

4 Enlarged Plan - Mech 342
1/4" = 1'-0"

3 Enlarged Plan - Mech 341
1/4" = 1'-0"

1 Partial First Floor Plan - Area B - Cafeteria
1/8" = 1'-0"

5 Partial First Floor Plan - Area B
1/8" = 1'-0"

2 Partial First Floor Demolition Plan - Area B - Cafeteria
1/8" = 1'-0"

General Notes

A. REFER TO AM050 FOR GENERAL NOTES.

Key Plan
N.T.S.

S.E.D. Control No. 62-18-01-06-0-007-019

2	11/16/23	SED ADD NO. 2
Rev. No.:	Date:	Description:



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Walkkill Central School District
Walkkill, New York

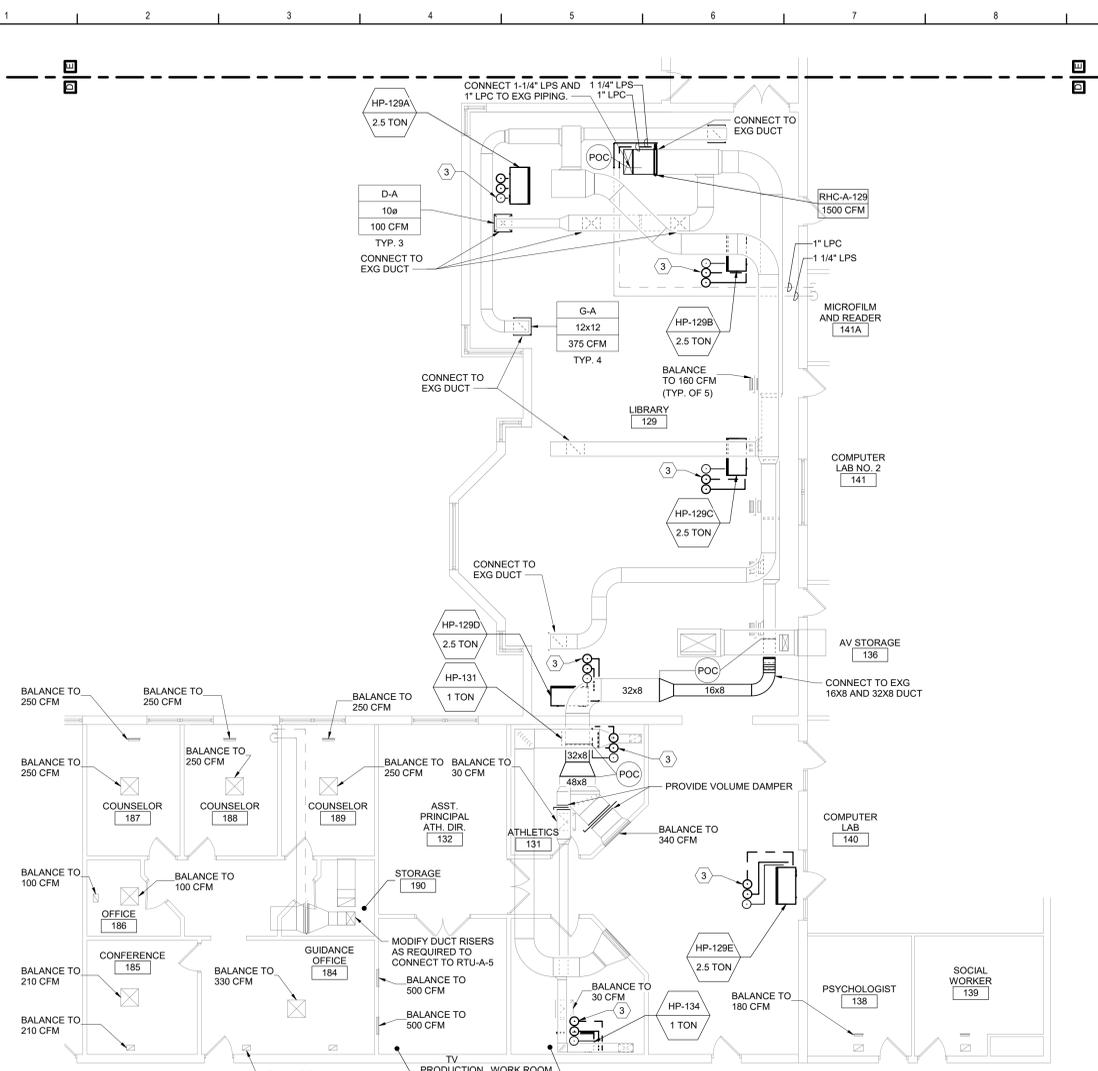
Reconstruction to:
Walkkill Senior High School

