

YORK COUNTY

EMERGENCY OPERATIONS CENTER

ROOF REPLACEMENT

149 WEST BLACK STREET

ROCK HILL, SOUTH CAROLINA 29730

REI PROJECT NO. R25CLT-130

DATE: 03-19-2026



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

DRAWING INDEX:

G-001 COVER

XR101 ROOF PLAN

XR102 DEMOLITION PLAN

XR301 ROOF SYSTEMS

XR501 DETAILS

XR502 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

NFPA 70 WITH SC MODIFICATIONS

A SITE PLAN

SCALE: N.T.S.

B GENERAL NOTES & INFORMATION

SCALE: N.T.S.



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SEALS:



ROOF SECTOR	AREA	HEIGHT (FT.)
ROOF A1	± 10,292 SQ. FT.	25'
ROOF A2	± 42 SQ. FT.	13'
ROOF A3	± 42 SQ. FT.	13'

WIND UPLIFT SUMMARY

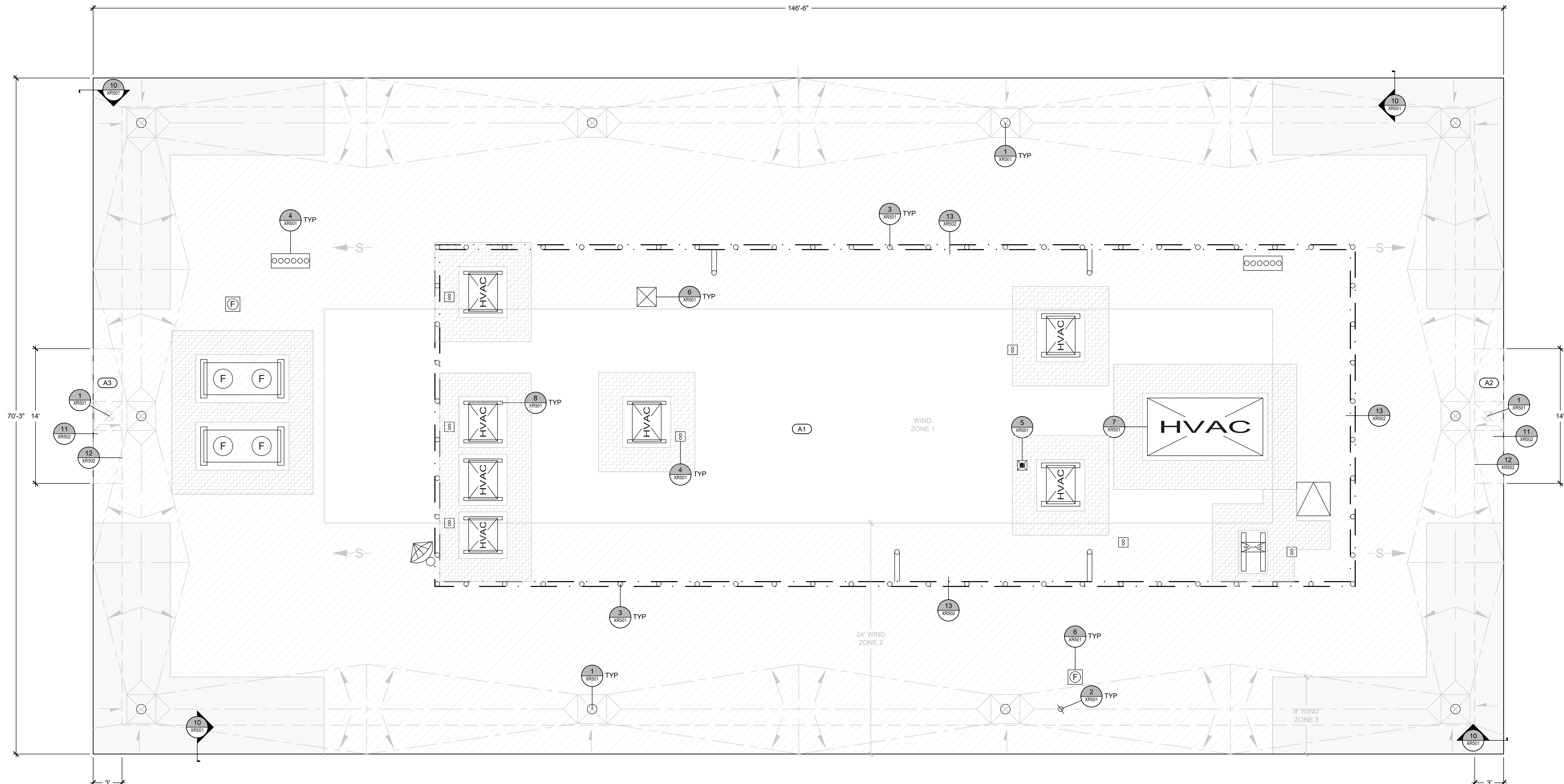
ASCE 7 - 16

ULTIMATE DESIGN WIND SPEED	119 MPH	
RISK CATEGORY	III	
EXPOSURE	C	
ENCLOSURE	ENCLOSED	
	ULTIMATE WIND UPLEFT PRESSURES (psf)	MIN. REQUIRED WIND UPLEFT STRENGTH (See Table X 1-2B)
ZONE 1' - INTERIOR	-32 PSF	-40 PSF
ZONE 1 - FIELD	-55 PSF	-69 PSF
ZONE 2 - PERIMETER	-73 PSF	-92 PSF
ZONE 3 - CORNER	-99 PSF	-124 PSF
ZONE 4 - PERIMETER	-35 PSF	-44 PSF
ZONE 5 - CORNER	-42 PSF	-53 PSF

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

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KEY	ROOF EDGE
—R—	RIDGE
—V—	VALLEY
—H—	HIP
---	TAPERED INSULATION
---	STRUCTURAL SLOPE
---	TAPERED INSULATION SLOPE
---	CRICKET SLOPE
---	ROOF OVERHANG
⊙	ROOF DRAIN
⊙	PIPE PENETRATION
⊙	HIGH HEAT CURB
⊙	HVAC UNIT
⊙	MECHANICAL CURB
⊙	ABANDONED CURB
⊙	MULTIPLE PIPE PENETRATION
⊙	EXHAUST FAN
⊙	GRAVITY VENT
⊙	ROOF HATCH
⊙	EQUIPMENT SUPPORT CURB
---	SCREEN WALL
---	SATELLITE DISH (POLE MOUNTED)
---	WALKPAD
---	NOT IN CONTRACT
---	ELEVATION CHANGE
---	ROOF AREA INDICATOR
---	NOTE NO.
---	DETAIL INDICATOR
---	SECTION INDICATOR



ROOF PLAN

SCALE: 3/16" = 1'-0"



3/16" = 1'-0"

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SHEET TITLE:

ROOF PLAN

DRAWING:

XR101



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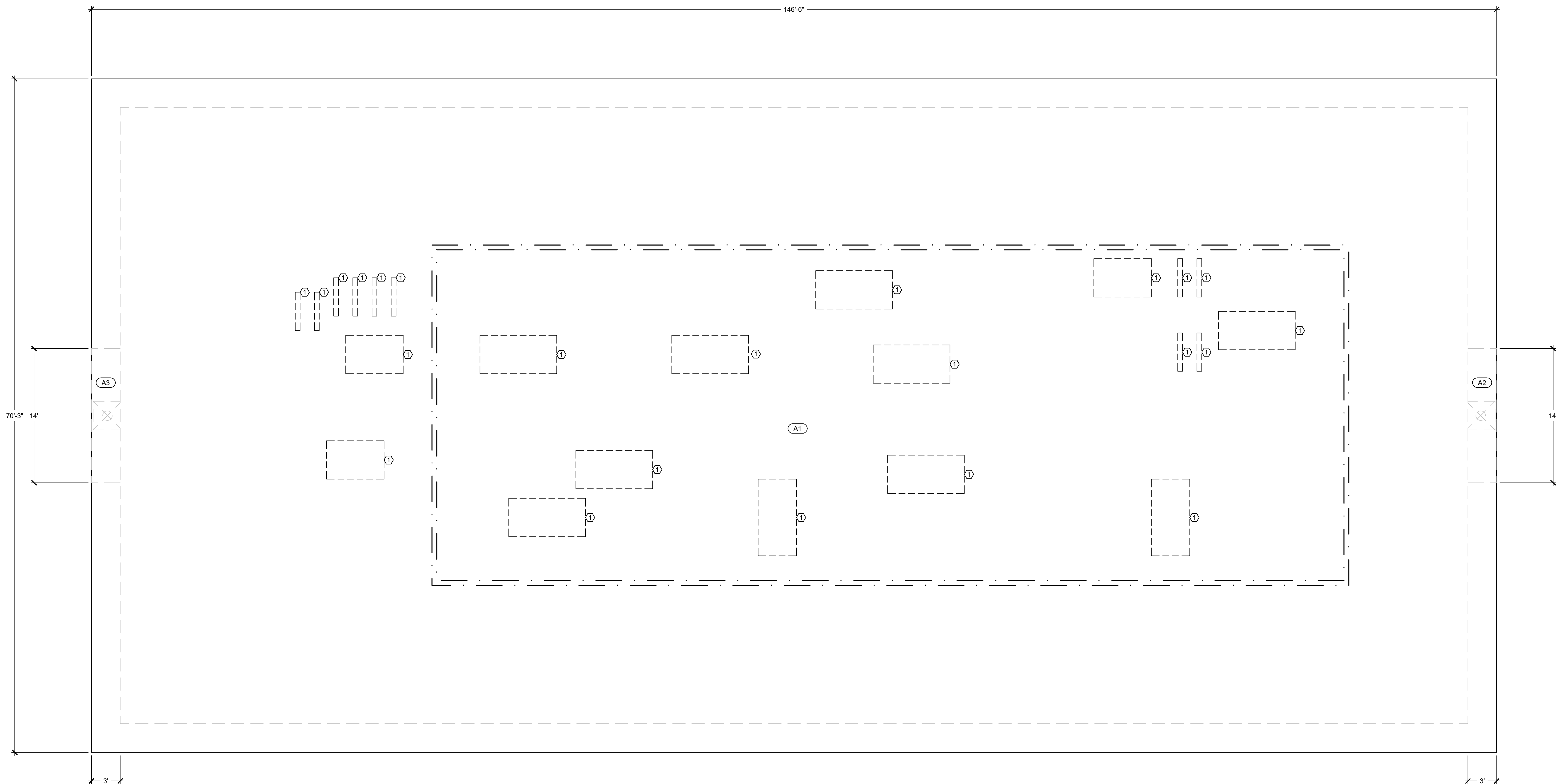
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SHEET TITLE:

