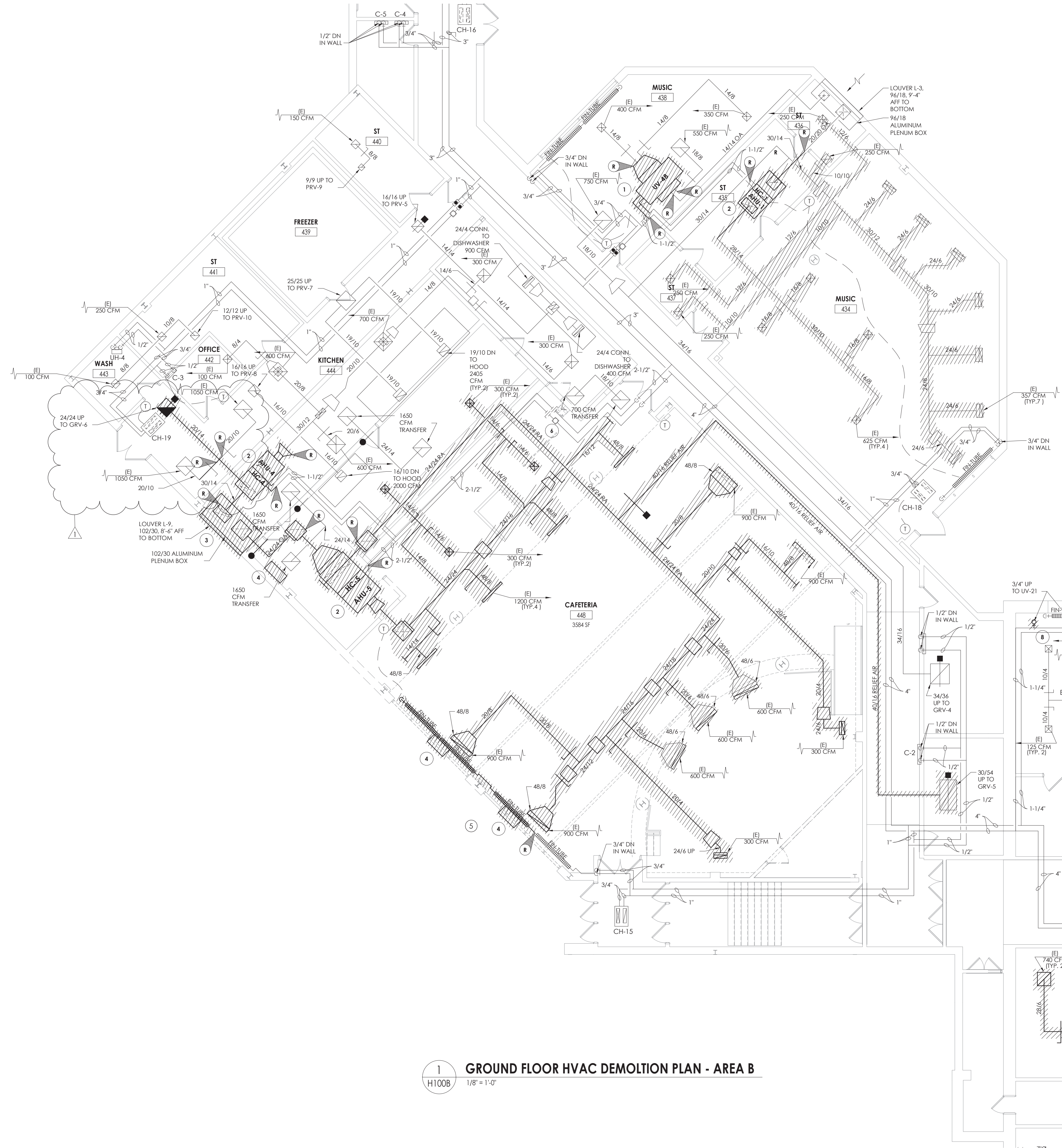




1 GROUND FLOOR HVAC DEMOLITION PLAN - AREA B
H100B 1/8" = 1'-0"

- KEY NOTES**
- 1 REMOVE EXISTING UNIT VENTILATOR. SAVE CONTROL VALVE ACTUATOR AND PREPARE CONTROL WIRING FOR NEW UNIT.
 - 2 REMOVE EXISTING AIR HANDLING UNIT AND ASSOCIATED SUPPORTS AND DUCTWORK TO POINTS INDICATED. SALVAGE CONTROLS WIRING. PREPARE CONTROL, PIPING AND DUCTWORK FOR NEW UNIT.
 - 3 REMOVE EXISTING OUTDOOR AIR LOUVER AND PLENUM.
 - 4 REMOVE EXISTING EXHAUST FAN AND CONTROLS.
 - 5 REMOVE EXISTING FIN TUBE AND ENCLOSURE TO POINTS INDICATED. PREPARE PIRING FOR NEW CONNECTION.
 - 6 RELOCATE APPROXIMATELY 20 LINEAR FEET OF EXISTING 2-1/2" HHWS/R PIPING TO ALLOW FOR INSTALLATION OF NEW DIVIDING WALL.

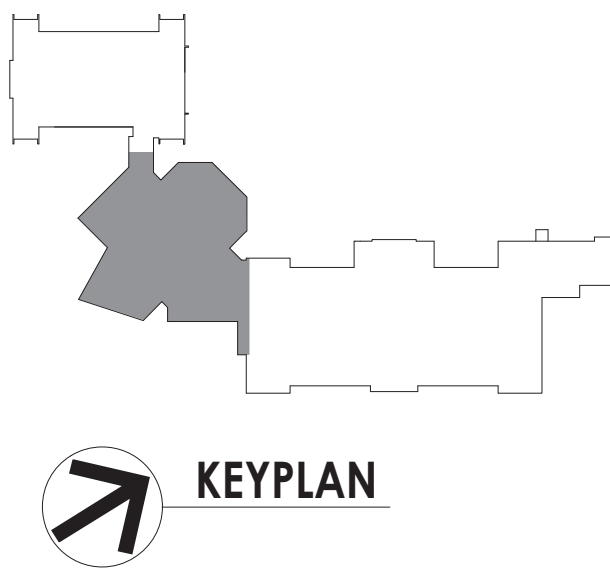
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PROJECT INFORMATION		
Project Number	13940.18	
Client Name	NEWBURGH ENLARGED CITY SCHOOL DISTRICT	
Project Name	PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT	
Project Address	405 Union Avenue, New Windsor, NY 12553	
SED Number	44-16-00-01-0-039-011	
PROJECT ISSUE SCHEDULE		
No.	Date	Description
1	9/17/21	BID ADDENDUM #1

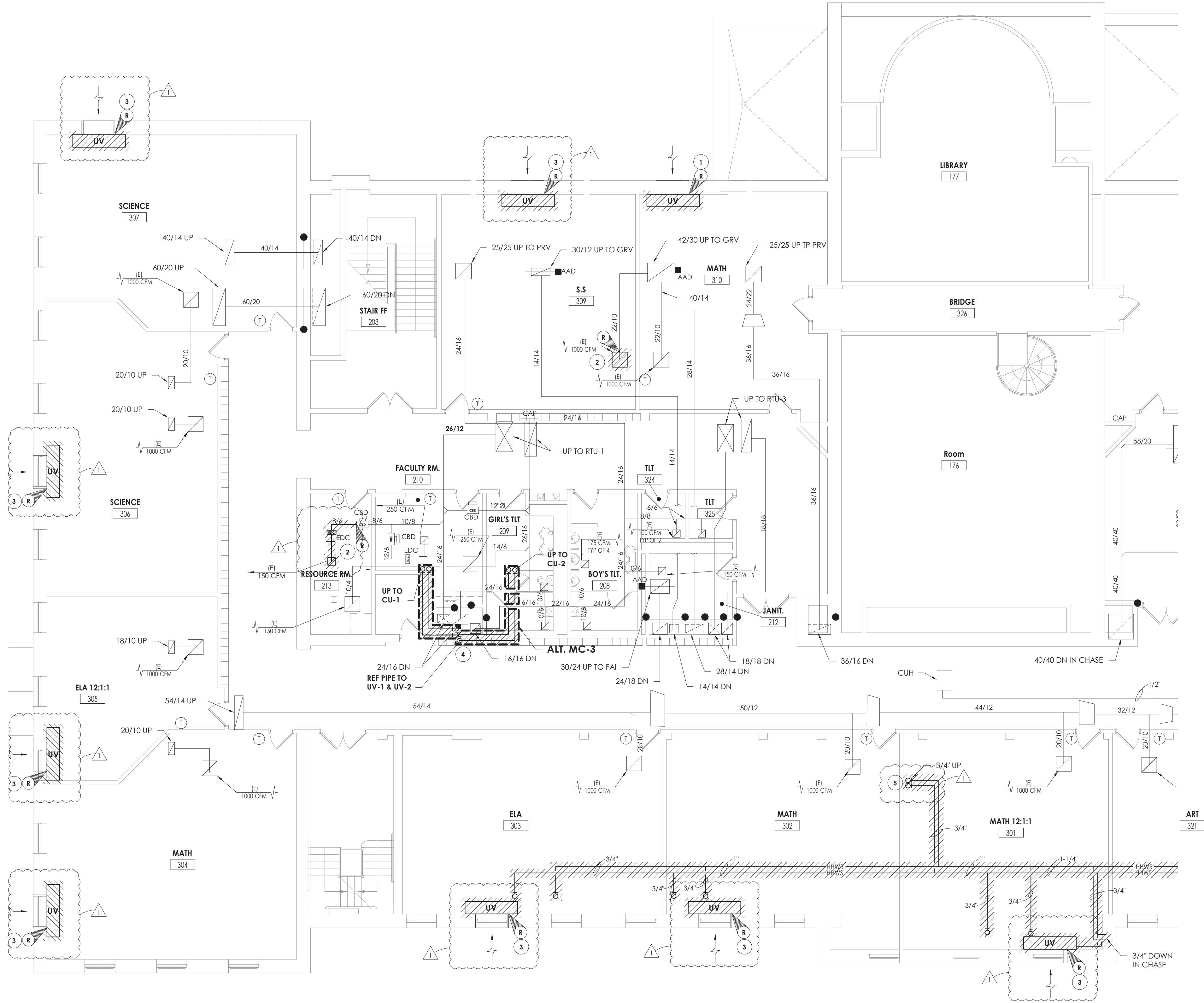
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED. THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION		
Issued	09/09/2021	Scale As indicated
Project Status	CONSTRUCTION DOCUMENTS	
Drawn By	NRH	Checked By JJM
Drawing Title	GROUND FLOOR HVAC DEMOLITION PLAN - AREA B	