First Floor Partial Plans - Areas B & C

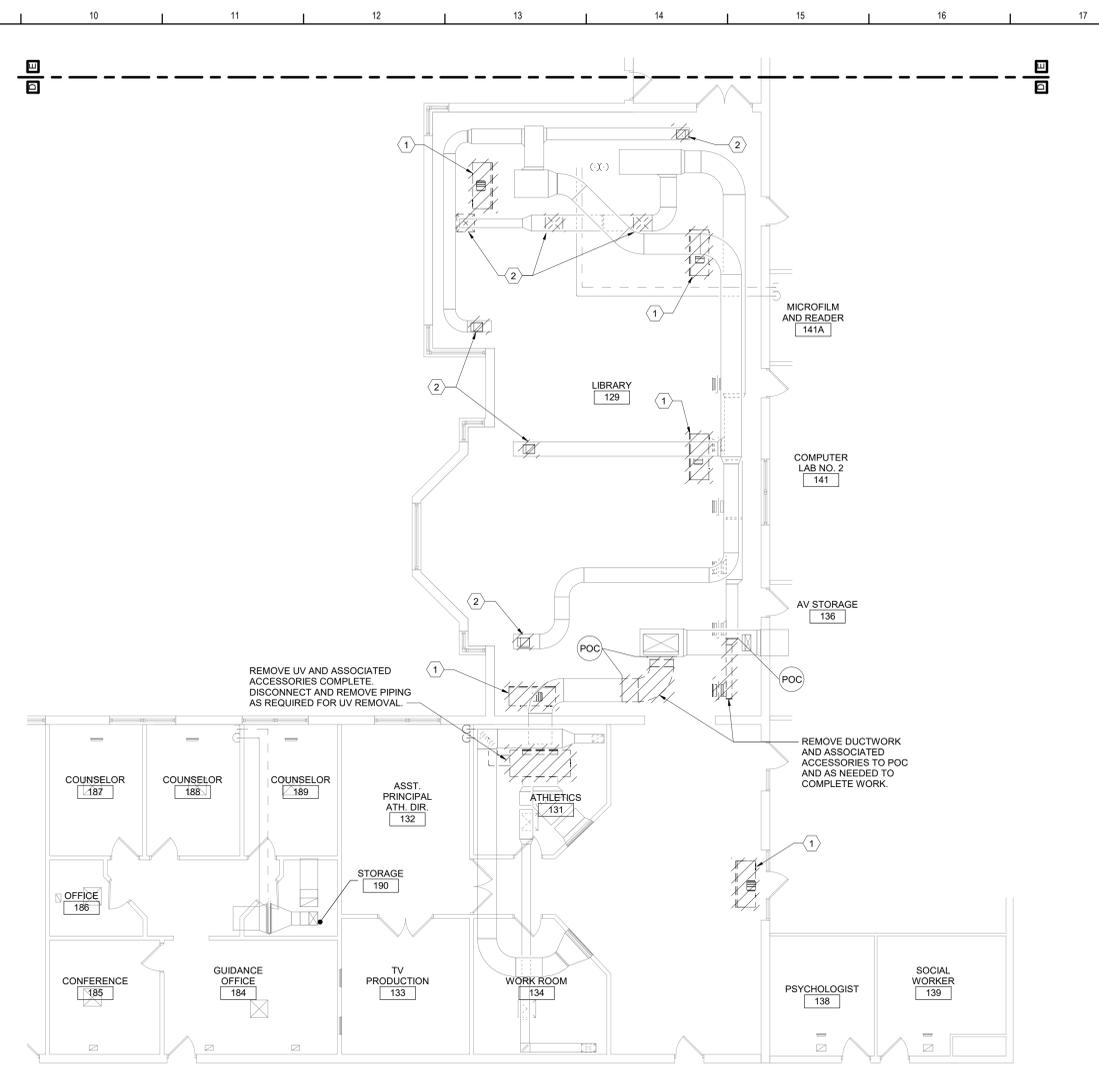
Drawn By: JPF/ijgm	Date: 06/30/2023	Drawing Number:
Project No.:	AM101	
17597-22002		

BID SET

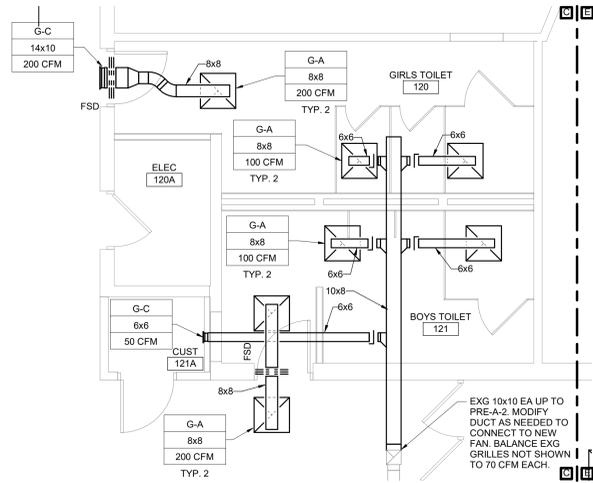
REMOVE PACKAGED DX UV, LOUVER, SLEEVE, AND ASSOCIATED ACCESSORIES COMPLETE. DISCONNECT, EVACUATE AND RECLAIM REFRIGERANT. DISPOSE OF REFRIGERANT IN ACCORDANCE WITH ASHRAE 15. REMOVE AND MODIFY STEAM PIPING AS REQUIRED FOR NEW WORK. REFER TO ARCH DRAWINGS FOR INFILL DETAILS.



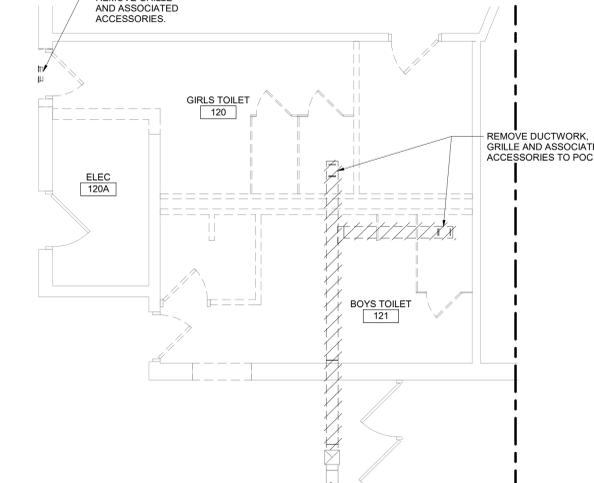
3 Partial First Floor Plan - Area D
1/8" = 1'-0"



1 Partial First Floor Demolition Plan - Area D
1/8" = 1'-0"



4 Partial First Floor Plan - Area B - Toilet Rooms
1/4" = 1'-0"



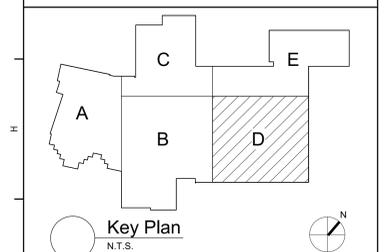
2 Partial First Floor Demolition Plan - Area B - Toilet Rooms
1/4" = 1'-0"

General Notes

A. REFER TO AM050 FOR GENERAL NOTES.

Keyed Notes

- 1 REMOVE AC UNIT AND ASSOCIATED ACCESSORIES COMPLETE. DISCONNECT, EVACUATE AND RECLAIM REFRIGERANT. DISPOSE OF REFRIGERANT IN ACCORDANCE WITH ASHRAE 15. REMOVE IN-LINE FAN ABOVE CEILING AND ASSOCIATED FLEXIBLE DUCTWORK.
- 2 REMOVE CEILING DIFFUSER/GRILLE. DUCT TO REMAIN. PREPARE FOR RECONNECTION.
- 3 RS AND RL UP TO RCJ ON ROOF. VERIFY LINE SIZES WITH UNIT MANUFACTURER. PROVIDE 1" CD UP TO ROOF. SEE DETAIL 11/AM500 FOR ADDITIONAL INFORMATION.



