



BUNCOMBE COUNTY SCHOLS

VALLEY SPRINGS MIDDLE SCHOOL

ROOF REPLACEMENT PROJECT

224 LONG SHOALS ROAD
ARDEN, NORTH CAROLINA

VICINITY MAP

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A-503	ROOF DETAILS

LOCATION MAP

Terracon
Consulting Engineers and Scientists

2020 STARITA ROAD SUITE-E
CHARLOTTE, NORTH CAROLINA
p: 704.594.8940 f: 704.509.1888
terracon.com

PROJECT NAME AND ADDRESS:

BUNCOMBE COUNTY SCHOOLS
VALLEY SPRINGS MIDDLE SCHOOL
ROOF REPLACEMENT PROJECT

224 LONG SHOALS ROAD
ARDEN, NORTH CAROLINA

ISSUE DATE:
APRIL 27, 2016

ISSUE FOR:

☐ DESIGN DEVELOPMENT SUBMITTAL:
NOT FOR CONSTRUCTION
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☒ BID DOCUMENTS
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☐ CONSTRUCTION DOCUMENT SUBMITTAL

☐ ADDENDUM SUBMITTAL

☐ RECORD DRAWINGS

PROJECT TEAM:
DESIGNED BY:
JJC/JHP
DRAWN BY:
EGM II
APPROVED BY:
LTH

PROJECT NUMBER:
FH166112

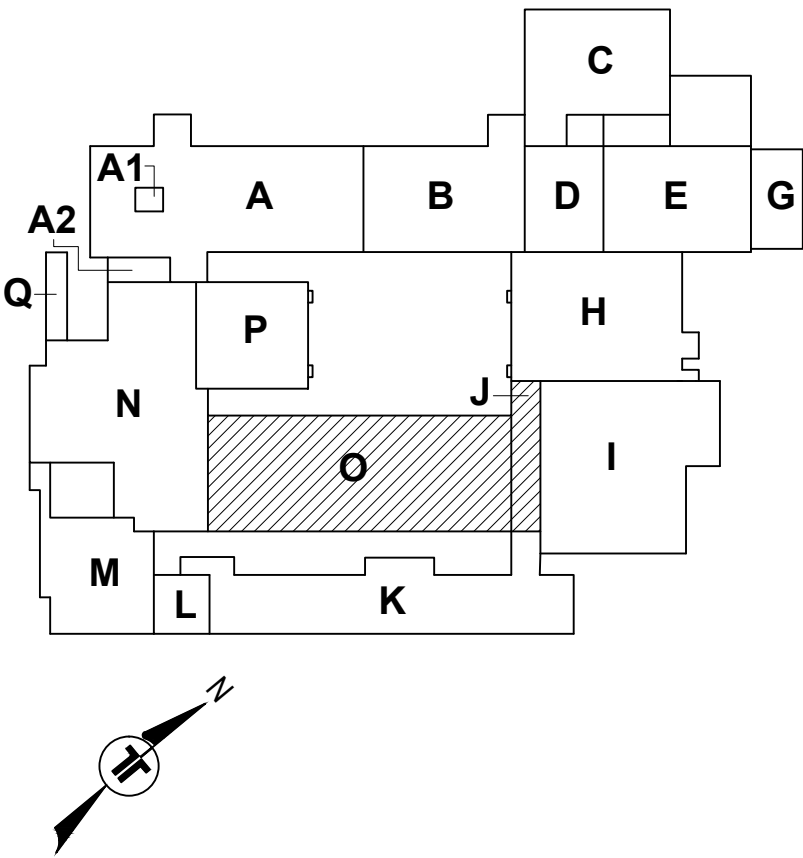
ADDENDUM:
NO. 1: DATE: DESCRIPTION:

ENGINEER STATE LICENSE SEAL

TITLE SHEET:
COVER SHEET

SHEET NUMBER:
G-101

KEYPLAN:



BUILDING CODE:

NORTH CAROLINA BUILDING CODE (2012 EDITION)
AND ASCE 7-05

BASIC WIND SPEED = 100 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:

1. INTERIOR ZONE = -25.01 PSF
2. EDGE ZONE = -41.97 PSF
3. CORNER ZONE = -63.16 PSF

LEGEND

- RD ○ ROOF DRAIN
⊗ MECHANICAL UNIT
● ○ VENT PIPE/PENETRATION
→ DECK SLOPE
--- TAPERED INSULATION
→ TAPERED INSULATION SLOPE
○ DETAIL NO.
--- GENERAL NOTES FLAG
--- EXPANSION JOINT

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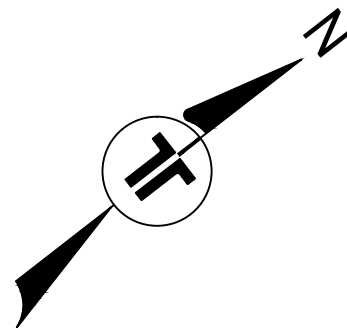
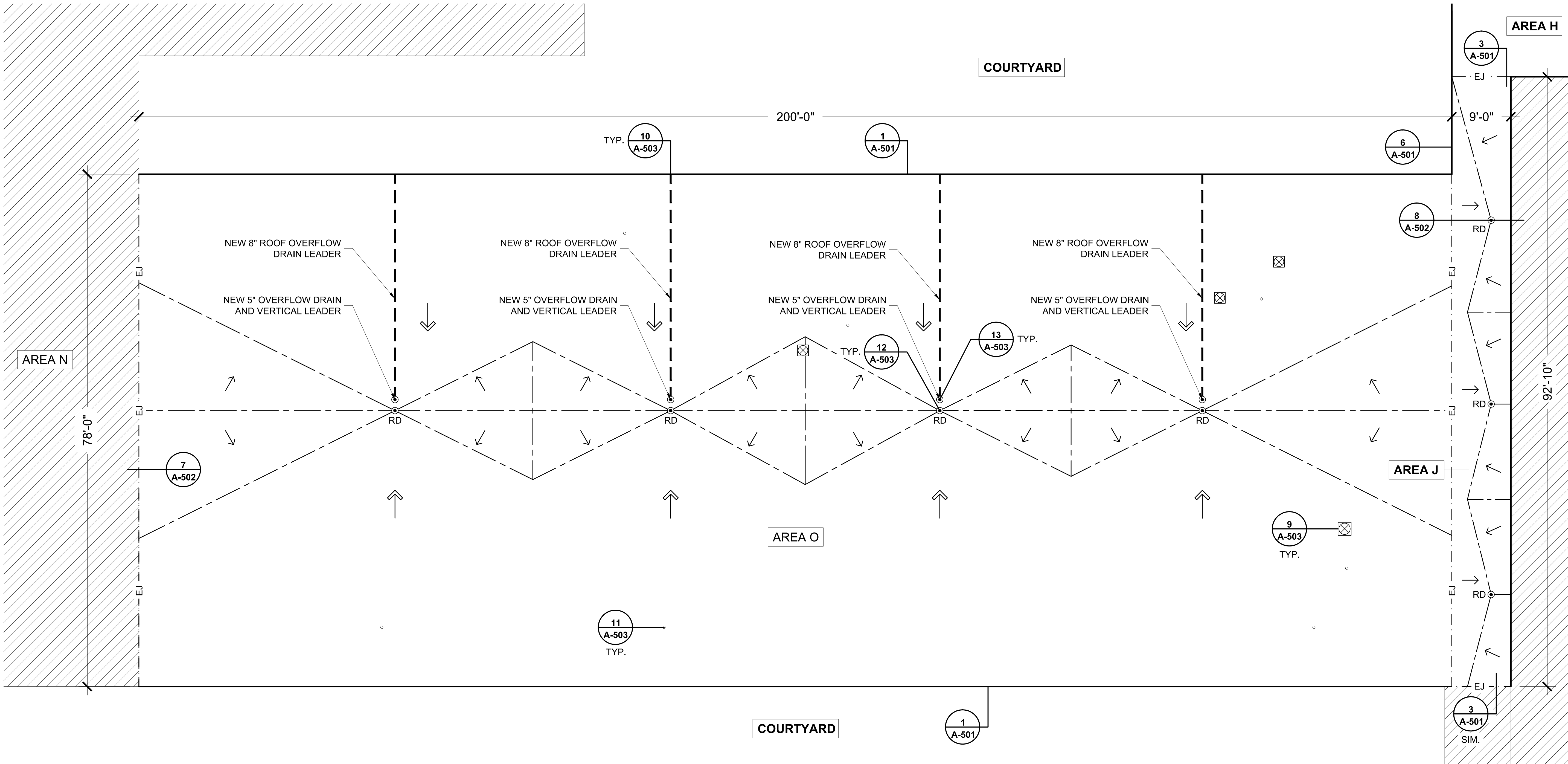
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TITLE SHEET:

ROOF PLAN: AREA O & J

SHEET NUMBER:

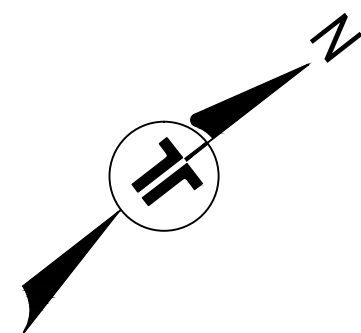
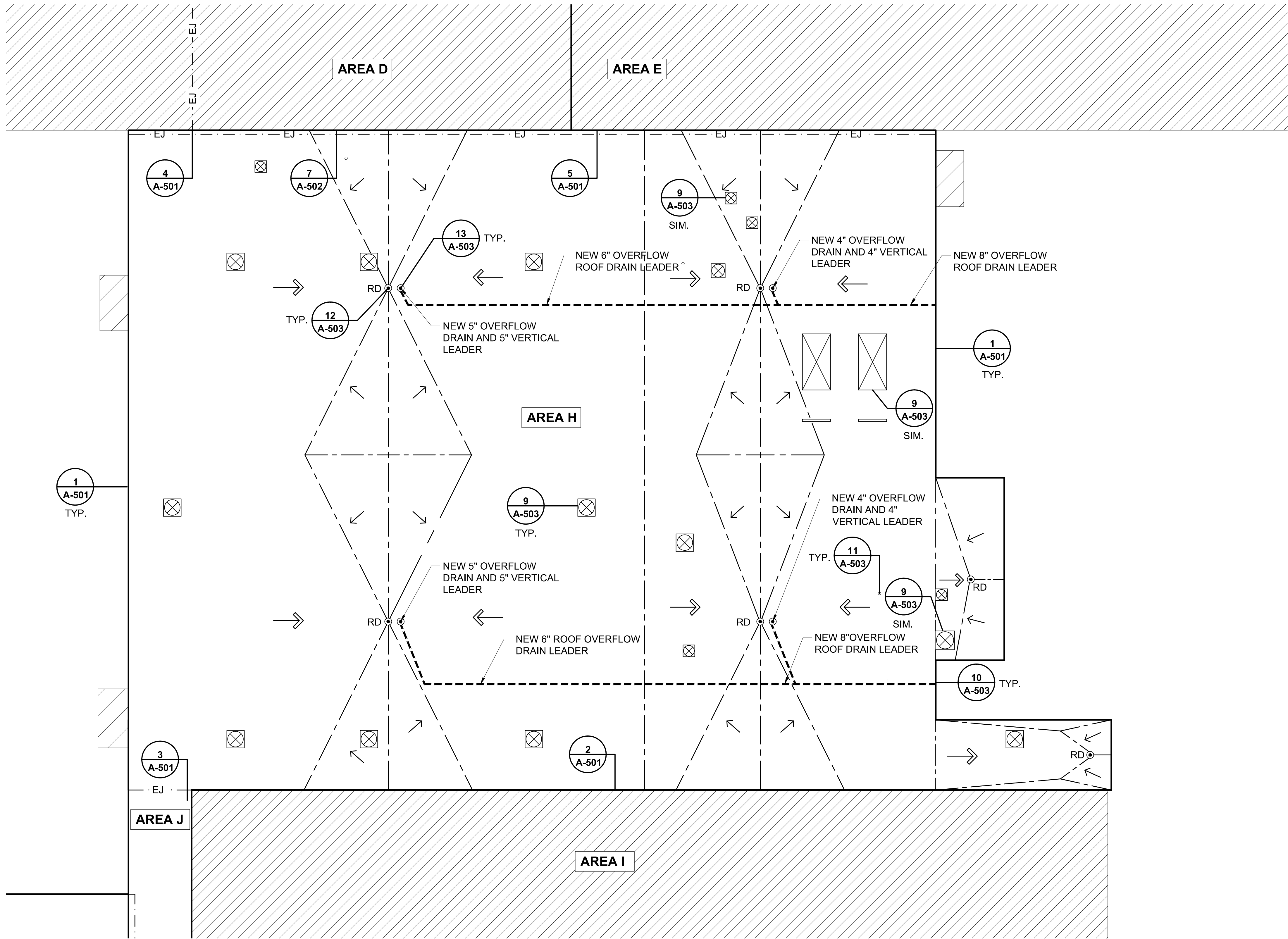
A-101



1

ROOF PLAN: VALLEY SPRINGS AREA O & J

1/8" = 1'-0"
0 4' 8' 16'



1 ROOF PLAN: VALLEY SPRINGS AREA H
1/8" = 1'-0"
0 4' 8' 16'

- LEGEND**
- RD ○ ROOF DRAIN AND NEW SUMP
 - ⊠ MECHANICAL UNIT
 - ○ VENT PIPE/PENETRATION
 - DECK SLOPE
 - - - TAPERED INSULATION
 - - - TAPERED INSULATION SLOPE
 - DETAIL NO.
 - GENERAL NOTES FLAG
 - - - EXPANSION JOINT

