AG HERITAGE MUSEUM HISTORIC ROOF REPLACEMENT SOUTH DAKOTA STATE UNIVERSITY BUILDING #: 0601

ABBREVIATIONS:

WO# 22-109330

ACT AFF ALUM ANOD APPROX BSMT BTTM CIP CJ CLG CLR CMU CO COL CONC CONC CONST J CONT CPT CT DBL DEMO DIA DIMS DN DTL DWG EA EJ EL ELEC EPDM EQ EXIST EXT FD FE FEC	ACOUSTICAL CEILING TILE ABOVE FINISH FLOOR ALUMINUM ANODIZED APPROXIMATELY BASEMENT BOTTOM OF CAST IN PLACE CONTROL JOINT CEILING CLEAR CONCRETE MASONRY UNIT CLEAN OUT COLUMN CONCRETE CONSTRUCTION JOINT COLUMN CONCRETE CONSTRUCTION JOINT CONTINUOUS CARPET CERAMIC TILE DOUBLE DEMOLISH DIAMETER DIMENSIONS DOWN DETAIL DRAWING EACH EXPANSION JOINT ELEVATION ELECTRICAL PROPYLENE DIENE ROOFING EQUAL EXISTING EXTERIOR FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET	MAX MECH MFR MIN MO MTL NIC NO NOM OC PCC PLUMB PNT PSI PT PVC R RBR RCP RD REINF REQD RM SF SIM SOG SPEC SPK SQ SSTL STC STL STC TI TO T/D	PLUMBING PAINT/PAINTED POUNDS PER SQUARE INCH PRESSURE TREATED POLYVINYL CHLORIDE RADIUS RUBBER REFLECTED CEILING PLAN ROOF DRAIN REINFORCED REQUIRED ROOM SQUARE FOOT SIMILAR SLAB ON GRADE SPECIFIED OR SPECIFICATION SPRINKLER SQUARE STAINLESS STEEL SOUND TRANSMISSION COEFFICIENT STEEL
ELEC	ELECTRICAL	SSTL	STAINLESS STEEL
EQ	EQUAL	STL	STEEL
EXT	EXTERIOR	T&G	TONGUE AND GROOVE
FEC FF	FIRE EXTINGUISHER CABINET FINISH FLOOR	T/D TELE	TELEPHONE AND DATA TELEPHONE
FLR	FLOOR	TOS	TOP OF STRUCTURE
FO FTG	FACE OF FOOTING	TOW TYP	TOP OF WALL TYPICAL
GA	GAUGE	UNO	UNLESS NOTED OTHERWISE
GALV GWB	GALVANIZED GYPSUM WALL BOARD	VIF VP	VERIFY IN FIELD VISION PANEL
HC	HOLLOW CORE	W/	WITH
HM HVAC INSUL	HOLLOW METAL HEATING VENTILATION & AIR CONDITIONING INSULATION	WC WD	WATER CLOSET WOOD
INT LAV	INTERIOR LAVATORY		



Facilities and Services

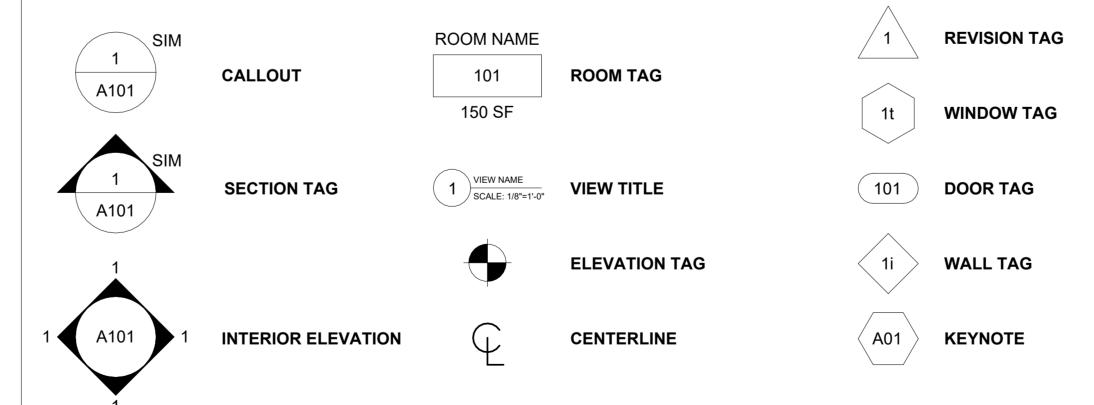
Administration 304, Box 2201 South Dakota State University Brookings, SD 57007-1698 Phone 605-688-4136 Fax: 605-688-4010

No. Description Date **Title Sheet** Agricultural Heritage Museum 22-109330 Project number Historic Roof Replacement 04/03/2024 G001 Date Drawn by CS Not to Scale JM Checked by

SHEET INDEX:	SHE	EΤ	IND	EX:
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G001	Title Sheet
G002	Historic Preservation Review
D101	Roof Demolition
A101	Roof Plan
A201	Building Sections
A202	Building Sections
A221	Details
A222	Details
A223	Details

SYMBOLS:



SCOPE OF WORK SUMMARY:

PROJECT CONSISTS OF THE REMOVAL, SALVAGE, AND REINSTALLATION OF APPROXIMATELY 12,000 SQUARE FEET OF EXISTING FRENCH CLAY ROOFING TILES, RIDGE, AND HIP CAPS. THE PROJECT ALSO INCLUDES THE REMOVAL AND DISPOSAL OF ROOFING MEMBRANE, ASPHALT UNDERLAYMENT, MISCELLANEOUS ROUGH CARPENTRY, AND DETERIORATED DECORATIVE WOOD CARPENTRY. NEW CONSTRUCTION WILL INCLUDE ROOFING MEMBRANE, UNDERLAYMENT, ICE & WATER SHIELD, COPPER FLASHING, COPPER GUTTERS, 20% REPLACEMENT CLAY ROOFING TILES, ROUGH CARPENTRY, ORNAMENTAL CARPENTRY, SEALANTS, AND EXTERIOR PAINT. COPPER DOWNSPOUTS ARE TO BE SALVAGED AND REINSTALLED. INSPECT THE EXISTING TONGUE & GROOVE ROOF DECKING AND SHEET DECKING FOR DAMAGE AND IRREGULARITIES, REPAIR AS REQUIRED TO MAINTAIN A STABLE SUBSTRATE FOR THE ROOF ASSEMBLY INSTALLATION.

