

ADDENDUM NO. 2 – BID PACKAGE NO. 1

PROJECT NAME: UNL – Animal Science Reroof – Bid Package I – Standing Seam Metal Roof
UNL PROJECT NUMBER: A102P024

CONSULTANT: Architectural Design Associates
7501 'O' Street
Lincoln, NE 68510

DATE OF ISSUANCE: April 25, 2012
DATE OF BID OPENING: May 2, 2012

The bid documents dated March 22, 2012, for the above referenced project, are amended by this addendum.

NOTICE: This Addendum is issued to all interested prospective bidders as an amendment to the project manual or other parts of the bidding (contract) documents for the above named project. Reference to this Addendum must be included in the Bid proposal. The information contained herein shall be fully incorporated into the contract documents as though originally included therein.

GENERAL:

Clarifications from the Pre-bid meeting:

1. Note that there are 2 alternates. See Section 01 23 00 for alternates No. 1 and 2.

QUESTIONS AND MODIFICATIONS TO THE PROJECT MANUAL:

Section 00 21 13 – Instructions to Bidders

1. At page 3, under section 8.0 'Preparation of Bids', add paragraph H as follows: "H. If the Contractor chooses to provide a combined bid for the 'Total Cost – Bid Package No. 1 – Metal Roof & Bid Package 2 – EPDM Roof' the Contractor must complete and properly submit the 00 41 13 Bid Proposal Forms for both the Bid Package 1 – Metal Roof Project and the Bid Package 2 – EPDM Roof Project."

Section 01 33 00 – Submittal Procedures

1. At page 2, under section 1.3, paragraph C-3 'Electronic Submission:' add a note that 'Submittal Exchange' website service will be used for submittals and contract administration document processing. The Owner will pay for this service.

Section 01 50 00 – Temporary Facilities

At page 4, under section 3.2 'Temporary Utility Installation', paragraph B, note that for Temporary electric power, the Contractor is allowed to tie into and utilize the Owner's existing electrical systems. Contractor is responsible to provide, install and remove all temporary connections and equipment needed from tie-in points to work areas.

Section 05 50 00 – Metal Fabrications

At page 3, add section 2.06 and 3.02 to provide and install 6 stainless steel roof fall protection tie-off supports as shown on the attached detail 1, sheet P1-8.

Section 07 41 13 – Metal Roof Panels

1. At page 2, under section 1.04 'Performance Requirements', paragraph D - Wind Uplift Resistance, delete the reference to UL 580 and item 1. Wind Uplift Rating UL90, and substitute the following:
"1. Wind Uplift Resistance: Provide metal roof panel assemblies that comply with FM wind uplift resistance class 1A-90."

2. At page 2, under section 1.04 'Performance Requirements', paragraph E – Fire/Windstorm Classification, note that the Class 1A-90 is an FM requirement and add the following:
"Provide metal roof panels and component materials that comply with requirements in FMG 4471 as part of a panel roofing system and that are listed in FMG's "Approval Guide" for Class 1 or noncombustible construction, as applicable. Identify materials with FMG markings."
3. At page 8, under section 3.04 'Metal Roof Panel Installation, General', at paragraph B – Thermal Movement, add paragraph No. 1 as follows: "1. The metal roof panels are to be rigidly fastened to structure at the roof ridge only."
4. At page 4, under section 1.10 'Warranty', add paragraph E as follows: "E. It is understood that if warranty roof repair is needed at roof areas under the Owner's solar panel system, the Owner will remove the solar panels and associated solar panel support system as needed to perform warranty repair."
5. At page 7, under section 2.04 'Snow Guard System, at paragraph A-3 'Products' add the following Approved product (provided the associated products and installation comply with the specifications):
 - a. Dynamic Fastener – S5 – Color Guard.
6. At page 5, under section 2.01 'Standing Seam Roof Panels', at paragraph B-1 'Basis of Design Product', add the following manufacturer and product as an approved equal (provided the associated products and installation comply with the specifications): MBCI – SuperLok (double folded - 180 degree seam).
7. At page 5, under section 2.01 'Standing Seam Roof Panels', at paragraph B-5, 'Surface:', note that a 'Striated' finish is also acceptable. Surface type selection to be made by the Architect from manufacturer's full range of panel surfaces.
8. At page 2, under section 1.04 'Performance Requirements', at paragraph G ' Thermal Movements', delete the temperature range of 120 deg. F, and substitute the temperature range of 190 deg. F, ambient; material surface (from -30 deg. F up to 160 deg. F).
9. At page 2 under section 1.04 'Performance Requirements', add paragraph H as follows:
"H. The design of the attachment of the roof to the roof structure shall be made to the 7/16" Oriented Strand Board (OSB) sheathing that makes up the top surface of the Tectum cementitious composite panels. The standing seam roof panels shall be positively attached to the roof near the ridge only, to resist the sliding of the panels. This connection of the standing seam panels shall resist block shear or net section rupture and tear out at the screw connection. All loading conditions and combinations of loading conditions per Factory Mutual I-90 and ASCE 7-2005 shall be considered. All loading conditions and combination of loading conditions, on the metal roof, resulting from the Owner's solar panels and panel support system (installed under separate contract) as shown, shall also be considered. The components and cladding pressure on the solar panels shall be equal to the vertical uplift force determined in accordance with Section 29.5.1 of ASCE7-2010 divided by the horizontal projected area of the solar panels and shall be considered to act in the upward direction. The projection of the solar panels above the roof is not anticipated to increase the snow load or catch sliding snow. The design of the roof attachment to the roof structure shall be performed by a Professional Structural Engineer registered in the State of Nebraska. Calculations shall be sealed and signed by a Professional Structural Engineer registered in the State of Nebraska and submitted for review, with the roof shop drawing submittal."

