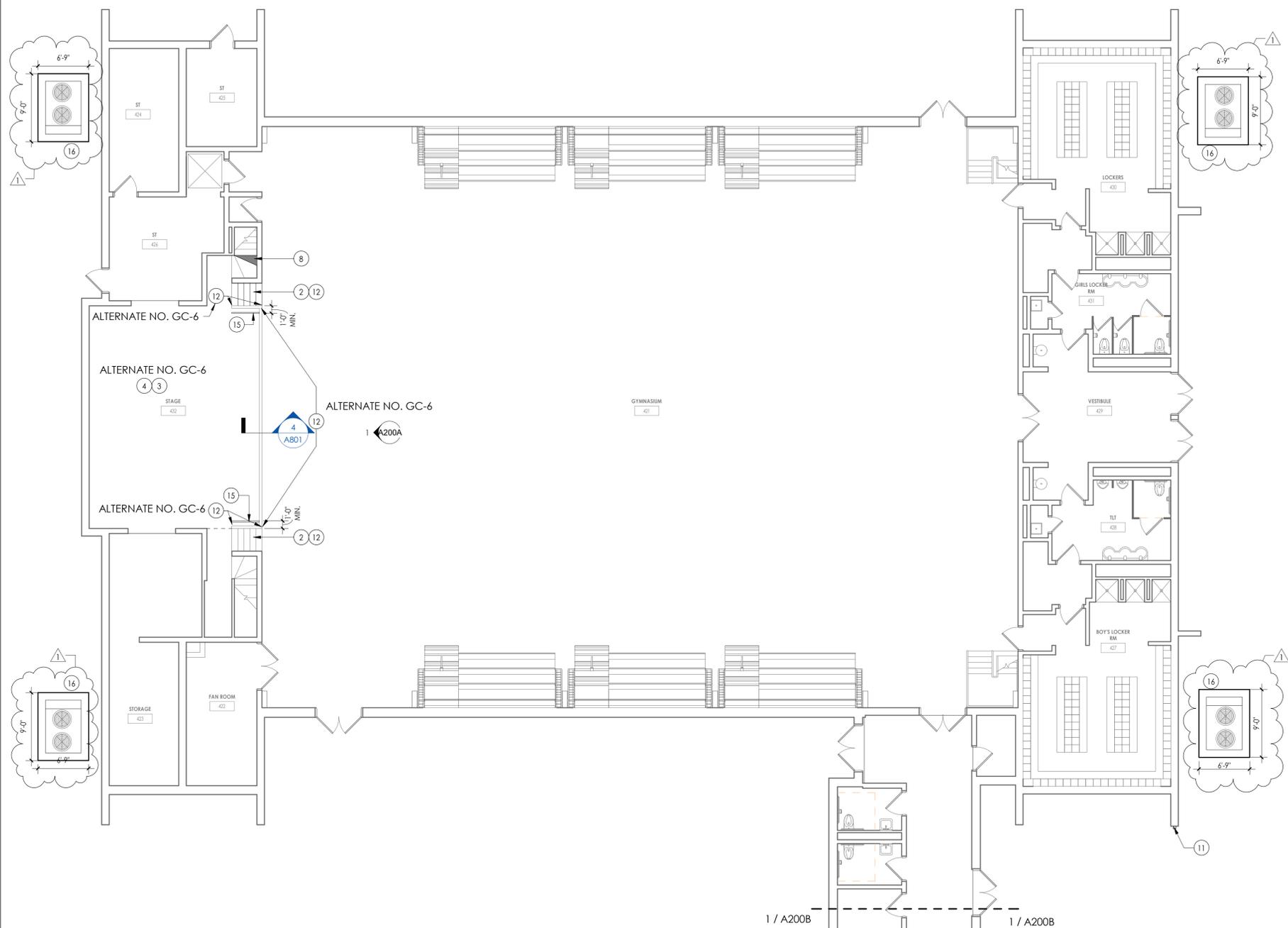


**1 GYM STAGE INTERIOR ELEVATION**  
A200A 1/4" = 1'-0"



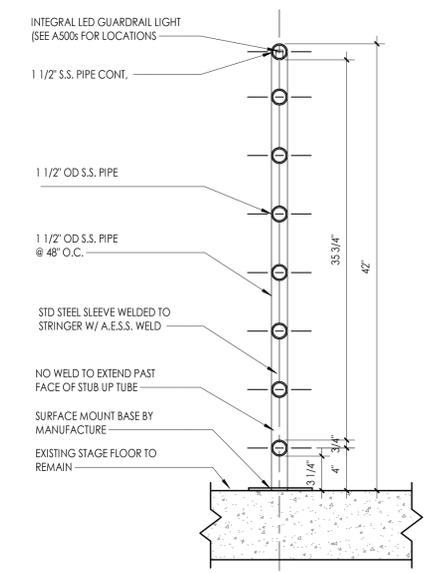
**2 GROUND FLOOR AREA A - NEW WORK**  
A200A 1/8" = 1'-0"

**FLOOR PLAN GENERAL NOTES**

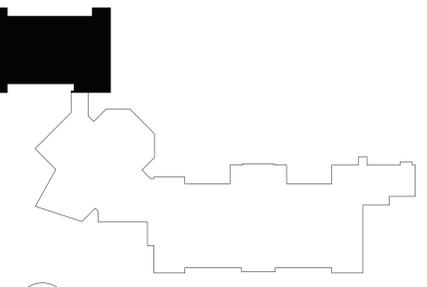
1. ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. THE GENERAL CONTRACTOR IS RESPONSIBLE TO FIRESTOP ALL NEW PARTITIONS TO THE STRUCTURAL DECK ABOVE. FIRESTOPPING HEADS OF WALLS IS TO OCCUR AT ALL NEW WALL CONSTRUCTION WITHIN THE PROJECT.
3. ALL WALL DIMENSIONS INDICATED ON FLOOR PLANS ARE TO FACE OF STUD FRAMING OR MASONRY UNLESS OTHERWISE NOTED.
4. SEE SHEET A400 FOR INTERIOR PARTITION TYPES
5. SEE A900s FOR INTERIOR AND EXTERIOR DOORS, WINDOWS, CURTAINWALLS, AND STOREFRONTS
6. PROVIDE AN EDGE/TRANSITION STRIP CENTERED UNDER ALL DOORS WHERE ADJACENT FLOOR FINISHES ARE OF DIFFERENT MATERIALS
7. PROVIDE ACCESS PANELS, MINIMUM 24" x 24", OR OF SIZES REQUIRED, WHERE PLUMBING AND HEATING VALVES, WATER SWITCHES, VENTILATION SPLITTER DAPMERS, ETC. ARE SHOWN ON PLUMBING, HEATING AND VENTILATION DRAWINGS.
8. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE LEFT BROOMED CLEAN AT END OF EACH DAY.
9. ALL DOORS AND WINDOW SYSTEMS TO HAVE SEALANT AROUND THE ENTIRE PERIMETER (BOTH SIDES) OF FRAMES
10. CONTRACTOR TO COORDINATE WITH OTHER TRADES FOR SEQUENCING OF WORK.
11. REFER TO A700 FOR TYPICAL FIXTURE MOUNTING HEIGHTS AND ACCESSORIES LEGEND.

**FLOOR PLAN KEY NOTES**

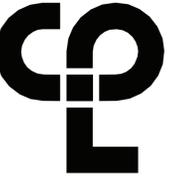
1. PATCH TO MATCH FLOOR AT MECHANICAL EQUIPMENT REMOVAL WHERE INDICATED BY HATCH. PROVIDE NEW FINISHED END PANELS AT CASEWORK AFFECTED BY UV REMOVALS. MATCH EXISTING FINISH AND COLOR
2. NEW RUBBER STAIR RISERS AND TREADS. REFER TO INTERIOR DRAWINGS.
3. ALTERNATE - PROVIDE NEW WOOD FLOORING AT EXISTING STAGE AREA. REFER TO INTERIOR DRAWINGS FOR FLOOR FINISH.
4. NEW LIGHTING, SOUND AND STAGE RIGGING. COORDINATE WORK WITH EC. REFER TO TL, TR, TS SERIES.
5. PROVIDE NEW COLUMN WRAP. REFERENCE DETAIL ON A800.
6. PROVIDE NEW CEILING HUNG OPERABLE PARTITION.
7. PATCH EXISTING WALL. COORDINATE WORK WITH M.C. REFER TO A801 FOR DETAILS. GC TO PAINT SURFACE CORNER TO CORNER AND FLOOR TO CEILING TO MATCH EXISTING COLOR.
8. PROVIDE NEW WOOD STAIR TREAD TO MATCH EXISTING. REPAIR ANY MOUNTING COMPONENTS AS NECESSARY.
9. NEW DRINKING FOUNTAIN. COORDINATE WORK WITH PLUMBING CONTRACTOR.
10. PATCH CONCRETE S.O.G. TO MATCH EXISTING.
11. PROVIDE NEW DOWNSPOUT. COORDINATE WORK WITH CIVIL DRAWINGS.
12. PROVIDE NEW SAFETY WALL PADDING. PROVIDE FASTENING SYSTEM TO ENSURE TEMPORARY REMOVAL AND REINSTALLATION.
13. PATCH TO MATCH EXISTING WALL, BASE, FLOOR AND CEILING FINISHES IN AREAS AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION.
14. LAMINATE 5/8" GYPSUM BOARD OVER CMU WALL.
15. NEW PIPE RAIL. REFER TO DETAIL 3/200A
16. CONCRETE MOVEMENT ALLOWED EQUIPMENT PAD. REFER TO DETAIL 6/5802 AND HD DRAWINGS. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT SIZE AND LOCATION.



**3 HANDRAIL INTO CONCRETE**  
A200A 1/2" = 1'-0"



**KEYPLAN AREA A**  
NTS



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

**PROJECT ISSUE SCHEDULE**

No. Date Description  
1 09/21/21 BID ADDENDA 1

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**SHEET INFORMATION**

Issued  
9/9/2021 Scale  
As indicated  
Project Status  
CONSTRUCTION DOCUMENTS  
Drawn By  
Checked By  
CPL  
Drawing Title  
GROUND FLOOR AREA A - NEW WORK PLAN

Drawing Number  
HMS  
A200A



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 NEWBURGH, NY 12550  
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**ROOF PLAN GENERAL NOTES**

1. ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK.
2. REFER TO ALL DRAWINGS IN THE SET FOR LOCATIONS OF ALL ROOF PENETRATIONS. PROVIDE FRAMING AS REQUIRED.
3. CONTRACTOR SHALL PAINT ALL ROOF FASTENERS EXPOSED TO VIEW AT UNDERSIDE OF DECK TO MATCH.
4. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE BROOM CLEAN AT THE END OF EACH DAY.
5. ALL WOOD BLOCKING USED SHALL BE PRESSURE TREATED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL ROOF DRAINS AND CUTTING THE HOLES IN THE DECK FOR ANY DRAINS AND PROVIDING STRUCTURAL SUPPORTS.
7. THE ROOF ELEVATIONS SHOWN ON THE PLAN ARE SHOWN TO ESTABLISH RELATIVE HEIGHTS OF THE INDIVIDUAL ROOFS.
8. NO WEEP HOLES SHALL BE COVERED OR PLUGGED AS A RESULT OF THE ROOFING WORK, UNLESS OTHERWISE DIRECTED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN WATER TIGHTNESS AND PROVIDE PROTECTION AT ANY/ALL OPENINGS IN THE ROOF LEFT AT THE END OF EACH DAY.
10. PROVIDE CRICKETS FOR WATER DIVERSION AT ALL CURBS, RAILS, ETC. WHICH RUN PERPENDICULAR TO THE SLOPE OF THE INSULATION/SLOPED STRUCTURE.
11. ALL ROOF TOP UNITS SHALL BE MOUNTED ON 1/2" MIN. INSULATED METAL CURBS. PROVIDE TAPERED INSULATION CRICKETS AS REQUIRED TO SHED WATER. WOOD BLOCKING SHALL BE PROVIDED SO CURBS ARE 8" ABOVE FINISHED ROOF SURFACE.
12. THE MINIMUM INSULATION THICKNESS SHALL BE 5.5". SLOPE OF TAPERED INSULATION TO BE A MINIMUM OF 1/4" PER FOOT FOR NEW CONSTRUCTION AND 1/8" PER FOOT OVER EXISTING STRUCTURE.

**ROOF PLAN LEGEND**

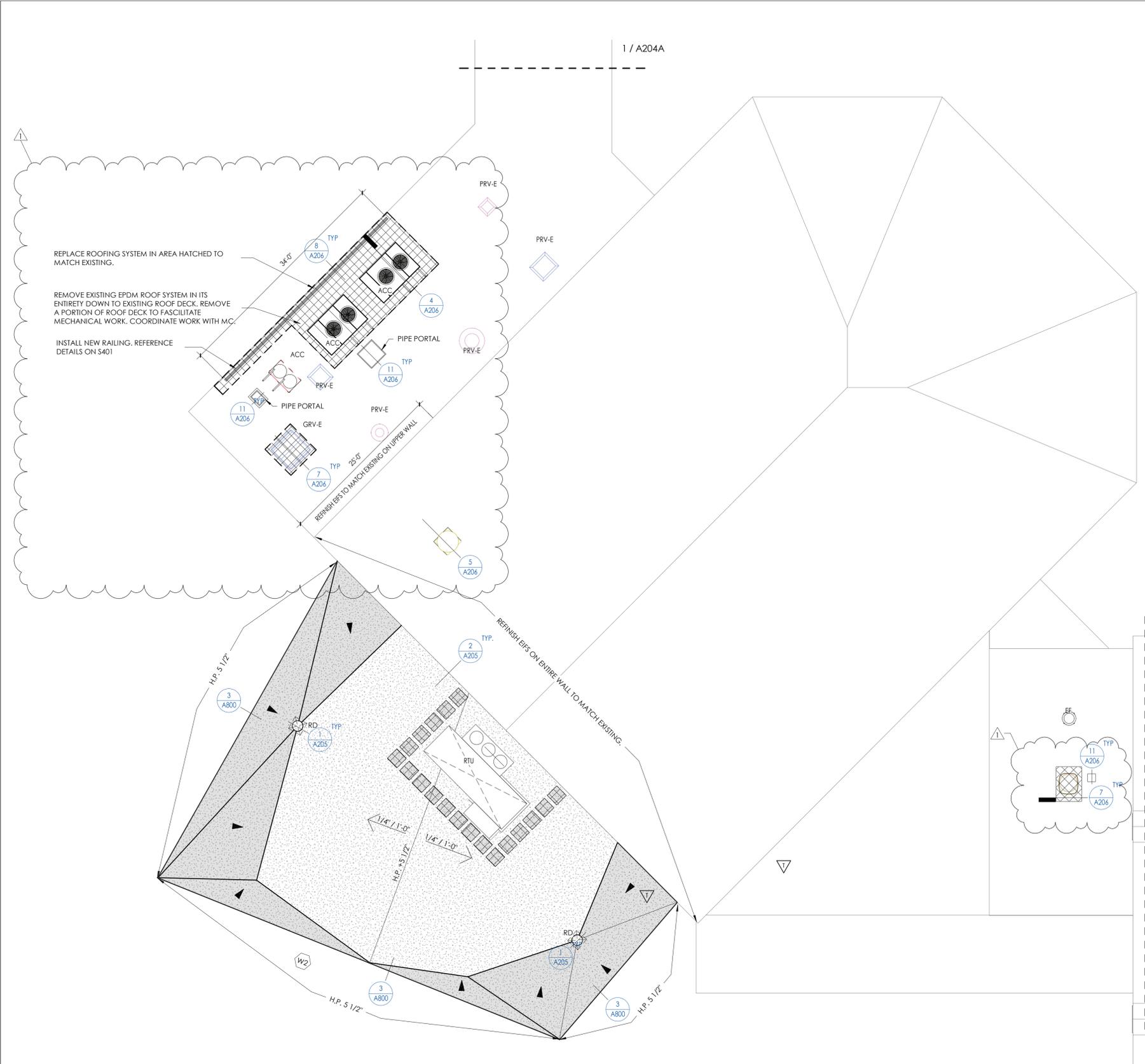
	ROOF DRAIN W/ SECONDARY
	SLOPED INSULATION HIGH POINT (MIN. 5 1/2")
	SLOPED INSULATION ROOF CRICKET. PROVIDE 1/2" / 1'-0" POSITIVE DRAINAGE
	MECH. CURB (W/ CRICKET). PROVIDE FLASHING PER ROOF MANUFACTURER'S DETAILS
	ROOF SLOPE
	2'-0" x 2'-0" ROOF MEMBRANE WALKWAY SYSTEM
	NEW EPDM ROOF SYSTEM AS SPECIFIED