DEMOLITION
PLAN

DRAWING:

XR102



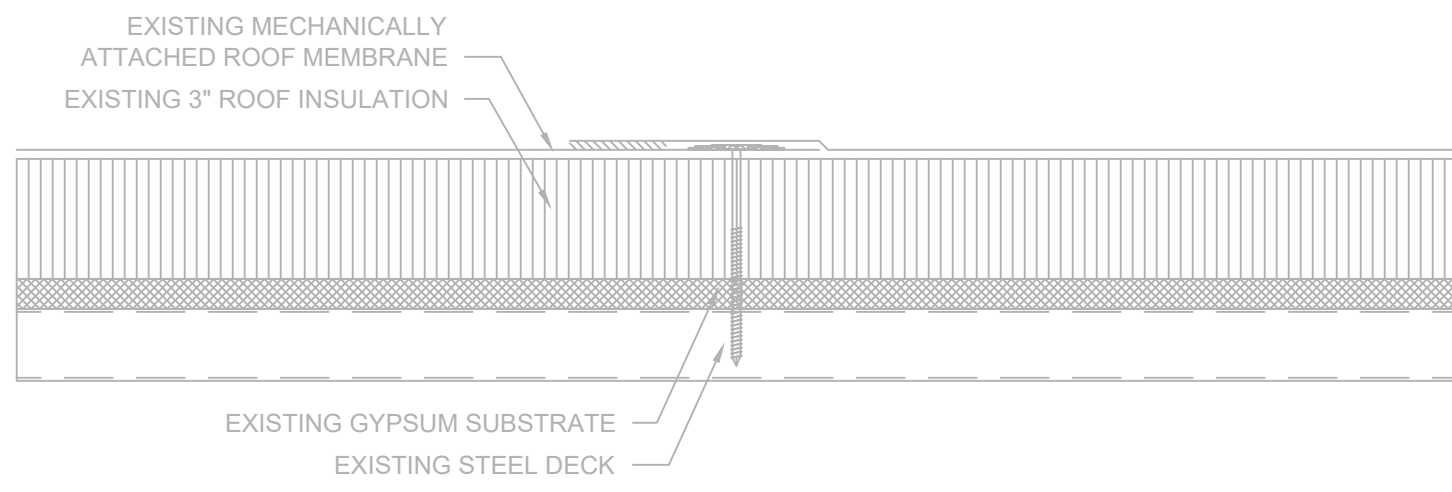
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- SHEET NOTES:
- REMOVE ABANDONED PENETRATION AND PROPERLY REPAIR DECK.

- KEY
- ROOF EDGE
 - - - ROOF OVERHANG
 - - - ABANDONED CURB
 - - - SCREEN WALL
 - SATELLITE DISH (POLE MOUNTED)
 - ⊗ ROOF AREA INDICATOR
 - ① NOTE NO.



3/16" = 1'-0"

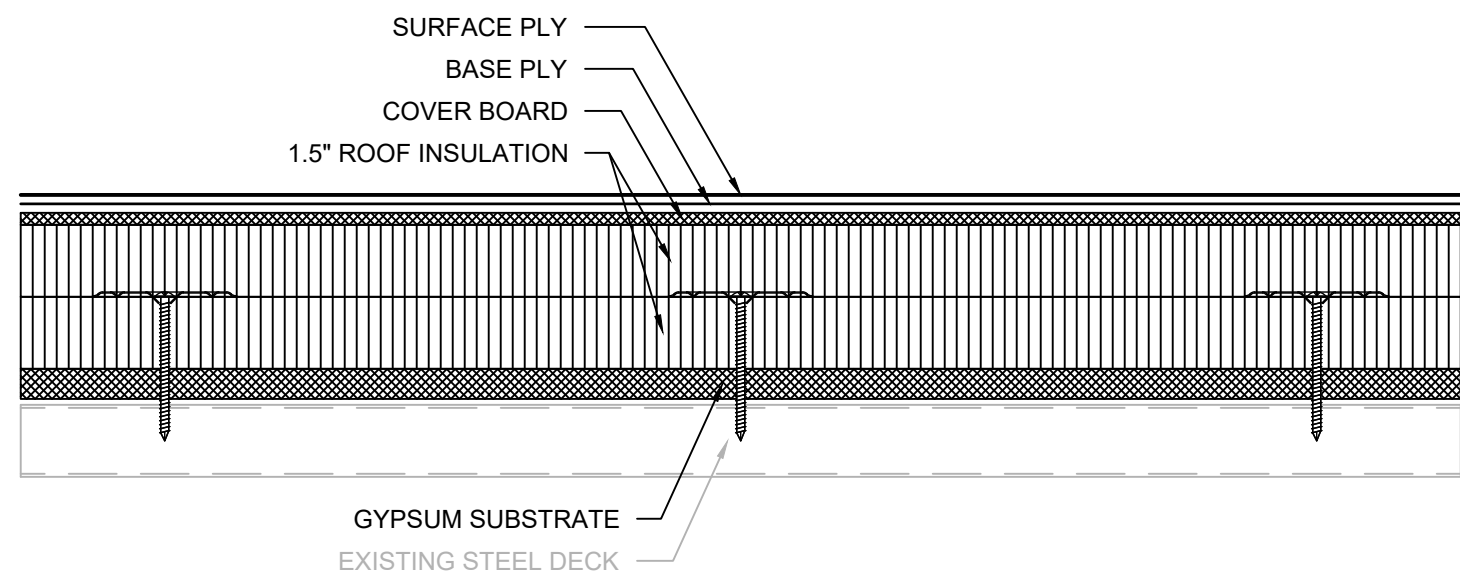
A ROOF PLAN
SCALE: 3/16" = 1'-0"



- 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 STEEL DECK TO REMAIN.

A1 EXISTING ROOF SYSTEM

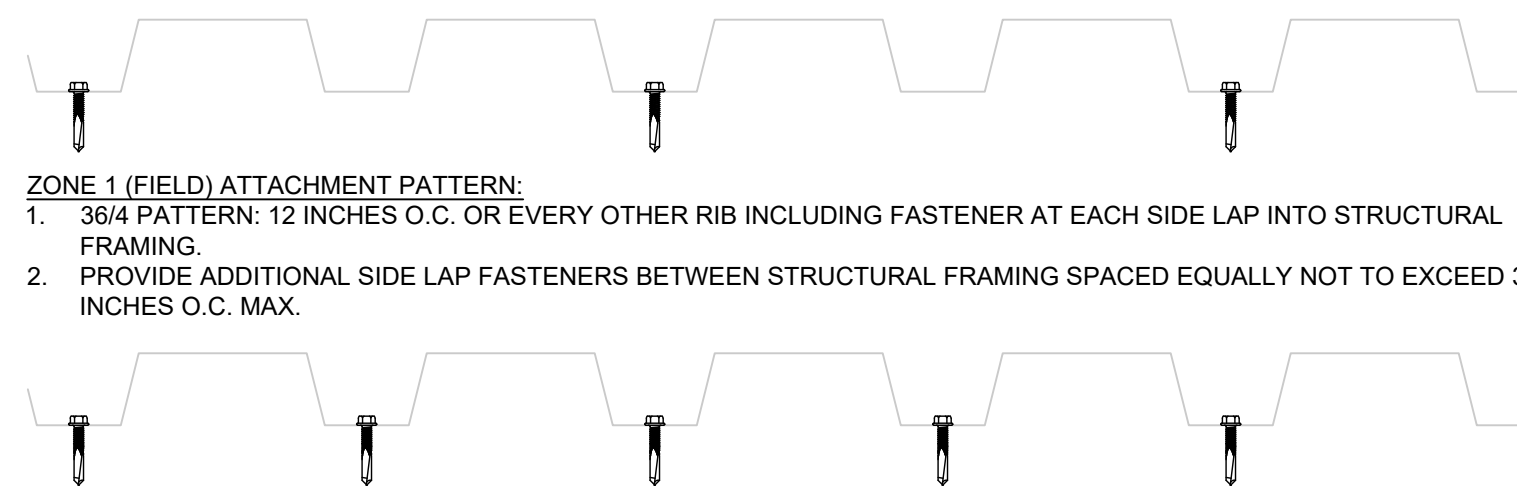
SCALE: 3" = 1'-0"



