



PANEL MDP (ELECTRICAL) SECTION 2 277/480 3PH 4W 1000 AMP BUS - MCB 42K AIC NEMA TYPE 1 (SURFACE)													
CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA
1	DTT FOR PANEL LP	100	3	46	0.67	31	2	DTT FOR PANEL KP	200	3	174	0.94	165
3				46	0.67	31	4				174	0.94	165
5				46	0.67	31	6				174	0.94	165
7	SPARE	20	1				8	HALL AND RESTROOM LIGHTS	20	1	15	0.70	11
9	SPARE	20	1				10	LIGHTS	20	1	15	0.70	11
11	SPARE	20	1				12	KITCHEN LIGHTS	20	1	7	0.70	5
13	HVAC-1	20	3	14	0.70	10	14	HVAC-2	25	3	19	0.70	13
15				14	0.70	10	16				19	0.70	13
17				14	0.70	10	18				19	0.70	13
19	MAU-1	15	3	2	0.70	1	20	MAU-2 (CU)	15	3	9	0.70	6
21				2	0.70	1	22				9	0.70	6
23				2	0.70	1	24				9	0.70	6
25	MAU-1 (CU)	15	3	8	0.70	5	26	MAU-2 (CU)	15	3	9	0.70	6
27				8	0.70	5	28				9	0.70	6
29				8	0.70	5	30				9	0.70	6
31	MAU-2	15	3	8	0.70	5	32	MAU-2 (CU)	15	3	9	0.70	6
33				8	0.70	5	34				9	0.70	6
35				8	0.70	5	36				9	0.70	6
37	SPARE	20	1				38	HALL AND RESTROOM LIGHTS	20	1	15	0.70	11
39	SPARE	20	1				40	SPARE	20	1			
41	SPARE	20	1				42	SPARE	20	1			

PROVIDE WITH FEED THRU LUGS FOR SECTION 2

**Section 1**  
**Tot Amps/PH - Connected Load** 313.92  
**Demand Factor** 83.14%  
**Total Amps/PH - Demand** 260.99  
**Connected KVA** 260.68  
**Demand KVA** 216.73  
**Min. Panel Size (Demand x 1.25) - Amps** 326.24

PANEL KP (KITCHEN HALL) SECTION 1 120/208 3PH 4W 400 AMP BUS - MLO 42K AIC NEMA TYPE 1 (RECESSED)													
CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA
1	ITEM 1 POWER (WALK IN COOLER)	20	1	13	1.00	13	2	ITEM 4 POWER (WALK IN COOLER)	20	1	13	1.00	13
3	ITEM 2 HEAT TRACE (GFCI)	15	2	1	0.60	0	4	ITEM 5 (COOLER EVAP)	15	2	1	0.60	0
5				1	0.60	0	6				1	0.60	0
7	ITEM 2 HEAT TRACE (GFCI)	20	1	13	1.00	13	8	ITEM 5 HEAT TRACE (GFCI)	20	1	13	1.00	13
9	ITEM 3 (COOLER COMP)	15	2	8	0.60	5	10	ITEM 6 (COOLER COMP)	15	2	8	0.60	5
11				8	0.60	5	12				8	0.60	5
13	ITEM 7 POWER (WALK IN COOLER)	20	1	13	1.00	13	14	ITEM 10 POWER (WALK IN COOLER)	20	1	13	1.00	13
15	ITEM 8 (COOLER EVAP)	15	2	1	0.60	0	16	ITEM 11 (COOLER EVAP)	15	2	1	0.60	0
17				1	0.60	0	18				1	0.60	0
19	ITEM 8 HEAT TRACE (GFCI)	20	1	13	1.00	13	20	ITEM 11 HEAT TRACE (GFCI)	20	1	13	1.00	13
21	ITEM 9 (COOLER COMP)	15	2	8	0.60	5	22	ITEM 12 (COOLER COMP)	15	2	8	0.60	5
23				8	0.60	5	24				8	0.60	5
25	ITEM 18 (ICE MAKER)	15	2	14	0.60	9	26	ITEM 22 (80 Qt MIXER)	20	3	12	0.50	6
27				14	0.60	9	28				12	0.50	6
29	ITEM 27 (20 Qt MIXER)	20	1	8	0.50	4	30	ITEM 55 (DISHWASHER CONVEYOR)	80	3	60	0.70	42
31	ITEM 30 (SHEETER)	20	1	4	0.50	2	32				60	0.70	42
33	ITEM 54 (DISPOSER)	15	3	3	0.50	2	34	ITEM 62 (BOOSTER HEATER)	90	3	67	0.60	40
35				3	0.50	2	36				67	0.60	40
37	SPARE	20	1				38	SPARE	20	1			
39											40		
41	SPARE	20	1				42	SPARE	20	1			

