

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.

ALL ELECTRICAL CONTRACTORS, INCLUDING LOW VOLTAGE CONTRACTORS, MUST BE LISTED ON THE PERMIT/ RECORD, WHETHER FURNISHED BY THE GENERAL CONTRACTOR, BUSINESS OWNER OR OTHERS.





MC CABLE SHALL NOT BE USED. PREWIRED MC CABLE WHIPS FROM LIGHTING FIXTURES ARE ACCEPTABLE WHEN SUPPLIED WITH THE FIXTURE AND NO LONGER THAN 72".

ELECTRICIAN TO PROVIDE STAINLESS STEEL COVER PLATES FOR ALL LOW VOLTAGE OUTLETS.

IF PROVIDED UNDER SLAB ALL UNDERGROUND CONDUIT SHALL BE 12" BELOW FINISHED GRADE.

ELECTRICAL SYMBOLS LIST

NOTE: ALL DIMENSIONS GIVEN ARE TO DEVICE CENTERLINES. CONTRACTOR TO COORDINATE ALL INSTALLATIONS.

POWER DISTRIBUTION		RECEPTACLES & COMMUNICATIONS OUTLETS	
	SINGLE-POLE SWITCH, MANUAL MOTOR STARTER		DUPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O.
	J-BOX (WITH FLEX CONNECTION TO EQUIPMENT.)		SIMPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O.
	DISCONNECT SWITCH, WITH RATING AS SHOWN ON PLANS		ISOLATED GROUND SIMPLEX CONVENIENCE OUTLET (ORANGE), 20A, 125V., MTD @ +18" A.F.F.
	COMBINATION DISCONNECT SWITCH / MOTOR STARTER FURNISHED BY ELECTRICAL CONTRACTOR.		DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPASH OR APPROXIMATELY 44" A.F.F.
	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.		GFCI DUPLEX CONVENIENCE OUTLET, 20A, 125V, 5 mA TRIP, MTD @ 18" A.F.F. U.N.O.
	BRANCH CIRCUITRY HOMERUN TO PANEL AS NOTED ON PLANS		GFCI DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPASH OR APPROXIMATELY 44" A.F.F.
	INDICATES EXTERIOR UNDERGROUND WIRE RUNS.		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.
LIGHTING & LIGHTING CONTROLS			
	LIGHTING FIXTURE. SUBSCRIPT LETTER DENOTES FIXTURE TYPE AS DESCRIBED IN LIGHT FIXTURE SCHEDULE.		DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION.
	SINGLE-POLE SWITCH @ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 300V. 20A.		COMBINATION TEL/ DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION.
	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		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.
	OCCUPANCY SENSOR SWITCH WITH OFF CONTROL. AND ADJUSTABLE SETTINGS FOR TIME OFF DELAY, FOOTCANDLE LEVEL, AND MASKING. WATTS/OPPER OR EQUAL, MOUNT AT 44" A.F.F. U.N.O. USE PW-100 FOR OFFICES/CONF/ETC.		SPECIAL PURPOSE RECEPTACLE MTD @ 18" A.F.F. U.N.O., AMPERAGE AND PHASE AS NOTED ON PLANS, NEMA CONFIGURATION AS REQ'D.
	LEVITON PROVOLT 05C20-MDWT DIMMING DAYLIGHT SENSOR FOR SIDELIT 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		ISOLATED GROUND DUPLEX CONVENIENCE OUTLET (ORANGE), 20A., 125V., MTD @ +18" A.F.F.
	INTERIOR LIGHTING SHUT DOWN OVERRIDE. 20 AMP 60-MINUTE INDOOR IN-WALL SPRING WOUND COUNTDOWN TIMER, WHITE BY INTERMATIC.		DOUBLE DUPLEX CONVENIENCE OUTLETS UNDER COMMON COVER
			ISOLATED DOUBLE DUPLEX CONVENIENCE OUTLETS (ORANGE) 20A., 125V.
			SPEAKER
FIRE ALARM			
	MANUAL PULL STATION WITH KEYED RESET. MOUNT UNIT AT 44" A.F.F. ALIGN WITH LIGHT SWITCH IF APPLICABLE.		XENON STROBE UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER), MUST MEET OR EXCEED A.D.A. REQUIREMENTS.
	XENON STROBE UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER), MUST MEET OR EXCEED A.D.A. REQUIREMENTS.		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.
	FIRE ALARM CONTROL PANEL. MOUNT TOP OF UNIT AT 72" A.F.F.		FIRE ALARM ANNUNCIATION PANEL. MOUNT TOP OF UNIT AT 72" A.F.F.
	PHOTO ELECTRIC TYPE SMOKE DETECTOR.		PHOTO ELECTRIC TYPE SMOKE DETECTOR.
	DUCT MOUNTED PHOTO ELECTRIC SMOKE DETECTOR.		DUCT MOUNTED PHOTO ELECTRIC SMOKE DETECTOR.
	RATE OF RISE HEAT DETECTOR.		RATE OF RISE HEAT DETECTOR.
ABBREVIATIONS			
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
	CURRENT INTERRUPTER	W.P.	WEATHERPROOF
GND.	GROUND	XFMR	TRANSFORMER
H.P.	HORSE POWER	Ø	PHASE
k	1000		
E.C.	ELECTRICAL CONTRACTOR		
G.C.	GENERAL CONTRACTOR		

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 SMACNA AND PPIC.

ELECTRICAL SPECIFICATIONS

3

GENERAL NOTES

2

ELECTRICAL SYMBOLS

1

NOT TO SCALE

E-000

NOT TO SCALE

E-000

NOT TO SCALE

E-000



PANDA RESTAURANT GROUP INC.

1683 Walnut Grove Ave.
Rosemead, California
91770

Telephone: 626.799.9898
Facsimile: 626.372.8288

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BSP

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C&P PROJECT #:

- 2210869

CUHACI
PETERSON

2600 Maitland Center Parkway
Suite #200
Maitland, FL 32751
P (407) 661-9100
F (407) 661-9101
c-p.com

03.25.2022



JAISON MORAS,
VA #054677

PANDA EXPRESS

TRUE WARM & WELCOME 2500
2406 NORTH MAIN STREET
HIGH POINT, NC 27262

E-000

ELECTRICAL SYMBOLS
SPECIFICATIONS, NOTES

TRUE WARM & WELCOME 2500 R2



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

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CUHACI PETERSON
2600 Maitland Center Parkway
Suite #200
Maitland, FL 32751
P (407) 661-9100
F (407) 661-9101
c-p.com

01.25.2022
SEAL
041891
ENGINEER
JASON P. MORAS
JASON MORAS,
VA #054677

PANDA EXPRESS
TRUE WARM & WELCOME 2500
2406 NORTH MAIN STREET
HIGH POINT, NC 27262

E-100
POWER FLOOR PLAN

TRUE WARM & WELCOME 2500 R2

- ALL CIRCUITRY/CONDUIT FOR FRONT LINE EQUIPMENT TO BE ROUTED IN CASEWORK TO J-BOX IN WALL AND CONCEALED IN WALL.
- 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.
- 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.
- SEE 'MANAGER STATION ELEVATION' 1/E-200 FOR ADDITIONAL OUTLETS AND J-BOXES.
- ANSUL PULL STATION. REFER TO DETAIL, 2/E-400.
- REFER TO 'LTG AND DOOR HEATER' WIRING DIAGRAM, 10/E-400.
- REFER TO 'COOLER EVAPORATOR COIL' WIRING DIAGRAM, 8/E-400.
- 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.
- 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.
- 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.
- PROVIDE J-BOX/PULL STRING TO ABOVE CEILING FOR DOOR KEYPAD CONTROL WIRING.
- J-BOX CIRCUIT ABOVE CEILING TO POWER ELEC. DOOR HARDWARE.
- HOOD CONTROL PANEL/ANSUL SYSTEM CABINET. MOUNT CABINET DIRECTLY BELOW T-BAR CEILING.
- PROVIDE 2-GANG J-BOX @ 48" AFF FOR HOOD CONTROL SWITCHES. REFER TO M-402.
- 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.
- ROUTE CABLING / CIRCUITRY THROUGH 1" CONDUIT IN SLAB.
- UTILIZE SEAL TIGHT CONDUIT FOR ALL WIRING INCLUDED ALONG LOW WALL PANEL.
- ALL DEVICES UNDER HOOD TO BE PROVIDED AND INSTALLED WITH GROUND FAULT CIRCUIT BREAKER AND WATERPROOFING BOX (RED DOT #CKSUV). 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.
- SIMPLEX RECEPTACLE TO BE CONNECTED TO BACK-OF-HOUSE LIGHTING CIRCUITRY/CONTROL. CONTRACTOR TO PROVIDE DIGITAL FROM CIRCULATION PUMP.
- PROVIDE WEATHERPROOF RECEPTACLE FOR HEAT TYPE. COORDINATE FINAL LOCATION WITH REFRIGERATION INSTALLER.
- ELECTRIC GRIDDLE '23E': FEED WITH (2)#6, (1)#10 GROUND, 3" CONDUIT REFER TO 4/E-200.
- SEE DRIVE THRU ELEVATION 2/E-200 FOR CONDUIT SIZES AND CONFIGURATIONS.
- SEE TICKET PRINTER ELEVATIONS, 7/E-200.
- PROVIDE WATERPROOFING, COVER, IN-USE RED DOT (#CKSUV).
- SEE FOR DRIVE-THRU ELEVATIONS, 2/E-200.
- SEE DRINK STATION ELEVATIONS, 5/E-200.
- SEE 3/E-200 FOR SERVICE LINE ELEVATIONS.
- SEE DEVICE / RECEPTACLE SCHEDULE 3/E400.
- SEE DINING ROOM MONITOR ELEVATION, DETAIL 8/E-200.
- 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.
- REFER TO 9/E-200 FOR LOCATION/INSTALLATION OF C02 DEVICE.
- SEE SWITCH BANK ELEVATION , DETAIL 7/E-200.
- FLY LIGHT RECEPTACLE SHALL BE INSTALLED WITH A RECESSED CLOCK SIMPLEX OUTLET. TYP OF ALL LOCATIONS.
- SEE SECURITY KEY PAD ELEVATION 1/E200.
- CONNECT HEAT LAMPS TO COUNTER MOUNTED SWITCH PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT PROVIDER.
- PANDA EXPRESS TO PROVIDE C02 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.
- PROVIDE IN-GRADE QUARTZITE 8"X3" 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.
- 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.
- 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.
- PROVIDE A 1" CONDUIT FOR CIRCUIT 'A' 69 FOR POWER SUPPLY TO THE DRIVE THRU HOT WELL CABINET. PROVIDE A 3/4" CONDUIT FROM THE THIS LOCATION TO ABOVE CEILING NEAR THE MANAGER CABINET FOR LOW VOLTAGE WIRING.
- FIRE SUPPRESSION SHUTDOWN CONTACTOR LOCATED ABOVE CEILING , REFER TO 13/E-400.
- ELECTRICIAN TO WALL MOUNT A NEMA ELECTRICAL DISCONNECT BOX. ELECTRICIAN TO SUPPLY A WIRE WHIP FROM BOX TO MACHINE. FINAL CONNECTIONS BY HOBART SERVICE.
- PROVIDE J-BOX FOR DOOR RELEASE BUTTON.

- VERIFY QUANTITIES AND REQUIREMENTS OF ALL HVAC & KITCHEN EQUIPMENT PRIOR TO ROUGH IN.
- ALL TELEPHONE/DATA/TV CABLES AND WIRES, AND TERMINATIONS OF ALL REQUIRED CABLE AND JACKS WILL BE INSTALLED BY THIRD PARTY.
- POWER SUPPLY FOR COMPUTER AND CASH REGISTER (86A & 94) SHALL BE ON THE SAME CIRCUIT BREAKER, W/ISOLATED GROUND & ORANGE RECEPTACLE.
- ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
- 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).
- TRANSFORMERS SHALL BE MOUNTED ABOVE CEILING BELOW TRUSSES WITH LOW VOLTAGE WIRING FEEDING TO ALL EXTERIOR LIGHTS.
- ALL UNDERGROUND CONDUIT SHALL BE 12" BELOW F.F.

ALL 120 VOLT, 20 AMP RECEPTACLES LOCATED UNDER COUNTERS WITHIN SERVING AREA 101, DRIVE-THRU 102, AND KITCHEN 103 TO BE SERVED FROM GFCI-TYPE CIRCUIT BREAKERS PER NEC 210.8 (B) (2).

