

ELECTRICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	2 X 2 FLUORESCENT FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	2 X 4 FLUORESCENT FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	SHADING DENOTES FIXTURE WITH EM BATTERY PACK. 'NL' DENOTES FIXTURE UNSWITCHED FOR NIGHT LIGHT	SEE FIXTURE SCHEDULE
	2 X 4 FLUORESCENT FIXTURE (LETTER INDICATES TYPE) SHADING DENOTES FIXTURE FED FROM EMERGENCY SUPPLY	SEE FIXTURE SCHEDULE
	FLUORESCENT STRIP FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	RECESSED WALL BRACKET FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	RECESSED DOWNLIGHT LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	EXTERIOR DOWNLIGHT FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	EXTERIOR WALL MOUNTED FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	INTERIOR PENDANT FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	EXTERIOR SURFACE MOUNT FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	EXTERIOR BOLLARD	SEE FIXTURE SCHEDULE
	CEILING FAN	SEE FIXTURE SCHEDULE
	EXIT-SHADING DENOTES FACEPLATE LOCATION. LETTER INDICATES TYPE. PROVIDE ARROWS AS REQUIRED.	SEE FIXTURE SCHEDULE
	EXIT-SHADING WITH TWO EYE EMERGENCY	SEE FIXTURE SCHEDULE
	DENOTES EMERGENCY WALL PACK. LETTER INDICATES TYPE.	SEE FIXTURE SCHEDULE
	DENOTES TRACK LIGHTING. LETTER INDICATES TYPE.	SEE FIXTURE SCHEDULE
	SINGLE POLE SWITCH (20A-120/277) '3' DENOTES 3-WAY 'D' DENOTES DIMMER	48" AFF OR AS NOTED
	'T' DENOTES TOGGLE SWITCH	ABOVE CEILING
	OCCUPANCY SENSOR	48" AFF OR AS NOTED
	LOW VOLTAGE LIGHTING SWITCH	48" AFF OR AS NOTED
	DUPLEX RECEPTACLE, 125V, 20A 'IG' DENOTES ISOLATED GROUND	18" AFF OR AS NOTED
	DUPLEX RECEPTACLE, 125V, 20A	18" AFF OR AS NOTED
	DUPLEX RECEPTACLE, 125V, 20A	48" AFF OR AS NOTED
	QUAD RECEPTACLE, 125V, 20A	18" AFF OR AS NOTED
	SINGLE RECEPTACLE, 208V OR 240V	18" AFF OR AS NOTED
	CEILING MOUNTED COILED REEL EXTENSION RECEPTACLE.	CEILING MOUNTED
	CEILING/WALL MOUNTED BOX WITH 20A DUPLEX RECEPTACLE AND DATA OUTLET.	AS NOTED
	CEILING JUNCTION BOX	SEE DETAIL OR AS NOTED
	POWER/TELEPHONE POLE	SEE DETAIL OR AS NOTED
	OUTLET BOX OR J-BOX FOR POWER AND DATA SUPPLY TO FURNITURE SYSTEMS	18" AFF OR AS NOTED
	FLOOR BOX WITH 20A DUPLEX RECEPTACLE AND DATA OUTLET.	SEE DETAIL OR AS NOTED
	COMBINATION VOICE/DATA OUTLET	18" AFF OR AS NOTED
	DATA OUTLET	18" AFF OR AS NOTED
	WEATHERPROOF SPEAKER	WALL OR AS NOTED
	WEATHERPROOF SPEAKER	ON CEILING OR AS NOTED
	CARD READER	COORDINATE WITH SECURITY INSTALLER
	SURVEILLANCE CAMERA	COORDINATE WITH SECURITY INSTALLER
	T.V. OUTLET	18" AFF OR AS NOTED
	PANELBOARD 120/208V	SEE PANEL SCHEDULE
	PANELBOARD 277/480V	SEE PANEL SCHEDULE
	RACEWAY CONCEALED IN WALL OR ABOVE CEILING	SEE SPECIFICATIONS
	UNDERGROUND OR UNDER FLOOR CONDUIT	SEE SPECIFICATIONS
	HOMERUN TO PANEL. LETTERS INDICATE PANEL, NUMBERS INDICATE CIRCUIT. NOTE: HASH MARKS INDICATES THE NUMBER OF WIRES EXCLUDING THE REQUIRED EQUIPMENT GROUND.	SEE SPECIFICATIONS
	MOTOR, NUMERAL INDICATES HORSEPOWER	AS NOTED
	MOTOR RATED SWITCH WITH OVERLOAD RELAYS AS REQUIRED.	MOUNTED ADJACENT TO EQUIPMENT
	NON-FUSIBLE SAFETY SWITCH-SIZE AS NOTED	SEE SPECIFICATIONS
	FUSIBLE SAFETY SWITCH-SIZE AS NOTED	SEE SPECIFICATIONS

*NOTE - ALL SYMBOLS SHOWN MAY NOT BE USED.

ABBREVIATIONS:

AFF - ABOVE FINISHED FLOOR	HVAC - HEATING, VENTILATING, AIR CONDITIONING
AHU - AIR HANDLING UNIT	JB - JUNCTION BOX
BFG - BELOW FINISHED GRADE	LRA - LOCKED ROTOR AMPERES
C - CONDUIT	MCB - MAIN CIRCUIT BREAKER
CW - COOL WHITE	MLO - MAIN LUGS ONLY
DACP - DOOR ALARM CONTROL PANEL	N - NEUTRAL
DN - FEED DOWNWARD	NL - NIGHT LIGHT
EF - EXHAUST FAN	OB - OUTLET BOX
EG - EQUIPMENT GROUND	PB - PULL BOX, PUSH-BUTTON
ENCL - ENCLOSURE	PS - PAY STATION
EWC - ELECTRIC WATER COOLER	SF - SUPPLY FAN
EWB - ELECTRIC WATER HEATER	SPEC - SPECIFICATIONS
WX - EXPLOSION PROOF	TL - TWISTLOCK
FCU - FAN COIL UNIT	TTB - TELEPHONE TERMINAL BOARD
FHP - FRACTIONAL HORSEPOWER	TYTB - TELEVISION TERMINAL BOARD
FLA - FULL LOAD AMPERES	UNO - UNLESS NOTED OTHERWISE
G - GROUND	UP - FEED UPWARD
GF - GROUND FAULT INTERRUPTER	VERT - VERTICAL
HID - HIGH INTENSITY DISCHARGE	WM - WATT MISER
HORIZ - HORIZONTAL	WP - WEATHERPROOF
IG - ISOLATED GROUND	WW - WARM WHITE
LW - LIGHT WHITE	XFMR - TRANSFORMER
HP - HORSEPOWER, HEAT PUMP	NEC - NATIONAL ELECTRIC CODE

NATIONAL ELECTRIC CODE NOTES:

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF NFPA 70 -
2014 NATIONAL ELECTRIC CODE

ELECTRICAL SUBMITTAL NOTES:

SUBMIT ALL ELECTRICAL SYSTEMS SUBMITTALS AT ONE (1) TIME IN ONE (1) INTEGRAL GROUP. PIECE-BY-PIECE SUBMISSION OF INDIVIDUAL ITEMS WILL NOT BE ACCEPTABLE. ENGINEER MAY CHECK CONTENTS OF EACH SUBMITTAL SET UPON INITIAL DELIVERY; IF NOT COMPLETE AS SET FORTH HEREIN, SUBMITTAL SETS MAY BE RETURNED TO CONTRACTOR WITHOUT REVIEW AND APPROVAL AND WILL NOT BE ACCEPTED UNTIL MADE COMPLETE. SHOP DRAWINGS WILL BE REVIEWED MAXIMUM TWICE AS PART OF THIS CONTRACT. ADDITIONAL SHOP DRAWING REVIEWS SHALL BE INVOICED AT \$85.00 PER HOUR, BILLABLE TO THE SUB-CONTRACTOR.

NOTE:

- ALL MOUNTING HEIGHTS SHOWN ARE TO THE TOP OF THE DEVICE UNLESS NOTED OTHERWISE.
- NOT ALL SYMBOLS APPEAR ON PLANS.

GENERAL SCOPE:

- FURNISH AND INSTALL ELECTRICAL LIGHTING AND POWER FOR NEW RESTAURANT FACILITIES TO BE INSTALLED IN SINGLE STORY BUILDING.
- ALL EXTERIOR SIGNAGE TO BE SUBMITTED UNDER A SEPARATE PERMIT BY THE SIGNAGE CONTRACTOR.
- FIRE ALARM SYSTEM SHALL BE BY OTHERS. FIRE ALARM TO BE SUBMITTED UNDER A SEPARATE PERMIT. FIRE ALARM SYSTEM MUST BE PERMITTED BY A LICENSED FIRE PROTECTION CONTRACTOR.

C408.3.2 MANUALS.

- THE CONTRACTOR SHALL PROVIDE AN OPERATING AND MAINTENANCE MANUAL FOLLOWING THE REQUIREMENTS OF C408.3.2.

DRAWING INDEX

SHEET NUMBER	DRAWING TITLE
E-0	ELECTRICAL COVER SHEET
E-1	ELECTRICAL LIGHTING PLAN
E-2	ELECTRICAL POWER PLAN
E-3	KITCHEN EQUIPMENT ELECTRICAL PLAN
E-4	ELECTRICAL ROOF PLAN
E-5	POWER RISER & PANELBOARDS
E-6	SITE PLAN
E-7	ELECTRICAL SPECIFICATIONS

