

# GYMNASIUM AND OFFICE HVAC RENOVATIONS AT THE GAUNTLETT CENTER

20 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

FOR  
MARPLE NEWTOWN SCHOOL DISTRICT  
40 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

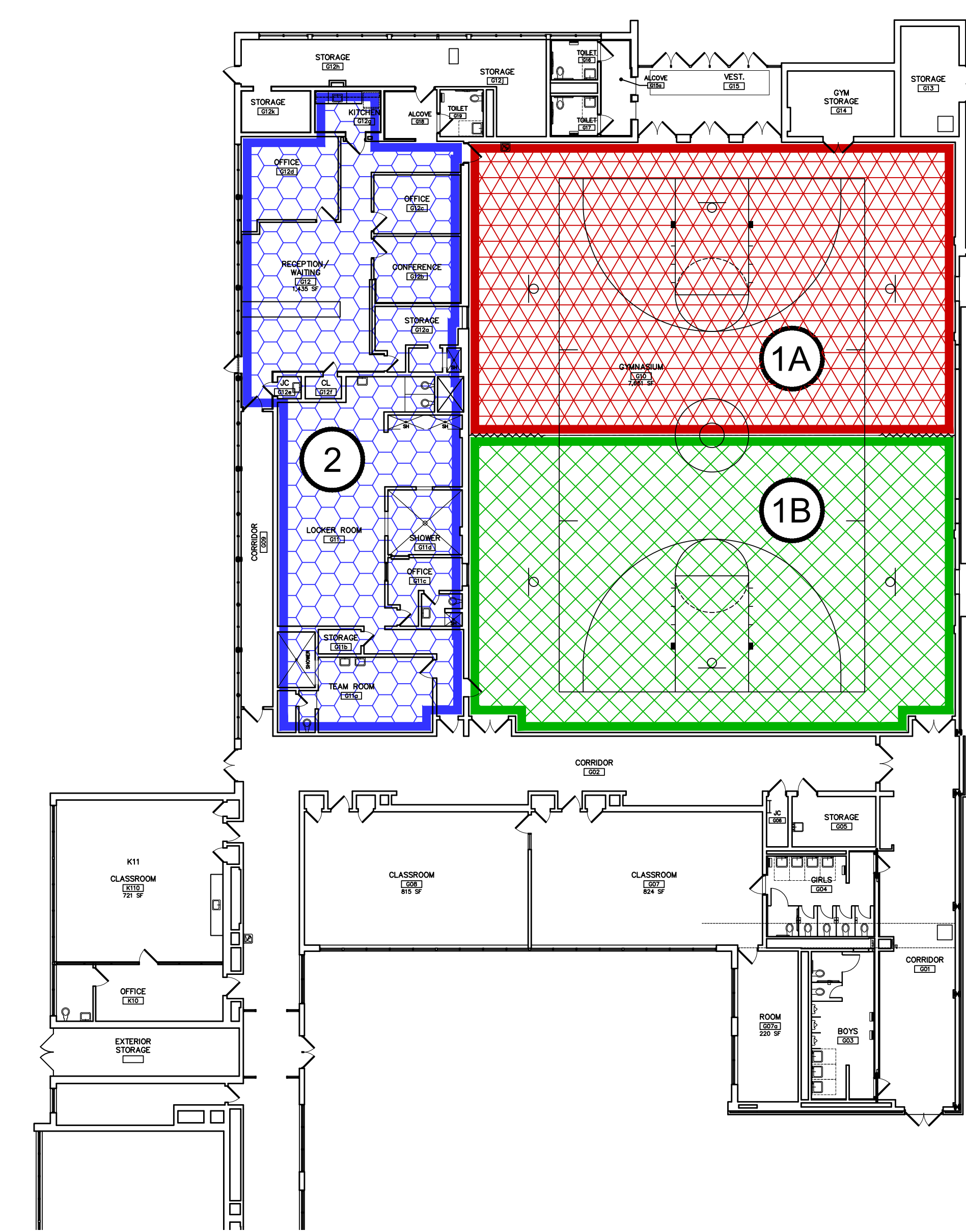


**BMA** BONNETT MEDICA ASSOCIATES INCORPORATED  
ARCHITECTS • PLANNERS • ENGINEERS • PROJECT MANAGERS  
1242 WEST CHESTER PIKE • SUITE 11 • WEST CHESTER, PA 19382 • TELEPHONE 610-368-6678

DRAWING LIST	ABBREVIATIONS	DRAWING SYMBOLS	BUILDING DATA																																																																																																																																																								
<p>G 001 COVER SHEET</p> <p><b>ARCHITECTURAL</b></p> <p>PH100 PHASING PLAN</p> <p>A 100 PARTIAL ROOF PLAN AND DETAILS – UNIT G</p> <p>A 110 REFLECTED CEILING PLAN – UNIT G</p> <p>A 200 GYMNASIUM INTERIOR ELEVATIONS – UNIT G</p> <p><b>STRUCTURAL</b></p> <p>S 1 (E) ROOF FRAMING PLAN –(N) RTU SUPPORT FRAMING</p> <p>S 2 SECTIONS, DETAILS &amp; NOTES</p> <p><b>MECHANICAL</b></p> <p>H 001 HVAC NOTES, SCHEDULES AND DETAILS – BASE BID</p> <p>H 002 HVAC NOTES, SCHEDULES AND DETAILS – ALTERNATE BID</p> <p>H 003D HVAC DEMOLITION PLAN – BASE BID</p> <p>H 004D HVAC DEMOLITION PLAN – ALTERNATE BID</p> <p>H 101 HVAC NEW WORK PLAN – BASE BID</p> <p>H 102 HVAC NEW WORK PLAN – ALTERNATE BID</p> <p>H 201 HVAC ROOF PLAN – BASE BID</p> <p>H 202 HVAC ROOF PLAN – ALTERNATE BID</p> <p><b>ELECTRICAL</b></p> <p>E 100 ELECTRICAL LEGEND &amp; ABBREVIATIONS</p> <p>E 101 ELECTRICAL NEW WORK PLAN – BASE BID</p> <p>E 102 ELECTRICAL NEW WORK PLAN – ALTERNATE BID</p>	<p><b>ABBREVIATIONS</b></p> <table border="0"> <tr> <td>A.V. – AUDIO VISUAL</td> <td>E – EXISTING</td> <td>M – MEN</td> <td>SECT – SECTION</td> </tr> <tr> <td>ACT – ACOUSTICAL CEILING TILE</td> <td>E.F. – EXHAUST FAN</td> <td>MAS – MASONRY</td> <td>SGT – STRUCTURAL GLAZED TILE</td> </tr> <tr> <td>ADMIN – ADMINISTRATION</td> <td>EIFS – EXTERIOR FINISHING AND INSULATION SYSTEM</td> <td>M.O. – MASONRY OPENING</td> <td>SM – SIMILAR</td> </tr> <tr> <td>AFF – ABOVE FINISHED FLOOR</td> <td>EJ – EXPANSION JOINT</td> <td>MAINT – MAINTENANCE</td> <td>SPECS – SPECIFICATIONS</td> </tr> <tr> <td>ALUM – ALUMINUM</td> <td>EL – ELEVATION</td> <td>MANF – MANUFACTURER</td> <td>SP INSUL. – SPRAYED FOAM INSULATION</td> </tr> <tr> <td>AP – ACCESS PANEL</td> <td>ELC – ELECTRICAL</td> <td>MRBL – MARBLE</td> <td>SQ – SQUARE</td> </tr> <tr> <td>APPROX – APPROXIMATELY</td> <td>EQ – EQUAL</td> <td>MAT – MATERIAL</td> <td>SF – SQUARE FOOT</td> </tr> <tr> <td>B&amp;G – BOYS AND GIRLS</td> <td>ETC – ETCETERA</td> <td>MAX – MAXIMUM</td> <td>SQ. 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PA UNIFORM CONSTRUCTION CODE</p> <p>– 2018 INTERNATIONAL CODES AND CHAPTER 11 AND APPENDIX E OF THE 2018 INTERNATIONAL BUILDING CODE</p> <p>– ICC A117.1–2009</p> <p><b>BUILDING DESCRIPTION &amp; CRITERIA</b></p> <p>USE : GAUNTLETT CENTER COMMUNITY CENTER G &amp; K WINGS – EDUCATIONAL (E)</p> <p><b>TYPE OF CONSTRUCTION :</b> III B</p> <p><b>NUMBER OF STORIES :</b> 1 STORY</p> <p><b>GROSS FLOOR AREA :</b></p> <table border="0"> <tr> <td>COMMUNITY CENTER G &amp; K WINGS</td> <td>26,118 SF</td> </tr> <tr> <td>REC TOILET ROOM ALTERATIONS</td> <td>1,756 SF (6.7%)</td> </tr> </table> <p><b>LEVEL OF ALTERATIONS :</b> LEVEL 2 BUILDING IS NOT SPRINKLERED</p>	COMMUNITY CENTER G & K WINGS	26,118 SF	REC TOILET ROOM ALTERATIONS	1,756 SF (6.7%)
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**GENERAL NOTES**

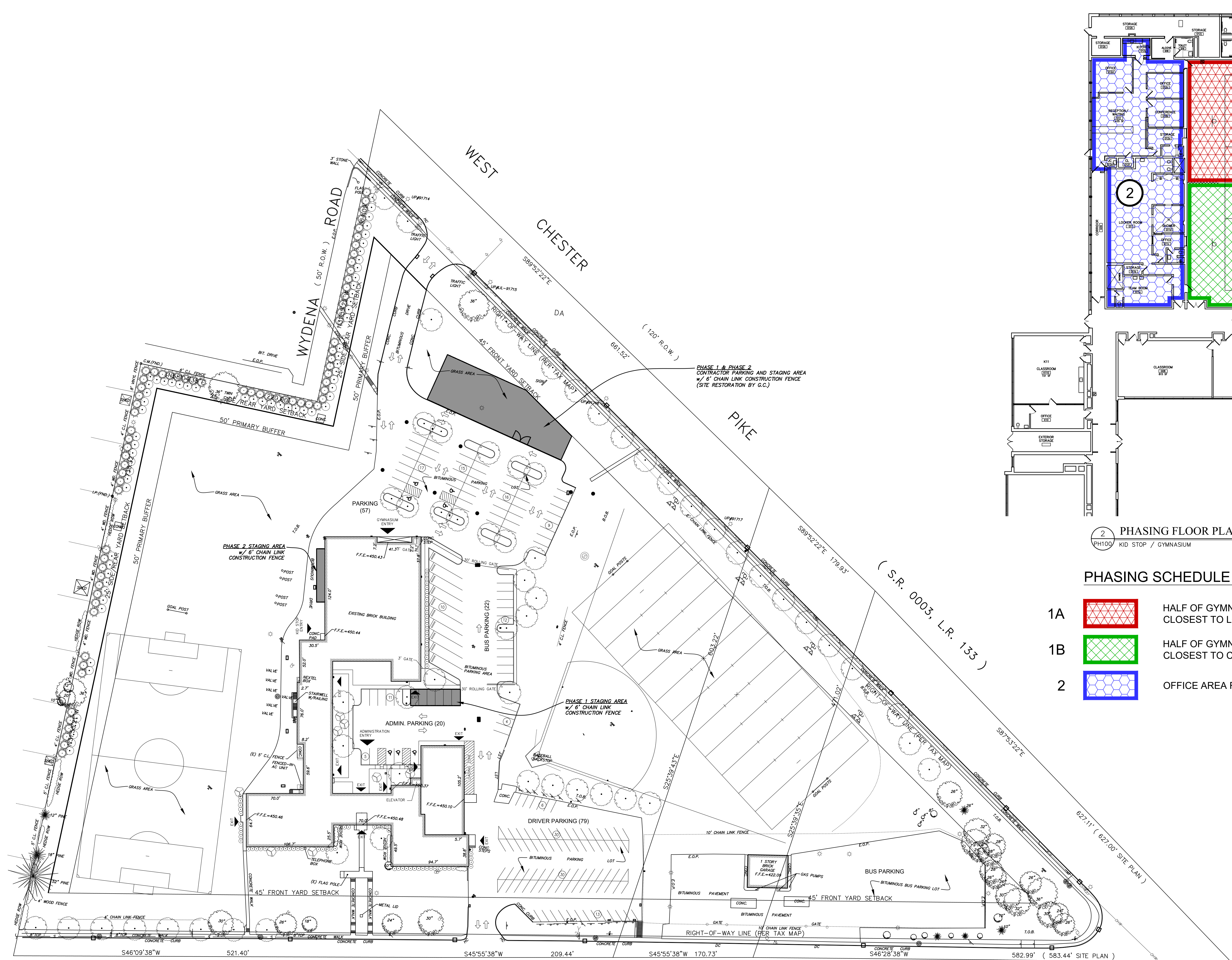
- DO NOT SCALE DRAWINGS TO ESTABLISH DIMENSIONS.
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2 PHASING FLOOR PLAN  
PH100 KID STOP / GYMNASIUM 1/16" = 1'-0"

**PHASING SCHEDULE LEGEND**

- 1A HALF OF GYMNASIUM CLOSEST TO LOBBY
- 1B HALF OF GYMNASIUM CLOSEST TO CLASSROOMS
- 2 OFFICE AREA RENOVATIONS



1 PHASING SITE PLAN  
PH100 1" = 50'-0"

PETER M. MEDICA RA016195  
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DRAWING NAME:  
- SITE PLAN  
- FLOOR PLAN

DATE:  
01/30/2026

SCALE:  
AS NOTED

DRAWN BY:  
dmc

CHECKED BY:  
PMM

PROJECT NUMBER:  
25113.00

CADD FILE:  
25113.00ph100.dwg

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AS NOTED

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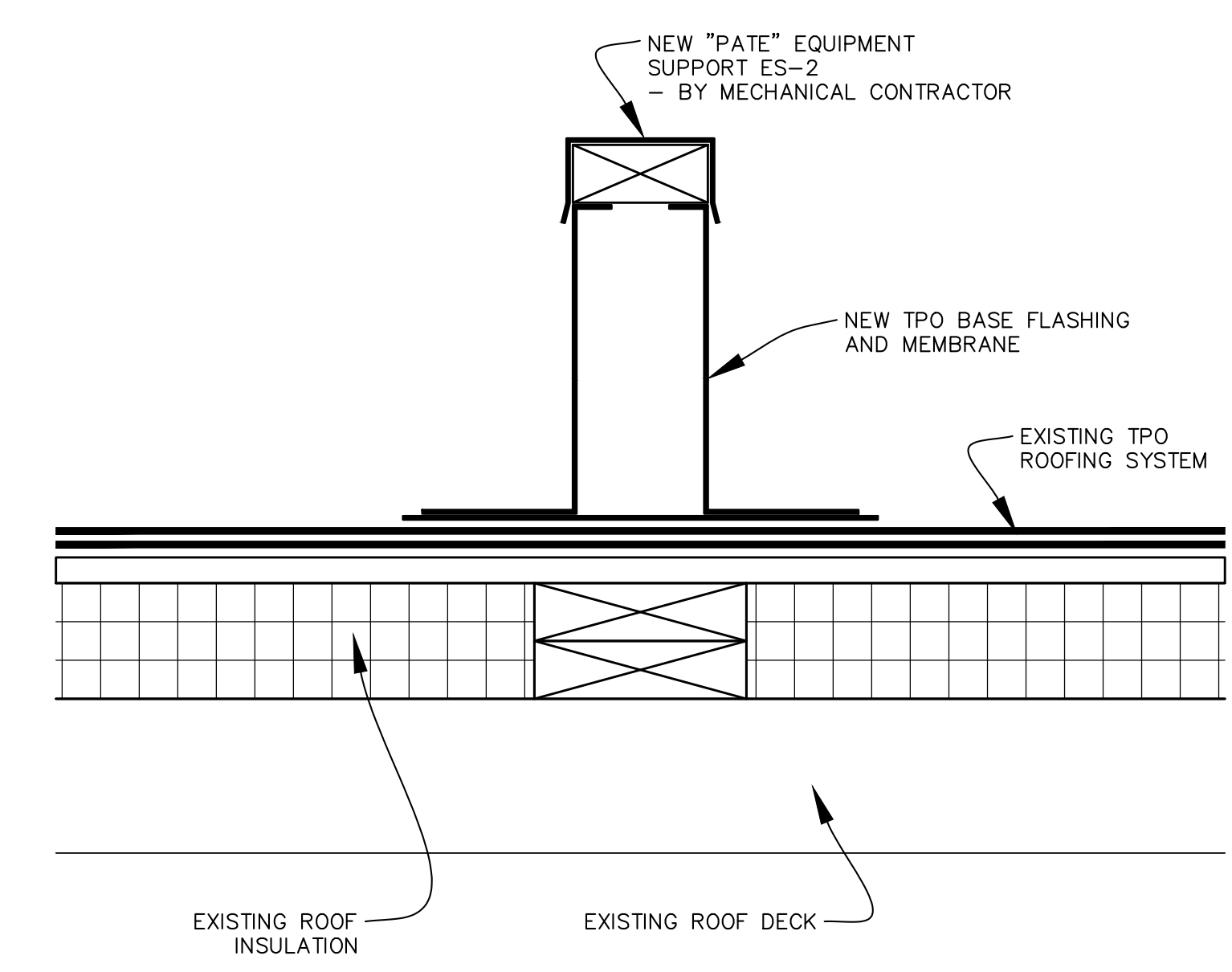
CHECKED BY:  
PMM

PROJECT NUMBER:  
25113.00

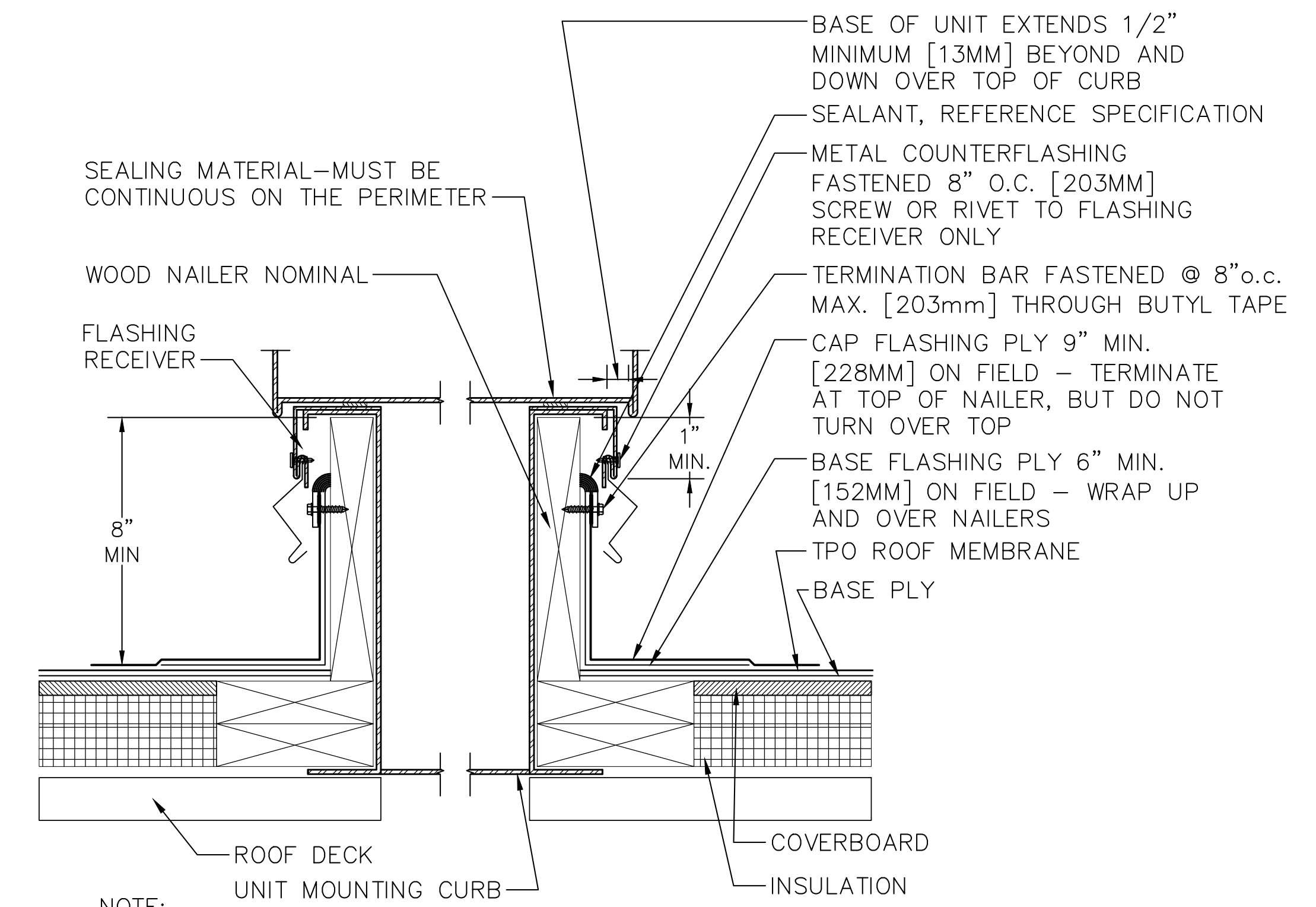
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DRAWING NUMBER:

**A100**

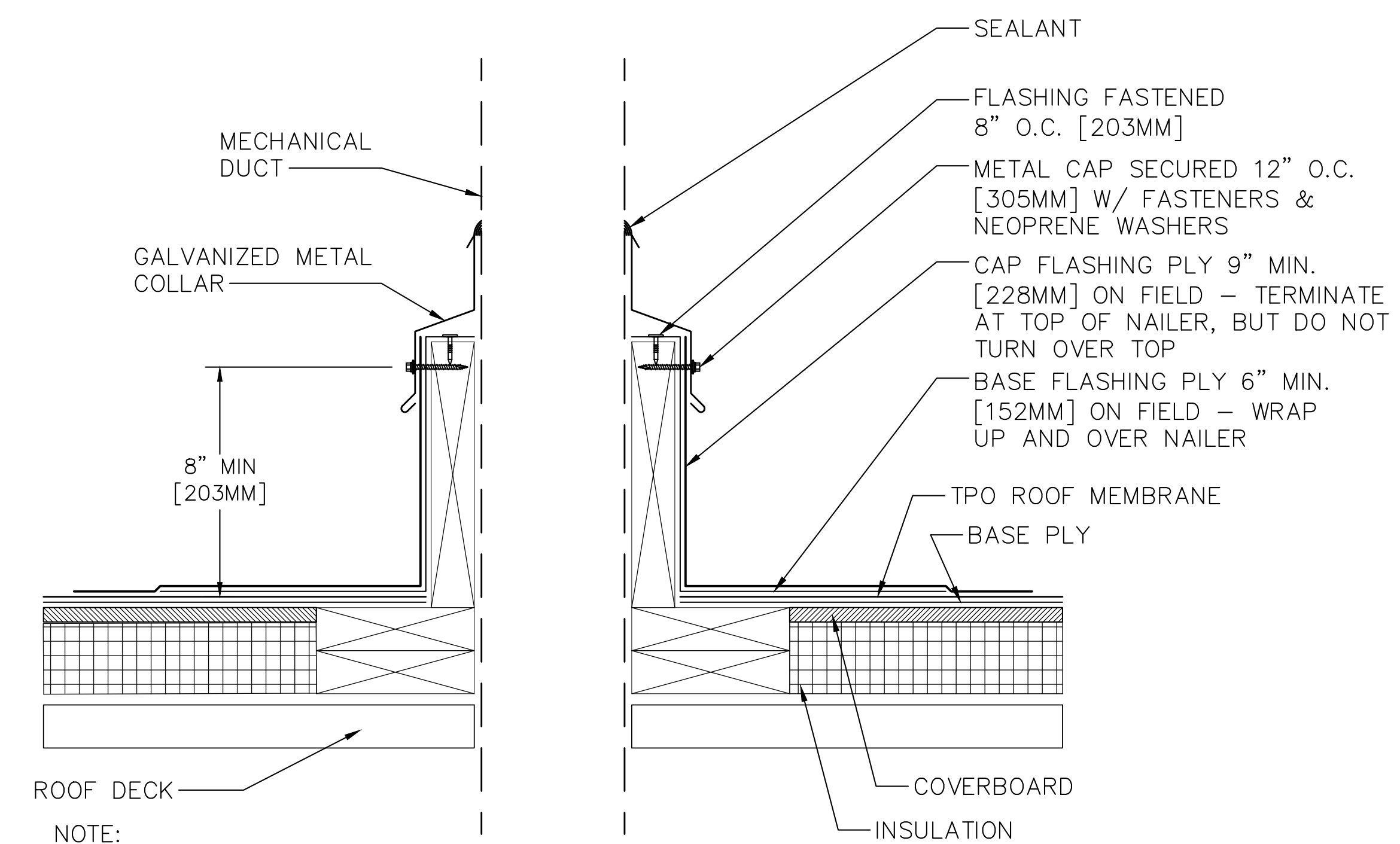


**2 EQUIPMENT SUPPORT**  
A100 NTS



NOTE:  
REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

**3 TYPICAL ROOF DETAIL**  
A100 AT MECHANICAL UNITS 3" = 1'-0"



NOTE:  
REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION /COVER BOARD TYPE AND ATTACHMENT METHOD.

**4 DUCT CURB DETAIL**  
A100 3" = 1'-0"

**CONSTRUCTION NOTES:**

- ROOFTOP MECHANICAL UNIT CURBS SHALL BE PROVIDED BY THE HVAC CONTRACTOR.
- WOOD BLOCKING ASSOCIATED WITH MOUNTING CURB TO DECK / STRUCTURE SHALL BE PROVIDED BY THE HVAC CONTRACTOR.
- WOOD BLOCKING REQUIRED AT THE PERIMETER OF THE EQUIPMENT CURBS ASSOCIATED WITH ROOFING SHALL BE PROVIDED BY G.C.
- HVAC CONTRACTOR SHALL COORDINATE DIMENSIONS AND LOCATIONS OF ALL MECHANICAL EQUIPMENT, CURBS, VENTS, PIPE PENETRATIONS, ETC. WITH THE GENERAL CONTRACTOR.
- BASE BID - THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY WEATHER PROTECTION AT ALL ROOF PENETRATIONS FOR NEW EQUIPMENT AND CURBS.
- ALTERNATE BID No. 1 - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY WEATHER PROTECTION AT ALL ROOF PENETRATIONS FOR NEW EQUIPMENT AND CURBS.