**PROJECT INFORMATION**

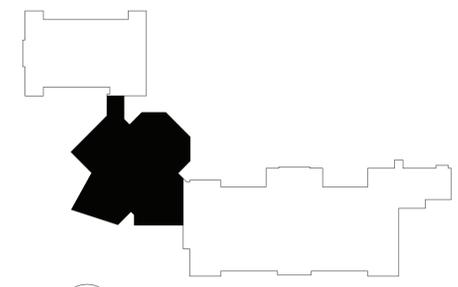
Project Number  
13940.18  
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**NEWBURGH ENLARGED CITY SCHOOL DISTRICT**  
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 SID Number  
44-16-00-01-0-039-011

**PROJECT ISSUE SCHEDULE**

No.	Date	Description
1	09/21/21	BID ADDENDA 1



**1 ROOF PLAN AREA B**  
 A204B 1/8" = 1'-0"

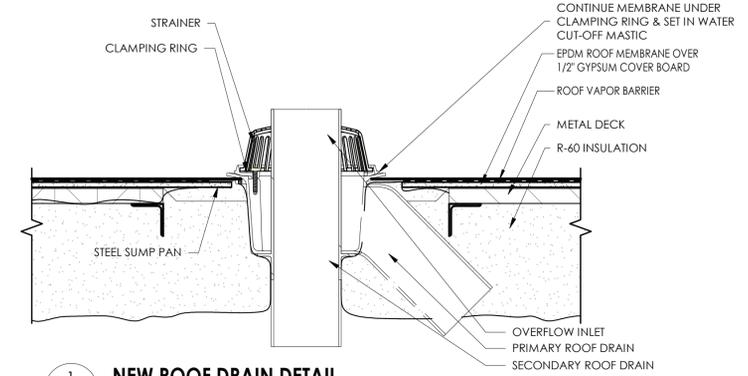


**KEYPLAN AREA B**  
 NTS

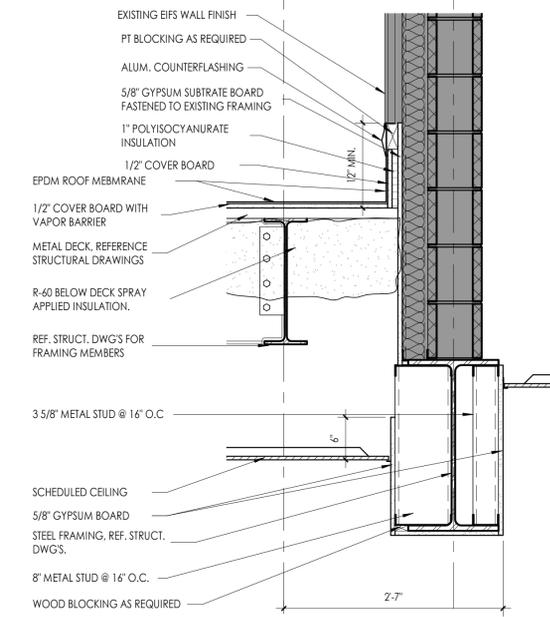
**SHEET INFORMATION**

Issued  
9/9/2021  
 Project Status  
CONSTRUCTION DOCUMENTS  
 Drawn By  
Checked By  
CPL  
 Drawing Title  
ROOF PLAN AREA B

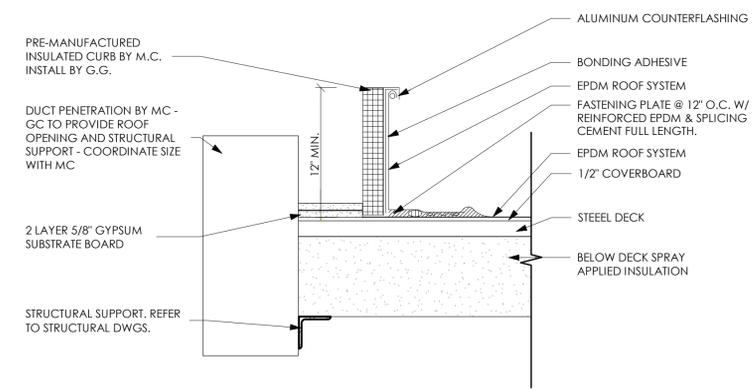
Drawing Number  
**HMS A204B**



1 NEW ROOF DRAIN DETAIL  
 A205 1 1/2" = 1'-0"



2 ROOF TO EXISTING WALL DETAIL  
 A205 1" = 1'-0"



3 TYPICAL ROOF CURB FLASHING DETAIL  
 A205 1 1/2" = 1'-0"

PROJECT INFORMATION

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As indicated  
 Project Status  
CONSTRUCTION DOCUMENTS  
 Drawn By  
CPL Checked By  
CPL  
 Drawing Title  
ROOF DETAILS AT NEW ROOF

Drawing Number  
**HMS  
A205**



**PROJECT INFORMATION**

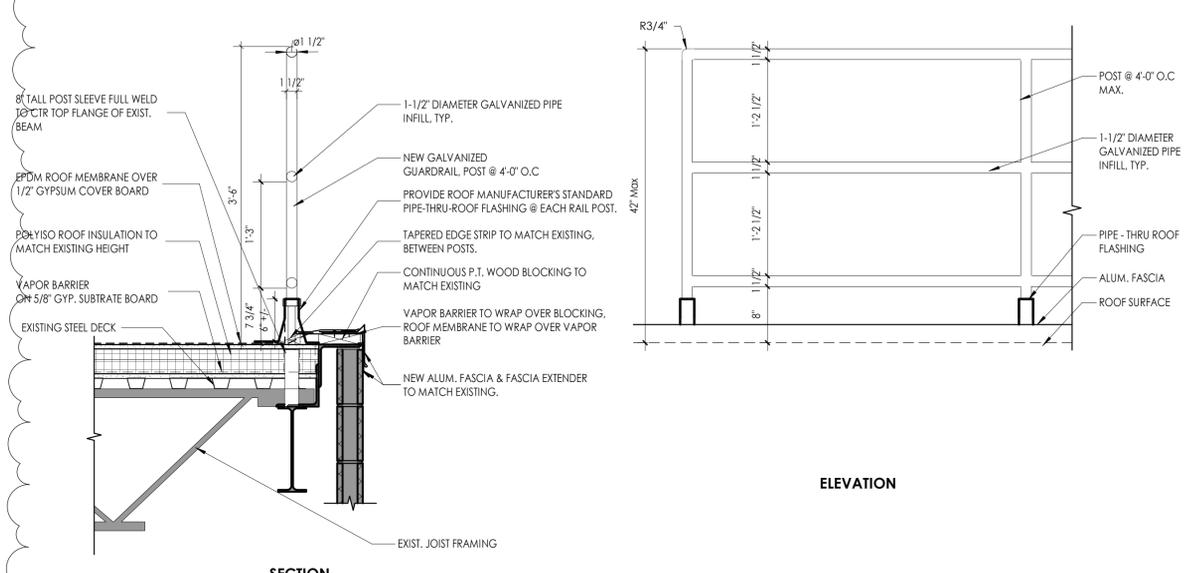
Project Number  
13940.18  
Client Name  
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Project Name  
**PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT**

Project Address  
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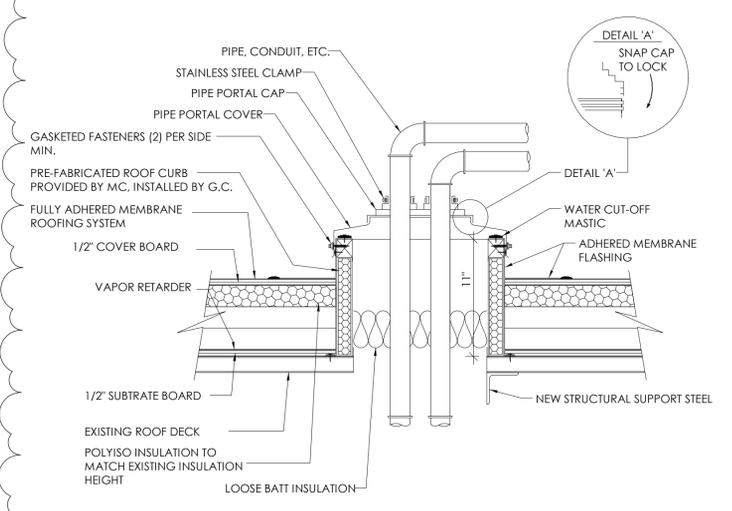
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**PROJECT ISSUE SCHEDULE**

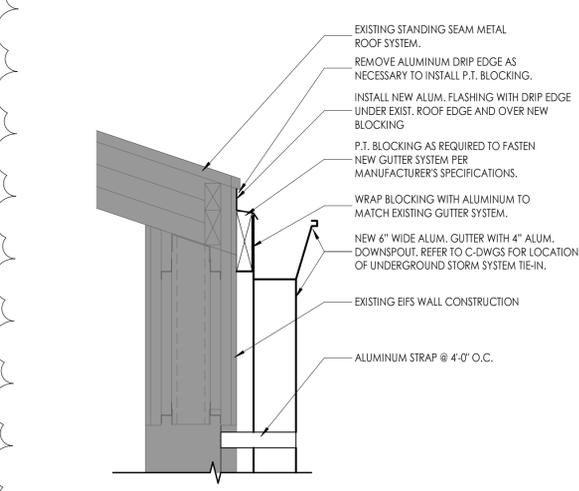
No. Date Description  
1 09/21/21 BID ADDENDA 1



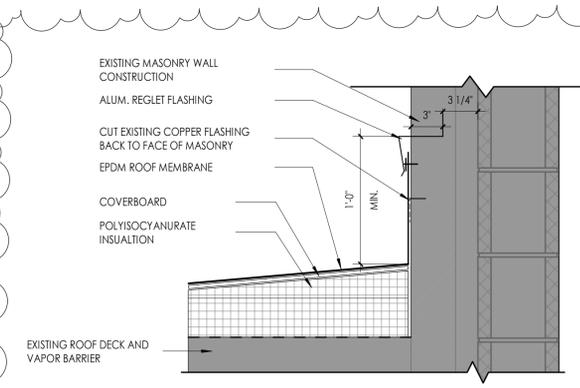
**8 ROOF EDGE RAILING CONNECTION DETAIL-SK**  
A206 1" = 1'-0"



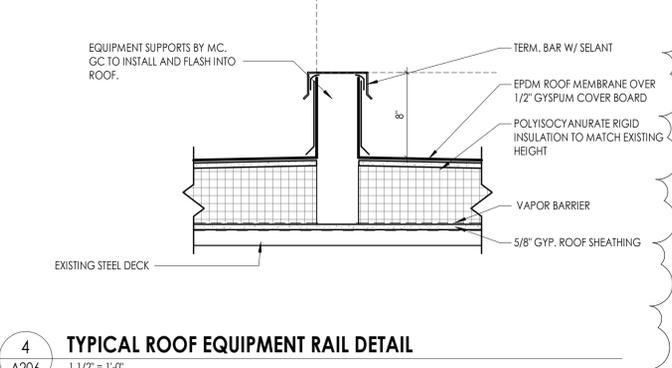
**11 PIPE PORTAL DETAIL**  
A206 1 1/2" = 1'-0"



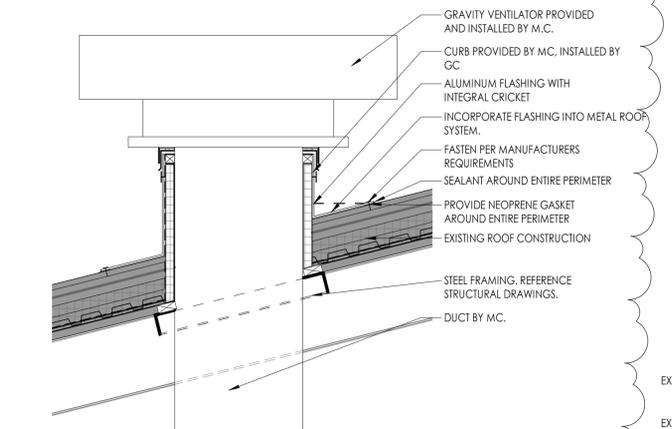
**9 NEW GUTTER DETAIL**  
A206 1 1/2" = 1'-0"



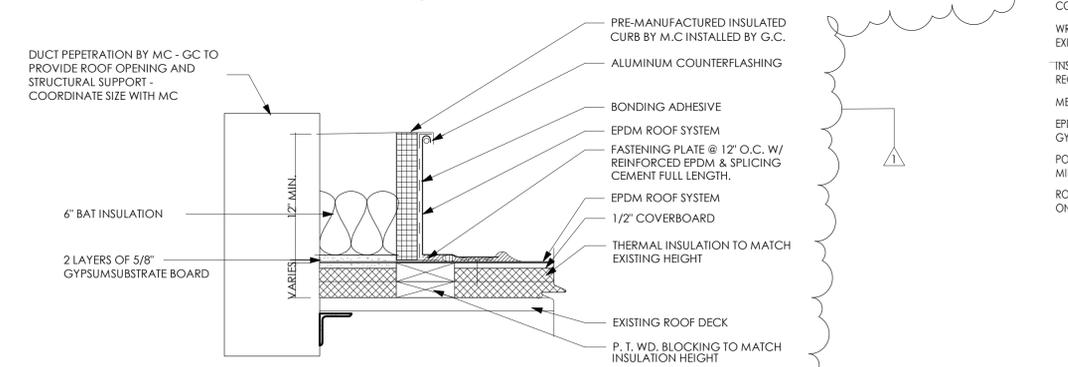
**10 ROOF DETAIL AT EXISTING BUILDING**  
A206 1 1/2" = 1'-0"



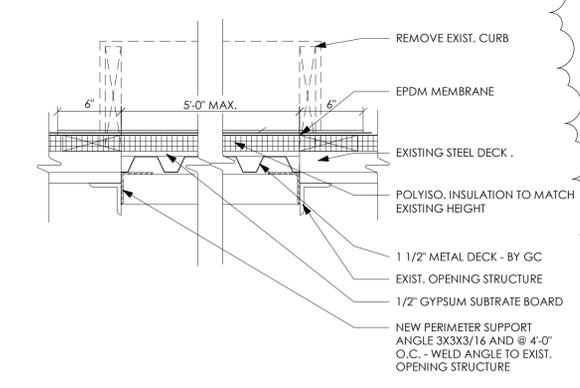
**4 TYPICAL ROOF EQUIPMENT RAIL DETAIL**  
A206 1 1/2" = 1'-0"