POWER PLAN KEYED NOTES 3
NOT TO SCALE E-100

POWER PLAN GENERAL NOTES 2
NOT TO SCALE E-100

POWER FLOOR PLAN 1
Scale: 1/4"=1'-0" E-100



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Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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CUHACI PETERSON
2600 Maitland Center Parkway
Suite #200
Maitland, FL 32751
P (407) 661-9100
F (407) 661-9101
c-p.com

01.25.2022

SEAL
041891
ENGINEER
JASON P. MORAS
JASON MORAS,
VA #054677

PANDA EXPRESS
TRUE WARM & WELCOME 2500
2406 NORTH MAIN STREET
HIGH POINT, NC 27262

E-101

LIGHTING FLOOR PLAN

TRUE WARM & WELCOME 2500 R2

- SWITCHBANK 'A'. REFER TO SCHEDULE 4/E-101.
- ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK 'A' (SWITCHES AS NOTED IN LOWER CASE). REFER TO SCHEDULE 4/E-101 FOR MORE INFORMATION.
- ROUTE THROUGH CONTACTS IN HOOD CONTROL PANEL 'M4' FOR CIRCUIT POWER. REFER TO 3/E-401.
- PROVIDE SEPARATE UNSWITCHED HOT CONDUCTOR (SAME CIRCUIT, NOT CONTROLLED BY SWITCH IN SWITCHBANK) TO LOCALLY SWITCHED FIXTURES AND EMERGENCY FIXTURE BATTERY TRIGGER LEADS.
- DUPLEX RECEPTACLE FOR LED ROPE. INSTALL ABOVE CEILING AT +128". REFER TO 8&9/A-402 FOR MORE INFORMATION.
- 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.
- 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.
- NOT USED.
- FIXTURES IN THIS ROOM SHALL BE LOCALLY SWITCHED.
- LIGHTING INVERTER FOR EMERGENCY LIGHTING TO BE MOUNTED TO BULKHEAD. RE: 9/E200.
- LED TRANSFORMER FOR LED ROPE LIGHTING LOCATION, MOUNT ABOVE CEILING.
- NOT USED.
- 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.
- 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.
- ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK 'A' (SWITCH AS NOTED IN LOWER CASE). REFER TO SCHEDULE, SHEET 4/E-101, FOR MORE INFORMATION.
- CONNECT TO VEGETABLE DISPLAY LIGHTING PROVIDED WITH WALK-IN COOLER.
- 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 2008 NEC OR LATER, ALL MULTI-WIRE BRANCH CIRCUITS TO HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2008 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	#	LIGHTING KEYED NOTES	3
NOT TO SCALE	E-101		NOT TO SCALE	E-101

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

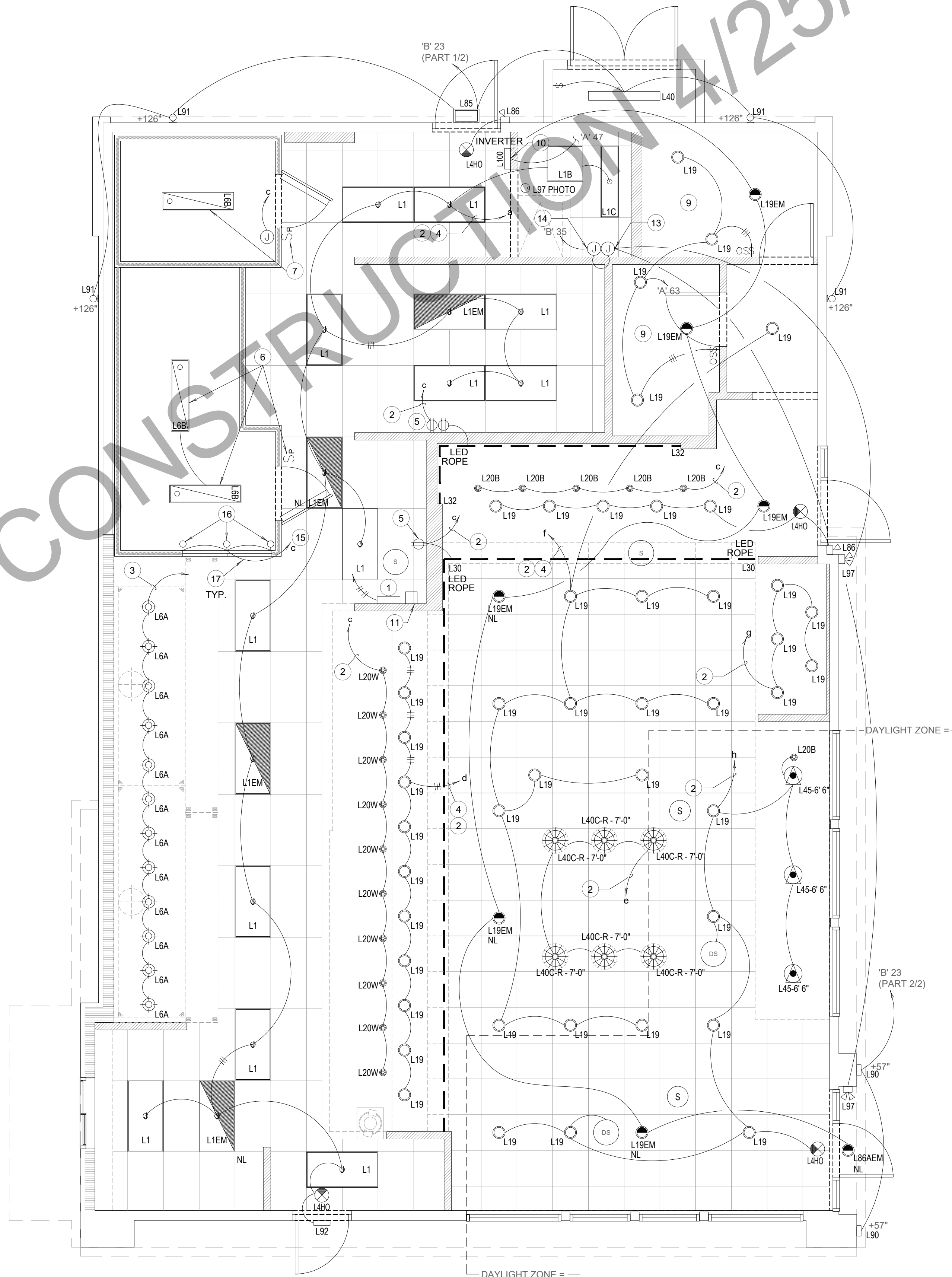
NOTE:
CONTRACTOR TO INSTALL (2) 5 GANG SWITCH BOXES AS SHOWN BELOW. DO NOT INSTALL SEPERATE INDIVIDUAL BOXES FOR EACH SWITCH.

(a)	(b)	(c)	(d)	(e)
\$	\$	\$	\$	\$
BACK-OF-HOUSE LTG & EX. FAN & RECIRC PUMP	SHOW WINDOW RECEPS	WALK-IN, MENU LED ACCENTS	SERVING LINE SOFFIT	DINING PENDANTS
(f)	(g)	(h)	(i)	(j)
\$	\$	\$	\$	60.00
INTERIOR DINING	BEVERAGE COUNTER	DAYLIGHT HARVEST	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	DAYLIGHT HARVESTING ZONE	'A' 47	219 VA
i	SPARE			
j	OVERRIDE	INTERIOR LIGHTING		

INTERIOR / EXTERIOR LTG CONTACTORS SCHEDULE 4

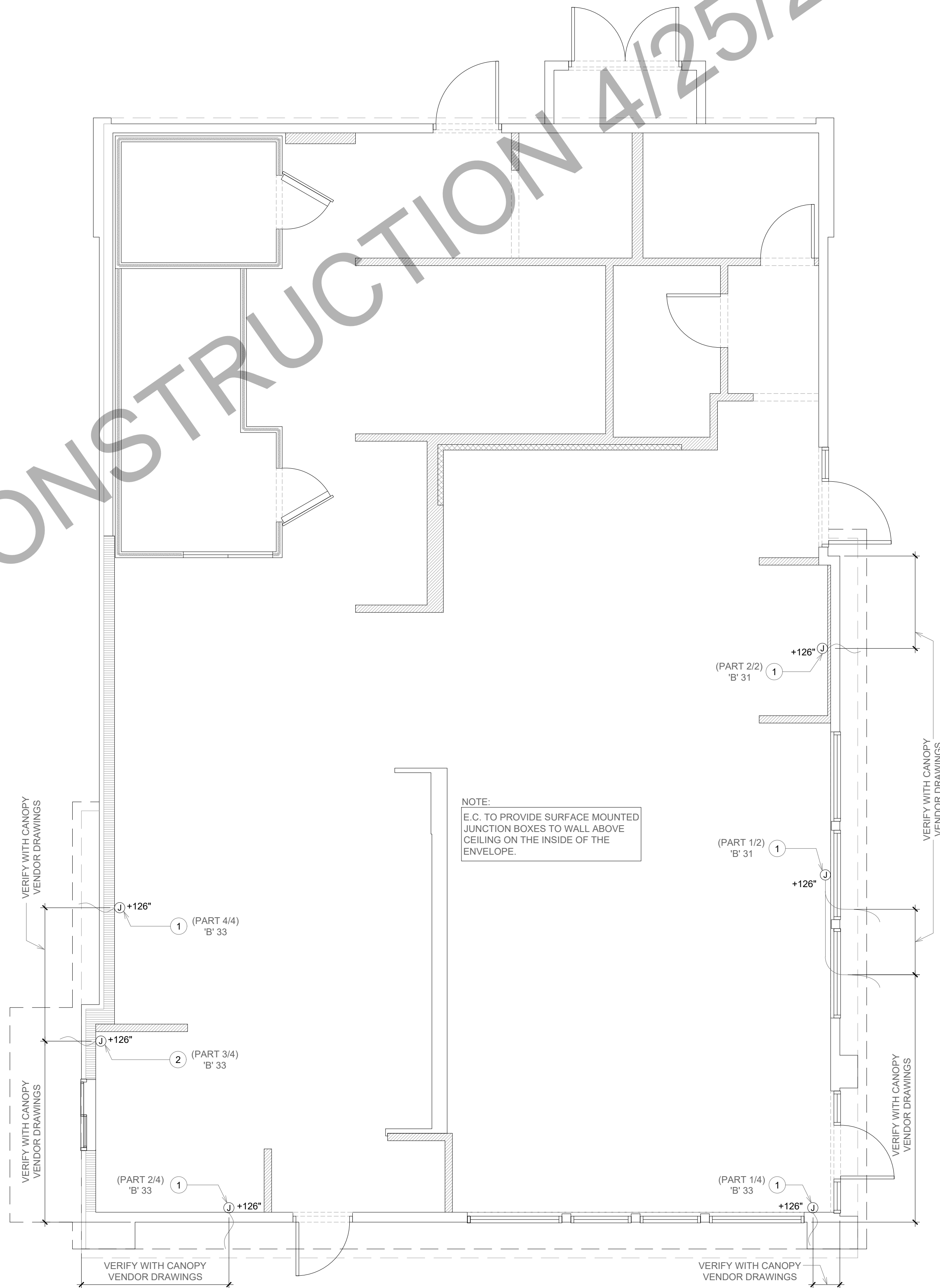
NOT TO SCALE E-101



LIGHTING FLOOR PLAN 1

Scale: 1/4"=1'-0" E-101

ISSUED FOR BID - NOT FOR CONSTRUCTION 4/25/22



1. E.C. TO PROVIDE J-BOX WITH 3' WHIP FOR CONNECTION TO PANDA EXPRESS PROVIDED LIGHTED CANOPY. E.C. TO MAKE FINAL CONNECTION.
2. E.C. TO PROVIDE J-BOX WITH 3' WHIP FOR CONNECTION TO PANDA EXPRESS PROVIDED LIGHTED DRIVE THRU CANOPY. E.C. TO MAKE FINAL CONNECTION.
3. ALL JUNCTION BOXES ON THIS SHEET TO BE RECESS MOUNTED.

CANOPY LIGHTING KEYED NOTES 2
NOT TO SCALE E-101.1

CANOPY LIGHTING PLAN 1
Scale: 1/4"=1'-0" E-101.1



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DRAWN BY: BSP

PANDA PROJECT #: - D8638
C&P PROJECT #: - 2210869

CUHACI PETERSON
2600 Maitland Center Parkway
Suite #200
Maitland, FL 32751
P (407) 661-9100
F (407) 661-9101
c-p.com

01.25.2022



JAISON MORAS,
VA #054677

PANDA EXPRESS
TRUE WARM & WELCOME 2500
2406 NORTH MAIN STREET
HIGH POINT, NC 27262

E-101.1

CANOPY LIGHTING PLAN

TRUE WARM & WELCOME 2500 R2

[illegible]

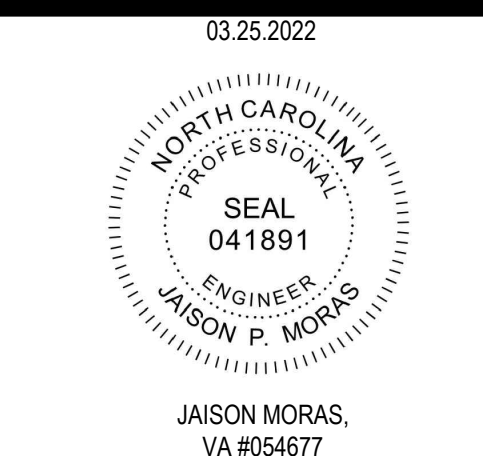
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E-102

