SEE P.O.S. AND SERVICE LINE ELEVATIONS, 3/E-200.
4. SEE "MANAGER STATION ELEVATION" 1/E-200 FOR ADDITIONAL OUTLETS AND J-BOXES.
5. ANSUL PULL STATION. REFER TO DETAIL, 2/E-400.
6. REFER TO "LTG AND DOOR HEATER" WIRING DIAGRAM, 10/E-400.
7. REFER TO "COOLER EVAPORATOR COIL" WIRING DIAGRAM, 8/E-400.
8. SHOW WINDOW RECEPTACLE SHALL BE CONTROLLED VIA SWITCH "b". REFER TO LIGHTING SWITCHBANK SCHEDULE, SHEET 4/E101. RECEPTACLE SHALL BE MOUNTED IN WALL AS CLOSE TO TOP OF STRUCTURAL HEADER AS POSSIBLE.
9. BUILDING SIGNAGE/LOGO DEDICATED/PROPOSED W/P J-BOX FOR SIGNAGE. COORDINATE LOCATION WITH ARCHITECT / OWNER / SIGN PACKAGE PRIOR TO ROUGH-IN. SIGN DISCONNECT PROVIDED BY SIGN CONTRACTOR.
10. REFER TO "FREEZER EVAPORATOR COIL" WIRING DIAGRAM, 9/E-400. THE FAN COIL UNIT IS POWERED FROM THE CONDENSER UNIT VIA DISCONNECT CONNECTION. HEAT TAPE PROVIDED AND INSTALLED BY ELECTRICIAN.
11. NOT USED.
12. NOT USED.
13. HOOD CONTROL PANEL/ANSUL SYSTEM CABINET. MOUNT CABINET DIRECTLY BELOW T-BAR CEILING.
14. PROVIDE 2-GANG J-BOX @ 48" AFF FOR HOOD CONTROL SWITCHES. REFER TO M-400 AND M-401.
15. 1" CONDUIT STUB UP LOCATION IN STAINLESS STEEL POWER PANEL FOR ISLAND KITCHEN EQUIPMENT CONNECTION. REFER TO DETAIL 2/A-109. COORDINATE LOCATION WITH ARCHITECT / OWNER.
16. ROUTE CABLING / CIRCUITRY THROUGH 1" CONDUIT IN SLAB.
17. UTILIZE SEAL TIGHT CONDUIT FOR ALL WIRING INCLUDED ABOVE LOW WALL PANEL.
18. ALL DEVICES UNDER HOOD TO BE PROVIDED AND INSTALLED WITH GROUND FAULT CIRCUIT BREAKER AND WATERPROOFING BOX (RED DOT #CKSUUV). REFER TO COOKLINE ELECTRICAL ELEVATIONS, 6/E-200. ROUTE HOMERUN THROUGH CONTRACTOR INTERFACED WITH THE HOOD FIRE SUPPRESSION SYSTEM. REFERENCE 13/E-400 FOR ADDITIONAL INFORMATION.
19. SIMPLEX RECEPTACLE TO BE CONNECTED TO BACK-OF-HOUSE LIGHTING CIRCUITRY/CONTROL. CONTRACTOR TO PROVIDE PIGTAIL FROM CIRCULATION PUMP.
20. PROVIDE WEATHERPROOF RECEPTACLE FOR HEAT TAPE. COORDINATE FINAL LOCATION WITH REFRIGERATION INSTALLER.
21. ELECTRIC GRID/LE "23E": FEED WITH (2) #6, (1) #10 GROUND, 3/4" CONDUIT. REFER TO 4/E-200.
22. SEE DRIVE THRU ELEVATION 2/E-200 FOR CONDUIT SIZES AND CONFIGURATIONS.
23. NOT USED.
24. PROVIDE WATERPROOFING, COVER, IN-USE RED DOT (#CKSUUV).
25. SEE FOR DRIVE-THRU ELEVATIONS, 2/E-200.
26. SEE DRINK STATION ELEVATIONS, 5/E-200.
27. SEE 3/E-200 FOR SERVICE LINE ELEVATIONS.
28. SEE DEVICE / RECEPTACLE SCHEDULE 3/E-400.
29. SEE DINING ROOM MONITOR ELEVATION, DETAIL 8/E-200.
30. PROVIDE AND INSTALL 3/4" CONDUIT AND PULL STRING FROM CLOSEST LANDSCAPE AREA, THROUGH WALL UP TO EMPTY FLUSH MOUNTED JUNCTION BOX @ 54" A.F.F. (FOR IRRIGATION CONTROLS). CLOSE OFF CONDUIT IN LANDSCAPE AREA WITH REMOVABLE CAP. UTILIZE WP CIRCUIT A-53 NEAR ENTRY POINT.
31. REFER TO 9/E-200 FOR LOCATION/INSTALLATION OF CO2 MONITOR.
32. SEE SWITCH BANK ELEVATION , DETAIL 7/E-200.
33. FLY LIGHT RECEPTACLE SHALL BE INSTALLED WITH A RECESSED CLOCK OUTLET. TYP OF ALL LOCATIONS.
34. SEE SECURITY KEY PAD ELEVATION 1/E200.
35. CONNECT HEAT LAMPS TO COUNTER-MOUNTED SWITCH PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT PROVIDER.
36. PANDA EXPRESS TO PROVIDE CO2 MONITOR, E.C. TO MOUNT OVER J-BOX WITH WIRING THROUGH WALL CONDUIT FOR CLEAN INSTALLATION. PROVIDE ALL OTHER REQUIRED CONNECTIONS AND COMPONENTS FOR FULLY WORKING SYSTEM.
37. PROVIDE IN-GRADE QUARTZITE 8"x8" PC STYLE POLYMER CONCRETE BOX OR EQUAL FOR UNDERGROUND CABLE REQUIRED FOR THE STORE. PART NO. PC081XXXXX OR SIMILAR. REFER TO ELECTRICAL SITE PLAN 1/E105.
38. PROVIDE 1" CONDUIT FOR CABLE DEDICATED FOR ENTIRE STORE FROM IN-GRADE 8x8 QUARTZITE BOX TO EXTERIOR CLOSET 6x6 FLUSH MOUNTED JUNCTION BOX. TERMINATE INTERIOR ABOVE CEILING.
39. PROVIDE FLUSH MOUNTED NEMA 1 6x6 JUNCTION/PULL BOX AT +48" - HUBBELL OR EQUAL. ROUTE CABLE FROM EXTERIOR 6x6 IN 1" CONDUIT THROUGH BUILDING. TERMINATE INTERIOR ABOVE CEILING.
40. NOT USED.
41. FIRE SUPPRESSION SHUTDOWN CONTACTOR LOCATED ABOVE CEILING , REFER TO 13/E-400.

1. VERIFY QUANTITIES AND REQUIREMENTS OF ALL HVAC & KITCHEN EQUIPMENT PRIOR TO ROUGH IN.
2. ALL TELEPHONE/DATA/TV CABLES AND WIRES, AND TERMINATIONS OF ALL REQUIRED CABLE AND JACKS WILL BE INSTALLED BY THIRD PARTY.
3. POWER SUPPLY FOR COMPUTER AND CASH REGISTER (86A & 94) SHALL BE ON THE SAME CIRCUIT BREAKER, W/ISOLATED GROUND & ORANGE RECEPTACLE.
4. ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
5. WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2017 NEC OR LATER, ALL MULTI-WIRE BRANCH CIRCUITS SHALL HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2017 NEC 210.4(B).
6. TRANSFORMERS SHALL BE MOUNTED ABOVE CEILING BELOW TRUSSES WITH LOW VOLTAGE WIRING FEEDING TO ALL EXTERIOR LIGHTS.
7. ALL UNDERGROUND CONDUIT SHALL BE 12" BELOW F.F.



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1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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2600 Maitland Center Pkwy. Maitland, FL 32751
P (407) 661-9100
F (407) 661-9101
www.gp.com
Florida Composite Certificate #AA C000226

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LUTZ, FL 33558

E-100

POWER FLOOR PLAN

TRUE WARM & WELCOME 2300 R4



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1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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E-101
LIGHTING FLOOR PLAN

TRUE WARM & WELCOME 2300 R4

1. SWITCHBANK 'A'. REFER TO SCHEDULE 4/E-101.
2. ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK 'A' (SWITCHES AS NOTED IN LOWER CASE). REFER TO SCHEDULE 4/E-101 FOR MORE INFORMATION.
3. ROUTE THROUGH CONTACTS IN HOOD CONTROL PANEL 'M4' FOR CIRCUIT POWER. REFER TO 3/E-401.
4. PROVIDE SEPARATE UNSWITCHED HOT CONDUCTOR (SAME CIRCUIT, NOT CONTROLLED BY SWITCH IN SWITCHBANK) TO LOCALLY SWITCHED FIXTURES AND EMERGENCY FIXTURE BATTERY TRIGGER LEADS.
5. DUPLEX RECEPTACLE FOR LED ROPE. INSTALL ABOVE CEILING AT +128". REFER TO 8&9/A-402 FOR MORE INFORMATION.
6. WALK-IN COOLER LIGHT FIXTURES AND PILOT LIGHT SWITCH PROVIDED WITH COOLER INSTALLED BY E.C. REFER TO 'COOLER EVAPORATOR COIL' WIRING DIAGRAM, 8/E-400.
7. WALK-IN FREEZER LIGHT FIXTURE AND PILOT LIGHT SWITCH PROVIDED WITH FREEZER INSTALLED BY E.C. REFER TO 'FREEZER LTG AND DOOR HEATER WIRING DIAGRAM', 10/E-400.
8. NOT USED.
9. FIXTURES IN THIS ROOM SHALL BE LOCALLY SWITCHED.
10. LIGHTING INVERTER FOR EMERGENCY LIGHTING TO BE MOUNTED TO BULKHEAD. RE: 9/E200.
11. LED TRANSFORMER FOR LED ROPE LIGHTING LOCATION, MOUNT ABOVE CEILING.
12. DUPLEX RECEPTACLE FOR LED ROPE. INSTALL ABOVE CEILING AT +150"
13. PROVIDE JUNCTION BOX ABOVE CEILING FOR THE BZ-150 UNIVERSAL POWER PACK REQUIRED FOR EXTERIOR MOTION CONTROL LED FIXTURES. PROVIDE LOW VOLTAGE CONNECTIONS AS REQUIRED TO LIGHTSAVER LS-102 SWITCHING PHOTOSENSOR SO THAT WHEN STORE OPERATIONS ARE OFF THIS EXTERIOR SECURITY LIGHT IS ACTIVATED BY EXTERIOR MOTION ONLY. VERIFY WITH MANUFACTURER'S RECOMMENDATIONS FOR WIRING DIAGRAM. VERIFY LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
14. PROVIDE WALL MOUNTED JUNCTION BOX AT +142" FOR INSTALLATION. INSTALL LIGHTSAVER LS-102 SWITCHING PHOTOSENSOR FOR EXTERIOR MOTION CONTROL SECURITY FIXTURES TYP OF 2 LOCATIONS. CONTROL TIMES OF CONTROL SO THAT WHEN STORE OPERATIONS ARE OFF INTERIOR LIGHTS GO OFF AND THE EXTERIOR MOTION LIGHTS ARE ACTIVATED WITH ANY MOTION DETECTED AFTER STORE HOURS. VERIFY WITH MANUFACTURER'S RECOMMENDATIONS FOR WIRING DIAGRAM. VERIFY LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
15. ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK 'A' (SWITCH AS NOTED IN LOWER CASE). REFER TO SCHEDULE, SHEET 4/E-101, FOR MORE INFORMATION.
16. CONNECT TO VEGETABLE DISPLAY LIGHTING PROVIDED WITH WALK-IN COOLER.
17. PROVIDE SEALS AND EXPANSION COUPLINGS ON ALL CONDUITS ENTERING OR LEAVING AREA OF TEMPERATURE DIFFERENCE. REFER TO WIRING NOTES 6/E-400 FOR ADDITIONAL INFORMATION.

