ROOF TOP AIR HANDLER UNIT SCHEDULE

NUMBER	MANUFACTURER AND MODEL	SUPPLY AIR FAN				EXHAUST AIR FAN				ELECTRICAL			MINIMUM COOLING CAPACITY				HEATING SECTION (COIL PERFORMANCE)									INDOOR FAN SECTION					FILTERS	SEMCO, LLC	ENERGY RECOVERY HEAT EXCHANGER										MOTOR HP	VOLT./ PH.	MCA	MOCP	NOTES
		NOMINAL CFM	SP (IN WG) TSP	SP (IN WG) ESP	MOTOR HP	NOMINAL CFM	SP (IN WG) TSP	SP (IN WG) ESP	MOTOR HP	Volts/Phs/Hz	MCA	MOP	GROSS SENSIBLE MBH	GROSS TOTAL MBH	NET SENSIBLE MBH	NET TOTAL MBH	TOTAL CAPACITY MBH	ACTUAL AIRFLOW CFM	HEATING EAT (°F) DB	HEATING LAT (°F) DB	APD	FLUID FLOW RATE	ENTERING /LEAVING FLUID RATE (°F)	FLUID PD	ROWS	AIR FLOW (CFM)	SUPPLY MOTOR HP	INDOOR MOTOR OPERA. POWER	MOTOR RPM	DESIGN ESP IN H20	TYPE	TYPE	EXH CFM	OA CFM (MAX)	MAX APD (IN.WG.)	ESP (IN WG) SUPPLY	ESP (IN WG) EXHAUST	SUMMER OA EAT °F DB/WB	SUMMER OA LAT °F DB/WB	SUMMER EXH EAT °F DB/WB	SUMMER EXH LAT °F DB/WB	WINTER OA EAT °F DB/WB	WINTER OA LAT °F DB/WB	WINTER EXH EAT °F DB/RH	WINTER EXH LAT °F DB/WB					
* RTU-9	TRANE THJ180A4S0N	4,500	1.1	1.0	3.0	4,500	1.1	1.0	3.0	460/3/60	41.0	50.0	125,800	180,200	121,400	177,600	195,200	4,500	55.0	95.0	0.154	19.5	180.0 / 160	3.54 FT	1	4,500	3.0	1.6	1,096	1.0	PRE: MERV 13 FINAL : MERV 13	ENTHALPY WHEEL	2,800	3,500	0.37	-0.30	0.50	85.0 / 76.0	80.2 / 68.8	78.0 / 65.0	84.0 / 74.5	3.0 / 2.0	52.0 / 43.9	75.0 / 56.5	13.7 / 13.1	SPLY/EX 0.8 1.0	480V/3	12.1	15.0	1,2,3,4,5,6,7,8,9,10
RTU-22	TRANE THJ180A3S00	5,250	1.07	1.0	3.0	5,250	1.1	1.0	3.0	208-230/ 60/3	78.0	100.0	135,700	185,000	130,600	179,900	----	----	----	----	----	----	----	----	----	5,250	3.0	1.7	1,107	1.0	PRE: MERV 13 FINAL : MERV 13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1,2,3,4,5,6,7,8,9,10
RTU-24	TRANE THJ300A4S00	8,000	1.4	1.0	3.0	8,000	1.3	1.0	3.0	460/3/60	59.0	80.0	195,000	272,500	185,800	263,300	----	----	----	----	----	----	----	----	----	8,000	3.0	4.2	1,479	1.0	PRE: MERV 13 FINAL : MERV 13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1,2,3,4,5,6,7,8,9,10
RTU-25	TRANE TJ072A3S00	1,860	1.0	1.0	3.0	1,860	1.0	1.0	3.0	208-230/3/60	38.0	50.0	50,900	72,900	48,900	71,000	----	----	----	----	----	----	----	----	----	1,860	3.0	0.6	1,000	1.0	PRE: MERV 13 FINAL : MERV 13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1,2,3,4,5,6,7,8,9,10
RTU-26	TRANE THJ180A3S00	5,250	1.1	1.0	3.0	5,250	1.1	1.0	3.0	208-230/3/60	78.0	100.0	135,790	185,000	130,600	179,900	----	----	----	----	----	----	----	----	----	5,250	3.0	1.9	1,135	1.0	PRE: MERV 13 FINAL : MERV 13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1,2,3,4,5,6,7,8,9,10
RTU-31	TRANE THJ120A3S00	3,700	1.1	1.0	3.0	3,700	1.2	1.0	3.0	208-230/ 60/3	54.0	70.0	91,800	122,500	87,500	118,200	----	----	----	----	----	----	----	----	----	3,700	3.0	1.4	1,343	1.0	PRE: MERV 13 FINAL : MERV 13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1,2,3,4,5,6,7,8,9,10
RTU-32	TRANE THJ120A3S00	3,700	1.1	1.0	3.0	3,700	1.1	1.0	3.0	208-230/ 60/3	54.0	70.0	91,800	122,500	87,500	118,200	----	----	----	----	----	----	----	----	----	3,700	3.0	1.4	1,343	1.0	PRE: MERV 13 FINAL : MERV 13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1,2,3,4,5,6,7,8,9,10
RTU-33	TRANE THJ240A3S00	8,000	1.1	1.0	3.0	3,700	1.3	1.0	3.0	208-230/ 60/3	108.0	125.0	186,900	246,200	177,700	237,100	----	----	----	----	----	----	----	----	----	8,000	3.0	3.2	1,362	1.0	PRE: MERV 13 FINAL : MERV 13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1,2,3,4,5,6,7,8,9,10
* RTU-41	TRANE TCD480C40-0D3NE800D-HUB00K0R0N00-0000X	15,500	3.2	1.2	15	15,500	3.2	1.2	15	460/3/60	101.0	125.0	365,000	469,400	323,080	427,400	41-1 168,100	3,875	55.0	95.0	0.135	16.7	180.0 /160.0	2.60 FT	1	15,500	15.0	----	730	1.25	PRE: MERV 14 FINAL : MERV 14	ENTHALPY WHEEL	15,550	6,800	0.05	-0.30	0.50	85.0 / 76.0	77.7 / 67.2	75.0 / 62.5	82.0 / 72.1	3.0 / 3.0	53.2 / 44.2	75.0 / 57.5	23.4/ 23.3	SPLY/EX .25 14.8	460V/3	118.4	143.8	1,2,3,4,5,6,7,8,9,10
																	41-2 224,100	5,166	55.0	95.0	0.136	22.3	180.0 /160.0	2.01 FT	1																									
																	41-3 280,100	6,450	55.0	95.0	0.135	27.9	180.0 /160.0	2.45 FT	1																									

