



# UNC MEMORIAL HALL

## ROOF REPLACEMENT PROJECT SCO ID NO. 22-25151-01A

**Project Address**  
114 E. CAMERON AVE  
CHAPEL HILL, NC 27514

ENGINEERING CONSULTANT



2401 BRENTWOOD RD,  
SUITE 107  
RALEIGH, NC 27604  
Jeff H. Poe, Jr., PE, RBEC  
Senior Engineer | Facilities  
e: jeff.poe@terracon.com  
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2105 NEWPOINT PLACE  
SUITE 600  
LAWRENCEVILLE, GA 30043  
Michael L. Baker, AIA, NCARB, RRC  
Senior Architect/APR | Facilities Services  
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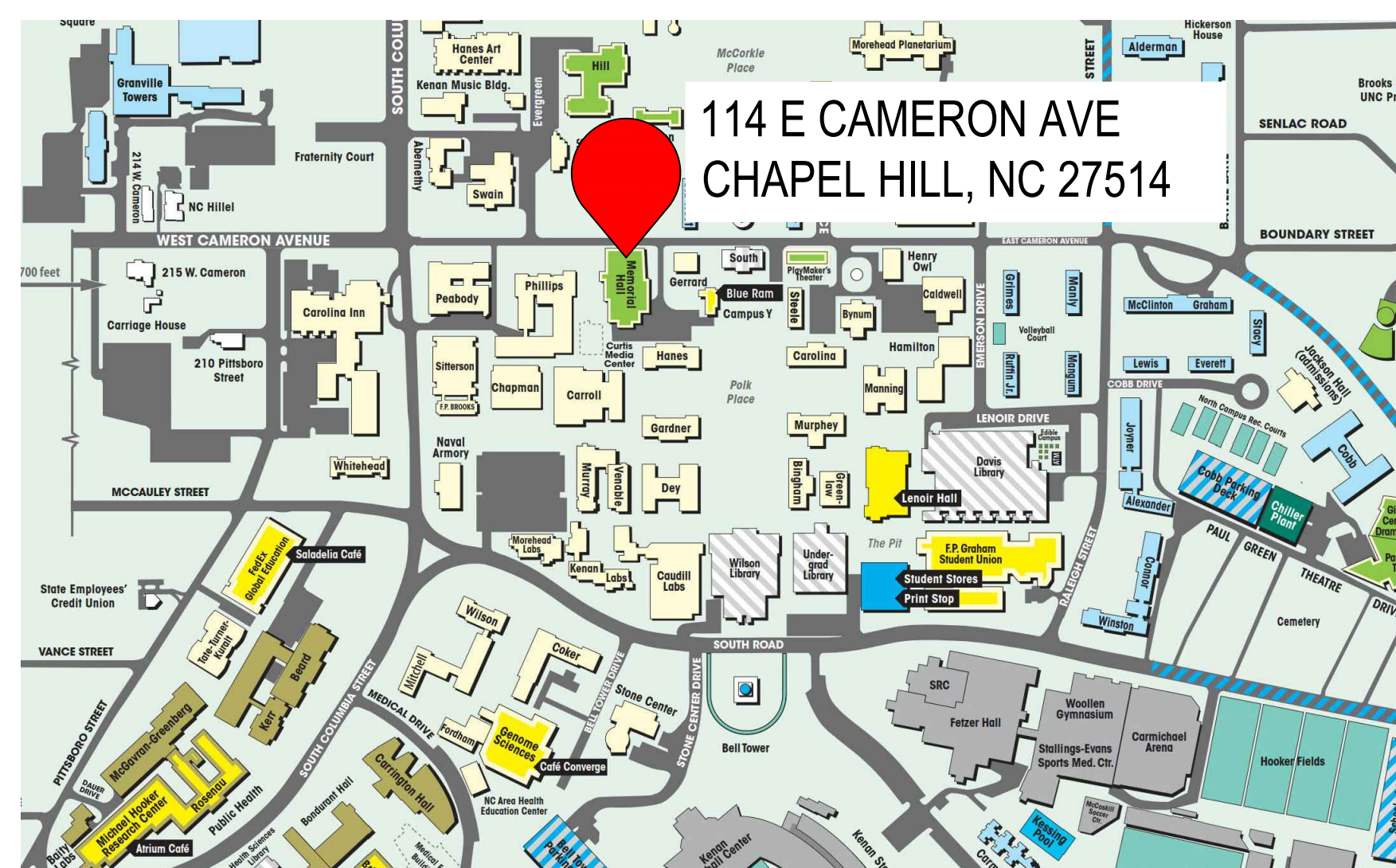


THE UNIVERSITY  
of NORTH CAROLINA  
at CHAPEL HILL

FACILITIES SERVICES  
GILES F. HORNEY BUILDING  
103 AIRPORT DR,  
CAMPUS BOX #1800  
CHAPEL HILL, NC 27599

Andrea Janusz  
Facilities Architect  
UNC Facilities Planning and Design  
e: andrea.janusz@facilities.unc.edu

### PROJECT LOCATION



VICINITY MAP



LOCATION SITE

### SCOPE OF WORK SUMMARY

**PURPOSE OF WORK:**  
**BASE BID:**

A. AREAS 1, 2, AND 7 GENERALLY CONSIST OF THE COMPLETE REMOVAL OF ALL EXISTING ROOFING MEMBRANE, INSULATION, FLASHINGS, METAL WALL PANELS, METAL FLASHING, COPING CAPS AND THE INSTALLATION OF A NEW PVC/KEE MEMBRANE, COVER BOARD, TAPERED (WHERE INDICATED ON PLANS) AND BASE INSULATION, TEMPORARY ROOF MEMBRANE, NAILABLE BASE SHEET (LIGHTWEIGHT ROOF ONLY), GYPSUM UNDERLAYMENT (METAL ROOF ONLY), METAL WALL PANELS, FLASHINGS, METAL FLASHINGS, FLUID APPLIED FLASHINGS, COPING CAPS, NEW DRAIN EXTENSIONS WHERE REQUIRED, AND ALL ASSOCIATED MISCELLANEOUS WORK AS SPECIFIED HEREIN.

B. AREA A GENERALLY CONSISTS OF THE COMPLETE REMOVAL OF ALL EXISTING COATED STANDING SEAM METAL PANELS, ASBESTOS CONTAINING BUILT UP FELT AND ASPHALT BASE SHEET, FLASHINGS, METAL FLASHING, AND THE INSTALLATION OF A NEW STANDING SEAM METAL PANELS, HIGH TEMPERATURE UNDERLAYMENT, PLYWOOD SHEATHING FASTENED TO THE EXISTING LIGHTWEIGHT CONCRETE, FLASHINGS, METAL FLASHINGS, AND ALL ASSOCIATED MISCELLANEOUS WORK AS SPECIFIED HEREIN.

**ALTERNATE 1:**

AREAS 3, 4, 5, 6, 8 AND 9 GENERALLY CONSIST OF THE COMPLETE REMOVAL OF ALL EXISTING ROOFING MEMBRANE, INSULATION, FLASHINGS, METAL FLASHING, COPING CAPS AND THE INSTALLATION OF A NEW PVC/KEE MEMBRANE, COVER BOARD, TAPERED (WHERE INDICATED ON PLANS) AND BASE INSULATION, TEMPORARY ROOF MEMBRANE, NAILABLE BASE SHEET (LIGHTWEIGHT ROOF ONLY), GYPSUM UNDERLAYMENT (METAL ROOF ONLY), FLASHINGS, METAL FLASHINGS, FLUID APPLIED FLASHINGS, COPING CAPS, NEW DRAIN EXTENSIONS WHERE REQUIRED, AND ALL ASSOCIATED MISCELLANEOUS WORK AS SPECIFIED HEREIN.

**ALTERNATE 2:**

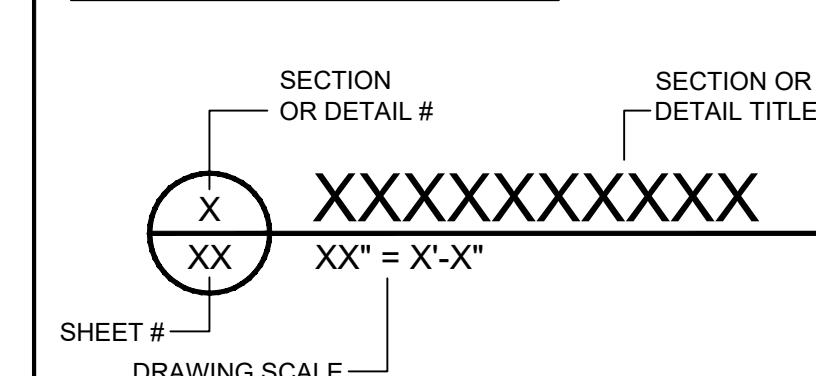
AREA B AND THE INTERNAL GUTTERS, WHICH GENERALLY CONSIST OF THE INSTALLATION OF A NEW FLUID APPLIED COATING SYSTEM, AND ALL ASSOCIATED MISCELLANEOUS WORK AS SPECIFIED HEREIN.

### DRAWING INDEX

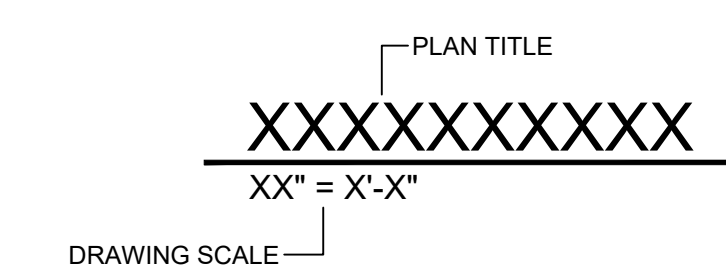
G-101	COVER SHEET
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A-505	SECTION DETAILS
A-506	ROOF DETAILS
A-507	ROOF DETAILS

### SYMBOL LEGEND

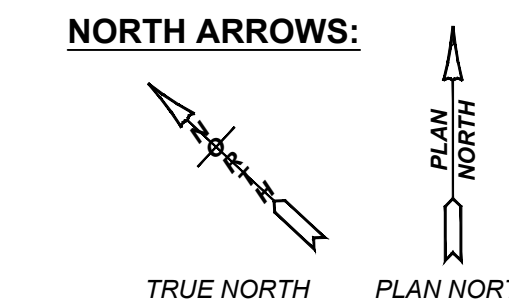
**DETAIL/SECTION VIEW TITLE:**



**PLAN VIEW TITLE:**



**NORTH ARROWS:**



TERRACON PROJECT NUMBER:  
FJ226041

ISSUE DATE:  
02.05.2024

ISSUE FOR:  
PERMITTING/BIDDING

REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
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ENGINEER'S STATE LICENSE SEAL



TITLE SHEET

**COVER SHEET**

SHEET NUMBER

**G-101**

**2018 APPENDIX B  
BUILDING CODE SUMMARY  
FOR ALL COMMERCIAL ROOF PROJECTS  
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**  
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: **UNC - MEMORIAL HALL - ROOF REPLACEMENT**  
 Address: \_\_\_\_\_ Zip Code \_\_\_\_\_  
 Owner/Authorized Agent: **Andrea Janusz** Phone # ( **984** ) **484** - **4668** E-Mail \_\_\_\_\_  
 Owned By:  City/County  Private  State  
 Code Enforcement Jurisdiction:  City  County  State

**CONTACT:** Kevin Loftus, AIA  
 DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL  
 Architectural \_\_\_\_\_ ( ) \_\_\_\_\_  
 Civil \_\_\_\_\_ ( ) \_\_\_\_\_  
 Electrical \_\_\_\_\_ ( ) \_\_\_\_\_  
 Fire Alarm \_\_\_\_\_ ( ) \_\_\_\_\_  
 Plumbing \_\_\_\_\_ ( ) \_\_\_\_\_  
 Mechanical \_\_\_\_\_ ( ) \_\_\_\_\_  
 Sprinkler-Standpipe \_\_\_\_\_ ( ) \_\_\_\_\_  
 Structural \_\_\_\_\_ ( ) \_\_\_\_\_  
 Other **TERRACON** **Jeff H. Poe Jr.** **045268** **(704) 594-8939** **jeff.poe@terracon.com**

**2018 NC CODE FOR:**  Roof Replacement  Roof Recover  Roof Repair  
**CONSTRUCTED:** (date) 1910 \_\_\_\_\_  
**CURRENT OCCUPANCY(S)** (Ch. 3) : **A-1**

**BASIC BUILDING DATA**  
**Construction Type:**  I-A  II-A  III-A  IV  V-A  
 (check all that apply)  I-B  II-B  III-B  V-B  
**Sprinklers:**  No  Partial  Yes  NFPA 13  NFPA 13R  NFPA 13D  
**Standpipes:**  No  Yes Class  I  II  III  Wet  Dry  
**Fire District:**  No  Yes (Primary)

Gross Area (sq. ft.):								
STORES	AREA A	AREA B	AREA C	AREA D	AREA E	AREA F	AREA G	TOTAL
								NO CHANGE TO EXISTING

**FIRE PROTECTION REQUIREMENTS**  
 2018 NC Administrative Code and Policies Appendix B for Roof

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY
Roof Construction, including supporting beams and joists			1
Roof Ceiling Assembly			
Column Supporting Roof			

**STRUCTURAL DESIGN**  
 (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

**DESIGN LOADS:**  
**Importance Factors:** Snow (I<sub>s</sub>) 1.10  
 Seismic (I<sub>e</sub>) 1.25  
**Live Loads:** Roof 20 psf  
**Ground Snow Load:** 15 psf  
**Wind Load:** Ultimate Wind Speed 120 mph (ASCE-7)  
 Exposure Category B

2018 NC Administrative Code and Policies Appendix B for Roof



2401 BRENTWOOD RD. #107  
 RALEIGH, NC 27604  
 PH. (919) 873-2211 | TERRACON.COM  
 TERRACON, NC

ENGINEER STATE LICENSE SEAL



**MEMORIAL HALL ROOF REPLACEMENT PROJECT**  
 SCO ID NO. 22-25151-01A  
**THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**  
 110 E Cameron Ave, Chapel Hill, NC 27514

CODE SHEET

REVISIONS:

NO.	DATE	DESCRIPTION
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TERRACON PROJECT NUMBER:  
**FJ226041**

DESIGNED BY: **JHP**

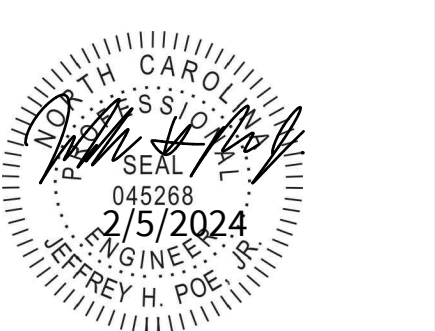
DRAWN BY: **DSK**

APPROVED BY: **MLB**

ISSUE FOR:  
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 SCHEMATIC DESIGN DOCUMENTS NOT FOR CONSTRUCTION  
 DESIGN DEVELOPMENT DOCUMENTS NOT FOR CONSTRUCTION  
 PERMITTING / BIDDING  
 CONSTRUCTION DOCUMENTS  
 ADDENDUM SUBMITTAL  
 RECORD DRAWINGS

ISSUE DATE:  
**02.05.2024**

SHEET NUMBER  
**G-102**



**MEMORIAL HALL ROOF REPLACEMENT PROJECT**  
 SCO ID NO. 22-25151-01A  
**THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**  
 110 E Cameron Ave, Chapel Hill, NC 27514  
 ROOF PLAN

LEGEND	
RD ○	ROOF DRAIN
ORD ○	OVERFLOW ROOF DRAIN
SV ○	SANITARY VENT
RV ○	ROOF VENT
PP ○	PIPE PENETRATION
EF	EXHAUST FAN
MS	MINI SPLIT AIR CONDITIONER
OS =	OVERFLOW SCUPPER
■	PITCH PAN
RH	ROOF HATCH
⊕	LIGHTNING PROTECTION PENETRATION
→	STRUCTURAL SLOPE ARROW
→	TAPERED INSULATION
- - -	LIGHTNING PROTECTION
⊕	SURFACE MOUNTED HVAC UNIT
⊕	FALL PROTECTION ANCHOR AND CABLE
⊕	SURFACE BALLASTED GUARD RAIL

- GENERAL NOTES:**
- ALL NEW CRICKET AND SADDLES ARE TO HAVE A MINIMUM FINAL SLOPE OF 1/4-INCH PER FOOT UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - CONTRACTOR TO PROVIDE A MINIMUM FLASHING HEIGHT OF 8-INCHES AT ALL ROOFTOP EQUIPMENT, SANITARY VENTS, STACKS, CONDUIT PENETRATIONS, PIPE PENETRATIONS, CURBS, BASE FLASHINGS, ETC. FROM THE NEW FINISHED ROOF SURFACE. CONTRACTOR TO INCLUDE ALL ASSOCIATED COSTS FOR CRANE, MODIFICATION TO ELECTRICAL, MECHANICAL AND PLUMBING SYSTEMS AS REQUIRED TO FACILITATE THIS WORK.
  - CONTRACTOR TO PROVIDE NEW METAL SPLASH PANS ON NEW WALK PADS AT ALL NEW AND EXISTING DOWNSPOUTS DISCHARGING ONTO THE ROOF SURFACE.
  - ALL EXISTING ROOF-TOP GAS, CONDENSATE, ELECTRICAL LINES, ETC. ARE TO REMAIN, BE PROTECTED, TEMPORARILY SUPPORTED DURING WORK, CLEAN OFF ALL STAINS AND REINSTALLED AS ILLUSTRATED ON THE ROOF PLAN.
  - ALL CONDENSATE LINES ARE TO BE READJUSTED TO DISCHARGE TO THE NEAREST ROOF DRAIN OR GUTTER AS ILLUSTRATED ON THE ROOF PLAN.
  - NEW WALK PADS ARE TO BE INSTALLED UNDER ALL EQUIPMENT LOCATED ON THE SURFACE OF THE ROOF.
  - LIGHTNING PROTECTION COMPONENTS ARE TO BE RELOCATED AS NECESSARY TO COMPLETE ROOF REPLACEMENT OPERATIONS. LIGHTNING PROTECTION COMPONENTS ARE TO BE REINSTALLED IN COMPLIANCE WITH NFPA 780. SHOULD REPLACEMENT COMPONENTS BE REQUIRED, CONTRACTOR IS TO NOTIFY OWNER AND CONSULTANT.
  - FOLLOWING INSTALLATION, THE LIGHTNING PROTECTION IS TO BE RE-CERTIFIED PER THE UL MASTER LABEL FOR LIGHTNING PROTECTION SYSTEMS.
  - ALL NEW ROOF AREAS ARE TO BE PROTECTED FROM DAMAGE, STAINING, DEBRIS, ETC. UPON COMPLETION OF EACH ROOF AREA.

REVISIONS:

NO.	DATE	DESCRIPTION
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TERRACON PROJECT NUMBER:  
FJ226041

DESIGNED BY: JHP

DRAWN BY: DSK

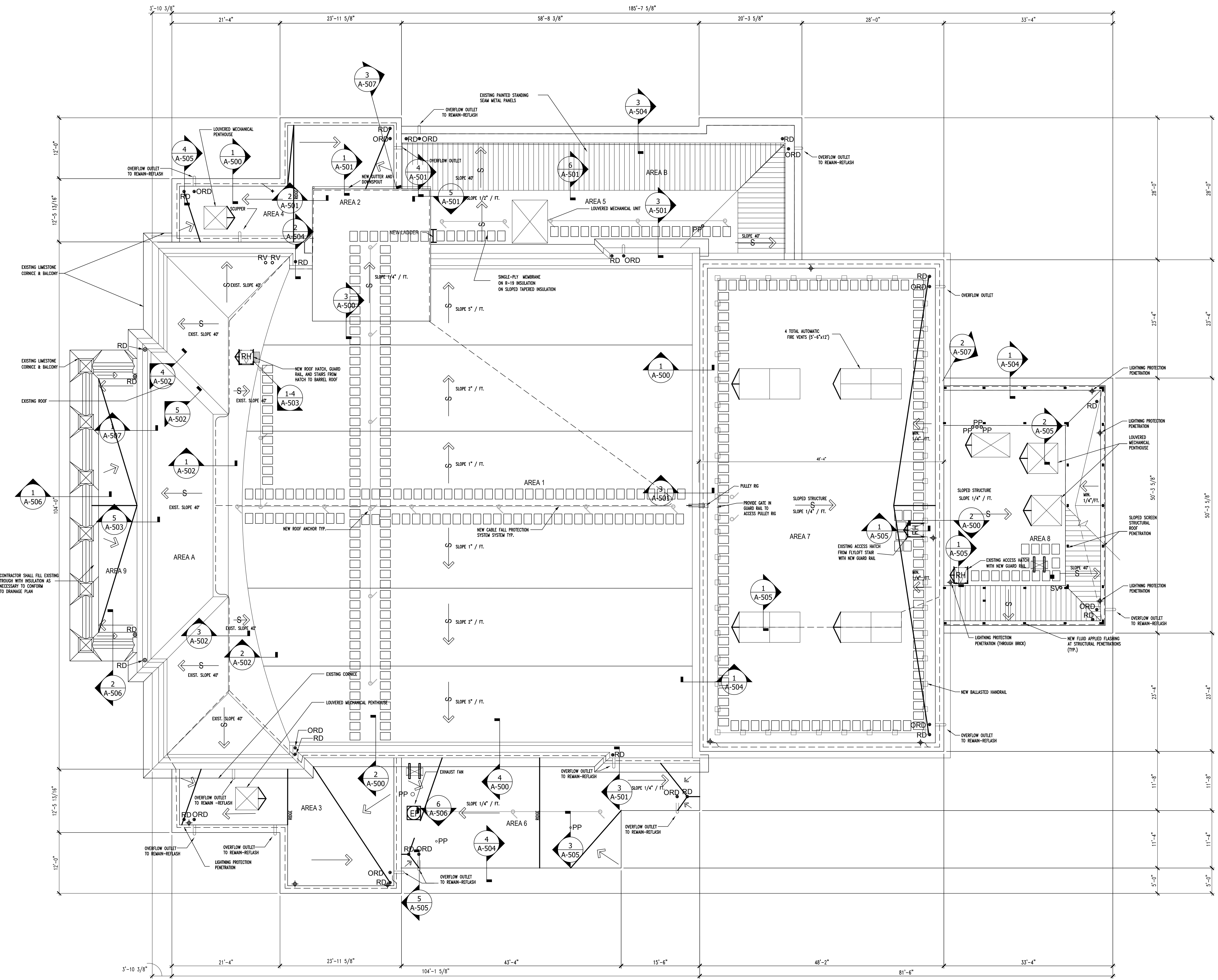
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  - DESIGN DEVELOPMENT DOCUMENTS NOT FOR CONSTRUCTION
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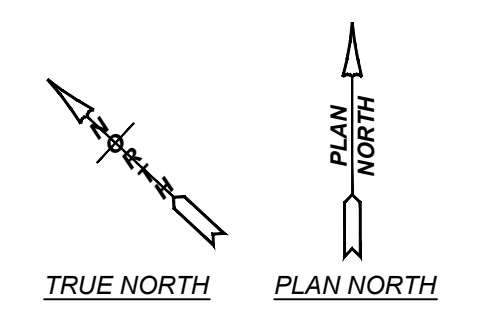
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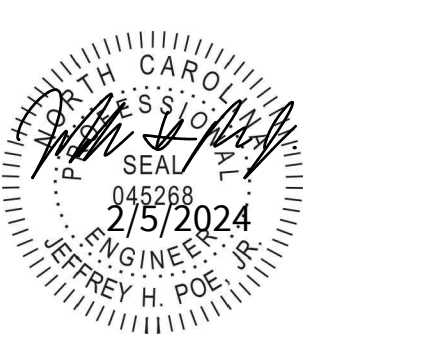
**A-101**



**ROOF PLAN**

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





MEMORIAL HALL ROOF REPLACEMENT PROJECT  
SCO ID NO. 22-25151-01A  
**THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**  
110 E Cameron Ave, Chapel Hill, NC 27514

WIND ZONE PLAN

ASCE 7-10

ULTIMATE UPLIFT PRESSURES (LRFD):

AREA 7:

ZONE 1: 46 PSF  
ZONE 2: 73 PSF WITH 12' PERIMETER  
ZONE 3: 99 PSF 12' WIDE CORNER WITH 24' LEGS

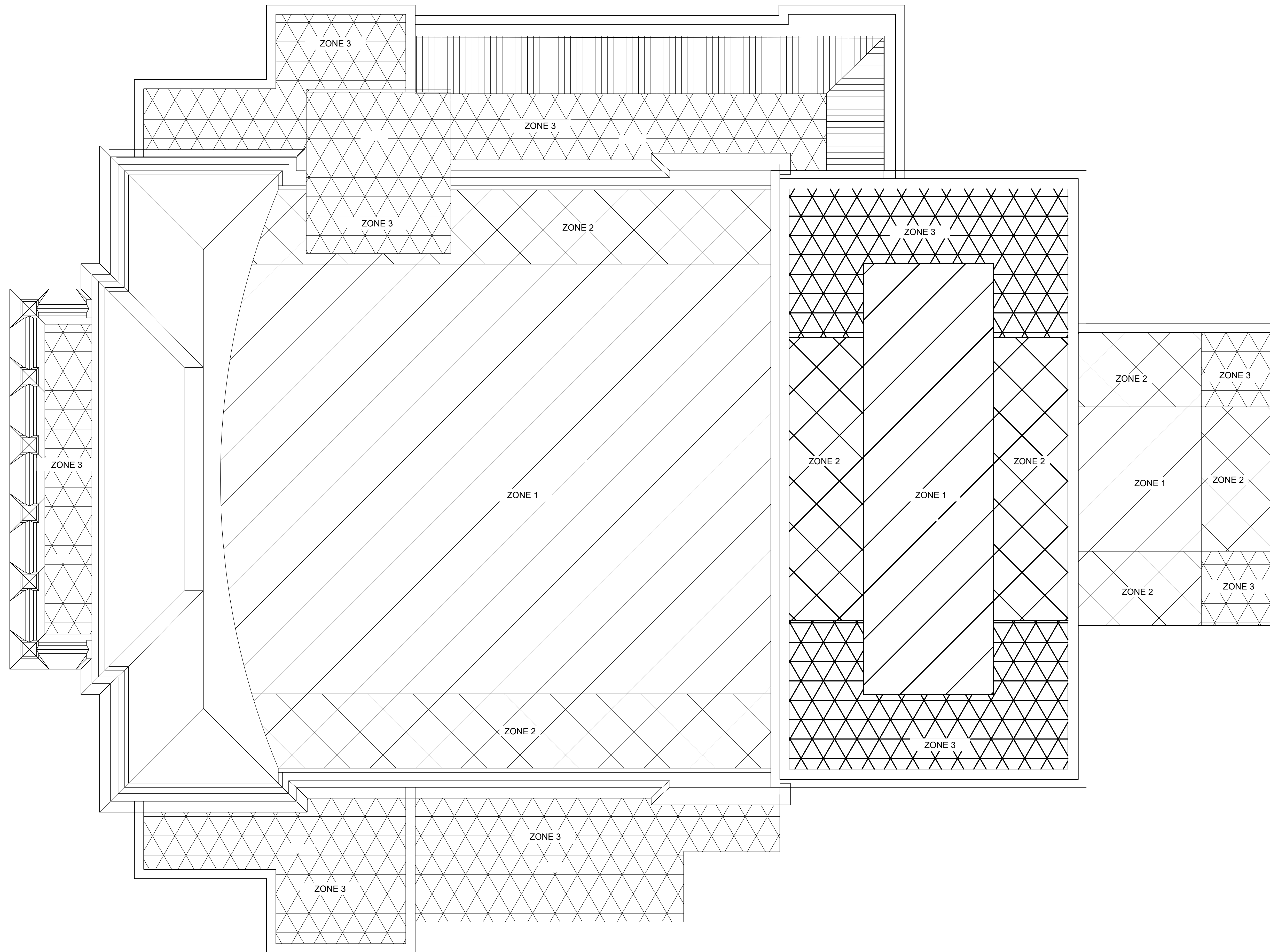
AREA 1, 2, 3, 4, 5, 6, 8, 9:

ZONE 1: 30 PSF  
ZONE 2: 50 PSF WITH 12' PERIMETER  
ZONE 3: 76 PSF WITH 12'X12' CORNERS

AREA A:

ZONE 3: 35 PSF (ENTIRE AREA)

LEGEND	
	ZONE 1
	ZONE 2
	ZONE 3



REVISIONS:

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TERRACON PROJECT NUMBER:

FJ226041

DESIGNED BY:

JHP

DRAWN BY:

DSK

APPROVED BY:

MLB

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- CONSTRUCTION DOCUMENTS
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- RECORD DRAWINGS

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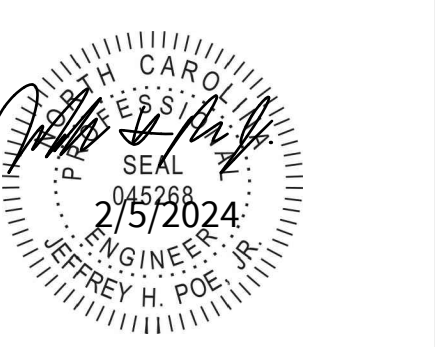
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SHEET NUMBER

**A-102**

**WIND ZONE PLAN**

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



MEMORIAL HALL ROOF REPLACEMENT PROJECT  
SCO ID NO. 22-25151-01A  
**THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**  
110 E Cameron Ave, Chapel Hill, NC 27514  
ORIGINAL STRUCTURAL DRAWING S-5

REVISIONS:

NO.	DATE	DESCRIPTION
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TERRACON PROJECT NUMBER:  
FJ226041

DESIGNED BY: JHP

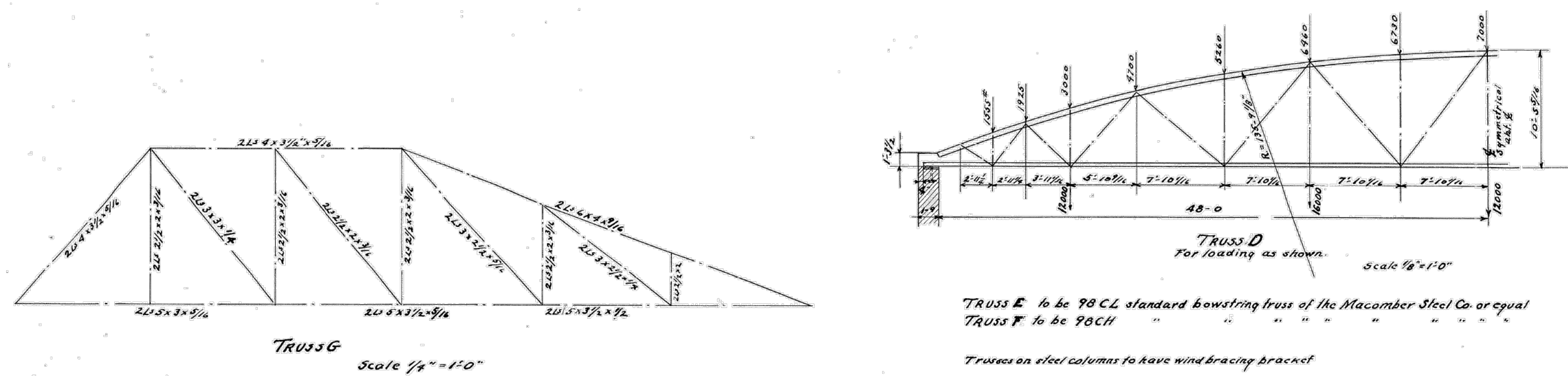
DRAWN BY: DSK

APPROVED BY: MLB

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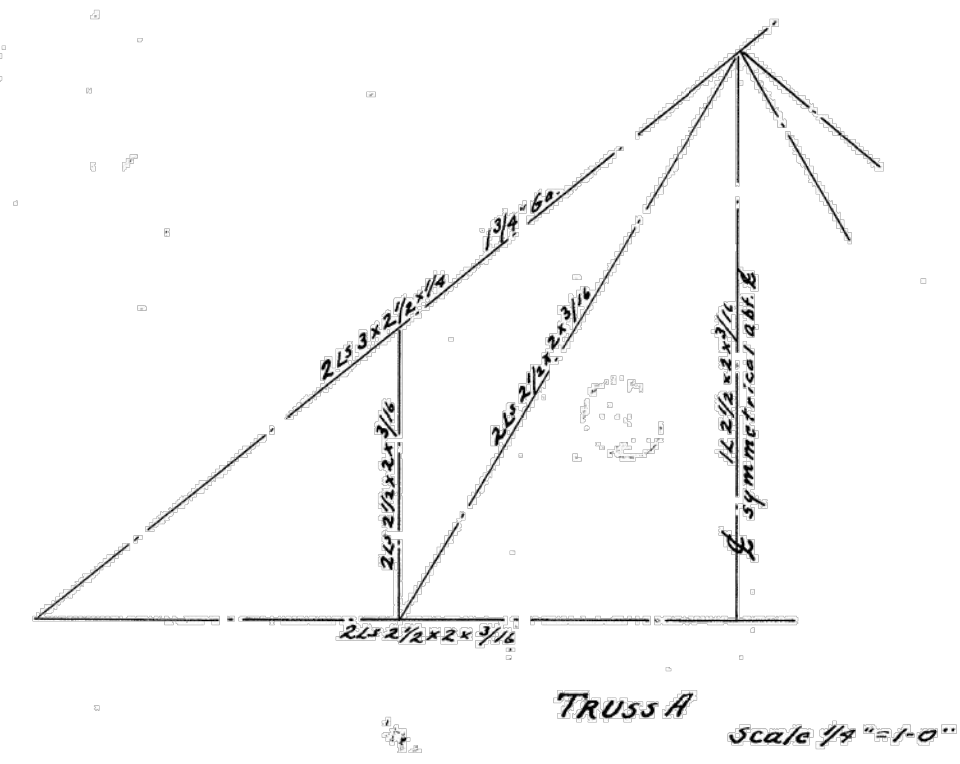
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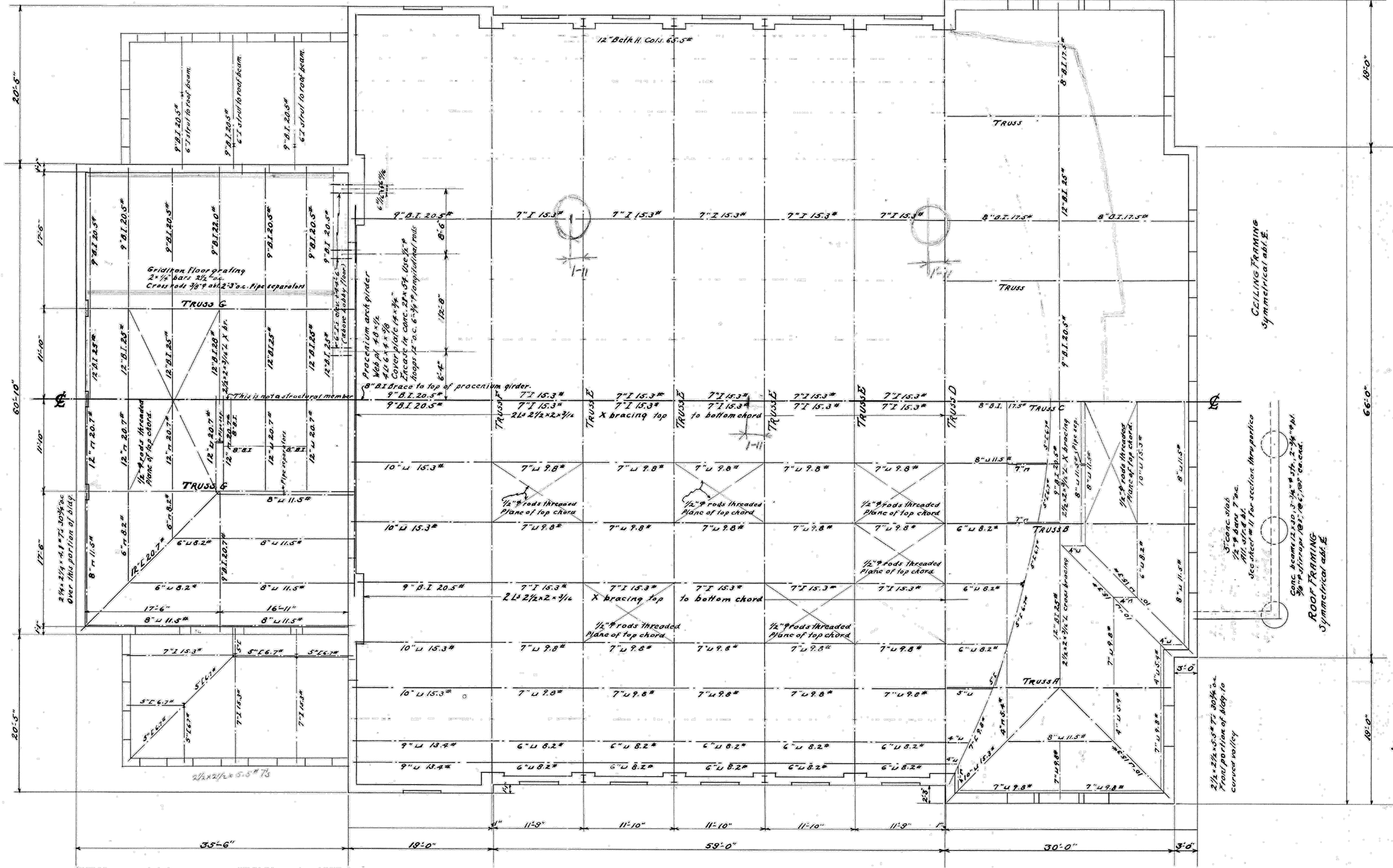


Trusses on steel columns to have wind bracing bracket

Ceiling framing over stage (Grid lines floor beams, tops of bottom chord of bottom of bottom chord).  
Elsewhere ceiling beams may frame on top of outstanding top of bottom chord.  
All roof trusses to be fabricated in accordance with the standard specifications of the American Institute of Steel Construction except that rivets in shear shall be figured at 4000 per sq. in. and bearing at 24000 per sq. in. Develop full stress of members.



**SUSPENDED CEILING.**  
2" D. Rod over 24" oc. Ranges not over 5'-0" o.c. 1/4" D. Rod over 18" o.c. To the 3/4" D. attach 3/8" dia. 3/8" x 1/4" A/B. All suspension ceiling work to be cut wired, level and in every way first class.



Over curved truss area of bldg. (from proscenium wall to curved valley) sheet rock pyrofill roof is to be used. Sub purlins for this portion to be 12" x 12" purlins furnished by U.S.G. Co. Elsewhere pyrobar slabs are to be used as specified where pyrobar slabs are used, fabricator furnish 2" x 2" x 3/4" at bottom of T.

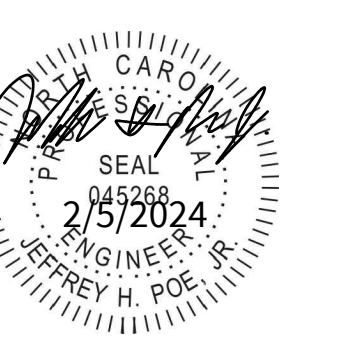
FOR REFERENCE ONLY

DATE APR. 26, 20	ATWOOD & NASH INC., ARCHITECTS & ENGINEERS CHAPEL HILL, N.C.
REVISION 6/17/20	
7/21/20	
<b>NEW AUDITORIUM</b> UNIVERSITY OF N.C. CHAPEL HILL, N.C.	
<b>ROOF &amp; CEILING FRAMING PLANS</b>	
DRAWN JOB227	TRACED ACC. 4178
CHECKED	SHLET S-5

APPROVED: *T. C. Atwood*  
ENGINEER

ROOF & CEILING FRAMING PLANS  
SCALE 1/8" = 1'-0"

D.C. Schuffler  
STRUCTURAL ENGINEER



MEMORIAL HALL ROOF REPLACEMENT PROJECT  
SCO ID NO. 22-25151-01A

**THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**

110 E Cameron Ave, Chapel Hill, NC 27514

ORIGINAL STRUCTURAL DRAWING S-6

REVISIONS:

NO.	DATE	DESCRIPTION

TERRACON PROJECT NUMBER:

FJ226041

DESIGNED BY: JHP

DRAWN BY: DSK

APPROVED BY: MLB

ISSUE FOR:

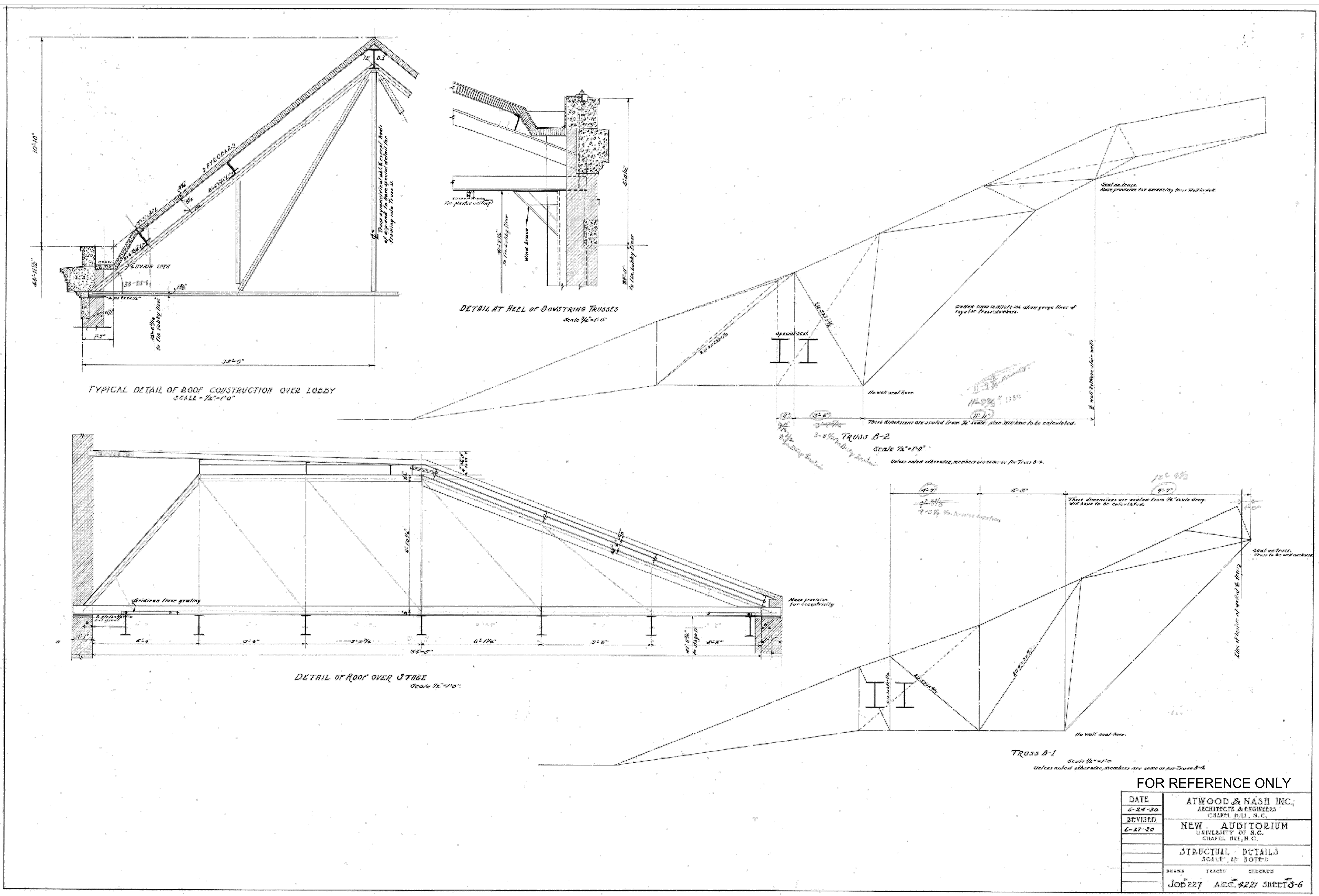
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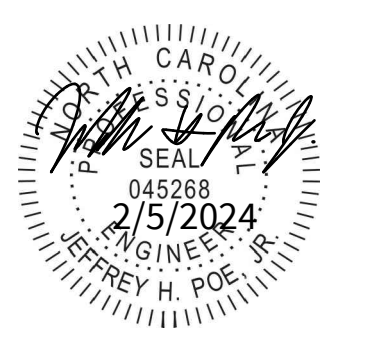
A-104



**ORIGINAL STRUCTURAL DRAWING S-6**

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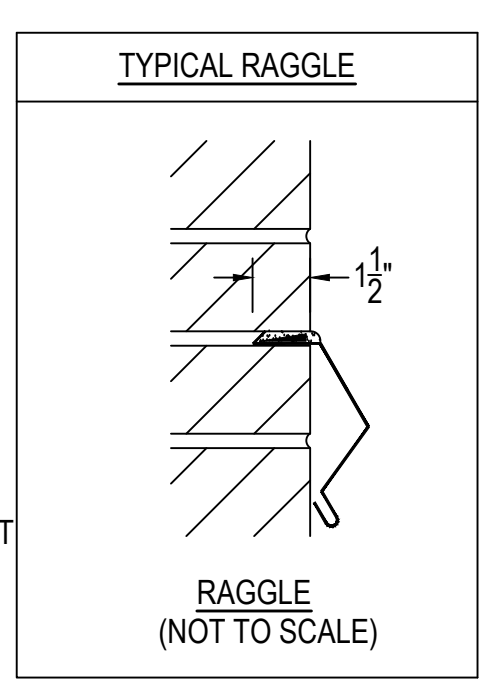
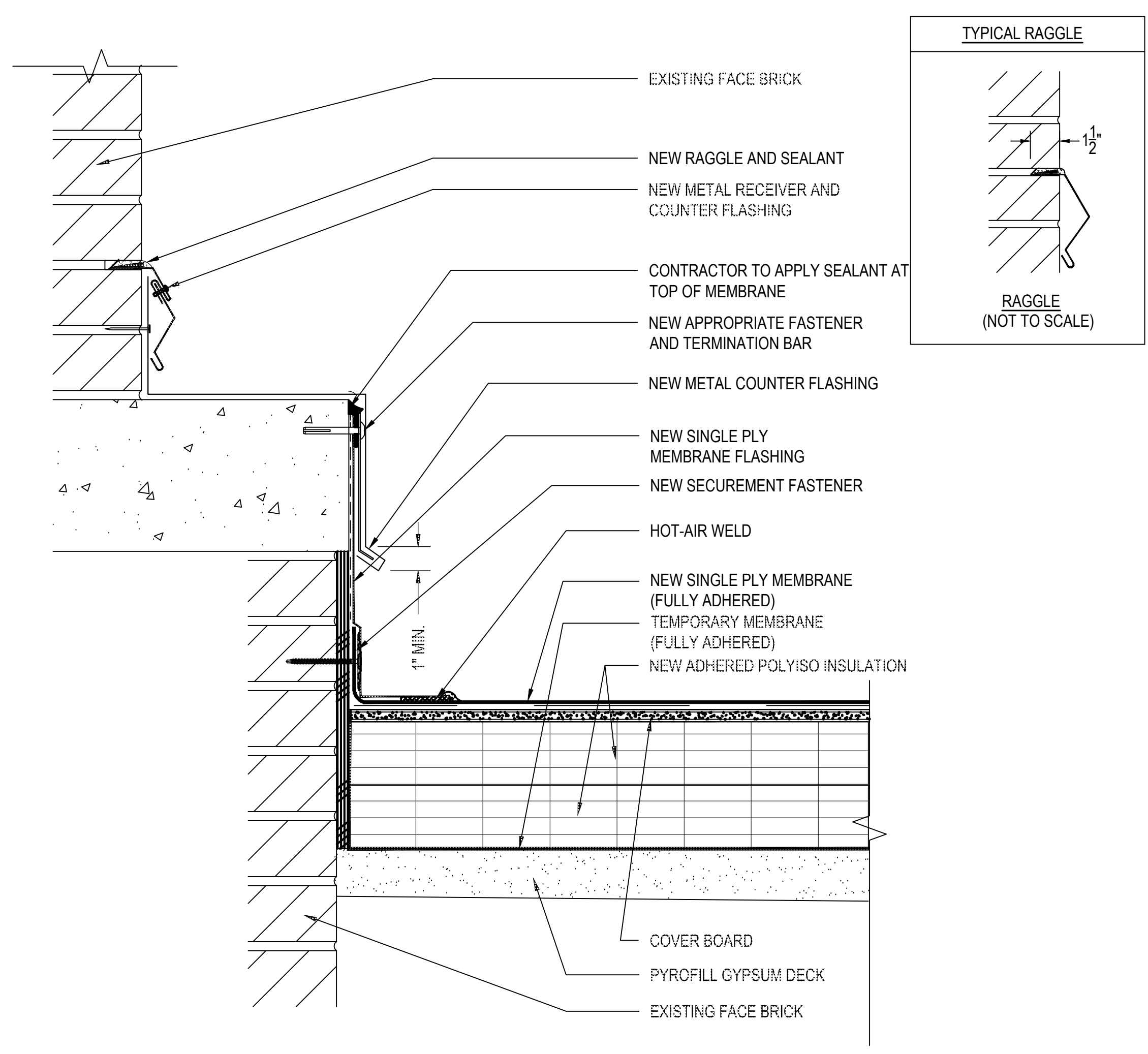
FOR REFERENCE ONLY			
DATE	BY	REVISIONS	DESCRIPTION
6-24-20			ATWOOD & NASH INC., ARCHITECTS & ENGINEERS, CHAPEL HILL, N.C.
6-27-20			NEW AUDITORIUM, UNIVERSITY OF N.C., CHAPEL HILL, N.C.
			STRUCTURAL DETAILS, SCALE AS NOTED
			DRAWN: TRACED: CHECKED:
			JOB 227 ACC 422 SHEET S-6



