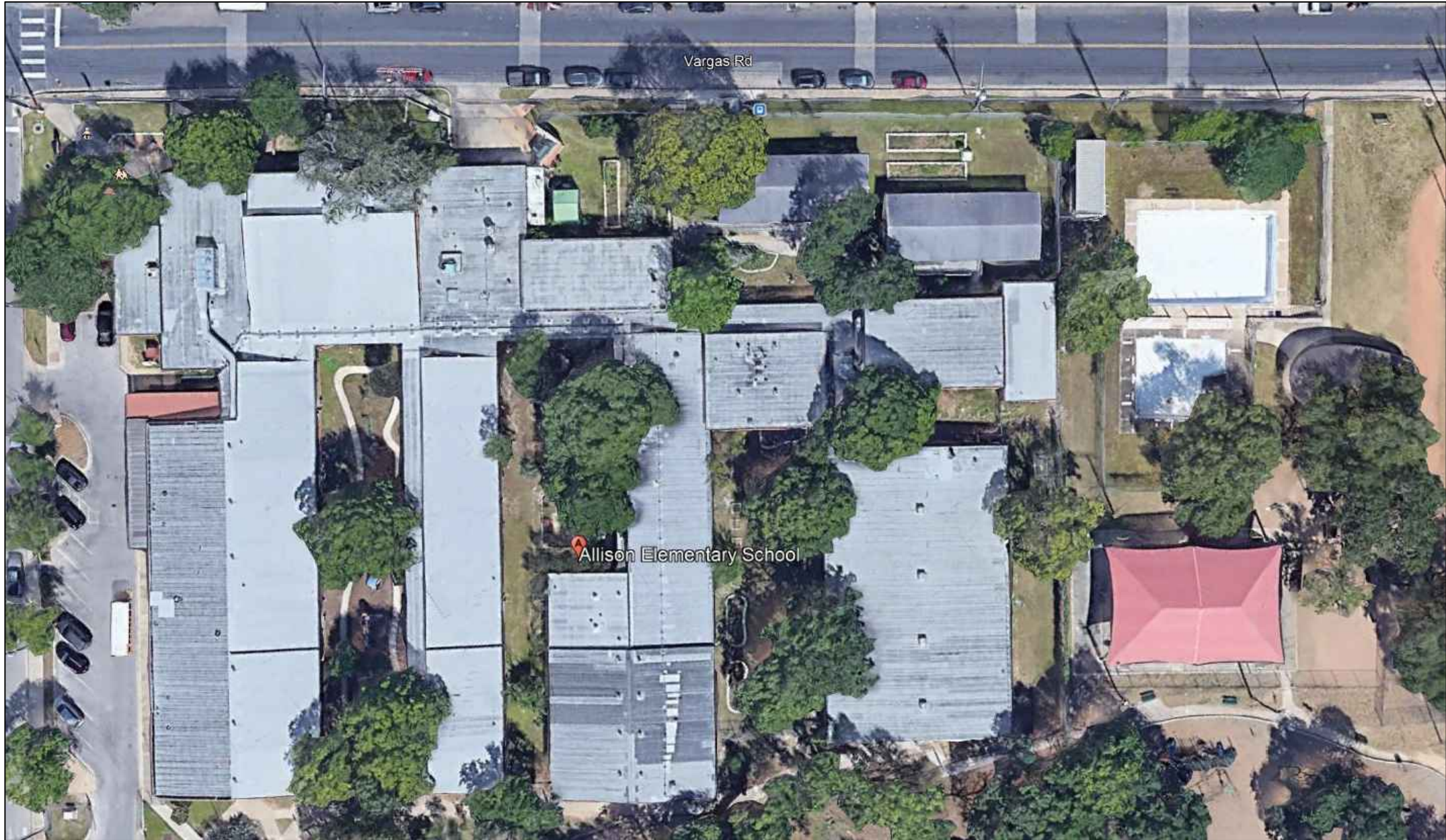


2020 ROOF IMPROVEMENTS
AISD PROJECT NO. 18-3302-ALLISON
ALLISON ELEMENTARY SCHOOL
AUSTIN, TEXAS



Source: Goggle Maps

VICINITY MAP
NOT TO SCALE



Source: Goggle Earth

AERIAL SITE PLAN
NOT TO SCALE



INDEX OF DRAWINGS			
R-0	COVER	R-3.1	ROOF DETAILS
R-1	GENERAL NOTES AND SCOPE OF WORK	R-3.2	ROOF DETAILS
R-2.0	OVERALL ROOF PLAN	R-3.3	ROOF DETAILS
R-2.1	PARTIAL ROOF PLAN - SW ROOF AREAS	R-4.0	ROOF DETAILS
R-3.0	ROOF DETAILS	R-4.1	ROOF DETAILS

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02/07/2020

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R-0

GENERAL NOTES

1. THESE GENERAL NOTES SHALL APPLY UNLESS OTHERWISE SPECIFICALLY NOTED ON PLANS AND DETAILS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHALL COORDINATE ALL PLANS AND DETAILS WITH ACTUAL FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT AND BEFORE STARTING WORK. CONSULTANT SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. FABRICATION, CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE APPLICABLE BUILDING OR PLUMBING CODE, OR OTHER LOCAL APPLICABLE CODE, WHICHEVER IS THE MORE STRINGENT.
2. WORK COVERED IN THESE PLANS INCLUDES ALL PIECES, PARTS, FEATURES, COMPONENTS, AND TECHNIQUES FOR A COMPLETE ASSEMBLY NORMALLY ASSOCIATED WITH WORK OF THE TYPE BEING CONSTRUCTED, WHETHER OR NOT ALL SUCH PIECES, PARTS AND COMPONENTS ARE SHOWN ON THE PLANS AND DETAILS.
3. ALL CONSTRUCTION OF ANY TYPE, INCLUDING FASTENING OR ATTACHMENT OF WOOD BLOCKING, NAILERS, STEEL ANGLES, DECKING, AND SHEET METAL, SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS FOR THE LATEST EDITION OF FACTORY MUTUAL BULLETIN 1-49, OR THE TEXAS WINDSTORM ACT IN LOCALES WHERE APPLICABLE.
4. ALL WOOD BLOCKING AND LUMBER SHALL BE KILN-DRIED AFTER TREATMENT (KDAT). ALL LUMBER AND WOOD BLOCKING SHALL BE FASTENED WITH SCREWS ONLY, NO NAILS. ALL JOINTS SHALL BE STAGGERED FROM CONTIGUOUS PIECES. PARAPETS OR OTHER WALLS RECEIVING COPING OR FASCIAS SHALL HAVE A 1/2" PER FOOT MINIMUM BEVELED OR SLOPED KDAT WOOD SURFACE AT THE TOP TO DRAIN PROPERLY. DRAINAGE SHALL BE TOWARD THE ROOF SIDE OF THE BUILDING, NOT THE EXTERIOR WALL.
5. ALL FASTENERS PENETRATING TREATED LUMBER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED UNLESS OTHERWISE STIPULATED HEREIN.
6. ALL PLYWOOD SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE WRITTEN SPECIFICATIONS OF THE AMERICAN PLYWOOD ASSOCIATION (APA).
7. ALL BASE SHEET OR INSULATION FASTENING PATTERNS SHALL COMPLY WITH THE SPECIFIED ROOF UPLIFT PRESSURES TO COMPLY WITH THE CURRENT APPLICABLE BUILDING CODE.
8. ALL SHEET METAL WORK SHALL COMPLY WITH SMACNA, WHETHER SHOWN ON THE PLANS AND DETAILS OR NOT.
9. ALL SHEET METAL EDGING, GRAVEL GUARD, FASCIA, AND COPING SHALL HAVE CONTINUOUS CLEATS FASTENED AT 8" O.C. ONE GAUGE HEAVIER THAN THE MATERIAL BEING ATTACHED. A SEPARATOR SHEET SHALL SEPARATE SHEET METAL FROM TREATED LUMBER. FASCIA AND COPING SHALL HAVE A SECONDARY WATERPROOFING MEMBRANE BENEATH THE METAL COVERING THE FULL COPING OR FASCIA SPAN. CLIP JOINTS SHALL BE STAGGERED FROM ATTACHED COMPONENTS. ALL METAL EDGING, GRAVEL GUARD, OR FASCIA SHALL HAVE BACK-UP AND COVER PLATES. ALL PARAPET CAPS, COPING AND EXPANSION JOINTS SHALL HAVE A DOUBLE-LOCKED MINIMUM 1" TALL STANDING SEAM AT JOINTS UNLESS OTHERWISE STIPULATED ELSEWHERE. EXPOSED SHEET MEAL EDGES SHALL BE HEMMED.
10. ALL SHEET METAL COMPONENT CORNERS, INTERSECTIONS, AND TERMINATIONS SHALL HAVE EACH LEG EXTENDING AT LEAST 18" IN EITHER DIRECTION, AND SHALL BE MADE AS A SINGLE UNIT PIECE. JOINTS SHALL BE SOLDERED EXCEPT IN THE CASE OF PREFINISHED METAL.
11. ALL GUTTERS SHALL HAVE A MINIMUM OF 1/8" PER FOOT SLOPE FOR DRAINAGE. GUTTER EXPANSION JOINTS SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED 50 FEET. GUTTERS SHALL HAVE SPACERS CONSTRUCTED OF 1/8" x 1" GALVANIZED STEEL AT 3'-0" O.C. GUTTERS SHALL HAVE EXTERNAL BRACKETS MADE OF 1/8" x 1" GALVANIZED STEEL AT 8'-0" O.C., AND SUCH BRACKETS SHALL BE FIELD PRIMED AND PAINTED TO MATCH THE SHEET METAL.
12. NO SCUPPERS, DOWNSPOUTS, OVERFLOW DRAIN OUTLETS, OR OTHER WATER DISCHARGE POINTS SHALL BE PERMITTED OVER DOORS, WINDOWS, SIDEWALKS, OR OTHER LOCATIONS INCONVENIENT TO PERSONS USING THE BUILDING OR WHERE SUCH DISCHARGE POINTS MAY CAUSE A SLIPPING HAZARD IN ICY CONDITIONS. WHERE CONFLICTS IN BID OR CONSTRUCTION DOCUMENTS CONTRADICT THIS PROVISION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE THE DISCHARGE TO A POINT SATISFACTORY TO THE ENGINEER.
13. ALL GUTTERS SHALL HAVE DOWNSPOUTS OF SIZE SPECIFIED AT INTERVALS NOT TO EXCEED 40 FEET. ALL INDIVIDUAL GUTTER SECTIONS SHALL HAVE AT LEAST ONE DOWNSPOUT. WHERE CORNERS ARE PRESENT DOWNSPOUTS SHALL BE LOCATED SO THAT WATER WILL NOT HAVE TO FLOW AROUND CORNERS. ALL DOWNSPOUTS SHALL HAVE AT LEAST TWO STRAPS. UNLESS OTHERWISE STIPULATED ELSEWHERE, ALL DOWNSPOUTS EXTENDING TO THE GROUND SHALL HAVE A MINIMUM 36" CAST IRON DOWNSPOUT BOOT AND DISCHARGE ONTO A CONCRETE SPLASH BLOCK.
14. CRICKETS WITH A MINIMUM FINISHED SLOPE OF 1/4" PER FOOT SHALL BE INSTALLED BETWEEN ALL DRAINS, AT WALLS THAT BLOCK DRAINAGE, AT CURBS WIDER THAN 24", AND WHERE NECESSARY FOR PROPER DRAINAGE, WHETHER SHOWN ON THE PLANS AND DETAILS OR NOT.
15. ALL ROOF DRAINS SHALL HAVE SQUARE TAPERED INSULATION SUMPS EXTENDING A MINIMUM OF TWO FEET IN EACH DIRECTION FROM THE DRAIN BODY. MINIMUM INSULATION THICKNESS AT DRAINS IS 1-1/2".
16. ALL ROOF COMPONENTS SHALL BE PROTECTED BY ALL NECESSARY MEANS FROM DAMAGE OR CONTAMINATION BY OTHER TRADES.
17. ALL ROOFTOP EQUIPMENT MOUNTINGS AND FLASHINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AND SHALL HAVE VERTICAL AND HORIZONTAL CLEARANCES AS DETAILED BY THE NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) ROOFING AND WATERPROOFING MANUAL, UNLESS OTHERWISE STIPULATED IN THE PLANS AND DETAILS. ALL EQUIPMENT CURBS SHALL EXTEND A MINIMUM OF 12" ABOVE THE PLANE OF THE FINISHED ROOF.
18. ROOFTOP EQUIPMENT CANNOT BE ITS OWN COUNTERFLASHING. ALL MECHANICAL EQUIPMENT CURBS MUST HAVE A TWO-PIECE REMOVABLE COUNTERFLASHING AND RECEIVER IN ADDITION TO THE MECHANICAL EQUIPMENT FLANGE.
19. ALL METAL FLASHINGS AND SCUPPERS SHALL BE SUPPORTED BY WOOD BLOCKING THE SAME THICKNESS AS THE INSULATION, IF ANY. WOOD BLOCKING SHALL EXTEND A MINIMUM OF 1-1/2" PAST THE METAL FLANGE OF THE FLASHING.
20. PITCH PANS, CHEM CURBS, AND SEALANT POCKETS OR SIMILAR ARE PROHIBITED.
21. ALL SHEET METAL RECEIVING ELASTOMERIC SEALANT SHALL BE PRIMED WHETHER REQUIRED BY THE MANUFACTURER OR NOT. SEALANT COLORS SHALL MATCH THE MATERIAL BEING SEALED.
22. WALKWAY PROTECTION MATERIAL SHALL BE INSTALLED AROUND THE FULL PERIMETER OF ALL POWERED OR MOTORIZED EQUIPMENT, AT SATELLITE RECEIVERS, AND AT ALL ROOFTOP ACCESS DOORWAYS, LADDERS, OR OTHER ACCESS OR HIGH TRAFFIC POINTS OF ANY TYPE WHETHER SHOWN ON THE PLANS OR NOT.

