

**PANEL SCHEDULE - PP32**  
SIEMENS TYPE P2 PANELBOARD TO MATCH EXISTING

VOLTAGE: 208/120V AIC: 10KA  
3-PHASE, 4-WIRE

CIRCUIT BREAKER	CIRCUIT LOAD (KVA) CONNECTED			BRANCH CIRCUIT DESCRIPTION		
	NO OF POLES	A	B			
1	20	1	A	0.72	REC - C393	
3	20	1	B	0.72	REC - C393	
5	20	1	C	0.36	REC - C393	
7	20	1	A	0.54	REC - C393	
9	20	1	B	0.72	REC - C393	
11	20	1	C	0.72	REC - C393	
13	20	1	A	0.54	REC - C393	
15	20	1	B	0.72	REC - C393	
17	20	1	C	0.00	SPARE	
19	20	1	A	0.00	SPARE	
21	20	1	B	0.00	SPARE	
23	20	1	C	0.00	SPARE	
25	20	1	A	0.00	SPARE	
27	20	1	B	0.00	SPARE	
29	20	1	C	0.00	SPARE	
SUBTOTAL				1.80	2.16	1.08

2	30	3	A	3.98			AUTOClave
4			B		3.98		
6			C			3.98	
8	20	1	A	0.36			REC - C393
10	20	1	B	0.72			REC - C393A
12	20	1	C		0.54		REC - C393A
14	20	1	A	1.86			BIO SAFETY CABINET #1
16	20	1	B	1.72			BIO SAFETY CABINET #2
18	20	1	C		1.92		FUME HOOD
20	20	1	A	0.00			SPARE
22	20	1	B	0.00			SPARE
24	20	1	C	0.00			SPARE
26	20	1	A	0.00			SPARE
28	20	1	B	0.00			SPARE
30	20	1	C	0.00			SPARE
SUBTOTAL				6.20	6.42	6.44	

**EXISTING PANEL SCHEDULE - DP3**

VOLTAGE: 480/277V AIC: 10KAIC  
3-PHASE, 4-WIRE

CIRCUIT BREAKER	CIRCUIT LOAD (KVA) CONNECTED			BRANCH CIRCUIT DESCRIPTION			
	NO OF POLES	A	B				
1	20	1	A	0.60	LITG - C394		
3	20	1	B	0.70	LITG - C394		
5	20	1	C	0.65	LITG - C395, C396, C398B		
7	20	1	A	0.60	LITG - C393 & C393A		
9	20	1	B	0.00	SPARE		
11	20	1	C	0.00	SPARE		
13	20	1	A	0.00	SPARE		
15	20	1	B	0.00	SPARE		
17	20	1	C	0.00	SPARE		
19	20	1	A	0.00	SPARE		
21	20	1	B	0.00	SPARE		
23	20	1	C	0.00	SPARE		
25	20	1	A	0.00	SPARE		
27	20	1	B	0.00	SPARE		
29	20	1	C	0.00	SPARE		
31	20	1	A	0.00	SPARE		
33	20	1	B	0.00	SPARE		
35	20	1	C	0.00	SPARE		
37	20	1	A	0.00	SPARE		
39	20	1	B	0.00	SPARE		
41	20	1	C	0.00	SPARE		
SUBTOTAL				1.20	0.70	0.65	

2	20	1	A	0.00			SPARE
4	20	1	B		0.00		SPARE
6	20	1	C			0.00	SPARE
8	20	1	A	0.00			SPARE
10	20	1	B		0.00		SPARE
12	20	1	C			0.00	SPARE
14	20	1	A	0.00			SPARE
16	20	1	B		0.00		SPARE
18	20	1	C			0.00	SPARE
20	20	1	A	0.00			SPARE
22	20	1	B		0.00		SPARE
24	20	1	C			0.00	SPARE
26	20	1	A	0.00			SPARE
28	20	1	B		0.00		SPARE
30	20	1	C			0.00	SPARE
32	20	1	A	0.00			SPARE
34	20	1	B		0.00		SPARE
36	20	1	C			0.00	SPARE
38			A	13.10			PP31 VIA TRANSFORMER
40			B		13.72		
42			C			12.20	
SUBTOTAL				13.10	13.72	12.20	

**EXISTING PANEL SCHEDULE - EPP3**

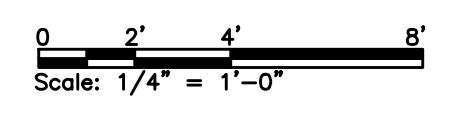
VOLTAGE: 208/120V AIC: 10KA  
3-PHASE, 4-WIRE

CIRCUIT BREAKER	CIRCUIT LOAD (KVA) CONNECTED			BRANCH CIRCUIT DESCRIPTION			
	NO OF POLES	A	B				
1	20	1	A	1.44	80 ULTRALOW FREEZER		
3	20	1	B	0.48	20F FREEZER		
5	20	1	C		REFRIGERATOR		
7	20	1	A	0.60	REFRIGERATOR		
9	20	1	B		XRF		
11	20	1	C		FUME HOOD FH-1 POWER		
13	20	1	A	0.54	REC - C394		
15	20	1	B	1.44	FUME HOOD FH-2 POWER		
17	20	1	C		REC - C394		
19	20	1	A	1.44	FUME HOOD FH-3 POWER		
21	20	1	B	1.20	BSC-1 SAFETY CABINET C395		
23	20	1	C	1.44	FUME HOOD FH-4 POWER		
25	20	1	A	0.00	BMS CIRCUIT		
27	20	1	B	1.20	BIOSAFETY CABINET		
29	20	1	C	0.36	REC - C394, C395		
SUBTOTAL				4.02	5.52	4.20	

2	20	1	A	0.18			REC - ELECTRICAL ROOM
4	20	1	B		0.00		EXISTING BRANCH CIRCUIT
6	20	1	C			1.68	LIGHTED INCUBATOR
8	20	1	A	1.68			LIGHTED INCUBATOR
10	20	1	B		0.00		REFRIG. WITH FREEZER
12	20	1	C			1.90	-70 FREEZER
14	20	1	A	0.00			-20 UC FREEZER
16	20	1	B		0.00		SPARE
18	20	1	C		0.00		SPARE
20	20	1	A	0.00			SPARE
22	20	1	B		0.00		SPARE
24	20	1	C		0.00		SPARE
26	20	1	A	0.00			SPARE
28	20	1	B		0.00		SPARE
30	20	1	C		0.00		SPARE
SUBTOTAL				1.86	0.00	3.58	

SHADING INDICATES EXISTING CIRCUIT TO REMAIN, TYPICAL

1 CONNECT PANEL PP32 TO EXISTING PANEL PP31 USING (4) #2 + (1) #8 G IN 1-1/4" C. PROVIDE A 100A, 3P SIEMENS CIRCUIT BREAKER TO MATCH EXISTING AT CIRCUITS PP31-68, 70, 72.



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REVISIONS

NUMBER	DATE	BY	DESCRIPTION

Date: 3/28/2014  
Drawn By: GMC  
Checked By: SRM  
Project Mgr: IAM  
Project No: 14003  
Cad File: 14003E.DWG  
Graphic Scale: 0 1" = 1'-0"

**POWER AND SYSTEMS PLAN**

UNIVERSITY OF SOUTHERN MAINE BIO-SCIENCE  
~ 3rd FLOOR LAB FIT-UP  
PORTLAND, MAINE

**EP-100**

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