

CODE INFORMATION

APPLICABLE CODES:

THE R-VALUES FOR THE ROOF INSULATION FOR THIS PROJECT MEET THE 2020 MINNESOTA BUILDING CODE, THE 2024 MINNESOTA ENERGY CODE AND MINNESOTA STATE (MINNSTATE.EDU) STANDARDS.

MINIMUM CODE REQUIREMENT FOR DOUGLAS COUNTY, MN (ZONE 6A) IS R-30

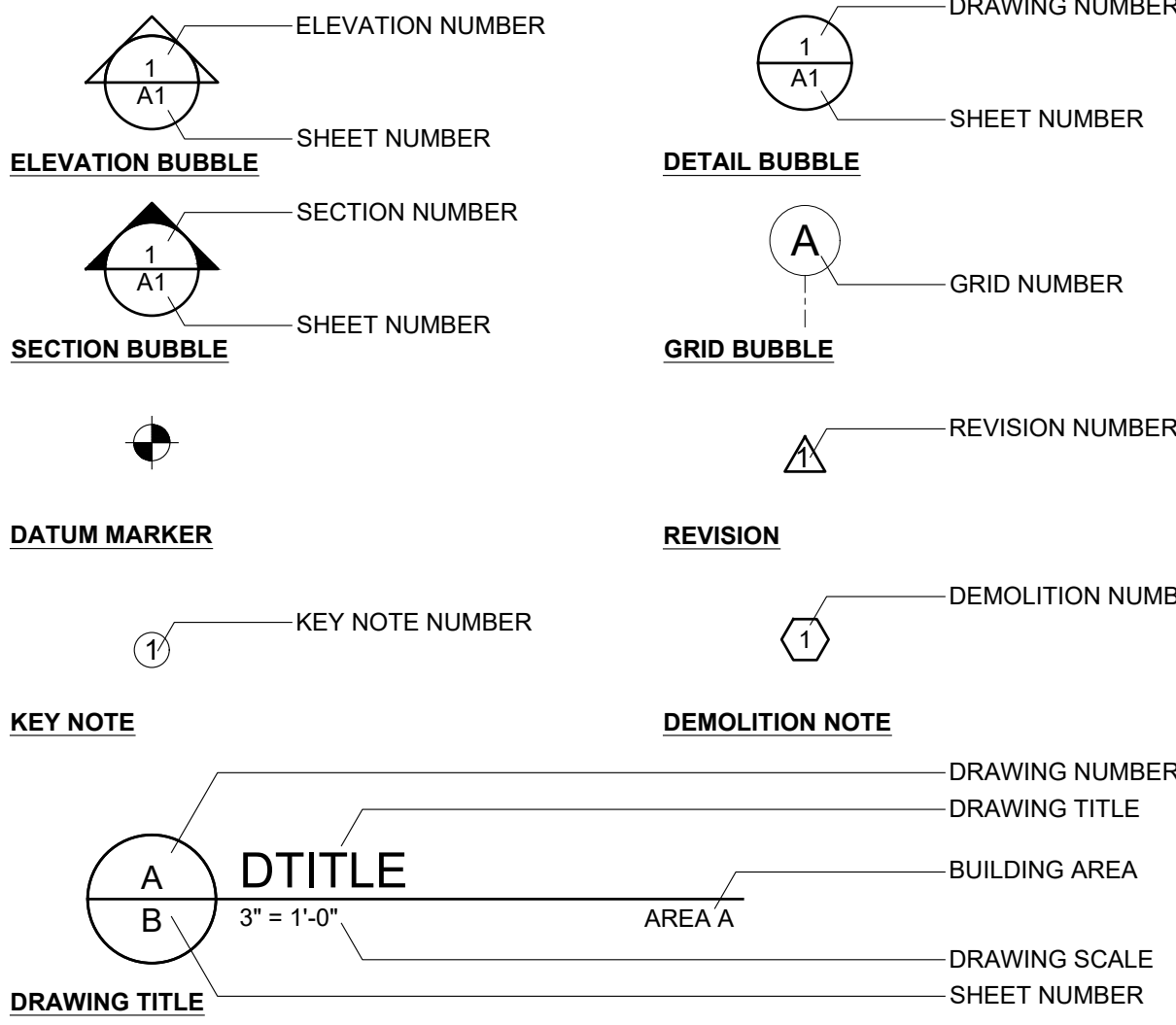
MINIMUM STANDARDS REQUIREMENT FOR MINNESOTA STATE (MINNSTATE.EDU) IS R-35

AREA 1.1 (AT ACOUSTICAL STEEL DECK)
HIGH DENSITY ISOYANURATE INSULATION 0.5" TOP LAYER
1/4" PER FOOT TAPERED ISOYANURATE INSULATION 6.0" AVERAGE THICKNESS
1/2" GYPSUM THERMAL BARRIER
TOTAL
R-VALUE
2.50
34.02
-
2.50
39.02

AREA 1.2 AND 1.3
HIGH DENSITY ISOYANURATE INSULATION 0.5" TOP LAYER
1/4" PER FOOT TAPERED ISOYANURATE INSULATION 6.0" AVERAGE THICKNESS
1/2" GYPSUM THERMAL BARRIER
TOTAL
R-VALUE
2.50
34.02
-
2.50
39.02

AREAS 1.2 AND 1.3
HIGH DENSITY ISOYANURATE INSULATION 0.5" TOP LAYER
1/4" PER FOOT TAPERED ISOYANURATE INSULATION 6.0" AVERAGE THICKNESS
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TOTAL
R-VALUE
2.50
34.02
-
2.50
39.02

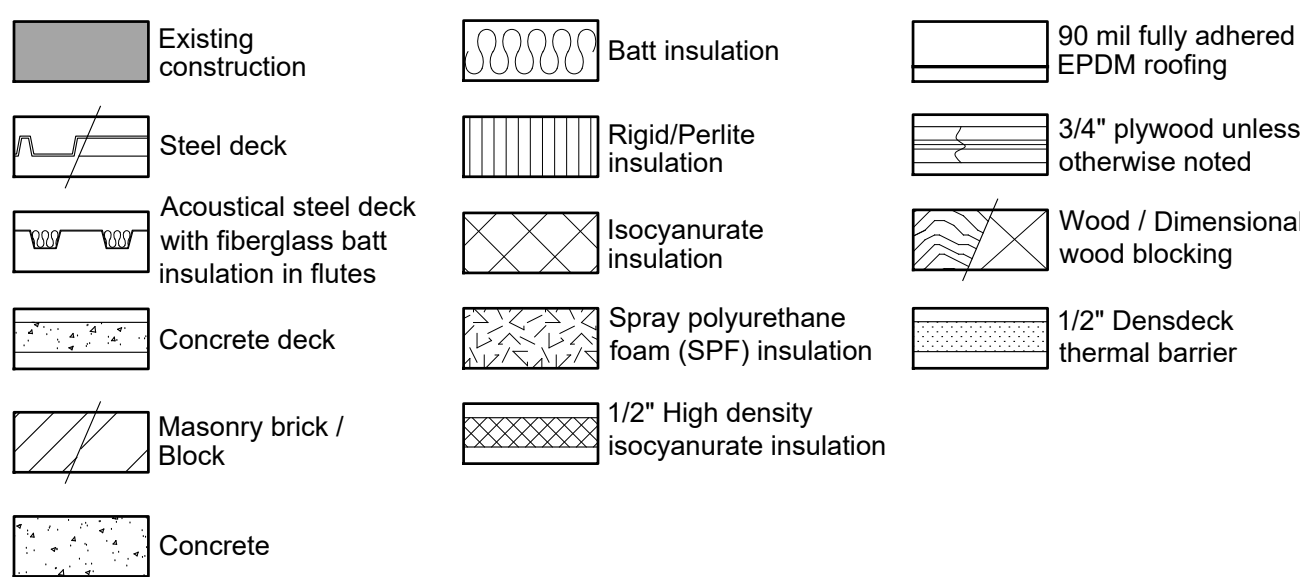
SYMBOLS LEGEND



GENERAL NOTES

- VERIFY MEASUREMENTS AND CONDITIONS ON THE PROJECT.
- EXISTING AND NEW MATERIALS COMMON TO SEVERAL DETAILS MAY BE NOTED ON ONLY ONE.
- FASTENERS ON DETAILS ARE GENERAL REPRESENTATIONS. SEE SPECIFICATIONS FOR ACTUAL FASTENERS TO BE USED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE WORKING CONDITIONS ON AREAS FOR EMPLOYEES OR OTHER PERSONS AT THE SITE.
- FASTEN WOOD BLOCKING TO MASONRY WITH 1/4" DIAMETER MASONRY ANCHORS AT 3'-0" O.C., STAGGERED.
- NAIL MEMBRANE FLASHING AT TOP EDGE THROUGH 1" DIAMETER METAL DISCS AT 8" O.C. AND SEAL TOP EDGE. USE MASONRY ANCHORS AT 12" O.C. FOR MASONRY SURFACES.
- SHEET METAL SHOWN SHALL BE NEW 24 GA. COLOR-COATED G.S. UNLESS NOTED OTHERWISE. FOR FULLY SOLDERED SHEET METAL INTENDED TO BE PAINTED, USE BONDERIZED SHEET METAL, PREP PRIME AND PAINT TO MATCH ADJACENT SHEET METAL, UNLESS INDICATED OTHERWISE.
- FASTEN CAP FLASHINGS (NON ROOF EDGE RELATED) AND COUNTERFLASHING TO WOOD BLOCKING WITH SCREWS THROUGH EPDM WASHERS AT 30" O.C.
- KEEPER STRIPS SHALL BE NEW 22 GA. G.S. NAIL FASTENED AT 8" O.C., UNLESS NOTED OTHERWISE.
- FASTEN ROOF EDGE CAP FLASHING WITH SCREWS THROUGH EPDM WASHERS AT 18" O.C. MAXIMUM 10'-0" SPANS FOR CAP AND FASCIA FLASHING. PROVIDE COVER PLATE AS DETAILED.
- NOT ALL PIPING, CABLE, CONDUIT, ETC. ARE SHOWN ON ROOF PLAN. SITE VERIFY AND MODIFY AS REQUIRED TO PROVIDE NEW MATERIALS. COORDINATED DISCONNECTS WITH OWNER.
- REFER TO CONSULTANT DRAWINGS AND/OR SPECIFICATIONS FOR ASSEMBLIES AND/OR MATERIALS WHEN DRAWINGS INDICATE "DESIGN BY OTHERS".

