

AIR HANDLER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIR			COMPONENTS				OTHER	ELECTRICAL		PHYSICAL		NOTES
			SUPPLY AIRFLOW (CFM)	OCCUPIED MAXIMUM OUTSIDE AIR (CFM)	UNOCCUPIED MINIMUM OUTSIDE AIR (CFM)	FANS	COILS	FILTERS	EVAP. BYPASS DAMPER		SINGLE POINT VOLT/PH/Hz	CABINET LENGTH/ WIDTH/HEIGHT (IN)	WEIGHT (LB)		
AH-1	UNITECH	MECH.	40,000	13,488	3,000	SF1.1 - SF1.6	ICC-1, PHC-1	ANGLE	EC-1	YES	480 / 3 / 60	330 / 120 / 144	26,075		
AH-2	UNITECH	MECH.	30,000	11,024	3,000	SF2.1 - SF2.6 & RF1.1 - RF1.6	ICC-2, PHC-2, CRV-2	ANGLE	EC-2	YES	480 / 3 / 60	362 / 120 / 116	23,200		
AH-3	UNITECH	MECH.	11,000	5,041	2,000	SF3.1, SF3.2	ICC-3, PHC-3	ANGLE	EC-3	YES	480 / 3 / 60	310 / 66 / 94	12,250		
AH-4	UNITECH	MECH.	3,700	754	350	SF4.1, SF4.2 & RF4.1, RF4.2	DX-4, PHC-4	ANGLE		-	480 / 3 / 60	360 / 72 / 76	12,000		
RF-1A	UNITECH	ROOF	40,000	-	-	RF1.1 - RF1.5	-	-			480 / 3 / 60	144 / 128 / 120	15,000		
RF-3	UNITECH	ROOF	11,000	-	-	RF3.1, RF3.2	-	-			480 / 3 / 60	48 / 128 / 120	5,000		

AIR FLOW MEASURING STATION

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIR		PHYSICAL	NOTES
			MAXIMUM AIRFLOW RATE (CFM)	MINIMUM AIRFLOW RATE (CFM)		
AFM-1	EBTRON	AH-1 MECH. ROOM B236	40,000	14,100	(2) 86" x 36"	
AFM-2	EBTRON	AH-2 MECH. ROOM C201	28,000	11,000	120" x 36"	
AFM-3	EBTRON	AH-3 MECH. ROOM B236	11,500	6,050	30" x 42"	
AFM-4	EBTRON	AH-4 MECH. ROOM C201	3,700	1,030	42" x 18"	

1. FIELD VERIFY BEST LOCATION FOR AIR FLOW MEASURING STATION BASED ON MANUFACTURERS INSTALLATION INSTRUCTIONS.

AIR HANDLER SOUND POWER SCHEDULE

OCTAVE BAND FREQUENCY SOUND POWER (dB RE: 10 E-12 WATTS)

ID	SOUND DATA LOCATION	OPENING AREA SQ FT.	OCTAVE BAND FREQUENCY SOUND POWER (dB RE: 10 E-12 WATTS)									
			63	125	250	500	1k	2k	4k	8k	LwA	Lw
AH-1	RELIEF FAN	INLET	71	81	83	73	71	70	63	57	78	
		OUTLET	74	72	72	69	69	68	64	61	74	
	SUPPLY FAN	INLET	87	83	100	92	85	83	80	76	95	
		OUTLET	91	85	89	85	81	79	76	71	87	
	CASING RADIATED		22	29	40	48	54	60				

