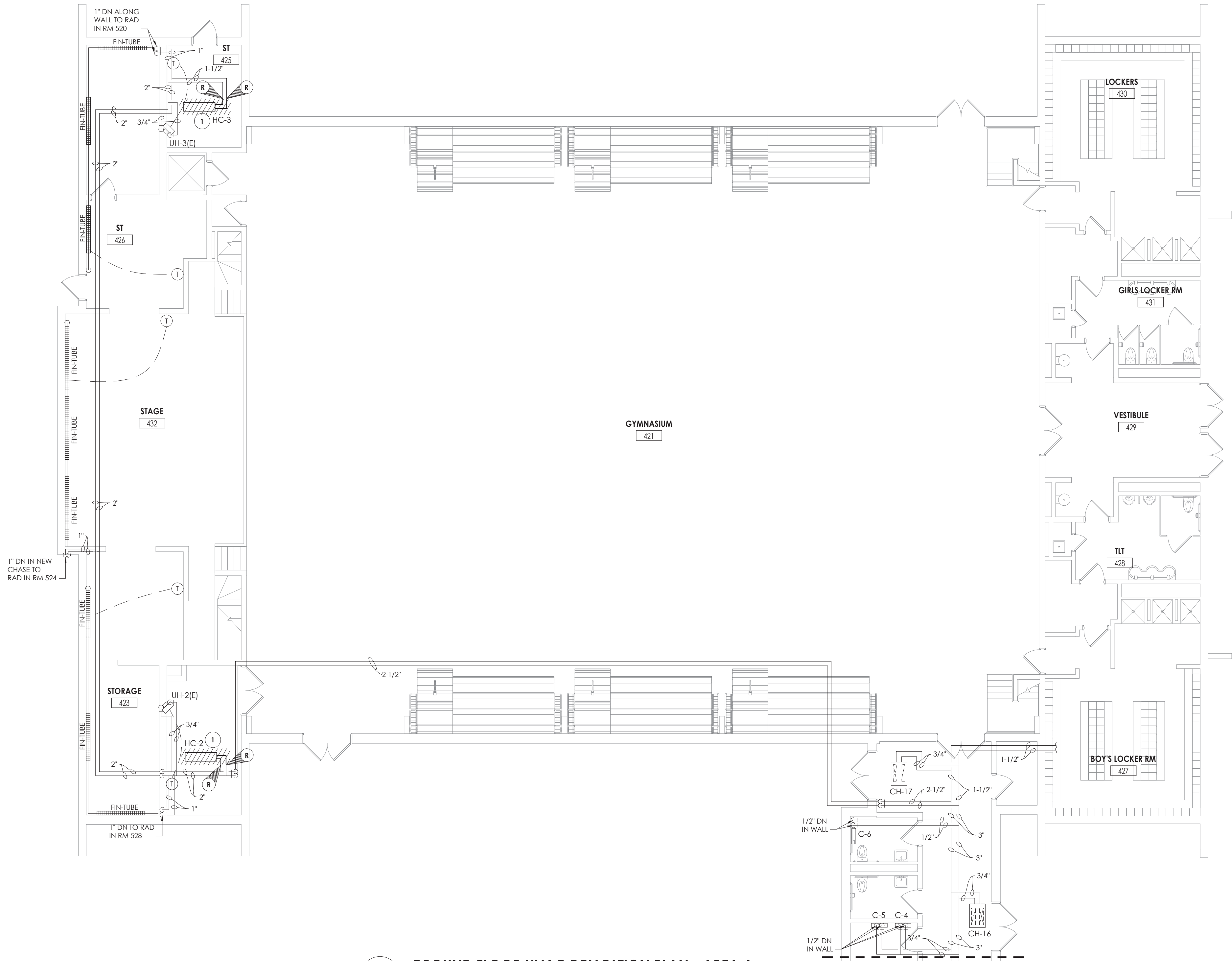


HVAC SYMBOLS LIST											
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AAD	AUTOMATIC AIR DAMPER		CONNECTION - TOP		DOUBLE WALL LINED DUCT		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		ELECTRIC/PNEUMATIC SWITCH OR RELAY		
ACC	AIR-COOLED CONDENSING UNIT		CONNECTION - BOTTOM		DUCT SECTION - SUPPLY		DUCT SECTION - RETURN/EXHAUST		PNEUMATIC/ELECTRIC SWITCH OR RELAY		
AD	ACCESS DOOR		DIRECTION OF FLOW		DUCT SECTION - RETURN/EXHAUST		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		CURRENT TRANSDUCER		
AFF	ABOVE FINISHED FLOOR		REDUCER		DUCT SECTION - ROUND DUCT IN INCHES		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		OPEN/CLOSED		
AHU	AIR HANDLING UNIT		CAP OR PLUG		DUCT SECTION - FLAT OVAL DUCT IN INCHES		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		START/STOP		
BBD	BOILER BLOW DOWN		ELBOW DOWN		ACOUSTIC THERMAL LINING		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		ENABLE/DISABLE		
BD	BACKDRAFT DAMPER		ELBOW UP		FLEXIBLE DUCTWORK		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		TEMPERATURE SENSOR (DUCT OR PIPE MOUNTED)		
CA	COMPRESSED AIR		TEE OUTLET - UP		FLEXIBLE CONNECTION		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		HUMIDITY SENSOR (DUCT MOUNTED)		
CD	COOLING COIL CONDENSATE DRAIN		TEE OUTLET - DOWN		UNION		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		FLOW TRANSMITTER		
CFM	CUBIC FEET PER MINUTE		GATE VALVE		FIRE DAMPER		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		PRESSURE TRANSMITTER		
CHWR	CHILLED WATER RETURN		BALL VALVE		SMOKE DAMPER		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		DIFFERENTIAL PRESSURE TRANSMITTER		
CHWS	CHILLED WATER SUPPLY		BALANCING VALVE		COMBINATION FIRE AND SMOKE DAMPER		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		ELECTRIC/PNEUMATIC TRANSDUCER		
CR	CONDENSER WATER RETURN		STRAINER		VOLUME DAMPER		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		ELECTRIC/ELECTRONIC TRANSDUCER		
CS	CONDENSER WATER SUPPLY		STRAINER WITH BLOW-DOWN		DAMPER CONTROL, PARALLEL BLADE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		DUCT SMOKE DETECTOR		
CW	DOMESTIC COLD WATER		BUTTERFLY VALVE		DAMPER CONTROL, OPPOSED BLADE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		SPACE THERMOSTAT		
D	DRAIN		CHECK VALVE		AUTOMATIC AIR DAMPER		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		SPACE HUMIDISTAT		
(E)	EXISTING		TRIPLE DUTY VALVE		BACK DRAFT DAMPER		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		WATER FLOW SENSOR		
EA	EXHAUST AIR		GAS COCK, PLUG VALVE		BLAST GATE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		PNEUMATIC ACTUATOR		
EC	ELECTRICAL CONTRACTOR		UNDERCUT DOOR 1"		LOUVERED DOOR W/ SQ. FT. OF FREE AREA		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		ELECTRIC ACTUATOR		
EF	EXHAUST FAN		AIR VENT - MANUAL		AIR VENT - AUTOMATIC		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		VARIABLE SPEED / FREQUENCY DRIVE		
ERHC	ELECTRIC REHEAT COIL		FLANGE		AIR DUCT (FIRST FIGURE IS DUCT WIDTH/TOP, SECOND FIGURE IS DUCT DEPTH)		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		COOLING COIL		
ETR	EXISTING TO REMAIN		CONTROL/SOLENOID VALVE, ELECTRIC 2-WAY		MULTI-BLADE AIR EXTRACTOR		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		HEATING COIL		
EUH	ELECTRIC UNIT HEATER		CONTROL VALVE, ELECTRIC 3-WAY		TURNING VANES		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		GAS FURNACE		
F&T	FLOAT AND THERMOSTATIC TRAP		CONTROL VALVE, PNEUMATIC 2-WAY		EXISTING WORK TO BE REMOVED (HATCHED)		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		HUMIDIFIER		
FCU	FAN-COIL UNIT		CONTROL VALVE, PNEUMATIC 3-WAY		POINT OF CONNECTION		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		ALARM		
FBM	FEET PER MINUTE		RELIEF / SAFETY VALVE		POINT OF DISCONNECTION		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		STATUS		
FT	FIN-TUBE		PRESSURE REDUCING VALVE		AIR FLOW SENSOR		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		FLOW SWITCH		
GC	GENERAL CONTRACTOR		VACUUM BREAKER		POINT OF CONNECTION		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		DIFFERENTIAL STATIC PRESSURE SWITCH		
GR	GLYCOL RETURN		FLEXIBLE PIPE CONNECTOR		AIR FLOW SENSOR		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		RELAY		
GS	GLYCOL SUPPLY		EXPANSION COMPENSATOR W/ GUIDES		FILTER		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		PRESSURE GAUGE		
HC	HVAC CONTRACTOR		EXPANSION JOINT		TRANSITION SQUARE TO ROUND		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		FREEZE-STAT		
HHWR	HEATING HOT WATER RETURN		PIPE ANCHOR		HUMIDIFIER DISPERSION TUBE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		DIGITAL INPUT (TO BUILDING MANAGEMENT SYSTEM)		
HHWS	HEATING HOT WATER SUPPLY		PIPE GUIDE		RISE IN DUCT		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		DIGITAL OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)		
HP	HEAT PUMP		THERMOSTATIC TRAP		DROP IN DUCT		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		ANALOG OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)		
HPC	HIGH PRESSURE CONDENSATE		FLOAT & THERMOSTATIC TRAP		SQUARE CEILING DIFFUSER (4 WAY)		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		ANALOG INPUT (TO BUILDING MANAGEMENT SYSTEM)		
HPS	HIGH PRESSURE STEAM		BUCKET TRAP		ROUND CEILING DIFFUSER		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		ELECTRICAL INTERFACE		
LF	LINEAR FOOTAGE OF FIN-TUBE RADIATION		THERMODYNAMIC TRAP		SQUARE OR RECTANGULAR CEILING GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		SPEED FEED BACK		
LPC	LOW PRESSURE CONDENSATE		THERMOMETER		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		END SWITCH		
LPG	LIQUEFIED PROPANE GAS		WELL		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		POSITION FEEDBACK		
LPS	LOW PRESSURE STEAM		PRESSURE GAUGE		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		TRAVERSE AVERAGING SENSOR		
MBH	1,000 BTU/HR		STEAM PRESSURE GAUGE WITH 1/4" NEEDLE VALVE		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		PROBE SENSOR		
MC	MECHANICAL CONTRACTOR		PRESSURE GAUGE WITH 1/4" NEEDLE VALVE		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		FREEZE STAT SENSOR		
MPC	MEDIUM PRESSURE CONDENSATE		PNEUMATIC (CONTROL) TUBING		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
MPS	MEDIUM PRESSURE STEAM		BUTTERFLY VALVE WITH PNEUMATIC AND MANUAL OPERATORS		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
MRD	MONOFLO FITTING DOWN - HHWR		PIPING		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
MSD	MONOFLO FITTING DOWN - HHWS		PIPING BELOW GRADE		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
MUW	MAKE-UP WATER		BASE MOUNTED PUMP		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
NC	NORMALLY CLOSED		IN-LINE PUMP		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
NG	NATURAL GAS		AIR TERMINAL UNIT WITH REHEAT COIL AND SOUND ATTENUATOR		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
NO	NORMALLY OPEN		AIR TERMINAL UNIT		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
NTS	NOT TO SCALE		AIR TERMINAL UNIT WITH SOUND ATTENUATOR		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
OA	OUTSIDE AIR		AIR TERMINAL UNIT WITH REHEAT COIL		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
PC	PLUMBING CONTRACTOR		AIR TERMINAL UNIT		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
PD	PUMP DISCHARGE		AIR TERMINAL UNIT		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
PHWR	PRIMARY HEATING HOT WATER RETURN		AIR TERMINAL UNIT		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
PHWS	PRIMARY HEATING HOT WATER SUPPLY		AIR TERMINAL UNIT		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
RA	RETURN AIR		AIR TERMINAL UNIT		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
RD	REFRIGERANT DISCHARGE		AIR TERMINAL UNIT		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
RHC	HOT WATER REHEAT COIL		AIR TERMINAL UNIT		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
RL	REFRIGERANT LIQUID PIPE		AIR TERMINAL UNIT		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
RSL	REFRIGERANT SUCTION PIPE		AIR TERMINAL UNIT		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
RTU	ROOFTOP UNIT		AIR TERMINAL UNIT		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
RV	ROOF VENT		AIR TERMINAL UNIT		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
SA	SUPPLY AIR		AIR TERMINAL UNIT		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
SHWR	SECONDARY HEATING HOT WATER RETURN		AIR TERMINAL UNIT		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
SHWS	SECONDARY HEATING HOT WATER SUPPLY		AIR TERMINAL UNIT		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS				
SSI	SPLIT SYSTEM INDOOR SECTION (EVAPORATOR SECTION)										

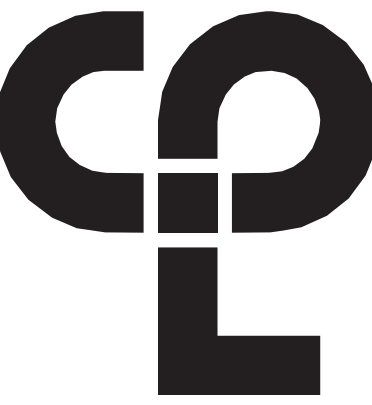
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H100A
GROUND FLOOR HVAC DEMOLITION PLAN - AREA A
1/8" = 1'-0"

KEY NOTES

- 1 REMOVE EXISTING HEATING AND VENTILATING UNIT, ASSOCIATED HHWS/R PIPING, DUCTWORK, SUPPORTS AND GRILLES, SALVAGE CONTROLS FOR RECONNECTION.



CPL | Architecture Engineering Planning
50 FRONT ST, SUITE 202
NEWBURGH, NY 12550
CPLteam.com

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

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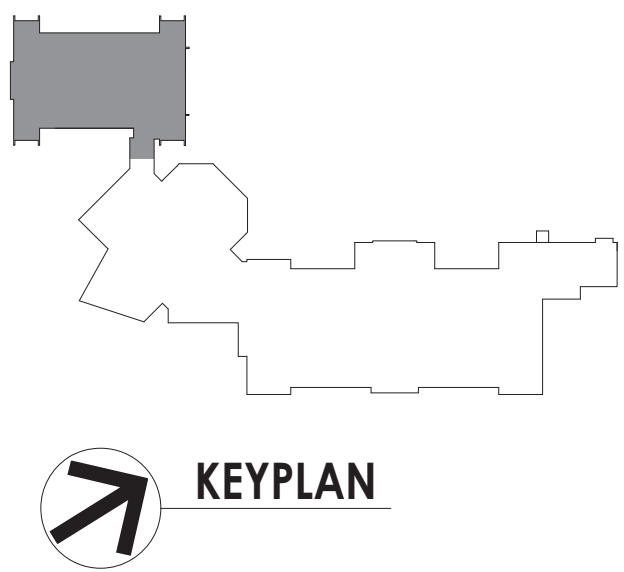
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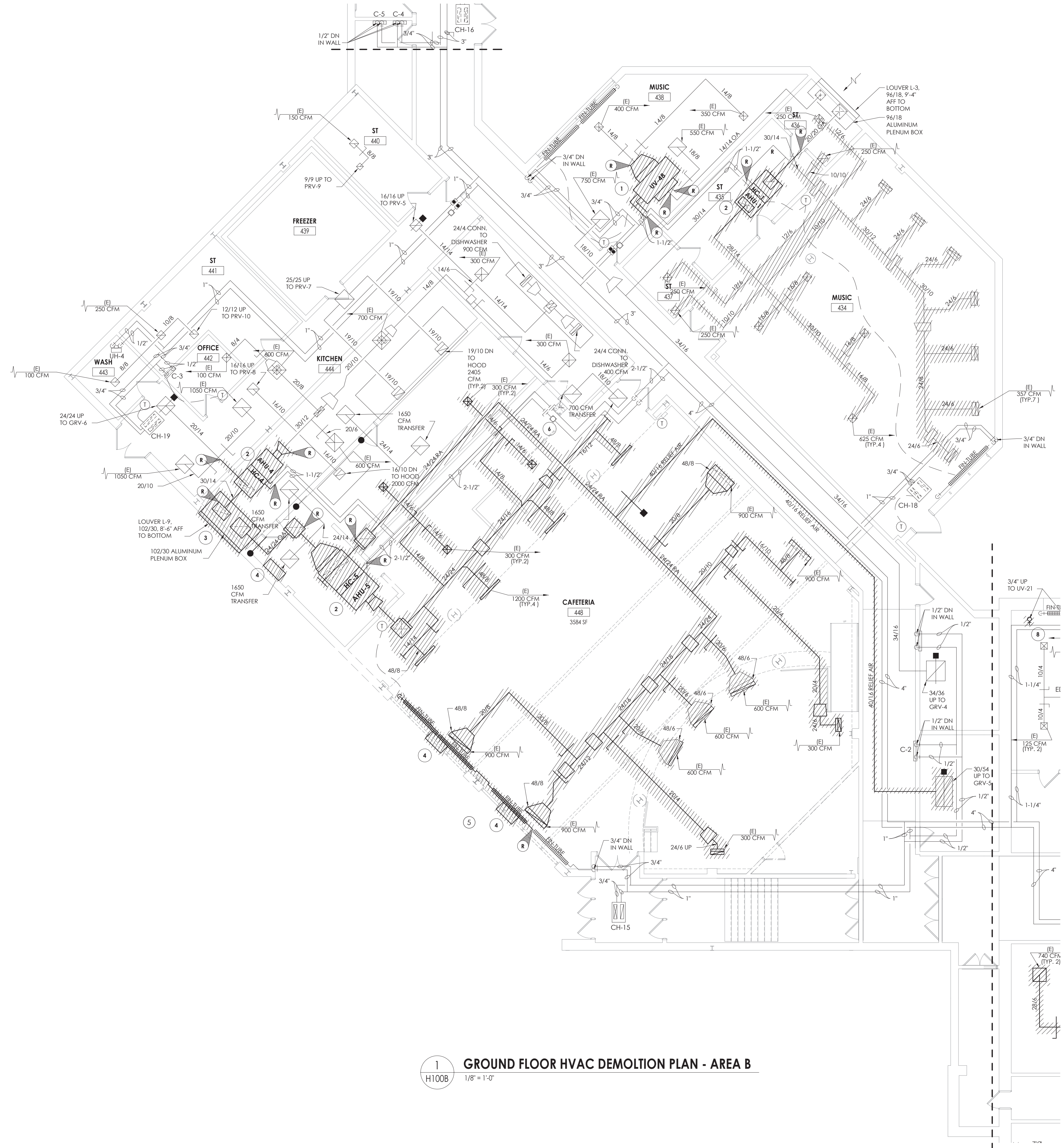
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JJM
Drawing Title
GROUND FLOOR HVAC
DEMOLITION PLAN - AREA A

Drawing Number
HMS
H100A



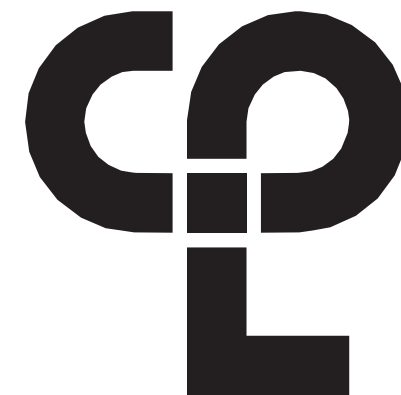
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1 GROUND FLOOR HVAC DEMOLITION PLAN - AREA B
H100B 1/8" = 1'-0"

KEY NOTES

- 1 REMOVE EXISTING UNIT VENTILATOR, SALVAGE ASSOCIATED DUCTWORK, OUTDOOR AIR LOUVER AND CONTROL WIRING FOR NEW UNIT. PREPARE HHWS/R PIPING FOR RECONNECTION.
- 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 FINITE AND ENCLOSURE TO POINTS INDICATED. PREPARE PIPING FOR NEW CONNECTION
- 6 RELOCATE EXISTING PIPING TO ALLOW FOR INSTALTION OF NEW DIVIDING WALL.



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SCHOOL DISTRICT**
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**PHASE 3: HERITAGE MIDDLE
SCHOOL 2019 CAPITAL
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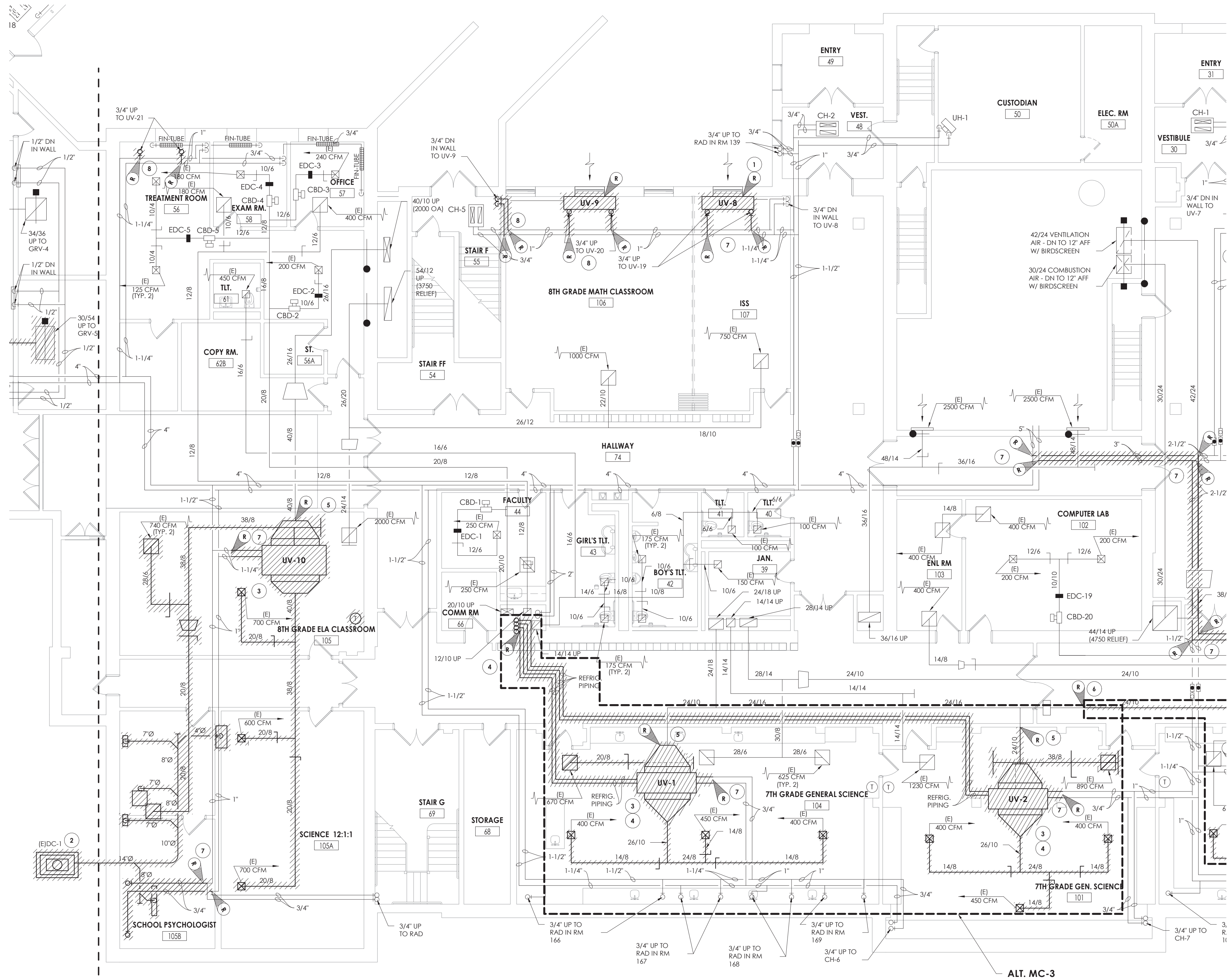
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Drawing Title
GROUND FLOOR HVAC
DEMOLITION PLAN - AREA B

Drawing Number

HMS
H100B





1
H100C
GROUND FLOOR HVAC DEMOLITION PLAN - AREA C
1/8" = 1'-0"

KEY NOTES

- 1 REMOVE EXISTING UNIT VENTILATOR, SALVAGE OUTDOOR AIR LOUVER AND CONTROL WIRING.
- 2 REMOVE EXISTING DUST COLLECTOR, CONTROLS, HOUSEKEEPING PAD, AND DUCTWORK TO POINT INDICATED.
- 3 REMOVE EXISTING UNIT VENTILATOR AND ASSOCIATED DUCTWORK TO POINT INDICATED. SALVAGE CONTROLS AND CONTROL WIRING FOR NEW UNIT.
- 4 REMOVE ALL RSL/RLL PIPING FROM UNIT VENTILATOR TO CONDENSING UNIT ON GRADE. PRIOR TO REMOVAL, DRAIN ALL PIPING AND DISPOSE OF ALL REFRIGERANT PER THE LATEST ADAPTED RULES AND REGULATIONS BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE AN EPA APPROVED AGENCY OR ORGANIZATION.
- 5 REMOVE DUCTWORK TO POINT INDICATED. PREPARE DUCTWORK FOR NEW CONNECTION.
- 6 REMOVE OUTDOOR AIR DUCT TO POINT INDICATED AND CAP MAIN.
- 7 REMOVE PIPING TO POINT INDICATED. PREPARE FOR RECONNECTION.
- 8 REMOVE PIPING TO POINT INDICATED AND CAP.

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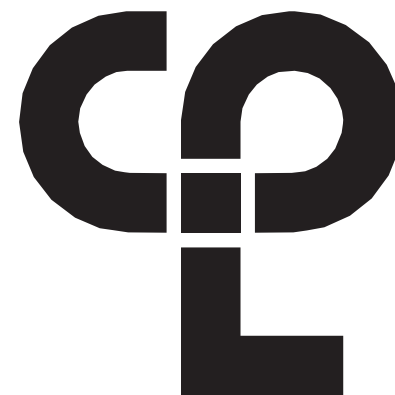
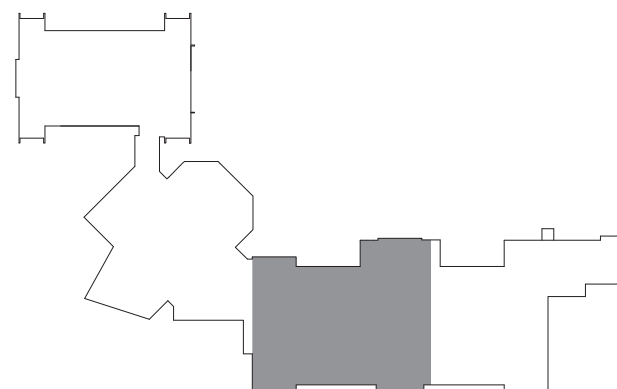
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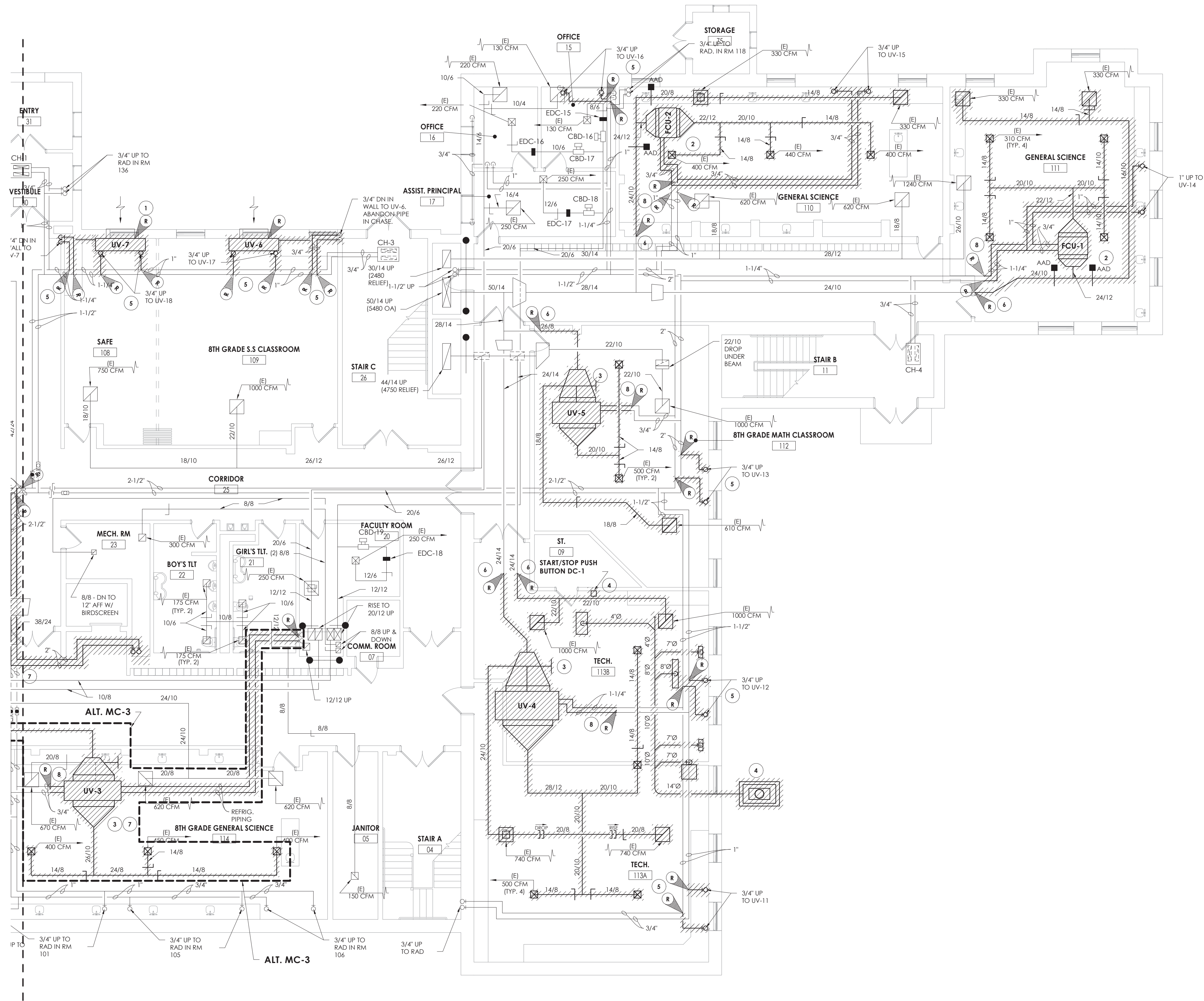
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Drawing Title
GROUND FLOOR HVAC
DEMOLITION PLAN - AREA C

Drawing Number

HMS
H100C



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NEWBURGH, NY 12550
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1 GROUND FLOOR HVAC DEMOLITION PLAN - AREA D
H100D 1/8" = 1'-0"

KEY NOTES

- 1 REMOVE EXISTING UNIT VENTILATOR, SAVE OUTDOOR AIR LOUVER AND CONTROL. SAVE AND PREPARE TO EXTEND WIRING.
- 2 REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED DUCTWORK TO POINT INDICATED. SAVE CONTROLS AND PREPARE HHWS/R PIPING AND DUCTWORK FOR RECONNECTION.
- 3 REMOVE EXISTING UNIT VENTILATOR AND ASSOCIATED DUCTWORK TO POINTS INDICATED. SAVE CONTROLS AND CONTROL WIRING FOR NEW UNIT. PREPARE HHWS/R PIPING FOR RECONNECTION.
- 4 REMOVE EXISTING DUST COLLECTOR, CONTROLS, AND DUCTWORK. PREPARE FOR NEW.
- 5 REMOVE PIPING TO MAIN CAP.
- 6 REMOVE DUCTWORK TO POINT INDICATED AND PREPARE DUCTWORK FOR NEW CONNECTION.
- 7 REMOVE ALL RSL/RL PIPING FROM UNIT VENTILATOR TO CONDENSING UNIT ON ROOF. PRIOR TO REMOVAL, DRAIN ALL PIPING AND DISPOSE OF ALL REFRIGERANT PER THE LATEST ADAPTED RULES AND REGULATIONS BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE AN EPA APPROVED AGENCY OR ORGANIZATION.
- 8 REMOVE PIPING TO POINT INDICATED AND PREPARE FOR NEW CONNECTION.

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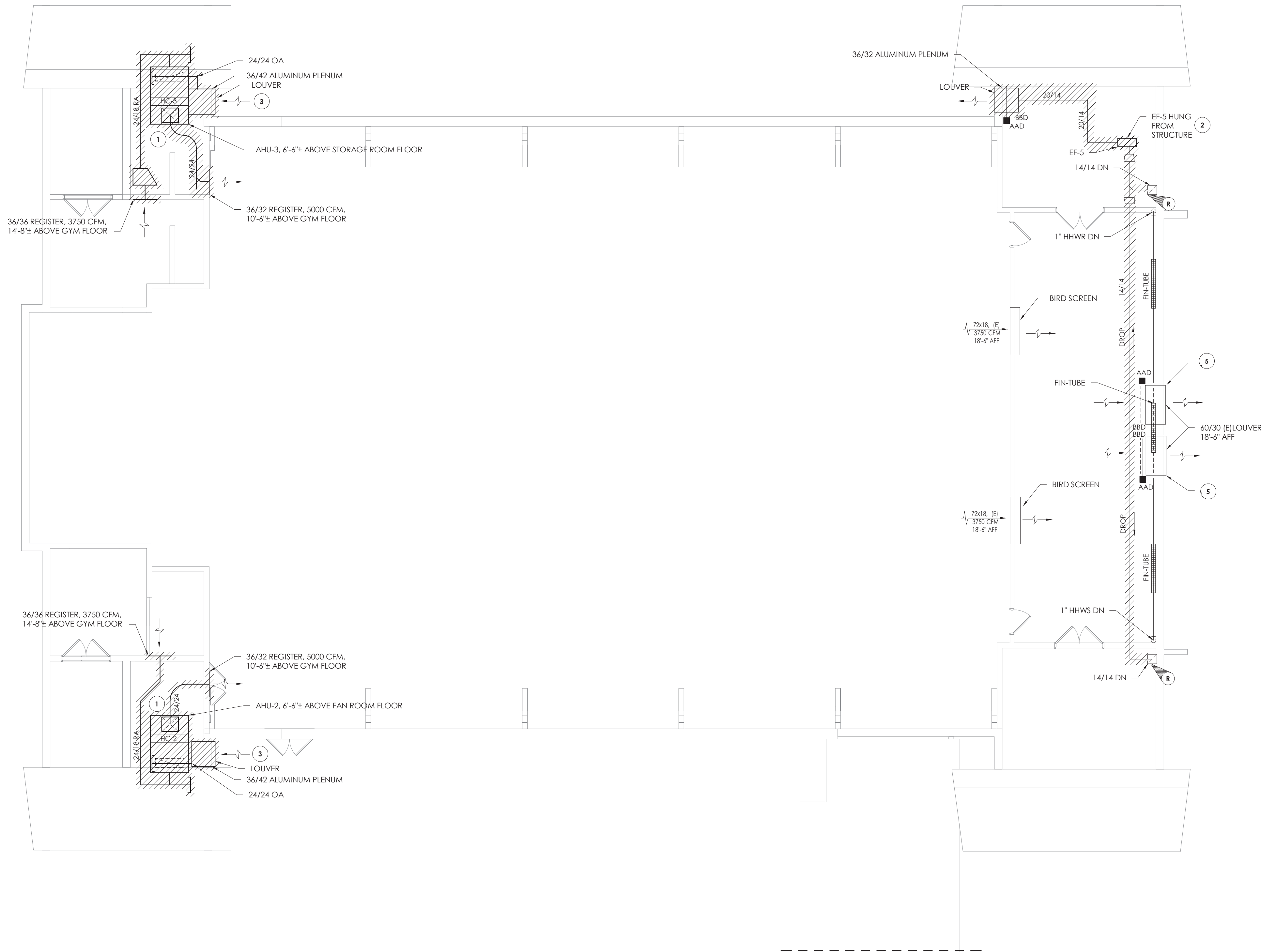
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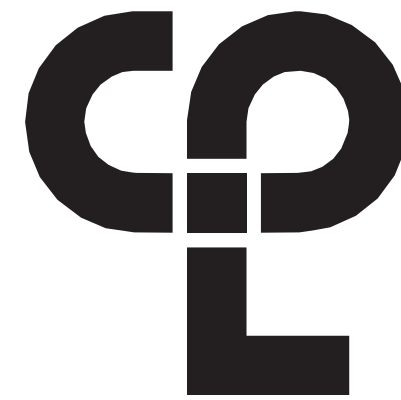
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H101A

FIRST FLOOR HVAC DEMOLITION PLAN - AREA A

1/8" = 1'-0"

KEY NOTES

- 1 REMOVE EXISTING AIR HANDLER, DUCTWORK, GRILLES, SUPPORTS, PIPING AND CONTROLS. SALVAGE CONTROLS FOR RE-USE.
- 2 REMOVE EXISTING EXHAUST FAN AND CONTROLS. PREPARE DUCTWORK FOR NEW CONNECTION, SALVAGE CONTROLS FOR RE-USE.
- 3 PREPARE EXISTING LOUVER FOR RECONNECTION.
- 4 PREPARE EXISTING OPENING FOR NEW DUCTWORK. REMOVE LOUVER.
- 5 DISCONNECT EXISTING CONTROLS. CLOSE DAMPERS AND ABANDON IN PLACE.



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SHEET INFORMATION

Issued
09/09/2021
Scale
As indicated

Project Status

CONSTRUCTION DOCUMENTS

Drawn By
NRH

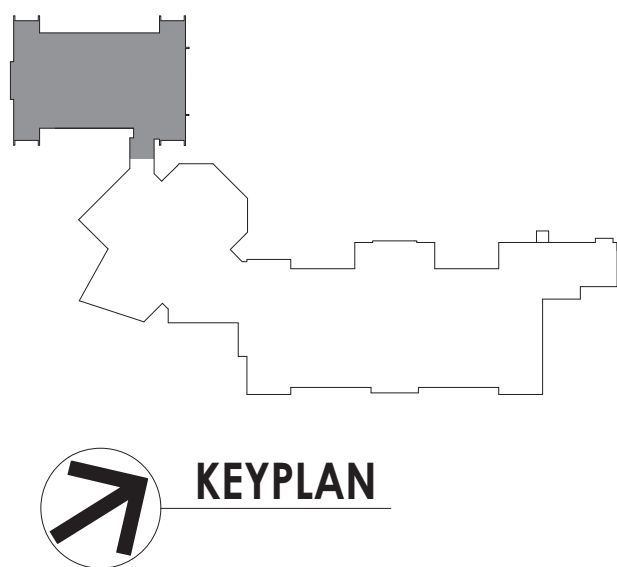
Checked By
JJM

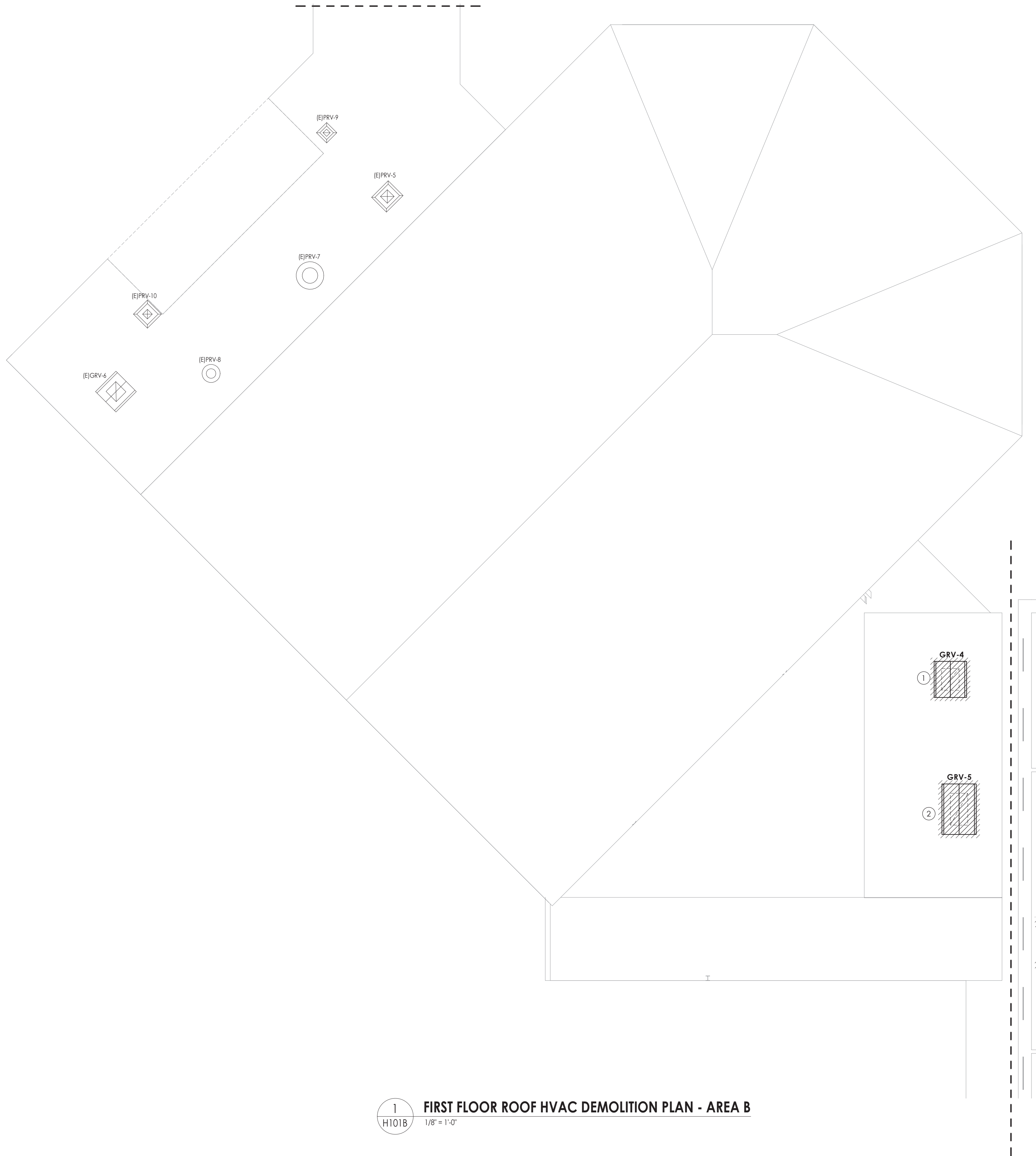
Drawing Title

FIRST FLOOR HVAC DEMOLITION
PLAN - AREA A

Drawing Number

HMS
H101A





1
H101B
1/8" = 1'-0"

FIRST FLOOR ROOF HVAC DEMOLITION PLAN - AREA B

- KEY NOTES**
- 1 REMOVE EXISTING 34X36 GRAVITY RELIEF. PREPARE CURB FOR NEW FAN.
 - 2 REMOVE EXISTING 30X54 GRAVITY RELIEF IN ITS ENTIRETY. REMOVE CURB AND PATCH. PATCH ROOF AND DECK TO MATCH EXISTING CONSTRUCTION. COORDINATE WITH THE OWNER AND EXISTING ROOFING MANUFACTURER TO MAINTAIN WARRANTY ON EXISTING ROOF. ALL WORK TO BE PER NRCA RECOMMENDATION

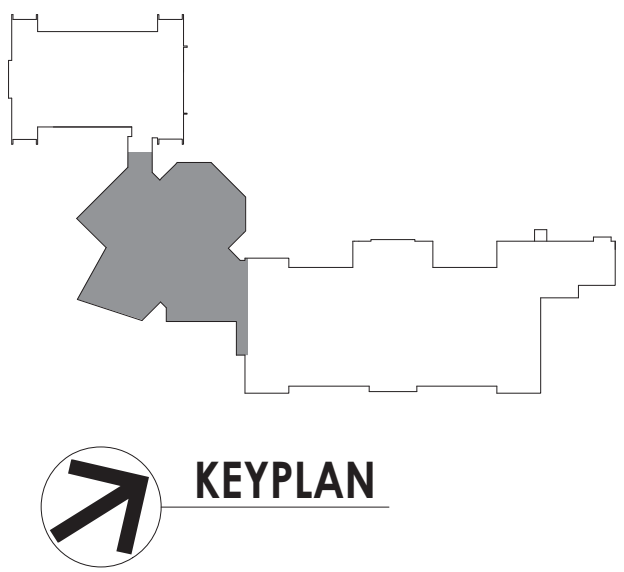
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NEWBURGH, NY 12550
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PROJECT INFORMATION		
Project Number	13940.18	
Client Name	NEWBURGH ENLARGED CITY SCHOOL DISTRICT	
Project Name	PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT	
Project Address	405 Union Avenue, New Windsor, NY 12553	
SED Number	44-16-00-01-0-039-011	
PROJECT ISSUE SCHEDULE		
No.	Date	Description

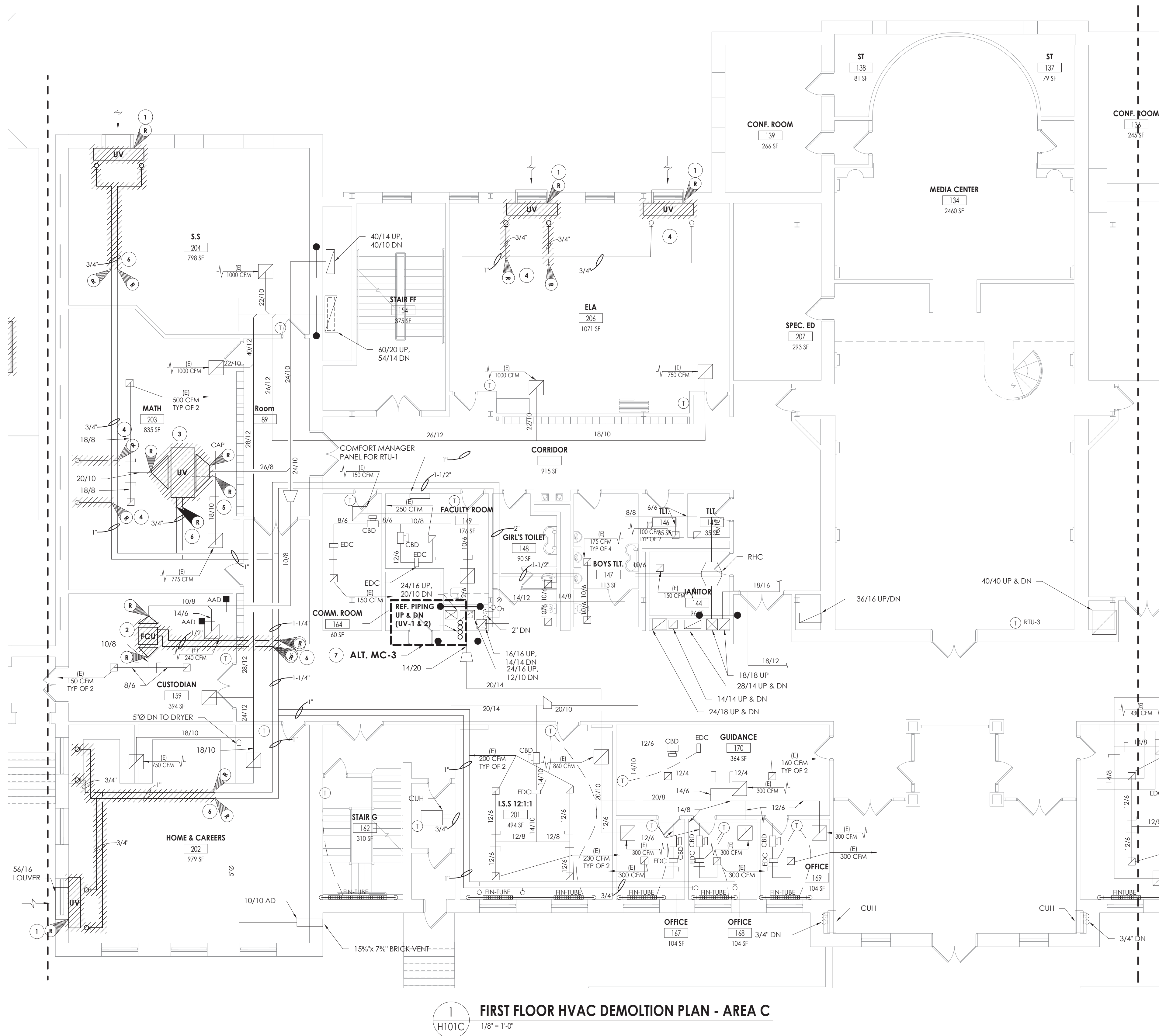
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SHEET INFORMATION		
Issued	09/09/2021	Scale As indicated
Project Status	CONSTRUCTION DOCUMENTS	
Drawn By	NRH	Checked By JJM
Drawing Title	FIRST FLOOR ROOF HVAC DEMOLITION PLAN - AREA B	
Drawing Number	HMS H101B	



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KEY NOTES

- 1 REMOVE EXISTING UNIT VENTILATOR, OUTDOOR AIR LOUVER AND CONTROL WIRING. SAVE AND PREPARE TO EXTEND WIRING., PATCH AND REPAIR WALL OPENING.
- 2 REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED DUCTWORK TO POINT INDICATED. SAVE CONTROLS AND PREPARE HHWS/R PIPING AND DUCTWORK FOR RECONNECTION.
- 3 REMOVE EXISTING UNIT VENTILATOR AND ASSOCIATED DUCTWORK TO POINT INDICATED. SAVE CONTROLS AND CONTROL WIRING FOR NEW UNIT. PREPARE HHWS/R PIPING FOR RECONNECTION.
- 4 REMOVE PIPING TO MAIN CAP.
- 5 REMOVE DUCTWORK TO POINT INDICATED AND PREPARE DUCTWORK FOR NEW CONNECTION.
- 6 REMOVE PIPING TO POINT INDICATED AND PREPARE FOR NEW CONNECTION.
- 7 REMOVE EXISTING REFRIGERANT LINES IN ENTIRENTY.
- 8 REMOVE AND SALVAGE FOR REINSTALLATION.

PROJECT INFORMATION

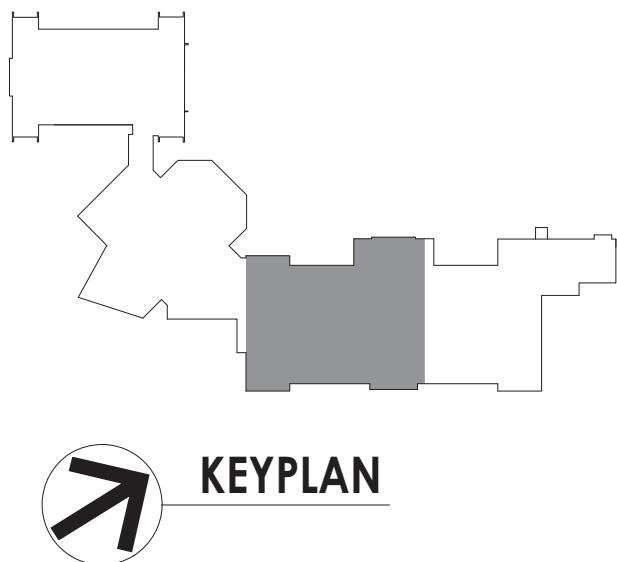
Project Number
13940.18
Client Name
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
Project Name
PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT
Project Address
405 Union Avenue, New Windsor, NY 12553
S&B Number
44-16-00-01-0-039-011
PROJECT ISSUE SCHEDULE
No. Date Description

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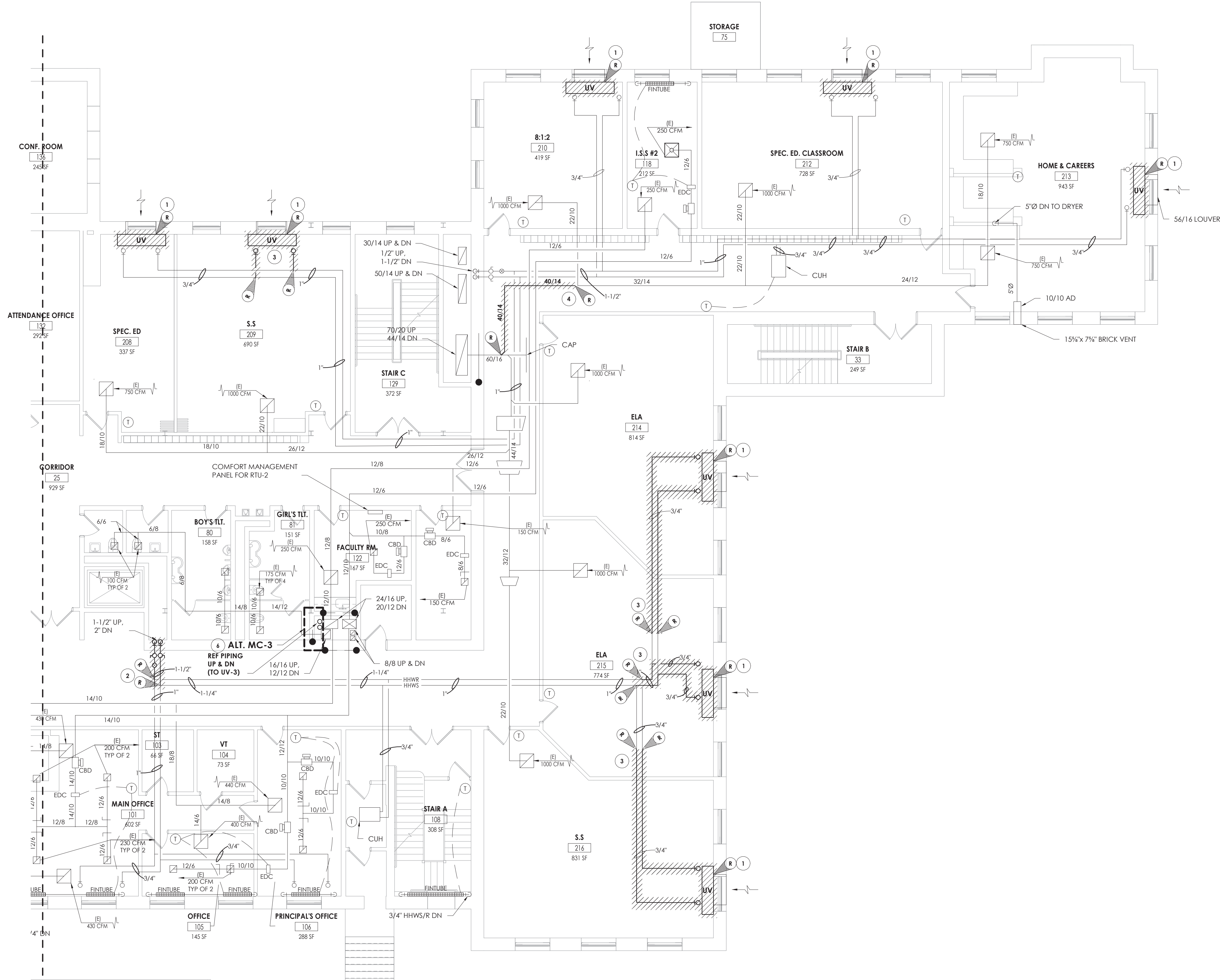
SHEET INFORMATION

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

HMS
H101C



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1 FIRST FLOOR HVAC DEMOLITION PLAN - AREA D
H101D 1/8" = 1'-0"

KEY NOTES

- 1 REMOVE EXISTING UNIT VENTILATOR, OUTDOOR AIR LOUVER AND CONTROL WIRING. PATCH AND REPAIR WALL OPENING.
- 2 REMOVE PIPING TO MAIN CAP.
- 3 REMOVE PIPING TO POINT INDICATED AND PREPARE FOR NEW CONNECTION.
- 4 REMOVE 40X14 DUCT AND INSULATION FROM POINT INDICATED. CAP AND SEAL MAIN. PREPARE BRANCH DUCTWORK FOR NEW CONNECTION.
- 5 REMOVE 30X14 RELIEF AIR RISER FROM THIS POINT TO RELIEF PLENUM IN ATTIC.
- 6 REMOVE EXISTING REFRIGERANT PIPING IN ITS ENTIRETY.