MATERIALS LEGEND

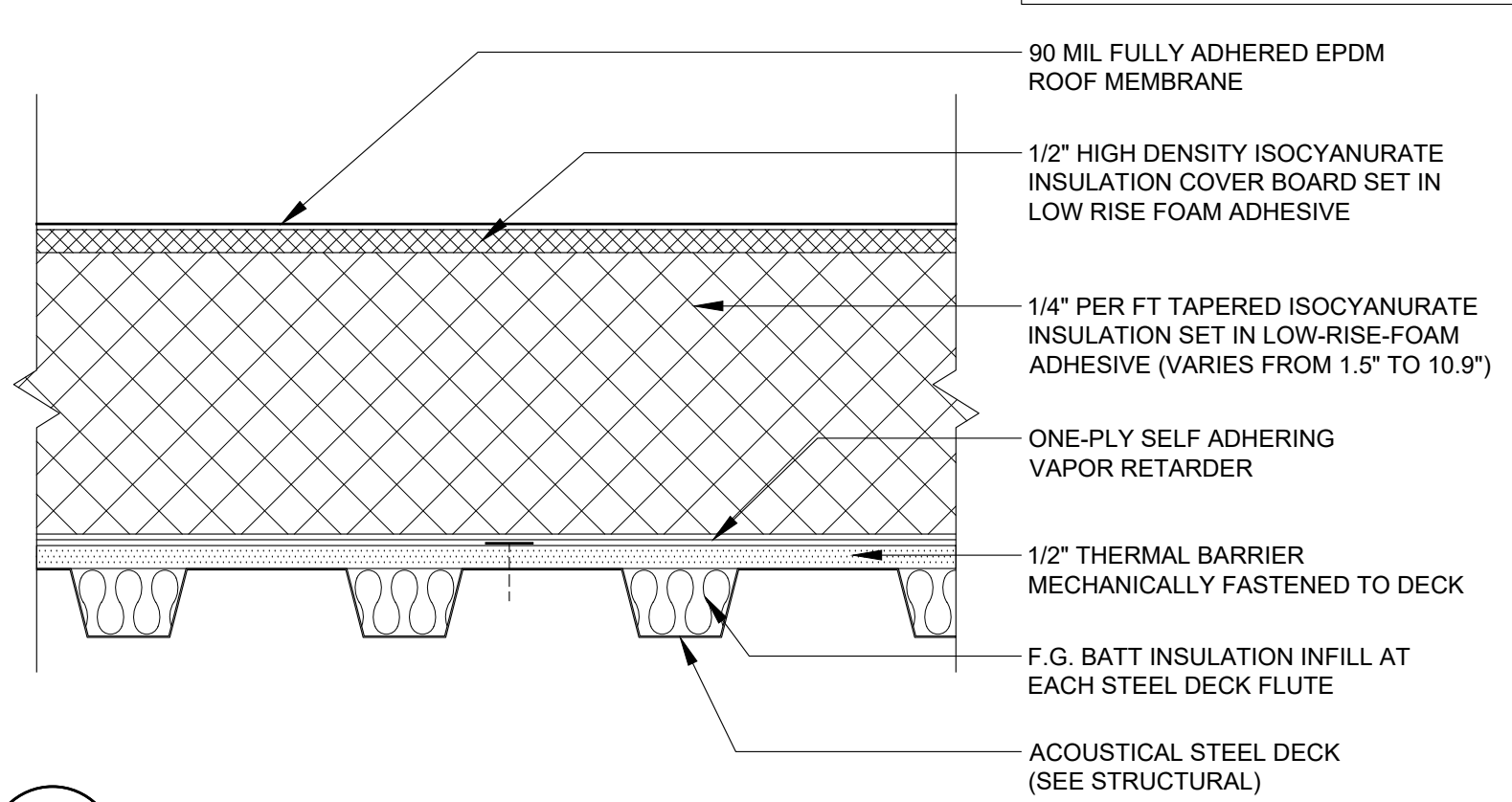


ROOF PLAN NOTATION

- (a) AT PRECAST ROOF EDGE OR PARAPET TO PRECAST WALL CONNECTION, PROVIDE A ONE-PIECE FULLY SOLDERED SHEET METAL END ENCLOSURE (SEE DETAIL 1/R503)
- (b) AT CMUBRICK ROOF EDGE OR PARAPET TO CMUBRICK WALL CONNECTION AT CORNER, PROVIDE A ONE-PIECE FULLY SOLDERED SHEET METAL END ENCLOSURE (SEE DETAIL 2/R503)
- (c) AT CMUBRICK ROOF EDGE OR PARAPET TO CMUBRICK WALL CONNECTION, PROVIDE A ONE-PIECE FULLY SOLDERED SHEET METAL END ENCLOSURE (SEE DETAIL 3/R503)
- (d) AT CONTROL JOINT TO PARAPET OR WALL CONNECTION, EXTEND WOOD BLOCKING FULL HEIGHT AND PROVIDE A ONE-PIECE FULLY SOLDERED SHEET METAL END CLOSURE.
- (e) PROVIDE 30" X 30" WALKWAY PADS WITHIN 5'-0" OF ROOF HATCHES AND ACCESS DOORS
- (1.0) INSULATION THICKNESS IN INCHES ABOVE DECK (INCLUDES 1/2" THERMAL BARRIER AND 1/2" HIGH DENSITY ISOYANURATE INSULATION ON DECK)
- INSULATION - 1/4" PER FT TAPERED INSULATION WITH 1/2" PER FT TAPERED INSULATION Sumps AND 1/2" PER FT TAPERED INSULATION CRICKETS (UNLESS NOTED OTHERWISE)
- AD ACCESS DOOR (SEE DETAIL 6/R501)
- CJ CONTROL JOINT (SEE DETAIL 4/R502)
- EF NEW EXHAUST FAN AND CURB AT NEW LOCATION. PROVIDE NEW CURB (SEE DETAIL 6/R502)
- MU NEW MECHANICAL UNIT AND CURB AT NEW LOCATION. PROVIDE 1/2" FT. TAPERED INSULATION CRICKETS AT HIGH SIDE OF ALL CURBS (SEE DETAIL 5/R502 AND MECHANICAL DRAWINGS)
- ORD NEW OVERFLOW ROOF DRAIN AT NEW LOCATION (SEE DETAIL 2/R502 SIM TO #1 AND MECHANICAL DRAWINGS)
- RD-1 NEW ROOF DRAIN AT NEW LOCATION (SEE DETAIL 2/R502)
- RD-2 NEW ROOF DRAIN AT NEW LOCATION (SEE DETAIL 2/R502 SIM TO #2)
- RD-3 NEW ROOF DRAIN AT NEW LOCATION (SEE DETAIL 2/R502 SIM TO #3)
- RH NEW ROOF HATCH AT NEW LOCATION (SEE DETAIL 7/R502 AND STRUCTURAL DRAWINGS)
- SV SANITARY VENT STACK / GOOSENECK VENT STACK / VENT STACK GNVS (SEE DETAIL 4/R503)