QUESTIONS AND MODIFICATIONS TO THE DRAWINGS:

DRAWING No. P1-0 – Cover Sheet

1. At the Site Plan, add a note that additional Contractor Roof Access Points will be needed. The locations of additional access points will be negotiated after the bid opening.
2. At the 'General Notes', add note J as follows: "J. All workers that enter the building or the east fenced area must have a UNL identification card (N-Card).

DRAWING No. P1-1 – Demolition Roof Plan

1. At 'General Roof Demo Notes', add note G as follows: "G. The composition of the existing standing seam metal roof system includes the existing standing seam roof on building felt. The roof deck is a Tectum III composite roof deck at the areas noted as 'Tectum Composite Roof Deck' on sheets P1-6 and P1-7. The roof deck is a metal deck at roof areas above Corridors B102 and B134 (see Sheet P1-6). The roof deck above the exterior plaster soffits is shown to be Tectum III composite roof deck (this is to be field verified). This roof information is available for the Contactor's information but is not a warranty of existing roof conditions or the continuity of such conditions.

DRAWING No. P1-2 – Roof Plan Renovation

1. At sheet note No. 30, delete the reference to 'Sanyo HIT 210' panel and note that the type 1 solar panels will be similar to 'Suniva Optimus Series Mono-crystalline Solar Modules OPTXXX-60-4-100.
2. At sheet note No. 31, delete the reference to 'Uni-Solar Laminate PVL Series' panel and note that the type 2 solar panels will be similar 'Helios Solar Works Mono-crystalline Solar Modules 7T2 Series.
3. At sheet notes No. 30, 31 and 32, note that the solar panel mounting system will be similar to UniRac Aceclamp Jr (or Dynamic Fastener S-5) with the UniRac SolarMount Standard Rail and associated accessories. The solar panel type and solar panel mounting system will be determined by the Owner. No solar panels will be adhered directly to the metal roof panels.
4. At 'General Roof Notes', add note J as follows:
"J. Delete the solar panel areas shown on the Arena D103 Roof, and note that the standing seam metal roof, on the south half of the Arena D103, is to be designed to accommodate solar panels and the associated solar panel mounting system, over the entire roof area, as shown on the attached partial roof plan - detail 3 sheet P1-7. Note that the solar panels and the solar panel mounting system will be selected by and provided by the Owner under a separate contract.
5. At 'General Roof Notes', add the following Note K:
"K. The separate Solar Panel Project will include electrical conduit runs. The conduit runs will mount to the standing seam metal roof with a mounting system similar to the UniRac Aceclamp Jr (or Dynamic Fastener S-5) with the UniRac SolarMount Standard Rail and associated accessories. The mounting system and final conduit locations will be determined by the Owner. See attached partial Roof Plan - detail 3 sheet P1-7 for approximate conduit run locations.
6. At 'General Roof Notes', add the following Note L:
"L. The separate Solar Panel Project will include a rooftop walkway system similar to 'Uni-Strut Rooftop Walkway System'. The walkway system will mount to the standing seam metal roof with a mounting system similar to the UniRac Aceclamp Jr (or Dynamic Fastener S-5) The mounting system and final location will be determined by the Owner. See attached partial Roof Plan - detail 3 sheet P1-7 for approximate walkway system location.
7. At Sheet Note No. 28, add the following: "See attached sheets 1 of 3, 2 of 3 and 3 of 3 from Farris Engineering for mechanical vent requirements. At the roof penetrations, each relocated vent is to have a box base sized to match the existing vent base boxes. Each box is to be pre-finished sheet metal cladding on 5/8" FRT OSB on 2x6 wood blocking with a prefinished sheet metal cricket on the high side. Provide adequate clearance between wood blocking and vent. Flash the box into the standing seam roof per roof manufacturer's current written instructions and details."
8. Add Sheet Note No. 33 as follows: "33. Include 6 stainless steel roof fall-protection tie-off supports to be attached to the existing steel roof beams above the Arena D103, at the locations shown on the attached partial Roof Plan - detail 3, sheet P1-7 and installed per the attached detail 1, sheet P1-8. The exact tie-off locations will be determined by the Architect. Include roof manufacturer's current standard roof penetration flashing system at tie-off penetration.