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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

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SHEET INFORMATION

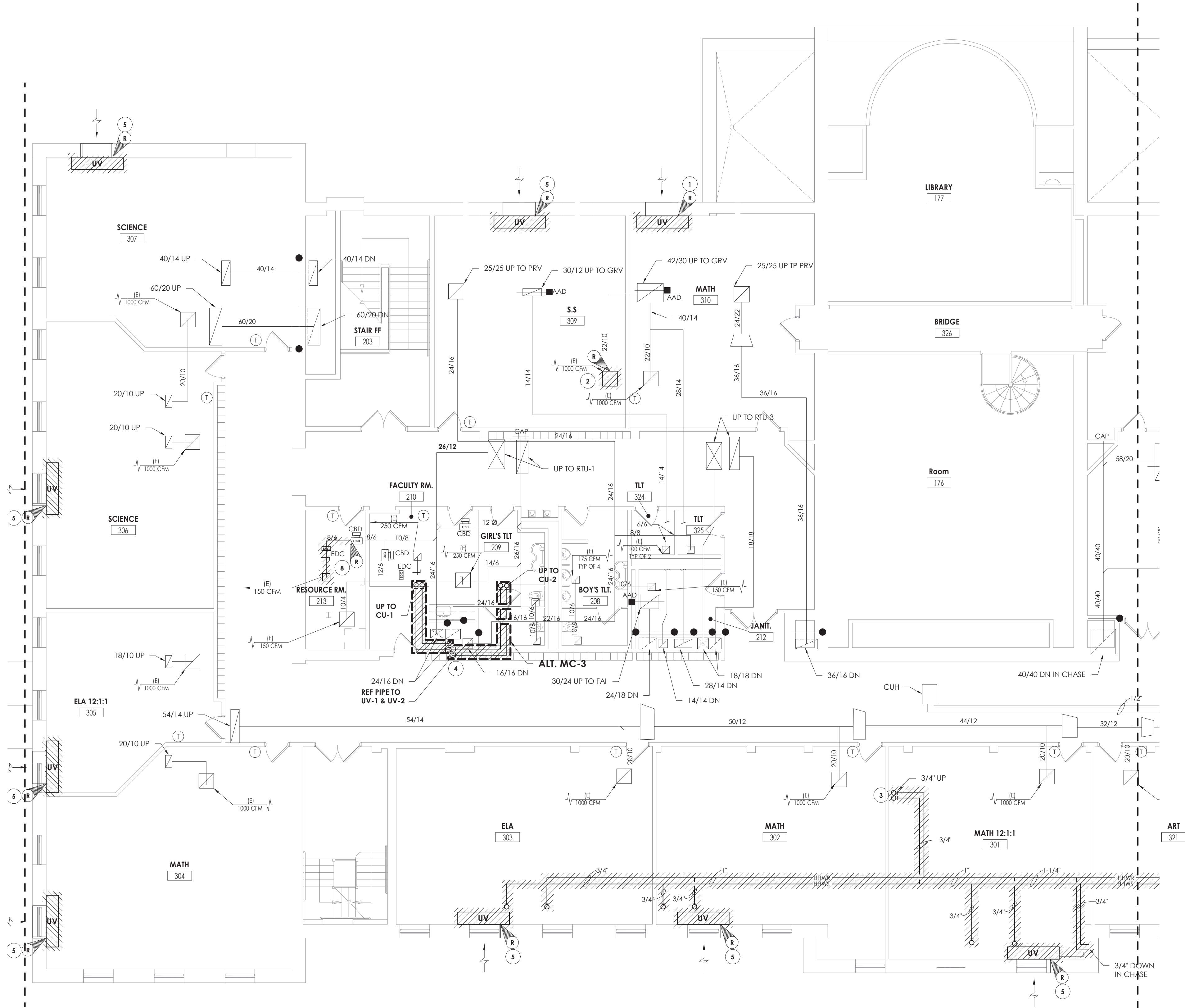
Issued
09/09/2021
Project Status
CONSTRUCTION DOCUMENTS
Drawn By
NRH
Drawing Title
FIRST FLOOR HVAC DEMOLITION PLAN - AREA D

Drawing Number

HMS
H101D



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

- KEY NOTES**
- 1 REMOVE EXISTING UNIT VENTILATOR, OUTDOOR AIR LOUVER AND CONTROL WIRING. PATCH AND REPAIR OPENING.
 - 2 REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED DUCTWORK TO POINT INDICATED. SAVE CONTROLS AND PREPARE HHWS/R PIPING AND DUCTWORK FOR RECONNECTION.
 - 3 REMOVE EXISTING UNIT VENTILATOR AND ASSOCIATED DUCTWORK TO POINT INDICATED. SAVE CONTROLS AND PREPARE HHWS/R PIPING FOR RECONNECTION.
 - 4 REMOVE PIPING TO MAIN CAP.
 - 5 REMOVE DUCTWORK TO POINT INDICATED AND PREPARE DUCTWORK FOR NEW CONNECTION.
 - 6 REMOVE PIPING TO POINT INDICATED AND PREPARE FOR NEW CONNECTION.
 - 7 REMOVE EXISTING REFRIGERANT LINES IN ENTIREITY.
 - 8

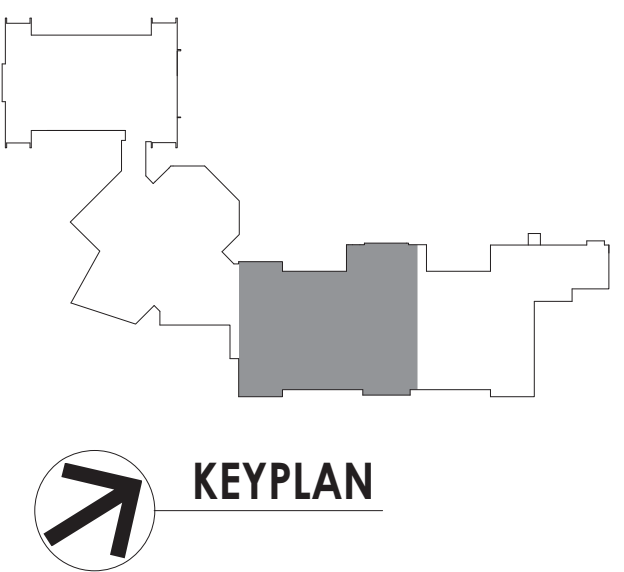
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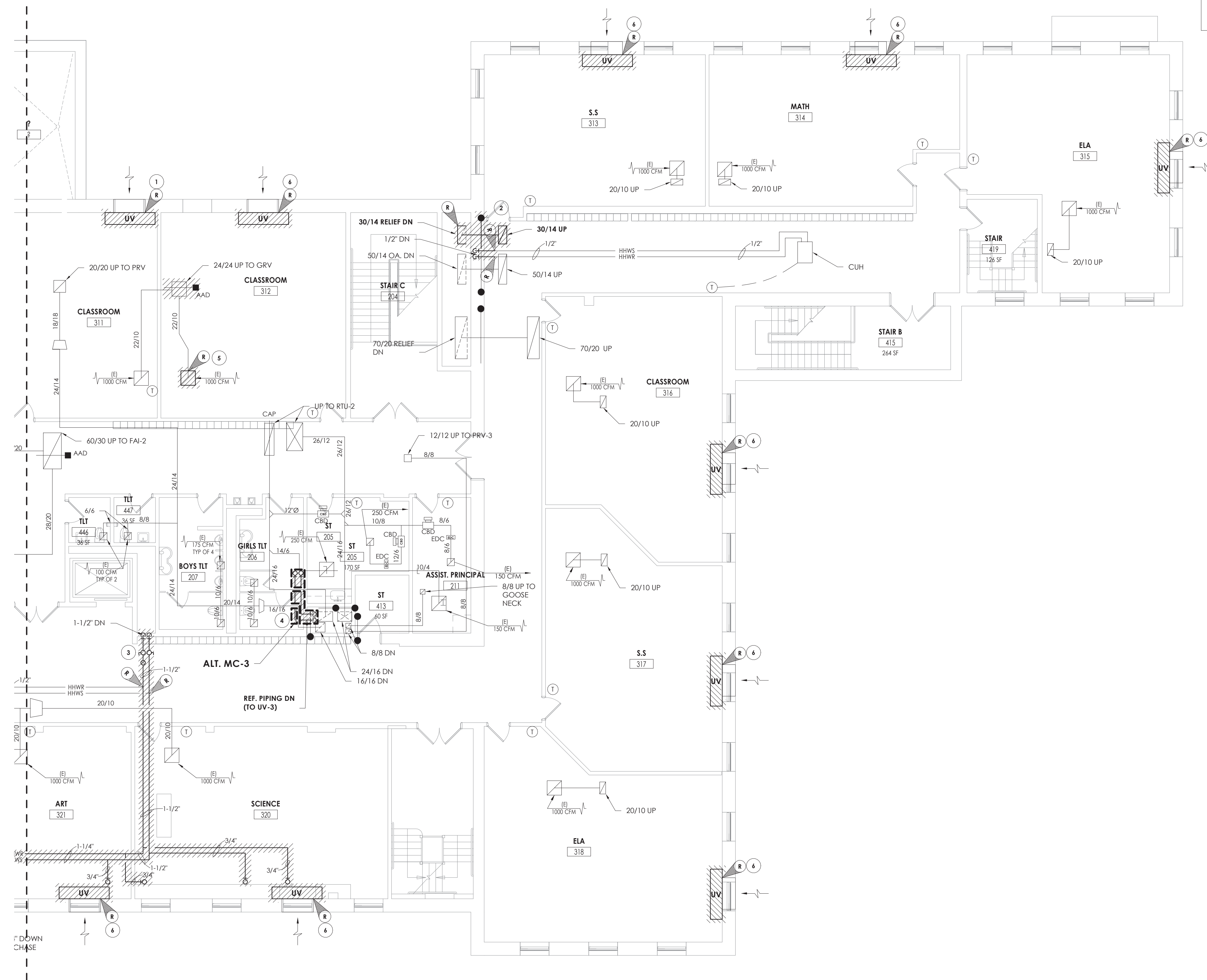
PROJECT INFORMATION		
Project Number	13940.18	
Client Name	NEWBURGH ENLARGED CITY SCHOOL DISTRICT	
Project Name	PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT	
Project Address	405 Union Avenue, New Windsor, NY 12553	
SED Number	44-16-00-01-0-039-011	
PROJECT ISSUE SCHEDULE		
No.	Date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

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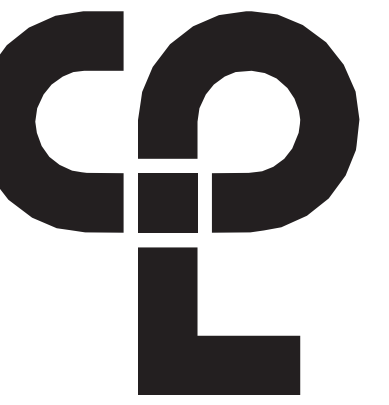
SHEET INFORMATION		
Issued	09/09/2021	Scale As indicated
Project Status	CONSTRUCTION DOCUMENTS	
Drawn By	NRH	Checked By JJM
Drawing Title	SECOND FLOOR HVAC DEMOLITION PLAN - AREA C	

Drawing Number
HMS
H102C





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|--|-----------|
| | KEY NOTES |
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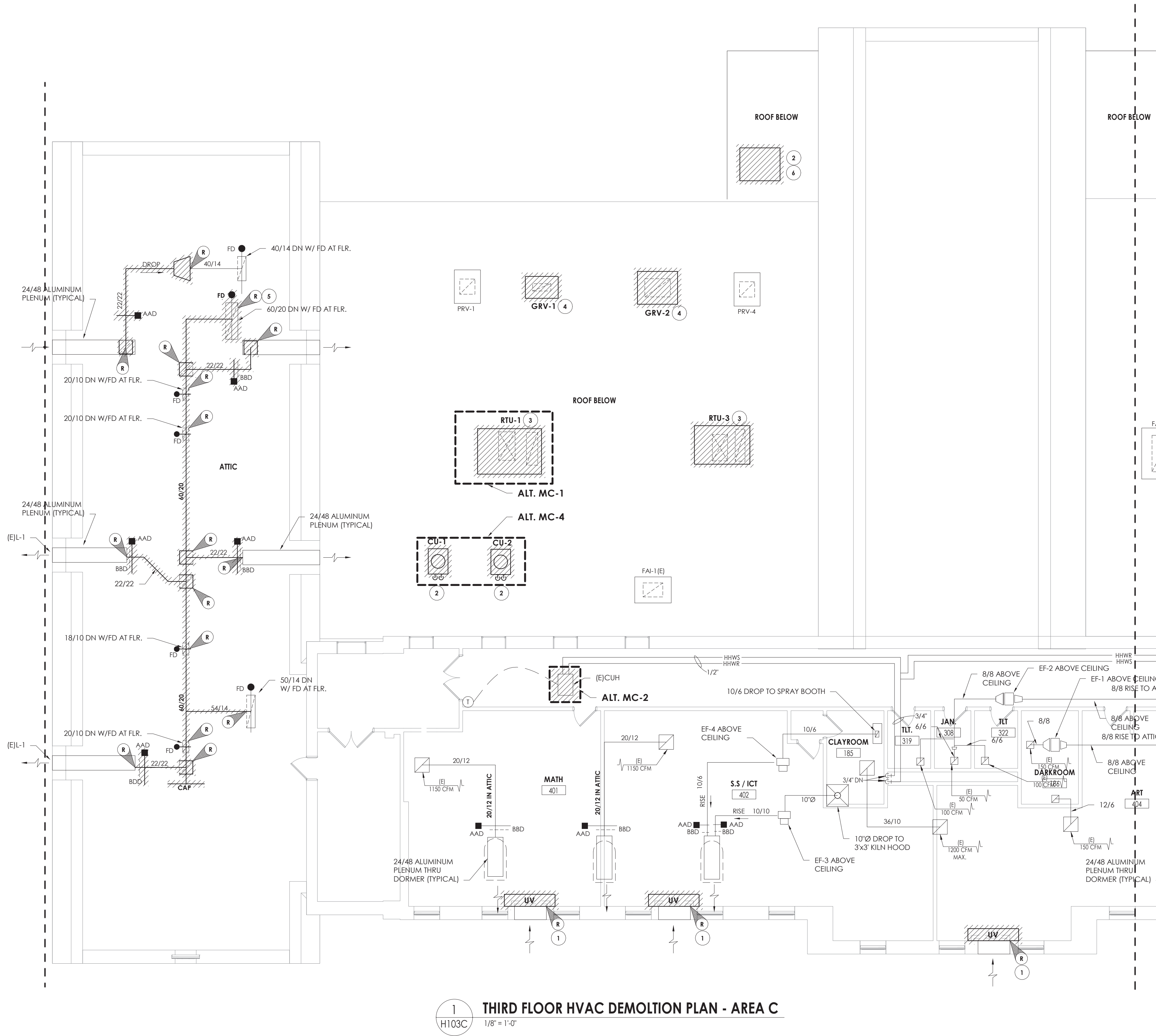


PROJECT INFORMATION

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1 THIRD FLOOR HVAC DEMOLITION PLAN - AREA C
H103C 1/8" = 1'-0"

GENERAL NOTES

1. PRIOR TO CLOSEOUT, SUBMIT ROOFING MAUFACTURER'S WRITTEN APPROVAL OF ALL ROOFING WORK.

KEY NOTES

- 1 REMOVE EXISTING UNIT VENTILATOR, SAVE OUTDOOR AIR LOUVER AND CONTROL WIRING FOR NEW UNIT.
- 2 REMOVE EXISTING CONDENSING UNIT. PRIOR TO REMOVAL, DRAIN ALL PIPING AND DISPOSE OF ALL REFRIGERANT PER THE LATEST ADAPTED RULES AND REGULATIONS BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE AN EPA APPROVED AGENCY OR ORGANIZATION.
- 3 REMOVE EXISTING ROOF TOP UNIT (RTU) AND CURB IN ITS ENTIRETY. SAVE CONTROLS CONNECTION. PREPARE FOR NEW FAN.
- 4 REMOVE EXISTING RELIEF HOOD. PREPARE CURB FOR NEW FAN.
- 5 REMOVE RELIEF AIR DUCT MAIN. DISCONNECT AT POINTS INDICATED. PREPARE REMAINING DUCTS FOR RE-CONNECTION.
- 6 REMOVE EXISTING SPLIT SYSTEM COMPRESSOR ON ROOF. REMOVE ALL ASSOCIATED PIPING AND BRACING TO ALLOW FOR ROOF WORK. SAVE ALL EQUIPMENT FOR REINSTALLATION.

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

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SHEET INFORMATION

Issued
09/09/2021
Scale
As indicated

Project Status
CONSTRUCTION DOCUMENTS

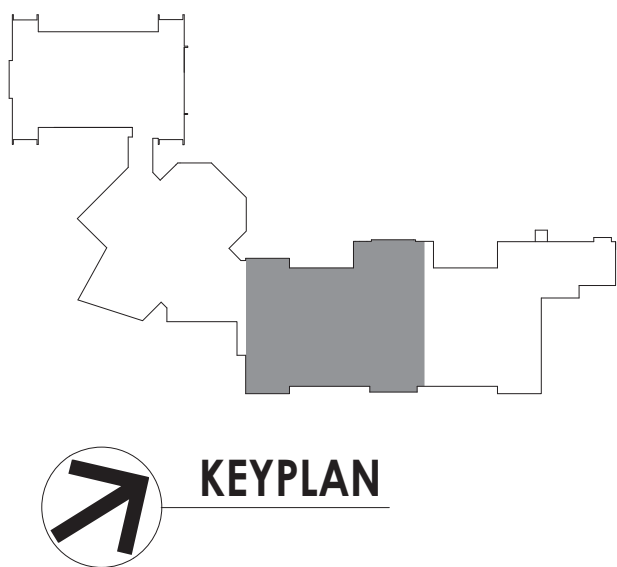
Drawn By
NRH
Checked By
JJM

Drawing Title

THIRD FLOOR HVAC DEMOLITION
PLAN - AREA C

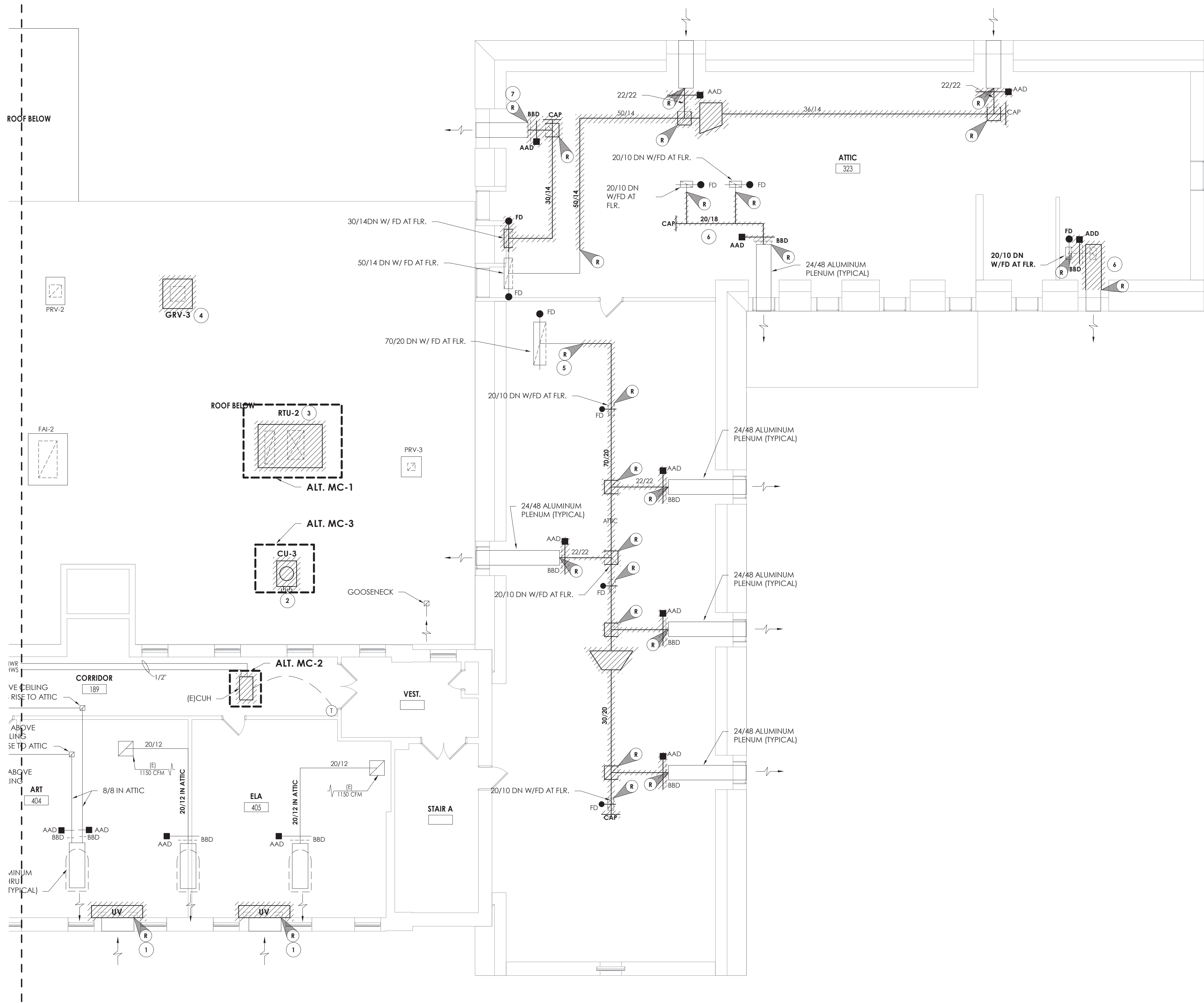
Drawing Number

HMS
H103C



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GENERAL NOTES

1. PRIOR TO CLOSEOUT, SUBMIT ROOFING MAUFACTURER'S WRITTEN APPROVAL OF ALL ROOFING WORK.

KEY NOTES

- 1 REMOVE EXISTING UNIT VENTILATOR, SAVE OUTDOOR AIR LOUVER AND CONTROL WIRING FOR NEW UNIT.
- 2 REMOVE EXISTING CONDENSING UNIT. PRIOR TO REMOVAL, DRAIN ALL PIPING AND DISPOSE OF ALL REFRIGERANT PER THE LATEST ADAPTED RULES AND REGULATIONS BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE AN EPA APPROVED AGENCY OR ORGANIZATION.
- 3 REMOVE EXISTING ROOF TOP UNIT (RTU) IN ITS ENTIRETY. SAVE CONTROLS CONNECTION. PREPARE FOR NEW CURB.
- 4 REMOVE EXISTING RELIEF HOOD. PREPARE ROOF FOR NEW FAN AND CURB.
- 5 REMOVE RELIEF AIR DUCT MAIN. DISCONNECT AT POINTS INDICATED. PREPARE REMAINING DUCTS FOR RE-CONNECTION.
- 6 REMOVE DUCTWORK TO POINTS INDICATED. PREPARE DUCT FOR NEW FAN AND RECONNECTION.
- 7 REMOVE 30x14 RELIEF AIR RISER FROM THIS POINT TO RELIEF PLENUM IN ATTIC.

PROJECT INFORMATION

Project Number
13940.18

Client Name
NEWBURGH ENLARGED CITY SCHOOL DISTRICT

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

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405 Union Avenue, New Windsor, NY 12553

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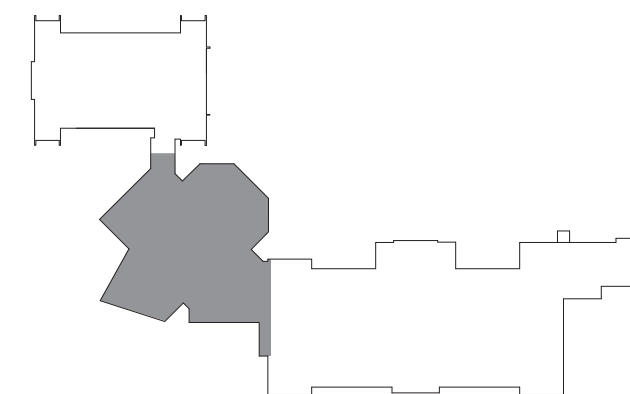
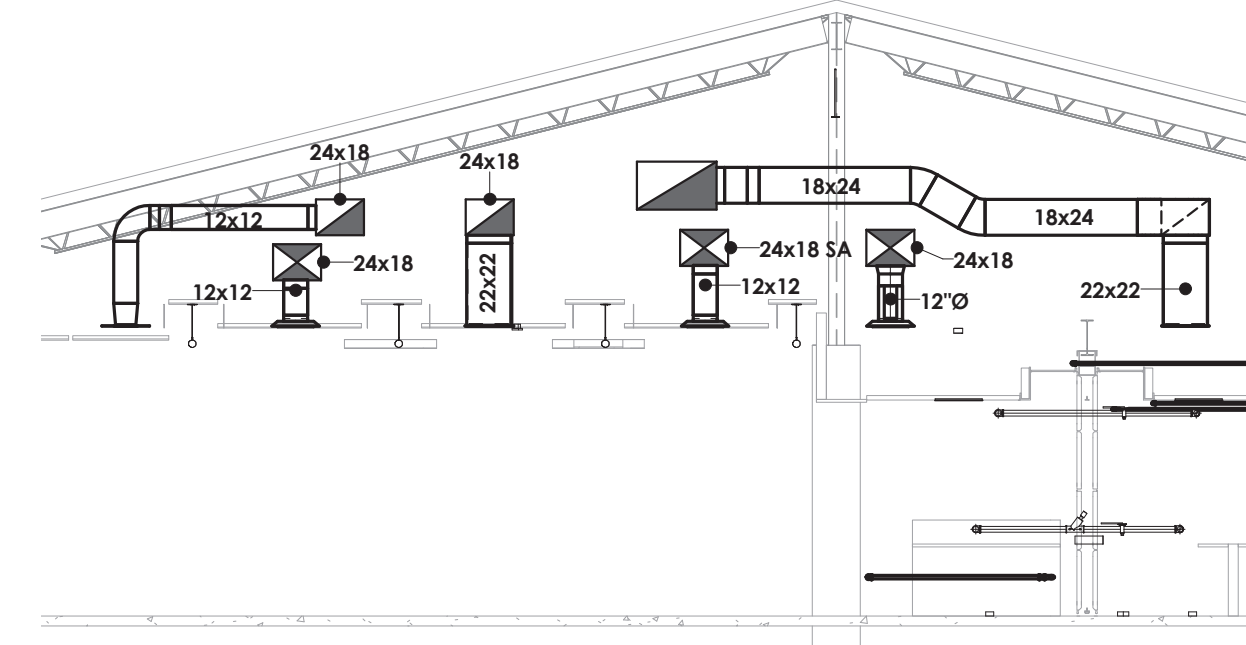
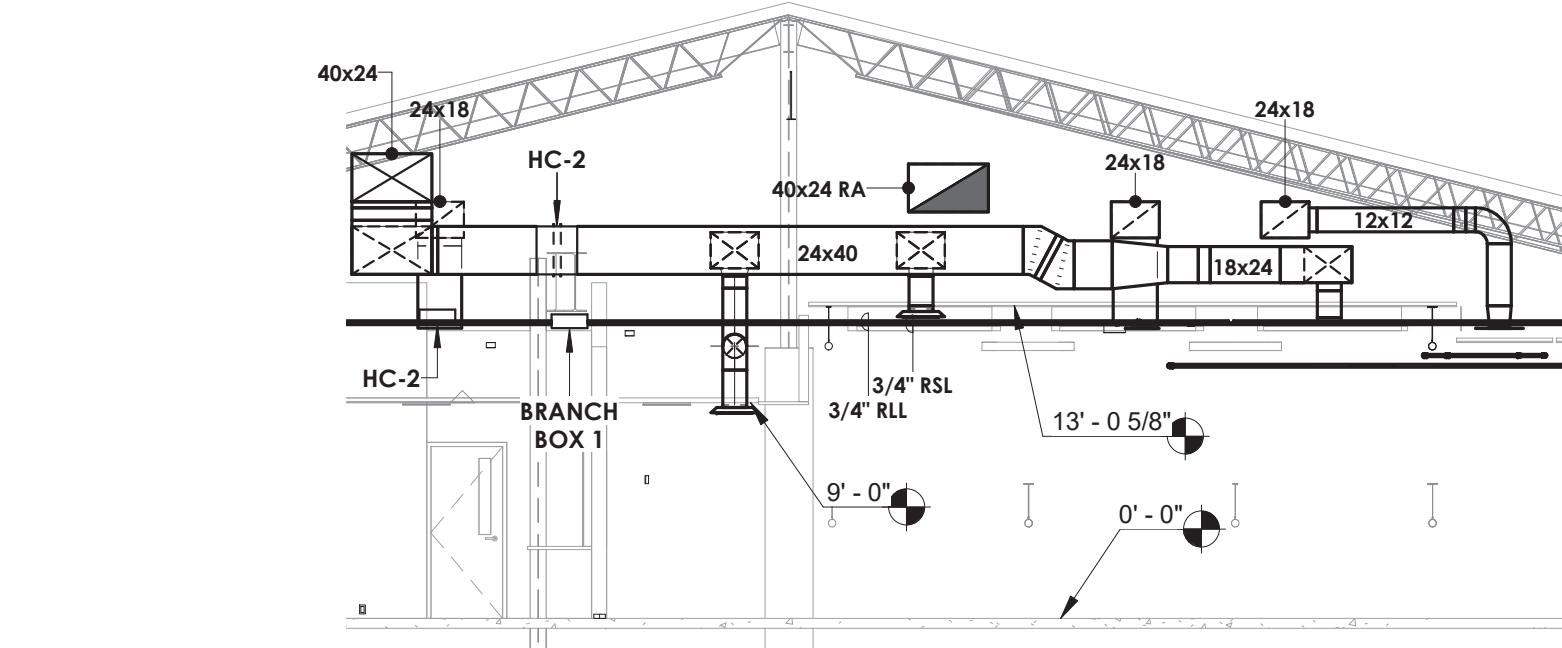
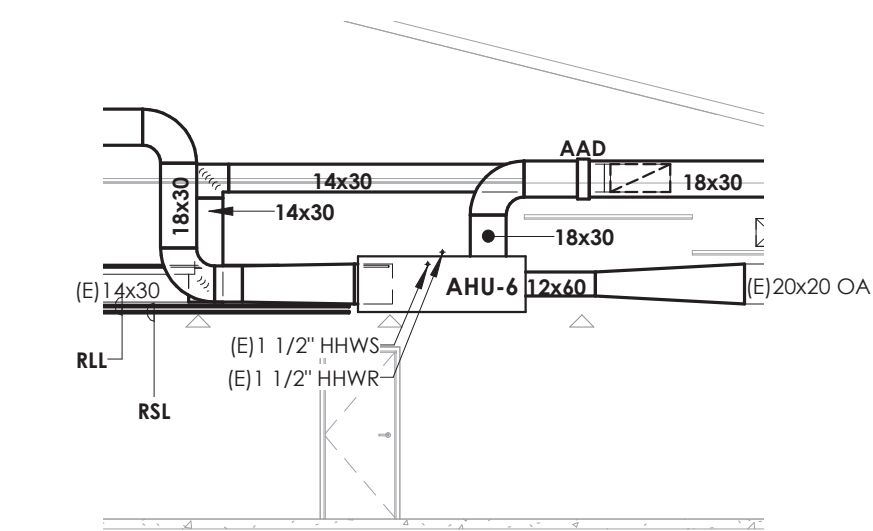
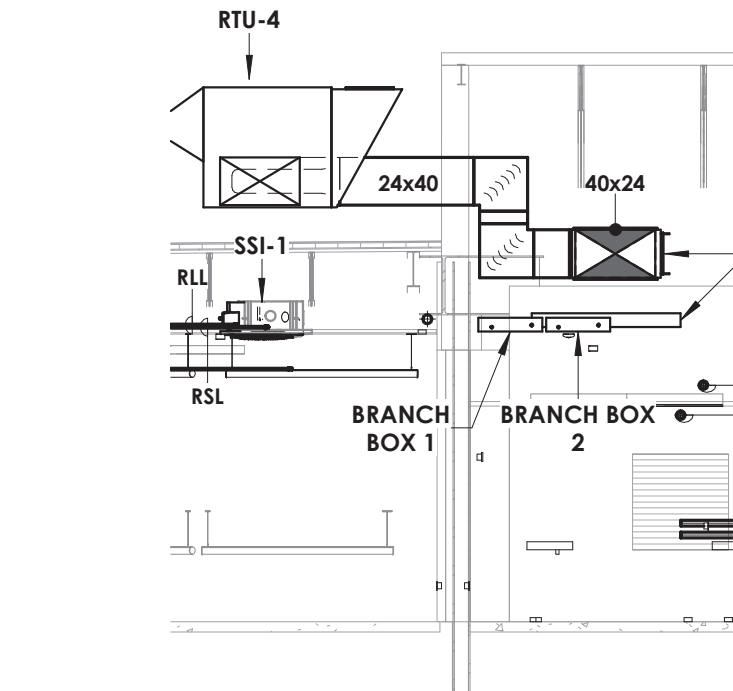
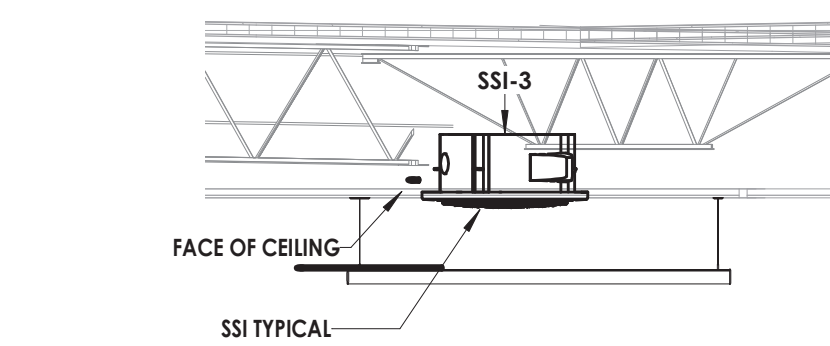
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Drawing Title
THIRD FLOOR HVAC DEMOLITION PLAN - AREA D

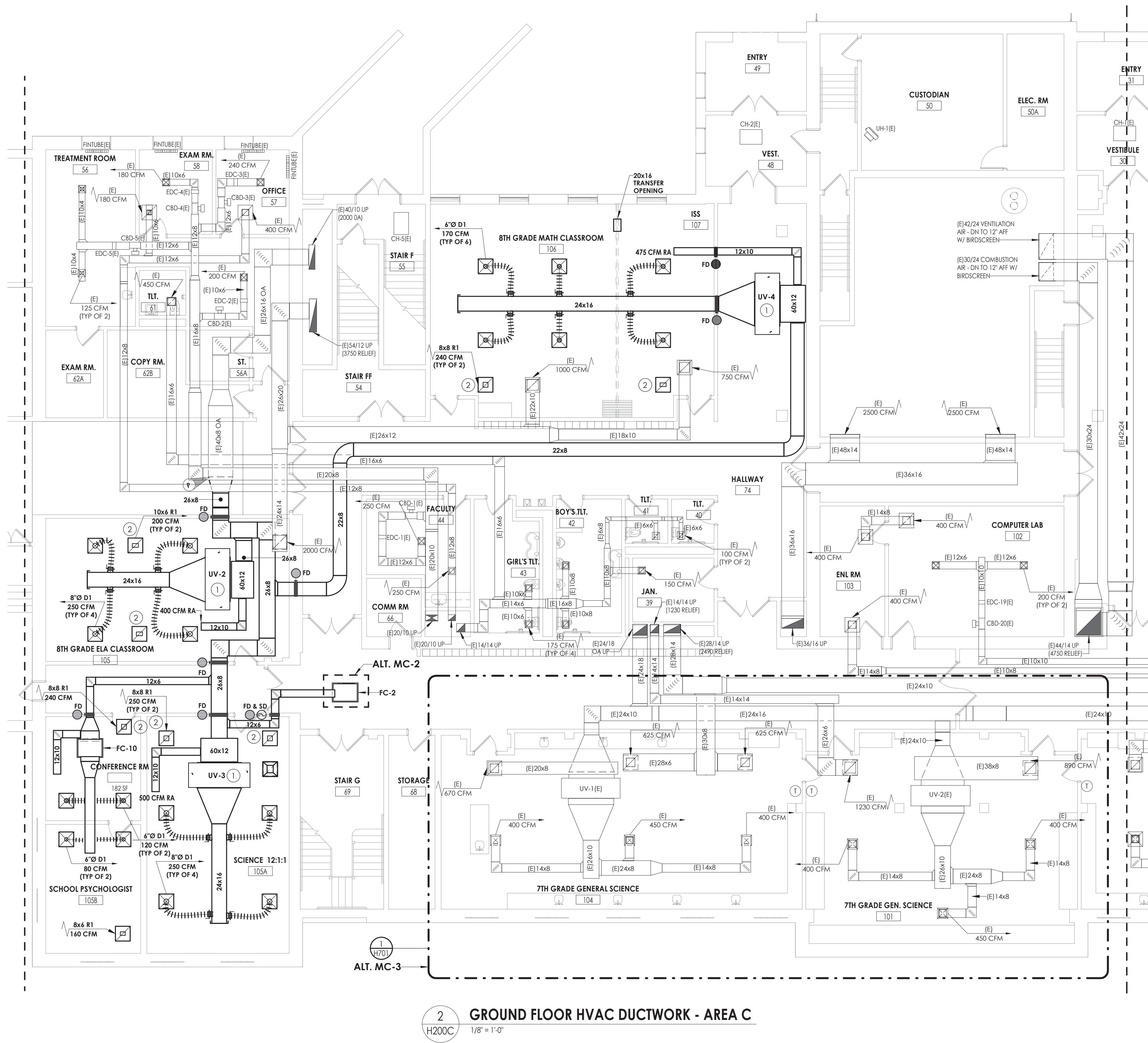
Drawing Number

HMS
H103D





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2 GROUND FLOOR HVAC DUCTWORK - AREA C
H200C 1/8" = 1'-0"

KEY NOTES

- 1 MOUNT UNIT VENTILATOR ABOVE CEILING. COORDINATE WITH ANY CEILING UTILITIES. MAINTAIN ACCESS FOR FILTER CHANGES. ALL SUPPLY AND RETURN DUCTWORK SHALL BE UNED. EXTEND EXISTING CONTROLS TO NEW UNIT LOCATION.
- 2 PLENUM RETURN.

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

PROJECT ISSUE SCHEDULE

No.	Date	Description
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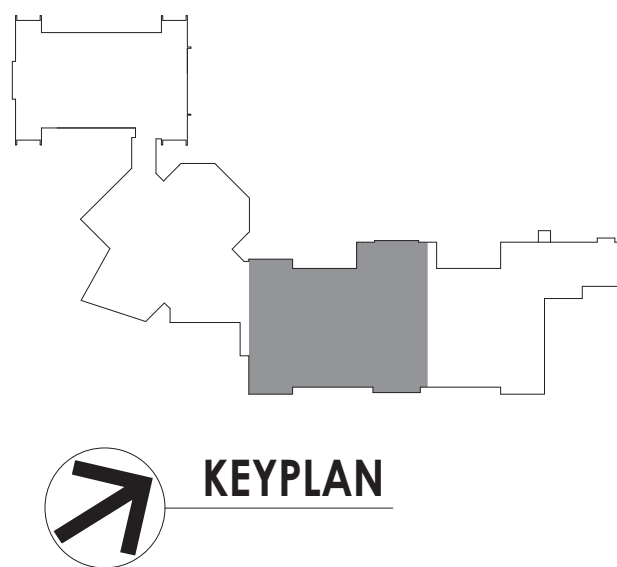
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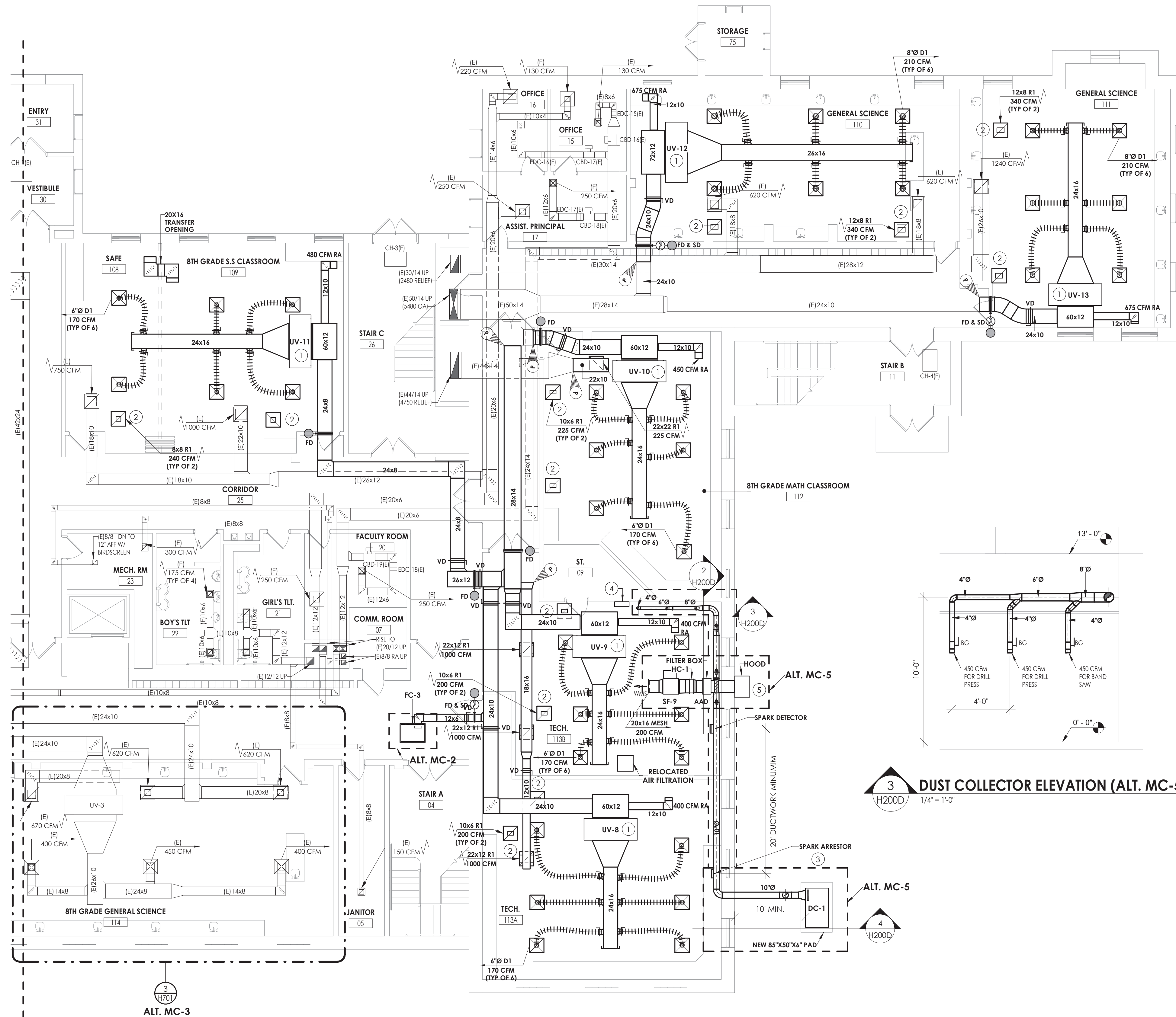
SHEET INFORMATION

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

Drawing Number

HMS
H200C

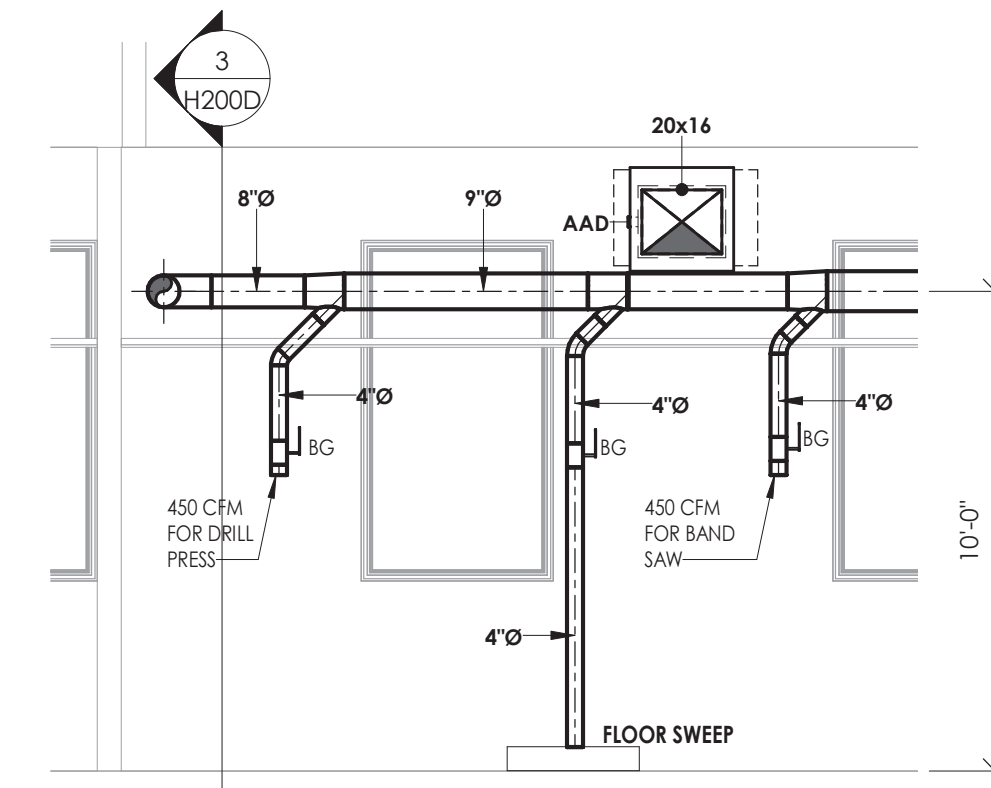




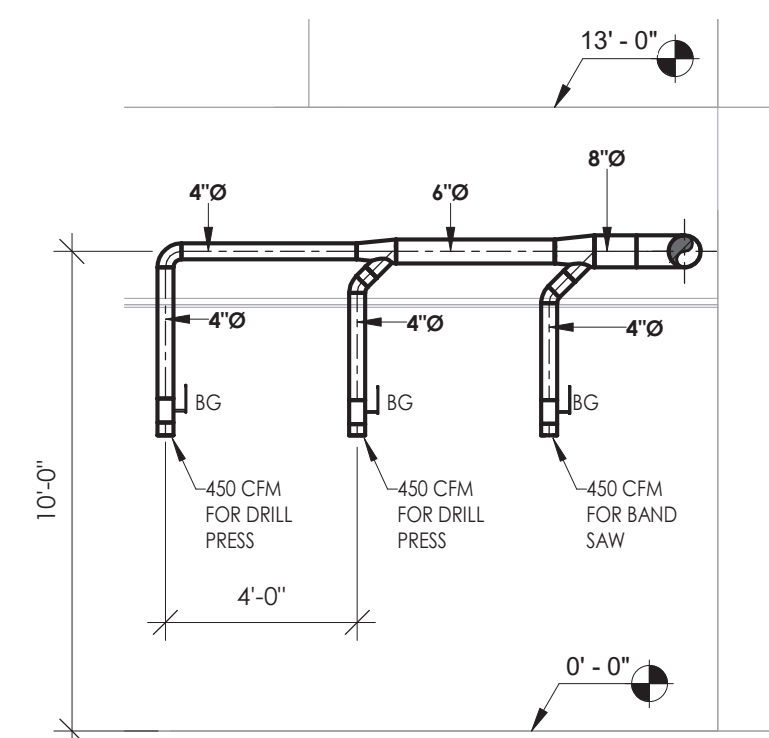
1
H200D
GROUND FLOOR HVAC DUCTWORK - AREA D
1/8" = 1'-0"

KEY NOTES

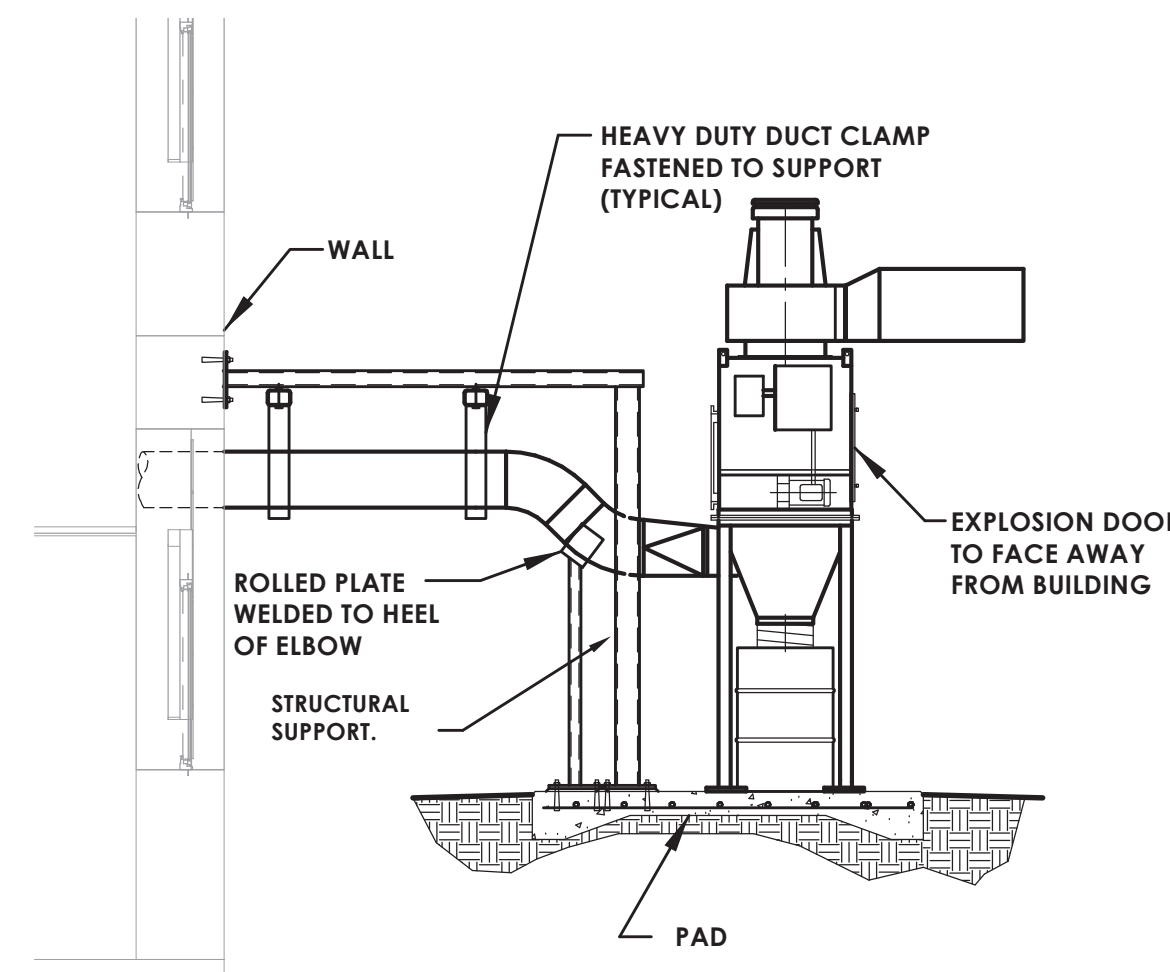
- 1 MOUNT UNIT VENTILATOR ABOVE CEILING. COORDINATE WITH ANY CEILING UTILITIES. MAINTAIN ACCESS FOR FILTER CHANGES. ALL SUPPLY AND RETURN DUCTWORK SHALL BE LINED. EXTEND EXISTING CONTROLS TO NEW UNIT LOCATION.
- 2 PLENUM RETURN.
- 3 ROUTE DUST COLLECTOR MAIN AS HIGH AS POSSIBLE BELOW CEILING. COORDINATE WITH MAKE-UP AIR FAN, COIL AND DUCTWORK.
- 4 MOUNT DUST COLLECTOR CONTROL PANEL 45" AFF.
- 5 HOOD COLOR SHALL MATCH EXISTING EXTERIOR BRICK COLOR. PROVIDE WITH A 36X24 HOOD. BLAST GATES SHALL BE PROVIDED AT EVERY TOOL DROP.



