



**Grove City Area School District
Middle School
HVAC Equipment Replacement and Upgrades**

Project No: 25-S43-01

Grove City Area School District
511 Highland Avenue, Grove City, PA 16127

ADDENDUM 1

8/5/2025

This Addendum forms part of the Contract Documents and modifies the original bidding documents dated 7/18/2025. Acknowledge receipt of this Addendum by inserting its number and date in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

This addendum consists of **15 pages**

CHANGES TO PRIOR ADDENDA

None

CHANGES TO PROJECT MANUAL

None

CHANGES TO DRAWINGS

Item 1.1

Sheet	Detail	Comments/Changes
AD.101	General Demolition Notes	Note 7 – CHANGE to read as follows: GC SHALL SALVAGE AND PROTECT ALL CEILING TILES AFTER REMOVAL FOR REINSTALLATION. SUSPENSION SYSTEM SHALL BE REPLACED WITH NEW. DAMAGED/STAINED CEILING TILES SHALL BE REPLACED WITH NEW TO MATCH EXISTING. Sheet AD.101 is replaced with the one attached to this Addendum.
A.711 A.712 A.713	Numbered Reflected Ceiling Notes	Note 1.4A – CHANGE to read as follows: PROVIDE NEW SUSPENSION SYSTEM AND FRAMING IN SAME LOCATION AND ORIENTATION AS EXISTING. TIE INTO EXISTING MAIN FRAMING MEMBERS AS NECESSARY.

MIDDLE SCHOOL
HVAC EQUIPMENT REPLACEMENT AND UPGRADES

GROVE CITY AREA SCHOOL DISTRICT
DRAW Project No. 25-S43-01

INSTALL SALVAGED TILES. DAMAGED/STAINED CEILING TILES SHALL BE REPLACED WITH NEW TO MATCH EXISTING. Sheets A.711, A.712 and A.713 are replaced with the ones attached to this Addendum.

Item 1.2:

Sheet	Detail	Comments/Changes
H.111	First Floor Demolition Plans HVAC	Coded Note 1 calls for the house keeping pads at the pumps to be removed and replaced. The pads may remain and be reused if the new pumps will fit onto the existing pads and be properly secured in place and the installation will not require any unusual piping offsets or bends in the flexible connectors that do not meet the manufacturer's installation instructions.
H.121	Roof Demolition Plan – HVAC	Coded Note 3 calls for the roof mounted ductwork and supports to be removed. Supports rails that are embedded in the roof may remain and be reused.
H.221	Roof Plan - HVAC	The orientation of RTU-3 has been changed. The original design had the supply discharge of the RTU exiting the unit through the bottom and then running through the curb adaptor before exiting to the roof, and the return ductwork connecting into the side of the RTU. The new configuration has the RTU rotated 180 degrees, the supply discharge is through the sidewall of the unit, with the return duct connection in the bottom of the unit. This configuration will required the return duct to penetrate the sidewall of the curb adaptor. Sheet H.221 is replaced with the one attached to this Addendum.
H.511	Details – HVAC Roof Curb – Transition Adapter Detail	The original detail indicated that the existing isolation rails were to be reused and showed the isolators resting on top of the adapter curb and below the rooftop equipment. The detail has been updated to remove the isolators on top of the adapter curb and to indicate that the existing isolators on the existing curb are to remain and be reused. Refer to Coded Note 8 on revised detail on drawing. Sheet H.511 is replaced with the one attached to this Addendum.

SUPPLEMENTAL INFORMATION

The following are provided for bidders' information and are not considered changes to the Contract Documents.

- As per General Demolition Note 9 on drawing AD.101, the HC and EC are to provide temporary supports for the electrical items and lighting and HVAC components where the ceiling
- The GC shall remove and protect all ceiling tiles for reinstallation. Damaged ceiling tiles shall be replaced with tiles that match existing.
- Ceiling suspension systems that are removed shall be replaced with new to match existing.
- Contractors will be required to provide their own roof access on the outside of the building.
- Protection of the floors shall be the responsibility of the HVAC Contractor.

- Where demolition of the ceilings is called for, the ceilings may remain open until the work above the ceilings is completed.
- For second shift work, the earliest start time shall be at 3:45 p.m. to try and give the students, parents, and teachers time to leave the school before the Contractors begin work. Classes end at 3:15 p.m.
- The new rooftop equipment is lighter than the existing equipment. Additional structural steel is not expected.
- The expectation is that the temporary heaters would be rented, not purchased. The electrical work associated with the temporary heaters is shown on the electrical drawings. Temporary heat is only needed for the areas shown on the HVAC drawings, temporary heat is not required for the entire building.
- RFI responses are attached.

Attachments

Pre-Bid Meeting Sign In Sheet

AD.101

A.711, A.712, A.713

H.221, H.511

RFI responses

END OF ADDENDUM 1

122

Project:	Grove City Middle School HVAC Equipment Replacement and Upgrades	Meeting Date:	7/30/2025
Facilitator:	Tower Engineering	Place/Room:	Grove City Middle School

[illegible]

MEETING SIGN-IN SHEET

Project:	Grove City Middle School HVAC Equipment Replacement and Upgrades
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Meeting Date: 7/30/2025

Facilitator: Tower Engineering

Place/Room: Grove City Middle School

[illegible]

MEETING SIGN-IN SHEET

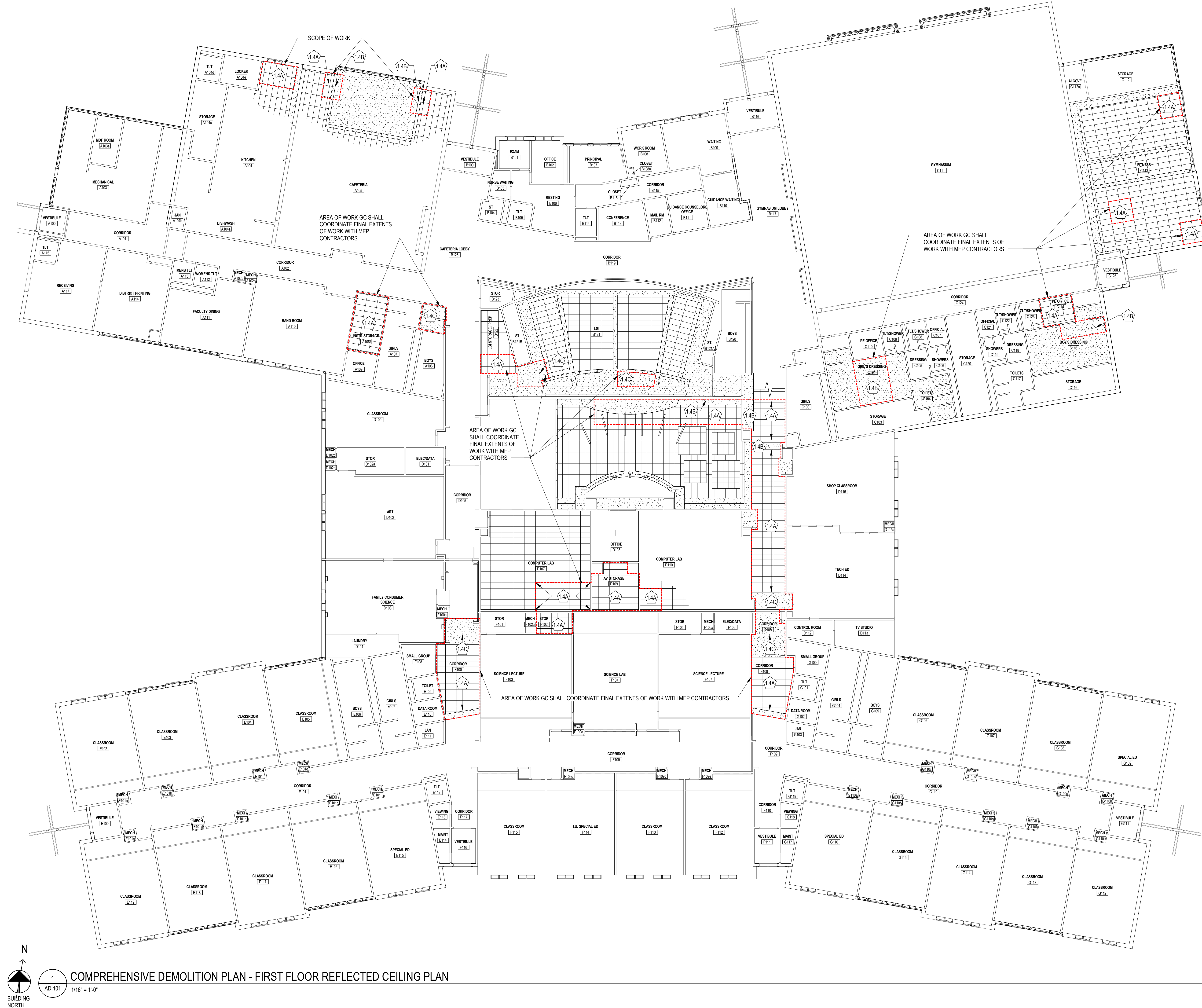
Project:	Grove City Middle School HVAC Equipment Replacement and Upgrades
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Meeting Date: 7/30/2025

Facilitator: Tower Engineering

Place/Room: Grove City Middle School

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GENERAL DEMOLITION NOTES

1. THE DEMOLITION PLANS ARE SCHEMATIC AND SHALL SERVE AS A GENERAL GUIDE AND ARE NOT INTENDED TO BE TOTALLY INCLUSIVE. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. COORDINATE DEMOLITION ACTIVITIES WITH ALL OTHER CONSTRUCTION IDENTIFIED ON CONSTRUCTION DOCUMENTS.
3. ITEMS SHOWN DASHED ON THE DEMOLITION PLANS SHALL BE REMOVED. TYPICAL UNDO KEYNOTES / ARROWS POINT TO A REPRESENTATIVE AMOUNT OF THE DEMOLITION WORK BUT ARE NOT INTENDED TO BE ALL INCLUSIVE.
4. REFER TO SPEC SECTION DIVISION 01 "SELECTIVE DEMOLITION" FOR SPECIFIC REQUIREMENTS REGARDING DEMOLITION SHOWN ON THIS DRAWING.
5. REFER TO SPEC SECTION DIVISION 01 "EXECUTION" FOR SPECIFIC REQUIREMENTS REGARDING CUTTING AND PATCHING SHOWN ON THIS DRAWING.
6. GC SHALL COORDINATE EXTENTS OF CEILING REMOVAL WITH THE HC.
7. GC SHALL SALVAGE AND PROTECT ALL CEILING TILES AFTER REMOVAL FOR REINSTALLATION. SUSPENSION SYSTEM SHALL BE REPLACED WITH NEW. DAMAGED/STAINED CEILING TILES SHALL BE REPLACED WITH NEW TO MATCH EXISTING. SHALL SALVAGE AND PROTECT ALL CEILING TILES, SUSPENSION SYSTEM AND ACCESSORIES FOR REINSTALLATION.
8. GC SHALL SUPPORT ADJACENT CEILINGS AS NECESSARY FOR REMOVAL OF THE CEILINGS TO ACCOMMODATE THE WORK. REMOVAL OF ACOUSTICAL PANEL SYSTEMS SHALL BE TO MAIN FRAMING MEMBERS.
9. GC AND HC SHALL REMOVE OR TEMPORARILY SUPPORT ALL ELECTRICAL ITEMS, LIGHTING AND HVAC COMPONENTS FROM THE CEILINGS THAT ARE BEING REMOVED BY THE GC. COORDINATE AS NECESSARY WITH GC AND HC ON EXTENTS OF CEILING REMOVAL.

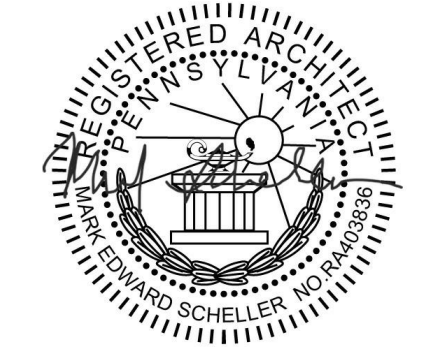
#	DEMOLITION NOTES
1.4A	GC SHALL REMOVE ENTIRE ACOUSTIC CEILING & SUSPENSION SYSTEM / FRAMING IN THIS AREA TO ACCOMMODATE MEP WORK ABOVE CEILING. COORDINATE AS NECESSARY WITH MEP CONTRACTORS. SUPPORT ADJACENT CEILINGS TO REMAIN AS NECESSARY.
1.4B	GC SHALL COORDINATE THE EXTENT OF GYPSUM BOARD CEILING/BULKHEAD & SUSPENSION SYSTEM/FRAMING REMOVAL WITH MEP CONTRACTORS AS REQUIRED TO ACCOMMODATE DEMOLITION AND NEW WORK. THE DESIGNATED AREA OF WORK IS A GENERAL AREA AND SHALL BE MODIFIED AS NECESSARY.
1.4C	GC SHALL REMOVE ENTIRE GYPSUM BOARD CEILING / BULKHEAD & SUSPENSION SYSTEM / FRAMING IN THIS AREA TO ACCOMMODATE MEP WORK ABOVE CEILING. COORDINATE AS NECESSARY WITH MEP CONTRACTORS.