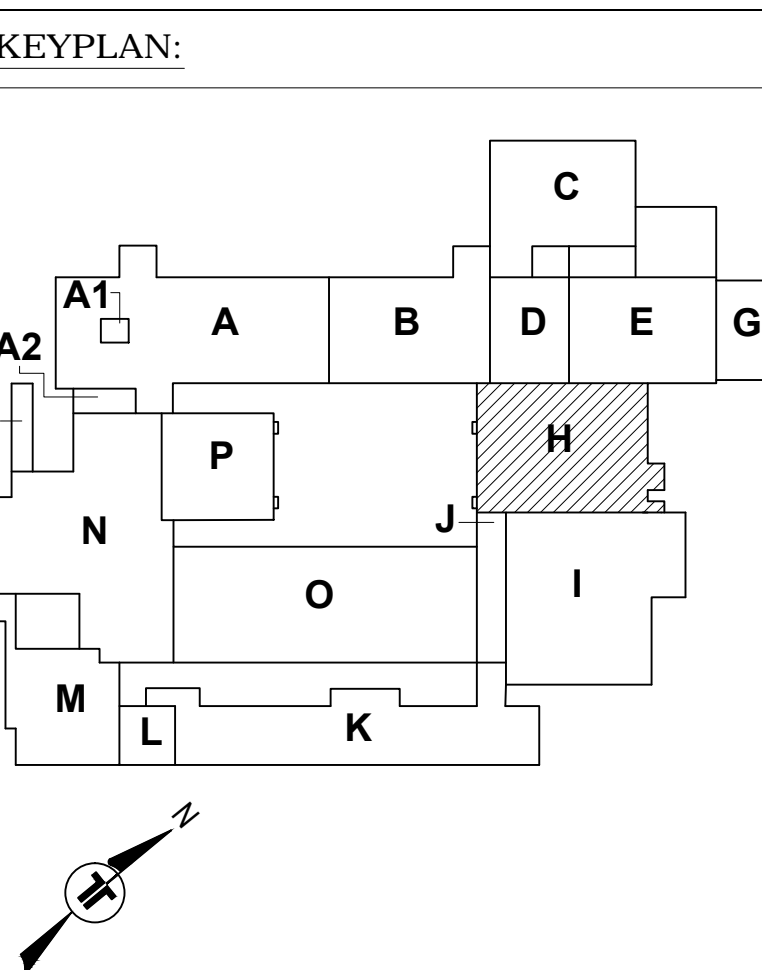
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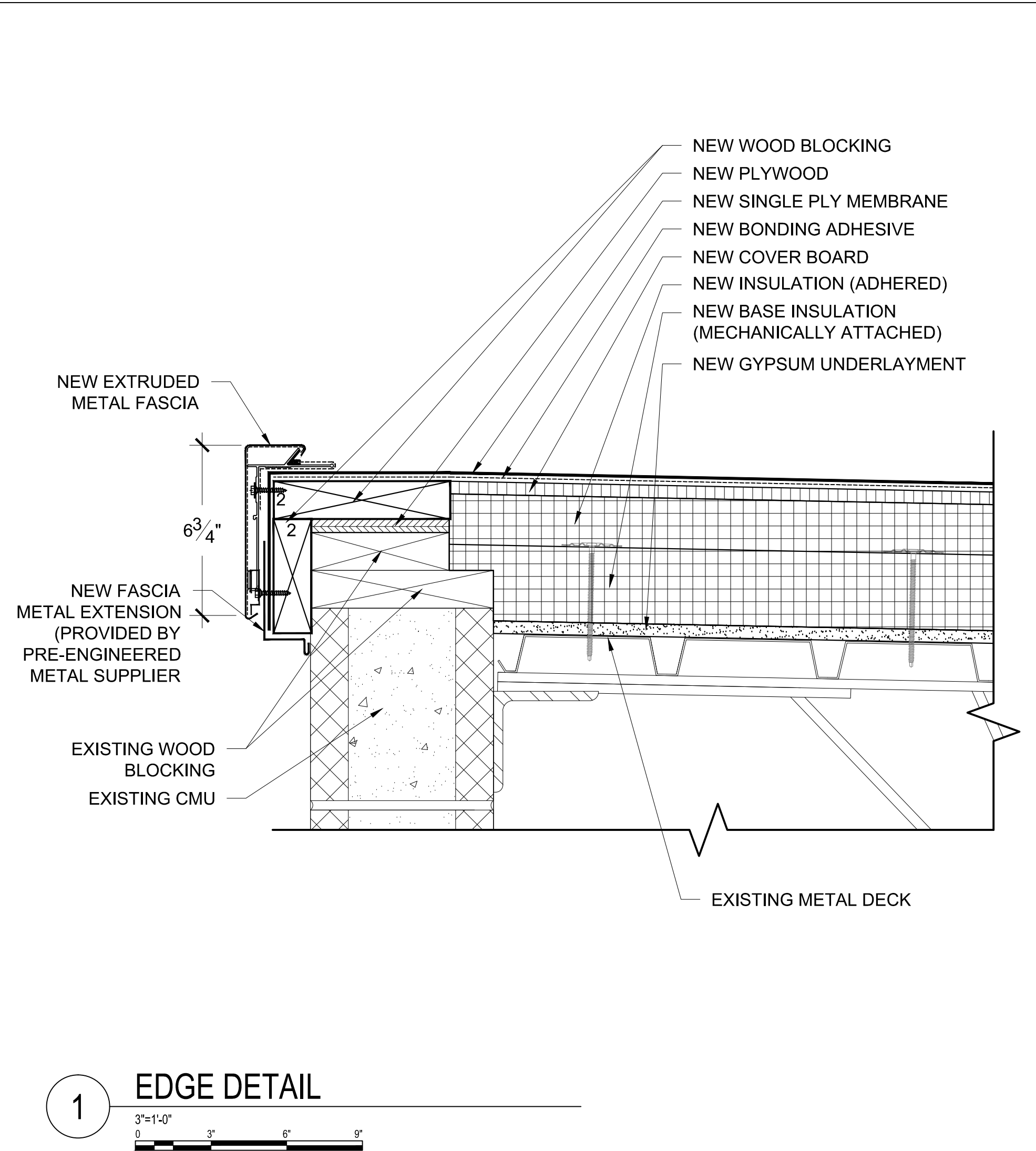