FAN SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR TYPE	FAN										PHYSICAL	NOTES
					MAXIMUM AIRFLOW RATE (CFM)	STATIC PRESSURE (IN. WATER)	OUTLET VELOCITY (FPM)	FAN SPEED (RPM)	FAN WHEEL DIAMETER (IN)	STATIC EFFICIENCY (%)	MOTOR SIZE (HP)	MOTOR BHP (HP)	MOTOR SPEED (RPM)	VOLT/PH/Hz		
SF1.1	TWIN CITY - UNITECH	AH-1	PLENUM	SUPPLY	6,700	3.25	1737	1628	22.2	77	5	4.38	1750	480 / 3 / 60	35 / 35 / 30	(1)
SF1.2	TWIN CITY - UNITECH	AH-1	PLENUM	SUPPLY	6,700	3.25	1737	1628	22.2	77	5	4.38	1750	480 / 3 / 60	35 / 35 / 30	(1)
SF1.3	TWIN CITY - UNITECH	AH-1	PLENUM	SUPPLY	6,700	3.25	1737	1628	22.2	77	5	4.38	1750	480 / 3 / 60	35 / 35 / 30	(1)
SF1.4	TWIN CITY - UNITECH	AH-1	PLENUM	SUPPLY	6,700	3.25	1737	1628	22.2	77	5	4.38	1750	480 / 3 / 60	35 / 35 / 30	(1)
SF1.5	TWIN CITY - UNITECH	AH-1	PLENUM	SUPPLY	6,700	3.25	1737	1628	22.2	77	5	4.38	1750	480 / 3 / 60	35 / 35 / 30	(1)
SF1.6	TWIN CITY - UNITECH	AH-1	PLENUM	SUPPLY	6,700	3.25	1737	1628	22.2	77	5	4.38	1750	480 / 3 / 60	35 / 35 / 30	(1)
					40,200							30				

- CAPACITY AT 4500 FEET ELEVATION.
- ROOF MOUNTED RELIEF FAN COMPLETE WITH 24" HIGH PREFABRICATED ROOF CURB, MOTORIZED BACKDRAFT DAMPER, BIRD SCREEN, INTERGRAL MOTOR OVERLOAD PROTECTION AND SERVICE DISCONNECT.

COIL SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	USAGE	AIR			FLUID			PHYSICAL					NOTES		
				AIRFLOW RATE (CFM)	LOAD (BTU/H)	SENSIBLE LOAD (BTU/H)	ENTERING TEMP. DB/WB (°F)	LEAVING TEMP. DB/WB (°F)	STATIC PRESSURE (IN. WATER)	FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	NO. COILS		EACH COIL FIN WIDTH/ HEIGHT (IN)	MINIMUM FACE AREA (FT²)
PHC-1	UNITECH	AH-1	HEATING - MINIMUM	14,100	1,047,813	1,047,813	0 / -	70.1 / -	0.08	55	140 / 100	30% P.G.	10.59	3	108 / 42	94.5	2 / 6
ICC-1	UNITECH	AH-1	INDIRECT COOLING	40,000	974,736	974,736	97 / 63	69 / 53.5	0.45	200	66 / 75.8	WATER	7.6	3	108 / 42	94.5	6 / 11

- CUSTOM BUILT-UP VAV REHEAT BOX, VAV REHEAT COIL INSTALLED IN DISCHARGE AIR PLENUM WITH MOTORIZED OPPOSED BLADE CONTROL DAMPER. MAX. CFM SCHEDULED, HEATING CFM 100% OF MAXIMUM, MINIMUM 30% OF MAXIMUM.
- CUSTOM BUILT-UP VAV REHEAT BOX, VAV REHEAT COIL INSTALLED IN DISCHARGE AIR PLENUM WITH MOTORIZED OPPOSED BLADE CONTROL DAMPER. MAX. CFM SCHEDULED, HEATING CFM 60% OF MAXIMUM, MINIMUM 30% OF MAXIMUM.

DX COIL SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	USAGE	AIR			DX			PHYSICAL				NOTES	
				AIRFLOW RATE (CFM)	LOAD (BTU/H)	SENSIBLE LOAD (BTU/H)	ENTERING TEMP. DB/WB (°F)	LEAVING TEMP. DB/WB (°F)	STATIC PRESSURE (IN. WATER)	MEDIUM	NO. COILS	EACH COIL FIN WIDTH/ HEIGHT (IN)	MINIMUM FACE AREA (FT²)		MINIMUM NO. ROWS/ FIN PER INCH
CC-4	UNITECH	AH-4	COOLING	3700	179,079	101,817	80 / 65	49.4 / 48.8	0.34	R410A	1	42 / 32.5	9.48	6 / 8	(1)(2)

- CAPACITY AT 4500 FT. ELEVATION
- INTERTWINED ROW SPLIT (DUAL CIRCUITS)