- CONTRACTOR SHALL PROVIDE ALL REQUIRED HARDWARES, BRACKETS, ETC. FOR A COMPLETE LIGHTING FIXTURE INSTALLATION.
- FIXTURES THAT ARE TO BE ROUTED VIA TIMECLOCKS ARE SHOWN ON DETAIL 11/E400. SEQUENCE OF OPERATION: TIMECLOCKS WIRED FIRST FOR DESIGNATED CONTROL. SWITCHES ARE SERIES WIRED WITH THE CONTACTORS. UTILIZE DIGITAL OVERRIDE TIMER SWITCH (DOTS) TO OVER-RIDE THE TIMECLOCKS FOR CLEANING AND AFTER HOURS AS NEEDED. SEE DETAIL 11/E400
- ALL LIGHTING FIXTURES SHALL BE SUPPORTED PER N.E.C. 410-16(C). SEE DETAIL, 4/E400.
- CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES INCLUDING OWNER-FURNISHED FIXTURES.
- ALL FIXTURE BALLASTS SHALL BE U.L. LISTED.
- E.C. SHALL INSTALL OWNER SUPPLIED LED STRIP LIGHTING & CUT TO PROPER LENGTH. COORDINATE WITH OWNER FOR EXACT LENGTHS AND FINAL LOCATIONS.
- WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2017 NEC, ALL MULTI-WIRE BRANCH CIRCUITS TO HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2017 NEC 210.4(B).
- ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
- 'N.L.' DESIGNATION INDICATES NIGHT LIGHT ON UNSWITCHED CIRCUIT.

LIGHTING GENERAL NOTES 2
NOT TO SCALE E-101

LIGHTING KEYED NOTES 3
NOT TO SCALE E-101

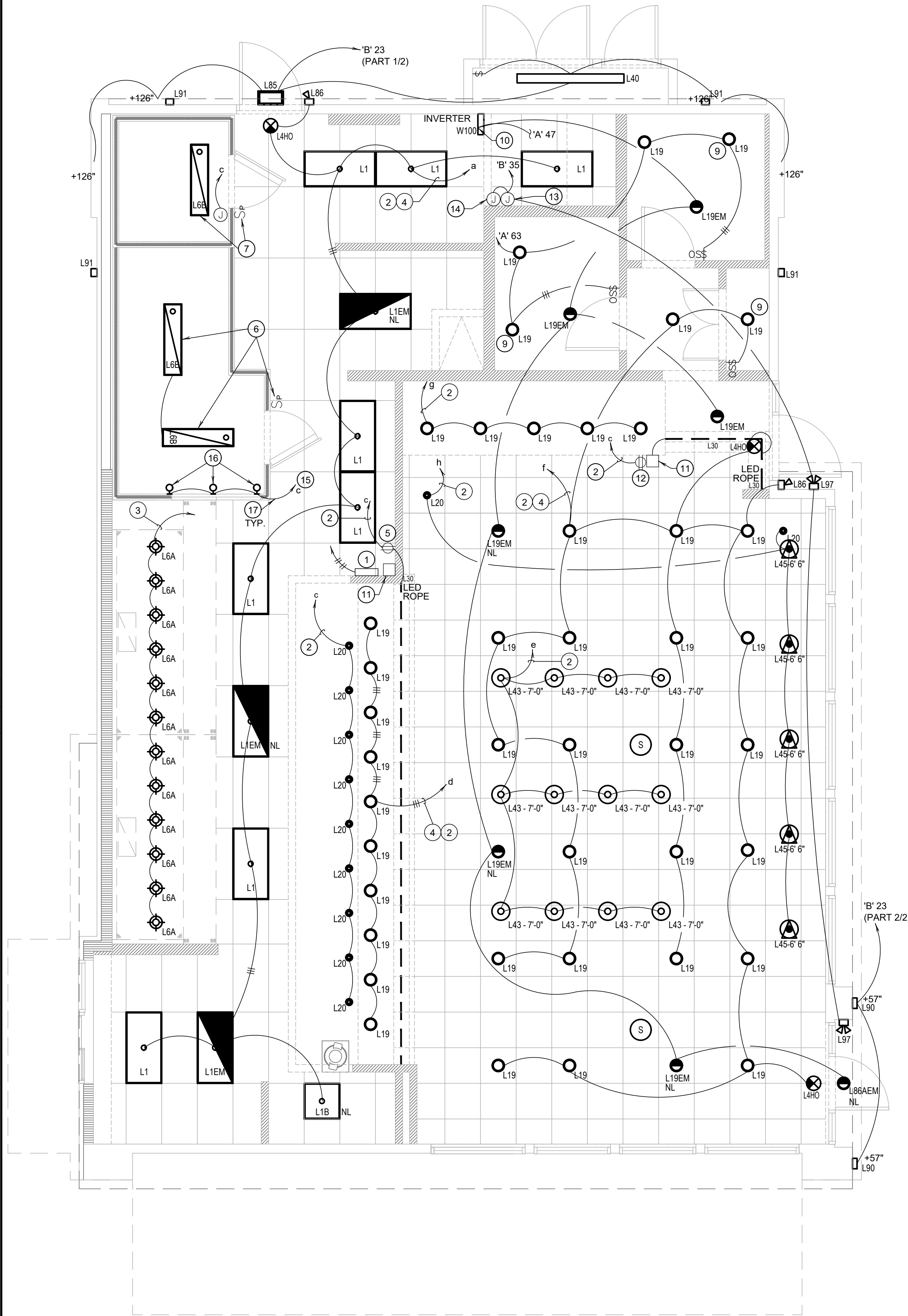
NOTE:
FIXTURES TO BE ROUTED VIA TIME TIMECLOCKS ARE SHOWN ON DETAIL 11/E400.

NOTE:
CONTRACTOR TO INSTALL (2) 5 GANG SWITCH BOXES AS SHOWN BELOW. DO NOT INSTALL SEPARATE/INDIVIDUAL BOXES FOR EACH SWITCH

(a)	(b)	(c)	(d)	(e)
\$	\$	\$	\$	\$
BACK OF HOUSE LTG & EX. FAN & RECIRC PUMP	SHOW WINDOW RECEPTS	WALK-IN, MENU LED ACCENTS	SERVING LINE SOFFIT	DINING PENDANTS
(f)	(g)	(h)	(i)	60.00
\$	\$	\$	\$	
INTERIOR DINING	BEV. COUNTER	DECORATIVE LIGHTS	SPARE	INTERIOR LIGHTING SHUT DOWN OVERRIDE

SWITCHBANK SCHEDULE 'A'				
TAG	SWITCH TYPE	AREA SERVED / SWITCH LABEL	CIRCUIT	LOAD
a	TOGGLE SWITCH	BACK-OF-HOUSE / RR FANS	'A' 45	530 VA
b	TOGGLE SWITCH	SHOW WINDOW RECEP	'A' 49	720 VA
c	TOGGLE SWITCH	WALK-INS, MENU, LED ACCENTS	'A' 1	275 VA
d	TOGGLE SWITCH	SERVING LINE SOFFIT	'A' 45	140 VA
e	TOGGLE SWITCH	DINING PENDANTS	'A' 47	24 VA
f	TOGGLE SWITCH	INTERIOR DINING	'A' 47	118 VA
g	TOGGLE SWITCH	BEVERAGE COUNTER	'A' 47	16 VA
h	TOGGLE SWITCH	DECORATIVE LIGHTS	'A' 47	219 VA
i	SPARE			