GENERAL NOTES FOR MECHANICAL ROOF PENETRATIONS:

1. THESE GENERAL NOTES APPLY TO ALL MECHANICAL, ELECTRICAL, OR PLUMBING (MP) PENETRATIONS AND ROOF MOUNTED ACCESSORIES OR EQUIPMENT.
2. ALL MECHANICAL EQUIPMENT OR ACCESSORY CURBS SHALL PROVIDE A MINIMUM CLEARANCE OF 12 INCHES ABOVE THE PLANE OF THE FINISHED ROOF FOR INSTALLATION OF BASE FLASHING AND COUNTERFLASHING.
3. PROVIDE A MINIMUM 1" CLEARANCE ON ALL SIDES OF MECHANICAL EQUIPMENT CURBS TO ALLOW INSTALLATION OF BASE FLASHING AND COUNTERFLASHING. 1" DIMENSION IS FROM THE OUTSIDE DIMENSION OF THE CURB TO THE INSIDE DIMENSION OF THE MECHANICAL EQUIPMENT FLANGE.
4. EQUIPMENT OR OTHER ROOFTOP ACCESSORIES SHALL NOT BE SET IN PLACE UNTIL ALL BASE FLASHING AND COUNTERFLASHING ARE SET IN PLACE AND ROOF CONSULTANT HAS OBSERVED FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
5. WHEREVER CONSTRUCTION DOCUMENTS CALL FOR REPLACEMENT, EXTENSION, OR RAISING MECHANICAL EQUIPMENT CURBS, SUCH A REQUIREMENT ALSO INCLUDES EXTENDING OR REPLACING ALL INTERNAL DUCTS, LOUVERS, DAMPERS, ELECTRIC, REFRIGERATION AND PLUMBING IN SUCH A MANNER AS TO PROVIDE A COMPLETE OPERATIONAL ASSEMBLY.
6. PROVIDE WOOD CURBED SHEET METAL ENCLOSURE WITH FLASHING AND REMOVABLE COUNTERFLASHING WHEREVER A PIPE OR CONDUIT PENETRATES THE ROOF. ALL PIPE OR CONDUIT WILL HAVE A 95 DEGREE RIGHT ANGLE BEND FROM THE OPENING TO CAUSE WATER TO DRAIN AWAY FROM THE OPENING. CONDUIT AND PIPING SHALL HAVE A DRIP LOOP UNLESS SUCH INTERFERES WITH THE NORMAL FUNCTION OF THE LINE. FILL THE DECK OPENING WITH NON-FLAMMABLE FIRE RATED SPRAY FOAM.
7. PROVIDE A MINIMUM 18" CLEARANCE BETWEEN ALL PIPES, CONDUITS, OR OTHER ROOF PENETRATIONS AND ANY OTHER PENETRATION, WALL, OR CURB.
8. SUPPORT ALL ROOF MOUNTED PIPES OR CONDUITS WITH PORTABLE PIPE HANGERS OR APPROVED EQUIVALENT. SET ON PADS MADE OF COMPATIBLE APPROVED ROOFING MATERIAL. SPACE PIPE HANGERS A MAXIMUM OF 10 FEET O.C., OR AS SPECIFIED BY THE MANUFACTURER, OR LOCAL CODE ENFORCING AUTHORITY APPLICABLE TO THE PROJECT. WOOD OR PLASTIC BLOCKING IS NOT ACCEPTABLE. PIPES AND CONDUIT SHALL BE CLUSTERED IN SUCH A MANNER AS TO MINIMIZE THE NUMBER OF PIPE SUPPORTS.

EXISTING ROOF ASSEMBLIES						
ROOF AREA ID	ROOF AREA (S)	ROOF DECK	SLOPE	INSULATION LAYER 1	INSULATION LAYER 2	MEMBRANE
A-01	3,514	STEEL	0	1/2" PERLITE	3" POLYISOCYANURATE (ISO)	2-PLY MB
A-04	926	STEEL	0	1-1/2" PERLITE	1.5" ISO	2-PLY MB
A-07	6,703	STEEL	2:12	1" PERLITE	NONE	2-PLY MB
A-11	1,954	LWIF	0	NONE	NONE	2-PLY MB
A-13	4,001	LWIF	2:12	NONE	NONE	2-PLY MB
A-15/A-16	4,528	STEEL	2:12	1" PERLITE	NONE	2-PLY MB
A-17	2,022	LWIF	1/4"/FT	2" PERLITE	2" ISO	2-PLY MB
A-18	2,340	LWIF	0	2" PERLITE	2" ISO	2-PLY MB
A-20/A-21	10,062	LWIF	2:12	NONE	NONE	2-PLY MB
KITCHEN	2,910	LWIF	0	1" PERLITE	1" PERLITE	2-PLY MB
CORRIDOR	2,600	LWIF	0	1" PERLITE	2" PERLITE	2-PLY MB

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R-1

PLAN NOTE 1

TYPICAL ROOF PENETRATIONS ARE SHOWN AS REFERENCED IN THE DRAWINGS BY SECTION CUTS. IT IS INTENDED THAT CONDITIONS SIMILAR TO THOSE SHOWN IN DETAIL ARE TO BE TREATED IN A SIMILAR MANNER.

PLAN NOTE 2

LOCATION AND QUANTITY OF ROOF OBJECTS, PENETRATIONS AND EQUIPMENT ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING QUANTITIES & LOCATIONS PRIOR TO BIDDING.

HATCH LEGEND

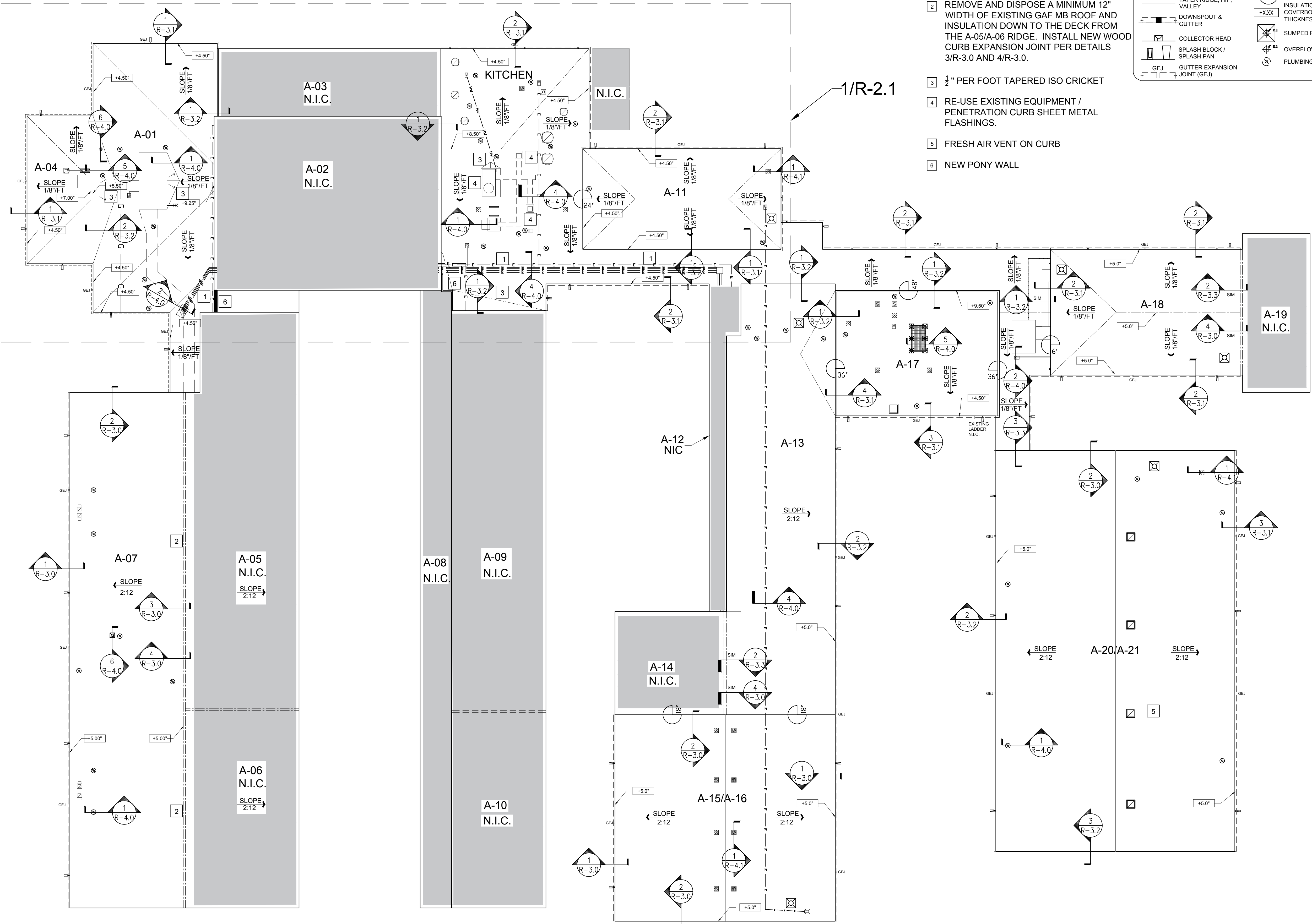
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KEYED NOTES:

- 1 REMOVE AND DISPOSE OF EXISTING CURB PIPE SUPPORTS. FURNISH AND INSTALL PORTABLE PIPE HANGER PIPE SUPPORTS (OR EQUIV).
- 2 REMOVE AND DISPOSE A MINIMUM 12" WIDTH OF EXISTING GAF MB ROOF AND INSULATION DOWN TO THE DECK FROM THE A-05/A-06 RIDGE. INSTALL NEW WOOD CURB EXPANSION JOINT PER DETAILS 3/R-3.0 AND 4/R-3.0.
- 3 1/2" PER FOOT TAPERED ISO CRICKET
- 4 RE-USE EXISTING EQUIPMENT / PENETRATION CURB SHEET METAL FLASHINGS.
- 5 FRESH AIR VENT ON CURB
- 6 NEW PONY WALL

ROOF PLAN LEGEND

A ROOF SECTION IDENTIFICATION	— E — ELECTRICAL CONDUIT	GRAV. EXH. VENT ON CURB
N.I.C. NOT IN CONTRACT	— CD — CONDENSATE DRAIN LINE	GOOSENECK ON CURB
— ROOF EDGE	— G — GAS LINE	TURBINE VENT ON CURB
--- WALLS BENEATH ROOF	— R — REFRIGERANT LINE	EXHAUST FAN ON CURB
--- EXPANSION JOINT/AREA DIVIDER	— X — LIGHTNING PROTECTION	FLUE EXHAUST ON CURB
--- TAPER RIDGE, HIP, VALLEY	DIRECTION OF SLOPE	ABANDONED PENETRATION
DOWNSPOUT & GUTTER	RISE-WALL	EQUIPMENT CURB
COLLECTOR HEAD	INSULATION AND COVERBOARD THICKNESS, INCHES	SKYLIGHT
SPLASH BLOCK / SPLASH PAN	SUMPED ROOF DRAIN	PIPE PENETRATION CURB
GUTTER EXPANSION JOINT (GEJ)	OVERFLOW DRAIN	SMOKE HATCH
	PLUMBING VENT	KEY NOTE



