

SWITCHBOARD MSA									
3000 A. MAIN C.B. SURFACE MOUNTING					208Y/120 VOLTS NEMA 3R 3 PHASE 4 WIRE, 60 HZ.				
42 K A. I. C. MINIMUM INTERRUPTING RATING									
SWITCH NUMBER	SERVICE DESIGNATION	FRAME SIZE (AMPS)	TRIP RATING (AMPS)	FEEDER	LOAD (KVA)				
					LTG.	REC.	MOTOR	EQUIP.	OTHER
1	SPD	30A/3P	30A	-	-	-	-	-	-
2	MCF	1600A/3P	1400A	-	-	-	-	-	2350
3	MCB	1600A/3P	1400A	-	-	-	-	-	1628
4	PANEL GDP	600A/3P	600A	-	13.2	2.8	56.0	69.4	-
5	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-
LOAD DESCRIPTION		CONN. LOAD	D.F.	CALC. LOAD	NOTES:				
LIGHTING - KVA		13.20	1.25	16.50					
RECEPTACLES - 1ST 10 KVA		2.80	1.00	2.80					
RECEPTACLES - ABOVE 10 KVA		0.00	0.50	0.00					
MOTORS - KVA		56.00	1.00	56.00					
EQUIPMENT - KVA		69.40	1.00	69.40					
OTHER - KVA		3978.00	0.23	914.94					
TOTAL - KVA		4119.40		1059.64					

EXISTING - NOT IN APARTMENT SCOPE

SWITCHBOARD MSB									
3000 A. MAIN C.B. SURFACE MOUNTING					208Y/120 VOLTS NEMA 3R 3 PHASE 4 WIRE, 60 HZ.				
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SWITCH NUMBER	SERVICE DESIGNATION	FRAME SIZE (AMPS)	TRIP RATING (AMPS)	FEEDER	LOAD (KVA)				
					LTG.	REC.	MOTOR	EQUIP.	OTHER
1	SPD	30A/3P	30A	-	-	-	-	-	-
2	MCA	1600A/3P	1400A	-	-	-	-	-	2116
3	MCC	1600A/3P	1400A	-	-	-	-	-	1692
4	PANEL CDP	1600A/3P	1400A	-	16.25	12.4	10.0	129.0	-
5	RTU-C	-	-	-	-	-	-	-	27.2
6	-	-	-	-	-	-	-	-	-
LOAD DESCRIPTION		CONN. LOAD	D.F.	CALC. LOAD	NOTES:				
LIGHTING - KVA		16.25	1.25	20.31					
RECEPTACLES - 1ST 10 KVA		10.00	1.00	10.00					
RECEPTACLES - ABOVE 10 KVA		2.40	0.50	1.20					
MOTORS - KVA		10.00	1.00	10.00					
EQUIPMENT - KVA		156.20	1.00	156.20					
OTHER - KVA		3808.00	0.23	875.84					
TOTAL - KVA		4002.85		1073.55					