INTERIOR / EXTERIOR LTG CONTACTORS SCHEDULE 4
NOT TO SCALE E-101





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1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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2600 Maitland Center Pkwy, Maitland, FL 32751
P (407) 661-9100
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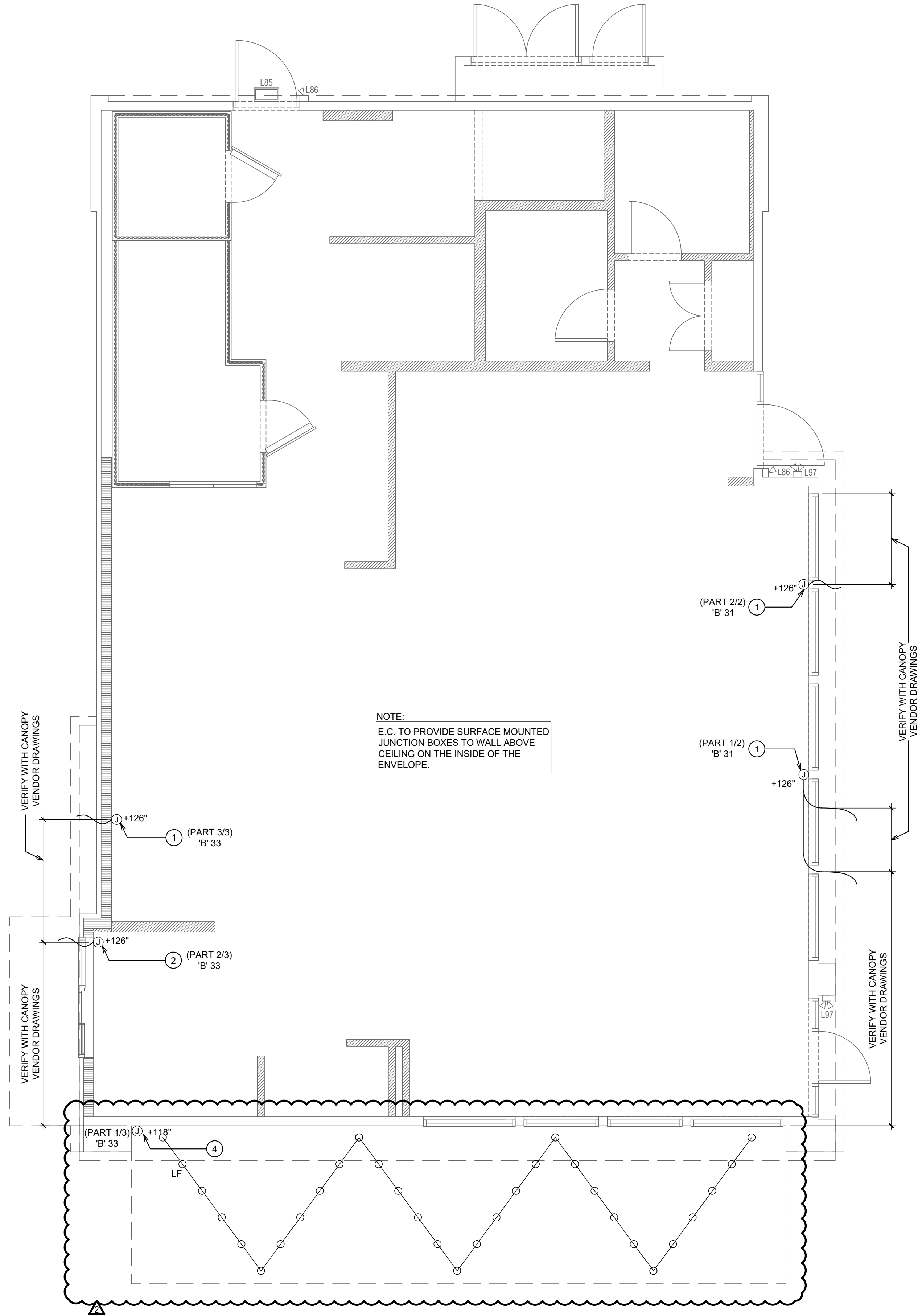
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E-101.1

CANOPY LIGHTING PLAN

TRUE WARM & WELCOME 2300 R4





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1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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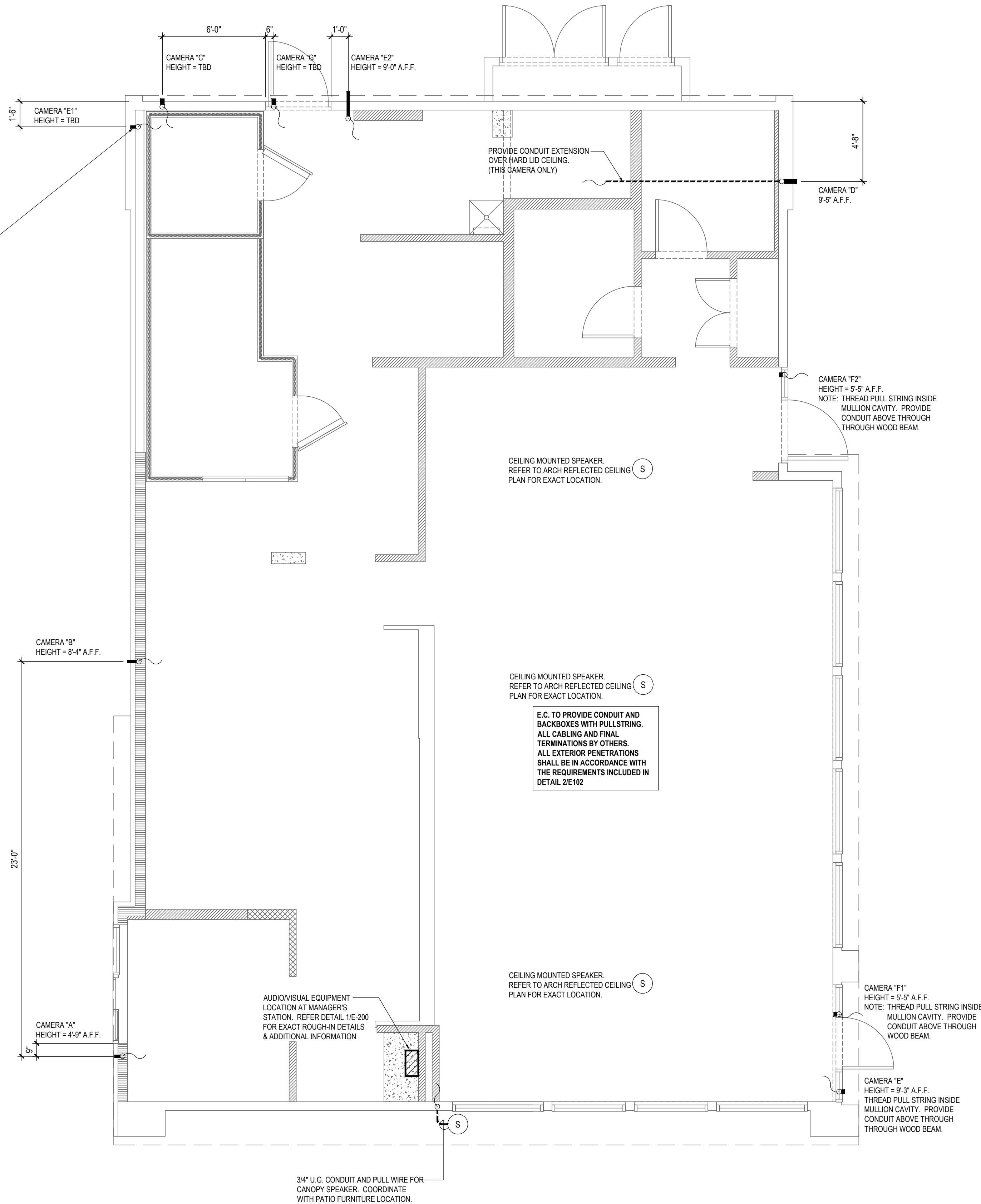
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E-102

SECURITY CAMERA PLAN

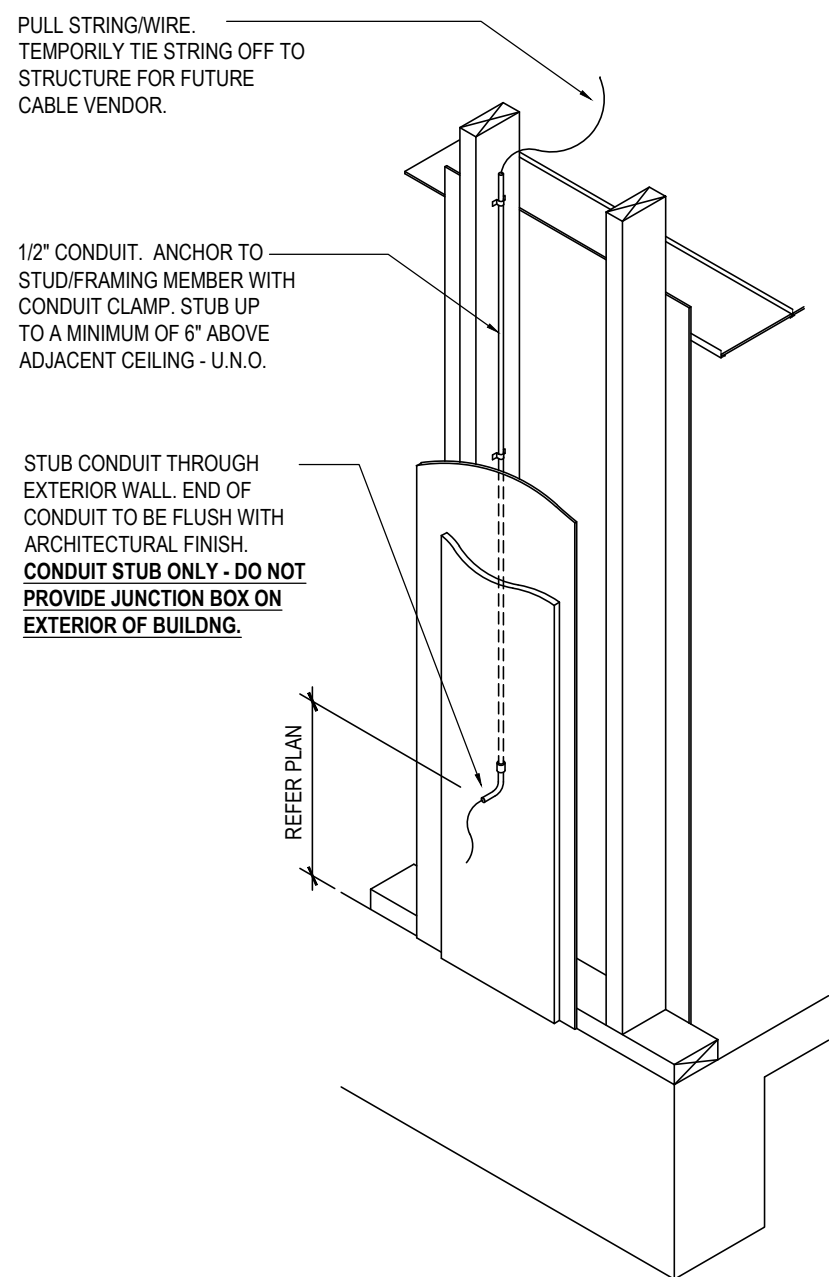
TRUE WARM & WELCOME 2300 R4



NOTE:
G.C./ELECTRICAL SUB TO COORDINATE WITH PANDA RESTAURANT PROJECT MANAGER ON ANY CAMERA LOCATIONS TO BE ADDED AND/OR OMITTED.

