



**DESIGN & CONSTRUCTION GROUP  
THE GOVERNOR NELSON A. ROCKEFELLER  
EMPIRE STATE PLAZA  
ALBANY, NY 12242**

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**ADDENDUM NO. 3 TO PROJECT NO. 47599**

**CONSTRUCTION WORK  
REPAIR ROOF, STATE ARMORY  
321 MANOR ROAD  
STATEN ISLAND, NY**

August 27, 2024

**NOTE:** This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

**BIDDING REQUIREMENTS**

1. DOCUMENT 001114 ADVERTISEMENT FOR BIDS: The last date for receipt of bids is changed from Wednesday, August 28, 2024, to 2:00 pm Wednesday, September 11, 2024.

**CONSTRUCTION WORK**

2. SECTION 070150 MODIFICATIONS TO EXISTING WARRANTIED ROOF SYSTEM: Add the accompanying Section (page 070150 – 1 thru 070150 – 3) to the Project Manual.

**APPENDIX**

3. SCHEDULE OF SUBMITTALS: Discard the Document bound in the Project Manual and substitute the accompanying Document (pages 1 thru 5) noted “REVISED 08/26/2024”.

**CONSTRUCTION DRAWINGS**

4. Revised Drawings:
  - a. Drawing Nos. S-101, A-001, A-202, A-501, A-502, A-503, A-504, A-505, A-506, A-507, and A-508 noted “REVISED DRAWING 08/26/2024”, accompany this Addendum and supersede the same numbered originally issued drawings.

**END OF ADDENDUM**

Brady M. Sherlock, P.E.  
Director, Division of Design  
& Construction

## SECTION 070150

### MODIFICATIONS TO EXISTING WARRANTIED ROOF SYSTEM

#### PART 1 GENERAL

##### 1.01 RELATED WORK SPECIFIED ELSEWHERE

- A. Wood Nailers and Blocking: Section 061053.

##### 1.02 SYSTEM DESCRIPTION

- A. The Work of this Section consists of minor modifications to the existing warrantied roof system.
  - 1. Existing Type of Roof System: Modified Bitumen.
  - 2. Existing Roof System Manufacturer: Certainteed.

##### 1.03 SUBMITTALS

- A. Waiver of Submittals: The "Waiver of Certain Submittal Requirements" in Section 013300 does not apply to this Section.
- B. Submittals Package: Submit the product data and quality control submittals specified below at the same time in one complete package. Partial submittal will not be considered.
- C. Product Data:
  - 1. Membrane manufacturer's installation instructions and details for the Work of this Section.
  - 2. Manufacturer's data sheets for all materials required for the Work of this Section.
- D. Quality Control Submittals:
  - 1. Applicator's Certification: Letter from the existing roof system manufacturer certifying that the applicator is licensed or approved to perform the Work of this Section.
  - 2. Material Certification: Letter from the existing roof system manufacturer certifying that the materials used for the Work of this Section are approved for use with the existing system.
  - 3. Warranty Certification: Letter from the existing roof system manufacturer certifying that the Work of this Section will not modify or void the existing warranty.

##### 1.04 QUALITY ASSURANCE

- A. Applicator's Qualifications: The Work of this Section shall be performed by an applicator licensed or approved by the existing roof system manufacturer.
- B. Material Certification: The materials used for the Work of this Section shall be approved by the existing roof system manufacturer.

- C. Warranty Certification: The Work of this Section shall not modify or void the existing roof system warranty.
  - 1. Submit a copy of the Contract Documents to the existing roof system manufacturer for review and approval.
- D. Pre-Installation Conference: At the discretion of the Director's Representative, a conference may be called before the Work is scheduled to commence for the purpose of reviewing the Drawings and the Specifications and discussing requirements for the Work. The conference shall be attended by the Contractor, the authorized roofing applicator and if necessary, a representative of the existing roof system manufacturer.

### **1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Delivery: Deliver materials to the site in the manufacturer's labeled, unbroken containers.
- B. Storage and Handling: Store materials in a dry, well ventilated place protected from the weather.
  - 1. Volatile liquids shall be stored in a separate storage building or trailer, or removed from the Site at the end of each work day.
  - 2. Store volatile liquids at temperatures recommended by the manufacturer.
  - 3. Store adhesives at temperatures between 60 degrees F and 80 degrees F.

### **1.06 PROJECT CONDITIONS**

- A. Do not execute the Work of this Section unless the Director's Representative is present, unless otherwise directed in writing.
- B. Do not execute the Work of this Section unless the substrate is dry and free of dirt and debris.
- C. Moisture Protection:
  - 1. Cover, seal or otherwise protect the roof and flashings so that water cannot accumulate or flow under completed portions. When and where necessary to accomplish this, provide temporary water cut-offs in accordance with the membrane manufacturer's written specifications.
  - 2. Limit the removal of existing materials to areas that can be completely re-roofed or temporarily protected within the same day.
- D. Do not smoke or use open flames near volatile materials.

## **PART 2 PRODUCTS**

### **2.01 MATERIALS**

- A. Provide all the materials required to complete the Work of this Section. All materials shall be approved by the existing roof system manufacturer.

## **PART 3 EXECUTION**

### **3.01 INSTALLATION**

- A. Install the Work of this Section as shown on the Contract Drawings and in accordance with the existing roof system manufacturer's written instructions.
  - 1. Install the Work of this Section so that the watertight integrity of the existing system is not compromised.

**END OF SECTION**



<b>SCHEDULE OF SUBMITTALS</b>	
<b>PROJECT NO.: 47599 - C</b>	
<b>FACILITY: STATE ARMORY - STATEN ISLAND</b>	
<b>CONTRACTOR:</b>	
<b>PROJECT MANAGER:</b>	
<b>DESIGN CONSULTANT: SPRING LINE DESIGN ARCHITECTURE+ENGINEERING</b>	
<b>ENGINEER-IN-CHARGE:</b>	
<p style="text-align: center;"><b>LEGEND</b></p> <p><b>PACK:</b> SUBMITTAL PACKAGE</p> <p><b>SD:</b> SHOP DRAWINGS</p> <p><b>PD:</b> PRODUCT DATA</p> <p><b>EPD:</b> ENVIRONMENTAL PRODUCT DECLARATION</p> <p><b>SAM:</b> SAMPLES</p> <p><b>QCS:</b> QUALITY CONTROL SUBMITTALS</p> <p><b>LEED:</b> LEED SUBMITTALS</p> <p><b>CCS:</b> CONTRACT CLOSEOUT SUBMITTALS</p> <p><b><u>SUBMITTAL REVIEW RESPONSIBILITY:</u></b>  <b>F:</b> OGS FIELD OFFICE  <b>F/O:</b> OGS FIELD OFFICE / OFFICE (ALBANY)  <b>D:</b> CONSULTANT / DESIGNER  <b>S:</b> OGS SCHEDULING DEPARTMENT  <b>RSM:</b> Regional Safety Manager</p>	<p style="text-align: center;"><b><u>INSTRUCTIONS TO THE CONTRACTOR</u></b></p> <ol style="list-style-type: none"> <li>Refer to <b>Section 013300 Submittals</b> of the Project Manual for general requirements regarding submittals and to <b>Section 017716 - CONTRACT CLOSEOUT</b> for project closeout submittals.</li> <li>Refer to Sections of the specifications indicated herein for details of the requirements for each submittal listed.</li> <li>Indicate in the rows (spaces) following each item:                         <ol style="list-style-type: none"> <li>Critical submittals and long lead items (mark with an 'X'). Some critical submittals may already be identified by the design team. Confirm that these are critical submittals.</li> <li>The date the item will be submitted, and date approval is required (allow at least 3 weeks), and the date delivery of the material or equipment is necessary for completion of the work in accordance with the Progress Schedule. The date entered for the submittal is the last date a substitution will be considered. Proposed substitutions must be made prior to the date entered if more than one substitution is to be submitted for approval. Spaces which contain N/A do not require dates.</li> </ol> </li> <li>An example of a Submittal Transmittal (BDC-42) can be located at: <a href="http://www.ogs.ny.gov/BU/DC/forms/ContractorConstForms.asp">http://www.ogs.ny.gov/BU/DC/forms/ContractorConstForms.asp</a></li> <li>Submit Contract Closeout Submittals (CCS) prior to final inspection.</li> </ol> <p style="text-align: center;"><b><u>INSTRUCTIONS TO THE CONSULTANT / DESIGNER</u></b></p> <ol style="list-style-type: none"> <li>Cut and paste required information from each Division (Div.X) tab and place in the S.O.S. tab.</li> <li>Delete Division (Div.X) tabs after the S.O.S. tab has been in-filled.</li> <li>Indicate F, F/O or D in column E. Items in Div.1 have defaults that can be modified as necessary.</li> <li>Indicate items that are critical submittals in column F.</li> </ol> <p><b><u>Note:</u></b>                      The following list of submittals is furnished for your convenience in scheduling submittals. The list is not warranted to be complete and does not take precedence over the contract documents. Enter additional submittals, as required and modify this schedule to the specific project. This S.O.S. will be used to populate the submittals website log.</p>



SCHEDULE OF SUBMITTALS								
PROJECT NO.: 47599 - C								
SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
<b>007213</b>			<b>GENERAL CONDITIONS</b>					
<b>007213</b>	<b>6.1</b>	<b>PD</b>	ARTICLE 6: Designate in writing competent supervision and/or management representatives as required - <b>include contact number in case of an emergency after work hours, including weekends and holidays (see 011000 Summary of Work)</b>	F				
<b>007213</b>	<b>8.1</b>	<b>PD</b>	ARTICLE 8: Permits and licenses	F				
<b>011100</b>			<b>SAFETY</b>					
<b>011100</b>	<b>1.04.A</b>	<b>QCS</b>	Site Specific Safety Plan	RSM				
<b>011100</b>	<b>1.04.B</b>	<b>QCS</b>	Employee Safety Orientation Training and Certificates	F				
<b>011100</b>	<b>1.04.D</b>	<b>QCS</b>	Emergency Action and Evacuation Plan	F				
<b>013300</b>			<b>SUBMITTALS</b>					
<b>013300</b>	<b>1.07.B</b>	<b>PD</b>	Schedule of Submittals (Fill in the SET DATES column)	F	X			
<b>013300</b>	<b>1.07.A</b>	<b>QCS</b>	Submittal Coordinator Qualifications	F/O	X			
<b>017716</b>			<b>CONTRACT CLOSEOUT</b>					
<b>017716</b>	<b>1.04</b>	<b>CCS</b>	Project Record Documents	F				
<b>017716</b>	<b>1.05</b>	<b>CCS</b>	Operation and maintenance, 2 copies	F				
<b>017716</b>	<b>1.06</b>	<b>CCS</b>	Warranties	F				
<b>017716</b>	<b>1.07</b>	<b>CCS</b>	Spare Parts and Maintenance Materials	F				
<b>028213</b>			<b>ASBESTOS ABATEMENT</b>					
<b>028213</b>	<b>2.01</b>	<b>PD</b>	Disposal Bags	D				
<b>028213</b>	<b>2.03</b>	<b>PD</b>	Glove Bags	D				
<b>028213</b>	<b>2.04</b>	<b>PD</b>	Negative Air Pressure Units	D				
<b>028213</b>	<b>2.06</b>	<b>PD</b>	Respirators	D				
<b>028213</b>	<b>2.07</b>	<b>PD</b>	Vacuum Cleaners	D				
<b>028213</b>	<b>1.07.B.1</b>	<b>QCS</b>	Asbestos Site Specific Variance Submittals; if a site specific variance is sought submit the following: One copy of the completed DOSH-751 and DOSH-465 forms	D				
<b>028213</b>	<b>1.07.B.2</b>	<b>QCS</b>	Asbestos Site Specific Variance Submittals; if a site specific variance is sought submit the following: One copy of the New York State Department of Labor site specific variance decision.	D				
<b>028213</b>	<b>1.07.C.1</b>	<b>QCS</b>	Notification Compliance Data	D				
<b>028213</b>	<b>1.07.C.4</b>	<b>QCS</b>	Work Plan	D				
<b>028213</b>	<b>1.07.C.2</b>	<b>QCS</b>	Abatement Contractor's Qualifications Data	D				
<b>028213</b>	<b>1.07.C.3</b>	<b>QCS</b>	Abatement Worker's Qualifications Data	D				
<b>028213</b>	<b>1.07.C.5</b>	<b>QCS</b>	Waste Transporter Permit	D				
<b>028213</b>	<b>1.07.C.6</b>	<b>QCS</b>	Landfill Permit	D				
<b>028213</b>	<b>1.07.D.1</b>	<b>CCS</b>	Waste Shipment Records and Disposal Site Receipts	F				

# SCHEDULE OF SUBMITTALS

**PROJECT NO.: 47599 - C**

SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
028213	1.07.E.1	CCS	Daily Log	F				
028213	1.07.E.2	CCS	Air Monitoring Data	F				
<b>028304</b>								
<b>HANDLING OF LEAD CONTAINING MATERIALS</b>								
028304	1.06.A.2	QCS	Work Plan	D				
028304	1.06.A.1	QCS	Lad Handling Worker's Qualifications Data	D				
028304	1.06.A.3	QCS	Waste Transporter Permit	D				
028304	1.06.C.2	CCS	Disposal Site Receipts	F				
<b>030131</b>								
<b>CONCRETE REHABILITATION</b>								
030131	2.02.B.1	PD	Cement/Acrylic/Latex Base Patching Mortar Type C-1	D				
030131	2.02.B.2	PD	Cement/Acrylic/Latex Base Patching Mortar Type C-2	D				
030131	2.02.C	PD	Rebar Coating	D				
030131	2.02.D	PD	Cleaning Agent, Bonding Agent/Primer, Sealer/Topcoat	D				
030131	2.02.E	PD	Concrete and Bonding Agent	D				
030131	1.02.B	QCS	Step-by-step procedures for concrete rehabilitation for each type of repair	D				
<b>040121</b>								
<b>MASONRY RESTORATION</b>								
040121	2.01.B	PD	Portland Cement	D				
040121	2.01.C	PD	Lime	D				
040121	2.01.D	PD	Mortar Cement	D				
040121	2.01.E	PD	Sand	D				
040121	2.01.F	PD	Mortar Pigments	D				
040121	2.01.K	PD	Non-Shrink Grout	D				
040121	1.01.B.1	SAM	Mortar for Exposed Joints and Cracks	F				
040121	1.01.B.2	SAM	Masonry Units	F				
040121	1.01.C	QCS	Preconstruction test reports for existing mortar, existing brick, and replacement brick.	D	X			
<b>055000</b>								
<b>METAL FABRICATIONS</b>								
055000	1.02.A	SD	Application to Project: Indicate shop and field welds by standard AWS welding symbols in accordance with AWS A2.4.	D				
055000	2.01.D	PD	Anchors	D				
055000	2.01.F	PD	Bedding Mortar	D				
055000	1.02.B	EPD	Environmental Product Declaration	D				
<b>070150</b>								
<b>MODIFICATIONS TO EXISTING WARRANTIED ROOF SYSTEM</b>								
070150	1.03.B	PACK	Submit the product data and quality control submittals specified below at the same time in one complete package	D				
<b>071900</b>								
<b>WATER REPELLENT COATING</b>								
071900	2.02.A.2	PD	Type 1 Water Repellent	D				
071900	1.02.B	SAM	Type 1 Water Repellent	F				
<b>074113</b>								
<b>PREFORMED METAL SOFFIT</b>								

# SCHEDULE OF SUBMITTALS

**PROJECT NO.: 47599 - C**

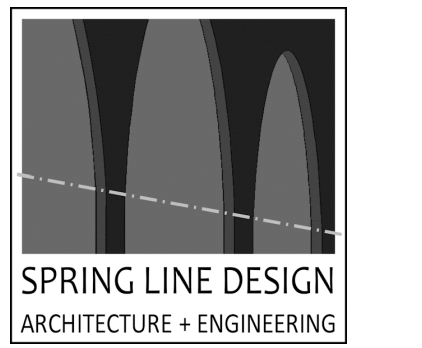
SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
074113	1.02.A	PD	Submit product data, shop drawings, and any proposed deviations from the Contract Documents, at the same time as one complete package	D				
074113	1.02.B	SAM	Color Samples	F				
074113	1.02.C	SAM	Soffit Panel. Include closures, trim, and other metal panel accessories	F				
074113	1.02.D	CCS	Warranties: Specified warranties	F				
075323			<b>ADHERED EPDM ROOFING SYSTEM</b>					
075323	1.04.K	PACK	Submit all items, except contract closeout submittals and SDS, at one time as a complete package.	D				
075323	1.04.G.1	SAM	Sheet Membrane	F				
075323	1.04.G.2	SAM	Sheet Flashing	F				
075323	1.04.G.3	SAM	EPDM Coverly Tape	F				
075323	1.04.G.4	SAM	Inseam Tape	F				
075323	1.04.G.5	SAM	Fasteners	F				
075323	1.04.G.6	SAM	Insulation	F				
075323	1.04.G.7	SAM	Coverboard	F				
075323	1.04.G.8	SAM	Underlayment Board	F				
075323	1.04.G.9	SAM	Self-Adhesive Vapor Retarder	F				
075323	1.09.A	CCS	Warranty Extension	F				
075323	1.09.B	CCS	Manufacturer's Warranty	F				
075601			<b>LIQUID APPLIED ROOF COATING SYSTEM</b>					
075601	1.03.A	PACK	Manufacturer's catalog sheets, specifications, and installation instructions for each item specified	D				
075601	1.03.B	QCS	Company Field Advisor	D				
075601	1.03.C.1	CCS	Maintenance Data	F				
075601	1.03.C.2	CCS	Warranty: Copy of specified warranty	F				
076000			<b>FLASHING AND TRIM</b>					
076000	1.04.A	SD	Show the manner of forming, jointing and securing the metal flashings and trim	D				
076000	2.01.A	PD	Prefinished Aluminum Sheet	D				
076000	2.02.A	PD	Nails	D				
076000	2.02.B	PD	Screws, Bolts and other Fastening Accessories	D				
076000	2.02.C	PD	Anchors	D				
076000	1.04.C.1	SAM	Materials for Flashings	F				
076000	1.04.C.2	SAM	Anchors	F				
076000	1.04.C.3	SAM	Cap Flashings	F				
076000	1.04.C.4	SAM	Coping	F				
077123			<b>GUTTERS AND DOWNSPOUTS (Commercial Type)</b>					
077123	2.01.B	PD	Sealant	D				
077123	2.03	PD	Splash Pad	D				
077123	1.02.C	SD	Shop Drawings: Show method of forming, jointing, and securing the gutters and downspouts. Include attachment to adjoining construction	D				
077123	1.02.B.1	SAM	Gutter	F				
077123	1.02.B.2	SAM	Downspout	F				

# SCHEDULE OF SUBMITTALS

**PROJECT NO.: 47599 - C**

SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
077123	1.02.B.3	SAM	Hanger Brackets, Braces, and Stiffeners	F				
077123	1.02.B.4	SAM	Fasteners	F				
077123	1.02.B.5	SAM	Color Samples	F				
079200			<b>JOINT SEALERS</b>					
079200	2.01.A	PD	Type 1 Sealant	D				
079200	2.01.B	PD	Type 3 Sealant	D				
079200	2.01.C	PD	Sealant Colors	D				
079200	2.02.A	PD	Fire Barrier System for Expansion Joint	D				
079200	2.03.A	PD	Joint Primer/Sealer/Conditioner	D				
079200	2.03.B	PD	Backer Rod	D				
079200	2.03.C	PD	Cleaning Solvents	D				
079200	1.01.C.1	SAM	Sealant	F				
079200	1.01.C.2	SAM	Joint Primer/Sealer/Conditions	F				
079200	1.01.C.3	SAM	Backer Rods	F				
092300			<b>PLASTERING</b>					
092300	2.01	PD	Lime-Portland Cement Stucco Materials	D				
092300	2.02.B	PD	Bonding Compound	D				
092300	2.03.A	PD	Corner Beads	D				
092300	2.03.B	PD	Casing Beads	D				
092300	2.03.C	PD	Base Screeds	D				
092300	2.03.CD	PD	Expanded Metal Reinforcement	D				
092300	1.01.B.1	QCS	Sand	D				

CONSULTANT  
CERTIFICATE OF AUTHORIZATION No.: 0019551



**ENERGY CODE STATEMENT:**

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CODE.

**UNIFORM CODE STATEMENT:**

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

**WARNING:**

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND A CLASS 'A' MISDEMEANOR.



**CONSTRUCTION**

TITLE: REPAIR ROOF STATE ARMORY

LOCATION: BUILDING No. 71  
321 MANOR ROAD  
STATEN ISLAND, NY

CLIENT: DIVISION OF MILITARY AND NAVAL AFFAIRS

REVISED DRAWING 08/26/2024

MARK	DATE	DESCRIPTION
△	08/26/2024	ADDENDUM 3
△	08/07/2024	ADDENDUM 1
	05/24/2024	BID DOCUMENT

PROJECT NUMBER: 47599 - C

DESIGNED BY: KK

DRAWN BY: SS

FIELD CHECK:

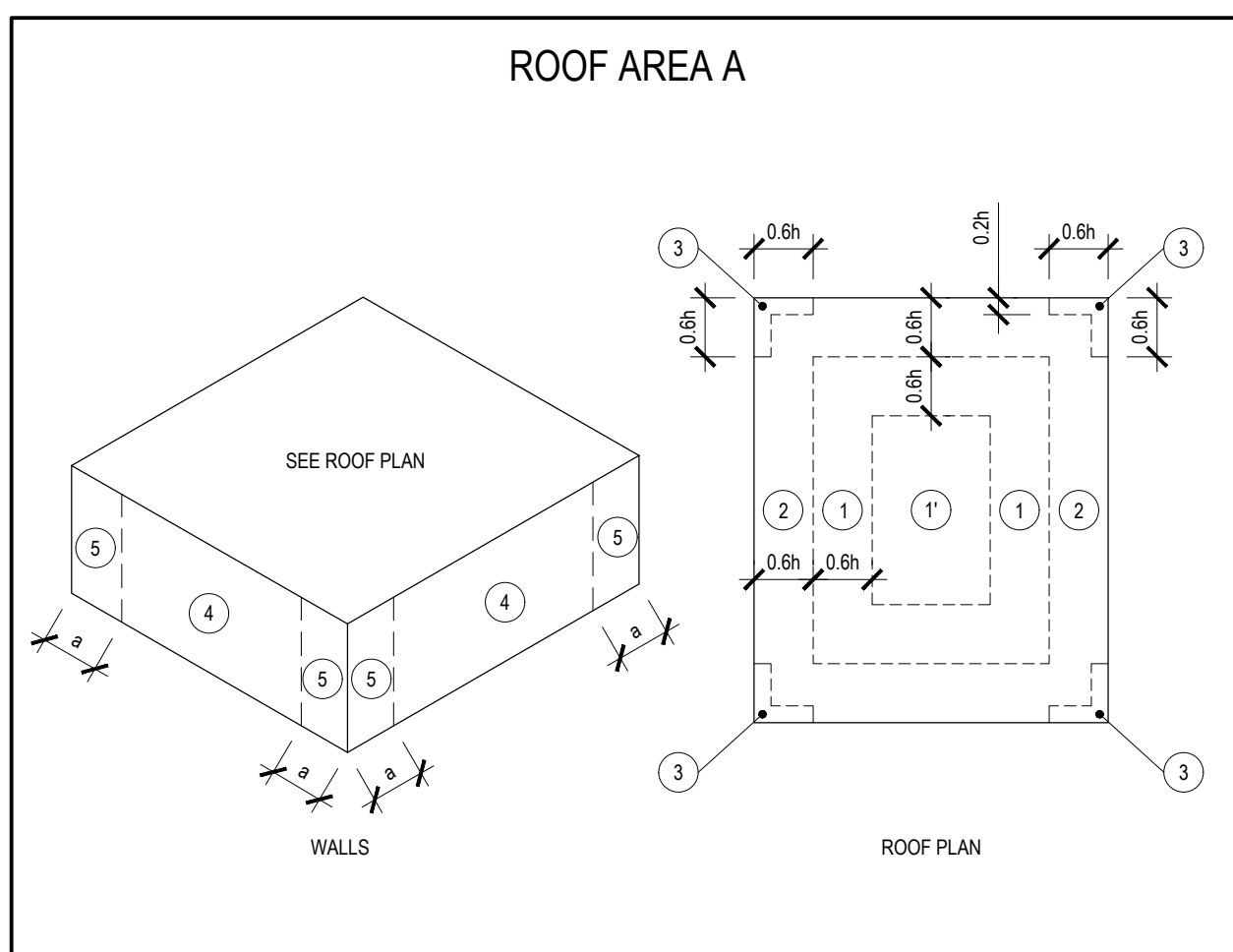
APPROVED:

SHEET TITLE:  
ROOF WIND UPLIFT PLANS AND PARTIAL STRUCTURAL REFLECTED CEILING PLAN

DRAWING NUMBER:

**S-101**

SHEET 3 OF 20

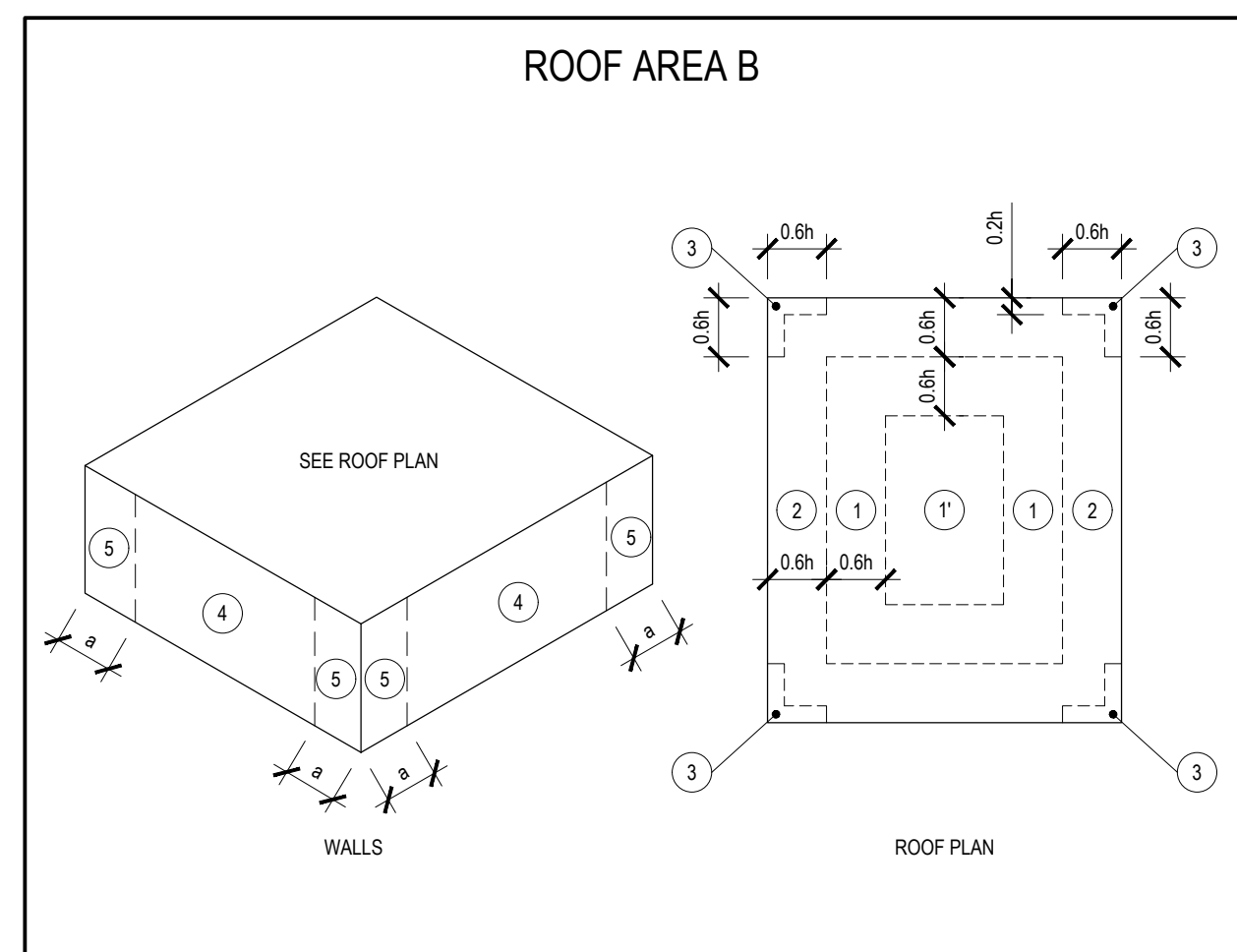


**COMPONENTS AND CLADDING WIND PRESSURES (ASCE 7-16)**

DISTANCE 'a' = 20 FT DISTANCE 'b' = 33 FT DISTANCE '0.6h' = 20 FT EFFECTIVE WIND AREA = 10 SF

ZONE	LRFD WIND PRESSURE	ASD WIND PRESSURE
A-1	-69 PSF	-41 PSF
A-1'	-40 PSF	-24 PSF
A-2	-91 PSF	-55 PSF
A-3	-124 PSF	-74 PSF

NOTES:  
1. VALUES ARE CALCULATED ACCORDING TO ASCE 7-16 C&C PART 1 FOR BUILDING HEIGHT h ≤ 60 FT.  
FLAT ROOF (SLOPE θ ≤ 3°)

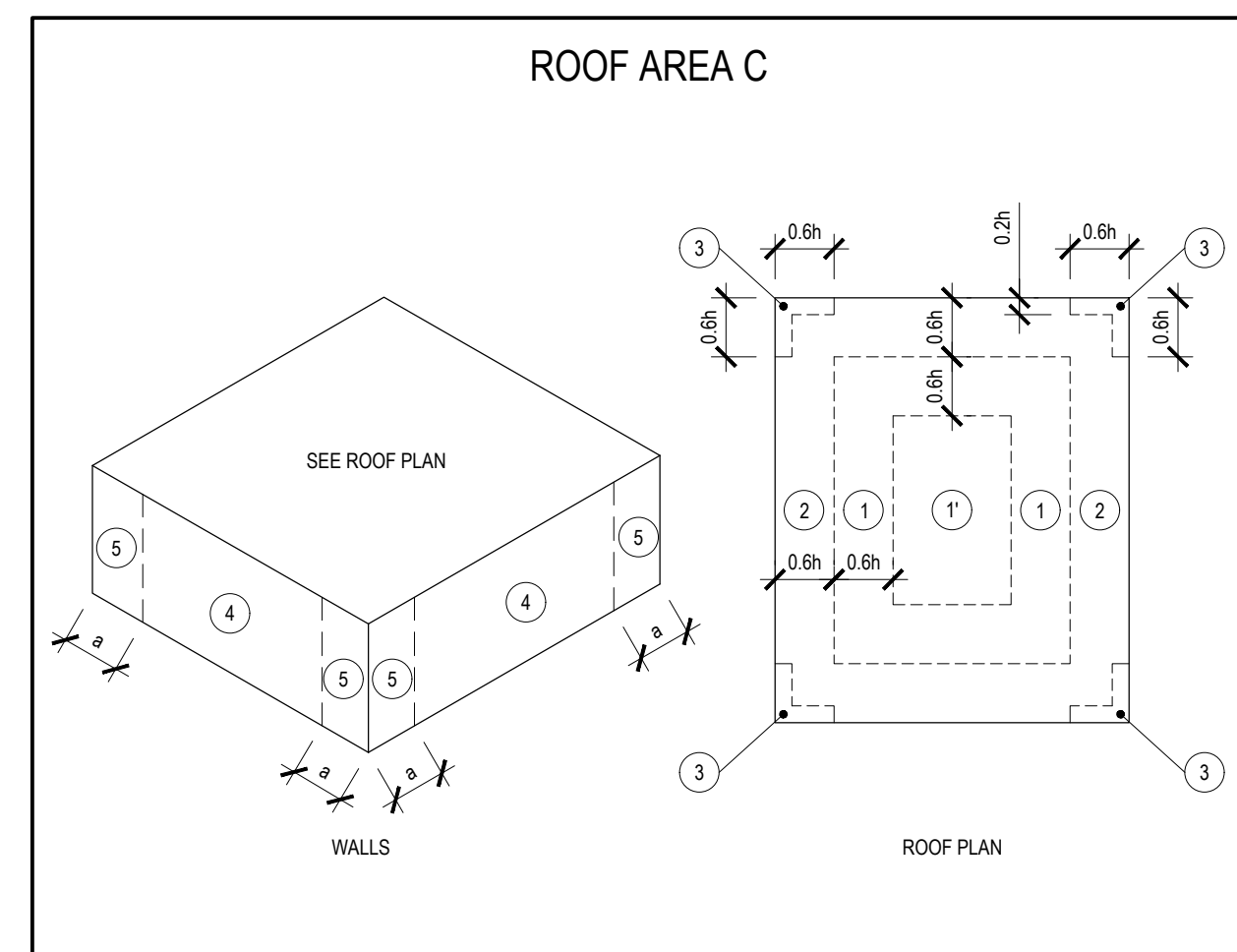


**COMPONENTS AND CLADDING WIND PRESSURES (ASCE 7-16)**

DISTANCE 'a' = 12 FT DISTANCE 'b' = 20 FT DISTANCE '0.6h' = 12 FT EFFECTIVE WIND AREA = 10 SF

ZONE	LRFD WIND PRESSURE	ASD WIND PRESSURE
B-1	-62 PSF	-37 PSF
B-1'	-36 PSF	-21 PSF
B-2	-82 PSF	-49 PSF
B-3	-112 PSF	-67 PSF

NOTES:  
1. VALUES ARE CALCULATED ACCORDING TO ASCE 7-16 C&C PART 1 FOR BUILDING HEIGHT h ≤ 60 FT.  
FLAT ROOF (SLOPE θ ≤ 3°)

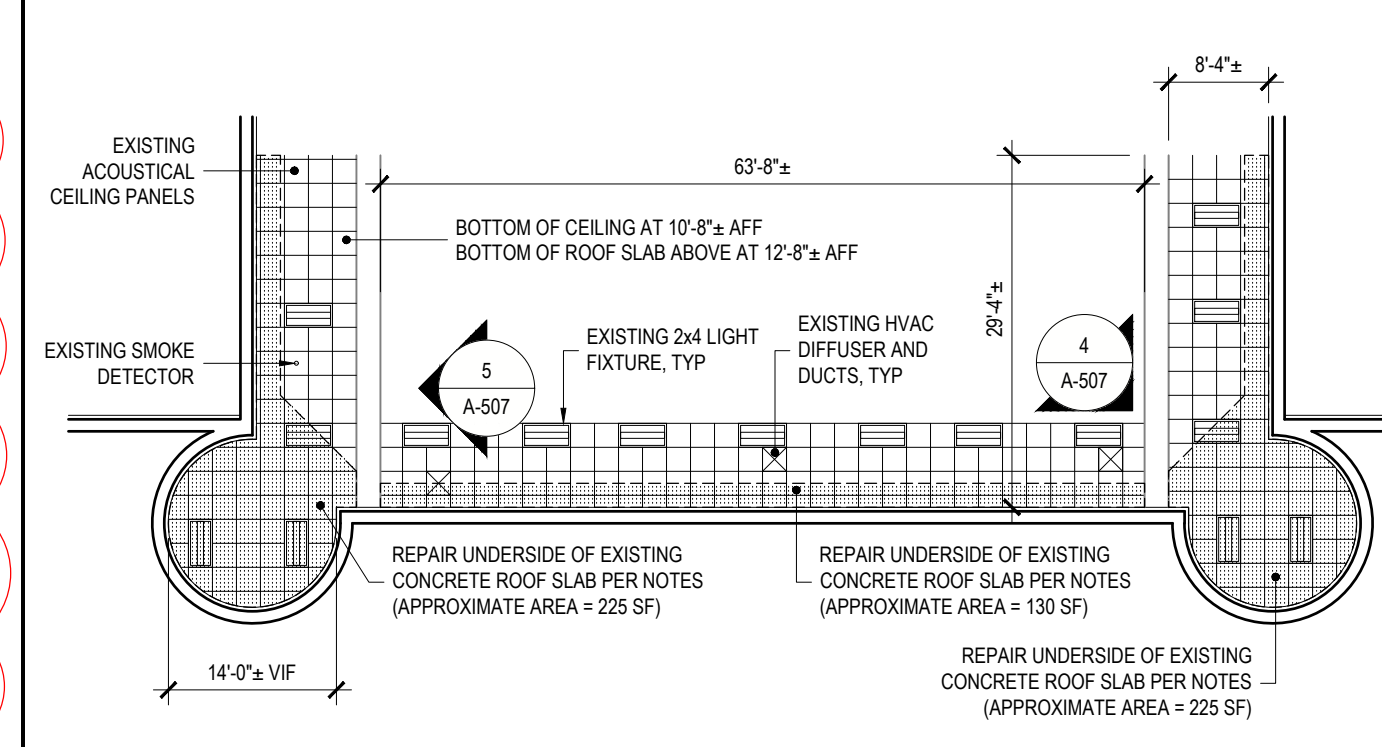


**COMPONENTS AND CLADDING WIND PRESSURES (ASCE 7-16)**

DISTANCE 'a' = 12 FT DISTANCE 'b' = 20 FT DISTANCE '0.6h' = 12 FT EFFECTIVE WIND AREA = 10 SF

ZONE	LRFD WIND PRESSURE	ASD WIND PRESSURE
C-1	-82 PSF	-51 PSF
C-1'	-36 PSF	-21 PSF
C-2	-82 PSF	-49 PSF
C-3	-112 PSF	-67 PSF

NOTES:  
1. VALUES ARE CALCULATED ACCORDING TO ASCE 7-16 C&C PART 1 FOR BUILDING HEIGHT h ≤ 60 FT.  
FLAT ROOF (SLOPE θ ≤ 3°)



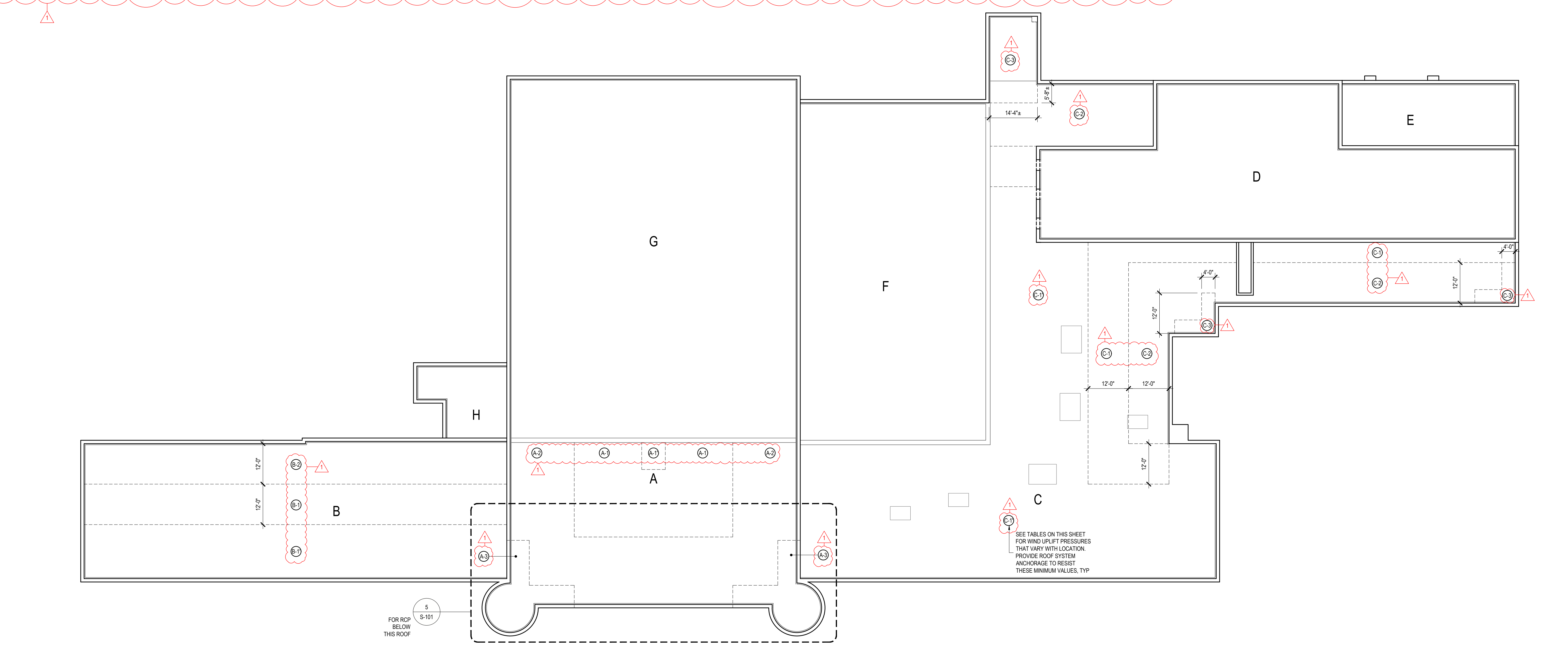
- LEGEND:**
- GYPSUM WALL BOARD SOFFIT
  - 3/4" X 4" LUMINAIRE
  - SUSPENDED CEILING SYSTEM AND ORIGINAL PLASTER CEILING ABOVE
  - HVAC DIFFUSER
  - SMOKE DETECTOR
  - ROOF SLAB REPAIR
- REPAIR NOTES FOR UNDERSIDE OF EXISTING ROOF SLAB:**
- REMOVE AND REINSTALL EXISTING SUSPENDED CEILING GRID AND ACOUSTICAL PANELS PER DETAIL S-516-S17 AND S-518-S21.
  - PROVIDE 250 SF ACOUSTIC CEILING PANELS TO REPLACE DAMAGED OR DETERIORATED PANELS.
  - REMOVE AND REINSTALL EXISTING LIGHT FIXTURES.
  - REMOVE AND REINSTALL EXISTING HVAC DUCTS AND DIFFUSERS.
  - REMOVE AND REINSTALL SMOKE / HEAT DETECTORS.
  - NOTE THAT NOT ALL ITEMS REQUIRING REMOVAL AND REINSTALLATION ARE SHOWN ON THE PLAN. REMOVE AND REINSTALL ALL EQUIPMENT NECESSARY TO COMPLETE THE WORK IN THE AREAS SHOWN. SEE PHOTOS A-507 AND S-516-S17.
  - REMOVE EXISTING ORIGINAL SUSPENDED PLASTER CEILING SYSTEM AND BLACK IRON SUPPORTS AND ANCHORS ABOVE EXISTING SUSPENDED CEILING (APPROXIMATELY 8 INCHES BELOW BOTTOM OF EXISTING CONCRETE ROOF SLAB).
  - PROVIDE SUPPLEMENTAL SUPPORTS, SIMILAR TO EXISTING SUPPORTS, ALONG CUT EDGES OF BLACK IRON PLASTER SUPPORT SYSTEM.
  - REMOVE EXISTING DETERIORATED CONCRETE FROM UNDERSIDE OF EXISTING ROOF SLAB TO AN AVERAGE DEPTH OF 3".
  - PATCH UNDERSIDE OF EXISTING CONCRETE ROOF DECK. SEE CONCRETE PATCHING NOTES AND DETAILS ON DRAWING S-102.
  - REINSTALL MEP SYSTEMS.
  - COORDINATE ALL HVAC EQUIPMENT AND SYSTEMS SHUTDOWNS WITH DIRECTOR'S REPRESENTATIVE. DO NOT SHUTDOWN OR REMOVE ANY HVAC EQUIPMENT WITHOUT THE DIRECTOR'S REPRESENTATIVE'S PERMISSION.
  - BALANCE ALL REINSTALLED HVAC EQUIPMENT AND SYSTEMS THE EQUIPMENT IMPACT.
  - COORDINATE ALL POWER INTERRUPTION WITH DIRECTOR'S REPRESENTATIVE. DO NOT INTERRUPT POWER WITHOUT DIRECTOR'S REPRESENTATIVE'S PERMISSION.