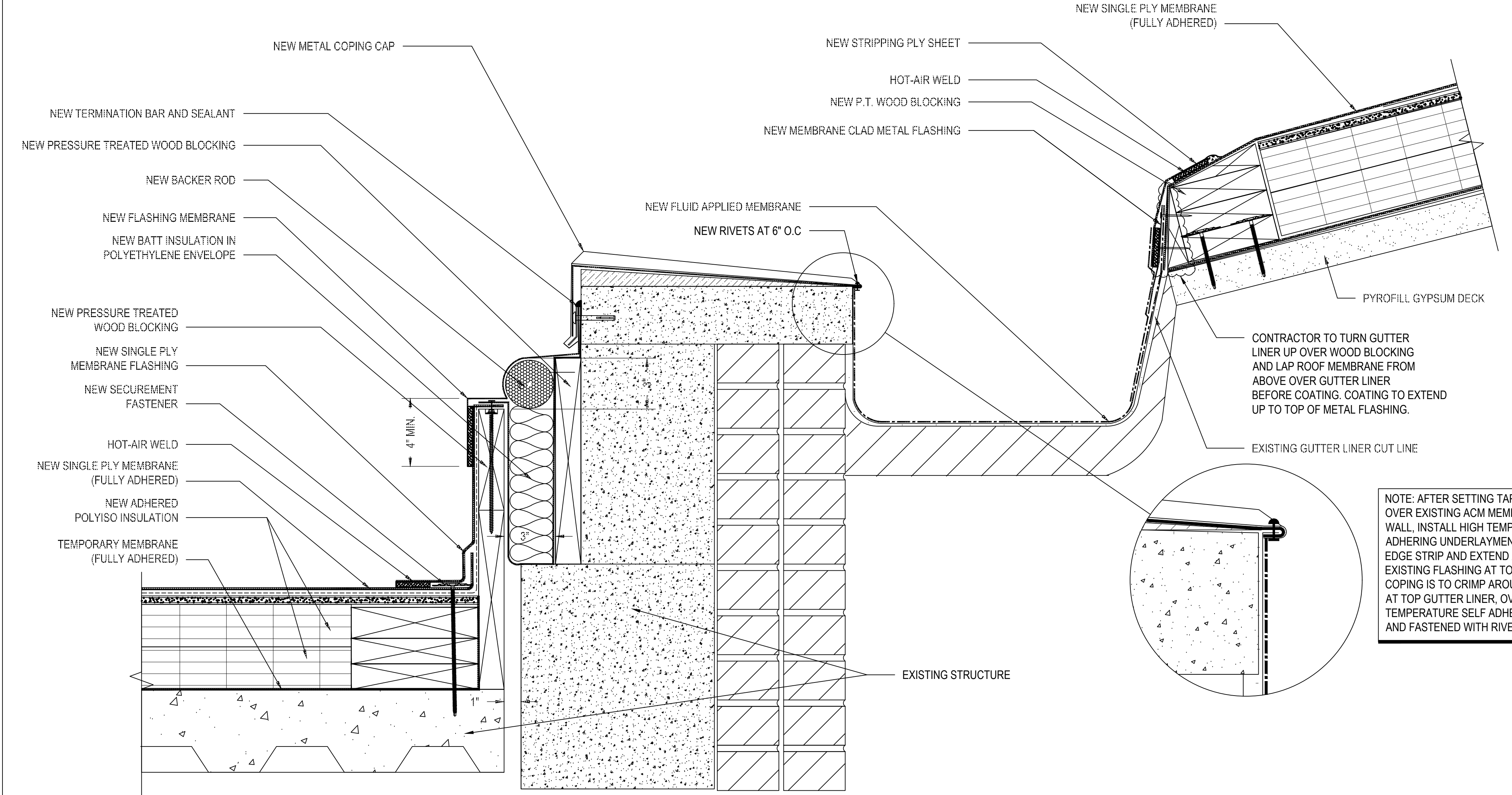
MEMORIAL HALL ROOF REPLACEMENT PROJECT  
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**THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**  
110 E Cameron Ave., Chapel Hill, NC 27514

ROOF DETAILS

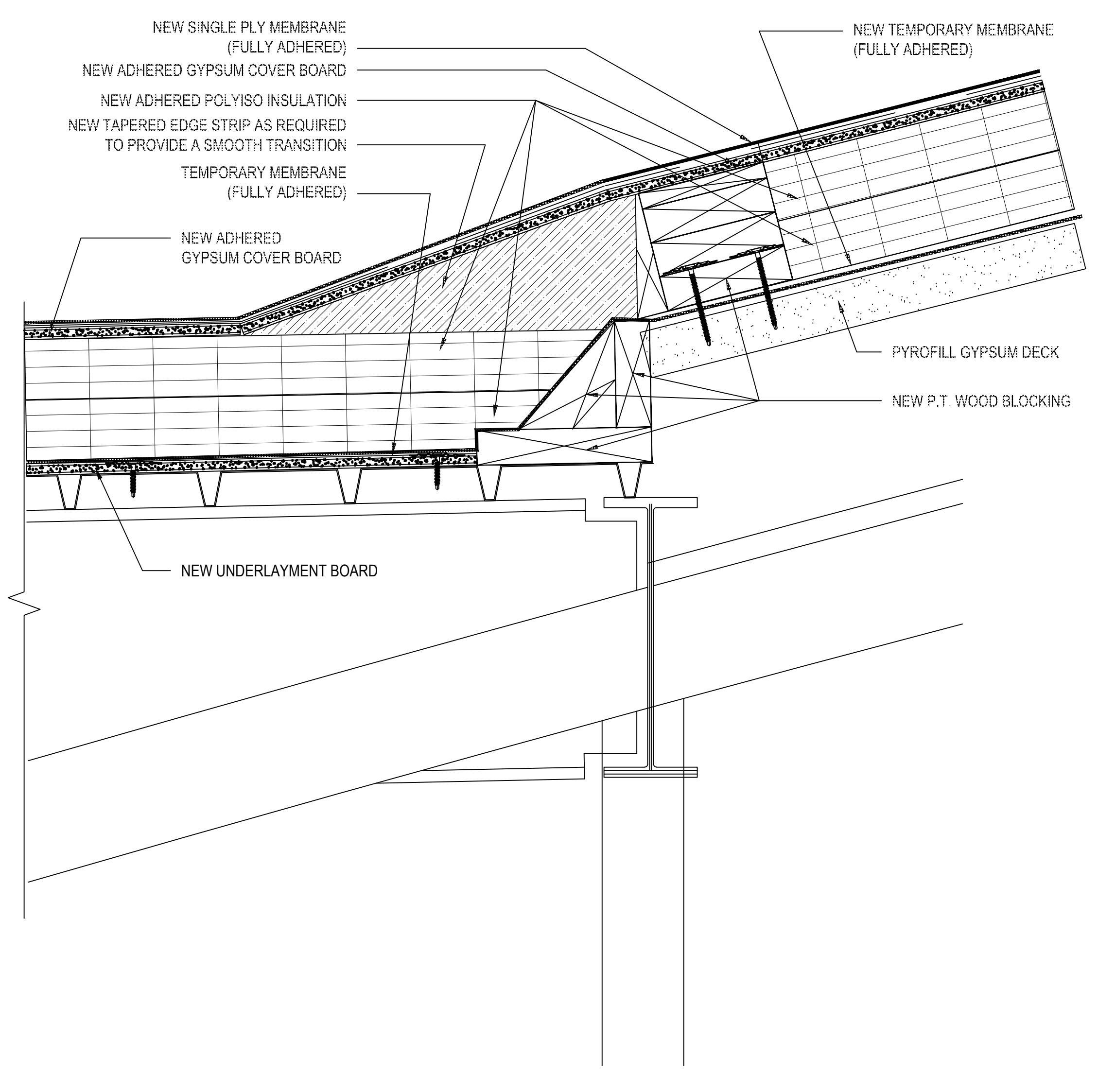


**1 WALL FLASHING - AT CONCRETE**  
3/8"=1'-0"

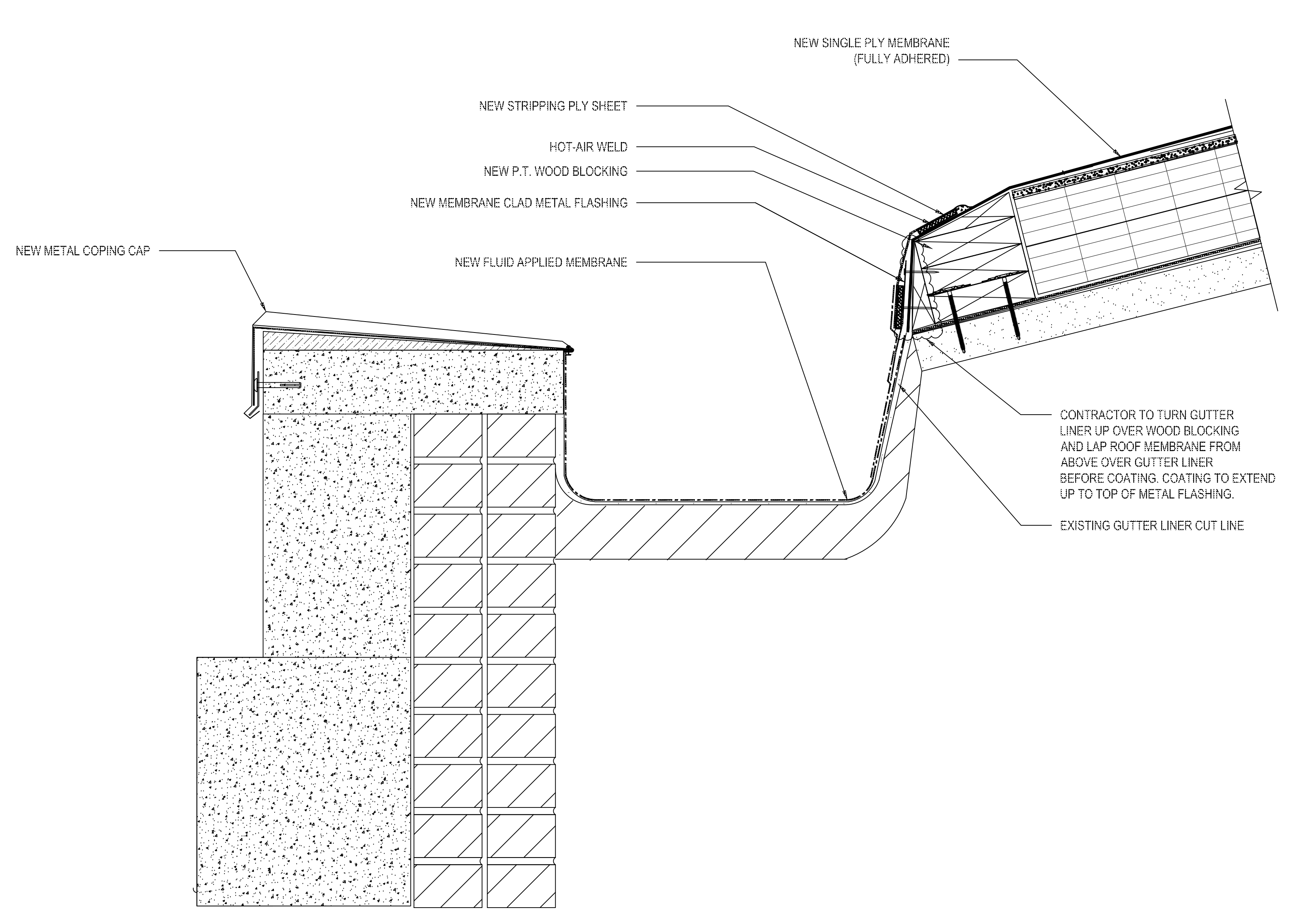


NOTE: AFTER SETTING TAPERED EDGE STRIP OVER EXISTING ACM MEMBRANE AND PARAPET WALL, INSTALL HIGH TEMPERATURE SELF ADHERING UNDERLAYMENT OVER TAPERED EDGE STRIP AND EXTEND AROUND BEND IN EXISTING FLASHING AT TOP OF GUTTER LINING. COPING IS TO CRIMP AROUND EXISTING BEND IN AT TOP GUTTER LINER, OVER THE HIGH TEMPERATURE SELF ADHERING MEMBRANE, AND FASTENED WITH RIVETS AT 6" O.C.

**2 BARRELL ROOF TO LOW SLOPE TRANSITION W/ INTERNAL GUTTER**  
3/8"=1'-0"



**3 BARREL ROOF LOW SLOPE ROOF TRANSITION**  
3/8"=1'-0"



**4 BARRELL ROOF TO INTERNAL GUTTER**  
3/8"=1'-0"

REVISIONS:

NO.	DATE	DESCRIPTION
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TERRACON PROJECT NUMBER:  
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DESIGNED BY: JHP

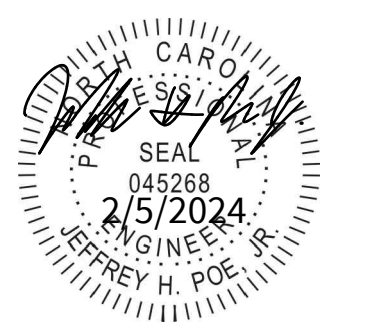
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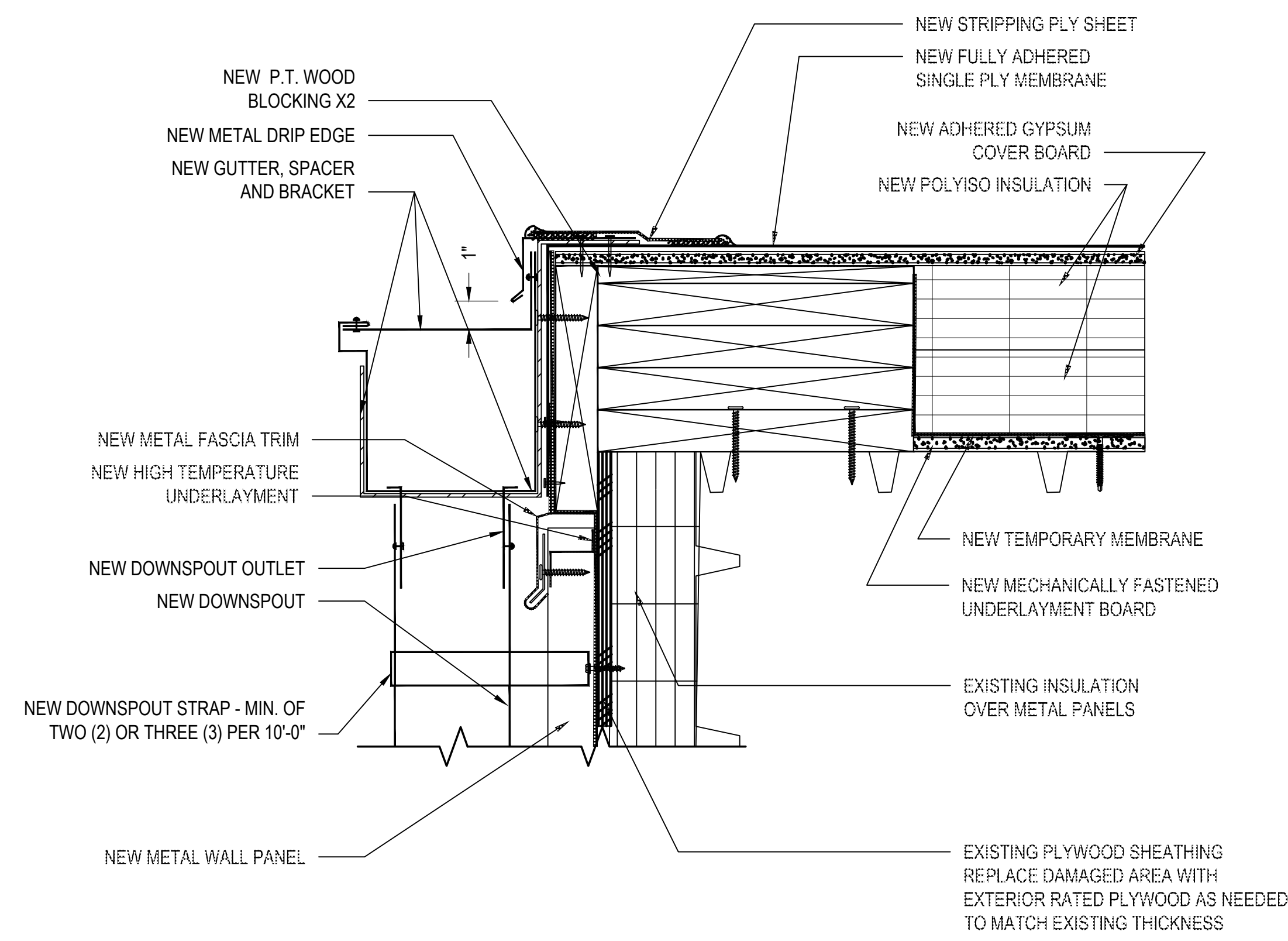
SHEET NUMBER  
**A-500**



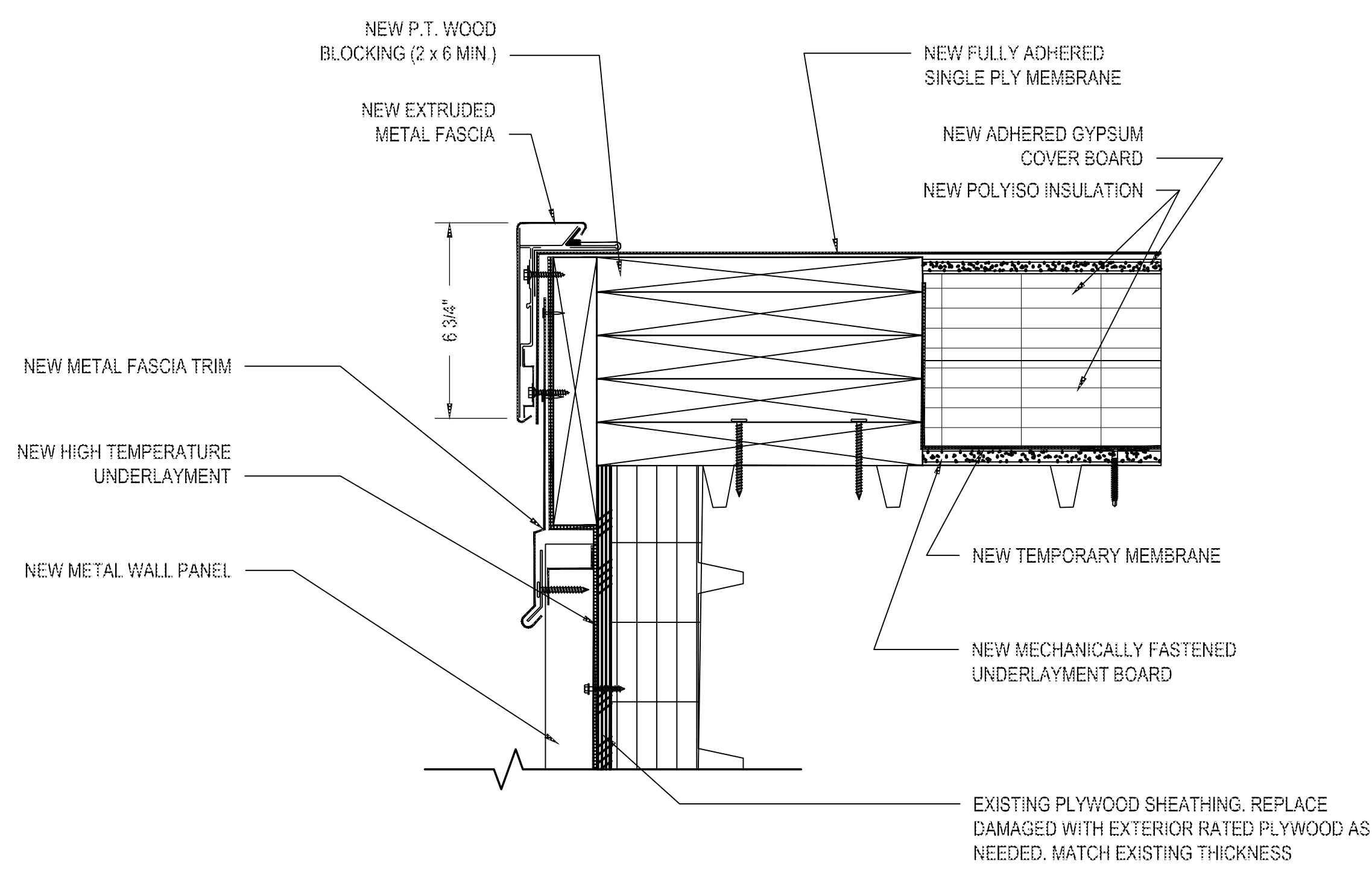
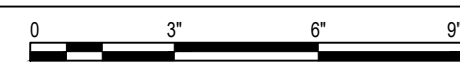
MEMORIAL HALL ROOF REPLACEMENT PROJECT  
SCO ID NO. 22-25151-01A

**THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**  
110 E Cameron Ave., Chapel Hill, NC 27514

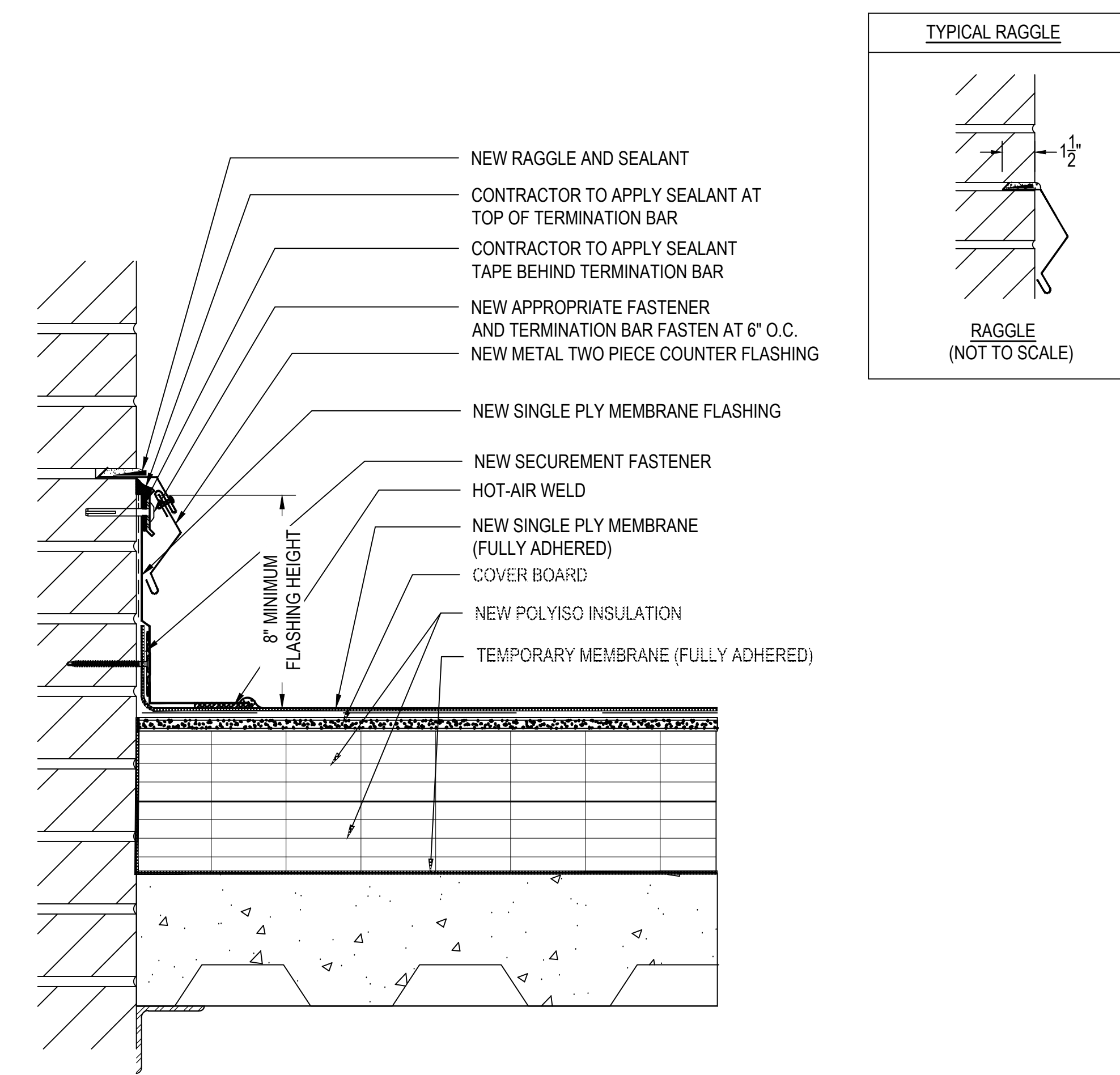
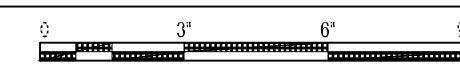
ROOF DETAILS



