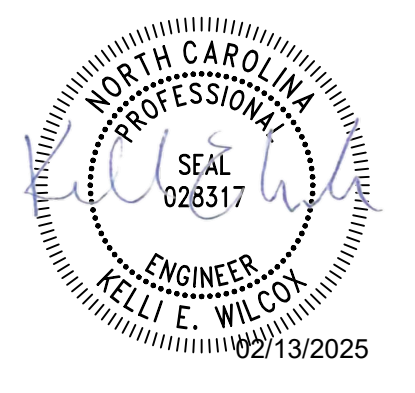


# KENDALL BUILDING ROOF REPLACEMENT CASWELL DEVELOPMENTAL CENTER KINSTON, NORTH CAROLINA

SCO ID#: 22-25783-01B; CODE: 42240; ITEM: 429074



PREPARED FOR:

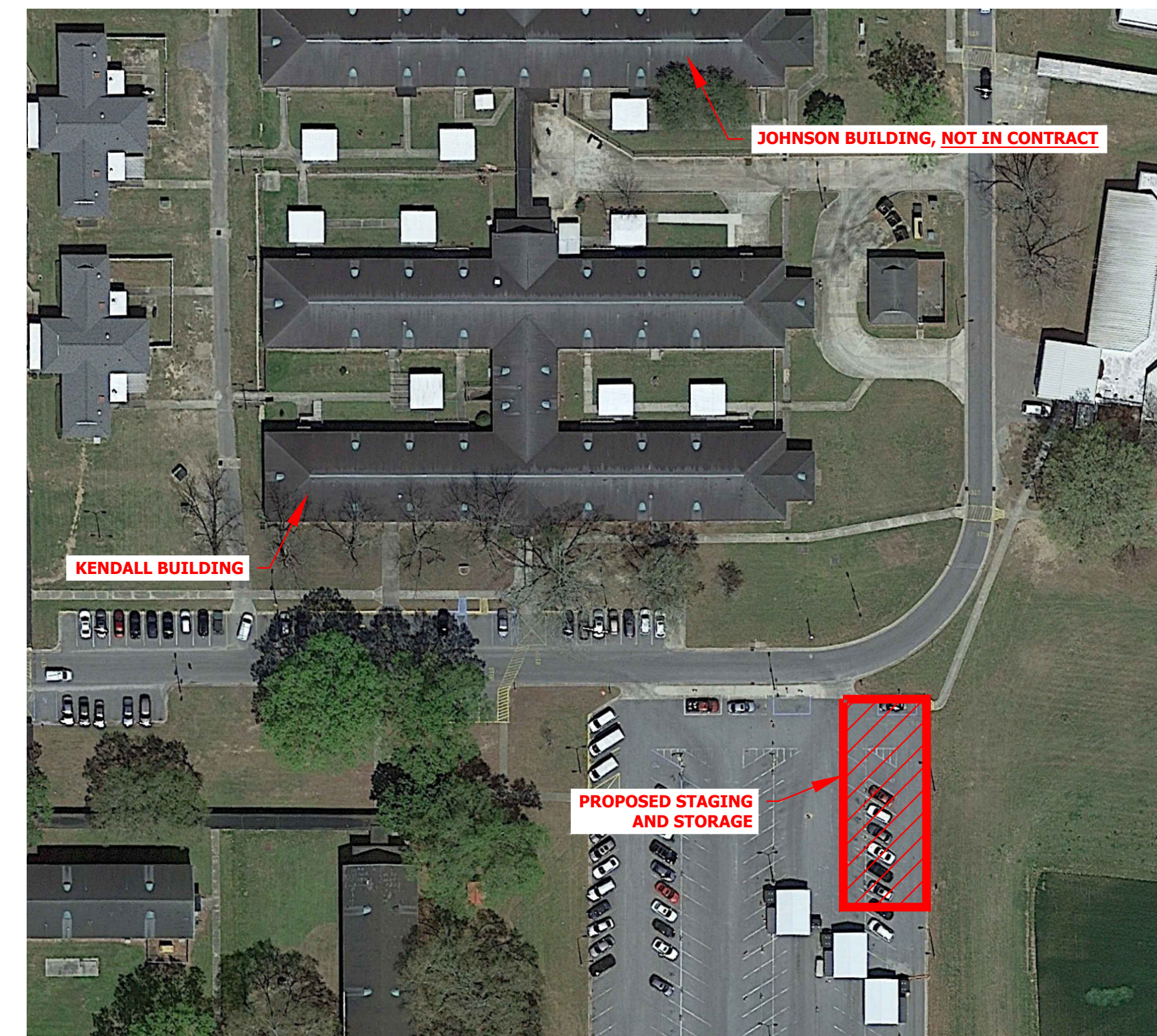
NC DEPARTMENT OF HEALTH AND HUMAN SERVICES  
DIVISION OF PROPERTY AND CONSTRUCTION  
2104 UMSTEAD DRIVE  
3026 MAIL SERVICE CENTER  
RALEIGH, NC 27699



PARROTT BUILDING  
CASWELL DEVELOPMENTAL  
CENTER CAMPUS  
2415 WEST VERNON AVENUE  
KINSTON, NC 28504  
(BID ALTERNATE 01)

KENDALL BUILDING  
CASWELL DEVELOPMENTAL  
CENTER CAMPUS  
2415 WEST VERNON AVENUE  
KINSTON, NC 28504  
(BASE BID)

**SITE LOCATION MAP**  
NOT TO SCALE



**SITE MAP - KENDALL BUILDING**  
NOT TO SCALE

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**COVER SHEET**  
KENDALL BUILDING ROOF REPLACEMENT  
CASWELL DEVELOPMENTAL CENTER, KINSTON, NC  
SCO ID#: 22-25783-01B; CODE:42240; ITEM:429074

No.	REVISION	By	Date

DRAWN BY: TJF  
ENGINEER: KEW  
APPROVAL: KEW  
DATE: FEB 2025  
PROJ.: J2811 SCALE: AS SHOWN  
DWG. NO.

COV



# 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL ROOF PROJECTS

Name of Project: Kendall Building Roof Replacement  
 Address: Caswell Developmental Center, Kinston, NC Zip Code: 28504  
 Owner/Authorized Agent: NCDHHS/Medhat Metry Phone #: (919) 279-1462  
 E-Mail: medhat.metry@dohhs.nc.gov  
 Owned By:  City/County  Private  State  
 Code Enforcement Jurisdiction:  City  County  State

CONTACT: Kelli Wilcox, PE, RRC, Atlas Engineering, Inc.

DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE #	E-MAIL
Architectural	N/A	N/A	N/A		
Civil	N/A	N/A	N/A		
Electrical	N/A	N/A	N/A		
Fire Alarm	N/A	N/A	N/A		
Plumbing	N/A	N/A	N/A		
Mechanical	N/A	N/A	N/A		
Sprinkler-Standpipe	N/A	N/A	N/A		
Structural	N/A	N/A	N/A		
Re-Roofing	Atlas Engineering	Kelli Wilcox	NC#028317	(919) 420-7676	kelli@atlasnc.com

2018 NC CODE FOR:  Roof Replacement  Roof Recover  Roof Repair  
 CONSTRUCTED (date): 1951  
 CURRENT OCCUPANCY(S) (Ch. 3): Dormitory (Institutional: I-2)

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)  
 Risk Category:  I  II  III  IV

Gross Area (sq. ft.):						
Kendall Building	Roof Area A	Roof Area B	Roof Area C	Entrance Roof	Parrott Building (Bldg Alt 01)	TOTAL
37,950*	475*	350*	275*	75*	320**	39,445*

\*Roof Area Only  
 \*\*Occupancy and Basic Building Data for Parrott Building is the same as listed for Kendall Building

FIRE PROTECTION REQUIREMENTS

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

NOT APPLICABLE: ROOF REPLACEMENT WILL NOT CHANGE THE EXISTING FIRE SEPARATION DISTANCE OR RATING OF THE OVERALL ROOF ASSEMBLY OF ORIGINAL CONSTRUCTION. SYSTEM WILL REMAIN A UL CLASS A RATED SYSTEM.

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 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: No  
 Exempt Building: Yes Provide Code of Statutory Reference:  
 Only roofing system being addressed in this project.

Climate Zone: 3A  
 Method of Compliance: Energy Code:  Performance  Prescriptive  
 (If "Other" specify source here: \_\_\_\_\_)

THERMAL ENVELOPE (Prescriptive method only)  
 Roof/ceiling Assembly (Kendall Building)  
 Description of assembly: Not Applicable: Attic Space Beneath Existing Roof Deck is Vented with Existing Insulation at Attic Floor Level. Areas Below Connector Roofs and Front Entrance Roof are Unconditioned Space.  
 U-Value of total assembly: n/a  
 R-Value of insulation: n/a  
 Skylights in each assembly: n/a  
 U-Value of skylight: n/a  
 Total square footage of skylights in each assembly: n/a

Roof/ceiling Assembly (Parrott Building)  
 Description of assembly: Not Applicable: Areas Below Front Entrance Roof and Soiled Linen Roofs are Unconditioned Space.  
 U-Value of total assembly: n/a  
 R-Value of insulation: n/a  
 Skylights in each assembly: n/a  
 U-Value of skylight: n/a  
 Total square footage of skylights in each assembly: n/a

## STRUCTURAL DESIGN

DESIGN LOADS:  
 Importance Factors: Snow ( $I_s$ ) 1.10  
 Seismic ( $I_e$ ) 1.25  
 Live Loads: Roof 20 psf  
 Ground Snow Load: 10 psf  
 Wind Load: Ultimate Wind Speed: 135 mph (ASCE-7, Risk Cat. III)  
 Exposure Category: C

Design Pressure for Kendall Building (ASCE 7-16):  
 Zone 1: 61 psf\*  
 Zone 2: 79 psf\*  
 Zone 2n: 97 psf  
 Zone 2r: 78 psf  
 Zone 2r': 97 psf  
 Zone 3: 79 psf  
 Zone 3e: 97 psf  
 Zone 3r: 137 psf

\*Wind loads shown for each zone represent the maximum ultimate uplift loads calculated for conditions shown in ASCE 7-16, Figures 30.3-2C and 30.3-2G

Design Pressure for Front Entrance Roof and Connector Roofs (Roof Areas A, B, and C) at Kendall Building (ASCE 7-16):  
 Zone 1: 43 psf  
 Zone 2: 50 psf  
 Zone 2': 60 psf  
 Zone 3: 67 psf  
 Zone 3': 94 psf

Design Pressure for Front Entrance Roof and Soiled Linen Roofs at Parrott Building (ASCE 7-16):  
 Zone 1: 43 psf  
 Zone 2: 50 psf  
 Zone 2': 60 psf  
 Zone 3: 67 psf  
 Zone 3': 94 psf



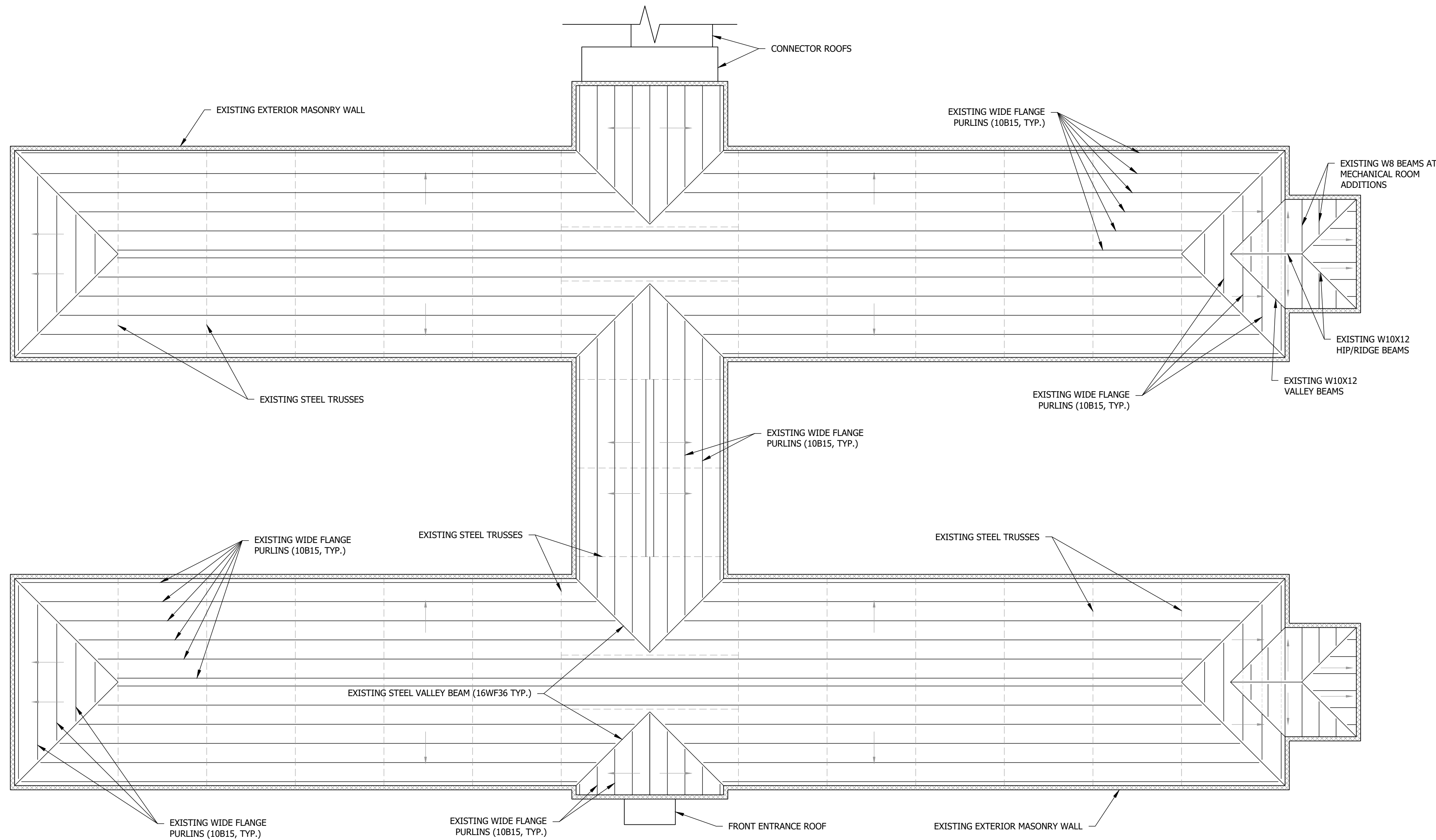
**BUILDING CODE SUMMARY**  
 KENDALL BUILDING ROOF REPLACEMENT  
 CASWELL DEVELOPMENTAL CENTER, KINSTON, NC  
 SCO ID#: 22-25783-01B; CODE:42240; ITEM:429074

No.	REVISION	By	Date

DRAWN BY: TJF  
 ENGINEER: KEW  
 APPROVAL: KEW  
 DATE: FEB 2025  
 PROJ.: J2811 SCALE: AS SHOWN

DWG. NO. **BCS**

BID SET



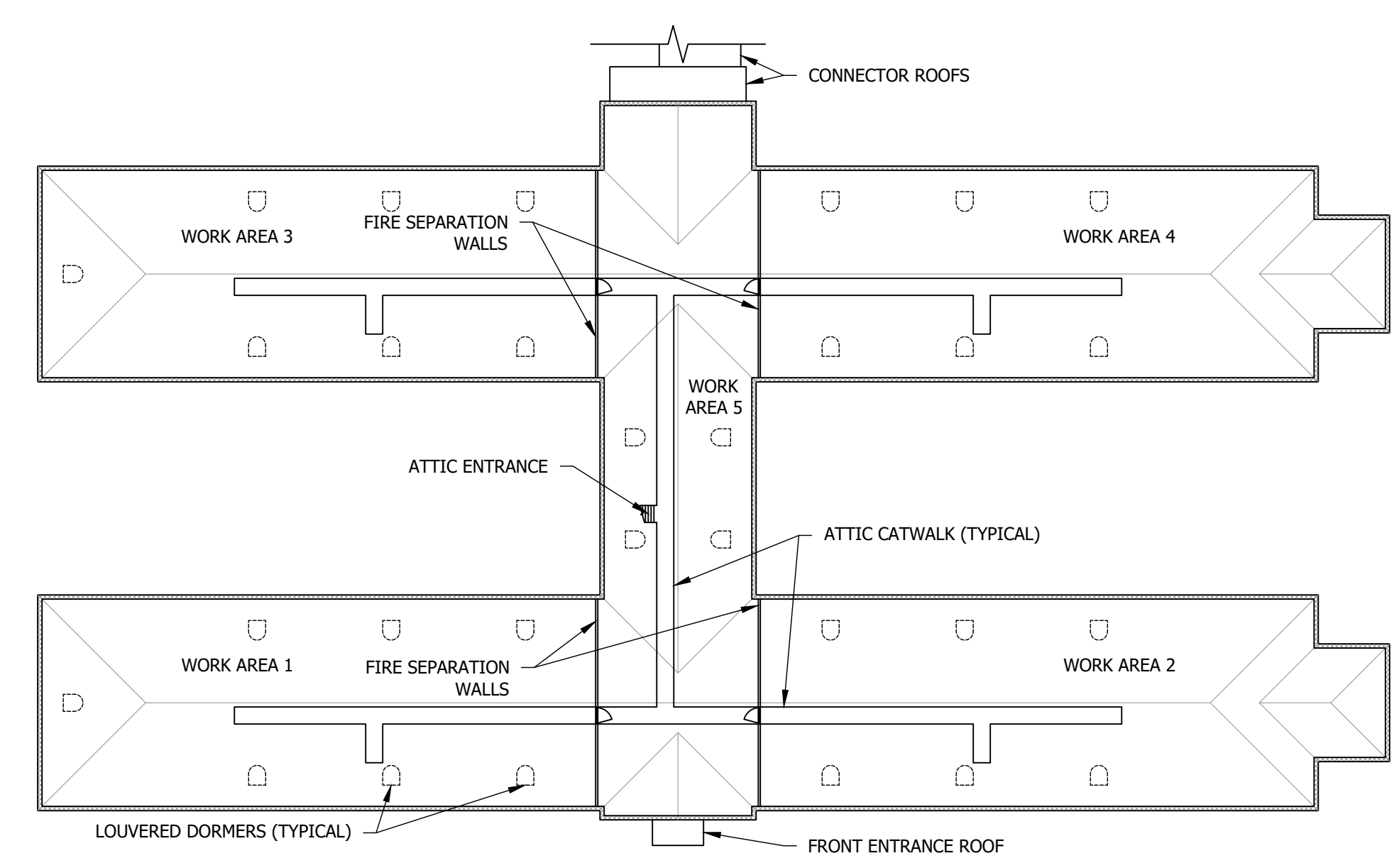
**LEGEND**

- EXISTING EXTERIOR MASONRY WALL
- EXISTING STEEL TRUSS SUPPORTING PURLINS AND ROOF DECK (FIELD VERIFY)
- EXISTING WIDE FLANGE PURLIN SUPPORTING ROOF DECK (FIELD VERIFY)
- EXISTING 6:12 ROOF SLOPE (TO BE MAINTAINED BY RETROFIT STRUCTURE)

- NOTES TO KENDALL BUILDING EXISTING ROOF FRAMING PLAN:**
- THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING. 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 TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF WORK AT THE ROOFS 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.
  - THE EXISTING ROOFING SYSTEM AT THE MAIN ROOF AREA OF THE KENDALL BUILDING INCLUDES A GRANULAR-SURFACED ASPHALT SHINGLE ROOF SYSTEM OVER UNDERLAYMENT AND A 2" THICK NAILABLE CONCRETE TONGUE AND GROOVE PLANK DECK SUPPORTED BY STEEL STRUCTURE OVER A VENTED ATTIC SPACE. MINOR DIFFERENCES IN THE DECK MAY BE PRESENT AT MECHANICAL ROOM ADDITIONS. THE ROOF SLOPE IS APPROXIMATELY 6:12 AND IS PROVIDED BY THE STRUCTURE. ROOF CONSTRUCTION WAS OBSERVED AT REPRESENTATIVE AREAS. **GROUT AT JOINTS IN THE PLANK DECK (MAINLY AT RIDGE/VALLEY JOINTS) CONTAINS ASBESTOS. REFER TO 2/1.0 FOR WORK PLAN FOR ATTIC PREPARATION AND PROTECTION.**
  - PROTECT EXISTING BUILDING INTERIORS, FINISHES, AND CONTENTS FROM DAMAGE DUE TO DUST, DEBRIS, AND/OR WATER ENTRY DURING CONSTRUCTION ACTIVITIES. 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.
  - NO INTERRUPTION OF UTILITIES MAY OCCUR UNLESS AGREED UPON IN ADVANCE WITH THE OWNER. LOCATED THESE FEATURES TO ALLOW FOR PROTECTION DURING THE WORK AND IDENTIFY ITEMS THAT WILL REQUIRE TEMPORARY DISRUPTION TO ALLOW FOR COORDINATION WITH THE OWNER.
  - FOLLOW ALL SPECIFIC REQUIREMENTS OF CASWELL DEVELOPMENTAL CENTER TO ENSURE THE SAFETY OF THE BUILDING OCCUPANTS DURING CONSTRUCTION INCLUDING SECUREMENT AND SUPERVISION OF ALL LADDERS, TOOLS, EQUIPMENT, VEHICLES, AND STORED MATERIALS. PROVIDE FENCING AROUND STAGING AND STORAGE AREAS. THE CONTRACTOR MAY REQUIRE AN ESCORT TO ENTER THE BUILDING TO ACCESS THE ATTIC SPACE FOR ASBESTOS PROTECTION AND MONITORING.

PLAN NORTH  
 1.0 EXISTING ROOF FRAMING PLAN - KENDALL BUILDING  
 SCALE: 1/16" = 1'-0"

- NOTES TO WORK AREA PREPARATION PLAN:**
- THE SEAM GROUT AT RIDGE/VALLEY JOINTS IN THE ROOF DECK PLANKS CONTAINS ASBESTOS (3% CHRYSOTILE). SAMPLING AND TESTING WAS PERFORMED BY ATLAS ENGINEERING UNDER THE DIRECTION OF TIM FORD (NC INSPECTOR NO. 13378).
  - THIS DRAWING IS PROVIDED TO COMMUNICATE DESIGN INTENT. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, LAYOUT, AND OTHER CONDITIONS SHOWN FOR THE PURPOSE OF BIDDING AND CONSTRUCTION.
  - THE EXISTING ATTIC SPACE IS DIVIDED INTO FIVE (5) WORK AREAS BY EXISTING FIRE SEPARATION WALLS. PRIOR TO ANY DISTURBANCE OF THE SEAM GROUT DUE TO WORK ON THE ROOF, THE CONTRACTOR IS REQUIRED TO PREPARE THE CORRESPONDING WORK AREA(S) IN THE ATTIC SPACE BELOW AS FOLLOWS:
    - LOOSELY LAY PLASTIC SHEETING A MIN. OF 10' TO EACH SIDE OF THE IMMEDIATE WORK AREA(S) TO BE AFFECTED BY WORK ABOVE (SUCH AS SECUREMENT OF THE ANGLE CLIPS TO THE EXISTING STRUCTURE THROUGH THE EXISTING ROOF DECK AND REMOVAL/MODIFICATION OF EXISTING DORMER CURB/FLASHINGS). THE CONTRACTOR MUST BE CAUTIOUS WHERE EXISTING EQUIPMENT MUST BE COVERED TO ENSURE THAT PLASTIC INSTALLED WILL NOT CAUSE OVERHEATING OR OTHER DAMAGE TO EQUIPMENT.
    - PROTECTION MATERIAL MUST REMAIN IN PLACE WITHIN THE WORK AREA(S) UNTIL COMPLETION OF THE RETROFIT FRAMING INSTALLATION WORK ON THE ROOF ARE DIRECTLY ABOVE.
    - AIR PRESSURING MACHINES MUST BE USED WITHIN THE ATTIC SPACE TO MAINTAIN NEGATIVE AIR PRESSURE WITHIN WORK AREA(S) WHEN WORK IS IN PROGRESS ON CORRESPONDING ROOF AREAS ABOVE. PLACE SUFFICIENT NEGATIVE AIR PRESSURIZING MACHINES EQUIPPED WITH HEPA FILTRATION, UTILIZING EXISTING LOUVERED DORMERS THAT ARE FREE FROM DUCTWORK AS ATTACHMENT POINTS. IF MACHINES ARE PLACED ON THE GROUND, THEY MUST BE ADEQUATELY SECURED/PROTECTED FROM PUBLIC ACCESS BY FENCING/BARRIER WITH WARNING TAPE.
    - OTHER OPENINGS AND ACCESSIBLE PENETRATIONS, ACCESS DOORS, ETC. TO THE WORK AREA MUST BE SEALED. LOUVERED PENETRATIONS NOT CONNECTED TO NEGATIVE AIR MACHINES, OR SEPARATE HVAC DUCTWORK, SHOULD BE SEALED AND HAVE FILTERS INSTALLED TO CONTINUE TO ALLOW FOR VENTILATION OF THE ATTIC SPACE AND INTAKE OF OUTSIDE AIR.
    - REFER TO PROJECT MANUAL APPENDIX A: ABATEMENT PLAN FOR PLANNED ASBESTOS CLEANING ACTIVITIES
  - THE CONTRACTOR MUST COORDINATE THE PREPARATION WORK AND ROOFING WORK WITH THE DESIGNER AND THEIR ASBESTOS SUB-CONSULTANT (OLM ENVIRONMENTAL) TO ALLOW FOR INSPECTION OF THE ATTIC PREPARATIONS AND AIR SAMPLING/MONITORING BY THE ASBESTOS SUB-CONSULTANT. THE ASBESTOS SUB-CONSULTANT MUST BE ALLOWED TO INSPECT THE PREPARATION OF THE WORK AREA(S) PRIOR TO THE START OF ANY WORK/DISTURBANCE OF THE ROOF DECK ABOVE. THE ASBESTOS SUB-CONSULTANT MUST PERFORM AIR SAMPLING WITHIN THE ATTIC SPACE AND OCCUPIED SPACE ON THE FIRST DAY OF WORK ACTIVITY ABOVE EACH WORK AREA. THE CONTRACTOR OR SUBCONTRACTOR RESPONSIBLE FOR PLACEMENT OF PROTECTION MATERIALS MUST BE PRESENT ON SITE ON THE FIRST DAY OF WORK ABOVE EACH AREA TO ALLOW FOR ANY CORRECTIONS/REPAIRS TO PLACED MATERIALS. THE ASBESTOS SUB-CONSULTANT MUST PERFORM FINAL AIR SAMPLING AFTER THE COMPLETION OF RETROFIT ROOF FRAMING WORK, REMOVAL OF THE PROTECTION MATERIALS AND OTHER CONSTRUCTION DEBRIS, AND FINAL CLEANING. AIR PRESSURIZING MACHINES WILL REMAIN IN PLACE AND FUNCTIONING DURING FINAL AIR SAMPLING.



