

Addendum #1

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

Lewiston Readiness Center Roof Replacement Project
Project No. 23SR10-461-D, Bid Number #16-040

Directorate of Facilities Engineering

5 April 2016

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.

Note:

- 1) **Bids opening date has moved to April 21, 2016 at 2:00 PM.** Bids will be opened at Bldg. 8, Camp Keyes, Augusta, Maine. All other provisions regarding bid opening procedures remain unchanged.
- 2) Deadline for questions and substitution requests has also been moved to **April 14, 2016** at 2:00 pm.
- 3) All bidders **must** annotate their bid submission form, Section 00 41 13, Contractor Bid Form paragraph 2, with this addendum number and date.

Specification Items:

- a. **Remove** Section 00 01 10, in its entirety, and **insert** enclosed Revised Section 00 01 10. Changes are:
 - (1) The deletion of Section 00 73 16, Supplementary Conditions Insurance Requirements
 - (2) The addition of Section 07 21 10, Spray-In-Place Rigid Urethane Foam Insulation.
- b. **Remove** Section 00 73 16, Supplementary Conditions Insurance Requirements, in its entirety. Provisions contained in this section are not applicable for this project.
- c. **Insert** new Section 07 21 10, Spray-In-Place Rigid Urethane Foam Insulation.
- d. **Remove** Section 07 53 00, in its entirety, and **insert** enclosed Revised Section 07 53 00. Changes are:
 - (1) The addition of Johns Manville to the list of manufacturers, and changed from reinforced EPDM to unreinforced.

Drawing Items:

- a. **Remove** Sheets A-101, A-102, A-104, A-105, A-106, A-107, A-108, A-109, A-110, A-111, A-113, A-115, A-116, S-000, S-001, S-004, S-008 and **insert** enclosed sheets A-101, A-102, A-104, A-105, A-106, A-107, A-108, A-109, A-110, A-111, A-113, A-115, A-116, S-000, S-001, S-004, S-008.
Changes are as follows:

- (1) Sheet A-101: Removed notes from canopies to remain under this project.
- (2) Sheet A-102: Modified extent of repainting in Garage and Maintenance Bay.
- (3) Sheet A-104: Removed notes from canopies to remain under this project, modified the roofing removal note at the drill hall to reflect that there isn't OSB under the existing roofing.
- (4) Sheet A-105: Removed work notes from canopies to remain under this project.
- (5) Sheet A-106: Removed demo notes from canopies to remain under this project.
- (6) Sheet A-107: Modified the notes on the canopies not modified under this project to only include the cleaning and painting of the supports and the sealing of the brick above.
- (7) Sheet A-108: Removed demo notes from canopies to remain under this project.
- (8) Sheet A-109: Modified the notes on the canopies not modified under this project to only include the cleaning and painting of the supports and the sealing of the brick above.
- (9) Sheet A-110: Detail A, Change attic insulation to R-50 and added spray foam insulation to the eave/soffit. Detail B, Change attic insulation to R-50 and added blown-in fiberglass insulation at the gable soffit.
- (10) Sheet A-111: Detail C, Change attic insulation to R-50 and added spray foam insulation to the eave/soffit. Detail D, Change attic insulation to R-50.
- (11) Sheet A-113: Detail J, Added blown-in fiberglass insulation to eave soffit. Removed existing OSB. Detail K, Added blown-in fiberglass insulation to gable soffit. Removed existing OSB.
- (12) Sheet A-115: Detail W, Change attic insulation to R-50. Detail V, Change attic insulation to R-50.
- (13) Sheet A-116: Detail DD, Added blown-in fiberglass insulation to eave soffit. Removed existing OSB. Detail FF, Added blown-in fiberglass insulation to gable soffit. Removed existing OSB.
- (14) Sheet S-000: Changed the fastener into tectum decking.
- (15) Sheet S-001: Added the tightening of drill hall truss top chord bolts.
- (16) Sheet S-004: Modified the steel reinforcements of the north drill hall wall for a future door opening.
- (17) Sheet S-008: Eliminated from the scope of work.

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SECTION 07 21 10

SPRAY-IN-PLACE RIGID URETHANE FOAM INSULATION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Sprayed –in-place rigid urethane foam insulation.

1.02 RELATED REQUIREMENTS

- A. Section 01 00 00 – Administrative Provisions.
- B. Section 01 35 43 – Environmental Protection.
- C. Section 01 73 29 – Cutting and Patching.

1.03 SUBMITTALS

- A. Product Data: For each type of product indicated.
 - 1. Submit catalyst and temperature requirements for its use.
 - 2. Preparation instructions and recommendations.
 - 3. Storage and handling requirements and recommendations.
- B. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each product.
- C. Qualification Data: For Installer signed by manufacturer certifying that Installers comply with requirements. Submit list of similar type projects along with the Architect and Owner contact information for each project.
- D. Report of Framing and Sheathing Temperatures: Submit report of framing and sheathing temperatures taken prior to application of spray polyurethane foam insulation.
- E. Evaluation Reports: For spray-applied polyurethane foam-plastic insulation, from ICC-ES.

1.04 QUALITY ASSURANCE

- A. Installer Qualifications: Shall be approved in writing by spray polyurethane foam insulation manufacturer.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to Project site in original unopened containers with labels indicating manufacturer, product name and designation, and directions for storing and mixing with components.
- B. Store and handle materials in compliance with manufacturer's recommendations to prevent their deterioration or damage due to moisture, high or low temperatures, contaminants, or other causes. Store materials covered, out of direct sunlight, and at temperatures between 60 deg F and 70 deg F.

- C. Dispose of empty containers by technicians in accordance with manufacturer's recommendations, current law, and industry standard practice.

1.06 PROJECT CONDITIONS

- A. Environmental Limitations: Do not apply material when ambient or substrate temperature is 45 deg F or lower for 72 hours before, during, and for 24 hours after product application. Do not apply material when moisture due to dew, frost or water is present on substrate materials.

PART 2 PRODUCTS

2.01 SPRAY POLYURETHANE FOAM (SPF) INSULATION

- A. Closed-Cell Polyurethane Foam Insulation (SPF): ASTM C 1029, Type II, with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, per ASTM E 84; with non-ozone depleting blowing agent. Coordinate catalysis with application temperature conditions.
 - 1. Density: ASTM D 1622; minimum density of 2.0 lb/cu. ft.
 - 2. Thermal Resistivity (R-Factor), LTTR: Not less than 6.4 per inch of thickness.
 - 3. Closed Cell Content: ASTM D 2856, 90 percent minimum.
 - 4. Vapor Permeance: ASTM E 96, 1-inch thickness, 1.2 perms maximum.
 - 5. Fungi Resistance: ASTM C 1338, no growth.
 - 6. Applied Thickness: Apply to provide a cured thickness as follows:
 - a Exterior Walls: Not less than 3 inches and not more than 4 inches.
 - 7. Products :
 - a JM Corbond III SPF; Johns Manville Corporation.
 - b CertaSpray Closed Cell Foam; CertainTeed Corporation.
 - c Heatlok Soy; Demilec LLC, Arlington, TX.
 - d Icynene MD-C-200; Icynene, Inc.

PART 3 EXECUTION

3.01 PREPARATION

- A. Mask and cover windows, doors, electrical boxes, and other items not indicated to receive insulation, protecting from fallout or overspray of materials during application.
- B. Brush down framing, interior face of exterior sheathing, and adjacent substrates to loosen and remove cobwebs, dirt, dust and debris. Upon completion of brush-down, blow surfaces clean with compressed air to remove remaining surface dust and dirt. Upon completion of operations, substrate shall be clean of substances that are harmful to insulation or that interfere with insulation attachment.
- C. Maintain a minimum ambient and substrate temperature of 45 deg F for 72 hours prior to application of spray polyurethane foam insulation.
- D. Substrate Conditions: Verify that the temperature of the framing and sheathing substrates is 45 deg F or above. Do not apply insulation until substrates are at specified temperatures.

3.02 INSTALLATION OF SPRAY POLYURETHANE FOAM INSULATION

- A. Spray-Applied Insulation: Apply spray-applied insulation according to manufacturer's written instructions. Spray insulation to envelop entire area to be insulated and fill voids. Apply in consecutive passes as recommended by the manufacturer to achieve specified thickness.
 - 1. To prevent foam shrinkage and separation from exterior framing members, verify that proper catalyst is being used for temperature conditions. Maintain two part foam components at proper temperature in canisters and hose to nozzle tip.
 - 2. Apply foam at proper rate and thickness to assure foam does not overheat during curing.
- B. Where SPF is unprotected by gypsum board assemblies, apply insulation as uniformly and smooth as possible.
- C. Miscellaneous Voids: Apply according to manufacturer's written instructions.

3.03 CLEANING

- A. Cleaning: Remove material overspray, and protection materials from surfaces of other construction and clean exposed surfaces. Remove trash and debris from the project site and properly dispose of.

END OF SECTION 07 21 10

SECTION 07 53 00

ELASTOMERIC MEMBRANE ROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Elastomeric roofing membrane adhered conventional application.
- B. Insulation, flat.
- C. Flashings.
- D. Roofing stack boots and accessories.

1.02 RELATED REQUIREMENTS

- A. Section 01 00 00 – Administrative Provisions.
- B. Section 01 35 43 – Environmental Protection.
- C. Section 01 73 29 – Cutting and Patching.
- D. Section 07 62 00 – Sheet Metal Flashing and Trim.

1.03 REFERENCE STANDARDS

- A. ASTM C 1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board; 2007.
- B. ASTM D 412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension; 2006a.
- C. ASTM D 570 - Standard Test Method for Water Absorption of Plastics; 1998 (Reapproved 2005).
- D. ASTM D 624 - Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers; 2000 (Reapproved 2007).
- E. ASTM D 2240 - Standard Test Method for Rubber Property--Durometer Hardness; 2005.
- F. ASTM D 4637 - Standard Specification for EPDM Sheet Used in Single-Ply Roof Membrane; 2004.
- G. NRCA ML104 - The NRCA Roofing and Waterproofing Manual; National Roofing Contractors Association; Fifth Edition, with interim updates.
- H. ASCE 7 - Minimum Design Loads for Buildings and Other Structures; 2011. The project is located in Lewiston, Maine; Basic Wind Speed: 90 MPH; Exposure Factor: C; Importance Factor: 1.
- I. UL 580 - Standard for Tests for Uplift Resistance of Roof Assemblies; Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Pre-installation Meeting: Convene a pre-installation meeting one week before starting work of

this section; require attendance by all affected installers; review preparation and installation procedures and coordination and scheduling necessary for related work.

1.05 SUBMITTALS

- A. Product Data: Provide data indicating membrane materials, flashing materials, insulation, surfacing, and fasteners.
- B. Shop Drawings: Indicate joint or termination detail conditions and conditions of interface with other materials.
- C. Samples for Verification: Submit two samples illustrating insulation.
- D. Manufacturer's Installation Instructions: Indicate membrane seaming precautions and perimeter conditions requiring special attention.
- E. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
- F. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

- A. Perform work in accordance with NRCA Roofing and Waterproofing Manual and manufacturer's instructions.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- C. Applicator Qualifications: Company specializing in performing the work of this section with minimum 5 years experience and approved by manufacturer.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products in manufacturer's original containers, dry, undamaged, with seals and labels intact.
- B. Store products in weather protected environment, clear of ground and moisture.
- C. Protect foam insulation from direct exposure to sunlight.

1.08 FIELD CONDITIONS

- A. Do not apply roofing membrane during unsuitable weather.
- B. Do not apply roofing membrane when ambient temperature is below 40 degrees F or above 100 degrees F.
- C. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- D. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

1.09 WARRANTY

- A. Provide twenty (20) year full system water-tightness, no dollar limit warranty. Warranty shall include wind damage up to 90 MPH per ASCE 7.

- B. Provide five year General Contractor's Watertight Warranty.
- C. Manufacturer's warranties that require periodic inspections or repairs at the Government's expense to maintain the warranty are not permitted.
- D. All roof curbs, flashing and penetration flashings are covered under the warranty.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. EPDM Membrane Materials:
 - 1. Carlisle SynTec: www.carlisle-syntec.com.
 - 2. Firestone Building Products Co: www.firestonebpco.com.
 - 3. GenFlex Roofing Systems: www.genflex.com.
 - 4. **Johns Manville: www.jm.com**

2.02 ROOFING - UNBALLASTED APPLICATIONS

- A. Elastomeric Membrane Roofing: One ply membrane, fully adhered, over insulation.
- B. Acceptable Insulation Types - Constant Thickness Application: Any of the types specified.
 - 1. Minimum 2 layers of polyisocyanurate board.

2.03 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

- A. Membrane: Ethylene-propylene-diene-terpolymer (EPDM); **unreinforced**; complying with minimum properties of ASTM D 4637.
 - 1. Thickness: .090 inch.
 - 2. Sheet Width: 76 inch, minimum; factory-fabricate into largest sheets possible.
 - 3. Color: black.
- B. Seaming Materials: As recommended by membrane manufacturer.
- C. Flexible Flashing Material: Same material as membrane; conforming to the following:
 - 1. Color: Black.

2.04 INSULATION

- A. Polyisocyanurate Board Insulation: Rigid cellular foam, complying with ASTM C 1289, Constant thickness insulation, Type II, Class 1, cellulose felt or glass fiber mat both faces; Grade 2 and with the following characteristics:
 - 1. Compressive Strength: 20 psi
 - 2. Board Size: 48 x 96 inch.
 - 3. Board Thickness: 1 1/2 inch. (Two plies)
 - 4. Thermal Resistance: Minimum R-value of 30 (Existing plus New Insulation Board).
 - 5. Board Edges: Square.
 - 6. Manufacturers:
 - a. Atlas Roofing Corporation: www.atlasroofing.com.
 - b. Dow Chemical Co: www.dow.com.
 - c. GAF Materials Corporation: www.gaf.com.

2.05 ACCESSORIES

- A. Stack Boots: Prefabricated flexible boot and collar for pipe stacks through membrane; same material as membrane.
- B. Insulation Fasteners: Appropriate for purpose intended and approved by roofing manufacturer.
 - 1. Length as required for thickness of insulation material and penetration of deck substrate, with metal washers.
 - 2. Fasteners into treated wood shall be Type 304 or type 316 stainless steel, double hot dipped galvanizing complying with ASTM A153/A153M or other specially treated corrosion-resistant fasteners complying with ASTM A653/A653M, Class G185.
- C. Membrane Adhesive: As recommended by membrane manufacturer.
- D. Surface Conditioner for Adhesives: Compatible with membrane and adhesives.
- E. Thinners and Cleaners: As recommended by adhesive manufacturer, compatible with membrane.
- F. Insulation Adhesive: As recommended by insulation manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces and site conditions are ready to receive work.
- B. Verify deck is supported and secure.
- C. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.
- D. Verify deck surfaces are dry and free of snow or ice.
- E. Verify that roof openings, curbs, and penetrations through roof are solidly set, and cant strips are in place.

3.02 VAPOR RETARDER AND INSULATION - UNDER MEMBRANE

- A. Attachment of Insulation:
 - 1. Mechanically fasten first layer of insulation to deck in accordance with roofing manufacturer's instructions.
 - 2. Embed second layer of insulation into full bed of adhesive in accordance with roofing and insulation manufacturers' instructions.
- B. Lay subsequent layers of insulation with joints staggered minimum 6 inch from joints of preceding layer.
- C. Lay boards with edges in moderate contact without forcing. Cut insulation to fit neatly to perimeter blocking and around penetrations through roof.
- D. Do not apply more insulation than can be covered with membrane in same day.

3.03 MEMBRANE APPLICATION

- A. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.
- B. Shingle joints on sloped substrate in direction of drainage.
- C. Fully Adhered Application: Fully embed membrane in adhesive except in areas directly over or within 3 inches of expansion joints. Fully adhere one roll before proceeding to adjacent rolls.
- D. Overlap edges and ends and seal seams by contact adhesive, minimum 6 inches. Seal permanently waterproof. Apply uniform bead of sealant to joint edge. All lap seams shall be fabricated with 6 inch seam tape and stripped-in with self adhering semi-cured EPDM cover strips.
- E. At intersections with vertical surfaces:
 - 1. Extend membrane over cant strips and up a minimum of 4 inches onto vertical surfaces.
 - 2. Fully adhere flexible flashing over membrane and up to nailing strips.
- F. At gravel stops, extend membrane under gravel stop and to the outside face of the wall.
- G. Around roof penetrations, seal flanges and flashings with flexible flashing.

3.04 FINISHING UNBALLASTED SURFACES

- A. Apply finish membrane flashing to membrane and flashing surfaces exposed to view, in accordance with manufacturer's instructions.

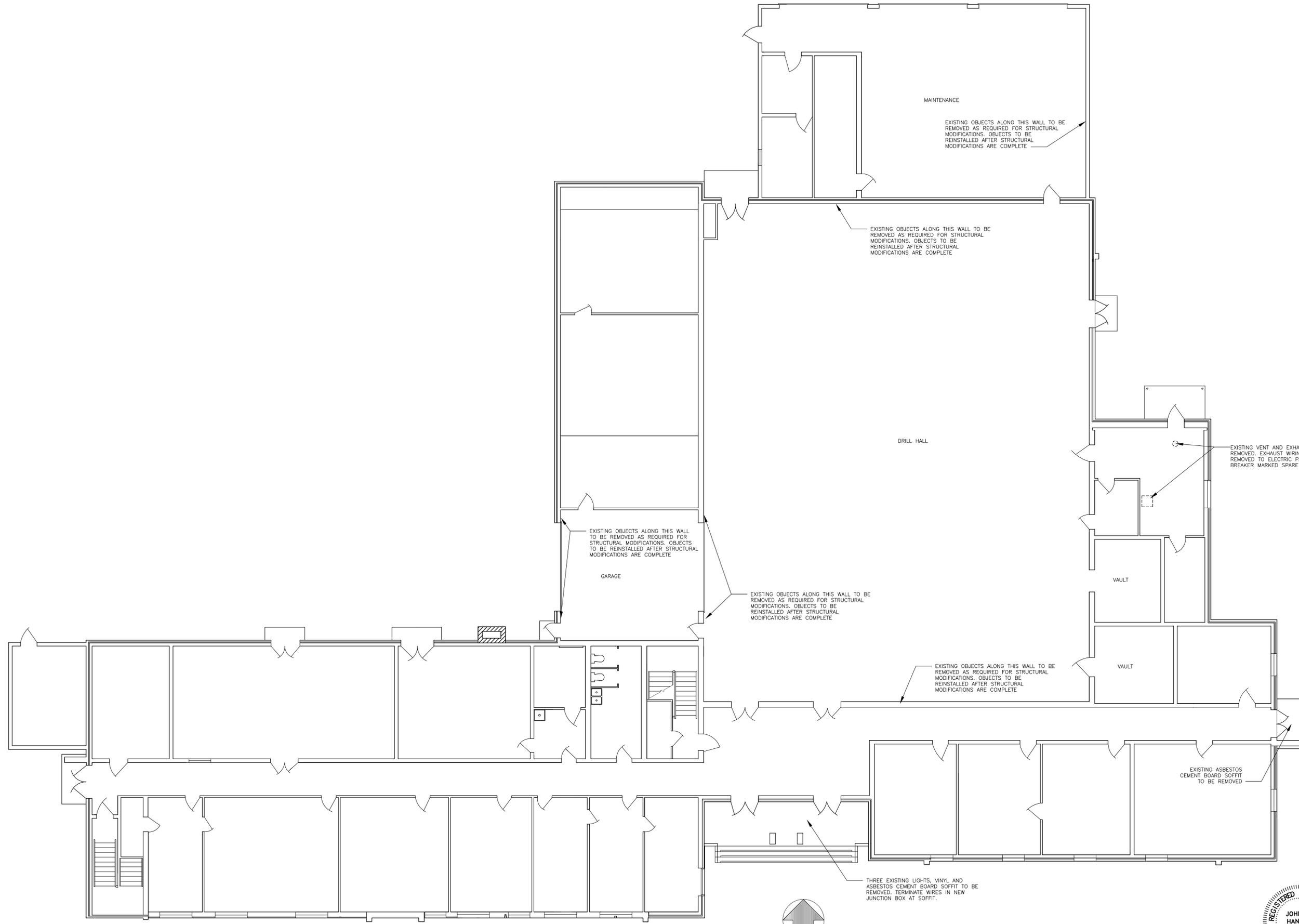
3.05 CLEANING

- A. In areas where finished surfaces are soiled by work of this section, consult manufacturer of surfaces for cleaning advice and conform to their documented instructions.
- B. Repair or replace defaced or damaged finishes caused by work of this section.

