

VENTILATION AIR SCHEDULE - AC-2

ROOM NUMBER AND NAME	AREA (SQ. FT.)	OCCUPANT LOAD (#/1000 SQ. FT.)	NUMBER OF OCCUPANTS	OUTSIDE AIR REQUIREMENT (CFM/PP)	OUTSIDE AIR REQUIREMENT (CFM/SQ FT.)	OUTSIDE AIR REQUIRED (CFM)	ZONE OSA (CFM)	SUPPLY AIR (CFM)	PRIMARY OSA FRACTION	RETURN AIR (CFM)	EXHAUST AIR (CFM)	Zone Ventilation Efficiency	Corrected OSA CFM	AIR SYSTEMS	
	Az		Pz	Rp	Ra	Vbz	Ez	Voz	Vpz	Zp		Evz			
HOMLESS SHELTER															
155 S CORRIDORS	768	0	0	0	0.06	46	0.8	58	900	0.06	1200	300	0.99	69.08	AC-2
144 STORAGE ROOM	75	0	0	0	0.12	9	0.8	11	50	0.23	0	0	0.83	13.49	AC-2
146 STORAGE ROOM	65	0	0	0	0.12	8	0.8	10	50	0.20	0	0	0.86	11.69	AC-2
147 STORAGE ROOM	65	0	0	0	0.12	8	0.8	10	50	0.20	0	0	0.86	11.69	AC-2
148 STORAGE ROOM	65	0	0	0	0.12	8	0.8	10	50	0.20	0	0	0.86	11.69	AC-2
149 STORAGE ROOM	65	0	0	0	0.12	8	0.8	10	50	0.20	0	0	0.86	11.69	AC-2
150 STORAGE ROOM	65	0	0	0	0.12	8	0.8	10	50	0.20	0	0	0.86	11.69	AC-2
161 COMMONS ROOM ADD AIR	65	0	0	0	0	0	0.8	0	800	0.00	0	600	1.06	0.00	AC-2
TOTAL	1233		0			94		118	2000		1100	900	0.83	141	
								Vou	Vps						
										141	CFM	Corrected OSA Fractor	Zs =	0.07	

EXHAUST FANS

MARK NUMBER	EF 1	EF 2	EF 3	EF 4	EF 5	EF 6
TYPE	DIRECT DRIVE ROOF	DIRECT DRIVE ROOF	DIRECT DRIVE ROOF	CEILING CABINET-**	CEILING DIRECT DRIVE	CEILING DIRECT DRIVE
SYSTEM	RESTROOMS	RESTROOMS	RESTROOMS	BATHROOM	WATER	WATER
CFM	600	600	1200	30/90	110	110
TOTAL SP. (IN H20)	0.60	0.60	0.70	0.20	0.125	0.125
RPM	1627	1627	1248	1062/1146	1190	1190
TIP SPEED (FPM)	4633	4633	4289	NA	--	--
MOTOR WATTS OR HP	1/6 HP	1/6 HP	1/2 HP	5/11.7	47.3 W	47.3 W
CONTROLLED BY	OCCUPANCY	OCCUPANCY	OCCUPANCY	*	T-STAT	T-STAT
INTERLOCK WITH	RTU-6	RTU-6	RTU-6	MOTION SENSOR	NONE	NONE
FAN SPEED CONTROLLER	YES	YES	YES	YES	NO	NO
WHEEL TYPE	BI	BI	BI	BI	FC	FC
BACK DRAFT DAMPER	115 V MOTOR	115 V MOTOR	115 V MOTOR	YES	GRAVITY	GRAVITY
ISOLATION	RUBBER	RUBBER	RUBBER	RUBBER	RUBBER	RUBBER
DESIGN WEIGHT (LBS)	65	65	85	25	25	25
MAX. SONES	10.0	10.0	9.9	0.3/0.6	3.0	3.0
MAX AMPS ***	--	--	--	0.27	0.40	0.40
POWER (VOLTS/PHASE/HZ) ***	120/1/60	120/1/60	120/1/60	120/1/60	120/60/1	120/60/1
BASIS OF DESIGN:	GREENHECK G-095-VG	GREENHECK G-095-VG	GREENHECK G-133-VG	PANASONIC FV-05-11VKS1	BROAN A110	BROAN A110