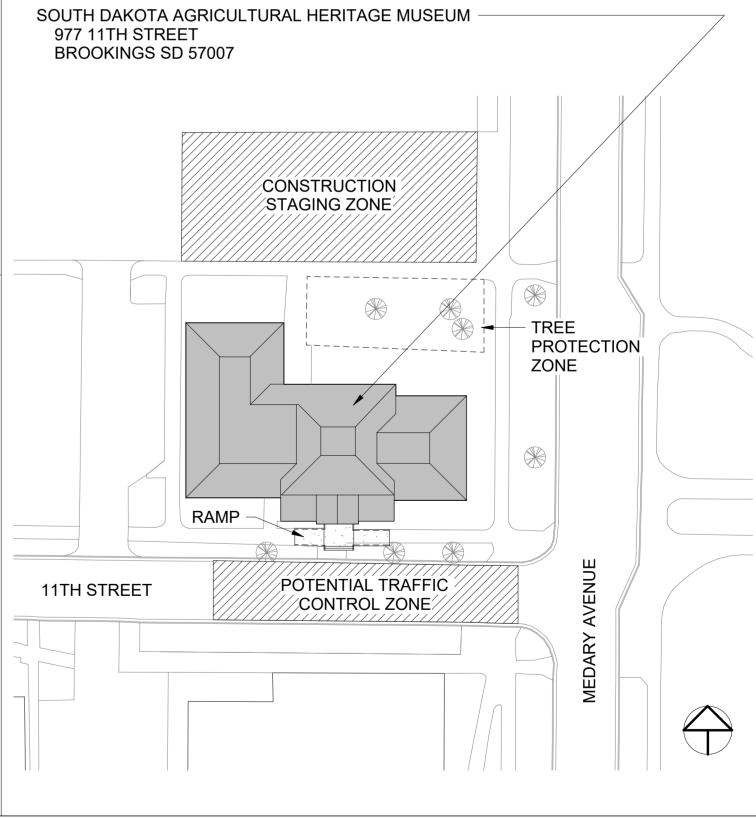
UNIT PRICES:

- 1. TONGUE AND GROOVE ROOF DECKING
- COPPER FLASHING AND COPING
 EXTERIOR FINISH CARPENTRY
- EXTERIOR FINISH CARPENT
 EXTERIOR PAINT
- 5. THERMAL INSULATION
- 6. WOOD ROOF DECKING, SHEET

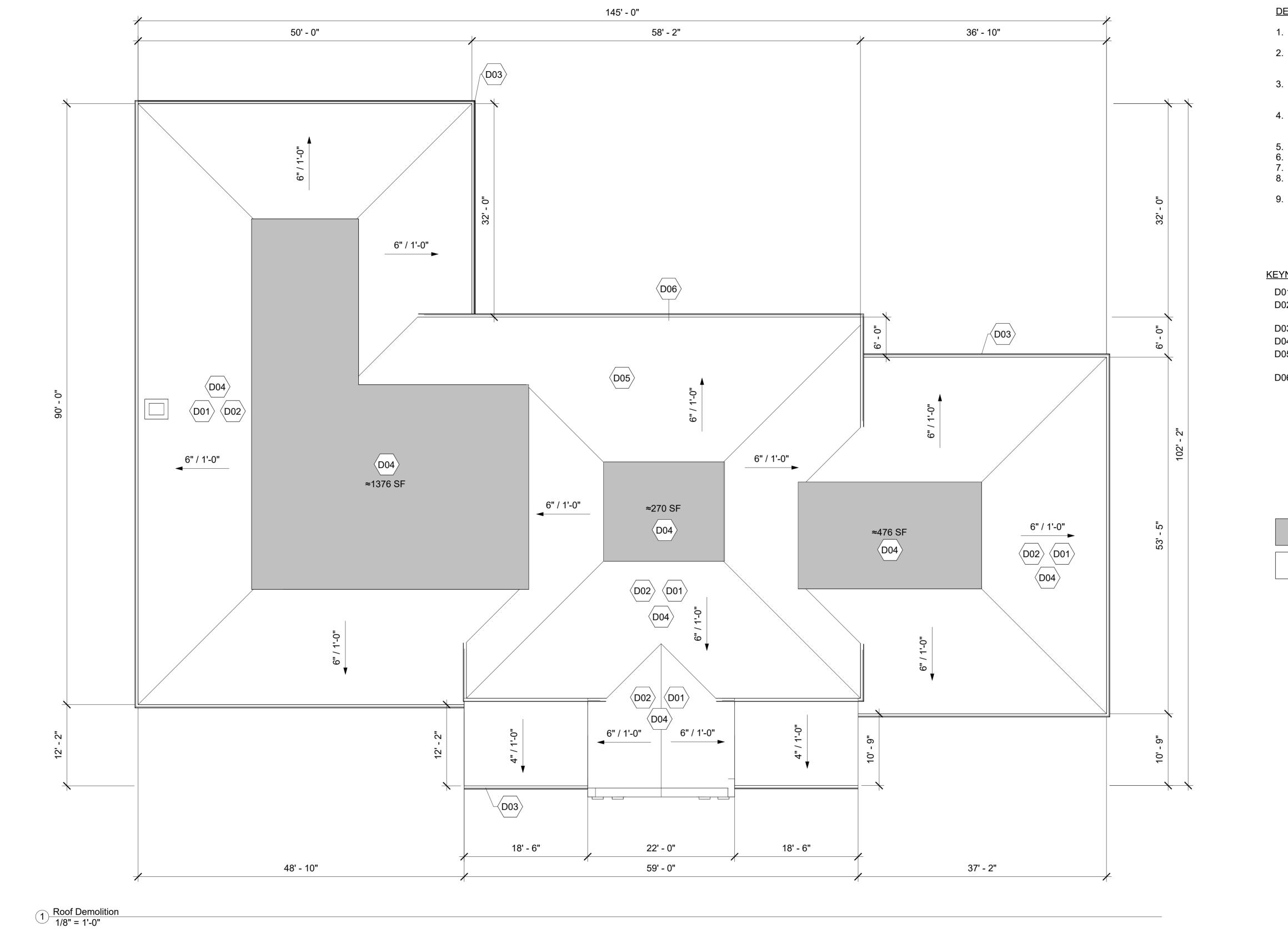
PROJECT CONTACTS:

PROJECT MANAGER: PROJECT OWNER: ARCHITECT: CHRISTOPHER GROSS GWEN MCCAUSLAND JONATHAN MEENDERING PHONE: (605) 688-6251 PHONE: (605) 688-4581 PHONE: (605) 688-4975

LOCATION MAP:



/3/2024 10:15:58 AM





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Agricultural Heritage Museum **Historic Roof Replace**

ement	No.	Description	Date	Roof Demolition Project number Date Drawn by Checked by

DEMOLITION GENERAL NOTES:

- 1. Notify owner of discrepancies between existing conditions (including dimensions) and Drawings before proceeding with selective demolition.
- 2. Remove and dispose of metal flashing and coping, rubber membrane and asphalt underlayment, damaged clay roof tile, and damaged roof decking. Steel removed from roof to be recycled by owner, contractor to coordinate recycling of steel with owner.
- 3. Existing items to be removed and reinstalled include copper gutters/downspouts and french clay roof tiles and trim pieces. Carefully detach clay tiles in a manner to prevent damage. Contractor to provide 20% new french clay roof tile to replace damaged roof tiles.
- Existing items to remain include wood tongue and groove decking, sheet decking and roof insulation. Inspect remaining roof substrates for damage and make repairs or replace as required. Deck surfaces to be stable, clean, and dry prior to installation of new membrane.
- 5. Coordinate street closures with owner and city of Brookings. A minimum of 72 hour notice is reqd. Coordiante sidewalk closures and building utility outages with owner in advance.
- Create a tree protection zone, as shown on G001. Coordinate zone location and size with owner. Contractor to locate the construction staging zone in the parking lot N of the museum as shown on G001. Staging zone not to impede sidewalks.
- 9. Provide protection to ensure safety of people in and around the museum and to prevent damage to adjacent buildings and facilities.

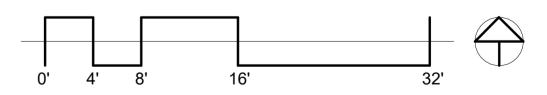
<u>KEYNOTES</u>

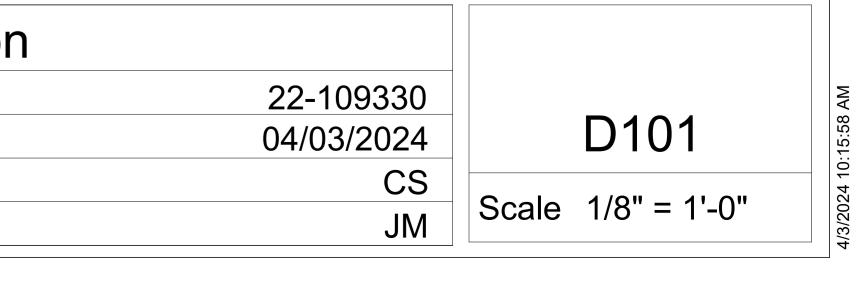
- D01 French clay roof tile, ridge tiles, and eave tiles to be removed and salvaged for reinstallation.
- D02 Metal flashing and coping, rubber membrane, and aphalt underlayment to be removed and disposed of.
- D03 Copper gutters and downspouts to be removed and salvaged for reinstallation.
- D04 Wood decking and roof insulation to remian; repair or replace damaged.

