LOAD ANALYSIS

LOAD DESCRIPTION	CONNECTED VA	DEMAND FACTOR	VA DEMAND
LIGHTING – EXTERIOR	0	1.00	0
LIGHTING – INTERIOR	1024	1.25	1280
SIGNAGE	1200	1.25	1500
RECEPTACLES	3210	FIRST 10 KW 100%	3210
	0	REMAINDER @ 50%	0
KITCHEN EQUIPMENT	28267	0.65	18374
WATER HEATER	1200	1.00	1200
HVAC EQUIPMENT	17702	1.00	17702
3ø MOTORS	0	LGT MOTOR @ 125%	0
	0	PLUS 100% REMAINDER	0
1ø MOTORS	1920	LGT MOTOR @ 125%	2400
	1704	PLUS 100% REMAINDER	1704
MISCELLANEOUS	30	1.00	30
TOTALS	56257	DEMAND FACTOR	47400
CALCULATED SERVICE DEMAND AMPERES		131.57	

GENERAL NOTES

1. BRANCH CIRCUIT WIRING SHALL BE AS FOLLOWS:
   A. LIGHTING AND POWER NETWORKS: (120/208V, 3ø, 4W)
      1) 100 FEET OR LESS:
         PHASE – 3#12 AWG
         NEUTRAL – 1#12 AWG
         GROUND – 1#12 AWG
      2) GREATER THAN 100 FEET:
         INCREASE ALL CONDUCTORS BY ONE WIRE GAUGE SIZE.
      3) TWO NETWORKS MAXIMUM PER CONDUIT.
2. PROVIDE SINGLE GANG JUNCTION BOX FOR EACH TELEPHONE AND/OR DATA OUTLET WITH 3/4"C. STUBBED-UP TO 6" ABOVE WALL PARTITION, OR LAY-IN CEILING. PROVIDE BLANK COVERPLATE ON EACH OUTLET.
3. MINIMUM CONDUIT SIZE SHALL BE 3/4", UNLESS OTHERWISE NOTED OR INDICATED.
4. EMERGENCY LIGHTING CIRCUITING SHALL BE THE SAME CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES.

PANEL BOARD SCHEDULE A

PANEL DESIGNATION	VOLTAGE	BUS RATING	AIC RATING	PROJECT #
A	120/208 3ø 4W	200 AMPS	42,000*	HIGH POINT, NC
MOUNTING	PANEL LOCATION	MAIN LUG.	MAIN BREAKER:	
SURFACE	BACK WALL	200 AMPS	MLO	

	CKT NO.	CKT TRIP	BKR POLE	LOAD DESCRIPTION AND LOCATION	LOAD (V.A./PHASE) A	B	C	LOAD (V.A./PHASE)			LOAD DESCRIPTION AND LOCATION	BKR POLE	CKT TRIP	CKT NO.	
	1	20A	1	LTG – BACK RM/RESTROOM	714			4810			PANEL B	1	20A	2	
	3	20A	1	LTG – SERVICE/DINING		352			3096			1	20A	4	
	5	20A	1	LTG – WALL SCONCE/TRACK			138			948		1	20A	6	
	7	20A	1	SANDWICH UNIT	864			603			FREEZER CAPSULE PACK	2		8	
HACR	9	20A	1	ICE MAKER		1272			603				15A	10	HACR
	11	20A	1	DRINK DISPENSER			1116			180	RECEPT. – ROOF TOP	1	20A	12	HACR
	13	20A	1	WALK IN COOLER	360			2882				3		14	
	15	20A	1	RECEPT. – CASH REGISTER		100			2882		RTU-2			16	
	17	20A	1	SANDWICH UNIT			864			2882			30A	18	HACR
	19	20A	1	RECEPT. – STORAGE	360			696			31A – COOKER/FOOD WARMER	1	20A	20	
	21	20A	1	STEP IN FREEZER		1368			1320		3, 4 – DROP-IN/SLICER	1	20A	22	HACR
	23	20A	1	BAG-IN-BOX			100			1320	3, 4 – SLICER/DROP-IN	1	20A	24	HACR
	25	40A		BREAD OVEN	3843			1044			1 – MEAT CASE	1	20A	26	HACR
	27					3843			894		COOLER CAPSULE PACK	2		28	
	29		3				3843			894			20A	30	HACR
GFCI	31	20A	1	COOKER/FOOD WARMER – 31B	828						SPARE	1	20A	32	
	33	20A	1	ICED TEA BREWER		1728					SPARE	1	20A	34	
HACR	35	20A	1	PEPSI COOLER			864				SPARE	1	20A	36	
	37	20A	1	SPARE				2882				3		38	
	39	20A	1	SPARE					2882		RTU-1			40	
	41	20A	1	SPARE						2882			30A	42	HACR
				NOTES:	6969	8663	6925	12917	11677	9106					

PHASE A	19886	LOAD CALCULATION	
PHASE B	20340	AMPS @ 120/208/3ø	131.57
PHASE C	16031		
TOTAL	56257		

1. PROVIDE WITH GROUND BUS.

* FIELD COORDINATE

LOD – LOCK-ON DEVICE FOR CIRCUIT BREAKER.
HACR – U.L. LISTED "HACR" TYPE CIRCUIT BREAKER.