ACTUAL QUANTITY OF CAMERAS TO BE VERIFIED BY G.C./ELECTRICAL SUB WITH THE FOLLOWING CAMERA VENDOR CONTACT.

JOHN STRAIN
INTERFACE SECURITY SYSTEMS
PHONE: 314-708-9878
EMAIL: john.strain@interfacesys.com



CONDUIT ROUGH-IN DETAIL 2
NOT TO SCALE E-102

SECURITY CAMERA PLAN 1
Scale= 1/4" = 1'-0" E-102



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Rosemead, California
91770
Telephone: 626.799.9898
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E-104

ROOF POWER PLAN

TRUE WARM & WELCOME 2300 R4

- ALL ROOF MOUNTED EQUIPMENT SHALL BE IN NEMA-3R ENCLOSURES.
- ALL CONDUIT RUNS SHOWN ON THE ROOF SHALL BE RUN BELOW IN THE CEILING SPACE WHERE AMBIENT TEMPERATURE WILL BE BELOW 30° C. FINAL CONNECTIONS TO THE ROOF EQUIPMENT IS LIMITED TO 5'-0" OF DIRECT SOLAR EXPOSURE.
- VERIFY ALL FUSE SIZES AND TYPES WITH THE MECHANICAL EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- REVIEW THE MECHANICAL PLANS FOR HVAC CONTROL REQUIREMENTS AND SCOPE OF WORK PRIOR TO BIDDING AND INCLUDE ALL COSTS IN BID.
- VERIFY CONNECTION POINTS OF ALL HVAC EQUIPMENT PRIOR TO INSTALLATION. PROVIDE CONTROL VOLTAGE CONNECTION TO DUCT MTD. SMOKE DETECTOR AS REQUIRED BY MECHANICAL DRAWING M-100 AND INTERLOCK WITH FIREALARM.
- SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND THERMOSTATS. PROVIDE RACEWAY SYSTEM FOR ALL CONTROL WIRING AS REQUIRED BY MECHANICAL DRAWING M-100.
- E.C. COORDINATE ELECTRICAL, MECHANICAL, FIRE ALARM (IF REQUIRED) FOR INTERLOCK SEQUENCE FOR FIRE SUPPRESSION.
- RESTROOM EXHAUST FAN TO BE POWERED FROM BACK OF HOUSE LIGHTING CIRCUIT. SEE DETAIL 5/E400 FOR ADDITIONAL INFORMATION.

ROOF PLAN GENERAL NOTES 2

NOT TO SCALE E-104

- ROUTE HOMERUN THROUGH BACK OF HOUSE LIGHTING CIRCUIT. REFER TO LIGHTING PLAN, 4/E-101. FAN TO BE CONTROLLED BY SWITCH FOR BACK OF HOUSE LIGHTING.
- DUCT SMOKE DETECTOR, FURNISHED BY MECHANICAL/FACORY, WIRED BY ELECTRICAL / FIRE ALARM CONTRACTOR. FURNISH AND INSTALL ALL RACEWAY, WIRING, AND ADDITIONAL ACCESSORIES REQUIRED FOR CODE COMPLIANCE AND UNIT SHUTDOWN.
- CIRCUIT FEEDS FROM PANELBOARD - THROUGH HOOD CONTROL PANEL - UP TO ROOF, REFER TO DETAIL, SHEET 3/E-401 & KITCHEN HOOD SUBMITTAL DATA.
- REFER TO CONDENSING UNIT WIRING DIAGRAM, 7/E-400.
- STRUT RACK SUPPORT FOR EQUIPMENT DISCONNECT SWITCHES. REFER TO DETAIL, SHEET 2/E-401.
- PROVIDE AND INSTALL 2-1/2" DIA GALVANIZED RIGID METAL CONDUIT AND WEATHERHEAD +24" A.F.G. CONDUIT TO BE STRAPPED TO CLOSEST JOIST TO THE MANAGER'S STATION (FULL DEPTH).
- DO NOT INSTALL UNTIL BACK DRAFT DAMPER INSTALLATION IS COMPLETE. UTILIZE FACTORY KNOCKOUTS FOR ELECTRICAL RUN FOR THIS FAN. REFER TO SHEET M-402.
- MOUNT PHOTOCELL AS DETAILED ON EQUIPMENT DISCONNECT SWITCH SUPPORT DETAIL 2/E401 ON CONDENSER RACK.
- STUB ELECTRICAL FEED FOR EF-1 & EF-2, THROUGH ROOF ON HINGE SIDE OF EXHAUST FANS, IN LOCATION AS SHOWN ON POWER ROOF PLAN. REFER TO DETAIL 3/M-501 FOR ADDITIONAL DETAILS.
- ROUTE POWER FEEDS VIA FACTORY PROVIDED THRU-BASE CONNECTION AREA. COORDINATE WITH MECHANICAL.
- UNIT INCLUDES FACTORY MOLDED CASE DISCONNECT SWITCH (NO OCP). VERIFY WITH MECHANICAL SUBMITTAL DATA. PROVIDE DISCONNECT IF / AS REQUIRED.

ROOF PLAN KEYED NOTES 3

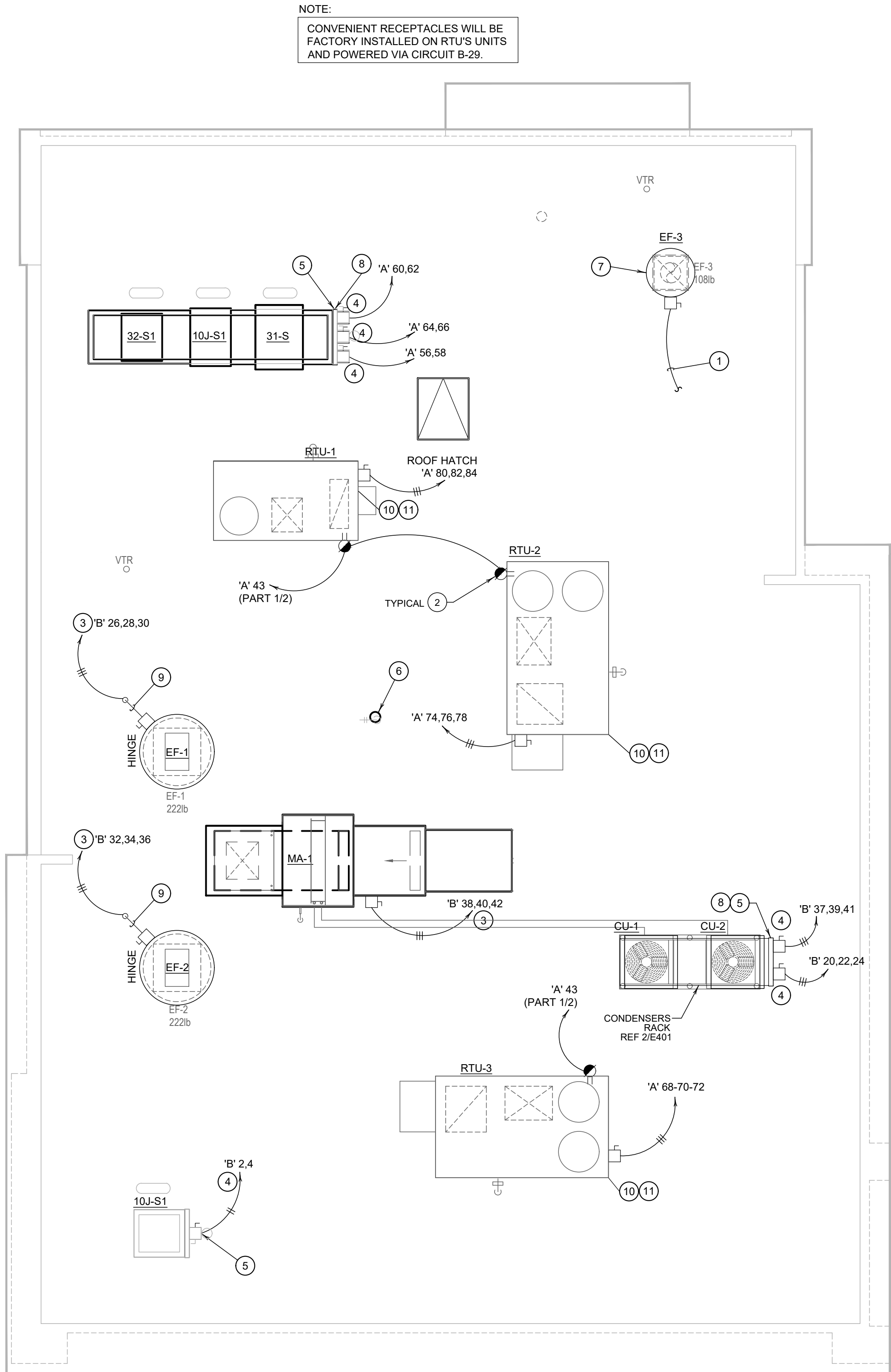
NOT TO SCALE E-104

ROOFTOP EQUIPMENT SCHEDULE									
TAG	DESCRIPTION	KW	H.P.	FLA	VOLT/Ø	WIRE, CONDUIT	CONN.	MOUNT HEIGHT	DISC. SW. WITH RK1 FUSES PER MFR'S REQ'S. AND/OR REMARKS
RTU1	A/C UNIT			49.0	208V.3Ø	3 #8, #10 GND., 3/4" C.	□	AT UNIT	60A. 3P. 3F. WP (1) (4)
RTU2	A/C UNIT			72.0	208V.3Ø	3 #4, #8 GND., 1-1/4" C.	□	AT UNIT	100A. 3P. 3F. WP (1) (4)
RTU3	A/C UNIT			72.0	208V.3Ø	3 #4, #8 GND., 1-1/4" C.	□	AT UNIT	100A. 3P. 3F. WP (1) (4)
CU-1	CONDENSING UNIT			21.4	208V.3Ø	3 #10, #10 GND., 1" C.	□	AT UNIT	30A. 3P. 3F. WP (1)
CU-2	CONDENSING UNIT			21.4	208V.3Ø	3 #10, #10 GND., 1" C.	□	AT UNIT	30A. 3P. 3F. WP (1)
MA-1	MAKE-UP AIR UNIT	5.0	15.2	208V.3Ø	3 #10, #10 GND., 3/4" C.	□	AT UNIT	(1) (4)	
EF-1	EXHAUST FAN	2.0	5.9	208V.3Ø	3 #12, #12 GND., 3/4" C.	□	AT UNIT	(1)	
EF-2	EXHAUST FAN	2.0	5.9	208V.3Ø	3 #12, #12 GND., 3/4" C.	□	AT UNIT	(1)	
EF-3	EXHAUST FAN	1/4	4.8	120V.1Ø	2 #12, #12 GND., 3/4" C.	□	AT UNIT	30A. 2P. 1F. WP (1) (4)	
31-S	W/I COOLER COND.			27.0	208V.1Ø	2 #10, #10 GND., 3/4" C.	☒	AT UNIT	(2) (3)
32-S1	W/I FREEZER COND.			32.0	208V.1Ø	2 #8, #8 GND., 3/4" C.	☒	AT UNIT	60A. 2P. 2F. WP (3)
10J-S1	ICE MACHINE COND.			11.8	208V.1Ø	2 #12, #12 GND., 3/4" C.	☒	AT UNIT	(2) (3)