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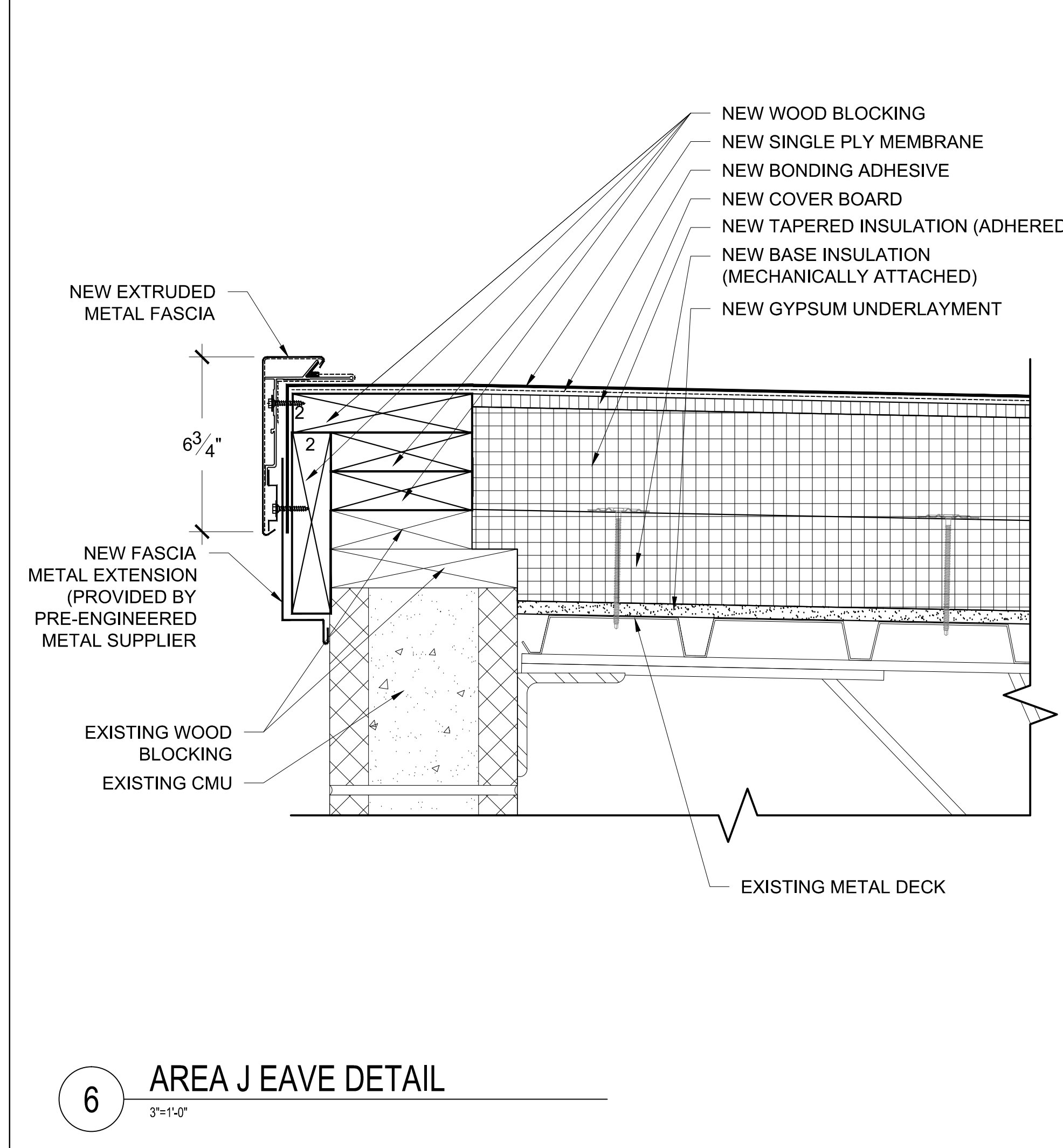
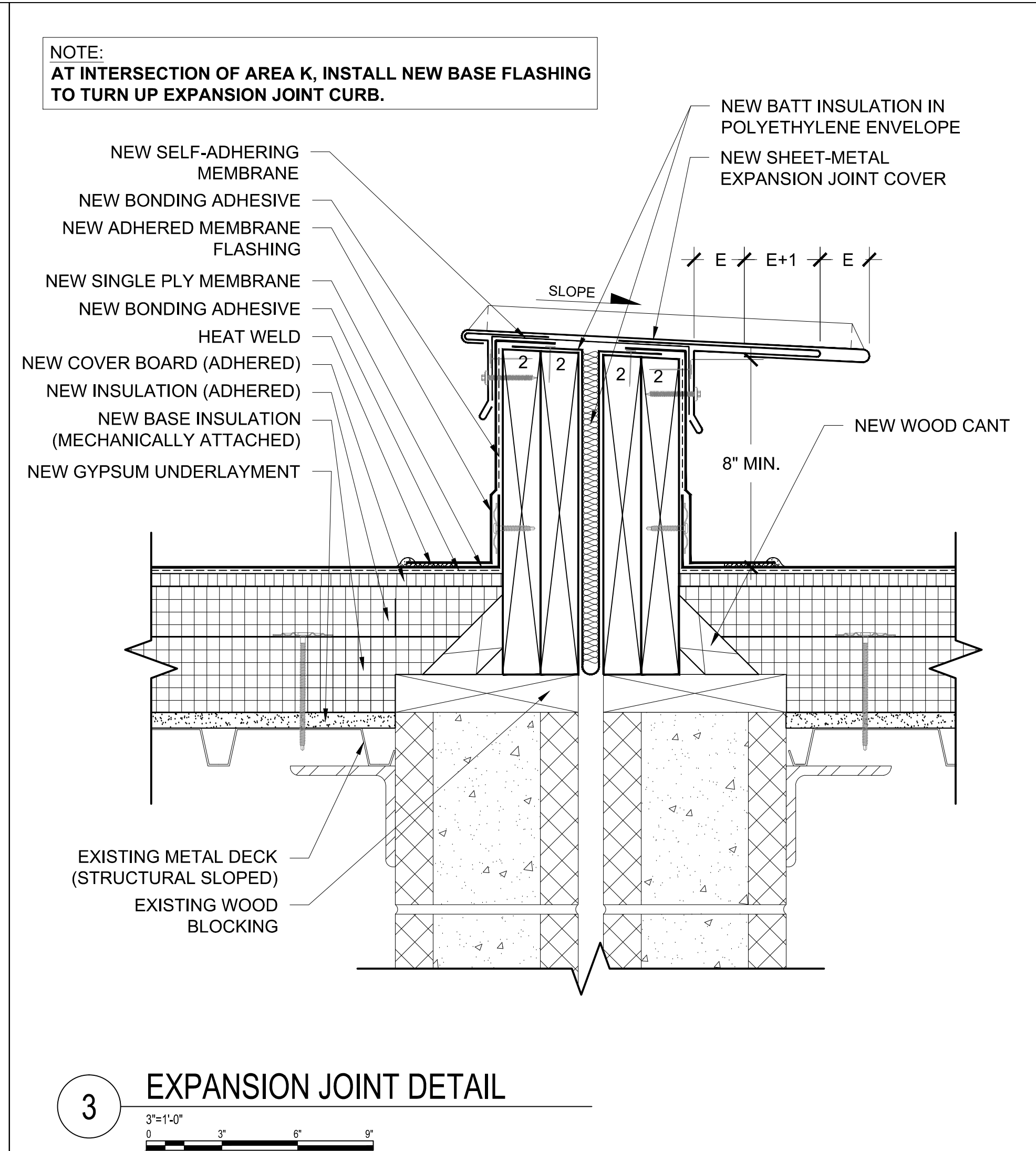