S.E.D. Control No. 62-18-01-06-0-007-019

Rev. No.	Date	Description



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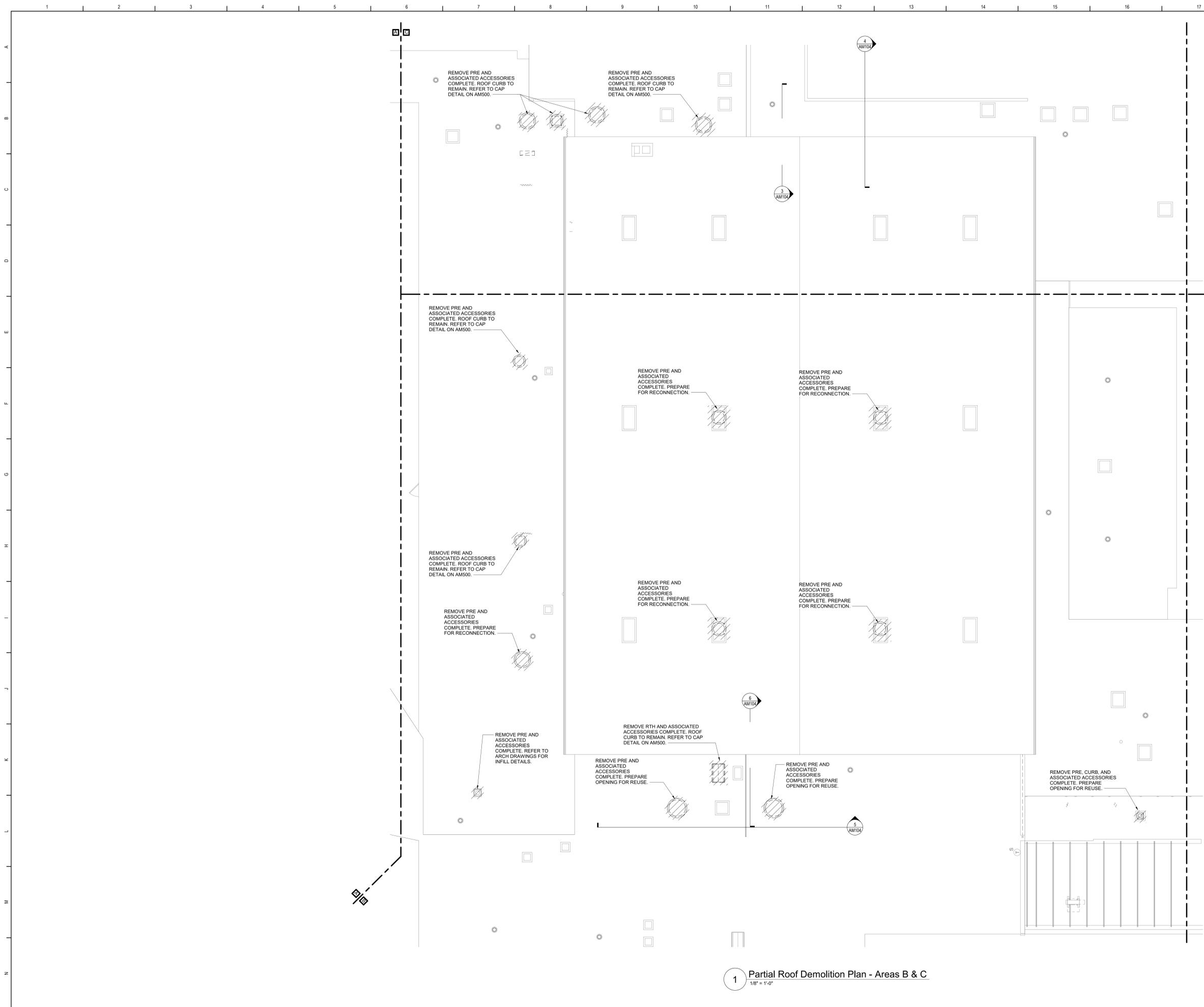
Walkkill Central School District
Walkkill, New York