Drawing Number
HMS
H100B



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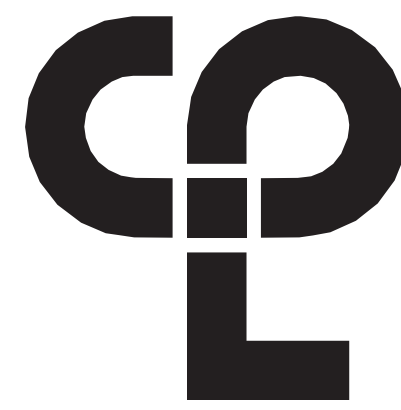


1 SECOND FLOOR HVAC DEMOLITION PLAN - AREA C
H102C 1/8" = 1'-0"

KEY NOTES

- 1 REMOVE EXISTING UNIT VENTILATOR AND OUTDOOR AIR LOUVER. SAVE CONTROLS AND CONTROL WIRING.
- 2 REMOVE DUCTWORK TO POINT INDICATED AND PREPARE DUCTWORK FOR NEW CONNECTION.
- 3 REMOVE EXISTING UNIT VENTILATOR. SAVE CONTROL VALVE ACTUATOR AND PREPARE CONTROL WIRING FOR EXTENSION TO NEW UNIT. OUTDOOR AIR LOUVER TO REMAIN.
- 4 REMOVE EXISTING REFRIGERANT LINES IN ENTIRETY.
- 5 REMOVE PIPING TO POINT INDICATED AND PREPARE FOR NEW CONNECTION.

1



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PROJECT INFORMATION

Project Number
13940.18
Client Name

NEWBURGH ENLARGED CITY
SCHOOL DISTRICT

Project Name
PHASE 3: HERITAGE MIDDLE
SCHOOL 2019 CAPITAL
IMPROVEMENT PROJECT

Project Address
405 Union Avenue, New Windsor, NY 12553

SED Number
44-16-00-01-0-039-011

PROJECT ISSUE SCHEDULE

No.	Date	Description
1	9/17/21	BID ADDENDUM #1

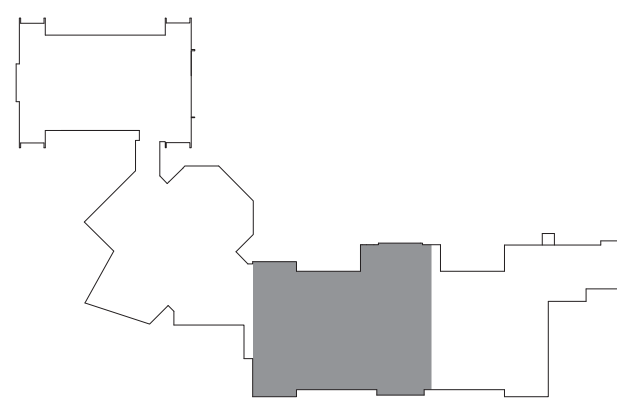
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED. THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued
09/09/2021
Scale
As indicated
Project Status
CONSTRUCTION DOCUMENTS
Drawn By
NRH
Checked By
JJM
Drawing Title
SECOND FLOOR HVAC
DEMOLITION PLAN - AREA C

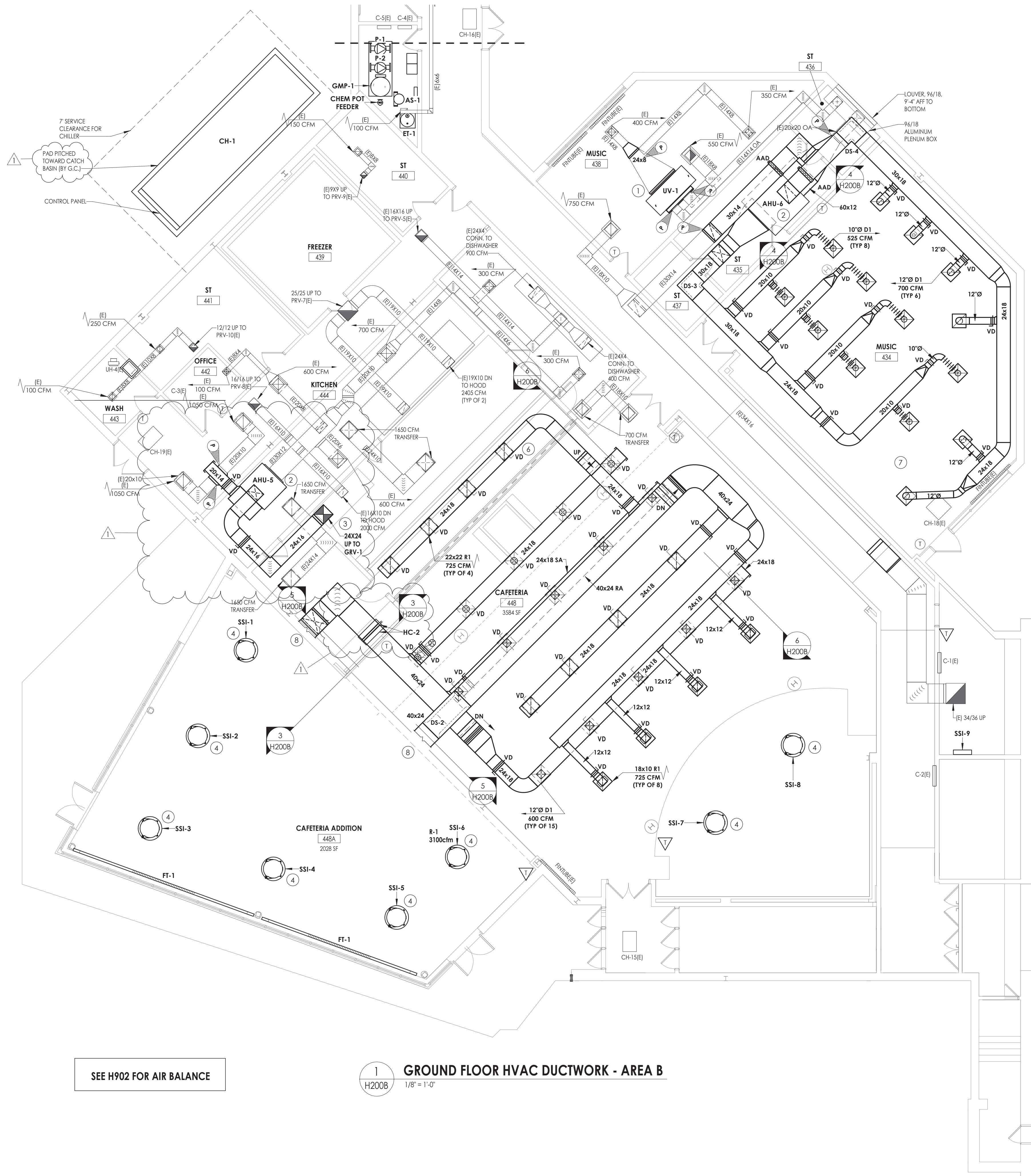
Drawing Number

HMS
H102C



KEYPLAN

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1 GROUND FLOOR HVAC DUCTWORK - AREA B
H200B 1/8" = 1'-0"