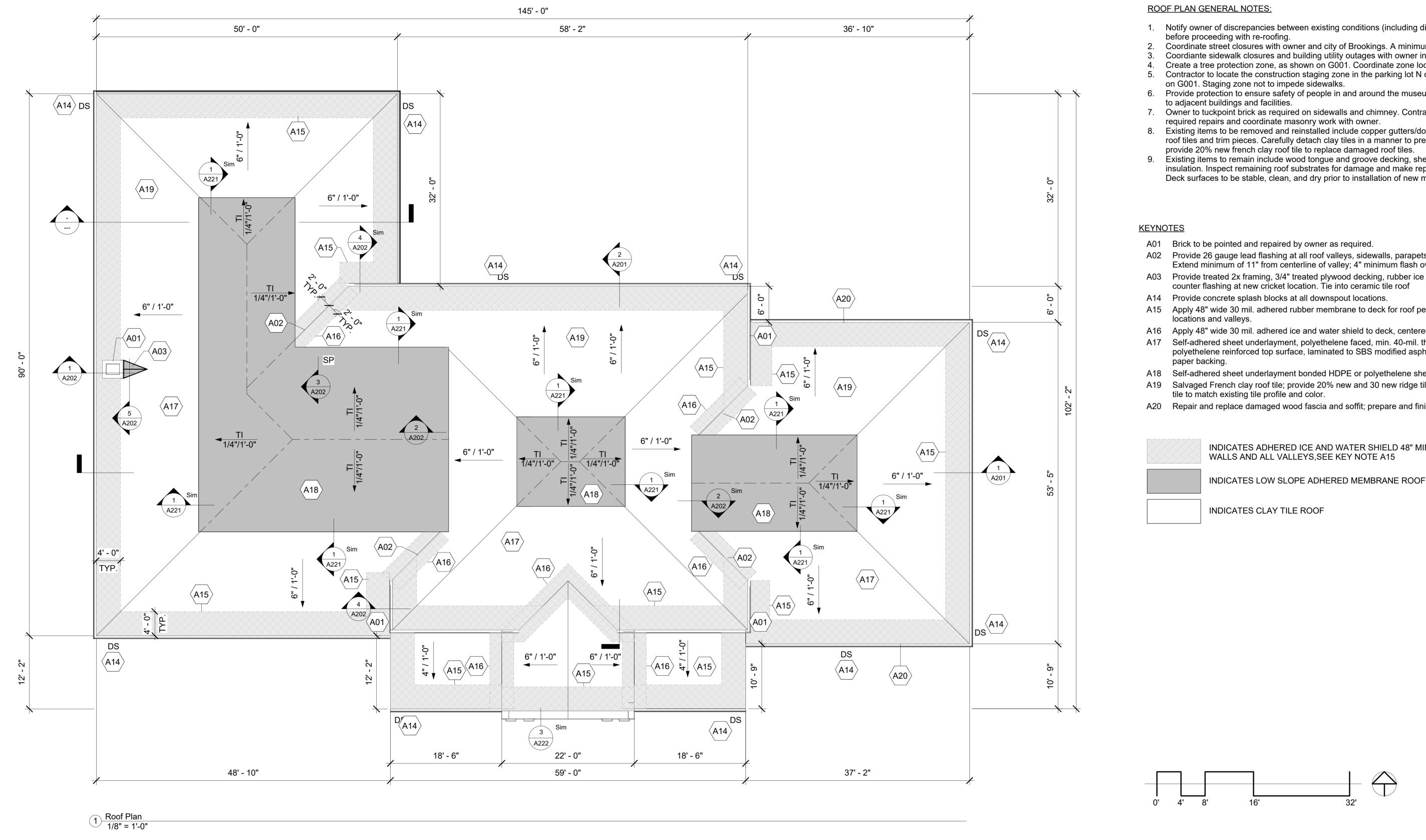
INDICATES EXISTING CLAY TILE ROOF

- D05 Damaged clay tiles to be removed and disposed of. Provide min. 20% replacement decking, tiles, and insulation. New replacement tiles to match profile and color of exitsing tiles.
- D06 Remove damaged or deteriorated fascia and soffit. Remove chipped and peeling paint. Repair fascia and soffit, prepare, and finish paint; typical.

INDICATES EXISTING LOW SLOPE ADHERED MEMBRANE ROOF









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Agricultural Heritage Museum **Historic Roof Replace**

	No.	Description	Date	Roof Plan
				Project number
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				Checked by

- Notify owner of discrepancies between existing conditions (including dimensions) and Drawings
- Coordinate street closures with owner and city of Brookings. A minimum of 72 hour notice is reqd. Coordiante sidewalk closures and building utility outages with owner in advance.
- Create a tree protection zone, as shown on G001. Coordinate zone location and size with owner. Contractor to locate the construction staging zone in the parking lot N of the museum as shown
- Provide protection to ensure safety of people in and around the museum and to prevent damage
- Owner to tuckpoint brick as required on sidewalls and chimney. Contractor to notify owner of
- Existing items to be removed and reinstalled include copper gutters/downspouts and french clay roof tiles and trim pieces. Carefully detach clay tiles in a manner to prevent damage. Contractor to provide 20% new french clay roof tile to replace damaged roof tiles.
- Existing items to remain include wood tongue and groove decking, sheet decking and roof insulation. Inspect remaining roof substrates for damage and make repairs or replace as required. Deck surfaces to be stable, clean, and dry prior to installation of new membrane.

