Addendum #4

Directorate of Facilities Engineering

This Addendum modifies, amends, and supplements designated parts of the Contract Documents, Specifications and Drawings for:

<u>Waterville Armory Roof Repair Project, 74 Drummond Road, Waterville, Maine, DFE Project</u> Number 23SR23-406-D, BGS Project Number 3625, Bid Number 23-028.

It shall be the responsibility of the Contractor to notify all Subcontractors and Suppliers for various portions of the work of any changes or modifications contained in this Addendum.

Clarification Items:

1. Bid Opening Date remains <u>18 May 2023 at 2:30 p.m.</u> Please ensure that your bids are dropped off before 2:30 p.m. Any questions contact <u>Sara Thompson at 207-430-5223</u>.

Specification Items:

1. None.

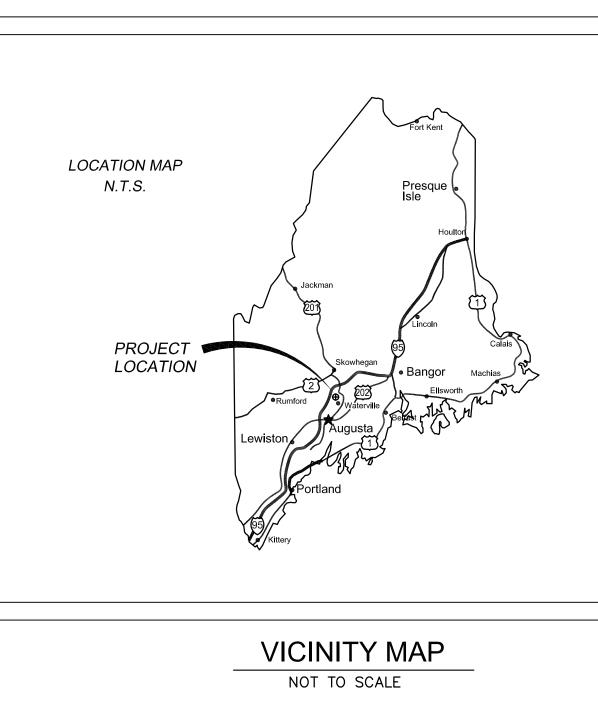
Drawing Items:

- 1. Replace Drawing Sheet G-001 Cover Sheet, with revised Drawings Sheet G-001 Cover Sheet. Added new Drawing Sheet S502 Structural Sections, And Details.
- 2. Replace Drawing Sheet S-101 Existing Roof Framing Reinforcement Plan, with revised Drawings Sheet S-101 Existing Roof Framing Reinforcement Plan.
- 3. Replace Drawing Sheet S-102 Existing Roof Framing Reinforcement Plan, Structural Notes, with revised Drawings Sheet S-102 Existing Roof Framing Reinforcement Plan, Structural Notes.
- 4. Replace Drawing Sheet S-501 Structural Notes, Sections, And Details, with revised Drawings Sheet S-501 Structural Notes, Sections, And Details.
- 5. Add Drawing Sheet S-502 Structural Notes, Sections, And Details.
- 6. Replace Drawing Sheet R-101 Existing Roof Plan, with revised Drawings Sheet R-101 Existing Roof Plan.
- 7. Replace Drawing Sheet R-102 Existing Tapered Insulation Plan, with new revised Drawings Sheet R-102 Existing Tapered Insulation Plan.
- 8. Replace Drawing Sheet R-103 Proposed New Roof Plan, with new revised Drawings Sheet R-103 Proposed New Roof Plan.

- 9. Replace Drawing Sheet R-501 Roofing Sections And Details, with revised Drawings R-501 – Roofing Sections And Details.
- 10. Replace Drawing Sheet R-502 Roofing Sections And Details, with revised Drawings R-502 – Roofing Sections And Details.
- 11. Replace Drawing Sheet R-503 Roofing Elevations And Sections, with revised Drawings R-503 Roofing Elevations And Sections.

MAINE ARMY NATIONAL GUARD ROOF REPAIR PROJECT AT WATERVILLE ARMORY WATERVILLE, MAINE PREPARED BY:

LINCOLN/HANEY ENGINEERING ASSOCIATES, INC. For Director of Facilities Engineering Project No. 23SR23-406D



DRAWING SCHEDULE

G-001 - COVER SHEET S101 - EXISTING ROOF FRAMING REINFORCEMENT PLAN S102 - EXISTING ROOF FRAMING REINFORCEMENT PLAN (ABI #1 - #5 AT AREAS 6,7,8,9, &10) STRUCTURAL NOTES S501 - STRUCTURAL SECTIONS, AND DETAILS S502 - STRUCTURAL SECTIONS, AND DETAIL _____ **R101 - EXISTING ROOF PLAN** R102 - EXISTING TAPERED INSULATION PLAN R103 - PROPOSED NEW ROOF PLAN **R501 - ROOFING SECTIONS AND DETAILS R502 - ROOFING SECTIONS AND DETAILS R503 - ROOFING ELEVATIONS AND SECTIONS** AREA 7 ABI #2 AREA [·] MATCHLINE BASE BID AREA 5 BASE BID - AREA 3 AREA 11 BASE BID AREA 2 BASE BID BASE BID BASE BID AREA 12 - ABI #6 ----AREA 4 -ABI #1 THRU #5 BASE BID **KEY PLAN**

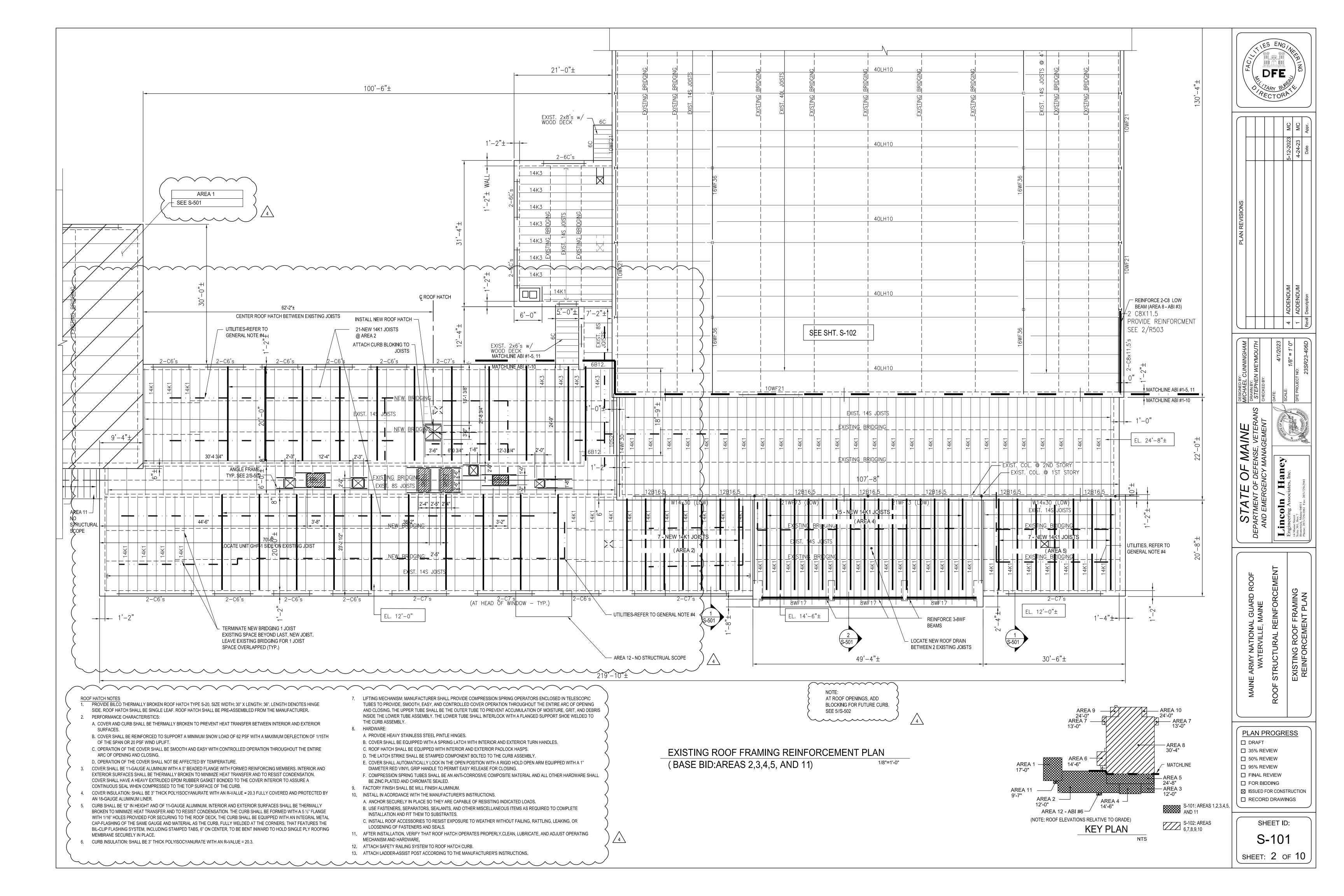
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SITE LOCATION NOT TO SCALE

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					5-12-2023	4-24-23	Date	
PLAN REVISIONS					4 ADDENDUM	1 ADDENDUM	Rev# Description	
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DESIGNED BY: MICHAEL CLINNINGHAM	DRAWN BY STEPHEN MEYMOLITH	CHECKED BY:	0 TT.	4/1/2023	scale: N	DFE PROJECT NO:	23SR23-406D	
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STRUCTURAL NOTES DESIGN LOADS

GROUND SNOW LOAD	80 PSF
THERMAL COEFFICIENT	1.0
IMPORTANCE FACTOR	1.2
EXPOSURE COEFFICIENT:	
a. LOW ROOF AREAS	1.0
b. HIGH ROOF AREAS	0.9
ROOF DESIGN SNOW LOAD:	
c. HIGH ROOF AREAS	60 PSF

d. LOW ROOF AREAS WITHOUT DRIFT 67 PSF MAX.