2 TYPICAL MOUNTING SSI SECTION
H200B 1/4" = 1'-0"

3 CAFETERIA RTU-4 SECTION
H200B 1/8" = 1'-0"

4 MUSIC ROOM ELEVATION
H200B 1/8" = 1'-0"

5 CAFETERIA DUCTWORK ELEVATION
H200B 1/8" = 1'-0"

6 CAFETERIA DUCTWORK SECTION
H200B 1/8" = 1'-0"

KEYPLAN

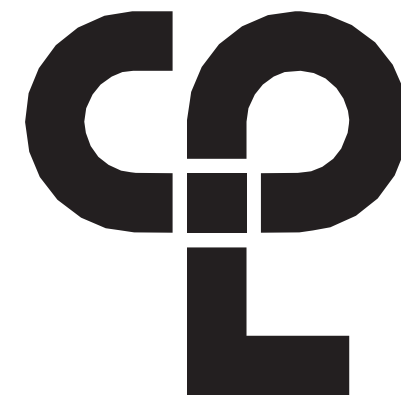
- KEY-NOTES**
- 1 MOUNT UNIT VENTILATOR ABOVE CEILING. COORDINATE WITH ANY CEILING UTILITIES. MAINTAIN ACCESS FOR FILTER CHANGES. EXTEND EXISTING CONTROLS TO NEW UNIT LOCATION.
 - 2 PROVIDE NEW AIR HANDLING UNIT ABOVE CEILING. PROVIDE VIBRATION ISOLATION. CONNECT DUCTWORK TO POINTS INDICATED. COORDINATE UNIT SERVICE ACCESS WITH ABOVE CEILING STRUCTURE.
 - 3 24X36 OUTDOOR AIR DUCT UP TO GV-1 ON SLOPED ROOF.
 - 4 MOUNT VRE UNIT TIGHT TO STRUCTURE. VRE SHALL BE PROVIDED WITH SQUARE CASING. COORDINATE WITH ARCHITECTURAL CEILING GRID AND LIGHTING.
 - 5 COORDINATE DUCT ROUTING WITH STRUCTURAL STEEL.
 - 6 COORDINATE NEW DUCTWORK WITH NEW DIVIDER.
 - 7 COORDINATE CEILING WITH GC.
 - 8 PROVIDE OPENING FOR NEW SUPPLY AND RETURN DUCTWORK. PROVIDE WATER TIGHT FLASHING.

PROJECT INFORMATION
Project Number
13940.18
Client Name
NEWBURGH ENLARGED CITY
SCHOOL DISTRICT
Project Name
PHASE 3: HERITAGE MIDDLE
SCHOOL 2019 CAPITAL
IMPROVEMENT PROJECT
Project Address
405 Union Avenue, New Windsor, NY 12553
SBD Number
44-16-00-01-0-039-011
PROJECT ISSUE SCHEDULE
No. Date Description
1 9/17/21 BID ADDENDUM #1

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SHEET INFORMATION
Issued
09/09/2021
Project Status
CONSTRUCTION DOCUMENTS
Drawn By
NRH
Checked By
JJM
Drawing Title
GROUND FLOOR HVAC
DUCTWORK PLAN - AREA B
Drawing Number
HMS
H200B

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PROJECT INFORMATION

Project Number
13940.18
Client Name
**NEWBURGH ENLARGED CITY
SCHOOL DISTRICT**
Project Name
**PHASE 3: HERITAGE MIDDLE
SCHOOL 2019 CAPITAL
IMPROVEMENT PROJECT**

Project Address
405 Union Avenue, New Windsor, NY 12553

SED Number
44-16-00-0-039-011

PROJECT ISSUE SCHEDULE

No.	Date	Description
1	9/17/21	BID ADDENDUM #1

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IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT,
ENGINEER OR SURVEYOR IS ALTERED. THE ALTERING PARTY
SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION:
"ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE
OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE
ALTERATION.

SHEET INFORMATION

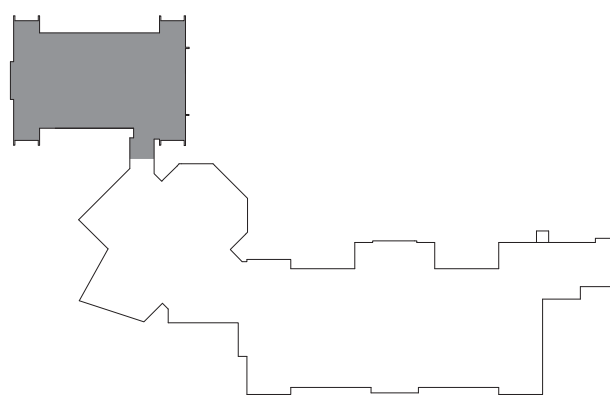
Issued
09/09/2021
Scale
As indicated
Project Status
CONSTRUCTION DOCUMENTS
Drawn By
NRH
Checked By
JJM
Drawing Title
FIRST FLOOR HVAC DUCTWORK
PLAN - AREA A

