OPTIONAL SINGLE FAMILY CALCULATION

MKE & ASSOCIATES, INC.

UNIT STUDIO - A1-A3 (WORST CASE)		
LINE TO LINE VOLTAGE, PHASE	208 V	1 Ø
SYSTEM VOLTAGE: 208V		
GENERAL LOADS		
(1) LIGHTING AND APPLIANCE LOAD		
UNIT SQUARE FOOTAGE	484	SQ FT
CODE LOAD BASED ON SQ FT (3VA/FT SQ)	1,452	VA
(2) KITCHEN APPLIANCE CIRCUITS	3,000	VA
(3) LAUNDRY CIRCUIT IF APPLICABLE	1,500	VA
(4) WATER HEATER	0	VA
(5) DISPOSAL	750	VA
(6) DISHWASHER	1,200	VA
(7) MICROWAVE	1,200	VA
(8) RANGE	8,200	VA
(9) DRYER	5,000	VA
NET CONNECTED LOAD	22,302	VA
CODE DEMAND LOAD (100% FIRST 10KW, 40% FOR REMAINDER)	14,921	VA
HEATING AND AIR-CONDITIONING LOAD		
USE THE LARGEST OF THE FOLLOWING SELECTIONS:		
(A) AIR CONDITIONING AND COOLING		
NAME PLATE RATING(S)		
(B) HEAT PUMP (W/ NO SUPPLEMENTAL ELECTRIC HEATING)		
NAME PLATE RATING(S)		
(C) HEAT PUMP (W/ SUPPLEMENTAL ELECTRIC HEATING)		
CAN THE HEAT PUMP RUN SIMULTANEOUSLY W/ ELEC. HEAT?	Y	
NAME PLATE RATING(S) FOR HEAT PUMP	1,768	VA
NAME PLATE RATING(S) FOR ELECTRIC HEAT	2,000	VA
(D) ELECTRIC HEATING		
NUMBER OF THERMOSTATS		
NAME PLATE RATING(S)		
(E) ELECTRIC THERMAL STORAGE/OTHER		
NAME PLATE RATING(S)		
HEATING AND AC CODE DEMAND	3,068	VA
NET DEMAND	**17,989**	**VA**
	86	**AMPS**

OPTIONAL SINGLE FAMILY CALCULATION

MKE & ASSOCIATES, INC.

UNIT 1 BEDROOM - C1-C8 (WORST CASE)		
LINE TO LINE VOLTAGE, PHASE	208 V	1 Ø
SYSTEM VOLTAGE: 208V		
GENERAL LOADS		
(1) LIGHTING AND APPLIANCE LOAD		
UNIT SQUARE FOOTAGE	871	SQ FT
CODE LOAD BASED ON SQ FT (3VA/FT SQ)	2,613	VA
(2) KITCHEN APPLIANCE CIRCUITS	3,000	VA
(3) LAUNDRY CIRCUIT IF APPLICABLE	1,500	VA
(4) WATER HEATER	0	VA
(5) DISPOSAL	750	VA
(6) DISHWASHER	1,200	VA
(7) MICROWAVE	1,200	VA
(8) RANGE	8,200	VA
(9) DRYER	5,000	VA
NET CONNECTED LOAD	23,463	VA
CODE DEMAND LOAD (100% FIRST 10KW, 40% FOR REMAINDER)	15,385	VA
HEATING AND AIR-CONDITIONING LOAD		
USE THE LARGEST OF THE FOLLOWING SELECTIONS:		
(A) AIR CONDITIONING AND COOLING		
NAME PLATE RATING(S)		
(B) HEAT PUMP (W/ NO SUPPLEMENTAL ELECTRIC HEATING)		
NAME PLATE RATING(S)		
(C) HEAT PUMP (W/ SUPPLEMENTAL ELECTRIC HEATING)		
CAN THE HEAT PUMP RUN SIMULTANEOUSLY W/ ELEC. HEAT?	Y	
NAME PLATE RATING(S) FOR HEAT PUMP	2,933	VA
NAME PLATE RATING(S) FOR ELECTRIC HEAT	2,000	VA
(D) ELECTRIC HEATING		
NUMBER OF THERMOSTATS		
NAME PLATE RATING(S)		
(E) ELECTRIC THERMAL STORAGE/OTHER		
NAME PLATE RATING(S)		
HEATING AND AC CODE DEMAND	4,233	VA
NET DEMAND	**19,618**	**VA**
	94	**AMPS**

OPTIONAL SINGLE FAMILY CALCULATION

MKE & ASSOCIATES, INC.

