

Shaver Street Apartments								
LOAD SUMMARY – EMERGENCY GENERATOR PANEL 'EDP'								
LOAD:	LIGHTS	RECEPT	HEAT	KITCHEN	EQUIP	MOTORS	ELEVATOR	LARGEST MOTOR
Panel E1/E2	4,346	360	300	0	9,480	8,556	0	
Elevator # 1							19,080	19,080
SUBTOTAL	4,346	360	300	0	9,480	8,556	19,080	19,080
X-FACTOR	1.25	1 + .5	1	0.65	1	1	1	0.25
CODE LOAD:	5,433	360	300	0	9,480	8,556	19,080	4,770

CONN LOAD:	42	KVA
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VOLTS:	208	3ph
TOTAL CALC:	48	KVA
CALC AMPS:	133	AMPS

Starting KVA is based on Across-The-Line Starting of 10hp Pump @ 100% Starting Amps	
MIN. STARTING KVA	19 SKVA
@ 20% (max) Vdrop	

MC-1	The Shaver Apartments																	1/27/2016	
	RESIDENTIAL LOAD SUMMARY																		
	UNIT TYPE:					TOTAL	AREA (SF)	LIG/RECEPT (3VA / SF)	SM APPL (1500VA X 2)	LAUNDRY (1500VA)	COOKING (CONNECTED)	MICROWAVE (CONNECTED)	DISHWASHER (CONNECTED)	ELECT DRYER (CONNECTED)	WATER HEATER (CONNECTED)	DISPOSAL (CONNECTED)	MOTORS (CONNECTED)	LARGEST OF: AC/HEATING (CONNECTED)	
																			1
Type A (ADA) – 1 Bed/1 Bath	1	---	---	---	---	1	655	1965	3000	1500	8500	1580	744	3500	0	864	50	3500	
Type B – 2 Bed/1 Bath	1	---	---	---	---	1	832	2496	3000	1500	8500	1580	744	3500	0	864	50	4500	
Type C – 2 Bed/2 Bath	---	2	2	1	---	5	898	2694	3000	1500	8500	1580	744	3500	0	864	50	5500	
Type D – 1 Bed/1Bath	---	2	2	2	2	8	660	1980	3000	1500	8500	1580	744	3500	0	864	50	3500	
Type E – Studio	---	4	4	1	---	9	531	1593	3000	1500	8500	1580	744	3500	0	864	50	2500	
Type F – 1 Bed/1 Bath	---	4	4	1	---	9	661	1983	3000	1500	8500	1580	744	3500	0	864	50	3500	
Type G – 2 Bed/2 Bath	---	1	1	---	---	2	1011	3033	3000	1500	8500	1580	744	3500	0	864	50	5500	
Type H – 2 Bed/2 Bath	---	1	1	---	---	2	883	2649	3000	1500	8500	1580	744	3500	0	864	50	5500	
Type I – 1 Bed/1 Bath	---	1	1	---	---	2	546	1638	3000	1500	8500	1580	744	3500	0	864	50	3500	
Type J – 2 Bed/2 Bath	---	---	---	---	1	2	915	2745	3000	1500	8500	1580	744	3500	0	864	50	5500	
Type K – 2 Bed/2 Bath	---	---	---	---	1	2	1071	3213	3000	1500	8500	1580	744	3500	0	864	50	5500	
Type L – 2 Bed/2 Bath	---	---	---	---	1	2	886	2658	3000	1500	8500	1580	744	3500	0	864	50	5500	
Type M – 2 Bed/2 Bath	---	---	---	---	1	2	1012	3036	3000	1500	8500	1580	744	3500	0	864	50	5500	
Type N – 1 Bed/1 Bath	---	---	---	---	1	2	533	1599	3000	1500	8500	1580	744	3500	⚠	864	50	3500	
TOTALS:		2	15	15	10	7	49		107097	147000	73500	416500	77420	36456	171500	0	42336	2450	197500

VOLTS:	208	3ph
TOTAL CONNECTED:	1272	KVA
DEMAND FACTOR:	0.26	Based on Total Number of Residential Units = 48 (See N.E.C. Article: 220.84)
TOTAL CALCULATED:	331	KVA
CALCULATED AMPS:	919	AMPS

Shaver Street Apartments								
LOAD SUMMARY – METER CENTER 'MC2'								
LOAD:	LIGHTS	RECEPT	HEAT	KITCHEN	EQUIP	MOTORS	MISC	LARGEST MOTOR
Lease Space #1 (Future)	3,000	2,500	10,000	5,000	2,000	2,000	0	
Lease Space #2 (Future)	3,000	2,500	10,000	5,000	2,000	2,000	0	
SUBTOTAL	6,000	5,000	20,000	10,000	4,000	4,000	0	0
X-FACTOR	1.25	1 + .5	1	0.65	1	1	1.25	0.25
CODE LOAD:	7,500	5,000	20,000	6,500	4,000	4,000	0	0

