

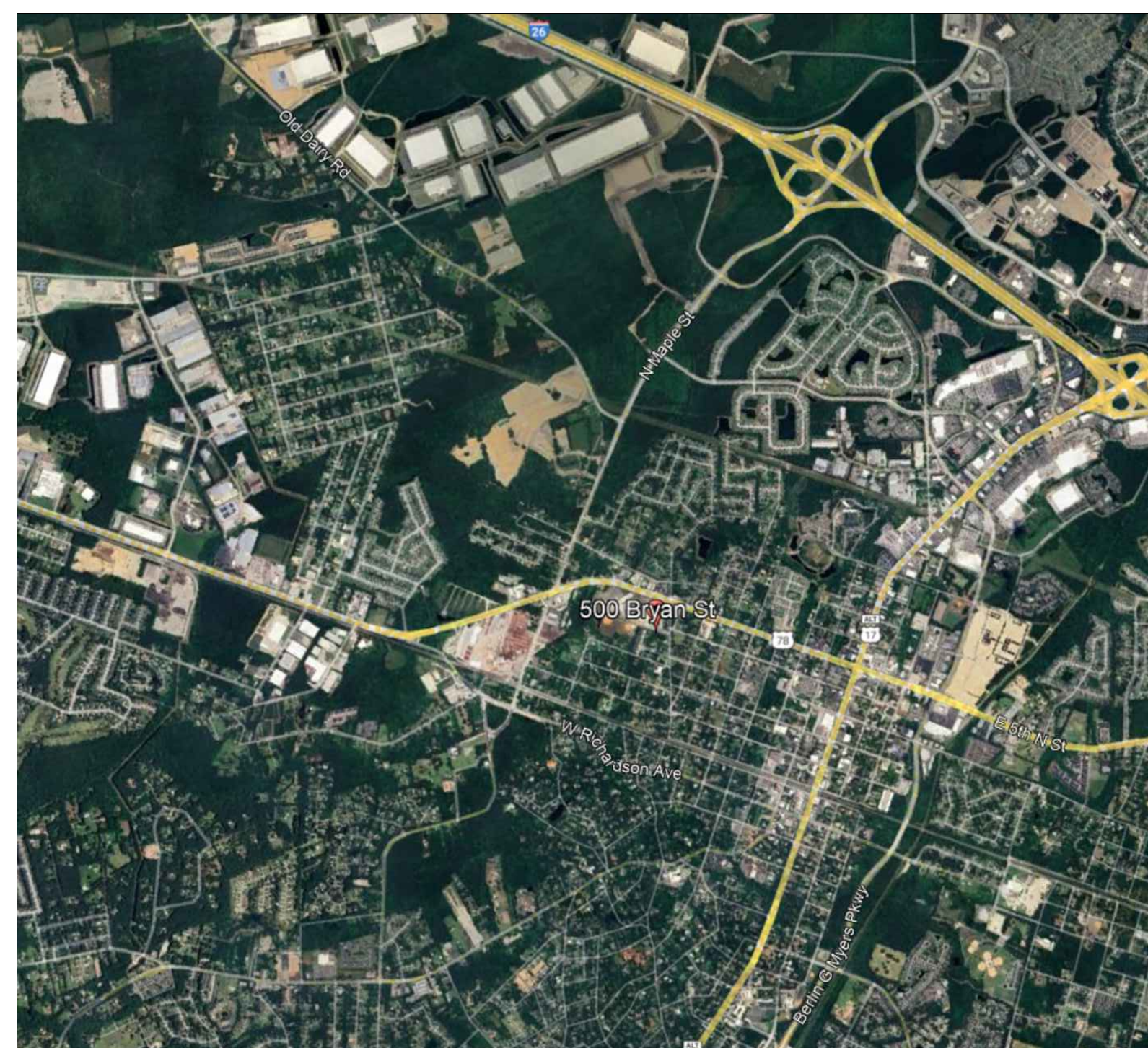
DORCHESTER SCHOOL DISTRICT TWO

ALSTON MIDDLE SCHOOL PARTIAL ROOF REPLACEMENT

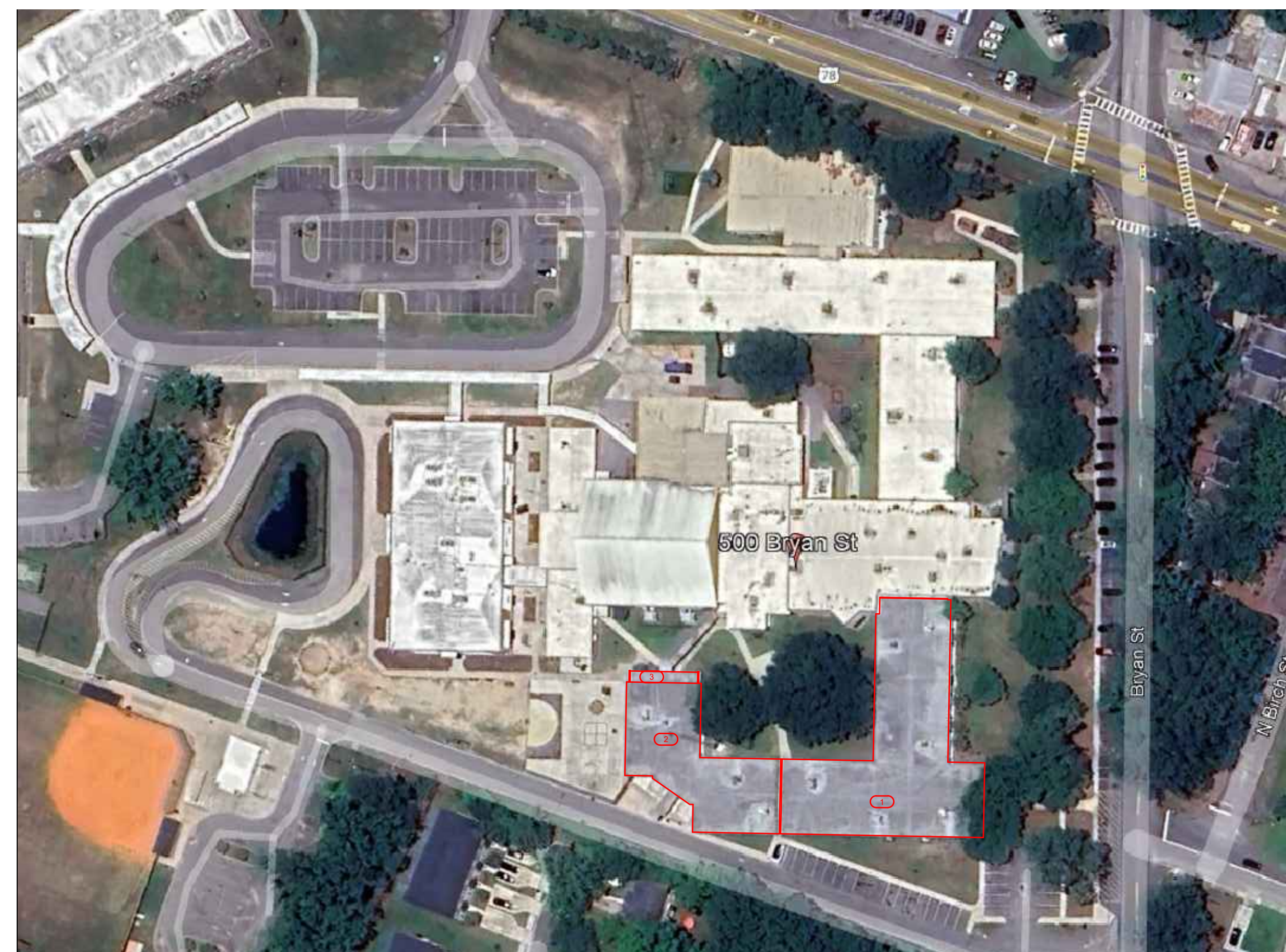
500 BRYAN STREET
SUMMERVILLE, SC 29483

REI PROJECT NO. R25CHS-030

DATE: 10-10-25



A VICINITY MAP
SCALE: N.T.S.



B SITE PLAN
SCALE: N.T.S.

KEY
 — ROOF EDGE
 (X) ROOF AREA INDICATOR
 [] INCLUDED IN CONTRACT
 [] NOT IN CONTRACT

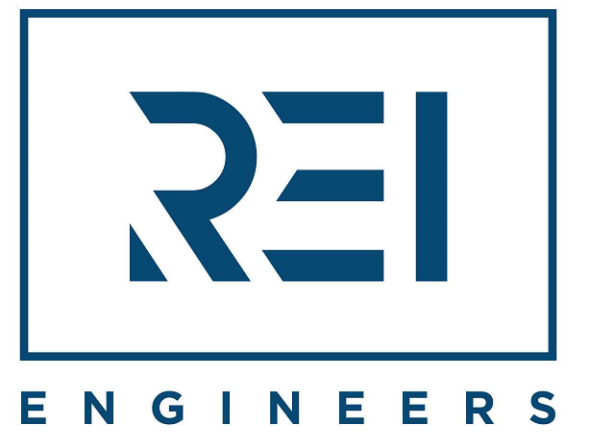


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 4. NOTES ARE INTENDED TO PROVIDE TYPICAL LOCATIONS OF WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO QUANTIFY ALL LOCATIONS.
DETAIL NOTES
 1. LIGHT LINES REPRESENT EXISTING CONSTRUCTION TO REMAIN AND DARK LINES REPRESENT NEW COMPONENTS TO BE PROVIDED.

ABBREVIATION LIST:
 AB ABANDONED
 ALUM. ALUMINUM
 BLDG. BUILDING
 CJ CONTROL JOINT
 DS DOWNSPOUT
 EJ EXPANSION JOINT
 EPDM ETHYLENE PROPYLENE DIENE MONOMER
 EX. EXISTING
 GALV. GALVANIZE
 GA. GAUGE
 HT HEIGHT
 MAX. MAXIMUM
 MIN. MINIMUM
 N.I.C. NOT IN CONTRACT
 NOM. NOMINAL
 N.T.S. NOT TO SCALE
 O.C. ON CENTER
 OF OVERFLOW
 PS PRESSURE SENSITIVE
 PVC POLYVINYL CHLORIDE
 RPLC. REPLACEMENT
 SF SQUARE FEET
 S.S. STAINLESS STEEL
 SIM. SIMILAR
 TERM. TERMINATE/TERMINATION
 TYP. TYPICAL

DRAWING INDEX:
 G-001 COVER
 XR101 EXISTING ROOF PLAN
 XR102 NEW ROOF PLAN
 XR103 WIND UPLIFT PLAN
 XR301 ROOF SYSTEMS
 XR501 DETAILS
 XR502 DETAILS
 XR503 DETAILS
 XR504 DETAILS

BUILDING CODE REFERENCE:
 2021 SC BUILDING CODE
 2009 IECC
 2021 SC EXISTING BUILDING CODE
 2021 SC FIRE CODE
 2021 SC FUEL GAS CODE
 2021 SC MECHANICAL CODE
 2021 SC PLUMBING CODE



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SEALS:



PROJECT NAME:

**DORCHESTER
SCHOOL DISTRICT
TWO
ALSTON MIDDLE
SCHOOL PARTIAL
ROOF REPLACEMENT**

500 BRYAN STREET
SUMMERVILLE, SC 29483

PROJECT NO:

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SHEET TITLE

COVER

DRAWING

G-001

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 SHEET NOTES:
 1. EXISTING PITCH PAN TO BE DEMOLISHED.



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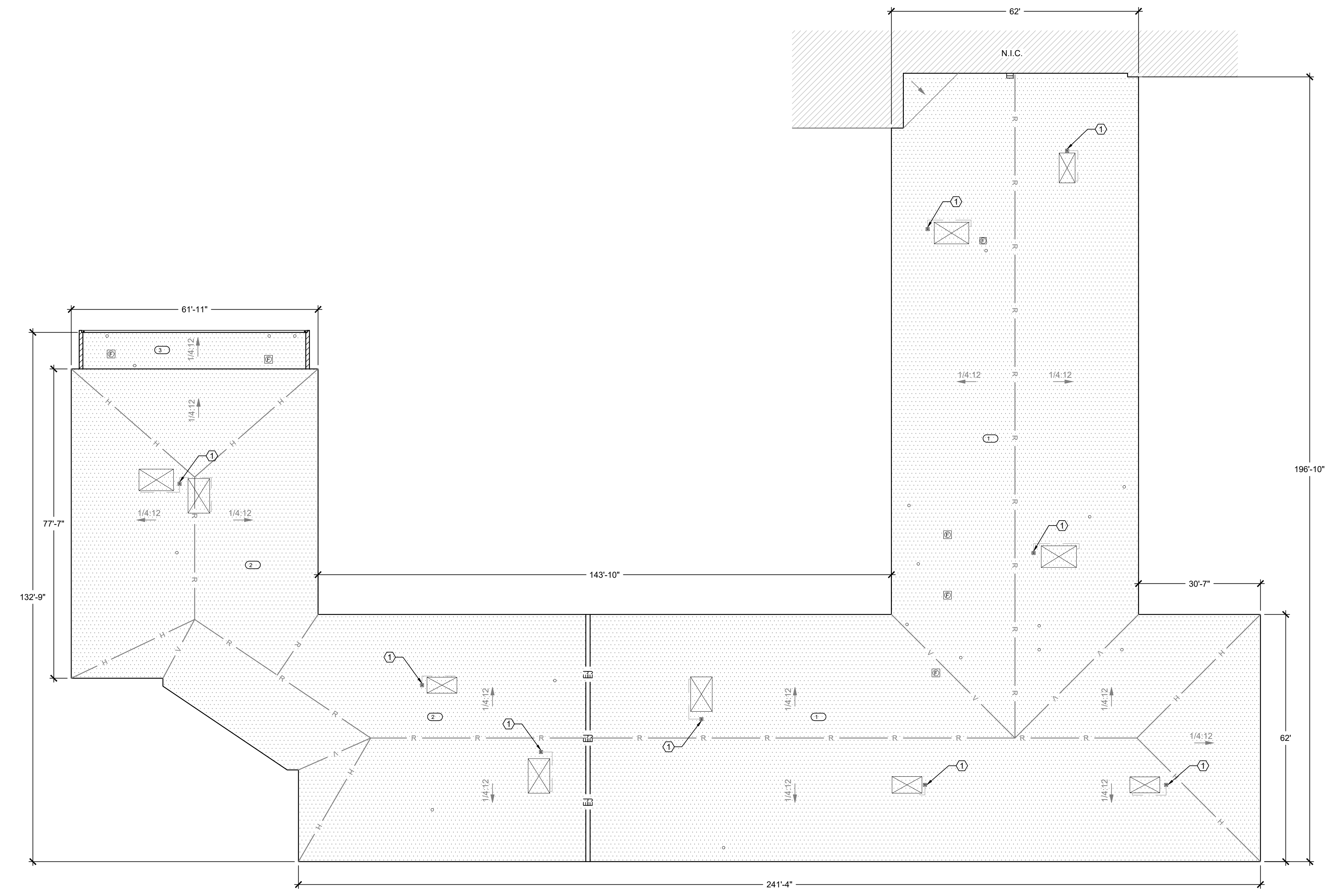
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SHEET TITLE

ROOF PLAN

DRAWING

XR101



KEY

—	ROOF EDGE
▨	PARAPET WALL
-EJ-	EXPANSION JOINT
—	GUTTER EDGE
-R-	RIDGE
-V-	VALLEY
-H-	HIP
---	TAPERED INSULATION
—	CONDUIT
▨	TAPERED INSULATION
→	TAPERED INSULATION SLOPE
○	PIPE PENETRATION
⊞	PITCH PAN
⊞	MECHANICAL CURB
⊞	EXHAUST FAN
⊞	ROOF LADDER
⊞	ROOF AREA INDICATOR
⊞	NOTE NO.