Drawing Number

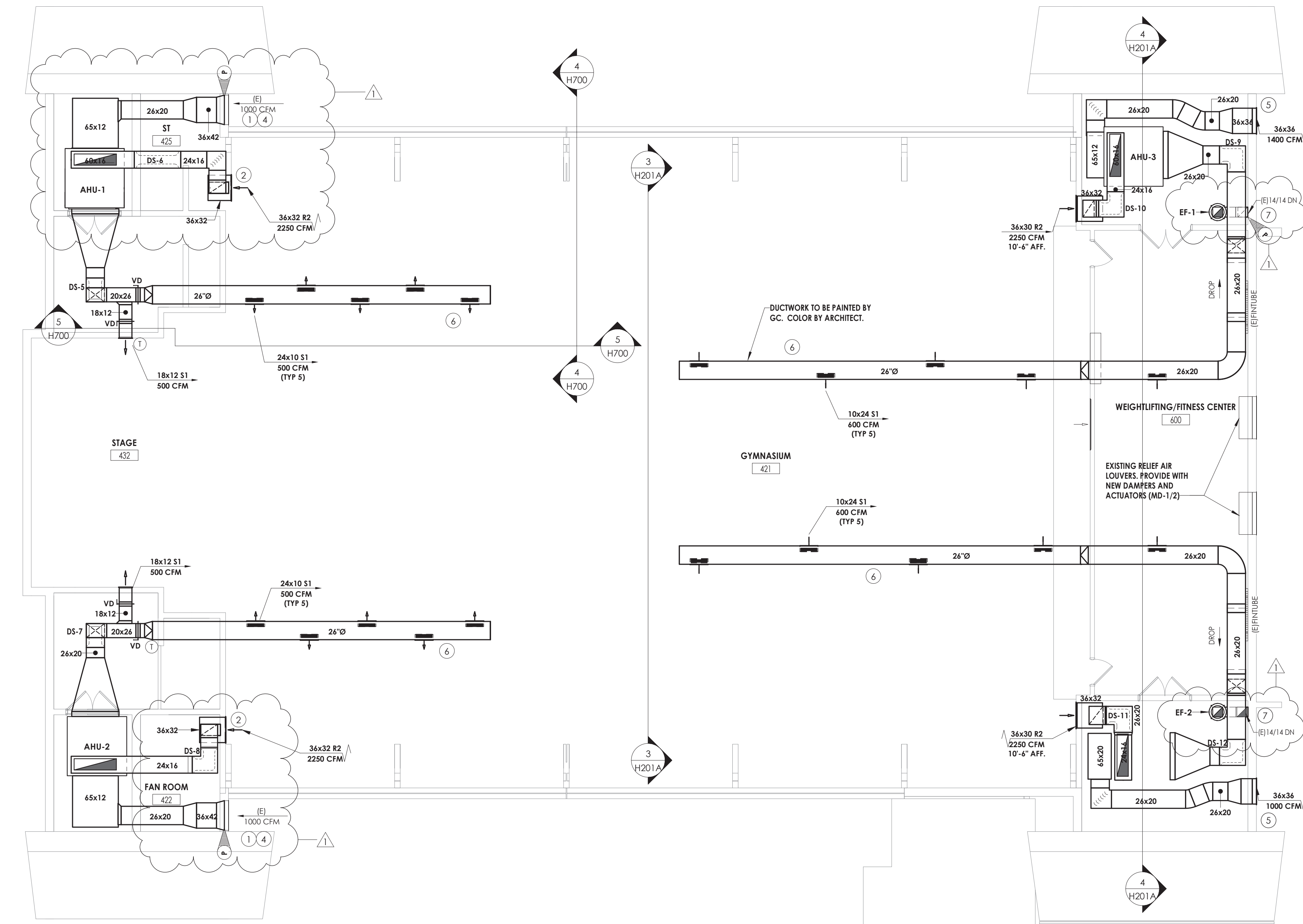
HMS
H201A

KEY NOTES

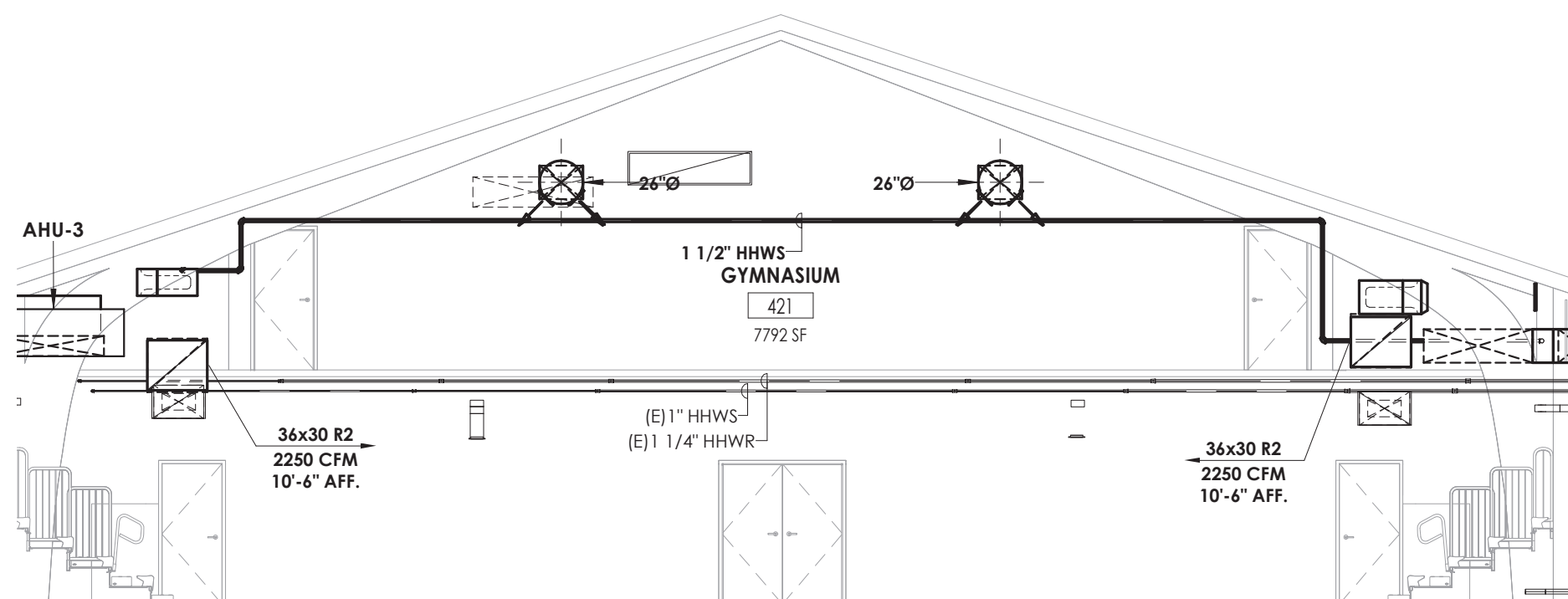
- 1 MOUNT AIR HANDLING UNIT 12" ABOVE FINISHED FLOOR. MAINTAIN EQUIPMENT ACCESS REQUIREMENTS. EXTEND EXISTING CONTROLS TO NEW UNIT.
- 2 RE-USE EXISTING OPENING IN WALLS. PROVIDE GRILLE.
- 3 PROVIDE NEW RETURN AIR LOUVER. COLOR BY ARCHITECT.
- 4 REUSE EXISTING 36"x42" SUPPLY AIR LOUVER.
- 5 PROVIDE NEW OUTDOOR AIR LOUVER. PROVIDE WITH BIRDSCREEN AND DRAINABLE BLADES.
- 6 HANG DUCTWORK WITH CABLE.
- 7 CONNECT NEW FAN TO EF WITH 14"X14" DUCTWORK.



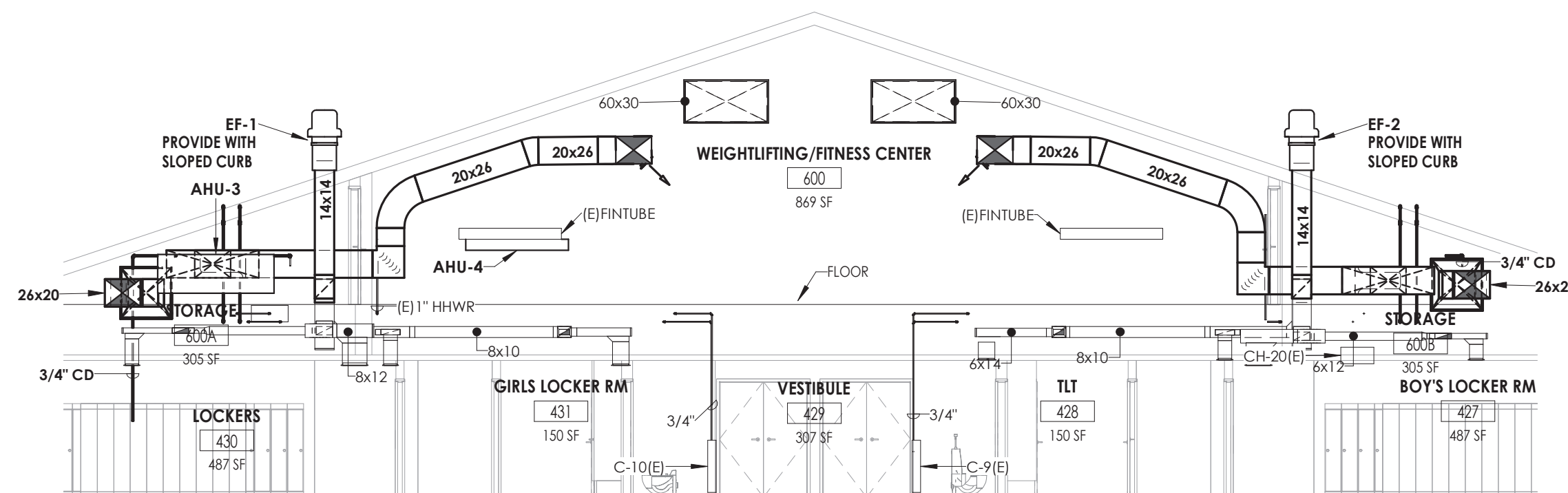
KEYPLAN



1 FIRST FLOOR HVAC DUCTWORK PLAN - AREA A
1/8" = 1'-0"



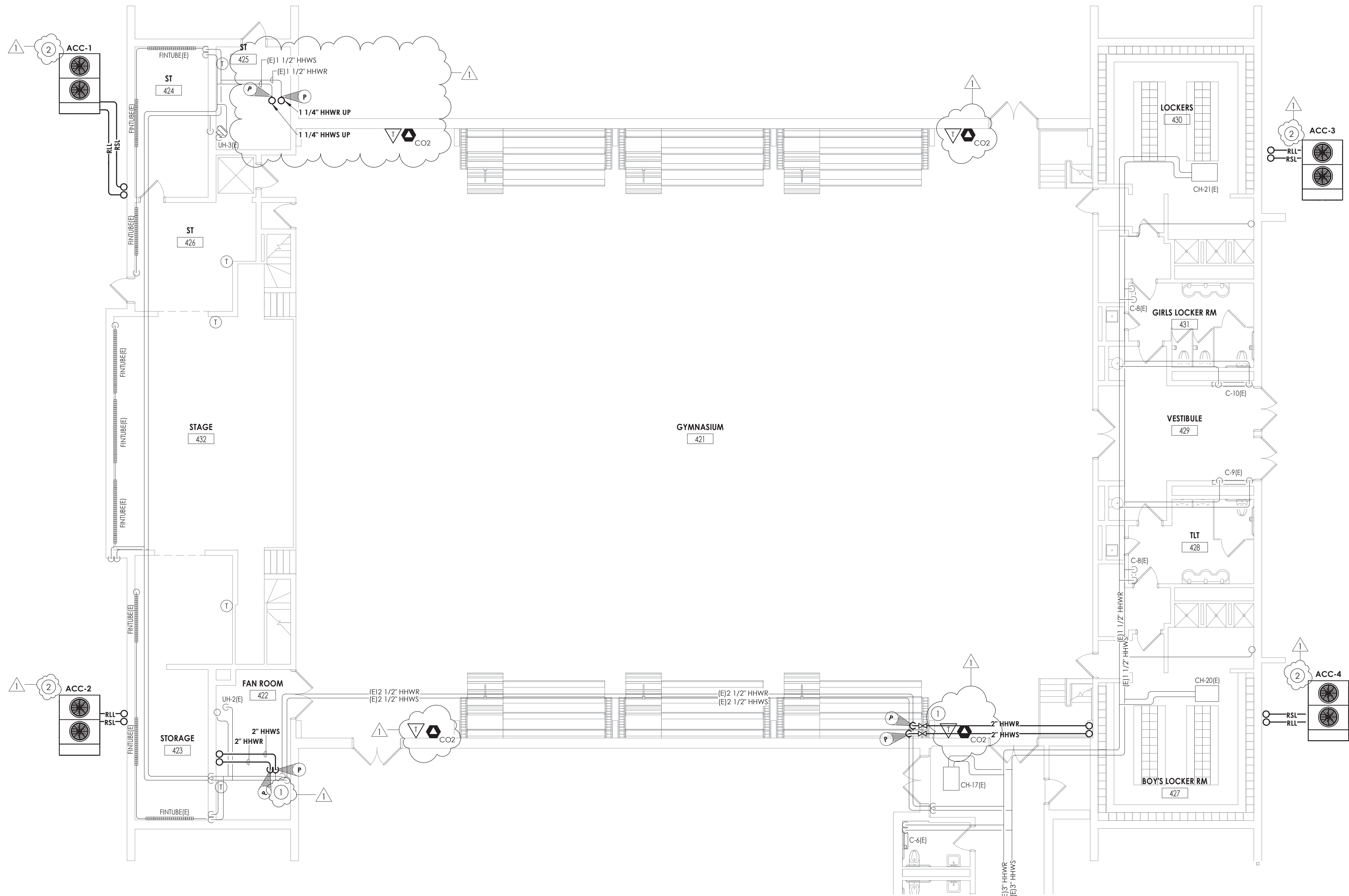
3 GYMNASIUM ELEVATIONS
1/8" = 1'-0"