GENERAL NOTES

SNOW DRIFTING PER ASCE 7-10

- 1. THESE NOTES PERTAIN TO THE CONSTRUCTION REQUIREMENTS AT THE WORK AREA SHOWN FOR NEW JOIST INSTALLATION AND ROOF DECK REPLACEMENT.
- 2. DIMENSIONS FOR EXISTING CONDITIONS ARE APPROXIMATE, PROVIDED FOR PRICING. FIELD MEASUREMENTS
- ARE REQUIRED PRIOR TO FABRICATION OF ITEMS TO BE INSTALLED. 3. THE CONTRACTOR SHALL SURVEY THE AREA TO LOCATE ANY OBSTRUCTIONS TO THE SPECIFIED INSTALLATIONS. LOCATIONS OF ANY ITEMS IDENTIFIED ON THE DRAWINGS IS APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ALL INCIDENTAL CONSTRUCTION REQUIRED TO COMPLETE THE INSTALLATION OF JOISTS, DECK, INSULATION, AND ROOFING.
- A. THE EXISTING SUSPENDED CEILING IS INTENDED TO REMAIN IN PLACE DURING THE CONSTRUCTION PERIOD.
- B. LIGHT FIXTURES LOCATED IN THE EXISTING SUSPENDED CEILING AND WIRING SUSPENDED DIRECTLY ABOVE THAT CEILING IS NOT SCHEDULED FOR REMOVAL DURING CONSTRUCTION AND IS NOT SHOWN ON DRAWINGS.
- C. ANY EXISTING WIRING RUNNING THROUGH EXISTING JOISTS THAT SHALL REMAIN IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING NEW JOISTS WITHOUT DISRUPTION OF ELECTRICAL WIRING. ANY WIRING DAMAGED DURING JOIST INSTALLATION SHALL BE REPLACED AT NO COST TO THE OWNER.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TEMPORARY PROTECTION FOR EXISTING CONSTRUCTION THROUGHOUT THE CONSTRUCTION PERIOD. ITEMS DAMAGED FROM CONSTRUCTION ACTIVITIES, WEATHER, OR FROM HANDLING IN REMOVAL, STORAGE, AND REINSTALLATION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER. REPLACEMENT ITEMS SHALL BE IDENTICAL OR SIMILAR PRODUCTS OF EQUAL QUALITY
- REMOVE ONLY AS MUCH ROOFING AS CAN BE REPLACED AT THE END OF EACH WORKDAY. THE ROOF SHALL BE WATERTIGHT BEFORE LEAVING THE SITE AT THE END OF THE DAY. THE CONTRACTOR WILL BE RESPONSIBLE FOR MONITORING THE WEATHER CONDITIONS DURING EACH WORKDAY TO AVOID DAMAGE FROM INCLEMENT WEATHER. ANY DAMAGE TO THE BUILDING INTERIOR THAT OCCURS DUE TO INADEQUATE PROTECTION SHALL BE REPAIRED AT NO COST TO THE OWNER.
- 6. REFER TO EXISTING ROOF PLAN ON R101 FOR EXISTING MATERIALS REQUIRING REMOVAL. 7. THE BUILDING WILL BE OCCUPIED FOR THE DURATION OF THE PROJECT. COORDINATE ALL CONSTRUCTION
- ACTIVITIES W/ THE OWNER TO AVOID INTERFERENCE W/ THE OWNERS OPERATIONS. 8. ALL ROOF AREAS SHALL BE SECURED W/ WEATHER PROTECTION PRIOR TO THE CONTRACTOR LEAVING THE SITE FOR THE DAY.
- 9. THE CONTRACTOR EACH DAY SHALL NOTIFY THE FIRE ALARM MONITORING COMPANY, AND PLACE FIRE ALARM PANEL IN TEST MODE DURING THE CONSTRUCTION PERIOD FOR THE DAY. THE CONTRACTOR SHALL NOTIFY THE FIRE ALARM MONITORING COMPANY AND TAKE THE FIRE ALARM PANEL OUT OF TEST MODE AT THE END OF THE CONSTRUCTION PERIOD EACH DAY.
- 10. IN AREA WHERE THE ROOF DECK IS REMOVED, DURING CONSTRUCTION THE CONTRACTOR MUST PLACE PROTECTIVE COVERING OVER FIRE ALARM DEVICES.
- 11. THE CONTRACTOR MAY NOT LEAVE THE ENTIRE BUILDING WITHOUT FIRE PROTECTION OF THE SPRINKLER SYSTEM. 12. THE CONTRACTOR MAY NOT LEAVE THE ENTIRE BUILDING WITHOUT FIRE ALARM MONITORING SYSTEM
- PROTECTION. 13. THE OWNER AND THE OWNER'S CONSULTANT WILL DETERMINE WHAT AREAS MAY BE WITHOUT FIRE ALARM
- MONITORING PROTECTION AND OR SPRINKLER SYSTEM PROTECTION FOR A SHORT DURATION. 14. AT NO TIME WILL BOTH SYSTEMS BE ALLOWED TO BE TURNED OFF IN THE CONSTRUCTION AREAS. THE CONSTRUCTION AREAS CANNOT BE WITHOUT THE FIRE ALARM MONITORING SYSTEM AND OR AT LEAST A WORKING SPRINKLER SYSTEM. BOTH THE FIRE ALARM MONITORING SYSTEM AND THE SPRINKLER SYSTEM WILL
- BE ACTIVE DURING WEEKENDS. 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, WEDGING, CUTTING AND PATCHING REQUIRED FOR THE COMPLETION OF ALL PHASES OF THE WORK.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY REMOVAL OF JOIST BRIDGING, ELECTRICAL CONDUIT, DUCTS, PIPING, CEILINGS, ETC. AS REQUIRED TO INSTALL NEW STEEL JOISTS AND FOR THE RE-INSTALLATION OF ALL SUCH ITEMS AFTER ALL NEW STEEL JOISTS AND ANY NEW METAL DECKING ARE IN PLACE.
- 17. COMPLETELY PROTECT NEARBY COMBUSTIBLE MATERIALS WITH FIRE PROOF BLANKETS PRIOR TO ANY FIELD WELDING NEW JOISTS TO STEEL SUPPORTING BEAMS. PROVIDE A MINIMUM OF TWO FIRE EXTINGUISHERS ON SITE DURING FIELD WELDING OPERATIONS. COMPLETE ALL FIELD WELDING AT LEAST TWO HOURS PRIOR TO THE END OF THE WORKDAY. PRIOR TO LEAVING THE JOBSITE ON DAYS WHEN WELDING HAS OCCURRED, INSPECT THE SITE TO ENSURE THAT THERE ARE NO SMOLDERING FIRES.
- 18. ALL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE FABRICATION. FABRICATION OF ANY ITEMS PRIOR TO FINAL REVIEW OF SHOP DRAWINGS WILL BE ENTIRELY AT THE RISK OF THE CONTRACTOR.

STEEL JOISTS

- NEW STEEL JOISTS SHALL RECEIVE A SHOP COAT OF ALKYD PRIMER. PRIMER PAINT FOR JOISTS THAT ARE
- EXPOSED TO VIEW SHALL CLOSELY MATCH THE COLOR OF THE EXISTING JOISTS IN THE SAME AREA. 2. NEW STEEL JOISTS SHALL HAVE 2-1/2" MINIMUM BEARING ON EXISTING STEEL BEAMS AND 4" MINIMUM BEARING
- ON EXISTING CMU. 3. WELD NEW JOISTS TO EXISTING BEAMS WITH E70XX ELECTRODES.
- 4. IT IS ANTICIPATED THAT NEW JOISTS WILL BE INSTALLED FROM ABOVE EXISTING ROOF. EXISTING METAL DECK TO BE REMOVED / REPLACED AS REQUIRED TO INSTALL NEW JOISTS. AT THE CONTRACTOR'S OPTION NEW TWO-PIECE BOLT UP JOISTS CAN BE INSTALLED FROM BELOW THE EXISTING ROOF WITHOUT REMOVAL OF THE EXISTING ROOF SURFACE WITH JOIST / DECK FASTENERS AS INDICATED IN STEEL ROOF DECK NOTE #3.
- A. ANY CEILING/ LIGHT FIXTURE REMOVAL AS WELL AS REMOVAL OF ANY OTHER OBSTRUCTIONS FOR THE ALTERNATIVE INSTALLATION SHALL BE DONE TO THE MINIMUM EXTENT REQUIRED FOR THE JOIST INSTALLATION. ALL REMOVED COMPONENTS SHALL BE REINSTALLED TO EQUAL WHAT EXISTED BEFORE REMOVAL. ANY DAMAGED COMPONENTS SHALL BE REPLACED W/ IDENTICAL PRODUCTS OR W/ EQUAL PRODUCTS APPROVED BY THE OWNER. THE COST OF ANY REPLACEMENT SHALL BE BORNE BY THE CONTRACTOR.