PLAN NORTH  
 2.0 WORK AREA PREPARATION PLAN - KENDALL BUILDING  
 SCALE: 1/32" = 1'-0"

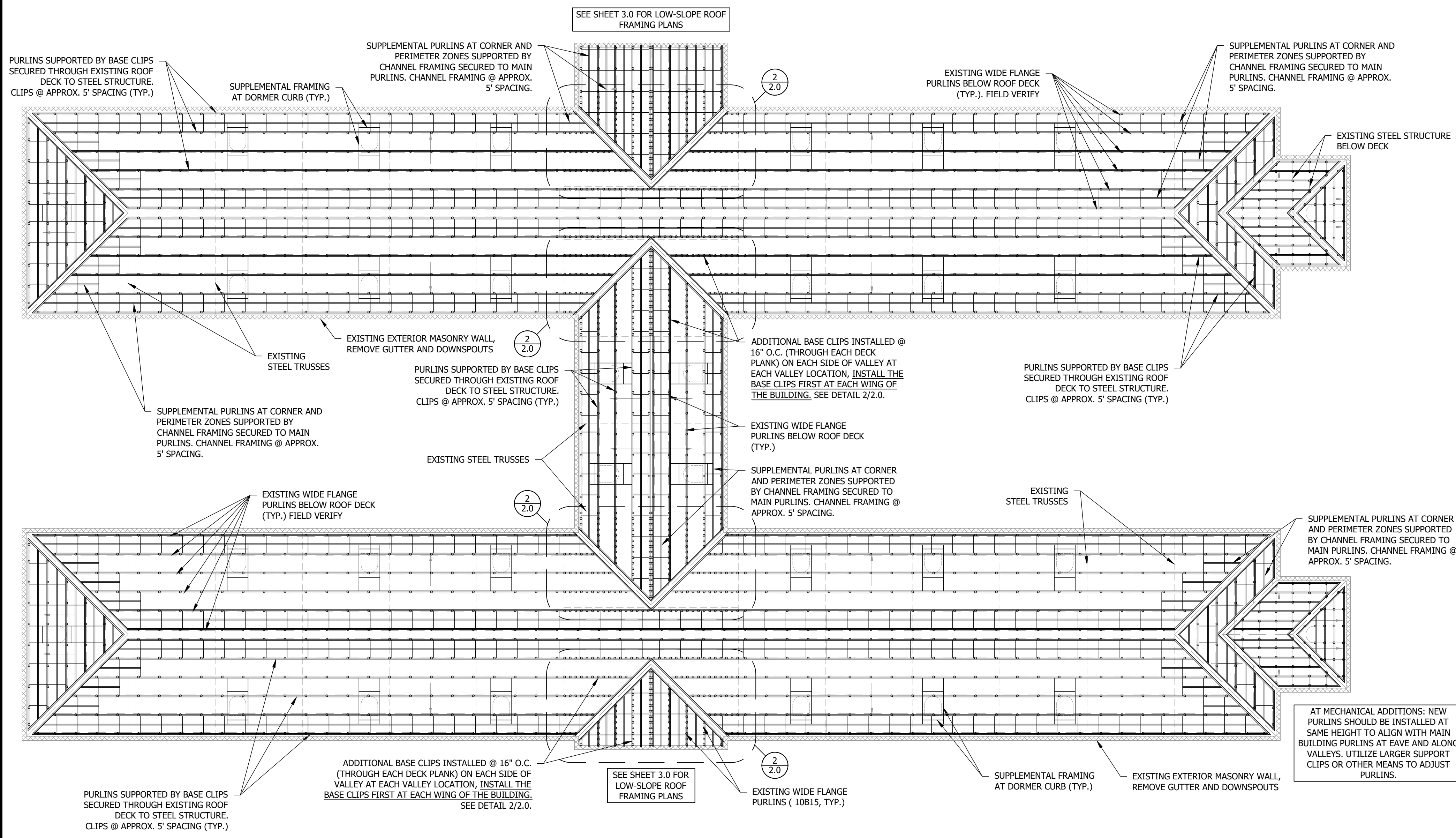


**EXISTING ROOF FRAMING PLAN AND  
 WORK AREA PREPARATION PLAN**  
 KENDALL BUILDING ROOF REPLACEMENT  
 CASWELL DEVELOPMENTAL CENTER, KINSTON, NC  
 SCO ID#: 22-25783-01B; CODE:42240; ITEM:429074

No.	REVISION	By	Date

DRAWN BY: T J F  
 ENGINEER: KEW  
 APPROVAL: KEW  
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 PROJ.: J2811 SCALE: AS SHOWN  
 DWG. NO.





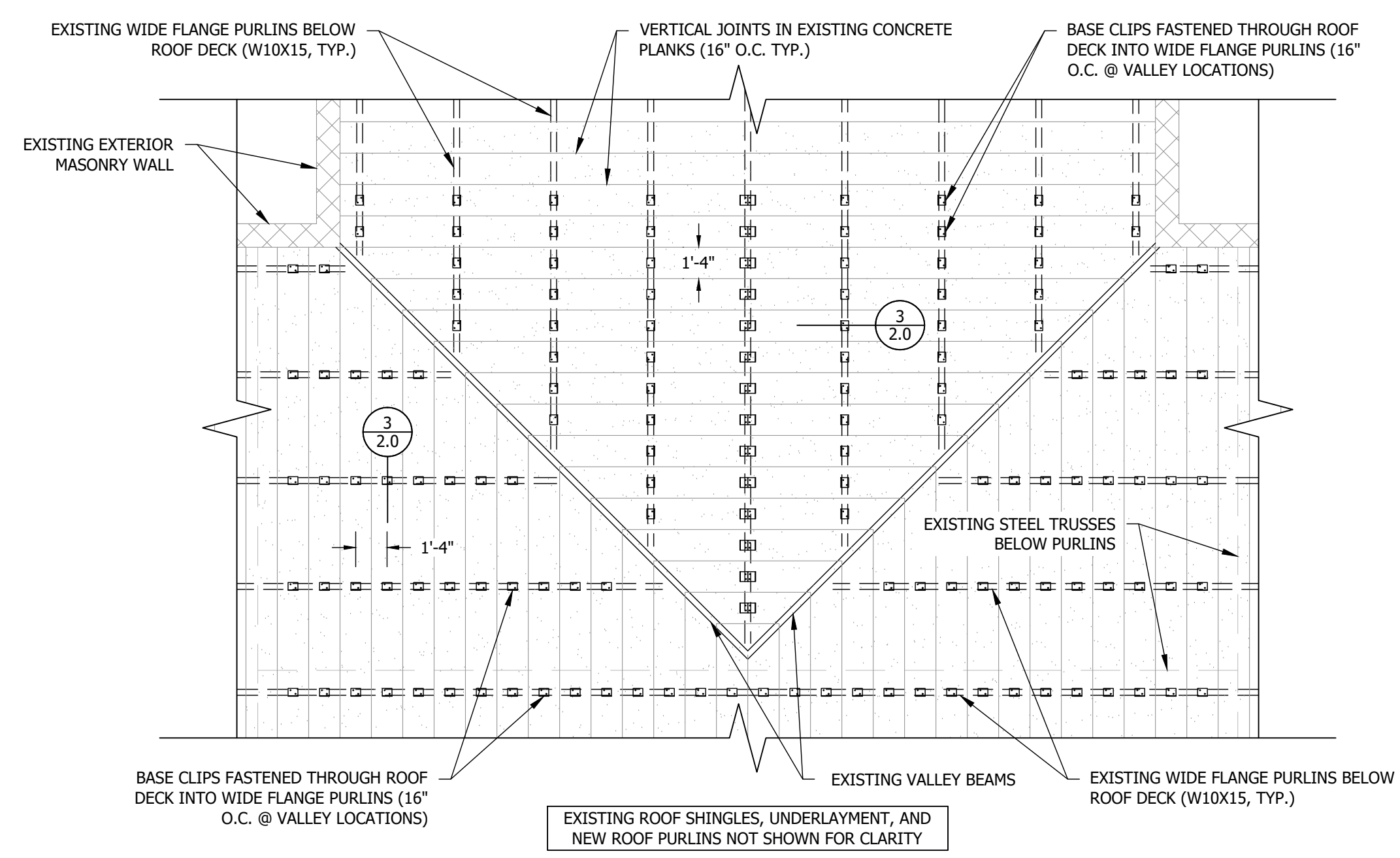
**LEGEND**

	EXISTING EXTERIOR MASONRY WALL		EXISTING 6:12 ROOF SLOPE (TO BE MAINTAINED BY RETROFIT STRUCTURE)
	EXISTING STEEL TRUSS (FIELD VERIFY)		PURLIN SUPPORTED BY BASE CLIP SECURED THROUGH EXISTING ROOF DECK TO EXISTING STEEL STRUCTURE. BASE CLIPS @ APPROX. 5' O.C. SPACING
	EXISTING WIDE FLANGE PURLIN BELOW ROOF DECK (FIELD VERIFY)		SUPPLEMENTAL PURLINS SUPPORTED BY CHANNEL FRAMING SECURED TO MAIN PURLINS @ APPROX. 5' O.C. SPACING.
	LOUVERED DORMERS (PROVIDE SUPPLEMENTAL RETROFIT STRUCTURE AS NEEDED FOR CURB PENETRATION)		DETAIL CALLOUT (DETAIL X ON SHEET X.X)

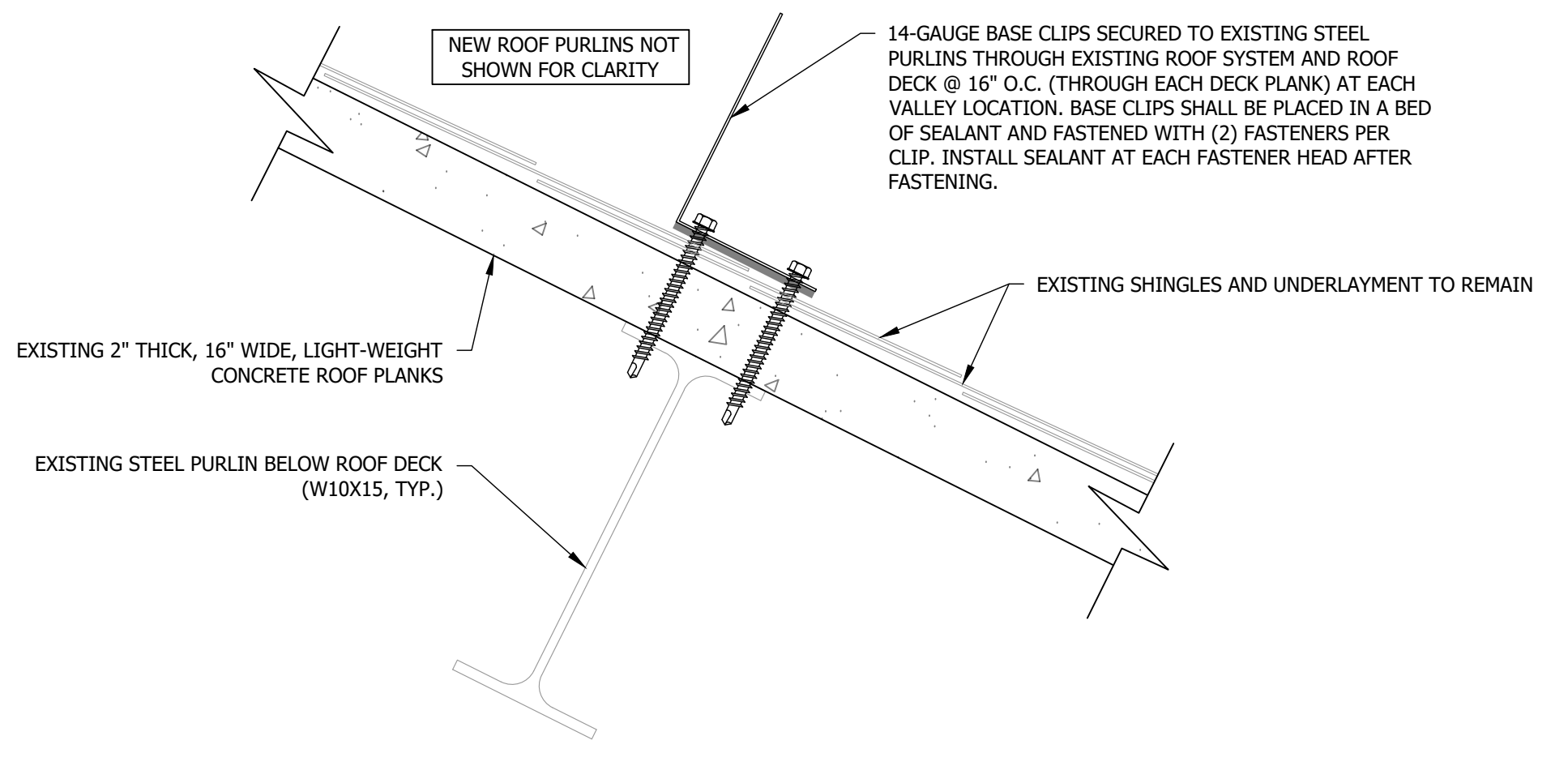
**NOTES TO KENDALL BUILDING NEW ROOF FRAMING PLAN:**

- THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING. 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 TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF WORK AT THE ROOFS 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.
- THE EXISTING ROOFING SYSTEM(S) AT THE KENDALL BUILDING ROOFS ARE AS FOLLOWS:
  - MAIN ROOF AREA: A GRANULAR-SURFACED ASPHALT SHINGLE ROOF SYSTEM OVER UNDERLAYMENT AND A 2" THICK NAILABLE CONCRETE TONGUE AND GROOVE PLANK DECK SUPPORTED BY STEEL STRUCTURE OVER A VENTED ATTIC SPACE. MINOR DIFFERENCES IN THE DECK MAY BE PRESENT AT MECHANICAL ROOM ADDITIONS. THE ROOF SLOPE IS APPROXIMATELY 6:12 AND IS PROVIDED BY THE STRUCTURE. ROOF CONSTRUCTION WAS OBSERVED AT REPRESENTATIVE AREAS. **GROUT AT JOINTS IN THE PLANK DECK (MAINLY AT RIDGE/VALLEY JOINTS) CONTAINS ASBESTOS. REFER TO 2/1.0 FOR WORK PLAN FOR ATTIC PREPARATION AND PROTECTION.**
- THE BASE BID SCOPE OF WORK FOR THE MAIN ROOF AREA AT KENDALL BUILDING IS AS FOLLOWS:
  - INSTALL PROTECTION MATERIALS WITHIN THE ATTIC SPACES BENEATH THE ROOF DECK AREAS TO BE DISTURBED IN EACH DESIGNATED WORK AREA PRIOR TO THE START OF ROOF REPLACEMENT. PROVIDE AND SETUP NEGATIVE AIR PRESSURIZATION EQUIPMENT AND ASSOCIATED MATERIALS DURING WORK. COORDINATE AND COOPERATE WITH THE ASBESTOS CONSULTANT DURING WORK TO ALLOW FOR INITIAL AND FINAL AIR MONITORING IN EACH WORK AREA.
  - REMOVE THE EXISTING DOWNSPOUTS, GUTTER, AND SHEETMETAL FLASHINGS AT THE PERIMETER.
  - INSTALL NEW RETROFIT FRAMING AND A STANDING SEAM METAL ROOF SYSTEM WITH ASSOCIATED PREPARATION AND PROTECTION OF WORK AREAS WITHIN THE ATTIC SPACE BELOW AS SPECIFIED IN THE DESIGN DETAILS AND PROJECT MANUAL.
  - INSTALL NEW PERIMETER SHEETMETAL, GUTTERS, DOWNSPOUTS, LOUVERED DORMERS, SNOW GUARD, AND OTHER ACCESSORY WORK AS SPECIFIED IN THE DESIGN DETAILS AND PROJECT MANUAL (SEE SHEET 2.1)
  - REMOVE THE EXISTING SHEETMETAL DORMERS AND INSTALL NEW SPECIALTY FABRICATED DORMERS WITH SKIRT/CURB DESIGNED FOR INSTALLATION IN THE NEW STANDING SEAM METAL ROOF SYSTEM (SEE SHEET 2.1).
- COMPLETE INSTALLATION OF PROTECTION MATERIALS AND VENTILATION EQUIPMENT WITHIN THE ATTIC SPACES PRIOR TO THE START OF RETROFIT FRAMING AND STANDING SEAM METAL ROOF SYSTEM. REMOVE ISOLATED SHINGLES ONLY IF NECESSARY AND PROVIDE TEMPORARY PROTECTION TO MAINTAIN A WATERTIGHT CONDITION. INSPECT EXPOSED WOOD BLOCKING AND MAKE REPAIRS WHERE DETERIORATED TO ENSURE ADEQUATE SUBSTRATE FOR INSTALLATION OF THE NEW ROOF SYSTEM. AN ESTIMATED QUANTITY OF WOOD BLOCKING REPLACEMENT IS INCLUDED IN THE BASE BID.
- INSTALL A NEW RETROFIT SUBSTRUCTURE TO SUPPORT THE NEW STANDING SEAM METAL ROOF SYSTEM. INSTALL NEW BASE CLIPS/SHOES SECURED THROUGH THE EXISTING SHINGLED ROOF SYSTEM INTO THE EXISTING STEEL FRAMING TO PROVIDE ATTACHMENT POINTS FOR THE NEW RETROFIT PURLINS. INSTALL ADDITIONAL BASE CLIPS/SHOES AT VALLEY LOCATIONS AS SHOWN ON THE NEW ROOF FRAMING PLAN PRIOR TO INSTALLING BASE CLIPS/SHOES AT REMAINDER OF EACH WING. WHERE SUPPLEMENTAL PURLINS ARE REQUIRED BETWEEN EXISTING STRUCTURAL STEEL, INSTALL PURLINS AND PROVIDE SUPPLEMENTARY FRAMING BETWEEN PURLINS TO SUPPORT INTERMEDIATE PURLINS. INSTALL RAKE/EAVE ANGLES, OFFSET CLEATS, STRAPPING, BRACING, ANGLES, AND OTHER COMPONENTS WHETHER LISTED/SHOWN OR NOT AS REQUIRED FOR PROPER INSTALLATION OF THE NEW FRAMING SYSTEM IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND REQUIRED SHOP DRAWINGS AND CALCULATIONS BY THE ROOF SYSTEM MANUFACTURER AND SEALED BY A NORTH CAROLINA PROFESSIONAL ENGINEER. PERFORM FASTENER PULL TESTING TO CONFIRM ADEQUATE WIND UPLIFT RESISTANCE OF CONNECTION TO THE EXISTING STRUCTURAL MEMBERS (STEEL FRAMING AND PERIMETER WOOD BLOCKING). ALL PENETRATIONS MADE THROUGH THE SHINGLES MUST BE MAINTAINED IN A WATERTIGHT CONDITION.
- INSTALL NEW PRE-FINISHED STANDING SEAM METAL ROOF PANELS SECURE TO THE PURLINS WITH FLOATING CLIPS. REFER TO SHEET 2.1 FOR ADDITIONAL INFORMATION. REMOVE AND DISPOSE OF EXISTING LOW-PROFILE VENTS, AND CURBS/DORMERS THAT CONFLICT WITH NEW INSTALLATION. INSTALL NEW PRE-FABRICATED CURBS, NEW VENTS WITH FLAT PAN CURBS, NEW HALF-ROUND DORMER CURBS WITH LOUVERS, AND ALL ASSOCIATED SUPPLEMENTAL FRAMING REQUIRED FOR PROPER SUPPORT OF THE PENETRATION CURBS AND FLASHINGS.
- 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 MAINTAINING 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, THE CONTRACTOR IS RESPONSIBLE FOR MAKING REPAIRS/REPLACEMENT AS NECESSARY TO RETURN THE DAMAGE ITEM/FINISH/SYSTEM TO THE CONDITION IT WAS IN PRIOR TO DAMAGE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE STORAGE AND STAGING AREA(S) SHOWN OR OTHER AREAS ACCESSED FOR THE PURPOSE OF CONSTRUCTION. COORDINATE AREAS WITH THE OWNER TO CONFIRM ACCEPTABILITY. AREAS USED FOR CONSTRUCTION MUST BE RETURNED TO THEIR ORIGINAL CONDITION AT THE END OF THE PROJECT. NO INTERRUPTION OF UTILITIES MAY OCCUR UNLESS AGREED UPON IN ADVANCE WITH THE OWNER. ELECTRICAL SERVICES, WIRES, EQUIPMENT, UTILITIES, STORM DRAIN LINES, ETC. MAY EXIST WITHIN OR DIRECTLY ADJACENT TO THE PROPOSED STORAGE AND STAGING AREA AND ROOF ACCESS POINT(S). LOCATE, MARK, AND PROTECT THESE FEATURES TO ALLOW FOR PROTECTION DURING THE WORK AND IDENTIFY ITEMS THAT WILL REQUIRE TEMPORARY DISRUPTION TO ALLOW FOR COORDINATION WITH THE OWNER. MAINTAIN SAFE INGRESS AND EGRESS FROM THE BUILDING AND DO NOT BLOCK VEHICULAR OR PEDESTRIAN ACCESS TO THE BUILDING WITHOUT ADVANCE COORDINATION WITH THE OWNER.
- FOLLOW ALL SPECIFIC REQUIREMENTS OF CASWELL DEVELOPMENTAL CENTER TO ENSURE THE SAFETY OF THE BUILDING OCCUPANTS DURING CONSTRUCTION INCLUDING SECUREMENT AND SUPERVISION OF ALL LADDERS, TOOLS, EQUIPMENT, VEHICLES, AND STORED MATERIALS. PROVIDE FENCING AROUND STAGING AND STORAGE AREAS. THE CONTRACTOR MAY REQUIRE AN ESCORT TO ENTER THE BUILDING TO ACCESS THE ATTIC SPACE FOR ASBESTOS PROTECTION AND MONITORING.

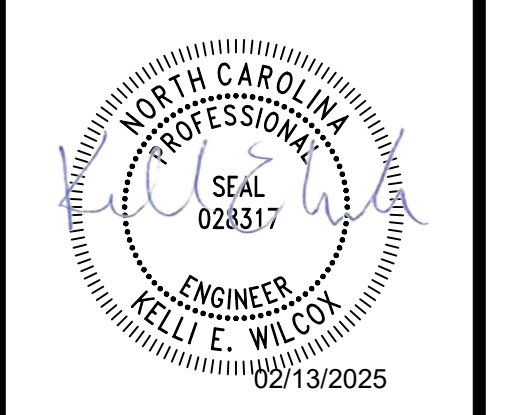
PLAN NORTH  
 1  
 2.0  
 NEW ROOF FRAMING PLAN - KENDALL BUILDING  
 SCALE: 1/16" = 1'-0"



2  
 2.0  
 ENLARGED BASE CLIP LAYOUT AT ROOF DECK ADJACENT TO VALLEY LOCATION (TYPICAL)  
 SCALE: 3/16" = 1'-0"



3  
 2.0  
 BASE CLIP FASTENING AT ROOF DECK ADJACENT TO VALLEY (TYPICAL)  
 SCALE: NOT TO SCALE



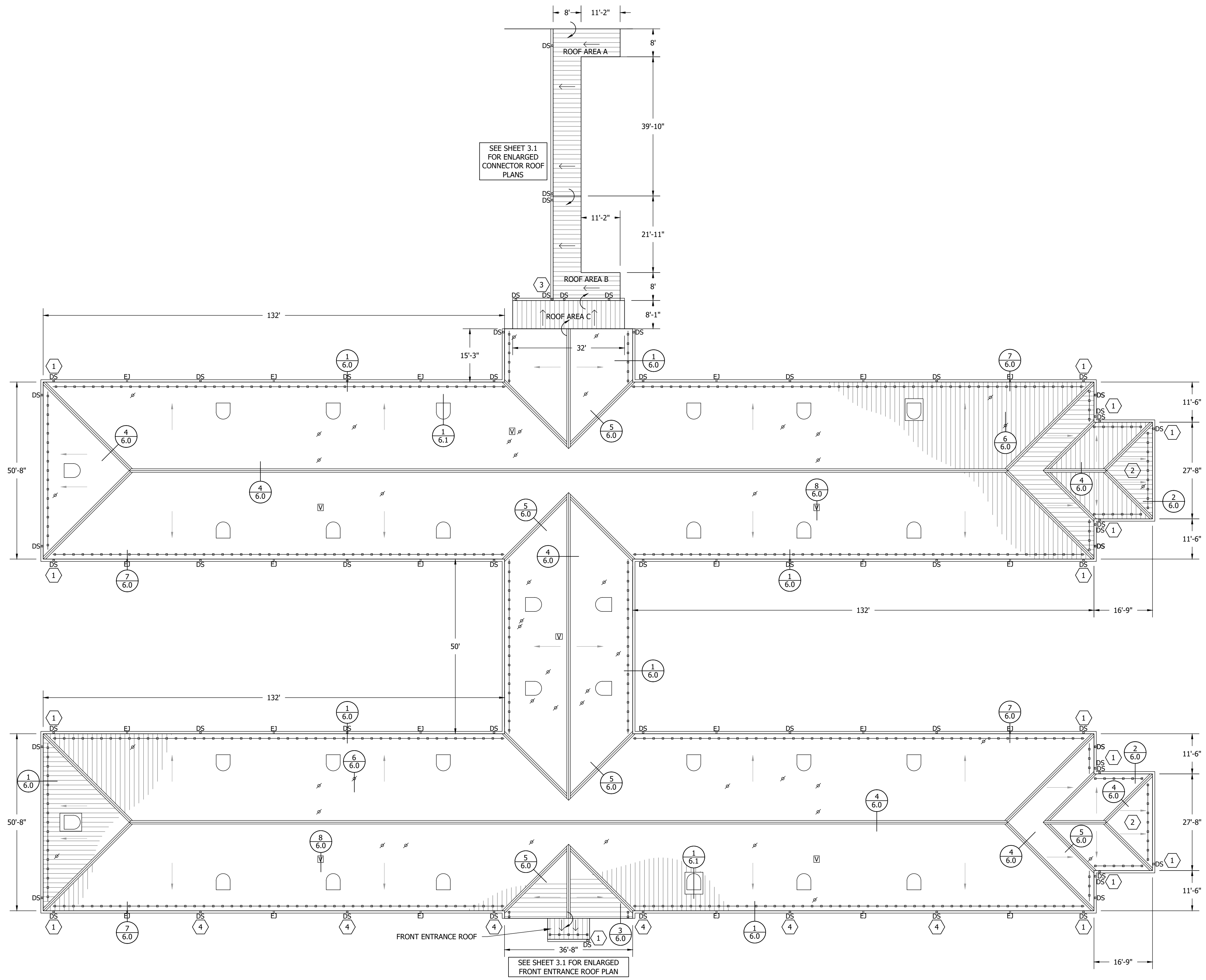
**NEW ROOF FRAMING PLAN - KENDALL BUILDING**  
 KENDALL BUILDING ROOF REPLACEMENT  
 CASWELL DEVELOPMENTAL CENTER, KINSTON, NC  
 SCO ID#: 22-25783-01B; CODE:42240; ITEM:429074

No.	REVISION	By	Date

DRAWN BY: TJF  
 ENGINEER: KEW  
 APPROVAL: KEW  
 DATE: FEB 2025  
 PROJ: J2811 SCALE: AS SHOWN  
 DWG. NO.

