



2701 Westport Road
Charlotte, NC 28208

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Terracon.com

Project: Specifications for Roof Areas A3, A5, and B1, Roof Replacement Project,
Alexander Graham Middle School, Charlotte, North Carolina

Agency: Charlotte Mecklenburg Schools

Designer: Terracon Consultants, Inc.

Project No. FH226305

Date: January 26, 2024

ADDENDUM NO. 1

The Project Manual entitled: "Specifications for Roof Areas A3, A5, and B1, Roof Replacement Project, Alexander Graham Middle School, Charlotte, North Carolina" dated January, 2024 are amended as follows:

ADVERTISEMENT FOR BIDS

1. Delete the Advertisement for Bids in its entirety and replace with the attached.

SPECIFICATIONS

1. Section 075216 Bituminous Built-Up Roofing, Table 3-1, at Roof Areas A3 and A5 – add 5/8 inch Gypsum Underlayment to be installed at the roof deck.
2. Section 075216 Bituminous Built-Up Roofing, section 2.4 SBS-Modified Asphalt Sheet Materials, paragraphs A., B., - Type I or Type II sheets are acceptable.
3. Section 075216 Bituminous Built-Up Roofing, section 2.5 Base Flashing Sheet Materials, paragraphs A., B., - Type I or Type II sheets are acceptable.

DRAWINGS

1. Reference attached Drawings for amended changes.

Bidder must acknowledge receipt of the Addendum in the box(es) provided on the Bid Form. Failure to acknowledge may be grounds for rejection of the bid. Nothing herein is to be interpreted or construed as changing any provisions of the specifications except as specifically stated herein.

Attachments: Advertisement For Bids

Amended Drawing Sheets: G101, G102, A-201, A-301, A-302, A-303, A-304

END OF ADDENDUM

Explore with us

ADVERTISEMENT FOR BIDS

Sealed proposals will be received until 1:00 p.m. on January 30, 2024, at Charlotte-Mecklenburg Schools, 3301 Stafford Drive, Charlotte, NC 28208, for the Alexander Graham Middle School, Partial Roof Replacement Project, Charlotte, North Carolina, at which time and place bids will be opened and read. Bids are to be delivered to: Yolanda Ferguson, at the above address and time.

Complete plans and specifications for this project can be obtained from Terracon Consultants, Inc., 2701 Westport Road, Charlotte, North Carolina 28208. Please contact Vicky Neal at Vicky.Neal@Terracon.com, for a link to the Specifications and Drawing. They will also be available for viewing at the following locations:

- Electronic Plan Rooms of: McGraw Hill Dodge, ConstructConnect

A Prebid Meeting will be held at Alexander Graham Middle School, 1800 Runnymede Avenue, Charlotte, North Carolina 28031, at 1:00 p.m. on Tuesday, January 16, 2024.

Qualified Minority-Owned Contractors are encouraged to bid.

Plan Deposit of \$100.00 is required for hard copies. There is no charge for electronic copies.

The state reserves the unqualified right to reject any and all proposals.



Charlotte Mecklenburg Schools ALEXANDER GRAHAM MIDDLE SCHOOL ROOF REPLACEMENT PROJECT

PROJECT ADDRESS:
1800 RUNNYMEDE LANE
CHARLOTTE, NC 28211

INDEX OF DRAWINGS

GENERAL

G-101 COVER SHEET
G-102 CODE SHEET

ARCHITECTURAL

A-101 PARTIAL ROOF PLAN - AREAS A3, A5 & B1
A-201 WIND ZONE PLAN - AREAS A3, A5 & B1
A-301 DETAILS
A-302 DETAILS
A-303 DETAILS
A-304 DETAILS

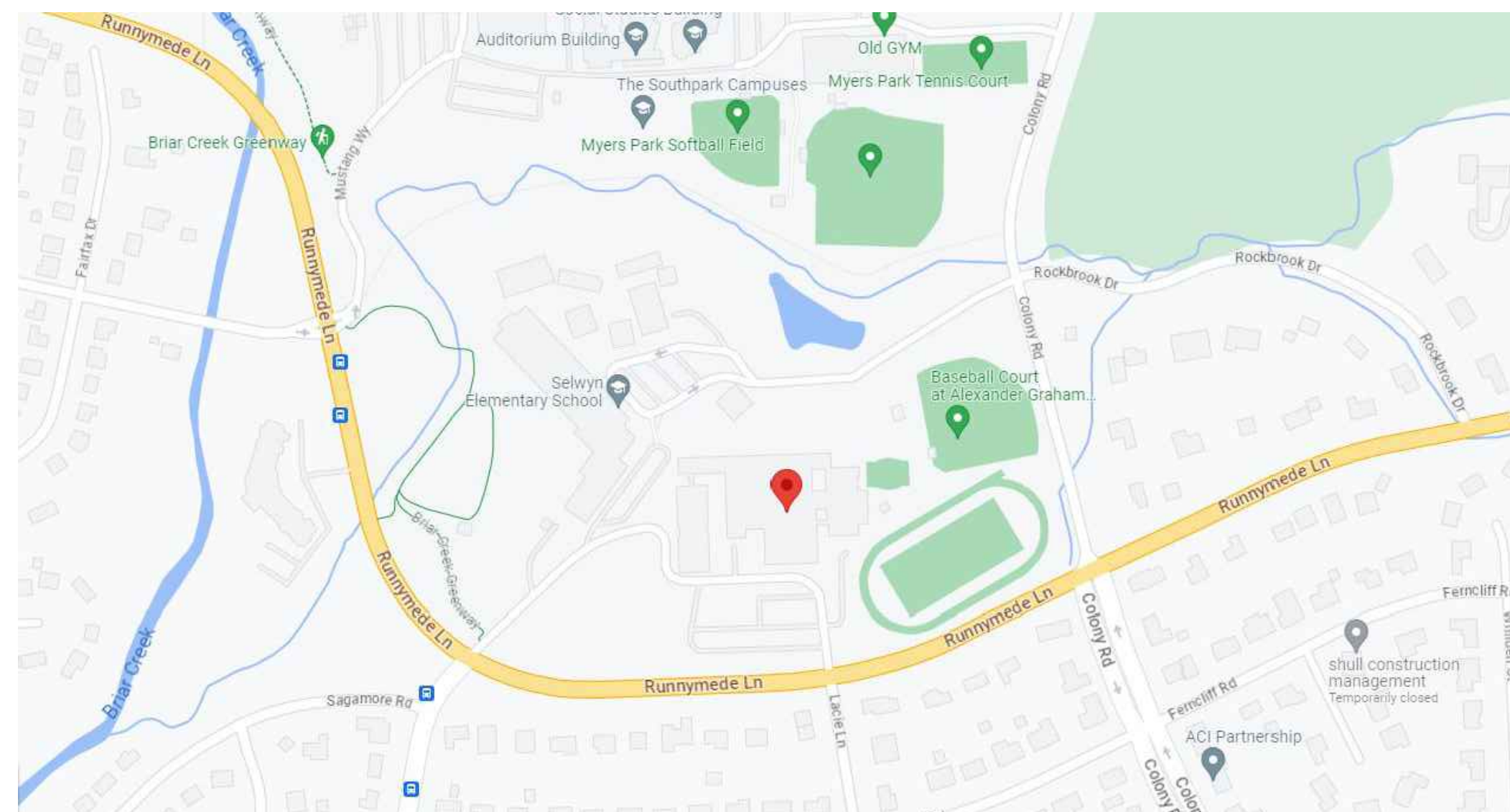


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CHARLOTTE, NC 28208
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TERRACON NC LICENSE NO. F-0869

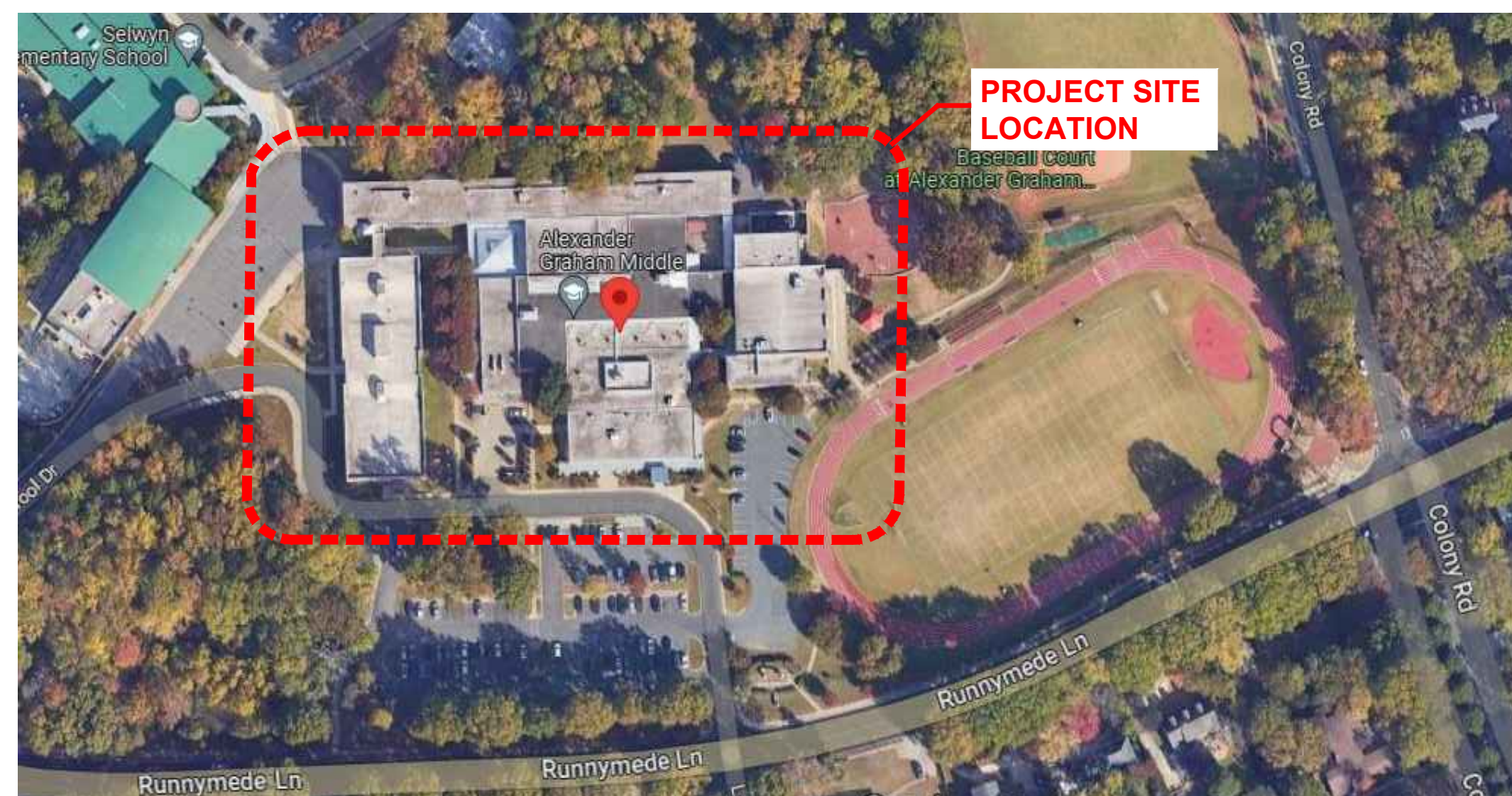
ENGINEER STATE LICENSE SEAL

CHARLOTTE MECKLENBURG SCHOOLS
ALEXANDER GRAHAM MIDDLE SCHOOL
ROOFING REPLACEMENT PROJECT
ROOF AREA A3, A5, & B1
1800 RUNNYMEDE LANE CHARLOTTE, NC 28211
COVER SHEET

PROJECT LOCATION



VICINITY MAP



ABBREVIATIONS

TYP. TYPICAL
CONT. CONTINUOUS
O/C ON CENTER
VERT. VERTICAL
HORIZ. HORIZONTAL
S.S. STAINLESS STEEL
P.T. PRESSURE TREATED
T.W.F. THROUGH-WALL FLASHING
S.S.M. STANDING SEAM METAL
CMU CONCRETE MASONRY UNIT

DETAILS/ELEVATIONS/SECTION IDENTIFIER

X ELEVATION/DETAIL/SECTION LABEL
XXX SHEET SHOWN ON

N.I.C. IDENTIFIES ROOF AREAS NOT IN SCOPE OF WORK

CLIENT

CHARLOTTE MECKLENBURG SCHOOLS
3301 Stafford Drive
Charlotte, NC 28208

ENGINEERING CONSULTANT

TERRACON CONSULTANTS, INC.
2701 Westport Rd
Charlotte, NC 28208

PROJECT CONTACT:

Carlos González, LEED AP BD+C, GRP, RRO, RWC
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REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

TERRACON PROJECT NUMBER:
FH226305

DESIGNED BY: CLG

DRAWN BY: SWP

APPROVED BY: JHP

ISSUE FOR:

- REVIEW / PRICING DOCUMENTS
NOT FOR CONSTRUCTION
- SURVEY REPORT - REPAIR DOCUMENTS
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NOT FOR CONSTRUCTION
- CONSTRUCTION DOCUMENTS
- ADDENDUM SUBMITTAL
- RECORD DRAWINGS

