

General Notes

A. REFER TO AM050 FOR GENERAL NOTES.

Key Plan

N.T.S.

North Arrow

N

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

Rev. No.	Date	Description

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CLEAR SOLUTIONS

Tetra Tech Engineers, Architects & Landscape Architects, P.C.

TETRA TECH

ARCHITECTS & ENGINEERS

Walkkill Central School District

Walkkill, New York

Reconstruction to:

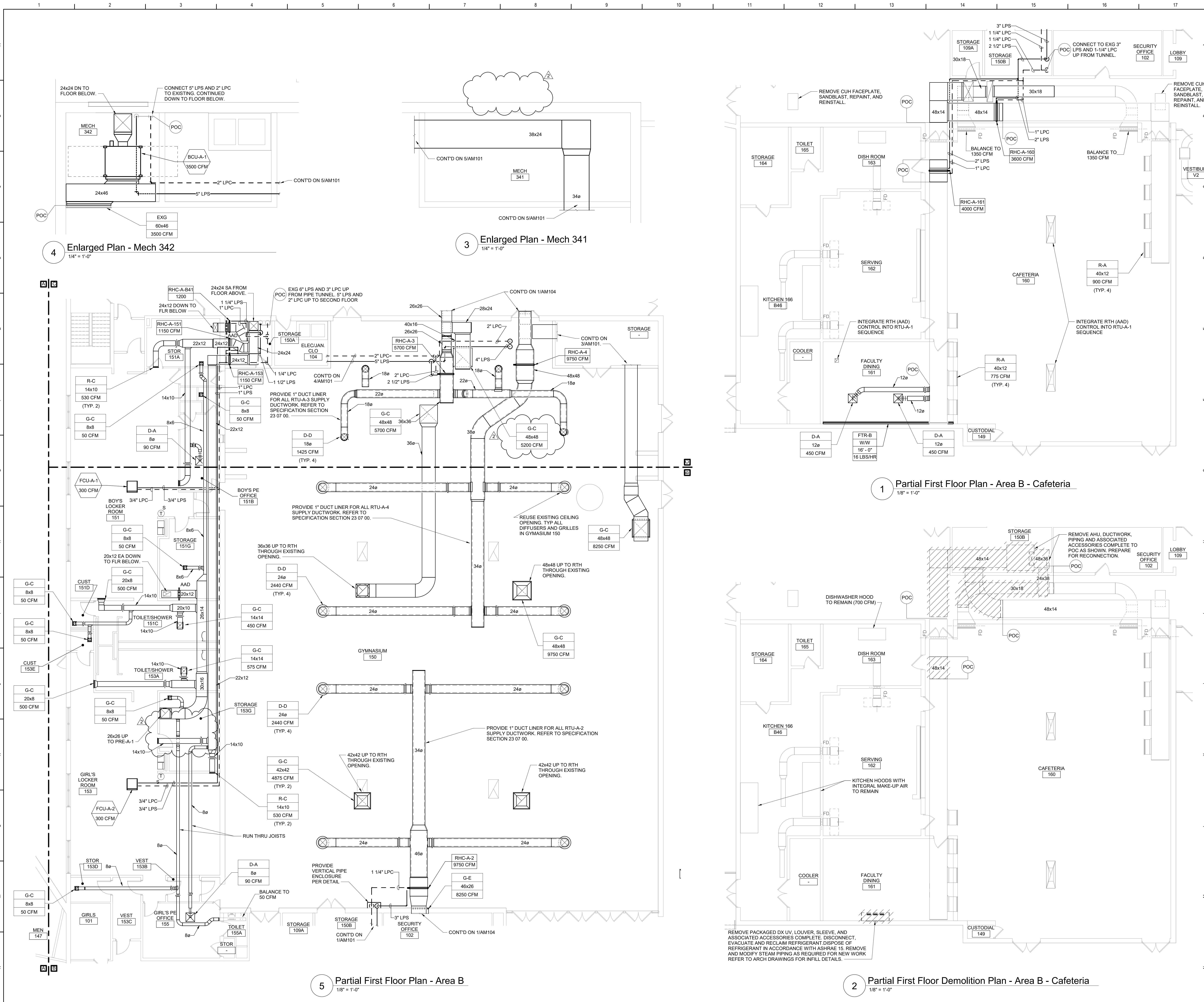
Walkkill Senior High School

Basement and First Floor Partial Plans - Area B & C

Drawn By: JPF/ljgm

Date: 06/30/2023

Drawing Number: AM100



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

21/16/23 SED ADD NO. 2

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

WALLKILL

CENTRAL SCHOOL DISTRICT

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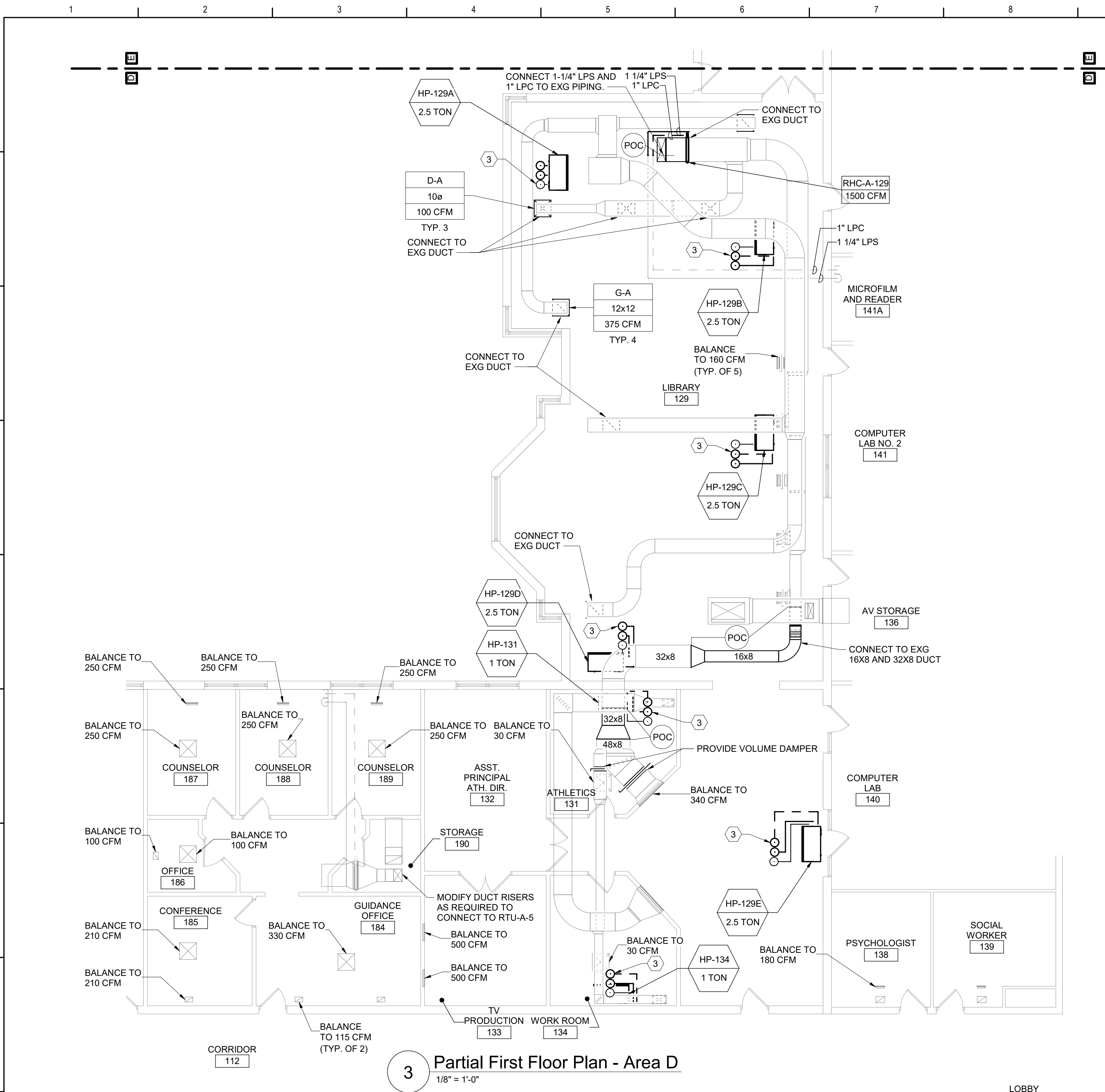
Wallkill Central School District  
Wallkill, New York

