

FOSTER SHELTER MDP, 800A, 208Y/120V, 3P, 4W									1/27/2020
LOAD:	LIGHTS	RECEPT	HEAT	KITCHEN	EQUIP	MOTORS	MISC	LARGEST MOTOR	
PANEL A	5,945	1,440	0	0	11,420	43,856	3,600	4,900	
PANEL B	3,616	17,285	0	0	55,963	27,377	0	5,990	
PANEL C	650	4,800	0	29,201	8,472	4,363	1,200	2,199	
<b>SUBTOTAL</b>	<b>10,211</b>	<b>23,525</b>	<b>0</b>	<b>29,201</b>	<b>75,855</b>	<b>75,596</b>	<b>4,800</b>	<b>13,089</b>	
X-FACTOR	1.25	1 + 5	1	0.65	1	1	1	0.25	
<b>CODE LOAD:</b>	<b>12,764</b>	<b>16,763</b>	<b>0</b>	<b>18,981</b>	<b>75,855</b>	<b>75,596</b>	<b>4,800</b>	<b>3,272</b>	

CONN LOAD:	219	KVA
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VOLTS:	208	3ph
TOTAL CALC:	208	KVA
CALC AMPS:	577	AMPS

**1**  
E1.7 PANEL MDP SCHEDULE  
SCALE: NA

MFIA PANEL SCHEDULE												
panel B		mounting WALL			location			connected load amps				
voltage 120/208V		phase 3			bus & main 400A MLO			calculated load amps				
C	service	va	a/p	no.	a b c	no.	a/p	va	service	C		
6	WASHER EXTRACTOR	1922	20/3	1	*	2	50/3	3243	RTU-5	6		
6	*	1922	*	3	*	4	*	3243	*	6		
6	*	1922	*	5	*	6	*	3243	*	6		
5	TUMBLER DRYER	9487	100/3	7	*	8	15/1	670	W/D STACK (WASHER)	6		
5	*	9487	*	9	*	10	30/2	2375	W/D STACK (DRYER)	5		
5	*	9487	*	11	*	12	*	2375	*	5		
5	RTU #3	4586	60/2	13	*	14	15/1	670	W/D STACK (WASHER)	6		
5	*	4586	*	15	*	16	30/2	2375	W/D STACK (DRYER)	5		
	SPARE		15/2	17	*	18	*	2375	*	5		
	*		*	19	*	20	20/1		DINING PLUGS	5		
6	RECIRC PUMPS	700	15/1	21	*	22	20/1		SPARE			
5	ADA DOOR ACTR PWR (2 DR)	900	20/1	23	*	24	20/1		SPARE			
5	WH-1	75	15/1	25	*	26	20/1	540	ROOFTOP RECEPTACLES	2		
5	WH-2	75	15/1	27	*	28	15/1	1440	COMMON 1 OUTLETS	5		
5	WH-3	75	15/1	29	*	30	15/1	1440	COMMON 1 OUTLETS	5		
5	WH-4	75	15/1	31	*	32	15/1	670	COIN WASHER	6		
1	STORAGE AND RR LIGHTS	700	20/1	33	*	34	20/1		SPARE			
1	CORRIDOR(155+143), ELEC RM LTS	800	20/1	35	*	36	20/1	1440	RECEPTACLES	2		
1	CLINIC+RR+SH+LAUN LTS	820	20/1	37	*	38	20/1	1440	RECEPTACLES	2		
5	PHONEBOARD QUAD		20/2	39	*	40	20/1	1440	KITCHEN APPLIANCES	2		
	SPARE		*	41	*	42	20/1	1440	RECEPTACLES	2		
6	RTU #1	4586	60/2	43	*	44	20/1	1440	RECEPTACLES	2		
6	*	4586	*	45	*	46	20/1	1440	RECEPTACLES	2		
5	W/D STACKED (DRYER)	2375	30/2	47	*	48	20/1	1440	ELEC RM OUTLET	2		
5	*	2375	*	49	*	50	20/1	1440	DESK/FLOOR OUTLET	2		
	SPARE		15/1	51	*	52	20/1	1440	RECEPTACLES	2		
1	R-2 AREA LIGHTS	1296	20/1	53	*	54	20/1		EXTERIOR LIGHTS	1		
	SPARE		20/1	55	*	56			EXTERIOR LIGHTS	1		
	SPARE		20/1	57	*	58	20/1	905	R-2 RECEPTACLES (ARC FLASH)	2		
2	WASH MACHINE	1440	20/1	59	*	60	20/1	1440	R-2 RECEPTACLES (ARC FLASH)	2		
Phase A 34039 VA Phase B 36714 VA Phase C 33488 VA Total Connected 104241 VA										NOTES:	line-line voltage 208 largest motor (va) 5990	
load code:		ph. A	ph. B	ph. C		total	factor	calculated load (va)				
1. LIGHTS=	820	700	2096 VA		3616	1.25	4520					
2. RECEPT.=	4860	5225	7200 VA		17285	1 + 0.5	13643					
3. HEATING=	0	0	0 VA		0	1.00	0					
4. KITCHEN=	0	0	0 VA		0	1.00	0					
5. EQUIP. =	16598	20338	19027 VA		55963	1.00	55963					
6. MOTORS=	11761	10451	5165 VA		27377	*	28875					
7. MISC=	0	0	0 VA		0	1.00	0					
(* 125% of the largest motor + 100% of the balance)										TOTAL =	103000	