Grove City Area School District
511 Highland Avenue
Grove City, PA 16127



HVAC Equipment
Replacements and
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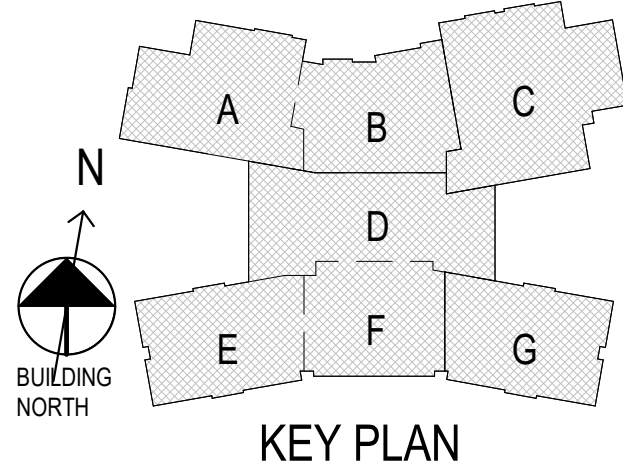


GROVE CITY AREA MIDDLE SCHOOL

100 Middle School Drive
Grove City, PA 16127

CONSTRUCTION DOCUMENTS

1 8/5/2 Addendum 1
5 REVISIONS



SCALE:
DRAWN BY:
CHECKED BY:

DATE: 07/18/2025

GROUND FLOOR
COMPREHENSIVE
DEMOLITION
PLAN

AD.101

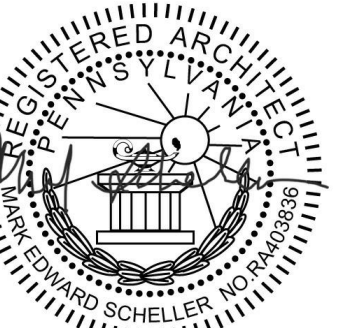
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Grove City Area School District
511 Highland Avenue
Grove City, PA 16127



HVAC Equipment
Replacements and
Upgrades

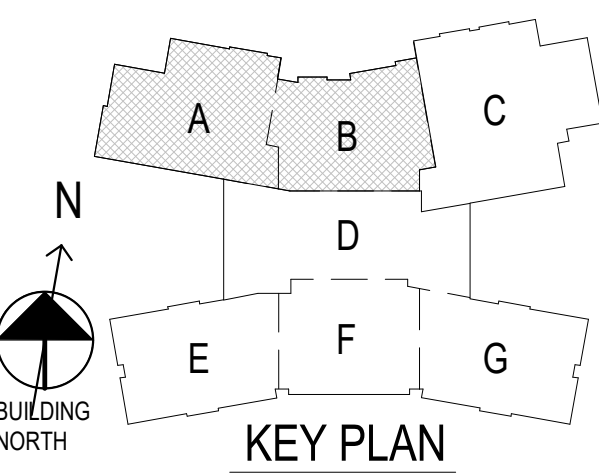


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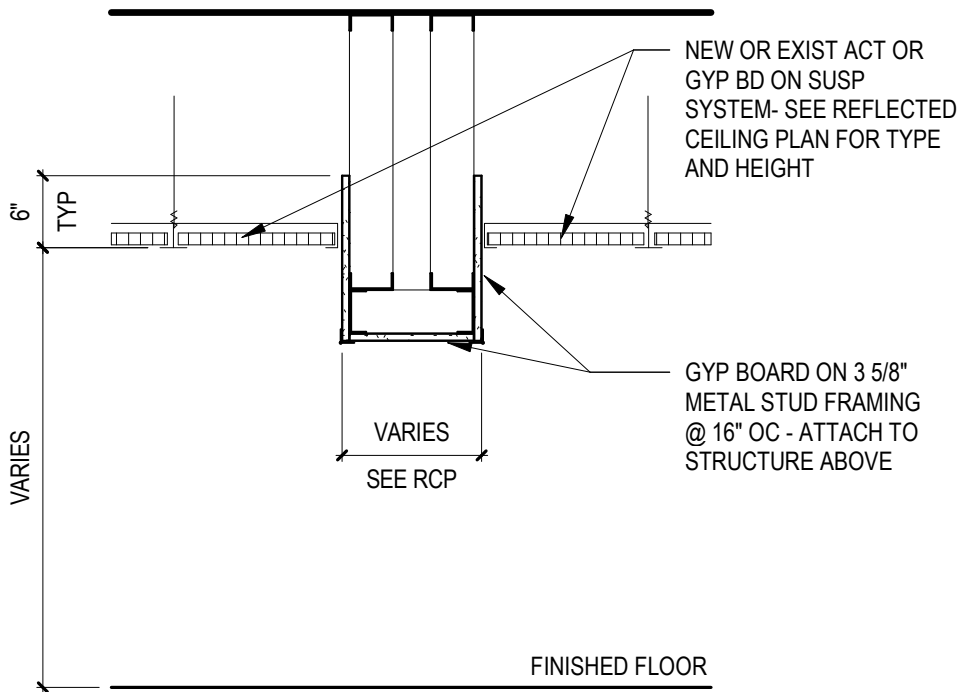
FIRST FLOOR -
REFLECTED
CEILING PLAN -
AREAS A AND B

A.711

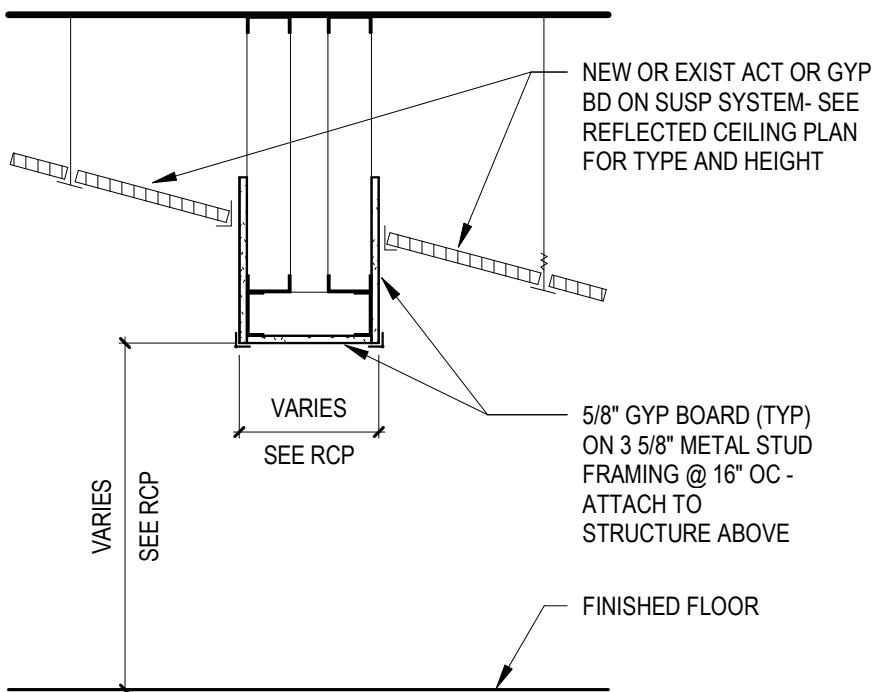
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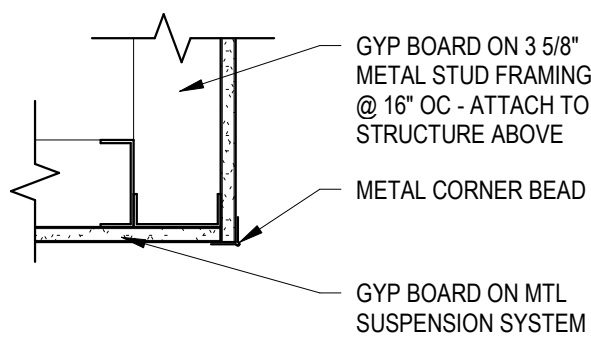
1
A.711
18" = 1'-0"



2
A.711
3/4" = 1'-0"



3
A.711
3/4" = 1'-0"



4
A.711
1 1/2" = 1'-0"

GENERAL RCP NOTES

1. GRILLES, DIFFUSERS, & SPRINKLER CAPS IN GPBD BULKHEADS SHALL BE PAINTED TO MATCH BULKHEAD COLOR TYPE, EXCEPT WHERE BULKHEAD IS WHITE.
2. PAINT ALL EXPOSED SURFACES - FACES AND UNDERSIDE OF GPBD BULKHEADS AND CEILINGS COLOR TO MATCH EXISTING.
3. FIELD CUT REVEAL EDGES IN CEILING ACOUSTIC TILE TO MATCH FACTORY EDGE REVEAL WHERE PANELS HAVE BEEN CUT TO NON STANDARD DIMENSIONS.
4. AT ROOMS WITH PARALLEL AND PERPENDICULAR WALLS, CENTER THE GRID IN THE ROOM.
5. AT GPBD BULKHEADS THAT TRANSITION TO HIGHER ADJACENT CEILINGS, PROVIDE GPBD ON METAL FRAMING AT EXPOSED VERTICAL FACES OF BULKHEADS, TYPICAL, UNO.

REFLECTED CEILING PLAN
SYMBOLS LEGEND

- EXISTING / NEW SUSPENDED ACOUSTIC PANEL CEILING (APC-X)
- EXISTING / NEW SUSPENDED GPBD CEILING, SOFFIT, OR BULKHEAD (GPBD)
- DEF'S SYNTHETIC STUCCO CEILING, SOFFIT, OR BULKHEAD (STUC-X)
- SPORTS NETTING
- 2" x 4" RECESSED LIGHT FIXTURE (BY ELECTRICAL CONTRACTOR)
- 2" x 2" RECESSED LIGHT FIXTURE (BY ELECTRICAL CONTRACTOR)
- SUSPENDED PENDANT LIGHT (BY ELECTRICAL CONTRACTOR)
- HVAC AIR DIFFUSER
- HVAC AIR GRILLE

#	NUM	DESCRIPTION
1.1	1.1	PATCH GYPSUM BOARD CEILING TO MATCH EXISTING ADJACENT. PAINT TO MATCH EXISTING.
1.1A	1.1A	INSTALL NEW GYPSUM BOARD CEILING AND SUSPENSION SYSTEM WHERE THE EXISTING HAS BEEN REMOVED. THE LOCATION OF THE NEW CEILING SHALL MATCH THE EXISTING. PAINT TO MATCH EXISTING COLOR.
1.4A	1.4A	PROVIDE NEW SUSPENSION SYSTEM AND FRAMING IN SAME ORIENTATION AND LOCATION AS EXISTING. TIE INTO EXISTING MAIN FRAMING MEMBERS AS NECESSARY. REINSTALL SALVAGED TILES. DAMAGED / STAINED CEILING TILES SHALL BE REPLACED WITH NEW TO MATCH EXISTING. PAINT TO MATCH EXISTING ADJACENT. REPAIR OR REPLACE DAMAGED / STAINED CEILING TILES HAVE BEEN IMPACTED DURING DEMOLITION OR INSTALLATION OF NEW WORK. PAINT COLOR TO MATCH EXISTING ADJACENT.

CEILING TYPES						
TYPE MARK	DESCRIPTION	EDGE	PANEL SIZE	MODEL	GRID	GRID COLOR
APC-1	ACOUSTIC PANEL CEILING - TYPE 1	SQUARE LAY-IN	2 X 4	ARMSTRONG CEILING SYSTEMS - CLEAN ROOM VL UNPERFORATED WITH RETENTION CLIPS	1516"	WHITE
APC-2	ACOUSTIC PANEL CEILING - TYPE 2	SQUARE LAY-IN	2 X 4	ARMSTRONG CEILING SYSTEMS - OPTIMA OPEN PLAN W/ CAC BACKING WITH RETENTION CLIPS	1516"	WHITE
APC-3	ACOUSTIC PANEL CEILING - TYPE 3	SQUARE LAY-IN	2 X 4	ARMSTRONG CEILING SYSTEMS - SCHOOL ZONE - FINE FISSURED - HIGH DURABILITY	1516"	WHITE
APC-4	ACOUSTIC PANEL CEILING - TYPE 4	SQUARE LAY-IN	2 X 4	ARMSTRONG CEILING SYSTEMS - SCHOOL ZONE - FINE FISSURED - HIGH ACOUSTICS	1516"	WHITE
APC-5	ACOUSTIC PANEL CEILING - TYPE 5	BEVELED TEGULAR	2 X 4	ARMSTRONG CEILING SYSTEMS - ULTIMA TEGULAR - FINE TEXTURE W/ CAC BACKING	1516"	WHITE
APC-8	ACOUSTIC PANEL CEILING - TYPE 8	ANGLED TEGULAR	2 X 4	ARMSTRONG CEILING SYSTEMS - FINE FISSURED OPEN PLAN - MEDIUM TEXTURE	1516"	WHITE
GPBD	GYPSUM BOARD CEILING					




NUM	DESCRIPTION
1.1	PATCH GYPSUM BOARD CEILING TO MATCH EXISTING ADJACENT. PAINT TO MATCH EXISTING.
1.1A	INSTALL NEW GYPSUM BOARD CEILING AND SUSPENSION SYSTEM WHERE THE EXISTING HAS BEEN REMOVED. THE LOCATION OF THE NEW CEILING SHALL MATCH THE EXISTING PAINT TO MATCH EXISTING ADJACENT.
1.4A	PROVIDE NEW SUSPENSION SYSTEM AND FRAMING IN SAME ORIENTATION AND LOCATION AS EXISTING. TIE INTO EXISTING MAIN FRAMING MEMBERS AS NECESSARY. REINSTALL SALVAGED TILES. DAMAGED / STAINED CEILING TILES SHALL BE REPLACED WITH NEW TO MATCH EXISTING.
1.4B	PAINT GYPSUM BOARD CEILING TO MATCH EXISTING ADJACENT. PAINT COLOR TO MATCH EXISTING ADJACENT.

