

File: H: DRAWINGS\MT_KISCO\SAW MILL PUMP STATION\SHPS_PUMP_STATION_HVAC REV2.DWG Saved: 1/21/2022 10:44:13 AM Plotted: 1/21/2022 3:48:36 PM User: Kyle Muller -LastSavedBy: mullerk

HYDRONIC BOILER SCHEDULE												
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FUEL TYPE	INPUT CAPACITY (MBH)	NET RATING (MBH)	DOE RATING (MBH)	EFFICIENCY	WORKING FLUID	Design Temps		NOTES
										EWT (Df)	LWT (Df)	
B-1	WEIL MCLAIN EVERGREEN 220	BOILER RM	SS HIGH EFFICIENCY CONDENSING	LP GAS	220	179	206	95%	30% PROPYLENE GLYCOL	180	160	TACO 0014 120/60/1 1, 2

1. PROVIDE WEIL MCLAIN DIRECT VENT KIT
2. PROVIDE WEIL MCLAIN EASY-UP MANIFOLD KIT

HYDRONIC HEATER SCHEDULE															
ID	ROOM NUMBER	LOCATION	ZONE	MODEL	BTU/HR	FLOW RATE (GPM)	WORKING FLUID	DIMENSIONS			PIPE CONN SIZE (IN)	MOUNTING LOCATION	EWT (df)	LWT (df)	NOTES
								LENGTH (FT)	WIDTH (IN)	HEIGHT (IN)					
FTR-1		BATH	1	MODINE S 012	4,450	2	30% PROPYLENE GLYCOL	5	5.25	12	3/4	4" AFF	180	173.3	4.25" X 4.25" FINS @ 34/FT
FTR-2		BOILER ROOM	1	MODINE S 012	4,450	2	30% PROPYLENE GLYCOL	5	5.25	12	3/4	4" AFF	180	173.3	4.25" X 4.25" FINS @ 34/FT
FTR-3		STORAGE RM	1	MODINE S 012	7,120	2	30% PROPYLENE GLYCOL	8	5.25	12	3/4	4" AFF	180	169.3	4.25" X 4.25" FINS @ 34/FT

NOTE: PROVIDE ALL REQUIRED CONNECTIONS, ENCLOSURE EXTENSIONS, END CAPS, ETC TO PROVIDE A COMPLETE INSTALLATION.

VRF HEAT PUMP SYSTEM							
ID	MANUFACTURER	LOCATION	MODEL NUMBER	COOLING/HEATING CAPACITY (BTU/HR)	VOLT/PH/HZ	REFRIGERANT	
HP-1							
HP-2	MITSUBISHI	OFFICE	MSZ-FH12NA-U1	12,000/12,300	208-230/1/60	R410A	1
HP-3	MITSUBISHI	ELECTRIC ROOM	MSZ-FH12NA-U1	12,000/12,300	208-230/1/60	R410A	1

HYPER-HEAT
NOTE 1: PROVIDE PAC-YT53CRAU-J CONTROLLER

Belt Drive Upblast Centrifugal Wall Exhaust Fan

MARK INFORMATION			FAN INFORMATION					MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	EF1 - PUMP RM	CUBE-240-7	4,000	0.5	619	0.66	136	0.75	460/60/3	TF	1725	1	1.6

*NEC FLA - Based on table [430.250](#) or [430.248](#) of National Electrical Code 2017. Actual motor FLA may vary for sizing thermal overload, consult factory"

EF1 - PUMP RM : SELECTED OPTIONS AND ACCESSORIES
Standard Curb Cap Size - 34 in. Square Sidewall Mounting - Fan Configured for Wall-Mounted Applications Spark B Construction UL/cUL 705 Listed - "Power Ventilators" Switch, NEMA-1, Toggle, Shipped with Unit Coated with Permatector, Concrete Gray-RAL 7023, Fan And Attached Acc Hood Hasps Stainless Steel Shaft - 300 Series Wall Grille, Shipped Loose (PN 916480) Birdscreen: Aluminum, nom. 86% Free Area Bearings with Grease Fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs) Aluminum Rub Ring

Belt Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION						MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	EF2 - INFLUENT	CUBE-200-15	3,500	1	992	1.18	212	1.5	460/60/3	EX	1725	1	3

*NEC FLA - Based on table [430.250](#) or [430.248](#) of National Electrical Code 2017. Actual motor FLA may vary for sizing thermal overload, consult factory"

EF2 - INFLUENT : SELECTED OPTIONS AND ACCESSORIES
Standard Curb Cap Size - 30 in. Square Spark B Construction UL/cUL 705 Listed - "Power Ventilators" Switch, NEMA-7 and 9, Toggle, Shipped with Unit, Division1 Wiring Foam Curb Seal (Attached) Adapter-Alum., Curb Cap Adapted to 32 x 32 (Attached), Coated Coated with Permatector, Concrete Gray-RAL 7023, Fan And Attached Acc Non-Stick Coated Wheel (Teflon) Hood Hasps Stainless Steel Shaft - 300 Series Birdscreen: Aluminum, nom. 86% Free Area Bearings with Grease Fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs) Aluminum Rub Ring