2 WIND UPLIFT PRESSURES FOR ROOF AREA A  
REF: SCALE: NONE

3 WIND UPLIFT PRESSURES FOR ROOF AREA B  
REF: SCALE: NONE

4 WIND UPLIFT PRESSURES FOR ROOF AREA C  
REF: SCALE: NONE

5 SECOND FLOOR PARTIAL RCP  
REF: 1/S-101 SCALE: 1/16" = 1'-0"



1 ROOF STRUCTURE PLAN  
REF: SCALE: 1/16" = 1'-0"

36x24 PLOT SHEET



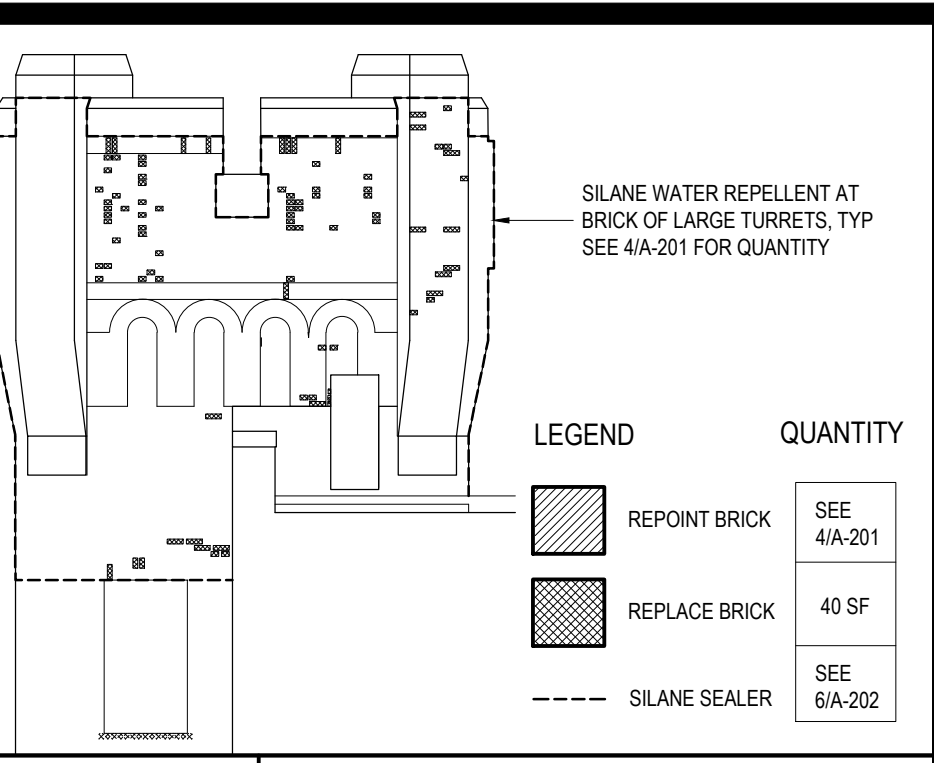
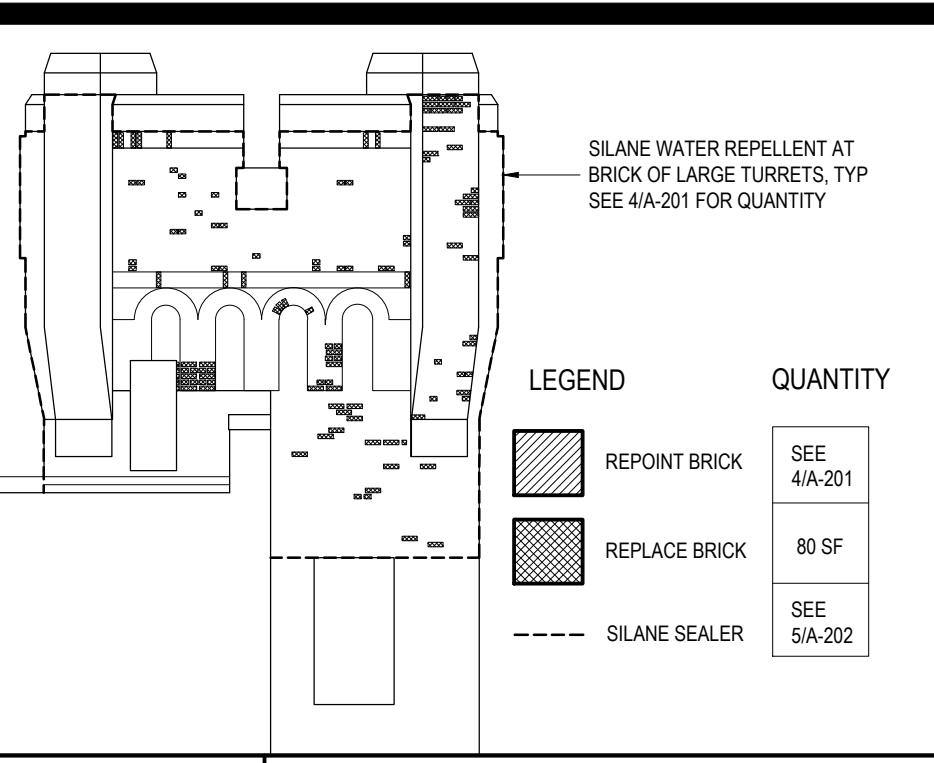
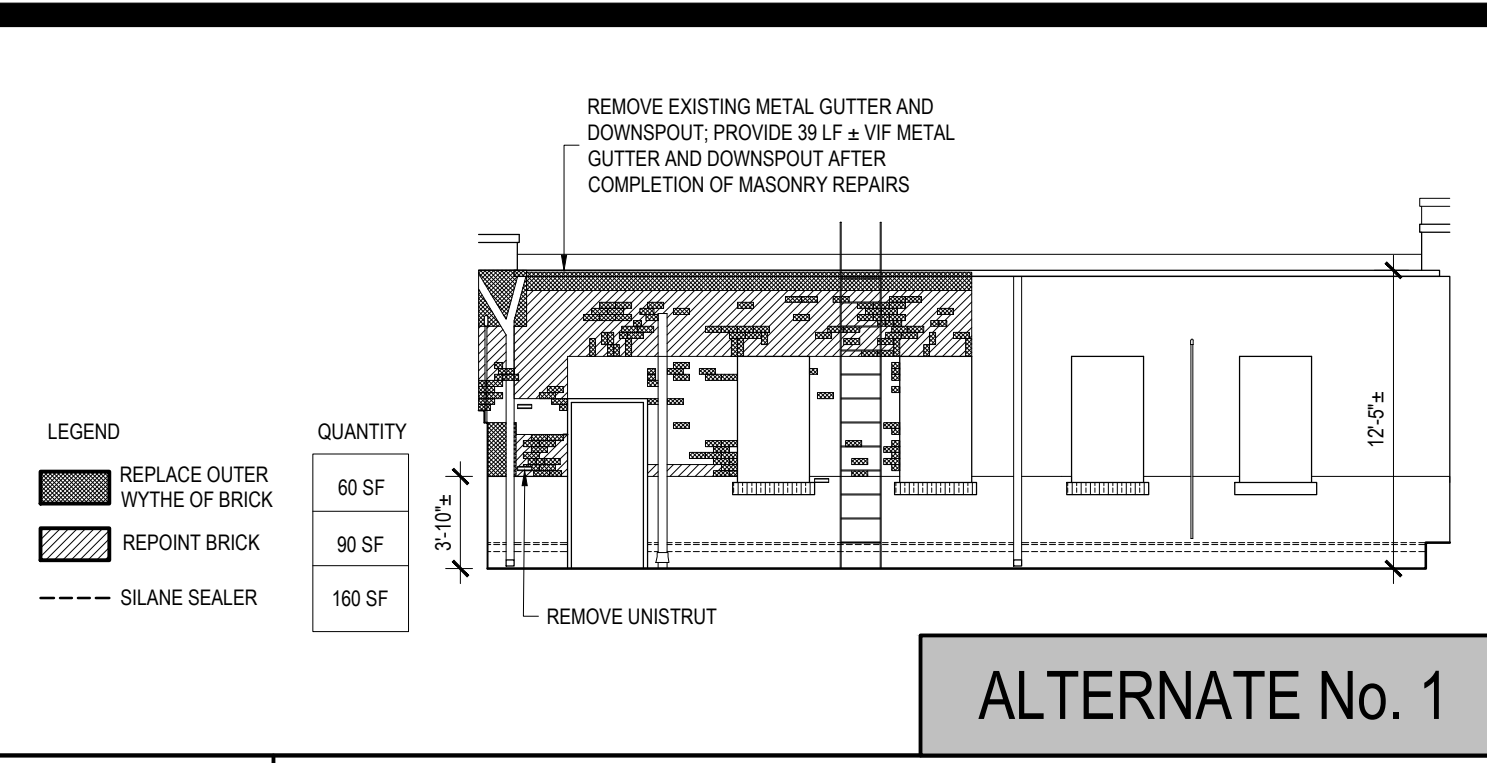
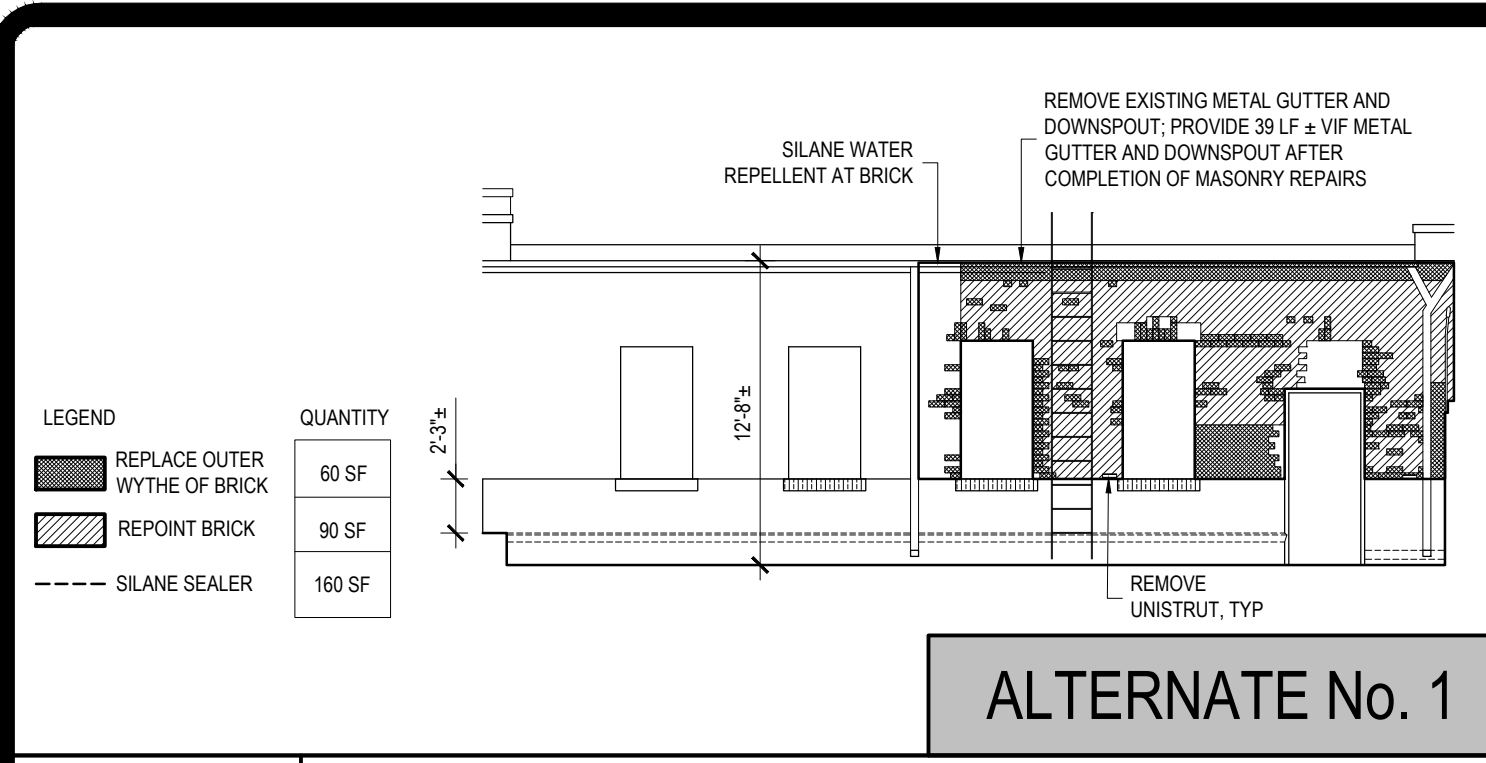


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**REGISTERED ARCHITECT**  
KRISTIN KWICKERBERGER  
STATE OF NEW YORK  
REGISTRATION EXPIRES: 12/31/2026

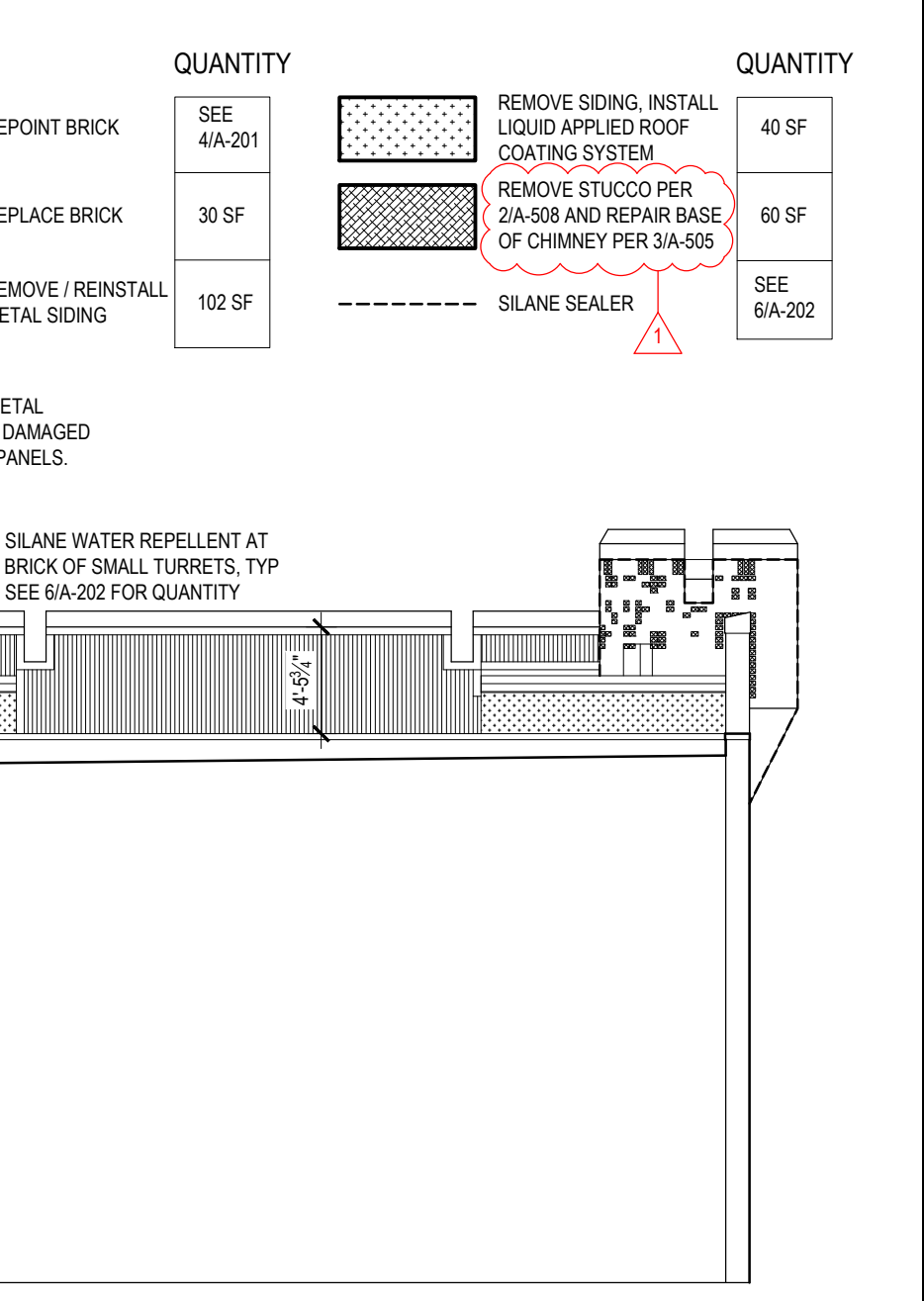
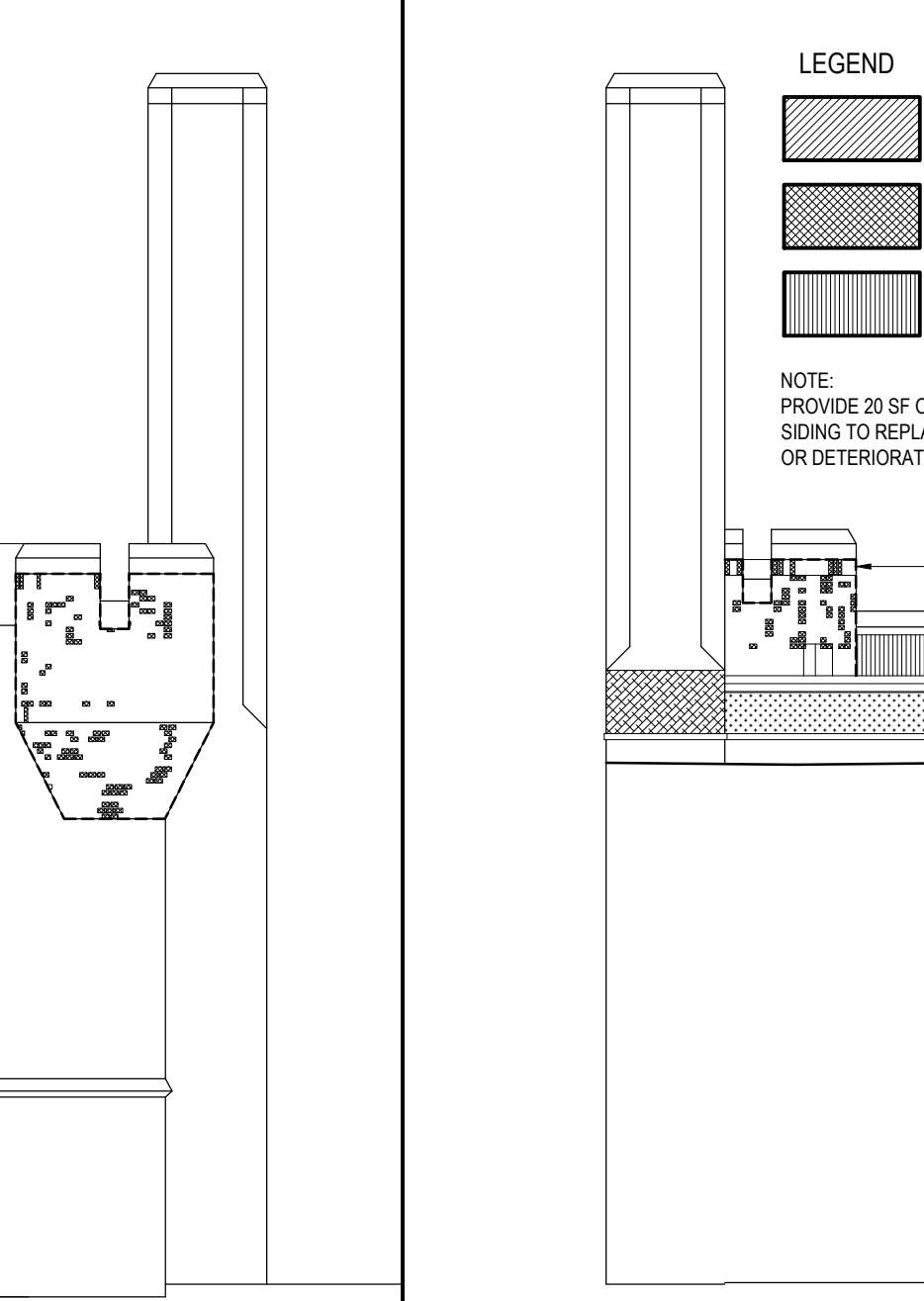
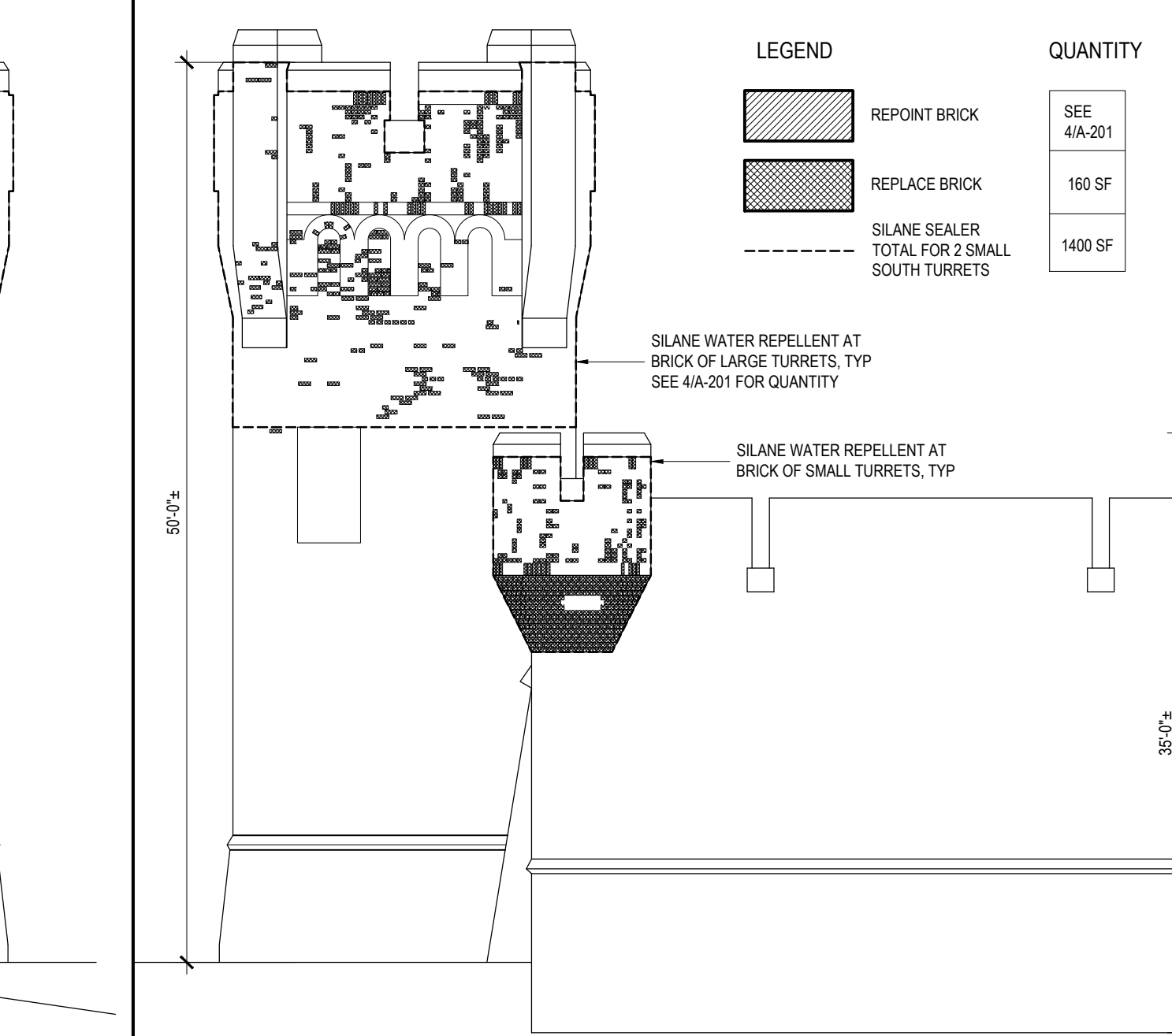
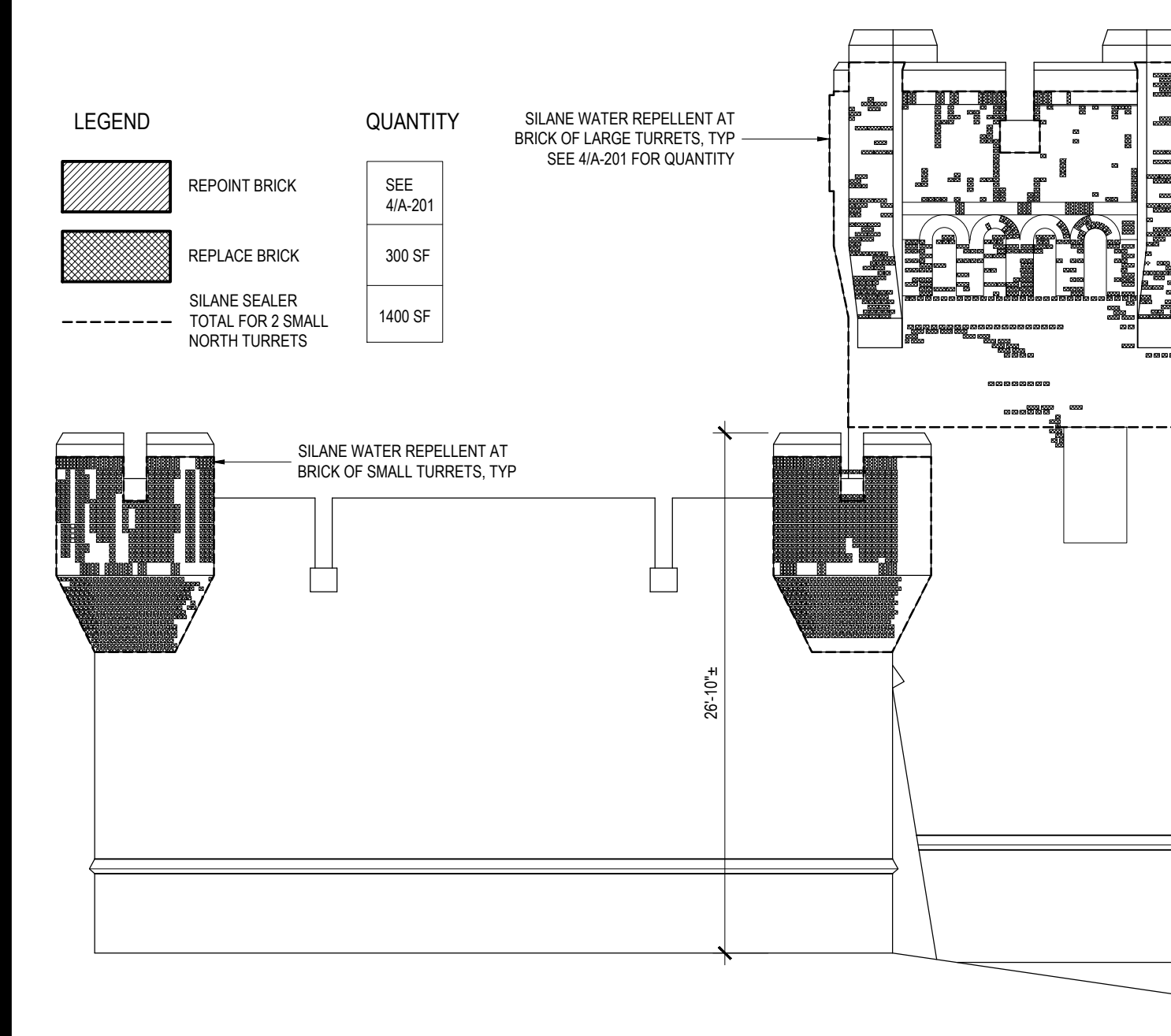


**10 NORTH ELEVATION UPPER FLOOR (ROOF LEVEL)**  
REF: 1/A-101 SCALE: 1/8" = 1'-0"

**11 SOUTH ELEVATION UPPER FLOOR (ROOF LEVEL)**  
REF: 1/A-102 SCALE: 1/8" = 1'-0"

**12 NORTH TURRET NORTH ELEV**  
REF: 1/A-101 SCALE: 1/8" = 1'-0"

**13 SOUTH TURRET SOUTH ELEV**  
REF: 1/A-102 SCALE: 1/8" = 1'-0"

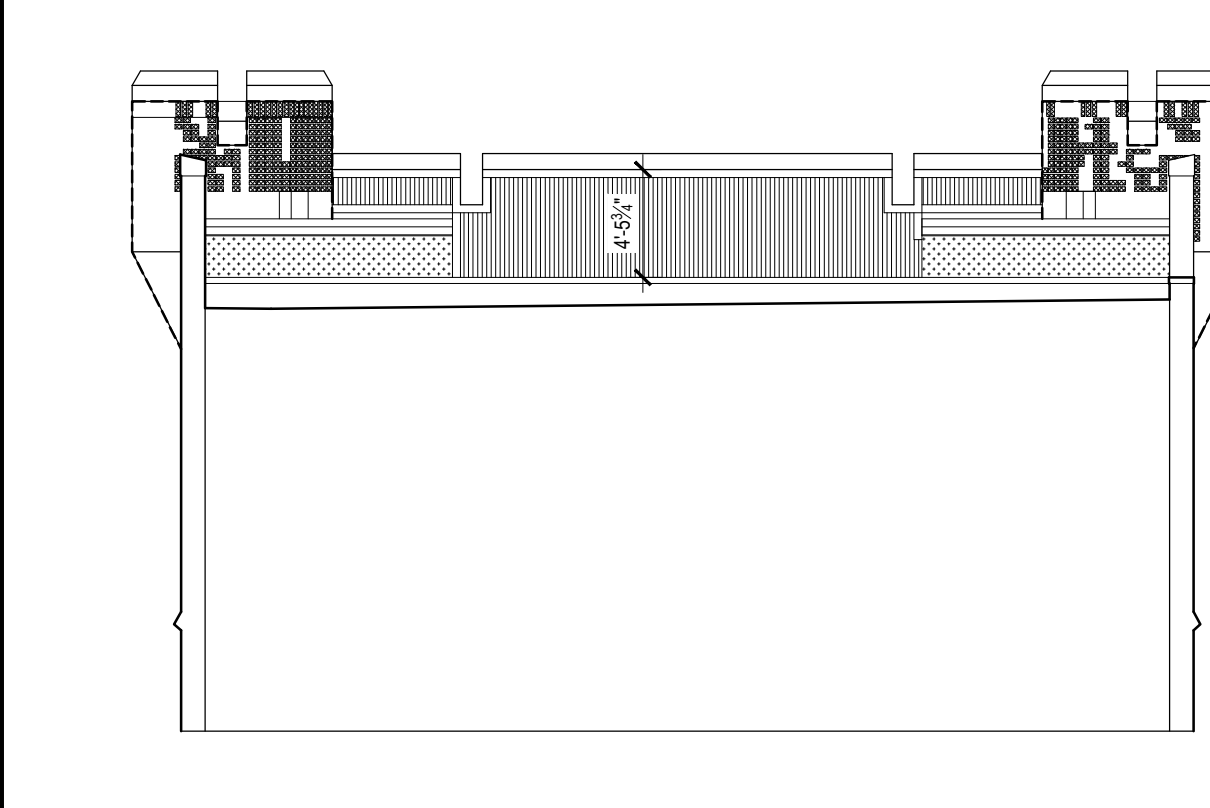
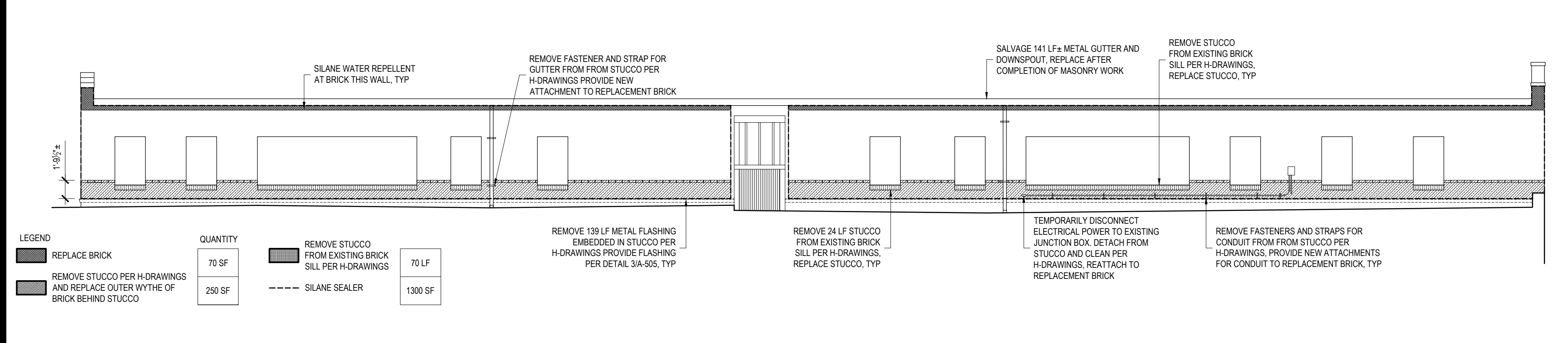