3.06 PROTECTION

- A. Protect installed roofing and flashings from construction operations.
- B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

END OF SECTION 07 53 00



MAINTENANCE

EXISTING OBJECTS ALONG THIS WALL TO BE REMOVED AS REQUIRED FOR STRUCTURAL MODIFICATIONS. OBJECTS TO BE REINSTALLED AFTER STRUCTURAL MODIFICATIONS ARE COMPLETE

EXISTING OBJECTS ALONG THIS WALL TO BE REMOVED AS REQUIRED FOR STRUCTURAL MODIFICATIONS. OBJECTS TO BE REINSTALLED AFTER STRUCTURAL MODIFICATIONS ARE COMPLETE

DRILL HALL

EXISTING VENT AND EXHAUST TO BE REMOVED. EXHAUST WIRING TO BE REMOVED TO ELECTRIC PANEL AND BREAKER MARKED SPARE

EXISTING OBJECTS ALONG THIS WALL TO BE REMOVED AS REQUIRED FOR STRUCTURAL MODIFICATIONS. OBJECTS TO BE REINSTALLED AFTER STRUCTURAL MODIFICATIONS ARE COMPLETE

GARAGE

EXISTING OBJECTS ALONG THIS WALL TO BE REMOVED AS REQUIRED FOR STRUCTURAL MODIFICATIONS. OBJECTS TO BE REINSTALLED AFTER STRUCTURAL MODIFICATIONS ARE COMPLETE

EXISTING OBJECTS ALONG THIS WALL TO BE REMOVED AS REQUIRED FOR STRUCTURAL MODIFICATIONS. OBJECTS TO BE REINSTALLED AFTER STRUCTURAL MODIFICATIONS ARE COMPLETE

VAULT

VAULT

EXISTING ASBESTOS CEMENT BOARD SOFFIT TO BE REMOVED

THREE EXISTING LIGHTS, VINYL AND ASBESTOS CEMENT BOARD SOFFIT TO BE REMOVED. TERMINATE WIRES IN NEW JUNCTION BOX AT SOFFIT.



FIRST FLOOR DEMOLITION PLAN 1/8" = 1'-0"



PLAN REVISIONS	
Rev#	Description
1	Addendum #1
	Date 3/31/16
	Appr.

DESIGNED BY: JEH	DATE: 02/02/2016
DRAWN BY: CMC	SCALE: AS NOTED
CHECKED BY: MAD	DFE PROJECT NO: 23SR10-461-D

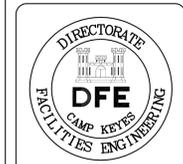
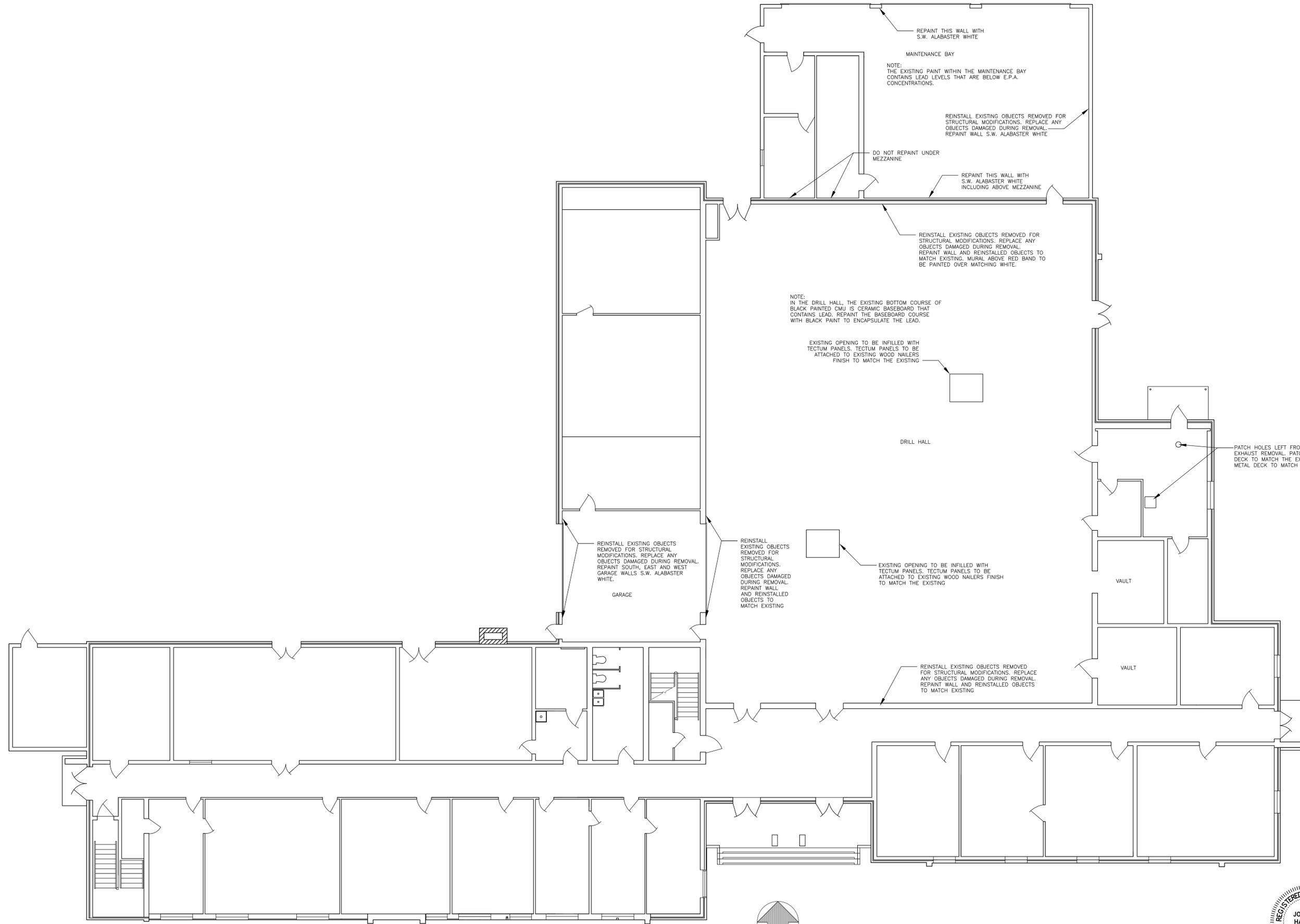
STATE OF MAINE
 DEPARTMENT OF DEFENSE, VETERANS
 AND EMERGENCY MANAGEMENT
 Cordjia Capitol Projects Group
 John E. Hansen, Architect
 16 Tannery Lane, Suite 23
 Camden, Maine 04843
 207-236-9970 / mdaigle@cordjiacppg.com

LEWISTON ARMORY
 LEWISTON, MAINE
 LEWISTON READINESS CENTER ROOF REPLACEMENT
 FIRST FLOOR DEMOLITION PLAN

- PLAN PROGRESS**
- DRAFT
 - 35% REVIEW
 - 65% REVIEW
 - 95% REVIEW
 - FINAL REVIEW
 - FOR BIDDING
 - ISSUED FOR CONSTRUCTION
 - RECORD DRAWINGS



SHEET ID:
 A-101
 SHEET: 4 OF 36



PLAN REVISIONS	
Rev#	Description
1	Addendum #1
	Date
	3/31/16
	Appr.

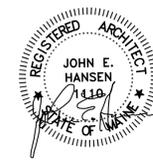
DESIGNED BY: JEH	CHECKED BY: MAD	DATE: 02/02/2016	SCALE: AS NOTED	DFE PROJECT NO: 23SR10-461-D
DRAWN BY: CMC				

STATE OF MAINE
 DEPARTMENT OF DEFENSE, VETERANS
 AND EMERGENCY MANAGEMENT
 Cordja Capitol Projects Group
 John E. Hansen, Architect
 16 Cornery Lane, Suite 23
 Camden, Maine 04843
 207-236-9970 / mdaigle@cordjagroup.com

LEWISTON ARMORY
 LEWISTON, MAINE
 LEWISTON READINESS CENTER ROOF REPLACEMENT
 PROPOSED FIRST FLOOR PLAN

- PLAN PROGRESS**
- DRAFT
 - 35% REVIEW
 - 65% REVIEW
 - 95% REVIEW
 - FINAL REVIEW
 - FOR BIDDING
 - ISSUED FOR CONSTRUCTION
 - RECORD DRAWINGS

SHEET ID:
 A-102
 SHEET: 5 OF 36



PROPOSED FIRST FLOOR PLAN 1/8" = 1'-0"



PLAN REVISIONS	
Rev#	Description
1	Addendum #1
	Date 3/31/16
	Appr.

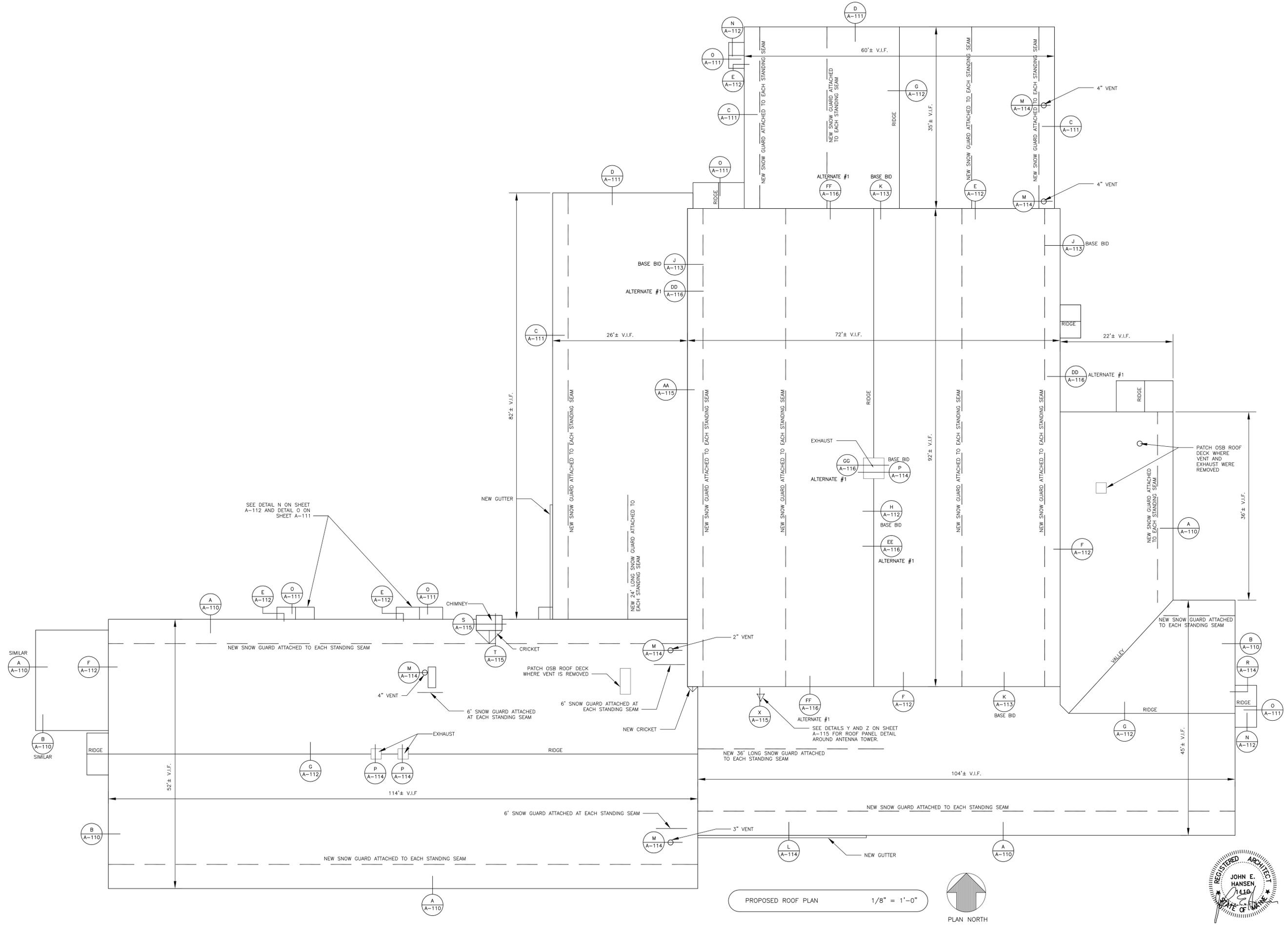
DESIGNED BY: JEH	CHECKED BY: CMC
DRAWN BY: CMC	DATE: 02/02/2016
SCALE: AS NOTED	DFE PROJECT NO: 23SR10-461-D

STATE OF MAINE
 DEPARTMENT OF DEFENSE, VETERANS
 AND EMERGENCY MANAGEMENT
 Cordja Capitol Projects Group
 John E. Hansen, Architect
 16 Cornery Lane, Suite 23
 Camden Maine 04843
 207-236-9970 / mdaigle@cordjagroup.com

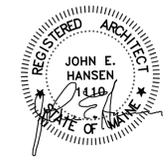
LEWISTON ARMORY
 LEWISTON, MAINE
 LEWISTON READINESS CENTER ROOF REPLACEMENT
 PROPOSED ROOF PLAN

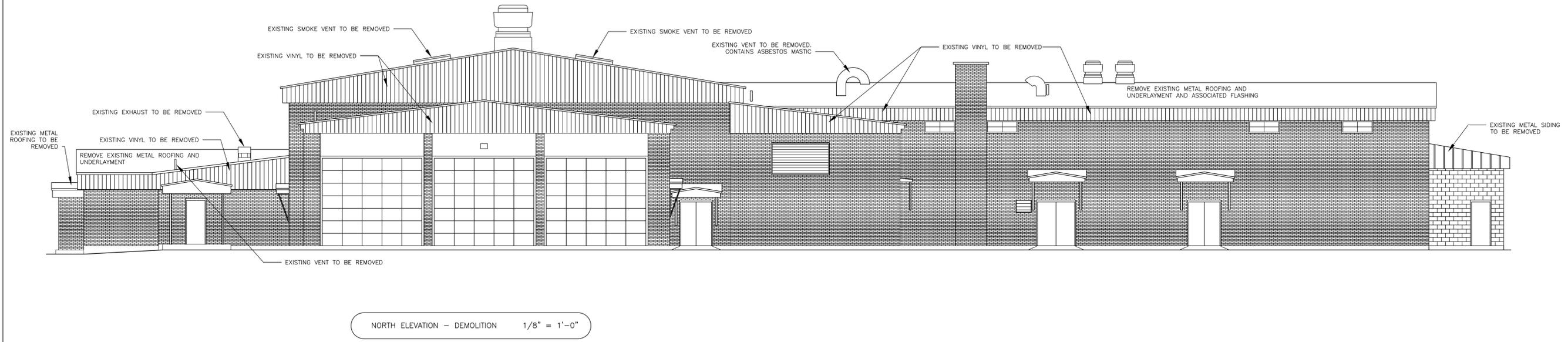
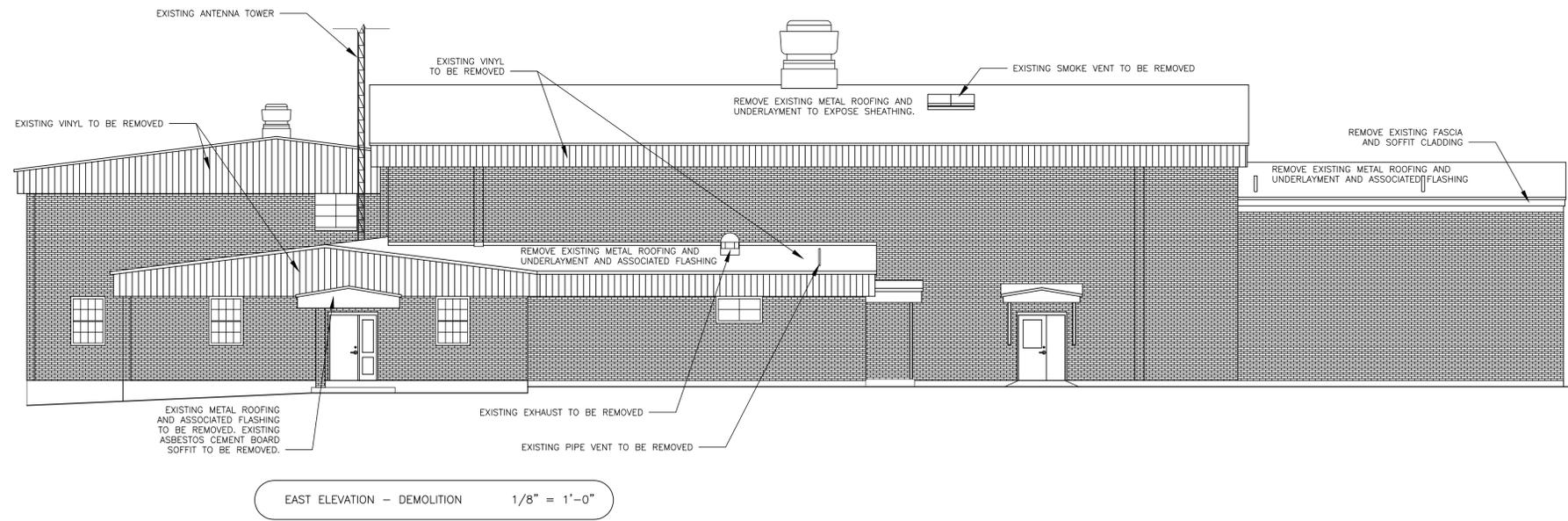
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<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:
 A-105
 SHEET: 8 OF 36