UNIT 1 BEDROOM LOFT - B1-B12 (WORST CASE)		
LINE TO LINE VOLTAGE, PHASE	208 V	1 Ø
SYSTEM VOLTAGE: 208V		
GENERAL LOADS		
(1) LIGHTING AND APPLIANCE LOAD		
UNIT SQUARE FOOTAGE	775	SQ FT
CODE LOAD BASED ON SQ FT (3VA/FT SQ)	2,325	VA
(2) KITCHEN APPLIANCE CIRCUITS	3,000	VA
(3) LAUNDRY CIRCUIT IF APPLICABLE	1,500	VA
(4) WATER HEATER	0	VA
(5) DISPOSAL	750	VA
(6) DISHWASHER	1,200	VA
(7) MICROWAVE	1,200	VA
(8) RANGE	8,200	VA
(9) DRYER	5,000	VA
NET CONNECTED LOAD	23,175	VA
CODE DEMAND LOAD (100% FIRST 10KW, 40% FOR REMAINDER)	15,270	VA
HEATING AND AIR-CONDITIONING LOAD		
USE THE LARGEST OF THE FOLLOWING SELECTIONS:		
(A) AIR CONDITIONING AND COOLING		
NAME PLATE RATING(S)		
(B) HEAT PUMP (W/ NO SUPPLEMENTAL ELECTRIC HEATING)		
NAME PLATE RATING(S)		
(C) HEAT PUMP (W/ SUPPLEMENTAL ELECTRIC HEATING)		
CAN THE HEAT PUMP RUN SIMULTANEOUSLY W/ ELEC. HEAT?	Y	
NAME PLATE RATING(S) FOR HEAT PUMP	4,056	VA
NAME PLATE RATING(S) FOR ELECTRIC HEAT	2,000	VA
(D) ELECTRIC HEATING		
NUMBER OF THERMOSTATS		
NAME PLATE RATING(S)		
(E) ELECTRIC THERMAL STORAGE/OTHER		
NAME PLATE RATING(S)		
HEATING AND AC CODE DEMAND	5,356	VA
NET DEMAND	**20,626**	**VA**
	99	**AMPS**

OPTIONAL SINGLE FAMILY CALCULATION

MKE & ASSOCIATES, INC.

UNIT 2 BEDROOM - D1-D4 (WORST CASE)		
LINE TO LINE VOLTAGE, PHASE	208 V	1 Ø
SYSTEM VOLTAGE: 208V		
GENERAL LOADS		
(1) LIGHTING AND APPLIANCE LOAD		
UNIT SQUARE FOOTAGE	1,283	SQ FT
CODE LOAD BASED ON SQ FT (3VA/FT SQ)	3,849	VA
(2) KITCHEN APPLIANCE CIRCUITS	3,000	VA
(3) LAUNDRY CIRCUIT IF APPLICABLE	1,500	VA
(4) WATER HEATER	0	VA
(5) DISPOSAL	750	VA
(6) DISHWASHER	1,200	VA
(7) MICROWAVE	1,200	VA
(8) RANGE	8,200	VA
(9) DRYER	5,000	VA
NET CONNECTED LOAD	24,699	VA
CODE DEMAND LOAD (100% FIRST 10KW, 40% FOR REMAINDER)	15,980	VA
HEATING AND AIR-CONDITIONING LOAD		
USE THE LARGEST OF THE FOLLOWING SELECTIONS:		
(A) AIR CONDITIONING AND COOLING		
NAME PLATE RATING(S)		
(B) HEAT PUMP (W/ NO SUPPLEMENTAL ELECTRIC HEATING)		
NAME PLATE RATING(S)		
(C) HEAT PUMP (W/ SUPPLEMENTAL ELECTRIC HEATING)		
CAN THE HEAT PUMP RUN SIMULTANEOUSLY W/ ELEC. HEAT?	Y	
NAME PLATE RATING(S) FOR HEAT PUMP	4,056	VA
NAME PLATE RATING(S) FOR ELECTRIC HEAT	2,000	VA
(D) ELECTRIC HEATING		
NUMBER OF THERMOSTATS		
NAME PLATE RATING(S)		
(E) ELECTRIC THERMAL STORAGE/OTHER		
NAME PLATE RATING(S)		
HEATING AND AC CODE DEMAND	5,356	VA
NET DEMAND	**21,236**	**VA**
	102	**AMPS**