2.0





PLAN NORTH  
 1 NEW ROOF PLAN - KENDALL BUILDING  
 2.1 SCALE: 1/16" = 1'-0"

**LEGEND**

	STANDING SEAM METAL ROOF PANELS (PANEL RIBS @ 16" O.C. TYP.)		PIPE VENT (PLACE SECTION OF SNOW GUARD UPSLOPE OF EACH PIPE VENT - NOT SHOWN)
	EAVE W/ GUTTER, DOWNSPOUT, AND GUTTER EXPANSION JOINT		NEW HALF-ROUND LOUVERED VENT W/ INTEGRAL FLAT CURB
	RAKE EDGE W/ PERIMETER METAL		CHANGE IN ELEVATION
	VENTED RIDGE, HIP, OR VALLEY FLASHING		KEYED NOTE
	NON-PENETRATING SNOW GUARD		DETAIL CALLOUT (DETAIL X ON SHEET X.X)
	EXISTING 6:12 ROOF SLOPE AT MAIN BUILDING (TO BE MAINTAINED BY RETROFIT STRUCTURE)		
	NEW 1:12 ROOF SLOPE AT FRONT ENTRANCE ROOF AND ROOF AREAS A, B, AND C (PROVIDED BY NEW RETROFIT STRUCTURE)		
	LOW PROFILE VENT (REPLACE W/ NEW)		

**NOTES TO KENDALL BUILDING ROOF PLAN:**

- THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING. 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 TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF WORK AT THE ROOFS 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.
- THE EXISTING ROOFING SYSTEM(S) AT THE KENDALL BUILDING ROOFS ARE AS FOLLOWS:  
 3.1. MAIN ROOF AREA: A GRANULAR-SURFACED ASPHALT SHINGLE ROOF SYSTEM OVER UNDERLAYMENT AND A 2" THICK NAILABLE CONCRETE TONGUE AND GROOVE PLANK DECK SUPPORTED BY STEEL STRUCTURE OVER A VENTED ATTIC SPACE. MINOR DIFFERENCES IN THE DECK MAY BE PRESENT AT MECHANICAL ROOM ADDITIONS. THE ROOF SLOPE IS APPROXIMATELY 6:12 AND IS PROVIDED BY THE STRUCTURE. ROOF CONSTRUCTION WAS OBSERVED AT REPRESENTATIVE AREAS. **GROUT AT JOINTS IN THE PLANK DECK (MAINLY AT RIDGE/VALLEY JOINTS) CONTAINS ASBESTOS. REFER TO 2/1.0 FOR WORK PLAN FOR ATTIC PREPARATION AND PROTECTION.**
- THE BASE BID SCOPE OF WORK FOR THE MAIN ROOF AREA AT KENDALL BUILDING IS AS FOLLOWS:  
 4.1. INSTALL PROTECTION MATERIALS WITHIN THE ATTIC SPACES BENEATH THE ROOF DECK AREAS TO BE DISTURBED IN EACH DESIGNATED WORK AREA PRIOR TO THE START OF ROOF REPLACEMENT. PROVIDE AND SETUP NEGATIVE AIR PRESSURIZATION EQUIPMENT AND ASSOCIATED MATERIALS DURING WORK. COORDINATE AND COOPERATE WITH THE ASBESTOS CONSULTANT DURING WORK TO ALLOW FOR INITIAL AND FINAL AIR MONITORING IN EACH WORK AREA.  
 4.2. REMOVE THE EXISTING DOWNSPOUTS, GUTTER, AND SHEETMETAL FLASHINGS AT THE PERIMETER.  
 4.3. INSTALL NEW RETROFIT FRAMING AND A STANDING SEAM METAL ROOF SYSTEM WITH ASSOCIATED PREPARATION AND PROTECTION OF WORK AREAS WITHIN THE ATTIC SPACE BELOW AS SPECIFIED IN THE DESIGN DETAILS AND PROJECT MANUAL.  
 4.4. INSTALL NEW PERIMETER SHEETMETAL, GUTTERS, DOWNSPOUTS, LOUVERED DORMERS, SNOW GUARD, AND OTHER ACCESSORY WORK AS SPECIFIED IN THE DESIGN DETAILS AND PROJECT MANUAL.  
 4.5. REMOVE THE EXISTING SHEETMETAL DORMERS AND INSTALL NEW SPECIALTY FABRICATED DORMERS WITH SKIRT/CURB DESIGNED FOR INSTALLATION IN THE NEW STANDING SEAM METAL ROOF SYSTEM.
- INSTALL A NEW RETROFIT SUBSTRUCTURE TO SUPPORT THE NEW STANDING SEAM METAL ROOF SYSTEM. REFER TO SHEET A1.0 AND A2.0 FOR ADDITIONAL INFORMATION.
- INSTALL NEW PRE-FINISHED STANDING SEAM METAL ROOF PANELS SECURE TO THE PURLINS WITH FLOATING CLIPS. STANDING SEAM PANEL RIBS SHALL BE MECHANICALLY SEALED OVER THE CLIPS ALONG THE PANEL LENGTH. INSTALL ACCESSORY SUPPORTS, FLASHINGS, TRIM, FASTENERS, AND SEALANTS AS NEEDED FOR PROPER AND COMPLETE INSTALLATION OF THE WARRANTED ROOF SYSTEM. REMOVE AND DISPOSE OF EXISTING LOW-PROFILE VENTS, AND CURBS/DORMERS THAT CONFLICT WITH NEW INSTALLATION. INSTALL NEW PRE-FABRICATED CURBS, NEW VENTS WITH FLAT PAN CURB, NEW HALF-ROUND DORMER CURBS WITH LOUVERS, AND NON-PENETRATING SNOW GUARDS. EXTEND PIPE VENTS, DUCTWORK, AND OTHER ASSOCIATED M.E.P. AS NEEDED FOR PROPER OPERATION OF EQUIPMENT/VENTS.
- INSTALL PERIMETER TRIM, VALLEY TRIM, HIP TRIM, VENTED RIDGE TRIM, WALL PANELS, GUTTERS, AND DOWNSPOUTS ALONG THE METAL ROOF PERIMETER. NEW DOWNSPOUTS WILL EITHER DISCHARGE ONTO THE GROUND OR CONNECT TO EXISTING UNDERGROUND DRAINAGE LINES TO MATCH THE DISCHARGE CONDITION OF THE EXISTING DOWNSPOUTS BEING REPLACED. NEW DOWNSPOUTS SHALL DISCHARGE ON TO GRADE. EXISTING TRANSITION BOOTS WILL BE CLEANED AND PAINTED. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY DAMAGED/CORRODED TRANSITION BOOTS WITH AN EXISTING BOOT FROM A LESS VISIBLE ELEVATION (EXACT REPLACEMENT LOCATION TO BE CONFIRMED WITH THE DESIGNER).
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS PRIOR TO ORDERING, FABRICATING, AND INSTALLING ROOFING AND SHEETMETAL COMPONENTS.
- COORDINATE ALL REQUIRED MANUFACTURER INSPECTIONS OF THE EXISTING ROOF SYSTEM INCLUDING, BUT NOT LIMITED TO, FASTENER PULL TESTING, ADDITIONAL SECUREMENT, ETC. ALLOW FOR OWNER AND DESIGNER TO BE PRESENT DURING TESTING/INSPECTION.
- COMPONENTS IN DETAILS SHALL BE ASSUMED TO BE NEW UNLESS LISTED AS EXISTING.
- KEYED NOTES ARE PROVIDED TO ASSIST THE CONTRACTOR IN GENERALLY LOCATING SUPPLEMENTAL WORK SCOPE, BUT MAY NOT IDENTIFY EVERY LOCATION A CONDITION EXISTS. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE WRITTEN SCOPE OF WORK AND VISITING THE SITE TO CONFIRM EXISTING CONDITIONS FOR THE PURPOSE OF BIDDING AND CONSTRUCTION.
- 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 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.
- NO INTERRUPTION OF UTILITIES MAY OCCUR UNLESS AGREED UPON IN ADVANCE WITH THE OWNER. LOCATE THESE FEATURES TO ALLOW FOR PROTECTION DURING THE WORK AND IDENTIFY ITEMS THAT WILL REQUIRE TEMPORARY DISRUPTION TO ALLOW FOR COORDINATION WITH THE OWNER.
- FOLLOW ALL SPECIFIC REQUIREMENTS OF CASWELL DEVELOPMENTAL CENTER TO ENSURE THE SAFETY OF THE BUILDING OCCUPANTS DURING CONSTRUCTION INCLUDING SECUREMENT AND SUPERVISION OF ALL LADDERS, TOOLS, EQUIPMENT, VEHICLES, AND STORED MATERIALS. PROVIDE FENCING AROUND STAGING AND STORAGE AREAS. THE CONTRACTOR MAY REQUIRE AN ESCORT TO ENTER THE BUILDING TO ACCESS THE ATTIC SPACE FOR ASBESTOS PROTECTION AND MONITORING.

**KEYED NOTES:**

- INSTALL NEW DOWNSPOUTS WHERE MARKED ON THE ROOF PLAN. RECONNECT TO EXISTING TRANSITION BOOT OR DISCHARGE WITH A 45° KICK.
- REMOVE AND DISPOSE OF EXISTING LOUVERED DORMERS AT BUILDING ADDITIONS, AS MARKED ON THE DRAWINGS. COVER WITH A PIECE OF SHEETMETAL AND TEMPORARY PROTECTION AT RESULTING OPENING TO MAINTAIN A WATERTIGHT CONDITION UNTIL NEW METAL ROOF PANELS ARE INSTALLED IN THIS LOCATION.
- AT DOWNSPOUT LOCATION, PROVIDE A HORIZONTAL DOWNSPOUT EXTENSION SO THAT NEW DOWNSPOUT DISCHARGES INTO EXISTING CONCRETE SWELL AT WEST SIDE OF BUILDING.
- AT EACH DOWNSPOUT LOCATION, CUT AN 8" TALL OPENING IN THE FRONT FACE OF THE DOWNSPOUT JUST ABOVE THE EXISTING CAST IRON DOWNSPOUT BOOT TO REMAIN. HEM EACH CUT EDGE. INSTALL A PRE-FINISHED COVER OVER THE OPENING THAT COVERS THE ENTIRE OPENING AND SECURE COVER TO SIDES OF DOWNSPOUT WITH REMOVABLE FASTENERS.



**NEW ROOF PLAN - KENDALL BUILDING**

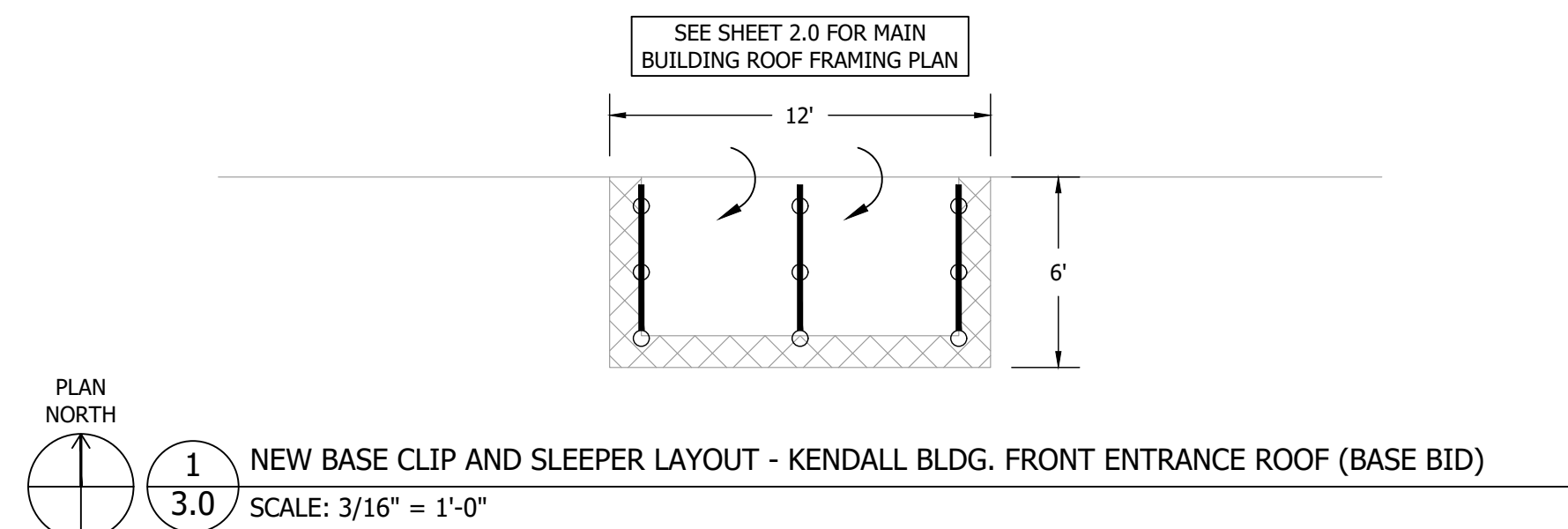
KENDALL BUILDING ROOF REPLACEMENT  
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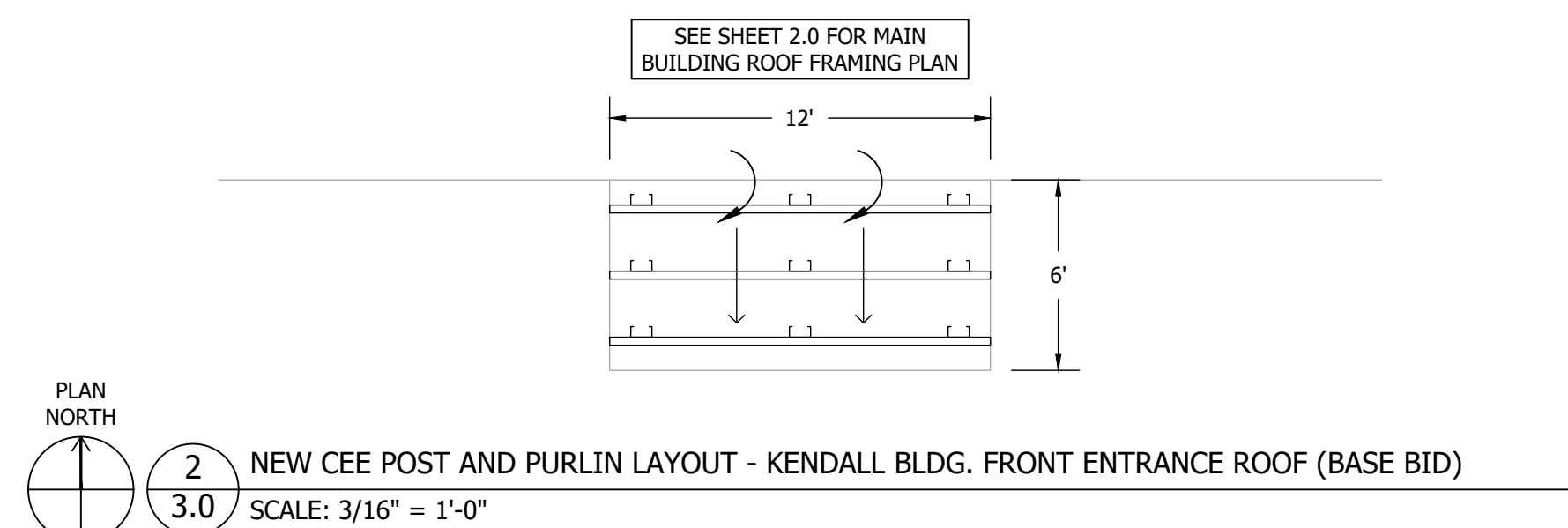
DRAWN BY: TJF  
 ENGINEER: KEW  
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 DATE: FEB 2025  
 PROJ.: J2811 SCALE: AS SHOWN  
 DWG. NO.

2.1





1  
3.0 NEW BASE CLIP AND SLEEPER LAYOUT - KENDALL BLDG. FRONT ENTRANCE ROOF (BASE BID)  
SCALE: 3/16" = 1'-0"



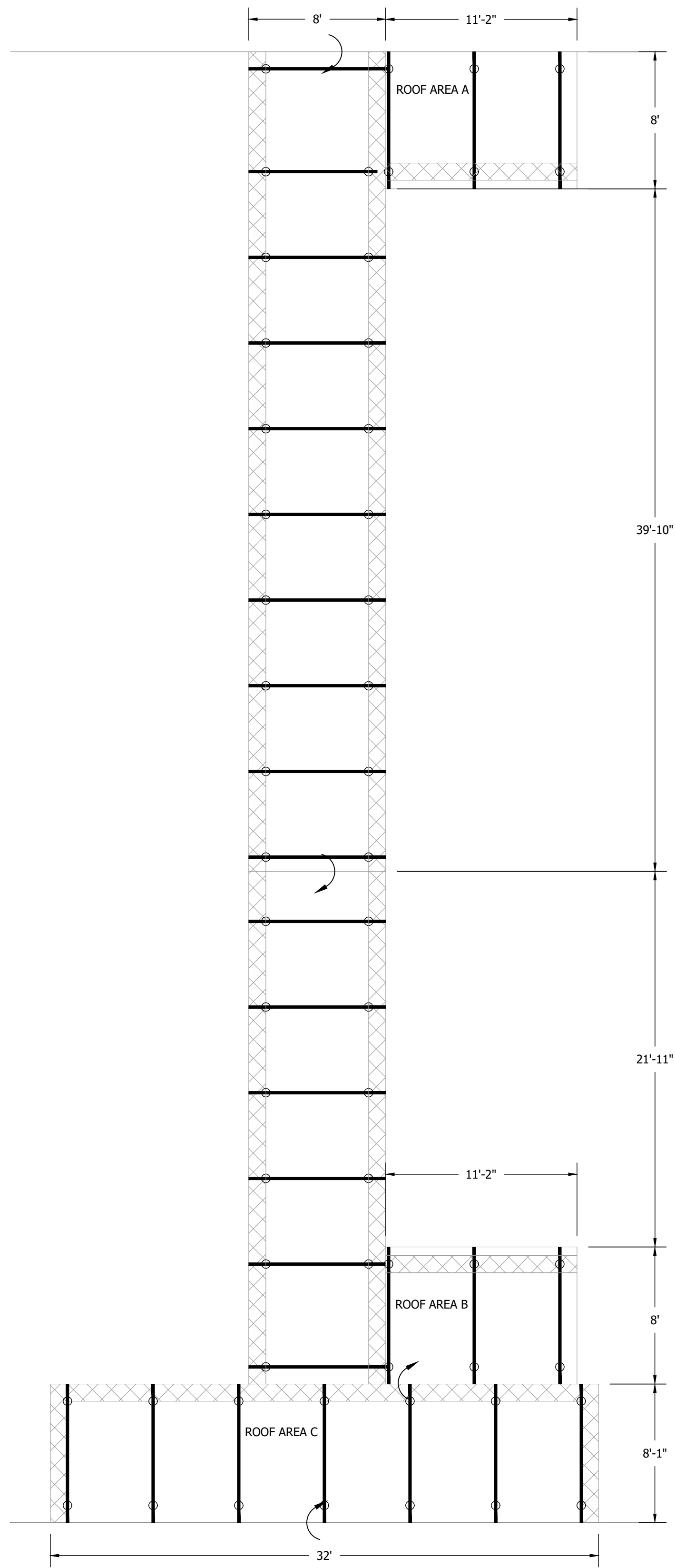
2  
3.0 NEW CEE POST AND PURLIN LAYOUT - KENDALL BLDG. FRONT ENTRANCE ROOF (BASE BID)  
SCALE: 3/16" = 1'-0"

**LEGEND**

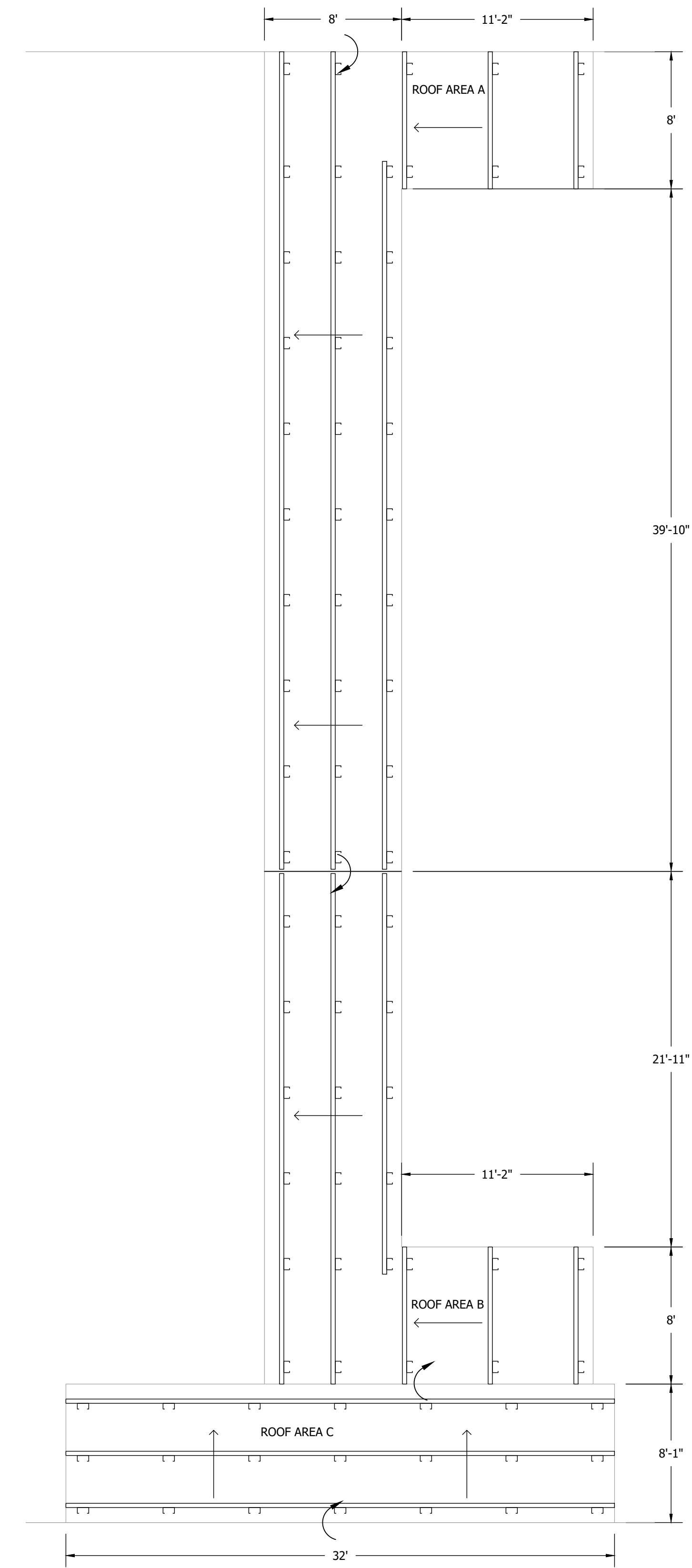
- EXISTING EXTERIOR MASONRY WALL (FIELD VERIFY)
- EXISTING ROOF PERIMETER
- NEW 1:12 ROOF SLOPE AT FRONT ENTRANCE ROOF AND ROOF AREAS A, B, AND C (PROVIDED BY NEW RETROFIT STRUCTURE)
- SLEEPER PURLIN SUPPORTED BY BASE CLIP SECURED THROUGH EXISTING ROOF DECK TO EXISTING CONCRETE/MASONRY STRUCTURE. SLEEPER PURLINS @ APPROX. 5' O.C. SPACING
- PURLIN SUPPORTED BY CEE SHAPED POSTS SECURED TO SLEEPER PURLINS. HEIGHT OF POSTS AND PURLINS SHALL PROVIDE APPROX. 1:12 SLOPE
- CHANGE IN ELEVATION

**NOTES TO NEW ROOF FRAMING PLAN AT FRONT ENTRANCE ROOF AND CONNECTOR ROOFS:**

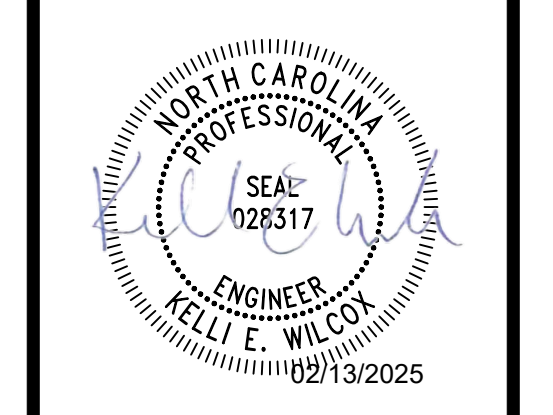
1. THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING. PRIOR TO THE START OF WORK, PERFORM A PRE-JOB DAMAGE SURVEY IN ACCORDANCE WITH THE PROJECT MANUAL.
2. THIS DRAWING IS PROVIDED TO COMMUNICATE DESIGN INTENT FOR ROOF REPLACEMENT AND TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF WORK AT THE ROOFS 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.
3. THE EXISTING ROOFING SYSTEM(S) AT THE KENDALL BUILDING ROOFS ARE AS FOLLOWS:
  - 3.1. CONNECTOR ROOFS (ROOF AREAS A, B, AND C): AN EPDM MEMBRANE ROOF SYSTEM WITH TAPERED POLYISOCYANURATE INSULATION (MAX. 2.5" THICKNESS) AND A BITUMINOUS VAPOR BARRIER ON A CONCRETE DECK.
  - 3.2. FRONT ENTRANCE ROOF: AN EPDM MEMBRANE ROOF SYSTEM WITH TAPERED WOOD FIBER INSULATION (MAX 2" THICKNESS) ON A CONCRETE DECK.
4. THE BASE BID SCOPE OF WORK FOR ROOF AREAS A, B, AND C AND THE FRONT ENTRANCE ROOF IS AS FOLLOWS:
  - 4.1. REMOVE THE EXISTING EPDM MEMBRANE ROOF SYSTEMS AND ANY ASSOCIATED BLOCKING, ETC. DOWN TO THE EXISTING CONCRETE ROOF DECKS.
  - 4.2. REMOVE THE EXISTING DOWNSPOUTS, GUTTER, AND SHEETMETAL FLASHINGS AT THE PERIMETER.
  - 4.3. INSPECT EXISTING CONCRETE ROOF DECK AND MAKE REPAIRS WHERE DETERIORATED TO ENSURE ADEQUATE SUBSTRATE FOR INSTALLATION OF THE NEW ROOF SYSTEMS. AN ESTIMATED QUANTITY OF DECK REPAIR IS INCLUDED IN THE BASE BID. IF THE EXISTING VAPOR BARRIER ON TOP OF THE CONCRETE DECK IS IN GOOD CONDITION (NOT DELAMINATED), IT MAY REMAIN IN PLACE. LOOSE OR DELAMINATED VAPOR BARRIER MUST BE REMOVED.
  - 4.4. INSTALL A TEMPORARY ROOF MEMBRANE OVER THE EXPOSED CONCRETE ROOF DECK TO MAINTAIN A TEMPORARY WATERTIGHT CONDITION.
  - 4.5. INSTALL NEW RETROFIT FRAMING AND A STANDING SEAM METAL ROOF SYSTEM AS SPECIFIED IN THE DESIGN DETAILS AND PROJECT MANUAL.
  - 4.6. INSTALL NEW PERIMETER SHEETMETAL, GUTTERS, DOWNSPOUTS, WALL PANELS, AND OTHER ACCESSORY WORK AS SPECIFIED IN THE DESIGN DETAILS AND PROJECT MANUAL.
  - 4.7. COORDINATE TO COVER EXISTING WINDOW AT NORTH END OF ROOF AREA A WITH NEW WALL PANELS, PAINT/COVER WINDOW GLASS FROM EXTERIOR.
5. REMOVE AND DISPOSE OF THE EXISTING EPDM MEMBRANE ROOF SYSTEMS AT EACH ROOF AREA DOWN TO THE EXISTING CONCRETE ROOF DECKS. 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. REMOVE ALL FLASHINGS, METAL TRIM, AND ACCESSORIES TO ALLOW FOR NEW SYSTEM INSTALLATION AS SHOWN.
6. INSPECT EXISTING WOOD BLOCKING AS IT IS EXPOSED DURING ROOF DEMOLITION. REMOVE BLOCKING NOT REQUIRED FOR USE IN THE NEW ROOF SYSTEM. IF INTENDED FOR REUSE, MAKE REPAIRS TO ANY DAMAGED MATERIALS AS NEEDED TO PROVIDE AN ACCEPTABLE SUBSTRATE FOR INSTALLATION OF THE NEW EPDM MEMBRANE.
7. INSTALL A EPDM MEMBRANE OVER THE EXISTING ROOF DECK AND SECURE AROUND PERIMETERS. MEMBRANE SYSTEM SHALL ACT AS A TEMPORARY ROOF SYSTEM TO MAINTAIN THE ROOF IN A WATERTIGHT CONDITION DURING INSTALLATION OF THE RETROFIT ROOF SYSTEM AND STANDING SEAM METAL ROOF SYSTEM. MEMBRANE SHALL EITHER BE ADHERED, PERIODICALLY BALLASTED, OR SECURED WITH ANGLE CLIPS/SHOES TO ADEQUATELY RESIST WIND UPLIFT UNTIL THE RETROFIT FRAMING SYSTEM IS INSTALLED. ALL PENETRATIONS MADE THROUGH THE TEMPORARY MEMBRANE MUST BE MAINTAINED IN A WATERTIGHT CONDITION.
8. INSTALL A NEW RETROFIT SUBSTRUCTURE TO SUPPORT THE NEW STANDING SEAM METAL ROOF SYSTEM. INSTALL NEW BASE CLIPS/SHOES SECURED THROUGH THE NEW EPDM MEMBRANE INTO THE EXISTING MASONRY WALLS AND CONCRETE STRUCTURE TO PROVIDE ATTACHMENT POINTS FOR THE NEW RETROFIT SLEEPER PURLINS. INSTALL POSTS SECURED TO NEW SLEEPER PURLINS AND PURLINS SECURED TO EACH POST TO PROVIDE A 1:12 ROOF SLOPE IN THE DIRECTION AS SHOWN ON THE DESIGN DRAWINGS. INSTALL KICKERS, RAKE/EAVE ANGLES, OFFSET CLEATS, STRAPPING, BRACING, ANGLES, AND OTHER COMPONENTS WHETHER LISTED/SHOWN OR NOT AS REQUIRED FOR PROPER INSTALLATION OF THE NEW FRAMING SYSTEM IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND REQUIRED SHOP DRAWINGS AND CALCULATIONS BY THE ROOF SYSTEM MANUFACTURER AND SEALED BY A NORTH CAROLINA PROFESSIONAL ENGINEER. PERFORM FASTENER PULL TESTING TO CONFIRM ADEQUATE WIND UPLIFT RESISTANCE OF CONNECTION TO THE EXISTING STRUCTURAL MEMBERS (MASONRY WALLS, CONCRETE STRUCTURE AND REMAINING PERIMETER WOOD BLOCKING). ALL PENETRATIONS MADE THROUGH THE NEW EPDM MEMBRANE MUST BE MAINTAINED IN A WATERTIGHT CONDITION.
9. INSTALL NEW PRE-FINISHED STANDING SEAM METAL ROOF PANELS SECURE TO THE PURLINS WITH FLOATING CLIPS. REFER TO SHEET 3.1 FOR ADDITIONAL INFORMATION. REMOVE AND DISPOSE OF EXISTING LOW-PROFILE VENTS, AND CURBS/DORMERS THAT CONFLICT WITH NEW INSTALLATION. INSTALL NEW PRE-FABRICATED CURBS, NEW VENTS WITH FLAT PAN CURBS, NEW HALF-ROUND DORMER CURBS WITH LOUVERS, AND ALL ASSOCIATED SUPPLEMENTAL FRAMING REQUIRED FOR PROPER SUPPORT OF THE PENETRATION CURBS AND FLASHINGS.
10. 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 MAINTAINING 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, THE CONTRACTOR IS RESPONSIBLE FOR MAKING REPAIRS/REPLACEMENT AS NECESSARY TO RETURN THE DAMAGE ITEM/FINISH/SYSTEM TO THE CONDITION IT WAS IN PRIOR TO DAMAGE.
11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE STORAGE AND STAGING AREA(S) SHOWN OR OTHER AREAS ACCESSED FOR THE PURPOSE OF CONSTRUCTION. COORDINATE AREAS WITH THE OWNER TO CONFIRM ACCEPTABILITY. AREAS USED FOR CONSTRUCTION MUST BE RETURNED TO THEIR ORIGINAL CONDITION AT THE END OF THE PROJECT. NO INTERRUPTION OF UTILITIES MAY OCCUR UNLESS AGREED UPON IN ADVANCE WITH THE OWNER. ELECTRICAL SERVICES, WIRES, EQUIPMENT, UTILITIES, STORM DRAIN LINES, ETC. MAY EXIST WITHIN OR DIRECTLY ADJACENT TO THE PROPOSED STORAGE AND STAGING AREA AND ROOF ACCESS POINT(S). LOCATE, MARK, AND PROTECT THESE FEATURES TO ALLOW FOR PROTECTION DURING THE WORK AND IDENTIFY ITEMS THAT WILL REQUIRE TEMPORARY DISRUPTION TO ALLOW FOR COORDINATION WITH THE OWNER. MAINTAIN SAFE INGRESS AND EGRESS FROM THE BUILDING AND DO NOT BLOCK VEHICULAR OR PEDESTRIAN ACCESS TO THE BUILDING WITHOUT ADVANCE COORDINATION WITH THE OWNER.
12. FOLLOW ALL SPECIFIC REQUIREMENTS OF CASWELL DEVELOPMENTAL CENTER TO ENSURE THE SAFETY OF THE BUILDING OCCUPANTS DURING CONSTRUCTION INCLUDING SECUREMENT AND SUPERVISION OF ALL LADDERS, TOOLS, EQUIPMENT, VEHICLES, AND STORED MATERIALS. PROVIDE FENCING AROUND STAGING AND STORAGE AREAS. THE CONTRACTOR MAY REQUIRE AN ESCORT TO ENTER THE BUILDING TO ACCESS THE ATTIC SPACE FOR ASBESTOS PROTECTION AND MONITORING.