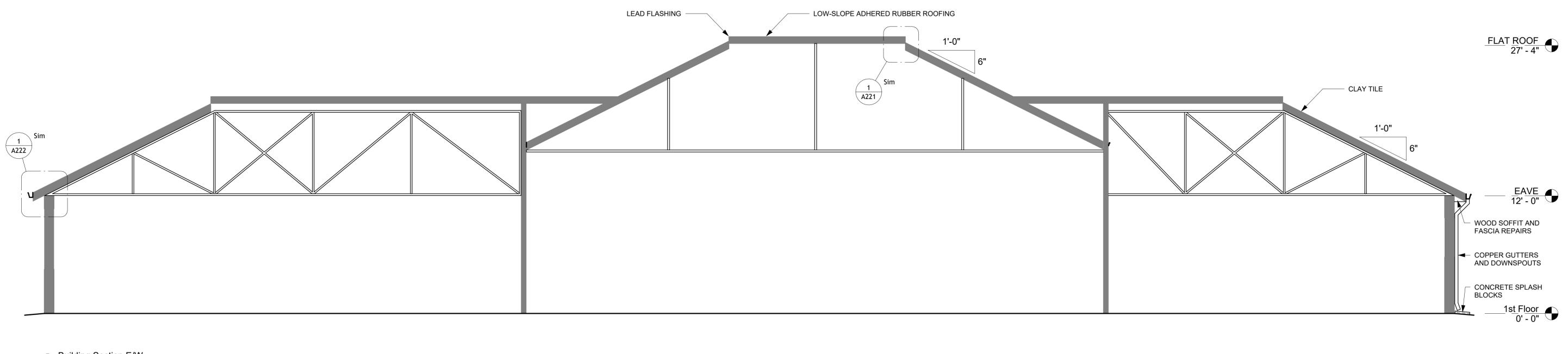
- A02 Provide 26 gauge lead flashing at all roof valleys, sidewalls, parapets, and material transitions. Extend minimum of 11" from centerline of valley; 4" minimum flash overlap.
- A03 Provide treated 2x framing, 3/4" treated plywood decking, rubber ice and water shield, and counter flashing at new cricket location. Tie into ceramic tile roof
- A15 Apply 48" wide 30 mil. adhered rubber membrane to deck for roof perimeter and 48" from sidewall
- A16 Apply 48" wide 30 mil. adhered ice and water shield to deck, centered on all valleys.
- A17 Self-adhered sheet underlayment, polyethelene faced, min. 40-mil. thickness, slip resistent, polyethelene reinforced top surface, laminated to SBS modified asphalt adhesive, with replease
- A18 Self-adhered sheet underlayment bonded HDPE or polyethelene sheet.
- A19 Salvaged French clay roof tile; provide 20% new and 30 new ridge tiles in unbroken bundles. New
- A20 Repair and replace damaged wood fascia and soffit; prepare and finish paint, typical.

INDICATES ADHERED ICE AND WATER SHIELD 48" MIN. FROM EXT.

22-109330 04/03/2024 CS JM

A101

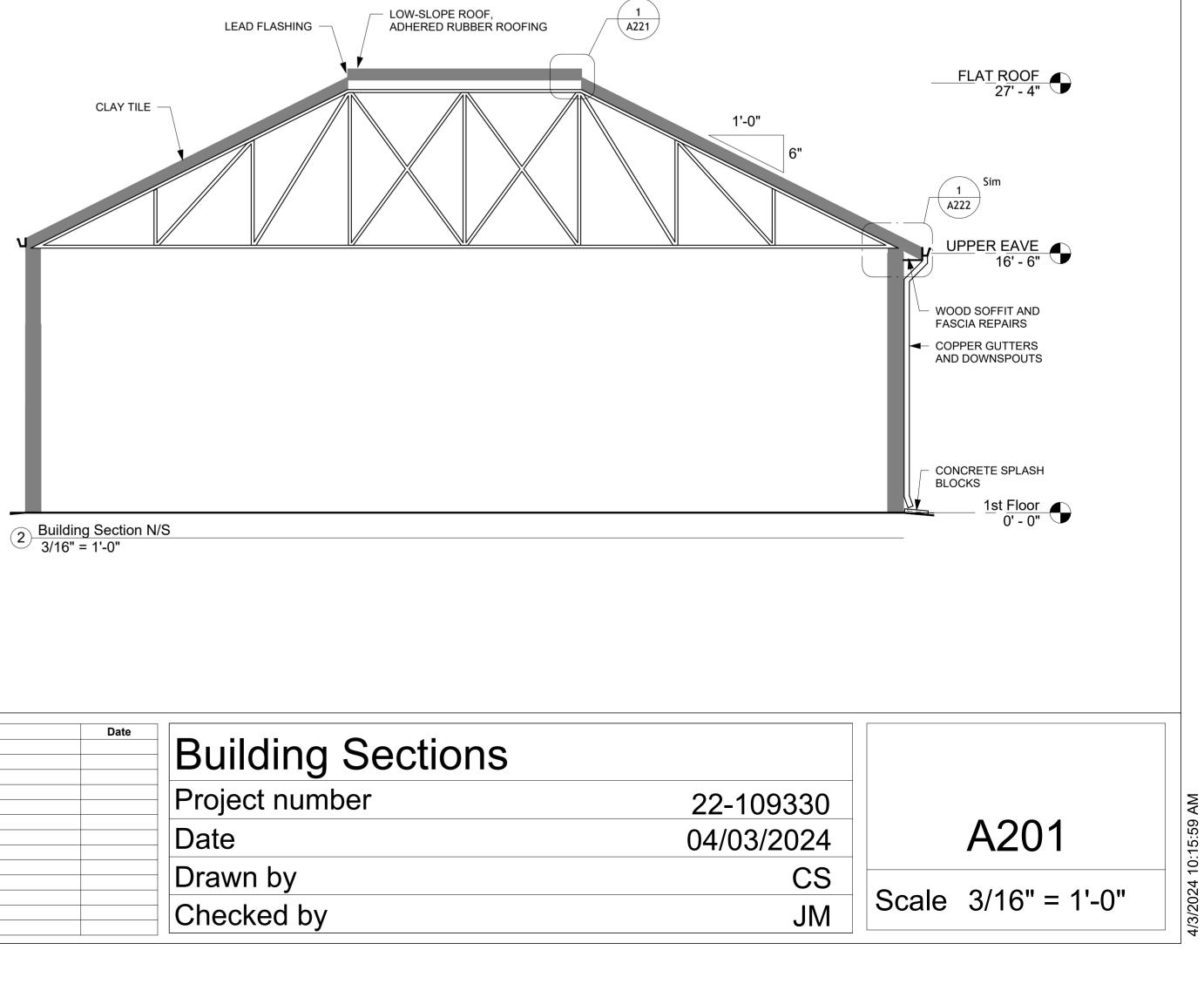
Scale 1/8" = 1'-0"