- GENERAL RCP NOTES**
- GRILLES, DIFFUSERS, & SPRINKLER CAPS IN GPBD BULKHEADS SHALL BE PAINTED TO MATCH BULKHEAD COLOR TYPE, EXCEPT WHERE BULKHEAD IS WHITE.
 - PAINT ALL EXPOSED SURFACES - FACES AND UNDERSIDE OF GPBD BULKHEADS AND CEILINGS COLOR TO MATCH EXISTING.
 - FIELD CUT REVEAL EDGES IN CEILING ACOUSTIC TILE TO MATCH FACTORY EDGE REVEAL WHERE PANELS HAVE BEEN CUT TO NON STANDARD DIMENSIONS.
 - AT ROOMS WITH PARALLEL AND PERPENDICULAR WALLS, CENTER THE GRID IN THE ROOM.
 - AT GPBD BULKHEADS THAT TRANSITION TO HIGHER ADJACENT CEILINGS, PROVIDE GPBD ON METAL FRAMING AT EXPOSED VERTICAL FACES OF BULKHEADS, TYPICAL, UNO.

- REFLECTED CEILING PLAN SYMBOLS LEGEND**
- EXISTING / NEW SUSPENDED ACOUSTIC PANEL CEILING (APC-X)
 - EXISTING / NEW SUSPENDED GPBD CEILING, SOFFIT, OR BULKHEAD (GPBD)
 - DEFS SYNTHETIC STUCCO CEILING, SOFFIT, OR BULKHEAD (STUC-X)
 - SPORTS NETTING
 - 2' x 4' RECESSED LIGHT FIXTURE (BY ELECTRICAL CONTRACTOR)
 - 2' x 2' RECESSED LIGHT FIXTURE (BY ELECTRICAL CONTRACTOR)
 - SUSPENDED PENDANT LIGHT (BY ELECTRICAL CONTRACTOR)
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CEILING TYPES						
TYPE MARK	DESCRIPTION	EDGE	PANEL SIZE	MODEL	GRID	GRID COLOR
APC-1	ACOUSTIC PANEL CEILING - TYPE 1	SQUARE LAY-IN	2' x 4'	ARMSTRONG CEILING SYSTEMS - CLEAN ROOM VL UNPERFORATED WITH RETENTION CLIPS	15/16"	WHITE
APC-2	ACOUSTIC PANEL CEILING - TYPE 2	SQUARE LAY-IN	2' x 4'	ARMSTRONG CEILING SYSTEMS - OPTIMA OPEN PLAN W/ CAC BACKING WITH RETENTION CLIPS	15/16"	WHITE
APC-3	ACOUSTIC PANEL CEILING - TYPE 3	SQUARE LAY-IN	2' x 4'	ARMSTRONG CEILING SYSTEMS - SCHOOL ZONE - FINE FISSURED - HIGH DURABILITY	15/16"	WHITE
APC-4	ACOUSTIC PANEL CEILING - TYPE 4	SQUARE LAY-IN	2' x 4'	ARMSTRONG CEILING SYSTEMS - SCHOOL ZONE - FINE FISSURED - HIGH ACOUSTICS	15/16"	WHITE
APC-5	ACOUSTIC PANEL CEILING - TYPE 5	BEVELED TEGULAR	2' x 4'	ARMSTRONG CEILING SYSTEMS - ULTIMA TEGULAR - FINE TEXTURE W/ CAC BACKING	15/16"	WHITE
APC-8	ACOUSTIC PANEL CEILING - TYPE 8	ANGLED TEGULAR	2' x 4'	ARMSTRONG CEILING SYSTEMS - FINE FISSURED OPEN PLAN - MEDIUM TEXTURE	15/16"	WHITE
GPBD	GYPSUM BOARD CEILING					




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DRAW
COLLECTIVE
415 Washington Road, Pittsburgh, Pennsylvania 15228
412.561.7117 - www.drawcollective.com
Proj No. 25-S43-01

HVAC Equipment
Replacements and
Upgrades

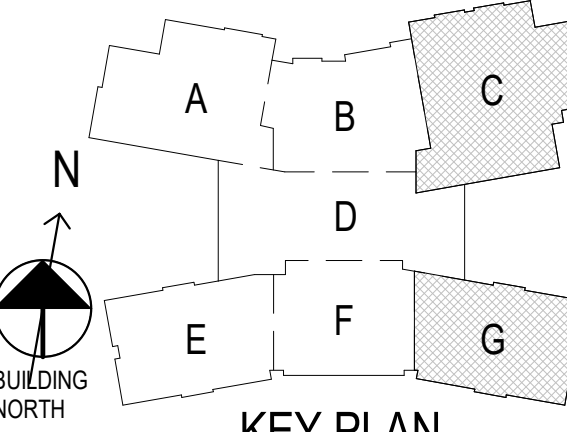


COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF REVENUE
TREASURER

GROVE CITY AREA MIDDLE SCHOOL
100 Middle School Drive
Grove City, PA 16127

CONSTRUCTION DOCUMENTS

1 8/5/2 Addendum 1
5 REVISIONS



KEY PLAN

SCALE:
DRAWN BY:
CHECKED BY:

DATE: 07/18/2025

**FIRST FLOOR -
REFLECTED
CEILING PLAN -
AREAS C AND G**

A.712

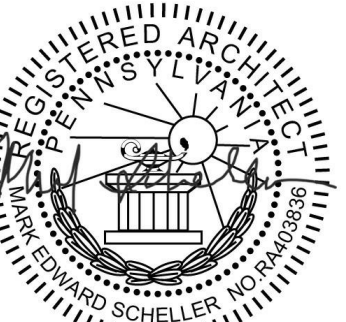
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HVAC Equipment Replacements and Upgrades

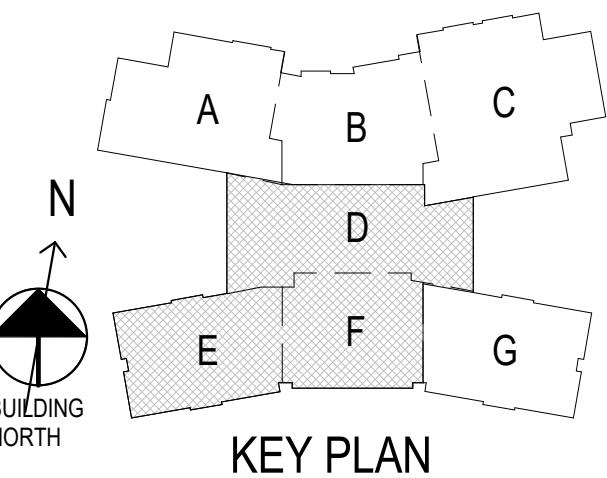


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CONSTRUCTION DOCUMENTS

1 8/5/25 Addendum 1
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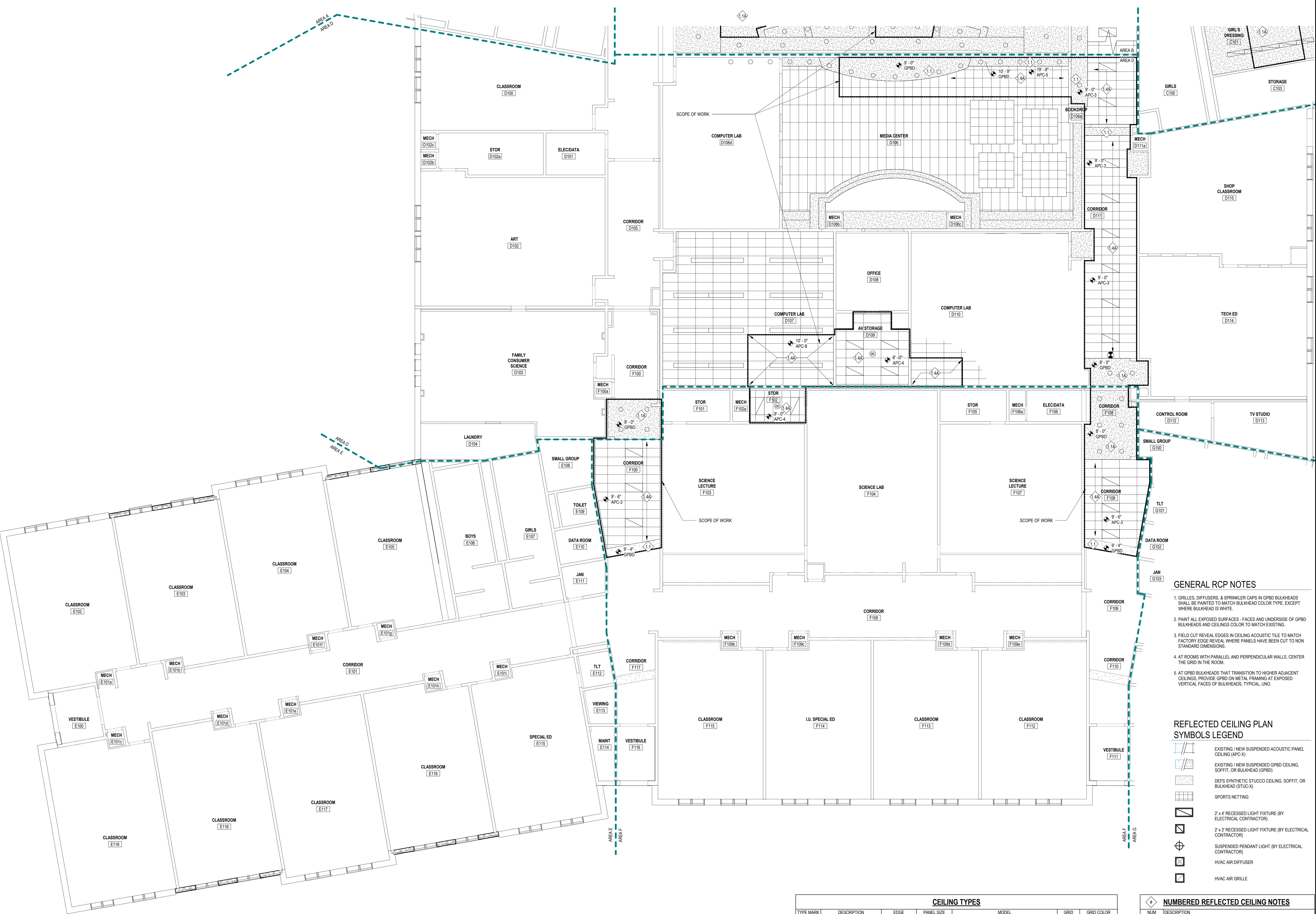
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DRAWN BY:
CHECKED BY:

DATE: 07/18/2025

FIRST FLOOR - REFLECTED CEILING PLAN - AREAS D, E AND F

A.713

DRAWING NUMBER



GENERAL RCP NOTES

1. GRILLES, DIFFUSERS, & SPRINKLER CAPS IN GPBD BULKHEADS SHALL BE PAINTED TO MATCH BULKHEAD COLOR TYPE, EXCEPT WHERE BULKHEAD IS WHITE.
2. PAINT ALL EXPOSED SURFACES - FACES AND UNDERSIDE OF GPBD BULKHEADS AND CEILINGS COLOR TO MATCH EXISTING.
3. FIELD CUT REVEAL EDGES IN CEILING ACOUSTIC TILE TO MATCH FACTORY EDGE REVEAL WHERE PANELS HAVE BEEN CUT TO NON STANDARD DIMENSIONS.
4. AT ROOMS WITH PARALLEL AND PERPENDICULAR WALLS, CENTER THE GRID IN THE ROOM.
5. AT GPBD BULKHEADS THAT TRANSITION TO HIGHER ADJACENT CEILINGS, PROVIDE GPBD ON METAL FRAMING AT EXPOSED VERTICAL FACES OF BULKHEADS, TYPICAL, UNO.