ELECTRICAL GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF NORTH CAROLINA STATE BUILDING CODE 2018 EDITION - NATIONAL ELECTRIC CODE 2017 EDITION, NFPA 70, NFPA 101 & NFPA 72 (CURRENT ADOPTED EDITIONS), ANY OTHER APPLICABLE CODE REFERENCES AND ALL LOCAL ORDINANCES.
- BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK AND THE EXTENT OF DEMOLITION. THE SUBMISSION OF A BID WILL BE EVIDENCED THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
- ELECTRICAL CONTRACTOR SHALL BE EXPERIENCED IN PERFORMING AND INSTALLATION OF WORK SIMILAR TO THAT REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL SUBMIT A LIST OF AT LEAST FIVE PROJECTS THAT THEY BEEN CONTRACTED AND COMPLETED CONSTRUCTION WITH SIMILAR PROJECT SCOPE OF WORK.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL HAVE STUDIED AND COMPARED THE CONTRACT DOCUMENTS WITH EXISTING/PROPOSED CONDITIONS AND NOT LATER THAN TEN (10) DAYS PRIOR TO THE BID OPENING SHALL REPORT TO THE ENGINEER ANY ERROR, INCONSISTENCY, OR OMISSION IN THE CONTRACT DOCUMENTS.
- ELECTRICAL EQUIPMENT SHALL BE AS SPECIFIED. ARCHITECT AND ENGINEER WILL REVIEW ANY SUBSTITUTION FOR COMPATIBILITY.
- ALL CUTTING, PATCHING AND REPAIR WORK SHALL BE THE RESPONSIBILITY OF THE TRADE INVOLVED.
- PROTECT ELECTRICAL EQUIPMENT AND INSTALLATIONS AS NECESSARY. IF DAMAGED OR DISTURBED IN THE COURSE OF THE WORK, REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL CAPACITY, QUALITY, AND FUNCTIONALITY.
- THE CONTRACTOR SHALL INCLUDE, WITHIN THE BID, ALL REQUIRED OFF HOUR, OVERTIME, AND NON-BUSINESS HOUR WORK AS REQUIRED.
- ALL WORK SHALL BE COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH WOULD REQUIRE ELECTRICAL WORK (DISCONNECTION/RECONNECTION ETC.) AND ARE NOT INDICATED ON THE ELECTRICAL PLANS. ALL SUBCONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH OTHER TRADES. LACK OF THIS COORDINATION RESULTING IN ADDED COST TO THE CONTRACT WILL BE BORNE BY THE SUBCONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND SUBMITTALS FOR ELECTRICAL EQUIPMENT SHOWN ON THE PLANS AND SPECIFICATIONS FOR THE ENGINEERS APPROVAL. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO REDO ANY WORK, WHICH WAS NOT APPROVED, OR THE ENGINEER MAY REQUIRE A CREDIT TO THE OWNER. PROVIDE A SET OF ASBUILTS AFTER THE JOB IS COMPLETED. THIS SET SHALL BE CONTINUOUSLY UPDATED DURING CONSTRUCTION.
- PROVIDE IDENTIFICATION FOR ALL LIGHT FIXTURES AND ALL ELECTRICAL COVER PLATES WITH PERMANENT MARKER ON A SELF-ADHERING TAG INDICATING PANEL AND CIRCUIT NUMBER. TYPICAL FOR ALL LIGHTING AND POWER DEVICES.
- ALL WORK SHALL BE PERFORMED DURING TIME PERIODS ACCEPTABLE TO THE OWNER. SCHEDULE ALL WORK WITH THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING.
- THE CONTRACTOR SHALL PERFORM ALL TEMPORARY WORK NECESSARY TO MAINTAIN CONTINUITY OF ELECTRICAL SERVICE (LIKE SAWPOLE SERVICE) WHEN CONNECTION IS MADE. THIS SERVICE SHALL NOT BE INTERRUPTED WITHOUT PRIOR CONSENT OF THE OWNER'S REPRESENTATIVE AND MAY BE INTERRUPTED ONLY AT AND FOR THE SPECIFIED TIME DESIGNATED BY OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE GUIDED BY THE OWNER'S REPRESENTATIVE AT ALL TIMES IN MATTERS AFFECTING THE FACILITIES.
- THE CONTRACTOR SHALL COORDINATE ALL PHASING OF ELECTRICAL WORK AS REQUIRED AND INDICATED ON THE ELECTRICAL DRAWINGS.
- THE OWNER PROJECT REPRESENTATIVE SHALL BE NOTIFIED PRIOR TO CUTTING OF ANY STRUCTURAL ITEM (I.E. CONCRETE FLOOR, MASONRY, WALL, ETC.) WITHIN THE EXISTING BUILDING. METHOD OF CUTTING SHALL BE APPROVED BY THE OWNER PROJECT REPRESENTATIVE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE BUILDING WATERTIGHT DURING CONSTRUCTION.
- ALL WIRING IN CEILING SPACE OR IN AIR HANDLING PLENUMS NOT IN CONDUIT SHALL BE UL LISTED AS SUITABLE FOR PLENUM USE.
- ALL JUNCTION BOXES AND COVER PLATES SHALL BE PAINTED AND LABELED.
- ALL RECEPTACLES WITHIN 6 FEET OF PLUMBING FIXTURES SHALL BE PROVIDED WITH 5 MILLAMP GROUND FAULT INTERRUPTERS. (GFCI RECEPTACLES)
- EXIT SIGNS AND ALL EMERGENCY LIGHTING SHALL BE WIRED AHEAD OF ANY SWITCHING OR CONTACTORS. DO NOT SWITCH EXIT SIGNS OR EMERGENCY NIGHT LIGHTS. CONTRACTOR SHALL PROVIDE AN UNSWITCHED HOT TO BYPASS ANY SWITCHING AND/OR CONTRACTORS FOR ALL SWITCHED EMERGENCY LIGHTING.
- EDGE OF LIGHT SWITCH WALL PLATE SHALL BE NOT MORE THAN 4" AWAY FROM METAL/WOOD DOOR FRAME. TYPICAL FOR SINGLE OR MULTIPLE WALL SWITCHES.
- CONFIRM MOUNTING HEIGHTS AND COORDINATE LOCATION OF ALL OUTLETS, SWITCHES, AND OTHER DEVICES WITH ARCHITECTURAL ELEVATIONS (FURNITURE LAYOUT) PRIOR TO ROUGH-IN.
- PROVIDE SEAL FOR PENETRATION OF FIRE RATED WALLS BY CONDUIT.
- BACK TO BACK RECEPTACLES IN ALL ONE HOUR FIRE RATED WALLS SHALL BE LOCATED A MINIMUM OF 24" ON CENTER.
- BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #12 AND WHERE BRANCH CIRCUIT CONDUCTOR RUNS FROM SOURCE (PANEL) TO THE LAST DEVICE ON THE CIRCUIT EXCEEDS 75 FT. IN LENGTH, THE CONDUCTORS SHALL BE #10 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. FOR RUNS OVER 150 FT. IN LENGTH THE CONDUCTOR SHALL BE #8 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. THE ABOVE APPLIES TO 120 VOLT CIRCUITS ONLY.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER, THE REMOVAL AND DISPOSAL OF ALL ELECTRICAL MATERIALS WHICH IS NOT TO BE USED ON THE PROJECT. CONTRACTOR SHALL REMOVE AND STORE ANY ELECTRICAL MATERIAL IF SO DIRECTED BY OWNER. PATCH AND PAINT WALLS AND CEILINGS AS REQUIRED. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW LIGHTING FIXTURES, RECEPTACLES, PANEL BOARDS, ETC. WITH EXISTING STRUCTURE, PIPING, ETC. AND MAKE ADJUSTMENTS AS REQUIRED.
- REFER TO ELECTRICAL SPECIFICATIONS SHEET FOR REQUIREMENTS.
- UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL INSURE THAT ALL SYSTEMS OPERATE AS DESIGNED AND REQUIRED AND SHALL REVIEW THEIR OPERATION WITH THE OWNER AND PROVIDE TRAINING OF THE MAINTENANCE PERSONNEL. COMPLETE SET OF AS-BUILT DRAWINGS SHALL BE COMPILED BY THE CONTRACTOR AND ISSUED (1 EACH) TO THE ARCHITECT AND BUILDING MAINTENANCE PERSONNEL UPON COMPLETION OF CONSTRUCTION AND TESTING.
- ALL FEEDERS SIZING (BRANCH AND SERVICE ENTRANCE CONDUCTORS) BASED IN AMPACITY OF COPPER THHW CONDUCTORS (NEC 2014 TABLE 310.15(B)(16)) UNLESS OTHERWISE NOTED.
- ARC-FAULT CIRCUIT-INTERRUPTER (AFCI) PROTECTION SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION, FOLLOWING NEC 2014 ART. 210.12.

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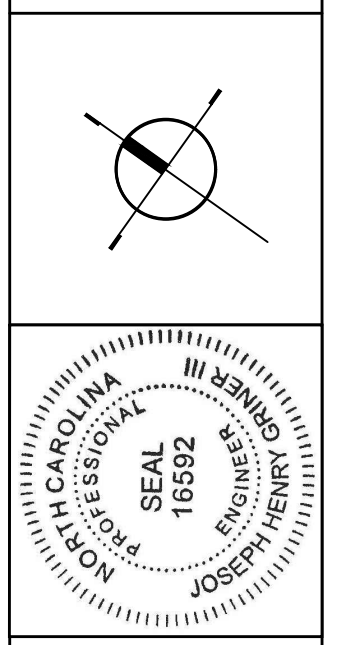
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REVISIONS	BY

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Hwy55
BURGERS SHAKES FRIES
 NORTH MAIN STREET (HWY 210)
 Lillington, Harnett County, N.C.

Date: 1. 24. 20
 Scale: AS NOTED
 Project Mgr: DG
 Drawn: HH
 Job: 19-142
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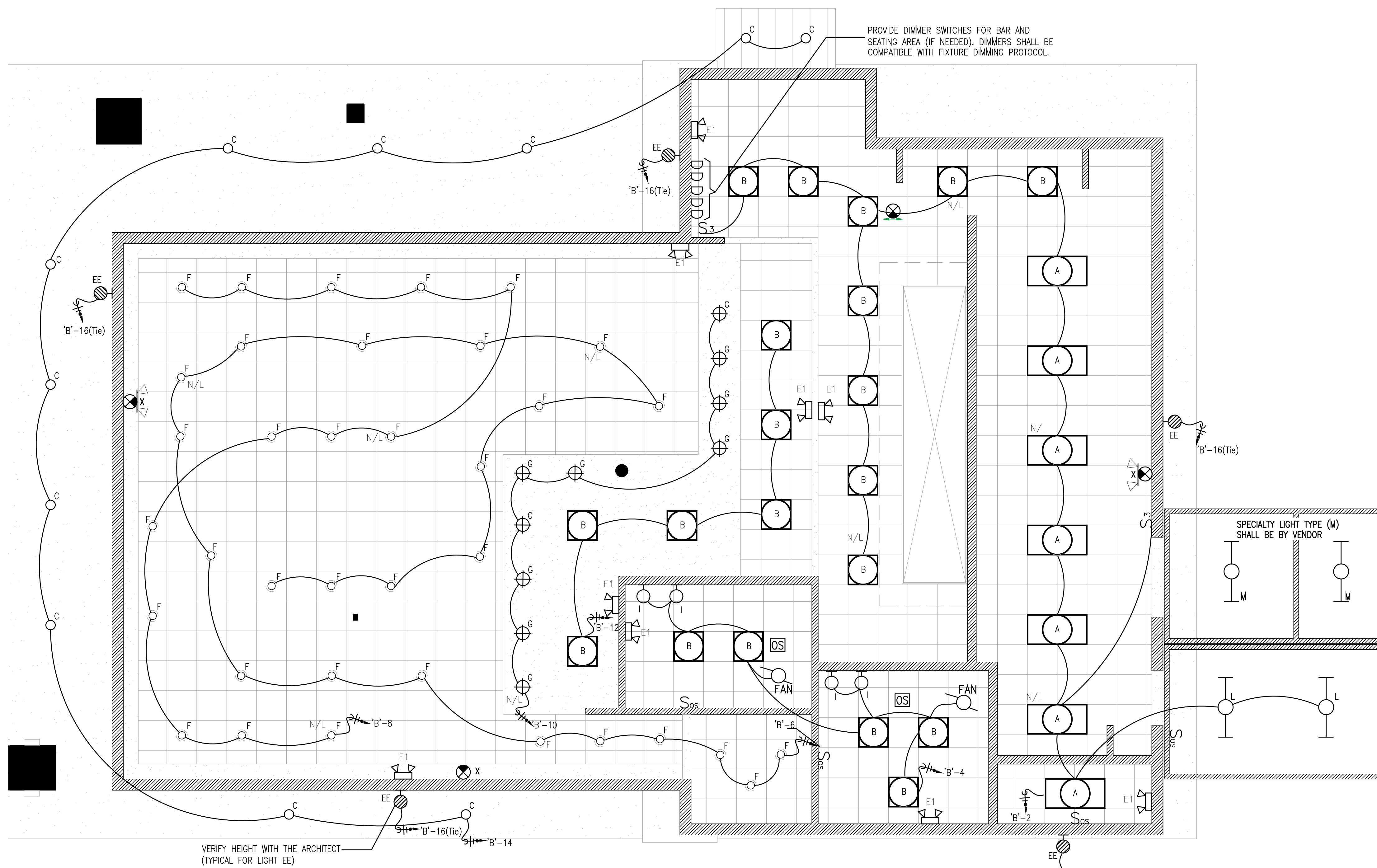
LIGHTING FIXTURES SCHEDULE							
TYPE	MFCTR.	CAT. #	DESCRIPTION	VOLTS	LAMP	WATTS	REMARKS
A	LITHONIA	2TL4-48L-A12-MVOLT-EZ1-LP830	RECESS MOUNTED LED W/3000K COLOR TEMP. 0-10V DIMMING. FIELD COORDINATE ALL MOUNTING REQUIREMENTS.	120V	LED	40W	UNIT COMPLETE W/DIMMING LED DRIVER
B	LITHONIA	2TL2-40L-A12-MVOLT-EZ1-LP830	RECESS MOUNTED LED W/3000K COLOR TEMP. 0-10V DIMMING. FIELD COORDINATE ALL MOUNTING REQUIREMENTS.	120V	LED	35W	UNIT COMPLETE W/DIMMING LED DRIVER
C	LITHONIA	L7XP R6	6" SHALLOW RECESSED DOWNLIGHT, FOR DAMP LOCATION, 30K/9CRI FINISHES BY ARCHITECT.	120V	LED	11.2W	UNIT COMPLETE W/DIMMING LED DRIVER
EE	ENVOY	DBEL-ACEM-FINISHES-PC	EGRESS LIGHT, MOUNT ABOVE DOOR ELEVATION. COLOR BY ARCHITECT.	120/277V	LED	6W	UNIT COMPLETE
E1	LITHONIA	ELM2	WALL MOUNT 7"-6" AFF OR AS NOTED. WHITE FINISH. FIELD AM.	120V	LED	2X5.4W	UNIT COMPLETE
F	PRESCOLITE	LITEBOX 'LBEB6A 7L 30K 9 WH	6" RECESS ADJUSTABLE LED DOWN LIGHT WITH 3000K. FIXTURE SHALL BE DARK SKY FRIENDLY, 2000 MAX. LUMEN SOURCE. PROVIDE ALL REQUIRED MOUNTING/WIRING ACCESSORIES.	120V	LED	10W	UNIT COMPLETE
I	KITCHLER LIGHTING	(SKU) 45583CH	JASPER 4 LIGHT HALOGEN WALL MOUNTED ABOVE MIRROR OVER LAVATORY. COORDINATE LAMPING WITH OWNER. FIELD COORDINATE ALL MOUNTING REQUIREMENTS.	120V	HAL GS	MAX 4X50W	UNIT COMPLETE
G	PROGRESS LIGHTING	P5143-0930K9	ONE LIGHT PENDANT WITH PRISMATIC GLASS SHADE, HUNG AT 7.5' ABOVE FINISHED FLOOR	120V	LED	9W	UNIT COMPLETE W/DIMMING LED DRIVER
L	LITHONIA	LBL4-3000LM-80CRI-30K-MVOLT	SURFACE MOUNTED LED UNIT WITH DIMMING DRIVE, 3000K,COLOR TEMP. PROVIDE ALL REQUIRED MOUNTING/WIRING ACCESSORIES.	120	LED	32W	UNIT COMPLETE W/DIMMING LED DRIVER
X	LITHONIA	LHQM-LED-G	UNIVERSAL MOUNT EXIT SIGN W/WHITE FINISH AND GREEN LED'S	MVOLT	--	3W	

LIGHTING FIXTURE GENERAL NOTES

- INSTALLATION OF LIGHT FIXTURES SHALL BE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODE REQUIREMENTS.
- CONTRACTOR SHALL VERIFY VOLTAGE, PHASE, FULL LOAD CURRENT AND EXACT LOCATIONS OF ALL ELECTRICAL EQUIPMENT BEFORE ROUGH-IN.
- LIGHT FIXTURES SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A MINIMUM OF ONE YEAR.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS.
- TENTING OF RECESSED FIXTURES (WHERE REQUIRED) IS BY THE GENERAL CONTRACTOR.