NEW EQUIPMENT CURB BY M.C. FOR RTU-2. G.C. TO SAWCUT OPENINGS, PROVIDE STRUCTURAL DETAILS, WOOD BLOCKING, TPO FLASHING AND MEMBRANE PATCH SEE 3/A100

G.C. SHALL SAWCUT AND REMOVE E.I.F.S. FRAMING AND CMU FOR NEW DUCT PENETRATING AND COMPLETE OPENING ENCLOSURE PER DETAIL 2/A110

EXISTING ELECTRICAL BOX AND CONDUIT ALONG ROOF TO BE REMOVED BY E.C.

G.C. SHALL SAWCUT ROOF FOR NEW RETURN DUCT. PROVIDE STRUCTURAL DETAILS SEE 4/A100 FOR CURB DETAIL

NEW METAL CATWALK

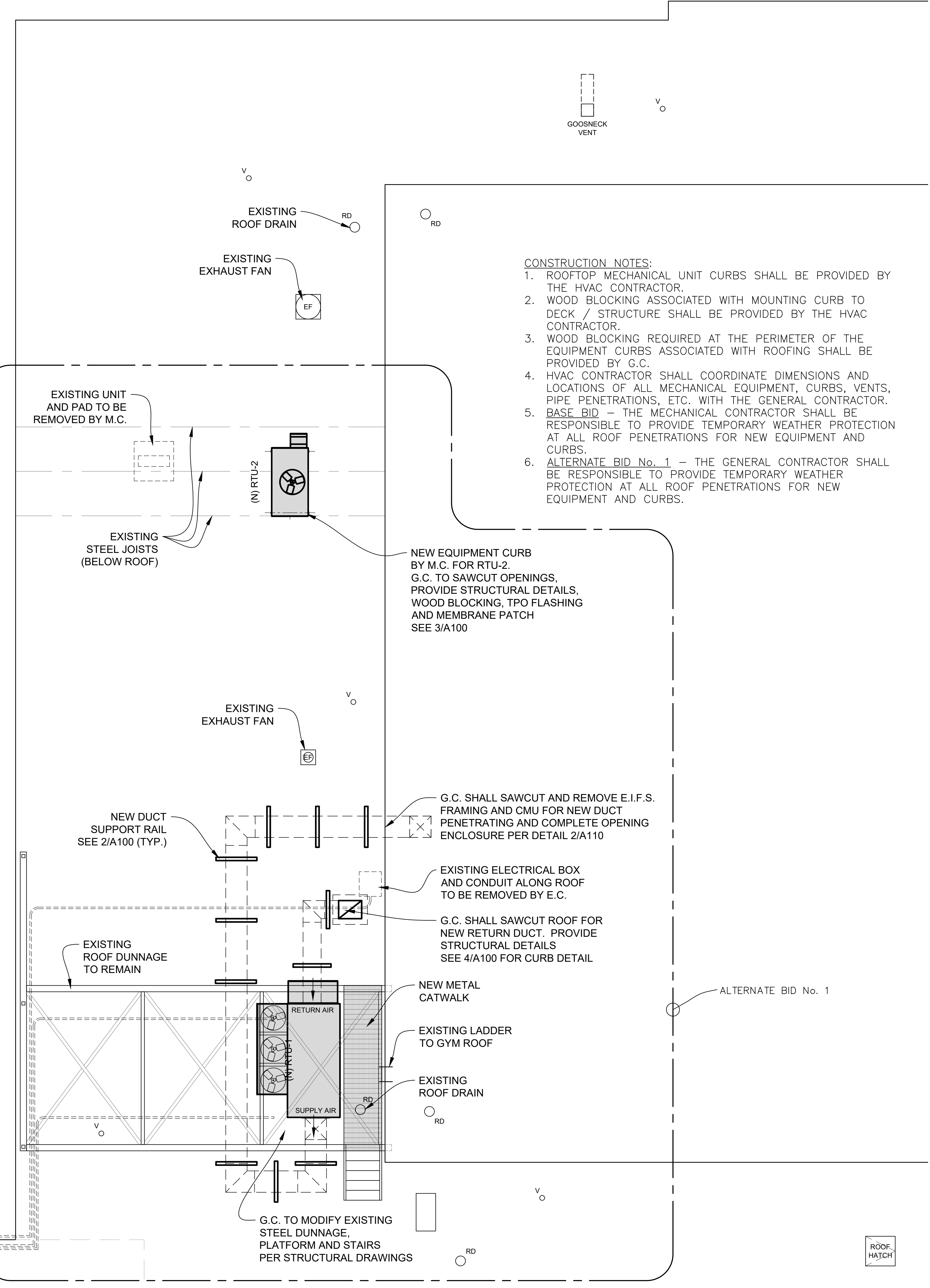
EXISTING LADDER TO GYM ROOF

EXISTING ROOF DRAIN

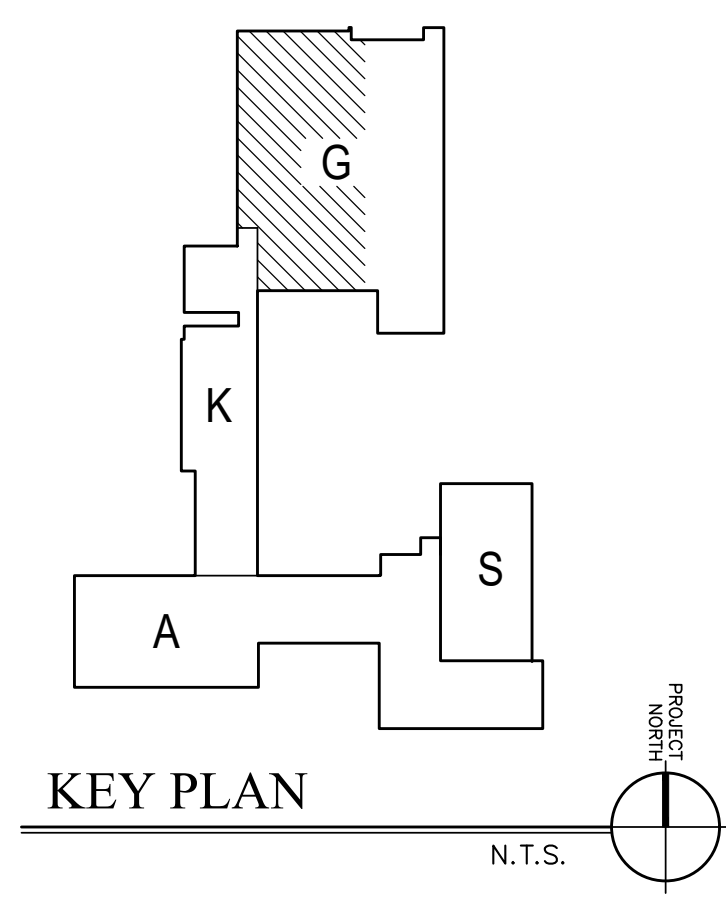
G.C. TO MODIFY EXISTING STEEL DUNNAGE, PLATFORM AND STAIRS PER STRUCTURAL DRAWINGS

ALTERNATE BID No. 1

ROOF MATCH



**1 ROOF PLAN**  
A100 KID STOP / GYMNASIUM 3/16" = 1'-0"



KEY PLAN N.T.S.

**GENERAL NOTES**

- DO NOT SCALE DRAWINGS TO ESTABLISH DIMENSIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

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MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

**BMA**  
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ARCHITECTS • PLANNERS  
ENGINEERS • PROJECT MANAGERS

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WEST CHESTER, PA 19382  
TELEPHONE 610-368-6678

CLIENT:



MAPLE NEWTOWN SCHOOL DISTRICT  
40 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

PROJECT NAME:  
GYMNASIUM AND OFFICE  
HVAC RENOVATIONS  
AT THE GAUNTLETT CENTER

20 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

DRAWING NAME:  
REFLECTED CEILING PLAN,  
WALL SECTION AND  
DETAILS

DATE:  
01/30/2026

SCALE:  
AS NOTED

DRAWN BY:  
dmc

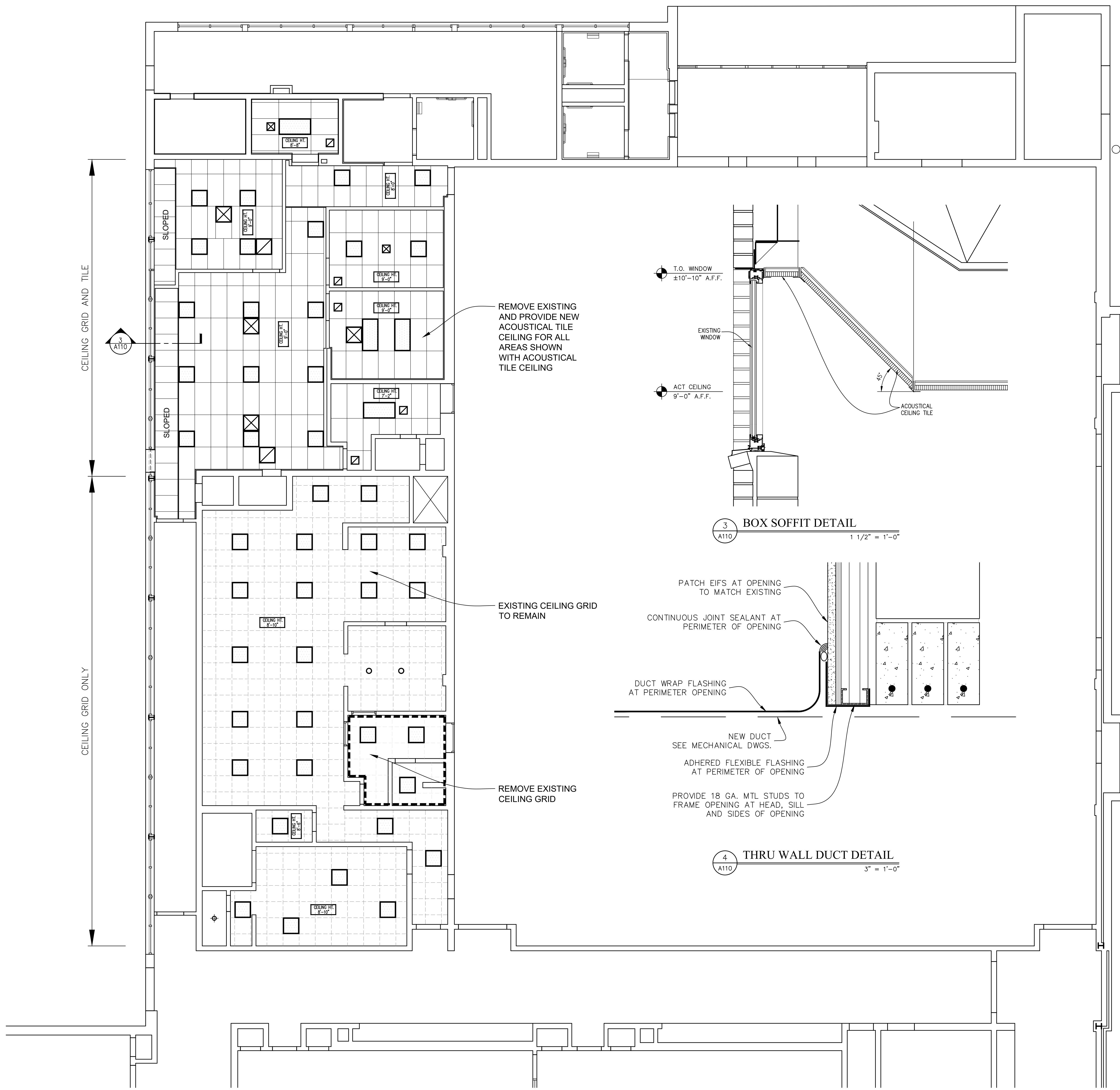
CHECKED BY:  
PMM

PROJECT NUMBER:  
25113.00

CADD FILE:  
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DRAWING NUMBER:

**A110**



CEILING GRID AND TILE

CEILING GRID ONLY

**1 REFLECTED CEILING PLAN**  
A110 KID STOP / GYMNASIUM 3/16" = 1'-0"

T.O. WINDOW  
±10'-10" A.F.F.

ACT CEILING  
9'-0" A.F.F.

REMOVE EXISTING AND PROVIDE NEW ACOUSTICAL TILE CEILING FOR ALL AREAS SHOWN WITH ACOUSTICAL TILE CEILING

EXISTING CEILING GRID TO REMAIN

REMOVE EXISTING CEILING GRID

**3 BOX SOFFIT DETAIL**  
A110 1 1/2" = 1'-0"

PATCH EIFS AT OPENING TO MATCH EXISTING

CONTINUOUS JOINT SEALANT AT PERIMETER OF OPENING

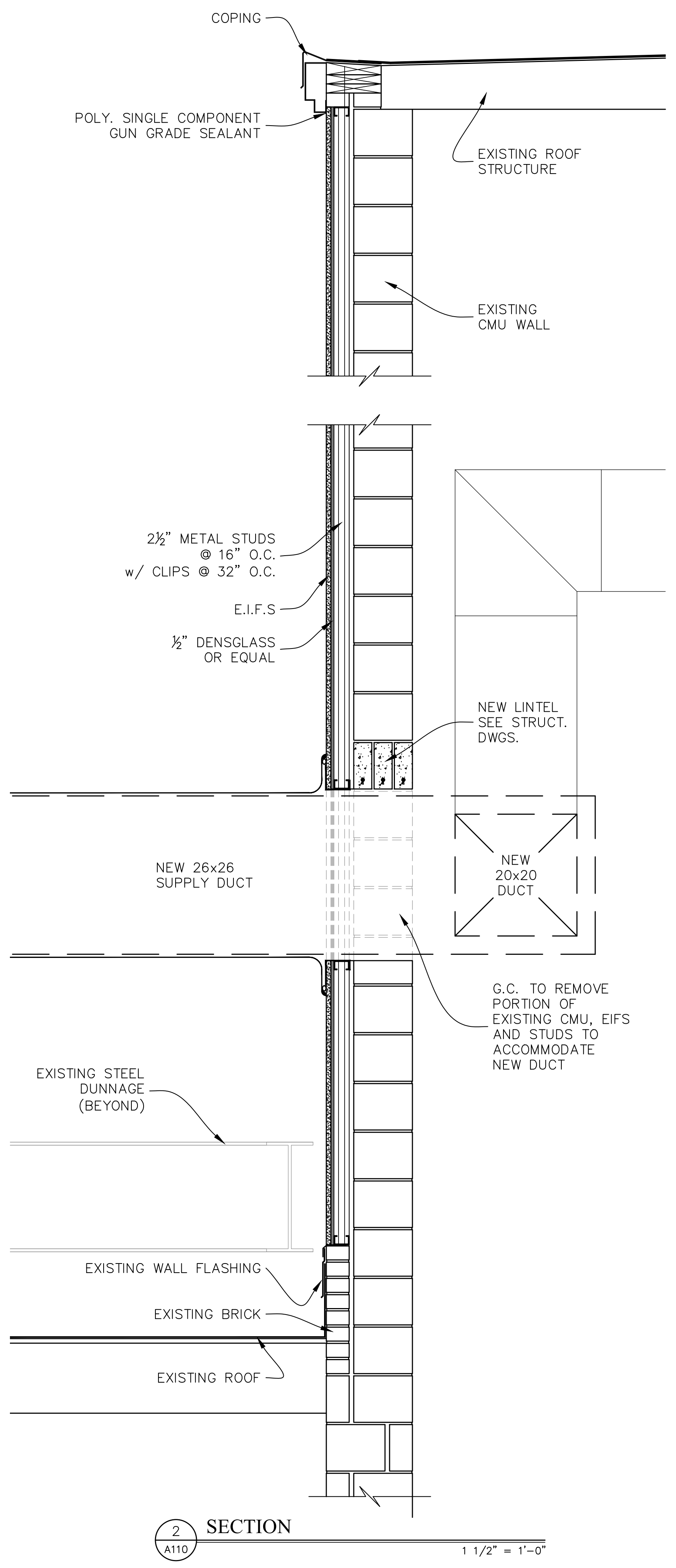
DUCT WRAP FLASHING AT PERIMETER OPENING

NEW DUCT SEE MECHANICAL DWGS.

ADHERED FLEXIBLE FLASHING AT PERIMETER OF OPENING

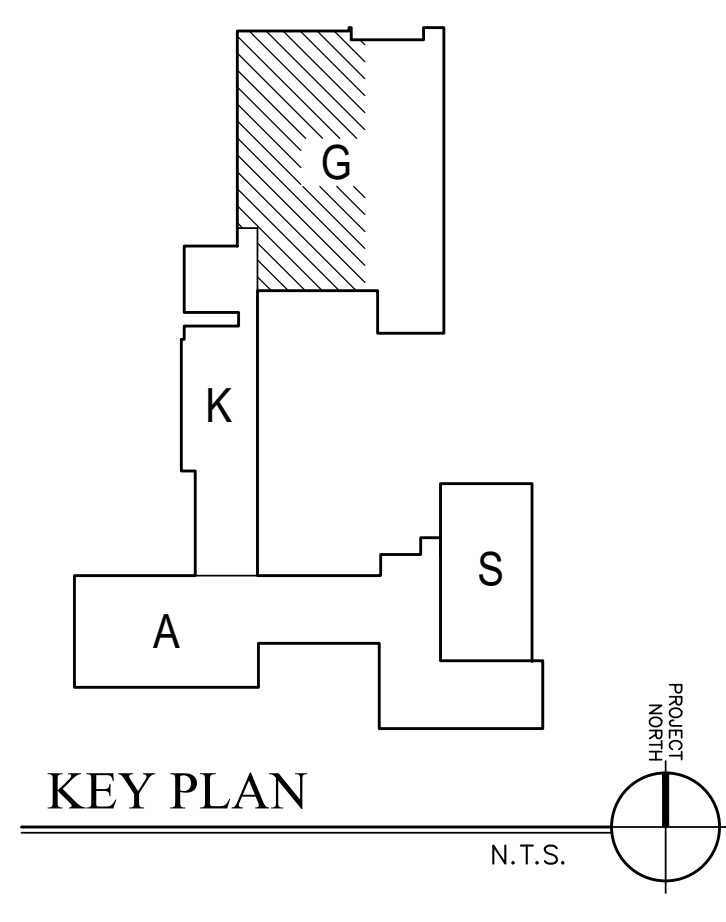
PROVIDE 18 GA. MTL STUDS TO FRAME OPENING AT HEAD, SILL AND SIDES OF OPENING

**4 THRU WALL DUCT DETAIL**  
A110 3" = 1'-0"



**2 SECTION**  
A110 1 1/2" = 1'-0"

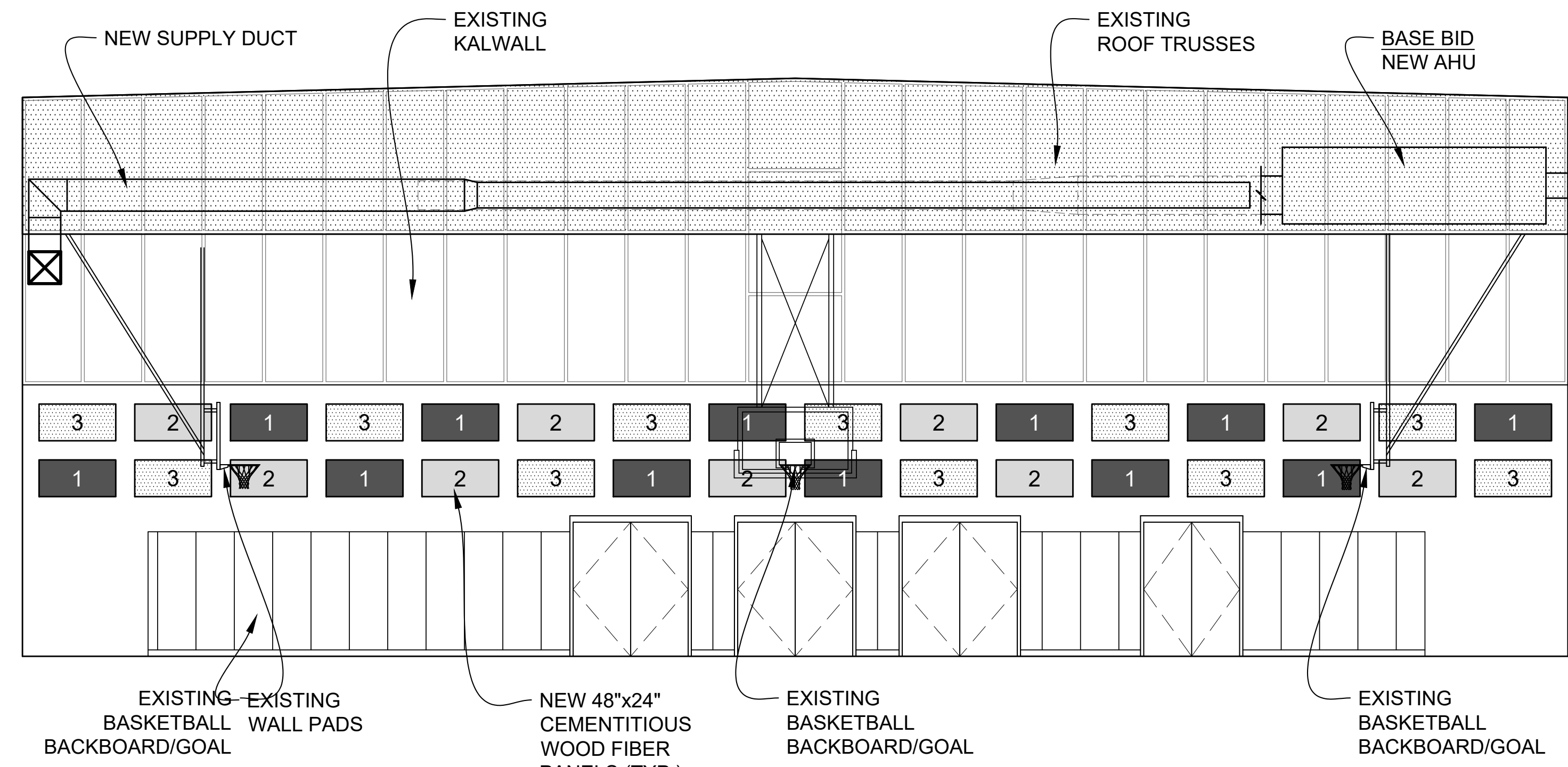
REFLECTED CEILING LEGEND	
	2x4 FLUORESCENT FIXTURE
	2x2 FLUORESCENT FIXTURE
	HVAC SUPPLY DIFFUSER
	HVAC RETURN GRILL
	ACOUSTICAL TILE CEILING SYSTEM
	ACOUSTICAL CEILING SYSTEM GRID ONLY (NO TILES)



