

AIR HANDLING UNIT SCHEDULE

NOTES:

- 1.MANUFACTURER LISTED IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ALTERNATE MANUFACTURERS.
- 2.VIBRATION ISOLATION FURNISHED WITH UNIT.
- 3.PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SEPCIFICATION - 23 05 13.
- 4.PROVIDE PROVIDE EACH FAN WITH INTEGRAL BACKDRAFT DAMPER. FAN ARRAY SHALL BE ABLE TO PROVIDE 100% AIRFLOW WITH ONE (1) FAN NOT OPERATING.
- 5.PROVIDE ONE (1) PIEZOMETER RING AND ONE (1) VFD PER FAN IN COMMON ENCLOSURE PER FAN ARRAY.
- 6.CHILLED WATER IS 30% PROPYLENE GLYCOL.
- 7.PROVIDE WITH UVGI LIGHTING DOWNSTREAM OF COOLING COIL. UVGI WAVE LENGTH SHALL BE 254NM AND INTENSITY LEVEL SHALL BE SIZED TO PROVIDE AT LEAST 85% PATHOGEN REDUCTION PER PASS. PROVIDE WITH RADIOMETER FOR INTENSITY MONITORING.
- 8.PROVIDE W/AIR BLENDER.
- 9.HEATING COIL LOCATED IN THE PREHEAT POSITION.
- 10.HEATING COIL LOCATED IN THE REHEAT POSITION.

TAG NAME	AREA SERVED	NO. OF FANS	CFM TOTAL	MIN. CFM	EXT. S.P.	TYPE	RPM (NOTE D)	BHP EACH (NOTE E)	MHP EACH (NOTE E)	MINIMUM OUTSIDE AIR CFM	ELECTRICAL				HEATING COIL - WATER												
											DISCONNECT(S)		CONTROLLER STATER(S)		VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	SCCR	CFM	EAT °F	LAT °F	EWT °F	LWT °F	GPM
AHU-1M	FIRST FLOOR	4	12500	5000	1.25	AF135, 100% WIDTH DD PLENUM FAN ARRAY	3580	5.2	7.5	2500	2	30"	223"	78"													
AHU-2M	SECOND FLOOR	4	5000	3500	1.00	AF105, 100% WIDTH DD PLENUM FAN ARRAY	4130	1.8	3.0	1500	1	208	3	MFR	NF	MFR	VFD	10 kA	2500	30.0	55.0	140	110	4.5	67.5	0.02	0.30
AHU-3M	ROYCROFT DEN 300	1	3000	600	0.50	AF150, 100% WIDTH DD PLENUM FAN	3320	4.2	5.0	600	1	208	3	MFR	NF	MFR	VFD	5 kA	3000	55.0	85.0	140	110	5.6	83.3	0.30	10.00

AIR HANDLING UNIT SCHEDULE - CONT.

TAG NAME	COOLING COIL							FILTER			MODULATING DAMPERS		AIR BLENDERS		MAX. DIMENSIONS			WEIGHT		VIBRATION ISOLATION		MANUFACTURER	MODEL	NOTES				
	EAT °F	EAT °F	LAT °F	LAT °F	EWT °F	LWT °F	GPM	TOTAL MBH	MAX. A.P.D. IN. W.C.	W.P.D. FEET HEAD	TYPE	MAX. FACE VELOCITY	CLEAN	DIRTY	OUTSIDE AIR	RETURN AIR	NO.	SIZE	MAX. A.P.D. IN. W.C.	LENGTH	WIDTH				HEIGHT	OPERATING	TYPE	DEFL.
AHU-1M	80.0	66.8	51.3	51.3	42	54.0	98.6	562.0	1.2	15.1	4" MERV 11	500	0.60	1.25	20"x20"	66"x16"	2	30"	0.25	223"	78"	78"	7135	M3	1.000	JOHNSON CONTROLS, INC.	XTI-72x78	1,2,3,4,5,6,7,8,9
AHU-2M	80.0	66.8	51.1	51.1	42	54.0	40.7	231.0	0.7	15.6	4" MERV 11	500	0.80	1.25	16"x16"	44"x10"	2	24"	0.25	210"	60"	60"	4540	M3	1.000	JOHNSON CONTROLS, INC.	XTI-54x60	1,2,3,4,5,6,7,8,9
AHU-3M	80.0	66.8	51.8	51.8	42	54.0	22.9	131.0	0.7	6.1	4" MERV 11	500	0.50	1.25	12"x12"	26"x10"	N/A	N/A	N/A	111"	51"	90"	2685	M3	1.000	JOHNSON CONTROLS, INC.	XTI-45x51	1,2,3,6,7,10

FAN SCHEDULE

NOTES:

- 1.MANUFACTURER LISTED IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ALTERNATE MANUFACTURERS.
- 2.SET FAN ON CURB WITH TOP MIN 18" ABOVE ROOF SURFACE.