4 LOCKER AND WEIGHTLIFTING SECTION
1/8" = 1'-0"

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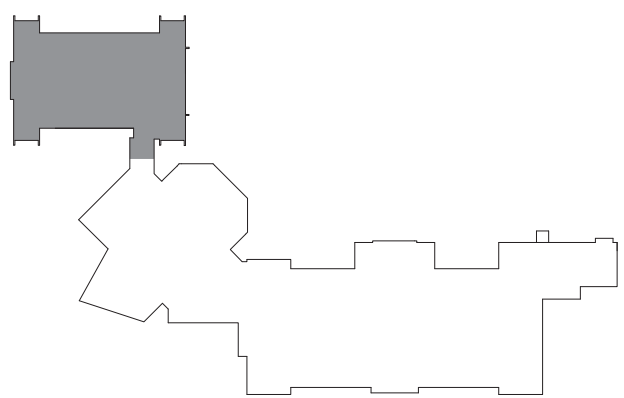
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1
H300A

GROUND FLOOR HVAC PIPING PLAN - AREA A

1/8" = 1'-0"



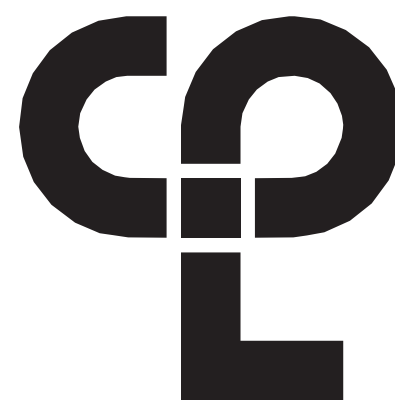
KEYPLAN

GENERAL NOTES

- ALL COOLING EQUIPMENT ABOVE THE CEILING SHALL HAVE SECONDARY DRAIN PANS WITH FLOAT OVERFLOW ALARM CONNECTED TO THE BMS.
- EXTEND ALL EXISTING CONTROL WIRING TO NEW UNITS. COORDINATE WITH JOHNSON CONTROLS SYSTEMS. SENSORS BY JCS.

KEY NOTES

- CONNECT TO EXISTING PIPING MAIN AT POINT INDICATED.
- MOUNT ACC ON PAD BY G.C. RSL/RLL PIPING TO AHU'S INSIDE SECURE TO WALL.



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PROJECT INFORMATION

Project Number
13940.18
Client Name
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
Project Name
PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT

Project Address
405 Union Avenue, New Windsor, NY 12553

SED Number
44-16-00-01-0-039-011

PROJECT ISSUE SCHEDULE

No.	Date	Description
1	9/17/21	BID ADDENDUM #1

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SHEET INFORMATION

Issued	Scale
09/09/2021	As indicated

Project Status

CONSTRUCTION DOCUMENTS

Drawn By	Checked By
NRH	JJM

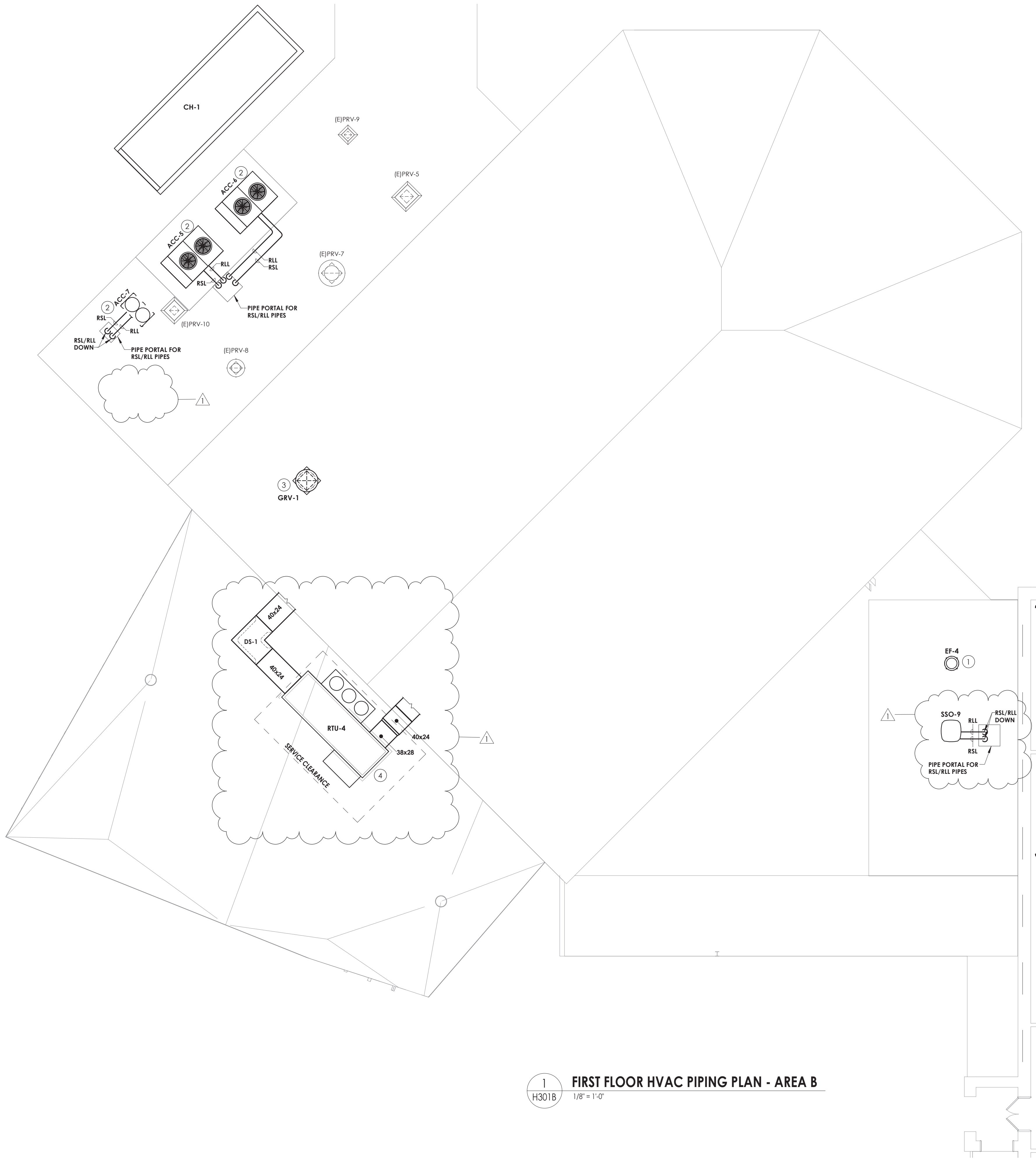
Drawing Title

GROUND FLOOR HVAC PIPING PLAN - AREA A

Drawing Number

HMS
H300A

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1
H301B
FIRST FLOOR HVAC PIPING PLAN - AREA B
1/8" = 1'-0"



- GENERAL NOTES**
1. ALL COOLING EQUIPMENT ABOVE THE CEILING SHALL HAVE SECONDARY DRAIN PANS WITH FLOAT OVERFLOW ALARM CONNECTED TO THE BMS.
 2. EXTEND ALL EXISTING CONTROL WIRING TO NEW UNITS. COORDINATE WITH JOHNSON CONTROLS SYSTEMS. SENSORS BY JCS.
- KEY NOTES**
1. INSTALL NEW RELIEF FAN ON EXISTING CURB.
 2. PROVIDE NEW RAILS WITH VIBRATION ISOLATION FOR NEW CONDENSING UNIT.
 3. PROVIDE NEW GRAVITY INTAKE AND SLOPED CURB. FIELD VERIFY ROOF SLOPE.
 4. PROVIDE NEW ROOFTOP UNIT WITH 12" CURB.