Reconstruction to:  
Wallkill Senior High School

First Floor Partial Plans - Areas B & C

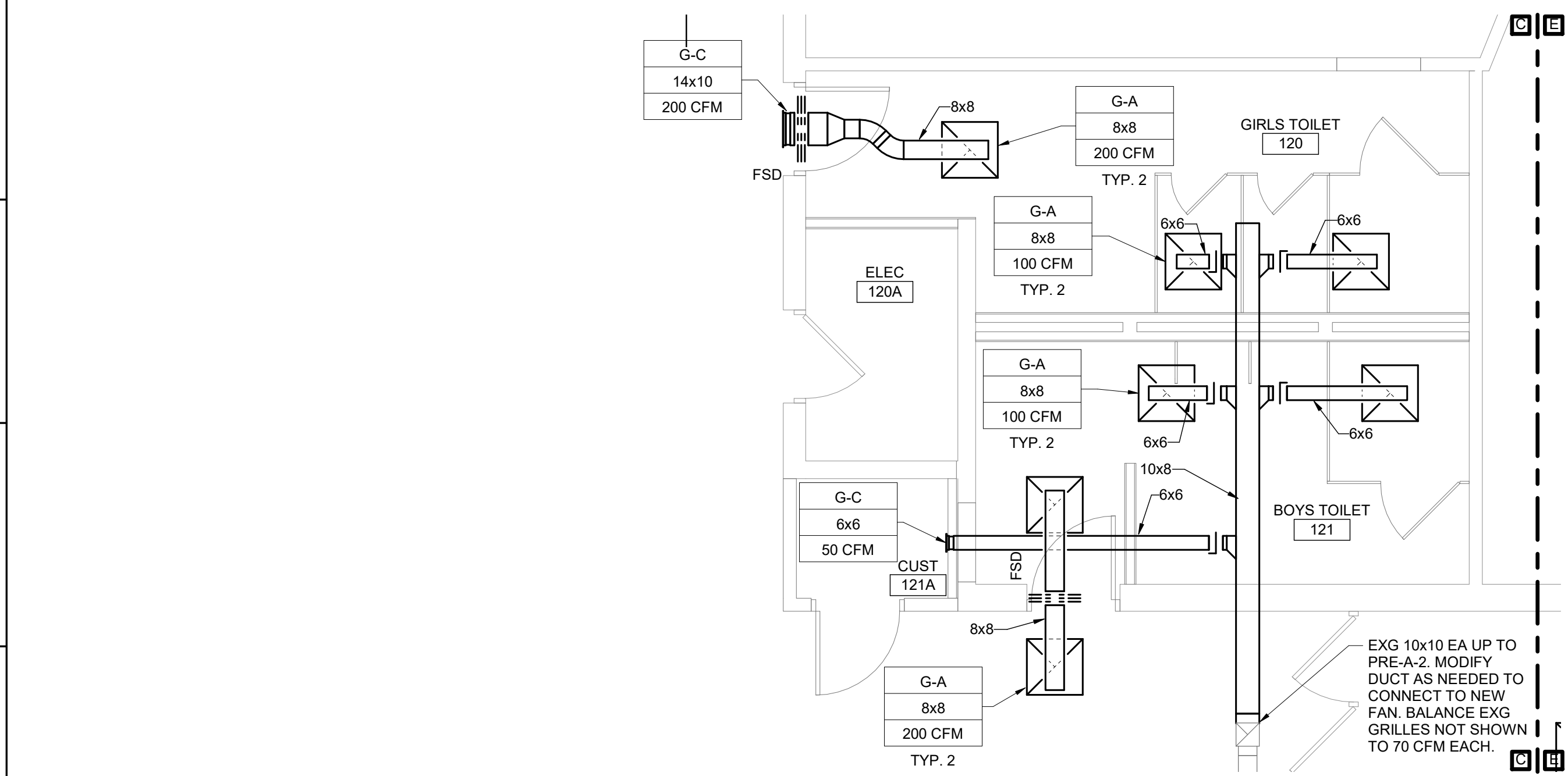
Drawn By: JPF/1/pgm Date: 06/30/2023 Drawing Number: 17597-22002

