

PANELBOARD NOTES ()

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

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

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

PNL A				PANELBOARD				208Y/120V, 3PH, 4W 600A, MLO REF 1-LINE AIC EQUIPMENT GROUND BUS ISOLATED GROUND BUS					
SERVES: WHOLE BUILDING LOCATION: ELEC. CABINET MOUNTING: RECESSED													
	DESCRIPTION	WIRE	BRKR	PL	KVA A	KVA B	KVA C	PL	BRKR	WIRE	DESCRIPTION		
1	WIC DISPLAY LTS/MENUBOARDED	12	20	1	0.33	1.00		1	20	12	FAX '87, MGR 'B4C, COMP '49A'	2	
3	HOOD CONTRL PNL 'M4'	12	20	1		0.50	0.60	1	20	12	MUSIC, VCR, MONITOR	4	
5	SERVICE POS 94, PTR '86A' (2,6)	12	20	1			1.10	0.50	1	20	12	COMPUTER RECPT '83A' (2)	6
7	D.THRU POS '94/PTRS '86A' (2,6)	12	20	1	1.10	0.13		1	20	12	10J ICE MACHINE (6)	8	
9	95-4-S3; FLY LT.C02 (1)	12	20	1		0.82		1	20	12	SPARE	10	
11	RICE WARMER '54' (1,4)	12	20	1			0.11	1	20	12	SPARE	12	
13	REF. PREP TABLE '34D' (1)	12	20	1	1.44	1.18		1	20	12	REAR DOOR - FLY FAN 'M8A' (7)	14	
15	REF. PREP TABLE '34D' (1)	12	20	1		1.08		1	20	12	SPARE	16	
17	UNDER CTR FRZR '30L' (1,4)	10	20	1			1.08	0.20	1	20	12	FIRE SUP SHUTDOWN	18
19	BEV. DISP. '4AB' (1)	12	20	1	1.12	1.30		1	20	10	INDUCT WELL 3F, 3G (1,4,6)	20	
21	SERVING COUNTER	12	20	1		0.18	1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	22	
23	ICE TEA BREWER '9D'	12	20	1			1.78	1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	24
25	FOOD PROCESSOR '53'	12	20	1	1.20	1.30		1	20	10	INDUCT WELL 3F, 3G (1,4,6)	26	
27	SPARE	12	20	1			1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	28	
29	WALK-IN COOLER COIL '31M' (1)	12	20	1			0.24	1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	30
31	RICE HOLD CABINET '24H' (1,4,6)	10	20	1	1.78	1.30		1	20	12	INDUCT WELL 3F, 3G (1,4,6)	32	
33	FUTURE CONTROLS (1,6)	12	20	1		0.20	0.84	1	20	12	RAD TOP HEATER '1S2B1' (1)	34	
35	TIMECLOCK	12	20	1			0.10	1.10	1	20	12	RAD TOP HEATER '1S2B2' (1)	36
37	'4B' BOOSTER OUTLET (6)	12	20	1	0.86	1.10		1	20	12	RAD TOP HEATER '1S2B2' (1)	38	
39	HEAT WRAP '32-S7' (4)	12	20	1		0.50	0.84	1	20	12	RAD TOP HEATER '1S2B1' (1)	40	
41	FLY LIGHT	12	20	1			0.18	0.84	1	20	12	RAD TOP HEATER '1S2B1' (1)	42
43	DUCT DETECTORS	12	20	1	0.20			1	20	12	SPARE	44	
45	LTG-FOOD PREP/EF-3 (4)	10	20	1		0.85		1	20	12	SPARE	46	
47	LTG - DINING AREA	12	20	1			0.53	1.40	2	15	12	MICROWAVE - 55A (1)	48
49	SHOW WINDOW RECPTS	12	20	1	0.54	1.40							50
51	GENERAL RECPTS	12	20	1		0.72	0.18		1	20	12	FUTURE EQUIPMENT	52
53	EXTERIOR RECPTS	12	20	1			0.36		1	20	12	SPARE	54
55	SPARE	12	20	1		1.23		2	20	12	12	ICE MACHINE COND. '10J-S' (1)	56
57	10J ICE MACHINE (6)	12	20	1		0.13	1.23						58
59	GAS WATER HEATER - P3, GFCI (6)	12	20	1			0.96	3.33	2	40	8	WALK IN FRZL COND. '32-S1' (1,7)	60
61	ICE TEA BREWER '9D' (1,4)	10	20	1	1.78	3.33			2	30	10	WALK IN COOL COND '31-S' (1)	62
63	LIGHTING - RESTROOMS	12	20	1		0.07	2.81						64
65	SPARE	12	20	1			2.81						66
67	DT WINDOW 'M9A' AIR CURTAIN	10	20	1	0.50	8.64							68
69	INDUC DR WELL 3F, 3G (1,4,6)	10	20	1		1.30	8.64		3	80	3	RTU-3 (LENNOX)	70
71	INDUC DR WELL 3F, 3G (1,4,6)	10	20	1			1.30	8.64					72
73	ELECTRIC GRILL - '23E' (1,6)	6	50	2	3.00	8.64			3	80	3	RTU-2 (LENNOX)	74
75						3.00	8.64						76
77	SPACE			1				8.64					78
79	(SHUNT)			1		5.88			3	50	4	RTU-1 (LENNOX)	80
81	INDUC DR WELL 3F, 3G (1,4,6)	10	20	1		1.30	5.88						82
83	INDUC DR WELL 3F, 3G (1,4,6)	10	20	1			1.30	5.88					84
TOTAL					50.28	42.91	44.98	KVA					
TOTAL LOAD					419	358	375	AMPS					
FEEDER LOAD					136.16	KVA	383	AMPS					
PER NEC ARTICLE 220					123.58	KVA	343	AMPS					

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

PANEL SCHEDULES 1
NOT TO SCALE E-601

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