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**PANEL 'LP1'**

LOCATION: 1ST FLOOR MECHANICAL ROOM  
AIC: CONTRACTOR SHALL VERIFY WITH PSE&G  
SERVICE: 120V/208V/3Ø/4 WIRE  
MAIN: 200 AMP MAIN

BRANCHES: AS NOTED  
BUSSING: 800 AMP  
FEED: TOP  
MOUNTING: SURFACE

SERVICE	LOAD	AVG	OKT	A	B	C	OKT	AVG	LOAD	SERVICE
PANEL 'LP1' SUB-FEED BREAKER	34	3	20				15/2	2	12	800
PANEL 'LP2' SUB-FEED BREAKER	34	3	20				15/2	4	12	800
PANEL 'LP3' SUB-FEED BREAKER	34	3	20				15/2	6	12	800
PANEL 'LP4' SUB-FEED BREAKER	34	3	20				15/2	8	12	800
PANEL 'LP5' SUB-FEED BREAKER	34	3	20				15/2	10	12	800
PANEL 'LP6' SUB-FEED BREAKER	34	3	20				15/2	12	12	800
PANEL 'LP7' SUB-FEED BREAKER	34	3	20				15/2	14	12	800
PANEL 'LP8' SUB-FEED BREAKER	34	3	20				15/2	16	12	800
PANEL 'LP9' SUB-FEED BREAKER	34	3	20				15/2	18	12	800
PANEL 'LP10' SUB-FEED BREAKER	34	3	20				15/2	20	12	800
PANEL 'LP11' SUB-FEED BREAKER	34	3	20				15/2	22	12	800
PANEL 'LP12' SUB-FEED BREAKER	34	3	20				15/2	24	12	800
PANEL 'LP13' SUB-FEED BREAKER	34	3	20				15/2	26	12	800
PANEL 'LP14' SUB-FEED BREAKER	34	3	20				15/2	28	12	800
PANEL 'LP15' SUB-FEED BREAKER	34	3	20				15/2	30	12	800
PANEL 'LP16' SUB-FEED BREAKER	34	3	20				15/2	32	12	800
PANEL 'LP17' SUB-FEED BREAKER	34	3	20				15/2	34	12	800
PANEL 'LP18' SUB-FEED BREAKER	34	3	20				15/2	36	12	800
PANEL 'LP19' SUB-FEED BREAKER	34	3	20				15/2	38	12	800
PANEL 'LP20' SUB-FEED BREAKER	34	3	20				15/2	40	12	800
PANEL 'LP21' SUB-FEED BREAKER	34	3	20				15/2	42	12	800
PANEL 'LP22' SUB-FEED BREAKER	34	3	20				15/2	44	12	800
PANEL 'LP23' SUB-FEED BREAKER	34	3	20				15/2	46	12	800
PANEL 'LP24' SUB-FEED BREAKER	34	3	20				15/2	48	12	800
PANEL 'LP25' SUB-FEED BREAKER	34	3	20				15/2	50	12	800
PANEL 'LP26' SUB-FEED BREAKER	34	3	20				15/2	52	12	800
PANEL 'LP27' SUB-FEED BREAKER	34	3	20				15/2	54	12	800
PANEL 'LP28' SUB-FEED BREAKER	34	3	20				15/2	56	12	800
PANEL 'LP29' SUB-FEED BREAKER	34	3	20				15/2	58	12	800
PANEL 'LP30' SUB-FEED BREAKER	34	3	20				15/2	60	12	800
PANEL 'LP31' SUB-FEED BREAKER	34	3	20				15/2	62	12	800
PANEL 'LP32' SUB-FEED BREAKER	34	3	20				15/2	64	12	800
PANEL 'LP33' SUB-FEED BREAKER	34	3	20				15/2	66	12	800
PANEL 'LP34' SUB-FEED BREAKER	34	3	20				15/2	68	12	800
PANEL 'LP35' SUB-FEED BREAKER	34	3	20				15/2	70	12	800
PANEL 'LP36' SUB-FEED BREAKER	34	3	20				15/2	72	12	800
PANEL 'LP37' SUB-FEED BREAKER	34	3	20				15/2	74	12	800
PANEL 'LP38' SUB-FEED BREAKER	34	3	20				15/2	76	12	800
PANEL 'LP39' SUB-FEED BREAKER	34	3	20				15/2	78	12	800
PANEL 'LP40' SUB-FEED BREAKER	34	3	20				15/2	80	12	800
PANEL 'LP41' SUB-FEED BREAKER	34	3	20				15/2	82	12	800
PANEL 'LP42' SUB-FEED BREAKER	34	3	20				15/2	84	12	800
PANEL 'LP43' SUB-FEED BREAKER	34	3	20				15/2	86	12	800
PANEL 'LP44' SUB-FEED BREAKER	34	3	20				15/2	88	12	800
PANEL 'LP45' SUB-FEED BREAKER	34	3	20				15/2	90	12	800
PANEL 'LP46' SUB-FEED BREAKER	34	3	20				15/2	92	12	800
PANEL 'LP47' SUB-FEED BREAKER	34	3	20				15/2	94	12	800
PANEL 'LP48' SUB-FEED BREAKER	34	3	20				15/2	96	12	800
PANEL 'LP49' SUB-FEED BREAKER	34	3	20				15/2	98	12	800
PANEL 'LP50' SUB-FEED BREAKER	34	3	20				15/2	100	12	800