T.A.S.D. TOP OF ACOUSTICAL STEEL DECK
T.C.D. TOP OF CONCRETE DECK
T.S.D. TOP OF STEEL DECK

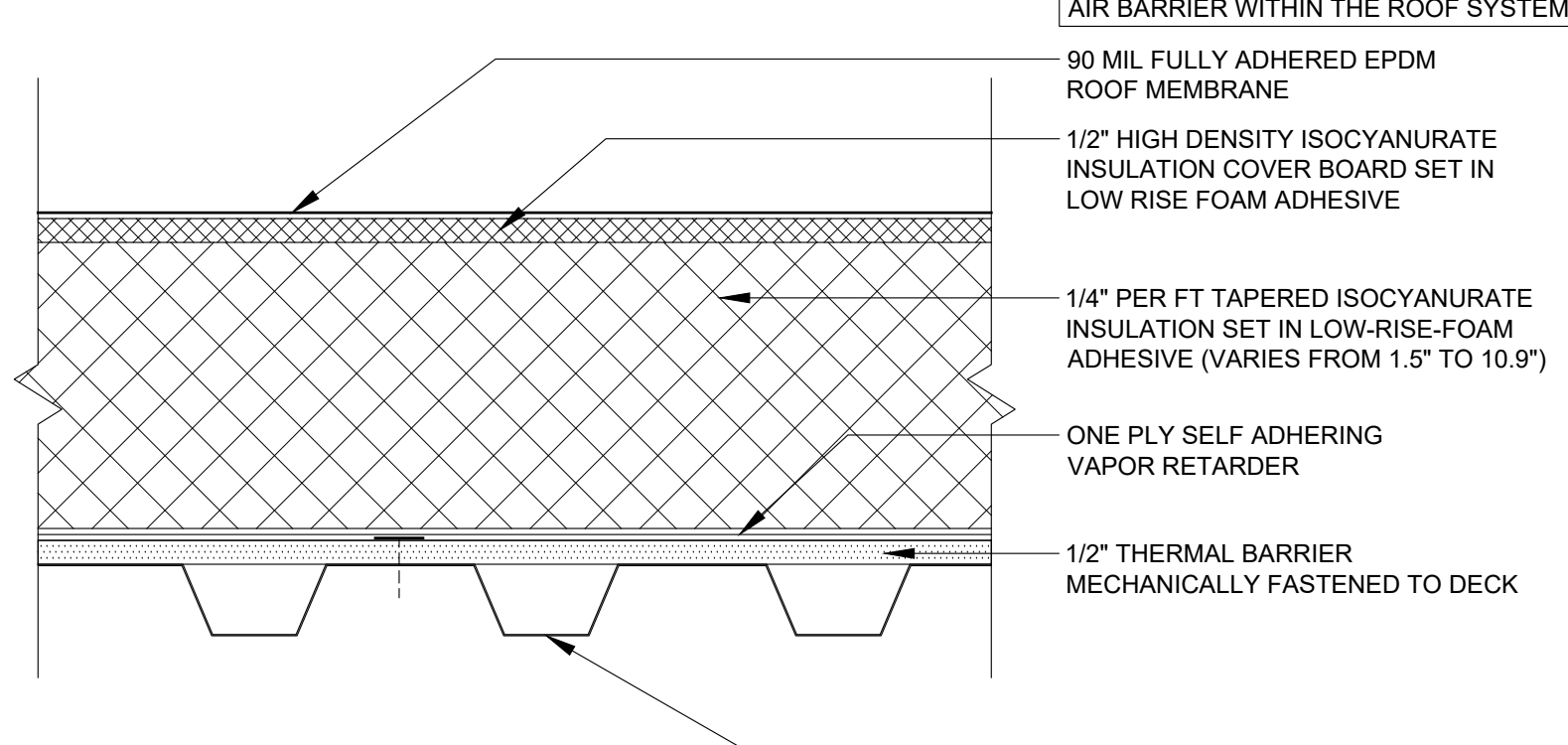
NOTE:
THE VAPOR RETARDER SERVES AS THE AIR BARRIER WITHIN THE ROOF SYSTEM



2 ROOF TYPE 1
3" = 1'-0"

ROOF AREA 1.1

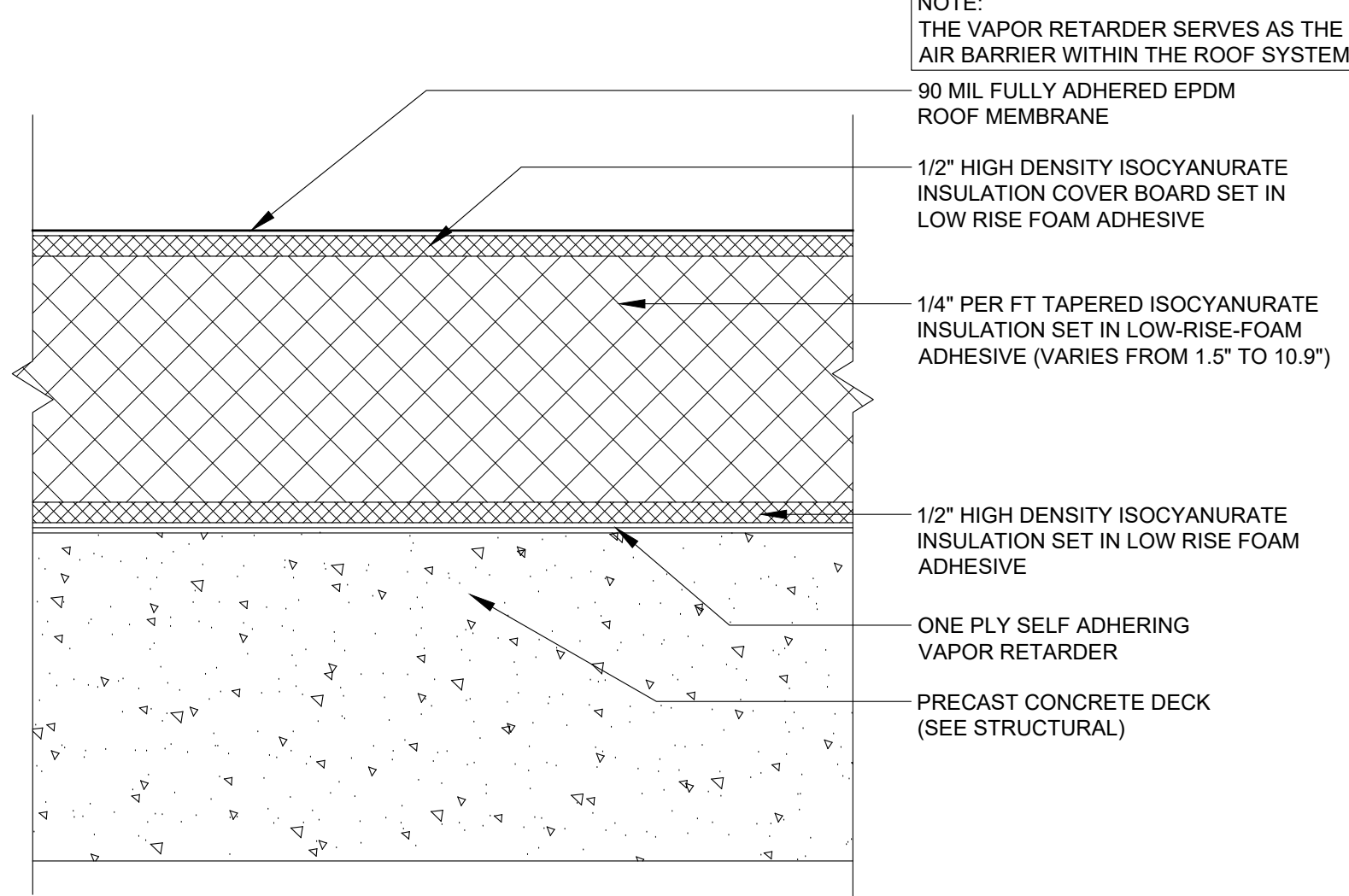
NOTE:
THE VAPOR RETARDER SERVES AS THE AIR BARRIER WITHIN THE ROOF SYSTEM



3 ROOF TYPE 2
3" = 1'-0"

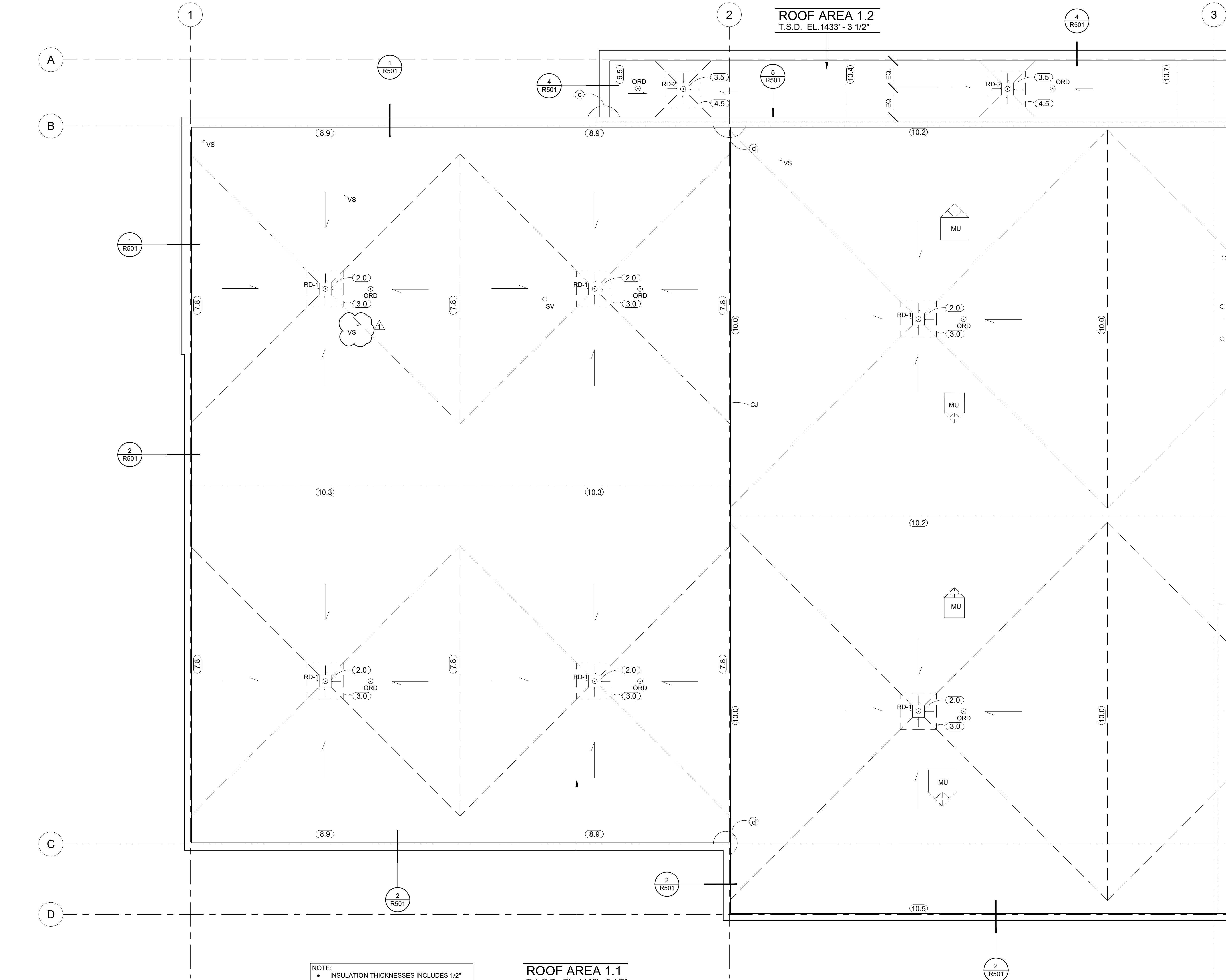
ROOF AREAS 1.2 AND 1.3

NOTE:
THE VAPOR RETARDER SERVES AS THE AIR BARRIER WITHIN THE ROOF SYSTEM



4 ROOF TYPE 3
3" = 1'-0"

ROOF AREA 1.1



701 Washington Ave. N, Ste 200 | Minneapolis, MN 55401 | 612.338.2029

CLIENT:

ALEXANDRIA TECH
AND COMM. COLLEGE
1601 JEFFERSON STREET
ALEXANDRIA, MN 56308

ELECTRICAL CONSULTANT:

HALLBERG ENGINEERING
5051 Miller Trunk Highway
Hermantown, MN 55811

ROOF CONSULTANT:

INSPEC
1000 Parkers Lake Road, Suite 100
Weymouth, MN 55391

TECHNOLOGY CONSULTANT:

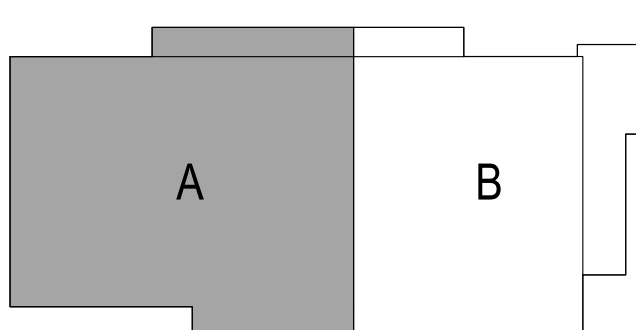
TRUE NORTH
14036 Steel Spur
Silverdale, MN 55982

ACOUSTICS CONSULTANT:

KRA
1917 Coventry Court
Mendota Heights, MN 55118

LAW ENFORCEMENT CENTER

TRANSPORTATION CENTER



KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2"
ON FULL SIZE SHEETS

02/27/2026 BID PACK #2
12/22/2025 BID PACK #1
NO DATE ISSUED FOR

1 03/18/2026 BP2 - ADDENDUM 01
NO DATE REVISION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: *Kalman Behrens*
TYPED OR PRINTED NAME: KALMAN BEHRENS
DATE: 02/27/2026 REGISTRATION NO.: 60480

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PROJECT NAME:
ATCC-23
TRANSPORTATION
CENTER

1601 JEFFERSON STREET
ALEXANDRIA, MN 56308

DRAWING TITLE:

ROOF PLAN
- TC BUILDING AREA A

DRAWN BY: KP

CHECKED BY: BFB

PROJ. NO: 215768

DRAWING NO:

R101a

CODE INFORMATION

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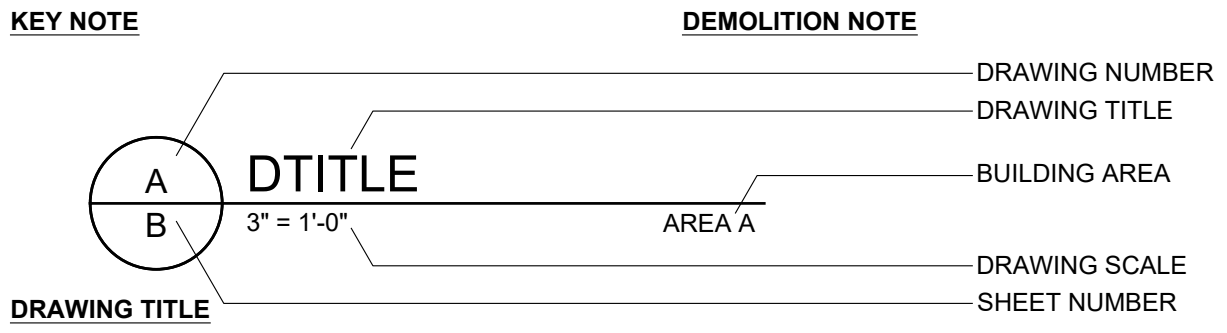
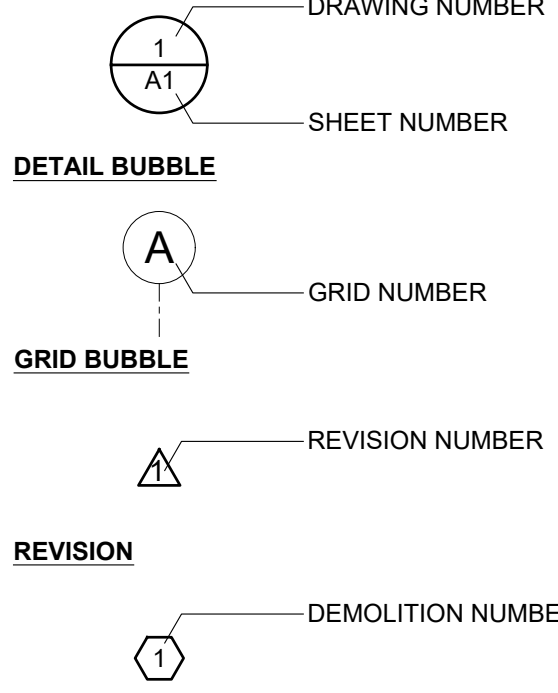
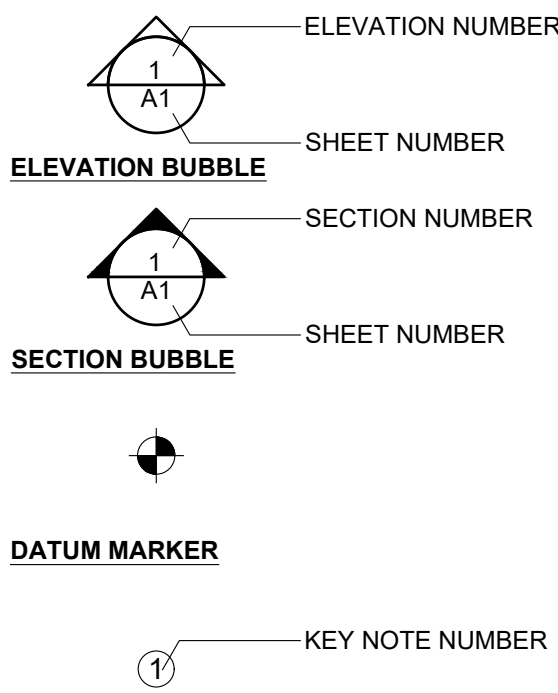
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34.02
-
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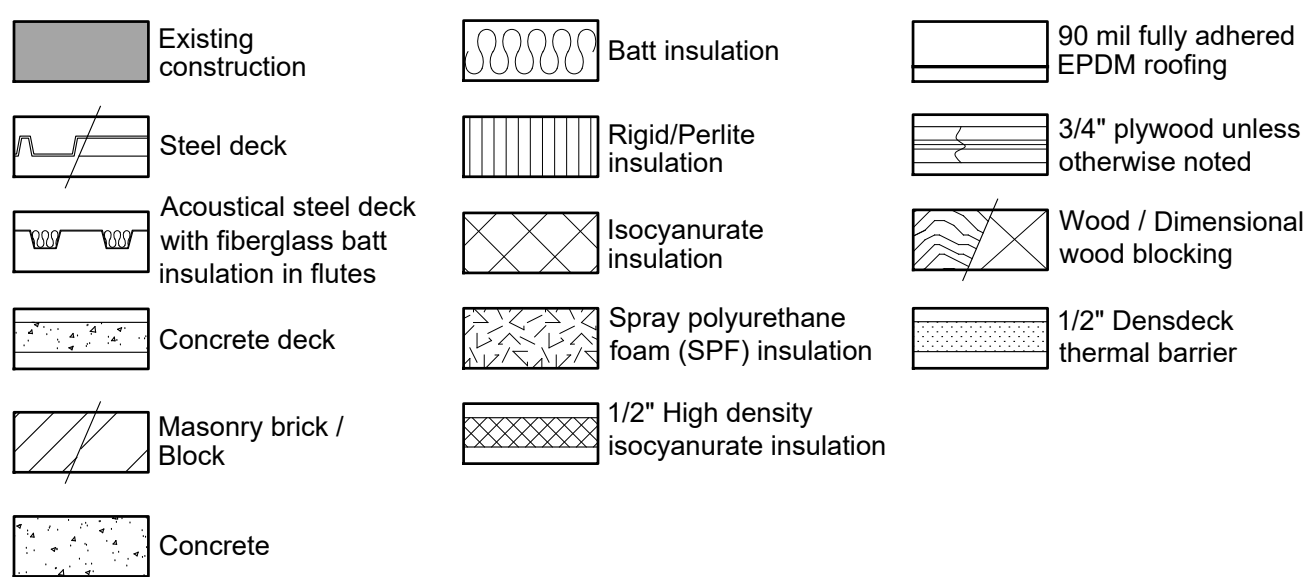
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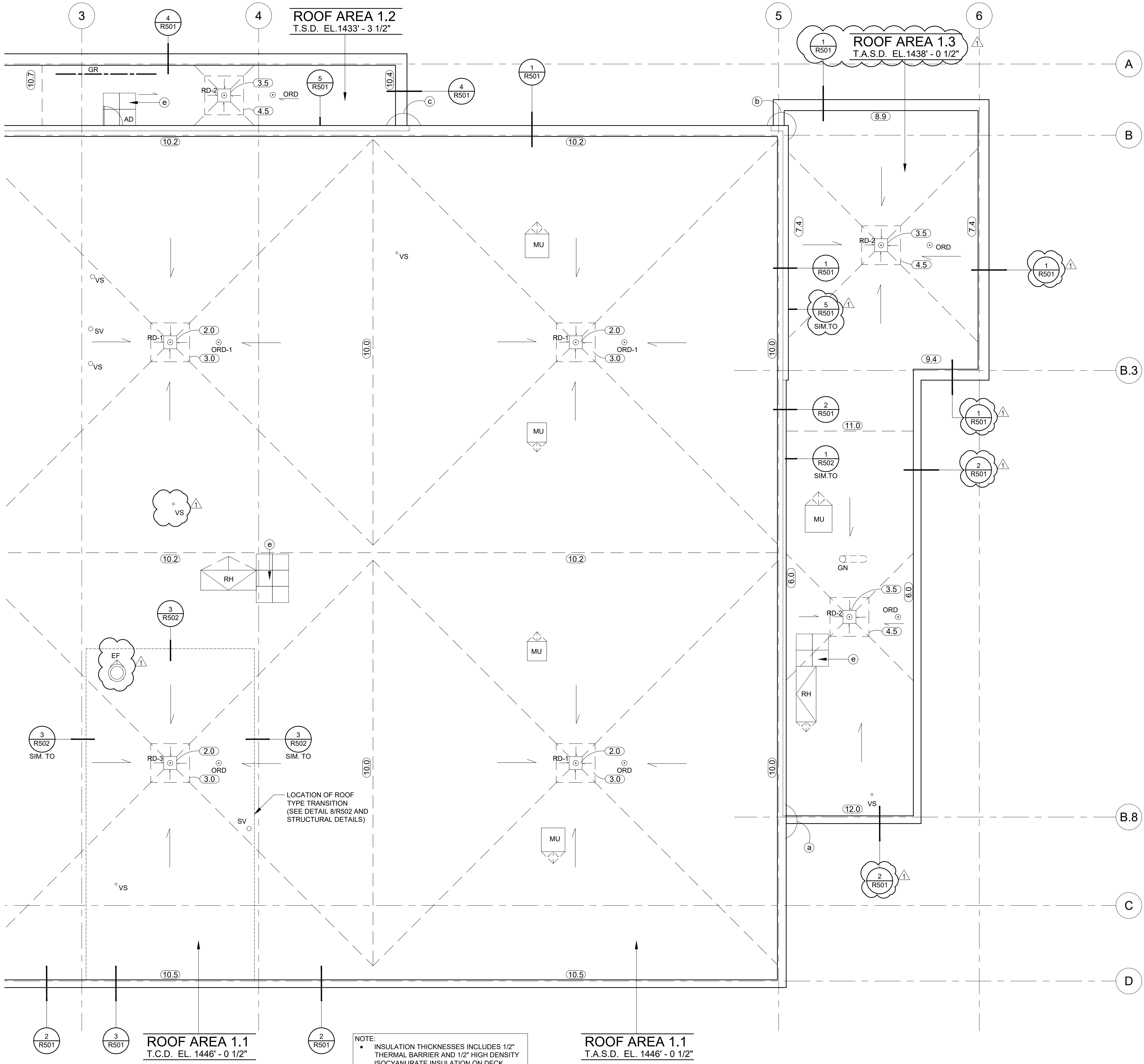
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- RD-3 NEW ROOF DRAIN AT NEW LOCATION (SEE DETAIL 2/R502 SIM TO #3)
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- SV/ GNVS SANITARY VENT STACK / GOOSENECK VENT STACK / VENT STACK (SEE DETAIL 4/R503)

T.A.S.D. TOP OF ACOUSTICAL STEEL DECK

T.C.D. TOP OF CONCRETE DECK

T.S.D. TOP OF STEEL DECK



1 ROOF PLAN
1/8" = 1'-0"

TRANSPORTATION CENTER - AREAS 1.1, 1.2 AND 1.3



GRADE ELEVATION
1416'-4" (ASSUMED)



701 Washington Ave. N, Ste 200 | Minneapolis, MN 55401 | 612.338.2029

ALEXANDRIA TECH
AND COMM. COLLEGE
1601 JEFFERSON STREET
ALEXANDRIA, MN 56308

ELECTRICAL CONSULTANT:
HALLBERG ENGINEERING
5051 Miller Trunk Highway
Hermantown, MN 55811

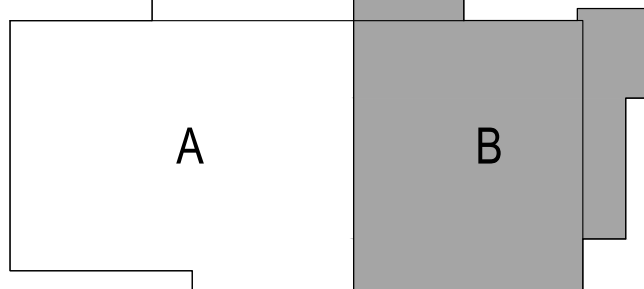
ROOF CONSULTANT:
INSPIC
1000 Parkers Lake Road, Suite 100
Wayzata, MN 55391

TECHNOLOGY CONSULTANT:
TRUE NORTH
140 3rd Street South
Silverdale, MN 55082

ACOUSTICS CONSULTANT:
KRA
1917 Coventry Court
Mendota Heights, MN 55118

LAW ENFORCEMENT CENTER

TRANSPORTATION CENTER



KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2"
ON FULL SIZE SHEETS

02/27/2026	BID PACK #2
12/22/2025	BID PACK #1
NO	DATE
	ISSUED FOR

1	03/18/2026	BP2 - ADDENDUM 01
NO	DATE	REVISION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: *Kaliann Behrens*
TYPED OR PRINTED NAME: KALIANN BEHRENS
DATE: 02/27/2026 REGISTRATION NO.: 60490

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PROJECT NAME:
ATCC-23
TRANSPORTATION
CENTER

1601 JEFFERSON STREET
ALEXANDRIA, MN 56308

DRAWING TITLE:
ROOF PLAN
- TC BUILDING AREA B

DRAWN BY: KP
CHECKED BY: BFB
PROJ. NO: 215768
DRAWING NO:

R101b

SHEET SIZE: 30x42
3/16/2026 9:54 AM
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ELECTRICAL CONSULTANT:
HALLBERG ENGINEERING
5051 Miller Trunk Highway
Hermantown, MN 55811

TECHNOLOGY CONSULTANT
TRUE NORTH
140 3rd Street South
Stillwater, MN 55082

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1917 Coventry Court
Mendota Heights, MN 55118

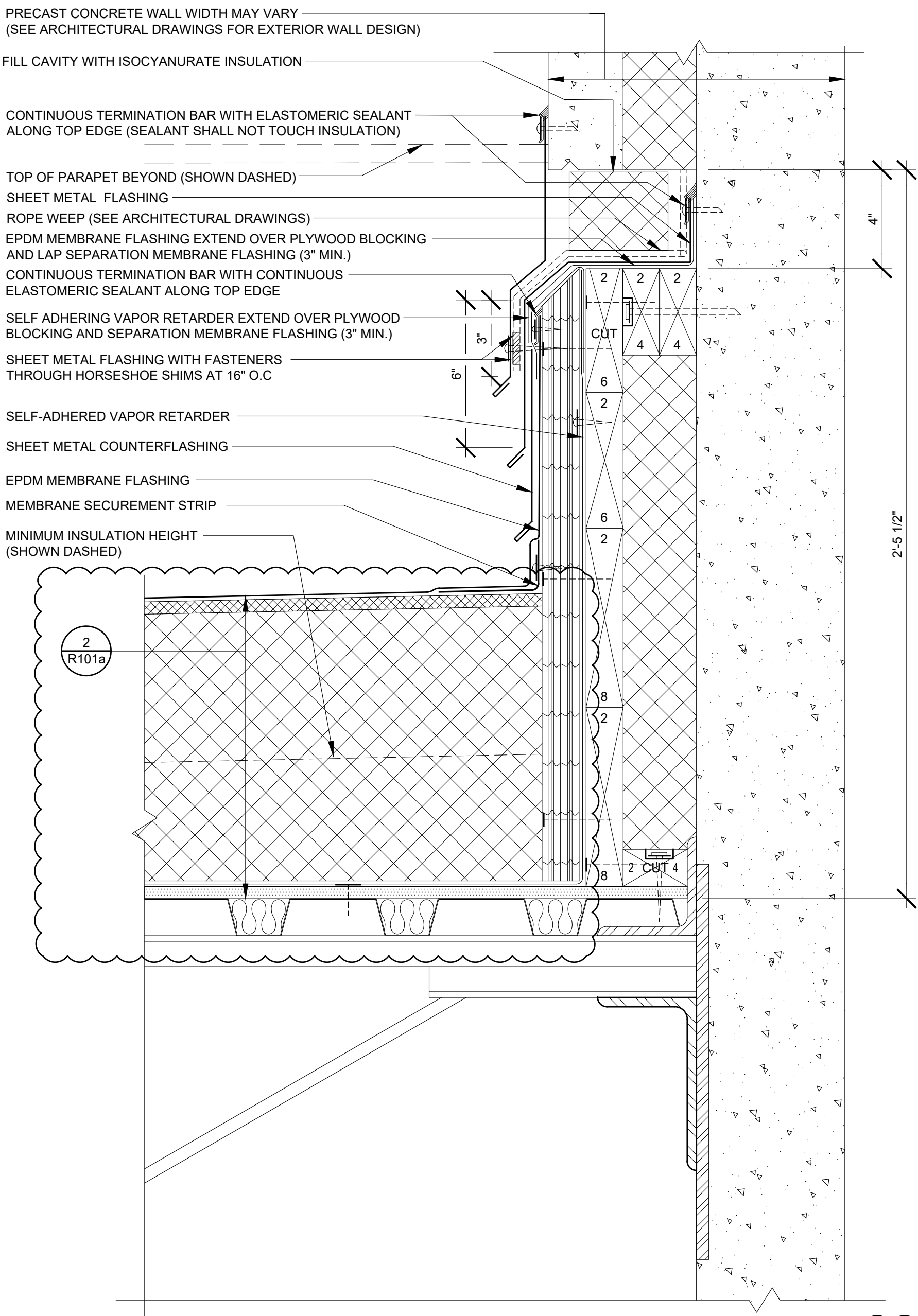
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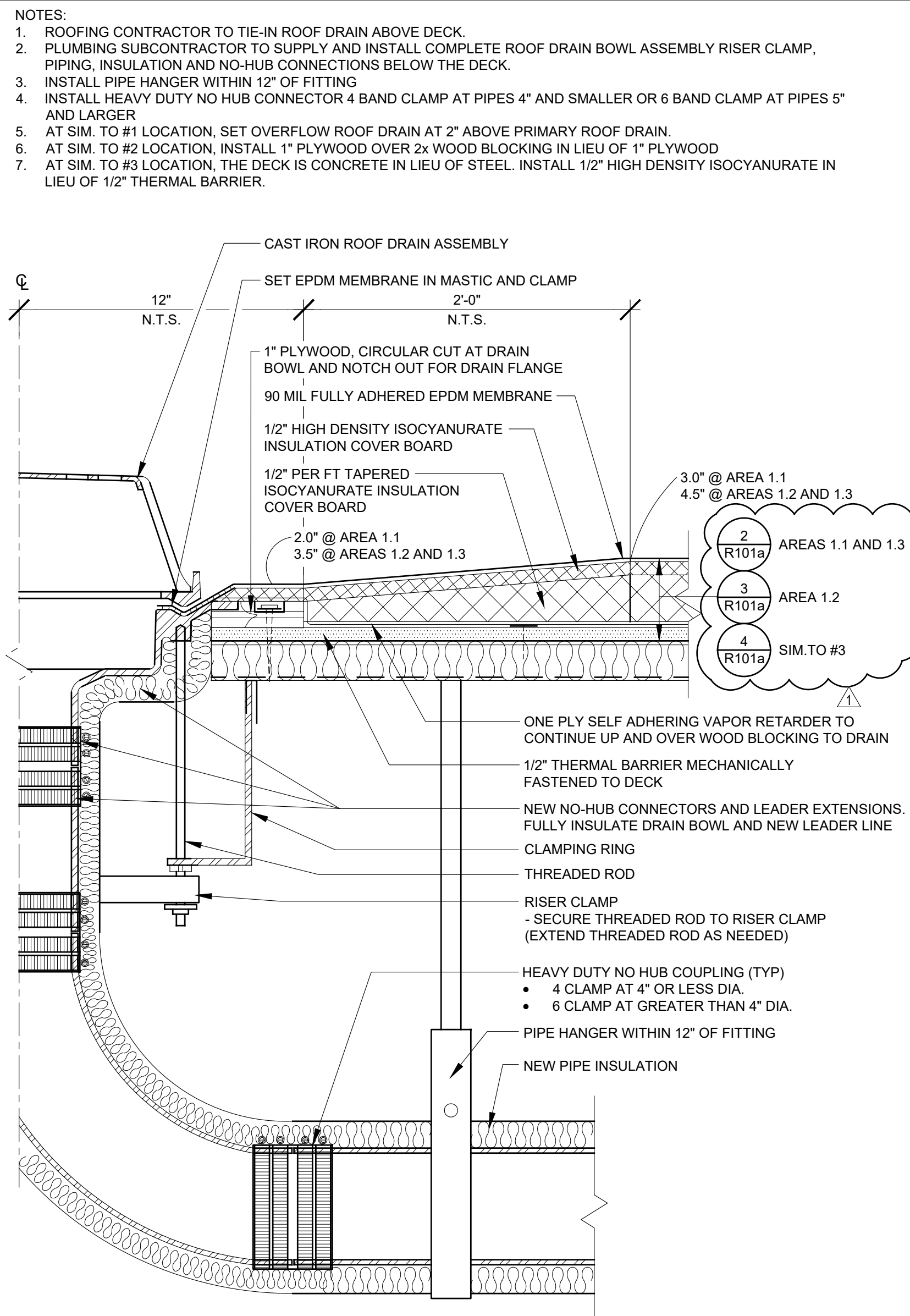
1601 JEFFERSON STREET
ALEXANDRIA, MN 56308

