Panel **MDPA** | ROOM MECH/ELEC RM 15 | MOUNTING SURFACE | FED FROM MDP | NOTE | VOLTS 208Y/120V 3P 4W | BUS AMPS 1200 | NEUTRAL 100% | AIC 65,000 | MAIN BKR MLO | LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	225/3	57.8	PANEL 7L	a	2	400/3	77	PANEL M
3	|			b	4	|		
5	|			c	6	|		
7	70/3	0	PANEL S	a	8	20/1	0	SPACE
9	|			b	10	20/1	0	SPACE
11	|			c	12	20/1	0	SPACE
13	175/3	0	DOUBLE TUB PANEL P	a	14	20/1	0	SPACE
15	|			b	16	20/1	0	SPACE
17	|			c	18	20/1	0	SPACE
19	450/3	0	DOUBLE TUB PANEL A	a	20	20/1	0	SPACE
21	|			b	22	20/1	0	SPACE
23	|			c	24	20/1	0	SPACE
25	125/3	0	PANEL L	a	26	20/1	0	SPACE
27	|			b	28	20/1	0	SPACE
29	|			c	30	20/1	0	SPACE
31	80/3	0	PANEL L2	a	32	20/1	0	SPACE
33	|			b	34	20/1	0	SPACE
35	|			c	36	20/1	0	SPACE
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	0	SPACE	b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	11.7	14.6	(125%)	RECEPTACLES	48.7	29.3	(50%>10)
LARGEST MOTOR	5.23	1.31	(25%)	HEATING	20.4	0	(0%)
MOTORS	0.86	0.86	(100%)	COOLING	73.6	73.6	(100%)
				TOTAL LOAD		120	
				BALANCED 3-PHASE LOAD		332 A	
				PHASE A		99.9%	
				PHASE B		103%	
				PHASE C		97.6%	

Panel **M** | ROOM MECH/ELEC RM 15 | MOUNTING SURFACE | FED FROM MDPA | NOTE | VOLTS 208Y/120V 3P 4W | BUS AMPS 400 | NEUTRAL 100% | AIC 65,000 | MAIN BKR MLO | LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	45/2	4.69	CU-1	a	2	20/1	0.1	EF-1
3	|			b	4	20/1	0.1	EF-2
5	50/2	5.23	CU-2	c	6	20/1	1.66	F-1
7	|			a	8	20/1	1.66	F-2
9	45/2	4.69	CU-3	b	10	20/1	1.66	F-3
11	|			c	12	20/1	1.66	F-4
13	45/2	4.69	CU-4	a	14	20/1	1.66	F-5
15	|			b	16	20/1	1.66	F-6
17	45/2	4.69	CU-5	c	18	20/1	1.66	F-7
19	|			a	20	20/1	1.92	F-8
21	45/2	4.69	CU-6	b	22	20/1	1.92	F-9
23	|			c	24	20/1	1.66	F-10
25	45/2	4.69	CU-7	a	26	20/1	1.66	F-11
27	|			b	28	20/1	1.66	F-12
29	50/2	5.23	CU-8	c	30	20/1	0.24	WH-1
31	|			a	32	20/1	0.24	WH-2
33	50/2	5.23	CU-9	b	34	20/1	0.18	CP-1
35	|			c	36	20/1	0.54	TRAP PRIMER
37	45/2	4.69	CU-12	a	38	20/1	0.54	TRAP PRIMER
39	|			b	40	20/1	0.72	TRAP PRIMER
41	45/2	4.69	CU-10	c	42	20/1	0.72	TRAP PRIMER
43	|			a	44	20/1	0	SPACE
45	20/1	0	SPACE	b	46	20/1	0	SPACE
47	20/1	0	SPACE	c	48	20/1	0	SPACE
49	20/1	0	SPACE	a	50	20/1	0	SPACE
51	20/1	0	SPACE	b	52	20/1	0	SPACE
53	20/1	0	SPACE	c	54	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LARGEST MOTOR	5.23	1.31	(25%)	RECEPTACLES	2.52	2.52	(50%>10)
MOTORS	0.86	0.86	(100%)	HEATING	20.4	0	(0%)
				COOLING	73.6	73.6	(100%)
				TOTAL LOAD		78.3	
				BALANCED 3-PHASE LOAD		217 A	
				PHASE A		105%	
				PHASE B		95.8%	
				PHASE C		98.8%	