AM101

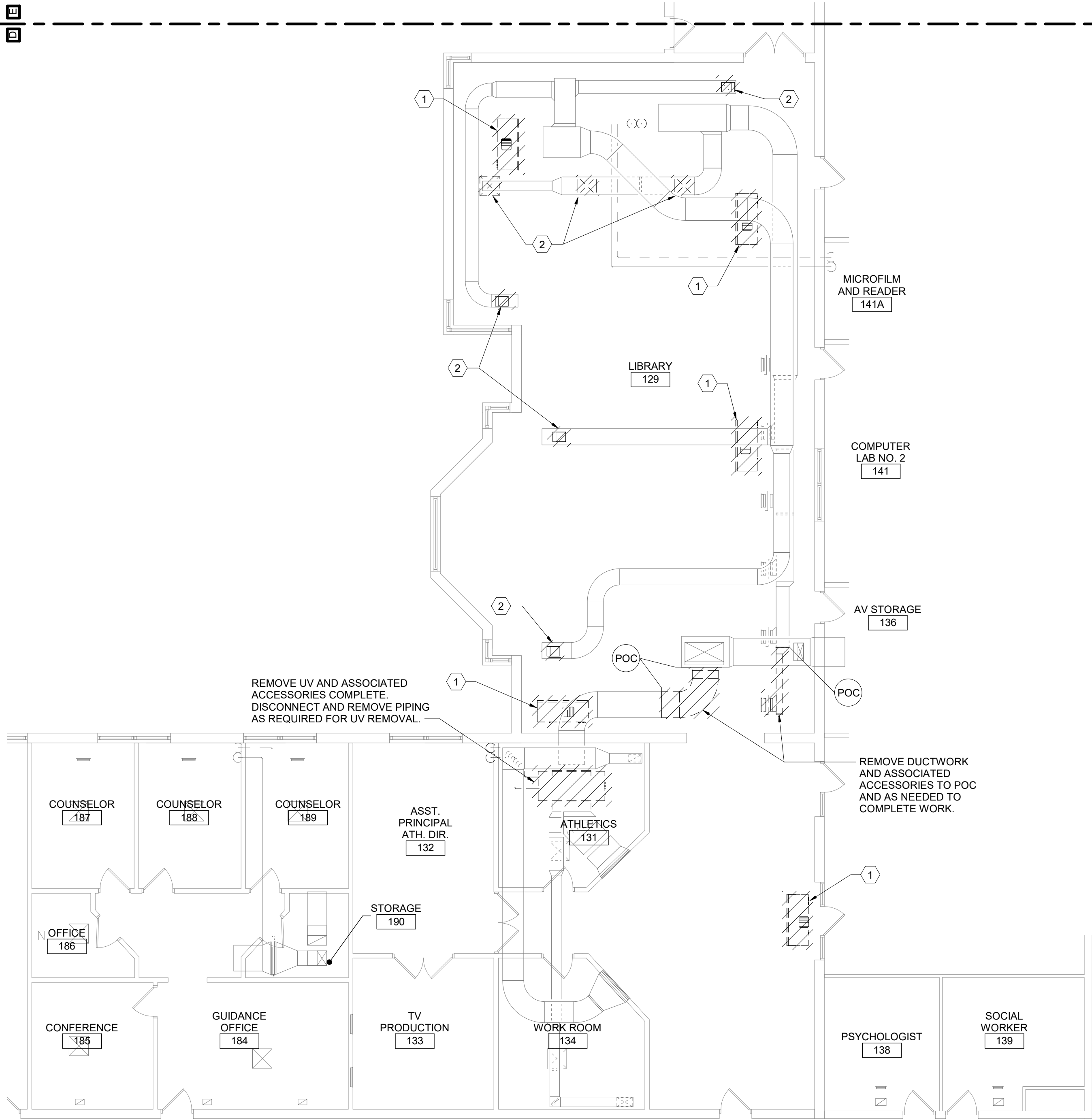


3 Partial First Floor Plan - Area D  
1/8" = 1'-0"

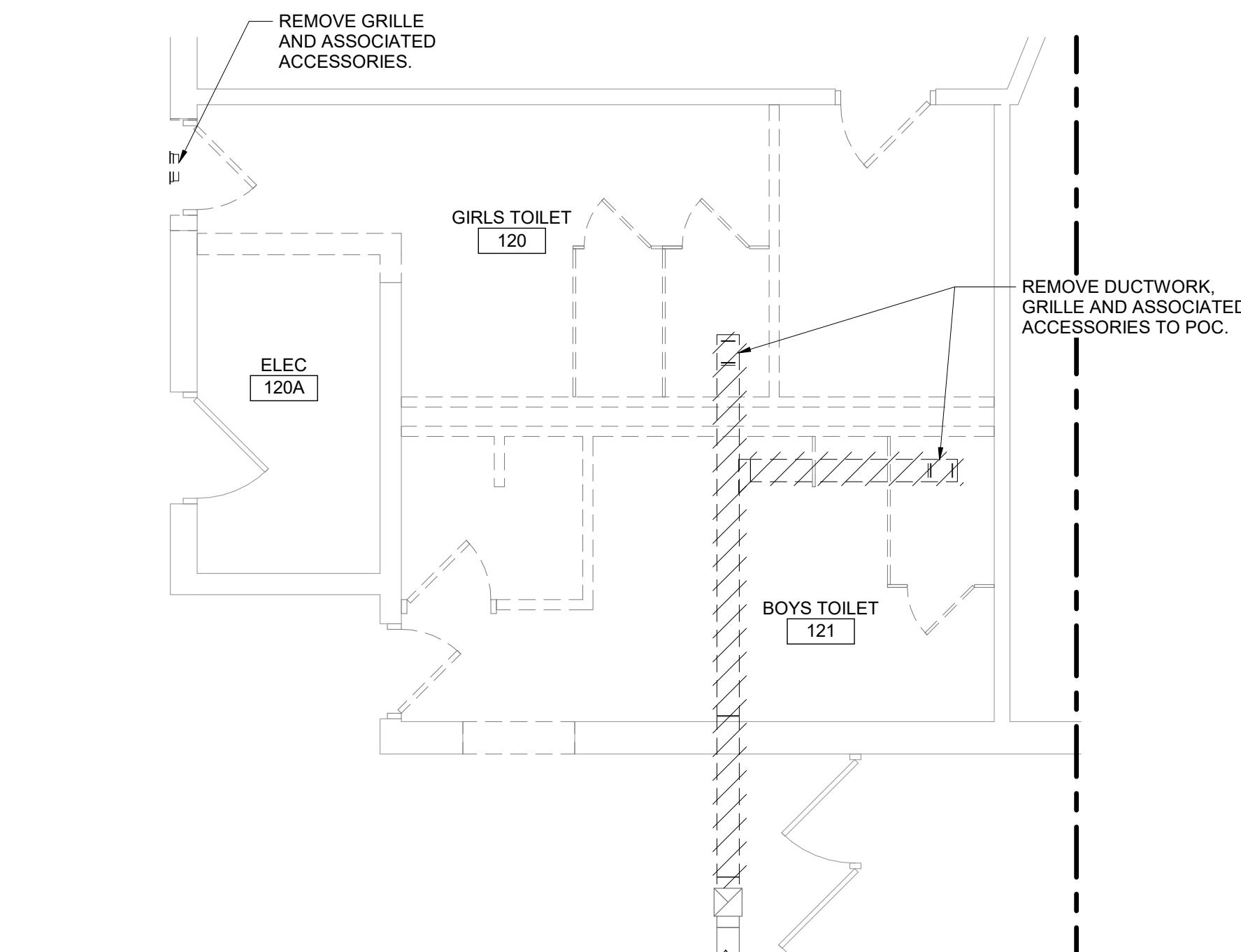
LOBBY  
126



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



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



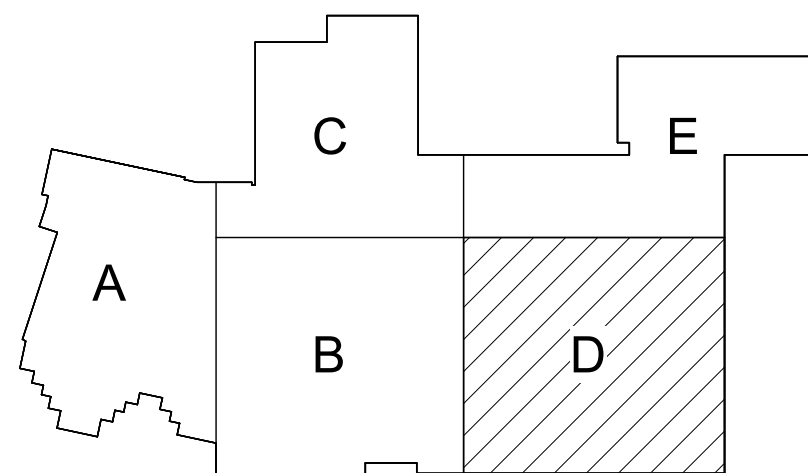
2 Partial First Floor Demolition Plan - Area B - Toilet Rooms  
1/4" = 1'-0"

## General Notes

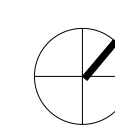
A. REFER TO AM050 FOR GENERAL NOTES.

## Keyed Notes

- 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.
- REMOVE CEILING DIFFUSER/GRILLE. DUCT TO REMAIN. PREPARE FOR RECONNECTION.
- RS AND RL UP TO RCU ON ROOF. VERIFY LINE SIZES WITH UNIT MANUFACTURER. PROVIDE 1" CD UP TO ROOF. SEE DETAIL 11/AM500 FOR ADDITIONAL INFORMATION.

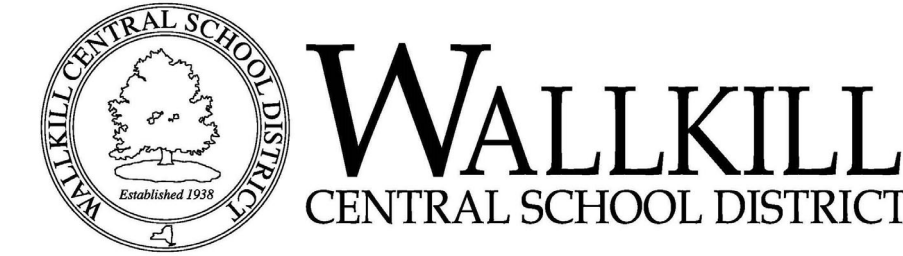


Key Plan  
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S.E.D. Control No. 62-18-01-06-0-007-019

Rev. No.: Date: Description:



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Wallkill Central School District  
Wallkill, New York

Reconstruction to:  
Wallkill Senior High School

First Floor Plans - Partial Areas B & D

Drawn By:  
JPF1/pgm

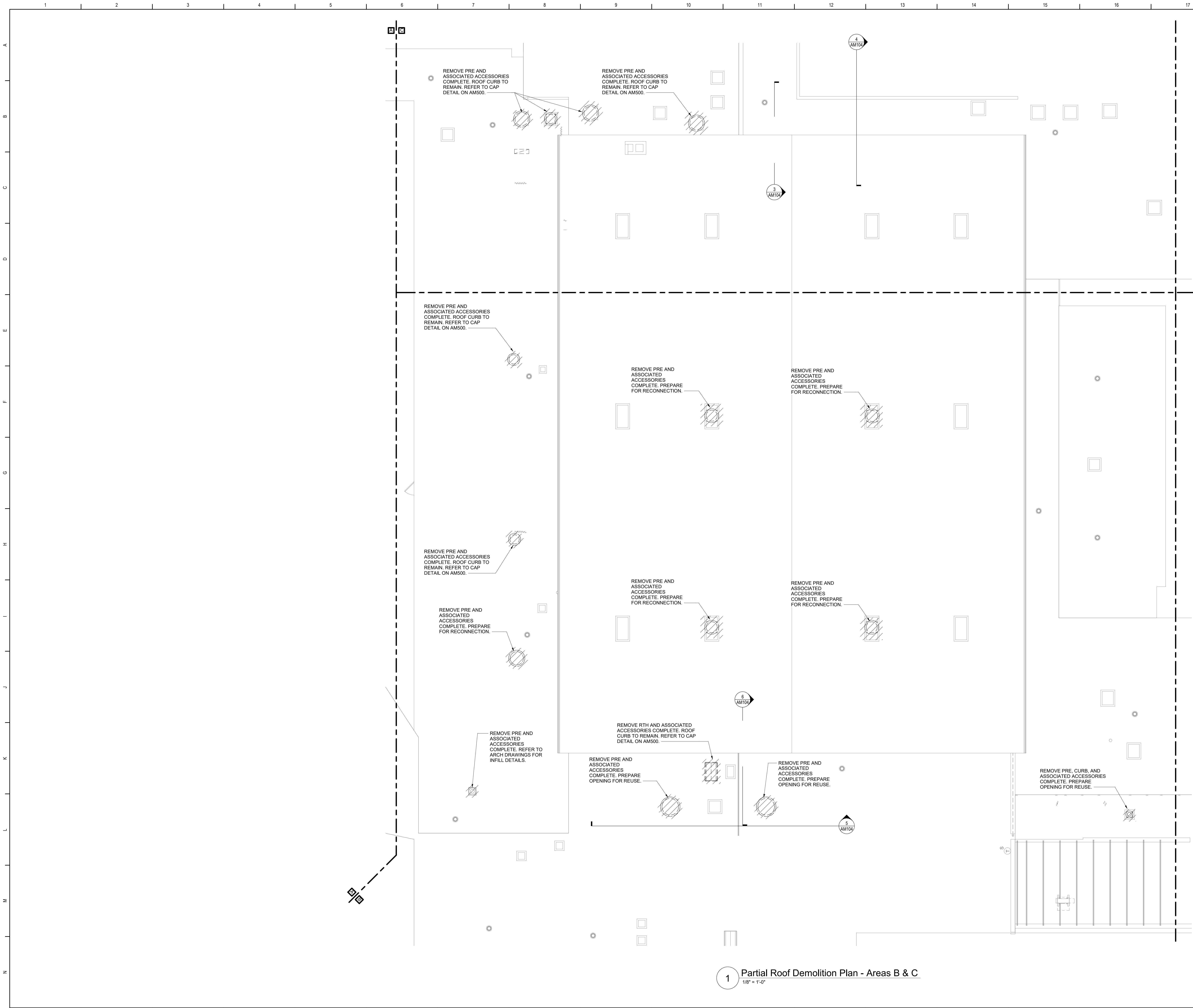
Date:  
06/30/2023

Project No.:  
17597-22002

Drawing Number:

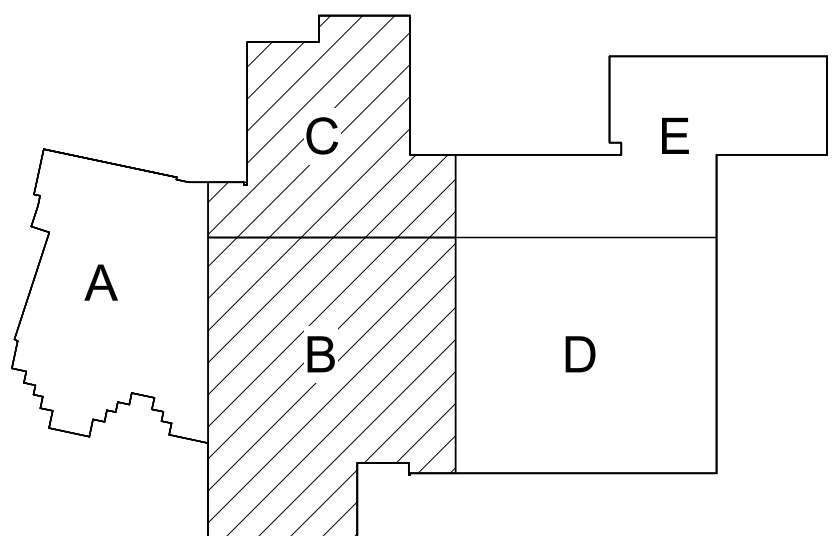
AM102

BID SET



**General Notes**

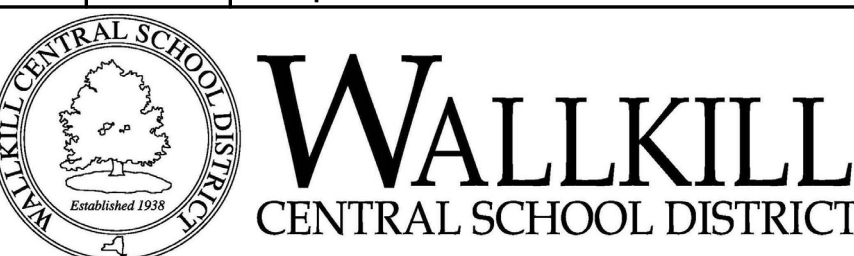
A. REFER TO AM050 FOR GENERAL NOTES.



Key Plan  
N.T.S.

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

Rev. No.: Date: Description:



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Wallkill Central School District  
Wallkill, New York

Reconstruction to:  
Wallkill Senior High School

Partial Roof Demolition Plan - Areas B  
& C

Drawn By:  
JPF-1/pgm

Date:  
06/30/2023

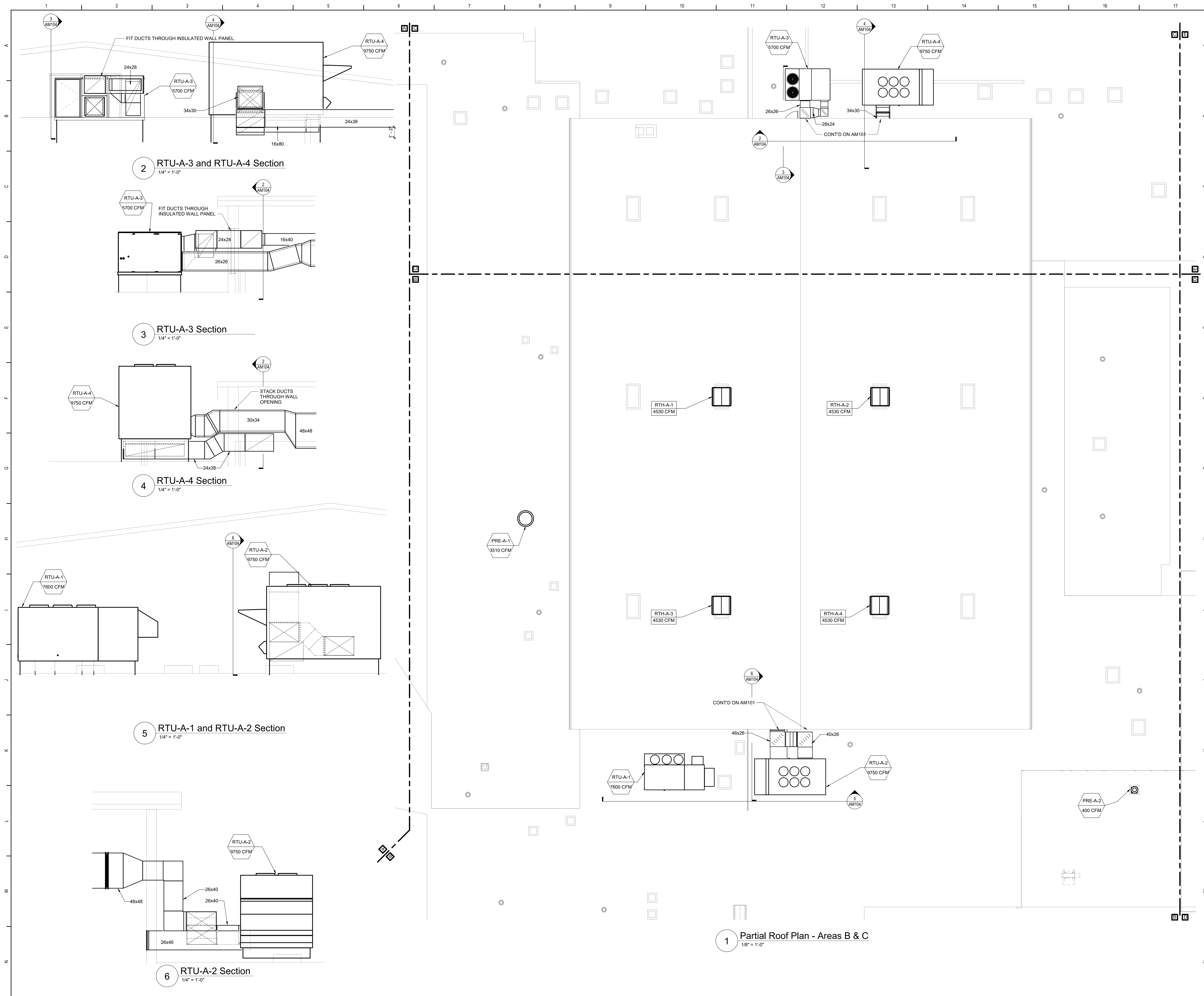
Drawing Number:

Project No.:  
17597-22002

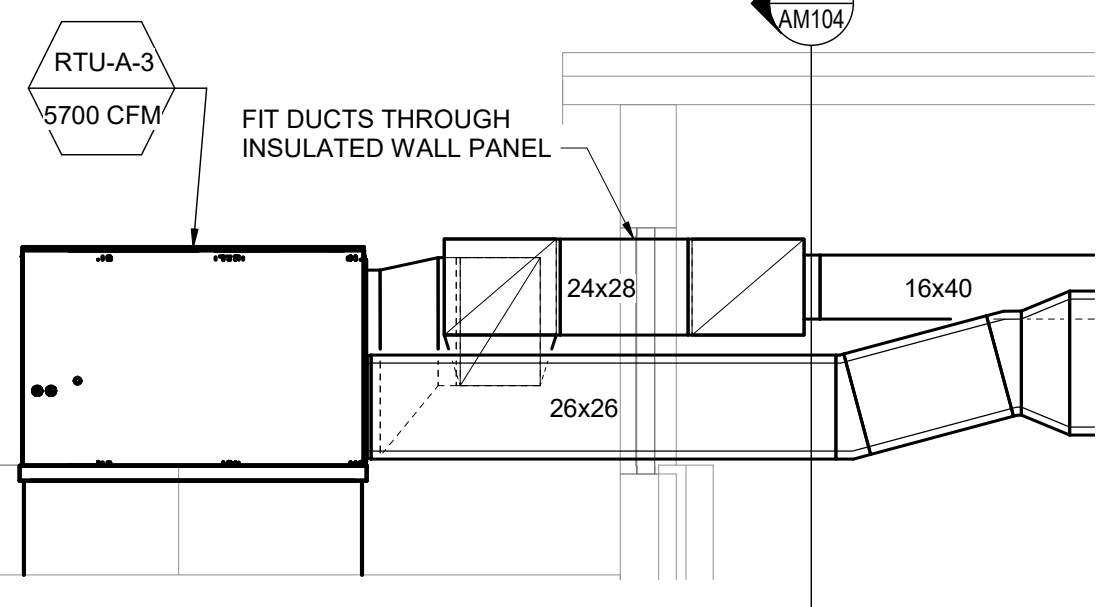
AM103

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

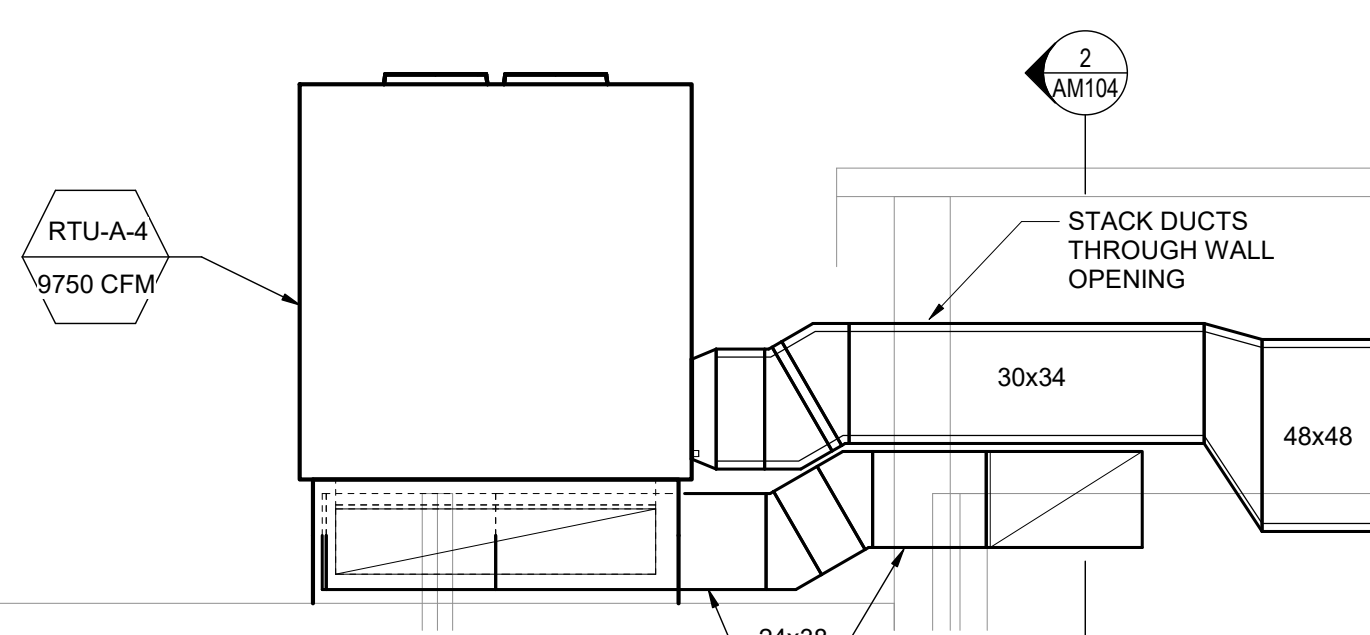




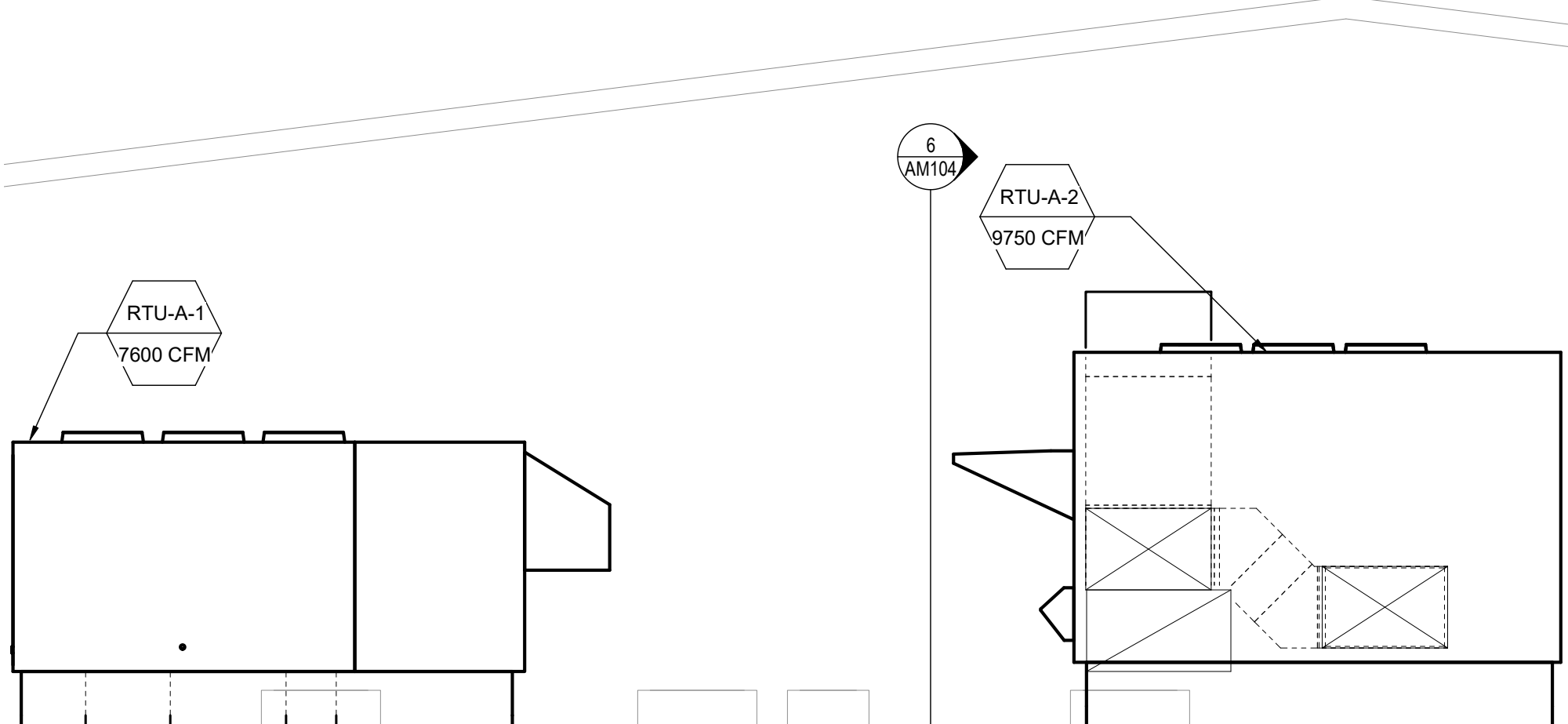
2 RTU-A-3 and RTU-A-4 Section  
1/4" = 1'-0"