**3**  
E1.7 PANEL B SCHEDULE  
SCALE: NA

MFIA PANEL SCHEDULE												
panel A		mounting WALL			location			connected load amps				
voltage 120/208V		phase 3			bus & main 225A MLO			calculated load amps				
C	service	va	a/p	no.	a b c	no.	a/p	va	service	C		
6	RTU-6	5404	60/3	1	*	2	50/3	4203	RTU #4	6		
6	*	5404	*	3	*	4	*	4203	*	6		
6	*	5404	*	5	*	6	*	4203	*	6		
7	FOUNTAIN GFCI	240	15/1	7	*	8	50/3	4203	RTU #2	6		
	SPARE		20/1	9	*	10	*	4203	*	6		
6	EF-6	50	15/1	11	*	12	*	4203	*	6		
6	EF-1	600	20/1	13	*	14	15/1		SPARE			
6	EF-2	600	20/1	15	*	16	30/2	2375	W/D STACK (DRYER)	5		
6	EF-3	1176	20/1	17	*	18	*	2375	*	5		
1	SLEEPING LIGHTS	1050	20/1	19	*	20			RISER COMPRESSOR MOTOR			
1	EGRESS LIGHTS	1590	20/1	21	*	22			VAULT RECEPTACLE			
1	COMMON 2 AREA LIGHTS	1250	20/1	23	*	24			SPARE			
1	COMMON 1 + SOFFIT LIGHTS	1150	20/1	25	*	26	20/1	1920	COPY MACHINE	5		
1	OFFICE LIGHTS	905	20/1	27	*	28			SPARE			
	SPACE			29	*	30			SPARE			
	EGRESS LIGHTS			31	*	32	15/1		SPARE			
	SPACE			33	*	34	30/2	2375	COINED DRYER	5		
	SPACE			35	*	36	*	2375	*	5		
	SPACE			37	*	38	20/1	1920	IT ROOM RECEPTACLE	7		
	SPACE			39	*	40	20/1	1440	COMPUTER RECEPS	7		
	SPACE			41	*	42	20/1	1440	RECEPTACLES	2		
Phase A 20690 VA Phase B 23095 VA Phase C 22476 VA Total Connected 66261 VA										NOTES:	line-line voltage 208 largest motor (va)	
load code:		ph. A	ph. B	ph. C		total	factor	calculated load (va)				
1. LIGHTS=	2200	2495	1250 VA		5945	1.25	7431					
2. RECEPT.=	0	0	1440 VA		1440	1 + 0.5	1440					
3. HEATING=	0	0	0 VA		0	1.00	0					
4. KITCHEN=	0	0	0 VA		0	1.00	0					
5. EQUIP. =	1920	4750	4750 VA		11420	1.00	11420					
6. MOTORS=	14410	14410	15036 VA		43856	*	45081					
7. MISC=	2160	1440	0 VA		3600	1.00	3600					
(* 125% of the largest motor + 100% of the balance)										TOTAL =	68972	