3  
3.0 NEW BASE CLIP AND SLEEPER LAYOUT - CONNECTOR ROOFS (BASE BID)  
SCALE: 3/16" = 1'-0"



4  
3.0 NEW CEE POST AND PURLIN LAYOUT - CONNECTOR ROOFS (BASE BID)  
SCALE: 3/16" = 1'-0"

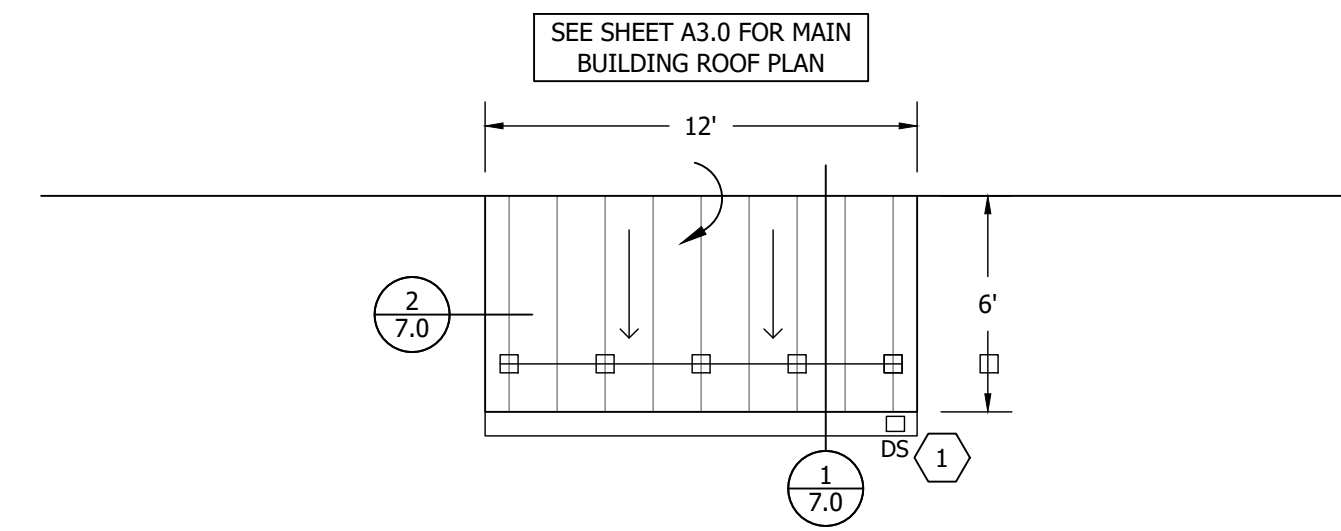


**NEW ROOF FRAMING PLANS - FRONT ENTRANCE ROOF AND CONNECTOR ROOFS**  
KENDALL BUILDING ROOF REPLACEMENT  
CASWELL DEVELOPMENTAL CENTER, KINSTON, NC  
SCO ID#: 22-25783-01B; CODE:42240; ITEM:429074

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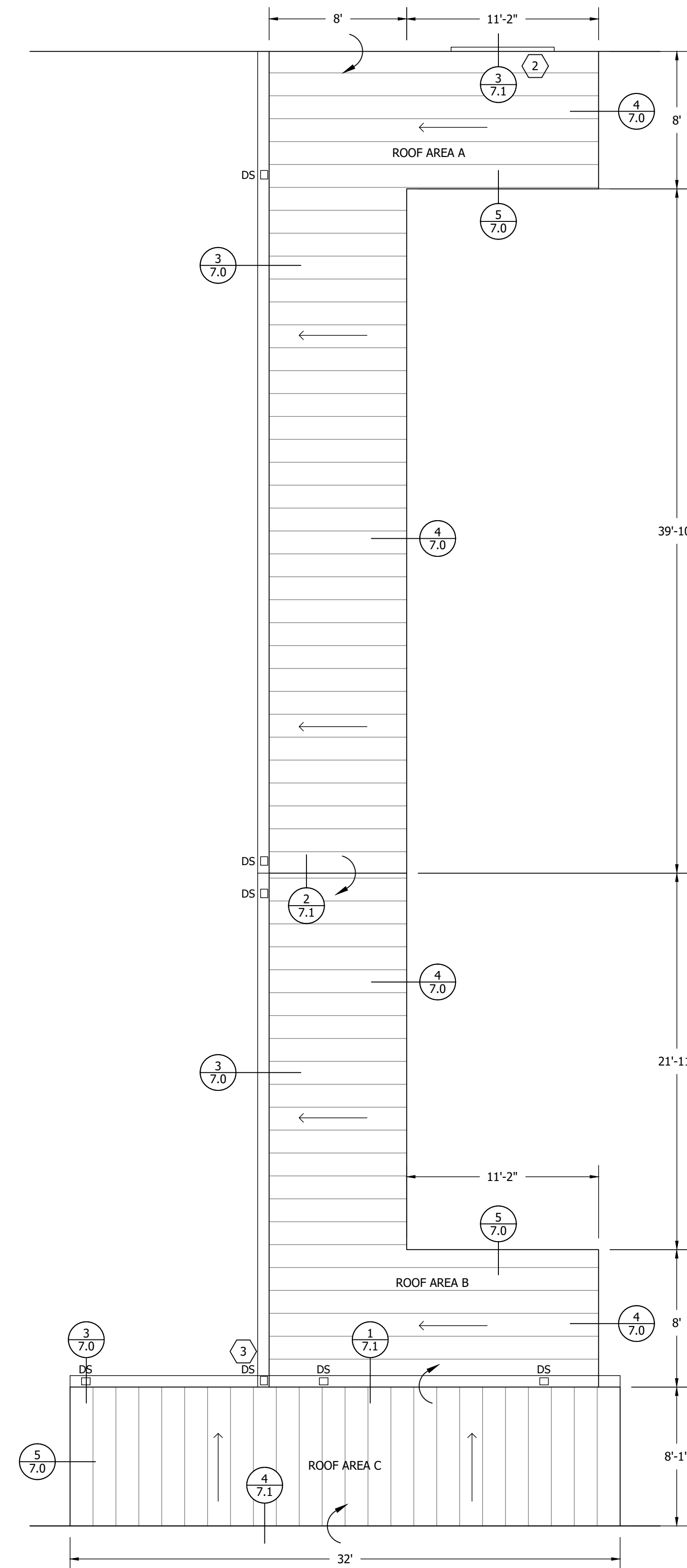
DRAWN BY: TJF  
ENGINEER: KEW  
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DATE: FEB 2025  
PROJ: J2811 SCALE: AS SHOWN  
DWG. NO.

3.0



PLAN NORTH  
**1**  
**3.1** NEW ENLARGED ROOF PLAN - KENDALL BLDG. FRONT ENTRANCE ROOF (BASE BID)  
 SCALE: 3/16" = 1'-0"

LEGEND	
	STANDING SEAM METAL ROOF PANELS (PANEL RIBS @ 16" O.C. TYP.)
	EAVE W/ GUTTER AND DOWNSPOUT
	RAKE EDGE W/ PERIMETER METAL
	NON-PENETRATING SNOW GUARD (FRONT ENTRANCE ROOF ONLY)
	NEW 1:12 ROOF SLOPE AT FRONT ENTRANCE ROOF AND ROOF AREAS A, B, AND C (PROVIDED BY NEW RETROFIT STRUCTURE)
	CHANGE IN ELEVATION
	KEYED NOTE
	DETAIL CALLOUT (DETAIL X ON SHEET X.X)



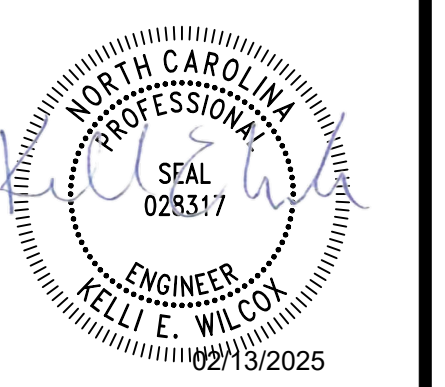
PLAN NORTH  
**2**  
**3.1** NEW ENLARGED ROOF PLAN - CONNECTOR ROOFS (BASE BID)  
 SCALE: 3/16" = 1'-0"

**NOTES TO ENLARGED ROOF PLANS AT FRONT ENTRANCE ROOF AND CONNECTOR ROOFS:**

- THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING. 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 TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF WORK AT THE ROOFS 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.
- THE EXISTING ROOFING SYSTEM(S) AT THE KENDALL BUILDING ROOFS ARE AS FOLLOWS:
  - CONNECTOR ROOFS (ROOF AREAS A, B, AND C): AN EPDM MEMBRANE ROOF SYSTEM WITH TAPERED POLYISOCYANURATE INSULATION (MAX. 2.5" THICKNESS) AND A BITUMINOUS VAPOR BARRIER ON A CONCRETE DECK.
  - FRONT ENTRANCE ROOF: AN EPDM MEMBRANE ROOF SYSTEM WITH TAPERED WOOD FIBER INSULATION (MAX 2" THICKNESS) ON A CONCRETE DECK.
- THE BASE BID SCOPE OF WORK FOR ROOF AREAS A, B, AND C AND THE FRONT ENTRANCE ROOF IS AS FOLLOWS:
  - REMOVE THE EXISTING EPDM MEMBRANE ROOF SYSTEMS AND ANY ASSOCIATED BLOCKING, ETC. DOWN TO THE EXISTING CONCRETE ROOF DECKS.
  - REMOVE THE EXISTING DOWNSPOUTS, GUTTER, AND SHEETMETAL FLASHINGS AT THE PERIMETER.
  - INSPECT EXISTING CONCRETE ROOF DECK AND MAKE REPAIRS WHERE DETERIORATED TO ENSURE ADEQUATE SUBSTRATE FOR INSTALLATION OF THE NEW ROOF SYSTEMS. AN ESTIMATED QUANTITY OF DECK REPAIR IS INCLUDED IN THE BASE BID. IF THE EXISTING VAPOR BARRIER ON TOP OF THE CONCRETE DECK IS IN GOOD CONDITION (NOT DELAMINATED), IT MAY REMAIN IN PLACE. LOOSE OR DELAMINATED VAPOR BARRIER MUST BE REMOVED.
  - INSTALL A TEMPORARY ROOF MEMBRANE OVER THE EXPOSED CONCRETE ROOF DECK TO MAINTAIN A TEMPORARY WATERTIGHT CONDITION.
  - INSTALL NEW RETROFIT FRAMING AND A STANDING SEAM METAL ROOF SYSTEM AS SPECIFIED IN THE DESIGN DETAILS AND PROJECT MANUAL.
  - INSTALL NEW PERIMETER SHEETMETAL, GUTTERS, DOWNSPOUTS, WALL PANELS, AND OTHER ACCESSORY WORK AS SPECIFIED IN THE DESIGN DETAILS AND PROJECT MANUAL.
  - COORDINATE TO COVER EXISTING WINDOW AT NORTH END OF ROOF AREA A WITH NEW WALL PANELS. PAINT/COVER WINDOW GLASS FROM EXTERIOR.
- REMOVE THE EXISTING EPDM MEMBRANE DOWN TO THE EXISTING CONCRETE ROOF DECKS. INSTALL A NEW EPDM MEMBRANE OVER THE EXPOSED CONCRETE DECK TO MAINTAIN A WATERTIGHT CONDITION DURING CONSTRUCTION. REFER TO SHEET 3.0 FOR ADDITIONAL INFORMATION.
- INSTALL A NEW RETROFIT SUBSTRUCTURE TO SUPPORT THE NEW STANDING SEAM METAL ROOF SYSTEM. REFER TO SHEET 3.0 FOR ADDITIONAL INFORMATION.
- INSTALL NEW PRE-FINISHED STANDING SEAM METAL ROOF PANELS SECURE TO THE PURLINS WITH FLOATING CLIPS. STANDING SEAM PANEL RIBS SHALL BE MECHANICALLY SEALED OVER THE CLIPS ALONG THE PANEL LENGTH. INSTALL ACCESSORY SUPPORTS, FLASHINGS, TRIM, FASTENERS, AND SEALANTS AS NEEDED FOR PROPER AND COMPLETE INSTALLATION OF THE WARRANTED ROOF SYSTEM.
- INSTALL PERIMETER TRIM, VALLEY TRIM, HIP TRIM, VENTED RIDGE TRIM, WALL PANELS, GUTTERS, AND DOWNSPOUTS ALONG THE METAL ROOF PERIMETER. NEW DOWNSPOUTS WILL EITHER DISCHARGE ONTO THE GROUND OR CONNECT TO EXISTING UNDERGROUND DRAINAGE LINES TO MATCH THE DISCHARGE CONDITION OF THE EXISTING DOWNSPOUTS BEING REPLACED. NEW DOWNSPOUTS SHALL DISCHARGE ON TO GRADE. EXISTING TRANSITION BOOTS WILL BE CLEANED AND PAINTED. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY DAMAGED/CORRODED TRANSITION BOOTS WITH AN EXISTING BOOT FROM A LESS VISIBLE ELEVATION (EXACT REPLACEMENT LOCATION TO BE CONFIRMED WITH THE DESIGNER).
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS PRIOR TO ORDERING, FABRICATING, AND INSTALLING ROOFING AND SHEETMETAL COMPONENTS.
- COORDINATE ALL REQUIRED MANUFACTURER INSPECTIONS OF THE EXISTING ROOF SYSTEM INCLUDING, BUT NOT LIMITED TO, FASTENER PULL TESTING, ADDITIONAL SECUREMENT, ETC. ALLOW FOR OWNER AND DESIGNER TO BE PRESENT DURING TESTING/INSPECTION.
- COMPONENTS IN DETAILS SHALL BE ASSUMED TO BE NEW UNLESS LISTED AS EXISTING.
- KEYED NOTES ARE PROVIDED TO ASSIST THE CONTRACTOR IN GENERALLY LOCATING SUPPLEMENTAL WORK SCOPE, BUT MAY NOT IDENTIFY EVERY LOCATION A CONDITION EXISTS. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE WRITTEN SCOPE OF WORK AND VISITING THE SITE TO CONFIRM EXISTING CONDITIONS FOR THE PURPOSE OF BIDDING AND CONSTRUCTION.
- 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 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.
- NO INTERRUPTION OF UTILITIES MAY OCCUR UNLESS AGREED UPON IN ADVANCE WITH THE OWNER. LOCATED THESE FEATURES TO ALLOW FOR PROTECTION DURING THE WORK AND IDENTIFY ITEMS THAT WILL REQUIRE TEMPORARY DISRUPTION TO ALLOW FOR COORDINATION WITH THE OWNER.
- FOLLOW ALL SPECIFIC REQUIREMENTS OF CASWELL DEVELOPMENTAL CENTER TO ENSURE THE SAFETY OF THE BUILDING OCCUPANTS DURING CONSTRUCTION INCLUDING SECUREMENT AND SUPERVISION OF ALL LADDERS, TOOLS, EQUIPMENT, VEHICLES, AND STORED MATERIALS. PROVIDE FENCING AROUND STAGING AND STORAGE AREAS. THE CONTRACTOR MAY REQUIRE AN ESCORT TO ENTER THE BUILDING TO ACCESS THE ATTIC SPACE FOR ASBESTOS PROTECTION AND MONITORING.

**KEYED NOTES:**

- INSTALL NEW DOWNSPOUTS WHERE MARKED ON THE ROOF PLAN. BOTTOM OF DOWNSPOUTS MUST KICK OUT 45°. ENSURE GRADE SLOPES AWAY FROM THE BUILDING AT DOWNSPOUTS DISCHARGING ONTO GRASS OR LANDSCAPING.
- COORDINATE TO COVER EXISTING WINDOW AT NORTH END OF ROOF AREA A WITH NEW WALL PANELS. PAINT/COVER WINDOW GLASS FROM EXTERIOR.
- AT DOWNSPOUT LOCATION, PROVIDE A HORIZONTAL DOWNSPOUT EXTENSION SO THAT NEW DOWNSPOUT DISCHARGES INTO EXISTING CONCRETE SWELL AT WEST SIDE OF BUILDING.



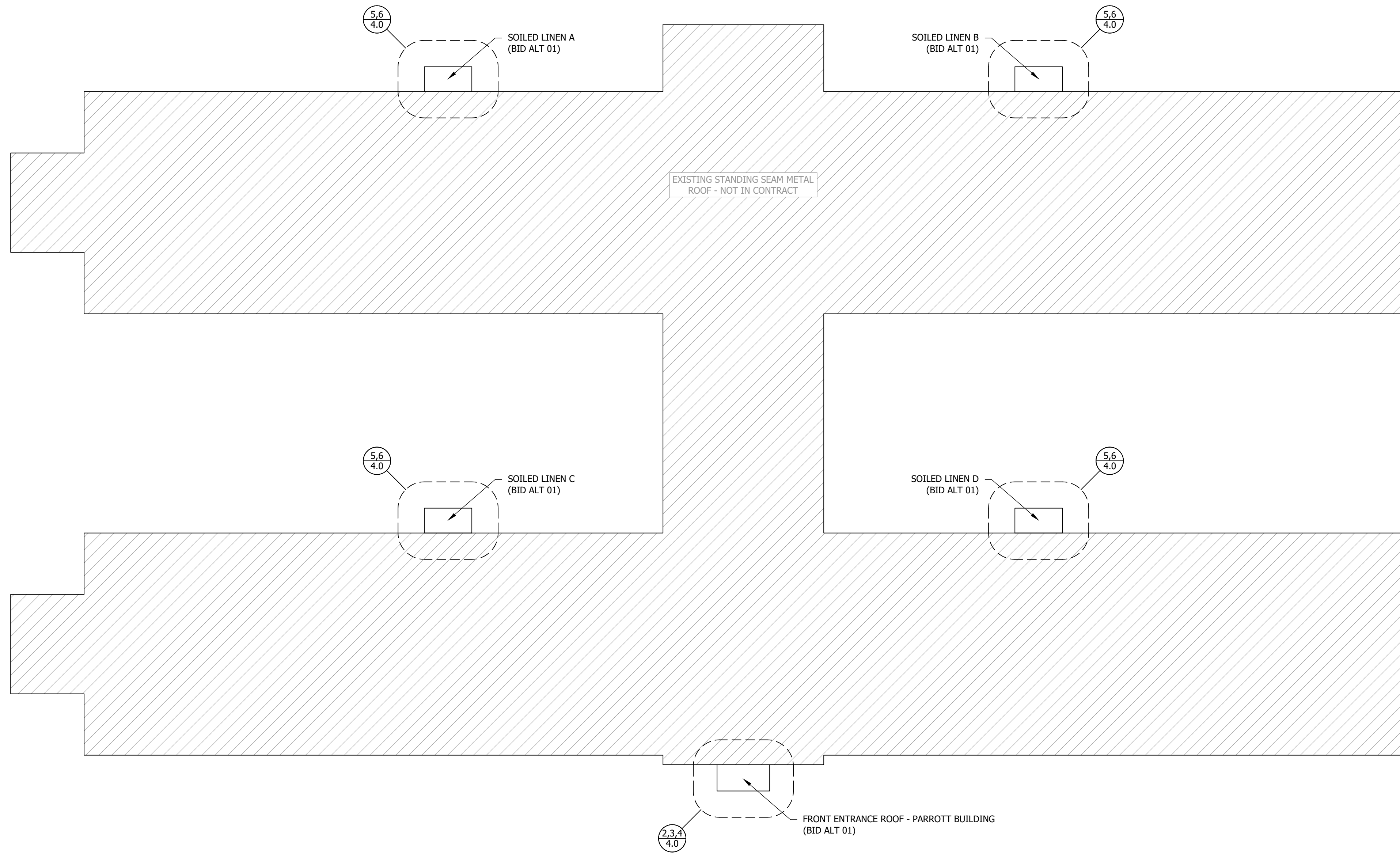
**NEW ROOF PLANS - FRONT ENTRANCE ROOF AND CONNECTOR ROOFS**  
 KENDALL BUILDING ROOF REPLACEMENT  
 CASWELL DEVELOPMENTAL CENTER, KINSTON, NC  
 SCO ID#: 22-25783-01B; CODE:42240; ITEM:429074

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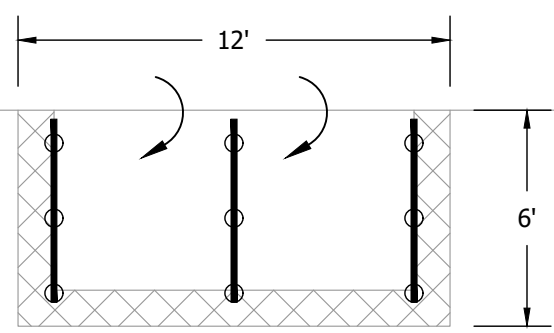
DRAWN BY: TJF  
 ENGINEER: KEW  
 APPROVAL: KEW  
 DATE: FEB 2025  
 PROJ.: J2811 SCALE: AS SHOWN  
 DWG. NO.

3.1

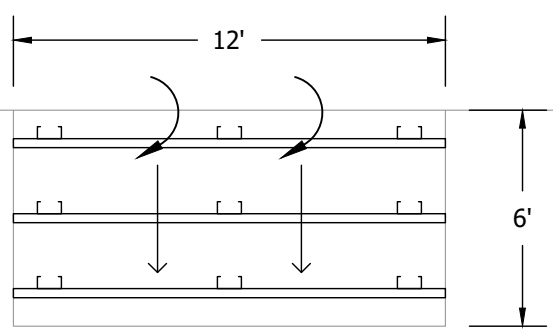




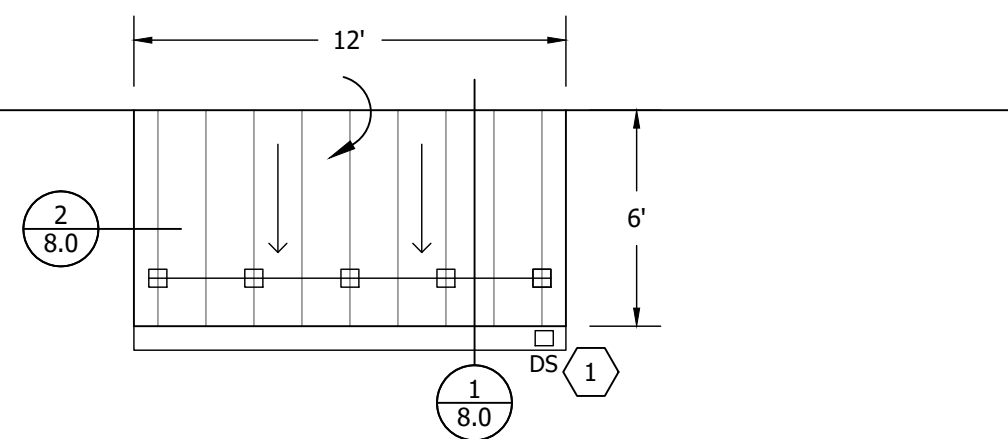
PLAN NORTH  
 1  
 4.0 EXISTING ROOF PLAN - PARROTT BUILDING  
 SCALE: 1/16" = 1'-0"



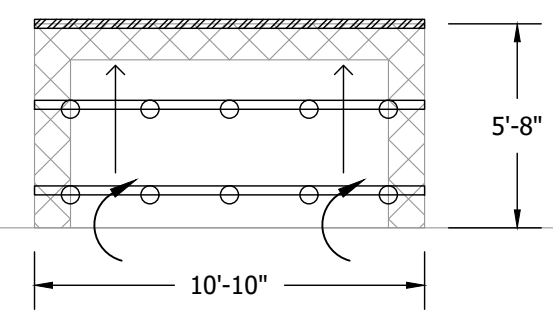
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 2  
 4.0 NEW BASE CLIP AND SLEEPER LAYOUT - FRONT ENTRANCE ROOF  
 SCALE: 3/16" = 1'-0"



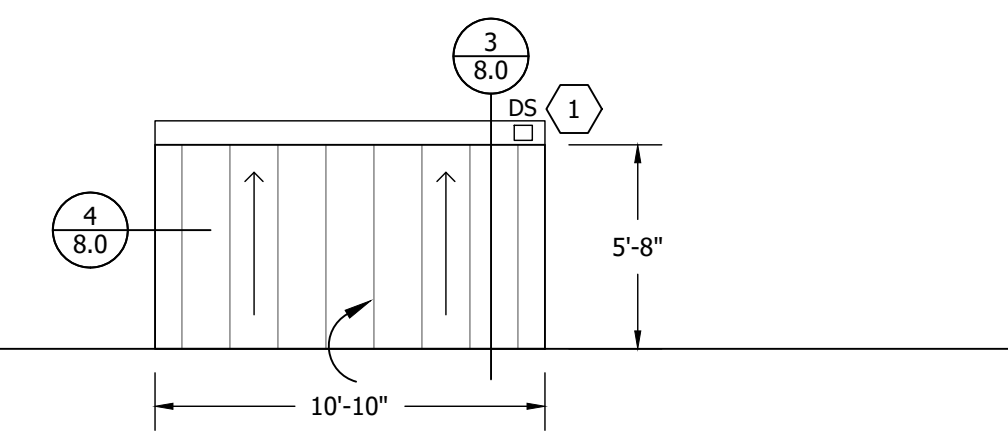
PLAN NORTH  
 3  
 4.0 NEW CEE POST AND PURLIN LAYOUT - FRONT ENTRANCE ROOF  
 SCALE: 3/16" = 1'-0"