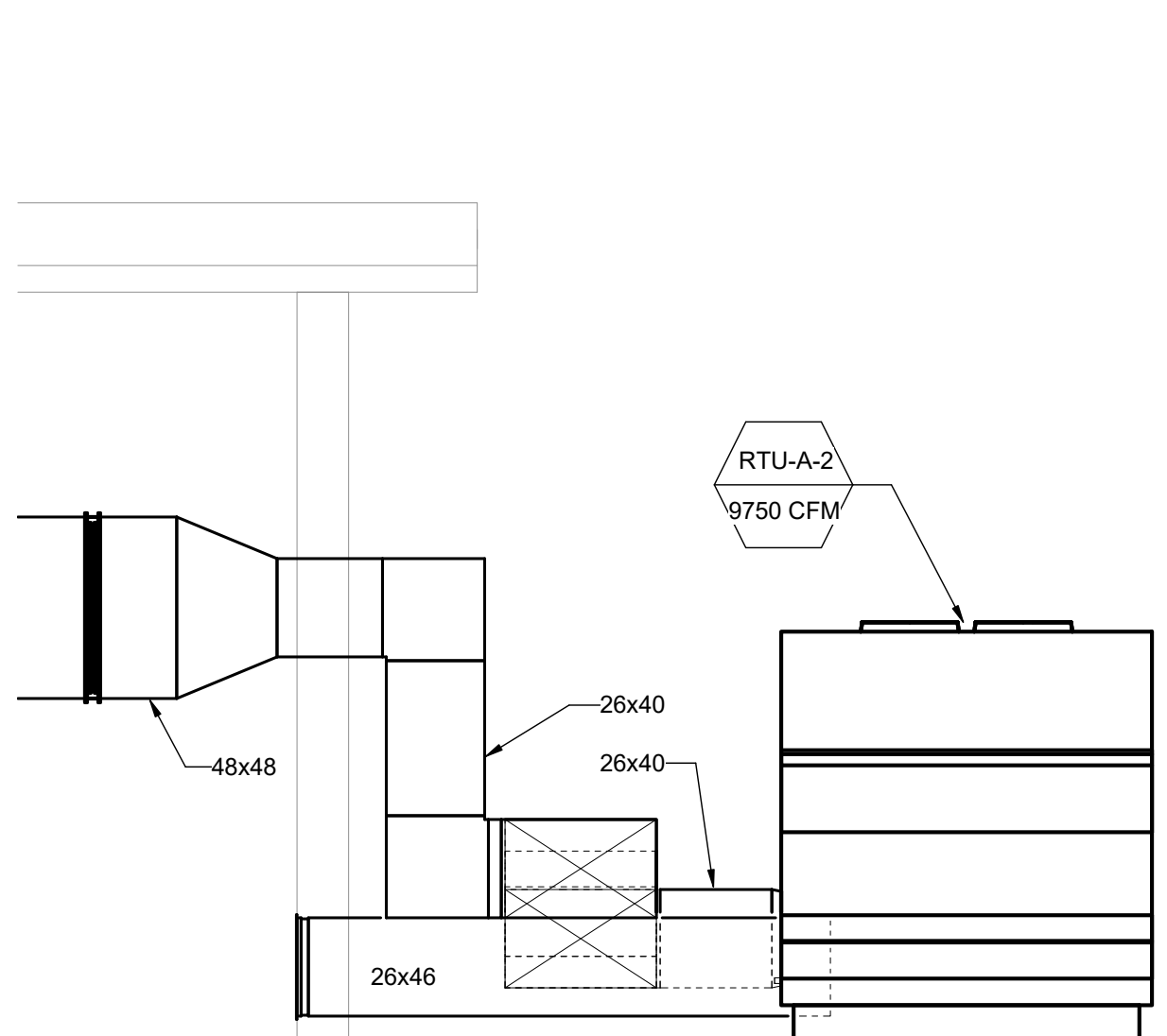
3 RTU-A-3 Section  
1/4" = 1'-0"



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



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

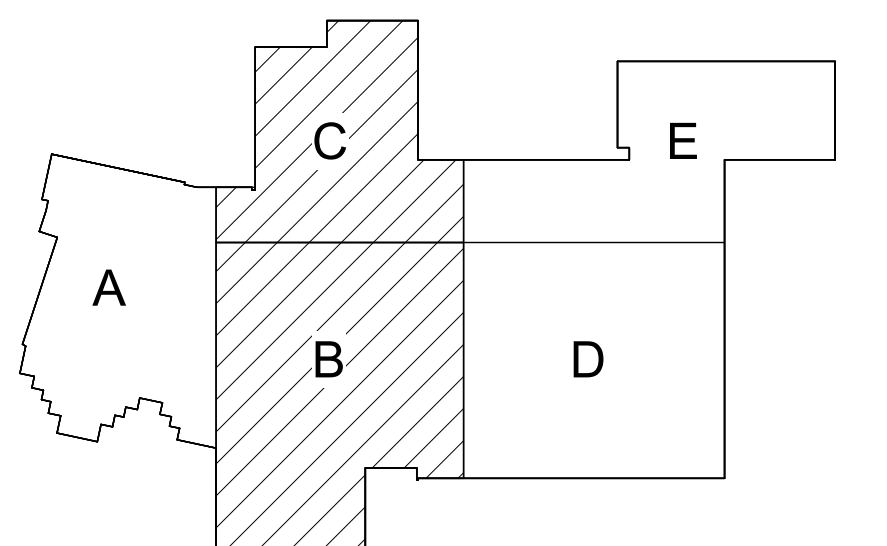


6 RTU-A-2 Section  
1/4" = 1'-0"

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

General Notes

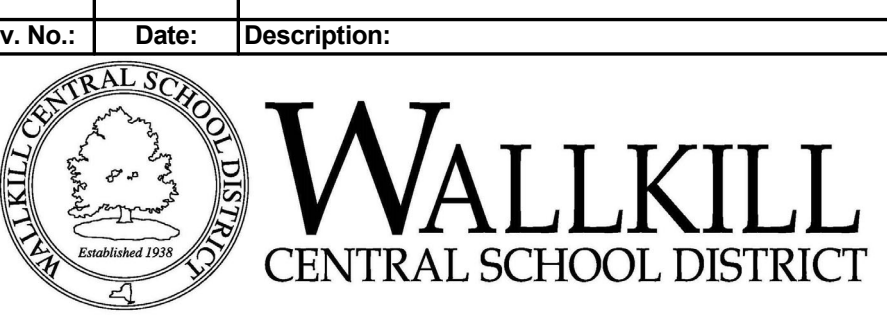
A. REFER TO AM050 FOR GENERAL NOTES.



Key Plan  
N.T.S.

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Rev. No.	Date	Description



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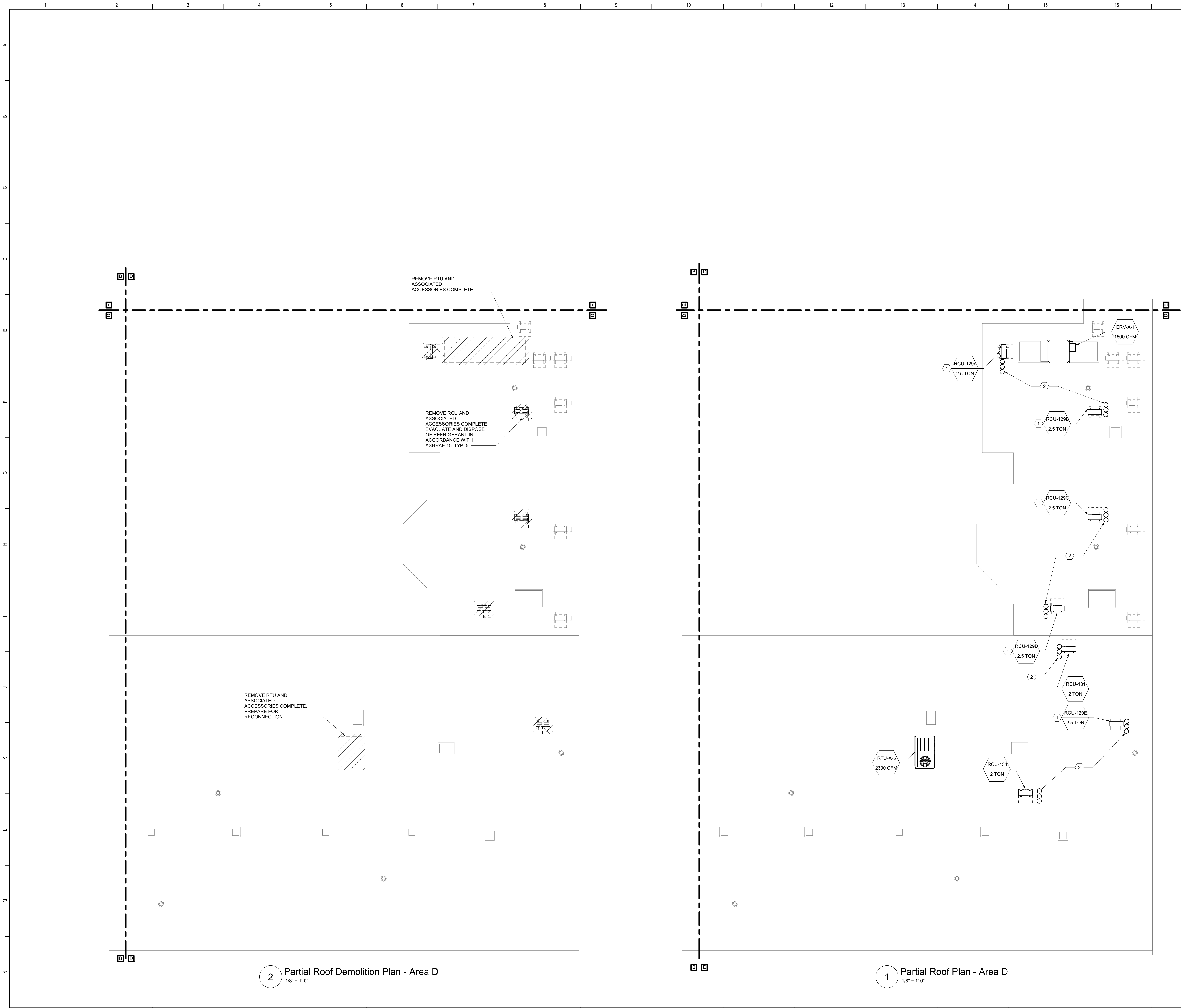