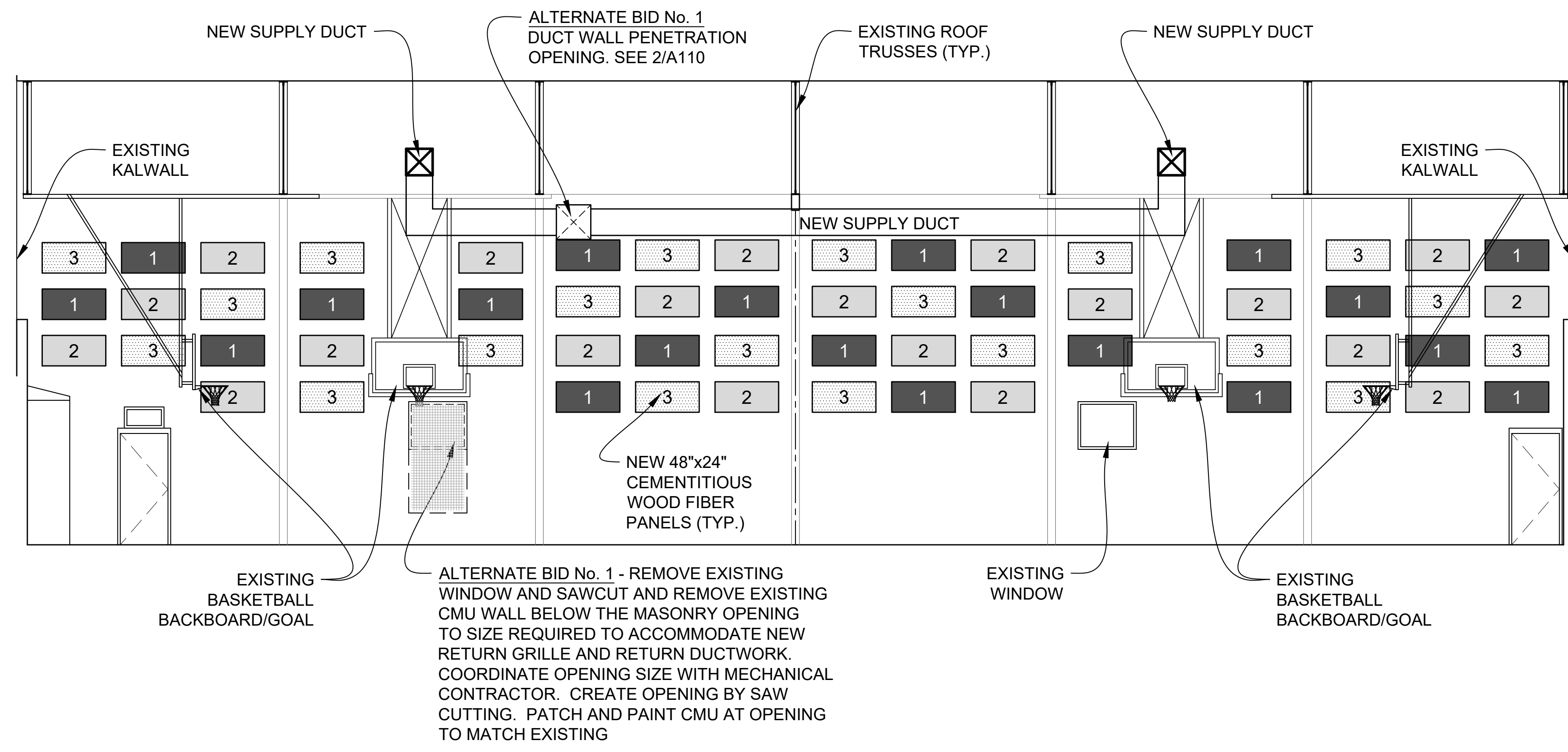
**KEY PLAN**

GENERAL NOTES

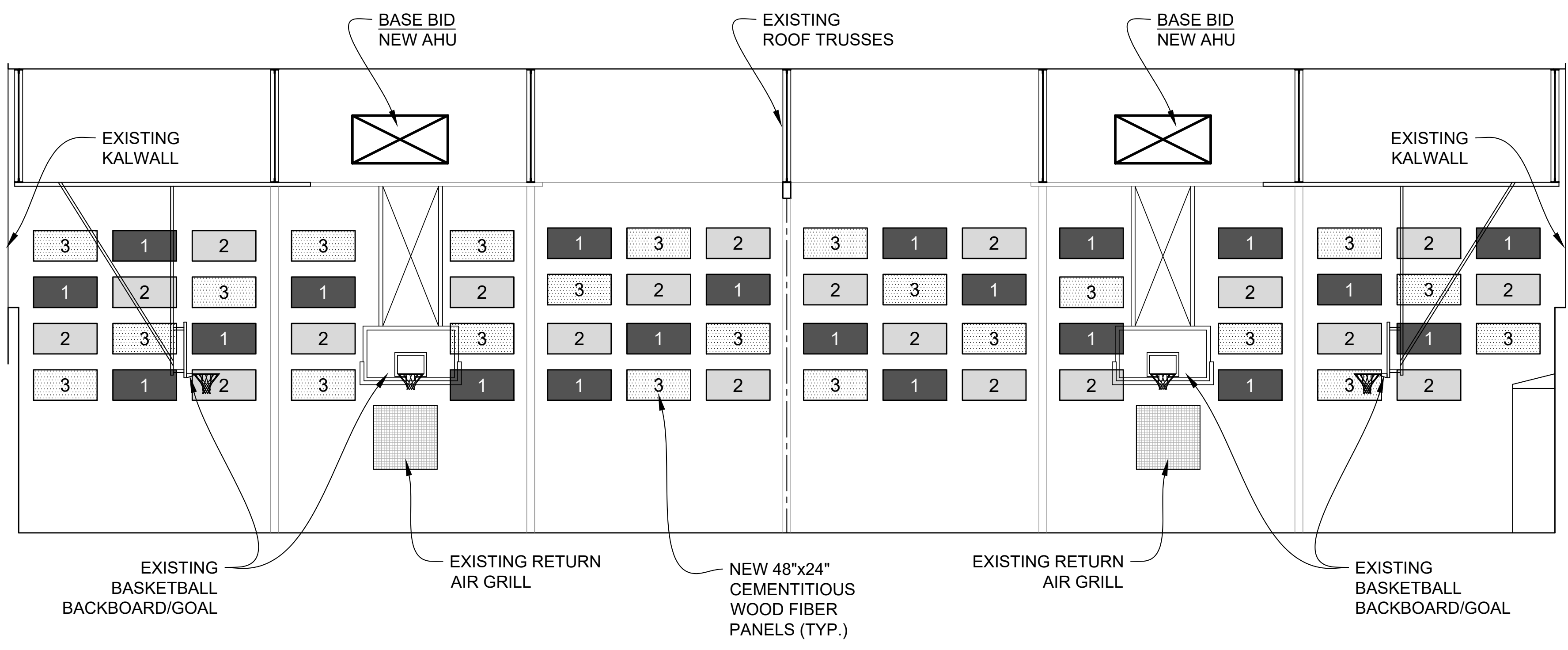
- DO NOT SCALE DRAWINGS TO ESTABLISH DIMENSIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



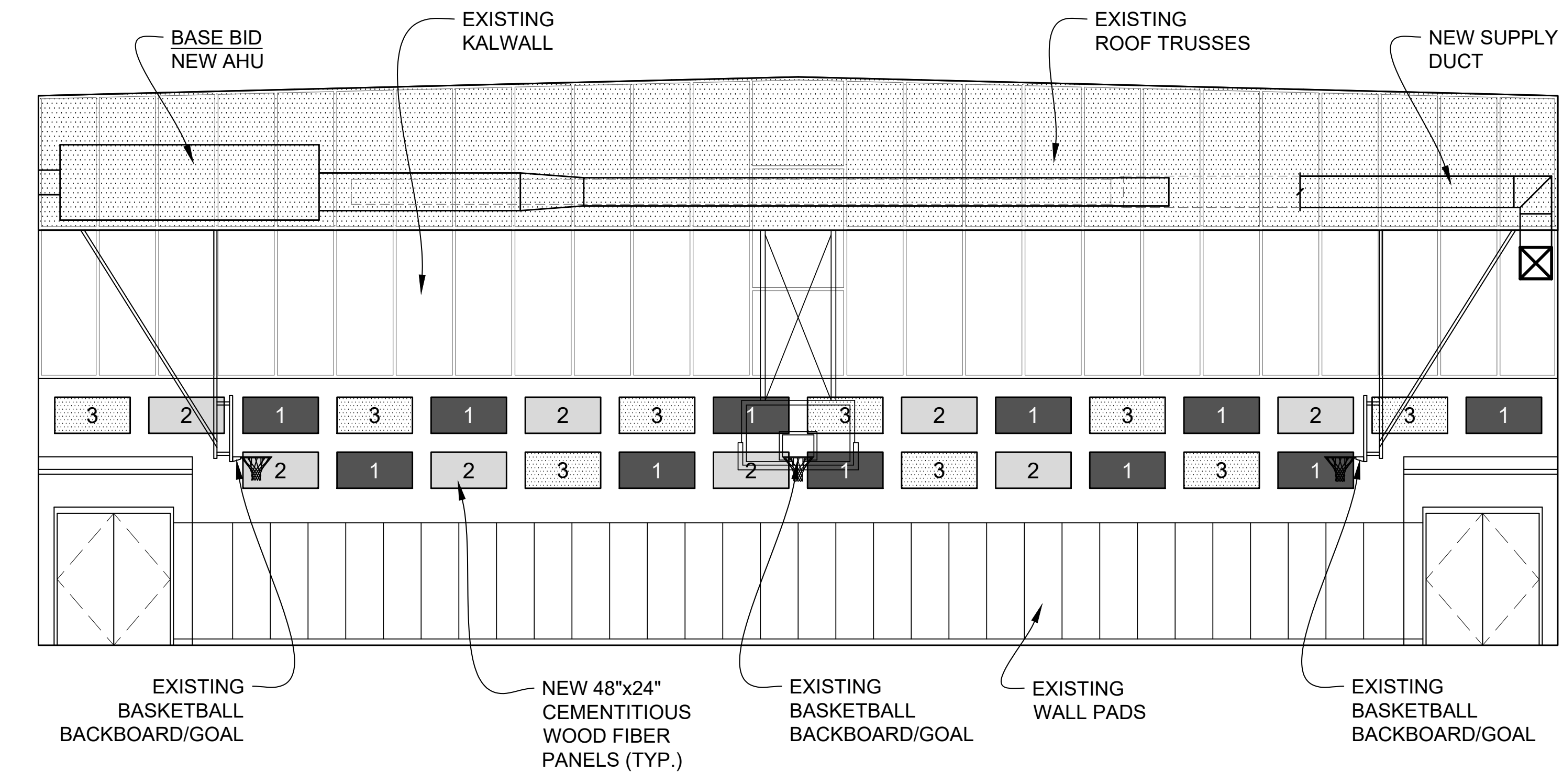
1 INTERIOR ELEVATION  
A200 AT GYMNASIUM 3/16" = 1'-0"



2 INTERIOR ELEVATION  
A200 AT GYMNASIUM 3/16" = 1'-0"

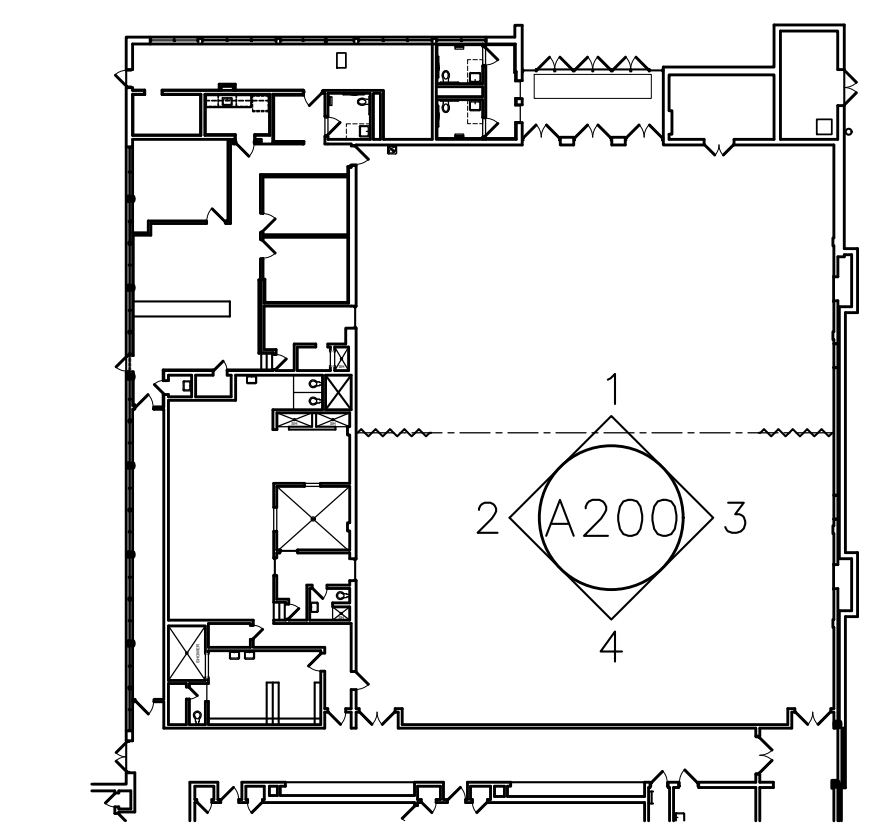


3 INTERIOR ELEVATION  
A200 AT GYMNASIUM 3/16" = 1'-0"



4 INTERIOR ELEVATION  
A200 AT GYMNASIUM 3/16" = 1'-0"

NOTES:  
1. BASE BID - NEW WOOD FIBER WALL PANELS



0 KEY PLAN  
A200 AT GYMNASIUM N.T.S.

ACOUSTICAL PANEL PAINT COLOR LEGEND:

- 1 ACOUSTICAL PANEL PAINT - COLOR 1
- 2 ACOUSTICAL PANEL PAINT - COLOR 2
- 3 ACOUSTICAL PANEL PAINT - COLOR 3

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TELEPHONE 610-368-6678

CLIENT:



MAPLE NEWTOWN SCHOOL DISTRICT  
40 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

PROJECT NAME:  
GYMNASIUM AND OFFICE HVAC RENOVATIONS AT THE GAUNTLETT CENTER

20 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

DRAWING NAME:  
INTERIOR ELEVATIONS AT GYMNASIUM

DATE:  
01/30/2026

SCALE:  
AS NOTED

DRAWN BY:  
dmc

CHECKED BY:  
PMM

PROJECT NUMBER:  
25113.00

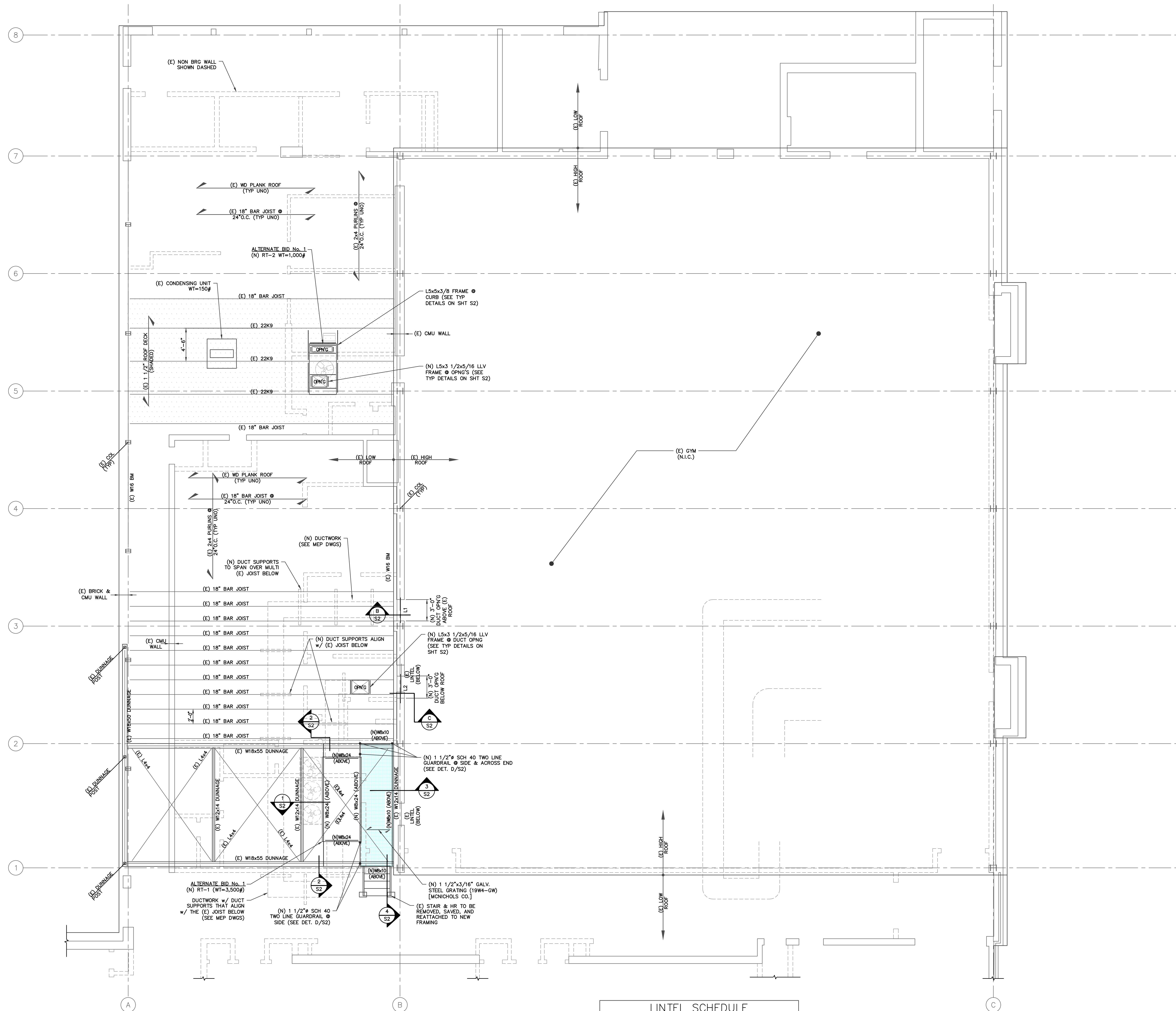
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25113.00a200.dwg

DRAWING NUMBER:

**A200**

**GENERAL NOTES**

1. DO NOT SCALE DRAWINGS TO ESTABLISH DIMENSIONS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

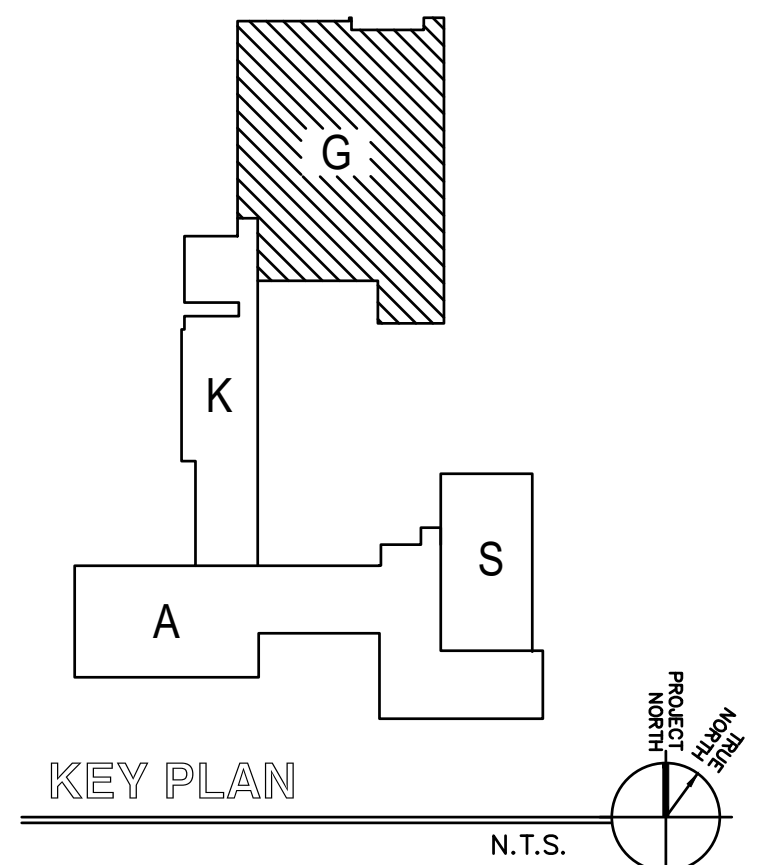


**(E) ROOF FRAMING PLAN - (N) RTU SUPPORT**  
SCALE: 3/16" = 1' - 0"

- NOTES:**
1. GC TO VERIFY & COORDINATE ALL EXISTING CONDITIONS & DIMENSIONS BEFORE BEGINNING ANY WORK.
  2. GC TO COORDINATE WITH ARCHITECTURAL & MEP DRAWINGS.
  3. GC TO VERIFY ALL ON ROOF & AERIAL UTILITIES PRIOR TO STARTING WORK.
  4. ALL NEW STRUCTURAL STEEL TO BE ASTM A992, Fy=50KSI AND TO BE HOT DIPPED GALVANIZED.
  5. SEE SHEET S2 FOR TYPICAL DETAILS & NOTES.

LINTEL SCHEDULE		
MARK	SIZE	SHAPE
L1	6"x8" & 4"x8" CMU LINTEL w/ #5 @ BTM & PT WD BLOCKING (SEE DET. B/S2)	
L2	(3)4"x8" CMU LINTEL w/ #5 @ BTM (SEE DET. C/S2)	

- NOTES:**
1. ALL LINTELS TO HAVE 8" MIN BRG. @ JAMBS
  2. SEE DETAILS B/S2 & C/S2.



DO NOT SCALE MANUALLY OR ELECTRONICALLY FROM THIS DWG.

THIS DRAWING MUST BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS

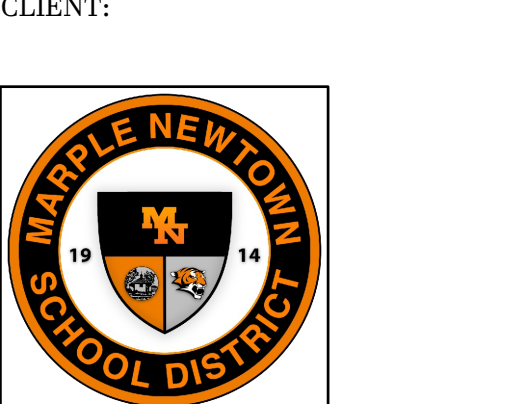
**CONTRACTOR NOTE:**  
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH ANY WORK, AND SHALL BE RESPONSIBLE FOR SAME.

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MARPLE NEWTOWN SCHOOL DISTRICT  
40 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

PROJECT NAME:  
GYMNASIUM AND OFFICE HVAC RENOVATIONS AT THE GAUNTLETT CENTER  
20 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

DRAWING NAME:  
(E) ROOF FRAMING PLAN - (N) RTU SUPPORT FRAMING

DATE:  
01/30/2026  
SCALE:  
AS NOTED  
DRAWN BY:  
DB  
CHECKED BY:  
FCT

PROJECT NUMBER:  
25113.00

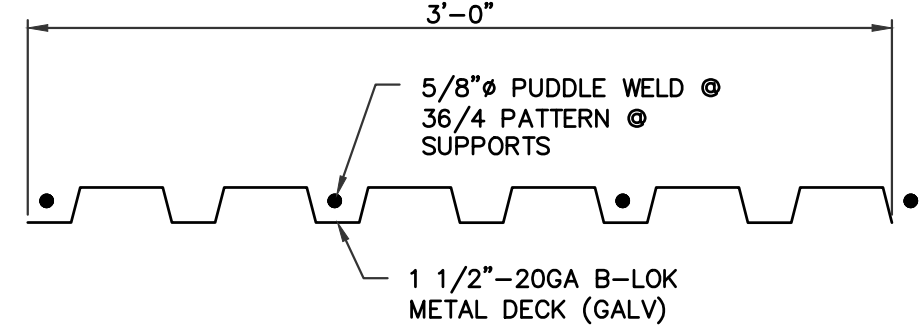
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DRAWING NUMBER:  
**S1**  
SHEET 1 OF 2

**BID SET: 01/30/2026**  
DO NOT SCALE MANUALLY OR ELECTRONICALLY FROM THIS DWG.

**STEEL DECK NOTES:**

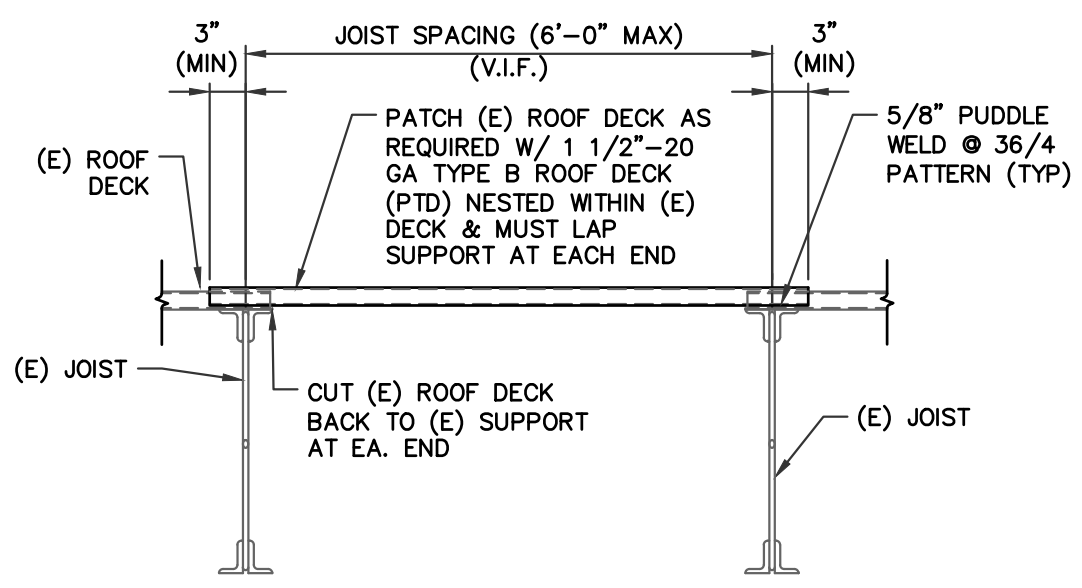
- STEEL DECK SHALL BE APPROVED BY THE STEEL DECK INSTITUTE AND BE MANUFACTURED AND ERRECTED IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- PROVIDE WELDING WASHERS FOR ALL DECKS LIGHTER THAN 22 GAUGE.
- DECK CONTRACTOR SHALL COORDINATE AND PROVIDE ALL FLOOR AND ROOF DECK OPENINGS AS REQUIRED.
- SHOP DRAWINGS ON ALL STEEL DECKING MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW.



**TYP. MTL DECK DETAIL**

SCALE: 1 1/2" = 1'-0"

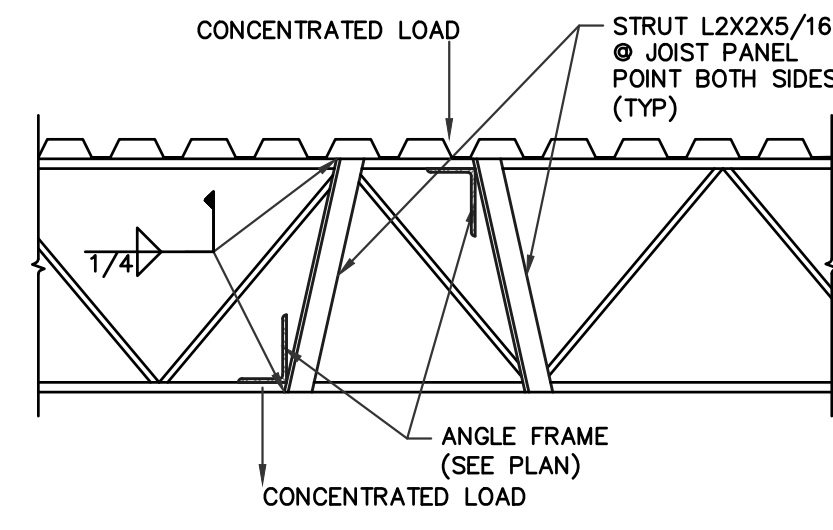
- NOTES:
- SIDE LAPS OF METAL DECK TO BE FASTENED WITH (2) #10 SIDE LAP SCREWS EQUALLY SPACED.
  - 5/8" PUDDLE WELD AT SIDE SUPPORT @ 24" O.C.