5. NON-SHRINK GROUT SHALL BE NUMBER 5 STAR GROUT OR EQUAL. PROVIDE MIX W/ MINIMUM 28-DAY COMPRESSIVE STRENGTH = 6500 PSI.

STEEL ROOF DECK

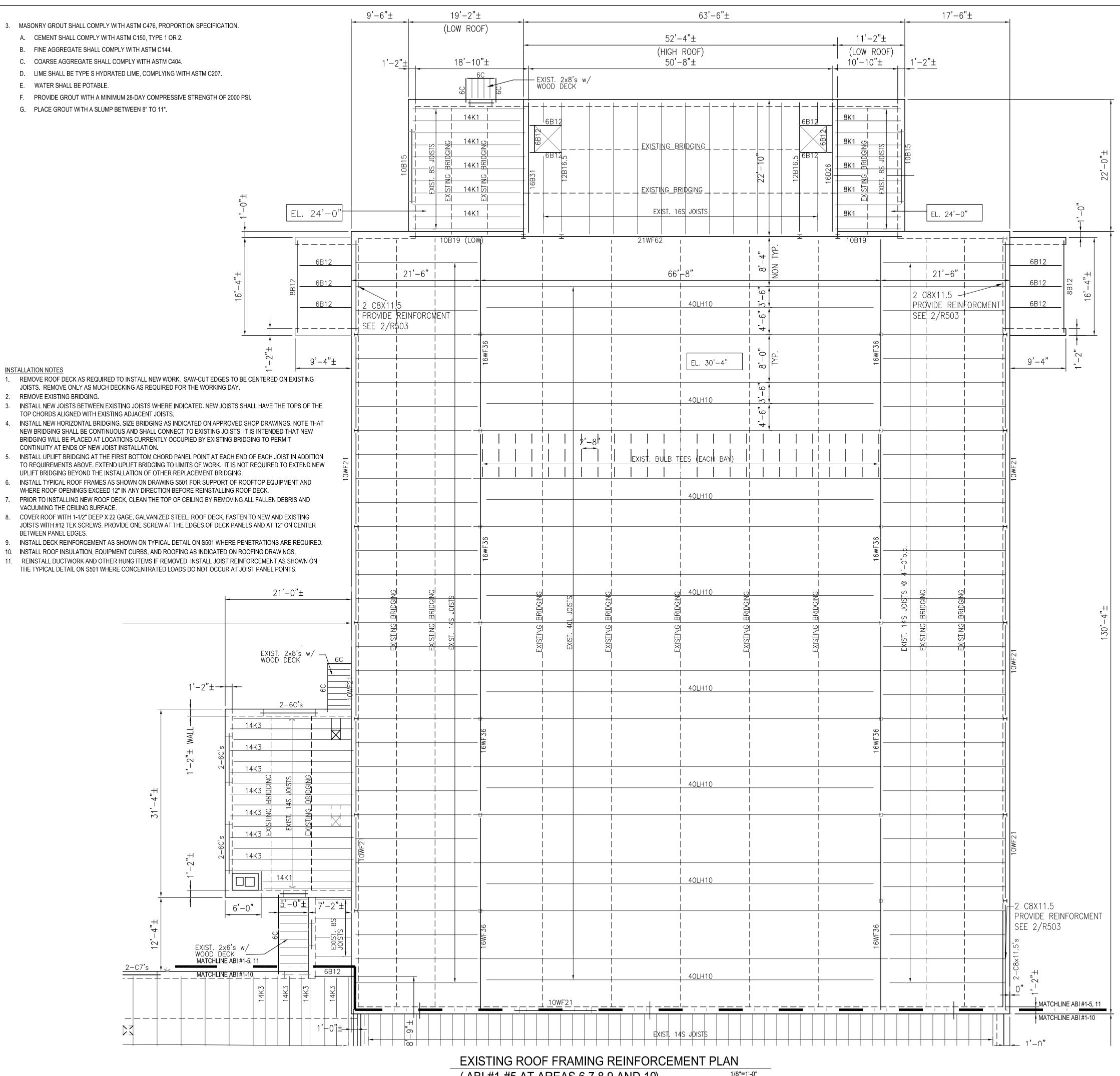
- 1. NEW METAL ROOF DECK SHALL BE 1-1/2" DEEP, TYPE B (22 GAGE)GALVANZIED.
- 2. NEW METAL ROOF DECK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE STEEL DECK INSTITUTE. 3. METAL DECK SHALL BE SCREWED TO EACH SUPPORTING STEEL MEMBER WITH #12 TEK SCREWS AT 1'-0" ON
- CENTER (MAX.) FIELD WELDING OF ROOF DECK WILL NOT BE PERMITTED. MASONRY NOTES
- 1. AT MASONRY BEARINGS, REMOVE EXISTING MASONRY AS REQUIRED TO INSTALL NEW BEARING PLATES AND JOISTS AS INDICATED. MAINTAIN INTEGRITY OF EXISTING MASONRY BY TEMPORARY MEANS UNTIL JOIST INSTALLATION IS COMPLETE. INSTALL NEW MASONRY UNITS, MORTAR, AND/OR GROUT AS REQUIRED TO RESTORE INTEGRITY OF THE MASONRY AT THE NEW BEARING SEATS.
- 2. MORTAR USED IN MORTAR JOINTS SHALL COMPLY WITH ASTM C270, PROPORTION SPECIFICATION FOR TYPE S MORTAR. MIX WITH INGREDIENTS AS FOLLOWS:
- A. PORTLAND CEMENT TYPE I, COMPLYING WITH ASTM C150.
- B. LIME TYPE S HYDRATED LIME COMPLYING WITH ASTM C207.
- C. SAND COMPLYING WITH ASTM C144.
- D. WATER POTABLE.
- E. LIMIT CEMENTITIOUS MATERIALS TO PORTLAND CEMENT-LIME. THE USE OF MASONRY CEMENT IS PROHIBITED.

- 3. MASONRY GROUT SHALL COMPLY WITH ASTM C476, PROPORTION SPECIFICATION.
- A. CEMENT SHALL COMPLY WITH ASTM C150, TYPE 1 OR 2.
- B. FINE AGGREGATE SHALL COMPLY WITH ASTM C144.
- C. COARSE AGGREGATE SHALL COMPLY WITH ASTM C404.
- D. LIME SHALL BE TYPE S HYDRATED LIME, COMPLYING WITH ASTM C207.
- E. WATER SHALL BE POTABLE.
- F. PROVIDE GROUT WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
- G. PLACE GROUT WITH A SLUMP BETWEEN 8" TO 11".

INSTALLATION NOTES

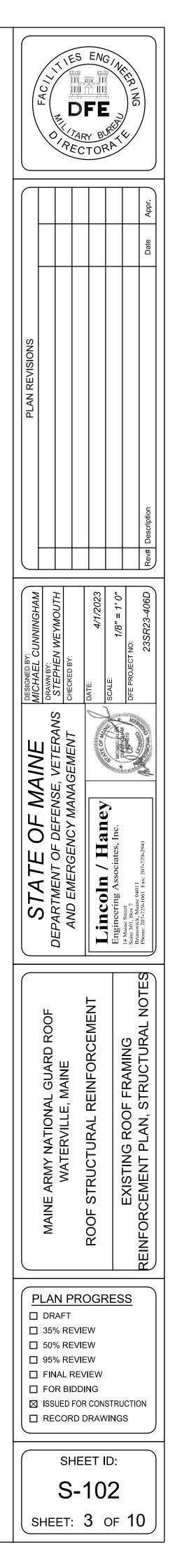
- 1. REMOVE ROOF DECK AS REQUIRED TO INSTALL NEW WORK. SAW-CUT EDGES TO BE CENTERED ON EXISTING JOISTS. REMOVE ONLY AS MUCH DECKING AS REQUIRED FOR THE WORKING DAY.
- 2. REMOVE EXISTING BRIDGING.
- TOP CHORDS ALIGNED WITH EXISTING ADJACENT JOISTS.
- BRIDGING WILL BE PLACED AT LOCATIONS CURRENTLY OCCUPIED BY EXISTING BRIDGING TO PERMIT CONTINUITY AT ENDS OF NEW JOIST INSTALLATION.
- 5. INSTALL UPLIFT BRIDGING AT THE FIRST BOTTOM CHORD PANEL POINT AT EACH END OF EACH JOIST IN ADDITION UPLIFT BRIDGING BEYOND THE INSTALLATION OF OTHER REPLACEMENT BRIDGING.
- 6. INSTALL TYPICAL ROOF FRAMES AS SHOWN ON DRAWING S501 FOR SUPPORT OF ROOFTOP EQUIPMENT AND WHERE ROOF OPENINGS EXCEED 12" IN ANY DIRECTION BEFORE REINSTALLING ROOF DECK.
- VACUUMING THE CEILING SURFACE.
- 8. COVER ROOF WITH 1-1/2" DEEP X 22 GAGE, GALVANIZED STEEL, ROOF DECK. FASTEN TO NEW AND EXISTING BETWEEN PANEL EDGES.
- 11. REINSTALL DUCTWORK AND OTHER HUNG ITEMS IF REMOVED. INSTALL JOIST REINFORCEMENT AS SHOWN ON