- 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 XR101. 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

SCALE: 3" = 1'-0"



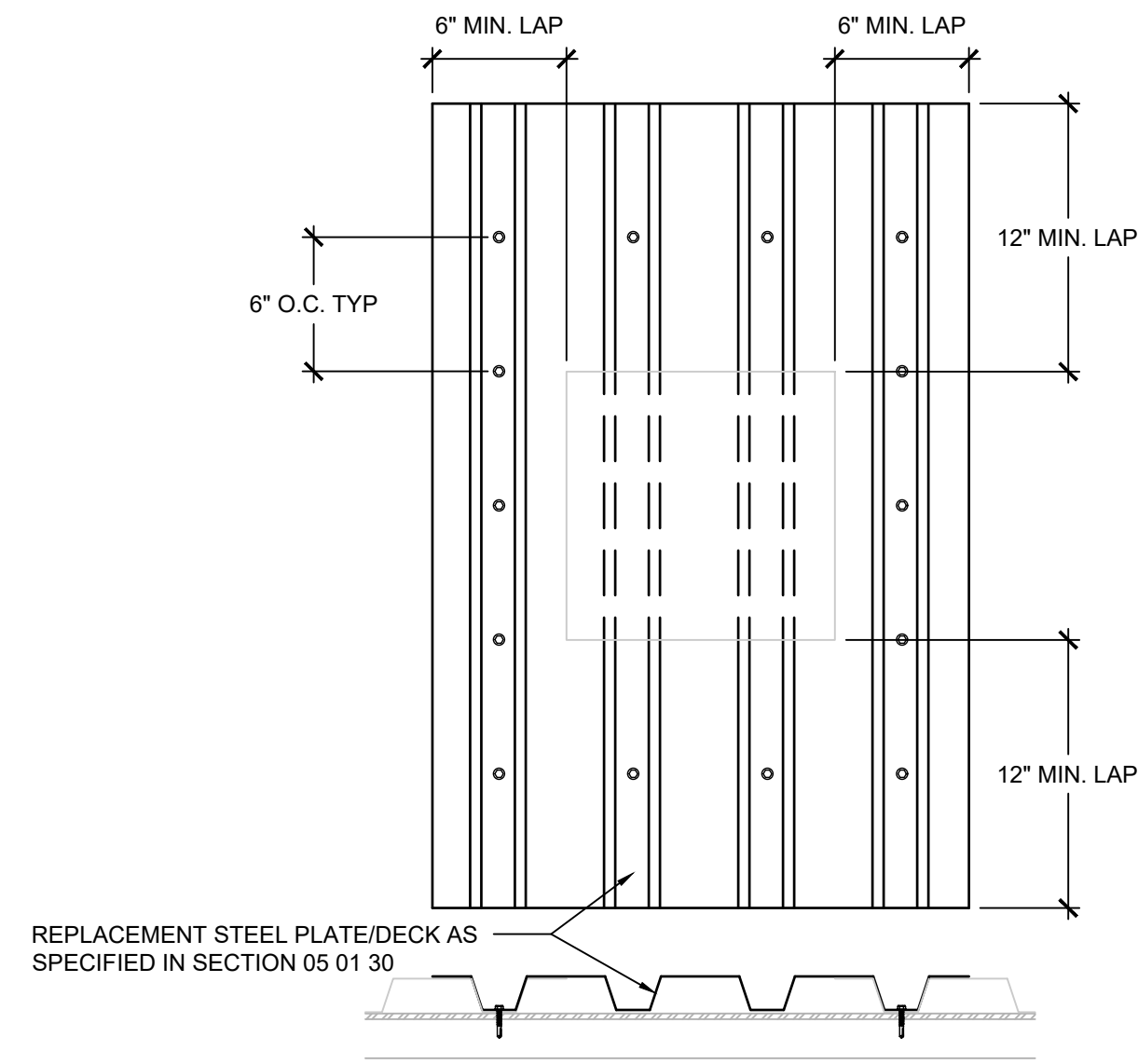
- ZONE 1 (FIELD) ATTACHMENT PATTERN:
- 36/4 PATTERN: 12 INCHES O.C. OR EVERY OTHER RIB INCLUDING FASTENER AT EACH SIDE LAP INTO STRUCTURAL FRAMING.
 - PROVIDE ADDITIONAL SIDE LAP FASTENERS BETWEEN STRUCTURAL FRAMING SPACED EQUALLY NOT TO EXCEED 36 INCHES O.C. MAX.

- ZONE 2 (PERIMETER) AND ZONE 3 (CORNER) ATTACHMENT PATTERN:
- 36/7 PATTERN: 6 INCHES O.C. OR EVERY RIB INCLUDING FASTENER AT EACH SIDE LAP INTO STRUCTURAL FRAMING.
 - PROVIDE ADDITIONAL SIDE LAP FASTENERS BETWEEN STRUCTURAL FRAMING SPACED EQUALLY NOT TO EXCEED 30 INCHES O.C. MAX.

- NOTES:
- REFER TO SPECIFICATION SECTION 05 01 30 "STEEL ROOF DECK REPAIR AND SECURMENT" FOR FASTENER SPECIFICATIONS AND ADDITIONAL ATTACHMENT INFORMATION.

C STEEL DECK SECUREMENT

SCALE: 3" = 1'-0"



REPLACEMENT STEEL PLATE/DECK AS SPECIFIED IN SECTION 05 01 30

D STEEL DECK REPAIR

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



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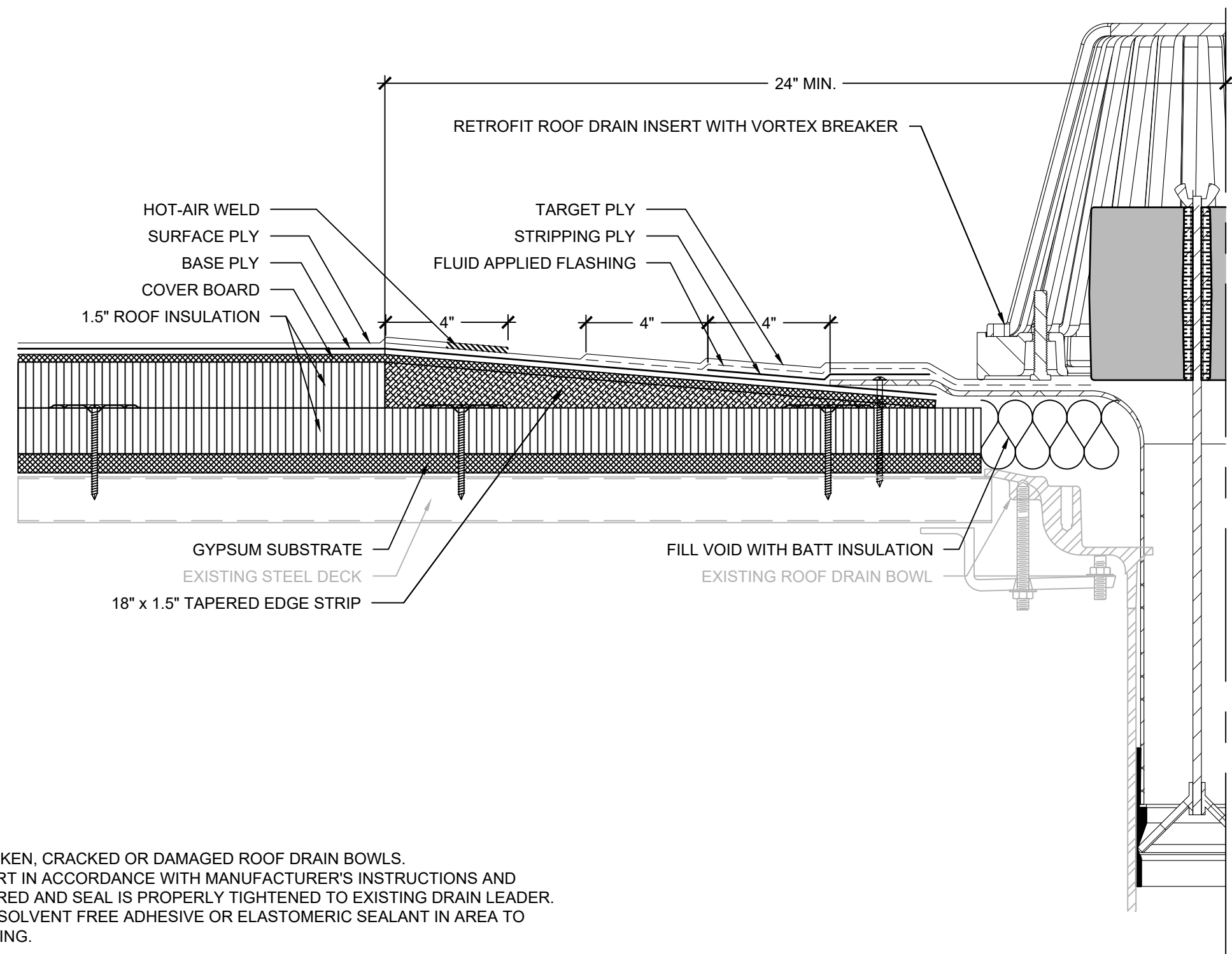
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ROOF SYSTEMS