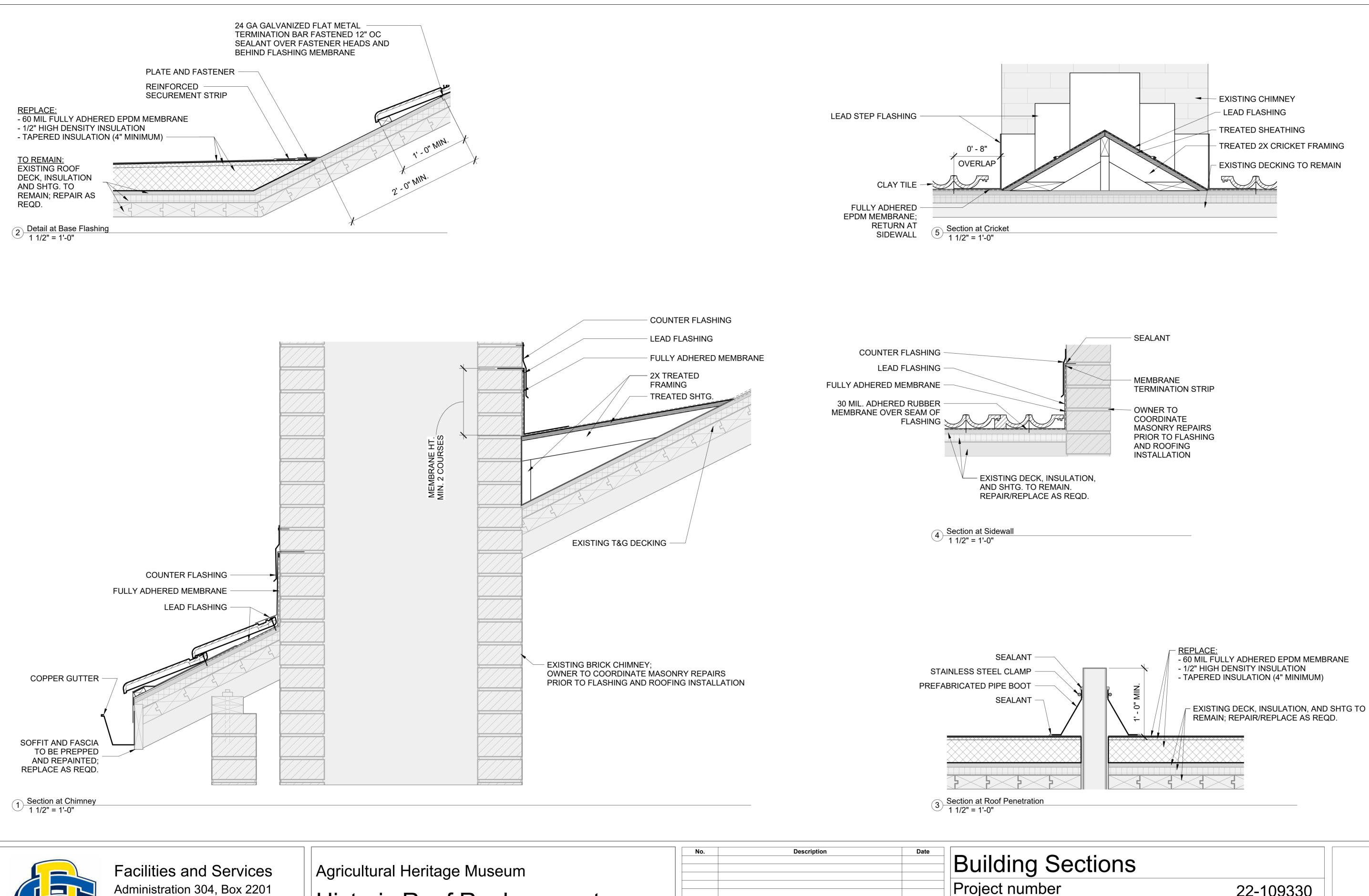
1 Building Section E/W 3/16" = 1'-0"



Facilities and Services Administration 304, Box 2201 South Dakota State University Brookings, SD 57007-1698 Phone 605-688-4136 Fax: 605-688-4010 Agricultural Heritage Museum Historic Roof Replace