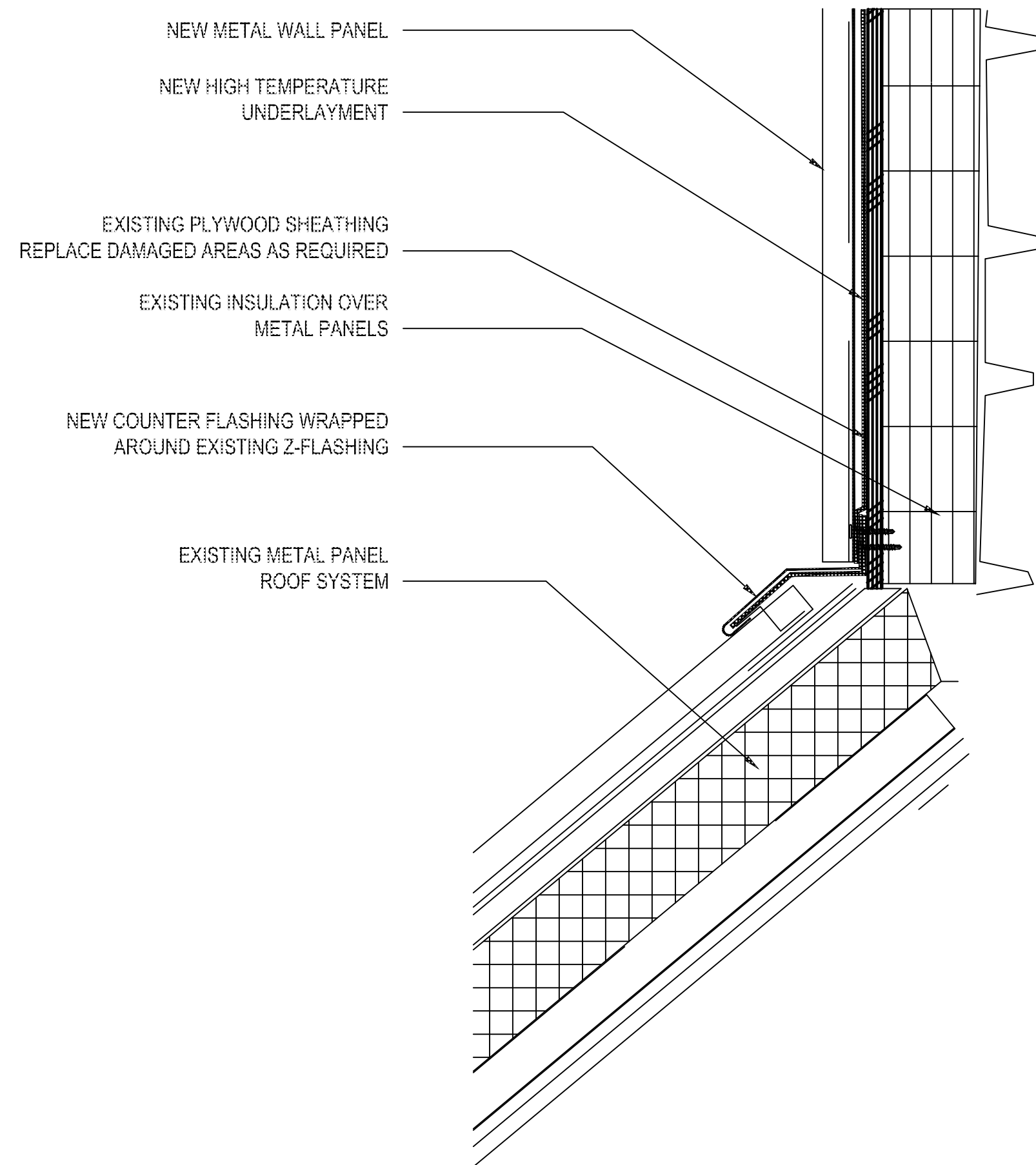
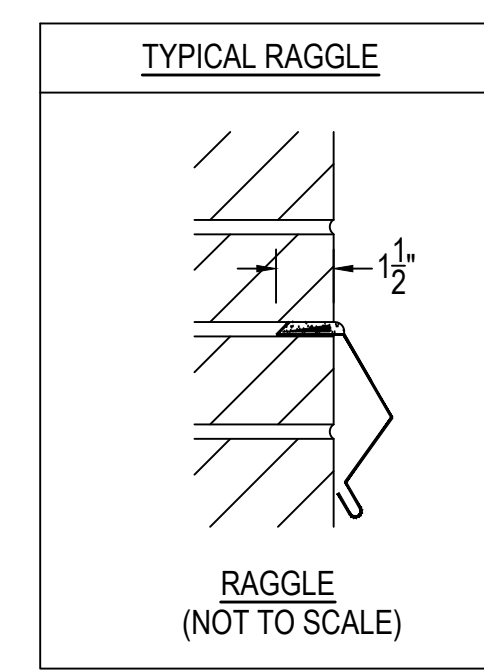
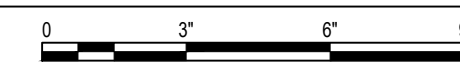
**1** GUTTER w/DOWNSPOUT DETAIL



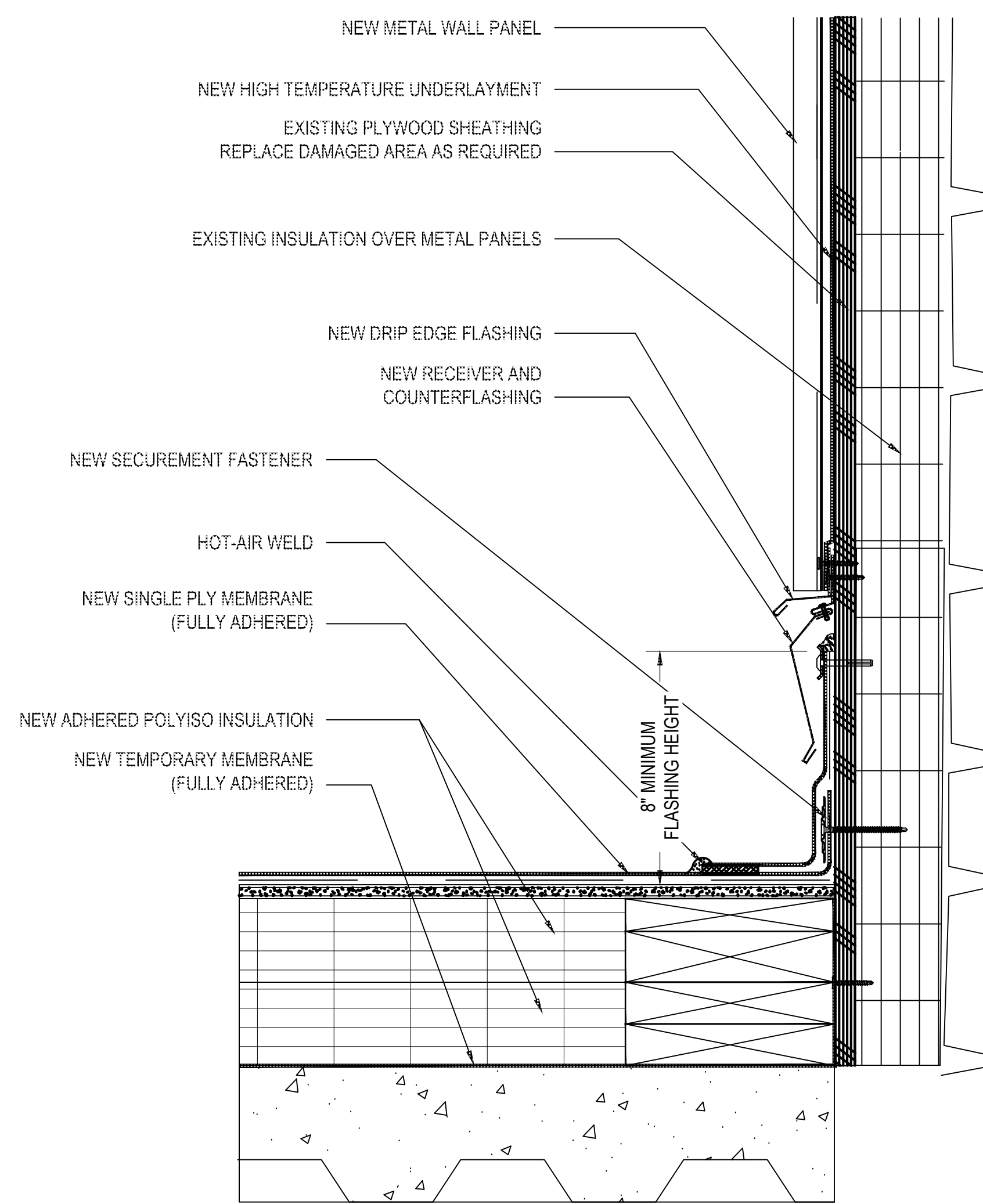
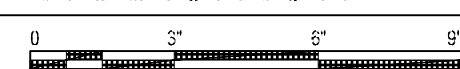
**2** EDGE FLASHING DETAIL



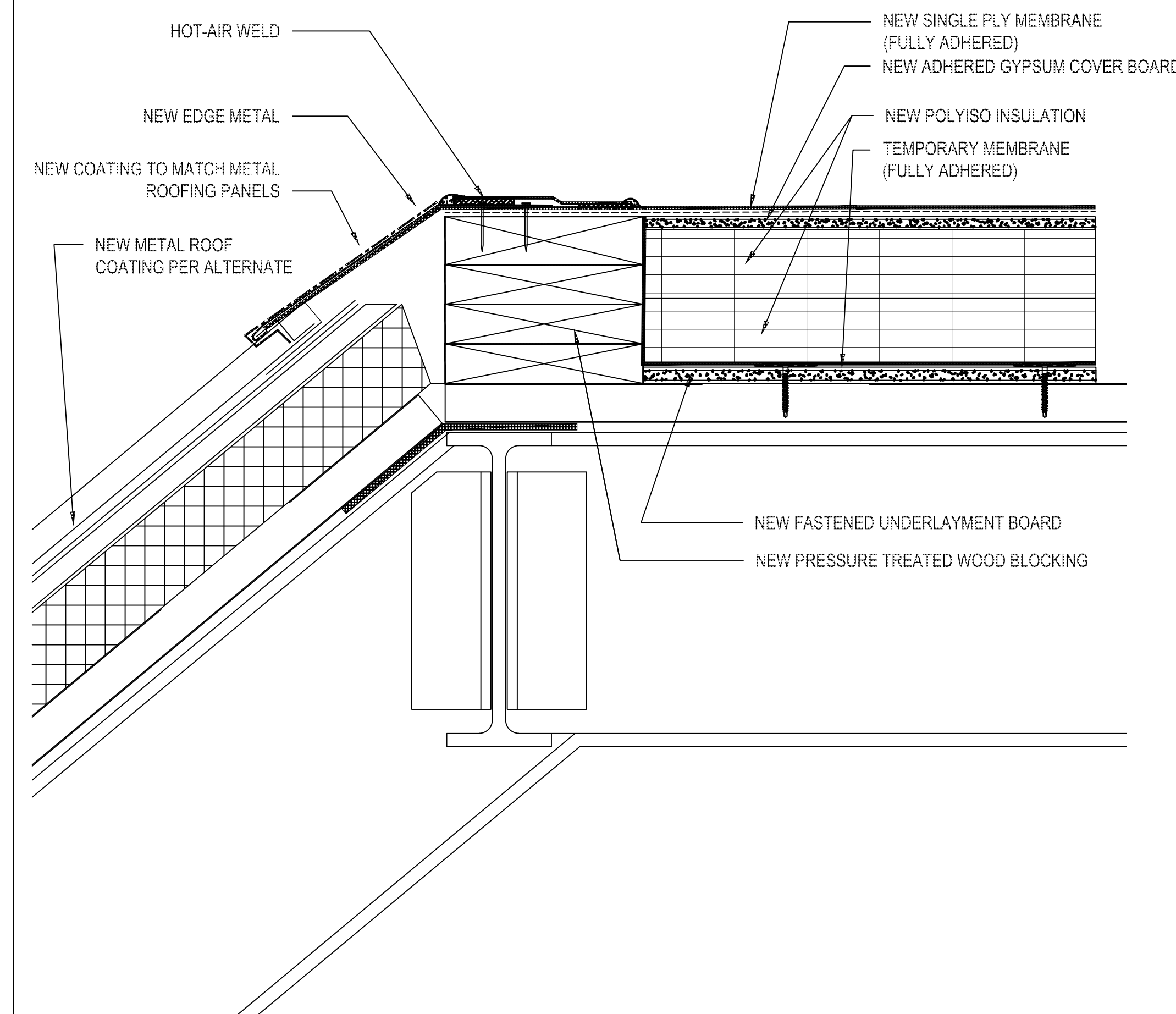
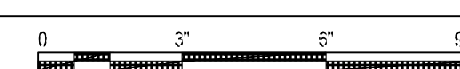
**3** WALL FLASHING - RAGGLE



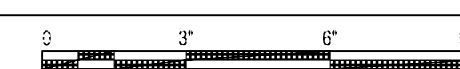
**4** METAL PANEL WALL TO METAL PANEL ROOF TRANSITION



**5** WALL FLASHING AT METAL PANEL WALL



**6** LOW SLOPE TO STEEP SLOPE TRANSITION



REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

TERRACON PROJECT NUMBER:  
FJ226041

DESIGNED BY: JHP

DRAWN BY: DSK

APPROVED BY: MLB

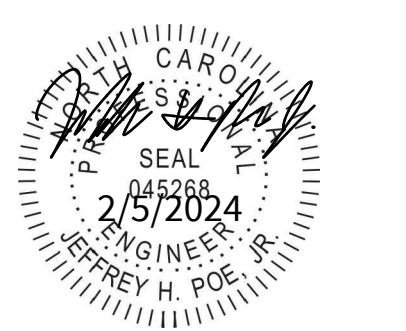
- ISSUE FOR:
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  - SCHEMATIC DESIGN DOCUMENTS NOT FOR CONSTRUCTION
  - DESIGN DEVELOPMENT DOCUMENTS NOT FOR CONSTRUCTION
  - PERMITTING / BIDDING
  - CONSTRUCTION DOCUMENTS
  - ADDENDUM SUBMITTAL
  - RECORD DRAWINGS

ISSUE DATE:  
02.05.2024

SHEET NUMBER

**A-501**





MEMORIAL HALL ROOF REPLACEMENT PROJECT  
SCO ID NO. 22-25151-01A  
**THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**  
110 E Cameron Ave., Chapel Hill, NC 27514

ROOF DETAILS

REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

TERRACON PROJECT NUMBER:  
FJ226041

DESIGNED BY: JHP

DRAWN BY: DSK

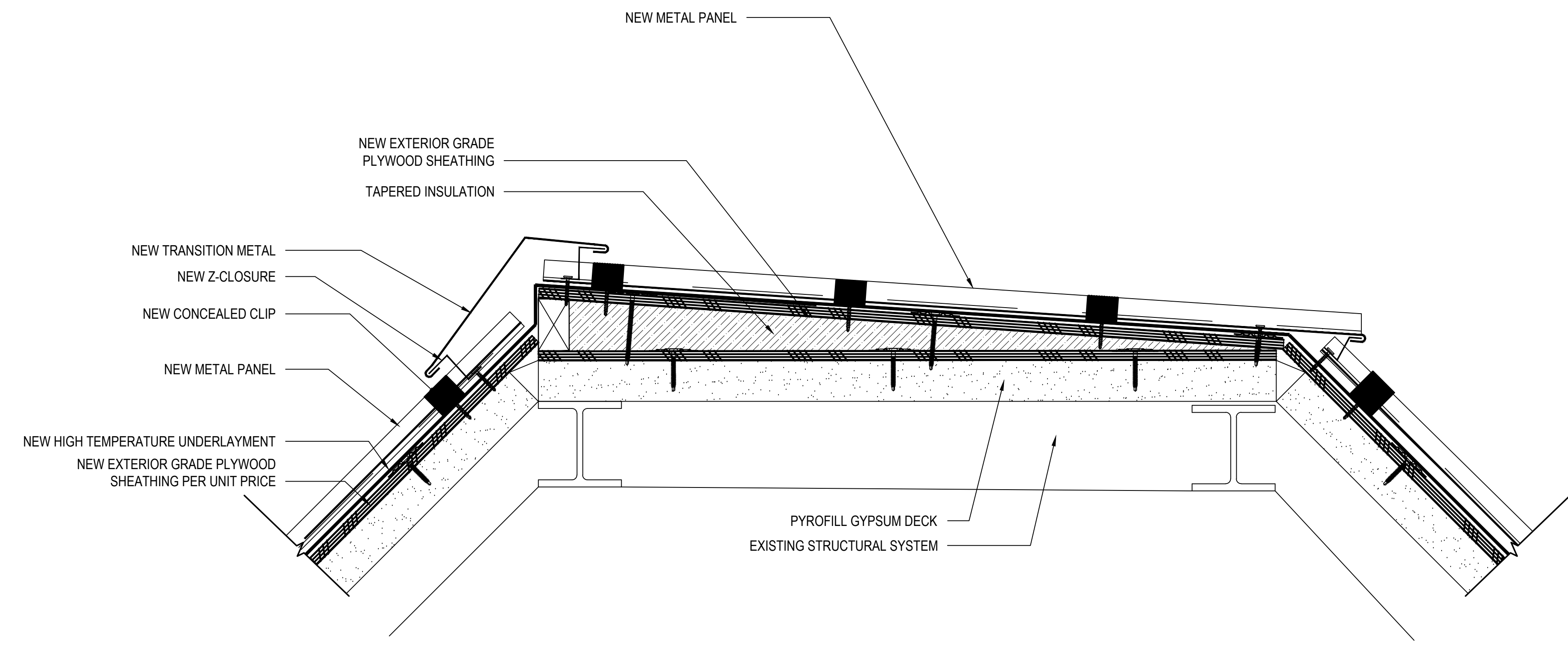
APPROVED BY: MLB

- ISSUE FOR:
- REVIEW / PRICING DOCUMENTS NOT FOR CONSTRUCTION
  - SCHEMATIC DESIGN DOCUMENTS NOT FOR CONSTRUCTION
  - DESIGN DEVELOPMENT DOCUMENTS NOT FOR CONSTRUCTION
  - PERMITTING / BIDDING
  - CONSTRUCTION DOCUMENTS
  - ADDENDUM SUBMITTAL
  - RECORD DRAWINGS

ISSUE DATE:  
02.05.2024

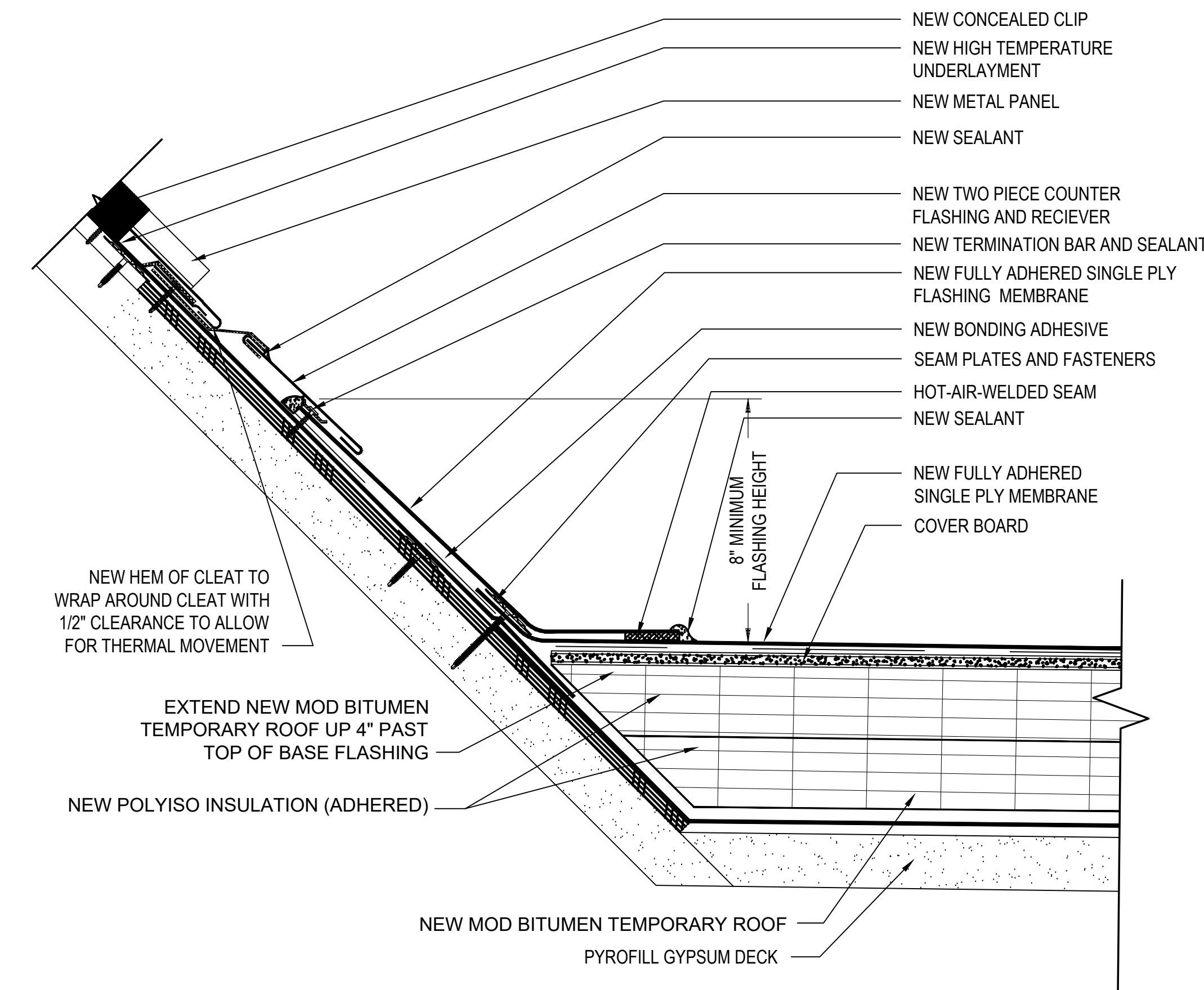
SHEET NUMBER

**A-502**



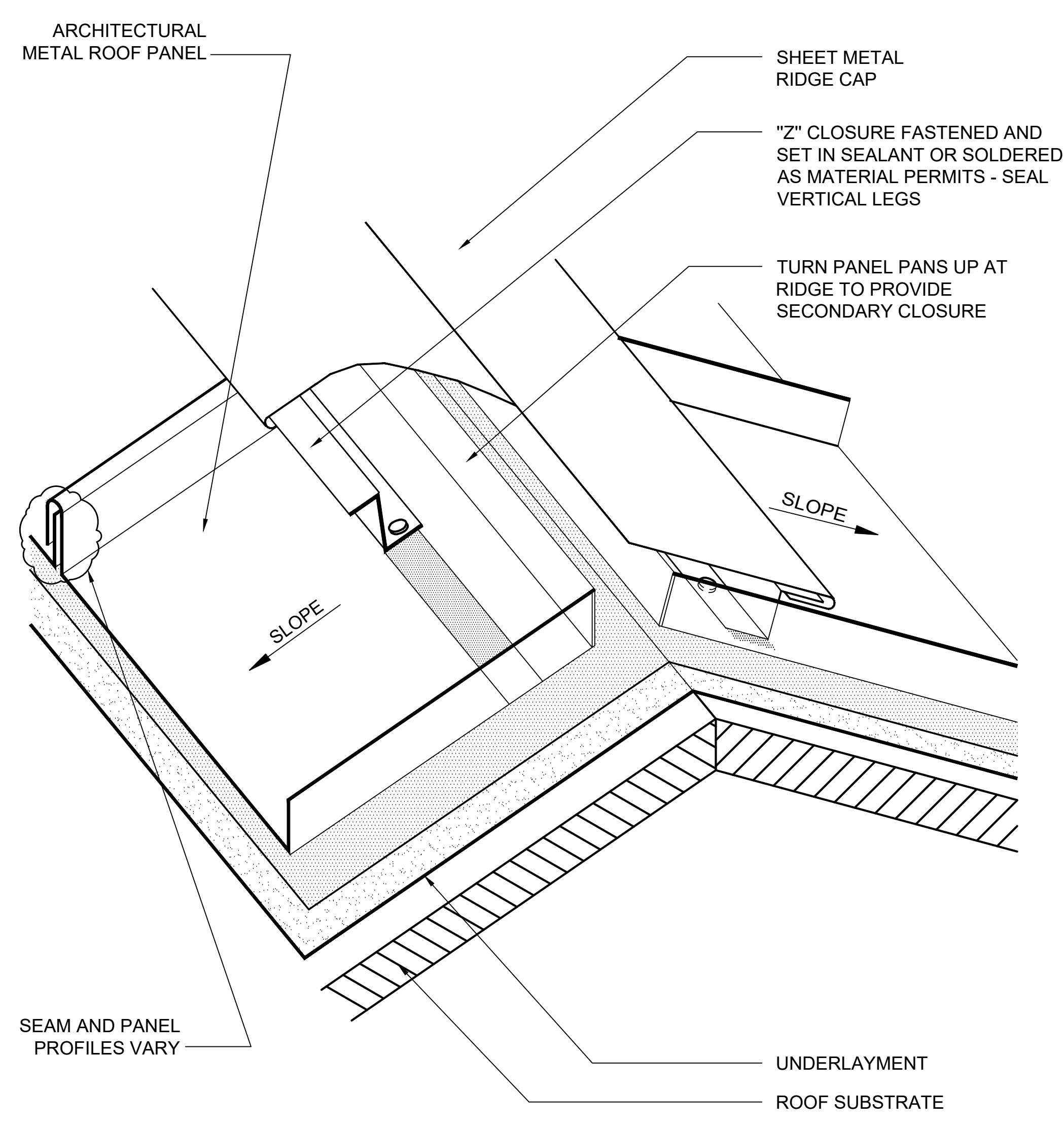
NOTE: CONTRACTOR IS TO PERFORM PULL TESTS WITH UP TO THREE FASTENERS RECOMMENDED BY METAL ROOFING MANUFACTURER AT A MINIMUM OF 5 LOCATIONS FOR ATTACHMENT OF CLIPS TO THE DECK. IF MANUFACTURER PROVIDED PULL OUT VALUES ARE NOT ACHIEVED, PLYWOOD IS TO BE INSTALLED PER THE UNIT PRICE.