PLAN NORTH  
 4  
 4.0 NEW ROOF PLAN - FRONT ENTRANCE ROOF  
 SCALE: 3/16" = 1'-0"



PLAN NORTH  
 5  
 4.0 NEW BASE CLIP AND PURLIN LAYOUT - SOILED LINEN ROOFS  
 SCALE: 3/16" = 1'-0"



PLAN NORTH  
 6  
 4.0 NEW ROOF PLAN - SOILED LINEN ROOFS  
 SCALE: 3/16" = 1'-0"

**NOTES TO NEW ROOF FRAMING PLAN AT FRONT ENTRANCE ROOF AND SOILED LINEN ROOFS AT PARROTT BUILDING:**

- THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING. 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 TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF WORK AT THE ROOFS 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.
- THE EXISTING ROOFING SYSTEM(S) AT THE PARROTT BUILDING ROOFS ARE AS FOLLOWS:  
 3.1. FRONT ENTRANCE ROOF: AN EPDM MEMBRANE ROOF SYSTEM WITH TAPERED WOOD FIBER INSULATION (MAX 2" THICKNESS) ON A CONCRETE DECK.  
 3.2. SOILED LINEN A, B, C, AND D ROOFS: AN EPDM MEMBRANE ROOF SYSTEM WITH 1" THICK RIGID INSULATION ON A SLOPED CONCRETE DECK.
- THE BID ALTERNATE 01 SCOPE OF WORK FOR THE FRONT ENTRANCE ROOF AND SOILED LINEN A, B, C, AND D AT PARROTT BUILDING IS AS FOLLOWS:  
 4.1. REMOVE THE EXISTING EPDM MEMBRANE ROOF SYSTEMS AND ANY ASSOCIATED BLOCKING, ETC. DOWN TO THE EXISTING CONCRETE ROOF DECKS.  
 4.2. REMOVE THE EXISTING DOWNSPOUTS, GUTTER, AND SHEETMETAL FLASHINGS AT THE PERIMETER.  
 4.3. INSPECT EXISTING CONCRETE ROOF DECK AND MAKE REPAIRS WHERE DETERIORATED TO ENSURE ADEQUATE SUBSTRATE FOR INSTALLATION OF THE NEW ROOF SYSTEMS. AN ESTIMATED QUANTITY OF DECK REPAIR IS INCLUDED IN THE BASE BID.  
 4.4. INSTALL A TEMPORARY ROOF MEMBRANE OVER THE EXPOSED CONCRETE ROOF DECK TO MAINTAIN A TEMPORARY WATERTIGHT CONDITION.  
 4.5. INSTALL NEW RETROFIT FRAMING AND A STANDING SEAM METAL ROOF SYSTEM AS SPECIFIED IN THE DESIGN DETAILS AND PROJECT MANUAL.  
 4.6. INSTALL NEW PERIMETER SHEETMETAL, GUTTERS, DOWNSPOUTS, AND OTHER ACCESSORY WORK AS SPECIFIED IN THE DESIGN DETAILS AND PROJECT MANUAL.
- REMOVE AND DISPOSE OF THE EXISTING EPDM MEMBRANE ROOF SYSTEMS AT EACH ROOF AREA DOWN TO THE EXISTING CONCRETE ROOF DECKS. 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. REMOVE ALL FLASHINGS, METAL TRIM, AND ACCESSORIES TO ALLOW FOR NEW SYSTEM INSTALLATION AS SHOWN.
- INSPECT EXISTING WOOD BLOCKING AS IT IS EXPOSED DURING ROOF DEMOLITION. REMOVE BLOCKING NOT REQUIRED FOR USE IN THE NEW ROOF SYSTEM. IF INTENDED FOR REUSE, MAKE REPAIRS TO ANY DAMAGED MATERIALS AS NEEDED TO PROVIDE AN ACCEPTABLE SUBSTRATE FOR INSTALLATION OF THE NEW EPDM MEMBRANE.
- INSTALL A EPDM MEMBRANE OVER THE EXISTING ROOF DECK AND SECURE AROUND PERIMETERS. MEMBRANE SYSTEM SHALL ACT AS A TEMPORARY ROOF SYSTEM TO MAINTAIN THE ROOF IN A WATERTIGHT CONDITION DURING INSTALLATION OF THE RETROFIT ROOF SYSTEM AND STANDING SEAM METAL ROOF SYSTEM. MEMBRANE SHALL EITHER BE ADHERED, PERIODICALLY BALLASTED, OR SECURED WITH ANGLE CLIPS/SHOES TO ADEQUATELY RESIST WIND UPLIFT UNTIL THE RETROFIT FRAMING SYSTEM IS INSTALLED. ALL PENETRATIONS MADE THROUGH THE TEMPORARY MEMBRANE MUST BE MAINTAINED IN A WATERTIGHT CONDITION.
- INSTALL A NEW RETROFIT SUBSTRUCTURE TO SUPPORT THE NEW STANDING SEAM METAL ROOF SYSTEM. INSTALL NEW BASE CLIPS/SHOES SECURED THROUGH THE NEW EPDM MEMBRANE INTO THE EXISTING MASONRY WALLS AND CONCRETE STRUCTURE TO PROVIDE ATTACHMENT POINTS FOR THE NEW RETROFIT SLEEPER PURLINS AT THE PARROTT BUILDING FRONT ENTRANCE ROOF. INSTALL POSTS SECURED TO NEW SLEEPER PURLINS AND PURLINS SECURED TO EACH POST TO PROVIDE A 1:12 ROOF SLOPE IN THE DIRECTION AS SHOWN ON THE DESIGN DRAWINGS. **A LOWER SLOPE (1/2:12) AND MINOR MODIFICATION TO THE STRUCTURE AT THE SOILED LINEN ROOFS MAY BE REQUIRED TO NOT CONFLICT WITH EXISTING ADJACENT WINDOWS.** INSTALL KICKERS, RAKE/EAVE ANGLES, OFFSET CLEATS, STRAPPING, BRACING, ANGLES, AND OTHER COMPONENTS WHETHER LISTED/SHOWN OR NOT AS REQUIRED FOR PROPER INSTALLATION OF THE NEW FRAMING SYSTEM IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND REQUIRED SHOP DRAWINGS AND CALCULATIONS BY THE ROOF SYSTEM MANUFACTURER AND SEALED BY A NORTH CAROLINA PROFESSIONAL ENGINEER. PERFORM FASTENER PULL TESTING TO CONFIRM ADEQUATE WIND UPLIFT RESISTANCE OF CONNECTION TO THE EXISTING STRUCTURAL MEMBERS (MASONRY WALLS, CONCRETE STRUCTURE AND REMAINING PERIMETER WOOD BLOCKING). ALL PENETRATIONS MADE THROUGH THE NEW EPDM MEMBRANE MUST BE MAINTAINED IN A WATERTIGHT CONDITION.
- INSTALL NEW PRE-FINISHED STANDING SEAM METAL ROOF PANELS SECURE TO THE PURLINS WITH FLOATING CLIPS. REFER TO SHEET 4.1 FOR ADDITIONAL INFORMATION.
- 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 MAINTAINING 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, THE CONTRACTOR IS RESPONSIBLE FOR MAKING REPAIRS/REPLACEMENT AS NECESSARY TO RETURN THE DAMAGE ITEM/FINISH/SYSTEM TO THE CONDITION IT WAS IN PRIOR TO DAMAGE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE STORAGE AND STAGING AREA(S) SHOWN OR OTHER AREAS ACCESSED FOR THE PURPOSE OF CONSTRUCTION. COORDINATE AREAS WITH THE OWNER TO CONFIRM ACCEPTABILITY. AREAS USED FOR CONSTRUCTION MUST BE RETURNED TO THEIR ORIGINAL CONDITION AT THE END OF THE PROJECT. NO INTERRUPTION OF UTILITIES MAY OCCUR UNLESS AGREED UPON IN ADVANCE WITH THE OWNER. ELECTRICAL SERVICES, WIRES, EQUIPMENT, UTILITIES, STORM DRAIN LINES, ETC. MAY EXIST WITHIN OR DIRECTLY ADJACENT TO THE PROPOSED STORAGE AND STAGING AREA AND ROOF ACCESS POINT(S). LOCATE, MARK, AND PROTECT THESE FEATURES TO ALLOW FOR PROTECTION DURING THE WORK AND IDENTIFY ITEMS THAT WILL REQUIRE TEMPORARY DISRUPTION TO ALLOW FOR COORDINATION WITH THE OWNER. MAINTAIN SAFE INGRESS AND EGRESS FROM THE BUILDING AND DO NOT BLOCK VEHICULAR OR PEDESTRIAN ACCESS TO THE BUILDING WITHOUT ADVANCE COORDINATION WITH THE OWNER.
- FOLLOW ALL SPECIFIC REQUIREMENTS OF CASWELL DEVELOPMENTAL CENTER TO ENSURE THE SAFETY OF THE BUILDING OCCUPANTS DURING CONSTRUCTION INCLUDING SECUREMENT AND SUPERVISION OF ALL LADDERS, TOOLS, EQUIPMENT, VEHICLES, AND STORED MATERIALS. PROVIDE FENCING AROUND STAGING AND STORAGE AREAS. THE CONTRACTOR MAY REQUIRE AN ESCORT TO ENTER THE BUILDING TO ACCESS THE ATTIC SPACE FOR ASBESTOS PROTECTION AND MONITORING.

**KEYED NOTES:**

- INSTALL NEW DOWNSPOUTS WHERE MARKED ON THE ROOF PLAN. BOTTOM OF DOWNSPOUTS MUST KICK OUT 45°. ENSURE GRADE SLOPES AWAY FROM THE BUILDING AT DOWNSPOUTS DISCHARGING ONTO GRASS OR LANDSCAPING.

**LEGEND**

- EXISTING EXTERIOR MASONRY WALL (FIELD VERIFY)
- EXISTING ROOF PERIMETER
- ZEE-SHAPED SLEEPER PURLIN SUPPORTED BY BASE CLIP SECURED THROUGH EXISTING ROOF DECK TO EXISTING CONCRETE/MASONRY STRUCTURE. SLEEPER PURLINS @ APPROX. 5' O.C. SPACING
- ZEE-SHAPED PURLIN SUPPORTED BY CEE SHAPED POSTS SECURED TO SLEEPER PURLINS. HEIGHT OF POSTS AND PURLINS SHALL PROVIDE APPROX. 1:12 SLOPE
- L-SHAPED PURLIN SUPPORTED BY BASE CLIP SECURED TO EXISTING ROOF DECK (SOILED LINEN ROOFS ONLY). BASE CLIPS @ APPROX. 2'-3" O.C. SPACING
- CONTINUOUS L-SHAPED EAVE STRUT (SOILED LINEN ROOFS ONLY), SECURED TO ROOF DECK @ APPROX. 2'-3" O.C. SPACING
- STANDING SEAM METAL ROOF PANELS (PANEL RIBS @ 16" O.C. TYP.)
- EAVE W/ GUTTER AND DOWNSPOUT
- RAKE EDGE W/ PERIMETER METAL
- NON-PENETRATING SNOW GUARD (FRONT ENTRANCE ROOF ONLY)
- NEW 1:12 ROOF SLOPE AT FRONT ENTRANCE ROOF AND 1/2:12 ROOF SLOPE AT SOILED LINEN ROOF AREAS A, B, C, AND D (PROVIDED BY NEW RETROFIT STRUCTURE)
- CHANGE IN ELEVATION
- KEYED NOTE
- DETAIL CALLOUT (DETAIL X ON SHEET X.X)



**NEW ROOF FRAMING PLANS AND ROOF PLANS - PARROTT BUILDING (BID ALT. 01)**  
 KENDALL BUILDING ROOF REPLACEMENT  
 CASWELL DEVELOPMENTAL CENTER, KINSTON, NC  
 SCO ID#: 22-25783-01B; CODE:42240; ITEM:429074

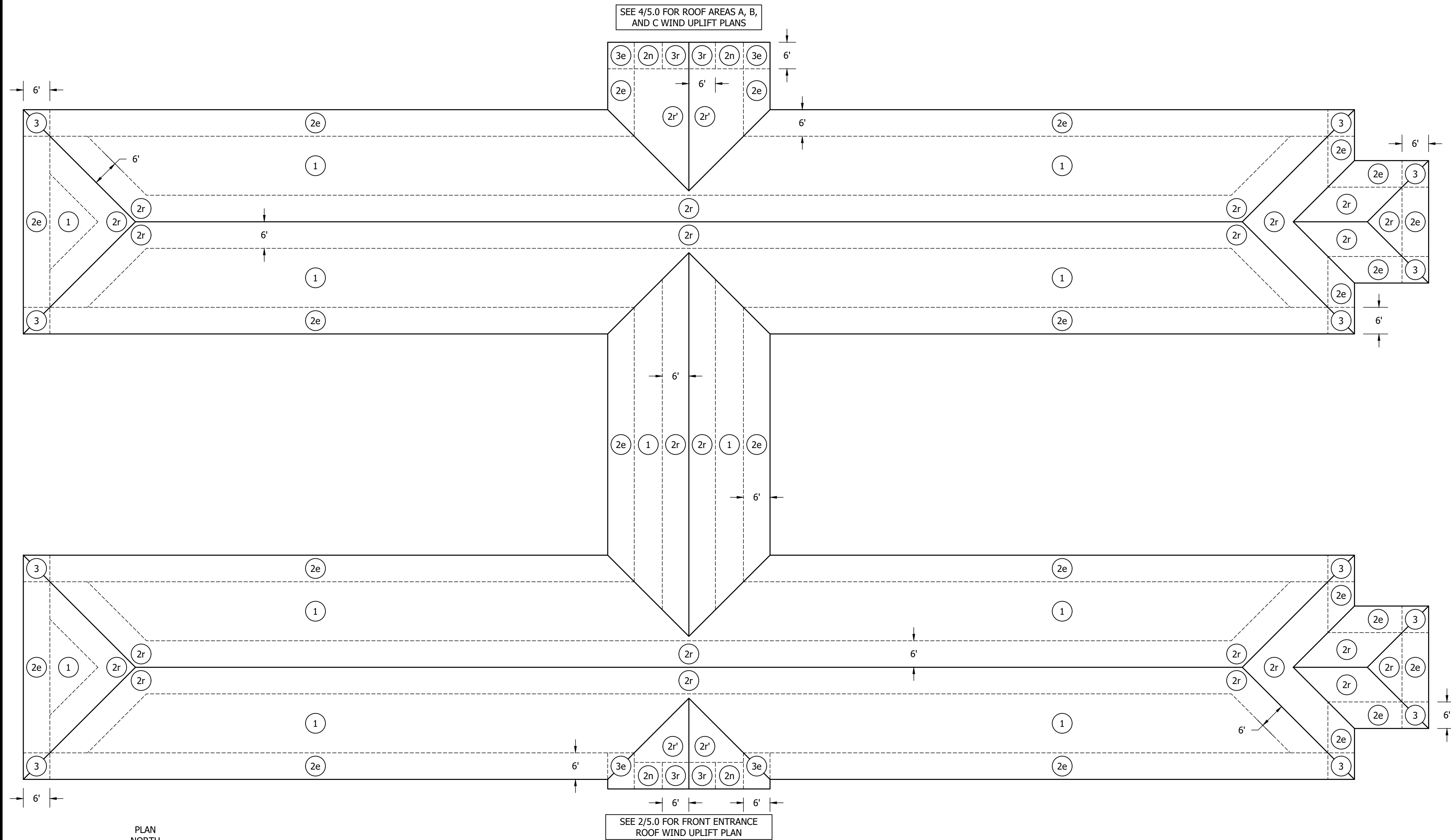
No.	REVISION	By	Date

DRAWN BY: TJF  
 ENGINEER: KEW  
 APPROVAL: KEW  
 DATE: FEB 2025  
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BID SET





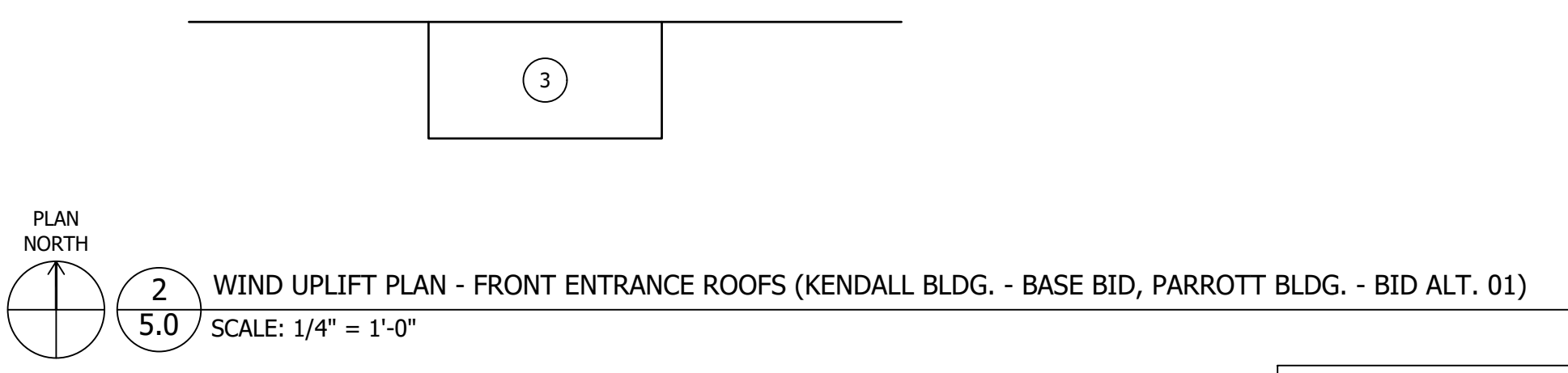
**KENDALL BUILDING ULTIMATE WIND PRESSURES (ASCE 7-16, FIGURES 30.3-2C AND 30.3-2G)**

1	ZONE 1: 61 PSF*
2e	ZONE 2e: 79 PSF*
2n	ZONE 2n: 97 PSF
2r	ZONE 2r: 78 PSF
2r'	ZONE 2r': 97 PSF
3	ZONE 3: 79 PSF
3e	ZONE 3e: 97 PSF
3r	ZONE 3r: 137 PSF

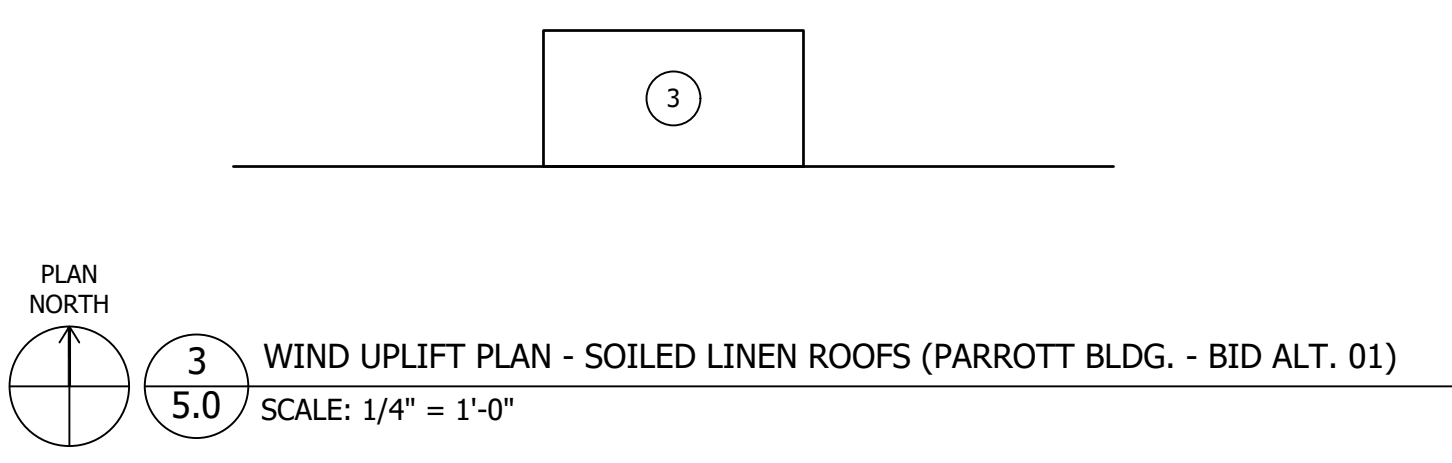
\*WIND LOADS SHOWN FOR EACH ZONE REPRESENT THE MAXIMUM ULTIMATE UPLIFT LOADS CALCULATED FOR CONDITIONS SHOWN IN ASCE 7-16, FIGURES 30.3-2C AND 30.3-2G

PLAN NORTH  
 1 WIND UPLIFT PLAN - KENDALL BUILDING  
 5.0 SCALE: 1/16" = 1'-0"

SEE 2/5.0 FOR FRONT ENTRANCE ROOF WIND UPLIFT PLAN



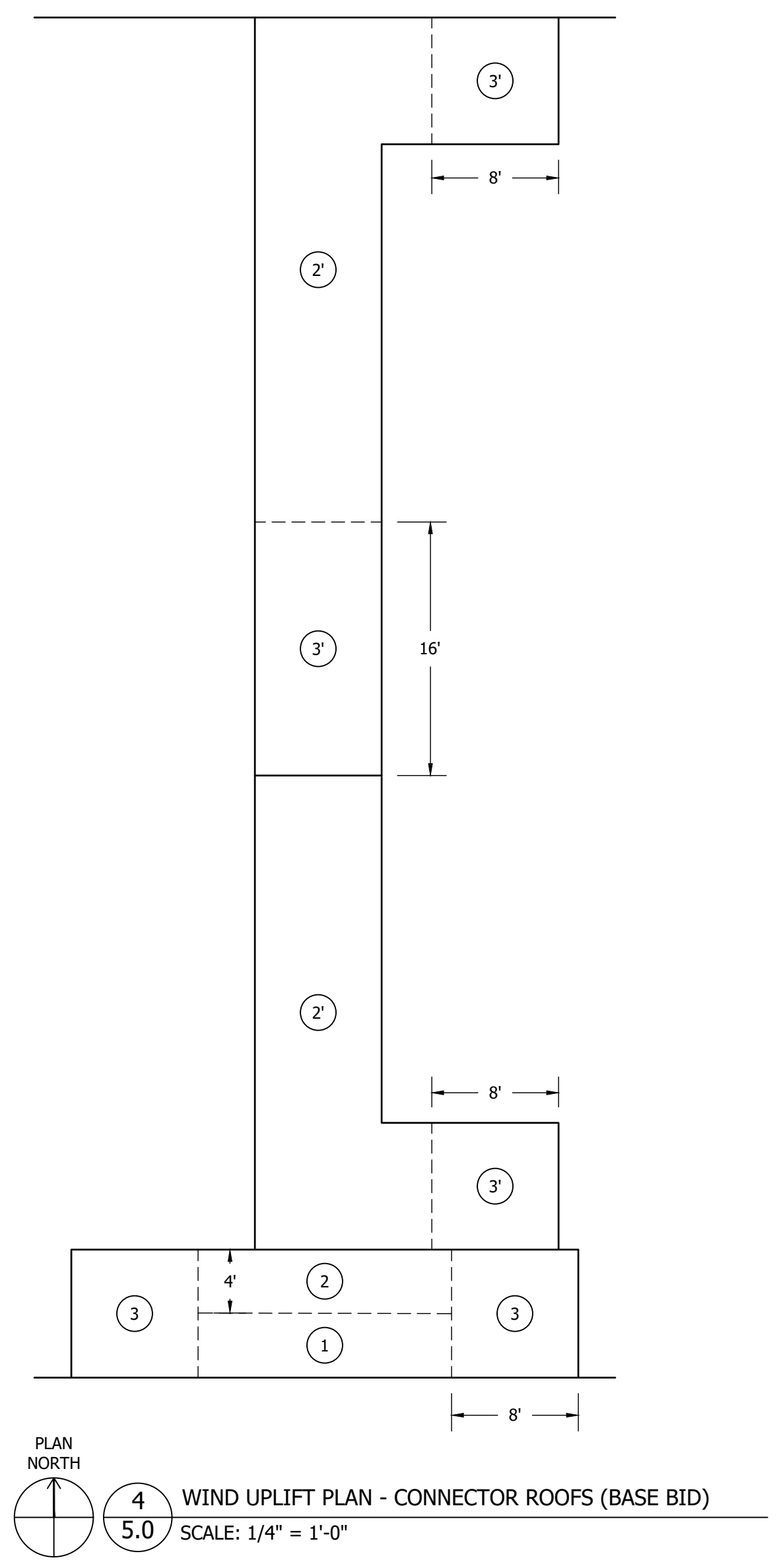
PLAN NORTH  
 2 WIND UPLIFT PLAN - FRONT ENTRANCE ROOFS (KENDALL BLDG. - BASE BID, PARROTT BLDG. - BID ALT. 01)  
 5.0 SCALE: 1/4" = 1'-0"



PLAN NORTH  
 3 WIND UPLIFT PLAN - SOILED LINEN ROOFS (PARROTT BLDG. - BID ALT. 01)  
 5.0 SCALE: 1/4" = 1'-0"

**FRONT ENTRANCE ROOFS, CONNECTOR ROOFS, AND SOILED LINEN ROOFS (AT KENDALL BUILDING AND PARROTT BUILDING) ULTIMATE WIND PRESSURES (ASCE 7-16, FIGURE 30.3-5A)**

1	ZONE 1: 43 PSF
2	ZONE 2: 50 PSF
2'	ZONE 2': 60 PSF
3	ZONE 3: 67 PSF
3'	ZONE 3': 94 PSF



PLAN NORTH  
 4 WIND UPLIFT PLAN - CONNECTOR ROOFS (BASE BID)  
 5.0 SCALE: 1/4" = 1'-0"



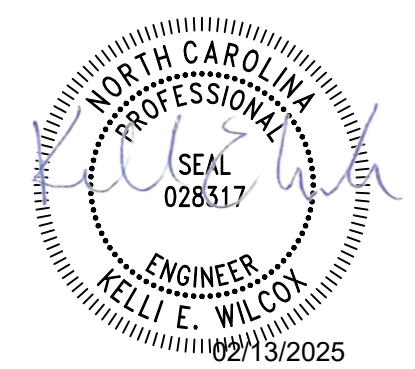
**WIND UPLIFT PLANS**  
 KENDALL BUILDING ROOF REPLACEMENT  
 CASWELL DEVELOPMENTAL CENTER, KINSTON, NC  
 SCO ID#: 22-25783-01B; CODE:42240; ITEM:429074

