



OWNER / DEVELOPER  
**COMMERCIAL PROPERTIES, INC.**  
100 SILVER STREET  
PORTLAND, ME 04101

PROJECT TITLE  
**NEPHROLOGY ASSOCIATES - RENOVATIONS**  
1600 CONGRESS STREET  
PORTLAND, MAINE

DRAWING TITLE  
**POWER PANEL SCHEDULES**  
CWS PROJ. NO.: 11422

REVISION DESCRIPTION	DATE
ISSUED FOR CONSTRUCTION	12/22/11

DRAWING NUMBER

**E3.1**

SCALE: AS NOTED  
DATE: 12/22/2011

PANEL MP (Corridor 142) 120/208 3PH 4W 600 AMP BUS - MCB 42K AIC NEMA TYPE 1 (RECESSED)																
CKT #	LOAD DESCRIPTION	AF	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AF	AT	P	CA	DF	DA	
1	F A C P	20	20	1	4	1.00	4	2								
3	SCU-1 ON ROOF	15	15	2	13	1.00	13	4	AC-1 ON ROOF	45	45	3	32	1.00	32	
5					13	1.00	13	6					32	1.00	32	
7	SAC-1 RM 120	15	15	2	1	1.00	1	8	AC-1 OUTLET ON ROOF	20	20	1	2	0.50	1	
9					1	1.00	1	10	CP1	20	20	1	3	1.00	3	
11	SPACE							12	SPACE							
13	AC-2 (EXISTING ROOF UNIT)	50	50	3	42	1.00	42	14	AC-3 (EXISTING ON ROOF)	40	40	3	29	1.00	29	
15					42	1.00	42	16					29	1.00	29	
17					42	1.00	42	18					29	1.00	29	
19	OUTLET AT RTU-1	20	20	1	2	0.50	1	20	SPACE							
21	OUTLET AT RTU-2	20	20	1	2	0.50	1	22	SPACE							
23	OUTLET AT RTU-3	20	20	1	2	0.50	1	24	SPACE							
25	AC-4 (EXISTING ROOF UNIT)	50	50	3	42	1.00	42	26	SPACE							
27					42	1.00	42	28	SPACE							
29					42	1.00	42	30	SPACE							
31	SPACE							32	SPACE							
33	SPACE							34	SPACE							
35	SPACE							36	SPACE							
37	SPACE							38						168	0.52	88
39	SPACE							40	PANEL "PP" FEEDER	225	225	3	168	0.52	88	
41	SPACE							42					168	0.52	88	

**ELECTRICAL / MECHANICAL ROOM**

AF - Amp Frame	Section 1	
AT - Amp Trip	Tot Amps/PH - Connected Load	327.37
P - Poles	Demand Factor	75%
A - Amps	Total Amps/PH - Demand	245.53
CA - Connected Amperes	Connected KVA	117.80
DF - Demand Factor (1 - .1)	Demand KVA	88.35
DA - Demand Amperes	Min. Panel Size (Demand x 1.25) - Amps	306.92
MLO - Main Lug Only	Panel Size (Demand x 1.56) - Amperes	383.03
MCB - Main Circuit Breaker		
SEE SWITCHBOARD DATA FOR ELECTRONIC BREAKER SETTINGS		

**CORRIDOR 142**

	Section 1	
Tot Amps/PH - Connected Load		327.37
Demand Factor		75%
Total Amps/PH - Demand		245.53
Connected KVA		117.80
Demand KVA		88.35
Min. Panel Size (Demand x 1.25) - Amps		306.92
Panel Size (Demand x 1.56) - Amperes		383.03

PANEL PP (Corridor 142) SECTION 1 120/208 3PH 4W 225 AMP BUS - MLO 42K AIC NEMA TYPE 1 (RECESSED)															
CKT #	LOAD DESCRIPTION	AF	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AF	AT	P	CA	DF	DA
1	LIGHTS	20	20	1		1.00	0	2	LIGHTS	20	20	1		1.00	0
3	LIGHTS	20	20	1		1.00	0	4	LIGHTS	20	20	1		1.00	0
5	LIGHTS	20	20	1		1.00	0	6	LIGHTS	20	20	1		1.00	0
7	LIGHTS	20	20	1		1.00	0	8	LIGHTS	20	20	1		1.00	0
9	LIGHTS	20	20	1		1.00	0	10	LIGHTS	20	20	1		1.00	0
11	LIGHTS	20	20	1		1.00	0	12	LIGHTS	20	20	1		1.00	0
13	LIGHTS	20	20	1		1.00	0	14	LIGHTS	20	20	1		1.00	0
15	OUTLETS RM 114 AND DOC'S 7 & 9	20	20	1	14	0.50	7	16	OUTLETS RM's 115, 116 AND HALL	20	20	1	12	0.50	6
17	OUTLETS DOC'S 8 & 9 AND CPU ALCOVE	20	20	1	15	0.50	8	18	OUTLET RM 120 (VOICE / DATA )	20	20	1	6	0.50	3
19	OUTLETS EXAM RM's 2 & 8	20	20	1	11	0.50	5	20	OUTLET RM 120 (VOICE / DATA )	20	20	1	6	0.50	3
21	OUTLETS EXAM RM's 1 & 6 AND CORR 147	20	20	1	15	0.50	8	22	OUTLET RM 120 (VOICE / DATA )	20	20	1	6	0.50	3
23	OUTLETS RM 141 AND CORR 142	20	20	1	14	0.50	7	24	OUTLET RM 120 (VOICE / DATA )	20	20	1	6	0.50	3
25	OUTLETS RM's 108, 109, 111, 113 & CORR 143	20	20	1	9	0.50	5	26	OUTLETS RM 105	20	20	1	12	0.50	6
27	OUTLETS DOC's 1 & 3	20	20	1	11	0.50	5	28	REFRIGERATOR RM 105	20	20	1	14	0.50	7
29	OUTLETS DOC's 5 & 6	20	20	1	9	0.50	5	30	REFRIGERATOR RM 105	20	20	1	14	0.50	7
31	OUTLETS DOC's 2 & 4	20	20	1	12	0.50	6	32	COFFEE STATION	20	20	1	15	0.50	8
33	OUTLETS RM 103, PATIENT ACCT. WAITING	20	20	1	14	0.50	7	34	MICROWAVE RM 105	20	20	1	16	0.50	8
35	OUTLETS RM 119 EXTERIOR WALL	20	20	1	15	0.50	8	36	DISHWASHER RM 105	20	20	1	12	0.50	6
37	OUTLETS RM 119 COUNTER	20	20	1	3	0.50	2	38	OUTLETS RM 119 (INTERIOR WALLS)	20	20	1	14	0.50	7
39	OUTLETS EXAM RM's 3 & 8	20	20	1	6	0.50	3	40	OUTLETS EXAM RM's 4 & 9, CORR's 148 & 149	20	20	1	12	0.50	6
41	OUTLETS EXAM RM's 5 & 10	20	20	1	8	0.50	4	42	COPIER CORR 149	30	30	1	14	0.40	6