**1** LOW SLOPE METAL ROOF TRANSITION  
3/8"=1'-0"

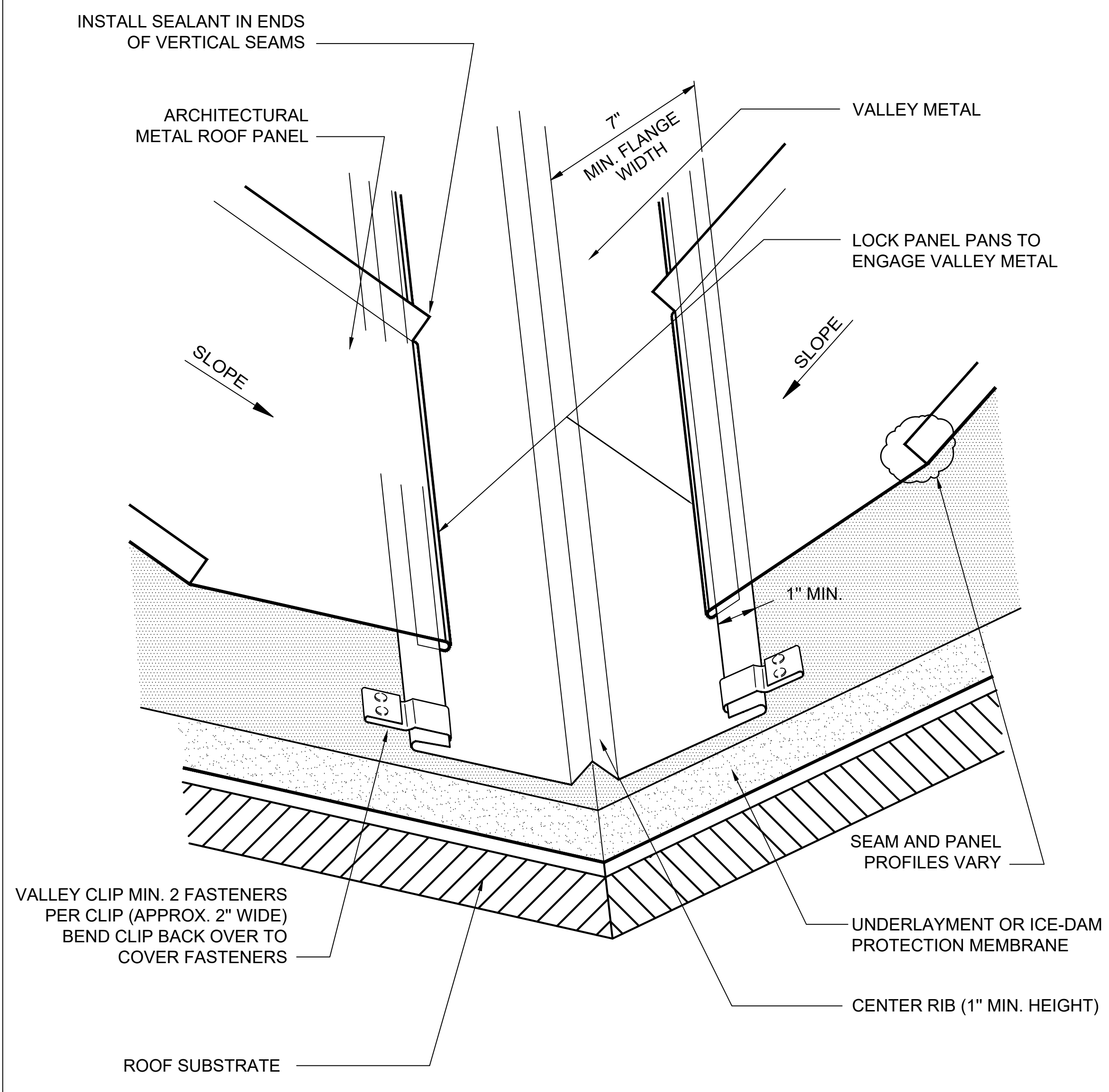


NOTE: CONTRACTOR IS TO PERFORM PULL TESTS WITH UP TO THREE FASTENERS RECOMMENDED BY METAL ROOFING MANUFACTURER AT A MINIMUM OF 5 LOCATIONS FOR ATTACHMENT OF CLIPS TO THE DECK. IF MANUFACTURER PROVIDED PULL OUT VALUES ARE NOT ACHIEVED, PLYWOOD IS TO BE INSTALLED PER THE UNIT PRICE.

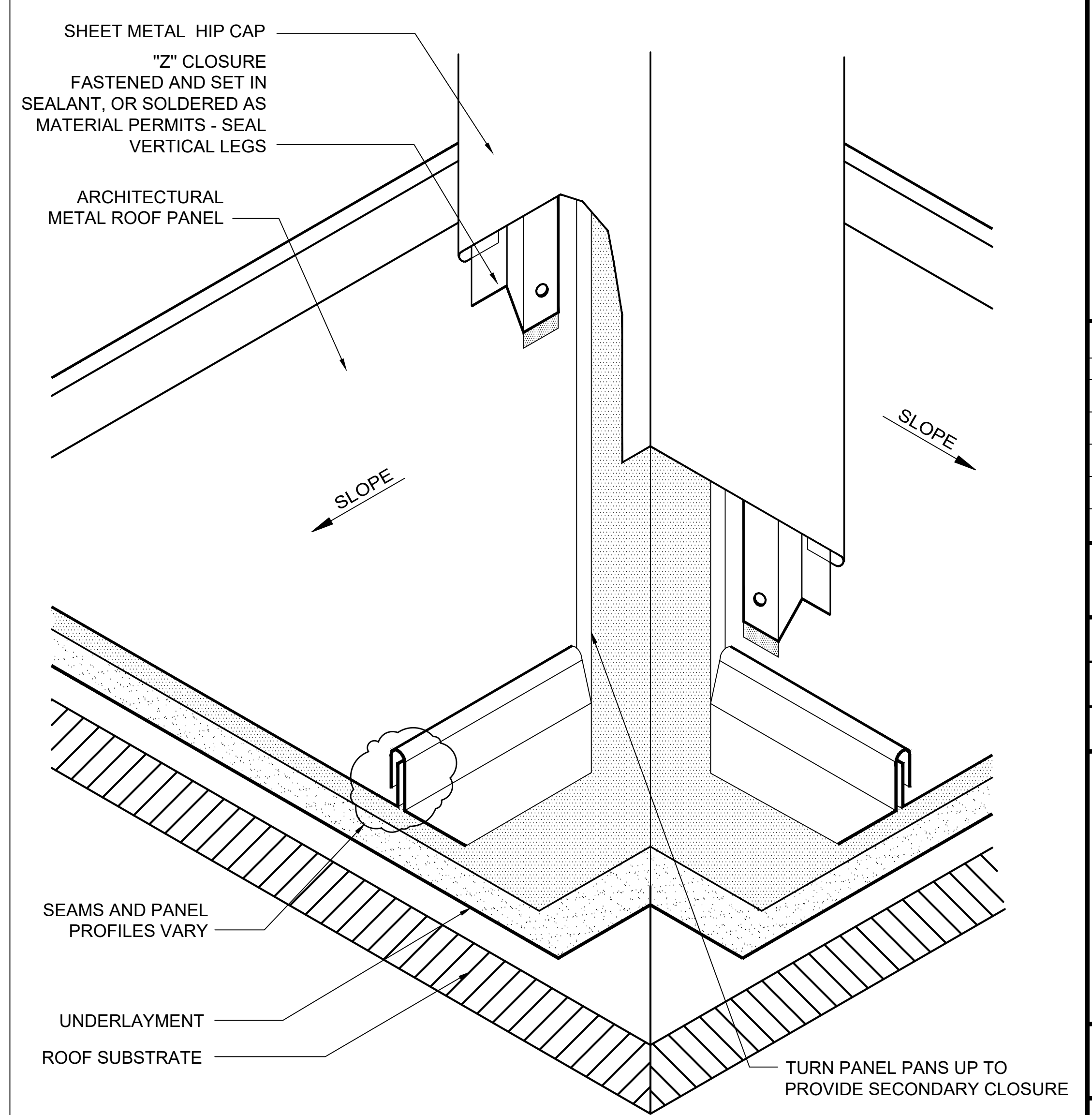
**2** STEEP SLOPE TO BARREL ROOF TRANSITION  
3/8"=1'-0"