**5 NORTH ELEVATION**  
REF: 1/A-101 SCALE: 1/8" = 1'-0"

**6 SOUTH ELEVATION**  
REF: 1/A-102 SCALE: 1/8" = 1'-0"

**7 SOUTH PARAPET VIEWED FROM ROOF**  
REF: 1/A-102 SCALE: 1/8" = 1'-0"

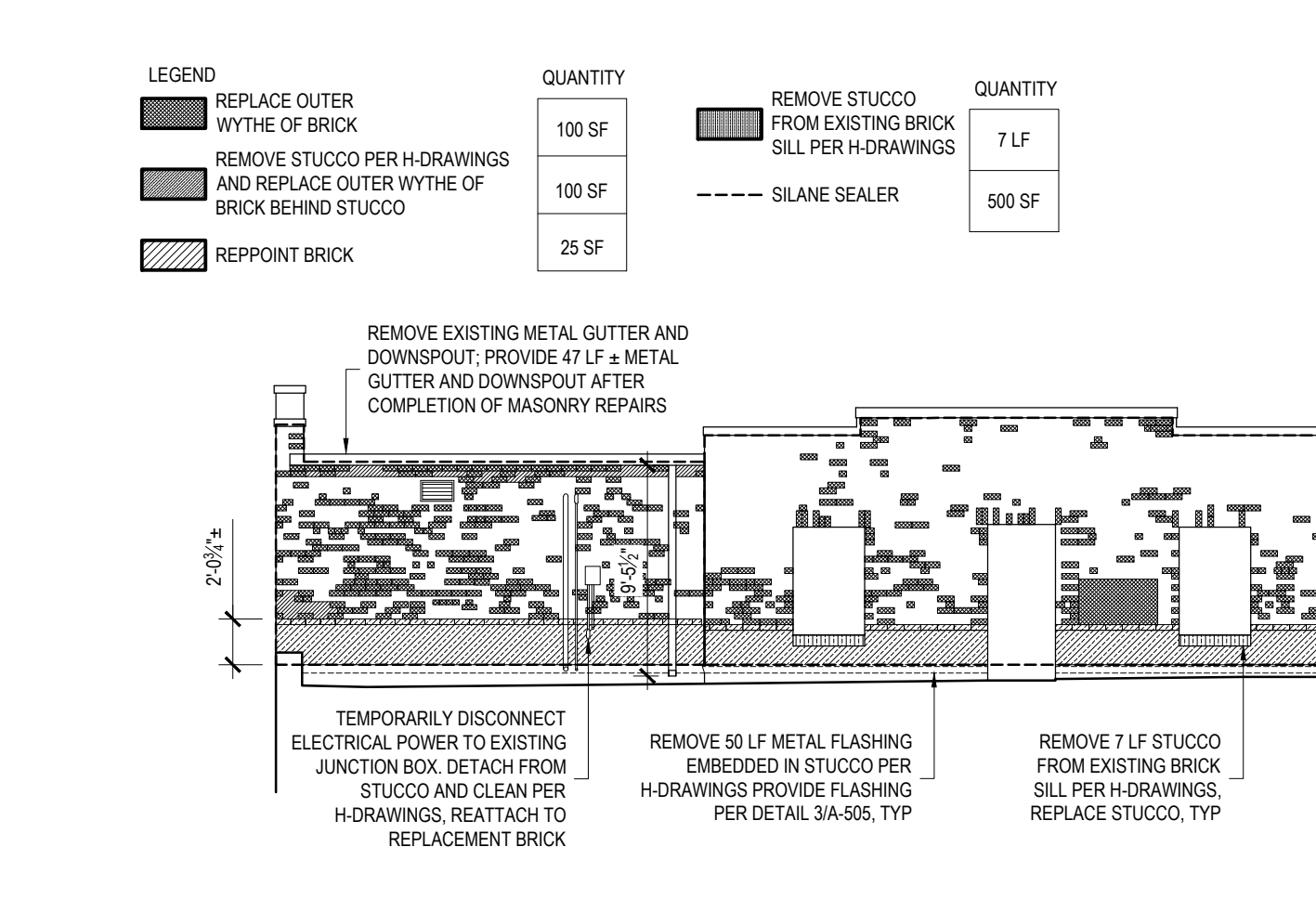
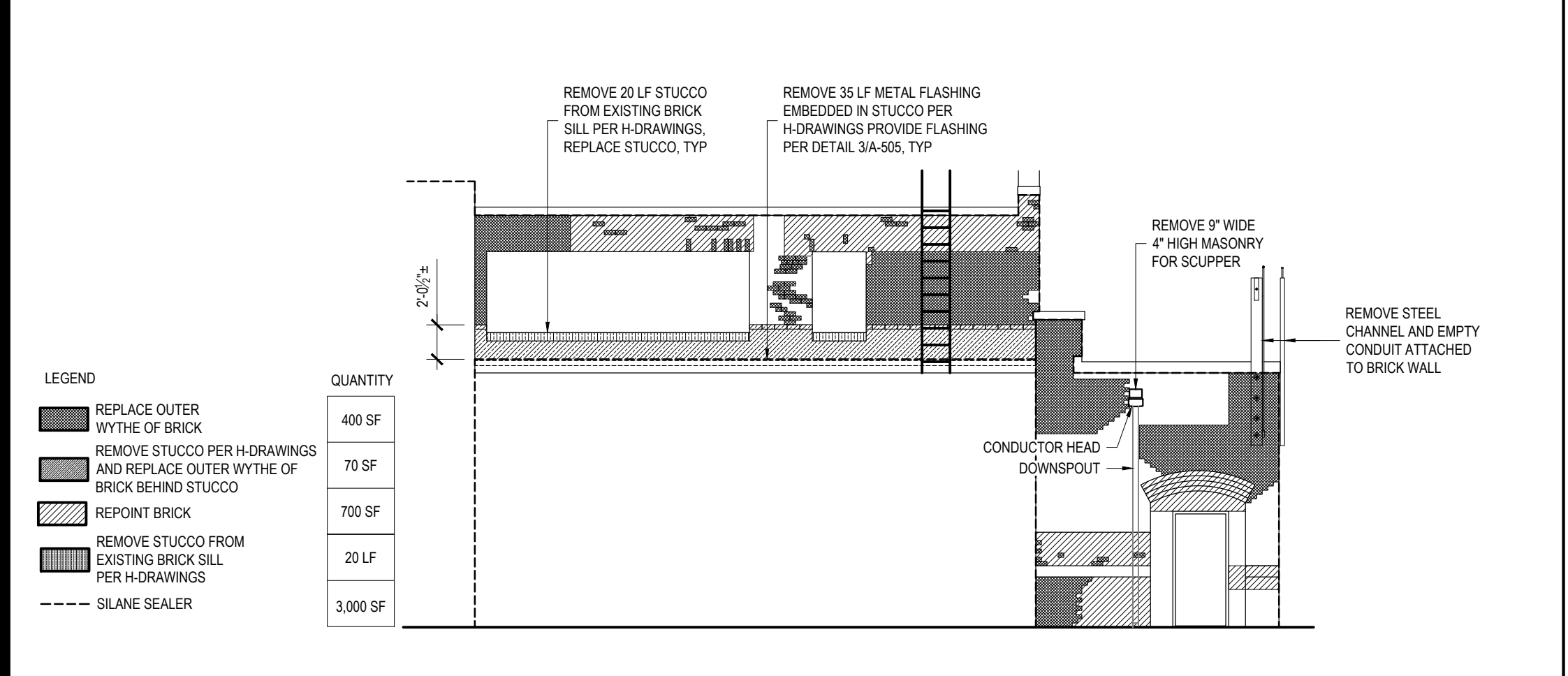
**8 LARGE TURRET**  
REF: 1/A-201 SCALE: NTS



**3 WEST ELEVATION UPPER FLOOR (ROOF LEVEL)**  
REF: 1/A-102 SCALE: 1/8" = 1'-0"

**ALTERNATE No. 1**

**4 NORTH PARAPET VIEWED FROM ROOF**  
REF: 1/A-101 SCALE: 1/16" = 1'-0"



**1 EAST ELEVATION**  
REF: 1/A-102 SCALE: 1/8" = 1'-0"

**ALTERNATE No. 1**

**2 SOUTH ELEVATION UPPER FLOOR**  
REF: 1/A-102 SCALE: 1/8" = 1'-0"

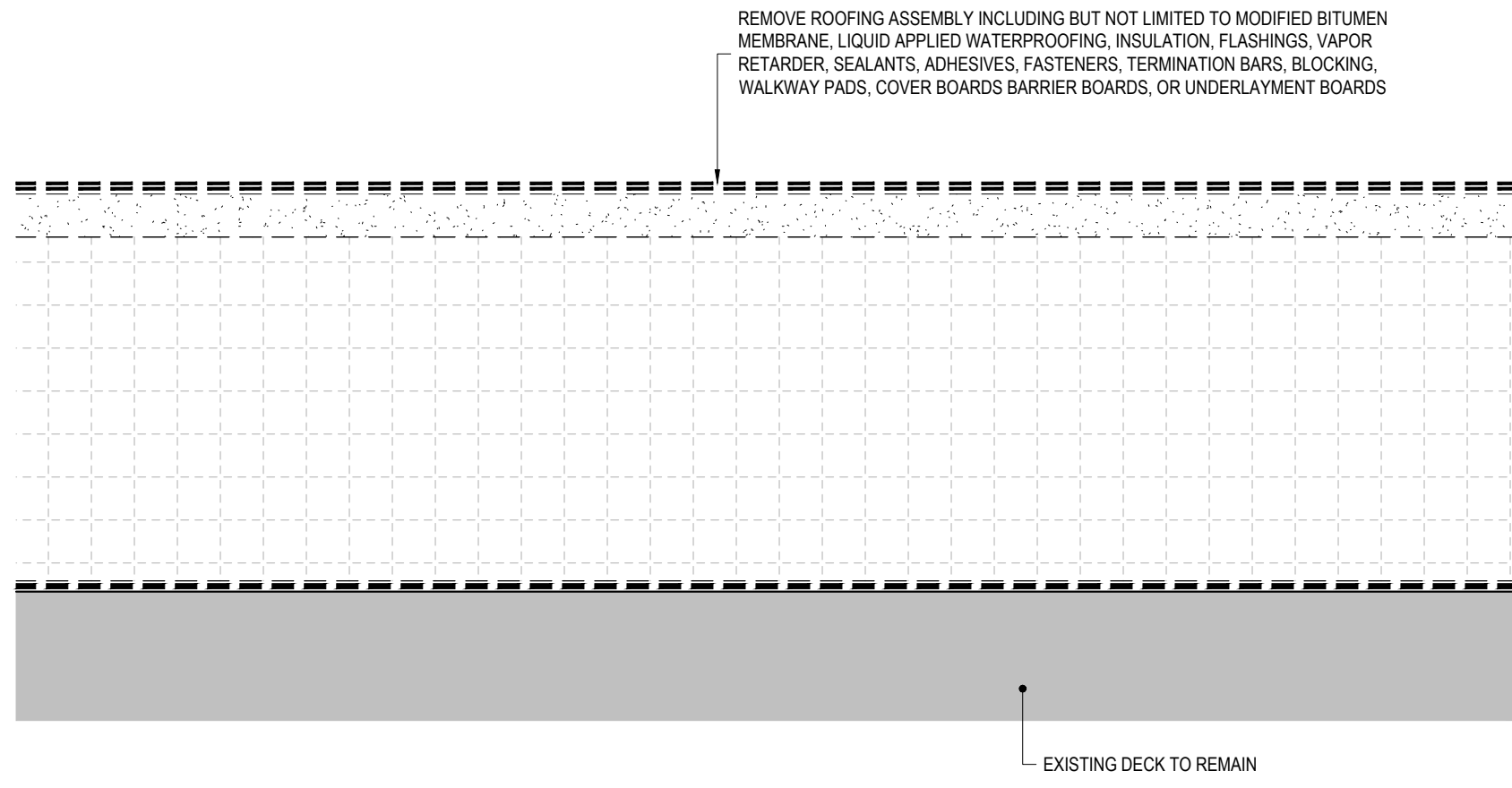
**ALTERNATE No. 1**

**CONSTRUCTION**  
TITLE: REPAIR ROOF STATE ARMYORY  
LOCATION: BUILDING No. 71 321 MANOR ROAD STATEN ISLAND, NY  
CLIENT: DIVISION OF MILITARY AND NAVAL AFFAIRS

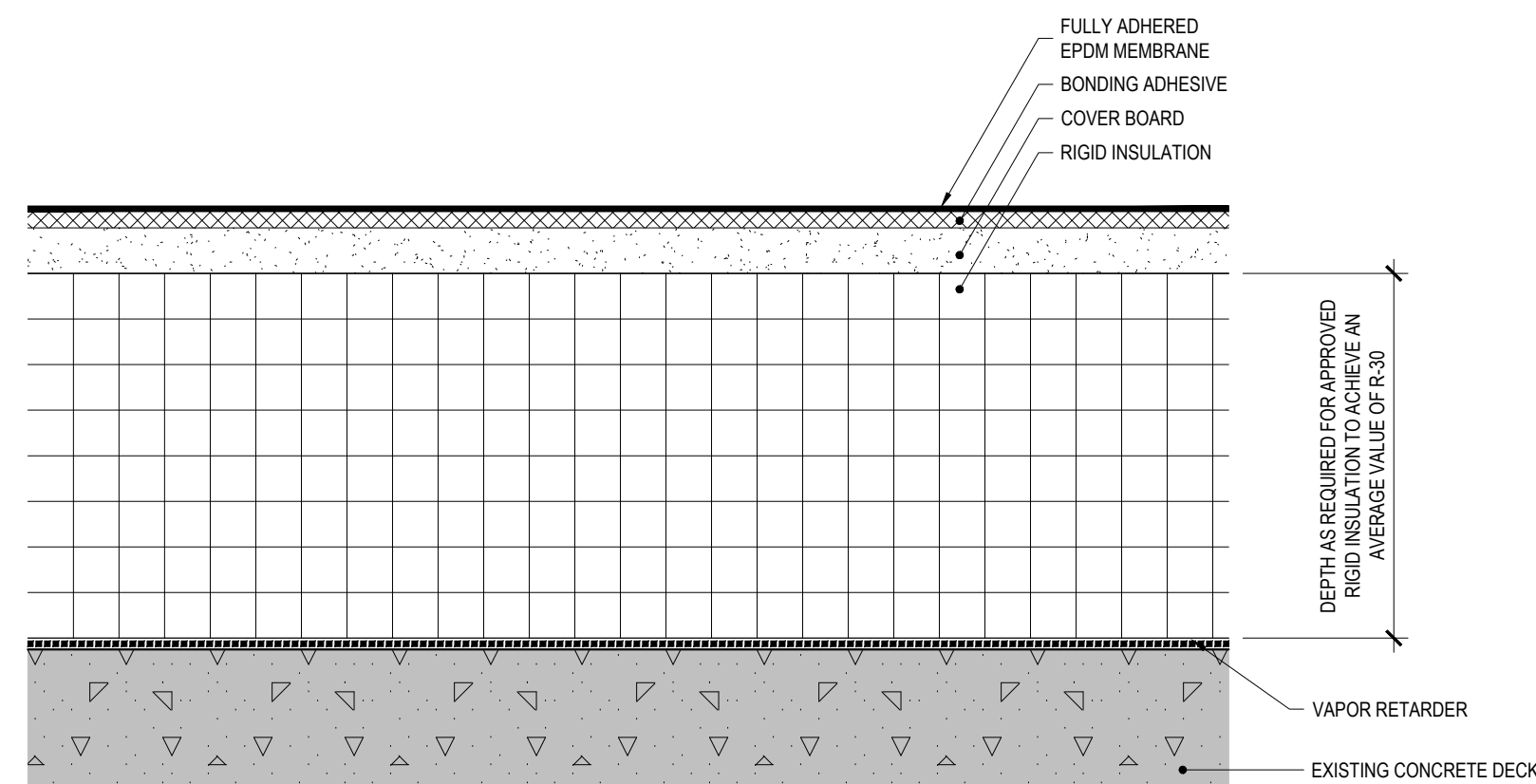
**REVISED DRAWING 08/26/2024**

MARK	DATE	DESCRIPTION
△	08/26/2024	ADDENDUM 3
	05/24/2024	BID DOCUMENT

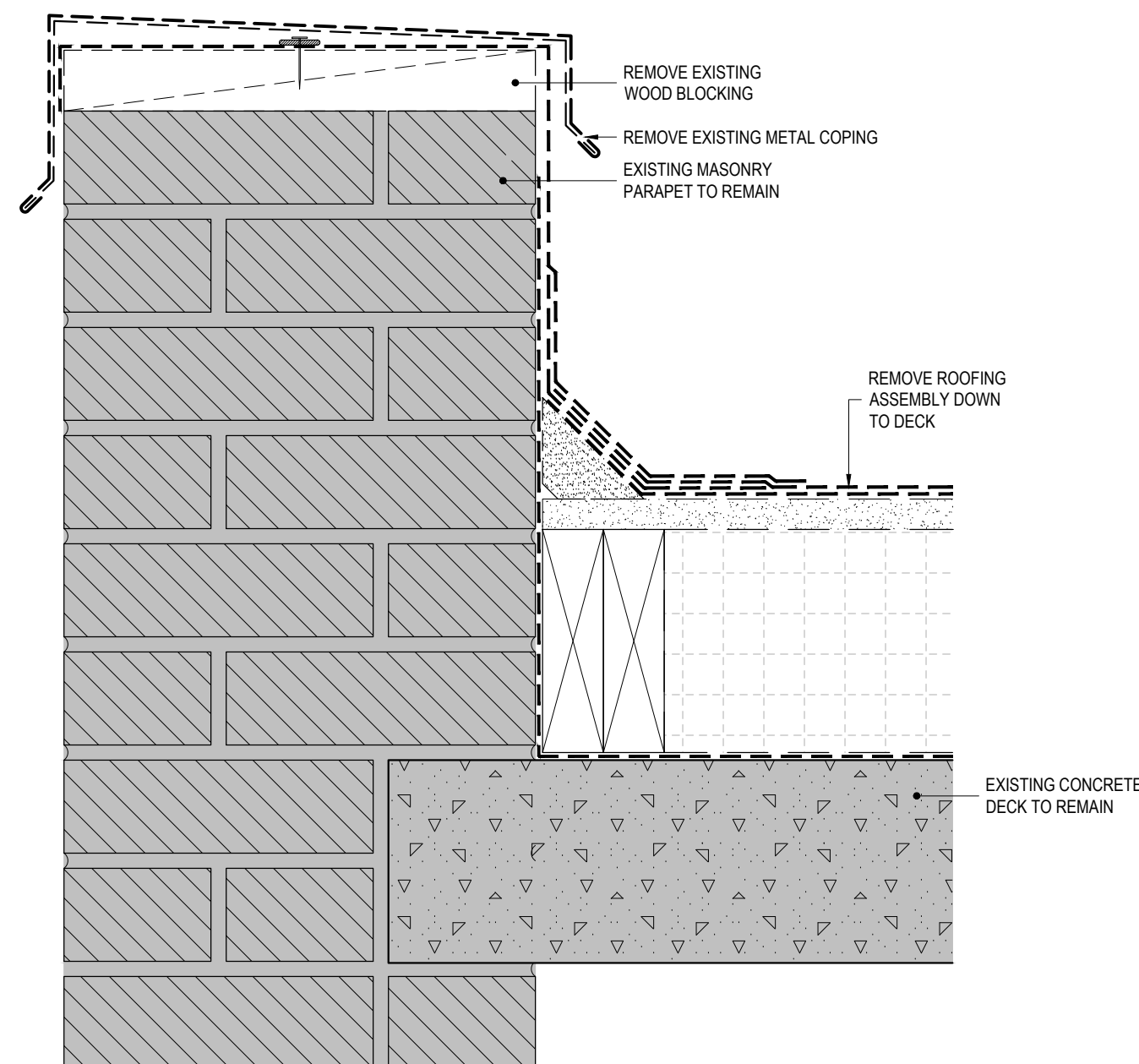
PROJECT NUMBER: **47599 - C**  
DESIGNED BY: KK  
DRAWN BY: SS  
FIELD CHECK:  
APPROVED:  
SHEET TITLE: **ELEVATIONS**  
DRAWING NUMBER: **A-202**  
SHEET 12 OF 20



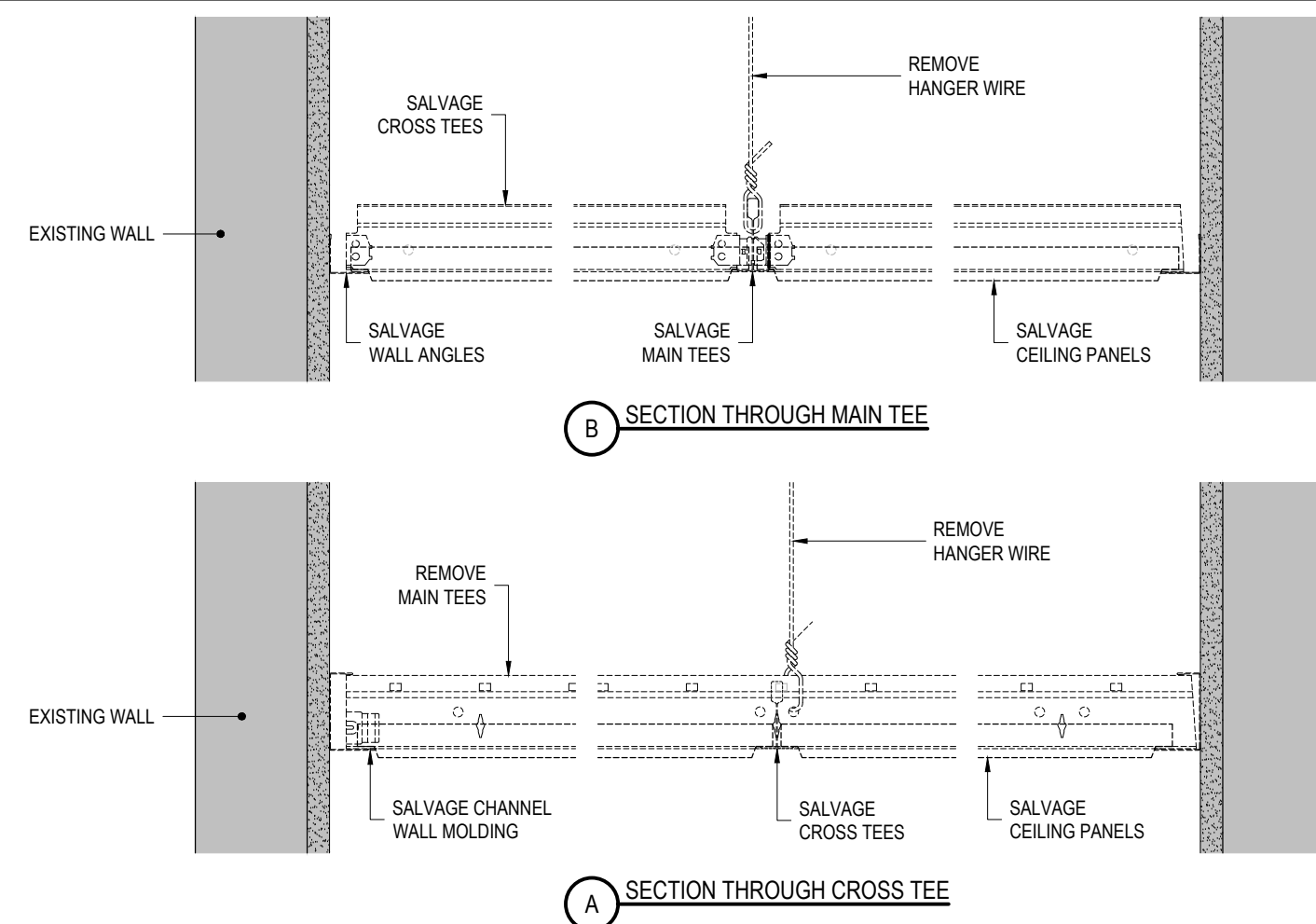
**8** MODIFIED BITUMEN ROOFING ASSEMBLY TYPICAL REMOVALS  
REF: 1/A-010 SCALE: 6" = 1'-0"



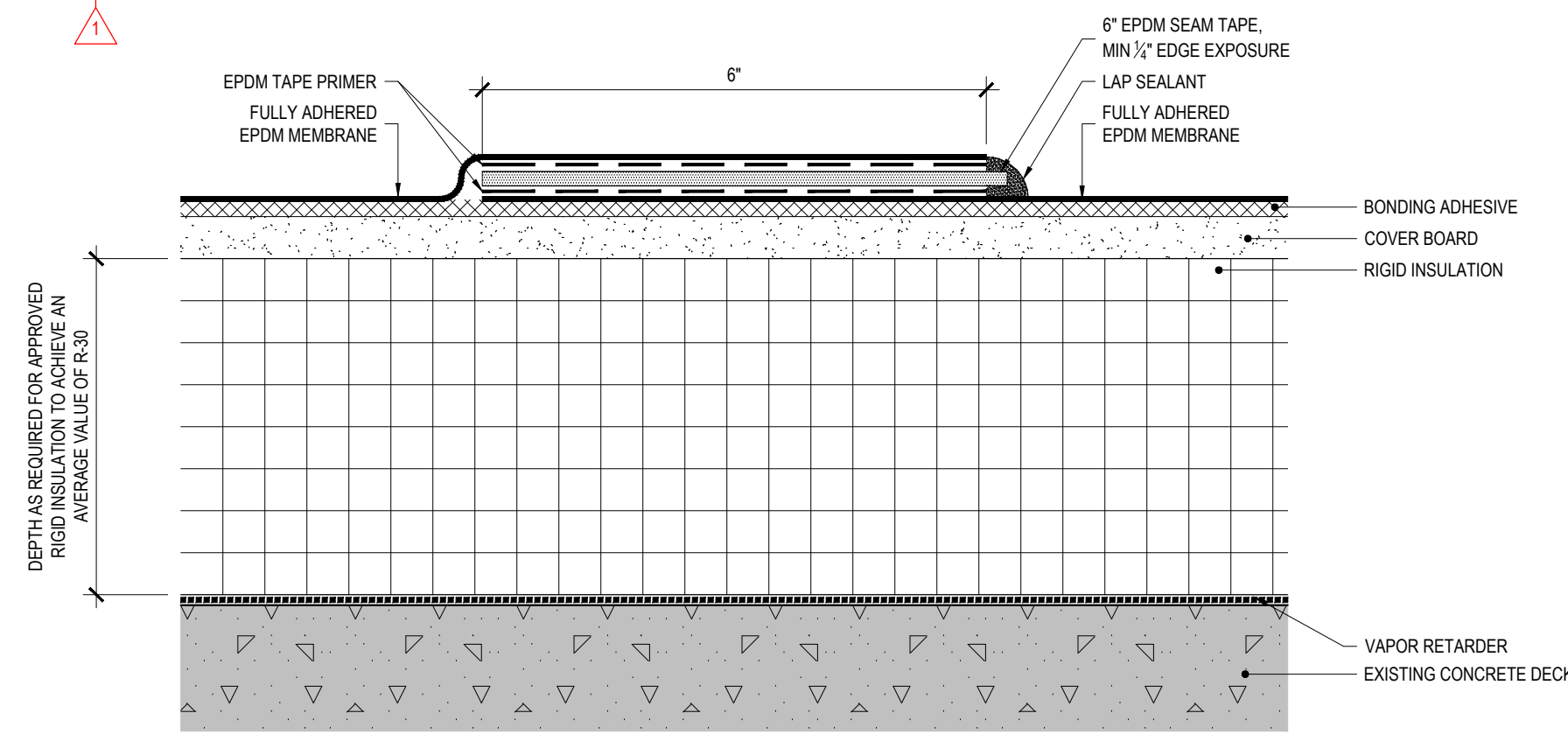
**5** EPDM ROOF ASSEMBLY - TYPICAL FIELD DETAIL  
REF: 1/A-010 SCALE: 6" = 1'-0"



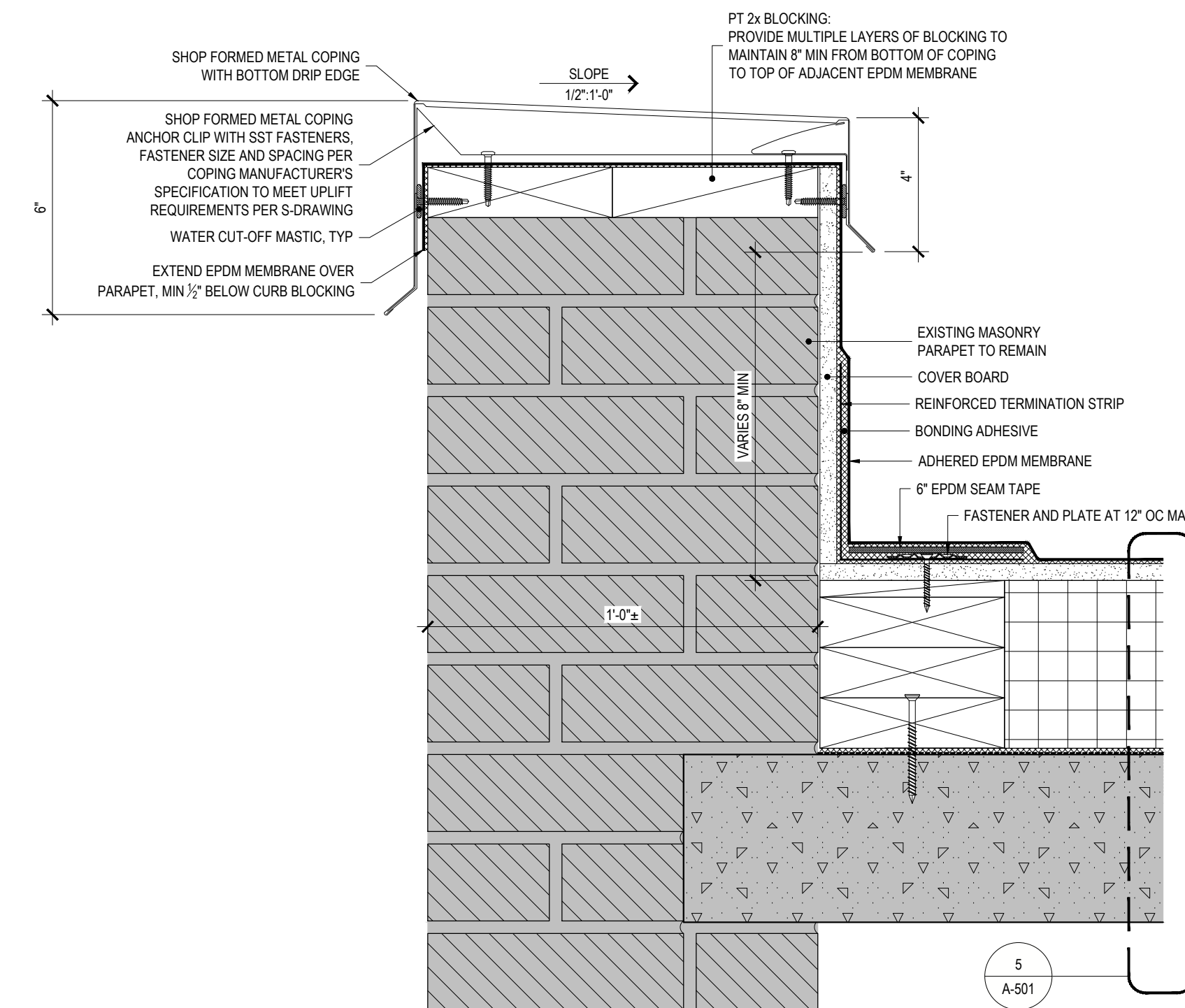
**1** ROOF B PARAPET WALL REMOVAL  
REF: 1/A-010 SCALE: 3" = 1'-0"



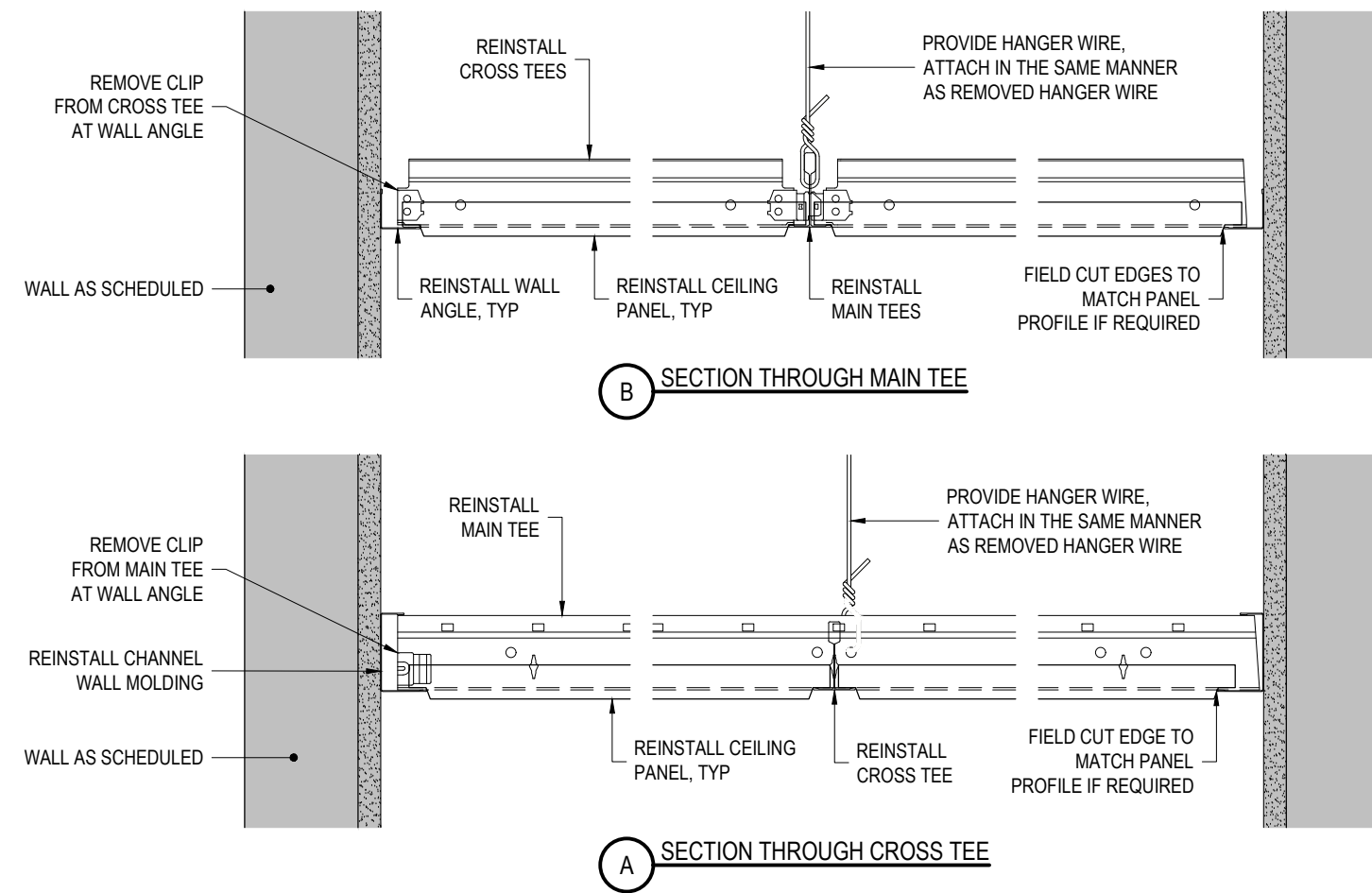
**9** REMOVE AND SALVAGE EXISTING ACOUSTIC PANEL CEILINGS  
REF: 5/S-101 SCALE: 3" = 1'-0"



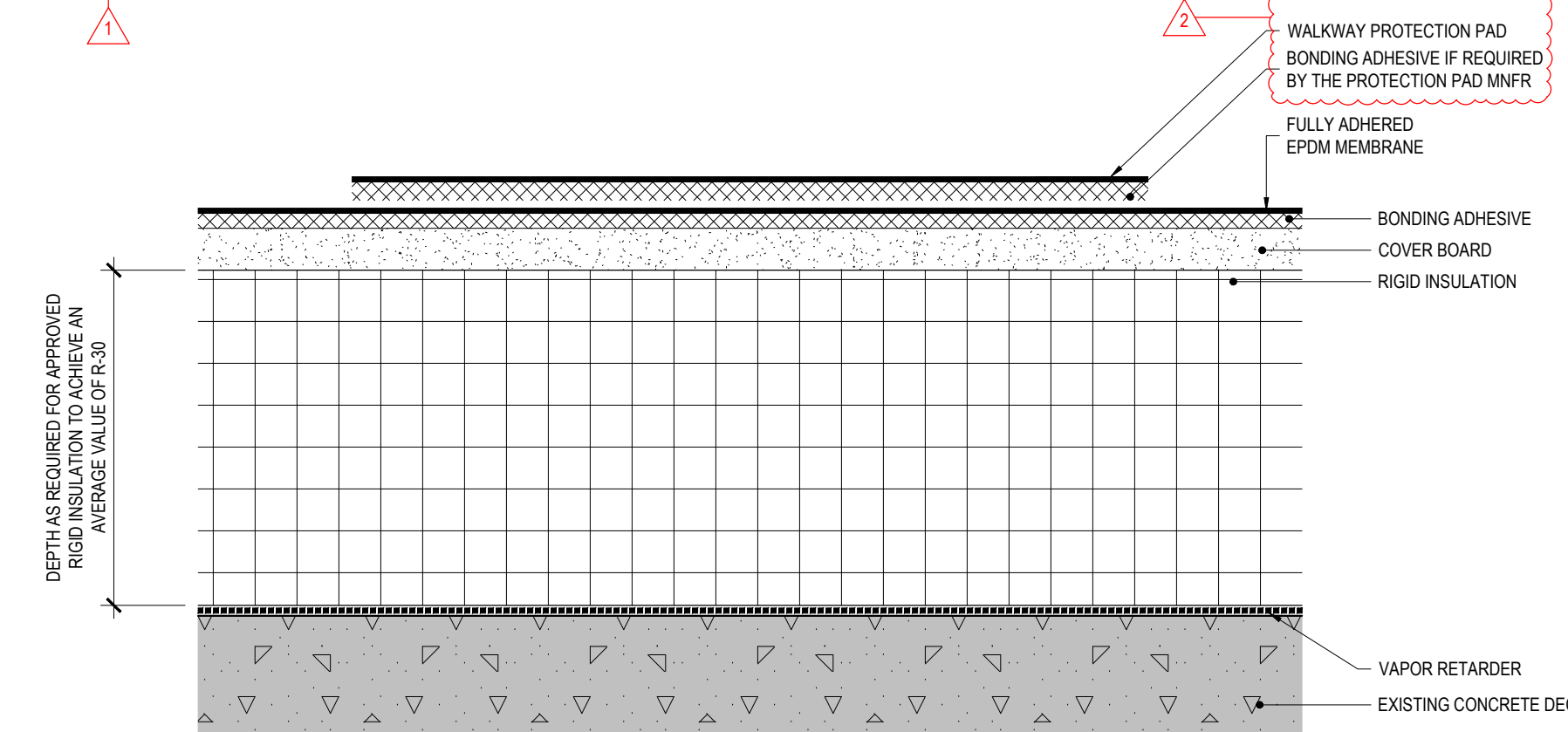
**6** EPDM ROOFING LAP SPLICE DETAIL - TYPICAL  
REF: NONE SCALE: 6" = 1'-0"



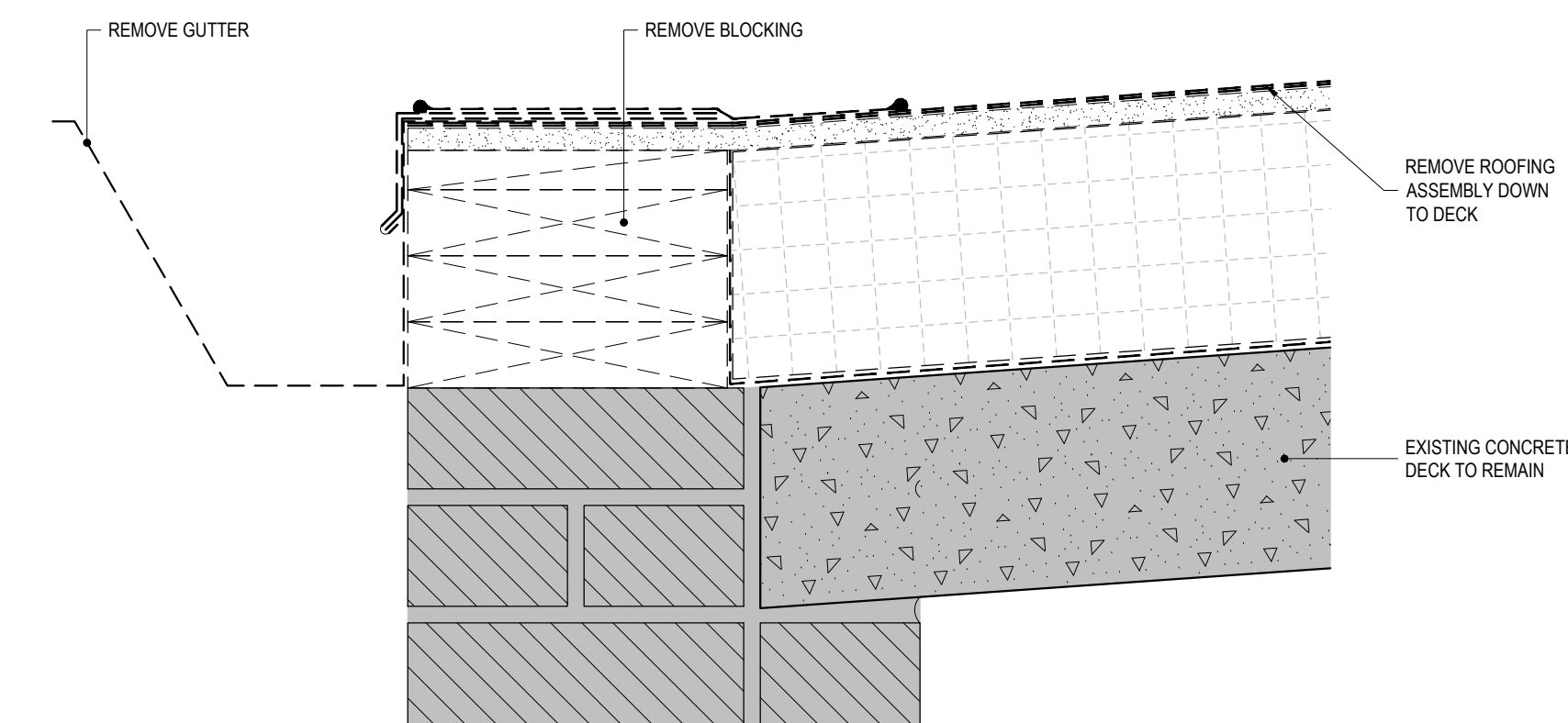
**2** SHOP FORMED METAL COPING DETAIL  
REF: 1/A-010 SCALE: 3" = 1'-0"