REFLECTED CEILING PLAN SYMBOLS LEGEND

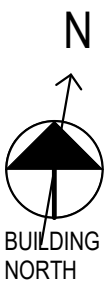
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- SUSPENDED PENDANT LIGHT (BY ELECTRICAL CONTRACTOR)
- HVAC AIR DIFFUSER
- HVAC AIR GRILLE

NUMBERED REFLECTED CEILING NOTES

- | # | NUM | DESCRIPTION |
|------|-----|--|
| 1.1 | | PATCH GYPSUM BOARD CEILING TO MATCH EXISTING ADJACENT. PAINT TO MATCH EXISTING. |
| 1.1A | | INSTALL NEW GYPSUM BOARD CEILING AND SUSPENSION SYSTEM WHERE THE EXISTING HAS BEEN REMOVED. THE LOCATION OF THE NEW CEILING SHALL MATCH THE EXISTING. PAINT TO MATCH EXISTING COLOR. |
| 1.4A | | PROVIDE NEW SUSPENSION SYSTEM AND FRAMING IN SAME ORIENTATION AND LOCATION AS EXISTING. TIE INTO EXISTING MAIN FRAMING MEMBERS AS NECESSARY. REINSTALL SALVAGED TILES. DAMAGED / STAINED CEILING TILES SHALL BE REPLACED WITH NEW TO MATCH EXISTING. |
| 1.4B | | PAINT EXPOSED SURFACES OF STRUCTURE AND METAL FRAMING THAT MAY HAVE BEEN IMPACTED DURING DEMOLITION OR INSTALLATION OF NEW WORK. PAINT COLOR TO MATCH EXISTING ADJACENT. |

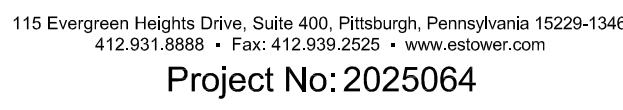
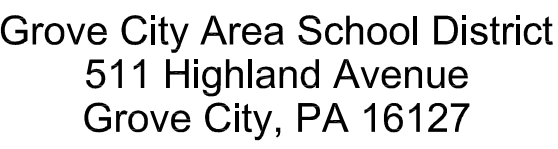
CEILING TYPES

TYPE MARK	DESCRIPTION	EDGE	PANEL SIZE	MODEL	GRID	GRID COLOR
APC-1	ACOUSTIC PANEL CEILING - TYPE 1	SQUARE LAY-IN	2' x 4'	ARMSTRONG CEILING SYSTEMS - CLEAN ROOM XL UNPERFORATED WITH RETENTION CLIPS	15/16"	WHITE
APC-2	ACOUSTIC PANEL CEILING - TYPE 2	SQUARE LAY-IN	2' x 4'	ARMSTRONG CEILING SYSTEMS - OPTIMA OPEN PLAN W/ CAC BACKING WITH RETENTION CLIPS	15/16"	WHITE
APC-3	ACOUSTIC PANEL CEILING - TYPE 3	SQUARE LAY-IN	2' x 4'	ARMSTRONG CEILING SYSTEMS - SCHOOL ZONE - FINE FISSED - HIGH ACOUSTICS	15/16"	WHITE
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APC-8	ACOUSTIC PANEL CEILING - TYPE 8	ANGLED TEGULAR	2' x 4'	ARMSTRONG CEILING SYSTEMS - FINE FISSED OPEN PLAN - MEDIUM TEXTURE	15/16"	WHITE
GPBD	GYPSUM BOARD CEILING					



1 FIRST FLOOR REFLECTED CEILING PLAN - AREAS D, E AND F

1/8" = 1'-0"



07/18/2025

Grove City Area Middle School

***100 Middle School Drive
Grove City, PA 16127***

CONSTRUCTION DOCUMENTS

ADDENDUM 1

REVISIONS



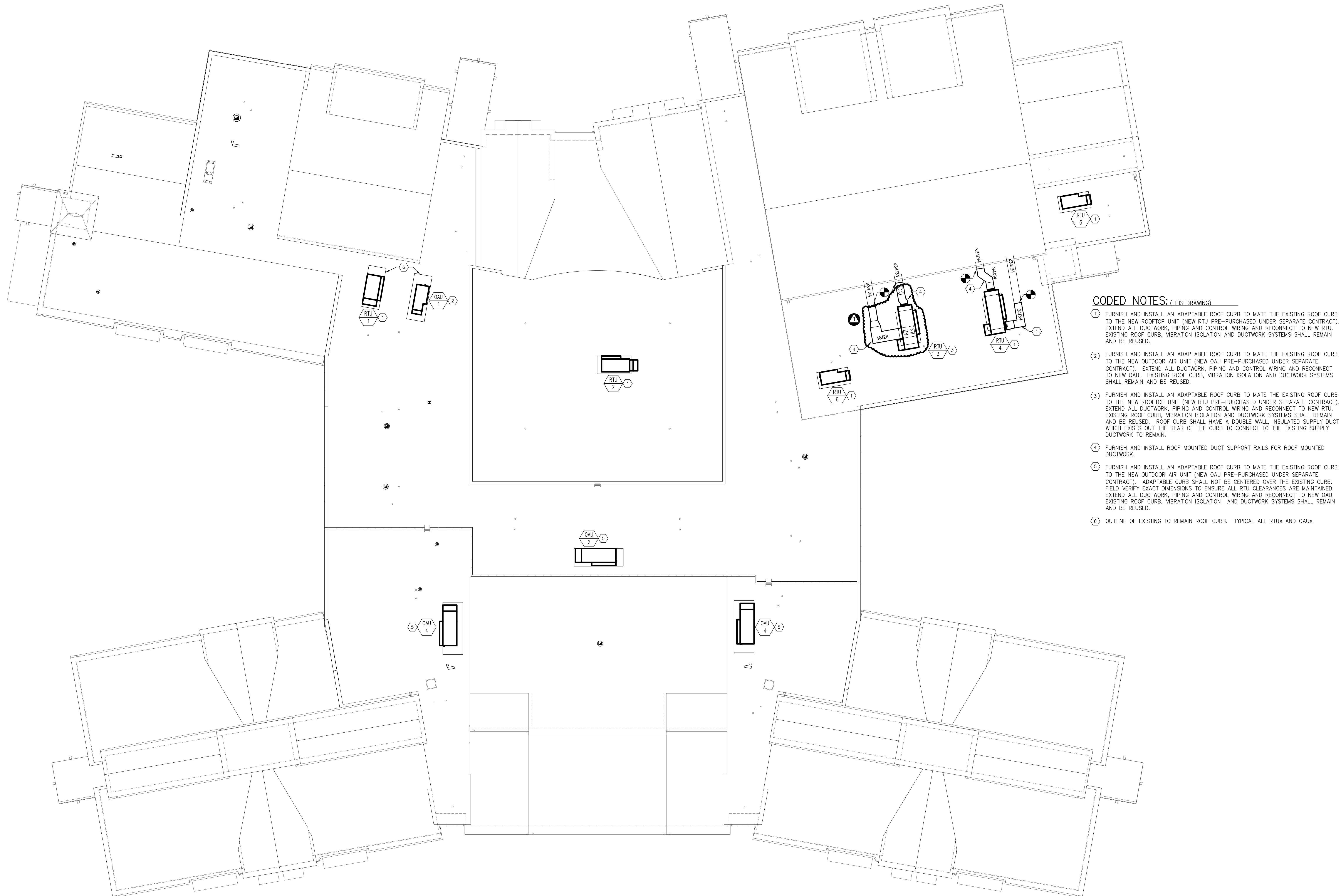
SCALE: 1/16" = 1'-0"
DRAWN BY: JF
CHECKED BY: MC