PROVIDE WITH FEED THRU LUGS FOR SECTION 2

**Section 1**  
**Tot Amps/PH - Connected Load** 211.99  
**Demand Factor** 66.57%  
**Total Amps/PH - Demand** 141.12  
**Connected KVA** 76.28  
**Demand KVA** 50.78  
**Min. Panel Size (Demand x 1.25) - Amps** 176.40

PANEL MDP (ELECTRICAL) SECTION 2 277/480 3PH 4W 1000 AMP BUS - MLO 42K AIC NEMA TYPE 1 (SURFACE)													
CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA
43	EF-1 (SHUNT TRIP)	15	3	1	0.70	1	44	EF-2 (SHUNT TRIP)	15	3	3	0.70	2
45				1	0.70	1	46				3	0.70	2
47				1	0.70	1	48				3	0.70	2
49	SPACE						50	SPACE					
51	EF-3 (SHUNT TRIP)	15	3	3	0.70	2	52	SPARE	20	1			
53				3	0.70	2	54	SPARE	20	1			
55				3	0.70	2	56	PANEL KH FEEDER (SHUNT TRIP)	150	0.70	105		
57	3	0.70	2	58	150	0.70	105						
59	SPACE					60	150		0.70	105			
61	SPARE	20	1				62	SPACE					
63	SPARE	20	1				64	SPARE	20	1			
65	SPARE	20	1				66	SPARE	20	1			
67	SPARE	20	1				68	SPARE	20	1			
69	SPARE	20	1				70	SPARE	20	1			
71	SPARE	20	1				72	SPARE	20	1			
73	SPARE	20	1				74	SPARE	20	1			
75	SPARE	20	1				76	SPARE	20	1			
77	SPARE	20	1				78	SPARE	20	1			
79	SPARE	20	1				80	SPARE	20	1			
81	SPARE	20	1				82	SPARE	20	1			
83	SPARE	20	1				84	SPARE	20	1			

AT - Amp Trip  
P - Poles  
A - Amps  
CA - Connected Amperes  
DF - Demand Factor (1 - .1)  
DA - Demand Amperes  
MLO - Main Lug Only  
MCB - Main Circuit Breaker

**Section 2**  
**Tot Amps/PH - Connected Load** 157.57  
**Demand Factor** 70.90%  
**Total Amps/PH - Demand** 110.30  
**Connected KVA** 130.84  
**Demand KVA** 91.59  
**Min. Panel Size (Demand x 1.25) - Amps** 137.87

**Total Combined Load**  
**Tot Amps/PH - Connected Load** 471.49  
**Demand Factor** 1.18771  
**Total Amps/PH - Demand** 371.29  
**Connected KVA** 391.53  
**Demand KVA** 308.32  
**Min. Panel Size (Demand x 1.25) - Amps** 464.11

**NOTES:**  
1. PROVIDE ARC FAULT TYPE CIRCUIT BREAKERS IN ACCORDANCE WITH NEC 210.12  
2. PROVIDE TAMPER RESISTANT OUTLETS PER NEC 406.11 SECTION 210.52