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

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R-2.0

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HATCH LEGEND

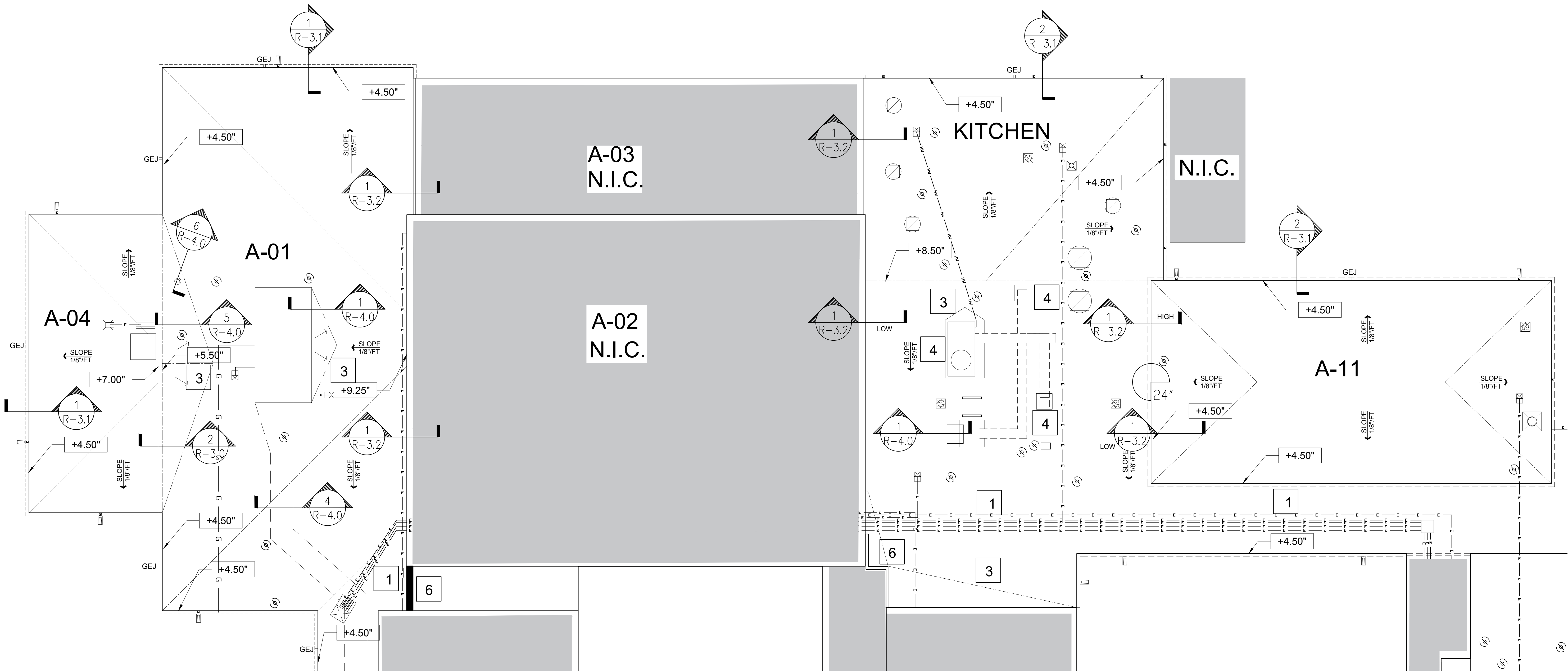
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- 3 1/2" PER FOOT TAPERED ISO CRICKET
- 4 RE-USE EXISTING EQUIPMENT / PENETRATION CURB SHEET METAL FLASHINGS.
- 5 FRESH AIR ON VENT ON CURB
- 6 NEW PONY WALL

ROOF PLAN LEGEND

(A) ROOF SECTION IDENTIFICATION	— E — ELECTRICAL CONDUIT	□ SQUARE TO ROUND STACK PENETRATION
(N.I.C.) NOT IN CONTRACT	— CD — CONDENSATE DRAIN LINE	□ GOOSENECK ON CURB
— ROOF EDGE	— G — GAS LINE	□ TURBINE VENT ON CURB
— WALLS BENEATH ROOF	— R — REFRIGERANT LINE	□ EXHAUST FAN ON CURB
— EXPANSION JOINT/AREA DIVIDER	— LIGHTNING PROTECTION	□ FLUE EXHAUST ON CURB
— TAPER RIDGE, HIP, VALLEY	SLOPE DIRECTION OF SLOPE	□ ABANDONED PENETRATION
— DOWNSPOUT & GUTTER	RISE-WALL	□ EQUIPMENT CURB
— COLLECTOR HEAD	+XXX INSULATION AND COVERBOARD THICKNESS, INCHES	□ SKYLIGHT
— SPLASH BLOCK / SPLASH PAN	□ SUMPED ROOF DRAIN	□ PIPE PENETRATION CURB
— GEJ GUTTER EXPANSION JOINT (GEJ)	□ OVERFLOW DRAIN	□ SMOKE HATCH
	□ PLUMBING VENT	1 KEY NOTE



1 PARTIAL ROOF PLAN - SW ROOF AREAS

SCALE: 1/8" = 1'-0"



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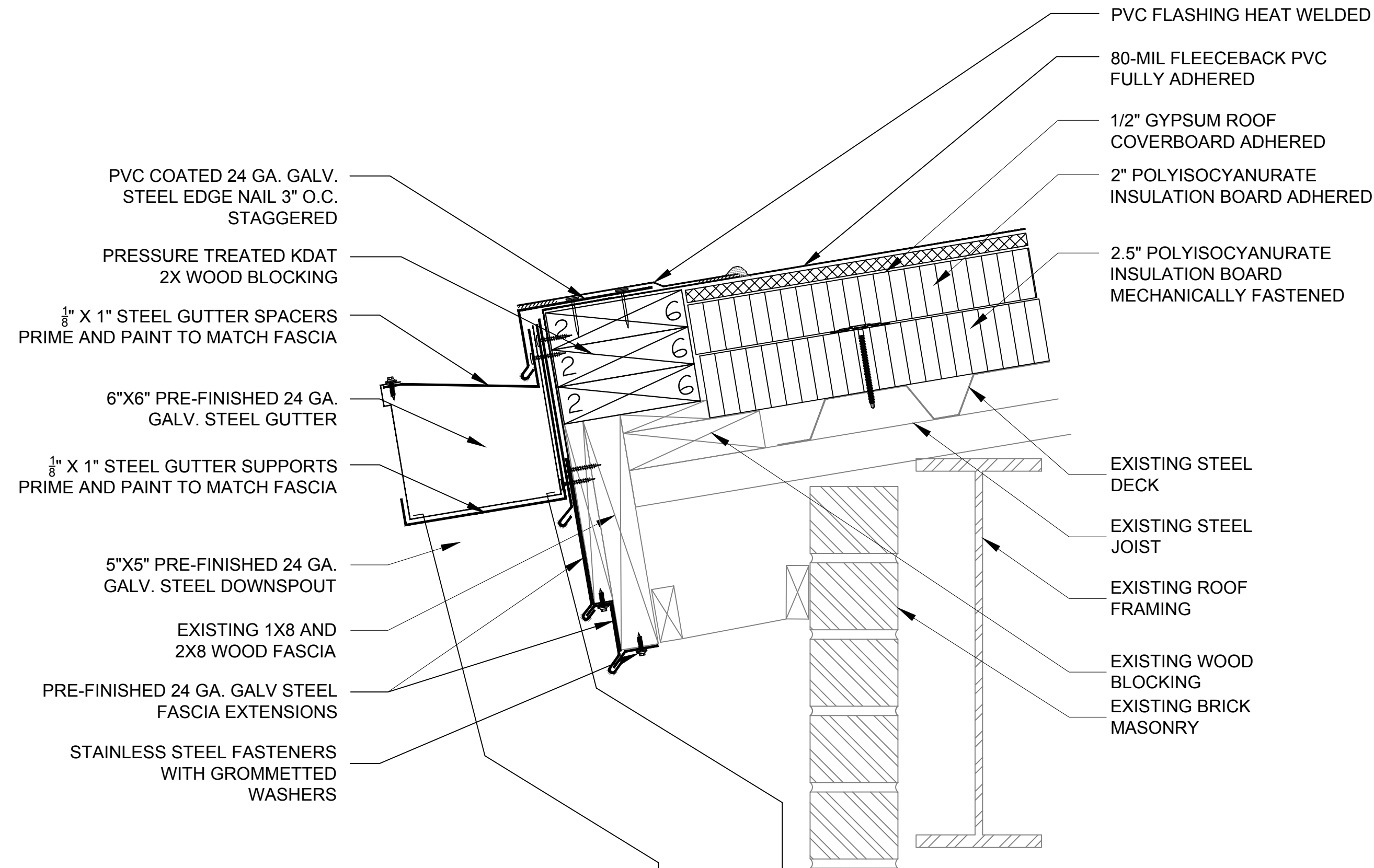
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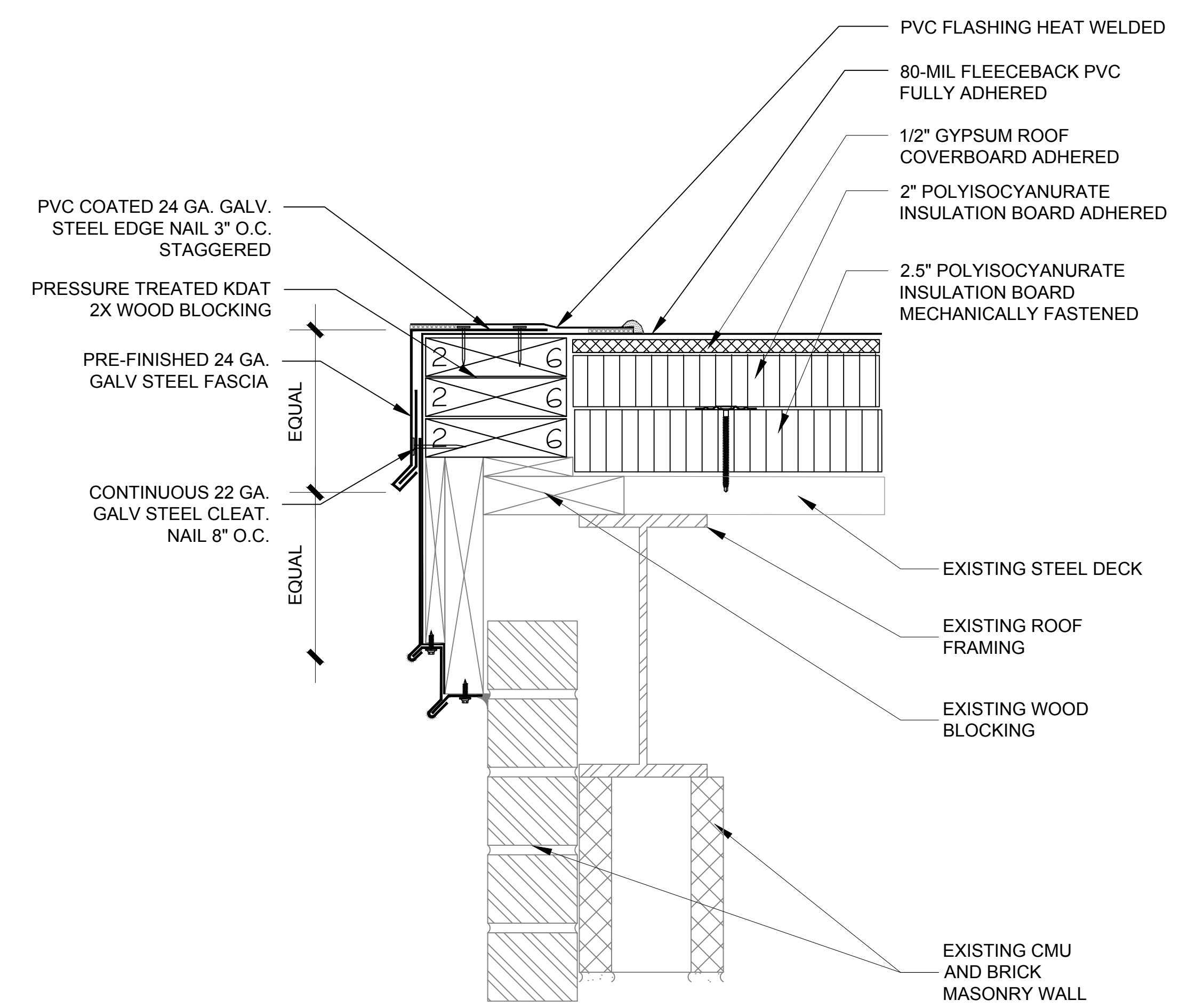
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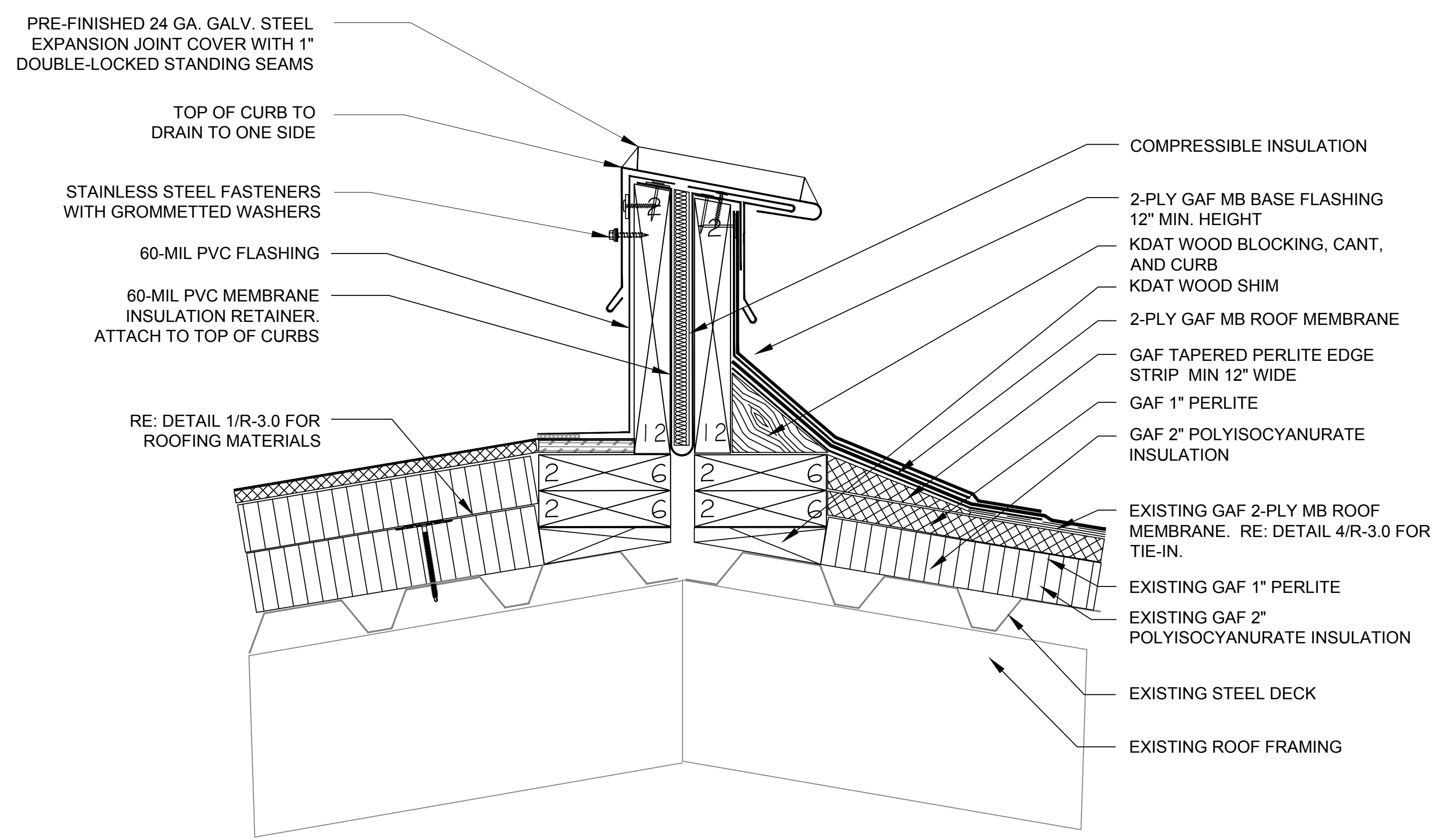
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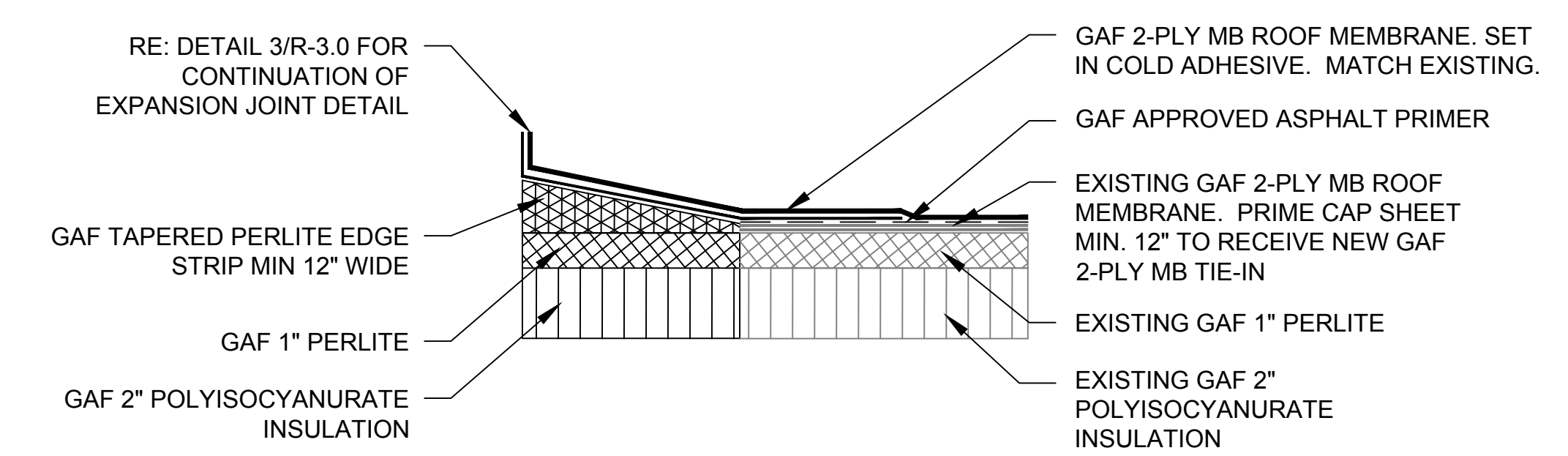
1 GUTTER/FASCIA @ 2:12 STEEL DECKS
SCALE: 3"=1'-0"