No.	REVISION	By	Date

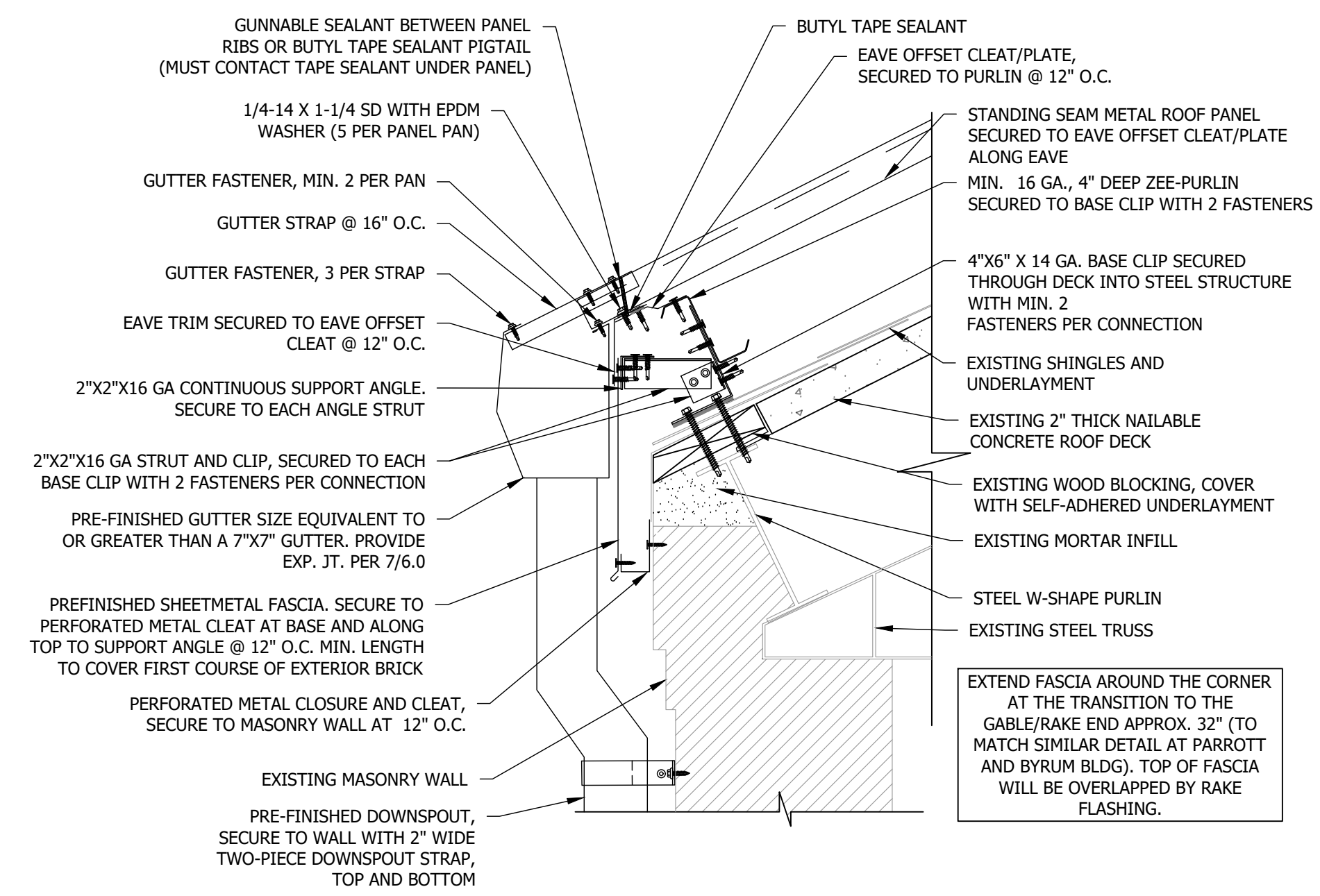
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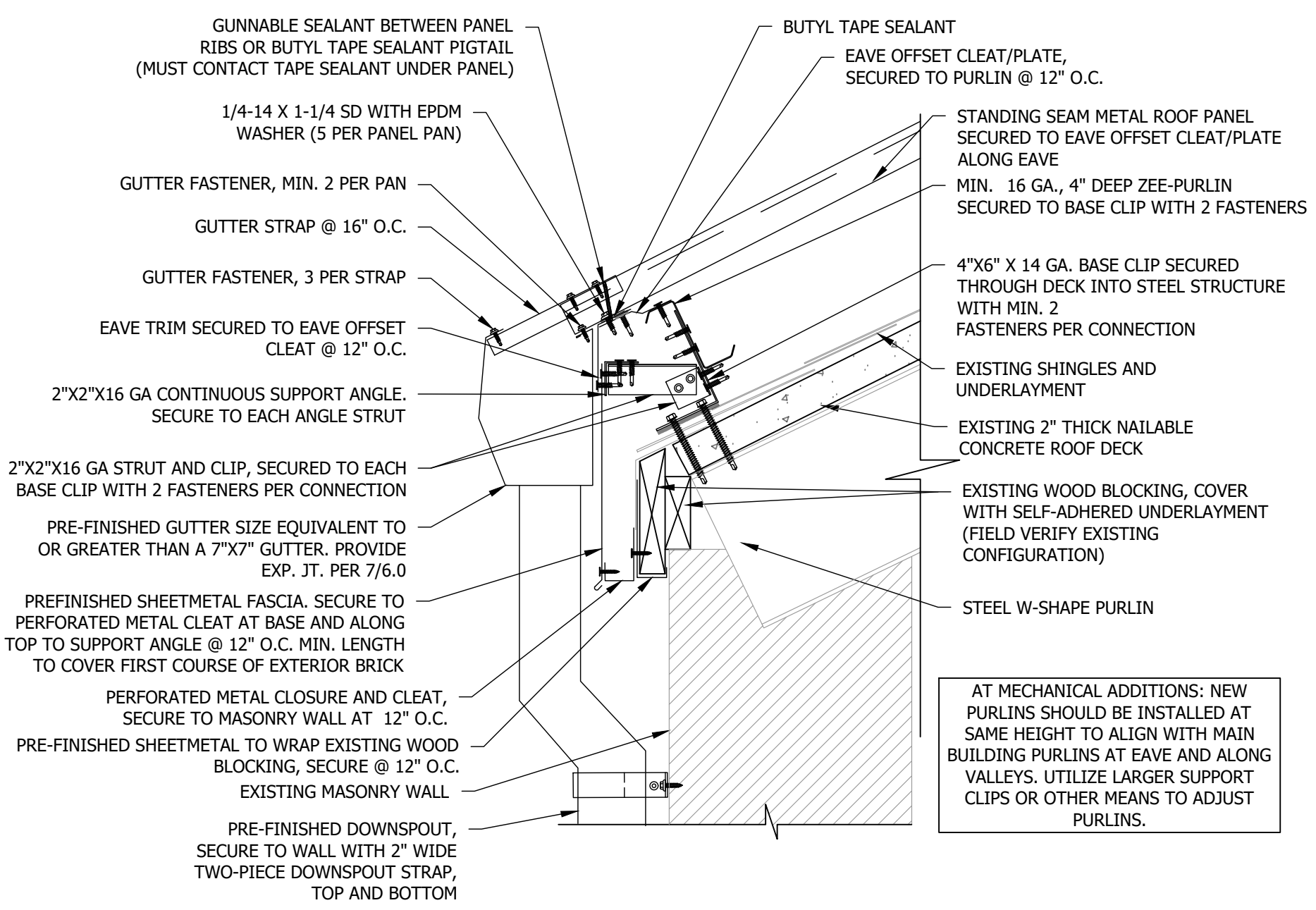




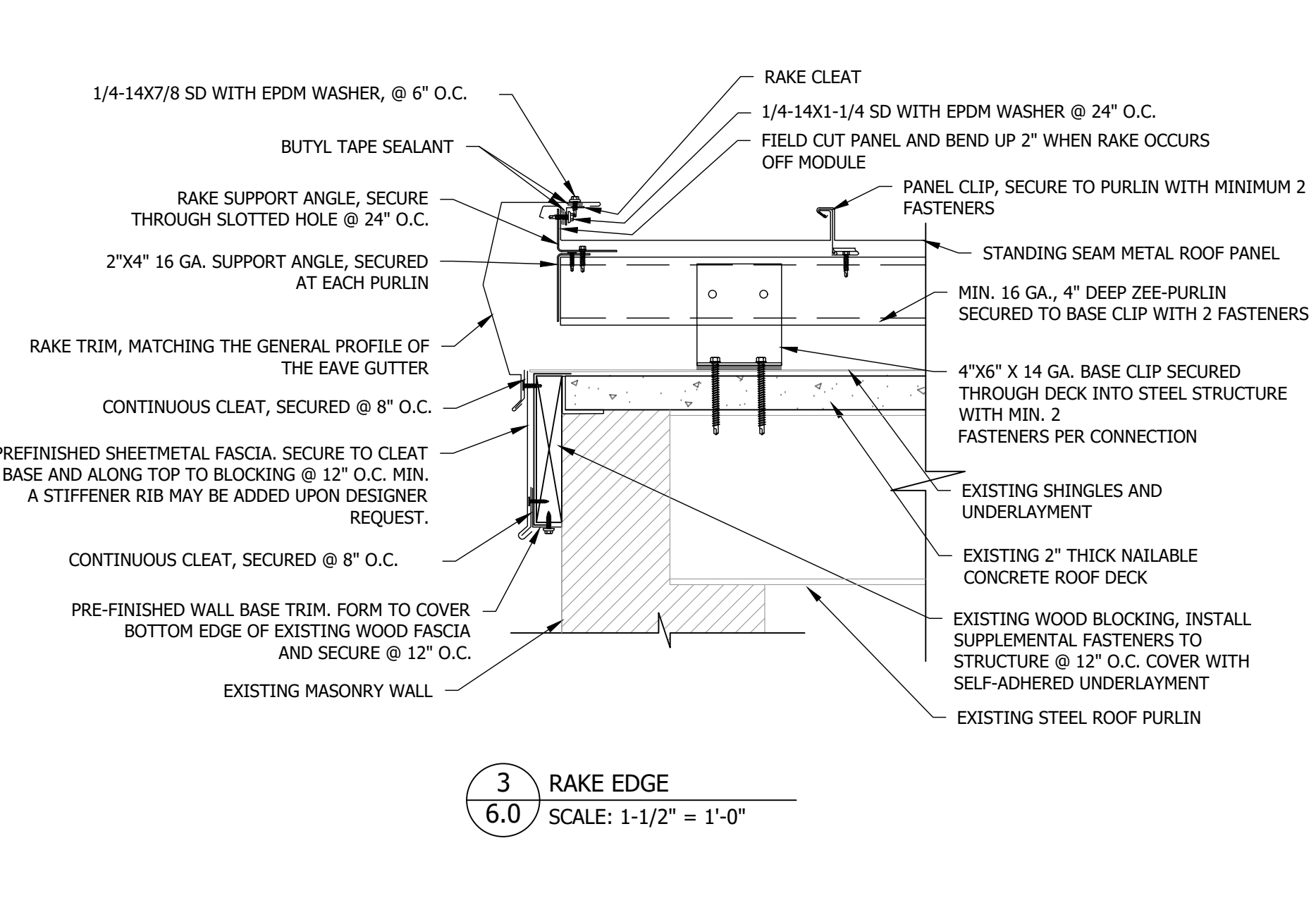
**CONSTRUCTION DETAILS - KENDALL BUILDING**  
 KENDALL BUILDING ROOF REPLACEMENT  
 CASWELL DEVELOPMENTAL CENTER, KINSTON, NC  
 SCO ID#: 22-25783-01B; CODE:42240; ITEM:429074



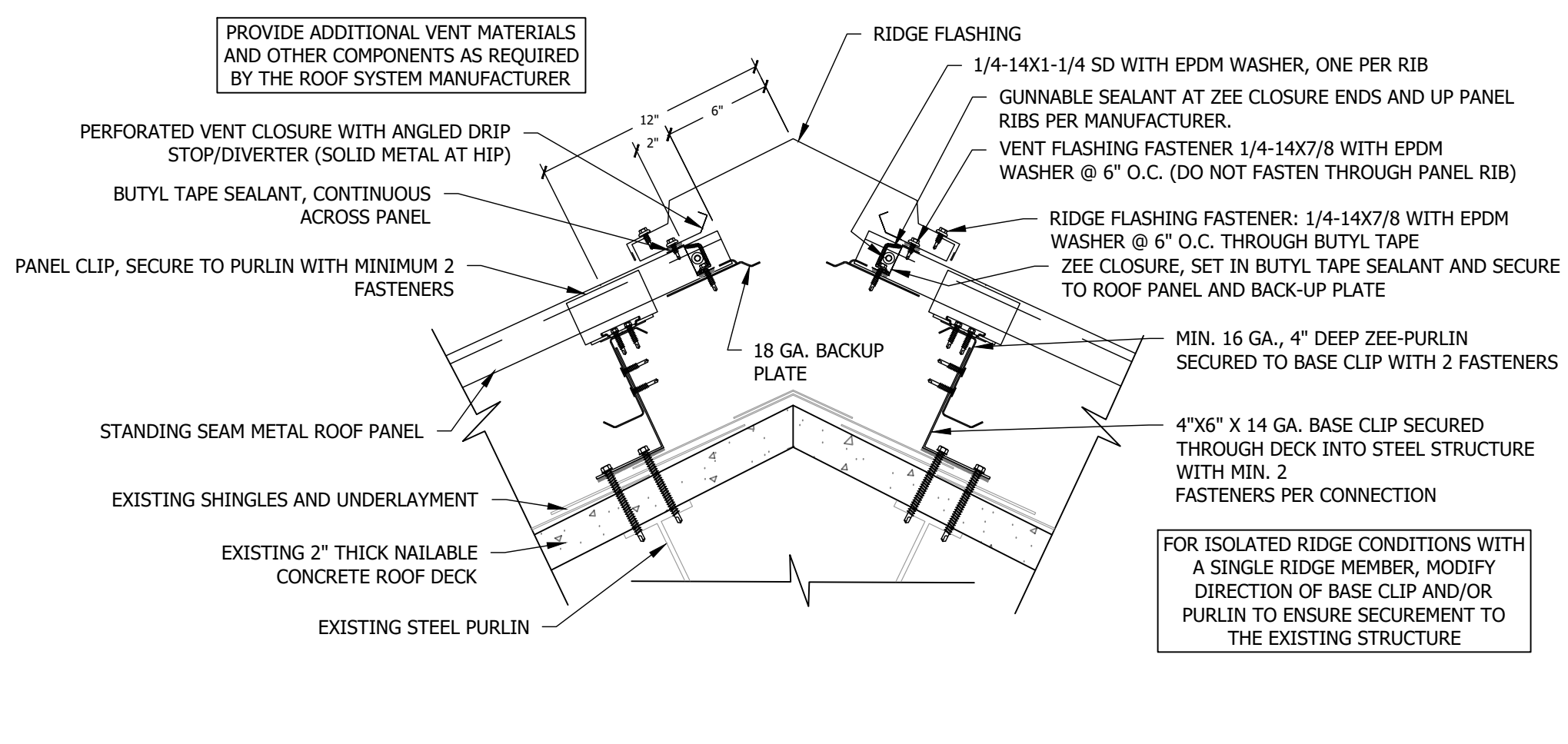
**1** EAVE WITH GUTTER - MAIN BUILDING  
 6.0 SCALE: 1-1/2" = 1'-0"



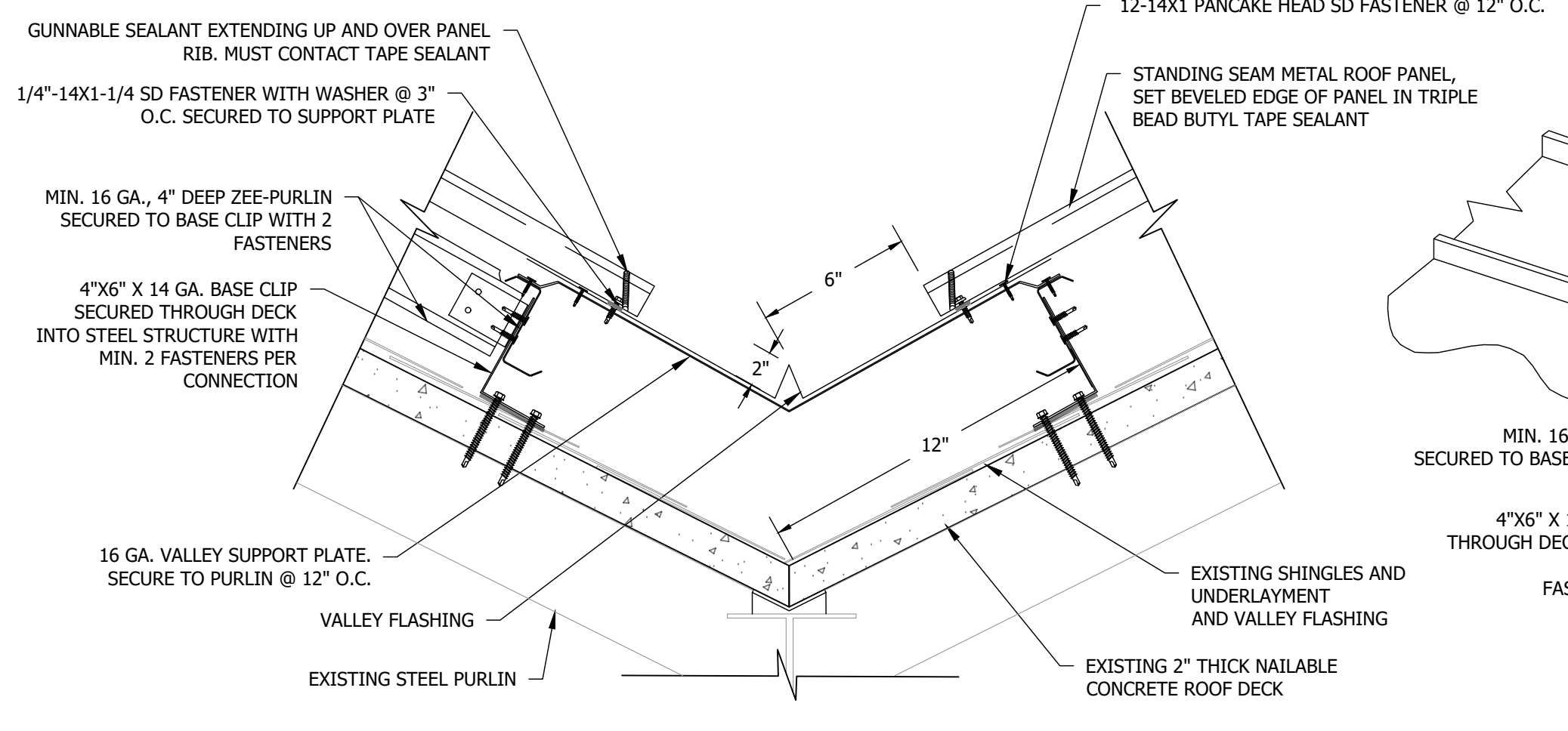
**2** EAVE WITH GUTTER - MECH. ADD.  
 6.0 SCALE: 1-1/2" = 1'-0"



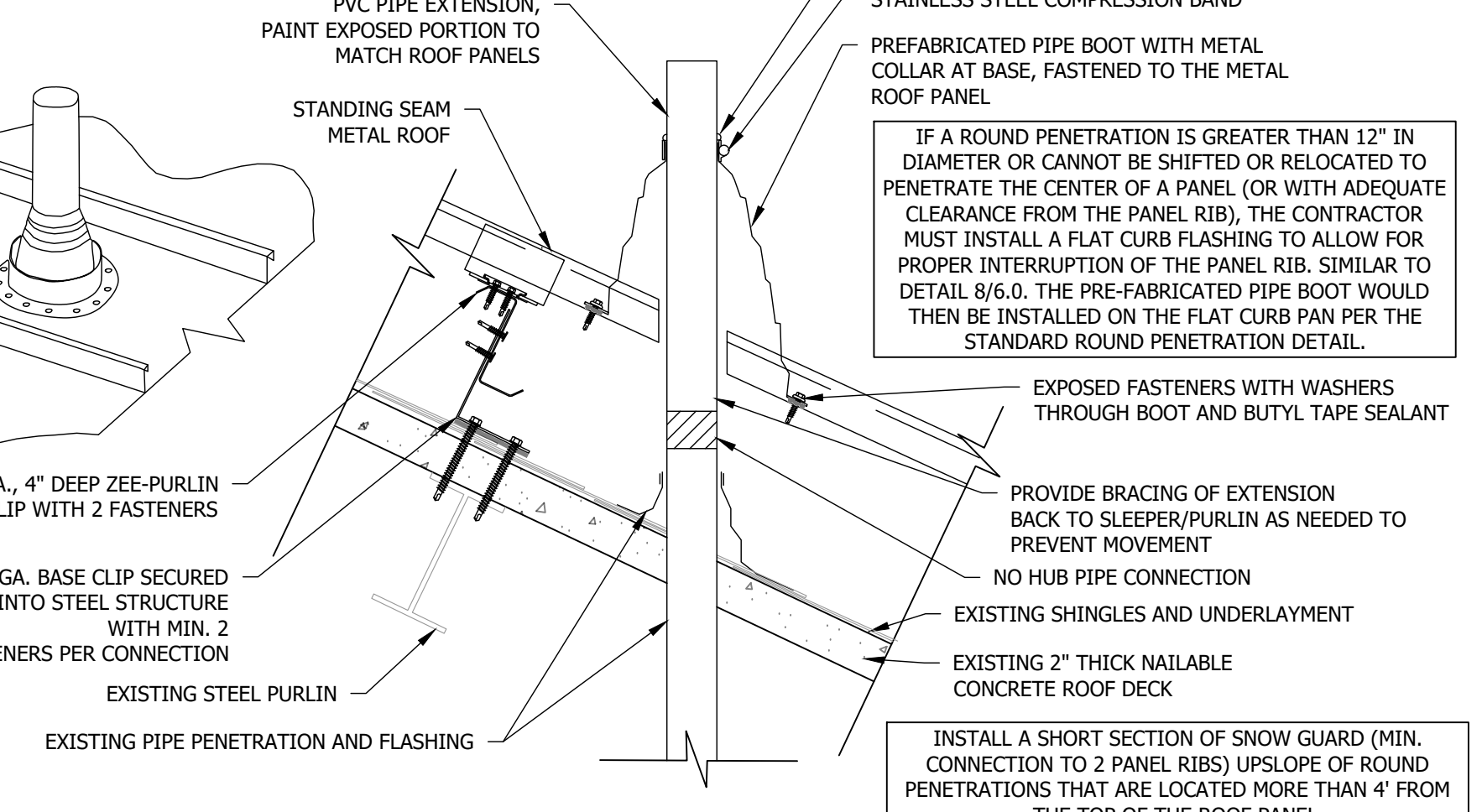
**3** RAKE EDGE  
 6.0 SCALE: 1-1/2" = 1'-0"



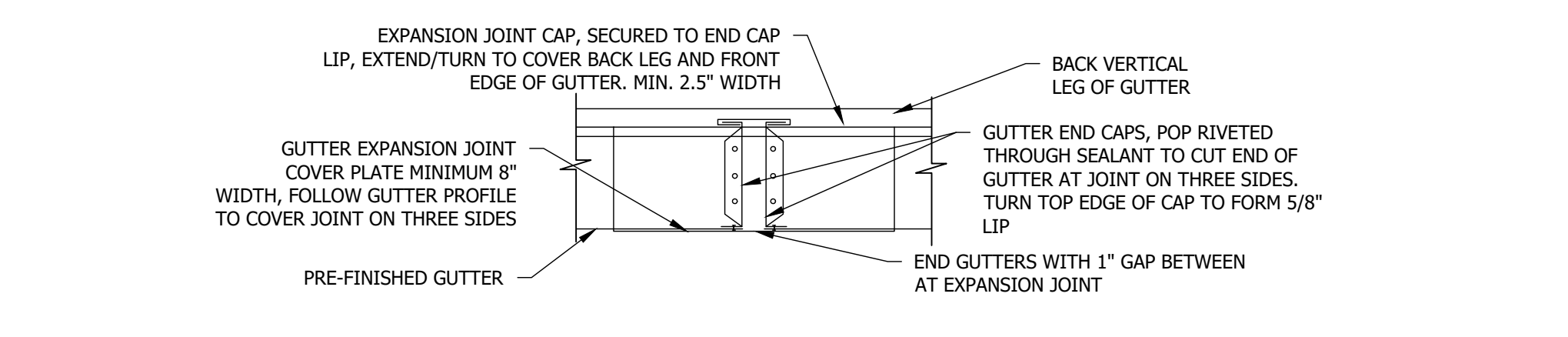
**4** VENTED RIDGE/NON-VENTED HIP  
 6.0 SCALE: 1-1/2" = 1'-0"



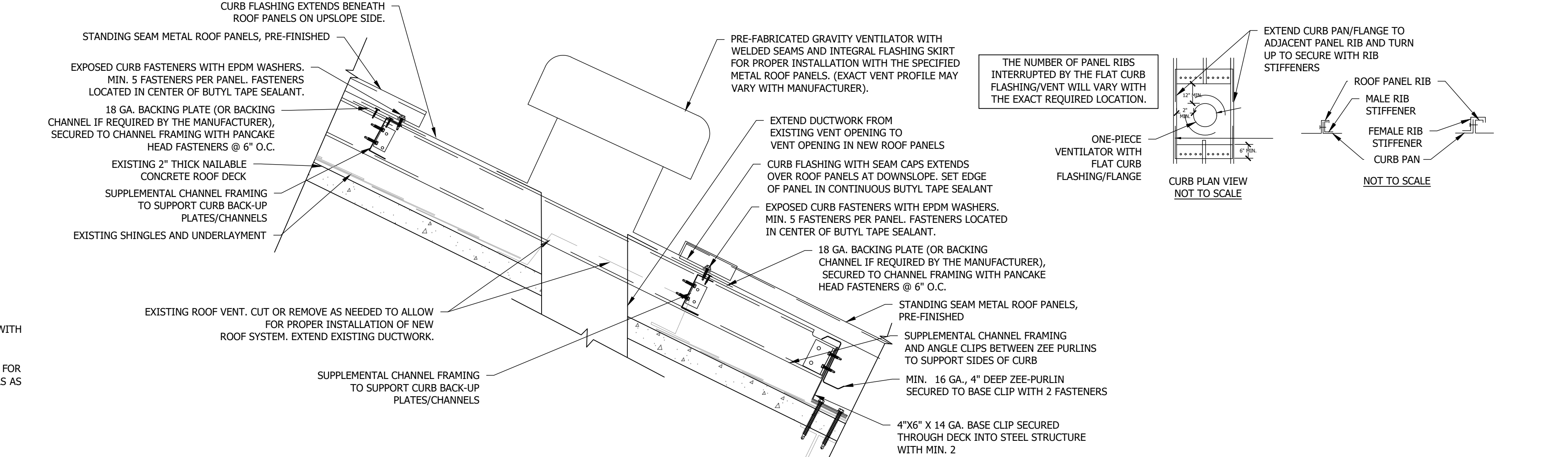
**5** FIXED VALLEY  
 6.0 SCALE: 1-1/2" = 1'-0"



**6** ROUND PENETRATION (BETWEEN RIBS)  
 6.0 SCALE: 1-1/2" = 1'-0"



**7** GUTTER EXPANSION JOINT  
 6.0 SCALE: 1-1/2" = 1'-0"



**8** VENT PENETRATION  
 6.0 SCALE: 1-1/2" = 1'-0"

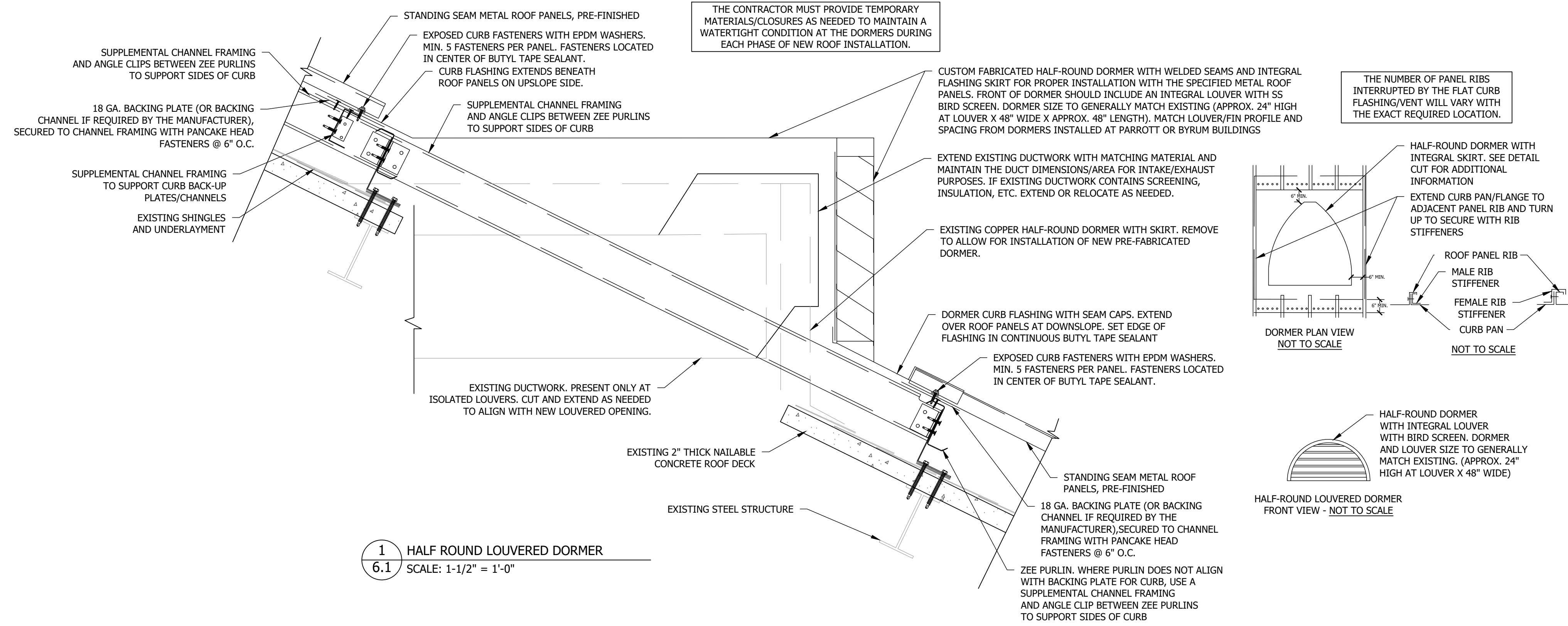
- NOTES TO CONSTRUCTION DETAILS:**
- THIS DRAWING ACCOMPANIES A PROJECT MANUAL BY ATLAS ENGINEERING. PRIOR TO THE START OF WORK, PERFORM A PRE-JOB DAMAGE SURVEY IN ACCORDANCE WITH THE PROJECT MANUAL.
  - DETAILS ARE PROVIDED TO COMMUNICATE DESIGN INTENT. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, ROOF CONSTRUCTIONS, AND OTHER CONDITIONS SHOWN FOR THE PURPOSE OF BIDDING AND CONSTRUCTION. NOTIFY THE DESIGNER PROMPTLY IF DISCOVERED CONDITIONS WILL NOT ALLOW FOR INSTALLATION OF THE DETAILS AS SHOWN OR AS REQUIRED BY THE MANUFACTURER. DO NOT MODIFY DETAILS WITHOUT ADVANCE APPROVAL FROM THE DESIGNER.
  - SYSTEM COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED TO BE EXISTING IN THE DETAIL.
  - MAINTAIN CORRECT SEQUENCE OF WORK TO ALLOW FOR PROPER INSTALLATION OF THE DETAILS AS SHOWN.
  - SUBMIT SHOP DRAWINGS TO PROVIDE ADDITIONAL INFORMATION REGARDING SHEETMETAL PROFILE AND SECUREMENT, FASTENER TYPES AND SIZES, AND ANY MINOR CHANGES FROM THE DESIGN DETAILS THAT MAY BE NECESSARY DUE TO MORE STRINGENT REQUIREMENTS OF THE WARRANTING MANUFACTURER.