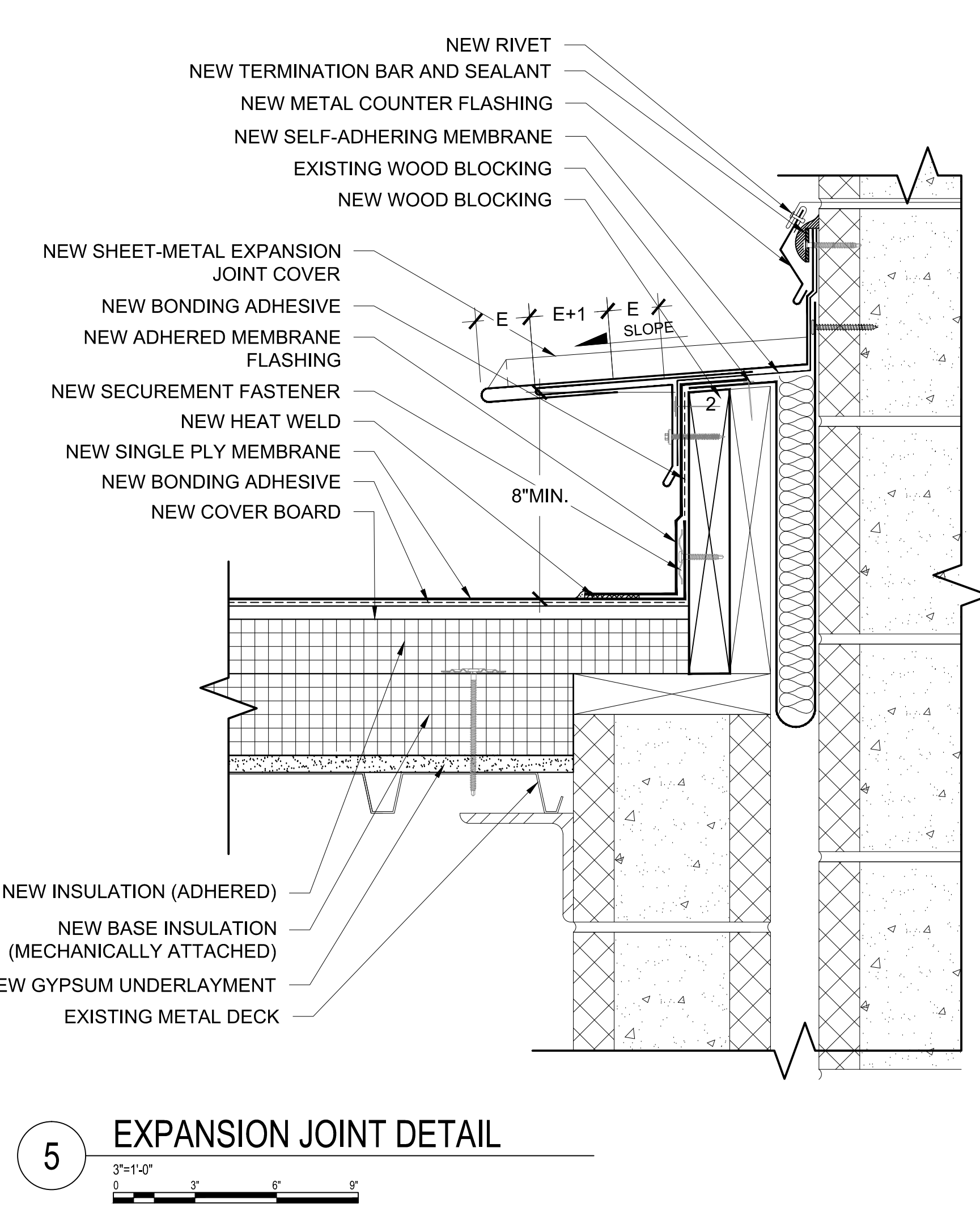
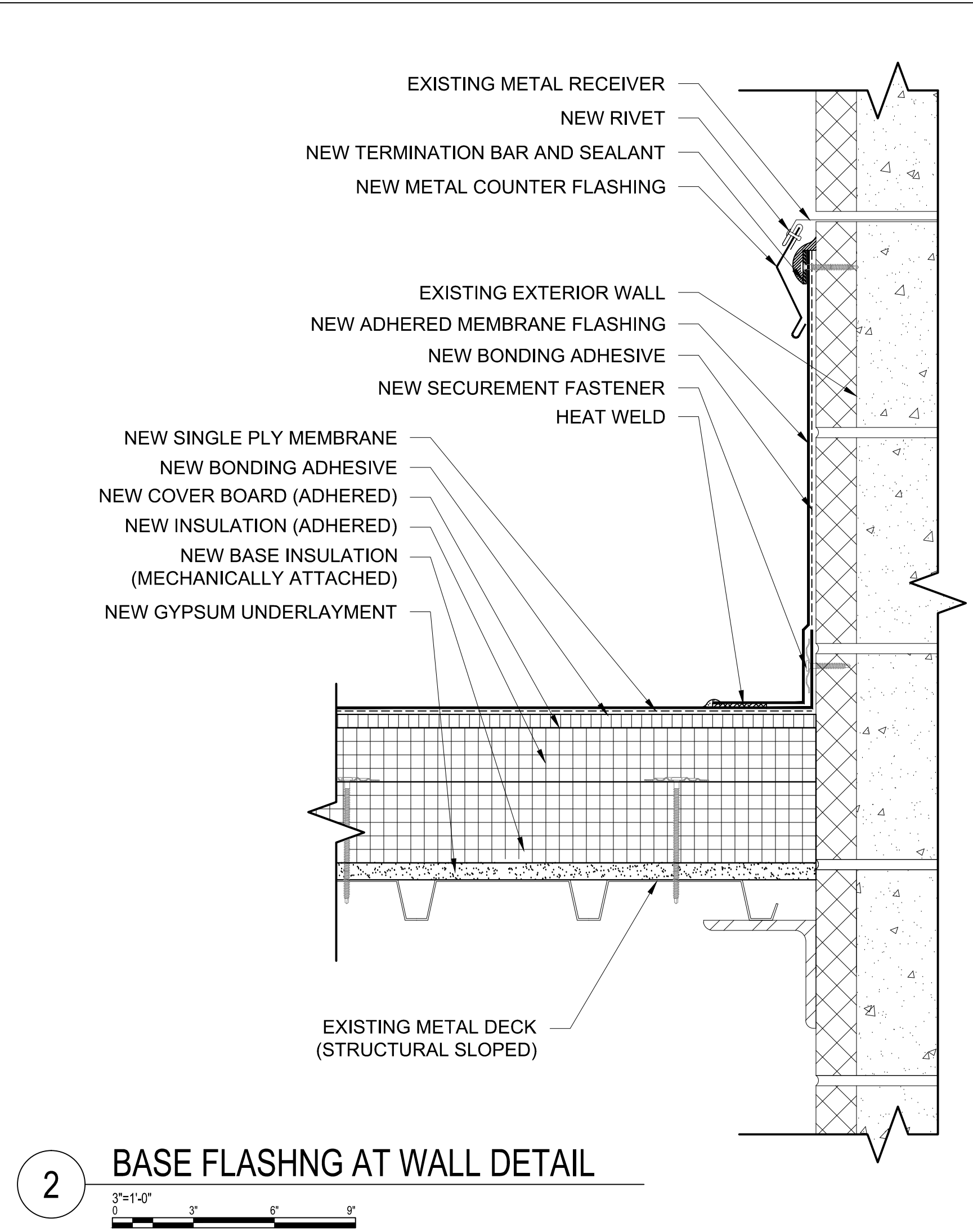
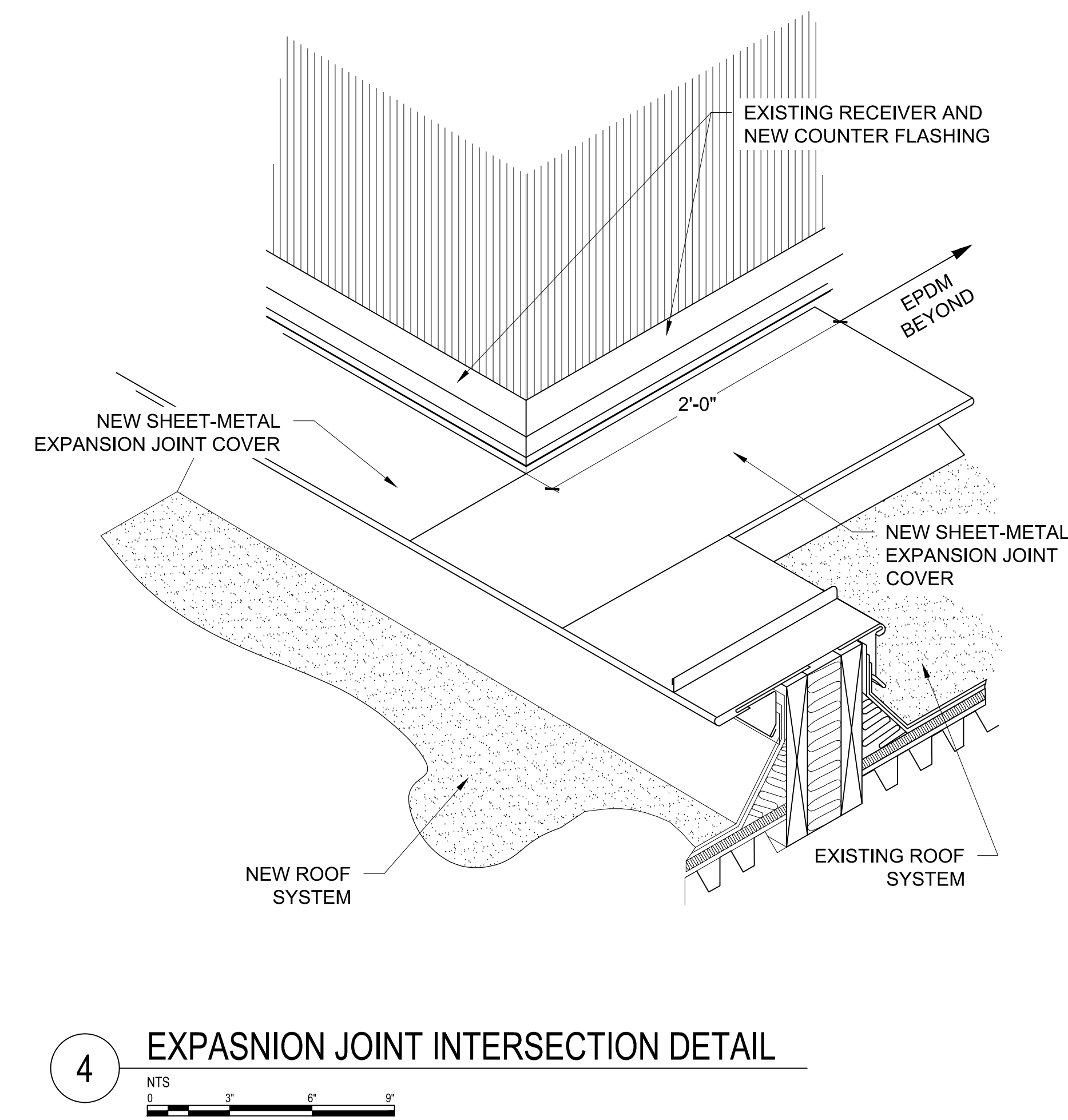
ROOF PLAN: AREA H