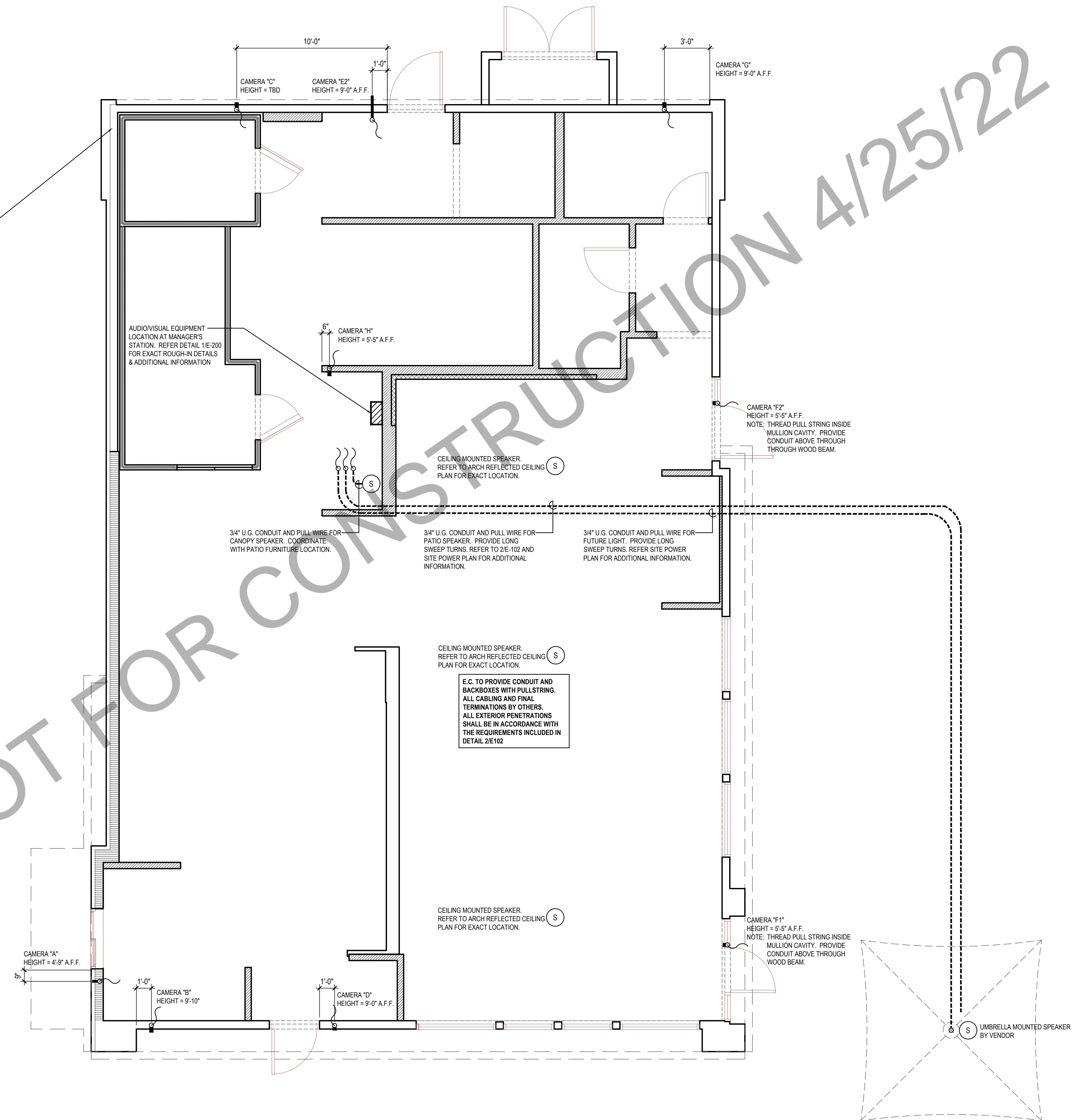
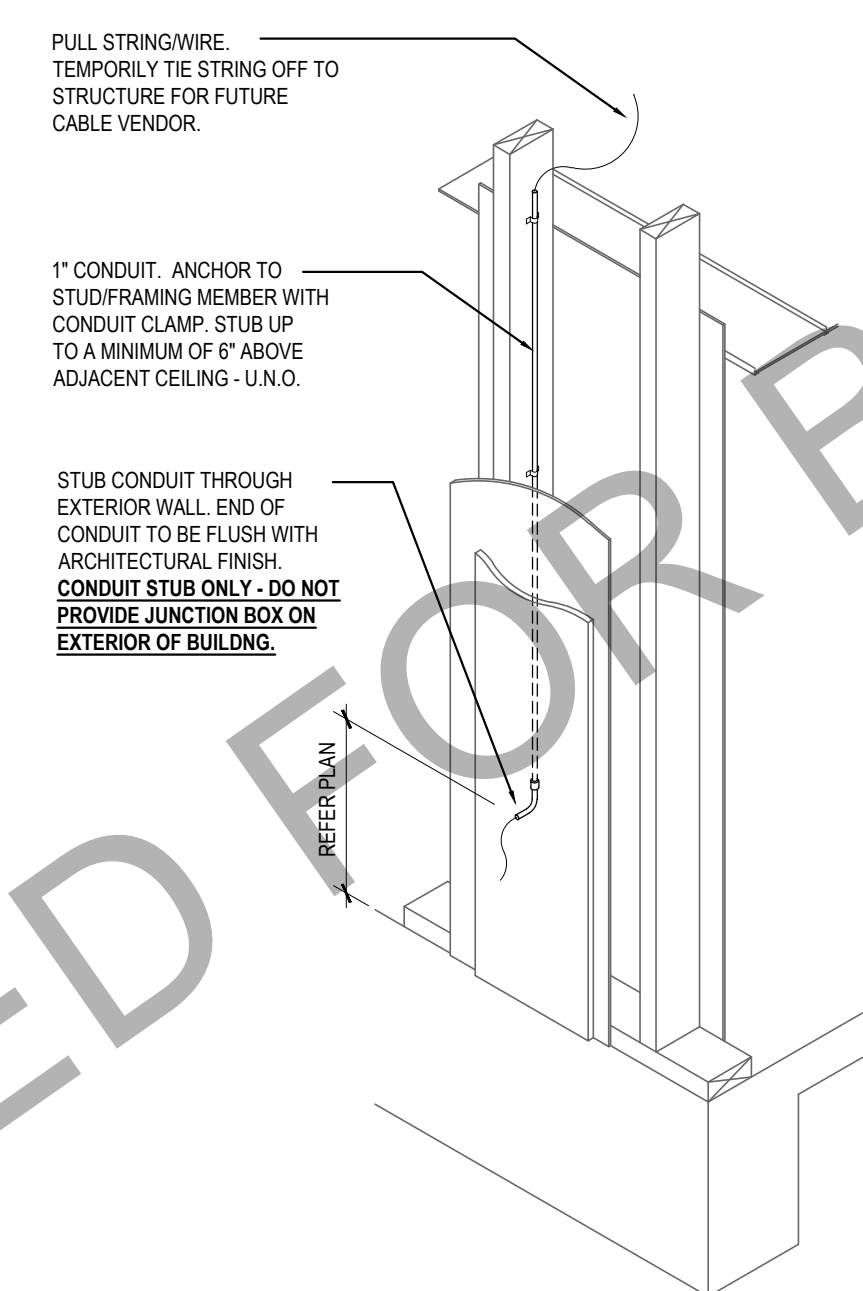
SECURITY CAMERA PLAN

IF APPLICABLE, ALL ELECTRICAL CONTRACTORS, INCLUDING LOW VOLTAGE CONTRACTORS, MUST BE LISTED ON THE PERMIT/ RECORD, WHETHER FURNISHED BY THE GENERAL CONTRACTOR, BUSINESS OWNER OR OTHERS.

NOTE FOR ALL LOW VOLTAGE CONTRACTORS. PLEASE LEAVE YOUR COMPANY NAME, A CONTACT NUMBER FOR THE ONSITE TECH, AND WHAT NEEDS INSPECTING IN THE "REQUEST COMMENT" AREA WHEN SCHEDULING AN INSPECTION.

INSPECTOR TO FIELD VERIFY CODE COMPLIANCE DURING THE INSPECTION. CONTRACTOR WILL NEED TO BE ON SITE DURING THE INSPECTION TO IDENTIFY WIRING PATHS, PROVIDE LADDER IF NEEDED, ETC. PLANS MUST BE ON SITE DURING THE INSPECTION.

ALL EQUIPMENT MUST BE INSTALLED PER THE MANUFACTURES INSTALLATION INSTRUCTIONS AND BE APPROVED FOR THE ENVIRONMENT THE EQUIPMENT IS BEING INSTALLED IN. INSTALLATION INSTRUCTIONS MUST BE PROVIDED DURING THE INSPECTION, IF REQUESTED OR NEED BY THE ELECTRICAL INSPECTOR.





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

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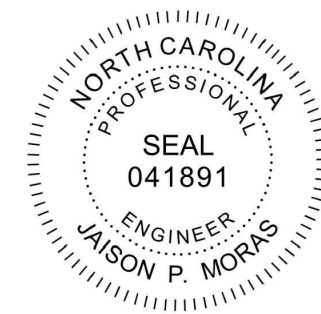
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CUHACI PETERSON
2600 Maitland Center Parkway
Suite #200
Maitland, FL 32751
P (407) 661-9100
F (407) 661-9101
c-p.com

03.25.2022



JAISON MORAS,
VA #054677

PANDA EXPRESS
TRUE WARM & WELCOME 2500
2406 NORTH MAIN STREET
HIGH POINT, NC 27262

E-104

ROOF POWER PLAN

TRUE WARM & WELCOME 2500 R2

- 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 CONTRACTOR SCHEDULE. 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 OUTLET WITH RED DOT INUSE COVER AT PARAPET +24" ABOVE ROOF FOR HEAT TAPE. HEAT TAPE PROVIDED BY OTHERS.
- DO NOT INSTALL UNTIL BACK DRAFT DAMPER INSTALLATION IS COMPLETE. UTILIZE FACTORY KNOCKOUTS FOR ELECTRICAL RUN FOR THIS FAN. REFER TO SHEET M-403.
- 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.
- 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).

ROOF PLAN KEYED NOTES 3

NOT TO SCALE E-104

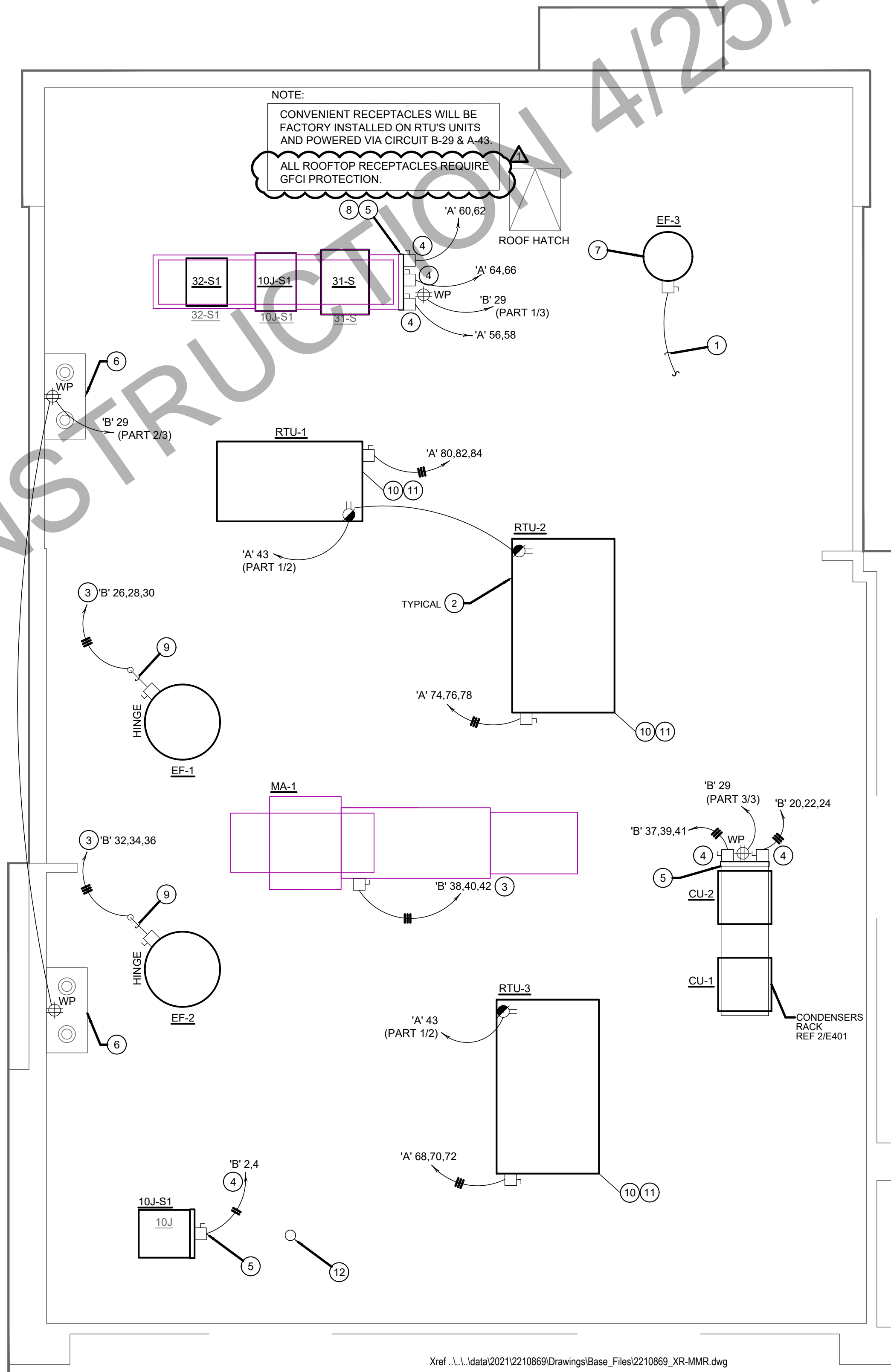
ROOFTOP EQUIPMENT SCHEDULE

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 (LENNOX)			33.0	208V.3Ø	3 #6, #10 GND., 1" C.		AT UNIT	60A. 3P. 3F. WP (1)(4)
RTU2	A/C UNIT (LENNOX)			46.0	208V.3Ø	3 #6, #10 GND., 1" C.		AT UNIT	60A. 3P. 3F. WP (1)(4)
RTU3	A/C UNIT (LENNOX)			46.0	208V.3Ø	3 #6, #10 GND., 1" C.		AT UNIT	60A. 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
CU-2	CONDENSING UNIT			21.4	208V.3Ø	3 #10, #10 GND., 1" C.		AT UNIT	30A. 3P. 3F. WP
MA-1	MAKE-UP AIR UNIT	5.0	15.0		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/ COOLER COND.			27.0	208V.1Ø	2 #10, #10 GND., 3/4" C.		AT UNIT	(5)(3)
32-S1	W/ FREEZER COND.			32.0	208V.1Ø	2 #8, #10 GND., 3/4" C.		AT UNIT	60A. 2P. 2F. WP (5)(3)
10J-S1	ICE MACHINE COND.			11.7	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.
(5) COMBINATION 60A. 2P. 2F. WP DISCONNECT SWITCH WITH RK5 FUSES PER MANUFACTURER RECOMMENDATION.