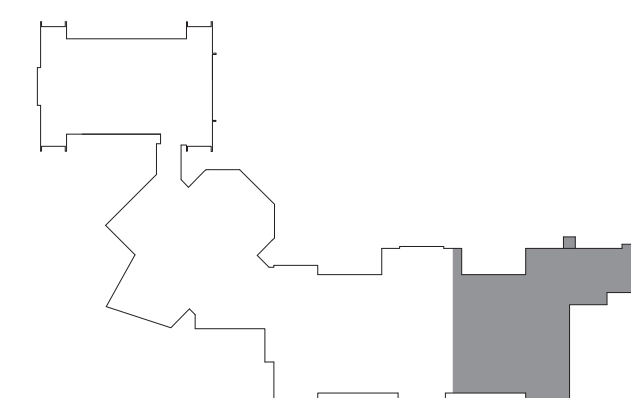
2
H200D
DUST COLLECTOR SECTION (ALT. MC-5)
1/4" = 1'-0"



3
H200D
DUST COLLECTOR ELEVATION (ALT. MC-5)
1/4" = 1'-0"



4
H200D
DUST COLLECTOR ELEVATION (ALT MC-5)
1/4" = 1'-0"



PROJECT INFORMATION

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

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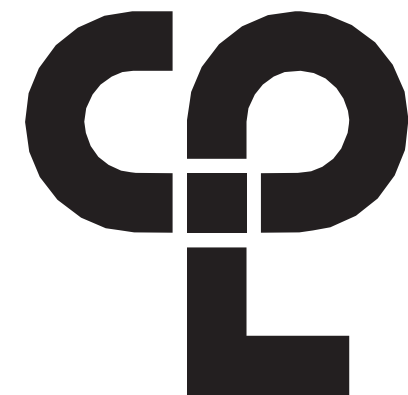
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Scale
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Project Status
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Drawn By
NRH
Checked By
JJM
Drawing Title
GROUND FLOOR HVAC
DUCTWORK PLAN - AREA D

Drawing Number

HMS
H200D



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50 FRONT ST. SUITE 202
NEWBURGH, NY 12550
CPLteam.com

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

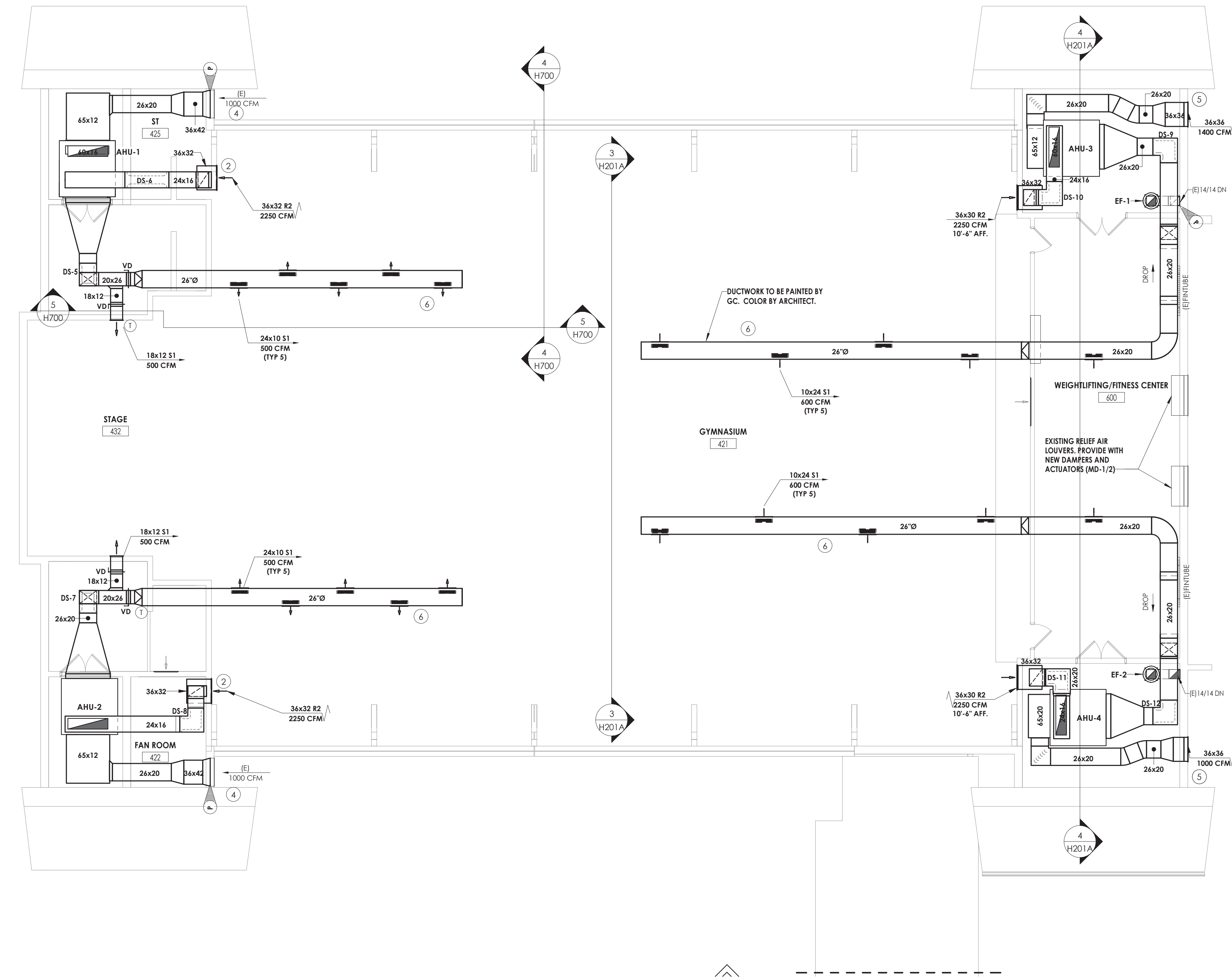
SED Number
44-16-00-01-0-039-011

PROJECT ISSUE SCHEDULE

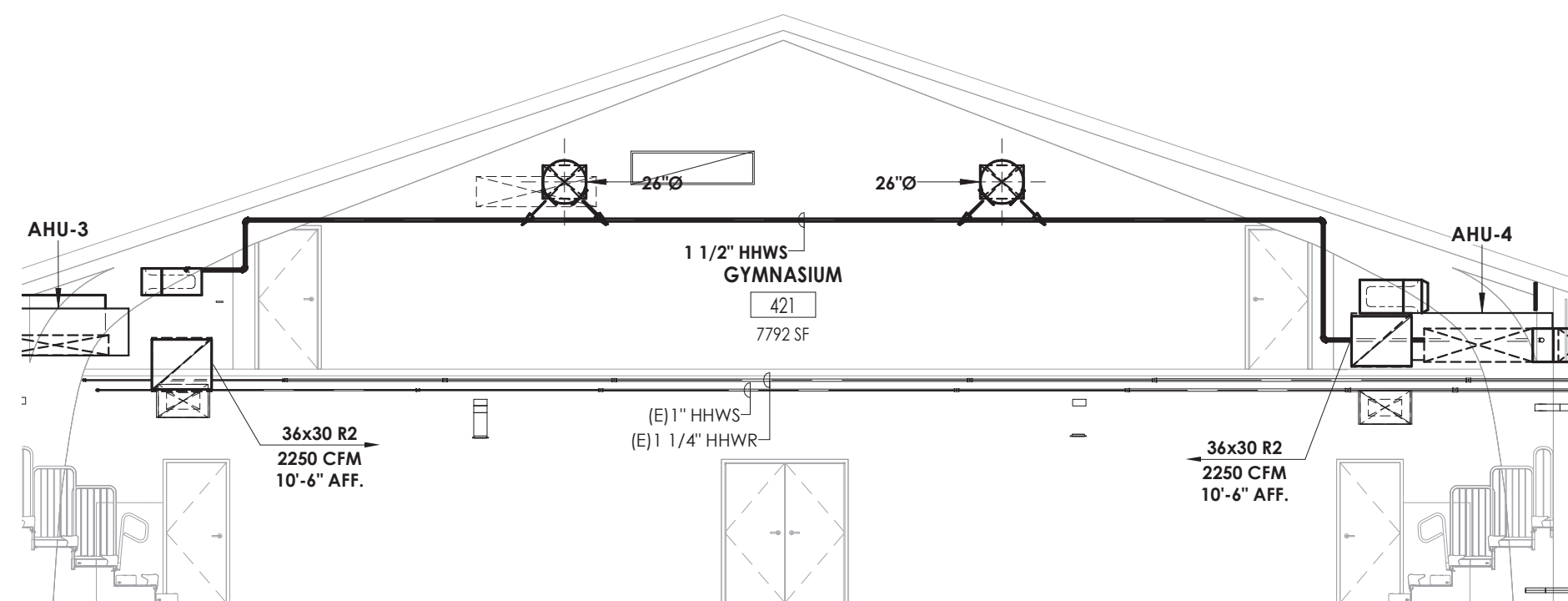
No. Date Description

KEY NOTES

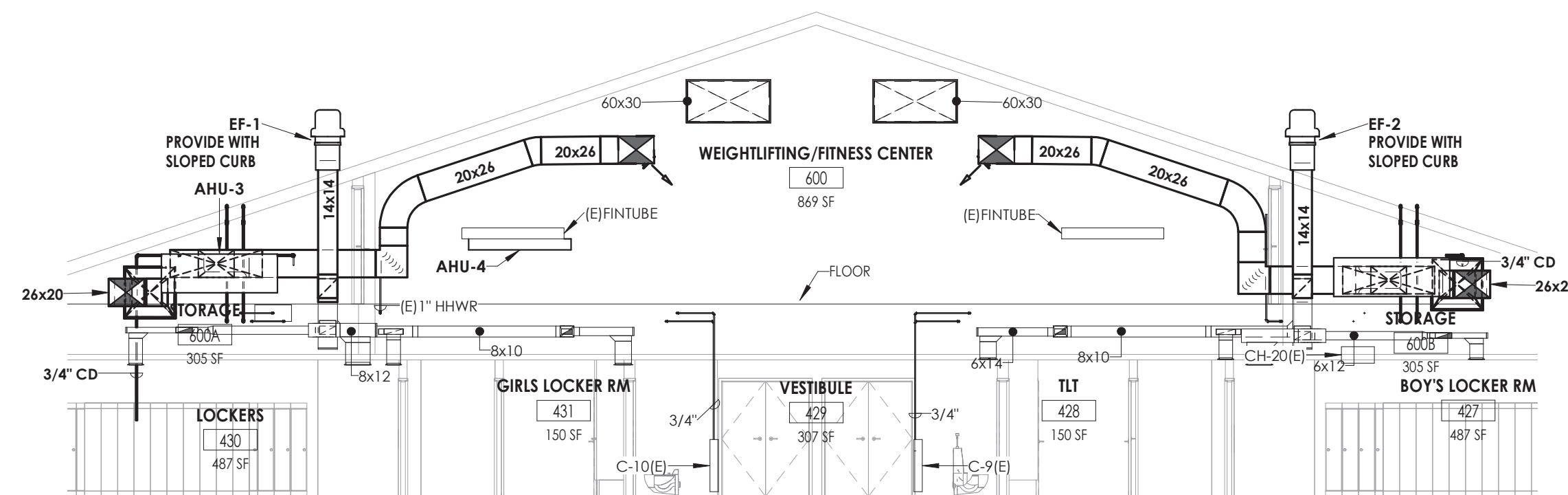
- 1 MOUNT AIR HANDLING UNIT 12" ABOVE FINISHED FLOOR. MAINTAIN EQUIPMENT ACCESS REQUIREMENTS, EXTEND EXISTING CONTROLS TO NEW UNIT.
- 2 RE-USE EXISTING OPENING IN WALL. PROVIDE NEW LOUVER.
- 3 PROVIDE NEW RETURN AIR LOUVER. COLOR BY ARCHITECT.
- 4 REUSE EXISTING 36"x42" SUPPLY AIR LOUVER.
- 5 PROVIDE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



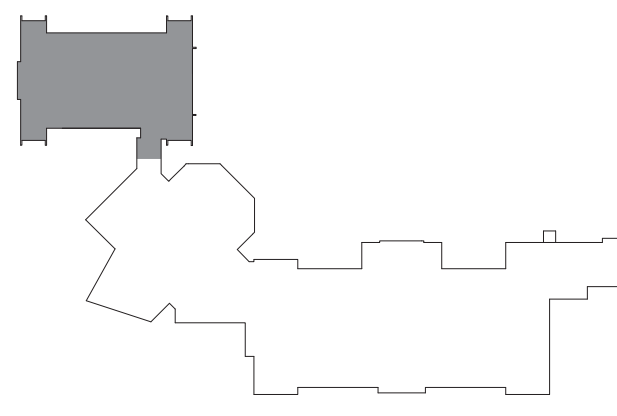
1 FIRST FLOOR HVAC DUCTWORK PLAN - AREA A
1/8" = 1'-0"



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



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



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SHEET INFORMATION

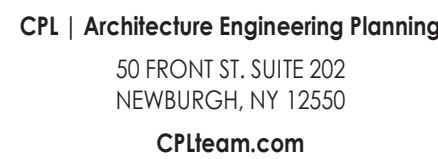
Issued
09/09/2021
Scale
As indicated
Project Status
CONSTRUCTION DOCUMENTS
Drawn By
NRH
Checked By
JJM
Drawing Title
FIRST FLOOR HVAC DUCTWORK
PLAN - AREA A

Drawing Number

HMS
H201A



- 1 MOUNT UNIT VENTILATOR ABOVE CEILING. COORDINATE WITH ANY CEILING UTILITIES. MAINTAIN ACCESS FOR FILTER CHANGES. ALL SUPPLY AND RETURN DUCTWORK SHALL BE LINED. EXTEND EXISTING CONTROLS TO NEW UNIT LOCATION.
- 2 PLENUM RETURN.
- 3 REROUTE EXISTING DUCTWORK TO ALLOW FOR NEW INSTALLATION.

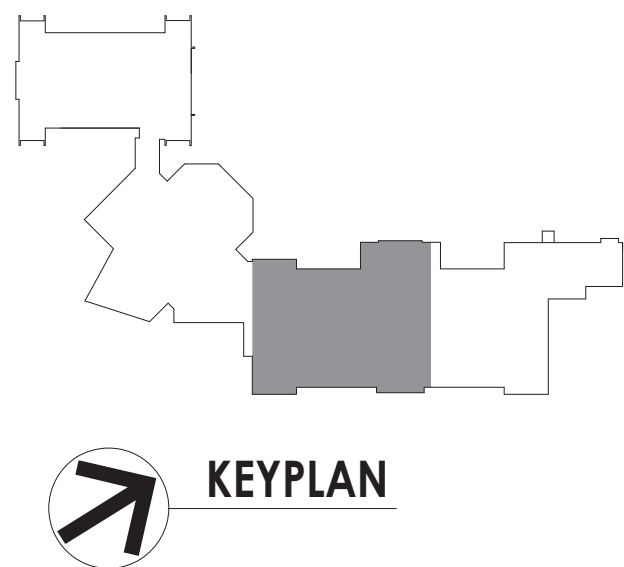


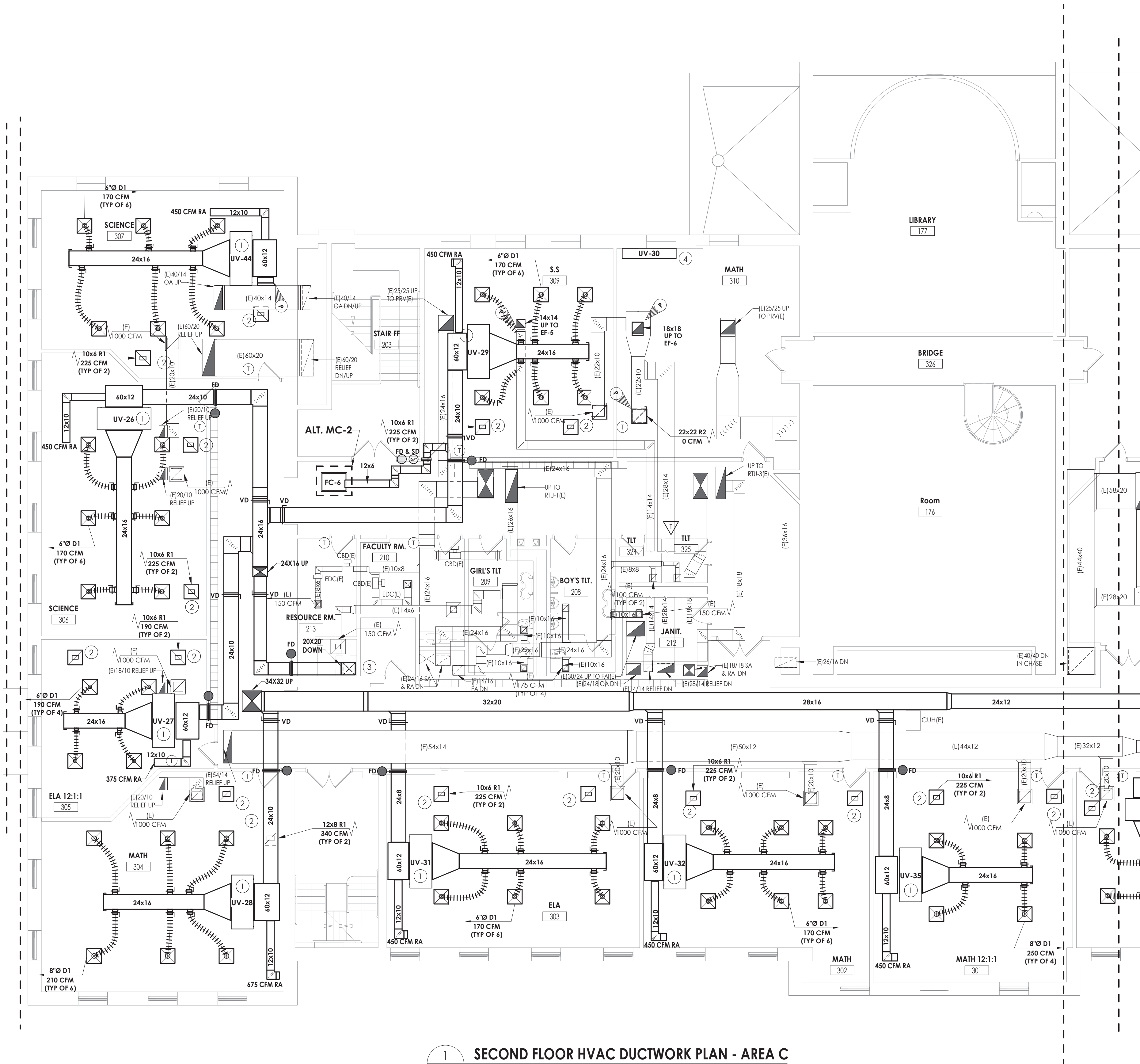
Project Name
**PHASE 3: HERITAGE MIDDLE
SCHOOL 2019 CAPITAL
IMPROVEMENT PROJECT**

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

No.	Date	Description
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HMS
H201C





1 SECOND FLOOR HVAC DUCTWORK PLAN - AREA C
H202C 1/8" = 1'-0"

KEY NOTES

- 1 MOUNT UNIT VENTILATOR ABOVE CEILING. COORDINATE WITH ANY CEILING UTILITIES. MAINTAIN ACCESS FOR FILTER CHANGES. ALL SUPPLY AND RETURN DUCTWORK SHALL BE LINED. EXTEND EXISTING CONTROLS TO NEW UNIT LOCATION.
- 2 PLENUM RETURN.
- 3 REMOVE EXISTING DUCTWORK TO ALLOW FOR NEW INSTALLATION.
- 4 PROVIDE NEW UNIT VENTILATOR IN SAME LOCATION AS EXISTING. CONNECT TO EXISTING UTILITIES. (MODIFY EXISTING CASEWORK AS NEEDED FOR INSTALLATION OF NEW UNIT VENTILATOR.)

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Project Address
405 Union Avenue, New Windsor, NY 12553
S&P Number
44-16-00-01-0-039-011

PROJECT ISSUE SCHEDULE

No. Date Description

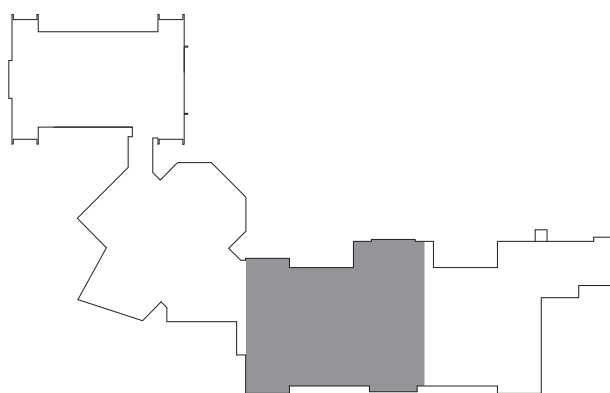
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SHEET INFORMATION

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

Drawing Number

HMS
H202C



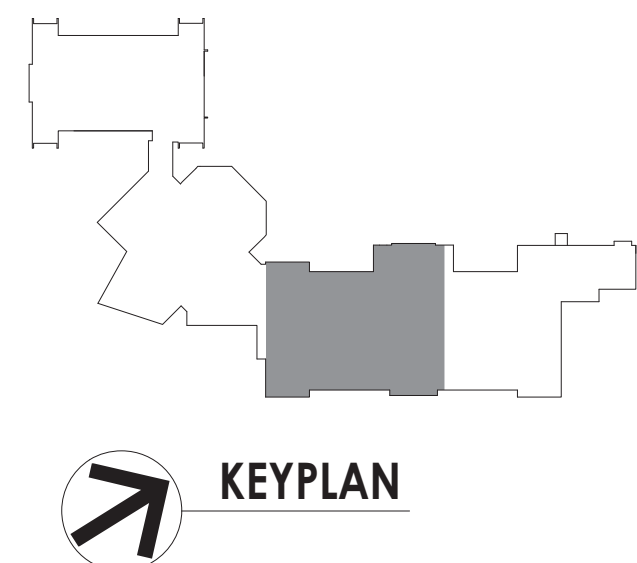


- PROJECT INFORMATION**
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SCHOOL DISTRICT**
- Project Name
**PHASE 3: HERITAGE MIDDLE
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IMPROVEMENT PROJECT**
- Project Address
405 Union Street
New Windsor, NY 12553
- SID Number
44-16-00-01-0-039-011
- PROJECT ISSUE SCHEDULE**
- | No. | Date | Description |
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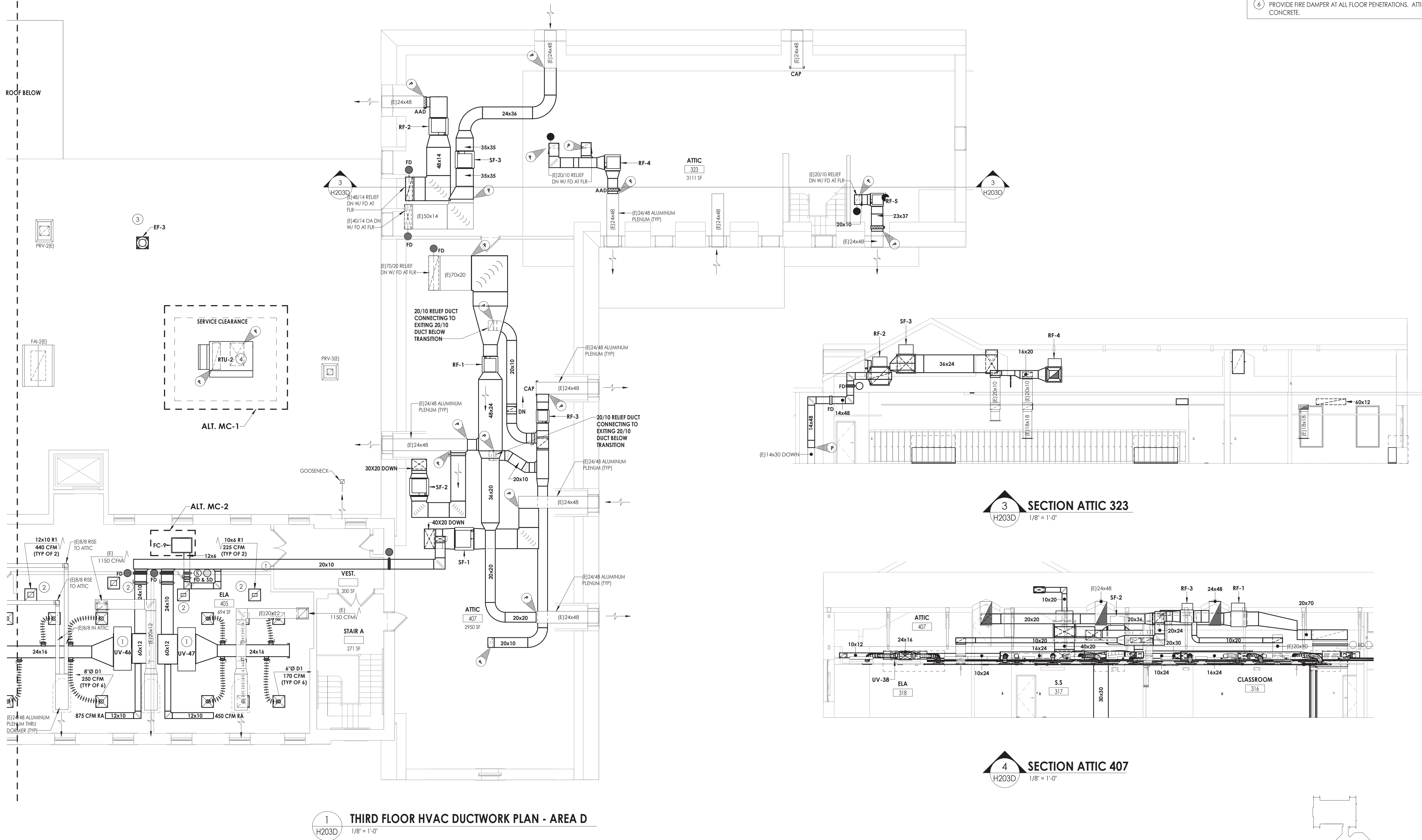
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Drawing Number

HMS
H203C



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KEY NOTES

- 1 MOUNT UNIT VENTILATOR ABOVE CEILING. COORDINATE WITH ANY CEILING UTILITIES. MAINTAIN ACCESS FOR FILTER CHANGES. ALL SUPPLY AND RETURN DUCTWORK SHALL BE LINED. EXTEND EXISTING CONTROLS TO NEW UNIT LOCATION.
- 2 PLENUM RETURN.
- 3 EXHAUST FANS SHALL BE PROVIDED WITH NEW CURB. CONNECT TO EXISTING DUCT RISERS.
- 4 ROOFTOP UNIT SHALL BE PROVIDED WITH A NEW CURB. CONNECT TO EXISTING DUCT RISER.
- 5 UNIT VENTILATORS SHALL BE INSTALLED IN ATTIC SPACE. EACH DROP THROUGH CONCRETE FLOOR SHALL BE PROVIDED WITH NEW FIRE DAMPER.
- 6 PROVIDE FIRE DAMPER AT ALL FLOOR PENETRATIONS. ATTIC FLOOR IS CONCRETE.

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PROJECT INFORMATION

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Project Name
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Project Address
405 Union Avenue, New Windsor, NY 12553
SED Number
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PROJECT ISSUE SCHEDULE

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Issued
09/09/2021
Project Status
CONSTRUCTION DOCUMENTS
Drawn By
NRH
Checked By
JJM
Drawing Title
THIRD FLOOR HVAC DUCTWORK PLAN - AREA D

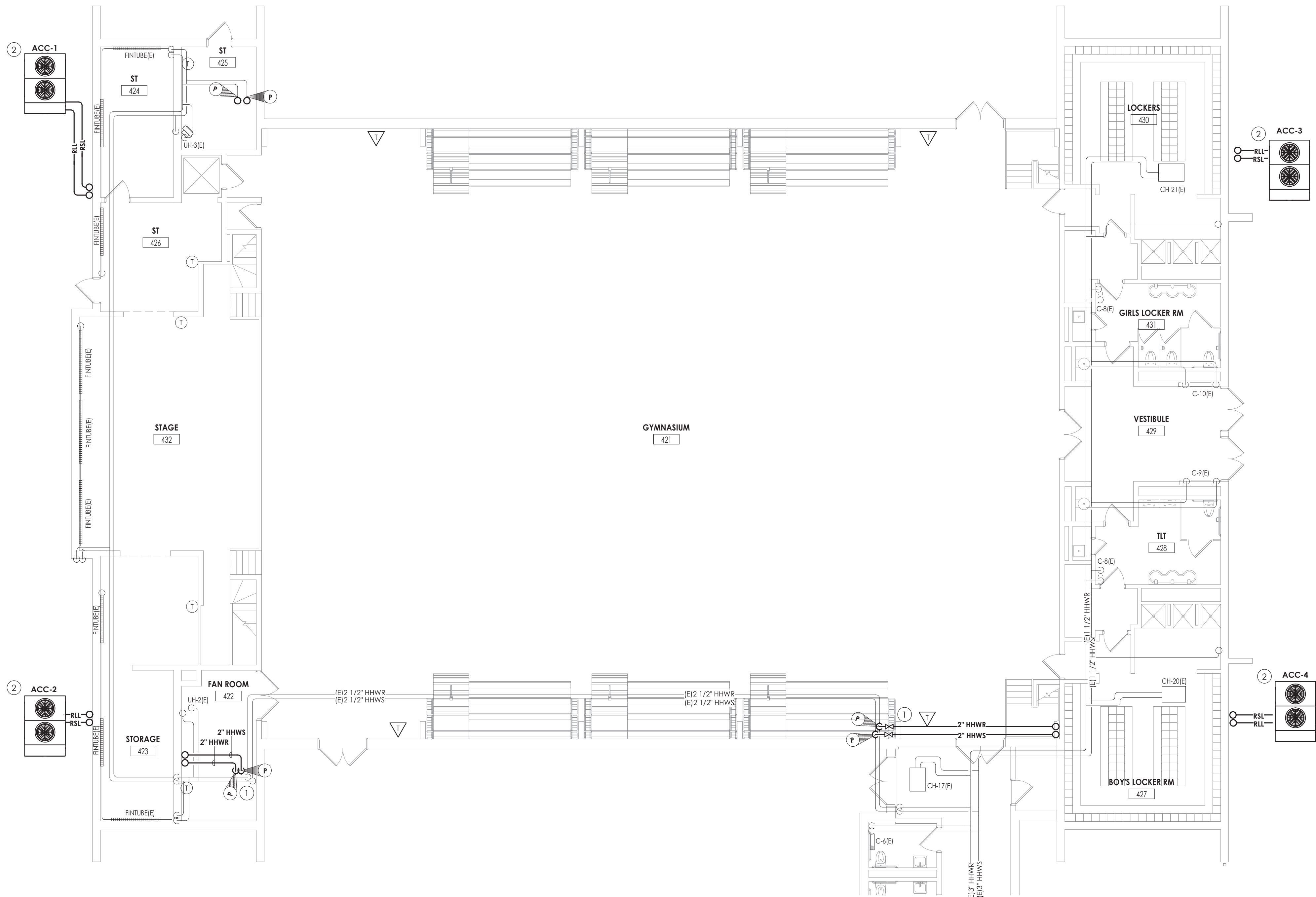
Drawing Number

HMS
H203D

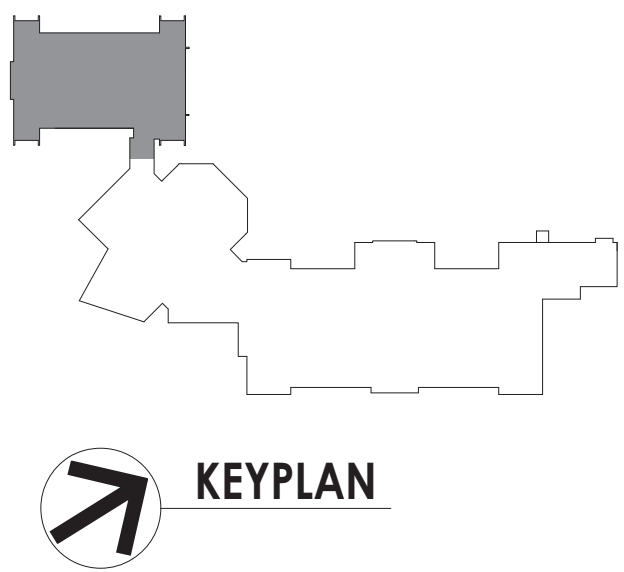


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1
H300A
GROUND FLOOR HVAC PIPING PLAN - AREA A
1/8" = 1'-0"



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.

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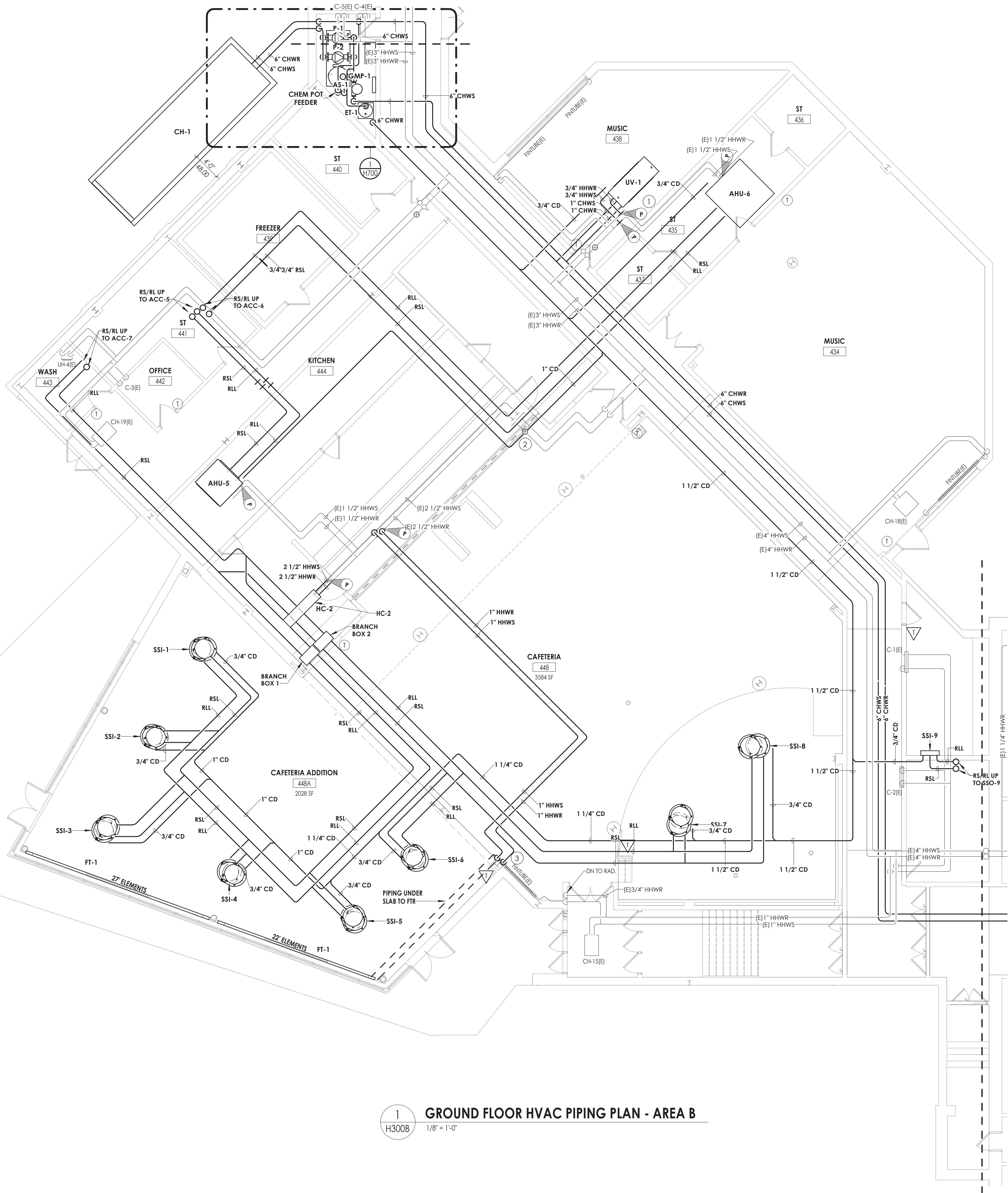
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Issued	Scale
09/09/2021	As indicated
Project Status CONSTRUCTION DOCUMENTS	
Drawn By NRH	Checked By JJM
Drawing Title GROUND FLOOR HVAC PIPING PLAN - AREA A	

Drawing Number

HMS
H300A

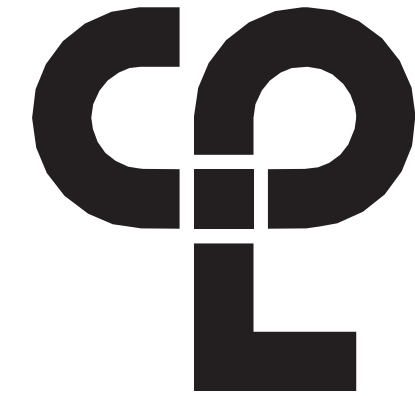


GENERAL NOTES

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. CONNECT NEW PIPING TO EXISTING PIPING AT POINTS INDICATED. RE-INSULATE ANY EXISTING PIPING AT CONNECTED LOCATIONS.
2. REBALANCE EXISTING BALANCING VALVE TO NEW FLOW.
3. ROUTE PIPING DOWN COLUMN ENCLOSURE.



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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

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

PROJECT ISSUE SCHEDULE

No.	Date	Description
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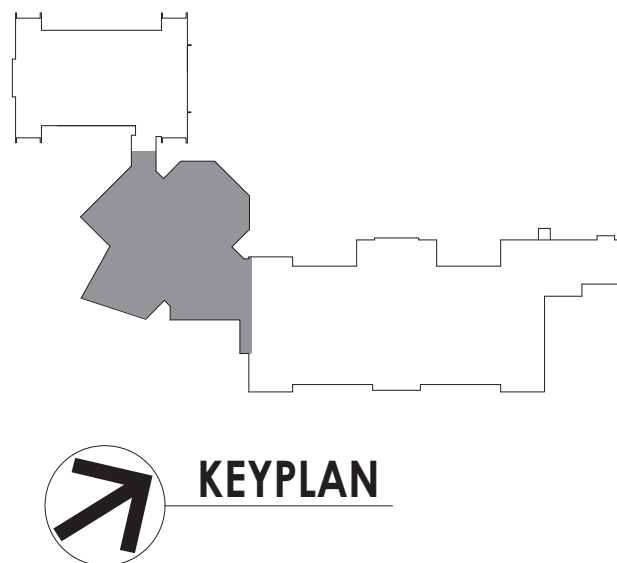
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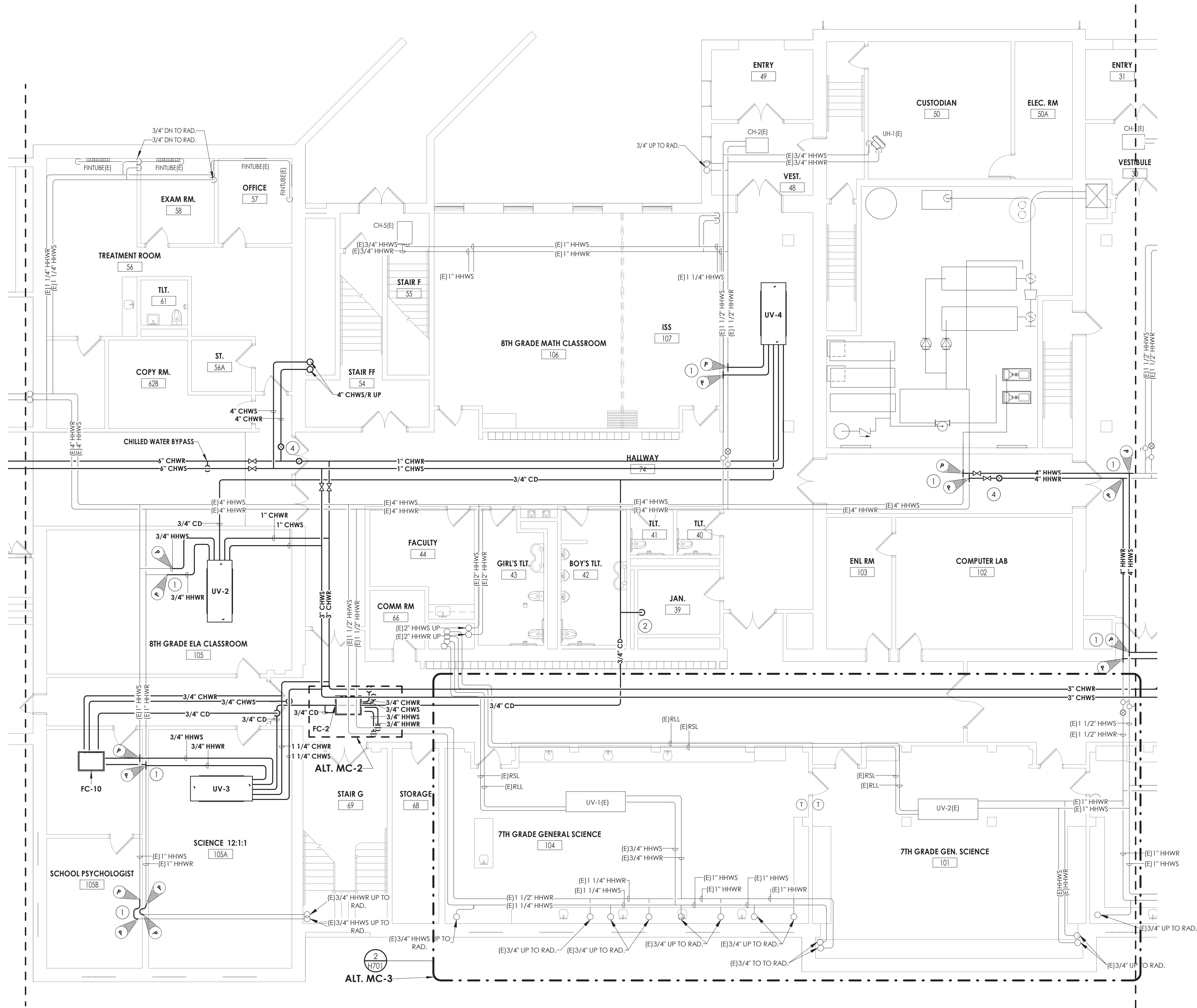
SHEET INFORMATION

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 B	

Drawing Number

HMS
H300B





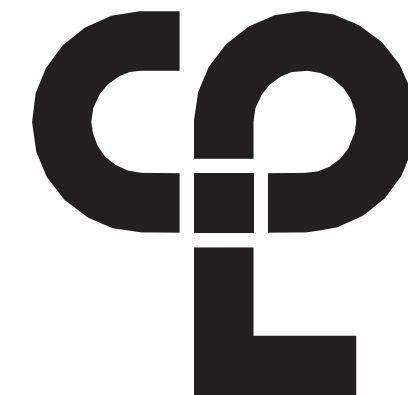
1
H300C
GROUND FLOOR HVAC PIPING PLAN - AREA C
1/8" = 1'-0"

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. CONNECT NEW PIPING TO EXISTING PIPING AT POINTS INDICTAED. RE-INSULATE ANY EXISTING PIPING AT CONNECTED LOCATIONS.
2. SPILL CONDENSATE INTO EXISTING MOP RECEPTOR.
3. REMOVE 50' OF EXISTING 1" HOT WATER PIPING. REINSTALL PIPING TIGHT TO STEEL AND STACK TO ALLOW FOR NEW INSTALLATION OF CHILLED WATER PIPING.
4. BALANCE SYSTEM BRANCH. COORDINATE WITH SCHEDULES AND SUBMITTED EQUIPMENT.



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Project Number
13940.18
Client Name

NEWBURGH ENLARGED CITY
SCHOOL DISTRICT

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

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405 Union Avenue, New Windsor, NY 12553

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

PROJECT ISSUE SCHEDULE

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09/09/2021
Scale
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Project Status

CONSTRUCTION DOCUMENTS

Drawn By
NRH

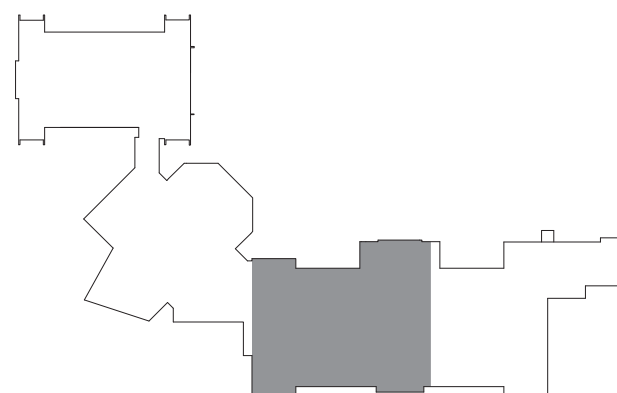
Checked By
JJM

Drawing Title

GROUND FLOOR HVAC PIPING
PLAN - AREA C

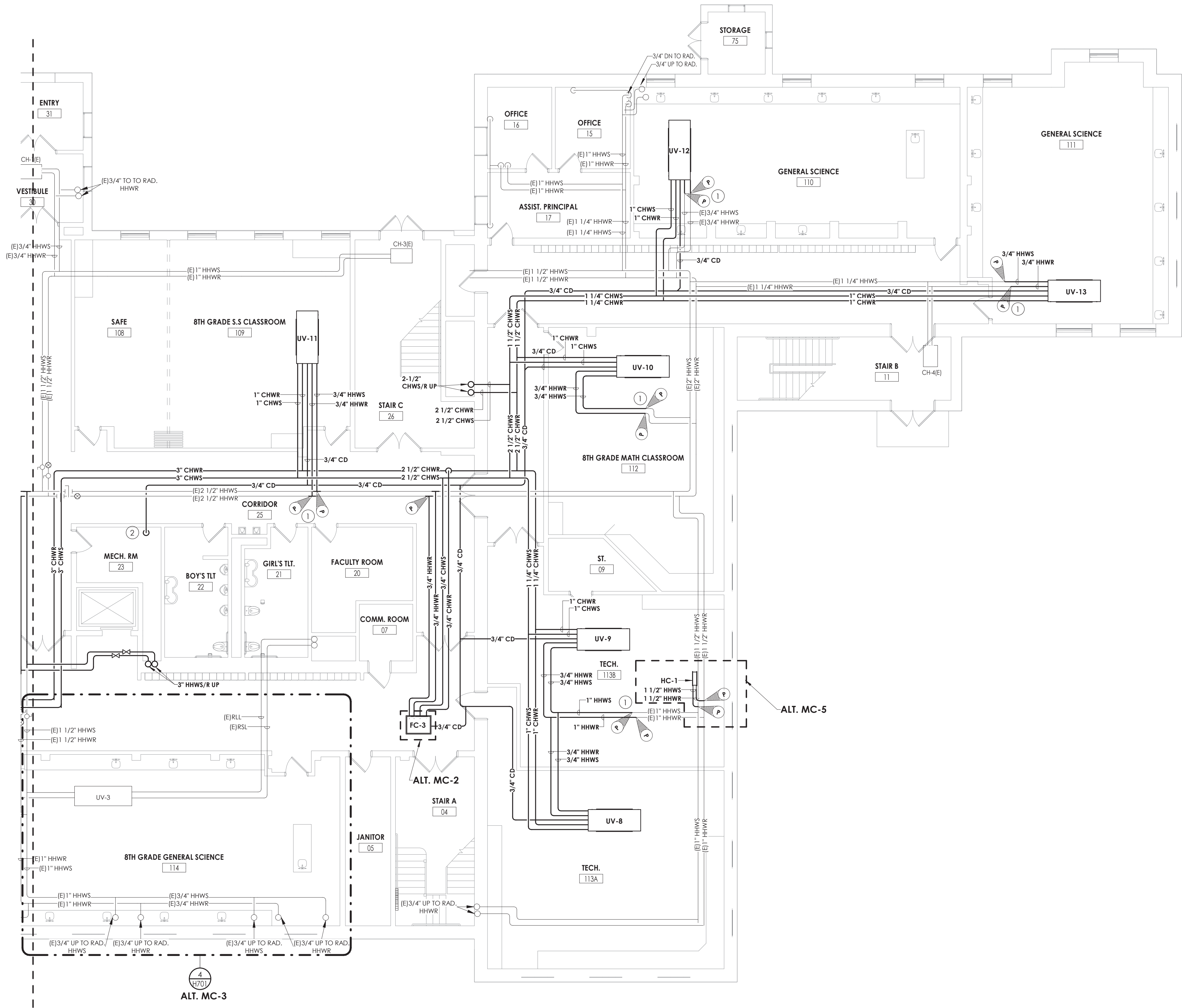
Drawing Number

HMS
H300C



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1
H300D

GROUND FLOOR HVAC PIPING PLAN - AREA D

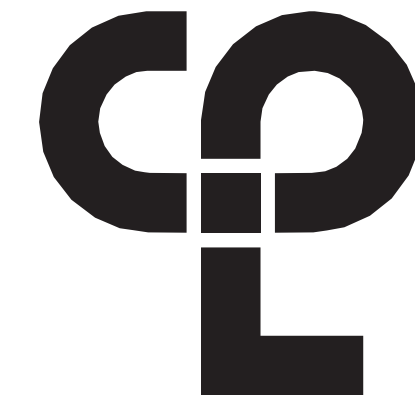
1/8" = 1'-0"

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.
- SPILL CONDENSATE INTO EXISTING MOP RECEPTOR.