DRAWN BY: KP
CHECKED BY: BFB
PROJ. NO: 215768
DRAWING NO:

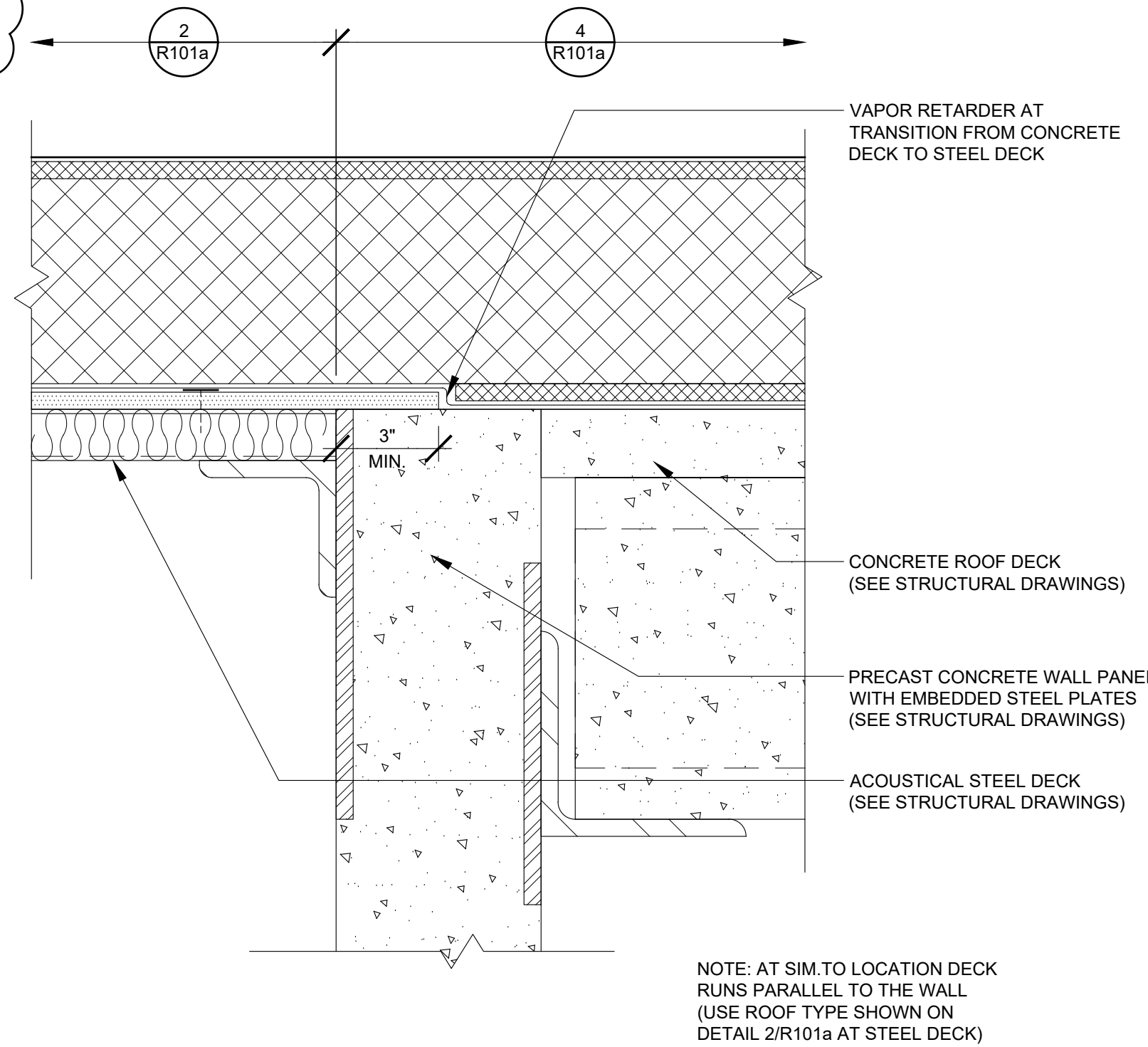
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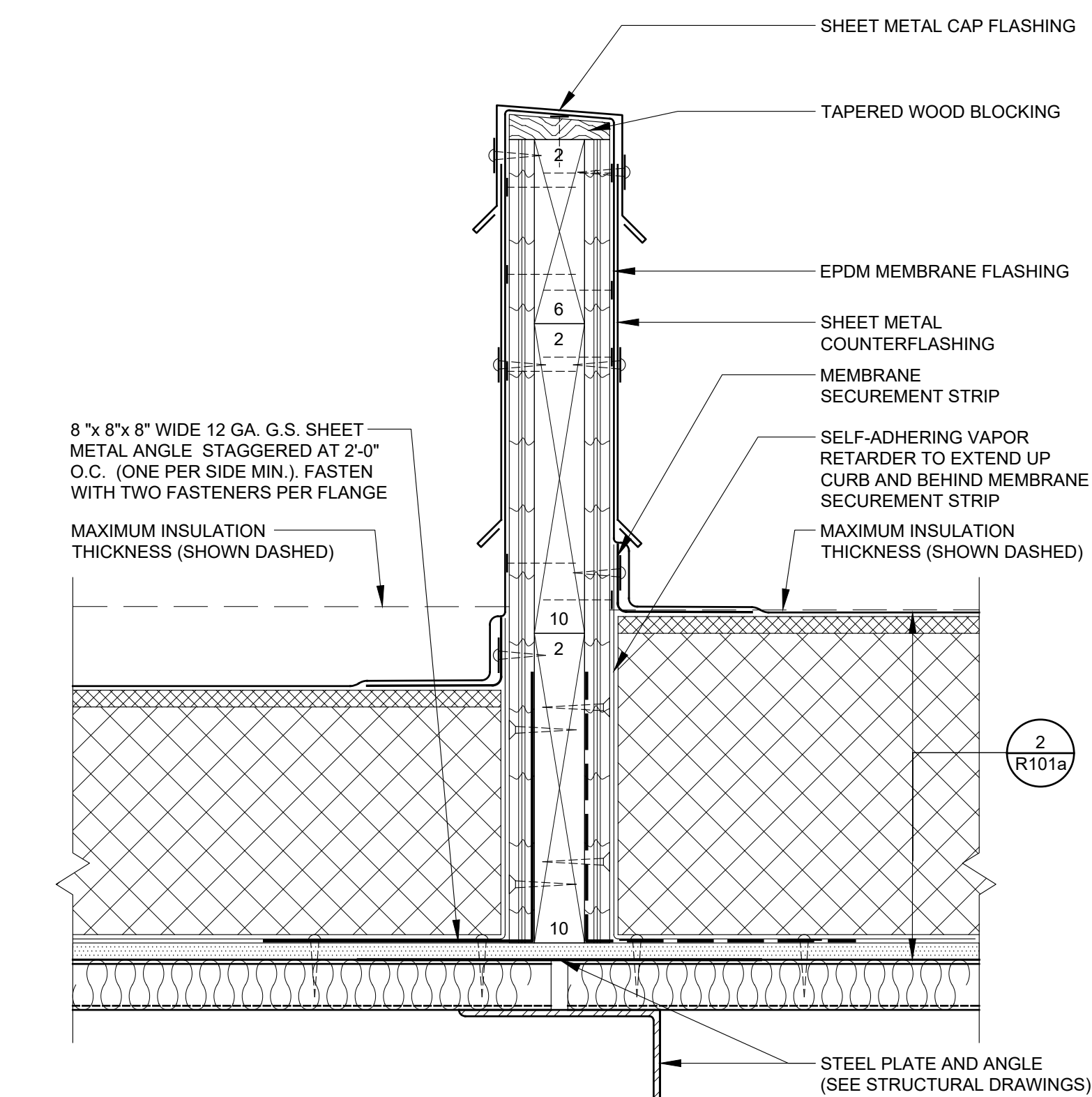
1 PRECAST WALL DETAIL
R502 3' = 1'-0"