A EXISTING ROOF PLAN
 SCALE: 1/16" = 1'-0"



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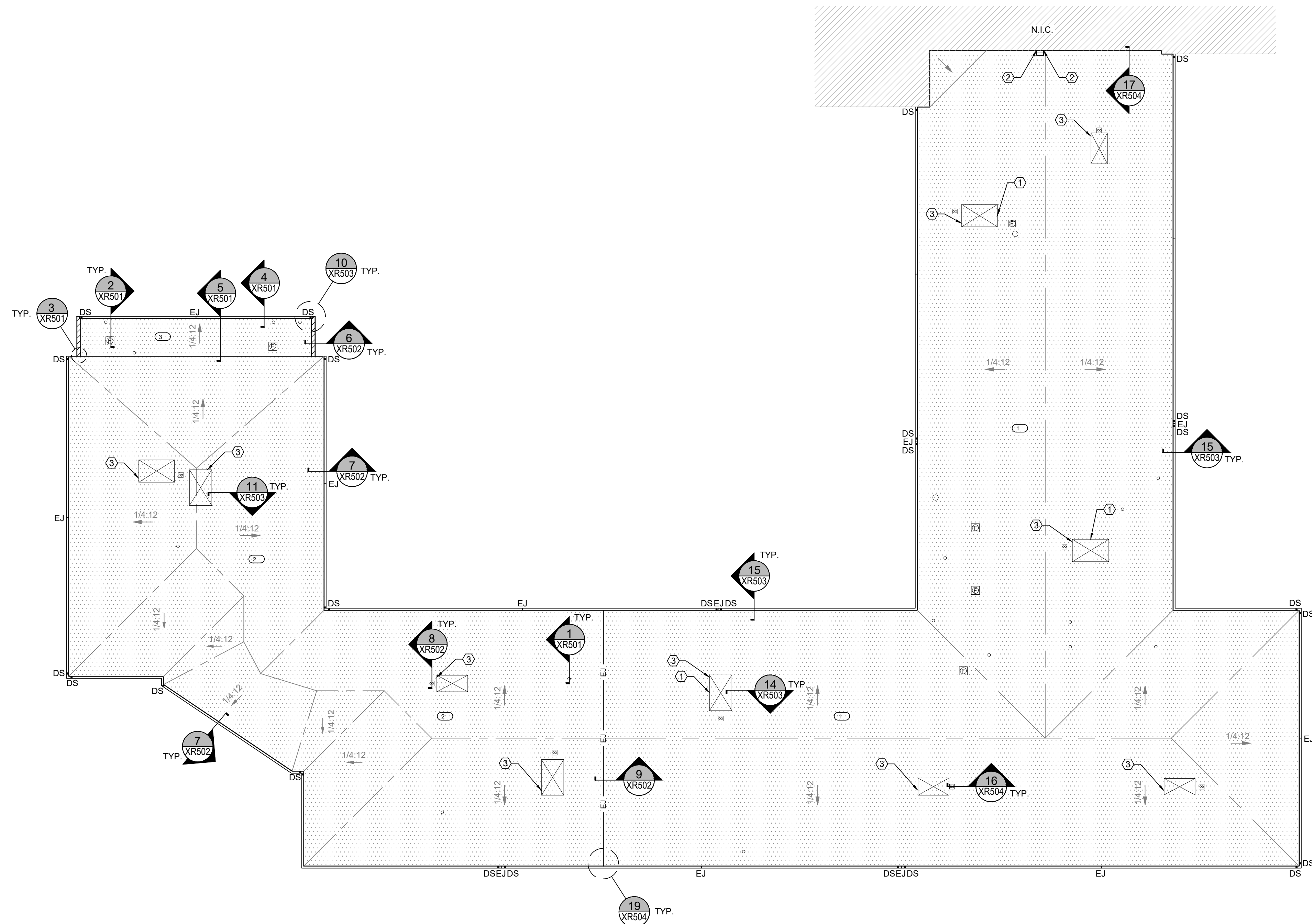
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SHEET TITLE

ROOF PLAN

DRAWING

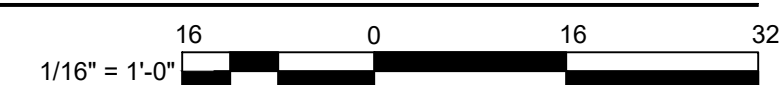
XR102



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 5. PROVIDE CRICKET AT UP SLOPE SIDE OF CURBS GREATER THAN 12" WIDE.
- SHEET NOTES:**
1. PROVIDE ROOF PIPE SUPPORTS. REFER TO SPECIFICATIONS SECTION 23 05 29.
 2. PROVIDE CLOSURE METAL AROUND EXISTING LADDER PENETRATIONS INTO METAL WALL PANEL. PROVIDE SEALANT AROUND CLOSURE METAL PERIMETER OF PENETRATION INTO METAL WALL PANEL.
 3. PROVIDE NEW PVC CONDENSATE LINES ROUTED TO THE NEAREST DRAINAGE POINT. INSTALL PIPE SUPPORTS AND SACRIFICIAL MEMBRANE AT PIPE SUPPORTS.

KEY

- ROOF EDGE
- ▨ PARAPET WALL
- EJ- EXPANSION JOINT
- GUTTER EDGE
- ▨ TAPERED INSULATION
- ▨ TAPERED INSULATION
- ▨ TAPERED INSULATION SLOPE
- PIPE PENETRATION
- ⊗ MULTIPLE PIPE PENETRATION
- ⊗ MECHANICAL CURB
- ⊗ EXHAUST FAN
- ⊗ ROOF LADDER
- ⊗ ROOF AREA INDICATOR
- ⊗ NOTE NO.
- ⊗ DETAIL INDICATOR



A NEW ROOF PLAN

SCALE: 1/16" = 1'-0"



ENGINEERS

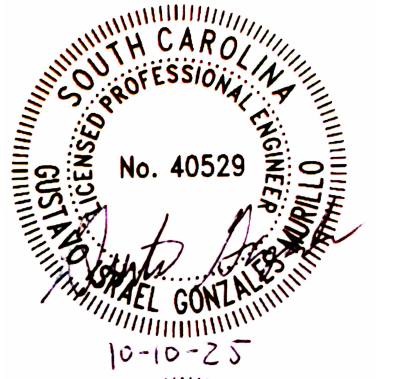
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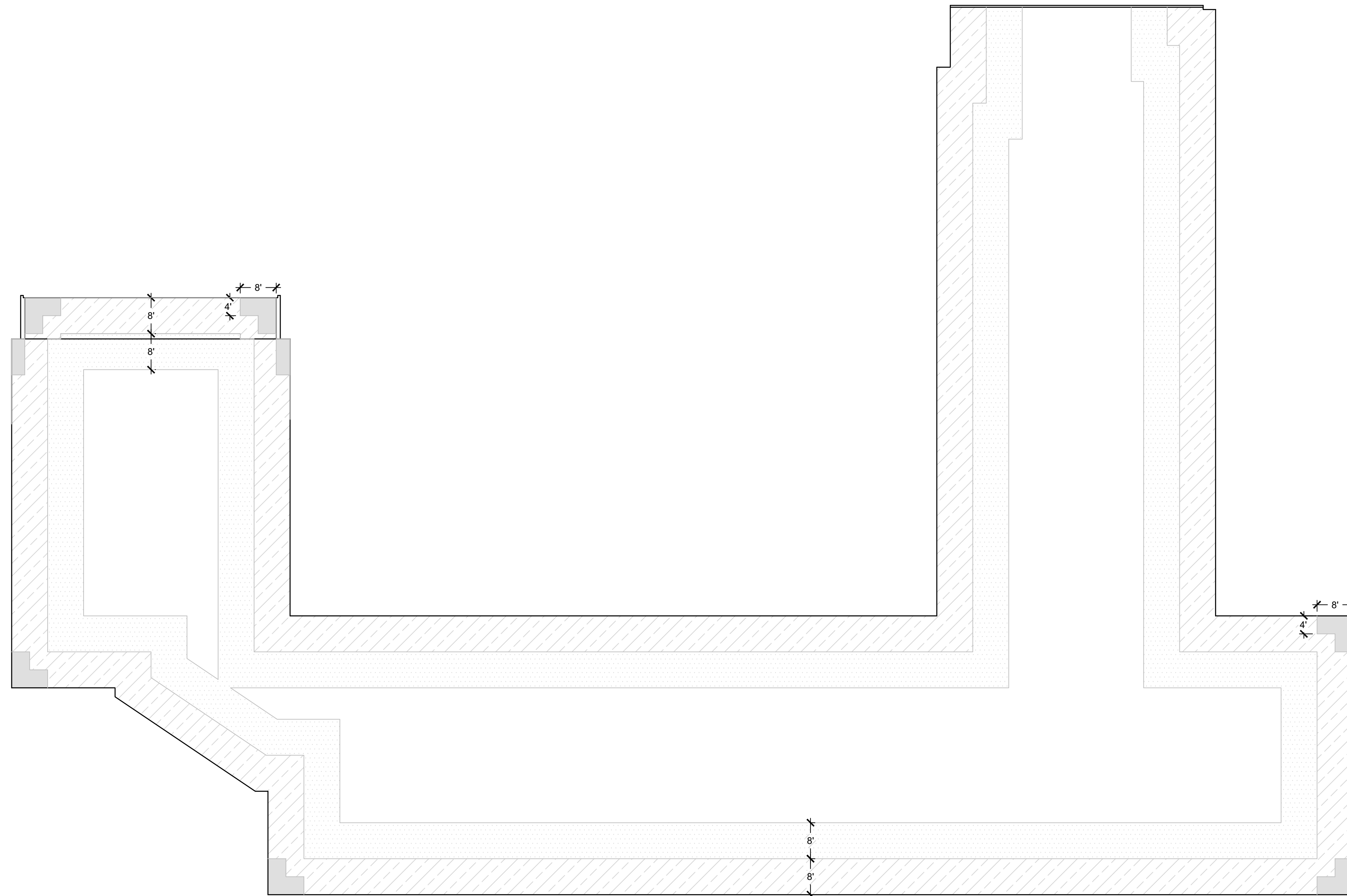
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SHEET TITLE

WIND UPLIFT PLAN

DRAWING

XR103



**WIND UPLIFT
SUMMARY**

ASCE 7 - 16

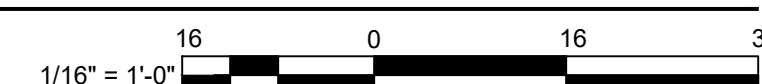
ULTIMATE DESIGN WIND SPEED	151 MPH
RISK CATEGORY	III
EXPOSURE	B
ENCLOSURE	ENC.

	ULTIMATE WIND UPLIFT PRESSURES (PSF)	MIN. REQUIRED WIND UPLIFT STRENGTH (PSF x 1.25 SF)
ZONE 1 - INTERIOR	-31 PSF	-39 PSF
ZONE 1 - FIELD	-54 PSF	-67 PSF
ZONE 2 - PERIMETER	-71 PSF	-89 PSF
ZONE 3 - CORNER	-96 PSF	-121 PSF
ZONE 4 - PERIMETER	-33 PSF	-42 PSF
ZONE 5 - CORNER	-41 PSF	-52 PSF

WIND ZONES	
	ZONE 1 (INTERIOR)
	ZONE 1 (FIELD)
	ZONE 2 (PERIMETER)
	ZONE 3 (CORNER)

WIND UPLIFT PLAN

SCALE: 1/16" = 1'-0"





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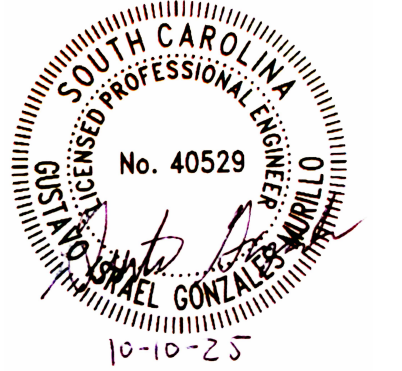
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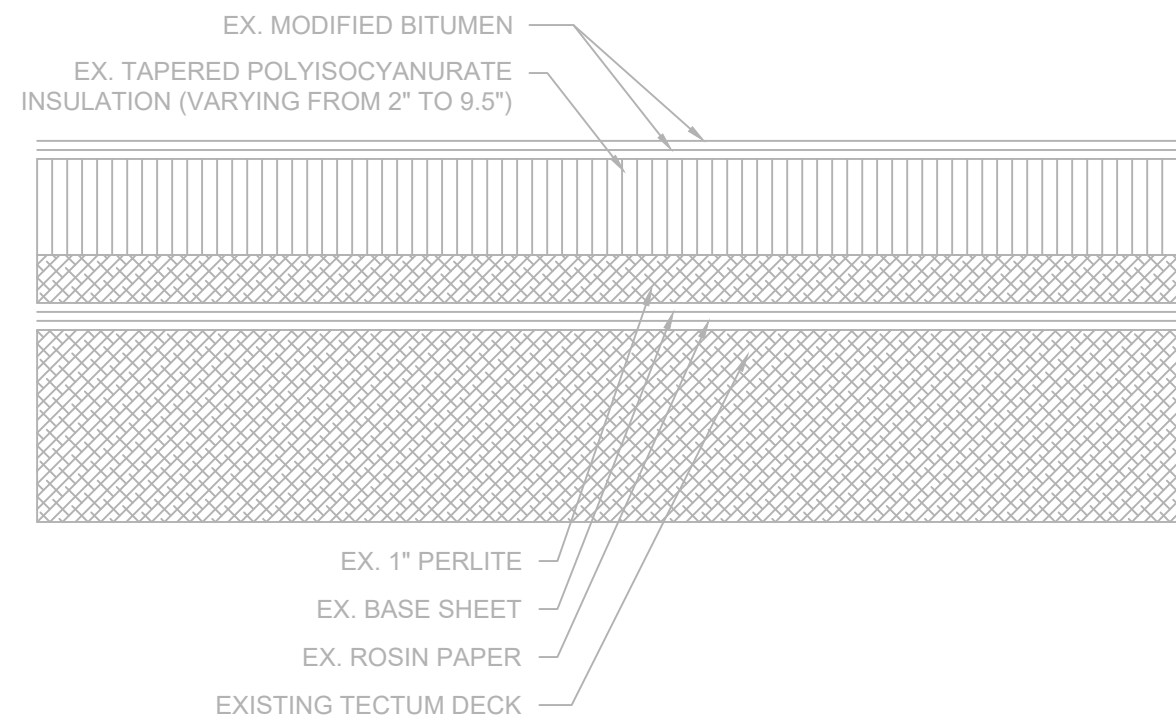
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SHEET TITLE