PROPOSED ROOF PLAN 1/8" = 1'-0"





PLAN REVISIONS		Date	Appr.
1	Addendum #1	3/31/16	
	Rev#	Description	

DESIGNED BY: JEH
 DRAWN BY: CMC
 CHECKED BY: MAD
 DATE: 02/02/2016
 SCALE: AS NOTED
 DFE PROJECT NO: 23SR10-461-D

STATE OF MAINE
 DEPARTMENT OF DEFENSE, VETERANS
 AND EMERGENCY MANAGEMENT
 Cordjia Capitol Projects Group
 John E. Hansen, Architect
 16 Canby Lane, Suite 23
 Camden, Maine 04843
 207-236-9970 / mdaigle@cordjiacpg.com

LEWISTON ARMORY
 LEWISTON, MAINE
 DEMOLITION PLAN
 NORTH & EAST ELEVATIONS

- PLAN PROGRESS**
- DRAFT
 - 35% REVIEW
 - 65% REVIEW
 - 95% REVIEW
 - FINAL REVIEW
 - FOR BIDDING
 - ISSUED FOR CONSTRUCTION
 - RECORD DRAWINGS

SHEET ID:
 A-106
 SHEET: 9 OF 36





PLAN REVISIONS		Date	Appr.
1	Addendum #1	3/31/16	
	Rev#		

DESIGNED BY: JEH
 DRAWN BY: CMC
 CHECKED BY: MAD
 DATE: 02/02/2016
 SCALE: AS NOTED
 DFE PROJECT NO: 23SR10-461-D

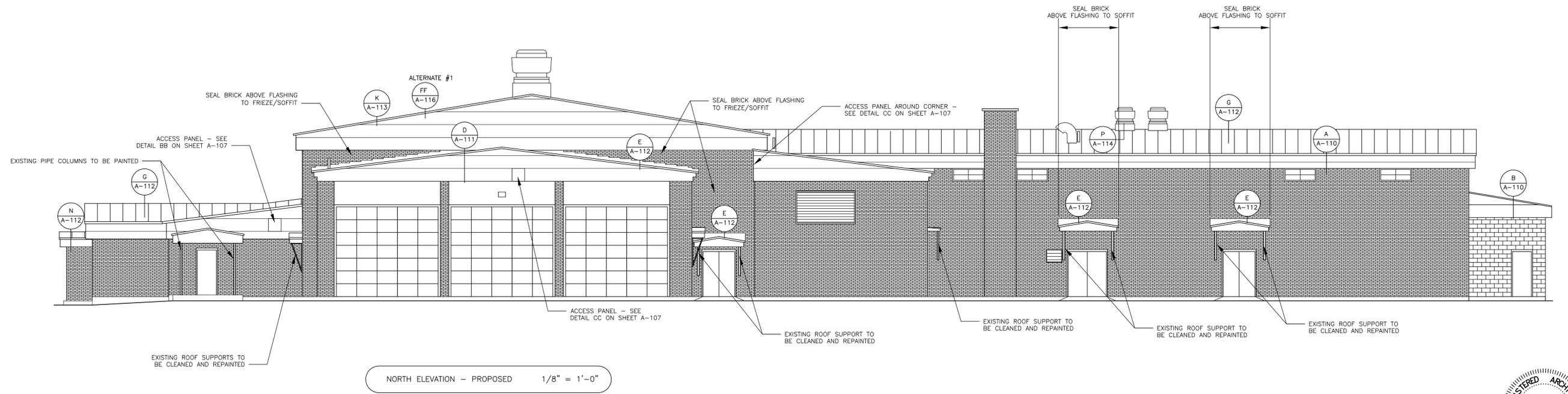
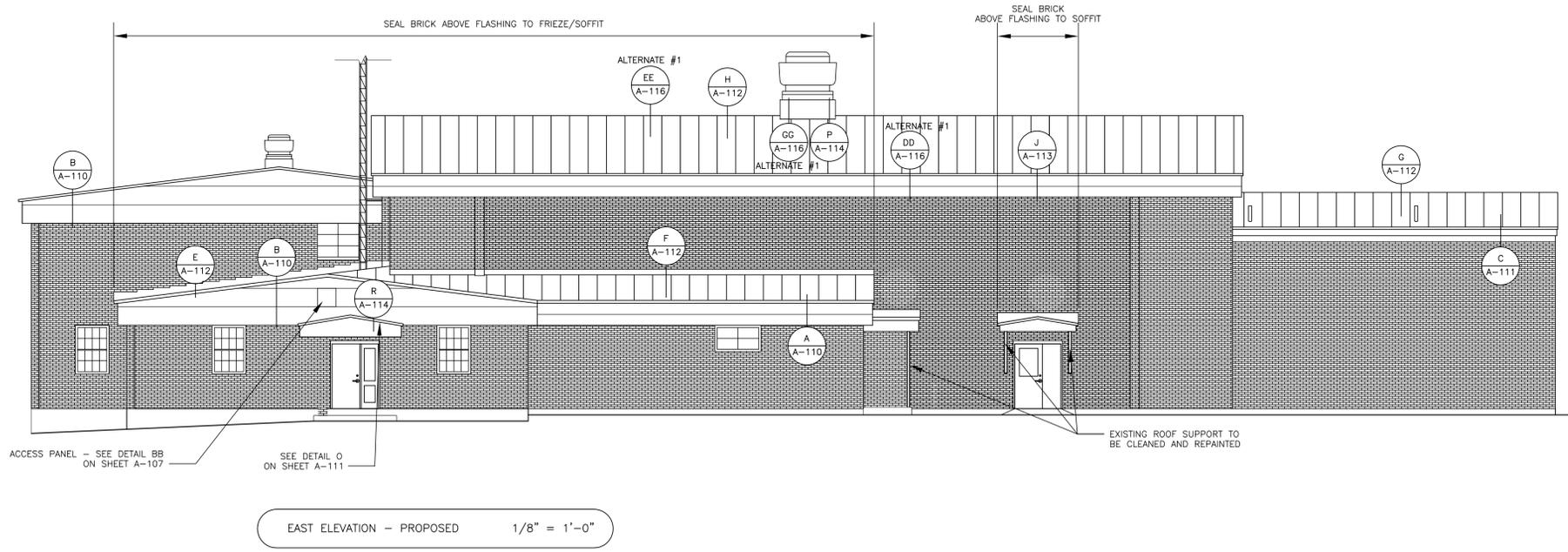
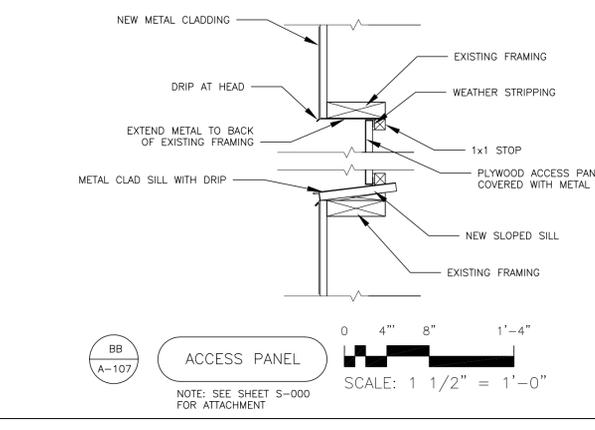
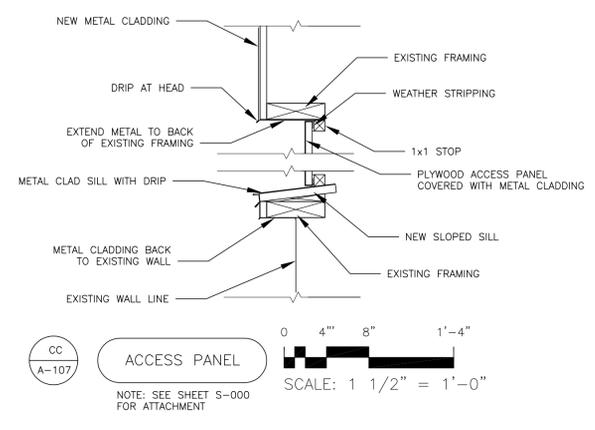
STATE OF MAINE
 DEPARTMENT OF DEFENSE, VETERANS
 AND EMERGENCY MANAGEMENT
 Cordjia Capitol Projects Group
 John E. Hansen, Architect
 16 Cornery Lane, Suite 23
 Camden Maine 04843
 207-236-9970 / mdaigle@cordjiaacpg.com

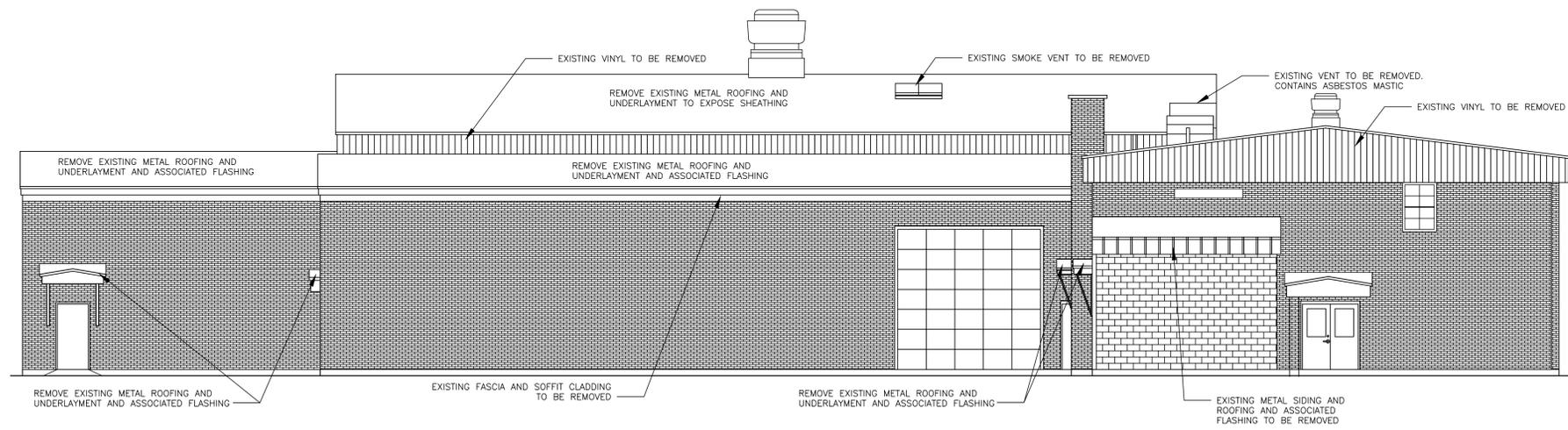
LEWISTON ARMORY
 LEWISTON, MAINE
 LEWISTON READNESS CENTER ROOF REPLACEMENT
 PROPOSED
 NORTH & EAST ELEVATIONS

PLAN PROGRESS

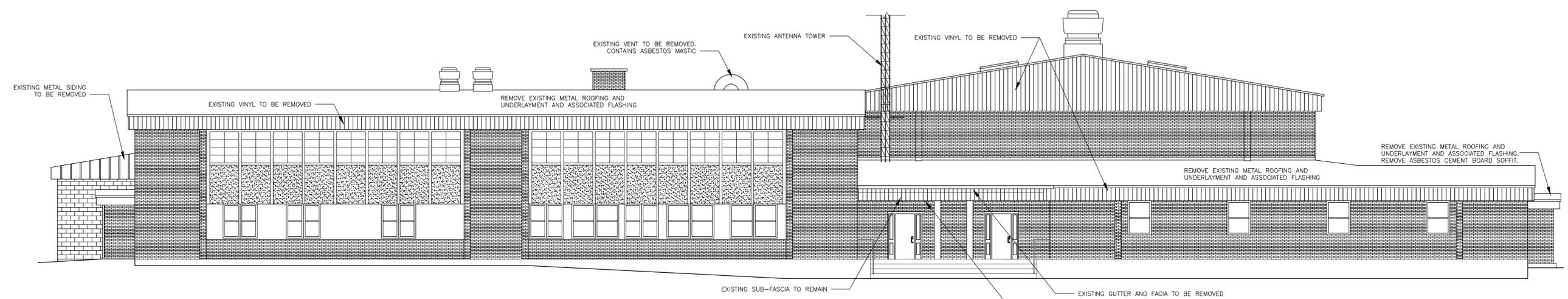
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<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:
 A-107
 SHEET: 10 of 36





WEST ELEVATION - DEMOLITION 1/8" = 1'-0"



SOUTH ELEVATION - DEMOLITION 1/8" = 1'-0"

PLAN REVISIONS

Rev#	Description	Date	Appr.
1	Addendum #1	3/31/16	

DESIGNED BY: JEH
 DRAWN BY: CMC
 CHECKED BY: MAD
 DATE: 02/02/2016
 SCALE: AS NOTED
 DFE PROJECT NO: 23SR10-461-D

STATE OF MAINE
 DEPARTMENT OF DEFENSE, VETERANS
 AND EMERGENCY MANAGEMENT
 Cordjia Capitol Projects Group
 John E. Hansen, Architect
 16 Tannery Lane, Suite 23
 Camden, Maine 04843
 207-236-9970 / mdaigle@cordjiacppg.com

LEWISTON ARMORY
 LEWISTON, MAINE
 LEWISTON READINESS CENTER ROOF REPLACEMENT
 DEMOLITION PLAN
 SOUTH & WEST ELEVATIONS

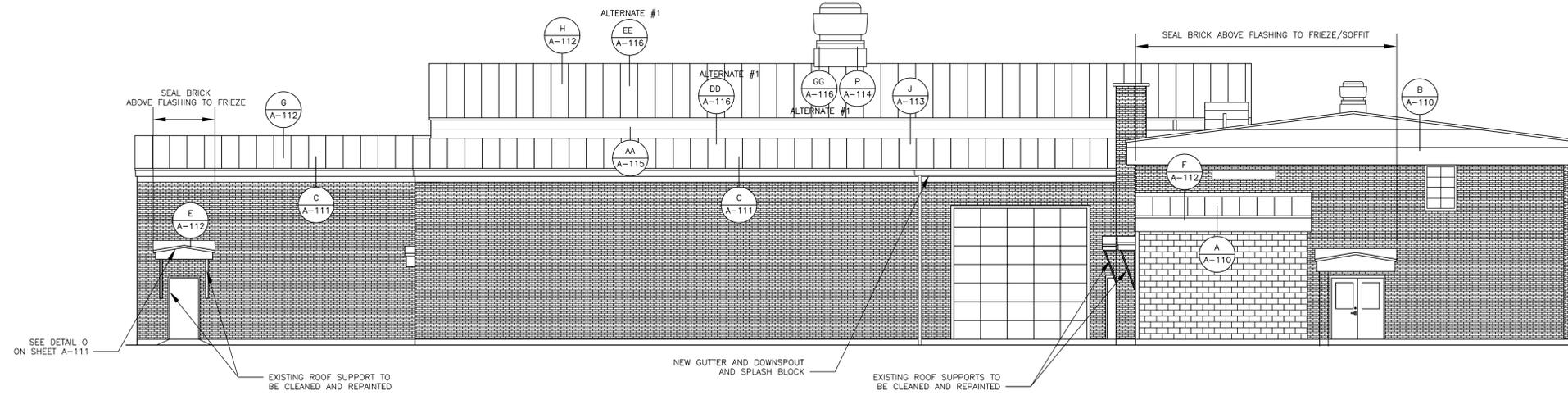
- PLAN PROGRESS
- DRAFT
 - 35% REVIEW
 - 65% REVIEW
 - 95% REVIEW
 - FINAL REVIEW
 - FOR BIDDING
 - ISSUED FOR CONSTRUCTION
 - RECORD DRAWINGS



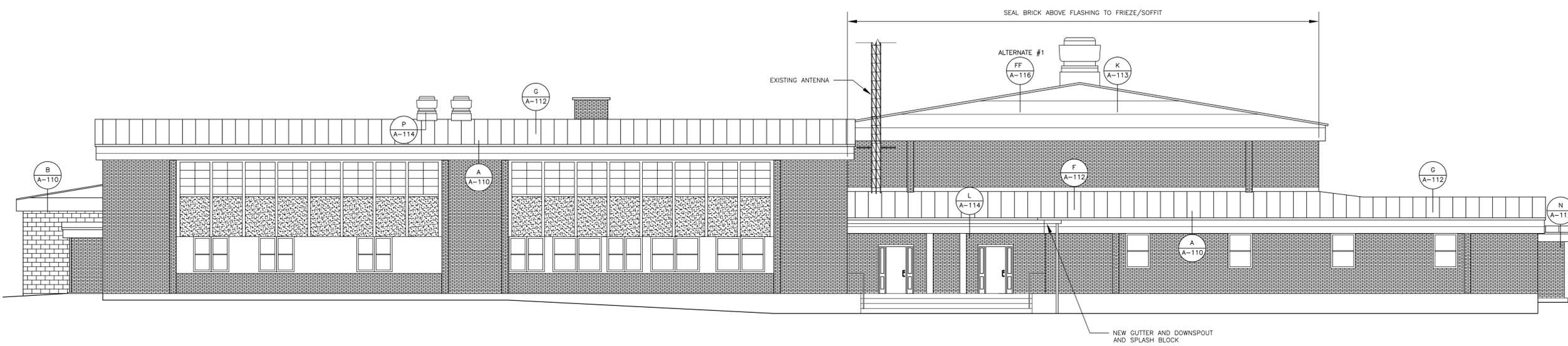
SHEET ID:
 A-108
 SHEET: 11 of 36



Rev#	Description	Date	Appr.
1	Addendum #1	3/31/16	



WEST ELEVATION - PROPOSED 1/8" = 1'-0"



SOUTH ELEVATION - PROPOSED 1/8" = 1'-0"

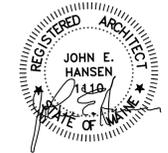
DESIGNED BY: JEH
 DRAWN BY: CMC
 CHECKED BY: MAD
 DATE: 02/02/2016
 SCALE: AS NOTED
 DFE PROJECT NO: 23SR10-461-D

