

MLO, A/C: NOTES D6, D7, & D8, Mounting: MDP, NEMA 1											
WATTS			PANEL AP-1						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH		
A	B	C	DESCRIPTION	BRKR	REQ	PLS	NO.	CCT	TRIP	PLS	REQ
1632	720		DCO - General Purpose	G	20A-1	1	2	20A-2	G	Coffee brewer (presenter's booth)	1612
		1200	DCO - General Purpose	G	20A-1	3	4	I	I		1612
120			DCO - General Purpose	G	20A-1	5	6	20A-1	G	ABS (phase c, presenter's booth)	1788
			Safe - (mo) DCO Gen Purp	L	20A-1	7	8	20A-1	G	Oil dispenser/Coffee Cream Disp	1668
240			Remote Order Battery	G	20A-1	9	10	20A-1	G	DCO - General Purpose	450
960	1140		Merge/audio sys/drv mon(sa)	G	20A-1	11	12	20A-1	G	Automated beverage sys (abs.pb)	600
			Washer	G	15A-1	13	14	20A-2	G	Coffee Brewer (front counter)	1612
1800			Hand held Order	G	20A-1	15	16	I	I		1612
	120		Computer Room (TF1)	G	20A-1	17	18	30A-3	G	Heat treat combo shake (fnt cntr)	1560
2246	2246		Espresso Brewer	G	30A-2	19	20	I	I		1560
			3-Vat fryer exhist hd interlock	I		21	22	I	I		1560
1200	1500		Ice machine - 1000 lb	G	20A-1	23	24	20A-1	G	3-Vat fryer exhist hd interlock	1176
			Reach in Freezer-SW	G	20A-1	25	26	20A-2	H	Ice Machine Remote Condensor	104
1080			Frozen fry dispenser (fry wall)	G	20A-1	27	28	I	I		104
	2112		4-Vat fryer exhist hd interlock	G	20A-1	29	30	20A-1	G	Reach in Freezer-SW	1200
1884			Fry bagging station 36" (fry wall)	L,G	20A-1	31	32	15A-3	H	Ice Machine Remote Cond	1224
60			Hand Wash Timer	G	20A-1	33	34	I	I		1224
	1200		Reach in Freezer-SW	G	20A-1	35	36	I	I		1224
132			Ice machine - 1000 lb	G	15A-1	37	38	15A-3	H	Ice Machine Remote Cond	1224
132			Ice machine - 1000 lb	G	15A-1	39	40	I	I		1224
	1656		4-Vat fryer exhist hd interlock	G	20A-1	41	42	I	I		1224
						Total Connect			17178		
						Connect Amps			14064		
						Demand Amps			17700		
									136		
									98		

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WATTS			PANEL AP-2						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH		
A	B	C	DESCRIPTION	BRKR	REQ	PLS	NO.	CCT	TRIP	PLS	REQ
1536			Ice machine 1400LB	H	20A-3	1	2	20A-1	G	Refrigerator - Single Wide	684
	1536			I	I	3	4	20A-1	I	Janitor EF	100
624			Soda tower-cold plate(serf serv)	I	I	5	6	20A-1	G	DCO - General Purpose	1080
180			Janitor's closet	G	20A-1	9	10	20A-2	G	Trash Compactor	2496
			Spare	L	20A-1	11	12	I	I		2496
1848			Hot Water Dispenser	G	20A-1	13	14	20A-1	G	Walk in cooler / freezer	1200
	864		Bulk oil system (sup area)	G	20A-1	15	16	20A-1	G	Walk in cooler / freezer	1200
	1668		Cim grill exhist hd interlock	G	20A-1	17	18	20A-2	G	Q'ing oven - P & S	1550
840			Clean in place panel	G	20A-1	19	20	I	I		1550
120			Reverse Osmosis, Filtration	G	20A-1	21	22	20A-1	G	Specialty Coffee Refrigerator	468
	490		DCO in Trash Corral	G	20A-1	23	24	20A-1	G	Compressed Air System	1260
180			Bulk oil sys - support area (sa)	G	20A-1	25	26	20A-1	G	Refrig-wt-48"	600
	1200		BIC Machine	G	20A-1	27	28	20A-2	G	Q'ing oven - P & S	1550
	1032		Refrigerator - Single Wide	G	20A-1	29	30	I	I		1550
684			Refrigerator - Single Wide	G	20A-1	31	32	20A-2	G	Iced Tea Brewer	1352
	120		Recirc pump	G	20A-1	33	34	I	I		1352
	1632		Soda syst pack (support area)	G	20A-1	35	36	20A-1	G	DCO - General Purpose	480
3120			Soda syst pack (support area)	G	30A-3	37	38	20A-1	G	BAS Controller	360
	3120			I	I	39	40	20A-1	Spare		
				I	I	41	42	20A-1	G	DCO - gen purpose	540
						Total Connect			14578		
						Connect Amps			14306		
						Demand Amps			131		
									92		