ROOF SYSTEMS

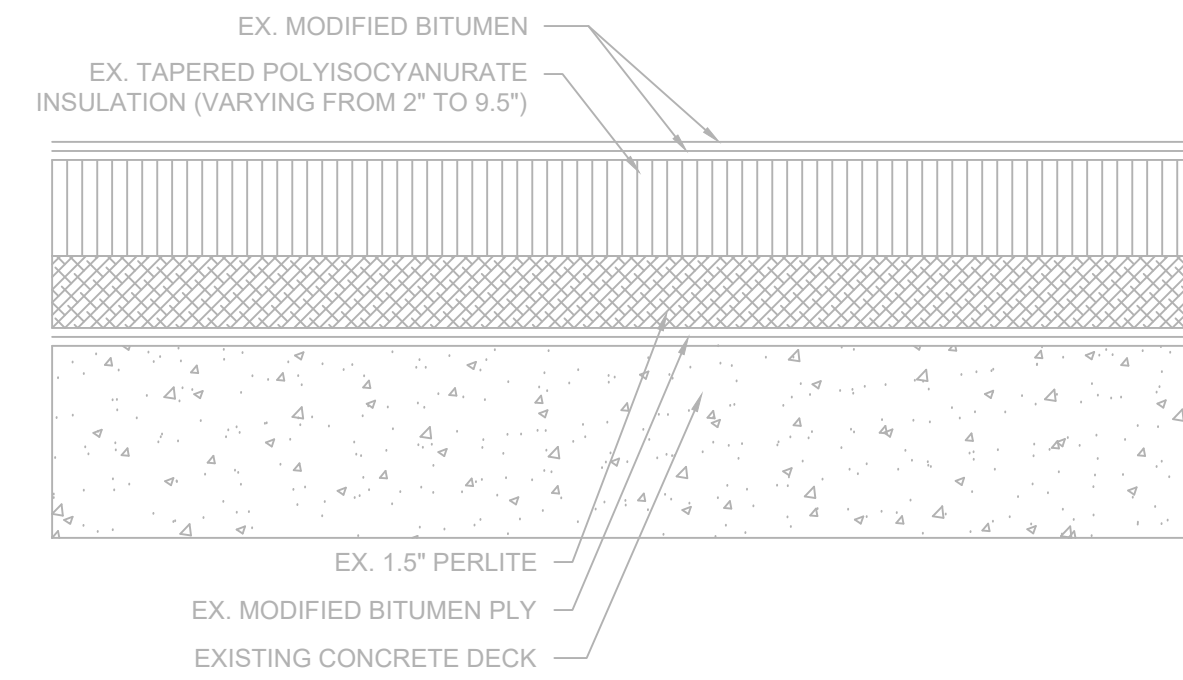
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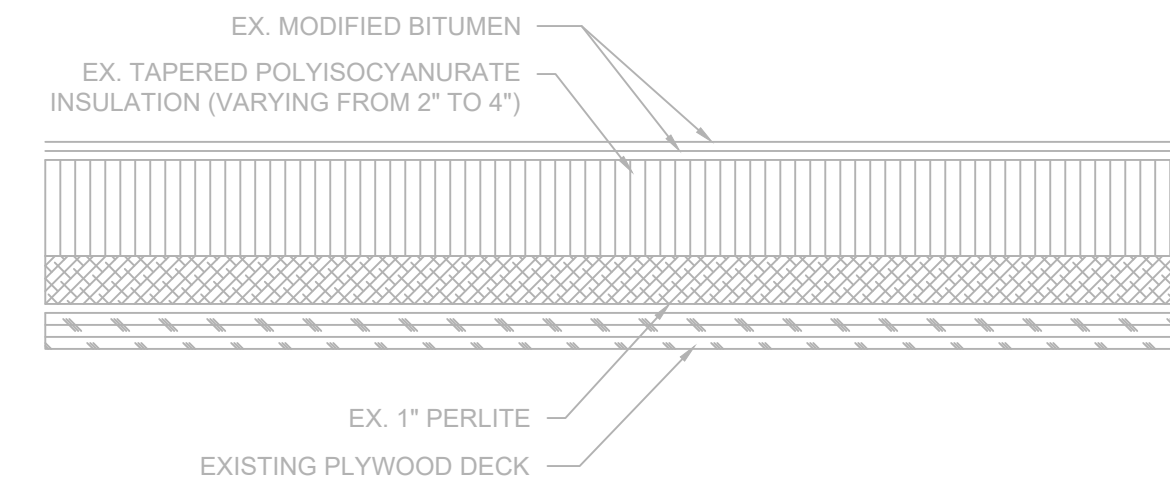
- NOTES:
- EXISTING ROOF SYSTEM COMPOSITION SHOWN IS BASED UPON RANDOM SAMPLING.
 - CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY INFORMATION PROVIDED.
 - REMOVE COMPONENTS DOWN TO THE EXISTING TECTUM DECK TO REMAIN.

A1 EXISTING ROOF SYSTEM-SECTOR 1
SCALE: 3" = 1'-0"



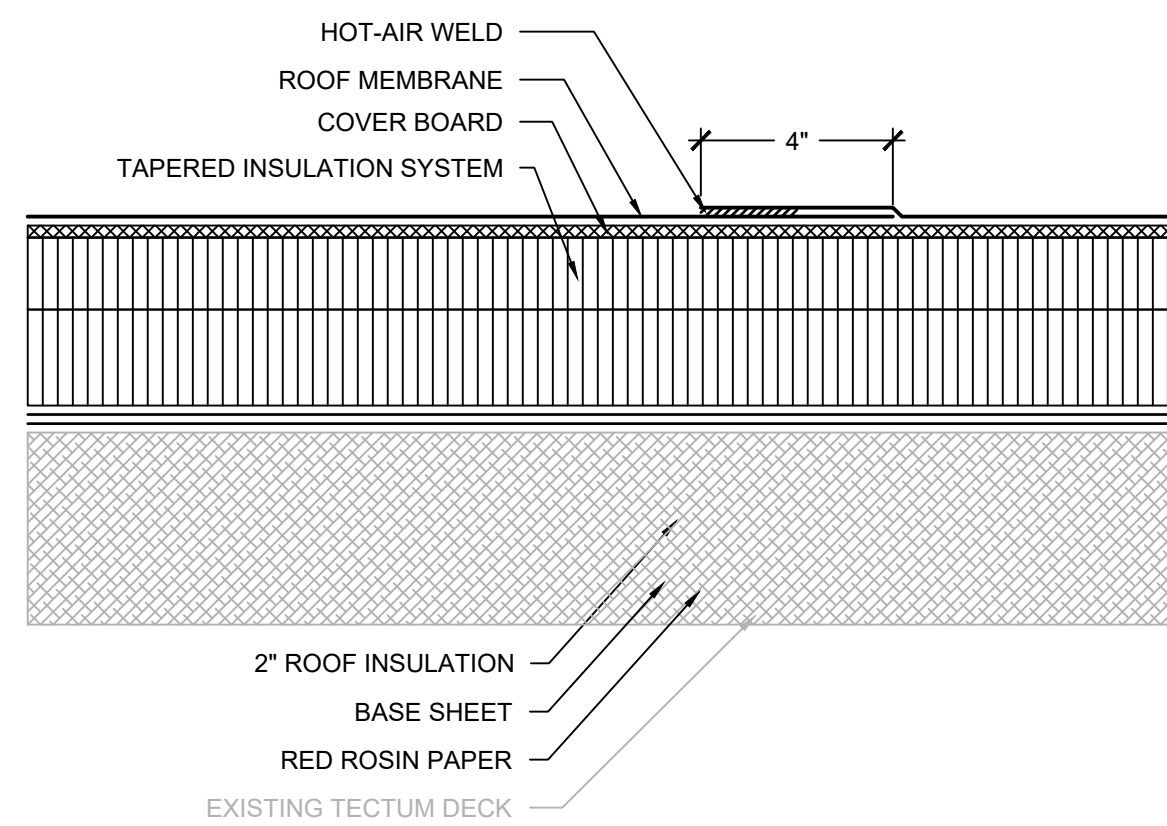
- NOTES:
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 - CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY INFORMATION PROVIDED.
 - REMOVE COMPONENTS DOWN TO THE EXISTING CONCRETE DECK TO REMAIN.

A2 EXISTING ROOF SYSTEM-SECTOR 2
SCALE: 3" = 1'-0"



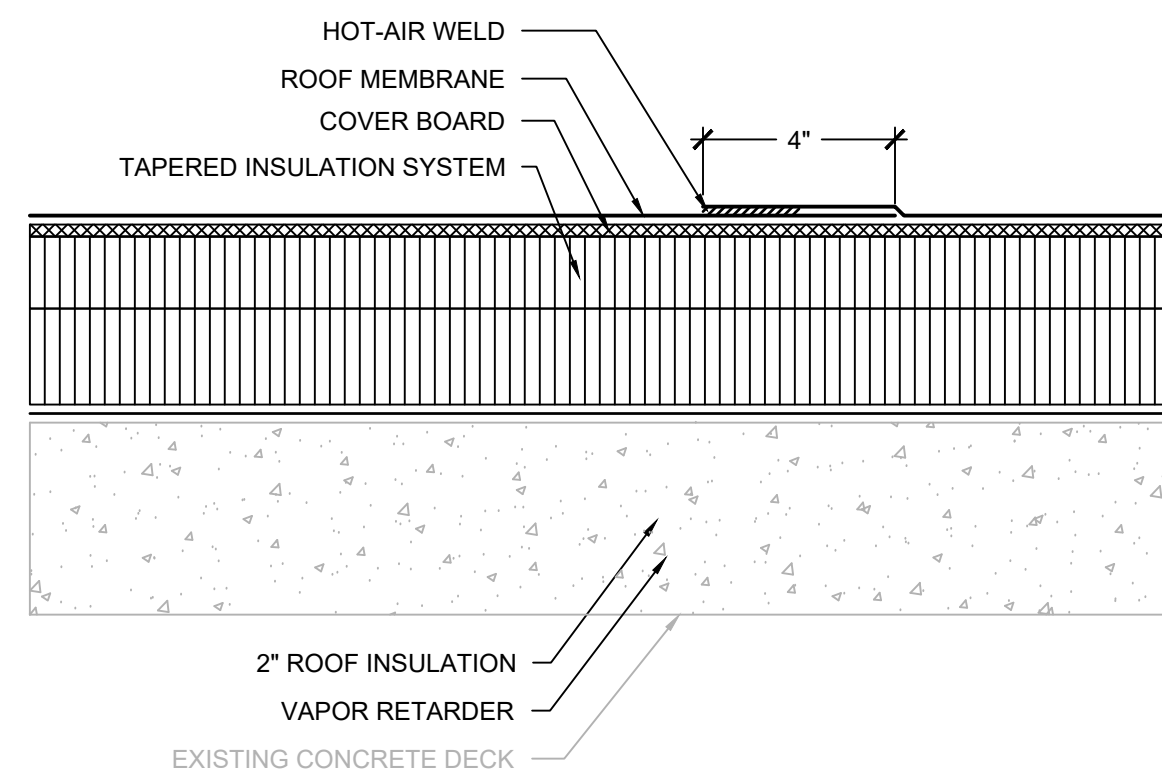
- NOTES:
- EXISTING ROOF SYSTEM COMPOSITION SHOWN IS BASED UPON RANDOM SAMPLING.
 - CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY INFORMATION PROVIDED.
 - REMOVE COMPONENTS DOWN TO THE EXISTING PLYWOOD DECK TO REMAIN.

A3 EXISTING ROOF SYSTEM-SECTOR 3
SCALE: 3" = 1'-0"



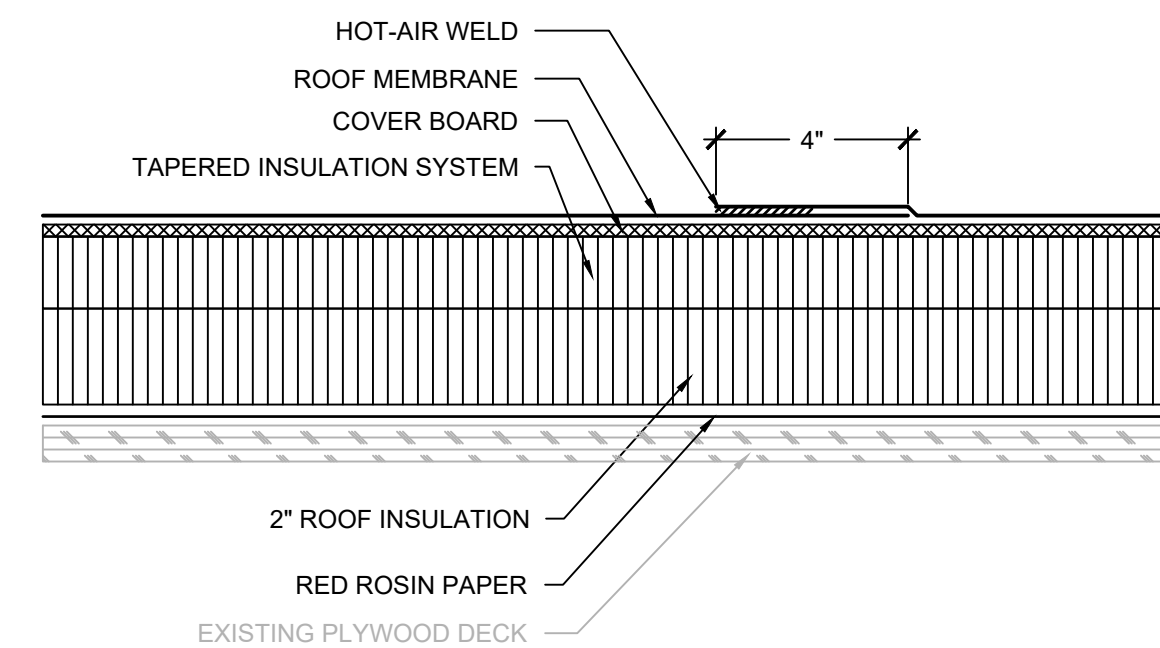
- NOTES:
- PROVIDE AN APPROVED, TESTED ROOF ASSEMBLY IN ACCORDANCE WITH FM 4474, UL 580 OR UL 1897 TO RESIST THE MINIMUM REQUIRED WIND UPLIFT STRENGTH SPECIFIED ON DRAWING XR103. PROVIDE SUBMITTAL INCLUDING DOCUMENTATION OF TESTED ASSEMBLY ALONG WITH ATTACHMENT REQUIREMENTS FOR THE ASSEMBLY.
 - ANY WHOLE OR PARTIAL INSULATION BOARD OR PORTION OF ANY BOARD WHICH FALLS IN THE PERIMETERS & CORNERS OUTLINED SHALL BE SUBJECT TO THE FASTENING REQUIREMENTS FOR THE HIGHEST WIND ZONE ENCOUNTERED, ACROSS THE ENTIRE BOARD.

B1 RPLC. ROOF SYSTEM-SECTOR 1
SCALE: 3" = 1'-0"



- NOTES:
- PROVIDE AN APPROVED, TESTED ROOF ASSEMBLY IN ACCORDANCE WITH FM 4474, UL 580 OR UL 1897 TO RESIST THE MINIMUM REQUIRED WIND UPLIFT STRENGTH SPECIFIED ON DRAWING XR103. PROVIDE SUBMITTAL INCLUDING DOCUMENTATION OF TESTED ASSEMBLY ALONG WITH ATTACHMENT REQUIREMENTS FOR THE ASSEMBLY.
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B2 RPLC. ROOF SYSTEM-SECTOR 2
SCALE: 3" = 1'-0"



- NOTES:
- PROVIDE AN APPROVED, TESTED ROOF ASSEMBLY IN ACCORDANCE WITH FM 4474, UL 580 OR UL 1897 TO RESIST THE MINIMUM REQUIRED WIND UPLIFT STRENGTH SPECIFIED ON DRAWING XR103. PROVIDE SUBMITTAL INCLUDING DOCUMENTATION OF TESTED ASSEMBLY ALONG WITH ATTACHMENT REQUIREMENTS FOR THE ASSEMBLY.
 - ANY WHOLE OR PARTIAL INSULATION BOARD OR PORTION OF ANY BOARD WHICH FALLS IN THE PERIMETERS & CORNERS OUTLINED SHALL BE SUBJECT TO THE FASTENING REQUIREMENTS FOR THE HIGHEST WIND ZONE ENCOUNTERED, ACROSS THE ENTIRE BOARD.

B3 RPLC. ROOF SYSTEM-SECTOR 3
SCALE: 3" = 1'-0"

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- ANY WHOLE OR PARTIAL INSULATION BOARD OR PORTION OF ANY BOARD WHICH FALLS IN THE PERIMETERS & CORNERS OUTLINED SHALL BE SUBJECT TO THE FASTENING REQUIREMENTS FOR THE HIGHEST WIND ZONE ENCOUNTERED, ACROSS THE ENTIRE BOARD.