PANELBOARD SCHEDULE "R1H"													
225 A. MAIN L. O. FLUSH MOUNTING							208/120 VOLTS NEMA 1 3 PHASE 4 WIRE, 60 HZ.						
22 K A. I. C. MINIMUM INTERRUPTING RATING													
LOAD KVA	SERVES	TRIP AMPS	POLES	WIRE	GND	SPACE NO.	GND WIRE	POLES	TRIP AMPS	SERVES	LOAD KVA	NOTES:	
												1	2
5.00	UH-5	30	2	10	10	1	2	10	2	30	UH-5	5.00	
5.00	UH-5	30	2	10	10	5	6	10	2	30	UH-5	5.00	
5.00	UH-5	30	2	10	10	9	10	10	2	30	UH-5	5.00	
5.00	UH-5	30	2	10	10	13	14	10	2	30	UH-5	5.00	
5.00	UH-5	30	2	10	10	17	18	-	-	-	-	-	
5.00	UH-5	30	2	10	10	19	20	-	-	-	-	-	
5.00	UH-5	30	2	10	10	21	22	-	-	-	-	-	
5.00	UH-5	30	2	10	10	23	24	-	-	-	-	-	
5.00	UH-5	30	2	10	10	25	26	-	-	-	-	-	
5.00	UH-5	30	2	10	10	27	28	-	-	-	-	-	
5.00	UH-5	30	2	10	10	29	30	-	-	-	-	-	
5.00	UH-5	30	2	10	10	31	32	-	-	-	-	-	
5.00	UH-5	30	2	10	10	33	34	-	-	-	-	-	
5.00	UH-5	30	2	10	10	35	36	-	-	-	-	-	
5.00	UH-5	30	2	10	10	37	38	-	-	-	-	-	
5.00	UH-5	30	2	10	10	39	40	-	-	-	-	-	
5.00	UH-5	30	2	10	10	41	42	-	-	-	-	-	
LOAD DESCRIPTION		CONN. LOAD	D.F.	CALC. LOAD	NOTES:								
LIGHTING - KVA		0.00	1.25	0.00									
RECEPTACLES - 1ST 10 KVA		0.00	1.00	0.00									
RECEPTACLES - ABOVE 10 KVA		0.00	0.50	0.00									
MOTORS - KVA		0.00	1.00	0.00									
EQUIPMENT - KVA		45.00	1.00	45.00									
OTHER - KVA		0.00	1.00	0.00									
TOTAL - KVA		45.00		45.00									

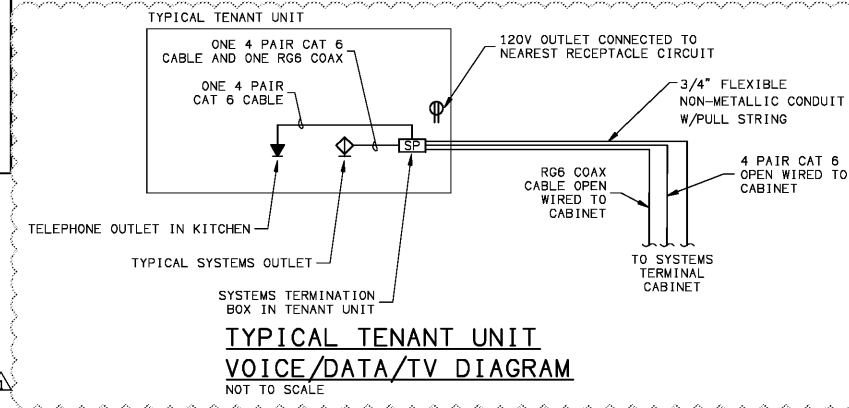
PANEL S1				
208/120 V, 1 PH., 3 W, 10KAIC				
125A, M. L. O.				
CIRCUIT NUMBER	BREAKER SIZE	WIRE SIZE	DESCRIPTION	LOAD
1-2	20A/1P	#12	APPLIANCE CIRCUIT	3000
3	20A/1P	#12	BATHROOM CIRCUIT	1500
4	20A/1P	#12	LAUNDRY CIRCUIT	1500
5, 7	30A/2P	#10	DRYER	5000
6, 8	50A/2P	#8	RANGE	8800
9	20A/1P	#12	DISHWASHER	1200
10, 12	40A/2P	#8	WATER HEATER	6000
11	20A/1P	#12	DISPOSAL	300
14-16	15A/1P	#14	GENERAL LIGHTING	1665
			555 SQ. FT. X 3	
13	15A/1P	#14	MICROWAVE	1000
-	-/-	-	-	0
-	-/-	-	-	0
TOTAL				28465
10KW @ 100%				10000
REMAINDER @ 40%				7386
LARGER OF HEAT OR A/C				5351
5351 A/C @ 100%				
- HEAT @ 65%				
TOTAL CALCULATED				22737
AMPS @ 208V, 1PHASE				109.3
TOTAL CONNECTED				33816

NOTE: ALL 15 AND 20 AMP CIRCUITS TO BE ARC FAULT PROTECTED.