TAG NAME	AREA SERVED	CFM	S.P. IN. W.C.	WHEEL DIA. INCHES	FAN RPM (NOTE F)	DRIVE TYPE	MAX. AMCA SONES OR DBA	BACKDRAFT DAMPER TYPE	ELECTRICAL (NOTE 1)				VIBRATION ISOLATION			MANUFACTURER	MODEL	NOTES				
									BHP OR WATTS (NOTE E)	MHP OR WATTS (NOTE E)	VOLTAGE	PHASES	DISCONNECT BY (NOTE A)	TYPE (NOTE B)	CONTROLLER/ STARTER BY (NOTE A)				TYPE (NOTE C)	WEIGHT (LBS)	TYPE	DEFL.
EF-1M	FIRST FLOOR RESTROOMS	375	0.38	10.0	1280	DIRECT	6.4	MOTORIZED	59	0.25	115	1	MFR	NF	MFR	EC MOTOR	70	NA	0.00"	COOK	ACED 100 EC	1,2
RF-1M	AHU-1M	2500	0.50	16.5	925	DIRECT	59	MOTORIZED	0.29	0.75	208	3	MC	NF	MC	VFD	295	H2	0.75"	COOK	QMXD 165	1
RF-2M	AHU-2M	1500	0.50	15.0	895	DIRECT	55	MOTORIZED	0.17	0.50	208	3	MC	NF	MC	VFD	255	H2	0.75"	COOK	QMXD 150	1

AIR TERMINAL SCHEDULE

NOTES:

- 1.MANUFACTURER LISTED IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ALTERNATE MANUFACTURERS.
- 2.CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION.
- 3.REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.

TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	VOLUME DAMPER REQUIRED	MANUFACTURER	MODEL	NOTES
EG-1	INLET +2	35 DEGREE DEFLECTION	1 1/4"	STEEL	WHITE	NO	TITUS	350R	
RG-1	INLET +2	LATTICE	1"	STEEL	PAINTED	NO	KEES	LA081	12 GA. DECORATIVE LATTICE GRILLE. COLOR AS DIRECTED BY CO
SD-1	24x24	PLAQUE	LAY-IN	STEEL	WHITE	NO	TITUS	OMNI	
SD-2	INLET +5	LOUVERED FACE	BEVELED DROP FACE	STEEL	<varies>	NO	TITUS	TDC	TYPE 6 BEVELED DROP FACE
SG-1	INLET +2	DOUBLE DEFLECTION	1 1/4"	STEEL	WHITE	NO	TITUS	300R	BLADES VERTICAL UNLESS NOTED OTHERWISE
SG-2	INLET +2	LATTICE	1"	STEEL	PAINTED	NO	TITUS	LA081	12 GA. DECORATIVE LATTICE GRILLE. COLOR AS DIRECTED BY CO
SG-3	INLET +2	DOUBLE DEFLECTION	1 1/4"	STAINLESS STEEL	MILL	NO	TITUS	300R-SS	BLADES VERTICAL UNLESS NOTED OTHERWISE
SR-1	INLET + 2	35 DEGREE DEFLECTION	1 1/4"	STEEL	WHITE	YES	TITUS	300R	BLADES VERTICAL UNLESS NOTED OTHERWISE

MOTOR OPERATED DAMPER SCHEDULE

NOTES:

- 1.COORDINATE DAMPER ACTUATOR LOCATION AND MOUNTING REQUIREMENTS WITH TEMPERATURE CONTROL CONTRACTOR.

TAG NAME	EQUIPMENT SERVED	SIZE		CFM	BLADE CONFIGURATION	BLADE ORIENTATION	INSULATED	ACTUATOR TYPE (NOTE 1)	ACTUATOR STYLE	POWER FAILURE POSITION	POSITIVE POSITION FEEDBACK REQUIRED	NOTES	
		WIDTH	HEIGHT										
MOD-EF-1M	EF-1M	12	12	375	0	OPPOSED	HORIZONTAL	No	ELECTRIC	TWO POSITION	NORMALLY CLOSED (NC)	No	1
MOD-RF-1M	RF-1M	20	20	2500	0	OPPOSED	HORIZONTAL	No	ELECTRIC	TWO POSITION	NORMALLY CLOSED (NC)	Yes	1
MOD-RF-2M	RF-2M	16	16	1500	0	OPPOSED	HORIZONTAL	No	ELECTRIC	TWO POSITION	NORMALLY CLOSED (NC)	Yes	1

BOILER SCHEDULE - HOT WATER

NOTES:

- 1.MANUFACTURER LISTED IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ALTERNATE MANUFACTURERS.
- 2.PROVIDE WITH GAS MAIN PRESSURE REGULATOR AS REQUIRED.
- 3.PROVIDE WITH CONDENSATE NEUTRALIZATION KIT.
- 4.EACH BOILER IS 50% OF TOTAL LOAD.