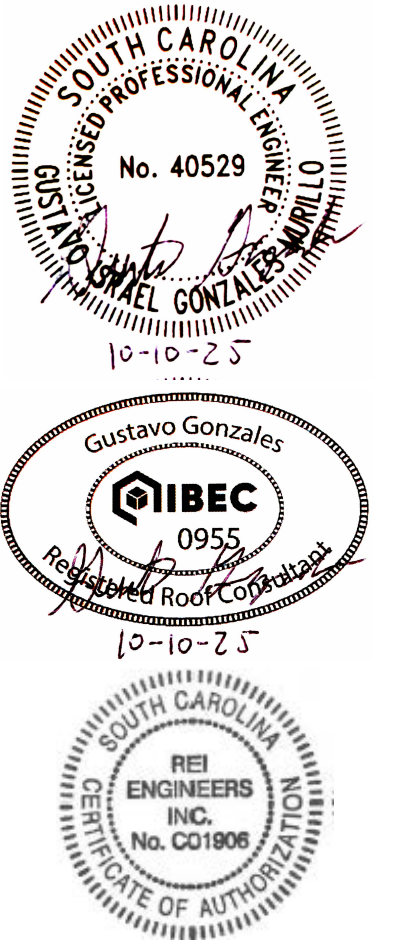
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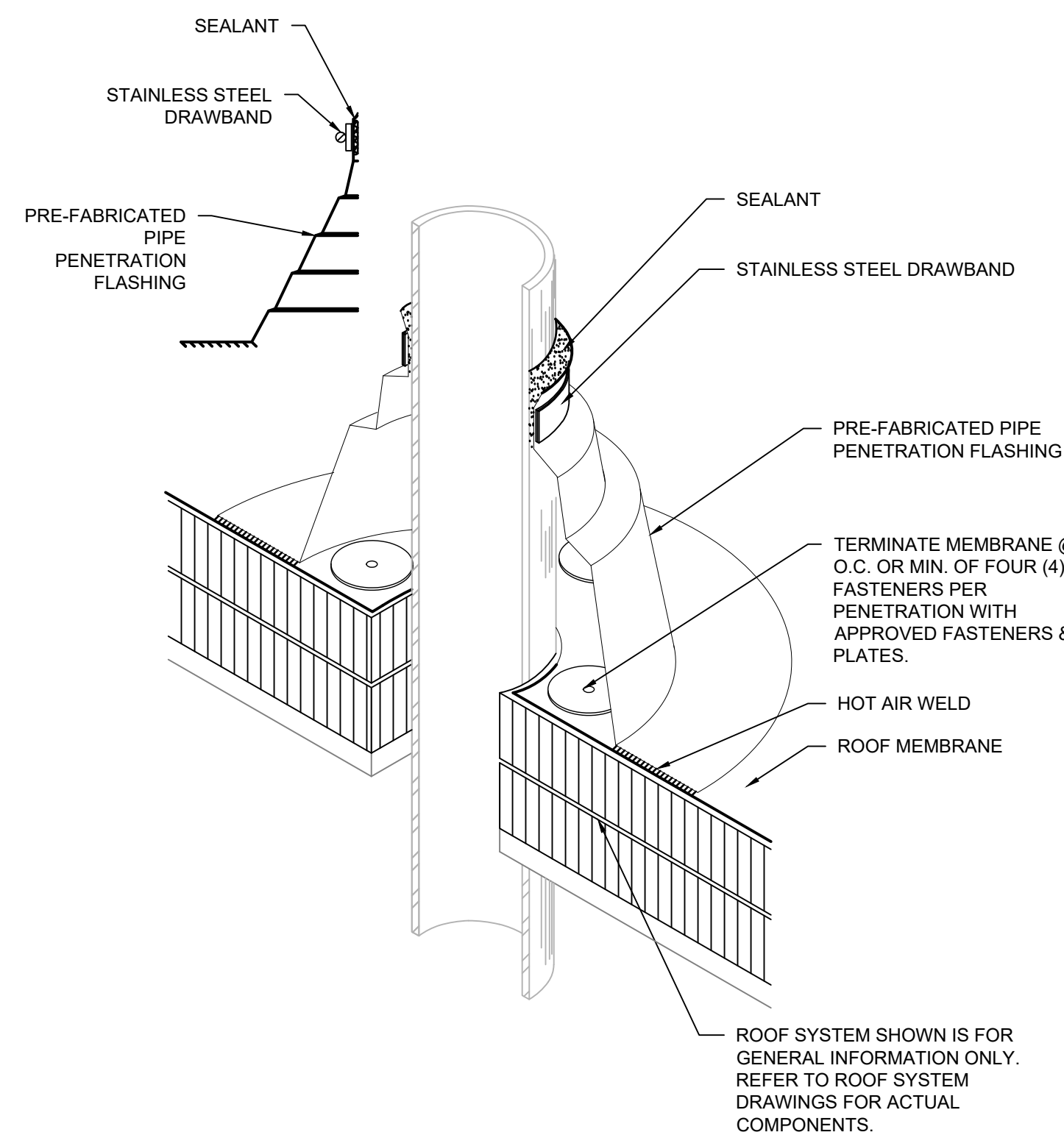
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DETAILS

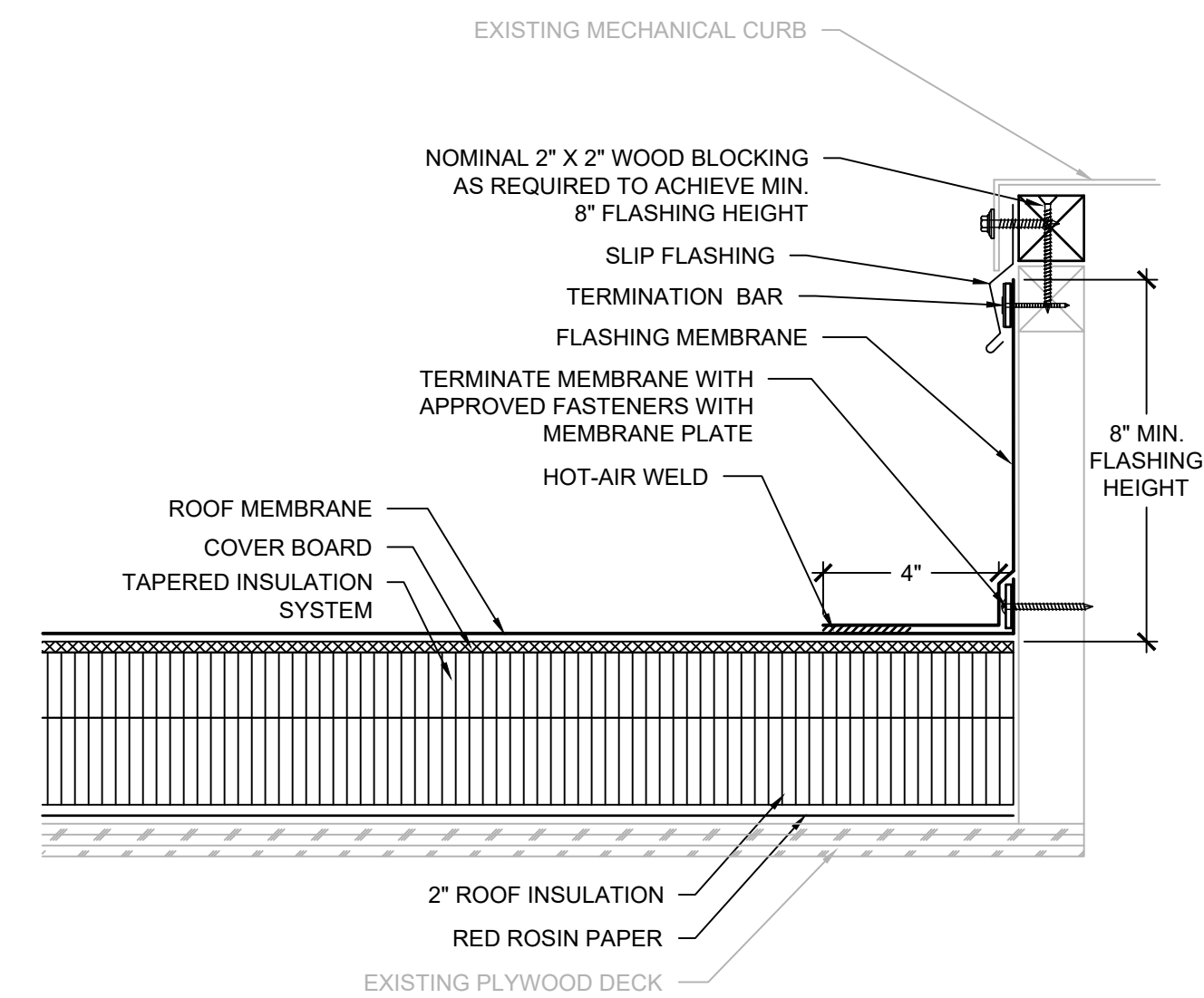
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XR501



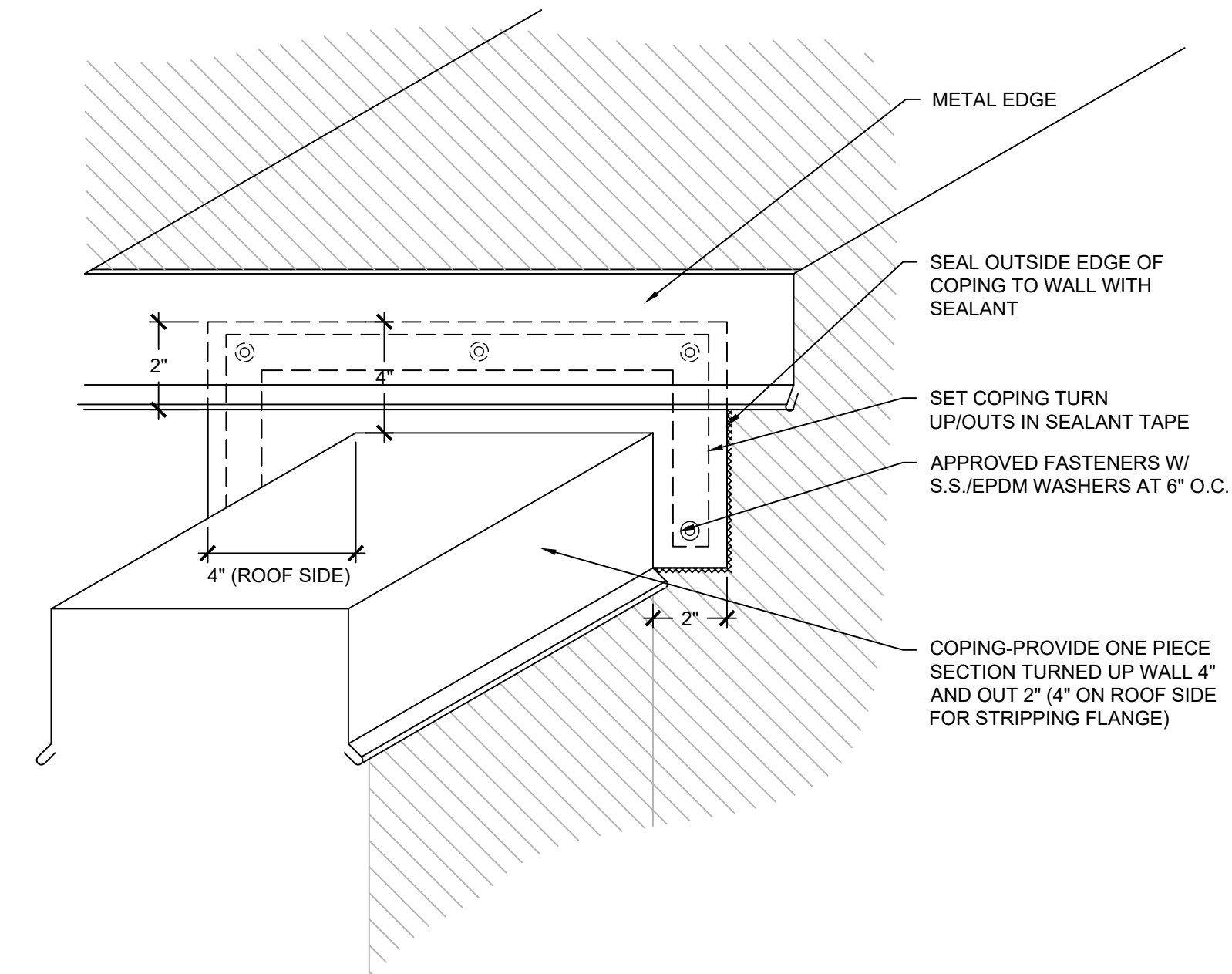
- NOTES:
- EXTEND PIPE PENETRATION TO PROVIDE MINIMUM 8" FLASHING HEIGHT.
 - SLOPE IN EXISTING ROOF DECK MAY NOT BE SHOWN.

1 PIPE PENETRATION
SCALE: 3" = 1'-0"



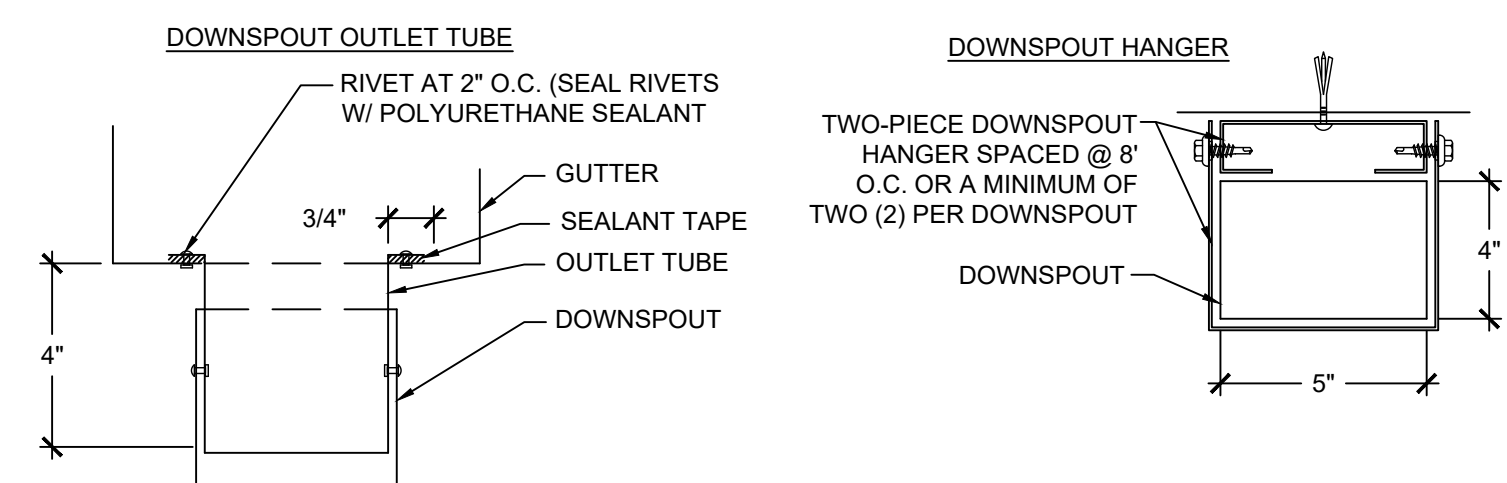
- NOTES:
- PROPERLY DISCONNECT UNIT TO RAISE AND ALLOW FLASHING INSTALLATION THEN PROPERLY REINSTALL AND CONNECT.
 - EXTEND CURB HEIGHT AND/OR PROVIDE WOOD NAILERS TO PROVIDE MINIMUM 8" FLASHING HEIGHT.
 - SLOPE IN EXISTING ROOF DECK MAY NOT BE SHOWN.