EVAPORATIVE COOLER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR			MISC			ELECTRICAL, PUMP			PHYSICAL			NOTES
				AIRFLOW RATE (CFM)	SENSIBLE LOAD (BTU/H)	ENTERING TEMP. DB/WB (°F)	LEAVING TEMP. DB/WB (°F)	STATIC PRESSURE (IN. WATER)	EFF (%)	MOTOR SIZE (HP)	VOLTS / PH / HZ	NO. MODULES	EACH MODULE WIDTH/ HEIGHT (IN)	MINIMUM FACE AREA (FT²)	PAD THICKNESS INCH	
EC-AH-1	MUNTERS	AH-1	DIRECT	40,000	-	72 / 54	55 / 54	0.25	90	1/2	120 / 1 / 60	1	108 / 96	72	12	(1)(2)
EC-AH-2	MUNTERS	AH-2	DIRECT	30,000	-	72 / 54	55 / 54	0.25	90	1/2	120 / 1 / 60	1	108 / 84	63	12	(1)(2)
EC-AH-3	MUNTERS	AH-3	DIRECT	11,000	-	72 / 54	55 / 54	0.25	90	1/2	120 / 1 / 60	1	64 / 46	20.4	12	(1)(2)

- EVAPORATIVE MEDIA SECTION FACE AREA SIZED AT 450 FPM MAX VELOCITY @ MAXIMUM CFM. DIRECT EVAPORATIVE COOLING DESIGNED TO DELIVER SCHEDULED AIR TEMPERATURE AT SCHEDULED DESIGN AIRFLOW WITH A PORTION OF MAXIMUM AIRFLOW BYPASSED AT ENTERING CONDITION TEMPERATURE MIXING WITH EVAPORATIVE DISCHARGE AIR TO ACHIEVE 55 DEG. F MIXED TEMPERATURE AT DISCHARGE OF AIR HANDLER.
- BYPASS DAMPER SIZED FOR PRESSURE DROP EQUAL TO OR LESS THAN PRESSURE DROP OF EVAPORATIVE MEDIA @ EVAPORATIVE MEDIA DESIGN AIRFLOW.
- WATER FLOW 1.5 GALLONS PER MINUTE OF WATER PER SQUARE FOOT OF HORIZONTAL (TOP) SURFACE AREA.

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Utah State Engineer

MHTN PROJECT NO. 2019505
Original drawing is 36 x 42. Do not scale contents of this drawing.

REVISIONS

NO.	DATE	DESCRIPTION

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NOVEMBER 21, 2019

SHEET NAME
MECHANICAL SCHEDULES

SHEET NUMBER
M601

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EXPANSION TANK SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLUID		PHYSICAL					NOTES
				WORKING FLUID	MIN. TANK/ ACCEPTANCE (GAL)	TANK SIZE (GAL)	RELIEF VALVE (PSIG)	DIA/ HEIGHT (IN)	NPT FITTING (IN)		
ET-1	BELL & GOSSETT B500	MECH. C142	VERTICAL BLADDER	30% P.G.	132	132	60	24 / 80	3/4		

SOLID SEPARATOR SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLUID		MOTOR			PHYSICAL		NOTES
				FLOW RATE (GPM)	WORKING FLUID	HEAD (FT)	SIZE (HP)	VOLT/PH/Hz	DIA/ HEIGHT (IN)		
CTF-1	LAKOS SPX-0100-SVR	MECH. ROOM	FILTER	100	WATER	35	2	480 / 3 / 60	39 / 24 / 47	1	

1. UNIT PACKAGED WITH SEPARATOR, PUMP AND CONTROLS

CONDENSING UNIT SCHEDULE - AIR COOLED

ID	MANUFACTURER AND MODEL NUMBER	REFRIGERANT	TOTAL CAPACITY (BTUH)	AMBIENT AIR TEMP. DB/WB (°F)	NO. CIRCUITS	SEER	ELECTRICAL			HEIGHT / WIDTH / DEPTH (IN)	WEIGHT (LBS)	NOTES	
							COMPRESSOR RATED LOAD AMPS (RLA)	MINIMUM CIRCUIT CAPACITY (MCA)	(MOCP)				
CU-1	TSI	R410A	179,079	97 / 65	2	13	7.7 EA. COMP.	22	25	480 / 3 / 60	48 / 48 / 60	1,000	(1)(2)(3)(4)(5)

- 1. PERFORMANCE AT DESIGN ELEVATION OF 4,500' ASL.
- 2. PROVIDE UNIT WITH DIGITAL SCROLL COMPRESSOR WITH UNLOADING DOWN TO 10% . (REFRIGERANT R-410a)
- 3. UNIT SHALL BE LOW SOUND AND CAPABLE OF LOW AMBIENT OPERATION DOWN TO 0°F.
- 4. PROVIDE MATCHED AND BALANCED DX COOLING COIL AND CONDENSING UNIT FROM SINGLE SUPPLIER
- 5. MOUNT ON 24" HIGH CURB WITH VIBRATION ISOLATORS PER SEISMIC REQUIREMENTS.