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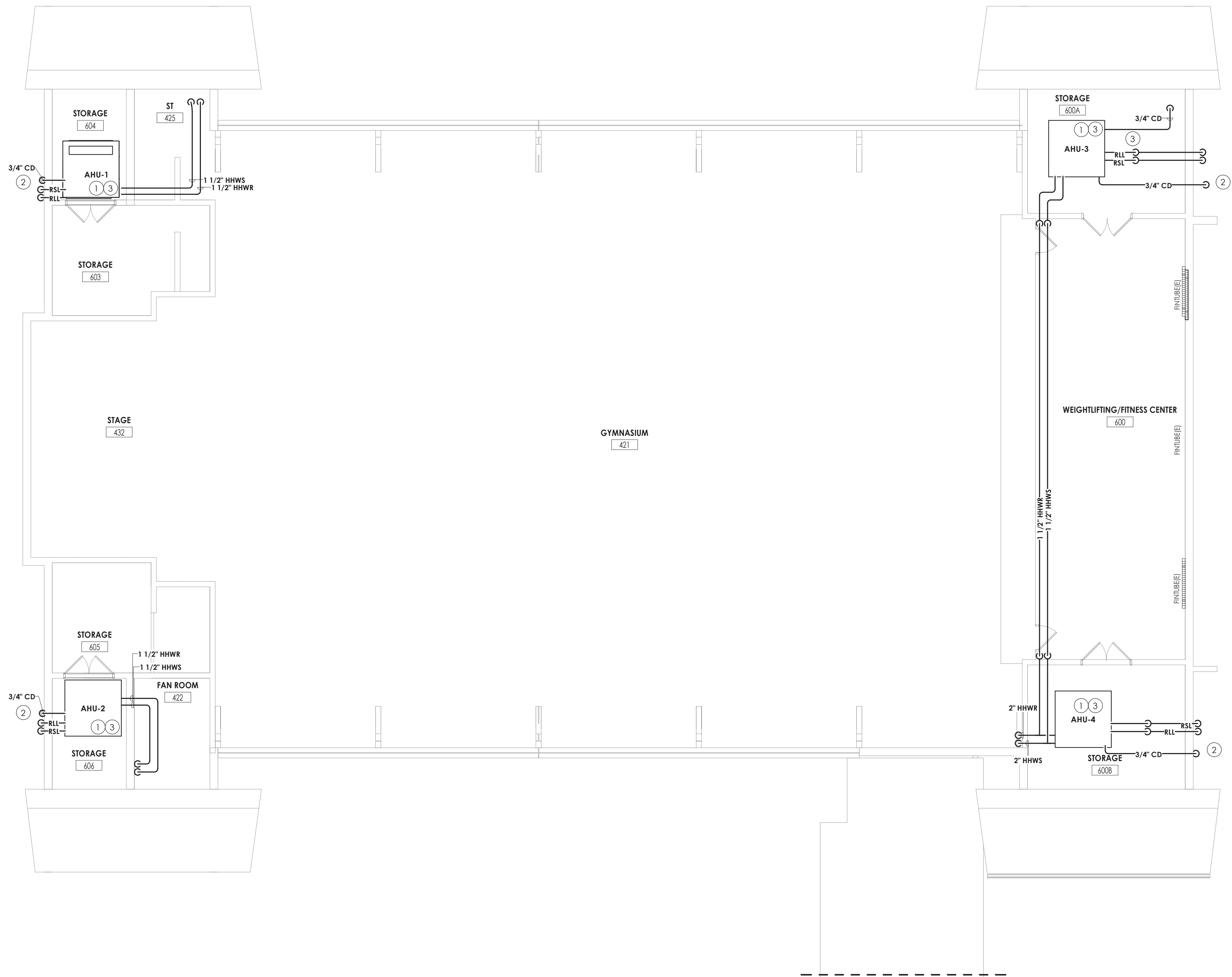
Issued
09/09/2021
Scale
As indicated
Project Status
CONSTRUCTION DOCUMENTS
Drawn By
NRH
Checked By
JJM
Drawing Title
GROUND FLOOR HVAC PIPING
PLAN - AREA D

Drawing Number

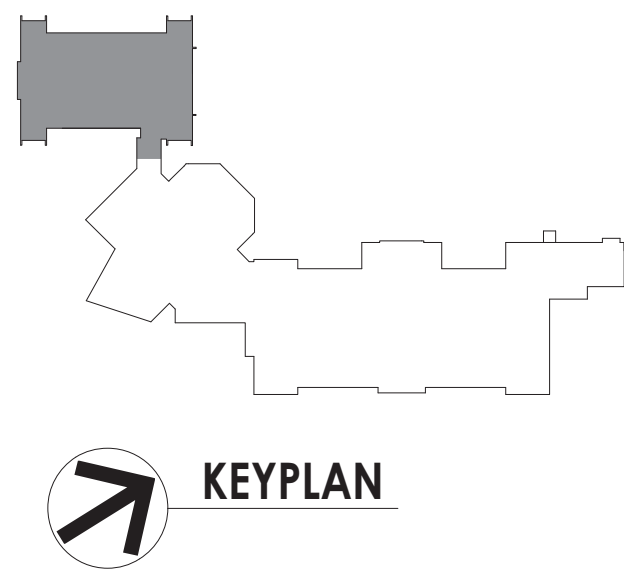
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1
H301A
FIRST FLOOR HVAC PIPING PLAN - AREA A
1/8" = 1'-0"

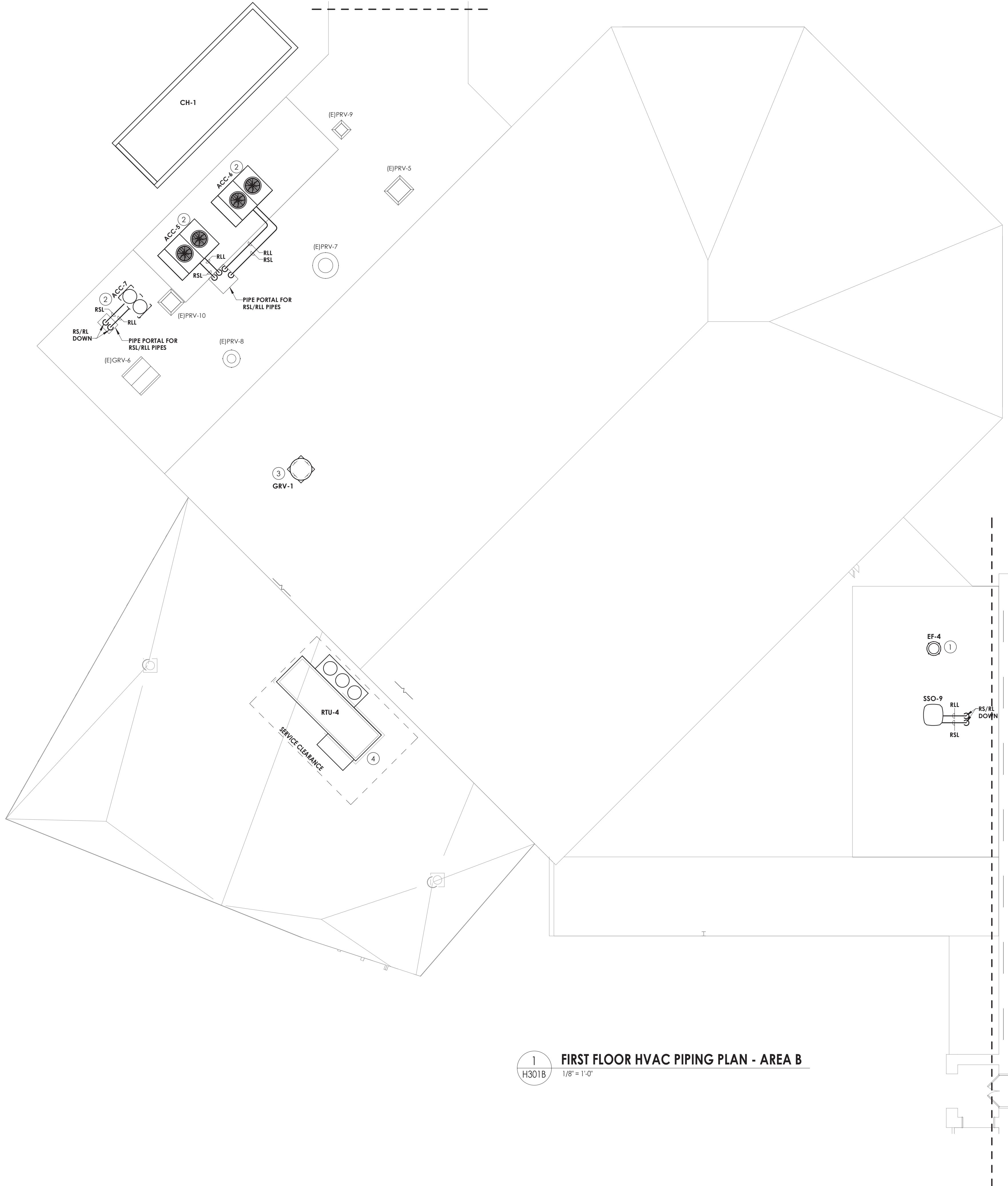


- GENERAL NOTES**
1. ALL COOLING EQUIPMENT ABOVE THE CEILING SHALL HAVE SECONDARY DRAIN PANS WITH FLOAT OVERFLOW ALARM CONNECTED TO THE BMS.
 2. EXTEND ALL EXISTING CONTROL WIRING TO NEW UNITS. COORDINATE WITH JOHNSON CONTROLS SYSTEMS. SENSORS BY JCS.
- KEY NOTES**
- 1 REFER TO H300 FOR TEMPERATURE SENSORS.
 - 2 CONDENSATE SHALL BE ROUTED TO NEAREST EXTERNAL WALL.
 - 3 AIR HANDLING UNITS SHALL BE FLOOR MOUNTED. PROVIDE VIBRATION ISOLATION.

PROJECT INFORMATION		
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SHEET INFORMATION		
Issued	09/09/2021	
Project Status	CONSTRUCTION DOCUMENTS	
Drawn By	NRH	Checked By JJM
Drawing Title	FIRST FLOOR HVAC PIPING PLAN - AREA A	
Drawing Number	HMS H301A	

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1
H301B
1/8" = 1'-0"

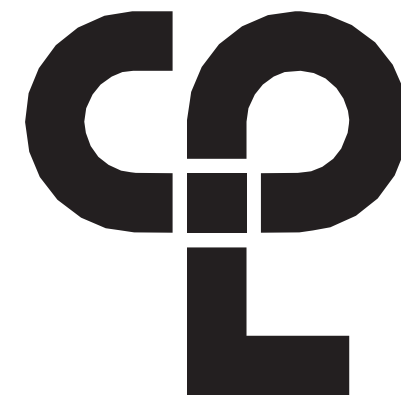
FIRST FLOOR HVAC PIPING PLAN - AREA B

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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Issued	Scale
09/09/2021	As indicated

Project Status

CONSTRUCTION DOCUMENTS

Drawn By

NRH

Checked By

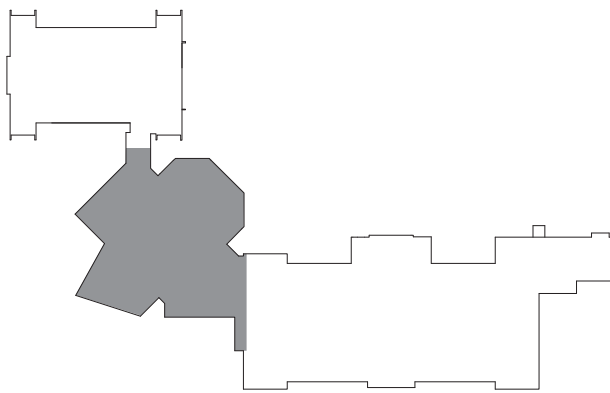
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Drawing Title

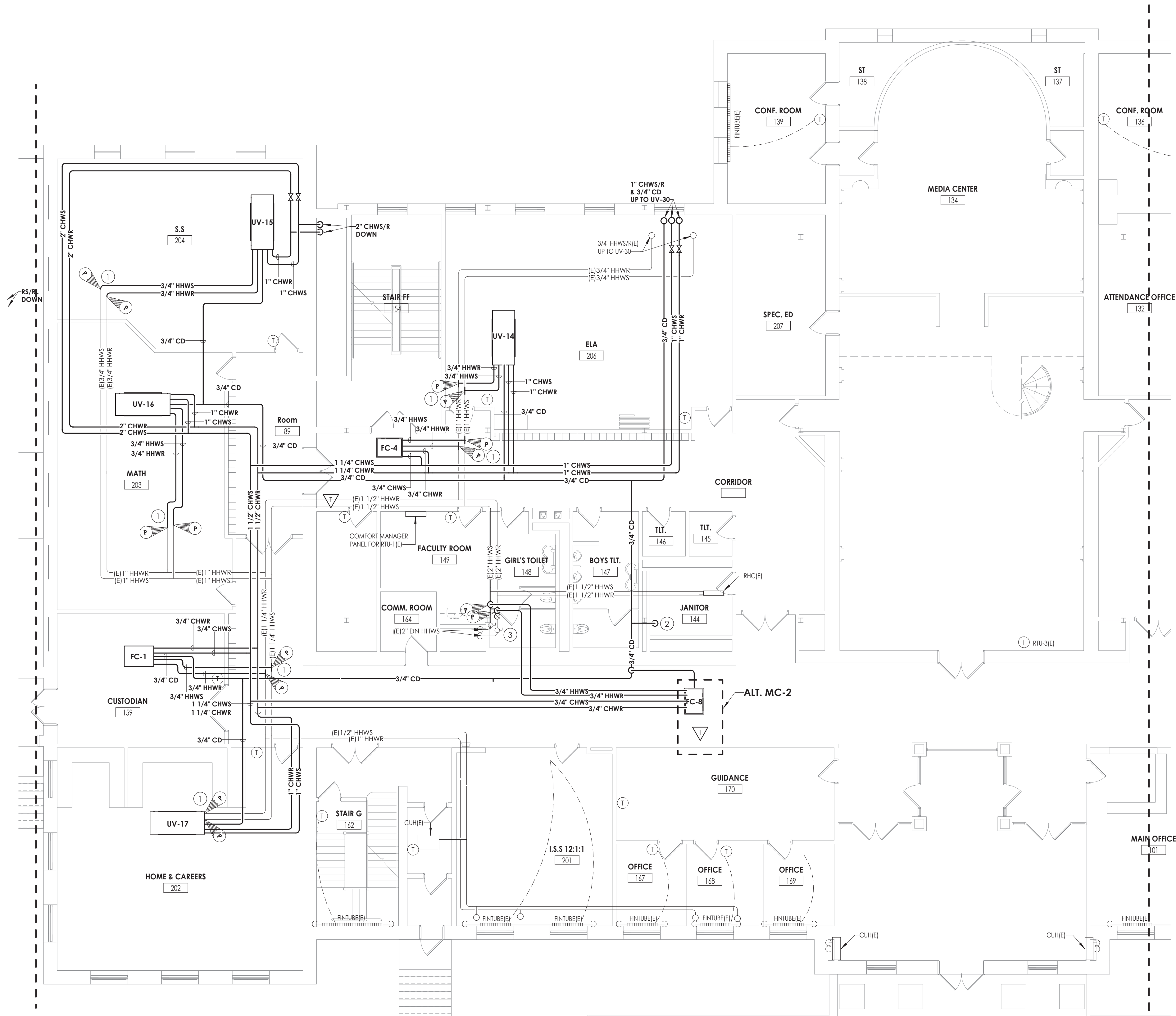
**FIRST FLOOR HVAC PIPING PLAN -
AREA B**

Drawing Number

**HMS
H301B**



KEYPLAN



1
H301C
FIRST FLOOR HVAC PIPING PLAN - AREA C
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

CONNECT NEW PIPING TO EXISTING PIPING AT POINTS INDICTAED. RE-INSULATE ANY EXISTING PIPING AT CONNECTED LOCATIONS.
- 2

SPILL CONDENSATE INTO EXISTING MOP RECEPTOR.
- 3

BALANCE SYSTEM BRANCH. COORDINATE WITH SCHEDULES AND SUBMITTED EQUIPMENT.

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50 FRONT ST. SUITE 202
NEWBURGH, NY 12550
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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

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SHEET INFORMATION

Issued
09/09/2021

Scale
As indicated

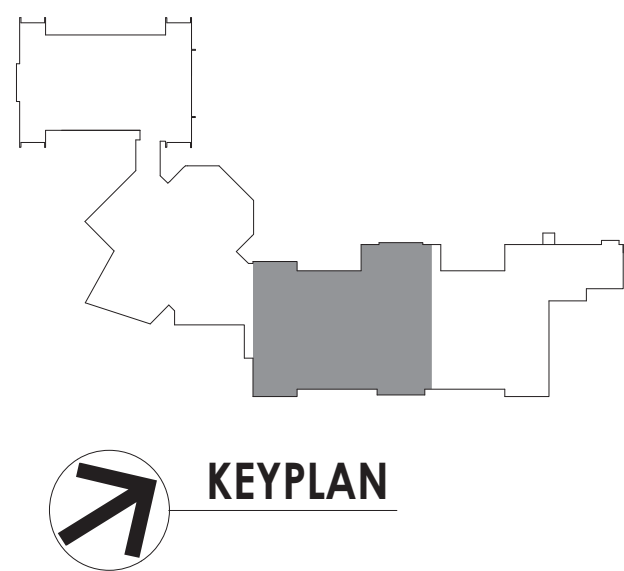
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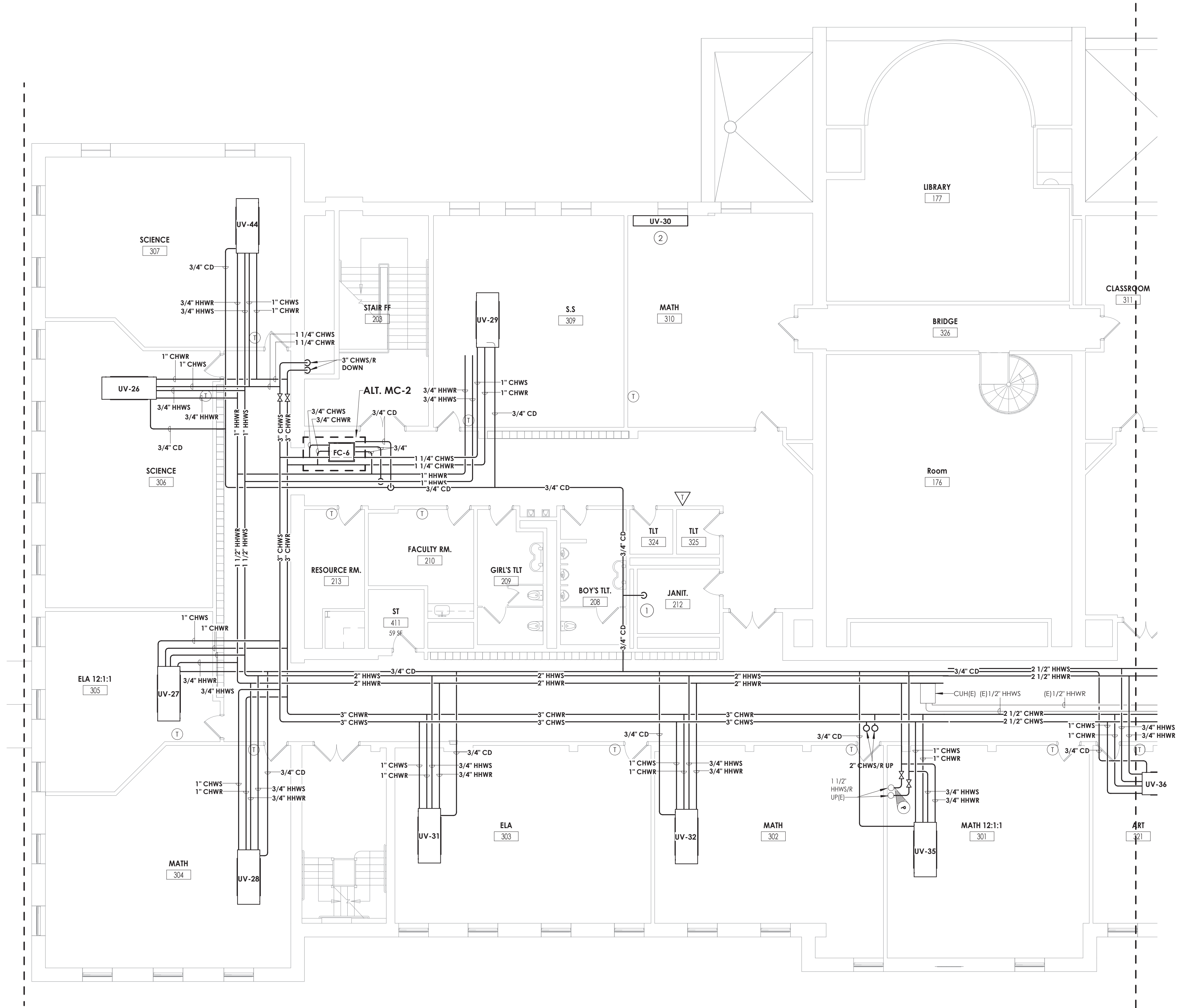
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NRH

Checked By
JJM

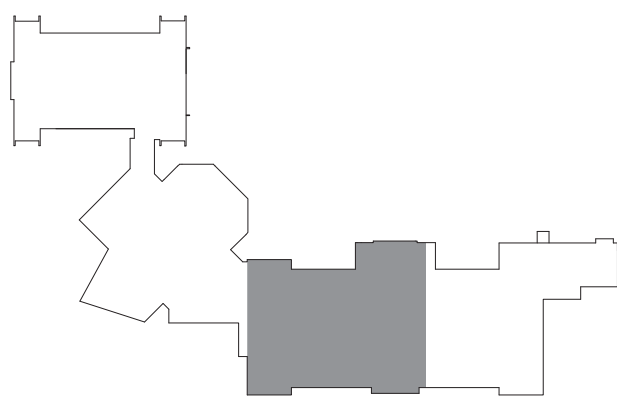
Drawing Title
FIRST FLOOR HVAC PIPING PLAN -
AREA C

Drawing Number
HMS
H301C





1 SECOND FLOOR HVAC PIPING PLAN - AREA C
H302C 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 SPILL 3/4" CONDENSATE INTO EXISTING MOP RECEPTOR.
- ② CONNECT PIPING FROM BELOW. CONNECT TO EXISTING LOUVER.

PROJECT INFORMATION

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

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405 Union Avenue, New Windsor, NY 12553

SED Number
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SHEET INFORMATION

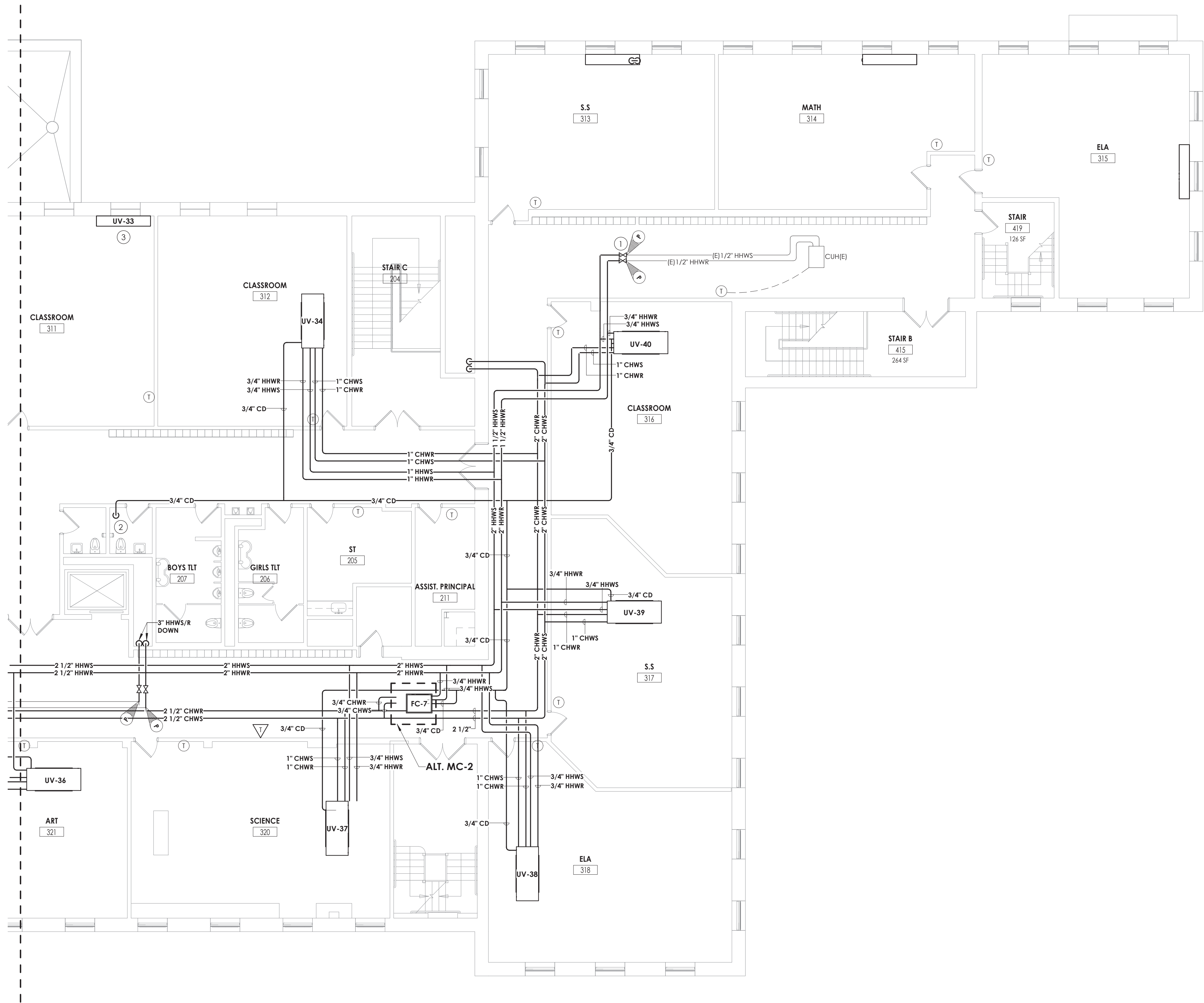
Issued
09/09/2021
Scale
As indicated
Project Status
CONSTRUCTION DOCUMENTS
Drawn By
NRH
Checked By
JJM
Drawing Title
SECOND FLOOR HVAC PIPING PLAN - AREA C

Drawing Number

HMS
H302C

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1
H302D

SECOND FLOOR HVAC PIPING PLAN - AREA D

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 INDICATED. RE-INSULATE ANY EXISTING PIPING AT CONNECTED LOCATIONS.
- SPILL CONDENSATE INTO EXISTING MOP RECEPTOR.
- CONNECT PIPING FROM BELOW. CONNECT TO EXISTING LOUVER.



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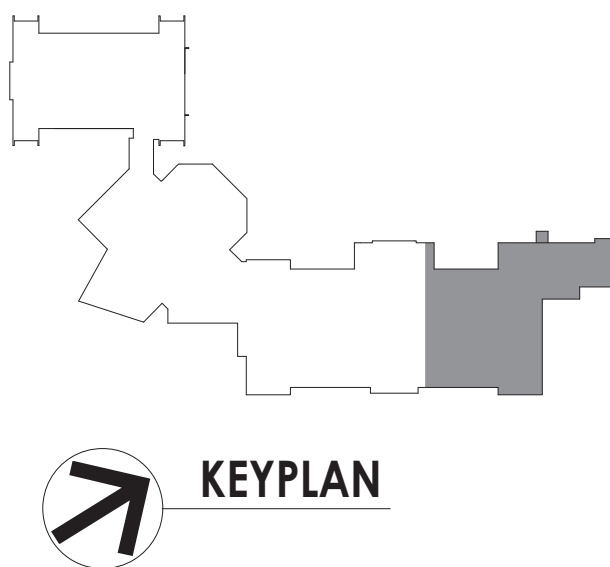
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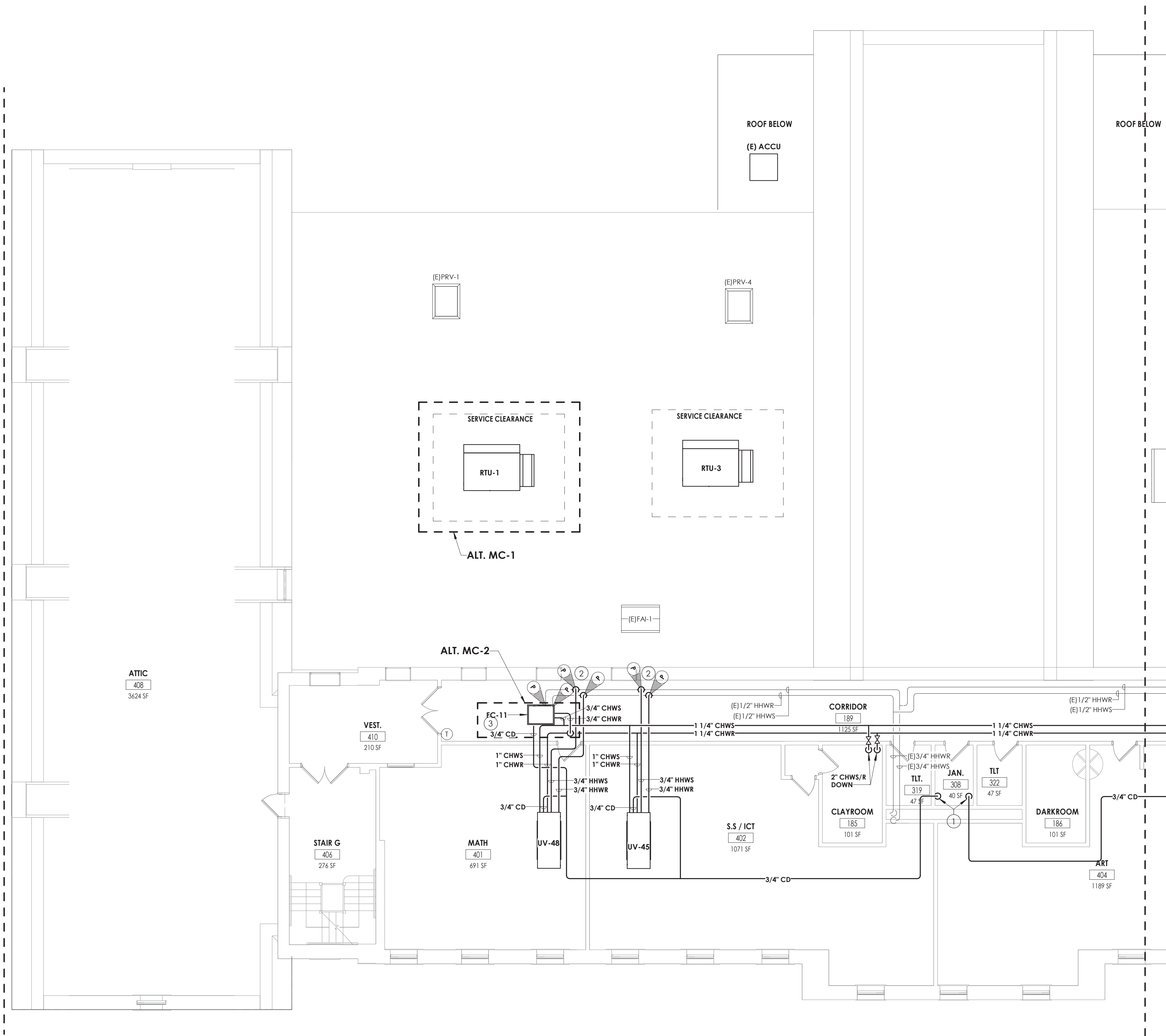
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Project Status	CONSTRUCTION DOCUMENTS		
Drawn By	NRH	Checked By	JJM
Drawing Title	SECOND FLOOR HVAC PIPING PLAN - AREA D		

Drawing Number

HMS
H302D



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1
H303C
THIRD FLOOR HVAC PIPING PLAN - AREA C
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 SPILL CONDENSATE INTO EXISTING MOP RECEPTOR.
- ② CONNECT NEW PIPING TO EXISTING PIPING AT POINTS INDICATED, RE-INSULATE ANY EXISTING PIPING AT CONNECTED LOCATIONS.
- ③ 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
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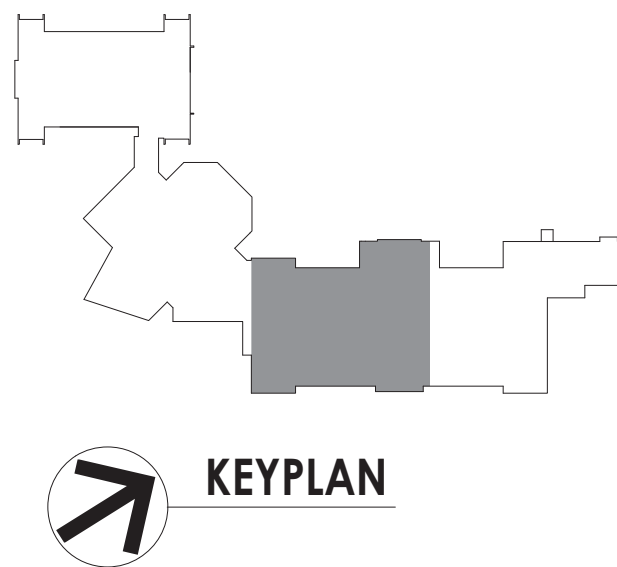
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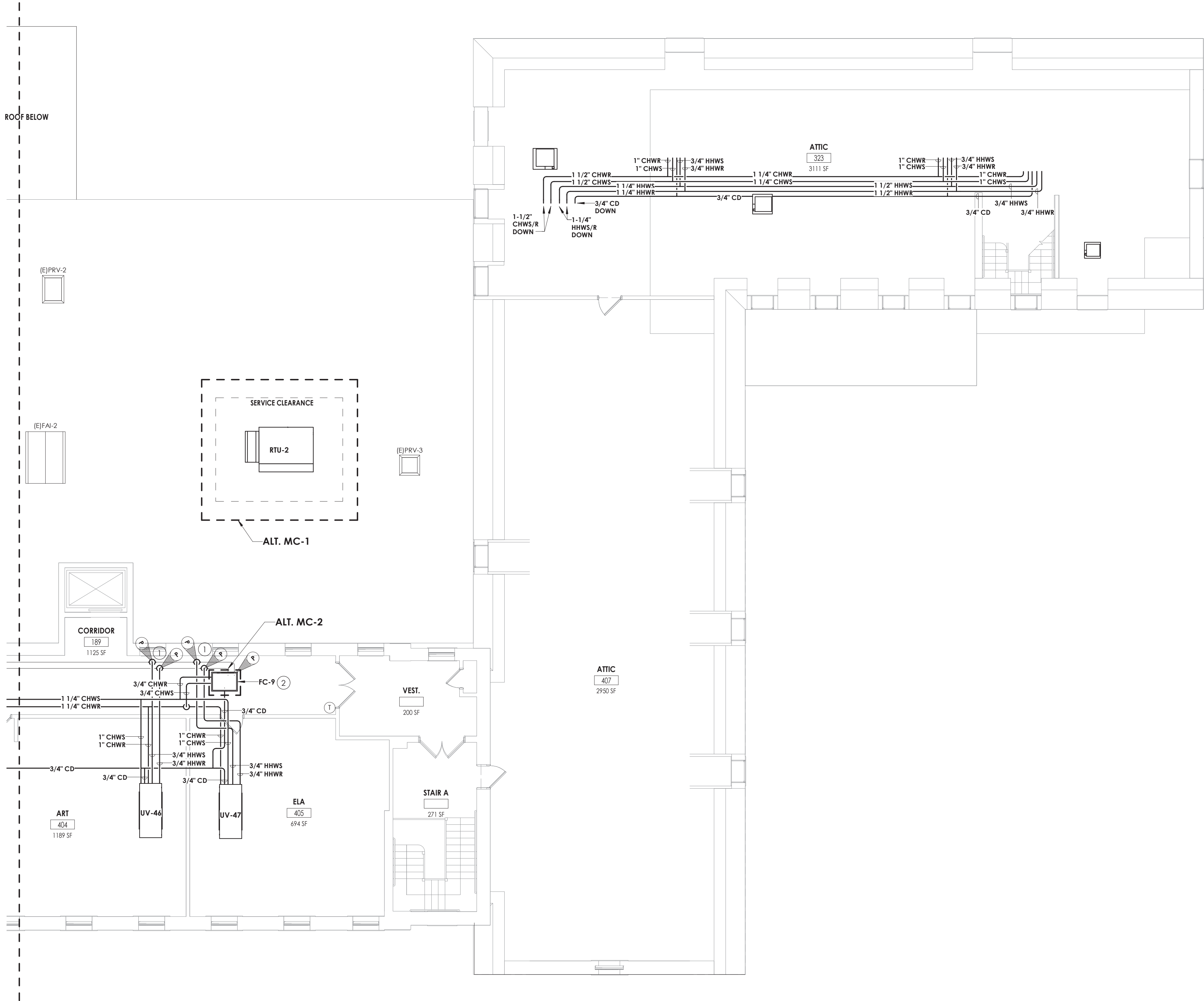
Issued
09/09/2021
Scale
As indicated
Project Status
CONSTRUCTION DOCUMENTS
Drawn By
NRH
Checked By
JJM
Drawing Title
THIRD FLOOR HVAC PIPING PLAN - AREA C

Drawing Number

HMS
H303C



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1 THIRD FLOOR HVAC PIPING PLAN - AREA D
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.

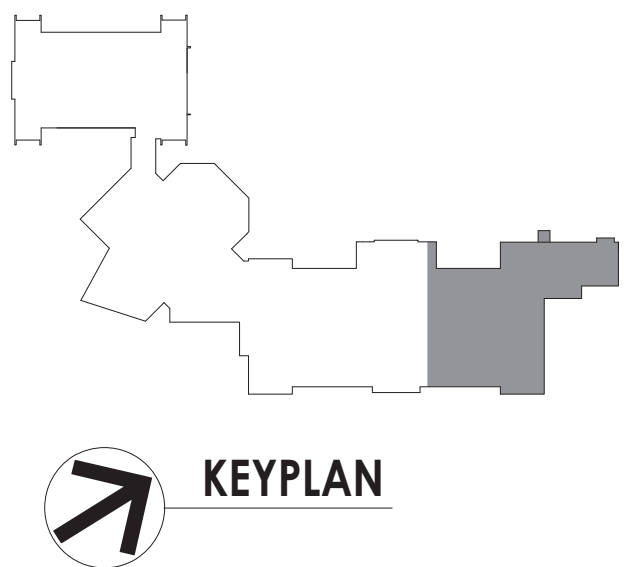
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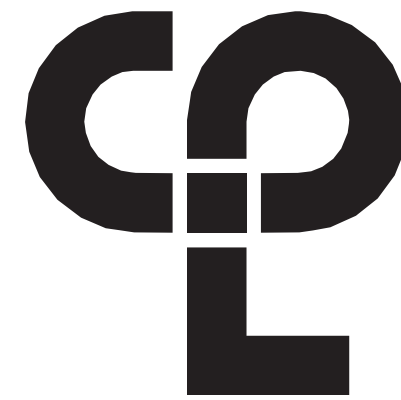
PROJECT INFORMATION		
Project Number	13940.18	
Client Name	NEWBURGH ENLARGED CITY SCHOOL DISTRICT	
Project Name	PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT	
Project Address	405 Union Avenue, New Windsor, NY 12553	
SED Number	44-16-00-01-0-039-011	
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SHEET INFORMATION		
Issued	09/09/2021	
Project Status	CONSTRUCTION DOCUMENTS	
Drawn By	NRH	Checked By JJM
Drawing Title	THIRD FLOOR HVAC PIPING PLAN - AREA D	

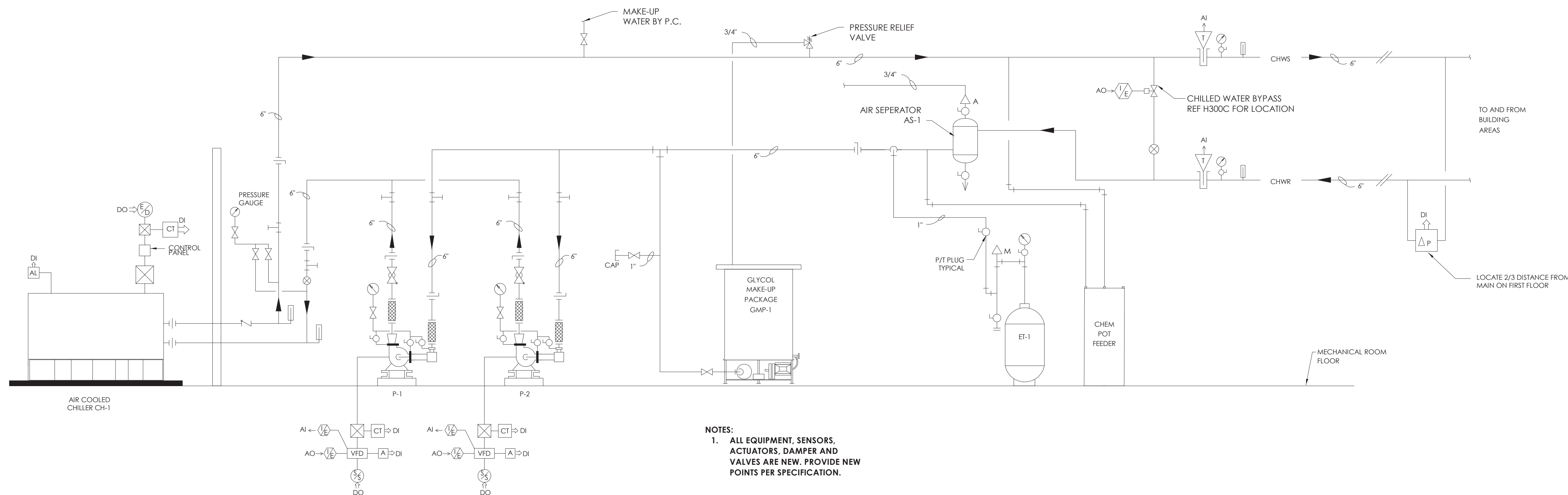
Drawing Number
HMS H303D





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- CONTROLS NOTES:
- CONFIRM ALL EXISTING CONTROLS AND SEQUENCES BEFORE REMOVAL OF ANY KIND.
 - ALL CLASSROOM TEMPERATURE SENSORS ARE TO REMAIN EXISTING AND WILL BE PRE-INSTALLED BY JOHNSON CONTROLS BEFORE THIS PROJECT HAS INITIATED.
 - UNIT VENTILATORS THAT HAVE BEEN REMOVED SHALL HAVE THE CONTROLS WIRING EXTENDED TO THE NEW LOCATION. NEW CONTROL VALVES AND NEW COOLING CONTROL POINTS.
 - UNIT VENTILATOR HEATING VALVES, DAMPERS AND FAN CONTROL POINTS ARE ALREADY PART OF THE BMS ARCHITECTURE AND SHALL BE CONFIRMED PRIOR TO WORK.
 - REFER TO THE INDIVIDUAL CONTROL DIAGRAMS AND SCHEDULES FOR MORE CONTROLS INFORMATION.



NOTES:
1. ALL EQUIPMENT, SENSORS, ACTUATORS, DAMPER AND VALVES ARE NEW. PROVIDE NEW POINTS PER SPECIFICATION.

1 CHILLED WATER SYSTEM CONTROL SCHEMATIC

SCALE: NOT TO SCALE

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

09/09/2021

Scale

12" = 1'-0"

Project Status

CONSTRUCTION DOCUMENTS

Drawn By

NRH

Checked By

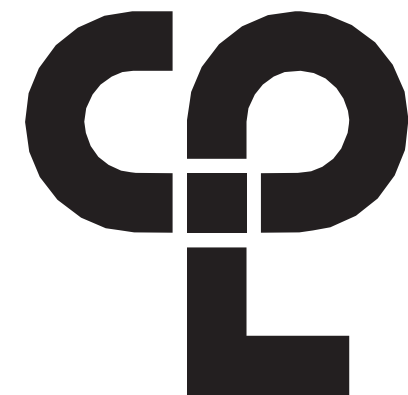
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Drawing Title

HVAC CONTROL SCHEMATICS

Drawing Number

HMS
H500



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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

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405 Union Avenue, New Windsor, NY 12553

SED Number

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

PROJECT ISSUE SCHEDULE

No.

Date

Description

CONTROLS NOTES:

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- ALL CLASSROOM TEMPERATURE SENSORS ARE TO REMAIN EXISTING AND WILL BE PRE INSTALLED BY JOHNSON CONTROLS BEFORE THIS PROJECT HAS INITIATED.
- UNIT VENTILATORS THAT HAVE BEEN REMOVED SHALL HAVE THE CONTROLS WIRING EXTENDED TO THE NEW LOCATION. NEW CONTROL VALVES AND NEW COOLING CONTROL POINTS.
- UNIT VENTILATOR HEATING VALVES, DAMPERS AND FAN CONTROL POINTS ARE ALREADY PART OF THE BMS ARCHITECTURE AND SHALL BE CONFIRMED PRIOR TO WORK.
- REFER TO THE INDIVIDUAL CONTROL DIAGRAMS AND SCHEDULES FOR MORE CONTROLS INFORMATION.

NOTES:

- ALL EQUIPMENT, SENSORS, ACTUATORS, DAMPER AND VALVES ARE NEW. PROVIDE NEW POINTS PER SPECIFICATION.

3
H501

GLYCOL PUMP MONITORING

SCALE: NOT TO SCALE

NOTES:

- EXTEND EXISTING JCI CONTROL POINTS TO NEW UNIT. PROVIDE NEW POINTS FOR ASSOCIATED COOLING.
- ASSOCIATED RELIEF FANS REQUIRE ALL NEW CONTROLS AND WIRING.
- ALL EQUIPMENT, SENSORS, ACTUATORS, DAMPER AND VALVES ARE NEW.

2
H501

ABOVE CEILING UNIT VENTILATOR CONTROL SCHEMATIC

NOT TO SCALE

SEQUENCE OF OPERATIONS:

- DUST COLLECTOR AND ASSOCIATED MAKEUP AIR UNIT SHALL OPERATE WHEN ON/OFF SWITCH IS ACTIVATED.
- CONTROL VALVE SHALL MODULATE TO MAINTAIN SETPOINT (70F ADJ.).
- DUST COLLECTOR AND ASSOCIATED MAKEUP AIR UNIT SHALL STOP OPERATION WHEN ON/OFF SWITCH IS DE-ACTIVATED.
- UNIT VENTILATOR IN SPACE SHALL BE OFF DURING DUST COLLECTOR OPERATION.

NOTES:

- ALL EQUIPMENT, SENSORS, ACTUATORS, DAMPER AND VALVES ARE NEW.
- ALL POINTS ARE NEW.

ALARMS

- FAN START FAILURE.
- FAN STOP FAILURE.
- DISCHARGE AIR TEMPERATURE BELOW 40F.
- CONTROL VALVE FAILURE.
- OA DAMPER FAILURE.

5
H501

DUST COLLECTOR MAKEUP AIR CONTROL SCHEMATIC

NOT TO SCALE

NOTES:

- EXTEND EXISTING JCI CONTROL POINTS TO NEW UNIT. PROVIDE NEW POINTS FOR ASSOCIATED COOLING.
- ASSOCIATED RELIEF FANS REQUIRE ALL NEW CONTROLS AND WIRING.
- ALL EQUIPMENT, SENSORS, ACTUATORS, DAMPER AND VALVES ARE NEW.

4
H501

FLOOR MOUNTED UNIT VENTILATOR CONTROL SCHEMATIC

NOT TO SCALE

AHU-1,2,3,4 CONTROL SCHEMATIC

NOT TO SCALE

1
H501

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SHEET INFORMATION

Issued

09/09/2021

Project Status

CONSTRUCTION DOCUMENTS

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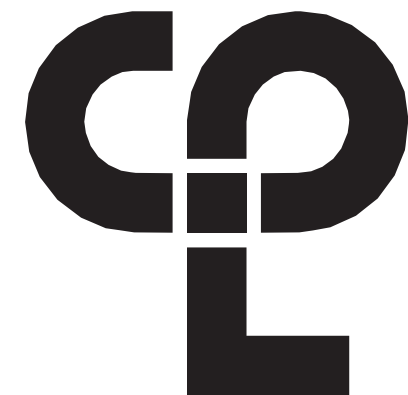
NRH

Drawing Title

HVAC CONTROL SCHEMATICS

Drawing Number

HMS
H501



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NEWBURGH, NY 12550
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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

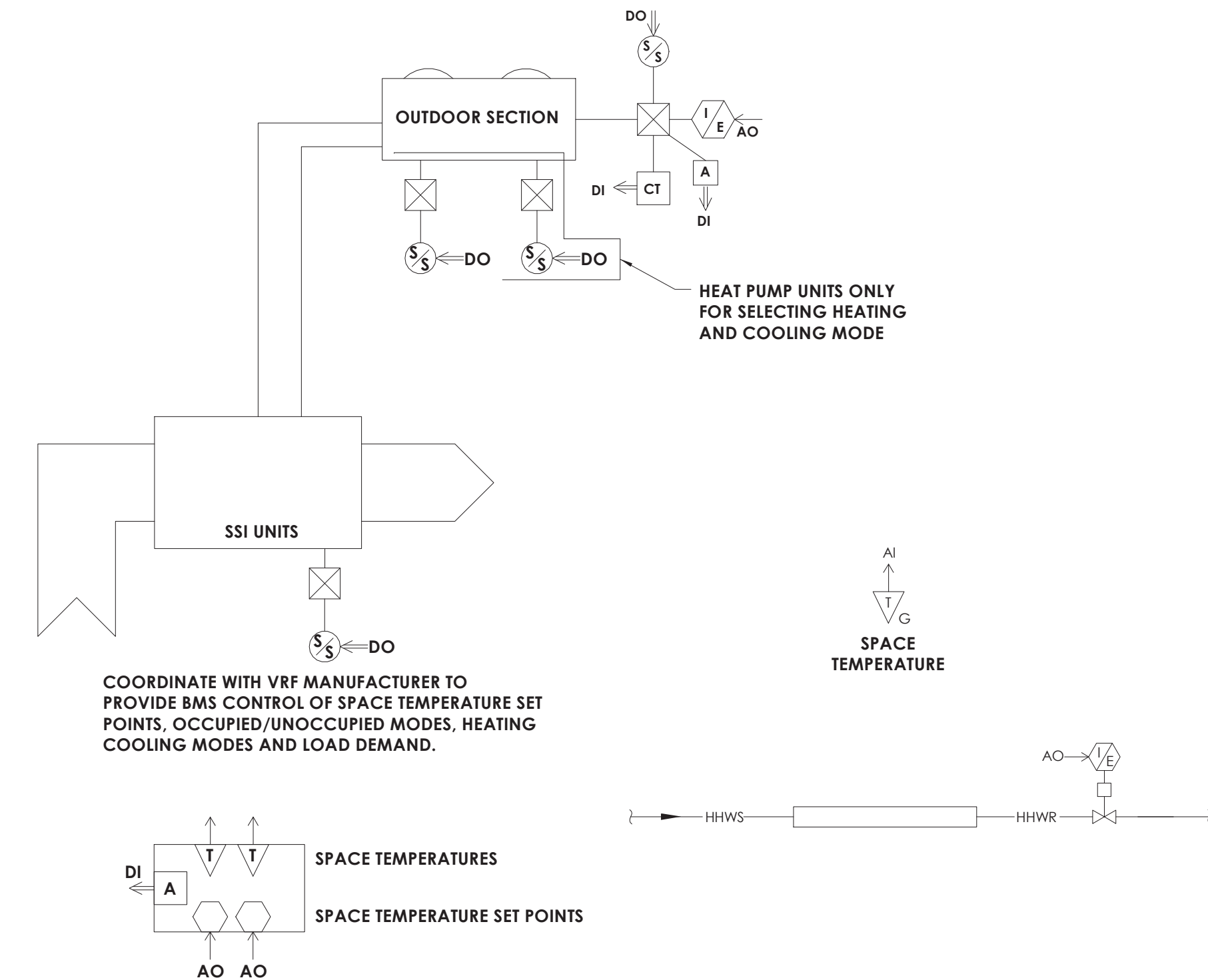
Project Address
405 Union Avenue, New Windsor, NY 12553

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

PROJECT ISSUE SCHEDULE

No. Date Description

- CONTROLS NOTES:
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 - UNIT VENTILATORS THAT HAVE BEEN REMOVED SHALL HAVE THE CONTROLS WIRING EXTENDED TO THE NEW LOCATION, NEW CONTROL VALVES AND NEW COOLING CONTROL POINTS.
 - UNIT VENTILATOR HEATING VALVES, DAMPERS AND FAN CONTROL POINTS ARE ALREADY PART OF THE BMS ARCHITECTURE AND SHALL BE CONFIRMED PRIOR TO WORK.
 - REFER TO THE INDIVIDUAL CONTROL DIAGRAMS AND SCHEDULES FOR MORE CONTROLS INFORMATION.