CONN LOAD:	49	KVA
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VOLTS:	208	3ph
TOTAL CALC:	47	KVA
CALC AMPS:	130	AMPS

MECHANICAL EQUIPMENT SCHEDULE									
NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
EF-1	EXHAUST FAN NO.1	80.2W	120	1		1/2"	#12	#12	SEE PLANS
EF-2	EXHAUST FAN NO.2	57W	120	1		1/2"	#12	#12	SEE PLANS
EF-3	EXHAUST FAN NO.3	1/4 HP	120	1		1/2"	#12	#12	M1-1
EF-4	EXHAUST FAN NO.4	1/2 HP	120	1		1/2"	#12	#12	E2-7
EF-5	EXHAUST FAN NO.5	1/2 HP	120	1		1/2"	#12	#12	E2-9
EF-6	EXHAUST FAN NO.6	1/4 HP	120	1		1/2"	#12	#12	E2-11
EF-7	EXHAUST FAN NO.7	1/2 HP	120	1		1/2"	#12	#12	E2-13
EF-8	EXHAUST FAN NO.8	80.2W	120	1		1/2"	#12	#12	SEE PLANS
EF-9	EXHAUST FAN NO.9	1/4 HP	120	1		1/2"	#12	#12	E2-12
EF-10	EXHAUST FAN NO.10	1/4 HP	120	1		1/2"	#12	#12	E2-14
EH-1	ELECTRIC WALL HEATER #1	1.5 KW	208	1		1/2"	#12	#12	SEE UNIT PLANS
EH-2a	ELECTRIC WALL HEATER NO.2a	1.5 KW	120	1		1/2"	#12	#12	M1-2
EH-2b	ELECTRIC WALL HEATER NO.2a	1.5 KW	120	1		1/2"	#12	#12	M1-3
EH-3a	ELECTRIC WALL HEATER NO.3a	4.0 KW	208	1		1/2"	#12	#12	H1-25,27
EH-3b	ELECTRIC WALL HEATER NO.3b	4.0 KW	208	1		1/2"	#12	#12	H1-26,28
EH-4	ELECTRIC WALL HEATER NO.4	500W	120	1		1/2"	#12	#12	M1-4
EH-5a	ELECTRIC WALL HEATER NO.5a	2.5KW	208	1		1/2"	#12	#12	M1-5,7
EH-5b	ELECTRIC WALL HEATER NO.5b	2.5KW	208	1		1/2"	#12	#12	M1-6,8
IAC-1	SPLIT SYSTEM UNIT NO.1		208	1	13.0 MCA	1/2"	#12	#12	M1-23,25 (PC)
OAC-1	SPLIT SYSTEM UNIT NO.1					1/2"	#12	#12	M1-23,25 (PC)
IHP-1a	MINI SPLIT HEAT PUMP NO.1a		208	1	17.0 MCA	1/2"	#12	#12	SEE UNIT PLANS
OHP-1a	MINI SPLIT HEAT PUMP NO.1a					1"	#4	#10	SEE UNIT PLANS
IHP-1b	MINI SPLIT HEAT PUMP NO.1a		208	1	17.0 MCA	1/2"	#12	#12	SEE UNIT PLANS
OHP-1b	MINI SPLIT HEAT PUMP NO.1a					1/2"	#12	#12	SEE UNIT PLANS
FC-1	FAN COIL UNIT NO.1		208	3	55.1 MCA	1"	#4	#10	M1-15,17,19
HP-1	HEAT PUMP NO.1		208	3	14.1 MCA	1/2"	#12	#12	M2-2,4,6
RTU-1	AIR HANDLING UNIT NO.1		208	3	36.0 MCA	3/4'	#6	#10	M2-1,3,5
P-1	BOOSTER PUMP NO.1	(2) 5HP	208	3	28.8 EA.	1"	#4	#10	E1-19,21,23
PTHP-1	THRU-WALL HEAT PUMP NO.1	2.5KW	208	1		1/2"	#12	#12	SEE UNIT PLANS
PTHP-2	THRU-WALL HEAT PUMP NO.2	3.5KW	208	1		1/2"	#12	#12	SEE UNIT PLANS
SP-1	SUMP PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	E1-20
RP-1	RECIRC. PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	E1-31
WH-1	WATER HEATER NO.1 (GAS)		120	1		1/2"	#12	#12	E1-29 (PC)
WH-2	WATER HEATER NO.2 (GAS)		120	1		1/2"	#12	#12	E1-29 (PC)

GENERAL EQUIPMENT NOTES:

- A. CONTRACTOR/DESIGNER SHALL VERIFY ALL MECHANICAL EQUIPMENT CONNECTION LOAD REQUIREMENTS WITH THE MECHANICAL EQUIPMENT PROVIDER PRIOR TO ROUGH IN.
- B. MECHANICAL EQUIPMENT SIZES SHOWN IN THE MECHANICAL SCHEDULE ABOVE ARE FOR REFERENCE ONLY AND MAY NOT REFLECT THE ACTUAL EQUIPMENT TO BE INSTALLED.