Reconstruction to:
Walkkill Senior High School

First Floor Plans - Partial Areas B & D

Drawn By: JPF/ijgm	Date: 06/30/2023	Drawing Number:
Project No.:	AM102	

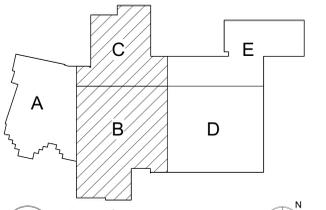
BID SET



1 Partial Roof Demolition Plan - Areas B & C
1/8" = 1'-0"

General Notes

A. REFER TO AM050 FOR GENERAL NOTES.



S.E.D. Control No. 62-18-01-06-0-007-019

Rev. No.	Date	Description



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BID SET

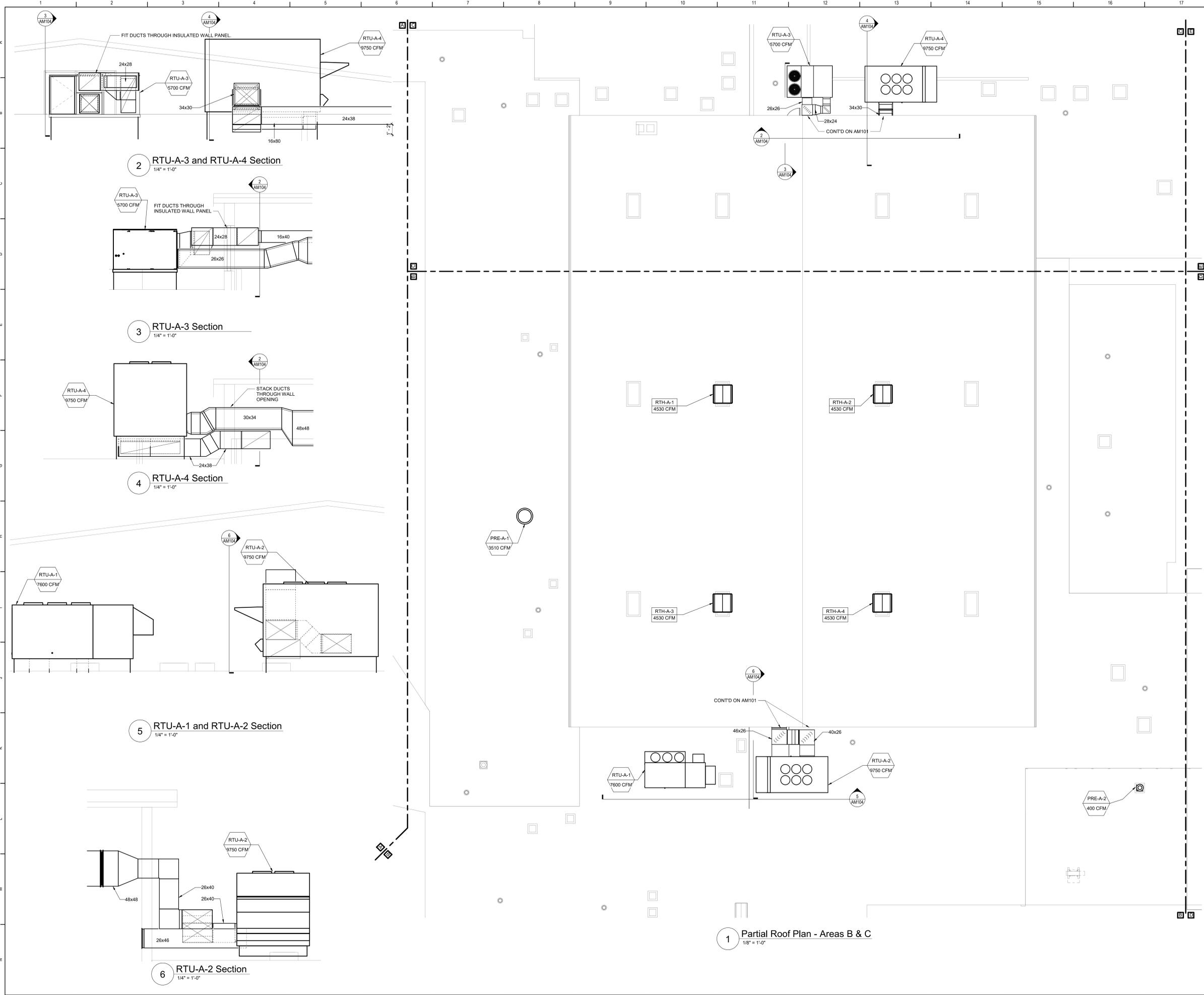


Walkkill Central School District
Walkkill, New York

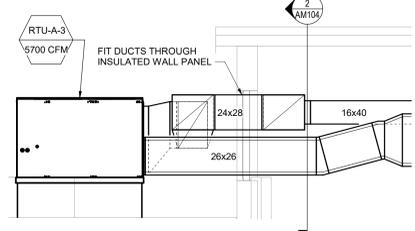
Reconstruction to:
Walkkill Senior High School

Partial Roof Demolition Plan - Areas B & C

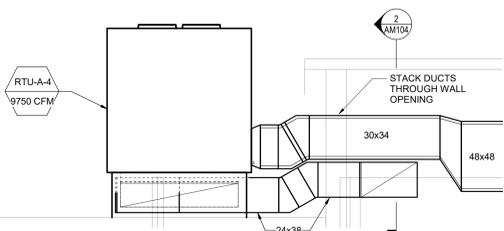
Drawn By: JPF/jpgm	Date: 06/30/2023	Drawing Number:
Project No.:	AM103	
17597-22002		



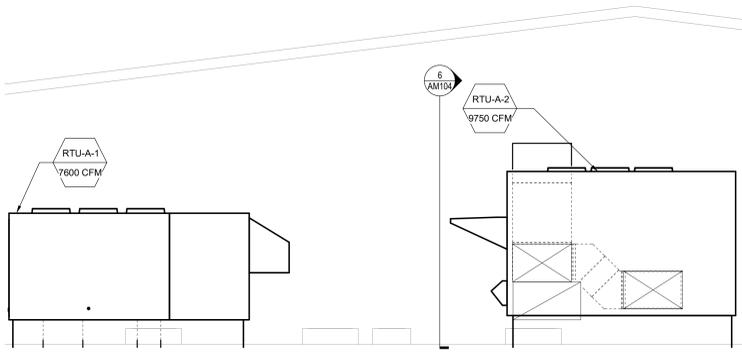
2 RTU-A-3 and RTU-A-4 Section
1/4" = 1'-0"



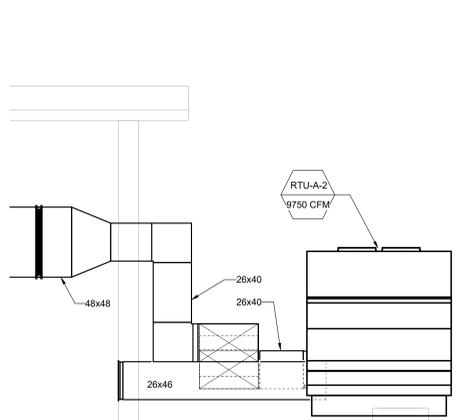
3 RTU-A-3 Section
1/4" = 1'-0"



4 RTU-A-4 Section
1/4" = 1'-0"

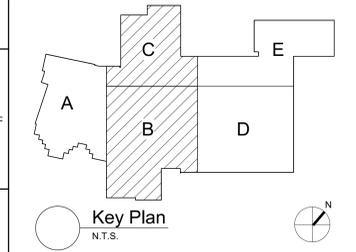


5 RTU-A-1 and RTU-A-2 Section
1/4" = 1'-0"



6 RTU-A-2 Section
1/4" = 1'-0"

General Notes
A. REFER TO AM050 FOR GENERAL NOTES.