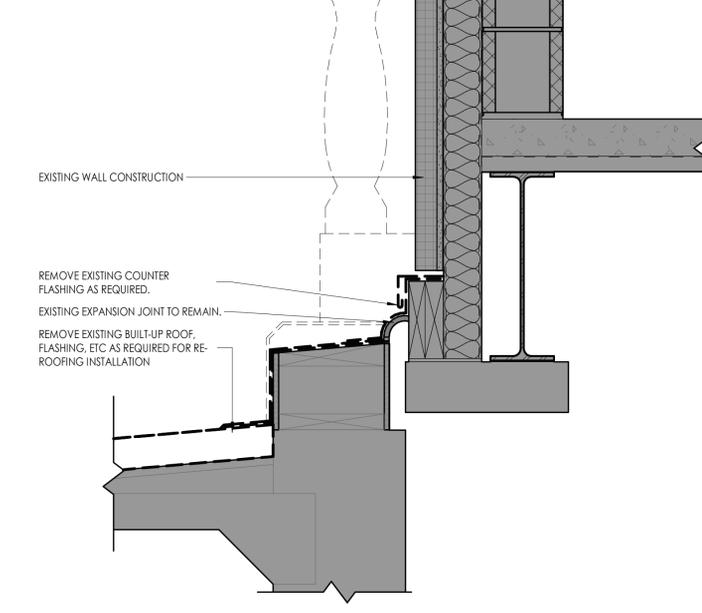
**5 ROOF DETAIL @ EXHAUST FAN**  
A206 3/4" = 1'-0"



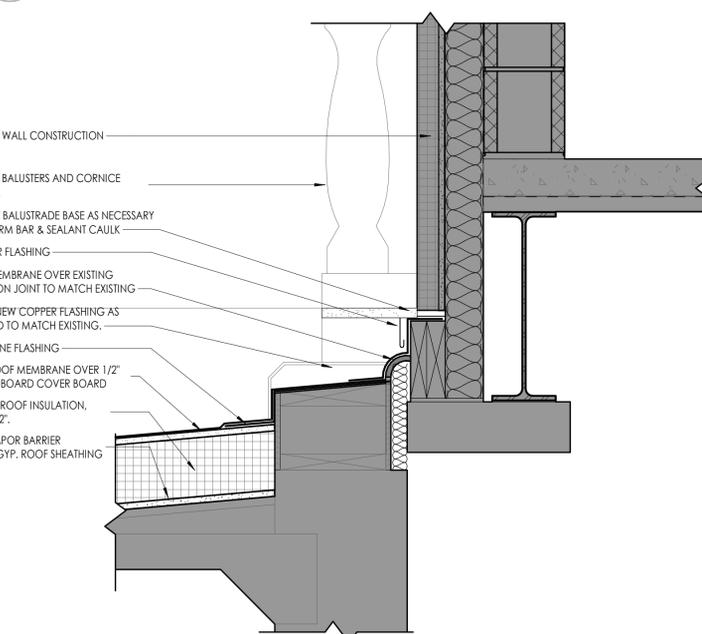
**6 TYPICAL NEW ROOF CURB FLASHING- EXISTING**  
A206 1 1/2" = 1'-0"



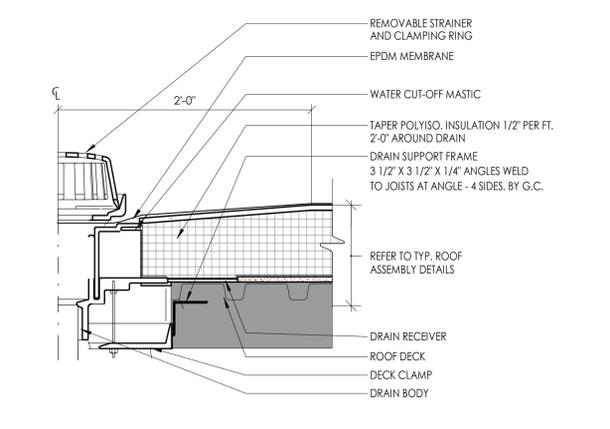
**7 TYPICAL ROOF DECK INFILL DETAIL**  
A206 1 1/2" = 1'-0"



**1 ROOF DETAIL @ EXISTING BUILDING EJ DEMOLITION**  
A206 1 1/2" = 1'-0"



**2 ROOF DETAIL @ EXISTING BUILDING EJ NEW WORK**  
A206 1 1/2" = 1'-0"



**3 TYP. ROOF DRAIN DETAIL**  
A206 1 1/2" = 1'-0"

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**SHEET INFORMATION**

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Author Checked By  
Checker  
Drawing Title  
ROOF DETAILS AT EXISTING ROOF

Drawing Number  
**HMS A206**



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**FLOOR PATTERNING GENERAL NOTES**

1. ALL FLOOR FINISHES SHALL TRANSITION AT THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE (U.N.O.). INSTALL TRANSITION STRIPS PER DETAILS ON 1000.
2. PATCH TO MATCH EXISTING WALL BASE, FLOOR AND CEILING FINISHES IN AREAS AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION.
3. ALL GROUT TO BE SEALED A MINIMUM OF TWO TIMES PRIOR TO COMPLETION.
4. WHERE KICKSPACES OCCUR AT MILLWORK, FLOOR FINISH SHOWN ON PLANS SHALL RUN UNDERNEATH KICKSPACE AS WELL.

**FLOOR PATTERNING KEY NOTES**

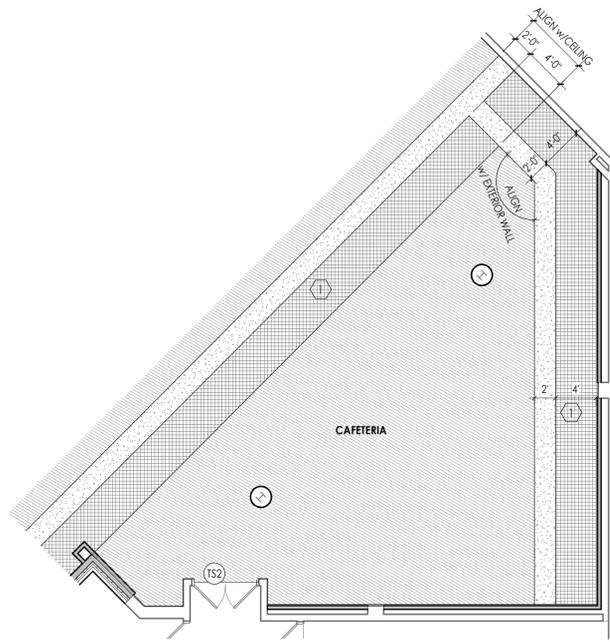
- 1 FLOOR TILE (SVT-1) TO BE ALIGNED WITH CEILING ACCENT (ACT-5) ABOVE.
- 2 EXISTING MILLWORK REMAINS. INSTALL SCHEDULED FLOOR TILE. PROVIDE WALL BASE (RB-2) AT EXISTING MILLWORK.
- 3 VINYL TILE TO CONTINUE UNDER SERVING STATION; G.C. TO VERIFY IN FIELD EXACT LOCATION.
- 4 ALIGN EDGE OF FLOORING WITH EXTERIOR WALL OF ADDITION.
- 5 RUBBER STAIR TREAD & RISER.

**FLOOR PATTERNING LEGEND**

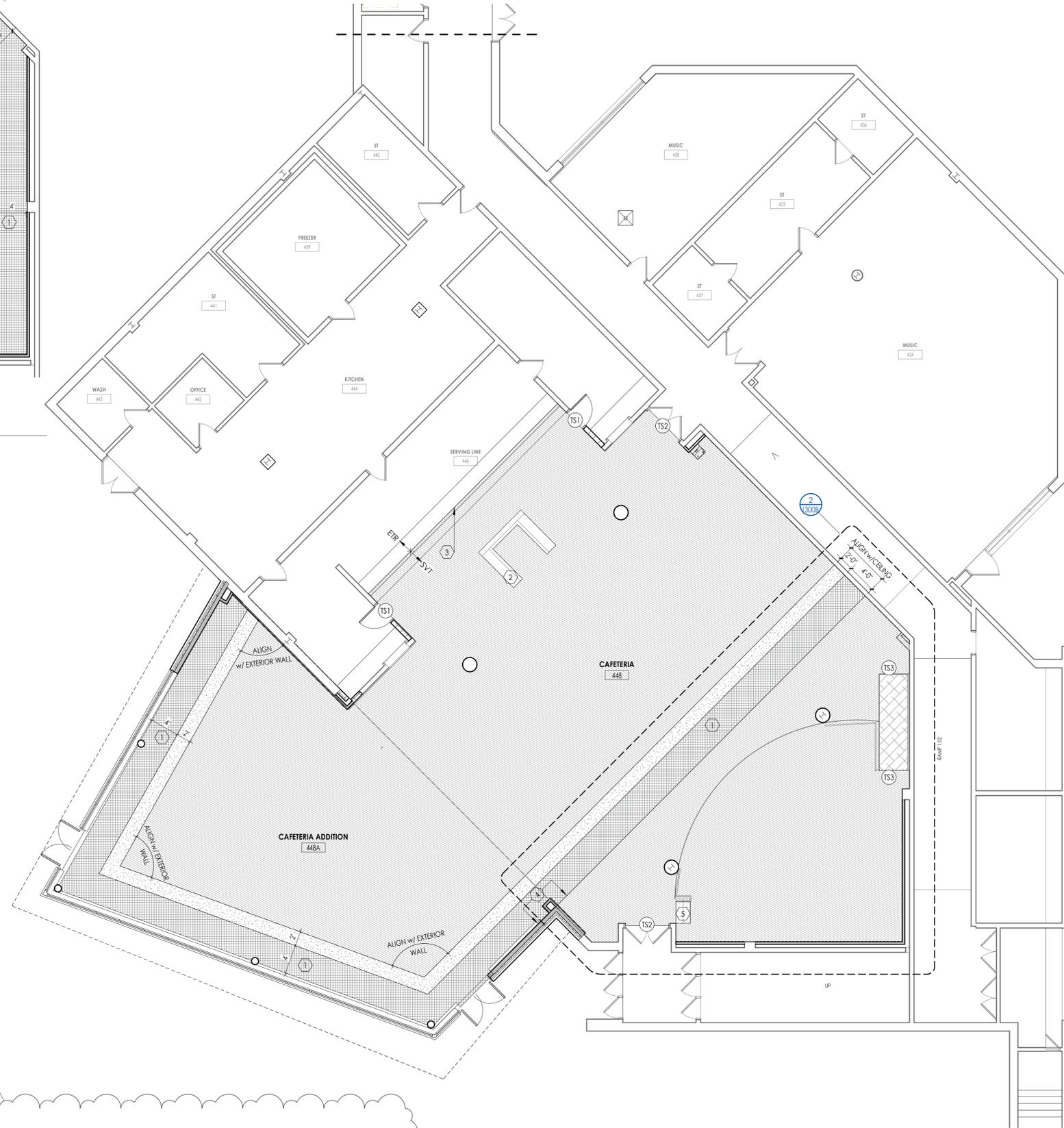
SVT-1/VCT-1	SVT-2/VCT-2	SVT-3/VCT-3
RT-1	XXX — XXX	TSX
INSTALLATION DIRECTION	MATERIAL TRANSITION	TRANSITION STRIP

**PROJECT INFORMATION**

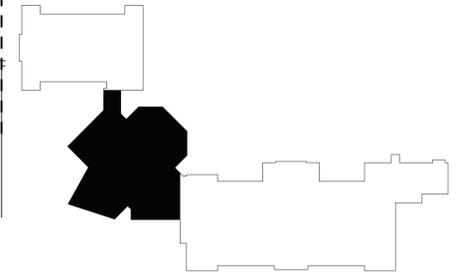
Project Number  
13940.18  
 Client Name  
**NEWBURGH ENLARGED CITY SCHOOL DISTRICT**  
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**PROJECT ISSUE SCHEDULE**  
 No. Date Description  
 1 09/21/21 BID ADDENDA 1



**2 GROUND FLOOR PATTERN PLAN - AREA B ALTERNATE GC-5**  
 1/8" = 1'-0"



**1 GROUND FLOOR PATTERN PLAN - AREA B BASE BID**  
 1/8" = 1'-0"



**KEYPLAN AREA B**  
 NTS

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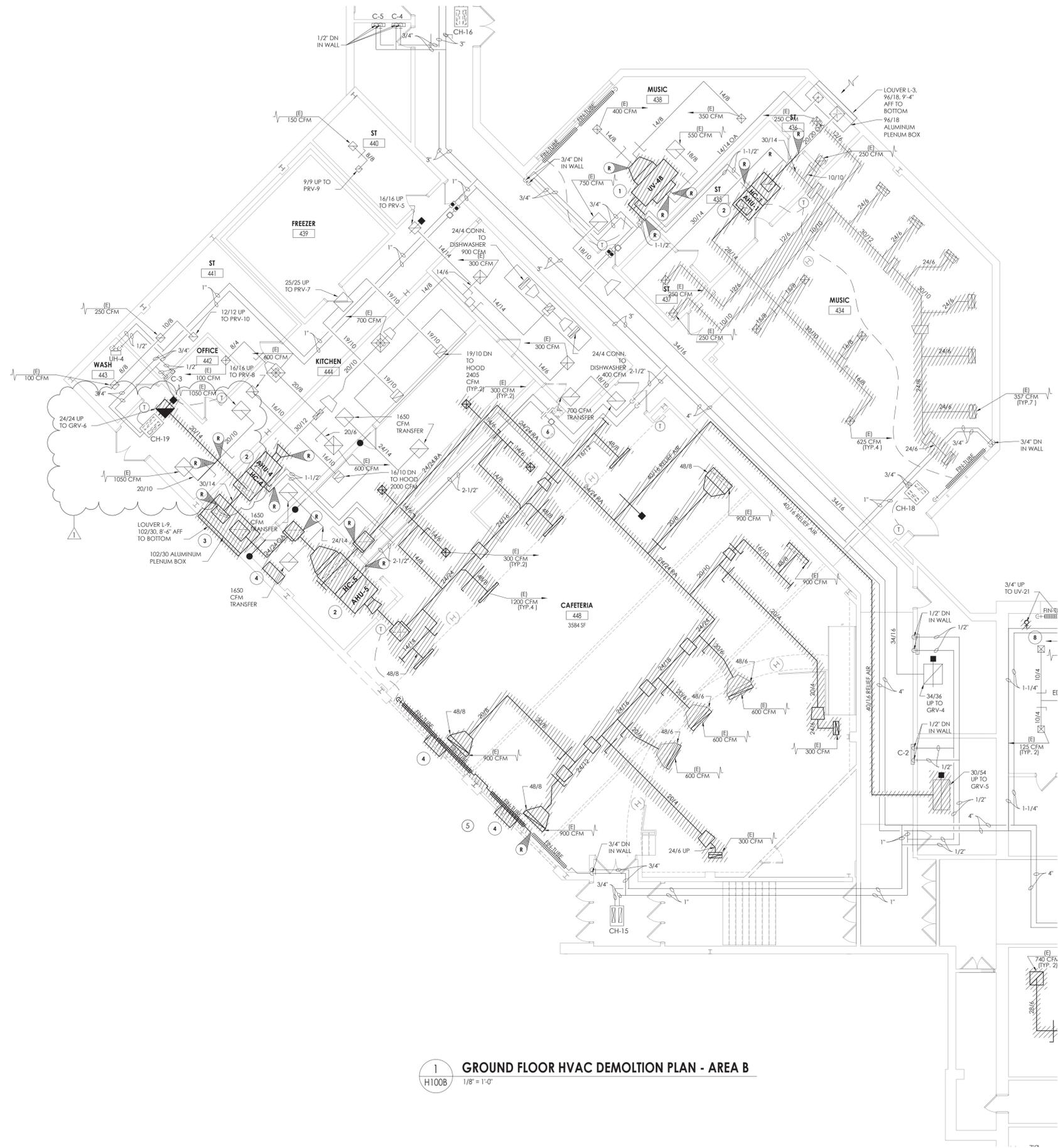
Issued  
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As indicated  
 Project Status  
CONSTRUCTION DOCUMENTS  
 Drawn By  
DS  
 Checked By  
CTV  
 Drawing Title  
GROUND FLOOR AREA B - FLOOR PATTERNING PLAN