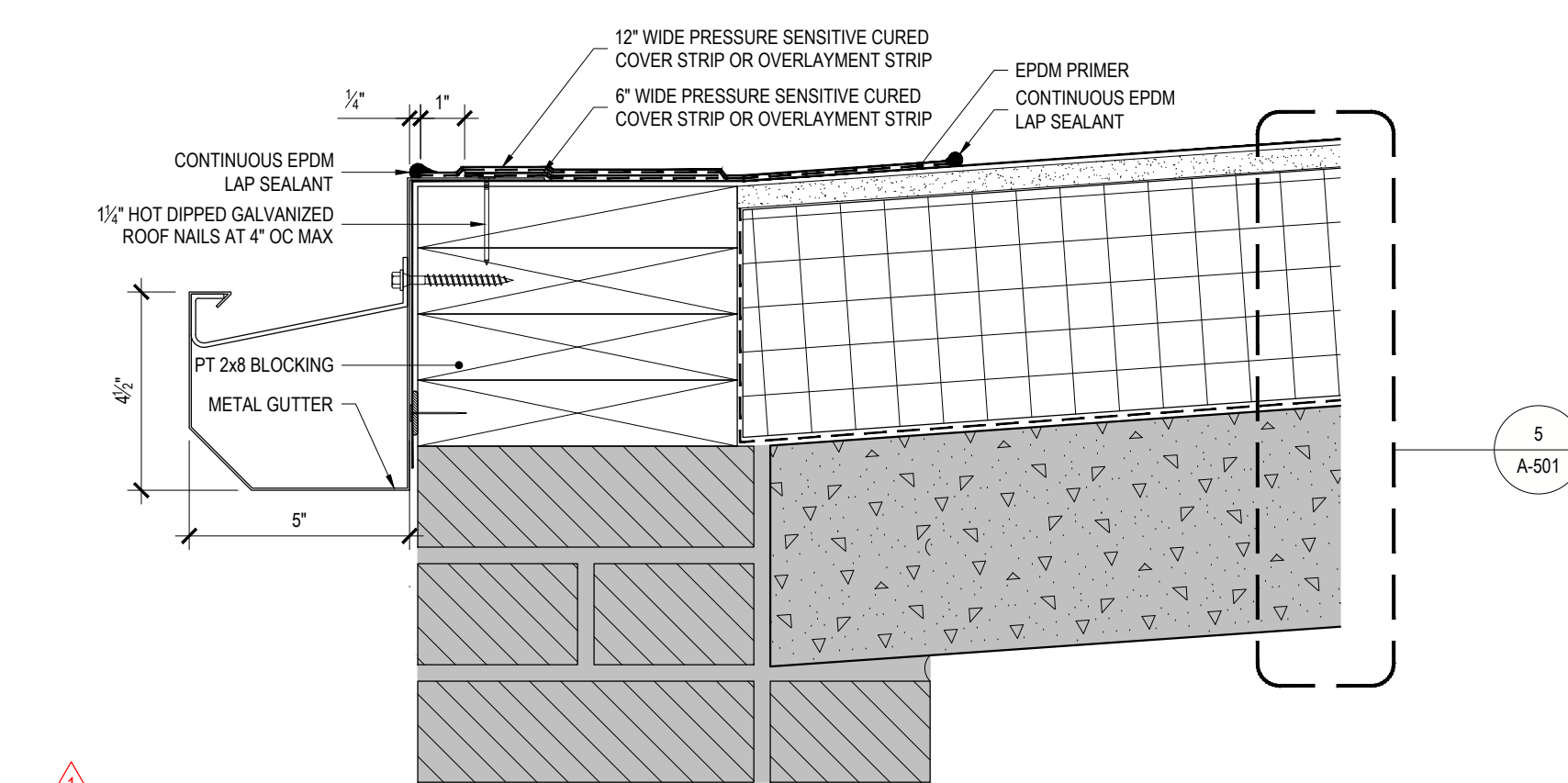
**10** REINSTALL SALVAGED ACOUSTIC CEILING PANELS  
REF: 5/S-101 SCALE: 3" = 1'-0"



**7** EPDM ROOFING WALKWAY PAD DETAIL - TYPICAL  
REF: 1/A-101 SCALE: 6" = 1'-0"



**4** ROOF A EDGE REMOVAL  
REF: 3/A-010 SCALE: 3" = 1'-0"



**3** ROOF A EDGE DETAIL  
REF: 3/A-010 SCALE: 3" = 1'-0"

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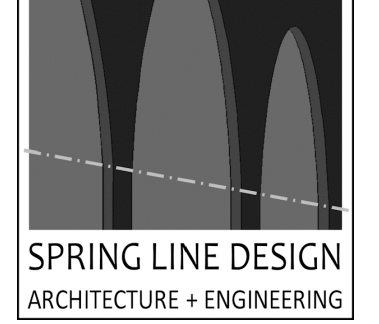
**CONTRACT:**  
**CONSTRUCTION**  
TITLE: REPAIR ROOF STATE ARMY  
LOCATION: BUILDING No. 71 321 MANOR ROAD STATEN ISLAND, NY  
CLIENT: DIVISION OF MILITARY AND NAVAL AFFAIRS

**REVISED DRAWING 08/26/2024**

MARK	DATE	DESCRIPTION
△	08/26/2024	ADDENDUM 3
△	08/07/2024	ADDENDUM 1
	05/24/2024	BID DOCUMENT

PROJECT NUMBER: **47599 - C**  
DESIGNED BY: KK  
DRAWN BY: SS  
FIELD CHECK:  
APPROVED:  
SHEET TITLE: **ROOF DETAILS**  
DRAWING NUMBER: **A-501**  
SHEET 13 OF 20

CONSULTANT  
CERTIFICATE OF AUTHORIZATION No.: 0019551



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**CONTRACT:**  
**CONSTRUCTION**

TITLE: REPAIR ROOF STATE ARMY

LOCATION: BUILDING No. 71  
321 MANOR ROAD  
STATEN ISLAND, NY

CLIENT: DIVISION OF MILITARY AND NAVAL AFFAIRS

**REVISED DRAWING 08/26/2024**

MARK	DATE	DESCRIPTION
⚠	08/26/2024	ADDENDUM 3
⚠	08/07/2024	ADDENDUM 1
	05/24/2024	BID DOCUMENT

PROJECT NUMBER: **47599 - C**

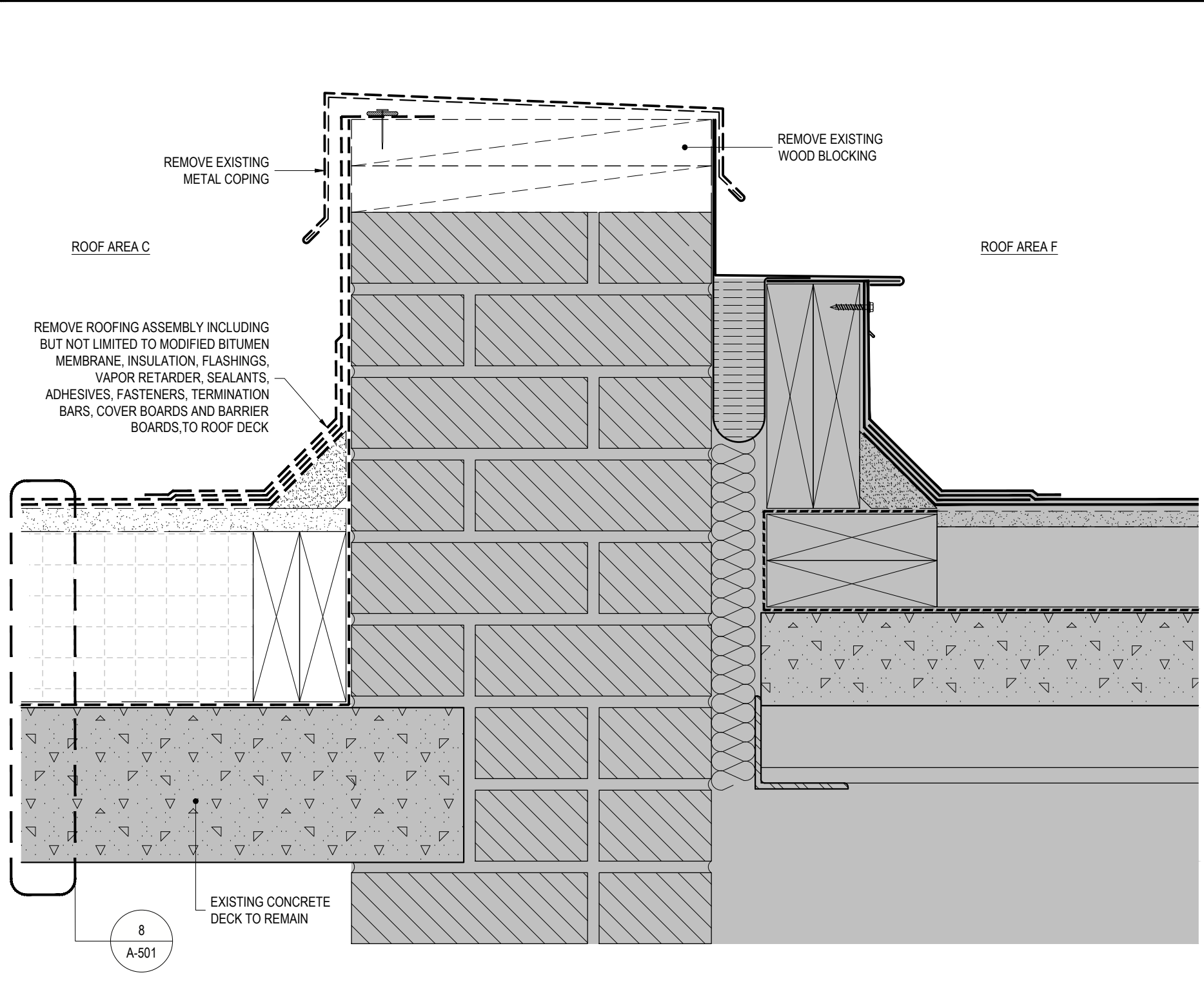
DESIGNED BY: KK  
DRAWN BY: SS

FIELD CHECK:  
APPROVED:

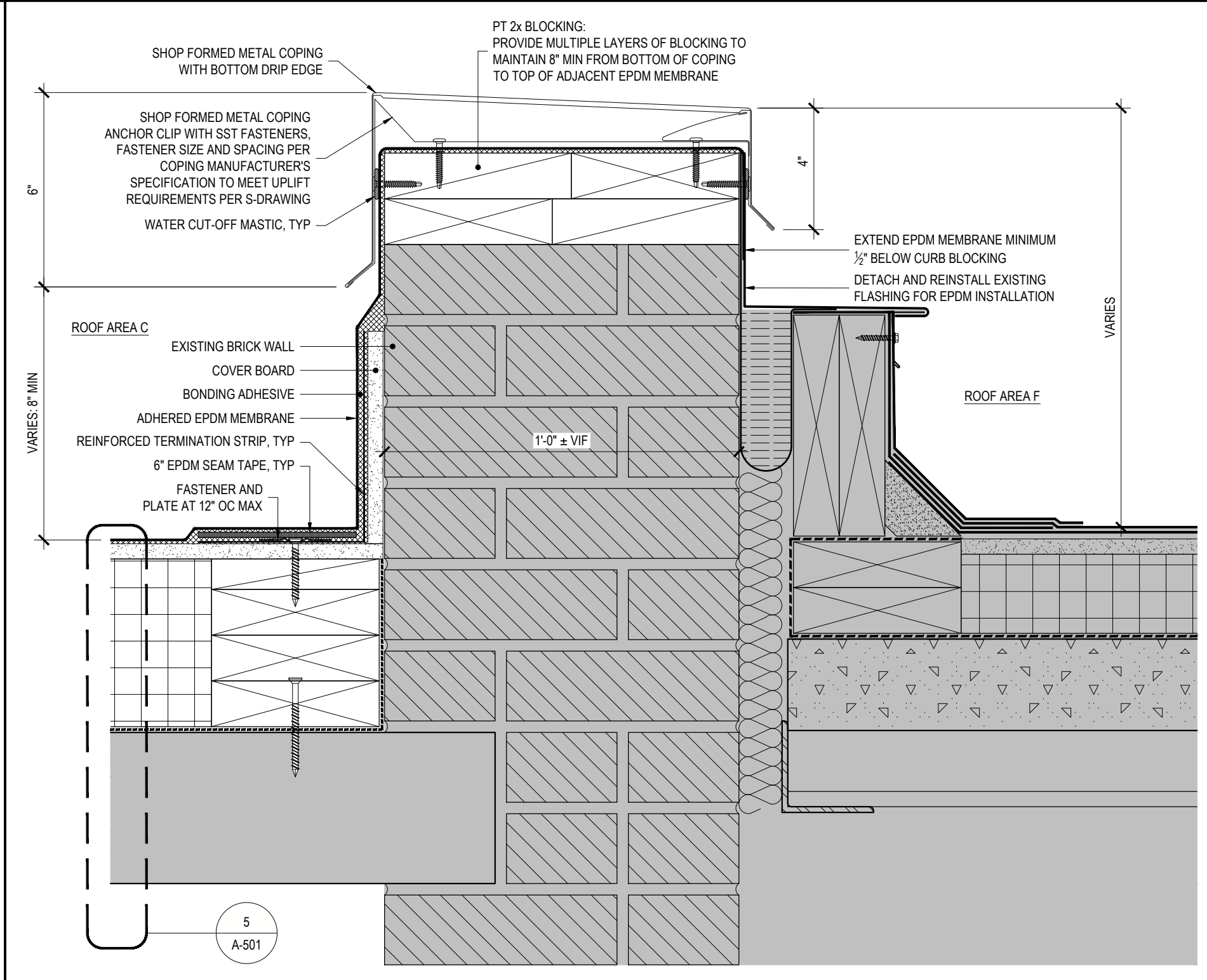
SHEET TITLE: **ROOF DETAILS**

DRAWING NUMBER: **A-502**

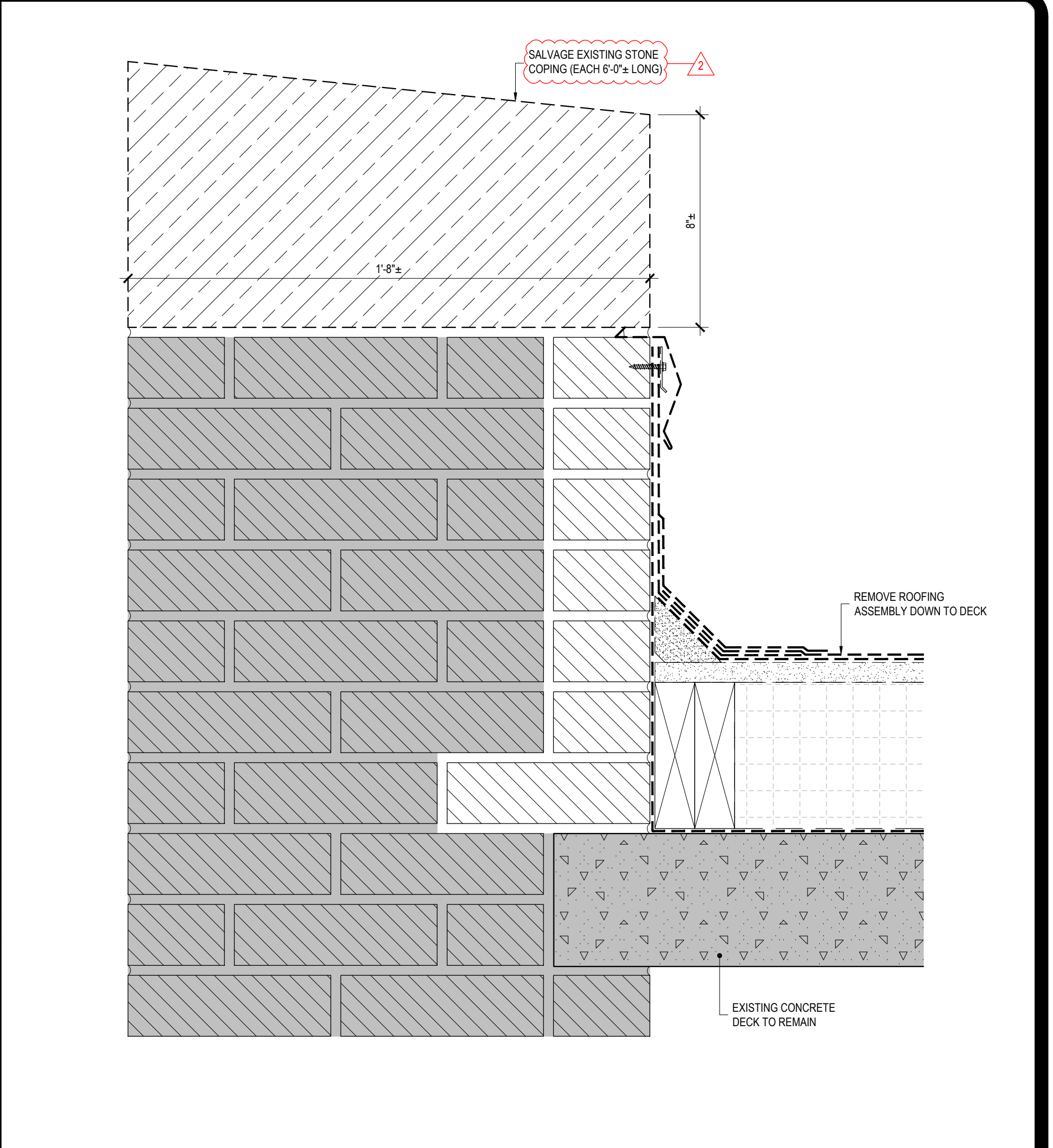
SHEET 14 OF 20



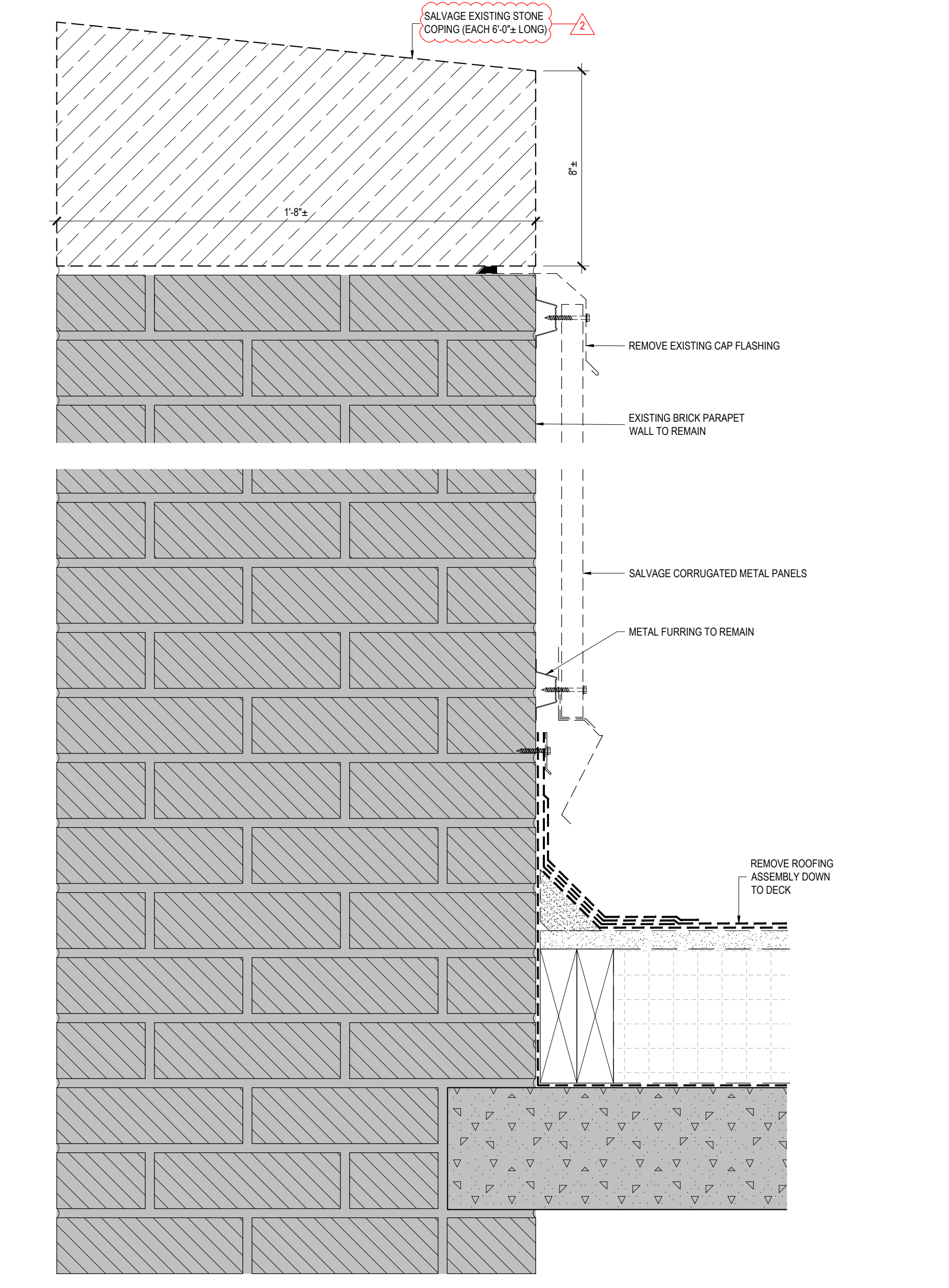
**5 BUILDING EXPANSION JOINT REMOVALS BETWEEN ROOFS C AND F**  
REF: 1/A-011 SCALE: 3" = 1'-0"



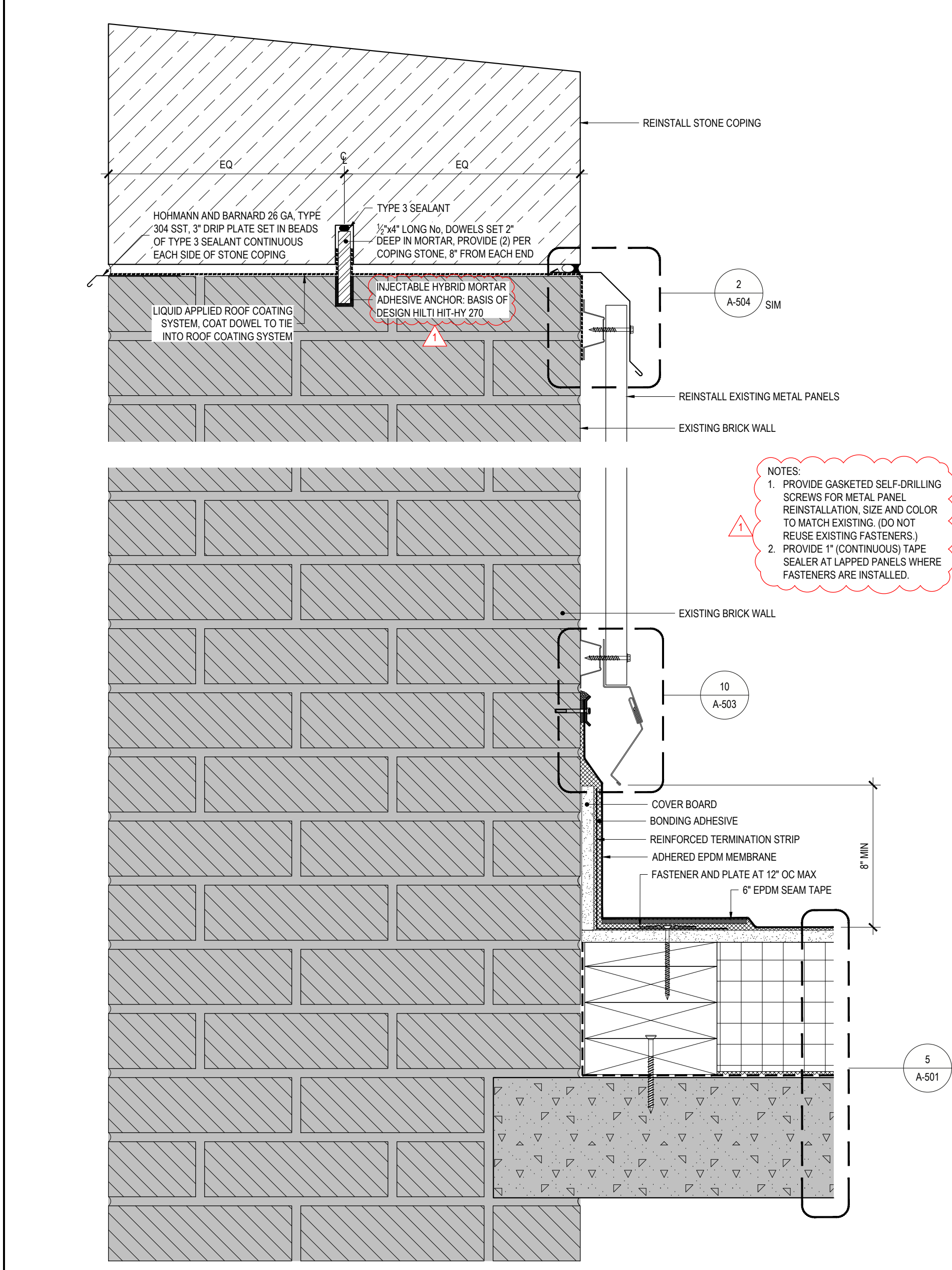
**6 BUILDING EXPANSION JOINT BETWEEN ROOFS C AND F**  
REF: 1/A-102 SCALE: 3" = 1'-0"



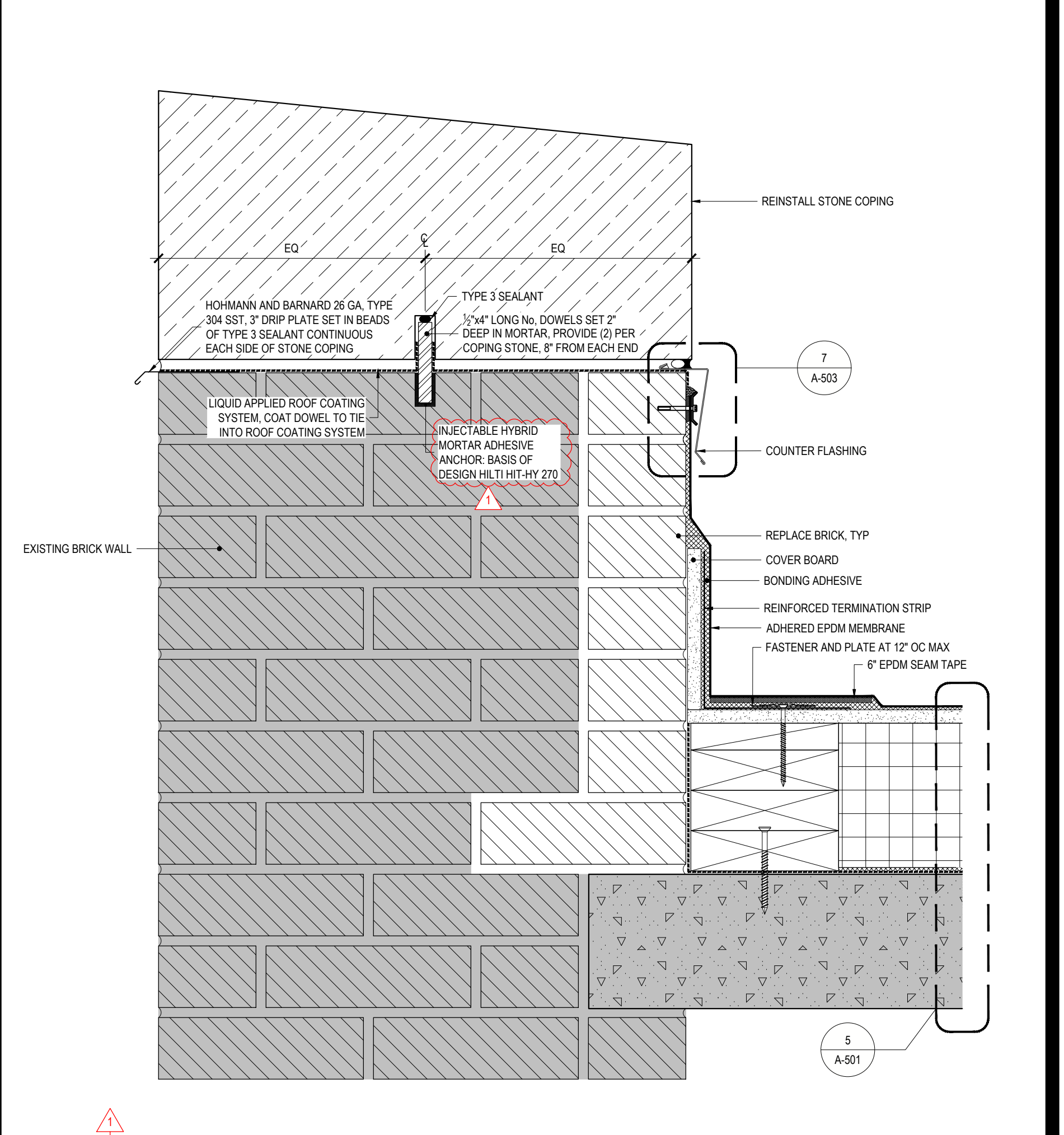
**4 ROOF A PARAPET WALL REMOVAL**  
REF: 3/A-010 SCALE: 3" = 1'-0"



**1 ROOF B AND C PARAPET WALL AND INTERIOR TURRET WALL REMOVAL**  
REF: 1/A-011 SCALE: 3" = 1'-0"

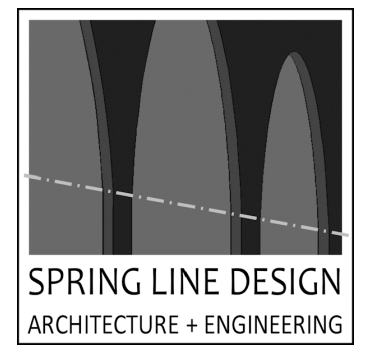


**2 ROOF B AND C PARAPET WALL AND INTERIOR TURRET WALL DETAIL**  
REF: 1/A-102 SCALE: 3" = 1'-0"



**3 ROOF A PARAPET WALL FLASHING DETAIL**  
REF: 4/A-101 SCALE: 3" = 1'-0"

CONSULTANT  
CERTIFICATE OF AUTHORIZATION No.: 0019551



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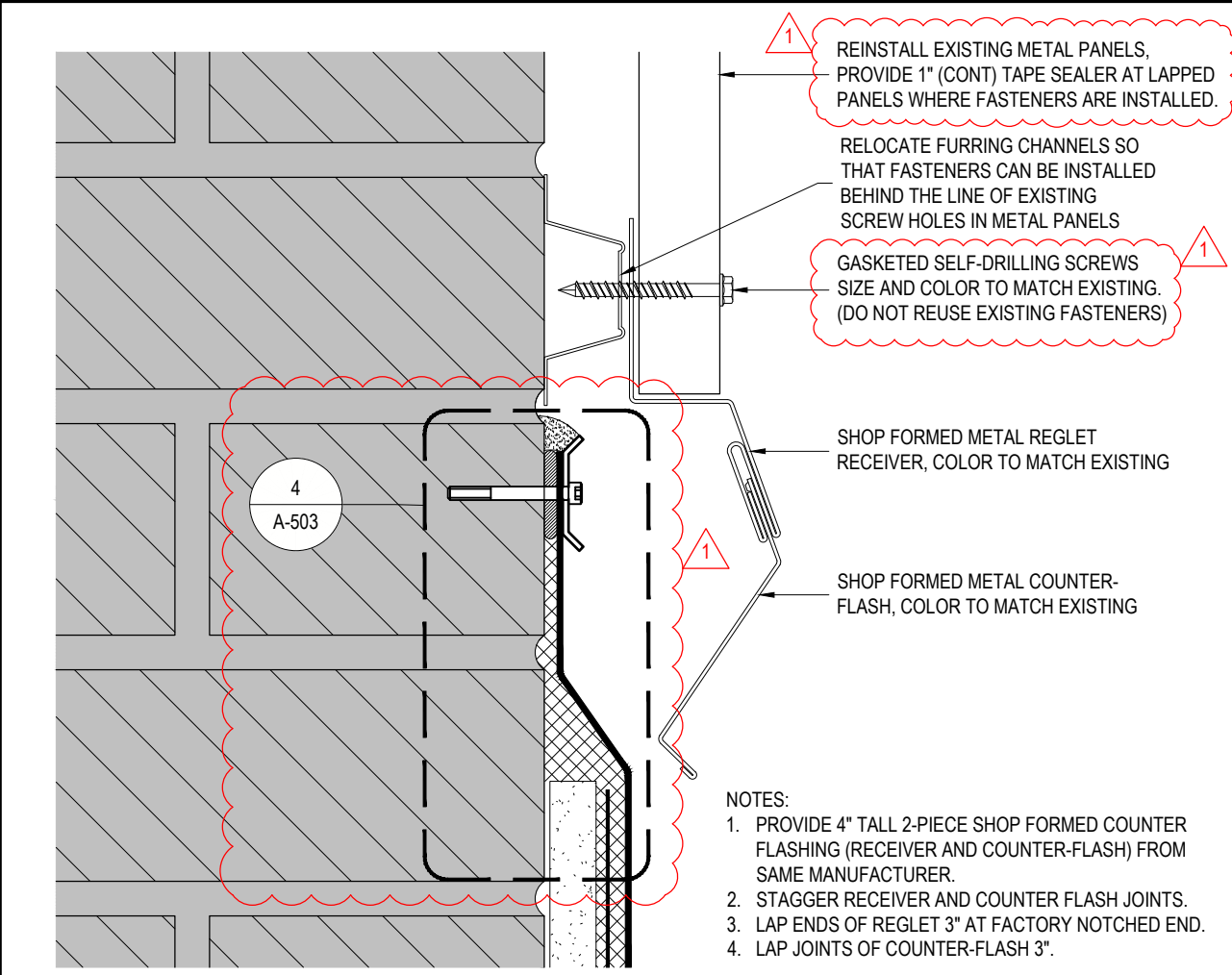
**CONSTRUCTION**

TITLE: REPAIR ROOF STATE ARMYORY  
LOCATION: BUILDING No. 71 321 MANOR ROAD STATEN ISLAND, NY  
CLIENT: DIVISION OF MILITARY AND NAVAL AFFAIRS

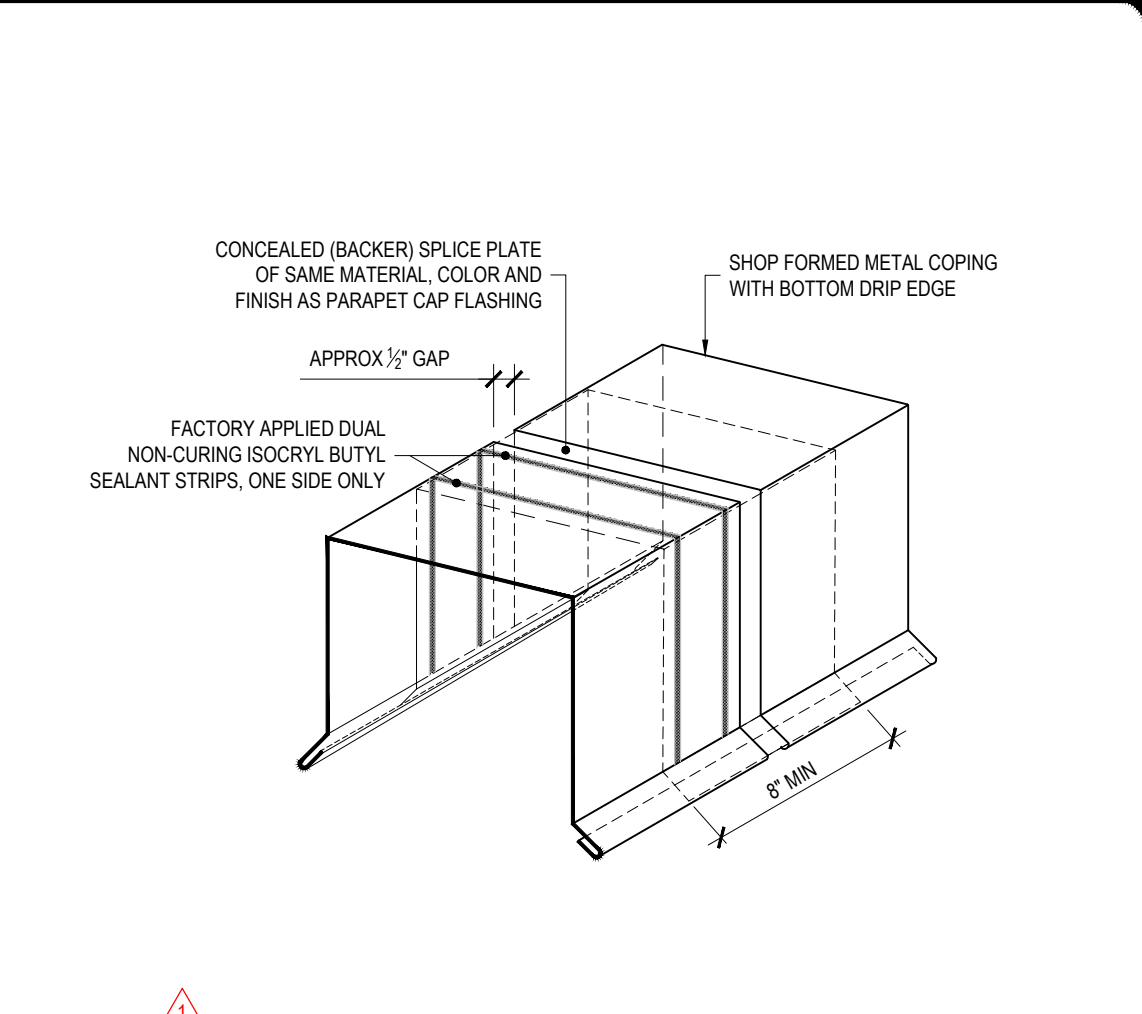
**REVISED DRAWING 08/26/2024**

MARK	DATE	DESCRIPTION
2	08/26/2024	ADDENDUM 3
3	08/07/2024	ADDENDUM 1
	05/24/2024	BID DOCUMENT

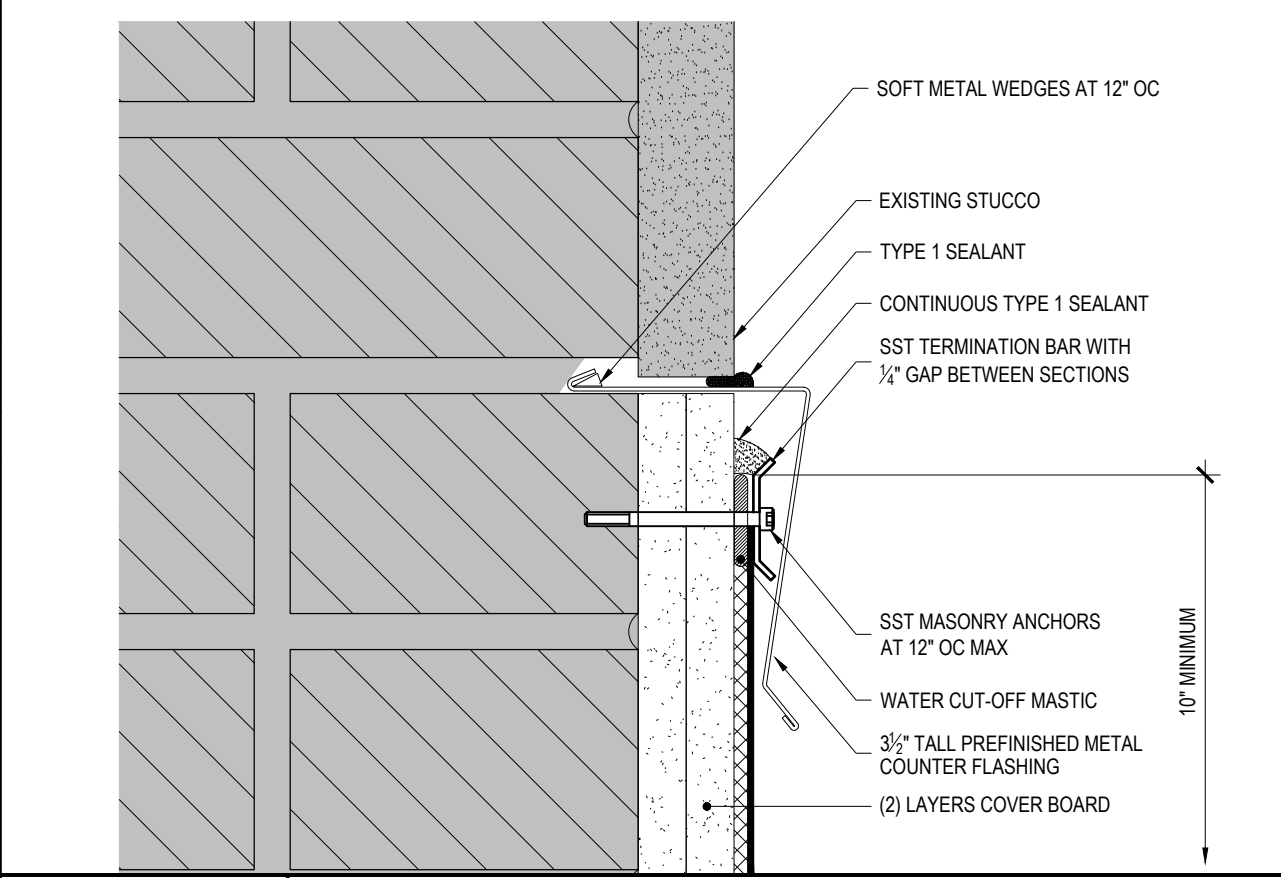
PROJECT NUMBER: 47599 - C  
DESIGNED BY: KK  
DRAWN BY: SS  
FIELD CHECK:  
APPROVED:  
SHEET TITLE: ROOF DETAILS  
DRAWING NUMBER: A-503