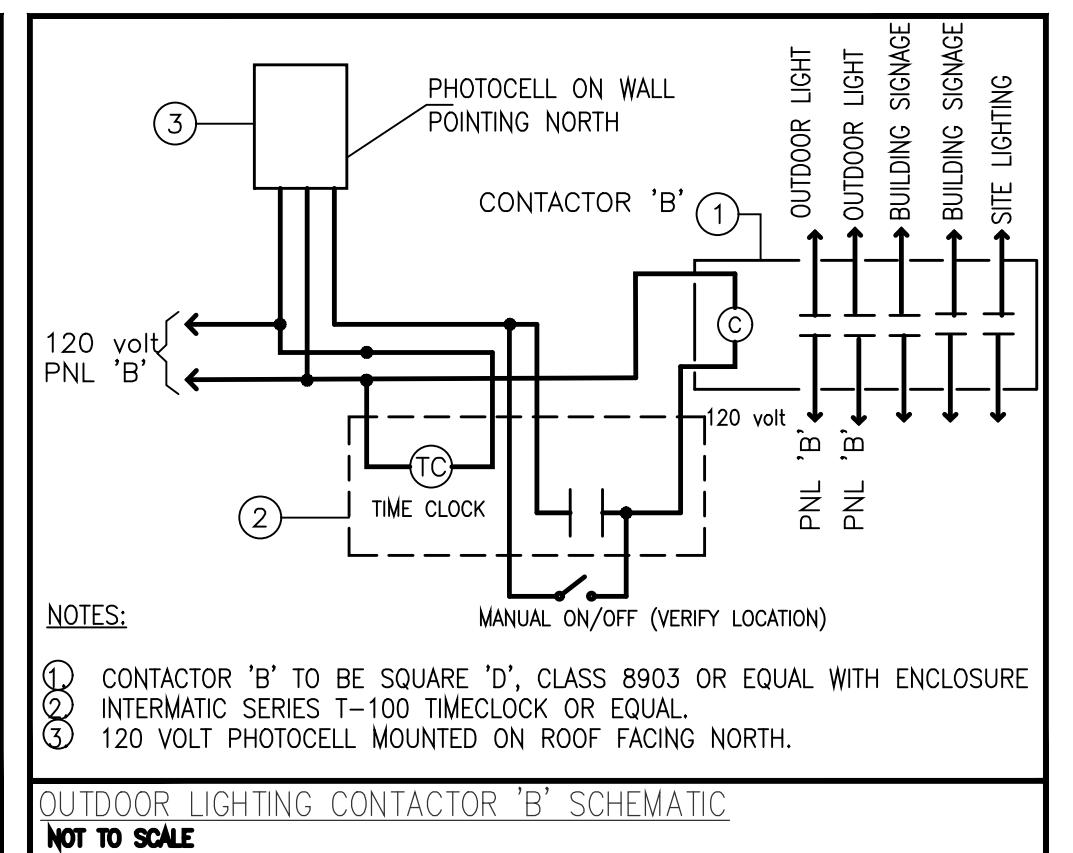
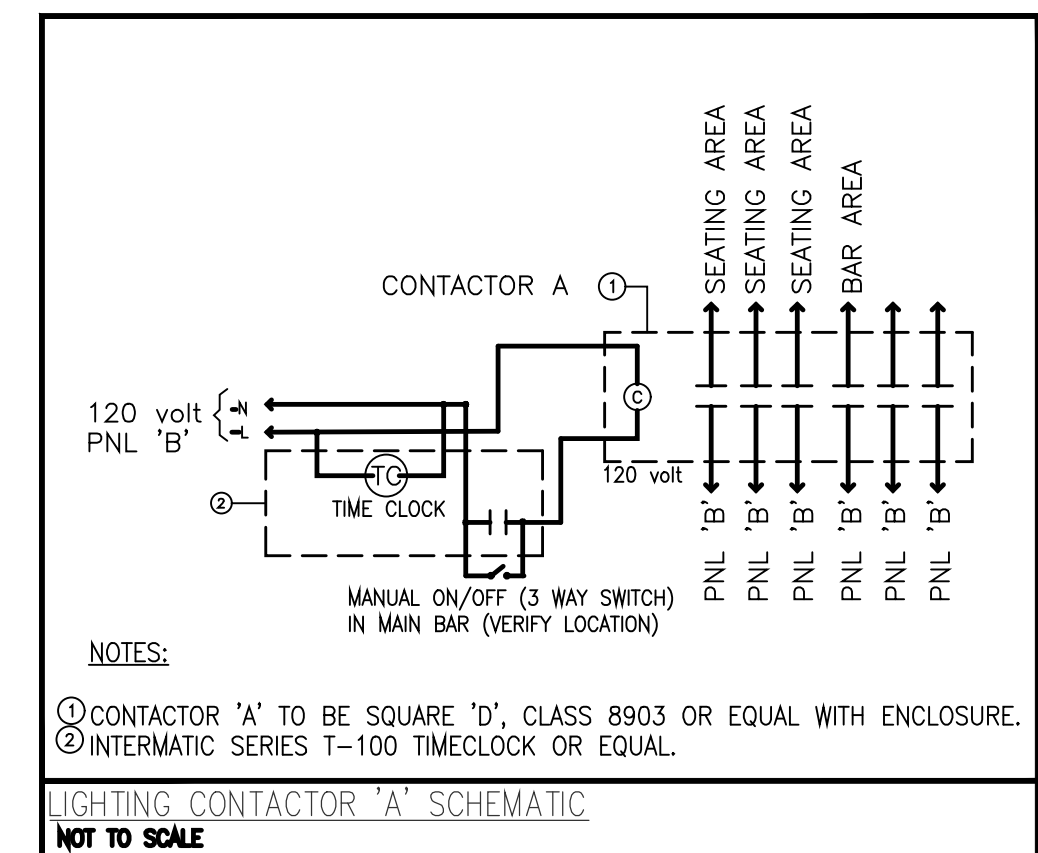
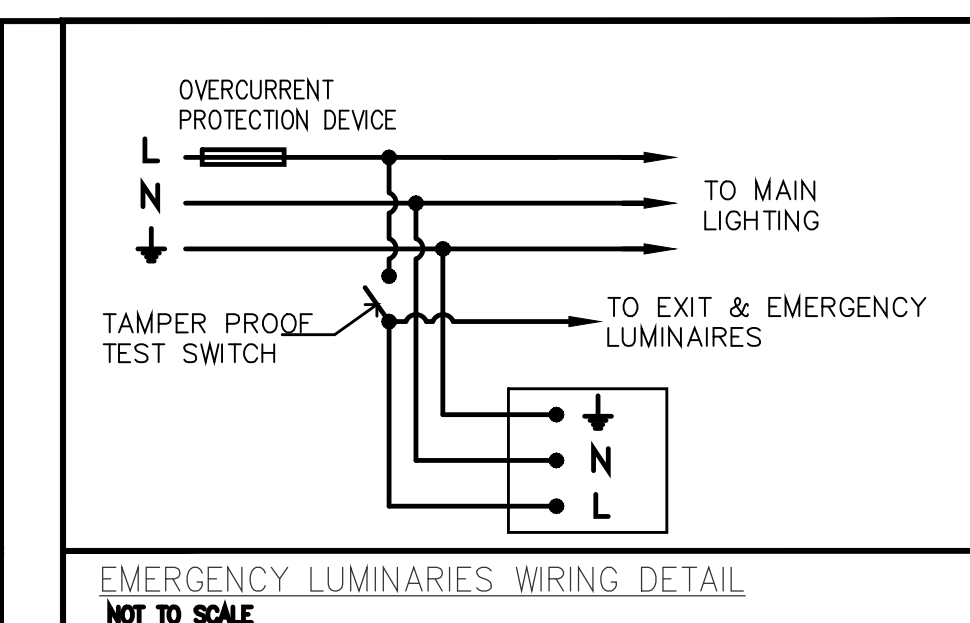
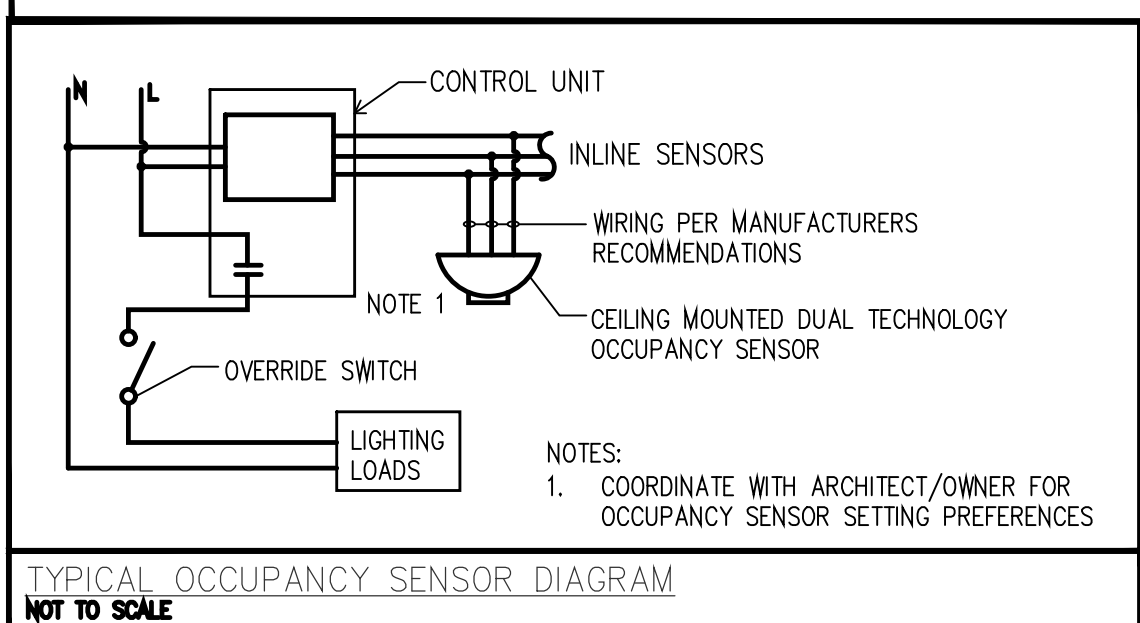
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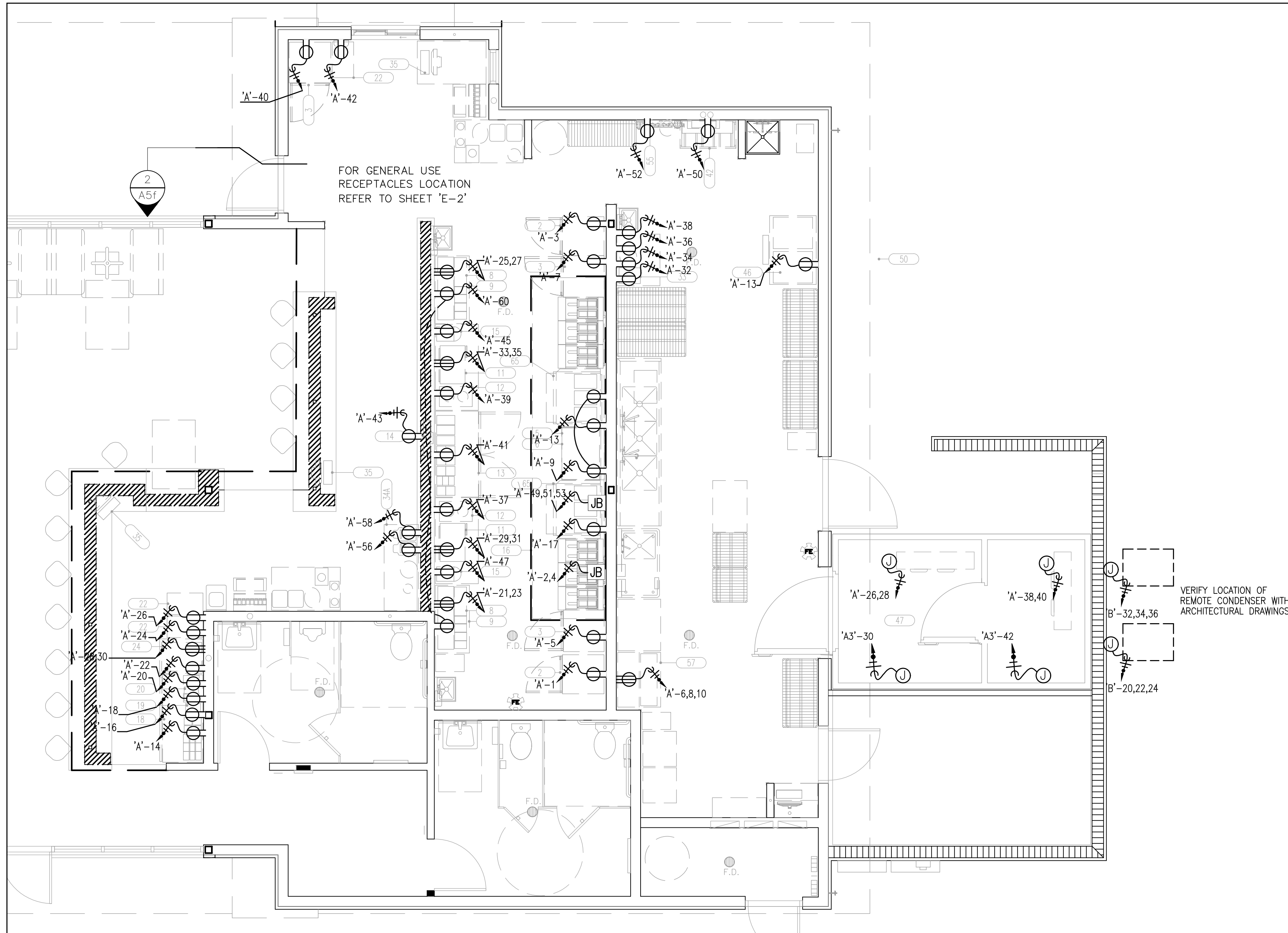
NORTH CAROLINA STATE BUILDING CODE 2018 - ENERGY CONSERVATION CODE C405.2.1 OCCUPANCY SENSORS NOTES:
 INSTALL WALL SWITCHES WITH OCCUPANCY SENSORS ON ALL ROOMS AND SPACES AS REQUIRED PER C405.2.1. SENSORS SHALL BE CAPABLE OF OCCUPANTS DETECTION AND AUTOMATICALLY TURN OFF IN 30 MINS ONCE THE OCCUPANT HAS LEFT THE AREA. ELECTRICAL AND MECHANICAL ROOMS SHALL HAVE MANUAL WALL SWITCHES.