2 MECHANICAL CURB-SECTOR 3
SCALE: 3" = 1'-0"



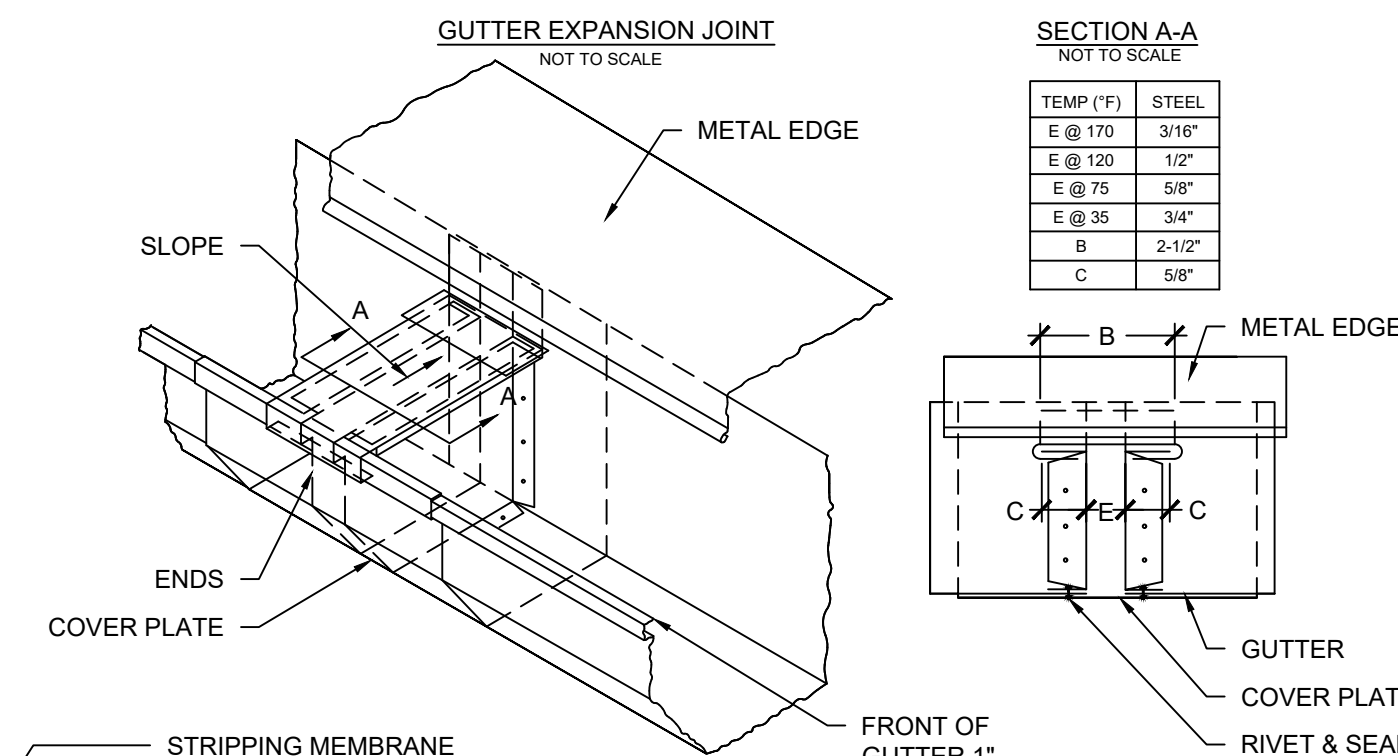
- NOTES:
- COMPONENTS SHOWN ARE FOR GENERAL INFORMATION ONLY AND MAY NOT DEPICT ACTUAL CONFIGURATION OF COMPONENTS. REFER TO THE SPECIFIED DETAIL FOR ACTUAL CONFIGURATION OF COMPONENTS.

3 COPING TERMINATION-SECTOR 3
SCALE: 3" = 1'-0"



- NOTES:
- CONTRACTOR SHALL FIELD VERIFY EXISTING ROOF EDGE CONSTRUCTION AND COMPONENTS PRIOR TO SHEET METAL FABRICATION AND TO CONFIRM DETAIL AS SHOWN WILL PROVIDE POSITIVE DRAINAGE WITHOUT PONDING WATER. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLATION.

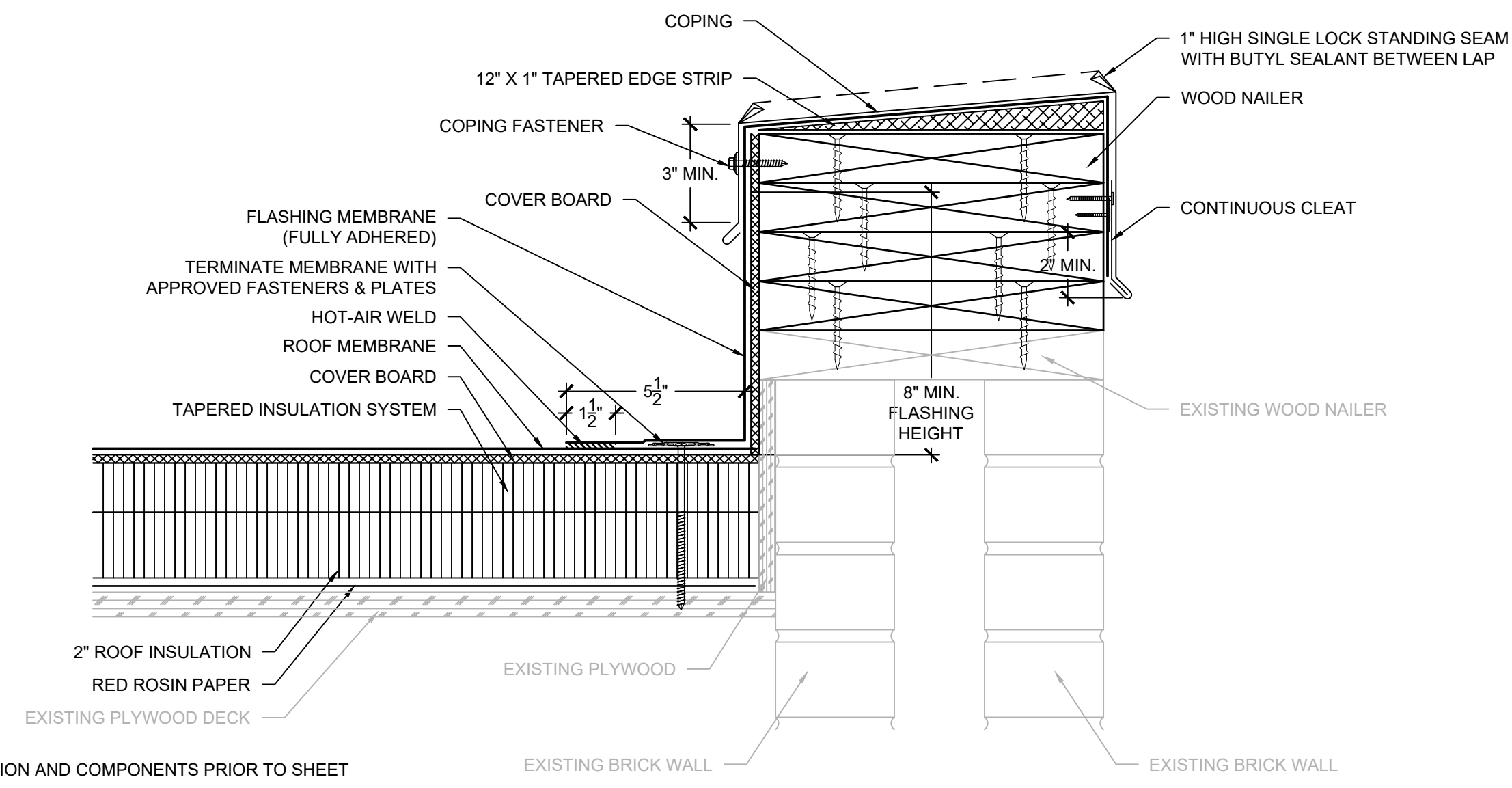
4 GUTTER EDGE-SECTOR 3
SCALE: 3" = 1'-0"



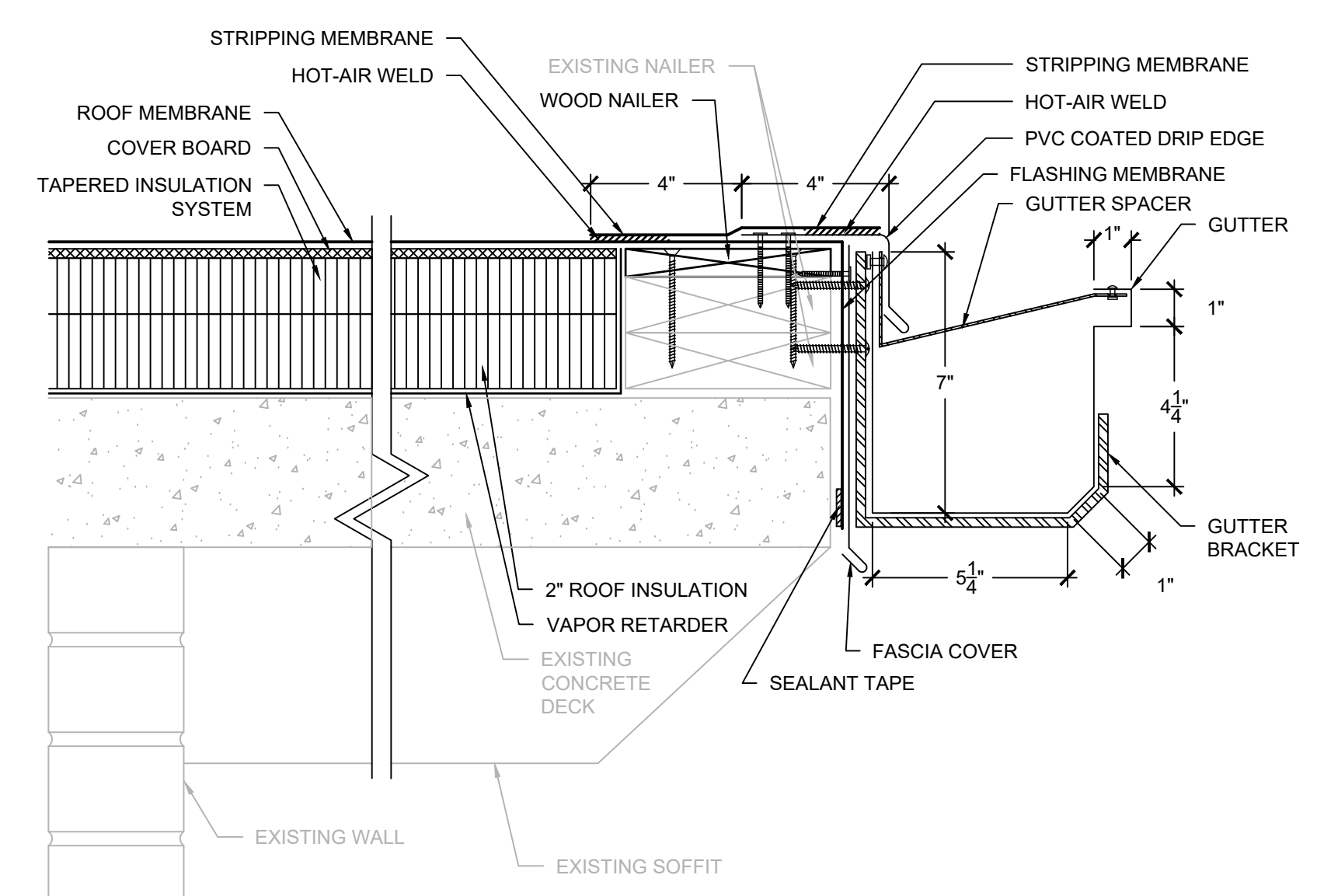
- NOTES:
- CONTRACTOR SHALL FIELD VERIFY EXISTING ROOF EDGE CONSTRUCTION AND COMPONENTS PRIOR TO SHEET METAL FABRICATION.
 - EDGE METAL SHALL BE TESTED FOR RESISTANCE TO WIND UPLIFT PRESSURES SPECIFIED IN ACCORDANCE WITH ANSI/SPRI ES-1 TEST METHODS RE-1 AND RE-2. CONTRACTOR SHALL PROVIDE SHOP DRAWING DEPICTING SHEET METAL COMPONENTS WITH DIMENSIONS AND PROVIDE EVIDENCE OF TESTING TO RESIST THE SPECIFIED WIND UPLIFT PRESSURES.
 - PROVIDE SEPARATE FASCIA COVER EXTENSION WHERE EDGE METAL DIMENSIONS EXCEED ALLOWABLE TESTED ASSEMBLY REQUIREMENTS.

5 ROOF TO ROOF-SECTOR 2 TO 3
SCALE: 3" = 1'-0"

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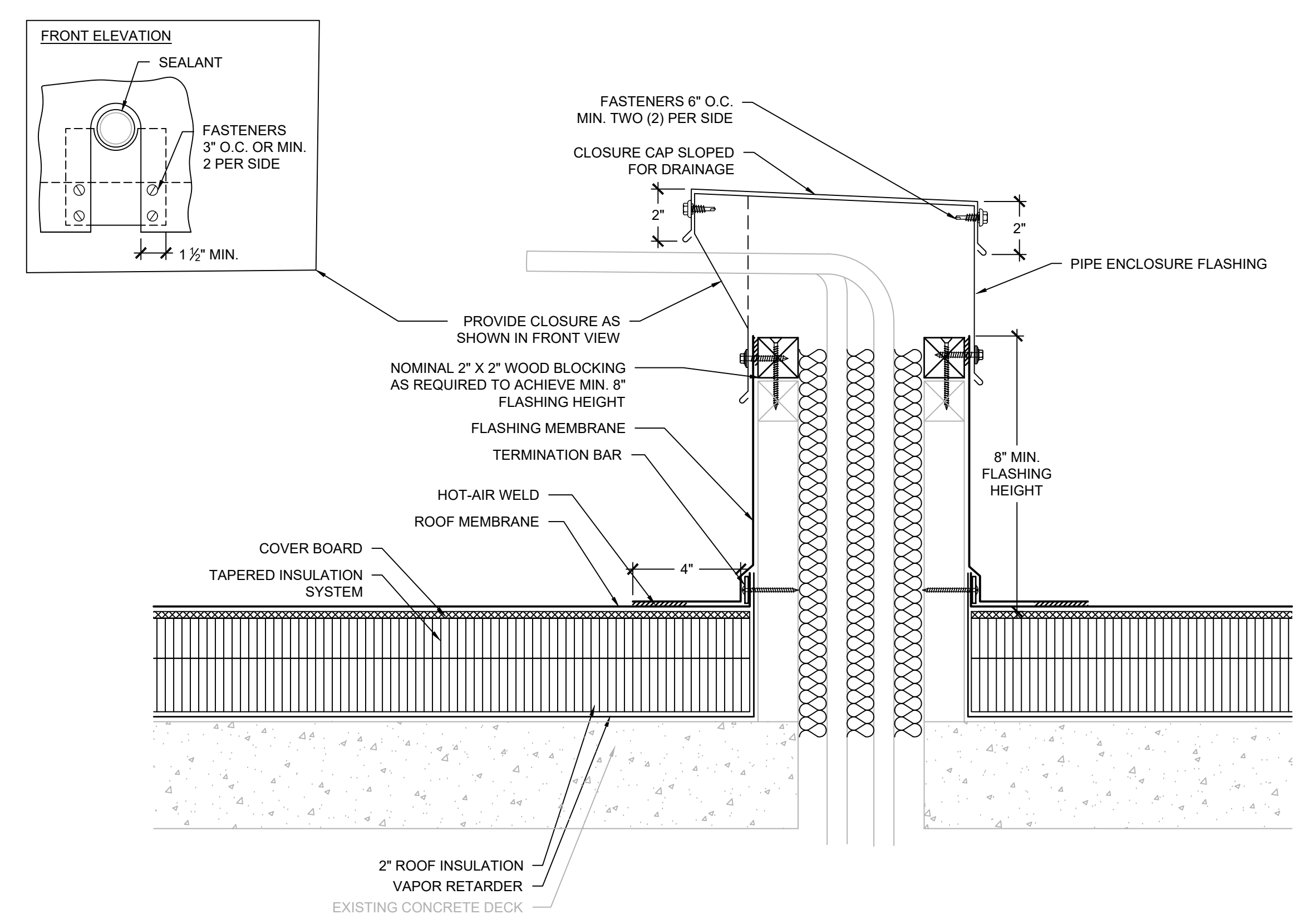
- NOTES:
1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONSTRUCTION AND COMPONENTS PRIOR TO SHEET METAL FABRICATION.
 2. COPING SHALL BE TESTED FOR RESISTANCE TO WIND UPLIFT PRESSURES SPECIFIED IN ACCORDANCE WITH ANSI/SPRI ES-1 TEST METHOD RE-3. CONTRACTOR SHALL PROVIDE SHOP DRAWING DEPICTING SHEET METAL COMPONENTS WITH DIMENSIONS AND PROVIDE EVIDENCE OF TESTING TO RESIST THE SPECIFIED WIND UPLIFT PRESSURES.
 3. SHEET METAL COPING SHALL BE SLOPED A MINIMUM OF 1"/FT. TOWARDS ROOF SURFACE.
 4. PROVIDE SEPARATE FASCIA COVER EXTENSION WHERE EDGE METAL DIMENSIONS EXCEED ALLOWABLE TESTED ASSEMBLY REQUIREMENTS.