DATE: 07/18/2025

ROOF PLAN - HVAC

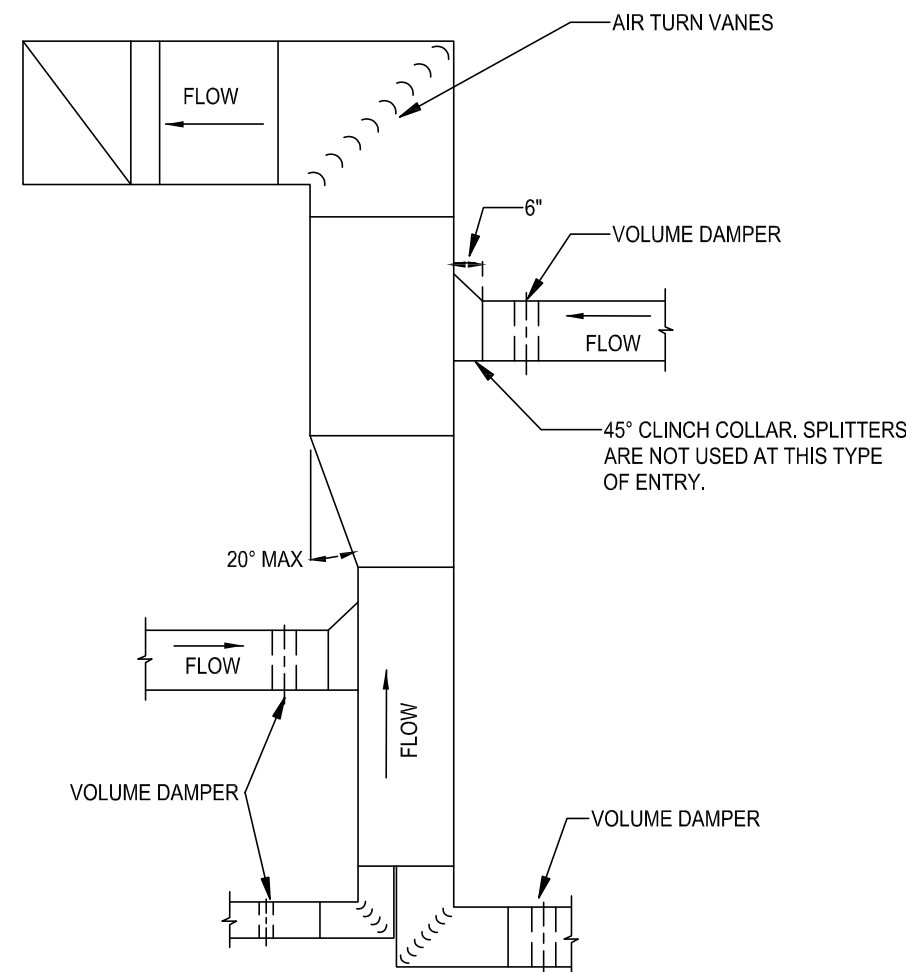
H.221

DRAWING NUMBER

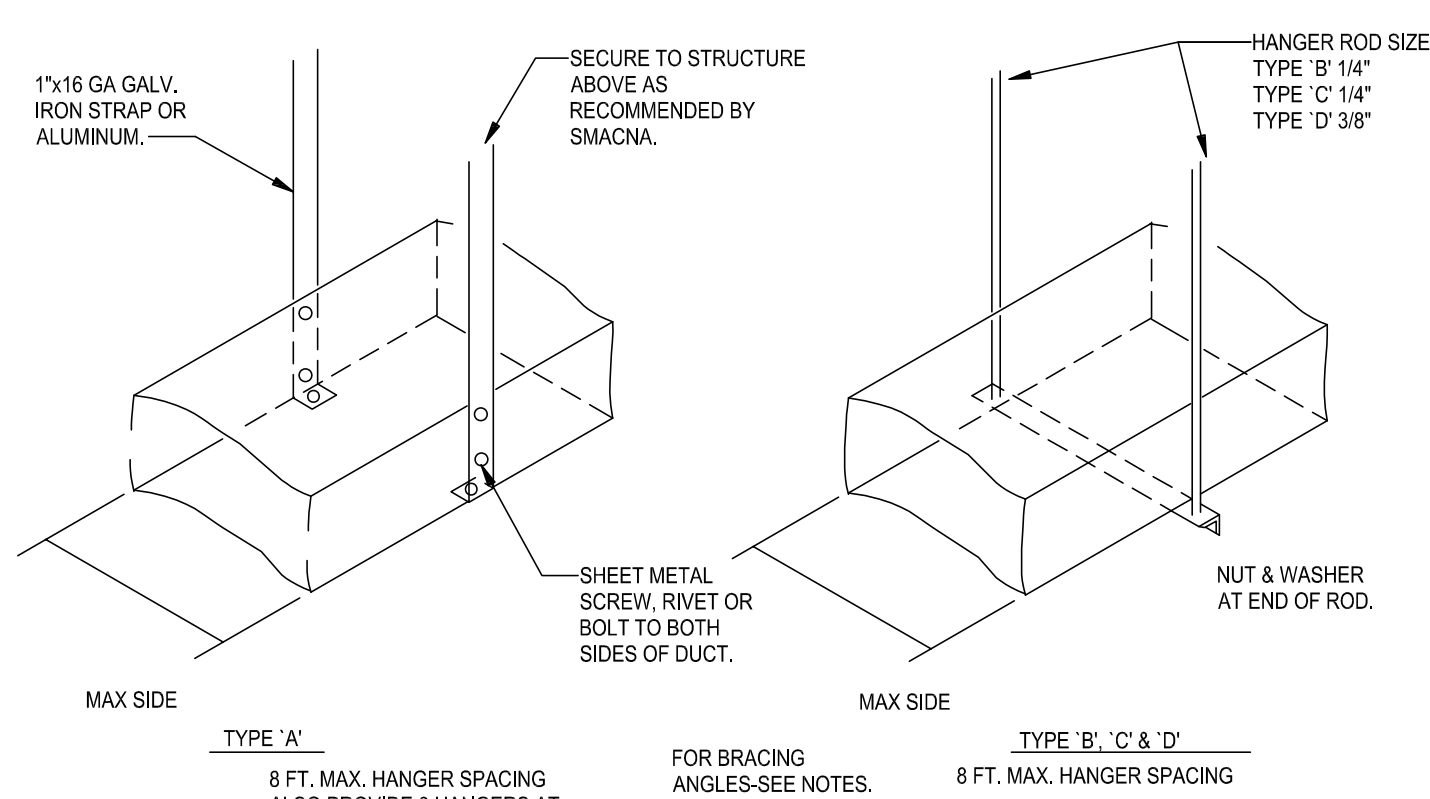


ROOF PLAN

$$1/16'' = 1'-0''$$



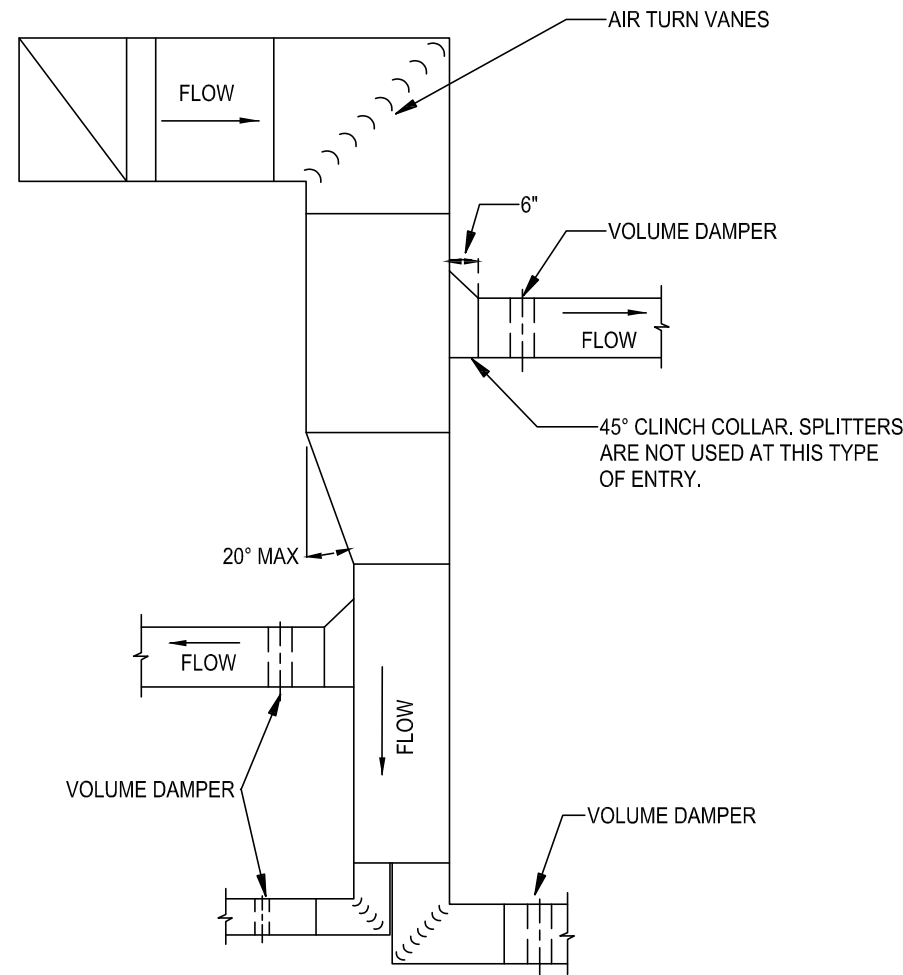
DUCTWORK - EXHAUST OR RETURN DETAIL
NO SCALE



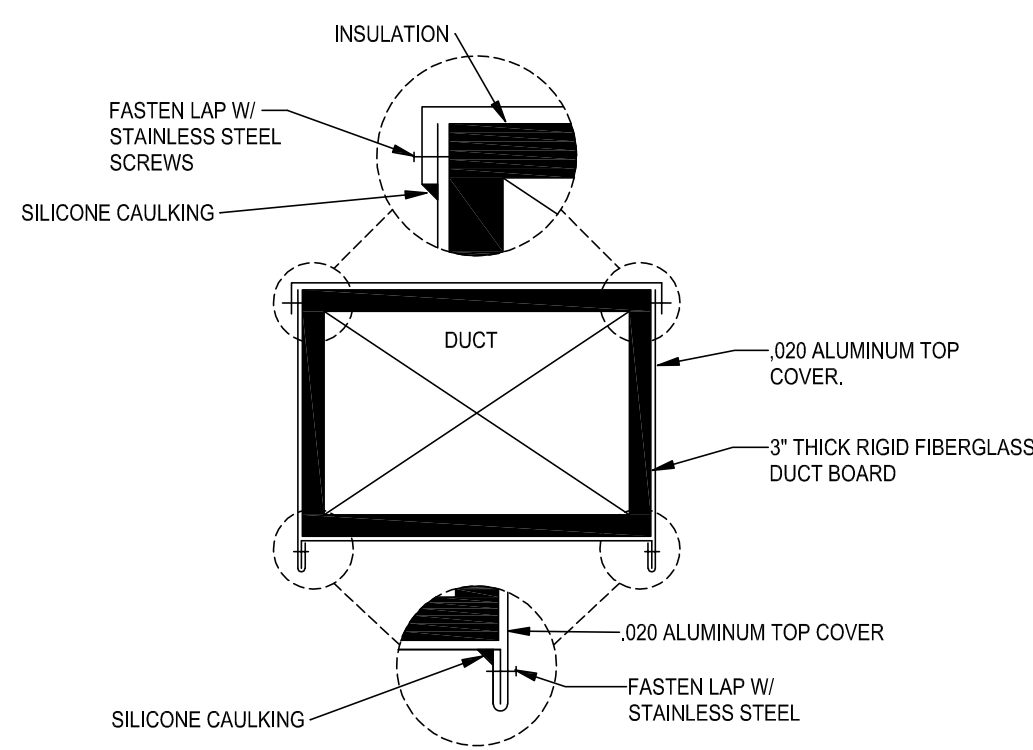
DUCT SCHEDULE		
DUCT DIMENSIONS INCHES		TYPE HANGER
UP THRU 12		A
13	18	A
19	30	A/B
31	42	B
43	54	B
55	60	B
61	84	C
85	96	C
OVER	96	D

- NOTES:
1. FOR SEVERAL DUCTS ON ONE HANGER TYPE 'B', 'C' OR 'D' MAY BE USED. SIZE OF HANGER WILL BE SELECTED ON THE SUM OF DUCT WIDTHS EQUAL TO MAX. WIDTH OF DUCT SCHEDULES.
2. SCHEDULES FOR ANGLES FOR BRACING: TYPE 'B' 1 1/2" x 1 1/2" x 1/8" ANGLE. MAX. SPACING 8'-0". CENTERS TYPE 'C' 1 1/2" x 1 1/2" x 1/8" ANGLE. MAX. SPACING 8'-0". CENTERS TYPE 'D' 2" x 2" x 1/4" MAX. SPACING 4'-0" CENTERS.