ELECTRICAL GENERAL NOTES:

- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES.
- COORDINATE ALL LIGHTING WORK WITH ARCHITECT, OWNER, GENERAL CONTRACTOR AND ALL OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH WOULD REQUIRE ELECTRICAL WORK PRIOR TO BID AND ROUGH-IN.
- ALL EXIT LIGHTS, EMERGENCY LIGHT FIXTURES AND EMERGENCY BATTERY PACK UNIT SHALL BE CONNECTED TO UNSWITCHED LEG OF LOCAL LIGHTING BRANCH CIRCUIT IN ACCORDANCE WITH NEC 700.
- THE EMERGENCY LIGHTS ARE REQUIRED TO PROVIDE 1-FOOTCANDLE OF ILLUMINATION AT THE FLOOR ALONG THE EXIT PATHWAY. EC SHALL VERIFY THAT 1-FOOTCANDLE MINIMUM AT THE FLOOR IS ACHIEVED. EC SHALL ADJUST FIXTURES LOCATIONS AND PROVIDE ADDITIONAL FIXTURE(S) AS NEEDED TO ACHIEVE MINIMUM ILLUMINATION REQUIREMENTS PER NFPA 101, 7.8.1.
- CONTRACTOR TO VERIFY LOCATION OF ALL EMERGENCY FIXTURES WITH THE KITCHEN EQUIPMENT.





POWER GENERAL NOTES:

1. REFER TO THE APPROVED FOOD SERVICE EQUIPMENT SCHEDULE PLANS AND ELECTRICAL ROUGH-IN FLOOR FOR EXACT ELECTRICAL REQUIREMENTS AND ADDITIONAL INFORMATION.
2. REFER TO FINAL APPROVED EQUIPMENT SHOP DRAWINGS FOR EXACT NAMEPLATE RATING, EXACT LOCATIONS, ELECTRICAL REQUIREMENTS AND OTHER ADDITIONAL ELECTRICAL REQUIREMENTS PRIOR TO COMMENCING ANY WORK.
3. ALL DUPLEX RECEPTACLES IN KITCHEN AREAS SHALL BE GFI TYPE AND A MINIMUM OF 20A. THIS APPLIES TO EACH & EVERY DEVICE WHETHER OR NOT THE RECEPTACLES SERVED COUNTERTOP APPLIANCES.
4. ALL DUPLEX RECEPTACLES, SINGLE RECEPTACLES AND/OR SPECIAL PURPOSE RECEPTACLES SHALL MATCH EQUIPMENT PLUG/CORD. REFER TO FINAL APPROVED EQUIPMENT SHOP DRAWINGS AND COORDINATE WITH EQUIPMENT CONSULTANT/ CONTRACTOR PRIOR TO COMMENCING ANY WORK.
5. FIELD VERIFY IF NEUTRAL CONDUCTOR IS REQUIRED PRIOR TO ROUGH-IN.
6. REFER TO FINAL APPROVED EQUIPMENT SHOP DRAWINGS FOR EXACT WIRING INTERCONNECTION BETWEEN EQUIPMENT AND REMOTE COMPRESSOR UNITS.
7. PROVIDE LIQUIDIGHT (SEALTIGHT) FLEXIBLE HARDWARE CONNECTION TO ALL GAS EQUIPMENT PER MANUFACTURER INSTALLATION RECOMMENDATION.
8. COMPLY WITH THE NATIONAL ELECTRICAL CODES, GROUND FAULT EQUIPMENT PROTECTION MUST BE USED ON EACH HEATING CABLE BRANCH CIRCUIT.
9. ALL CONDUIT SHALL BE ROUTED OVERHEAD CONCEALED IN WALL AND CEILING, UNLESS OTHERWISE NOTED. PROVIDE 3/4" C MINIMUM IF BRANCH CIRCUIT CONDUITS ARE ROUTED UNDERGROUND. ADJUST CONDUIT SIZE FOR LARGER SIZE CONDUCTORS AS REQUIRED PER NEC.
10. FIELD VERIFY THE EXACT LOCATION AND MOUNTING HEIGHT OF ALL EQUIPMENT AND/OR DEVICES IN THIS AREA. ALL DEVICES MUST BE READILY ACCESSIBLE AS REQUIRED PER LOCAL AHJ. COORDINATE WITH MILLWORK/CASEWORK VENDOR, FOOD SERVICE EQUIPMENT AND OTHER TRADES PRIOR TO ROUGH-IN. REFER TO FINAL APPROVED ARCHITECTURAL AND FOOD SERVICE EQUIPMENT INTERIOR ELEVATION DRAWINGS PRIOR TO COMMENCING ANY WORK.

HOOD GENERAL NOTES:

1. THIS DRAWING SHALL BE USED AS AN INSTRUMENT OF REFERENCE BY ALL TRADES AND CONTRACTORS. ALL TRADES SHALL VERIFY THE INFORMATION AS SHOWN ON THESE PLANS.
2. ALL NATIONAL, STATE, AND LOCAL CODES SHALL APPLY.
3. ALL NECESSARY ELECTRICAL DISCONNECTS, SHUNT TRIP BREAKERS, AND STARTERS TO BE FURNISHED AND INSTALLED BY EC, UNLESS PROVIDED AS A STANDARD COMPONENT OF THE EQUIPMENT BY THE MANUFACTURER.
4. ALL ELECTRICAL ITEMS SUPPLIED UNDER EXHAUST HOOD- TO SHUT DOWN WITH SHUNT TRIP TIED IN TO HOOD SYSTEM.
5. KITCHEN HOOD SHALL BE WIRED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND/OR SHOP DRAWINGS.
6. STARTERS, RELAYS, HEATERS, AND SWITCHES REQUIRED FOR EXHAUST FAN ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

KITCHEN HOOD SEQUENCE OF OPERATION:

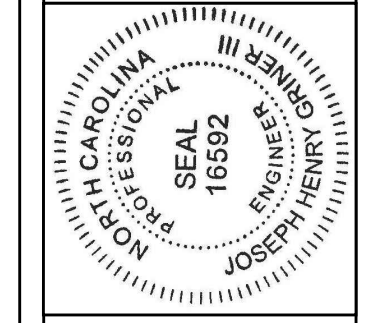
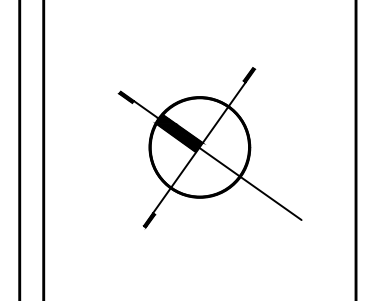
NORMAL: SUPPLY AND EXHAUST FANS ARE OPERATIONAL.
 UPON ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM, THE SUPPLY FAN SHALL BE "OFF" AND THE EXHAUST FAN SHALL BE "ON".
 PER NFPA 96 CH.8.2.3.1, A HOOD EXHAUST FAN SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUT DOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM

ITEM #	QTY.	MFG	MODEL #	DESCRIPTION	Volts	PH	RATED AMP	Hz	HP	Connection	NOTES
2	2	Serv-Ware	RF-1	1-Dr Freezer 27"W x 33"D x 82.3"H. 23 cu ft. 364 lbs.	115	1	11	60	5/8	5-15P	
3	3	Serv-Ware	SP 29-8	Prepbox 29"L x 30"D x 43.2"H. 7 cu. ft. 190 lbs.	115	1	5	60	1/4	5-15P	
5	2	Vulcan	MSA60	Grill. 60"W x 31.5" D x 15.25"H. 5 Burners. 650 lbs.	120	1	1	50/60		5-15P	
6	2	Serv-Ware	CB60	Chefbase 36"W x 26" H x 34.75"D 400 lbs.	115	1	6	60	1/4	5-15P	
8	2	Hatco	MPWS-45	Holding Cabinet. 45.4"W x 32"H x 24.8"D 170lbs.	120/208	1	14.2			L14-20P	
9	2	TRUE	TWT-48 / 675-103	Worktop (48" True TWT-48) 12 cu. ft. 48.5" D 280 lbs.	120	1			1/5		
11	2	Roundup	DFWF 250 (9100146)	Steamer 27"W x 17.25"D x 9.3"H 75 lbs.	208		15.9	50/60		6-20P (20A/250V)	Requires a water line and pressure regulator
12	2	Nemco	6065A-CW	Cooker/Warmer 14.75"W x 23.5"D x 10.5" H 19.1 lbs.	120	1	12.5			5-15P	
13	1	Serv-Ware	SP60-16	Prepbox 61"W x 30"D x 43.2" H. 330 lbs.	115	1	7	60	3/8	5-15P	
14	1	Select Electronics		Monitor & Bumpbar	115	1					Provided by Home Office
15	1	AFP	9/10/20189/10/2018	Cheese Warmer. 26"H x 10"W x 16"D 26lbs.	120	1		60		5-15P	Provided by Vendor
16	1	CaptiveAire	Hood w/ Ansul System	Hood System with Ansul System	220	1					
18	1	TRUE	TSSU 60-8	Prepbox 60.3"W x 43"H x 30.1"D 14 cu. ft. 330lbs.	115	1	7.8	60	1/3	5-15P	
19	2	Stoelting	Mix-In Blender	Mix-In Blender 7.5"W x 24"H x 10"D 22lbs.	115	1	2.1	60	3/4	5-15P	
20	2	Nemco	6120A-CW	Cooker/Warmer 18.5" W x 10.3"D x 10" H 13.5lbs.	120	1	8.3			5-15P	
22	2	Excellence Industries	FT-4	Dipping Cabinet 25"W x 15"D x 38.25"H 2.8Cu.Ft. 80 lbs.	115	1	1.4	60	1/8	5-15P	
24	1	Stoelting	CF-101	Frozen Custard Machine 37"H x 19.5"W x 28"D 310 lbs.	208-240	1		60	1.5	6-20P (20A/250V)	
33	4	Bunn	ITCB	Coffee/Tea Brewer	120	1	14	60		5-15P	
35	2	SAM-4S	SPT-7000	POS Terminal Systems 14"W x 17"H x 12"D 30 lbs.	100-240	1	0.37	50/60		5-15P	Provided by Home Office
42	1	Pepsi	Taprite Fassco	Modular BiB Rack 31" H x 40"W x 19.75"D	120	1					Provided by Vendor
46	1	Hoshizaki	F-801MAH & B-800SF	Ice Machine w/Flaker Head/800lb Bin 48"W x 32"D x 71" H 805 l	115-120	1	20	60		5-15P	
47	1	Norlake	Fast Track	Outside Walk-in Cooler/ Freezer		1					* Not Shown on Drawings
48	1	Serv-Ware	RR-3	3-Door Cooler (Optional) 82"H x 55"W x 33"D 72 cu. ft.	115	1	10	60		5-15P	
49	2	Serv-Ware	RF-3	3-Door Freezer (Optional) 82"H x 55"W x 33"D 72 cu. ft.	115	1	10	60		5-20P	
53	1			Walk-in Cooler/Freezer							
55	1			Water Filtration System							
57	1	Blodgett	SHO-100-E	Convection Oven	208	3	31/29/29	60			RUN 4 #8, 1 #10 GE IN 1" C
61	2	Waring	WW180	Waffle Maker	120	1	10				
65	2	Taylor	L-810	Electric 2-Sided Grill	240	3	33(2)	60			RUN 4 #8, 1 #10 GE IN 1" C

