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FULLER STATION HOUSING

PERMIT SET DOCUMENTS

9608 SE Fuller Road
Clackamas County, Oregon, 97086



EXPIRES 12-31-2021

PERMIT SET

PROJECT #: 1617.00

SHEET ISSUE DATE: 01/31/2020

REVISIONS:

#	DESCRIPTION	DATE
1	COUNTY REVIEW	10.09.2020
2	RESPONSES	
6	ADDENDUM #1	
	ASI #01	10.09.2020
	RFI #01	03.05.2021
	RFI #02	07.20.2021
	RFI #03	08.10.2021
	RFI #04	09.10.2021
	RFI #05	09.30.2021
15	ASI #10	11.05.2021
	RFI #06	11.18.2021
	RFI #07	11.18.2021
	RFI #08	11.18.2021
	RFI #09	11.18.2021
	RFI #10	11.18.2021
	RFI #11	11.18.2021
17	ASI #12	12.06.2021
	RFI #12	12.06.2021
	RFI #13	12.06.2021

ELECTRICAL
SCHEDULES

E1.12

Fuller Station Apartments Main Distribution 'MDP' Estimated Load Summary								
LOAD:	LIGHTS	RECEPT	HEAT	KITCHEN	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel H1/H2	10,407	22,850		7,264		2,500	4,000	
Panel M1/M2	0	0	62,546		0	2,500	77,522	
Panel L1		7,000	7,000			87,420		
Panel E1/E2	3,483	1,000	500			6,676	1,176	
Elevator (30hp)							33,120	33,120
Elevator (30hp)							33,120	
Residential Meters MC1					281,000			
Residential Meters MC2					322,000			
SUBTOTAL	13,890	30,850	70,046	7,264	603,000	99,096	148,938	33,120
X-FACTOR	1.25	1 + .5	1	0.65	1	1	1	0.25
CODE LOAD:	17,363	20,425	70,046	4,722	603,000	99,096	148,938	8,280

CONN LOAD:	1006	KVA
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VOLTS:	208	3ph
TOTAL CALC:	972	KVA
CALC AMPS:	2698	AMPS

Fuller Station Apartments Emergency Generator Estimated Load Summary							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel E1/E2	2,786	500	500		5,176	1,176	
Elevator (30hp)						32,400	32,400
Elevator (30hp)						32,400	
SUBTOTAL	2,786	500	500	0	5,176	65,976	32,400
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	3,483	500	500	0	5,176	65,976	8,100

CONN LOAD:	107	KVA
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VOLTS:	208	3ph
TOTAL CALC:	84	KVA
CALC AMPS:	232	AMPS

Fuller Station Apartments																			
RESIDENTIAL LOAD SUMMARY – MC1																			
UNIT TYPE:	QTY PER FLOOR						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)
	LW 1	LW 2	LW 3	LW 4	LW 5	LW 6													
1 Bedroom	2	3	3				8	550	1650	3000	0	8500	1500	1200	0	0	900	0	3500
2 Bedroom	8	11	11				30	875	2625	3000	0	8500	1500	1200	0	0	900	0	5000
3 Bedroom		4	4				8	1000	3000	3000	1500	8500	1500	1200	3500	0	900	0	6500
TOTALS:	10	18	18	0	0	0	46	38650	115950	138000	12000	391000	69000	55200	28000	0	41400	0	230000

VOLTS: 208
TOTAL CONNECTED: 1081 KVA
DEMAND FACTOR: 0.26
TOTAL CALCULATED: 281 KVA
CALCULATED AMPS: 780 AMPS
NOTE: Based on Total Number of Residential Units = 46-50 (See N.E.C. Article: 220.84)

Fuller Station Apartments																			
RESIDENTIAL LOAD SUMMARY – MC2																			
UNIT TYPE:	QTY PER FLOOR						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)
	LW 1	LW 2	LW 3	LW 4	LW 5	LW 6													
1 Bedroom				3	3	3	9	550	1650	3000	0	8500	1500	1200	0	0	900	0	3500
2 Bedroom				11	11	11	33	875	2625	3000	0	8500	1500	1200	0	0	900	0	5000
3 Bedroom				4	4	4	12	1000	3000	3000	1500	8500	1500	1200	3500	0	900	0	6500
TOTALS:	0	0	0	18	18	18	54	45825	137475	162000	18000	459000	81000	64800	42000	0	48600	0	274500

VOLTS: 208
TOTAL CONNECTED: 1287 KVA
DEMAND FACTOR: 0.25
TOTAL CALCULATED: 322 KVA
CALCULATED AMPS: 893 AMPS
NOTE: Based on Total Number of Residential Units = 51-55 (See N.E.C. Article: 220.84)