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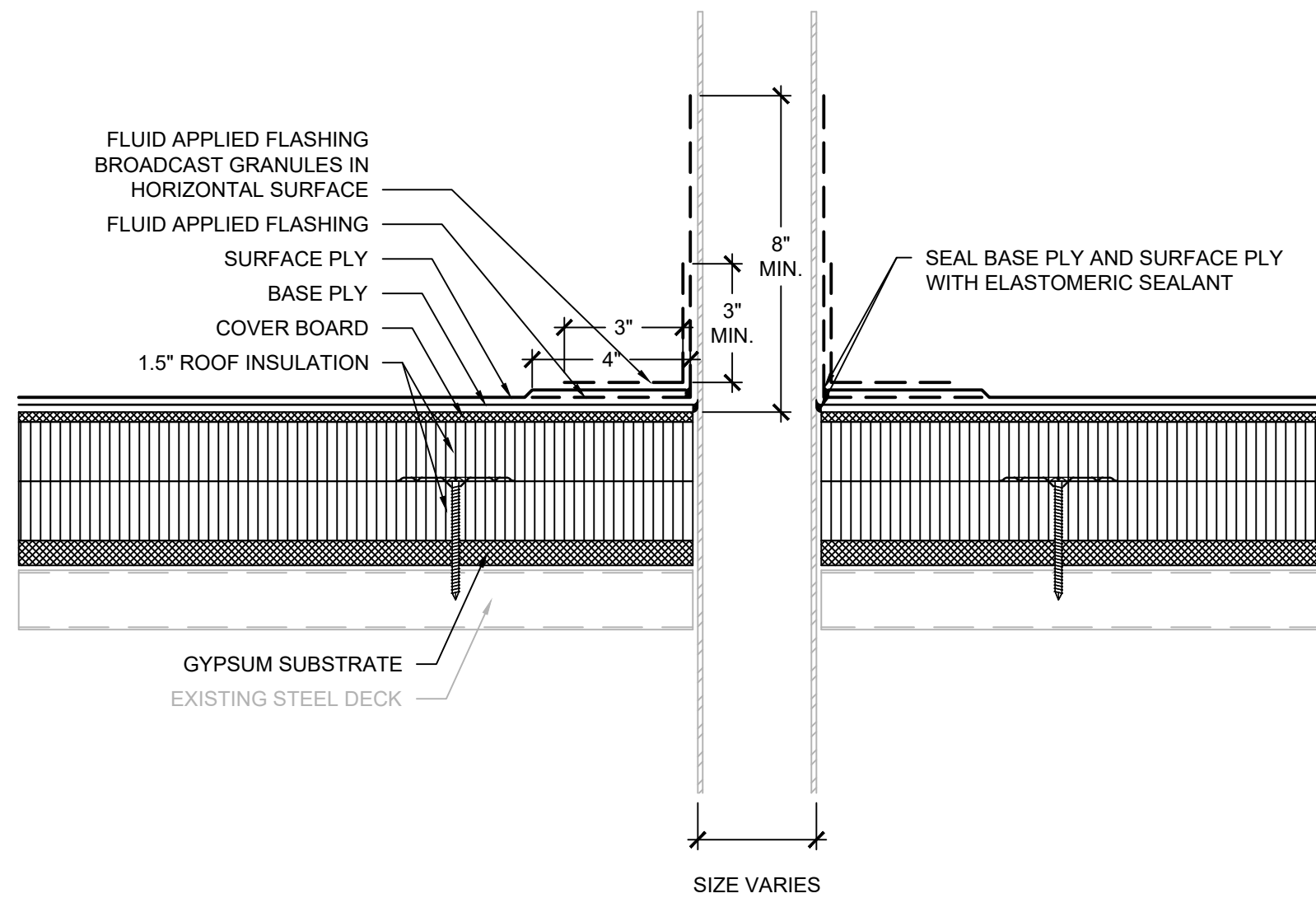
XR301



- NOTES:
1. NOTIFY ENGINEER OF ANY BROKEN, CRACKED OR DAMAGED ROOF DRAIN BOWLS.
 2. INSTALL RETROFIT DRAIN INSERT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ENSURE IT IS PROPERLY SECURED AND SEAL IS PROPERLY TIGHTENED TO EXISTING DRAIN LEADER.
 3. SET ALL PLIES IN FULL BED OF SOLVENT FREE ADHESIVE OR ELASTOMERIC SEALANT IN AREA TO RECEIVE FLUID APPLIED FLASHING.

1 RETROFIT ROOF DRAIN (WITH VORTEX BREAKER)

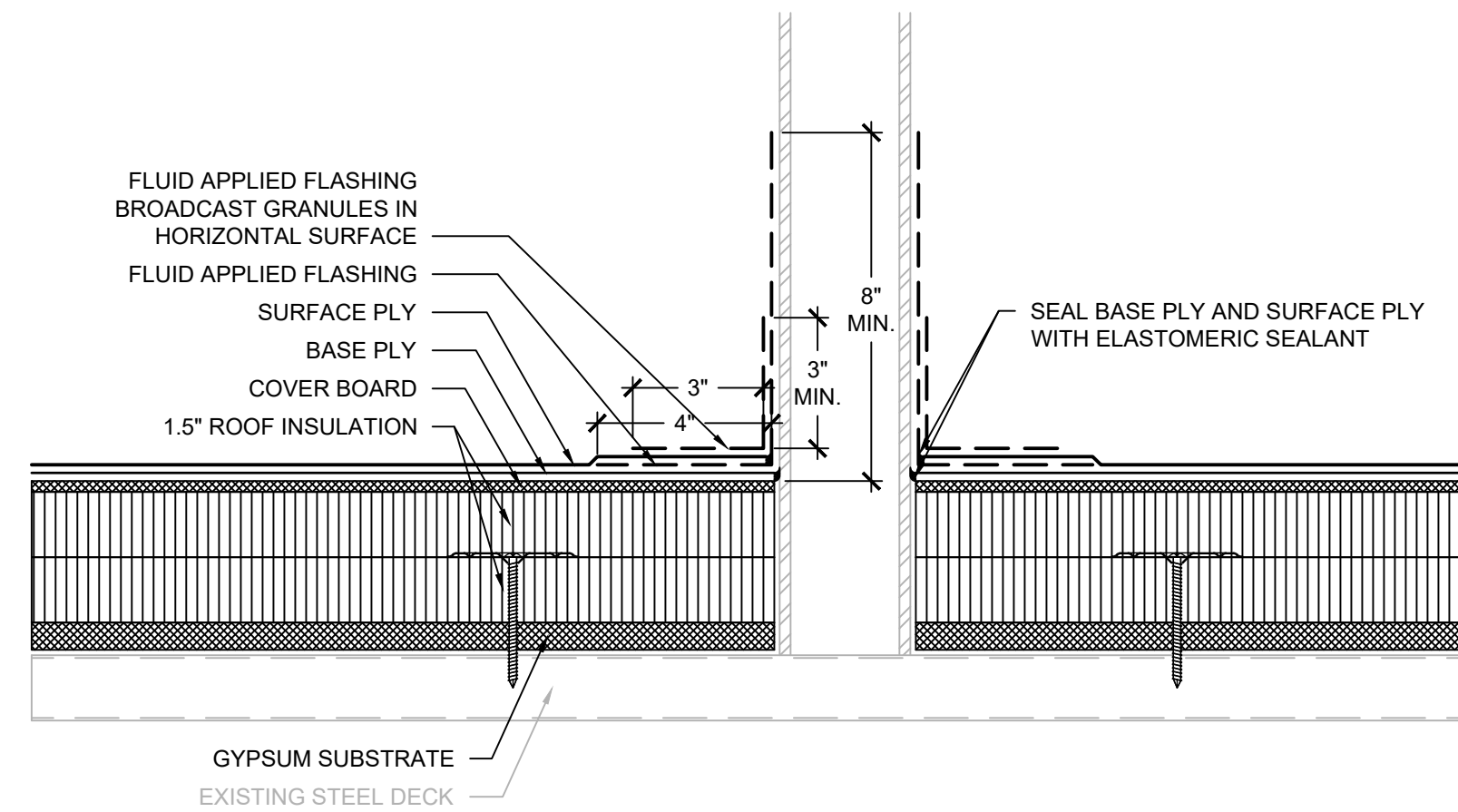
SCALE: 3" = 1'-0"



- NOTES:
1. EXTEND PIPE PENETRATION TO PROVIDE MINIMUM 8" FLASHING HEIGHT.