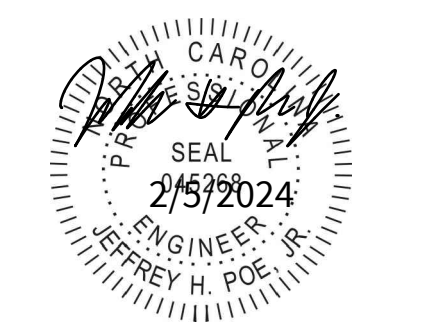
**3** RIDGE FLASHING  
NOT TO SCALE



**4** VALLEY FLASHING  
NOT TO SCALE



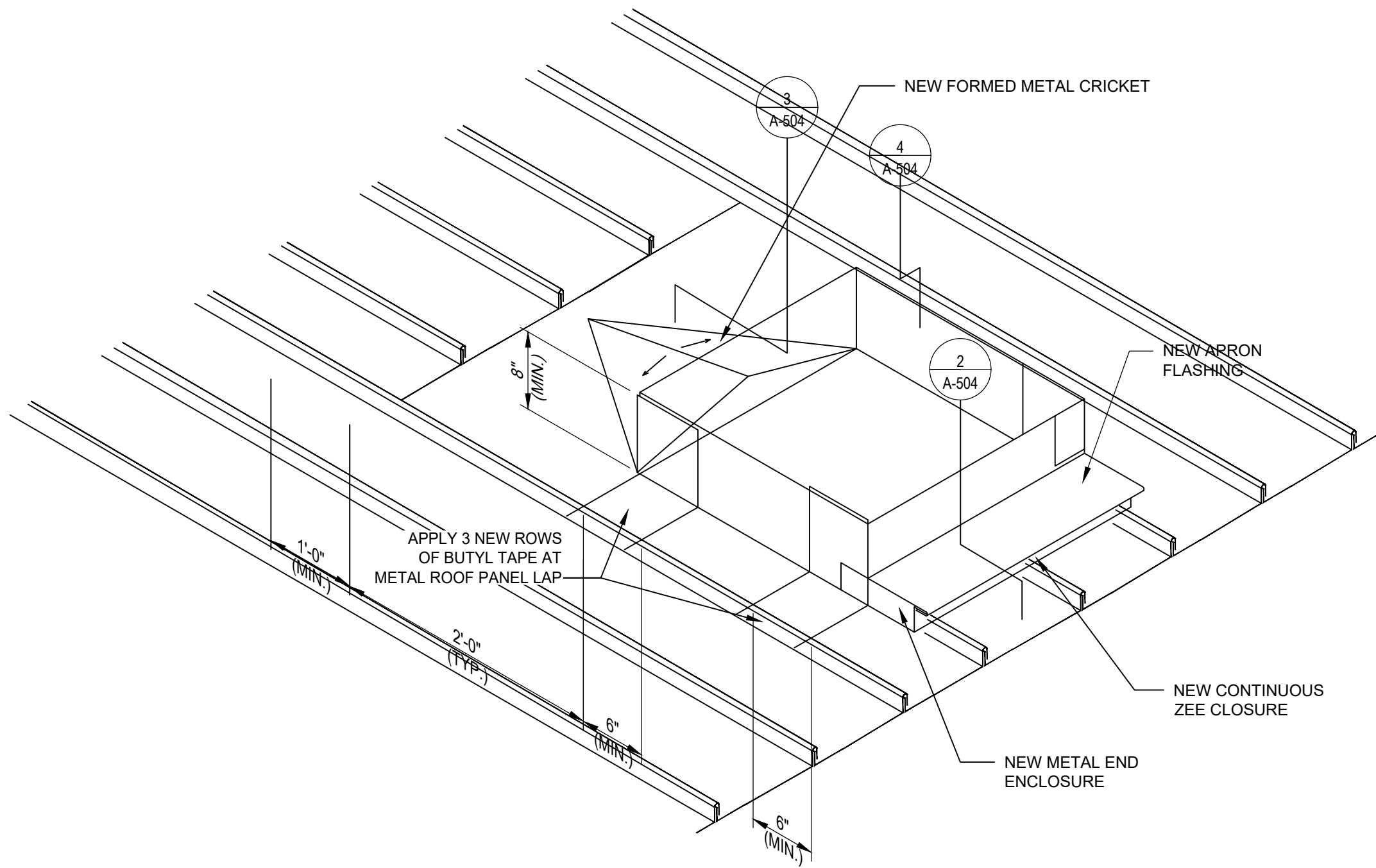
**5** HIP FLASHING  
NOT TO SCALE



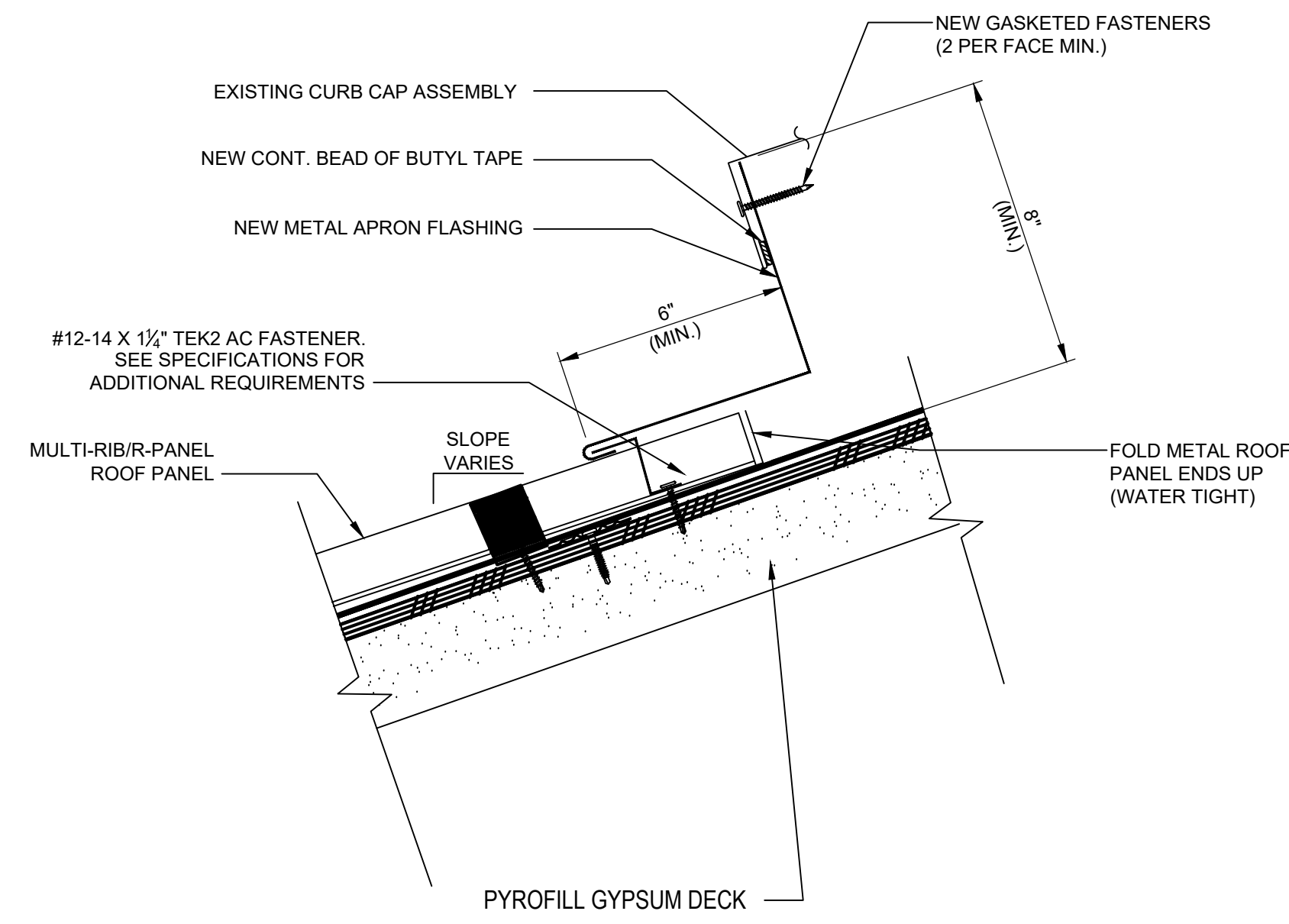
MEMORIAL HALL ROOF REPLACEMENT PROJECT  
SCO ID NO. 22-25151-01A

**THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**  
110 E Cameron Ave., Chapel Hill, NC 27514

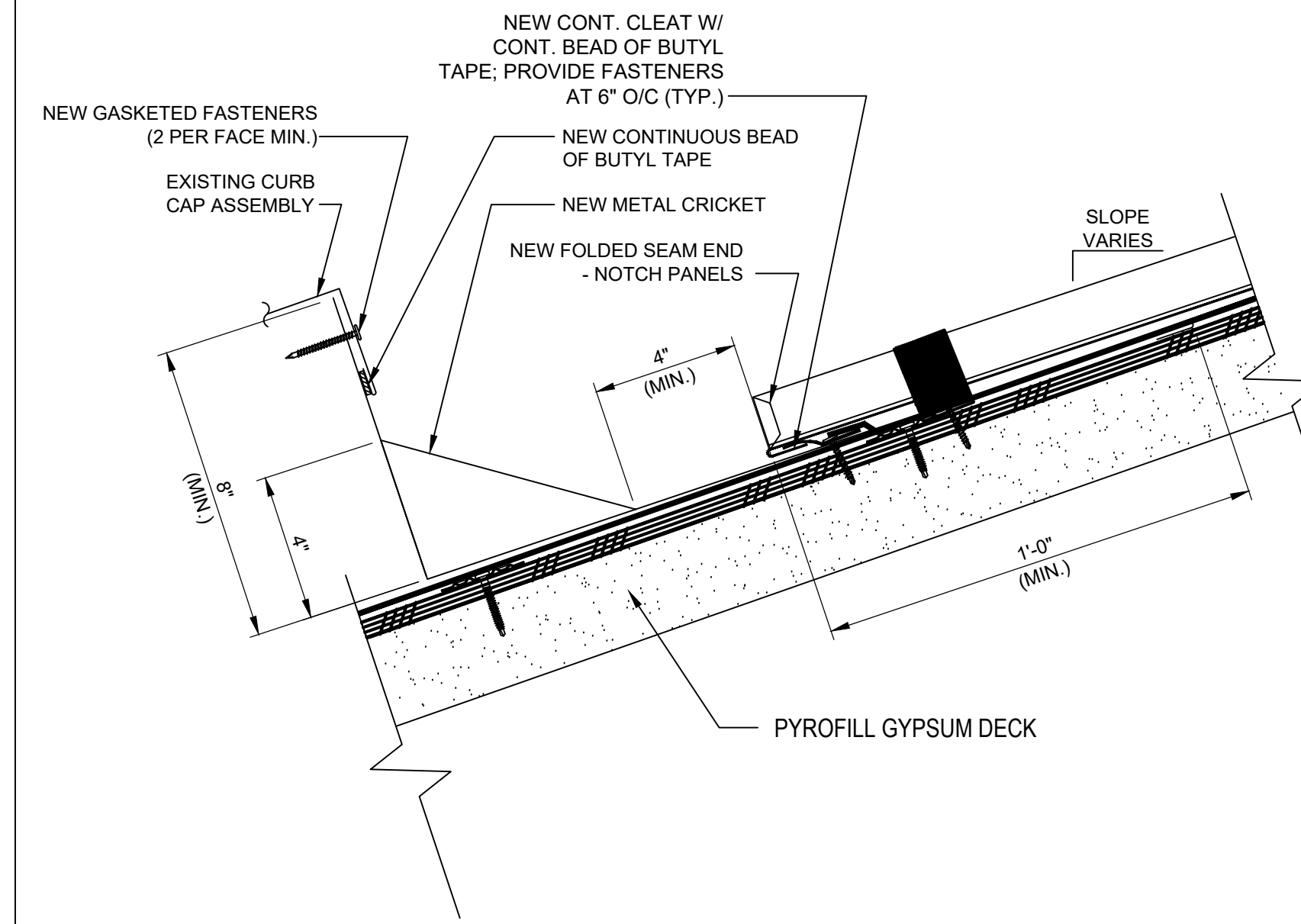
ROOF DETAILS



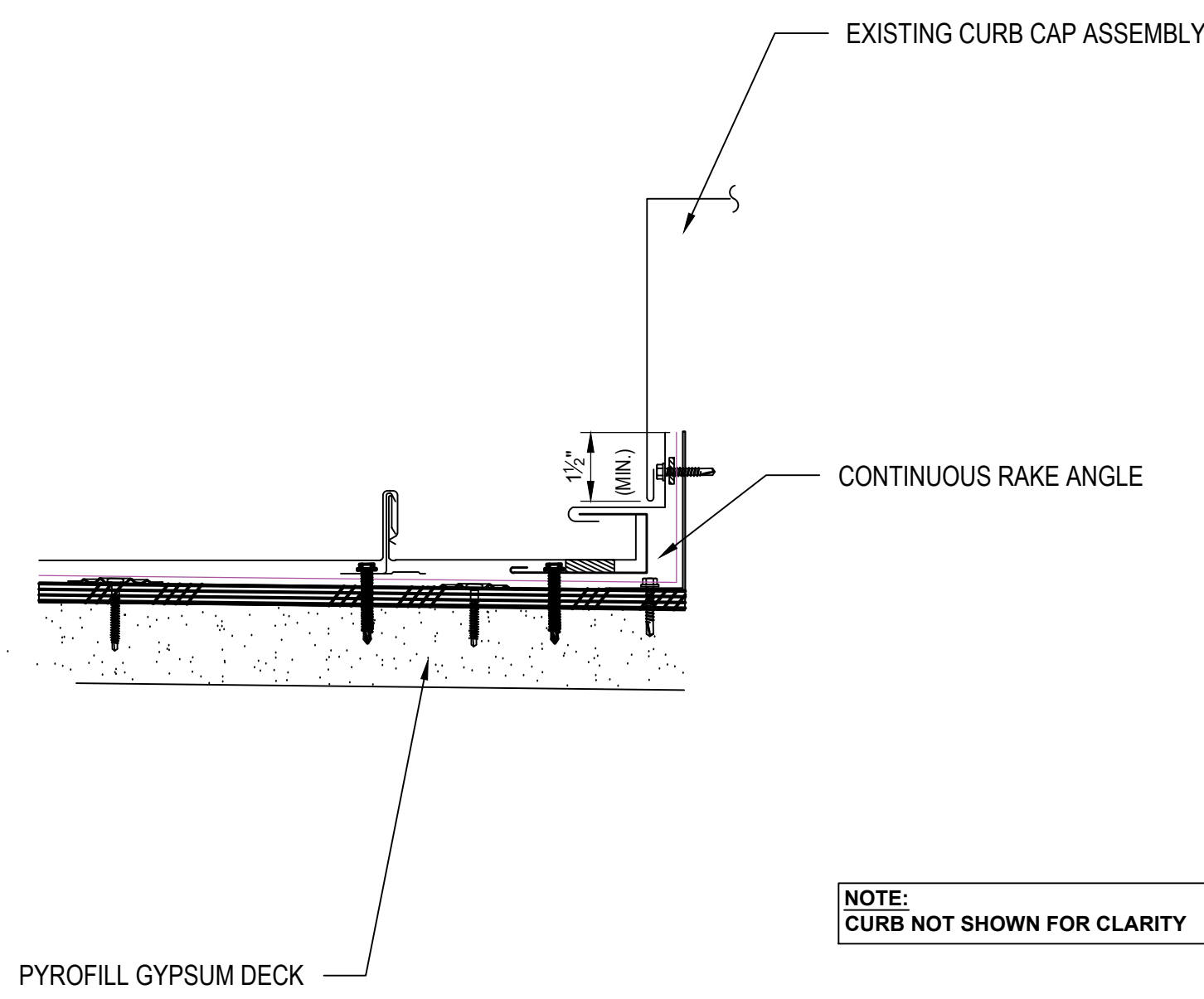
**1** TYPICAL CURB DETAIL  
NTS



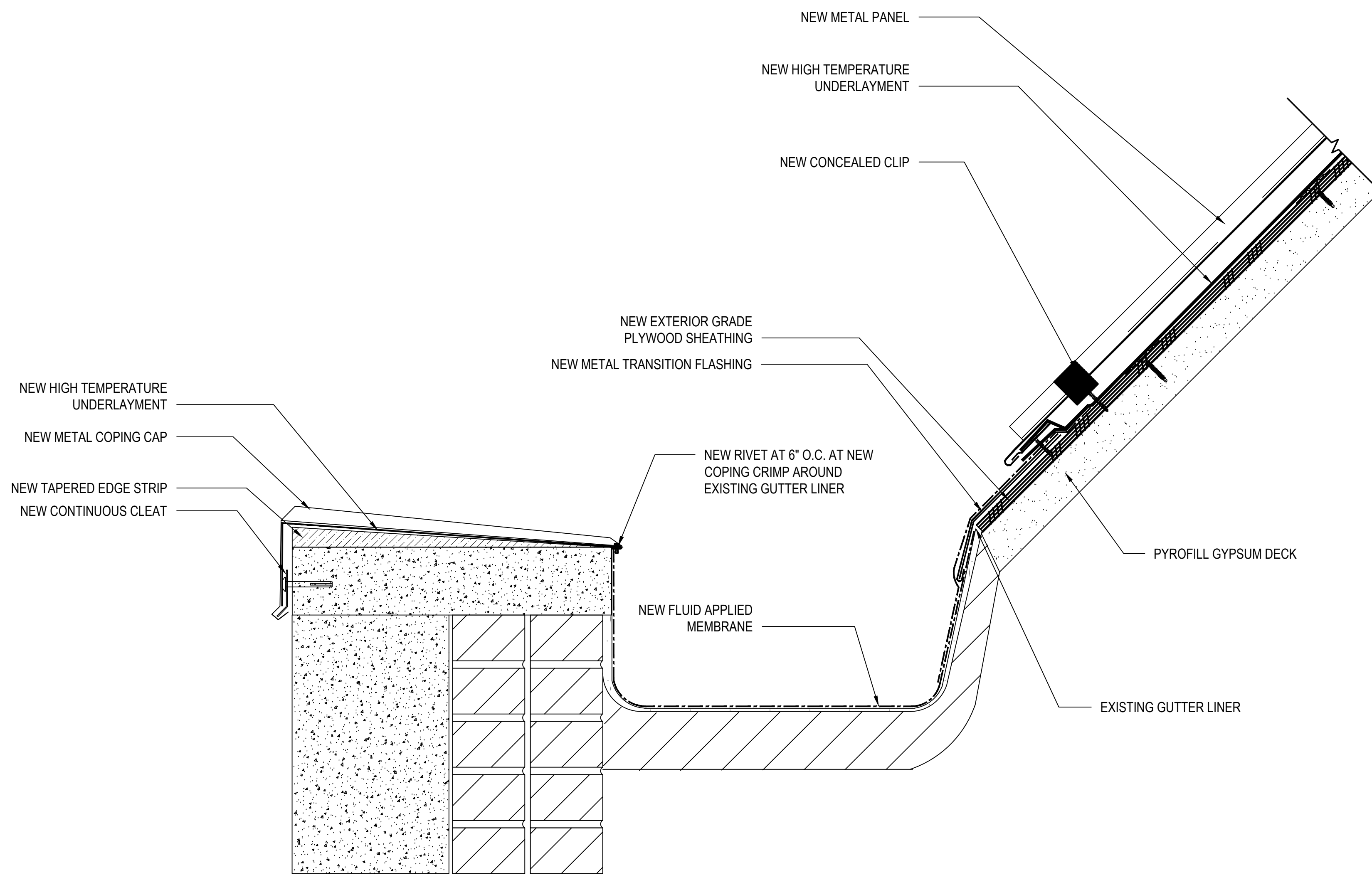
**2** TYPICAL CURB APRON FLASHING DETAIL - DOWNSIDE  
3/8"=1'-0"



**3** TYPICAL CURB CRICKET DETAIL - UPSLOPE  
3/8"=1'-0"



**4** TYPICAL CURB FLASHING DETAIL - RAKE  
3/8"=1'-0"



**5** METAL PANEL ROOF TO INTERNAL GUTTER  
3/8"=1'-0"

REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

TERRACON PROJECT NUMBER:  
FJ226041

DESIGNED BY: JHP

DRAWN BY: DSK

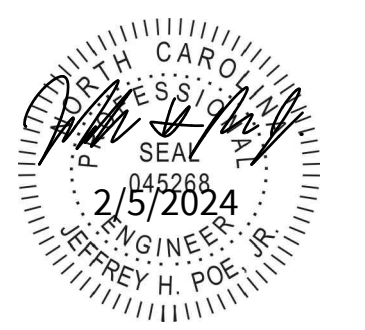
APPROVED BY: MLB

- ISSUE FOR:
- REVIEW / PRICING DOCUMENTS NOT FOR CONSTRUCTION
  - SCHEMATIC DESIGN DOCUMENTS NOT FOR CONSTRUCTION
  - DESIGN DEVELOPMENT DOCUMENTS NOT FOR CONSTRUCTION
  - PERMITTING / BIDDING
  - CONSTRUCTION DOCUMENTS
  - ADDENDUM SUBMITTAL
  - RECORD DRAWINGS

ISSUE DATE:  
02.05.2024

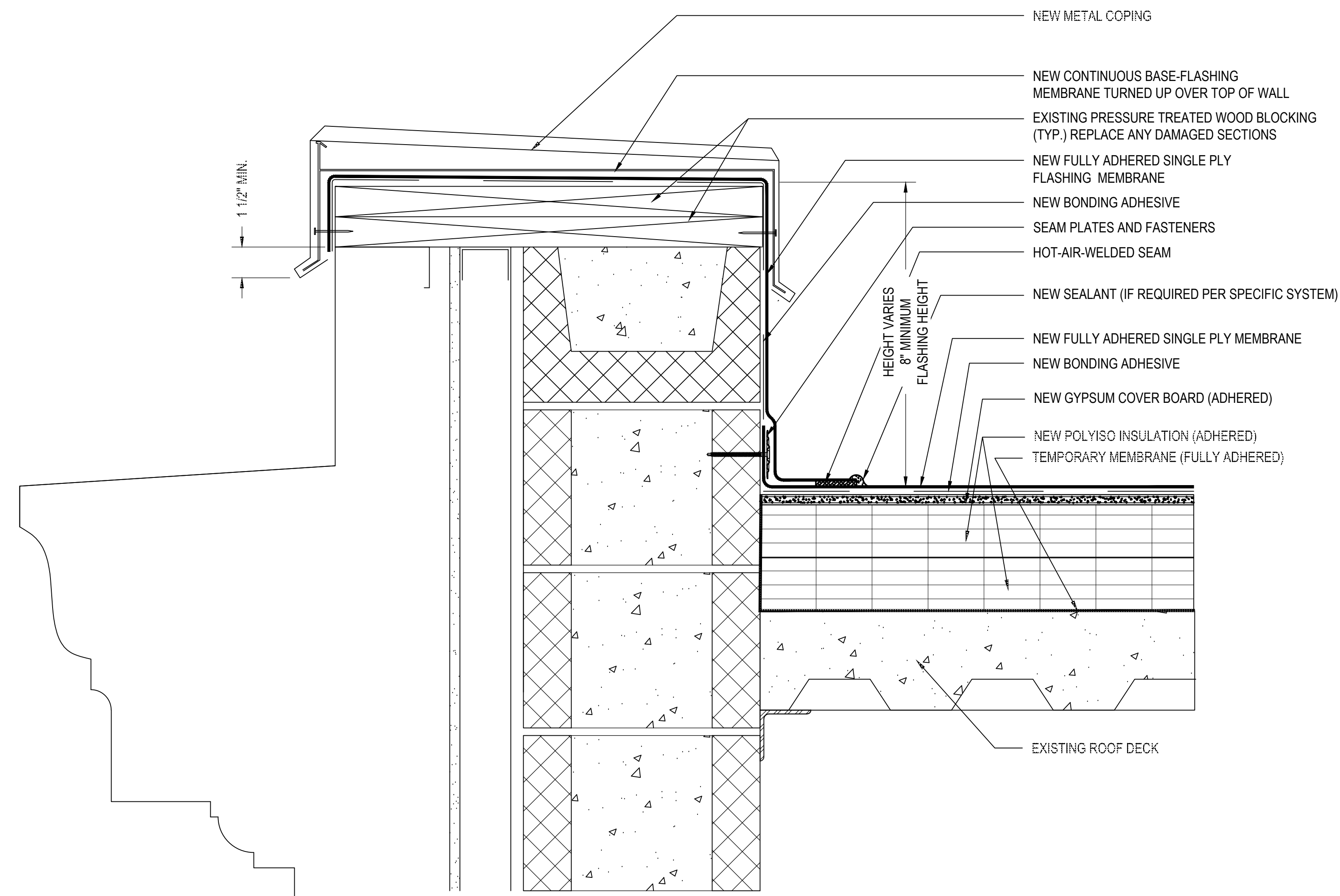
SHEET NUMBER

**A-503**



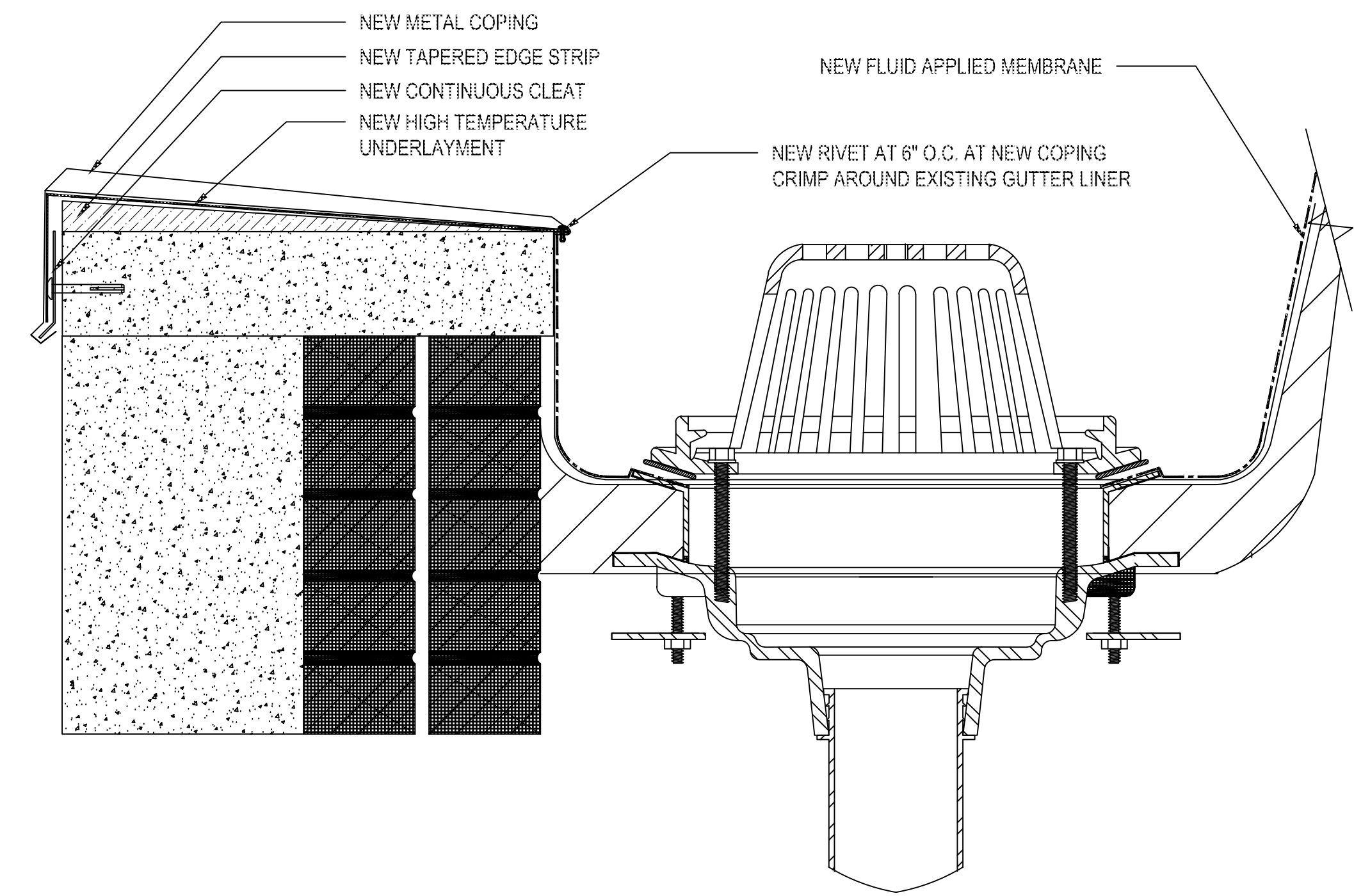
MEMORIAL HALL ROOF REPLACEMENT PROJECT  
SCO ID NO. 22-25151-01A  
**THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**  
110 E Cameron Ave., Chapel Hill, NC 27514

ROOF DETAILS



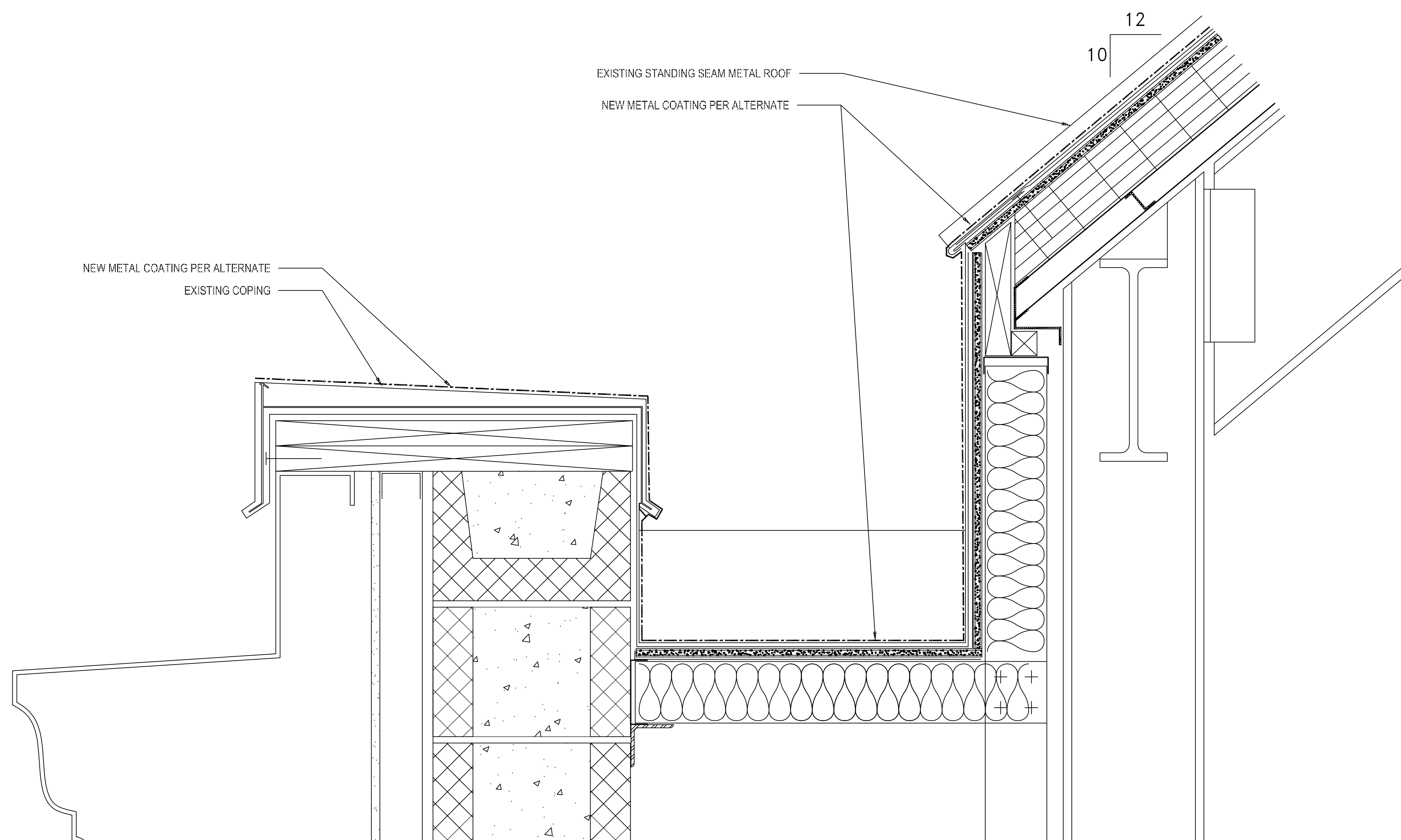
1 TYPICAL PARAPET WALL

3/8"=1'-0"



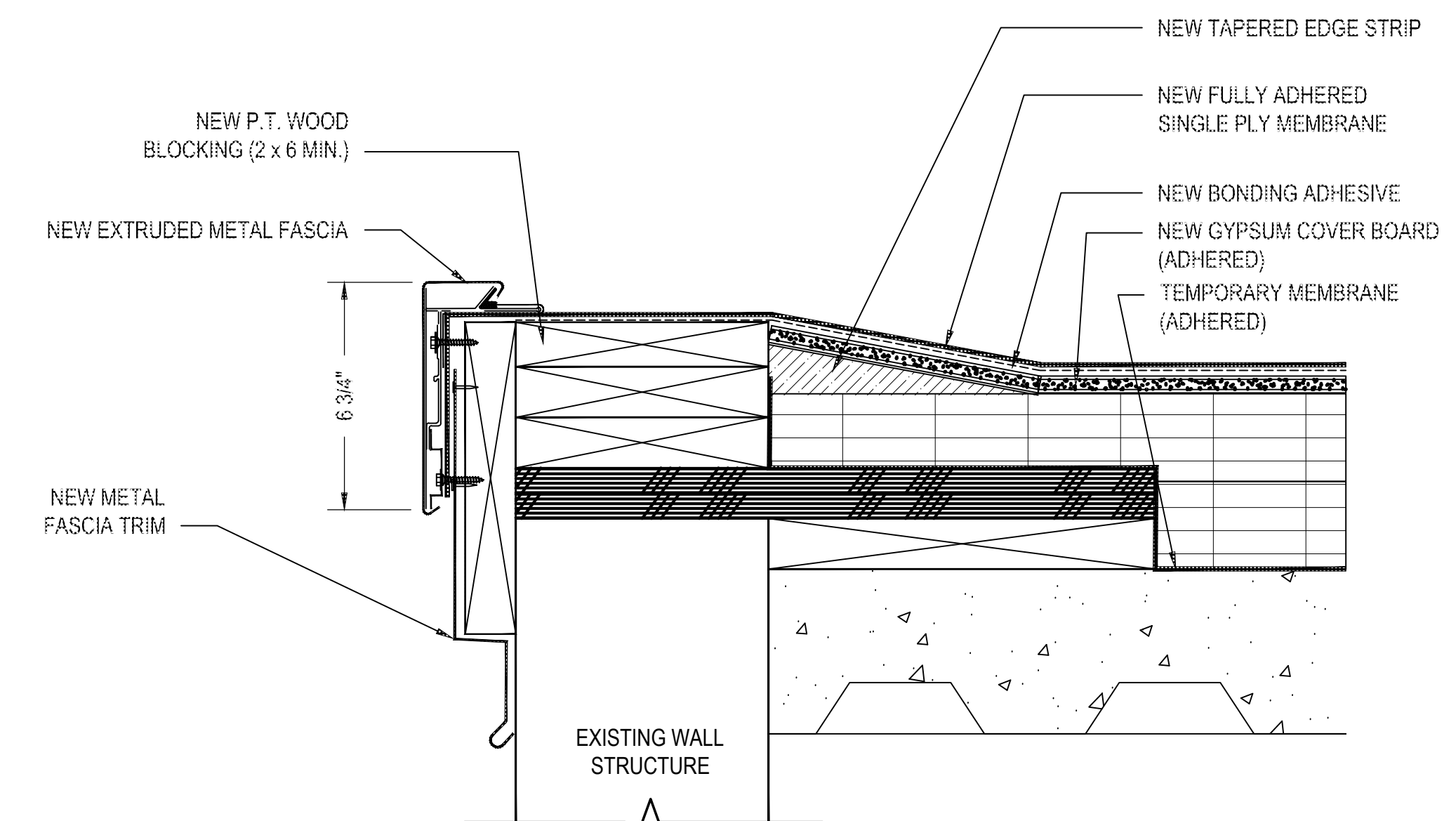
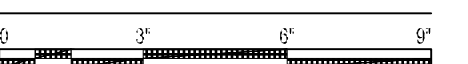
2 TYPICAL ROOF DRAIN

3/8"=1'-0"



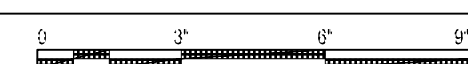
3 AREA 9 NORTH

3/8"=1'-0"



4 RAISED PERIMETER EDGE

3/8"=1'-0"



REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
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5		

TERRACON PROJECT NUMBER:  
FJ226041

DESIGNED BY: JHP

DRAWN BY: DSK

APPROVED BY: MLB

- ISSUE FOR:
- REVIEW / PRICING DOCUMENTS NOT FOR CONSTRUCTION
  - SCHEMATIC DESIGN DOCUMENTS NOT FOR CONSTRUCTION
  - DESIGN DEVELOPMENT DOCUMENTS NOT FOR CONSTRUCTION
  - PERMITTING / BIDDING
  - CONSTRUCTION DOCUMENTS
  - ADDENDUM SUBMITTAL
  - RECORD DRAWINGS

ISSUE DATE:  
02.05.2024

SHEET NUMBER

**A-504**



MEMORIAL HALL ROOF REPLACEMENT PROJECT  
SCO ID NO. 22-25151-01A

**THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**  
110 E Cameron Ave., Chapel Hill, NC 27514

ROOF DETAILS

REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

TERRACON PROJECT NUMBER:

FJ226041

DESIGNED BY: JHP

DRAWN BY: DSK

APPROVED BY: MLB

ISSUE FOR:

- REVIEW / PRICING DOCUMENTS NOT FOR CONSTRUCTION
- SCHEMATIC DESIGN DOCUMENTS NOT FOR CONSTRUCTION
- DESIGN DEVELOPMENT DOCUMENTS NOT FOR CONSTRUCTION
- PERMITTING / BIDDING
- CONSTRUCTION DOCUMENTS
- ADDENDUM SUBMITTAL
- RECORD DRAWINGS