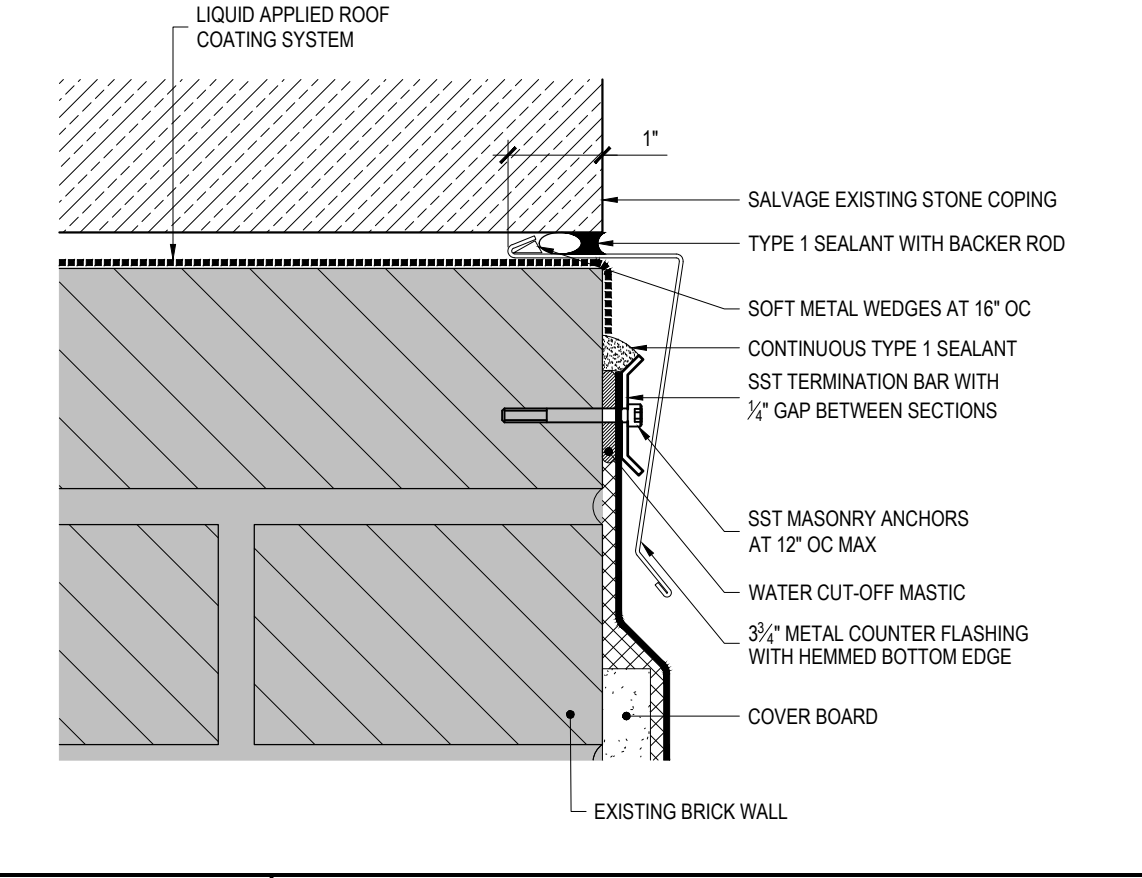
**10 SHOP FORMED COUNTER FLASHING**  
REF: 2/A-502 SCALE: 6" = 1'-0"



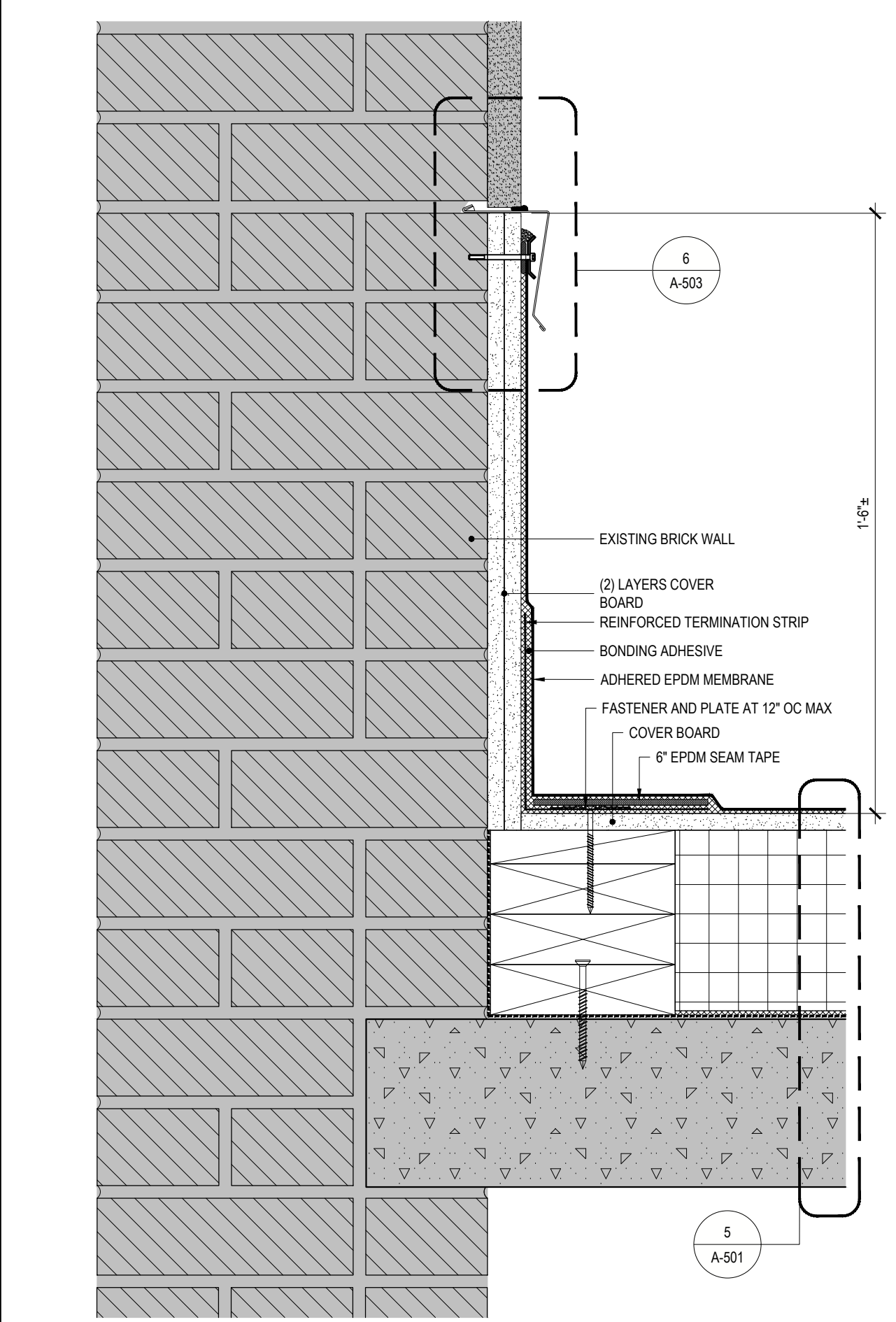
**11 METAL COPING SPLICE PLATE**  
REF: NONE SCALE: 1 1/2" = 1'-0"



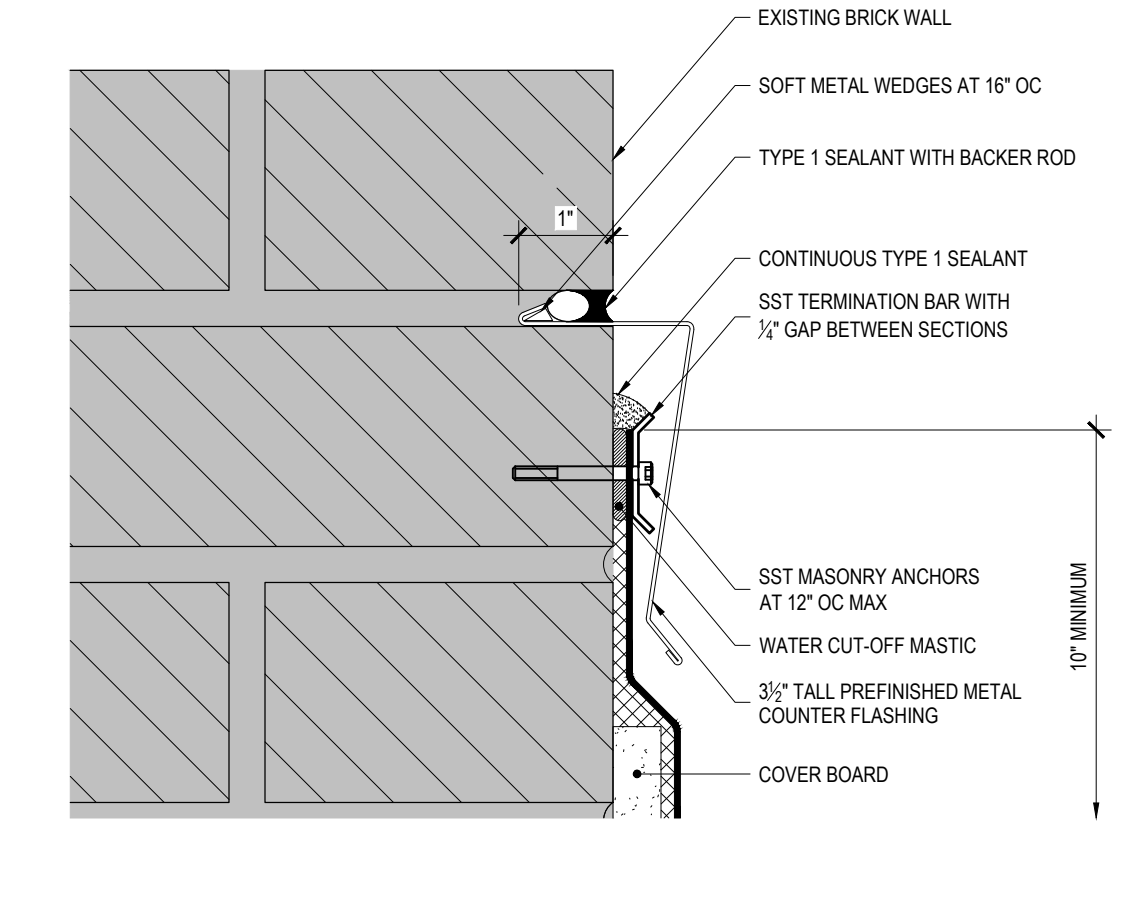
**6 STUCCO WALL COUNTER FLASHING DETAIL**  
REF: 3/A-503 SCALE: 6" = 1'-0"



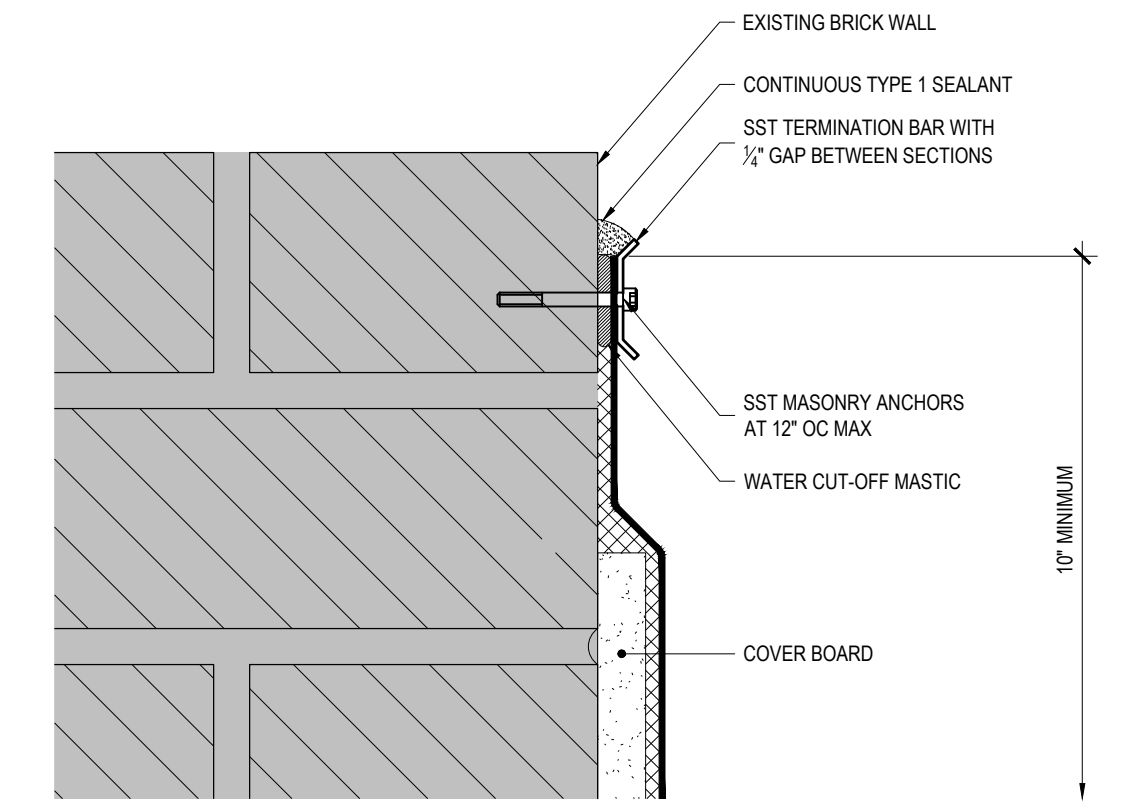
**7 COUNTER FLASHING AT STONE COPING**  
REF: 3/A-502 SCALE: 6" = 1'-0"



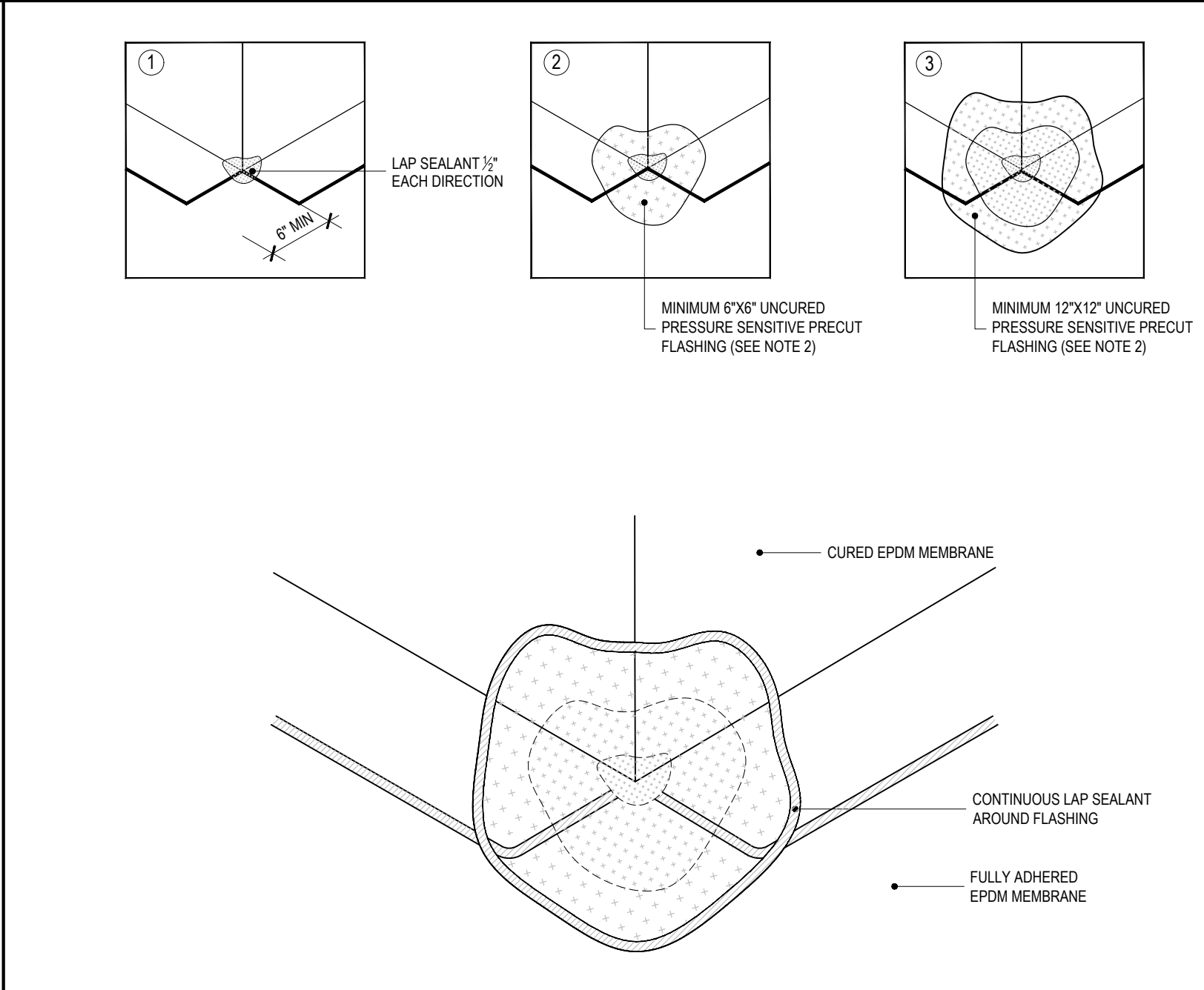
**3 STUCCO WALL BASE DETAIL**  
REF: 4/A-101 SCALE: 3" = 1'-0"



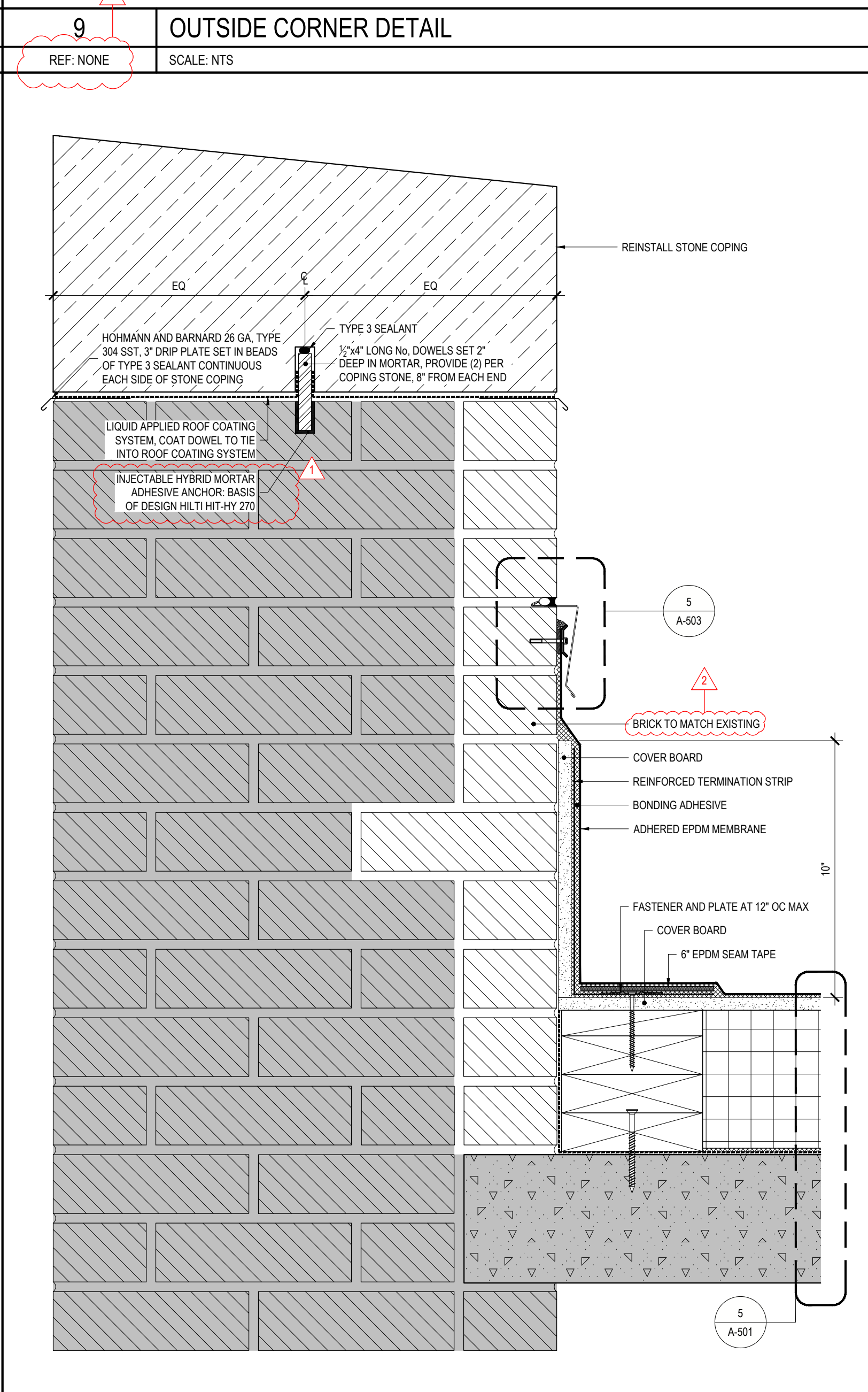
**5 TYPICAL COUNTER FLASHING AT PARAPET**  
REF: 2/A-503 SCALE: 6" = 1'-0"



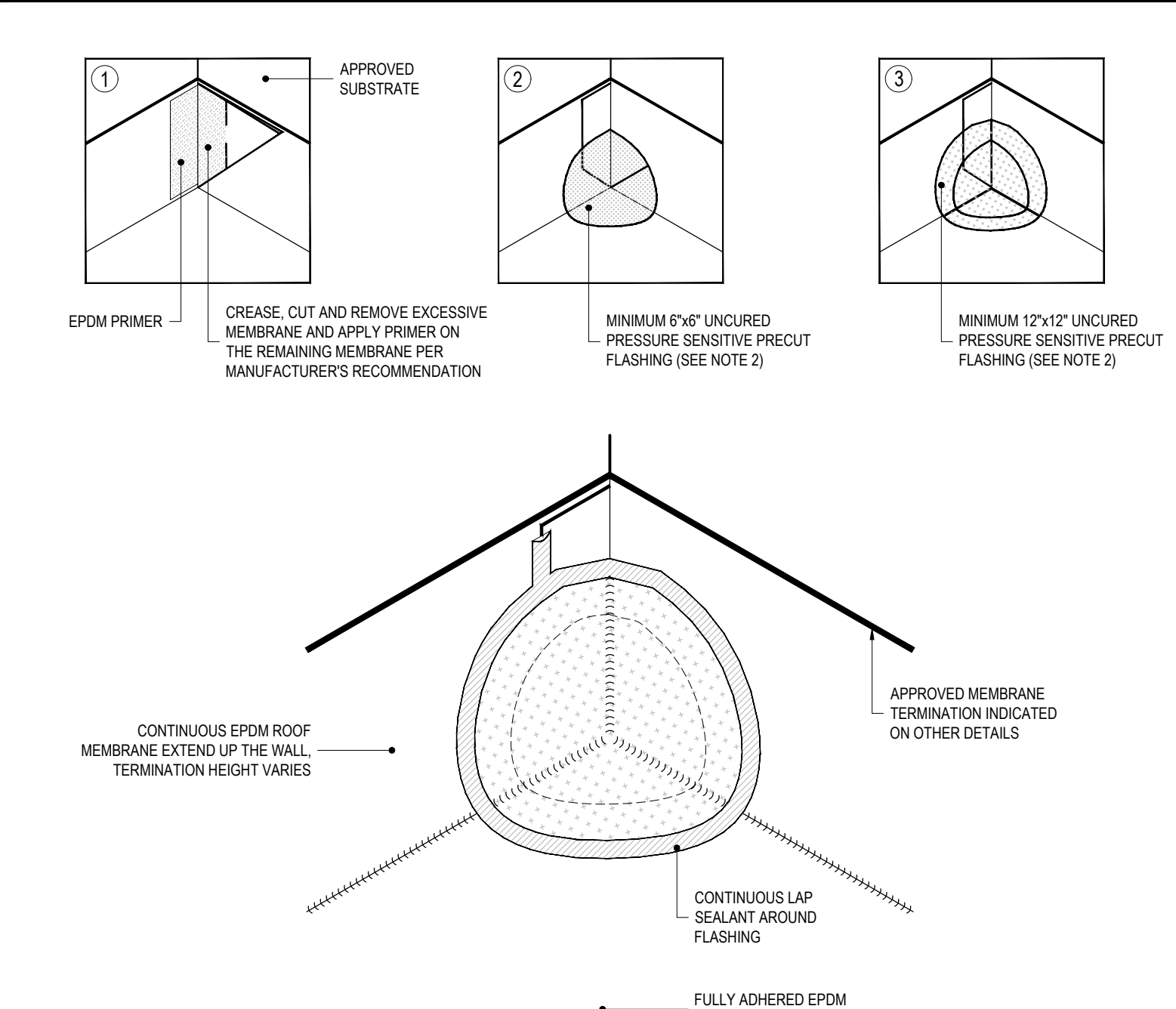
**4 TYPICAL TERMINATION BAR AT PARAPET**  
REF: 10/A-503 SCALE: 6" = 1'-0"



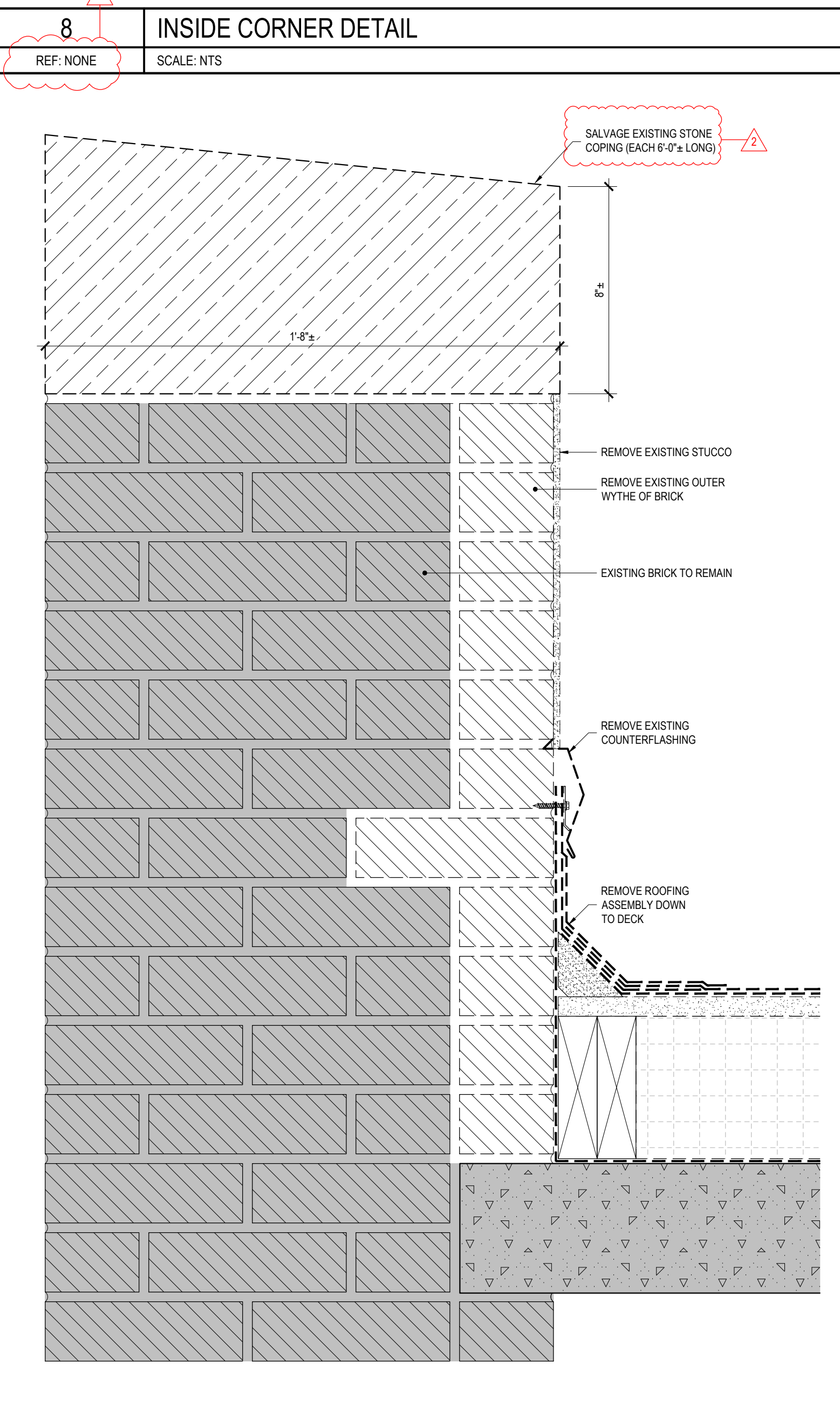
**9 OUTSIDE CORNER DETAIL**  
REF: NONE SCALE: NTS



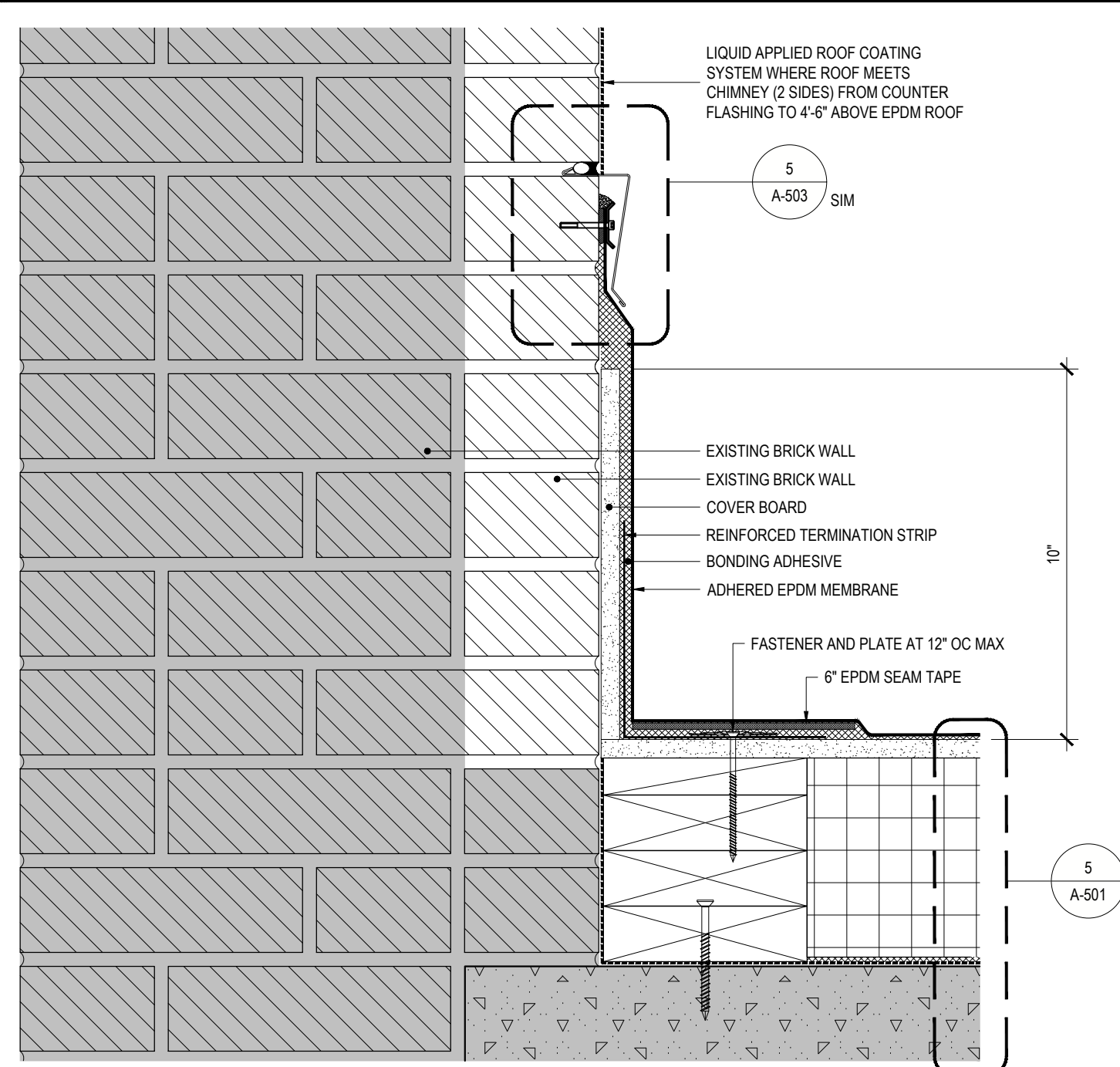
**2 ROOF A PARAPET WALL FLASHING DETAIL**  
REF: 4/A-101 SCALE: 3" = 1'-0"



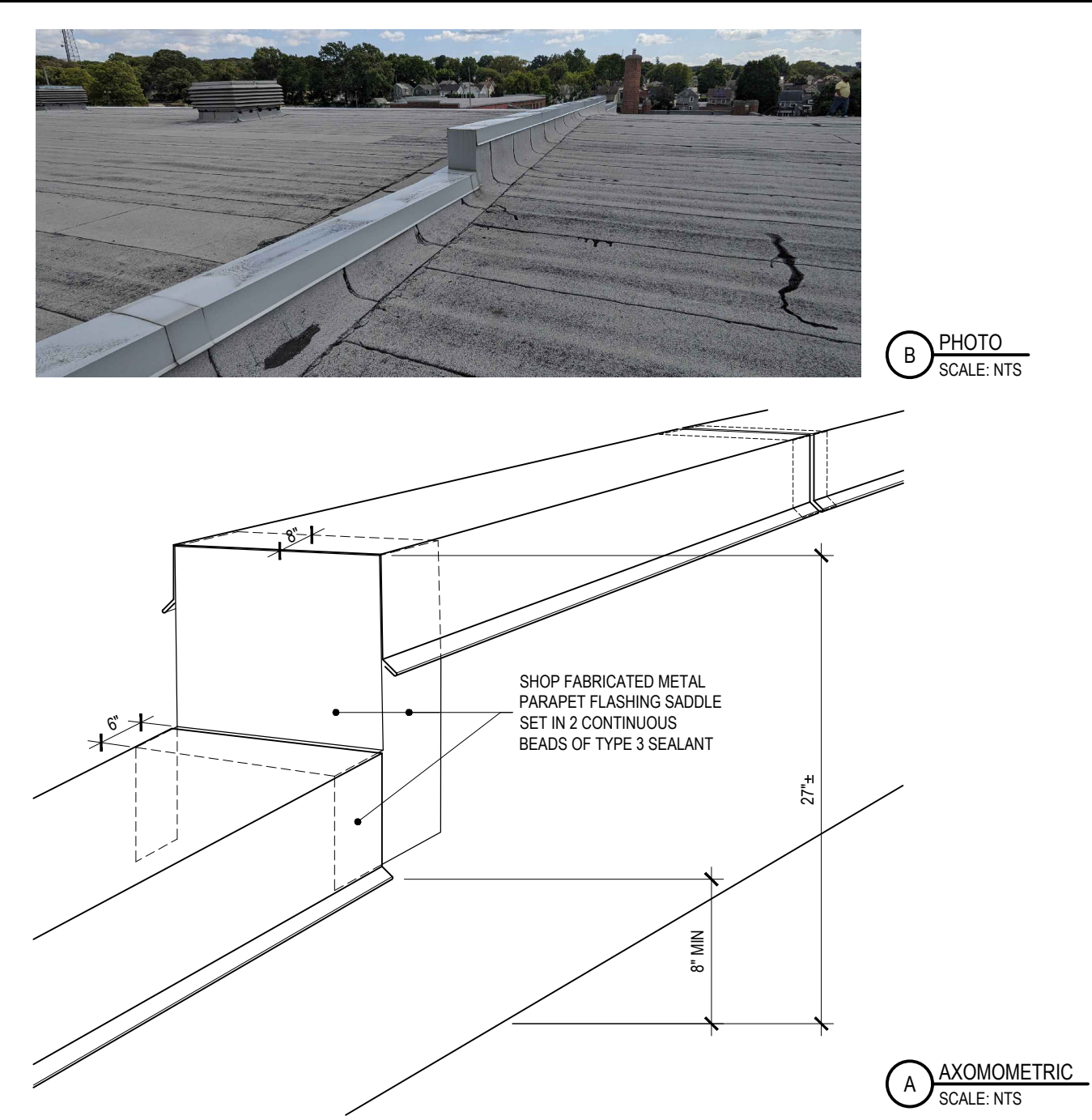
**8 INSIDE CORNER DETAIL**  
REF: NONE SCALE: NTS