COPPER 3-WIRE FEEDER CONDUCTOR SCHEDULE

(THHN/THWN COPPER PHASE [& NEUTRAL*] CONDUCTOR ONLY)
(THHN/THWN COPPER GROUND CONDUCTOR)

TAG	CONDUIT	CONDUCTOR	EQUIPMENT GROUND
0303	1/2"	3 #10	#10
0403	3/4"	3 #8	#10
0503	3/4"	3 #6	#10
0603	3/4"	3 #6	#10
0703	1"	3 #4	#8
0803	1 1/4"	3 #3	#8
0903	1 1/4"	3 #3	#8
1003	1 1/4"	3 #2	#8
1253	1 1/2"	3 #1	#6
1503	1 1/2"	3 #1/0	#6
1753	2"	3 #2/0	#6
2003	2"	3 #3/0	#6
2253	2"	3 #4/0	#4
2503	2 1/2"	3 #250KCM	#4
3003	3"	3 #350KCM	#4
4003	3"	3 #600KCM	#3
6003	(2) 3" EACH W/	3 #350KCM	#1
8003	(2) 3" EACH W/	3 #600KCM	#1/0
10003	(4) 2 1/2" EACH W/	3 #250KCM	#2/0
12003	(4) 3" EACH W/	3 #350KCM	#3/0
16003	(5) 3" EACH W/	3 #400KCM	#4/0
20003	(6) 3" EACH W/	3 #400KCM	#250KCM
25003	(7) 3" EACH W/	3 #500KCM	#350KCM
30003	(8) 3" EACH W/	3 #500KCM	#400KCM

* NOTE: WHERE FEEDER TYPE IS USED ON A SINGLE PHASE FEEDER THE CONDUCTOR SHOWN IS TWO PHASE CONDUCTORS AND FULL SIZE NEUTRAL CONDUCTOR

ALUMINUM 3-WIRE FEEDER CONDUCTOR SCHEDULE

(ALUMINUM PHASE [& NEUTRAL*] CONDUCTOR ONLY)
(ALUMINUM GROUND CONDUCTOR)

CONDUIT	CONDUCTOR	EQUIPMENT GROUND
1-1/2"	3 #1/0	#6
2"	3 #2/0	#4
2"	3 #3/0	#4
2"	3 #4/0	#4
2"	3 #250KCM	#4
2-1/2"	3 #300KCM	#2
3"	3 #350KCM	#2
3"	3 #500KCM	#2
(2) 3" EACH W/	3 #250KCM	#1
(2) 3" EACH W/	3 #500KCM	#2/0
(3) 3" EACH W/	3 #500KCM	#3/0
(4) 3" EACH W/	3 #350KCM	#4/0
(4) 3" EACH W/	3 #500KCM	#250KCM
(5) 4" EACH W/	3 #600KCM	#350KCM
(6) 4" EACH W/	3 #600KCM	#400KCM
(7) 4" EACH W/	3 #750KCM	#600KCM
(8) 4" EACH W/	3 #750KCM	#600KCM

WHERE FEEDER TYPE IS USED ON A SINGLE PHASE FEEDER THE CONDUCTOR SHOWN IS TWO PHASE CONDUCTORS AND FULL SIZE NEUTRAL CONDUCTOR

COPPER 4-WIRE FEEDER CONDUCTOR SCHEDULE

(THHN/THWN COPPER PHASE & NEUTRAL CONDUCTOR ONLY)
(THHN/THWN COPPER GROUND CONDUCTOR)