PANEL S2				
208/120 V, 1 PH., 3 W, 10KAIC				
125A, M. L. O.				
CIRCUIT NUMBER	BREAKER SIZE	WIRE SIZE	DESCRIPTION	LOAD
1-2	20A/1P	#12	APPLIANCE CIRCUIT	3000
3	20A/1P	#12	BATHROOM CIRCUIT	1500
4	20A/1P	#12	LAUNDRY CIRCUIT	1500
5, 7	30A/2P	#10	DRYER	5000
6, 8	50A/2P	#8	RANGE	8800
9	20A/1P	#12	DISHWASHER	1200
10, 12	40A/2P	#8	WATER HEATER	6000
11	20A/1P	#12	DISPOSAL	300
14-16	15A/1P	#14	GENERAL LIGHTING	1944
			648 SQ. FT. X 3	
13	15A/1P	#14	MICROWAVE	1000
-	-/-	-	-	0
-	-/-	-	-	0
TOTAL				28744
10KW @ 100%				10000
REMAINDER @ 40%				7498
LARGER OF HEAT OR A/C				5351
5351 A/C @ 100%				
- HEAT @ 65%				
TOTAL CALCULATED				22849
AMPS @ 208V, 1PHASE				109.8
TOTAL CONNECTED				34095

NOTE: ALL 15 AND 20 AMP CIRCUITS TO BE ARC FAULT PROTECTED.

SWITCHBOARD MSC									
3000 A. MAIN C.B. SURFACE MOUNTING					208Y/120 VOLTS NEMA 3R 3 PHASE 4 WIRE, 60 HZ.				
42 K A. I. C. MINIMUM INTERRUPTING RATING									
SWITCH NUMBER	SERVICE DESIGNATION	FRAME SIZE (AMPS)	TRIP RATING (AMPS)	FEEDER	LOAD (KVA)				
					LTG.	REC.	MOTOR	EQUIP.	OTHER
1	SPD	30A/3P	30A	-	-	-	-	-	-
2	RETAIL WIREWAY	1600A/3P	1400A	-	-	-	-	455.0	-
3	MCE	1600A/3P	1400A	-	-	-	-	-	885
4	MCD	1600A/3P	1400A	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-
6	PANEL F	400A/3P	400A	-	3.12	1.60	-	78.82	-
LOAD DESCRIPTION		CONN. LOAD	D.F.	CALC. LOAD	NOTES:				
LIGHTING - KVA		3.12	1.25	3.90					
RECEPTACLES - 1ST 10 KVA		1.60	1.00	1.60					
RECEPTACLES - ABOVE 10 KVA		0.00	0.50	0.00					
MOTORS - KVA		0.00	1.00	0.00					
EQUIPMENT - KVA		533.82	1.00	533.82					
OTHER - KVA		79.20	0.23	524.22					
TOTAL - KVA		285.74		1063.54					



PANEL A1				
208/120 V, 1 PH., 3 W, 10KAIC				
125A, M. L. O.				
CIRCUIT NUMBER	BREAKER SIZE	WIRE SIZE	DESCRIPTION	LOAD
1-2	20A/1P	#12	APPLIANCE CIRCUIT	3000
3	20A/1P	#12	BATHROOM CIRCUIT	1500
4	20A/1P	#12	LAUNDRY CIRCUIT	1500
5, 7	30A/2P	#10	DRYER	5000
6, 8	50A/2P	#8	RANGE	8800
9	20A/1P	#12	DISHWASHER	1200
10, 12	40A/2P	#8	WATER HEATER	6000
11	20A/1P	#12	DISPOSAL	300
14-16	15A/1P	#14	GENERAL LIGHTING	1844
			615 SQ. FT. X 3	
13	15A/1P	#14	MICROWAVE	1000
-	-/-	-	-	0
-	-/-	-	-	0
TOTAL				28645
10KW @ 100%				10000
REMAINDER @ 40%				7458
LARGER OF HEAT OR A/C				5351
5351 A/C @ 100%				
- HEAT @ 65%				
TOTAL CALCULATED				22809
AMPS @ 208V, 1PHASE				109.7
TOTAL CONNECTED				33996

NOTE: ALL 15 AND 20 AMP CIRCUITS TO BE ARC FAULT PROTECTED.