3 COILS FOR RTU 41

NOTES:
1. UNIT CONTROLS SHALL BE FURNISHED BY BMS MANUFACTURER AND FACTORY INSTALLED BY UNIT MANUFACTURER. REFER TO SPEC SECTION 230900.
2. FURNISH UNITS WITH 100% RECIRCULATION DAMPER FOR UNOCCUPIED HEATING MODE.
3. FURNISH UNITS WITH SINGLE POINT POWER CONNECTION.
4. FURNISH WITH VFD AND DISCONNECT SWITCH FOR SUPPLY FAN AND EXHAUST FAN.
5. PROVIDE INTERNAL PIPE CHASE. UNIT CASING SHALL ACCOMMODATE ALL CHILLED WATER AND HOT WATER COIL PIPING AND ACCESSORIES INCLUDING CONTROL VALVES AND SHUTOFF VALVES.
6. ALL FAN MOTOR DRIVE ASSEMBLIES SHALL BE MOUNTED ON 1.5 INCH STATIC DEFLECTION VIBRATION ISOLATORS.
7. VFD SHALL BE PROVIDE AND INSTALLED FROM THE MANUFACTURER..
8. PROVIDE WITH INDIRECT CONDENSATE DRAINS WITH AN AIRGAP.
9. ★ RTU #9 AND RTU #41 ARE CONVERTING FROM HEATING ONLY TO HEATING AND COOLING UNITS
10. RTU 9 IS MULTI POINT POWER CONNECTION. RTU 22 THRU RTU 41 ARE SINGLE POINT.

ROOF TOP AIR HANDLER COILS

EXISTING UNITS:	NEW UNITS:	COMMENTS:
*RTU #9 = HEATING COIL INSIDE THE UNIT	RTU#9=HEATING COIL INSIDE THE UNIT DX COIL INSIDE THE UNIT	
RTU #22 = HEATING COILS INSIDE THE VAV DX COIL IN THE UNIT.	RTU#22=DX COIL INSIDE THE UNIT	
RTU #24 =HEATING COIL INSIDE THE UNIT DX COIL IN THE UNIT.	RTU#24=DX COIL INSIDE THE UNIT	
RTU #25 =HEATING COILS INSIDE THE VAV DX COIL IN THE UNIT.	RTU#25=DX COIL INSIDE THE UNIT	
RTU #26 =HEATING COILS INSIDE THE VAV DX COIL IN THE UNIT.	RTU#26=DX COIL INSIDE THE UNIT	
RTU #31 = 2 HEATING COILS IN CEILING DX COIL IN THE UNIT.	RTU#31=DX COIL INSIDE THE UNIT	
RTU #32 =HEATING COILS INSIDE THE VAV DX COIL IN THE UNIT.	RTU#32=DX COIL INSIDE THE UNIT	
RTU #33 =HEATING COILS INSIDE THE VAV DX COIL IN THE UNIT.	RTU#33=DX COIL INSIDE THE UNIT	
*RTU #41=HEATING COIL INSIDE THE UNIT.	RTU#41=HEATING COIL INSIDE THE UNIT DX COIL INSIDE THE UNIT	

ROOF TOP AIR HANDLER UNIT WEIGHTS

EXISTING UNITS:	NEW UNITS:	COMMENTS:
* RTU #9 = 3,710 LBS.	* RTU #9 = 1931 LBS.	
RTU #22 = 1,370 LBS.	RTU #22 = 1,981 LBS.	
RTU #24 = 2,285 LBS.	RTU #24 = 2,040 LBS.	
RTU #25 = 630 LBS.	RTU #25 = 1,001 LBS.	
RTU #26 = 1,370 LBS.	RTU #26 = 1,981 LBS.	
RTU #31 = 890 LBS.	RTU #31 = 1,031 LBS.	
RTU #32 = 890 LBS.	RTU #32 = 1,031 LBS.	
RTU #33 = 1,820 LBS.	RTU #33 = 2,081 LBS.	
* RTU #41= NO INFORMATION FOUND	RTU #41 = 7,728 LBS.	REFER TO DRAWING S100 FOR STRUCTURAL MODIFICATIONS.

Project Title:
HVAC ROOFTOP UNIT REPLACEMENT:
REGIONAL SCHOOL DISTRICT 10
LEWIS S. MILLS HAR-BUR COMPLEX
24/26 LYON ROAD
BURLINGTON, CONNECTICUT 06013

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
	-		

Drawing Title: MECHANICAL SCHEDULE SHEET
Date: February 1, 2024
Scale: 1/8" = 1'-0"
Drawn By:
Project Number: 23.138
Drawing Number: M400