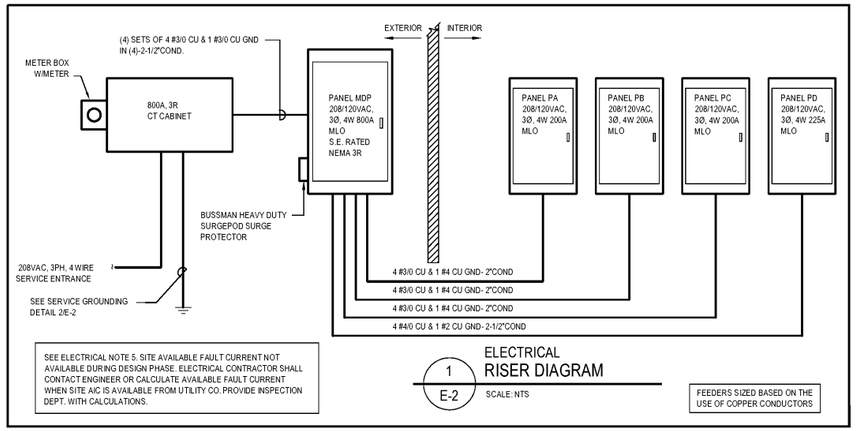
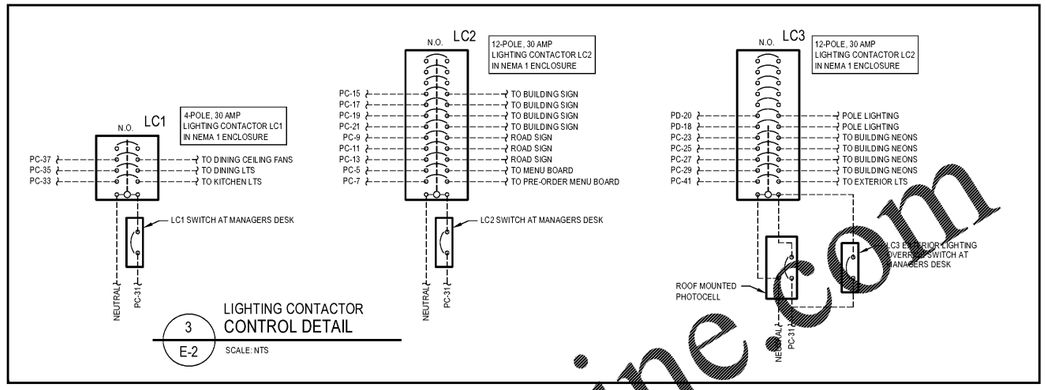
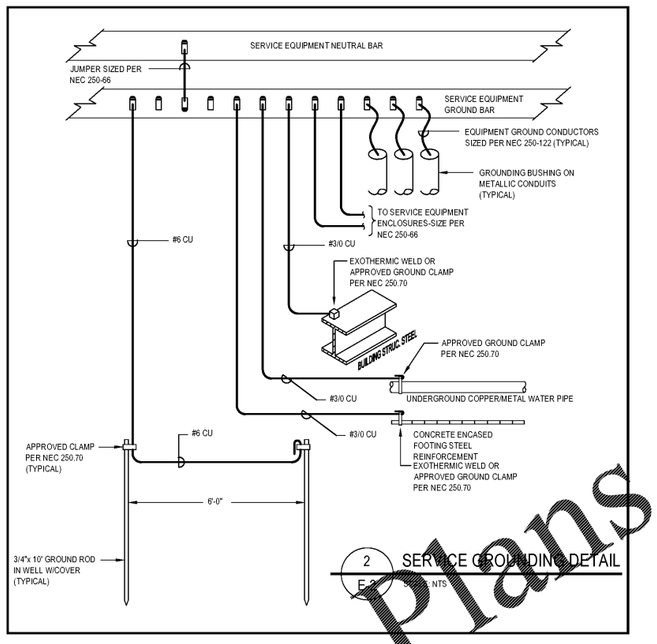


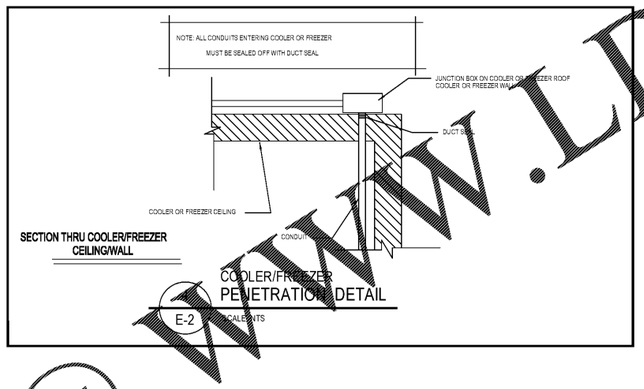
1 E-2 ELECTRICAL RISER DIAGRAM
SCALE: NTS