- NOTES:
1. CONTRACTOR SHALL FIELD VERIFY EXISTING ROOF EDGE CONSTRUCTION AND COMPONENTS PRIOR TO SHEET METAL FABRICATION.
 2. EDGE METAL SHALL BE TESTED FOR RESISTANCE TO WIND UPLIFT PRESSURES SPECIFIED IN ACCORDANCE WITH ANSI/SPRI ES-1 TEST METHODS RE-1 AND RE-2. CONTRACTOR SHALL PROVIDE SHOP DRAWING DEPICTING SHEET METAL COMPONENTS WITH DIMENSIONS AND PROVIDE EVIDENCE OF TESTING TO RESIST THE SPECIFIED WIND UPLIFT PRESSURES.
 3. PROVIDE SEPARATE FASCIA COVER EXTENSION WHERE EDGE METAL DIMENSIONS EXCEED ALLOWABLE TESTED ASSEMBLY REQUIREMENTS.

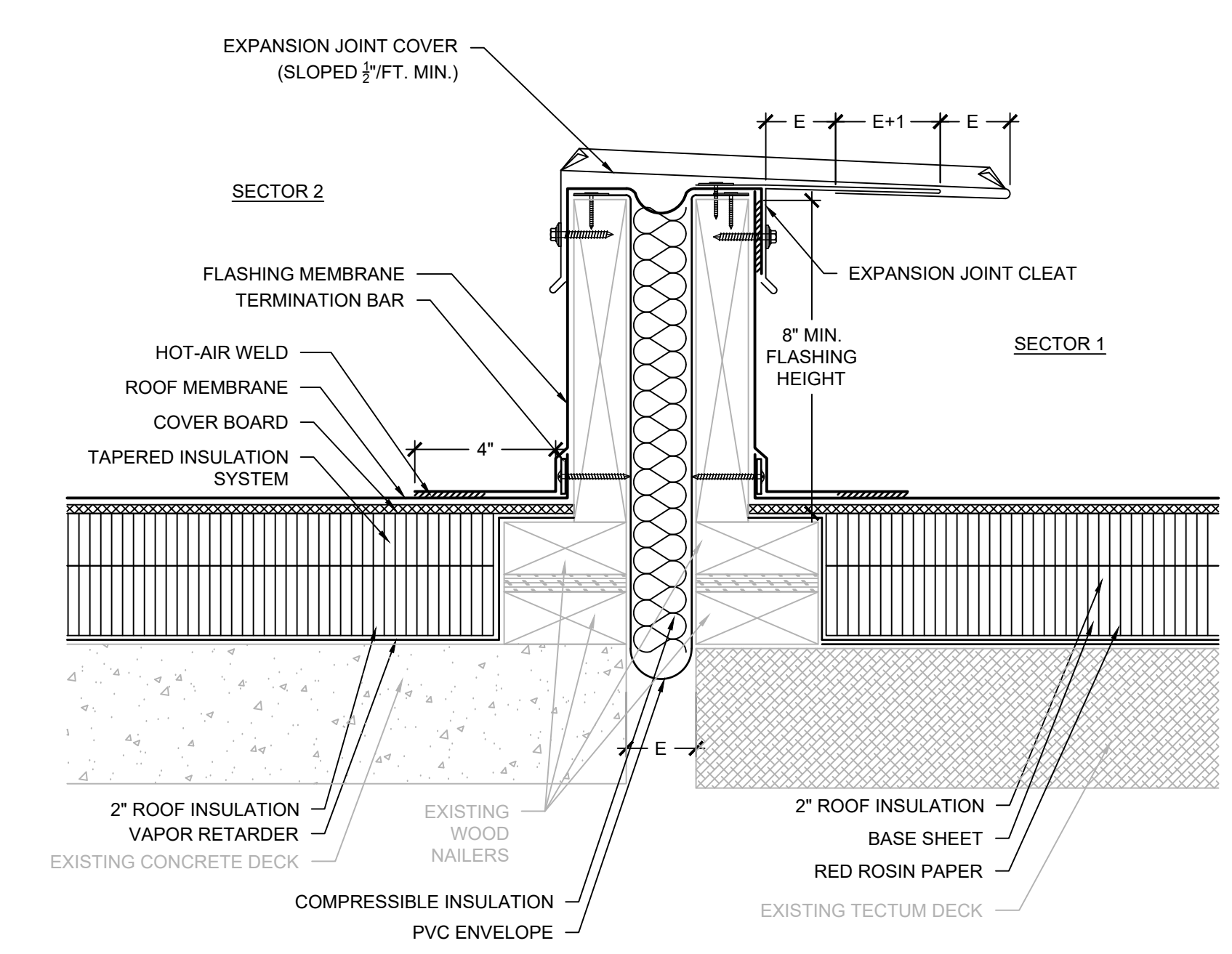
6 PARAPET WALL-SECTOR 3
SCALE: 3" = 1'-0"

7 ROOF EDGE-SECTOR 2
SCALE: 3" = 1'-0"



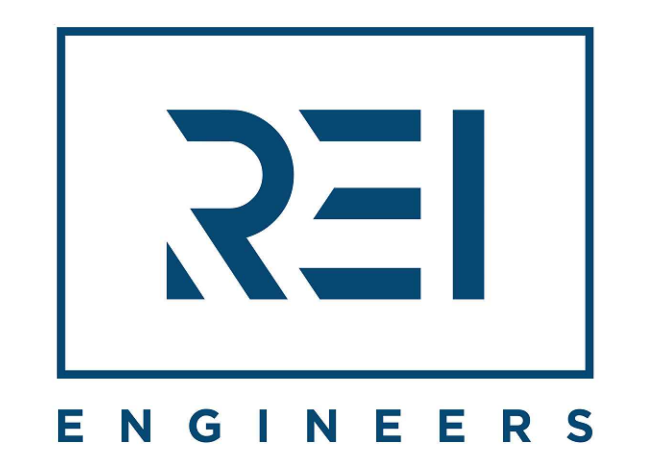
- NOTES:
1. DISCONNECT AND REROUTE ELECTRICAL CONDUIT THROUGH NEW MULTIPLE PIPE PENETRATION CURB.

8 MULTIPLE PIPE PENETRATION CURB-SECTOR 2
SCALE: 3" = 1'-0"



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9 EXPANSION JOINT-SECTORS 1 & 2
SCALE: 3" = 1'-0"



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ALSTON MIDDLE SCHOOL PARTIAL ROOF REPLACEMENT
500 BRYAN STREET
SUMMERVILLE, SC 29483

PROJECT NO:
R25CHS-030

ISSUE:

NO.	DATE	DESCRIPTION
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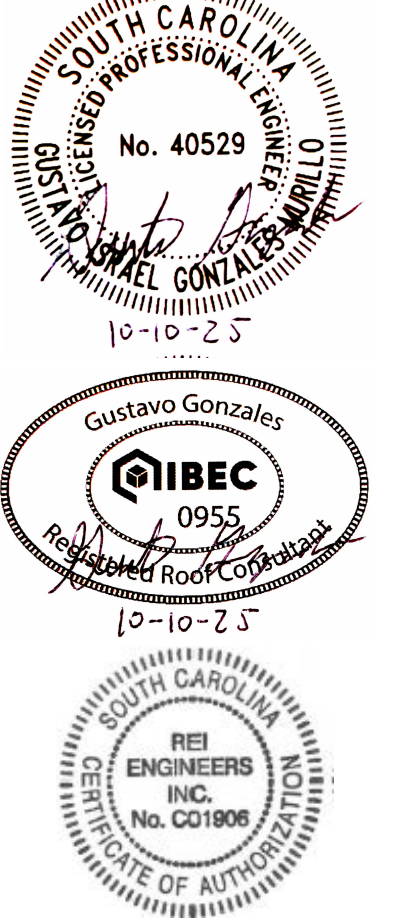
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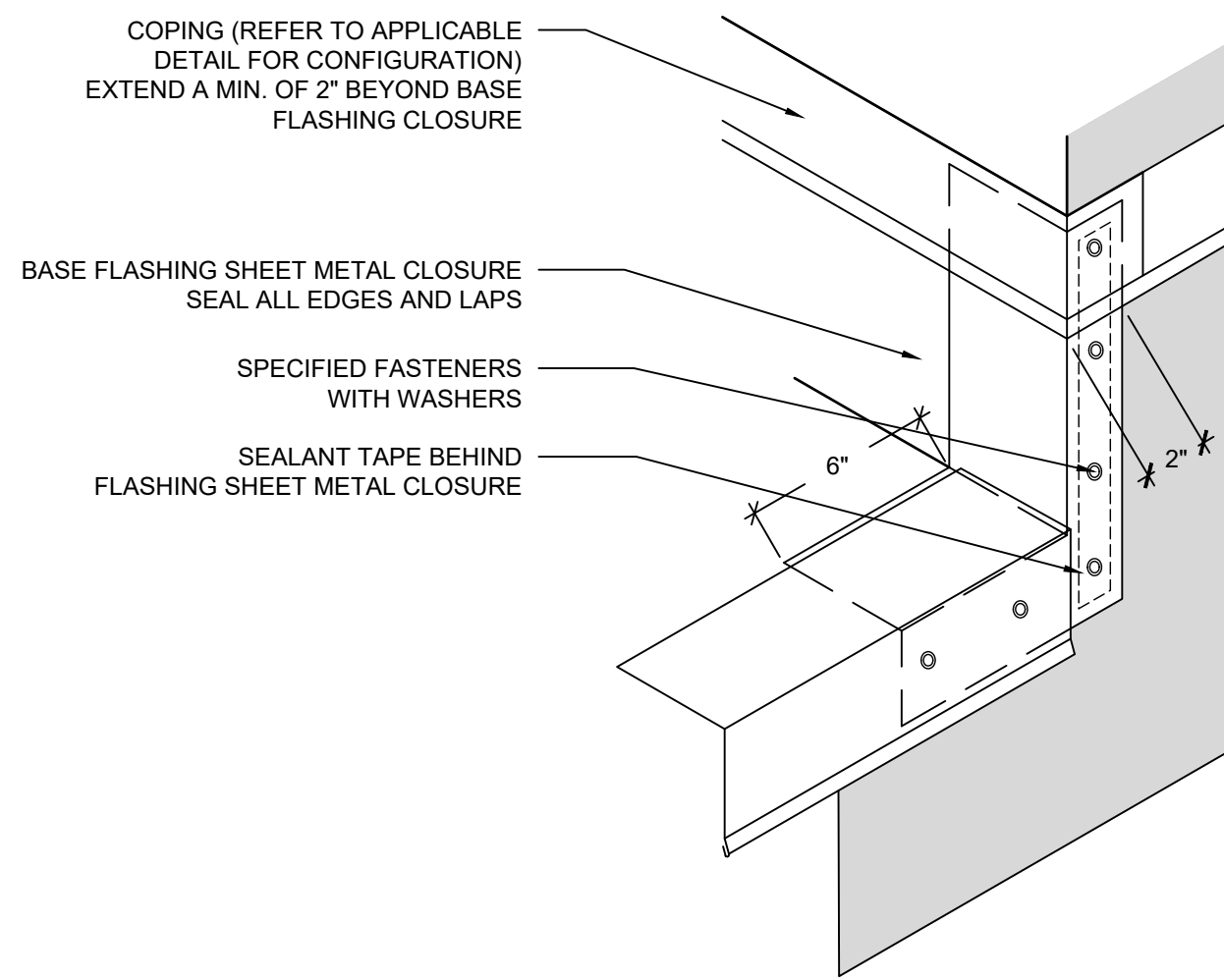
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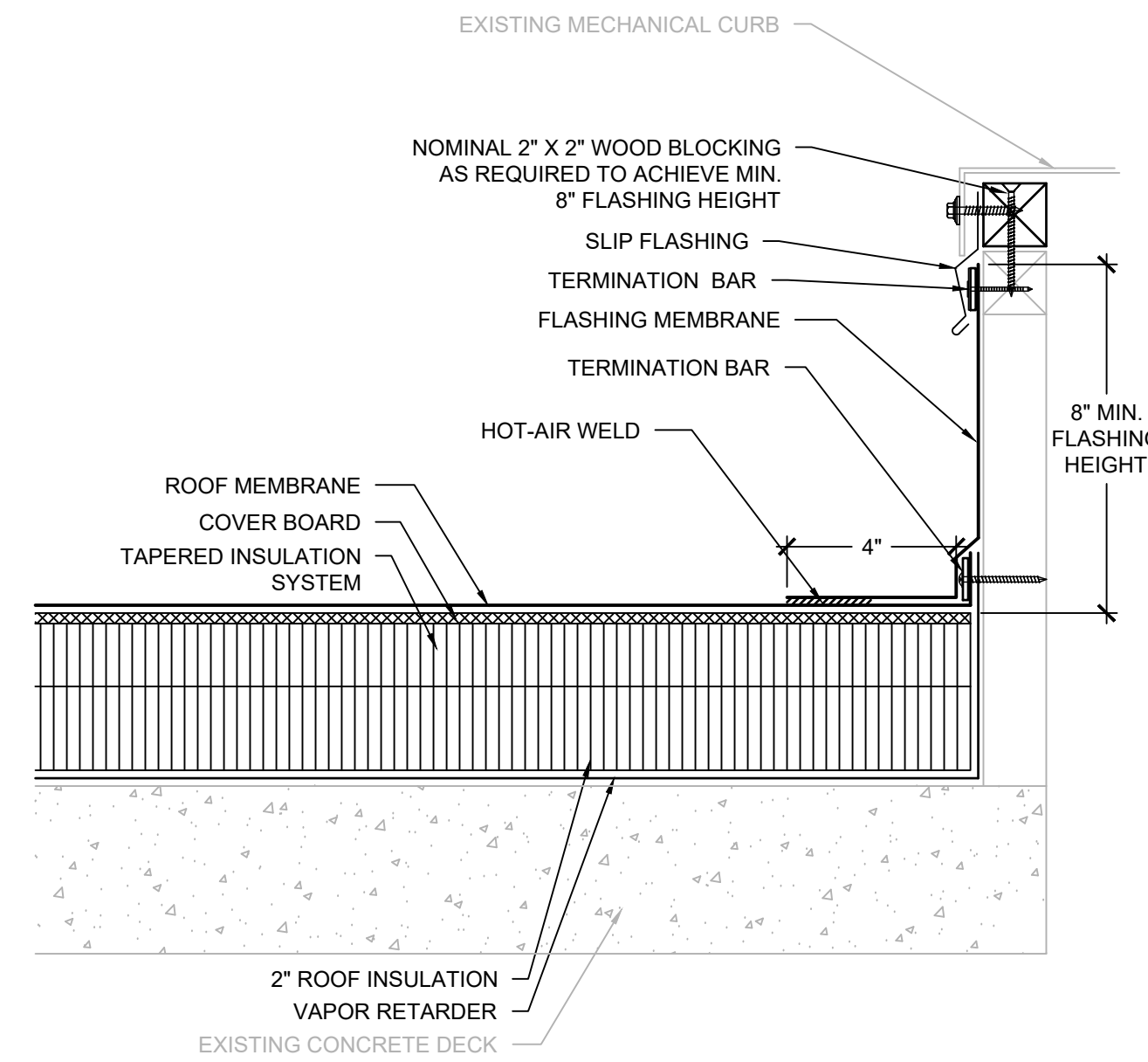
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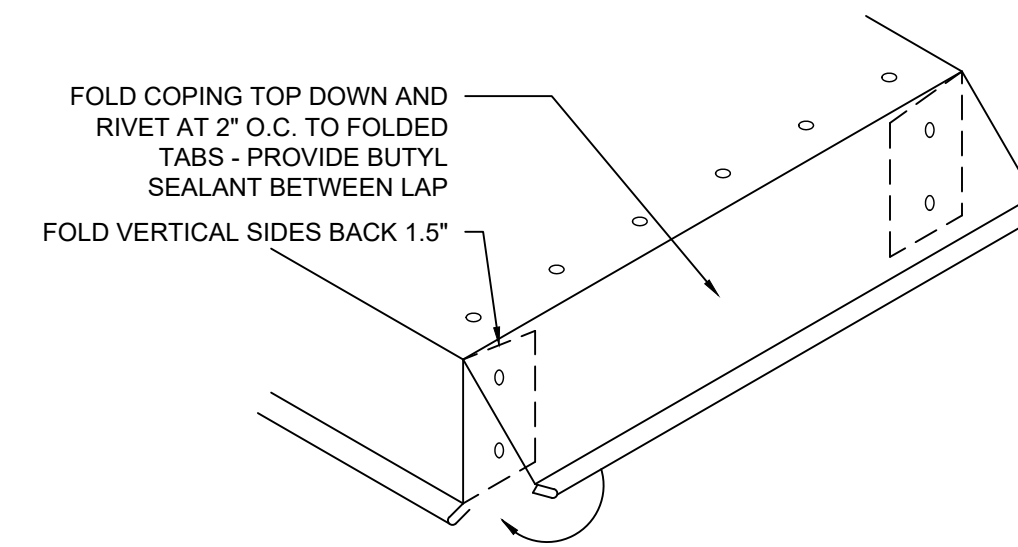
- NOTES:
- MEMBRANE AND FLASHING/STRIPPING MEMBRANE & GUTTER NOT SHOWN FOR CLARITY.
 - BASE FLASHING CLOSURE TO BE INSTALLED CONCURRENTLY WITH METAL EDGE AND STRIPPED INTO MEMBRANE WITH HOT-AIR WELDED STRIPPING PLY.

