Reviewed for Code Compliance
Inspections Division
Date: 06/08/16

PANEL PP1 (DRY STORAGE 112) SECTION 1 120/208 3PH 4W 200 AMP BUS - MLO 22K AIC NEMA TYPE 1 (SURFACE)

CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA
1	LIGHTING	20	1	15	1.00	15	2	LIGHTING	20	1	15	1.00	15
3	LIGHTING	20	1	15	1.00	15	4	LIGHTING	20	1	15	1.00	15
5	RECEPTS	20	1	15	0.50	8	6	RECEPTS	20	1	15	0.50	8
7	RECEPTS	20	1	15	0.50	8	8	RECEPTS	20	1	15	0.50	8
9	RECEPTS	20	1	15	0.50	8	10	RECEPTS	20	1	15	0.50	8
11	SPARE	20	1			0	12	SPARE	20	1			0
13	SPARE	20	1			0	14	GWH / CP-1	20	1	7	0.70	5
15	WH (STAIR 114)	20	2	10	0.70	7	16	WH (STAIR 114)	20	2	10	0.70	7
17						0	18						0
19	MEZZ RECEPTS	20	1	6	0.50	3	20	ELEV SUMP PUMP CONTROL PANEL	20	1	12	0.50	6
21	MEZZ RECEPTS	20	1	6	0.50	3	22	ELEVATOR PIT LIGHT / RECEPT	20	1	4	0.50	2
23	MEZZ RECEPTS	20	1	6	0.50	3	24	MEZZ LIGHTING	20	1	15	1.00	15
25	MEZZ RECEPTS	20	1	6	0.50	3	26	EMR RECEPTS	20	1	3	0.50	2
27	STAIR LIGHTS	20	1	15	1.00	15	28	EMR LIGHTS	20	1	6	0.50	3
29	STAIR RECEPTS	20	1	9	0.50	5	30	STAIR LIGHTS	20	1	15	1.00	15
31	ROOF RECEPTACLES	20	1	11	0.50	6	32	STAIR RECEPTS	20	1	9	0.50	5
33	SCU-1 / SAC-1 (FOR EMR)	20	2	13	0.70	9	34	WH (ROOF ELEV LOBBY)	20	2	10	0.70	7
35						0	36						0
37	AC-3	50	3	42	0.70	29	38	AC-4	50	3	42	0.70	29
39						0	40						0
41						0	42						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	**135.20**
Demand Factor	**69.48%**
Total Amps/PH - Demand	**93.94**
Connected KVA	**48.65**
Demand KVA	**33.80**
Min. Panel Size (Demand x 1.25) - Amps	**117.43**

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
3. PANEL FEED SHALL BE TAKEN FROM EXISTING MDP.

PANEL PP2 (BOWLING EQ AREA 103) SECTION 1 120/208 3PH 4W 200 AMP BUS - MLO 22K AIC NEMA TYPE 1 (SURFACE)

CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA
1	LIGHTING	20	1	15	1.00	15	2	LIGHTING	20	1	15	1.00	15
3	LIGHTING	20	1	15	1.00	15	4	LIGHTING	20	1	15	1.00	15
5	RECEPTS	20	1	15	0.50	8	6	RECEPTS	20	1	15	0.50	8
7	RECEPTS	20	1	15	0.50	8	8	RECEPTS	20	1	15	0.50	8
9	RECEPTS	20	1	15	0.50	8	10	RECEPTS	20	1	15	0.50	8
11	RECEPTS	20	1	15	0.50	8	12	RECEPTS	20	1	15	0.50	8
13	RECEPTS	20	1	15	0.50	8	14	RECEPTS	20	1	15	0.50	8
15	RECEPTS	20	1	15	0.50	8	16	RECEPTS	20	1	15	0.50	8
17	SPARE	20	1			0	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
25	WH (STAIR 102)	20	2	10	0.70	7	26	SPARE	20	1			0
27						0	28	SPARE	20	1			0
29	WH (STAIR 102)	20	2	10	0.70	7	30	WH (STAIR 102 LOBBY)	20	2	10	0.70	7
31						0	32						0
33	STAIR LIGHTS	20	1	15	1.00	15	34	WH (ROOF STAIR LOBBY)	20	2	10	0.70	7
35	STAIR RECEPTS	20	1	9	0.50	5	36						0
37	AC-1	90	3	72	0.70	50	38	AC-2	60	3	46	0.70	32
39						0	40						0
41						0	42						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	**140.17**
Demand Factor	**66.36%**
Total Amps/PH - Demand	**93.02**
Connected KVA	**50.44**
Demand KVA	**33.47**
Min. Panel Size (Demand x 1.25) - Amps	**116.27**

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
3. PANEL FEED SHALL BE FROM EXISTING MDP.

STATE OF MAINE
STEVEN A. VOLKSON
#9068
LICENSED
PROFESSIONAL ENGINEER

ADDITION TO BAYSIDE BOWL
ALDER STREET
PORTLAND, MAINE

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REVISIONS:
03/24/2016 PERMIT SET

DATE: 18 MAR 2016
PROJECT No. ...
DRAWN BY: CAT
CHECKED BY: SAJ
SCALE: 1/8" = 1'-0" U.N.O.

SHEET TITLE:
MEZZANINE
LIGHTING PLAN

E1.02