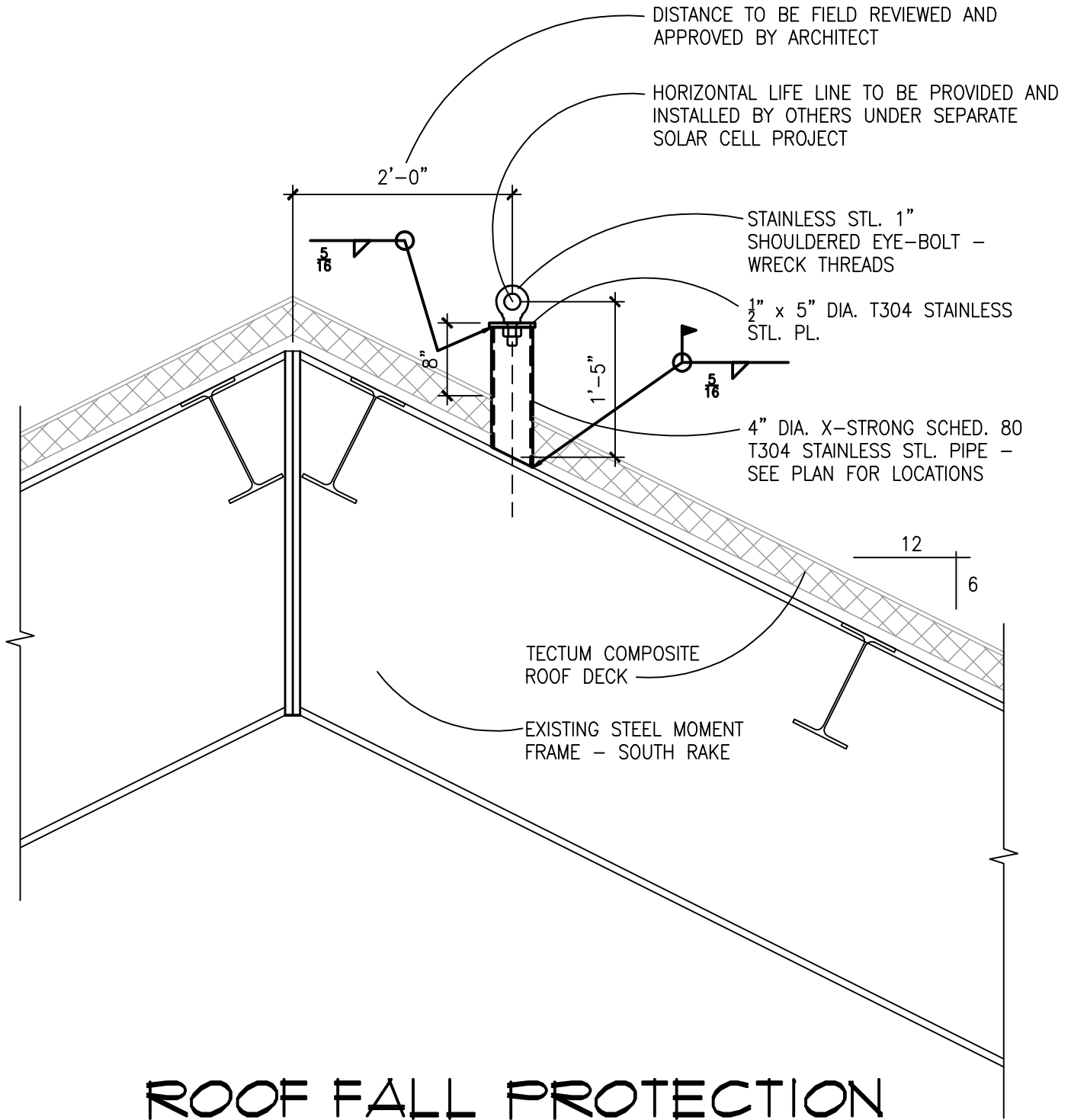
DRAWING No. P1-7

1. Add attached partial roof plan detail 3, sheet P1-7.

DRAWING No. P1-8

1. Add attached detail 1, sheet P1-8, 'Roof Fall-Protection Tie-Off Section Detail'.

End of Addendum No. 2 – Bid Package No. 1



1 ROOF FALL PROTECTION TIE-OFF SECTION DETAIL

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

ADDENDUM NO. 2

REVISIONS: UNL ANIMAL SCIENCE - REPROFOD - PHASE 1



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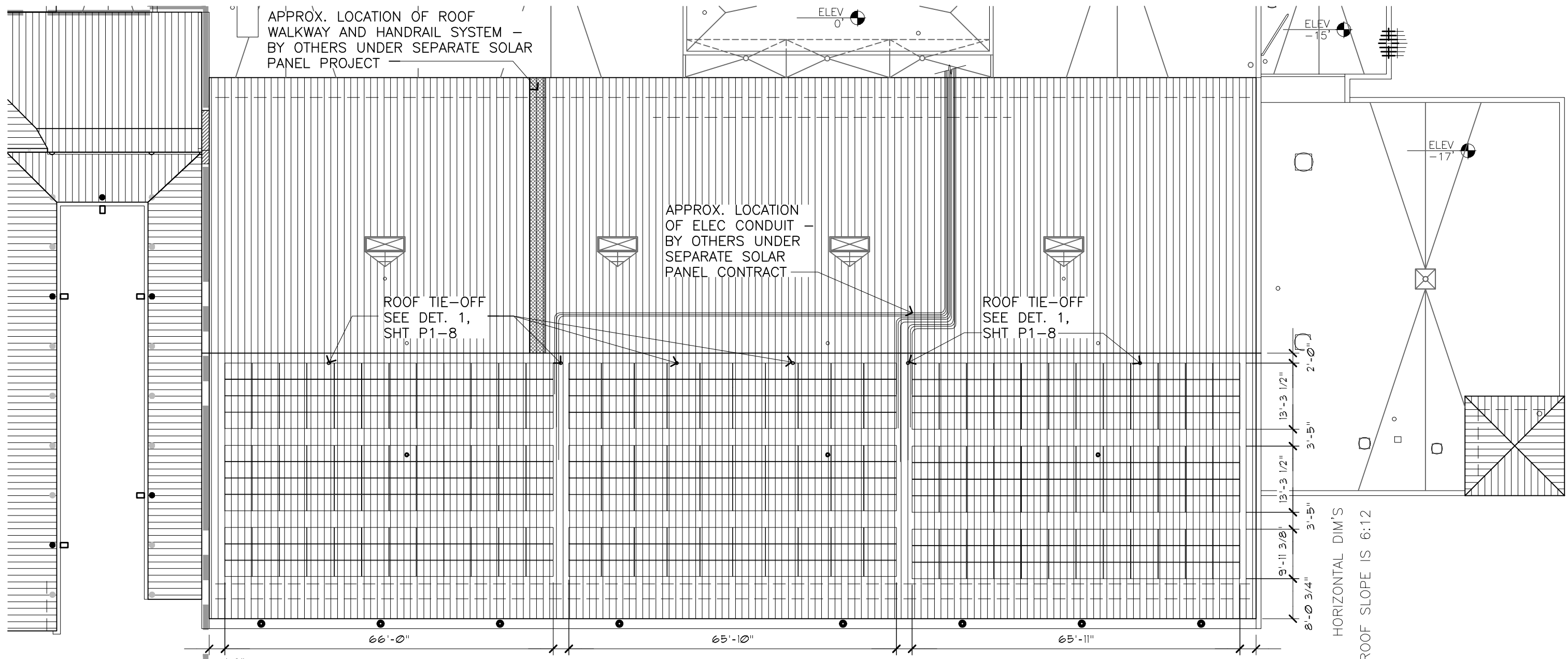
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DET 1
P1-8



AREA A1
AREA E

SOLAR PANEL TYPE 1

SIM TO: SUNIVA OPTIMUS OPTXXX-60-4-100
 PANEL WEIGHT: USE 2.72 LBS/SF
 PANEL SIZE: 65.1" x 38.7"
 TOTAL PANELS SHOWN: 132

SOLAR PANEL TYPE 2

SIM. TO: HELIOS 7T2 SERIES
 PANEL WEIGHT 2.72 LBS/SF
 PANEL SIZE: 78.1" x 38.7"
 TOTAL PANELS SHOWN: 110

SOLAR PANEL TYPE 3

SIM TO: TRINA TSM PA05
 PANEL WEIGHT: USE 2.72 LBS/SF
 PANEL SIZE: 65.0" x 39.1"
 TOTAL PANELS SHOWN: 132

NOTE: SOLAR PANELS AND ASSOCIATED MOUNTING SYSTEM TO BE BY OTHERS UNDER SEPARATE SOLAR PANEL PROJECT.