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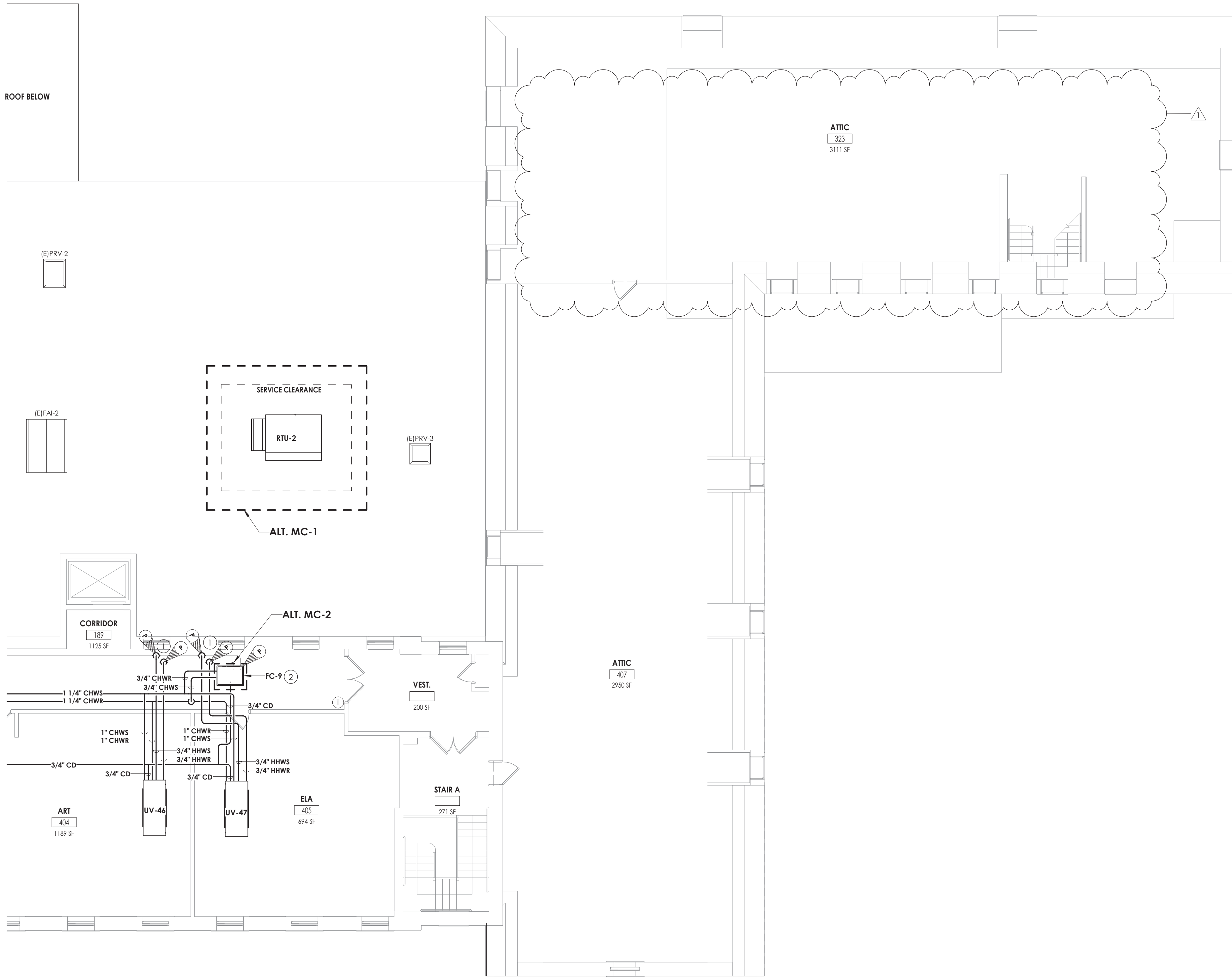
PROJECT INFORMATION		
Project Number	13940.18	
Client Name	NEWBURGH ENLARGED CITY SCHOOL DISTRICT	
Project Name	PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT	
Project Address	405 Union Avenue, New Windsor, NY 12553	
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SHEET INFORMATION	
Issued	Scale
09/09/2021	As indicated
Project Status	CONSTRUCTION DOCUMENTS
Drawn By	Checked By
NRH	JJM
Drawing Title	FIRST FLOOR HVAC PIPING PLAN - AREA B
Drawing Number	HMS H301B

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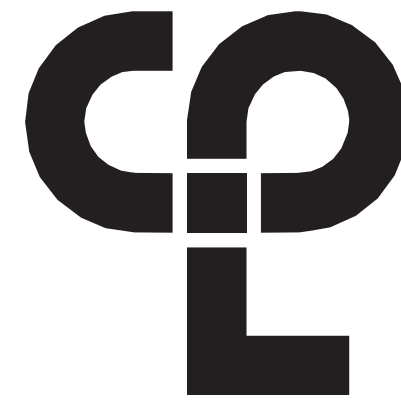
1 THIRD FLOOR HVAC PIPING PLAN - AREA D
H303D 1/8" = 1'-0"

GENERAL NOTES

- ALL COOLING EQUIPMENT ABOVE THE CEILING SHALL HAVE SECONDARY DRAIN PANS WITH FLOAT OVERFLOW ALARM CONNECTED TO THE BMS.
- EXTEND ALL EXISTING CONTROL WIRING TO NEW UNITS. COORDINATE WITH JOHNSON CONTROLS SYSTEMS. SENSORS BY JCS.

KEY NOTES

- CONNECT NEW PIPING TO EXISTING PIPING AT POINTS INDICTAED. RE-INSULATE ANY EXISTING PIPING AT CONNECTED LOCATIONS.
- CONNECT TO EXISTING TEMPERATURE CONTROLS.



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PROJECT INFORMATION

Project Number
13940.18
Client Name
NEWBURGH ENLARGED CITY
SCHOOL DISTRICT
Project Name
PHASE 3: HERITAGE MIDDLE
SCHOOL 2019 CAPITAL
IMPROVEMENT PROJECT

Project Address
405 Union Avenue, New Windsor, NY 12553

SED Number
44-16-00-01-0-039-011

PROJECT ISSUE SCHEDULE

No.	Date	Description
1	9/17/21	BID ADDENDUM #1

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SHEET INFORMATION

Issued	Scale
09/09/2021	As indicated

Project Status
CONSTRUCTION DOCUMENTS
Drawn By
NRH
Checked By
JJM
Drawing Title
THIRD FLOOR HVAC PIPING PLAN
- AREA D

Drawing Number

HMS
H303D



ROOF TOP ENERGY RECOVERY UNIT																													
MARK	LOCATION	AREA SERVED	SA (CFM)	EA (CFM)	RA (CFM)	COOLING COIL					SUPPLY FAN					EXHAUST FAN					TOTAL MBH SAVED SUMMER	TOTAL MBH SAVED WINTER	OPERATING WEIGHT (LBS)	FILTERS	ELECTRICAL REQUIREMENTS			TYPICAL UNIT MFG & MODEL NO.	REMARKS:
						TOTAL MBH	SENS MBH	EAT	LAT	AMB	FAN TYPE	E.S.P. (IN. WC)	RPM	BHP	HP	FAN TYPE	E.S.P. (IN. WC)	RPM	BHP	HP					V/Ø/HZ	FLA	MCA		
RTU-4	CAFÉ ROOF	CAFETERIA	9100	6000	6000	486	320	79.7	54.07	75	PLENUM	1	1760	11.89	15	PLENUM	0.5	1760	9.39	10	183		3780	MERV 13	208/360	195	207	AAON RN-Q25-8-0-EB09-EJK	1,2,3,4
REMARKS: 1. FACTORY MOUNTED AND WIRED DISCONNECT. 115V CONVENIENCE OUTLET, FACTORY WIRED. CLOGGED FILTER SWITCH. 2. ECM CONDENSER FAN, HEAT PRESSURE CONTROL WITH SIGHT GLASS. REMOTE SAFETY SHUTDOWN TERMINAL. 3. TERMINAL STRIP FOR BMS CONTROL OF FAN AND DAMPERS. COMPATIBLE WITH JOHNSON CONTROLS FACILITY EXPLORER. 4. DOUBLE WALL, R-13 FOAM INSULATION. STAINLESS STEEL DRAIN PAN.																													

AIR SEPARATOR SCHEDULE									
MARK	LOCATION	SERVED	GPM	WEIGHT (LBS)	DIA. (IN.)	LNG. (IN.)	STRAINER SQ. IN. FA	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
AS-1	CHILLER PUMP ROOM	CHILLED WATER	300	579	18	44	6	B&G R-6F	
REMARKS: 1. 30% PROPYLENE GLYCOL.									

PUMP SCHEDULE									
MARK	LOCATION	SERVICE	GPM	HD (FT.)	HP	VOLTS	PH	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
P-1	STORAGE	CHILLED WATER	300	80	15	208	3	B&G E-1510 3BD	1,2,3
P-2	STORAGE	CHILLED WATER	300	80	15	208	3	B&G E-1510 3BD	1,2,3
REMARKS: 1. 30% PROPYLENE GLYCOL. 2. SUCTION DIFFUSER. 3. WALL MOUNTED VFD UNIT DISCONNECT.									

VRF FAN COIL UNITS									
MARK	TOTAL AIRFLOW CFM	NOM.HEATING CAPACITY BTU/HR	NOM.COOLING CAPACITY BTU/HR	WEIGHT (LBS)	POWER (ØV/HZ)	AMPS	TYPICAL UNIT MFG & MODEL NO.	REMARKS:	
SSI-1	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-2	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-3	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-4	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-5	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-6	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-7	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-8	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-9	250-430	21500	15000	23.4	1 / 208 / 60		SAMSUNG - AR12T5FABWKNVCV	1,2,3,4,5	
REMARKS: 1. UNIT MOUNTED AND WIRED DISCONNECT. 2. BAC NET INTERGRATION TO BMS. JOHNSON CONTROLS FACILITY EXPLORER. 3. COLOR WHITE. 4. DRAIN PAN LEVEL SESORS. 5. CONDENSATE PUMP.									

EXPANSION TANK SCHEDULE									
MARK	LOCATION	SERVED	ACCEPT. GAL.	DIA (IN.)	HEIGHT (IN.)	WEIGHT FULL (LBS.)	TYPICAL UNIT MFG & MODEL NO.	REMARKS:	
ET-1	CHILLER PUMP ROOM	CHILLED WATER	79	20	58	992	TACO CA-300	1,2	
REMARKS: 1. REMOVABLE BLADDER TYPE. 2. CHARGE TO 12PSI. 3. 30% PROPYLENE GLYCOL.									