Panel **7L** | ROOM MECH/ELEC RM 15 | MOUNTING SURFACE | FED FROM MDPA | NOTE DOUBLE-TUB | VOLTS 208Y/120V 3P 4W | BUS AMPS 225 | NEUTRAL 100% | AIC 65,000 | MAIN BKR MLO | LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	1.17	LIGHTING	a	2	20/1	1	FRIDGE
3	20/1	1.65	LIGHTING	b	4	20/1	1.5	FREEZER
5	20/1	1.49	LIGHTING	c	6	20/1	1.5	FREEZER
7	20/1	0.51	LIGHTING	a	8	20/1	1	FRIDGE
9	20/1	1.72	LIGHTING	b	10	20/1	1.5	FREEZER
11	20/1	1.09	LIGHTING	c	12	20/1	1	FRIDGE
13	20/1	1.72	LIGHTING	a	14	20/1	0.3	WATER COOLER
15	20/1	1.72	LIGHTING	b	16	20/1	0.3	WATER COOLER
17	20/1	0.314	LIGHTING	c	18	20/1	0.72	RM 16 RECEPTACLE, SMARTBOARD
19	20/1	0.312	LIGHTING	a	20	20/1	0.36	RM 16 RECEPTACLE
21	20/1	0.72	RM 2 RECEPTACLE	b	22	20/1	0.54	RM 16 RECEPTACLE
23	20/1	0.72	RM 4 RECEPTACLE, SMARTBOARD	c	24	20/1	0.36	RM 16 DROP CORDS
25	20/1	0.54	RM 4 RECEPTACLE	a	26	20/1	0.36	RM 16 DROP CORDS
27	20/1	0.54	RM 4 RECEPTACLE	b	28	20/1	0.36	RM 16 RECEPTACLE
29	20/1	0.72	RM 7 RECEPTACLE, SMARTBOARD	c	30	20/1	0.54	RM 17 RECEPTACLE
31	20/1	0.54	RM 7 RECEPTACLE	a	32	20/1	0.54	RM 17 RECEPTACLE
33	20/1	0.54	RM 7 RECEPTACLE	b	34	20/1	0.36	RM 18 RECEPTACLE
35	20/1	0.54	RM 9 RECEPTACLE	c	36	20/1	0.36	RM 16 DROP CORD
37	20/1	0.54	RM 9 RECEPTACLE	a	38	20/1	0.36	RM 18 RECEPTACLE
39	20/1	0.72	RM 9 RECEPTACLE, SMARTBOARD	b	40	20/1	0.54	RM 18 RECEPTACLE
41	20/1	0.54	EXTERIOR RECEPTACLE, RECEPTACLE, VESTIBULE RECEPTACLE	c	42	20/1	0.36	RM 16 DROP CORD
43	20/1	0.54	RESTROOM RECEPTACLE	a	44	20/1	0.72	RM 18 RECEPTACLE, SMARTBOARD
45	20/1	0.72	CORRIDOR 10 RECEPTACLE	b	46	20/1	0.54	RECEPTACLE
47	20/1	0.54	CORRIDOR 10 RECEPTACLE, EXTERIOR RECEPTACLE, VESTIBULE RECEPTACLE	c	48	20/1	0.54	EXTERIOR RECEPTACLE, RECEPTACLE, VESTIBULE RECEPTACLE
49	20/1	0.72	RM 5 RECEPTACLE, SMARTBOARD	a	50	20/1	0.36	CORRIDOR 24 RECEPTACLE
51	20/1	0.54	RM 5 RECEPTACLE	b	52	20/1	0.54	CORRIDOR 24 RECEPTACLE, EXTERIOR RECEPTACLE, VESTIBULE RECEPTACLE
53	20/1	0.54	RM 5 RECEPTACLE	c	54	20/1	0.72	RM 25 RECEPTACLE, SMARTBOARD
55	20/1	0.72	RM 6 RECEPTACLE, SMARTBOARD	a	56	20/1	0.54	RM 25 RECEPTACLE
57	20/1	0.54	RM 6 RECEPTACLE	b	58	20/1	0.36	RM 25 RECEPTACLE
59	20/1	0.54	RM 6 RECEPTACLE	c	60	20/1	0.36	RM 25 DROP CORD
61	20/1	0.54	RM 8 RECEPTACLE	a	62	20/1	0.36	RM 25 DROP CORD
63	20/1	0.54	RM 8 RECEPTACLE	b	64	20/1	0.36	RM 25 RECEPTACLE
65	20/1	0.72	RM 8 RECEPTACLE, SMARTBOARD	c	66	20/1	0.54	RM 26 RECEPTACLE
67	20/1	0.5	IT RECEPTACLE	a	68	20/1	0.54	RM 26 RECEPTACLE
69	20/1	0.5	IT RECEPTACLE	b	70	20/1	0.36	RM 27 RECEPTACLE
71	20/1	0.5	IT RECEPTACLE	c	72	20/1	0.36	RM 27 DROP CORD
73	20/1	0.36	RM 14 RECEPTACLE, RM 15 RECEPTACLE	a	74	20/1	0.36	RM 27 DROP CORD
75	20/1	0.72	RM 23 RECEPTACLE, SMARTBOARD	b	76	20/1	0.54	RM 27 RECEPTACLE
77	20/1	0.36	RM 23 RECEPTACLE	c	78	20/1	0.36	RM 27 RECEPTACLE
79	20/1	0.36	RM 23 DROP CORD	a	80	20/1	0.72	RM 27 RECEPTACLE, SMARTBOARD
81	20/1	0.54	RM 23 RECEPTACLE	b	82	20/1	0.72	ROOFTOP RECEPTACLE
83	20/1	0.36	RM 23 DROP CORD	c	84	20/1	0.18	DOOR HOLD
85	20/1	0.36	RM 23 RECEPTACLE	a	86	20/1	0	SPACE
87	20/1	0.54	RM 22 RECEPTACLE	b	88	20/1	0	SPACE
89	20/1	0.54	RM 22 RECEPTACLE	c	90	20/1	0	SPACE
91	20/1	0.36	RM 21 RECEPTACLE	a	92	20/1	0	SPACE
93	20/1	0.36	RM 21 DROP CORD	b	94	20/1	0	SPACE
95	20/1	0.36	RM 21 DROP CORD	c	96	20/1	0	SPACE
97	20/1	0.54	RM 21 RECEPTACLE	a	98	20/1	0	SPACE
99	20/1	0.36	RM 21 RECEPTACLE	b	100	20/1	0	SPACE
101	20/1	0.72	RM 21 RECEPTACLE, SMARTBOARD	c	102	20/1	0	SPACE
103	20/1	0	SPACE	a	104	20/1	0	SPACE
105	20/1	0	SPACE	b	106	20/1	0	SPACE
107	20/1	0	SPACE	c	108	20/1	0	SPACE

