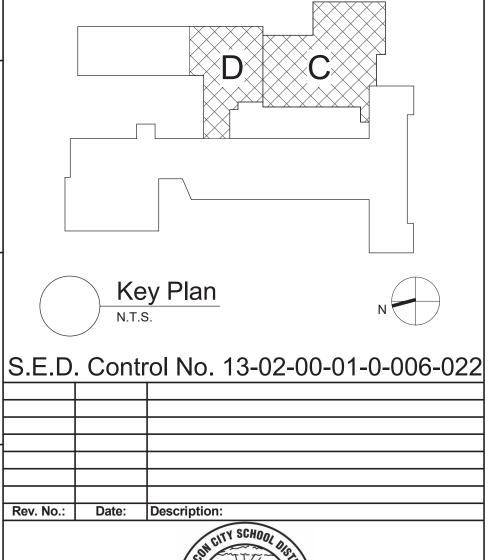
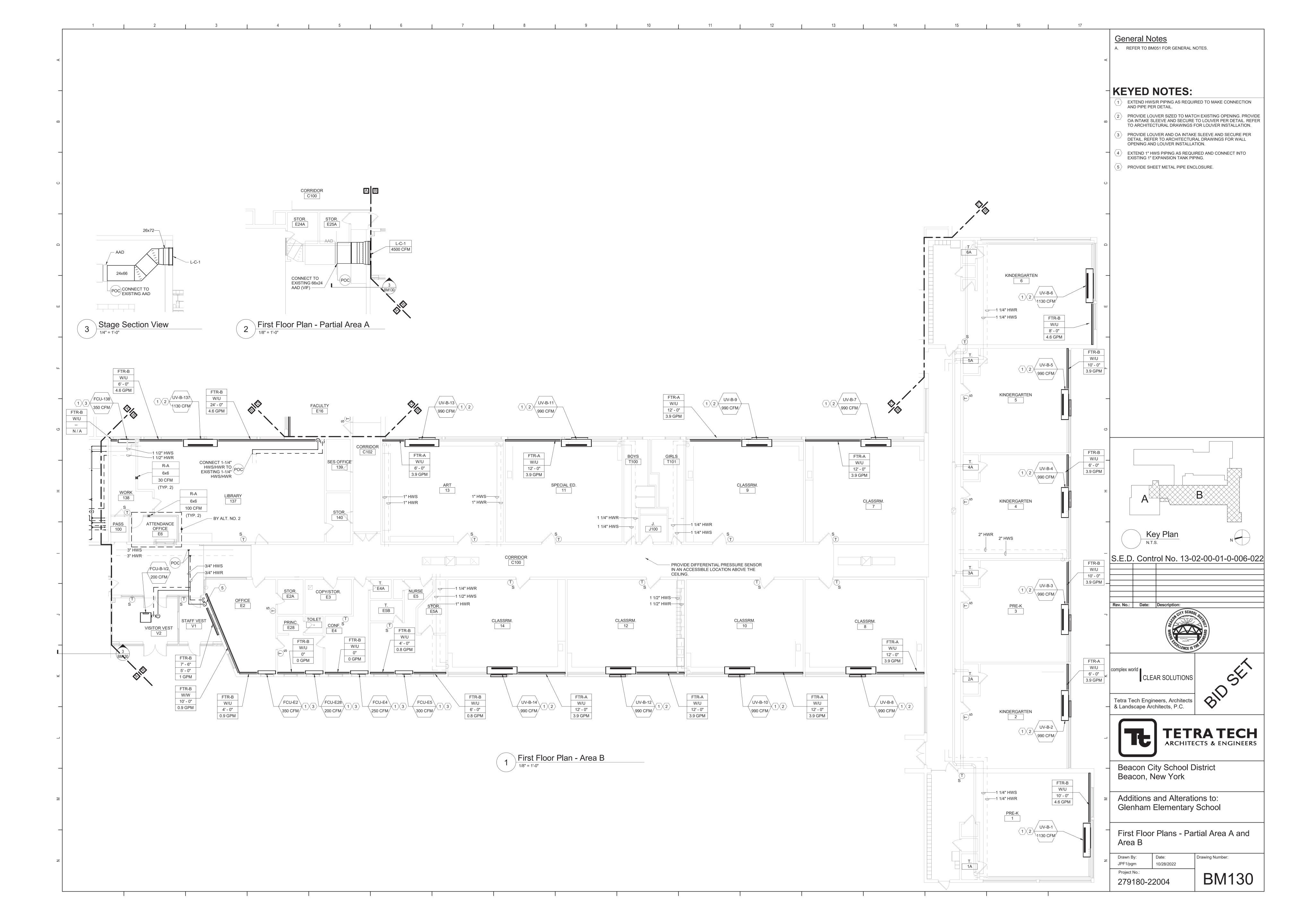