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
- ALL UNDERGROUND CONDUITS ARE REQUIRED TO BE SEALED WITH A COMPOUND COMPATIBLE WITH WIRING
- ALL UNDERGROUND CONDUITS ARE REQUIRED TO BE INSPECTED PRIOR TO BEING BACKFILLED.
- ALL CONDUITS INSTALLED IN THE OUTDOOR POLE-BASES, ARE REQUIRED TO BE INSPECTED.

SITE PLAN GENERAL NOTES

2

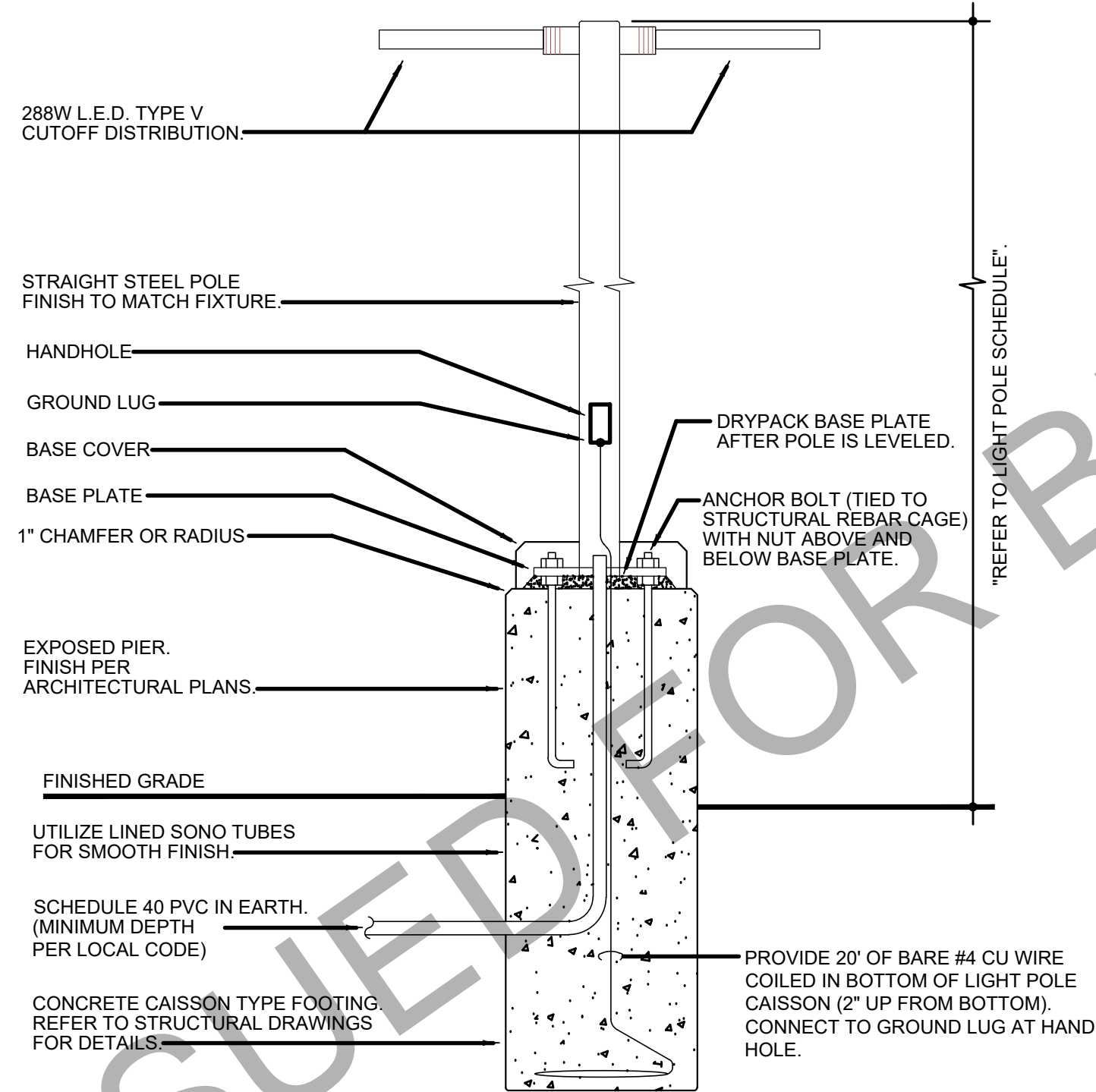
E-105

- FEED THROUGH LIGHTING CONTACTOR. REF: 11/E400.
- STUB UP LOCATION FOR (3) 3/4" CONDUITS & PULL STRINGS, TO ENTER BUILDING & UP TO 6" ABOVE CEILING. REFER TO SHEET 1/E401.
- STUB-UP LOCATION FOR MENU BOARD. SIGN DISCONNECT PROVIDED BY SIGN CONTRACTOR. COORDINATE PRECISE LOCATION WITH ARCHITECT / OWNER.
- DRIVE-THRU SENSOR LOOP. COORDINATE LOCATION. REFER TO DETAIL 1 / E401.
- STUB-UP FOR DRIVE-THRU ORDER CONFIRMATION MONITOR. COORDINATE LOCATION WITH ARCHITECT / OWNER.
- 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/E400.
- SEE POLE MOUNTING DETAIL. REFER TO 4/E105.
- CABLE PULL BOX; REFERENCE 1/E100. INSTALL MINIMUM 3' FROM SIDEWALK. DO NOT INSTALL IN SIDEWALK CONCRETE.
- REF: 1/E400 FOR SES GROUNDING DETAIL.

SITE PLAN KEYED NOTES

3

E-105



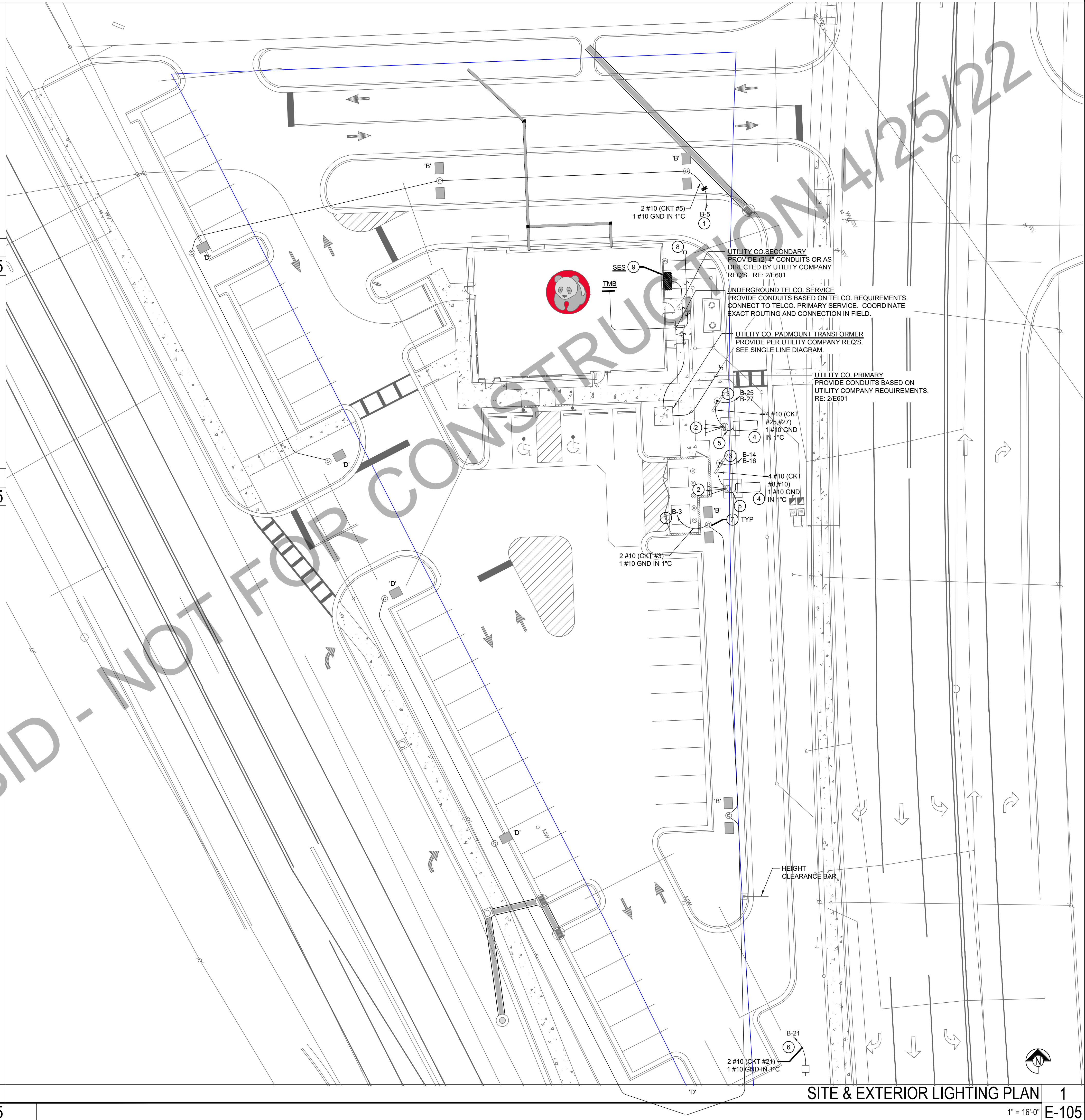
NOTE: THIS DETAIL IS FOR ELECTRICAL INSTALLATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.

POLE MOUNTING DETAILS

4

NO SCALE

E-105



SITE & EXTERIOR LIGHTING PLAN

1

1" = 16'-0"

E-105



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

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2600 Maitland Center Parkway
Suite #200
Maitland, FL 32751
P (407) 661-9100
F (407) 661-9101
c-p.com

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JAISON MORAS,
VA #054677

PANDA EXPRESS

TRUE WARM & WELCOME 2500
2406 NORTH MAIN STREET
HIGH POINT, NC 27262

E-105

SITE & EXTERIOR LIGHTING PLAN

TRUE WARM & WELCOME 2500 R2



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1683 Walnut Grove Ave.
Rosemead, California
91770
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CUHACI PETERSON
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P (407) 661-9100
F (407) 661-9101
c-p.com