CHEMICAL FEED SYSTEM SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	OPERATOR	PRESSURE RATING (PSIG)	ELECTRICAL		PHYSICAL		NOTES
						VOLT/PH/Hz	SIZE	LENGTH/ WIDTH/ HEIGHT (IN)	TANK SIZE (GAL)	
CFS-1	SEE SPECIFICATION	MECH. C142	AUTOMATIC	MICROPROCESSOR	150	120 / 1 / 60		48 / 24 / 48	50	

BOILER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	DRAFT TYPE	FUEL TYPE	INPUT LOAD (MBH)	OUTPUT LOAD (MBH)	FLUID			ELECTRICAL		PHYSICAL			NOTES		
								FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	FLA (AMPS)	VOLT/PH/Hz	STACK DIAMETER (IN)	WATER VOLUME (GAL)		LENGTH/ WIDTH/ HEIGHT (IN)	WEIGHT (LBS)
B-1	ARECO BMK-2000	BOILER ROOM	CONDENSING	FORCED	NAT. GAS	1820 (2000)	1,602	173	120 / 140	30% P.G.	5	16	120 / 1 / 60	8	40	64 / 28 / 79	1,900	(1)
B-2	ARECO BMK-2000	BOILER ROOM	CONDENSING	FORCED	NAT. GAS	1820 (2000)	1,602	173	120 / 140	30% P.G.	5	16	120 / 1 / 60	8	40	64 / 28 / 79	1,900	(1)

- 1. ALL CAPACITIES AT PROJECT ALTITUDE 4,500 FEET ELEVATION
- 2. SEA LEVEL CAPACITY ()

COOLING TOWER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FAN AIRFLOW (CFM)	AMBIENT TEMP. DB/WB (°F)	FLUID			ELECTRICAL, FAN			PHYSICAL			NOTES	
						FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	INLET/ OUTLET HEAD LOSS (FT)	MOTOR QUAN.	MOTOR SIZE (HP)	MOTOR SPEED (RPM)	TOWER AND CONTROL VOLT/PH/Hz	OPERATING WEIGHT (LB)		LENGTH/ WIDTH/ HEIGHT (IN)
CT-1	MARLEY NC8400	TOWER YARD	INDUCED DRAFT, CROSS FLOW	92,000	97 / 63	400	76 / 66	WATER	15	1	10	1750	480 / 3 / 60	17,000	101 / 218 / 144	

- 1. CAPACITY AT 4500 FEET ELEVATION.
- 2. PROVIDE ULTRA QUIET FAN.