3 E-2 LIGHTING CONTACTOR CONTROL DETAIL
SCALE: NTS



2 E-2 SERVICE GROUNDING DETAIL
SCALE: NTS



COOLER/FREEZER PENETRATION DETAIL
E-2 SCALE: NTS

PANEL: MDP

TYPE: BOLT-ON | 208 V, 3 PH, 4 WIRE | MOUNT: WALL TOP

PROVIDE IF CHECKED: XX EQUIP. GROUND BUS; XX NEUTRAL BUS; GUTTER TAPS; SUB-FEED LUGS

LOAD SERVED	WIRE AWG	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	WIRE AWG	LOAD SERVED
PANEL PA	3/0	12,582	200/3	1	29,087			2	200/3	16,505	3/0	PANEL PC
|	3/0	14,467	|			31,600		|	17,133	3/0	|
|	3/0	11,839	|				28,030		|	16,191	3/0	|
PANEL PB	3/0	12,910	200/3	3	32,516			4	225/3	19,606	4/0	PANEL PD
|	3/0	13,782	|			33,694			|	19,912	4/0	|
|	3/0	12,774	|				32,980		|	20,206	4/0	|
				5				6				
					61,603	65,294	61,010	TOTAL VOLT AMPS		800	A. BUS (COPPER)	
					513	544	508	CONN. AMPS		800	A. MAIN LUGS	

NOTE:
1. NEMA 3R ENCLOSURE WITH KEY LOCK DOOR.
2. SEE ELECTRICAL NOTE 5, INCREASE ELECTRICAL EQUIPMENT KAIC IF REQUIRED.
3. PROVIDE BUSSMAN HEAVY DUTY SURGEPOD SURGE PROTECTOR

22 KAIC MIN.

LOAD SUMMARY

VOLTAGE	PHASE
208	3

LARGEST MOTOR		
LARGEST MOTOR APPROX. AMPS	33	AMPS
LARGEST MOTOR APPROX. AMPS X.25	8	AMPS
HVAC		
HVAC UNITS	46,596	VA
VENTILATION EQUIPMENT	5,406	VA
SUB-TOTAL HVAC DEMAND	52,002	VA
TOTAL DEMAND FOR HVAC	144	AMPS
EQUIPMENT		
GREASE HEATER	2,160	VA
HEAT TAPE	3,000	VA
FLY FAN	1,500	VA
REFRIGERATION EQUIPMENT	42,272	VA
RECIRCULATION PUMP	100	VA
WATER HEATER IGNITION	2,880	VA
FLY LAMPS	5,400	VA
SUB-TOTAL EQUIPMENT DEMAND	57,312	VA
TOTAL EQUIPMENT DEMAND	159	AMPS
KITCHEN EQUIPMENT		
NON-DERATED (100% LOAD)	27,596	VA
DERATED EQUIP. (PER NEC TABLE 220.56)	6,624	VA
DEMAND FACTOR 65% (6 UNITS OR OVER)	4,306	VA
SUB-TOTAL EQUIPMENT DEMAND	31,902	VA
TOTAL DEMAND FOR KITCHEN EQUIPMENT	89	AMPS
LIGHTING		
LIGHTS (INTERIOR)	3,767	VA
LIGHTS (EXTERIOR)	2,726	VA
SUB-TOTAL LIGHTING LOAD	6,493	VA
LIGHTING LOAD x 1.25	8,116	VA
TOTAL DEMAND FOR LIGHTING	23	AMPS
SIGNAGE		
TOTAL SIGNAGE LOAD	8,400	VA
SIGNAGE LOAD x 1.25	10,500	VA
TOTAL DEMAND FOR SIGNAGE	29	AMPS
EXTERIOR NEONS		
TOTAL NEON LOAD	4,800	VA
SIGNAGE LOAD x 1.25	6,000	VA
TOTAL DEMAND FOR NEONS	17	AMPS
MENU BOARDS		
TOTAL MENU BOARD LOAD	5,400	VA
SIGNAGE LOAD x 1.25	6,750	VA
TOTAL DEMAND FOR MENU BOARDS	19	AMPS
INTERMITTING DUTY LOAD		
TOTAL INTERMITTING DUTY LOAD	2,800	VA
INTERMITTING DUTY LOAD x 0.85	2,380	VA
TOTAL DEMAND FOR INTERMITTING DUTY LOAD	7	AMPS
RECEPTACLES		
TOTAL RECEPTACLE LOAD	16,480	VA
FIRST 10000VA	10,000	VA
REMAINDER @ 50%	3,240	VA
TOTAL DEMAND FOR RECEPTACLE/POWER PANELS	13,240	VA
TOTAL DEMAND FOR RECEPTACLE/POWER PANELS	37	AMPS
TOTAL DEMAND BUILDING AMPS	531	AMPS
TOTAL DEMAND BUILDING LOAD	191,174	VA
TOTAL BUILDING CONNECTED LOAD	187,907	VA

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NC Professional Engineering Firm License No. P-0936

No.	Date:	By	Description

ELECTRICAL LOAD SUMMARY AND DETAILS

COOK-OUT RESTAURANTS

4145 S. MEMORIAL DRIVE
PITT COUNTY - WINTERVILLE TOWNSHIP - NORTH CAROLINA

Scale:	Date:	Drawn By:	Checked By:	Job No.:
AS NOTED	APRIL 2019	ECB	HMSJ	E-5460

Sheet No.
E-2
2 of 6

MAINTENANCE FORM CAROLINA