



DEDICATED OUTSIDE AIR HANDLING SYSTEM (DOAS-) ROOFTOP UNIT SCHEDULE

MARK	MIN OA (CFM)	SUPPLY FAN				EXHAUST FAN				ENERGY RECOVERY								DX COOLING COIL						HOT GAS REHEAT COIL CAPACITY (MBH)	REFRIGERANT TYPE								
		MAXIMUM AIRFLOW (CFM)	FAN HP	FAN QTY.	ESP (IN WG)	MAXIMUM AIRFLOW (CFM)	ESP (IN WG)	FAN HP	SUMMER CONDITIONS				WINTER CONDITIONS				TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	TOTAL CAPACITY (MBH)			SENSIBLE CAPACITY (MBH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	MAX FACE VELOCITY (FPM)	EVAPORATOR TEMP (°F)	COMPRESSOR TYPE
									TOTAL CAPACITY (MBH)	SENS. CAPACITY (MBH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	TOTAL CAPACITY (MBH)	SENS. CAPACITY (MBH)																	
DOAS-1	1660	2700	5	1	1.5	2300	1	3	75.6	30	92.4	75.1	81.4	67.5	145.5	103.9	10	7.5	45.6	39.4	139.1	89	92.4	75.1	50.2	50.2	500	95	VARIABLE SPEED	95	R-454B		

DEDICATED AIR HANDLING SYSTEM (DOAS-) ROOFTOP UNIT SCHEDULE (CONTINUED)

MARK	HEATING										ELECTRICAL DATA						OPERATING WEIGHT (LBS)	REMARKS		
	HEAT PUMP					NATURAL GAS					V	Ø	FLA	MCA	MOCP	SCCR (KA)			EER	ISMRE
	EAT (°F)	LAT (°F)	HEAT PUMP - MAX TEMP (°F)	MIXED AIR TEMP (°F)	INPUT MBH	OUTPUT (MBH)	MIN GAS PRESSURE (IN WC)	MAX GAS PRESSURE (IN WC)												
DOAS-1	16	83	36	47	300	243	7	14	460	3	28.3	35.3	40	10	18.6	7.5	2737	1, 2, 3		

1. PROVIDE MANUFACTURER'S 36" HEIGHT INSULATED ROOF CURB.
2. PROVIDE UNIT WITH BAROMETRIC RELIEF FOR ECONOMIZER MODE.
3. PROVIDE FILTERS TO PROTECT ENERGY RECOVERY WHEEL PER MANUFACTURER RECOMMENDATIONS.