**TYP. ROOF OPNG INFILL DETAIL**

SCALE: 3/4" = 1'-0"

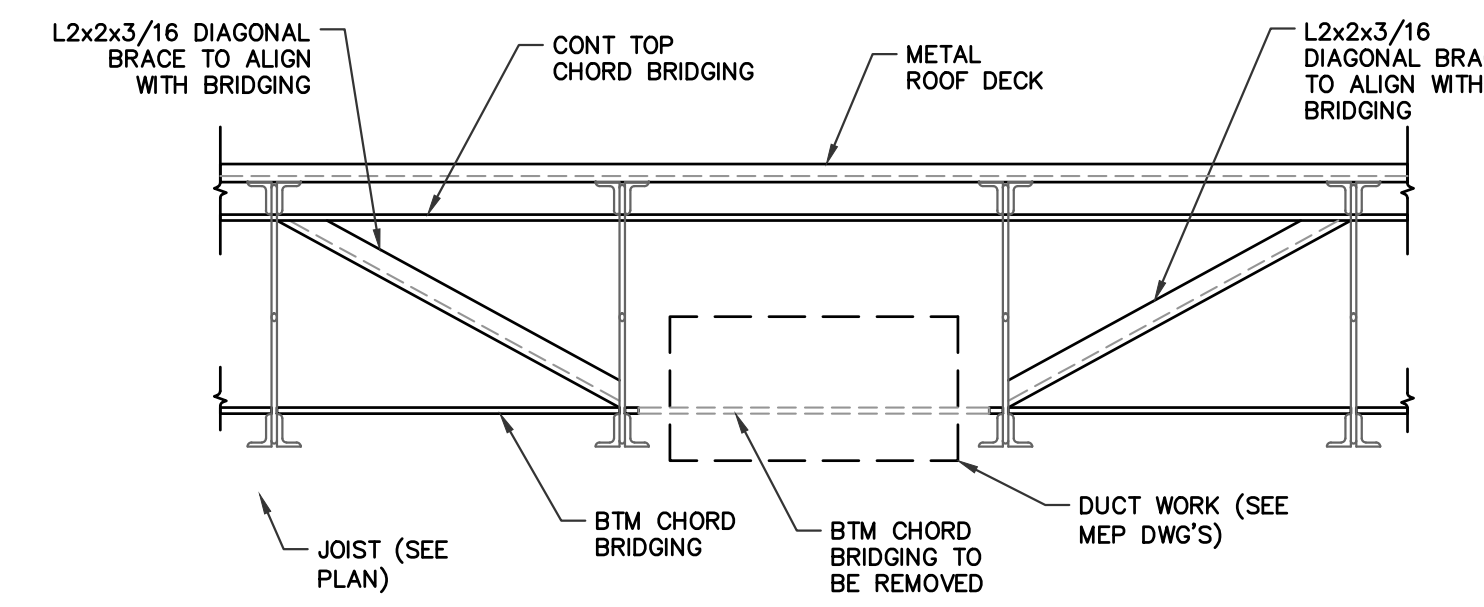
NOTE:



**TYP. POINT LOAD DETAIL**

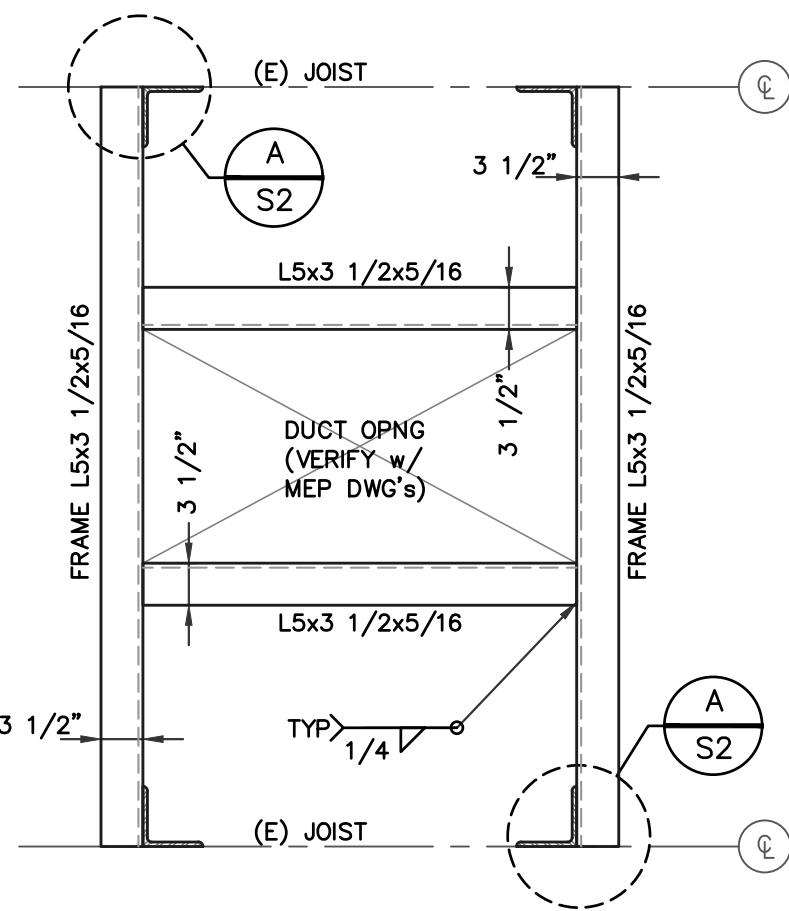
SCALE: NTS

- NOTES:
- MUST BE USED AT ALL MECHANICAL UNITS.
  - ADD'L L1 1/4x1 1/4x1/8 "X" BRACING @ LOAD POINTS.



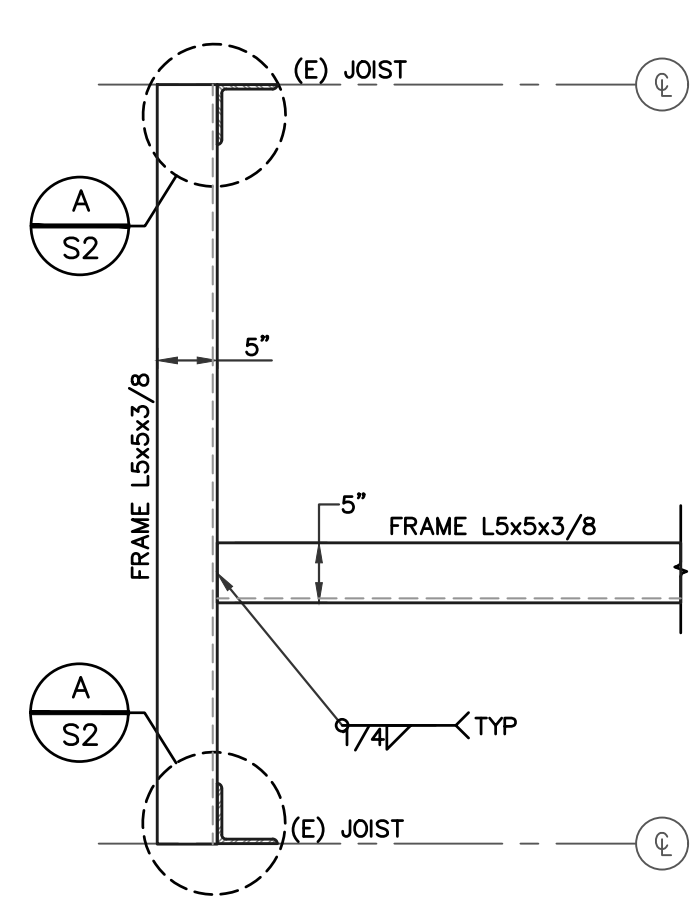
**TYP. JOIST BRIDGING DETAIL**

SCALE: 3/4" = 1'-0"



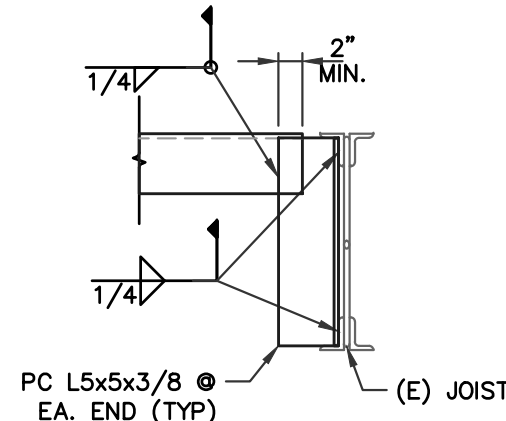
**TYP. DUCT OPNG DETAIL**

SCALE: NTS



**TYP. MECH. CURBING DETAIL**

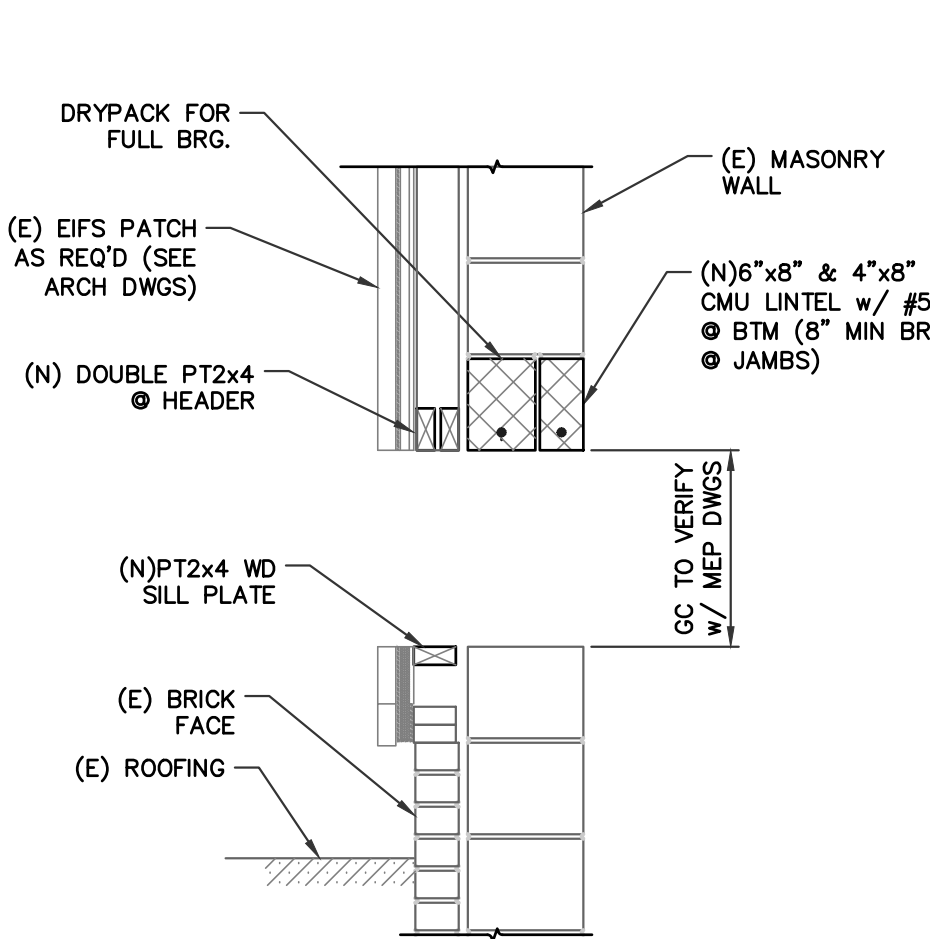
SCALE: NTS



**DETAIL**

SCALE: 3/4" = 1'-0"

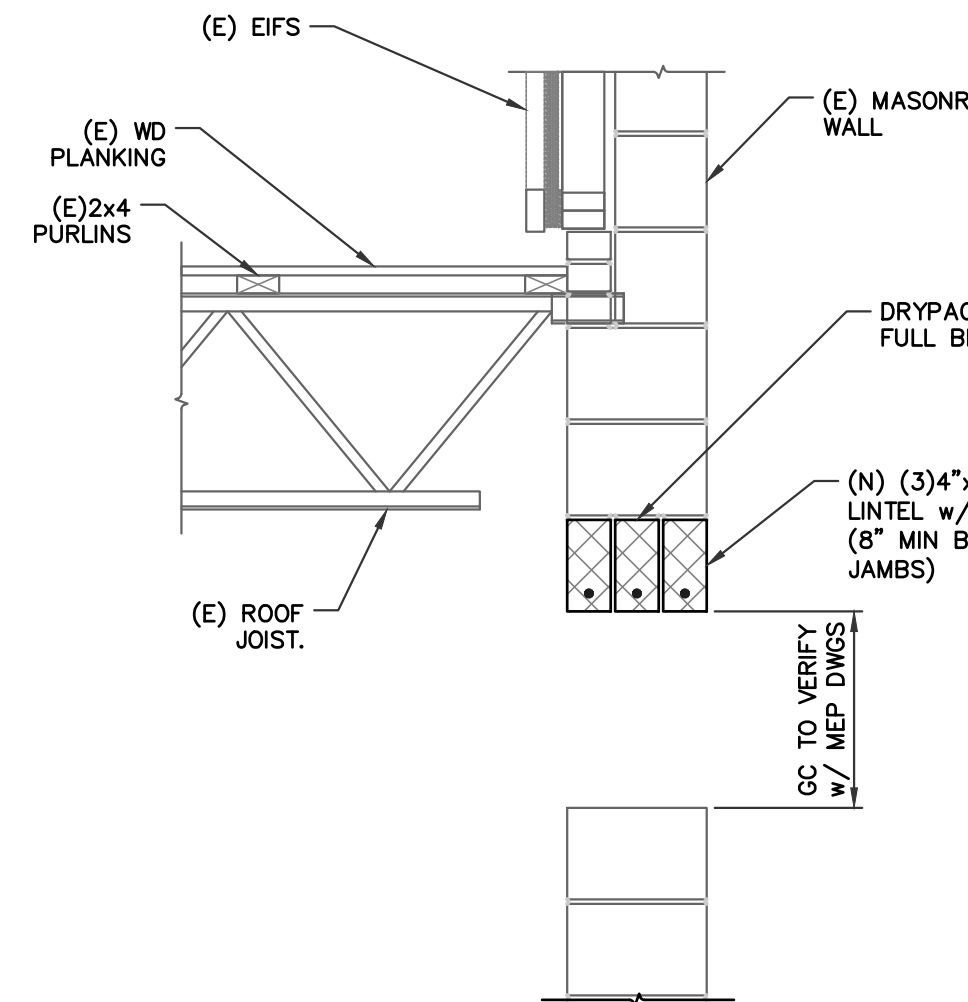
A  
S2



**DETAIL**

SCALE: 3/4" = 1'-0"

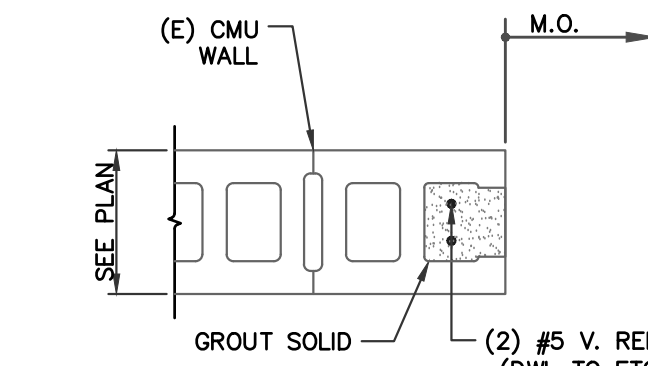
B  
S2



**DETAIL**

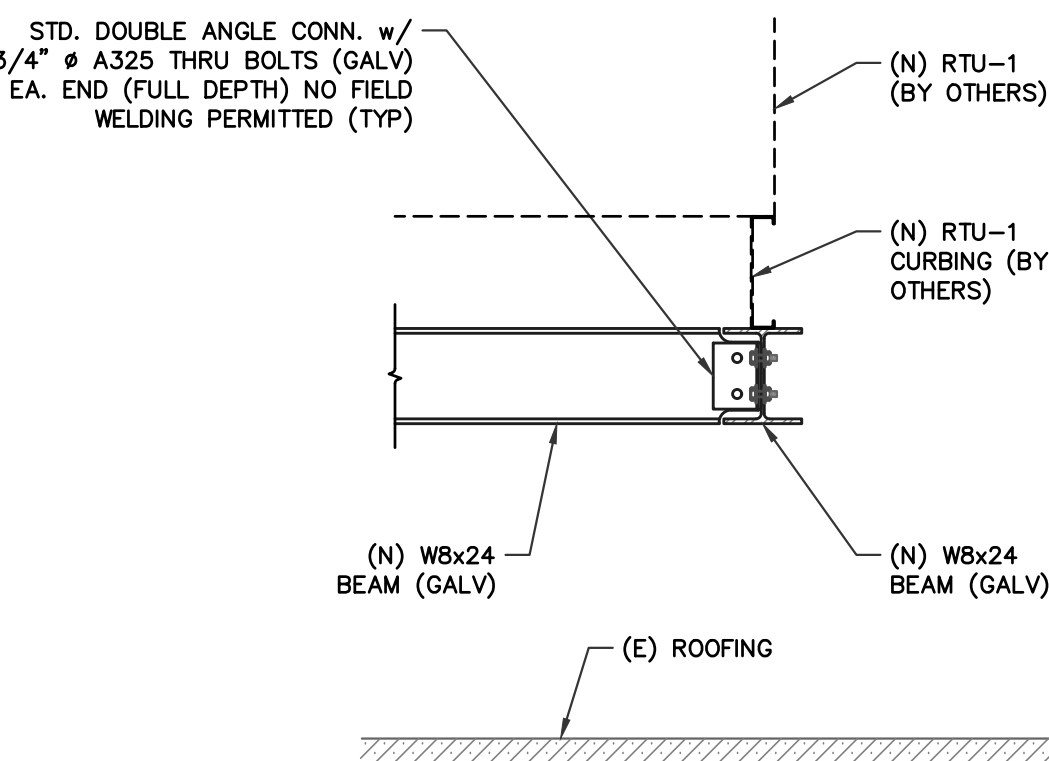
SCALE: 3/4" = 1'-0"

C  
S2



**TYP. MASONRY OPNG DETAIL**

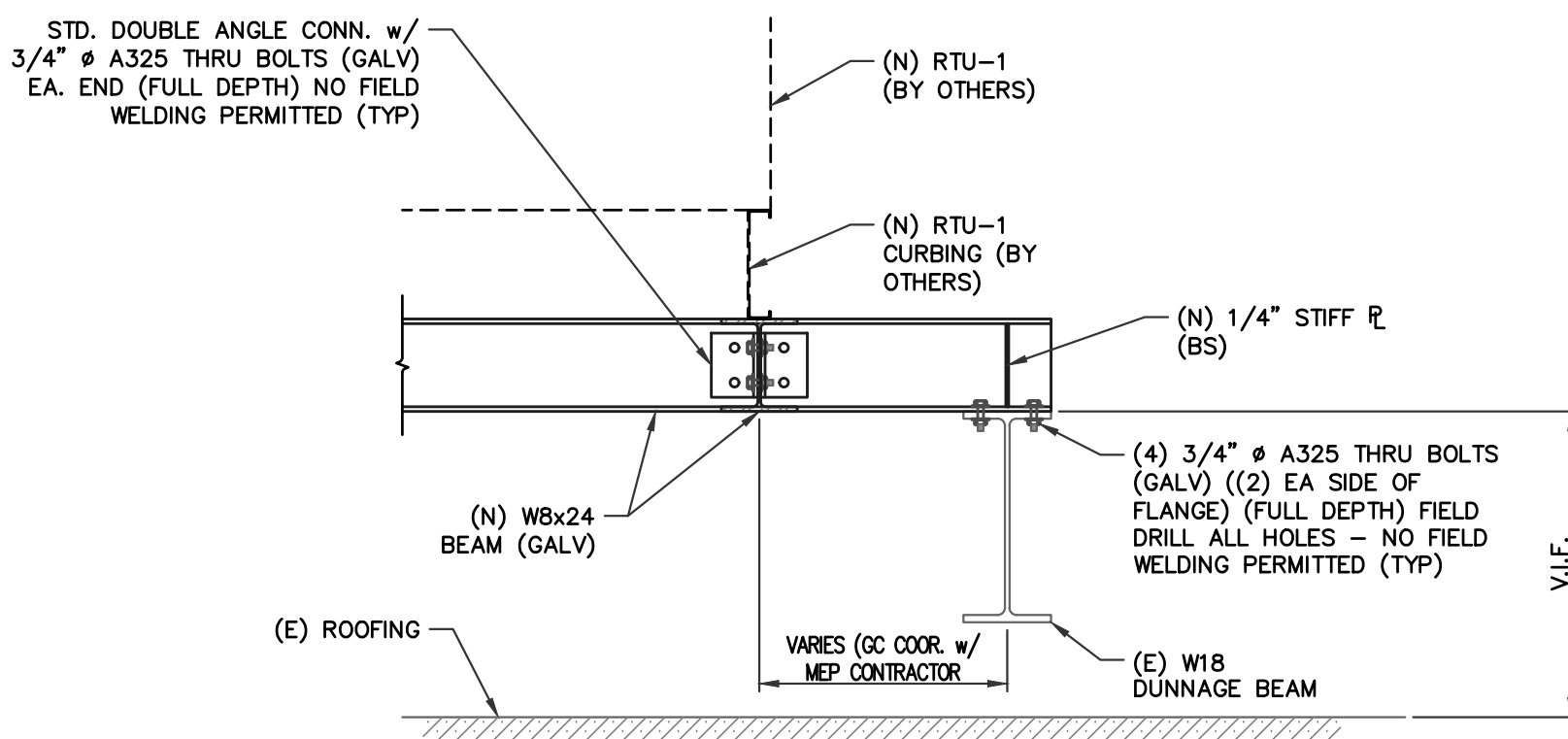
SCALE: 3/4" = 1'-0"



**SECTION**

SCALE: 3/4" = 1'-0"

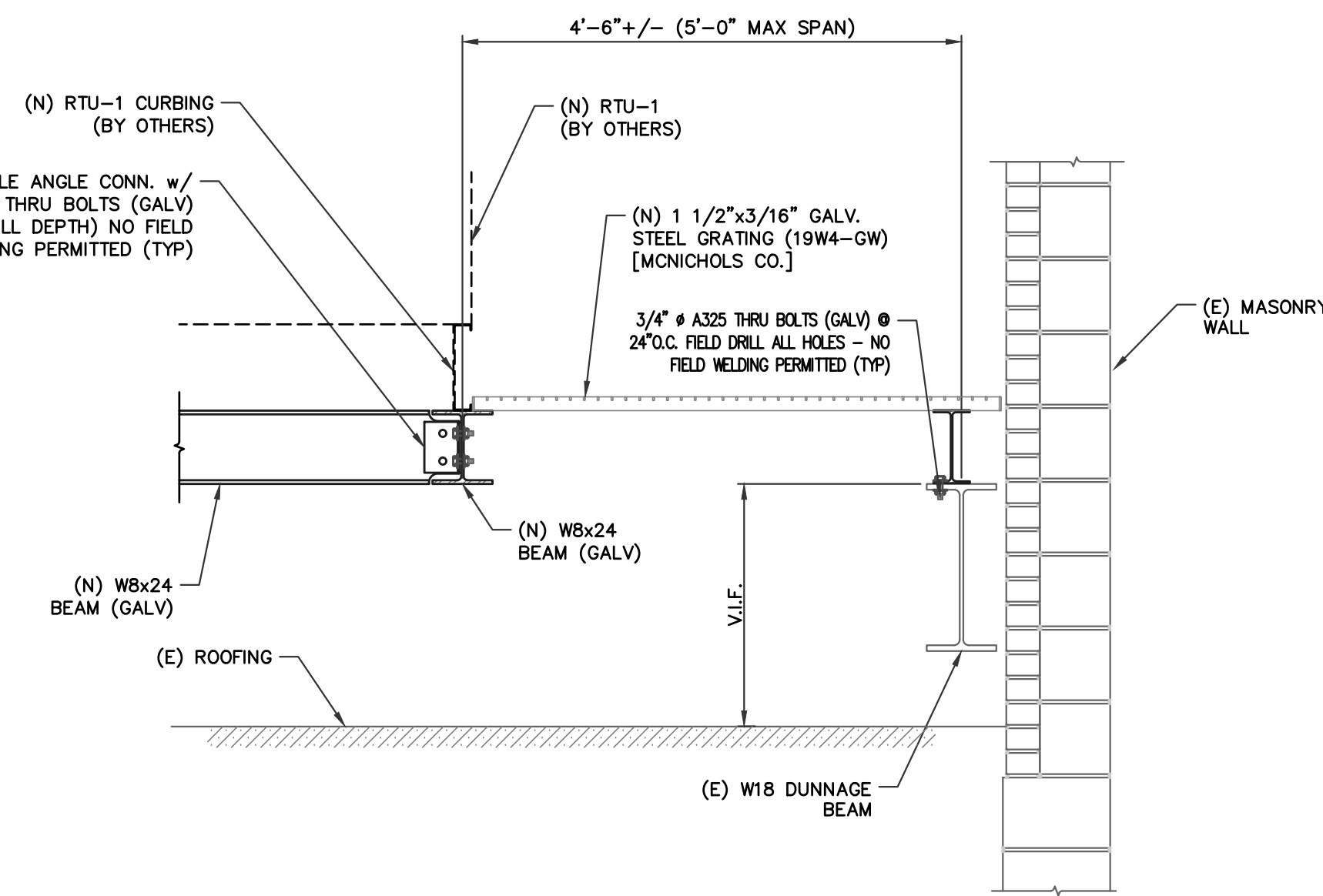
1  
S2



**SECTION**

SCALE: 3/4" = 1'-0"