PUMP SCHEDULE										
ID	ZONE	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLUID FLOW RATE (GPM)	ELECTRICAL				
						HEAD IN FT	CONSTRUCTION	MOTOR SIZE (HP)	MOTOR SPEED (RPM)	VOLT/PH/HZ
P-1	1	TACO 009-IFC	MECHANICAL	CIRCULATOR	2	14	IRON	1/8	3450	120/1/60
P-2	2	TACO 011-IFC	MECHANICAL	CIRCULATOR	6	18	IRON	1/8	3250	120/1/60
P-3	3	TACO 2445	MECHANICAL	CIRCULATOR	8	35	IRON	1/3	3450	120/1/60

PROVIDE BALL VALVES, CHECK VALVES, FLANGES AND OTHER APPURTENANCES TO MAKE A COMPLETE SYSTEM

UNIT HEATER SCHEDULE											
ID	LOCATION	MANUFACTURER AND MODEL NUMBER	TYPE	BTU	GPM	EWT (Df)	LWT (Df)	VOLT/PH/HZ	MAX MTG HGT (FT)	NOTES	
UH-1	1ST FLOOR	MODINE HC 47	HORIZONTAL	30,900	3.2	180	159.9	115/60/1	13		
UH-2	1ST FLOOR	MODINE HC 47	HORIZONTAL	30,900	3.2	180	159.9	115/60/1	13		
UH-3	MID LEVEL	MODINE HC 33	HORIZONTAL	21,700	2.3	180	160.3	115/60/1	11		
UH-4	MID LEVEL	MODINE HC 33	HORIZONTAL	21,700	2.3	180	160.3	115/60/1	11		
UH-5	LOWER LEVEL	MODINE HC 33	HORIZONTAL	21,700	2.3	180	160.3	115/60/1	11		
UH-6	LOWER LEVEL	MODINE HC 33	HORIZONTAL	21,700	2.3	180	160.3	115/60/1	11		

LOUVER SCHEDULE											
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	CFM	WIDTH (IN)	HEIGHT (IN)	DEPTH (IN)	NOTES			
LV-1	GREENHECK ECD-601	MAIN FLOOR	STATIONARY EXTRUDED, DRAINABLE BLADE	1250	24	24	6	1			
LV-2	GREENHECK ECD-601	MAIN FLOOR	STATIONARY EXTRUDED, DRAINABLE BLADE	1250	24	24	6	1			

NOTES:
1. PROVIDE WALL SLEEVE, CHANNEL FRAME, BAKED ENAMEL FINISH (COLOR TBD), BIRDSCREEN, 120V ACTUATOR

Belt Drive Upblast Centrifugal Wall Exhaust Fan

MARK INFORMATION			FAN INFORMATION					MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	EF3	CUBE-240-4	2,500	0.29	431	0.23	147	0.25	115/60/1	TF	1725	1	5.8

*NEC FLA - Based on table [430.250](#) or [430.248](#) of National Electrical Code 2017. Actual motor FLA may vary for sizing thermal overload, consult factory"

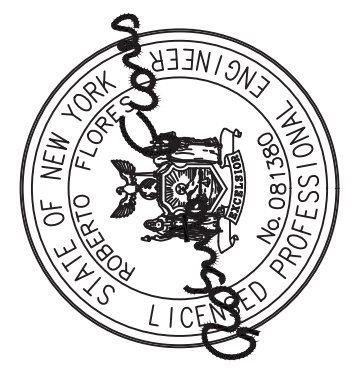
EF3 : SELECTED OPTIONS AND ACCESSORIES
Standard Curb Cap Size - 34 in. Square Sidewall Mounting - Fan Configured for Wall-Mounted Applications UL/cUL 705 Listed - "Power Ventilators" Switch, NEMA-1, Toggle, Shipped with Unit Damper Shipped Loose, WD-330-PB-24X24, Gravity Operated, Not Coated Coated with Permatector, Concrete Gray-RAL 7023, Fan And Attached Acc Hood Hasps Stainless Steel Fasteners - 300 Series Stainless Steel Shaft - 300 Series Wiring Pigtail, Internal, General, 9 ft from Unit of Flexible Metal Conduit Birdscreen: Aluminum, nom. 86% Free Area Bearings with Grease Fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs)

DATE: 01/22
DRAWN BY: MULLERK
SCALE: AS SHOWN
REVIEWED BY:
PROJECT NO.: 19-1843
FILE: SHPS_PUMP_STATION_HVAC_REV1.DWG

DELAWARE
ENGINEERING, D.P.C.



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REVISIONS		DESCRIPTION
NO.	DATE	

SAW MILL PUMP STATION
UPGRADES
VILLAGE OF MOUNT KISCO
WESTCHESTER COUNTY, NY

HVAC SCHEDULES

SHEET:

H1

BID PLANS

WARNING - IT IS A VIOLATION OF NEW YORK EDUCATION LAW SECTION 7209.2, FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION LAW, SECTION 7209.2.