VARIABLE REFRIGERANT FLOW (VRF-) UNIT SCHEDULE

MARK	ASSOCIATED OUTDOOR UNIT	TYPE	SERVICE	SUPPLY FAN		DX COOLING COIL				HEATING CAPACITY			ELECTRICAL DATA					OPERATING WEIGHT (LBS)	REMARKS	
				AIRFLOW (CFM)	ESP (I.N. W.C.)	NOMINAL TOTAL CAPACITY (MBH)	REQUIRED TOTAL CAPACITY (MBH)	EAT (°F DB)	LAT (°F DB)	NOMINAL CAPACITY (MBH)	REQUIRED HEATING CAPACITY (MBH)	EAT (°F DB)	VOLTAGE	Ø	FLA	MCA	MOCP			KAIC
VRF-1.1	HRU-1	CONCEALED DUCTED	WST SPARES-128, WST MAINT-129, MX TERM-131, CORR.-104	265	0.4	7	5.6	78	60	8.5	2.7	70	208	1	0.6	0.8	15	5	55	1, 2, 3, 4
VRF-1.2	HRU-1	CONCEALED DUCTED	OFFICE 130, VTRAT-127, ADMN-126	265	0.4	9	6.9	78	60	9	3.8	70	208	1	0.6	0.8	15	5	55	1, 2, 3, 4
VRF-1.3 - 1.7	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VRF-1.8	HRU-1	CEILING CASSETTE	ADMIN BRIEF - 121	300	-	5	1.9	78	60	5.6	0.6	70	208	1	0.2	0.3	15	5	55	1, 2, 3, 4
VRF-1.9	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VRF-1.10	HRU-1	CONCEALED DUCTED	CI - 113, LMPTT-114	530	0.4	15	10	78	60	13.5	2.1	70	208	1	1.1	1.4	15	5	60	1, 2, 3, 4
VRF-1.11	HRU-1	CONCEALED DUCTED	CLASSROOM - 112	530	0.4	15	11.3	78	60	14	3.1	70	208	1	1.1	1.4	15	5	60	1, 2, 3, 4
VRF-1.12	HRU-1	CEILING CASSETTE	CORRIDOR-102	300	-	5	1.2	78	60	5.6	0.6	70	208	1	0.2	0.3	15	5	55	1, 2, 3, 4
VRF-1.13	HRU-1	CONCEALED DUCTED	FTU-105, OFFICE-109	530	0.4	15	13.8	78	60	40	3.7	70	208	1	1.1	1.4	15	5	60	1, 2, 3, 4
VRF-1.14	HRU-1	CONCEALED DUCTED	OFFICES 106, 107, 108, COR-119	265	0.4	5	4.3	78	60	8.5	0.6	70	208	1	0.6	0.8	15	5	55	1, 2, 3, 4
VRF-1.15	HRU-1	CONCEALED DUCTED	OFFICES 110,111	330	0.4	9	7	78	60	8.5	3.8	70	208	1	0.6	0.8	15	5	55	1, 2, 3, 4
VRF-1.16 - 1.20	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VRF-1.21	HRU-1	CEILING CASSETTE	OFFICE - 118	300	-	5	1.1	78	60	5.6	0.7	70	208	1	0.2	0.3	15	5	28.9	1, 2, 3, 4
VRF-1.22	HRU-1	CEILING CASSETTE	CORRIDOR-102	300	-	5	2.5	78	60	5.6	4	70	208	1	0.2	0.3	15	5	28.9	1, 2, 3, 4
VRF-1.23	HRU-1	CEILING CASSETTE	BREAK - 120	300	-	7	4.7	78	60	9.0	2	70	208	1	0.2	0.3	15	5	34.2	1, 2, 3, 4
VRF-2.1	HRU-1	CONCEALED DUCTED	OFFICES - 212	300	0.4	9	6.3	78	60	13.5	4.5	70	208	1	0.6	0.8	15	5	55	1, 2, 3, 4
VRF-2.2	HRU-1	CONCEALED DUCTED	CLIENT SYSTEM LAB - 213	280	0.4	5	4.1	78	60	13.5	2.3	70	208	1	0.6	0.8	15	5	55	1, 2, 3, 4
VRF-2.3	HRU-1	CEILING CASSETTE	ABMN - 211	300	-	5	3.1	78	60	5.6	2.2	70	208	1	0.2	0.3	15	5	28.9	1, 2, 3, 4
VRF-2.4	HRU-1	CEILING CASSETTE	CORRIDOR - 201	300	-	5	3.6	78	60	5.6	4	70	208	1	0.2	0.3	15	5	28.9	1, 2, 3, 4
VRF-2.5	HRU-1	CEILING CASSETTE	WST RIOS-214	300	-	5	1.4	78	60	17	1.3	70	208	1	0.2	0.3	15	5	28.9	1, 2, 3, 4
VRF-2.6	HRU-1	CEILING CASSETTE	TRAINING BREAK AREA - 208	300	-	5	4.7	78	60	5.6	0.7	70	208	1	0.2	0.3	15	5	28.9	1, 2, 3, 4
VRF-2.7	HRU-1	CONCEALED DUCTED	CLASSROOM 4 - 202D	530	0.4	15	9.8	78	60	15	5.5	70	208	1	1.1	1.4	15	5	60	1, 2, 3, 4
VRF-2.8	HRU-1	CONCEALED DUCTED	CLASSROOM 3 - 202C	440	0.4	15	7.3	78	60	12	3.5	70	208	1	1.1	1.4	15	5	60	1, 2, 3, 4
VRF-2.9	HRU-1	CONCEALED DUCTED	CLASSROOM 2 - 202B	440	0.4	15	7.9	78	59	12	4	70	208	1	1.1	1.4	15	5	60	1, 2, 3, 4
VRF-2.10	HRU-1	CONCEALED DUCTED	CLASSROOM 1 - 202A	530	0.4	15	12.1	78	60	15	5.5	70	208	1	1.1	1.4	15	5	60	1, 2, 3, 4
VRF-2.11	HRU-1	CEILING CASSETTE	CORRIDOR - 201	300	-	9	6	78	60	5.6	3.1	70	208	1	0.2	0.3	15	5	28.9	1, 2, 3, 4