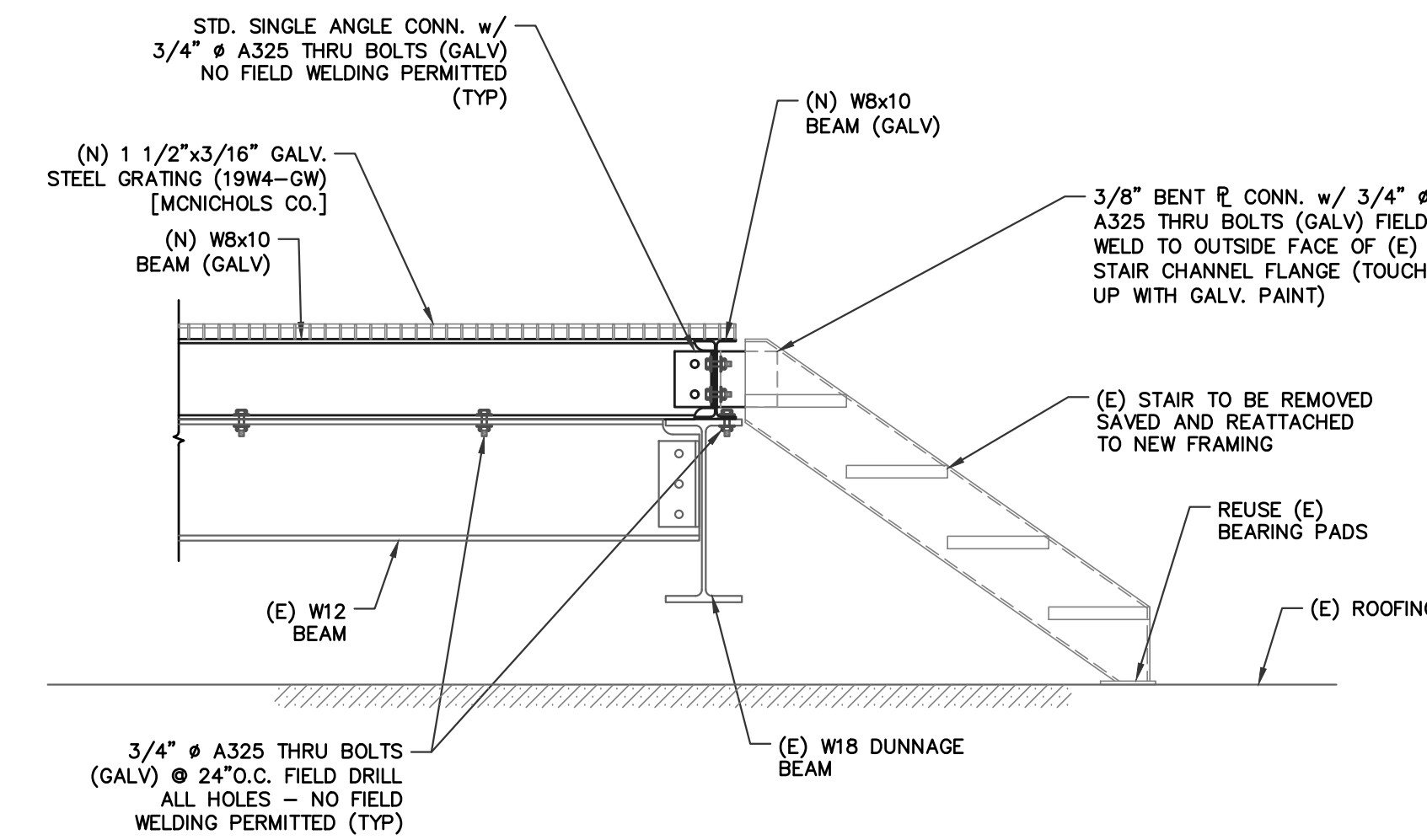
2  
S2



**SECTION**

SCALE: 3/4" = 1'-0"

3  
S2



**SECTION**

SCALE: 3/4" = 1'-0"

4  
S2

**GENERAL NOTES:**

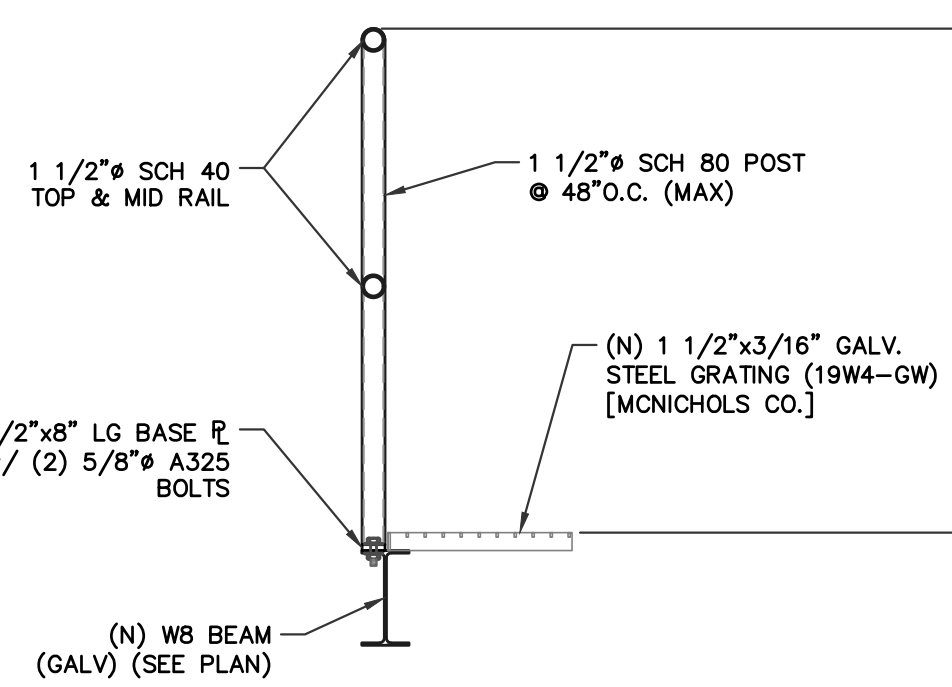
- THE CONTRACTOR SHALL EXAMINE THE STRUCTURAL DRAWINGS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN ELEVATIONS, DIMENSIONS, AND SITE CONDITIONS BEFORE PROCEEDING WITH ANY WORK. OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE DRAWINGS SHALL BE RESOLVED WITH THE ENGINEER PRIOR TO THE START OF WORK.
- ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT INTERNATIONAL BUILDING CODE, AND TO ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING, BUT NOT LIMITED TO ALL APPLICABLE OSHA REQUIREMENTS.
- WHERE ALTERATIONS INVOLVE ANY EXISTING STRUCTURE, THE CONTRACTOR SHALL DESIGN AND CONSTRUCT TEMPORARY SUPPORT AND PROTECTION SYSTEMS DESIGNED TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE AND IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL ENGINEER TO DESIGN SUCH SYSTEMS.
- THE DRAWINGS REPRESENT THE COMPLETED STRUCTURE. THEY DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AND BE SOLELY RESPONSIBLE FOR ALL MEASURES AND MEANS NECESSARY TO PROTECT PERSONS AND THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, MEANS, METHODS, COORDINATION, BRACING, SHORING, ETC. OBSERVATION VISITS BY THE ARCHITECT OR ENGINEER DOES NOT INCLUDE INSPECTION OF THOSE ITEMS.
- THE CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL PERSONS AND PROPERTY IN, AROUND AND ADJACENT TO THE CONSTRUCTION AREA. CORDON ALL AREAS AROUND OR ADJACENT TO CONDITIONS WHICH REPRESENT A HAZARD TO PERSONS OR PROPERTY.
- ALL COSTS OF INVESTIGATION, REDESIGN AND DOCUMENTATION DUE TO CONTRACTOR IMPROPER INSTALLATION OF STRUCTURAL ELEMENTS OR ITEMS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- ALL COSTS OF REVISIONS REQUESTED FOR THE CONTRACTOR'S CONVENIENCE SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN THE AREA TO BE EXCAVATED BEFORE DIGGING, EXERCISE EXTREME CAUTION WHEN EXCAVATING & TRENCHING.
- IF THE EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS INDICATED ON THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. DO NOT COMMENCE WORK UNTIL CONDITION IS RESOLVED AND THE MODIFICATION HAS BEEN REVIEWED BY THE ENGINEER.

**STRUCTURAL STEEL NOTES:**

- ALL STEEL SHALL BE DETAILED, FABRICATED, AND ERRECTED IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERRECTION OF STRUCTURAL STEEL FOR BUILDINGS" (LATEST EDITION).
- ALL STRUCTURAL STEEL, W-SHAPE SHALL BE ASTM A992 (F<sub>y</sub> = 50 KSI).
- ALL STRUCTURAL STEEL, L-SHAPE SHALL BE ASTM A572 GR50 (F<sub>y</sub>=50 KSI).
- ALL STRUCTURAL STEEL PIPE SHALL BE ASTM A53, GRADE B (F<sub>y</sub>=35 KSI).
- ALL OTHER MISC. STRUCTURAL STEEL SHALL BE ASTM A36 (F<sub>y</sub>=36 KSI).
- ALL STEEL SHALL RECEIVE ONE SHOP COAT OF AN APPROVED PRIMER, 2 MIL. THICKNESS, EXCEPT MEMBERS TO HAVE SPRAYED ON FIREPROOFING.
- ALL EXPOSED STEEL TO BE GALVANIZED.
- ALL BOLTS SHALL BE ASTM A-325 HIGH STRENGTH BOLTS, BEARING TYPE AND SHALL BE 3/4" MINIMUM.
- ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. WELDING ELECTRODES SHALL CONFORM TO E70 SERIES, ASTM A-233.
- ALL STEEL TO BE PROVIDED BY THE STEEL FABRICATOR, UNLESS OTHERWISE NOTED ON THE DRAWINGS. STEEL FABRICATOR SHALL FURNISH ALL CLIPS, ANGLES, PLATES, ANCHORS, ETC. AS REQUIRED TO PRODUCE A COMPLETE CONNECTION.
- ALL ERECTION TOLERANCES AS STATED IN THE AISC SPECIFICATION MUST BE STRICTLY ADHERED TO DURING ERECTION.
- SHOP DRAWINGS OF ALL STRUCTURAL STEEL MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. SHOP & ERECTION DRAWINGS MUST SHOW ALL SHOP FIELD WELDS. PROVIDE AND INDICATE BEAM END CONNECTION LOAD CAPACITIES ON SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PROVIDE STANDARD AISC CONNECTIONS.
- ALL STEEL TO BE PROVIDED BY THE STEEL FABRICATOR, UNLESS OTHERWISE NOTED ON THE DRAWINGS. STEEL FABRICATOR SHALL FURNISH ALL CLIPS, ANGLES, PLATES, ANCHORS, ETC. AS REQUIRED TO PRODUCE A COMPLETE JOB, INCLUDING ALL MEMBERS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- IF THE STEEL FABRICATOR USES COPIES OF THE STRUCTURAL DRAWINGS FOR ERECTION PLANS THEN THE STEEL FABRICATOR MUST VERIFY ALL DIMENSIONS, PROVIDE ADDITIONAL SECTIONS AND DETAILS AS REQUIRED FOR PROPER ERECTION, AND REVIEW ALL ARCHITECTURAL DRAWINGS FOR ADDITIONAL WORK REQUIRED.
- FOR ELEVATIONS NOT SHOWN, THE STEEL DETAILER SHALL CALCULATE ALL TOP OF STEEL ELEVATIONS AND BEAM SLOPES AT ALL LEVELS. SEE ARCHITECTURAL DRAWINGS.

**STRUCTURAL DESIGN CRITERIA (I.B.C. 2018, CHAPTER 16)**

- ROOF LIVE LOAD, PONDRING & SNOW DRIFTING TO BE IN ACCORDANCE WITH IBC.** = 30 PSF
- ROOF SNOW LOAD (SECTION 1609)**
  - GROUND SNOW LOAD (P<sub>g</sub>) = 25 PSF
  - FLAT ROOF SNOW LOAD (P<sub>f</sub>) = 16 PSF
  - SNOW EXPOSURE FACTOR (C<sub>e</sub>) = 0.9
  - SNOW LOAD IMPORTANCE FACTOR (I<sub>s</sub>) = 1.0
  - THERMAL FACTOR (C<sub>t</sub>) = 1.0
  - SNOW DRIFT AS PER IBC CODE
- WIND LOADS (SECTION 1609) (ULTIMATE LOADS SHOWN)**
  - MAIN-WIND FORCE RESISTING SYSTEM = 114 MPH
  - BASIC WIND SPEED (V) = CATEGORY II
  - OCCUPANCY CATEGORY [IBC TABLE 1604.5] = 1.0
  - WIND EXPOSURE CATEGORY [SECTION 1609.4] = B
  - INTERNAL PRESSURE COEFFICIENT = ±0.18
  - WIND DESIGN PRESSURE BUILDING (P) (SECTION 1609.6) = 17.2 PSF
  - NET WIND UPLIFT ON ROOF = 27.2 PSF
- EARTHQUAKE DESIGN DATA**
  - OCCUPANCY CATEGORY [IBC TABLE 1604.5] = CATEGORY II
  - SEISMIC IMPORTANCE FACTOR (I<sub>s</sub>) = 1.0
  - MAPPED SPECTRAL RESPONSE ACCELERATIONS (S<sub>a</sub>) = 0.183
  - MAPPED SPECTRAL RESPONSE ACCELERATIONS (S<sub>1</sub>) = 0.047
  - SITE CLASS [IBC 1613.5.2] = D
  - SPECTRAL RESPONSE COEFFICIENTS (S<sub>DS</sub>) [IBC 16.13.5.4] = 0.195
  - SPECTRAL RESPONSE COEFFICIENTS (S<sub>D1</sub>) [IBC 16.13.5.4] = 0.076
  - SEISMIC DESIGN CATEGORY [IBC 16.13.5.6] = B



**DETAIL**

SCALE: 3/4" = 1'-0"

D  
S2

DO NOT SCALE MANUALLY OR ELECTRONICALLY FROM THIS DWG.

THIS DRAWING MUST BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS

CONTRACTOR NOTE:  
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH ANY WORK, AND SHALL BE RESPONSIBLE FOR SAME.

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**GENERAL NOTES:**

- DO NOT SCALE DRAWINGS TO ESTABLISH DIMENSIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

DATE:

FRANK C. THOMPSON PE050346E  
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

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CLIENT:



MARPLE NEWTOWN SCHOOL DISTRICT  
40 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

PROJECT NAME:  
GYMNASIUM AND OFFICE HVAC RENOVATIONS AT THE GAUNTLETT CENTER  
20 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

DRAWING NAME:  
SECTIONS, DETAILS, & NOTES

DATE:  
01/30/2026

SCALE:  
AS NOTED

DRAWN BY:  
DB

CHECKED BY:  
FCT

PROJECT NUMBER:  
25113.00

CADD FILE:  
0:\DWG\MNSD Gauntlett Center.dwg  
Sections & Details

DRAWING NUMBER:  
S2

SHEET 2 OF 2

S2

BID SET: 01/30/2026

DO NOT SCALE MANUALLY OR ELECTRONICALLY FROM THIS DWG.

## MECHANICAL NOTES

- CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED TO FABRICATE, INSTALL, AND PLACE IN WORKING ORDER ALL SYSTEMS SHOWN ON DRAWINGS. CONTRACTOR SHALL PROVIDE COMPLETE AND OPERATIONAL SYSTEMS. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE AND PROFESSIONAL MANNER CONSISTENT WITH ALL APPLICABLE INDUSTRY STANDARDS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST RECENT ADOPTED EDITION OF THE INTERNATIONAL MECHANICAL CODE (2018 IMC) AND THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL BE RESPONSIBLE TO APPLY FOR AND PROCURE ALL REQUIRED PERMITS, CERTIFICATES AND AGENCY APPROVALS.
- DRAWINGS INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF THE NEW CONSTRUCTION. SO FAR AS PRACTICAL, INSTALL NEW WORK AS INDICATED. CONTRACTOR SHALL BE RESPONSIBLE TO THOROUGHLY INVESTIGATE AND VERIFY ALL FIELD CONDITIONS AND ALL OTHER NEW SYSTEMS INSTALLED PRIOR TO FABRICATION AND INSTALLATION OF NEW SYSTEMS.
- UNLESS OTHERWISE NOTED, EQUIPMENT AND MATERIALS OF CONSTRUCTION AS SCHEDULED AND SHOWN ON THE DRAWINGS CONSTITUTE A STANDARD OF QUALITY AND CONTRACTOR BASIS OF CONTRACT BID. AT THE CONTRACTOR'S DISCRETION, EQUIVALENT PRODUCT SUBSTITUTIONS MAY BE SUBMITTED TO THE OWNER FOR APPROVAL. WRITTEN APPROVAL AND ACCEPTANCE BY THE OWNER OF AN EQUIVALENT PRODUCT SUBSTITUTION SHALL NOT HOWEVER RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF PROVIDING COMPLETE AND OPERATIONAL SYSTEMS. THIS CONTRACTOR SHALL AT NO ADDITIONAL COST TO THE CONTRACTOR, BE RESPONSIBLE FOR ANY AND ALL MODIFICATIONS AND/OR ADDITIONAL CONSTRUCTION REQUIRED TO ACCOMMODATE INSTALLATION AND OPERATION OF ANY SUBSTITUTE PRODUCT.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL MAJOR MANUFACTURED ITEMS REQUIRED ON THIS PROJECT. ELECTRONIC COPIES SHALL BE SUBMITTED. PURCHASE OR INSTALLATION OF EQUIPMENT OR SYSTEMS COMPONENTS WITHOUT PRIOR WRITTEN APPROVALS IS FORBIDDEN. APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF PROVIDING COMPLETE OPERATIONAL SYSTEMS.
- CONTRACTOR SHALL INFORM THE ENGINEER OF ANY QUESTIONS OR DISCREPANCIES PRIOR TO PURCHASE, FABRICATION, AND/OR INSTALLATION OF ANY MATERIAL.
- ALL EQUIPMENT PROVIDED UNDER THIS CONTRACTOR SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL STEEL, SUPPORTS, BRACES, HANGERS, ETC. REQUIRED FOR THIS CONTRACT UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT SUPPORT LOCATIONS AND INSTALLATION WITH ROOFING AND STRUCTURAL CONTRACTORS.
- CONTRACTOR SHALL PROVIDE ALL LABOR, DEVICES, WIRE, CONDUIT, ETC. REQUIRED FOR CONTROL INSTALLATION. REQUIRED ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC.
- CONTRACTOR SHALL LEAVE THE WORK IN PROPER WORKING ORDER AND SHALL WITHOUT ADDITIONAL CHARGE, REPLACE ANY WORK, MATERIALS, OR EQUIPMENT FURNISHED AND INSTALLED BY HIM UNDER HIS CONTRACT WHICH DEVELOPS DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR WITHIN ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
- CONTRACTOR SHALL PROVIDE TESTING, ADJUSTING, AND BALANCING, INCLUDING A WRITTEN REPORT TO THE OWNER FOR APPROVAL FOR SYSTEM INSTALLED. TEST SHALL BE PERFORMED TO ASCERTAIN WHETHER SYSTEM AND EQUIPMENT INSTALLED COMPLY TO THE EQUIPMENT SPECIFICATION AND ARE IN PROPER WORKING ORDER. BALANCE ALL BRANCHES, DUCTWORK, SUPPLY AIR DIFFUSERS, RETURN AIR REGISTERS, AND EXHAUST REGISTERS, ETC. TO QUANTITIES SHOWN ON THE PLANS. ALL DEVICES SHALL BE BALANCED TO WITHIN 5% OF QUANTITIES SHOWN. (WORK SHALL BE PERFORMED BY A FIRM CERTIFIED BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU OR THE ASSOCIATED AIR BALANCE COUNCIL.)
- AT THE COMPLETION OF CONSTRUCTION CONTRACTOR SHALL PROVIDE COMPLETE AND ACCURATE "AS CONSTRUCTED" DOCUMENTATION FOR ALL SYSTEMS INSTALLED UNDER THIS CONTRACT. CONTRACTOR SHALL ALSO PROVIDE ONE COMPLETE SET OF OPERATING AND MAINTENANCE INSTRUCTIONS IN AN ELECTRONIC FORMAT. CONTRACTOR SHALL INSTRUCT THE OWNER OR HIS AGENT WITH REGARD TO THE PROPER USE OF THE SYSTEM UNTIL SUCH INSTRUCTION IS COMPLETE TO THE OWNER'S SATISFACTION.

## MATERIALS OF CONSTRUCTION:

### DUCTWORK:

SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK: HOT DIPPED GALVANIZED SHEET METAL, ASTM-A-525. FABRICATE AND INSTALL IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE. SMACNA APPROVED JOINTS, SEAMS AND REINFORCING FOR 19" KLG. DUCTWORK SHALL BE INSULATED WITH RIGID INSULATION WITH A MINIMUM R VALUE OF 6.0. PROVIDE WITH ALL PURPOSE VAPOR RETARDER, PAINT INSULATION AT DIRECTION OF OWNER/ARCHITECT.

DUCTWORK SEALANT: ALL DUCTWORK SEAMS AND JOINTS SHALL BE SEALED WITH A NON-HARDENING, NON-MIGRATING SEALANT. 3% MAXIMUM ALLOWABLE DUCT SYSTEM LEAKAGE. SEALANT SHALL BE CLEAR IN COLOR.

DUCTWORK SUPPORT MATERIALS: GALVANIZED STEEL FASTENERS, ANCHORS, RODS, STRAPS, AND TRIM.

### PIPING:

AIR CONDITIONING CONDENSATE DRAINS: SCHEDULE 40 PVC PIPE, ASTM D2665 WITH SOCKET FITTINGS AND SOLVENT CEMENTED JOINTS.

REFRIGERANT LIQUID AND SUCTION PIPING: HARD OR SOFT COPPER TUBE, ASTM B280, TYPE ACR, WITH WROUGHT COPPER FITTINGS, ASME B16.22, AND AS-3 SILVER BRAZED JOINTS WITH CLASS BAG-1 FILLER. INSULATE PIPING WITH 3/4" THICK BY 6.0 P.C.F. DENSITY CLOSED CELL FLEXIBLE TUBULAR INSULATION.

## MECHANICAL LEGEND

	DUCT SIZE
	DUCT SECTION, RETURN AIR
	DUCT SECTION, SUPPLY AIR
	VOLUME DAMPER
	TRANSITION
	TURNING VANES
	FLEXIBLE CONNECTION
	FLEX DUCT
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	CUBIC FEET PER MINUTE
	EXHAUST FAN
	ROOFTOP UNIT
	THERMOSTAT

## DUCTLESS SPLIT AIR-COOLED CONDENSING UNIT SCHEDULE

TAG	MODEL No.	MANUFACTURER	SERVING	CAPACITY TONS	AMBIENT DB		REFRIG. TYPE	ELECTRICAL CHARACTERISTICS			HEIGHT LBS.	NOTES
					MAX. °F	MIN. °F		VOLTAGE	MCA	MOCF		
CU-3	PA5-12BUFA5DQ1	HITACHI	EVP-1	1	45.0	0	R-32	208V/1Ø	9.3A	15A	11.2	1,2

### NOTES:

- PROVIDE WITH ANTI-CORROSION PROTECTION.
- PROVIDE WITH DISCONNECT SWITCH.
- PROVIDE WITH MANUFACTURER'S RECOMMENDED ROOFING SUPPORT, SEE DETAIL THIS DWG.

## DUCTLESS AC SPLIT SYSTEM SCHEDULE (INDOOR)

TAG	MODEL No.	MANUFACTURER	CAPACITY (BTUH)	CFM (HI/MED/LOW)	REFRIG. TYPE	ELECTRICAL CHARACTERISTICS			WEIGHT LBS.	NOTES
						VOLTAGE	MCA	MOCF		
EVP-1	PG1M-B12UF1A1D3	HITACHI	12,000	425/340/305	R-32	208V/1Ø	0.84A	-	34	1,2,3,4

### NOTES:

- INSTALL EVAPORATOR UNIT PER MANUFACTURER INSTRUCTIONS.
- PROVIDE W/ DRAIN PAN FLOAT WIRED TO SHUT DOWN UNIT IF DRAIN PAN FLUID LEVEL BECOME TO HIGH.
- PROVIDE WITH MINI CONDENSATE PUMP W/ RESERVOIR & SENSOR (208V)
- PROVIDE WITH REMOTE TEMPERATURE SENSOR.

## GRILLE SCHEDULE

TAG	SIZE	BORDER	MANUFACTURER	MODEL	NOTES
SG-1	20 X 10	SURFACE	TITUS	DL-SV	1,2,3

### NOTES:

- PROVIDE WITH MANUFACTURER'S RECOMMENDED MOUNTING FRAME.
- PROVIDE WITH FINISH AS SELECTED BY ARCHITECT.
- INSTALL BLADES AT A 45° THROW ANGLE.