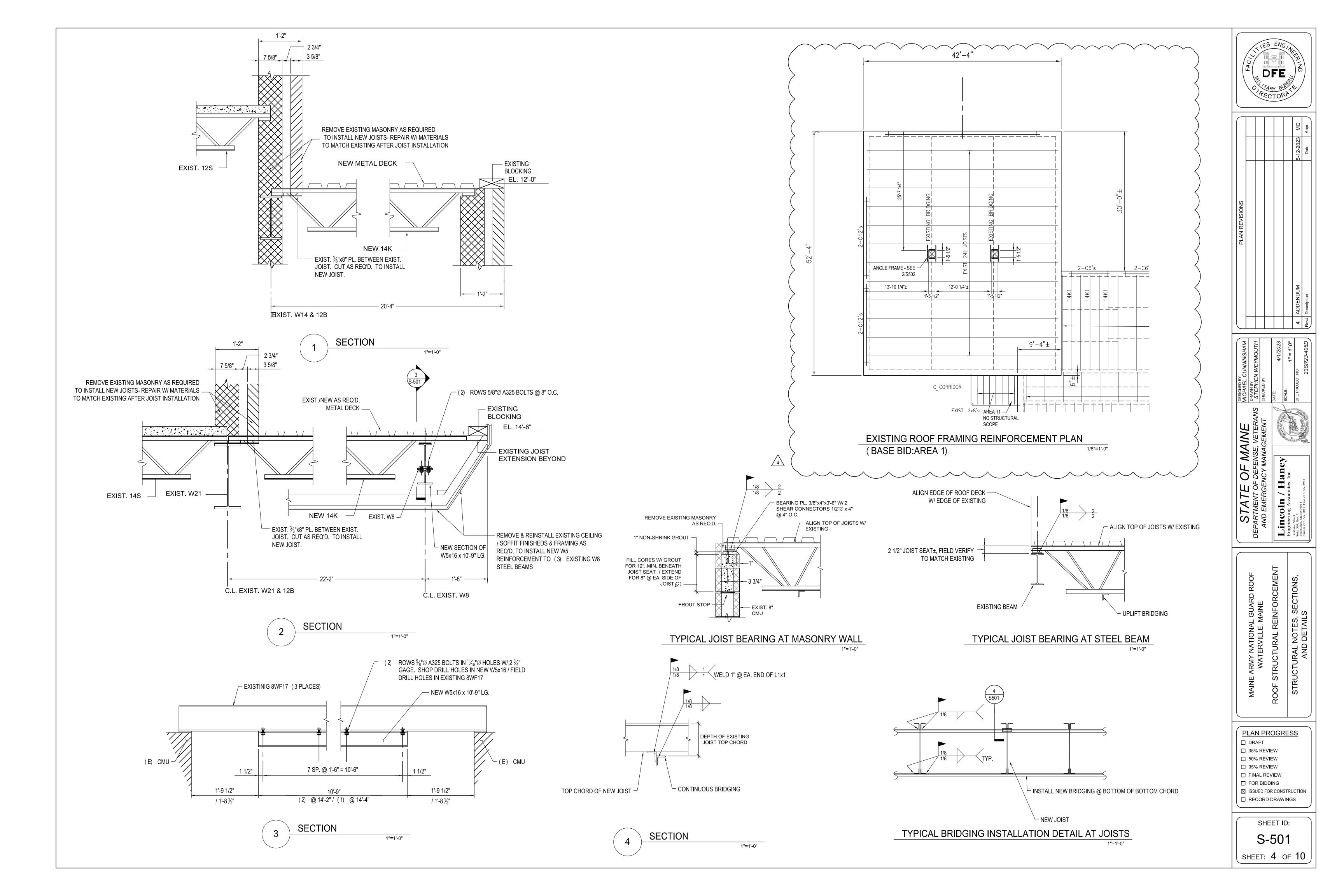
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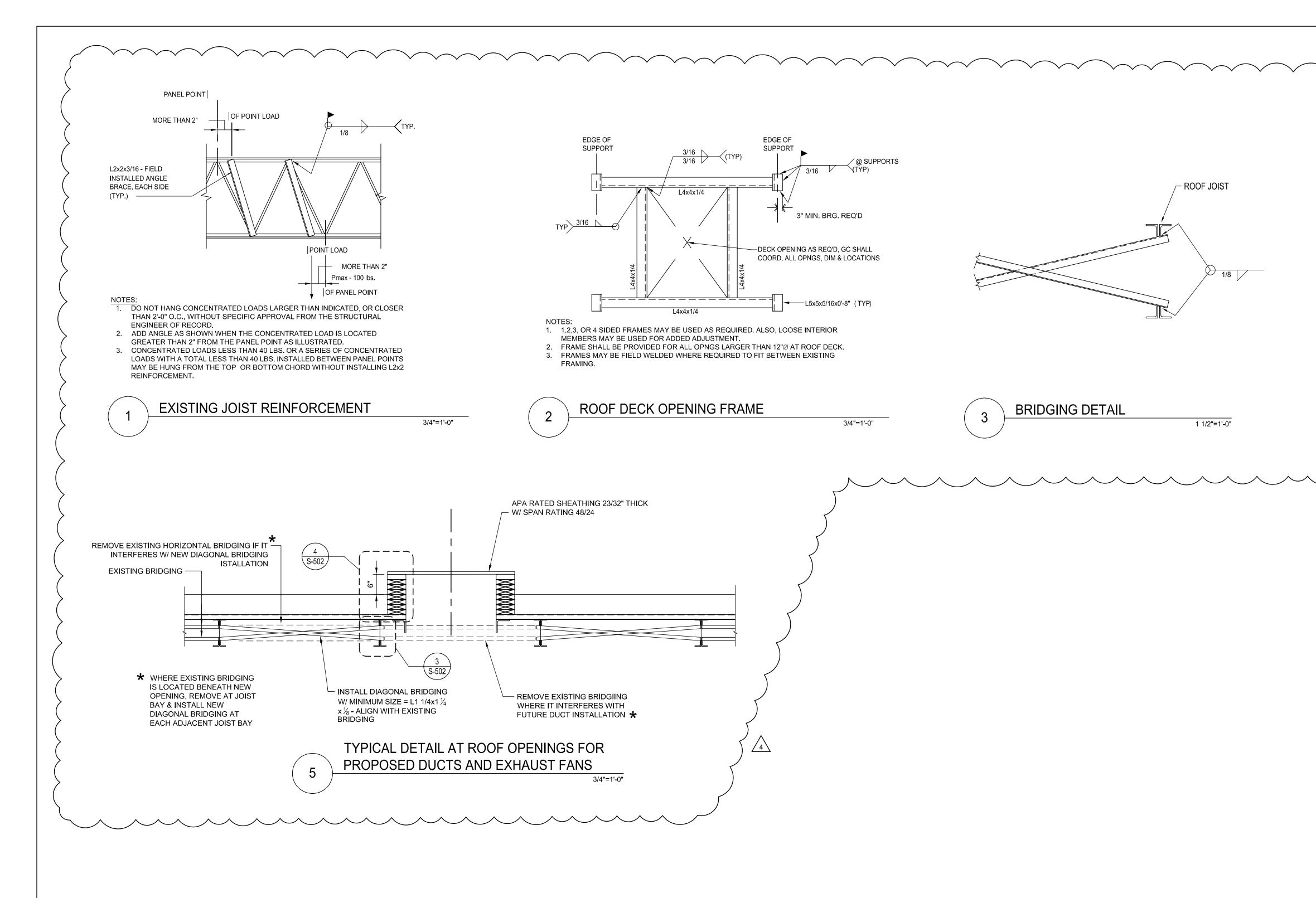


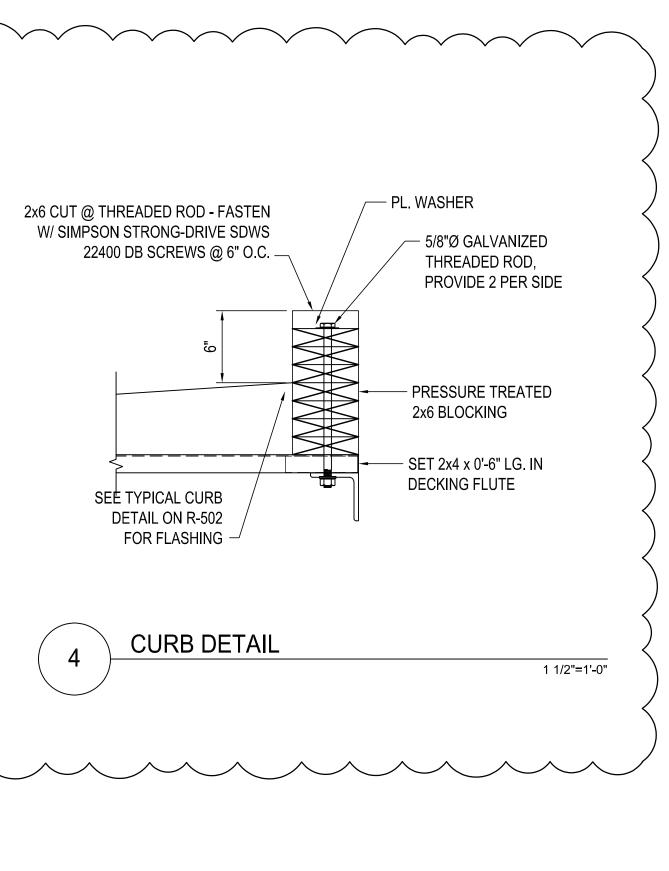
(ABI #1-#5 AT AREAS 6,7,8,9,AND 10)