SPLIT SYSTEM DUCTLESS AIR CONDITIONER

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIR			COIL		CONDENSING UNIT				MINIMUM COOLING ENERGY EFFICIENCY SEER	VOLTS / PH / CYCLE	NOTES
			TOTAL AIR FLOW RATE (CFM)	ENTERING AIR TEMP. (DEG. F)	LEAVING AIR TEMP. (DEG. F)	MINIMUM TOTAL COOLING LOAD (MBH)	MAX AIR PRESS DROP (IN. H2O)	REFRIG. LIQUID/ SUCTION LINE	REFRIG.	FUSE SIZE/ MIN. CIRCUIT AMPS/ MCOP				
AC-1A	MITSUBISHI PKA-A18HA6	IDF A110 - 90 FT. SQ.	425	80 / 67	61 / 59	18,000	NA	SEE NOTE (2)	R410A	15 / 1	15.3	208 / 1 / 60	1,2,3,4,5,6	
	MITSUBISHI PUZ-A18HA6	OUTDOOR - ROOF	1,200	95 / 65		18,000	NA	SEE NOTE (2)	R410A	15 / 13 / 20		208 / 1 / 60		
AC-2A	MITSUBISHI PKA-A18HA6	MDF A209 - 121 FT. SQ.	425	80 / 67	61 / 59	18,000	NA	SEE NOTE (2)	R410A	15 / 1	15.3	208 / 1 / 60	1,2,3,4,5,6	
	MITSUBISHI PUZ-A18HA6	OUTDOOR - ROOF	1,200	95 / 65		18,000	NA	SEE NOTE (2)	R410A	15 / 13 / 20		208 / 1 / 60		
AC-1B	MITSUBISHI PKA-A18HA6	IDF B217 - 90 FT. SQ.	425	80 / 67	61 / 59	18,000	NA	SEE NOTE (2)	R410A	15 / 1	15.3	208 / 1 / 60	1,2,3,4,5,6	
	MITSUBISHI PUZ-A18HA6	OUTDOOR - ROOF	1,200	95 / 65		18,000	NA	SEE NOTE (2)	R410A	15 / 13 / 20		208 / 1 / 60		
AC-2B	MITSUBISHI PKA-A18HA6	IDF B223 - 90 FT. SQ.	425	80 / 67	61 / 59	18,000	NA	SEE NOTE (2)	R410A	15 / 1	15.3	208 / 1 / 60	1,2,3,4,5,6	
	MITSUBISHI PUZ-A18HA6	OUTDOOR - ROOF	1,200	95 / 65		18,000	NA	SEE NOTE (2)	R410A	15 / 13 / 20		208 / 1 / 60		
AC-1C	MITSUBISHI PKA-A18HA6	DRY STOR. C134 - 330 FT. SQ.	425	80 / 67	61 / 59	18,000	NA	SEE NOTE (2)	R410A	15 / 1	15.3	208 / 1 / 60	1,2,3,4,5,6	
	MITSUBISHI PUZ-A18HA6	OUTDOOR - ROOF	1,200	95 / 65		18,000	NA	SEE NOTE (2)	R410A	15 / 13 / 20		208 / 1 / 60		

- 1. CAPACITIES RATED AT THE FOLLOWING OUTDOOR CONDITIONS: COOLING - 95 DEG. F. D.B. , 75 DEG. F. W.B.
- 2. CAPACITIES RATED AT THE FOLLOWING INDOOR CONDITIONS: COOLING - 80 DEG. F. D.B. , 67 DEG. F. W.B.
- 3. PROVIDE LOW AMBIENT HEAD CONTROLLER TO ALLOW COOLING OPERATION DOWN TO 0 DEG. F. D.B.
- 4. R410A REFRIGERANT.
- 5. WIRED MA REMOTE CONTROLLER (PAR-32MAA), PROVIDE WALL MOUNTED HOLDER.
- 6. PROVIDE ACCESSORY CONDENSATE PUMP FOR INDOOR UNIT.

MAKE-UP AIR UNIT

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIRFLOW (CFM)	TOTAL SP (IN)	EXT SP (IN)	HEATING			COOLING			ELECTRICAL			PHYSICAL		NOTES	
							FUEL TYPE	INPUT (BTUH)	MIN OUTPUT (BTUH)	EAT / LAT (DB)	TYPE	EAT / LAT (DB)	EVAP EFF (%)	ESP (IN)	FAN MOTOR (HP)	VOLT/PH/Hz	LENGTH/ WIDTH/ HEIGHT (IN)		MAX OPER WEIGHT (LB)
MAU-1	GREENHECK IGX-115-H22	KITCHEN	NOTE 1	4,160	1.43	1.00	NAT	(400,000)	262,400	0 / 68	EVAP	97 / 69	90	0.1	5	480/3/60	153 / 45 / 45	2200	1,2,3,4,5,6,7

- 1. INDIRECT GAS-FIRED MAKE-UP AIR UNIT WITH EVAPORATIVE COOLING SECTION
- 2. CAPACITIES BASED ON 4500 FEET ELEVATION. SEA LEVEL CAPACITIES IN ()
- 3. PROVIDE FULL PERIMETER ROOF CURB INCLUDING DISCHARGE, EVAP COOLING SECTIONS, STARTER AND DISCONNECT.
- 4. EVAP COOLING CONSISTS OF 12-INCH MEDIA, PUMP
- 5. SINGLE POWER POINT OF CONNECTION INCLUDING EVAP COOLING SECTION AND PUMP
- 6. COLOR TO BE SELECTED BY ARCHITECT.
- 7. UNIT TO COME WITH CONTROL PANEL.