S.E.D. Control No. 62-18-01-06-0-007-019

Rev. No.	Date	Description



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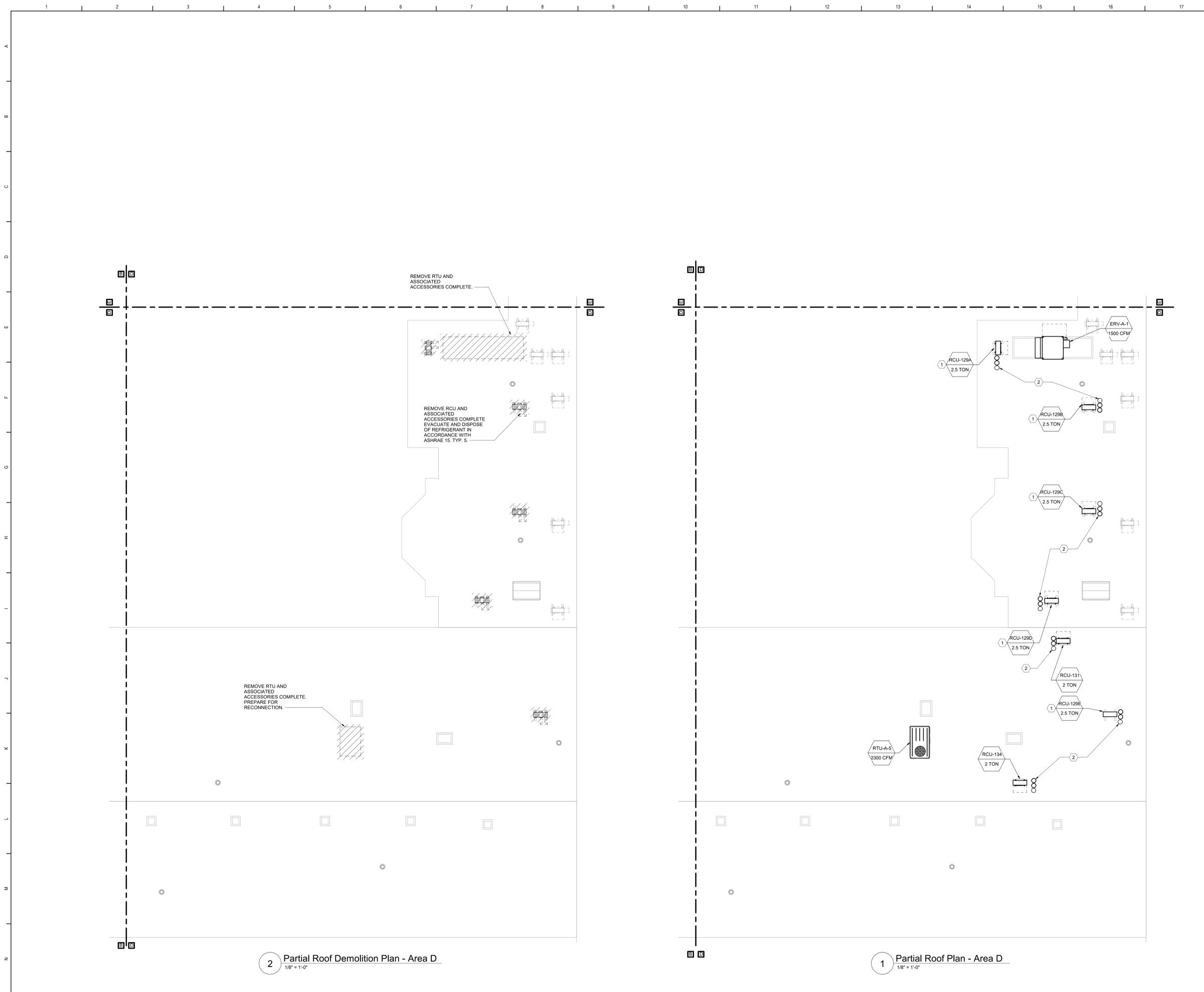
Walkkill Central School District
Walkkill, New York

Reconstruction to:
Walkkill Senior High School

Roof Plan - Areas B & C

Drawn By: JPF/ijgm	Date: 06/30/2023	Drawing Number: AM104
Project No.: 17597-22002		

BID SET

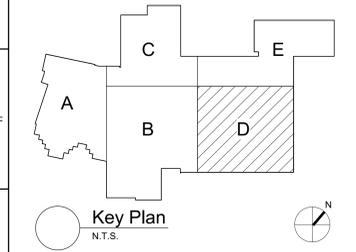


General Notes

A. REFER TO AM050 FOR GENERAL NOTES.

Keyed Notes

- ① INSTALL CONDENSING UNIT ON EXISTING SUPPORTS SYSTEM.
- ② RS/RL UP TO RCU. VERIFY LINE SIZE WITH UNIT MANUFACTURER. 1" CD UP FROM BELOW. SEE DETAIL 11/AM500 FOR ADDITIONAL INFORMATION.