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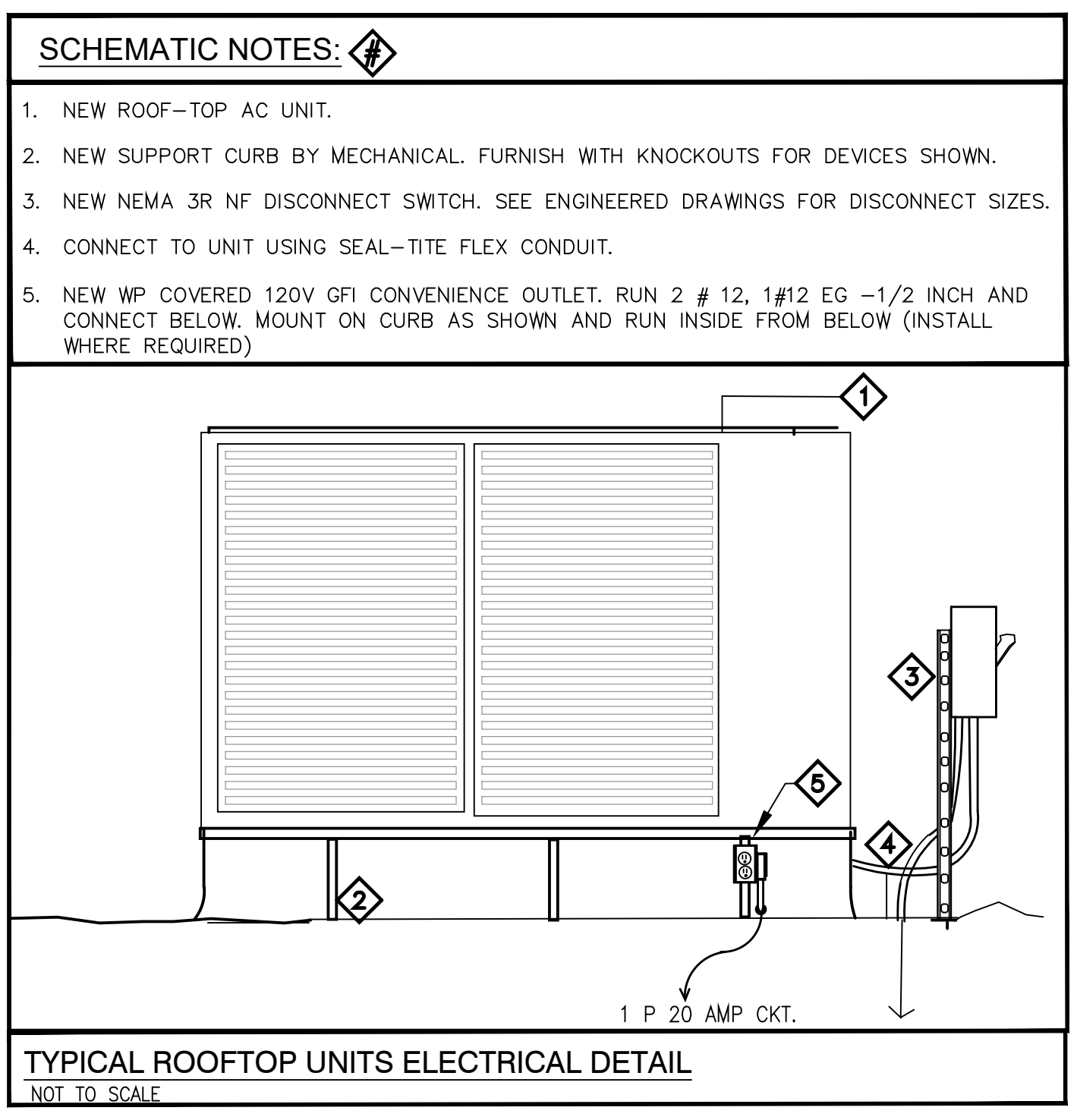
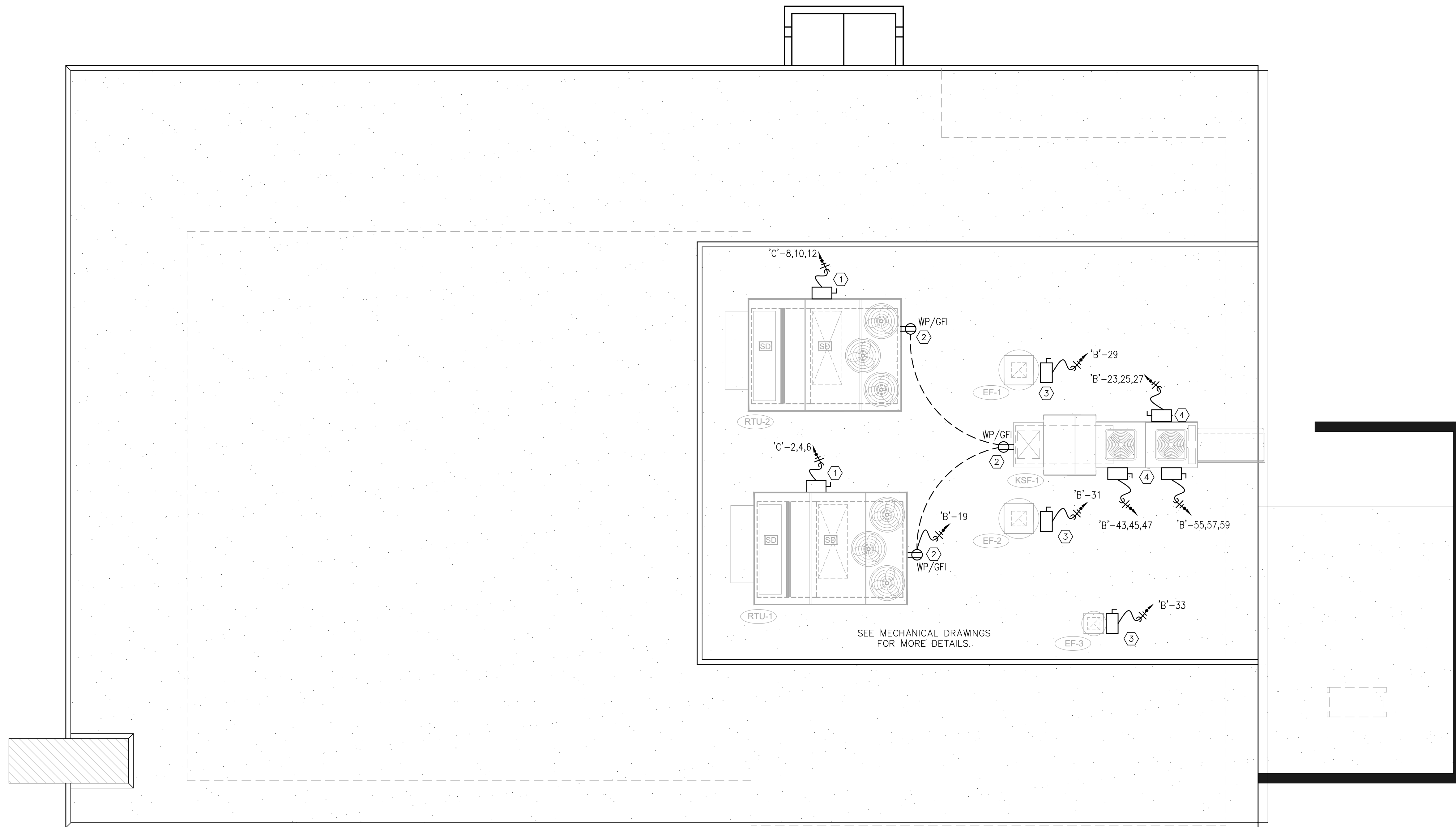
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 License: PE16592

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Date: 02/24/20
 Drawn: JAR
 Designed: JAR
 EOR: JHG
 Job no.: 20023

Highway 55
BURGERS SHAKES FRIES
 NORTH MAIN STREET (HWY 210)
 Lillington, Harnett County, N.C.

Date: 1. 24. 20
 Scale: AS NOTED
 Project Mgr: DG
 Drawn: HH
 Job: 19-142
 Sheet
E-3



- POWER GENERAL NOTES:**
1. ELECTRICAL CONTRACTOR TO VERIFY EXISTING CONDITIONS AND TO REPORT TO GENERAL CONTRACTOR, OWNER AND ENGINEER ANY DISCREPANCY FROM THAT SHOWN ON DRAWINGS.
 2. COORDINATE ALL NEW ELECTRICAL WORK WITH MECHANICAL CONTRACTOR AND OWNER.
 3. PANELS ARE REQUIRED TO HAVE A PANELBOARD NAMEPLATE PER NEC 408.4(B) SEE TYPICAL PANELBOARD NAMEPLATE DETAILS.
 4. FOR SPECIFIC EQUIPMENT LOCATIONS, REFER TO CIVIL DRAWINGS.
 5. ALL ELECTRICAL RUNS SHALL BE NO LEE'S THAN AWG #12 COPPER CONDUCTORS, UNLESS OTHERWISE NOTED.
 6. ALL THE ROOF EQUIPMENT NEEDS MOTOR STARTER SHALL BE PROVIDED BY MECHANICAL AND INSTALLED BY ELECTRICAL CONTRACTOR (WHERE APPLICABLE).

- ROOF CONDUIT GENERAL NOTE**
1. CONDUITS INTENDED TO BE RUN AT ROOF TOP LEVEL SHALL BE SUPPORTED AT LEAST 4 INCHES FROM THE ROOF LEVEL. SUPPORTS SHALL BE SPACED AT 10 FEET MINIMUM, AND CONDUIT MATERIAL SHALL BE GALVANIZED CONDUIT OR PVC WITH UV PROTECTIVE COVER.

- ELECTRICAL KEY NOTES:** ⬡
1. FURNISH AND INSTALL NEW 100A 3P NEMA 3R FUSIBLE DISCONNECT FOR RTU UNITS FURNISHED BY MECHANICAL. RUN NEW 4 #3, 1 #6 EG-1-1/4" AND CONNECT TO UNIT VIA FLEX CONDUIT.
 2. NEW 20A DUPLEX GFI CONVENIENCE OUTLET (TYPICAL). RUN NEW 2# 12, 1# 12 EG -1/2" DOWN TO PANEL 'B' AND CONNECT.
 3. FURNISH AND INSTALL NEW 30A 1P NEMA 3R FUSIBLE DISCONNECT FOR 'EF-1', 'EF-2' & 'EF-3' UNIT FURNISHED BY MECHANICAL. RUN NEW 3 #10 EG-3/4" AND CONNECT TO UNIT VIA FLEX CONDUIT.
 4. FURNISH AND INSTALL NEW 30A 3P NEMA 3R FUSIBLE DISCONNECT FOR 'KSF-1', 'MUA-1' CONDENSER UNIT FURNISHED BY MECHANICAL. RUN NEW 4 #10, 1 #10 EG-1" AND CONNECT TO UNIT VIA FLEX CONDUIT.

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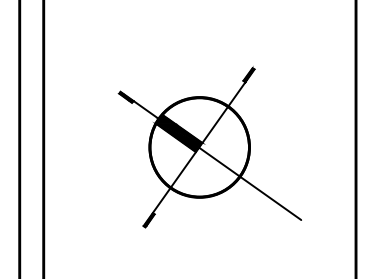
Highway 55
BURGERS SHAKES FRIES
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Lillington, Harnett County, N.C.

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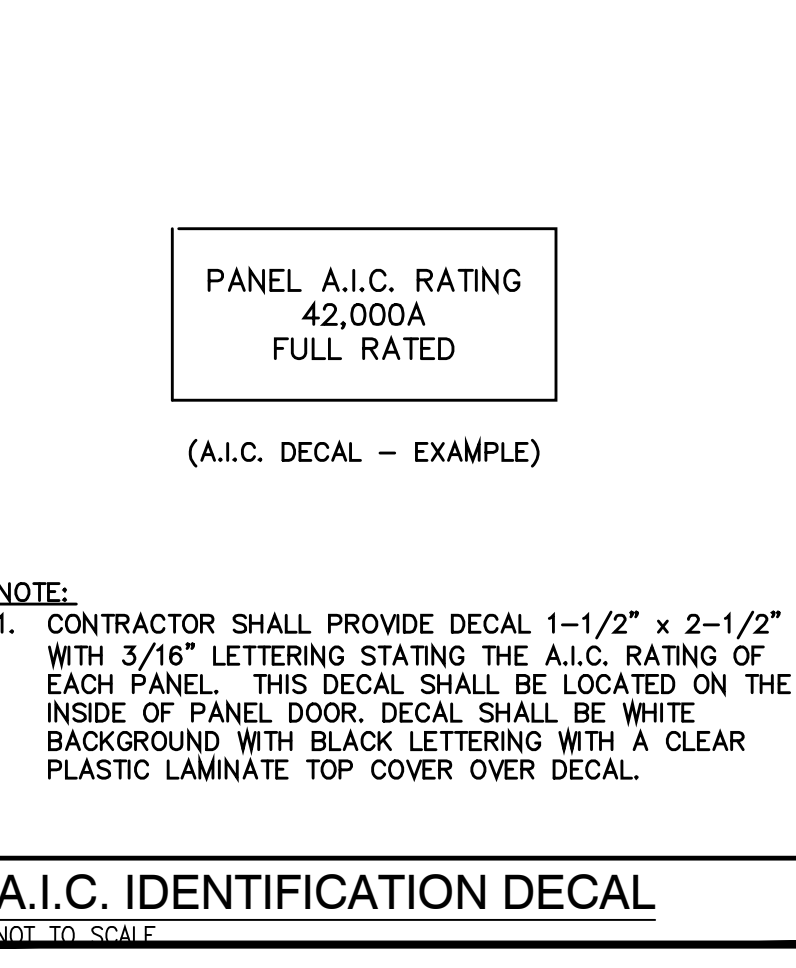
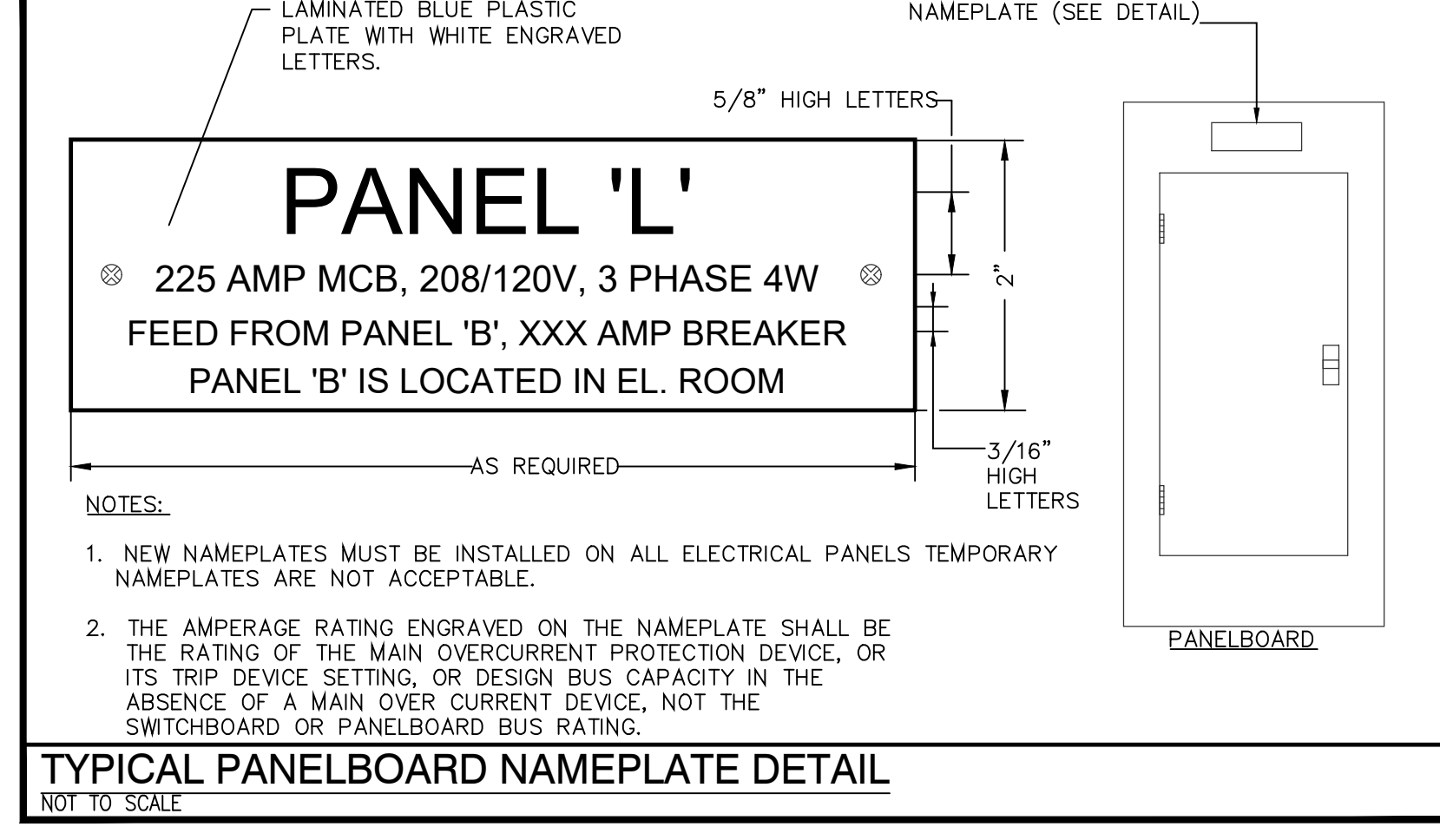


