

PREPARED FOR:  
WESTERN CAROLINA UNIVERSITY  
FACILITIES MANAGEMENT  
3476 OLD CULLOWHEE ROAD  
CULLOWHEE, NC 28723

WESTERN CAROLINA UNIVERSITY  
FACILITIES MANAGEMENT  
3476 OLD CULLOWHEE ROAD  
CULLOWHEE, NC 28723



Name of Project: <b>REID BUILDING - ROOF REPLACEMENT</b>					
Address: <b>160 UNIVERSITY WAY, CULLOWHEE, NC</b>			Zip Code: <b>28723</b>		
Owner or Authorized Agent: <b>WESTERN CAROLINA UNIVERSITY</b>			Phone #	<b>DANIEL FISKEAUX: (828) 227-3020</b>	
			Email	<b>DFISKEAUX@EMAIL.WCU.EDU</b>	
Owned By:		<input type="checkbox"/> City/County	<input type="checkbox"/> Private	<input checked="" type="checkbox"/> State	
Code Enforcement Jurisdiction:		<input type="checkbox"/> City	<input type="checkbox"/> County	<input checked="" type="checkbox"/> State	
<b>CONTACT: HANNAH FORD, PE, RRO, ATLAS ENGINEERING, INC.</b>					
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	EMAIL
Architectural	N/A				
Civil	N/A				
Electrical	N/A				
Fire Alarm	N/A				
Plumbing	N/A				
Mechanical	N/A				
Sprinkler-Standpipe	N/A				
Structural	N/A				
Retaining Walls	5' High N/A				
ROOFING	ATLAS ENGINEERING	HANNAH FORD	NC#54361	(919) 420-7676	HANNAH@ATLASNC.COM

*ROOF AREA ONLY		FIRE PROTECTION REQUIREMENTS	
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY
Roof construction, including supporting beams and joists	NOT APPLICABLE: ROOF REPLACEMENT WILL NOT	CHANGE THE EXISTING	REPLACE THE EXISTING
Roof Ceiling Assembly	SEPARATION DISTANCE OR RATING OF THE	ASSEMBLY OF ORIGINAL CONSTRUCTION. SYSTEM	WILL REMAIN A UL
Columns Supporting Roof	CLASS A RATED SYSTEM.		

DESIGN LOADS:		STRUCTURAL DESIGN	
Importance Factors:	Snow	( <u>1</u> )	<u>1.10</u>
	Seismic	( <u>1</u> )	<u>1.25</u>
Live Loads:	Roof	<u>20</u>	psf
Ground Snow Load:		<u>15</u>	psf
Wind Load:	Ultimate Wind Speed	<u>120</u> mph (ASCE 7)	(RISK CAT. III)
	Exposure Category	<u>B</u>	
Design Pressure (psf):	<u>AREA A</u>	<u>AREAS B, C, D, &amp; E</u>	
	Field	<u>40</u>	<u>34</u>
	Perimeter	<u>60</u>	<u>60</u>
	Perimeter Width	<u>16 FT</u>	<u>4 FT (8FT FOR B1)</u>
	Corner	<u>85</u>	<u>74</u>
	Corner Dimension	<u>16X16</u>	<u>4X4 (8X8 FOR B1)</u>
ENERGY SUMMARY			
ENERGY REQUIREMENTS:			
The following data shall be considered minimum and any special attribute required to meet the energy code should also be provided. Each designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs. annual energy cost for the proposed design.			
Existing building envelope complies with code: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes			
Exempt Building:	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Provide code or statutory reference):		
	ONLY ROOF SYSTEM IS BEING ADDRESSED IN THIS PROJECT		
Climate Zone:	<input type="checkbox"/> 3A <input checked="" type="checkbox"/> 4A <input type="checkbox"/> 5A		
Method of Compliance:			
Energy Code <input checked="" type="checkbox"/> Performance	<input type="checkbox"/> Prescriptive		
ASHRAE 90.1 <input type="checkbox"/> Performance	<input type="checkbox"/> Prescriptive		
	If "Other" specify source here _____		
THERMAL ENVELOPE			
Roof/Ceiling Assembly (each assembly)	AREA A1: STANDING SEAM METAL ROOF, SELF-ADHERED UNDERLAYMENT, 1/2" THICK PLYWOOD, EXTRUDED POLYSTYRENE INSULATION (4" TOTAL THICKNESS), 3" THICK WOOD FIBER DECK (TECTUM).		
Description of assembly:	STRUCTURAL WOOD FIBER DECK (TECTUM).		
U-Value of total assembly:	<u>0.038</u>		
R-Value of insulation:	<u>R-26.2</u> *MEETS 2009 NCECC PER NC HOUSE BILL 201		
Skylights in each assembly	<u>N/A</u>		
U-Value of skylight:	<u>N/A</u>		
	total square footage of skylights in each assembly _____		
THERMAL ENVELOPE			
Roof/Ceiling Assembly (each assembly)	SINGLE-PLY PVC/KEE THERMOPLASTIC MEMBRANE, 1/2" THICK GYPSUM-BASED CONCRETE OVER ADHERED POLYSTYRENE INSULATION (BASE AND TAPERED INSULATION WITH 3.0" (AREAS C & D) AND A MIN. 3.5" (AREAS B & E) TOTAL THICKNESS), VAPOR BARRIER, STRUCTURAL WOOD FIBER DECK (TECTUM), 3" THICK THERMAL BARRIER, STRUCTURAL WOOD FIBER DECK (TECTUM), CONCRETE PLANK DECK (AREAS B & C), METAL DECK (AREAS C & E), WOOD DECK (AREAS D & E).		
Description of assembly:	SINGLE-PLY PVC/KEE THERMOPLASTIC MEMBRANE, 1/2" THICK GYPSUM-BASED CONCRETE OVER ADHERED POLYSTYRENE INSULATION (BASE AND TAPERED INSULATION WITH 3.0" (AREAS C & D) AND A MIN. 3.5" (AREAS B & E) TOTAL THICKNESS), VAPOR BARRIER, STRUCTURAL WOOD FIBER DECK (TECTUM), 3" THICK THERMAL BARRIER, STRUCTURAL WOOD FIBER DECK (TECTUM), CONCRETE PLANK DECK (AREAS B & C), METAL DECK (AREAS C & E), WOOD DECK (AREAS D & E).		
U-Value of total assembly:	<u>0.049 (AREAS B &amp; E), 0.043 (AREAS C &amp; D)</u>		
R-Value of insulation:	<u>R-20.5 (AREAS B &amp; E), R-23.4 (AREAS C &amp; D)</u> *MEETS 2009 NCECC PER NC HOUSE BILL 201		
Skylights in each assembly	<u>N/A</u>		
U-Value of skylight:	<u>0.59</u>		
	total square footage of skylights in each assembly _____		



## BID DOCUMENTS

No.	REVISION	By	Date

DRAWN BY: HMF	
ENGINEER: HMF	
APPROVAL: KEW	
DATE: MAY 2023	
PROJ.: J2626	SCALE: AS SHOWN
DWG. NO.	

COV

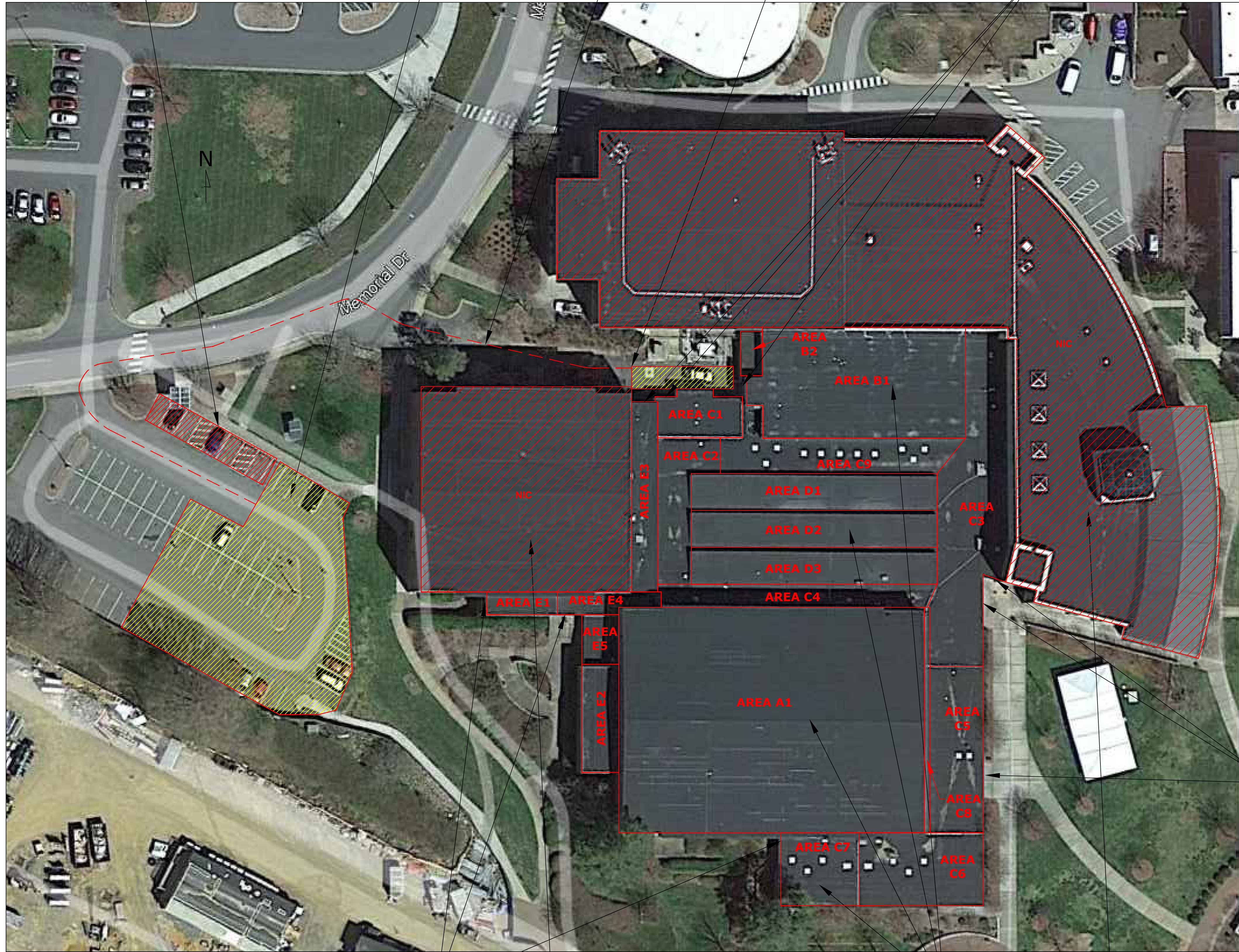
CONTRACTOR MUST MAINTAIN ACCESS TO EV CHARGING AND ADA PARKING.

PROPOSED CONTRACTOR PARKING AND STAGING/STORAGE AREA NEAR SITE.

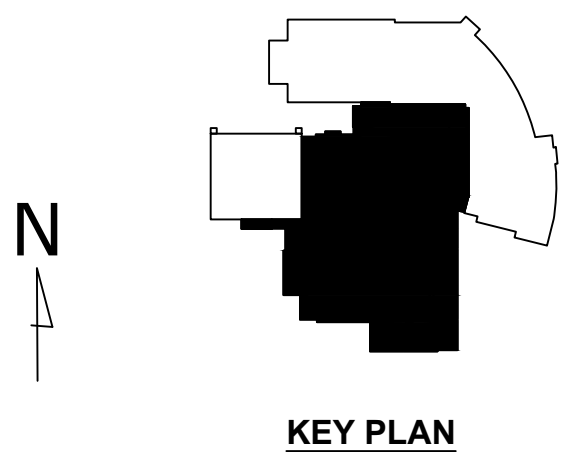
PATH TO ALLEY ACCESS

PROPOSED TEMPORARY UNLOADING AND STAGING AREA. AREA CANNOT BE PERMANENTLY BLOCKED AND MUST MAINTAIN ACCESSIBILITY FOR FACILITIES AND UTILITY USE.

OVERHEAD PROTECTION



1 SITE PLAN - STAGING AND STORAGE  
1.0 SCALE: NOT TO SCALE



NOTES TO SITE PLAN:

1. THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING DATED MAY 2023. PRIOR TO THE START OF WORK, PERFORM A PRE-JOB DAMAGE SURVEY IN ACCORDANCE WITH THE PROJECT MANUAL.
2. PROTECT EXISTING BUILDING EXTERIORS, SITE UTILITIES, EQUIPMENT, LANDSCAPING, AND OTHER SITE FEATURES FROM DAMAGE DUE TO CONSTRUCTION ACTIVITIES, INCLUDING RUNNING AND STANDING WATER. IF DAMAGE OCCURS, REPAIR AREAS AND RETURN THEM TO THEIR PRIOR CONDITION.
3. PROVISION OF A STORAGE AND STAGING AREA, PERMANENT OR TEMPORARY, BY THE OWNER DOES NOT REMOVE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE AREA(S) DURING USE AND TO MAKE REPAIRS TO RETURN THE AREA TO ITS CONDITION PRIOR TO USE. IN ADDITION, THE CONTRACTOR MUST COMPLY WITH REQUESTS/REQUIREMENTS BY WCU, BUILDING, GROUNDS, AND DPS REQUIREMENTS TO MAINTAIN PEDESTRIAN AND VEHICULAR SAFETY AROUND EACH STAGING AND STORAGE AREA AND PROTECT LANDSCAPING WHETHER OR NOT SPECIFICALLY NOTED IN THE DESIGN DOCUMENTS.
4. INSTALL FENCING MEETING THE REQUIREMENTS OF WCU AROUND EACH STAGING AND STORAGE AREA AND AROUND AREAS FOR ROOF ACCESS (MATERIALS, EQUIPMENT, AND WORKERS). UTILIZE 6' TALL CHAIN-LINK FENCING FOR MAIN STORAGE AND STAGING AREAS. ORANGE SNOW FENCING MAY BE USED AT TEMPORARY STAGING AREAS. FENCING IN PAVED/CONCRETE AREAS MUST HAVE WEIGHTED BASES TO PREVENT DAMAGE.
5. INSTALL OVERHEAD PROTECTION AT DOORS ADJACENT TO AREAS OF ROOF WORK. ENSURE OVERHEAD PROTECTION EXTENDS FAR ENOUGH FROM THE BUILDING TO PROTECT PEDESTRIANS. NOT ALL LOCATIONS MAY BE SHOWN ON THE SITE PLAN. VERIFY LOCATIONS OF OVERHEAD PROTECTION REQUIRED.
6. MAINTAIN ALL POINTS OF EGRESS FROM THE BUILDING. IF ACCESS POINTS/TEMPORARY STAGING AREAS ARE LOCATED ADJACENT TO DOORS, KEEP ACCESS POINTS CLEAR OF DEBRIS AND OBSTRUCTIONS.
7. IF THE BID WILL BE IMPACTED BY USE OF STAGING/STORAGE AREAS THAT DIFFERS SIGNIFICANTLY FROM WHAT IS SHOWN, BIDDER SHOULD OBTAIN APPROVAL IN WRITING PRIOR TO BIDDING.
8. NO INTERRUPTION OF UTILITIES MAY OCCUR WITHOUT ADVANCED APPROVAL AND SCHEDULING BY THE OWNER. ELECTRICAL SERVICE EQUIPMENT AND UTILITIES (LIGHT POLES, SITE LIGHTING, ETC.), FIRE PROTECTION SYSTEM COMPONENTS (HYDRANTS, PIV, ETC.), HVAC EQUIPMENT, STORM DRAINAGE LINES AND CATCH BASINS, ETC. MAY EXIST WITHIN OR DIRECTLY ADJACENT TO PROPOSED STORAGE AND STAGING AREAS OR INTENDED. CONSTRUCTION TRAFFIC ROUTES MUST BE LOCATED AND MARKED TO ALLOW FOR PROTECTION AT ALL TIMES THROUGHOUT THE ROOF REPLACEMENT PROJECT. ACCESS TO THESE ITEMS FOR EMERGENCY USE MUST BE PROVIDED. COVERING OF UTILITIES WITH PERMANENT FIXTURES DURING CONSTRUCTION IS NOT ALLOWED.
9. CRANES UTILIZED FOR LOADING MATERIALS AND EQUIPMENT TO THE ROOF MUST BE OPERATED BY CERTIFIED CRANE OPERATORS. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING ACCEPTABLE CRANE LIFT DATES IN ADVANCE WITH THE OWNER AND FOR PROVIDING ALL REQUIRED/REQUESTED CRANE LIFT PLANS AND INFORMATION REQUIRED BY WCU.

SITE PLAN - STAGING AND STORAGE

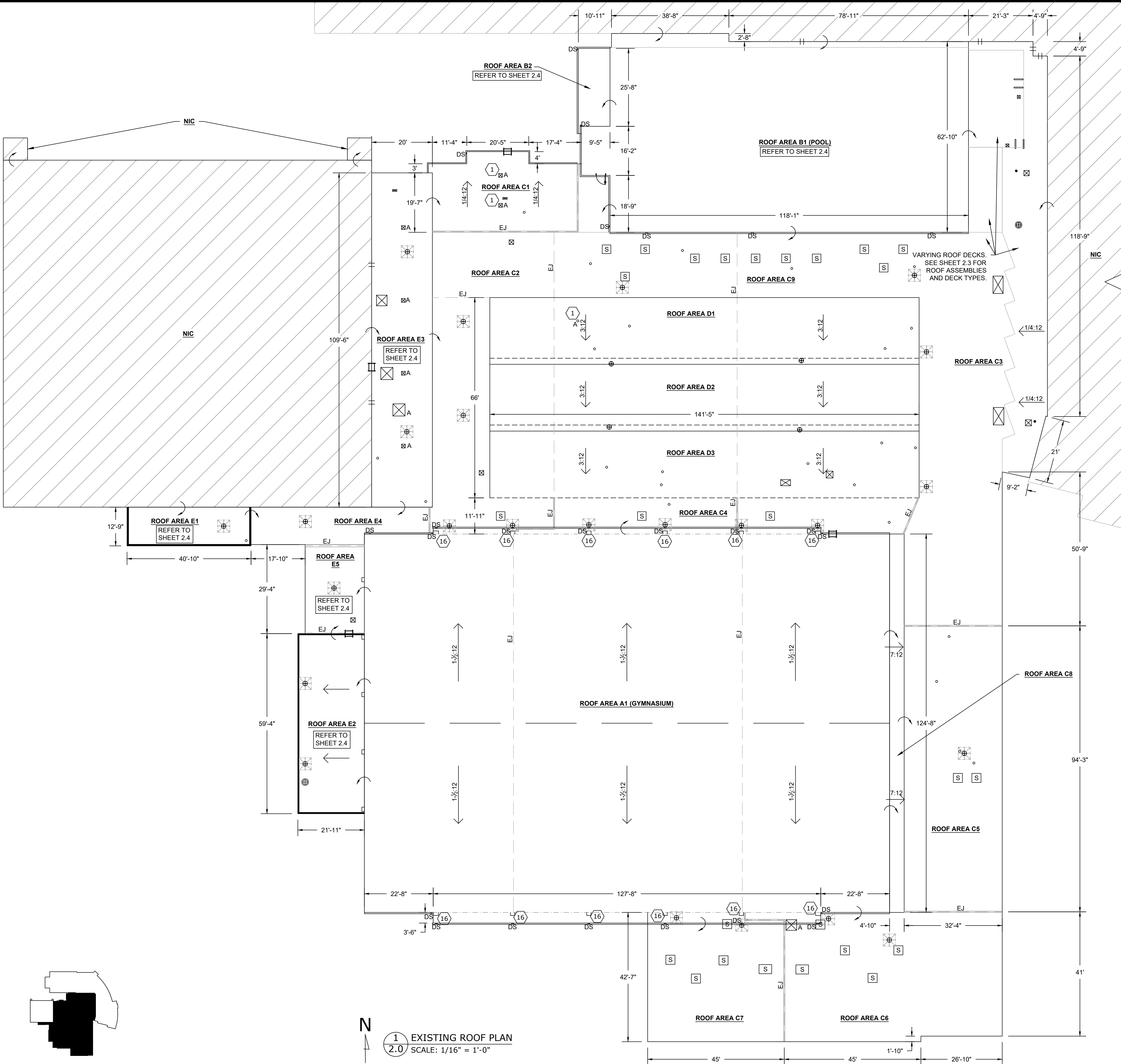
REID BUILDING - ROOF REPLACEMENT  
WESTERN CAROLINA UNIVERSITY, CULLOWHEE, NC  
SCO ID#: 22-24547-01A



No.	REVISION	By	Date

DRAWN BY:	HMF
ENGINEER:	HMF
APPROVAL:	KEW
DATE:	MAY 2023
PROJ.:	J2626
SCALE:	AS SHOWN
DWG. NO.	

1.0



NOTES TO EXISTING ROOF PLAN:

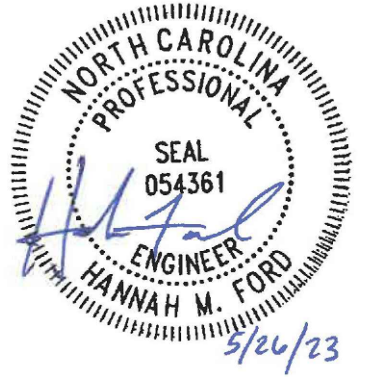
- THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING DATED MAY 2023. PRIOR TO THE START OF WORK, PERFORM A PRE-JOB DAMAGE SURVEY IN ACCORDANCE WITH THE PROJECT MANUAL.
- THIS DRAWING IS PROVIDED TO COMMUNICATE THE EXISTING SYSTEMS AND COMPONENTS OF THE VARIOUS ROOF AREAS, AS WELL AS DOCUMENT ABANDONED EQUIPMENT TO BE REMOVED AS PART OF THE BASE BID SCOPE OF WORK. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, DRAWING SCALES, ROOF CONSTRUCTIONS, PROJECT SCOPE, AND OTHER CONDITIONS SHOWN FOR THE PURPOSE OF BIDDING AND CONSTRUCTION. ALL ROOF FEATURES MAY NOT BE SHOWN OR NOT DRAWN TO SCALE FOR PURPOSE OF CLARITY.
- BASE BID SCOPE OF WORK INCLUDES REMOVAL OF THE EXISTING SYSTEMS TO THE DECK LEVEL ON ROOF AREAS A1, C1-C5, C8, D1-D3, AND E4. SEE SHEET 2.4 FOR BID ALTERNATE SCOPE OF WORK. THE EXISTING SYSTEMS ARE GENERALLY AS FOLLOWS: (THE CONTRACTOR SHALL VERIFY ROOF CONSTRUCTIONS).
  - ROOF AREA A1: EPDM, POLYISOCYANURATE INSULATION, BITUMINOUS VAPOR BARRIER, CEMENTITIOUS WOOD FIBER DECK. (TOTAL THICKNESS ~ 2")
  - ROOF AREA C1: EPDM, POLYISOCYANURATE INSULATION, BITUMINOUS VAPOR BARRIER, CEMENTITIOUS WOOD FIBER DECK. (TOTAL THICKNESS ~ 1.5" - 6.5")
  - ROOF AREAS C2, C3, C4, AND C5: EPDM, POLYISOCYANURATE INSULATION, BITUMINOUS VAPOR BARRIER, CEMENTITIOUS WOOD FIBER DECK. PORTIONS OF AREAS C2 AND C3 CONTAIN GYPSUM BOARD AND VARIOUS DEPTHS OF THERMOSETTING INSULATION FILL. ROOF AREA C3 HAS VARIOUS ROOF DECKS INCLUDING CEMENTITIOUS WOOD FIBER, WOOD, METAL, AND CONCRETE PLANK. SEE ROOF ASSEMBLIES ON SHEETS 2.2 AND 2.3. (TOTAL THICKNESS ~ 3.5" - 10")
  - ROOF AREA C8: ASPHALT SHINGLES, UNDERLAYMENT, PLYWOOD ROOF DECK, BATT INSULATION BETWEEN WOOD RAFTERS, GYPSUM BOARD, INTERIOR CEILING SPACE
  - ROOF AREAS D1, D2, & D3: EPDM, WOOD FIBER BOARD, POLYISOCYANURATE INSULATION, BITUMINOUS VAPOR BARRIER, CEMENTITIOUS WOOD FIBER DECK. THE FLAT PORTIONS BETWEEN THE CLERESTORIES HAVE VARYING DEPTHS OF THERMOSETTING INSULATION FILL AND GYPSUM BOARD. (TOTAL THICKNESS ~ 2.5" - 7")
  - ROOF AREA E4: EPDM, POLYISOCYANURATE INSULATION, BITUMINOUS VAPOR BARRIER, GYPSUM BOARD, METAL DECK. (TOTAL THICKNESS ~ 3")
- BASE BID SCOPE OF WORK INCLUDES INSTALLATION OF A COATING SYSTEM OVER THE EXISTING ROOF SYSTEMS ON ROOF AREAS C6, C7, AND C9. (AREA C9 WILL BE CREATED/ENCLOSED WITH AREA DIVIDERS DURING CONSTRUCTION). THE EXISTING SYSTEMS ARE GENERALLY AS FOLLOWS: (THE CONTRACTOR SHALL VERIFY ROOF CONSTRUCTIONS).
  - ROOF AREAS C6 AND C7: EPDM, POLYISOCYANURATE INSULATION, BITUMINOUS VAPOR BARRIER, CEMENTITIOUS WOOD FIBER DECK.
  - ROOF AREA C9: EPDM, POLYISOCYANURATE INSULATION, BITUMINOUS VAPOR BARRIER, THERMOSETTING INSULATION FILL, CEMENTITIOUS WOOD FIBER DECK. PORTIONS OF C9 CONTAIN WOOD FIBER BOARD. A SMALL PORTION OF AREA C9 ADJACENT TO THE WEST OF AREA B1 (POOL) HAS A CONCRETE PLANK DECK.
- DO NOT REMOVE MORE OF THE EXISTING ROOF SYSTEM THAN CAN BE MADE WATERTIGHT WITH NEW MATERIALS PRIOR TO THE END OF THE WORK DAY.
- INSPECT EXISTING DRAIN COMPONENTS, WOOD BLOCKING, MASONRY WALLS, AND OTHER COMPONENTS AS THEY ARE EXPOSED DURING ROOF DEMOLITION/REPAIR. IF INTENDED FOR REUSE, REPAIR DAMAGED SUBSTRATES AND COMPONENTS AS NEEDED TO PROVIDE AN ACCEPTABLE SUBSTRATE FOR INSTALLATION OF THE NEW SYSTEM.
- PROTECT EXISTING BUILDING INTERIORS, FINISHES, AND CONTENTS FROM DAMAGE DUE TO DUST, DEBRIS, AND/OR WATER ENTRY DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR REMOVING NO MORE ROOFING THAN CAN BE RETURNED TO A WATERTIGHT CONDITION PRIOR TO THE END OF EACH WORK DAY AND FOR HAVING MATERIALS READILY AVAILABLE ON-SITE FOR TEMPORARY PROTECTION OF THE WORK IN THE EVENT OF UNEXPECTED INCLEMENT WEATHER. IF DAMAGE OCCURS, REPAIR DAMAGED MATERIALS TO RETURN THEM TO THEIR PRIOR CONDITION OR REPLACE THEM WITH NEW WHEN ADEQUATE OR TIMELY REPAIR IS NOT POSSIBLE.
- REFER TO SHEET 1.0 FOR INFORMATION ON STAGING AND STORAGE AREA AND ROOF ACCESS.
- REFER TO SHEET 2.4 FOR BID ALTERNATE DETAIL CALLOUTS AND SCOPE OF WORK.