10 BASE FLASHING CLOSURE
SCALE: 3" = 1'-0"

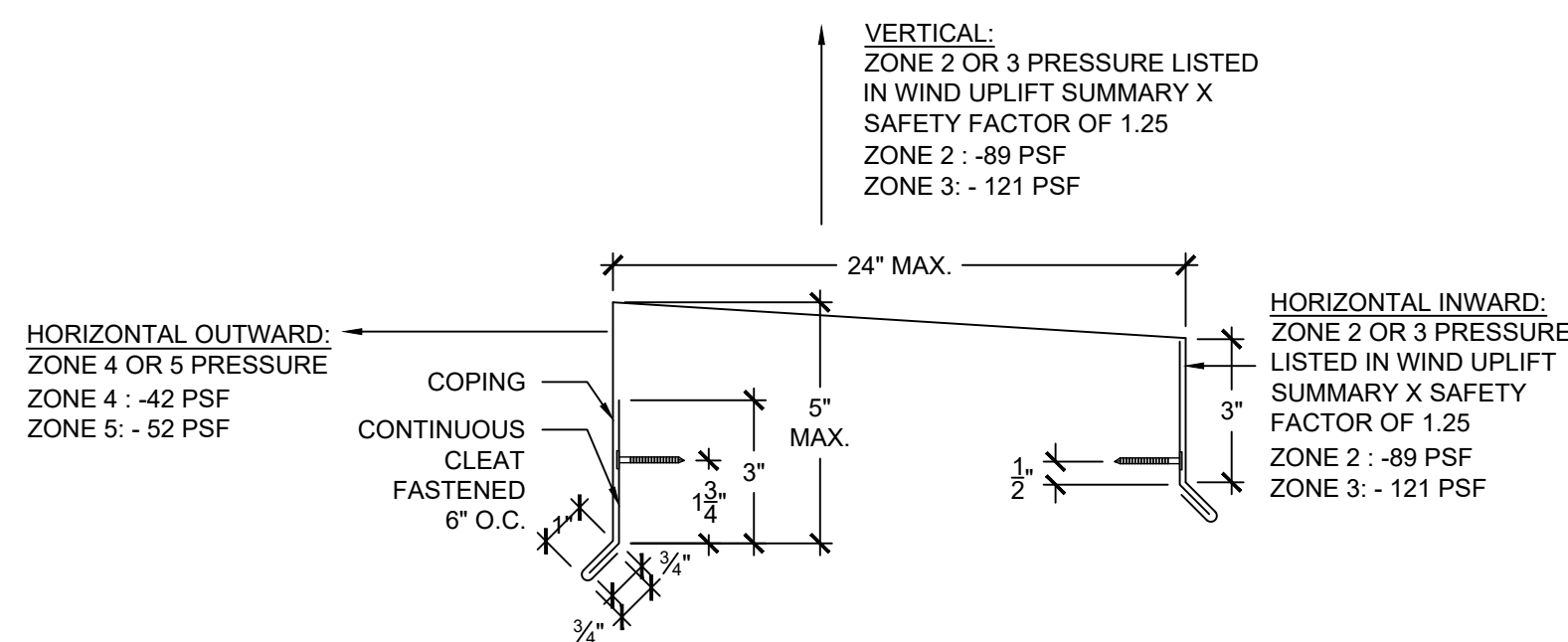
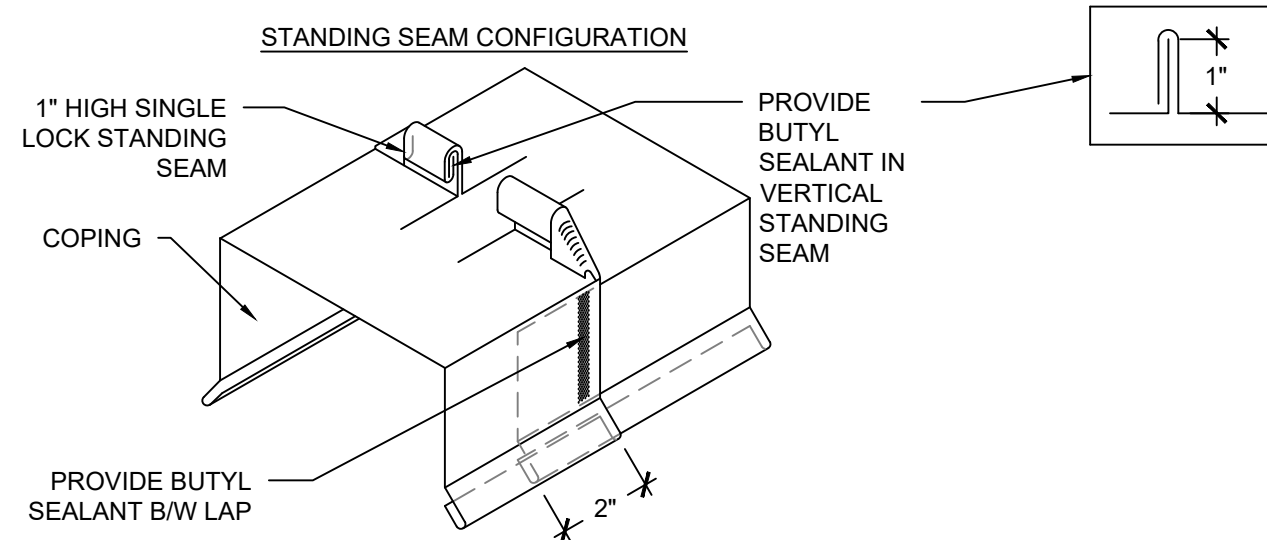


- NOTES:
- PROPERLY DISCONNECT UNIT TO RAISE AND ALLOW FLASHING INSTALLATION THEN PROPERLY REINSTALL AND CONNECT.
 - EXTEND CURB HEIGHT AND/OR PROVIDE WOOD NAILERS TO PROVIDE MINIMUM 8" FLASHING HEIGHT.

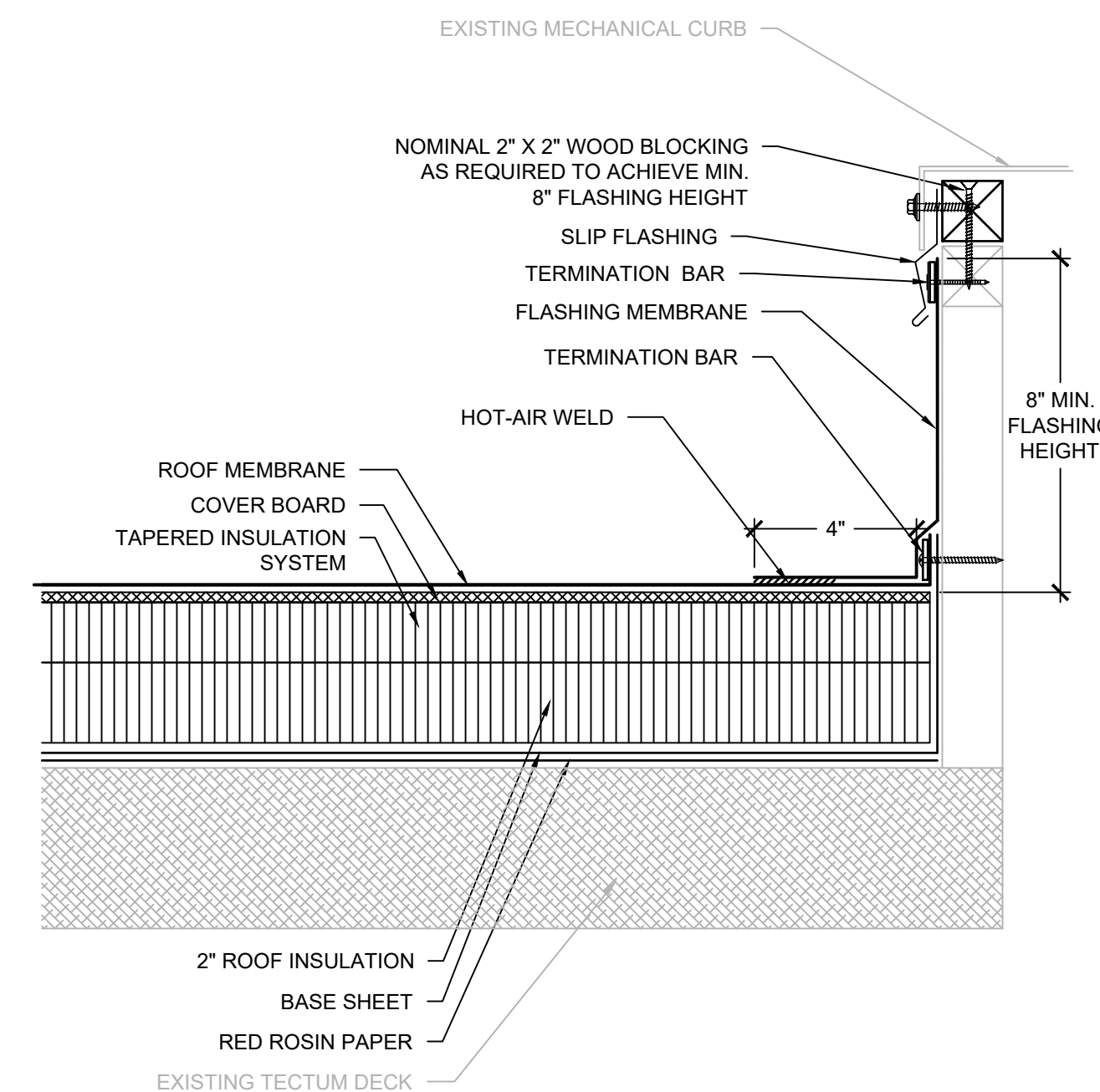
11 MECHANICAL CURB-SECTOR 2
SCALE: 3" = 1'-0"



12 COPING END CLOSURE
SCALE: N.T.S.

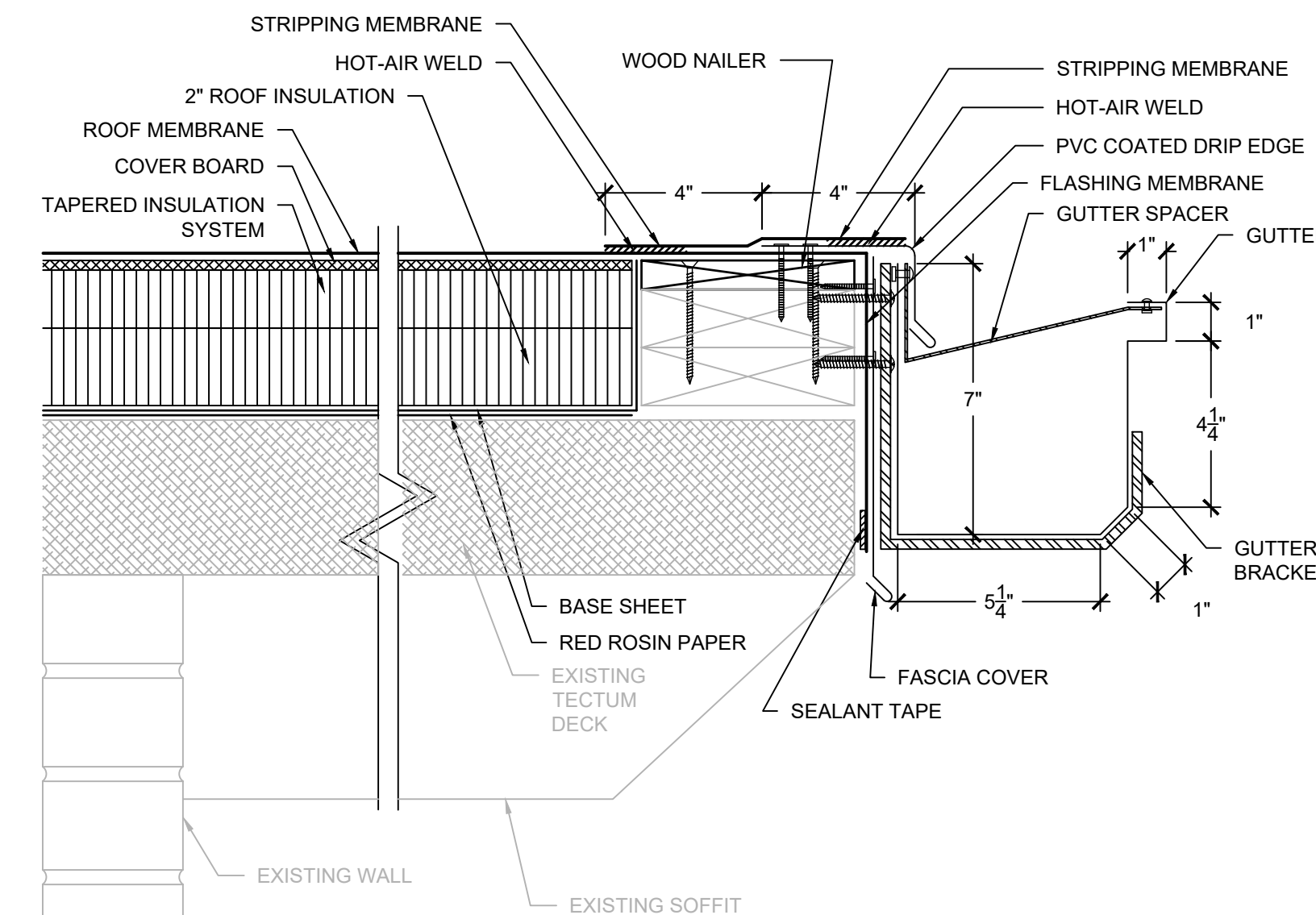


13 STANDING SEAM
SCALE: 3" = 1'-0"



- NOTES:
- PROPERLY DISCONNECT UNIT TO RAISE AND ALLOW FLASHING INSTALLATION THEN PROPERLY REINSTALL AND CONNECT.
 - EXTEND CURB HEIGHT AND/OR PROVIDE WOOD NAILERS TO PROVIDE MINIMUM 8" FLASHING HEIGHT.