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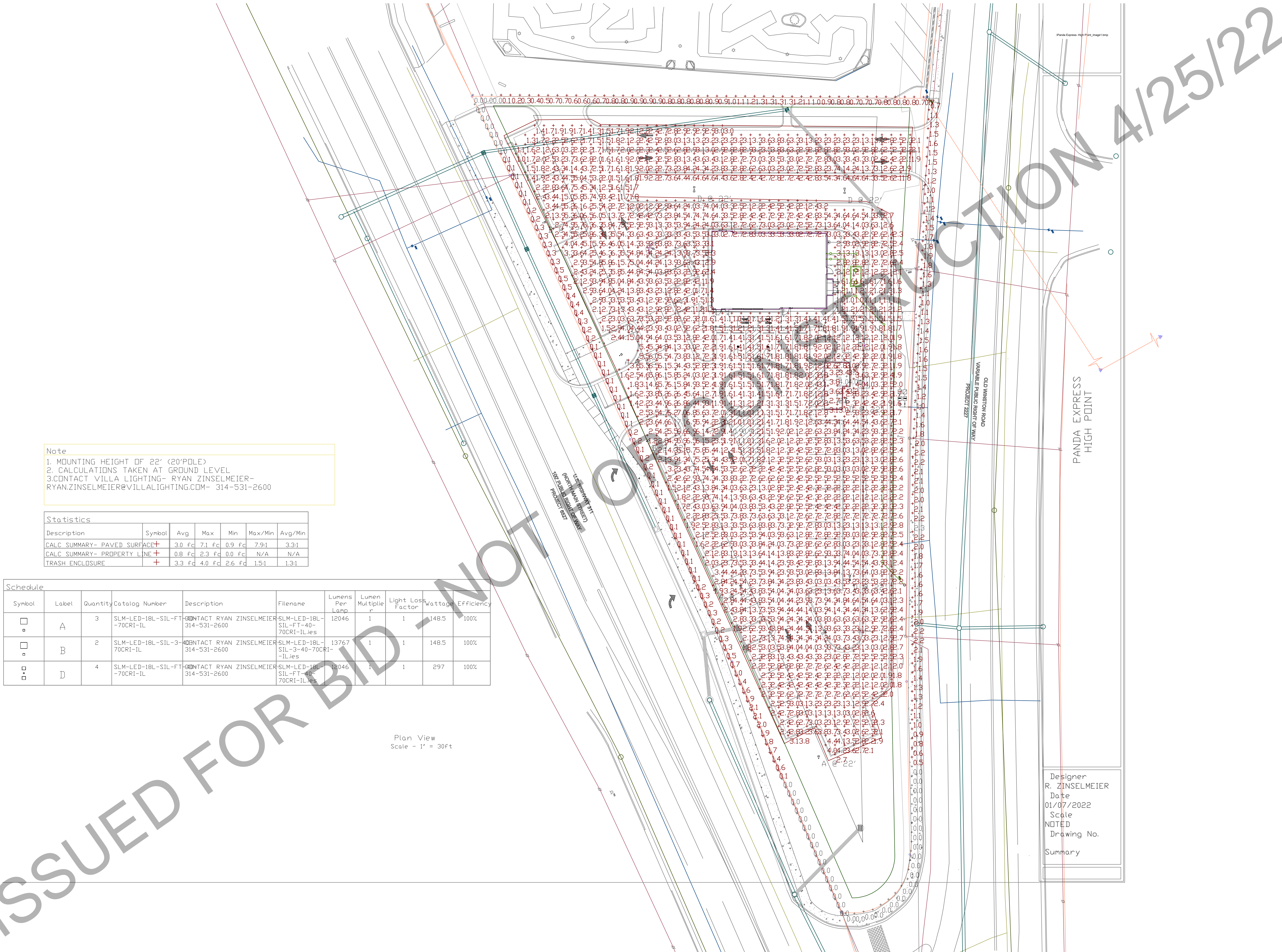
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PANDA EXPRESS

TRUE WARM & WELCOME 2500
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HIGH POINT, NC 27262

E-106
HOT - MEDIUM
SITE PHOTOMETRIC PLAN

TRUE WARM & WELCOME 2500 R2

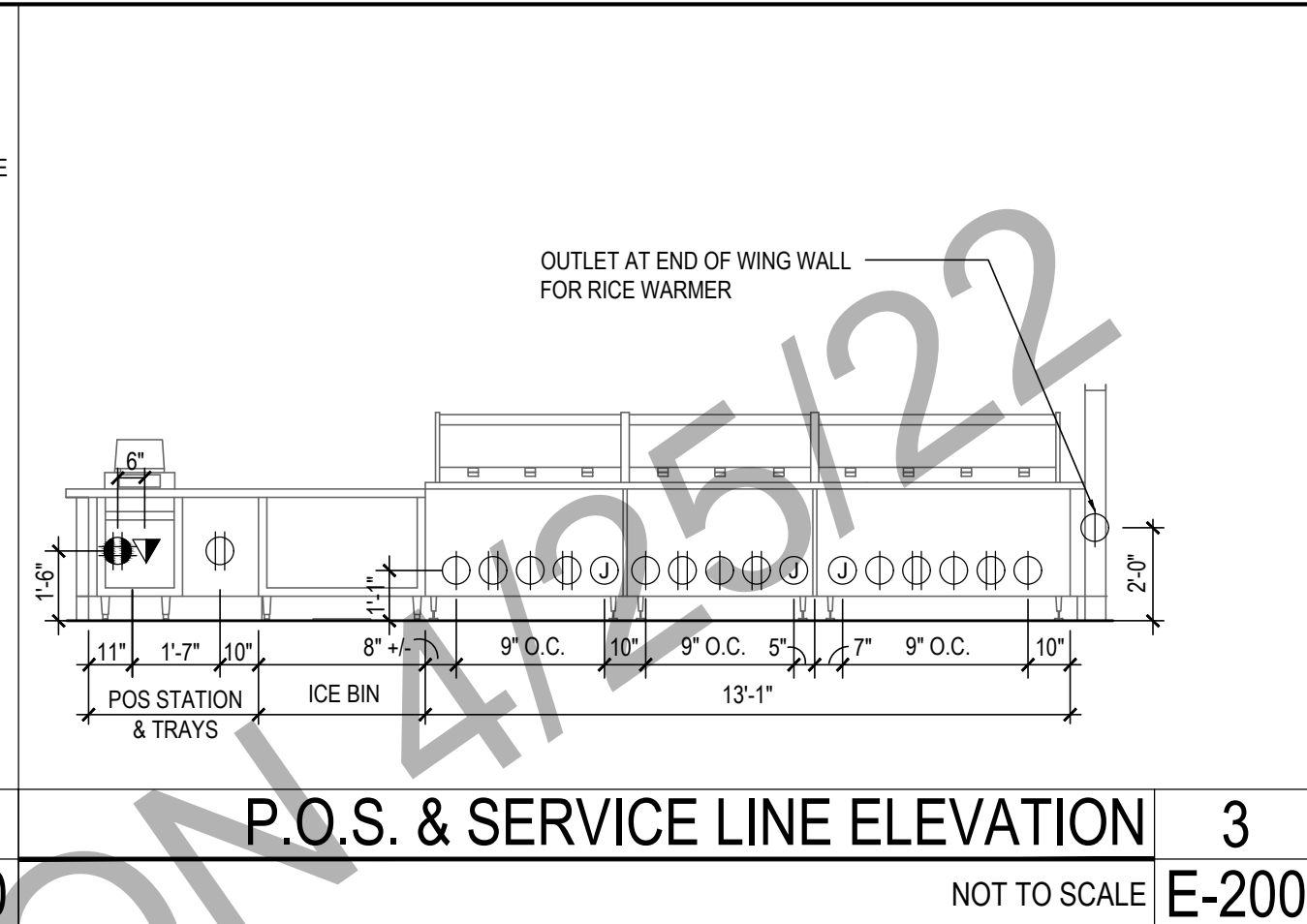
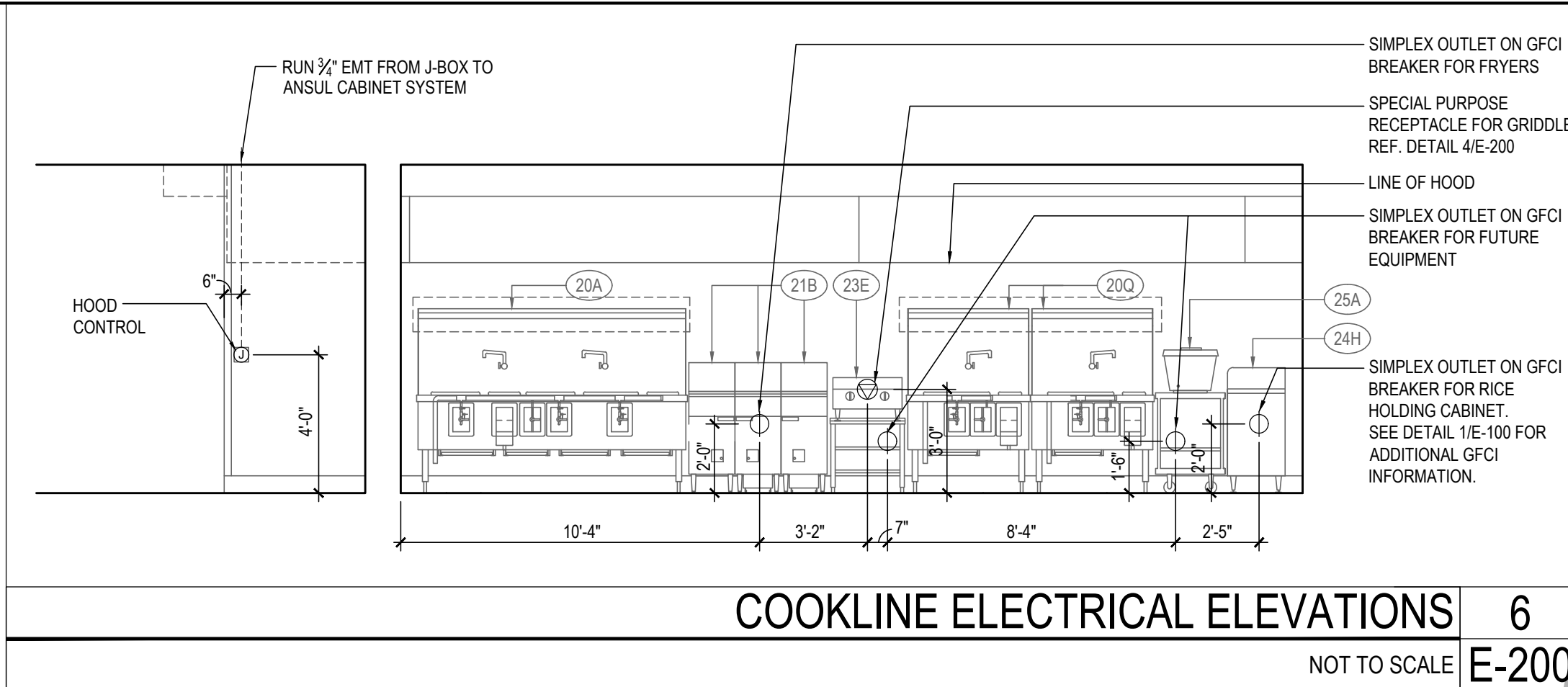
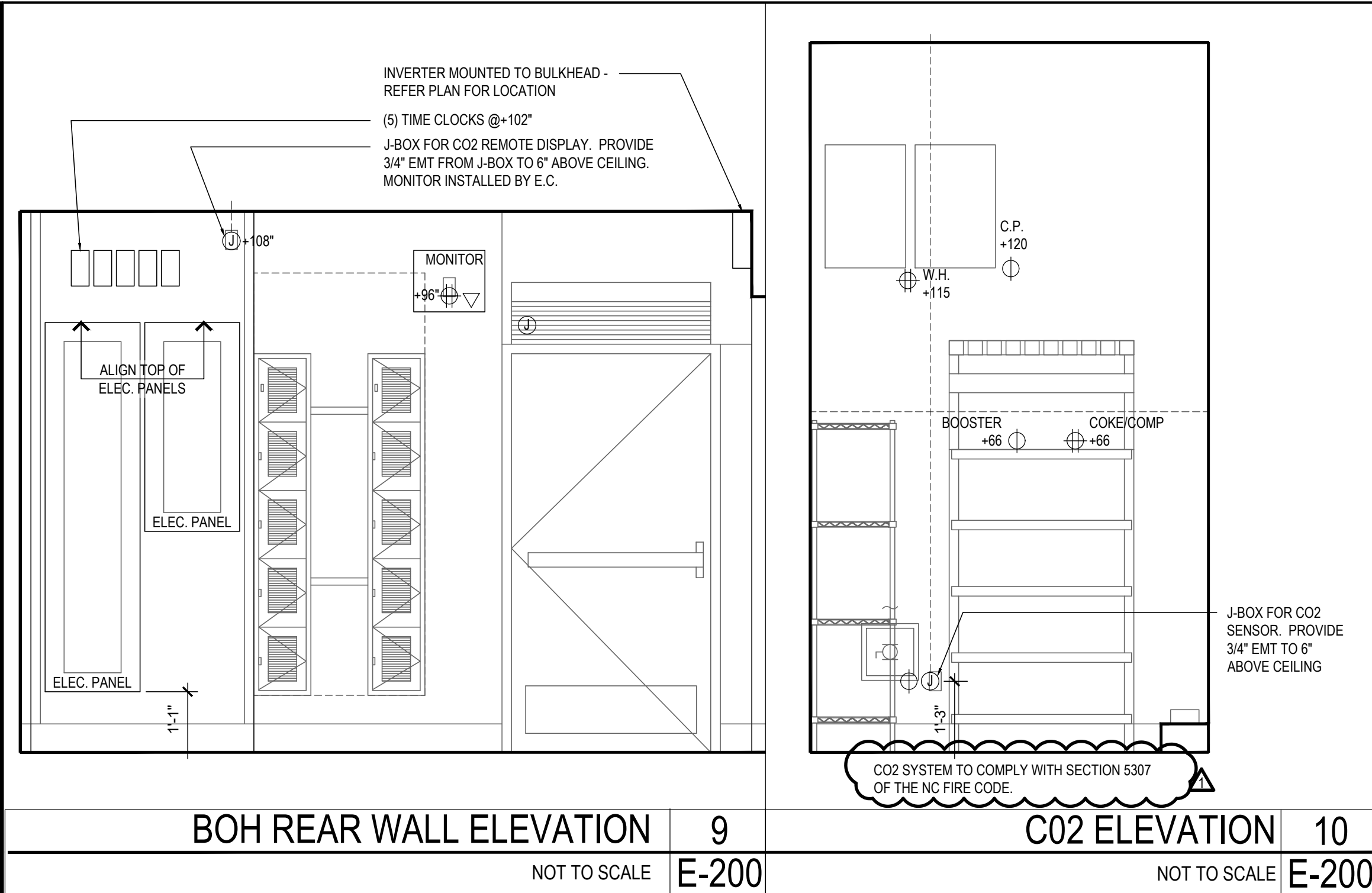