NOTES KEYED TO ROOF PLAN

- 1 REMOVE ABANDONED HVAC EQUIPMENT AND ABANDONED CURBS OR UNUSED SKYLIGHTS, AND REPAIR ROOF DECK.
- 16 INFILL MATERIAL AT PILASTERS CONTAINS ASBESTOS AND MUST BE REMOVED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS. REFER TO SECTION 024120 FOR ADDITIONAL INFORMATION.

LEGEND

- EDGE METAL
- PARAPET WALL
- GUTTER AND DOWNSPOUT
- SCUPPER
- EXPANSION JOINT
- AREA DIVIDER W/ EXPANSION JOINT
- SOFFIT
- PILASTER
- LOW-SLOPED AREA AT BASE OF STEEP SLOPE
- CHANGE IN DECK TYPE
- ELEVATION CHANGE (POINTS TO LOWER LEVEL)
- LADDER
- DRAIN (PRIMARY) W/ SUMP
- DRAIN (OVERFLOW)
- DIRECTION OF SLOPE IN STRUCTURE
- DIRECTION OF TAPERED INSULATION SLOPE
- CURBED PENETRATION WITH TAPERED CRICKET AT UPSLOPE SIDE
- CURB (ABANDONED)
- RAIL CURB
- ROUND PENETRATION
- CONDUIT PENETRATION
- SKYLIGHT PENETRATION WITH TAPERED CRICKET AT UPSLOPE SIDE
- DOOR
- KEYED NOTE

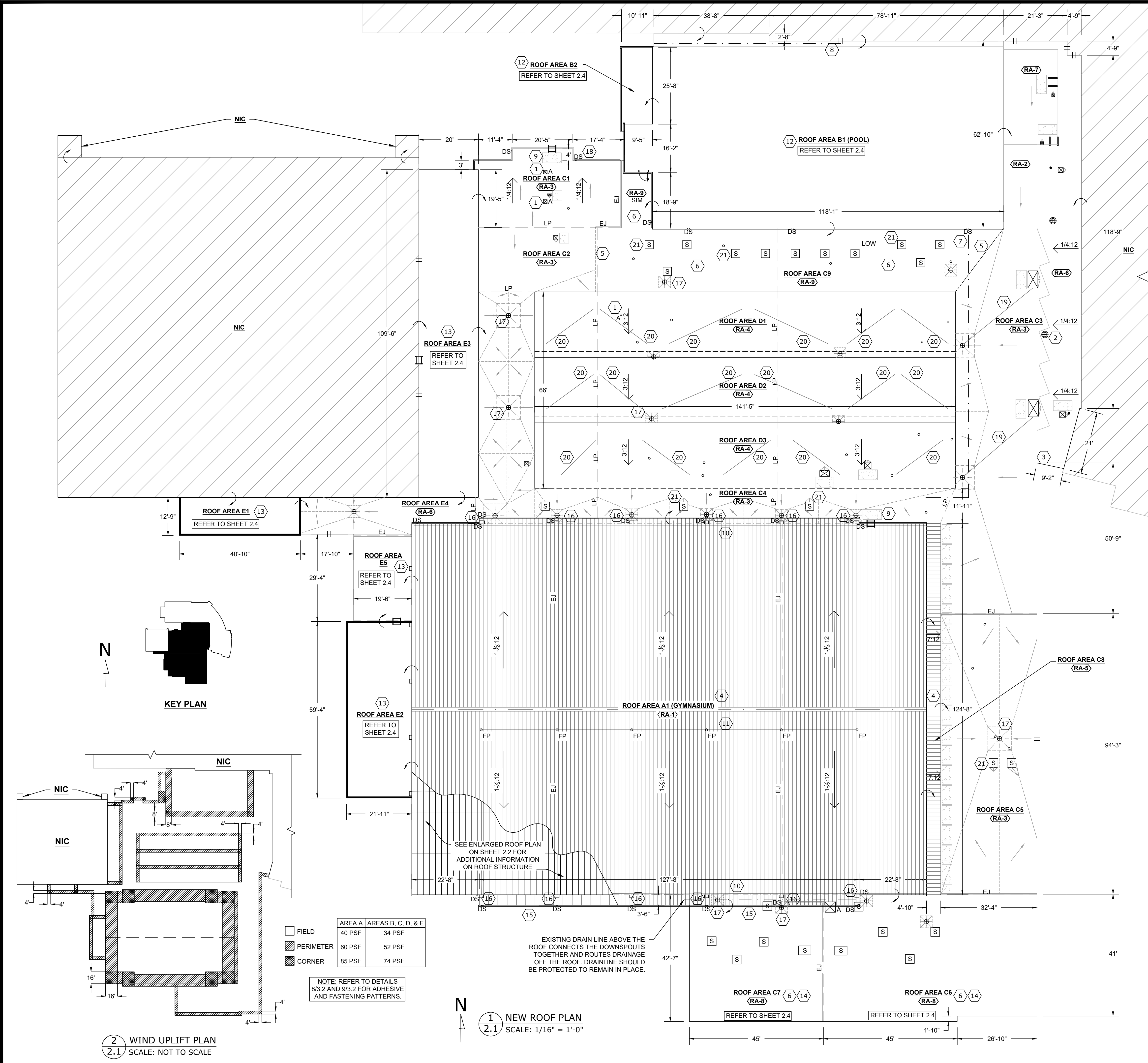


EXISTING ROOF PLAN  
REID BUILDING - ROOF REPLACEMENT  
WESTERN CAROLINA UNIVERSITY, CULLOWHEE, NC  
SCO ID #: 22-24547-01A

No.	REVISION	By	Date

DRAWN BY: HMF  
ENGINEER: HMF  
APPROVAL: KEW  
DATE: MAY 2023  
PROJ.: J2626 SCALE: AS SHOWN  
DWG. NO.

2.0



- NOTES TO NEW ROOF PLAN:**
- THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING DATED MAY 2023. PRIOR TO THE START OF WORK, PERFORM A PRE-JOB DAMAGE SURVEY IN ACCORDANCE WITH THE PROJECT MANUAL.
  - THIS DRAWING IS PROVIDED TO COMMUNICATE DESIGN INTENT FOR ROOF REPLACEMENT AND ROOF REPAIR AND TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF WORK AT THE ROOF AREAS INCLUDED ON THIS DRAWING SHEET. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, DRAWING SCALES, ROOF CONSTRUCTIONS, PROJECT SCOPE, AND OTHER CONDITIONS SHOWN FOR THE PURPOSE OF BIDDING AND CONSTRUCTION. ALL ROOF FEATURES MAY NOT BE SHOWN OR NOT DRAWN TO SCALE FOR PURPOSE OF CLARITY.
  - REFER TO ENLARGED ROOF PLANS ON SHEETS 2.2 AND 2.3 FOR NEW ROOFING ASSEMBLIES, BASE BID DETAIL CALLOUTS, AND SCOPE OF WORK.
  - DO NOT REMOVE MORE OF THE EXISTING ROOF SYSTEM THAN CAN BE MADE WATERTIGHT WITH NEW MATERIALS PRIOR TO THE END OF THE WORK DAY.
  - INSPECT EXISTING DRAIN COMPONENTS, WOOD BLOCKING, MASONRY WALLS, AND OTHER COMPONENTS AS THEY ARE EXPOSED DURING ROOF DEMOLITION/REPAIR. IF INTENDED FOR REUSE, REPAIR DAMAGED SUBSTRATES AND COMPONENTS AS NEEDED TO PROVIDE AN ACCEPTABLE SUBSTRATE FOR INSTALLATION OF THE NEW SYSTEM.
  - PROTECT EXISTING BUILDING INTERIORS, FINISHES, AND CONTENTS FROM DAMAGE DUE TO DUST, DEBRIS, AND/OR WATER ENTRY DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR REMOVING NO MORE ROOFING THAN CAN BE RETURNED TO A WATERTIGHT CONDITION PRIOR TO THE END OF EACH WORK DAY AND FOR HAVING MATERIALS READILY AVAILABLE ON-SITE FOR TEMPORARY PROTECTION OF THE WORK IN THE EVENT OF UNEXPECTED INCLEMENT WEATHER. IF DAMAGE OCCURS, REPAIR DAMAGED MATERIALS TO RETURN THEM TO THEIR PRIOR CONDITION OR REPLACE THEM WITH NEW WHEN ADEQUATE OR TIMELY REPAIR IS NOT POSSIBLE.
  - REFER TO SHEET 1.0 FOR INFORMATION ON STAGING AND STORAGE AREA AND ROOF ACCESS.
  - REFER TO SHEET 2.4 FOR BID ALTERNATE DETAIL CALLOUTS AND SCOPE OF WORK.

- NOTES KEYED TO ROOF PLAN**
- REMOVE ABANDONED HVAC EQUIPMENT AND ABANDONED CURBS OR UNUSED SKYLIGHTS, AND REPAIR ROOF DECK.
  - INSTALL ADDITIONAL 6" OVERFLOW DRAIN. EXACT LOCATION TO BE COORDINATED WITH THE DESIGNER. TIE NEW 6" HORIZONTAL DRAIN LINE INTO EXISTING OVERFLOW DRAIN LINE.
  - RELOCATE/MODIFY OVERFLOW OUTLET ABOVE DOORWAY TO THE SIDE OF THE DOOR.
  - NEW STANDING SEAM METAL ROOF SYSTEM.
  - INSTALL TEMPORARY AREA DIVIDERS TO ISOLATE AREA TO RECEIVE COATING. AREA DIVIDER WALLS WILL HAVE SCUPPER OPENINGS TO ACCOMMODATE DRAINAGE OF ADJACENT ROOF AREAS. THESE AREA DIVIDERS ARE TEMPORARY AND SHOULD BE REMOVED WHEN ROOF AREA C9 IS REPLACED IN THE FUTURE.
  - INSTALL COATING OVER EXISTING EDPM ROOF MEMBRANE. ROOF SYSTEM BENEATH THE MEMBRANE VARIES.
  - INSTALL PVC PIPING AND NON-PENETRATING PIPE SUPPORTS ON MEMBRANE SLIP-SHEETS TO REROUTE WATER. EXISTING DOWNSPOUT FROM AREA B1 WILL NEED TO BE MODIFIED TO CONNECT TO PVC PIPE AND PROVIDE POSITIVE DRAINAGE FOR THE LENGTH OF THE PIPE.
  - INSTALL NEW CONDUCTOR HEADS AND DRAIN LINE TO RE-ROUTE OVERFLOW DRAINAGE. DRAIN LINE WILL RUN VERTICAL TO ROOF AREA B1 WITH DOWNSPOUT STRAP SUPPORTS AT THE TOP AND BOTTOM AND 8'-0" MAX SPACING BETWEEN STRAPS. THE CONDUCTOR HEAD, VERTICAL DRAIN LINE, AND STRAPS SHOULD MATCH THE ADJACENT METAL WALL PANEL PRE-FINISH COLOR. INSTALL NEW HORIZONTAL PVC DRAIN LINE ON NON-PENETRATING PIPE SUPPORTS ON MEMBRANE SLIP-SHEETS, RUNNING WEST TOWARDS THE ALLEY TO DISCHARGE OVER THE EDGE OF AREA B1.
  - EXISTING LADDERS TO REMAIN. CLEAN AND PAINT THE LADDERS AND CONNECTING SUPPORTS WITH APPROVED PAINT. MODIFY LADDERS AS NEEDED TO ACCOMMODATE NEW ROOF HEIGHT.
  - INSTALL NEW SNOW GUARD SYSTEM ON STANDING SEAM METAL ROOF. LOCATE SNOW GUARDS OVER EXTERIOR WALL BELOW.
  - INSTALL NEW FALL PROTECTION ANCHORS AND HORIZONTAL LIFELINE SYSTEM.
  - BID ALTERNATE 01 - ROOF REPLACEMENT OF AREAS B1 AND B2.
  - BID ALTERNATE 02 - ROOF REPLACEMENT OF AREAS E1, E2, E3, AND E5. BITUMINOUS MEMBRANE AND FLASHING ON ROOF AREA E2 CONTAINS ASBESTOS AND MUST BE REMOVED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS. REFER TO SECTION 024120 FOR ADDITIONAL INFORMATION.
  - BID ALTERNATE 03 - ROOF REPLACEMENT OF AREAS C6 AND C7.
  - BID ALTERNATE 04 - SUNSHADE REMOVAL.
  - INFILL MATERIAL AT PILASTERS CONTAINS ASBESTOS AND MUST BE REMOVED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS. REFER TO SECTION 024120 FOR ADDITIONAL INFORMATION.
  - INSTALL NEW DRAIN STRAINER. REFER TO SECTIONS 077200 AND 221423 FOR ADDITIONAL INFORMATION.
  - INSTALL NEW DOWNSPOUT WITH A 45-DEGREE KICK AT GRADE AND CONCRETE SPLASH BLOCK. COORDINATE EXACT LOCATION WITH THE DESIGNER.
  - EXISTING CONDENSATE LINES ON NON-PENETRATING SUPPORTS TO REMAIN. PROTECT DURING CONSTRUCTION.
  - INSTALL NEW WATER DIVERTERS TO SLOW AND DIRECT WATER. INSTALL FOAM BACKER ROD AND MEMBRANE FLASHING HEAT-WELDED TO THE FIELD MEMBRANE.
  - REPLACE DAMAGED SKYLIGHT.

**LEGEND**

EDGE METAL	DRAIN (PRIMARY) W/ SUMP
PARAPET WALL	DRAIN (OVERFLOW)
GUTTER AND DOWNSPOUT	DIRECTION OF SLOPE IN STRUCTURE
SCUPPER	DIRECTION OF TAPERED INSULATION SLOPE
LOW PROFILE EXPANSION JOINT	CURBED PENETRATION WITH TAPERED CRICKET AT UPSLOPE SIDE
AREA DIVIDER W/ EXPANSION JOINT	CURB (ABANDONED)
SOFFIT	RAIL CURB
PILASTER	ROUND PENETRATION
LOW-SLOPED AREA AT BASE OF STEEP SLOPE	CONDUIT PENETRATION
CHANGE IN DECK TYPE	SKYLIGHT PENETRATION WITH TAPERED CRICKET AT UPSLOPE SIDE
ELEVATION CHANGE (POINTS TO LOWER LEVEL)	DOOR
LADDER	KEYED NOTE
WALKPAD/WALKTREAD. PLACE WHERE SHOWN AND NEXT TO ALL SERVICEABLE CURBED EQUIPMENT	ROOF ASSEMBLY NUMBER
FALL PROTECTION ANCHOR WITH HORIZONTAL LIFELINE	DETAIL CALLOUT: DETAIL "X" ON SHEET "X-X"
	NEW HORIZONTAL PVC DRAINLINE ON NON-PENETRATING PIPE SUPPORTS

ATLAS ENGINEERING, INC.  
551A Pylon Drive  
Raleigh, North Carolina 27606  
(919) 420-7676  
LIC. # C-1349

PROFESSIONAL ENGINEER  
SEAL 054361  
HANNAH M. FORD  
3/24/23

**NEW ROOF PLAN**

REID BUILDING - ROOF REPLACEMENT  
WESTERN CAROLINA UNIVERSITY, CULLOWHEE, NC  
SCO ID#: 22-24547-01A

No.	REVISION	By	Date

DRAWN BY: HMF

ENGINEER: HMF

APPROVAL: KEW

DATE: MAY 2023

PROJ.: J2626 SCALE: AS SHOWN

DWG. NO.

2.1

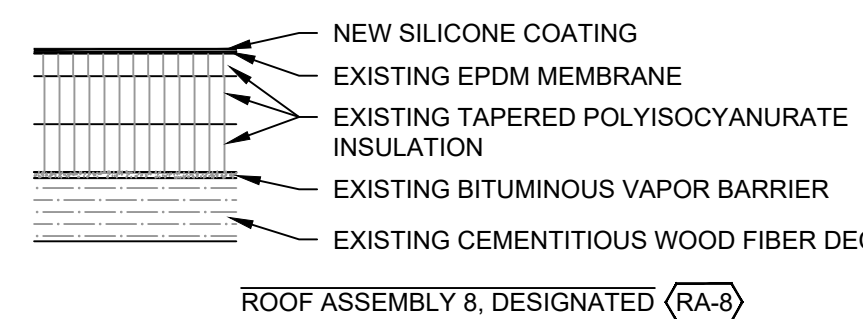
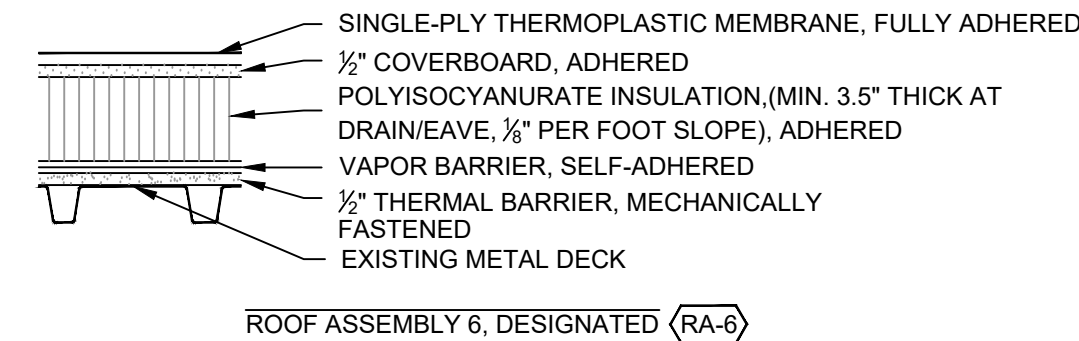
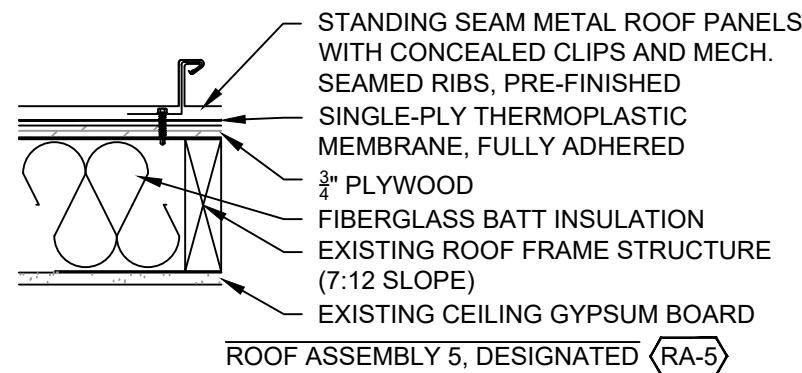
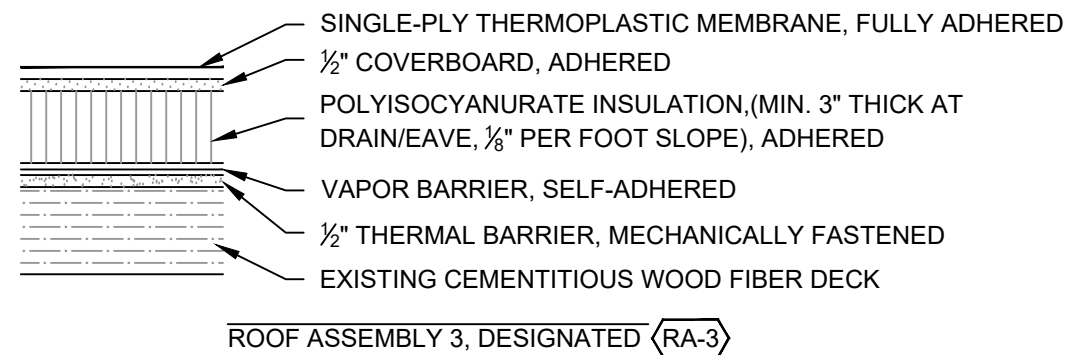
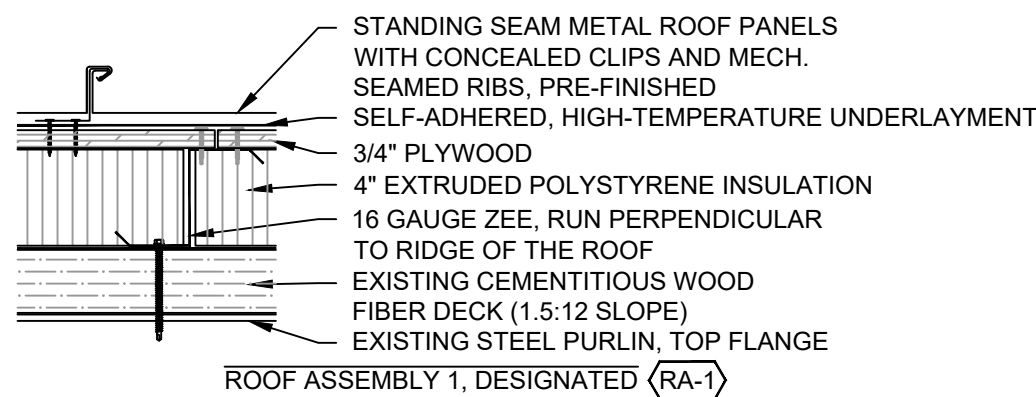
NOTES TO ENLARGED ROOF PLANS:

- THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING DATED MAY 2023. PRIOR TO THE START OF WORK, PERFORM A PRE-JOB DAMAGE SURVEY IN ACCORDANCE WITH THE PROJECT MANUAL.
- THIS DRAWING IS PROVIDED TO COMMUNICATE DESIGN INTENT FOR ROOF REPLACEMENT AND ROOF REPAIR AND TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF WORK AND DETAILS AT THE ROOF AREA(S) INCLUDED ON THIS DRAWING SHEET. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, DRAWING SCALES, ROOF CONSTRUCTIONS, PROJECT SCOPE, AND OTHER CONDITIONS SHOWN FOR THE PURPOSE OF BIDDING AND CONSTRUCTION. ALL ROOF FEATURES MAY NOT BE SHOWN OR NOT DRAWN TO SCALE FOR PURPOSE OF CLARITY.
- REMOVE THE EXISTING ROOF SYSTEMS TO THE EXISTING DECKS ON THE ROOF AREAS INCLUDED IN THE BASE BID SCOPE OF WORK. REFER TO SHEET 2.0 FOR SYSTEM DESCRIPTIONS OF BASE BID ROOF AREAS. INSTALL NEW ROOFING SYSTEMS AS SHOWN IN THE BELOW ROOFING ASSEMBLIES, AND IN ACCORDANCE WITH THE PROJECT MANUAL.
- DO NOT REMOVE MORE OF THE EXISTING ROOF SYSTEM THAN CAN BE MADE WATERTIGHT WITH NEW MATERIALS PRIOR TO THE END OF THE WORK DAY.
- INSPECT EXISTING DRAIN COMPONENTS, WOOD BLOCKING, MASONRY WALLS, AND OTHER COMPONENTS AS THEY ARE EXPOSED DURING ROOF DEMOLITION/REPAIR. IF INTENDED FOR REUSE, REPAIR DAMAGED SUBSTRATES AND COMPONENTS AS NEEDED TO PROVIDE AN ACCEPTABLE SUBSTRATE FOR INSTALLATION OF THE NEW SYSTEM. PERFORM INFRARED SURVEY ON ROOF AREAS TO BE COATED TO IDENTIFY AREAS OF SUSPECTED WET INSULATION TO BE REPAIRED PRIOR TO COATING APPLICATION AS REQUIRED BY THE MANUFACTURER TO OBTAIN SPECIFIED WARRANTY. CLEANING AND REPAIRS TO EXISTING EPDM NEEDED AS REQUIRED BY THE MANUFACTURER.
- PROTECT EXISTING BUILDING INTERIORS, FINISHES, AND CONTENTS FROM DAMAGE DUE TO DUST, DEBRIS, AND/OR WATER ENTRY DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR HAVING MATERIALS READILY AVAILABLE ON-SITE FOR TEMPORARY PROTECTION OF THE WORK IN THE EVENT OF UNEXPECTED INCLEMENT WEATHER. IF DAMAGE OCCURS, REPAIR DAMAGED MATERIALS TO RETURN THEM TO THEIR PRIOR CONDITION OR REPLACE THEM WITH NEW WHEN ADEQUATE OR TIMELY REPAIR IS NOT POSSIBLE.
- REFER TO SHEET 1.0 FOR INFORMATION ON STAGING AND STORAGE AREA AND ROOF ACCESS.
- REFER TO SHEET 2.1 FOR KEYED NOTES TO THE OVERALL ROOF PLAN.
- REFER TO SHEET 2.4 FOR BID ALTERNATE DETAIL CALLOUTS AND BID ALTERNATE SCOPE OF WORK.