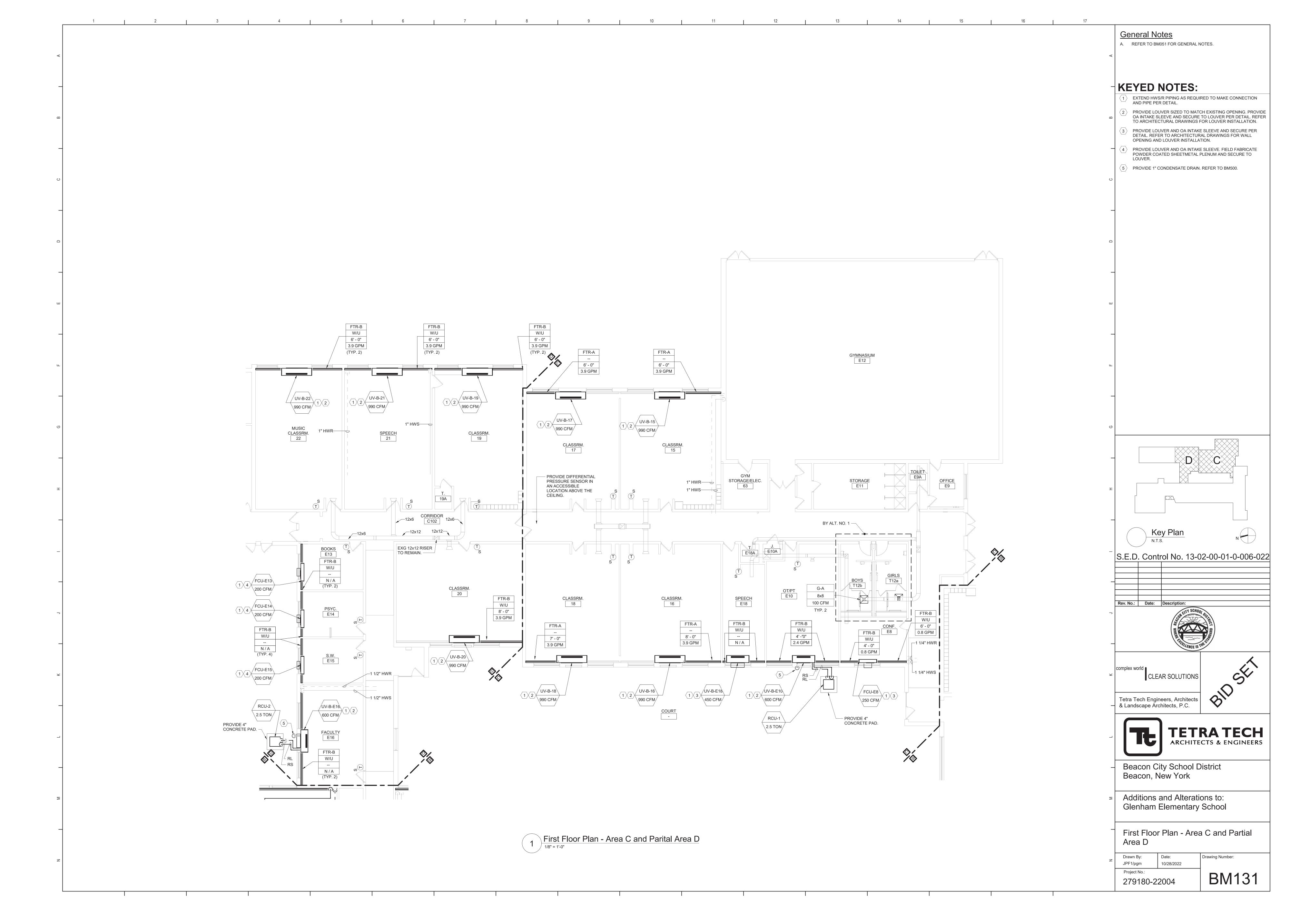