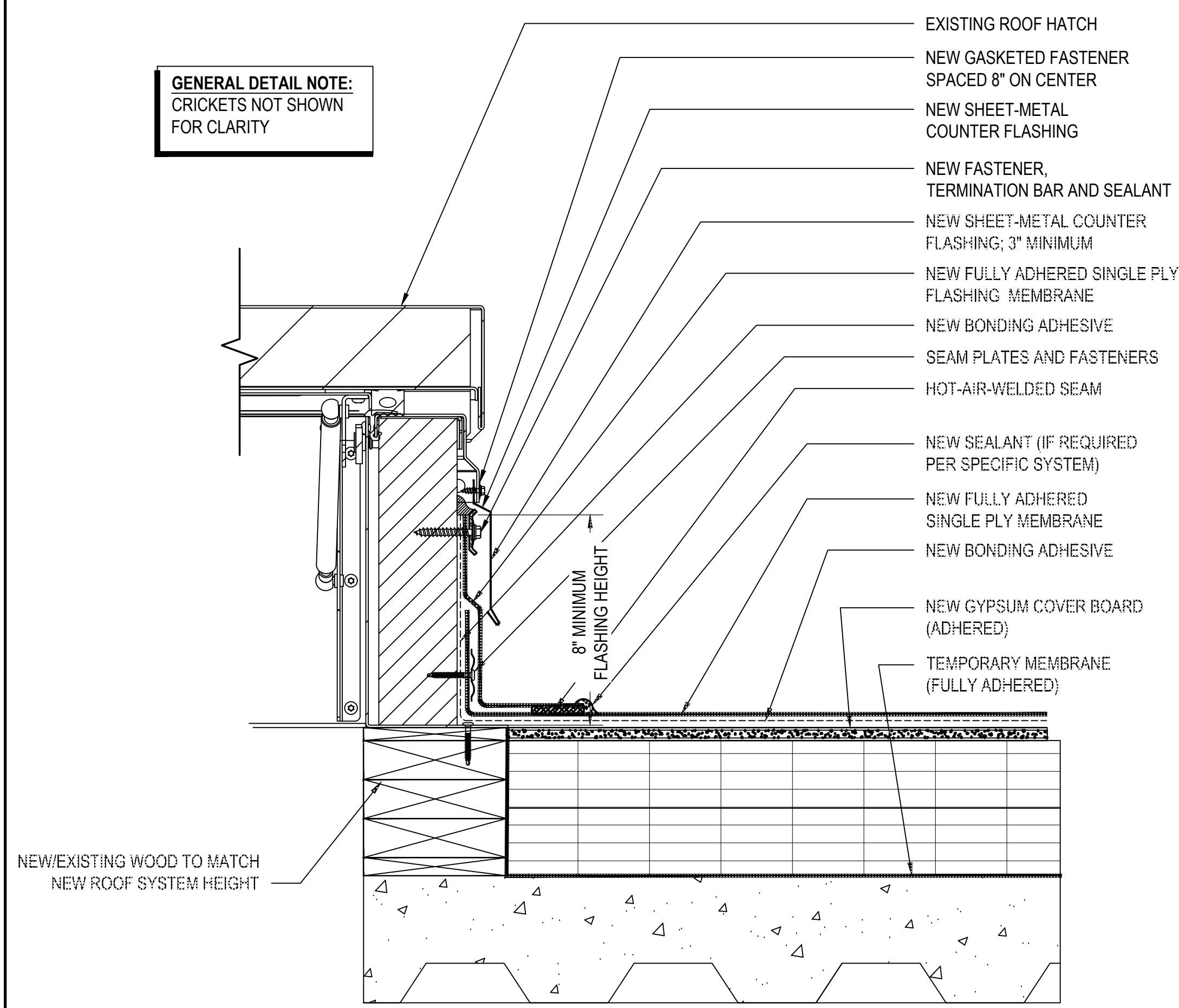
ISSUE DATE:

02.05.2024

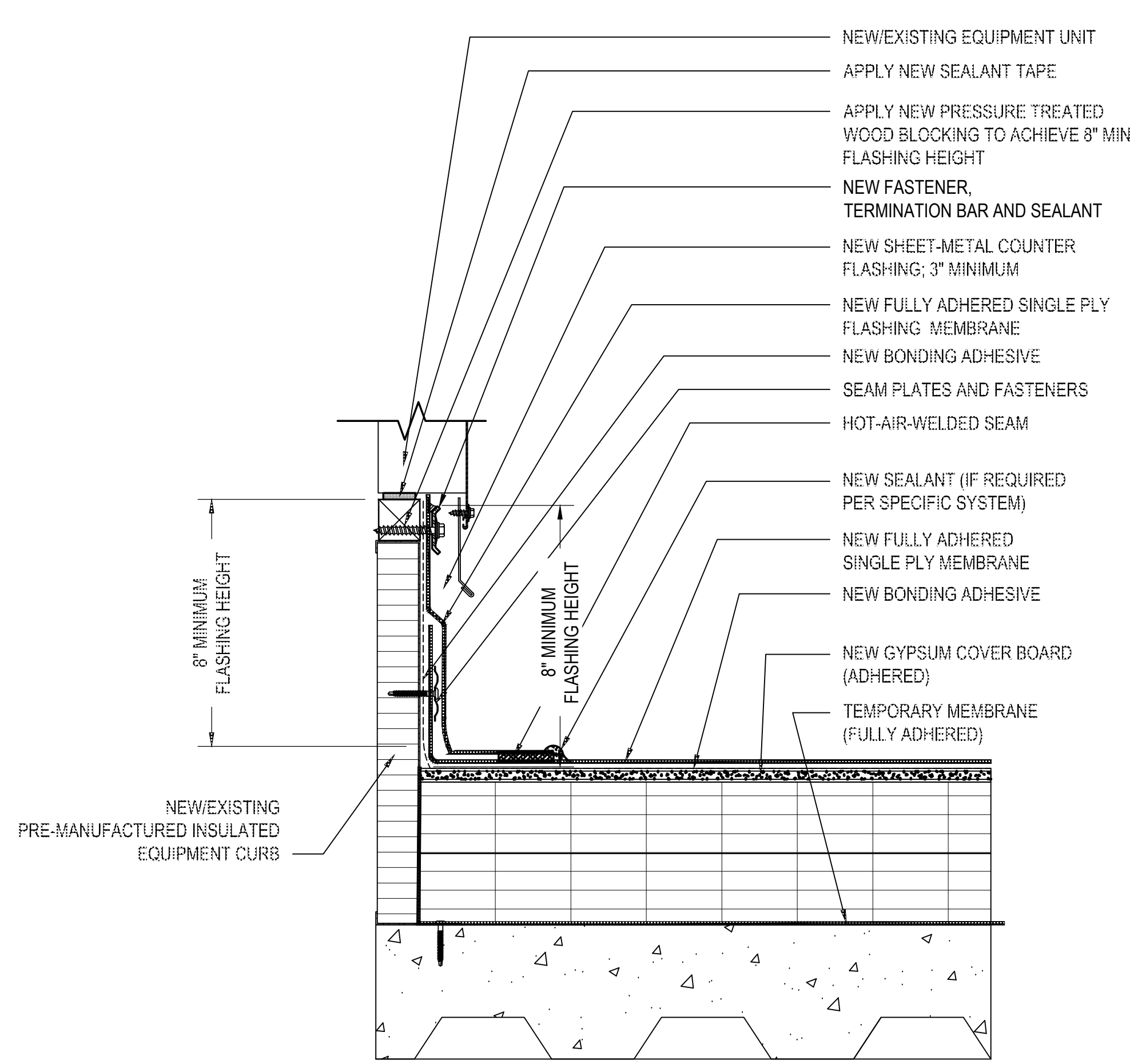
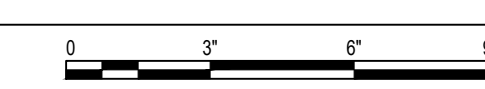
SHEET NUMBER

**A-505**

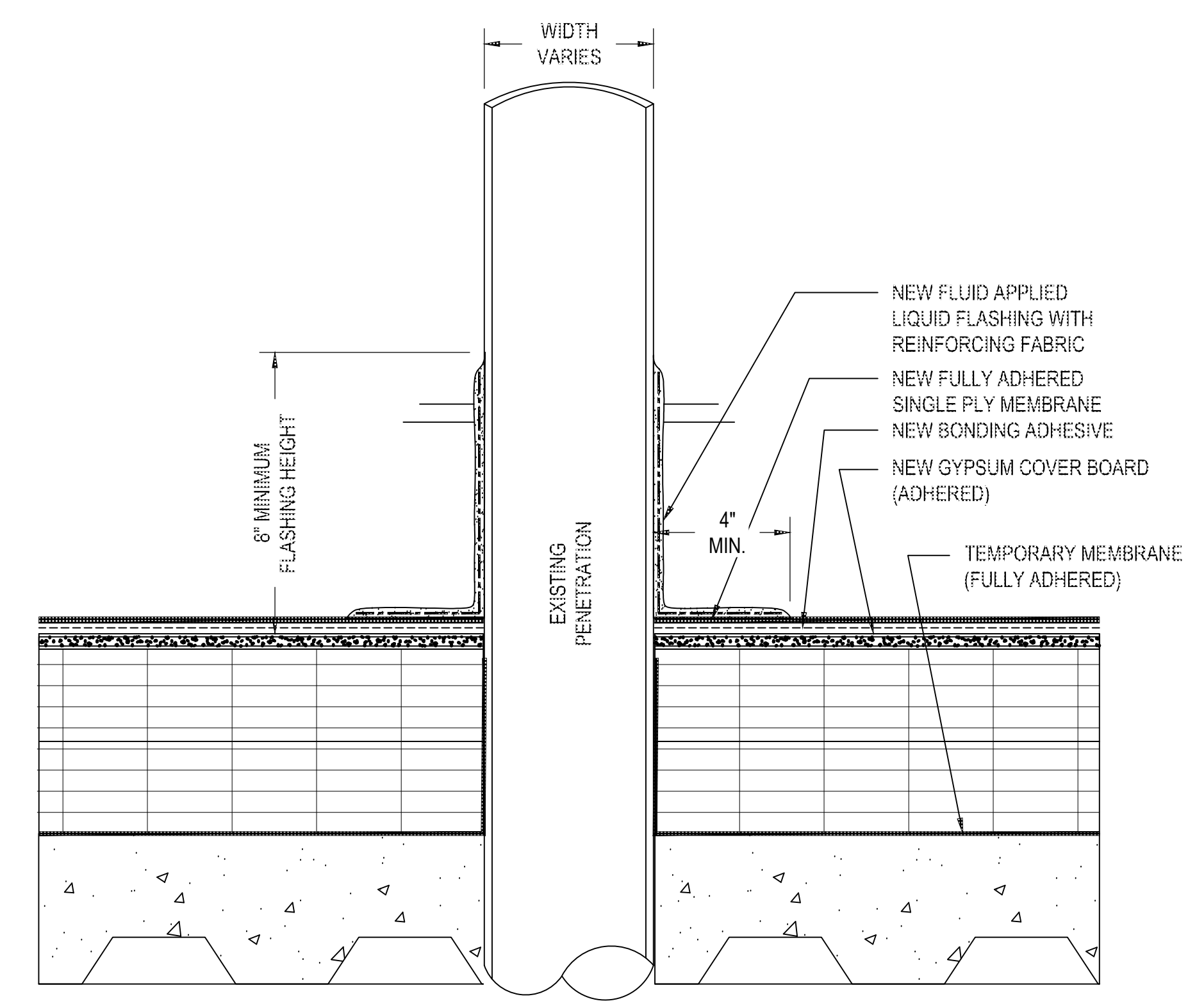
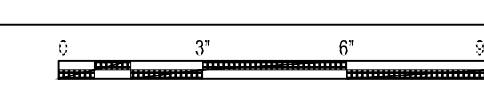
**GENERAL DETAIL NOTE:**  
CRICKETS NOT SHOWN FOR CLARITY



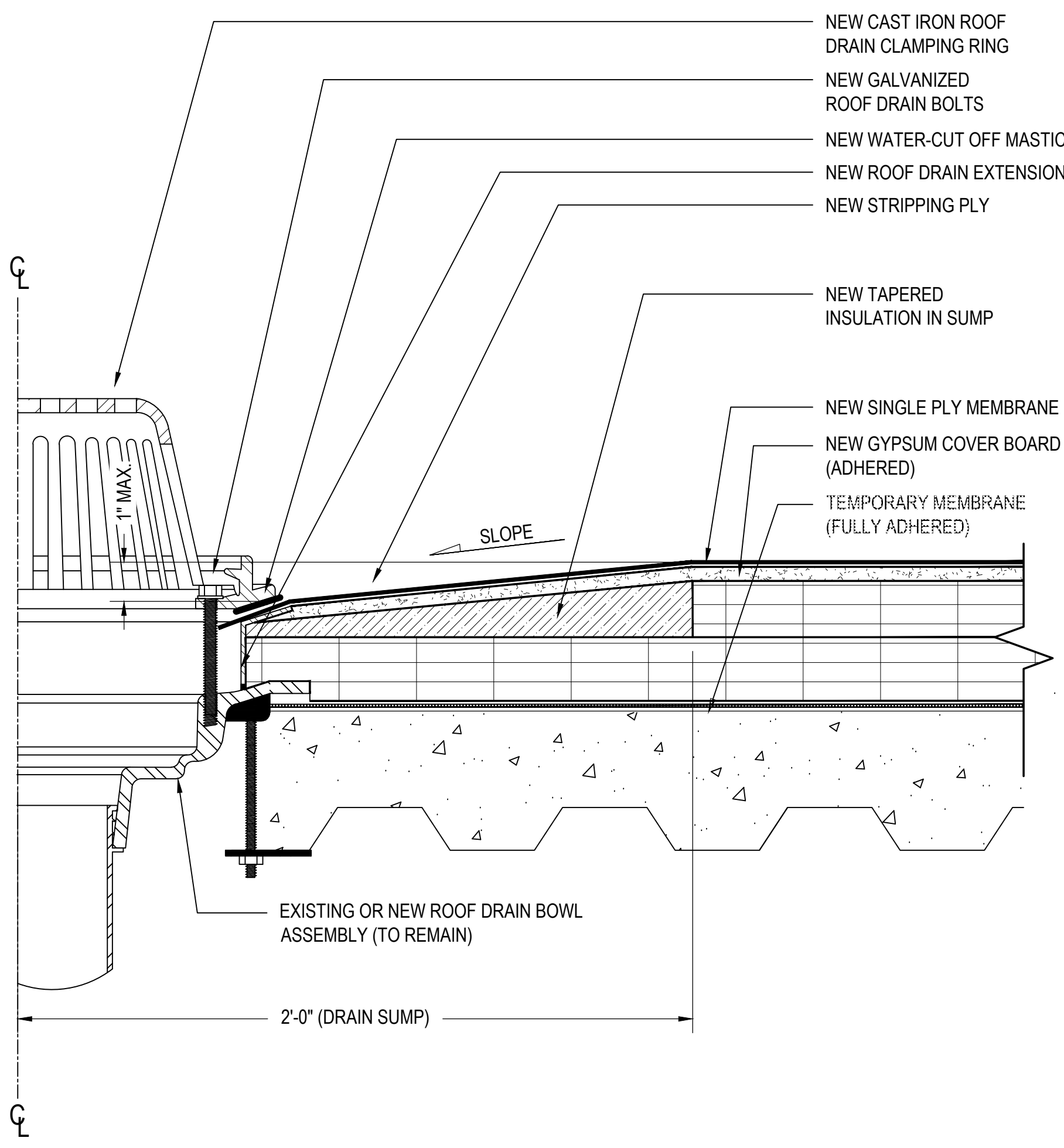
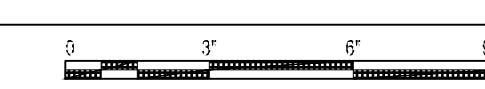
1 ROOF/SMOKE HATCH DETAIL



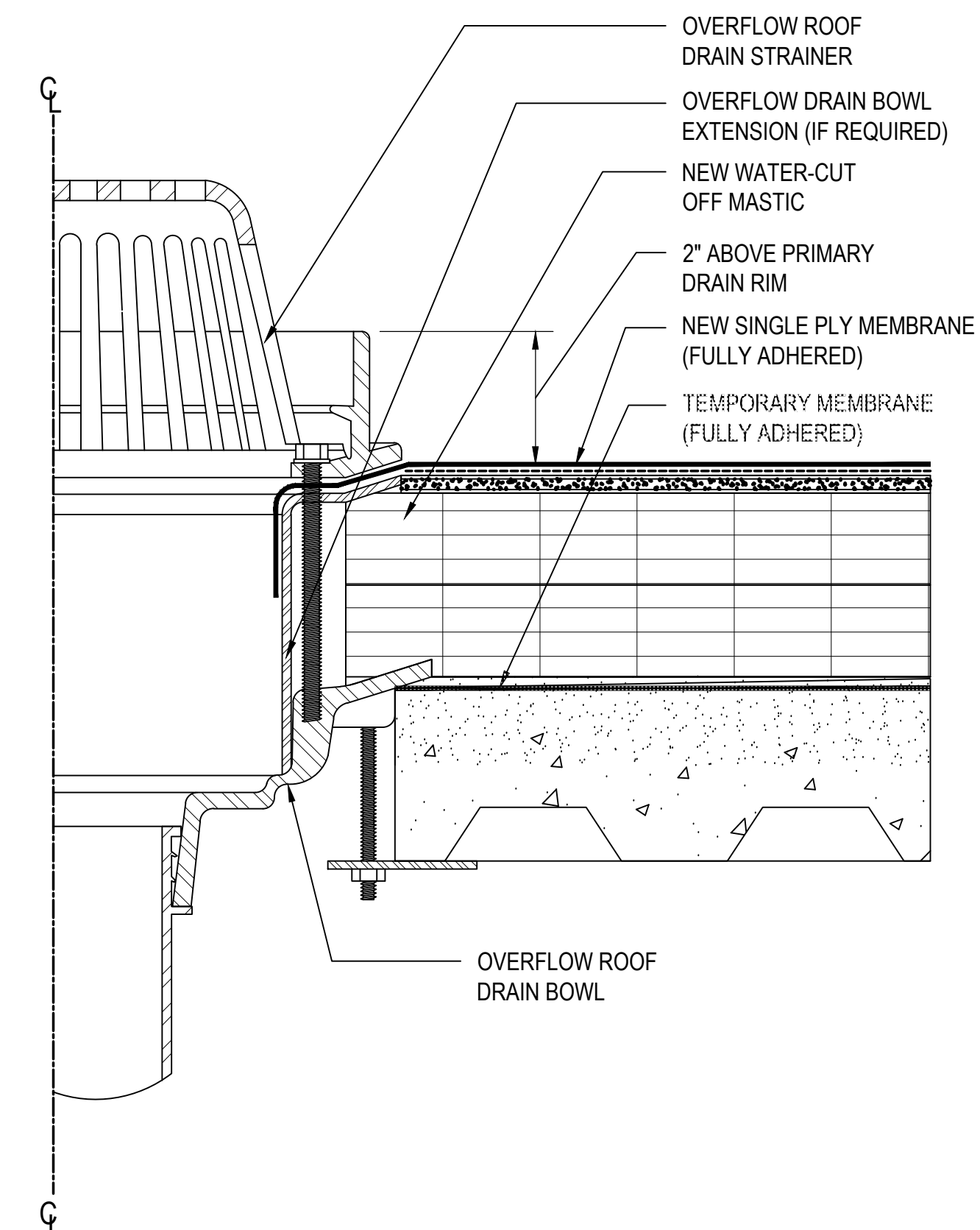
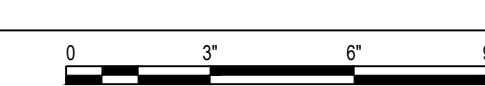
2 PRE-MANUFACTURED CURB DETAIL



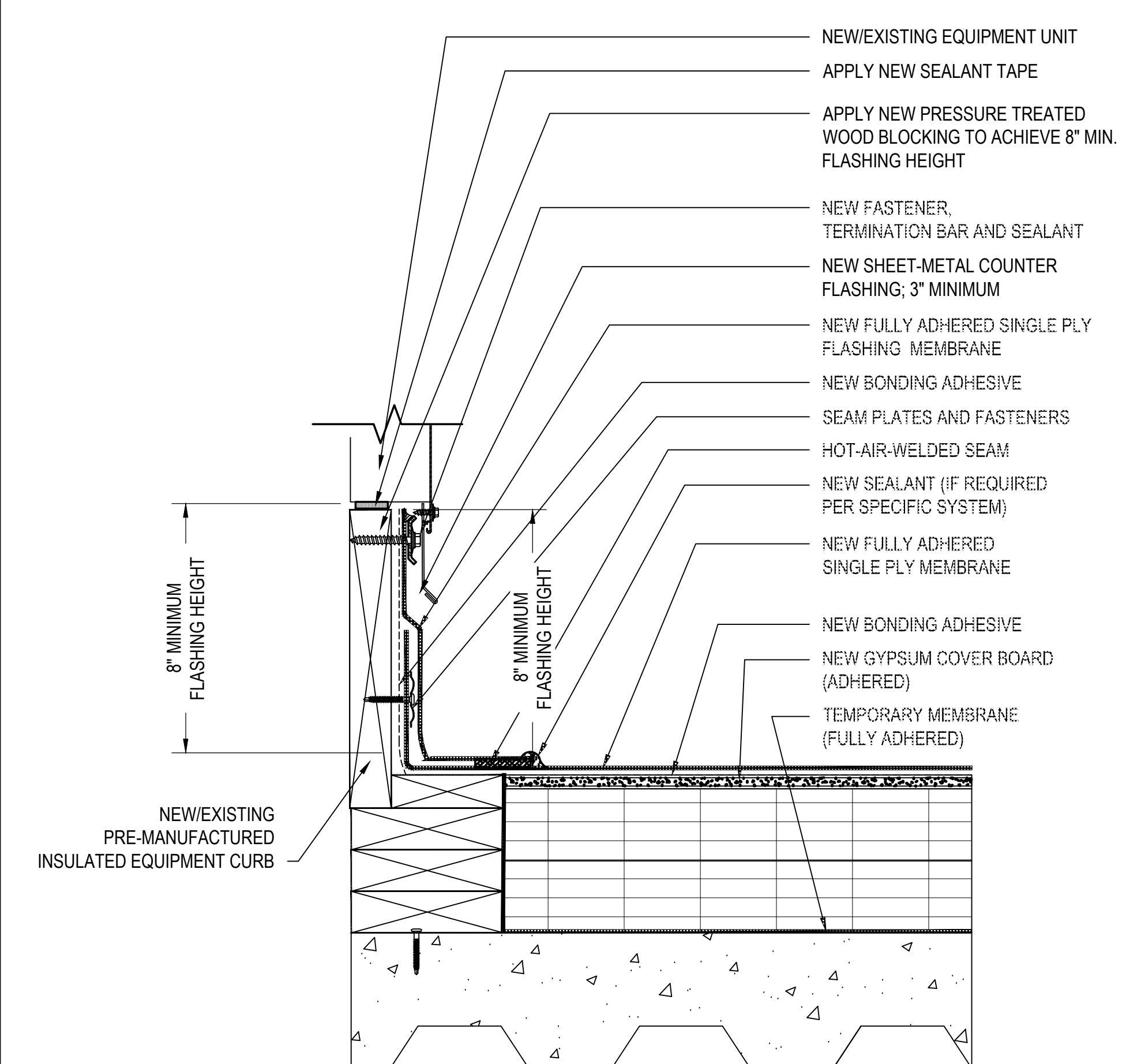
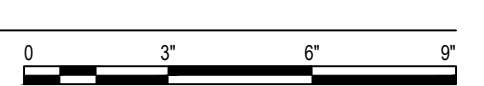
3 FLUID APPLIED PENETRATION