DUCTWORK HANGER DETAILS
NO SCALE

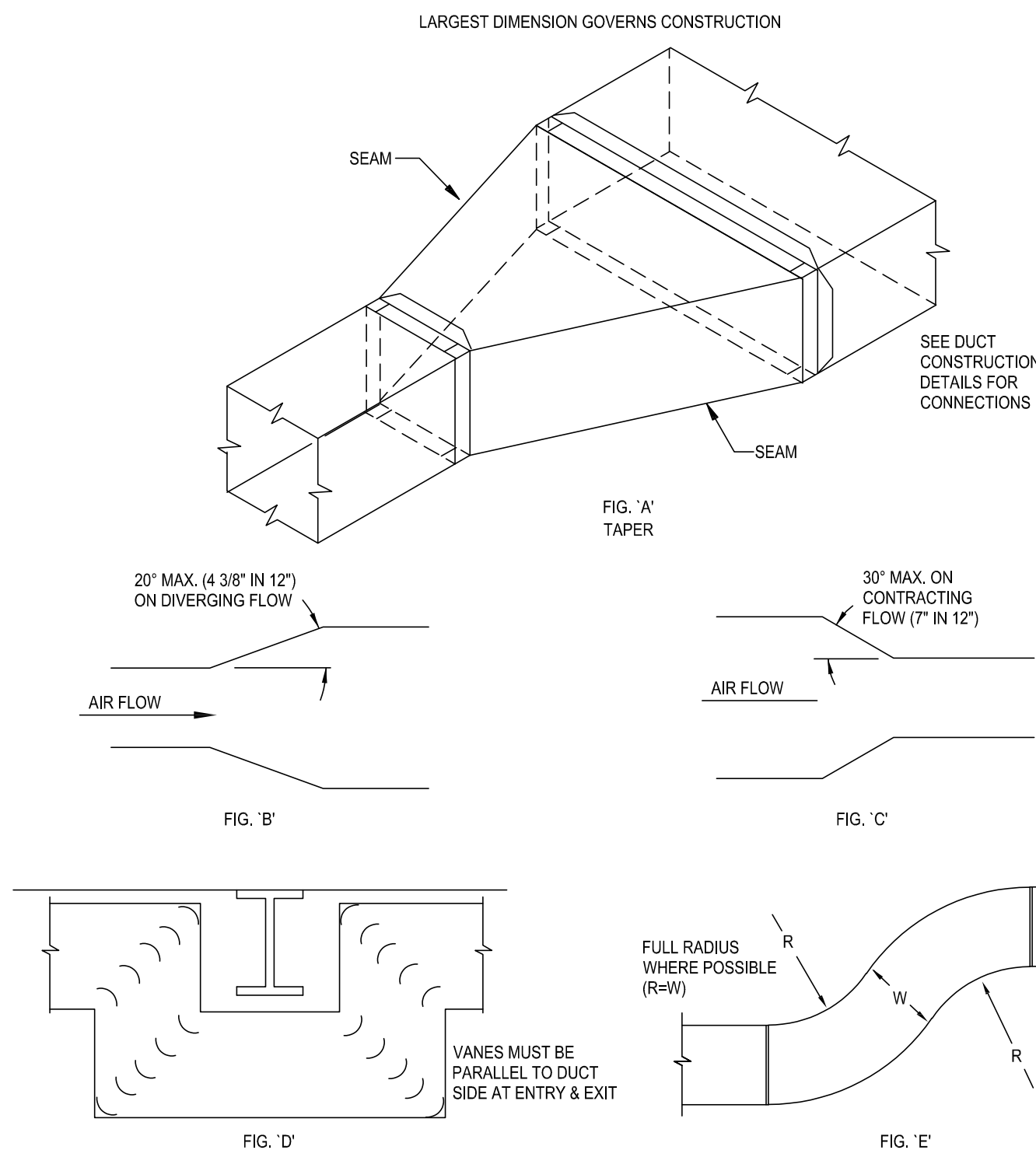


DUCTWORK - SUPPLY OR OUTDOOR AIR DETAIL
NO SCALE

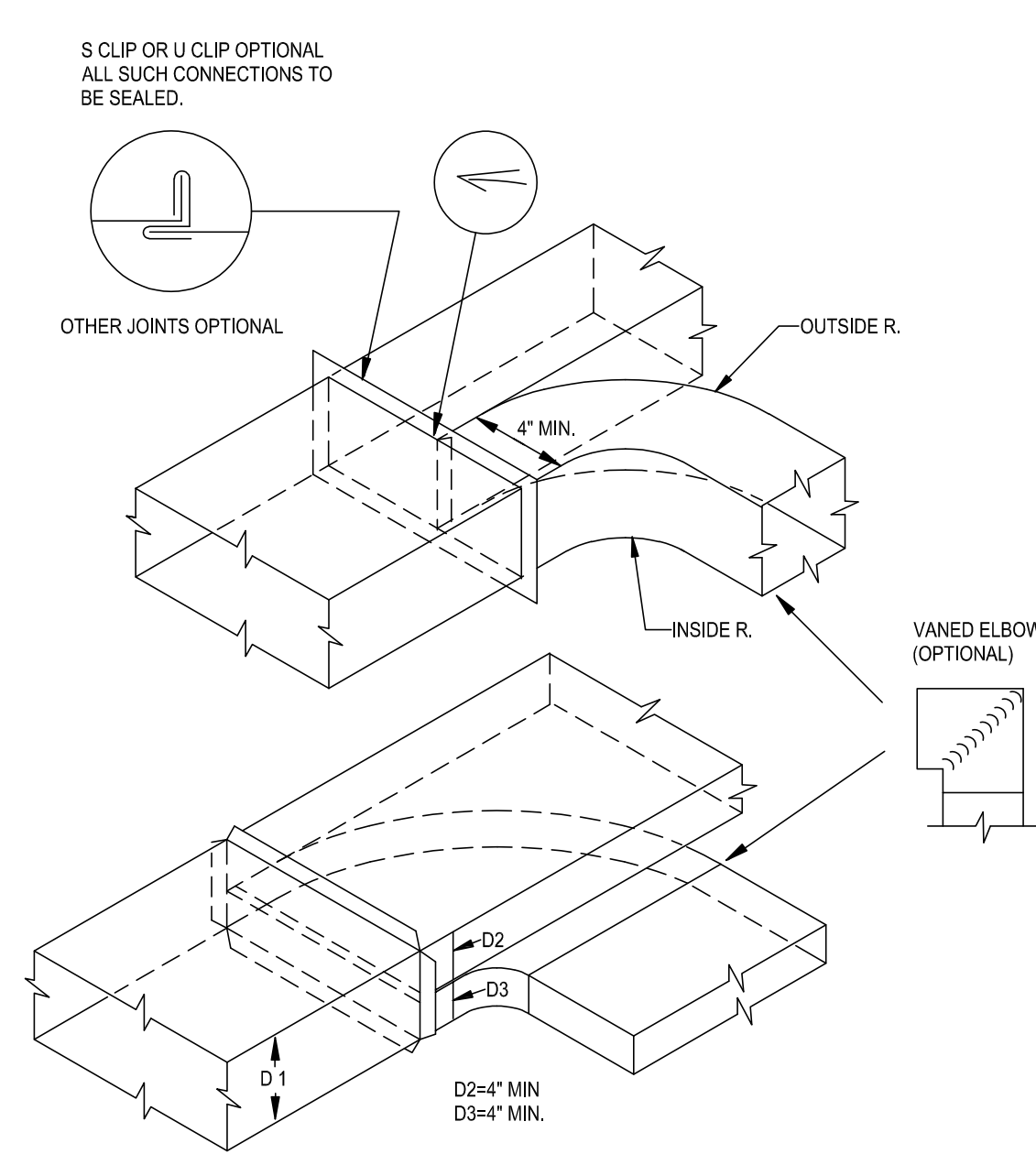


- NOTES:
1. ALL LAP SEAMS SHALL HAVE A MINIMUM LENGTH OF 1'-2"

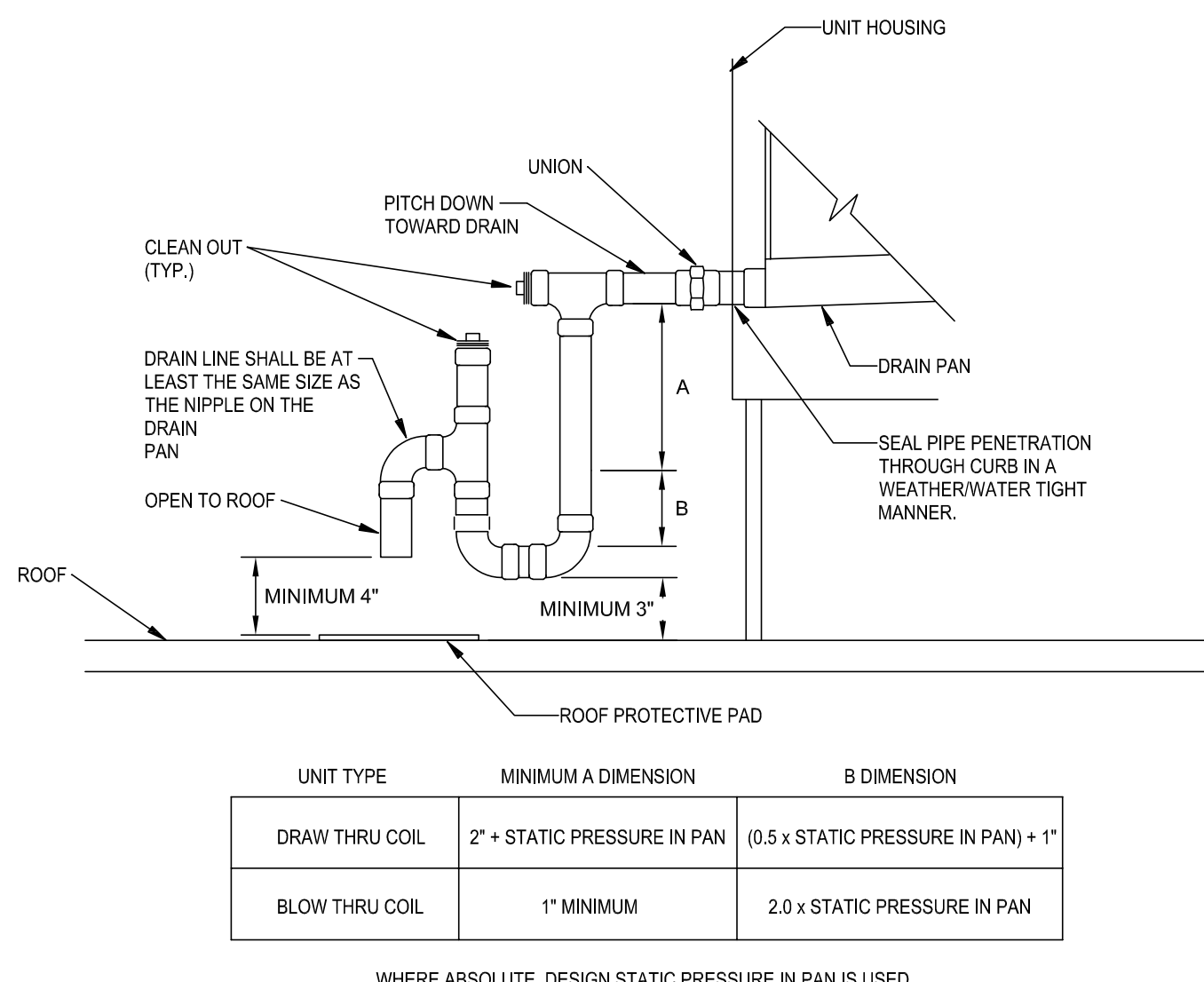
DUCTWORK OUTDOOR AIR JACKETING DETAIL
NO SCALE



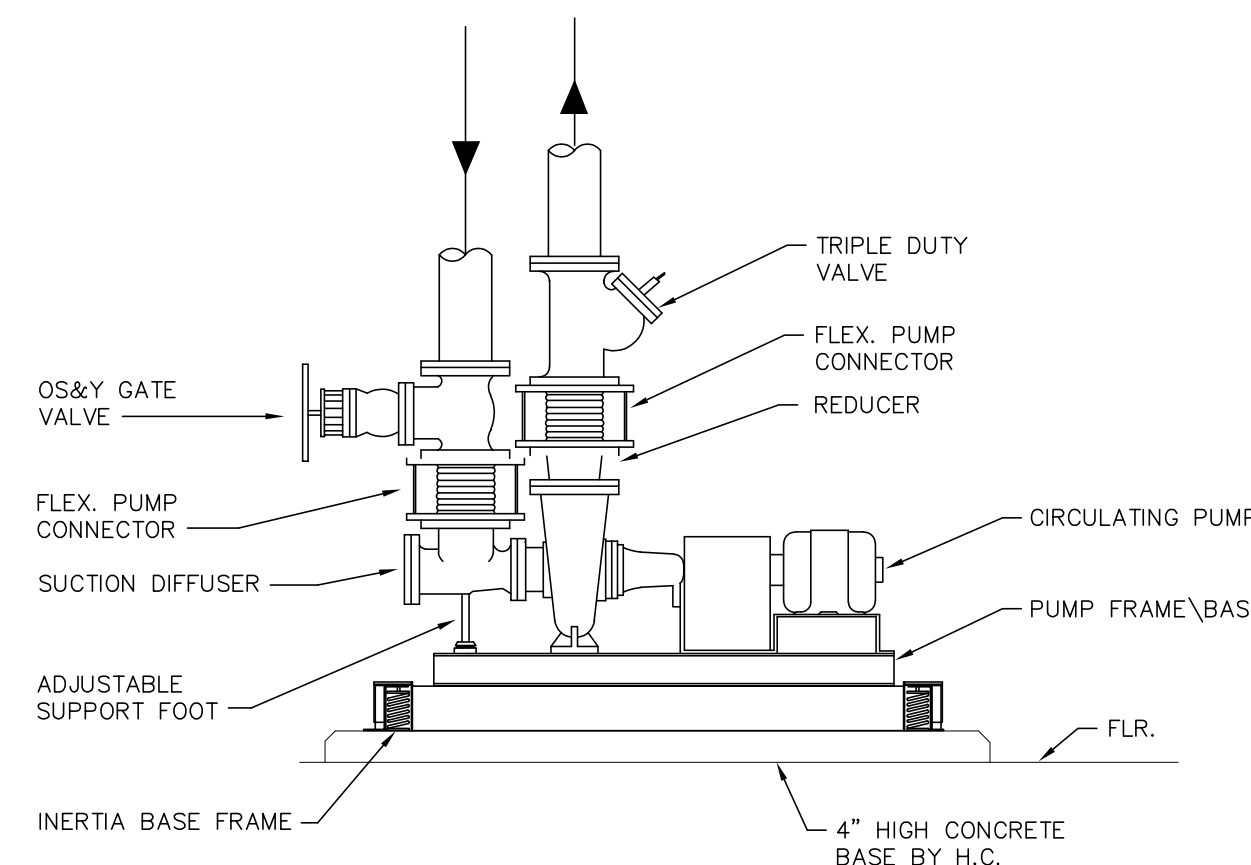
DUCTWORK CONSTRUCTION DETAILS
NO SCALE



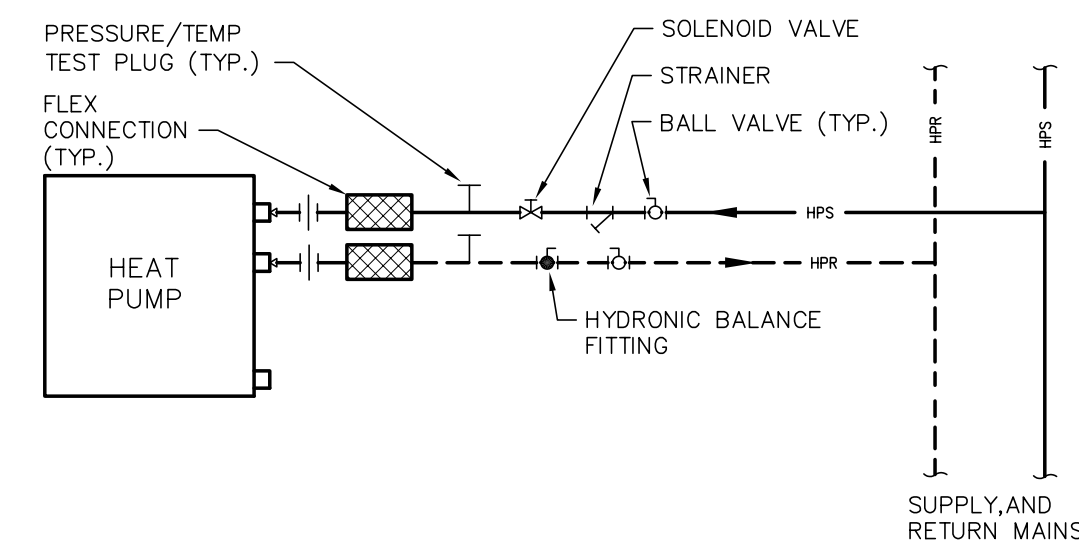
DUCTWORK PARALLEL FLOW BRANCH DETAIL
NO SCALE