TAG	CONDUIT	CONDUCTOR	EQUIPMENT GROUND
0304	1/2"	4 #10	#10
0404	3/4"	4 #8	#10
0504	1"	4 #6	#10
0604	1"	4 #6	#10
0704	1 1/4"	4 #4	#8
0804	1 1/4"	4 #3	#8
0904	1 1/4"	4 #3	#8
1004	1 1/2"	4 #2	#8
1254	1 1/2"	4 #1	#6
1504	2"	4 #1/0	#6
1754	2"	4 #2/0	#6
2004	2"	4 #3/0	#6
2254	2 1/2"	4 #4/0	#4
2504	3"	4 #250KCM	#4
3004	3"	4 #350KCM	#4
4004	4"	4 #600KCM	#3
6004	(2) 3" EACH W/	4 #350KCM	#1
8004	(2) 4" EACH W/	4 #600KCM	#1/0
10004	(4) 3" EACH W/	4 #250KCM	#2/0
12004	(4) 3" EACH W/	4 #350KCM	#3/0
16004	(5) 4" EACH W/	4 #400KCM	#4/0
20004	(6) 4" EACH W/	4 #400KCM	#250KCM
25004	(7) 4" EACH W/	4 #500KCM	#350KCM
30004	(8) 4" EACH W/	4 #500KCM	#400KCM

ALUMINUM 4-WIRE FEEDER CONDUCTOR SCHEDULE

(ALUMINUM PHASE & NEUTRAL CONDUCTORS)
(ALUMINUM GROUND CONDUCTOR)

CONDUIT	CONDUCTOR	EQUIPMENT GROUND
2"	4 #1/0	#6
2"	4 #2/0	#4
2"	4 #3/0	#4
2"	4 #4/0	#4
2-1/2"	4 #250KCM	#4
3"	4 #300KCM	#2
3"	4 #350KCM	#2
4"	4 #500KCM	#2
(2) 4" EACH W/	4 #250KCM	#1
(2) 4" EACH W/	4 #500KCM	#2/0
(3) 4" EACH W/	4 #500KCM	#3/0
(4) 3" EACH W/	4 #350KCM	#4/0
(4) 4" EACH W/	4 #500KCM	#250KCM
(5) 4" EACH W/	4 #600KCM	#350KCM
(6) 4" EACH W/	4 #600KCM	#400KCM
(7) 4" EACH W/	4 #750KCM	#600KCM
(8) 4" EACH W/	4 #750KCM	#600KCM

LOAD SUMMARY - PANEL MSB1

LOAD TYPE

PANEL	LIGHTS	RECEPT	HEATING	KITCHEN	EQUIP	MOTORS	MISC	TOTAL
FIRE PUMP						27945 VA		27945 VA
SDP-A	16820 VA	35640 VA	9000 VA		178791 VA	244534 VA		484785 VA
MC-03							387260 VA	387260 VA
MC-R (ESTIMATED)	6000 VA	13040 VA	25900 VA	32000 VA	32320 VA	42000 VA		151260 VA
TOTAL	22820 VA	48680 VA	34900 VA	32000 VA	211111 VA	314479 VA	387260 VA	1051250 VA
CODE FACTOR	125.00%	60.27%	125.00%	100.00%	100.00%	100.00%	100.00%	
CODE LOAD	28525 VA	29340 VA	43625 VA	32000 VA	211111 VA	314479 VA	387260 VA	1046340 VA
LARGEST MOTOR			FIRE PUMP ^^					

^^ FIRE PUMP IS LARGEST MOTOR LOAD AND HAS BEEN CALCULATED AT 125% LOAD. **2904 120/208 Wye**

LOAD SUMMARY - PANEL SDP-A

LOAD TYPE

PANEL	LIGHTS	RECEPT	HEATING	KITCHEN	EQUIP	MOTORS	MISC	TOTAL
ATS-EM	14493 VA	1080 VA			2100 VA			17673 VA
ATS-SB		540 VA			22580 VA	103185 VA		126305 VA
2H2A	1883 VA	9360 VA	8250 VA		21323 VA	2132 VA		42948 VA
2H2B		7740 VA			25548 VA	104792 VA		138080 VA
2H4		9180 VA			3200 VA			12380 VA
2H7	444 VA	5760 VA			9400 VA	10 VA		15614 VA
2H7M		1980 VA	750 VA		94640 VA	34415 VA		131785 VA
TOTAL	16820 VA	35640 VA	9000 VA		178791 VA	244534 VA		484785 VA
CODE FACTOR	125.00%	64.03%	125.00%		100.00%	100.00%		
CODE LOAD	21025 VA	22820 VA	11250 VA		178791 VA	244534 VA		478420 VA
LARGEST MOTOR			BP-1a ^^					