**2**  
E1.7 PANEL A SCHEDULE  
SCALE: NA

MFIA PANEL SCHEDULE												
panel C		mounting WALL			location			connected load amps				
voltage 120/208V		phase 3			bus & main 200A MLO			calculated load amps				
C	service	va	a/p	no.	a b c	no.	a/p	va	service	C		
4	WARE WASH	5885	70/3	1	*	2	35/3	3266	STEAM JACKETED KETTLE	4		
4	*	5885	*	3	*	4	*	3266	*	4		
4	*	5885	*	5	*	6	*	3266	*	4		
5	MICROWAVE OVEN	1608	15/1	7	*	8	15/3	733	MAU-1	6		
5	HOOD CONTROL PANEL	2400	25/1	9	*	10	*	733	*	6		
	SPARE TO KITCHEN		25/1	11	*	12	*	733	*	6		
	SPARE			13	*	14	15/2	541	KEX-1	6		
	WASHING MACHINE			15	*	16	*	541	*	6		
7	FIRE ALARM PANEL	1200	20/1	17	*	18	20/1		SPARE			
	SMOKE DAMPERS			19	*	20	15/2	541	KEX-2	6		
	SPACE			21	*	22	*	541	*	6		
	SPACE			23	*	24	20/1		SPARE			
	SPACE			25	*	26	15/1	912	REACH-IN FREEZER	5		
1	KITCHEN LIGHTING	650	20/1	27	*	28	15/1	1176	REACH-IN REFRIGERATOR	5		
	SPACE			29	*	30	15/1	900	REACH-IN REFRIGERATOR	5		
2	KITCHEN OUTLET (E1)	1200	15/1	31	*	32	15/1	200	GAS OVEN	4		
2	REACH REFRIGERATOR	1200	15/1	33	*	34	20/1	1548	RICE COOKER	4		
2	KITCHEN OUTLET (E3)	1200	15/1	35	*	36	15/1	1176	REACH-IN FREEZER	5		
2	KITCHEN OUTLET (E2)	1200	15/1	37	*	38	15/1	300	GAS GRIDDLE	5		
	SPACE			39	*	40			SPACE			
	SPACE			41	*	42			SPACE			
Phase A 16386 VA Phase B 17940 VA Phase C 14360 VA Total Connected 48666 VA										NOTES:	line-line voltage 208 largest motor (va)	
load code:		ph. A	ph. B	ph. C		total	factor	calculated load (va)				
1. LIGHTS=	0	650	0 VA		650	1.25	813					
2. RECEPT.=	2400	1200	1200 VA		4800	1 + 0.5	4800					
3. HEATING=	0	0	0 VA		0	1.00	0					
4. KITCHEN=	9351	10699	9151 VA		29201	0.80	23361					
5. EQUIP. =	2820	3576	2076 VA		8472	1.00	8472					
6. MOTORS=	1815	1815	733 VA		4363	*	4913					
7. MISC=	0	0	1200 VA		1200	1.00	1200					
(* 125% of the largest motor + 100% of the balance)										TOTAL =	43558	

**4**  
E1.7 PANEL C SCHEDULE  
SCALE: NA

SHEET NOTES:

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RECORD DRAWING:  
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AS-BUILT PREPARED 1.22.2020

FOSTER SHELTER  
6144 SE FOSTER RD, PORTLAND, OREGON 97206  
CLIENT: MULTNOMAH COUNTY

MBA MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE, SUITE 304 PORTLAND, OREGON 97217 P:503.222.3793

PROJECT NO. 17-0918  
ISSUE DATE 05.04.2018  
REVISIONS CHECKSHEET 5.23.2018

OWNER CHANGES 2.26.2019

SHEET

ELECTRICAL SCHEDULES  
**E1.7**

PERMIT SET  
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