STATE OF MAINE
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 Cordjia Capitol Projects Group
 John E. Hansen, Architect
 16 Canby Lane, Suite 23
 Camden, Maine 04843
 207-236-9970 / mdaigle@cordjiacpg.com

LEWISTON ARMORY
 LEWISTON, MAINE
 LEWISTON READINESS CENTER ROOF REPLACEMENT
 PROPOSED
 SOUTH & WEST ELEVATIONS

- PLAN PROGRESS
- DRAFT
 - 35% REVIEW
 - 65% REVIEW
 - 95% REVIEW
 - FINAL REVIEW
 - FOR BIDDING
 - ISSUED FOR CONSTRUCTION
 - RECORD DRAWINGS

SHEET ID:
 A-109
 SHEET: 12 OF 36





Rev#	Description	Date	Appr.
1	Addendum #1	3/31/16	

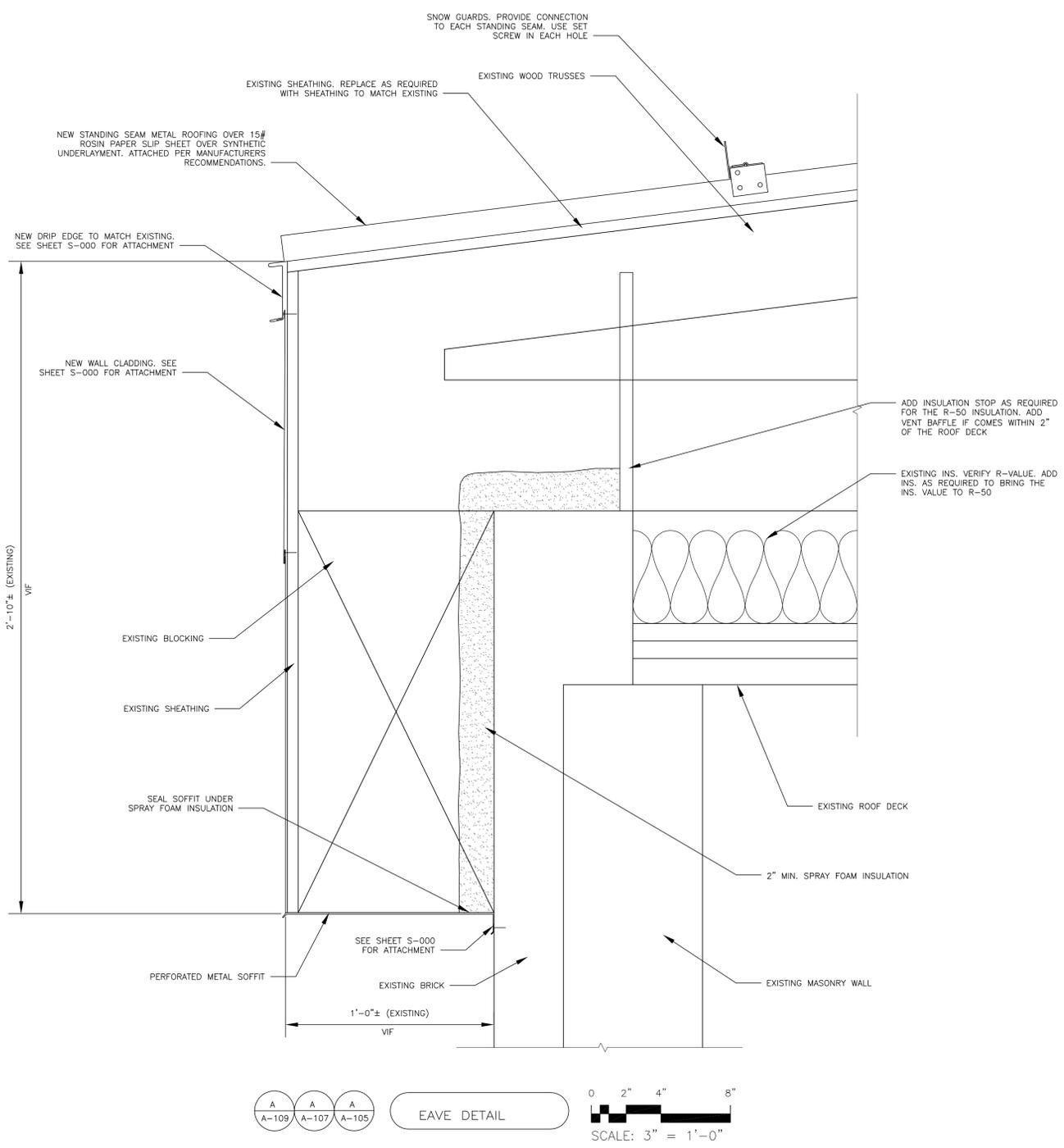
DESIGNED BY: JEH	CHECKED BY: CMC	DATE: 02/02/2016
DRAWN BY: CMC	SCALE: AS NOTED	DFE PROJECT NO: 23SR10-461-D

STATE OF MAINE
 DEPARTMENT OF DEFENSE, VETERANS
 AND EMERGENCY MANAGEMENT
 Cordjia Capitol Projects Group
 John E. Hansen, Architect
 16 Cornery Lane, Suite 23
 Portland, Maine 04843
 207-236-9970 / mdaigle@cordjia.com

LEWISTON ARMORY
 LEWISTON, MAINE
 LEWISTON READINESS CENTER ROOF REPLACEMENT
 ARCHITECTURAL DETAILS

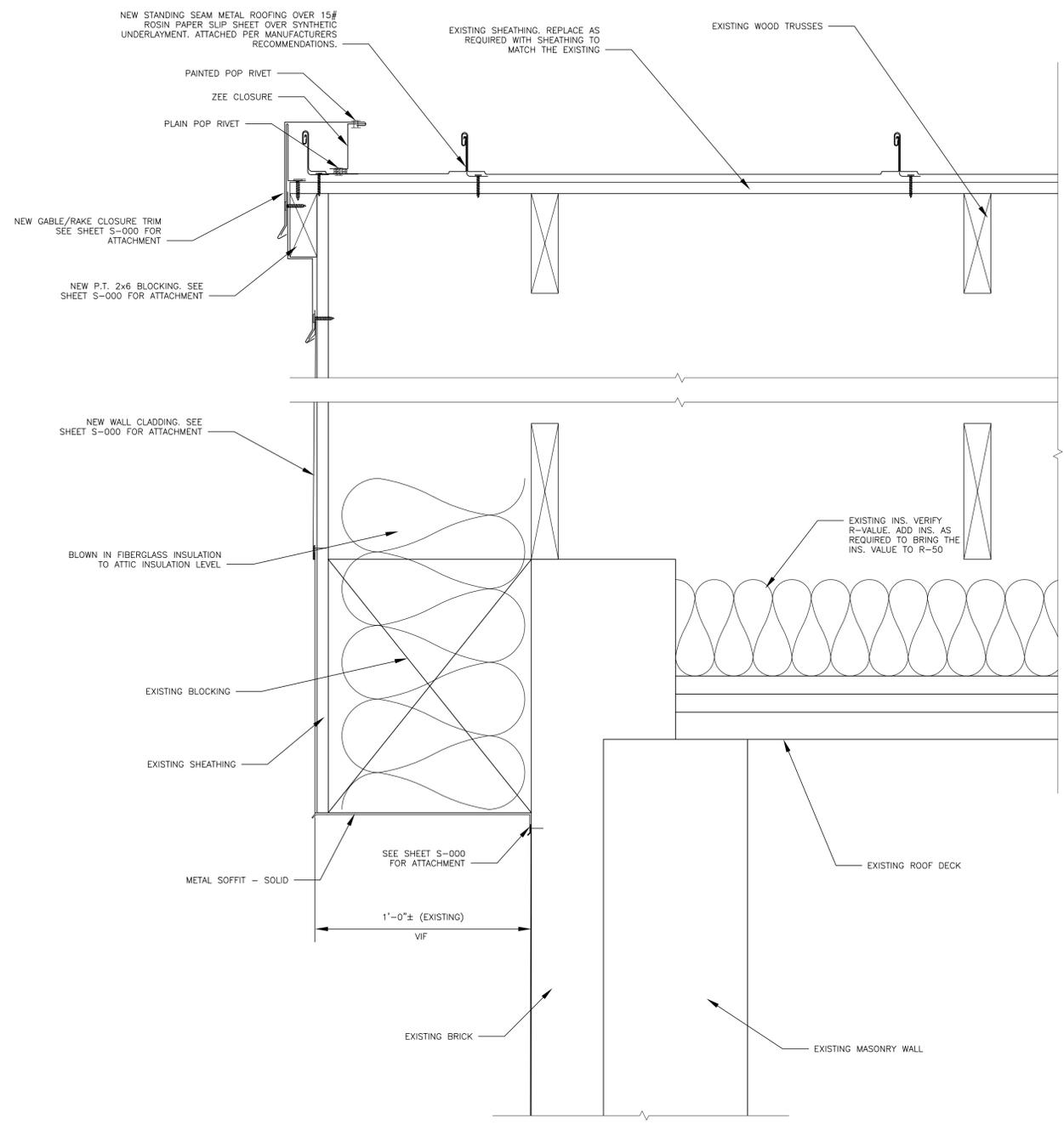
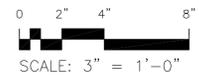
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SHEET ID:
 A-110
 SHEET: 13 OF 36



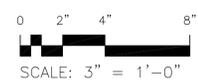
A-109 A-107 A-105

EAVE DETAIL



B-109 B-107 B-105

RAKE DETAIL





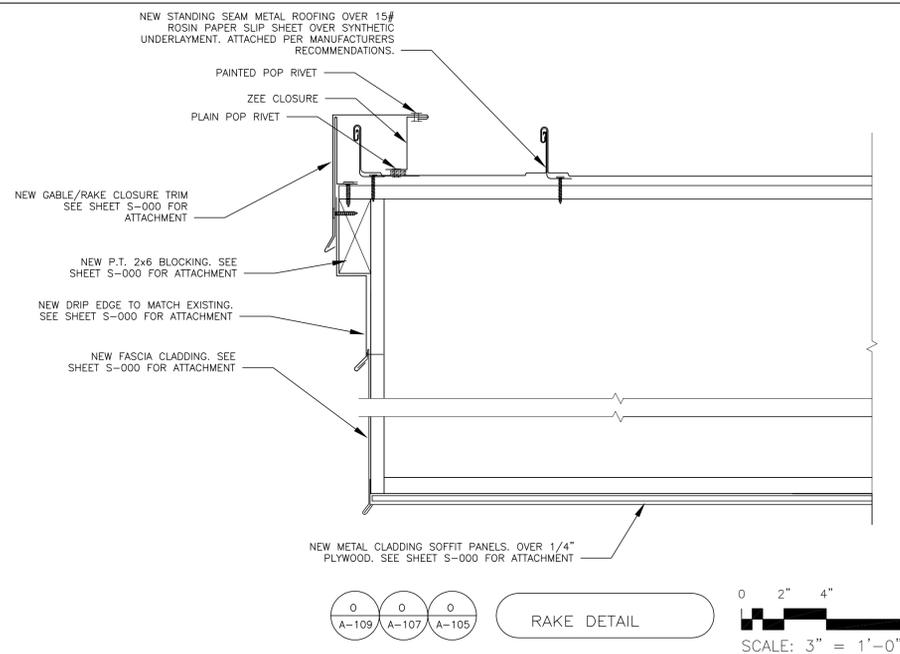
PLAN REVISIONS	
Rev#	Description
1	Addendum #1
	Date 3/31/16
	Appr.

DESIGNED BY: JEH	CHECKED BY: CMC	DATE: 02/02/2016
DRAWN BY: MAD	SCALE: AS NOTED	DFE PROJECT NO: 23SR10-461-D
STATE OF MAINE DEPARTMENT OF DEFENSE, VETERANS AND EMERGENCY MANAGEMENT Cordjia Capitol Projects Group John E. Hansen, Architect 16 Cornery Lane, Suite 23 Camden Maine 04843 207-236-9970 / mdaigle@cordjiacpg.com		

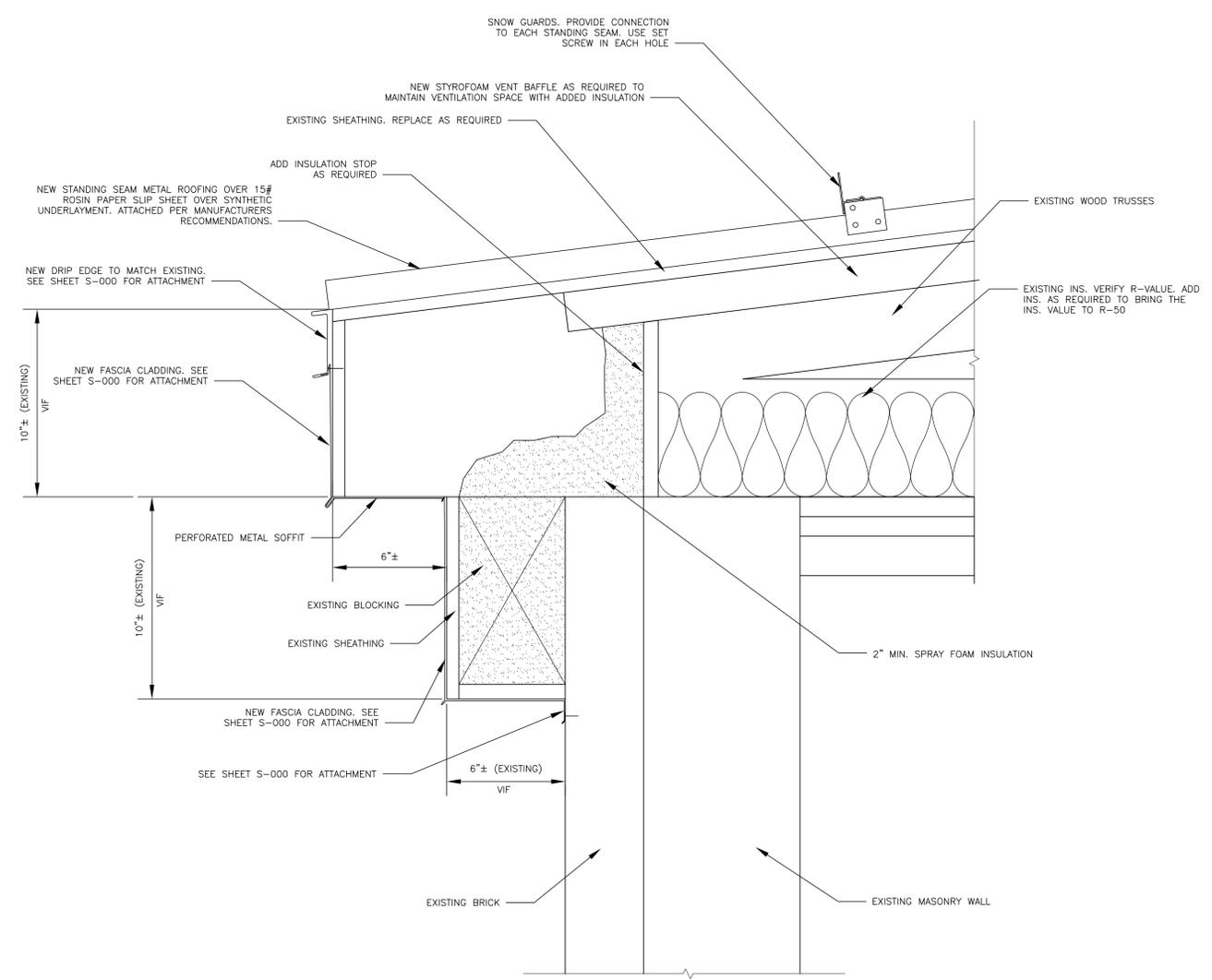
LEWISTON ARMORY
LEWISTON, MAINE
LEWISTON READINESS CENTER ROOF REPLACEMENT
ARCHITECTURAL DETAILS

PLAN PROGRESS	
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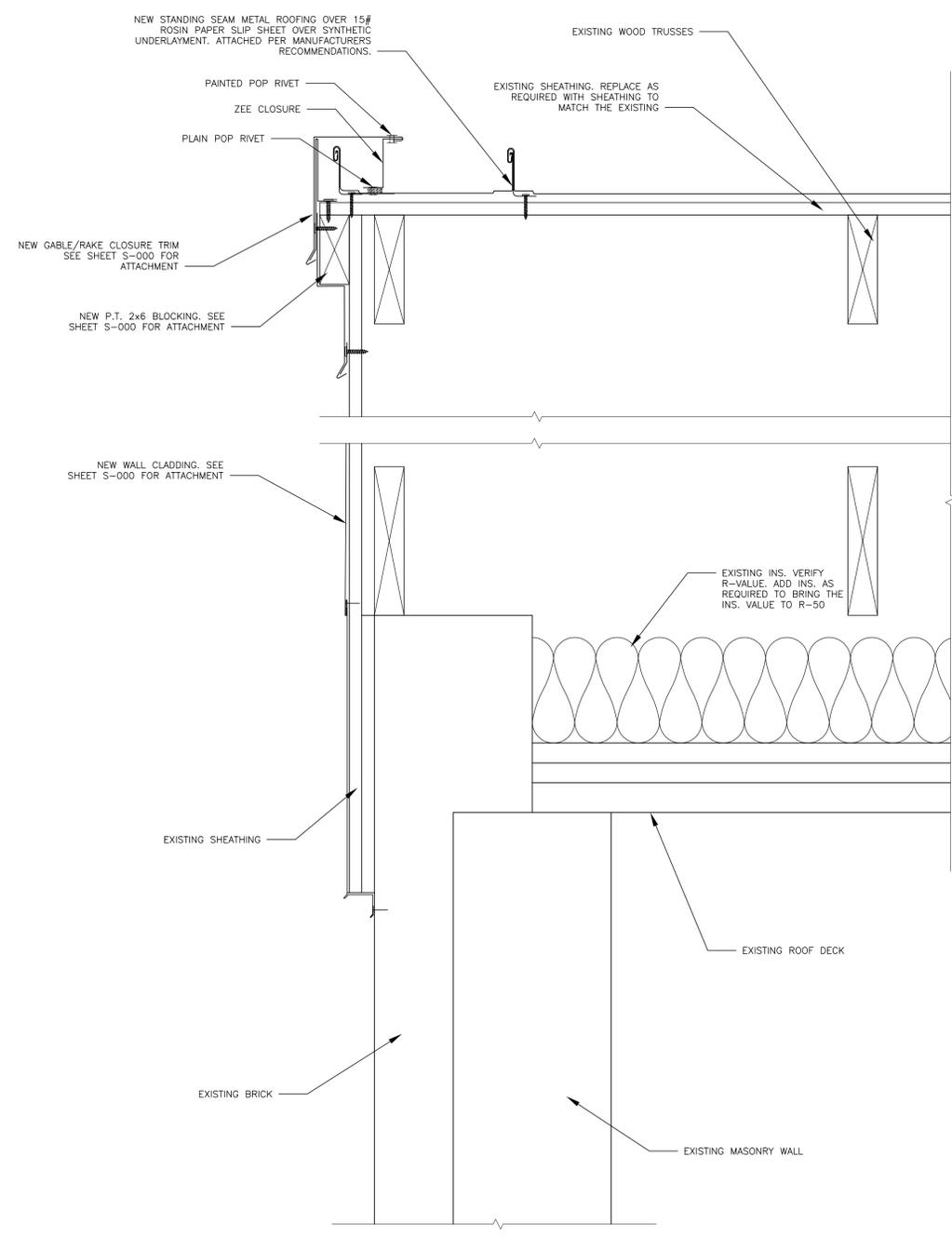
SHEET ID:
A-111
SHEET: 14 of 36