1. UNIT TO HAVE MANUFACTURER'S INTEGRAL CONDENSATE PUMP.
2. UNIT TO HAVE ECM MOTOR.
3. UNIT TO HAVE MANUFACTURER'S INTEGRAL REFRIGERANT GAS DETECTION.
4. REFER TO HEAT RECOVERY OUTDOOR (HRU-) UNIT SCHEDULE FOR REFRIGERANT REQUIREMENTS.

BRANCH CONTROLLER (BC-) UNIT SCHEDULE

MARK	ELECTRICAL DATA				OPERATING WEIGHT (LBS)	REMARKS
	V	Ø	MCA	MOCP		
BC-1.1	208	1	0.8	15.0	81.6	1
BC-1.2	208	1	0.8	15.0	81.6	1
BC-1.3	208	1	0.8	15.0	81.6	1
BC-2.1	208	1	0.6	15.0	72.8	1
BC-2.2	208	1	0.6	15.0	72.8	1

1. SYSTEM TO HAVE MANUFACTURER'S INTEGRAL REFRIGERANT GAS DETECTION AND REFRIGERANT MITIGATION INCLUDING SOLENOID SHUTOFF VALVES.

HEAT RECOVERY OUTDOOR (HRU-) UNIT SCHEDULE

MARK	NOMINAL COOLING CAPACITY (MBH)	RATED COOLING CAPACITY (MBH)	NOMINAL HEATING CAPACITY @ 47 DEG F (MBH)	RATED HEATING CAPACITY (MBH)	ELECTRICAL DATA				REFRIGERANT TYPE	COMPRESSOR QUANTITY	EER	IEER	COP @ 47 DEG F	COP @ 17 DEG F	SOUND PRESSURE LEVEL (dBA)	SOUND PRESSURE LEVEL DISTANCE	OPERATING WEIGHT (LBS)	REMARKS
					V	Ø	MCA	MOCP										
HRU-1	216	183	243	138	460	3	29.9	35	NOTE 1	2	10.5	20.5	3.25	2	71	3'-0"	972	1, 2, 3

1. PROVIDE REFRIGERANT MEETING GLOBAL WARMING POTENTIAL (GWP) LESS THAN 700. ACCEPTABLE REFRIGERANTS INCLUDE R-32 (HFC), R-454B, OR APPROVED EQUAL.
2. HEATING CAPACITY RATED AT 5 °F AMBIENT, COOLING CAPACITY RATED AT 90 °F AMBIENT.
3. SYSTEM TO HAVE MANUFACTURER'S INTEGRAL REFRIGERANT GAS DETECTION AND REFRIGERANT MITIGATION INCLUDING SOLENOID SHUTOFF VALVES.