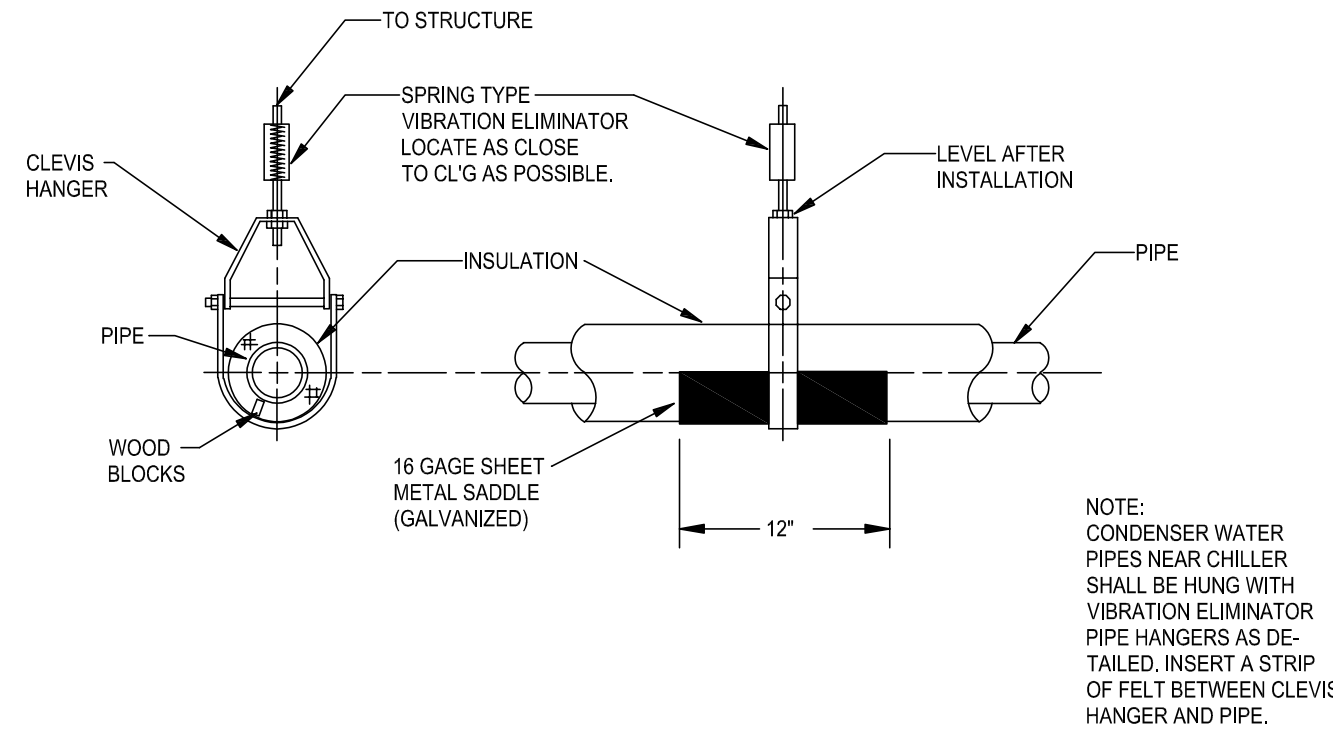
CONDENSATE DRAIN TRAP PIPING DETAIL - RTU
NO SCALE



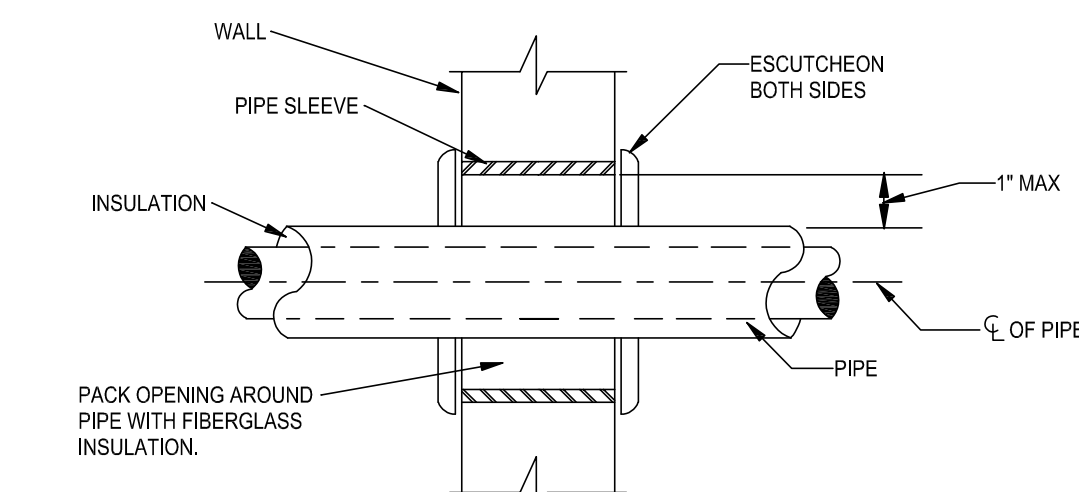
BASE MOUNTED PUMP PIPING DETAIL
NO SCALE



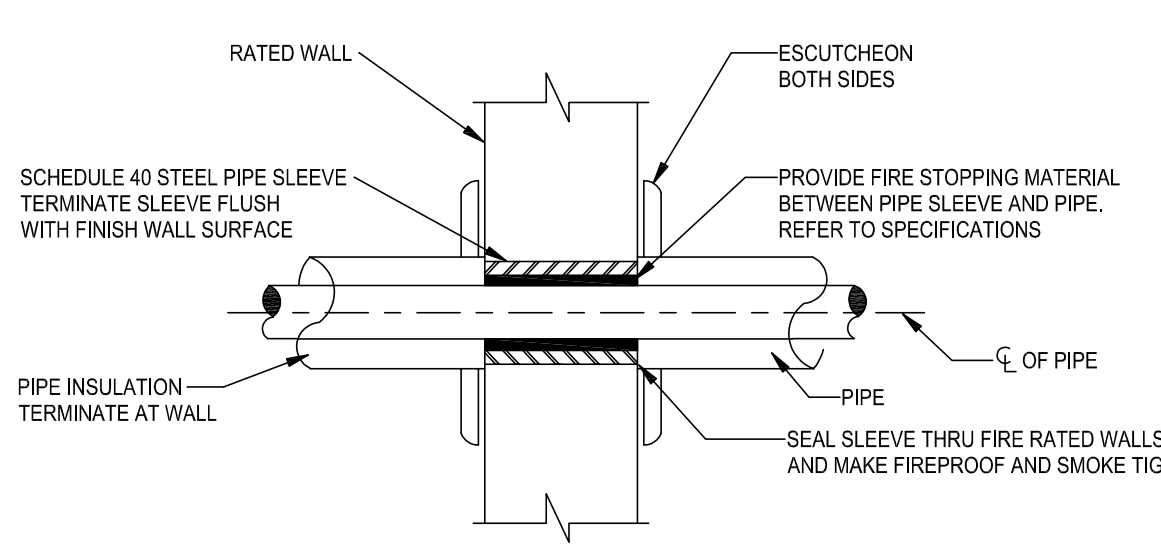
HEAT PUMP PIPING DETAIL
NO SCALE



PIPE CLEVIS HANGER DETAIL
NO SCALE



PIPE SLEEVE DETAIL
NO SCALE



PIPE SLEEVE THRU RATED WALL DETAIL
NO SCALE

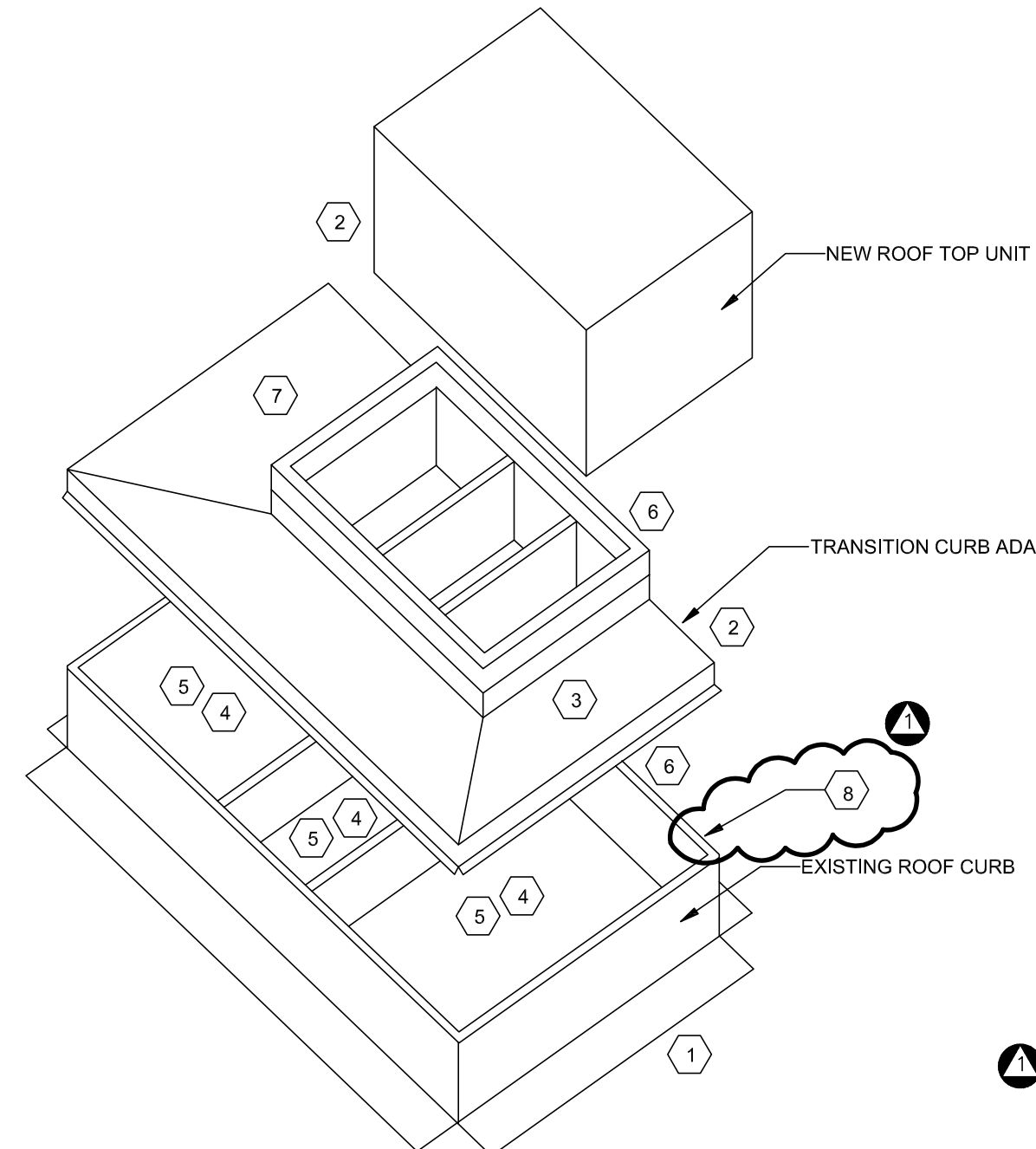
NOTES FOR TRANSITION CURB ADAPTER INSTALLATION

GENERAL NOTES:

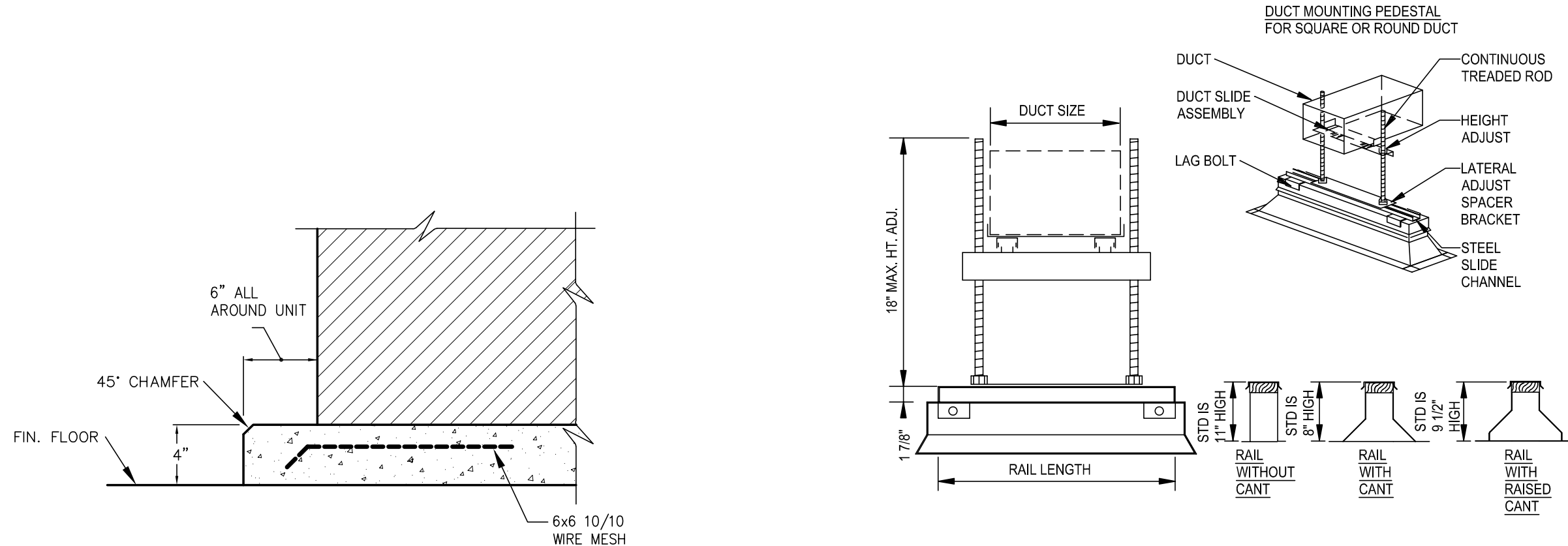
- ADAPTER DETAILS VARY SLIGHTLY FROM MANUFACTURER TO MANUFACTURER. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION WITH THE ADAPTER DETAILS PROVIDED BY THE MANUFACTURER OF THE ROOFTOP UNIT PROVIDED.
- REFER TO SPECIFICATIONS FOR IN-CURB ACOUSTIC TREATMENT.
- ANY SUPPLEMENTAL STEEL REQUIRED FOR THE SUPPORT OF THE ROOFTOP UNIT SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR.
- CONTRACTOR TO EXTEND CONDENSATE DRAIN TO DISCHARGE ONTO SPLASH PAD ON ROOF. DISCHARGE DRAINING ONTO ADAPTER CURB IS NOT ACCEPTABLE.