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WATTS			PANEL AP-3						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH		
A	B	C	DESCRIPTION	BRKR	REQ	PLS	NO.	CCT	TRIP	PLS	REQ
600			Baked Goods Display Case	G	15A-1	1	2	50A-3	G	3 - Vat LOV Fryer - Elec. - F/F/F	4668
			Universal Radiant Toaster	G	30A-2	3	4	I	I		4668
	2621			I	I	5	6	I	I		4668
1140			Hand Dryer	L,G	20A-1	7	8	50A-3	G	3 - Vat LOV Fryer - Elec. - F/F/F	4668
	1140		Hand Dryer	L,G	20A-1	9	10	I	I		4668
			Hand Dryer	L,G	20A-1	11	12	I	I		4668
1140			Hand Dryer	L,G	20A-1	13	14	50A-3	G	3 - Vat LOV Fryer - Elec. - F/F/F	4668
	360		Refrigerator/Freezer 2 dwnr	L,G	20A-1	15	16	I	I		4668
	384		Refrigerator 2 Drawer	G	20A-1	17	18	I	I		4668
384			Refrigerator 2 Drawer	G	20A-1	19	20	20A-1	I	Spare	
	120		DCO-Satellite Music System	G	20A-1	21	22	20A-1	G	Toilet Exhaust Fan	864
			Roof receptacles	G	20A-1	23	24	20A-1	G		540
1368			WareWasher	G	20A-1	25	26	20A-2	G	Coffee Brewer (Glass Decanter)	1612
	1656		Bulk Oil System	G	20A-1	27	28	I	I		1612
4000			D.T. Window Power	L	15A-1	29	30	20A-1	G	Cig. Mt. window receipts	720
	4000		Unit AC-1	G	50A-2	31	32	50A-2	I	Unit AC-2	4000
				I	I	33	34	I	I		4000
	1200		Unit AC-3	G	20A-1	35	36	20A-1	G	Spare	
			Unit AC-4	G	20A-1	37	38	20A-1	G	Prep Table	840
	660		Unit AC-5	G	20A-1	39	40	20A-1	G	Wall MT freezer SW	600
	120		D.T. Window Power	G	20A-1	41	42	20A-1	G	D.T. Window Power	120
						Total Connect			30288		
						Connect Amps			29016		
						Demand Amps			223		
									157		

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WATTS			PANEL AP-4						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH		
A	B	C	DESCRIPTION	BRKR	REQ	PLS	NO.	CCT	TRIP	PLS	REQ
2604			3 - Platen Clamshell Grill	G	50A-3	1	2	50A-3	G	3 - Platen Clamshell Grill	2604
	2604			I	I	3	4	I	I		2604
5196			3 - Platen Clamshell Grill	G	50A-3	5	6	50A-3	G	3 - Platen Clamshell Grill	5196
	5196			I	I	7	8	I	I		5196
1602			Q'ing oven - P & S	I	20A-2	9	10	I	I		5196
	1602			I	I	11	12	I	I		5196
			Frozen Beverage Dispenser	G	30A-2	13	14	15A-1	G	Ventless Hood Combi	960
2080				I	I	15	16	15A-1	G	Ventless Hood Combi	960
	180		McDelivery Center	I	I	17	18	20A-1	G	Finishing Station	960
				I	I	19	20	30A-3	G	Combi Oven	1047
				I	I	21	22	I	I		1047
				I	I	23	24	I	I		1047
				I	I	25	26	30A-3	G	Combi Oven	1047
				I	I	27	28	I	I		1047
				I	I	29	30	I	I		1047
				I	I	31	32	20A-1	Spare		
				I	I	33	34	20A-1	Spare		
				I	I	35	36	20A-1	Spare		
				I	I	37	38	20A-1	G		
				I	I	39	40	20A-1	Spare		
				I	I	41	42	20A-1	Spare		
						Total Connect			22335		
						Connect Amps			20435		
						Demand Amps			176		
									118		

SEE SHEET E3.1 FOR GENERAL ELECTRICAL NOTES

BREAKER MODIFICATIONS:

G - GFCI PERSONNEL PROTECTION (5MA)
HID - HID & SWD RATED
L - HANDLE LOCK
H - HACR RATED
S - SWITCH DUTY RATED
SHT - SHUNT TRIP

TOTAL BUILDING 208Y/120V, 3 PHASE, 4--WIRE GENERAL SERVICE POWER BASED ON NEC 220.88 FOR AN "ALL ELECTRIC" NEW RESTAURANT.

ELECTRIC UTILITIES CALC

NEC Optional Method	(kW)	(A)
1. Continuous Loads:	35	96
2. Kitchen Loads:	294	817
3. HVAC Loads:	189	526
4. Cooling:	123	341
5. Total (1+2+3+4):	641	1780
6. Base Value (See 220.88):	325	902
7. Amount Over Base Value (5-6):	316	878
8. Demand Factor:	.5	
9. Adjusted Value (8*7):	158	439
10. Adjusted Base Value (220.88):	172.5	479
11. Demand (9+10):	331	918