DUCTLESS SPLIT SYSTEM INDOOR (SSIU-) UNIT SCHEDULE

MARK	SERVES	AIRFLOW (CFM)	COOLING CAPACITY (BTU/H)	ELECTRICAL DATA		APPROX. OPERATING WEIGHT (LBS)	REMARKS
				MCA	FLA		
SSIU-1	210 - SECURE COMM	705	30	1.0	1.07	46	1, 2, 3, 4
SSIU-2	124 - SECURE COMM	705	30	1.0	1.07	46	1, 2, 3, 4
SSIU-3	123 - COMM	705	30	1.0	1.07	46	1, 2, 3, 4
SSIU-4	210 - SECURE COMM	705	30	1.0	1.07	46	1, 2, 3, 4

1. SEE "DUCTLESS SPLIT SYSTEM OUTDOOR (SSOU-) UNIT SCHEDULE, " FOR ASSOCIATED OUTDOOR UNIT.
2. INDOOR UNIT POWERED BY ASSOCIATED OUTDOOR UNIT.
3. PROVIDE ELECTRONIC CONDENSATE OVERFLOW SWITCH TO BE INSTALLED AT INDOOR UNIT COIL.
4. PROVIDE MANUFACTURER'S CONDENSATE PUMP.

DUCTLESS SPLIT SYSTEM OUTDOOR (SSOU-) UNIT SCHEDULE

MARK	SERVES	COOLING CAPACITY (BTU/H)	REFRIGERANT TYPE	REFRIGERANT CHARGE (LBS)	SEER RATING	ELECTRICAL DATA					APPROX. OPERATING WEIGHT (LBS)	REMARKS
						V	Ø	HZ	MCA	MOCP		
SSOU-1	SSIU-1	30	R-454B	7.68	19.1	208	1	60	22	37	155	1, 2, 3, 4
SSOU-2	SSIU-1	30	R-454B	7.68	19.1	208	1	60	22	37	155	1, 2, 3, 4
SSOU-3	SSIU-1	30	R-454B	7.68	19.1	208	1	60	22	37	155	1, 2, 3, 4
SSOU-4	SSIU-1	30	R-454B	7.68	19.1	208	1	60	22	37	155	1, 2, 3, 4

1. OUTDOOR UNIT POWERS INDOOR UNIT.
2. PROVIDE LOW-AMBIENT TEMPERATURE KIT (WIND BAFFLE)
3. PROVIDE WIRED, WALL-MOUNTED THERMOSTAT
4. FURNISH MANUFACTURER'S DISCONNECT SWITCH, TO BE INSTALLED BY ELECTRICAL CONTRACTOR.

EXHAUST FAN (EF-) SCHEDULE

MARK	SERVES	FAN TYPE	AIRFLOW (CFM)	ESP (IN/WC)	FAN RPM	CONTROL METHOD	ELECTRICAL DATA					APPROX. OPERATING WEIGHT (LBS)	REMARKS
							V	Ø	HZ	HP	DRIVE		
EF-1	MECHANICAL - 122A	CENTRIFUGAL INLINE	200	0.33	1328	TEMPERATURE	120	1	60	0.167	DIRECT	34	1, 2
EF-2	ELECTRICAL - 122B	CENTRIFUGAL INLINE	200	0.33	1328	TEMPERATURE	120	1	60	0.167	DIRECT	34	1, 2
EF-3	MECHANICAL - 209	CENTRIFUGAL ROOF	250	0.33	1620	TEMPERATURE	120	1	60	0.167	DIRECT	36	1, 2, 3

1. PROVIDE MANUFACTURER'S 24V MOTORIZED DAMPER, LOW LEAKAGE, CLASS 1A.
2. PROVIDE FAN WITH ECM MOTOR WITH DIAL POTENTIOMETER.
3. PROVIDE MANUFACTURER'S 14" HEIGHT ALUMINUM ROOF CURB.

PENNSYLVANIA AIR NATIONAL GUARD

HARRISBURG ANGB, MIDDLETOWN, PA

SOF CONSTRUCT SIMULATOR FACILITY MC-130J

NO.	DATE	DESCRIPTION
2	06/10/26	BID PHASE REVISIONS

BID DOCUMENTS

PROJECT NUMBER:
SHYQ149104

DESIGNED: SRG MODELED: APT CHECKED: MJM

DATE:
JANUARY 2026

DRAWING TITLE:
MECHANICAL

SCHEDULES 1

DRAWING NO.:

M601