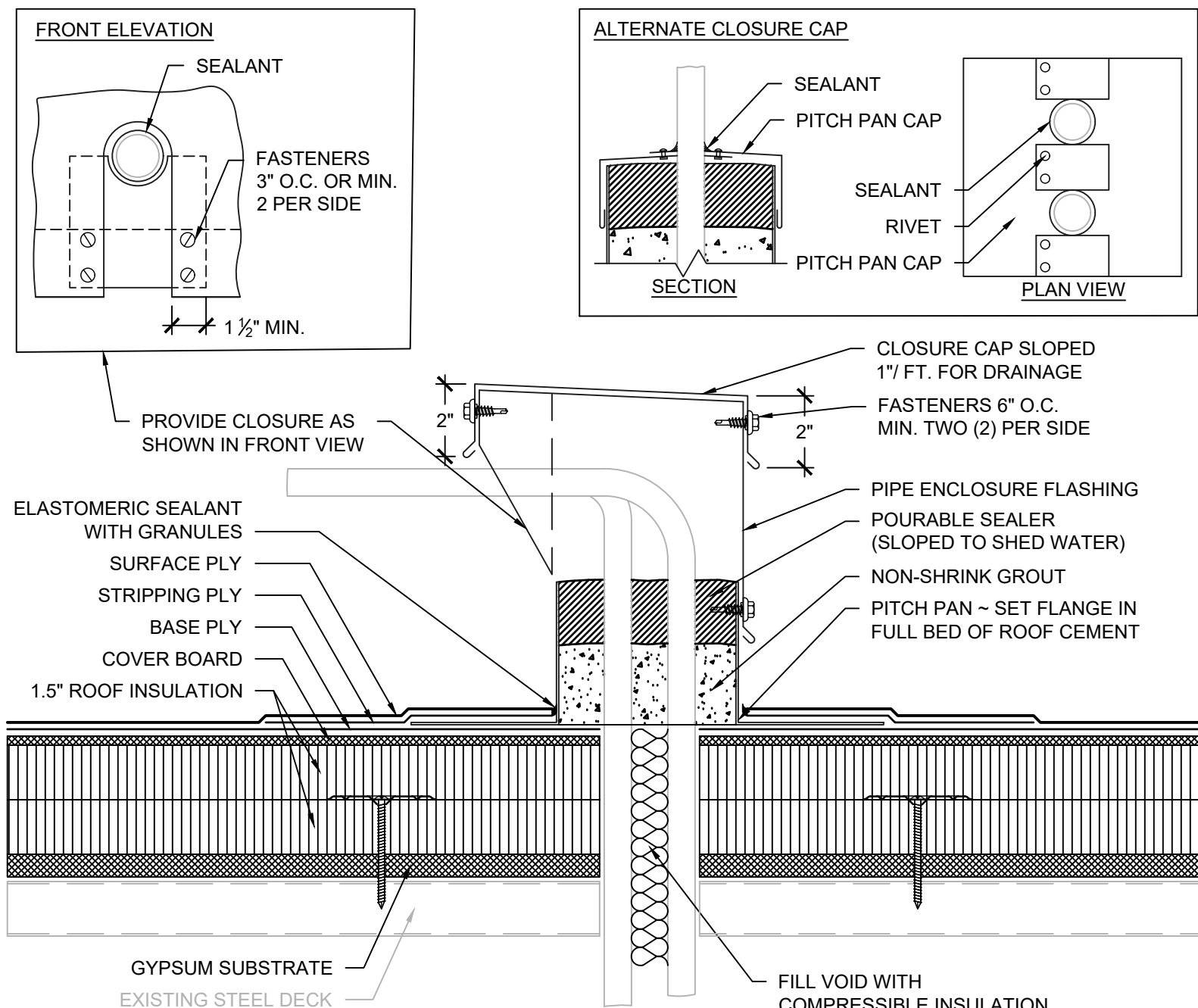
2 PIPE PENETRATION

SCALE: 3" = 1'-0"



3 STRUCTURAL STEEL PENETRATION

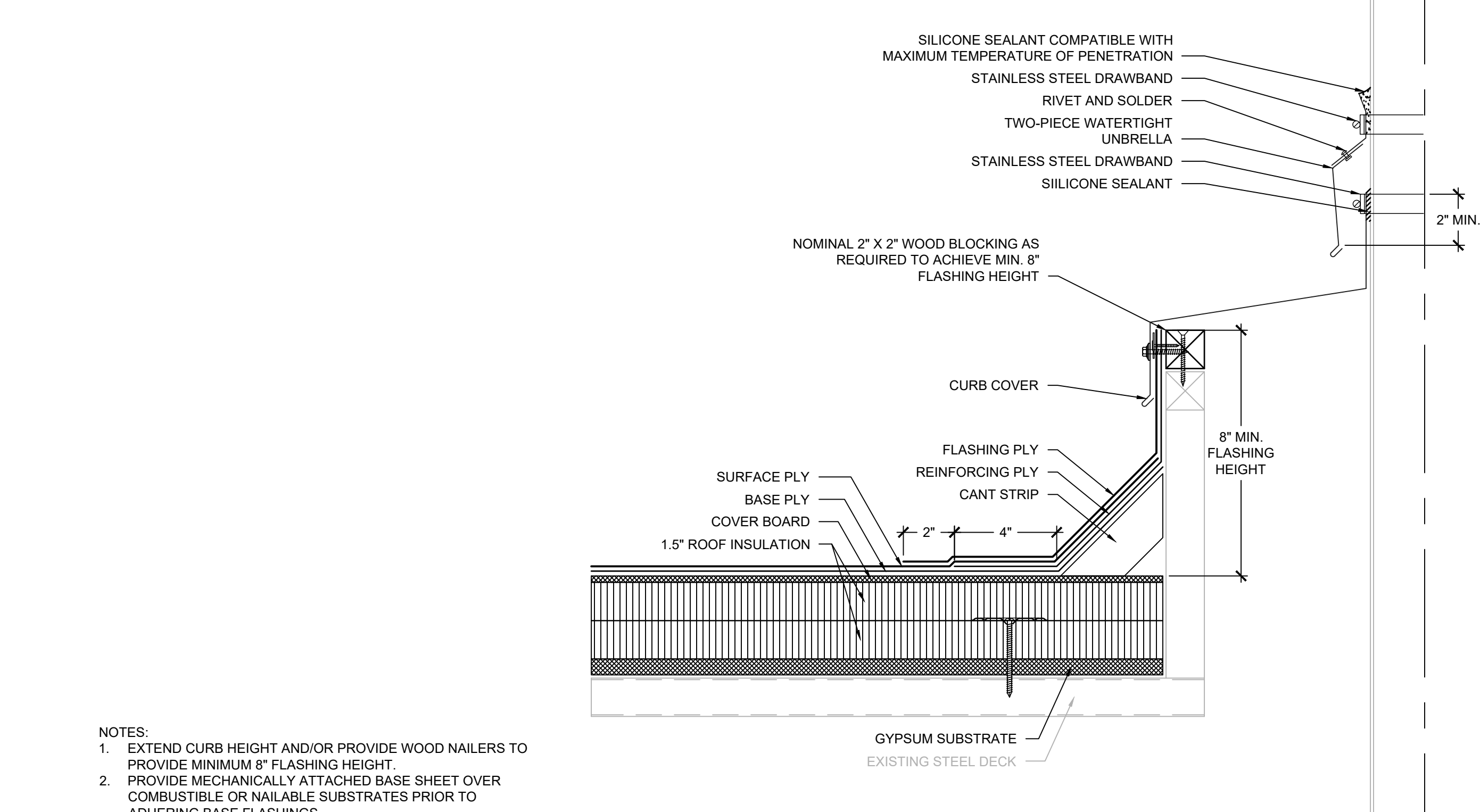
SCALE: 3" = 1'-0"



- NOTES:
1. WHERE PIPES CAN BE SEPARATED WITH 2" MIN. CLEARANCE, PROVIDE FLUID APPLIED FLASHING IN LIEU OF MULTIPLE PIPE PENETRATION FLASHING. UTILIZE RIGID INSULATION B/W PIPES TO MAINTAIN SEPARATION.
 2. WHERE PIPES ARE VERTICAL, PROVIDE ALTERNATE CLOSURE CAP.