- (1) DISCONNECT SWITCH PROVIDED WITH UNIT.
- (2) COMBINATION 30A. 2P. 2F. WP DISCONNECT SWITCH WITH RK5 FUSES PER MANUFACTURER RECOMMENDATION.
- (3) COMBINE CIRCUITRY IN 1" CONDUIT FROM J-BOX ON EQUIPMENT DISCONNECT SWITCH SUPPORT. REFER TO DETAIL THIS SHEET, 1 / E-104.
- (4) ELECTRICAL FEEDS ARE TO BE ROUTED FROM PLENUM SPACE, UP THROUGH EQUIPMENT CURB, INTO BOTTOM OF EQUIPMENT, THROUGH FACTORY INSTALLED WATER TIGHT CONNECTIONS.

HVAC EQUIPMENT SCHEDULE 4

NOT TO SCALE E-104



ROOF POWER PLAN 1

1/4" = 1'-0" E-104

- COORDINATE SERVICE ENTRANCE SECTION, TRANSFORMER, PRIMARY SERVICE, SECONDARY SERVICE, AND SWITCHING CABINET OR POWER POLE LOCATIONS WITH SERVING UTILITY COMPANY AND COMPLY AS REQUIRED.
- CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING AND PROVIDING REQUIRED WORK FOR SUPPLYING ELECTRICAL POWER AND TELEPHONE UTILITIES TO THE BUILDING.
- CONTRACTOR SHALL HAVE ALL EXISTING UNDERGROUND UTILITIES LOCATED PRIOR TO TRENCHING. ALL UNDERGROUND UTILITIES DAMAGED DURING TRENCHING SHALL BE REPAIRED TO THE SATISFACTION OF INVOLVED UTILITY AT CONTRACTOR'S EXPENSE.
- MINIMUM CONDUCTOR SIZE THIS SHEET TO BE #10 CU, 1" CONDUIT.

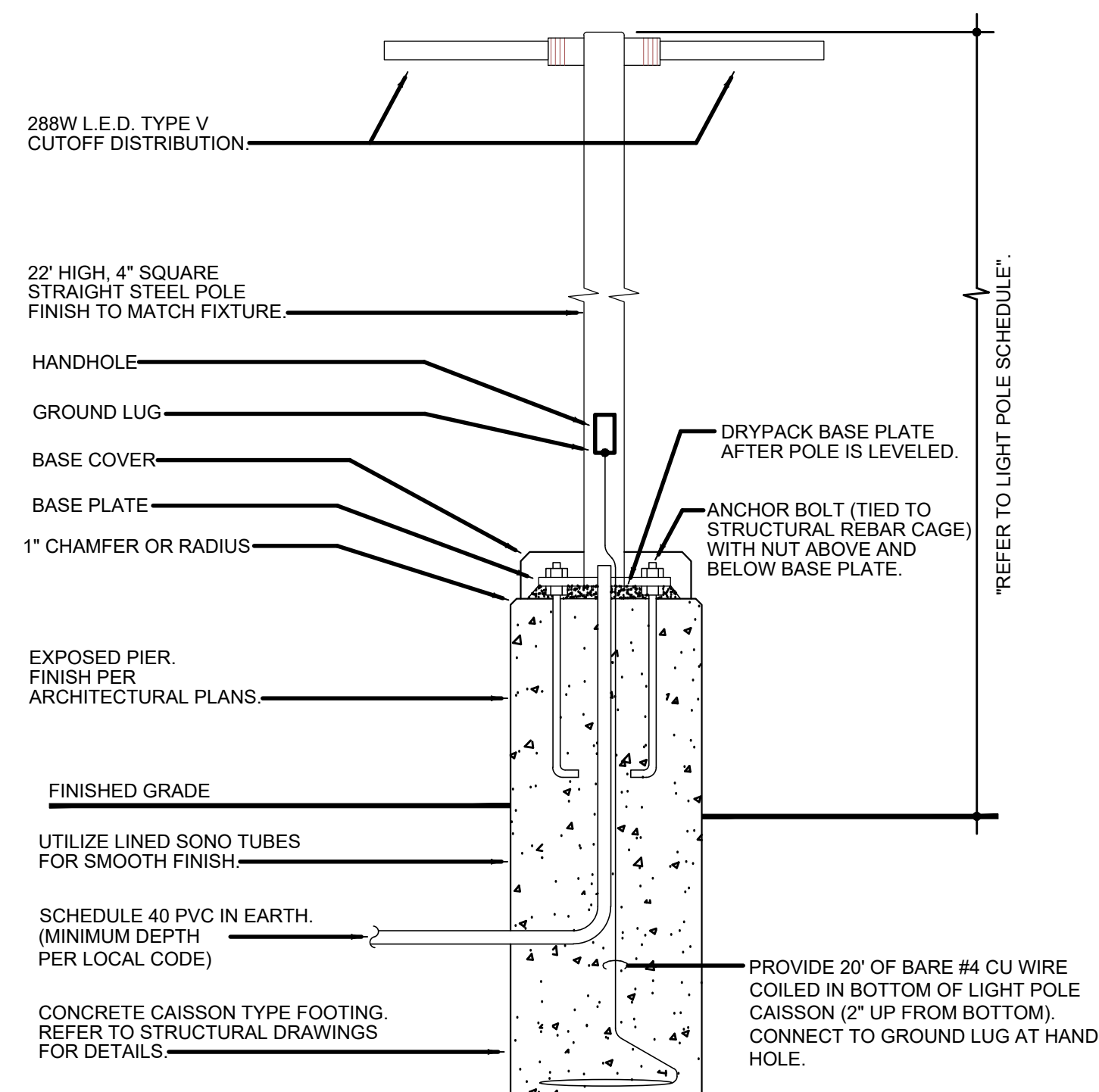
SITE PLAN GENERAL NOTES 2

2

1. FEED THROUGH LIGHTING CONTACTOR. REF: 11/E-400.
2. STUB UP LOCATION FOR (3) 3/4" CONDUITS & PULL STRINGS, TO ENTER BUILDING & UP TO 6" ABOVE CEILING. REFER TO SHEET 1/E-401.
3. STUB-UP LOCATION FOR MENU BOARD. SIGN DISCONNECT PROVIDED BY SIGN CONTRACTOR. COORDINATE PRECISE LOCATION WITH ARCHITECT / OWNER.
4. DRIVE-THRU SENSOR LOOP. COORDINATE LOCATION. REFER TO DETAIL 1 / E-401.
5. STUB-UP FOR DRIVE-THRU ORDER CONFIRMATION MONITOR. COORDINATE LOCATION WITH ARCHITECT / OWNER.
6. STUB UP LOCATION FOR PYLON SIGN OR MONUMENT SIGN. ELECTRICAL CONTRACTOR TO PROVIDE NON-FUSED DISCONNECT AT BASE OF SIGN. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. CONNECT TO EXTERIOR BUILDING SIGN TIMER CONTROL. REFERENCE 11/E-400
7. SEE POLE MOUNTING DETAIL, REFER TO 4/E/105.
8. CABLE PULL BOX: REFERENCE 1/E/100. INSTALL MINIMUM 3' FROM SIDEWALK. DO NOT INSTALL IN SIDEWALK CONCRETE.

SITE PLAN KEYED NOTES	3
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E-10



NOTE: THIS DETAIL IS FOR ELECTRICAL INSTALLATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.

POLE MOUNTING DETAILS	4
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E-10



SITE & EXTERIOR LIGHTING PLAN

E-10



PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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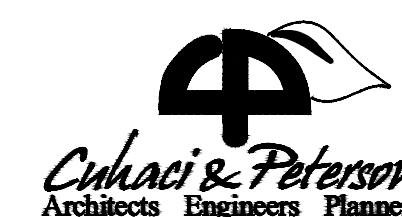
REVISIONS:

ISSUE DATE:

1	04.29.2021 ISSUE FOR PERMIT
2	06.04.2021 ISSUE FOR BID

DRAWN BY: JEL

PANDA PROJECT #: - S8-22-D8135
C&P PROJECT #: - 2200775



2600 Maitland Center Pkwy. Maitland, FL 3275
P (407) 661-9100
F (407) 661-9101
www.cj.com

06.04.2021

PANDA EXPRESS

TRUE WARM AND WELCOME 2300
SKYBROOKE BOULEVARD & STATE ROAD 54
LUTZ, FL 33558

E-105

SITE & EXTERIOR LIGHTING PLAN

1" = 16'-0"