S.E.D. Control No. 62-18-01-06-0-007-019

Rev. No.	Date	Description



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BID SET



Walkkill Central School District
Walkkill, New York

Reconstruction to:
Walkkill Senior High School

Roof Plans - Partial Area D

Drawn By: JPF/jpgm	Date: 06/30/2023	Drawing Number:
Project No.:	AM105	
17597-22002		

FAN (F-, PRE-, PWE-) SCHEDULE

DWG LABEL	SERVES	TYPE	MODEL NO.	FAN DATA						ELECTRICAL					
				CFM	SP (IN WG)	SONE S	RPM	TIP SPEED (FPM)	OPENING (SQ. IN.)	DRIVE	BHP	HP	FLA	V/PH	NOTES
PRE-A-1	LOCKER RMS B41, 151, 153	CENTRIFUGAL DOWNBLAST	210C	3510	0.75	10.9	843	4830	25.5x25.5	DIRECT	0.77	2	0 A	208 V3ø	1-5
PRE-A-2	TOILET RMS	CENTRIFUGAL DOWNBLAST	90ACEM	490	0.35	6.8	1547	3710	13.5x13.5	DIRECT	0.07	1/8	1.9 A	120 V1ø	1,3,4,5,6

NOTES:
1. DESIGN BASIS: LOREN COOK
2. REUSE EXISTING ROOF CURB. PROVIDE CURB ADAPTER.
3. PROVIDE EC MOTOR, STARTED AND NEMA 1 DISCONNECT.
4. PROVIDE MOTORIZED AUTOMATIC AIR DAMPER (AAD) AND ACTUATOR WITHIN CURB.
5. SONES, TIP SPEED AND BHP ARE MAXIMUM ALLOWABLE. CFM, SP AND OPENING ARE MINIMUM ALLOWABLE.
6. PROVIDE 14" ROOF CURB.

BLOWER COIL UNIT (BCU) SCHEDULE

DWG LABEL	UNIT LOCATION	SERVES	DESIGN BASIS: TRANE MODEL	SUPPLY FAN						ELECTRICAL DATA						
				FAN ARR.	MAX SA (CFM)	MIN. SA (CFM)	DISCH. ARR.	ESP (IN WG)	RPM	BHP	HP	V/PH	MCA	MOP	WEIGHT (LBS)	NOTES
BCU-A-1	MECH 342	LOCKER RMS B41, 151, 153	BCE090	DIRECT CENTRIFUGAL	3500	1100	END	1.00	1091	1.9	3.0	208V3	14 A	25 A	300	1-4

NOTES:
1. DESIGN BASIS: TRANE
2. GASKETED ACCESS DOORS AND MODULAR SECTIONS WITH DOUBLE WALLED 1" 1.5 PC INSULATED PANELS.
3. PROVIDE 2" MERV FILTER
4. PROVIDE EC MOTOR WITH DISCONNECT SWITCH.

PACKAGED ROOFTOP UNIT (RTU) SCHEDULE

DWG LABEL	UNIT LOCATION	SERVES	MODEL	SUPPLY FAN						ELECTRICAL DATA						HEATING DATA						COOLING DATA						REFRIGERANT DATA - R410A						
				FAN ARR.	SA (CFM)	EVENT OA (CFM)	CLRM OA (CFM)	DISCH. ARR.	ESP (IN WG)	RPM	BHP	HP	V/PH	MCA	MOP	WEIGHT (LBS)	EAT (°F)	LAT (°F)	MBH	DB (°F)	WB (°F)	COP @47F	NO. ROWS	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	TC (°F)	SC (°F)	APD (IN WG)	AMB (°F)	EER	COMPRESSOR DESCRIPTION	NOTES
RTU-A-1	ROOF - AREA B	CAFETERIA 161 & 162	VXE-212-52C-25A	DIRECT PLENUM	7600	4900	4900	DOWN	0.75	1802	6.1	7.5	208V3	155 A	200 A	5200	59.3	78.0	137.3	40.0	36.2	3.21	6	78.2	68.3	54.1	53.9	347.2	201.5	0.55	90.0	9.7	(1) 1ST INVERTER SCROLL, (1) 14T SCROLL	1-8, 11
RTU-A-2	ROOF - AREA B	MAIN GYM 150	VX-312-201-011	DIRECT PLENUM	9750	3600	1500	SIDE	1.50	1471	3.1	5.0	208V3	161 A	200 A	5200	80.0	84.3	128.2	40.0	36.2	3.34	4	80.6	69.4	56.4	56.3	414.4	255.1	0.24	90.0	10.4	(1) 1ST INVERTER SCROLL, (1) 15T SCROLL	1-6, 9, 11
RTU-A-3	ROOF - AREA C	WRESTLING GYM 150	WH150A3	BC PLENUM	5700	1150	500	SIDE	1.00	1135	1.9	3.1	208V3	72 A	90 A	2200	60.0	64.3	128.2	40.0	36.2	3.34	4	80.6	69.4	56.4	56.3	414.4	255.1	0.24	90.0	10.4	(1) 1ST INVERTER SCROLL, (1) 15T SCROLL	1-6, 10-11, 13
RTU-A-4	ROOF - AREA B	MAIN GYM 150	VX-312-201-011	DIRECT PLENUM	9750	3600	1500	SIDE	1.50	1471	3.1	5.0	208V3	161 A	200 A	5200	80.0	84.3	128.2	40.0	36.2	3.34	4	80.6	69.4	56.4	56.3	414.4	255.1	0.24	90.0	10.4	(1) 1ST INVERTER SCROLL, (1) 15T SCROLL	1-6, 9, 11
RTU-A-5	ROOF - AREA D	GUIDANCE SUITE	WHC074H3	BC PLENUM	2300	360	380	DOWN	1.00	1085	0.8	2.8	208V3	42 A	50 A	1200	61.0	67.7	66.2	40.0	36.2	3.5	3	78.7	64.6	52.7	52.6	75.1	60.8	0.00	95.0	12.1	(2) SCROLL	3-5, 11-14