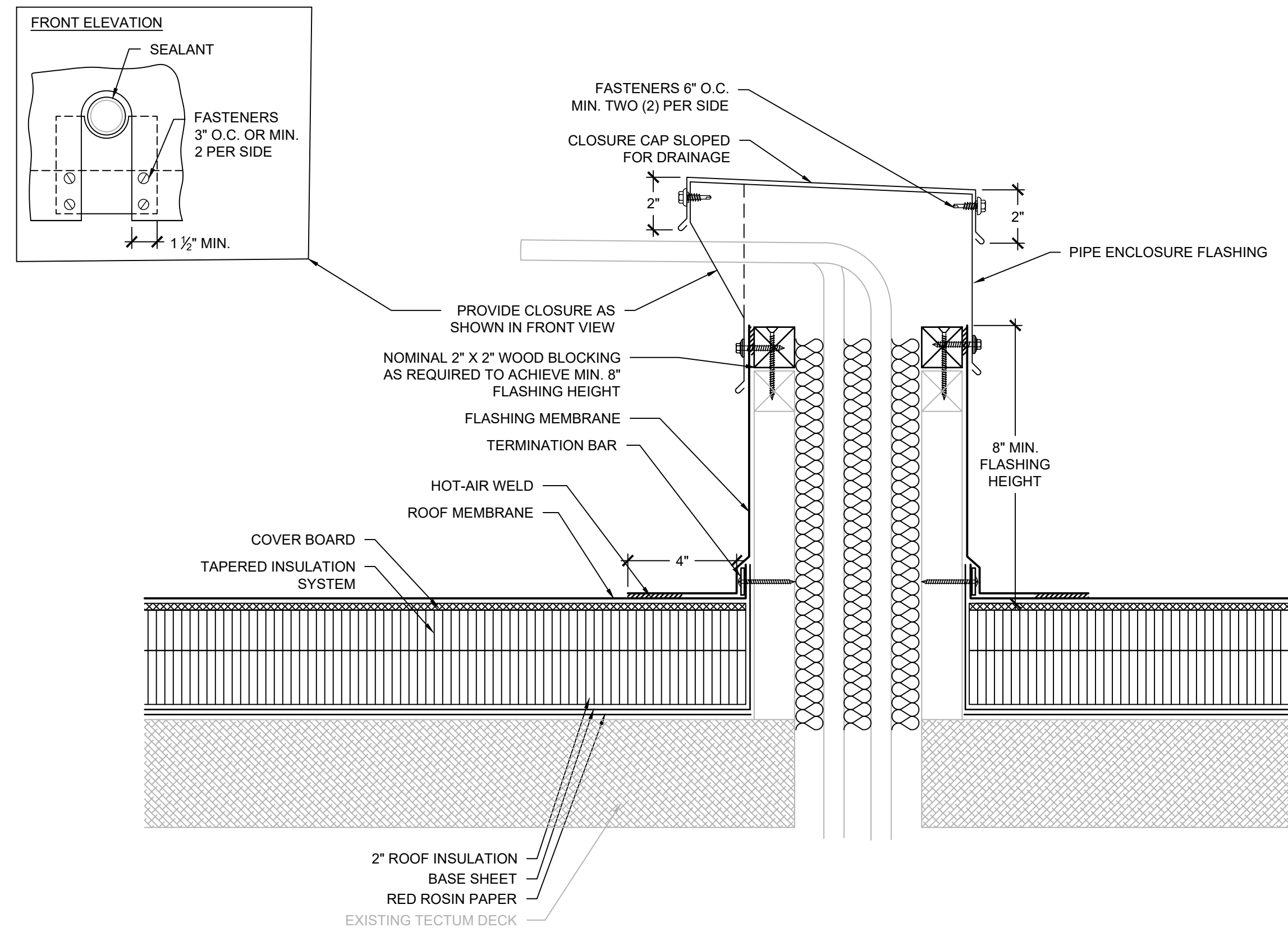
14 MECHANICAL CURB-SECTOR 1
SCALE: 3" = 1'-0"



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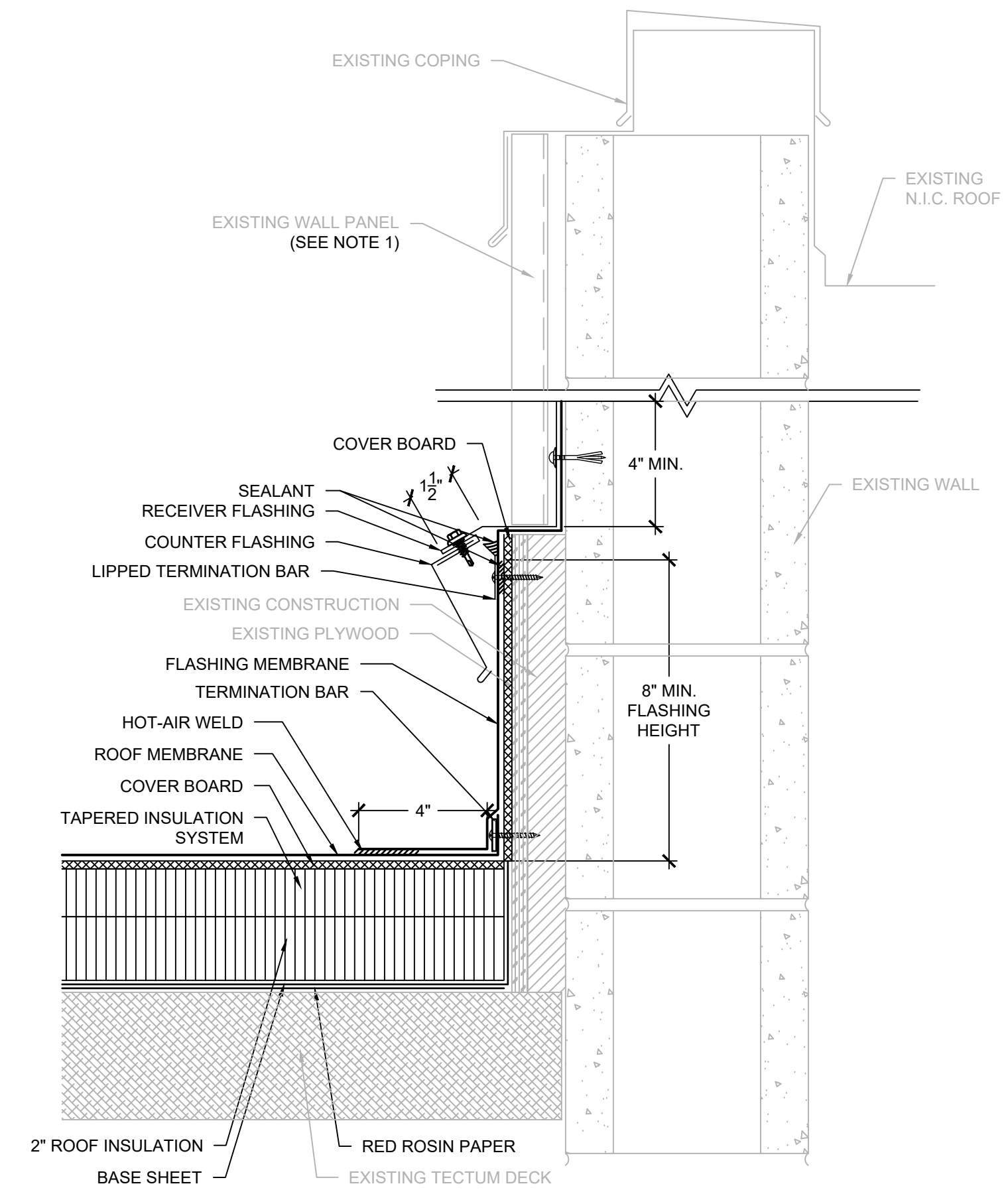
15 ROOF EDGE-SECTOR 1
SCALE: 3" = 1'-0"

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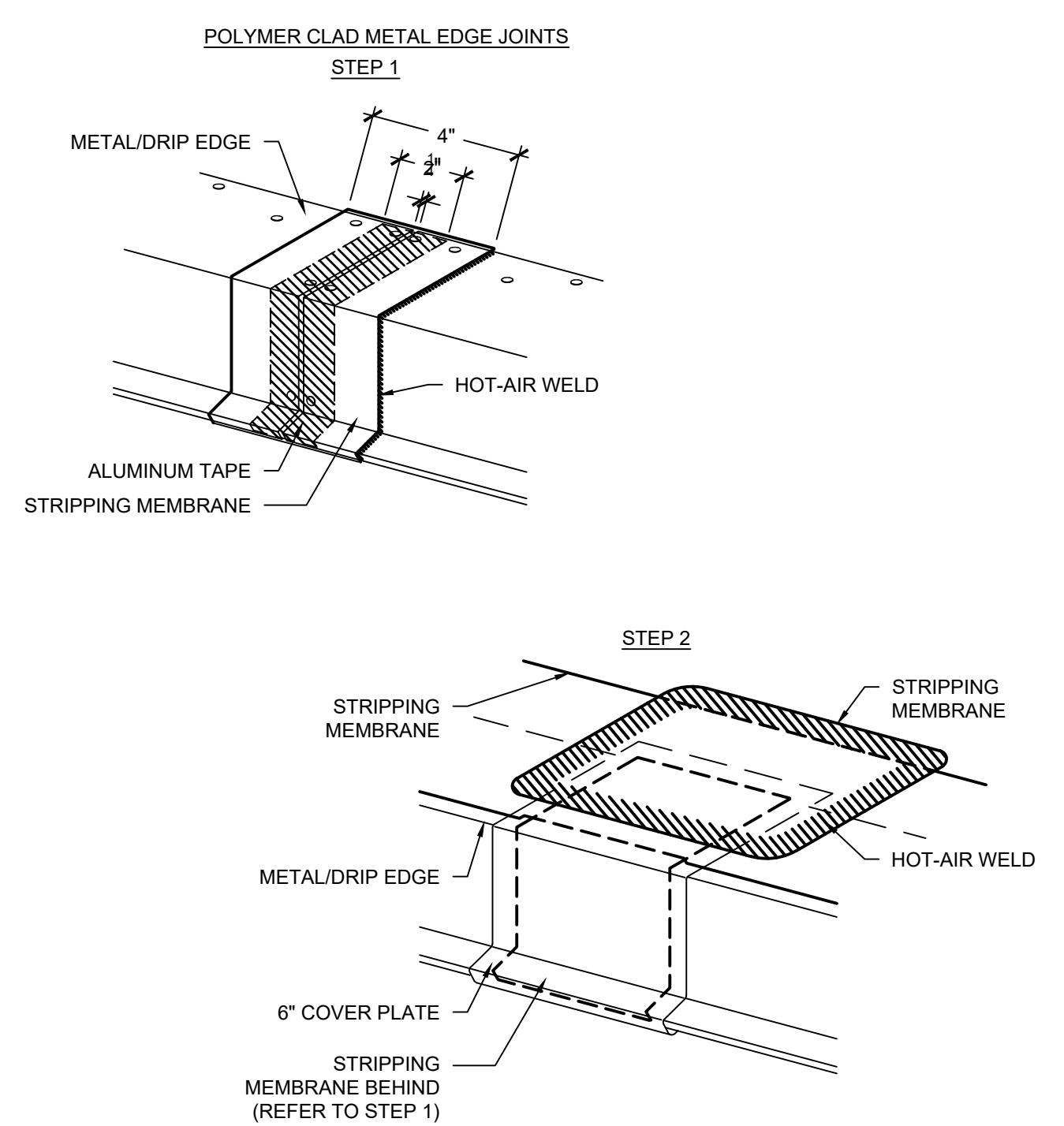
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16 MULTIPLE PIPE PENETRATION CURB-SECTOR 1
 SCALE: 3" = 1'-0"

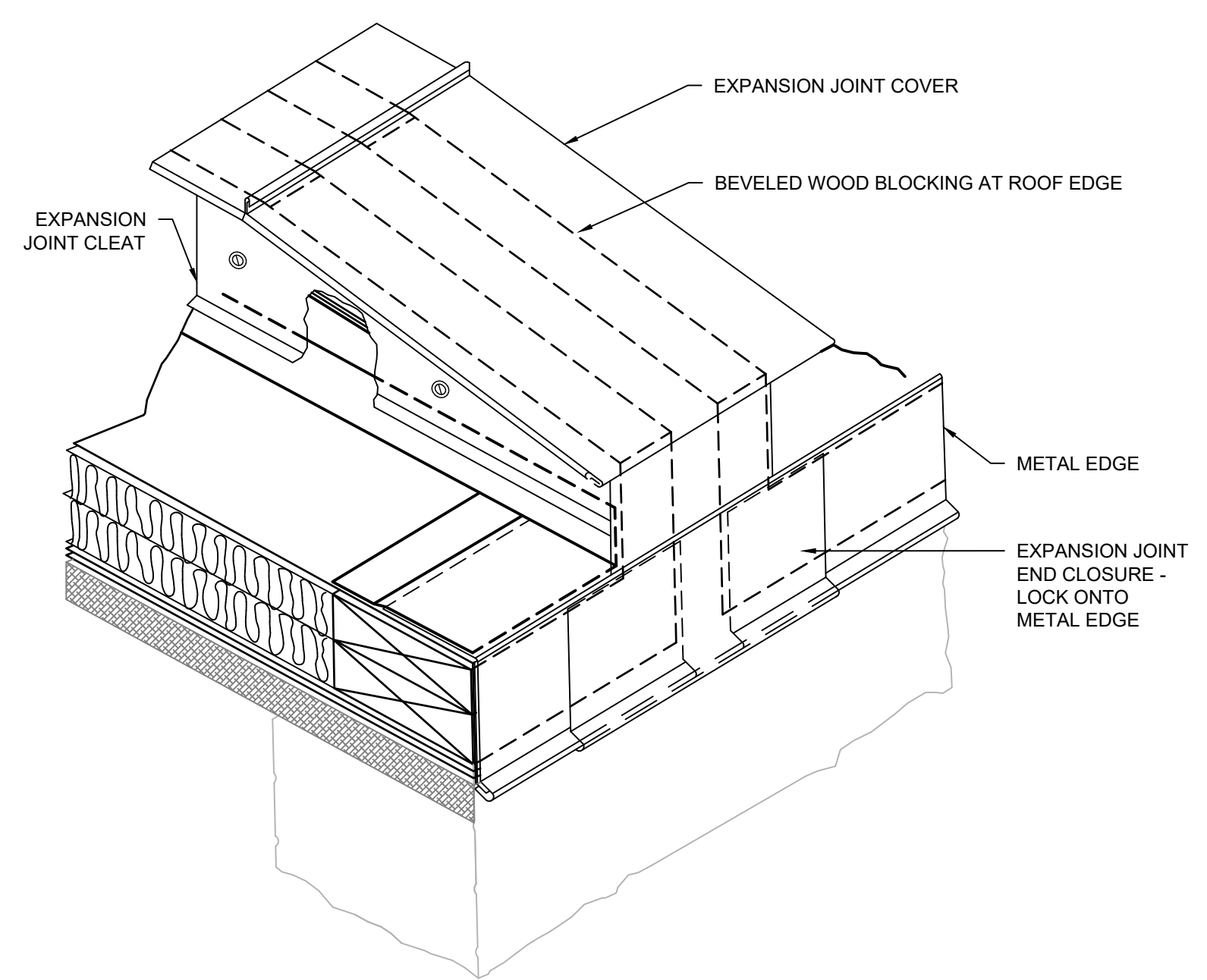


NOTES:
 1. MODIFY/REMOVE EXISTING METAL PANELS AS NEEDED TO INSTALL RECEIVER FLASHING.

17 SECTOR 1 ROOF TO N.I.C. ROOF
 SCALE: 3" = 1'-0"



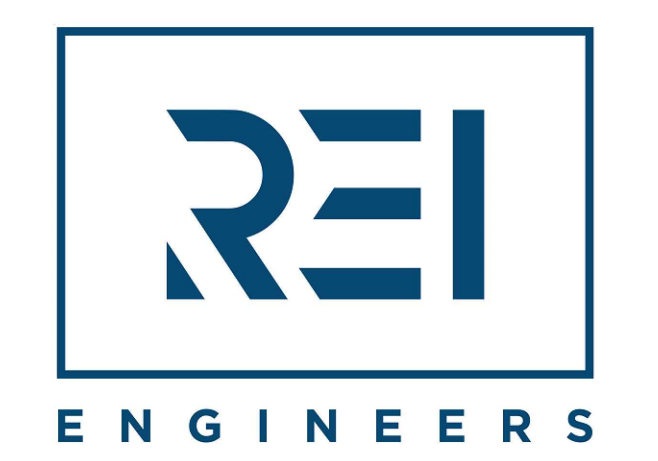
18 POLYMER CLAD METAL EDGE JOINTS
 SCALE: 3" = 1'-0"



NOTES:
 1. EXPANSION JOINT END CLOSURE IS FOR GENERAL INFORMATION ONLY AND MAY NOT DEPICT ACTUAL CONFIGURATION OF COMPONENTS. REFER TO THE SPECIFIED DETAIL FOR ACTUAL CONFIGURATION OF COMPONENTS.

19 EXPANSION JOINT END CLOSURE
 SCALE: N.T.S

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