LEGEND

- |   |  |   |  |
|---|--|---|--|
| EDGE METAL  |  | DRAIN (PRIMARY) W/ SUMP                                       |  |
| PARAPET WALL  |  | DRAIN (OVERFLOW)  |  |
| GUTTER AND DOWNSPOUT  |  | DIRECTION OF SLOPE IN STRUCTURE                               |  |
| SCUPPER   |  | DIRECTION OF TAPERED INSULATION SLOPE                         |  |
| LOW PROFILE EXPANSION JOINT   |  | CURBED PENETRATION WITH TAPERED CRICKET AT UPSLOPE SIDE       |  |
| AREA DIVIDER W/ EXPANSION JOINT   |  | CURB (ABANDONED)  |  |
| SOFFIT  |  | RAIL CURB   |  |
| PILASTER  |  | ROUND PENETRATION   |  |
| LOW-SLOPED AREA AT BASE OF STEEP SLOPE  |  | CONDUIT PENETRATION   |  |
| CHANGE IN DECK TYPE   |  | SKYLIGHT PENETRATION WITH TAPERED CRICKET AT UPSLOPE SIDE     |  |
| ELEVATION CHANGE (POINTS TO LOWER LEVEL)  |  | DOOR  |  |
| LADDER  |  | KEYED NOTE  |  |
| WALKPAD/WALKTREAD: PLACE WHERE SHOWN AND NEXT TO ALL SERVICEABLE CURBED EQUIPMENT |  | ROOF ASSEMBLY NUMBER  |  |
| FALL PROTECTION ANCHOR WITH HORIZONTAL LIFELINE                                   |  | DETAIL CALLOUT: DETAIL "X" ON SHEET "X.X"                     |  |
|   |  | NEW HORIZONTAL PVC DRAINLINE ON NON-PENETRATING PIPE SUPPORTS |  |

NEW ROOFING ASSEMBLIES



NOTE: REFER TO DETAIL 1/3.0 FOR ADDITIONAL INFORMATION REGARDING ROOF ASSEMBLY 1.

NOTE: REFER TO DETAIL 7/3.0 FOR ADDITIONAL INFORMATION REGARDING ROOF ASSEMBLY 5.

1 ENLARGED ROOF PLAN - SOUTH SECTION  
2.2 SCALE: 3/32" = 1'-0"

2 NEW PLYWOOD ROOF DECK LAYOUT  
2.2 SCALE: NOT TO SCALE

N

N

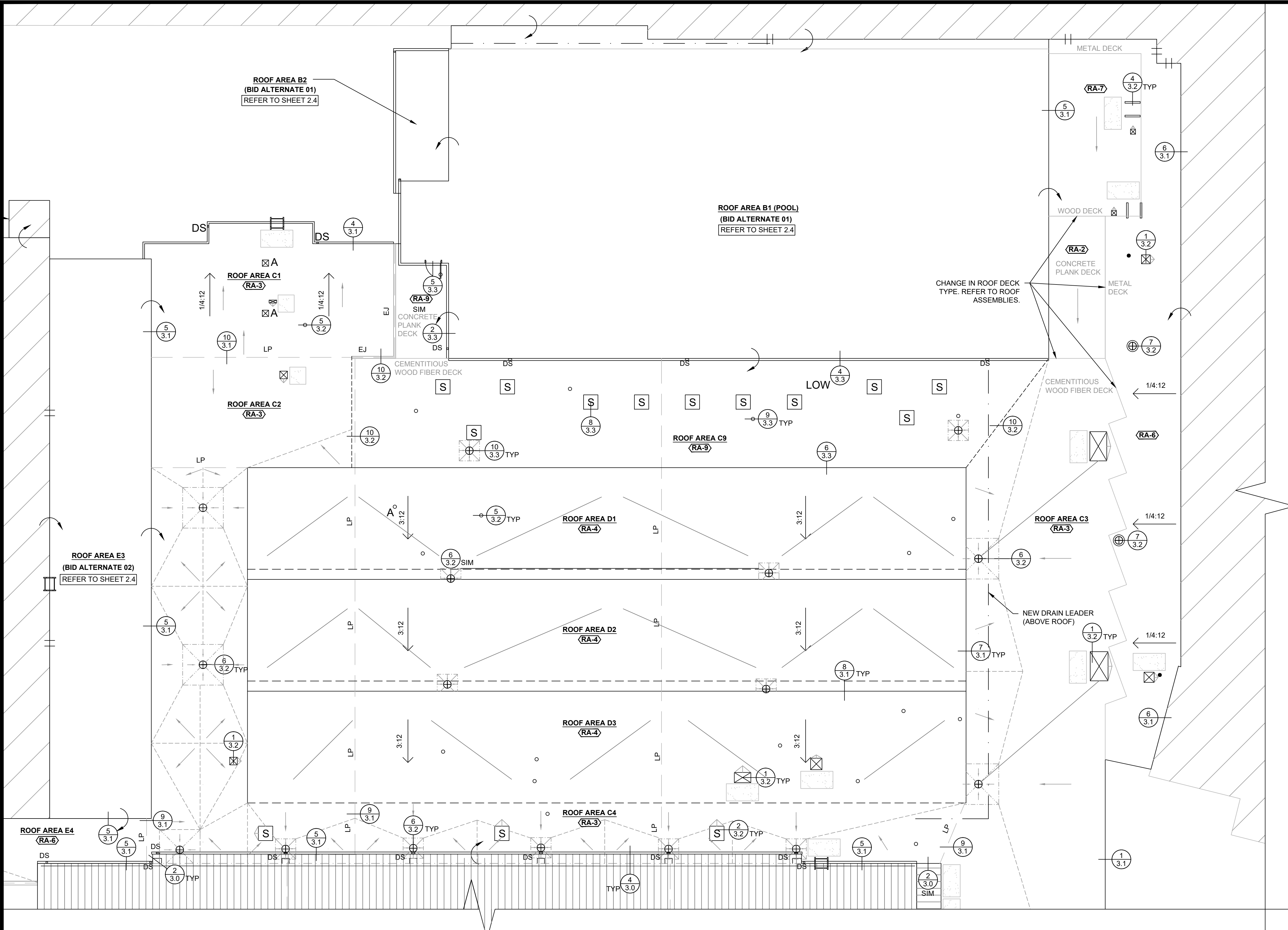
KEY PLAN

No.	REVISION	By	Date

DRAWN BY: HMF  
ENGINEER: HMF  
APPROVAL: KEW  
DATE: MAY 2023  
PROJ.: J2626 SCALE: AS SHOWN  
DWG. NO.

2.2

BID DOCUMENTS



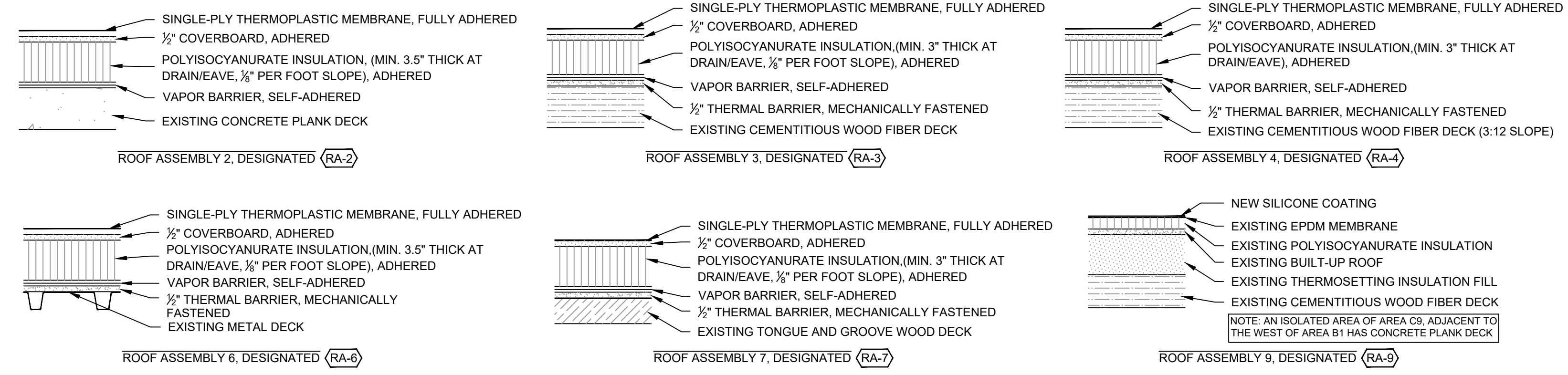
- NOTES TO ENLARGED ROOF PLANS:**
- THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING DATED MAY 2023. PRIOR TO THE START OF WORK, PERFORM A PRE-JOB DAMAGE SURVEY IN ACCORDANCE WITH THE PROJECT MANUAL.
  - THIS DRAWING IS PROVIDED TO COMMUNICATE DESIGN INTENT FOR ROOF REPLACEMENT AND ROOF REPAIR AND TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF WORK AND DETAILS AT THE ROOF AREA(S) INCLUDED ON THIS DRAWING SHEET. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, DRAWING SCALES, ROOF CONSTRUCTIONS, PROJECT SCOPE, AND OTHER CONDITIONS SHOWN FOR THE PURPOSE OF BIDDING AND CONSTRUCTION. ALL ROOF FEATURES MAY NOT BE SHOWN OR NOT DRAWN TO SCALE FOR PURPOSE OF CLARITY.
  - REMOVE THE EXISTING ROOF SYSTEMS TO THE EXISTING DECKS ON THE ROOF AREAS INCLUDED IN THE BASE BID SCOPE OF WORK. REFER TO SHEET 2.0 FOR SYSTEM DESCRIPTIONS OF BASE BID ROOF AREAS. INSTALL NEW ROOFING SYSTEMS ON EACH AREA WITH THEIR DESIGNATED SYSTEM SHOWN IN THE BELOW ROOFING ASSEMBLIES, AND IN ACCORDANCE WITH THE PROJECT MANUAL.
  - DO NOT REMOVE MORE OF THE EXISTING ROOF SYSTEM THAN CAN BE MADE WATERTIGHT WITH NEW MATERIALS PRIOR TO THE END OF THE WORK DAY.
  - INSPECT EXISTING DRAIN COMPONENTS, WOOD BLOCKING, MASONRY WALLS, AND OTHER COMPONENTS AS THEY ARE EXPOSED DURING ROOF DEMOLITION/REPAIR. IF INTENDED FOR REUSE, REPAIR DAMAGED SUBSTRATES AND COMPONENTS AS NEEDED TO PROVIDE AN ACCEPTABLE SUBSTRATE FOR INSTALLATION OF THE NEW SYSTEM.
  - PROTECT EXISTING BUILDING INTERIORS, FINISHES, AND CONTENTS FROM DAMAGE DUE TO DUST, DEBRIS, AND/OR WATER ENTRY DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR REMOVING NO MORE ROOFING THAN CAN BE RETURNED TO A WATERTIGHT CONDITION PRIOR TO THE END OF EACH WORK DAY AND FOR HAVING MATERIALS READILY AVAILABLE ON-SITE FOR TEMPORARY PROTECTION OF THE WORK IN THE EVENT OF UNEXPECTED INCLEMENT WEATHER. IF DAMAGE OCCURS, REPAIR DAMAGED MATERIALS TO RETURN THEM TO THEIR PRIOR CONDITION OR REPLACE THEM WITH NEW WHEN ADEQUATE OR TIMELY REPAIR IS NOT POSSIBLE.
  - REFER TO SHEET 1.0 FOR INFORMATION ON STAGING AND STORAGE AREA AND ROOF ACCESS.
  - REFER TO SHEET 2.1 FOR KEYED NOTES TO THE OVERALL ROOF PLAN.
  - REFER TO SHEET 2.4 FOR BID ALTERNATE DETAIL CALLOUTS AND BID ALTERNATE SCOPE OF WORK.

LEGEND	
	EDGE METAL
	PARAPET WALL
	GUTTER AND DOWNSPOUT
	SCUPPER
	LOW PROFILE EXPANSION JOINT
	AREA DIVIDER W/ EXPANSION JOINT
	SOFFIT
	PILASTER
	LOW-SLOPED AREA AT BASE OF STEEP SLOPE
	CHANGE IN DECK TYPE
	ELEVATION CHANGE (POINTS TO LOWER LEVEL)
	LADDER
	WALKPAD/WALKTREAD. PLACE WHERE SHOWN AND NEXT TO ALL SERVICEABLE CURBED EQUIPMENT
	FALL PROTECTION ANCHOR WITH HORIZONTAL LIFELINE
	DRAIN (PRIMARY) W/ SUMP
	DRAIN (OVERFLOW)
	DIRECTION OF SLOPE IN STRUCTURE
	DIRECTION OF TAPERED INSULATION SLOPE
	CURBED PENETRATION WITH TAPERED CRICKET AT UPSLOPE SIDE
	CURB (ABANDONED)
	RAIL CURB
	ROUND PENETRATION
	CONDUIT PENETRATION
	SKYLIGHT PENETRATION WITH TAPERED CRICKET AT UPSLOPE SIDE
	DOOR
	KEYED NOTE
	ROOF ASSEMBLY NUMBER
	DETAIL CALLOUT: DETAIL "X" ON SHEET "X.X"
	NEW HORIZONTAL PVC DRAINLINE ON NON-PENETRATING PIPE SUPPORTS

**1** ENLARGED ROOF PLAN - NORTH SECTION  
**2.3** SCALE: 3/32" = 1'-0"

**KEY PLAN**

**NEW ROOFING ASSEMBLIES**



**BID DOCUMENTS**

**ATLAS ENGINEERING, INC.**  
551A Pylon Drive  
Raleigh, North Carolina 27606  
(919) 420-7676  
LIC. # C-1349

**PROFESSIONAL SEAL**  
054361  
JANNAH M. FORD  
3/24/23

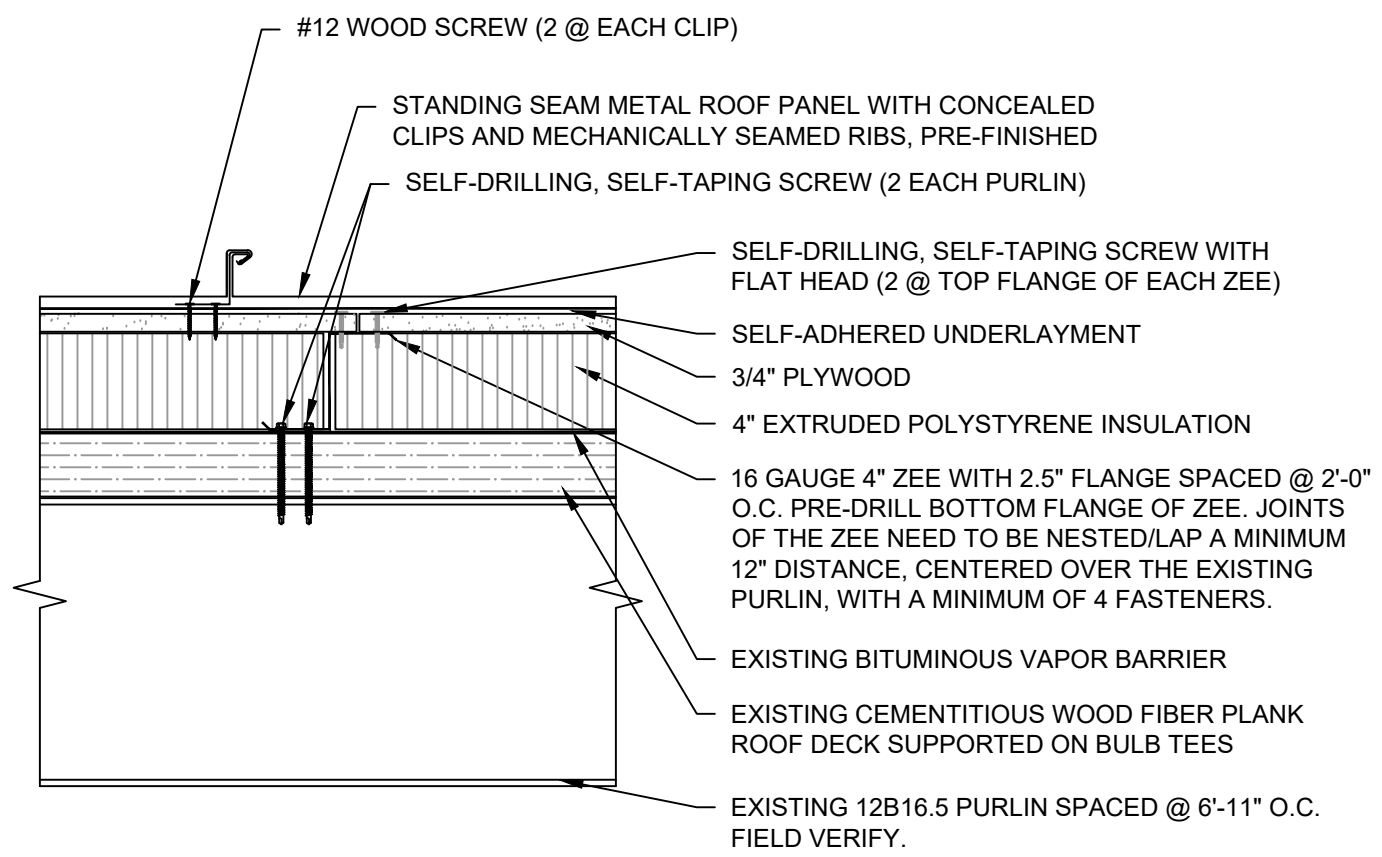
**ENLARGED ROOF PLAN - NORTH SECTION**  
REID BUILDING - ROOF REPLACEMENT  
WESTERN CAROLINA UNIVERSITY, CULLOWHEE, NC  
SCO ID#: 22-24547-01A

No.	REVISION	By	Date

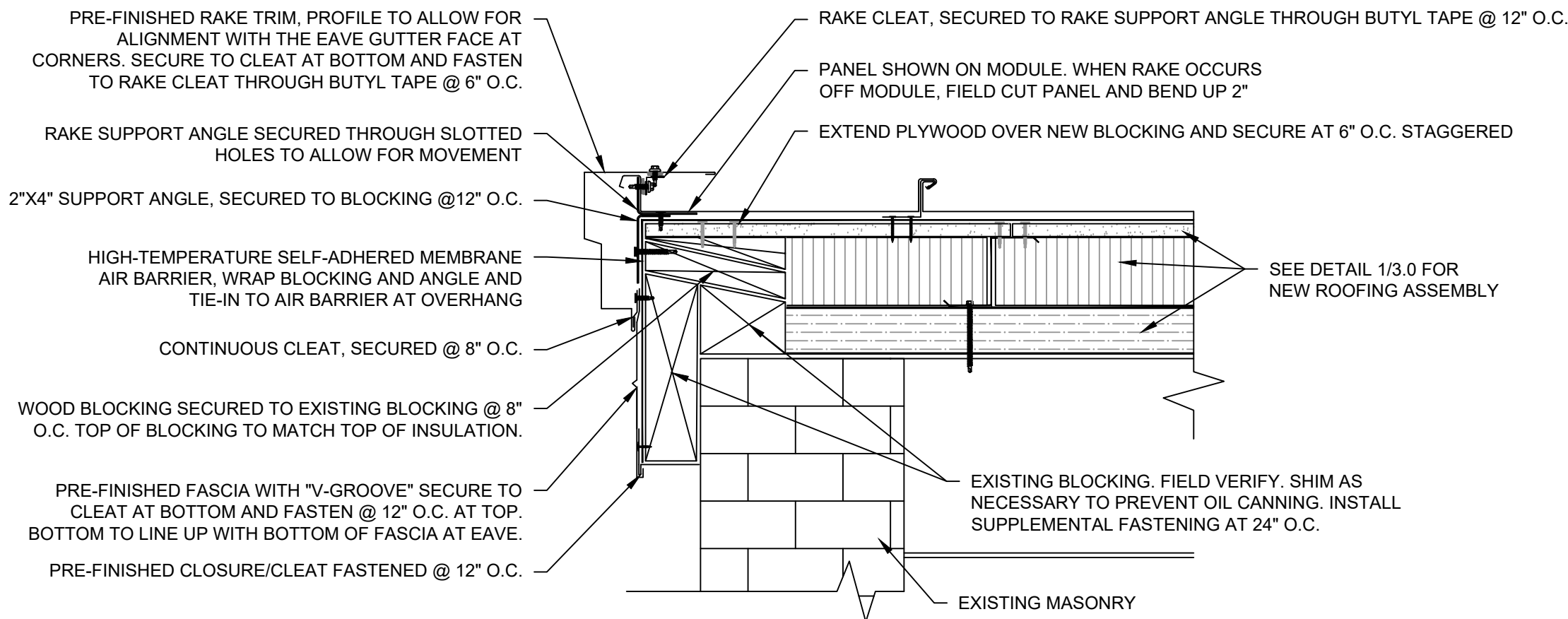
DRAWN BY: HMF  
ENGINEER: HMF  
APPROVAL: KEW  
DATE: MAY 2023  
PROJ.: J2626 SCALE: AS SHOWN  
DWG. NO.