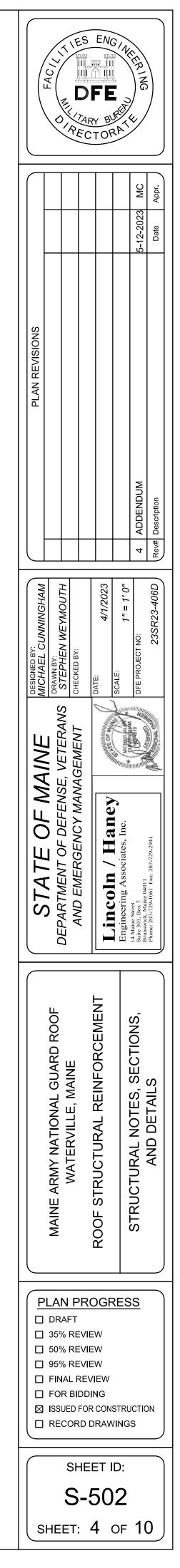
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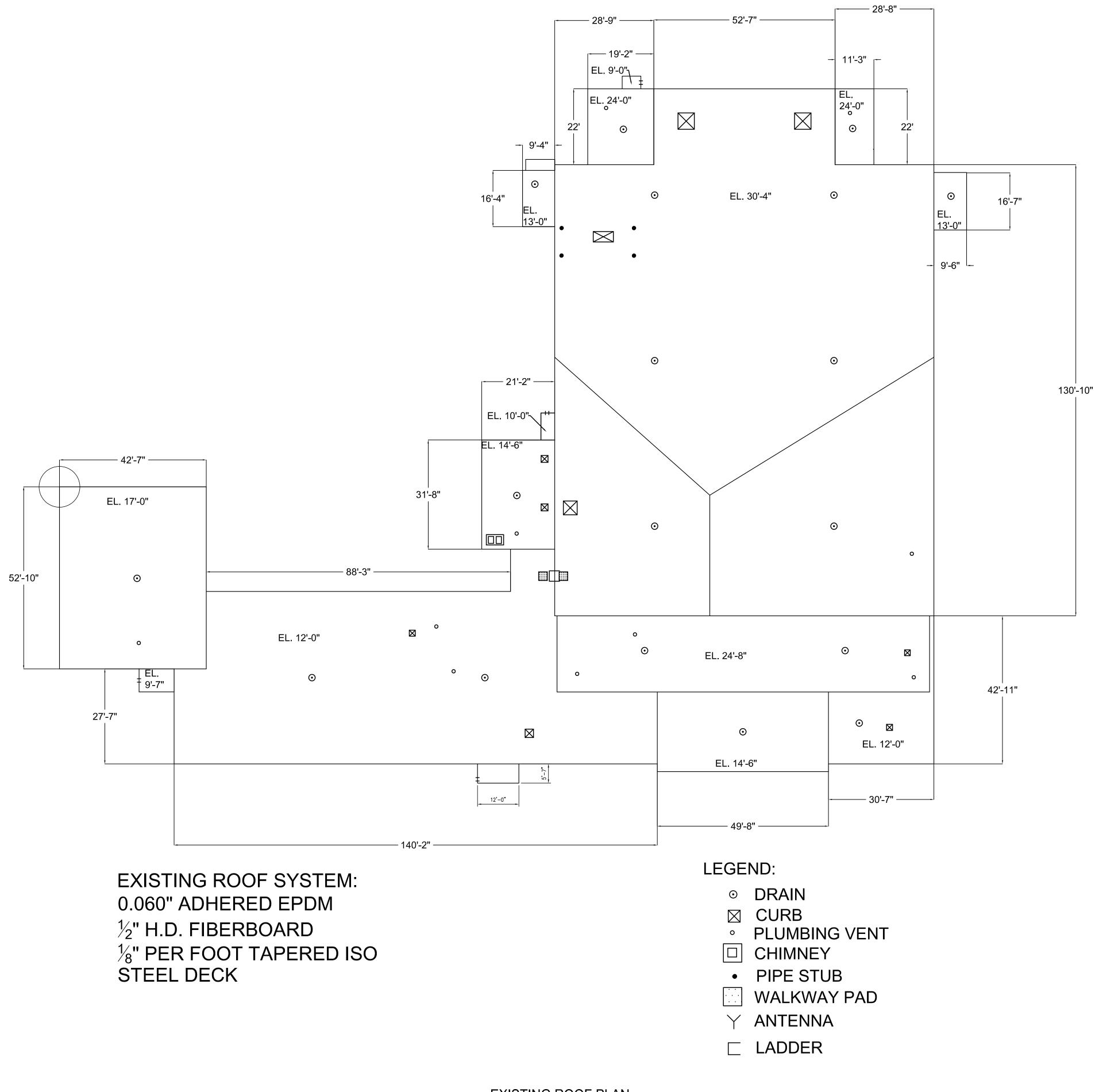








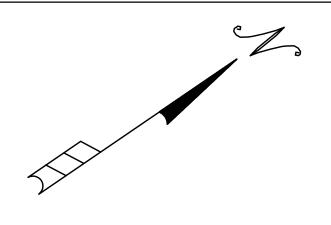


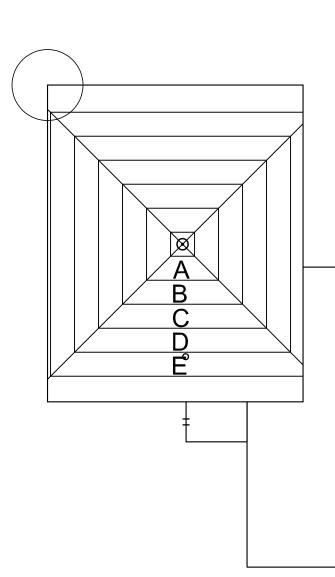


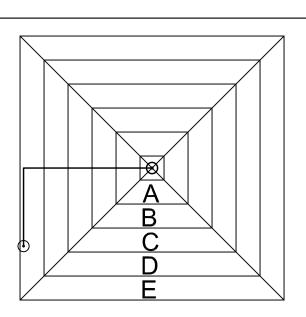
EXISTING ROOF PLAN

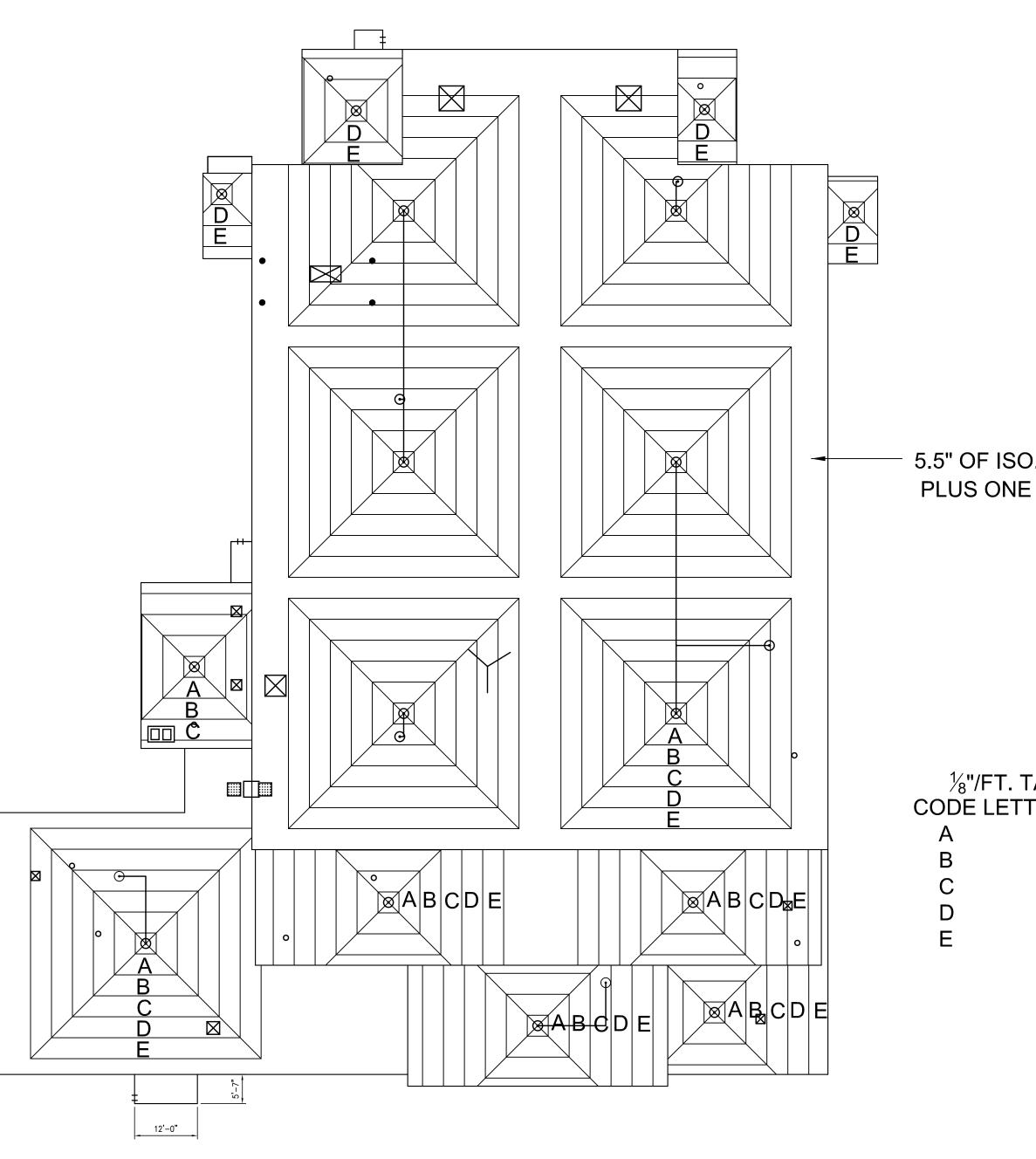
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EXISTING TAPERED INSULATION PLAN