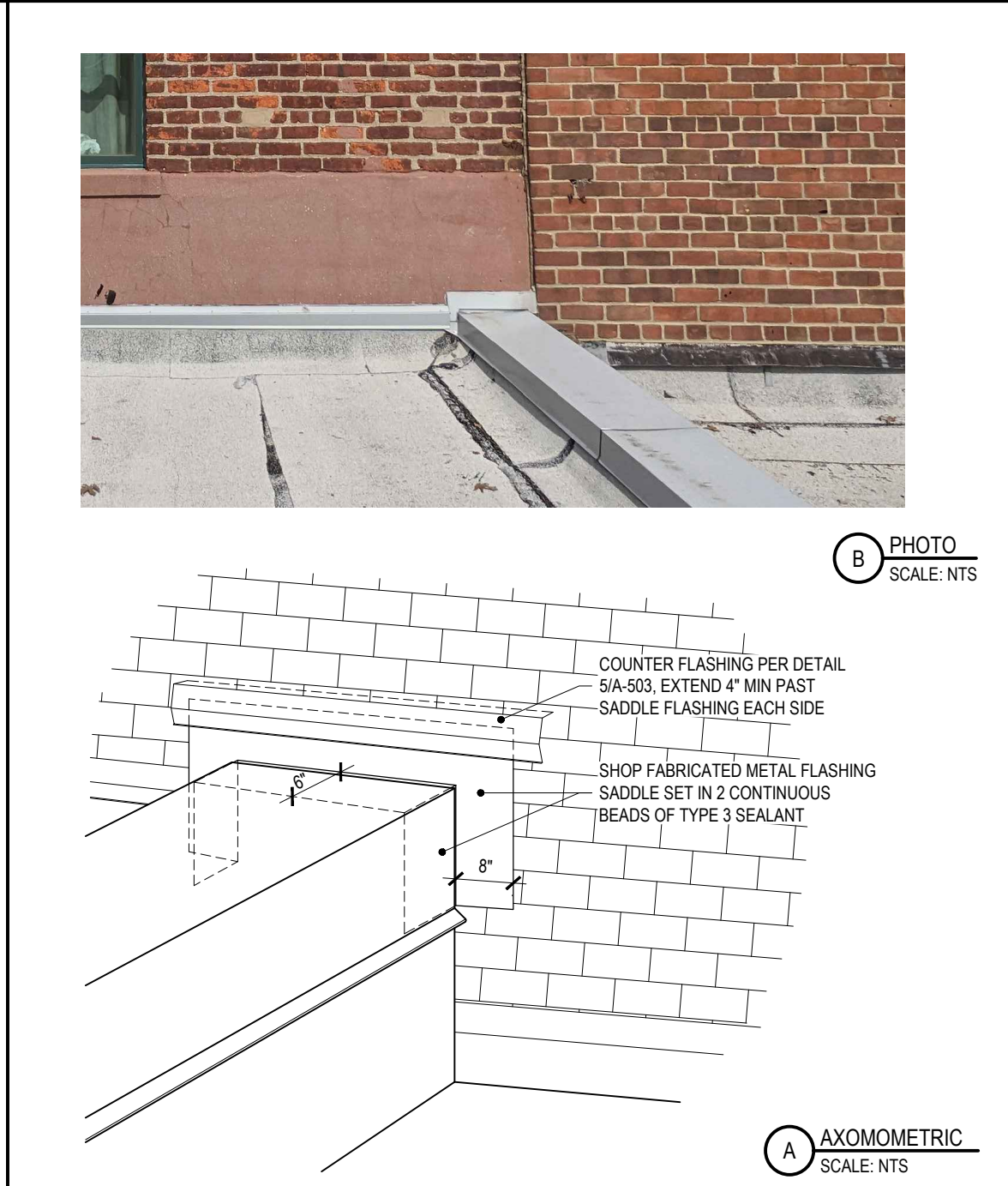
**1 ROOF A PARAPET WALL REMOVAL**  
REF: 3/A-101 SCALE: 3" = 1'-0"



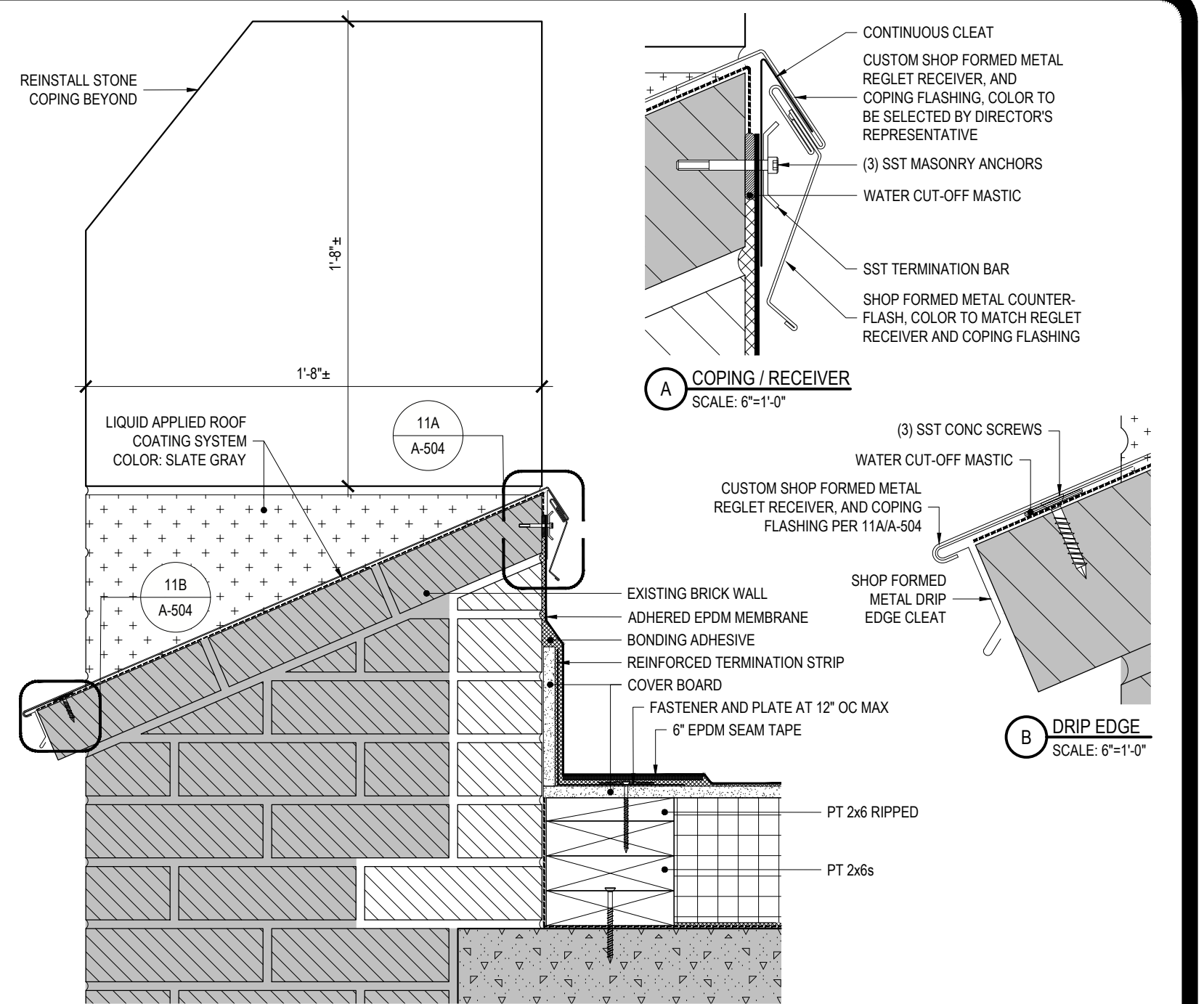
**8 BASE FLASHING**  
REF: 1/A-102 SCALE: 3" = 1'-0"  
**ALTERNATE No. 1**



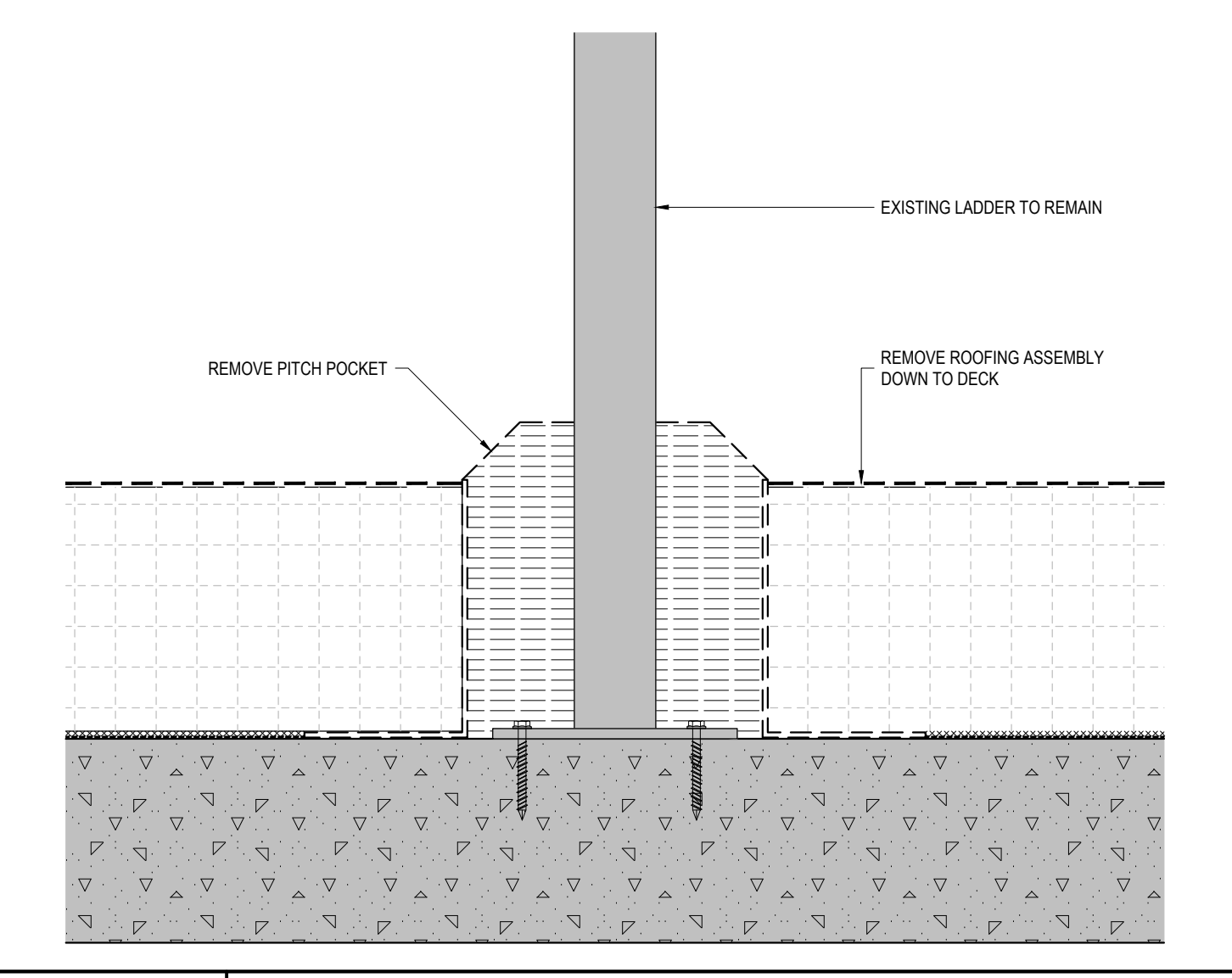
**9 BUILDING EXPANSION JOINT STEP**  
REF: 1/A-001, 4/A-101 SCALE: NTS



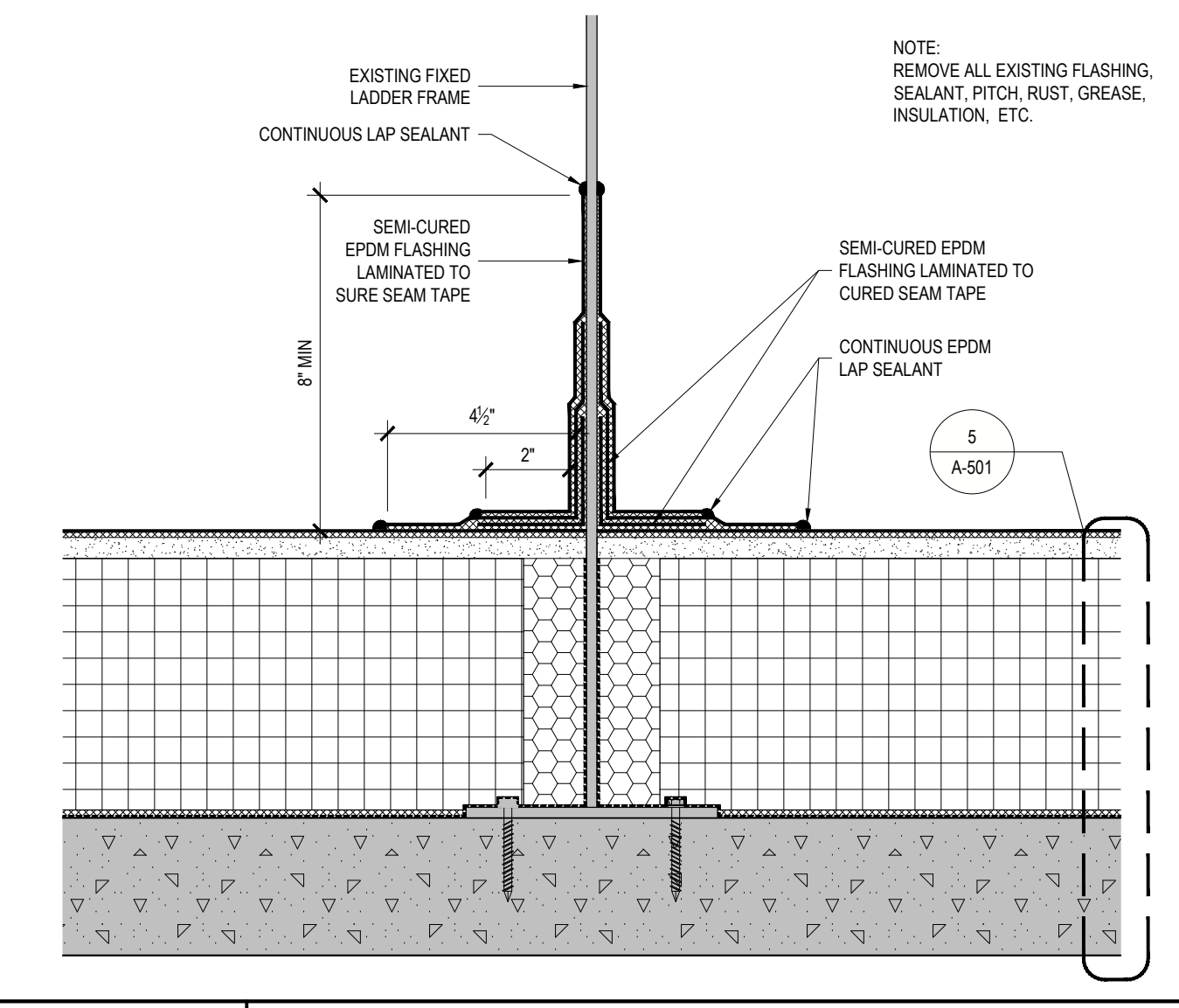
**10 PARAPET TO WALL FLASHING**  
REF: 1/A-001, SCALE: NTS



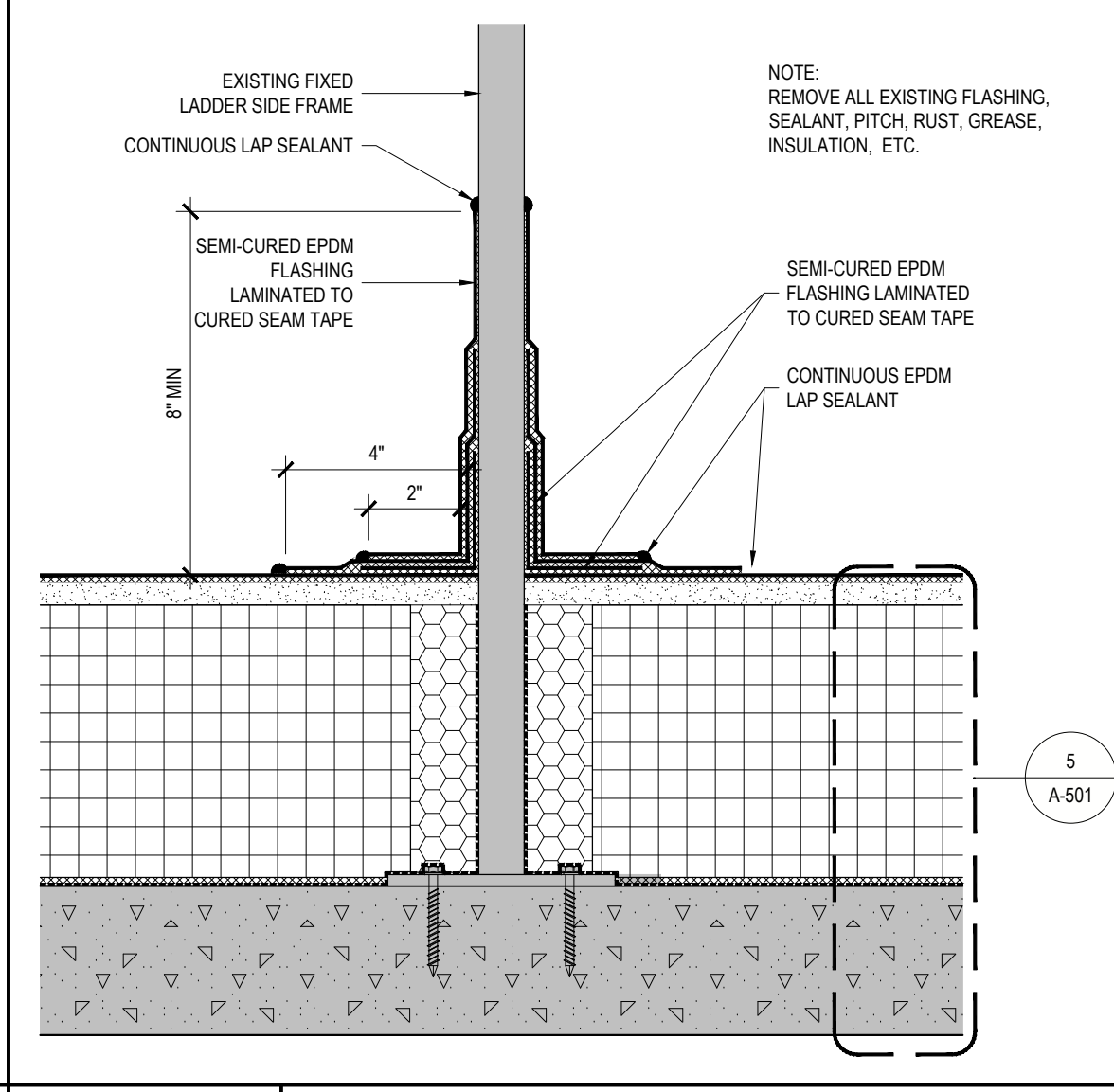
**11 CRENEL FLASHING**  
REF: 4/A-101 SCALE: 2" = 1'-0"



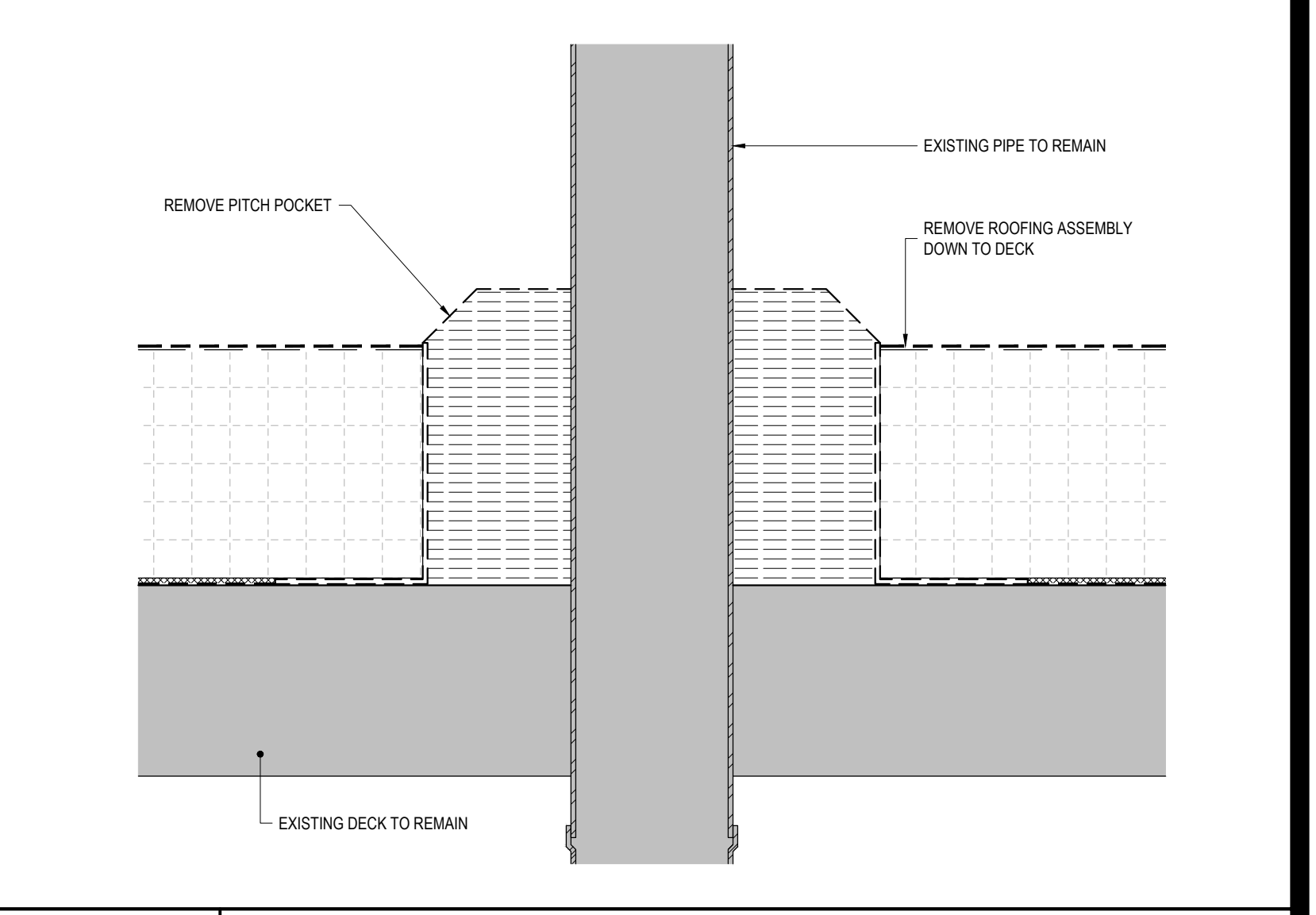
**4 LADDER PITCH POCKET REMOVAL**  
REF: 3/A-010, 1/A-011 SCALE: 3" = 1'-0"



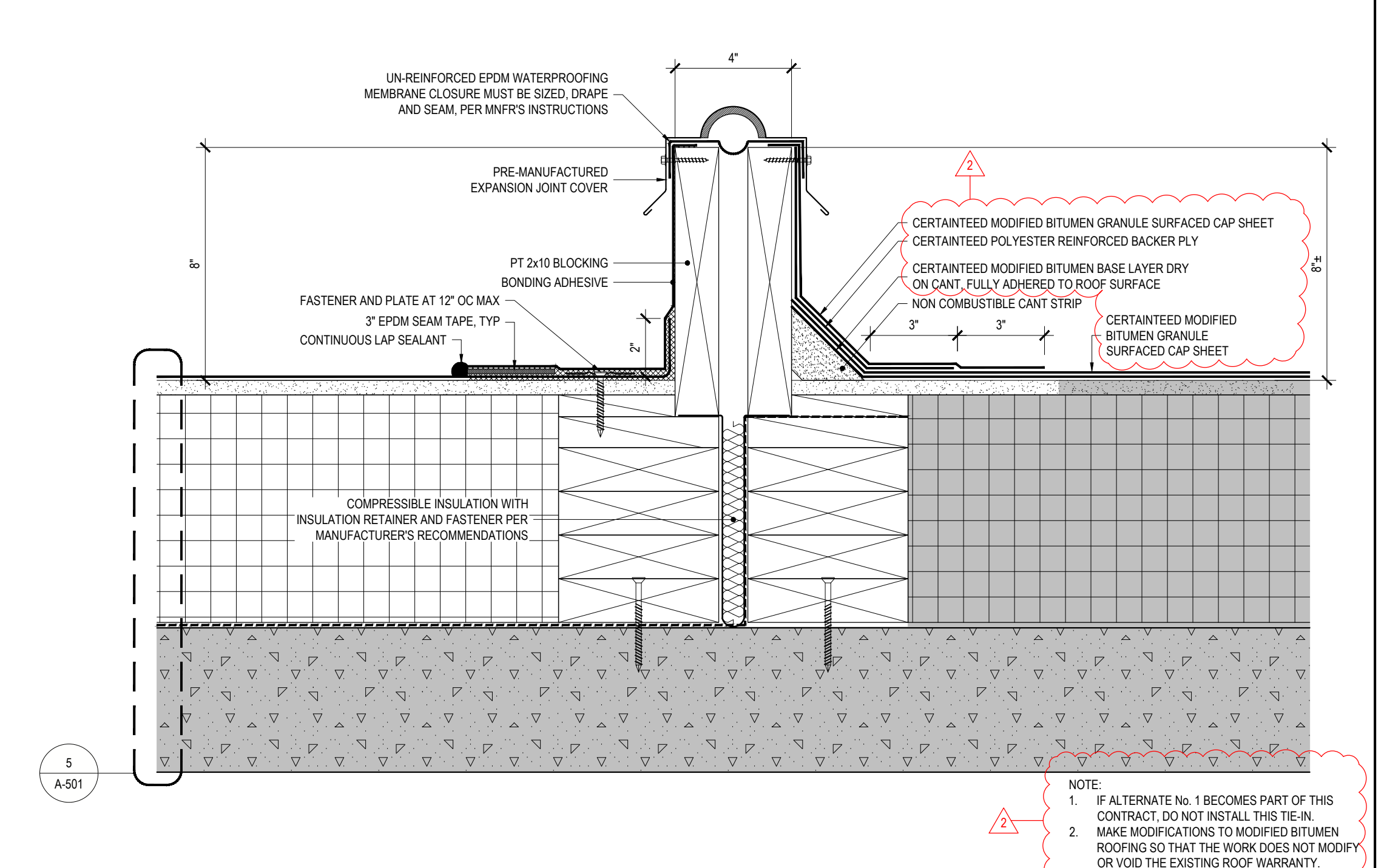
**5 FIELD FABRICATED FLASHING**  
REF: 4/A-101, 1/A-102 SCALE: 3" = 1'-0"



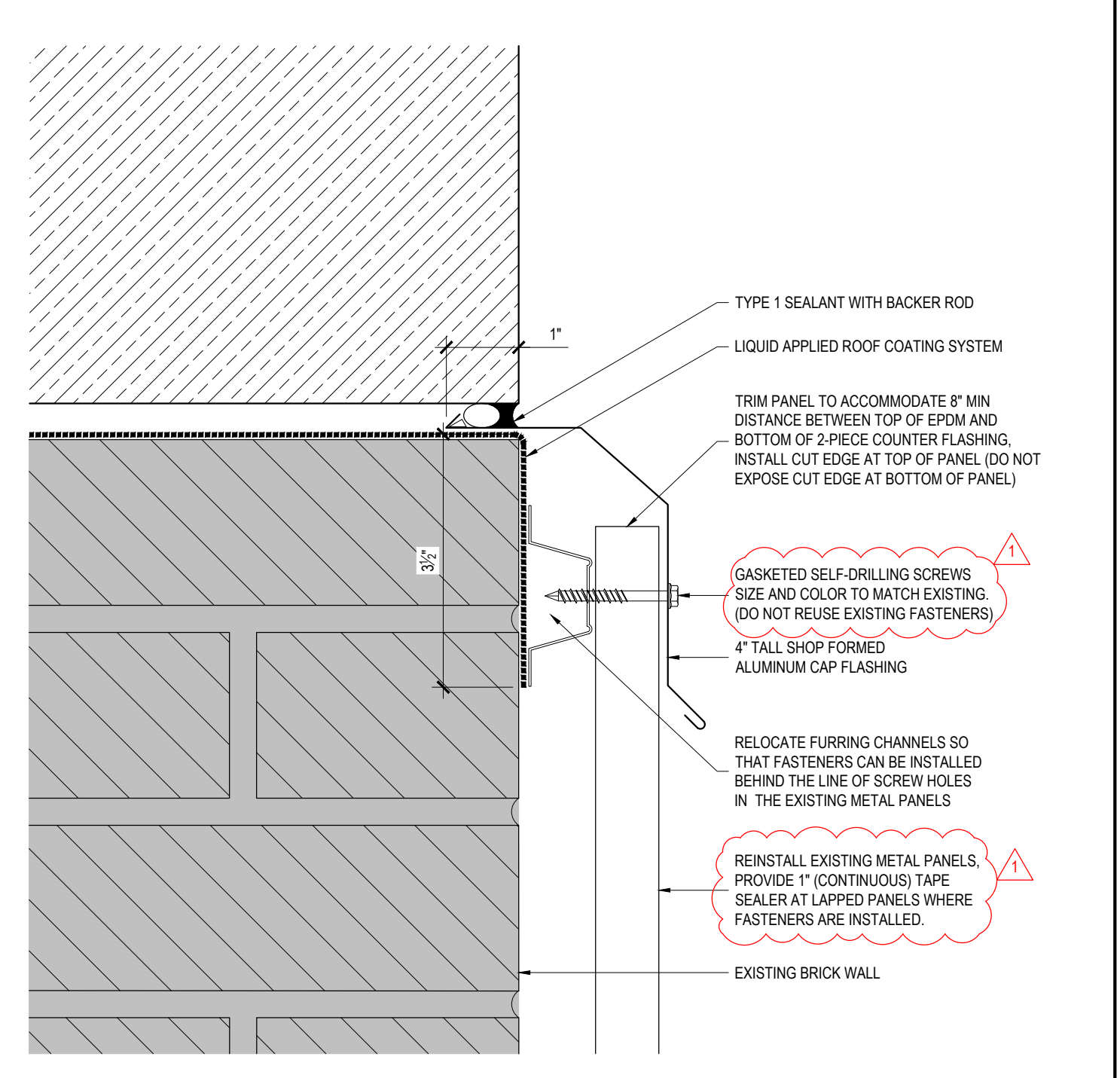
**6 FIELD FABRICATED FLASHING**  
REF: 4/A-101, 1/A-102 SCALE: 3" = 1'-0"



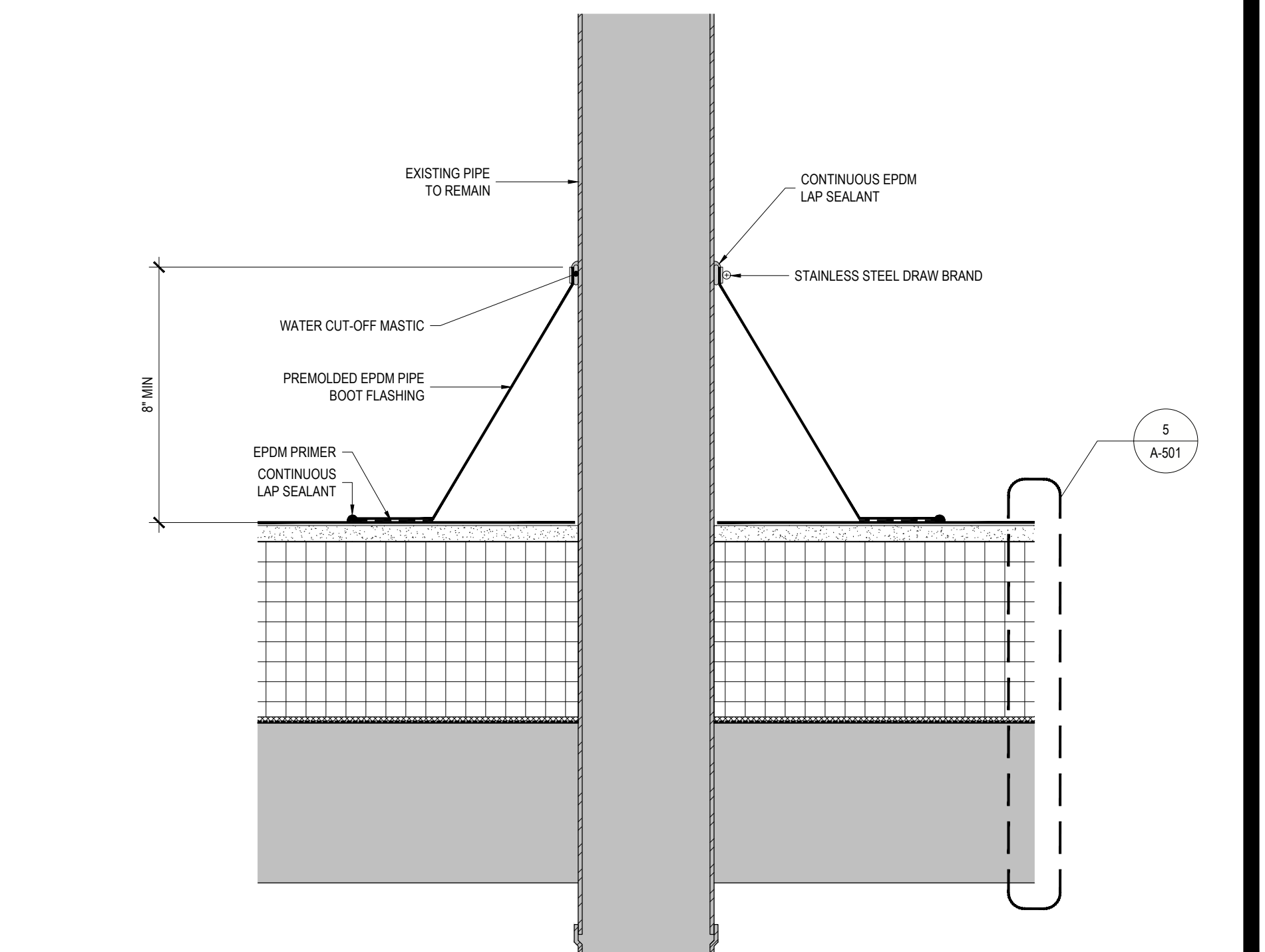
**7 PIPE PENETRATION PITCH POCKET REMOVAL**  
REF: 3/A-010, 1/A-011 SCALE: 3" = 1'-0"



**1 ROOF AREA C EPDM TO EXISTING MODIFIED BITUMEN TIE-IN**  
REF: 1/A-102 SCALE: 3" = 1'-0"



**2 COUNTER FLASHING AT CORRUGATED METAL PANEL**  
REF: 2/A-502 SCALE: 6" = 1'-0"



**3 PIPE BOOT FLASHING DETAIL**  
REF: A-101, A-102 SCALE: 3" = 1'-0"

**NEW YORK STATE Office of General Services**  
DESIGN & CONSTRUCTION

CONSULTANT  
CERTIFICATE OF AUTHORIZATION No.: 0019551

**SPRING LINE DESIGN**  
ARCHITECTURE + ENGINEERING

**ENERGY CODE STATEMENT:**  
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**REGISTERED ARCHITECT**  
KRISTIN KNICKERBOCKER  
STATE OF NEW YORK  
REGISTRATION EXPIRES: 12/31/2026

**CONTRACT: CONSTRUCTION**  
TITLE: REPAIR ROOF STATE ARMY  
LOCATION: BUILDING No. 71 321 MANOR ROAD STATEN ISLAND, NY  
CLIENT: DIVISION OF MILITARY AND NAVAL AFFAIRS

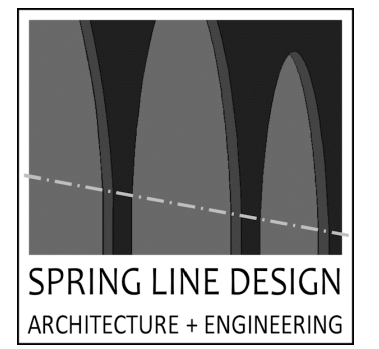
**REVISED DRAWING 08/26/2024**

MARK	DATE	DESCRIPTION
△	08/26/2024	ADDENDUM 3
△	08/07/2024	ADDENDUM 1
△	05/24/2024	BID DOCUMENT

PROJECT NUMBER: **47599 - C**  
DESIGNED BY: KK  
DRAWN BY: SS  
FIELD CHECK:  
APPROVED:  
SHEET TITLE: **ROOF DETAILS**  
DRAWING NUMBER: **A-504**  
SHEET 16 OF 20

36x24 PLOT SHEET

CONSULTANT  
CERTIFICATE OF AUTHORIZATION No.: 0019551



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**CONSTRUCTION**

TITLE: REPAIR ROOF STATE ARMY  
LOCATION: BUILDING No. 71 321 MANOR ROAD STATEN ISLAND, NY  
CLIENT: DIVISION OF MILITARY AND NAVAL AFFAIRS

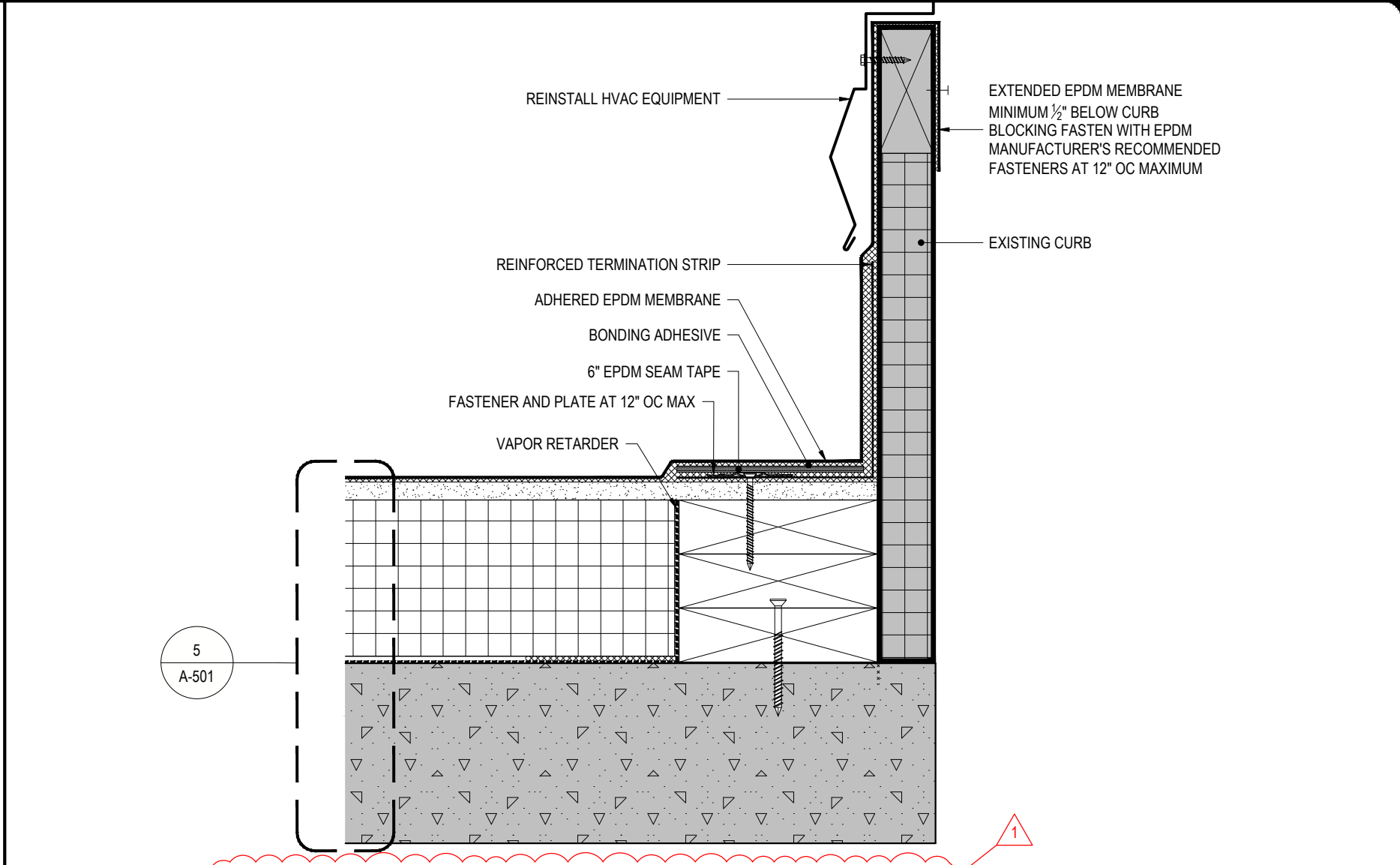
REVISED DRAWING 08/26/2024

MARK	DATE	DESCRIPTION
△	08/26/2024	ADDENDUM 3
△	08/07/2024	ADDENDUM 1
	05/24/2024	BID DOCUMENT

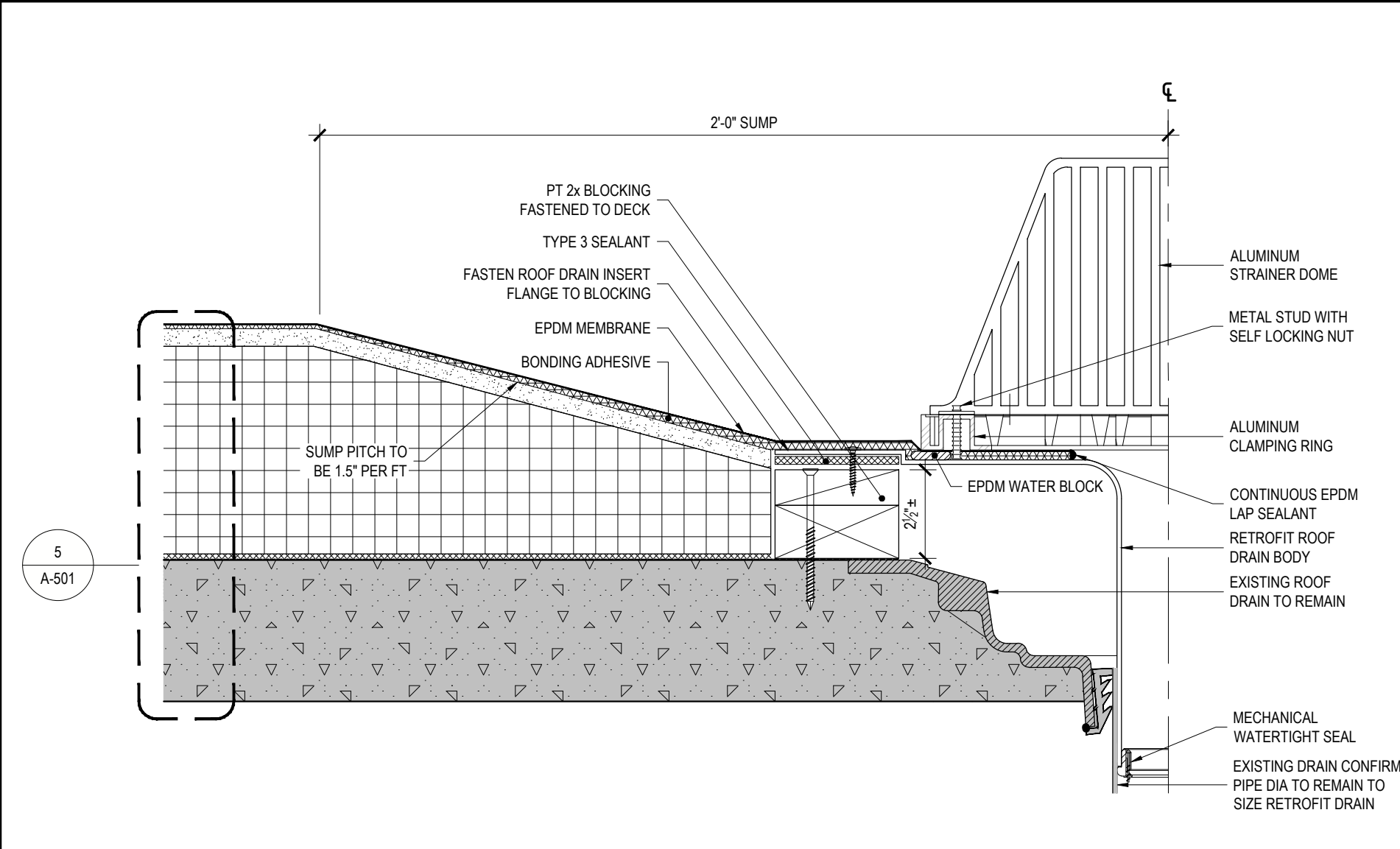
PROJECT NUMBER: 47599 - C  
DESIGNED BY: KK  
DRAWN BY: SS  
FIELD CHECK:  
APPROVED:

SHEET TITLE: ROOF DETAILS

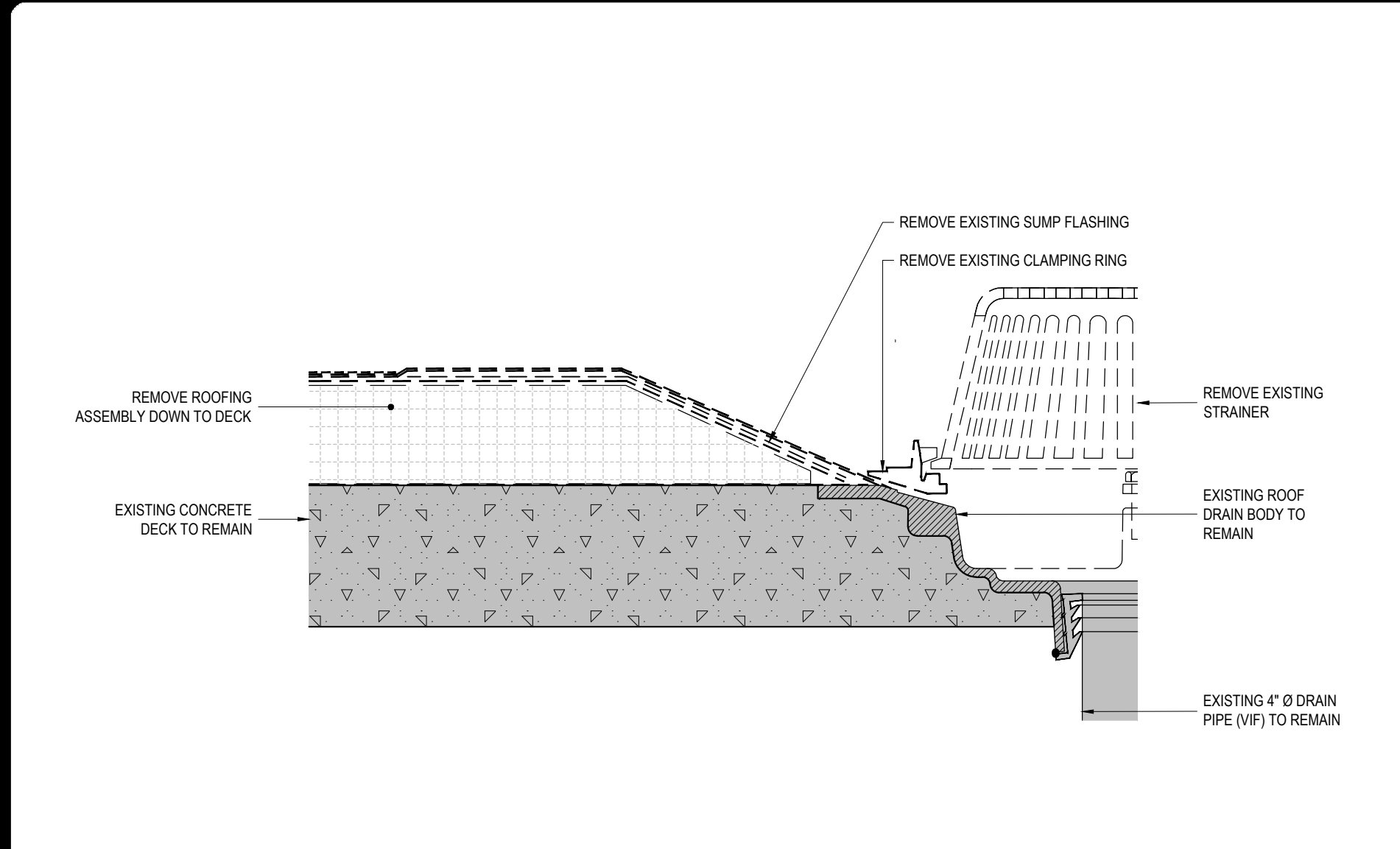
DRAWING NUMBER: A-505  
SHEET 17 OF 20



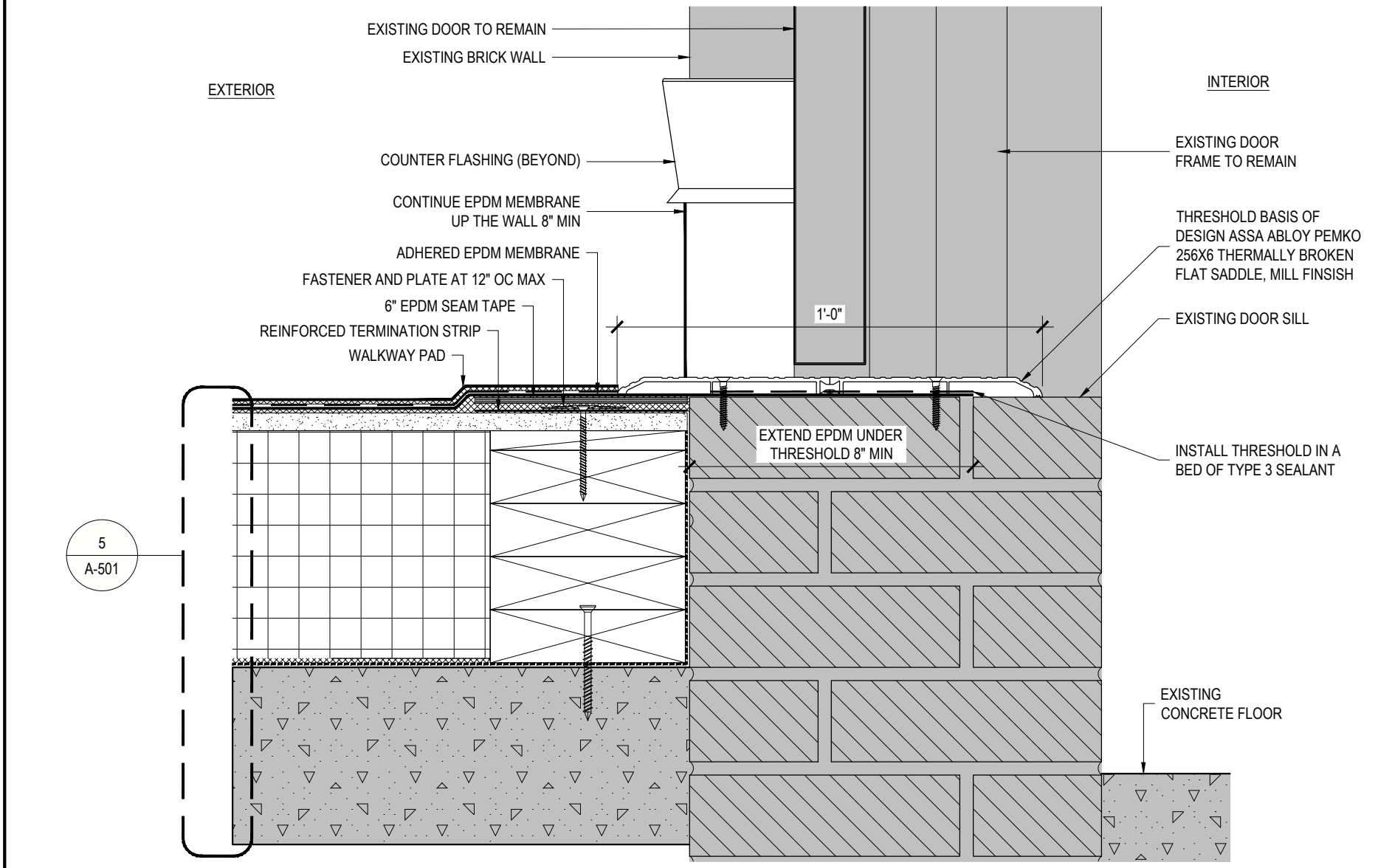
10 TYPICAL EXISTING EQUIPMENT CURB DETAIL  
REF: 1/A-102 SCALE: 3" = 1'-0"



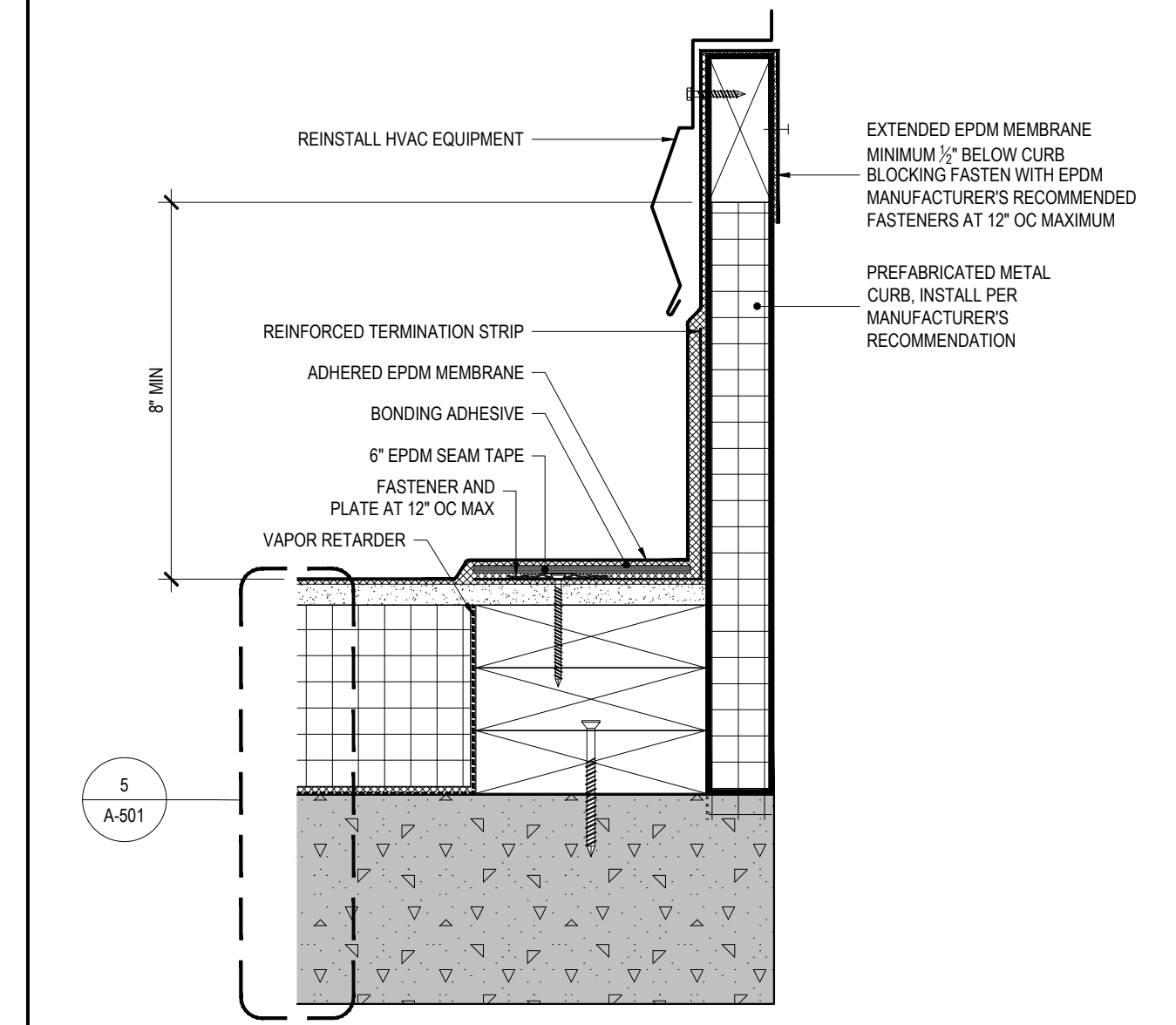
9 TYPICAL ROOF DRAIN DETAIL  
REF: A-101, A-102 SCALE: 3" = 1'-0"



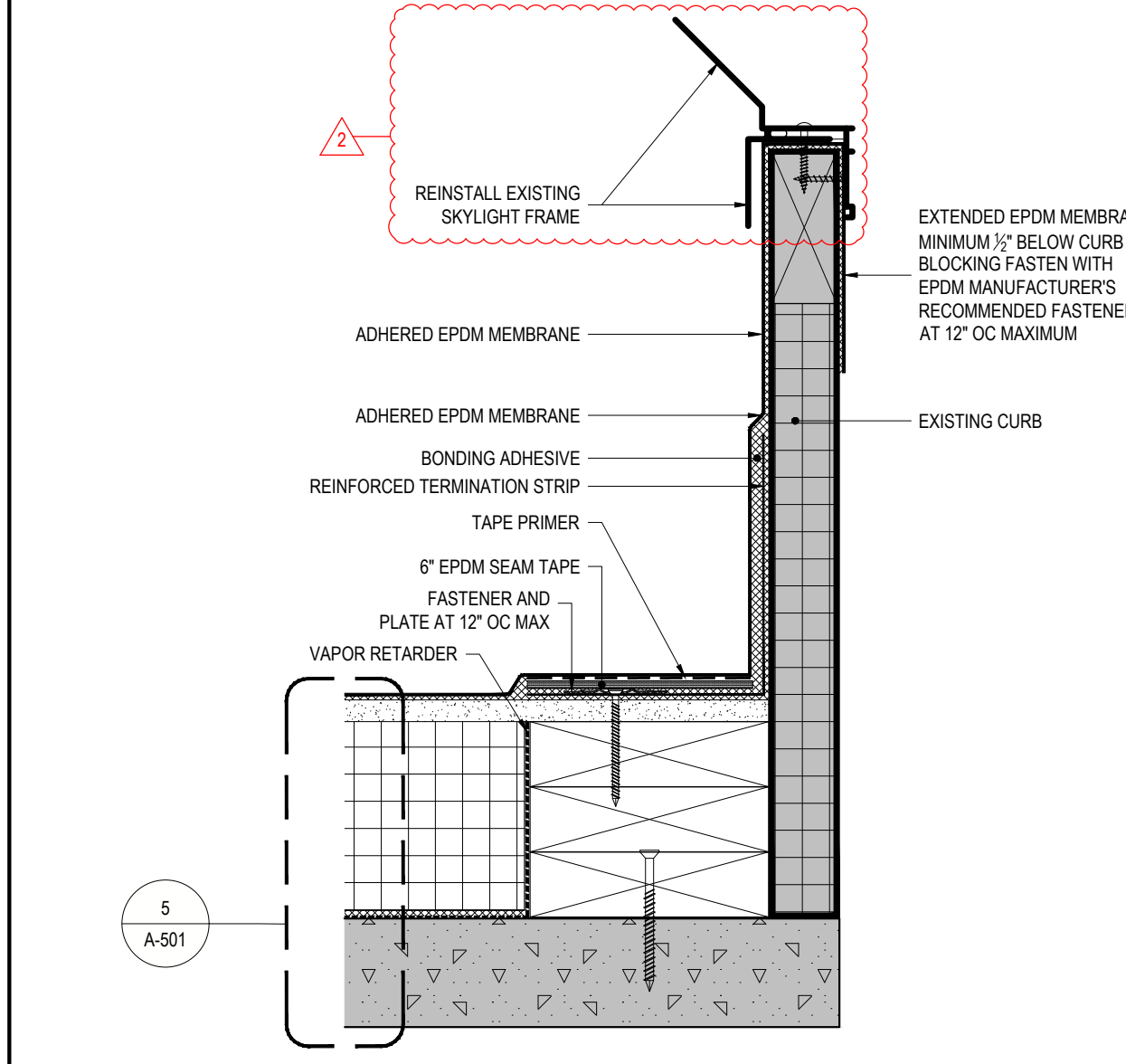
8 TYPICAL ROOF DRAIN REMOVAL  
REF: A-010, A-011 SCALE: 3" = 1'-0"



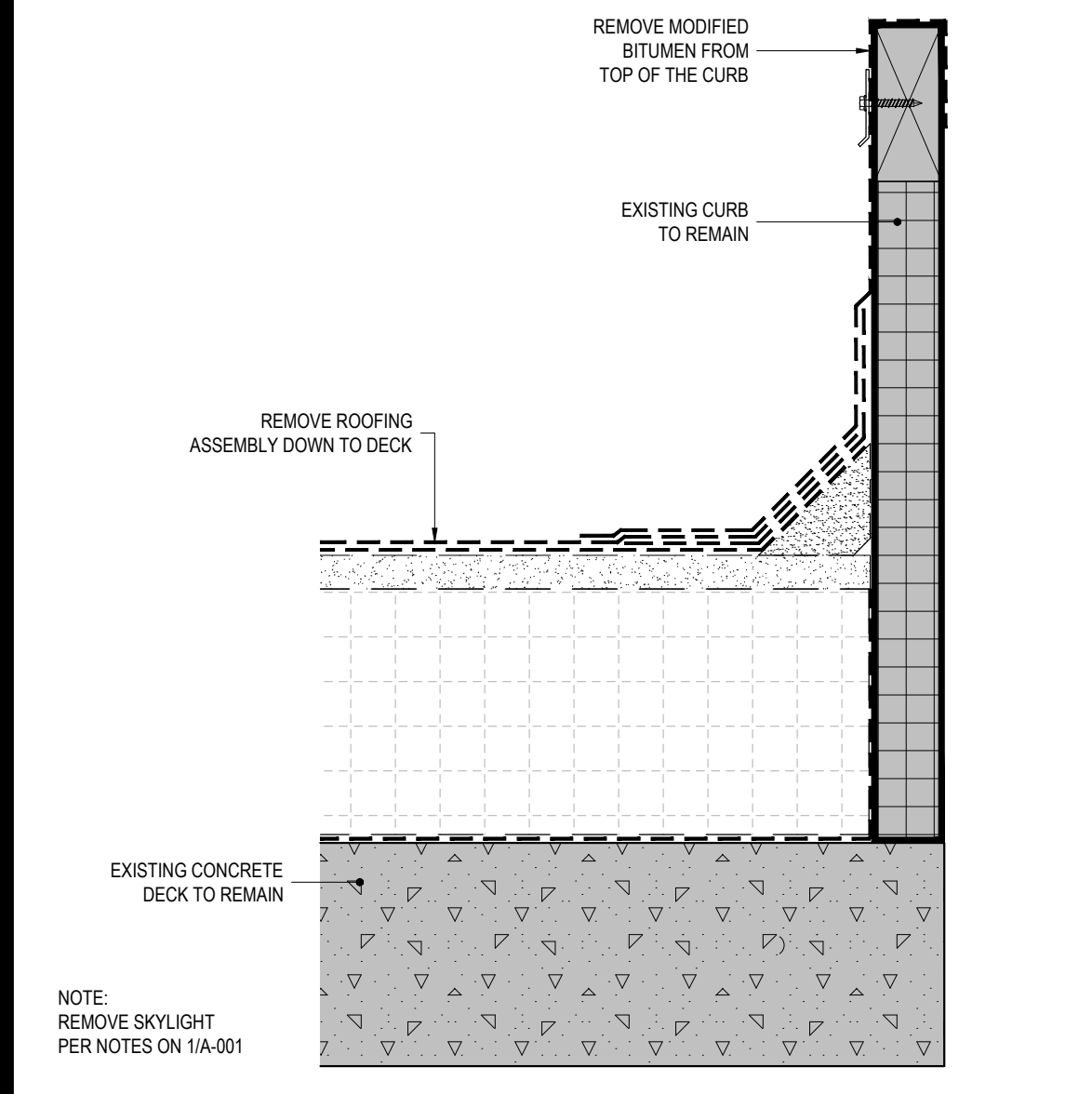
7 ROOF AREA C EXIT DOOR THRESHOLD DETAIL  
REF: 1/A-102 SCALE: 3" = 1'-0"



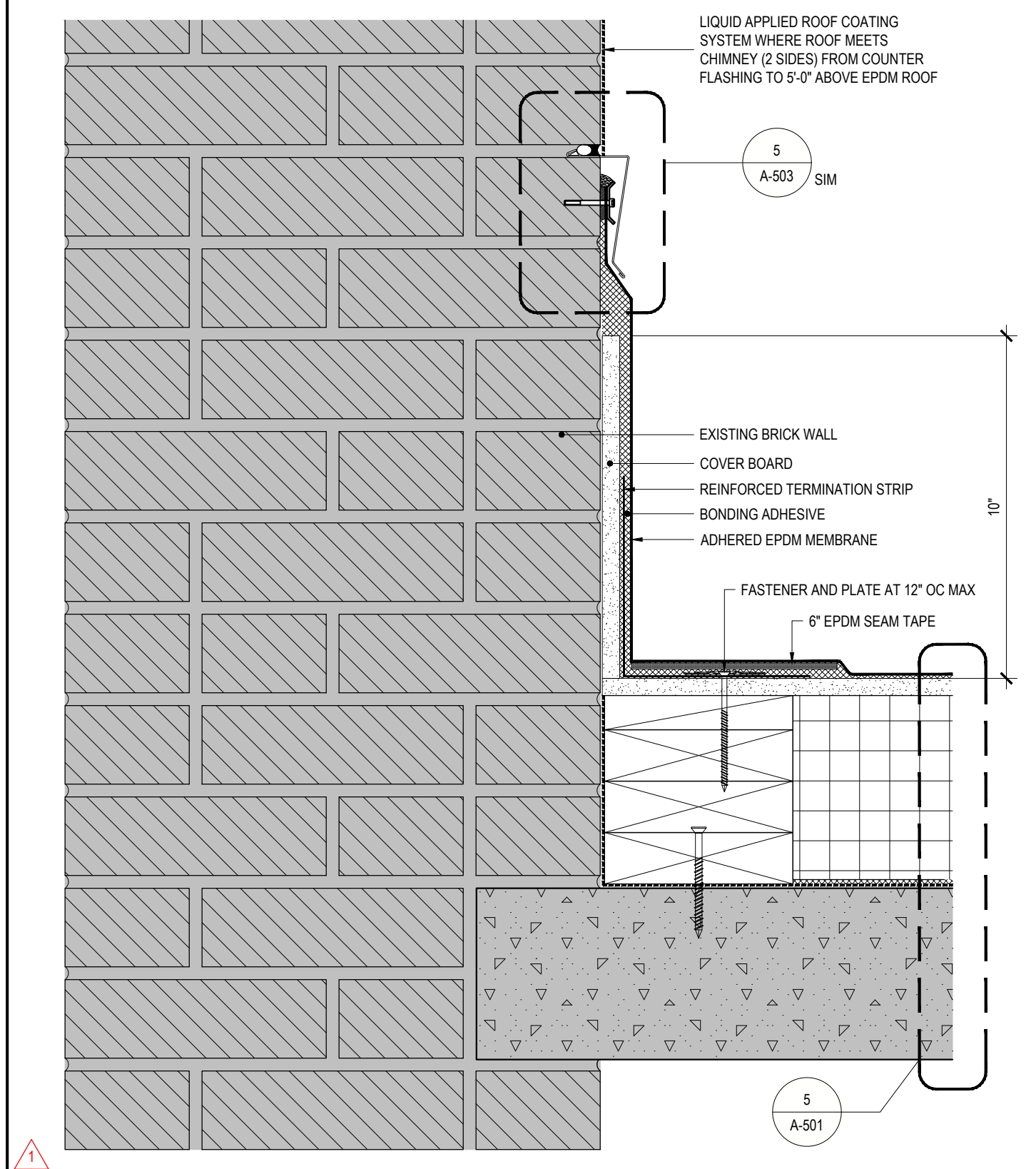
6 TYPICAL EQUIPMENT CURB DETAIL  
REF: 4/A-101, 1/A-102 SCALE: 3" = 1'-0"



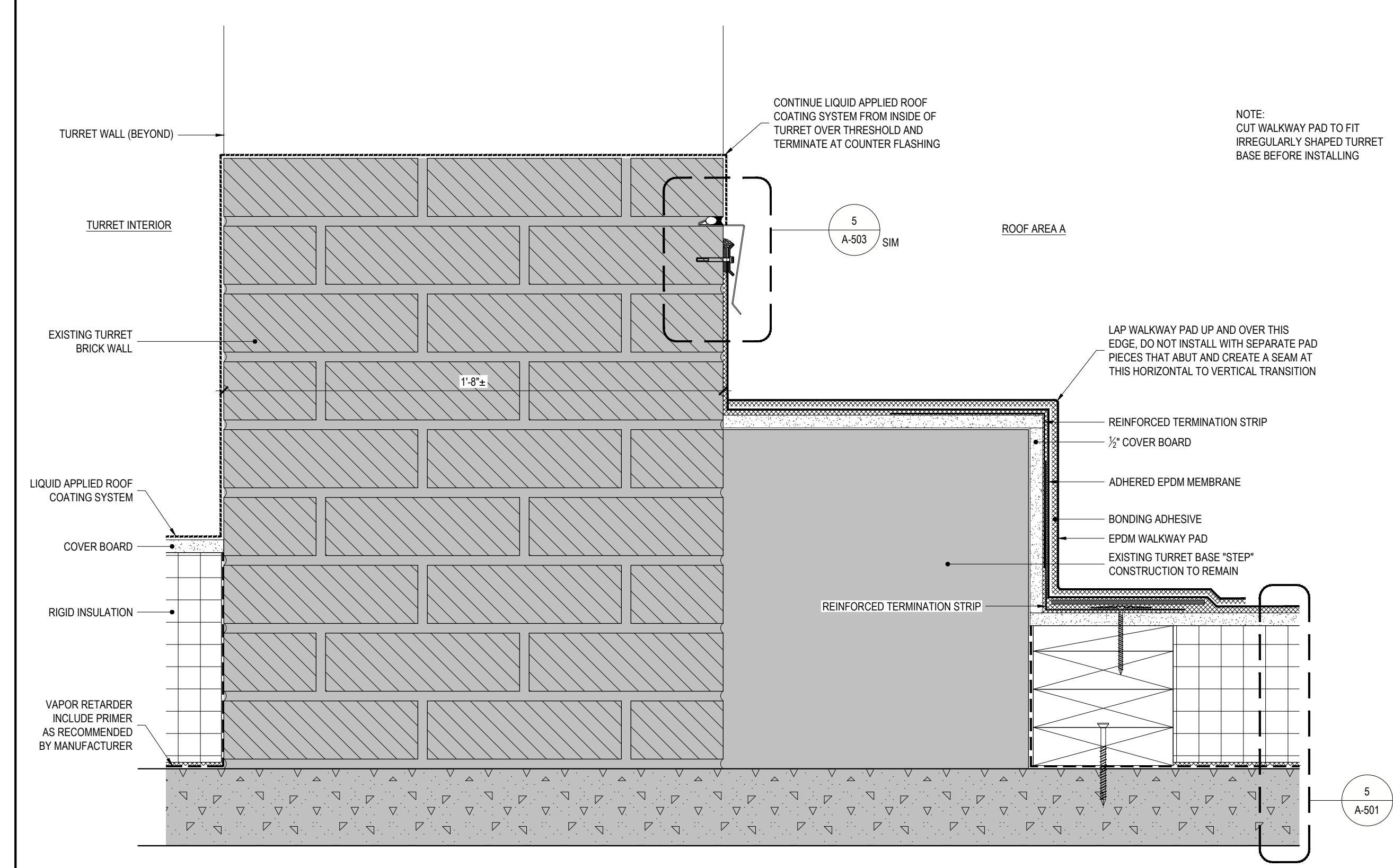
5 SKYLIGHT CURB DETAIL  
REF: 1/A-102 SCALE: 3" = 1'-0"



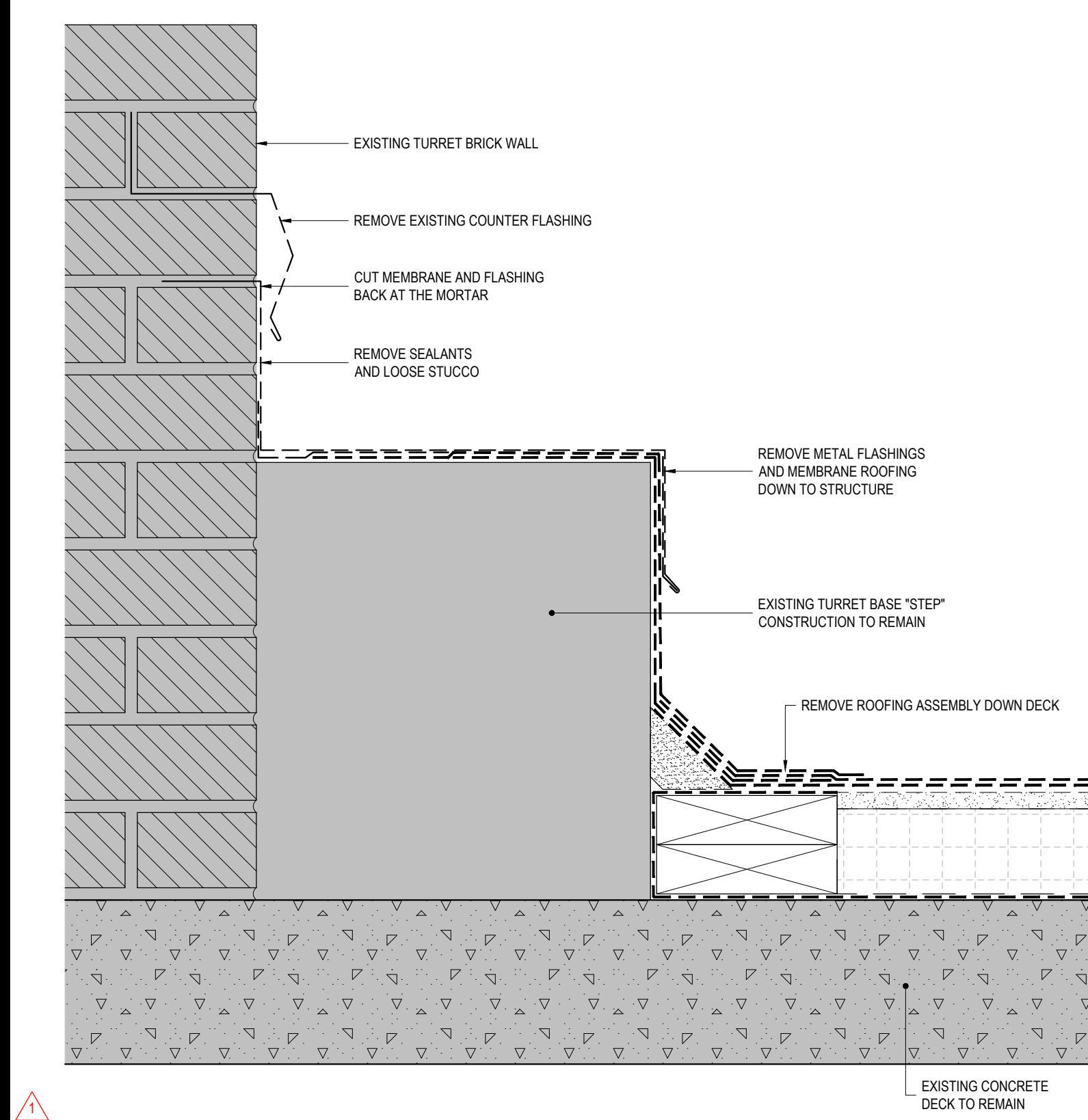
4 REMOVES AT SKYLIGHT CURB  
REF: 1/A-011 SCALE: 3" = 1'-0"



3 ROOF C.1 CHIMNEY BASE DETAIL  
REF: 3/A-102 SCALE: 3" = 1'-0"



2 ROOF A TURRET BASE DETAIL  
REF: 3/A-101 SCALE: 3" = 1'-0"



1 ROOF A TURRET BASE REMOVAL  
REF: 3/A-010 SCALE: 3" = 1'-0"

36x24 PLOT SHEET

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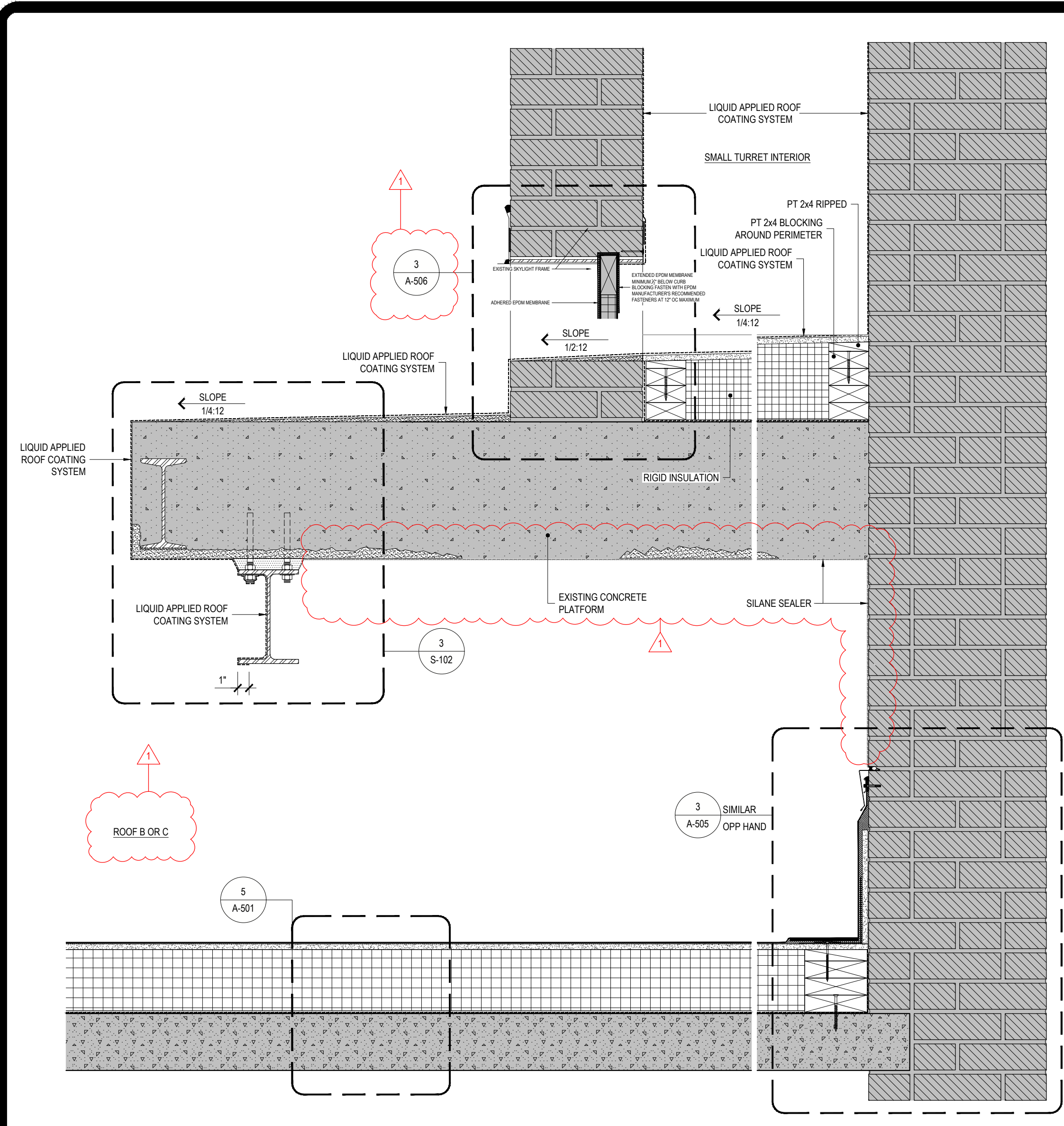
**WARNING:**  
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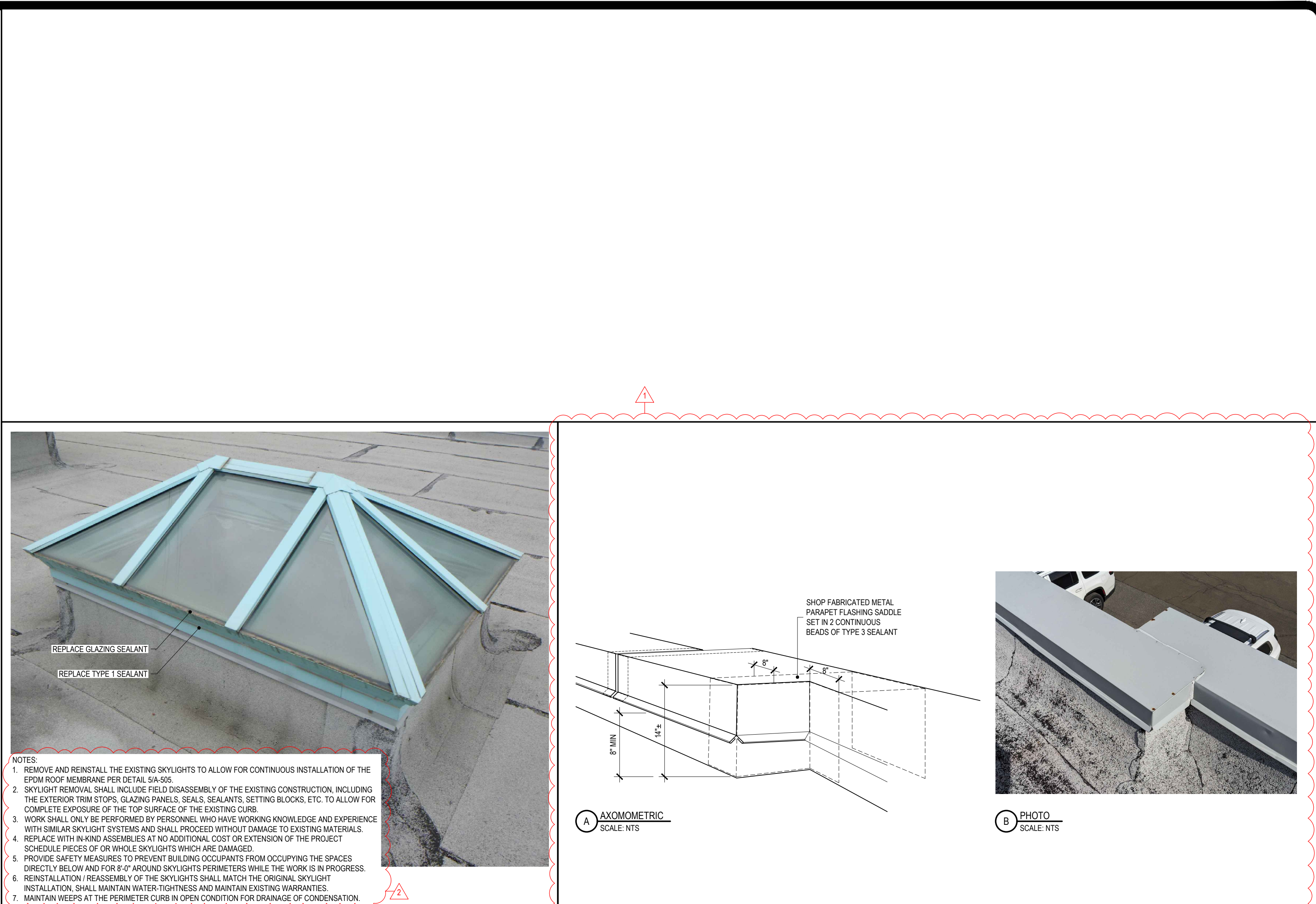
CONTRACT:  
**CONSTRUCTION**  
TITLE: REPAIR ROOF STATE ARMY  
LOCATION: BUILDING No. 71 321 MANOR ROAD STATEN ISLAND, NY  
CLIENT: DIVISION OF MILITARY AND NAVAL AFFAIRS