Drawing Number  
**HMS 1300B**



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



**1 GROUND FLOOR HVAC DEMOLITION PLAN - AREA B**  
H100B 1/8" = 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  
Project Address: 405 Union Avenue, New Windsor, NY 12553  
SIS Number: 44-16-00-01-0-039-011

**PROJECT ISSUE SCHEDULE**

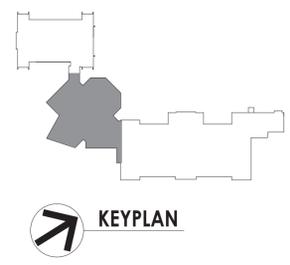
No.	Date	Description
1	9/17/21	BID ADDENDUM #1

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**SHEET INFORMATION**

Issued	Scale
09/09/2021	As indicated

Project Status: CONSTRUCTION DOCUMENTS  
Drawn By: NRH  
Checked By: JJM  
Drawing Title: GROUND FLOOR HVAC DEMOLITION PLAN - AREA B

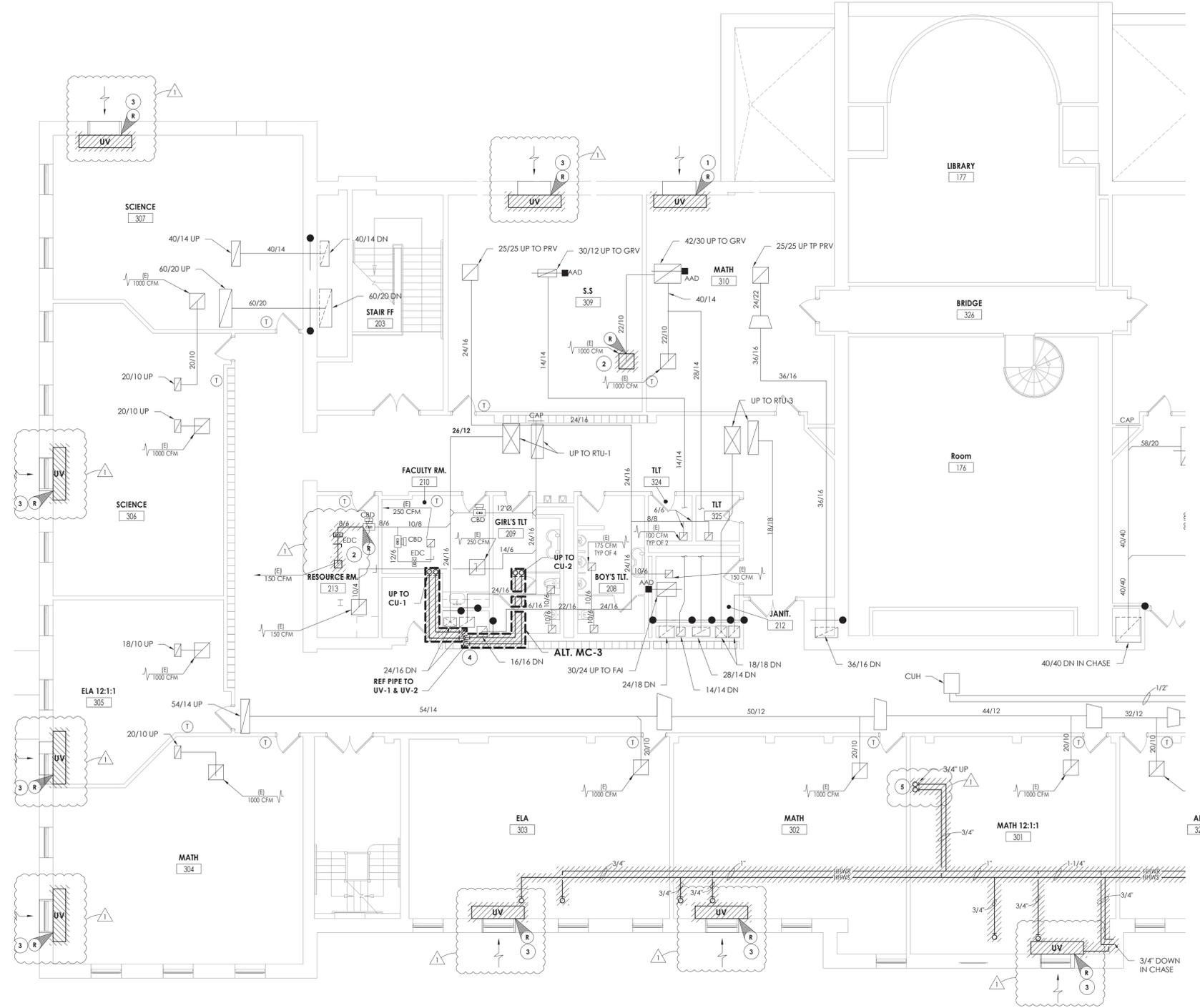


Drawing Number: HMS H100B



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

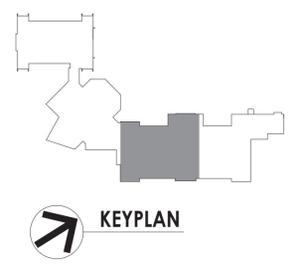


1 SECOND FLOOR HVAC DEMOLITION PLAN - AREA C  
 H102C 1/8" = 1'-0"

**PROJECT INFORMATION**  
 Project Number: 13940.18  
 Client Name: NEWBURGH ENLARGED CITY SCHOOL DISTRICT  
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 1 9/17/21 BID ADDENDUM #1

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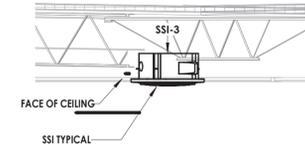
**SHEET INFORMATION**  
 Issued: 09/09/2021 Scale: As indicated  
 Project Status: CONSTRUCTION DOCUMENTS  
 Drawn By: NRH Checked By: JJM  
 Drawing Title: SECOND FLOOR HVAC DEMOLITION PLAN - AREA C  
 Drawing Number: HMS H102C



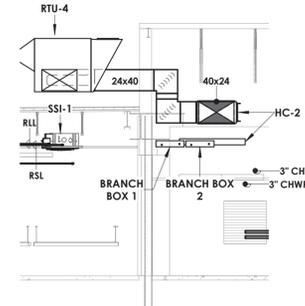


**KEY-NOTES**

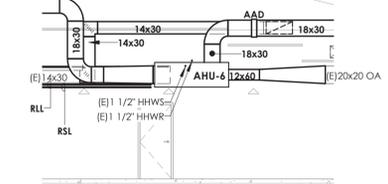
- 1 MOUNT UNIT VENTILATOR ABOVE CEILING. COORDINATE WITH ANY CEILING UTILITIES. MAINTAIN ACCESS FOR FILTER CHANGES. EXTEND EXISTING CONTROLS TO NEW UNIT LOCATION.
- 2 PROVIDE NEW AIR HANDLING UNIT ABOVE CEILING. PROVIDE VIBRATION ISOLATION. CONNECT DUCTWORK TO POINTS INDICATED. COORDINATE UNIT SERVICE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



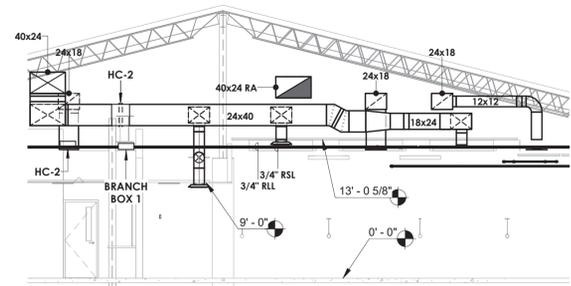
**2 TYPICAL MOUNTING SSI SECTION**  
H200B 1/4" = 1'-0"



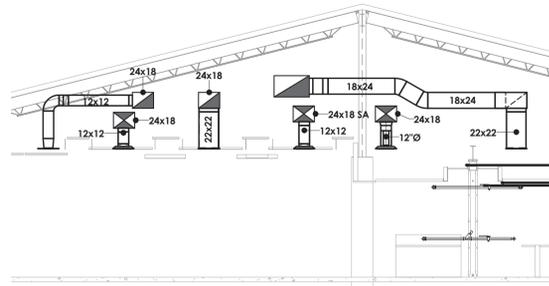
**3 CAFETERIA RTU-4 SECTION**  
H200B 1/8" = 1'-0"



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



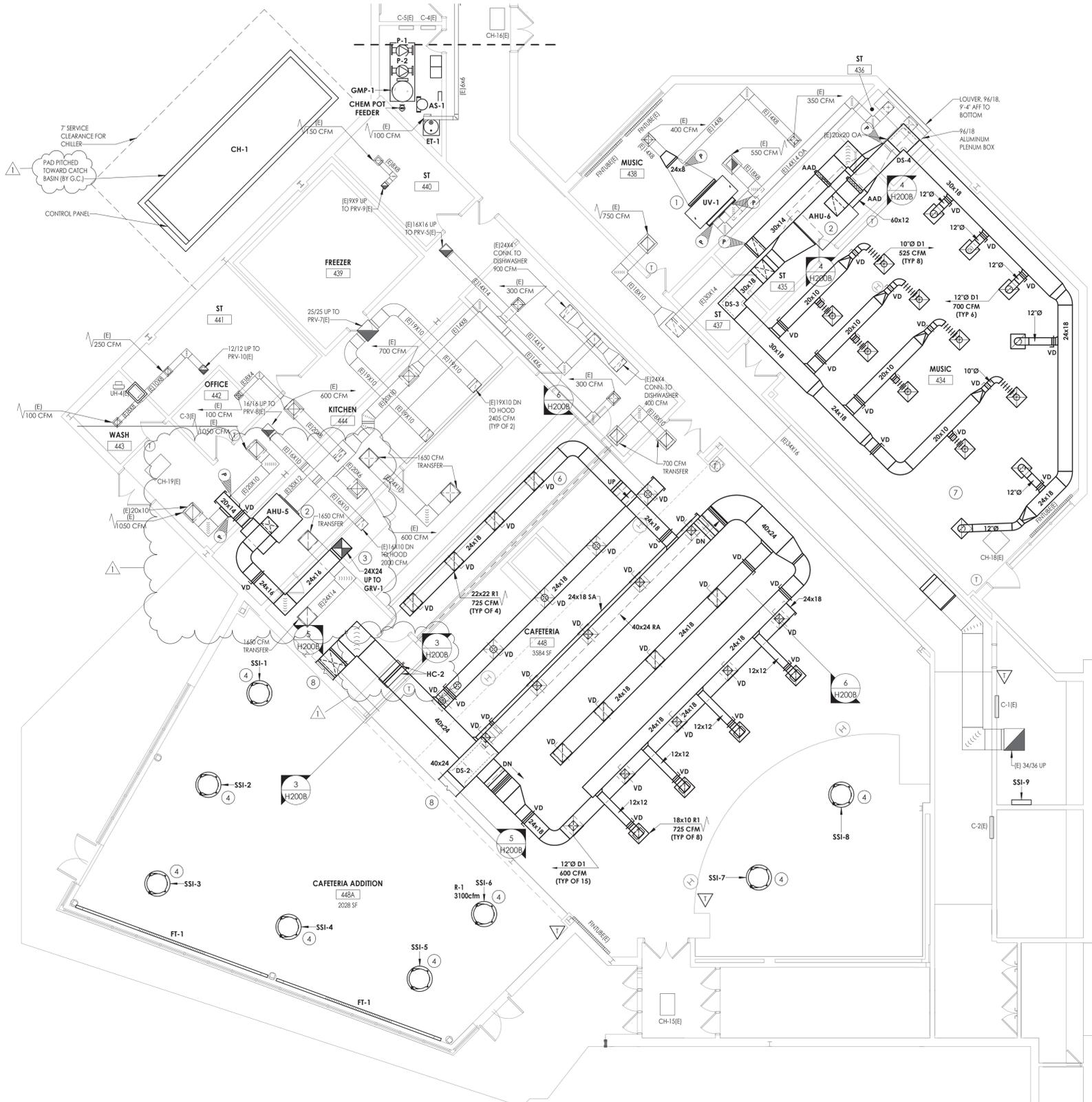
**5 CAFETERIA DUCTWORK ELEVATION**  
H200B 1/8" = 1'-0"



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



**KEYPLAN**



SEE H902 FOR AIR BALANCE

**1 GROUND FLOOR HVAC DUCTWORK - AREA B**  
H200B 1/8" = 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  
Project Address: 405 Union Avenue, New Windsor, NY 12553  
SIS Number: 44-16-00-01-0-039-011  
**PROJECT ISSUE SCHEDULE**  
No. 1 Date 9/17/21 Description BID ADDENDUM #1