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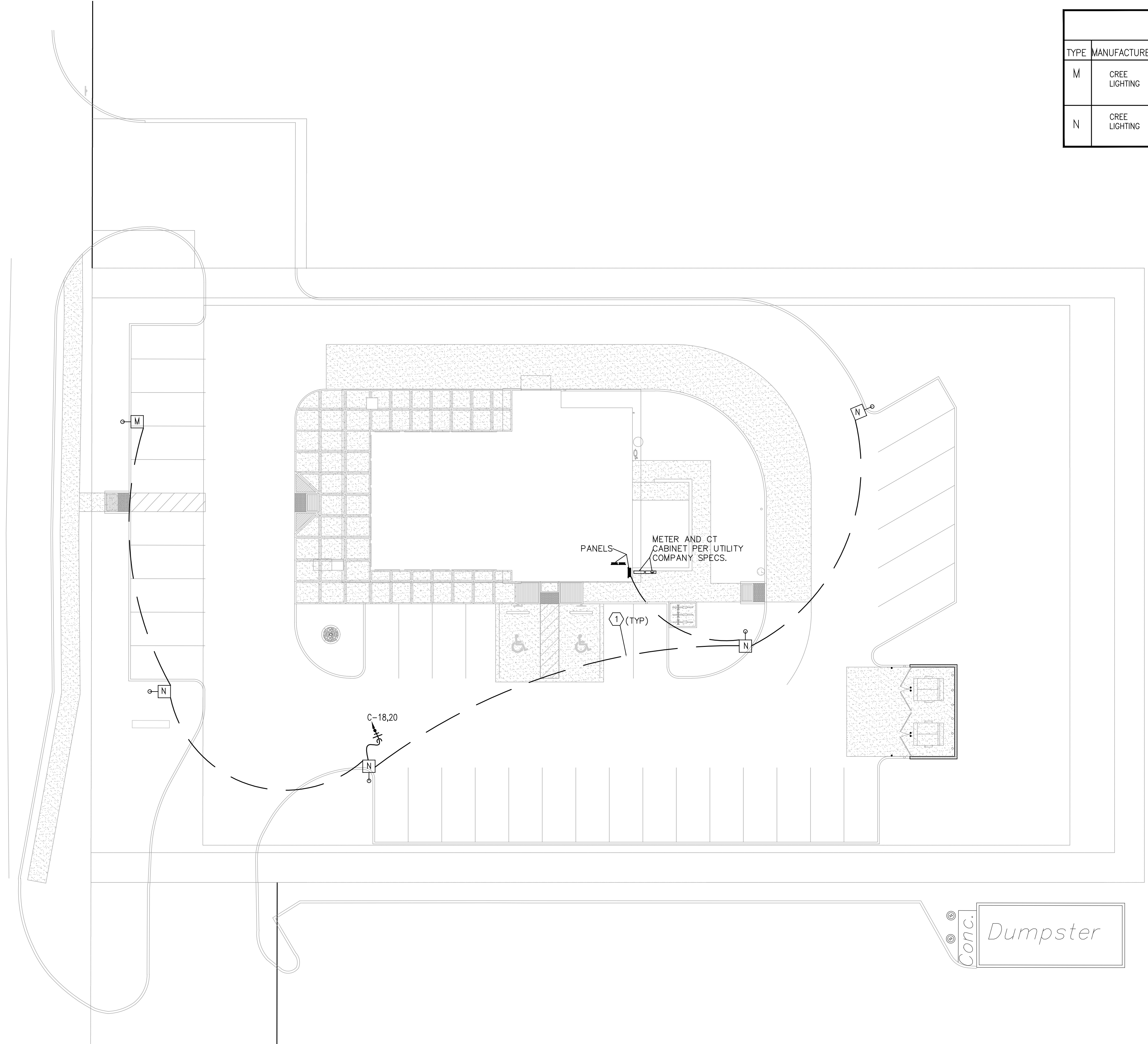
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NEW PANEL 'A'		SURFACE MOUNTED 120/208 VOLT 3 PHASE 4 WIRE WITH GROUND				400 MLO 120/208, 75C ⁺ 42,000 AIC							
WIRE SIZE	COND. TYPE	LOAD TYPE	CKT. NO.	DESCRIPTION	BREAKER TRIP POLE VOLT	A	B	C	DESCRIPTION	CKT. NO.	LOAD TYPE	COND. TYPE	WIRE SIZE
C	1	(2) 1-DR FREEZER	20	1	120	1265	1500		(16) HOOD SYSTEM WITH ANSUL	2	M		
M	3	(2) 1-DR FREEZER	20	1	120		1265	1500	(57) CONVECTION OVEN	4	M		
M	5	(3) PREPBOX	20	1	120		575	3720	SPACE ALLO. SHUNT TRIP	12	M		
M	7	(3) PREPBOX	20	1	120				(18) PREPBOX	14	M		
M	9	(5) GAS GRILL BURNER	20(*)	1	120		360	3720	(19) MIX-IN BLENDER	16	M		
M	11	SPACE ALLO. SHUNT TRIP	20(*)	1	120				(20) COOKER /WARMER	18	M		
M	13	(6) CHEFBASE	20(*)	1	120	690	900		(21) MIX-IN BLENDER	20	M		
M	15	SPACE ALLO. SHUNT TRIP	20(*)	1	120		250		(22) COOKER /WARMER	22	M		
M	17	(6) CHEFBASE	20(*)	1	120			690	(23) DIPPING CABINET	24	M		
M	19	SPACE ALLO. SHUNT TRIP	20(*)	1	120		996		(24) FROZEN CUSTARD MACHINE	26	M		
M	21	(8) HOLDING CABINET	20	2	208		1500	996	(33) COFFEE/TEA BREWER	32	M		
M	23	(8) HOLDING CABINET	20	2	208		1500	168	(35) COFFEE/TEA BREWER	34	M		
M	25	(8) HOLDING CABINET	20	2	208		1500	1200	(35) POS	36	M		
M	29	(11) STEAMER	20	2	208		1650	1200	(35) POS	38	M		
M	31	(11) STEAMER	20	2	208		1650	1700	(3) PREPBOX	40	M		
M	33	(11) STEAMER	20	2	208		1650	1700	(22) DIPPING CABINET	42	M		
M	35	(14) MONTR & BUMPBAR	20	1	120		180	180	(35) COFFEE/TEA BREWER	44	M		
M	37	(12) COOKER/WARMER	20	1	120		1500	1700	(35) COFFEE/TEA BREWER	46	M		
M	39	(12) COOKER/WARMER	20	1	120		1500	575	(9) WORK TOP	48	M		
M	41	(13) PREPBOX	20	1	120				(42) MODULAR BIB RACK	50	M		
M	43	(14) MONTR & BUMPBAR	20	1	120		180	180	(55) WATER FILT SYSTEM	54	M		
M	45	(15) CHEESE WARMER	20	1	120		180	180	(46) ICE MACHINE	56	M		
M	47	(15) CHEESE WARMER	20	1	120		180	180	(61) WAFFLE MAKER	58	M		
M	49	(65)ELECTRIC 2-SLIDE GRILL	50(*)	3	208	9000	180		(61) WAFFLE MAKER	60	M		
M	51	SPACE ALLO. SHUNT TRIP	20	1	120				(9) WORK TOP	62	M		
M	53	SPACE ALLO. SHUNT TRIP	20	1	120					64	M		
M	55	SPACE ALLO. SHUNT TRIP	20	1	120					66	M		
M	57	SPACE ALLO. SHUNT TRIP	20	1	120					68	M		
M	59	SPACE ALLO. SHUNT TRIP	20	1	120					70	M		
M	61	SPACE ALLO. SHUNT TRIP	20	1	120					72	M		
M	63	SPACE ALLO. SHUNT TRIP	20	1	120								
M	65	SPACE ALLO. SHUNT TRIP	20	1	120								
M	67	SPACE ALLO. SHUNT TRIP	20	1	120								
M	69	SPACE ALLO. SHUNT TRIP	20	1	120								
M	71	SPACE ALLO. SHUNT TRIP	20	1	120								
CONNECTED VA						28604	28456	24816					
CONNECTED PHASE AMPS						238	237	207					
LOAD TYPE						CONNECTED	NEC DEMAND	DEMAND	LOAD				
L	LIGHTING					0	1.25	0	0	VA			
R	RECEPTACLES					0	1	0	0	VA			
AC	AIR CONDITIONING					0	0	0	0	VA			
H	HEATING					0	0	0	0	VA			
M	MISC. NON-CONTINUOUS					79346	1	79346	0	VA			
C	CONTINUOUS					2530	1.25	3162.5	0	VA			
K	KITCHEN					0	0.65	0	0	VA			
						TOTAL		82509	MA				
						120/208V, 3 PHASE		255	AMPS	0.90 P.F. CORRECTION			

NEW PANEL 'B'		SURFACE MOUNTED 120/208 VOLT 3 PHASE 4 WIRE WITH GROUND				400 MLO 120/208, 75C ⁺ 42,000 AIC							
WIRE SIZE	COND. TYPE	LOAD TYPE	CKT. NO.	DESCRIPTION	BREAKER TRIP POLE VOLT	A	B	C	DESCRIPTION	CKT. NO.	LOAD TYPE	COND. TYPE	WIRE SIZE
R	1	SEATING AREA RECEPTACLE	20	1	120	900	800		KITCHEN LIGHTING	2	L		
R	3	SEATING AREA RECEPTACLE	20	1	120		900	500	RESTROOM LIGHT/EX. FAN	4	L		
R	5	SEATING AREA RECEPTACLE	20	1	120			1080	SEATING ROOM LIGHT	6	L		
R	7	SEATING AREA RECEPTACLE	20	1	120	900	200		SEATING ROOM LIGHT	8	L		
R	9	BAR RECEPTACLES	20	1	120		900	300	SEATING ROOM LIGHT	10	L		
R	11	RESTROOM GF RECEPTACLES	20	1	120		360	300	BAR LIGHTS	12	L		
R	13	OUTSIDE GF RECEPTACLES	20	1	120	940	100		EXTERIOR LIGHTING LIGHTS	14	L		
R	15	OUTSIDE GF RECEPTACLES	20	1	120		720	500	EXTERIOR LIGHTING LIGHTS	16	L		
R	17	KITCHEN GENERAL RECEPT	20	1	120		900		SPARE	18	L		
R	19	ROOF GF RECEPTACLES	20	1	120			600		20	C		
R	21	SPARE	20	1	120				W.I. COOLER COMPRESSOR (#)	22	C		
AC	25		20	3	208	750	300		W.I. COOLER COMPRESSOR (#)	24	C		
AC	27	KMUA-1	20	3	208	750	300		W.I. COOLER EVAP.	26	C		
AC	29	EF-1	20	1	120			1200	W.I. COOLER MISC & LIGHT	30	M		
AC	31	EF-2	20	1	120			25	W.I. FREEZER COMPRESSOR (#)	32	C		
AC	33	EF-3	20	1	120			9000	W.I. FREEZER COMPRESSOR (#)	34	C		
M	35		80	3	208	9000	300		W.I. FREEZER EVAP.	38	C		
M	37		80	3	208	9000	300		W.I. FREEZER EVAP.	40	C		
M	39		80	3	208	9000	300		W.I. FREEZER MISC & LIGHT	44	C		
H	43	RECIRCULATING PUMP	20	1	120		2570	900	CEILING RECP	42	M		
H	45		30	3	208		2570	900	CEILING RECP	46	R		
H	47	KMUA-1 (CONDENSER-1)	30	3	208		2570	900	CEILING RECP	48	R		
M	49	RESTROOM SENSOR OUTLET	20	1	120	100	360		ORDER BOARD RECP	50	R		
R	51	DATA RACK	20	1	120		360	1200	BUILDING SIGNAGE	52	L		
R	53	DATA RACK	20	1	120		360	1200	BUILDING SIGNAGE	54	L		
H	55		20	1	120	1741			SPARE	56	M		
H	57		20	1	120		1741		SPARE	58	M		
H	59		20	1	120			1741	SPARE	60	M		
M	61	SPARE	20	1	120				SPARE	62	M		
M	63	SPARE	20	1	120				SPARE	64	M		
M	65	SPARE	20	1	120				SPARE	66	M		
M	67	SPARE	20	1	120				SPARE	68	M		
M	69	SPARE	20	1	120				SPARE	70	M		
M	71	SPARE	20	1	120				SPARE	72	M		
CONNECTED VA						21261	22166	22261					
CONNECTED PHASE AMPS						177	186	186					
LOAD TYPE						CONNECTED	NEC DEMAND	DEMAND	LOAD				
L	LIGHTING					5300	1.25	6625	VA				
R	RECEPTACLES					10980	1	10490	VA				
AC	AIR CONDITIONING					4875	0	0	VA				
H	HEATING					12953	1	12953	VA				
M	MISC. NON-CONTINUOUS					27600	1	27600	VA				
C	CONTINUOUS					4200	1.25	5250	VA				
K	KITCHEN					0	0.65	0	VA				
						TOTAL		62898	VA				
						120/208V, 3 PHASE		184	AMPS	0.95 P.F. CORRECTION			