AIR SEPARATOR SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLUID		HEAD LOSS (FT)	PHYSICAL		NOTES
				FLOW RATE (GPM)	WORKING FLUID		DIA./ HEIGHT (IN)	WEIGHT	
AS-1	BELL & GOSSETT RL-5	MECH. ROOM C142	ROLAIRTRROL	390	WATER	2	16 / 37		

CABINET UNIT HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIR		ENT. TEMP. (°F)	FLUID			ELECTRICAL			PHYSICAL		NOTES
			AIRFLOW RATE (CFM)	LOAD (BTUH)		FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	MOTOR SIZE (HP)	VOLT/ PH/ HZ	ROWS/ FINS PER INCH		
CUH-A1.1	RITTILING 03 RFRC-420	VESTIBULE A117	300	15,400	60	2.0	140 / 120	30% P.G.	0.8	1/4	120 / 1 / 60	2 / 10	(1)(2)	
CUH-A1.2	RITTILING 03 RFRC-420	STAIR S-A1	300	15,400	60	2.0	140 / 120	30% P.G.	0.8	1/4	120 / 1 / 60	2 / 10	(1)(2)	
CUH-A1.3	RITTILING 03 RFRC-420	VESTIBULE A101	300	15,400	60	2.0	140 / 120	30% P.G.	0.8	1/4	120 / 1 / 60	2 / 10	(1)(2)	
CUH-A1.4	RITTILING 03 RFRC-420	MUSIC STORAGE A127	300	15,400	60	2.0	140 / 120	30% P.G.	0.8	1/4	120 / 1 / 60	2 / 10	(1)(2)	
CUH-A1.5	RITTILING 03 RFRC-420	VESTIBULE A100	300	15,400	60	2.0	140 / 120	30% P.G.	0.8	1/4	120 / 1 / 60	2 / 10	(1)(2)	
CUH-B1.1	RITTILING 03 RFRC-420	WEST STAIR S-B2	300	15,400	60	2.0	140 / 120	30% P.G.	0.8	1/4	120 / 1 / 60	2 / 10	(1)(2)	
CUH-B1.2	RITTILING 03 RFRC-420	EAST STAIR S-B2	300	15,400	60	2.0	140 / 120	30% P.G.	0.8	1/4	120 / 1 / 60	2 / 10	(1)(2)	
CUH-B1.3	RITTILING 03 RFRC-420	VESTIBULE B100	300	15,400	60	2.0	140 / 120	30% P.G.	0.8	1/4	120 / 1 / 60	2 / 10	(1)(2)	

- 1. CAPACITY AT 4500 FEET ELEVATION DERATED FOR 140 DEGREE ENTERING WATER.
- 2. HEATER TO BE INSTALLED IN CEILING FRONT SUPPLY AND RETURN, HINGED ACCESS DOOR TO FILTERS.



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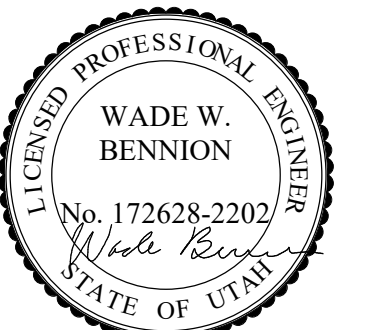


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NOVEMBER 21, 2019

SHEET NAME:
MECHANICAL SCHEDULES

SHEET NUMBER:

M602

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VAV BOX SCHEDULE

Table with columns: ID, MANUFACTURER AND MODEL NUMBER, INLET SIZE, AIR (COOLING, HEATING, MINIMUM, ENTERING AIR TEMP., LEAVING AIR TEMP., S.P. LOSS AT MAX CFM (IN H2O), NC AT 1" H2O (1) S.P., HEAT LOAD (MB), TOTAL FLUID FLOW (GPM), ENT. FLUID TEMP (DEG. F), WORKING FLUID, MAX. FLUID PRESSURE DROP (FT), MIN. COIL ROWS, PIPE SIZE (IN), BALANCING VALVE SIZE (IN), REMARKS. Rows include VR-A1.1 through VR-C2.3.