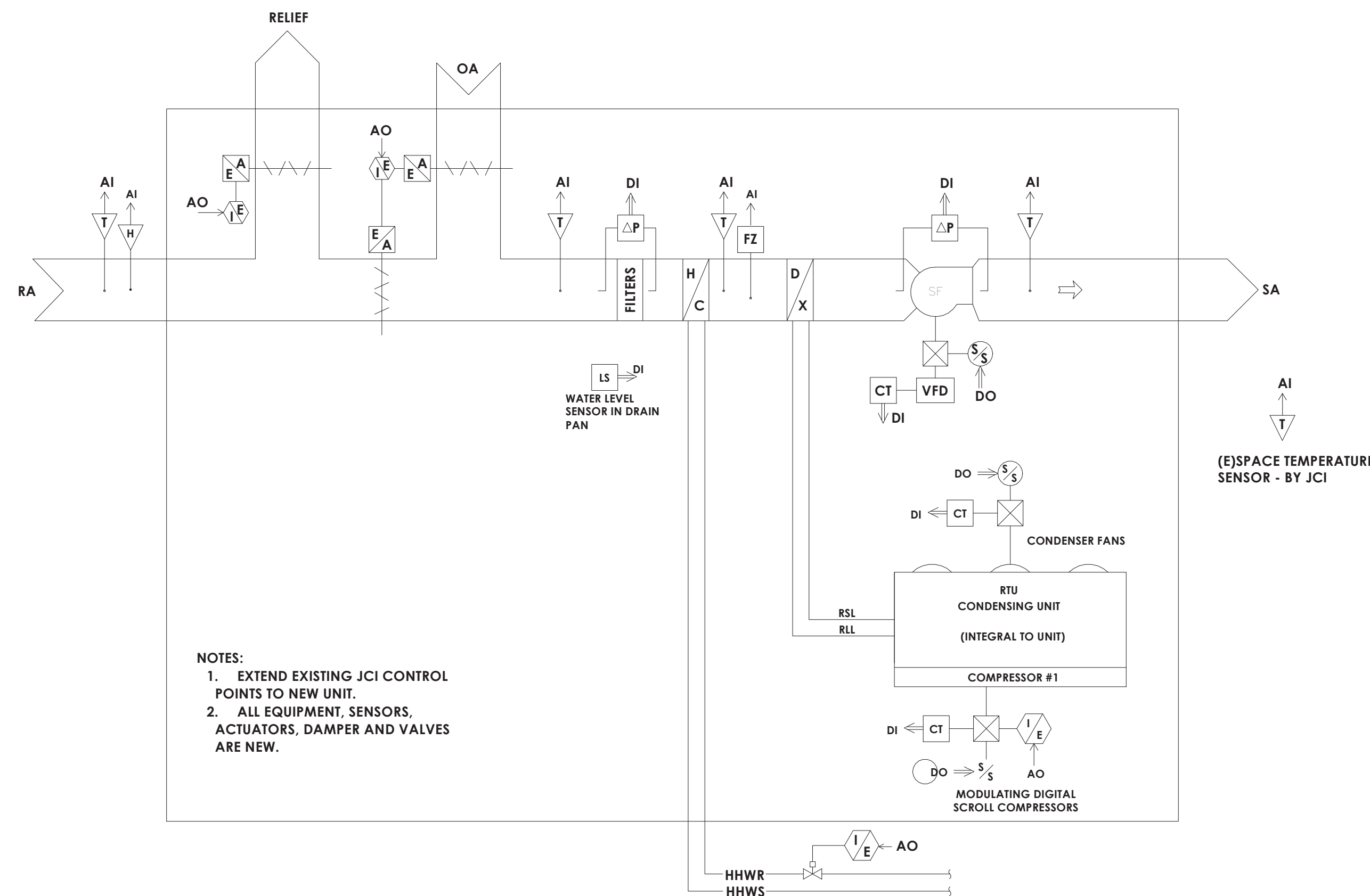
BACNET GATEWAY:
BMS TO READ SPACE TEMPERATURES FOR EACH VRF ZONE THROUGH THE BACNET GATEWAY.

BMS TO SET SPACE TEMPERATURE SET POINT THROUGH THE BACNET GATEWAY.
BMS TO READ GENERAL ALARM CONDITION FROM THE BACNET GATEWAY.
SPACE SENSORS ARE VRF OEM SENSORS.

- NOTES:
- ALL EQUIPMENT, SENSORS, ACTUATORS, DAMPER, POINTS AND VALVES ARE NEW.

1 SPLIT SYSTEM CONTROLS SCHEMATIC

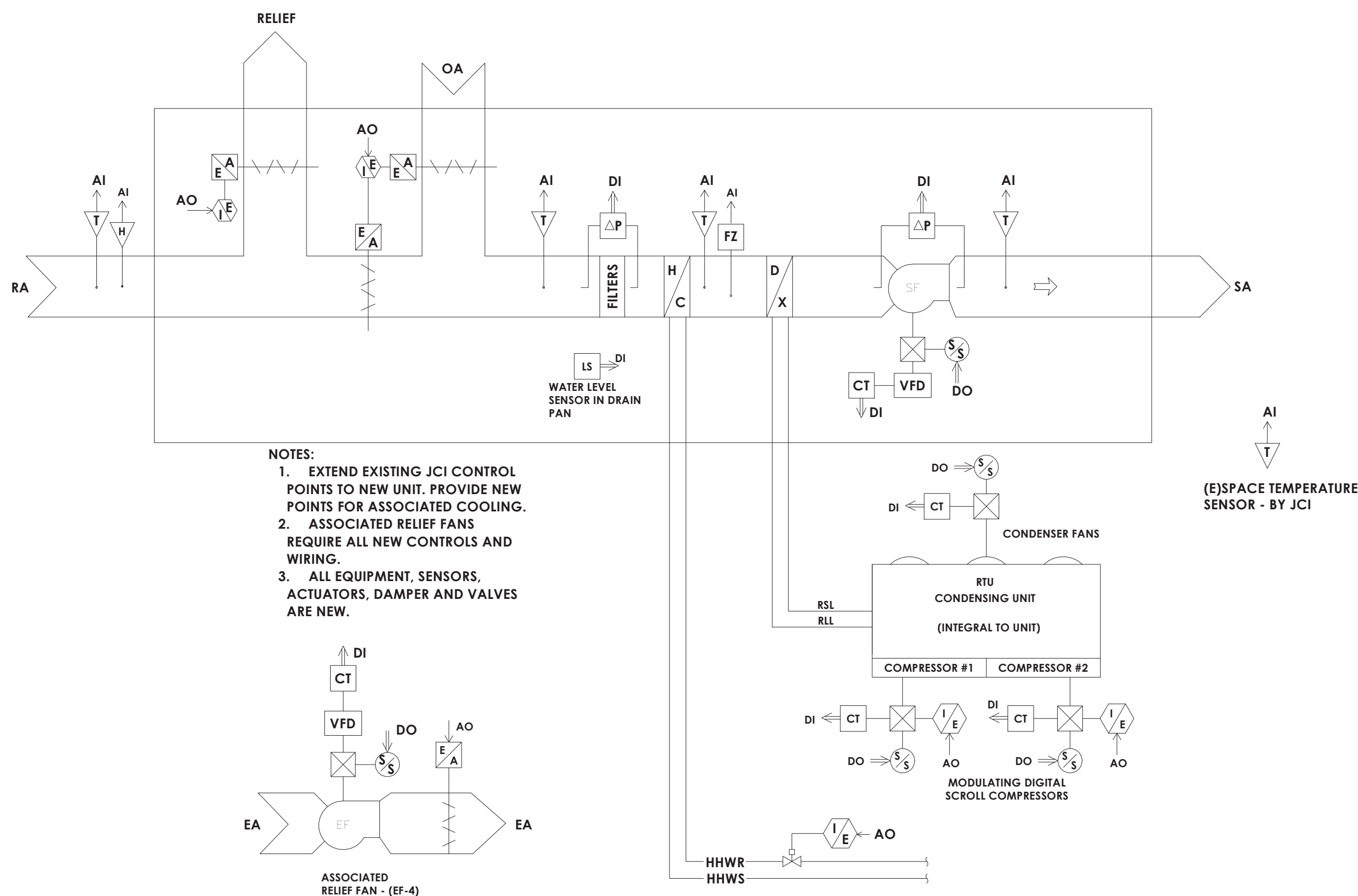
H502 NOT TO SCALE



- NOTES:
- EXTEND EXISTING JCI CONTROL POINTS TO NEW UNIT.
 - ALL EQUIPMENT, SENSORS, ACTUATORS, DAMPER AND VALVES ARE NEW.

2 RTU-1,2,3 CONTROL SCHEMATIC

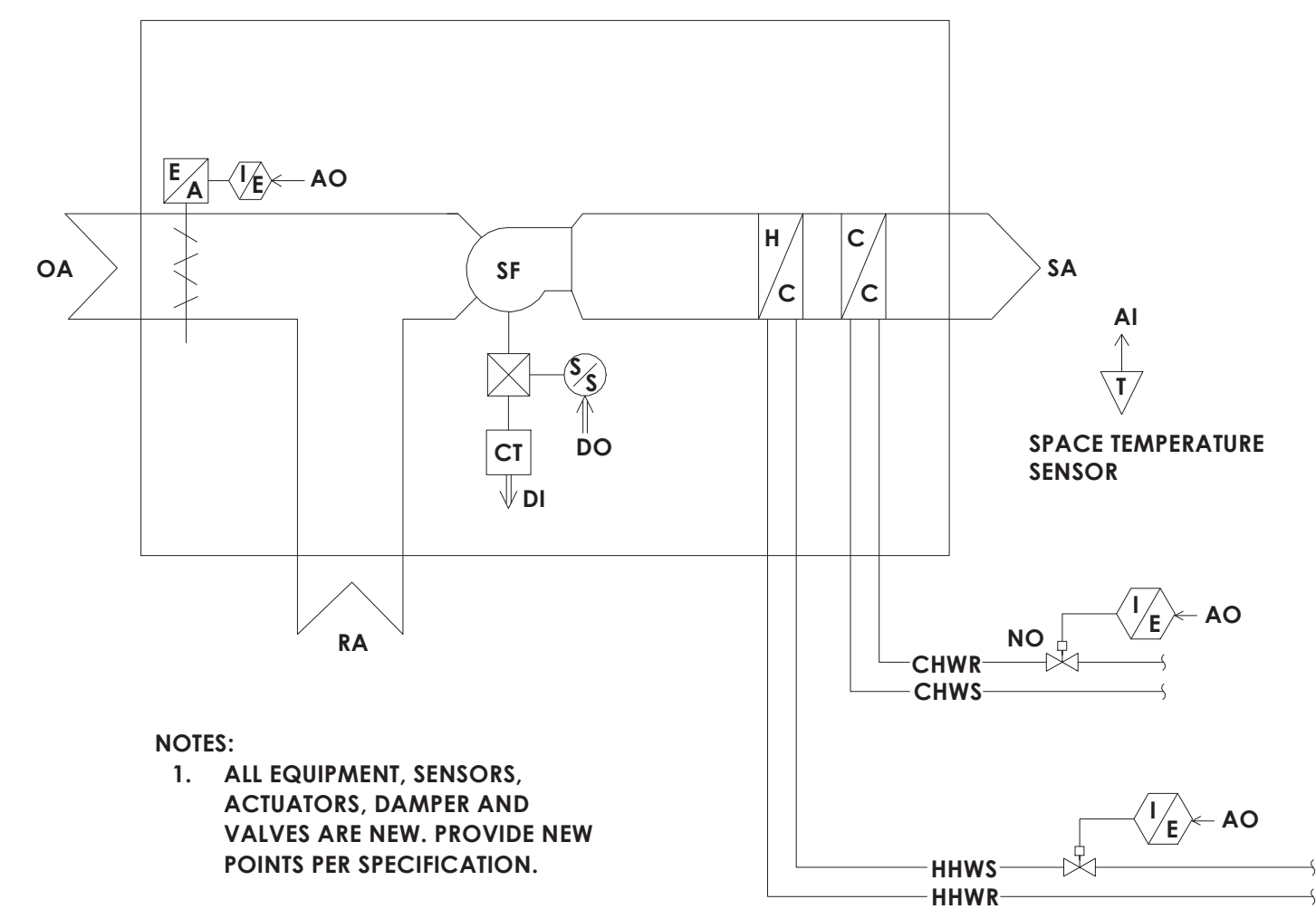
H502 NOT TO SCALE



- NOTES:
- EXTEND EXISTING JCI CONTROL POINTS TO NEW UNIT. PROVIDE NEW POINTS FOR ASSOCIATED COOLING.
 - ASSOCIATED RELIEF FANS REQUIRE ALL NEW CONTROLS AND WIRING.
 - ALL EQUIPMENT, SENSORS, ACTUATORS, DAMPER AND VALVES ARE NEW.

3 AHU-6 (MUSIC) CONTROL SCHEMATIC

H502 NOT TO SCALE



- NOTES:
- ALL EQUIPMENT, SENSORS, ACTUATORS, DAMPER AND VALVES ARE NEW. PROVIDE NEW POINTS PER SPECIFICATION.

4 FAN COIL TYPICAL CONTROLS DIAGRAM - ALTERNATE MC-2

H502 SCALE: NOT TO SCALE

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Scale
12" = 1'-0"

Project Status
CONSTRUCTION DOCUMENTS

Drawn By
NRH

Checked By
JJM

Drawing Title
HVAC CONTROL SCHEMATICS

Drawing Number

HMS
H502



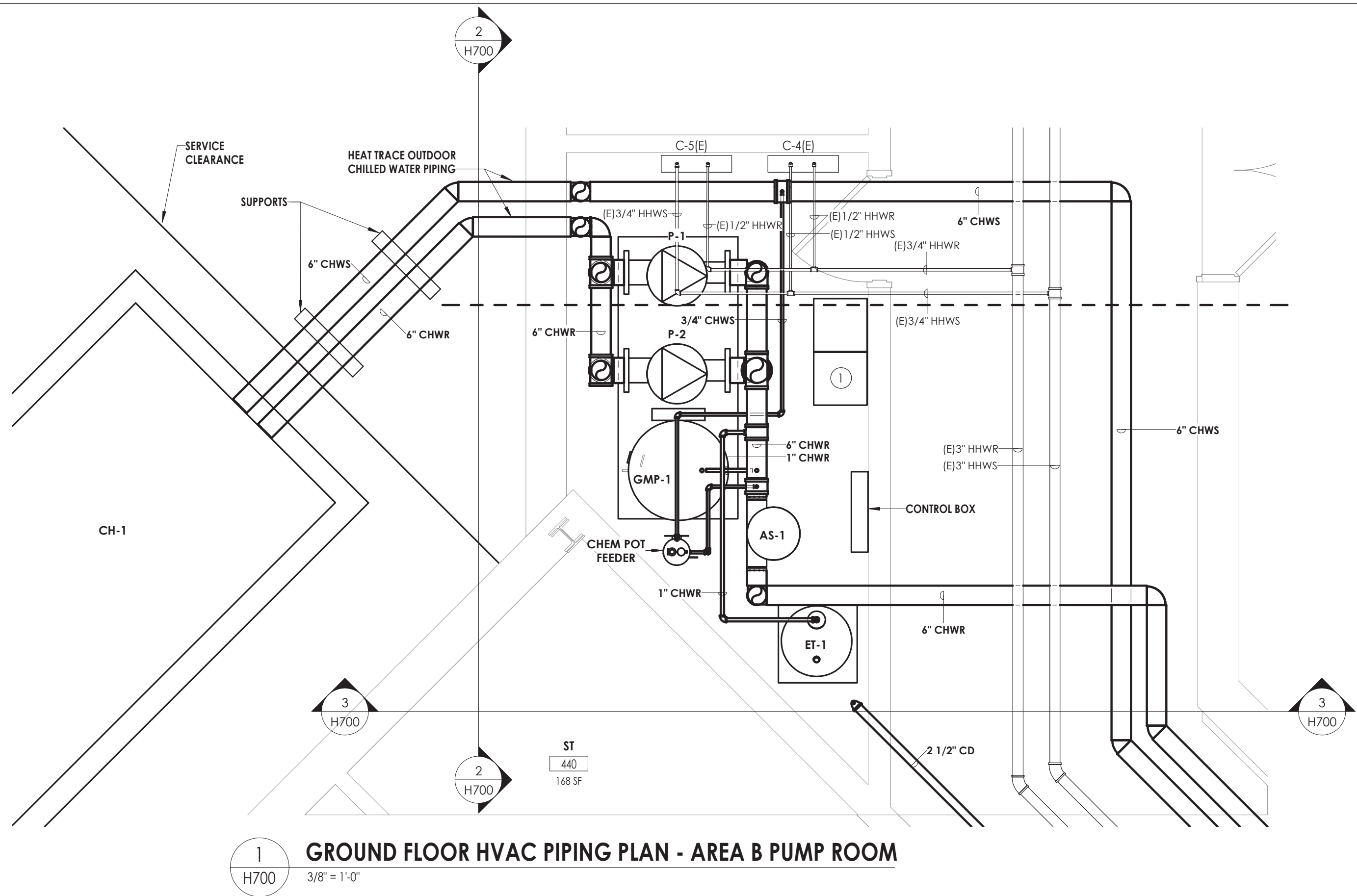
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PROJECT ISSUE SCHEDULE		
No.	Date	Description

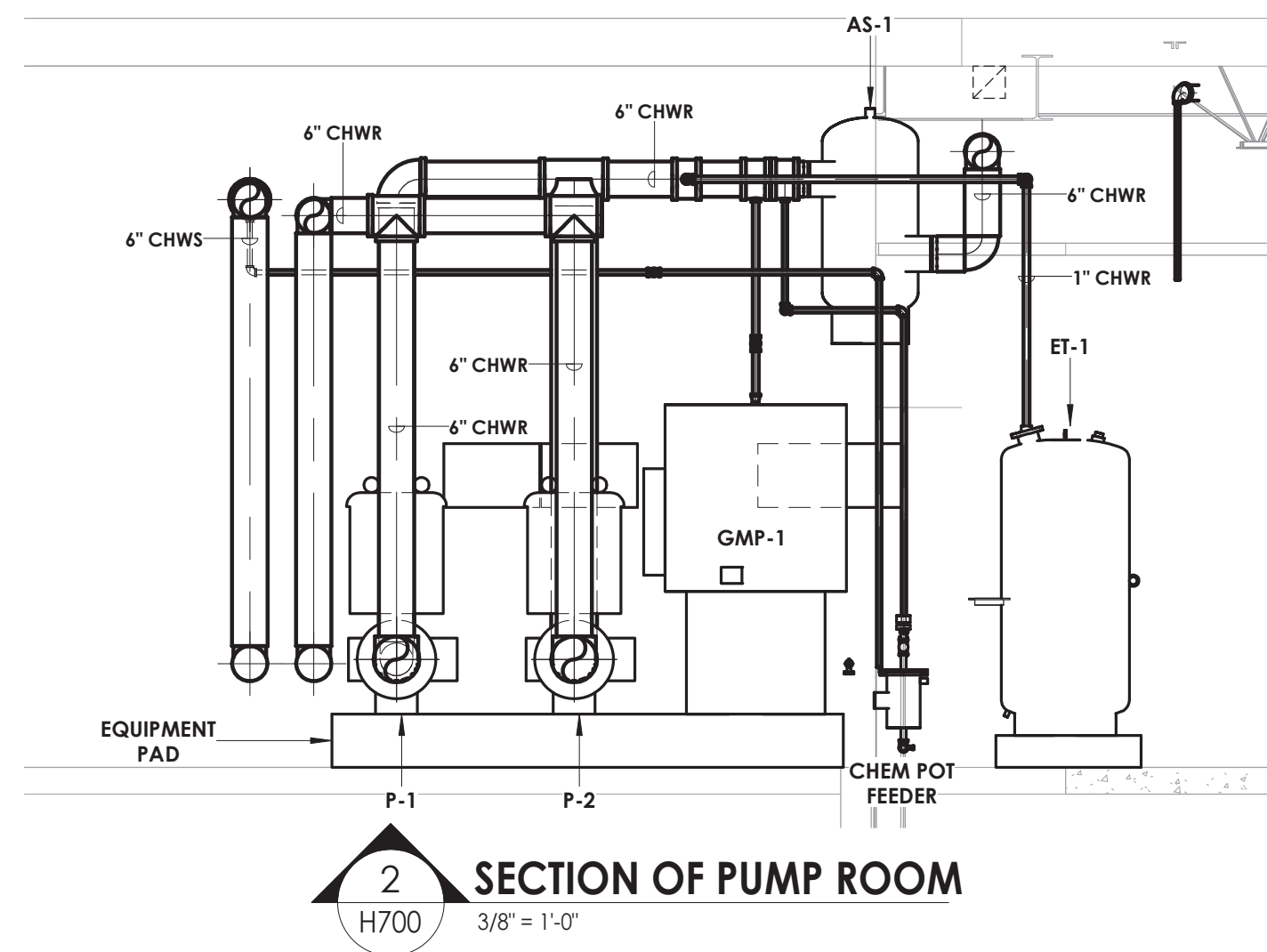
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H503

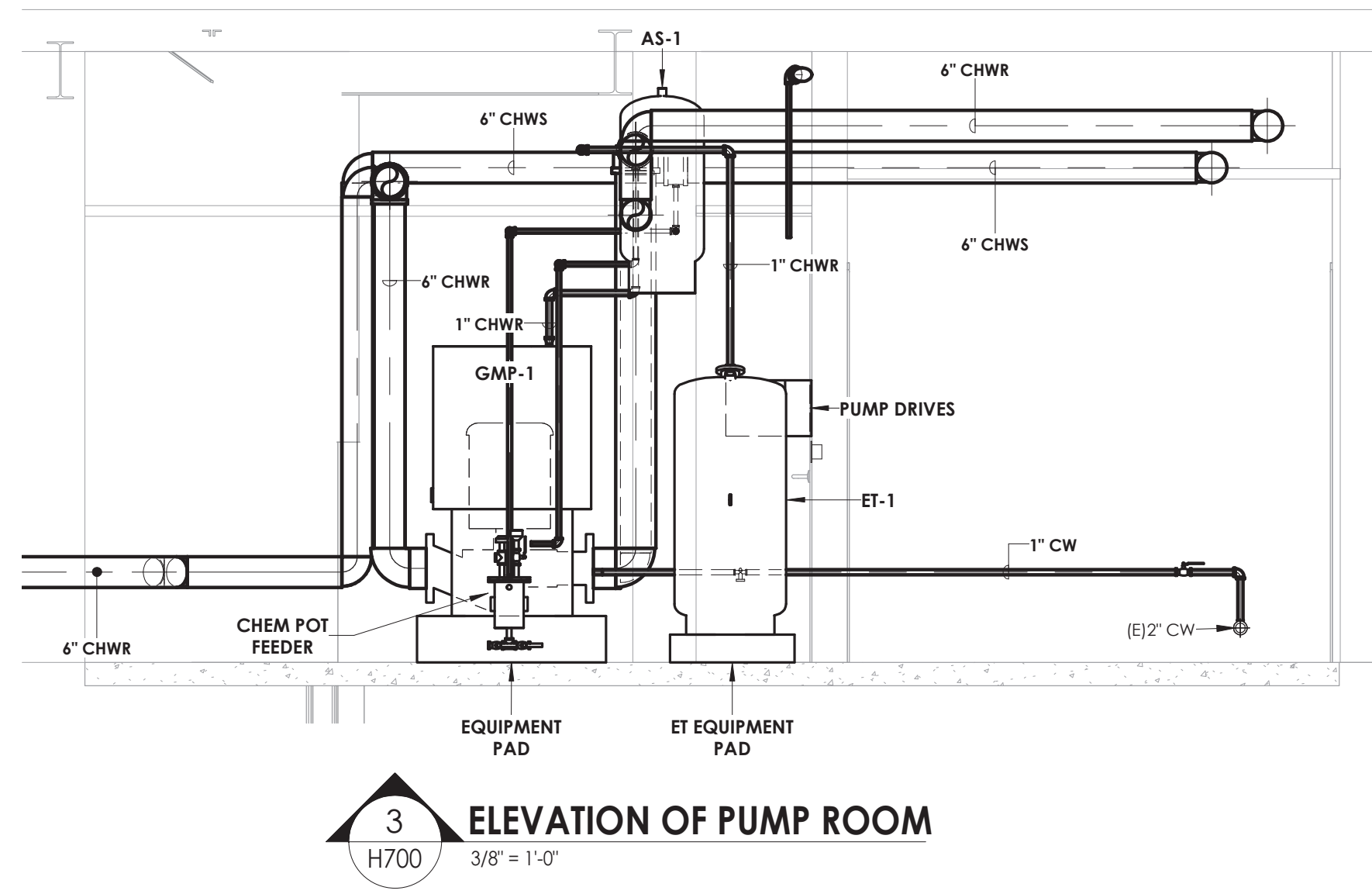
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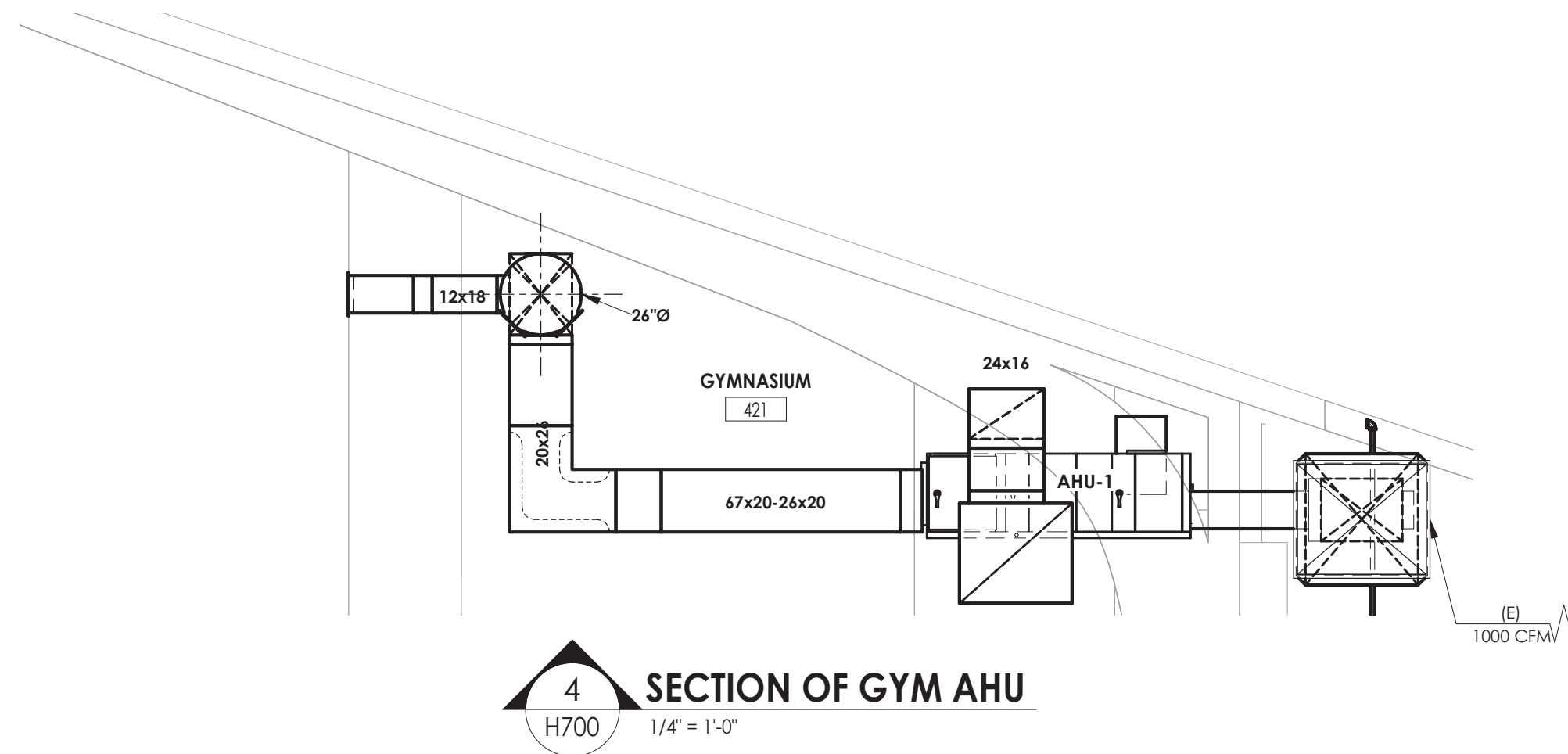
1 GROUND FLOOR HVAC PIPING PLAN - AREA B PUMP ROOM
3/8\"/>



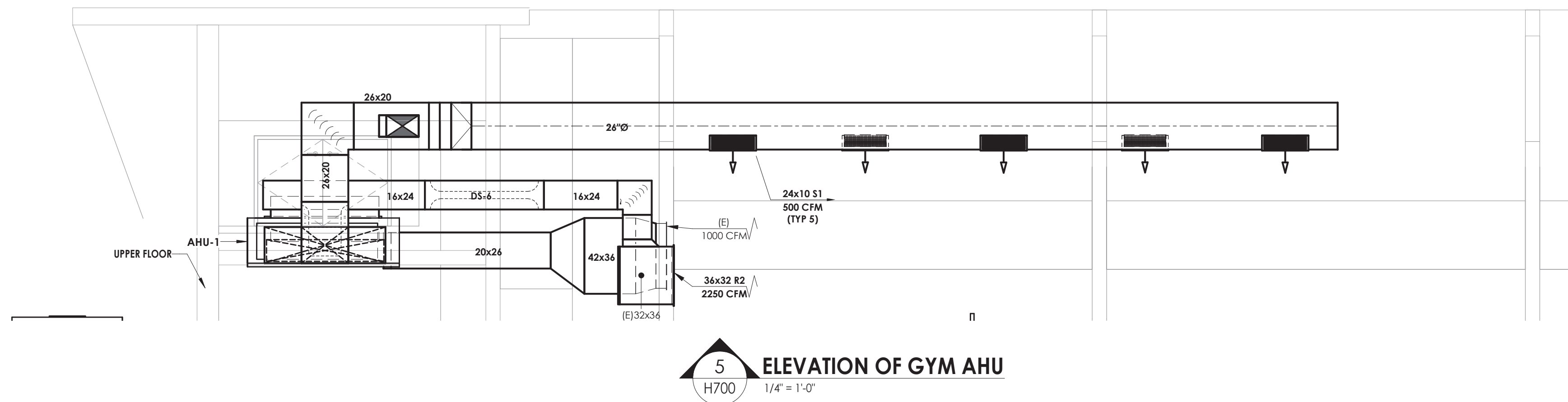
2 SECTION OF PUMP ROOM
3/8\"/>



3 ELEVATION OF PUMP ROOM
3/8\"/>



4 SECTION OF GYM AHU
1/4\"/>



5 ELEVATION OF GYM AHU
1/4\"/>

KEY NOTES

- 1 PUMP DRIVES.



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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

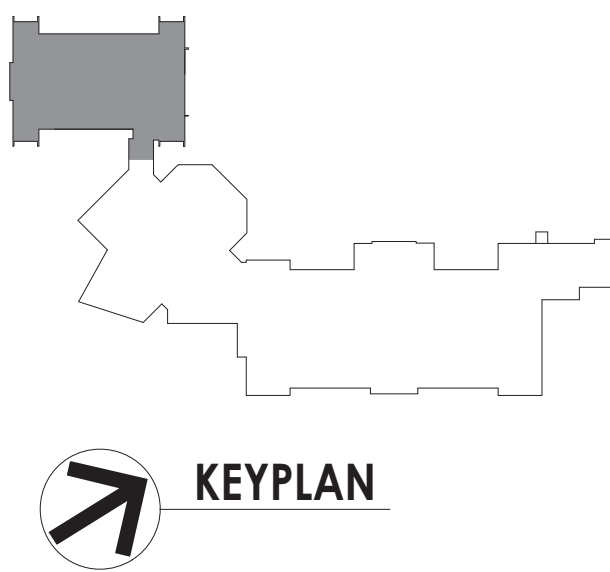
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ARCHITECT, ENGINEER OR LAND SURVEYOR TO ALTER AN ITEM
IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT,
ENGINEER OR SURVEYOR IS ALTERED. THE ALTERING PARTY
SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION
"ALTERED BY" FOLLOWED BY THEIR SIGNATURE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

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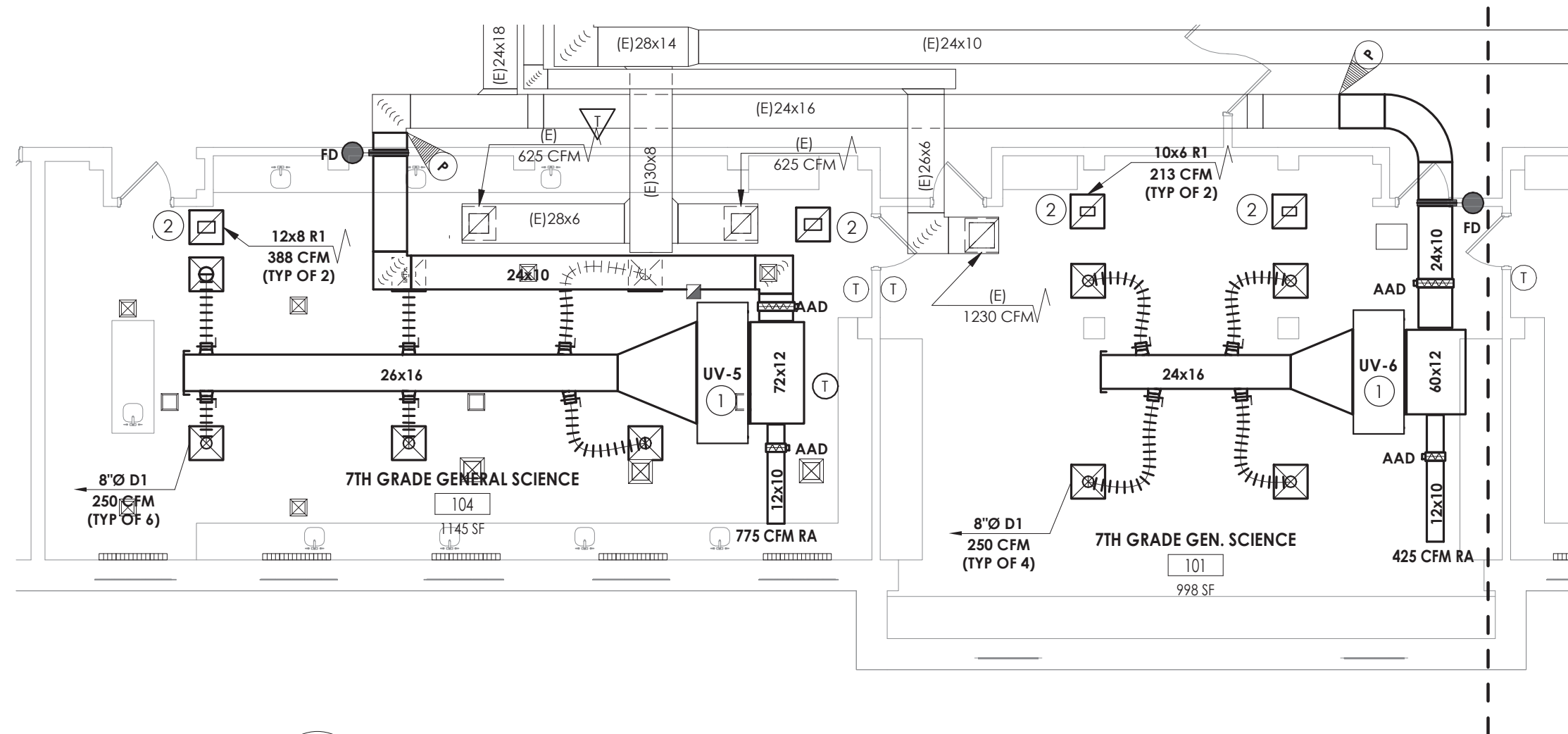
Issued
09/09/2021
Project Status
CONSTRUCTION DOCUMENTS
Drawn By
NRH
Drawing Title
HVAC ENLARGED PLANS

Drawing Number

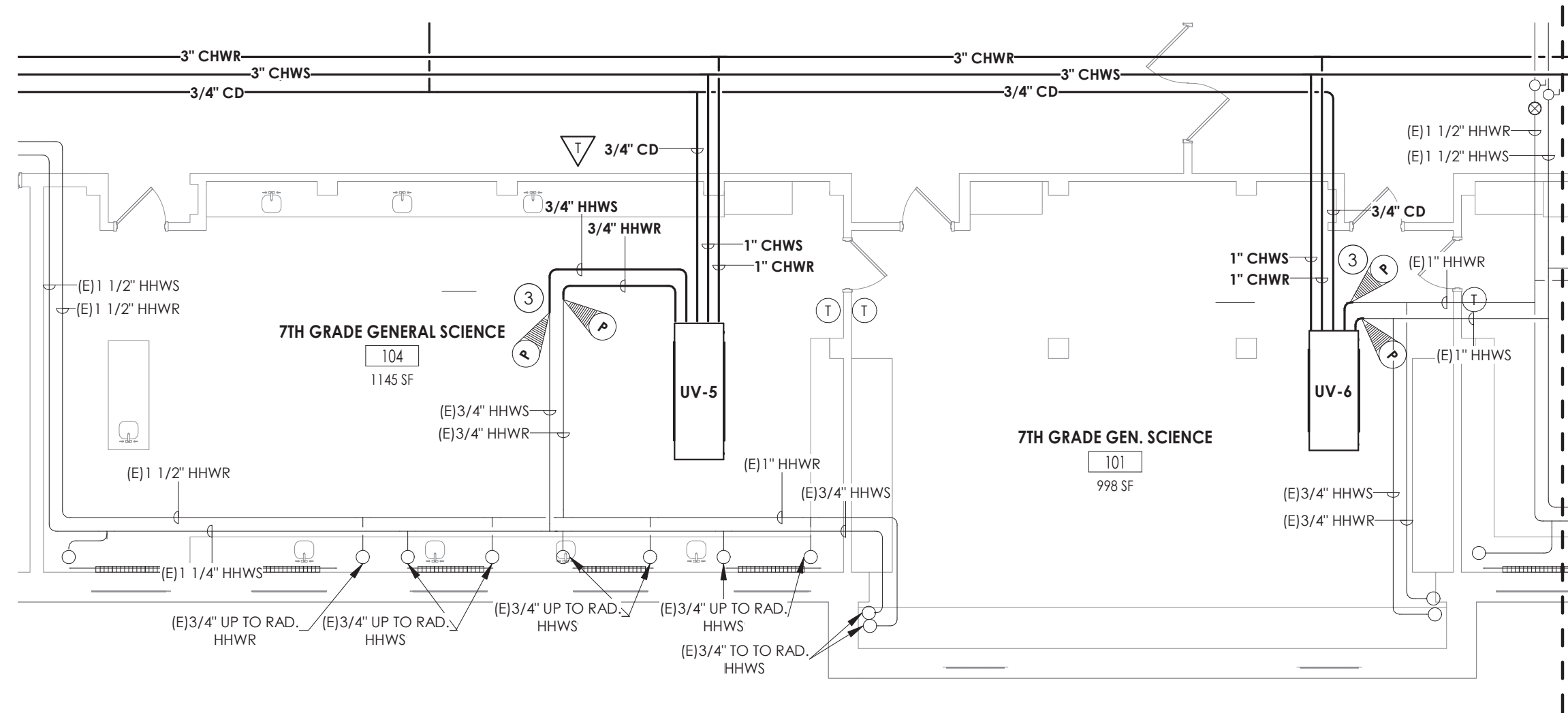
HMS
H700



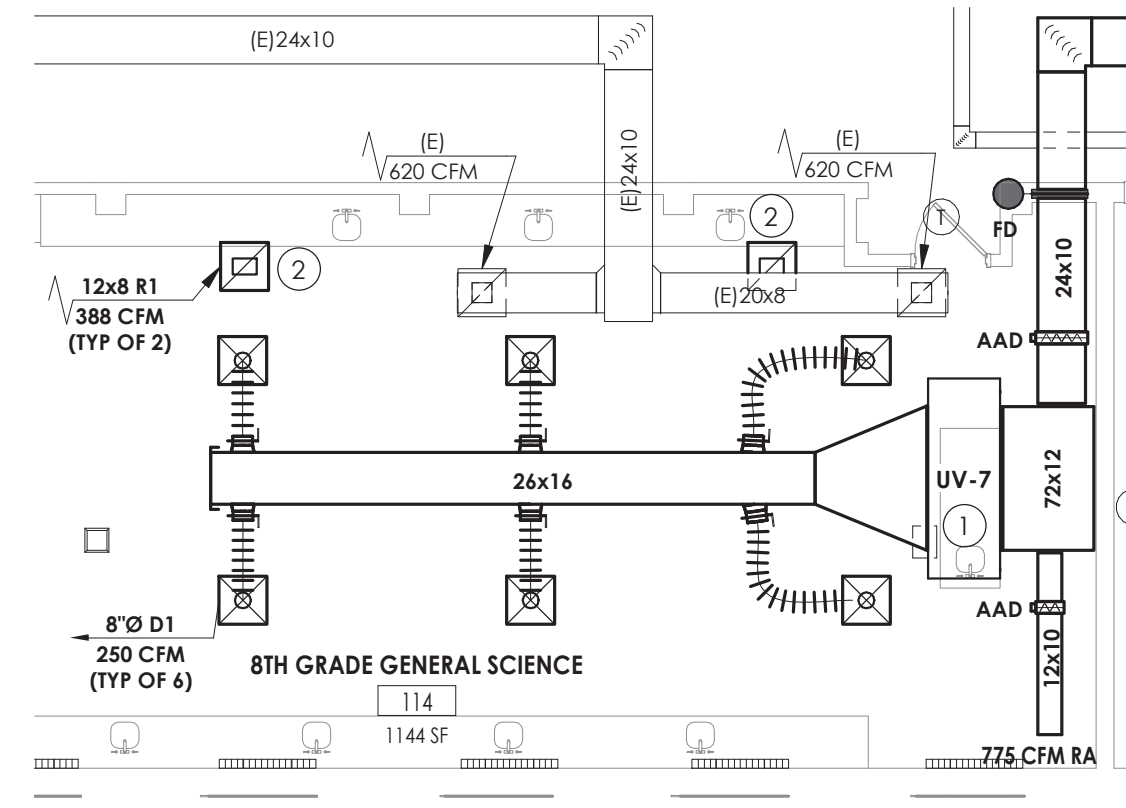
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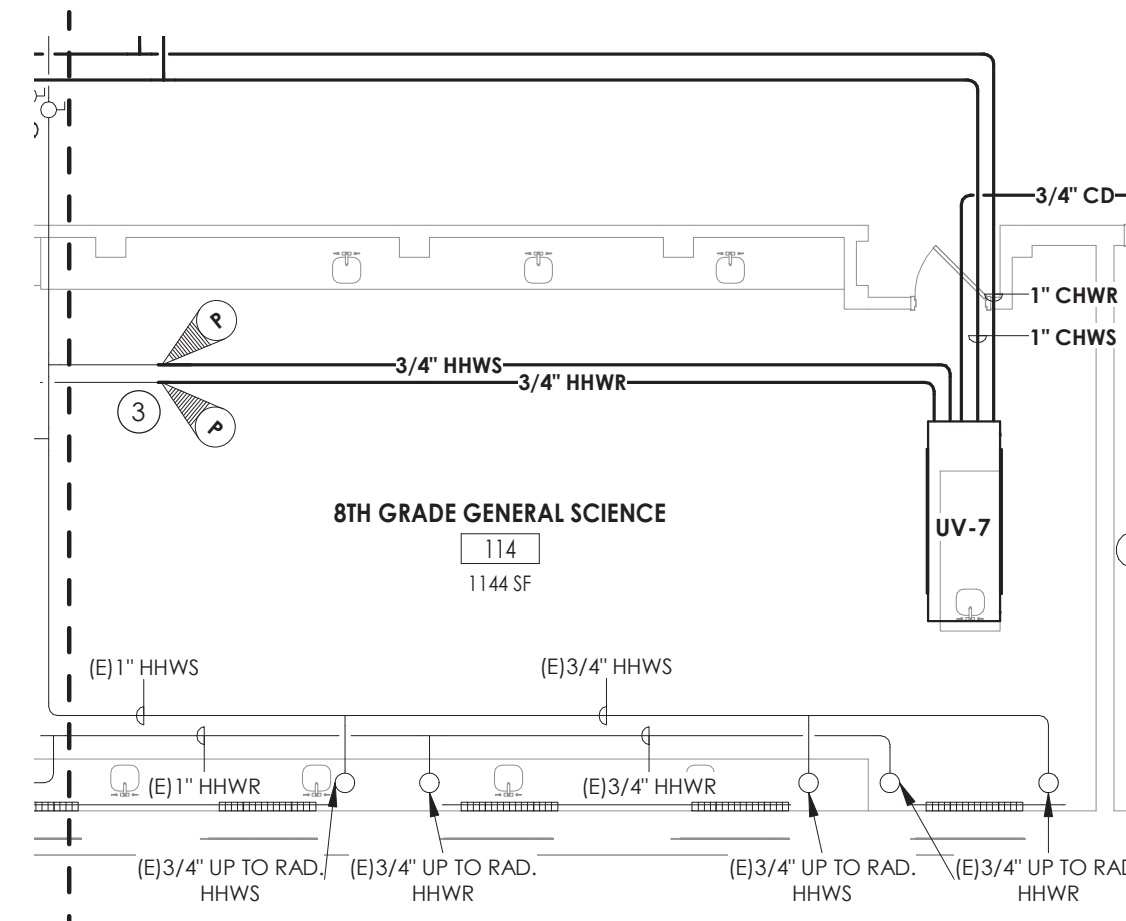
1
H701
GROUND FLOOR HVAC DUCTWORK - AREA C ALTERNATE MC-3
1/8" = 1'-0"



2
H701
GROUND FLOOR HVAC PIPING PLAN - AREA C ALTERNATE MC-3
1/8" = 1'-0"



3
H701
GROUND FLOOR HVAC DUCTWORK - AREA D ALTERNATE MC-3
1/8" = 1'-0"



4
H701
GROUND FLOOR HVAC PIPING PLAN - AREA D ALTERNATE MC-3
1/8" = 1'-0"

KEY NOTES

- 1 MOUNT UNIT VENTILATOR ABOVE CEILING. COORDINATE WITH ANY CEILING UTILITIES. MAINTAIN ACCESS FOR FILTER CHANGES. ALL SUPPLY AND RETURN DUCTWORK SHALL BE LINED. EXTEND EXISTING CONTROLS TO NEW UNIT LOCATION.
- 2 PLENUM RETURN.
- 3 CONNECT NEW PIPING TO EXISTING PIPING AT POINTS INDICTAED. RE-INSULATE ANY EXISTING PIPING AT CONNECTED LOCATIONS.



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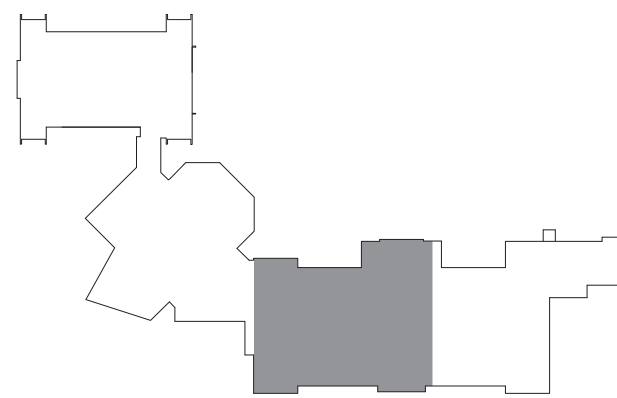
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13940.18
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SCHOOL DISTRICT**
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No.	Date	Description
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KEYPLAN

SHEET INFORMATION

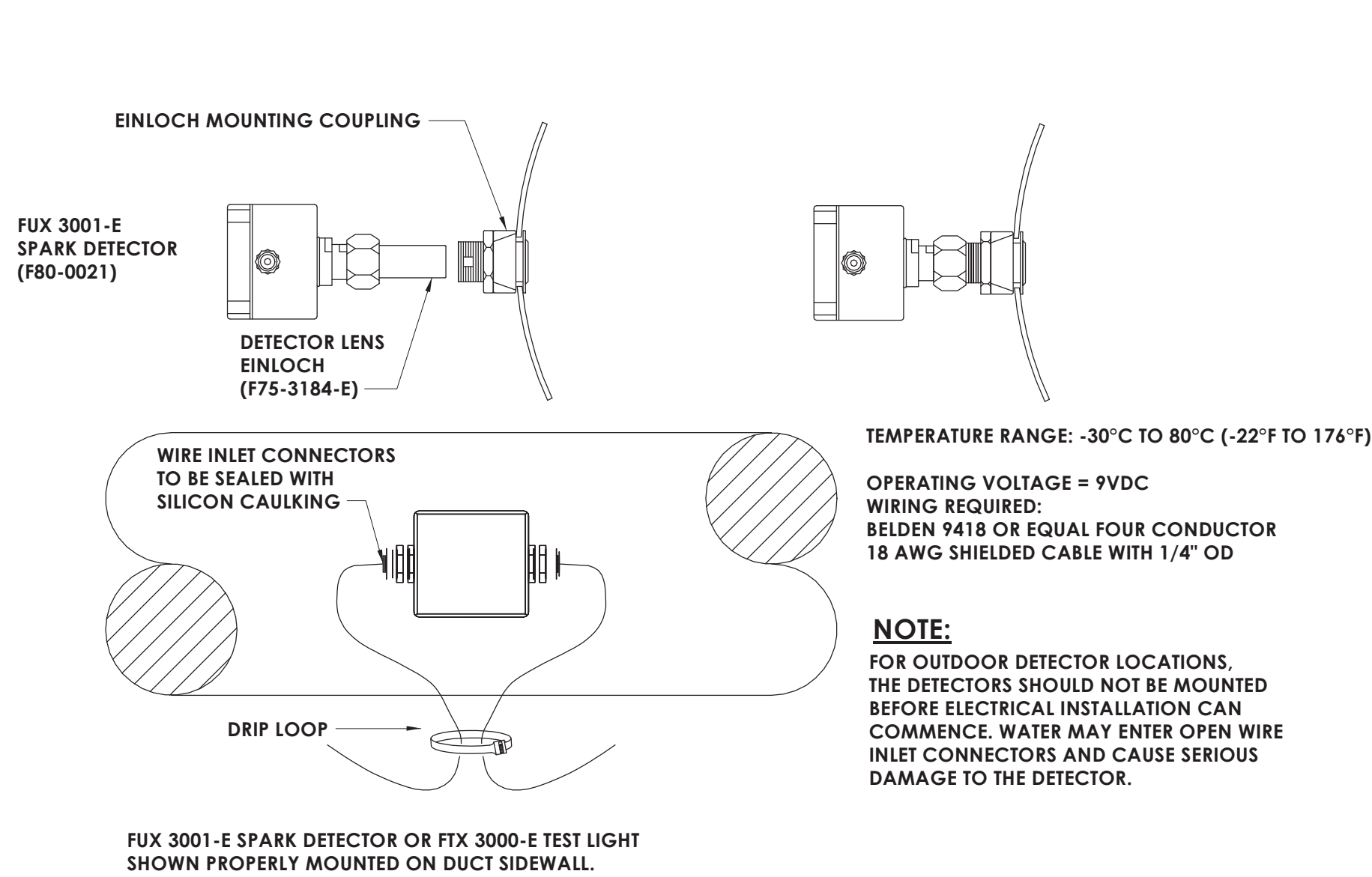
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09/09/2021	As indicated
Project Status	
CONSTRUCTION DOCUMENTS	
Drawn By	Checked By
NRH	JJM
Drawing Title	
HVAC ALTERNATE PLANS	