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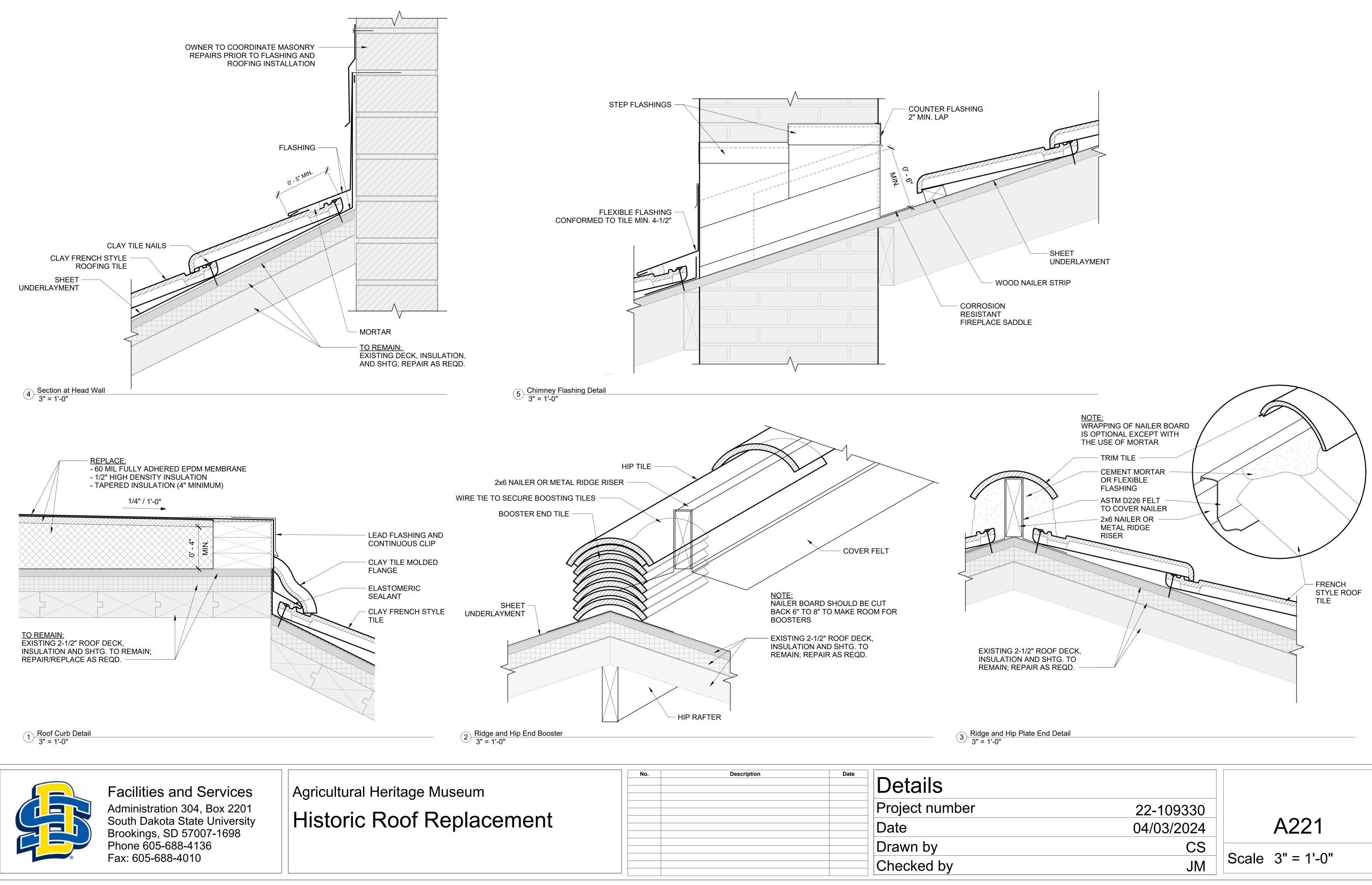
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Historic Roof Replacement