FIN TUBE SCHEDULE											
MARK	BTU/FT.	GPM	TUBE SIZE (IN.)	FINS / FT.	EWT (°F)	EAT (°F)	ENCLOSURE		TYPICAL UNIT MFG & MODEL NO.	REMARKS:	
							H (IN.)	D (IN.)			
FT-1	720	5	3/4	40	180	65	10-3/4	6-1/16	PEDESTAL	STERLING JVB	1,2,3,4
REMARKS: 1. CONTROL VALVES ABOVE THE CEILING. 2. COLOR BY ARCHITECT. 3. ELEMENT LENGTH LISTED ON PLANS. CAT - 66289C RETURN 4. COORDINATE HEIGHT WITH ELECTRICAL DEVICES.											

CHILLER SCHEDULE															
MARK	NOMINAL CAPACITY (TONS)	% PROP GLYCOL	CHILLED WATER				REFRIGERANT		ELECTRICAL DATA			WEIGHT (LBS)	TYPICAL UNIT MFG & MODEL NO.	REMARKS	
			FLOW (GPM)	DELTA P (FT)	IP/LV	EWT (°F)	LWT (°F)	REF. TYPE.	CHARGE (LB)	VOLTS/Ø	MCA				MOP
CH-1	180	30	270	17.42	20.516	56.97	42.00	134A	420.00	230/3	654	800	15700	TRANE-ACRB1805B	1,2,3,4
REMARKS: 1. FACTORY MOUNTED AND WIRED DISCONNECT. 2. THE SCHEDULED REFRIGERANT CHARGE IS A MANUFACTURERS ESTIMATE. COORDINATE THE CORRECT CHARGE BASED ON FIELD CONDITIONS. 3. FIVE YEAR COMPRESSOR WARRANTY. 4. HEAT TRACED EVAPORATOR BARREL AND EXTERIOR PIPING. HEAT TRACE SHALL BE ON SEPARATE 120V/20AMP CIRCUIT.															

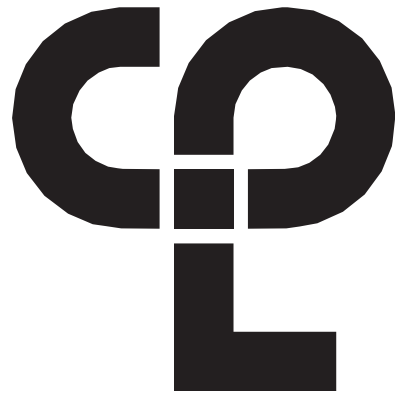
FAN COIL UNIT SCHEDULE															
MARK	TYPE	LOCATION	MAX CFM	COOLING			HEATING			ELECTRICAL DATA			TYPICAL UNIT MFG & MODEL NO.	REMARKS:	
				MBH	GPM	WPD	MBH	EWT (°F)	WATER AT	GPM	WPD	FT-WC			
FC-1	DUCTED	159 CUSTODIAN	1020	20	5	3.1	42	180	160	4.5	5.6	150	AIRTHERM 101-1	1,2,3,4,5	
FC-2	CEILING RECESSED	GROUND FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	AIRTHERM 101-1	1,2,3,4	
FC-3	CEILING RECESSED	GROUND FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	AIRTHERM 101-1	1,2,3,4,5	
FC-4	CEILING RECESSED	1ST FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	AIRTHERM 101-1	1,2,3,4,5	
FC-5	CEILING RECESSED	1ST FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	AIRTHERM 101-1	1,2,3,4,5	
FC-6	CEILING RECESSED	2ND FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	AIRTHERM 101-1	1,2,3,4,5	
FC-7	CEILING RECESSED	2ND FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	AIRTHERM 101-1	1,2,3,4,5	
FC-8	CEILING RECESSED	1ST FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	AIRTHERM 101-1	1,2,3,4,5	
FC-9	CEILING RECESSED	3RD FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	AIRTHERM 101-1	1,2,3,4,5	
FC-10	DUCTED	105B SCHOOL PSYCHOLOGIST	1020	20	5	3.1	42	180	160	4.5	5.6	150	AIRTHERM 101-1	1,2,3,4	
FC-11	CEILING RECESSED	3RD FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	AIRTHERM 101-1	1,2,3,4,5	
REMARKS: 1. FACTORY MOUNTED AND WIRED DISCONNECT. 2. PROVIDE WITH 1" MERV 7 FILTERS. 3. 30% PROPYLENE GLYCOL COOLING COIL. 4. CONDENSATE PUMP. 5. ALTERNATE NO. MC-2															

AIR HANDLING UNIT SCHEDULE																						
MARK	ROOM SERVED	CFM	MIN. OA CFM	EXT. SP W.C.	COOLING MBH					HOT WATER HEATING COIL DATA							SUPPLY FAN MOTOR DATA			TYPICAL UNIT MFG & MODEL NO.	REMARKS	
					TOTAL	SENS	ROWS	EAT °F DBWB	LAT °F DBWB	MBH	EWT	LWT	EAT °F	LAT °F	GPM	WPD FT-W.C.	BHP/HP	RPM	VOLTS/Ø			
AHU-1	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4,5	
AHU-2	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4,5	
AHU-3	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4	
AHU-4	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4	
AHU-5	KITCHEN	2600	500	1	98.3	70.57	6	80/67	56.1/44.7	128.7	180	127	60.4/56.6	105.4/71.3	5	0.3	1.68/4	1552	208/3/60	AAON:H3-CRB-8-0-162C-12F	1,2,3,4,5	
AHU-6	MUSIC	4200	1500	1.2	185.6	129.7	6	85.4/70.2	57.8/56.3	266.4	180	122.3	47.9/47.9	104.2/68.5	9.5	0.7	3.12/4	1901	208/3/60	AAON: H3-DRB-8-0-162C-12F	1,2,3,4,5	
REMARKS: 1. FACTORY MOUNTED AND WIRED DISCONNECT. ALL UNITS SHALL BE SINGLE POINT CONNECTION. 2. DAMPER ACTUATORS BY MANUFACTURER. FULLY MODULATING ACCUATORS. MERV 13 FILTERS. MAGNEHELIC HAUGE CLOG FILTER SWITCH. THERMAL EXPANSION VALVES. 3. CONNECT TO EXISTING JOHNSON CONTROLS, FACILITY EXPLORER. 4. VIBRATION ISOLATION. 5. CONTROLS RELOCATED BY OTHERS FROM EXISTING UNIT.																						

HOT WATER COIL SCHEDULE															
MARK	SERVICE	CFM	AIR DATA				GPM	WATER DATA			MFG SIZE HXL (IN.)	ROWS	TYPICAL UNIT MFG & MODEL NO.	REMARKS:	
			ENT	LVG	MAX APD (IN. WC)	MIN. MBH		ENT	LVG	MAX APD (IN. WC)					
HC-1	SF-9	2250	-2	70	0.76	174.960	18.8	180	160	3.8	15X22	2	CAPITAL COIL W8-2215-12B-HCA-R	1,2	
HC-2	RTU-4	9100	-2	70	0.56	707.616	70.8	180	160	4.5	46X30	4	CAPITAL COIL	1	
REMARKS: 1. TUBE ØD 0-625, TUBE SPACING 1.50X1.299 2. ALTERNATE WC-05.															

REGISTERS, GRILLES, AND DIFFUSERS						
MARK	APPLICATION	MATERIAL	TYPE	FINISH	DESIGN EQUIP.	REMARKS
D1	SUPPLY	STEEL	LAY-IN	WHITE	PRICE SPD	4
D2	SUPPLY	STEEL	DUCT GRILLE	WHITE	PRICE SDG	1,3
S1	SUPPLY	STEEL	DUCT GRILLE	WHITE	PRICE HCD	1
R1	RETURN/EA	STEEL	LAY-IN	WHITE	PRICE PDR	4
R2	RETURN/EA	STEEL	WALL GRILLE	WHITE	PRICE 90	2,3
REMARKS: 1. OPPOSED BLADE DAMPER. 2. CONCEALED MOUNTING. 3. SINGLE DEFLECTION, BLADES PARALLEL TO LENGTH. 4. INSULATED BACK PAN.						

FAN SCHEDULE



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PROJECT INFORMATION

Project Number
13940.18
Client Name
NEWBURGH ENLARGED CITY
SCHOOL DISTRICT

Project Name
PHASE 3: HERITAGE MIDDLE
SCHOOL 2019 CAPITAL
IMPROVEMENT PROJECT

Project Address
405 Union Avenue, New Windsor, NY 12553

SED Number
44-16-00-01-039-011

PROJECT ISSUE SCHEDULE

No. Date Description
1 9/17/21 BID ADDENDUM #1

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW
AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON
(UNLESS ACTING UNDER THE DIRECTION OF A LICENSED
ARCHITECT, ENGINEER OR LAND SURVEYOR) TO ALTER AN ITEM
IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT,
ENGINEER OR SURVEYOR IS ALTERED. THE ALTERING PARTY
SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION:
"ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE
OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE
ALTERATION.