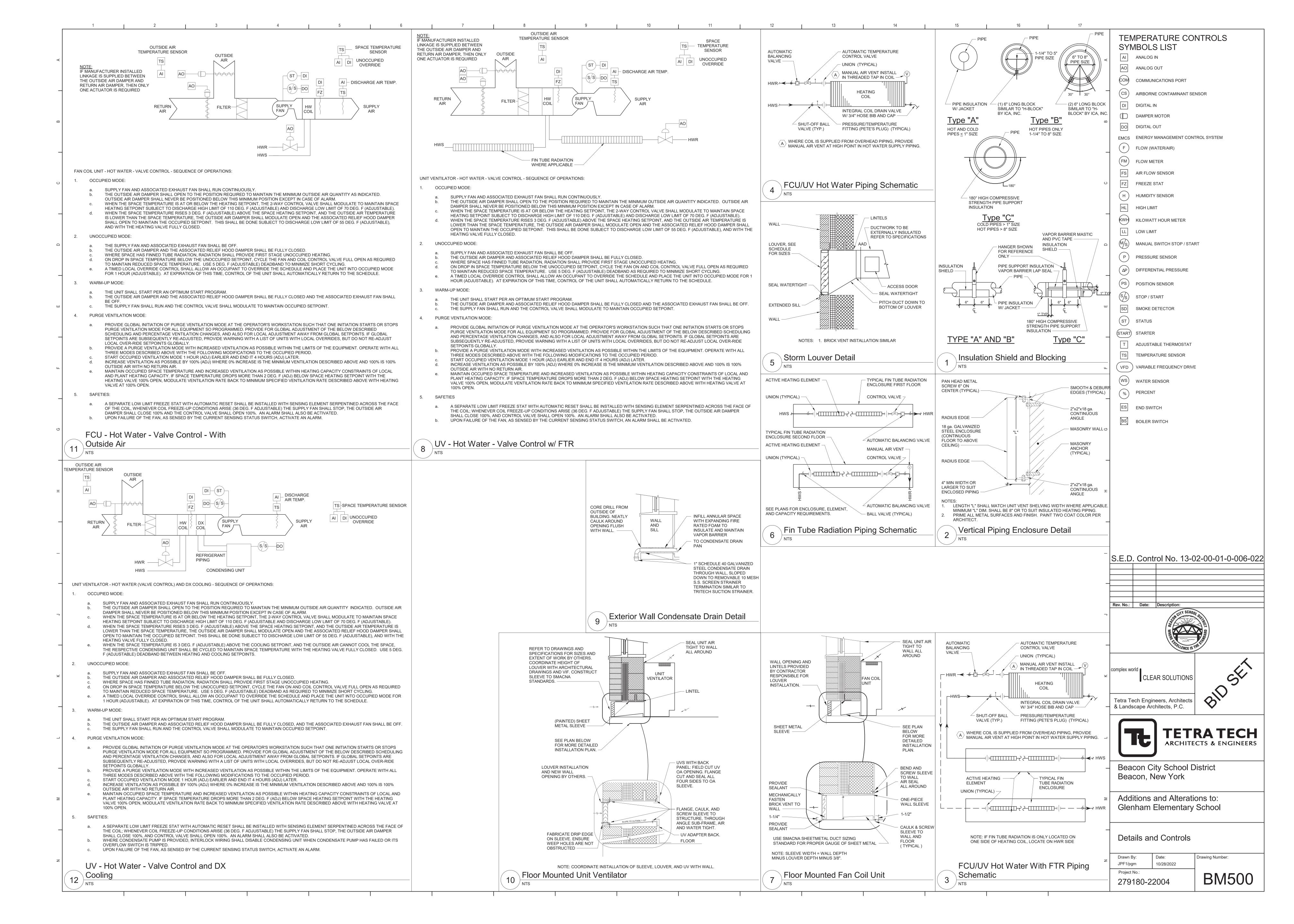
General Notes

A. REFER TO BM051 FOR GENERAL NOTES.







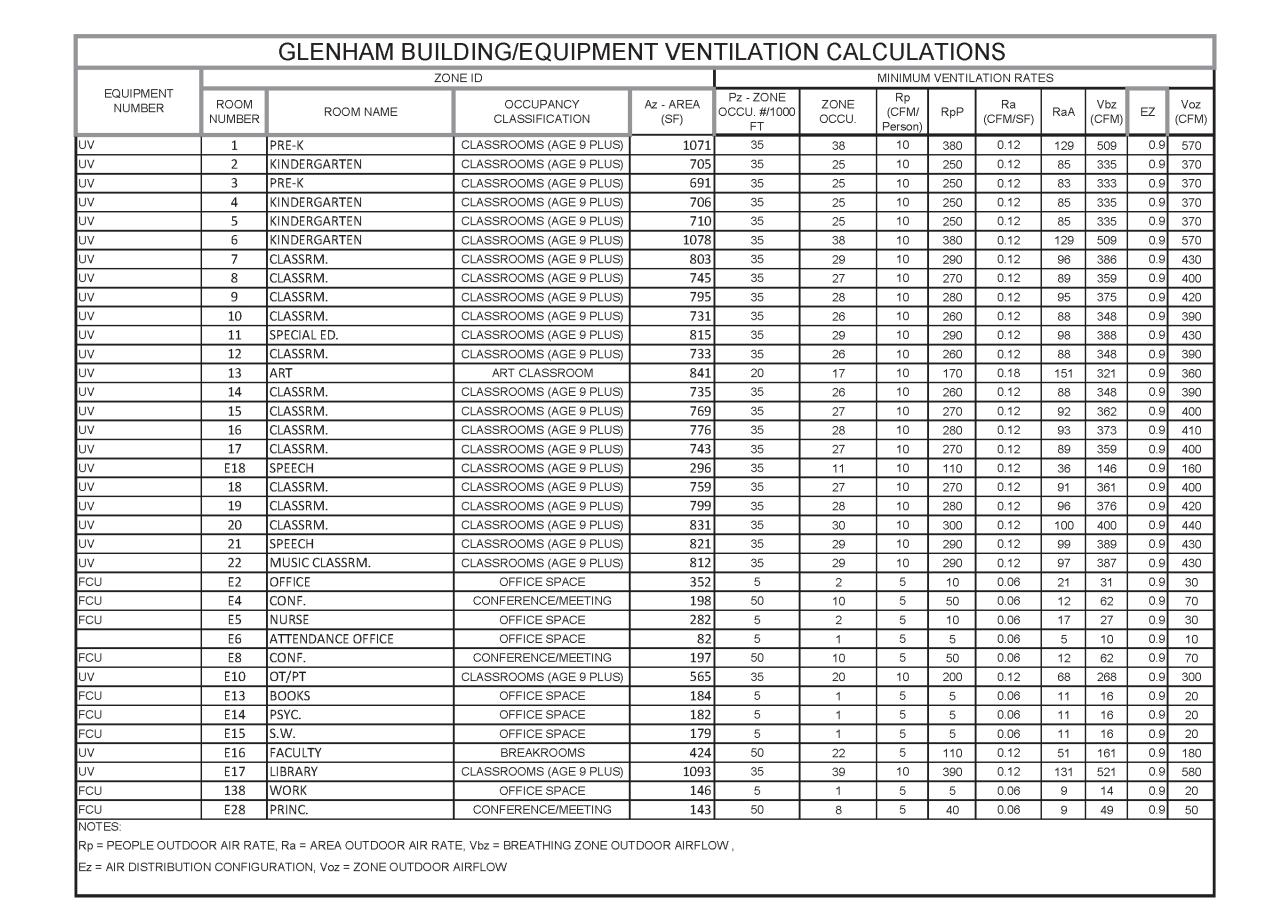


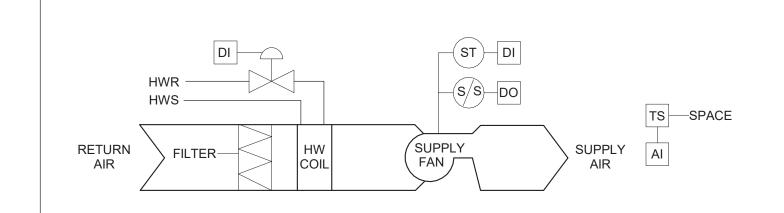
							HEATI	NG DATA		HW	COIL			COO	LING DA	ATA							ELECTRIC	AL			
					MIN.	NO.	EAT		CAP.		WPD	NO.		EWB		LWB	TC	SC	ESP			MOTOR					
DWG LABEL	LOCATION		MODEL NO.	SA CFM	OA	ROW	(°F)	(°F)	(MBH)	GPM	(FT HD)	ROWS	(°F)	(°F)	(°F)	(°F)	(MBH)	(MBH)	(IN. WG.)	RPM	QTY	SIZE (HP)	V/PH	FLA	MCA	MOP	NOT
UV-B-1	PRE-K 1		VUVE150	1130	510	2	40.9	110.0	91.4	4.6	4.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-2	KINDERGARTI	N 2	VUVE125	990	330	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-3	PRE-K 3		VUVE125	990	330	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-4	KINDERGARTI		VUVE125	990	330	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-5	KINDERGARTE	_	VUVE125	990	340	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-6	KINDERGARTE		VUVE150	1130	510	2	40.9	110.0	91.4	4.6	4.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-7	CLASSRM.		VUVE125	990	380	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-8	CLASSRM.		VUVE125	990	350	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-9	CLASSRM.		