SHEET NUMBER:

A-102



NOTE:
NEW EXPANSION JOINT METAL TO LAP OVER EPDM EXPANSION JOINT BY 2'-0". PROVIDE CLOSURE ON OUTER METAL.



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EGM II

APPROVED BY:
LTH

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NO. 1:	DATE:	DESCRIPTION:

ENGINEER STATE LICENSE SEAL

TITLE SHEET:

ROOF DETAILS

SHEET NUMBER:

A-501

PROJECT NAME AND ADDRESS:

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- ☐ ADDENDUM SUBMITTAL
- ☐ RECORD DRAWINGS

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EGM II

APPROVED BY:

LTH

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FH166112

ADDENDUM:

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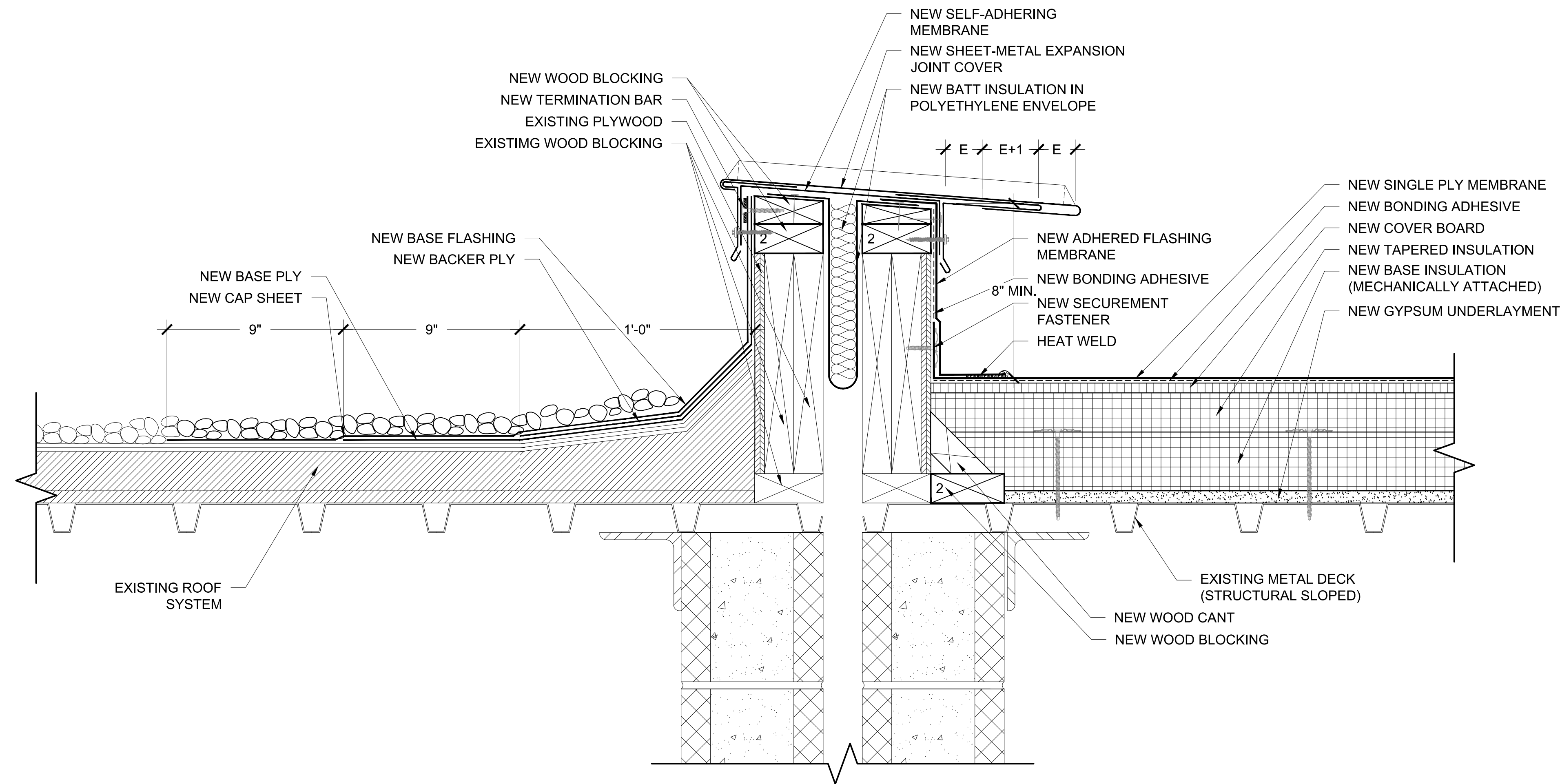
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TITLE SHEET:

ROOF DETAILS

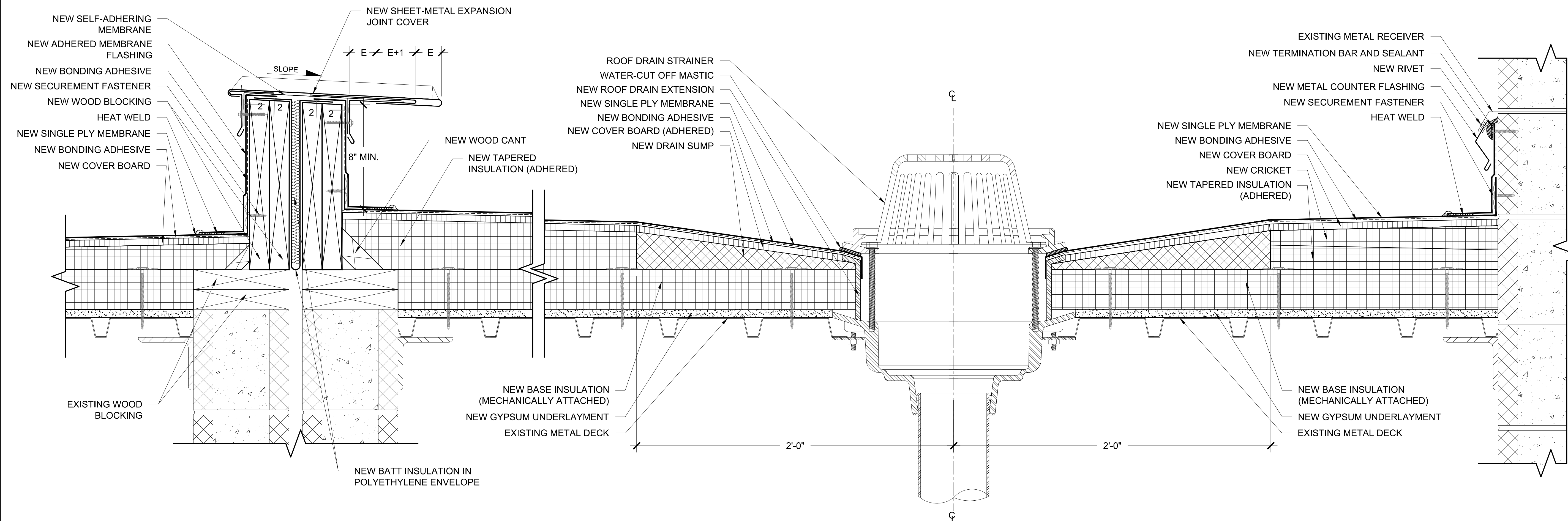
SHEET NUMBER:

A-502



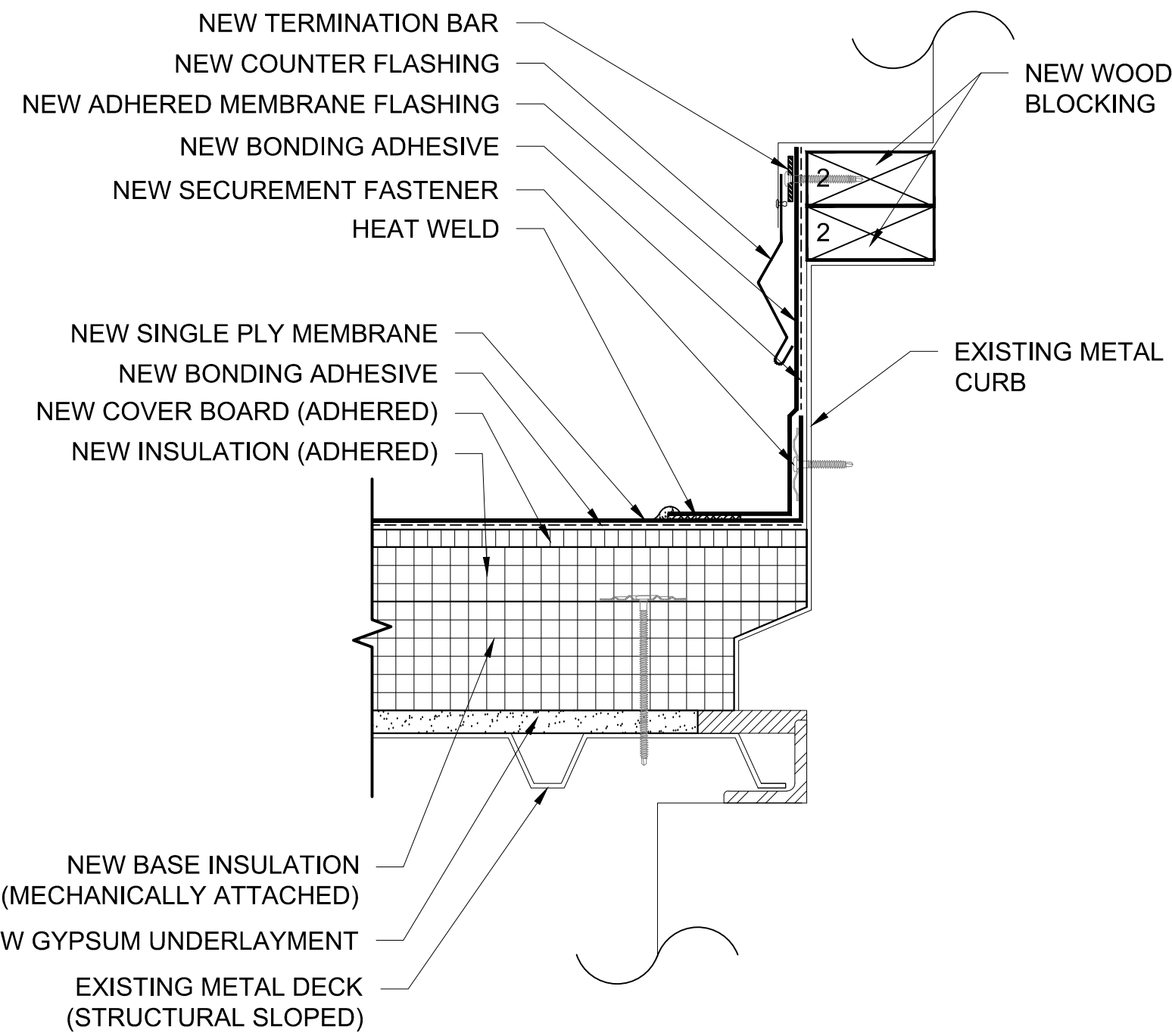
7 TRANSITION DETAIL

3"=1'-0"
0 3' 6' 9'