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

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

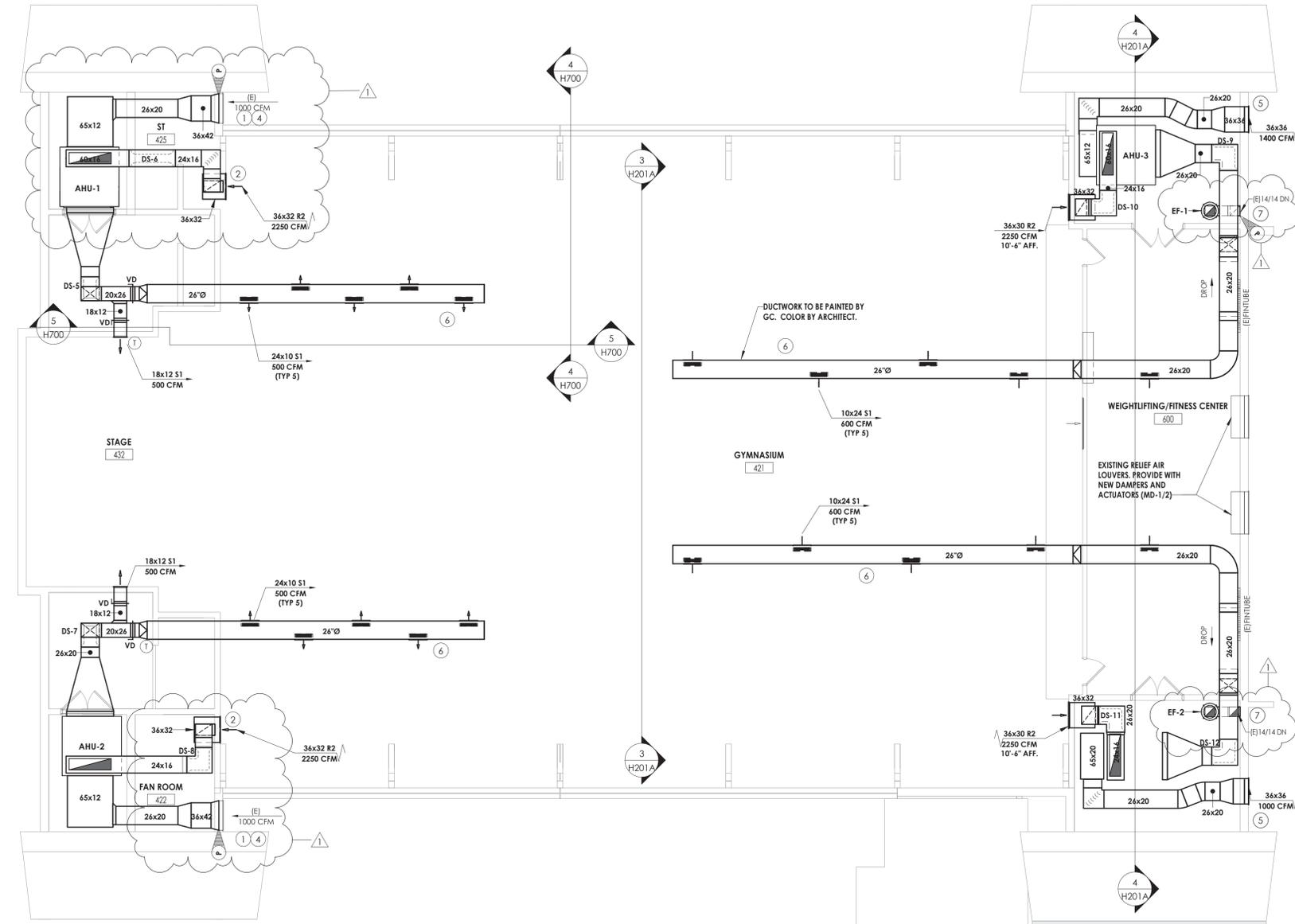


**KEY NOTES**

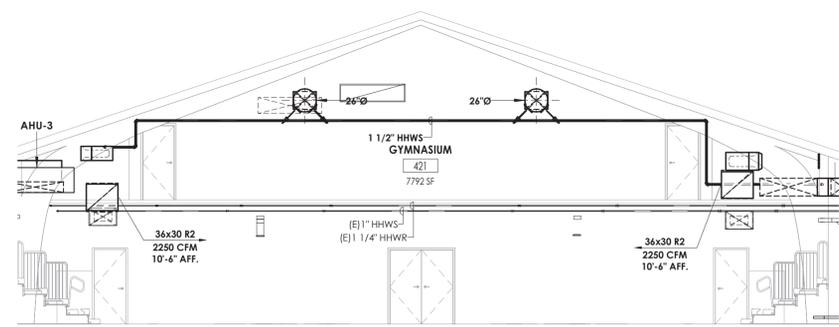
- 1 MOUNT AIR HANDLING UNIT 12" ABOVE FINISHED FLOOR. MAINTAIN EQUIPMENT ACCESS REQUIREMENTS, EXTEND EXISTING CONTROLS TO NEW UNIT.
- 2 RE-USE EXISTING OPENING IN WALLS. PROVIDE GRILLE.
- 3 PROVIDE NEW RETURN AIR LOUVER. COLOR BY ARCHITECT.
- 4 REUSE EXISTING 36"X42" SUPPLY AIR LOUVER.
- 5 PROVIDE NEW OUTDOOR AIR LOUVER. PROVIDE WITH BIRDSCREEN AND DRAINABLE BLADES.
- 6 HANG DUCTWORK WITH CABLE.
- 7 CONNECT NEW FAN TO EF WITH 14"X14" DUCTWORK.

**PROJECT INFORMATION**

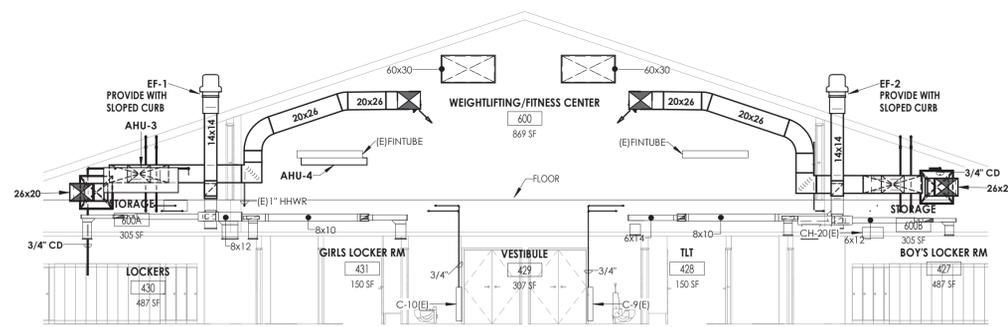
Project Number  
13940.18  
Client Name  
**NEWBURGH ENLARGED CITY SCHOOL DISTRICT**  
Project Name  
**PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT**  
Project Address  
405 Union Avenue, New Windsor, NY 12553  
SID Number  
44-16-00-0-039-011  
**PROJECT ISSUE SCHEDULE**  
No. Date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



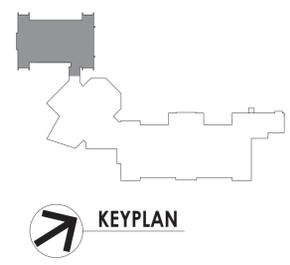
1 FIRST FLOOR HVAC DUCTWORK PLAN - AREA A  
H201A 1/8" = 1'-0"



3 GYMNASIUM ELEVATIONS  
H201A 1/8" = 1'-0"



4 LOCKER AND WEIGHTLIFTING SECTION  
H201A 1/8" = 1'-0"



KEYPLAN

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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



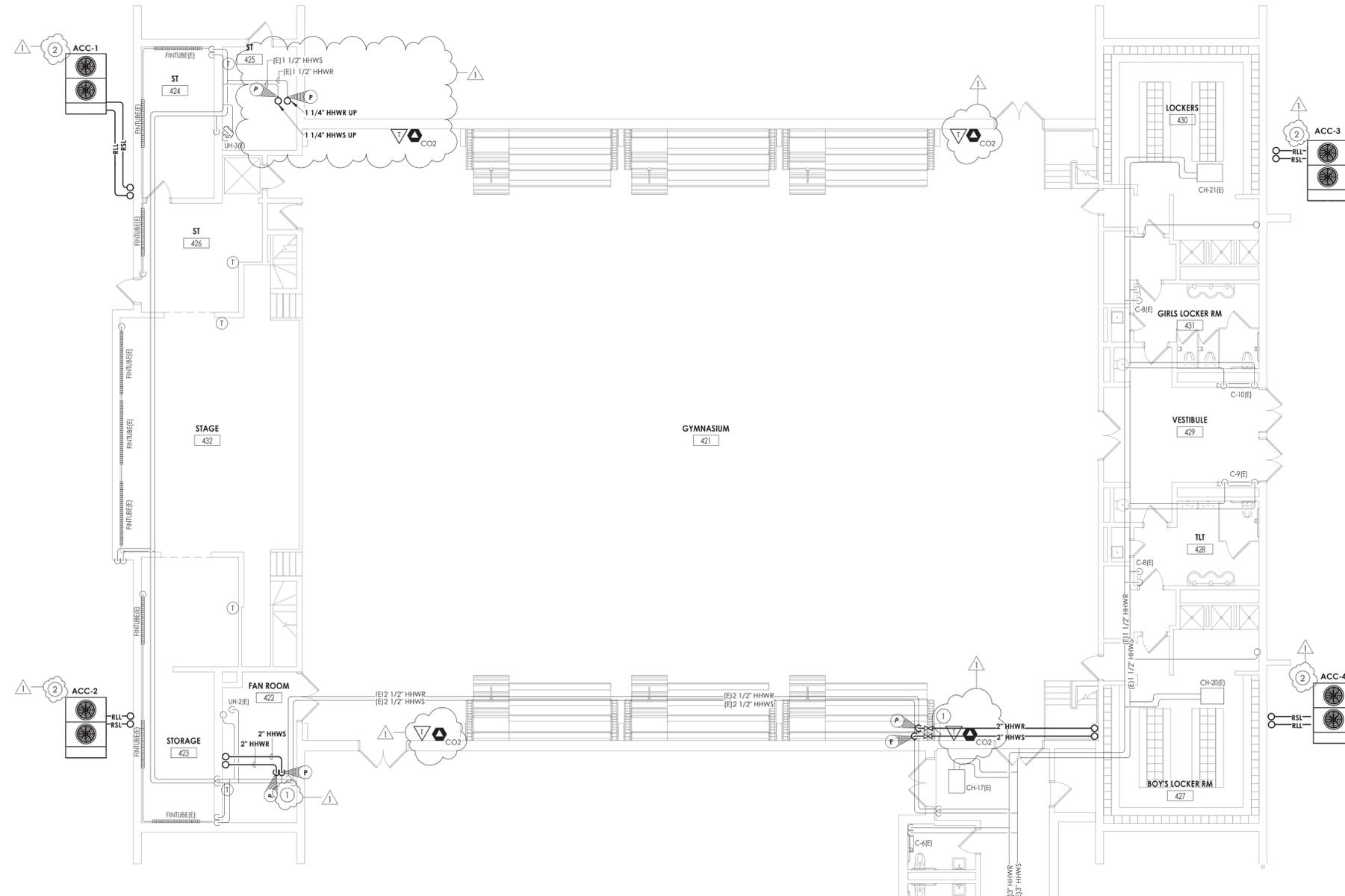
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50 FRONT ST. SUITE 202  
NEWBURGH, NY 12550  
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**GENERAL NOTES**

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



**1** GROUND FLOOR HVAC PIPING PLAN - AREA A  
H300A 1/8" = 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**  
Project Address  
405 Union Avenue, New Windsor, NY 12553  
SID Number  
44-16-00-01-0-039-011

**PROJECT ISSUE SCHEDULE**

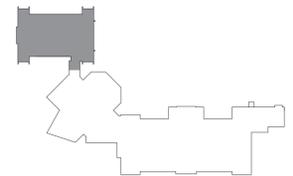
No.	Date	Description
1	9/17/21	BID ADDENDUM #1

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

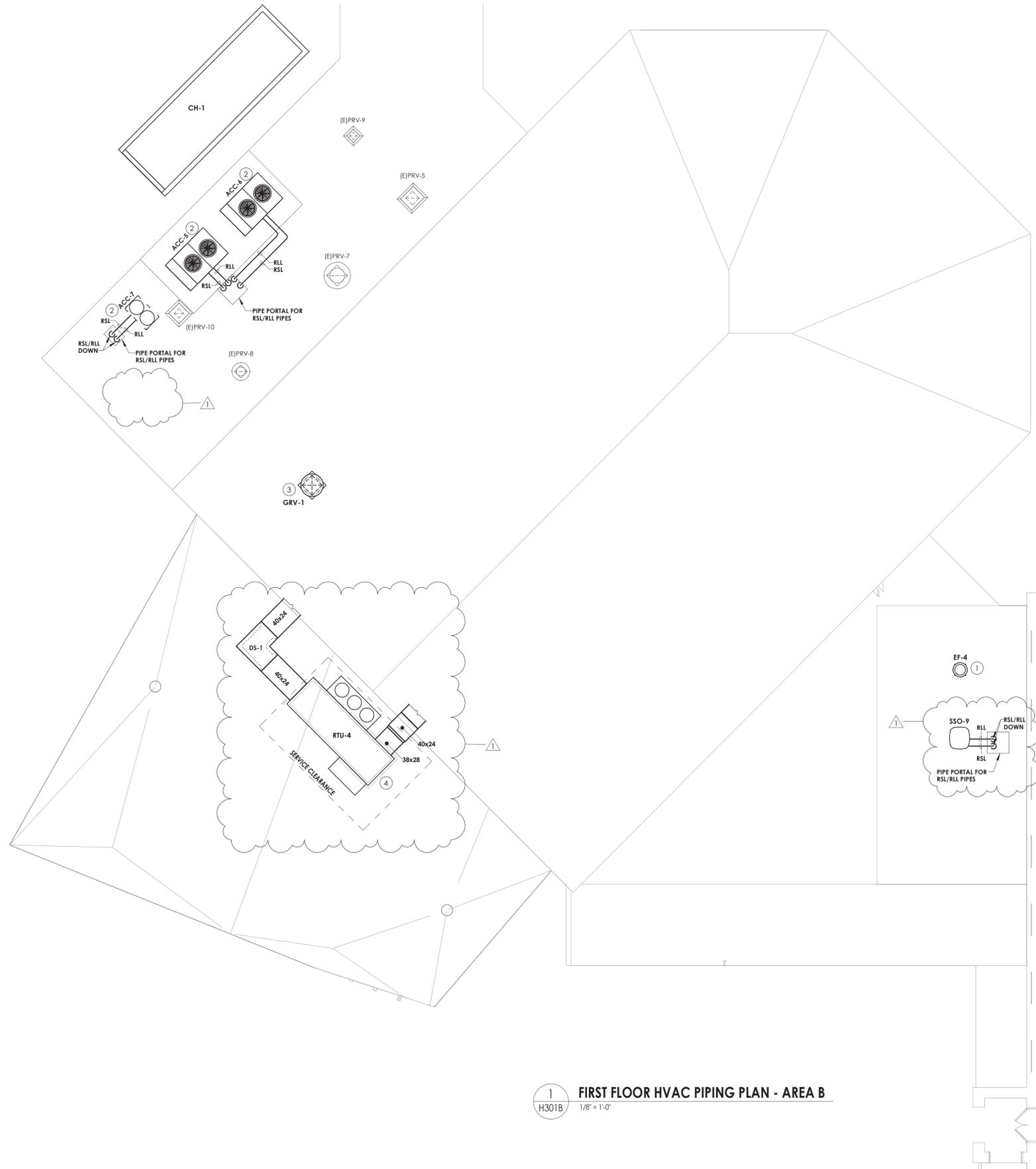
Drawing Number  
HMS  
H300A



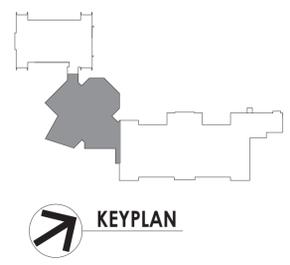


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- GENERAL NOTES**
1. ALL COOLING EQUIPMENT ABOVE THE CEILING SHALL HAVE SECONDARY DRAIN PANS WITH FLOAT OVERFLOW ALARM CONNECTED TO THE BMS.
  2. EXTEND ALL EXISTING CONTROL WIRING TO NEW UNITS. COORDINATE WITH JOHNSON CONTROLS SYSTEMS. SENSORS BY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



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



**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

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

**PROJECT ISSUE SCHEDULE**

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

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**SHEET INFORMATION**

Issued  
 09/09/2021

Scale  
 As indicated

Project Status  
**CONSTRUCTION DOCUMENTS**

Drawn By  
 NRH

Checked By  
 JJM

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

Drawing Number  
**HMS H301B**



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**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**