ARENA D103 ROOF PLAN
APPROX. SOLAR PANEL LOCATIONS AT SOUTH ROOF AREA

ADDENDA NO. 2 - 4/25/2012

SCALE: 1" = 20'-0"

UNL ANIMAL SCIENCE - REROOF - PHASE 1

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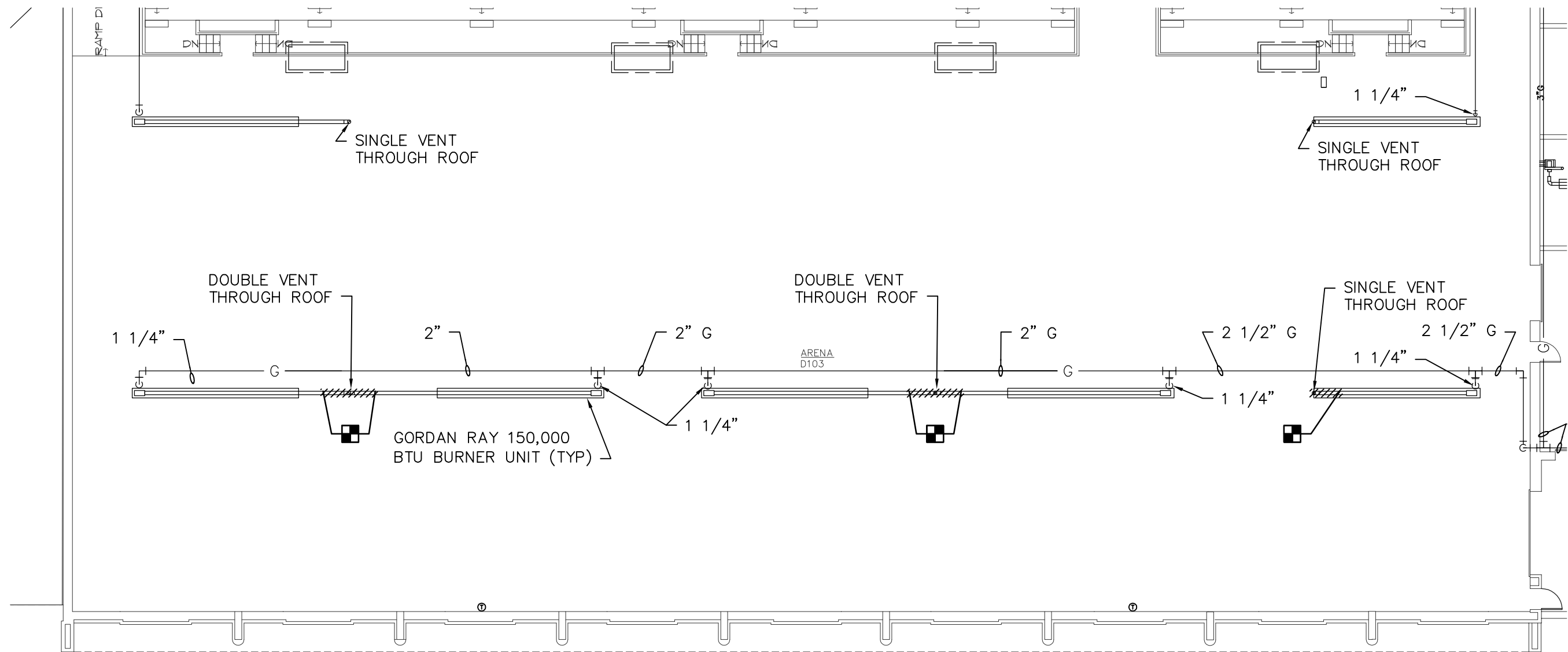
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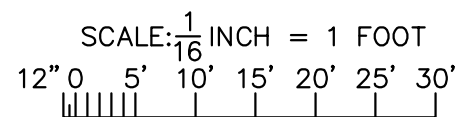
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DET 3
P1-7



