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				46	0.67	31	2				174	0.94	165
3	DTT FOR PANEL LP	100	3	46	0.67	31	4	DTT FOR PANEL KP	200	3	174	0.94	165
5				46	0.67	31	6				174	0.94	165
7	SPARE	20	1			0	8	HALL AND RESTROOM LIGHTS	20	1	15	0.70	11
9	SPARE	20	1			0	10	LIGHTS	20	1	15	0.70	11
11	SPARE	20	1			0	12	KITCHEN LIGHTS	20	1	7	0.70	5
13				14	0.70	10	14				19	0.70	13
15	HVAC-1	20	3	14	0.70	10	16	HVAC-2	25	3	19	0.70	13
17				14	0.70	10	18				19	0.70	13
19				2	0.70	1	20				9	0.70	6
21	MAU-1	15	3	2	0.70	1	22	MAU-2 (CU)	15	3	9	0.70	6
23				2	0.70	1	24				9	0.70	6
25				8	0.70	5	26				9	0.70	6
27	MAU-1 (CU)	15	3	8	0.70	5	28	MAU-2 (CU)	15	3	9	0.70	6
29				8	0.70	5	30				9	0.70	6
31				8	0.70	5	32				9	0.70	6
33	MAU-2	15	3	8	0.70	5	34	MAU-2 (CU)	15	3	9	0.70	6
35				8	0.70	5	36				9	0.70	6
37	SPARE	20	1			0	38	HALL AND RESTROOM LIGHTS	20	1	15	0.70	11
39	SPARE	20	1			0	40	SPARE	20	1			0
41	SPARE	20	1			0	42	SPARE	20	1			0

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 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				1	0.70	1	44				3	0.70	2
45	EF-1 **(SHUNT TRIP)**	15	3	1	0.70	1	46	EF-2 **(SHUNT TRIP)**	15	3	3	0.70	2
47				1	0.70	1	48				3	0.70	2
49	SPACE					0	50	SPACE					0
51				3	0.70	2	52	SPARE	20	1			0
53	EF-3 **(SHUNT TRIP)**	15	3	3	0.70	2	54	SPARE	20	1			0
55				3	0.70	2	56				150	0.70	105
57	SPACE					0	58	PANEL KH FEEDER **(SHUNT TRIP)**	225	3	150	0.70	105
59	SPARE	20	1			0	60				150	0.70	105
61	SPARE	20	1			0	62	SPACE					0
63	SPARE	20	1			0	64	SPARE	20	1			0
65	SPARE	20	1			0	66	SPARE	20	1			0
67	SPARE	20	1			0	68	SPARE	20	1			0
69	SPARE	20	1			0	70	SPARE	20	1			0
71	SPARE	20	1			0	72	SPARE	20	1			0
73	SPARE	20	1			0	74	SPARE	20	1			0
75	SPARE	20	1			0	76	SPARE	20	1			0
77	SPARE	20	1			0	78	SPARE	20	1			0
79	SPARE	20	1			0	80	SPARE	20	1			0
81	SPARE	20	1			0	82	SPARE	20	1			0
83	SPARE	20	1			0	84	SPARE	20	1			0

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	**70.00%**
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 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 (COOLER EVAP)	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				12	0.50	6
27				14	0.60	9	28	ITEM 22 (80 Qt MIXER)	20	3	12	0.50	6
29	ITEM 27 (20 Qt MIXER)	20	1	8	0.50	4	30				12	0.50	6
31	ITEM 30 (SHEETER)	20	1	4	0.50	2	32				60	0.70	42
33	ITEM 54 (DISOPSER)	15	3	3	0.50	2	34	ITEM 55 (DISHWASHER CONVEYOR)	80	3	60	0.60	36
35				3	0.50	2	36				60	0.60	36
37				3	0.50	2	38				67	0.60	40
39	SPARE	20	1			0	40	ITEM 62 (BOOSTER HEATER)	90	3	67	0.60	40
41	SPARE	20	1			0	42				67	0.60	40