No.	REVISION	By	Date

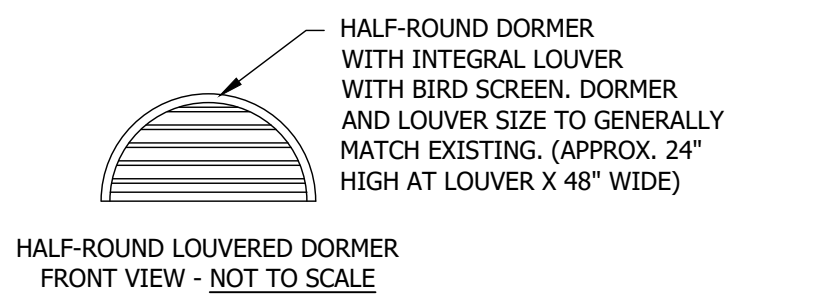
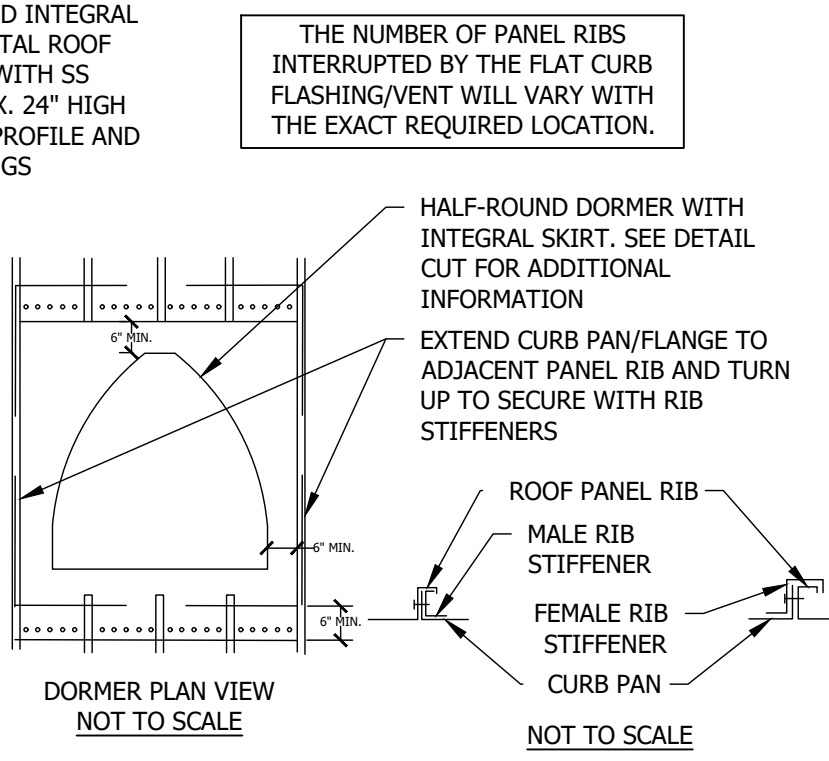
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 ENGINEER: KEW  
 APPROVAL: KEW  
 DATE: FEB 2025  
 PROJ: J2811 SCALE: AS SHOWN  
 DWG. NO.

6.0



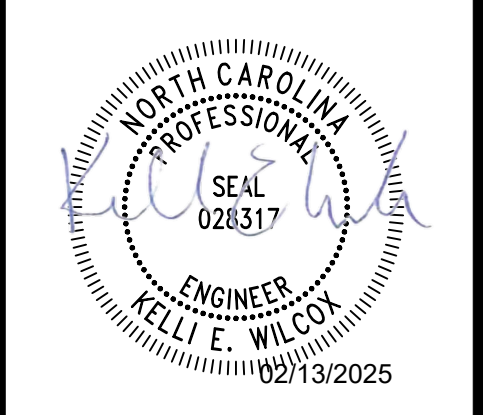


**1** HALF ROUND LOUVERED DORMER  
 6.1 SCALE: 1-1/2" = 1'-0"



**NOTES TO CONSTRUCTION DETAILS:**

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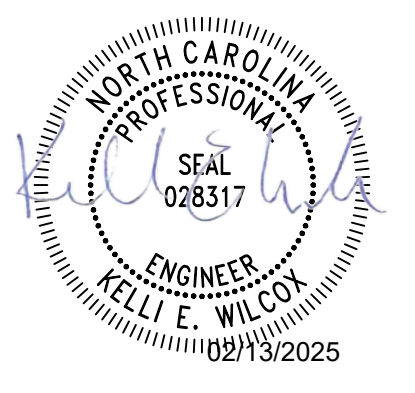
**CONSTRUCTION DETAILS - KENDALL BUILDING**  
 KENDALL BUILDING ROOF REPLACEMENT  
 CASWELL DEVELOPMENTAL CENTER, KINSTON, NC  
 SCO ID#: 22-25783-01B; CODE:42240; ITEM:429074

No.	REVISION	By	Date

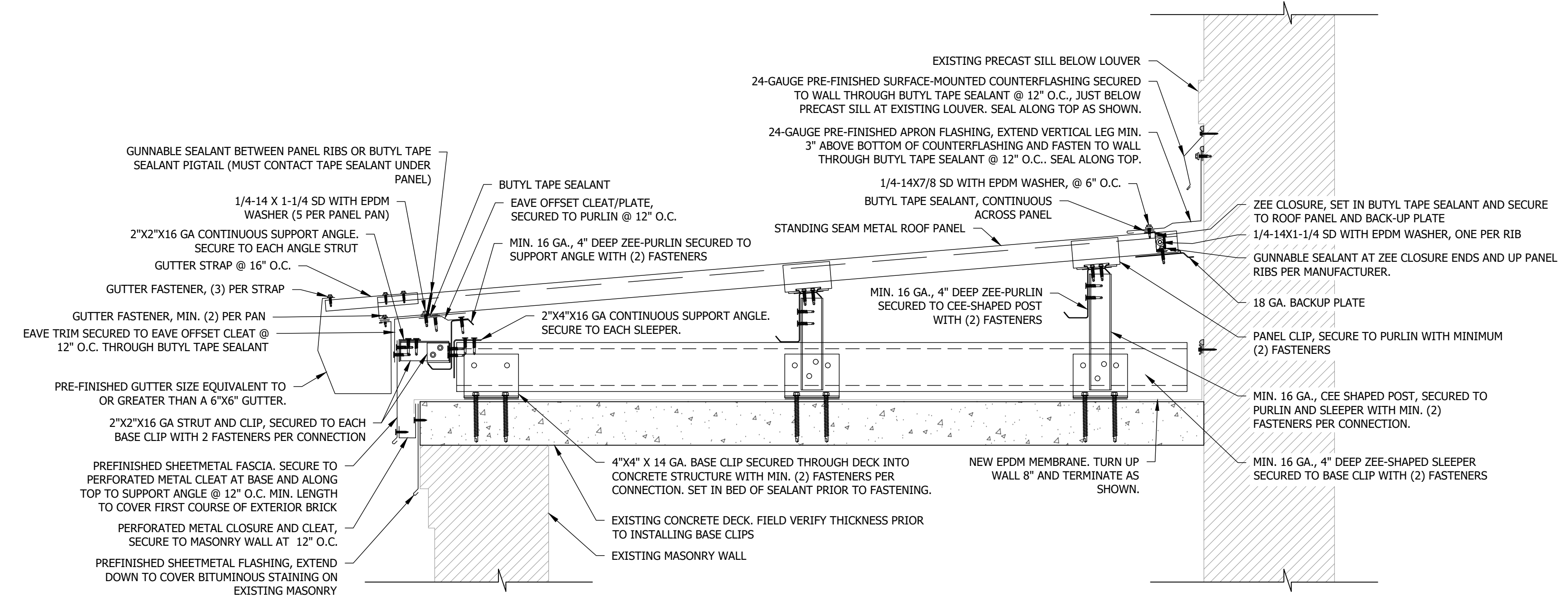
DRAWN BY: TJF  
 ENGINEER: KEW  
 APPROVAL: KEW  
 DATE: FEB 2025  
 PROJ.: J2811 SCALE: AS SHOWN  
 DWG. NO.

6.1

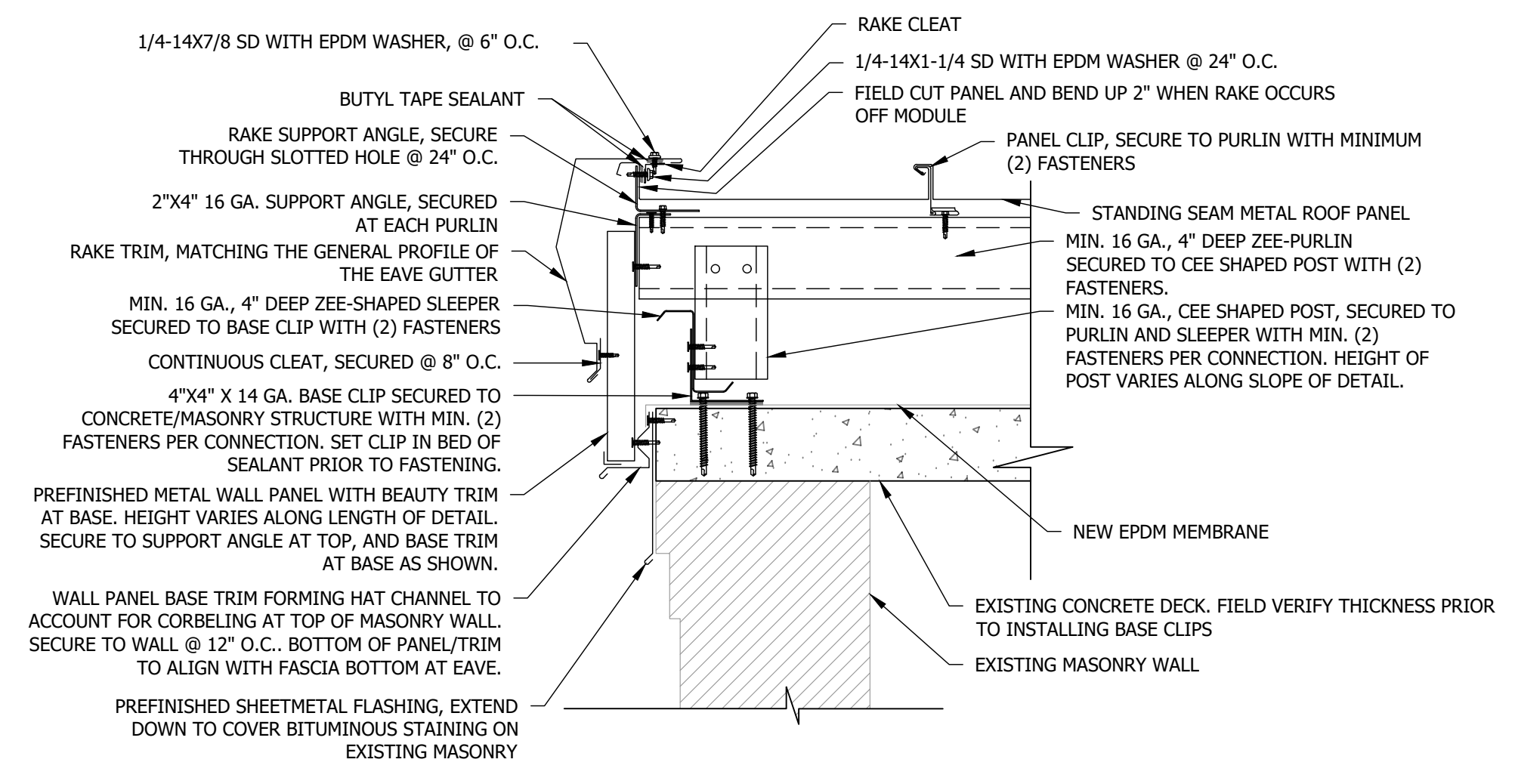




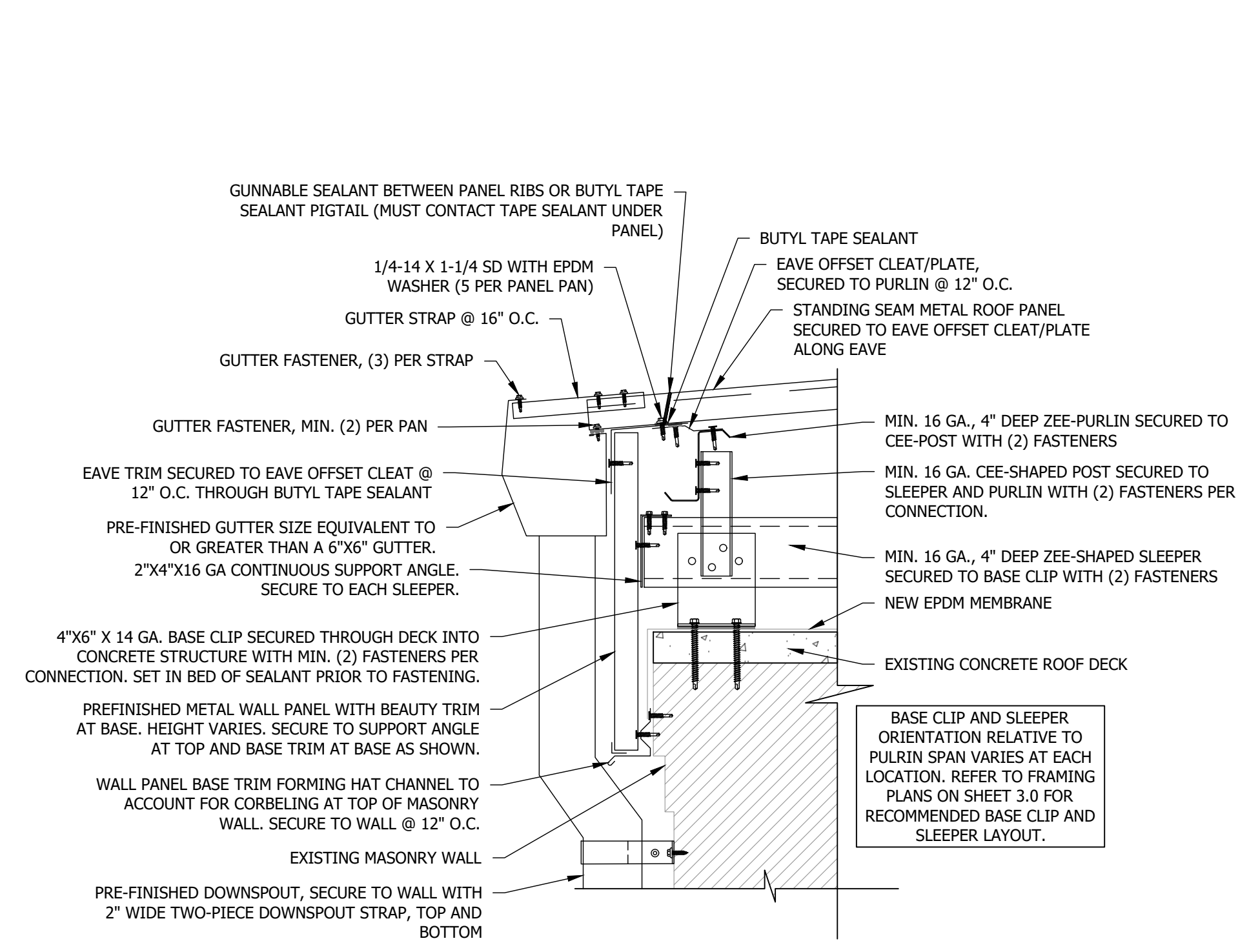
**CONSTRUCTION DETAILS - FRONT ENTRANCE ROOF AND CONNECTOR ROOFS**  
 KENDALL BUILDING ROOF REPLACEMENT  
 CASWELL DEVELOPMENTAL CENTER, KINSTON, NC  
 SCO ID#: 22-25783-01B; CODE:42240; ITEM:429074



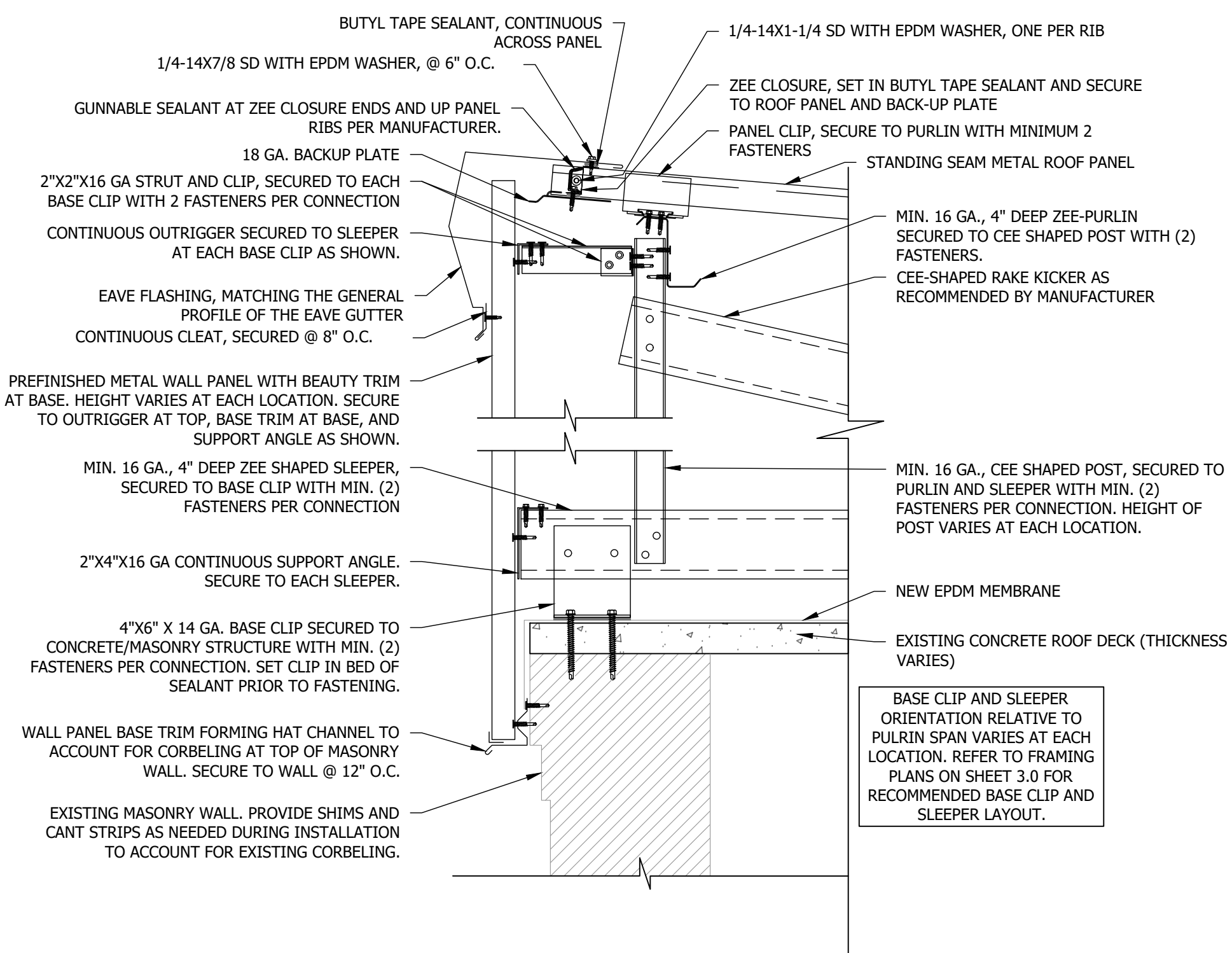
**1** FRONT ENTRANCE ROOF - EAVE W/ GUTTER AND APRON FLASHING  
 7.0 SCALE: 1-1/2" = 1'-0"



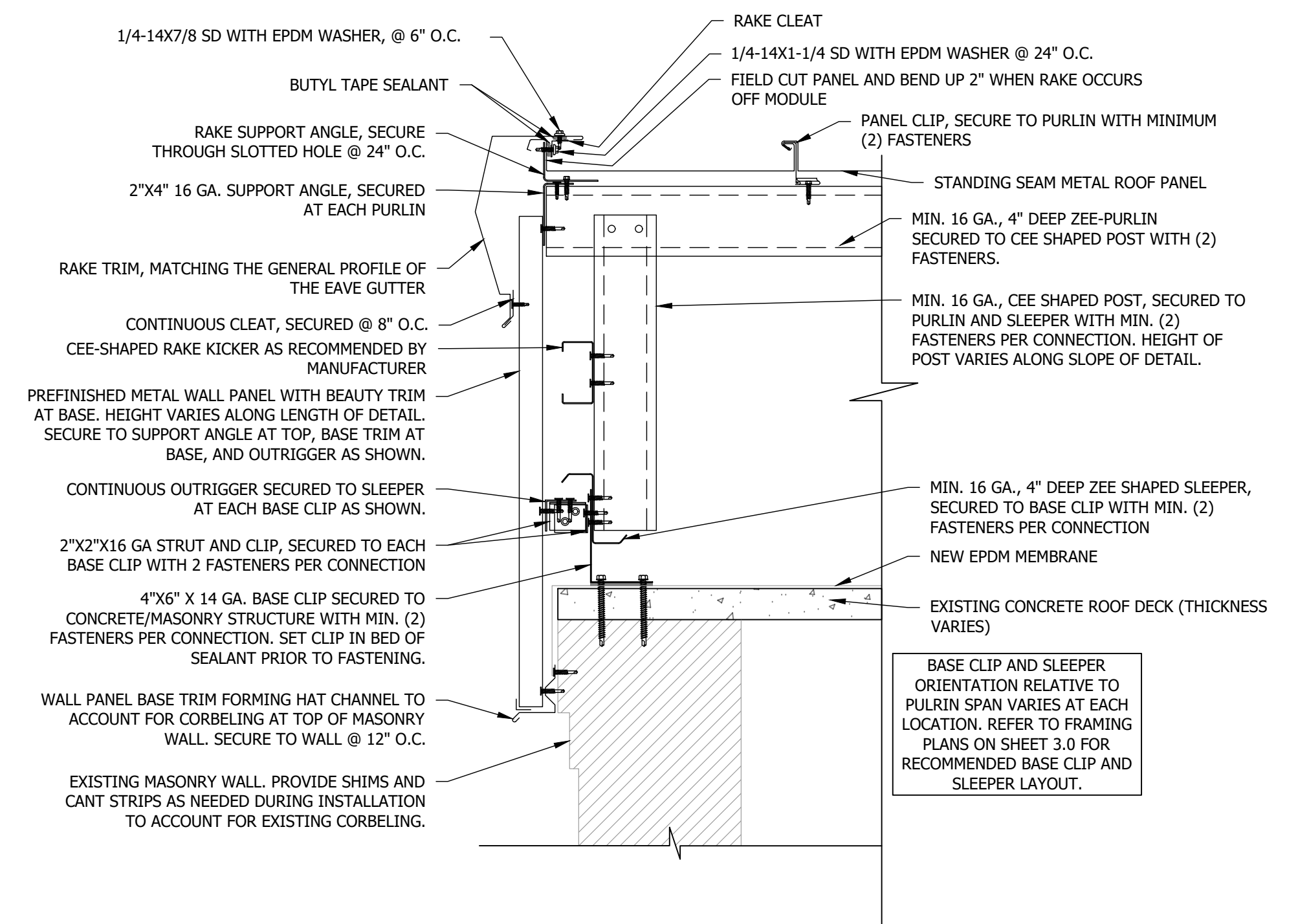
**2** FRONT ENTRANCE ROOF - RAKE EDGE  
 7.0 SCALE: 1-1/2" = 1'-0"



**3** CONNECTOR ROOFS - EAVE W/ GUTTER  
 7.0 SCALE: 1-1/2" = 1'-0"



**4** CONNECTOR ROOFS - HIGH EAVE  
 7.0 SCALE: 1-1/2" = 1'-0"



**5** CONNECTOR ROOFS - RAKE EDGE  
 7.0 SCALE: 1-1/2" = 1'-0"

**NOTES TO CONSTRUCTION DETAILS:**

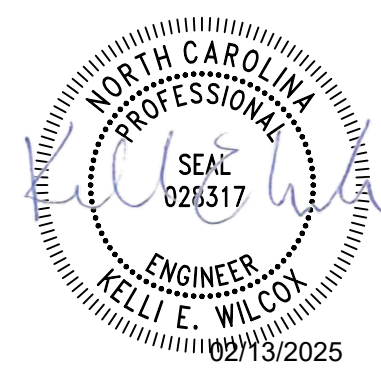
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No.	REVISION	By	Date

DRAWN BY: TJF  
 ENGINEER: KEW  
 APPROVAL: KEW  
 DATE: FEB 2025  
 PROJ.: J2811 SCALE: AS SHOWN  
 DWG. NO.