	CONN KVA	CALC KVA			CALC KVA
LIGHTING	11.7	14.6	(125%)	TOTAL LOAD	42.7
RECEPTACLES	46.1	28.1	(50%>10)	BALANCED 3-PHASE LOAD	118 A
				PHASE A	92.6%
				PHASE B	111%
				PHASE C	98%

MECHANICAL EQUIPMENT SCHEDULE

CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC FURN BY	DISC INST BY
CP-1	CIRCULATION PUMP	120V 1P 2W		0.18		20	M-34	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
CU-1	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-1,3	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-2	CONDENSING UNIT	208V 2P 2W		5.23	31.4	50	M-5,7	3/4"C,2#8,#10G	NON-FUSED	EC	EC
CU-3	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-9,11	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-4	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-13,15	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-5	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-17,19	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-6	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-21,23	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-7	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-25,27	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-8	CONDENSING UNIT	208V 2P 2W		5.23	31.4	50	M-29,31	3/4"C,2#8,#10G	NON-FUSED	EC	EC
CU-9	CONDENSING UNIT	208V 2P 2W		5.23	31.4	50	M-33,35	3/4"C,2#8,#10G	NON-FUSED	EC	EC
CU-10	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-41,43	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-11	CONDENSING UNIT	240V 2P 2W		4.69	28.2	45			NON-FUSED	EC	EC
CU-12	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-37,39	3/4"C,2#10,#10G	NON-FUSED	EC	EC
EF-1	EXHAUST FAN	120V 1P 2W	F HP	0.1	3.8	20	M-2	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MC
EF-2	EXHAUST FAN	120V 1P 2W	F HP	0.1	3.8	20	M-4	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MC
F-1	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-6	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F-2	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-8	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-3	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-10	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-4	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-12	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F-5	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-14	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F-6	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-16	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-7	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-18	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-8	GAS FURNACE	120V 1P 2W	1 HP	1.92	14.7	20	M-20	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F-9	GAS FURNACE	120V 1P 2W	1 HP	1.92	14.7	20	M-22	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-10	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-24	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F-11	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-26	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-12	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-28	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
WH-1	WATER HEATER	120V 1P 2W		0.24	2	20	M-30	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
WH-2	WATER HEATER	120V 1P 2W		0.24	2	20	M-32	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC

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revisions

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