SHEET INFORMATION

Issued 09/09/2021 Scale 1/2" = 1'-0"

Project Status

CONSTRUCTION DOCUMENTS

Drawn By NRH Checked By JJM

Drawing Title

HVAC SCHEDULES

Drawing Number

HMS
H901

UNIT VENTILATOR SCHEDULE

MARK	ROOM SERVES	OA FAN	EA FAN	UNIT TYPE	CFM	EXT. SP.	ELECTRICAL		MIN. OA CFM	WINTER				HW COIL CAPACITY				CW COIL CAPACITY				TYPICAL UNIT MFG & MODEL NO.	REMARKS:
							MCA	VOLT/Ø		OA °F		RA °F	EWI °F	EAT °F	LAT °F	MBH	GPM	EWI °F	EAT °F	LAT °F	MBH	GPM	
UV-1	438	-	-	HORIZONTAL	1500	0.625	5.9	120/1	600	5	72	180	45.2	95	81049.5	4.2	45	79.8	56	38734.5	6.7	MAGICAIRE MAUH	1,2,4,5,6
UV-2	105	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	550	5	72	180	35.2	95	64937.3	3.3	45	81.6	56	27776.0	4.8	MAGICAIRE MAUH	1,2,4,5,6
UV-3	105A	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	450	5	72	180	41.9	95	57667.8	3.0	45	80.4	56	26474.0	4.5	MAGICAIRE MAUH	1,2,4,5,6
UV-4	106	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	475	5	72	180	40.2	95	59485.1	3.1	45	80.7	56	26799.5	4.6	MAGICAIRE MAUH	1,2,4,5,6
UV-5	104	[E]GRV-2	EF-6	HORIZONTAL	1500	0.625	5.9	120/1	675	5	72	180	41.9	95	86501.6	4.5	45	80.4	56	39711.0	6.8	MAGICAIRE MAUH	1,2,4,5,6,8
UV-6	101	[E]GRV-2	EF-5	HORIZONTAL	1000	0.625	5	120/1	525	5	72	180	36.8	95	63119.9	3.3	45	81.3	56	27450.5	4.7	MAGICAIRE MAUH	1,2,4,5,6,8
UV-7	114	SF-3	RF-4	HORIZONTAL	1500	0.625	5.9	120/1	675	5	72	180	41.9	95	86501.6	4.5	45	80.4	56	39711.0	6.8	MAGICAIRE MAUH	1,2,4,5,6,8
UV-8	113A	SF-3	RF-1	HORIZONTAL	1000	0.625	5	120/1	550	5	72	180	35.2	95	64937.3	3.3	45	81.6	56	27776.0	4.8	MAGICAIRE MAUH	1,2,4,5,6
UV-9	113B	SF-3	RF-1	HORIZONTAL	1000	0.625	5	120/1	550	5	72	180	35.2	95	64937.3	3.3	45	81.6	56	27776.0	5.7	MAGICAIRE MAUH	1,2,4,5,6
UV-10	112	SF-3	RF-1	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-11	109	SF-3	RF-1	HORIZONTAL	1000	0.625	5	120/1	470	5	72	180	40.5	95	59121.7	3.0	45	80.6	56	26734.4	5.5	MAGICAIRE MAUH	1,2,4,5,6
UV-12	110	SF-3	RF-2	HORIZONTAL	1250	0.625	5.9	120/1	525	5	72	180	43.9	95	69358.6	3.6	45	80.0	56	32604.2	6.7	MAGICAIRE MAUH	1,2,4,5,6
UV-13	111	SF-3	RF-2	HORIZONTAL	1250	0.625	5.9	120/1	525	5	72	180	43.9	95	69358.6	3.6	45	80.0	56	32604.2	6.7	MAGICAIRE MAUH	1,2,4,5,6
UV-14	206	SF-7	RF-8	HORIZONTAL	1000	0.625	5	120/1	650	5	72	180	28.5	95	72206.8	3.7	45	82.8	56	29078.0	6.0	MAGICAIRE MAUH	1,2,4,5,6
UV-15	204	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	475	5	72	180	40.2	95	59485.1	3.1	45	80.7	56	26799.5	5.5	MAGICAIRE MAUH	1,2,4,5,6
UV-16	203	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-17	202	SF-7	RF-8	HORIZONTAL	1250	0.625	5.9	120/1	575	5	72	180	41.2	95	72993.4	3.8	45	80.5	56	33253.3	6.9	MAGICAIRE MAUH	1,2,4,5,6
UV-18 (NOT USED)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UV-19	209	SF-1	RF-1	HORIZONTAL	1000	0.625	5	120/1	475	5	72	180	40.2	95	59485.1	3.1	45	80.7	56	26799.5	5.5	MAGICAIRE MAUH	1,2,4,5,6
UV-20	215	SF-1	RF-1	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-21	214	SF-1	RF-1	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-22	216	SF-1	RF-1	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-23	212	SF-1	RF-1	HORIZONTAL	1000	0.625	5	120/1	475	5	72	180	40.2	95	59485.1	3.1	45	80.7	56	26799.5	5.5	MAGICAIRE MAUH	1,2,4,5,6
UV-24	213	SF-1	RF-1	HORIZONTAL	1250	0.625	5.9	120/1	575	5	72	180	41.2	95	72993.4	3.8	45	80.5	56	33253.3	6.9	MAGICAIRE MAUH	1,2,4,5,6
UV-25	210	SF-1	RF-1	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-26	306	SF-7	RF-7	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-27	305	SF-7	RF-7	HORIZONTAL	750	0.625	4.6	120/1	325	5	72	180	43.0	95	42342.1	2.2	45	80.2	56	19692.8	4.1	MAGICAIRE MAUH	1,2,4,5,6
UV-28	304	SF-6	RF-7	HORIZONTAL	1250	0.625	5.9	120/1	525	5	72	180	43.9	95	69358.6	3.6	45	80.0	56	32604.2	6.7	MAGICAIRE MAUH	1,2,4,5,6
UV-29	309	SF-7	EF-6	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-30	310	-	EF-6	VERTICAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUV	1,2,3,4,5,7
UV-31	303	SF-6	RF-6	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-32	302	SF-6	RF-6	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-33	311	-	EF-7	VERTICAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUV	1,2,3,4,5,7
UV-34	312	SF-2	EF-7	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-35	301	SF-6	RF-6	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-36	321	SF-6	RF-6	HORIZONTAL	750	0.625	4.6	120/1	300	5	72	180	45.2	95	40524.8	2.1	45	79.8	56	19367.3	4.0	MAGICAIRE MAUH	1,2,4,5,6
UV-37	320	SF-6	RF-6	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-38	318	SF-1	RF-3	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-39	317	SF-2	RF-3	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-40	316	SF-2	RF-3	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-41	313	-	RF-4	VERTICAL	1000	0.625	5	120/1	475	5	72	180	40.2	95	59485.1	3.1	45	80.7	56	26799.5	5.5	MAGICAIRE MAUV	1,4,5,6
UV-42	314	-	RF-4	VERTICAL	1000	0.625	5	120/1	475	5	72	180	40.2	95	59485.1	3.1	45	80.7	56	26799.5	5.5	MAGICAIRE MAUV	1,4,5,6
UV-43	315	-	RF-5	VERTICAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUV	1,4,5,6
UV-44	307	SF-7	RF-7	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-45	402	SF-6	RF-9	HORIZONTAL	1500	0.625	5.9	120/1	625	5	72	180	44.1	95	82866.9	4.3	45	80.0	56	39040.0	8.1	MAGICAIRE MAUH	1,2,4,5,6
UV-46	404	SF-1	RF-10	HORIZONTAL	1500	0.625	5.9	120/1	575	5	72	180	46.3	95	79232.1	4.1	45	79.6	56	38409.0	7.9	MAGICAIRE MAUH	1,2,4,5,6
UV-47	403	SF-1	RF-11	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-48	401	SF-6	RF-12	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6

REMARKS:

1. FACTORY MOUNTED AND WIRED DISCONNECT. ALL UNIT CONTROL ACTUATORS FROM EXISTING RELOCATED BY OTHERS TO NEW UNIT.
2. CONDENSATE PUMP LITTLE GIANT VCC-20S, DRAIN PAN ALARM.
3. FULL ADAPTER WITH ENCLOSED PIPE TUNNEL, FINISHED ENDS.
4. ECM MOTORS.
5. MERV 14 FILTERS.
6. MOUNTED ABOVE THE CEILING.
7. FLOOR MOUNTED, PROVIDE WITH NEW LOUVER AND LINTLE.
8. ALTERNATE NO. MC-3

DUST COLLECTOR SCHEDULE - ALTERNATE NO. MC-5

MARK	MANUFACTURER	MODEL	SERVICE	DESIGN AIRFLOW	FAN BLOWER					SHAKER MOTOR				REMARKS:
					ESP. (IN.WG)	RPM	HP	ENCL.	V/PH/Hz	RPM	HP	ENCL.	V/PH/Hz	
DC-1	STERNVENT	DKPD 36007-2	TECH 08	2250 CFM	8	3450	7.5	TEFC	208/3/60	1150	1/3	TEFC	208/3/60	1,2,3,4,5,6
REMARKS: 1. BLOWER MOTOR SHALL BE AMCA "C" SPARK RESISTANT CONSTRUCTION. 2. FACTORY MOUNTED AND WIRED NEMA 4 MAGNETIC STARTERS FOR BLOWER AND SHAKER. 3. TWO 55-GALLON DRUMS FOR DUST COLLECTION. 4. EXPLOSION RELIEF DOOR. 5. DUST SWITCH SYSTEM FOR INTERLOCKING DUST COLLECTOR OPERATION WITH SHOP EQUIPMENT. 6. FLAMEX SPARK SUPPRESION SYSTEM.														