**REVISED DRAWING 08/26/2024**

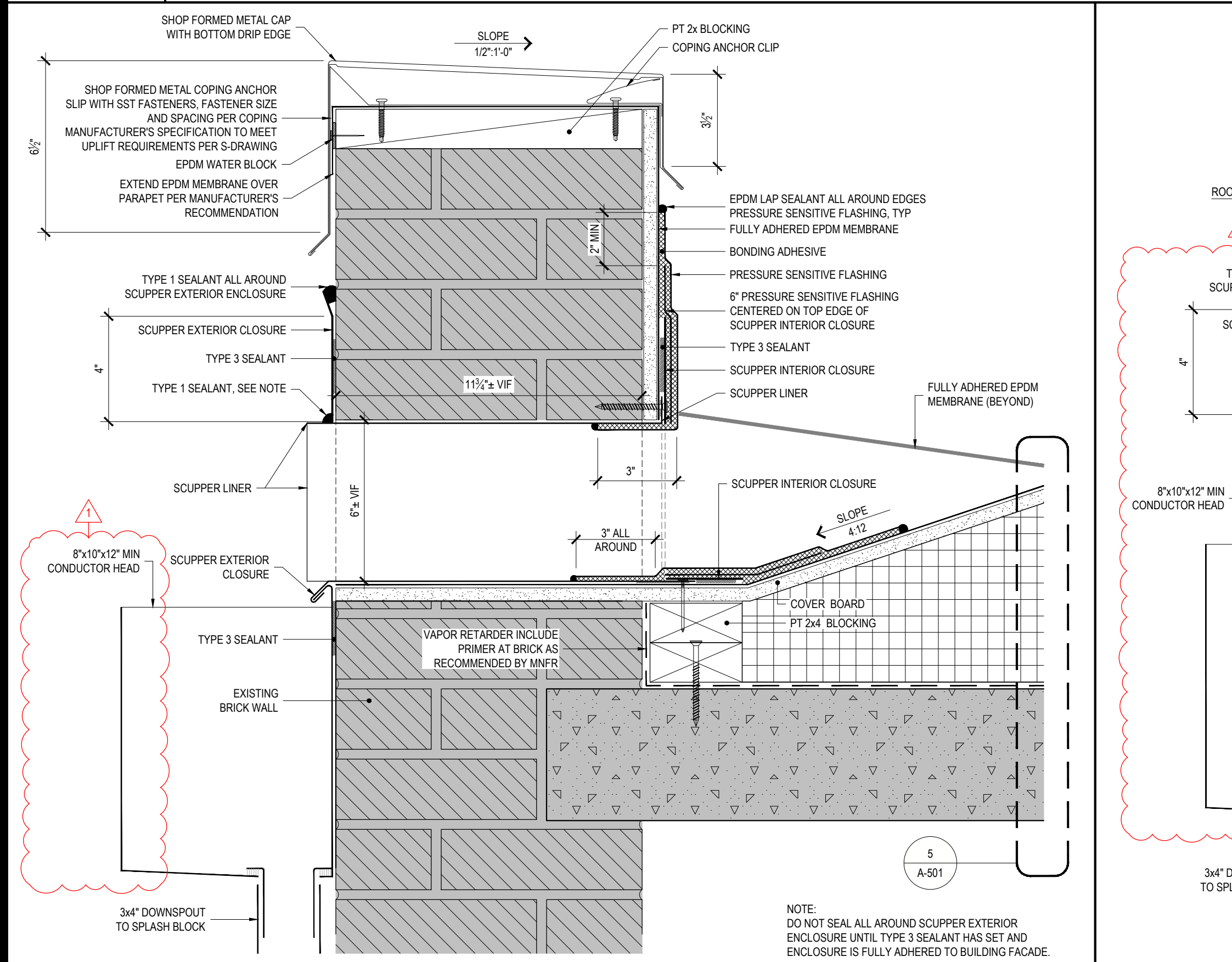
MARK	DATE	DESCRIPTION
⚠	08/26/2024	ADDENDUM 3
⚠	08/07/2024	ADDENDUM 1
	05/24/2024	BID DOCUMENT
PROJECT NUMBER:	47599 - C	
DESIGNED BY:	KK	
DRAWN BY:	SS	
FIELD CHECK:		
APPROVED:		
SHEET TITLE:	ROOF DETAILS	
DRAWING NUMBER:	A-506	
SHEET	18	OF 20



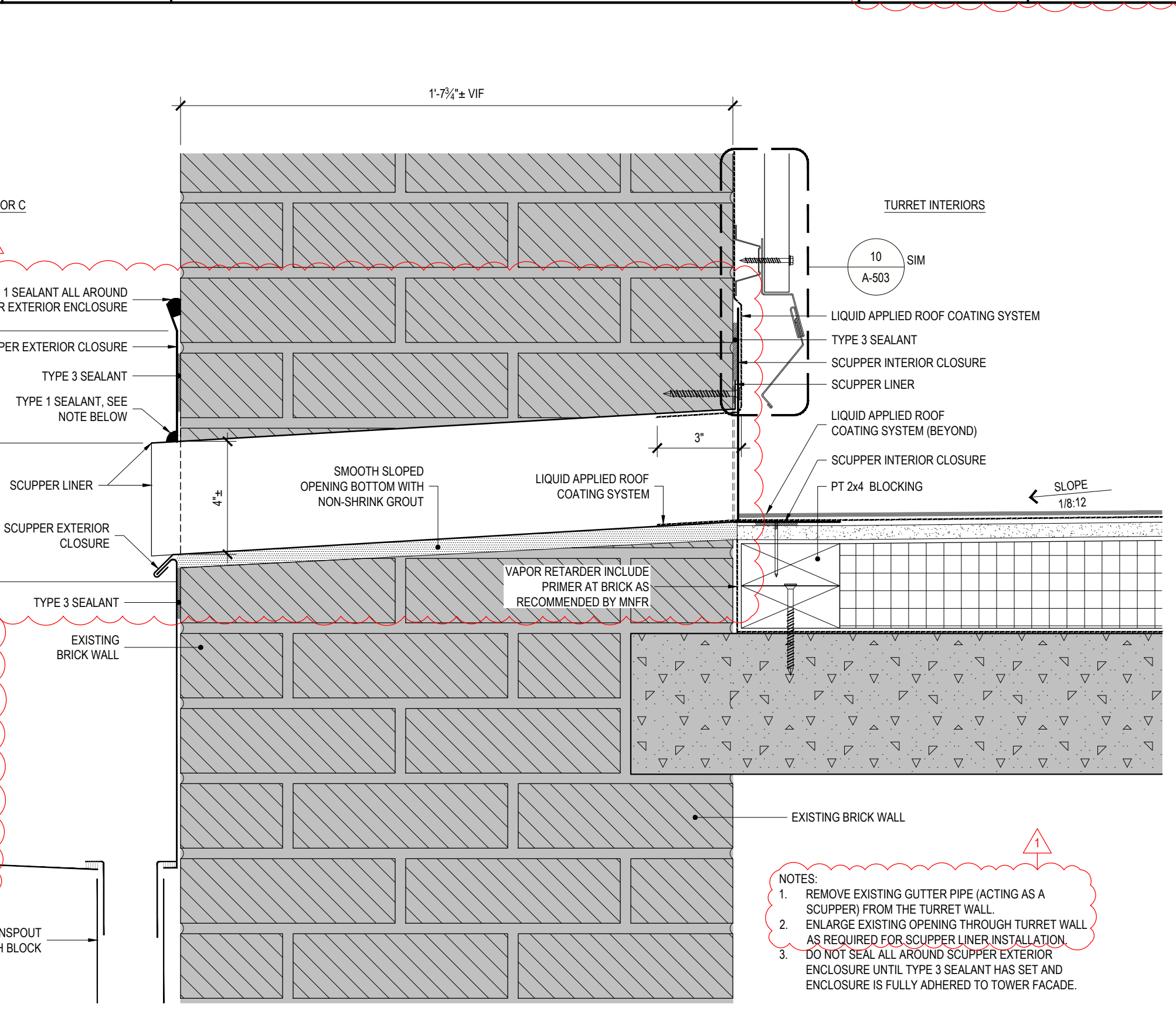
**4 SECTION AT SMALL TURRET (ROOFS B AND C.1)**  
REF: 3/A-102 SCALE: 3" = 1'-0"



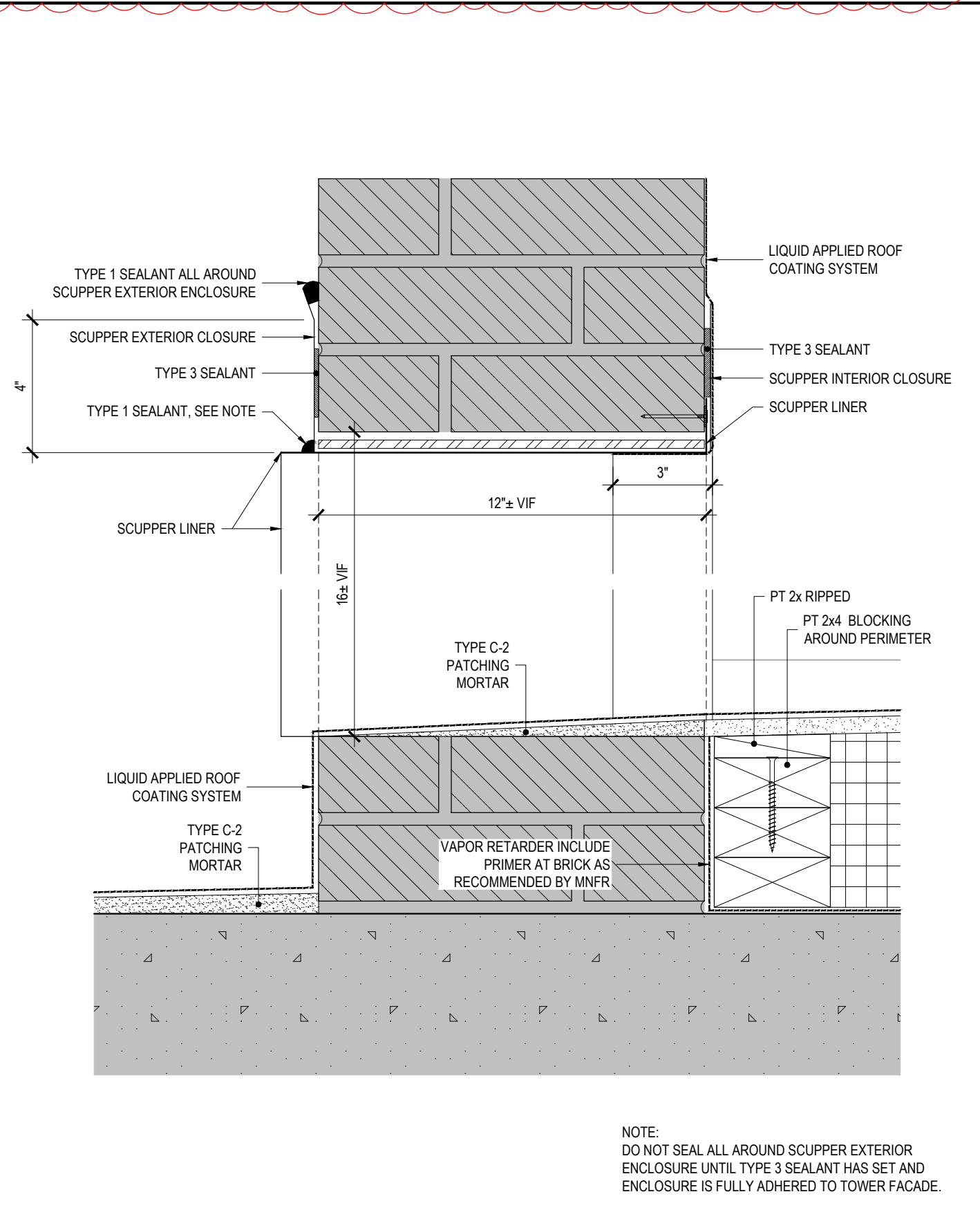
**5 TYPICAL SKYLIGHT** REF: SCALE: NTS  
**6 PARAPET JOG FLASHING** REF: SCALE: NTS



**1 ROOF AREA C.2 SCUPPER DETAIL** REF: 1/A-102 SCALE: 3" = 1'-0"  
**ALTERNATE No. 1**



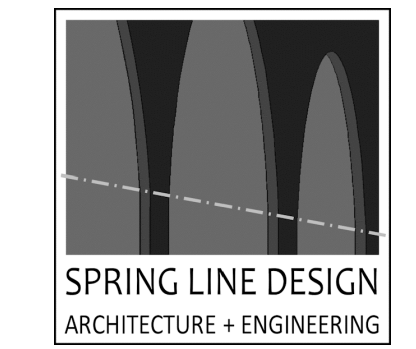
**2 ROOF AREA A TURRET SCUPPER DETAIL** REF: 3/A-101 SCALE: 3" = 1'-0"



**3 SMALL TURRET SCUPPER DETAIL** REF: 4/A-506 SCALE: 3" = 1'-0"

36x24 PLOT SHEET

CONSULTANT  
CERTIFICATE OF AUTHORIZATION No.: 0019551



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TITLE: REPAIR ROOF STATE ARMY  
LOCATION: BUILDING No. 71 321 MANOR ROAD STATEN ISLAND, NY  
CLIENT: DIVISION OF MILITARY AND NAVAL AFFAIRS

**REVISED DRAWING 08/26/2024**

MARK	DATE	DESCRIPTION
⚠	08/26/2024	ADDENDUM 3
	05/24/2024	BID DOCUMENT
PROJECT NUMBER:	47599 — C	
DESIGNED BY:	KK	
DRAWN BY:	SS	
FIELD CHECK:		
APPROVED:		
SHEET TITLE:	PHOTOS	

DRAWING NUMBER: **A-507**  
SHEET 19 OF 20



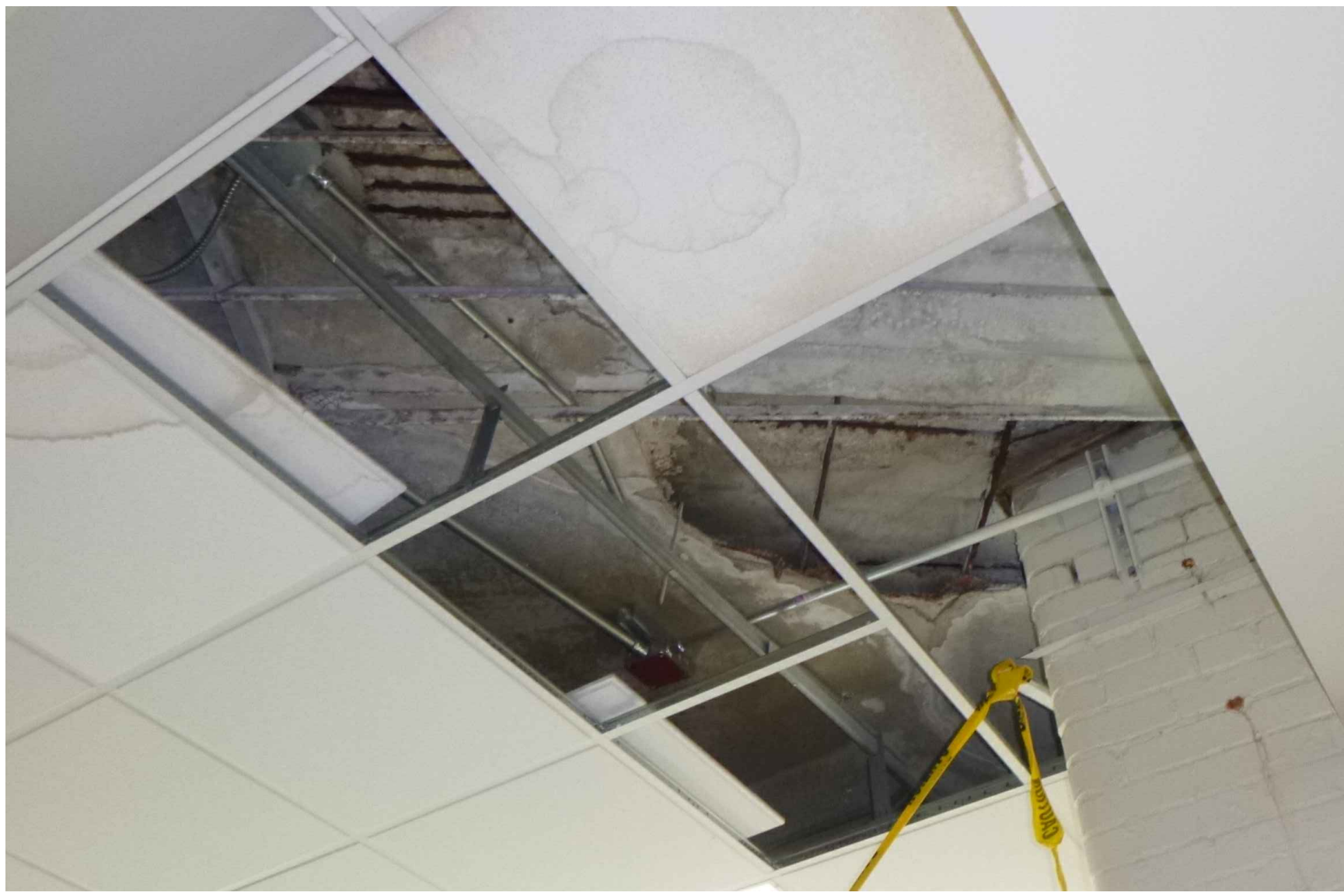
**7 ROOF C**  
REF: 1/A-001 SCALE: NTS



**8 ROOF A**  
REF: 1/A-001 SCALE: NTS



**9 ROOF B**  
REF: 1/A-001 SCALE: NTS



**4 CEILING UNDER SOUTH LARGE TURRET**  
REF: 5/S-101 SCALE: NTS



**5 CEILING UNDER NORTH LARGE TURRET**  
REF: 5/S-101 SCALE: NTS



**6 TYPICAL SMALL TURRET**  
REF: 1/A-001 SCALE: NTS



**1 ROOF A DRAINAGE & FIXED LADDER FROM ROOFS A TO C**  
REF: 1/A-001 SCALE: NTS

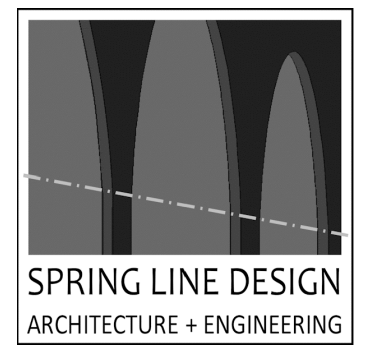


**2 TYPICAL DRAINAGE FROM LARGE TURRET**  
REF: 1/A-507 SCALE: NTS



**3 EXISTING FIXED LADDER**  
REF: 1/A-507 SCALE: NTS

CONSULTANT  
CERTIFICATE OF AUTHORIZATION No.: 0019551



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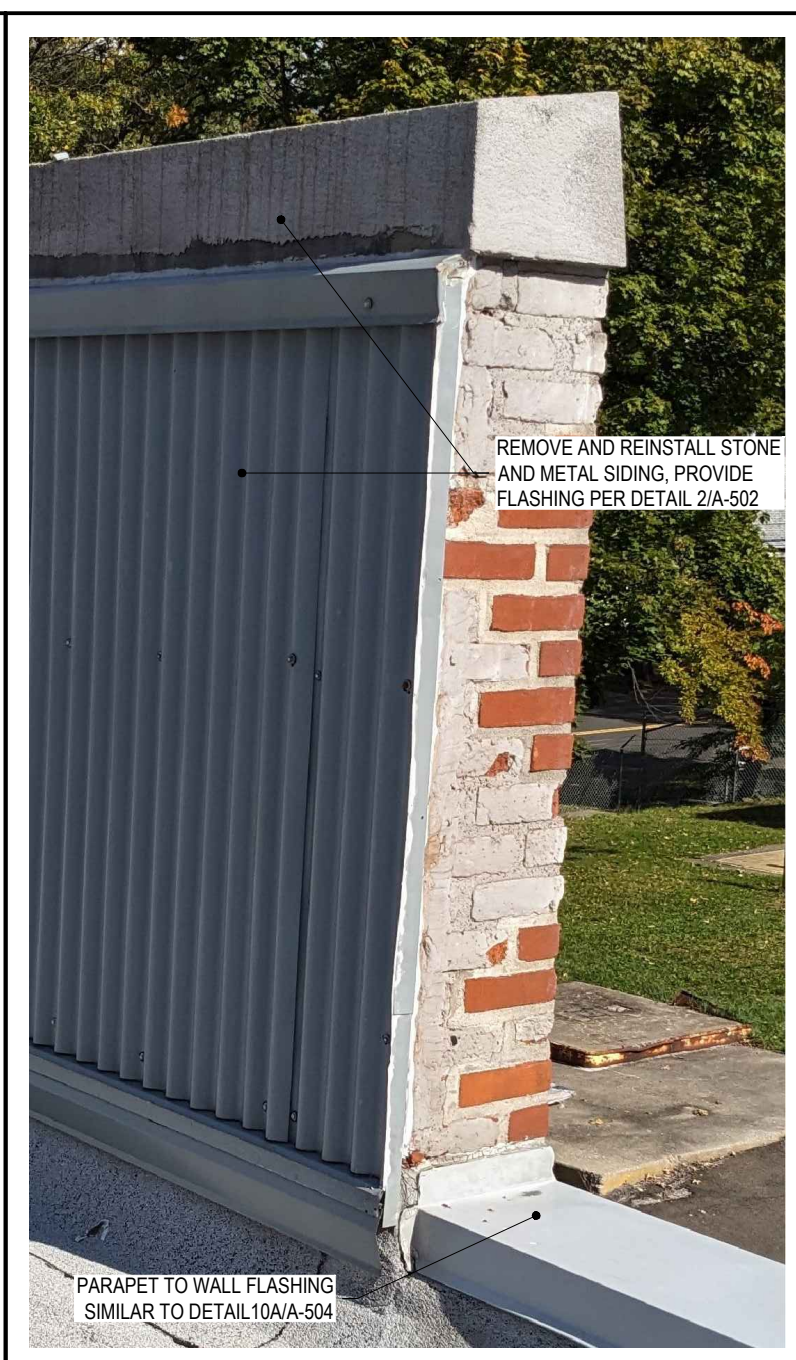
**CONSTRUCTION**  
TITLE: REPAIR ROOF STATE ARMYORY  
LOCATION: BUILDING No. 71 321 MANOR ROAD STATEN ISLAND, NY  
CLIENT: DIVISION OF MILITARY AND NAVAL AFFAIRS

**REVISED DRAWING 08/26/2024**

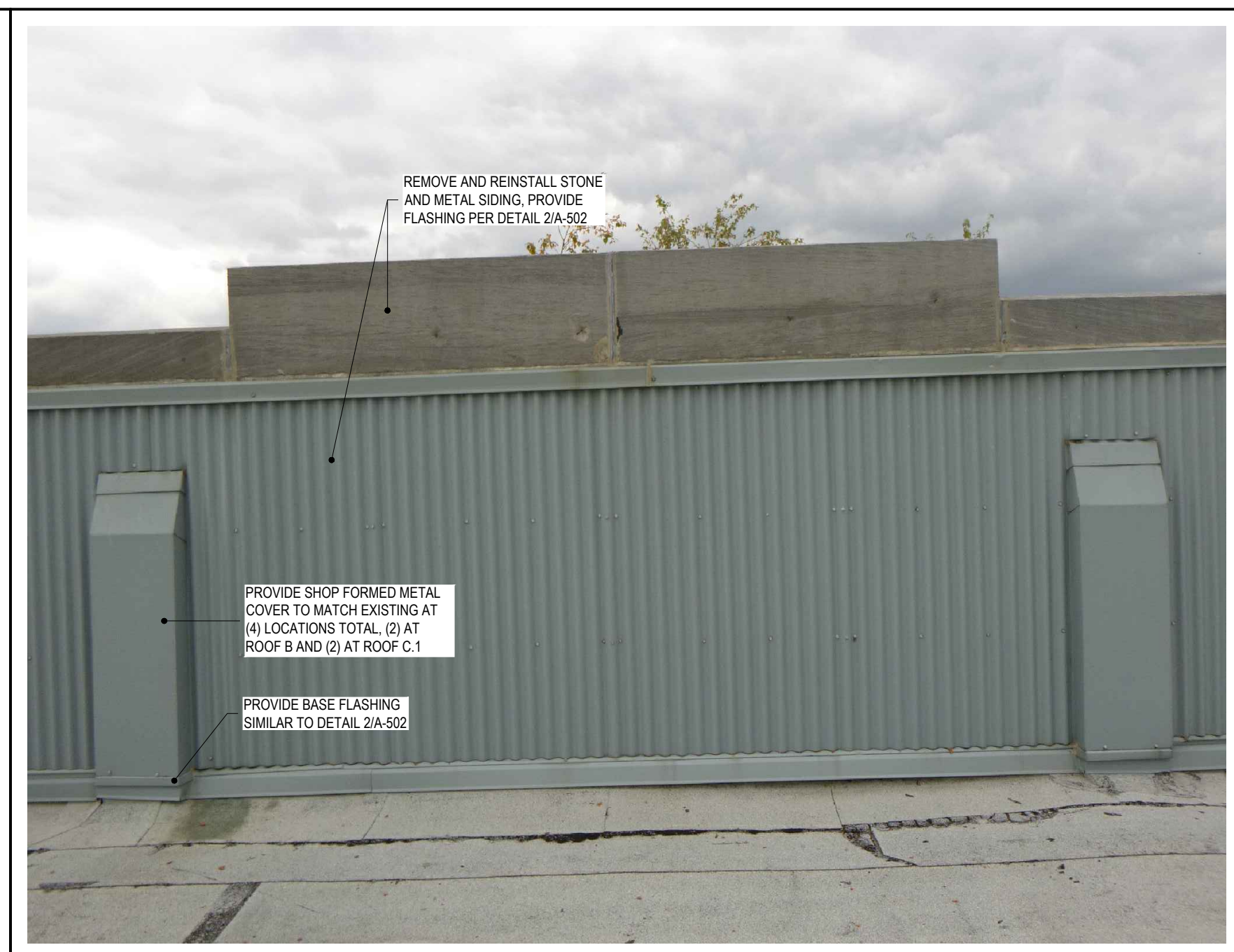
MARK	DATE	DESCRIPTION
▲	08/26/2024	ADDENDUM 3
▲	05/24/2024	BID DOCUMENT
PROJECT NUMBER: 47599 - C		
DESIGNED BY: KK		
DRAWN BY: SS		
FIELD CHECK:		
APPROVED:		
SHEET TITLE: PHOTOS		
DRAWING NUMBER: A-508		



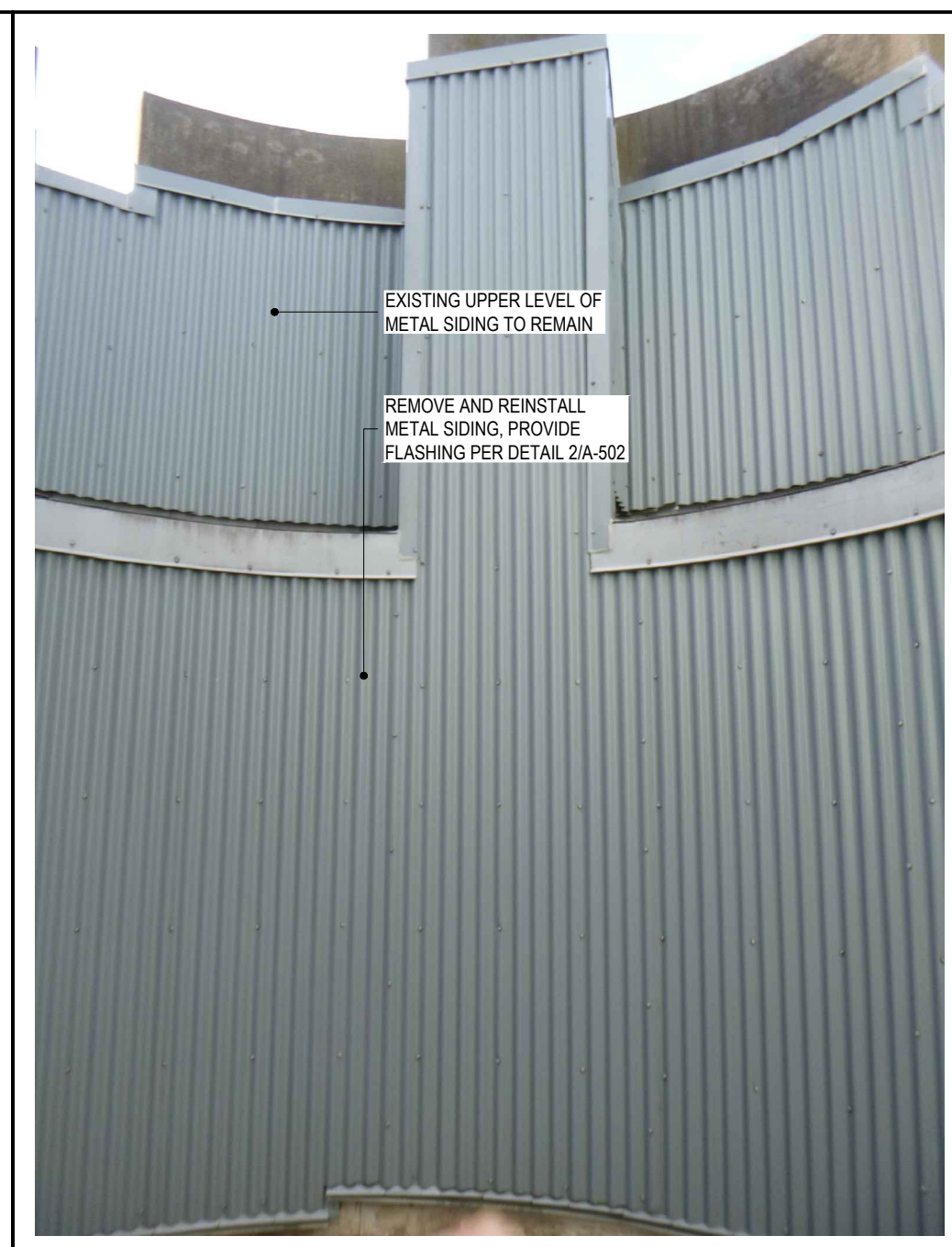
**9 MOUNTED EQUIPMENT**  
REF: SCALE: NTS



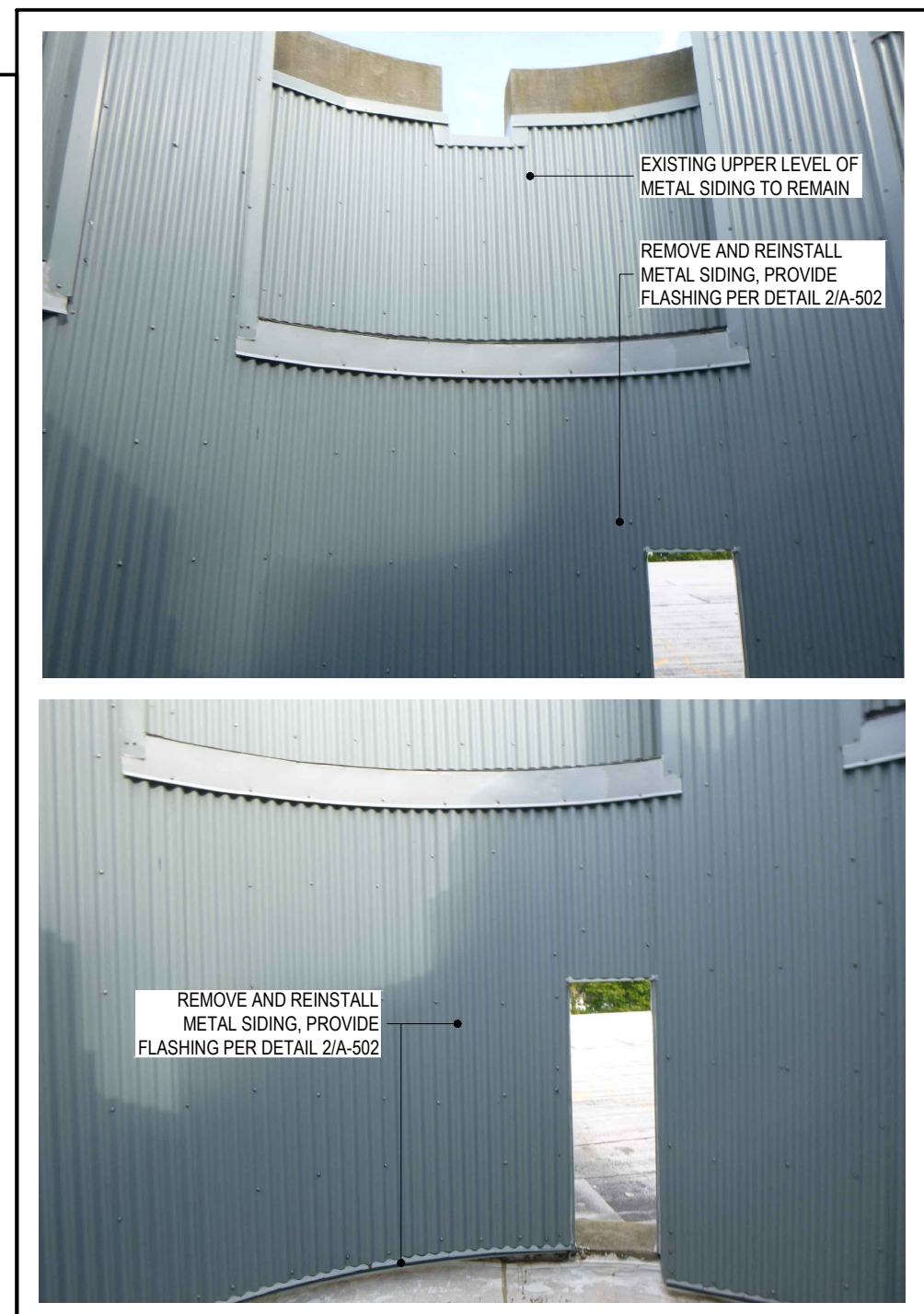
**10 PARAPET STEP**  
REF: 1/A-001 SCALE: NTS



**11 PARAPET SUPPORTS**  
REF: 1/A-001 SCALE: NTS



**12 LARGE TURRET INTERIOR**  
REF: SCALE: NTS



**13 LARGE TURRET INTERIOR**  
REF: SCALE: NTS



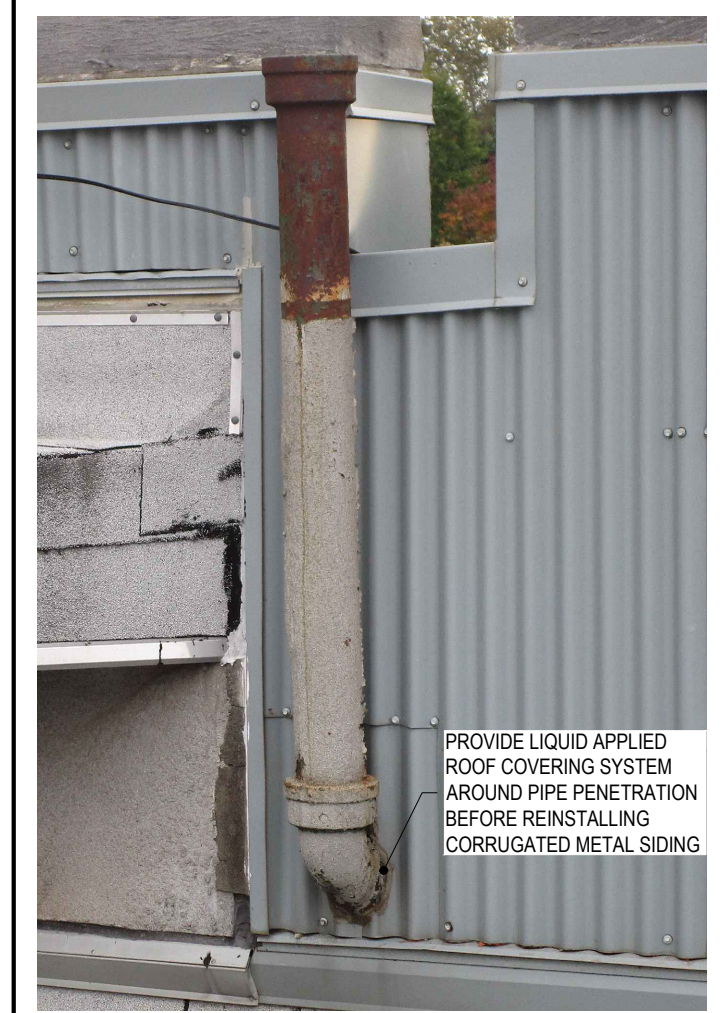
**4 VIEW FROM OPEN TOP OF SMALL TURRET**  
REF: SCALE: NTS



**5 SMALL TURRET SCUPPER LOCATION**  
REF: SCALE: NTS



**6 SMALL TURRET SCUPPER**  
REF: 5/A-508 SCALE: NTS



**7 PIPE PENETRATION**  
REF: SCALE: NTS



**8 CRENEL FLASHING**  
REF: SCALE: NTS



**1 CHIMNEY BASE ROOF C.2**  
REF: 1/A-102 SCALE: NTS



**2 CHIMNEY BASE ROOF C.1**  
REF: 1/A-102 SCALE: NTS



**3 CHIMNEY BASE ROOF C.1**  
REF: 1/A-001 SCALE: NTS

**ALTERNATE No. 1**