NEW PANEL 'C'		SURFACE MOUNTED 120/208 VOLT 3 PHASE 4 WIRE WITH GROUND				800 MCB 120/208, 75C ⁺ 42,000 AIC							
WIRE SIZE	COND. TYPE	LOAD TYPE	CKT. NO.	DESCRIPTION	BREAKER TRIP POLE VOLT	A	B	C	DESCRIPTION	CKT. NO.	LOAD TYPE	COND. TYPE	WIRE SIZE
M	1	PANEL 'A'	300	3	208	27503	9823		RTU-1	2	AC		
M	3	PANEL 'A'	300	3	208	27503	9823		RTU-1	4	AC		
M	5	PANEL 'A'	300	3	208	27503	9823		RTU-1	6	AC		
M	7	PANEL 'A'	300	3	208	20966	9823		RTU-2	8	AC		
M	9	PANEL 'A'	300	3	208	20966	9823		RTU-2	10	AC		
M	11	PANEL 'A'	300	3	208	20966	9823		RTU-2	12	AC		
M	13	SPARE	100	3	208		150		20 EXTERIOR & GROUND LGTS	14	L		
M	15	SPARE	100	3	208		1200		20 DIRECTIONAL SIGN	16	L		
M	17	SPARE	100	3	208		375		20 SITE LIGHTING	18	L		
M	19	SPARE	100	3	208				20 SITE LIGHTING	20	L		
M	21	SPARE	100	3	208				20 SITE LIGHTING	22	L		
M	23	SPARE	100	3	208				20 SITE LIGHTING	24	L		
M	25	SPARE	100	3	208				20 SITE LIGHTING	26	L		
M	27	SPARE	100	3	208				20 SITE LIGHTING	28	L		
M	29	SPARE	100	3	208				20 SITE LIGHTING	30	L		
M</													



SITE LIGHTING SCHEDULE								
TYPE	MANUFACTURER	QUANTITY	LABEL	ARRANGEMENT	LMF	LUM. LUMENS	LUM.WATTS	PART NUMBER
M	CREE LIGHTING	1	P1 B Q9	SINGLE	0.990	7207	58	OSQ-A-NM-4ME-T-57K-UL-BZ-Q9_w_OSQ-B-AABZ & OSQ-BLSLF SET @ Q1
N	CREE LIGHTING	4	P1 B	SINGLE	0.990	17159	166	OSQ-A-NM-4ME-T-57K-UL-BZ_w_OSQ-B-AABZ & OSQ-BLSLF

BRANCH CIRCUIT VOLTAGE DROP FOR SITE LIGHTING

- ESTIMATED VOLTAGE DROP FOR SITE LIGHTING IS 1.5% (BASED ON THE TOTAL DISTANCE MEASURED 208 V, 1 PHASE).

ELECTRICAL KEY NOTES:

- RUN NEW 3# 12, 1# 12 EG-1" IN 3/4" CONDUIT AND CONNECT AS SHOWN. (208V, 1 PHASE).

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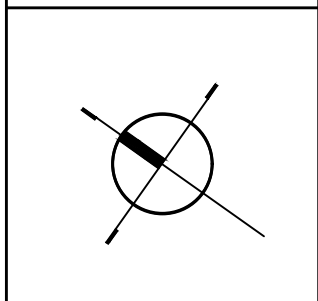
Highway 55
BURGERS SHAKES FRIES
NORTH MAIN STREET (HWY 210)
Lillington, Harnett County, N.C.

Date: 1. 24. 20
Scale: AS NOTED
Project Mgr: DG
Drawn:
Job: 19-142
Sheet
E-6

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PROFESSIONAL ENGINEER III
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ELECTRICAL SPECIFICATION:

INTRODUCTION:

A. THE WORK, APPARATUS AND MATERIALS WHICH SHALL BE FURNISHED UNDER THESE SPECIFICATIONS AND ACCOMPANYING DRAWINGS SHALL INCLUDE ALL ITEMS SPECIFIED HEREINAFTER AND SHOWN ON THE DRAWINGS...

B. THE CONTRACTOR SHALL EXTEND THE SERVICE FROM THE POINT OF SERVICE ATTACHMENT FURNISHING ALL PROTECTIVE DEVICES, CONDUCTORS, SUPPORTS, RACEWAYS, ETC. TO PROVIDE COMPLETE INTERIOR ELECTRICAL SYSTEMS TO SERVE MOTOR LOADS, LIGHTING LOADS AND MISCELLANEOUS ELECTRICAL LOADS...

C. VERIFY CONDITIONS AT THE FIELD PRIOR TO PRICING THE JOB. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND EXISTING CONDITIONS.

D. CONTRACTOR SHALL COORDINATE THE EXACT MOUNTING HEIGHTS AND/OR LOCATIONS OF ALL LIGHTING FIXTURE SWITCHES, OUTLETS AND WIRING DEVICES AND SHALL PERFORM ALL WORK NOTED ON PLANS, IN NOTES OR IN DETAILS RELATED TO THE INSTALLATION...

E. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEE INSPECTIONS AND TESTING.

F. ALL REQUIRED INSURANCE TO BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR DURATION OF THE WORK.

G. ELECTRICAL INSTALLATION TO MEET ALL STANDARD REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANIES. ELECTRICAL CONTRACTOR SHALL CONTACT LOCAL POWER AND TELEPHONE COMPANY PRIOR TO BID AND START OF CONSTRUCTION.

ELECTRICAL CODES

A. THE WORK UNDER THE REQUIREMENTS OF THESE SPECIFICATIONS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. THE INSTALLATION SHALL ALSO COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS OF LOCAL AND STATE LAWS AND ORDINANCES.

INTERFERENCES

A. THE PLANS ARE GENERALLY DIAGRAMMATIC AND THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE DIFFERENT TRADES SO THAT INTERFERENCES BETWEEN CONDUITS, PIPING, EQUIPMENT, ARCHITECTURAL AND STRUCTURAL WORK WILL BE AVOIDED...

MATERIALS

A. IN GENERAL, MATERIALS AND APPARATUS SHALL COMPLY WITH ALL APPLICABLE TESTS, RATINGS, SPECIFICATIONS, AND REQUIREMENTS OF THE IEEE AND NEMA AND SHALL BEAR THE APPROVED DEVICE LABEL OF THE UNDERWRITERS' LABORATORIES, INC. OR OTHER TESTING LABORATORY APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SUBMIT A LIST OF PRINCIPAL MATERIAL ITEMS, GIVING MANUFACTURER'S NAMES AND CATALOG NUMBERS. APPROVAL OF THE LIST SHALL BE OBTAINED FROM THE OWNER BEFORE ORDERS ARE PLACED.

GUARANTEE

A. CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF COMPLETION. CONTRACTOR SHALL RECTIFY ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THEREFROM WITHIN SAID PERIOD.

IDENTIFICATION OF EQUIPMENT

A. IDENTIFICATION OF EQUIPMENT SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT INSTALLED BY THE CONTRACTOR. ENGRAVED LAMINATED NAMEPLATES SHALL BE PROVIDED AND IDENTIFICATION SHALL CLEARLY DESCRIBE THE EQUIPMENT AND FUNCTION...

B. INSTALL LABEL TAGS ON ALL WIRE AND CABLE IN JUNCTION BOXES, WIREWAYS AND WIRING GUTTERS OF PANELS. TAGS SHALL IDENTIFY WIRE OR CABLE CIRCUIT NUMBER AND/OR EQUIPMENT SERVED AS SHOWN ON DRAWINGS.

C. ALL JUNCTION BOXES TO BE DESIGNATED WITH PERMANENT MARKER INDICATING PANELBOARD AND CIRCUIT NUMBERS OF BRANCH CIRCUIT WIRING CONTAINED WITHIN.

D. PANELBOARD DIRECTORIES SHALL BE UPDATED/TYPEWRITTEN WITH ACCURATE AND CURRENT INFORMATION BY THE CONTRACTOR AT THE END OF CONSTRUCTION. DIRECTORIES SHALL REFLECT EXISTING UNCHANGED AND NEW RECORD CONDITIONS AND INCLUDE CIRCUIT NUMBER, TENANT NAME, TYPE AND LOCATION OF LOAD.

RACEWAYS AND FITTINGS

A. HOMERUNS SHALL BE A MINIMUM SIZE OF HALF-INCH (1/2"), UNLESS OTHERWISE SPECIFIED. PROVIDE A MINIMUM OF HALF-INCH (1/2") FOR FLEXIBLE CONNECTIONS TO EQUIPMENT.

B. UNDERGROUND INSTALLATIONS:

- 1. USE THICKWALL NONMETALLIC CONDUIT, SCHEDULE 40 PVC.
2. IN OR UNDER SLAB-ON-GRADE: USE SCHEDULE 40 PVC OR GRAY HDPE PIPE, PER NEC REQUIREMENTS.
3. MINIMUM SIZE: 3/4".
4. INSTALL RIGID STEEL, LONG RADIUS ELBOWS FOR CONDUITS LARGER THAN ONE INCH (1").
5. UNDER SLAB CONDUIT OR Poured-IN CONCRETE CONDUIT SHALL BE PAINTED WITH A COAT OF BITUMASTIC.

C. OUTDOOR LOCATIONS, ABOVE GRADE: USE RIGID AND LIQUDTIGHT FLEXIBLE METAL CONDUIT WITH ENHANCED CORROSION. PROVIDE COMPLETELY COATED OF THE RIGID CONDUIT WITH AN ALKALI AND RESISTANT BITUMASTIC PAINT, COPPER # 50.

D. WET AND DAMP LOCATIONS: USE RIGID STEEL, INTERMEDIATE, AND LIQUDTIGHT FLEXIBLE METAL CONDUIT.

E. DRY LOCATIONS:

- 1. CONCEALED: ELECTRICAL METALLIC TUBING.
2. EXPOSED:
A) EXTERIOR-RIGID STEEL ONLY.
B) INTERIOR-RIGID STEEL TO 2"0" A.F.G., THEN ELECTRICAL METALLIC TUBING.

F. METAL CONDUIT

- 1. RIGID STEEL AND INTERMEDIATE METAL CONDUIT: ANSI C80.1.
2. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; ALL STEEL FITTINGS.
3. RIGID STEEL CONDUIT SHALL BE UNDERWRITERS' APPROVED HOT-DIP GALVANIZED WITH ENHANCED CORROSION PROTECTION.
4. ALL CONDUIT SHALL BE MADE UP TIGHT AND NO RUNNING THREADS WILL BE PERMITTED.

G. FLEXIBLE METAL CONDUIT

- 1. DESCRIPTION: FOR EXPOSED LOCATIONS, INTERLOCKED STEEL CONSTRUCTION.
2. FITTINGS: ANSI/NEMA FB 1.
3. FLEXIBLE METALLIC CONDUIT IN DRY LOCATIONS SHALL BE UNDERWRITERS' APPROVED, COMPRESSION COUPLING OR CONNECTORS.

H. LIQUDTIGHT FLEXIBLE METAL CONDUIT

- 1. DESCRIPTION: INTERLOCKED STEEL CONSTRUCTION WITH PVC JACKET.
2. FITTINGS: ANSI/NEMA FB 1.
3. FLEXIBLE CONDUIT IN DAMP OR WET LOCATIONS SHALL BE UNDERWRITERS' APPROVED FLEXIBLE, LIQUID-TIGHT METAL CONDUIT.

I. ELECTRICAL METALLIC TUBING (EMT)

- 1. DESCRIPTION: ANSI C80.3; GALVANIZED TUBING.
2. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; STEEL SET SCREW OR STEEL COMPRESSION COUPLING OR CONNECTORS.
3. THIN WALL CONDUIT SHALL BE UNDERWRITERS' APPROVED GALVANIZED ELECTRICAL METALLIC TUBING.

J. NONMETALLIC CONDUIT

- 1. DESCRIPTION: NEMA TC 2; SCHEDULE 40 PVC.
2. FITTINGS AND CONDUIT BODIES: NEMA TC 3.

K. TYPE MC CABLE

- 1. MC CABLE MAY BE USED WHERE CONCEALED IN WALLS. SECURE IN NO MORE THAN 3' INTERVALS AND WITHIN 6" OF OUTLET.

L. UNDERGROUND SERVICE CONDUITS/RACEWAY ENTERING THE BUILDING OR STRUCTURE FROM OUTSIDE SHALL BE SEALED, INCLUDING SPARE CONDUITS. SEALANT SHALL BE SUITABLE FOR THIS USE.

M. ALL UNDERGROUND PVC CONDUIT RUNS SHALL HAVE RIGID STEEL ELBOWS AND RIGID SECTIONS AT SLAB PENETRATIONS WHERE SUBJECT TO POSSIBLE DAMAGE.