MECHANICAL EQUIPMENT SCHEDULE

NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
EF-1	EXHAUST FAN NO.1	11.0W	120	1		1/2"	#12	#12	SEE UNIT PLANS
EF-2	EXHAUST FAN NO.2	10.2W	120	1		1/2"	#12	#12	SEE FLOOR PLANS
EF-3	EXHAUST FAN NO.3	1/10HP	120	1		1/2"	#12	#12	M2-24
EF-4	EXHAUST FAN NO.4	1/10HP	120	1		1/2"	#12	#12	M1-21
EF-5	EXHAUST FAN NO.5	54W	120	1		1/2"	#12	#12	M1-27
EF-6	EXHAUST FAN NO.6	7.5	120	1		1/2"	#12	#12	M1-25
EH-1	WALL HEATER NO.1	1.5KW	120V	1		1/2"	#12	#12	SEE E3.01
EH-2	WALL HEATER NO.2	500W	120	1		1/2"	#12	#12	M1-6
EH-3	WALL HEATER NO.3	3.0KW	208	1		1/2"	#12	#12	M1-27,29
EH-4	WALL HEATER NO.4	2.0KW	208	1		1/2"	#12	#12	SEE SHEET E3.01
FC-1	FAN COIL NO.1		208	1	44.7 MCA	3/4"	#6	#10	M1-8,10
FC-2	FAN COIL NO.2		208	1	44.7 MCA	3/4"	#6	#10	M1-12,14
FC-3	FAN COIL NO.3		208	1	31.2 MCA	3/4"	#8	#10	M1-16,18
FC-4	FAN COIL NO.4		208	1	31.2 MCA	3/4"	#8	#10	M1-20,22
FC-5	FAN COIL NO.5		208	1	44.7 MCA	3/4"	#6	#10	M1-24,26
FC-6	FAN COIL NO.6		208	1	15.5 MCA	1/2"	#10	#10	M1-30,32
FC-7	FAN COIL NO.7		208	1	31.2 MCA	3/4"	#8	#10	M1-34,36
HP-1	HEAT PUMP NO.1		208	1	31.8 MCA	3/4"	#6	#10	M2-7,9
HP-2	HEAT PUMP NO.2		208	1	31.8 MCA	3/4"	#6	#10	M2-11,13
HP-3	HEAT PUMP NO.3		208	1	21.6 MCA	3/4"	#8	#10	M2-15,17
HP-4	HEAT PUMP NO.4		208	1	15.5 MCA	1/2"	#10	#10	M2-8,10
HP-5	HEAT PUMP NO.5		208	1	31.8 MCA	3/4"	#6	#10	M2-12,14
HP-6	HEAT PUMP NO.6		208	1	15.5 MCA	1/2"	#10	#10	M2-16,18
HP-7	HEAT PUMP NO.7		208	1	15.5 MCA	1/2"	#10	#10	M2-20,22
IAC-1	MINI SPLIT NO. 1 (INDOOR)								INTERCONNECT W/ OAC
OAC-1	MINI SPLIT NO.1 (OUTDOOR)		208	1	12.2 MCA	1/2"	#12	#12	M2-19,21
PTHP1	PKG HEAT PUMP NO.1		208	1		1/2"	#10	#10	SEE UNIT PLANS
PTHP2	PKG HEAT PUMP NO.2		208	1		1/2"	#10	#10	SEE UNIT PLANS
PTHP3	PKG HEAT PUMP NO.3		208	1		1/2"	#10	#10	SEE UNIT PLANS
RH-1	RADIANT HEATER NO.1	1050W	120V	1		1/2"	#12	#12	SEE UNIT PLANS
RTU-1	ROOFTOP UNIT NO.1		208V	3	36.0 MCA	1"	#6	#10	M2-1,3,5
RTU-2	ROOFTOP UNIT NO.2		208V	3	29.0 MCA	3/4"	#8	#10	M2-2,4,6
RP-1	RECIRC PUMP NO.1	1/2HP	120V	1		1/2"	#12	#12	M1-11
SP-1	SUMP PUMP NO.1	1-1/2HP	120V	1		1/2"	#10	#10	E2-10
WH-1	WATER HEATER NO.1 (GAS)		120	1		1/2"	#12	#12	M1-19 (PC)
WH-2	WATER HEATER NO.2 (GAS)		120	1		1/2"	#12	#12	M1-19 (PC)
WH-3	WATER HEATER NO.3 (GAS)		120	1		1/2"	#12	#12	M1-19 (PC)
WH-4	WATER HEATER NO.4 (GAS)		120	1		1/2"	#12	#12	M1-19 (PC)

GENERAL EQUIPMENT NOTES:

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

KEYED EQUIPMENT NOTES:

- ELECTRICAL CONTRACTOR SHALL VERIFY THAT THE HEATER CONVERSION JUMPER IS SET TO ALLOW FOR 2.0KW HEATING ONLY. IF THIS IS NOT THE CASE WHEN INSTALLED, THE ELECTRICAL CONTRACTOR SHALL NOT PROVIDE FINAL CONNECTION UNTIL ISSUE IS CORRECTED.