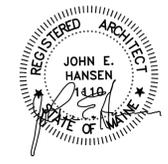
0 2" 4" 8"
SCALE: 3" = 1'-0"
RAKE DETAIL



0 2" 4" 8"
SCALE: 3" = 1'-0"
EAVE DETAIL



0 2" 4" 8"
SCALE: 3" = 1'-0"
EAVE DETAIL





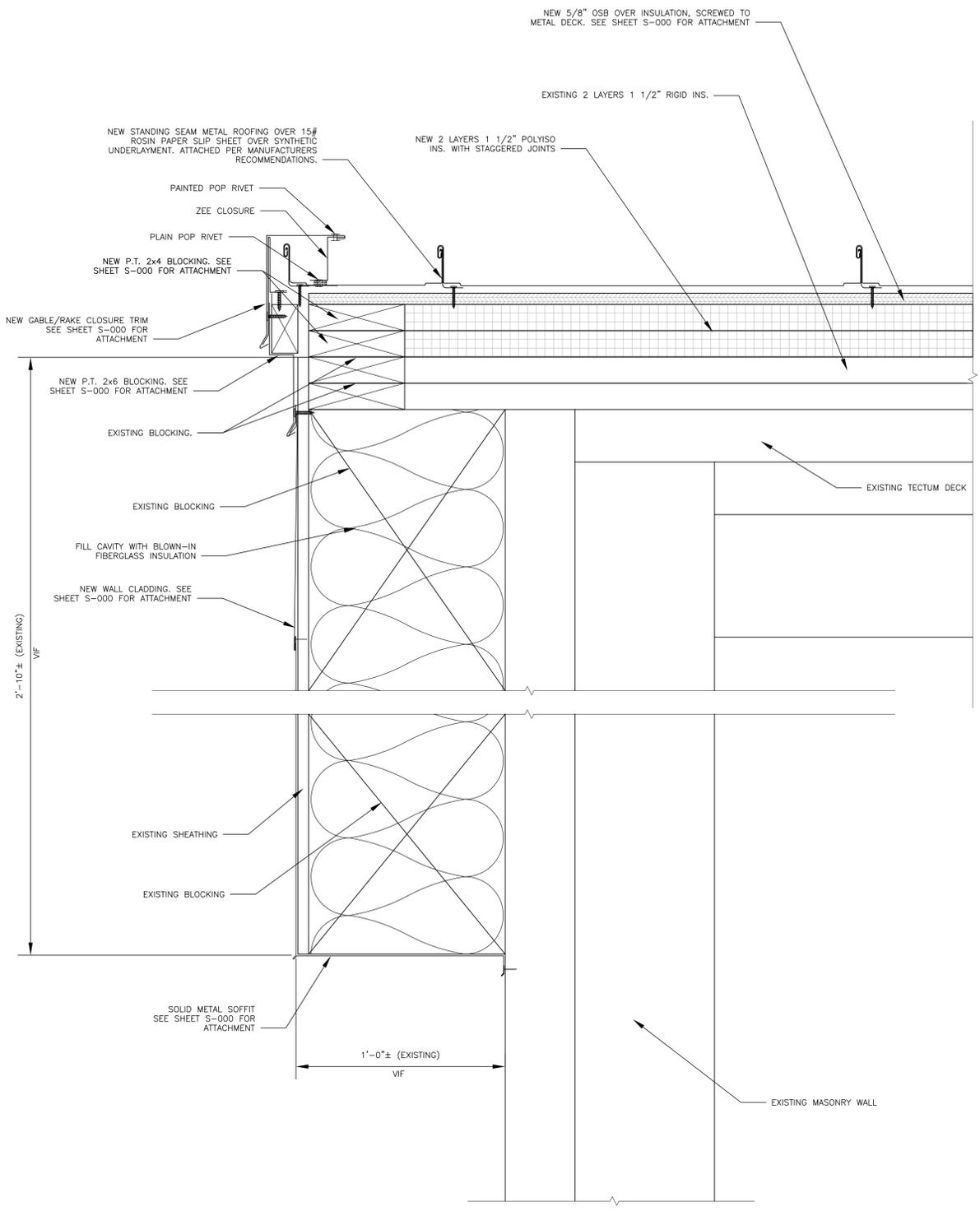
Rev#	Description	Date	Appr.
1	Addendum #1	3/31/16	

DESIGNED BY: JEH	CHECKED BY: CMC	DATE: 02/02/2016	SCALE: AS NOTED	DFE PROJECT NO: 235R10-461-D
DRAWN BY: CMC	CHECKED BY: MAD			
STATE OF MAINE DEPARTMENT OF DEFENSE, VETERANS AND EMERGENCY MANAGEMENT Cordjia Capitol Projects Group John E. Hansen, Architect 16 Tannery Lane, Suite 23 Camden, Maine 04843 207-236-9970 / mdaigle@cordjiacpg.com				

LEWISTON ARMORY
LEWISTON, MAINE
LEWISTON READINESS CENTER ROOF REPLACEMENT
ARCHITECTURAL DETAILS

PLAN PROGRESS	
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<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:
A-113
SHEET: 16 OF 36

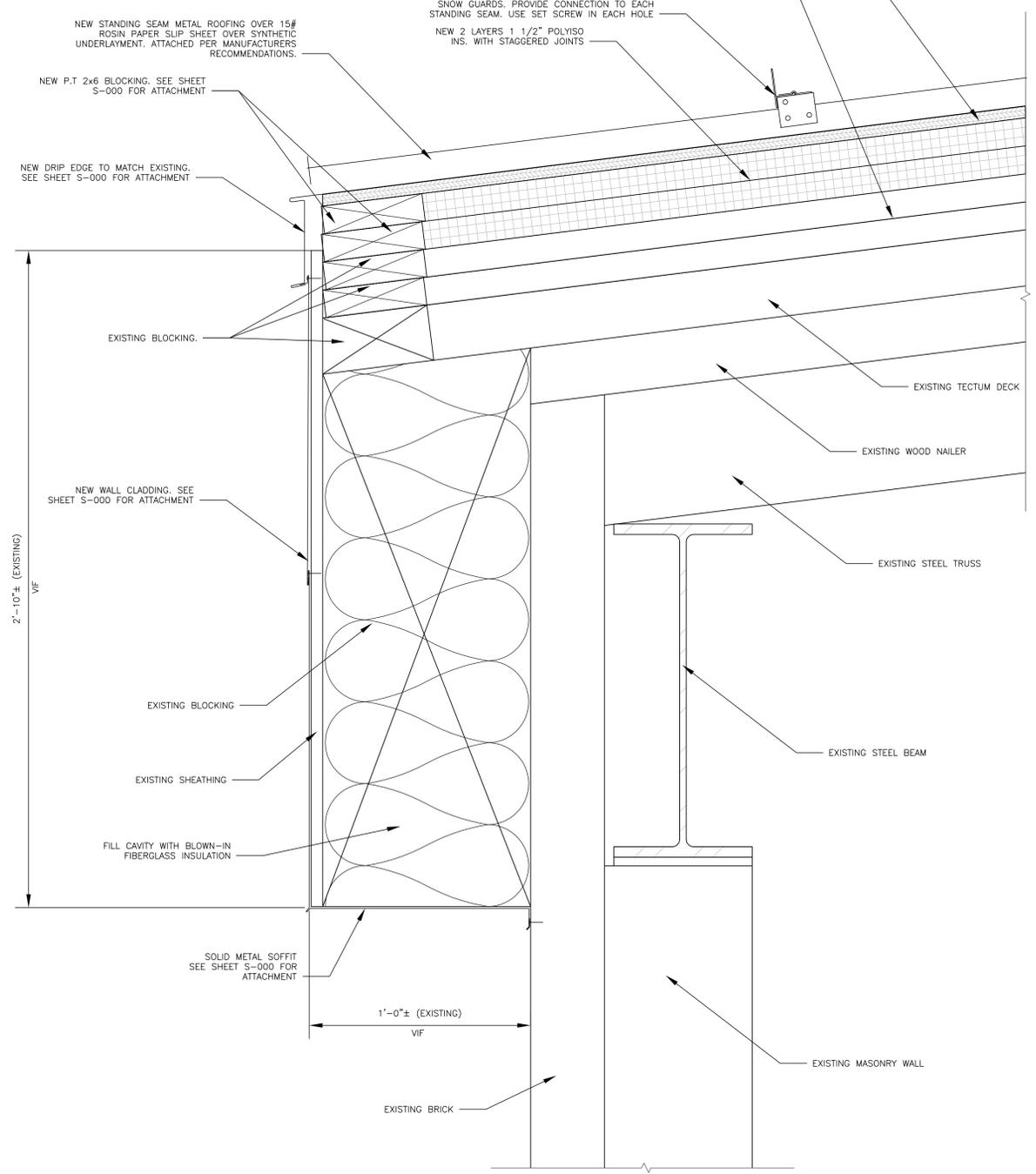
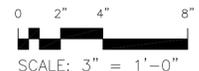


K
A-109

K
A-107

K
A-105

RAKE DETAIL



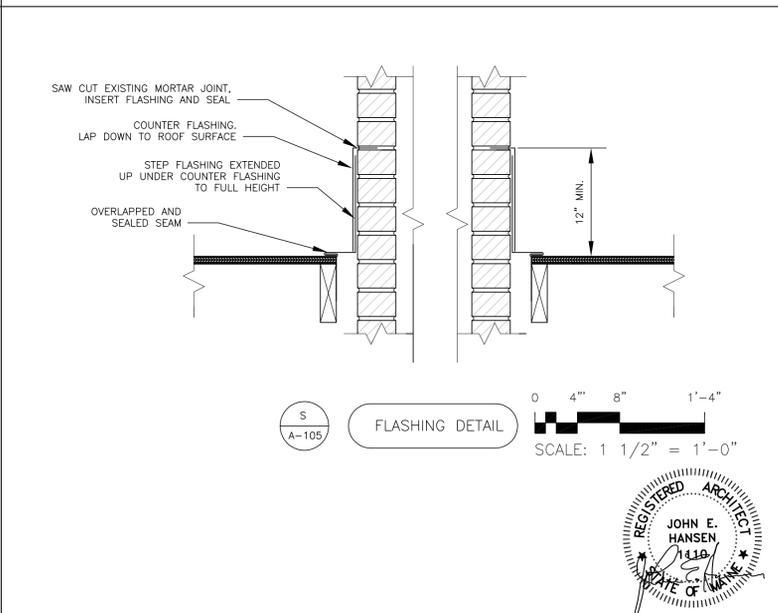
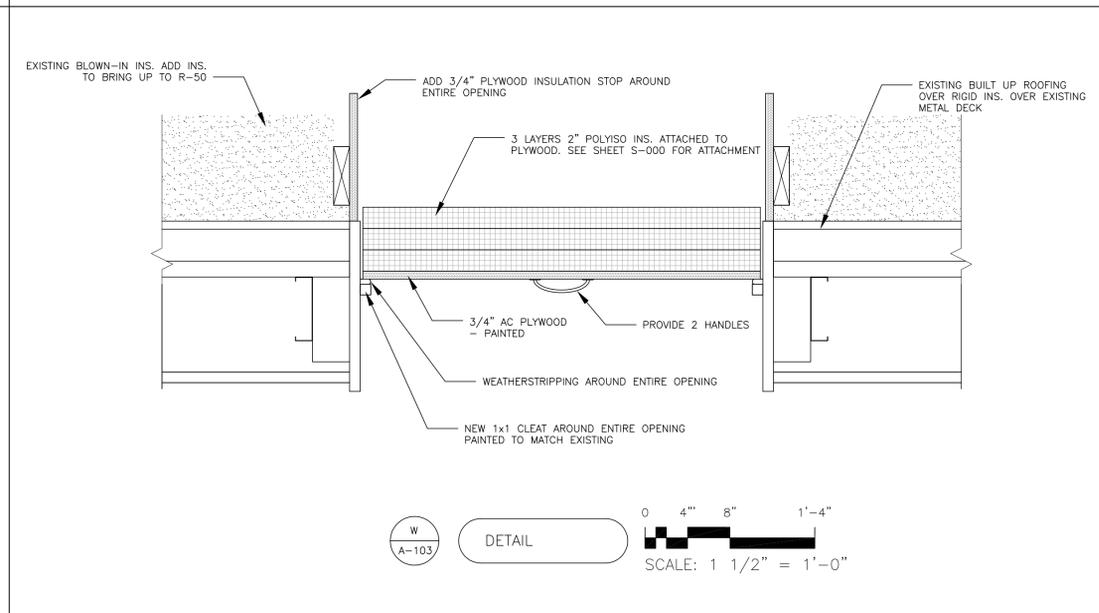
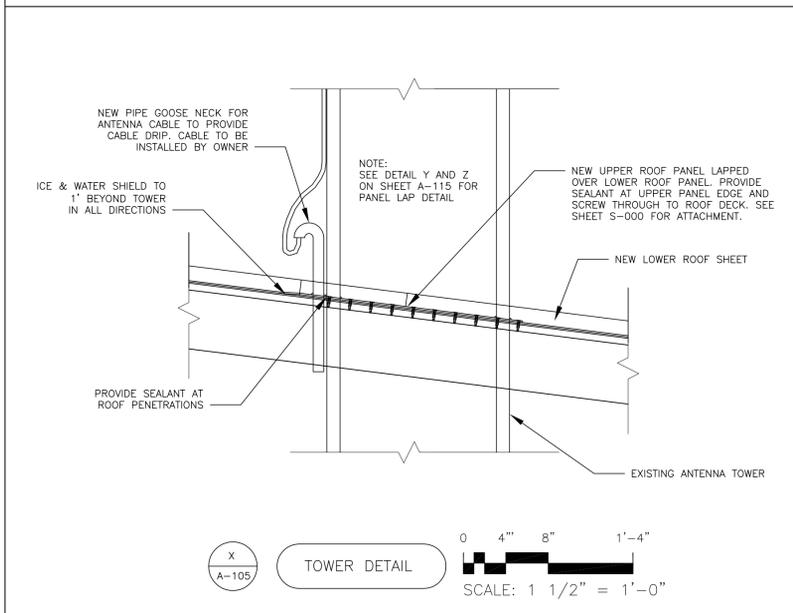
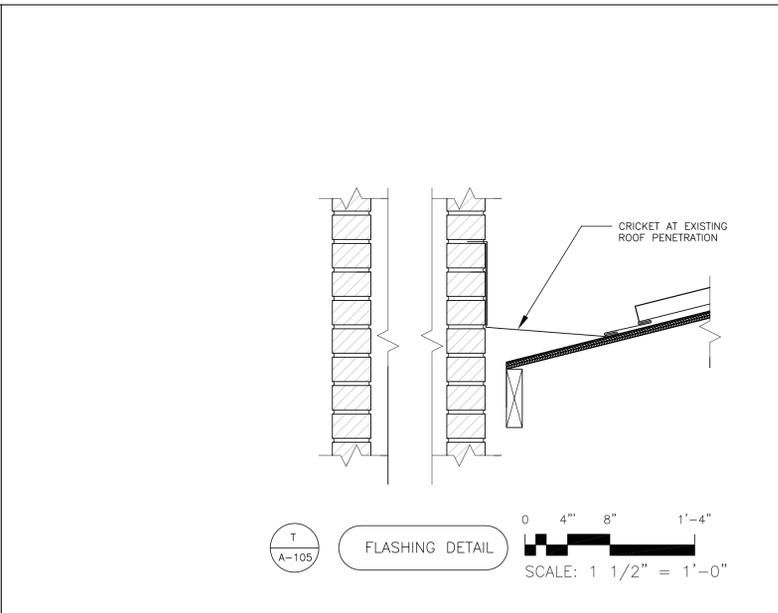
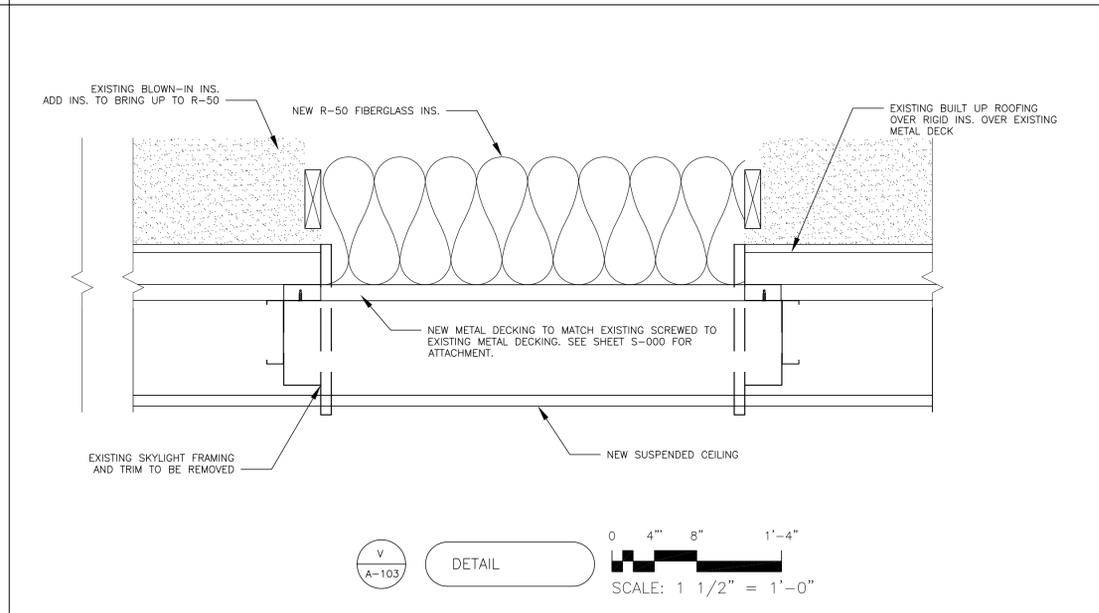
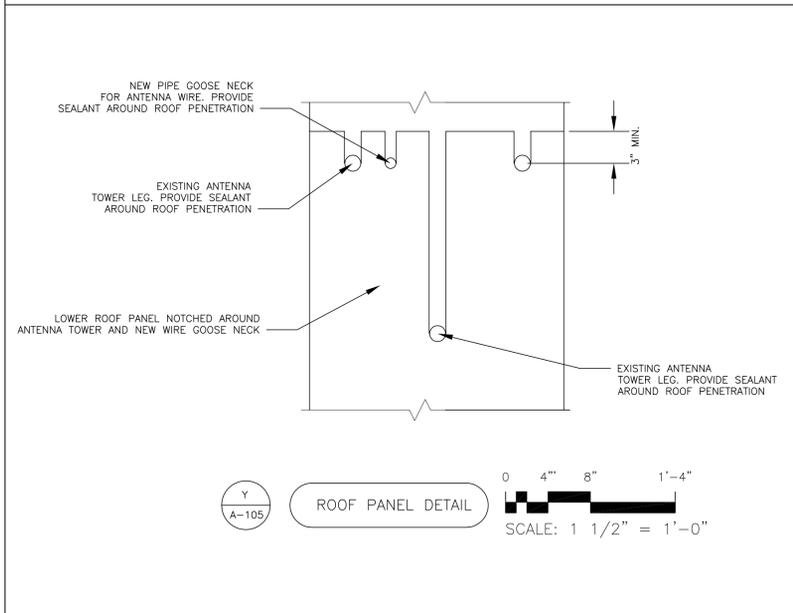
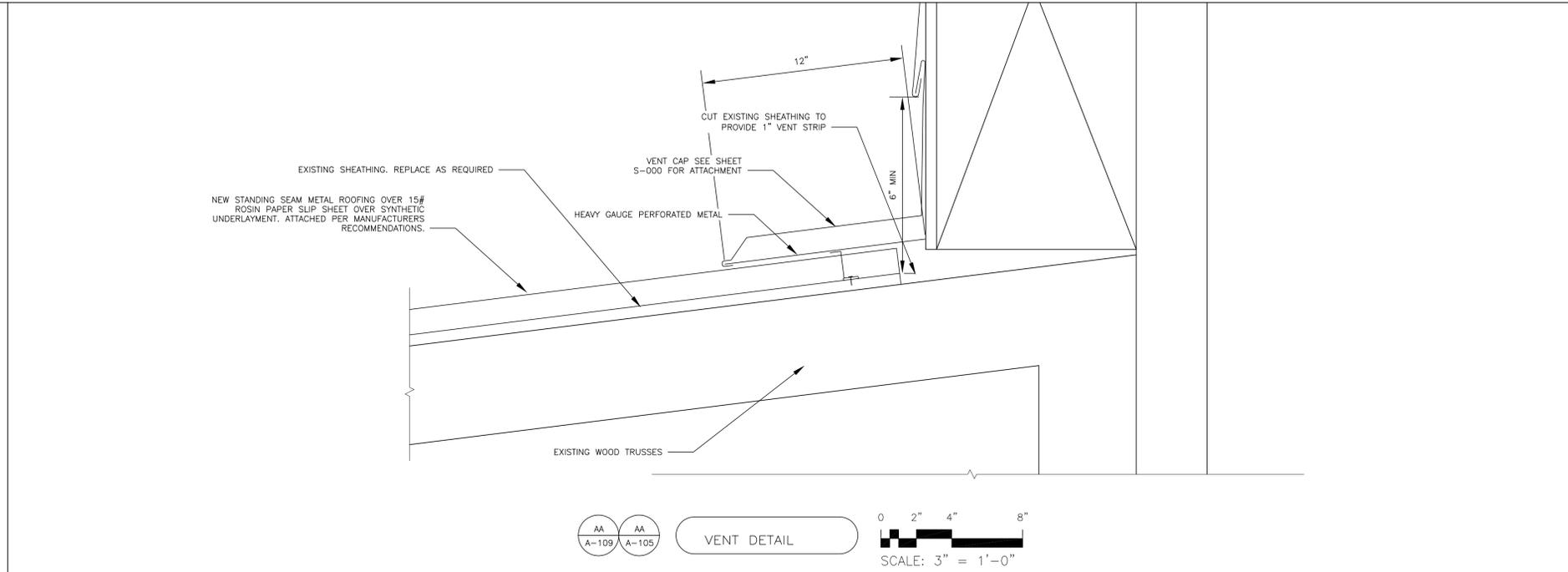
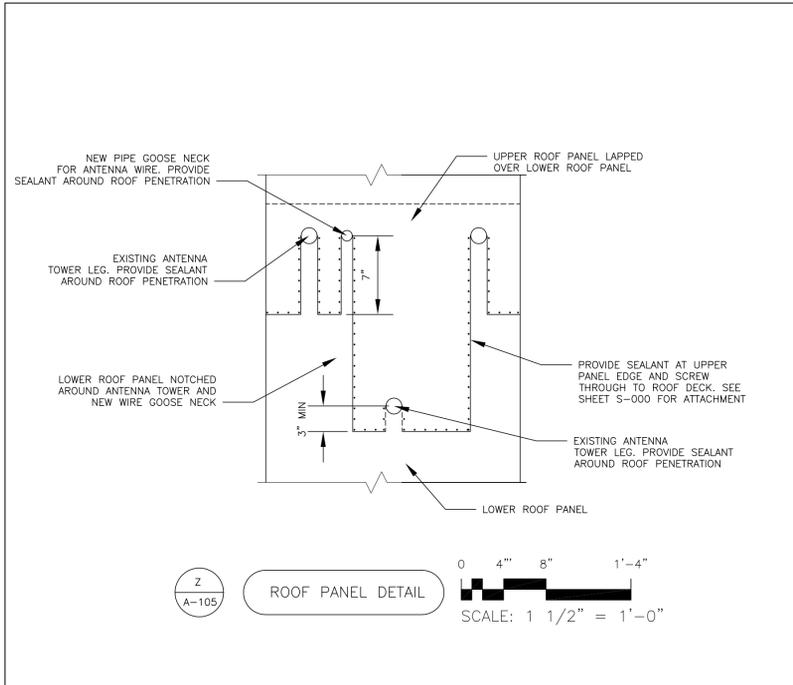
J
A-109