PANEL BOARD SCHEDULE B

PANEL DESIGNATION	VOLTAGE	BUS RATING	AIC RATING	PROJECT #
B	120/208 3ø 4W	100 AMPS	18,000*	HIGH POINT, NC
MOUNTING	PANEL LOCATION	MAIN LUG.	MAIN BREAKER:	
SURFACE	BACK WALL	100 AMPS	MLO	

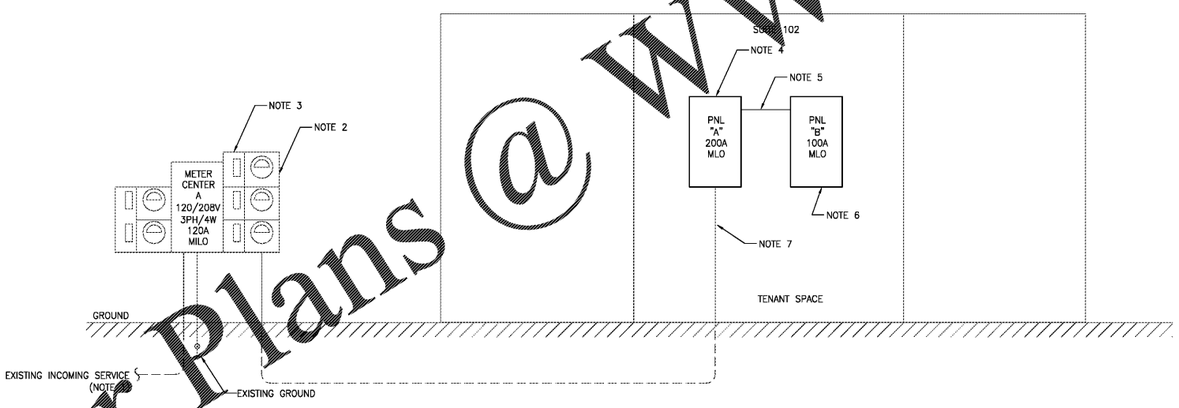
CKT NO.	CKT TRIP	BKR POLE	LOAD DESCRIPTION AND LOCATION	LOAD (V.A./PHASE) A	B	C	LOAD (V.A./PHASE)			LOAD DESCRIPTION AND LOCATION	BKR POLE	CKT TRIP	CKT NO.
1	20A	1	KEH-1	250			360			RECEPT. – SHOW WINDOW	1	20A	2
3	20A	1	KEF-1		1176			180		RECEPT. – FUTURE PRINTER	1	20A	4
5	20A	1	KEF-2			528			180	RECEPT. – SERVICE/BACK ROOM	1	20A	6
7	20A	1	KSF-1	1920			720			RECEPT. – CONVENIENCE	1	20A	8
9	20A	1	LTG – SIGNAGE		1200			360		RECEPT. – TELEPHONE BOARD	1	20A	10
11	15A	1	TIME SWITCH TS-1			10			50	RECEPT. – SPEAKER/RECEIVER	1	20A	12
13	15A	1	WH-1 AND WH-2	1200			360			RECEPT. – P.O.S.	1	20A	14
15	20A	1	SPARE					180		RECEPT. – FUTURE PRINTER	1	20A	16
17	20A	1	SPARE						180	RECEPT. – FUTURE PRINTER	1	20A	18
19	20A	1	SPARE							SPARE	1	20A	20
21	20A	1	SPARE							SPARE	1	20A	22
23	20A	1	SPARE							SPARE	1	20A	24
25	20A	1	SPARE							SPARE	1	20A	26
27	20A	1	SPARE							SPARE	1	20A	28
29	20A	1	SPARE							SPARE	1	20A	30
			NOTES:	1370	2376	538	1440	720	410				

PHASE A	4530	LOAD CALCULATION	
PHASE B	3906	AMPS @ 120/208/3ø	24.58
PHASE C	3448		
TOTAL	11884		

1. PROVIDE WITH GROUND BUS.

* FIELD COORDINATE

LOD – LOCK-ON DEVICE FOR CIRCUIT BREAKER.
HACR – U.L. LISTED "HACR" TYPE CIRCUIT BREAKER.



NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION OF MAIN ELECTRICAL SERVICE, AND SERVICE ENTRANCE RATING IF NOT PROVIDE.
2. EXISTING METER AND METER CAN. FIELD VERIFY OR ELSE PROVIDE.
3. EXISTING METER CENTER CIRCUIT BREAKER. FIELD VERIFY EXISTING CIRCUIT BREAKER IS 200A/3P OR ELSE PROVIDE.
4. PROVIDE 200A MLO 120/208V, 3PH, 4W, 42 POLE PANEL BOARD BY LANDLORD.
5. PROVIDE 4#6, 1#10G, IN 1"C BY TENANT.
6. PROVIDE 100A MLO, 208/120V, 3PH, 4W, 30 POLE PANEL BOARD BY TENANT.
7. PROVIDE 4#3/0, 1#6G IN EXISTING 3"C IF NOT ALREADY EXISTING.

1 / E1.04 **RISER DIAGRAM**
SCALE: NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 20543 ENGINEER ASHIM K. RAY
11-24-19
ARCHITECT/ENGINEER STAMP

REV NO.	DATE	DESCRIPTION

PROJECT NO: JMNC-200
DRAWN BY: AK
CHECKED BY: AR
ISSUE DATE: 11/04/19

PANEL SCHEDULES & RISER

E1.04

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