2.3

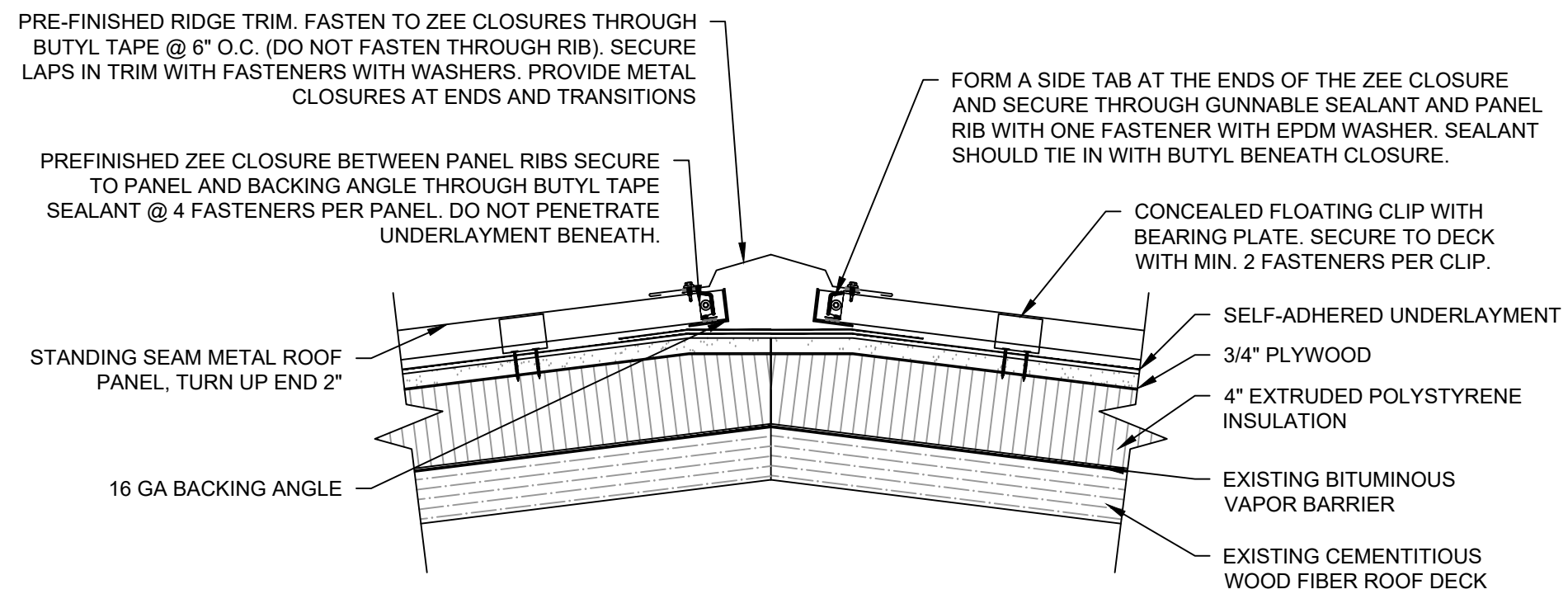




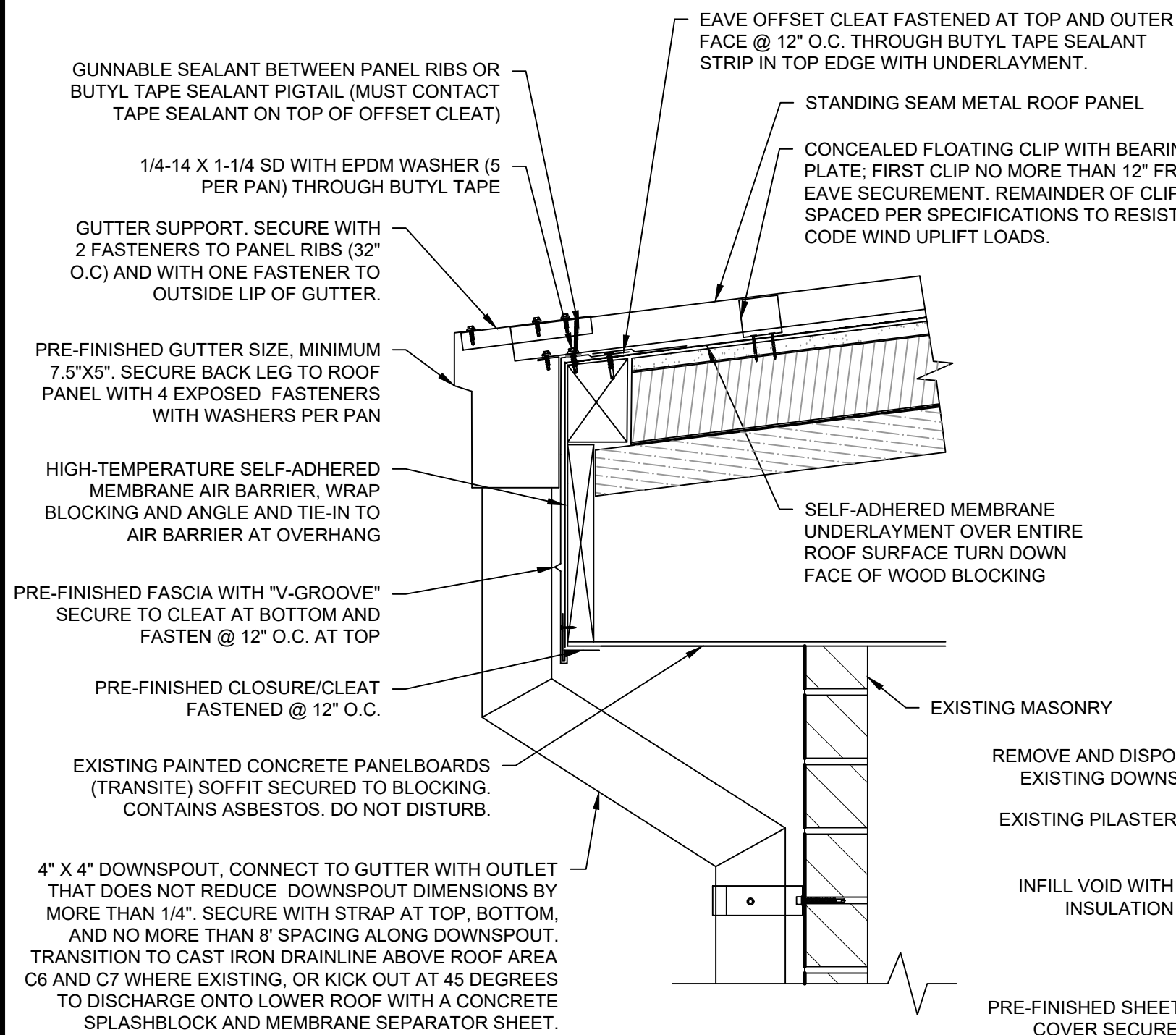
1 TYPICAL ROOF ASSEMBLY - AREA A1  
3.0 SCALE: 1-1/2" = 1'-0"



2 RAKE EDGE  
3.0 SCALE: 1-1/2" = 1'-0"



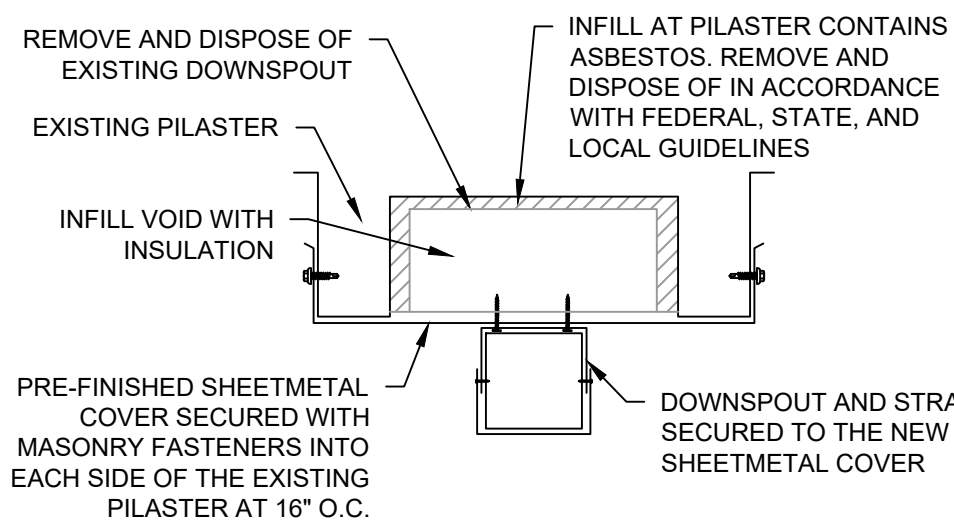
3 RIDGE  
3.0 SCALE: 1-1/2" = 1'-0"



NOTES TO GUTTER AND DOWNSPOUT DETAIL:

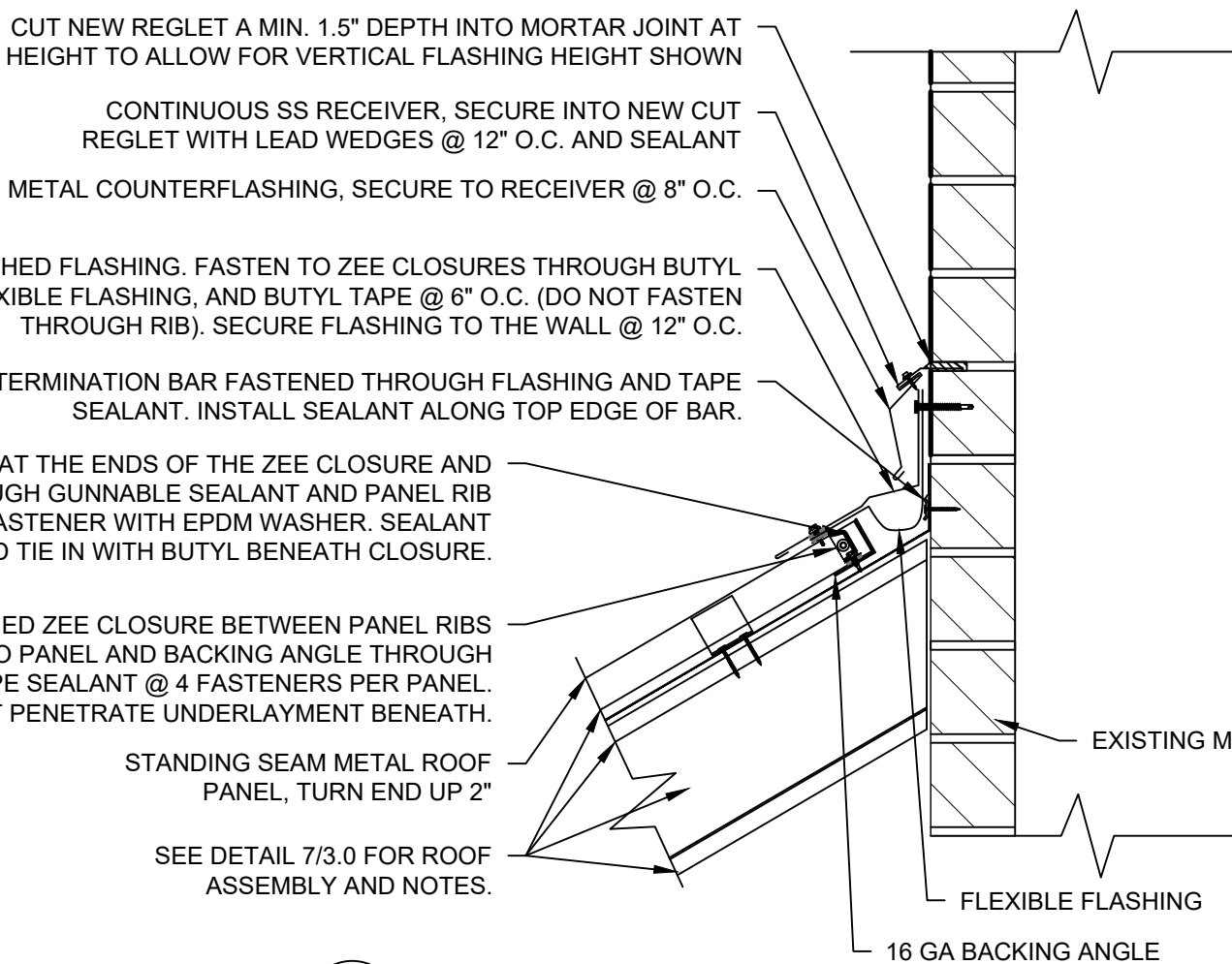
1. REMOVE AND DISPOSE OF THE EXISTING DOWNSPOUTS LOCATED WITHIN THE EXISTING PILASTER.
2. **INFILL MATERIAL SURROUNDING THE EXISTING DOWNSPOUTS CONTAINS ASBESTOS AND MUST BE REMOVED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL GUIDELINES.**
3. INFILL VOID OF PILASTER WITH INSULATION.
4. INSTALL NEW PREFINISHED SHEETMETAL COVER OVER THE FULL FACE OF THE PILASTER, WRAPPING TO THE SIDES, AND SECURE WITH MASONRY FASTENERS AT 12" O.C.
5. INFORM THE DESIGNER OF ANY FIELD CONDITIONS THAT WOULD IMPACT THE INSTALLATION OF THE PILASTER COVERS.
6. AT THE BASE OF THE PILASTER COVER, ENSURE NO BACK-LAP CONDITIONS AT THE TRANSITIONS TO THE ADJACENT NEW ROOF SYSTEMS.
7. INSTALL NEW DOWNSPOUTS WITH STRAPS TO THE PILASTER COVERS WHERE PRESENT, AT SPACING AS CALLED OUT IN DETAIL 4/3.0.

4 GUTTER AND DOWNSPOUT MODIFICATION  
3.0 SCALE: 1-1/2" = 1'-0"

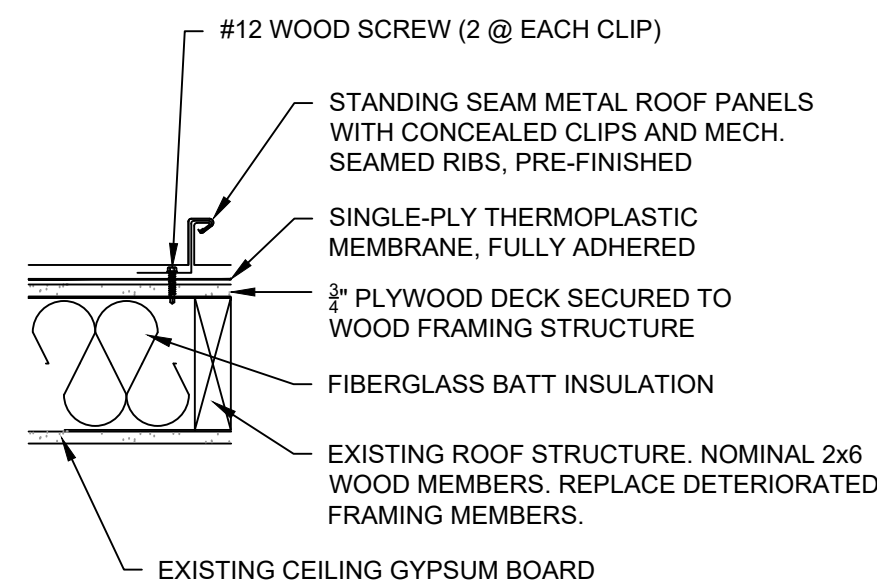


SECTION VIEW OF PILASTER  
SCALE: NOT TO SCALE

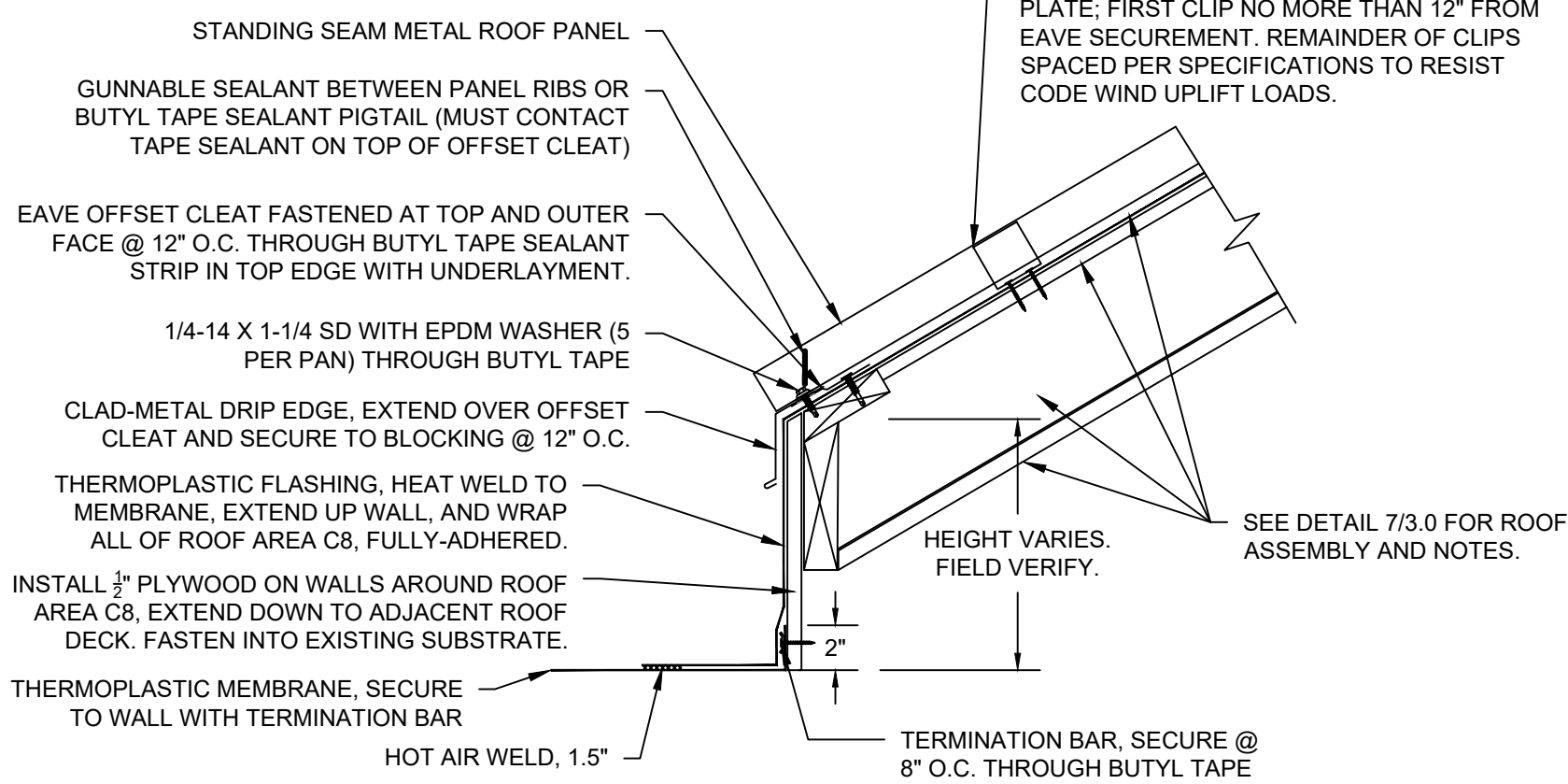
REMOVE EXISTING COUNTERFLASHING WHERE PRESENT AT ROOF TO WALL TRANSITION. FOR SURFACE-MOUNTED COUNTERFLASHING, REPAIR FASTENER HOLES WITH SEALANT. FOR REGLET-MOUNTED COUNTERFLASHING, TRIM THE REGLET FLUSH WITH THE MASONRY SURFACE. REMOVE EXCESS OLD SEALANT FROM MASONRY SURFACES.



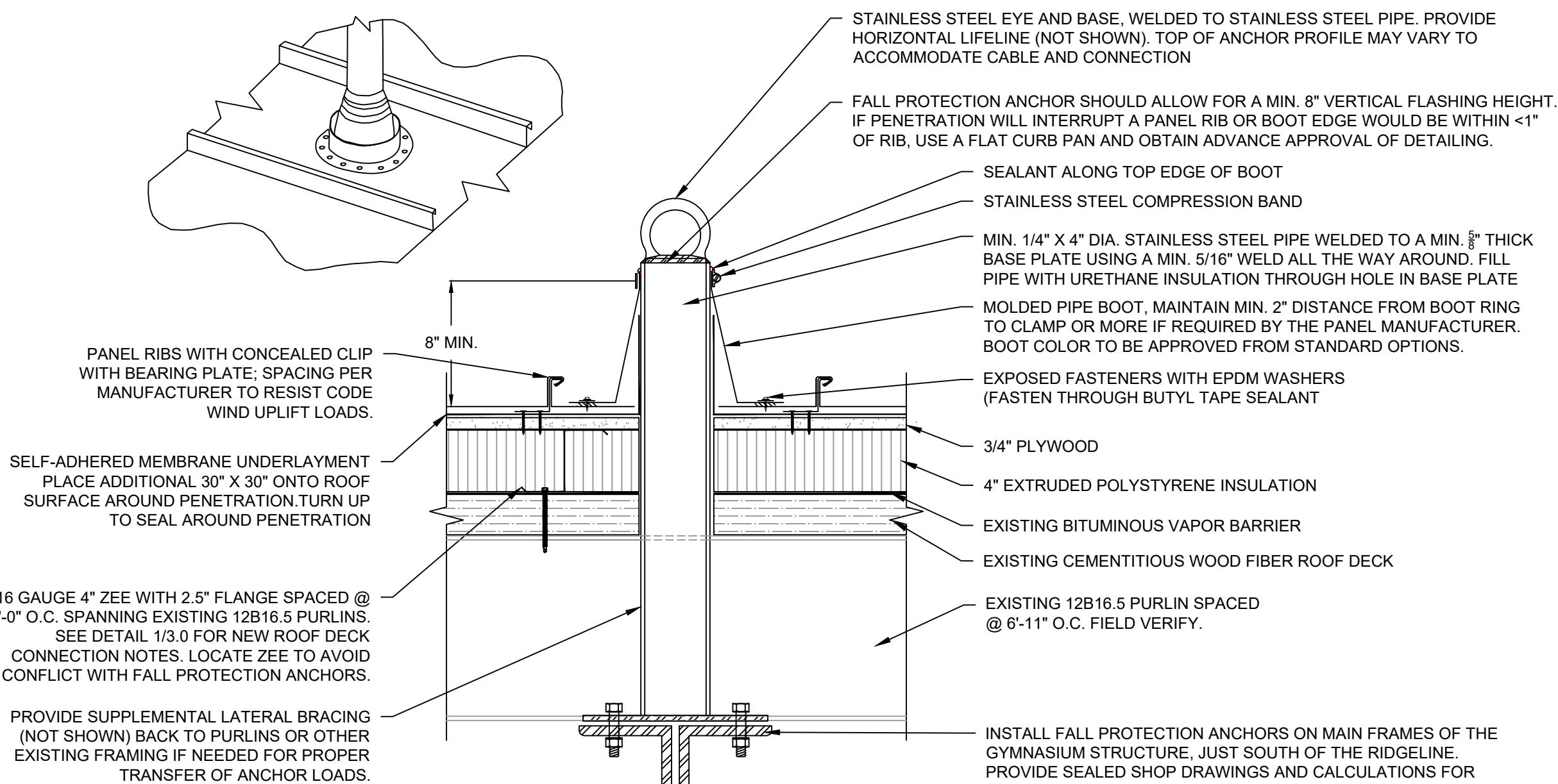
8 ROOF TO WALL  
3.0 SCALE: 1-1/2" = 1'-0"



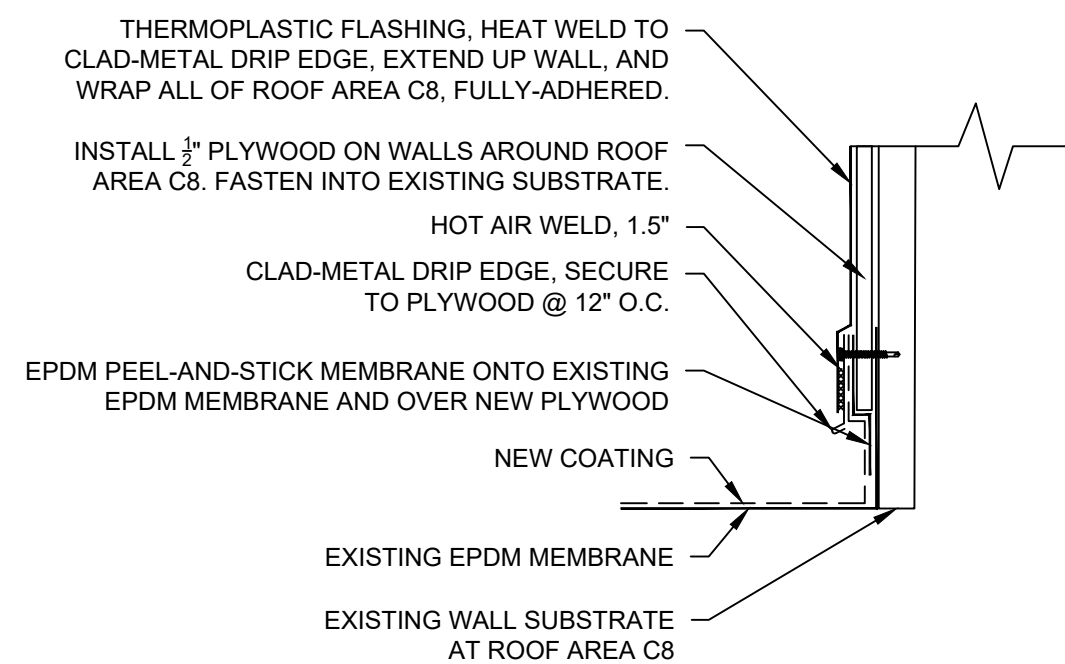
7 TYPICAL ROOF ASSEMBLY - AREA C8  
3.0 SCALE: 1-1/2" = 1'-0"