2 RAKE EDGE FASCIA @ 2:12 STEEL DECK
SCALE: 3"=1'-0"



3 EXPANSION JOINT @ A-7 AND A-5/A-6
SCALE: 3"=1'-0"



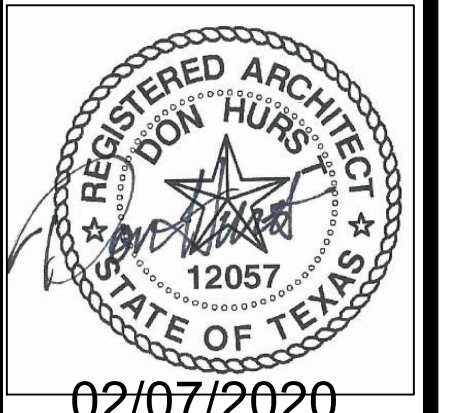
4 A-7 EJ MB TIE-IN @ EXISTING A-5/A-6 MB
SCALE: 3"=1'-0"

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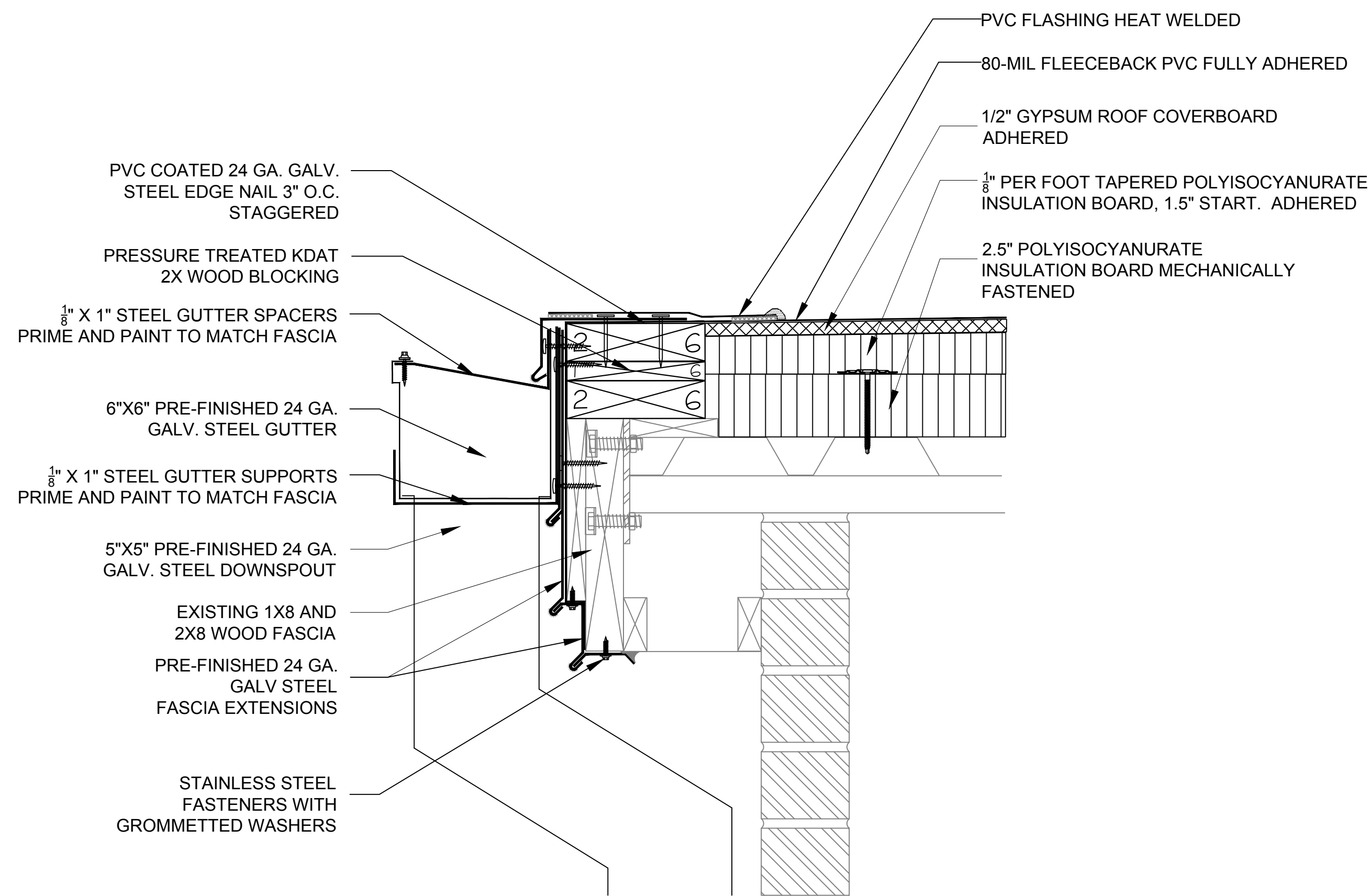
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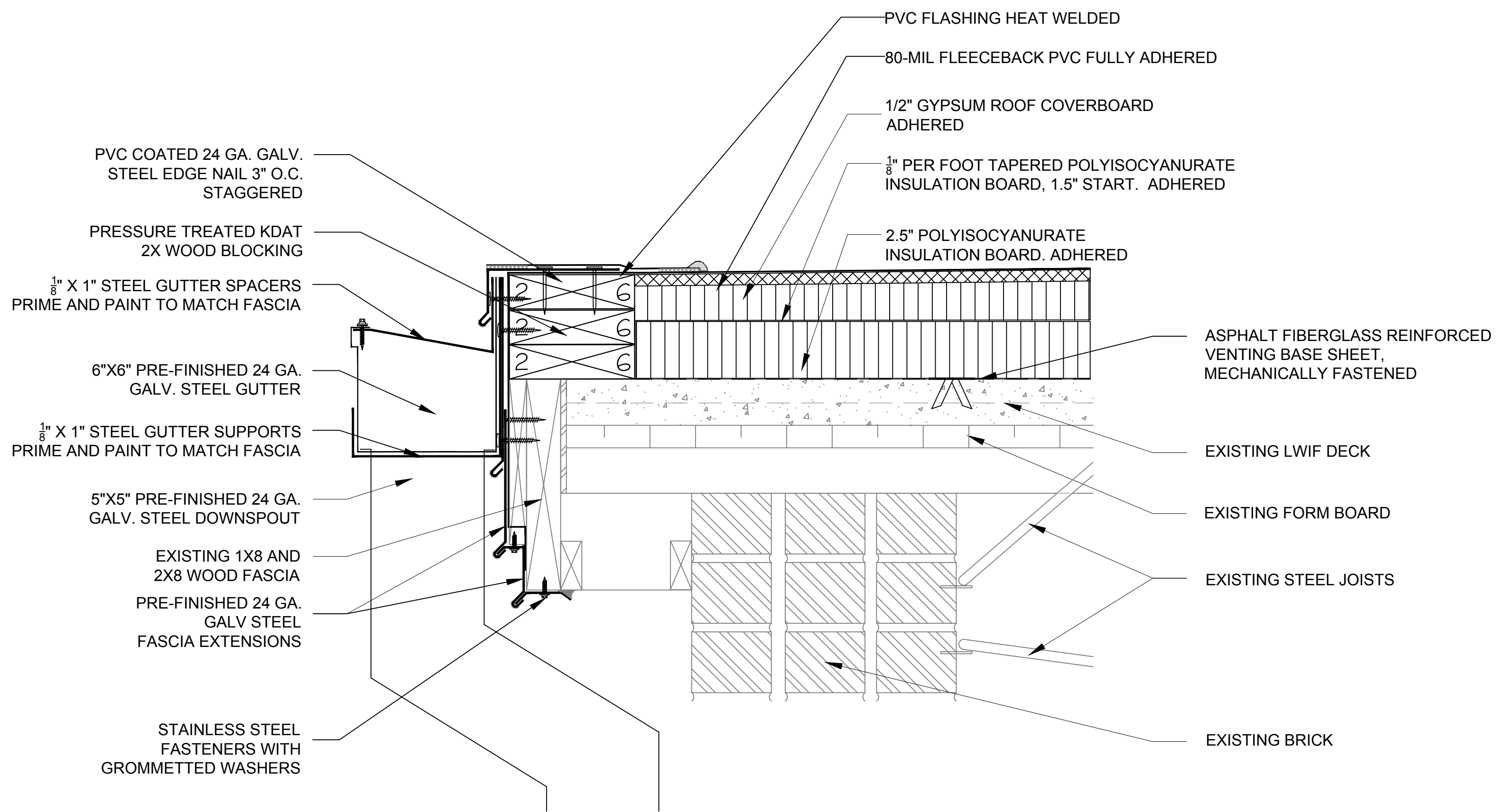