0"	E-105
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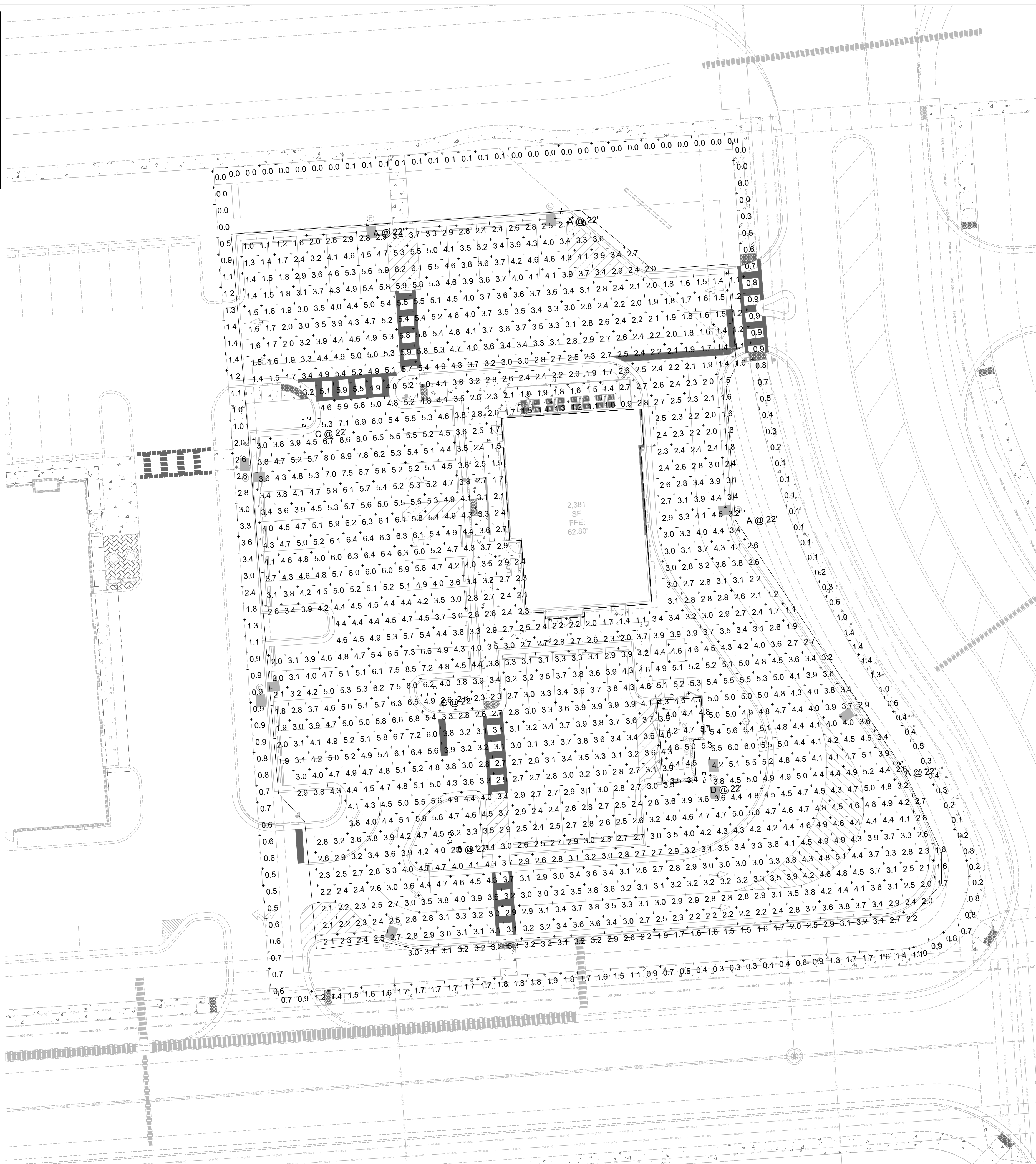
TRUE WARM & WELCOME 2300 R4

Schedule										
Symbol	Label	QTY	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	LLF	Wattage
	A	4	SLM-LED-18L-SIL-FT-40-70CRI-IL	CONTACT RYAN ZINSELMEIER-314-531-2600	LED	1	SLM-LED-18L-SIL-FT-40-70CRI-IL.ies	12046	1	148.5
	B	0	SLM-LED-18L-SIL-3-40-70CRI-IL	CONTACT RYAN ZINSELMEIER-314-531-2600	LED	1	SLM-LED-18L-SIL-3-40-70CRI-IL.ies	13767	1	148.5
	D	2	SLM-LED-18L-SIL-FT-40-70CRI-IL	CONTACT RYAN ZINSELMEIER-314-531-2600	LED	1	SLM-LED-18L-SIL-FT-40-70CRI-IL.ies	12046	1	297
	C	2	SLM-LED-18L-SIL-FT-40-70CRI-IL	CONTACT RYAN ZINSELMEIER-314-531-2600	LED	1	SLM-LED-18L-SIL-FT-40-70CRI-IL.ies	12046	1	297

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CALC SUMMARY- PAVED SURFACE	+	3.7 fc	8.9 fc	0.9 fc	9.9:1	4.1:1
CALC SUMMARY- PROPERTY LINE	+	0.8 fc	3.6 fc	0.0 fc	N/A	N/A
TRASH ENCLOSURE	+	4.5 fc	5.3 fc	3.4 fc	1.6:1	1.3:1

Note

1. MOUNTING HEIGHT OF 22' (20'POLE)
2. CALCULATIONS TAKEN AT GROUND LEVEL
3. CONTACT VILLA LIGHTING- RYAN ZINSELMEIER- RYAN.ZINSELMEIER@VILLALIGHTING.COM- 314-531-2600



SITE PHOTOMETRIC PLAN 1

Scale: 1" = 20'-0" E-106



PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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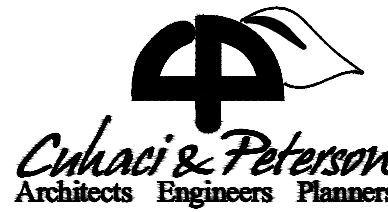
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2600 Maitland Center Pkwy, Maitland, FL 32751
P (407) 661-9100
F (407) 661-9101
www.cph.com
Florida Corporate Certificate #AA-000026

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TRUE WARM AND WELCOME 2300
SKYBROOKE BOULEVARD & STATE ROAD 54
LUTZ, FL 33558

E-106

HOT - MEDIUM
SITE PHOTOMETRIC PLAN

TRUE WARM & WELCOME 2300 R4



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1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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2600 Maitland Center Pkwy, Maitland, FL 32751
P (407) 661-9100
F (407) 661-9101
mcp@cpafl.com
Florida Certificate of Registration No. 0000263

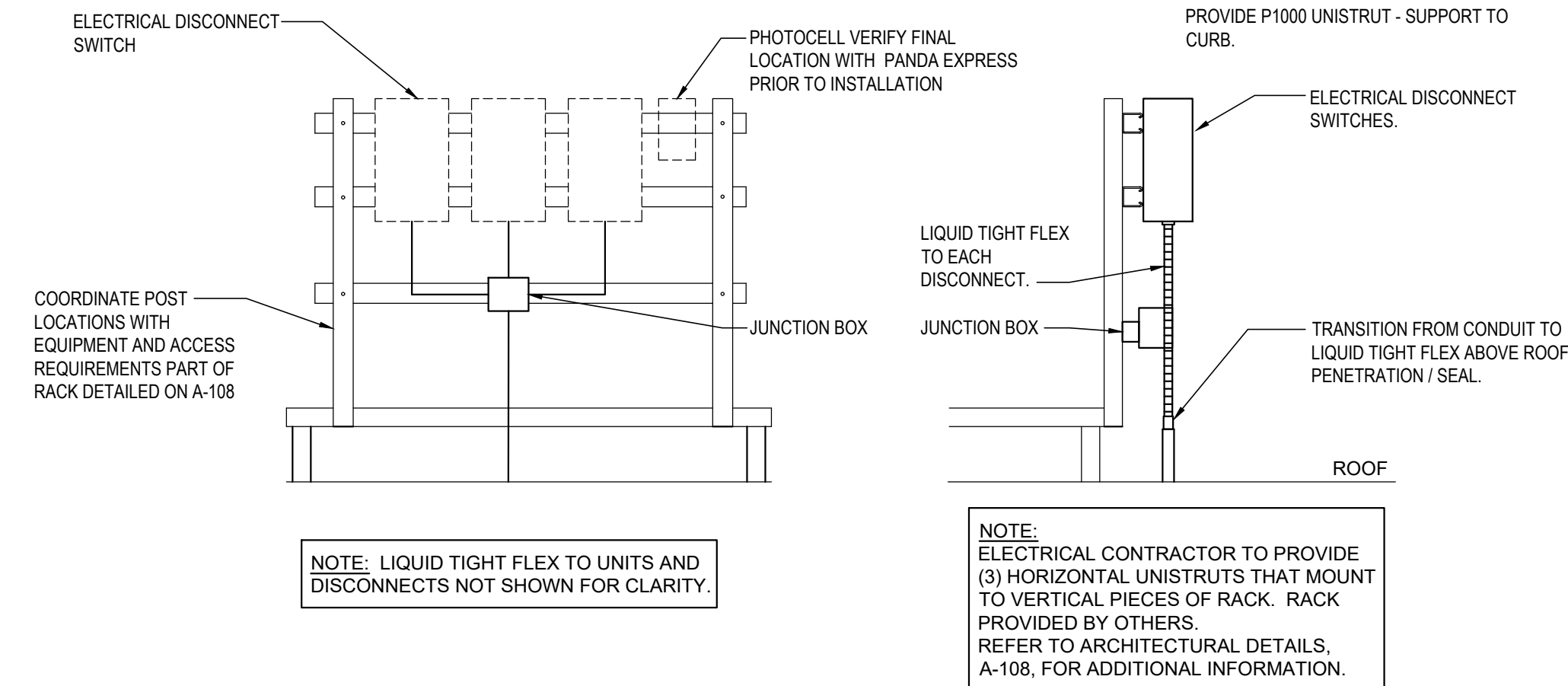
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LUTZ, FL 33558