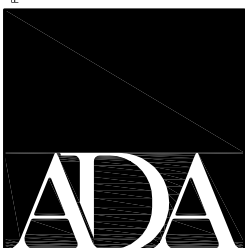
PARTIAL FIRST FLOOR MECHANICAL DEMOLITION PLAN – AREA D



DEMOLITION GENERAL NOTES

1. ALL EXISTING DUCTWORK, PIPING, EQUIPMENT AND ACCESSORIES ARE NOT NECESSARILY SHOWN ON THIS DRAWING. EXISTING SYSTEMS SHOWN ARE AS DEEMED NECESSARY TO INTENT OF DEMOLITION WORK INVOLVED IN THIS PROJECT
2. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF ANY WORK, AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE ACTUAL FIELD CONDITIONS. NO WORK SHALL BE PERFORMED IN THE AFFECTED AREA UNTIL A RESOLUTION HAS BEEN ESTABLISHED.
3. ALL DUCTWORK, PIPING, EQUIPMENT, ETC. SHOWN CROSSHATCHED IS DESIGNATED FOR REMOVAL UNLESS SPECIFICALLY NOTED OTHERWISE.
4. CONTRACTOR SHALL REMOVE ALL MATERIALS AS REQUIRED AND SHALL GIVE THE OWNER THE OPPORTUNITY TO INSPECT SUCH MATERIALS FOR POTENTIAL SALVAGE. CONTRACTOR SHALL REMOVE FROM THE SITE ALL MATERIALS DEEMED "NON-SALVAGEABLE" BY THE OWNER. CONTRACTOR SHALL TURN OVER TO OWNER ALL MATERIALS DEEMED "SALVAGEABLE" BY THE OWNER.
5. CONTRACTOR SHALL PROVIDE WORK IN PHASES REQUIRED BY THE CONTRACT DOCUMENTS WHILE MINIMIZING POTENTIAL WORK DELAYS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. REMOVE, REPAIR, AND REPLACE ROOFING TO MATCH EXISTING, WHERE NECESSARY FOR PIPING AND FIXTURE REMOVAL AND INSTALLATION.

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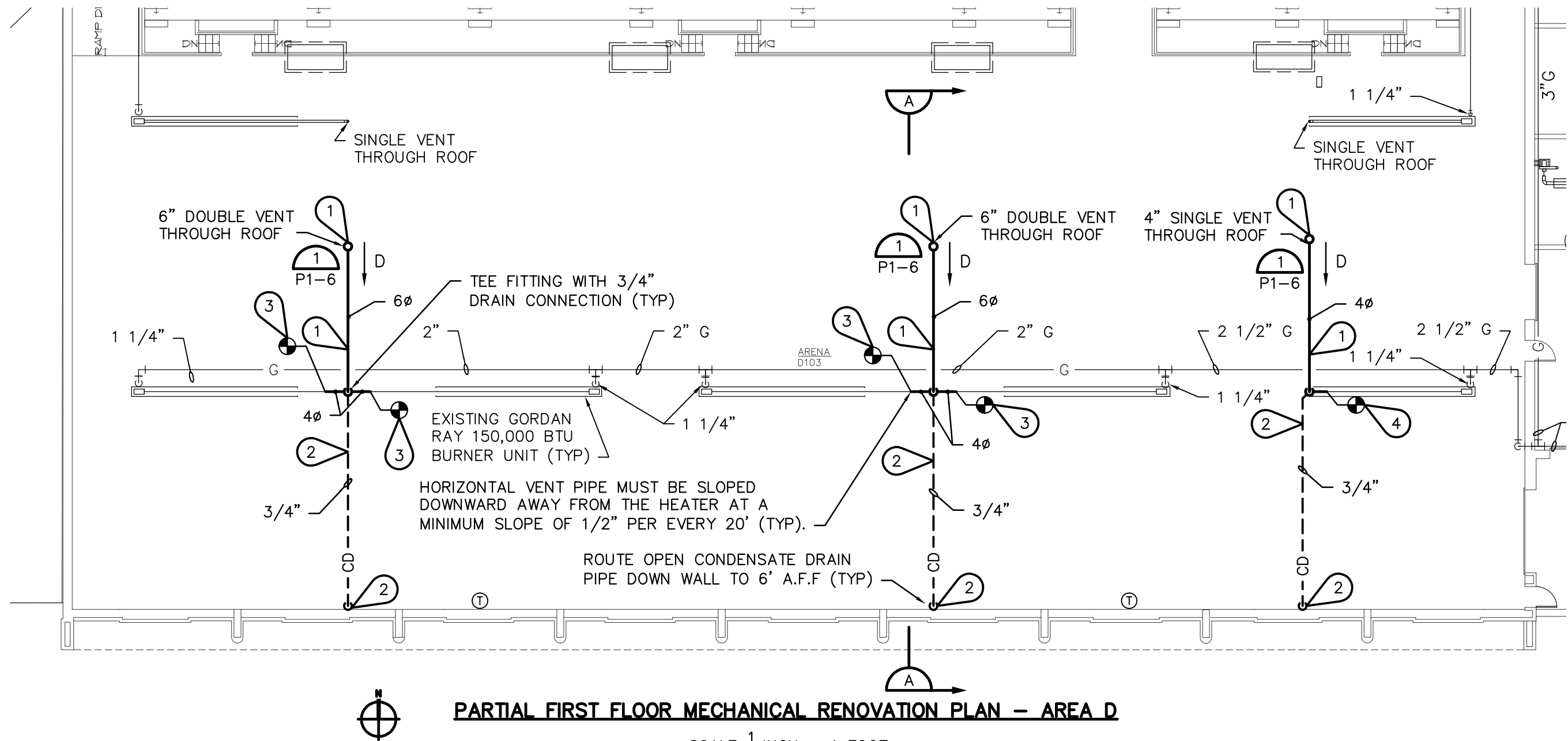