9 LOW EAVE  
3.0 SCALE: 1-1/2" = 1'-0"



6 FALL PROTECTION ANCHOR  
3.0 SCALE: 1-1/2" = 1'-0"



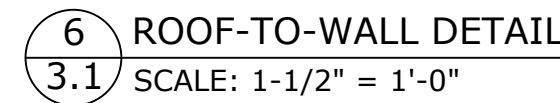
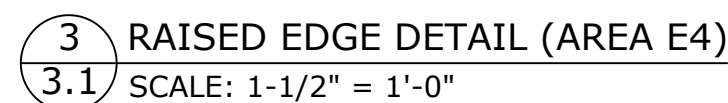
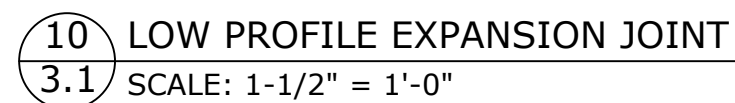
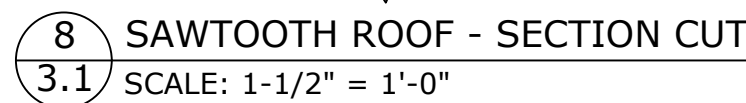
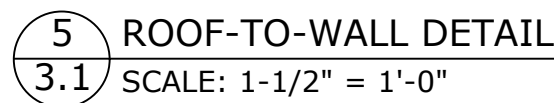
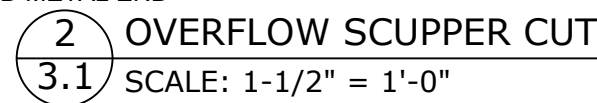
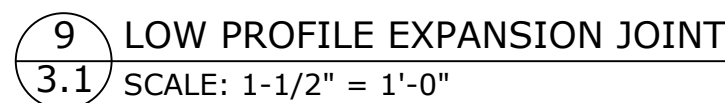
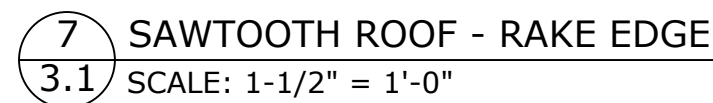
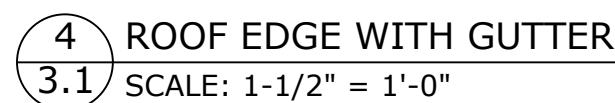
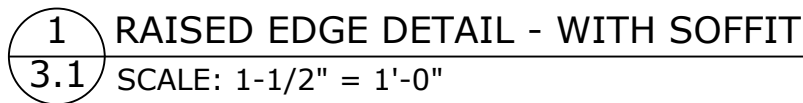
10 TRANSITION AT COATED AREA  
3.0 SCALE: 1-1/2" = 1'-0"

GENERAL NOTES TO DRAWING:

1. THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING DATED MAY 2023. PRIOR TO THE START OF WORK, PERFORM A PRE-JOB DAMAGE SURVEY IN ACCORDANCE WITH THE PROJECT MANUAL.
2. DETAILS ARE PROVIDED FOR DESIGN INTENT. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, ROOF CONSTRUCTIONS, AND OTHER CONDITIONS SHOWN FOR THE PURPOSE OF BIDDING AND CONSTRUCTION. NOTIFY THE DESIGNER PROMPTLY IF DISCOVERED CONDITIONS WILL NOW ALLOW FOR INSTALLATION OF THE DETAILS AS SHOWN. DO NOT MODIFY DETAILS WITHOUT ADVANCE APPROVAL FROM THE DESIGNER.
3. PROVIDE SLOTTED HOLES OR OTHER MINOR MODIFICATIONS TO FASTENING METHODS TO PREVENT OIL CANNING IN VISIBLE FASCIA/EDGE METAL INSTALLATIONS.
4. SYSTEM COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED TO BE EXISTING IN THE DETAIL.

No.	REVISION	By	Date

DRAWN BY: HMF  
ENGINEER: HMF  
APPROVAL: KEW  
DATE: MAY 2023  
PROJ.: J2626 SCALE: AS SHOWN  
DWG. NO.



1. THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING DATED MAY 2023. PRIOR TO THE START OF WORK, PERFORM A PRE-JOB DAMAGE SURVEY IN ACCORDANCE WITH THE PROJECT MANUAL.
2. DETAILS ARE PROVIDED FOR DESIGN INTENT. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, MATERIALS, CONSTRUCTION AND OTHER CONDITIONS SHOWN FOR THE PURPOSE OF BIDDING AND CONSTRUCTION. NOTIFY THE DESIGNER PROMPTLY IF DISCOVERED CONDITIONS WILL NOW ALLOW FOR INSTALLATION OF THE DETAILS AS SHOWN. DO NOT MODIFY DETAILS WITHOUT ADVANCE APPROVAL FROM THE DESIGNER.
3. PROVIDE SLOTTED HOLES OR OTHER MINOR MODIFICATIONS TO FASTENING METHODS TO PREVENT OIL CANTON IN VISIBLE PASSENGER METAL INSTALLATIONS.
4. SYSTEM COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED TO BE EXISTING IN THE DETAIL.

No.	REVISION	By	Date

DRAWN BY: HMF

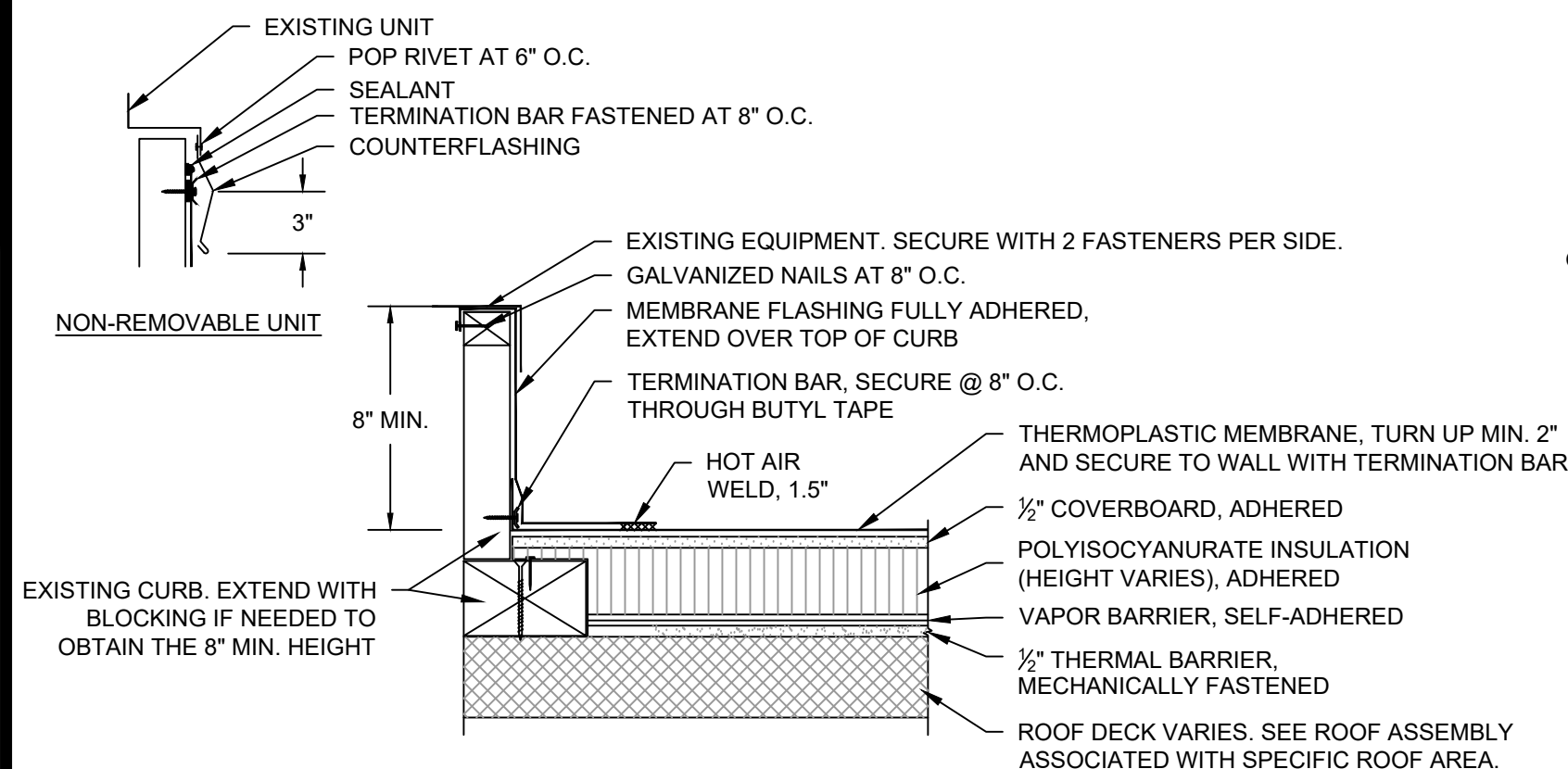
ENGINEER: HMF

APPROVAL: KEW

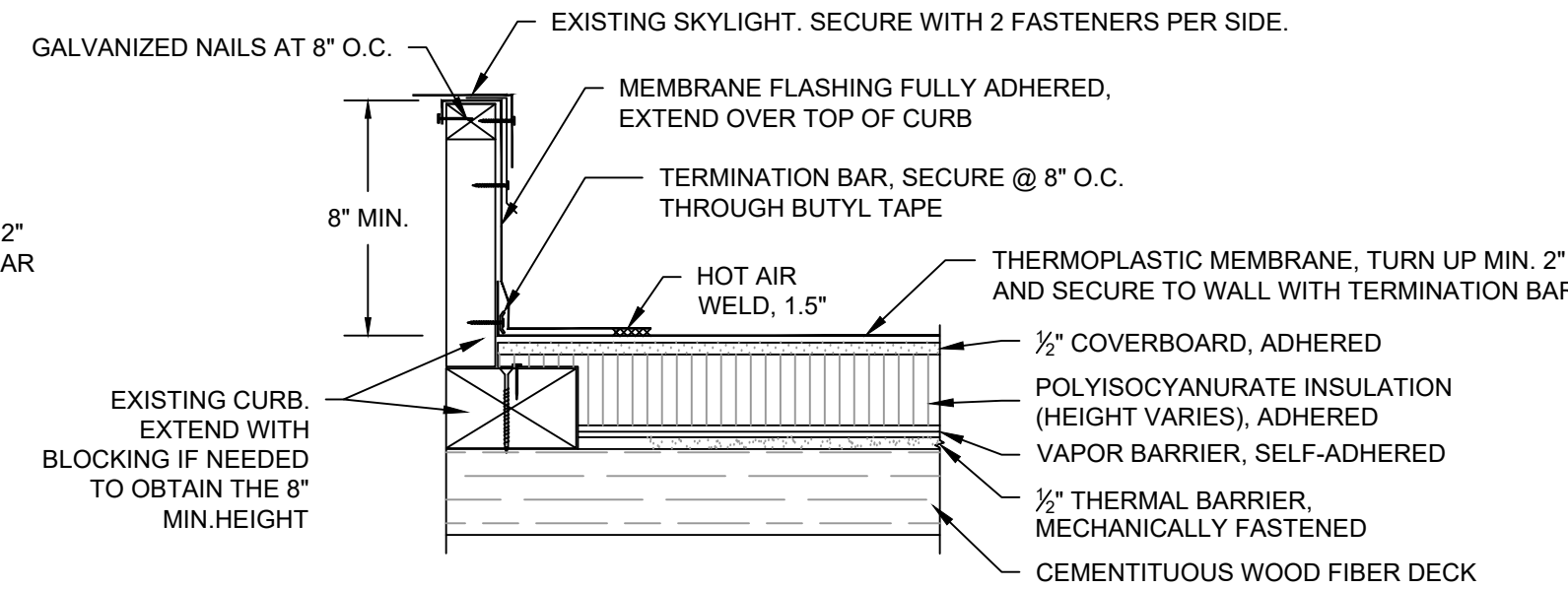
DATE: MAY 202

PROJ.: J2626 SCALE: AS SHOWN

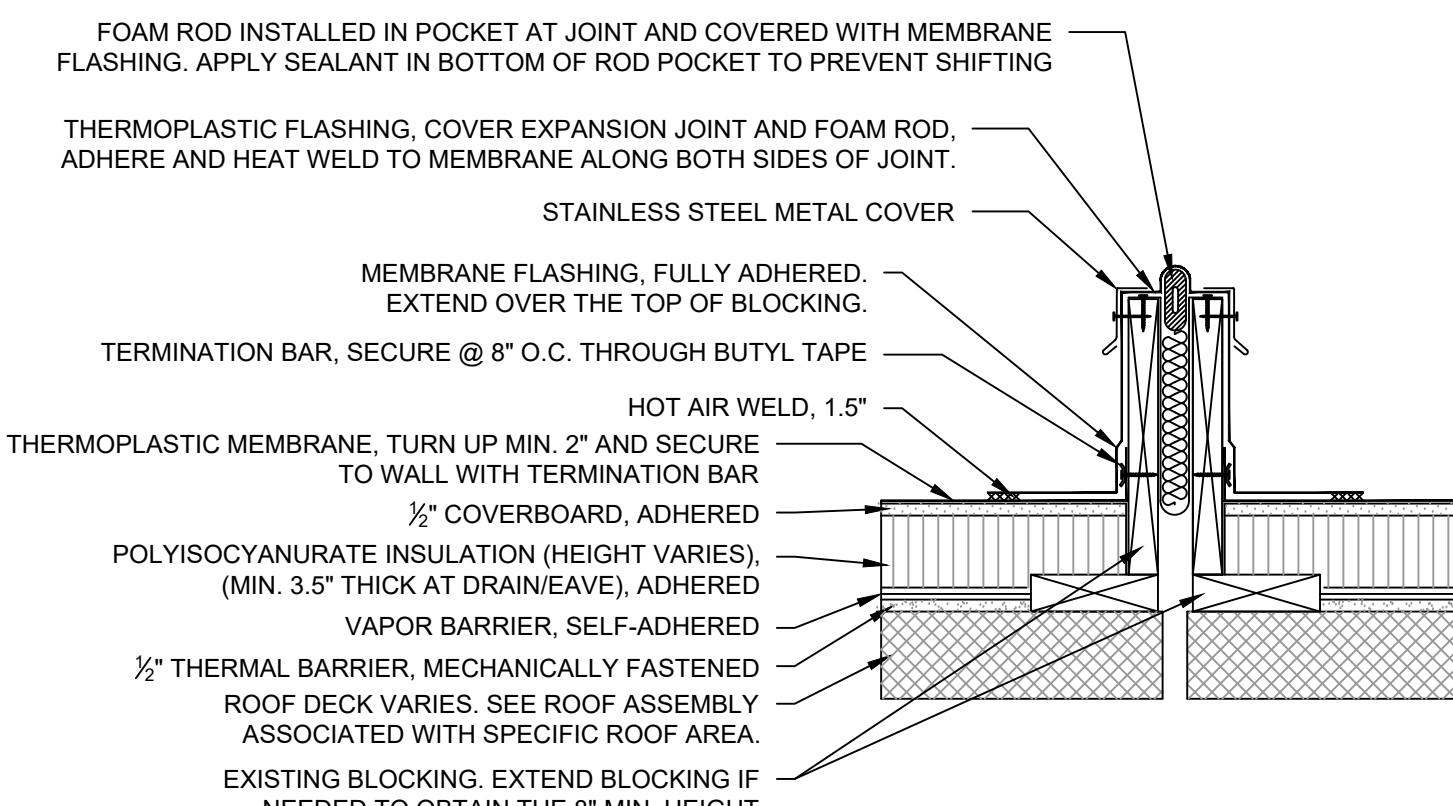
DWG. NO.



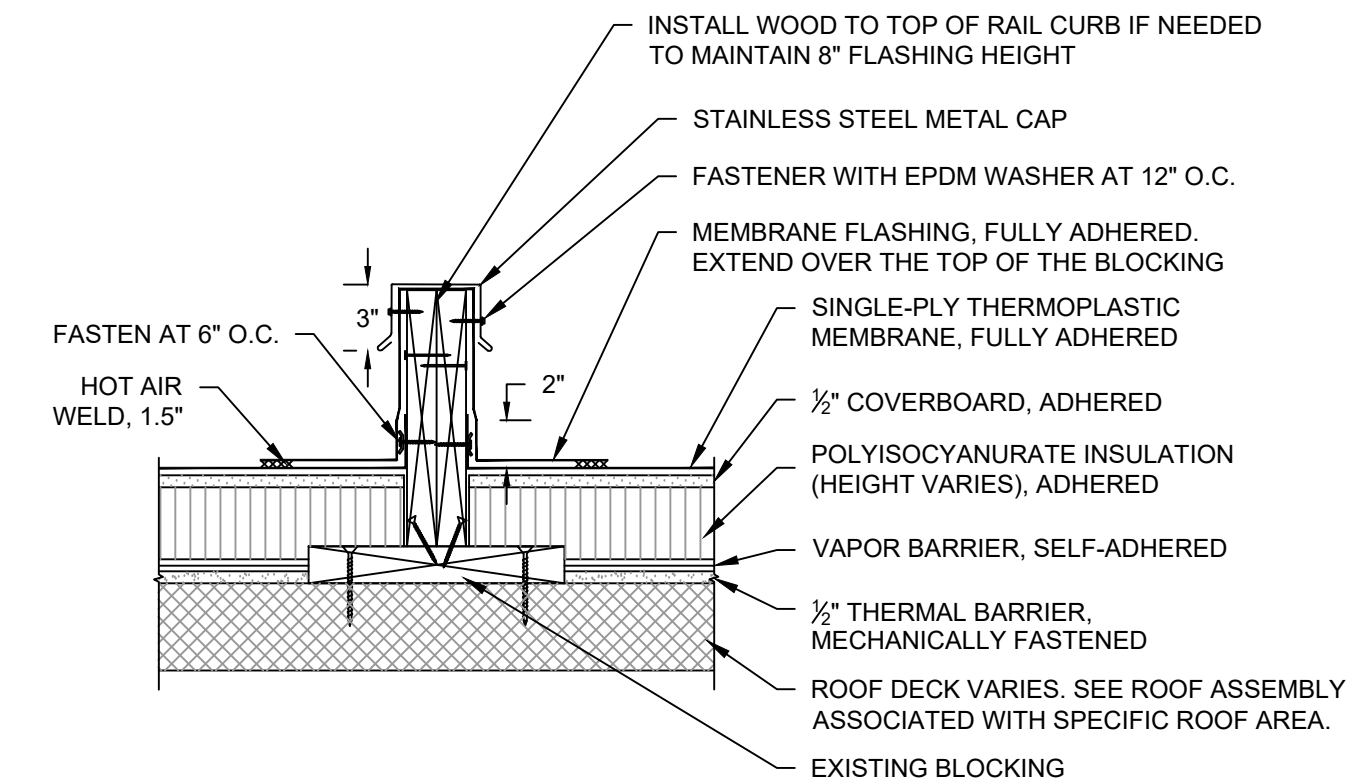
1 MECHANICAL UNIT  
3.2 SCALE: 1-1/2" = 1'-0"



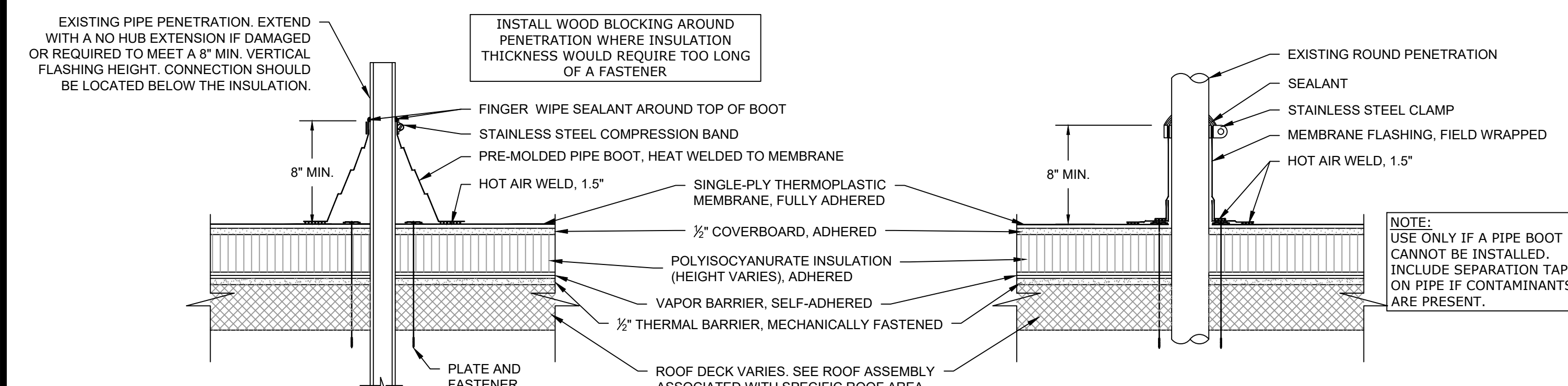
2 SKYLIGHT PENETRATION  
3.2 SCALE: 1-1/2" = 1'-0"



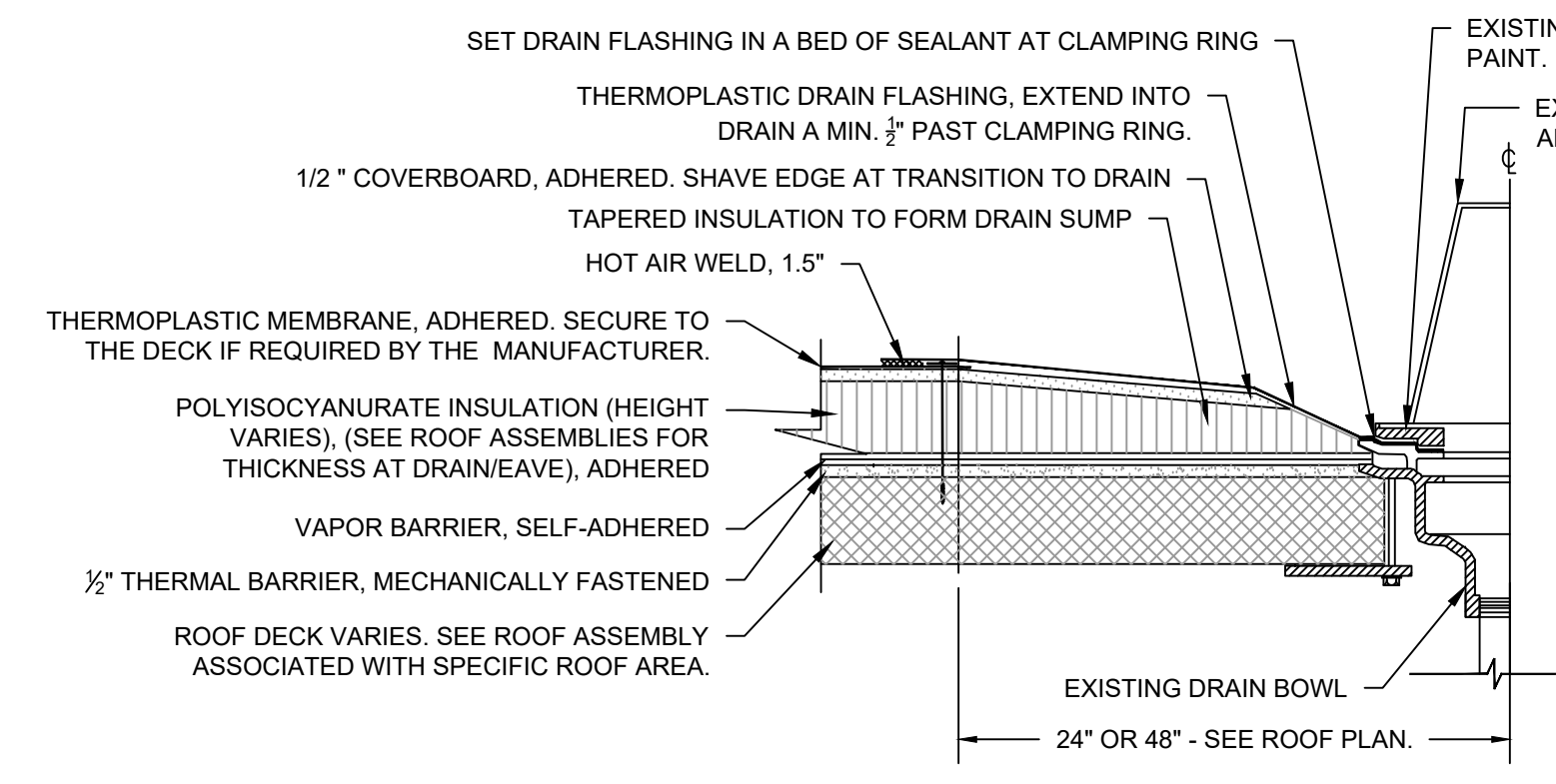
3 AREA DIVIDER WITH EXPANSION JOINT  
3.2 SCALE: 1-1/2" = 1'-0"



