SE RATED DISTRIBUTION PANEL SCHEDULE - 'MDP'

MAIN: 600A MCB GFI /SHUNT | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4
MTG: SURFACE | AIC: 22,000 | NOTES:

CKT #	CIRCUIT BREAKER FRAME	TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A	B	C
1	200	200	3	3/0	2"	PANEL '1AC'	0.0	0.0	55.8	0.0	0.0	0.0	0.0			
	-	-	-			-	0.0	0.0	59.8	0.0	0.0	0.0	0.0			
	-	-	-			-	0.0	0.0	59.5	0.0	0.0	0.0	0.0			
2	400	350	3	350	3"	PANEL '2AC'	0.0	0.0	0.0	34.2	0.0	0.0	0.0			
	-	-	-			-	0.0	0.0	0.0	34.2	0.0	0.0	0.0			
	-	-	-			-	0.0	0.0	0.0	34.2	0.0	0.0	0.0			
3	100	100	3	3	1 1/4"	PANLE '1L'	11.9	2.8	0.0	1.3	10.5	0.0	2.1			
	-	-	-			-	9.6	2.9	3.9	1.3	0.0	0.0	4.5			
	-	-	-			-	5.7	4.1	3.9	0.0	1.5	0.0	2.2			
4						SPACE										
	-	-	-			-										
	-	-	-			-										
5	100	100	3	3	1 1/4"	ELEVATOR 50 HP			14.4							
	-	-	-			SHUNT TRIP BREAKER			14.4							
	-	-	-			-			14.4							
6	100	100	3	3	1 1/4"	ELEVATOR 50 HP			14.4							
	-	-	-			SHUNT TRIP BREAKER			14.4							
	-	-	-			-			14.4							
7						SPACE										
	-	-	-			-										
	-	-	-			-										
8						SPACE										
	-	-	-			-										
	-	-	-			-										
9						SPACE										
	-	-	-			-										
	-	-	-			-										
10						SPACE										
	-	-	-			-										
	-	-	-			-										
							27.1	9.8	273.3	105.2	12.0	0.0	8.8			

CONNECTED LOAD (KVA):	436.3			
DEMAND LOAD (KVA):	443.1	PHASE A	546.2	151.3
		PHASE B	523.0	144.9
CONNECTED LOAD (AMPS):	524.9	PHASE C	505.8	140.1
DEMAND LOAD (AMPS):	532.9	AMPS		KVA

NOTES:
BASIS OF DESIGN BASED ON SQUARE D EQUIPMENT

'MDP' DEMAND CALCS

LIGHTING	27.13	KVA	X	125	%	= **33.9 KVA**
RECEPTACTOTAL	9.78	KVA				
1ST	10.00	KVA	X	100	%	= **9.8 KVA**
REMAIN	0.00	KVA	X	50	%	= **0.0 KVA**
MOTORS	273.34	KVA	X	100	%	= **273.3 KVA**
A/C	105.22	KVA	X	100	%	= **105.2 KVA**
HEATING	12.00	KVA	X	100	%	= **12.0 KVA**
LOCKED-OUT LOAD		KVA	X	100	%	= **0.0 KVA**
KITCHEN	0.00	KVA	X	65	%	= **0.0 KVA**
MISCELLANEOUS	8.80	KVA	X	100	%	= **8.8 KVA**
TOTAL	=	**532.9 amps**				= **443.1 KVA**

PANELBOARD SCHEDULE - '1L'

MAIN: 125A MLO | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 22,000 | NOTES:

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A	B	C	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1	20	1	12	1/2"	STAIR SOUTHWEST	0.3										1.5							LIGHTS 1ST FLOOR	1/2"	12	1	20	2
3	20	1	12	1/2"	STAIR NORTH	0.3										2.4							LIGHTS 1ST FLOOR	1/2"	12	1	20	4
5	20	1	12	1/2"	SHOWROOM NORTH	0.7																0.2	LIGHTING CONTROL	1/2"	12	1	20	6
7	20	1	12	1/2"	SHOWROOM MIDDLE	0.3																	SPACE	1/2"	12	1	20	8
9	20	1	12	1/2"	SHOWROOM SOUTH	0.4										0.9							OFFICE LIGHTS	1/2"	12	1	20	10
11	20	1	12	1/2"	FIRE RISER	0.1										2.3							LIGHTS 2ND	1/2"	12	1	20	12
13	20	1	12	1/2"	LIGHTS 3RD	2.3										2.7							LIGHTS 2ND	1/2"	12	1	20	14
15	20	1	12	1/2"	LIGHTS 3RD	2.6										1.2							SIGN LIGHTING	1/2"	12	1	20	16
17	20	1	12	1/2"	SIGN LIGHTING	1.2										1.2							SIGN LIGHTING	1/2"	12	1	20	18
19	20	1	12	1/2"	EXTERIOR LIGHTS	0.4										1.2							SIGN LIGHTING	1/2"	12	1	20	20
21	20	1	12	1/2"	EXTERIOR LIGHTS	0.5										1.2	2.9	3.9	1.3	0.0	0.0	4.5	PANEL '1P'					22
23	20	1	12	1/2"	EXTERIOR LIGHTS	0.2										0.0	4.1	3.9	0.0	1.5	0.0	2.0	VIA 45KVA	1 1/4"	4	3	70	24
25	40	1	8	3/4"	DWH-2					9.0						3.2	2.8	0.0	1.3	1.5	0.0	2.1	TRANSFORMER					26
27					SPACE																		SPACE					28
29					SPACE																		SPACE					30
31					SPACE																		SPACE					32
33					SPACE																		SPACE					34
35					SPACE																		SPACE					36
37					SPACE																		SPACE					38
39					SPACE																		SPACE					40
41					SPACE																		SPACE					42
LIGHTING (KVA):						27.1	9.3	0.0	0.0	0.0	9.0	0.0	0.0			17.8	9.8	7.8	2.6	3.0	0.0	8.8	CONNECTED LOAD (KVA):					65.9
RECEPTACLES (KVA):						9.8																	DEMAND LOAD (KVA):					74.9
MOTORS (KVA):						7.8								PHASE A	29	103.2												
A/C (KVA):						2.6								PHASE B	22	80.0							CONNECTED LOAD (AMPS):					82.0
HEATING (KVA):						12.0								PHASE C	17	62.8							DEMAND LOAD (AMPS):					90.1
KITCHEN (KVA):						0.0									KVA:	AMPS												
MISCELLANEOUS (KVA):						8.8																						

NOTES: BASIS OF DESIGN BASED ON SQUARE D EQUIPMENT.

PNL '1L' DEMAND CALCS

LIGHTING	27.13	KVA	X	125	%	= **33.9 KVA**
RECEPTACTOTAL	9.78	KVA				
1ST	10.00	KVA	X	100	%	= **9.8 KVA**
REMAIN	0.00	KVA	X	50	%	= **0.0 KVA**
MOTORS	7.78	KVA	X	100	%	= **7.8 KVA**
A/C	2.64	KVA	X	100	%	= **2.6 KVA**
HEATING	12.00	KVA	X	100	%	= **12.0 KVA**
LOCKED-OUT LOAD		KVA	X	100	%	= **0.0 KVA**
KITCHEN	0.00	KVA	X	65	%	= **0.0 KVA**
MISCELLANEOUS	8.80	KVA	X	100	%	= **8.8 KVA**
TOTAL	=	**90.1 amps**				= **74.9 KVA**

PANELBOARD SCHEDULE - '1P'

MAIN: 175A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 10,000 | NOTES:

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A	B	C	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1	20	1	12	1/2"	RECEPTACLES (1ST)		0.5															1.5	CCTV **	1/2"	12	1	20	2
3	20	1	12	1/2"	RECEPTACLES (1ST)		0.7															1.0	TELEPHONE **	1/2"	12	1	20	4
5	20	1	12	1/2"	RECEPT OFFICE		0.7															1.0	ACCESS CONTROL **	1/2"	12	1	20	6
7	20	1	12	1/2"	FIRE RISER		0.2															1.0	FACP **	1/2"	12	1	20	8
9	20	1	12	1/2"	RECEPT BACK ROOM		0.9																RECEPTACLES (2ND)	1/2"	12	1	20	10
11	20	1	12	1/2"	TRACK LIGHTS	1.0											0.5						RECEPTACLES (2ND)	1/2"	12	1	20	12
13	20	1	12	1/2"	RECEPTACLES (3RD)		1.1																SPARE			1	20	14
15	20	1	12	1/2"	RECEPTACLES (3RD)		0.5															1.0	POWER DOOR	1/2"	12	1	20	16
17	20	1	12	1/2"	TV/DESK RECEPTS		1.5															0.3	EWC *	1/2"	12	1	20	18
19	20	1	12	1/2"	RECEPTS		1.5									2.4							AH-1	3/4"	10	2	25	20
21	20	1	12	1/2"	RECEPT OFFICE											2.4												22
23	20	1	12	1/2"	ELEV. LAB LTS **														1.3				CU-1	1/2"	12	2	20	24
25	20	1	12		ELEV. LAB LTS **														1.3									26
27	20	1	12	1/2"	EXIT RECEPTACLE		0.2													1.5			DWH	1/2"	12	2	20	28
29	20	1	12	1/2"	RECEPTS	1.0														1.5			-					30
31	20	2	10	1/2"	JUMP PAD *		1.5															0.5	TWO-WAY COMM **	1/2"	12	1	20	32
33							1.5																SPACE					34
35	20	1	12	1/2"	REFRIGE *							0.8											SPACE					36
37	20	1	12	1/2"	SMALL APPLIANCE							1.5											SPACE					38
39					SPACE																		SPACE					40
41					SPACE																		SPACE					42
LIGHTING (KVA):						4.4	4.4	8.2	3.0	0.0	0.0	0.0	2.3			0.0	1.6	4.8	2.6	3.0	0.0	6.3	CONNECTED LOAD (KVA):					36.2
RECEPTACLES (KVA):						9.8																	DEMAND LOAD (KVA):					37.3
MOTORS (KVA):						7.8								PHASE A	14	114.9												
A/C (KVA):						2.6								PHASE B	12	96.1							CONNECTED LOAD (AMPS):					100.5
HEATING (KVA):						3.0								PHASE C	11	90.7							DEMAND LOAD (AMPS):					103.5
KITCHEN (KVA):						0.0									KVA:	AMPS												
MISCELLANEOUS (KVA):						8.6																						