Drawing Number

HMS
H701

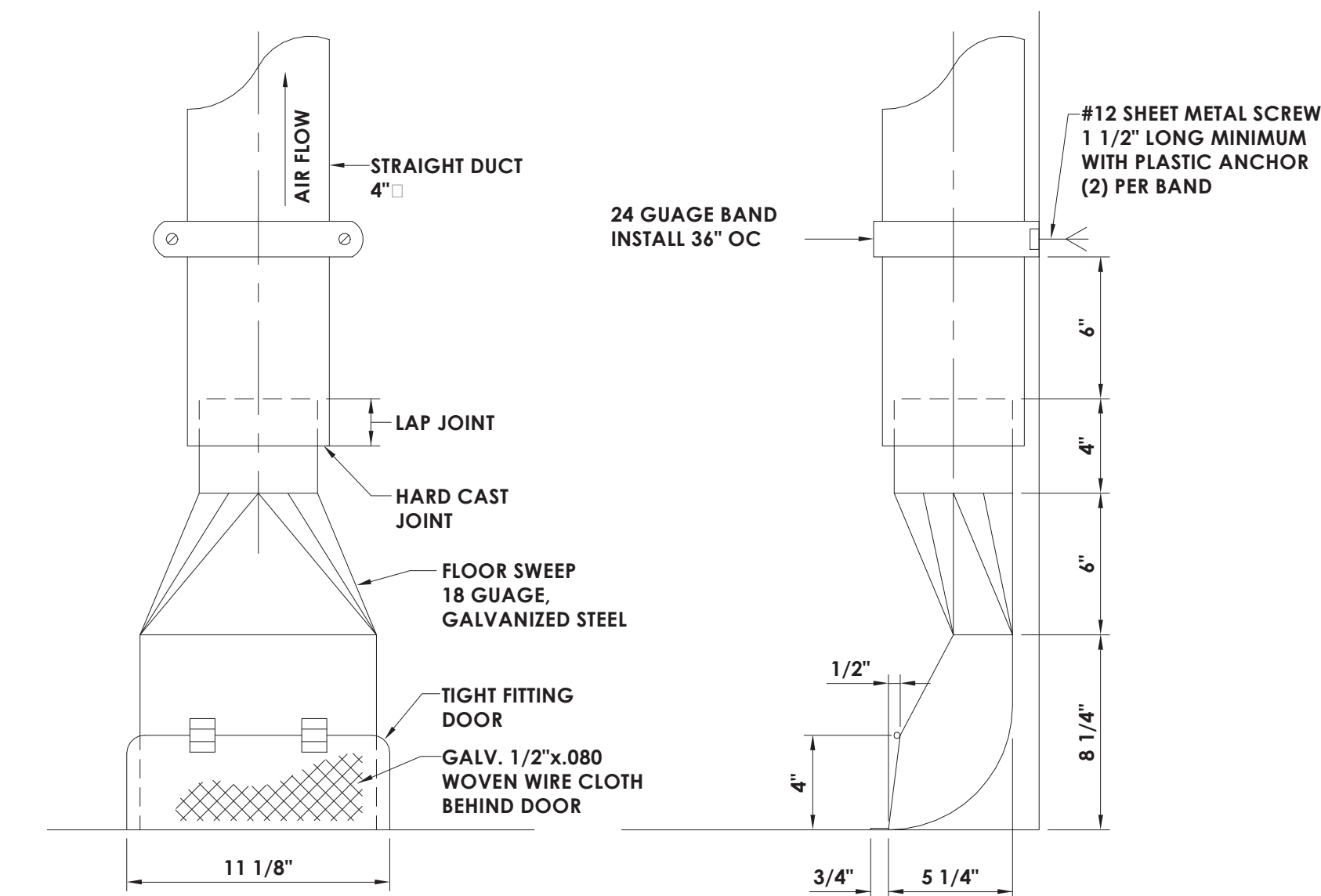
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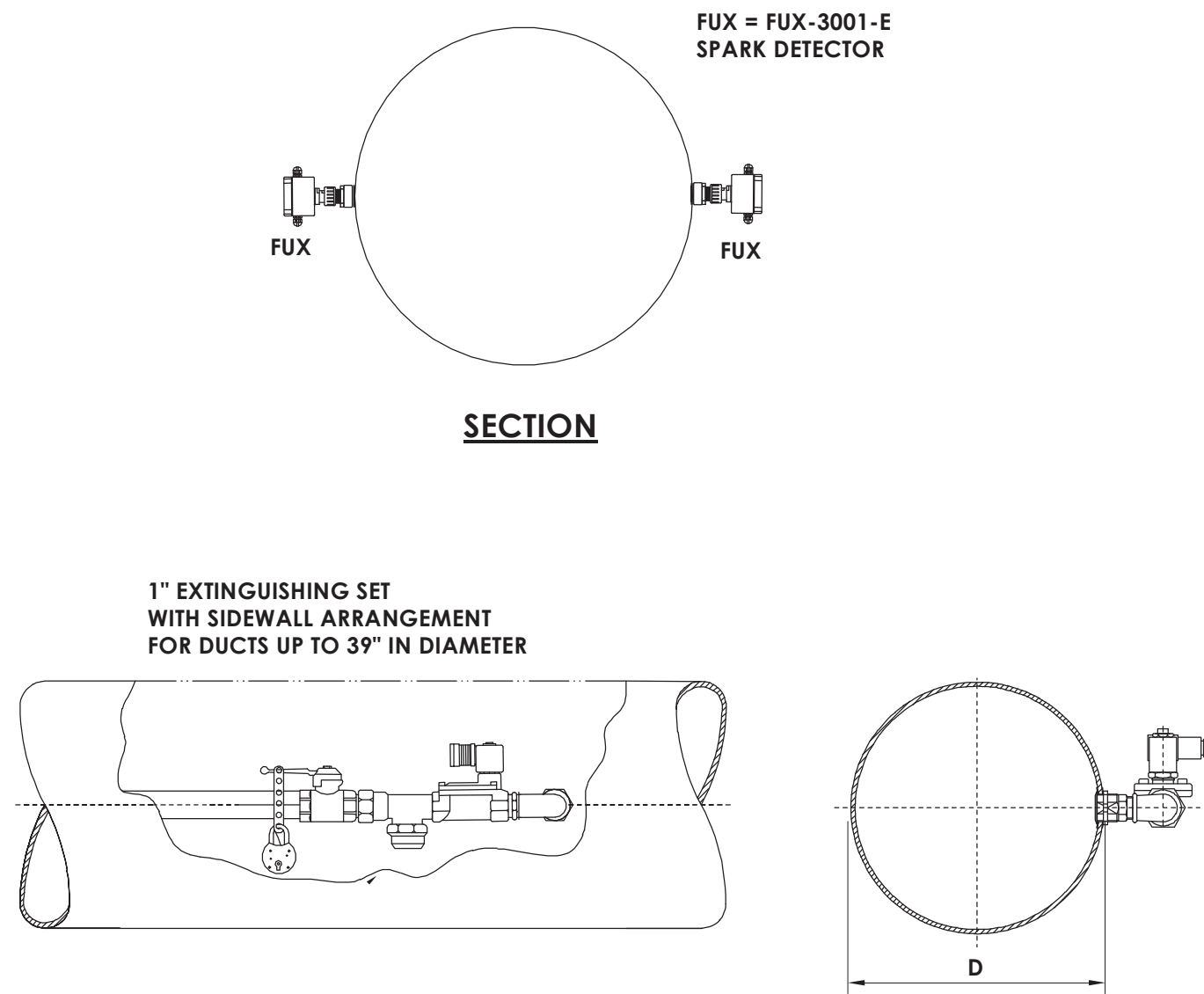
1 DUCT SIDEWALL MOUNTING

ALTERNATE MC-5



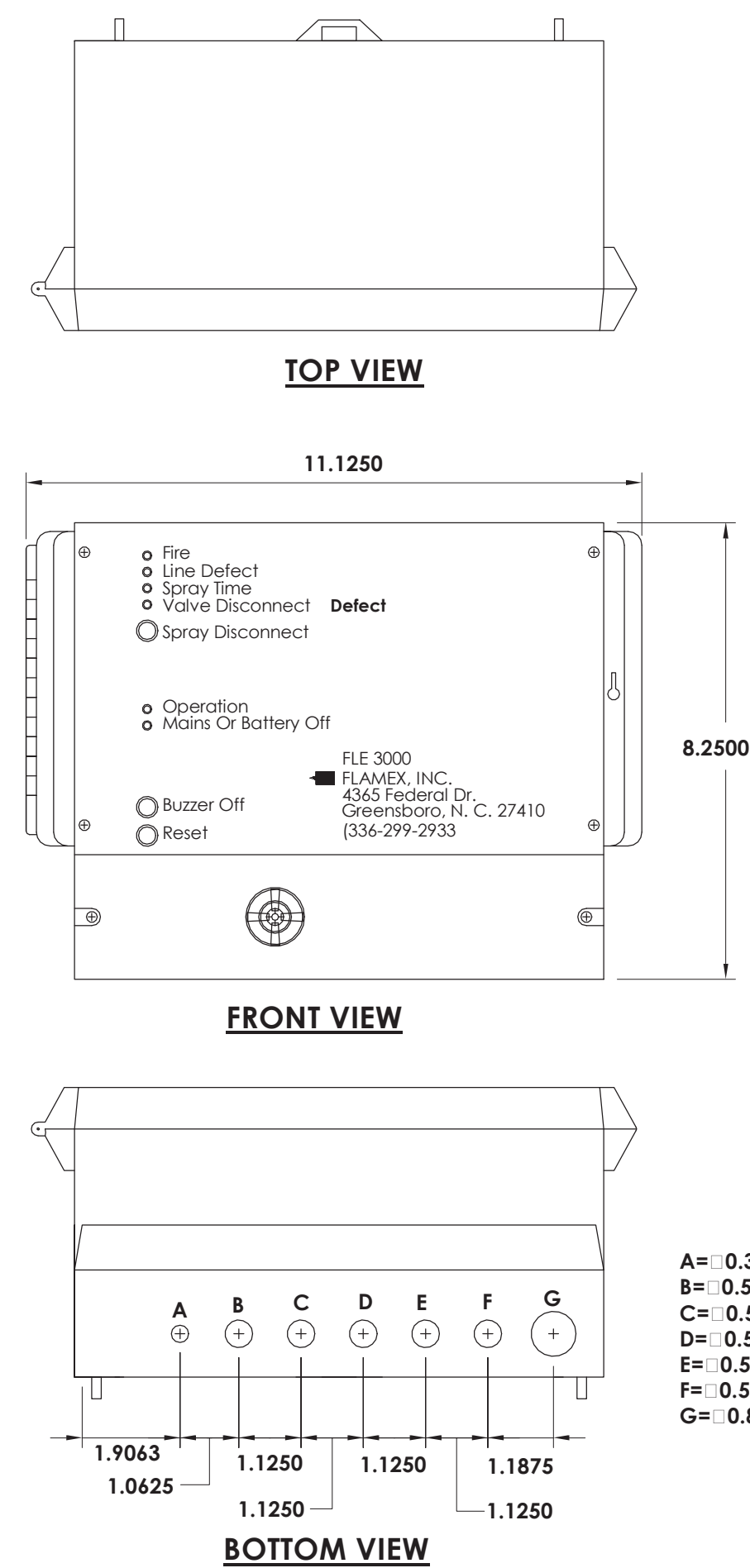
3 FLOOR SWEEP DETAIL

ALTERNATE MC-5



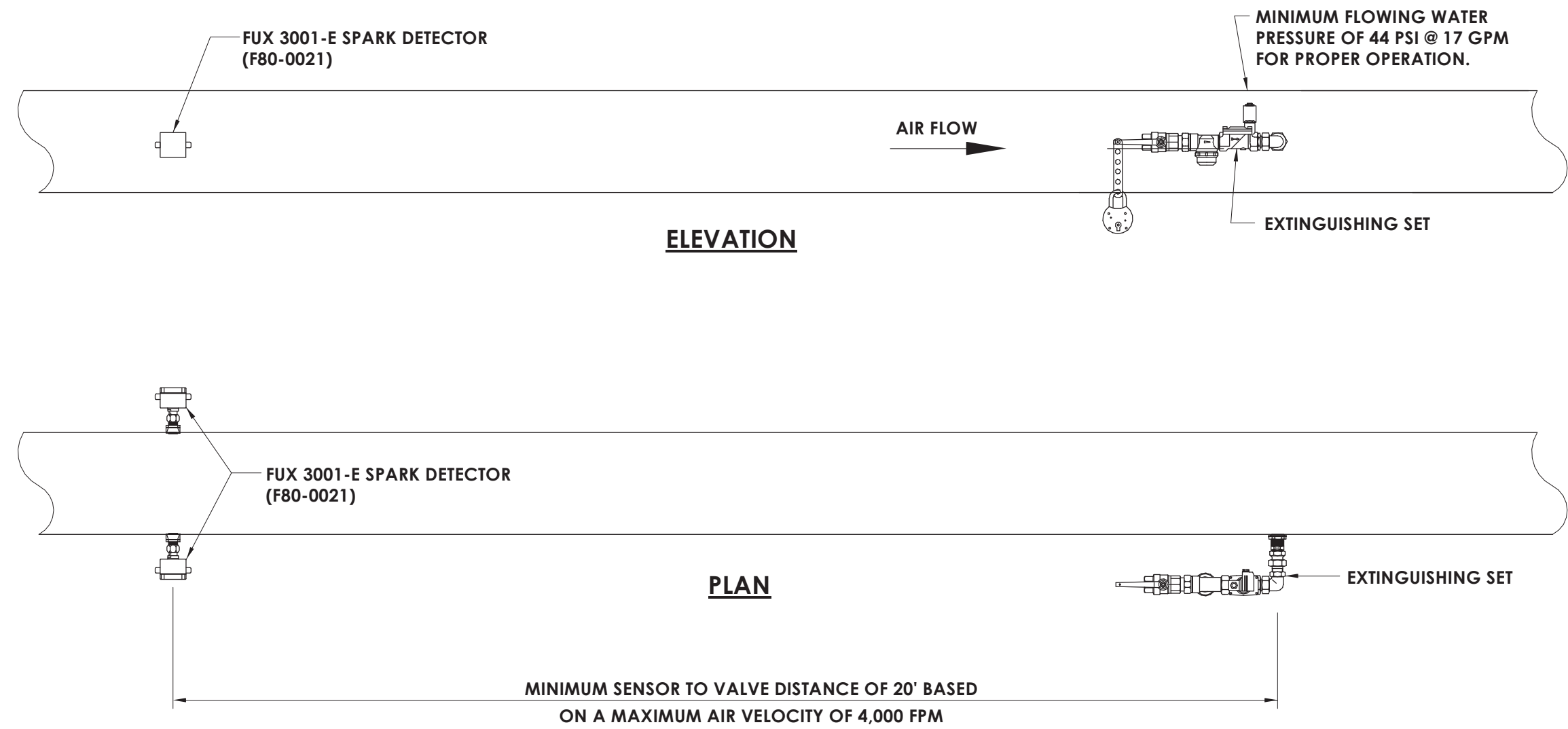
UTILIZING THE F180 K40 DIRECTIONAL NOZZLE

K FACTOR = 2.5 (36 METRIC)



4 FLE 3000

ALTERNATE MC-5



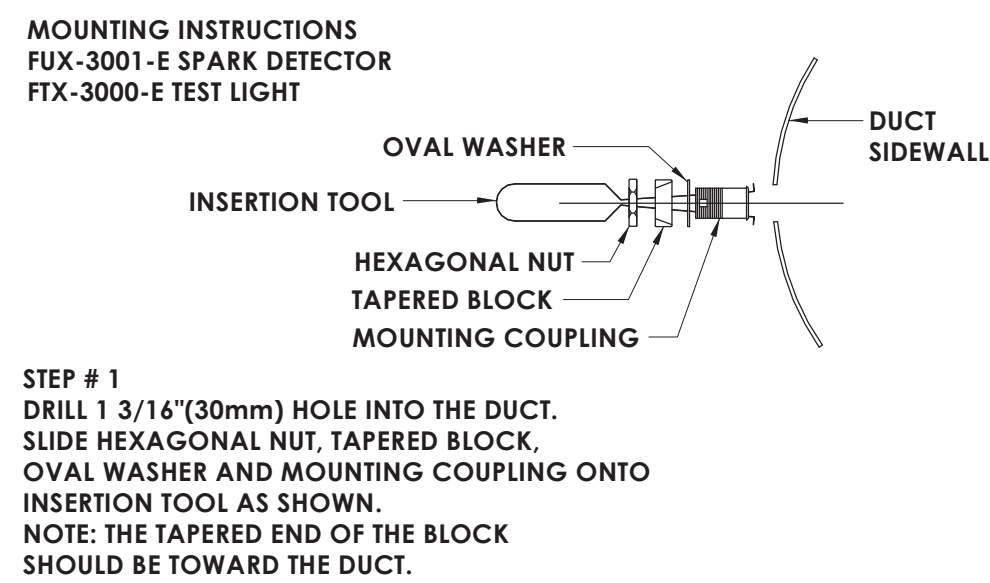
2 TWO FUX-3001-E SPARK DETECTORS

ALTERNATE MC-5

NOTES:
VOLTAGE: 110 VAC @ 1A max.
ENCLOSURE RATING: IPG5 (COMPARABLE TO NEMA 12)
TEMPERATURE RATING: 32°F TO 120°F

PANEL MUST BE MOUNTED INSIDE A DRY HEATED LOCATION

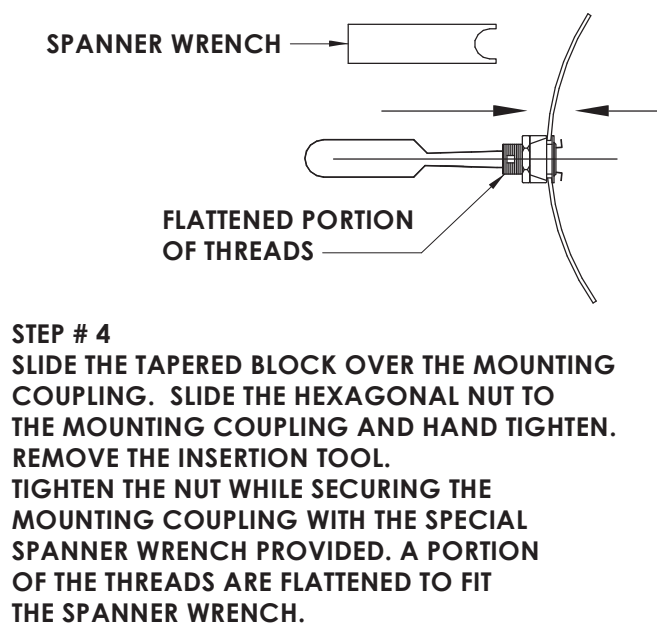
A= 0.3125
B= 0.5000
C= 0.5000
D= 0.5000
E= 0.5000
F= 0.5000
G= 0.8125



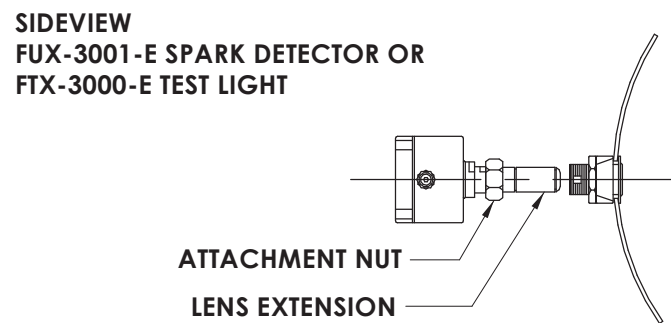
STEP # 1
DRILL 1 3/16" (30mm) HOLE INTO THE DUCT. SLIDE HEXAGONAL NUT, TAPERED BLOCK, OVAL WASHER AND MOUNTING COUPLING ONTO INSERTION TOOL AS SHOWN. NOTE: THE TAPERED END OF THE BLOCK SHOULD BE TOWARD THE DUCT.

STEP # 2
SLIDE THE MOUNTING COUPLING INTO THE DUCT. NEXT, SLIDE THE OVAL WASHER INTO THE DUCT. THE OVAL WASHER MUST BE TILTED SLIGHTLY TO SLIDE THROUGH THE HOLE. IMPORTANT: DO NOT COMPRESS INSERTION TOOL AFTER SLIDING PARTS INTO THE DUCT.

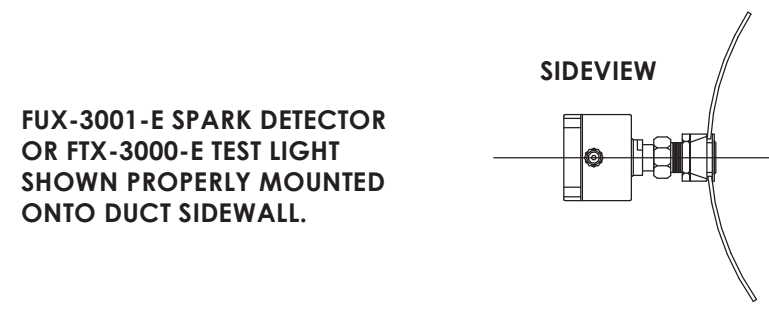
STEP # 3
GENTLY PULL THE INSERTION TOOL FOR THE OVAL WASHER TO SLIDE INTO PLACE OVER THE MOUNTING COUPLING.



STEP # 4
SLIDE THE TAPERED BLOCK OVER THE MOUNTING COUPLING. SLIDE THE HEXAGONAL NUT TO THE MOUNTING COUPLING AND HAND TIGHTEN. REMOVE THE INSERTION TOOL. TIGHTEN THE NUT WHILE SECURING THE MOUNTING COUPLING WITH THE SPECIAL SPANNER WRENCH PROVIDED. A PORTION OF THE THREADS ARE FLATTENED TO FIT THE SPANNER WRENCH.



STEP # 5
ATTACH THE SPARK DETECTOR TO THE MOUNTING COUPLING BY SLIDING THE LENS EXTENSION COMPLETELY INTO THE MOUNTING COUPLING AND HAND TIGHTEN THE ATTACHMENT NUT. NOTE: TIGHTEN THE ATTACHMENT NUT BY HAND ONLY. GREATER FORCE IS NOT REQUIRED TO FIRMLY ATTACH THE DEVICE TO THE DUCT.



5 MOUNTING INSTRUCTIONS FOR FUX 3001-E AND FTX 3000-E TEST LIGHT

ALTERNATE MC-5

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13940.18
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SCHOOL DISTRICT
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SCHOOL 2019 CAPITAL
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SED Number
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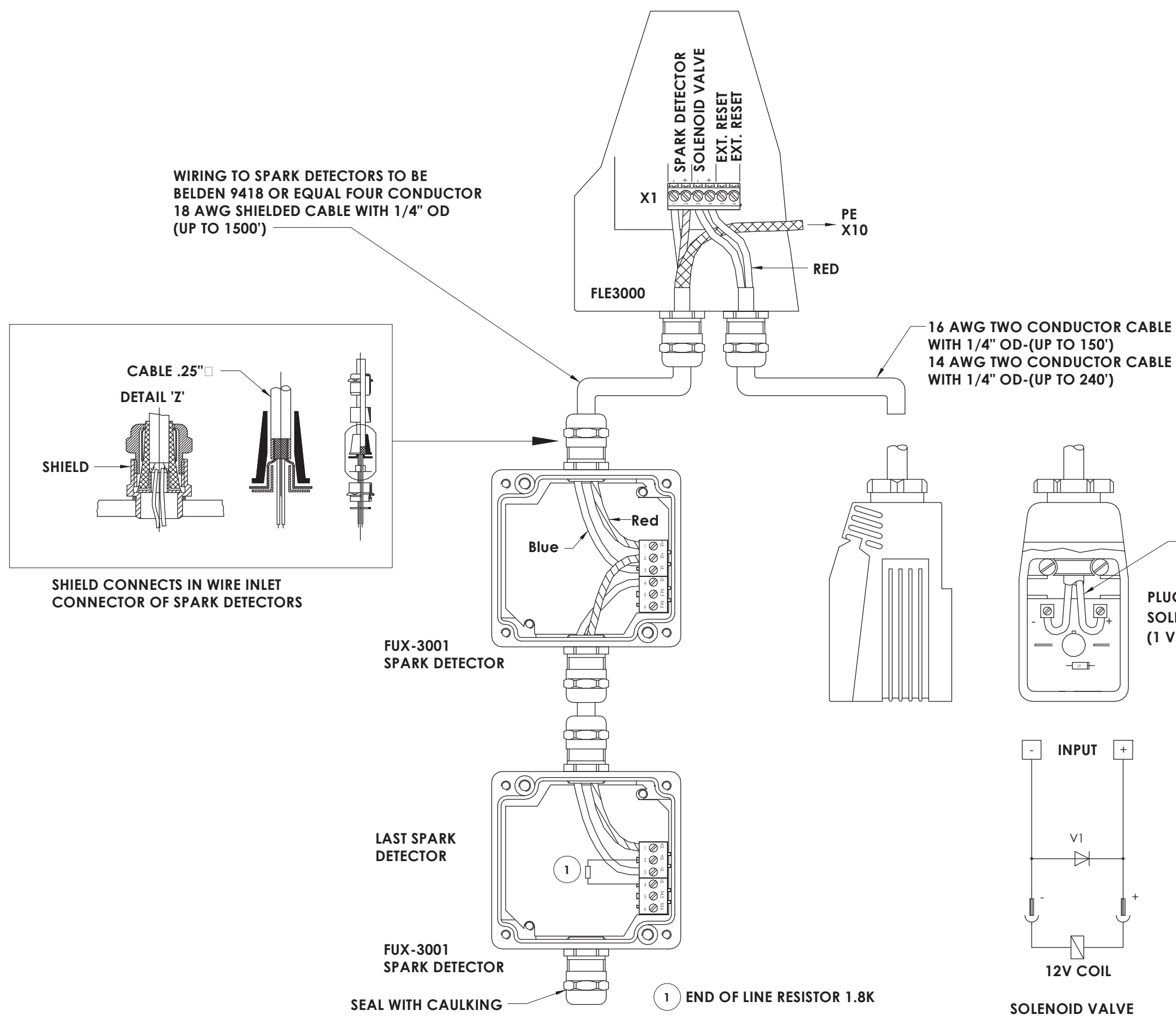
SHEET INFORMATION

Issued
09/09/2021
Scale
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Project Status
CONSTRUCTION DOCUMENTS
Drawn By
NRH
Checked By
JJM
Drawing Title
HVAC DETAILS

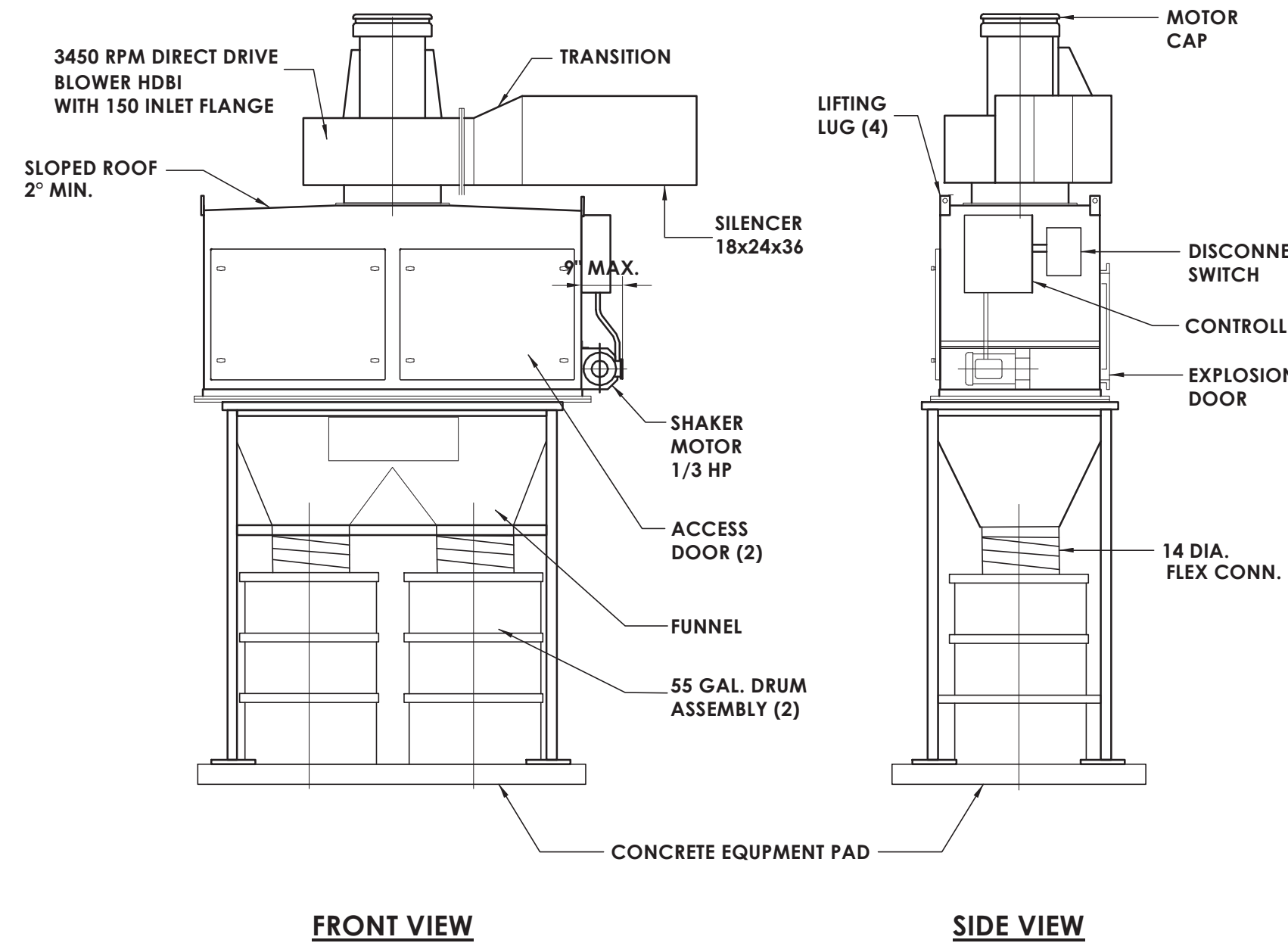
Drawing Number

HMS
H800

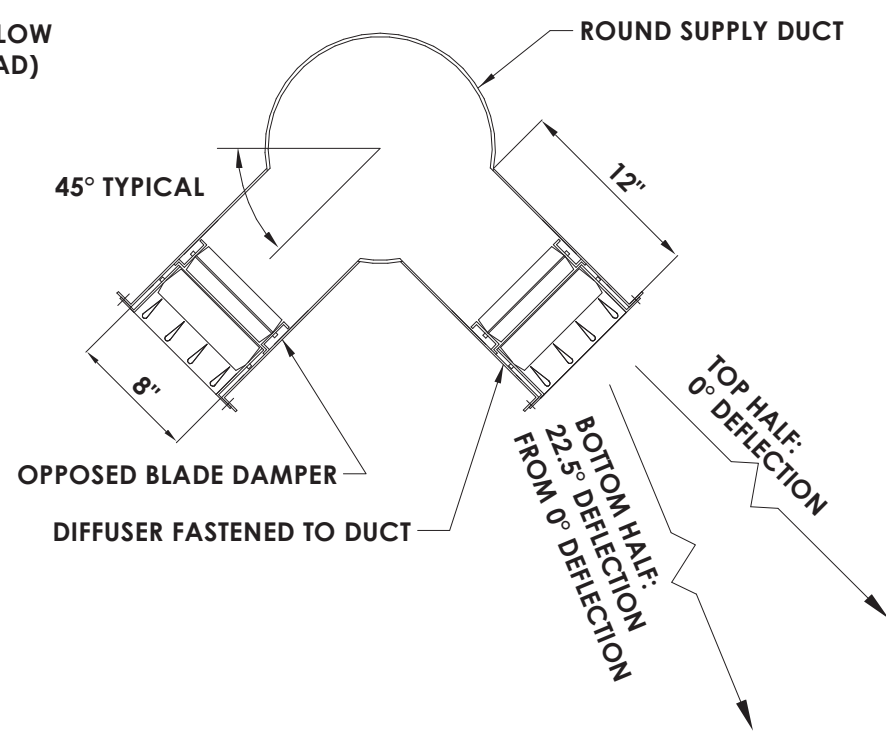
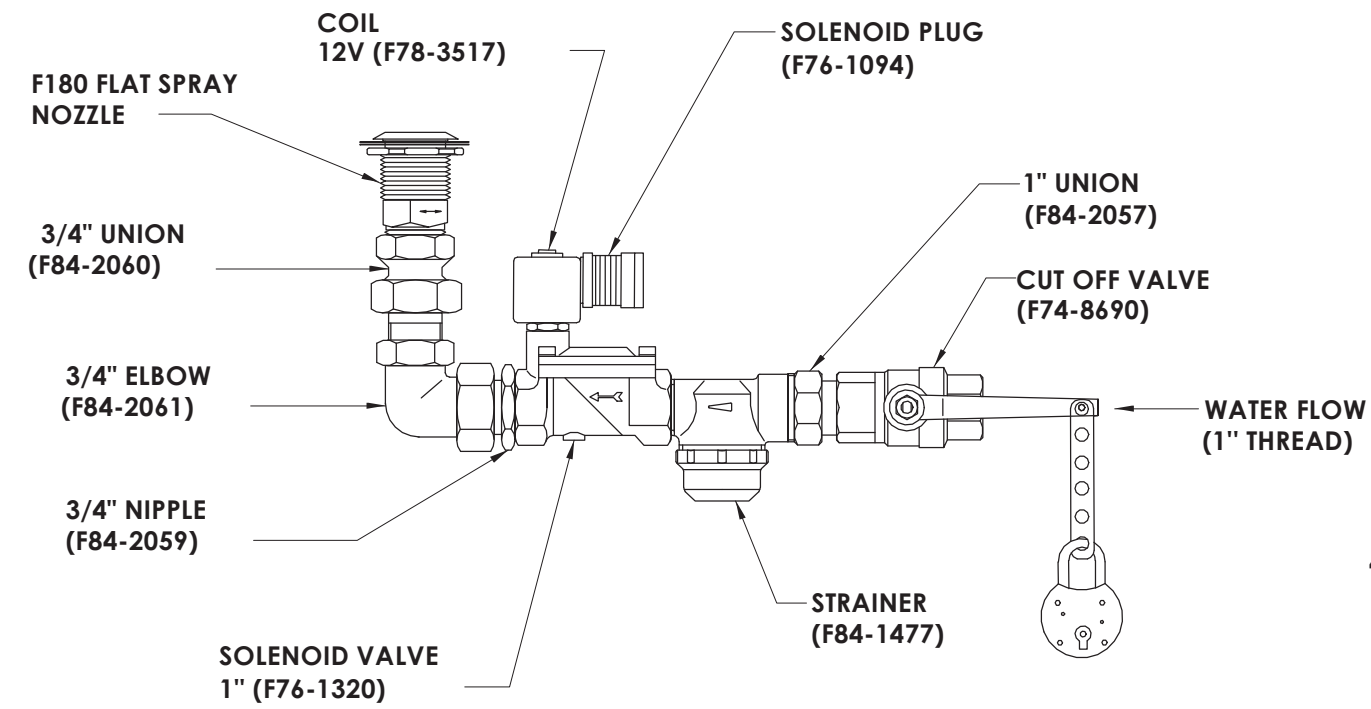
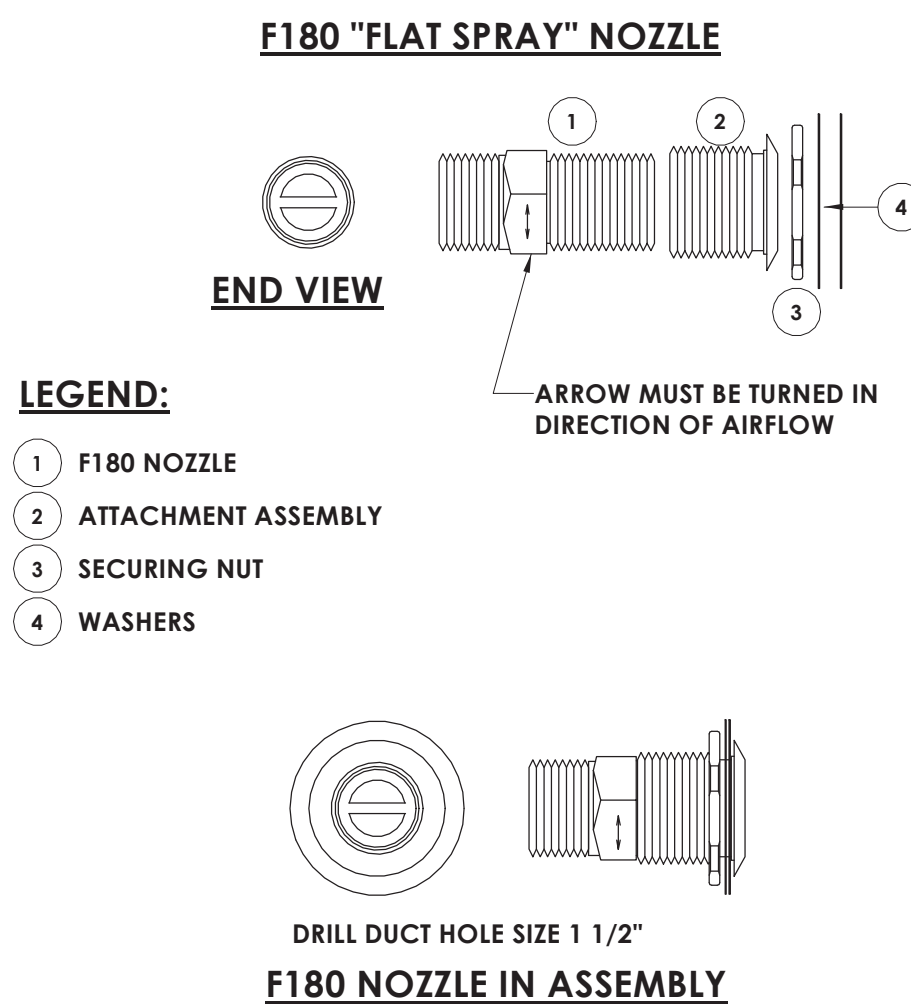
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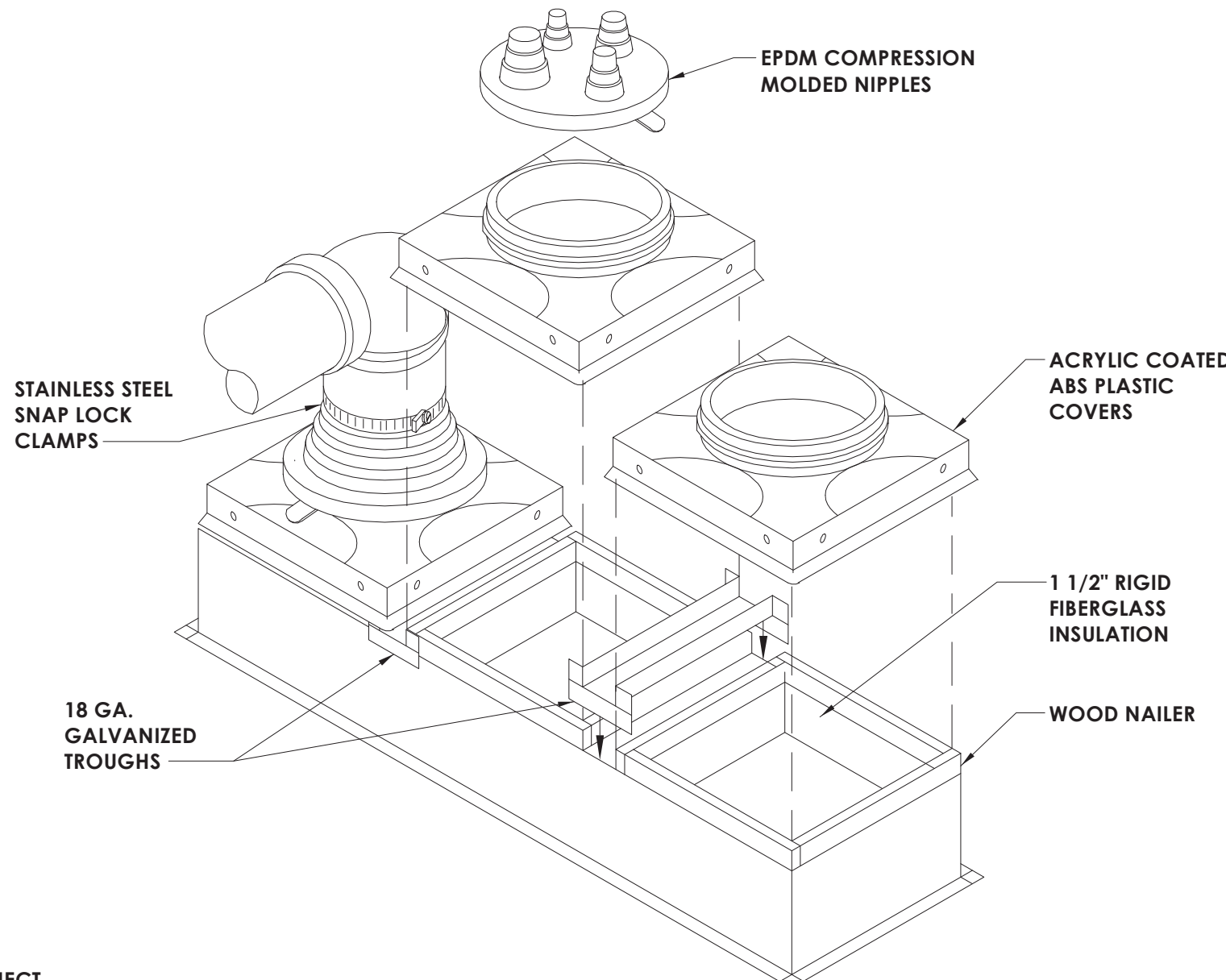
1 H801 SPARK DETECTOR AND SOLENOID VALVE CONNECTIONS
ALTERNATE MC-5



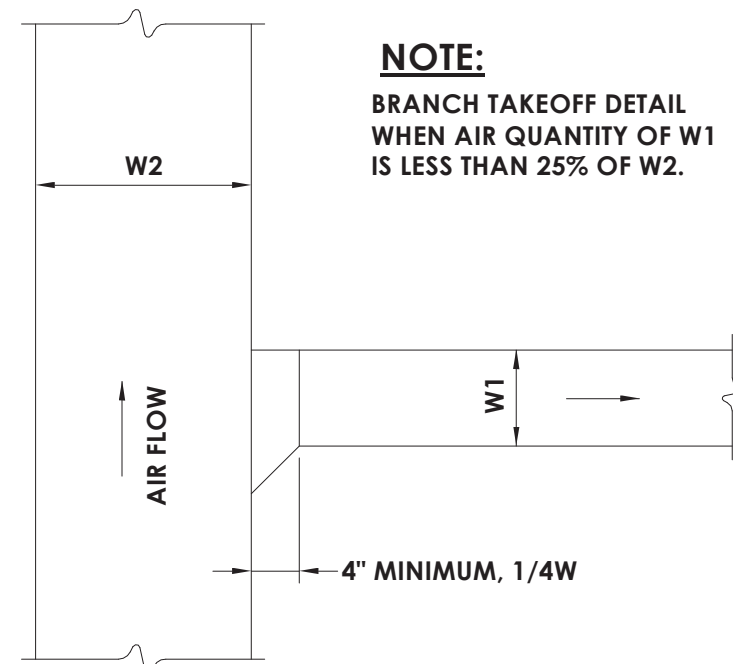
4 H801 DUST COLLECTOR DETAIL
ALTERNATE MC-5



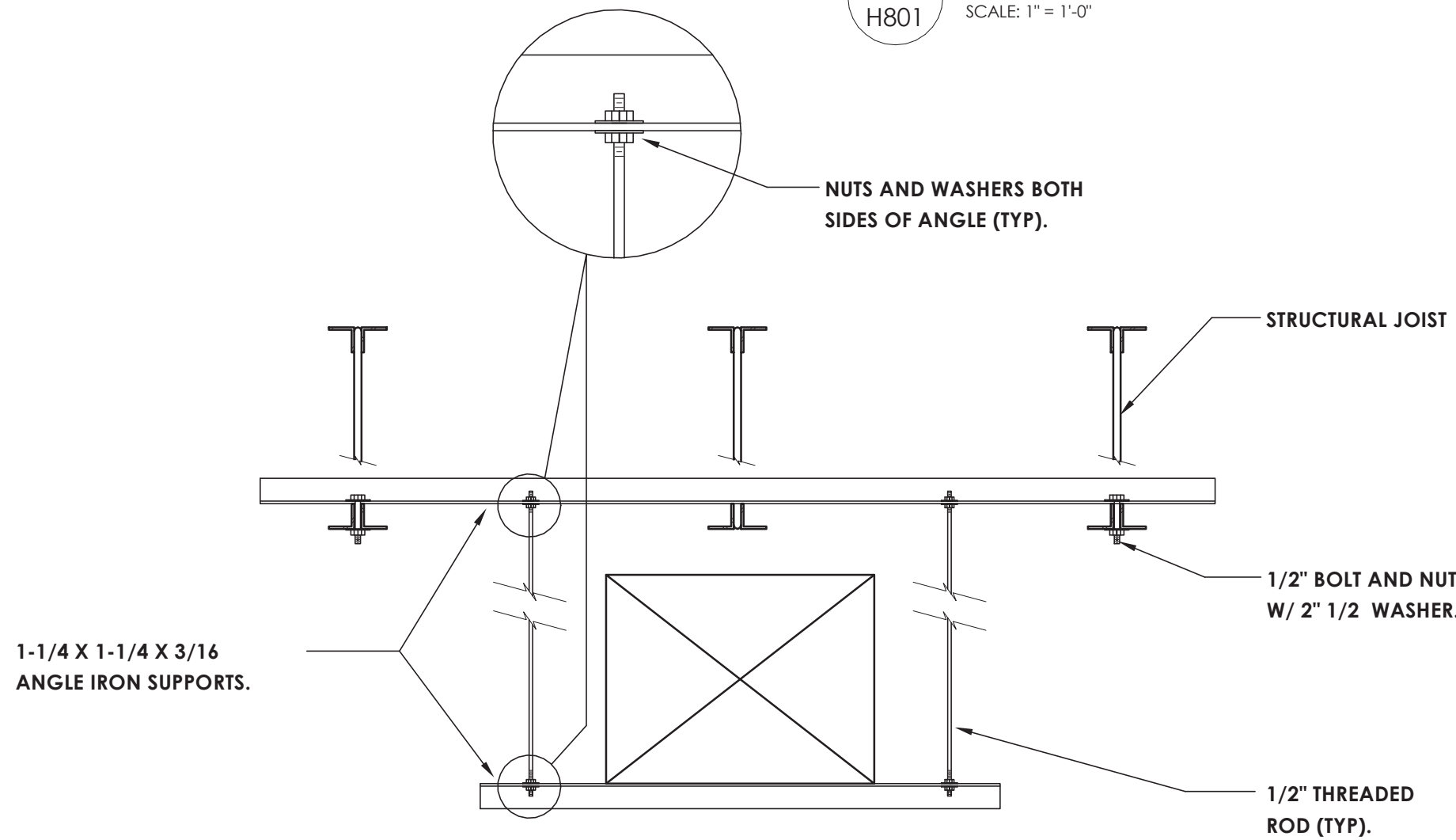
2 H801 FLAMEX EXTINGUISHING ASSEMBLY
ALTERNATE MC-5



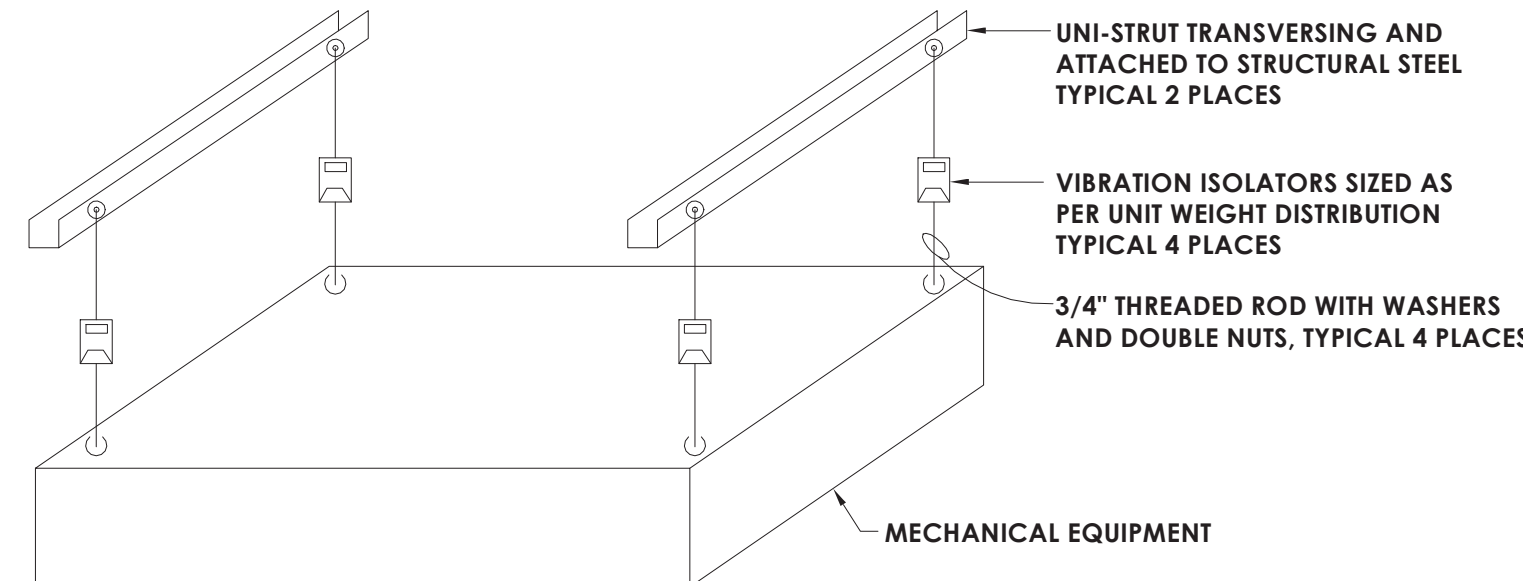
5 H801 PIPE PORTAL DETAIL
NOT TO SCALE



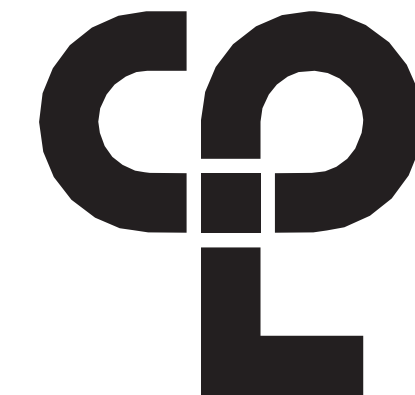
7 H801 BRANCH TAKE-OFF DETAIL
NOT TO SCALE



1 H801 DUCT HANGER DETAIL
NOT TO SCALE



13 H802 INDOOR UNIT SUPPORT INSTALLATION DETAIL
NOT TO SCALE

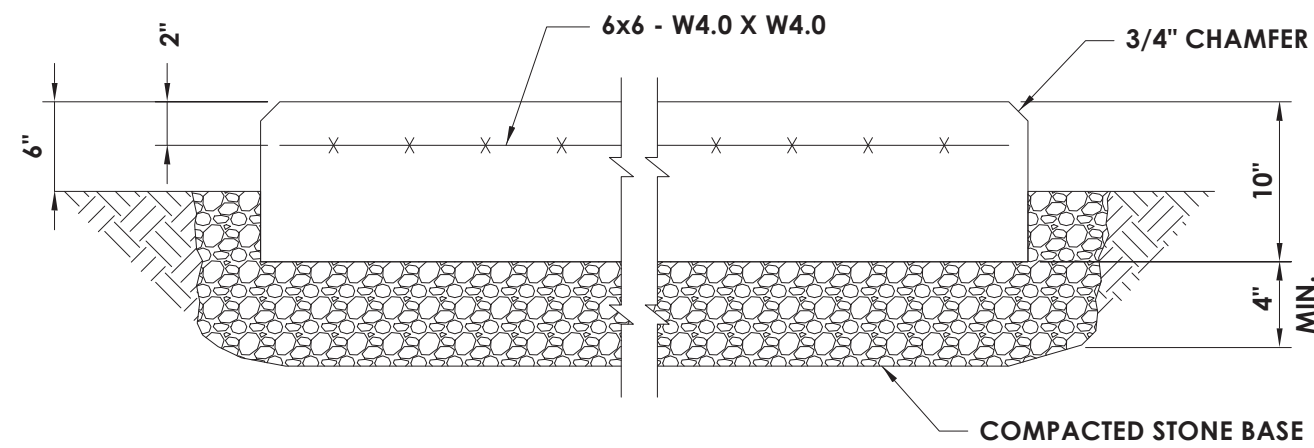


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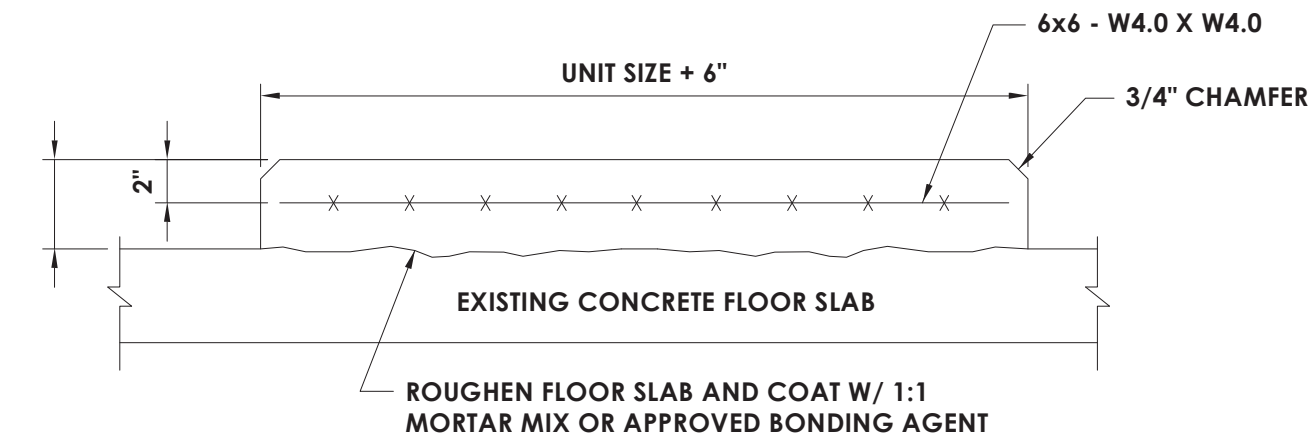
PROJECT INFORMATION
Project Number
13940.18
Client Name
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
Project Name
PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT
Project Address
405 Union Avenue, New Windsor, NY 12553
SED Number
44-16-00-01-0-039-011
PROJECT ISSUE SCHEDULE
No. Date Description

SHEET INFORMATION
Issued
09/09/2021
Scale
12" = 1'-0"
Project Status
CONSTRUCTION DOCUMENTS
Drawn By
NRH
Checked By
JJM
Drawing Title
HVAC DETAILS

Drawing Number
HMS
H801



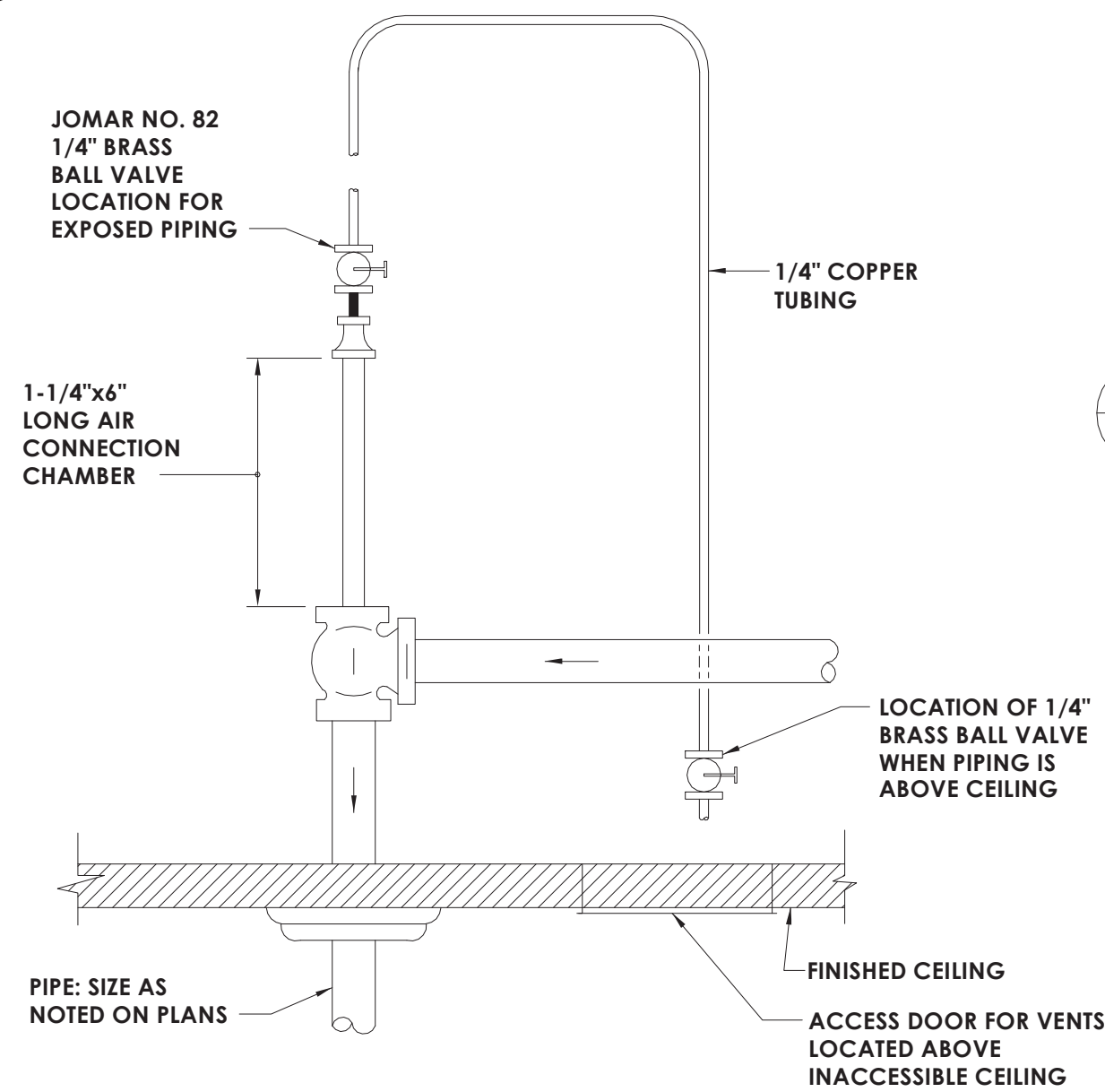
INTERIOR PAD DETAIL FOR LOCATION ON GROUND



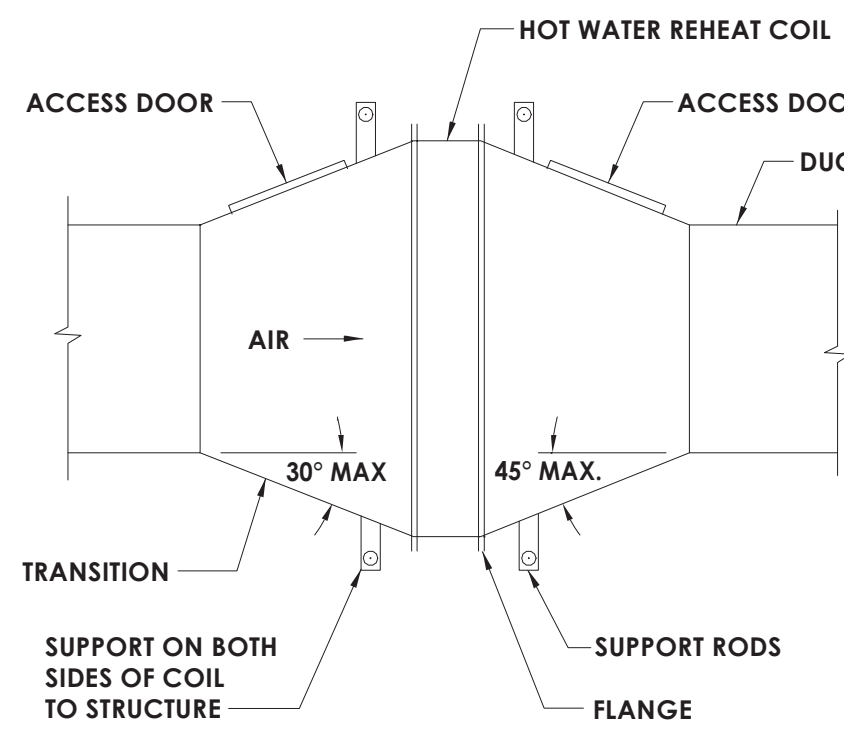
INTERIOR PAD DETAIL FOR LOCATION ON EXISTING CONCRETE FLOOR

NOTE: COORDINATE UNIT SIZE WITH EQUIPMENT SELECTED.