^^ BP-1a IS LARGEST MOTOR LOAD AND HAS BEEN CALCULATED AT 125% LOAD. **1328 120/208 Wye**

LOAD SUMMARY - PANEL GDP

LOAD TYPE

PANEL	LIGHTS	RECEPT	HEATING	KITCHEN	EQUIP	MOTORS	MISC	TOTAL
ATS-EM	14493 VA	1080 VA			2100 VA			17673 VA
ATS-SB		540 VA			22580 VA	103185 VA		126305 VA
FIRE PUMP						27945 VA		27945 VA
TOTAL	14493 VA	1620 VA			24680 VA	103185 VA		171923 VA
CODE FACTOR	125.00%	100.00%			100.00%	100.00%		
CODE LOAD	18116 VA	1620 VA			24680 VA	103185 VA		182533 VA
LARGEST MOTOR			FIRE PUMP ^^					

^^ FIRE PUMP IS LARGEST MOTOR LOAD AND HAS BEEN CALCULATED AT 125% LOAD. **507 120/208 Wye**

MECHANICAL EQUIPMENT SCHEDULE

TAG	NUMBER	DESCRIPTION	VOLTAGE (V)	PHASE	HORSEPOWER (HP)	LOAD (VA)	FLA (A)	MCA (A)	FEEDER (CU)	PANEL	CIRCUIT #	COMMENTS
BC	1	BC CONTROLLER	208 V	1	0.00	343	0.00	1.65	1/2"C, #12, #12 GND	2H2A	42,44	
BP	1a	BOOSTER PUMP	208 V	3	25.00	35190	0.00	0.00	1-1/2"C, #1, #6 GND	2H2B	73,75,77	
BP	1b	BOOSTER PUMP	208 V	3	25.00	28152	0.00	0.00	1-1/2"C, #1, #6 GND	2H2B	79,81,83	
CU	1	CONDENSING UNIT	208 V	1	0.00	3952	0.00	19.00	1/2"C, #10, #10 GND	2SB7	38,40	NOTE #1.
CU	2	CONDENSING UNIT	208 V	1	0.00	3952	0.00	19.00	1/2"C, #10, #10 GND	2SB7	42,44	NOTE #1.
CU	3	CONDENSING UNIT	208 V	1	0.00	3952	0.00	19.00	1/2"C, #10, #10 GND	2SB2	39,41	NOTE #1.
DS	1	DUCTLESS SPLIT SYSTEM (INDOOR)	208 V	1	0.00	208	0.00	1.00	1/2"C, #10, #10 GND	2SB7	38,40	NOTE #1, #3.
DS	2	DUCTLESS SPLIT SYSTEM (INDOOR)	208 V	1	0.00	208	0.00	1.00	1/2"C, #10, #10 GND	2SB7	42,44	NOTE #1, #3.
DS	3	DUCTLESS SPLIT SYSTEM (INDOOR)	208 V	1	0.00	208	0.00	1.00	1/2"C, #10, #10 GND	2SB2	39,41	NOTE #1, #3.
EF	1	PARKING GARAGE EXHAUST FAN	208 V	3	2.00	2808	0.00	0.00	1/2"C, #12, #12 GND	2H2B	43,45,47	
EF	2	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	32	NOTE #1, #2.
EF	3A	EXHAUST FAN	120 V	1	0.17	528	0.00	0.00	1/2"C, #12, #12 GND	2SB7	1	NOTE #1, #2.
EF	3B	EXHAUST FAN	120 V	1	0.17	528	0.00	0.00	1/2"C, #12, #12 GND	2SB7	3	NOTE #1, #2.
EF	3C	EXHAUST FAN	120 V	1	0.17	528	0.00	0.00	1/2"C, #12, #12 GND	2SB7	5	NOTE #1, #2.
EF	4A	EXHAUST FAN	120 V	1	0.17	528	0.00	0.00	1/2"C, #12, #12 GND	2SB7	7	NOTE #1, #2.
EF	4B	EXHAUST FAN	120 V	1	0.17	528	0.00	0.00	1/2"C, #12, #12 GND	2SB7	9	NOTE #1, #2.
EF	4C	EXHAUST FAN	120 V	1	0.17	528	0.00	0.00	1/2"C, #12, #12 GND	2SB7	11	NOTE #1, #2.
EF	5A	EXHAUST FAN	120 V	1	0.33	864	0.00	0.00	1/2"C, #12, #12 GND	2SB7	13	NOTE #1, #2.
EF	5B	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	15	NOTE #1, #2.
EF	5C	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	17	NOTE #1, #2.