ISSUE DATE:
1-11-2024

SHEET NUMBER

G-101

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

Name of Project: ALEXANDER GRAHAM MIDDLE SCHOOL - ROOF REPLACEMENT PROJECT
Address: 1800 RUNNYMEDE AVENUE - CHARLOTTE, NC 28211
Proposed Use: N/A
Owner or Authorized Agent: WILLIAM WOOTEN Phone # 980-722-5736 Email: williamj.wooten@cms.k12.nc.us
Owned By: MECKLENBURG COUNTY City/County Private State
Code Enforcement Jurisdiction: City N/A County N/A

LEAD DESIGN PROFESSIONAL: TERRACON CONSULTANTS, INC

DESIGNER FIRM	NAME	LICENSE #	TELEPHONE #
Architectural	N/A	N/A	(N/A) N/A
Civil	N/A	N/A	(N/A) N/A
Electrical	N/A	N/A	(N/A) N/A
Fire Alarm	N/A	N/A	(N/A) N/A
Plumbing	N/A	N/A	(N/A) N/A
Mechanical	N/A	N/A	(N/A) N/A
Sprinkler-Standpipe	N/A	N/A	(N/A) N/A
Structural	N/A	N/A	(N/A) N/A
Other	TERRACON CONSULTANTS, INC	JEFF H. POE	045268 828-230-0563

YEAR EDITION OF CODE: 2018 NCEBC
 New Construction Renovation (Existing Bldg) Upfit Roof Repair

CONSTRUCTED: 2003
CURRENT OCCUPANCY(S)(Ch.3) : Education

BUILDING DATA

Construction Type: I-A I-B II-A II-B III-A III-B
 IV V-A V-B
Mixed construction: No Yes Types N/A
Sprinklers: No Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I II III Wet Dry
Fire District: No Yes Feet N/A Number of Stories Unlimited per N/A
Building Height: N/A
Mezzanine: No Yes
High Rise: No Yes Central Reference Sheet # (if provided) N/A
Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor	N/A	N/A	N/A
2nd Floor	N/A	N/A	N/A
Mezzanine	N/A	N/A	N/A
1st Floor	N/A	N/A	N/A
Basement	N/A	N/A	N/A
TOTAL	N/A	N/A	N/A

GROSS LINEAR FOOTAGE OF THROUGH-WALL TO ROOF FLASHING (LF):

STORIES	AREA A: SOUTHWEST WALL	TOTAL
75'		75'

NO CHANGE STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors: Wind (Iw) N/A Snow (Is) N/A Seismic (Is) N/A

Live Loads: Roof 20 psf Mezzanine N/A psf Floor N/A psf

Snow Load: N/A psf

Wind Load: Basic Wind Speed N/A mph (ASCE-7-10) Exposure Category N/A Wind Base Shears (for MWFRS) Vx = N/A Vy = N/A

Dead Loads: Existing Dead Load: 9.3 lbs/ft2 New Dead Load: 7.5 lbs/ft2 Difference: -1.8 lbs/ft2

SEISMIC DESIGN CATEGORY: N/A
Compliance with Section 1616.4 only? YES NO
SEISMIC DESIGN CATEGORY B, C, & D
Provide the following Seismic Design Parameters:
Seismic Use Group N/A
Spectral Response Acceleration S_{vis} N/A %g S_{vii} N/A %g
Site Classification N/A
Basic structural system (check one)
N/A Bearing Wall N/A Dual w/Special Moment Frame
N/A Building Frame N/A Dual w/Intermediate R/C or Special Steel
N/A Moment Frame N/A Inverted Pendulum
Seismic base shear V_x = N/A Y_y = N/A
Analysis Procedure N/A Simplified N/A Equivalent Lateral Force N/A Modal
Architectural, Mechanical, Components anchored?
LATERAL DESIGN CONTROL: Earthquake N/A Wind N/A
SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) N/A psf
Presumptive Bearing capacity N/A psf
File size, type, and capacity N/A

NO CHANGE PLUMBING FIXTURE REQUIREMENTS

OCCUPANCY	WATERCLOSETS		LAVATORIES		SHOWERS/TUBS		DRINKING FOUNTAINS	
	MALE	FEMALE	MALE	FEMALE	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NO CHANGE ACCESSIBLE PARKING

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACE WITH 8' ACCESS AISLE	
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
TOTAL	N/A	N/A	N/A	N/A	N/A

ALLOWABLE AREA

Primary Occupancy: Assembly A-1 A-2 A-3 A-4 A-5
 Business Educational Factory-Industrial F-1 F-2
 High-Hazard H-1 H-2 H-3 H-4 H-5
 Institutional I-1 I-2 I-3 I-4 I-5
1-3 Use Condition 1 2 3 4 5
 Mercantile Residential R-1 R-2 R-3 R-4
 Storage S-1 S-2 High-piled
 Utility and Miscellaneous Parking Garage Open Enclosed Repair

Secondary Occupancy: N/A
Special Occupancy: 508.2 508.3 508.4 508.5 508.6 508.7 508.8
Mixed Occupancy: No Yes Separation: N/A Hr. Exception: N/A

Non-Separated Mixed Occupancy (303.1 Exception)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

Separated Mixed Occupancy (303.1/303.2) - See below for area calculations
For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Actual Area of Occupancy A + Actual Area of Occupancy B ≤ 1
Allowable Area of Occupancy A + Allowable Area of Occupancy B ≤ 1.00
N/A + N/A ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 ^a AREA	(C) AREA FOR OPEN SPACE INCREASE ¹	(D) AREA FOR SPRINKLER INCREASE ²	(E) ALLOWABLE AREA OR UNLIMITED ³	(F) MAXIMUM BUILDING AREA*
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

- Open space area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = N/A (F)
b. Total Building Perimeter = N/A (P)
c. Ratio (F/P) = N/A (F/P)
d. W = Minimum width of public way = (W)
e. Percent of frontage increase I_r = 100 [F/P - 0.25] x W/30 = N/A (%)
- The sprinkler increase per Section 506.3 is as follows:
a. Multi-story building I_r = 200 percent
b. Single story building I_r = 300 percent
- Unlimited area applicable under conditions of Sections Group B, F, M, S, A-4 (507.1, 507.2, 507.3, 507.5); Group A motion picture (507.8); Malls (402.6); and H-2 aircraft paint hangars (507.6).
- Maximum Building Area = total number of stories in the building x E but not greater than 3 x E.
- The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, SBCCI, ICC, etc., describe below)
N/A

ENERGY REQUIREMENTS

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If energy cost budget method, state the annual energy cost budget vs allowable annual energy cost budget.

ENERGY SUMMARY

Method of Compliance:
 Prescriptive Performance Energy Cost Budget

THERMAL ENVELOPE

Roof/Ceiling Assembly (each assembly)
Description of assembly: See typical new roof assembly on drawing sheet G-102
U-Value of total assembly: NO CHANGE
R-Value of insulation: INCREASE TO R=25
 Skylights in each assembly
U-Value of skylight: NO CHANGE
Total square footage of skylights in each assembly: NO CHANGE

Exterior Walls (each assembly)
Description of assembly
U-Value of total assembly
R-Value of insulation
Openings (windows or doors with glazing)
U-Value of assembly shading coefficient
projection factor
Low e required, if applicable

Door R-Values

Walls adjacent to unconditioned space (each assembly)
Description of assembly
U-Value of total assembly
R-Value of insulation
Openings (windows or doors with glazing)
U-Value of assembly
Low e required, if applicable

Door R-Values

Walls below grade (each assembly)
Description of Assembly
U-Value of total assembly
R-Value of insulation
Horizontal/vertical requirement
slab heated

Floors over unconditioned space (each assembly)
Description of assembly
U-Value of total assembly
R-Value of insulation

Floors slab on grade
Description of assembly
U-Value of total assembly
R-Value of insulation

NO CHANGE ALLOWABLE HEIGHT

Type of Construction	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Building height in feet	Feet N/A	Feet=H+20"= N/A	Type N/A	
Building Height in Stories	Stories N/A	Stories+1= N/A	Stories	

FIRE PROTECTION REQUIREMENTS

Life Safety Plan Sheet#, if Provided _____

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D (W/REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural frame, including columns, girders, trusses						
Bearing walls	N/A	N/A	N/A	N/A	N/A	N/A
Exterior	N/A	N/A	N/A	N/A	N/A	N/A
North	N/A	N/A	N/A	N/A	N/A	N/A
East	N/A	N/A	N/A	N/A	N/A	N/A
West	N/A	N/A	N/A	N/A	N/A	N/A
South	N/A	N/A	N/A	N/A	N/A	N/A
Interior	N/A	N/A	N/A	N/A	N/A	N/A
Nonbearing walls and partitions						
Exterior						
North	N/A	N/A	N/A	N/A	N/A	N/A
East	N/A	N/A	N/A	N/A	N/A	N/A
West	N/A	N/A	N/A	N/A	N/A	N/A
South	N/A	N/A	N/A	N/A	N/A	N/A
Interior	N/A	N/A	N/A	N/A	N/A	N/A
Floor construction including supporting beams and joist						
Roof construction including supporting beams and joist	N/A					
Shafts-Exit	N/A	N/A	N/A	N/A	N/A	N/A
Shafts-Other	N/A	N/A	N/A	N/A	N/A	N/A
Corridor Separation	N/A	N/A	N/A	N/A	N/A	N/A
Occupancy Separation	N/A	N/A	N/A	N/A	N/A	N/A
Party/Fire Wall Separation	N/A	N/A	N/A	N/A	N/A	N/A
Smoke Barrier Separation	N/A	N/A	N/A	N/A	N/A	N/A
Tenant Separation	N/A	N/A	N/A	N/A	N/A	N/A

* Indicate section number permitting reduction

NO CHANGE ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:
 Prescriptive Performance Energy Cost Budget

Lighting Schedule
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs allowed
total exterior wattage specified vs allowed

Equipment schedules with motors (not used for mechanical systems)
motor horsepower
number of phases
minimum efficiency
motor type
of poles

NO CHANGE MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Method of Compliance:
 Prescriptive Energy Cost Budget

Thermal Zone
winter dry bulb
summer dry bulb
Interior design conditions
winter dry bulb
summer dry bulb
relative humidity

Building heating load
Building cooling load
Mechanical Spacing Conditioning System

Unitary
description of unit
heating efficiency
cooling efficiency
heat output of unit
cooling output of unit

Boiler
total boiler output. If oversized, state reason.

Chiller
total chiller capacity. If oversized, state reason.

List equipment efficiencies
Equipment schedules with motors (mechanical systems)
motor horsepower
number of phases
minimum efficiency
motor type
of poles

NO CHANGE LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: NO YES
Exit Signs: NO YES
Fire Alarm: NO YES
Smoke Detection Systems: NO YES
Panic Hardware: NO YES

NO CHANGE EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS 1-3 (SECTION 1004.1)	
	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1004.2.4)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Corridor dead ends (Section 1004.3.2.3)
Single exits (Table 1005.2.2)
Common Path of Travel (Section 1004.2.5)

EXIT WIDTH

USE GROUP OR SPACE DESCRIPTION	(a) AREA ¹ SQ. FT.	(b) AREA ¹ PER OCCUPANT (TABLE 1003.2.2.2)	(c) EGRESS WIDTH PER OCCUPANT (TABLE 1003.2.3)		(a) EXIT WIDTH (b) 2-3.4.5*		ACTUAL WIDTH SHOWN ON PLANS	
			STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

- See Table 1003.2.2.2 to determine whether net or gross area is applicable. See definition "Area, Gross" and "Area, Net" (Section 1002)
- Minimum stairway width (Section 1003.3.3); min. corridor width (Section 1004.3.2.2); min. door width (Section 1003.3.1)
- Minimum width of exit passage (Section 1005.3.3)
- See Section 1003.2.2.7 for converging exits.
- The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1003.2.3)
- Assembly occupancies (Section 1008)



ENGINEER STATE LICENSE SEAL

CHARLOTTE MECKLENBURG SCHOOLS
ALEXANDER GRAHAM MIDDLE SCHOOL
ROOFING REPLACEMENT PROJECT
ROOF AREA A3, A5, & B1
1800 RUNNYMEDE LANE CHARLOTTE, NC 28211
CODE SHEET