1 EQUIPMENT HOUSEKEEPING PAD DETAIL
H802 NOT TO SCALE

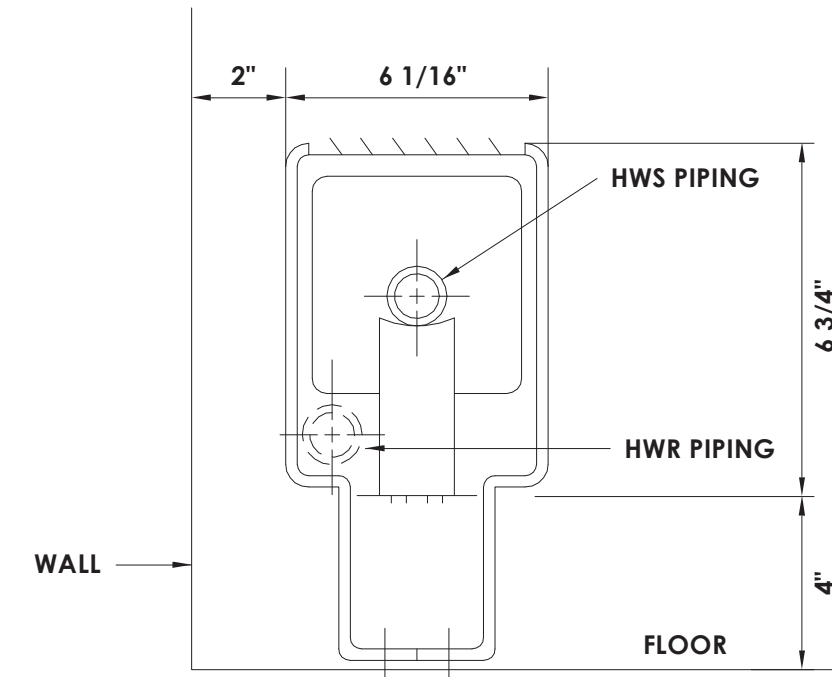


5 MANUAL AIR VENT DETAIL - WATER PIPING
H802 NOT TO SCALE

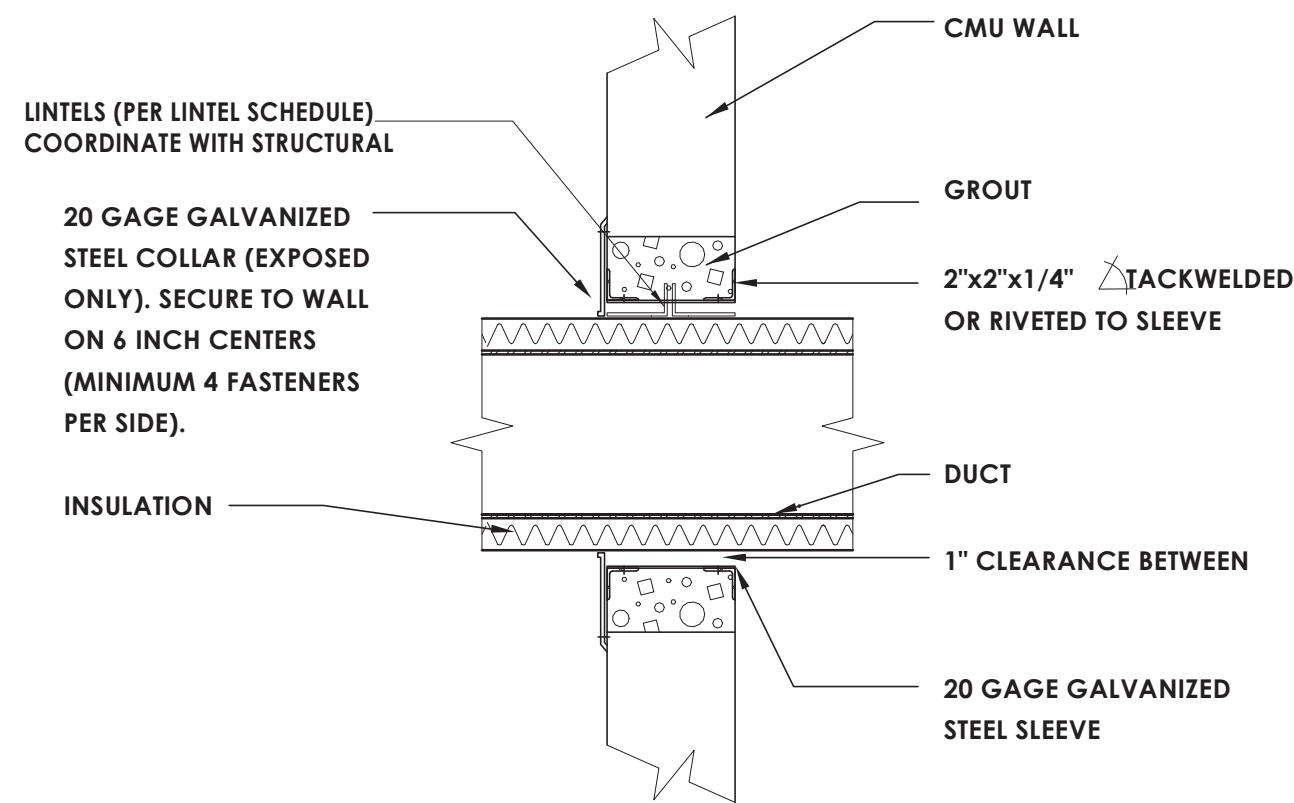


NOTE: SUPPORT DUCTWORK INDEPENDENTLY OF THE COIL.

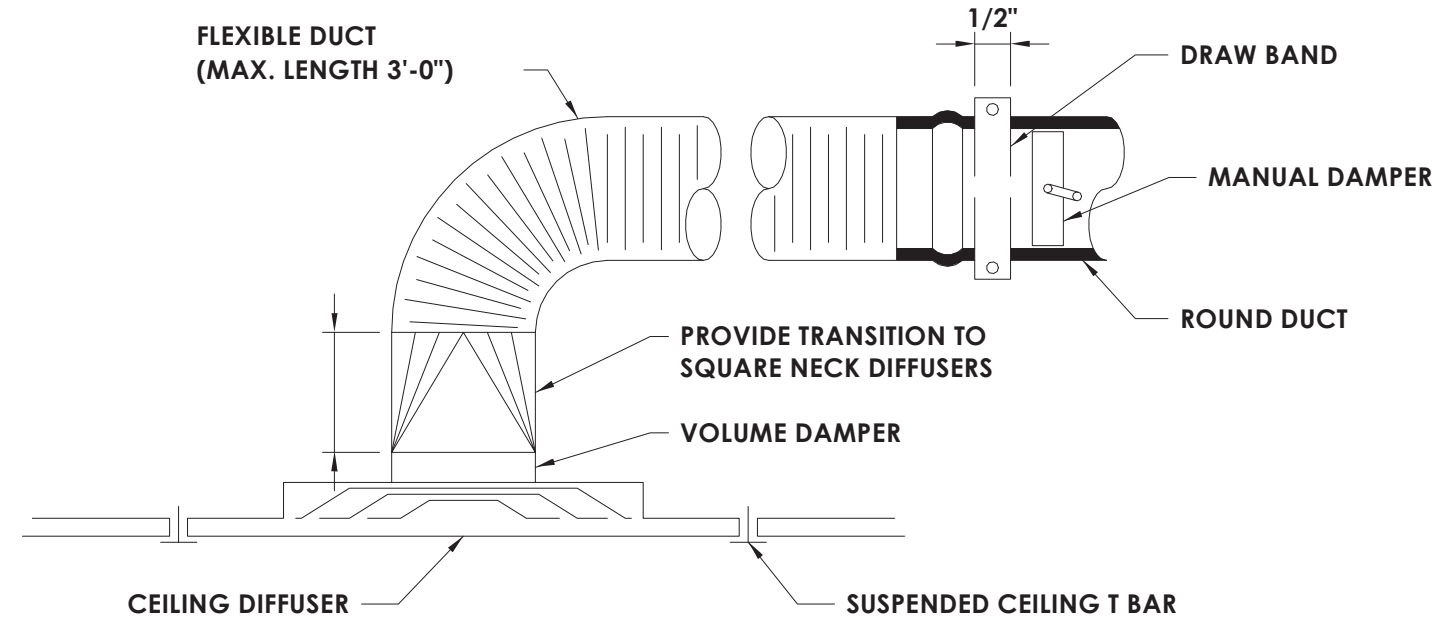
9 REHEAT COIL DETAIL
H802 NOT TO SCALE



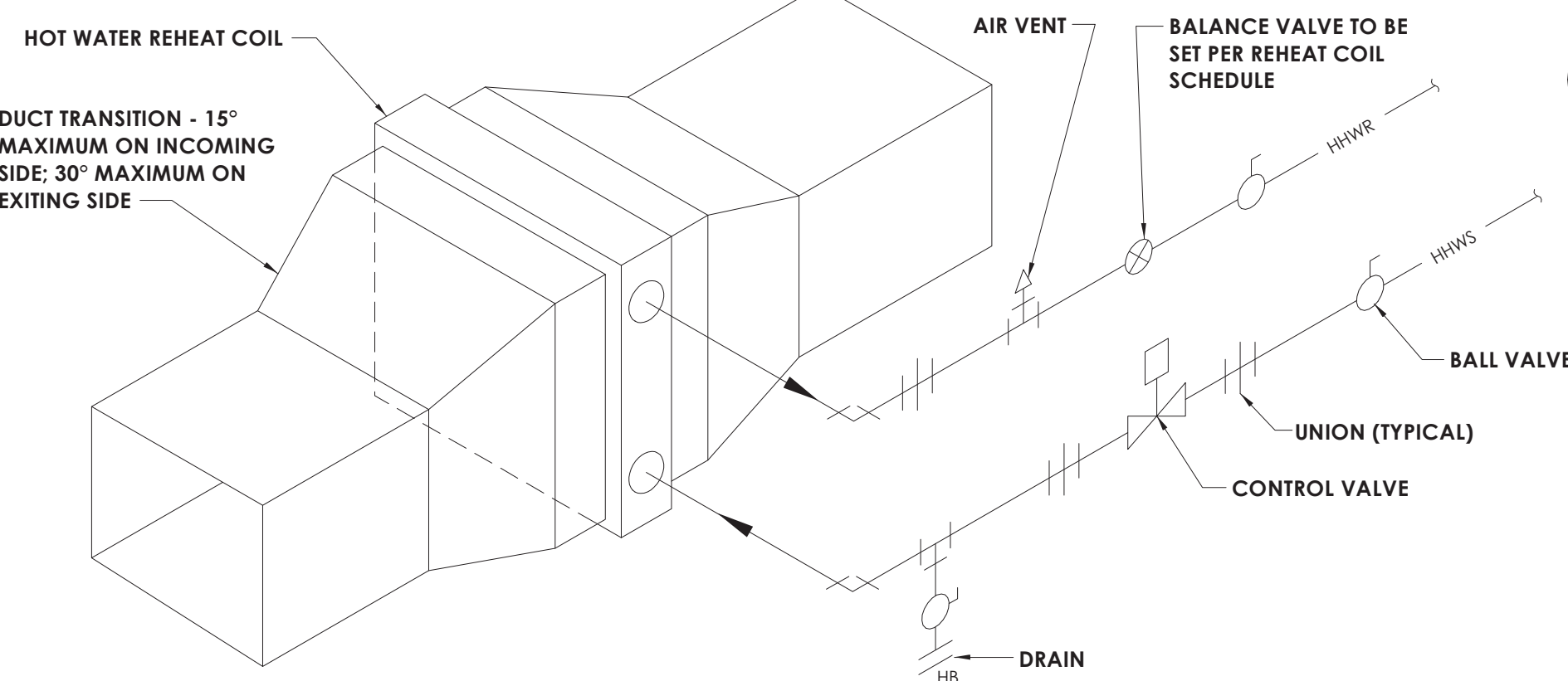
2 PIPE MOUNTING REQUIREMENTS FOR FIN TUBE RADIATION (NEW CAFE)
H802 NOT TO SCALE



6 DUCT PENETRATION THROUGH WALL (NON FIRE-RATED)
H802 NOT TO SCALE

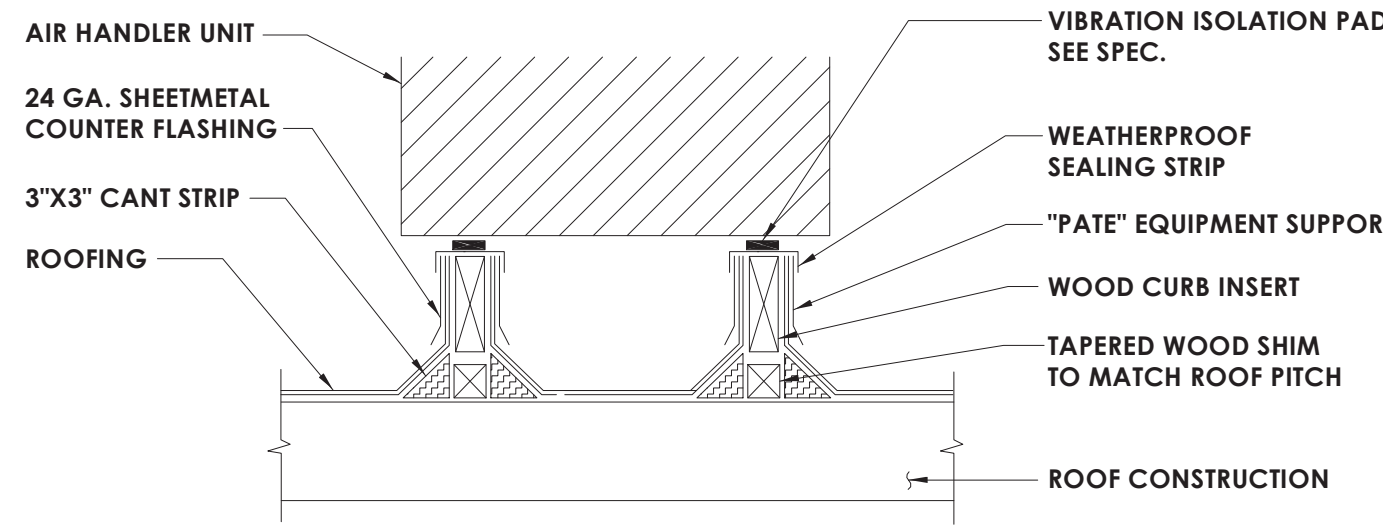


10 DIFFUSER DETAIL
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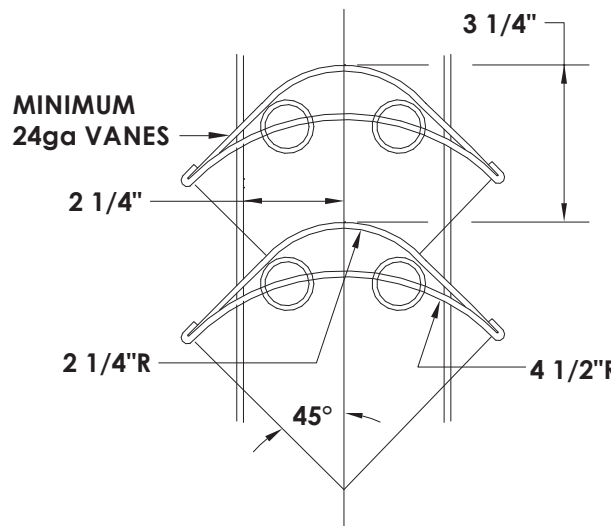


THIS DETAIL APPLIES TO REHEAT COILS

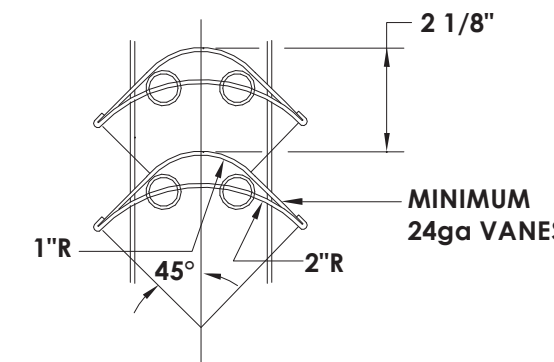
13 HOT WATER REHEAT COIL DETAIL
H802 NOT TO SCALE



3 EQUIPMENT BASE DETAIL
H802 NOT TO SCALE



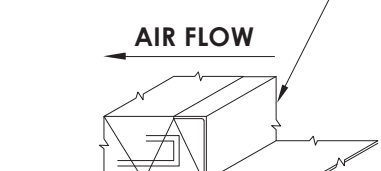
VANES FOR SQUARE THROAT ELBOWS OVER 20" WIDE



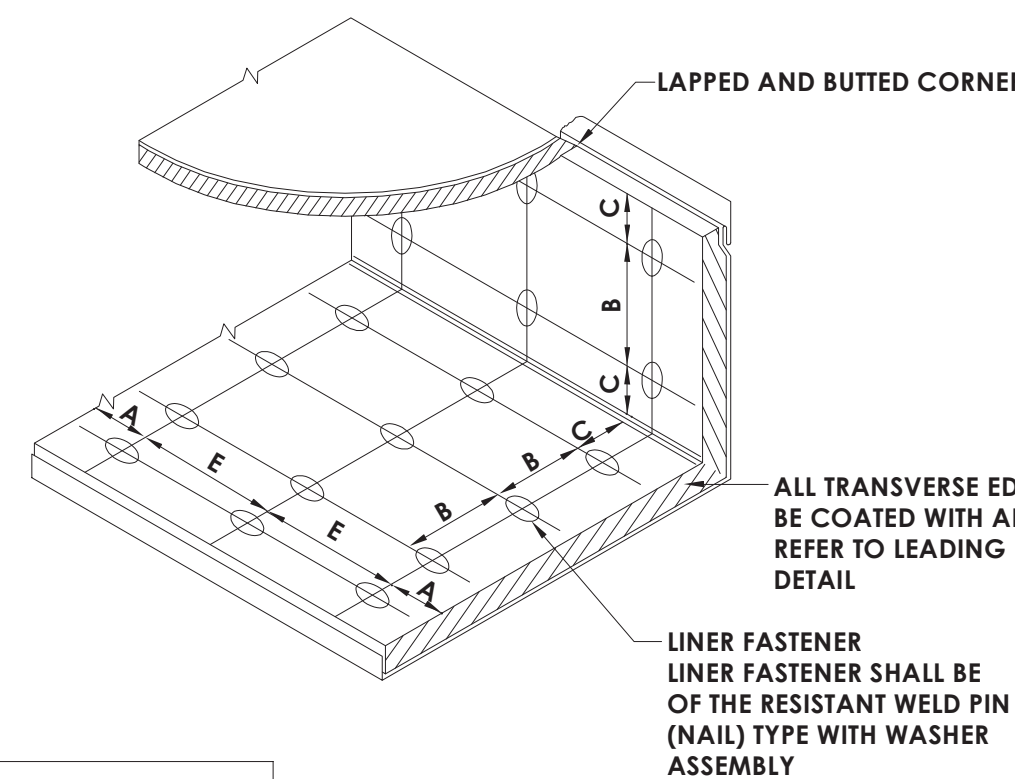
VANES FOR SQUARE THROAT ELBOWS THRU 20" WIDE

7 TYPICAL TURNING VANE DETAIL
H802 NOT TO SCALE

METAL NOSING. NOSING REQUIRED AT FIRST JOINT AFTER EQUIPMENT AND AT POINTS WHERE LINING BEGINS. IN ADDITION, NOSING IS REQUIRED AT AIR FLOW VELOCITIES EXCEEDING 4000 FPM ON ALL LEADING TRANSVERSE EDGES. METAL NOSING SHALL BE CONSTRUCTED OF SAME MATERIAL AND GAUGE AS ADJOINING DUCT.



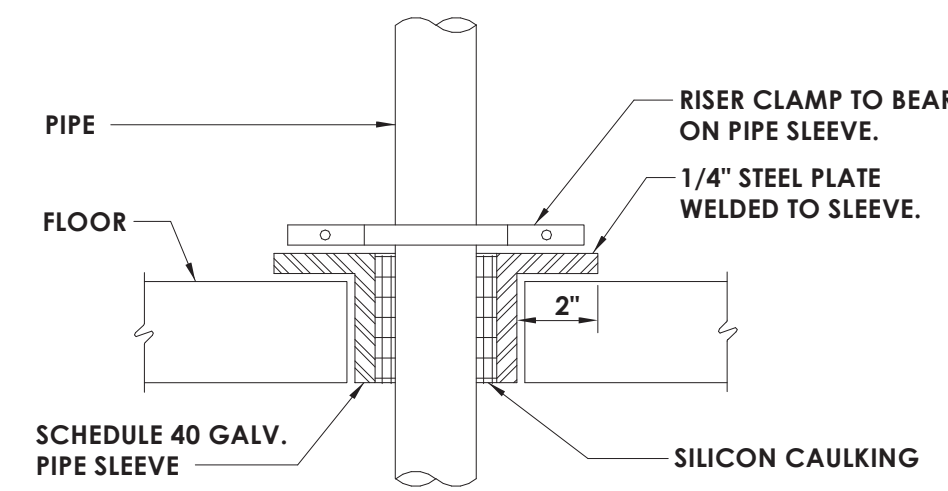
LEADING EDGE DETAIL



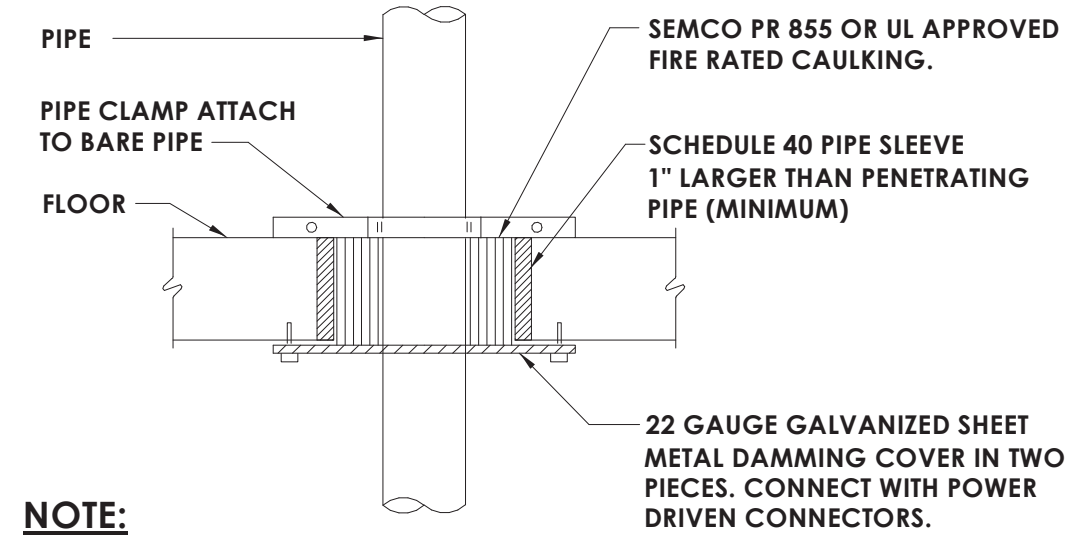
VELOCITY	MAXIMUM FASTENER SPACING			
	A	B	C	E
0-2500 FPM	3"	12"	4"	18"
2501-6000 FPM	3"	6"	4"	16"

NOTE: LINER ADHERED TO THE DUCT WITH 100% AREA COVERAGE OF ADHESIVE

11 DUCT LINER INSTALLATION DETAIL
H802 NOT TO SCALE

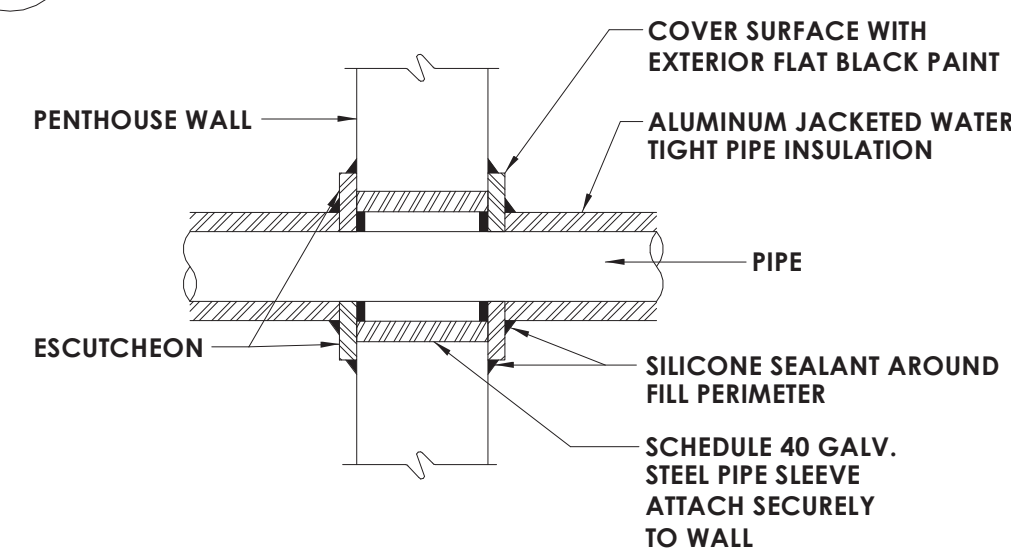


4 PIPE THROUGH NON-RATED FLOOR
H802 NOT TO SCALE

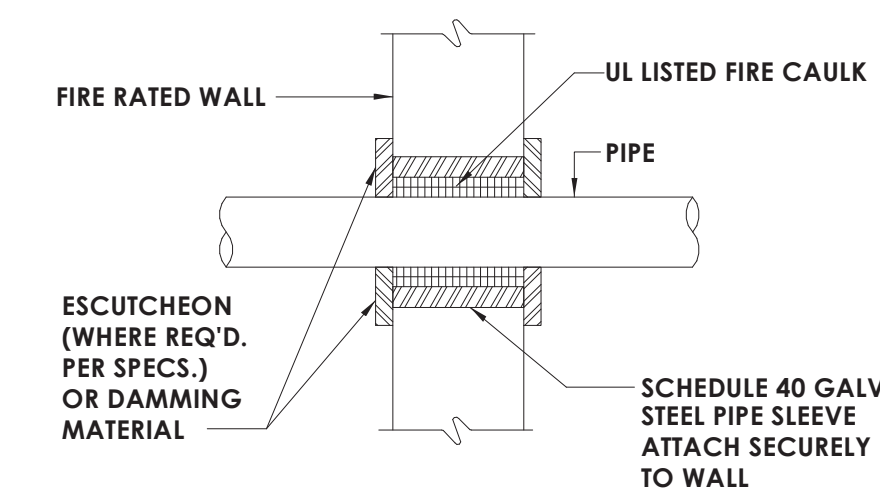


NOTE: ALL MATERIALS MUST HAVE A MINIMUM MELTING POINT OF 1700° F

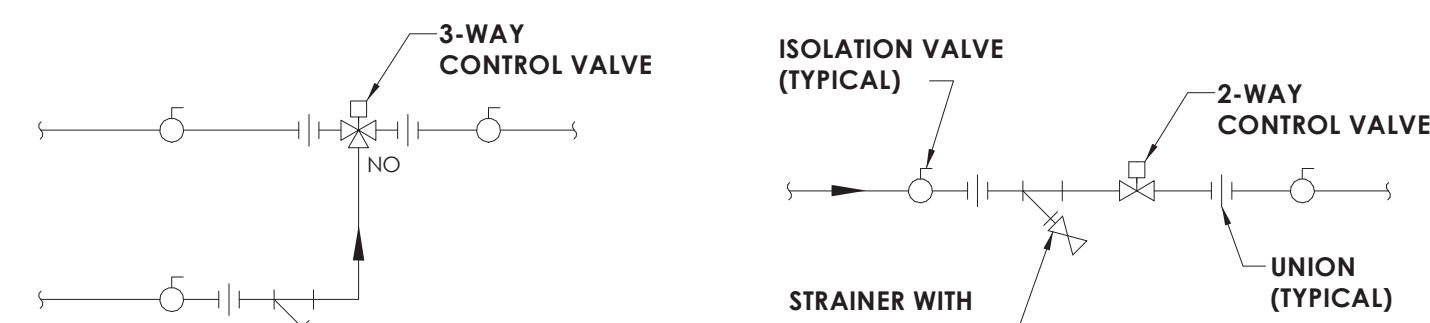
8 PIPE THROUGH RATED FLOOR
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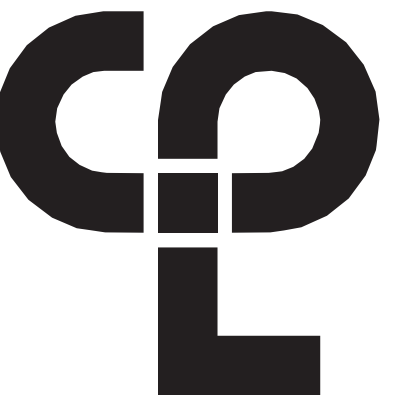
12 PIPE THROUGH NON-RATED WALL
H802 NOT TO SCALE



15 PIPE THROUGH RATED WALL
H802 NOT TO SCALE



14 CONTROL VALVE SCHEMATICS
H802 NOT TO SCALE



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405 Union Avenue, New Windsor, NY 12553

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

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SHEET INFORMATION

Issued
01/29/2021

Scale
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Project Status
CONSTRUCTION DOCUMENTS

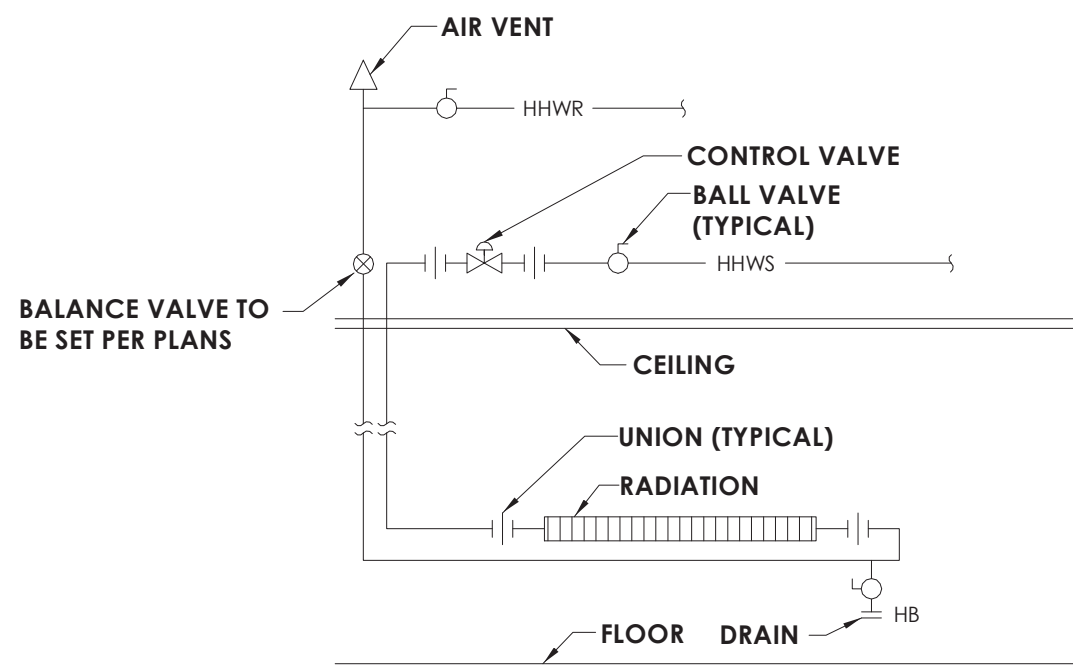
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Author

Checked By
Checker

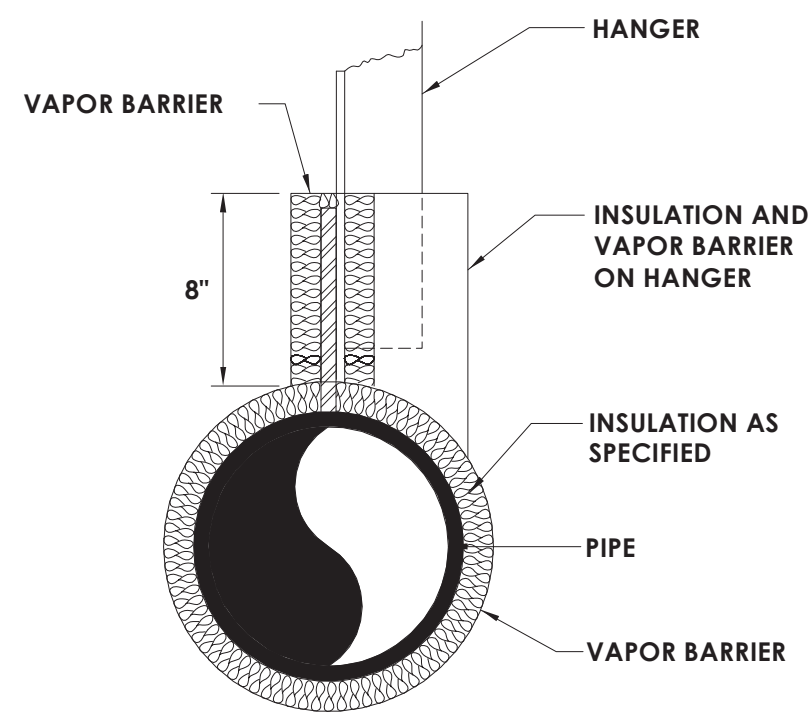
Drawing Title
HVAC DETAILS

Drawing Number

H802

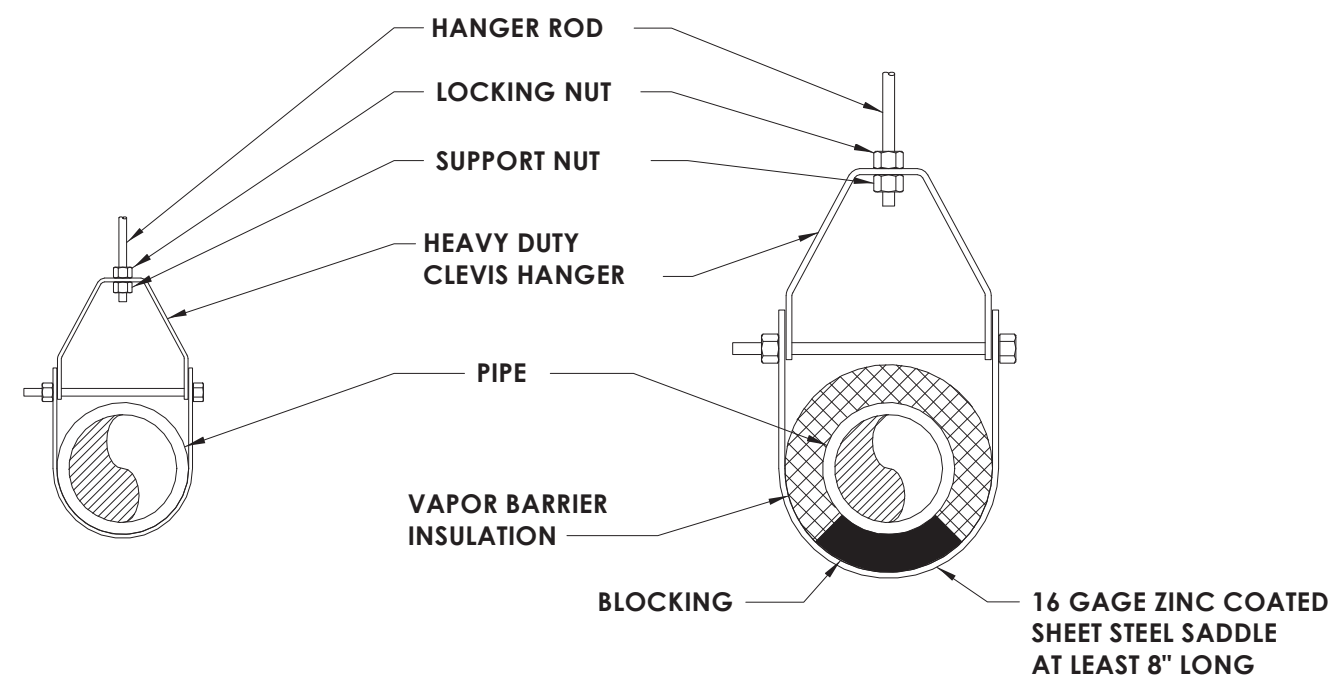


1 H803 NOT TO SCALE
HOT WATER RADIATION PIPING SCHEMATIC



NOTE:
WHERE COLD OR CHILLED WATER IS CARRIED IN PIPES, INSULATION WITH VAPOR BARRIER SHALL BE PROVIDED ON ANCHOR PLATES AND STRUTS TO POINTS 8" CLEAR OF PIPE INSULATION.

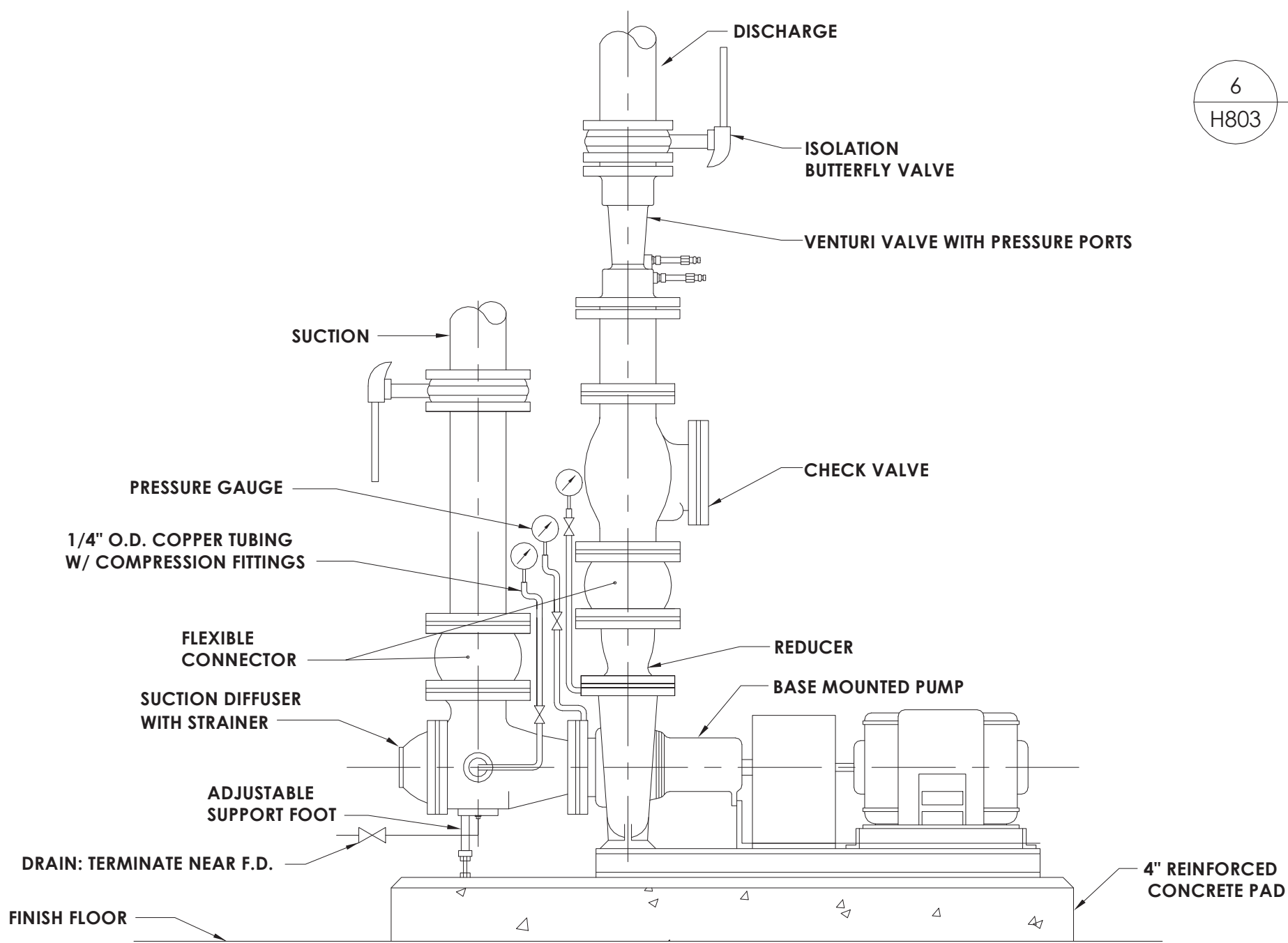
2 H803 NOT TO SCALE
COLD WATER PIPING DETAIL



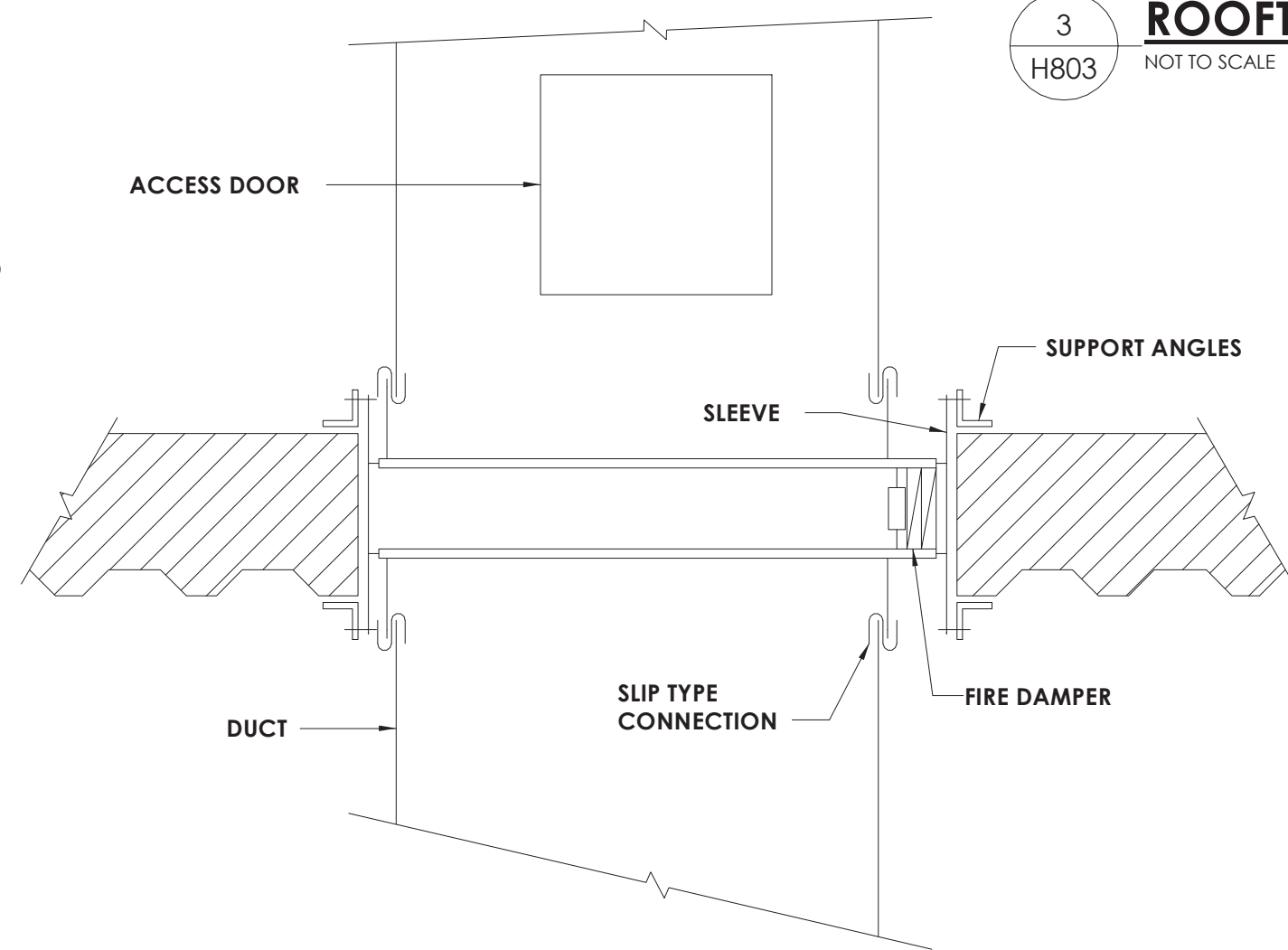
**CLEVIS HANGER
SINGLE HORIZONTAL RUNS
NO VAPOR BARRIER INSULATION**

**CLEVIS HANGER
SINGLE HORIZONTAL RUNS
WITH VAPOR BARRIER INSULATION**

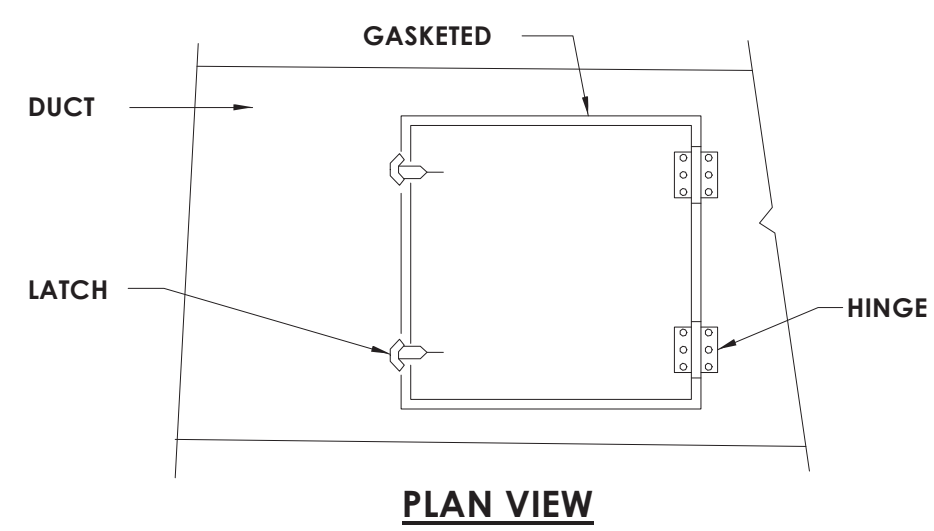
5 H803 NOT TO SCALE
PIPE SUPPORT DETAIL



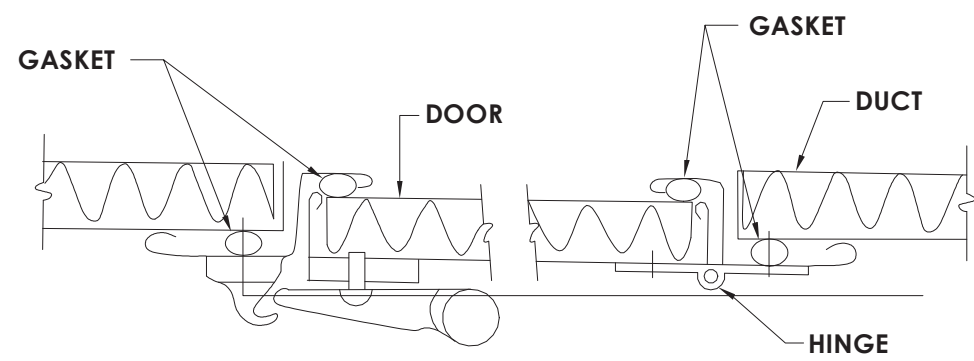
9 H803 NOT TO SCALE
BASE MOUNTED PUMP WITH VFD DETAIL