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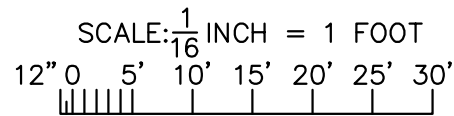
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PARTIAL FIRST FLOOR MECHANICAL RENOVATION PLAN - AREA D



MECHANICAL KEYNOTES: (1) (2) (3) (4)

1 FURNISH AND INSTALL TYPE B DOUBLE WALL METAL VENT TESTED IN ACCORDANCE WITH UL 441. PROVIDE ADEQUATE CLEARANCE AS REQUIRED FROM ALL COMBUSTIBLE MATERIALS. THE INNER SHELL SHALL BE CONSTRUCTED OF 430 STAINLESS STEEL AND THE OUTER JACKET CONSTRUCTED OF GALVANIZED STEEL. FURNISH ALL FITTINGS, THIMBLES, SUPPORT ASSEMBLY, ETC. AND REQUIRED FOR INSTALLATION OF VENT STACK THROUGH THE ROOF. THE STACK SHALL TERMINATE WITH A ROUND CHIMNEY TOP TO EXCLUDE MINIMUM 98% RAINFALL. COORDINATE THE INSTALLATION THROUGH THE ROOF WITH THE GENERAL CONTRACTOR FOR ROOF FLASHING, STORM COLLAR, ETC.

2 CONDENSATE DRAIN PIPING SHALL BE TYPE M COPPER TUBING WITH DRAINAGE FITTINGS AND SOLDERED JOINTS. INSTALL CLEANOUT AT CHANGE OF DIRECTION. PROVIDE COPPER-PLATED HANGERS AND SUPPORTS. SUPPORTS TO HOLD PIPE 1" AWAY FROM WALL TO PREVENT WATER FROM COMING IN CONTACT WITH THE WALL.