VUVE125	990	380	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-10	CLASSRM.		VUVE125	990	350	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-11	SPECIAL ED.		VUVE125	990	390	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-12	CLASSRM.	2	VUVE125	990	350	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-13	ART 13	4	VUVE150	990	400	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-14	CLASSRM.		VUVE125	990	350	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-15	CLASSRM.		VUVE125	990	360	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-16	CLASSRM.		VUVE125	990	370	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-17	CLASSRM.		VUVE125	990	350	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-18	CLASSRM.		VUVE125	990	360	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-19	CLASSRM.	-	VUVE125	990	380	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6
UV-B-20	CLASSRM. 2		VUVE125	990	390	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-
UV-B-21	SPEECH 2		VUVE125	990	390	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-
UV-B-22	MUSIC CLASSR		VUVE125	990	380	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-
UV-B-137	LIBRARY 13		VUVE150	1130	520	2	40.9	110.0	91.4	4.6	4.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-
UV-B-E10	OT/PT E10		VUVE075	600	270	2	40.0	110.0	48.2	2.4	1.1	3	80.0	67.0	53.8	51.3	28.1	17.2	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-8, 10
UV-B-E16 UV-B-E18	FACULTY E ² SPEECH E1		VUVE075 VUVE075	600 450	160 140	2	51.2 43.5	110.0	43.7 39.8	2.2	0.9	0	0.0	67.0 0.0	53.8	51.3 0.0	28.1 0.0	17.2 0.0	0.00	730	1	0.25 0.25	120V/1ø 120V/1ø	3.5	4.5 4.5	15 15	1-8, ² 1,2,4,6
2. FLOOR	N BASIS: TRANE MOUNTED UNIT DE 1" MERV8 FILT				ONS: SUC	CTION TE	MP=45°	F, LIQUIE	TEMP=110		OR TO ORDI	7 8 ERING. 9	. NEI	IT 21-1/4 MA 1 DIS OVIDE 1'	CONNE	ECT SW		E TUNNE					SLEEVE T ROVIDE SC				
	DWG							SUCTIO	REMO		CONDI		VG L		(RC		SCHI OMPRES		LE FAN CONDI	ENSER		ELEC	CTRICAL		NE	T WEIGH	т
		CATION	SERVES	MODE	L NO.	REFF	RIG.	(°F)	(°F)	SIZ			APACITY		PACITY		QTY & TY		QTY & DRIV		EER		MOP	V/PH	- INC	(LBS)	' NO
		OUND	UV-B-E10	4TTF		R-41		45	110	3/			5 TONS		000 Btu/h		1 SCRO		1 DIRE		12.2			208 V/2ø		160	1
		OUND	UV-B-E16		R4030	R-41		45	110	3/			5 TONS		000 Btu/l		1 SCRO		1 DIRE		12.2			208 V/1ø		160	1
	NOTES: I. DESIGN E		•					ONTROLS	·	'	'			'					ETS AND CO			1	PROVIDE 4'		'		