E-401

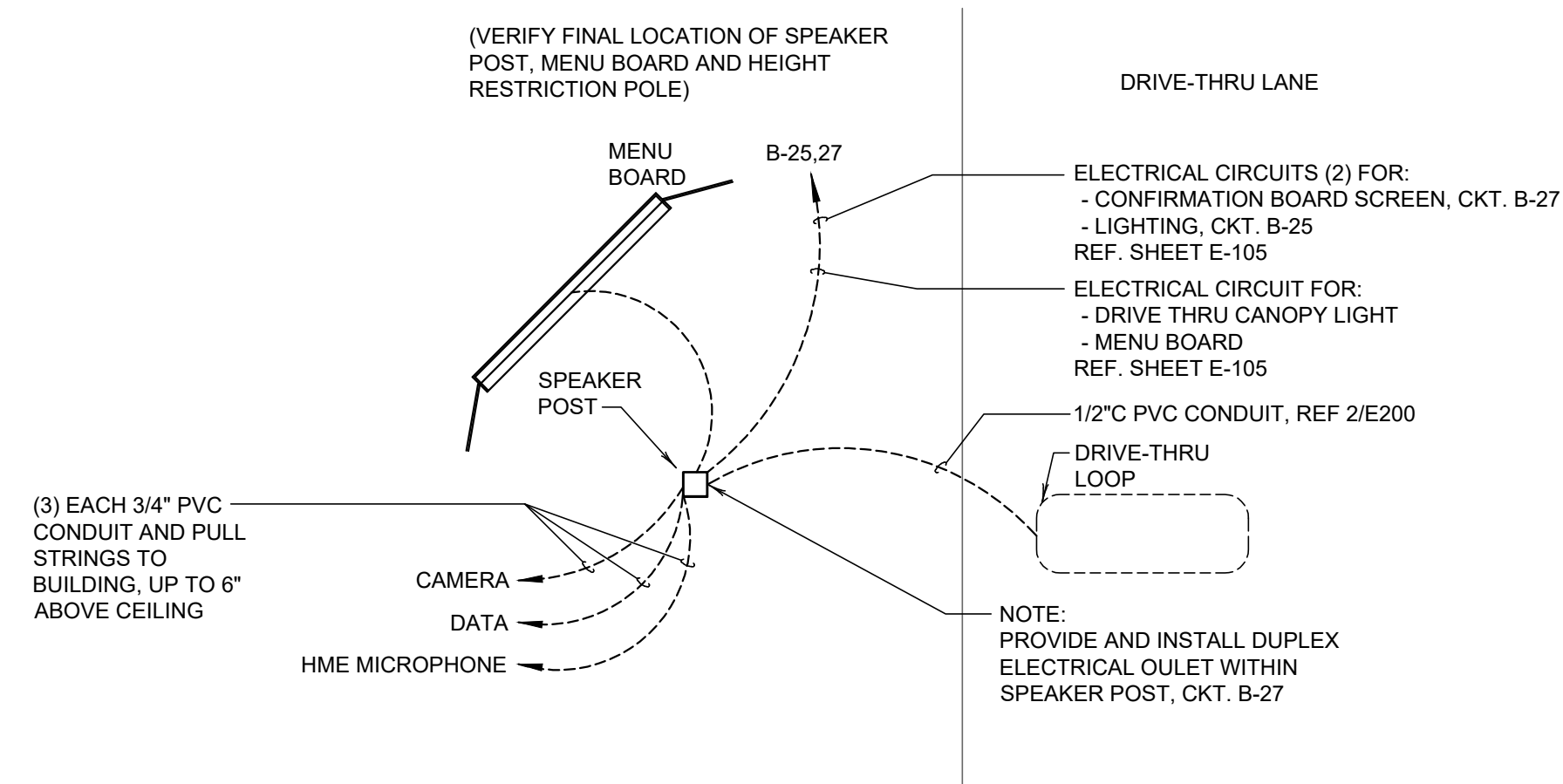
ELECTRICAL DETAILS, DIAGRAMS

TRUE WARM & WELCOME 2300 R4



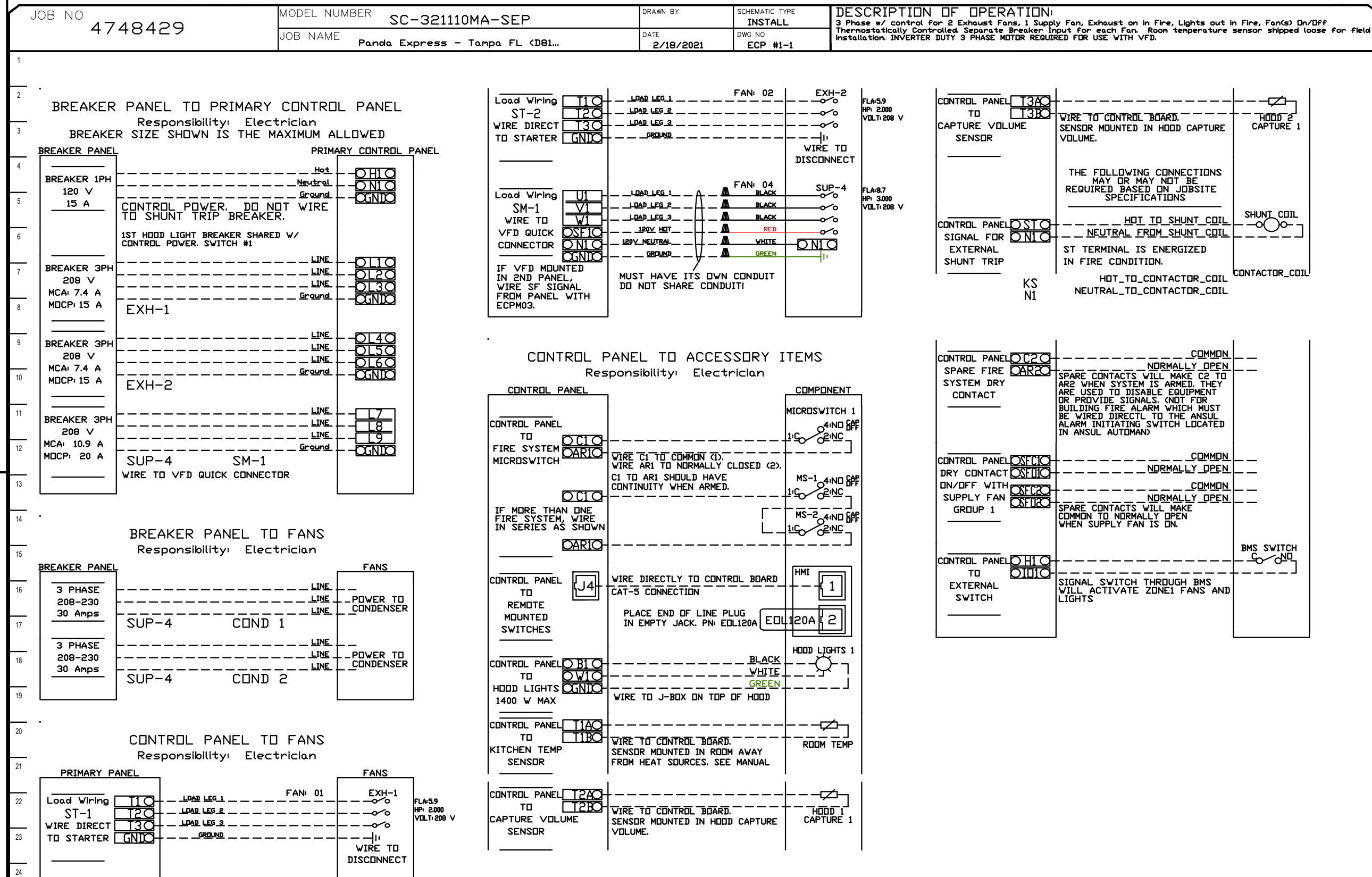
EQUIPMENT DISCONNECT SWITCH SUPPORT 2

NOT TO SCALE E-401



MENU BOARD & SENSOR LOOP 1

E-401



KITCHEN EXHAUST SYSTEM DIAGRAM 3

NOT TO SCALE E-401

PANELBOARD NOTES ()

- (1) KITCHEN EQUIPMENT SHOWN AT 65% IN PANEL TOTALS PER NEC (KITCHEN EQUIPMENT).
- (2) TERMINATE GROUND ON ISOLATED GROUND BUS.
- (3) ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR, CONTROLLED BY TIMECLOCK. REFER TO DETAILS, SHEET 11/E-400.
- (4) WIRE SIZE INCREASE DUE TO VOLTAGE DROP. SIZE EQUIPMENT GROUND CONDUCTOR PROPORTIONALLY PER NEC.
- (5) REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
- (6) GFCI BREAKER
- (7) INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE).

BUILDING ELECTRICAL SERVICE LOAD SUMMARY			
BUILDING OCCUPANCY TYPE:	A	SERVICE DESCRIPTION:	
BUILDING SQUARE FOOTAGE:	2,300	208Y/120V, 3PH, 4W	
LOAD SUMMARY CALCULATIONS ARE BASED ON NEC 2017			
SECTION 220.88 OPTIONAL METHOD FOR NEW RESTAURANTS.			
HVAC - SUMMER		106.50	KVA
HVAC - WINTER		0.00	KVA
LIGHTING (PER NEC-220)		4.60	KVA
RECEPTACLES		2.98	KVA
KITCHEN EQUIPMENT		46.99	KVA
MOTOR LOADS		14.28	KVA
LARGEST MOTOR LOAD		0.00	KVA
SUPPLEMENTAL ELECTRIC HEAT		0.50	KVA
MISCELLANEOUS EQUIPMENT		12.87	KVA
REFRIGERATION EQUIPMENT		9.98	KVA
DISPLAY CASE/SIGNAGE		1.20	KVA
EXTERIOR LIGHTING		3.42	KVA
CONNECTED LOAD		203.32	KVA
50% (AMOUNT OVER 200) + 200			
TOTAL DEMAND LOAD		201.66	KVA
TOTAL DEMAND AMPACITY		559.75	AMPS
SERVICE AMPACITY		600	AMPS
SPARE CAPACITY		40.25	AMPS