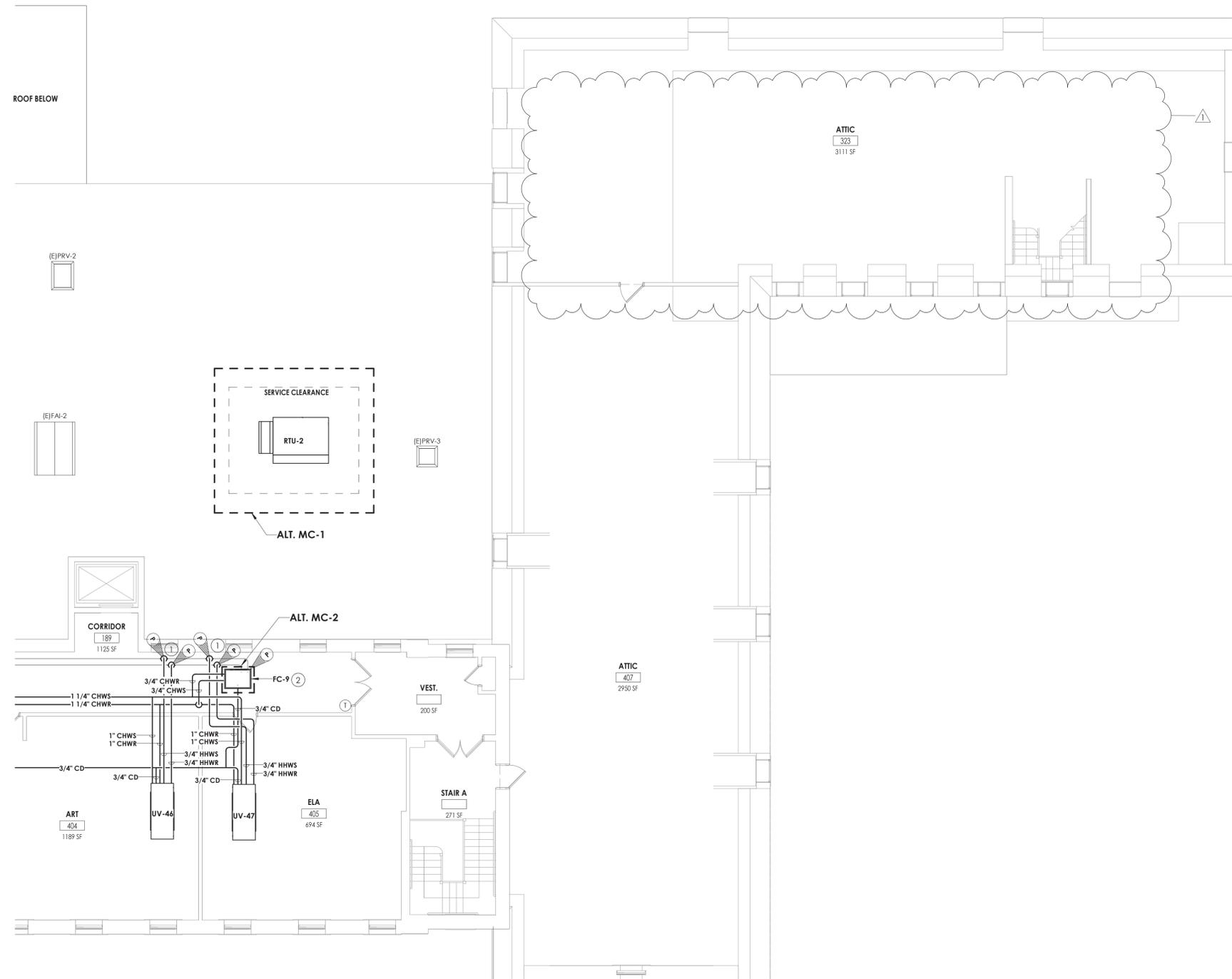
- ① CONNECT NEW PIPING TO EXISTING PIPING AT POINTS INDICATED. RE-INSULATE ANY EXISTING PIPING AT CONNECTED LOCATIONS.
- ② CONNECT TO EXISTING TEMPERATURE CONTROLS.

**PROJECT INFORMATION**

Project Number  
13940.18  
 Client Name  
**NEWBURGH ENLARGED CITY SCHOOL DISTRICT**  
 Project Name  
**PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT**  
 Project Address  
405 Union Avenue, New Windsor, NY 12553  
 SED Number  
44-16-00-01-0-039-011

**PROJECT ISSUE SCHEDULE**

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

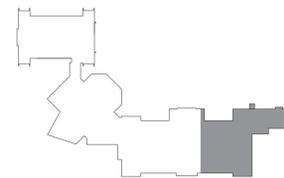


**1 THIRD FLOOR HVAC PIPING PLAN - AREA D**  
 H303D 1/8" = 1'-0"

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

**SHEET INFORMATION**

Issued  
09/09/2021  
 Scale  
As indicated  
 Project Status  
CONSTRUCTION DOCUMENTS  
 Drawn By  
NRH  
 Checked By  
JJM  
 Drawing Title  
THIRD FLOOR HVAC PIPING PLAN - AREA D  
 Drawing Number  
HMS H303D





ROOF TOP ENERGY RECOVERY UNIT table with columns: 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.

AIR SEPARATOR SCHEDULE table with columns: MARK, LOCATION, SERVED, GPM, WEIGHT (LBS), DIA. (IN.), LNG. (IN.), STRAINER SQ. IN. FA, TYPICAL UNIT MFG & MODEL NO., REMARKS.

AIR HANDLING UNIT SCHEDULE table with columns: 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.

PUMP SCHEDULE table with columns: MARK, LOCATION, SERVICE, GPM, HD (FT.), HP, ELECTRICAL DATA, TYPICAL UNIT MFG & MODEL NO., REMARKS.

VRF FAN COIL UNITS table with columns: 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.

HOT WATER COIL SCHEDULE table with columns: MARK, SERVICE, AIR DATA, WATER DATA, MFG SIZE HXL (IN.), ROWS, TYPICAL UNIT MFG & MODEL NO., REMARKS.

REGISTERS, GRILLES, AND DIFFUSERS table with columns: MARK, APPLICATION, MATERIAL, TYPE, FINISH, DESIGN EQUIP., REMARKS.

FAN SCHEDULE table with columns: MARK, LOCATION, SERVICE, TYPE, CFM, SP IN W.G., RPM, HP, ELECTRICAL DATA, TYPICAL UNIT MFG & MODEL NO., REMARKS.

EXPANSION TANK SCHEDULE table with columns: MARK, LOCATION, SERVED, ACCEPT. GAL., DIA. (IN.), HEIGHT (IN.), WEIGHT FULL (LBS.), TYPICAL UNIT MFG & MODEL NO., REMARKS.

FIN TUBE SCHEDULE table with columns: MARK, BTU/FT., GPM, TUBE SIZE (IN.), FINS / FT., EWT (°F), EAT (°F), ENCLOSURE, TYPICAL UNIT MFG & MODEL NO., REMARKS.

CHILLER SCHEDULE table with columns: MARK, NOMINAL CAPACITY (TONS), % PROP GLYCOL, FLOW (GPM), DELTA P (FT), IPLV, EWT (°F), LWT (°F), REFRIGERANT, ELECTRICAL DATA, WEIGHT (LBS), TYPICAL UNIT MFG & MODEL NO., REMARKS.

FAN COIL UNIT SCHEDULE table with columns: MARK, TYPE, LOCATION, MAX CFM, COOLING, HEATING, ELECTRICAL DATA, TYPICAL UNIT MFG & MODEL NO., REMARKS.

AIR COOLED CONDENSER UNIT SCHEDULE table with columns: MARK, LOCATION, SERVES, NOMINAL TONS, ELECTRICAL DATA, OPERATING WEIGHT (LBS.), TYPICAL UNIT MFG & MODEL NO., REMARKS.

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  
SIS Number: 44-16-00-01-0-039-011  
PROJECT ISSUE SCHEDULE  
No. Date Description  
1 9/17/21 BID ADDENDUM #1

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SHEET INFORMATION  
Scale: 1" = 1'-0"  
Project Status: CONSTRUCTION DOCUMENTS  
Checked By: JJM  
Drawing Title: HVAC SCHEDULES

Drawing Number: HMS H900



**PROJECT INFORMATION**

Project Number  
13940.18  
Client Name  
NEWBURGH ENLARGED CITY  
SCHOOL DISTRICT

**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
1	9/17/21	BID ADDENDUM #1

MARK	ROOM SERVES	OA FAN	EA FAN	UNIT TYPE	CFM	EXT. SP.	UNIT VENTILATOR SCHEDULE																TYPICAL UNIT MFG & MODEL NO.	REMARKS:
							ELECTRICAL		WINTER				HW COIL CAPACITY				CW COIL CAPACITY							
							MCA	VOLT/Ø	OA °F	RA °F	EWI °F	EAT °F	LAT °F	MBH	GPM	EWI °F	EAT °F	LAT °F	MBH	GPM				
UV-1	438	-	-	HORIZONTAL	1500	0.625	5	120/1	600	5	72	180	45.2	95	81049.5	4.2	45	79.8	56	38734.5	6.7	MAGICAIRE MAUH	1.2,4,5,6	
UV-2	105	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	550	5	72	180	35.2	95	64937.3	3.3	45	81.6	56	27776.0	4.8	MAGICAIRE MAUH	1.2,4,5,6	
UV-3	105A	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	450	5	72	180	41.9	95	57667.8	3.0	45	80.4	56	26474.0	4.5	MAGICAIRE MAUH	1.2,4,5,6	
UV-4	106	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	475	5	72	180	40.2	95	59485.1	3.1	45	80.7	56	26799.5	4.6	MAGICAIRE MAUH	1.2,4,5,6	
UV-5	104	(E)IGRV-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)IGRV-2	EF-5	HORIZONTAL	1000	0.625	5	120/1	525	5	72	180	36.8	95	63119.9	3.3	45	81.3	56	27450.5	4.7	MAGICAIRE MAUH	1.2,4,5,6,8	
UV-7	114	SF-3	RF-4	HORIZONTAL	1500	0.625	5.9	120/1	675	5	72	180	41.9	95	86501.6	4.5	45	80.4	56	39711.0	6.8	MAGICAIRE MAUH	1.2,4,5,6,8	
UV-8	113A	SF-3	RF-1	HORIZONTAL	1000	0.625	5	120/1	550	5	72	180	35.2	95	64937.3	3.3	45	81.6	56	27776.0	4.8	MAGICAIRE MAUH	1.2,4,5,6	
UV-9	113B	SF-3	RF-1	HORIZONTAL	1000	0.625	5	120/1	550	5	72	180	35.2	95	64937.3	3.3	45	81.6	56	27776.0	5.7	MAGICAIRE MAUH	1.2,4,5,6	
UV-10	112	SF-3	RF-1	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1.2,4,5,6	
UV-11	109	SF-3	RF-1	HORIZONTAL	1000	0.625	5	120/1	470	5	72	180	40.5	95	59121.7	3.0	45	80.6	56	26734.4	5.5	MAGICAIRE MAUH	1.2,4,5,6	
UV-12	110	SF-3	RF-2	HORIZONTAL	1250	0.625	5.9	120/1	525	5	72	180	43.9	95	69588.6	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	69588.6	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	69588.6	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	39040.0	8.1	MAGICAIRE MAUH	1.2,4,5,6	
UV-46	404	SF-1	RF-10	HORIZONTAL	1500	0.625	5.9	120/1	575	5	72	180	46.3	95	79232.1	4.1	45	79.6	56	38409.0	7.9	MAGICAIRE MAUH	1.2,4,5,6	
UV-47	403	SF-1	RF-11	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1.2,4,5,6	
UV-48	401	SF-6	RF-12	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1.2,4,5,6	

**REMARKS:**  
1. FACTORY MOUNTED AND WIRED DISCONNECT. ALL UNIT CONTROL ACTUATORS FROM EXISTING RELOCATED BY OTHERS TO NEW UNIT.  
2. CONDENSATE PUMP LITTLE GIANT VCC-206, BRAIN 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													REMARKS:
MARK	MANUFACTURER	MODEL	SERVICE	DESIGN AIRFLOW	FAN BLOWER			SHAKER MOTOR					
					ESP. (IN. WG)	RPM	HP	ENCL.	V/PH/Hz	RPM	HP	ENCL.	V/PH/Hz
DC-1	STERNVENT	DKPD 36007-2	TECH 08	2250 CFM	8	3450	7.5	TEFC	208/3/60	1150	1/3	TEFC	208/3/60

**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.

MARK	LOCATION	NOM. TONS	SUPPLY FAN				DX COOLING				ELECTRICAL		TYPICAL UNIT MFG & MODEL NO.	REMARKS:		
			CFM	OA CFM	ESP (IN. W.C.)	BHP / HP	TOTAL MBH	SENS MBH	EAT °F		AMB °F	VOLT/Ø			MCA	
									DB	WB	LAT °F					
RTU-1	3RD FLOOR ROOF	12	4400	1100	1.2	3.8/5	127	109	79.25	65.3	58.04	75	208/3	61	AAON RN010-8-0-EB09	1.2,3,4
RTU-2	3RD FLOOR ROOF	12	4400	1100	1.2	3.8/5	127	109								



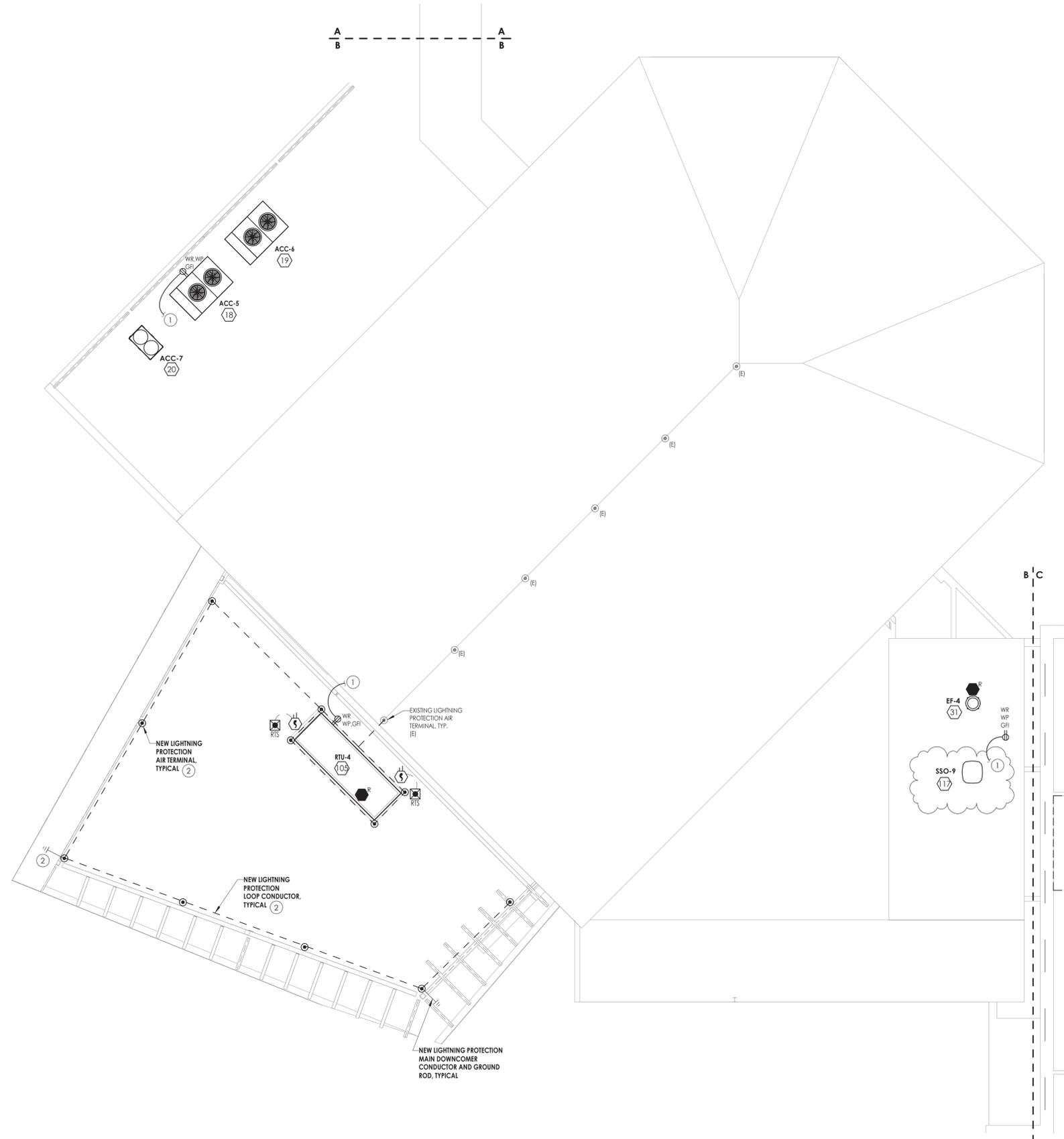
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**GENERAL NOTES:**