N BASIS: TRANE DE MOTOR STARTE EMA 3R DISCONNE	ER 4. F	PROVIDE DEFROST CO PROVIDE LOW AMBIEN' PROVIDE INTERNAL TH	T OPERATI				7. F	IELD CHAR	GE REFRI				COUPLINGS. NSER AND COILS.	9.	PROVIDE 4	" CONCRE	ETE PAD.	
						FAN	COII	L UNIT	(FC	J) SCH	IEDULE							
				HEATII	NG DATA		HV	/ COIL	SUPPLY FAN		ELECTRICAL							
DWG LABEL	LOCATION	MODEL NO.	SA CFM	MIN. OA	NO. ROW	EAT (°F)	LAT (°F)	CAP. (MBH)	GPM	WPD (FT HD)	ESP (IN. WG.)	RPM	MOTOR SIZE (HP)	V/PH	FLA	MCA	MOP	NOTES
FCU-138	WORK 138	FCDB020	350	30	2	63.0	108.6	17.3	0.9	0.9	0.00	1280	0.13	120V/1ø	2.2	2.8	15	1-7
FCU-B-V2	VISITOR VEST	V2 FCDB020	200	0	2	60.0	111.8	11.2	0.6	0.4	0.00	800	0.13	120V/1ø	2.2	2.8	15	1,3-8
FCU-E2	OFFICE E2	FCDB020	350	30	2	63.0	108.6	17.3	0.9	0.9	0.00	1280	0.13	120V/1ø	2.2	2.8	15	1-7
FCU-E4	CONFERENCE	E4 FCDB020	250	70	2	51.5	109.7	15.8	0.8	0.7	0.00	960	0.13	120V/1ø	2.2	2.8	15	1-7
FCILE5	NI IRSE E5	ECDB020	300	30	2	62.1	110.4	15.7	0.8	0.7	0.00	1120	0.13	120\//1a	2.2	2.8	15	1_7

NURSE E5 FCDB020 FCDB020 20 2 62.1 113.9 11.2 0.6 FCU-E13 0.00 BOOKS E13 FCDB020 200 0.00 0.13 FCU-E14 PSYC. E14 FCDB020 200 20 2 62.1 113.9 11.2 0.6 0.4 0.00 FCDB020 200 2 62.1 113.9 11.2 0.6 0.4 800 0.13 2.2 2.8 15 FCU-E15 S.W. E15 FCDB020 200 50 2 53.3 105.1 11.2 0.6 0.4 0.00 FCU-E28 PRINC. E28 800 DESIGN BASIS: TRANE HOT WATER COIL CONDITIONS: EWT=160°F, LWT=120°F 5. VERIFY PIPE AND ELECTRICAL LEFT/RIGHT HAND CONNECTIONS PRIOR TO ORDERING. PROVIDE NEMA 1 VERTICAL CABINET UNIT 4. PROVIDE 1" MERV13 FILTER. PROVIDE RETURN AIR BOTTOM INLET TOP GRILLE OUTLET AND OUTSIDE AIR WALL BOX.. DISCONNECT SWITCH. CEILING CABINET UNIT.