J
A-107

J
A-105

EAVE DETAIL





Rev#	Description	Date	Appr.
1	Addendum #1	3/31/16	

DESIGNED BY: JEH
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STATE OF MAINE
 DEPARTMENT OF DEFENSE, VETERANS
 AND EMERGENCY MANAGEMENT

Cordjia Capitol Projects Group
 John E. Hansen, Architect
 16 Cornery Lane, Suite 23
 04843
 207-236-9970 / mdaigle@cordjiacpg.com

LEWISTON ARMORY
 LEWISTON, MAINE
 LEWISTON READINESS CENTER ROOF REPLACEMENT

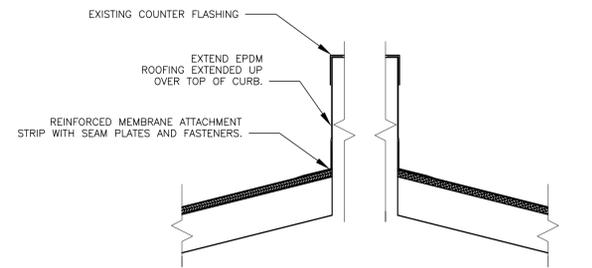
ARCHITECTURAL DETAILS

PLAN PROGRESS

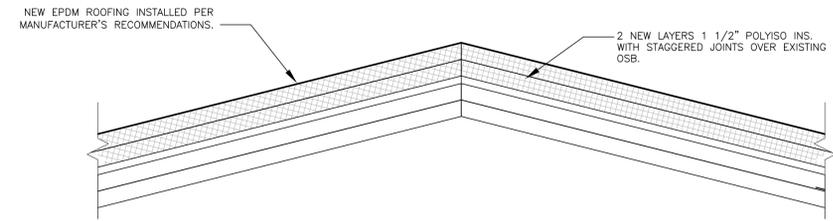
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<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:
 A-115
 SHEET: 18 of 36

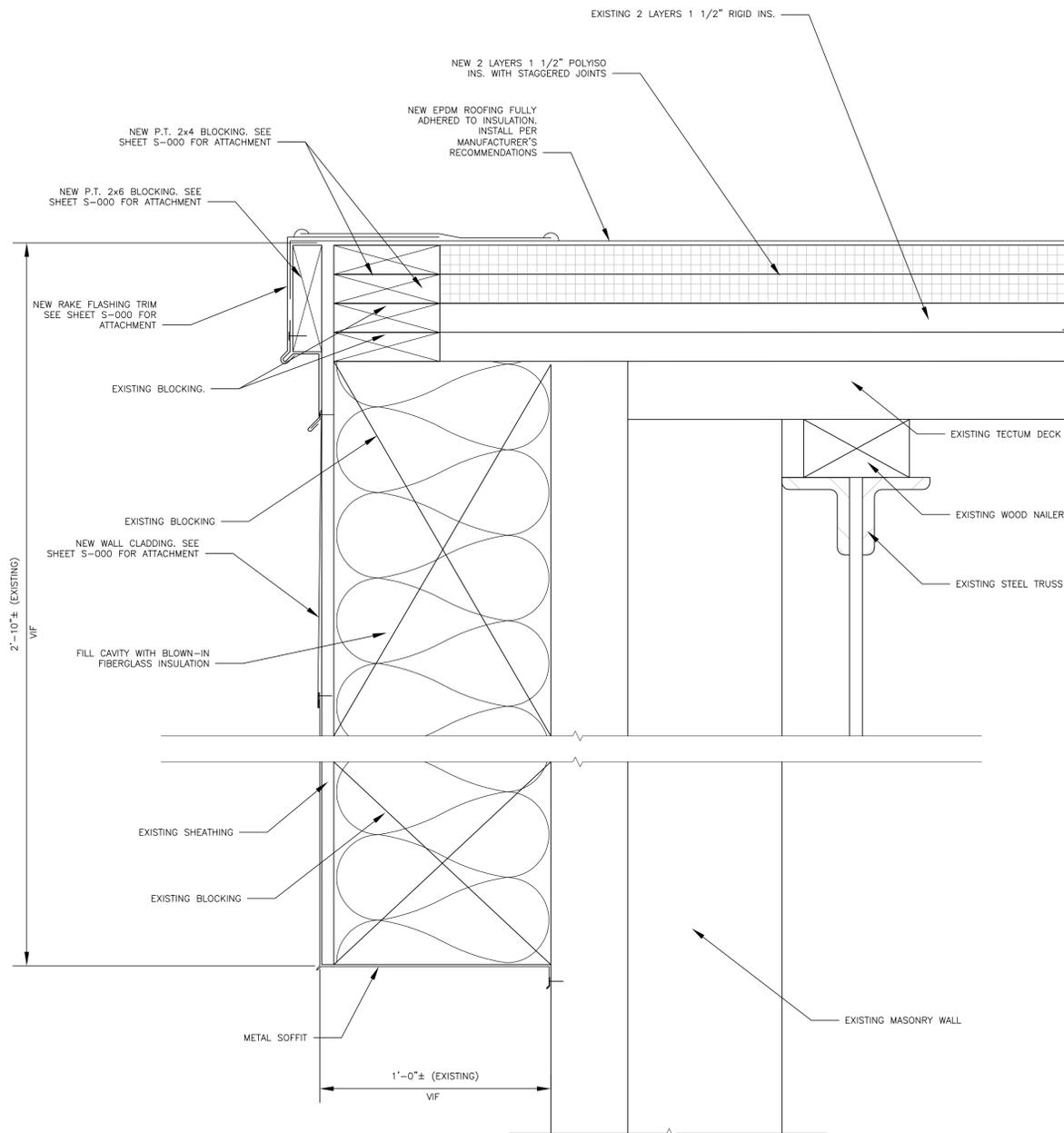




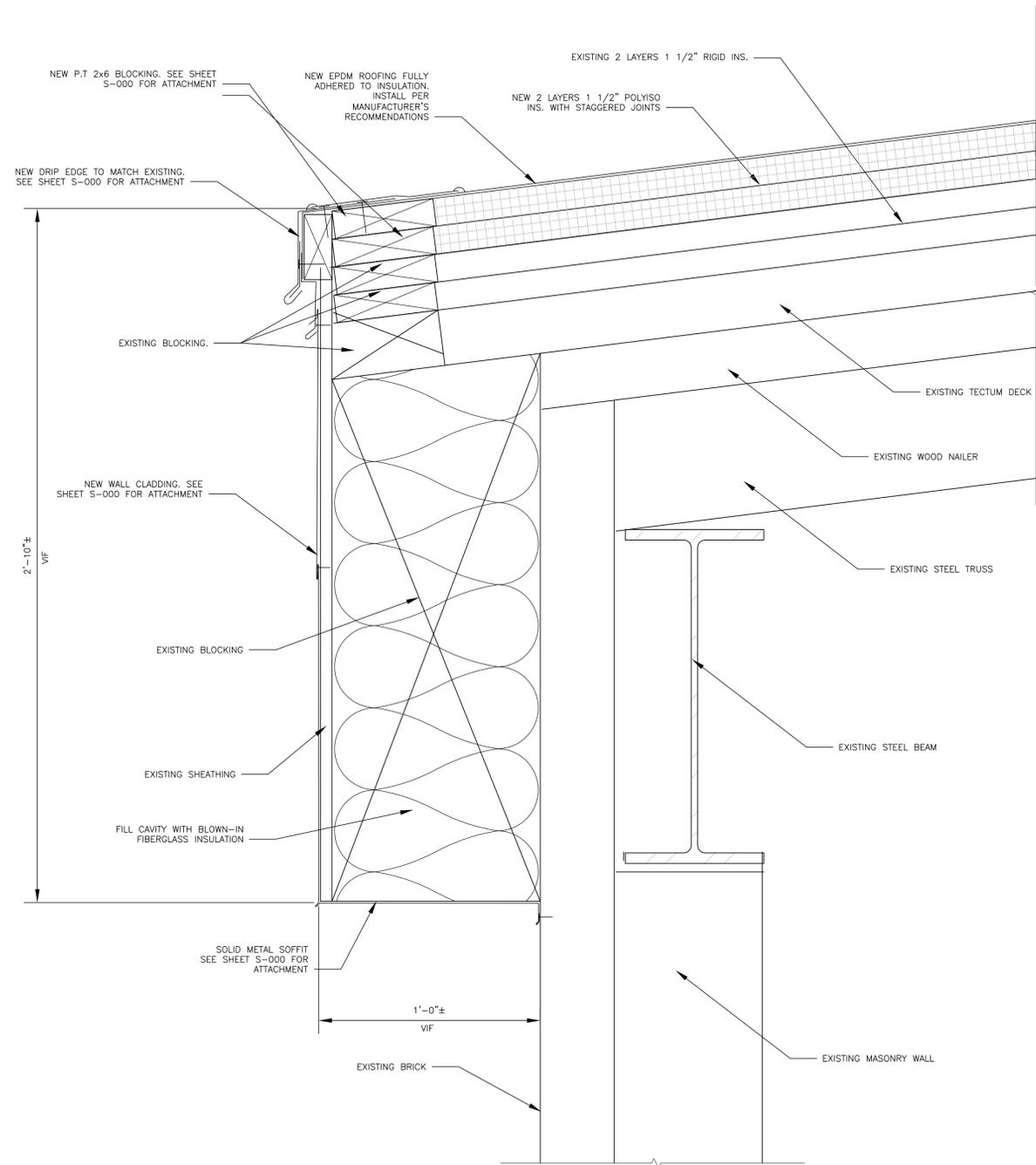
ALTERNATE #1
 GG A-109 GG A-107 GG A-105
CURB FLASHING
 0 4" 8" 1'-4"
 SCALE: 1 1/2" = 1'-0"



ALTERNATE #1
 EE A-109 EE A-107 EE A-105
RIDGE DETAIL
 0 4" 8" 1'-4"
 SCALE: 1 1/2" = 1'-0"



ALTERNATE #1
 FF A-109 FF A-107 FF A-105
RAKE DETAIL
 0 2" 4" 8"
 SCALE: 3" = 1'-0"



ALTERNATE #1
 DD A-109 DD A-107 DD A-105
EAVE DETAIL
 0 2" 4" 8"
 SCALE: 3" = 1'-0"



Rev#	Date	Description
1	3/31/16	Addendum #1

DESIGNED BY: JEH
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STATE OF MAINE
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 Cordja Capitol Projects Group
 John E. Hansen, Architect
 16 Tanner Lane, Suite 23
 Camden, Maine 04843
 207-236-9970 / mdaigle@cordjagroup.com

LEWISTON ARMY
 LEWISTON, MAINE
 LEWISTON READINESS CENTER ROOF REPLACEMENT
 ALTERNATE 1
 ARCHITECTURAL DETAILS

PLAN PROGRESS

<input type="checkbox"/>	DRAFT
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<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:
 A-116
 SHEET: 19 of 36



GENERAL NOTES:

- 1. THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO STRUCTURAL NOTES. INCONSISTENCIES BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER AND ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND MECHANICAL, ELECTRICAL, PLUMBING, & SITE DRAWINGS AS APPLICABLE. NOTIFY THE ENGINEER AND PROJECT MANAGER IF THE CONDITIONS IN FIELD ARE DIFFERENT THAN IS SHOWN ON THE STRUCTURAL DRAWINGS.
3. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER AND ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
4. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE ONLY AFTER THE STRUCTURAL WORK CONTAINED IN THE DRAWINGS IS COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS. CONTRACTOR WILL PROVIDE NECESSARY SHORING PLAN APPROVED BY A LICENSED ENGINEER. SHORING MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
5. SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS.
6. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK, INCLUDING DESCRIPTION OF SHORING, AND CONSTRUCTION METHODS AND SEQUENCING WHERE APPLICABLE. NO PERFORMANCE OF THE WORK, SHALL COMMENCE WITHOUT REVIEW AND APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER AND PROJECT MANAGER.
7. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
8. THE CONTRACTOR WILL PROVIDE REMOVAL OF LEAD BASE PAINT AND ASBESTOS MATERIALS AS NECESSARY AT THE CONSTRUCTION AFFECTED AREAS.

