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	15	1.00	15	2	ITEM 4 POWER (WALK IN COOLER)	20	1	15	1.00	15
3	ITEM 2 (COOLER EVAP)	15	2	1	0.70	1	4	ITEM 5 (COOLER EVAP)	15	2	1	0.70	1
5				1	0.70	1	6				1	0.70	1
7	ITEM 2 HEAT TRACE **(GFCI)**	20	1	15	1.00	15	8	ITEM 5 HEAT TRACE **(GFCI)**	20	1	15	1.00	15
9	ITEM 3 (COOLER COMP)	15	2	8	0.70	5	10	ITEM 6 (COOLER COMP)	15	2	8	0.70	5
11				8	0.70	5	12				8	0.70	5
13	ITEM 7 POWER (WALK IN COOLER)	20	1	15	1.00	15	14	ITEM 10 POWER (WALK IN COOLER)	20	1	15	1.00	15
15	ITEM 8 (COOLER EVAP)	15	2	1	0.70	1	16	ITEM 11 (COOLER EVAP)	15	2	1	0.70	1
17				1	0.70	1	18				1	0.70	1
19	ITEM 8 HEAT TRACE **(GFCI)**	20	1	15	1.00	15	20	ITEM 11 HEAT TRACE **(GFCI)**	20	1	15	1.00	15
21	ITEM 9 (COOLER COMP)	15	2	8	0.70	5	22	ITEM 12 (COOLER COMP)	15	2	8	0.70	5
23				8	0.70	5	24				8	0.70	5
25	ITEM 18 (ICE MAKER)	15	2	14	0.70	10	26	ITEM 22 (80 Qt MIXER)	20	3	12	0.50	6
27				14	0.70	10	28				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	ITEM 55 (DISHWASHER CONVEYOR)	80	3	60	0.70	42
33	ITEM 54 (DISOPSER)	15	3	3	0.50	2	34				60	0.70	42
35				3	0.50	2	36				60	0.70	42
37				3	0.50	2	38				67	0.70	47
39	SPARE	20	1			0	40	ITEM 62 (BOOSTER HEATER)	90	3	67	0.70	47
41	SPARE	20	1			0	42				67	0.70	47

PROVIDE WITH FEED THRU LUGS FOR SECTION 2

Section 1

Tot Amps/PH - Connected Load	**217.32**
Demand Factor	**73.74%**
Total Amps/PH - Demand	**160.26**
Connected KVA	**78.20**
Demand KVA	**57.67**
Min. Panel Size (Demand x 1.25) - Amps	**200.33**

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	PANEL KH FEEDER	400	3	150	0.70	105	78	SPACE					0
79				150	0.70	105	80	ITEM 56 (CONDENSATE HOOD)	20	1	15	0.70	11
81				150	0.70	105	82	EF-4	15	1	10	0.70	7
83	SPACE					0	84	EF-5	15	1	3	0.70	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	**71.00%**
Total Amps/PH - Demand	**134.29**
Connected KVA	**68.06**
Demand KVA	**48.32**
Min. Panel Size (Demand x 1.25) - Amps	**167.87**

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

Total Combined Load

Tot Amps/PH - Connected Load	**406.45**
Demand Factor	**1.038578**
Total Amps/PH - Demand	**294.55**
Connected KVA	**146.26**
Demand KVA	**105.99**
Min. Panel Size (Demand x 1.25) -	**368.19**

PANEL KH (KITCHEN HALL) SECTION 1 277/480 3PH 4W 225 AMP BUS - MLO 42K AIC NEMA TYPE 1 (RECESSED)