EF	6A	EXHAUST FAN	120 V	1	0.33	864	0.00	0.00	1/2"C, #12, #12 GND	2SB7	19	NOTE #1, #2.
EF	6B	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	21	NOTE #1, #2.
EF	6C	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	23	NOTE #1, #2.
EF	7A	EXHAUST FAN	120 V	1	0.33	864	0.00	0.00	1/2"C, #12, #12 GND	2SB7	25	NOTE #1, #2.
EF	7B	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	27	NOTE #1, #2.
EF	7C	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	29	NOTE #1, #2.
EF	8A	EXHAUST FAN	120 V	1	0.17	528	0.00	0.00	1/2"C, #12, #12 GND	2SB7	31	NOTE #1, #2.
EF	8B	EXHAUST FAN	120 V	1	0.17	528	0.00	0.00	1/2"C, #12, #12 GND	2SB7	33	NOTE #1, #2.
EF	8C	EXHAUST FAN	120 V	1	0.17	528	0.00	0.00	1/2"C, #12, #12 GND	2SB7	35	NOTE #1, #2.
EF	9A	EXHAUST FAN	120 V	1	0.17	528	0.00	0.00	1/2"C, #12, #12 GND	2SB7	37	NOTE #1, #2.
EF	9B	EXHAUST FAN	120 V	1	0.17	528	0.00	0.00	1/2"C, #12, #12 GND	2SB7	39	NOTE #1, #2.
EF	9C	EXHAUST FAN	120 V	1	0.17	528	0.00	0.00	1/2"C, #12, #12 GND	2SB7	41	NOTE #1, #2.
EF	10A	EXHAUST FAN	120 V	1	0.33	864	0.00	0.00	1/2"C, #12, #12 GND	2SB7	43	NOTE #1, #2.
EF	10B	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	45	NOTE #1, #2.
EF	10C	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	47	NOTE #1, #2.
EF	11A	EXHAUST FAN	120 V	1	0.33	864	0.00	0.00	1/2"C, #12, #12 GND	2SB7	49	NOTE #1, #2.
EF	11B	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	51	NOTE #1, #2.
EF	11C	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	53	NOTE #1, #2.
EF	12A	EXHAUST FAN	120 V	1	0.33	864	0.00	0.00	1/2"C, #12, #12 GND	2SB7	55	NOTE #1, #2.
EF	12B	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	57	NOTE #1, #2.
EF	12C	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	59	NOTE #1, #2.
EF	13A	EXHAUST FAN	120 V	1	0.33	864	0.00	0.00	1/2"C, #12, #12 GND	2SB7	61	NOTE #1, #2.
EF	13B	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	63	NOTE #1, #2.
EF	13C	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	65	NOTE #1, #2.
EF	14A	EXHAUST FAN	120 V	1	0.33	864	0.00	0.00	1/2"C, #12, #12 GND	2SB7	67	NOTE #1, #2.
EF	14B	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	69	NOTE #1, #2.
EF	14C	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	71	NOTE #1, #2.
EF	15A	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	2	NOTE #1, #2.
EF	15B	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	4	NOTE #1, #2.
EF	15C	EXHAUST FAN	120 V	1	0.33	864	0.00	0.00	1/2"C, #12, #12 GND	2SB7	6	NOTE #1, #2.