DESIGN LOADING:

Table with 2 columns: Loading Type and Value. Includes SNOW LOADS (GROUND SNOW LOAD, EXPOSURE FACTOR, THERMAL FACTOR, IMPORTANCE FACTOR, ROOF SNOW LOAD), WIND LOADS (BASIC WIND SPEED, EXPOSURE FACTOR, IMPORTANCE FACTOR), SEISMIC LOADS (SITE CLASSIFICATION, SEISMIC DESIGN CATEGORY, IMPORTANCE FACTOR, OCCUPANCY FACTOR, 0.2 SEC. SPECTRAL RESPONSE, 1 SEC. SPECTRAL RESPONSE), and SEISMIC RESISTING SYSTEM (UNREINFORCED MASONRY SHEAR WALLS AND STEEL FRAME RESPONSE MODIFICATION FACTOR, SEISMIC RESPONSE COEFFICIENT).

STRUCTURAL STEEL NOTES:

- 1. STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC'S "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL" 13th EDITION.
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
a. WIDE FLANGE SHAPES: ASTM A992
b. PLATES AND OTHER SHAPES: ASTM A36
c. SQUARE & RECTANGULAR TUBING: ASTM A500, GR. B
d. ANCHOR RODS: ASTM F1554, GR.36 OR A307
e. HEAVY HEX NUTS: ASTM A563
f. WASHERS: ASTM F436
3. FIELD CONNECTIONS SHALL BE BOLTED USING ASTM A325 OR A490 HIGH STRENGTH BOLTS, UNLESS NOTED OTHERWISE.
4. ALL BOLTS AND ANCHOR RODS SHALL HAVE A HARDENED WASHER AND HEAVY HEX NUT.
5. WELDING SHALL CONFORM TO AWS D1.1. USE E70XX WELDING ELECTRODES COMPLYING WITH AWS REQUIREMENTS.
6. STEEL MEMBERS SHALL BE CUT FROM FULL LENGTH STOCK. UNAUTHORIZED SPLICES SHALL BE CAUSE FOR REJECTION
7. STRUCTURAL STEEL SHALL BE PRIMED WITH A RUST INHIBITIVE PRIMER.
8. ANY DISTURBED GALVANIZED STEEL FINISH IS TO BE RE-PAINTED WITH ZINC RICH PAINT (APPROVED BY ENGINEER) WITH MINIMUM COAT THICKNESS OF 2 MILS.
9. ANCHOR RODS, BOLTS, NUTS AND WASHERS EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.
10. SUBMIT COMPLETE SHOP DRAWINGS FOR ENGINEER AND PROJECT MANAGER REVIEW PRIOR TO FABRICATION.

OPEN WEB STEEL JOIST NOTES: (AS APPLICABLE)

- 1. DESIGN, FABRICATION, ERECTION OR REPAIR OF OPEN WEB STEEL JOISTS SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL JOIST INSTITUTE'S "STANDARD SPECIFICATIONS, LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS."
2. ITEMS ATTACHED TO THE STEEL JOISTS SHALL BE CONNECTED AT THE PANEL POINTS OR SEAT OF THE JOIST, OR AN ADDITIONAL WEB MEMBER SHALL BE ADDED TO THE JOISTS.
3. STEEL JOISTS SHALL BE RE-PAINTED WITH A SHOP APPLIED COAT OF THE MANUFACTURERS RUST INHIBITIVE PRIMER IF THE ORIGINAL PAINT COAT IS DAMAGED.
4. ANY JOISTS MODIFICATION SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MAINE.
5. SUBMIT COMPLETE SHOP AND ERECTION DRAWINGS FOR REVIEW BY THE ENGINEER AND PROJECT MANAGER PRIOR TO FABRICATION.

CONCRETE MASONRY NOTES:

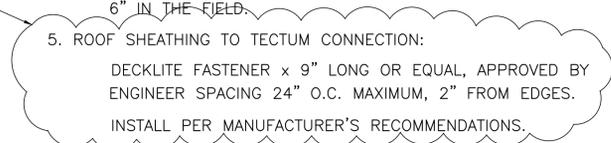
- 1. CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE NATIONAL CONCRETE MASONRY ASSOCIATION "SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY" (TR758), "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530-08/ASCE 5-08/TMS 402-08), AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1-08/ASCE 6-08/TMS 602-08).
2. COMPRESSIVE STRENGTH SHALL BE Fm = 2000 PSI MINIMUM (UNIT STRENGTH METHOD).
3. MORTAR SHALL BE TYPE N.
4. GROUT SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
5. GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C4 76 UNLESS OTHERWISE NOTED.
6. REINFORCING STEEL (AS APPLICABLE) SHALL BE AS FOLLOWS:
a. DEFORMED BARS: ASTM A615 GR 60 UNCOATED
b. JOINT REINFORCEMENT: ASTM A82 WITH DEFORMED LONGITUDINAL WIRES; HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153
7. MASONRY PROTECTION AND CONSTRUCTION WILL COMPLY WITH COLD AND HOT WEATHER CONDITIONS REQUIRED BY ACI 530.1 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.

FASTENER NOTES:

ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD NEED TO BE STAINLESS STEEL MATERIAL OR MEET ASTM INTERNATIONAL A153 STANDARD SPECIFICATION FOR ZINC COATING (HOT DIP) ON IRON AND STEEL HARDWARE AND ASTM A653, STANDARD SPECIFICATION FOR STEEL SHEET ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOYCOATED (GALVANNEALED)BY THE HOT-DIP PROCESS.

- 1. GENERAL CONNECTIONS (MINIMUM UNLESS NOTED OTHERWISE):
a. SHEET METAL FLASHINGS AND WOOD BLOCKING TO WOOD SUBSTRATE: #10 STAR DRIVE HEAD WOOD SCREW OF LENGTH ADEQUATE FOR CONNECTION.
b. SHEET METAL FLASHINGS AND WOOD BLOCKING TO MASONRY SUBSTRATE: 3/16" DIAMETER TAPCON FLAT HEAD (BLUE CLIMASEAL) OR EQUAL @ 16" O.C. AND 3" FROM EDGES AND OF LENGTH ADEQUATE FOR CONNECTION.
2. WOOD PLATE TO CONCRETE BLOCK OR CONCRETE:
HILTI KWIK BOLT 3 1/2" DIAMETER, 3.5" EMBEDMENT MIN. @ 24" O.C. AND 3" FROM CONCRETE EDGES AND OF LENGTH ADEQUATE FOR CONNECTION, OR EQUAL, APPROVED BY ENGINEER.
3. STRUCTURAL STEEL TO CONCRETE OR CONCRETE BLOCKS:
HILTI HLC SLEEVE ANCHOR 5/8" FOR 1/2" DIAMETER BOLT OF LENGTH ADEQUATE FOR CONNECTION, OR EQUAL APPROVED BY ENGINEER. BOLT SPACING AS IS SPECIFIED ON DRAWINGS.
4. SHEATHING TO ROOF WOOD TRUSSES OR RAFTERS CONNECTION:
8d-2 1/2" DEFORMED SHANK, NAILS SPACED 4" O.C. AT EDGES AND 6" IN THE FIELD.
5. ROOF SHEATHING TO TECTUM CONNECTION:
DECKLITE FASTENER x 9" LONG OR EQUAL, APPROVED BY ENGINEER SPACING 24" O.C. MAXIMUM, 2" FROM EDGES.
INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
6. CLADDING CONNECTION TO ANY SUBSTRATE:
CONNECTION PER MANUFACTURER'S RECOMMENDATION
7. NEW BOLT CONNECTION:
ALL NEW BOLTED CONNECTION ARE TO BE TIGHTENED TO A MINIMUM OF FOLLOWING MOMENTS (FT-POUNDS):
1/4" DIAMETER 4 FT-LB
1/2" DIAMETER 13 FT-LB
3/8" DIAMETER 32 FT-LB
3/4" DIAMETER 56 FT-LB
OR AS IS RECOMMENDED PER MANUFACTURER.

REV. 1



ABBREVIATIONS:

Table with 2 columns: Abbreviation and Full Name. Includes A.B. ANCHOR BOLT, ADMIN. ADMINISTRATIVE, ALT. ALTERNATIVE, @ AT, & AND, BLDG BUILDING, BRG BEARING, CONC. CONCRETE, C.P. COMPLETE PENETRATION, CONT. CONTINUOUS, DEMO DEMOLITION, DIA DIAMETER, DRWG. DRAWING, DRWGS. DRAWINGS, ELEV. ELEVATION, ELEC. ELECTRIC, EL. ELEVATION, EMBED. EMBEDMENT, EQUIP. EQUIPMENT, EXIST. EXISTING, EXT. EXTERIOR, E.W. EACH WAY, F.F. FINISH FLOOR, FTG. FOOTING, GALV. HOT DIPPED GALVANIZED, IN INCHES, MAX. MAXIMUM, MIN. MINIMUM, N/A NOT APPLICABLE, N.T.S. NOT TO SCALE, O.C. DISTANCE CENTER TO CENTER, O.S.H.A. OCCUPATIONAL SAFETY AND HEALTH ADMIN., PROJ. PROJECTION (ANCHOR PROJECTION), PVC POLYVINYL CHLORIDE, REBAR REINFORCING BARS PER ASTM 615 GR. 60, SIM. SIMILAR, SHT. SHEET, SQ. SQUARE, THK. THICK, T.O. TOP OF, T.O.C. TOP OF CONCRETE, TYP. TYPICAL, V.I.F. VERIFY IN FIELD, W/ WITH

CONCRETE NOTES:

- 1. CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)," AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301)." GENERAL CONTRACTOR SHALL HAVE AVAILABLE ON SITE AT ALL TIMES A COPY OF ACI "FIELD REFERENCE MANUAL SP-15".
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C 150 TYPE I OR II. AGGREGATES SHALL CONFORM TO ASTM C33 CLASS 3S.
3. READY-MIX CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C94, AND AS SPECIFIED HEREIN. PROVIDE BATCH TICKET FOR EACH BATCH DISCHARGED AND USED IN WORK, INDICATING PROJECT NAME, MIX TYPE, MIX TIME, BATCH QUANTITY, AND PROPORTIONS OF INGREDIENTS.
4. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315, LATEST EDITION. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED.
5. CONCRETE MIX DESIGN
a. STRENGTH: 4,500 PSI @28 DAYS FOR STRUCTURAL CONCRETE. (NON-STRUCTURAL SITE CONCRETE TO HAVE COMPRESSIVE: STRENGTH OF 3000 PSI AND MAX. WATER RATIO OF 0.55) SLUMP=4"
b. AGGREGATE: 3/4" INCH NOMINAL MAXIMUM
c. WATER-CEMENT RATIO: 0.45 MAXIMUM
d. ENTRAINED AIR: 6% ± 1~% FOR CONCRETE EXPOSED TO WEATHER OR SOIL. MAXIMUM 3% ENTRAPPED AIR OTHERWISE
6. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN SUBGRADE.
7. EXPOSED CONCRETE SHALL HAVE A SMOOTH FORM FINISH AS DEFINED BY THE CURRENT EDITION OF ACI-301.
8. COMPLETE SHOP DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR REVIEW.
9. USE ONLY SMOOTH CONCRETE FORMS, NO EARTHEN FORMS PERMITTED.
10. PROVIDE COLD OR HOT WEATHER PROTECTION AS IS REQUIRED BY ACI 318.



Table for PLAN REVISIONS with columns: No., Description, Date, Appr.

Table with columns: DESIGNED BY, DRAWN BY, CHECKED BY, DATE, SCALE, DFE PROJECT NO.

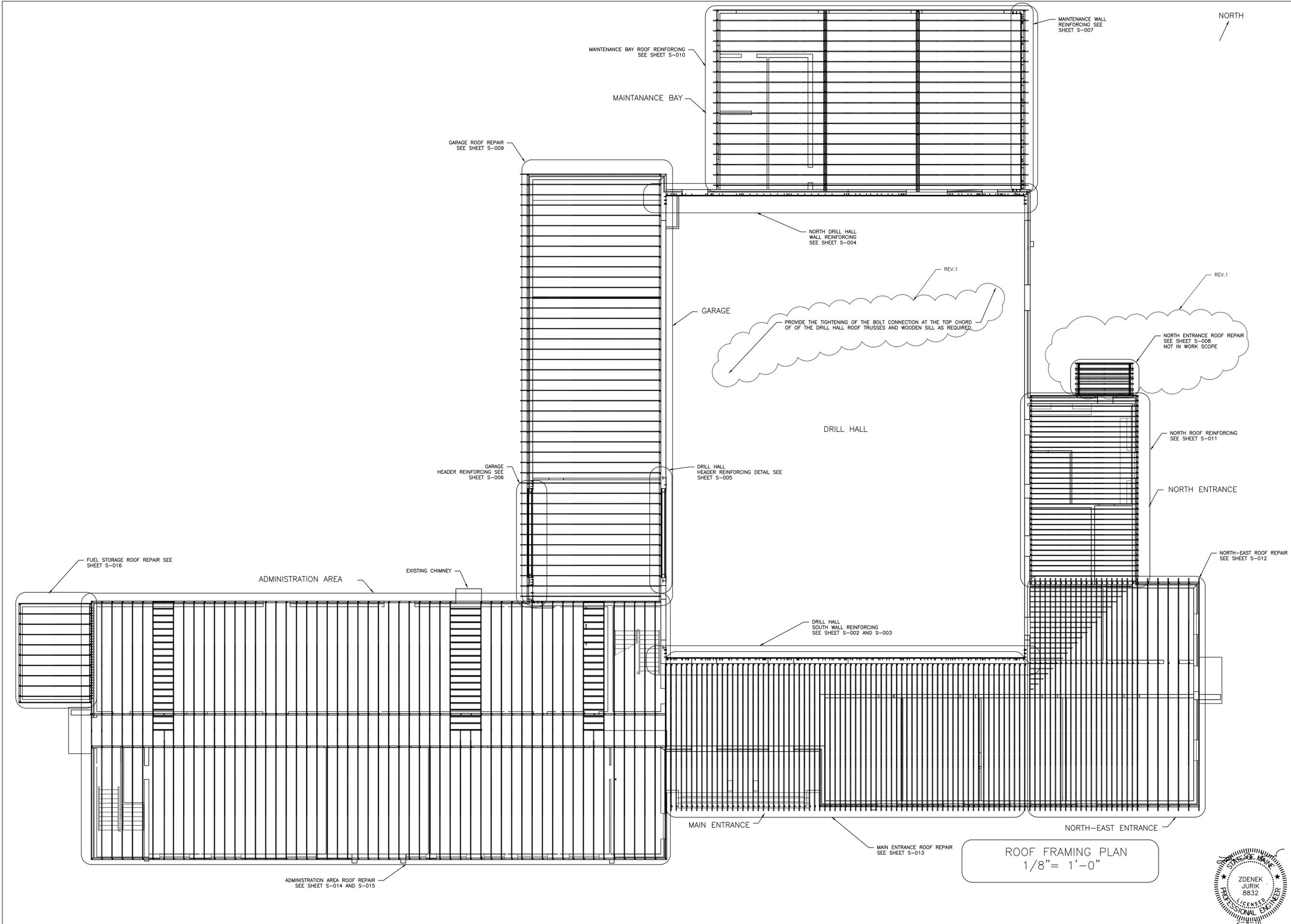
STATE OF MAINE DEPARTMENT OF DEFENSE, VETERANS AND EMERGENCY MANAGEMENT Cordjio Capital Projects Group ABC Engineering P.E. 16, Tannery Lane, Suite 23 Camden, Maine 04843 207-236-9970 / mdaigle@cordjiocpg.com

LEWISTON ARMY LEWISTON, MAINE LEWISTON READINESS CENTER ROOF REPLACEMENT STRUCTURAL NOTES

Table for PLAN PROGRESS with checkboxes for DRAFT, 35% REVIEW, 65% REVIEW, 95% REVIEW, FINAL REVIEW, FOR BIDDING, ISSUED FOR CONSTRUCTION, RECORD DRAWINGS.

SHEET ID: S-000 SHEET: 20 of 36





PLAN REVISIONS	
Rev#	Description
1	ADD NOTES
	Date 3-31-16
	Appr.