PANEL A2				
208/120 V, 1 PH., 3 W, 10KAIC				
125A, M. L. O.				
CIRCUIT NUMBER	BREAKER SIZE	WIRE SIZE	DESCRIPTION	LOAD
1-2	20A/1P	#12	APPLIANCE CIRCUIT	3000
3	20A/1P	#12	BATHROOM CIRCUIT	1500
4	20A/1P	#12	LAUNDRY CIRCUIT	1500
5, 7	30A/2P	#10	DRYER	5000
6, 8	50A/2P	#8	RANGE	8800
9	20A/1P	#12	DISHWASHER	1200
10, 12	40A/2P	#8	WATER HEATER	6000
11	20A/1P	#12	DISPOSAL	300
14-16	15A/1P	#14	GENERAL LIGHTING	2064
			688 SQ. FT. X 3	
13	15A/1P	#14	MICROWAVE	1000
-	-/-	-	-	0
-	-/-	-	-	0
TOTAL				28864
10KW @ 100%				10000
REMAINDER @ 40%				7546
LARGER OF HEAT OR A/C				5351
5351 A/C @ 100%				
- HEAT @ 65%				
TOTAL CALCULATED				22897
AMPS @ 208V, 1PHASE				110.1
TOTAL CONNECTED				34215

NOTE: ALL 15 AND 20 AMP CIRCUITS TO BE ARC FAULT PROTECTED.

PANEL A3				
208/120 V, 1 PH., 3 W, 10KAIC				
125A, M. L. O.				
CIRCUIT NUMBER	BREAKER SIZE	WIRE SIZE	DESCRIPTION	LOAD
1-2	20A/1P	#12	APPLIANCE CIRCUIT	3000
3	20A/1P	#12	BATHROOM CIRCUIT	1500
4	20A/1P	#12	LAUNDRY CIRCUIT	1500
5, 7	30A/2P	#10	DRYER	5000
6, 8	50A/2P	#8	RANGE	8800
9	20A/1P	#12	DISHWASHER	1200
10, 12	40A/2P	#8	WATER HEATER	6000
11	20A/1P	#12	DISPOSAL	300
14-16	15A/1P	#14	GENERAL LIGHTING	2235
			745 SQ. FT. X 3	
13	15A/1P	#14	MICROWAVE	1000
21	20A/1P	#12	RECIRCULATING PUMP	828
-	-/-	-	-	0
TOTAL				29863
10KW @ 100%				10000
REMAINDER @ 40%				7945
LARGER OF HEAT OR A/C				5351
5351 A/C @ 100%				
- HEAT @ 65%				
TOTAL CALCULATED				23296
AMPS @ 208V, 1PHASE				112.0
TOTAL CONNECTED				35214

NOTE: ALL 15 AND 20 AMP CIRCUITS TO BE ARC FAULT PROTECTED.

PANEL A4				
208/120 V, 1 PH., 3 W, 10KAIC				
125A, M. L. O.				
CIRCUIT NUMBER	BREAKER SIZE	WIRE SIZE	DESCRIPTION	LOAD
1-2	20A/1P	#12	APPLIANCE CIRCUIT	3000
3	20A/1P	#12	BATHROOM CIRCUIT	1500
4	20A/1P	#12	LAUNDRY CIRCUIT	1500
5, 7	30A/2P	#10	DRYER	5000
6, 8	50A/2P	#8	RANGE	8800
9	20A/1P	#12	DISHWASHER	1200
10, 12	40A/2P	#8	WATER HEATER	6000
11	20A/1P	#12	DISPOSAL	300
14-16	15A/1P	#14		