Note
1. MOUNTING HEIGHT OF 22' (20' POLE)
2. CALCULATIONS TAKEN AT GROUND LEVEL
3. CONTACT VILLA LIGHTING- RYAN ZINSELMEIER-
RYAN.ZINSELMEIER@VILLALIGHTING.COM- 314-531-2600

Statistics					
Description	Symbol	Avg	Max	Min	Max/Min
CALC SUMMARY- PAVED SURFACE	+	3.0 fc	7.1 fc	0.9 fc	7.9:1
CALC SUMMARY- PROPERTY LINE	+	0.8 fc	2.3 fc	0.0 fc	N/A
TRASH ENCLOSURE	+	3.3 fc	4.0 fc	2.6 fc	1.5:1

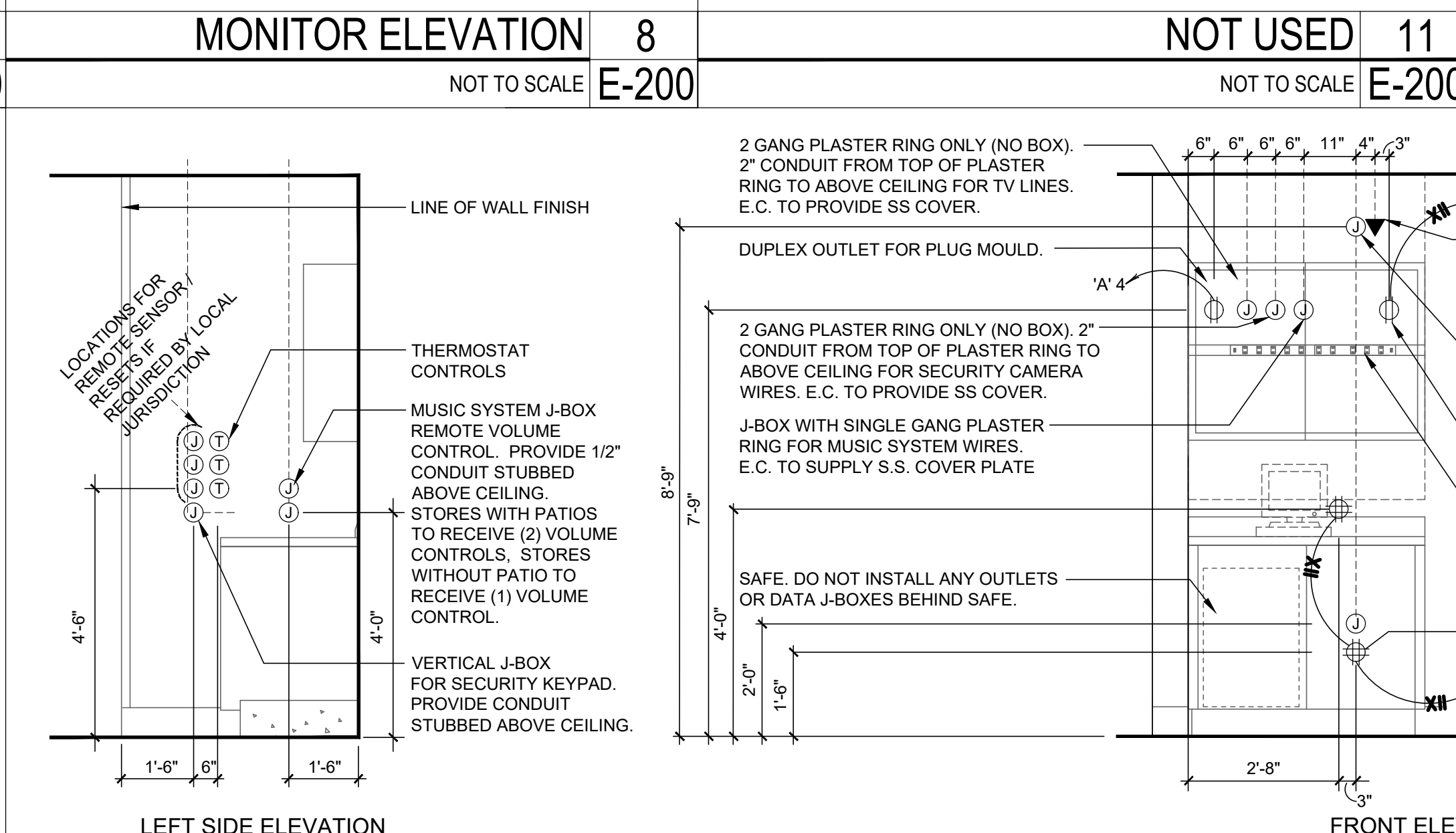
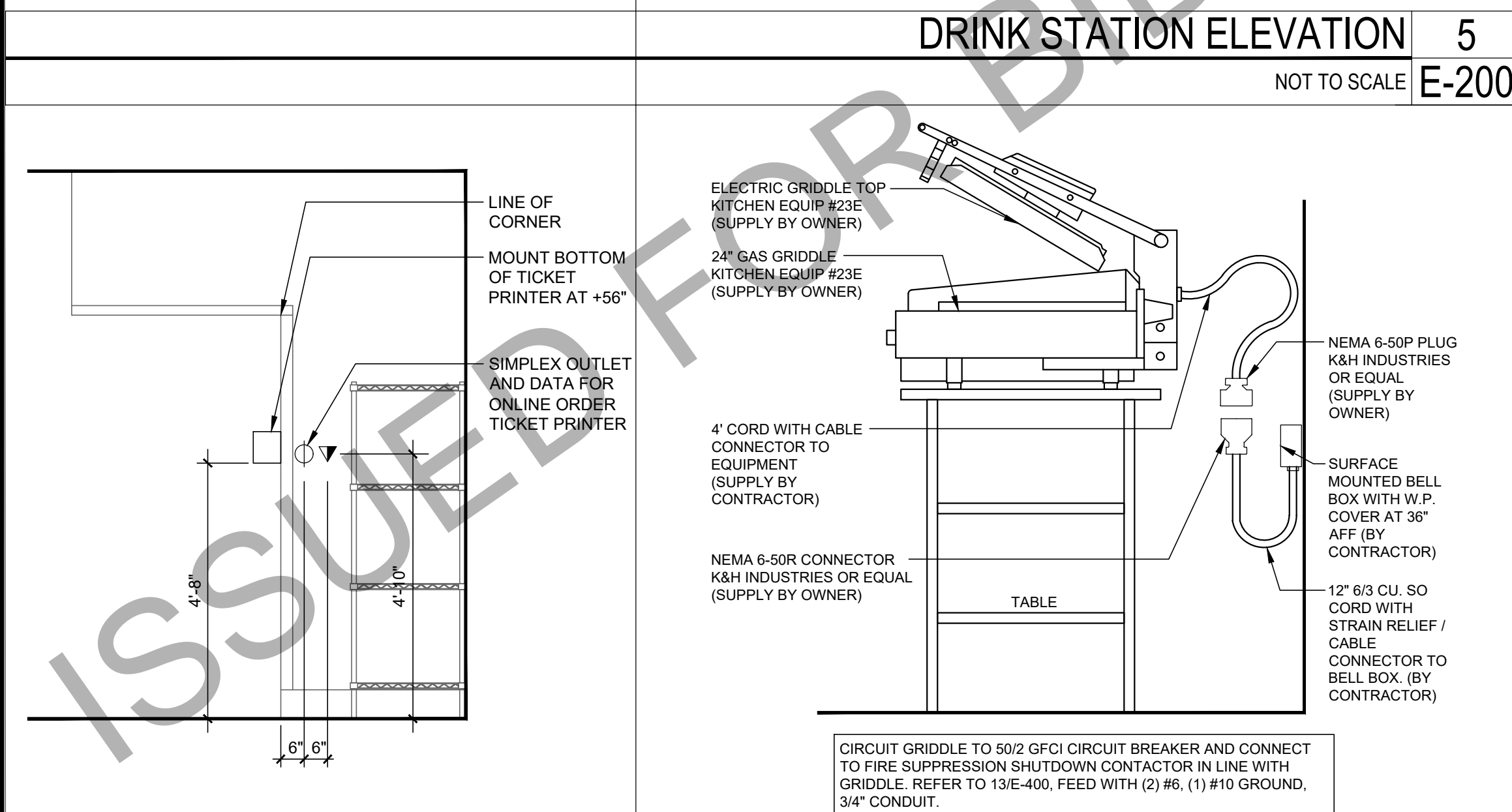
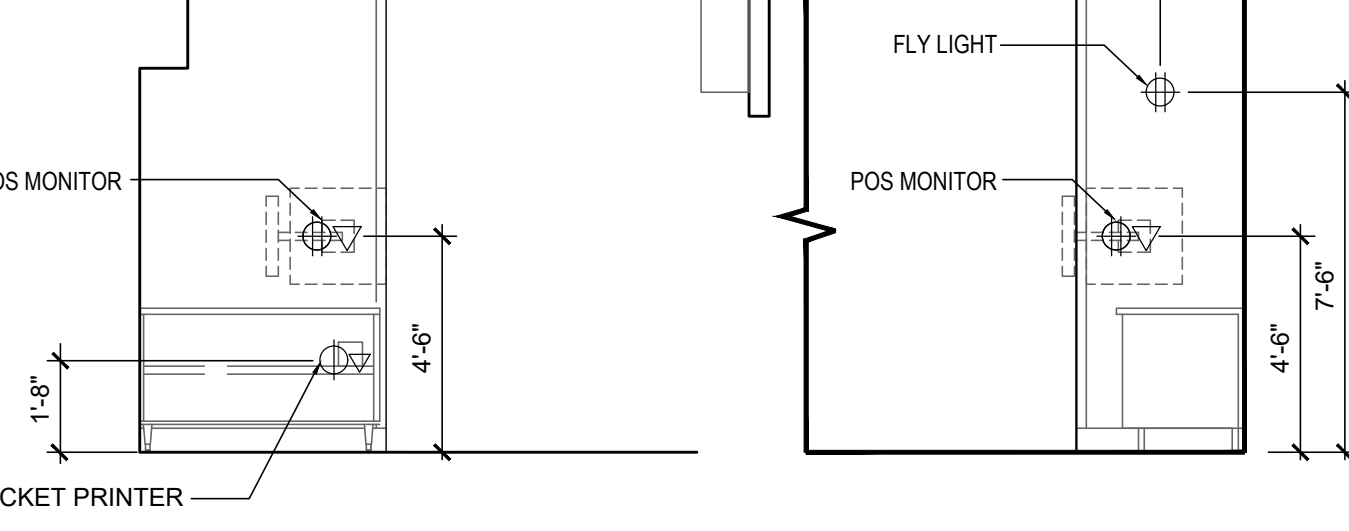
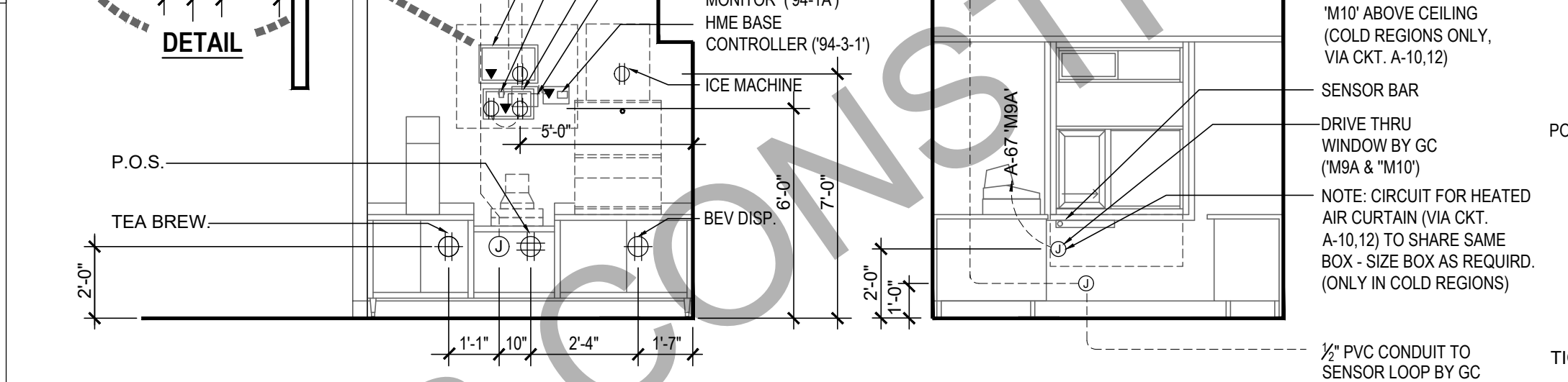
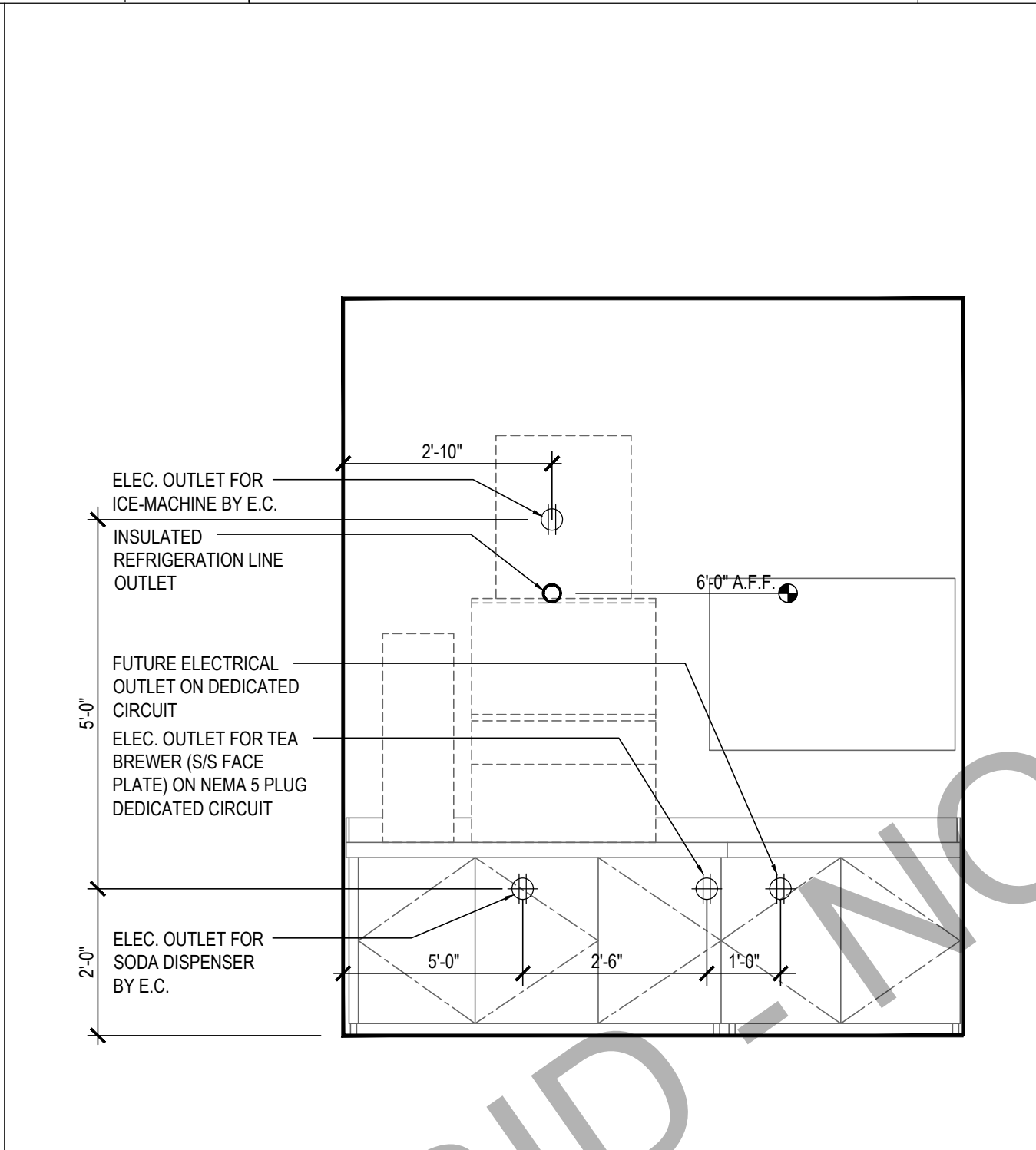
Schedule									
Symbol	Label	Quantity	Catalog Number	Description	Filename	Lumens Per Lamp	Lumen Multiplier	Light Loss Factor	Wattage Efficiency
□	A	3	SLM-LED-18L-SIL-FT-70CRI-IL	CONTACT RYAN ZINSELMEIER 314-531-2600	SLM-LED-18L-SIL-FT-40-70CRI-IL.ies	12046	1	1	148.5
□	B	2	SLM-LED-18L-SIL-3-70CRI-IL	CONTACT RYAN ZINSELMEIER 314-531-2600	SLM-LED-18L-SIL-3-40-70CRI-IL.ies	13767	1	1	148.5
□	D	4	SLM-LED-18L-SIL-FT-70CRI-IL	CONTACT RYAN ZINSELMEIER 314-531-2600	SLM-LED-18L-SIL-FT-40-70CRI-IL.ies	12046	1	1	297