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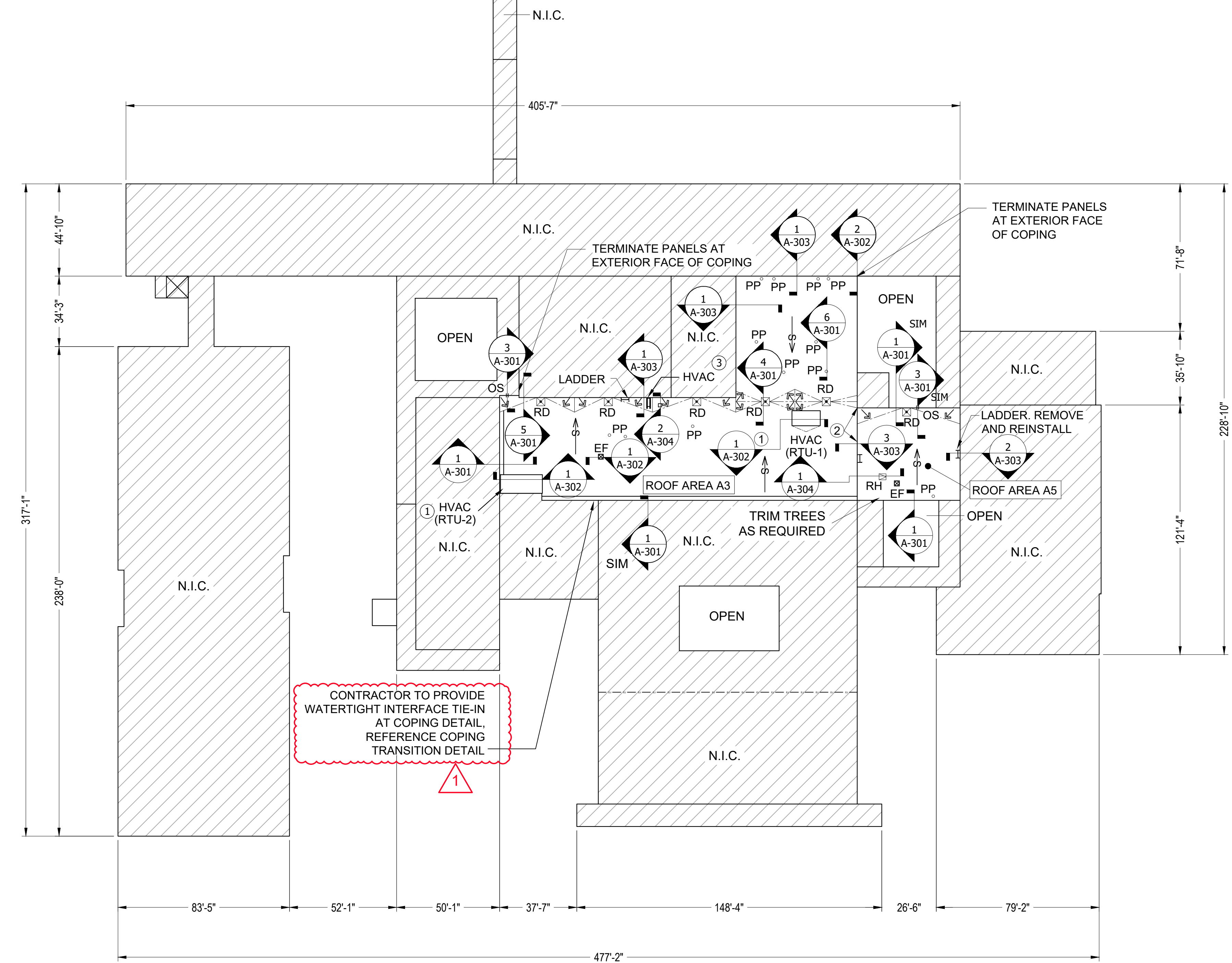
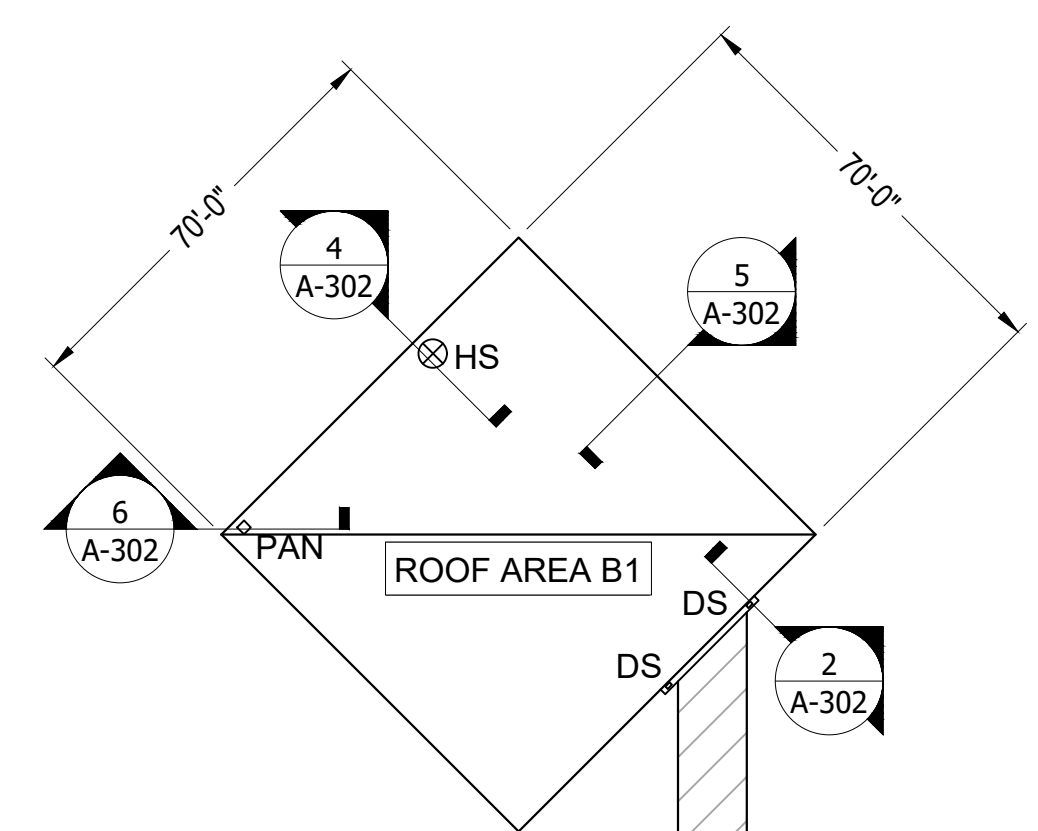
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ISSUE DATE:
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SHEET NUMBER
G-102



CONTRACTOR TO PROVIDE WATERTIGHT INTERFACE TIE-IN AT COPING DETAIL. REFERENCE COPING TRANSITION DETAIL

LEGEND

RD	ROOF DRAIN AND SUMP
PP	PIPE PENETRATION
PAN	POURABLE SEALER PAN
RH	ROOF HATCH
DS	GUTTER AND DOWNSPOUT
EF	EXHAUST FAN
OS	OVERFLOW SCUPPER
L	LADDER
T	TAPERED INSULATION
S	STRUCTURAL SLOPE ARROW
HS	HOT STACK

- KEYED NOTES**
- CONTRACTOR TO LIFT MECHANICAL UNIT AS REQUIRED AND PROVIDE MODIFICATIONS TO UNIT TO ACCOMMODATE NEW FLASHING HEIGHT
 - NEW ROOF CURB WITH BASE FLASHING AND COPING CAP. NEW WOOD BLOCKING AS NEEDED
 - CONTRACTOR TO PROVIDE NEW PRESSURE TREATED WOOD BLOCKING WITH SACRIFICIAL MEMBRANE

NOTE
CONTRACTOR TO FIELD TAPER AS REQUIRED TO ACHIEVE POSITIVE SLOPE TO DRAIN.
EXISTING OVERFLOWS ARE CIRCULAR. CONTRACTOR TO ADJUST OPENINGS FOR OVERFLOW PROVISIONS AS REQUIRED.



ENGINEER STATE LICENSE SEAL

CHARLOTTE MECKLENBURG SCHOOLS
ALEXANDER GRAHAM MIDDLE SCHOOL
 ROOFING REPLACEMENT PROJECT
 ROOF AREA A3, A5, & B1
 1800 RUNNYMEDE LANE CHARLOTTE, NC 28211
 PARTIAL ROOF PLAN - AREAS A3, A5 AND B1

REVISIONS:

NO.	DATE	DESCRIPTION
1	01-25-2024	ADDENDUM 1
2		
3		
4		

TERRACON PROJECT NUMBER:
FH226305

DESIGNED BY: CLG

DRAWN BY: SWP

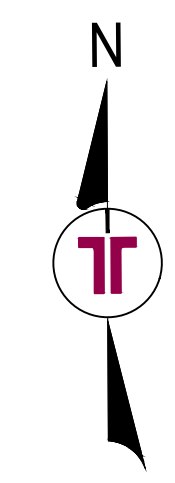
APPROVED BY: JHP

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SHEET NUMBER

A-101



CODE SUMMARY

NORTH CAROLINA BUILDING CODE (2018 EDITION)
 AND ASCE 7-10

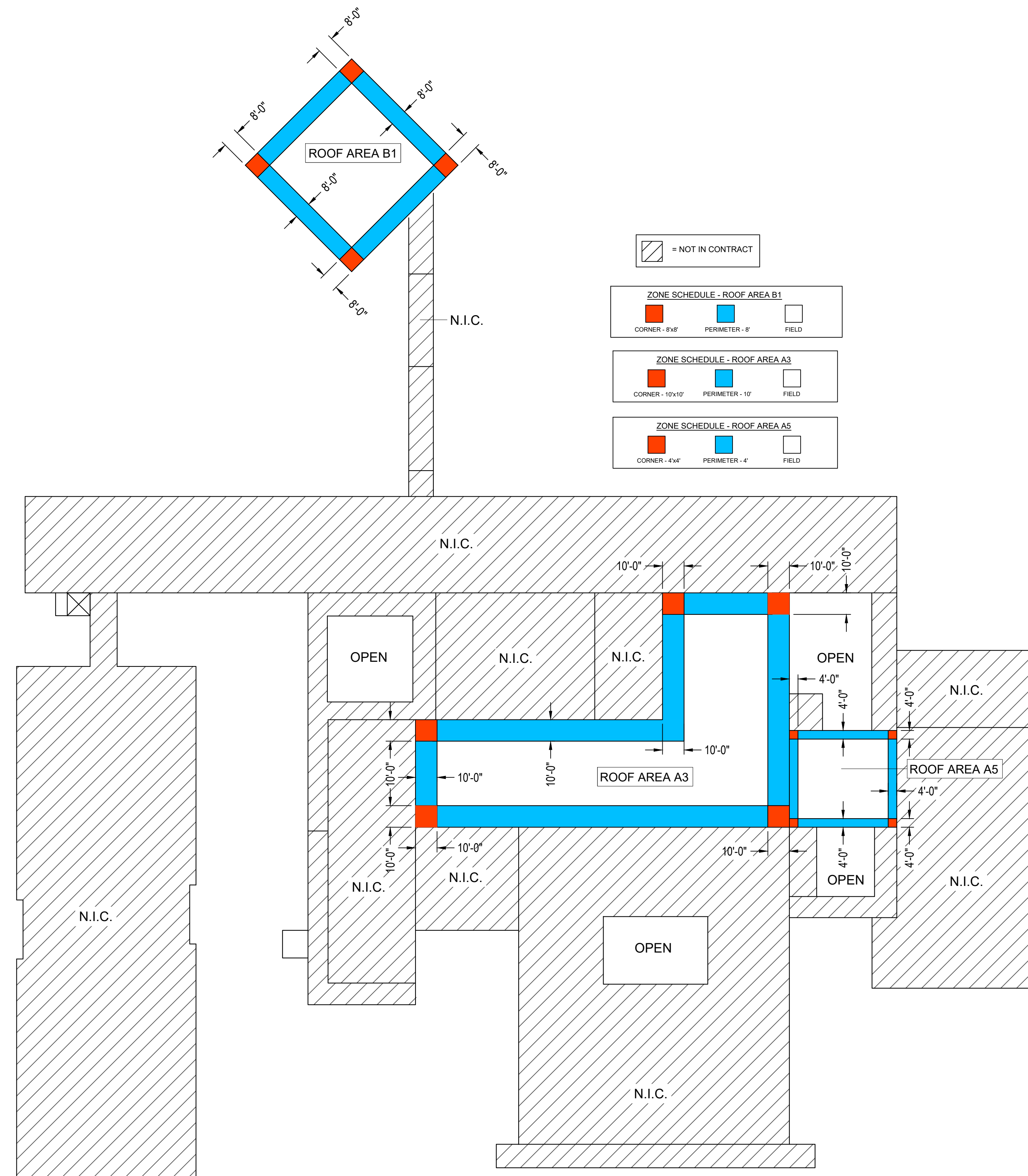
BASIC WIND SPEED = 120 MPH
 BUILDING CATEGORY = III
 EXPOSURE CATEGORY = B
 INTERNAL PRESSURE COEF. = +/- .18

THE NEW ROOF SYSTEM SHALL BE DESIGNED
 AND CONSTRUCTED TO MEET THE FOLLOWING
 WIND UPLIFT PRESSURES:

ZONE SCHEDULE - ROOF AREA A3
 1. FIELD ZONE = -26 PSF
 2. PERIMETER ZONE: 10' = -45 PSF
 3. CORNER ZONE: 10'x10' = -65 PSF

ZONE SCHEDULE - ROOF AREA A5
 1. FIELD ZONE = -26 PSF
 2. PERIMETER ZONE: 4' = -45 PSF
 3. CORNER ZONE: 4'x4' = -65 PSF

ZONE SCHEDULE - ROOF AREA B1
 1. FIELD ZONE = -26 PSF
 2. PERIMETER ZONE: 8' = -45 PSF
 3. CORNER ZONE: 8'x8' = -65 PSF



CHARLOTTE MECKLENBURG SCHOOLS
ALEXANDER GRAHAM MIDDLE SCHOOL
 ROOFING REPLACEMENT PROJECT
 ROOF AREA A3, A5, & B1
 1800 RUNNYMEDE LANE CHARLOTTE, NC 28211
 WIND ZONE PLAN - AREAS A3, A5 AND B1

REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

TERRACON PROJECT NUMBER:
FH226305

DESIGNED BY: CLG

DRAWN BY: SWP

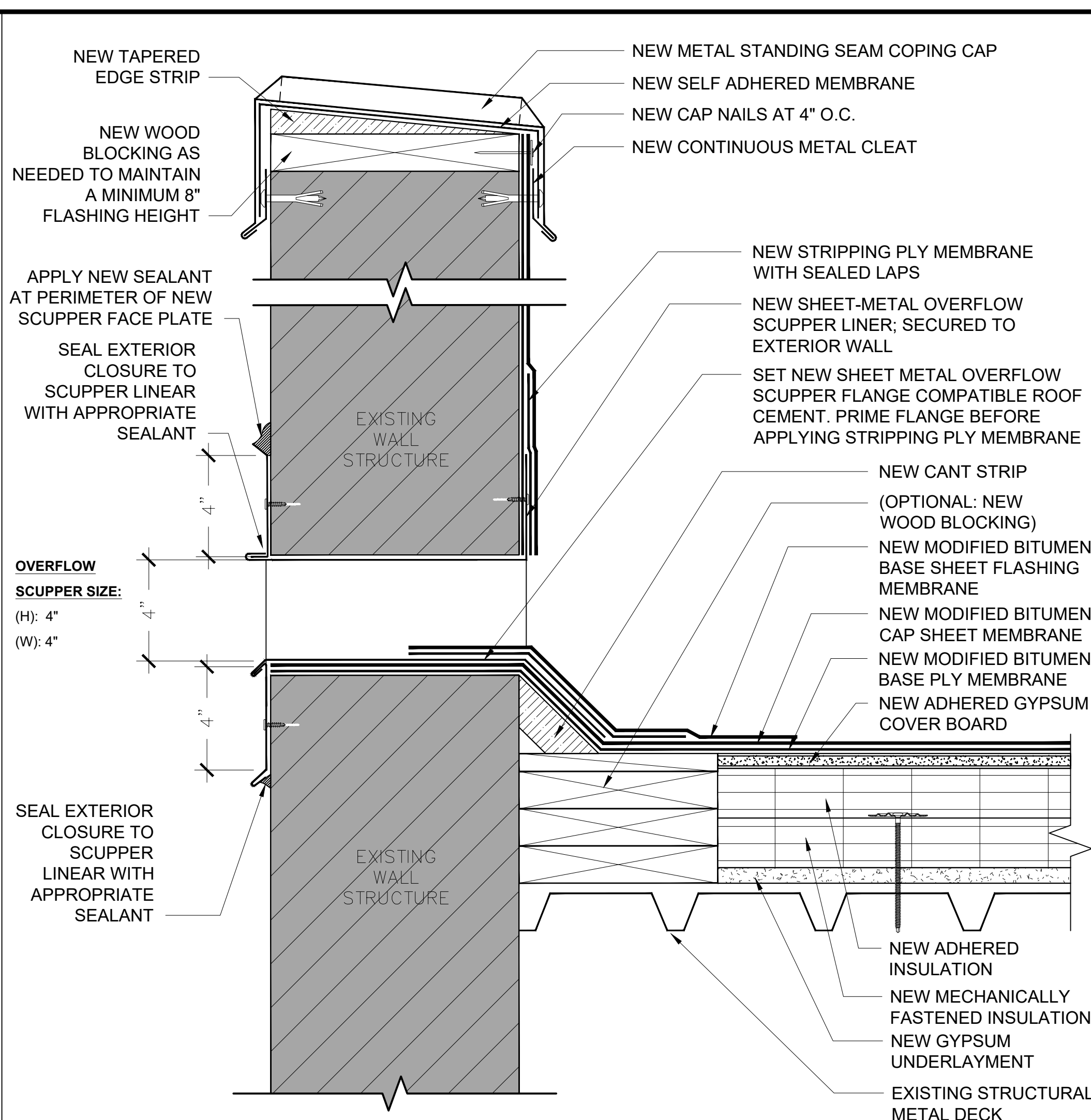
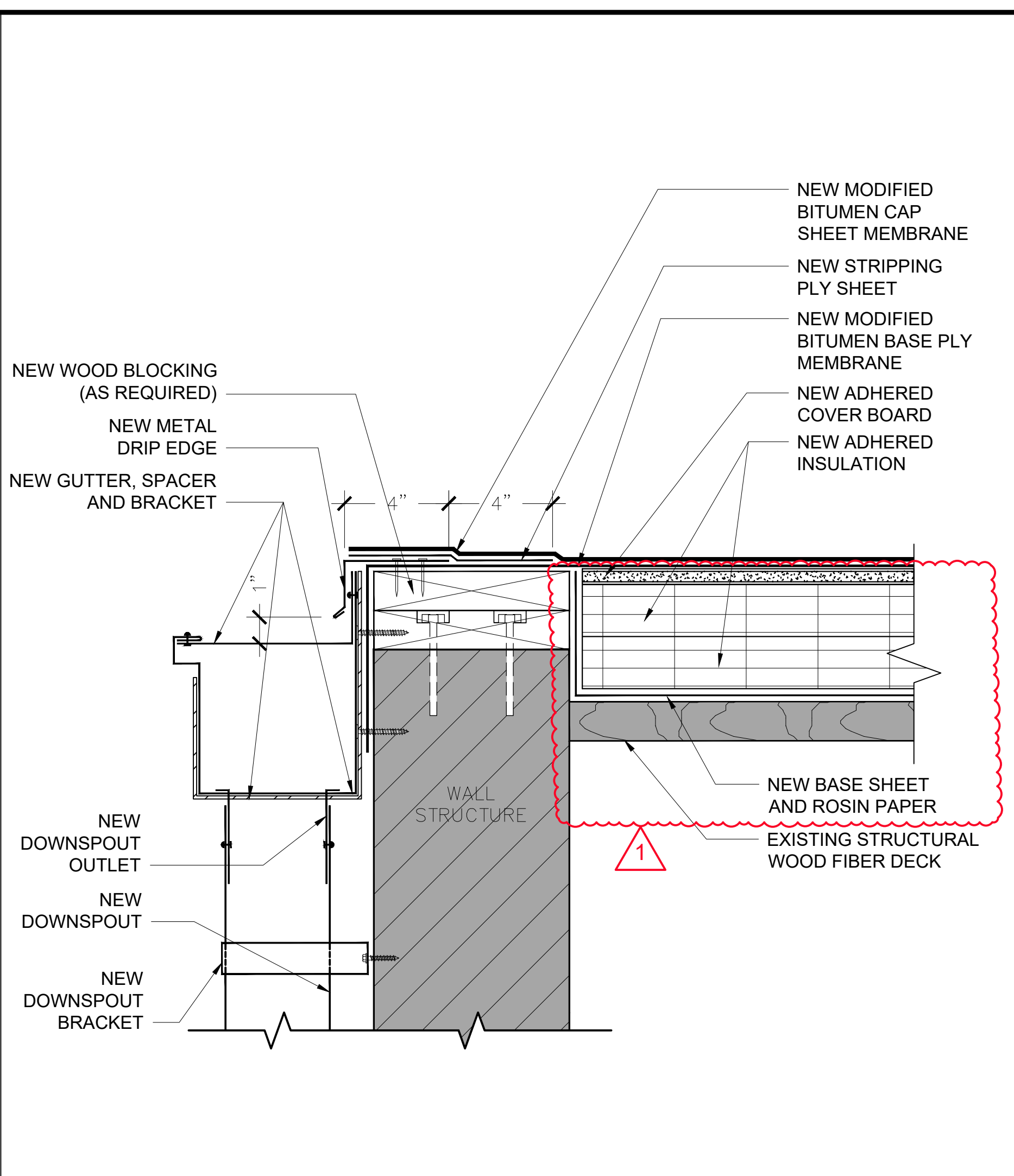
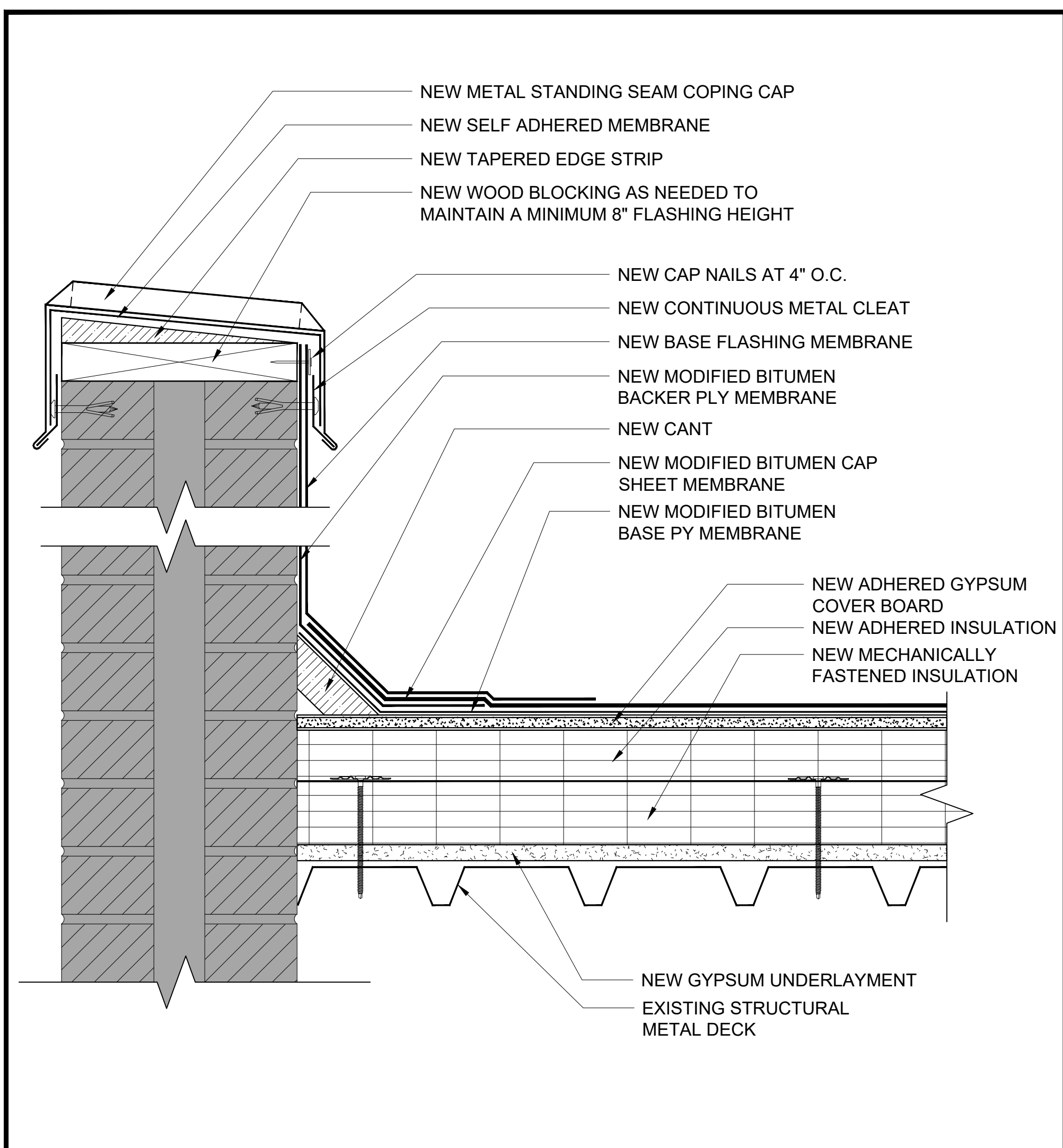
APPROVED BY: JHP

- ISSUE FOR:
- REVIEW / PRICING DOCUMENTS
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 - SURVEY REPORT - REPAIR DOCUMENTS
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NOT FOR CONSTRUCTION
 - CONSTRUCTION DOCUMENTS
 - ADDENDUM SUBMITTAL
 - RECORD DRAWINGS