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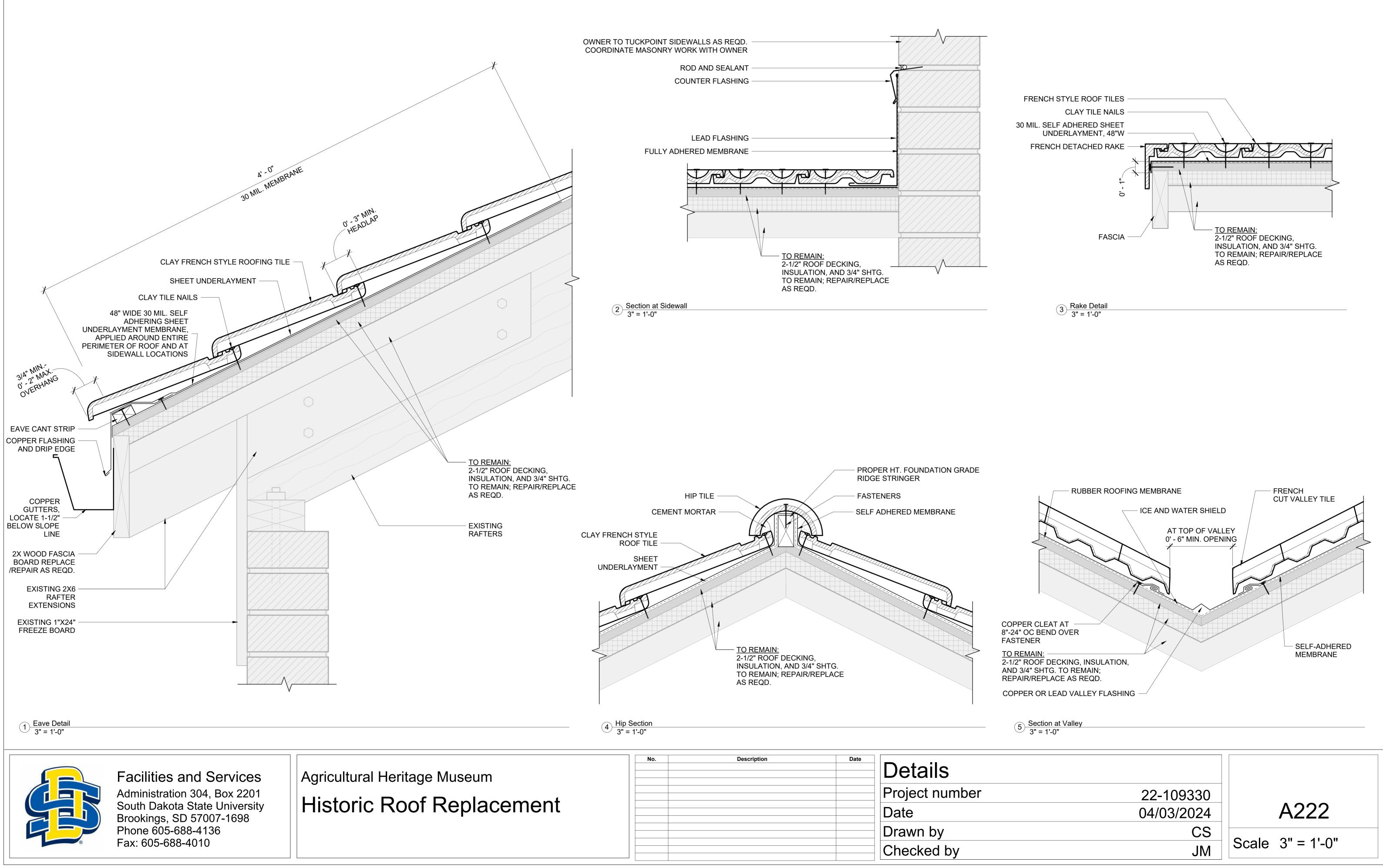
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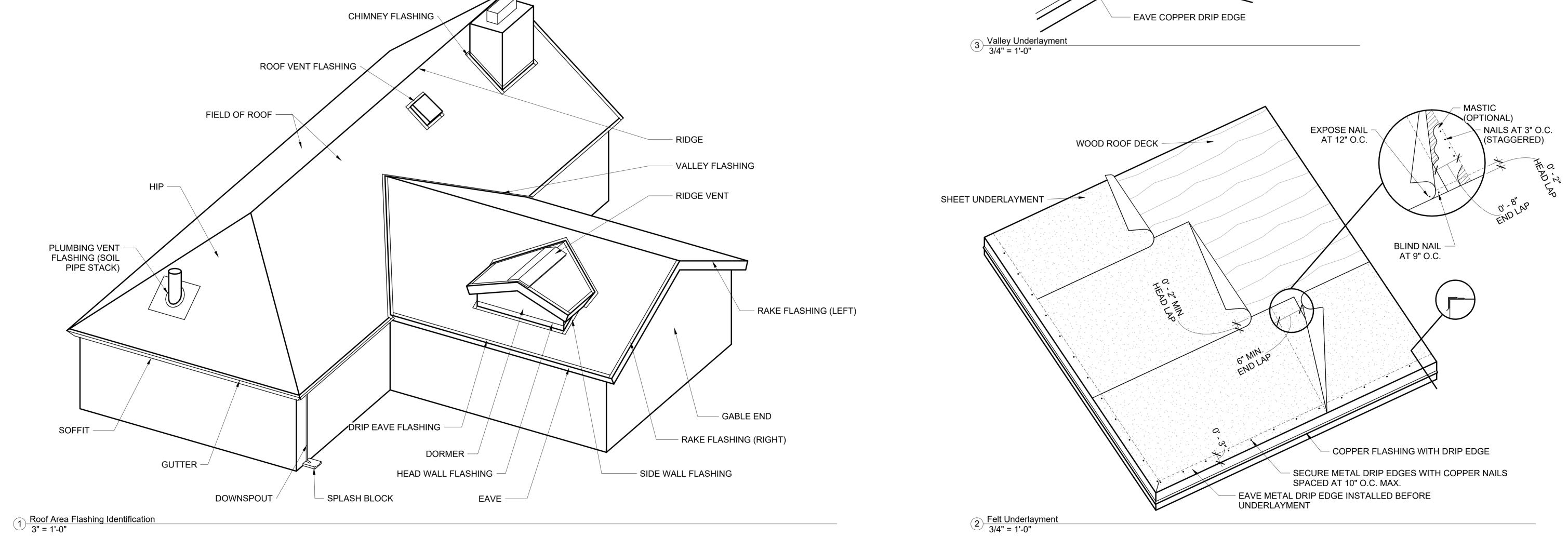


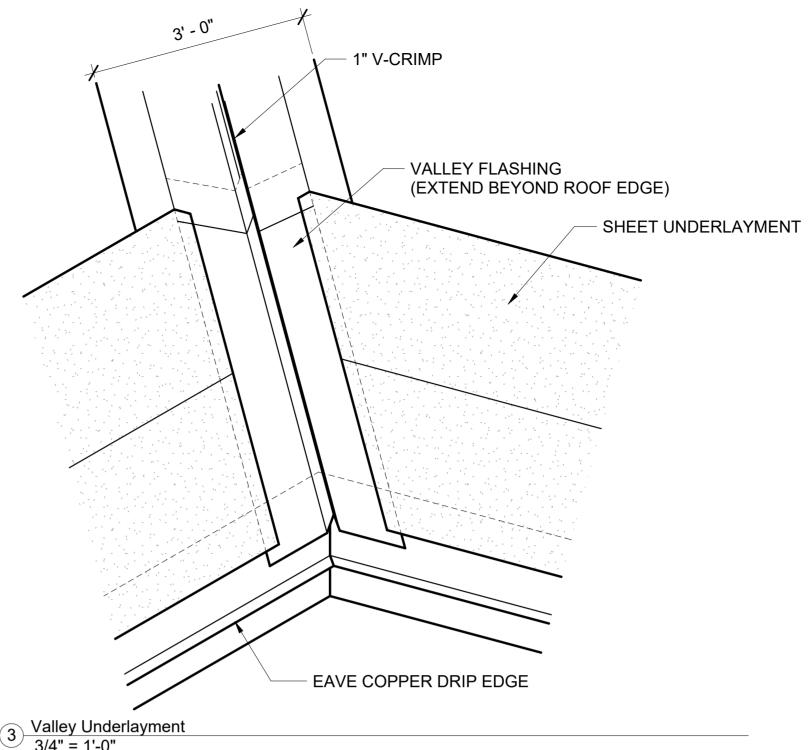


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