CONNECTED LOAD 64,800 watts

ITEM	LOAD (KW)	DEMAND FACTOR (PER NEC)	DEMAND LOAD (KW)
(1) LIGHTING	60	SEE NOTES	36.25
(2) RECEPTACLE / OTHER	2.4	SEE NOTES	2.4
(3) KITCHEN EQUIPMENT	N/A	SEE NOTES	N/A
(4) H.V.A.C.	N/A	SEE NOTES	N/A
(5) CONT. MOTOR	1.25	SEE NOTES	1.25
(6) PUMP	N/A	SEE NOTES	N/A

TOTAL DEMAND LOAD = 41.05 kW / 208 / 1.73 = 114 AMPS

**PANEL 'LP1'**

LOCATION: 1ST FLOOR MECHANICAL ROOM  
AIC: CONTRACTOR SHALL VERIFY WITH PSE&G  
SERVICE: 120V/208V/3Ø/4 WIRE  
MAIN: 200 AMP MAIN

BRANCHES: 42  
BUSSING: 1200 AMP  
FEED: TOP  
MOUNTING: RECESSED

SERVICE	LOAD	AVG	OKT	A	B	C	OKT	AVG	LOAD	SERVICE
EMERGENCY LIGHTING	700	12	1	20			15/2	2	12	700
RECEPTACLES	900	12	3	20			15/2	4	12	1500
RECEPTACLES	900	12	5	20			15/2	6	12	1500
RECEPTACLES	900	12	7	20			15/2	8	12	1500
RECEPTACLES	900	12	9	20			15/2	10	12	1500
RECEPTACLES	900	12	11	20			15/2	12	12	1500
RECEPTACLES	900	12	13	20			15/2	14	12	1500
RECEPTACLES	900	12	15	20			15/2	16	12	1500
RECEPTACLES	1000	12	17	20			15/2	18	12	1500
RECEPTACLES	1000	12	19	20			15/2	20	12	1500
RECEPTACLES	2500	6	21	15/2			22	12	1500	EXTERIOR LIGHTING
RECEPTACLES	2500	6	23	15/2			24	12	1500	DECK LIGHTING
RECEPTACLES	900	12	25	20			26	12	1500	STAIR LIGHTING
RECEPTACLES	900	12	27	20			28	8	1000	DUMB WHEEL (NEWBY)
ELECTRIC HEATER	1500	12	29	20			30	8	1000	LIGHTING CONTACTOR
ELECTRIC HEATER	1500	12	31	20			32	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	33	20			34	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	35	20			36	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	37	20			38	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	39	20			40	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	41	20			42	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	43	20			44	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	45	20			46	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	47	20			48	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	49	20			50	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	51	20			52	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	53	20			54	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	55	20			56	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	57	20			58	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	59	20			60	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	61	20			62	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	63	20			64	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	65	20			66	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	67	20			68	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	69	20			70	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	71	20			72	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	73	20			74	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	75	20			76	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	77	20			78	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	79	20			80	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	81	20			82	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	83	20			84	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	85	20			86	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	87	20			88	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	89	20			90	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	91	20			92	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	93	20			94	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	95	20			96	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	97	20			98	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	99	20			100	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	101	20			102	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	103	20			104	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	105	20			106	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	107	20			108	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	109	20			110	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	111	20			112	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	113	20			114	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	115	20			116	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	117	20			118	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	119	20			120	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	121	20			122	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	123	20			124	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	125	20			126	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	127	20			128	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	129	20			130	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	131	20			132	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	133	20			134	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	135	20			136	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	137	20			138	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	139	20			140	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	141	20			142	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	143	20			144	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	145	20			146	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	147	20			148	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	149	20			150	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	151	20			152	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	153	20			154	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	155	20			156	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	157	20			158	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	159	20			160	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	161	20			162	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	163	20			164	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	165	20			166	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	167	20			168	12	1500	ELECTRIC HEATER
ELECTRIC HEATER	1500	12	169	20		</				