6 H803 NOT TO SCALE
HORIZONTAL FIRE DAMPER DETAIL



PLAN VIEW

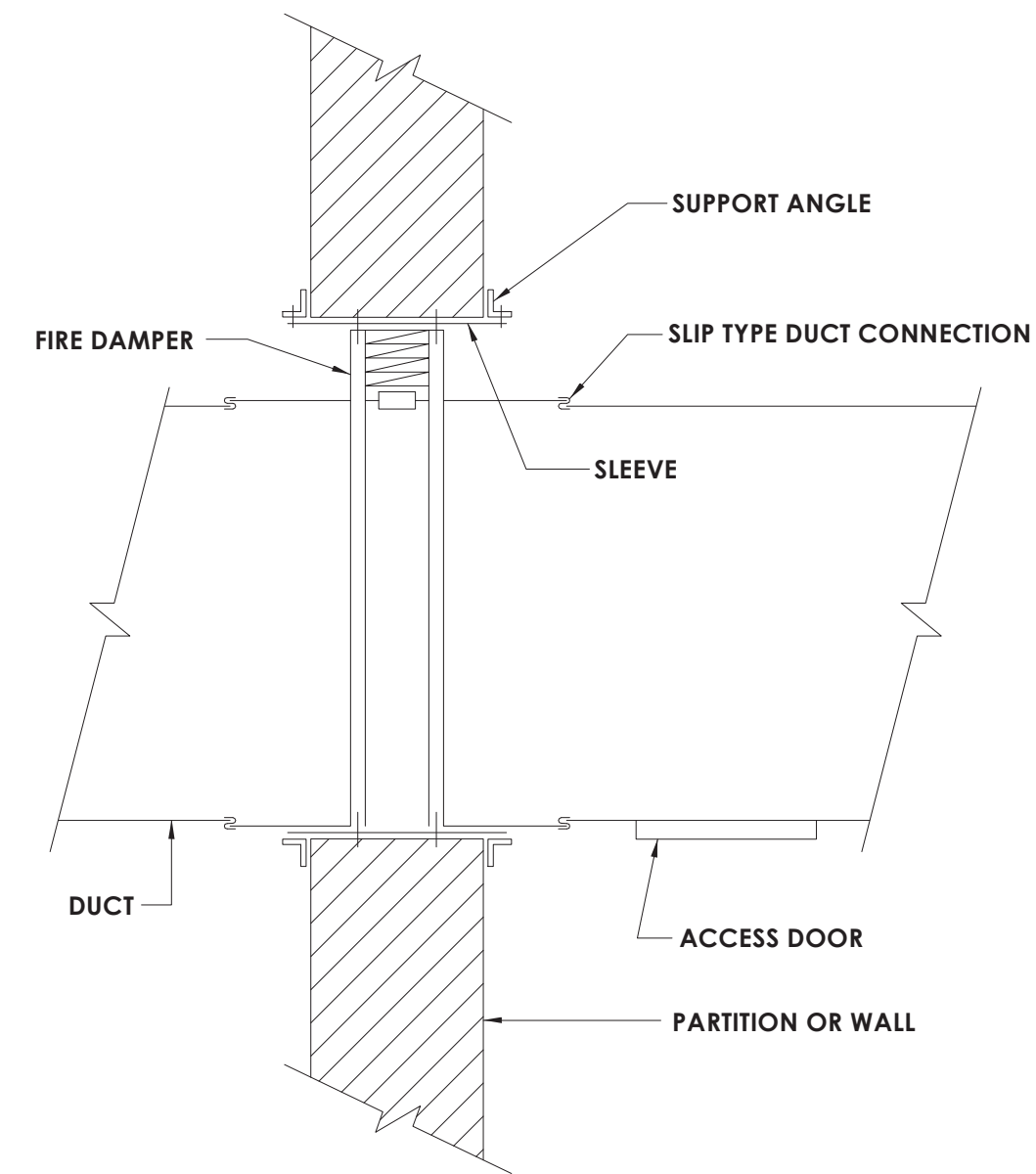
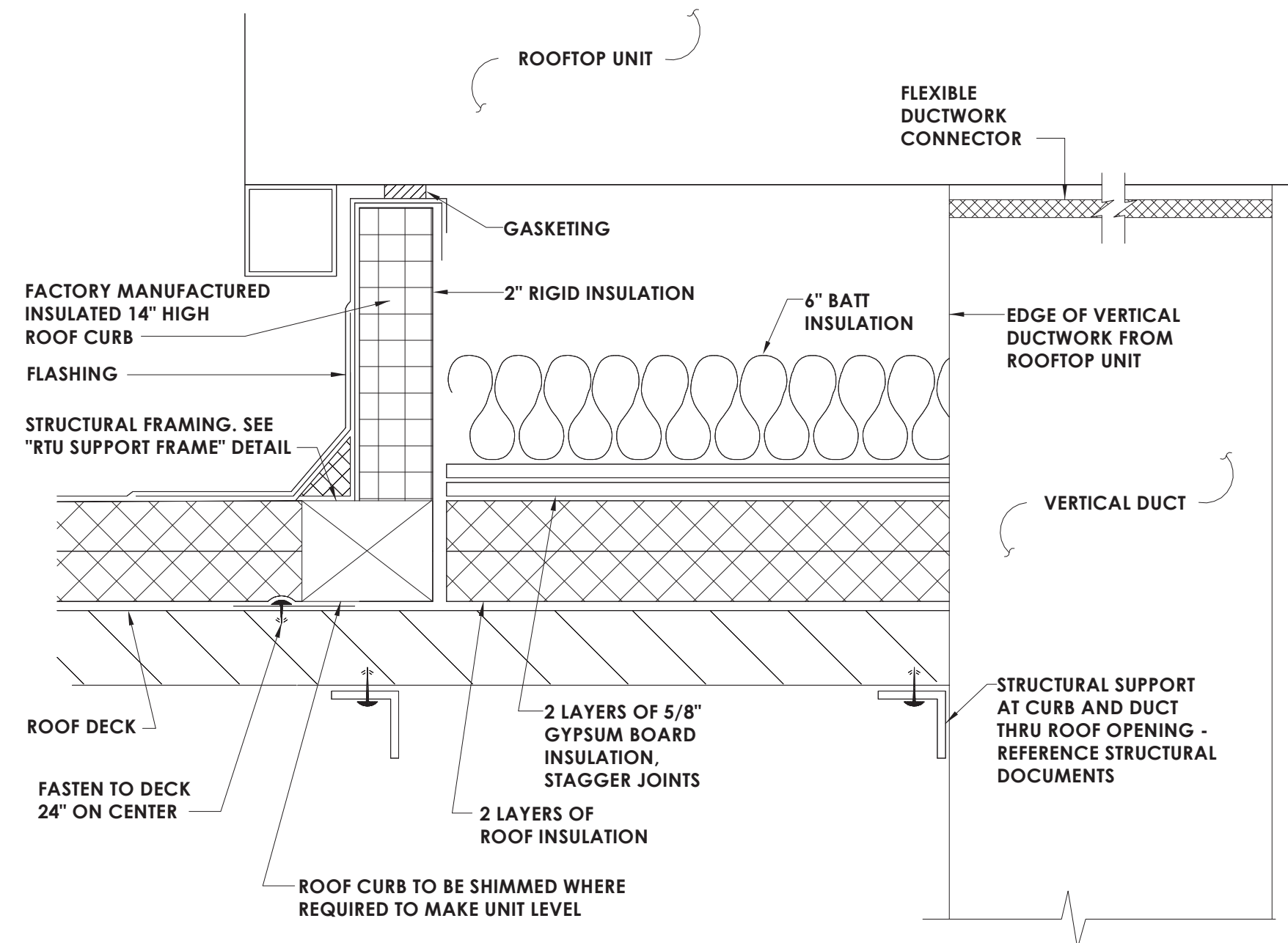


SECTION VIEW

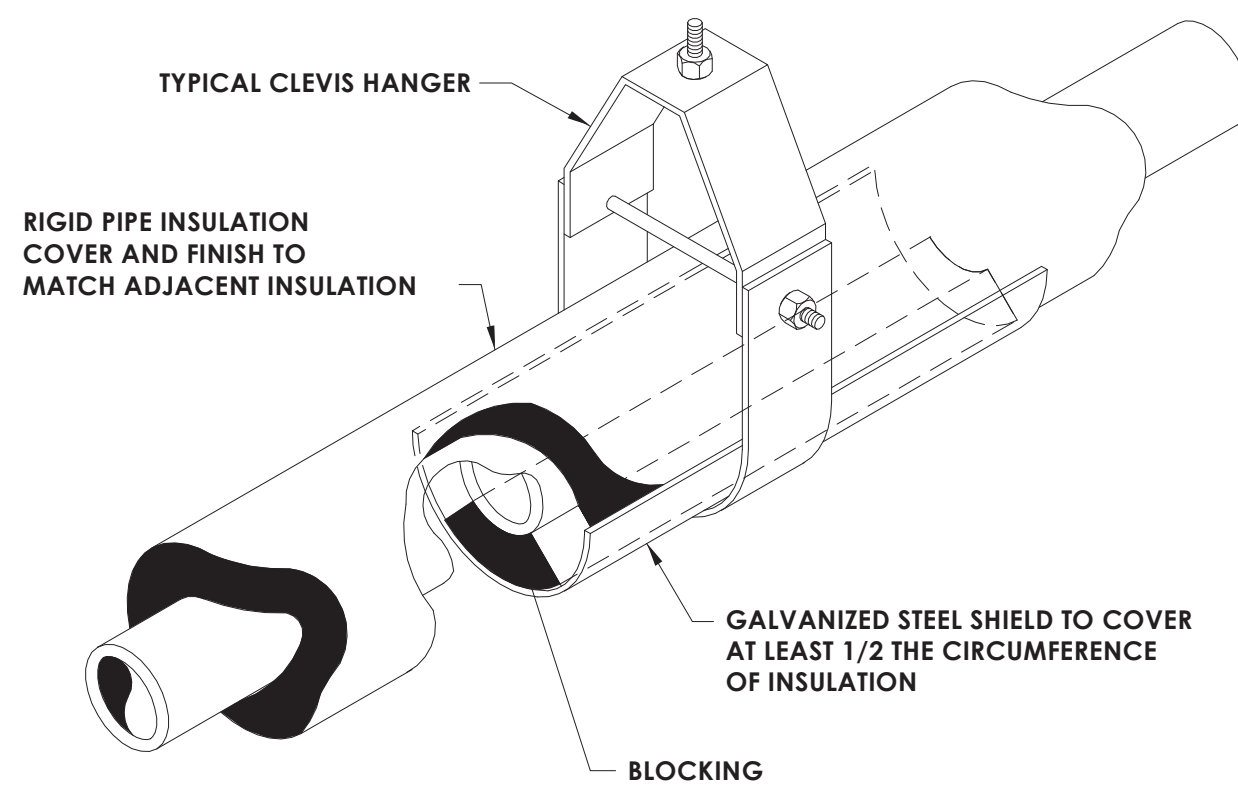
10 H803 NOT TO SCALE
ACCESS DOOR DETAIL

NOTE:
ALL ROOFTOP HVAC UNITS REQUIRED TO HAVE CURB AND CURB INTERIOR AS SHOWN.

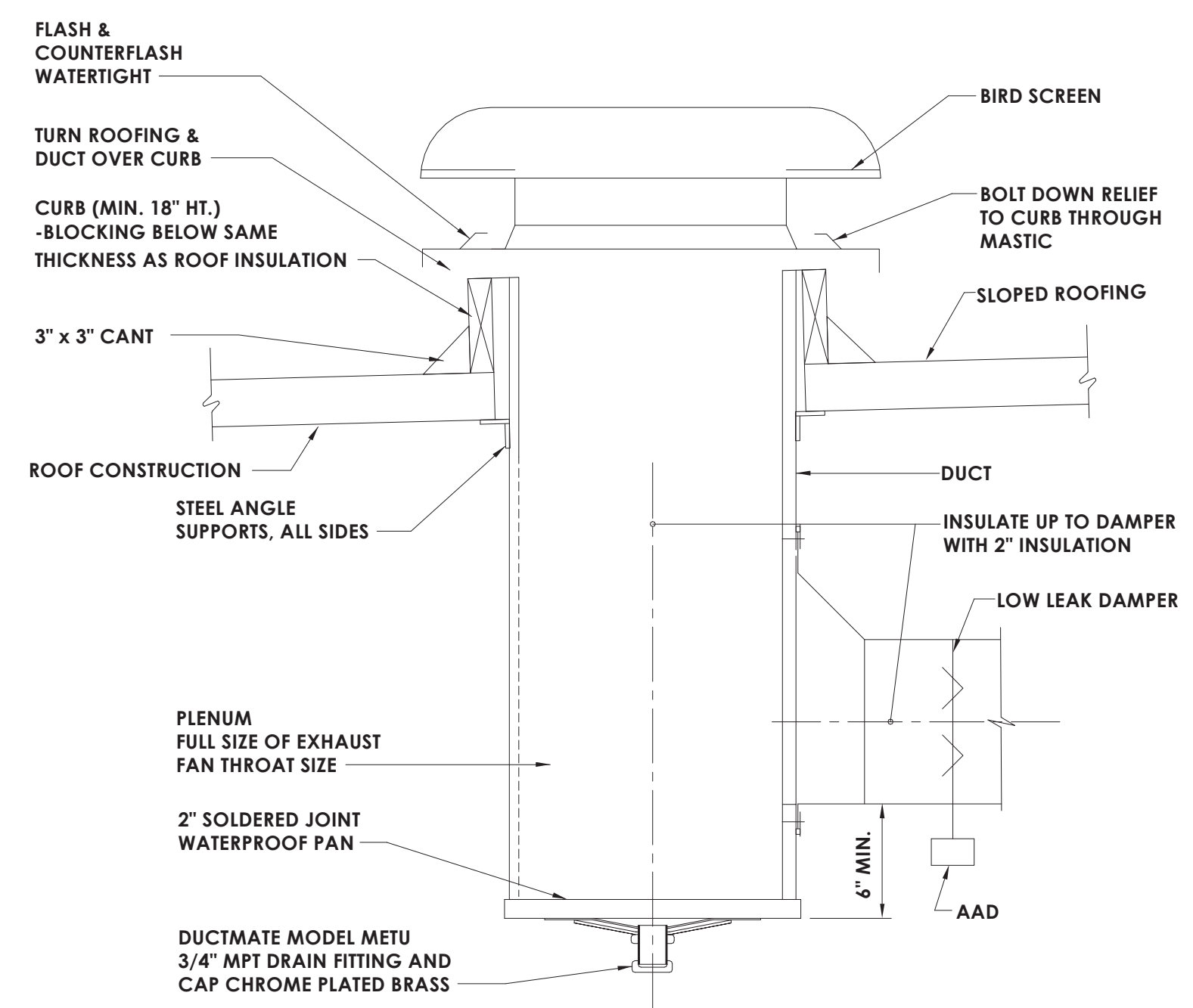
3 H803 NOT TO SCALE
**CURB INTERIOR REQUIREMENTS
ROOFTOP UNIT - ROOF CURB DETAIL**



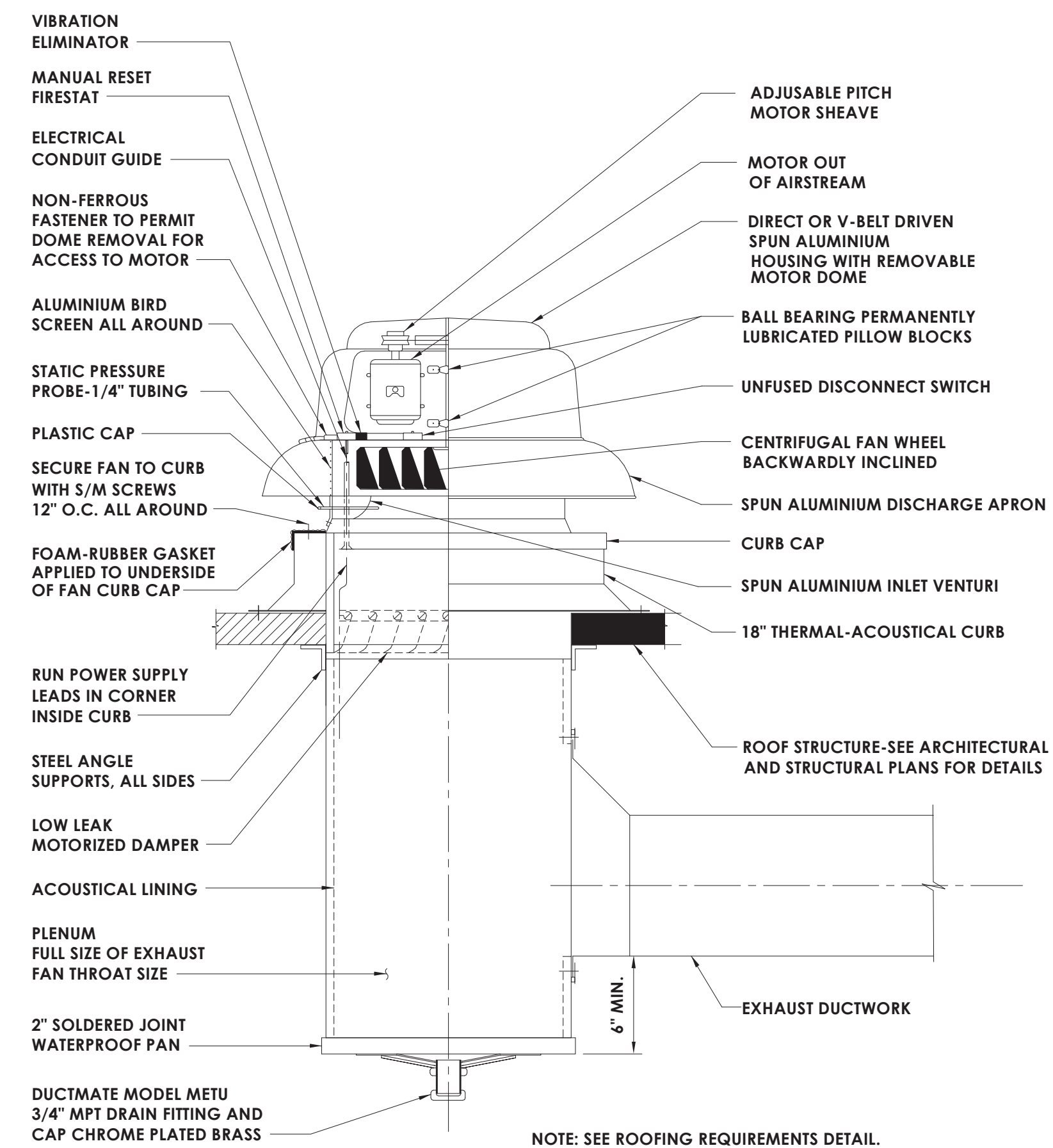
7 H803 NOT TO SCALE
VERTICAL FIRE DAMPER DETAIL



11 H803 NOT TO SCALE
INSULATED PIPE HANGER DETAIL



4 H803 NOT TO SCALE
ROOF AIR INTAKE/RELIEF (GRAVITY) DETAIL



NOTE: SEE ROOFING REQUIREMENTS DETAIL.

8 H803 NOT TO SCALE
EXHAUST FAN DETAIL



CPL | Architecture Engineering Planning
50 FRONT ST. SUITE 202
NEWBURGH, NY 12550
CPLteam.com

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

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.

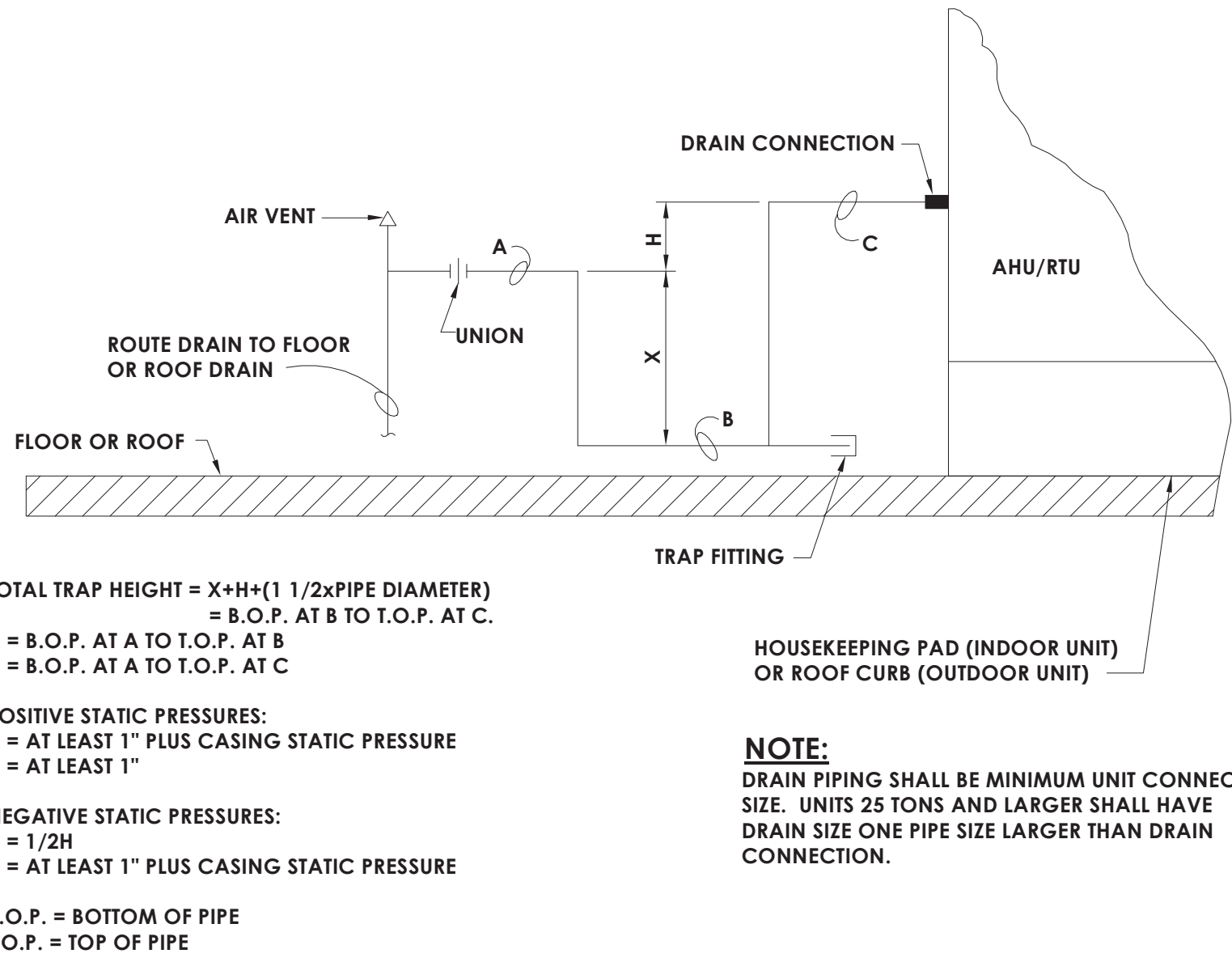
SHEET INFORMATION

Issued
01/29/2021
Scale
12" = 1'-0"
Project Status
CONSTRUCTION DOCUMENTS
Drawn By
Author
Checked By
Checker
Drawing Title
HVAC DETAILS

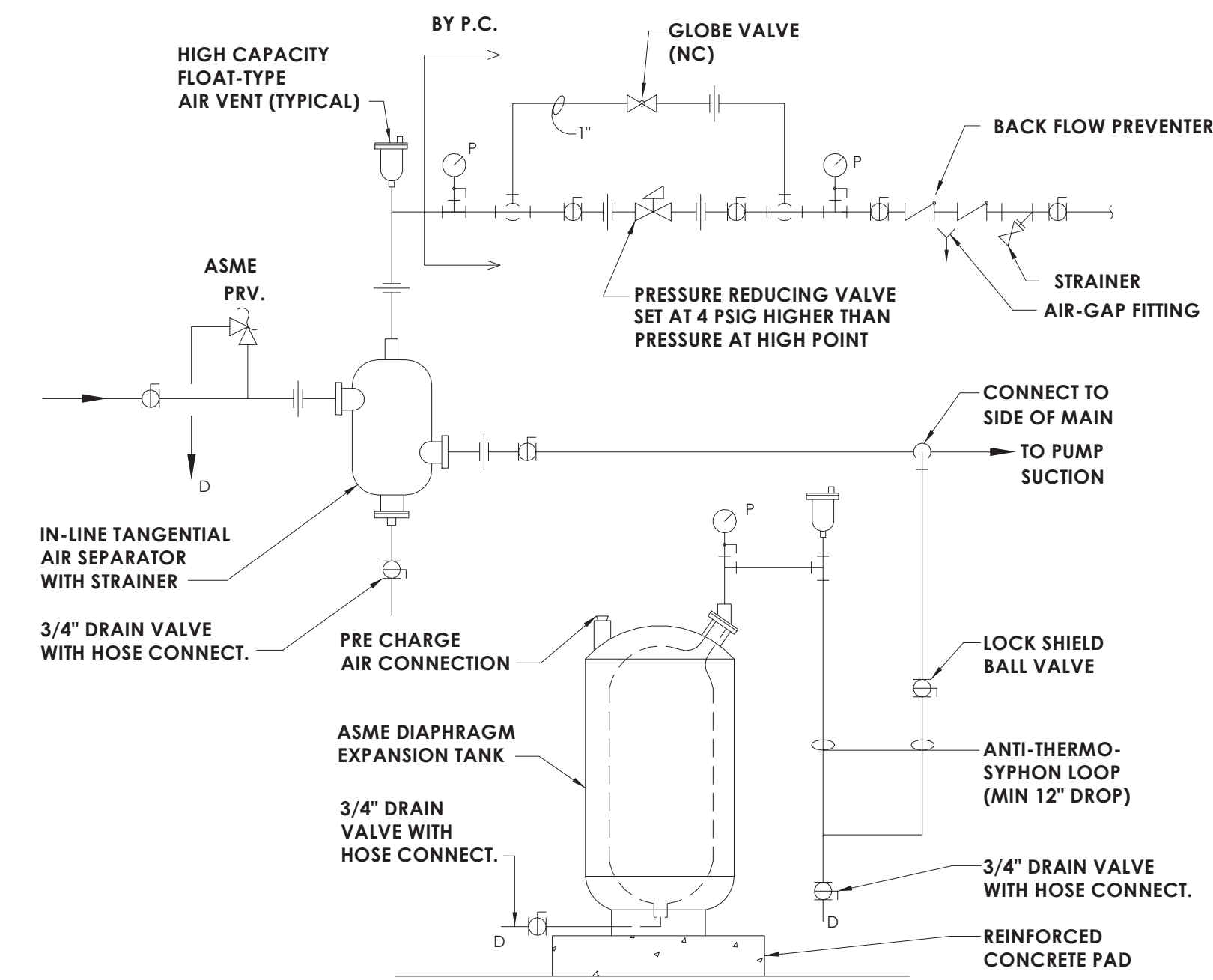
Drawing Number

H803

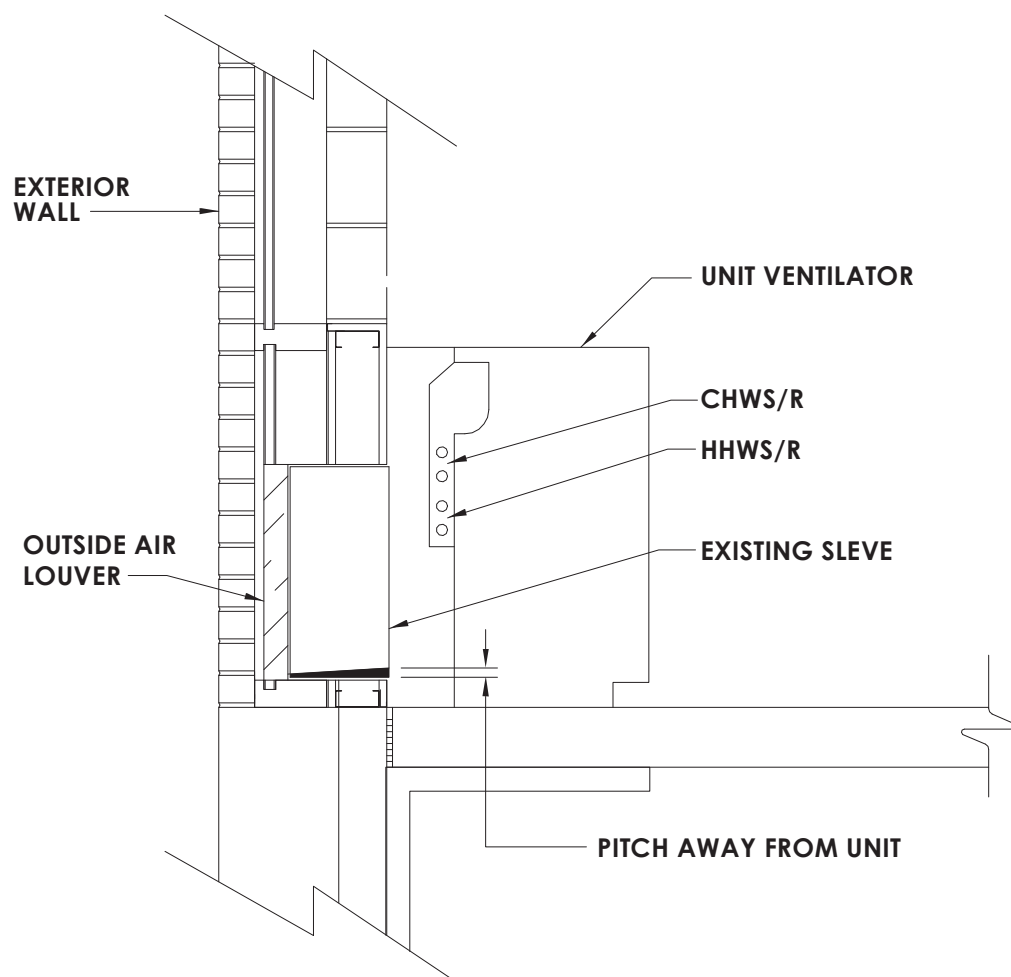
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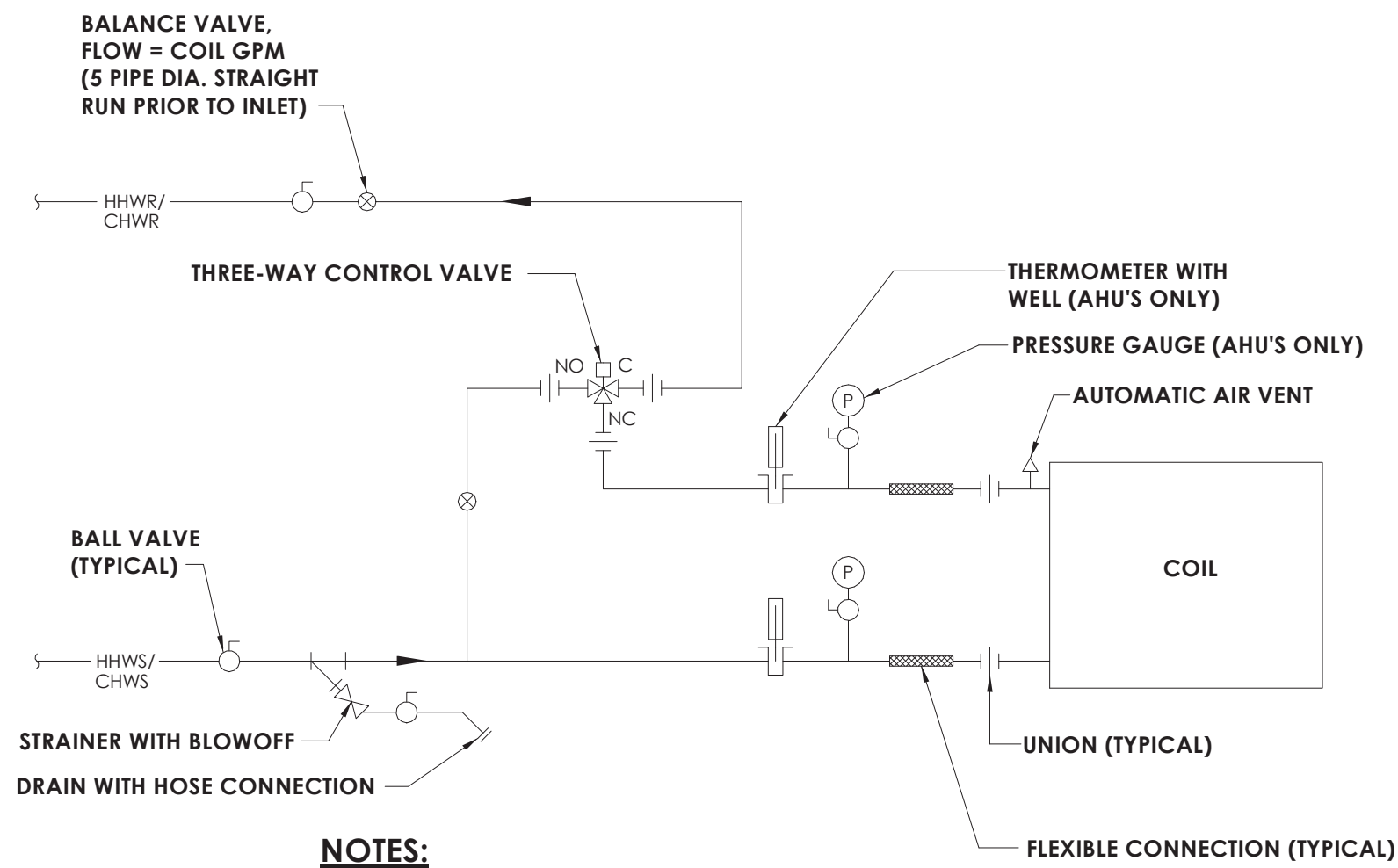
1
H804
NOT TO SCALE
TYPICAL AHU/RTU CONDENSATE DRAIN DETAIL



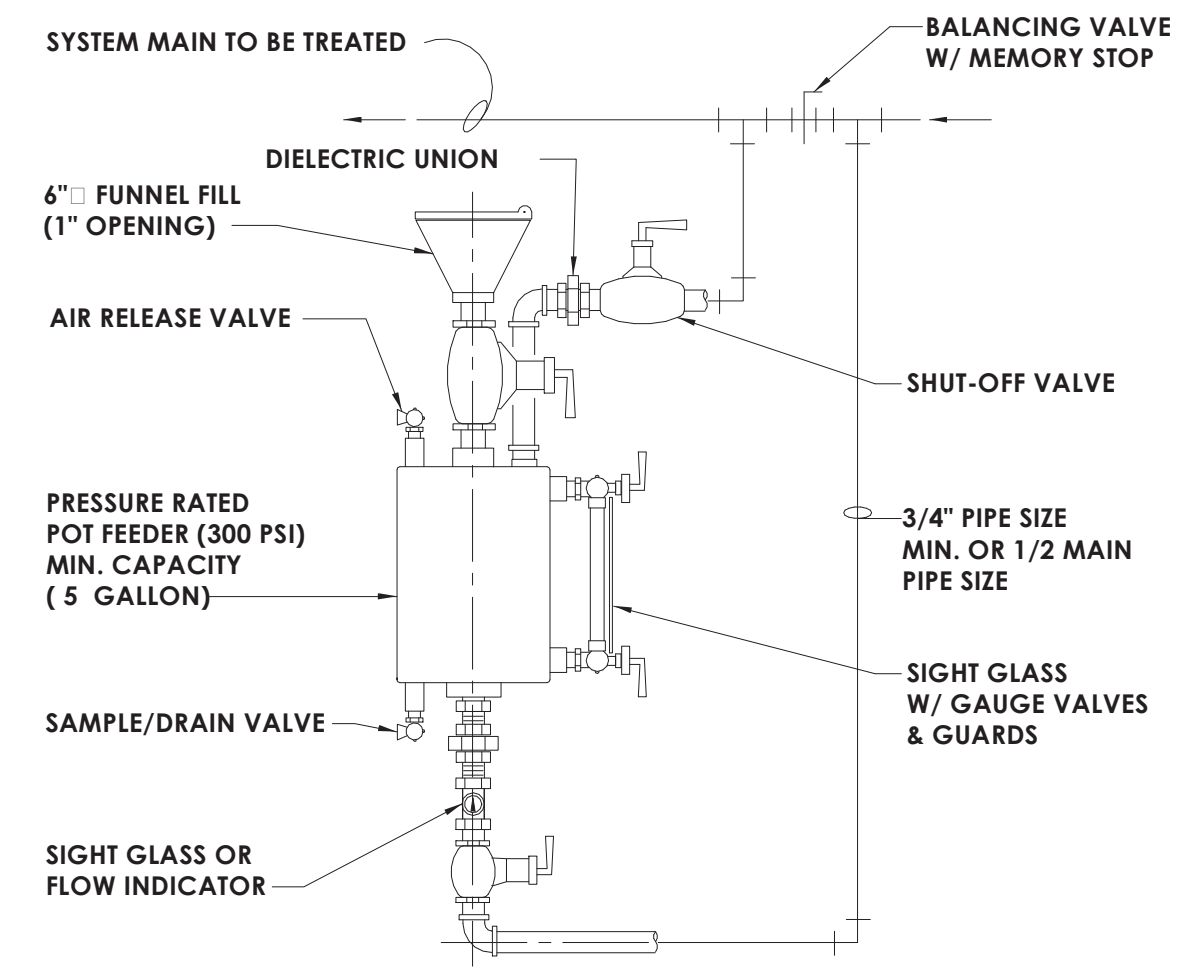
3
H804
NOT TO SCALE
COMPRESSION TANK AND MAKE-UP WATER DETAIL



5
H804
NOT TO SCALE
TYPICAL SECTION AT VERTICAL UNIT VENTILATOR

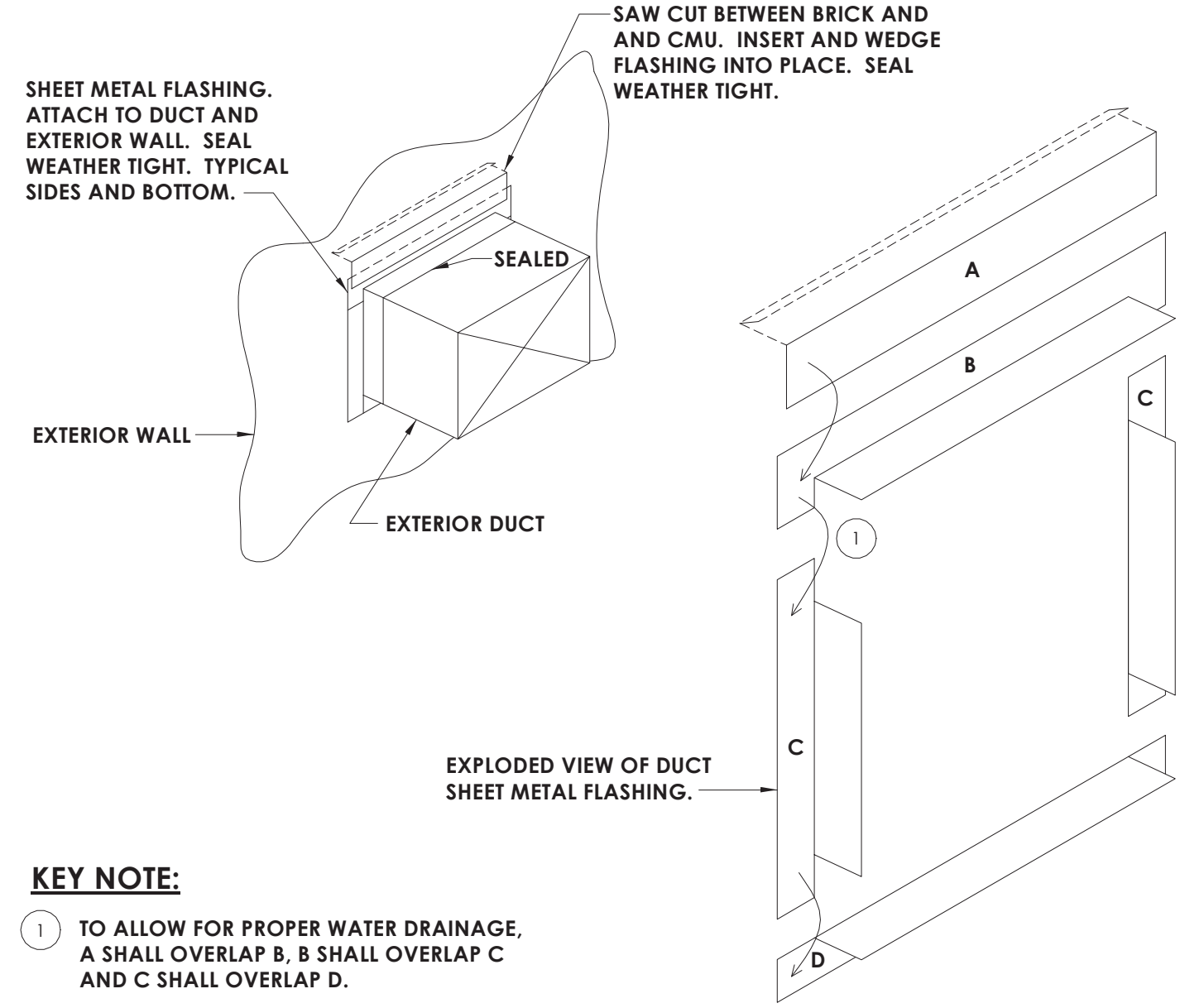


2
H804
NOT TO SCALE
HOT WATER AND CHILLED WATER COIL PIPING SCHEMATIC



NOTE TO DESIGNER
MINIMUM CAPACITY 1/1000 OF SYSTEM VOLUME (5 GAL)
2 1/2 GALLON & LARGER REQ. (3) SUPPORT LEGS ON HOUSEKEEPING PAD.

4
H804
NOT TO SCALE
CHEMICAL POT FEEDER DETAIL



KEY NOTE:
1 TO ALLOW FOR PROPER WATER DRAINAGE, A SHALL OVERLAP B, B SHALL OVERLAP C AND C SHALL OVERLAP D.

6
H804
NOT TO SCALE
FLASHING AND SEALING OF HORIZONTAL EXTERIOR DUCT PENETRATION THROUGH EXTERIOR WALL

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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PROJECT ISSUE SCHEDULE		
No.	Date	Description

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SHEET INFORMATION		
Issued	01/29/2021	
Project Status	CONSTRUCTION DOCUMENTS	
Drawn By	Author	Checked By
Drawing Title	HVAC DETAILS	

Drawing Number

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	511	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, FACOTRY 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.
AS-1	CHILLER PUMP ROOM	CHILLED WATER	300	579	18	44	6	B&G R-6FB
REMARKS:		1. 30% PROPYLENE GLYCOL.						

PUMP SCHEDULE									
MARK	LOCATION	SERVICE	GPM	HD (FT.)	ELECTRICAL DATA			TYPICAL UNIT MFG & MODEL NO.	REMARKS:
					HP	VOLTS	PH		
P-1	STORAGE 423	CHILLED WATER	300	80	10	208	3	B&G E-1510 3EB	1,2,3
P-2	STORAGE 423	CHILLED WATER	300	80	10	208	3	B&G E-1510 23EB	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	12.06	SAMSUNG - AM024KN4DCHI/AA	1,2,3,4,5,6
SSI-2	1500	27000	24000	47	1 / 208 / 60	12.06	SAMSUNG - AM024KN4DCHI/AA	1,2,3,4,5,6
SSI-3	1500	27000	24000	47	1 / 208 / 60	12.06	SAMSUNG - AM024KN4DCHI/AA	1,2,3,4,5,6
SSI-4	1500	27000	24000	47	1 / 208 / 60	12.06	SAMSUNG - AM024KN4DCHI/AA	1,2,3,4,5,6
SSI-5	1500	27000	24000	47	1 / 208 / 60	12.06	SAMSUNG - AM024KN4DCHI/AA	1,2,3,4,5,6
SSI-6	1500	27000	24000	47	1 / 208 / 60	12.06	SAMSUNG - AM024KN4DCHI/AA	1,2,3,4,5,6
SSI-7	1500	27000	24000	47	1 / 208 / 60	12.06	SAMSUNG - AM024KN4DCHI/AA	1,2,3,4,5,6
SSI-8	1500	27000	24000	47	1 / 208 / 60	12.06	SAMSUNG - AM024KN4DCHI/AA	1,2,3,4,5,6
SSI-9	350	13500	12000	20.9	1 / 208 / 60	0.31	SAMSUNG - AM012TNVDCHI/AA	1,2,3,4,5,6
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. 6. OUTDOOR UNIT POWERS INDOOR UNITS.						

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)	H (IN.)	ENCLOSURE		D (IN.)	STYLE	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
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)	IPLV	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 ΔT	GPM	WPD-FT-WC	WATTS	VOLTS	PHASE		
FC-1	DUCTED	159 CUSTODIAN	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	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	115	60	AIRTHERM 101-1	1,2,3,4
FC-3	CEILING RECESSED		1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	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	115	60	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	115	60	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	115	60	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	115	60	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	115	60	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	115	60	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	115	60	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	115	60	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
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
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
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
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.																			

HOT WATER COIL SCHEDULE																
MARK	SERVICE	AIR DATA						WATER DATA				MFG SIZE HXL (IN.)	ROWS	TYPICAL UNIT MFG & MODEL NO.	REMARKS:	
		CFM	TEMP (°F)		MAX APD (IN. WC)	MIN. MBH	GPM	TEMP (°F)		MAX APD (IN. WC)						
			ENT	LVG				ENT	LVG							
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		
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 OD 0.625, TUBE SPACING 1.50X1.299														

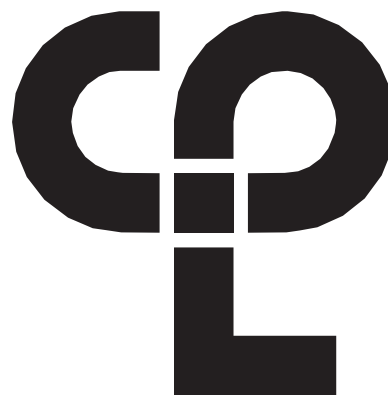
REGISTERS, GRILLES, AND DIFFUSERS						
MARK	APPLICATION	MATERIAL	TYPE	FINISH	DESIGN EQUIP.	REMARKS
D1	SUPPLY	STEEL	LAY-IN	WHITE	PRICE SPD	4
D2	SUPPLY	STEEL	DUCT GRILLE	WHITE	PRICE SDG	1,3
S1	SUPPLY	STEEL	DUCT GRILLE	WHITE	PRICE HCD	1
R1	RETURN/EA	STEEL	LAY-IN	WHITE	PRICE PDR	4
R2	RETURN/EA	STEEL	WALL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

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	EWT °F	EAT °F	LAT °F	MBH	GPM	EWT °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-GRV-2	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	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-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	1138	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	33255.3	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	33255.3	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 MAUH	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 MAUH	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 MAUH	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 MAUH	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 MAUH	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	39060.0	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. 2. CONDENSATE PUMP LITTLE GIANT VCC-205, 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	ESP. (IN.WG)	RPM	FAN BLOWER				SHAKER MOTOR		
							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
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 SUPPRESSION SYSTEM.											

LOUVER SCHEDULE								
MARK	LOCATION	SERVICE	FREE AREA (SQ. FT.)	CFM	SP (IN. WG)	SIZE W&H (IN.)	TYPICAL UNIT MFG. & MODEL NO.	REMARKS:
L-1	GYM	AHU-3	4.2	1400	0.15	36x36	RUSKIN ELF37SD	1,2,3.
L-2	GYM	AHU-4	4.2	1400	0.15	36x36	RUSKIN ELF37SD	1,2,3
REMARKS:	1. 54% FREE AREAS, HIGH PERFORMANCE FRAME SYSTEM WITH DRAINABLE HEAD. 2. DRAIN GUTTERS IN BLADES. 3. 4" DEEP, 37-1/2 DEGREE BLADES.							

OA VENTILATION CALC									
ROOM NUMBER	ROOM NAME	SQFT	CLASSIFICATION	PEOPLE/1000	PEOPLE	CFM/PERSON	OA/SQFT	OA TOTAL	OA W/ EZ
101	7TH GRADE GEN SCIENCE	1000	CLASSROOM	35	35	10	0.12	470	588
104	7TH GRADE GEN SCIENCE	1146	CLASSROOM	35	40.11	10	0.12	539	673
105	8TH GRADE ELA CLASSROOM	900	CLASSROOM	35	31.5	10	0.12	423	529
105A	SCIENCE 12:1:1	500	CLASSROOM	35	17.5	10	0.12	235	294
105B	SCHOOL PSYCHOLOGIST	250	OFFICE	5	1.25	5	0.06	21	27
105C	CONFERENCE ROOM	250	CONFERENCE	50	12.5	5	0.06	78	97
106	8TH GRADE MATH CLASSROOM	716	CLASSROOM	35	25.06	10	0.12	337	421
107	ISS	364	CLASSROOM	35	12.74	10	0.12	171	214
108	SAFE	363	CLASSROOM	35	12.705	10	0.12	171	213
109	8TH GRADE S.S. CLASSROOM	716	CLASSROOM	35	25.06	10	0.12	337	421
110	GENERAL SCIENCE	944	CLASSROOM	35	33.04	10	0.12	444	555
111	GENERAL SCIENCE	941	CLASSROOM	35	32.935	10	0.12	442	553
112	8TH GRADE MATH CLASSROOM	807	CLASSROOM	35	28.245	10	0.12	379	474
113A	TECHNOLOGY	900	CLASSROOM	35	31.5	10	0.12	423	529
113B	TECHNOLOGY	900	CLASSROOM	35	31.5	10	0.12	423	529
114	8TH GRADE GEN SCIENCE	1144	CLASSROOM	35	40.04	10	0.12	538	672
201	ISS 12:1:1	495	CLASSROOM	35	17.325	10	0.12	233	291
202	HOME & CAREERS	979	CLASSROOM	35	34.265	10	0.12	460	575
203	MATH	835	CLASSROOM	35	29.225	10	0.12	392	491
204	S.S.	798	CLASSROOM	35	27.93	10	0.12	375	469
206	ELA	1000	CLASSROOM	35	35	10	0.12	470	588
208	SPEC ED CLASSROOM	363	CLASSROOM	35	12.705	10	0.12	171	213
209	S.S.	716	CLASSROOM	35	25.06	10	0.12	337	421
210	8:1:1	419	CLASSROOM	35	14.665	10	0.12	197	246
212	SPEC ED CLASSROOM	721	CLASSROOM	35	25.235	10	0.12	339	424
213	HOME & CAREERS	943	CLASSROOM	35	33.005	10	0.12	443	554
214	ELA	808	CLASSROOM	35	28.28	10	0.12	380	475
215	ELA	769	CLASSROOM	35	26.915	10	0.12	361	452
216	S.S.	840	CLASSROOM	35	29.4	10	0.12	395	494
301	MATH 12:1:1	766	CLASSROOM	35	26.81	10	0.12	360	450
302	MATH	772	CLASSROOM	35	27.02	10	0.12	363	454
303	ELA	816	CLASSROOM	35	28.56	10	0.12	384	479
304	MATH	900	CLASSROOM	35	31.5	10	0.12	423	529
305	ELA	485	CLASSROOM	35	16.975	10	0.12	228	285
306	SCIENCE CLASSROOM	826	CLASSROOM	35	28.91	10	0.12	388	485
307	SCIENCE CLASSROOM	798	CLASSROOM	35	27.93	10	0.12	375	469
309	CLASSROOM	744	CLASSROOM	35	26.04	10	0.12	350	437
310	MATH	712	CLASSROOM	35	24.92	10	0.12	335	418
311	CLASSROOM	734	CLASSROOM	35	25.69	10	0.12	345	431
312	CLASSROOM	744	CLASSROOM	35	26.04	10	0.12	350	437
313	S.S.	651	CLASSROOM	35	22.785	10	0.12	306	382
314	MATH	669	CLASSROOM	35	23.415	10	0.12	314	393
315	ELA	784	CLASSROOM	35	27.44	10	0.12	368	461
316	CLASSROOM	808	CLASSROOM	35	28.28	10	0.12	380	475
317	S.S.	770	CLASSROOM	35	26.95	10	0.12	362	452
318	ELA	840	CLASSROOM	35	29.4	10	0.12	395	494
320	SCIENCE CLASSROOM	829	CLASSROOM	35	29.015	10	0.12	390	487
321	ART CLASSROOM	483	ART CLASSROOM	20	9.66	10	0.18	184	229
401	MATH	687	CLASSROOM	35	24.045	10	0.12	323	404
402	S.S./ICT	1065	CLASSROOM	35	37.275	10	0.12	501	626
404	ART CLASSROOM	1161	ART CLASSROOM	20	23.22	10	0.18	441	551
405	ELA	687	CLASSROOM	35	24.045	10	0.12	323	404
421	GYMNASIUM	7640	GYM PLAY AREA	7	53.48	10	0.12	1452	1815
434	MUSIC CLASSROOM	1650	MUSIC CLASSROOM	35	57.75	10	0.12	776	969
435	MUSIC ROOM	206	MUSIC CLASSROOM	35	7.21	10	0.12	97	121
436	PRACTICE	85	MUSIC CLASSROOM	35	2.975	10	0.12	40	50
438	PRACTICE	83	MUSIC CLASSROOM	35	2.905	10	0.06	34	43
442	OFFICE	76	OFFICE	5	0.38	5	0.06	6.46	8.075
444	KITCHEN	1046	KITCHEN	20	20.92	7.5	0.12	282	353
445	SERVERY	690	KITCHEN	20	13.8	7.5	0.12	186	233
446	DISHWASHER	310	KITCHEN	20	6.2	7.5	0.12	84	105
448	CAFETERIA/STUDY HALL	4687	CAFETERIA	70	328.09	7.5	0.18	3304	4130
448A	CAFETERIA/STUDY HALL	2028	CAFETERIA	70	141.96	7.5	0.18	1430	1787
600	WEIGHTLIFTING	1000	WEIGHT ROOM	10	10	20	0.06	260	325



CPL | Architecture Engineering Planning
50 FRONT ST, SUITE 202
NEWBURGH, NY 12550
CPLteam.com

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

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

PROJECT ISSUE SCHEDULE

No. Date Description

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"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
H902