4 RAIL CURB  
3.2 SCALE: 1-1/2" = 1'-0"

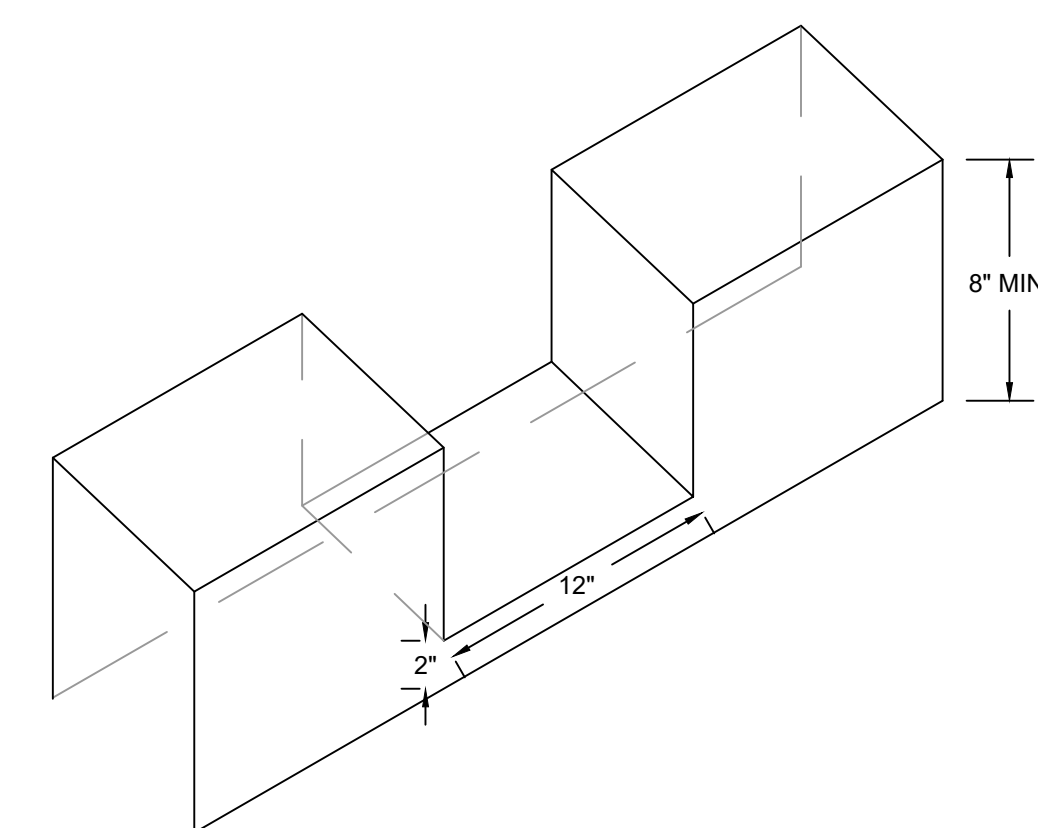


5 PIPE PENETRATION DETAILS  
3.2 SCALE: 1-1/2" = 1'-0"



6 PRIMARY DRAIN  
3.2 SCALE: 1-1/2" = 1'-0"

- NOTES TO DRAIN DETAIL:
- EXISTING DRAIN BOWL, CLAMPING RING AND DRAIN ACCESSORIES TO BE CLEANED FREE OF CONTAMINANTS. PAINT DRAIN STRAINER AND CLAMPING RING TO MATCH.
  - TEST DRAINS PRIOR TO INSTALLATION OF NEW ROOF SYSTEM.
  - OPENING IN DRAIN FLASHING MUST EXCEED SIZE OF DRAIN PIPE. LOCATE FIELD SPLICES AT LEAST 12 INCHES OUTSIDE DRAIN TARGET FLASHING.
  - LAP ORIENTATION BETWEEN FIELD SHEET AND DRAIN FLASHING SHALL BE AS REQUIRED BY THE MEMBRANE MANUFACTURER. USE SPECIFIC DRAIN FLASHING SHEET MATERIAL REQUIRED BY THE MEMBRANE SYSTEM MANUFACTURER TO PREVENT STRETCHING.
  - THE EXACT HEIGHT OF THE DRAIN BOWL OFF THE DECK MUST BE FIELD VERIFIED. MINOR CHANGES TO THE SUMP INSULATION MAY BE REQUIRED TO ACCOMMODATE EXISTING CONDITIONS, INCLUDING INCREASING THE SIZE OF THE SUMP.
  - REPLACE CLAMPING RING BOLTS WITH NEW STAINLESS STEEL BOLTS WHERE APPLICABLE. REPLACE MISSING OR DAMAGED SERGEANT CLAMPS WHERE APPLICABLE.
  - THE DRAINS AT THE BASES OF THE CLERESTORIES MAY DIFFER FROM THE STANDARD DRAIN DETAIL SHOWN DUE TO VARIATION IN THE EXISTING CONDITIONS. REVIEW FIELD CONDITIONS WITH THE DESIGNER PRIOR TO PERFORMING WORK.



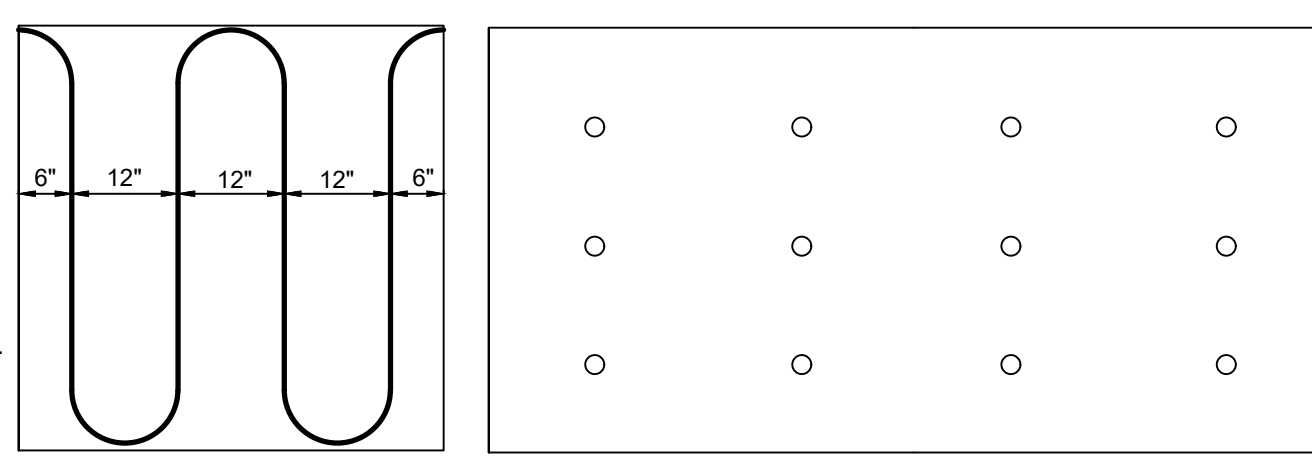
- NOTES:
- BUILD NEW AREA DIVIDER WALLS WITH EITHER WOOD FRAMING OR COLD-FORMED STEEL FRAMING SECURED TO THE EXISTING CEMENTITIOUS WOOD FIBER ROOF DECK.
  - FIELD VERIFY EXISTING CONDITIONS.
  - EXACT LOCATION OF THE AREA DIVIDER WALLS TO BE COORDINATED WITH THE DESIGNER.
  - PROVIDE SHEATHING FOR THE WALLS AND TOP OF THE AREA DIVIDERS.
  - LOCATE SCUPPER OPENING WITHIN THE NEW AREA DIVIDER.
  - FRAME THE WALL AS NEEDED TO LOCATE BOTTOM OF SCUPPER 2" ABOVE ADJACENT MEMBRANE.
  - OVERFLOW SCUPPERS SHALL BE 12" WIDE UNLESS OTHERWISE AGREED UPON.
  - CUT EXISTING EPDM MEMBRANE WITH EXCESS TO ALLOW FOR TERMINATION OF THE MEMBRANE ONTO THE AREA DIVIDER FROM AREA C9.
  - PROVIDE PEEL-AND-STICK EPDM MEMBRANE TO THE EXISTING EPDM MEMBRANE TO THE TOP OF THE AREA DIVIDER.
  - INSTALL CLAD METAL ANGLE AT TOP OF AREA DIVIDER OVER EPDM MEMBRANE.
  - WRAP THE AREA DIVIDER WITH THE NEW SINGLE-PLY MEMBRANE AND HEAT WELD TO THE CLAD METAL.
  - STRIP IN THE CLAD METAL ON THE AREA C9 SIDE WITH THE NEW COATING.

- NOTES FOR NEW OVERFLOW DRAIN (KEYED NOTE 2):
- INSTALL (1) NEW 6" OVERFLOW DRAIN ON ROOF AREA C3. EXACT LOCATION TO BE COORDINATED WITH THE DESIGNER.
  - CORE THROUGH METAL DECK TO ALLOW FOR INSTALLATION OF NEW DRAIN LINE. SUPPORT 6" I.D. SCHEDULE 40 DRAIN LINE ON WOOD BLOCKING WITH FLANGE. PACK SPACE AROUND PIPE WITH MINERAL WOOL AND FIRESTOP SEALANT (TO INSIDE) (INSULATION AND SEALANT NOT SHOWN).
  - INSTALL NEW 6" I.D. DRAIN LEADER. PROVIDE HANGERS AS NEEDED FOR PROPER SUPPORT.
  - PROVIDE INSULATION AROUND DRAIN LINE (NOT SHOWN FOR CLARITY).
  - TIE NEW 6" DRAIN LINE INTO EXISTING OVERFLOW DRAIN LINE ABOVE THE SUSPENDED CEILING WITHIN THE CORRIDOR BETWEEN THE REID BUILDING AND CAMPUS RECREATION CENTER.

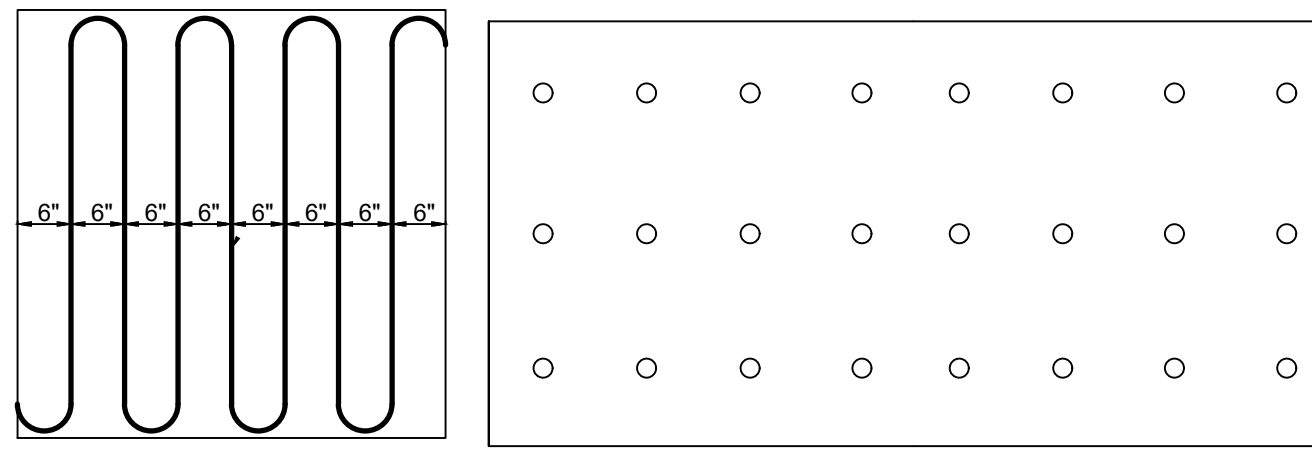
- NOTES TO DRAIN DETAIL:
- EXISTING DRAIN BOWL, CLAMPING RING AND DRAIN ACCESSORIES TO BE CLEANED FREE OF CONTAMINANTS. PAINT DRAIN STRAINER AND CLAMPING RING TO MATCH.
  - TEST DRAINS PRIOR TO INSTALLATION OF NEW ROOF SYSTEM.
  - OPENING IN DRAIN FLASHING MUST EXCEED SIZE OF DRAIN PIPE. LOCATE FIELD SPLICES AT LEAST 12 INCHES OUTSIDE DRAIN TARGET FLASHING.
  - LAP ORIENTATION BETWEEN FIELD SHEET AND DRAIN FLASHING SHALL BE AS REQUIRED BY THE MEMBRANE MANUFACTURER. USE SPECIFIC DRAIN FLASHING SHEET MATERIAL REQUIRED BY THE MEMBRANE SYSTEM MANUFACTURER TO PREVENT STRETCHING.
  - THE EXACT HEIGHT OF THE DRAIN BOWL OFF THE DECK MUST BE FIELD VERIFIED. MINOR CHANGES TO THE SUMP INSULATION MAY BE REQUIRED TO ACCOMMODATE EXISTING CONDITIONS, INCLUDING INCREASING THE SIZE OF THE SUMP.
  - REPLACE CLAMPING RING BOLTS WITH NEW STAINLESS STEEL BOLTS.

7 OVERFLOW DRAIN  
3.2 SCALE: 1-1/2" = 1'-0"

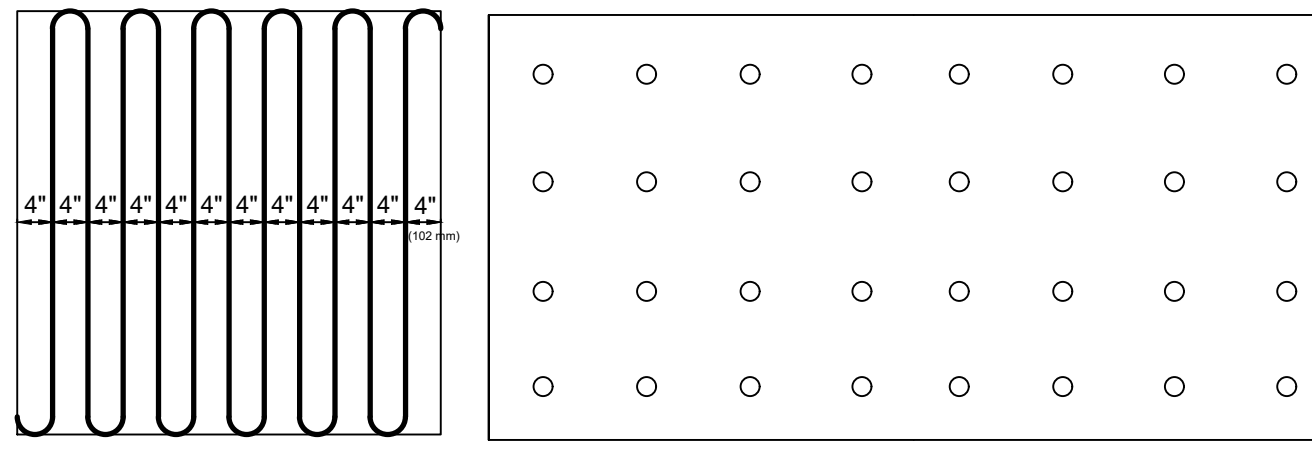
- FIELD
- MAXIMUM 4'x4' BOARD SIZE
  - ADHESIVE BEADS @ 12" O.C.



- PERIMETER ENHANCEMENT
- MAXIMUM 4'x4' BOARD SIZE
  - ADHESIVE BEADS @ 8" O.C.



- CORNER ENHANCEMENT
- MAXIMUM 4'x4' BOARD SIZE
  - ADHESIVE BEADS @ 8" O.C.



8 INSULATION ADHESIVE PATTERNS  
3.2 SCALE: NOT TO SCALE

9 THERMAL BARRIER FASTENING PATTERNS  
3.2 SCALE: NOT TO SCALE

GENERAL NOTES TO DRAWING:

- THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING DATED MAY 2023. PRIOR TO THE START OF WORK, PERFORM A PRE-JOB DAMAGE SURVEY IN ACCORDANCE WITH THE PROJECT MANUAL.
- DETAILS ARE PROVIDED FOR DESIGN INTENT. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, ROOF CONSTRUCTIONS, AND OTHER CONDITIONS SHOWN FOR THE PURPOSE OF BIDDING AND CONSTRUCTION. NOTIFY THE DESIGNER PROMPTLY IF DISCOVERED CONDITIONS WILL NOW ALLOW FOR INSTALLATION OF THE DETAILS AS SHOWN. DO NOT MODIFY DETAILS WITHOUT ADVANCE APPROVAL FROM THE DESIGNER.
- PROVIDE SLOTTED HOLES OR OTHER MINOR MODIFICATIONS TO FASTENING METHODS TO PREVENT OIL CANNING IN VISIBLE FASCIA/EDGE METAL INSTALLATIONS.
- SYSTEM COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED TO BE EXISTING IN THE DETAIL.



CONSTRUCTION DETAILS

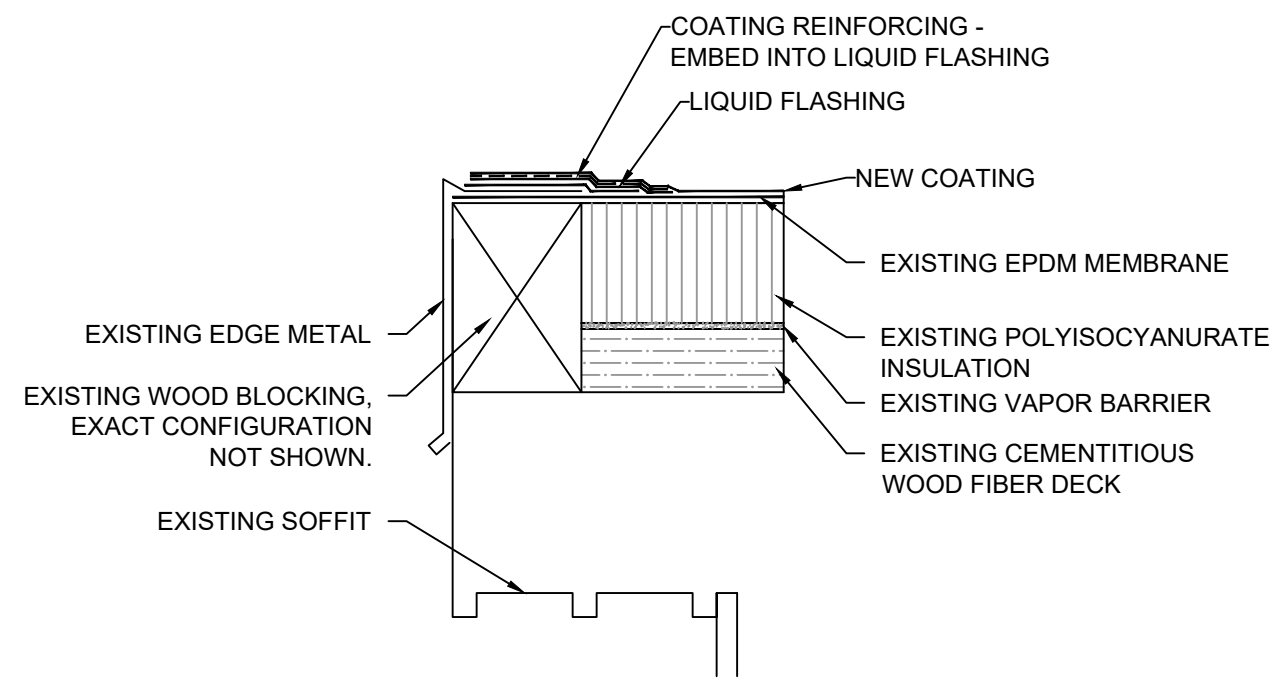
REID BUILDING - ROOF REPLACEMENT  
WESTERN CAROLINA UNIVERSITY, CULLOWHEE, NC  
SCO ID#: 22-24547-01A

No.	REVISION	By	Date

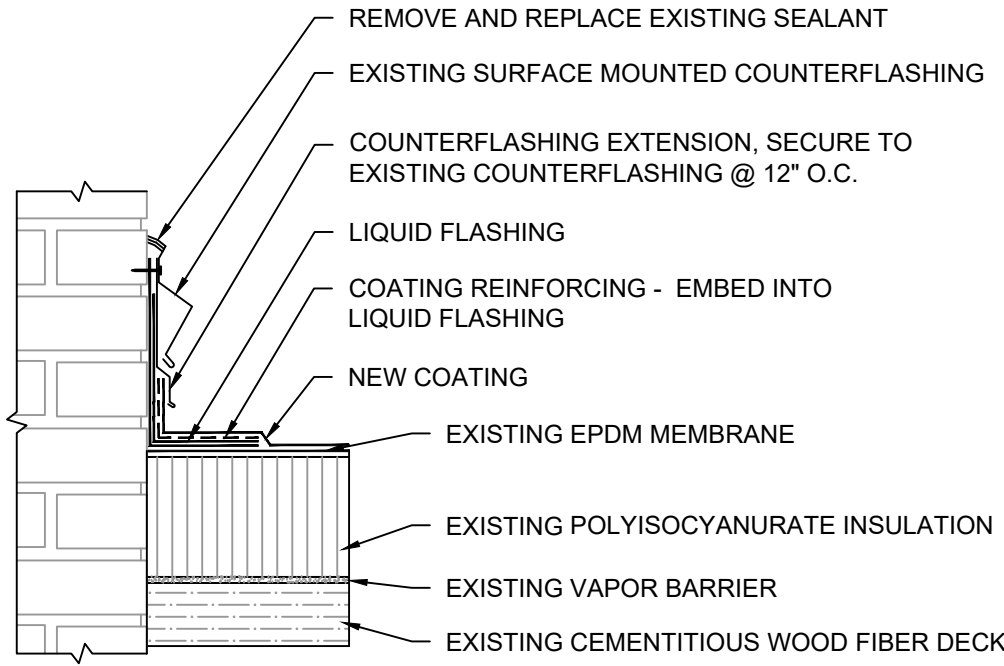
DRAWN BY:	HMF
ENGINEER:	HMF
APPROVAL:	KEW
DATE:	MAY 2023
PROJ.:	J2626
SCALE:	AS SHOWN
DWG. NO.	