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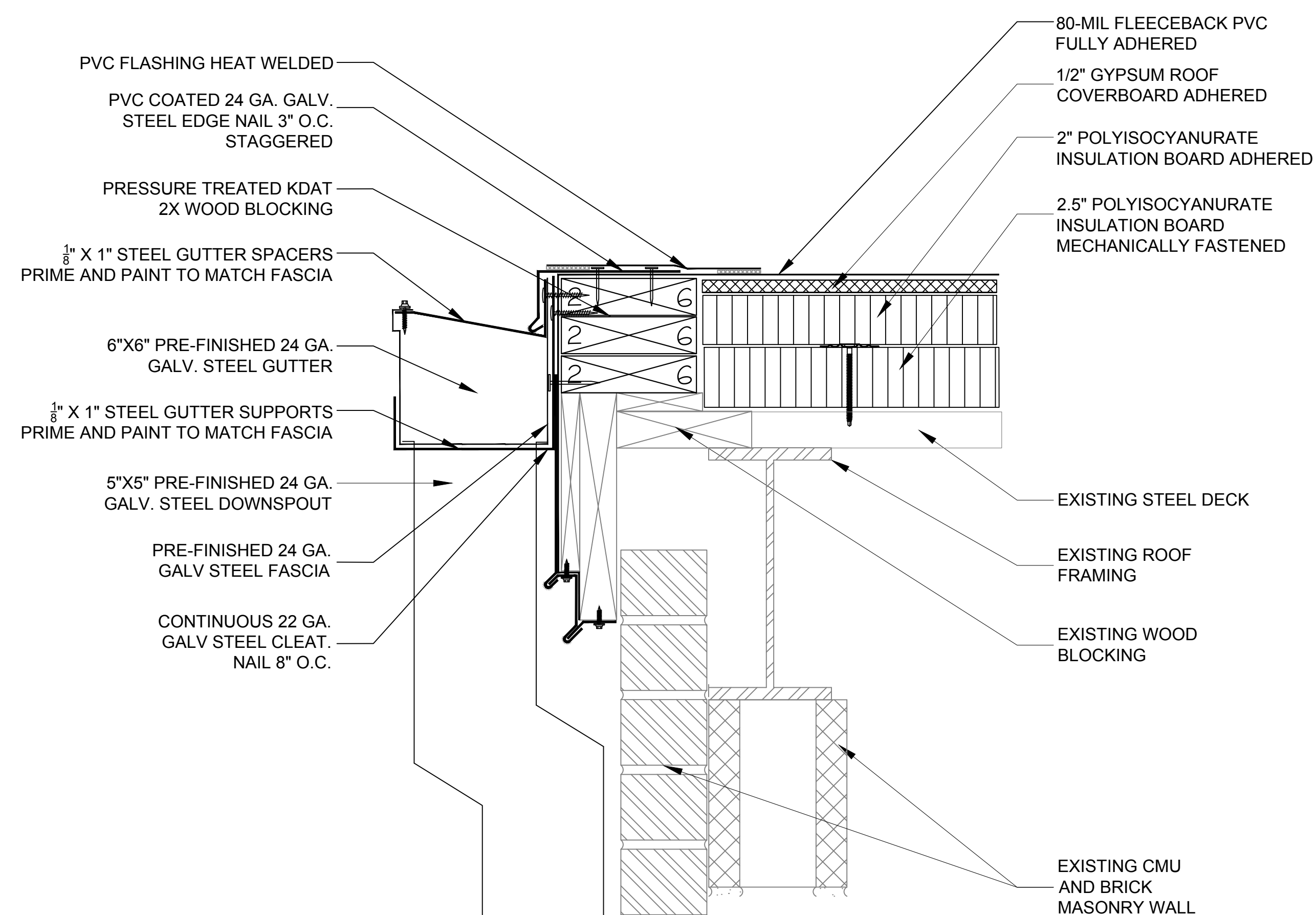
R-3.0



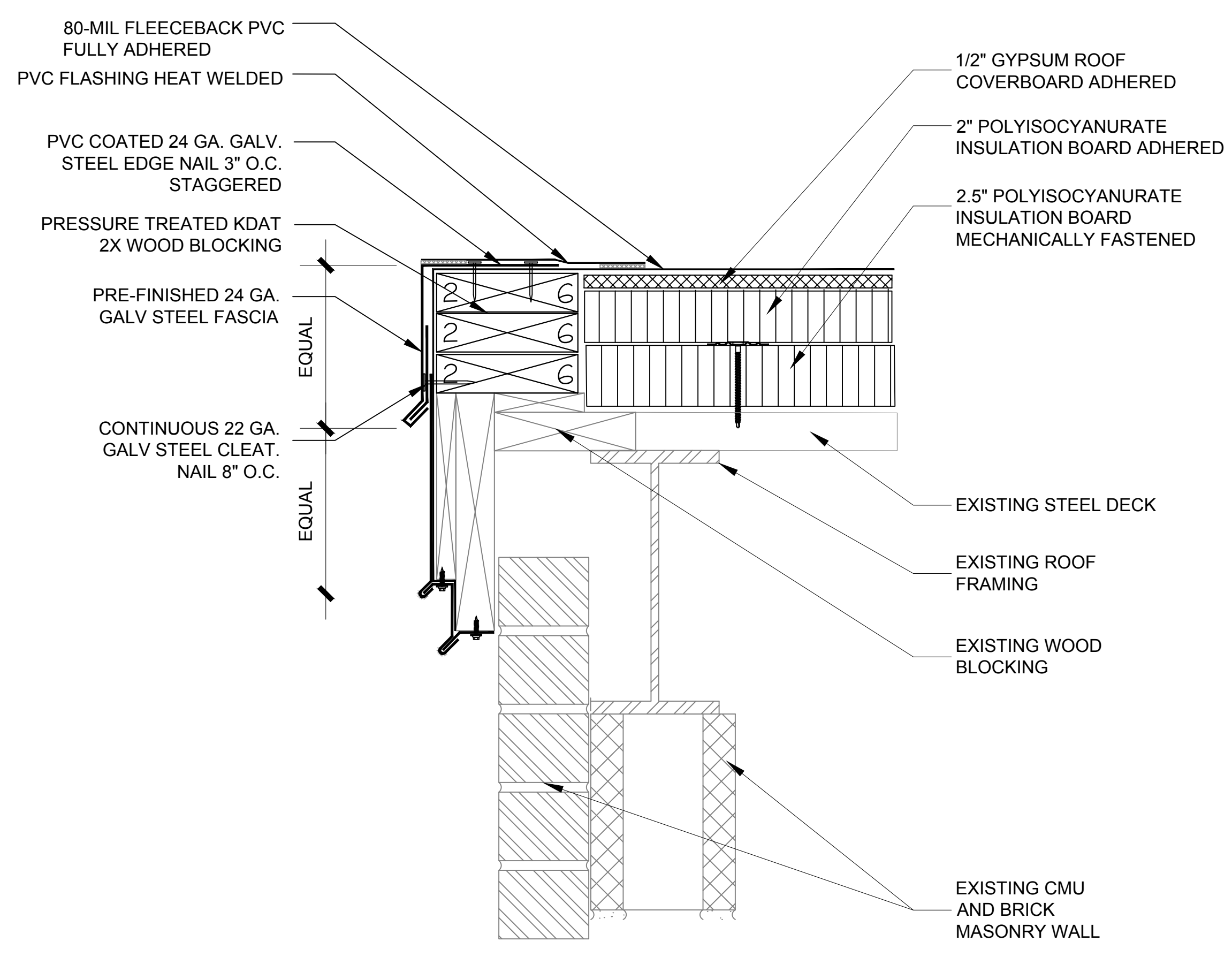
1 TYPICAL FASCIA/GUTTER (STEEL DECK)
SCALE: 3"=1'-0"



2 TYPICAL FASCIA/GUTTER (LWIF DECK)
SCALE: 3"=1'-0"



3 TYPICAL FASCIA/GUTTER
SCALE: 3"=1'-0"



4 RAKE EDGE FASCIA
SCALE: 3"=1'-0"

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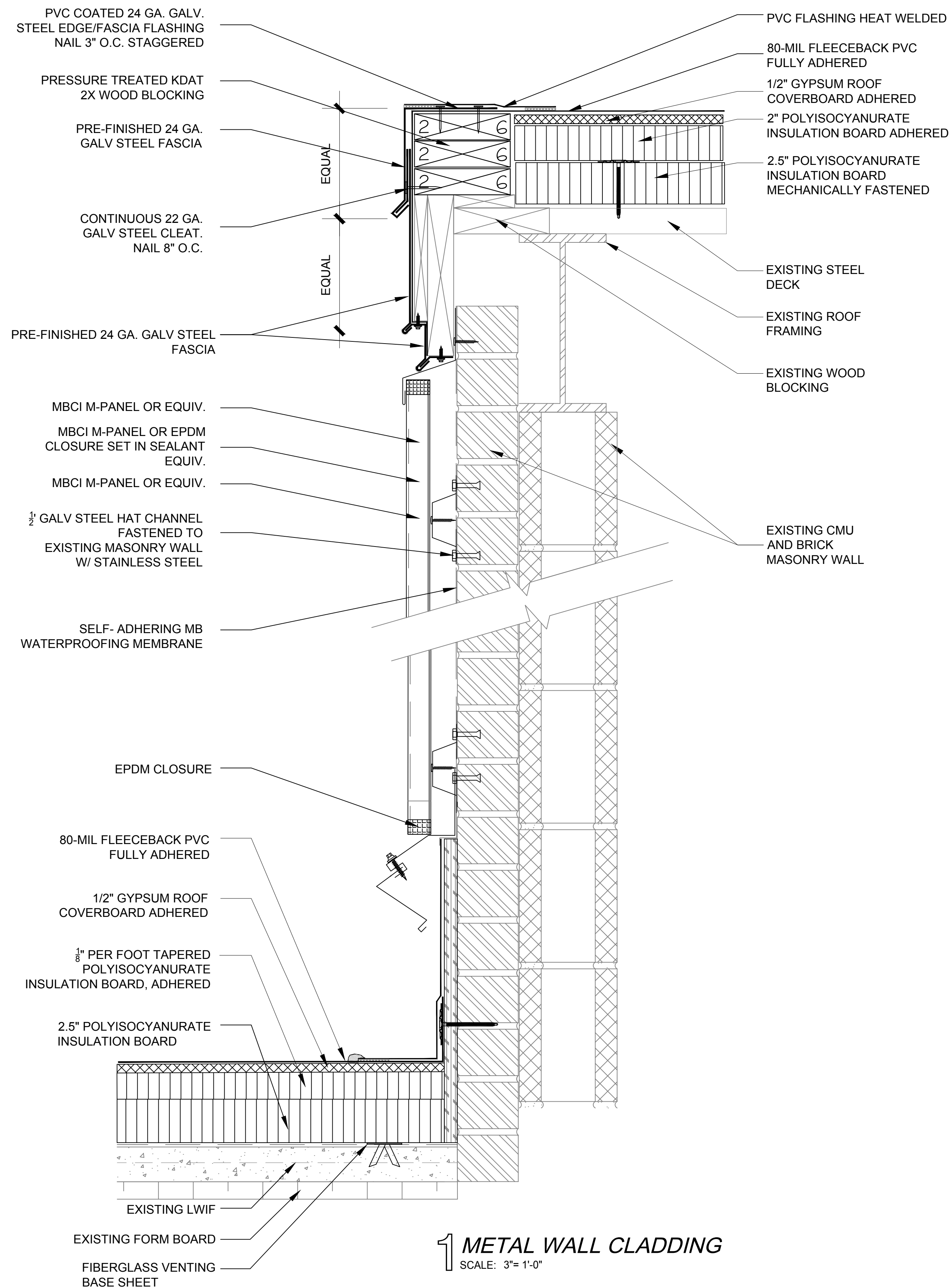
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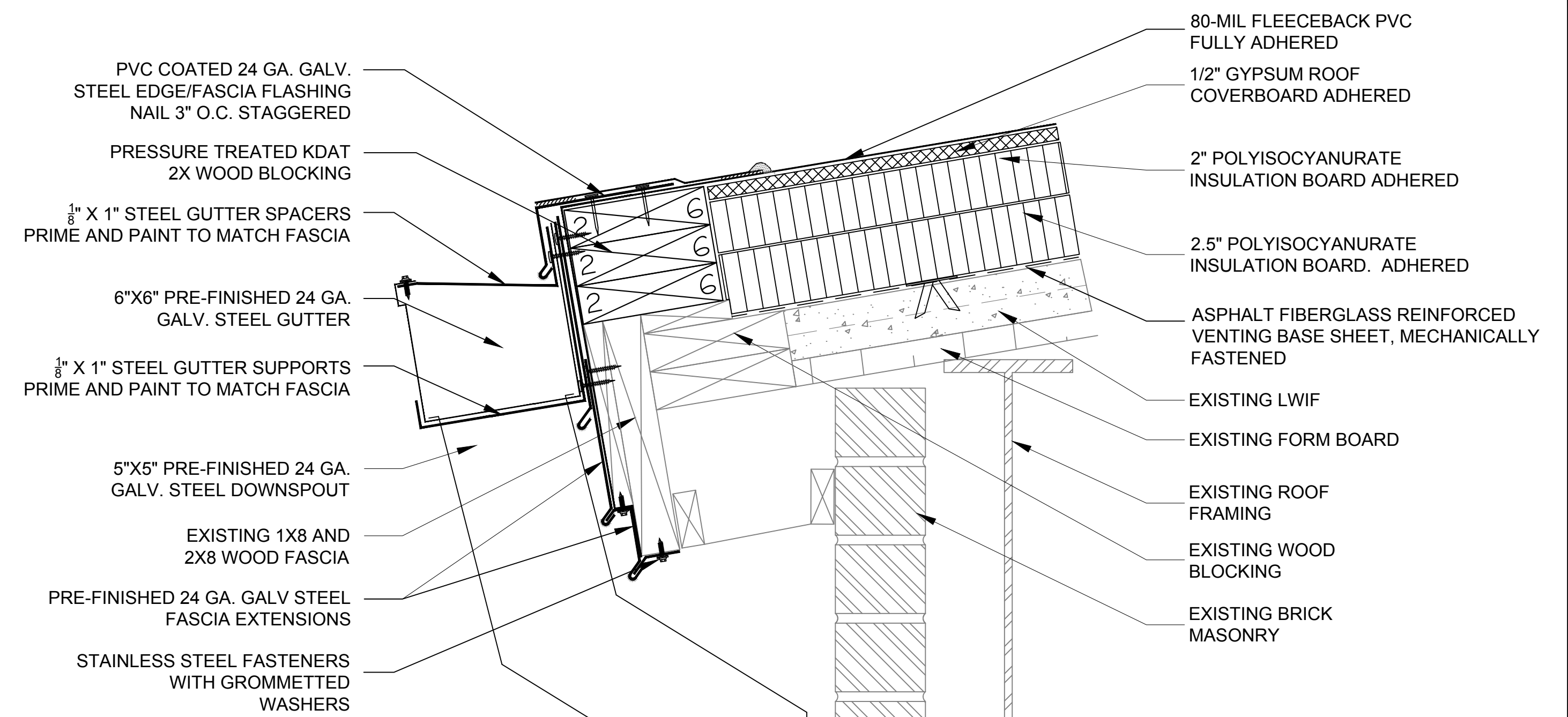
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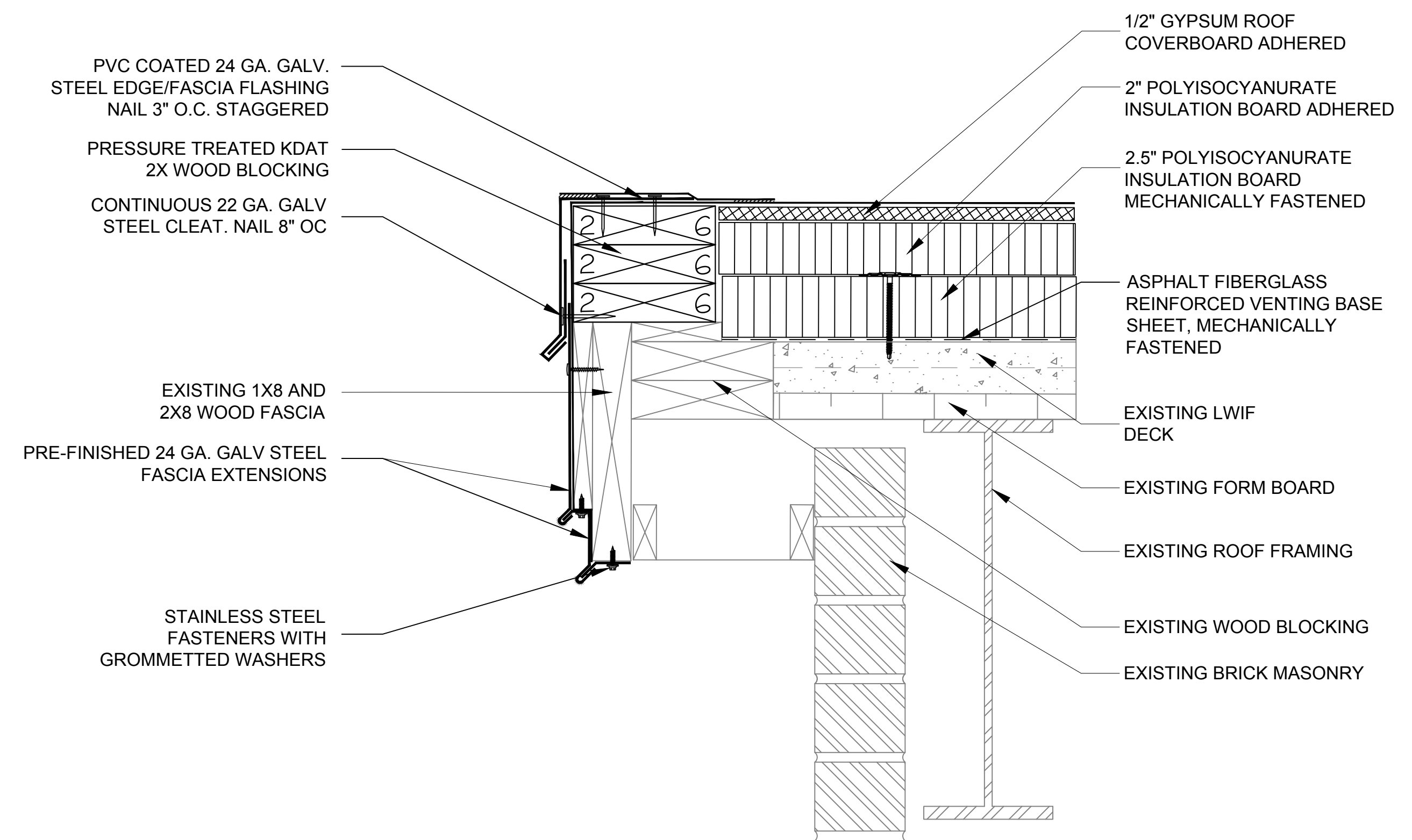
R-3.1