## DX COIL CONDENSING UNIT SCHEDULE

TAG	MODEL No.	MANUFACTURER	SERVING	CAPACITY (TONS)	AMBIENT DB		REFRIG. TYPE	EER	ELECTRICAL CHARACTERISTICS			HEIGHT LBS.	NOTES
					MAX. °F	MIN. °F			VOLTAGE	MCA	MOCF		
CU-1	KD180CG00A4BA1	TEMPMASTER	CC-1	15	45.0	0	R-454B	11.2	208V/3Ø	14.29A	80A	81Ø	1,2
CU-2	KD180CG00A4BA1	TEMPMASTER	CC-2	15	45.0	0	R-454B	11.2	208V/3Ø	14.29A	80A	81Ø	1,2

### NOTES:

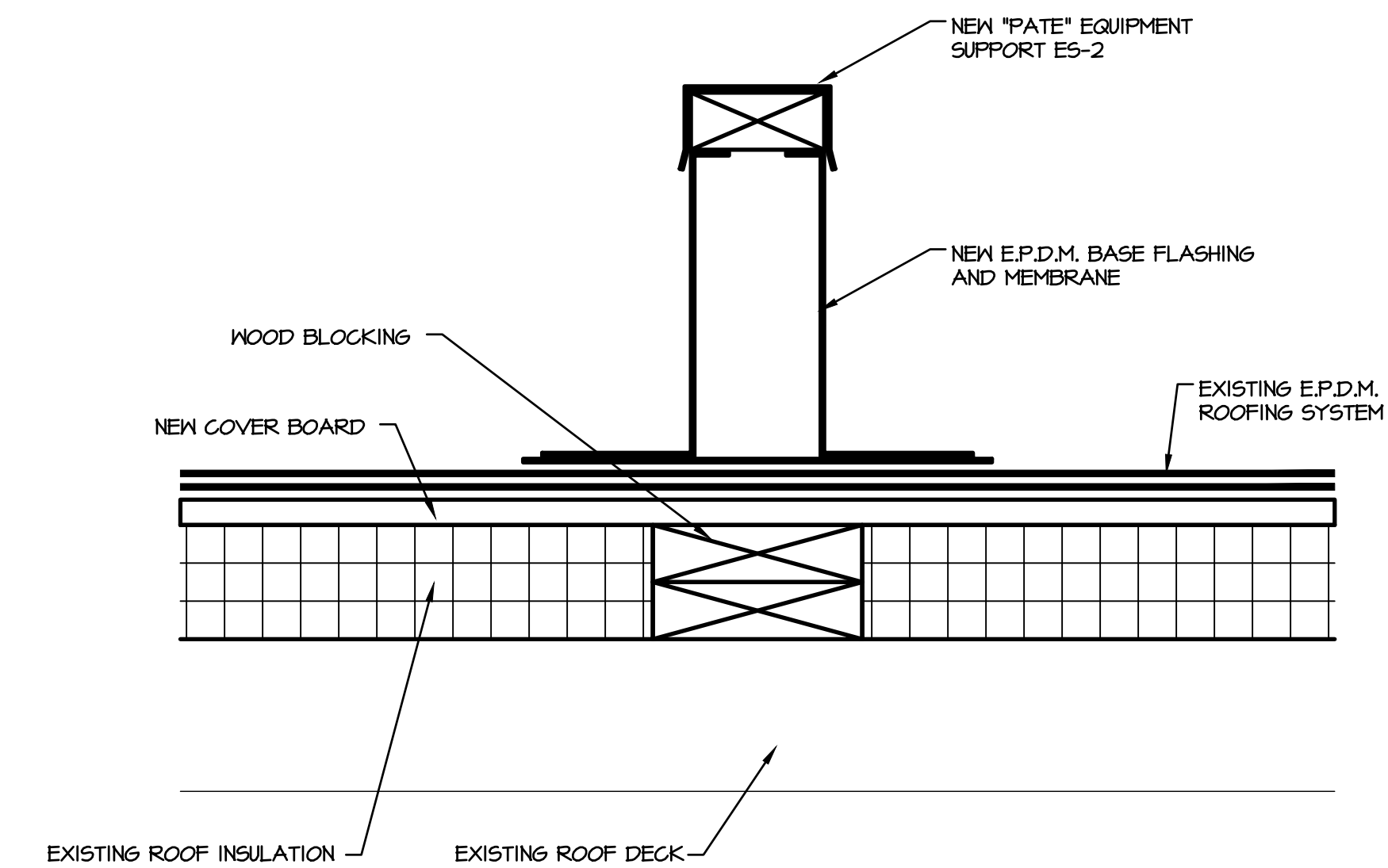
- PROVIDE WITH MANUFACTURER'S RECOMMENDED ROOF SUPPORT, SEE DETAIL THIS DWG.
- PROVIDE WITH DISCONNECT SWITCH.

## INDOOR COOLING COILS

TAG	MODEL No.	MANUFACTURER	CAPACITY (MBH)	FAN CFM	REFRIG. TYPE	ELECTRICAL CHARACTERISTICS			HEIGHT LBS.	NOTES
						VOLTAGE	MCA	MOCF		
CC-1	GM180CG00E2BA1	TEMPMASTER	180	4000	R-454B	208V/3Ø	25.5A	30.0A	34	1,2,3,4
CC-2	GM180CG00E2BA1	TEMPMASTER	180	4000	R-454B	208V/3Ø	25.5A	30.0A	34	1,2,3,4

### NOTES:

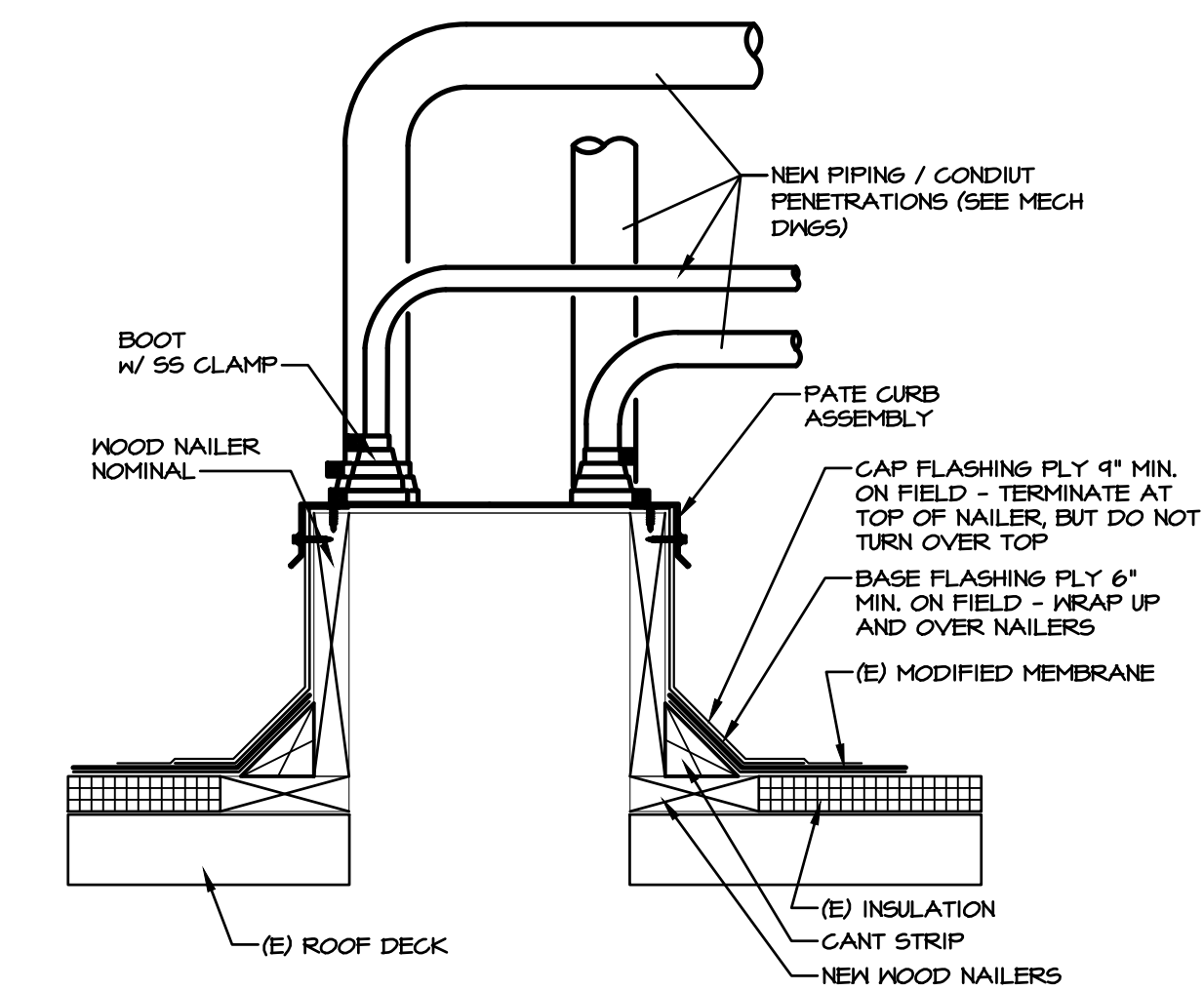
- INSTALL INDOOR COOLING COIL PER MANUFACTURER INSTRUCTIONS.
- PROVIDE W/ INTEGRAL DRAIN PAN FLOAT WIRED TO SHUT DOWN UNIT IF DRAIN PAN FLUID LEVEL BECOMES TO HIGH.
- PROVIDE WITH REMOTE TEMPERATURE SENSOR.
- PROVIDE WITH INTELLISPEED VFD WITHOUT BYPASS.



CONDENSING UNIT MOUNTING DETAIL  
SCALE: N.T.S.

### NOTE:

- BASE BID: HVAC CONTRACTOR SHALL HIRE A QUALIFIED MANUFACTURER APPROVED ROOFING CONTRACTOR TO PROVIDE WOOD BLOCKING, ROOFING, AND FLASHING WORK AS REQUIRED TO MAINTAIN EXISTING ROOF WARRANTY. SEE ROOFING DETAILS FOR ADDITIONAL INFORMATION.



CONDENSING UNIT REFRIGERANT PIPING CURB DETAIL  
SCALE: NONE

### NOTE:

- BASE BID: HVAC CONTRACTOR SHALL HIRE A QUALIFIED MANUFACTURER APPROVED ROOFING CONTRACTOR TO PROVIDE WOOD BLOCKING, ROOFING, AND FLASHING WORK AS REQUIRED TO MAINTAIN EXISTING ROOF WARRANTY. SEE ROOFING DETAILS FOR ADDITIONAL INFORMATION.

## GENERAL NOTES

- DO NOT SCALE DRAWINGS TO ESTABLISH DIMENSIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PETER M. MEDICA RA016195

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CLIENT:



MARPLE NEWTOWN  
SCHOOL DISTRICT  
40 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

PROJECT NAME:  
GYM HVAC RENOVATIONS AT  
GAUNTLETT CENTER  
40 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

DRAWING NAME:  
HVAC NOTES, SCHEDULES,  
AND DETAILS: BASE BID

DATE:  
01/30/2026

SCALE:  
AS NOTED

DRAWN BY:  
LGS

CHECKED BY:  
SG

PROJECT NUMBER:  
25113.00

CADD FILE:  
25113.00a100-110.dwg

DRAWING NUMBER:

**H001**

## MECHANICAL NOTES

- CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED TO FABRICATE, INSTALL, AND PLACE IN WORKING ORDER ALL SYSTEMS SHOWN ON DRAWINGS. CONTRACTOR SHALL PROVIDE COMPLETE AND OPERATIONAL SYSTEMS. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE AND PROFESSIONAL MANNER CONSISTENT WITH ALL APPLICABLE INDUSTRY STANDARDS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST RECENT ADOPTED EDITION OF THE INTERNATIONAL MECHANICAL CODE (2018 IMC) AND THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL BE RESPONSIBLE TO APPLY FOR AND PROCURE ALL REQUIRED PERMITS, CERTIFICATES AND AGENCY APPROVALS.
- DRAWINGS INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF THE NEW CONSTRUCTION. SO FAR AS PRACTICAL, INSTALL NEW WORK AS INDICATED. CONTRACTOR SHALL BE RESPONSIBLE TO THOROUGHLY INVESTIGATE AND VERIFY ALL FIELD CONDITIONS AND ALL OTHER NEW SYSTEMS INSTALLED PRIOR TO FABRICATION AND INSTALLATION OF NEW SYSTEMS.
- UNLESS OTHERWISE NOTED, EQUIPMENT AND MATERIALS OF CONSTRUCTION AS SCHEDULED AND SHOWN ON THE DRAWINGS CONSTITUTE A STANDARD OF QUALITY AND CONTRACTOR BASIS OF CONTRACT BID. AT THE CONTRACTOR'S DISCRETION, EQUIVALENT PRODUCT SUBSTITUTIONS MAY BE SUBMITTED TO THE OWNER FOR APPROVAL. WRITTEN APPROVAL AND ACCEPTANCE BY THE OWNER OF AN EQUIVALENT PRODUCT SUBSTITUTION SHALL NOT HOWEVER RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF PROVIDING COMPLETE AND OPERATIONAL SYSTEMS. THIS CONTRACTOR SHALL, AT NO ADDITIONAL COST TO THE CONTRACT, BE RESPONSIBLE FOR ANY AND ALL MODIFICATIONS AND/OR ADDITIONAL CONSTRUCTION REQUIRED TO ACCOMMODATE INSTALLATION AND OPERATION OF ANY SUBSTITUTE PRODUCT.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL MAJOR MANUFACTURED ITEMS REQUIRED ON THIS PROJECT. ELECTRONIC COPIES SHALL BE SUBMITTED. PURCHASE OR INSTALLATION OF EQUIPMENT OR SYSTEMS COMPONENTS WITHOUT PRIOR WRITTEN APPROVALS IS FORBIDDEN. APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF PROVIDING COMPLETE OPERATIONAL SYSTEMS.
- CONTRACTOR SHALL INFORM THE ENGINEER OF ANY QUESTIONS OR DISCREPANCIES PRIOR TO PURCHASE, FABRICATION, AND/OR INSTALLATION OF ANY MATERIAL.
- ALL EQUIPMENT PROVIDED UNDER THIS CONTRACTOR SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL STEEL, SUPPORTS, BRACES, HANGERS, ETC. REQUIRED FOR HIS CONTRACT UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT SUPPORT LOCATIONS AND INSTALLATION WITH ROOFING AND STRUCTURAL CONTRACTORS.
- CONTRACTOR SHALL PROVIDE ALL LABOR, DEVICES, WIRE, CONDUIT, ETC. REQUIRED FOR CONTROL INSTALLATION. REQUIRED ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC.
- CONTRACTOR SHALL LEAVE THE WORK IN PROPER WORKING ORDER AND SHALL, WITHOUT ADDITIONAL CHARGE, REPLACE ANY WORK, MATERIALS, OR EQUIPMENT FURNISHED AND INSTALLED BY HIM UNDER HIS CONTRACT WHICH DEVELOPS DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR WITHIN ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
- CONTRACTOR SHALL PROVIDE TESTING, ADJUSTING, AND BALANCING, INCLUDING A WRITTEN REPORT TO THE OWNER FOR APPROVAL FOR SYSTEMS INSTALLED. TEST SHALL BE PERFORMED TO ASCERTAIN WHETHER SYSTEM AND EQUIPMENT INSTALLED COMPLY TO THE EQUIPMENT SPECIFICATION AND ARE IN PROPER WORKING ORDER. BALANCE ALL BRANCHES, DUCTWORK, SUPPLY AIR DIFFUSERS, RETURN AIR REGISTERS, AND EXHAUST REGISTERS, ETC. TO QUANTITIES SHOWN ON THE PLANS. ALL DEVICES SHALL BE BALANCED TO WITHIN 5% OF QUANTITIES SHOWN. (WORK SHALL BE PERFORMED BY A FIRM CERTIFIED BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU OR THE ASSOCIATED AIR BALANCE COUNCIL.)
- AT THE COMPLETION OF CONSTRUCTION CONTRACTOR SHALL BE PROVIDE COMPLETE AND ACCURATE "AS CONSTRUCTED DOCUMENTATION" FOR ALL SYSTEMS INSTALLED UNDER THIS CONTRACT. CONTRACTOR SHALL ALSO PROVIDE ONE COMPLETE SET OF OPERATING AND MAINTENANCE INSTRUCTIONS IN AN ELECTRONIC FORMAT. CONTRACTOR SHALL INSTRUCT THE OWNER OR HIS AGENT WITH REGARD TO THE PROPER USE OF THE SYSTEM UNTIL SUCH INSTRUCTION IS COMPLETE TO THE OWNER'S SATISFACTION.

## MATERIALS OF CONSTRUCTION:

### DUCTWORK:

SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK: HOT DIPPED GALVANIZED SHEET METAL, ASTM-A-525. FABRICATE AND INSTALL IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE. SMACNA AFFRCS JOINTS, SEAMS AND REINFORCING FOR 18" HVAC DUCTWORK SHALL INSULATED WITH RIGID INSULATION WITH A MINIMUM R VALUE OF 6.0. PROVIDE WITH ALL PURPOSE VAPOR RETARDER. PAINT INSULATION AT DIRECTION OF OWNER/ARCHITECT.

FLEXIBLE DUCTWORK: POLYESTER LAMINATED STEEL WIRE INNER CORE, R-6 LOW DENSITY FIBERGLASS BLANKET INSULATION WITH REINFORCED POLYESTER OUTER JACKET AND VAPOR BARRIER, UL STD. 181 APPROVED, CLASS I CONNECTOR. FLEXIBLE DUCTWORK SHALL BE LIMITED TO 6'-0" IN LENGTH.

VOLUME DAMPERS: SHALL BE MULTIBLADE TYPE, CONSTRUCTED OF ASTM-A-525 HOT DIPPED GALVANIZED SHEET METAL. FABRICATE DAMPERS IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.

DUCTWORK SEALANT: ALL DUCTWORK SEAMS AND JOINTS SHALL BE SEALED WITH A NON-HARDENING, NON-MIGRATING SEALANT, 3% MAXIMUM ALLOWABLE DUCT SYSTEM LEAKAGE. SEALANT SHALL BE CLEAR IN COLOR.

DUCTWORK SUPPORT MATERIALS: GALVANIZED STEEL FASTENERS, ANCHORS, RODS, STRAPS, AND TRIM.

### PIPING:

AIR CONDITIONING CONDENSATE DRAINS: SCHEDULE 40 PVC PIPE, ASTM D2665 WITH SOCKET FITTINGS AND SOLVENT CEMENTED JOINTS.

REFRIGERANT LIQUID AND SUCTION PIPING: HARD OR SOFT COPPER TUBE, ASTM B220, TYPE ACR, WITH BROSIGHT COPPER FITTINGS, ASME B16.22. AHS AS-8 SILVER BRAZED JOINTS WITH CLASS BAG-1 FILLER. INSULATE PIPING WITH 3/4" THICK BY 6.0 P.C.F. DENSITY CLOSED CELL FLEXIBLE TUBULAR INSULATION.

## MECHANICAL LEGEND

	DUCT SIZE
	DUCT SECTION, RETURN AIR
	DUCT SECTION, SUPPLY AIR
	VOLUME DAMPER
	TRANSITION
	TURNING VANES
	FLEXIBLE CONNECTION
	FLEX DUCT
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	CUBIC FEET PER MINUTE
	EXHAUST FAN
	ROOFTOP UNIT
	THERMOSTAT

## PACKAGED ROOFTOP UNIT SCHEDULE (HOT WATER HEAT/DX COOLING)

TAG	MANUFACTURER	MODEL	AREA SERVED	CFM		SUPPLY FAN				DX COOLING (MODULATING)				HOT WATER HEATING COIL				FILTER	ELECTRICAL CHARACTERISTICS			OPERATING HEIGHT (LB)	NOTES				
				SA	OA	HP	TSP INCH	ESP INCH	MBH (TOT)	MBH (SENS)	EAT		LAT		REFRIG (TYP)	MBH	AIR		WATER								
											DB	WB	DB	WB			EAT		LAT	GPM	ENT			LMT			
RTU-1	AAON	RNA-030-C-A-3-SABOC-KOAJ0	GYMNASIUM	6230	2300	4.15	2.71	1.0	31.1	210.3	82.0	61.8	50.3	50.1	R-454B	225.3	44.2	75.9	22.7	180.0	154.6	MERV-8	208/3/60	128.0	150.0	2484	1,2,3,4,5,6,7,8,9,10
RTU-2	AAON	RQA-003-A-A-3-GBAOA-CBIL0	OFFICES	1025	105	0.54	1.85	1.0	36.9	26.2	TTJ	64.5	51.1	50.5	R-454B	50.6	62.1	111.2	5.0	180.0	154.2	MERV-8	208/3/60	26.0	35.0	860	1,2,3,5,6,7,8,9,10

### NOTES:

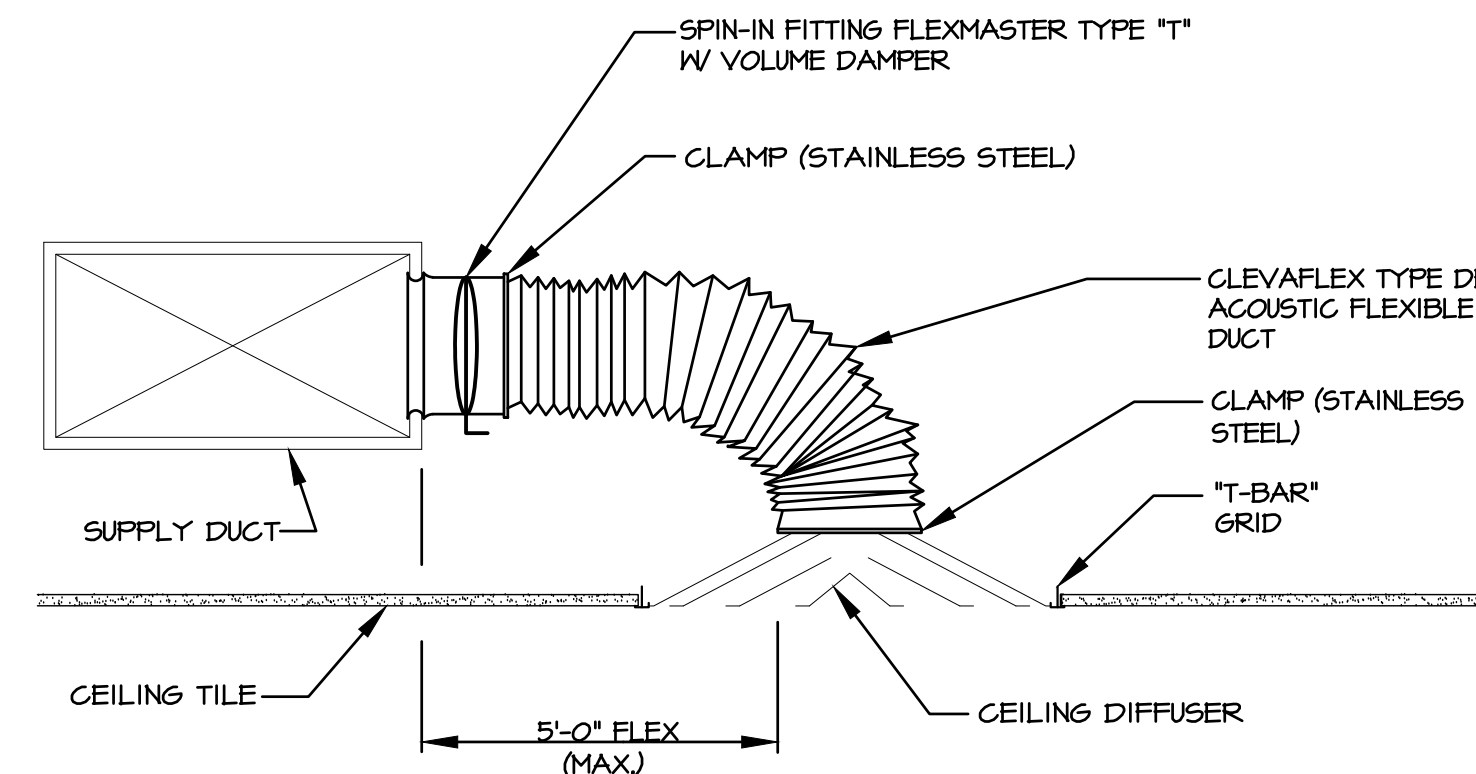
- PROVIDE UNIT MOUNTED NON-FUSED DISCONNECT SWITCH.
- PROVIDE FULLY MODULATING ENTHALPY ECONOMIZER.
- PROVIDE WITH 14" HIGH FULL PERIMETER ROOF CURB. SEE ROOF PLAN
- PROVIDE RETURN AIR SMOKE DETECTOR WIRE TO SHUT DOWN UNIT IF COMBUSTION PRODUCTS ARE SENSED.
- PROVIDE WITH BAROMETRIC RELIEF FOR 100% O.A.
- PROVIDE WITH STAINLESS STEEL IAQ COIL DRAIN FAN.
- PROVIDE CONDENSER COIL HALL GUARDS.
- PROVIDE W/CONDENSATE FAN FLOAT SWITCH WIRED TO SHUT DOWN UNIT IF DRAIN FAN FLUID LEVEL BECOMES TOO HIGH.
- PROVIDE WALL MOUNTED 7 DAY/WEEK, 4 PROGRAM/DAY, OCCUPIED/UNOCCUPIED, HEATING/COOLING THERMOSTATS.
- PROVIDE HEATING COIL WITH FREEZE PROTECTION.

## GRILLE SCHEDULE

TAG	SIZE	BORDER	MANUFACTURER	MODEL	NOTES
SG-1	20 X 10	SURFACE	TITUS	DL-SV	1,2,3
SG-2	24 X 24	LAY IN	TITUS	TH5	1,2
SG-3	12 X 12	LAY IN	TITUS	TH5	1,2
RG-1	48 X 48	SURFACE	TITUS	BSORL	1,2
RG-2	24 X 24	LAY IN	TITUS	50F	1,2
RG-3	12 X 12	LAY IN	TITUS	50F	1,2

### NOTES:

- PROVIDE WITH MANUFACTURER'S RECOMMENDED MOUNTING FRAME.
- PROVIDE WITH FINISH AS SELECTED BY ARCHITECT.
- INSTALL BLADES AT A 45° THROW ANGLE.



## FLEX AND DIFFUSER DETAIL

N.T.S.