DESIGNED BY: ZJ
 DRAWN BY: ZJ
 CHECKED BY: MAD
 DATE: 2/4/2016
 SCALE: 1/8" = 1'-0"
 DFE PROJECT NO: 23SR10-461-D

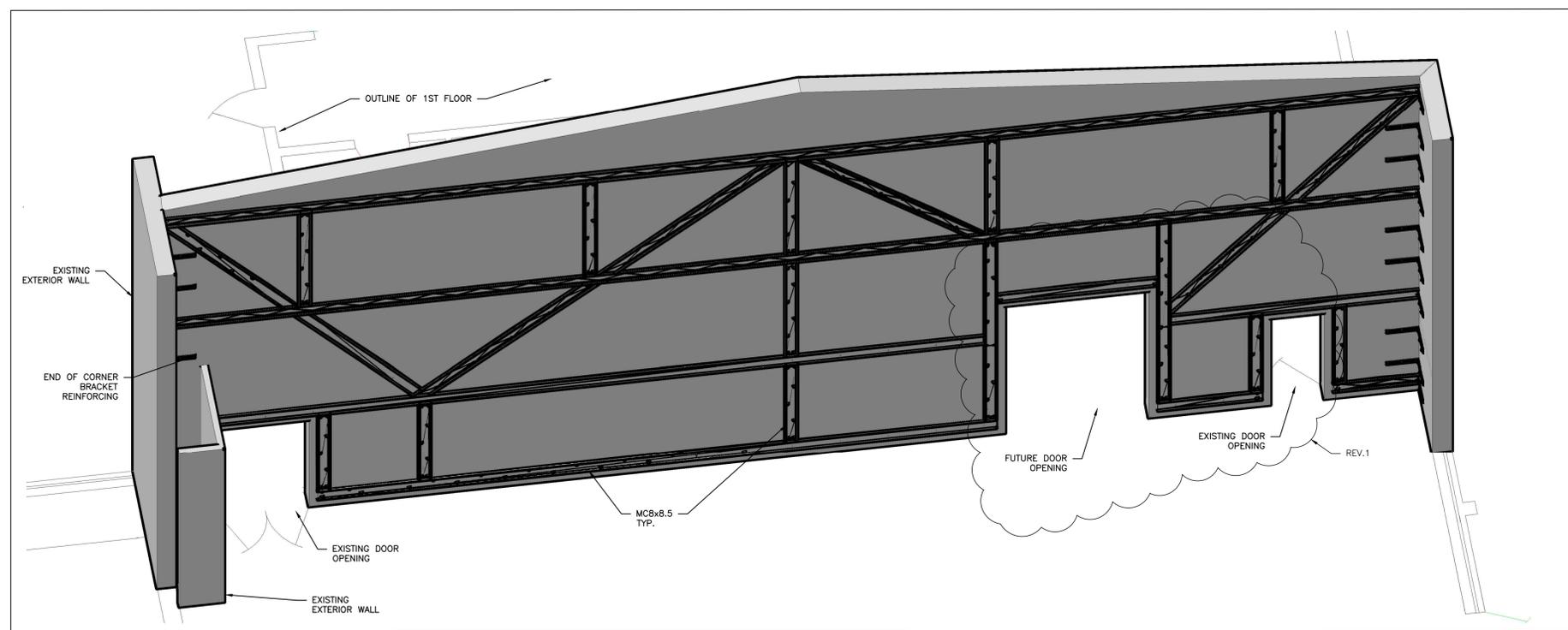
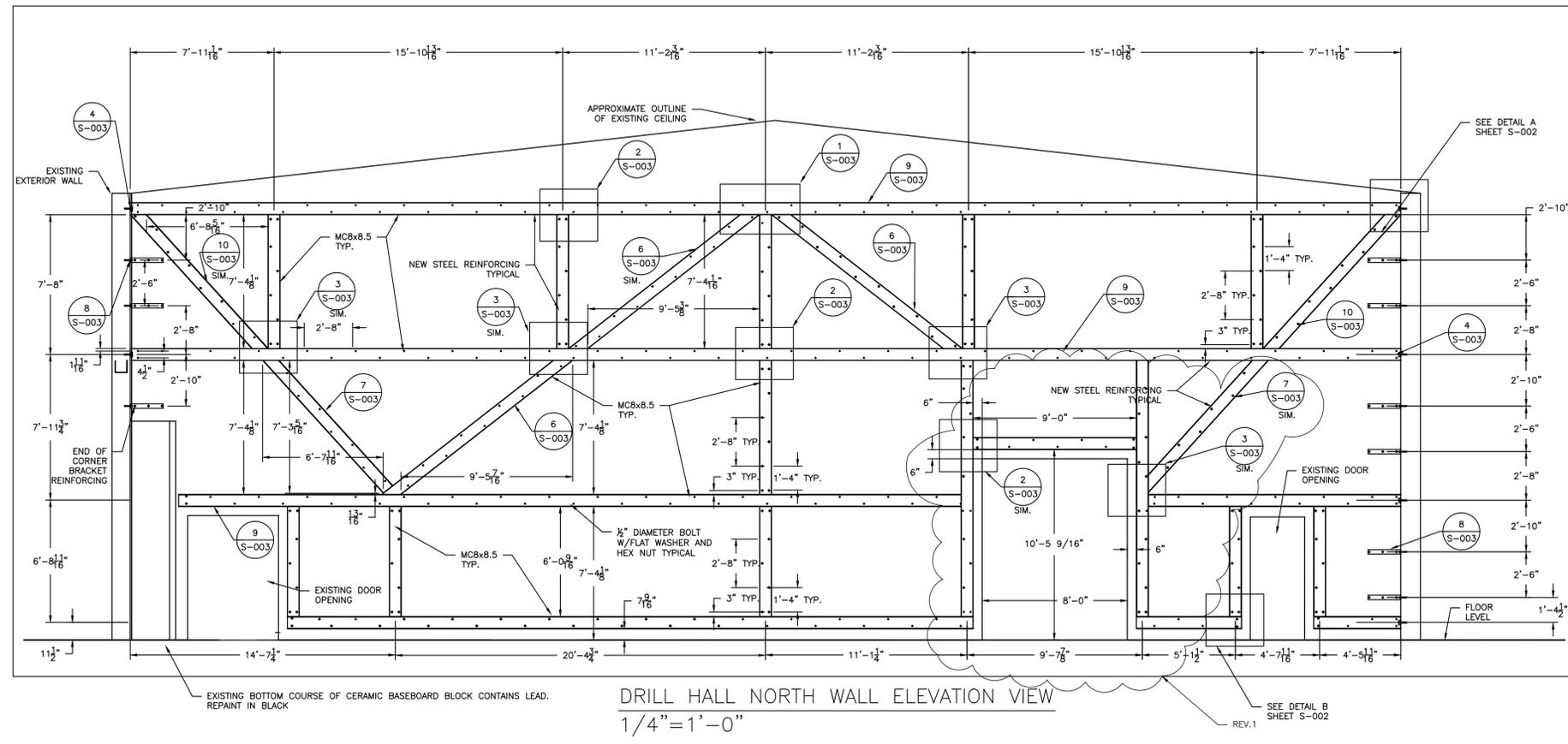
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 AND EMERGENCY MANAGEMENT
 Cordjia Capital Projects Group
 ABC Engineering P.E.
 16 Tannery Lane, Suite 23
 Camden, Maine 04843
 207-236-9970 / mdaigle@cordjiacep.com

LEWISTON ARMORY
 LEWISTON, MAINE
 LEWISTON READINESS CENTER ROOF REPLACEMENT
 ROOF FRAMING PLAN

- PLAN PROGRESS
- DRAFT
 - 35% REVIEW
 - 65% REVIEW
 - 95% REVIEW
 - FINAL REVIEW
 - FOR BIDDING
 - ISSUED FOR CONSTRUCTION
 - RECORD DRAWINGS

SHEET ID:
 S-001
 SHEET: 21 of 36

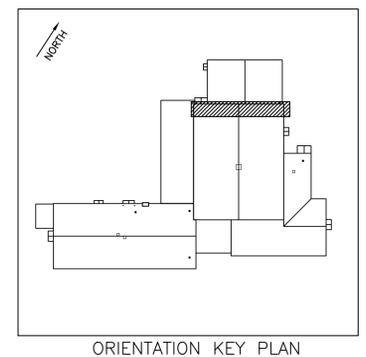




NOTE:
VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION

REMOVE OBJECTS AS REQUIRED FOR REINFORCING INSTALLATION. REINSTALL THEM AFTER INSTALLATION IS COMPLETE.

PAINT ALL REINSTALLED OBJECTS TO MATCH NEW WALL COLOR



DRILL HALL NORTH WALL REINFORCING
SCALE AS NOTED

PLAN REVISIONS	
Rev#	Description
1	NEW OPNG. REINFORCING CHANGE DRW TO BID SET 3-31-16

DESIGNED BY: ZJ	CHECKED BY: MAD	DATE: 10/28/2015	SCALE: AS NOTED
DRAWN BY: ZJ	DATE: 10/28/2015	DFE PROJECT NO: 23SR10-461-D	

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DEPARTMENT OF DEFENSE, VETERANS AND EMERGENCY MANAGEMENT
Cordjio Capital Projects Group
ABC Engineering P.E.
16 Tannery Lane, Suite 23
Camden, Maine 04843
207-236-9970 / mdaigle@cordjiocpg.com

LEWISTON ARMYORY
LEWISTON, MAINE
LEWISTON READINESS CENTER ROOF REPLACEMENT
DRILL HALL NORTH WALL REINFORCING

PLAN PROGRESS
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<input type="checkbox"/> ISSUED FOR CONSTRUCTION
<input type="checkbox"/> RECORD DRAWINGS

SHEET ID:
S-004
SHEET: 24 of 36





Rev#	Description	Date	Appr.
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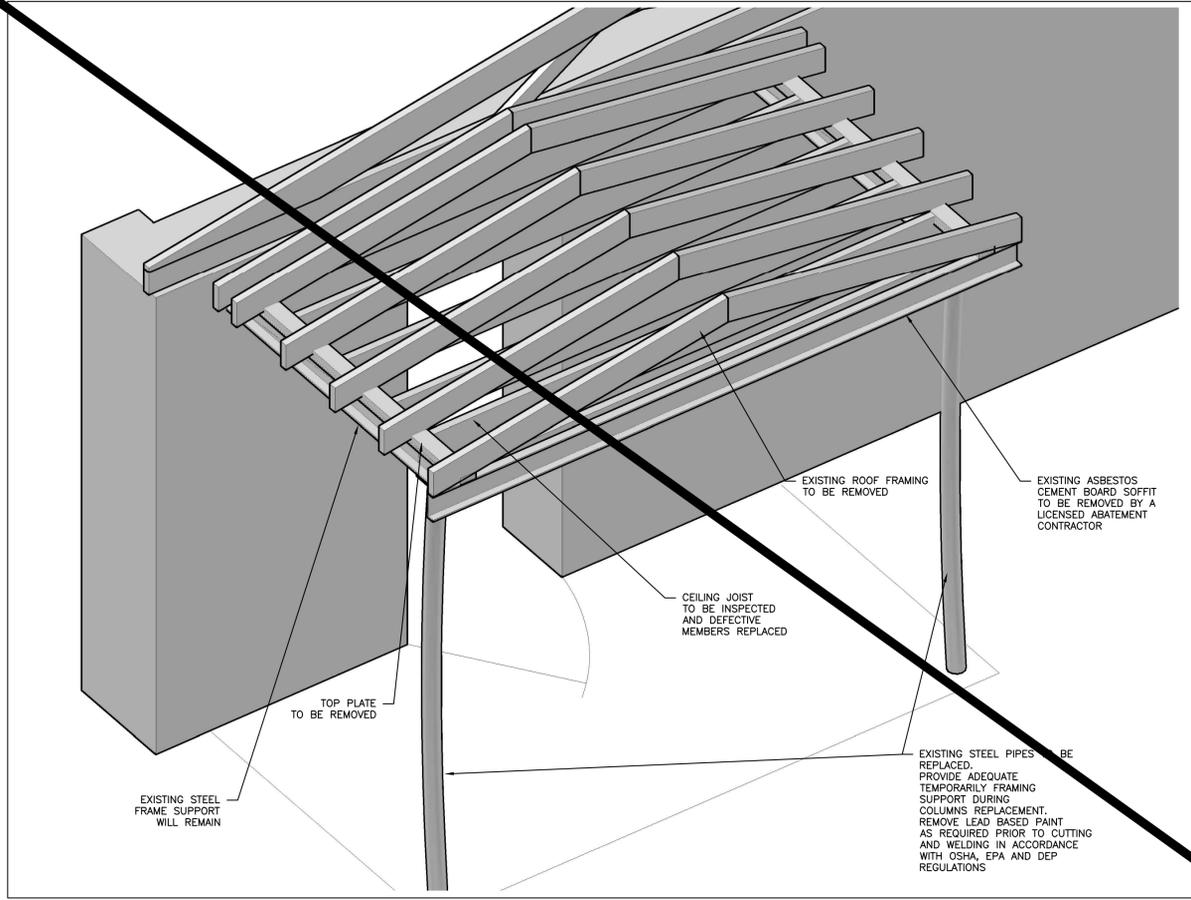
DESIGNED BY: ZJ	CHECKED BY: MAD	DATE: 2/4/2016	SCALE: AS NOTED
DRAWN BY: ZJ	PROJECT NO: 23SR10-461-D		

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 ABC Engineering P.E.
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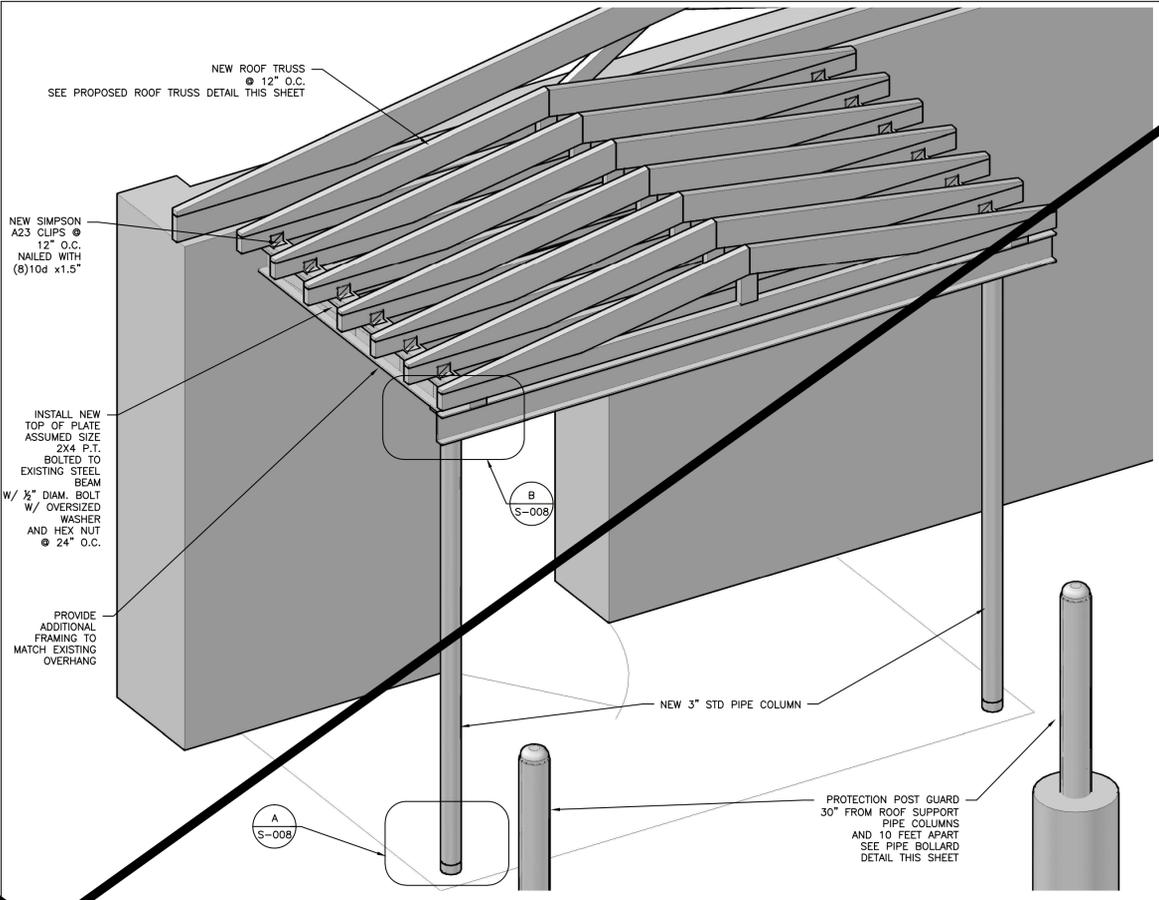
LEWISTON ARMY
 LEWISTON, MAINE
 LEWISTON READINESS CENTER ROOF REPLACEMENT
 NORTH ENTRANCE REPAIR

PLAN PROGRESS	
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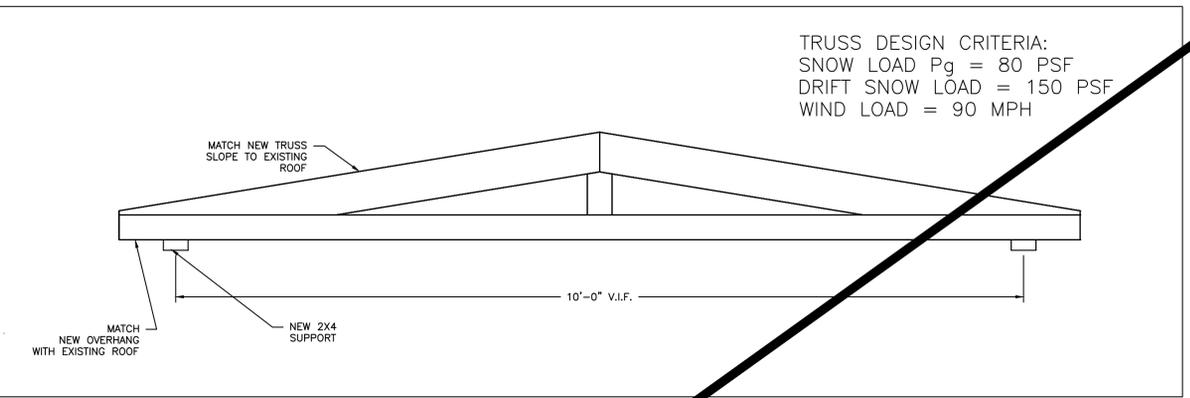
SHEET ID:
 S-008
 SHEET: 28 of 36



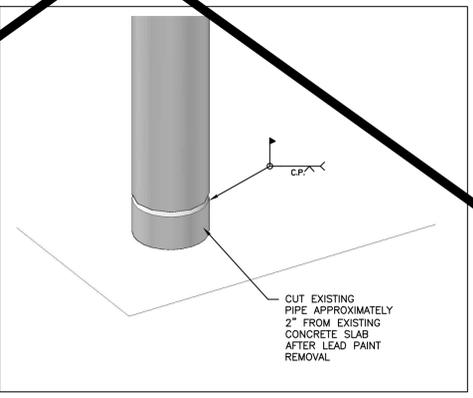
EXISTING ENTRANCE ISOMETRIC VIEW
 NO SCALE



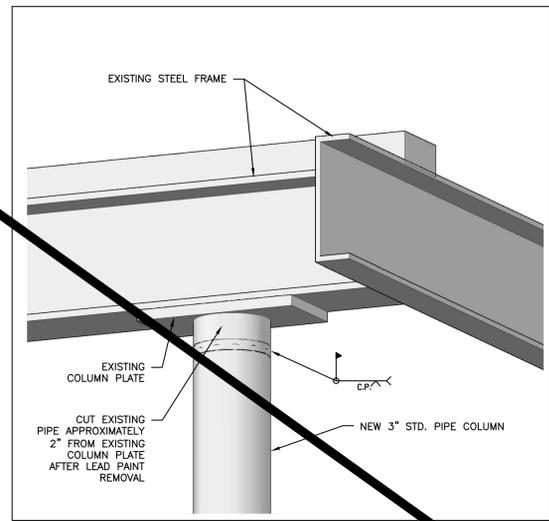
PROPOSED ENTRANCE ISOMETRIC VIEW
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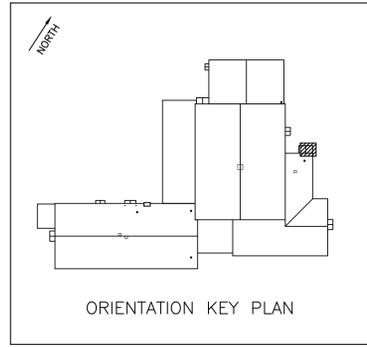
PROPOSED ROOF TRUSS DETAIL
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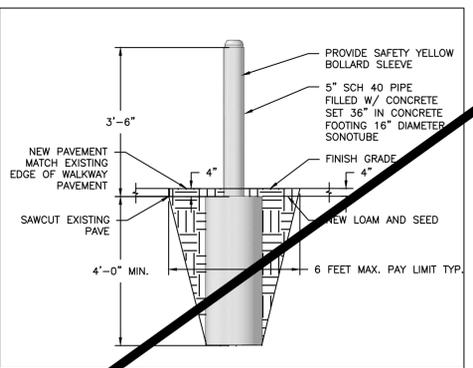
A
 S-008
 DETAIL
 NO SCALE



B
 S-008
 DETAIL
 NO SCALE



ORIENTATION KEY PLAN



BOLLARD DETAIL
 NO SCALE

NOT IN SCOPE

NORTH ENTRANCE REPAIR
 SCALE AS NOTED