4 MULTIPLE PIPE PENETRATION

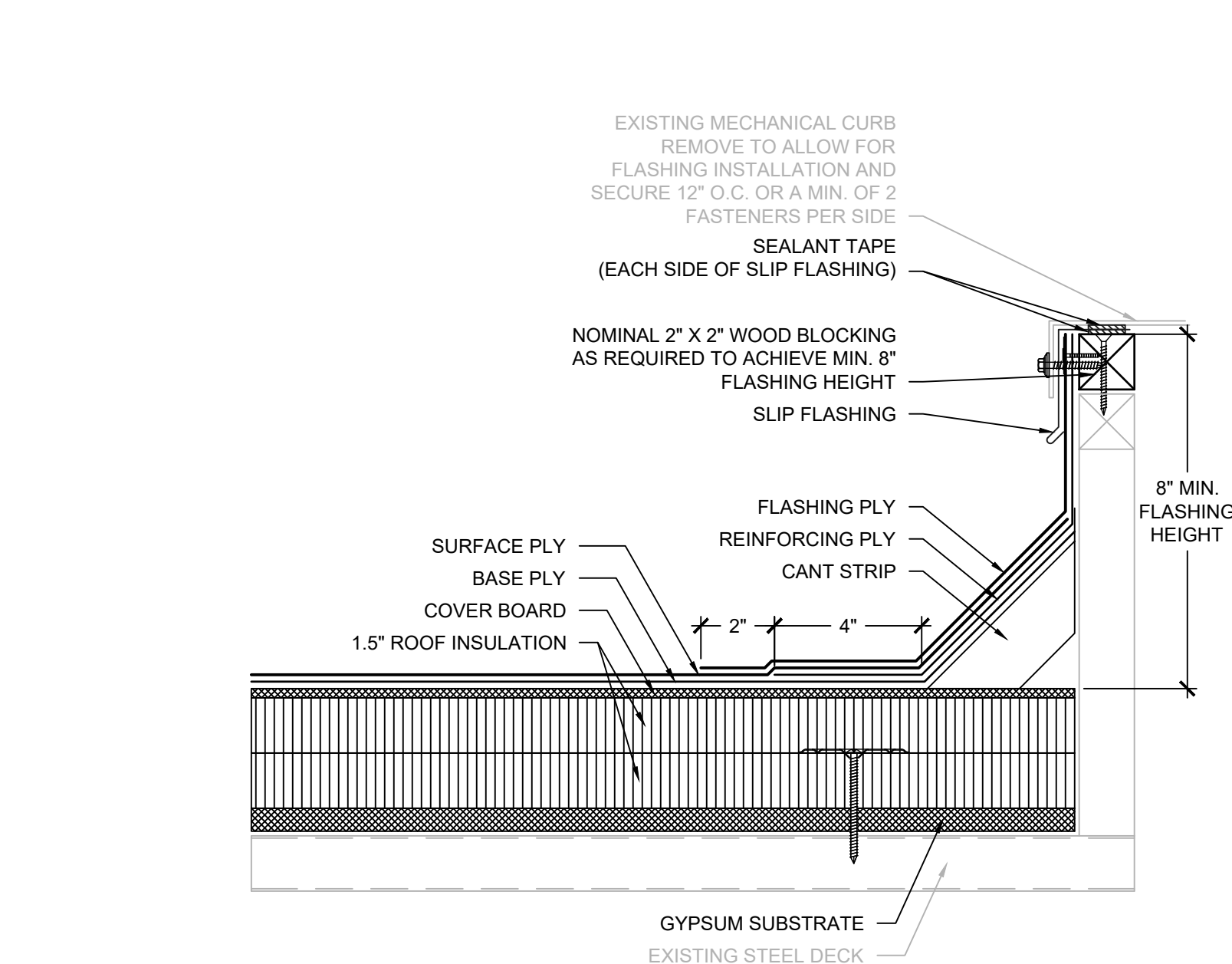
SCALE: 3" = 1'-0"



- NOTES:
1. EXTEND CURB HEIGHT AND/OR PROVIDE WOOD NAILERS TO PROVIDE MINIMUM 8" FLASHING HEIGHT.
 2. PROVIDE MECHANICALLY ATTACHED BASE SHEET OVER COMBUSTIBLE OR NAILABLE SUBSTRATES PRIOR TO ADHERING BASE FLASHINGS.

5 HIGH HEAT CURB

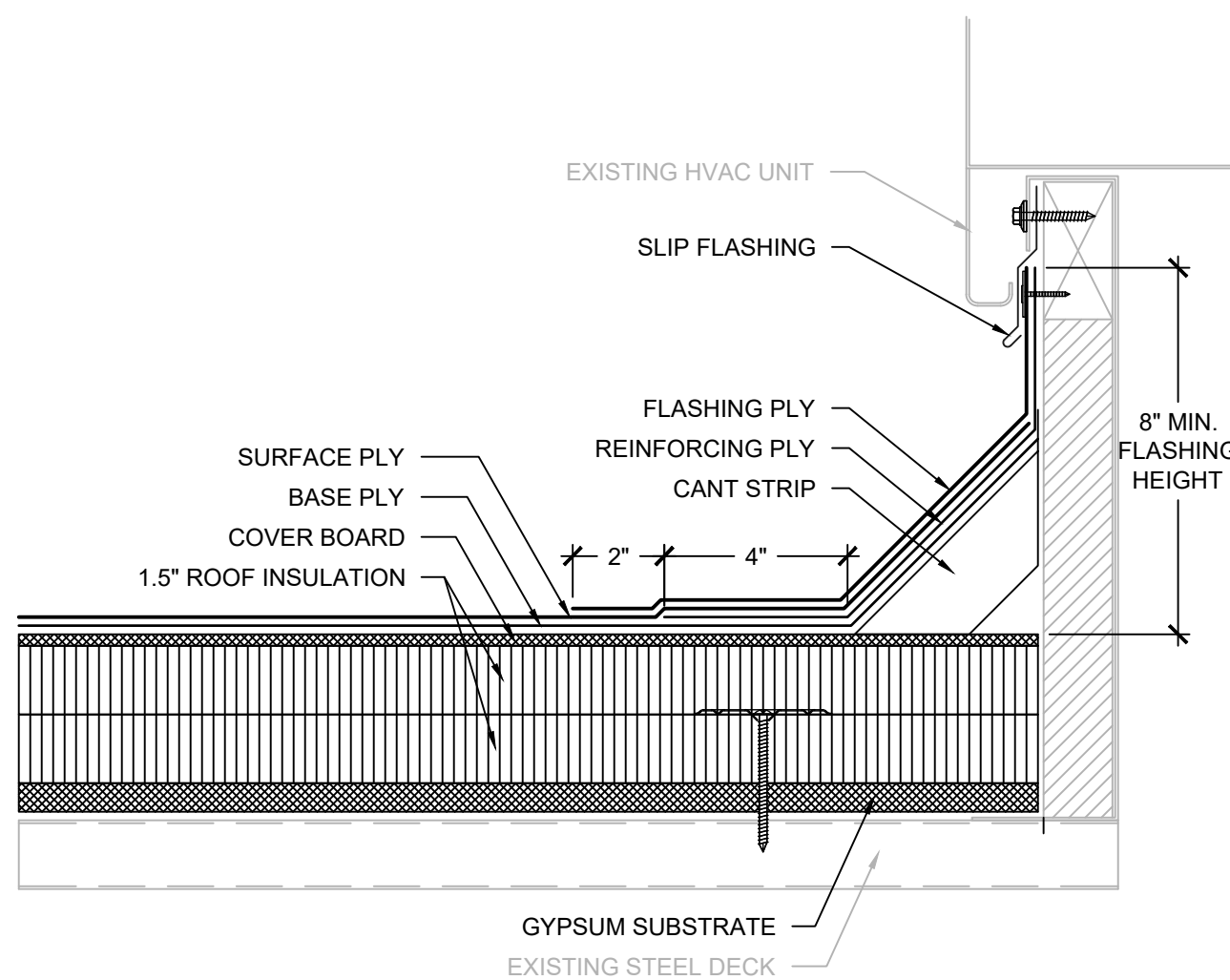
SCALE: 3" = 1'-0"



- NOTES:
1. PROPERLY DISCONNECT UNIT TO RAISE AND ALLOW FLASHING INSTALLATION THEN PROPERLY REINSTALL AND CONNECT.
 2. EXTEND CURB HEIGHT AND/OR PROVIDE WOOD NAILERS TO PROVIDE MINIMUM 8" FLASHING HEIGHT.
 3. ATTACH EQUIPMENT UNIT TO CURB WITH A MINIMUM OF TWO FASTENERS PER SIDE AND ENSURE ALL PRE-DRILLED HOLES ARE UTILIZED FOR ATTACHMENT.
 4. PROVIDE MECHANICALLY ATTACHED BASE SHEET OVER COMBUSTIBLE OR NAILABLE SUBSTRATES PRIOR TO ADHERING BASE FLASHINGS.