ISSUE DATE:
 1-11-2024

SHEET NUMBER

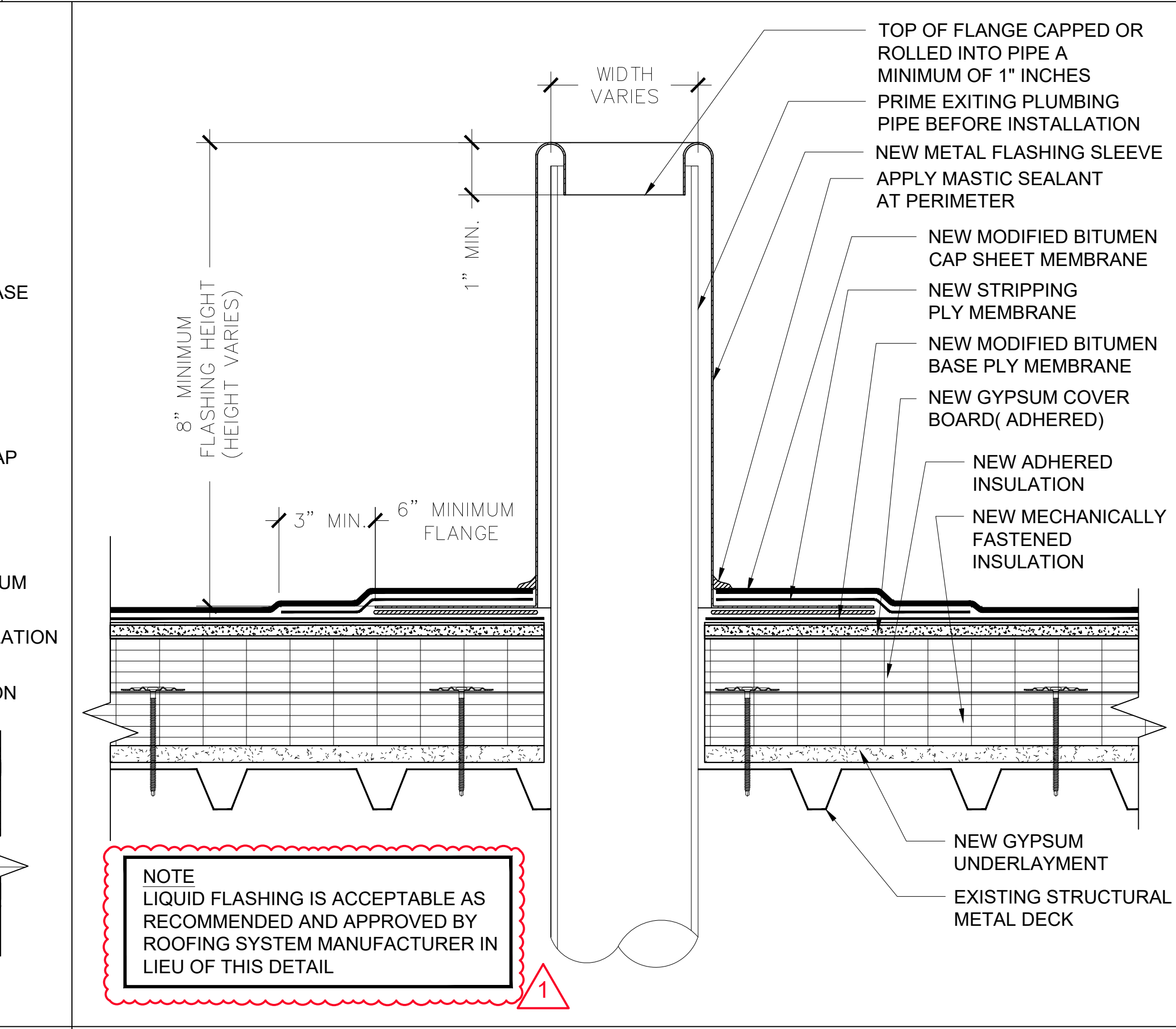
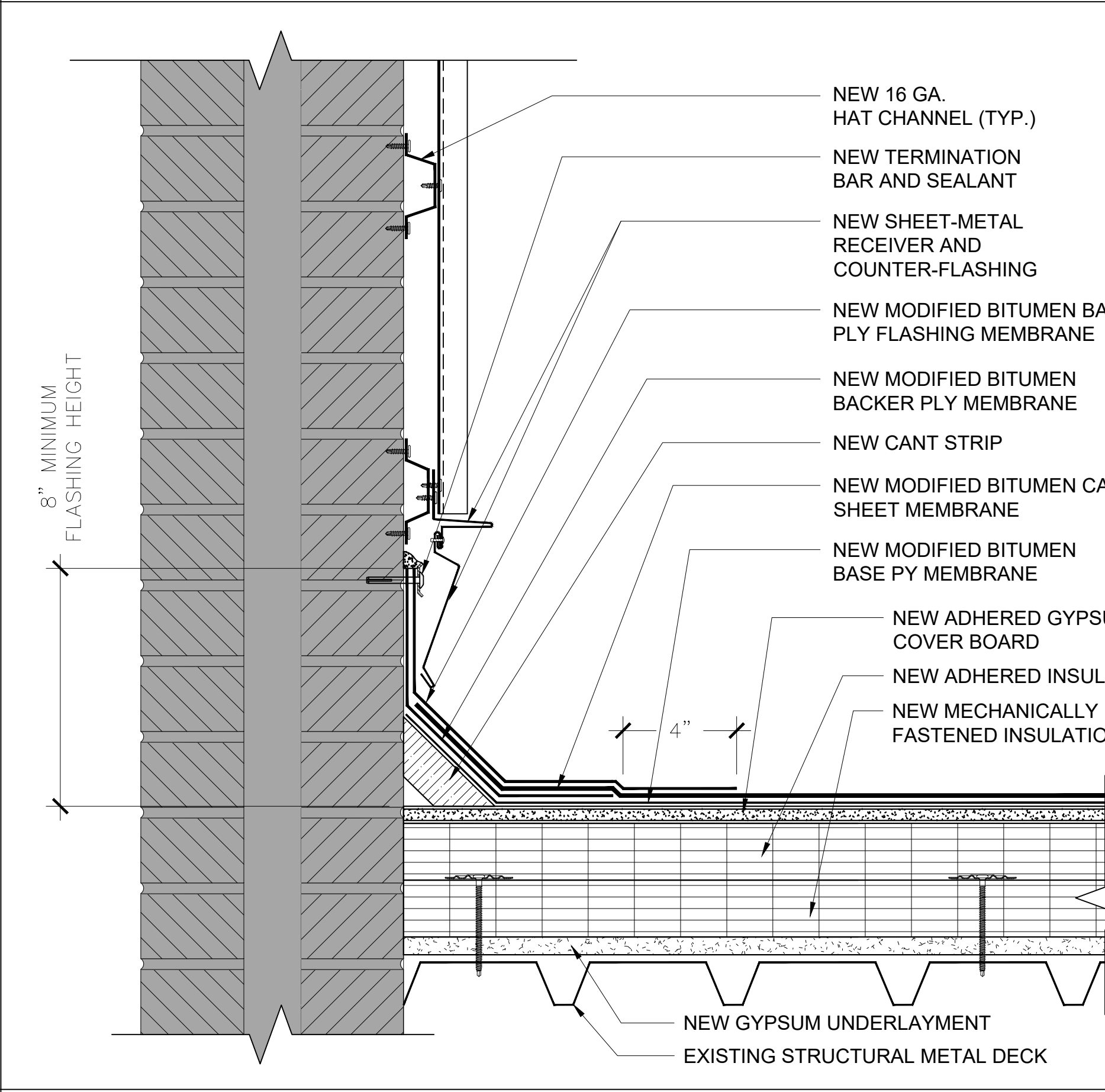
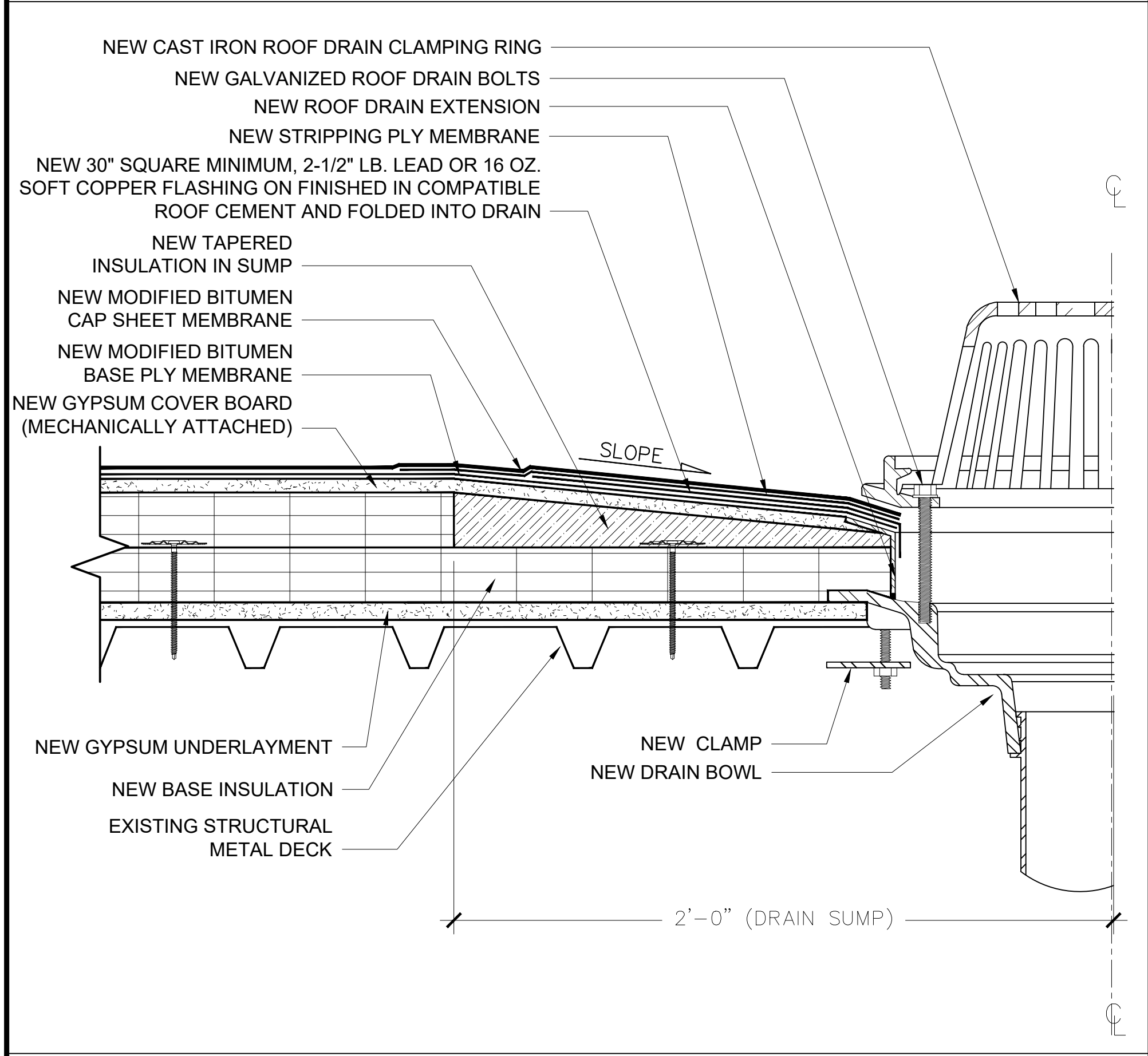
A-201



1 PARAPET WALL
 3"=1'-0"

2 GUTTER w/DOWNSPOUT DETAIL
 3"=1'-0"

3 OVERFLOW THROUGH-WALL SCUPPER
 3"=1'-0"



4 ROOF DRAIN
 3"=1'-0"

5 BASE FLASHING
 3"=1'-0"

6 SANITARY VENT
 3"=1'-0"

tterracon
 2701 Westport Road
 CHARLOTTE, NC 28208
 PH. (704) 509-1777 | TERRACON.COM
 TERRACON NC LICENSE NO. F-0869
 ENGINEER STATE LICENSE SEAL

CHARLOTTE MECKLENBURG SCHOOLS
ALEXANDER GRAHAM MIDDLE SCHOOL
 ROOFING REPLACEMENT PROJECT
 ROOF AREA A3, A5, & B1
 1800 RUNNYMEDE LANE CHARLOTTE, NC 28211
 DETAILS

REVISIONS:

NO.	DATE	DESCRIPTION
1	01-25-2024	ADDENDUM 1
2		
3		
4		

TERRACON PROJECT NUMBER:
FH226305
 DESIGNED BY: CLG
 DRAWN BY: SWP
 APPROVED BY: JHP

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 - RECORD DRAWINGS

ISSUE DATE:
 1-11-2024

SHEET NUMBER
A-301

REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

TERRACON PROJECT NUMBER:
FH226305

DESIGNED BY: CLG

DRAWN BY: SWP

APPROVED BY: JHP

ISSUE FOR:

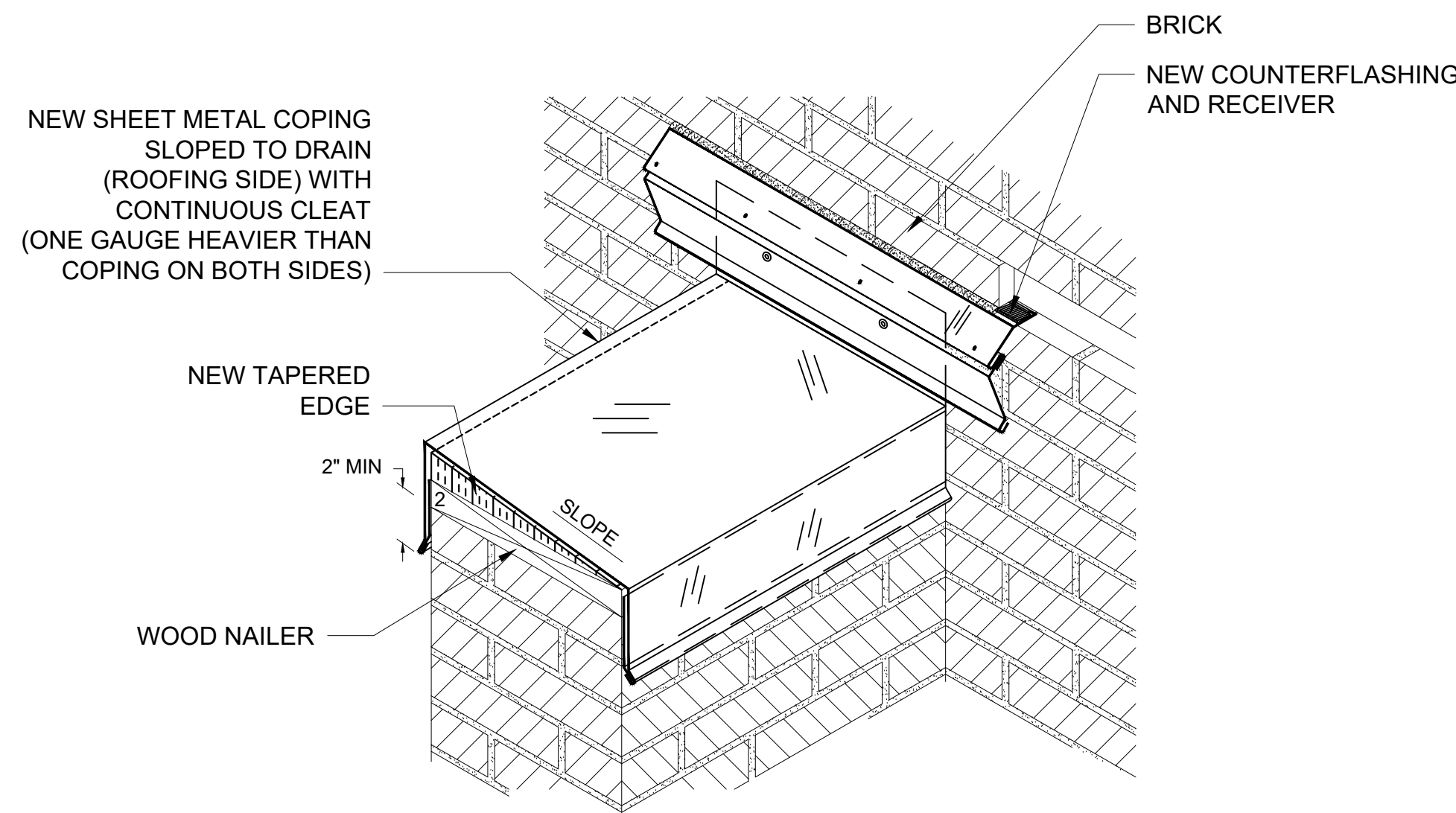
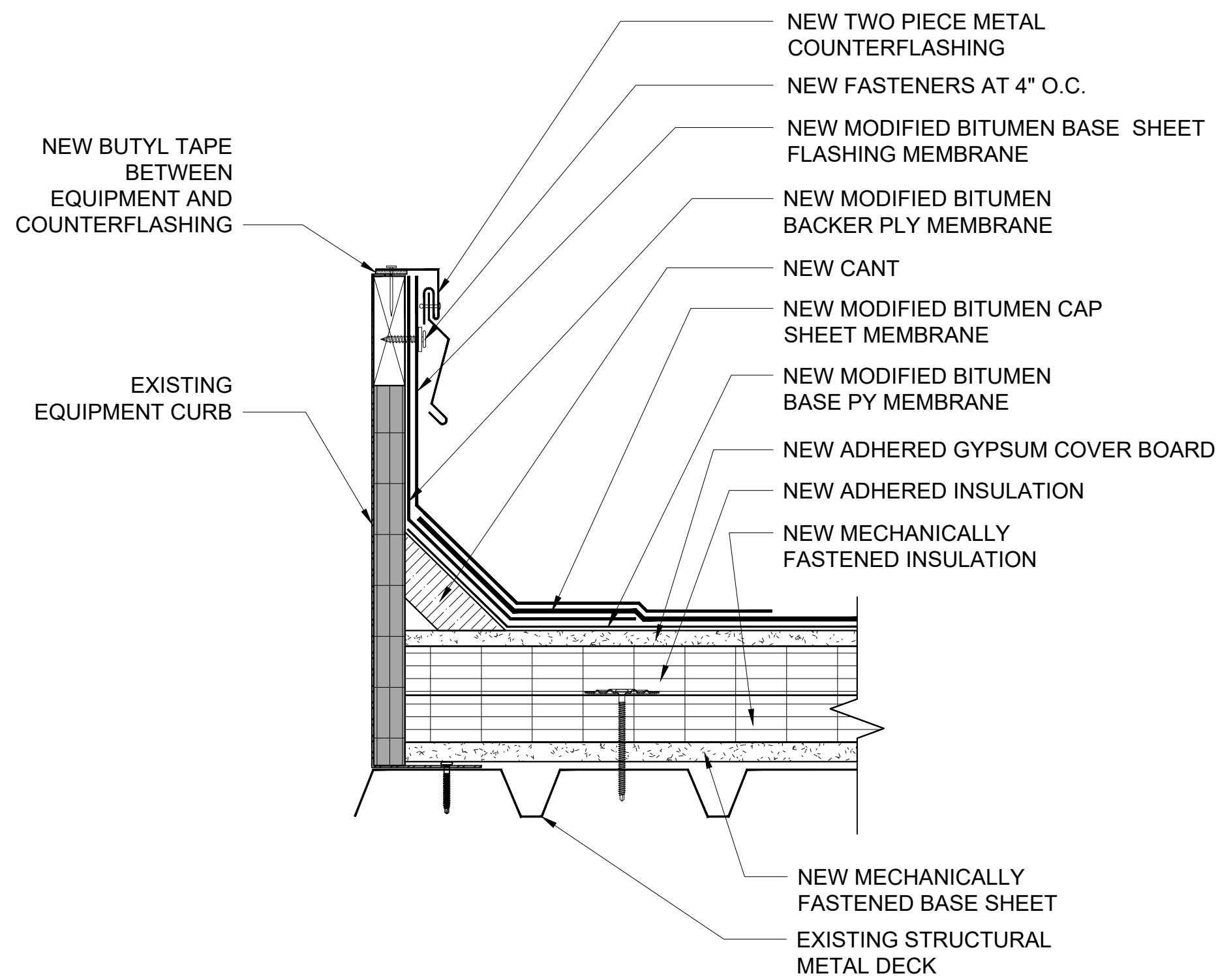
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ISSUE DATE:

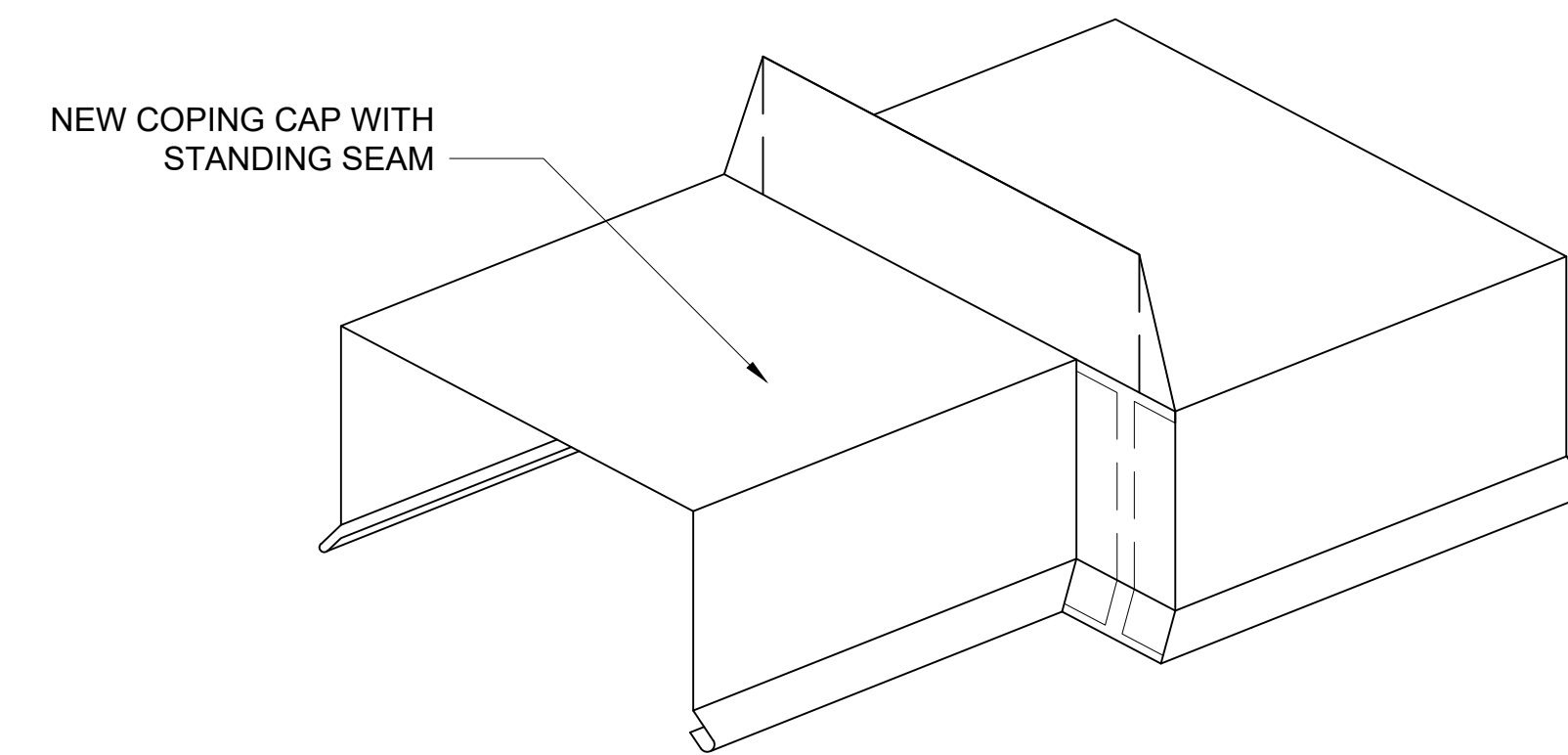
1-11-2024

SHEET NUMBER

A-302



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

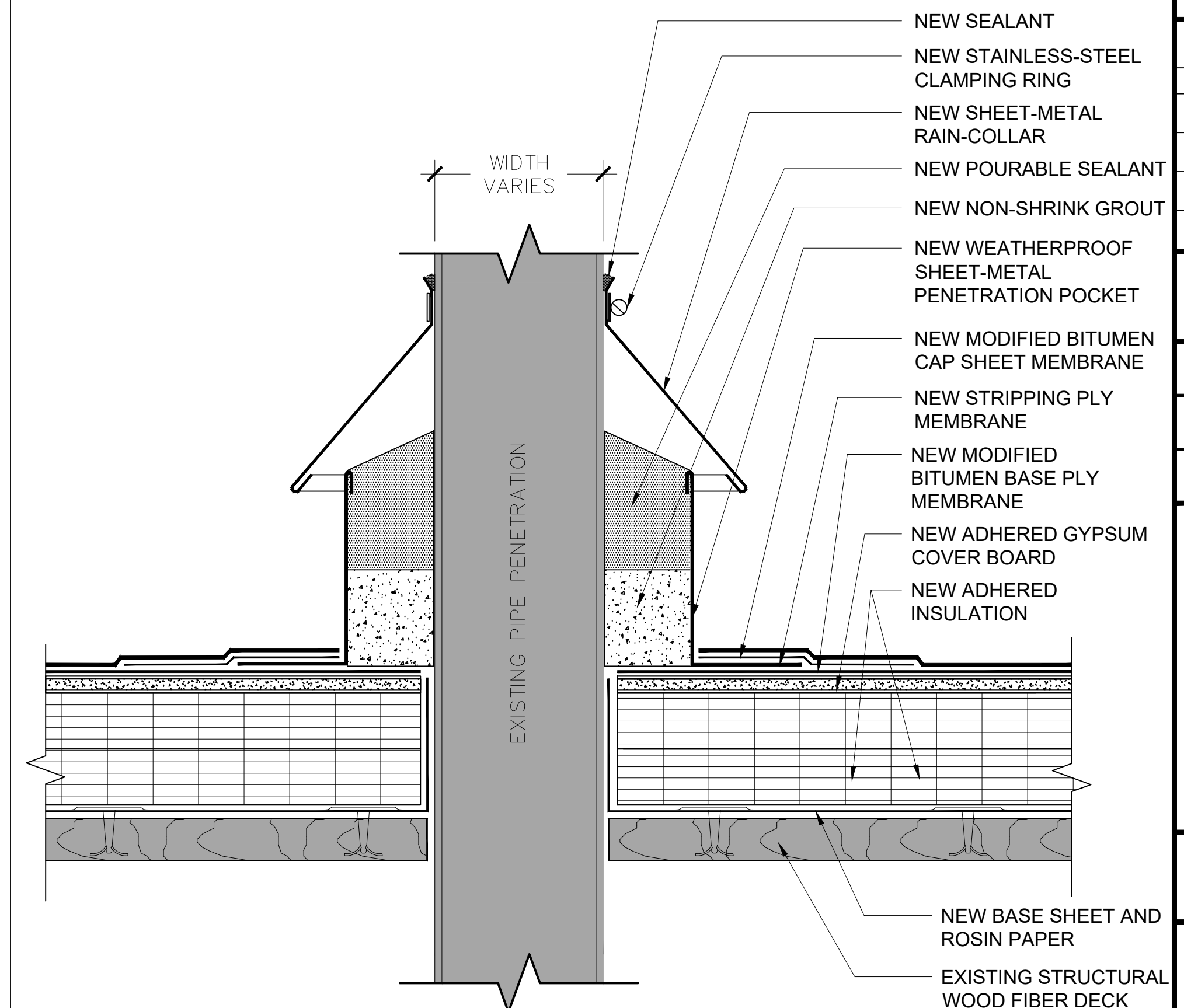
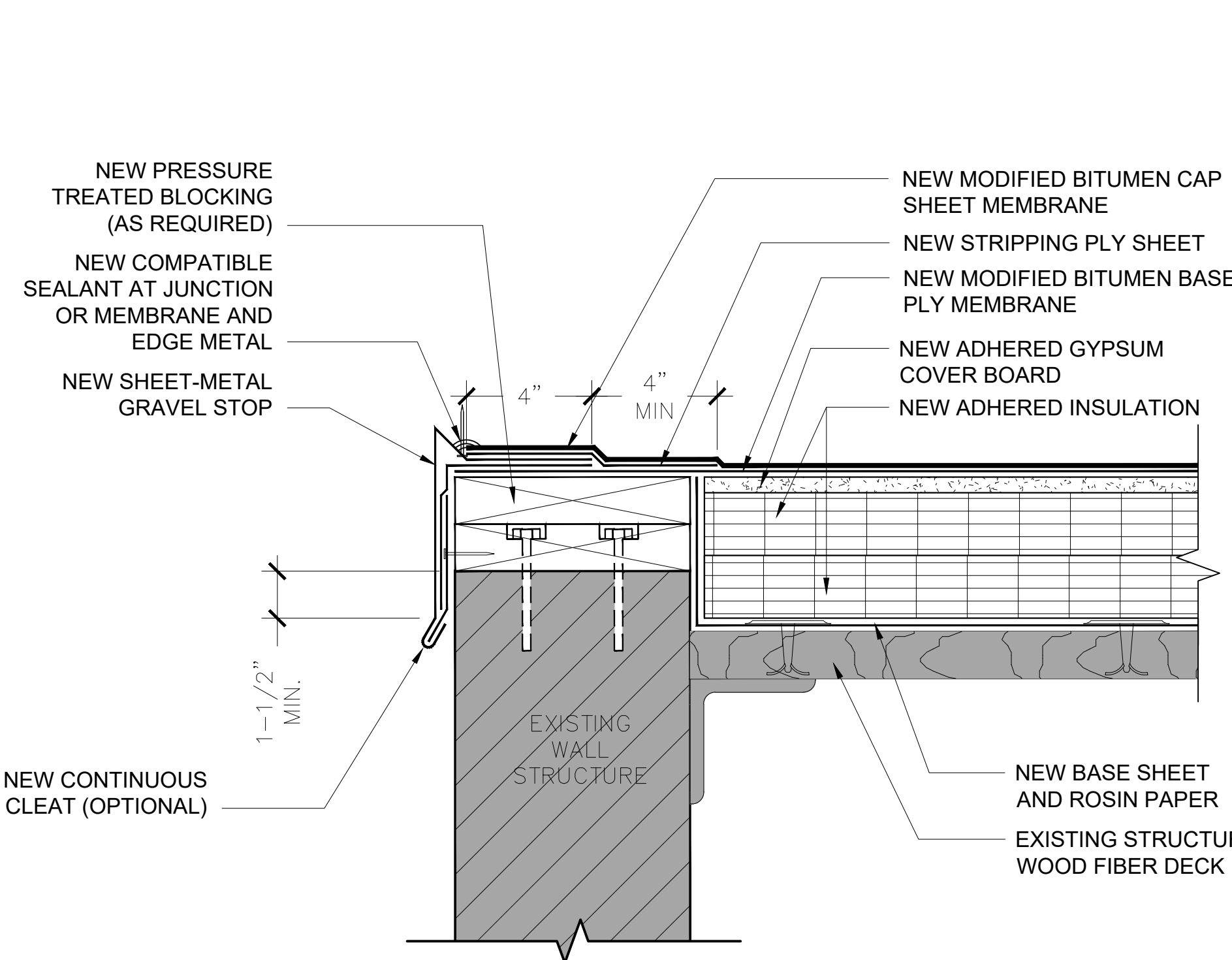
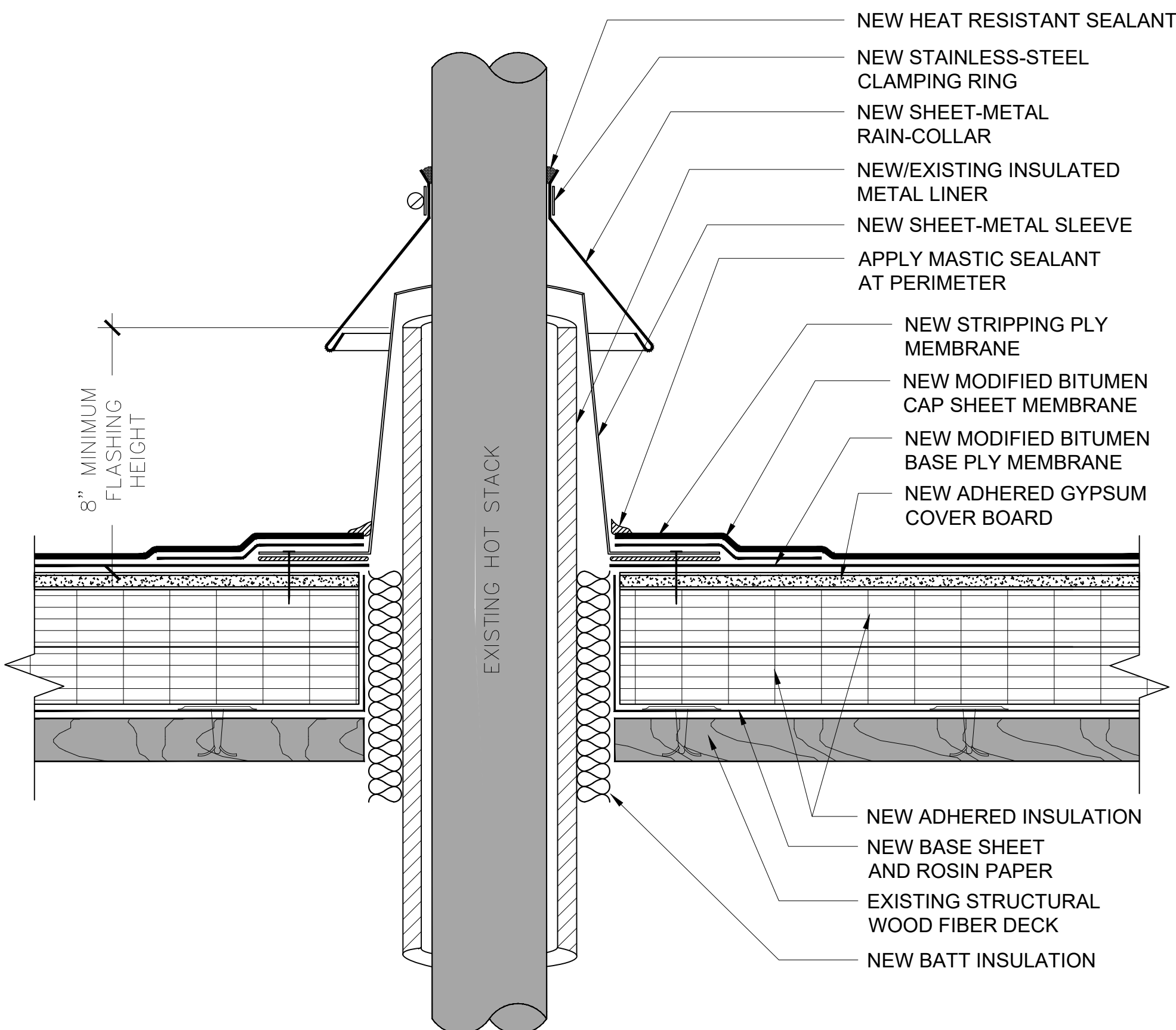


NOTE:
SELF-ADHERING MEMBRANE, BASE FLASHINGS, ETC. NOT SHOWN FOR CLARITY

1 EQUIPMENT CURB
3"=1'-0"

2 COPING TERMINATION DETAIL
3"=1'-0"

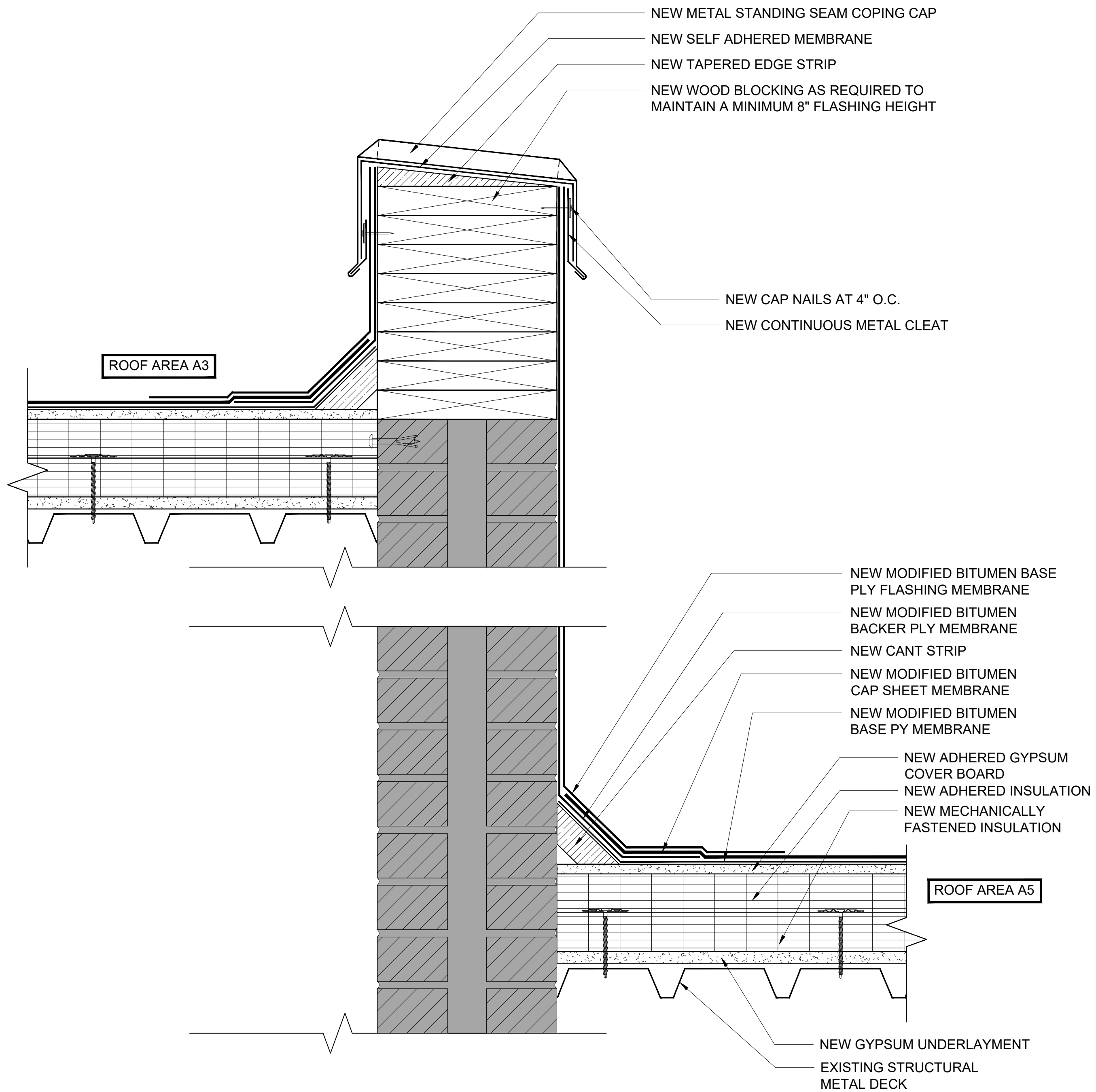
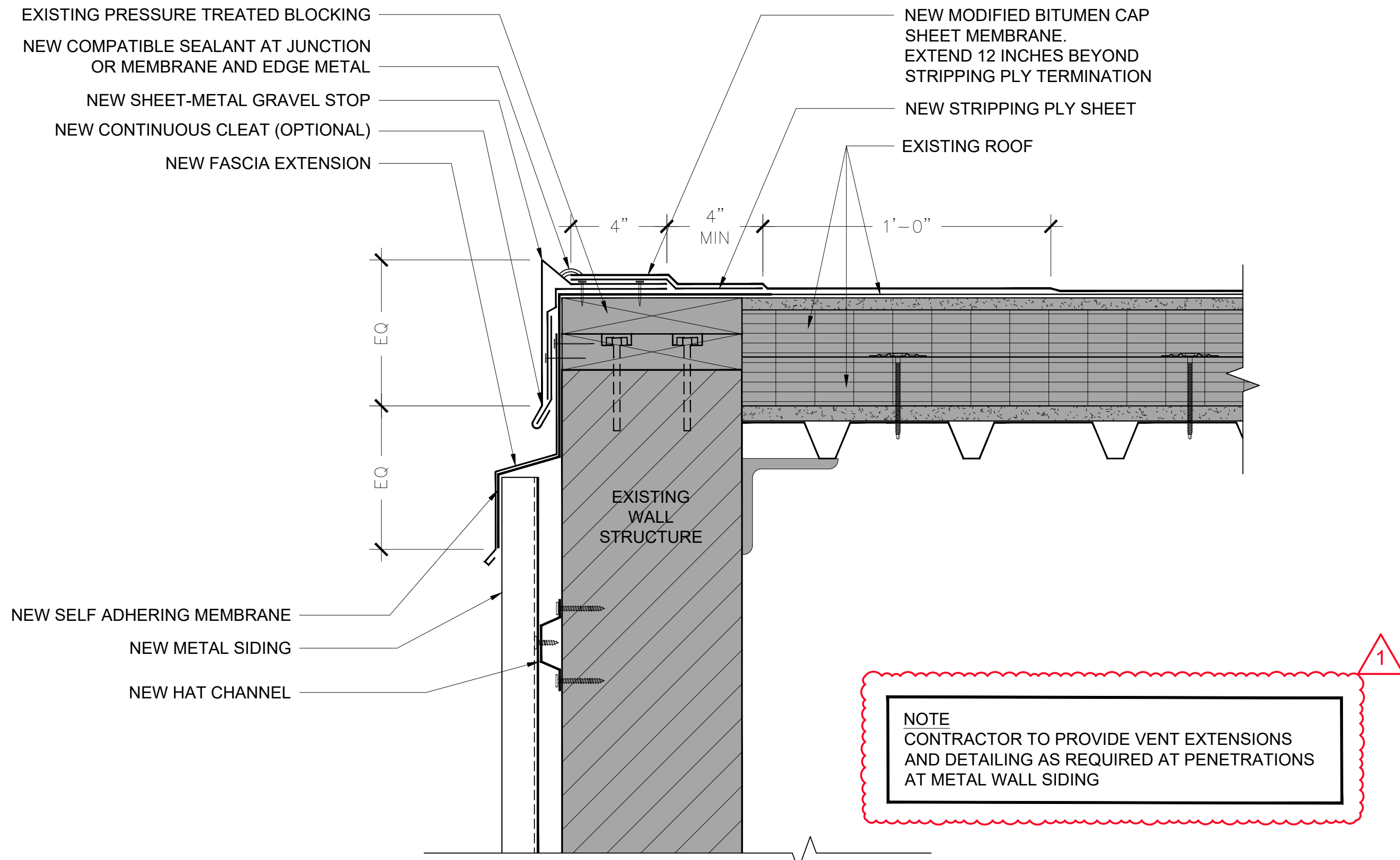
3 COPING TRANSITION DETAIL
3"=1'-0"