Plan View
Scale - 1" = 30'ft



GENERAL NOTE:

- ALL RECEPTACLES LISTED IN NEC ARTICLE 210.8 REQUIRE GFCI PROTECTION.
- ALL HEAT TAPES OR HEAT TRACE REQUIRE EQUIPMENT GFCI PROTECTION.
- IF NEEDED DURING THE ELECTRICAL INSPECTION, CONTRACTOR IS TO PROVIDE INSTALLATION INSTRUCTION FOR ANY INSTALLED EQUIPMENT.
- ALL CONDUITS ENTERING OR LEAVING A COOLER OR FREEZER, REQUIRE A SEALANT COMPATIBLE WITH WIRING



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Maitland, FL 32751
P (407) 661-9100
F (407) 661-9101
c-p.com

03.25.2022
NORTH CAROLINA PROFESSIONAL SEAL
041891
ENGINEER
JAISON P. MORAS
VA #054677

PANDA EXPRESS
TRUE WARM & WELCOME 2500
2406 NORTH MAIN STREET
HIGH POINT, NC 27262

E-200
ELECTRICAL ELEVATIONS

TRUE WARM & WELCOME 2500 R2



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1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8268

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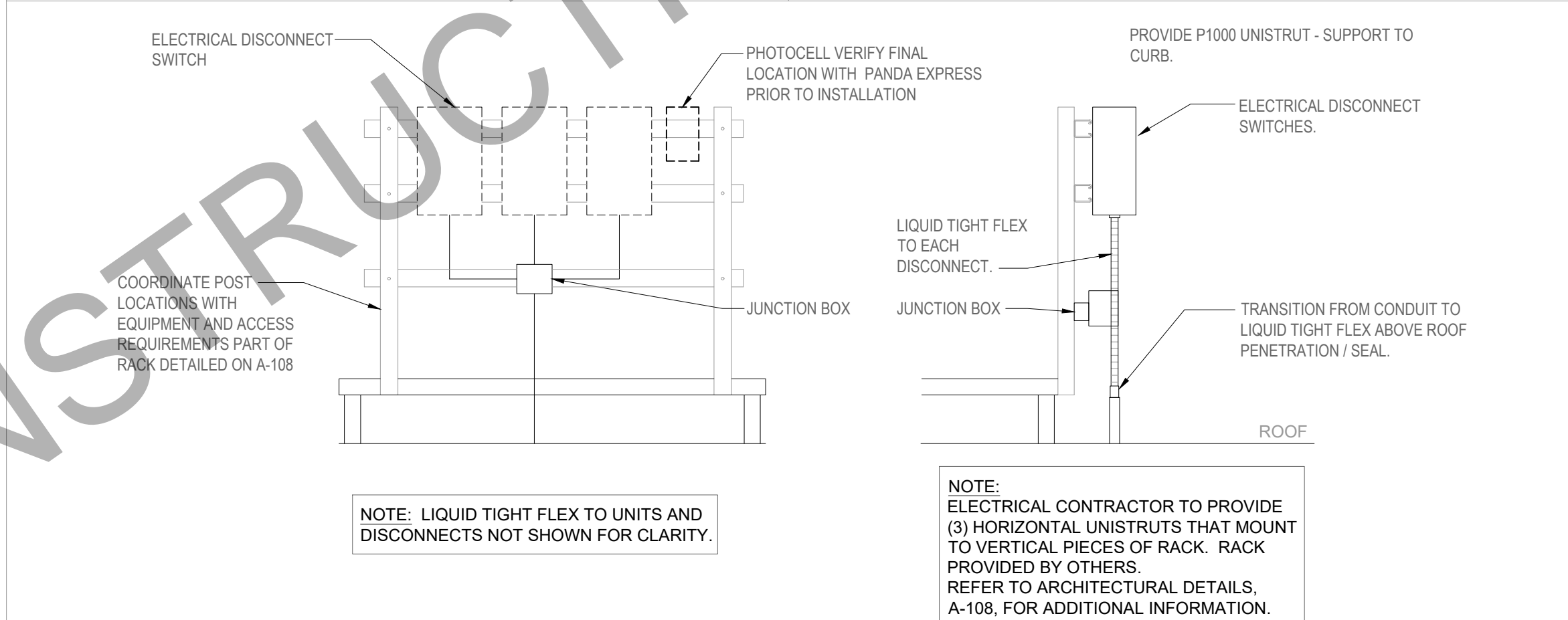
2600 Maitland Center Parkway
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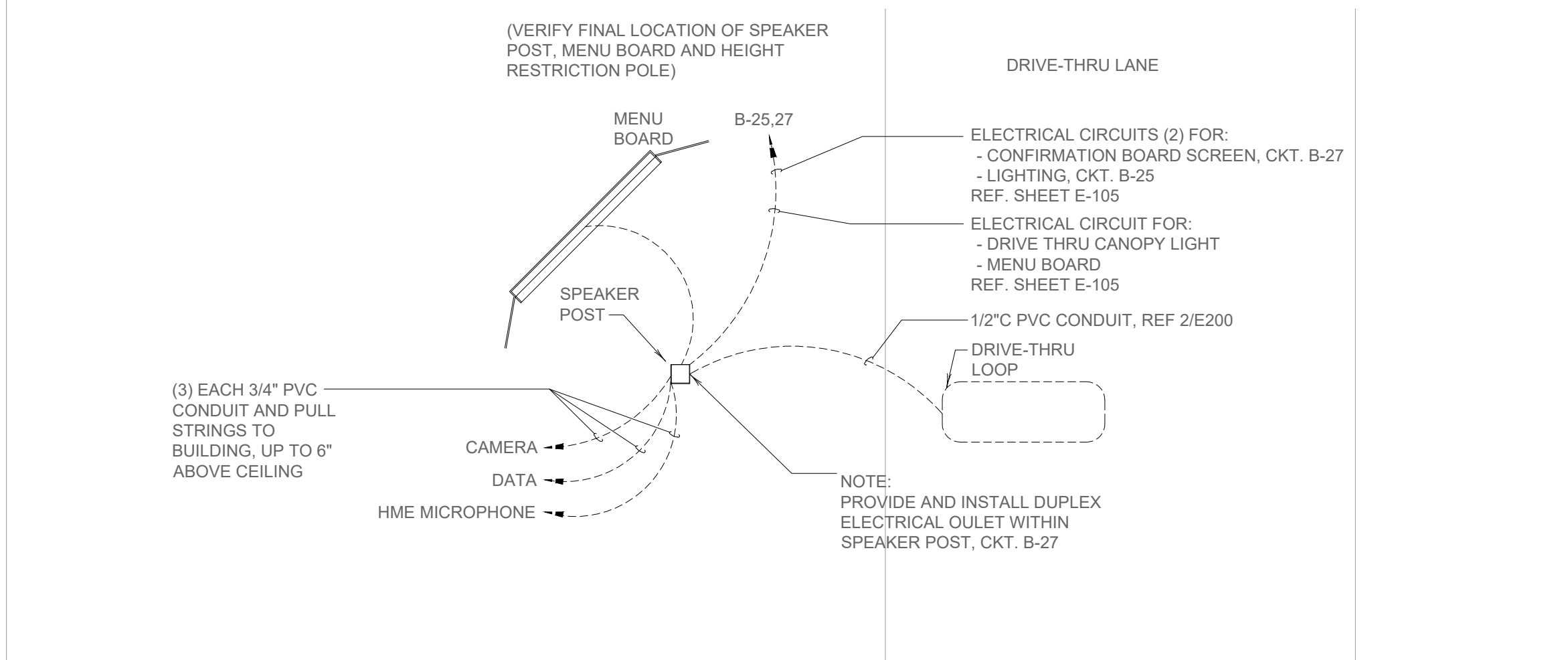
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E-401
ELECTRICAL DETAILS, DIAGRAMS
TRUE WARM & WELCOME 2500 R2



EQUIPMENT DISCONNECT SWITCH SUPPORT 2
NOT TO SCALE E-401



MENU BOARD & SENSOR LOOP 1
NOT TO SCALE 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).

CODE REQUIREMENT:

NEC 250.50, IF AVAILABLE, ALL GROUNDING ELECTRODES AS DESCRIBED IN NEC ARTICLE 250.52 (A) (1) THROUGH (A) (7) THAT ARE AVAILABLE AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. INSPECTOR TO FIELD VERIFY. 250.53(D)(1) CONTINUITY. CONTINUITY OF THE GROUNDING PATH OR THE BONDING CONNECTION TO INTERIOR PIPING SHALL NOT RELY ON WATER METERS OR FILTERING DEVICES AND SIMILAR EQUIPMENT.

NEC 250.68 (B) EFFECTIVE GROUNDING PATH. THE CONNECTION OF A GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER TO A GROUNDING ELECTRODE SHALL BE MADE IN A MANNER THAT WILL ENSURE AN EFFECTIVE GROUNDING PATH. WHERE NECESSARY TO ENSURE THE GROUNDING PATH FOR A METAL PIPING SYSTEM USED AS A GROUNDING ELECTRODE, BONDING SHALL BE PROVIDED AROUND INSULATED JOINTS AND AROUND ANY EQUIPMENT LIKELY TO BE DISCONNECTED FOR REPAIRS OR REPLACEMENT. BONDING JUMPERS SHALL BE OF SUFFICIENT LENGTH TO PERMIT REMOVAL OF SUCH EQUIPMENT WHILE RETAINING THE INTEGRITY OF THE GROUNDING PATH.