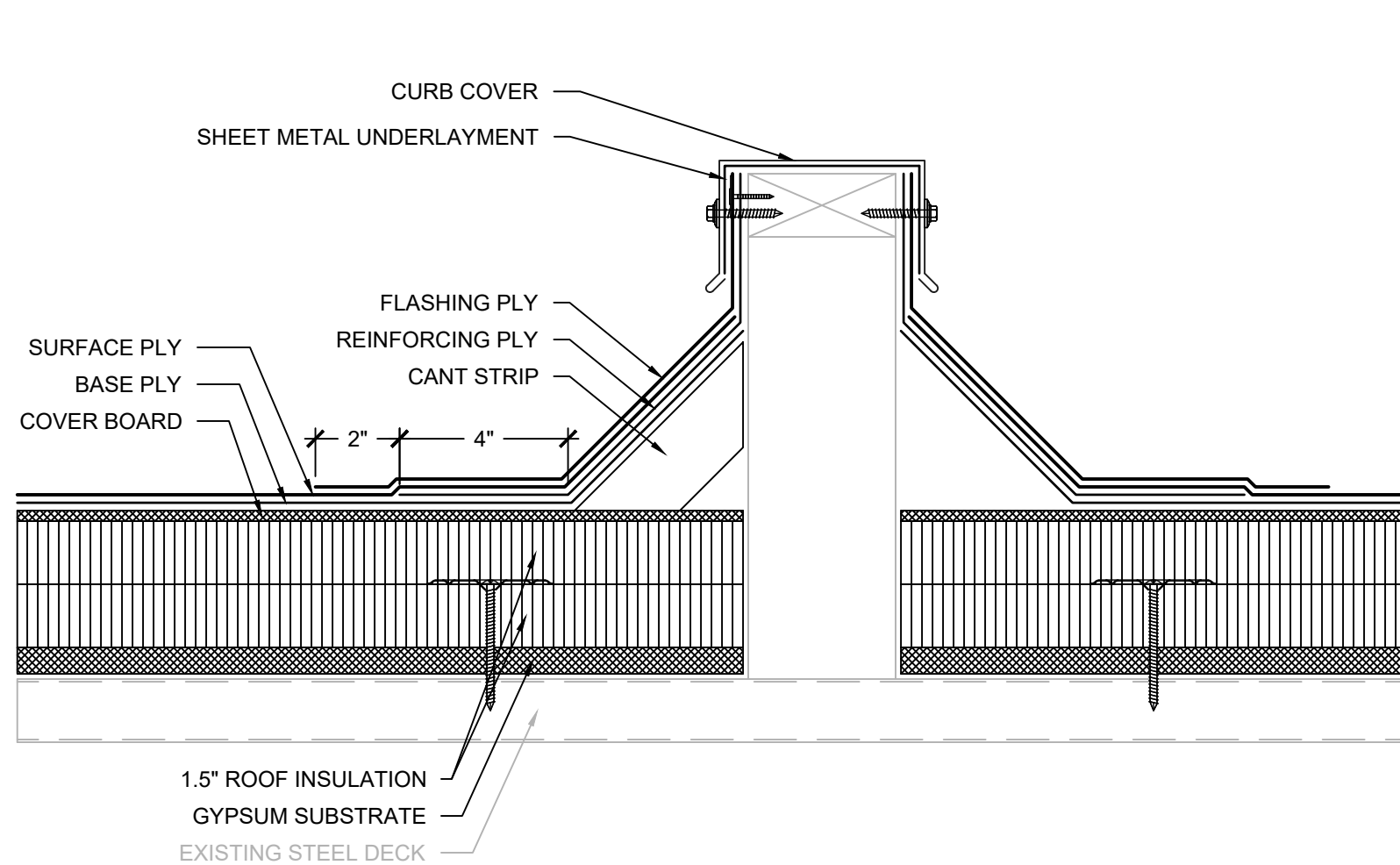
6 MECHANICAL CURB

SCALE: 3" = 1'-0"



7 HVAC UNIT

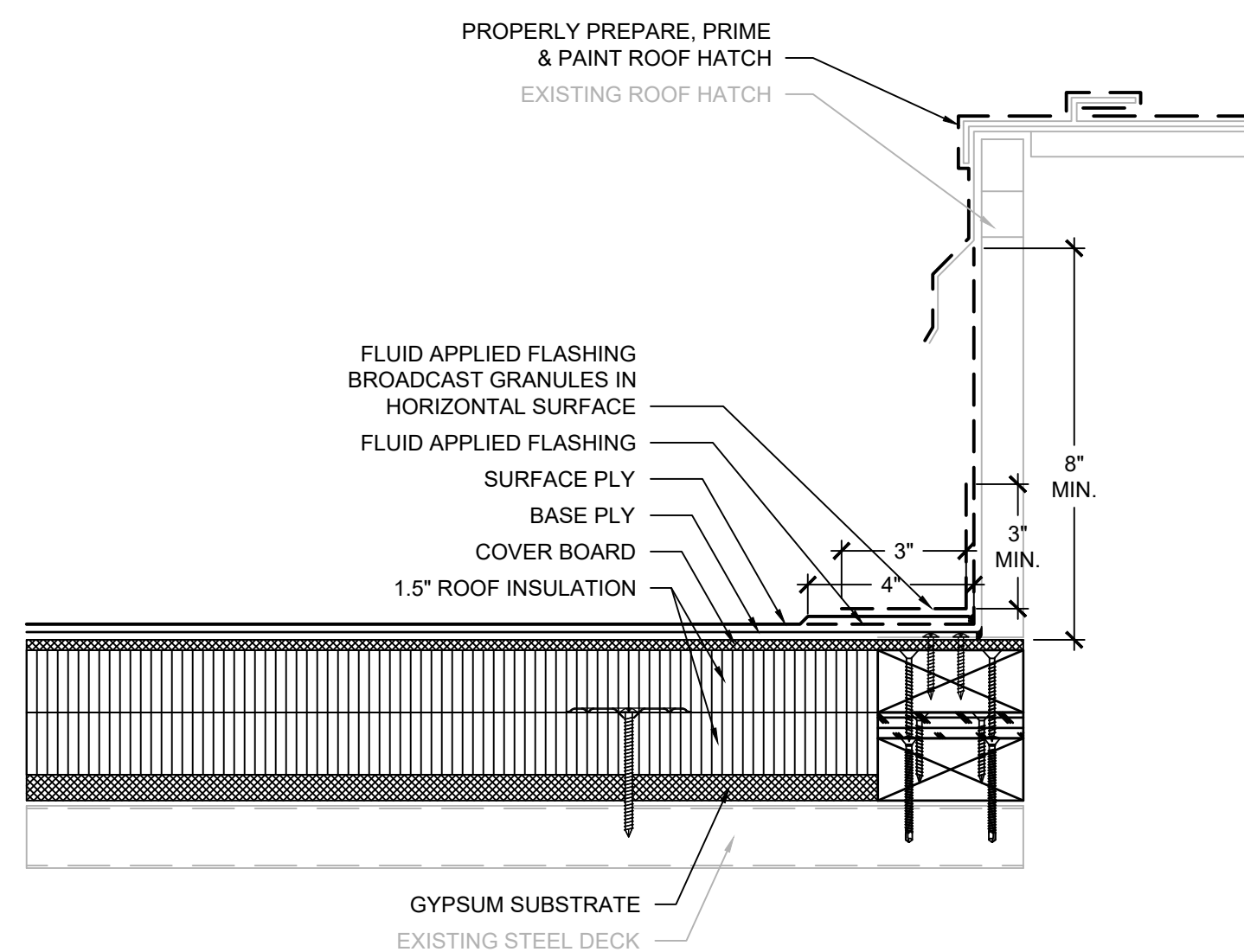
SCALE: 3" = 1'-0"



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1. PROPERLY DISCONNECT EQUIPMENT 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.
 2. PROVIDE MECHANICALLY ATTACHED BASE SHEET OVER COMBUSTIBLE OR NAILABLE SUBSTRATES PRIOR TO ADHERING BASE FLASHINGS.
 3. PROVIDE RUBBER PROTECTION PAD ADHERED TO TOP OF CURB COVER WHERE EQUIPMENT BEARS ON EQUIPMENT SUPPORT CURB.
 4. DO NOT SECURE EQUIPMENT THROUGH TOP OF CURB. UTILIZE SUPPORT BRACKET SECURED TO SIDE OF CURB.