3.2

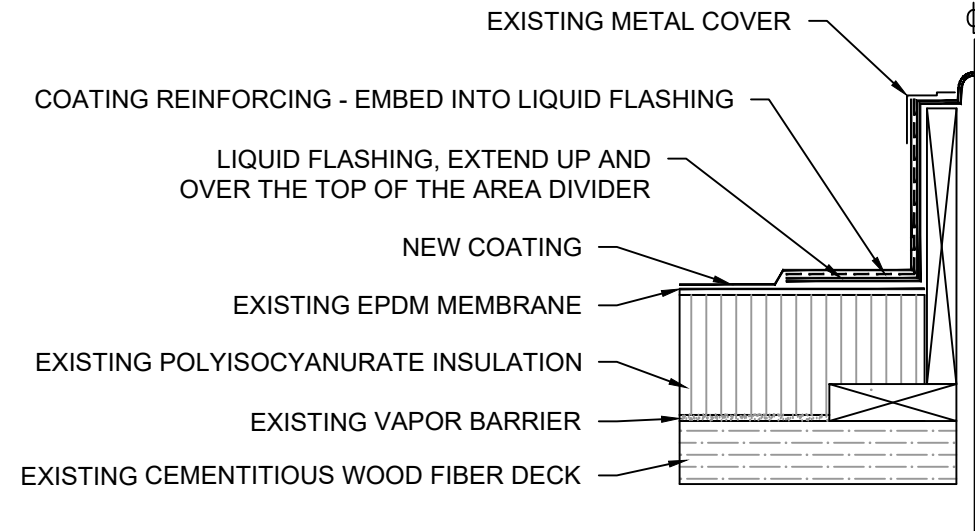
NOTE FOR ALL COATING DETAILS: EXISTING ROOF COMPOSITIONS MAY VARY. REFER TO ROOF PLAN FOR EXISTING COMPOSITION.



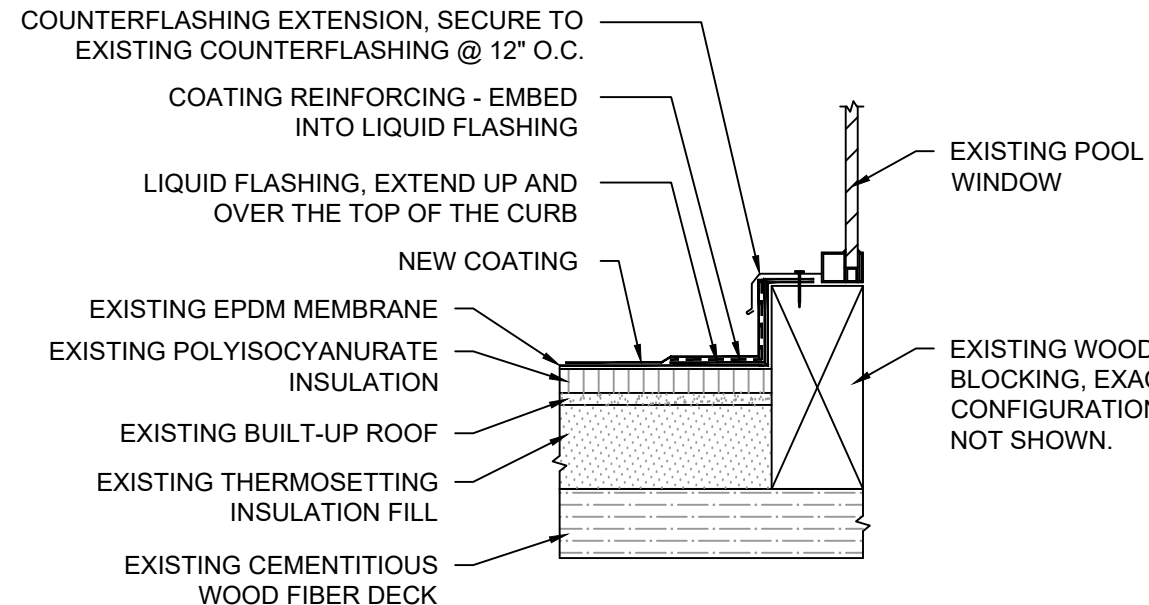
1 RAISED EDGE DETAIL WITH SOFFIT (COATING)  
3.3 SCALE: 1-1/2" = 1'-0"



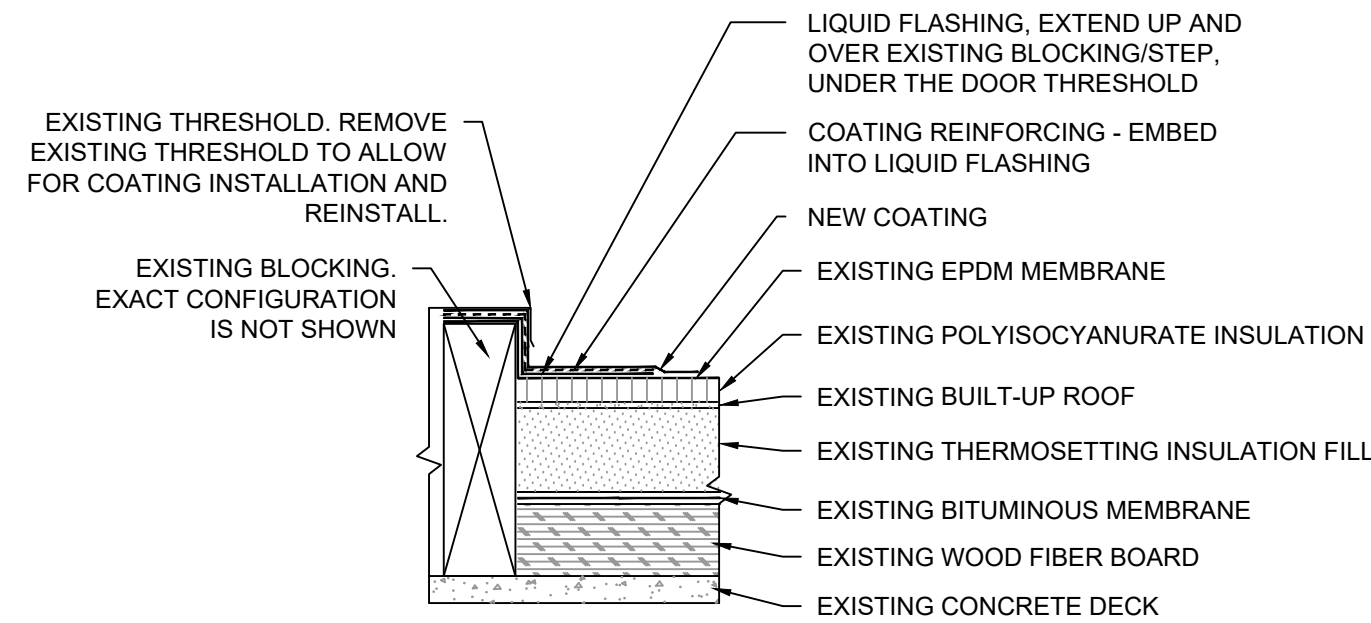
2 ROOF-TO-WALL DETAIL (COATING)  
3.3 SCALE: 1-1/2" = 1'-0"



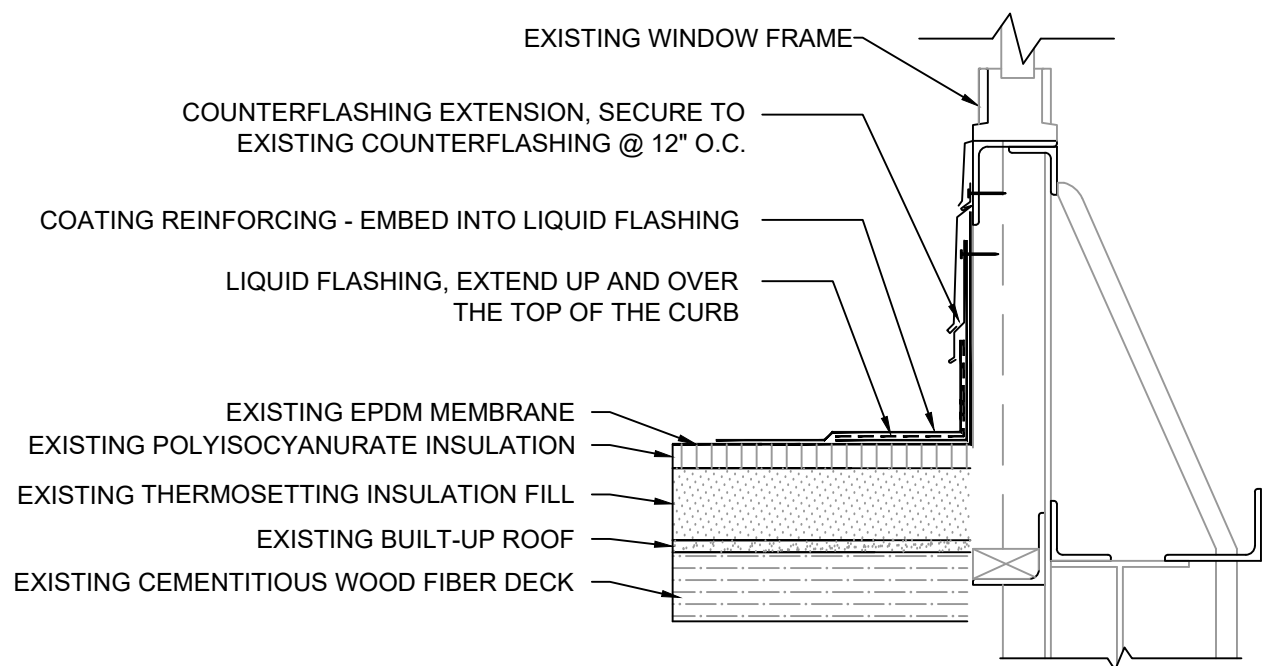
3 AREA DIVIDER DETAIL (COATING)  
3.3 SCALE: 1-1/2" = 1'-0"



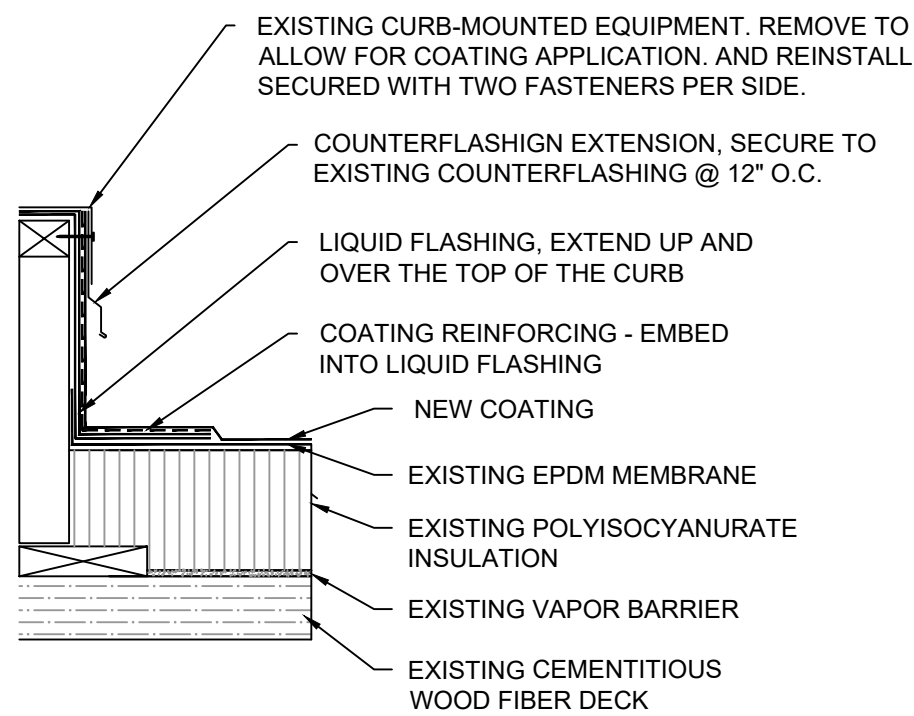
4 POOL WINDOW DETAIL (COATING)  
3.3 SCALE: 1-1/2" = 1'-0"



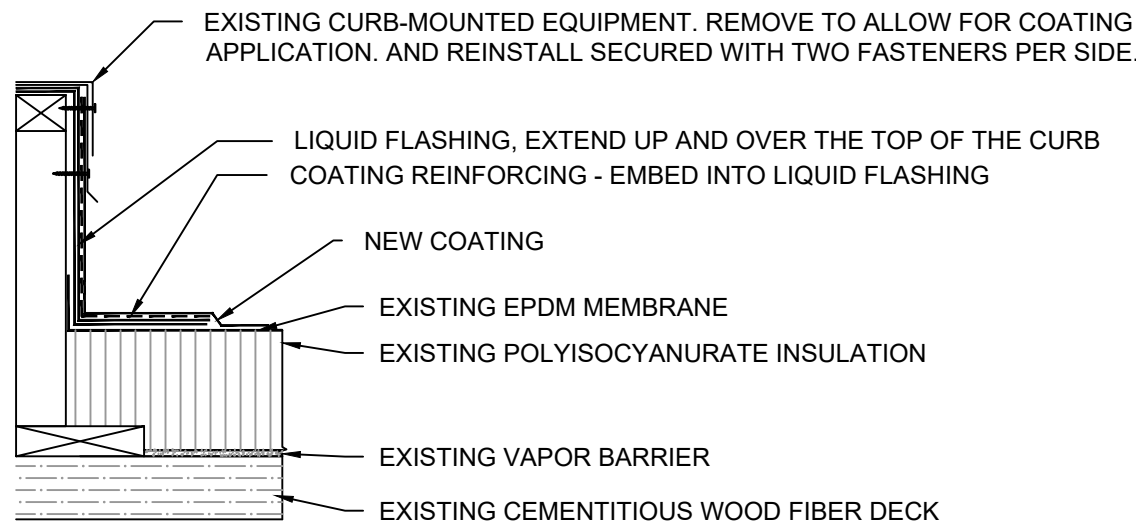
5 ROOF-TO-DOORSTEP (COATING)  
3.3 SCALE: 1-1/2" = 1'-0"



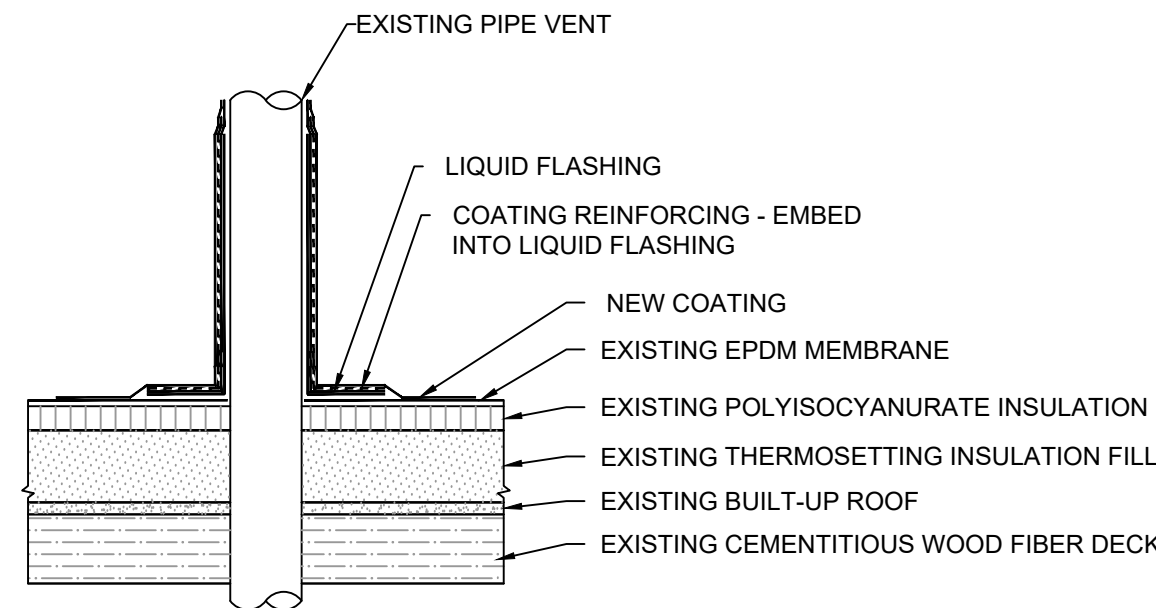
6 SAWTOOTH ROOF TRANSITION (COATING)  
3.3 SCALE: 1-1/2" = 1'-0"



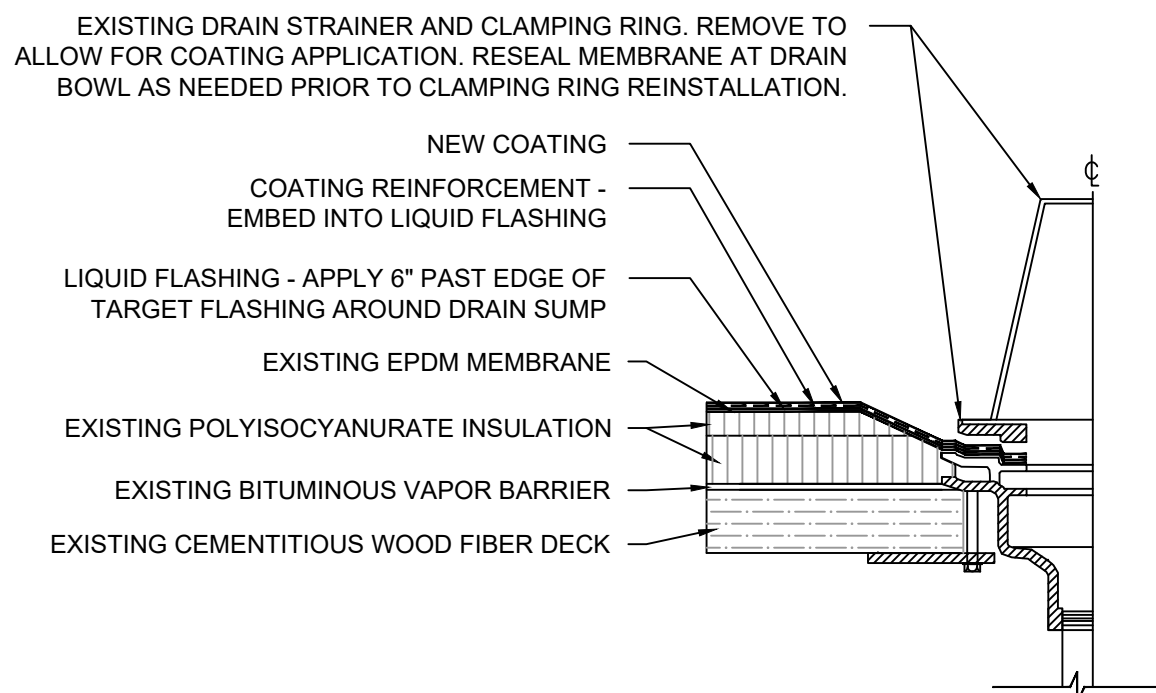
7 CURB DETAIL (COATING)  
3.3 SCALE: 1-1/2" = 1'-0"



8 SKYLIGHT DETAIL (COATING)  
3.3 SCALE: 1-1/2" = 1'-0"



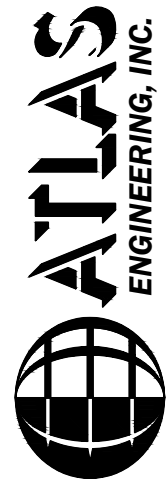
9 PIPE PENETRATION (COATING)  
3.3 SCALE: 1-1/2" = 1'-0"



10 PRIMARY DRAIN DETAIL (COATING)  
3.3 SCALE: 1-1/2" = 1'-0"

GENERAL NOTES TO DRAWING:

- THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING DATED MAY 2023. PRIOR TO THE START OF WORK, PERFORM A PRE-JOB DAMAGE SURVEY IN ACCORDANCE WITH THE PROJECT MANUAL.
- DETAILS ARE PROVIDED FOR DESIGN INTENT. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, ROOF CONSTRUCTIONS, AND OTHER CONDITIONS SHOWN FOR THE PURPOSE OF BIDDING AND CONSTRUCTION. NOTIFY THE DESIGNER PROMPTLY IF DISCOVERED CONDITIONS WILL NOW ALLOW FOR INSTALLATION OF THE DETAILS AS SHOWN. DO NOT MODIFY DETAILS WITHOUT ADVANCE APPROVAL FROM THE DESIGNER.
- PROVIDE SLOTTED HOLES OR OTHER MINOR MODIFICATIONS TO FASTENING METHODS TO PREVENT OIL CANNING IN VISIBLE FASCIA/EDGE METAL INSTALLATIONS.
- SYSTEM COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED TO BE EXISTING IN THE DETAIL.



551A Pylon Drive  
Raleigh, North Carolina 27606  
(919) 420-7676  
LIC. # C-1349



CONSTRUCTION DETAILS - COATING

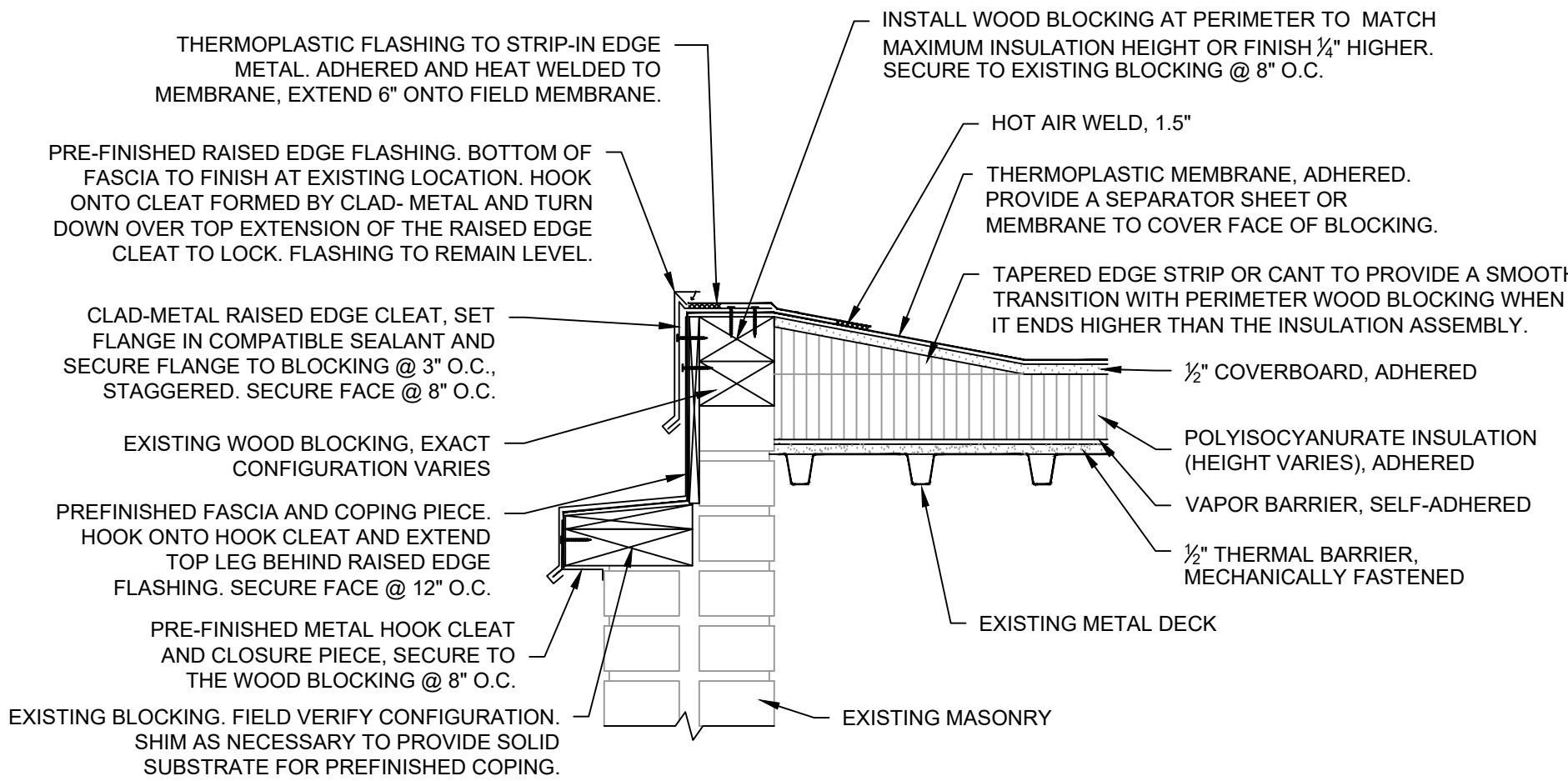
REID BUILDING - ROOF REPLACEMENT  
WESTERN CAROLINA UNIVERSITY, CULLOWHEE, NC  
SCO ID #: 22-24547-01A

No.	REVISION	By	Date

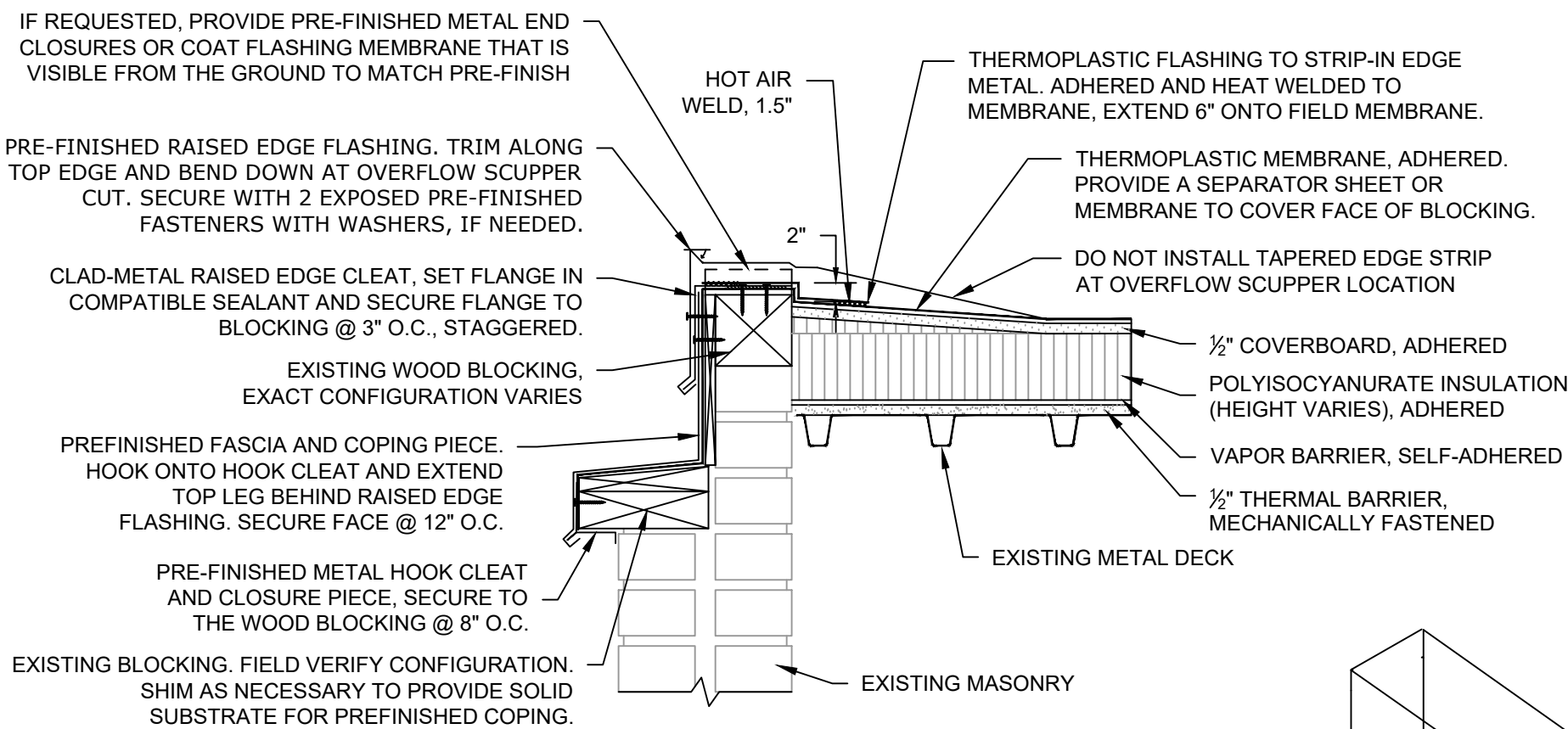
DRAWN BY:	HMF
ENGINEER:	HMF
APPROVAL:	KEW
DATE:	MAY 2023
PROJ.:	J2626
SCALE:	AS SHOWN
DWG. NO.	