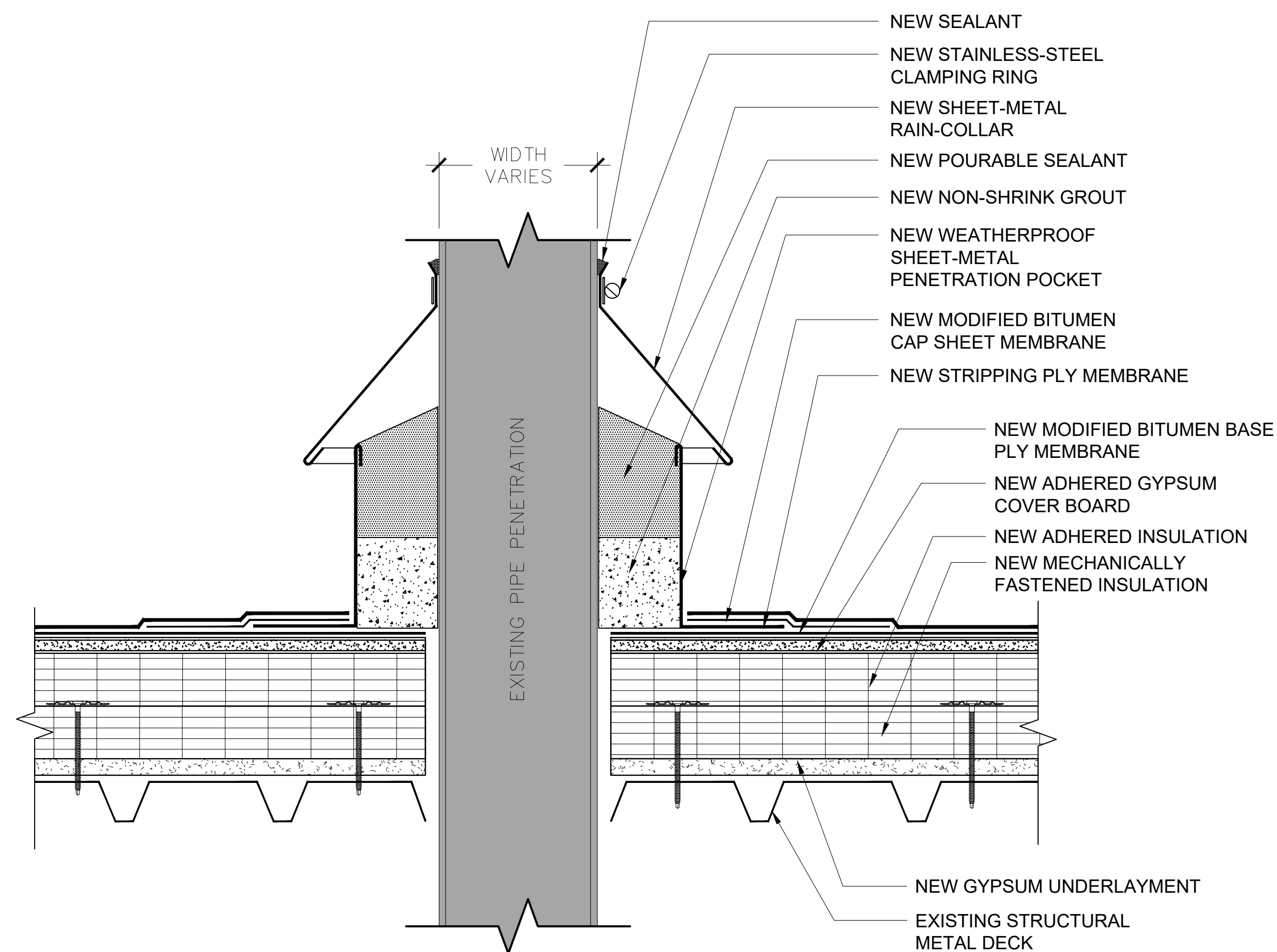
4 PIPE PENETRATION - ROOF AREA B1
3"=1'-0"

5 ROOF EDGE - ROOF AREA B1
3"=1'-0"

6 POURABLE SEALER PENETRATION - ROOF AREA B1
3"=1'-0"



1 EAVE FLASHING DETAIL
 3"=1'-0"



2 POURABLE SEALER PENETRATION
 3"=1'-0"

3 PARAPET WALL
 3"=1'-0"

REVISIONS:

NO.	DATE	DESCRIPTION
1	01-25-2024	ADDENDUM 1
2		
3		
4		

TERRACON PROJECT NUMBER:
FH226305

DESIGNED BY: CLG

DRAWN BY: SWP

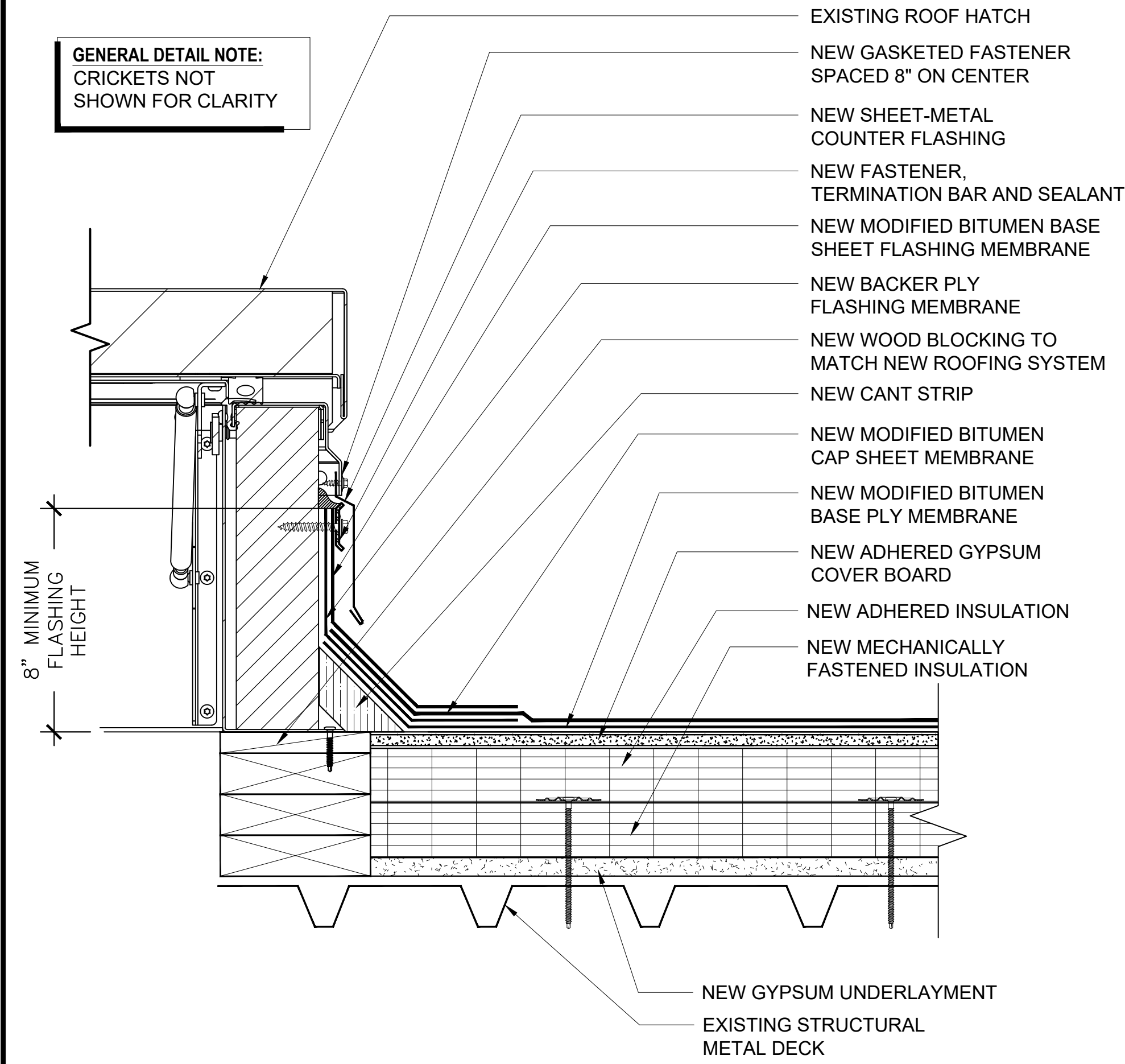
APPROVED BY: JHP

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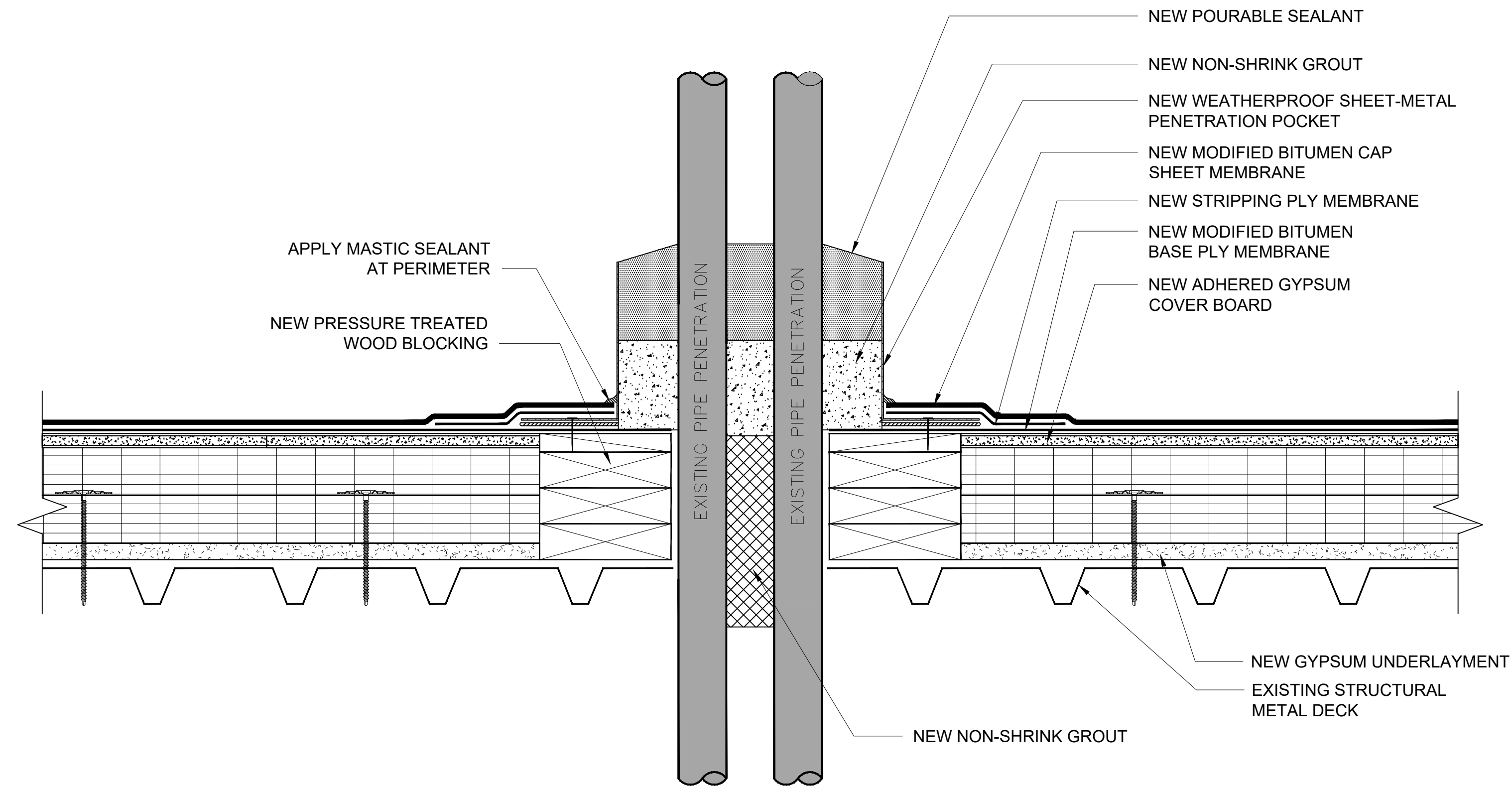
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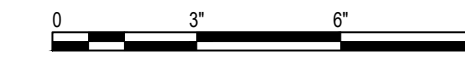
GENERAL DETAIL NOTE:
 CRICKETS NOT
 SHOWN FOR CLARITY



1 ROOF HATCH
 3"=1'-0"



2 POURABLE SEALER PENETRATION (MORE THAN 1 PENETRATION) DETAIL
 3"=1'-0"



REVISIONS:

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ISSUE DATE:
 1-11-2024

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A-304