**CORRIDOR 142**

AF - Amp Frame	Section 1	
AT - Amp Trip	Tot Amps/PH - Connected Load	103.83
P - Poles	Demand Factor	50%
A - Amps	Total Amps/PH - Demand	51.45
CA - Connected Amperes	Connected KVA	37.36
DF - Demand Factor (1 - .1)	Demand KVA	18.51
DA - Demand Amperes	Min. Panel Size (Demand x 1.25) - Amps	64.31
MLO - Main Lug Only	Panel Size (Demand x 1.56) - Amperes	80.26
MCB - Main Circuit Breaker		
SEE SWITCHBOARD DATA FOR ELECTRONIC BREAKER SETTINGS		

**CORRIDOR 142**

	Section 1	
Tot Amps/PH - Connected Load		174.33
Demand Factor		52%
Total Amps/PH - Demand		90.50
Connected KVA		62.73
Demand KVA		32.57
Min. Panel Size (Demand x 1.25) - Amps		113.13
Panel Size (Demand x 1.56) - Amperes		141.18

PANEL PP (Corridor 142) SECTION 2 120/208 3PH 4W 225 AMP BUS - MLO 42K AIC NEMA TYPE 1 (RECESSED)																
CKT #	LOAD DESCRIPTION	AF	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AF	AT	P	CA	DF	DA	
43	OUTLETS RM 102	20	20	1	6	0.50	3	44	OUTLETS RM 102	20	20	1	9	0.50	5	
45	OUTLETS RM 102	20	20	1	11	0.50	5	46	OUTLETS RM's 121 & 123	20	20	1	14	0.50	7	
47	REFRIGERATOR RM 123	20	20	1	14	0.50	7	48	REFRIGERATOR RM 125	20	20	1	14	0.50	7	
49	A/C UNIT RM 125	20	20	1		0.50	0	50	VITROS 250 RM 125	30	30	2		0.50	0	
51						1.00	0	52								
53	COBAS E411 RM 125	30	30	2		1.00	0	54	SPARE	20	20	1			0.50	0
55	OUTLET (COBAS PRINTER)	20	20	1		0.50	0	56	OUTLET (VITROS AREA)	20	20	1	3		0.50	2
57	CENTRIFUGE RM 125	20	20	1		0.50	0	58	OUTLETS RM 125	20	20	1	12	0.50	6	
59	CLINTEX RM 125	20	20	1		0.50	0	60	MICROWAVE RM 125	20	20	1	16	0.50	8	
61	EHW	40	40	2	29	0.70	20	62	OUTLETS RM 125	20	20	1	9	0.50	5	
63					29	0.70	20	64	REFRIGERATOR RM 126	20	20	1	14	0.50	7	
65	OUTLETS RM 126	20	20	1	9	0.50	5	66	OUTLETS RM's 126 & 127	20	20	1	12	0.50	6	
67	OUTLETS RM's 101, 128 & CORR 150	20	20	1	11	0.50	5	68	DOOR PUSHBUTTONS	20	20	1	1	0.30	0	
69	SPARE	20	20	1			0	70	SPARE	20	20	1			0	0
71	SPARE	20	20	1			0	72	SPARE	20	20	1			0	0
73	SPACE						0	74	SPACE	20	20	1			0	0
75	SPACE						0	76	SPACE	20	20	1			0	0
77	SPACE						0	78	SPACE						0	0
79	SPACE						0	80	SPACE						0	0
81	SPACE						0	82	SPACE						0	0
83	SPACE						0	84	SPACE						0	0

**CORRIDOR 142**

AF - Amp Frame	Section 2	
AT - Amp Trip	Tot Amps/PH - Connected Load	70.50
P - Poles	Demand Factor	55%
A - Amps	Total Amps/PH - Demand	39.05
CA - Connected Amperes	Connected KVA	25.37
DF - Demand Factor (1 - .1)	Demand KVA	14.05
DA - Demand Amperes	Min. Panel Size (Demand x 1.25) - Amps	48.81
MLO - Main Lug Only	Panel Size (Demand x 1.56) - Amperes	60.92
MCB - Main Circuit Breaker		
SEE SWITCHBOARD DATA FOR ELECTRONIC BREAKER SETTINGS		

**POWER PANEL SCHEDULES**

REFERENCED FROM:

SCALE: NTS

SCALE: AS NOTED

DATE: 12/22/2011