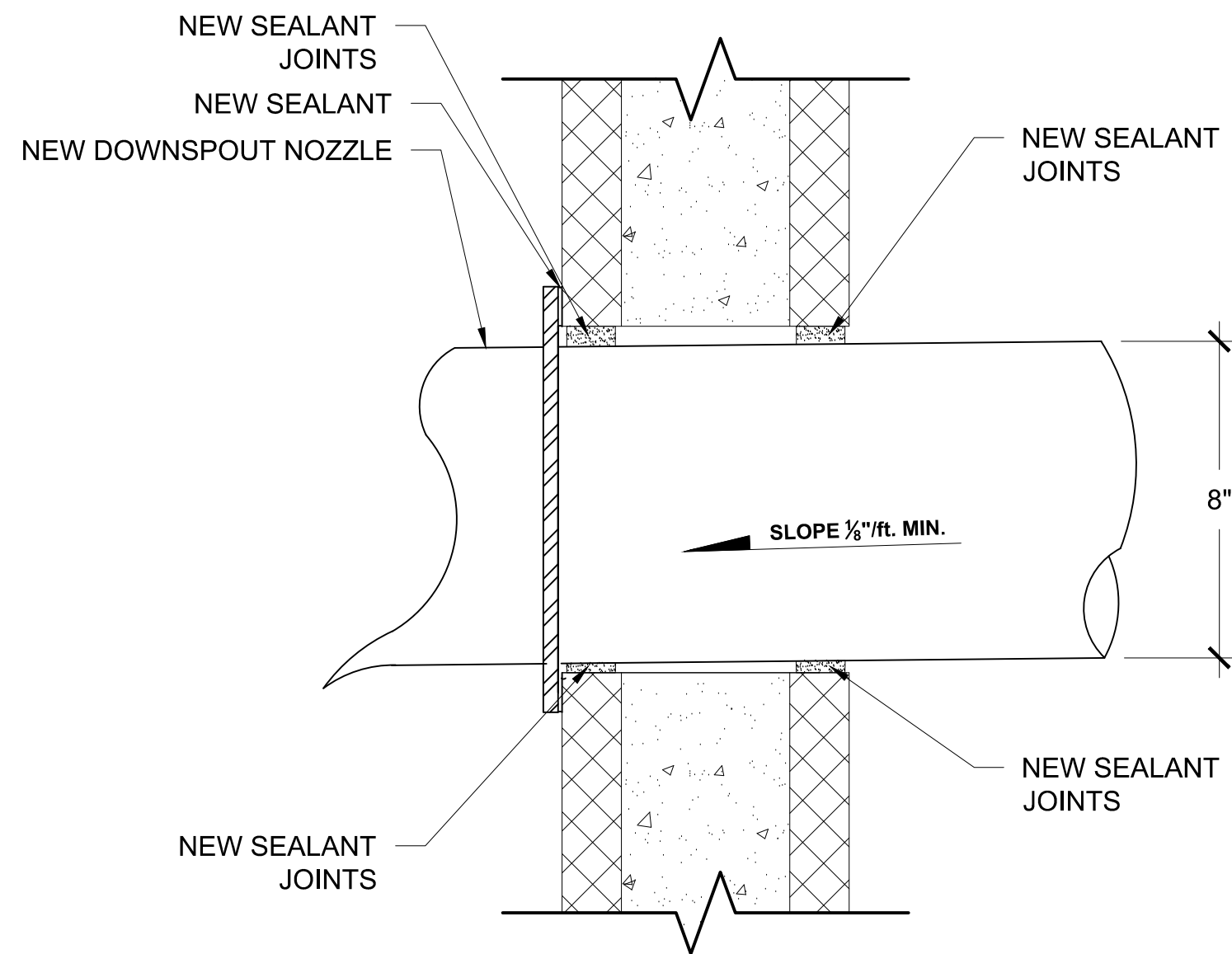
8 ROOF SECTION: AREA I, J & O

3"=1'-0"
0 3' 6' 9'