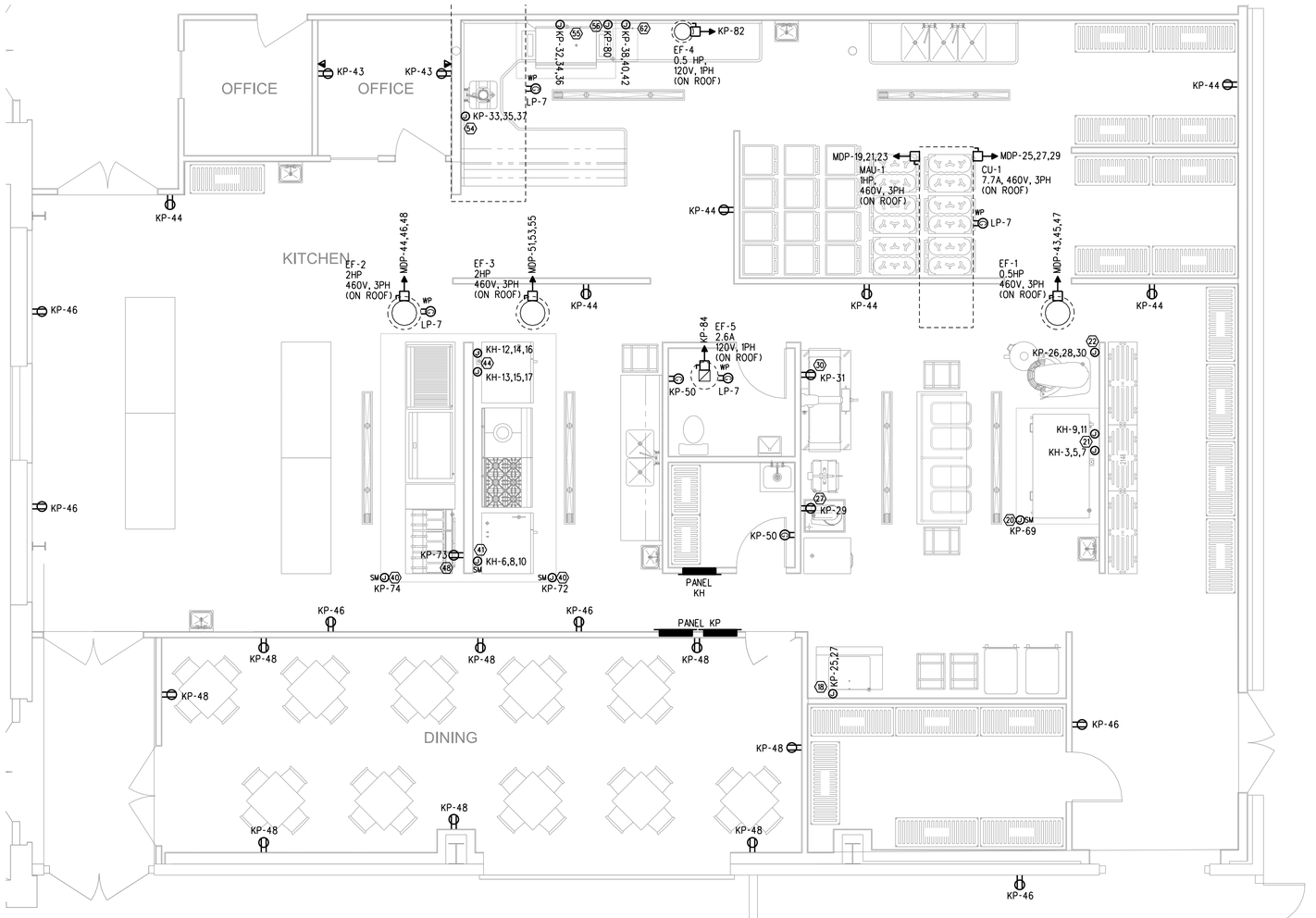
CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA
1	SPARE	20	1			0	2	SPARE	20	1			0
3	ITEM 21 (OVEN)	25	3	20	0.70	14	4	SPARE	20	1			0
5				20	0.70	14	6	ITEM 41 (COMBI-OVEN ROLL-IN)	90	3	73	0.70	51
7				20	0.70	14	8				73	0.70	51
9	ITEM 21 (PROOFER)	15	2	7	0.70	5	10				73	0.70	51
11				7	0.70	5	12				26	0.70	18
13	ITEM 44 (COMBI-OVEN)	30	3	26	0.70	18	14	ITEM 44 (COMBI-OVEN)	30	3	26	0.70	18
15				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

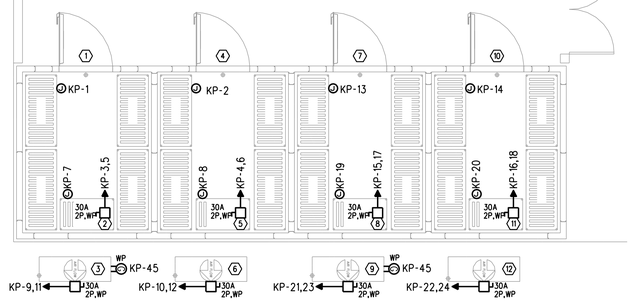
AT - Amp Trip
P - Poles
A - Amps
CA - Connected Amperes
DF - Demand Factor (1 - .1)
DA - Demand Amperes
MLO - Main Lug Only
MCB - Main Circuit Breaker

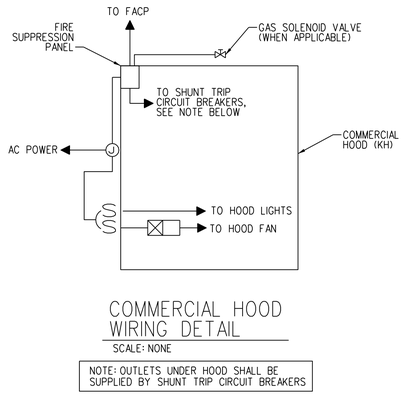
Section 1

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







COMMERCIAL HOOD WIRING DETAIL
SCALE: NONE

NOTE: OUTLETS UNDER HOOD SHALL BE SUPPLIED BY SHUNT TRIP CIRCUIT BREAKERS

KITCHEN PLAN
SCALE: 1/4"=1'-0"

Reviewed for Code Compliance
Inspections Division
Portland, Maine

Date: 11/22/16

Prepared For:

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PORTLAND ME

Revisions:

#	Date	Description
1	08/04/2016	ISSUED FOR PERMIT

Scale: AS NOTED

Date: 08-04-2016

KITCHEN PARTIAL PLAN, PANEL SCHEDULES AND DETAILS

E103