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Wallkill, New York

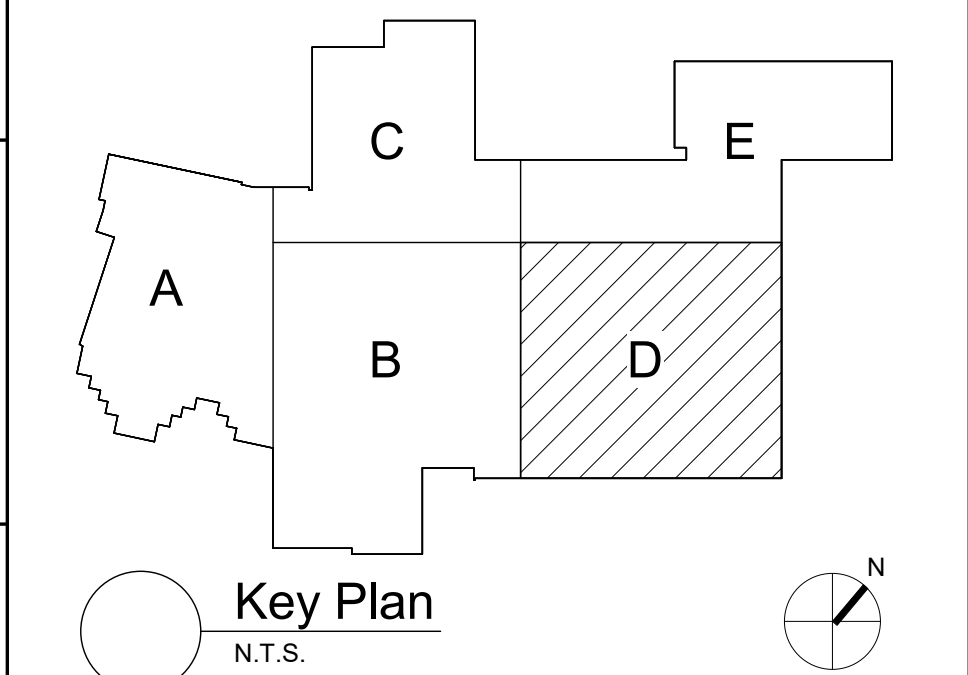
Reconstruction to:  
Wallkill Senior High School

Roof Plan - Areas B & C

Drawn By: JPF/l/pgm	Date: 06/30/2023	Drawing Number: <b>AM104</b>
Project No.: 17597-22002		

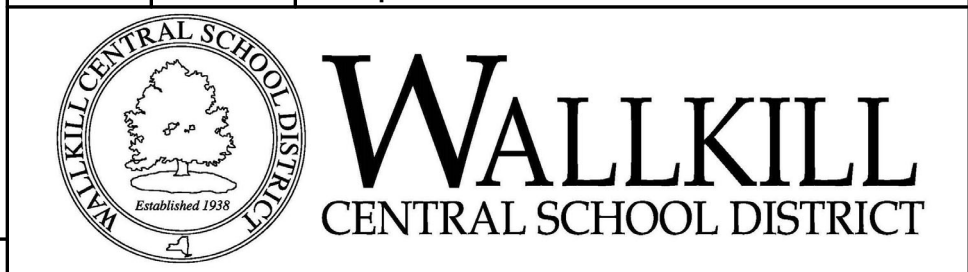


- General Notes**
- A. REFER TO AM050 FOR GENERAL NOTES.
- Keyed Notes**
- ① INSTALL CONDENSING UNIT ON EXISTING SUPPORTS SYSTEM.
- ② RS/RL UP TO RCU. VERIFY LINE SIZE WITH UNIT MANUFACTURER. 1" CD UP FROM BELOW. SEE DETAIL 11/AM500 FOR ADDITIONAL INFORMATION.



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

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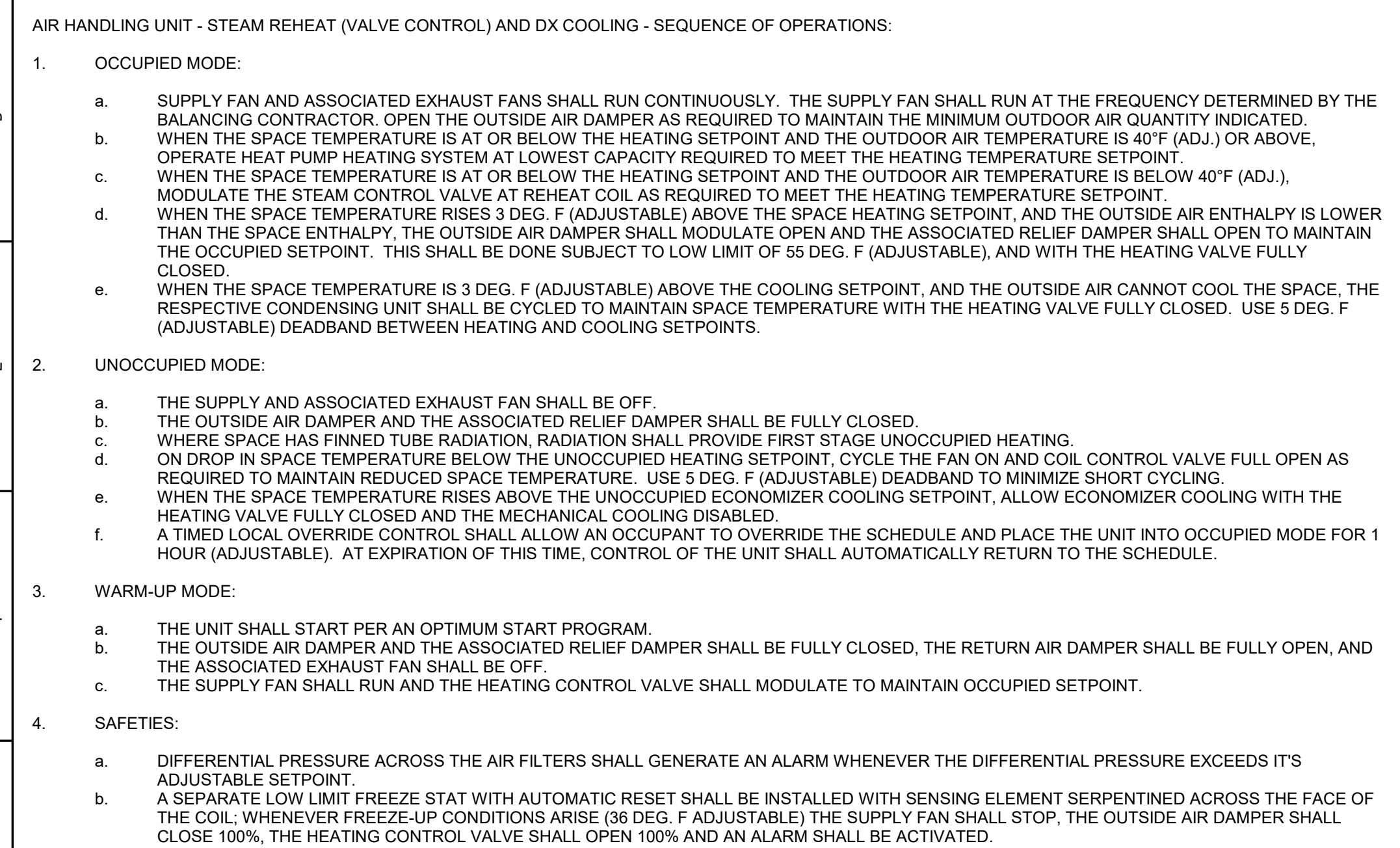


Wallkill Central School District  
Wallkill, New York

Reconstruction to:  
Wallkill Senior High School

Roof Plans - Partial Area D

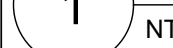
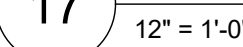
Drawn By: JPF1/pgm	Date: 06/30/2023	Drawing Number:
Project No.: 17597-22002	AM105	



## 19 NT:



- 20 NT\$



NOTE:

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<p>Reconstruction to: Wallkill Senior High School</p>
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## Details and Controls

Drawn By:	Date:
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JPF1/pgm	06/30
Project No.:	

17597-22002

Drawing Number:
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AM500



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
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 V/3ø
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 V/1ø
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															EQUIPMENT FURNISHED BY OWNER, INSTALLED BY MECHANICAL CONTRACTOR	
DWG LABEL	UNIT LOCATION	SERVES	DESIGN BASIS: TRANE MODEL	SUPPLY FAN							ELECTRICAL DATA				NOTES	
				FAN ARR.	MAX SA (CFM)	MIN. SA (CFM)	DISCH. ARR.	ESP (IN WG)	RPM	BHP	HP	V/PH	MCA	MOP		WEIGHT (LBS)
BCU-A-1	MECH 342	LOCKER RMS B41, 151, 153	BCH090	DIRECT CENTRIFUGAL	3500	1100	END	1.00	1091	1.9	3.0	208/3	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 PCF INSULATED PANELS.																
3. PROVIDE 2" MERV8 FILTER																
4. PROVIDE EC MOTOR WITH DISCONNECT SWITCH.																