PNL B				PANELBOARD															
SERVES: WHOLE BUILDING								208Y/120V, 3PH, 4W				225A, MLO							
LOCATION: ELEC CABINET												REF 1-LINE AIC							
MOUNTING: RECESSED												EQUIPMENT GROUND BUS							
	DESCRIPTION			WIRE	BRKR	PL	KVA A		KVA B		KVA C		PL	BRKR	WIRE	DESCRIPTION			
1	LOGO 'S2/I.D. SIGN 'S1' (3)			12	20	1	1.20	1.23					2	20	10	ICE MACHINE COND. '10J-ST (4)			2
3	EXTERIOR LIGHTING - POLE (3,4)			10	20	1			0.45	1.23									4
5	EXTERIOR LIGHTING - POLE (3,4)			12	20	1					0.59	0.96	1	20	12	21G MJ345 FRYER (1,6)			6
7	TICKET PRINTER			12	20	1	0.22						1			SPACE			8
9	BEV. DISPENSER 4AB (1,4)			10	20	1			1.12				1			SPACE			10
11	SECURITY/POS MONITORS			12	20	1					0.18		1			SPACE			12
13	HYPERACTIVE TIMER SYS.			12	20	1	0.18						1			SPACE			14
15	DINING TV'S			12	20	1			0.26				1			SPACE			16
17	EXTERIOR LIGHTING - POLE (3,4)			10	20	1					0.74		1			SPACE			18
19	COKE CARBONATOR			12	20	1	0.20	2.57											20
21	MONUMENT SIGN (3,4)			10	20	1			0.50	2.57			3	30	10	CU-2			22
23	BUILDING LTSIEM (3)			12	20	1					0.61	2.57							24
25	MENUBOARD (3,4)			12	20	1	1.50	0.71											26
27	DR THRU ORDER SCREEN (4)			12	20	1			1.00	0.71			3	15	12	EF-1			28
29	RTUS CONVENIENT RECPTS			12	20	1					0.54	0.71							30
31	CANOPY LIGHTS (3)			12	20	1	0.16	0.71											32
33	CANOPY LIGHTS (3)			12	20	1			0.16	0.71			3	15	12	EF-2			34
35	EXTERIOR MOTION SECURITY LED			12	20	1					0.71	0.71							36
37																			38
39	CU-1			10	30	3	2.57	2.40		2.57	2.40		3	30	10	MA-1			40
41											2.57	2.40							42
TOTAL							13.65		13.68		13.30		KVA						
							114		114		111		AMPS						
TOTAL LOAD							40.62		KVA		113		AMPS						
FEEDER LOAD							41.78		KVA		116		AMPS						

PNL A

PANELBOARD

208Y/120V, 3PH, 4W
600A, MLO
REF 1-LINE AIC
EQUIPMENT GROUND BUS
ISOLATED GROUND BUS

SERVES: WHOLE BUILDING
LOCATION: ELEC. CABINET
MOUNTING: RECESSED

DESCRIPTION	WIRE	BRKR	PL	KVA A	KVA B	KVA C	PL	BRKR	WIRE	DESCRIPTION		
1 WIC DISPLAY LTS/MENUBOARDED	12	20	1	0.33	1.00		1	20	12	FAX '87; MGR 'B4C; COMP '49A'	2	
3 HOOD CONTRL PNL 'M4'	12	20	1		0.50	0.60		1	20	12	MUSIC, VCR, MONITOR	4
5 SERVICE POS 94, PTR '86A' (2,6)	12	20	1			1.10	0.50	1	20	12	COMPUTER RECPT '83A' (2)	6
7 D.THRU POS '94/PTRS '86A' (2,6)	12	20	1	1.10	0.13			1	20	12	10J ICE MACHINE (6)	8
9 95-4-S3; FLY LT C02 (1)	12	20	1		0.82			1	20	12	SPARE	10
11 RICE WARMER '54' (1,4)	12	20	1			0.11		1	20	12	SPARE	12
13 REF. PREP TABLE '34D' (1)	12	20	1	1.44	1.18			1	20	12	REAR DOOR - FLY FAN 'M8A' (7)	14
15 REF. PREP TABLE '34D' (1)	12	20	1		1.08			1	20	12	SPARE	16
17 UNDER CTR FRZR '30L' (1,4)	12	20	1			1.08	0.20	1	20	12	FIRE SUP SHUTDOWN	18
19 BEV. DISP. '4AB' (1)	12	20	1	1.12	1.30			1	20	10	INDUCT WELL 3F, 3G (1,4,6)	20
21 SERVING COUNTER	12	20	1		0.18	1.30		1	20	10	INDUCT WELL 3F, 3G (1,4,6)	22
23 ICE TEA BREWER '9D'	12	20	1			1.78	1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	24
25 FOOD PROCESSOR '53'	12	20	1	1.20	1.30			1	20	10	INDUCT WELL 3F, 3G (1,4,6)	26
27 SPARE	12	20	1			1.30		1	20	10	INDUCT WELL 3F, 3G (1,4,6)	28
29 WALK-IN COOLER COIL '31M' (1)	12	20	1			0.24	1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	30
31 RICE HOLD CABINET '24H' (1,4,6)	10	20	1	1.78	1.30			1	20	12	INDUCT WELL 3F, 3G (1,4,6)	32
33 FUTURE CONTROLS (1,6)	12	20	1		0.20	0.84		1	20	12	RAD TOP HEATER '1S2B1' (1)	34
35 TIMECLOCK	12	20	1			0.10	1.10	1	20	12	RAD TOP HEATER '1S2B2' (1)	36
37 '4B' BOOSTER OUTLET (6)	12	20	1	0.86	1.10			1	20	12	RAD TOP HEATER '1S2B2' (1)	38
39 HEAT WRAP '32-S7' (4)	12	20	1		0.50	0.84		1	20	12	RAD TOP HEATER '1S2B2' (1)	40
41 FLY LIGHT	12	20	1			0.18	0.84	1	20	12	RAD TOP HEATER '1S2B1' (1)	42
43 DUCT DETECTORS	12	20	1	0.20				1	20		SPARE	44
45 LTG-FOOD PREP/EF-3 (4)	10	20	1		0.85			1	20		SPARE	46
47 LTG - DINING AREA	12	20	1			0.53	1.40	2	15	12	MICROWAVE - 55A (1)	48
49 SHOW WINDOW RECPTS	12	20	1	0.54	1.40							50
51 GENERAL RECPTS	12	20	1		0.72	0.18		1	20	12	FUTURE EQUIPMENT	52
53 EXTERIOR RECPTS	12	20	1			0.36		1	20		SPARE	54
55 SPARE	12	20	1		1.23			2	20	12	ICE MACHINE COND. '10J-S' (1)	56
57 10J ICE MACHINE (6)	12	20	1		0.13	1.23						58
59 GAS WATER HEATER - P3, GFCI (6)	12	20	1			0.96	3.33	2	40	8	WALK IN FRZR COND. '32-S1' (1,7)	60
61 ICE TEA BREWER '9D' (1,4)	10	20	1	1.78	3.33			2	30	10	WALK IN COOL COND '31-S' (1)	62
63 LIGHTING - RESTROOMS	12	20	1		0.07	2.81						64
65 SPARE	12	20	1			2.81						66
67 DT WINDOW 'M9A' AIR CURTAIN	10	20	1	0.50	8.64							68
69 INDUC DR WELL 3F, 3G (1,4,6)	10	20	1		1.30	8.64		3	80	3	RTU-3 (LENNOX)	70
71 INDUC DR WELL 3F, 3G (1,4,6)	10	20	1			1.30	8.64					72
73 ELECTRIC GRILL - '23E' (1,6)	6	50	2	3.00	8.64			3	80	3	RTU-2 (LENNOX)	74
75					3.00	8.64						76
77 SPACE			1				8.64					78
79 (SHUNT)			1		5.88			3	50	4	RTU-1 (LENNOX)	80
81 INDUC DR WELL 3F, 3G (1,4,6)	10	20	1		1.30	5.88						82
83 INDUC DR WELL 3F, 3G (1,4,6)	10	20	1			1.30	5.88					84
TOTAL				50.28	42.91	44.98	KVA					
TOTAL LOAD				419	358	375	AMPS					
FEEDER LOAD				136.16	KVA	383	AMPS					
PER NEC ARTICLE 220				123.58	KVA	343	AMPS					

SES PANELBOARD											
SERVES: WHOLE BUILDING LOCATION: OUTSIDE (IN NEMA 3R ENCLOSURE) MOUNTING: SURFACE											
208Y/120V, 3PH, 4W 800A MCB REF 1-LINE AIC EQUIPMENT GROUND BUS ISOLATED GROUND BUS											
DESCRIPTION	WIRE	BRKR	PL	KVA A	KVA B	KVA C	PL	BRKR	WIRE	DESCRIPTION	
1 PNLBD A (5)		600	3	50.28			3			SPACE	2
3					42.91						4
5						44.98					6
7 PNLBD B (5)		200	3	13.65			3			SPACE	8
9					13.68						10
11						13.30					12
13 SPACE											14
15			3				3			SPACE	16
17											18
TOTAL				63.93	56.58	58.27	KVA				
TOTAL LOAD				533	472	486	AMPS				
FEEDER LOAD				178.78	KVA	496	AMPS				
PER NEC ARTICLE 220				168.56	KVA	468	AMPS				

PANEL SCHEDULES 1
NOT TO SCALE E-601

ELECTRICAL SERVICE ENTRANCE COORDINATION							
NEW SERVICE REQUIRED: 600A, 120/208V, 3 PHASE, 4 WIRE				UTILITY COMPANY: DUKE ENERGY			
SERVICE TO BUILDING ROUTED: TBD				NAME OF CONTACT: MR. RICH MARSILGIO			
AVAILABLE FAULT CURRENT: TBD				PHONE: (727)-281-1686			
METERING LOCATION: EXTERIOR BUILDING				EMAIL: rich.marsiglio@duke-energy.com			
ITEMS	CONTRACTOR		UTILITY COMPANY				
	FURNISHED BY	INSTALLED BY	FURNISHED BY	INSTALLED BY			
PRIMARY CONDUCTORS			X		X		
PRIMARY TERMINATIONS			X		X		
PRIMARY CONDUIT(S)	X	X					
PRIMARY TRENCH/BACKFILL	X	X					
TRANSFORMER --(CONTRACTOR TO PROVIDE PAD PER/UTILITY REQ'S.)			X		X		
SECONDARY CONDUCTORS (FROM XFMR TO UTILITY METER)	X	X					
SECONDARY TERMINATIONS @ TRANSFORMER (GC PROVIDE LUGS)			X		X		
SECONDARY TERMINATIONS @ SERVICE ENTRANCE	X	X					
SECONDARY CONDUIT	X	X					
SECONDARY TRENCH/BACKFILL	X	X					
METERING CT'S -- TO BE DETERMINED BY UTILITY			X		X		
METER HOUSING -- PROVIDED BY UTILITY TO CONTRACTOR AT NO CHARGE	X	X					
CONTRACTOR NOTE:							
1. CONTRACTOR TO FIELD VERIFY AND COORDINATE THEIR RESPONSIBILITIES FOR ELECTRICAL SERVICE ENTRANCE WITH ELECTRICAL SERVICE PROVIDER; AND PROVIDE BID WITH ALL ASSOCIATED COSTS WITH NO ADDITIONAL COST TO OWNER.							