N. ALL CONDUITS SHALL BE PROPERLY ALIGNED, GROUPED AND SUPPORTED. EXPOSED CONDUIT SHALL BE INSTALLED AT RIGHT ANGLES TO OR PARALLEL TO THE PRINCIPAL STRUCTURAL MEMBERS.

O. PROVIDE NYLON PULL CORD AND LEAVE IN PLACE IN EACH EMPTY CONDUIT. LABEL EACH END OF THE PULL CORD WITH LOCATION OF THE OPPOSITE END.

BOXES

A. ALL BOXES SHALL BE RIGIDLY MOUNTED AND SHALL BE EQUIPPED WITH SUITABLE SCREW FASTENED COVERS. OPEN KNOCK-OUTS OR HOLES IN BOXES SHALL BE PLUGGED WITH A SUITABLE BLANKING DEVICE.

B. OUTLET BOXES FOR EXPOSED WALL MOUNTING, AND OUTDOOR INSTALLATIONS SHALL BE CAST WITH THREADED HUB TYPE WITH SUITABLE COVERS. WEATHERPROOF RECEPTACLE COVERS SHALL BE "IN USE" TYPE AND HAVE METAL SPRING HINGE LIDS.

CONDUCTORS

A. UNLESS OTHERWISE INDICATED, ALL BRANCH CIRCUIT CONDUCTORS SHALL BE #12 AWG. BRANCH CIRCUITS RUN OVER 75 FEET IN LENGTH, MEASURING ONE WAY FROM THE FIRST OUTLET OF THE CIRCUIT TO THE PANEL, SHALL BE #10 AWG FOR THE ENTIRE CIRCUIT.

B. SPLICES, TAPS AND ATTACHMENT FITTINGS AND LUGS SHALL BE ELECTRICALLY AND MECHANICALLY SECURE AND SOLDERLESS FOR CONDUCTORS SIZES #8 AWG AND LARGER. THERE SHALL BE PLENTY OF SLACK CABLE IN BOXES, OUTLETS AND CABINETS TO INSURE THAT THERE IS NO BINDING AT THE BUSHINGS.

C. ALL CONDUCTORS SHALL BE COPPER. CONDUITOR INSULATION SHALL BE DUAL TYPE THHH/THWN 75° C. (167°F.) FOR DRY, DAMP & WET LOCATIONS. CONDUCTOR INSULATION WITH SINGLE TYPE MARKING THHN 90° C. (194° F.) MAY BE USED FOR DRY LOCATIONS ONLY.

CONDUCTORS ARE INSTALLED. THE FOLLOWING SYSTEMS OF COLOR CODING SHALL BE STRICTLY ADHERED TO:

- 1. ISOLATED GROUND LEADS: GREEN AND YELLOW.
2. GROUND LEADS: GREEN
3. GROUNDED NEUTRAL LEADS: WHITE
4. 120/240 VOLT, UNGROUNDED PHASE WIRES: BLACK AND RED.

THE COLOR CODE ASSIGNED TO EACH PHASE WIRE SHALL BE CONSISTENTLY FOLLOWED THROUGHOUT. NOTE: WHERE EXISTING BASE BUILDING COLOR CODING DIFFERS FROM COLOR CODING ASSIGNED HERE-IN CONTRACTOR SHALL USE EXISTING COLOR CODING AS REQUIRED TO MAINTAIN CONSISTENCY.

D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE ALL REQUIRED CONNECTIONS TO SERVE MECHANICAL EQUIPMENT FURNISHED.

E. ALL CONDUITS AND WIRING PENETRATING RATED FLOORS, CEILINGS AND WALLS SHALL BE SEALED TO MAINTAIN FIRE RATING AND INTEGRITY OF SEPARATION.

F. WHEN MAIN ELECTRICAL SERVICE CONDUCTOR HAS A WIREWAY, E.C. SHALL TAP OFF ALL SERVICE ENTRANCE FEEDERS (PARALLEL CONDUCTORS) FOR TOTAL AMPACITY & BALANCING.

GROUNDING

A. THE INTERIOR ELECTRICAL SYSTEMS SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED BY THE NEC AND AS SPECIFIED HEREINAFTER.

B. ALL METALLIC RACEWAYS SHALL BE MECHANICALLY AND ELECTRICALLY SECURE AT ALL JOINTS AND AT ALL BOXES, CABINETS, FITTINGS, AND EQUIPMENT.

C. ALL GROUND CONDUCTORS SHALL BE INSULATED COPPER UNLESS OTHERWISE NOTED.

D. ALL RACEWAYS WITH #10 OR 12 AWG PHASE CONDUCTORS FOR RECEPTACLES, LIGHTING FIXTURES AND SIMILAR CIRCUITS (NEW BRANCH CIRCUITS) SHALL BE PROVIDED WITH A PARITY SIZED GREEN EQUIPMENT GROUND CONDUCTOR.

E. TERMINATE FEEDER AND BRANCH CIRCUIT INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH GROUNDING LUG, BUS, OR BUSHING. CONDUCTORS LOOPED UNDER SCREW OR BOLT HEADS WILL NOT BE PERMITTED.

F. INSTALL CLAMP-ON CONNECTORS ON CLEAN METAL CONTACT SURFACES TO ENSURE ELECTRICAL CONDUCTIVITY AND CIRCUIT INTEGRITY.

G. PROVIDE GROUNDING BUSHING AND A CONTINUOUS COPPER BONDING JUMPER FROM THE BUSHING TO THE EQUIPMENT GROUND BUS IN ALL FEEDERS.

H. GROUND SHALL BE 5/8" DIAMETER, TEN (10) FEET LONG COPPER-CLAD STEEL. OBTAIN TWENTY FIVE (25) OHMS MAXIMUM RESISTANCE AS READ WITH AN OHM METER.

CIRCUIT PROTECTIVE DEVICES

A. GENERAL:

1. UNLESS OTHERWISE INDICATED, PROTECTIVE DEVICES SHALL BE MOUNTED WITH TOP OF CABINET OR ENCLOSURE 6"-6" ABOVE FINISHED FLOOR, SHALL BE PROPERLY ALIGNED, AND SHALL BE ADEQUATELY SUPPORTED INDEPENDENTLY OF THE CONNECTING RACEWAYS.

2. INSTALL DISCONNECT SWITCHES FOR USE WITH MOTOR-DRIVEN APPLIANCES, AND MOTORS AND CONTROLLERS WITHIN SIGHT OF CONTROLLER POSITION UNLESS OTHERWISE INDICATED.

B. SAFETY SWITCHES:

1. ALL SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE. SWITCH MECHANISM SHALL BE QUICK-MAKE, QUICK-BREAK. COVER SHALL BE INTERLOCKED WITH MECHANISM TO PREVENT OPENING UNLESS SWITCH IS IN THE "OFF" POSITION.

C. FUSES:

- 1. ALL FUSES FOR SWITCHES SHALL BE DUAL ELEMENT, CARTRIDGE TYPE.
2. FUSES FOR HVAC EQUIPMENT (ROOF TOP UNITS, CONDENSING AND AIR HANDLING UNITS) SHALL BE RK5 TYPE.

PANELBOARDS:

A. PANELBOARDS SHALL BE CONNECTED DISTRIBUTED PHASE WITH CIRCUIT NUMBERING AS INDICATED ON THE DRAWINGS. PANELBOARDS SHALL HAVE CIRCUIT DIRECTORY CARDS AND SHALL BE COMPLETED WITH A TYPEWRITER BY THE CONTRACTOR TO INDICATE NEW AND EXISTING AREAS AND/OR DEVICES SERVED BY EACH CIRCUIT.

B. CIRCUIT BREAKERS FOR MOUNTING IN NEW PANELBOARDS OR DISTRIBUTION SECTION OF SWITCHBOARD SHALL BE MOLDED PLASTIC CASE, AIR CIRCUIT BREAKER TYPE. BREAKERS SHALL

HAVE THERMAL-MAGNETIC TRIP UNITS AND MULTI-POLE BREAKERS SHALL HAVE A COMMON TRIP BAR SO THAT THE TRIPPING OF ONE POLE WILL AUTOMATICALLY TRIP ALL POLES OF THE BREAKER.

C. PANELBOARDS SHALL BE INSTALLED COMPLETE WITH CONNECTORS AND ASSOCIATED HARDWARE FOR ALL CIRCUIT BREAKERS AND SPACES LISTED IN THE PANELBOARD SCHEDULE.

D. PANELBOARDS TO BE DEADFRONT TYPE, WITH ALUMINUM/COPPER BUS BARS, WITH BOLT-ON TYPE BRANCH CIRCUIT BREAKERS EQUAL TO SQUARE-D TYPE NOOD, NF, OR I-LINE AS APPLICABLE.

E. ALL PANELBOARDS TO BE IDENTIFIED WITH ENGRAVED PLASTIC LAMINATE SIGNS. COORDINATE NAMES USED FOR IDENTIFICATION WITH CORRESPONDING DESIGNATIONS SHOWN, SPECIFIED OR SCHEDULED.

F. INSTALL PANELBOARDS AND ENCLOSURES AS INDICATED, IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. APPLICABLE REQUIREMENTS OF NEC STANDARDS AND NECA'S "STANDARDS OF INSTALLATION", AND IN COMPLIANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS FULFILL REQUIREMENTS.

G. PANEL LOAD DATA IS BASED ON INFORMATION GIVEN TO ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATING BEFORE ORDERING.

H. TYPEWRITTEN CIRCUIT PANEL DIRECTORY SHALL BE PROVIDED INSIDE OF EACH PANELBOARD DOOR. CLEARLY IDENTIFY AREA AND TYPE OF LOAD SERVED BY EACH BRANCH CIRCUIT PROTECTIVE DEVICE.

I. THE PANEL BREAKERS SHALL BE FULLY RATED. SERIES RATING IS NOT ACCEPTABLE.

RECEPTACLES

A. ALL RECEPTACLES SHALL BE THE GROUNDING TYPE WITH GROUND CONNECTION MADE THROUGH AN EXTRA POLE WHICH SHALL BE PERMANENTLY CONNECTED TO GROUND CONDUCTOR.

B. RECEPTACLES FOR 20 AMPERE, 120V SERVICE SHALL BE THREE-WIRE, TWO POLE RECEPTACLES RATED 20 AMPERES AT 120 VOLTS. 15 AMPERE RECEPTACLES WILL BE ACCEPTABLE ON MULTI-OUTLET CIRCUITS.

C. WALLPLATES: PROVIDE WALLPLATES FOR SINGLE AND COMBINATION WIRING DEVICES. OF TYPES, SIZES, AND WITH GANGING AND CUTOUTS AS INDICATED. SELECT PLATES WHICH MATE AND MATCH WIRING DEVICES TO WHICH ATTACHED.

D. ELECTRICAL CONTRACTOR SHALL CONFIRM RECEPTACLE CONFIGURATION, VOLTAGE, PHASE AND AMPERAGE FOR ALL EQUIPMENT FURNISHED AND INSTALLED FOR THIS WORK.

ALL REQUIRED DEVICES SHALL MATCH IN COLOR AND STYLE. COLOR OF DEVICES AND PLATES SHALL BE DICTATED BY ARCHITECT AND OWNER.

MOTOR STARTERS:

A. MANUAL MOTOR STARTERS FOR 115V, 1Ø MOTORS (1) HORSEPOWER AND SMALLER, SHALL BE SINGLE POLE, HORSEPOWER RATED SWITCHES WITH THERMAL OVERLOAD UNITS AND HEATERS.

LIGHTING FIXTURES:

A. THE CONTRACTOR SHALL FURNISH AND INSTALL, COMPLETE IN ALL RESPECTS, ALL LIGHTING FIXTURES SHOWN ON THE PLANS.

B. SHOP DRAWINGS: SUBMIT FIXTURE SHOP DRAWINGS MINIMUM (6) COPIES IN BOOKLET FORM, WITH SEPARATE SHEET FOR EACH FIXTURE ASSEMBLED IN "LUMINAIRE TYPE" ALPHABETICAL OR NUMERICAL ORDER.

C. BALLASTS FOR FLUORESCENT LAMPS SHALL BE HIGH FREQUENCY ELECTRONIC FOR USE WITH OTC TYPE (265MA) LAMPS. THE TOTAL HARMONIC DISTORTION (THD) SHALL BE LESS THAN 10. POWER FACTOR SHALL BE .95 OR HIGHER.

D. T-8 AND T-5 FLUORESCENT, COMPACT FLUORESCENT LAMPS SHALL BE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE OR AS NOTED.

E. ALL FIXTURES SHALL BE PROPERLY AND CAREFULLY SUPPORTED AND ALIGNED, AND THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY STEEL SHAPES, ETC., FOR SUPPORT OF FIXTURES AS REQUIRED AND DETAILED ON THE DRAWINGS.

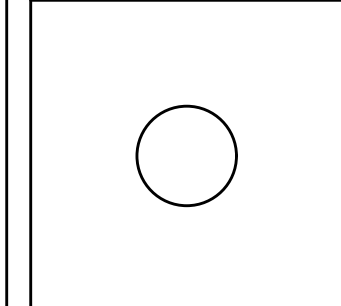
F. LED FIXTURES SHALL BE FURNISHED TO MATCH THE REQUIREMENTS FOR THE PARTICULAR APPLICATION. COLOR (CRI) SHALL BE 3500K, 4100K OR AS DIRECTED.

GO GRINER ENGINEERING, INC. 3125 Fifth Ave N., Suite 300, St. Petersburg, Florida 33713. Date: 02/24/20, Drawn: JAR, Designed: JAR, EOR: JHG, Job no.: 2023.

REVISIONS table with columns for revision number and description.

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