



Mortensen Engineering, Inc.
 25 South 830 East
 Smithfield, Utah 84335
 (435) 770-5534

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DATE
 May 11, 2020

PROJECT TITLE
MCKINLEY ELEMENTARY SCHOOL
 Boiler Replacement Project
 120 West 500 South
 Tremonton, Utah 84337

SHEET TITLE
MECHANICAL SCHEDULES

PROJECT NUMBER

REVISIONS
 May 21, 2020

SHEET NUMBER

M2.2

HEATING COIL SCHEDULE														
SYMBOL	HEATING CFM	MAXIMUM CFM	MAX. FACE VELOCITY (FPM)	MAX. S.P. LOSS (\"WG.)	TOTAL CAPACITY (MBTUH)	ENT. AIR (\"F)	LVG. AIR (\"F)	CIRCULATING FLUID					COIL SIZE (H x L)	ACCESSORIES AND REMARKS
								FLUID	GPM	TEMP. IN (\"F)	TEMP. OUT (\"F)	MAX. LOSS (FT. FLUID)		
HC 1	18,500	18,500	500	0.7	936	40	95	30% P.G.	125	140	120	10	-	(1)(2)
HC 2	18,500	18,500	500	0.7	936	40	95	30% P.G.	125	140	120	10	-	(1)(2)
HC 3	15,100	15,100	500	0.7	765	32	95	30% P.G.	105	140	120	10	-	(1)(2)

- (1) CAPACITY AT 4300 FT. ELEVATION.
- (2) FIELD VERIFY EXACT COIL DIMENSIONS.

CHEMICAL FEED SYSTEM SCHEDULE											
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	OPERATOR	PUMP				PHYSICAL		NOTES
					PRESSURE RATING (PSIG)	DISCHARGE PRESSURE (PSIG)	HP	VOLTPH/Hz	DIAMETER/HEIGHT (IN)	TANK SIZE (GAL)	
CFE 1	POWER ENG GCT	GYM MECHANICAL	30% PPG	HOT WATER	3.8	40	1/3	115/160	2333	50	(1)

- (1) SET FILL PRESSURE TO MATCH ASSOCIATED EXPANSION TANK SCHEDULED FILL PRESSURE.

PUMP SCHEDULE									
PUMP NO.	MANUFACTURER AND MODEL NO.	GPM	HEAD FT.	H.P.	RPM	VOLTS/PHASE/CYCLE	EQUIPMENT OR AREA SERVED	EFFICIENCY	COMMENTS
P 1	PATTERSON E2.5F9A-CC	355	60	10	1760	208/3/60	HEATING HOT WATER	75.8	(1)(2)
P 2	PATTERSON E2.5F9A-CC	355	60	10	1760	208/3/60	HEATING HOT WATER	75.8	(1)(2)

- (1) NON OVERLOADING MOTOR - VARIABLE FREQUENCY DRIVE - SEE SPECIFICATIONS.
- (2) PRIMARY/STANDBY

AIR SEPARATOR SCHEDULE								
SYMBOL	MANUFACTURER	MODEL	FLOW GPM	P.D. FT. HD.	STRAINER	AIR VENT	SYSTEM	COMMENTS
AS 1	PATTERSON	TAS006	350	0.9	NO	AUTO AIR VENT	HEATING WATER	WATER

EXPANSION TANK SCHEDULE										
SYMBOL	MANUFACTURER	MODEL	VOLUME		DIAMETER	LENGTH	INITIAL PRES. PSI	FINAL PRES. PSI	RELIEF PRES. PSI	COMMENTS
			TOTAL	ACCEPT.						
ET 1	PATTERSON	NLA-600	158	158	30"	65'	15.8	55.0	60.0	HEATING WATER SYSTEM

HOT WATER BOILER SCHEDULE (GAS-FIRED) (OWNER FURNISHED)											
SYMBOL	DESCRIPTION	MANUFACTURER # MODEL NO.	MBH INPUT	MBH OUTPUT	ELECTRICAL			GPM	TEMP. IN	TEMP. OUT	COMMENTS
					H.P.	VOLT	PHASE				
B 1	DIRECT VENT CONDENSING	FULTON FHW2000	2,000	1,890	-	120	1	232	120	180	(1)(2)(3)(4)(5)(6)
B 2	DIRECT VENT CONDENSING	FULTON FHW2000	2,000	1,890	-	120	1	232	120	180	(1)(2)(3)(4)(5)(6)

- (1) CAPACITIES BASED ON 4300 FEET ELEVATION.
- (2) DIRECT VENT CONDENSING BOILER.
- (3) 60 PSI ASME PRESSURE RATING.
- (4) PROVIDE NEW MODSYNC SEQUENCING SYSTEM, OUTSIDE AIR SENSOR, LEADLAG, PACKAGED DISCHARGE WATER TEMPERATURE, AND OUTSIDE AIR RESET CONTROLS. COORDINATE WITH BUILDING BAS CONTROL SYSTEM. MODSYNC TO MAINTAIN SYSTEM SETPOINT PRESSURE BY CONTROLLING THE SYSTEM PUMPS AND VFD'S.
- (5) PROVIDE RELAY FOR ATC EMERGENCY STOP.
- (6) BOILERS AND MUFFLERS ARE OWNER FURNISHED. PROVIDE ALL VENT AND INTAKE PIPING.

UNIT HEATER SCHEDULE (GAS-FIRED)									
SYMBOL	MANUFACTURER # MODEL	FUEL	INPUT BTU/HR.	(3) OUTPUT BTU/HR.	FLUE SIZE	AIR DELIVERY	MOTOR H.P.	VOLTS/PHASE/CYCLES	COMMENTS

- (1) CONDITIONS AT 4600 FT. ELEVATION.
- (2) COMPLETE WITH THERMOSTAT AND ALL CONTROLS.
- (3) SEA LEVEL/DERATED OUTPUT BTU/H