PACKAGED ROOFTOP UNIT (RTU) SCHEDULE																																		EQUIPMENT FURNISHED BY OWNER, INSTALLED BY MECHANICAL CONTRACTOR										
DWG LABEL	UNIT LOCATION	SERVES	MODEL	SUPPLY FAN										ELECTRICAL DATA					HEATING DATA					HEAT PUMP					COOLING DATA										REFRIGERANT DATA - R410A					NOTES
				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	AMBIENT DB (°F)	WB (°F)	COP @47°F	NO. ROWS	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	TC (MBH)	SC (MBH)	APD (IN WG)	AMB (°F)	EER												
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	208/3	155 A	200 A	5200	59.3	76.0	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-312-201-0-11	DIRECT PLENUM	9750	3600	1500	SIDE	1.50	1471	3.1	5.0	208/3	161 A	200 A	5200	NO HEATING COIL										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	WH150A03	BC PLENUM	6700	1150	500	SIDE	1.00	1135	1.9	3.1	208/3	72 A	90 A	2200	60.0	84.3	128.2	40.0	36.2	3.34	6	79.5	67.6	59.4	58.5	162.0	123.0	0.77	90.0	12.3	(1) 1ST SCROLL, (1) 7.5T SCROLL	1-6, 10-11, 13										
RTU-A-4	ROOF - AREA B	MAIN GYM 150	VX-312-201-0-11	DIRECT PLENUM	9750	3600	1500	SIDE	1.50	1471	3.1	5.0	208/3	161 A	200 A	5200	NO HEATING COIL										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	208/3	42 A	50 A	1200	61.0	87.7	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.																	7. FOR RTU-A-1, PROVIDE HIGH EFFICIENCY ENERGY WHEEL:																											
2. PROVIDE 2" MERV8 PRE-FILTER AND MERV13 FILTERS BEFORE COILS.																	A. VENTILATION: 4900 CFM, PD: 1.0 in-wg																											
3. PROVIDE 120V/1PH (FLA=8A) GFI SERVICE OUTLET FOR SEPARATE POWER.																	a. SUMMER= EDB:88.0°F, EWB:72.6°F, LDB: 79.3°F, LWB: 68.8°F, 72.4% TOTAL EFFECTIVENESS																											
4. PROVIDE FACTORY-INSTALLED SUPPLY AND EXHAUST FAN VFDs.																	b. WINTER= EDB:8.7°F, EWB:4.0°F, LDB: 53.5°F, LWB: 38.0°F, 73.6% TOTAL EFFECTIVENESS																											
5. PROVIDE NEMA 3R UNIT DISCONNECT SWITCH FOR UNIT.																	B. EXHAUST: 4900 CFM, ENTERING SUMMER: 78.3°F/87.4°F, ENTERING WINTER: 68.8°F/47.0°F, PD: 1.0 in-wg																											
6. DESIGN BASIS: VALENT																	8. PROVIDE DIRECT PLENUM EXHAUST FAN, 4,900 CFM, ESP=0.5 IN WG, 1302 RPM, 2.3 BHP, 3 HP																											
																	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 0.65kW 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
RTH-A-1	MAIN GYM 150	28x28GR	RELIEF	5430	28x28	52x51	18.75	5.44	1000	0.10	KYNAR
RTH-A-2	MAIN GYM 150	28x28GR	RELIEF	5430	28x28	52x51	18.75	5.44	1000	0.10	KYNAR
RTH-A-3	MAIN GYM 150	28x28GR	RELIEF	5430	28x28	52x51	18.75	5.44	1000	0.10	KYNAR
RTH-A-4	MAIN GYM 150	28x28GR	RELIEF	5430	28x28	52x51	18.75	5.44	1000	0.10	KYNAR
NOTES: 1. DESIGN BASIS: LOREN COOK 2. REUSE EXISTING (30x30, VIF) 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: MITSHUBISHI MODEL	UNIT TYPE	NOMINAL CAPACITY (MBH)		SUPPLY FAN CAPACITY (CFM)	SUPPLY AIRFLOW	FAN SPEED	SOUND PRESS. (dBA)	PIPE SIZE		V/PH	NOTES	
				COOLING	HEATING					GAS	LIQUID			
HP-129A	LIBRARY 129	TPCA0A0301KA70A	CEILING SUSPENDED	30	32	565-600-635-705	600	MED	35-37-39-41	5/8"	3/8"	208 V/1ø	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 V/1ø	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 V/1ø	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 V/1ø	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 V/1ø	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 V/1ø	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 V/1ø	1-4	
NOTES: 1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95/75°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										
DESIGN MAKE: MITSUBISHI			NOMINAL CAPACITY			ELECTRICAL DATA				
DWG LABEL	LOCATION	MODEL	COOLING (BTU/h)	EER	HEATING (BTU/h)	COP @ 47F	V/PH	MOP	MCA	NOTES
RCU-129A	ROOF - AREA D	TRUZH0301HA10NA	30000	9.4	32000	3.72	208 V/1ø	40 A	24 A	1-3,5
RCU-129B	ROOF - AREA D	TRUZH0301HA10NA	30000	9.4	32000	3.72	208 V/1ø	40 A	24 A	1-3,5
RCU-129C	ROOF - AREA D	TRUZH0301HA10NA	30000	9.4	32000	3.72	208 V/1ø	40 A	24 A	1-3,5
RCU-129D	ROOF - AREA D	TRUZH0301HA10NA	30000	9.4	32000	3.72	208 V/1ø	40 A	24 A	1-3,5
RCU-129E	ROOF - AREA D	TRUZH0301HA10NA	30000	9.4	32000	3.72	208 V/1ø	40 A	24 A	1-3,5
RCU-131	ROOF - AREA D	TRUZH0241HA10NA	24000	12.5	26000	3.71	208 V/1ø	28 A	11 A	1-2,4,5
RCU-134	ROOF - AREA D	TRUZH0241HA10NA	24000	12.5	26000	3.71	208 V/1ø	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 95/75°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																									EQUIPMENT FURNISHED BY OWNER, INSTALLED BY MECHANICAL CONTRACTOR												
DWG LABEL	LOCATION	SERVES	DESIGN BASIS: RENEW AIRE MODEL:	SUPPLY		EXHAUST		SUPPLY/OUTSIDE AIR DATA								EXHAUST/RETURN AIR DATA				ENTHALPY EFFECTIVENESS		ELECTRICAL DATA								WEIGHT (LBS)	NOTES						
				AIRFLOW	ESP (" WC)	AIRFLOW	ESP (" WC)	SUMMER CONDITIONS (°F)				WINTER CONDITIONS (°F)				SUMMER (°F)		WINTER (°F)		SUMMER	WINTER	MOTOR QTY	BHP	MOTOR SIZE	MOP	MCA	VOLT	PH									
								EAT DB	EAT WB	LAT DB	LAT WB	EAT DB	EAT WB	LAT DB	LAT WB	EAT DB	EAT WB	EAT DB	EAT WB																		
ERV-A-1	ROOF - AREA D	LIBRARY 129	HE3XRTV	1500	1.00	1500	1.00	88.0	72.6	0.0	0.0	8.7	4.0	0.0	0.0	76.3	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.																																3. PROVIDE ONBOARD VFDs AND TEFC MOTORS.			5. PROVIDE 24" ROOF CURB.		
2. PROVIDE STARTER AND INTEGRAL NEMA 3 NON-FUSED DISCONNECT SWITCH. PROVIDE SINGLE POINT CONNECTION.																																4. PROVIDE CONTROL TRANSFORMER.					

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 W (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	0.10	50.0	86.5	59.4	3.0	61.5	1
RHC-A-141	TEAM ROOM 141	STORAGE 150A	BCU-A-1	DSWB	24x12	2.00	660	0.020	1	1200	0.10	85.0	89.4	31.8	3.0	32.9	1
RHC-A-151	BOY'S LOCKER 151	STORAGE 150A	BCU-A-1	DSWB	24x12	2.00	575	0.020	1	1150	0.10	85.0	89.9	31.1	3.0	32.2	1
RHC-A-153	GIRL'S 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	53.8	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	48x48	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	48x48	6.00	667	0.020	1	4050	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.																	