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 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 RECEPTS	20	1	3	0.50	2	44	KITCHEN RECEPTS	20	1	9	0.50	5
45	EXTERIOR EQUIPMENT RECEPTS	20	1	3	0.50	2	46	KITCHEN RECEPTS	20	1	9	0.50	5
47	SPARE	20	1			0	48	DINING RECEPTS	20	1	12	0.50	6
49	SPARE	20	1			0	50	BATHROOM RECEPT	20	1	3	0.50	2
51	SPARE	20	1			0	52	SPARE	20	1			0
53	SPARE	20	1			0	54	SPARE	20	1			0
55	SPARE	20	1			0	56	SPARE	20	1			0
57	SPARE	20	1			0	58	SPARE	20	1			0
59	SPARE	20	1			0	60	SPARE	20	1			0
61	SPARE	20	1			0	62	SPARE	20	1			0
63	SPARE	20	1			0	64	SPARE	20	1			0
65	SPARE	20	1			0	66	SPARE	20	1			0
67	SPARE	20	1			0	68	SPARE	20	1			0
69	ITEM 20 (HOOD POWER) **SHUNT TRIP**	20	1	15	1.00	15	70	SPARE	20	1			0
71	SPACE	20	1			0	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					0
75	SPACE	20	1			0	76	ITEM 40 (HOOD POWER) **SHUNT TRIP**	20	1	15	1.00	15
77				150	0.70	105	78	SPACE					0
79	PANEL KH FEEDER	400	3	150	0.70	105	80	ITEM 56 (CONDENSATE HOOD)	20	1	15	0.60	9
81				150	0.70	105	82	EF-4	15	1	10	0.60	6
83	SPACE					0	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 RECEPTS	20	1	9	0.50	5	2	FACP	20	1	4	1.00	4
3	BATHROOM RECEPTS	20	1	9	0.50	5	4	TBB	20	1	3	0.50	2
5	EXTERIOR RECEPTS	20	1	15	0.50	8	6	FUNCTION ROOM RECEPTS	20	1	9	0.50	5
7	ROOF EQUIPMENT RECEPTS	20	1	6	0.50	3	8	CHANGING/ STORAGE & OFFICE RECEPTS	20	1	9	0.50	5
9	GWH-1 (WATER HEATER)	20	1	6	1.00	6	10				38	0.70	26
11	WH-1 (ENTRY)	25	1	17	0.70	12	12	ERV-1	50	3	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			0
17	WH-1 (ELECTRICAL)	25	1	17	0.70	12	18	SPARE	20	1			0
19				23	0.70	16	20	SPARE	20	1			0
21	HVAC-3	30	3	23	0.70	16	22	SPARE	20	1			0
23				23	0.70	16	24	SPARE	20	1			0
25	SPARE	20	1			0	26	SPARE	20	1			0
27	SPARE	20	1			0	28	SPARE	20	1			0
29	SPARE	20	1			0	30	SPARE	20	1			0
31	SPARE	20	1			0	32	SPARE	20	1			0
33	SPARE	20	1			0	34	SPARE	20	1			0
35	SPARE	20	1			0	36	SPARE	20	1			0
37	SPARE	20	1			0	38	SPARE	20	1			0
39	SPARE	20	1			0	40	SPARE	20	1			0
41	SPARE	20	1			0	42	SPARE	20	1			0

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 1

Tot Amps/PH - Connected Load	**106.47**
Demand Factor	**67.20%**
Total Amps/PH - Demand	**71.55**
Connected KVA	**38.31**
Demand KVA	**25.75**
Min. Panel Size (Demand x 1.25) - Amps	**89.43**

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 KH (KITCHEN HALL) SECTION 1 277/480 3PH 4W 225 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	SPARE	20	1			0	2	SPARE	20	1			0
3				20	0.70	14	4	SPARE	20	1			0
5	ITEM 21 (OVEN)	25	3	20	0.70	14	6				73	0.70	51
7				20	0.70	14	8	ITEM 41 (COMBI-OVEN ROLL-IN)	90	3	73	0.70	51
9	ITEM 21 (PROOFER)	15	2	7	0.70	5	10				73	0.70	51
11				7	0.70	5	12				26	0.70	18
13				26	0.70	18	14	ITEM 44 (COMBI-OVEN)	30	3	26	0.70	18
15	ITEM 44 (COMBI-OVEN)	30	3	26	0.70	18	16				26	0.70	18
17				26	0.70	18	18	SPARE	20	1			0
19	SPARE	20	1			0	20	SPARE	20	1			0
21	SPARE	20	1			0	22	SPARE	20	1			0
23	SPARE	20	1			0	24	SPARE	20	1			0

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 1

Tot Amps/PH - Connected Load	**149.67**
Demand Factor	**70.00%**
Total Amps/PH - Demand	**104.77**
Connected KVA	**124.28**
Demand KVA	**87.00**
Min. Panel Size (Demand x 1.25) - Amps	**130.96**

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

STATE OF MAINE
REVIEWED
FOR CODE COMPLIANCE
Date: 11/22/16

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PANEL SCHEDULES

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