PANEL KP (KITCHEN HALL) SECTION 2 120/208 3PH 4W 400 AMP BUS - MLO 42K AIC NEMA TYPE 1 (RECESSED)													
CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA
43	OFFICE RECEPETS	20	1	3	0.50	2	44	KITCHEN RECEPETS	20	1	9	0.50	5
45	EXTERIOR EQUIPMENT RECEPETS	20	1	3	0.50	2	46	KITCHEN RECEPETS	20	1	9	0.50	5
47	SPARE	20	1				48	DINING RECEPETS	20	1	12	0.50	6
49	SPARE	20	1				50	BATHROOM RECEPT	20	1	3	0.50	2
51	SPARE	20	1				52	SPARE	20	1			
53	SPARE	20	1				54	SPARE	20	1			
55	SPARE	20	1				56	SPARE	20	1			
57	SPARE	20	1				58	SPARE	20	1			
59	SPARE	20	1				60	SPARE	20	1			
61	SPARE	20	1				62	SPARE	20	1			
63	SPARE	20	1				64	SPARE	20	1			
65	SPARE	20	1				66	SPARE	20	1			
67	SPARE	20	1				68	SPARE	20	1			
69	ITEM 20 (HOOD POWER) SHUNT TRIP	20	1	15	1.00	15	70	SPARE	20	1			
71	SPACE						72	ITEM 40 (HOOD POWER) SHUNT TRIP	20	1	15	1.00	15
73	ITEM 48 (FRYER BATTERY) SHUNT TRIP	20	1	7	0.70	5	74	SPACE					
75	SPACE						76	ITEM 40 (HOOD POWER) SHUNT TRIP	20	1	15	1.00	15
77	PANEL KH FEEDER	400	3	150	0.70	105	78	SPACE					
79				150	0.70	105	80	ITEM 56 (CONDENSATE HOOD)	20	1	15	0.60	9
81	SPACE						82	EF-4	15	1	10	0.60	6
83	SPACE						84	EF-5	15	1	3	0.60	2

AT - Amp Trip  
P - Poles  
A - Amps  
CA - Connected Amperes  
DF - Demand Factor (1 - .1)  
DA - Demand Amperes  
MLO - Main Lug Only  
MCB - Main Circuit Breaker

**Section 2**  
**Tot Amps/PH - Connected Load** 189.13  
**Demand Factor** 70.52%  
**Total Amps/PH - Demand** 133.38  
**Connected KVA** 68.06  
**Demand KVA** 48.00  
**Min. Panel Size (Demand x 1.25) - Amps** 166.73

**Total Combined Load**  
**Tot Amps/PH - Connected Load** 401.12  
**Demand Factor** 0.943946  
**Total Amps/PH - Demand** 274.50  
**Connected KVA** 144.34  
**Demand KVA** 98.77  
**Min. Panel Size (Demand x 1.25) - Amps** 343.12

**NOTES:**  
1. PROVIDE ARC FAULT TYPE CIRCUIT BREAKERS IN ACCORDANCE WITH NEC 210.12  
2. PROVIDE TAMPER RESISTANT OUTLETS PER NEC 406.11 SECTION 210.52

PANEL LP (ELECTRICAL) SECTION 1 120/208 3PH 4W 225 AMP BUS - MCB 42K AIC NEMA TYPE 1 (SURFACE)													
CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA
1	CORRIDOR RECEPETS	20	1	9	0.50	5	2	FACP	20	1	4	1.00	4
3	BATHROOM RECEPETS	20	1	9	0.50	5	4	TBB	20	1	3	0.50	2
5	EXTERIOR RECEPETS	20	1	15	0.50	8	6	FUNCTION ROOM RECEPETS	20	1	9	0.50	5
7	ROOF EQUIPMENT RECEPETS	20	1	6	0.50	3	8	CHANGING/ STORAGE & OFFICE RECEPETS	20	1	9	0.50	5
9	GW-H (WATER HEATER)	20	1	6	1.00	6	10	ERV-1			38	0.70	26
11	WH-1 (ENTRY)	25	1	17	0.70	12	12		38	0.70	26		
13	WH-1 (MENS)	25	1	17	0.70	12	14		38	0.70	26		
15	WH-1 (WOMENS)	25	1	17	0.70	12	16	SPARE	20	1			
17	WH-1 (ELECTRICAL)	25	1	17	0.70	12	18	SPARE	20	1			
19	HVAC-3	30	3	23	0.70								