TAG NAME	FUEL TYPE	INLET FUEL PRESSURE	TURNDOWN RATIO	INPUT BTU/HR	OUTPUT BTU/HR	EWT °F	LWT °F	GPM	OPERATING PRESSURE PSI	ELECTRICAL				MAX. DIMENSIONS			WEIGHT					
										DISCONNECT		CONTROLLER/ STARTER		VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR	LENGTH	WIDTH	HEIGHT
B-1M	NATURAL GAS	14	15:1	750000	722000	110	140	45	80	115	1	EC	NF									
B-2M	NATURAL GAS	14	15:1	750000	722000	110	140	45	80	115	1	EC	NF	MFR	5 kA	56"	30"	78"	1770	LOCHINVAR	FBN0751	1,2

GLYCOL FEED SYSTEM

NOTES:

- 1.MANUFACTURER LISTED IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ALTERNATE MANUFACTURERS.
- 2.SEE 23 21 00 FOR ADDITIONAL SYSTEM REQUIREMENTS.
- 3.FILL WITH GLYCOL SOLUTION MEETING REQUIREMENTS OF 23 21 00.
- 4.AUDIBLE ALARM W/ SILENCE SWITCH THAT SOUNDS ON LOW LIQUID LEVEL.
- 5.AUTOMATIC START/STOP PRESSURE SWITCH TO CONTROL PUMP OPERATION BASED ON PRESSURES LISTED ON DOCUMENTS.

TAG NAME	SERVICE	TANK VOLUME	SYSTEM FILL PRESSURE	PUMP HEAD PSI	MIN. 1.5 GPM @ 100 PSI	ELECTRICAL				MANUFACTURER	MODEL (NOTE 1)	NOTES	
						MHP	VOLTAGE	PHASE	DISCONNECT BY (NOTE A)				CONTROLS BY (NOTE A)
GFS-1	CHILLED WATER	50.0	15	30	0.0	0.33	115	1	MFR	MFR	WESSELS	GMP	1,2,3,4,5

LINEAR DIFFUSER SCHEDULE

NOTES:

- 1.MANUFACTURER LISTED IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ALTERNATE MANUFACTURERS.
- 2.PROVIDE WITH CONCEALED FASTENERS.
- 3.PROVIDE WITH TYPE 5 HEAVY DUTY BORDER FOR FLOOR INSTALLATION.

TAG NAME	MATERIAL	BAR WIDTH	BAR SPACING	WIDTH	LENGTH	PLENUM REQUIRED	PLENUM INSULATION TYPE	PLENUM INLET SIZE	PATTERN CONTROL REQUIRED	BALANCING DAMPER REQUIRED	FINISH	MANUFACTURER	MODEL	NOTES
LG-1	ALUMINUM	1/8"	1/4"	SEE PLANS	SEE PLANS	No	N/A	N/A	Yes	No	DARK BRONZE	TITUS	CT-480	NOTE 1,2,3

SCHEDULE GENERAL NOTES:

- A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
MFR = MANUFACTURER
EC = ELECTRICAL CONTRACTOR
MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR
MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR...
- B. DISCONNECT TYPE:
F = FUSED
NF = NON-FUSED
- C. CONTROLLER STARTER TYPE:
FV = FULL VOLTAGE
WYE = WYE-DELTA
SS = SOLID STATE (SOFT START)
MS = MANUAL STARTER
VFD = VARIABLE FREQUENCY DRIVE
VFD/B = VARIABLE FREQUENCY DRIVE WITH BYPASS
- D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.
- E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.
- F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.
- G. CURB TYPE:
MFR = STANDARD CURB BY MANUFACTURER
GC = BY GENERAL CONTRACTOR
SAC = SOUND ATTENUATOR CURB



10.27.2023

A/E FIRMS

PRIME/ARCH:
STRATA ARCHITECTURE
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KANSAS CITY, MO
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1400 BALTIMORE STREET,
SUITE 300
KANSAS CITY, MO
F: 816.842.8437

DESIGNED:

SGB

CADD:

WMM

TECH. REVIEW:

SCB

DATE:

10.27.2023

SUB SHEET NO.

01
ME6.0

MECHANICAL SCHEDULES

REHABILITATE BATHHOUSES
HOT SPRINGS NATIONAL PARK

DRAWING NO.

626

180065

PMIS/PKG NO.

318674

SHEET

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