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## GENERAL NOTES

- DO NOT SCALE DRAWINGS TO ESTABLISH DIMENSIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PETER M. MEDICA RA016195

MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

**BMA**  
**BONNETT MEDICA ASSOCIATES INCORPORATED**  
 ARCHITECTS • PLANNERS  
 ENGINEERS • PROJECT MANAGERS

1242 WEST CHESTER PIKE • SUITE 11  
 WEST CHESTER, PA 19382  
 TELEPHONE 610 • 368 • 6678

CLIENT:



MAPLE NEWTOWN SCHOOL DISTRICT  
 40 MEDIA LINE ROAD  
 NEWTOWN SQUARE, PA 19073

PROJECT NAME:  
 GYM HVAC RENOVATIONS AT GAUNTLETT CENTER  
 40 MEDIA LINE ROAD  
 NEWTOWN SQUARE, PA 19073

DRAWING NAME:  
 HVAC NOTES, SCHEDULES, AND DETAILS: ALTERNATE BID

DATE:  
 01/30/2026

SCALE:  
 AS NOTED

DRAWN BY:  
 LGS

CHECKED BY:  
 SG

PROJECT NUMBER:  
 25113.00

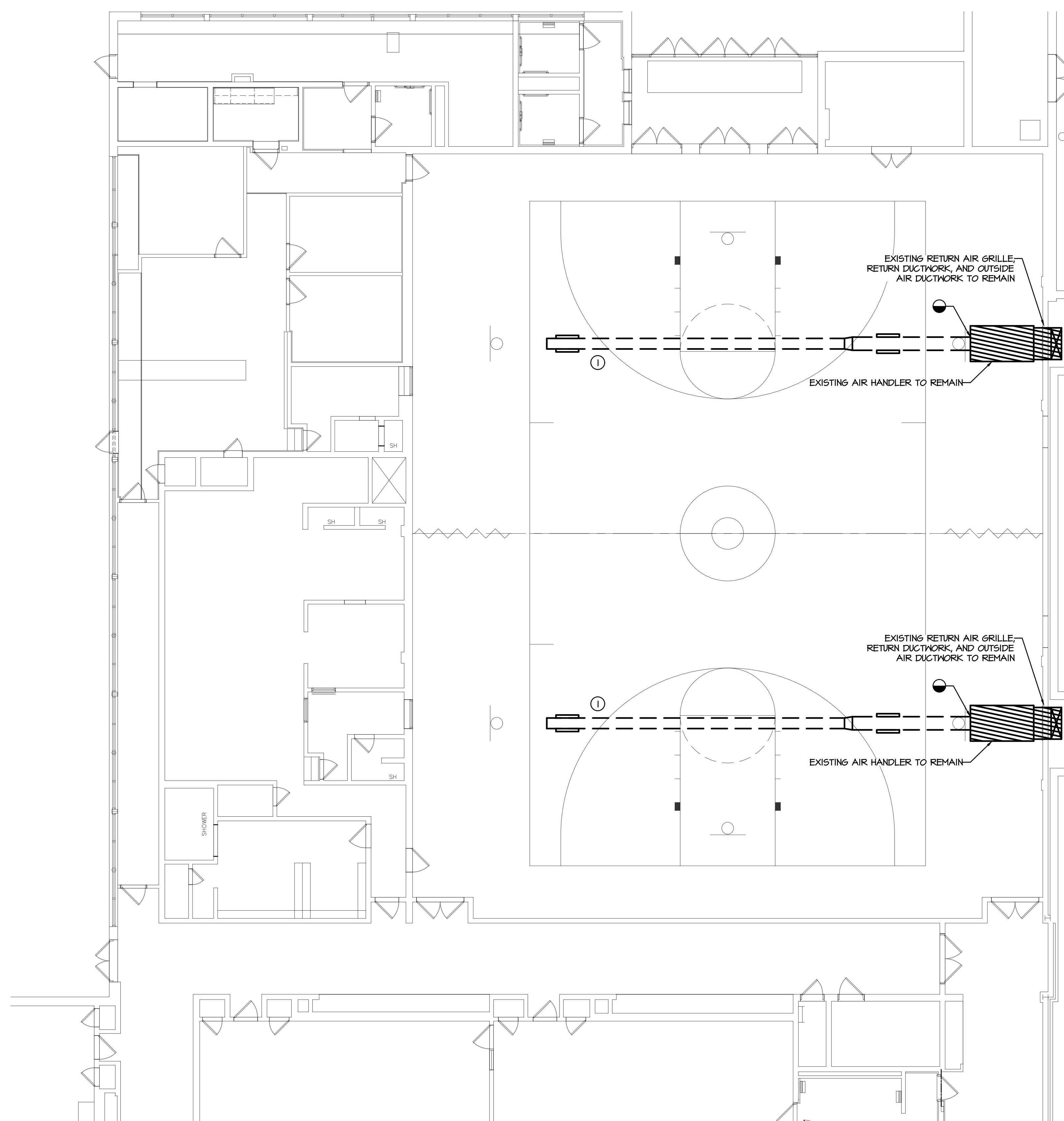
CADD FILE:  
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DRAWING NUMBER:

**H002**

GENERAL NOTES

1. DO NOT SCALE DRAWINGS TO ESTABLISH DIMENSIONS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



DEMOLITION NOTES:

1. CONTRACTOR SHALL REMOVE ALL EXISTING SUPPLY DUCTWORK BACK TO EXISTING AIR HANDLING UNIT, SUPPLY GRILLES, AND DUCT SUPPORT HANGERS; CONTRACTOR SHALL RETAIN EXISTING DUCT SMOKE DETECTORS FOR REINSTALLATION.

1 HVAC DEMOLITION PLAN  
SCALE: 1/8" = 1'-0"  
4' 0' 4' 8' 12' 16' 20'

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BONNETT MEDICA ASSOCIATES INCORPORATED  
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CLIENT:



MAPLE NEWTOWN SCHOOL DISTRICT  
40 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

PROJECT NAME:  
GYM HVAC RENOVATIONS AT GAUNTLETT CENTER  
40 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

DRAWING NAME:  
HVAC DEMOLITION PLAN:  
BASE BID

DATE:  
01/30/2026

SCALE:  
AS NOTED

DRAWN BY:  
LGS

CHECKED BY:  
SG

PROJECT NUMBER:  
25113.00

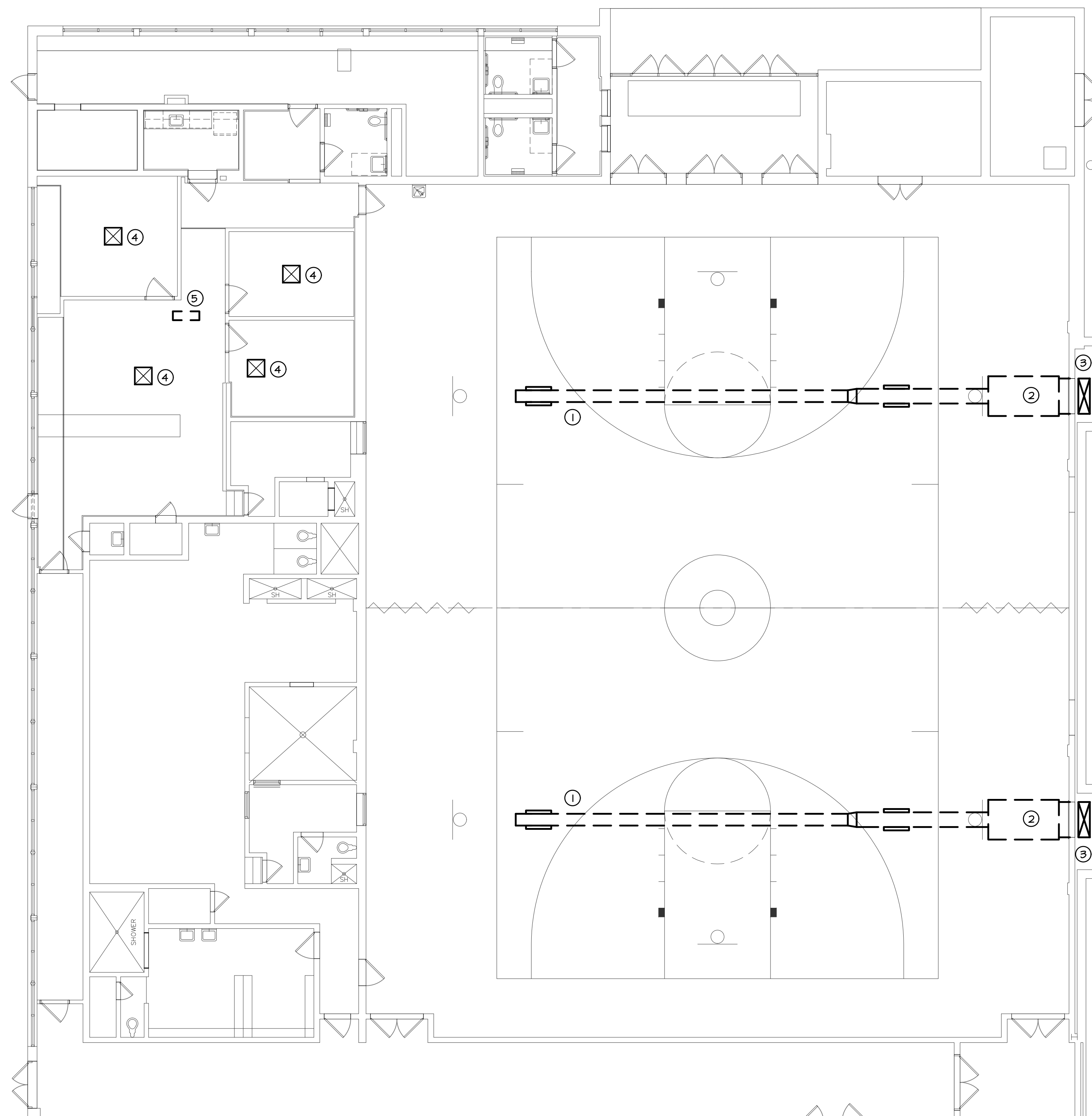
CADD FILE:  
25113.00a100-110.dwg

DRAWING NUMBER:

H003D

GENERAL NOTES

- DO NOT SCALE DRAWINGS TO ESTABLISH DIMENSIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



DEMOLITION NOTES:

- CONTRACTOR SHALL REMOVE ALL EXISTING SUPPLY DUCTWORK BACK TO EXISTING AIR HANDLING UNIT, SUPPLY GRILLES, AND DUCT SUPPORT HANGERS. CONTRACTOR SHALL RETAIN EXISTING DUCT SMOKE DETECTORS FOR REINSTALLATION ELSEWHERE.
- CONTRACTOR SHALL REMOVE EXISTING AIR HANDLER AND ALL ASSOCIATED CONTROLS, SUPPORTS, AND ACCESSORIES.
- CONTRACTOR SHALL GAP ALL EXISTING OUTSIDE AIR DUCTWORK ON THE ROOF PRIOR TO IT ENTERING THE EXISTING CHASE. CONTRACTOR SHALL INSTALL AN INSULATED PANEL BEHIND THE EXISTING RETURN GRILLE, REMOVE AND REINSTALL EXISTING RETURN GRILLE AS REQUIRED.
- CONTRACTOR SHALL REMOVE EXISTING INDOOR EVAPORATOR AS WELL AS ALL ASSOCIATED REFRIGERANT PIPING, INSULATION, SUPPORTS, AND CONTROLS/THERMOSTATS.
- CONTRACTOR SHALL REMOVE EXISTING CONDENSING UNIT ON ROOF AS WELL AS ALL ASSOCIATED REFRIGERANT PIPING, INSULATION, SUPPORTS, CONTROLS, AND ELECTRICAL EQUIPMENT. GENERAL CONTRACTOR SHALL PATCH EXISTING ROOF PENETRATIONS FOLLOWING REMOVALS BY MECHANICAL CONTRACTOR.

1 HVAC DEMOLITION PLAN: ALTERNATE  
SCALE: 3/8"=1'-0"  
4' 0' 4' 8' 12' 16' 20'

PETER M. MEDICA RA016195

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WEST CHESTER, PA 19382  
TELEPHONE 610 • 368 • 6678

CLIENT:



MAPLE NEWTOWN SCHOOL DISTRICT  
40 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

PROJECT NAME:  
GYM HVAC RENOVATIONS AT GAUNTLETT CENTER  
40 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

DRAWING NAME:  
HVAC DEMOLITION PLAN:  
ALTERNATE BID

DATE:  
01/30/2026

SCALE:  
AS NOTED

DRAWN BY:  
LGS

CHECKED BY:  
SG

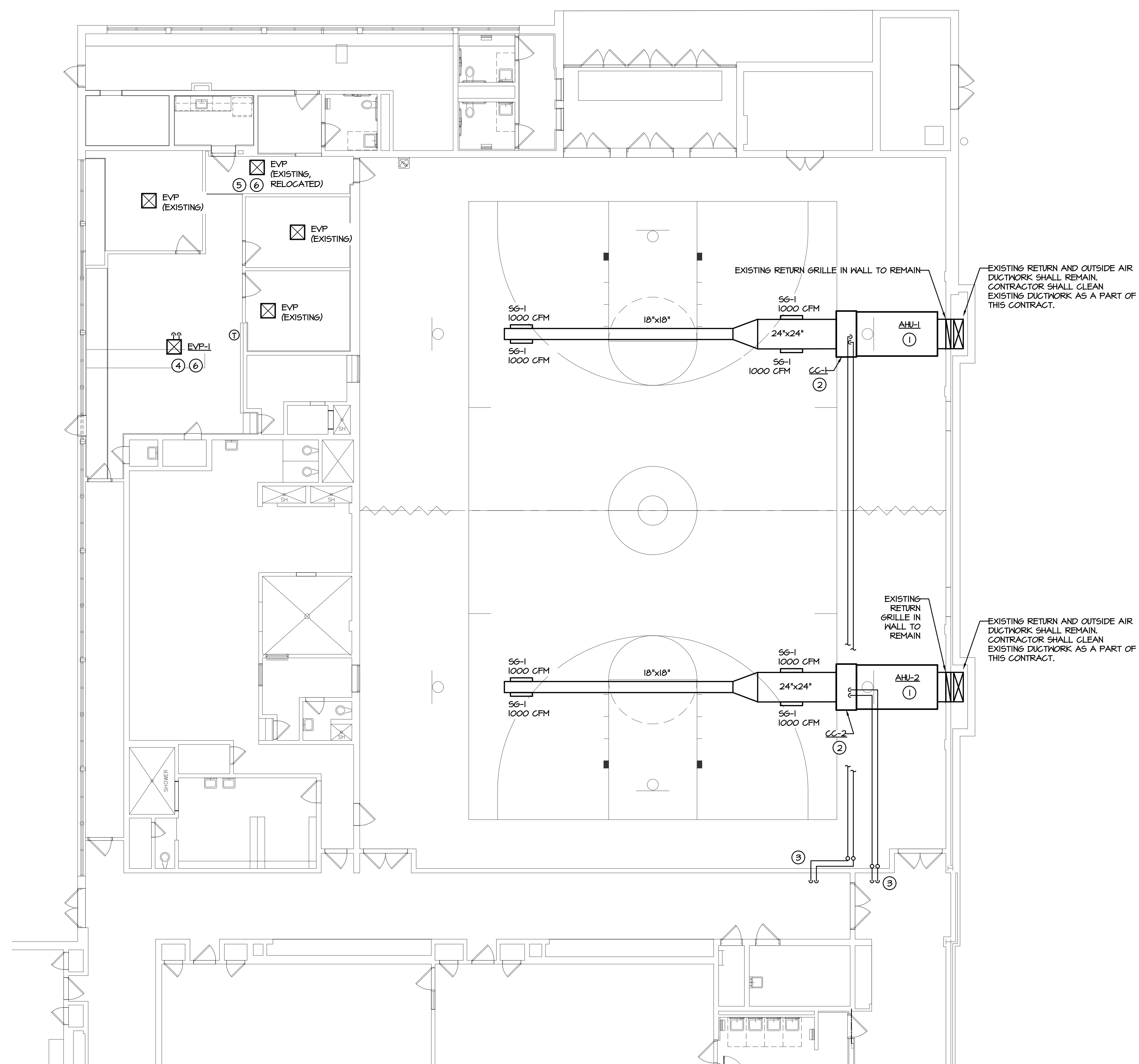
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25113.00  
CADD FILE:  
25113.00a100-110.dwg

DRAWING NUMBER:

H004D

GENERAL NOTES

- DO NOT SCALE DRAWINGS TO ESTABLISH DIMENSIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



GENERAL NOTES:

- CONTRACTOR SHALL COORDINATE THERMOSTAT LOCATIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. PROVIDE THERMOSTATS WITH TAMPER-PROOF COVERS.
- CONTRACTOR SHALL REINSTALL EXISTING DUCT DETECTORS IN NEW DUCTWORK.

DRAWING NOTES:

- CONTRACTOR SHALL RETAIN EXISTING AIR HANDLING UNIT. CONTRACTOR SHALL CLEAN ALL EXISTING HEAT EXCHANGERS AND INTERIOR OF THE AIR HANDLER AS A PART OF THIS CONTRACT.
- CONTRACTOR SHALL INSTALL NEW COOLING COIL AT OUTLET OF EXISTING AIR HANDLING UNIT. CONTRACTOR SHALL INSTALL SUPPLY DUCT AT OUTLET OF COOLING COIL. NEW COOLING COIL SHALL BE CONTROLLED VIA TEMPERATURE SENSOR AND SHALL BE INTEGRATED WITH EXISTING AIR HANDLER CONTROLS. ELECTRICAL CONTRACTOR SHALL RECONNECT DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM.
- REFRIGERANT LINES SHALL BE RUN DOWN THROUGH THE ROOF, THROUGH THE WALL BELOW THE ROOF LINE, AND UP ON THE INSIDE OF THE GYM WALL TO BE HORIZONTALLY RUN TO THE COOLING COILS. SEE ROOF PLAN DWG H201 FOR CONTINUATION OF REFRIGERANT LINES.
- INSTALL NEW INDOOR EVAPORATOR IN LARGE OFFICE SPACE. SEE ROOF PLAN DWG H201 FOR CORRESPONDING CONDENSING UNIT ON ROOF.
- CONTRACTOR SHALL RELOCATE EXISTING LARGE OFFICE INDOOR UNIT TO THE LOCATION SHOWN. MODIFY ALL REFRIGERANT LINES AND ACCESSORIES AS NECESSARY TO ACCOMMODATE THE NEW LOCATION.
- MECHANICAL CONTRACTOR SHALL REMOVE AND REPLACE CEILING TILE AND GRID AS REQUIRED TO ACCOMMODATE RELOCATION OF OFFICE INDOOR UNIT AND PROVISION OF NEW OFFICE INDOOR UNIT EVP-1. REPLACE ALL CEILING TILES DAMAGED DURING THIS PROJECT. CEILING TILE AND GRID TO MATCH EXISTING.

1 HVAC NEW WORK PLAN: BASE BID  
 SCALE: 1/4"=1'-0"  
 4' 0' 4' 8' 12' 16' 20'

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CLIENT:



MAPLE NEWTOWN SCHOOL DISTRICT  
 40 MEDIA LINE ROAD  
 NEWTOWN SQUARE, PA 19073

PROJECT NAME:  
 GYM HVAC RENOVATIONS AT GAUNTLETT CENTER  
 40 MEDIA LINE ROAD  
 NEWTOWN SQUARE, PA 19073

DRAWING NAME:  
 HVAC NEW WORK PLAN:  
 BASE BID

DATE:  
 01/30/2026

SCALE:  
 AS NOTED

DRAWN BY:  
 LGS

CHECKED BY:  
 SG

PROJECT NUMBER:  
 25113.00

CADD FILE:  
 25113.00a100-110.dwg

DRAWING NUMBER:

H101

**GENERAL NOTES**

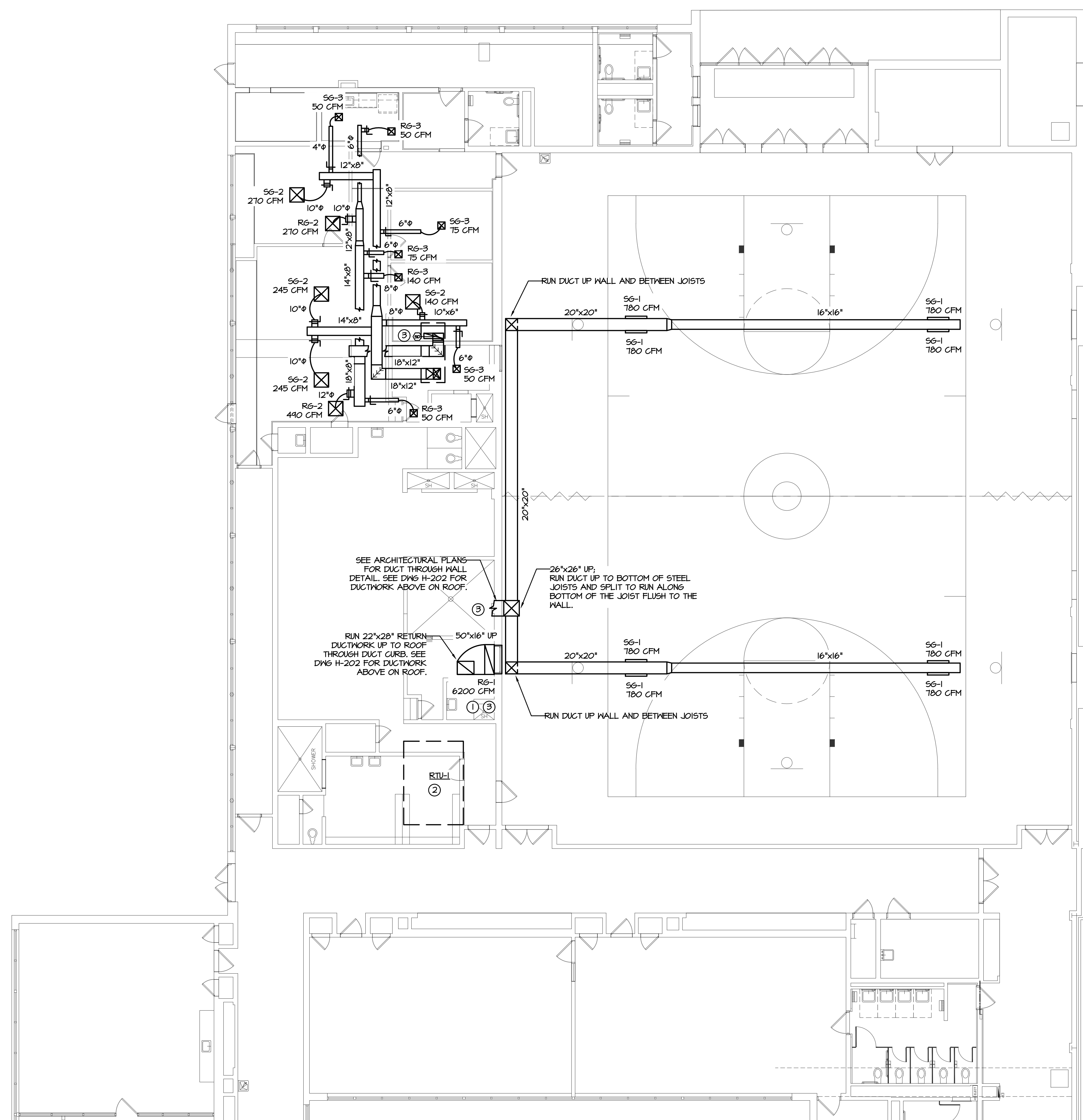
1. DO NOT SCALE DRAWINGS TO ESTABLISH DIMENSIONS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

**GENERAL NOTES:**

- ① ALL WORK SHOWN ON THIS DRAWING SHALL BE A PART OF THE ALTERNATE BID.
- ② CONTRACTOR SHALL COORDINATE THERMOSTAT LOCATIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. PROVIDE THERMOSTATS WITH TAMPER-PROOF COVERS.

**DRAWING NOTES:**

- ① HVAC CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR SIZE OF NEW OPENING REQUIRED TO ACCOMMODATE THE NEW RETURN GRILLE. HVAC CONTRACTOR SHALL INSTALL RETURN DUCTWORK TIGHT TO WALL OPENING BEHIND THE RETURN GRILLE.
- ② CONTRACTOR SHALL PROVIDE AND INSTALL ROOFTOP UNIT ON EXISTING DUNNAGE ON ROOF.
- ③ CONTRACTOR SHALL REINSTALL EXISTING DUCT SMOKE DETECTORS IN NEW DUCTWORK. ELECTRICAL CONTRACTOR SHALL RECONNECT DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM.