NOTES:
1. GASKETED ACCESS DOORS AND MODULAR SECTIONS WITH DOUBLE WALLED 2" R-13 GALVANIZED STEEL PANELS WITH THERMAL BREAK.
2. PROVIDE 2" MERV PRE-FILTER AND MERV13 FILTERS BEFORE COILS.
3. PROVIDE 120V/1PH (FLA=8A) GFI SERVICE OUTLET FOR SEPARATE POWER.
4. PROVIDE FACTORY-INSTALLED SUPPLY AND EXHAUST FAN VFDs.
5. PROVIDE NEMA 3R UNIT DISCONNECT SWITCH FOR UNIT.
6. DESIGN BASIS: VALENT
7. FOR RTU-A-1, PROVIDE HIGH EFFICIENCY ENERGY WHEEL:
A. VENTILATION 4900 CFM PD, 1.0 in-wg
a. SUMMER= EDB:88.0°F, EWB:72.6°F, LDB: 79.3°F, LWB: 68.8°F, 72.4% TOTAL EFFECTIVENESS
b. WINTER= EDB:87.0°F, EWB:4.0°F, LDB: 53.5°F, LWB: 38.0°F, 73.6% TOTAL EFFECTIVENESS
8. EXHAUST: 4900 CFM, ENTERING SUMMER: 78.3°F/87.4°F, ENTERING WINTER: 68.8°F/47.0°F, PD: 1.0 in-wg
9. PROVIDE SPRING ISOLATED 40" ROOF CURB.
10. PROVIDE 24" ROOF CURB.
11. PROVIDE ACOUSTICALLY LINED CURB PER DETAIL.
12. PROVIDE CURB ADAPTER.
13. DESIGN BASIS: TRANE, WITH INSULATED SINGLE-WALL PANELS.
14. PROVIDE 2" MERV13 COILS, LOW LEAK OA DAMPER, ECONOMIZER HOOD AND 0.65WV EXHAUST FAN.

ROOFTOP HOOD (RTH) SCHEDULE

DWG LABEL	SERVES	MODEL NO.	TYPE	CFM	VENT SIZE (IN x IN)	HOOD SIZE (IN x IN)	HOOD HEIGHT (IN)	FREE AREA (S.F.)	VELOCITY (FPM)	SP (IN WG)	HOOD FINISH	NOTES
RTH-A-1	MAIN GYM 150	28x28GR	RELIEF	5430	28x28	52x51	18.75	5.44	1000	0.10	KYNAR	1-3
RTH-A-2	MAIN GYM 150	28x28GR	RELIEF	5430	28x28	52x51	18.75	5.44	1000	0.10	KYNAR	1-3
RTH-A-3	MAIN GYM 150	28x28GR	RELIEF	5430	28x28	52x51	18.75	5.44	1000	0.10	KYNAR	1-3
RTH-A-4	MAIN GYM 150	28x28GR	RELIEF	5430	28x28	52x51	18.75	5.44	1000	0.10	KYNAR	1-3

NOTES:
1. DESIGN BASIS: LOREN COOK
2. REUSE EXISTING (30x30, VJB) CURB. PROVIDE CURB ADAPTER.
3. PROVIDE MOTORIZED AUTOMATIC AIR DAMPER (AAD) AND ACTUATOR WITHIN CURB ADAPTER.

HEAT PUMP (HP) SCHEDULE

DWG LABEL	LOCATION	DESIGN MAKE: MITSUBISHI MODEL	UNIT TYPE	NOMINAL CAPACITY (MBH)		SUPPLY FAN CAPACITY (CFM)	SUPPLY AIRFLOW	FAN SPEED	SOUND PRESS. (dBA)	PIPE SIZE	V/PH	NOTES	
				COOLING	HEATING								
HP-129A	LIBRARY 129	TPCA0A0301KA70A	CEILING SUSPENDED	30	32	565-600-635-705	600	MED	35-37-39-41	5/8"	3/8"	208 V1ø	1-4
HP-129B	LIBRARY 129	TPCA0A0301KA70A	CEILING SUSPENDED	30	32	565-600-635-705	600	MED	35-37-39-41	5/8"	3/8"	208 V1ø	1-4
HP-129C	LIBRARY 129	TPCA0A0301KA70A	CEILING SUSPENDED	30	32	565-600-635-705	600	MED	35-37-39-41	5/8"	3/8"	208 V1ø	1-4
HP-129D	LIBRARY 129	TPCA0A0301KA70A	CEILING SUSPENDED	30	32	565-600-635-705	600	MED	35-37-39-41	5/8"	3/8"	208 V1ø	1-4
HP-129E	LIBRARY 129	TPCA0A0301KA70A	CEILING SUSPENDED	30	32	565-600-635-705	600	MED	35-37-39-41	5/8"	3/8"	208 V1ø	1-4
HP-131	ATHLETICS 131	TPCA0A0241KA70A	CEILING SUSPENDED	24	26	530-565-600-670	530	LOW	33-35-37-40	5/8"	3/8"	208 V1ø	1-4
HP-134	WORK ROOM 134	TPCA0A0241KA70A	CEILING SUSPENDED	24	26	530-565-600-670	530	LOW	33-35-37-40	5/8"	3/8"	208 V1ø	1-4

NOTES:
1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 85/75°F (DB/WB).
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70/60°F (DB/WB), OUTDOOR OF 17/15°F (DB/WB).
3. PROVIDE INTEGRAL CONDENSATE PUMP.
4. POWER TO HEAT PUMP FED FROM RCU. PROVIDE TOGGLE DISCONNECT.

REMOTE CONDENSING UNIT (RCU) SCHEDULE

DWG LABEL	LOCATION	DESIGN MAKE: MITSUBISHI MODEL	NOMINAL CAPACITY		COP @ 47F	V/PH	MOP	MCA	NOTES	
			COOLING (BTU/h)	HEATING (BTU/h)						
RCU-129A	ROOF - AREA D	TRUZH0301HA10NA	30000	9.4	32000	3.72	208 V1ø	40 A	24 A	1-3,5
RCU-129B	ROOF - AREA D	TRUZH0301HA10NA	30000	9.4	32000	3.72	208 V1ø	40 A	24 A	1-3,5
RCU-129C	ROOF - AREA D	TRUZH0301HA10NA	30000	9.4	32000	3.72	208 V1ø	40 A	24 A	1-3,5
RCU-129D	ROOF - AREA D	TRUZH0301HA10NA	30000	9.4	32000	3.72	208 V1ø	40 A	24 A	1-3,5
RCU-129E	ROOF - AREA D	TRUZH0301HA10NA	30000	9.4	32000	3.72	208 V1ø	40 A	24 A	1-3,5
RCU-131	ROOF - AREA D	TRUZH0241HA10NA	24000	12.5	26000	3.71	208 V1ø	28 A	11 A	1-2,4,5
RCU-134	ROOF - AREA D	TRUZH0241HA10NA	24000	12.5	26000	3.71	208 V1ø	28 A	11 A	1-2,4,5

NOTES:
1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 85/75°F (DB/WB).
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70/60°F (DB/WB), OUTDOOR OF 17/15°F (DB/WB).
3. REUSE EXISTING ROOF CURBS. PROVIDE INTERMEDIATE SUPPORTS AS REQUIRED.
4. PROVIDE STRUT SUPPORT SYSTEM (DESIGN BASIS: QUICK SLING).
5. PROVIDE NEMA 3R DISCONNECT.