- A. FIXTURES, DEVICES, AND EQUIPMENT LABELED AS "EJ" ARE EXISTING AND ARE SHOWN FOR REFERENCE ONLY. ALL OF THESE DEVICES SHALL REMAIN OPERATIONAL FOLLOWING CONSTRUCTION.
- B. EQUIPMENT DESIGNATED WITH A NUMBER INSIDE OF A HEXAGON ARE SCHEDULED ON DRAWING E900. REFER TO EQUIPMENT WIRING SCHEDULE FOR BREAKER AND CIRCUITING INFORMATION.
- C. DISCONNECT SWITCHES AND STARTER DEVICES ASSOCIATED WITH HVAC EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR, AND WIRED BY THE ELECTRICAL CONTRACTOR. INCLUDE AN ADDITIONAL 10' OF CIRCUITING IN PRICING FOR INSTANCES WHERE A DISCONNECT MAY NOT BE MOUNTED DIRECTLY ON UNIT. E.C. IS RESPONSIBLE TO WIRE BOTH LINE AND LOAD SIDES OF DISCONNECT.
- D. UPDATE PANELBOARD DIRECTORIES TO REFLECT CHANGES MADE TO CIRCUITS WITH LOAD(S) AND ROOM(S) SERVED. LABEL ANY UNUSED BREAKER AS SPARE AND TURN TO OFF POSITION.
- E. FIRE ALARM SCOPE OF THIS PROJECT INCLUDES INSTALLING A NEW SIMPLEX 4100ES PANEL TO SERVE NEW AND RENOVATED AREAS WHILE MAINTAINING EXISTING SIMPLEX 4020 PANEL. ALL EXISTING DEVICES REMOVED IN THE DEMOLITION PHASE OF THE PROJECT SHALL BE REMOVED FROM THE SYSTEM PROGRAMMING OF THE 4020 PANEL. NEW INITIATION AND NOTIFICATION DEVICES SHOWN SHALL BE CONNECTED TO AND COMPATIBLE WITH THE NEW SIMPLEX 4100ES FIRE ALARM CONTROL PANEL LOCATED IN CUSTODIAN ROOM. SO. PROVIDE NEW NOTIFICATION APPLIANCE CIRCUIT PANELS (WITH SMOKE DETECTOR WITHIN 5') WITH BATTERIES WHERE REQUIRED TO ACCOMMODATE NEW NOTIFICATION DEVICES. LOCATE SAID NAC PANEL IN A STORAGE OR ELEC/MECH ROOM, AND WIRE TO NEAREST AVAILABLE PANELBOARD WITH (2) #12, #12 GND. IN 3/4" CONDUIT. FOR PRICING PURPOSES, ASSUME 150' PER CIRCUIT. PROVIDE 20/1 CIRCUIT BREAKER AS REQUIRED.
- F. FIRE ALARM SPACING SHALL COMPLY WITH NFPA 72 REQUIREMENTS. ALL FIRE ALARM INITIATION DEVICES SHOWN SHALL NOT BE LOCATED IN DIRECT AIRFLOW PATH OR CLOSER THAN 3' OF AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING.
- G. THE OPERABLE PART OF PULL STATIONS SHALL BE MOUNTED MORE THAN 3'-6" BUT LESS THAN 4'-0" ABOVE FINISHED FLOOR.
- H. FOR PUBLIC MODE, WALL MOUNTED VISUALS AND AUDIBLE/VISUALS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR.
- I. THE MINIMUM REQUIRED CANDELA LEVEL IS INDICATED ADJACENT TO NEW VISUAL DEVICES. IF NOT INDICATED, MINIMUM ALLOWABLE SETTING IS 15 CANDELA.
- J. ACTIVATION OF BUILDING FIRE ALARM SYSTEM SHALL AUTOMATICALLY SHUT DOWN ALL FANS ASSOCIATED WITH HVAC UNITS IN THE BUILDING AS REQUIRED BY LOCAL, STATE, AND NATIONAL CODES. PROVIDE FIRE ALARM SHUT DOWN RELAYS IN EACH UNIT.
- K. FINAL TESTING OF FIRE ALARM SYSTEM SHALL COMPLY WITH ALL NFPA 72 REQUIREMENTS. ANY ALTERED CIRCUIT(S) SHALL HAVE ALL FIRE ALARM INITIATION DEVICES TESTED IN THEIR ENTIRETY AND 10% OF NEIGHBORING ZONE/LOOP DEVICES.
- L. PROVIDE 8" ROUND, FLUSH MOUNTED, WHITE CEILING SPEAKERS WHERE SHOWN. NEW SPEAKERS SHALL BE CONNECTED TO AND COMPATIBLE WITH EXISTING BUILDING PUBLIC ADDRESS SYSTEM. EXPAND EXISTING SYSTEM WITH ADDITIONAL AMPLIFIERS AS REQUIRED AT HEAD END LOCATION FOR A COMPLETE OPERATIONAL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH OWNER.
- M. ALL CABLING ABOVE ACCESSIBLE CEILINGS SHALL BE SUPPORTED VIA J-HOOK. J-HOOKS SHALL NOT EXCEED 5'-0" SPACING. ALL CABLING ABOVE INACCESSIBLE SPACES AND CEILINGS OPEN TO STRUCTURE SHALL BE IN CONDUIT.
- N. ALL EXPOSED RACEWAY SHALL BE PAINTED TO MATCH CEILING/WALL FINISH. CONTRACTOR SHALL USE APPROVED PAINT COLOR/TYPE.
- O. NEW CARBON MONOXIDE DETECTORS SHALL BE ADDRESSABLE AND BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.

**KEY NOTES:**

- ① WIRE NEW GFI ROOFTOP SERVICE RECEPTACLE TO NEAREST 120V CONVENIENCE RECEPTACLE CIRCUIT IN CAFETERIA SPACE BELOW. WIRE WITH (2) #12, #12 GND. IN 1/2" CONDUIT.
- ② PROVIDE EXTENSION TO EXISTING LIGHTNING PROTECTION SYSTEM. INSTALLATION SHALL INCLUDE: AIR TERMINALS, MAIN CONDUCTORS (DOWNCOMERS, ROOF LOOP CONDUCTORS, CONNECTION CONDUCTORS, AND GROUND LOOP CONDUCTORS), GROUND RODS, AND ALL CONNECTIONS. DOWNCOMERS TO BE INSTALLED IN 1" PVC CONDUIT AND ARE TO BE CONCEALED WITHIN BUILDING BLOCK OR STRUCTURE. GROUND ROD TO BE 3/4" X 10' MINIMUM COPPER CLAD STEEL ROD, MINIMUM 2 FEET FROM BUILDING. STEEL FRAMING OF BUILDING SHALL BE TIED INTO LIGHTNING PROTECTION SYSTEM.



1 FIRST FLOOR OVERALL POWER AND SYSTEMS PLAN  
E201B 1/8" = 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**  
Project Address  
405 Union Avenue, New Windsor, NY 12553  
SID Number

**PROJECT ISSUE SCHEDULE**

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

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

**SHEET INFORMATION**

Issued  
09/06/2021  
Scale  
AS NOTED  
Project Status  
CONSTRUCTION DOCUMENTS  
Drawn By  
RJD  
Checked By  
ARM  
Drawing Title  
FIRST FLOOR POWER AND SYSTEMS PLAN - AREA B

Drawing Number  
**HMS E201B**



EQUIPMENT WIRING SCHEDULE

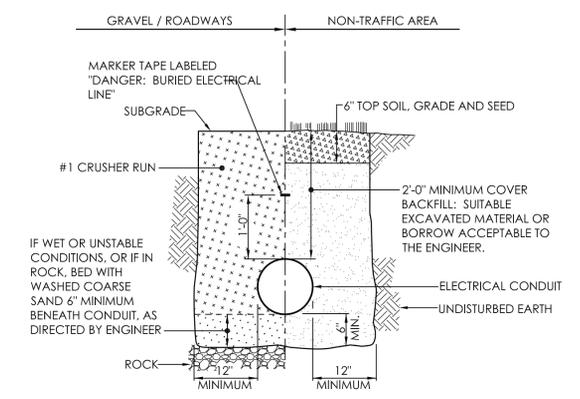
ITEM #	MARK	Room Location	VOLTS	PH	HP	FLA	WIRING/CONDUIT	BREAKER	PANEL	CIRCUIT	REMARKS
1	AHU-1	STORAGE 604	208 V	3		8.0 A	(3)#12, #12G IN 3/4" C	15/3	P-10	2,4,6	1
2	AHU-2	STORAGE 606	208 V	3		8.0 A	(3)#12, #12G IN 3/4" C	15/3	P-10	8,10,12	1
3	AHU-3	STORAGE 600A	208 V	3		8.0 A	(3)#10, #10G IN 3/4" C	15/3	P-9	8,10,12	1
4	AHU-4	STORAGE 600B	208 V	3		8.0 A	(3)#12, #12G IN 3/4" C	15/3	P-9	14,16,18	1
5	AHU-5	KITCHEN	208 V	3		8.0 A	(3)#12, #12G IN 3/4" C	15/3	PK-1	2,4,6	1,5
6	AHU-6	STORAGE 435	208 V	3		8.0 A	(3)#12, #12G IN 3/4" C	15/3	PK-1	2,4,6	1,5
7	SSI-9	SECURITY OFFICE	208 V	1		0.3 A	(2)#12, #12G IN 3/4" C	20/2	P-9	28,30	1,7,19
8	RTU-1	ROOF	208 V	3		54.0 A	(3)#4, #8G IN 1-1/4" C	90/3	MSB	-	1,2,5,9
9	RTU-2	ROOF	208 V	3		54.0 A	(3)#4, #8G IN 1-1/4" C	90/3	MSB	-	1,2,5,9
10	RTU-3	ROOF	208 V	3		54.0 A	(3)#4, #8G IN 1-1/4" C	90/3	MSB	-	1,5,9
11	PUMP P-1	PUMP ROOM 423	208 V	3	15 HP	48.3 A	(3)#4, #8G IN 1-1/4" C	90/3	P-9	1,3,5	1
12	PUMP P-2	PUMP ROOM 423	208 V	3	15 HP	48.3 A	(3)#4, #8G IN 1-1/4" C	90/3	P-9	7,9,11	1
13	FC-1	CUSTODIAN ROOM 159	120 V	1		1.0 A	(2)#12, #12G IN 3/4" C	20/1	P3, SEC. 1	11	1,5,18
14	ACC-1	EXTERIOR AT GRADE	208 V	3		57.0 A	(3)#4, #8G IN 1-1/4" C	80/3	P-10	1,3,5	1
15	ACC-2	EXTERIOR AT GRADE	208 V	3		57.0 A	(3)#4, #8G IN 1-1/4" C	80/3	P-10	7,9,11	1
16	ACC-3	EXTERIOR AT GRADE	208 V	3		57.0 A	(3)#4, #8G IN 1-1/4" C	80/3	P-10	13,15,17	1
17	ACC-4	EXTERIOR AT GRADE	208 V	3		57.0 A	(3)#4, #8G IN 1-1/4" C	80/3	P-10	19,21,23	1
18	ACC-5	KITCHEN ROOF	208 V	3		38.0 A	(3)#8, #10G IN 1" C	50/3	P-9	19,21,23	1
19	ACC-6	KITCHEN ROOF	208 V	3		63.0 A	(3)#4, #8G IN 1-1/4" C	90/3	P-9	25,27,29	1
20	ACC-7	KITCHEN ROOF	208 V	3		70.0 A	(3)#4, #8G IN 1-1/4" C	90/3	P-9	31,33,35	1
21	EF-2	STORAGE 600B	120 V	1	1/4 HP	3.8 A	(3)#12, #12G IN 3/4" C	20/1	P-9	13	1
22	SSI-1	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4" C	15/2	P-9	2,4	1,7
23	SSI-2	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4" C	15/2	P-9	2,4	1,7
24	SSI-3	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4" C	15/2	P-9	2,4	1,7
25	SSI-4	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4" C	15/2	P-9	2,4	1,7
26	SSI-5	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4" C	15/2	P-9	2,4	1,7
27	SSI-6	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4" C	15/2	P-9	2,4	1,7
28	CH-1	EXTERIOR GRADE	208 V	3		360.0 A	2 SETS OF (3)#500, #10G IN 3-1/2" C	800/3	DP-HVAC	-	1,17
29	EF-1	STORAGE 600A	120 V	1	1/4 HP	3.8 A	(2)#12, #12G IN 3/4" C	20/1	P-8	-	1,5
30	EF-3	ROOF	208 V	1	1/2 HP	5.4 A	(2)#12, #12G IN 3/4" C	20/2	P-11	16,18	1
31	EF-4	ROOF	208 V	1	1/2 HP	5.4 A	(2)#12, #12G IN 3/4" C	20/2	P3, SEC. 2	38,40	1,8
32	EF-5	ROOF	208 V	1	1/2 HP	4.9 A	(2)#12, #12G IN 3/4" C	20/2	P-11	16,18	1
33	EF-6	ROOF	208 V	1	2 HP	12.0 A	(2)#12, #12G IN 3/4" C	20/2	P-11	20,22	1
34	FC-2	GROUND FLOOR CORRIDOR	120 V	1		1.0 A	(2)#12, #12G IN 3/4" C	20/1	P-1A	14	1,2,15,18
35	UV-1	MUSIC 438	120 V	1		4.7 A	(2)#12, #12G IN 3/4" C	20/1	P-8	-	1,5,18
36	UV-2	ROOM 105	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P1, SEC. 1	32	1,10,18
37	UV-3	ROOM 105A	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P1, SEC. 1	32	1,10,18
38	UV-4	CORRIDOR - GROUND	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P1, SEC. 1	32	1,10,18
39	UV-5	ROOM 104	120 V	1		4.7 A	(2)#12, #12G IN 3/4" C	20/1	P1, SEC. 1	33	1,2,5,18
40	UV-6	ROOM 101	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P1, SEC. 1	35	1,2,5,18
41	UV-7	ROOM 114	120 V	1		4.7 A	(2)#12, #12G IN 3/4" C	20/1	P-2	-	1,2,5,18
42	UV-8	ROOM 113A	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P2, SEC. 2	35	1,10,18
43	UV-9	ROOM 113B	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P2, SEC. 2	35	1,10,18
44	UV-10	ROOM 112	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P2, SEC. 2	35	1,10,18
45	UV-11	ROOM 109	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P2, SEC. 2	33	1,10,18
46	UV-12	ROOM 110	120 V	1		4.7 A	(2)#12, #12G IN 3/4" C	20/1	P2, SEC. 2	33	1,10,18
47	UV-13	ROOM 111	120 V	1		4.7 A	(2)#12, #12G IN 3/4" C	20/1	P2, SEC. 2	33	1,10,18
48	UV-14	ROOM 206	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P3, SEC. 1	35	1,10,18
49	UV-15	ROOM 204	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P3, SEC. 1	35	1,10,18
50	UV-16	ROOM 203	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P3, SEC. 1	35	1,10,18
51	UV-17	ROOM 202	120 V	1		4.7 A	(2)#12, #12G IN 3/4" C	20/1	P3, SEC. 1	20	1,10,18
53	UV-19	ROOM 209	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P4, SEC. 2	40	1,8,18
54	UV-20	ROOM 215	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P4, SEC. 2	9	1,10,18
55	UV-21	ROOM 214	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P4, SEC. 2	9	1,10,18
56	UV-22	ROOM 216	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P4, SEC. 2	9	1,10,18
57	UV-23	ROOM 212	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P4, SEC. 2	40	1,8,18
58	UV-24	ROOM 213	120 V	1		4.7 A	(2)#12, #12G IN 3/4" C	20/1	P4, SEC. 1	19	1,11,18
59	UV-25	ROOM 210	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P4, SEC. 2	40	1,8,18
60	UV-26	ROOM 306	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P5, SEC. 1	17	1,10,18
61	UV-27	ROOM 305	120 V	1		3.7 A	(2)#12, #12G IN 3/4" C	20/1	P5, SEC. 1	17	1,10,18
62	UV-28	ROOM 304	120 V	1		4.7 A	(2)#12, #12G IN 3/4" C	20/1	P5, SEC. 1	33	1,8,18
63	UV-29	ROOM 309	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P5, SEC. 1	20	1,10,18
64	UV-30	ROOM 310	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P5, SEC. 1	20	1,10,18
65	UV-31	ROOM 303	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P5, SEC. 1	22	1,10,18
66	UV-32	ROOM 302	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P5, SEC. 1	22	1,10,18
67	UV-33	ROOM 311	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P6, SEC. 2	18	1,10,18
68	UV-34	ROOM 312	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P6, SEC. 2	18	1,10,18
69	UV-35	ROOM 301	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P5, SEC. 1	22	1,10,18
70	UV-36	ROOM 321	120 V	1		3.7 A	(2)#12, #12G IN 3/4" C	20/1	P6, SEC. 1	29	1,11,18
71	UV-37	ROOM 320	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P6, SEC. 2	18	1,10,18
72	UV-38	ROOM 318	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P6, SEC. 1	27	1,10,18
73	UV-39	ROOM 317	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P6, SEC. 1	27	1,10,18
74	UV-40	ROOM 316	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P6, SEC. 1	27	1,10,18
75	UV-41	ROOM 313	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P-11	14	1,18
76	UV-42	ROOM 314	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P-11	14	1,18
77	UV-43	ROOM 315	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P-11	14	1,18
78	UV-44	ROOM 307	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P5, SEC. 1	20	1,10,18
79	UV-45	ROOM 402	120 V	1		4.7 A	(2)#12, #12G IN 3/4" C	20/1	P7	29	1,10,18
80	UV-46	ROOM 404	120 V	1		4.7 A	(2)#12, #12G IN 3/4" C	20/1	P7	18	1,10,18
81	UV-47	ROOM 405	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P7	18	1,10,18
82	UV-48	ROOM 401	120 V	1		4.0 A	(2)#12, #12G IN 3/4" C	20/1	P7	29	1,10,18
83	FC-5	FIRST FLOOR CORRIDOR	120 V	1		1.0 A	(2)#12, #12G IN 3/4" C	20/1	P4, SEC. 1	20	1,2,16,18
84	SF-1	ATTIC	208 V	3	5 HP	16.7 A	(3)#8, #10G IN 1" C	35/3	P-11	31,33,35	1
85	SF-2	ATTIC	208 V	3	1/2 HP	2.4 A	(3)#12, #12G IN 3/4" C	20/3	P-11	25,27,29	1
86	SF-3	ATTIC	208 V	3	5 HP	16.7 A	(3)#8, #10G IN 1" C	35/3	P-11	2,4,6	1
89	SF-6	ATTIC	208 V	3	2 HP	7.5 A	(3)#12, #12G IN 3/4" C	20/3	P-11	7,9,11	1
90	SF-7	ATTIC	208 V	3	3 HP	10.6 A	(3)#12, #12G IN 3/4" C	20/3	P-11	13,15,17	1
91	SF-8	ATTIC	208 V	3	5 HP	16.7 A	(3)#8, #10G IN 1" C	35/3	P-11	1,3,5	1
92	RF-1	ATTIC	208 V	3	7-1/2 HP	24.2 A	(3)#8, #10G IN 1" C	50/3	P-11	37,39,41	1
93	RF-2	ATTIC	208 V	3	1-1/2 HP	6.6 A	(3)#12, #12G IN 3/4" C	20/3	P-11	25,27,29	1
94	RF-3	ATTIC	208 V	3	1/2 HP	2.4 A	(3)#12, #12G IN 3/4" C	20/3	P-11	25,27,29	1
95	RF-4	ATTIC	208 V	3	1/3 HP	2.4 A	(3)#12, #12G IN 3/4" C	20/3	P-11	8,10,12	1
96	RF-5	ATTIC	208 V	3	1/4 HP	2.4 A	(3)#12, #12G IN 3/4" C	20/3	P-11	8,10,12	1
97	RF-6	ATTIC	208 V	3	2 HP	7.5 A	(3)#12, #12G IN 3/4" C	20/3	P-11	19,21,23	1
98	RF-7	ATTIC	208 V	3	1-1/2 HP	6.6 A	(3)#12, #12G IN 3/4" C	20/3	P-11	28,30,32	1
99	RF-8	ATTIC	208 V	3	3 HP	10.6 A	(3)#12, #12G IN 3/4" C	20/3	P-11	34,36,38	1
100	DC-1	FAN MOTOR EXTERIOR AT GRADE	208 V	3	7.5 HP	25.3 A	(3)#8, #10G IN 1" C	50/3	PT-2	3,5,7	1,2,4,8,14
101	DC-1	SHAKER MOTOR EXTERIOR AT GRADE	208 V	3	1/3 HP	2.5 A	(3)#12, #12G IN 3/4" C	20/3	PT-2	32,34,36	1,2,4,8
102	EJECTOR PUMP EP-1	BOILER ROOM	120 V	1	1/3 HP	7.2 A	(2)#12, #12G IN 3/4" C	20/1	P1, SEC. 1	41	3,8,12
103	EJECTOR PUMP EP-2	BOILER ROOM	120 V	1	1/3 HP	7.2 A	-	-	-	-	3,13
104	GMP-1	PUMP ROOM	120 V	1	1/3 HP	7.2 A	(2)#12, #12G IN 3/4" C	20/1	P-9	6	1
105	RTU-4	CAFETERIA ROOF	208 V	3		195.0 A	(3)#500, #2G IN 3-1/2" C	250/3	MSB	-	1
106	SSI-7	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4" C	15/2	P-9	2,4	1,7
107	SSI-8	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4" C	15/2	P-9	2,4	1,