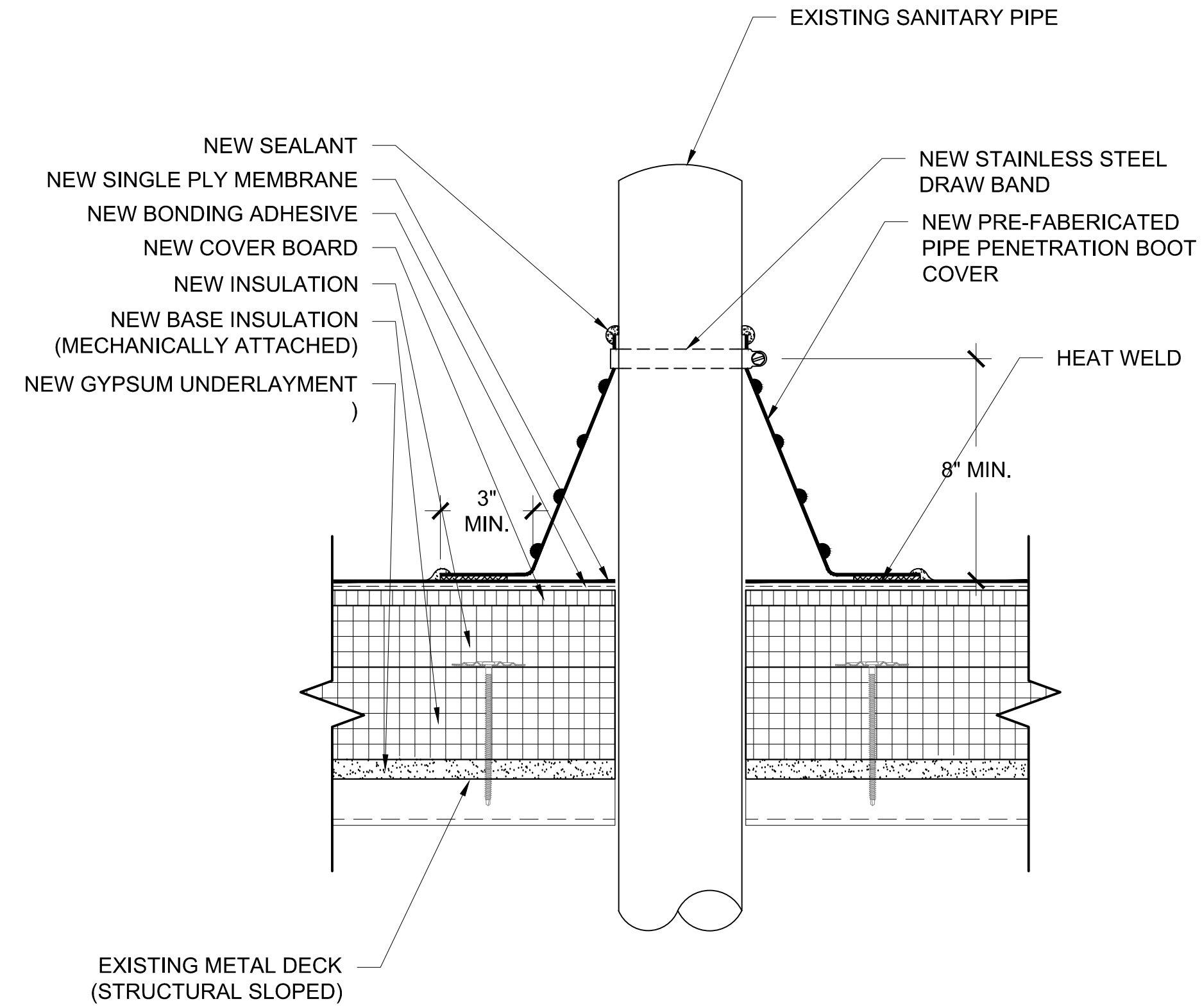


9 EQUIPMENT CURB DETAIL

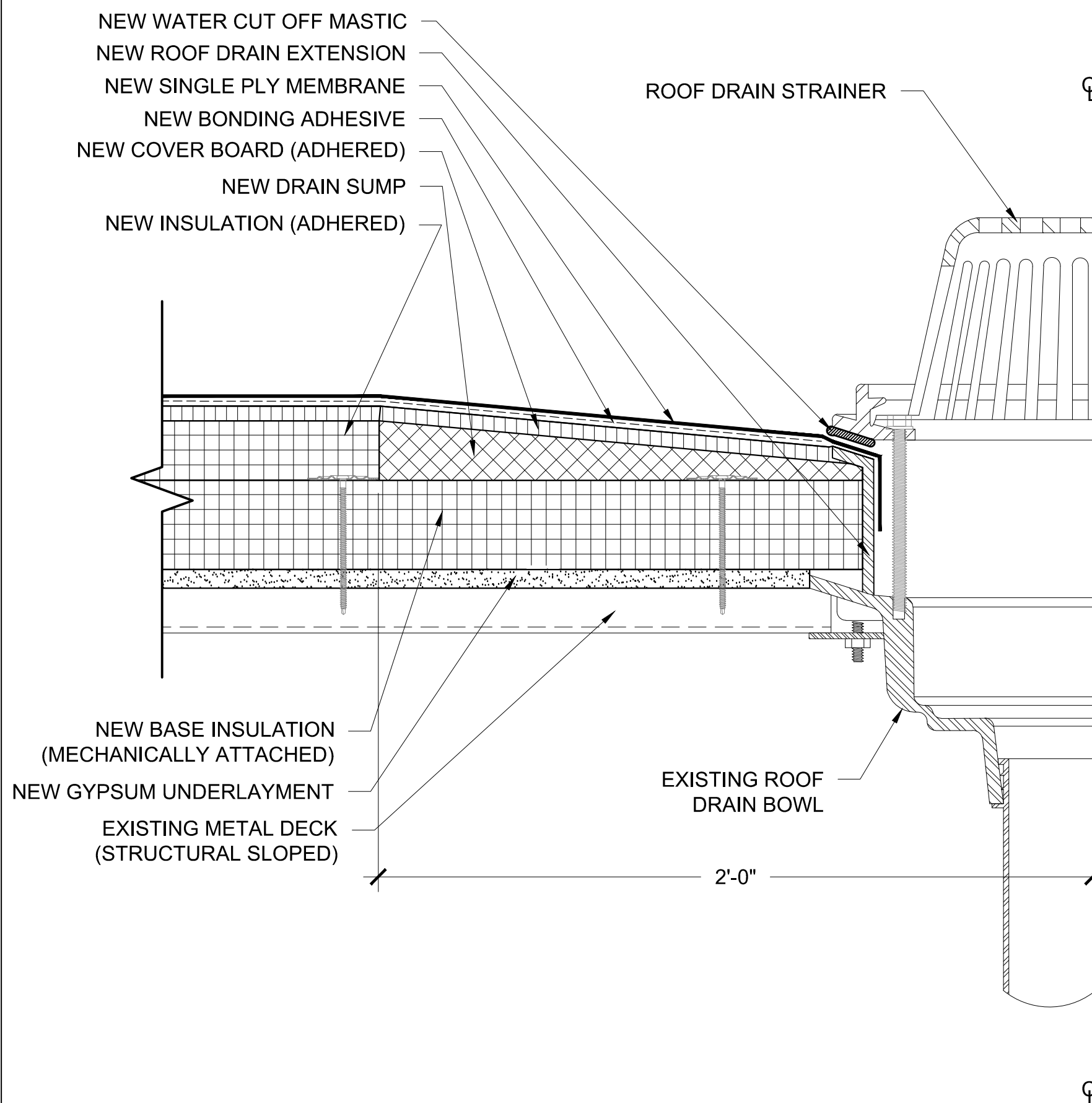
NOTE:
CONTRACTOR SHALL COORDINATE WITH
OWNER AND LEADER OUTSIDE OF SCHOOL
HOURS. CONTRACTOR IS RESPONSIBLE
FOR ALL DAMAGE TO CMU WHEN MAKING
OPENINGS.



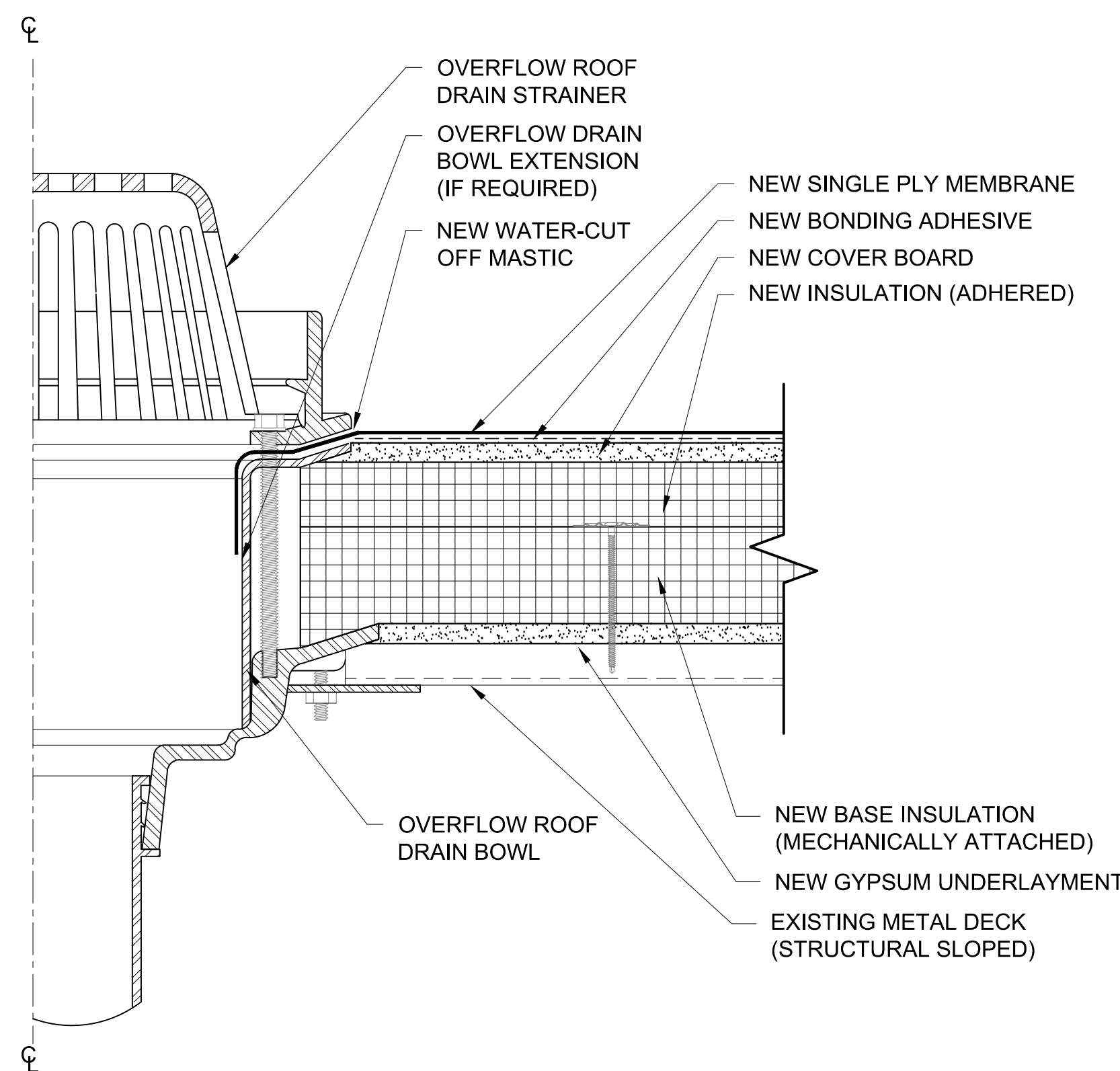
10 OVERFLOW DRAIN OUTLET



11 SANITARY PIPE PENTRATION DETAIL



12 ROOF DRAIN DETAIL



13 OVERFLOW ROOF DRAIN DETAIL

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ROOF DETAILS (ALT. No.1)

SHEET NUMBER:

A-503