* - FAN TO RUN AT LOW SPEED CONTINUOUSLY, AND INCREASE TO HIGH SPEED UPON ACTIVATION OF THE MOTION SENSOR.
 ** - FANS TO INCLUDE MOTION SENSOR AND MULTI SPEED CONTROL WITH TIME DELAY.
 *** - ELECTRICAL DATA LISTED FOR REFERENCE ONLY, COORDINATE WITH ELECTRICAL CONTRACTOR FOR VOLTAGE AND PHASE REQUIREMENTS. ELECTRICAL CONTRACTOR RESPONSIBLE FOR SIZING ALL CONDUCTORS & OVER-CURRENT PROTECTION. VERIFY WITH EQUIPMENT SUBMITTALS FOR EQUIPMENT ELECTRICAL REQUIREMENTS
 *****- FAN RUNS 24-7, GRAVITY DAMPER TO ENSURE NO BACK FLOW FROM GEF-2A.

ROOFTOP HVAC UNITS

MARK NUMBER	RTU-6 7.5 TON	RTU-5 6 TON
SYSTEM	WEST BUILDING	EAST BUILDING
TYPE	C.V.	C.V.
DISCHARGE	VERTICAL	VERTICAL
FAN SECTION	TOTAL CFM	3000
	ECONOMIZER	YES
	MIN. OSA	1200
	MAX OSA (FULL OCCUPANCY)	NA
	CO2 CONTROL	NA
	EXTERNAL SP. ("H20)	0.75
	TOTAL SP. ("H20)	---
	RPM	1218
	WHEEL TYPE/ SIZE	F.C. ---- (DIRECT)
	MOTOR HP.	1.61 BHP
POWER EXH FAN/ACCESSORY	NONE	
MIN FILTER SIZE	4-16X16	
FILTER TYPE	2"- 30%	
HEATING	GAS INPUT/OUTPUT (MBH)	150/120
	EFF. (AFUE)	80.0%
	STAGES/TYPE	2-S.S. HIGH HEAT
COOLING	TOTAL CLG. (TONS)	7.5
	SENSIBLE CLG. (MBH)	65.48
	ENT. EVAP AIR TEMP (DB/WB.)	90/67
	LVG. EVAP AIR TEMP (DB/WB.)	55/54
	AMBIENT AIR (°F)	95
	EER/IEER	11.0/11.2
	REFRIGERANT	410A
	REFRIGERANT CHARGE	14 LBS
DESIGN WEIGHT (LBS.)	1200	
SMOKE DETECTOR (RETURN DUCT)	YES	
SPRING ISOLATION ROOF CURB	YES	
CONVENIENCE OUTLET - ALWAYS POWERED	YES	
VOLTAGE/PHASE - ***	208/3	
MCA/MOCP - ***	40/60 AMPS	
BASIS OF DESIGN - CARRIER MODEL	48CTA08	

"AMERICAN MANUFACTURED IS PREFERRED"

RECORD DRAWING:
 THIS DRAWING HAS BEEN UPDATED TO REFLECT CHANGES MADE TO THE PROJECT. PLEASE CONSULT THE ARCHITECT FOR THE LATEST REVISIONS. THE INFORMATION FURNISHED TO THE ENGINEER BY THE INSTALLATION CONTRACTOR, NO WARRANTY EITHER EXPLICIT OR IMPLIED IS GIVEN BY MEA, INC. AS TO THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

AS-BUILT PREPARED 1.22.2020

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



PROJECT NO.	ISSUE DATE
17-0918	05.04.2018
REVISIONS	
Δ CHECKSHEET 5.23.2018	
Δ OWNER CHANGES 2.26.2019	

SHEET

MECHANICAL SCHEDULES
M6.1

PERMIT SET
 © MERRYMAN BARNES ARCHITECTS, INC.