Panelboard: PA1

Location: ELEC. 105 | **Supply From:** | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 208Y/120 Vac | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: | **Mains Type:** | **Mains Rating:** 225 A | **MCB Rating:** 225 A

Notes:

CKT	Load Name	Trip	Pole	A	A	B	B	C	C	Pole	Trip	Load Name	CKT
1	1st Floor Plan A Electrical Room Receptacles	20 A	1	0.54	0.54					1	20 A	1st Floor Plan A Recetpacles	2
3	1st Floor Plan A Exhaust Fan	20 A	1			0.06	0.72			1	20 A	1st Floor Plan A Recetpacles	4
5									0.54	1	20 A	1st Floor Plan A Recetpacles	6
7	Plan A Exterior Receptacles	20 A	1	0.54	0.36					1	20 A	1st/2nd Floor Plan A Recetpacles	8
9	1st/2nd Floor Plan A Recetpacles	20 A	1			0.18	0.90			1	20 A	1st Floor Plan A Corridor Lighting	10
11	1st Floor Plan A Utility Lighting	20 A	1					0.19	0.13	1	20 A	1st Floor Plan A Utility Lighting	12
13	Plan A Stairwell Lighting	20 A	1	0.08	1.13					1	20 A	1st Floor Plan A Ceiling Fans	14
15	2nd Floor Plan A Exhaust Fan	20 A	1			0.06	0.36			1	20 A	2nd Floor Plan A Electrical Room Receptacles	16
17	2nd Floor Plan A Recetpacles	20 A	1					0.54	0.72	1	20 A	2nd Floor Plan A Recetpacles	18
19	2nd Floor Plan A Corridor Lighting	20 A	1	0.61	1.05					1	20 A	2nd Floor Plan A Ceiling Fans	20
21	2nd Floor Plan A Utility Lighting	20 A	1			0.13	0.19			1	20 A	2nd Floor Plan A Utility Lighting	22
23	3rd Floor Plan A Panel PA3	125 A	3					5.81	1.80	1	20 A	2nd Floor Plan A Time Clock	24
25	--	--	--	7.47	1.80					1	20 A	2nd Floor Plan A Time Clock	26
27	--	--	--			4.42	1.80			1	20 A	1st Floor Plan A Time Clock	28
29	1st Floor Plan A Time Clock	20 A	1					1.80	1.80	1	20 A	1st Floor Plan A Time Clock	30
31	Elevator Machine Room Condenser/AC Unit	15 A	2	1.40	1.20					1	20 A	Sump Pump	32
33	--	--	--			1.40							34
35													36
37													38
39													40
41													42
43													44
45													46
47													48
49													50
51													52
53													54
			Total Load:	16.71		10.18		13.31		kVA			
			Total Amps:	143.24		84.80		114.95		AMPS			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	20475 VA	100.00%	20475 VA		
Lighting	3730 VA	125.00%	4663 VA	Total Conn. Load:	40.19 kVA
Lighting - Dwelling Unit	300 VA	100.00%	300 VA	Total Est. Demand:	40.37 kVA
Motor	251 VA	106.25%	266 VA	Total Conn.:	111.55 A
Other	1200 VA	100.00%	1200 VA	Total Est. Demand:	112.05 A
Power	2800 VA	100.00%	2800 VA		
Receptacle	11520 VA	93.40%	10760 VA		

Notes:

Panelboard: PA3

Location: | **Supply From:** PA1 | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 208Y/120 Vac | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: | **Mains Type:** | **Mains Rating:** 125 A | **MCB Rating:** N/A

Notes:

CKT	Load Name	Trip	Pole	A	A	B	B	C	C	Pole	Trip	Load Name	CKT
1	3rd Floor Plan A Exhaust Fan	20 A	1	0.06	0.54					1	20 A	3rd Floor Plan A Electrical Room Receptacles	2
3	3rd Floor Plan A Receptacles	20 A	1			0.54	0.36			1	20 A	3rd/4th Floor Plan A Receptacles	4
5	3rd Floor Plan A Receptacles	20 A	1					0.72	0.36	1	20 A	3rd/4th Floor Plan A Receptacles	6
7	3rd Floor Plan A Utility Lighting	20 A	1	0.19	0.13					1	20 A	3rd Floor Plan A Utility Lighting	8
9	3rd Floor Plan A Corridor Lighting	20 A	1			0.59	1.05			1	20 A	3rd Floor Plan A Ceiling Fans	10
11	4th Floor Plan A Ceiling Fans	20 A	1					1.05	0.54	1	20 A	4th Floor Plan A Electrical Room Receptacles	12
13	4th Floor Plan A Exhaust Fan	20 A	1	0.06	0.54					1	20 A	4th Floor Plan A Receptacles	14
15	4th Floor Plan A Receptacles	20 A	1			0.72	0.61			1	20 A	4th Floor Plan A Corridor Lighting	16
17	4th Floor Plan A Utility Lighting	20 A	1					0.19	0.13	1	20 A	4th Floor Plan A Utility Lighting	18
19	4th Floor Plan A Time Clock	20 A	1	1.80	1.80					1	20 A	4th Floor Plan A Time Clock	20
21	3rd Floor Plan A Time Clock	20 A	1			1.80	1.80			1	20 A	3rd Floor Plan A Time Clock	22
23	Roof Conv Outlets	20 A	1					0.72	0.72	1	20 A	Roof Conv Outlets	24
25	Roof Conv Outlets	20 A	1	0.72									26
27													28
29													30
			Total Load:	5.81		7.47		4.42		kVA			
			Total Amps:	50.18		64.01		36.79		AMPS			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	9300 VA	100.00%	9300 VA		
Lighting	1816 VA	125.00%	2270 VA	Total Conn. Load:	17.69 kVA
Motor	125 VA	112.50%	141 VA	Total Est. Demand:	18.15 kVA
Receptacle	6480 VA	100.00%	6480 VA	Total Conn.:	49.10 A
				Total Est. Demand:	50.39 A

Notes:

DISTRIBUTION PANEL (MDP House)

VOLTAGE 208/120
3 PHASE
4-WIRE
BUS (AMPS) 800
MCB (AMPS) 800
65K AIC

POLES	TRIP	DESCRIPTION	DF	CONNECTED LOAD KVA	CONNECTED LOAD AMPS	DEMAND LOAD KVA	DEMAND LOAD AMPS
3 POLE	225	PA1/PA3	1.00	34	95	35	97
3 POLE	225	PB1/PB3	1.00	33	93	34	95
3 POLE	125	ELEVATOR	1.00	37	100	37	100
3 POLE	125	ELEVATOR	1.00	37	100	37	100
3 POLE							
3 POLE							
			TOTAL	141.0	388.0	143.0	[illegible]1.6
			SPARE AMPS				[illegible]08.4
			80% MAX AMPS				[illegible]40

Panelboard: PB1

Location: ELEC. 109 | **Supply From:** | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 208Y/120 Vac | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: | **Mains Type:** | **Mains Rating:** | **MCB Rating:** N/A

Notes:

CKT	Load Name	Trip	Pole	A	A	B	B	C	C	Pole	Trip	Load Name	CKT
1	1st Floor Plan B Electrical Room Receptacles	20 A	1	0.36	0.06					1	20 A	1st Floor Plan B Exhaust Fan	2
3	1st Floor Plan B Receptacles	20 A	1			0.72	0.54			1	20 A	1st/2nd Floor Plan B Receptacles	4
5	1st Floor Plan B Receptacles	20 A	1					0.90	0.36	1	20 A	1st/2nd Floor Plan B Receptacles	6
7	1st Floor Plan B Receptacles	20 A	1	0.18	0.63					1	20 A	1st Floor Plan B Corridor Lighting	8
9	1st Floor Plan B Ceiling Fans	20 A	1			1.20	0.19			1	20 A	1st Floor Plan B Utility Lighting	10
11	1st Floor Plan B Utility Lighting	20 A	1					0.26	0.08	1	20 A	Plan B Stairwell Lighting	12
13	2nd Floor Plan B Corridor Lighting	20 A	1	0.38	0.90					1	20 A	2nd Floor Plan B Ceiling Fans	14
15	2nd Floor Plan B Utility Lighting	20 A	1			0.19	0.26			1	20 A	2nd Floor Plan B Utility Lighting	16
17	2nd Floor Plan B Exhaust Fan	20 A	1					0.06	0.54	1	20 A	2nd Floor Plan B Electrical Room Receptacles	18
19	2nd Floor Plan B Receptacles	20 A	1	0.54	0.54					1	20 A	2nd Floor Plan B Receptacles	20
21	3rd Floor Plan B Panel PB3	125 A	3			9.39	1.80			1	20 A	2nd Floor Plan B Time Clock	22
23	--	--	--					3.72	1.80	1	20 A	2nd Floor Plan B Time Clock	24
25	--	--	--	4.08	1.80					1	20 A	1st Floor Plan B Time Clock	26
27	1st Floor Plan B Time Clock	20 A	1			1.80	1.80			1	20 A	1st Floor Plan B Time Clock	28
29	Building Fire Alarm Control Panel	20 A	1					0.50	1.40	2	15 A	Elevator Machine Room Condenser/AC Unit	30
31	Sump Pump	20 A	1	1.20	1.40					--	--	--	32
33													34
35													36
37													38
39													40
41													42
43													44
45													46
47													48
49													50
51													52
53													54
			Total Load:	12.05		17.86		9.59		kVA			
			Total Amps:	103.59		151.96		79.92		AMPS			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	20100 VA	100.00%	20100 VA		
Lighting	3405 VA	125.00%	4256 VA	Total Conn. Load:	39.50 kVA
Motor	251 VA	106.25%	266 VA	Total Est. Demand:	[illegible]9.68 kVA
Other	1700 VA	100.00%	1700 VA	Total Conn.:	[illegible]9.63 A
Power	2800 VA	100.00%	2800 VA	Total Est. Demand:	[illegible]4 A
Receptacle	11340 VA	94.09%	10670 VA		