NOTES: BASIS OF DESIGN BASED ON SQUARE D EQUIPMENT. * - INDICATES GFCI RECEPTACLES ** - INDICATES BREAKER WITH LOCK OFF DEVICE

PNL '1P' DEMAND CALCS

LIGHTING	4.40	KVA	X	125	%	= **5.5 KVA**
RECEPTACTOTAL	9.78	KVA				
1ST	10.00	KVA	X	100	%	= **9.8 KVA**
REMAIN	0.00	KVA	X	50	%	= **0.0 KVA**
MOTORS	7.78	KVA	X	100	%	= **7.8 KVA**
A/C	2.64	KVA	X	100	%	= **2.6 KVA**
HEATING	3.00	KVA	X	100	%	= **3.0 KVA**
LOCKED-OUT LOAD		KVA	X	100	%	= **0.0 KVA**
KITCHEN	0.00	KVA	X	65	%	= **0.0 KVA**
MISCELLANEOUS	8.60	KVA	X	100	%	= **8.6 KVA**
TOTAL	=	**103.5 amps**				= **37.3 KVA**

PANELBOARD SCHEDULE - '1AC'

MAIN: 400A MLO | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 22,000 | NOTES:

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A	B	C	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1					-			5.0										5.0					-					2
3	20	3	12	1/2"	AH-1.1			5.0										5.0					AH-1.2	1/2"	12	3	20	4
5					-			5.0										5.0					-					6
7					-			5.0										5.0					-					8
9	20	3	12	1/2"	AH-1.3			5.0										5.0					AH-1.4	1/2"	12	3	20	10
11								5.0										5.0										12
13					-			5.0										5.0					-					14
15	20	3	12	1/2"	AH-2.1			5.0										5.0					AH-2.2	1/2"	12	3	20	16
17					-			5.0										5.0					-					18
19					-			5.0										5.0					-					20
21	20	3	12	1/2"	AH-2.3			5.0										5.0					AH-2.4	1/2"	12	3	20	22
23					-			5.0										5.0					-					24
25					-			5.0										5.0					-					26
27	20	3	12	1/2"	AH-3.1			5.0										5.0					AH-3.2	1/2"	12	3	20	28
29					-			5.0										5.0					-					30
31					-			5.0										5.0					-					32
33	20	3	12	1/2"	AH-3.3			5.0										5.0					AH-3.4	1/2"	12	3	20	34
35					-			5.0										5.0					-					36
37					SPACE																		SPACE					38
39					SPACE																		SPACE					40
41					SPACE																		SPACE					42
LIGHTING (KVA):						0.0	0.0	0.0	98.6	0.0	0.0	0.0	0.0			0.0	0.0	89.6	0.0	0.0	0.0	0.0	CONNECTED LOAD (KVA):					179.3
RECEPTACLES (KVA):						0.0																	DEMAND LOAD (KVA):					179.3
MOTORS (KVA):						179.3								PHASE A	60	215.7												
A/C (KVA):						0.0								PHASE B	60	215.7							CONNECTED LOAD (AMPS):					215.6
HEATING (KVA):						0.0								PHASE C	60	215.7							DEMAND LOAD (AMPS):					215.6
KITCHEN (KVA):						0.0									KVA:	AMPS												
MISCELLANEOUS (KVA):						0.0																						

NOTES: BASIS OF DESIGN BASED ON SQUARE D EQUIPMENT

PNL '1AC' DEMAND CALCS

LIGHTING	0.00	KVA	X	125	%	= **0.0 KVA**
RECEPTACTOTAL	0.00	KVA				
1ST	10.00	KVA	X	100	%	= **0.0 KVA**
REMAIN	0.00	KVA	X	50	%	= **0.0 KVA**
MOTORS	179.28	KVA	X	100	%	= **179.3 KVA**
A/C	0.00	KVA	X	100	%	= **0.0 KVA**
HEATING	0.00	KVA	X	100	%	= **0.0 KVA**
LOCKED-OUT LOAD		KVA	X	100	%	= **0.0 KVA**
KITCHEN	0.00	KVA	X	65	%	= **0.0 KVA**
MISCELLANEOUS	0.00	KVA	X	100	%	= **0.0 KVA**
TOTAL	=	**215.6 amps**				= **179.3 KVA**

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E-301