- 1. MAXIMUM DISCHARGE NC AT BOX DIFFENTIAL PRESSURE BASED ON ARI STANDARD 880-89
2. COIL HEATING CAPACITY BASED ON HEATING MAXIMUM AIR FLOW (60% OF MAXIMUM COOLING CFM).
3. MINIMUM CFM IS LOWEST CONTROLLABLE CFM SETTING (BASED ON 400 FPM INLET VELOCITY).
4. MAXIMUM STATIC PRESSURE DROP PERMISSIBLE ACROSS BOX AND COIL AT MAXIMUM COOLING CFM.
5. BOX COOLING MAXIMUM IS THE SUM OF DIFFUSERS CFM VALUES AS SHOWN IN THE DRAWINGS. BOX MINIMUM CFM TO BE SET AT 30% OF THIS MAXIMUM. BOX HEATING CFM TO BE SET AT 60% OF THIS SAME MAXIMUM. TYPICAL UNLESS OTHERWISE NOTED.
6. PRESSURE INDEPENDENT TYPE BOX.

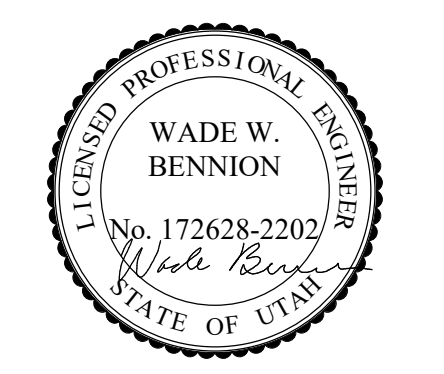
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OGDEN SCHOOL DISTRICT Empowering Excellence Through Education

OGDEN SCHOOL DISTRICT HORACE MANN ELEMENTARY SCHOOL - RFP 20-012 1300 9TH STREET OGDEN, UTAH 84404

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MHTN PROJECT NO. 2019505 Original drawing is 36 x 42. Do not scale contents of this drawing.

Table with columns: NO., DATE, DESCRIPTION. Used for revision tracking.

ISSUE CONSTRUCTION DOCUMENTS NOVEMBER 21, 2019

SHEET NAME MECHANICAL SCHEDULES

SHEET NUMBER M603

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GRILLES, REGISTERS AND DIFFUSERS

Table with columns: ID, MANUFACTURER, MODEL, DESCRIPTION. Rows include CD-1, CD-2, CD-3, SWS-1, SWS-2, RG-1 EG-1, and SWR-1.

EXHAUST FAN SCHEDULE

Table with columns: ID, MANUFACTURER AND MODEL NUMBER, LOCATION, TYPE, AIR TYPE, AIR MAXIMUM AIRFLOW RATE, STATIC PRESSURE, OUTLET VELOCITY, FAN SPEED, FAN WHEEL DIAMETER, STATIC EFFICIENCY, MOTOR SIZE, MOTOR BHP, MOTOR SPEED, VOLT/PH/Hz, LENGTH/ WIDTH/ HEIGHT, NOTES.

- 1. ALL CAPACITIES AT 4500 FT. ELEVATION
2. ROOF MOUNTED EXHAUST FAN, COMPLETE WITH PRE-FAB ROOF CURB, GRAVITY BACKDRAFT DAMPER, BIRD SCREEN, INTEGRAL THERMAL OVERLOAD PROTECTION
3. ROOF MOUNTED KITCHEN GREASE EXHAUST FAN, COMPLETE WITH BIRD SCREEN AND 18" HIGH VENTED ROOF CURB WITH CURB HINGE, FAN DISCHARGE TO BE A MIN. OF 40" ABOVE ROOF AND DUCT INSIDE CURB TO EXTEND A MIN. OF 18" ABOVE ROOF.
4. CEILING MOUNTED EXHAUST FAN, WITH GRAVITY BACKDRAFT DAMPER, INTERGRAL THERMAL OVERLOAD PROTECTION.
5. CONTROL: BUILDING ENERGY MANAGEMENT SYSTEM BY ATC.
6. CONTROL: ON-OFF WALL SWITCH WITH 60 MINUTE TIMER, BY DIV. 16.
7. CONTROL: INTERLOCK WITH MAKE-UP AIR UNIT BY DIV. 16
8. CONTROL: INTERLOCK WITH DISHWASHER BY DIV. 16

HOT WATER UNIT HEATER SCHEDULE

Table with columns: ID, MANUFACTURER AND MODEL NUMBER, LOCATION, TYPE, USE TYPE, AIRFLOW RATE, LOAD, ENTERING TEMP, LEAVING TEMP, FLOW RATE, ENTERING/ LEAVING TEMP, WORKING FLUID, HEAD LOSS, MOTOR SIZE, MOTOR SPEED, VOLT/PH/Hz, MINIMUM NO. ROWS/ FINIS PER, NOTES.