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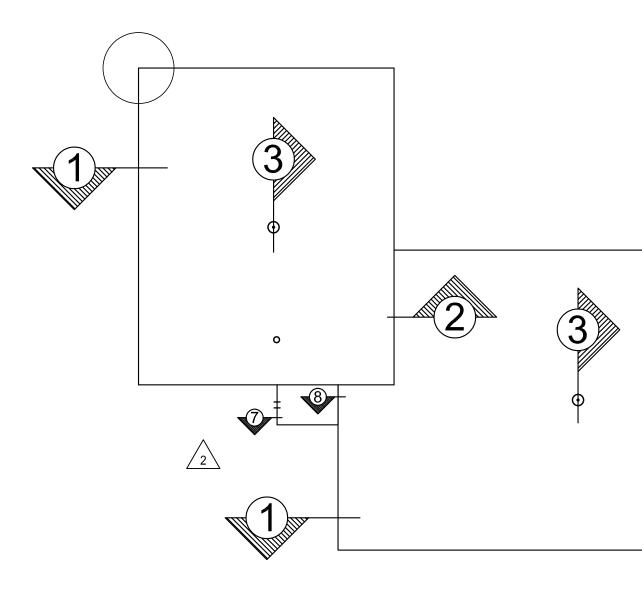
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	MAINE ARMY NATIONAL GUARD ROOF	WATERVILLE, MAINE		ROOF STRUCTURAL REINFORCEMENT				PLAN
	PLAN PROGRESS DRAFT 35% REVIEW 50% REVIEW 95% REVIEW FINAL REVIEW FOR BIDDING ISSUED FOR CONSTRUCTION RECORD DRAWINGS							
SHEET ID: R-102 SHEET: 6 OF 10								

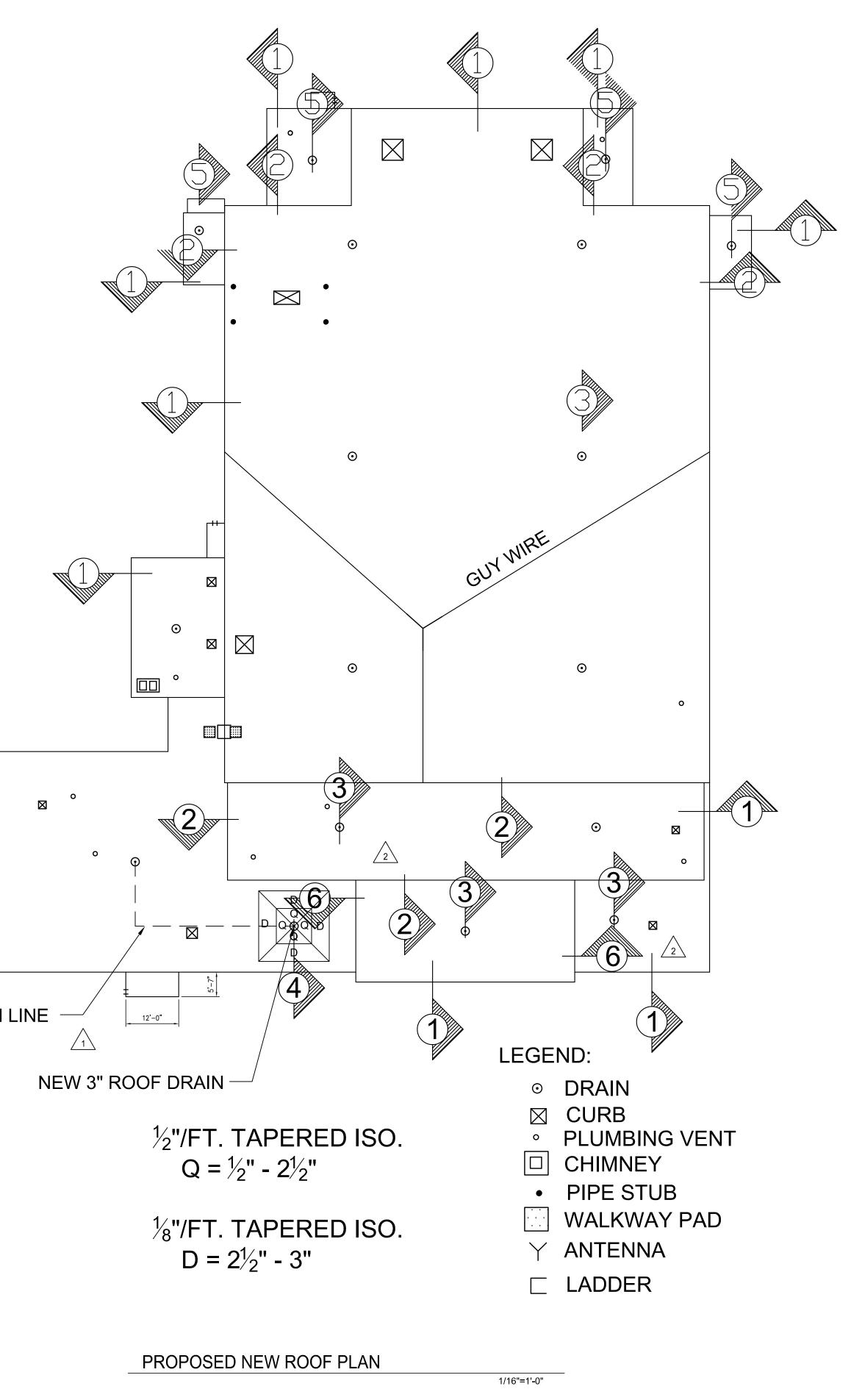
- 5.5" OF ISO. (ONE LAYER OF 2.0" ISO. PLUS ONE LAYER OF 3.5" ISO.)

 $\frac{1}{8}$ "/FT. TAPERED ISO. CODE LETTER THICKNESS (IN.) A 1-1.5 B 1.5-2 C 2-2.5 D 2.5-3 E 3.0-3.5

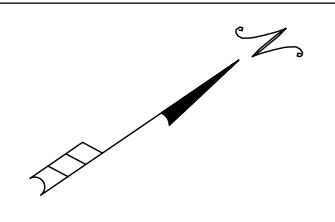
PROPOSED ROOF SYSTEM: NEW 0.090" ADHERED EPDM NEW $\frac{1}{2}$ " DENSDECK PRIME EXISTING $\frac{1}{8}$ " PER FOOT TAPERED ISO EXISTING STEEL DECK