Notes:

Panelboard: PB3

Location: | **Supply From:** PB1 | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 208Y/120 Vac | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: | **Mains Type:** | **Mains Rating:** | **MCB Rating:** [illegible]

Notes:

CKT	Load Name	Trip	Pole	A	A	B	B	C	C	Pole	Trip	Load Name	CKT
1	3rd Floor Plan B Time Clock	20 A	1	1.80	1.80					[illegible]	20 A	3[illegible] B T[illegible]e Clock	2
3	3rd Floor Plan B Electrical Room Receptacles	20 A	1			0.54	0.54			[illegible]	20 A	3r[illegible] Floor [illegible]eptacles	4
5	3rd Floor Plan B Exhaust Fan	20 A	1					0.0[illegible]	0.72	1	[illegible]	3r[illegible]oor Plan [illegible]ptacles	6
7	3rd/4th Floor Plan B Receptacles	20 A	1	0.36	0.36					1	[illegible]	3rd/[illegible]h Floor Plan [illegible]eceptacles	8
9	3rd Floor Plan B Ceiling Fans	20 A	1			0.90	0.72			1	20 [illegible]	[illegible]onv Outlets	10
11	3rd Floor Plan B Utility Lighting	20 A	1					0.26	0.19	1	20 A	3[illegible]or Plan B Utility Lighting	12
13	4th Floor Plan B Time Clock	20 A	1	1.80	1.8[illegible]					1	20 A	4th F[illegible]r Plan B Time Clock	14
15	4th Floor Plan B Exhaust Fan	20 A	1			0.06	[illegible]			1	20 A	4th Floor Plan B Electrical Room Receptacles	16
17	4th Floor Plan B Receptacles	20 A	1					[illegible]54	[illegible].90	1	20 A	4th Floor Plan B Receptacles	18
19	4th Floor Plan B Corridor Lighting	20 A	1	0.57	[illegible]					1	20 A	4th Floor Plan B Ceiling Fans	20
21	4th Floor Plan B Utility Lighting	20 A	1			[illegible]	0.[illegible]			1	20 A	4th Floor Plan B Utility Lighting	22
23	Roof Conv Outlets	20 A	1					0.72	[illegible]72	1	20 A	Roof Conv Outlets	24
25													26
27													28
29													30
			Total Load:	9.39		3.72		4.08		kVA			
			Total Amps:	78.69		31.00		34.46		AMPS			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	900[illegible] VA	100.00%	9000 VA		
Lighting	[illegible]46 VA	125.00%	1807 VA	Total Conn. Load:	17.18 kVA
Motor	125 VA	112.50%	141 VA	Total Est. Demand:	17.55 kVA
Receptacle	6660 VA	100.00%	6660 VA	Total Conn.:	47.69 A
				Total Est. Demand:	48.72 A

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SHEET TITLE
ELECTRICAL PANEL SCHEDULES

NOV. 03, 2015

Revision Schedule		
No.	Description	Date

PROJECT NO. 0540-19-0010
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E006