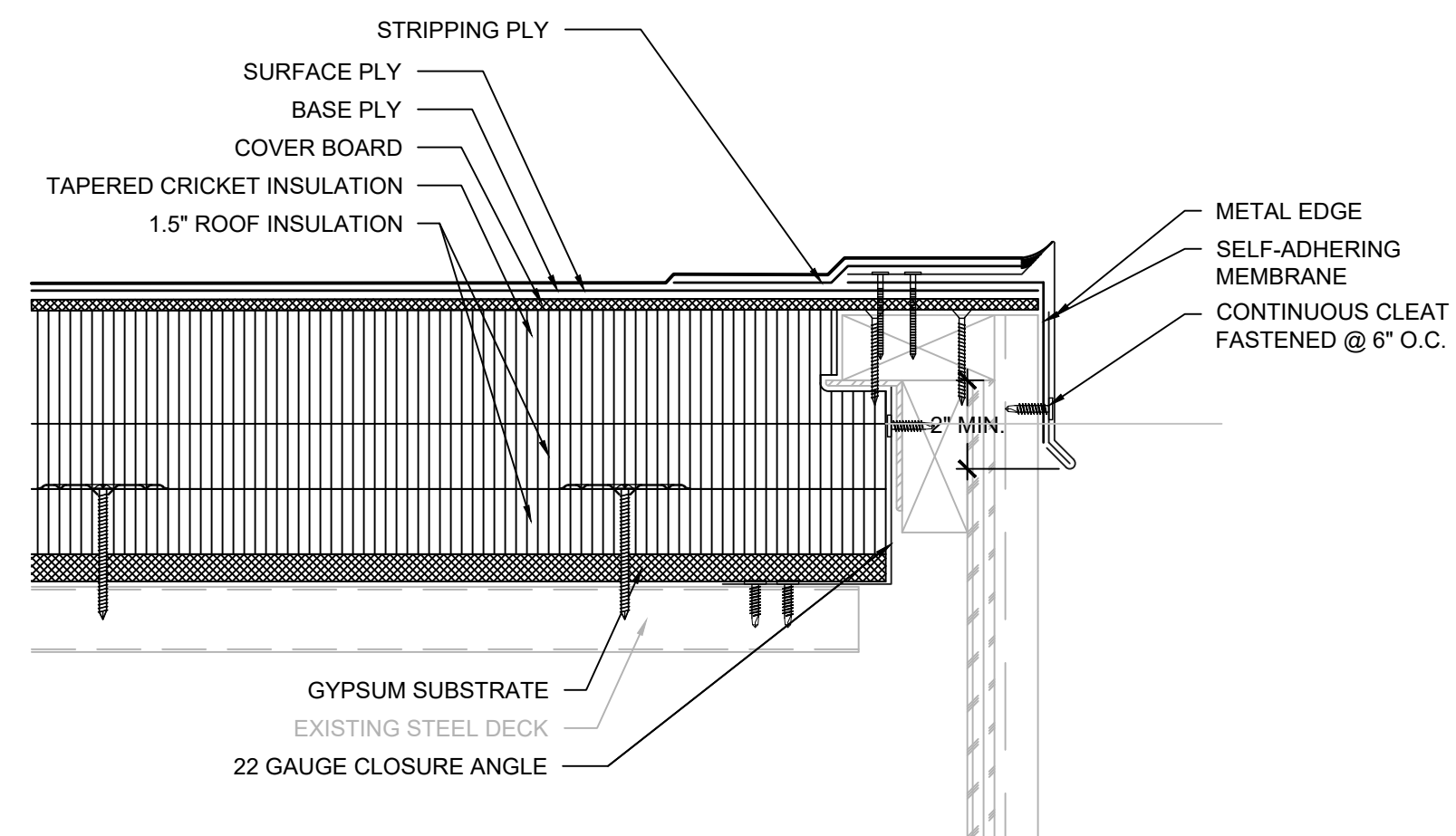
8 EQUIPMENT SUPPORT CURB

SCALE: 3" = 1'-0"



9 ROOF HATCH

SCALE: 3" = 1'-0"



- 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.
 4. PROVIDE ADDITIONAL WOOD NAILERS WHERE REQUIRED TO PROVIDE FLUSH TRANSITION WITH MAXIMUM HEIGHT OF INSULATION. WOOD NAILERS SHALL BE PROVIDED TO MAINTAIN CONSTANT PERIMETER EDGE HEIGHT.
 5. PROVIDE TAPERED EDGE STRIP/CANT STRIP AS NECESSARY TO MAINTAIN SMOOTH TRANSITION FROM INSULATION TO WOOD NAILERS.

10 METAL EDGE - AREA A1

SCALE: 3" = 1'-0"



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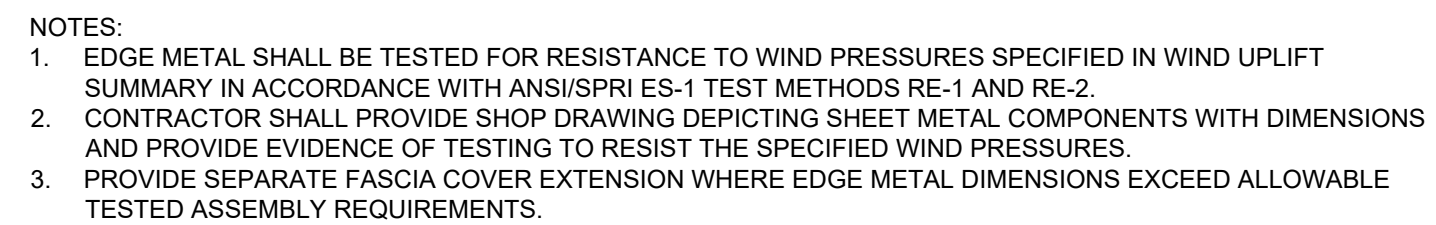
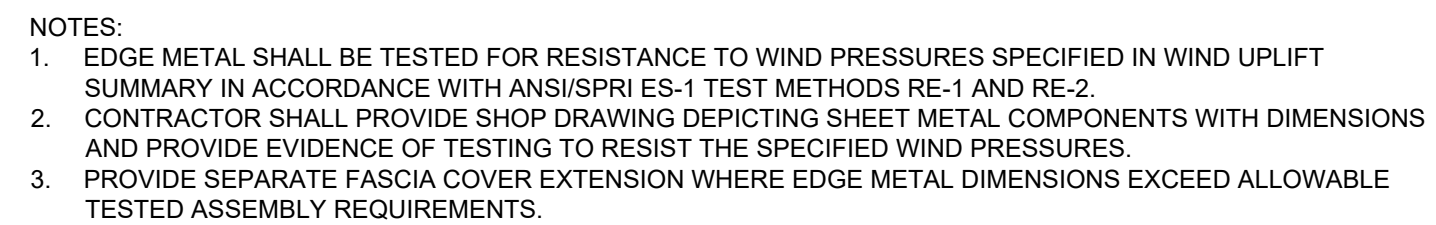
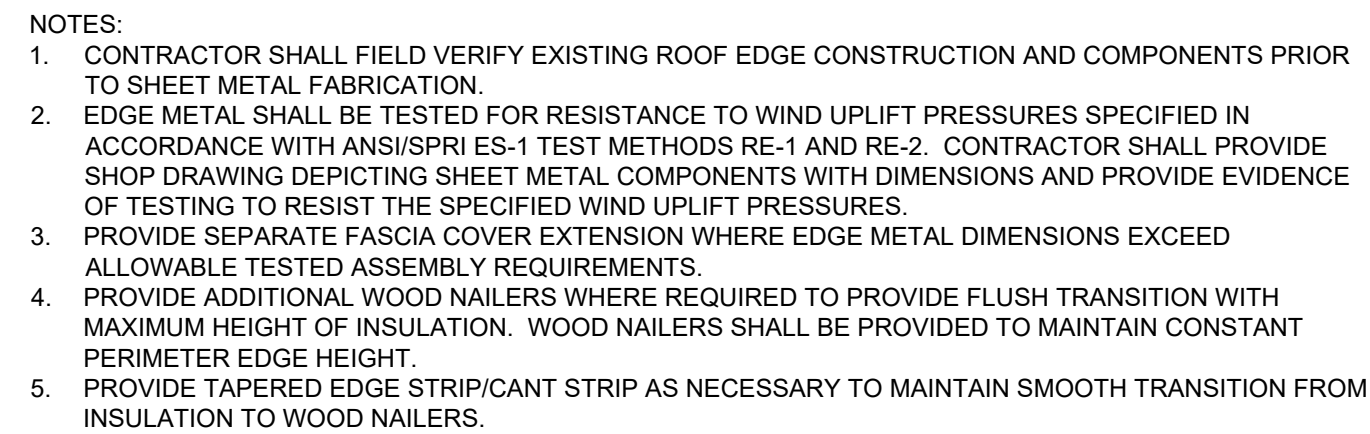
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SHEET TITLE:

DETAILS

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XR501



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