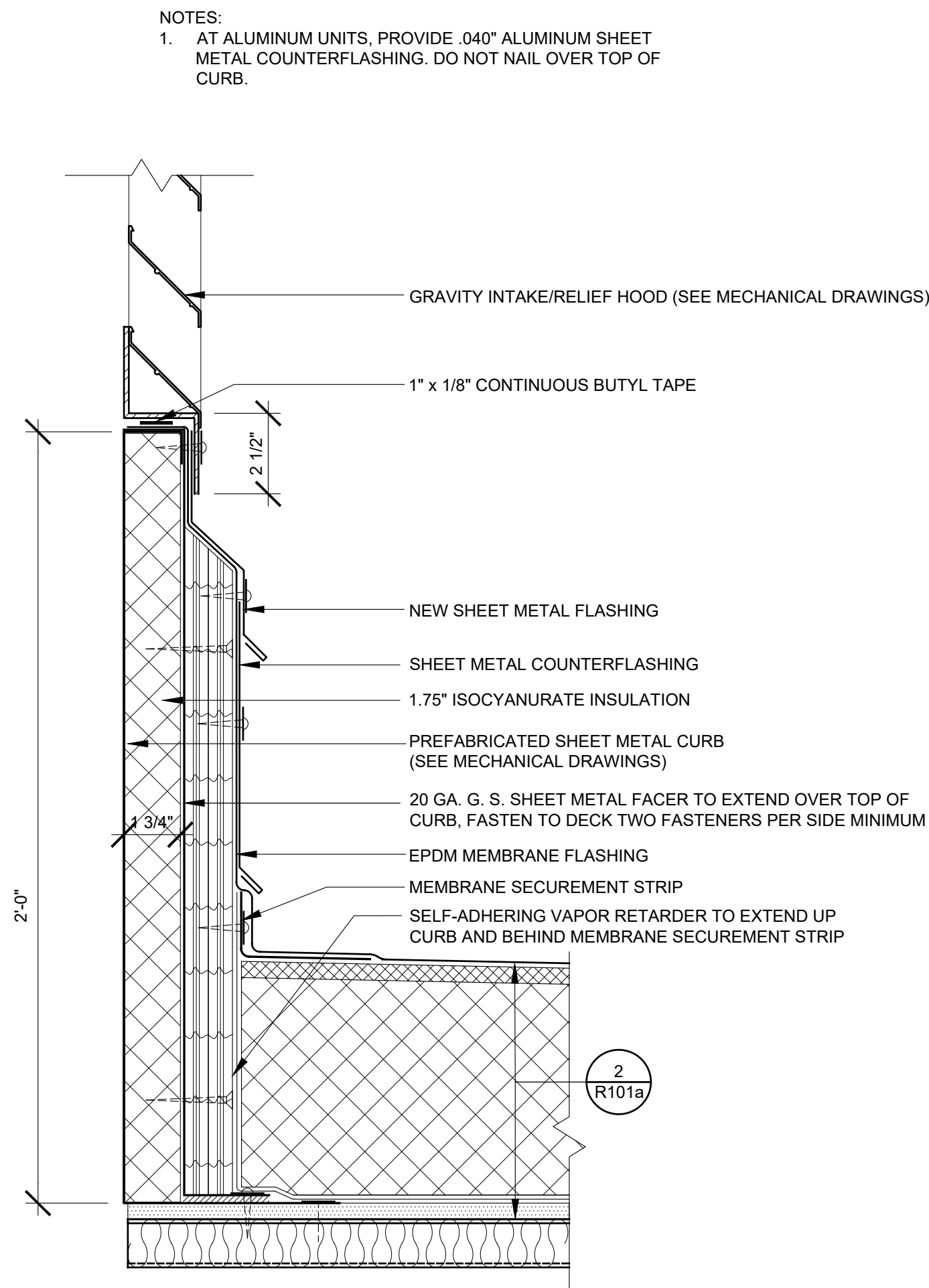
2 ROOF DRAIN / SUMP DETAIL
R502 3' = 1'-0"



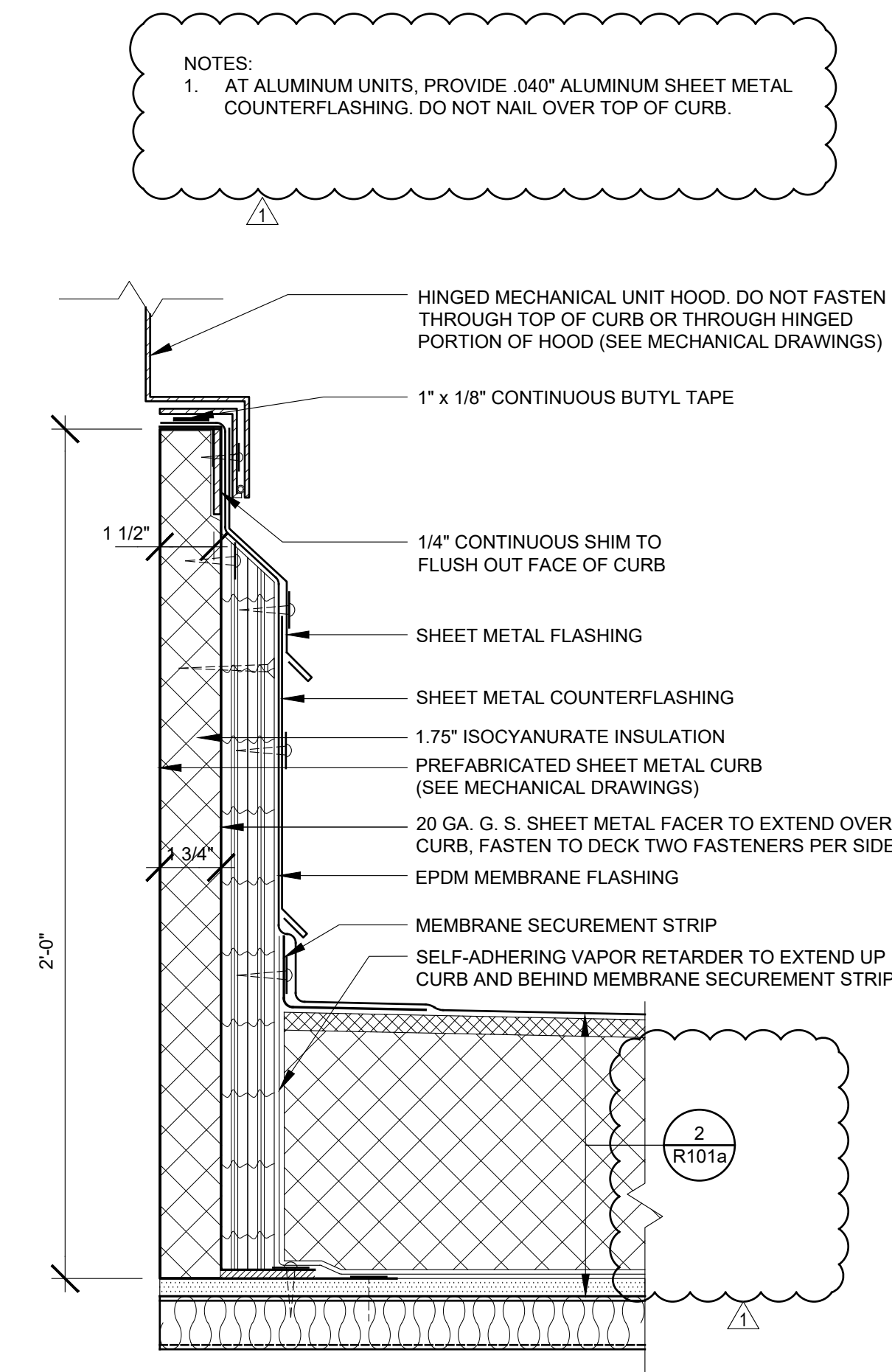
3 ROOF TRANSITION DETAIL
R502 3' = 1'-0"



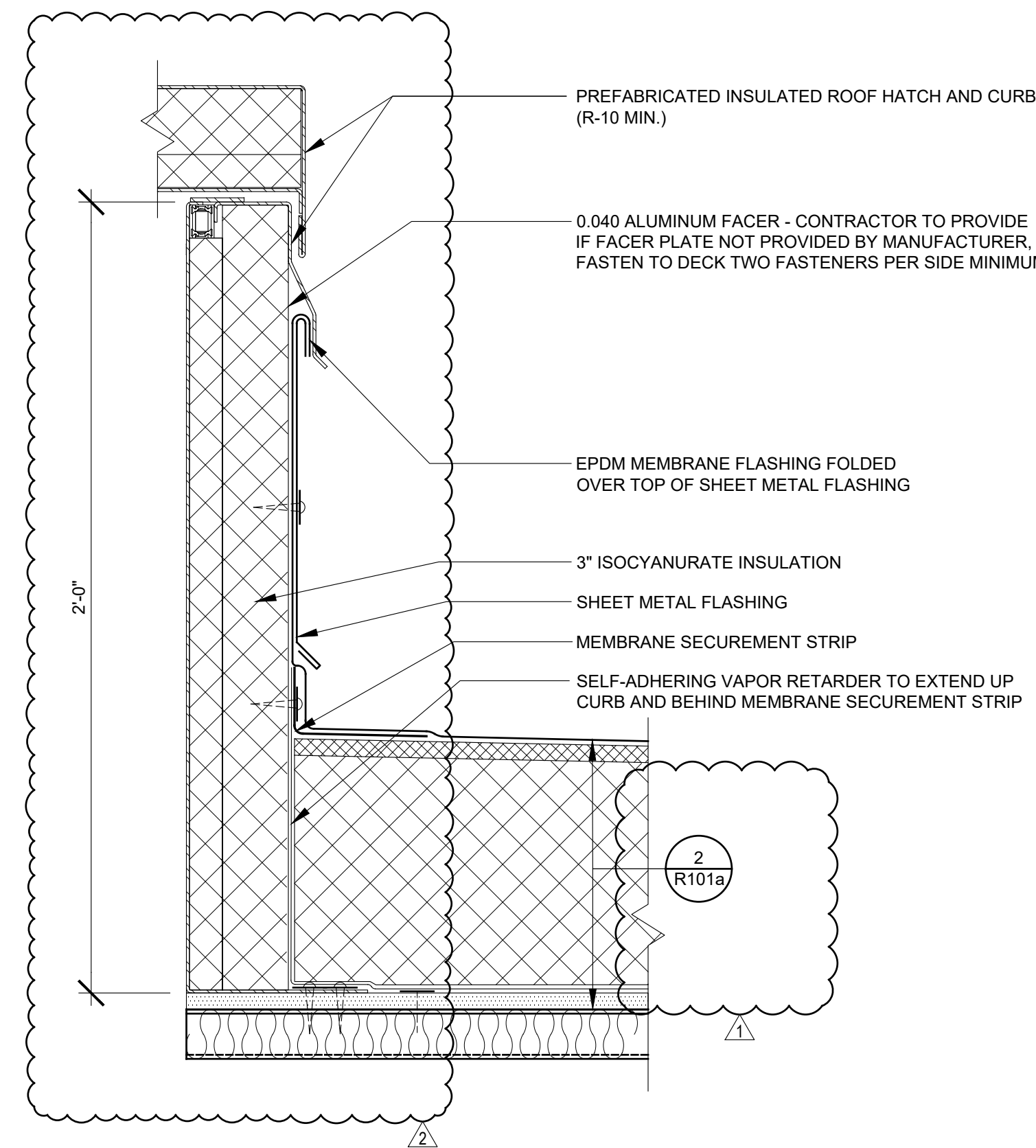
4 CONTROL JOINT DETAIL
R502 3' = 1'-0"