CODED NOTES:

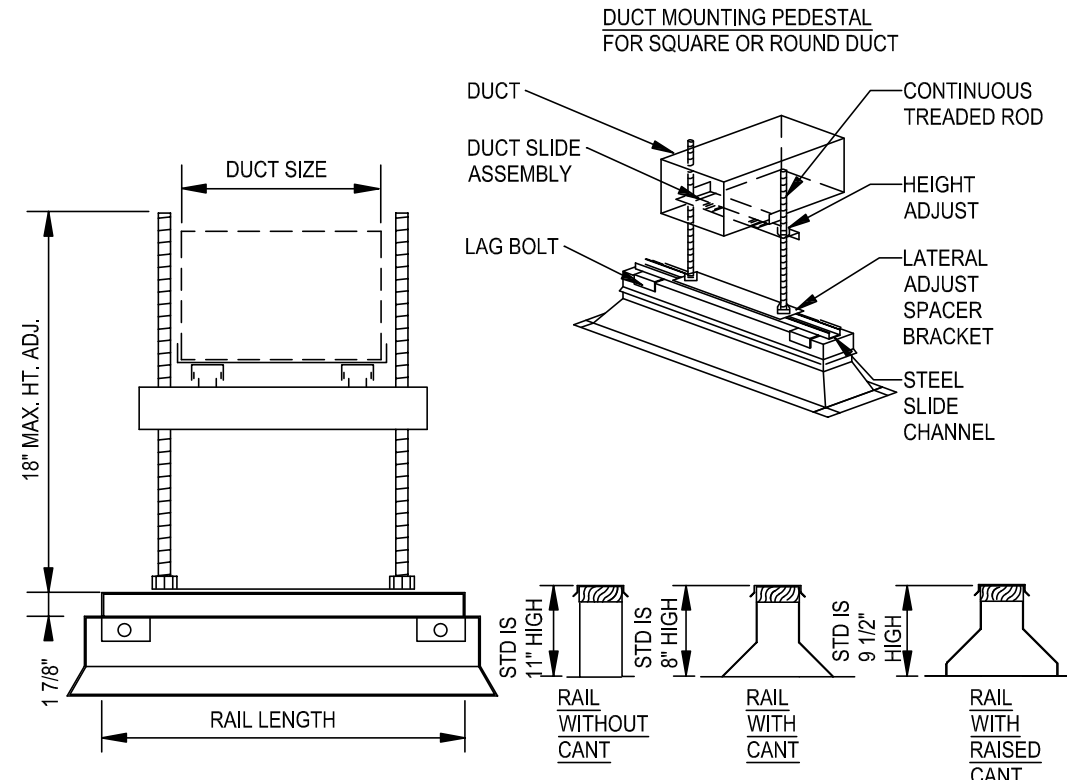
- ROOF DECK, (BY G.C.)
- ATTACH TRANSITION TO EXISTING CURB AND TRANSITION TO ROOFTOP UNIT.
- SUPPLEMENTAL STEEL AS REQUIRED (BY STRUCTURAL STEEL INSTALLER.)
- PATCH EXISTING OPENINGS IN THE ROOF DECK WITHIN THE ROOF CURB AND MAKE SURE THAT THE ROOF DECK IS TIGHT TO THE DUCTWORK PENETRATIONS INTO THE BUILDING. FILL ALL GAPS BETWEEN DUCTWORK AND DECK WITH WEST SYSTEM BRAND EPOXY (OR EQUAL) THICKENED WITH A FAIRING FILLER.
- ALL VOID AREAS WITHIN THE CURB AND OUTSIDE OF THE DUCTWORK SHALL BE FILLED WITH MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS IN-CURB ACOUSTIC TREATMENT REQUIREMENTS.
- PROVIDE CLOSED-CELL SPONGE WEATHER-SEAL BETWEEN THE BOTTOM OF THE TRANSITION CURB ADAPTER AND THE TOP OF THE EXISTING ROOF CURB, ALONG WITH AROUND ALL SA AND RA DUCT PASSAGES.
- TRANSITION CURB SHALL BE DOUBLE WALL WITH 2" THICK INSULATION.
- THE EXISTING CURB HAS INTEGRAL POINT LOADED SPRING VIBRATION ISOLATORS. THESE ISOLATORS SHALL BE FIELD ADJUSTED BY THE CONTRACTOR AS NEEDED AFTER THE ADAPTER CURB AND NEW UNIT HAS BEEN INSTALLED.



ROOF CURB - TRANSITION ADAPTER DETAIL
NO SCALE



CONCRETE PAD DETAIL
NO SCALE



ROOF MOUNTED DUCT SUPPORT DETAIL
NO SCALE

SIZE CHART	
DUCT SIZE	EQUIPMENT RAIL LENGTH
UP TO 12"	2'-0"
12 1/4" TO 24"	3'-0"
24 1/4" TO 36"	4'-0"
36 1/4" TO 48"	5'-0"
48 1/4" TO 60"	6'-0"
60 1/4" TO 72"	7'-0"
72 1/4" TO 84"	8'-0"

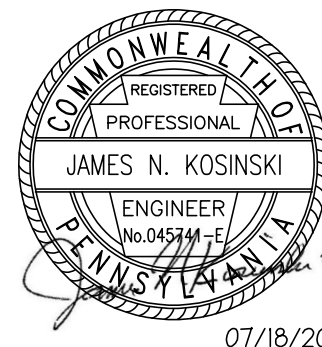
NOTE: WHEN DUCT IS INSULATED, TOTAL OUTSIDE DIMENSIONS OF DUCT & COVERING SHOULD BE USED TO DETERMINE SIZE OF SLIDE ASSEMBLY



Grove City Area School District
511 Highland Avenue
Grove City, PA 16127



HVAC Equipment Replacements and Upgrades



07/18/2025

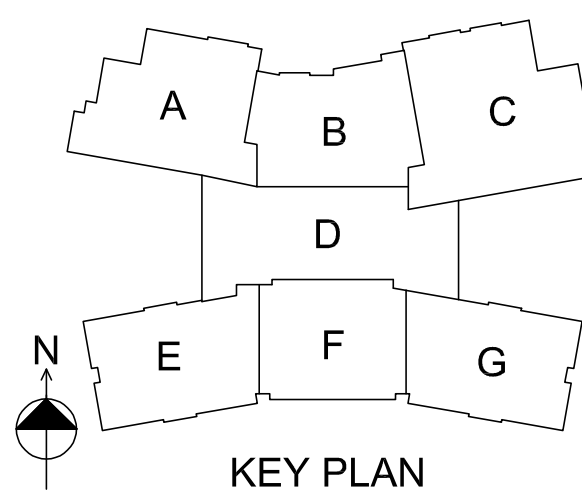
Grove City Area Middle School

100 Middle School Drive
Grove City, PA 16127

CONSTRUCTION DOCUMENTS

ADDENDUM 1

REVISIONS



SCALE: AS NOTED
DRAWN BY: JP
CHECKED BY: MC

DATE: 07/18/2025

DETAILS - HVAC

H.511

DRAWING NUMBER

LUGAILA MECHANICAL, INC.
1 Rutgers Road
Pittsburgh, PA 15205



Phone: (412) 920-1330
Fax: (412) 920-1332

REQUEST FOR INFORMATION

To:	<u>Tower Engineering</u>	R.F.I. No.	<u>1</u>
	<u>115 Evergreen Heights Drive</u>	Date	<u>7/24/2025</u>
	<u>Suite 400, Pittsburgh, PA 15229</u>	Job Name:	<u>Grove City MS</u>
		Job No:	<u>TP25113</u>
From:	<u>Tim Poling</u>	Date Information Required	<u>ASAP</u>

Subject: Curb Adapters
Reference Drawings: _____

Problem Description:

<input type="checkbox"/> Information not shown on contract documents	<input type="checkbox"/> Vendor Submittal
<input checked="" type="checkbox"/> Interpretation of contract requirements	<input type="checkbox"/> Construction Schedule
<input type="checkbox"/> Conflict in contract requirements	<input type="checkbox"/> Coordination Problem

Per the coded notes on H.221, we are to re-use the existing vibration isolation for the new RTUs. Per the
curb adapter detail on H.511, the vibration isolation is to be moved to the top of the curb adapter.

Existing vibration isolation can not be modified to fit a different size curb nor is it recommended as isolation
is designed per size and weight of the units they support. Please clarify.

Interim Action Planning ☒ Holding pending reply
☐ Proceeding as follows:

Reply:

The existing curb has integral point loaded spring vibration isolators. These isolators can be field adjusted
by the contractor as needed after the adapter curb and new unit have been installed.

The detail on H.511 will be updated to reflect this.

LUGAILA MECHANICAL, INC.
1 Rutgers Road
Pittsburgh, PA 15205



Phone: (412) 920-1330
Fax: (412) 920-1332

REQUEST FOR INFORMATION

To: Tower Engineering
115 Evergreen Heights Drive
Suite 400, Pittsburgh, PA 15229

From: Tim Poling

R.F.I. No. 2
Date 7/24/2025
Job Name: Grove City MS
Job No: TP25113
Date Information Required ASAP

Subject: Structual Steel
Reference Drawings:

Problem Description:

<input type="checkbox"/> Information not shown on contract documents	<input type="checkbox"/> Vendor Submittal
<input checked="" type="checkbox"/> Interpretation of contract requirements	<input type="checkbox"/> Construction Schedule
<input type="checkbox"/> Conflict in contract requirements	<input type="checkbox"/> Coordination Problem

Please clarify if additional support steel is needed or required for the new RTUs. If so, please provide a
detail of what is needed and clarify which trade is responsible for the work.

Interim Action Planning ☒ Holding pending reply
☐ Proceeding as follows:

Reply:

Additional structural steel supports are not anticipate. The new rooftop units weigh less than the existing
ones. HC shall coordinate with the provider of the curb adapters to make sure that the manufacturer does
not require some type of supplemental steel for the equipment that rests on top of the adapters.

LUGAILA MECHANICAL, INC.
1 Rutgers Road
Pittsburgh, PA 15205



Phone: (412) 920-1330
Fax: (412) 920-1332

REQUEST FOR INFORMATION

To: Tower Engineering
115 Evergreen Heights Drive
Suite 400, Pittsburgh, PA 15229

From: Tim Poling

R.F.I. No. 3
Date 7/24/2025
Job Name: Grove City MS
Job No: TP25113
Date Information Required ASAP

Subject: Temporary Heat
Reference Drawings: _____

Problem Description:

<input type="checkbox"/> Information not shown on contract documents	<input type="checkbox"/> Vendor Submittal
<input checked="" type="checkbox"/> Interpretation of contract requirements	<input type="checkbox"/> Construction Schedule
<input type="checkbox"/> Conflict in contract requirements	<input type="checkbox"/> Coordination Problem

1. Please clarify if temporary heaters provided on H.411 is the only temporary heat required on the project.

2. Please clarify if the locations shown on the H drawings for the temporary heaters provided on H.411 have have adiquit power & receptacles near by for them to be plugged in and no additonal electrical work is required.

3. Please clarify if temporary heaters provided on H.411 are to be rented or purchased.

Interim Action Planning ☒ Holding pending reply
☐ Proceeding as follows:

Reply:

1. The temporary heaters are the only temporary heat required on the project. The expectation is that for most of the construction, rest of the heat pump system can remain active and circulate water through the piping to the heat pumps that that are not being replaced, and that these units will condition the rest of the building.

2. The requirements for the electrical work for the temporary heaters are explained on the electrical drawings.

3. The expectation is that the temporary heaters are to be rented.