7.0





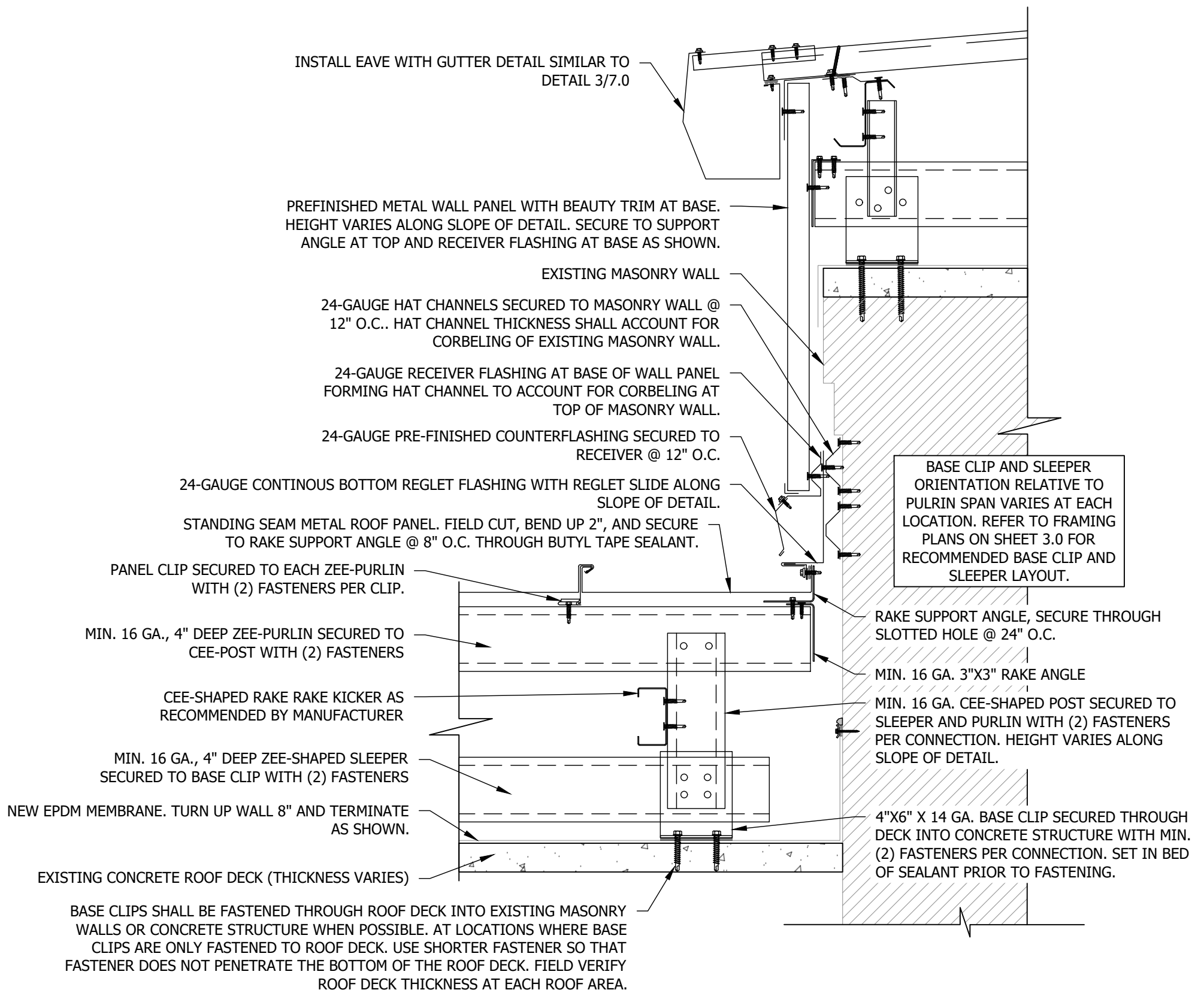
**CONSTRUCTION DETAILS - FRONT  
 ENTRANCE ROOF AND CONNECTOR ROOFS**  
 KENDALL BUILDING ROOF REPLACEMENT  
 CASWELL DEVELOPMENTAL CENTER, KINSTON, NC  
 SCO ID#: 22-25783-01B; CODE:42240; ITEM:429074

No.	REVISION	By	Date

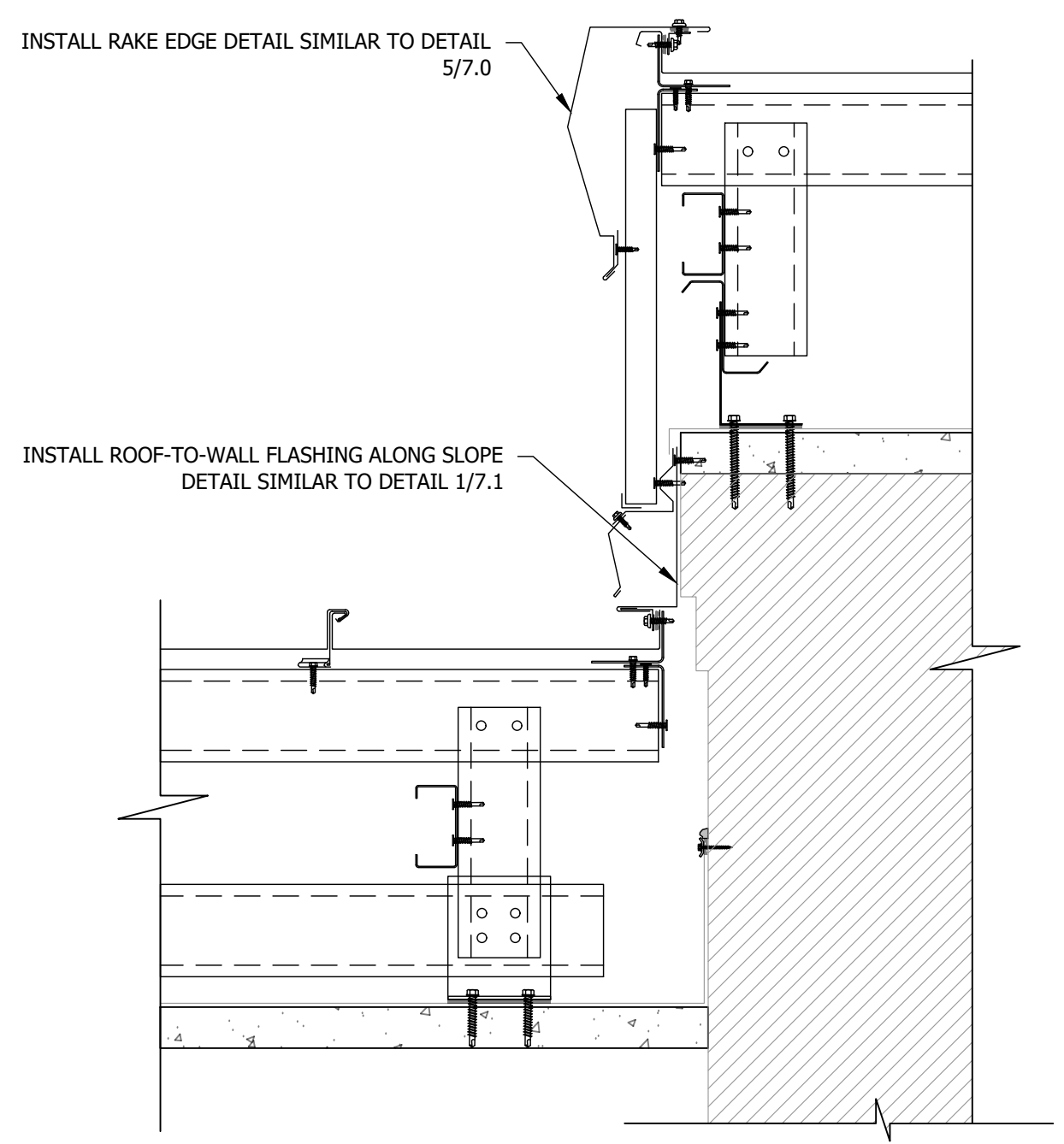
DRAWN BY: TJF  
 ENGINEER: KEW  
 APPROVAL: KEW  
 DATE: FEB 2025  
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7.1

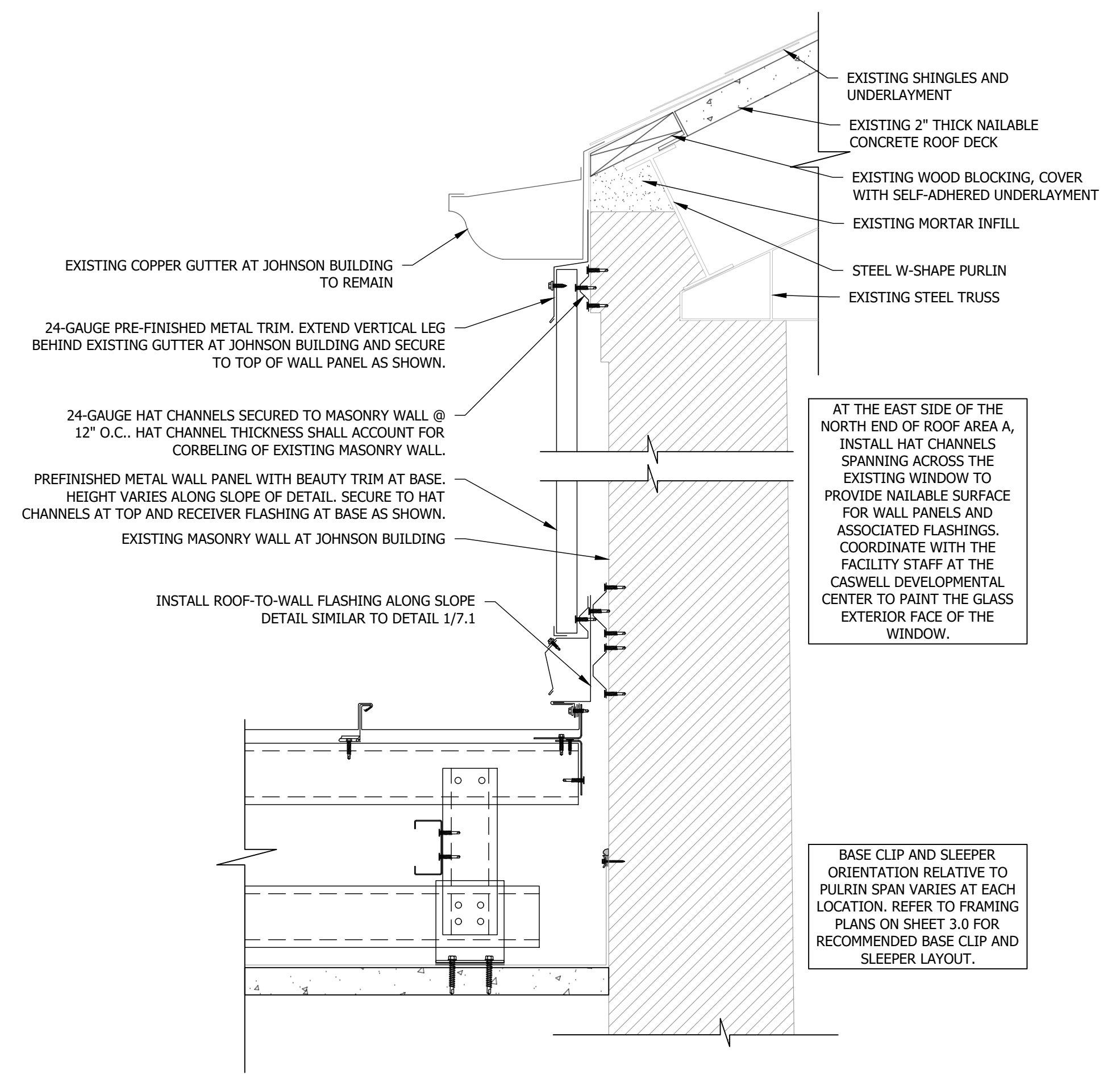
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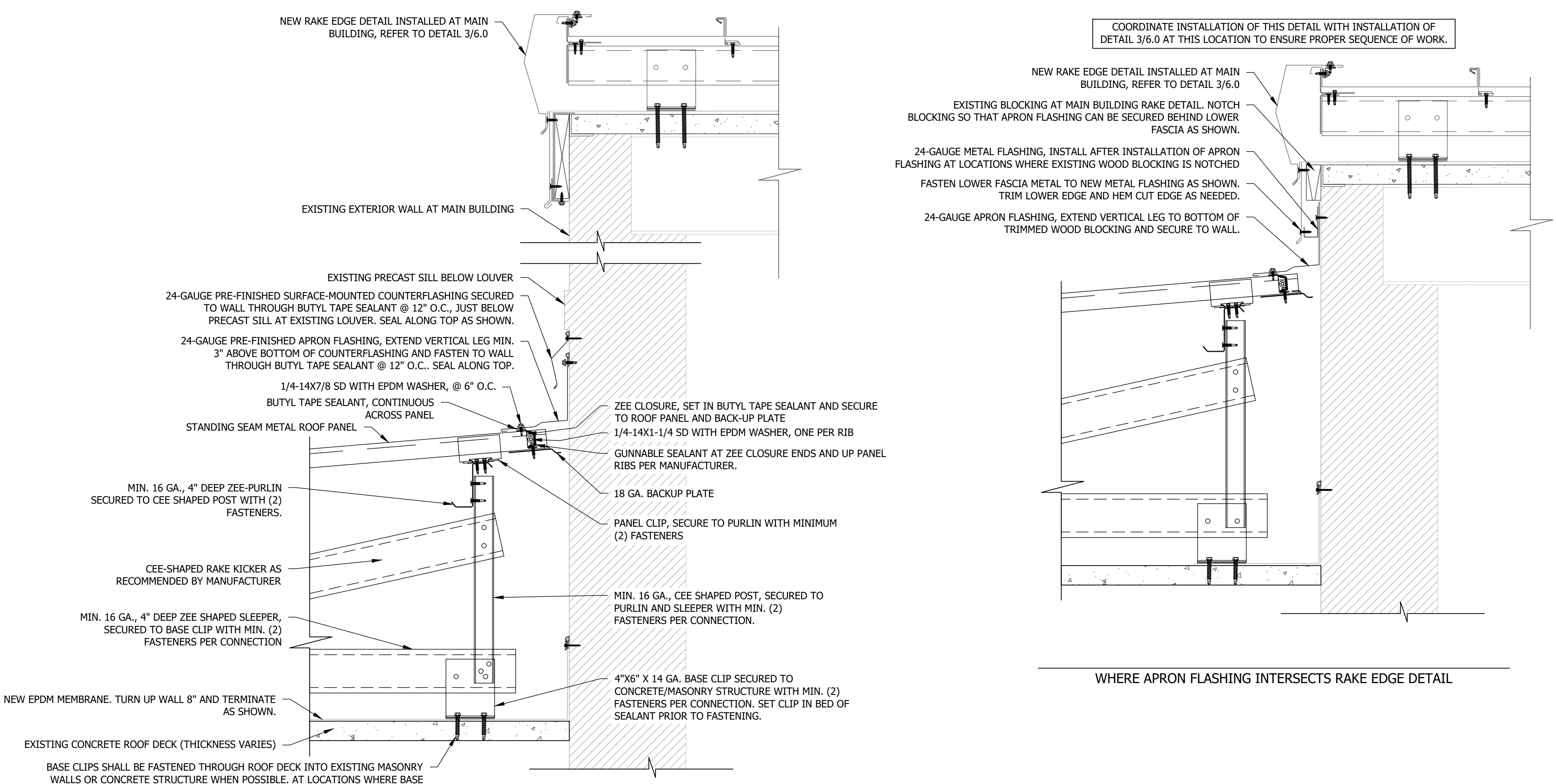
1  
7.1 CONNECTOR ROOFS - EAVE W/ GUTTER AND ROOF-TO-WALL FLASHING  
SCALE: 1-1/2" = 1'-0"



2  
7.1 CONNECTOR ROOFS - RAKE EDGE AND ROOF-TO-WALL FLASHING  
SCALE: 1-1/2" = 1'-0"



3  
7.1 CONNECTOR ROOFS - ROOF-TO-WALL FLASHING AT ROOF AREA A  
SCALE: 1-1/2" = 1'-0"

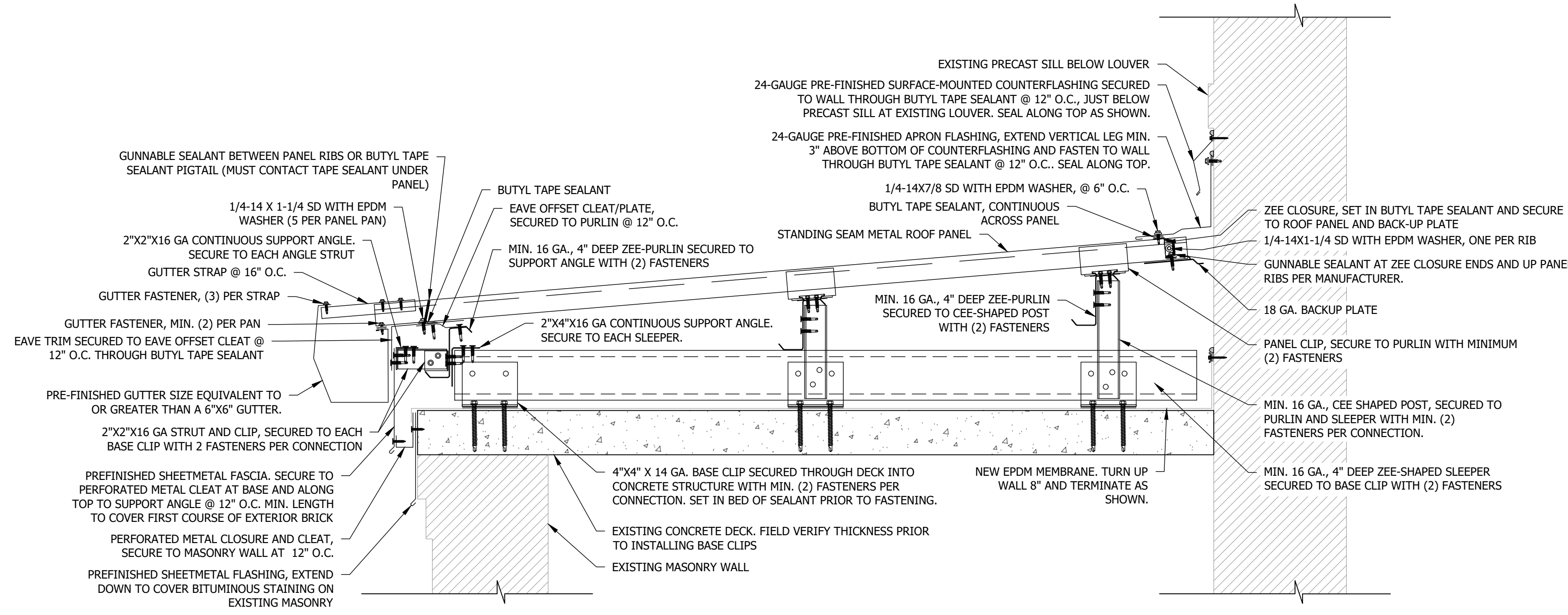


4  
7.1 CONNECTOR ROOFS - APRON FLASHING AT ROOF AREA C  
SCALE: 1-1/2" = 1'-0"

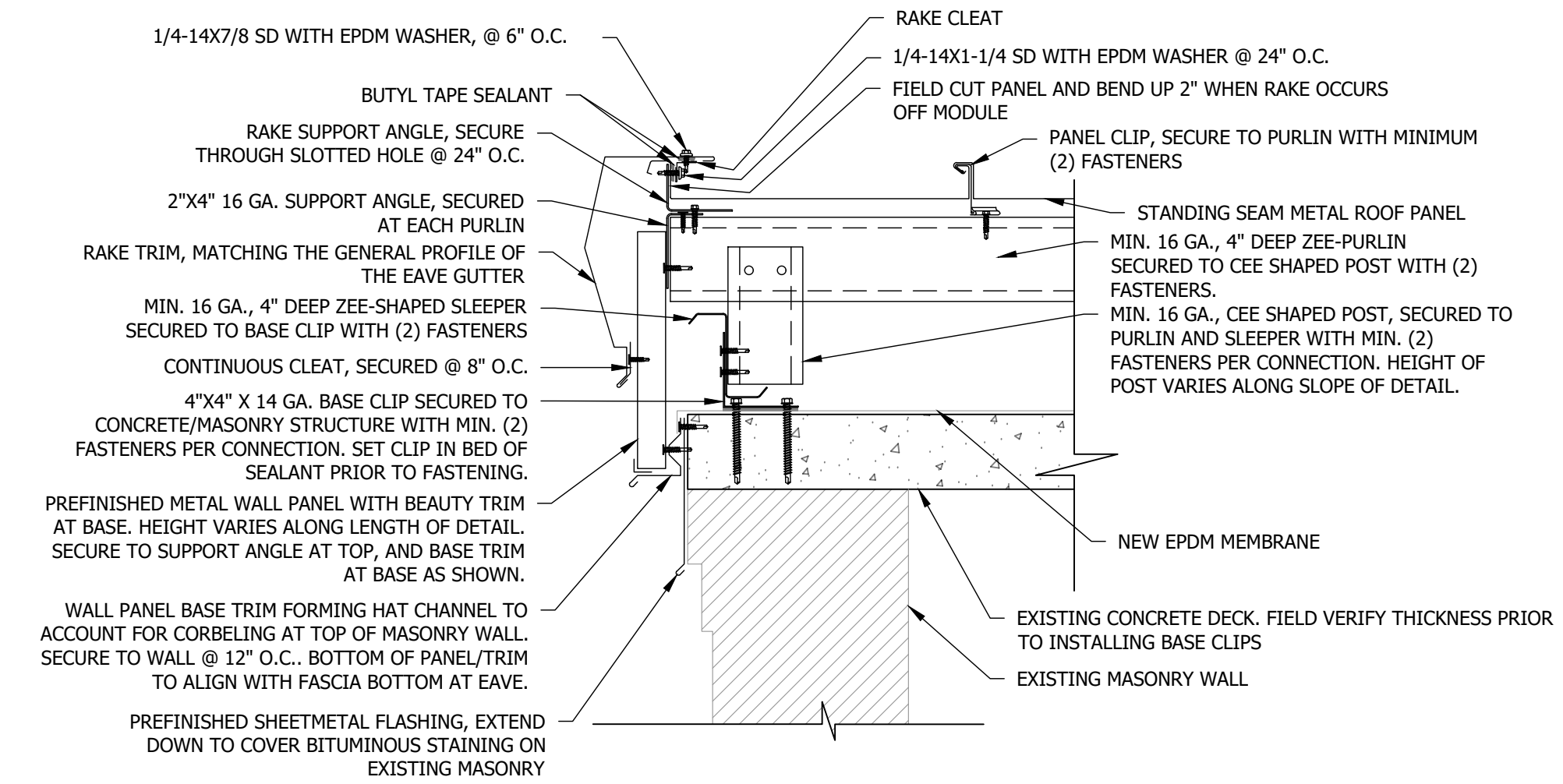
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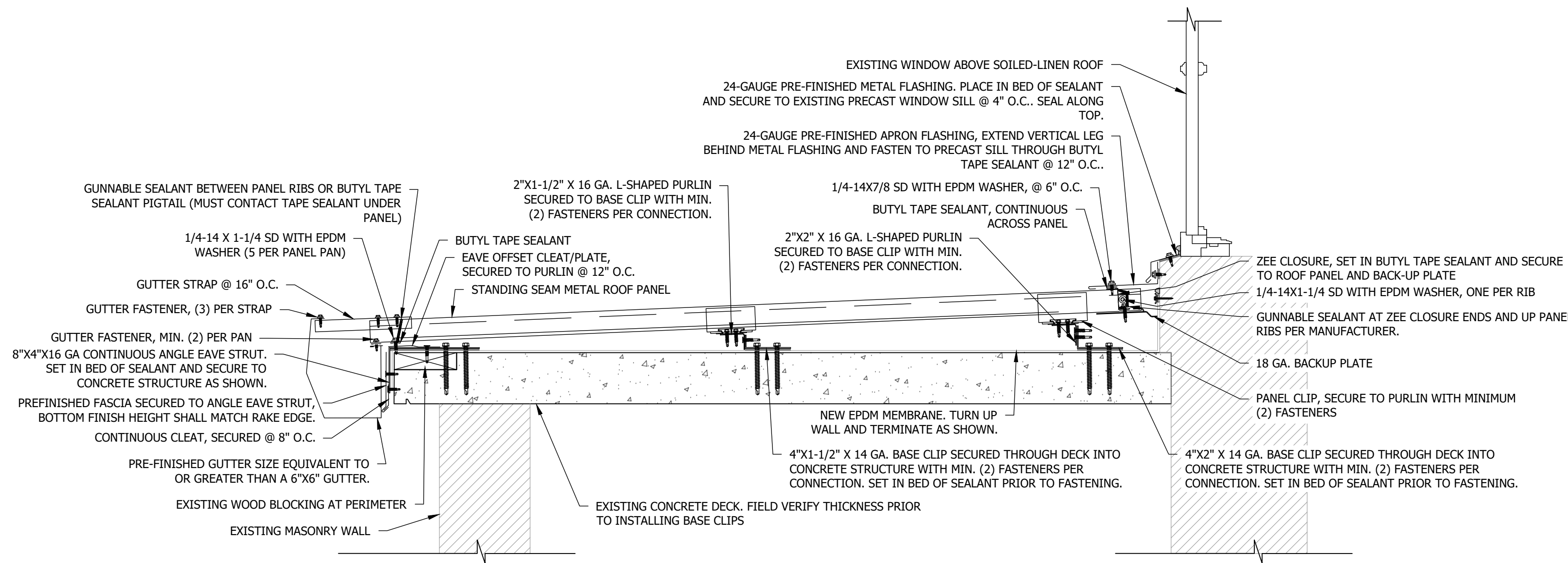




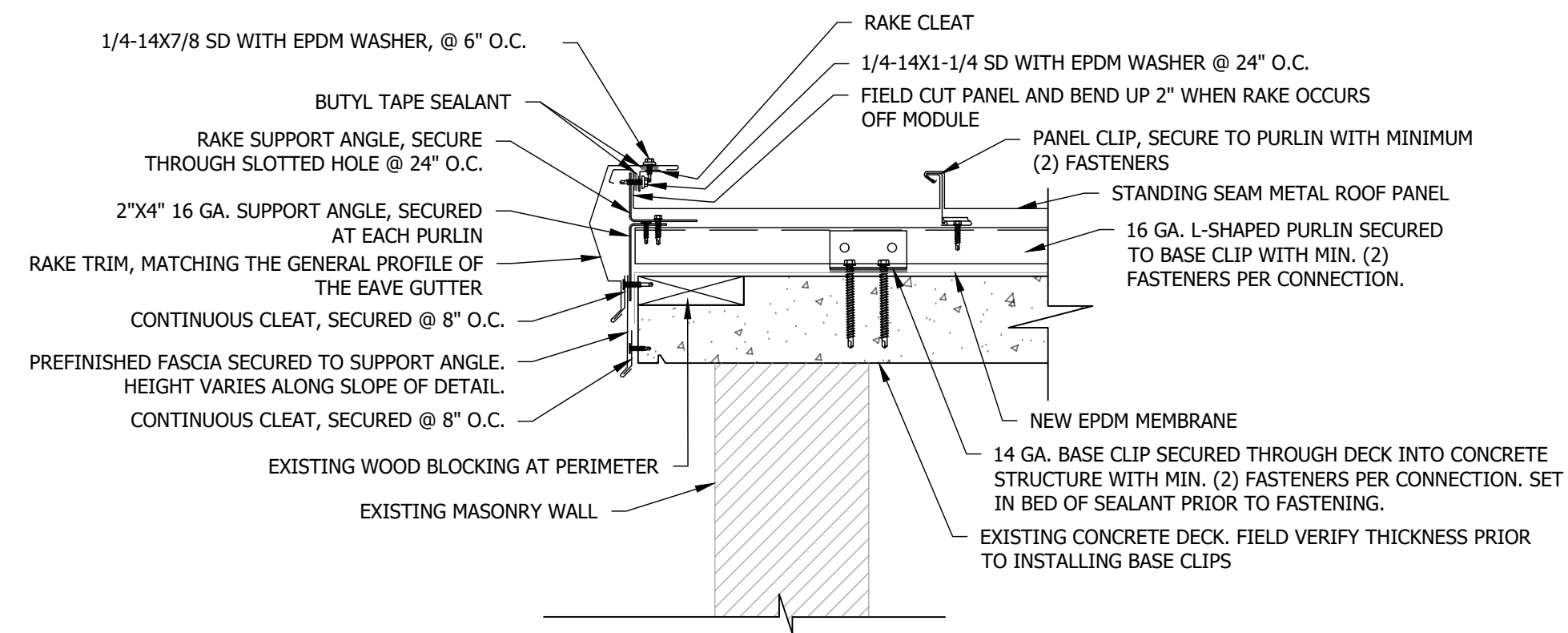
**1**  
 8.0 FRONT ENTRANCE ROOF - EAVE W/ GUTTER AND APRON FLASHING  
 SCALE: 1-1/2" = 1'-0"



**2**  
 8.0 FRONT ENTRANCE ROOF - RAKE EDGE  
 SCALE: 1-1/2" = 1'-0"



**3**  
 8.0 SOILED LINEN ROOFS - EAVE W/ GUTTER AND APRON FLASHING  
 SCALE: 1-1/2" = 1'-0"



**4**  
 8.0 SOILED LINEN ROOFS - RAKE EDGE  
 SCALE: 1-1/2" = 1'-0"

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**CONSTRUCTION DETAILS - PARROTT BUILDING (BID ALT. 01)**  
 KENDALL BUILDING ROOF REPLACEMENT  
 CASWELL DEVELOPMENTAL CENTER, KINSTON, NC  
 SCO ID#: 22-25783-01B; CODE:42240; ITEM:429074

No.	REVISION	By	Date

DRAWN BY: T J F  
 ENGINEER: KEW  
 APPROVAL: KEW  
 DATE: FEB 2025  
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 DWG. NO.

8.0