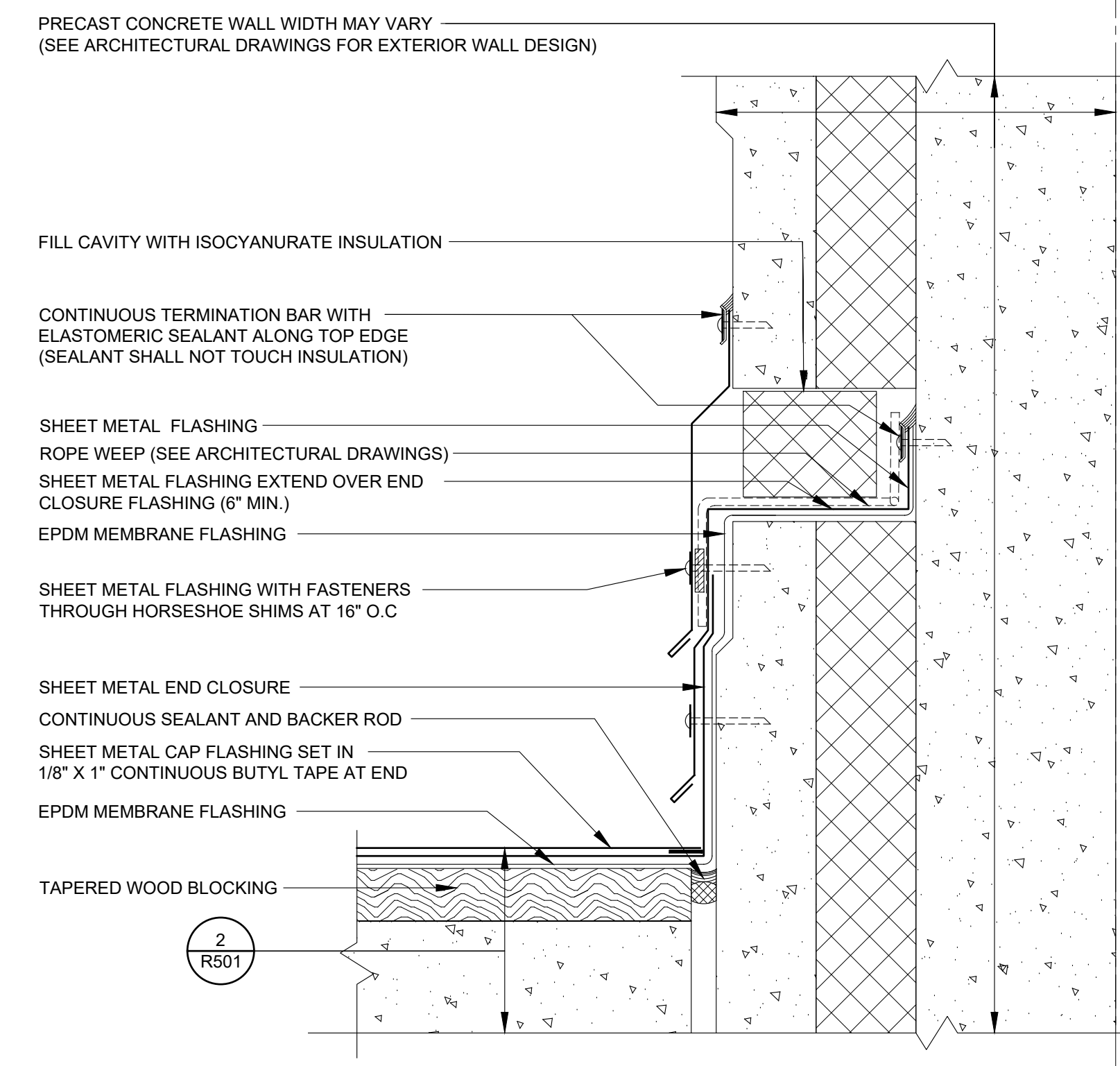
5 MECHANICAL CURB DETAIL AT GRAVITY INTAKE/RELIEF HOOD
R502 3' = 1'-0"



6 EXHAUST FAN CURB DETAIL
R502 3' = 1'-0"



7 ROOF HATCH DETAIL
R502 3' = 1'-0"



8 PARAPET TRANSITION AT PRECAST WALL
R502 3' = 1'-0"



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CLIENT:
**ALEXANDRIA TECH
AND COMM. COLLEGE**
1601 JEFFERSON STREET
ALEXANDRIA, MN 56308

ELECTRICAL CONSULTANT:
HALLBERG ENGINEERING
5051 Miller Trunk Highway
Hermantown, MN 55811

ROOF CONSULTANT:
INSPEC
1000 Parkers Lake Road, Suite 100
Wapato, MN 55391

TECHNOLOGY CONSULTANT:
TRUE NORTH
140 3rd Street South
Stillwater, MN 55082

ACOUSTICS CONSULTANT:
KRA
1917 Coventry Court
Mendota Heights, MN 55118

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02/27/2026	BID PACK #2
12/22/2025	BID PACK #1
NO	DATE
ISSUED FOR	

2	07/14/2026	PR-07
1	03/18/2026	BP2 - ADDENDUM 01
NO	DATE	REVISION

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LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: *Kallmann Behrens*
TYPED OR PRINTED NAME: KALLMANN BEHRENS
DATE: 02/27/2026 REGISTRATION NO.: 60490

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PROJECT NAME:
**ATCC-23
TRANSPORTATION
CENTER**

1601 JEFFERSON STREET
ALEXANDRIA, MN 56308

DRAWING TITLE:
ROOF DETAILS

DRAWN BY: KP
CHECKED BY: BFB
PROJ. NO: 215768
DRAWING NO:

R502

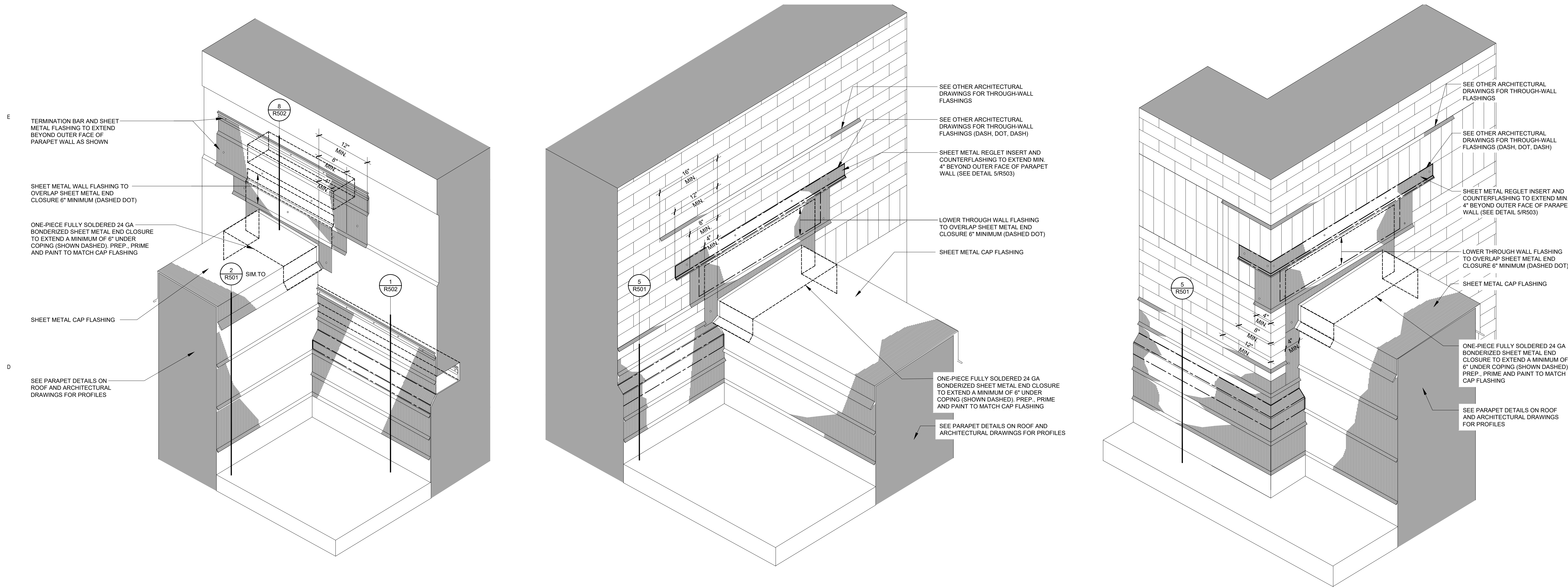
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Mendota Heights, MN 55118