ENERGY RECOVERY UNIT (ERV) SCHEDULE

DWG LABEL	LOCATION	SERVES	DESIGN BASIS: RENEW AIRE MODEL	SUPPLY		EXHAUST		SUPPLY/OUTSIDE AIR DATA				EXHAUST/RETURN AIR DATA				ENTHALPY EFFECTIVENESS		ELECTRICAL DATA												
				AIRFLOW	ESP (° WC)	AIRFLOW	ESP (° WC)	EAT DB	EAT WB	LAT DB	LAT WB	EAT DB	EAT WB	LAT DB	LAT WB	SUMMER	WINTER	MOTOR QTY	BHP	MOTOR SIZE	MOP	MCA	VOLT	PH	WEIGHT (LBS)	NOTES				
ERV-A-1	ROOF - AREA D	LIBRARY 129	HEX3RTRV	1500	1.00	1500	1.00	88.0	72.6	0.0	0.0	8.7	4.0	0.0	0.0	78.3	67.4	69.8	47.0	59.1 %	74.8 %	2	1.21, 1.41	2 hp	20 A	16 A	208 V	3	970	1-5

NOTES:
1. PROVIDE DOUBLE WALL CONSTRUCTION, HINGED ACCESS DOORS, LOW LEAK OUTSIDE AND EXHAUST AIR DAMPERS, 2" MERV8.
2. PROVIDE STARTER AND INTEGRAL NEMA 3 NON-FUSED DISCONNECT SWITCH. PROVIDE SINGLE POINT CONNECTION.
3. PROVIDE ONBOARD VFDs AND TEFC MOTORS.
4. PROVIDE CONTROL TRANSFORMER.
5. PROVIDE 24" ROOF CURB.

REHEAT COIL (RHC) SCHEDULE

DWG LABEL	SERVES	LOCATION	EQUIP SERVED	DESIGN MAKE- PRECISION COILS MODEL	DUCT SIZE (IN x IN)	FACE AREA (SF)	FACE VELOCITY (FPM)	TUBE WALL THICKNESS (IN)	AIRSIDE DATA						STEAM INLET PRESS. (PSI)	COND. FLOW RATE (LB/HR)	NOTES
									NO. ROWS	AIRFLOW (CFM)	APD (IN. WC)	EAT (°F)	LAT (°F)	HEAT CAP. (MBH)			
RHC-A-129	LIBRARY 129	LIBRARY 129	ERV-A-1	DSWB	34x12	2.83	529	0.020	1	1500	0.11	50.0	86.5	59.4	3.0	61.5	1
RHC-A-161	TEAM ROOM B41	STORAGE 150A	BCU-A-1	DSWB	24x12	2.00	600	0.020	1	1200	0.10	65.0	89.4	31.8	3.0	32.9	1
RHC-A-151	BOYS LOCKER 151	STORAGE 150A	BCU-A-1	DSWB	24x12	2.00	575	0.020	1	1150	0.10	65.0	89.9	31.1	3.0	32.2	1
RHC-A-153	GIRLS LOCKER 153	STORAGE 150A	BCU-A-1	DSWB	24x12	2.00	575	0.020	1	1150	0.10	65.0	89.9	31.1	3.0	32.2	1
RHC-A-3	WRESTLING GYM 150	MEZZANINE ABOVE 150	RTU-A-3	DSWB	36x36	9.00	633	0.020	1	5700	0.12	53.6	85.0	215.4	3.0	223.4	1
RHC-A-2	MAIN GYM 150	MEZZANINE ABOVE 150	RTU-A-2	DSWB	48x48	16.00	609	0.020	1	9750	0.17	44.2	85.0	431.4	3.0	446.9	1
RHC-A-160	CAFETERIA 160	CORRIDOR 109	RTU-A-1	DSWB	48x18	6.00	600	0.020	1	3600	0.11	57.5	85.0	107.4	3.0	111.3	1
RHC-A-161	CAFETERIA 160, 161	CAFETERIA 160	RTU-A-1	DSWB	48x18	6.00	667	0.020	1	4000	0.15	57.5	85.0	119.3	3.0	123.6	1
RHC-A-4	MAIN GYM 150	MEZZANINE ABOVE 150	RTU-A-4	DSWB	48x48	16.00	609	0.020	1	9750	0.17	44.2	85.0	431.4	3.0	446.9	1

NOTES:
1. COILS SHALL HAVE SAME SIDE CONNECTIONS.

HIGH SCHOOL BUILDING/EQUIPMENT VENTILATION CALCULATIONS

EQUIPMENT NUMBER	ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	MINIMUM VENTILATION RATES											
				Az - AREA (SF)	Pz - ZONE OCCU. #/1000 FT	ZONE OCCU.	Rp (CFM/Person)	RpP	Ra (CFM/SF)	RaA	Vbz (CFM)	Ez	Voz (CFM)		
RTU-A-2,4	150	MAIN GYM PLAYING AREA	Gym, sports arena (play area)	6900	7	49	20	980	0.18	1242	2222	0.8	2780		
	150	MAIN GYM BLEACHERS	Spectator areas	2952	150	443	7.5	3323	0.06	177	3500	0.8	4375		
RTU-A-3	150	AUX GYM PLAYING AREA	Gym, sports arena (play area)	2677	7	19	20	380	0.18	482	862	0.8	1075		
ERV-A-1	131	ATHLETICS	OFFICE SPACE	206	5	2	5	10	0.06	12	22	0.8	30		
	134	WORK ROOM	OFFICE SPACE	215	5	2	5	10	0.06	13	23	0.8	30		
	147	LIBRARY	Media center	3110	25	78	10	780	0.12	373	1153	0.8	1440		

NOTES:
Rp = PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW, Ez = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW

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