① HVAC NEW WORK PLAN:  
 ALTERNATE BID  
 SCALE: 3/8"=1'-0"  
 4' 0' 4' 8' 12' 16' 20'

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**BMA**  
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 WEST CHESTER, PA 19382  
 TELEPHONE 610 • 368 • 6678

CLIENT:



MARPLE NEWTOWN  
 SCHOOL DISTRICT  
 40 MEDIA LINE ROAD  
 NEWTOWN SQUARE, PA 19073

PROJECT NAME:  
 GYM HVAC RENOVATIONS AT  
 GAUNTLETT CENTER  
 40 MEDIA LINE ROAD  
 NEWTOWN SQUARE, PA 19073

DRAWING NAME:  
 HVAC NEW WORK PLAN:  
 ALTERNATE BID

DATE:  
 01/30/2026

SCALE:  
 AS NOTED

DRAWN BY:  
 LGS

CHECKED BY:  
 SG

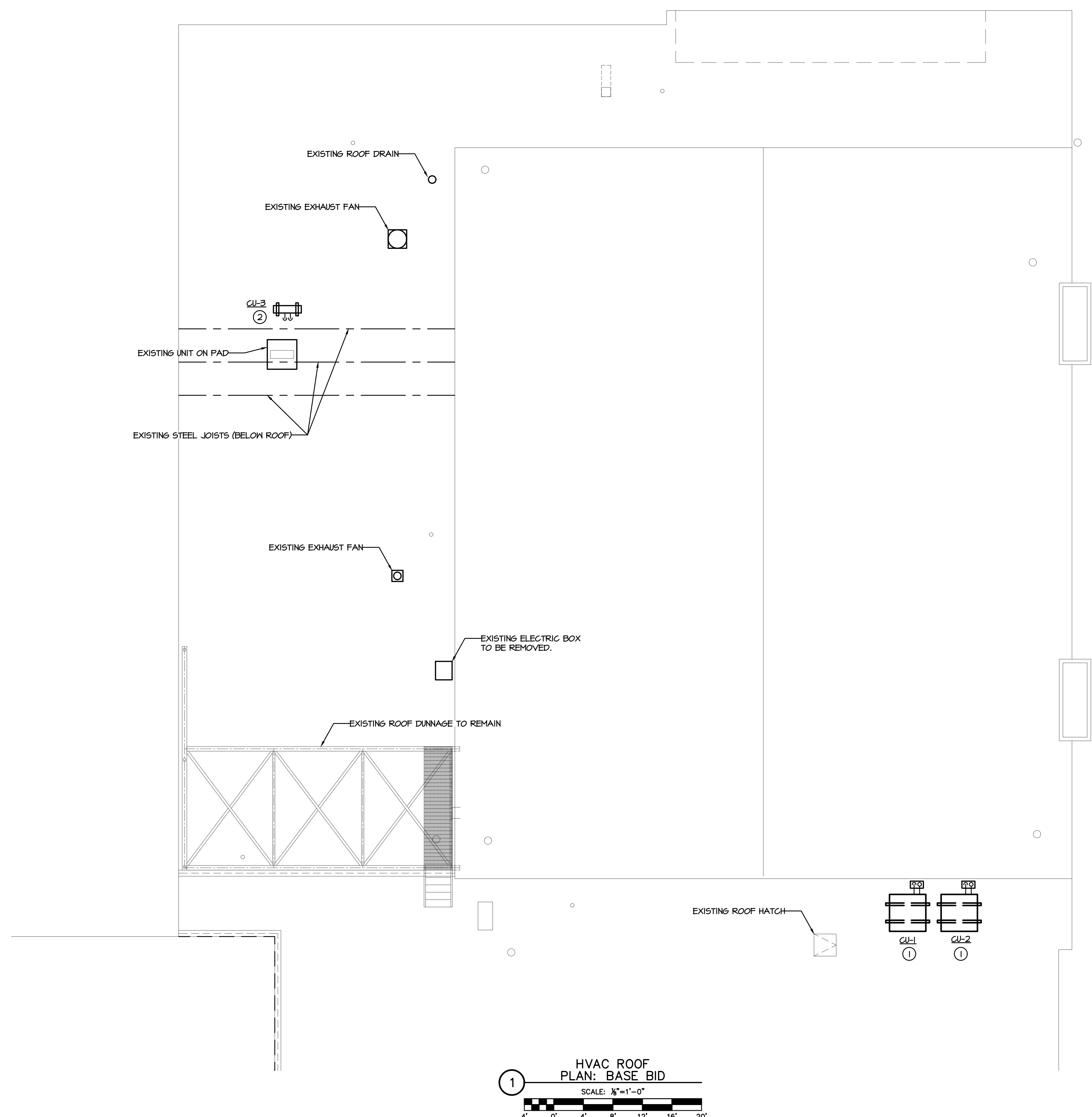
PROJECT NUMBER:  
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 CADD FILE:  
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DRAWING NUMBER:

**H102**

GENERAL NOTES

- DO NOT SCALE DRAWINGS TO ESTABLISH DIMENSIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



DRAWING NOTES:

- CONTRACTOR SHALL INSTALL NEW CONDENSING UNITS ON ROOF. CONTRACTOR SHALL MOUNT CONDENSING UNITS ON EQUIPMENT RAILS PER DETAIL ON DWG H-001, PROVIDE ROOF CURBS FOR REFRIGERANT LINES, SEE DETAIL ON DWG H-001.
- CONTRACTOR SHALL INSTALL NEW CONDENSING UNIT ON ROOF, CONTRACTOR SHALL MOUNT CONDENSING UNITS ON EQUIPMENT RAILS PER DETAIL ON DWG H-001, PROVIDE CURB FOR REFRIGERANT LINES.

1  
 HVAC ROOF  
 PLAN: BASE BID  
 SCALE: 1/4"=1'-0"  
 4' 0' 4' 8' 12' 16' 20'

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 WEST CHESTER, PA 19382  
 TELEPHONE 610 • 368 • 6678

CLIENT:



MAPLE NEWTOWN  
 SCHOOL DISTRICT  
 40 MEDIA LINE ROAD  
 NEWTOWN SQUARE, PA 19073

PROJECT NAME:  
 GYM HVAC RENOVATIONS AT  
 GAUNTLETT CENTER  
 40 MEDIA LINE ROAD  
 NEWTOWN SQUARE, PA 19073

DRAWING NAME:  
 HVAC ROOF PLAN:  
 BASE BID

DATE:  
 01/30/2026

SCALE:  
 AS NOTED

DRAWN BY:  
 LGS

CHECKED BY:  
 SG

PROJECT NUMBER:  
 25113.00

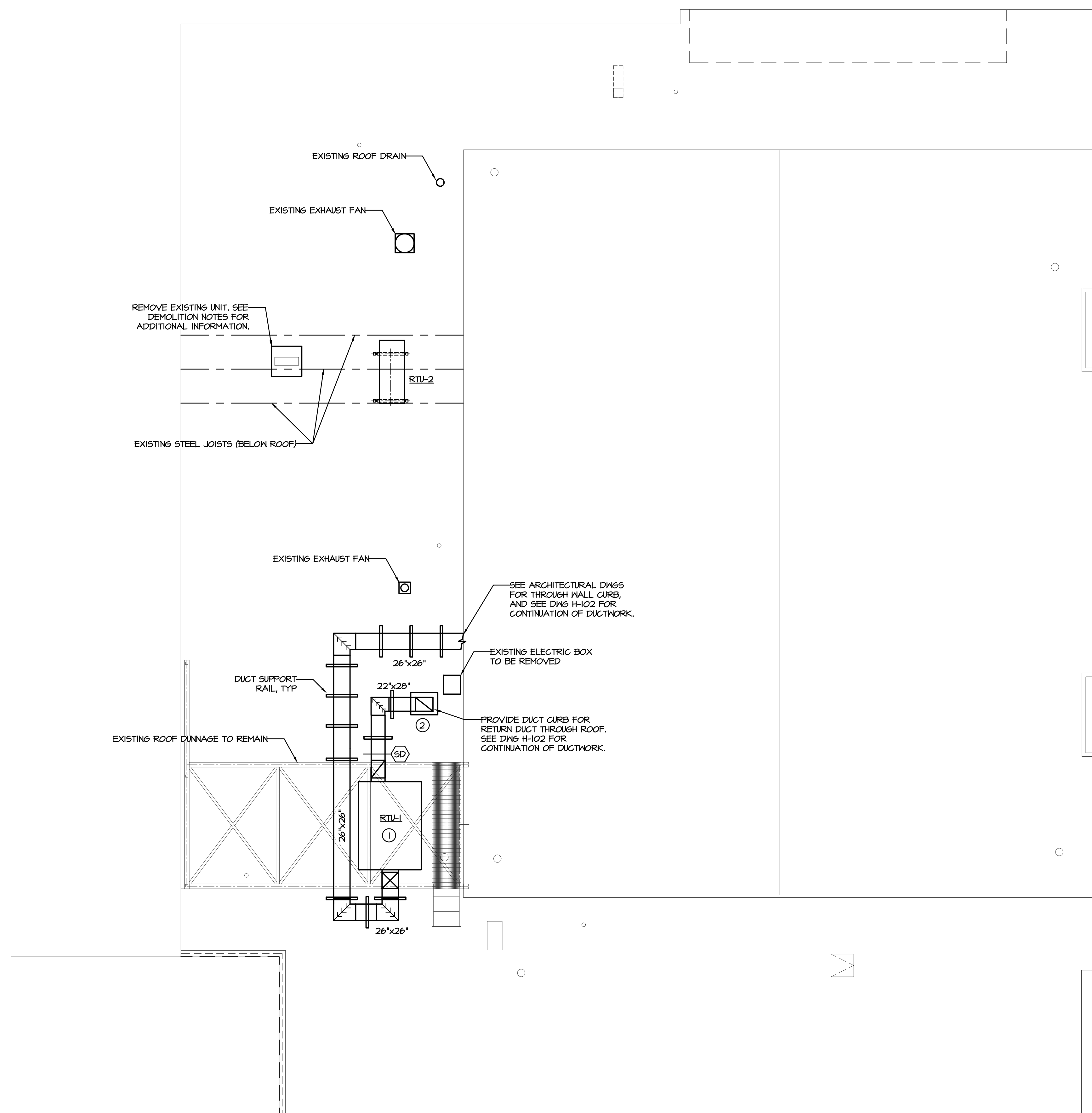
CADD FILE:  
 25113.00a100-110.dwg

DRAWING NUMBER:

H201

GENERAL NOTES

- DO NOT SCALE DRAWINGS TO ESTABLISH DIMENSIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



DRAWING NOTES:

- CONTRACTOR SHALL INSTALL NEW ROOFTOP UNIT ON EXISTING ROOF DUNNAGE.
- MECHANICAL CONTRACTOR SHALL SUPPLY AND INSTALL DUCT CURB. CONTRACTOR TO VERIFY ROOF CONSTRUCTION AND PROVIDE PRE-FABRICATED CURB TO MATCH EXISTING ROOF CONSTRUCTION BY PATE (OR EQUIVALENT MANUFACTURER). GENERAL CONTRACTOR SHALL PROVIDE ALL ROOFING AND FLASHING WORK ASSOCIATED WITH THE PROPER INSTALLATION OF THE CURB.

GENERAL NOTES:

- CONTRACTOR SHALL SEAL ALL DUCTWORK TO BE AIRTIGHT, AND PROVIDE ALL DUCTWORK ON ROOF WITH RIGID INSULATION OF CODE MINIMUM THICKNESS. CONTRACTOR SHALL PROVIDE ALL DUCTWORK ON ROOF WITH A WATERPROOF RUBBER MEMBRANE OVER THE INSULATION. CONTRACTOR SHALL SEAL ALL ROOFTOP DUCTWORK TO BE WEATHERTIGHT.
- CONTRACTOR SHALL PROVIDE ROOFTOP DUCT SUPPORT RAILS AT A MAXIMUM INTERVAL OF 4FT. COORDINATE SUPPORT RAIL LOCATIONS WITH EXISTING ROOF DUNNAGE LOCATION. ROOFTOP DUCT SUPPORT RAILS SHALL BE PATE MODEL "ES-1", PROVIDED BY THE MECHANICAL CONTRACTOR. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ROOFING AND FLASHING WORK ASSOCIATED WITH PROPER INSTALLATION.

1 HVAC ROOF PLAN:  
 ALTERNATE BID  
 SCALE: 3/8"=1'-0"

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 MEMBER OF THE AMERICAN  
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 MEDICA  
 ASSOCIATES  
 INCORPORATED  
 ARCHITECTS • PLANNERS  
 ENGINEERS • PROJECT MANAGERS

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 WEST CHESTER, PA 19382  
 TELEPHONE 610 • 368 • 6678

CLIENT:



MARPLE-NEWTOWN  
 SCHOOL DISTRICT  
 40 MEDIA LINE ROAD  
 NEWTOWN SQUARE, PA 19073

PROJECT NAME:  
 GYM HVAC RENOVATIONS AT  
 GAUNTLETT CENTER  
 40 MEDIA LINE ROAD  
 NEWTOWN SQUARE, PA 19073

DRAWING NAME:  
 HVAC ROOF PLAN:  
 ALTERNATE BID

DATE:  
 01/30/2026

SCALE:  
 AS NOTED

DRAWN BY:  
 LGS

CHECKED BY:  
 SG

PROJECT NUMBER:  
 25113.00  
 CADD FILE:  
 25113.00a100-110.dwg

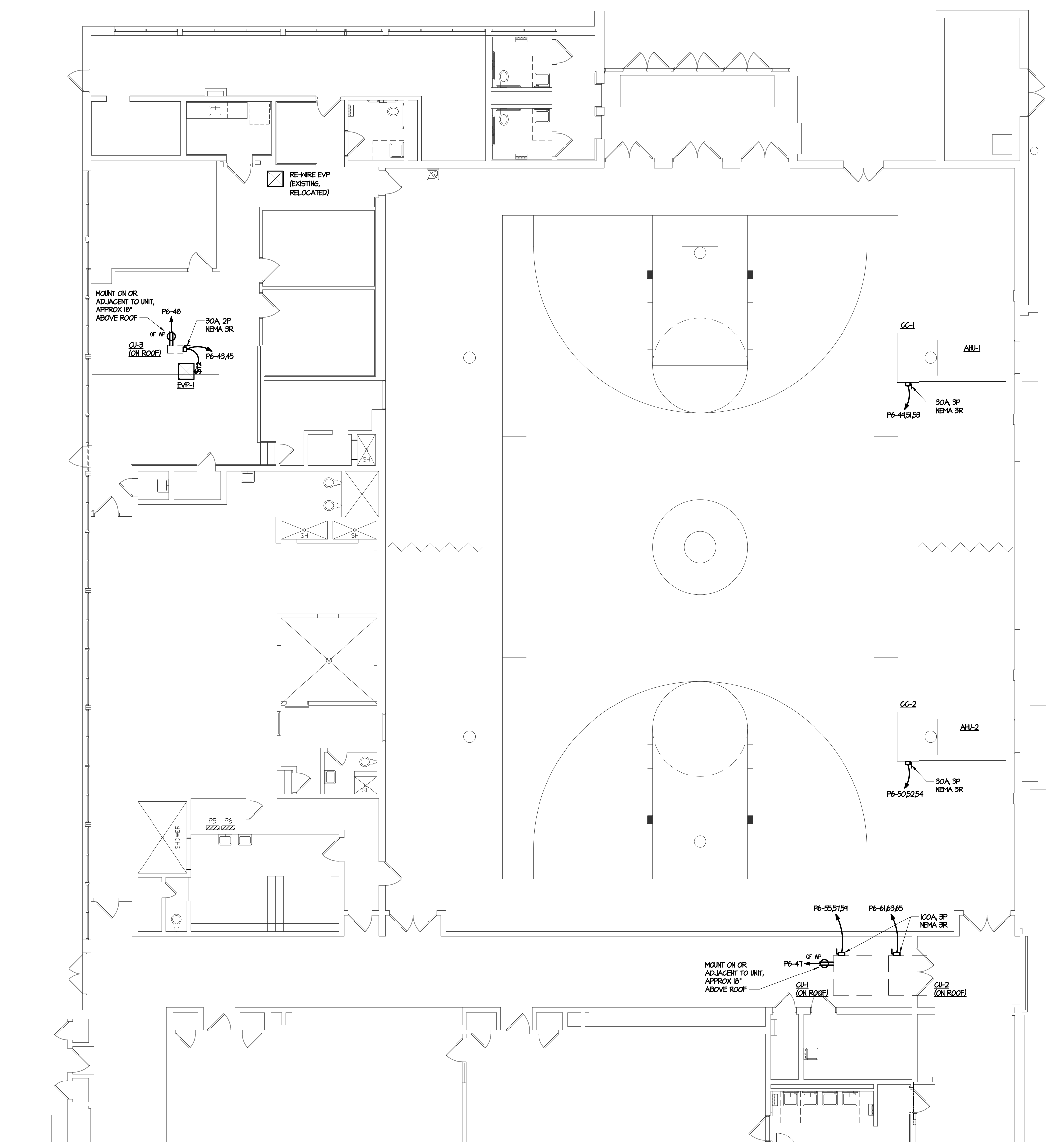
DRAWING NUMBER:

**H202**



GENERAL NOTES

- DO NOT SCALE DRAWINGS TO ESTABLISH DIMENSIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



EXISTING PANEL					
PANEL: P6'		AIC RATING: 10,000		MAIN: 225A MLO	
VOLTAGE: 208/120V, 3Ø, 4W		MOUNTING: SURFACE		FED FROM 225A/3P IN SDP	
C.B.	LOAD SERVED	CKT.	CKT.	LOAD SERVED	C.B.
20	1834 NEW CU-3/EVP-1	43	44	EXG LOAD	- 20
2		45	46	EXG LOAD	- 20
20	180 NEW ROOFTOP RECEPTACLE	47	48	NEW ROOFTOP RECEPTACLE	180 20
30		49	50		
3	1180 NEW CU-1	51	52	NEW CU-2	1180 30
		53	54		
80		55	56	EXG LOAD	- 20
3	26144 NEW CU-1	57	58	SPARE	- 20
		59	60	SPARE	- 20
80		61	62	EXG LOAD	- 20
3	26144 NEW CU-2	63	64	EXG LOAD	- 20
		65	66	SPARE	- 20
-	- PREPARED SPACE	67	68	SPARE	- 20
-	- PREPARED SPACE	69	70	SPARE	- 20
-	- PREPARED SPACE	71	72	SPARE	- 20
-	- PREPARED SPACE	73	74	SPARE	- 20
-	- PREPARED SPACE	75	76	SPARE	- 20
-	- PREPARED SPACE	77	78	SPARE	- 20
-	- PREPARED SPACE	79	80	SPARE	- 20
-	- PREPARED SPACE	81	82	SPARE	- 20
-	- PREPARED SPACE	83	84	SPARE	- 20

\* PROVIDE NEW CIRCUIT BREAKER

1 ELECTRICAL NEW WORK PLAN - BASE BID  
SCALE: 1/8"=1'-0"  
4' 0' 4' 8' 12' 16' 20'

PETER M. MEDICA RA016195  
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**BMA**  
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ENGINEERS • PROJECT MANAGERS

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WEST CHESTER, PA 19382  
TELEPHONE 610-368-6678

CLIENT:



MAPLE NEWTOWN SCHOOL DISTRICT  
40 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

PROJECT NAME:  
GYM HVAC RENOVATIONS AT GAUNTLETT CENTER  
40 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

DRAWING NAME:  
ELECTRICAL NEW WORK PLAN  
BASE BID

DATE:  
01/30/2026

SCALE:  
AS NOTED

DRAWN BY:  
CAR

CHECKED BY:  
SG

PROJECT NUMBER:  
25113.00

CADD FILE:  
25113.00a100-110.dwg

DRAWING NUMBER:

E101

GENERAL NOTES

- DO NOT SCALE DRAWINGS TO ESTABLISH DIMENSIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

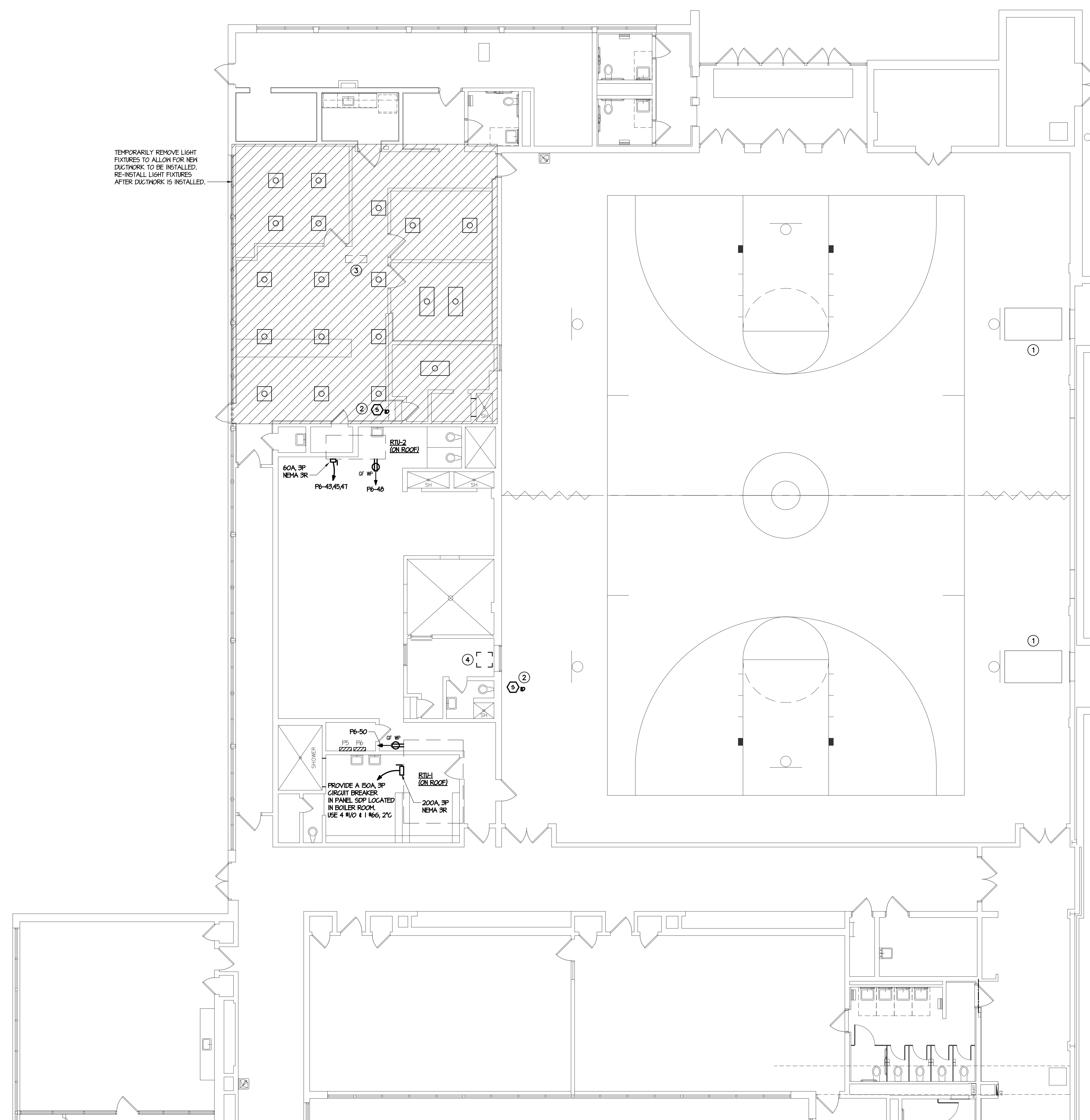
PANEL: P6'		AIC RATING: 10,000		EXISTING PANEL	
VOLTAGE: 208/120V, 3Ø, 4W		MOUNTING: SURFACE		MAIN: 225A MLO	
				FED FROM 225A/3P IN SDP	
C.B.	LOAD SERVED	CKT.	CKT.	LOAD SERVED	C.B.
35	9360	43	44	EXG LOAD	- 20
		45	46	EXG LOAD	- 20
3	NEW RTU-2	47	48	NEW ROOFTOP RECEPTACLE	180 20
		49	50	NEW ROOFTOP RECEPTACLE	180 20
-	-	51	52	SPARE	- 20
-	-	53	54	SPARE	- 20
-	-	55	56	EXG LOAD	- 20
-	-	57	58	SPARE	- 20
-	-	59	60	SPARE	- 20
-	-	61	62	EXG LOAD	- 20
-	-	63	64	EXG LOAD	- 20
-	-	65	66	SPARE	- 20
-	-	67	68	SPARE	- 20
-	-	69	70	SPARE	- 20
-	-	71	72	SPARE	- 20
-	-	73	74	SPARE	- 20
-	-	75	76	SPARE	- 20
-	-	77	78	SPARE	- 20
-	-	79	80	SPARE	- 20
-	-	81	82	SPARE	- 20
-	-	83	84	SPARE	- 20

\* PROVIDE NEW CIRCUIT BREAKER

KEYED DRAWING NOTES

- DISCONNECT AND REMOVE POWER WIRE AND CONDUIT TO UNIT BACK TO PANEL AND RE-LABEL CIRCUIT BREAKER AS SPARE. DISCONNECT AND REMOVE DUCT SMOKE DETECTOR. RETAIN DUCT SMOKE DETECTOR FOR RE-INSTALLATION. REMOVE FIRE ALARM CABLEING BACK TO JUNCTION BOX.
- COORDINATE RE-INSTALLATION OF EXISTING DUCT SMOKE DETECTOR WITH MECHANICAL CONTRACTOR. FURNISH AND INSTALL FIRE ALARM CABLEING IN CONDUIT TO RETAINED FIRE ALARM JUNCTION BOX AND RECONNECT AS REQUIRED. RE-PROGRAM FIRE ALARM FOR RE-INSTALLED DUCT DETECTORS.
- DISCONNECT AND REMOVE POWER WIRE AND CONDUIT TO UNIT BACK TO PANEL AND RE-LABEL CIRCUIT BREAKER AS SPARE.
- DISCONNECT AND REMOVE WHITE BOX LOCATED ON ROOF. REMOVE WIRE AND CONDUIT BACK TO SOURCE. RE-LABEL BREAKER AS SPARE.

TEMPORARILY REMOVE LIGHT FIXTURES TO ALLOW FOR NEW DUCTWORK TO BE INSTALLED. RE-INSTALL LIGHT FIXTURES AFTER DUCTWORK IS INSTALLED.



1 ELECTRICAL NEW WORK PLAN: ALTERNATES  
SCALE: 1/8"=1'-0"

PETER M. MEDICA RA016195  
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

**BMA**  
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1242 WEST CHESTER PIKE • SUITE 11  
WEST CHESTER, PA 19382  
TELEPHONE 610-368-6678

CLIENT:



MAPLE NEWTOWN SCHOOL DISTRICT  
40 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

PROJECT NAME:  
GYM HVAC RENOVATIONS AT GAUNTLETT CENTER  
40 MEDIA LINE ROAD  
NEWTOWN SQUARE, PA 19073

DRAWING NAME:  
ELECTRICAL NEW WORK PLAN:  
ALTERNATE BID

DATE:  
01/30/2026

SCALE:  
AS NOTED

DRAWN BY:  
CAR

CHECKED BY:  
SG

PROJECT NUMBER:  
25113.00

CADD FILE:  
25113.00a100-110.dwg

DRAWING NUMBER:

E102