3.3

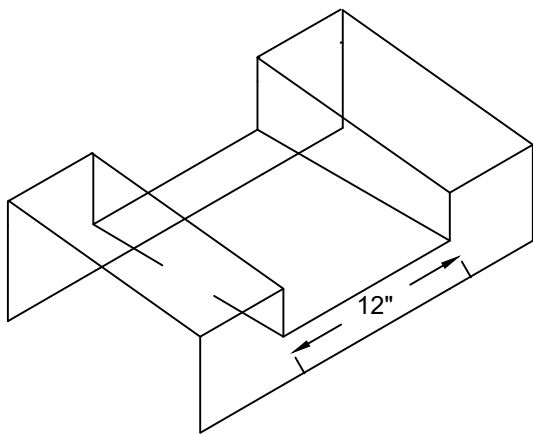
BID DOCUMENTS



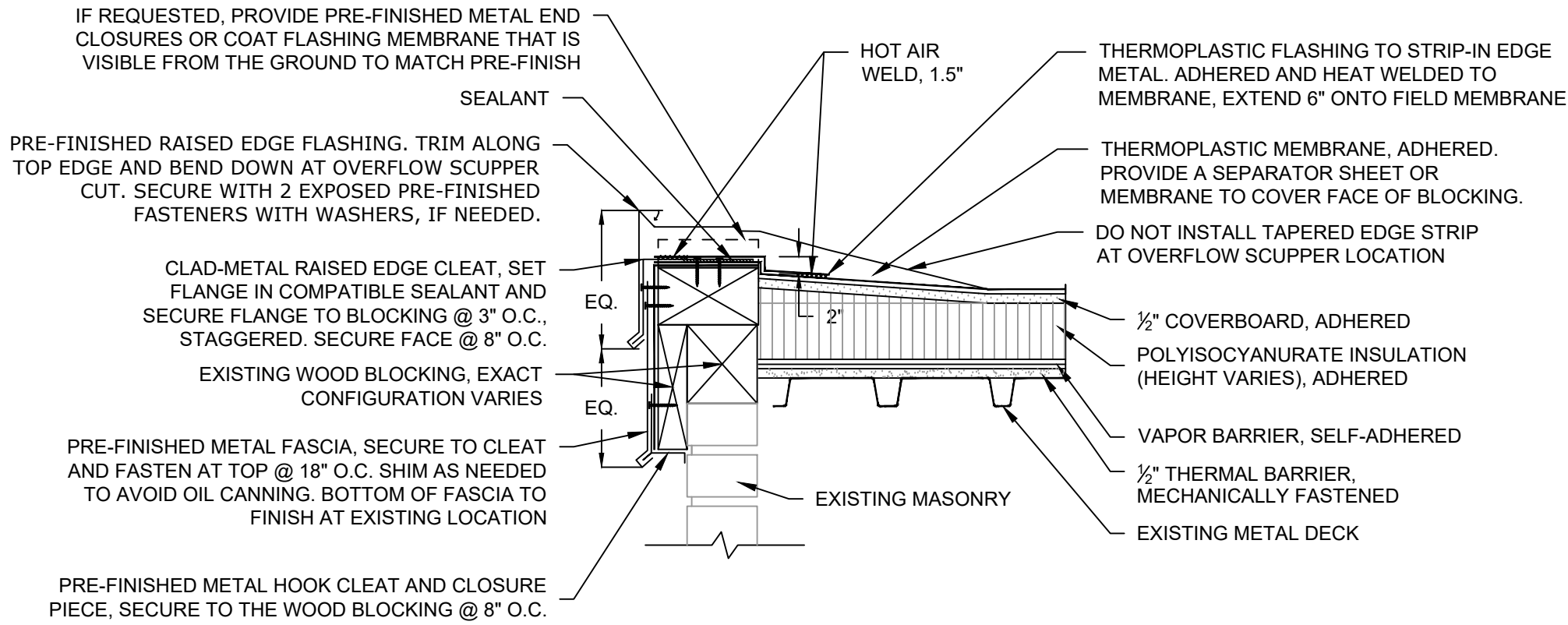
1 RAISED EDGE DETAIL (AREA E1)  
3.4 SCALE: 1-1/2" = 1'-0"



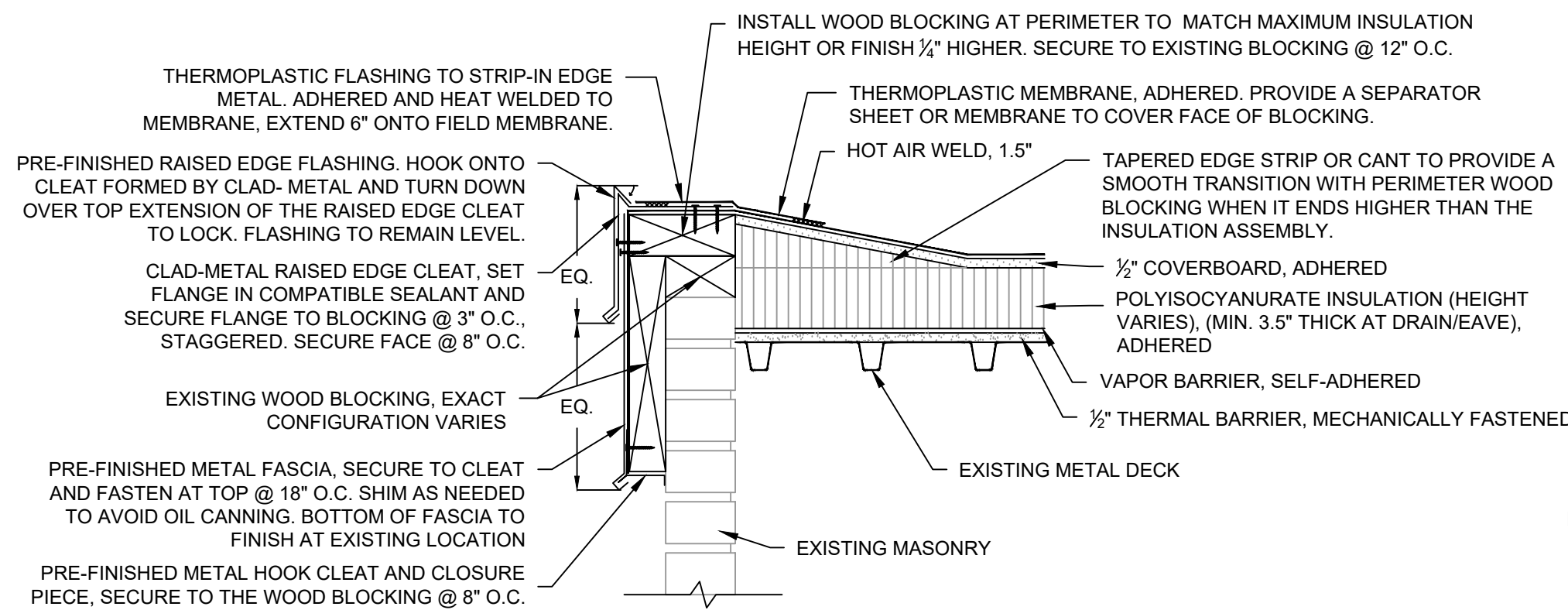
2 RAISED EDGE SCUPPER (AREA E1)  
3.4 SCALE: 1-1/2" = 1'-0"



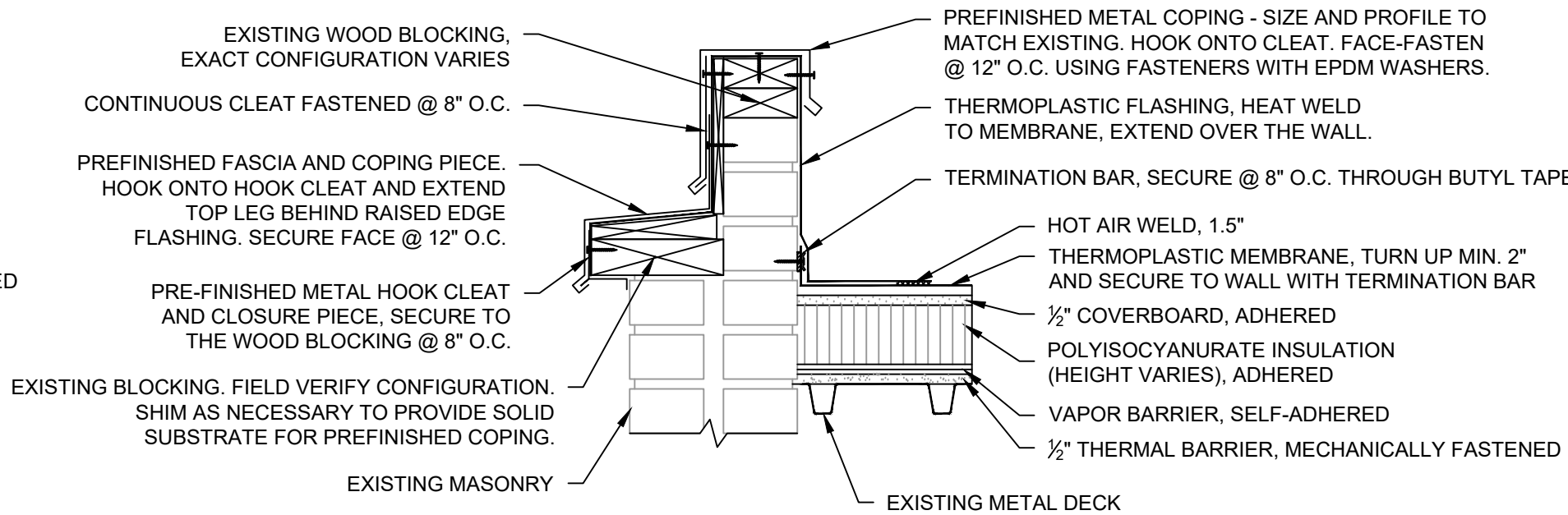
- NOTES:
- CUT OVERFLOW SCUPPER AT LOCATION SHOWN ON ROOF PLAN.
  - CUT EXISTING BLOCKING AS NEEDED TO LOCATE BOTTOM OF SCUPPER 2" ABOVE ADJACENT MEMBRANE.
  - FIELD VERIFY EXISTING CONDITIONS
  - OVERFLOW SCUPPERS SHALL BE 12" WIDE UNLESS OTHERWISE AGREED UPON.



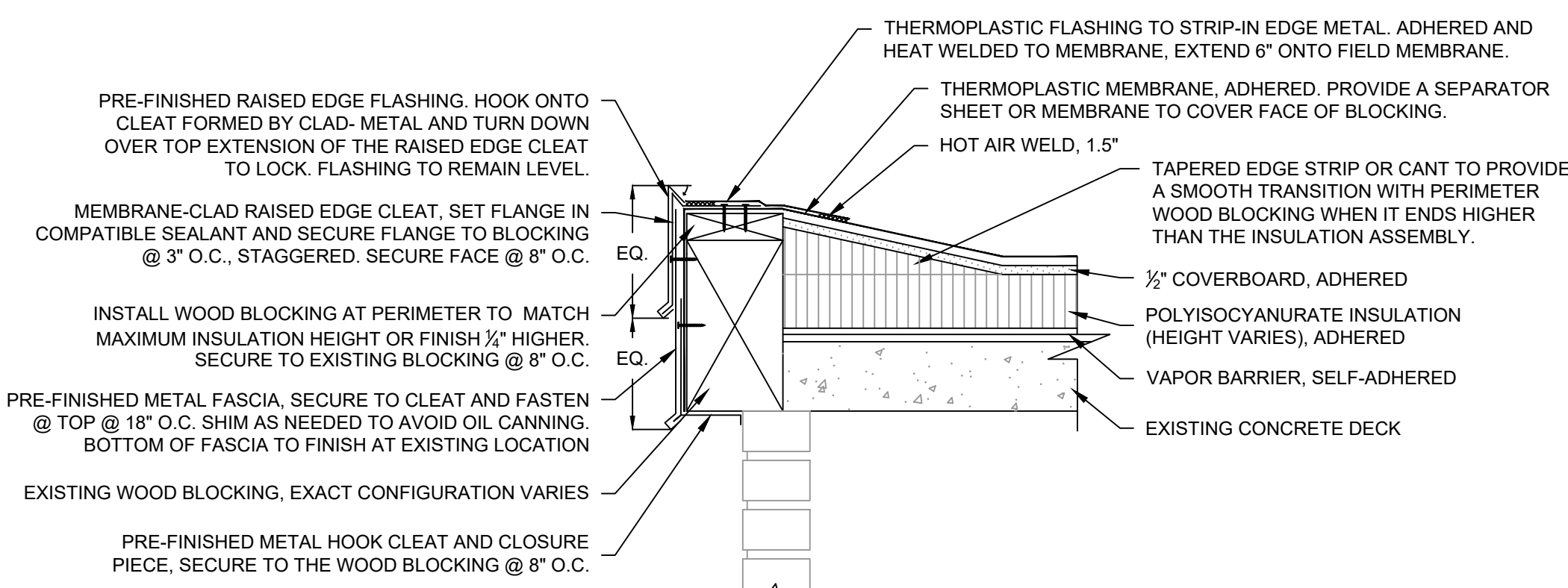
3 RAISED EDGE SCUPPER (AREA E5)  
3.4 SCALE: 1-1/2" = 1'-0"



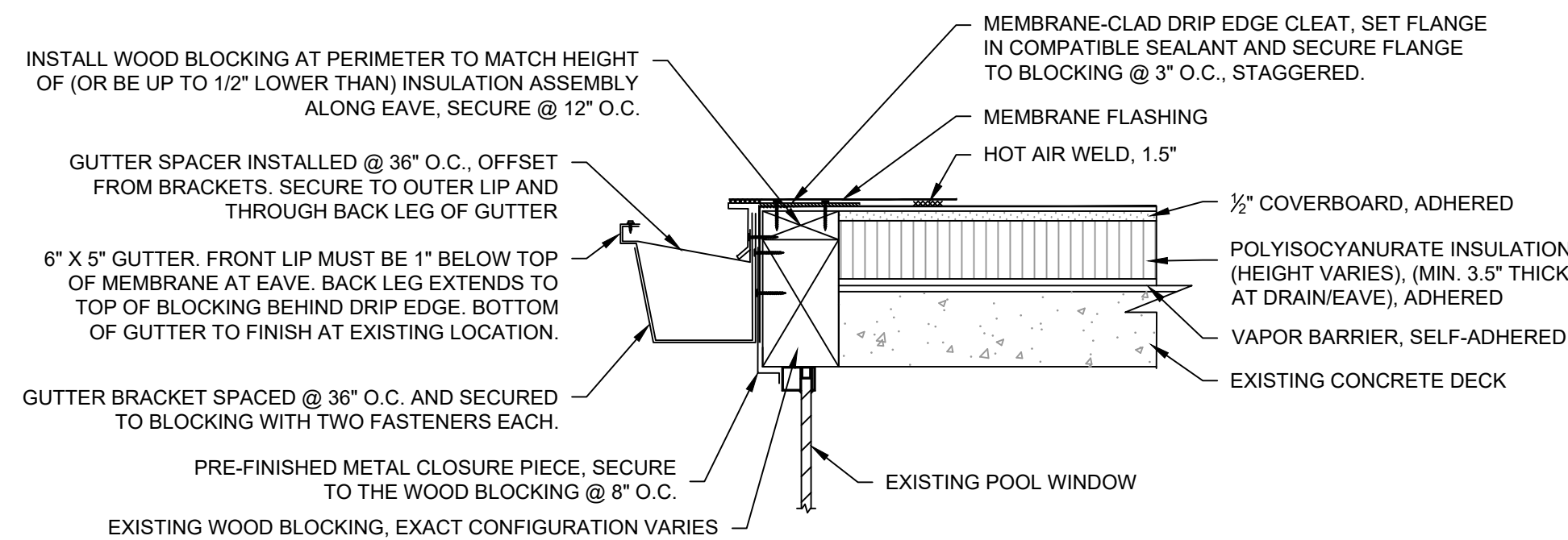
4 RAISED EDGE DETAIL (AREA E1)  
3.4 SCALE: 1-1/2" = 1'-0"



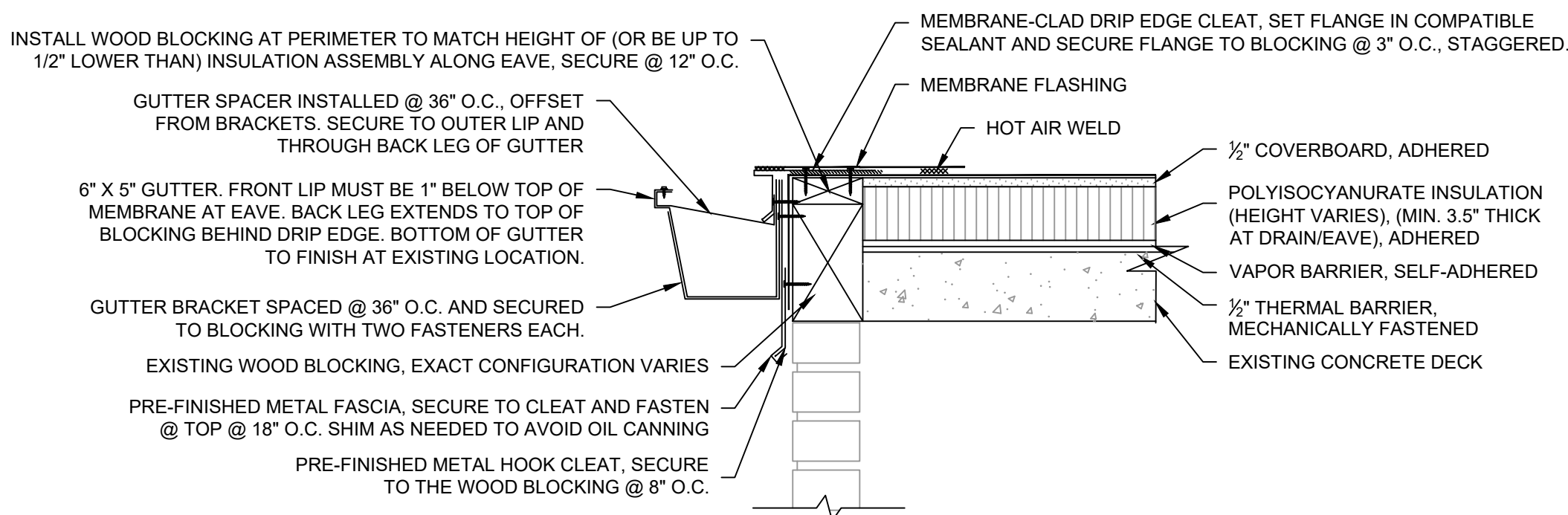
5 RAISED EDGE DETAIL (AREA E2)  
3.4 SCALE: 1-1/2" = 1'-0"



6 RAISED EDGE DETAIL (AREA B1)  
3.4 SCALE: 1-1/2" = 1'-0"



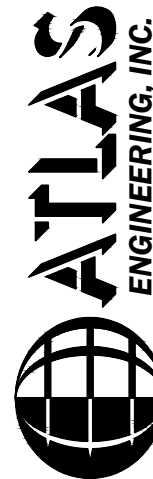
7 GUTTER DETAIL (AREA B1)  
3.4 SCALE: 1-1/2" = 1'-0"



8 GUTTER DETAIL (AREA B1)  
3.4 SCALE: 1-1/2" = 1'-0"

GENERAL NOTES TO DRAWING:

- THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING DATED MAY 2023. PRIOR TO THE START OF WORK, PERFORM A PRE-JOB DAMAGE SURVEY IN ACCORDANCE WITH THE PROJECT MANUAL.
- DETAILS ARE PROVIDED FOR DESIGN INTENT. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, ROOF CONSTRUCTIONS, AND OTHER CONDITIONS SHOWN FOR THE PURPOSE OF BIDDING AND CONSTRUCTION. NOTIFY THE DESIGNER PROMPTLY IF DISCOVERED CONDITIONS WILL NOW ALLOW FOR INSTALLATION OF THE DETAILS AS SHOWN. DO NOT MODIFY DETAILS WITHOUT ADVANCE APPROVAL FROM THE DESIGNER.
- PROVIDE SLOTTED HOLES OR OTHER MINOR MODIFICATIONS TO FASTENING METHODS TO PREVENT OIL CANNING IN VISIBLE FASCIA/EDGE METAL INSTALLATIONS.
- SYSTEM COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED TO BE EXISTING IN THE DETAIL.



551A Pylon Drive  
Raleigh, North Carolina 27606  
(919) 420-7676  
LIC. # C-1349



CONSTRUCTION DETAILS - BID ALTERNATES

REID BUILDING - ROOF REPLACEMENT  
WESTERN CAROLINA UNIVERSITY, CULLOWHEE, NC  
SCO ID#: 22-24547-01A

No.	REVISION	By	Date

DRAWN BY: HMF  
ENGINEER: HMF  
APPROVAL: KEW  
DATE: MAY 2023  
PROJ.: J2626 SCALE: AS SHOWN  
DWG. NO.

3.4