1 METAL WALL CLADDING
SCALE: 3"=1'-0"



2 GUTTER/FASCIA @ 2:12 LWIF DECKS
SCALE: 3"=1'-0"



3 RAKE/FASCIA @ 2:12 LWIF DECKS
SCALE: 3"=1'-0"

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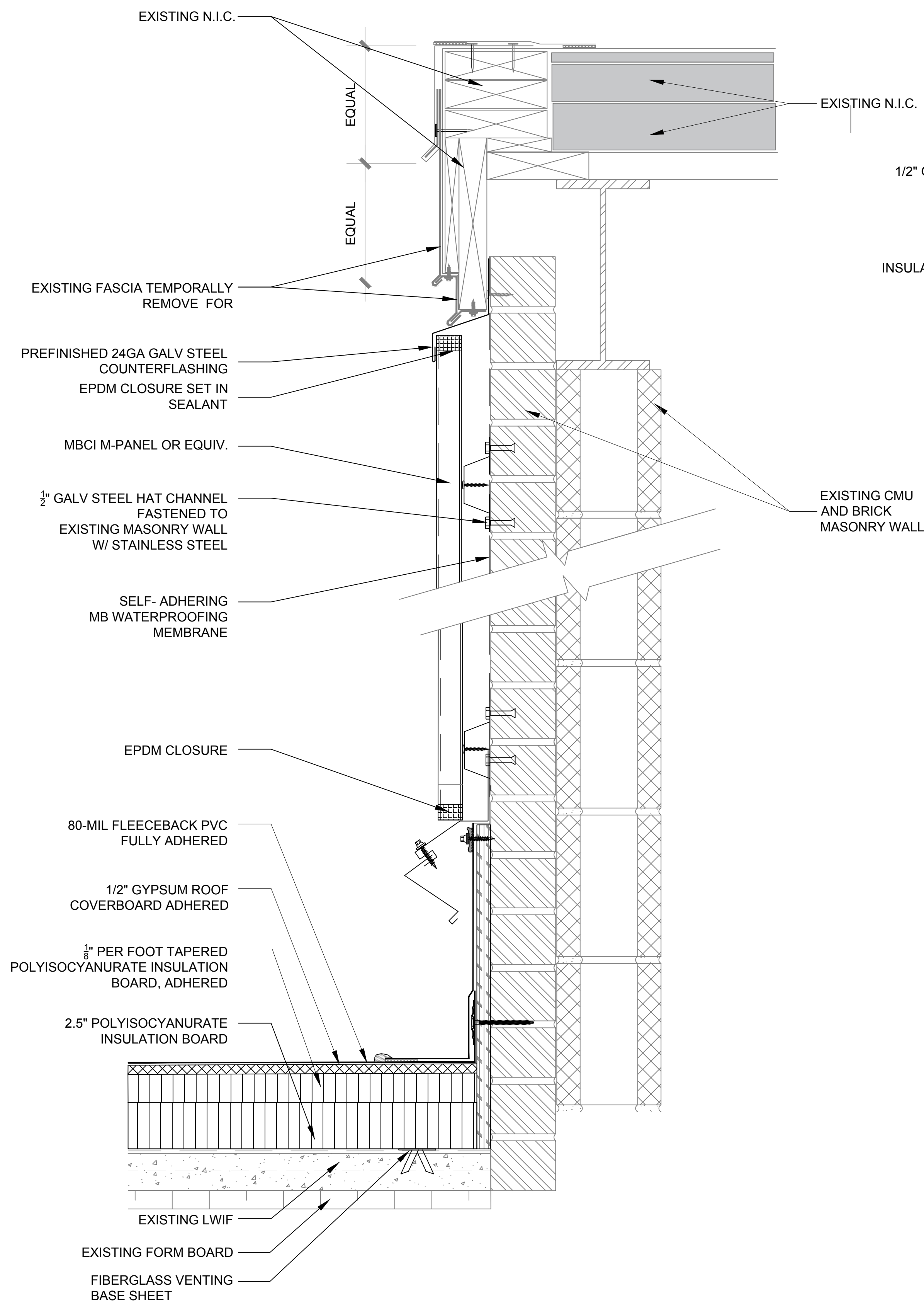
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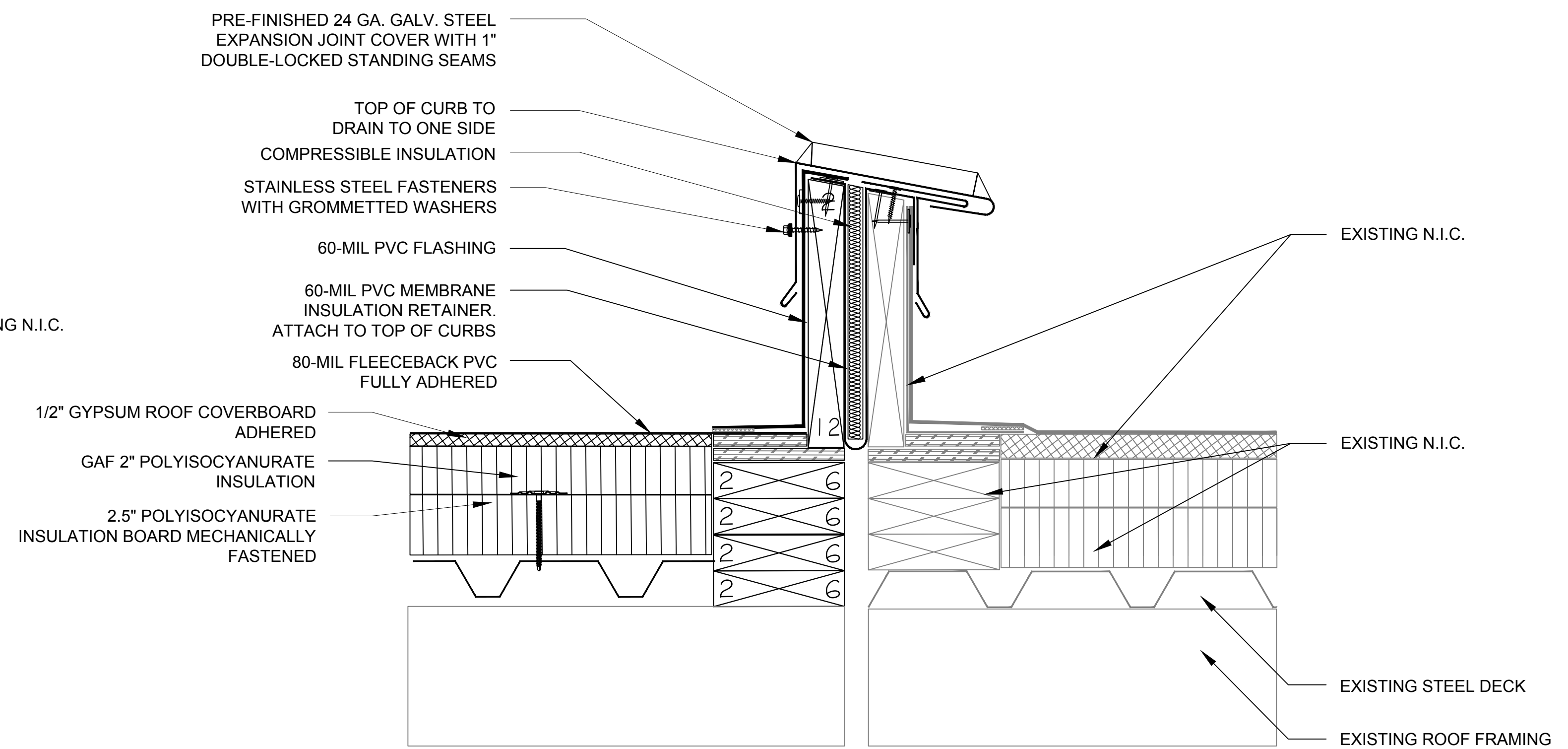
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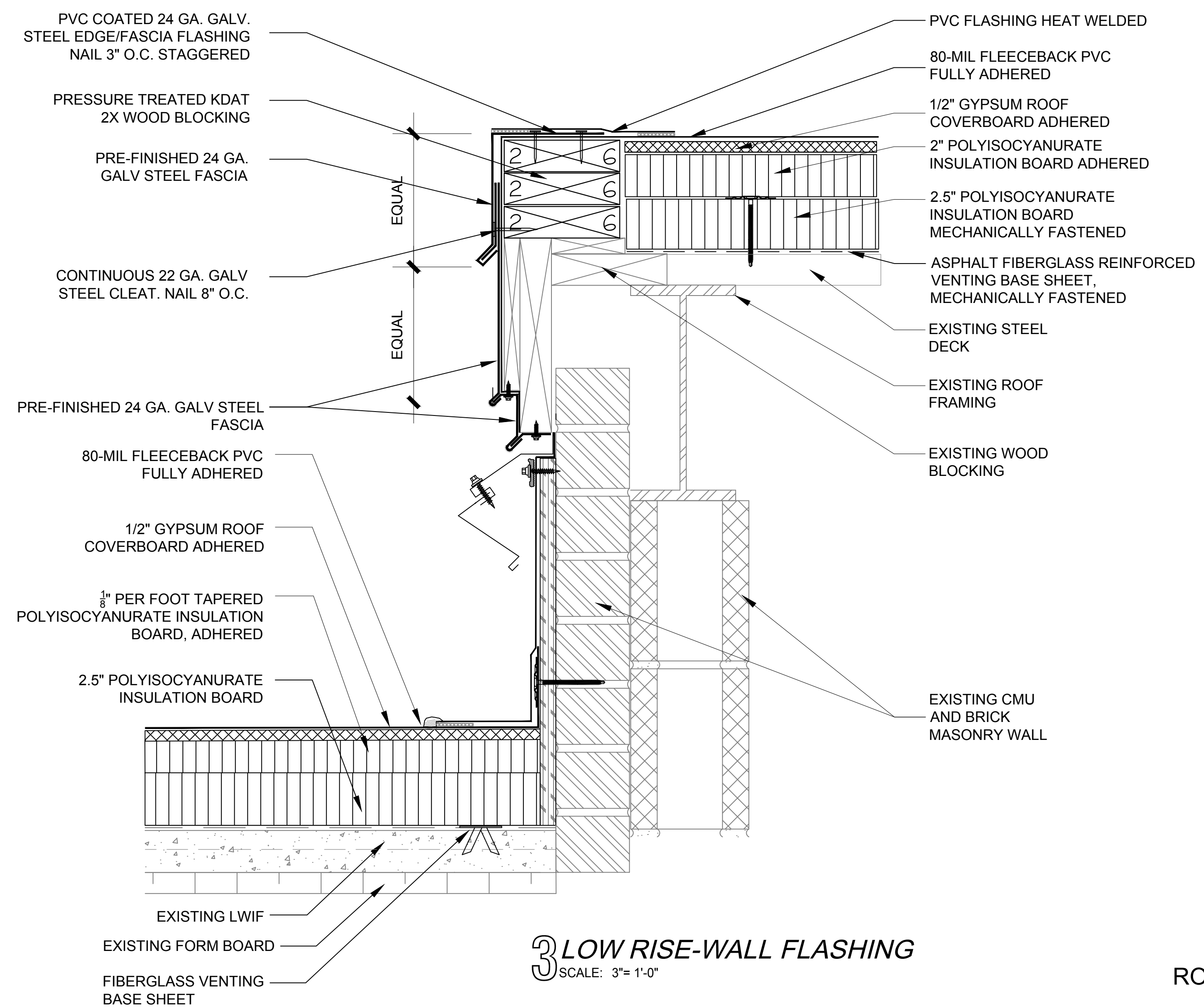
R-3.2