BONDING OF REBAR MUST BE INSPECTED PRIOR TO POURING CONCRETE.

1. UNLESS NOTED, ALL DEVICES AND TERMINATIONS 100 AMPS AND LESS TO BE RATED FOR 60°C WIRE, OVER 100 AMPS, 75°C WIRE.
2. CONTRACTOR TO SUBMIT SERVICE ENTRANCE GEAR SHOP DRAWINGS TO SERVING UTILITY COMPANY FOR APPROVAL.
3. ALL WIRE #8 AND SMALLER TO BE THWN/THHN CU.; #6 AND LARGER TO BE XHHW CU.
4. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED LOAD CALCULATIONS AND VERIFIES THAT ALL UPSTREAM PANELS AND EQUIPMENT ARE NOT OVERLOADED.
5. E.C. SHALL PROVIDE GROUNDING PER NEC ARTICLE 250, RE: 1/E400 FOR ADDITIONAL INFORMATION.

SINGLE LINE DIAGRAM GENERAL NOTES

3

NOT TO SCALE

1. ENTIRE INSTALLATION TO COMPLY WITH N.E.C. 110.22 AND 240.86(B).
2. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR.
3. A TWO TIER 65000/10000 AIC SERIES RATING SYSTEM IS SPECIFIED BETWEEN THE SES MAINS FUSES AND THE PANEL BRANCH CIRCUIT BREAKERS. NO SUBSTITUTIONS - UNLESS A FULLY RATED SYSTEM IS PROVIDED.
4. MOTOR CONTRIBUTION TO THE FAULT CURRENT IS LESS THAN 1% OF THE INTERRUPTING RATING OF THE DOWNSTREAM CIRCUIT BREAKER(S).
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LABELS AT ALL COMPONENTS OF THE SERIES PROTECTED SYSTEM. AT PANEL 'A' STATING "CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 21,572 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED". AT PANEL 'B' STATING "CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 20,985 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED". IDENTIFIED REPLACEMENT COMPONENTS REQUIRED.
6. EQUIPMENT SUPPLIER TO PROVIDE CUT SHEETS OF ALL SERIES RATED COMPONENTS (I.E. FUSES, CIRCUIT BREAKERS) HI-LIGHTING EACH ITEM AND THE SPECIFIC LISTING/TESTING OF EACH ITEM'S SERIES RATING WITH THE OTHER.
7. POST THIS INFORMATION ON THE JOB-SITE WITH PERMIT FOR CITY ELECTRICAL INSPECTOR'S REVIEW/APPROVAL.

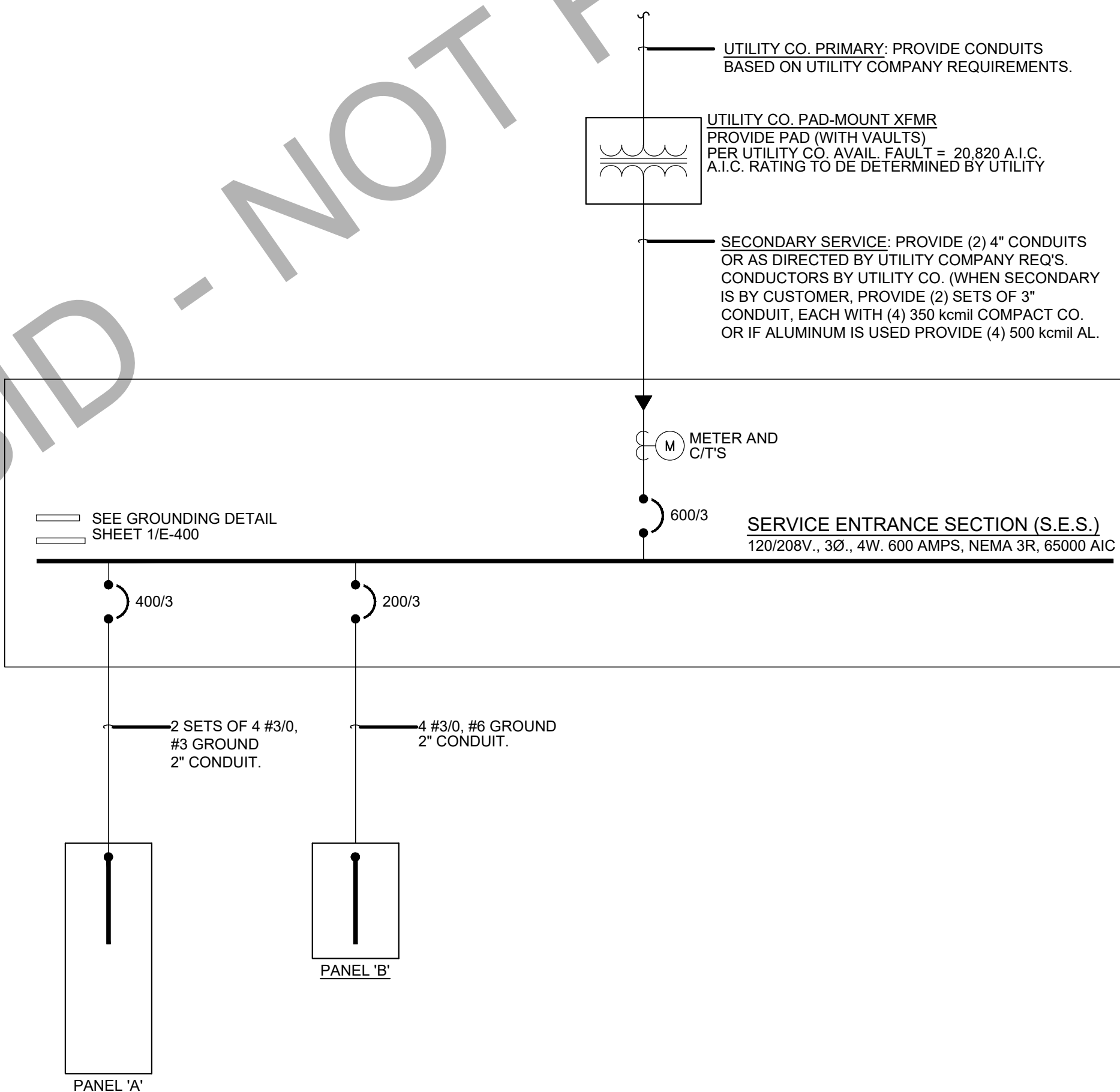
SERIES RATING NOTES

4

NOT TO SCALE

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

PNL A				PANELBOARD				208Y/120V, 3PH, 4W				
				(NEW)				400A M.L.O.				
MOUNTING: FLUSH				LOCATION: ELEC. CABINET				SERIES RATED 65/10K A.I.C.				
TYPE: BOLT ON W/GROUND BUS				INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS NOT ALLOWED				GROUND BUS				
NEMA RATING: 1				ISOLATED GROUND								
	DESCRIPTION	WIRE	BRKR	PL	KVA			PL	BRKR	WIRE	DESCRIPTION	
					A	B	C					
1	WIC DISPLAY LTS/MENUBRD/LED	12	20	1	0.33	1.00				1	20	12
3	HOOD CONTL PNL 'M4'	12	20	1		0.50	0.60			1	20	12
5	SERVICE POS 94, PTR '86A'(2,6)	12	20	1				1.10	0.50	1	20	12
7	DR THRU POS '94'/PTRS '86A'(2,6)	12	20	1	1.10	0.13				1	20	12
9	95-4-S3, FLY LT, CO2 (1,6)	12	20	1		0.82	1.41			2	20	12
11	RICE WARMER '54A' (1,4)	12	20	1			0.11	1.41		2	20	12
13	REF. PREP TABLE '340' (1)	12	20	1	1.80	1.18				1	20	12
15	REF. PREP TABLE '340' (1)	12	20	1		1.08	0.10			1	20	12
17	UNDER CTR FRZR '30L' (1,4)	10	20	1			1.08	1.18		1	20	12
19	BEVERAGE DISP.'4AB'(1)	12	20	1	1.12	1.30				1	20	10
21	SERVING COUNTER	12	20	1		0.10	1.30			1	20	10
23	ICE TEA BREWER '90'	12	20	1			1.78	1.30		1	20	10
25	FOOD PROCESSOR '53'	12	20	1	1.20	1.30				1	20	10
27	ELEC. DOOR EQUIPMENT	12	20	1		0.72	1.30			1	20	10
29	WALK-IN COOLER COIL '31M'(1)	12	20	1			0.24	1.30		1	20	10
31	RICE HOLD CAB '24H' (1,4,6)	10	20	1	1.78	1.30				1	20	10
33	FUTURE CONTROLS (1,6)	12	20	1		0.20	0.84			1	20	12
35	TIMECLOCK	12	20	1			0.01	1.10		1	20	12
37	4B" BOOSTER OUTLET (6)	12	20	1	0.86	1.10				1	20	12
39	HEAT WRAP '32-S7 (4)	12	20	1		0.50				1	20	12
41	FLY LIGHT (6)	12	20	1			0.18	0.87		1	20	12
43	DUCT DETECTORS	12	20	1	0.20					1	20	12
45	LTG-FOOD PRP/EF3 (4)	10	20	1		1.13				1	20	12
47	LTG DINING AREA	12	20	1			0.25	1.40		2	15	12
49	SHOW WINDOW RECEPS	12	20	1	0.90	1.40				1	20	12
51	GENERAL RECEPS	12	20	1		0.72	0.18			1	20	12
53	EXTERIOR RECEPS	12	20	1			0.36	0.18		1	20	12
55	SPARE	20	1			1.23				2	20	12
57	10J ICE MACHINE (6)	12	20	1		0.13	1.23			2	20	12
59	GAS WATER HEATER - P3, (6)	12	20	1			0.96	3.33		2	40	8
61	ICE TEA BREWER '90" (1,4)	10	20	1	1.78	3.33				2	35	10
63	LTG - RESTRMS	12	20	1		0.07	2.81			2	35	10
65	SPARE	20	1					2.81		3	50	6
67	DT WINDOW 'M9A' AIR CURTAIN	12	20	1	0.50	5.52				3	50	6
69	DRIVE THRU HOT WELL CABINET	6	50	1		5.40	5.52					
71	SPARE	20	1					5.52				
73	ELECTRIC GRIDDLE - "23e" (1,6)	6	50	2	3.79	5.52				3	50	6
75	SPARE	20	1			3.79	5.52			3	50	6
77	SPARE	20	1					5.52				
79	SPACE					3.84				3	45	6
81	SPACE						3.84					
83	SPACE							3.84				
PANELBOARD TOTALS CALCULATED					TOTAL	43.49	39.80	36.31	KVA			
PER NEC ARTICLE 220					TOTAL LOAD	363	332	303	AMPS			
					FEEDER LOAD	119.61	KVA	332	AMPS			
						104.22	KVA	290	AMPS			



PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

PNL B				PANELBOARD										208Y/120V, 3PH, 4W 225A M.L.O.			
				(NEW)										SERIES RATED 65/10K A.I.C.			
MOUNTING: FLUSH				INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS NOT ALLOWED										GROUND BUS			
LOCATION: ELEC. CABINET																	
TYPE: BOLT ON W/GROUND BUS																	
NEMA RATING: 1																	
	DESCRIPTION	WIRE	BRKR	PL	KVA			PL	BRKR	WIRE	DESCRIPTION						
					A	B	C										
1	BUILDING SIGN/LOGO (3)	12	20	1	1.00	1.23				2	20	10					
3	EXTERIOR POLE MOUNT LTG (3,4)	10	20	1		0.59	1.23				4	6					
5	EXTERIOR POLE MOUNT LTG (3,4)	10	20	1			0.59	0.90			2	12					
7	TICKET PRINTER	12	20	1	0.22	5.64				8	60	6					
9	BEV. DISPENSER 4AB (1,4)	10	20	1		1.12	5.64				10	12					
11	SECURITY/POS MONITORS	12	20	1			0.10	5.64			10	12					
13	HYPERACTIVE TIMER SYS.	12	20	1	0.10	1.50				1	20	10					
15	DINING TV'S	12	20	1		0.26	1.00				20	10					
17	SPARE	20	1									18					
19	COKE CARBONATOR	12	20	1	0.20	2.57				3	30	10					
21	MONUMENT SIGN (3,4)	10	20	1		0.50	2.57					20					
23	BUILDING LTG/EM (3)	12	20	1			0.10	2.57				24					
25	MENUBOARD (3,4)	10	20	1	1.50	0.71				3	15	12					
27	DR THRU ORDER SCREEN (4)	10	20	1		1.00	0.71					26					
29	RTU CONVENIENCE OUTLETS	12	20	1			0.54	0.71				30					
31	CANOPY LIGHTING (3)	12	20	1	0.13	0.71				3	15	12					
33	CANOPY LIGHTING (3)	12	20	1		0.13	0.71					32					
35	EXTERIOR MOTION SECURITY LED	12	20	1			0.30	0.71				36					
37	CU-1	10	30	3	2.57	2.40				3	30	10					
39						2.57	2.40					40					
41							2.57	2.40				42					
PANELBOARD TOTALS CALCULATED					TOTAL			18.96	19.42	17.12	KVA						
PER NEC ARTICLE 220								158	162	143	AMPS						
					TOTAL LOAD			55.49	KVA	155	AMPS						
					FEEDER LOAD			56.68	KVA	158	AMPS						

SES										SWITCHBOARD
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