EF	16A	EXHAUST FAN	120 V	1	0.50	1176	0.00	0.00	1/2"C, #12, #12 GND	2SB7	8	NOTE #1, #2.
EF	16B	EXHAUST FAN	120 V	1	0.33	864	0.00	0.00	1/2"C, #12, #12 GND	2SB7	10	NOTE #1, #2.
EF	16C	EXHAUST FAN	120 V	1	0.33	864	0.00	0.00	1/2"C, #12, #12 GND	2SB7	12	NOTE #1, #2.
EF	17A	EXHAUST FAN	120 V	1	0.50	1176	0.00	0.00	1/2"C, #12, #12 GND	2SB7	14	NOTE #1, #2.
EF	17B	EXHAUST FAN	120 V	1	0.33	864	0.00	0.00	1/2"C, #12, #12 GND	2SB7	16	NOTE #1, #2.
EF	17C	EXHAUST FAN	120 V	1	0.33	864	0.00	0.00	1/2"C, #12, #12 GND	2SB7	18	NOTE #1, #2.
EF	18	EXHAUST FAN	120 V	1	0.00	166	0.00	0.00	1/2"C, #12, #12 GND	2H2A	3	NOTE #2, #7.
EF	19A	EXHAUST FAN	120 V	1	0.33	864	0.00	0.00	1/2"C, #12, #12 GND	2SB7	20	NOTE #1, #2.
EF	19B	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	22	NOTE #1, #2.
EF	19C	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	24	NOTE #1, #2.
EF	20A	EXHAUST FAN	120 V	1	0.33	864	0.00	0.00	1/2"C, #12, #12 GND	2SB7	26	NOTE #1, #2.
EF	20B	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	28	NOTE #1, #2.
EF	20C	EXHAUST FAN	120 V	1	0.25	696	0.00	0.00	1/2"C, #12, #12 GND	2SB7	30	NOTE #1, #2.
EF	21	BATHROOM EXHAUST FAN	120 V	1	0.00	10	0.00	0.00	1/2"C, #12, #12 GND	2H2A	43	NOTE #4.
EF	22	EXHAUST FAN	120 V	1	0.00	161	0.00	0.00	1/2"C, #12, #12 GND	2H2A	46	NOTE #2, #7, #9.
EF	23	BATHROOM EXHAUST FAN	120 V	1	0.00	10	0.00	0.00	1/2"C, #12, #12 GND	2H2A	23	NOTE #5, #6.
EF	24	EXHAUST FAN	120 V	1	0.00	306	0.00	0.00	1/2"C, #12, #12 GND	2SB2	36	NOTE #1, #6.
EF	25	EXHAUST FAN	120 V	1	0.00	10	0.00	0.00	1/2"C, #12, #12 GND	2H7	29	
EF	26	EXHAUST FAN	120 V	1	0.00	10	0.00	0.00	1/2"C, #12, #12 GND	2H2B	26	NOTE #4.
EF	27	EXHAUST FAN	120 V	1	0.50	1176	0.00	0.00	1/2"C, #12, #12 GND	2H2B	49	
EF	28	EXHAUST FAN	120 V	1	0.50	1176	0.00	0.00	1/2"C, #12, #12 GND	2H2B	51	
EFC	1	ELECTRIC FAN COIL	208 V	1	0.00	5000	0.00	24.00	3/4"C, #8, #10 GND	2H2A	22,24	
EUH	1	ELECTRIC UNIT HEATER	208 V	3	0.00	5000	0.00	0.00	1/2"C, #10, #10 GND	2EVC	2,4,6	
EUH	2	ELECTRIC UNIT HEATER	208 V	3	0.00	3300	0.00	0.00	1/2"C, #10, #10 GND	2EVC	8,10,12	
EUH	14	ELECTRIC UNIT HEATER	208 V	3	0.00	3300	0.00	0.00	1/2"C, #10, #10 GND	2EVC	14,16,18	
EUH	15	ELECTRIC UNIT HEATER	208 V	3	0.00	3300	0.00	0.00	1/2"C, #10, #10 GND	2EVC	20,22,24	
EUH	16	ELECTRIC UNIT HEATER	208 V	3	0.00	5000	0.00	0.00	1/2"C, #10, #10 GND	2EVC	26,28,30	
EWH	3	ELECTRIC UNIT HEATER	120 V	1	0.00	1500	0.00	0.00	1/2"C, #12, #12 GND	2H2A	63	
EWH	4	ELECTRIC UNIT HEATER	120 V	1	0.00	1500	0.00	0.00	1/2"C, #12, #12 GND	2H2A	65	
EWH	5	ELECTRIC UNIT HEATER	208 V	1	0.00	3000	0.00	0.00	1/