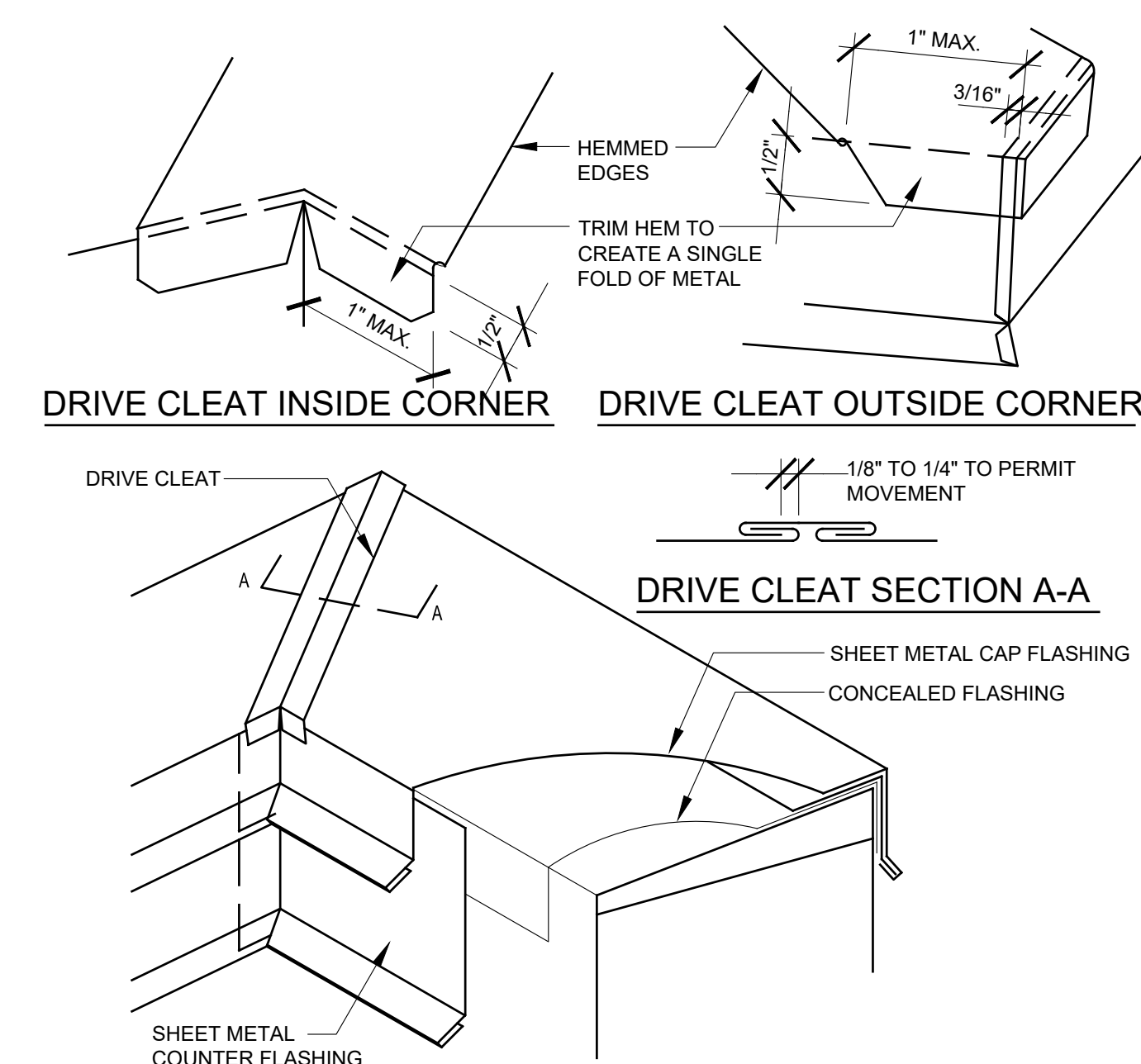
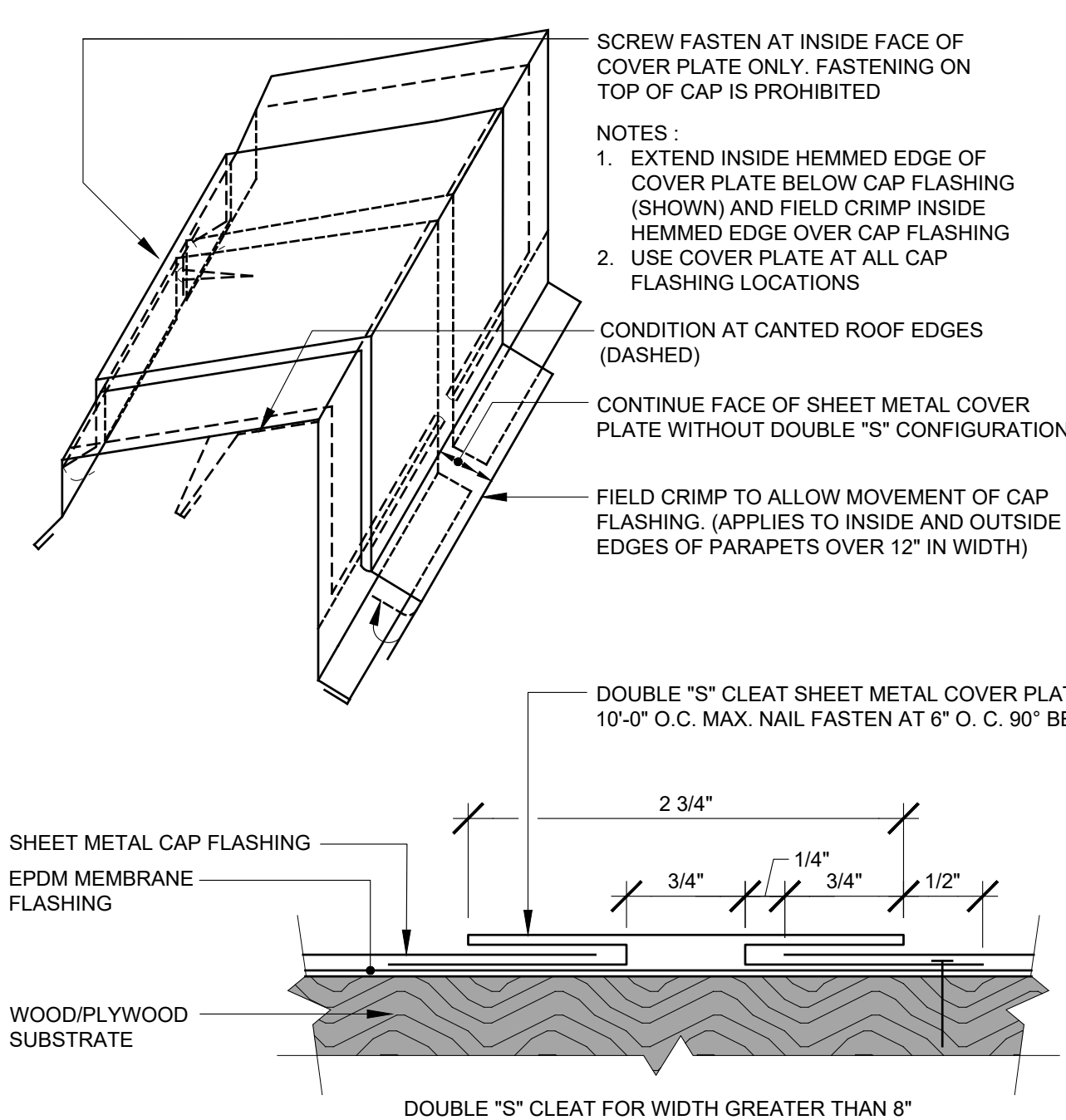
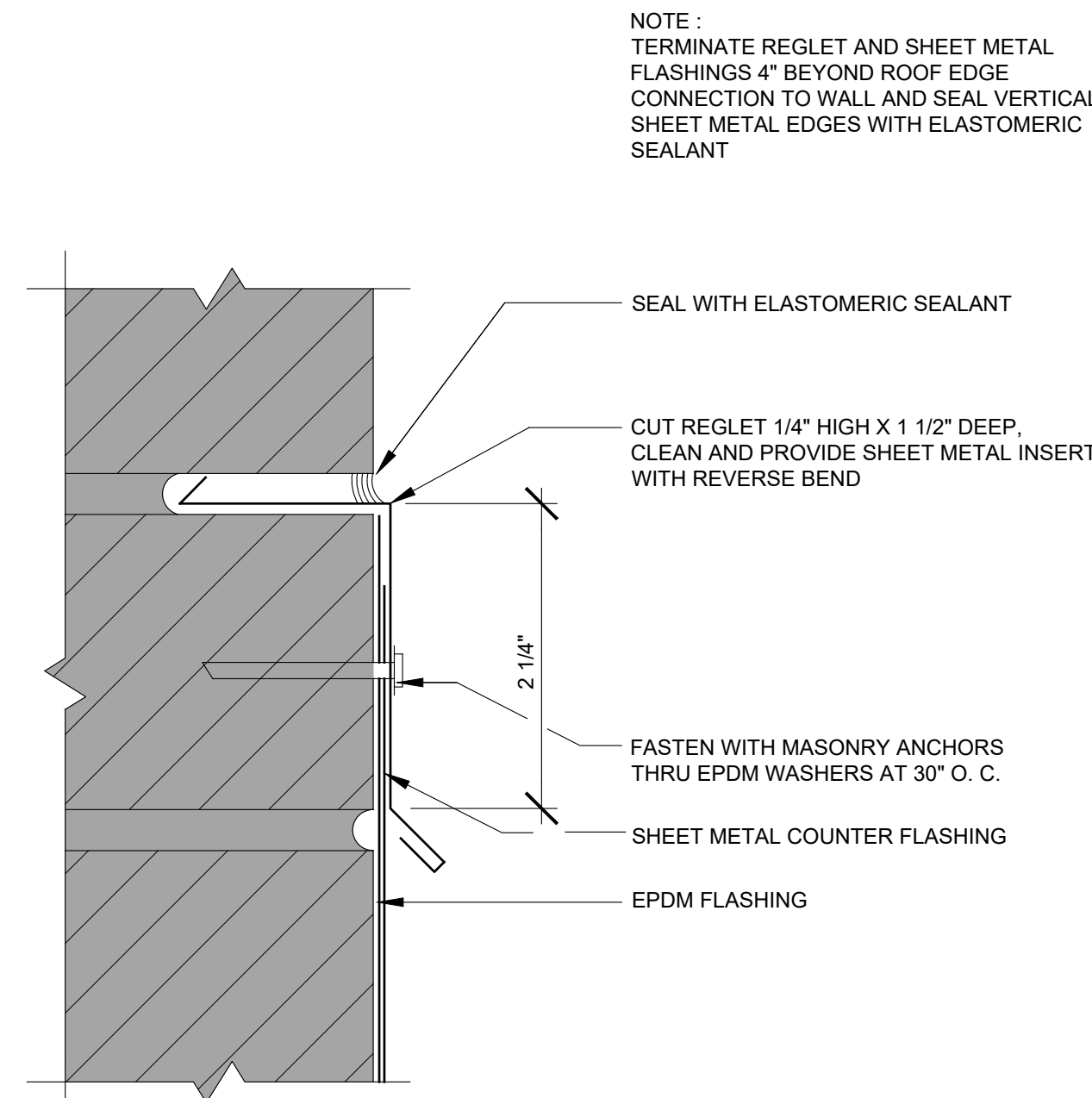
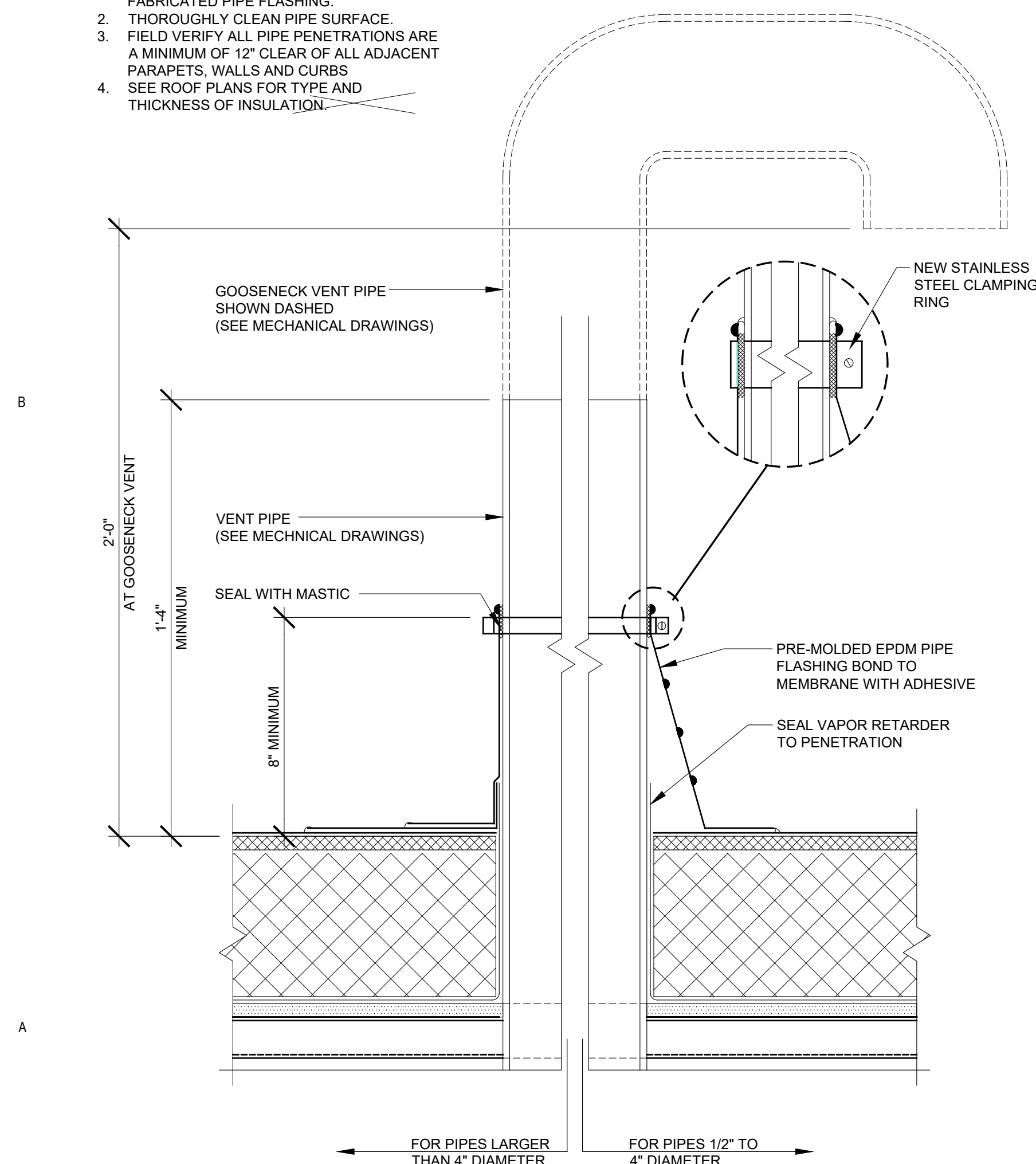


1 END CLOSURE AT PRECAST WALL TO PRECAST WALL AT GRIDS 5 & B.8
R503 NO SCALE
TYPICAL

2 END CLOSURE AT CMU WALL TO CMU WALL AT CORNER OF GRIDS 5 & B
R503 NO SCALE
TYPICAL

3 END CLOSURE AT CMU WALL TO CMU WALL ADJACENT TO GRIDS 2 & B
R503 NO SCALE
TYPICAL

- NOTES:
- IF PRE-FABRICATED PIPE FLASHING CANNOT BE UTILIZED INSTALL TWO-PIECE FIELD FABRICATED PIPE FLASHING.
 - THOROUGHLY CLEAN PIPE SURFACE.
 - FIELD VERIFY ALL PIPE PENETRATIONS ARE A MINIMUM OF 12" CLEAR OF ALL ADJACENT PARAPETS, WALLS AND CURBS.
 - SEE ROOF PLANS FOR TYPE AND THICKNESS OF INSULATION.



4 SANITARY VENT STACK / GOOSENECK VENT STACK / VENT STACK DETAIL
R503 3" = 1'-0"
TYPICAL

5 TYPICAL REGLET DETAIL
R503 3" = 1'-0"
TYPICAL

6 COVER PLATE DETAIL
R503 NO SCALE
TYPICAL

7 ROOF EDGE CORNER DRIVE CLEAT-ISOMETRIC
R503 NO SCALE
TYPICAL

THIS SQUARE APPEARS 12"x12" ON FULL SIZE SHEETS	
02/27/2026	BID PACK #2
12/22/2025	BID PACK #1
NO	DATE
	ISSUED FOR
NO	DATE
	REVISION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A QUALIFIED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: *Kalman Behrens*
TYPED OR PRINTED NAME: KALMAN BEHRENS
DATE: 02/27/2026 REGISTRATION NO. 60490

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PROJECT NAME:
**ATCC-23
TRANSPORTATION
CENTER**

1601 JEFFERSON STREET
ALEXANDRIA, MN 56308

DRAWING TITLE:
ROOF DETAILS

DRAWN BY: KP
CHECKED BY: BFB
PROJ. NO: 215768
DRAWING NO:

R503