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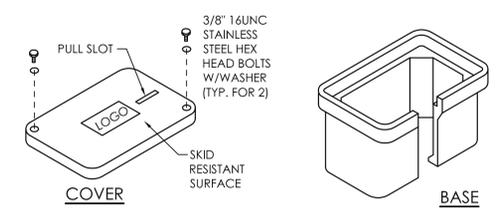
**PROJECT INFORMATION**  
Project Number: 13940.18  
Client Name: NEWBURGH ENLARGED CITY SCHOOL DISTRICT  
Project Name: PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT  
Project Address: 405 Union Avenue, New Windsor, NY 12553  
Project Number: 44-16-00-01-0-039-011  
**REVISION SCHEDULE**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

PANEL NAME: P-9		PANEL LOCATION: Ground Floor Storage Room 440						Revised: 09/16/21
		Notes:						22KAIC RATING
		VOLTS	AMPS	PHASE	# CCTS	LUGS	BKR	
		208/120	400	3	42		400A	
DESCRIPTION	BREAKER	LINE 1	LINE 2	LINE 3	BREAKER	DESCRIPTION		
1 Pump P-1	90/3	48.3	2.7	48.3	2.7	CAFETERIA SSI UNITS 1-8	15/2	2
3								4
5 Pump P-2	90/3	48.3	8	48.3	8	GMP-1	20/1	6
7								8
9								10
11 EF-2	20/1	3.8	8			AHU-3	15/3	12
13								14
15 SSI CONDENSATE PUMPS	20/1			9	8	AHU-4	15/3	16
17 HEAT TRACE - CHILLER	20/1							18
19		38						20
21 ACC-5	50/3			38		SPARE	20/3	22
23								24
25		63	5			CHEMICAL POT FEEDER	20/1	26
27 ACC-6	90/3			63	9.8			28
29						SSO-9 & SSI-9	20/2	30
31								32
33 ACC-7	90/3			70		SPARE	20/1	34
35								36
37						SPARE	20/1	38
39						SPARE	20/3	40
41						SPARE		42
		295.1		305.1				



- NOTES:**
- 1) ALL MATERIAL PLACED IN GRAVEL/ROADWAY AREAS SHALL BE COMPACTED IN MAXIMUM 6" LIFTS.
  - 2) THIS TRENCH DETAIL SHALL INCLUDE THE REQUIREMENTS COMMON TO MORE THAN ONE SECTION OF DIVISION 2 OF THE SPECIFICATIONS.

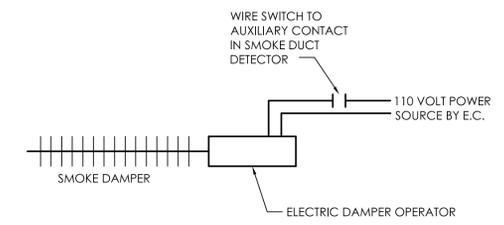
**1 TYPICAL TRENCH DETAIL FOR CONDUIT**  
E901 NOT TO SCALE



- NOTES:**
1. PROVIDE QUAZITE OPEN BOTTOM POLYMER HANDHOLE OR EQUAL.
  2. COORDINATE DEPTH OF HANDHOLES WITH FIELD CONDITIONS. HANDHOLES TO BE LOCATED IN NON-TRAFFIC GRASS AREAS WITH TOP FLUSH WITH FINISHED GRADE.
  3. PROVIDE 12" MINIMUM CRUSHED STONE BELOW HANDHOLE FOR DRAINAGE.
  4. FILL AND COMPACT THE SOIL AROUND THE HANDHOLE TO GRADE LEVEL WITH THE COVER ON THE ENCLOSURE.

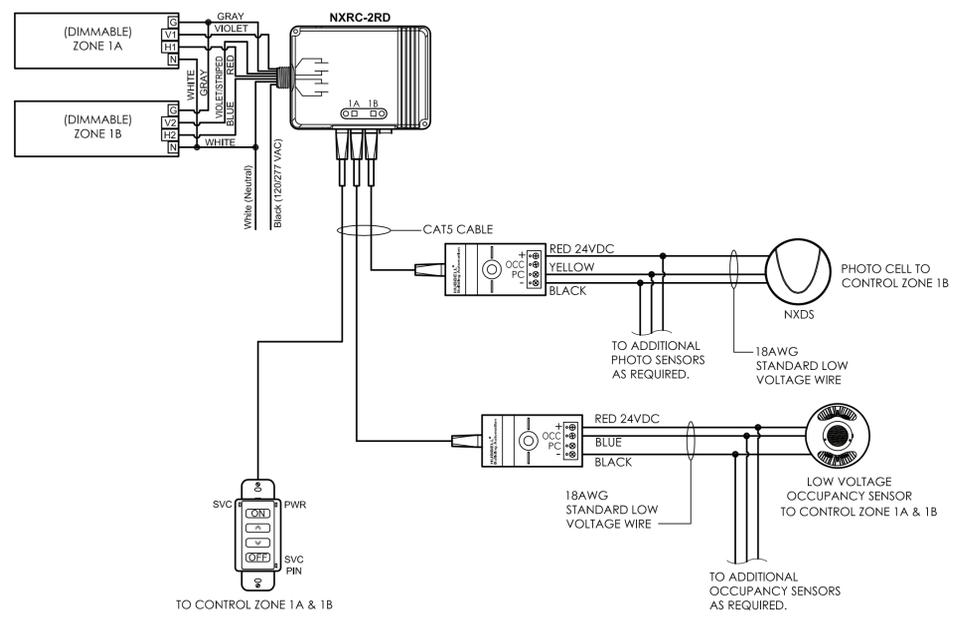
**2 TYPICAL HANDHOLE DETAIL**  
E901 NOT TO SCALE

PANEL NAME: P-10		PANEL LOCATION: STORAGE ROOM 606						Revised: 07/15/21
		Notes:						22KAIC RATING
		VOLTS	AMPS	PHASE	# CCTS	LUGS	BKR	
		208/120	400	3	30		350A	
DESCRIPTION	BREAKER	LINE 1	LINE 2	LINE 3	BREAKER	DESCRIPTION		
1 ACC-1	80/3	57	8	57	8	AHU-1	15/3	2
3								4
5								6
7		57	8					8
9 ACC-2	80/3			57	8	AHU-2	15/3	10
11								12
13		57	4.5			HVAC SERVICE RECEPT.	20/1	14
15 ACC-3	80/3			57		SPARE	20/1	16
17						SPARE	20/1	18
19		57				SPARE	20/1	20
21 ACC-4	80/3			57		SPACE		22
23						SPACE		24
25						SPACE		26
27						SPACE		28
29						SPACE		30
		248.5		244				



**3 SMOKE DAMPER CONTROL DETAIL**  
E901 NOT TO SCALE

PANEL NAME: P-11		PANEL LOCATION: Attic						Revised: 08/11/21
		Notes:						22KAIC Rating
		VOLTS	AMPS	PHASE	# CCTS	LUGS	BKR	
		208/120	225	3	42		225	
DESCRIPTION	BREAKER	LINE 1	LINE 2	LINE 3	BREAKER	DESCRIPTION		
1 SF-8	35/3	16.7	16.7			SF-3	35/3	2
3								4
5								6
7 SF-6	20/3	7.5	4.8	7.5	4.8	RF-4, RF-5	20/3	8
9								10
11				7.5	4.8			12
13		10.6	12			UV-41, UV-42, UV-43	20/1	14
15 SF-7	20/3			10.6	10.3	EF-3, EF-5	20/2	16
17								18
19		7.5	12			EF-6	20/2	20
21 RF-6	20/3			7.5	12			22
23						ROOF SERVICE RECEPT.	20/1	24
25		11.4	10.5			HVAC SERVICE RECEPT.	20/1	26
27 SF-2, RF-2, RF-3	20/3			11.4	6.6			28
29								30
31		16.7	6.6					32
33 SF-1	35/3			16.7	10.6			34
35								36
37		24.2	10.6					38
39 RF-1	50/3			24.2		SPARE	20/1	40
41						SPARE	20/1	42
		167.8		155.6				



- LIGHTING CONTROL NOTES:**
- DETAIL SHOWN IS A TYPICAL LAYOUT AND SHOWN FOR CLARITY OF COMPONENTS AND WIRING. IT IS NOT INTENDED TO SHOW EVERY SCENARIO IN DIFFERENT TYPE SPACES. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL MATERIALS REQUIRED TO PROVIDE THE QUANTITY OF CONTROL ZONES, CIRCUITS, AND DIMMING ARRANGEMENTS SHOWN ON LIGHTING PLANS.

**4 TYPICAL LIGHTING CONTROL DIAGRAM**  
E901 NOT TO SCALE

**SHEET INFORMATION**  
Issued: 09/06/2021  
Score: AS NOTED  
CONSTRUCTION DOCUMENTS  
Drawn By: RJD  
ARM  
Checked By:  
Drawing Title: ELECTRICAL DETAILS AND PANELBOARD SCHEDULES  
Drawing Number:

HMS  
E901

Sheet size: 30x42  
Drawing Name: S:\Projects\Newburgh ECSD\Heritage MS Addm. & Reno\Design\06\_CAD\AutoCAD\ELEC\EA\E901\_Panels and Details.dwg  
Date last plotted: 9/16/2021 8:22 AM  
Date last accessed: 9/16/2021 8:10 AM  
Plotted By: Robin DeBue