4 TYPICAL ROOF DRAIN

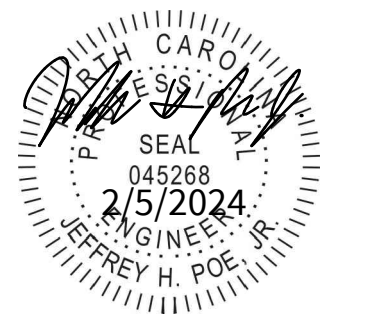


5 TYPICAL OVERFLOW ROOF DRAIN DETAIL



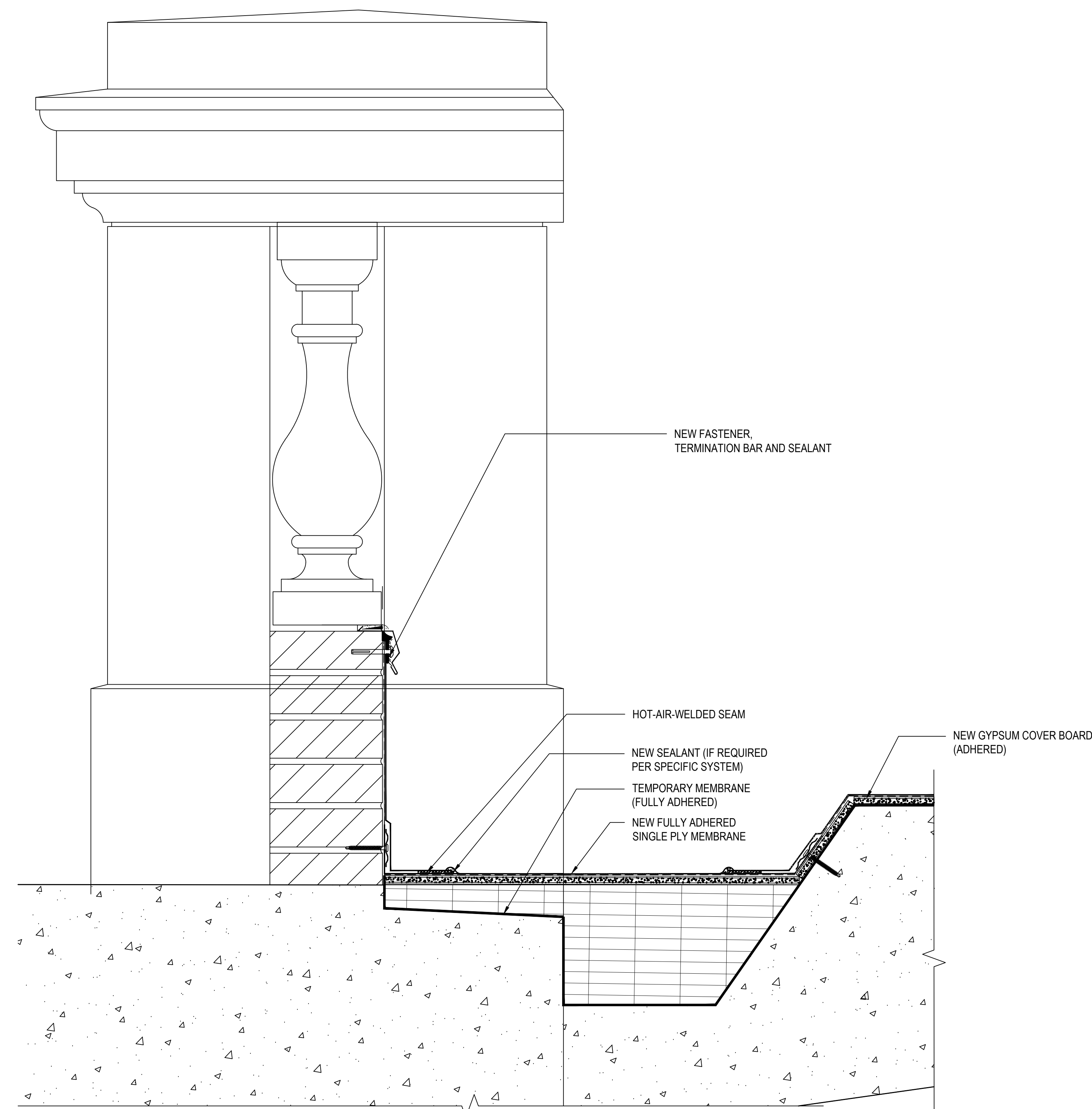
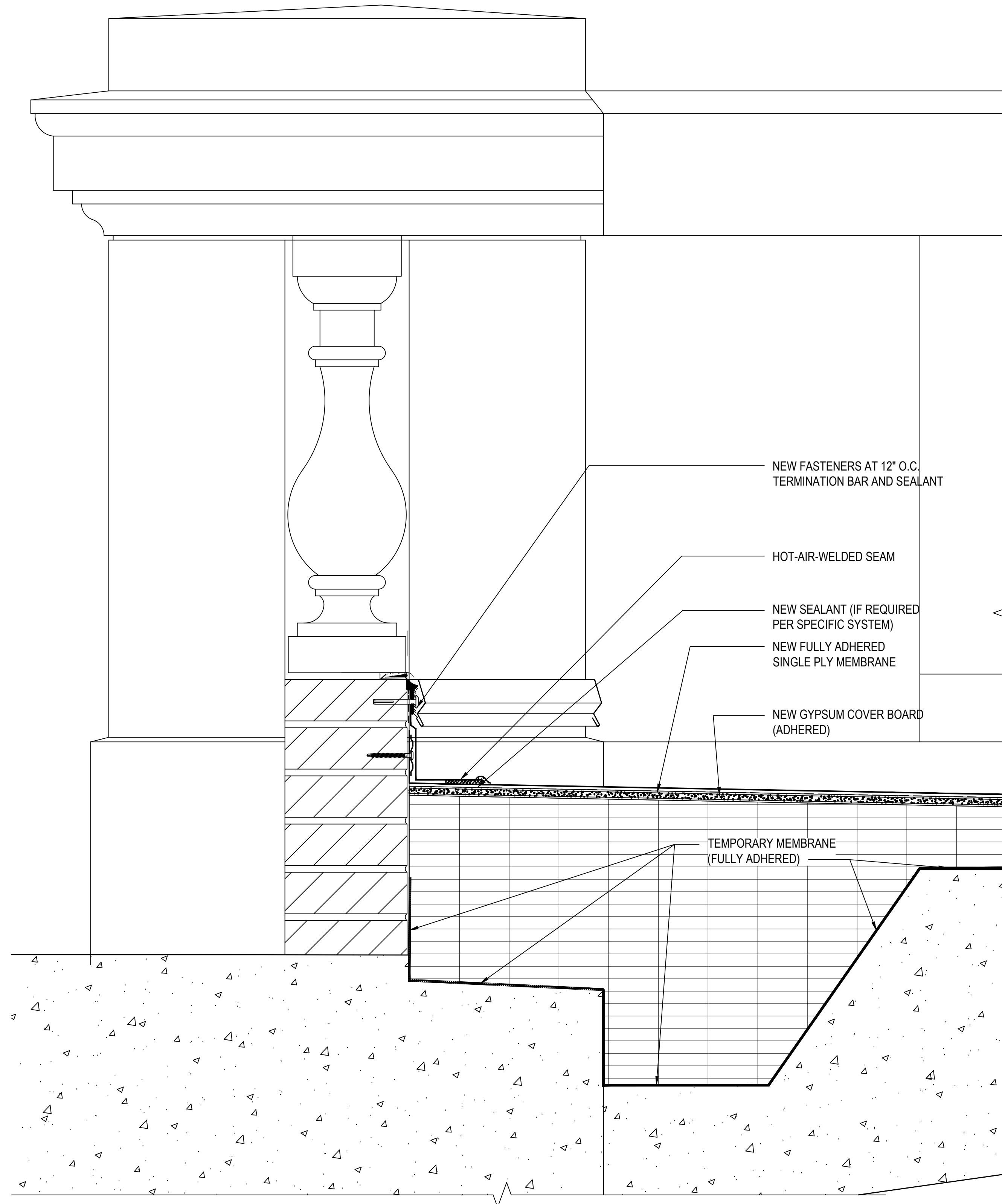
6 WOOD CURB DETAIL





MEMORIAL HALL ROOF REPLACEMENT PROJECT  
SCO ID NO. 22-25151-01A  
**THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**  
110 E Cameron Ave., Chapel Hill, NC 27514

ROOF DETAILS



1 AREA 9 NORTH  
3"=1'-0"

2 AREA 9 EAST AND WEST  
3"=1'-0"

REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

TERRACON PROJECT NUMBER:  
FJ226041

DESIGNED BY: JHP

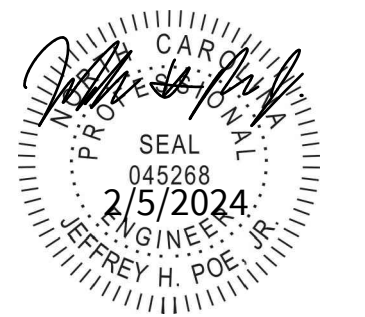
DRAWN BY: DSK

APPROVED BY: MLB

- ISSUE FOR:
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02.05.2024

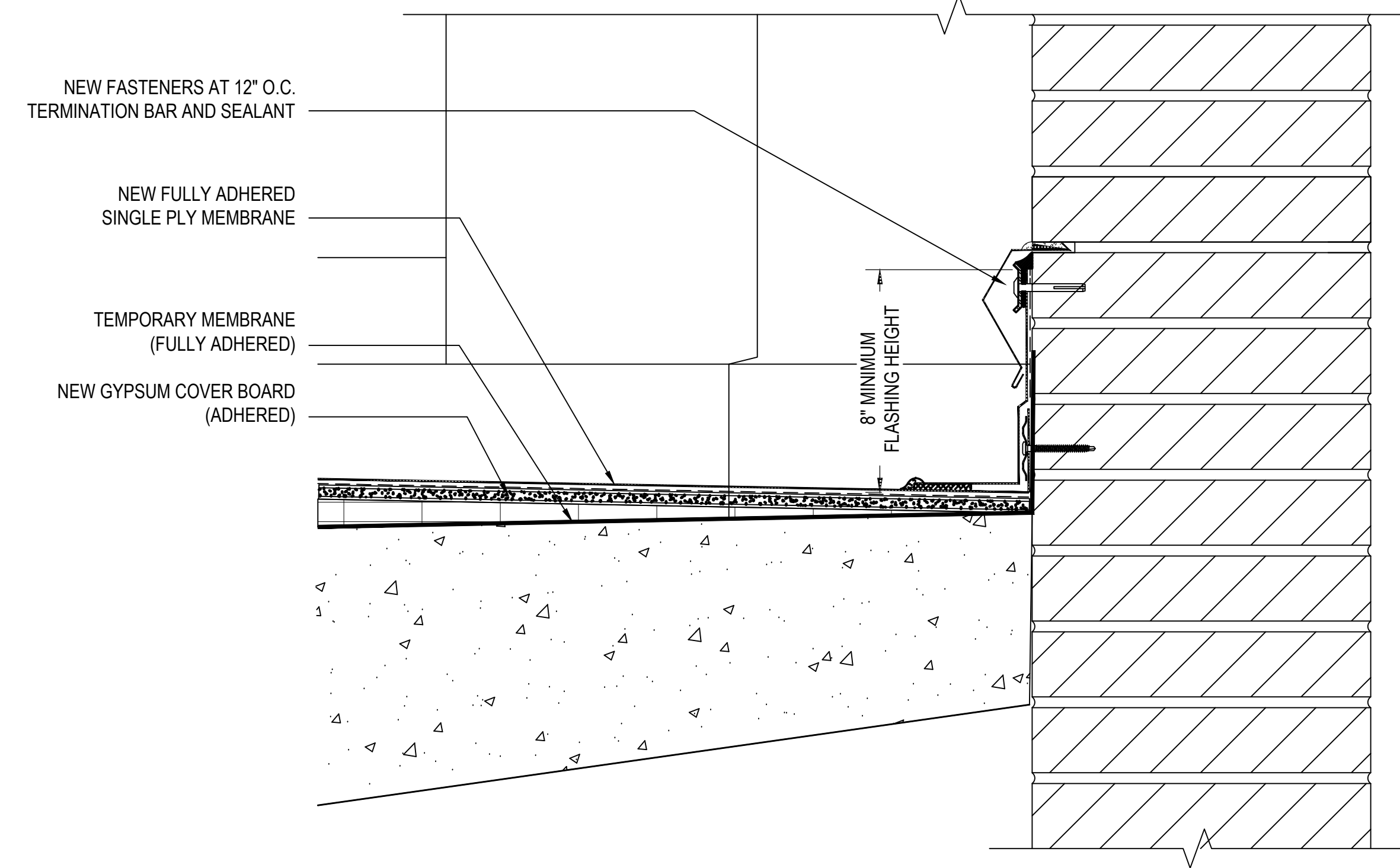
SHEET NUMBER  
**A-506**



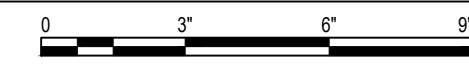
MEMORIAL HALL ROOF REPLACEMENT PROJECT  
SCO ID NO. 22-25151-01A

**THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**  
110 E Cameron Ave., Chapel Hill, NC 27514

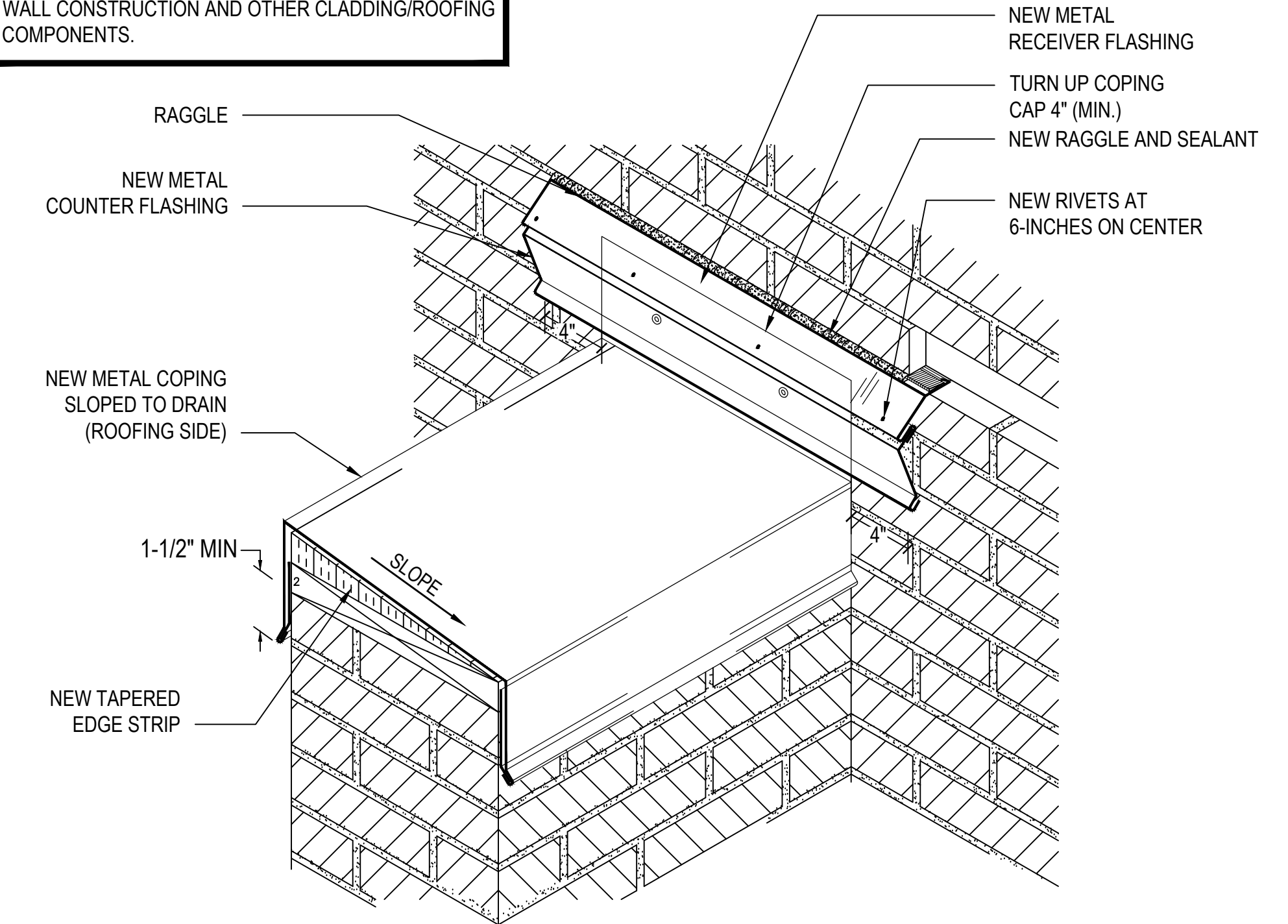
ROOF DETAILS



**1** AREA 9 SOUTH  
3/8"=1'-0"

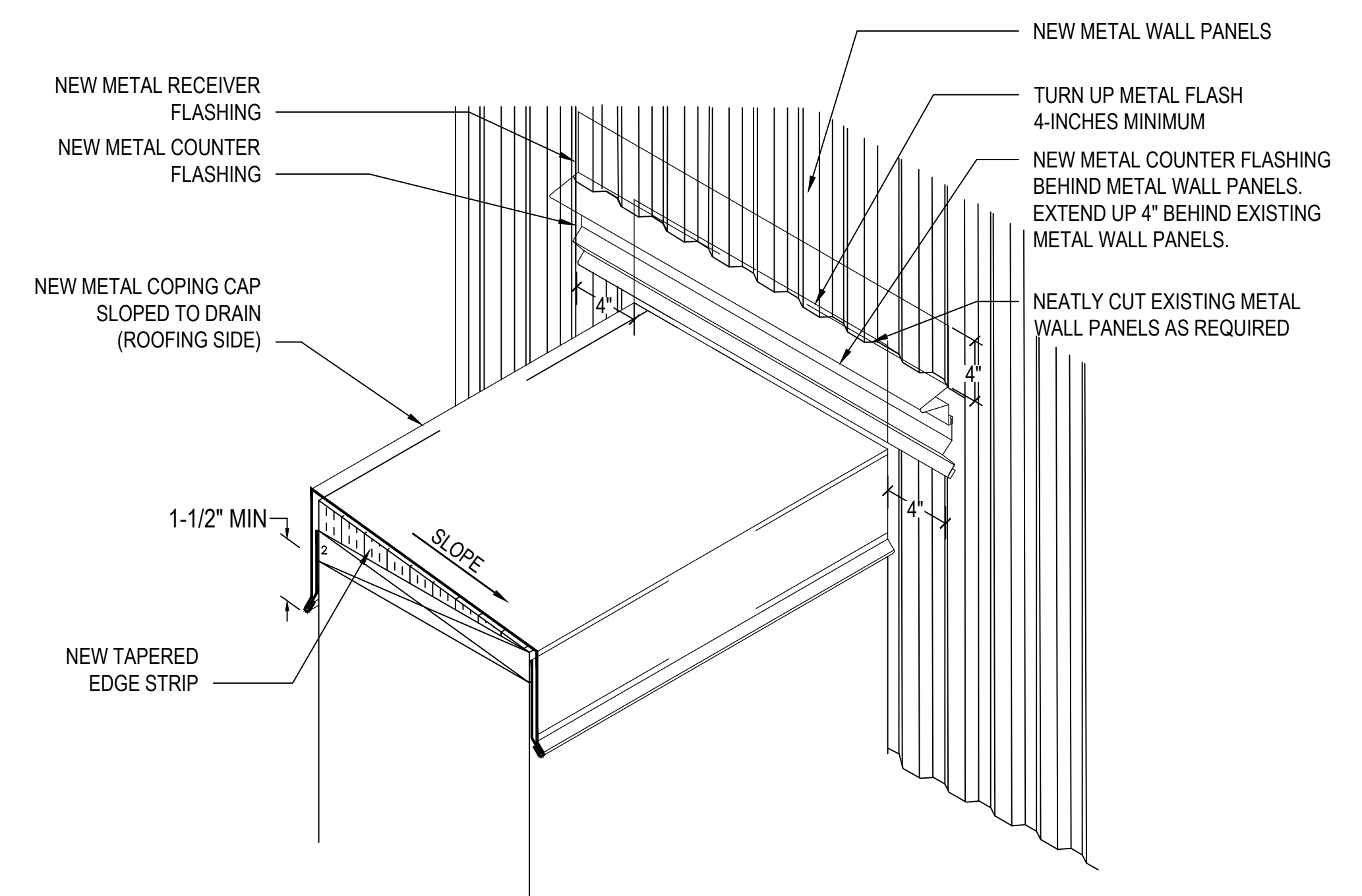


NOTE:  
THIS DETAIL IS TO SHOW COPING CAP TERMINATION FLASHING. REFER TO OTHER DETAILS FOR ACTUAL WALL CONSTRUCTION AND OTHER CLADDING/ROOFING COMPONENTS.

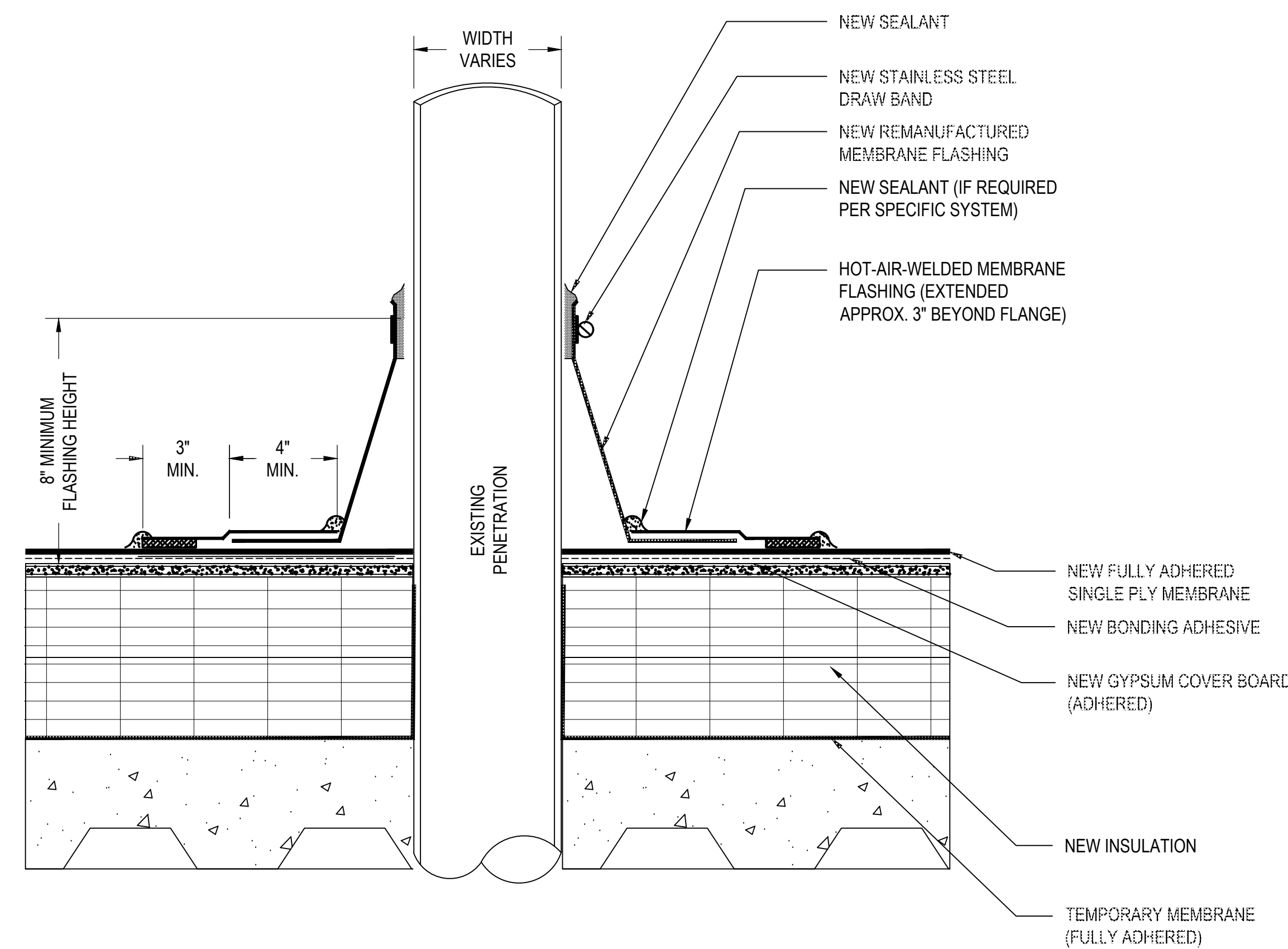


**2** COPING CAP TERMINATION (MASONRY)  
NTS

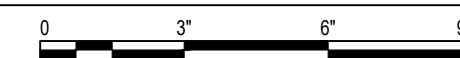
NOTE:  
THIS DETAIL IS TO SHOW COPING CAP TERMINATION FLASHING. REFER TO OTHER DETAILS FOR ACTUAL WALL CONSTRUCTION AND OTHER CLADDING/ROOFING COMPONENTS.



**6** COPING CAP TERMINATION (METAL PANEL)  
NTS



**5** MANUFACTURED PIPE BOOT FLASHING PENETRATION DETAIL  
3/8"=1'-0"



REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

TERRACON PROJECT NUMBER:  
FJ226041

DESIGNED BY: JHP

DRAWN BY: DSK

APPROVED BY: MLB

- ISSUE FOR:
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  - PERMITTING / BIDDING
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  - RECORD DRAWINGS

ISSUE DATE:  
02.05.2024

SHEET NUMBER

**A-507**