3 CONNECT NEW 4" VENT FROM EACH OF THE TWO EXISTING BURNERS INTO ONE 6" VENT STACK THROUGH THE ROOF.

4 CONNECT NEW 4" VENT FROM THE EXISTING BURNER TO A 4" VENT STACK THROUGH THE ROOF.

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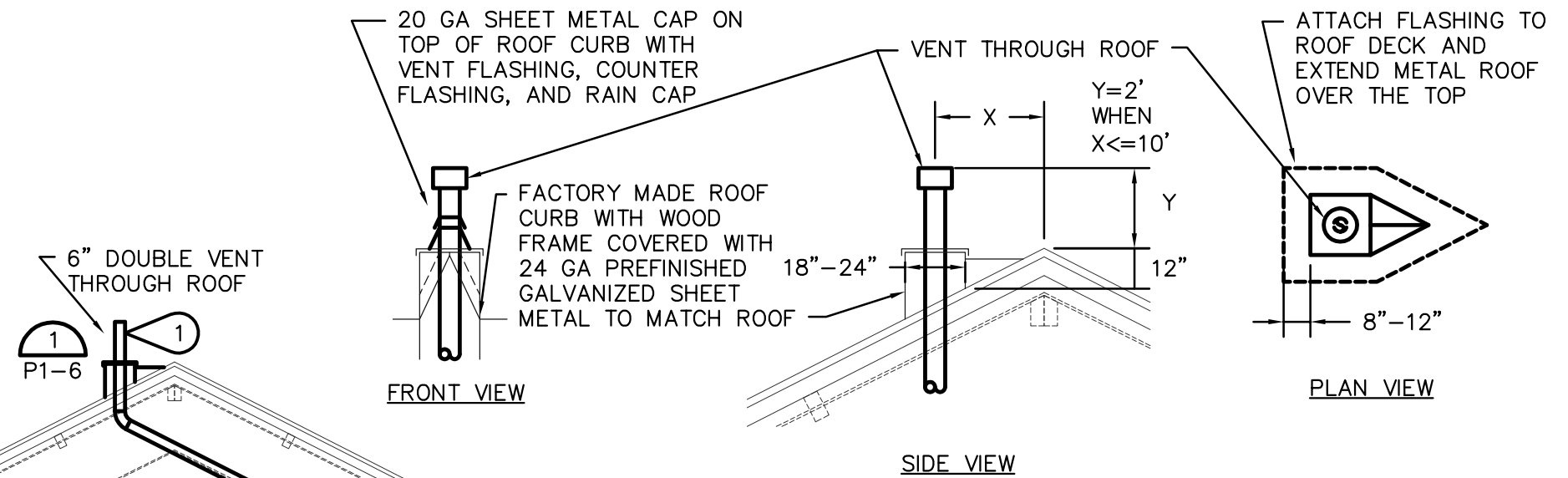
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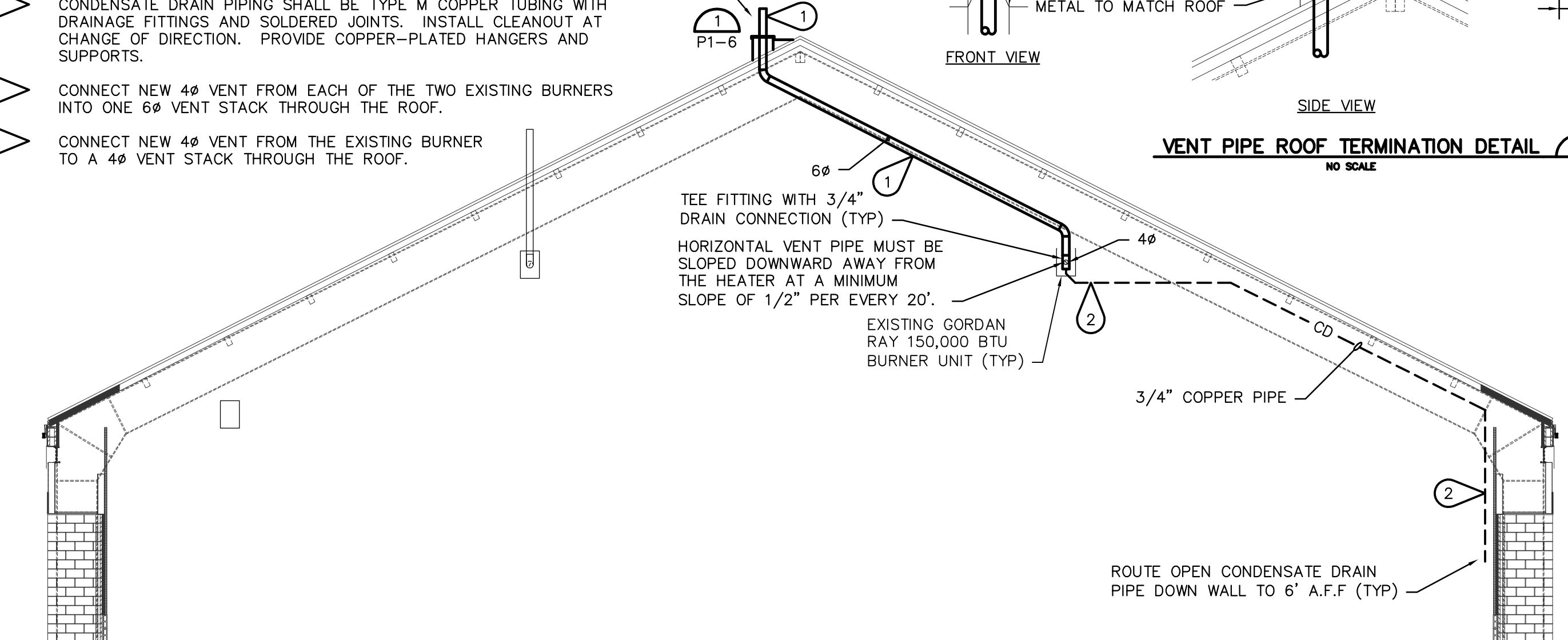
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MECHANICAL KEYNOTES: (⊳)

- 1 FURNISH AND INSTALL TYPE B DOUBLE WALL METAL VENT TESTED IN ACCORDANCE WITH UL 441. THE INNER SHELL SHALL BE CONSTRUCTED OF 430 STAINLESS STEEL AND THE OUTER JACKET CONSTRUCTED OF GALVANIZED STEEL. FURNISH ALL FITTINGS, THIMBLES, SUPPORT ASSEMBLY, ETC. AND REQUIRED FOR INSTALLATION OF VENT STACK THROUGH THE ROOF. THE STACK SHALL TERMINATE WITH A ROUND CHIMNEY TOP TO EXCLUDE MINIMUM 98% RAINFALL. COORDINATE THE INSTALLATION THROUGH THE ROOF WITH THE GENERAL CONTRACTOR FOR ROOF FLASHING, STORM COLLAR, ETC.
- 2 CONDENSATE DRAIN PIPING SHALL BE TYPE M COPPER TUBING WITH DRAINAGE FITTINGS AND SOLDERED JOINTS. INSTALL CLEANOUT AT CHANGE OF DIRECTION. PROVIDE COPPER-PLATED HANGERS AND SUPPORTS.
- 3 CONNECT NEW 4" VENT FROM EACH OF THE TWO EXISTING BURNERS INTO ONE 6" VENT STACK THROUGH THE ROOF.
- 4 CONNECT NEW 4" VENT FROM THE EXISTING BURNER TO A 4" VENT STACK THROUGH THE ROOF.



VENT PIPE ROOF TERMINATION DETAIL 1
NO SCALE



SECTION A
SCALE: 1/8 INCH = 1 FOOT
12" 0 5' 10' 15'

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