1 METAL WALL CLADDING
SCALE: 3"= 1'-0"



2 EXPANSION JOINT @ A-4 AND A-01
SCALE: 3"= 1'-0"



3 LOW RISE-WALL FLASHING
SCALE: 3"= 1'-0"

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515 VARGAS RD. AUSTIN, TEXAS

REVISIONS



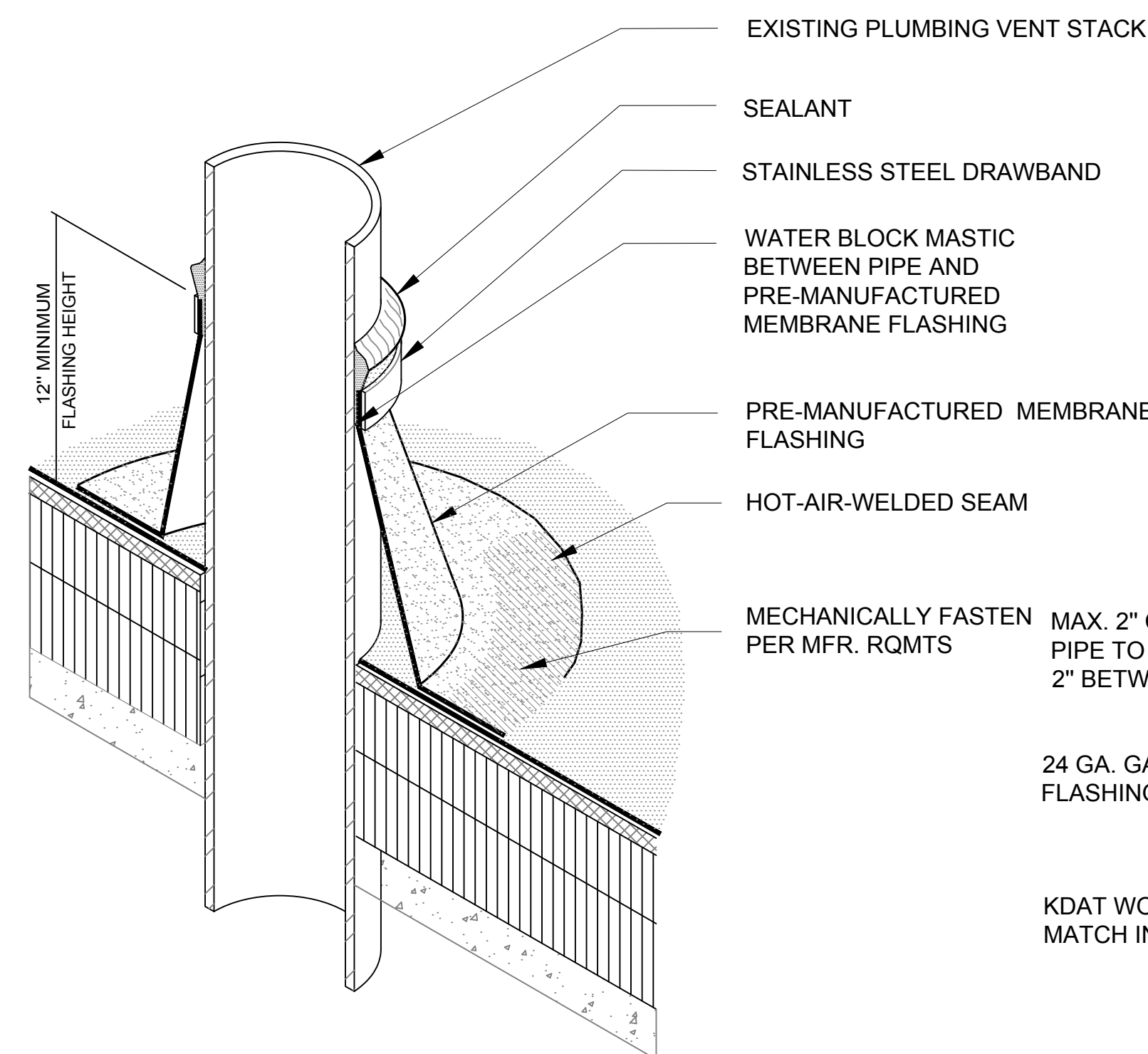
02/07/2020

DATE 02/07/2020

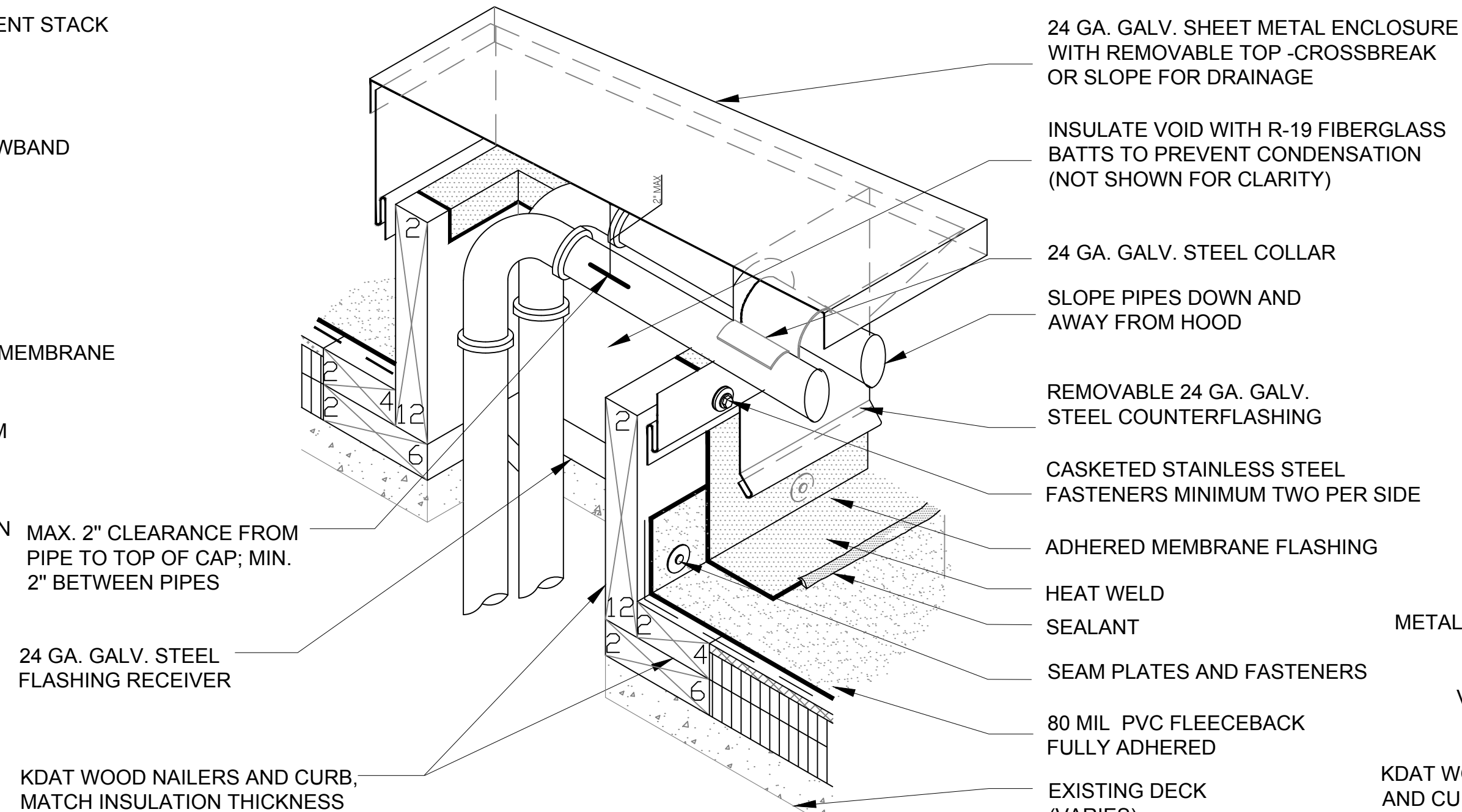
SCALE AS SHOWN

SHEET NO.