NOTE
1-5





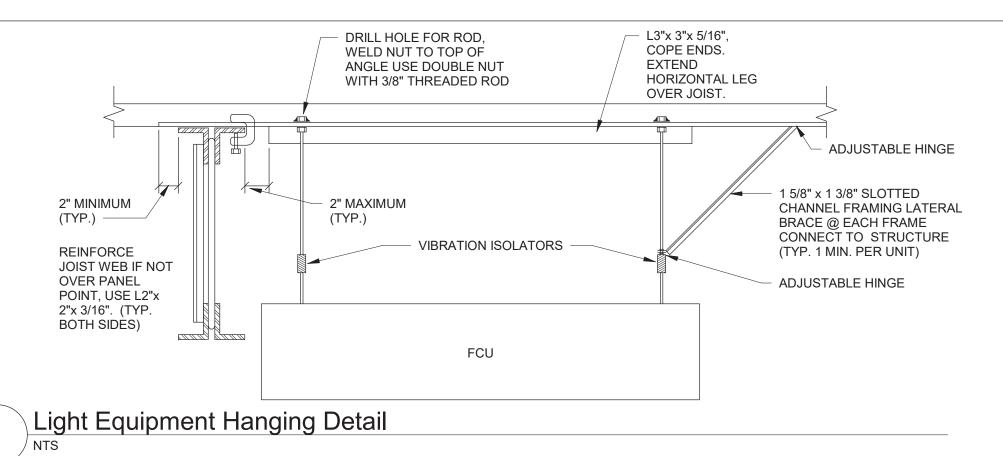
FAN COIL UNIT - HOT WATER - NO OUTSIDE AIR - VALVE CONTROL - SEQUENCE OF OPERATIONS:

OCCUPIED MODE:

ON DROP IN SPACE TEMPERATURE BELOW OCCUPIED HEATING SETPOINT, CYCLE THE FAN ON AND OPEN CONTROL VALVE FULL TO MAINTAIN SPACE OCCUPIED SETPOINT, FAN SHALL HAVE DELAYED SHUT OFF AFTER VALVE CLOSES. USE 5 DEG. F (ADJUSTABLE) DEADBAND TO MINIMIZE SHORT CYCLING.

- UNOCCUPIED MODE:
- ON DROP IN SPACE TEMPERATURE BELOW UNOCCUPIED HEATING SETPOINT, CYCLE THE FAN ON AND OPEN CONTROL VALVE FULL TO MAINTAIN SPACE UNOCCUPIED SETPOINT, FAN SHALL HAVE A DELAYED SHUT OFF AFTER VALVE CLOSES. USE 5 DEG. F (ADJUSTABLE) DEADBAND TO MINIMIZE SHORT CYCLING.
- PROVIDE CURRENT SENSOR TO SENSE THE STATUS OF THE FANS. WHEN FAN MOTOR AMP DRAW IS OUT OF NORMAL RANGE, GENERATE AN ALARM AT THE OWS.

Fan Coil Unit - Hot Water - Valve Control



TS SPACE TEMPERATURE SENSOR

UNOCCUPIED
OVERRIDE

FIN TUBE RADIATION - HOT WATER - WITH 2-WAY CONTROL VALVE - SEQUENCE OF OPERATIONS:

- OCCUPIED MODE:
- a. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE OCCUPIED HEATING SETPOINT, THE CONTROL VALVE SHALL OPEN 100% TO
- UNOCCUPIED MODE:
- a. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE UNOCCUPIED HEATING SETPOINT, THE CONTROL VALVE SHALL OPEN 100% TO MAINTAIN UNOCCUPIED SPACE SETPOINT.
- WARM-UP MODE:
 - a. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE OCCUPIED HEATING SETPOINT, THE CONTROL VALVE SHALL OPEN 100% TO
- MAINTAIN OCCUPIED SPACE SETPOINT.

Fin Tube Radiation - Hot Water - 2-Way

a. IF THE SPACE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY 10 DEG. F (ADJUSTABLE), THE CONTROL VALVE SHALL OPEN 100%. AN ALARM SHALL BE ACTIVATED. Control Valve

S.E.D. Control No. 13-02-00-01-0-006-022 Rev. No.: Date: Description:





Beacon City School District Beacon, New York

Additions and Alterations to: Glenham Elementary School

Schedules, Details and Controls

Drawing Number: Drawn By: JPF1/pgm 10/28/2022 Project No.: BM600 279180-22004