FINNED RADIATOR SCHEDULE

Table with columns: ID, MANUFACTURER AND MODEL NUMBER, TYPE, LOCATION, EFFECTIVE LENGTH, TUBE SIZE, FIN SIZE, MIN. HEATING LOAD/FT, MINIMUM TUBE VELOCITY, FLUID FLOW PER SECTION, AVE WATER TEMP, NOTES.

- 1. COPPER-ALUMINUM ELEMENT.
2. DERATED BTUH OUTPUT SHOWN IN SCHEDULE.
3. CUSTOM CABINET ENCLOSURE TO HOUSE ELEMENT AND HWS/R PIPING AS SHOWN ON DRAWINGS.
4. WALL TO WALL, 14" HIGH ENCLOSURE WALL MOUNTED, 4" ABOVE FLOOR TOP OF ENCLOSURE 18" ABOVE FINISHED FLOOR.
5. WALL TO WALL, PEDISTAL ENCLOSURE WALL MOUNTED, 4" ABOVE FLOOR TOP OF ENCLOSURE 8" ABOVE FINISHED FLOOR.

PUMP SCHEDULE

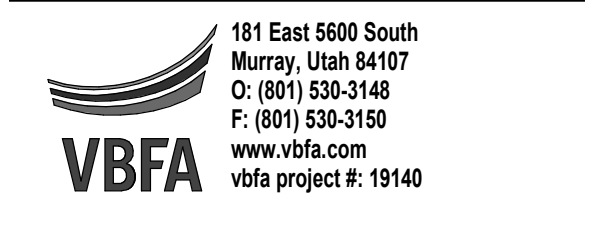
Table with columns: ID, MANUFACTURER AND MODEL NUMBER, LOCATION, TYPE, FLUID RATE, WORKING FLUID, HEAD LOSS, EFFICIENCY, CONSTRUCTION, MOTOR SIZE, MOTOR BHP, MOTOR SPEED, VOLT/PH/Hz, NOTES.

- 1. PRIMARY PUMP.
2. STANDBY PUMP.
3. PROVIDE VFD-DUTY RATED MOTOR: VFD BY DIVISION 26.

LOUVER SCHEDULE

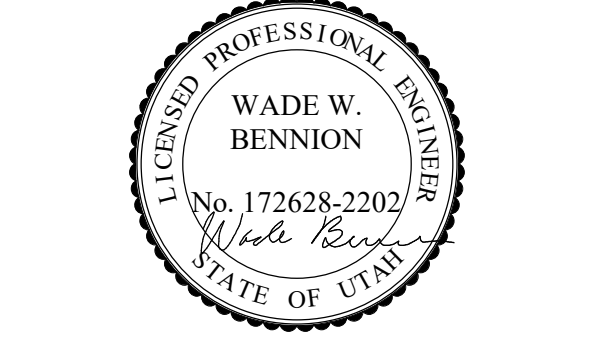
Table with columns: ID, MANUFACTURER AND MODEL NUMBER, LOCATION, TYPE, AIR TYPE, AIR MAXIMUM AIRFLOW RATE, STATIC PRESSURE, WIDTH/ HEIGHT/ THICKNESS, NOTES.

- 1. PROVIDE CHANNEL FRAME ALUMINUM CONSTRUCTION WITH BIRD SCREEN.
2. PROVIDE FLANGE FRAME, ALUMINUM CONSTRUCTION WITH INSECT SCREEN.



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MHTN PROJECT NO. 2019505

Original drawing is 36" x 42". Do not scale contents of this drawing.

REVISIONS: CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

Table with columns: NO., DATE, DESCRIPTION.

ISSUE: CONSTRUCTION DOCUMENTS
NOVEMBER 21, 2019

SHEET NAME: MECHANICAL SCHEDULES

SHEET NUMBER: M604