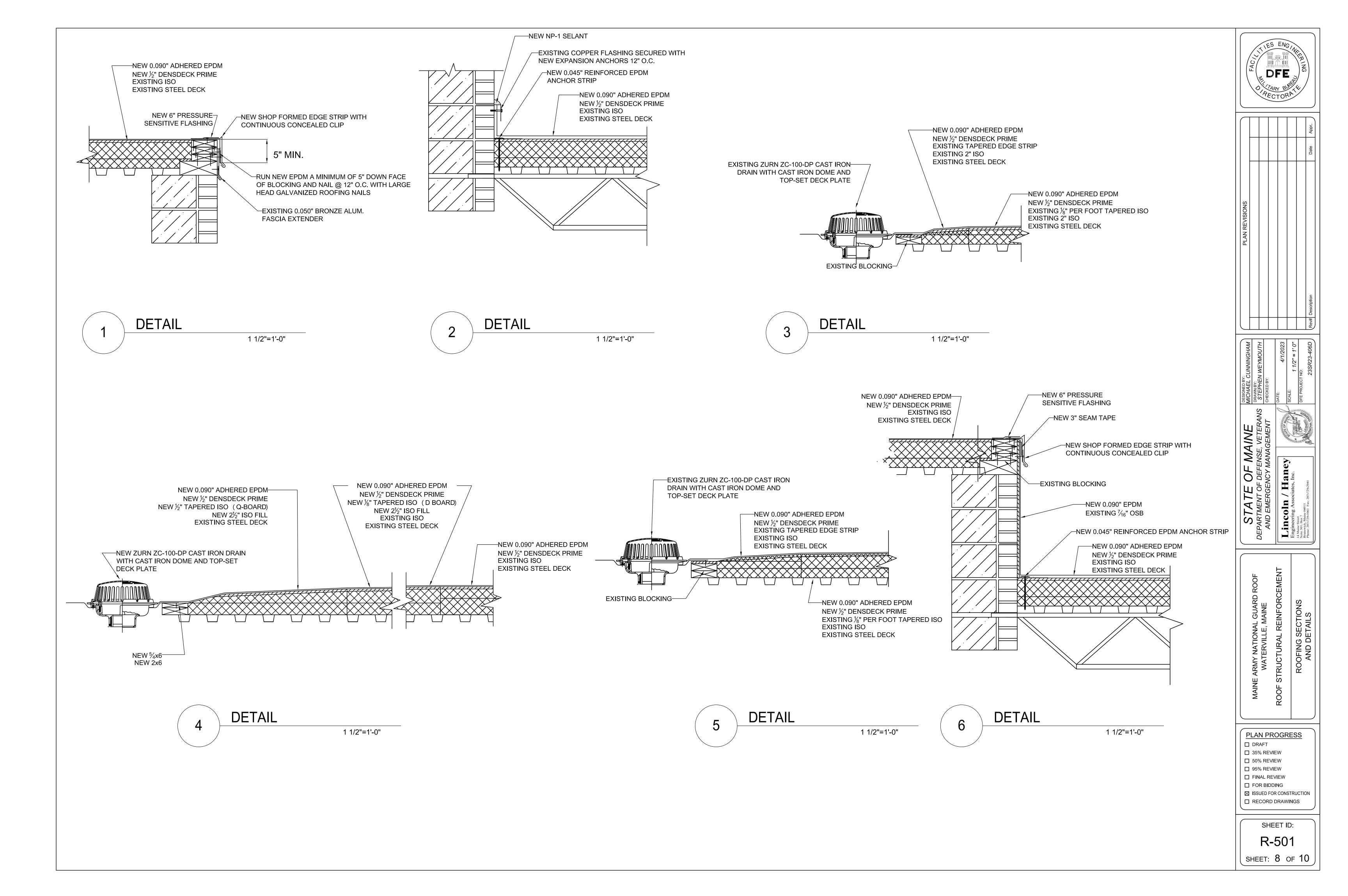
NEW 3" PVC DRAIN LINE

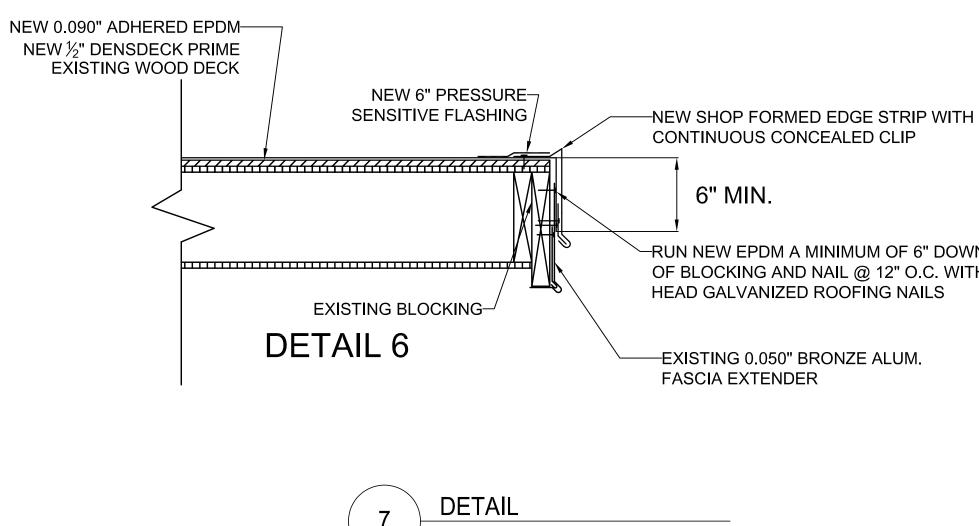


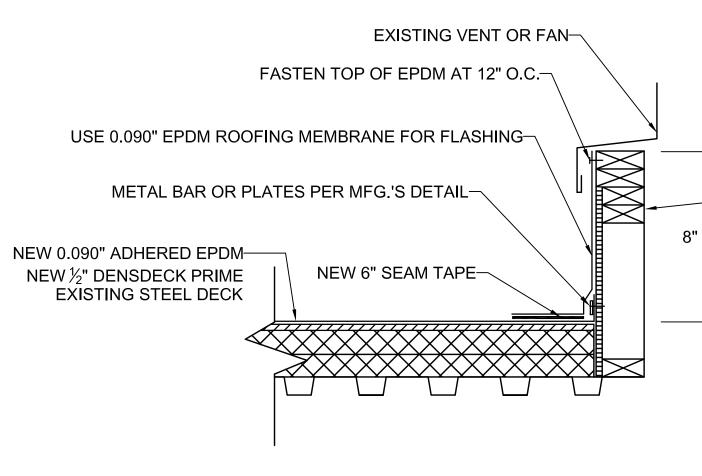


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TYPICAL CURB DETAIL 1 1/2"=1'-0"

– NEW NP-1 SEALANT NEW EXPANSION ANCHORS 12" O.C. /--NEW 0.045" REINFORCED EPDM ANCHOR STRIP

> DETAIL 8 1 1/2"=1'-0"

NEW LAP SEALANT NEW STAINLESS STEEL CLIP-NEW PRESSURE SENSITIVE PIPE BOOT-NEW 0.090" ADHERED EPDM-NEW $\frac{1}{2}$ " DENSDECK PRIME EXISTING STEEL DECK

TYPICAL VENT DETAIL

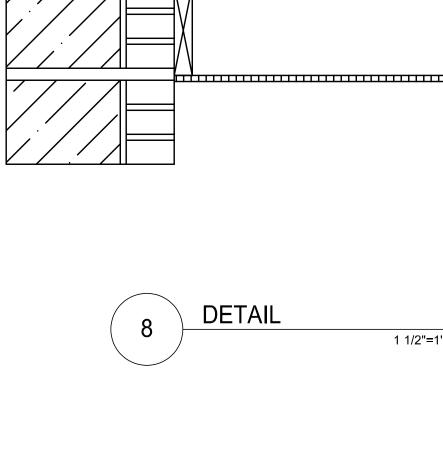
-RUN NEW EPDM A MINIMUM OF 6" DOWN FACE OF BLOCKING AND NAIL @ 12" O.C. WITH LARGE HEAD GALVANIZED ROOFING NAILS

-EXISTING 0.050" BRONZE ALUM.

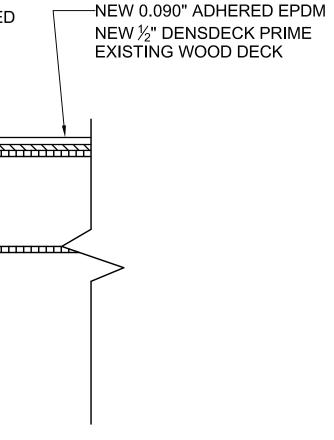
1 1/2"=1'-0"

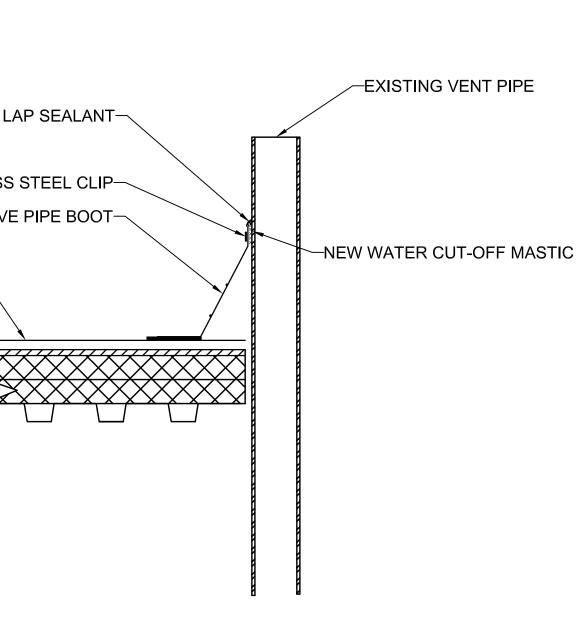
-EXISTING BLOCKING 8" MIN.