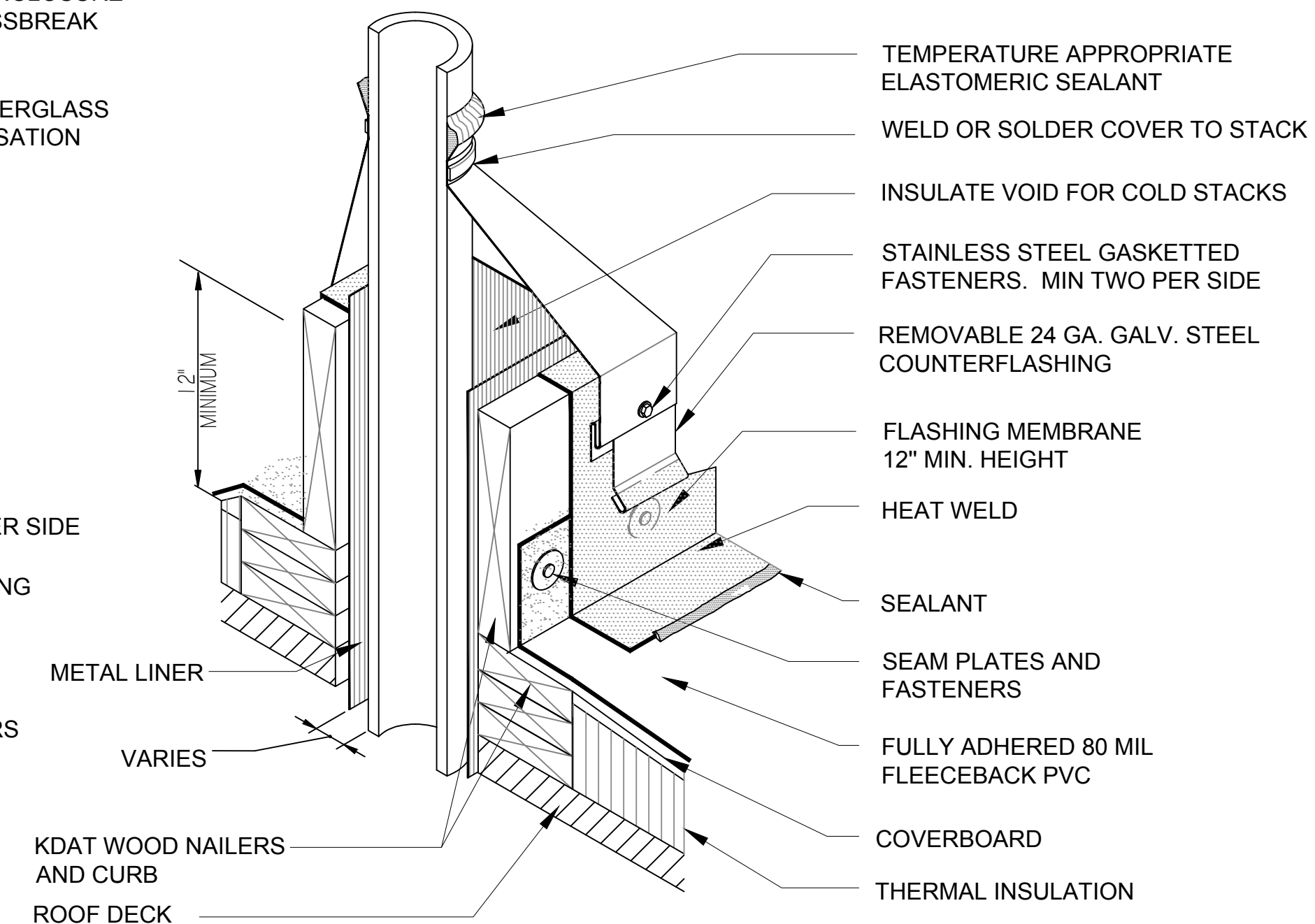
R-3.3



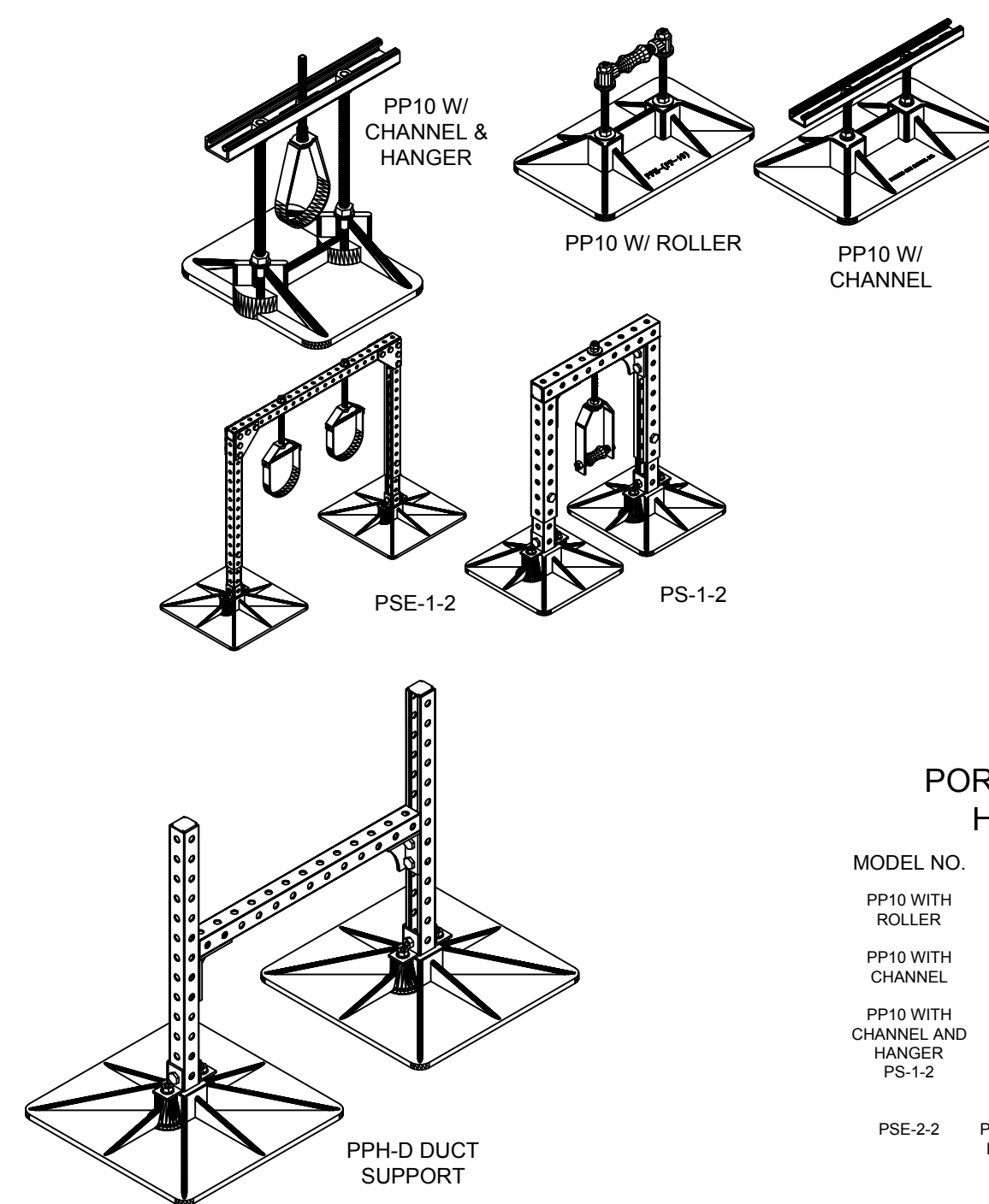
1 PRE-MFD PLUMBING VENT FLASHING
SCALE: N.T.S.



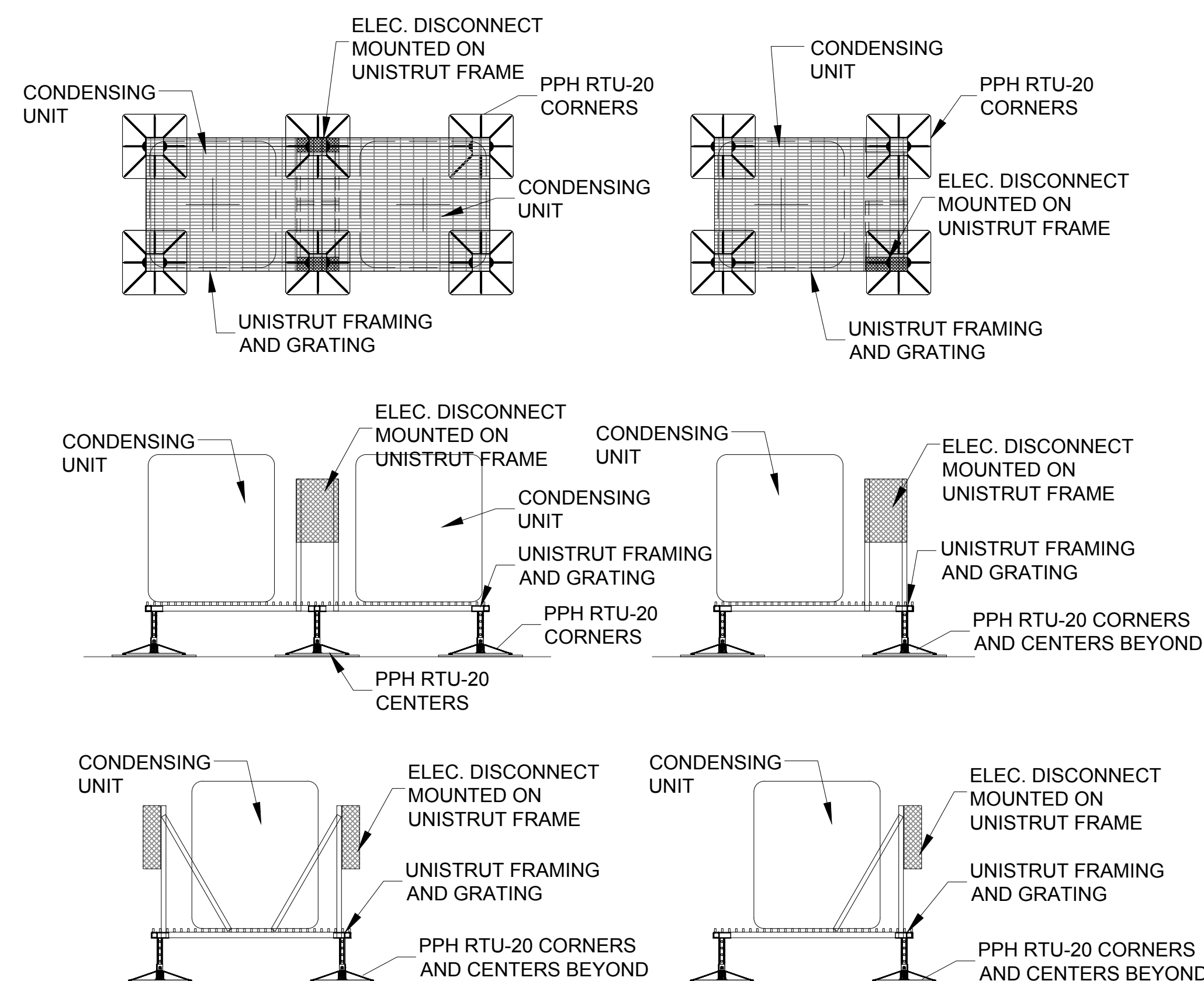
2 PIPE/CONDUIT PENETRATION CURB
SCALE: N.T.S.



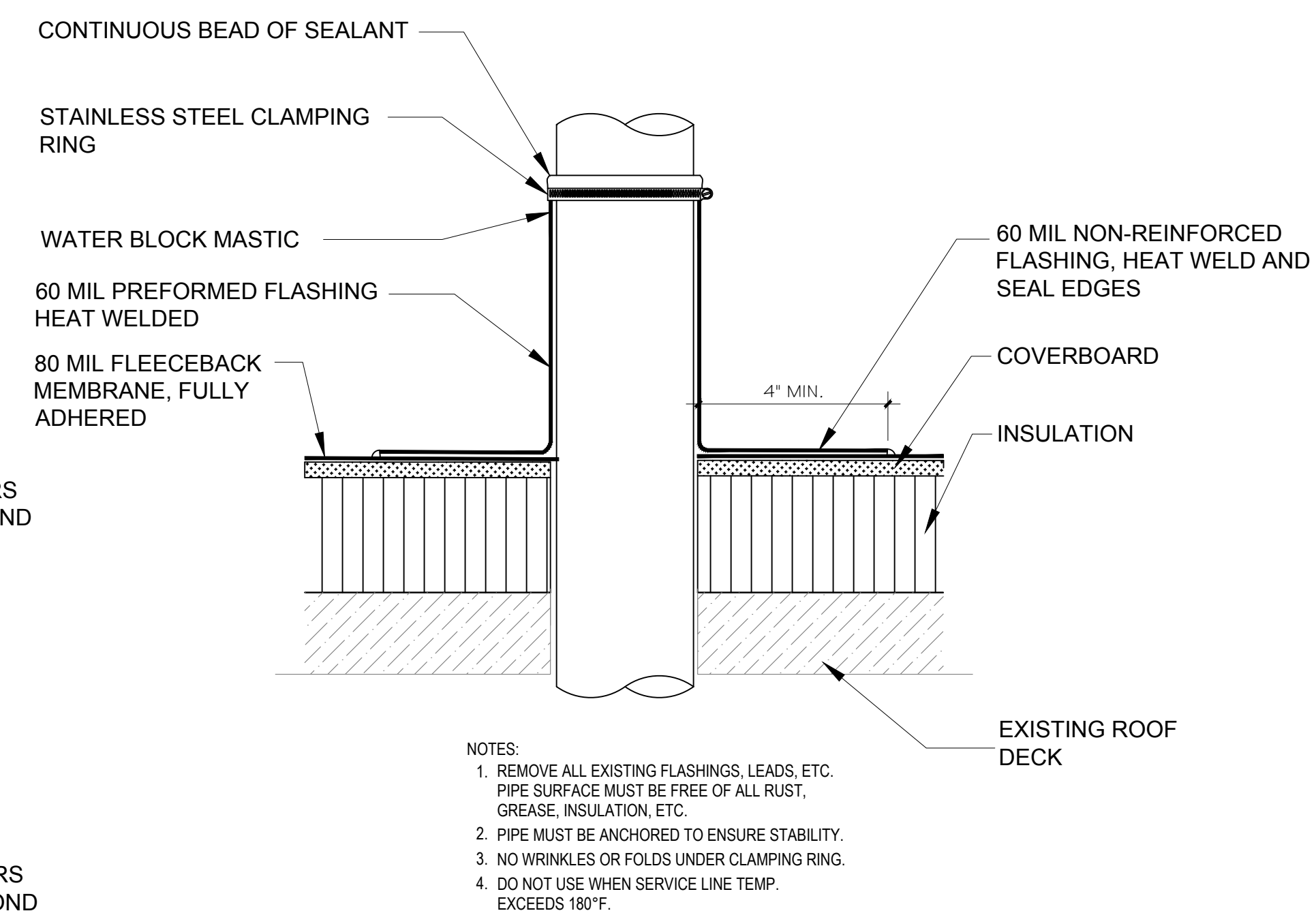
3 SQUARE TO ROUND STACK PENETRATION
SCALE: N.T.S.



4 ROOFTOP PIPE AND DUCT SUPPORTS
SCALE: N.T.S.



5 COND. UNIT/ELEC. DISC. SUPPORTS.
SCALE: N.T.S.



NOTES:
1. REMOVE ALL EXISTING FLASHINGS, LEADS, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
2. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
3. NO WRINKLES OR FOLDS UNDER CLAMPING RING.
4. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180°F.

6 ROUND PENETRATION FLASHING
PENETRATIONS OVER 6" DIA.
SCALE: N.T.S.

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2020 ROOF IMPROVEMENTS
AUSD PROJECT NO. 18-3302-ALLISON
ALLISON ELEMENTARY SCHOOL
515 VARGAS RD. AUSTIN, TEXAS

REVISIONS



02/07/2020

DATE 02/07/2020

SCALE AS SHOWN

SHEET NO.

R-4.0

ROOF DETAILS

R-4.1