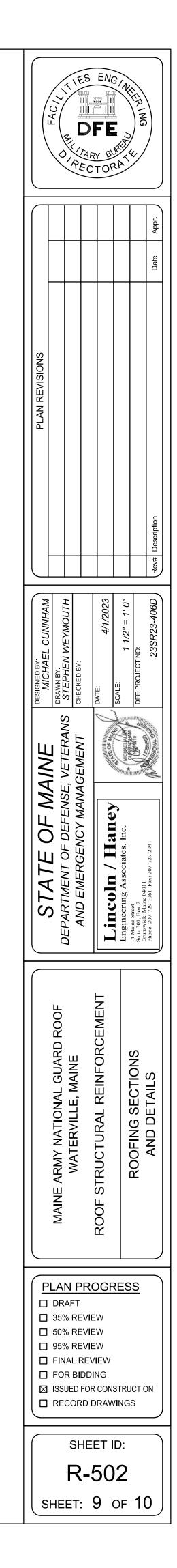




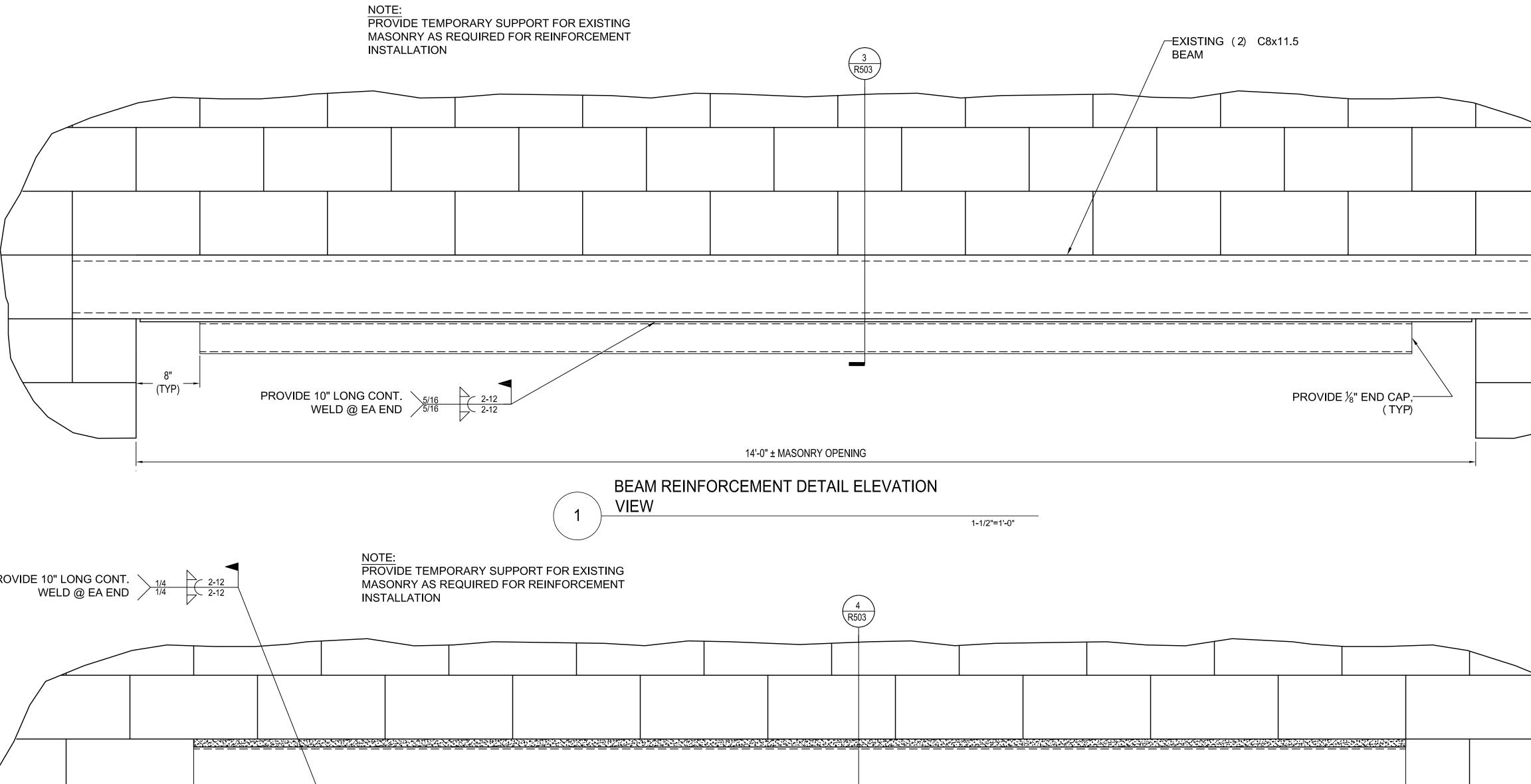


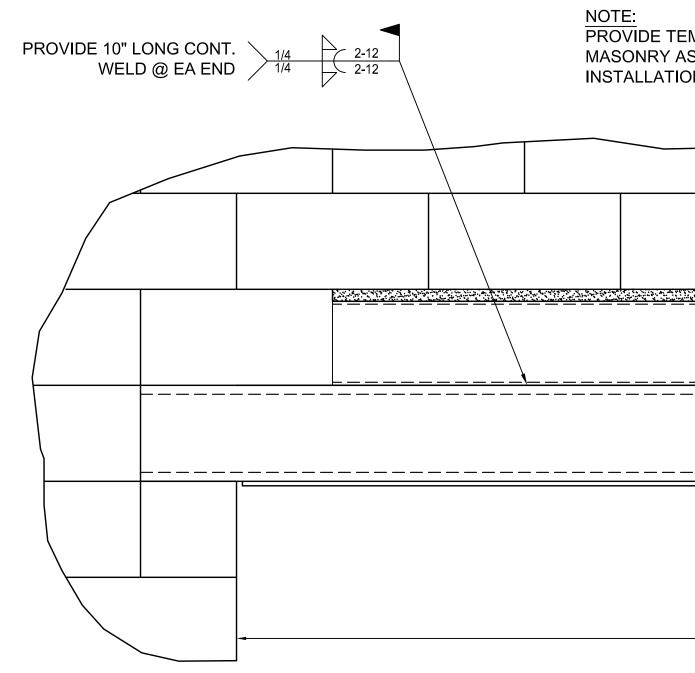


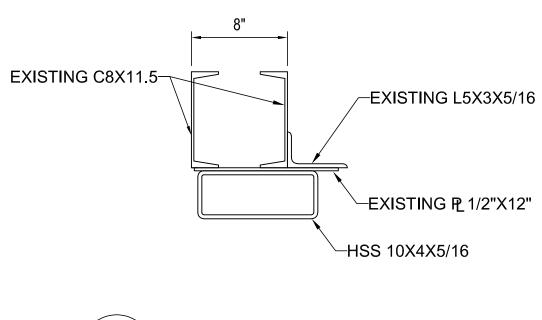






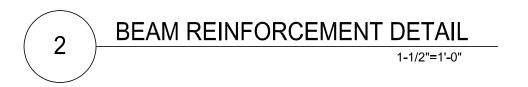








______ BEAM 14'-0" ± MASONRY OPENING

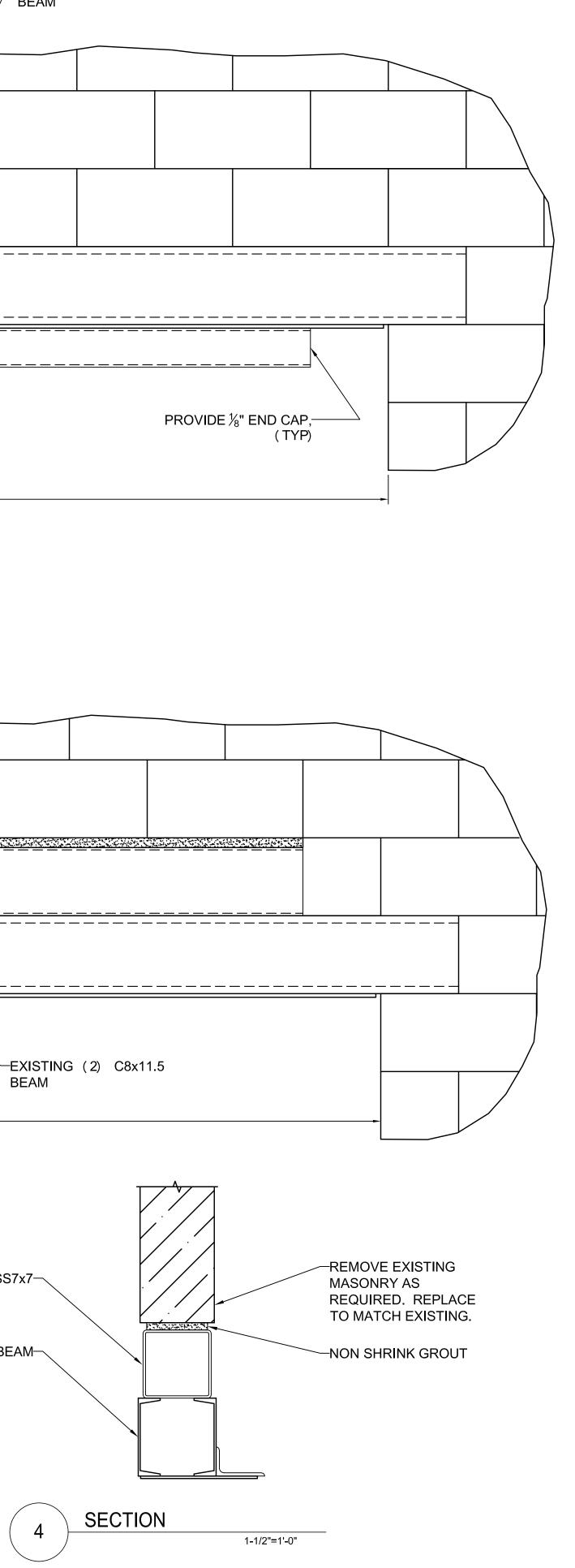


NEW HSS7x7-

EXISTING BEAM-



____EXISTING (2) C8x11.5



	PACIAL ACT	FE RY BY CTOR	AKER ING	5
PLAN REVISIONS				Date Appr.
	OUTH OUTH	4/1/2023	= 1'0"	-406D Rev# Description
STATE OF MAINE DESIGNED BY: MICHAEL CUNNHAM	ANS SANS	ICY DATE:	IIC.	Phone: 207-729-1061 Fax: 207-729-2941 23SR23-406D
	MAINE ARMY NATIONAL GUARD ROOF WATERVILLE, MAINE	ROOF STRUCTURAL REINFORCEMENT	ROOFING ELEVATIONS	AND SECTIONS
	50% REV 95% REV FINAL RE FOR BIDI ISSUED FO RECORD	IEW IEW EVIEW DING DR CONST		