# CITY OF SANIBEL

## HISTORICAL MUSEUM AND VILLAGE RUTLAND HOUSE ROOF REPLACEMENT PROJECT 950 DUNLOP RD, SANIBEL, FL







Weston & Sampson Engineers, Inc. 4210 Metro Parkway, Suite 230 Fort Myers, FL, 33916 978.532.1900 800.SAMPSON

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#### <u> 1.0 - GENERAL</u>

- THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR LOCATION, DIMENSIONS, AND DETAILS OF OPENINGS, SLEEVES, EMBEDMENTS, INSERTS, PADS, CURBS, DEPRESSIONS, ANCHOR BOLTS, AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.
- 1.02 THE CONTRACTOR IS RESPONSIBLE FOR CHECKING, COORDINATING AND VERIFYING ALL DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY DISCREPANCY TO THE ARCHITECT AND ENGINEER AS A REQUEST FOR INFORMATION (RFI) BEFORE PROCEEDING WITH WORK.
- 1.03 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IN THE FIELD THE EXISTENCE AND LOCATION OF OVERHEAD, BURIED AND/OR EMBEDDED UTILITIES, AND DETERMINING LOCATIONS OF ALL EMBEDDED MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS AFFECTED BY THE WORK OF THIS CONTRACT.
- 1.04 ALL WORK IS TO CONFORM WITH THE FOLLOWING CODES AND STANDARDS:

(A) FLORIDA BUILDING CODE (FBC 2023)

(B) FLORIDA BUILDING CODE, EXISTING BUILDING (FBCE 2023)

(C) INTERNATIONAL BUILDING CODE (IBC 2021 WITH AMENDMENTS) (D) "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" - AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7-22)

FOR ADDITIONAL CODES AND STANDARDS REFER TO SPECIFICATIONS.

- 1.05 THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER OF UNFORESEEN CONDITIONS THAT MAY BE UNCOVERED DURING DEMOLITION AND CONSTRUCTION AS A REQUEST FOR INFORMATION (RFI) BEFORE PROCEEDING WITH WORK.
- 1.06 TYPICAL DETAILS AND NOTES SHOWN ON STRUCTURAL DRAWINGS SHALL BE APPLICABLE TO ALL PARTS OF THE STRUCTURAL WORK EXCEPT WHERE SPECIFICALLY REQUIRED OTHERWISE BY CONTRACT DOCUMENTS. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO THOSE SHOWN FOR LIKE CONDITIONS AS DETERMINED BY THE ENGINEER.
- 1.07 IN ACCORDANCE WITH SPECIFICATION SECTION 01 45 23, TESTING AND INSPECTION OF STRUCTURAL WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COSTS FOR TESTING AND INSPECTIONS WILL BE PAID BY THE CONTRACTOR. PROVIDE TEST RESULTS TO THE ENGINEER IN A TIMELY MANNER.
- 1.08 THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION ONLY. THE CONTRACTOR SHALL DESIGN AND PROVIDE ALL REQUIRED SHORING AND TEMPORARY BRACING TO RESIST FORCES ON THE STRUCTURE THROUGHOUT THE CONSTRUCTION PERIOD.
- 1.09 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS. EXERCISE EXTREME CARE AND CAUTION WHEN EXCAVATING AND FILLING ADJACENT TO EXISTING STRUCTURES. UNDER NO CIRCUMSTANCES SHALL THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURES BE IMPAIRED IN ANY WAY BY CONSTRUCTION OPERATIONS AND PROCEDURES. DO NOT EXCAVATE OR DISTURB SOIL ADJACENT TO OR BENEATH EXISTING FOOTINGS.

#### 2.0 - DESIGN LOADS:

2.01 GENERAL DESIGN REQUIREMENTS (A) RISK CATEGORY

2.02 DEAD LOADS

(A) SELF-WEIGHT OF ALL ATTACHED AND SUSPENDED ELEMENTS

2.03 LIVE LOADS (A) ROOF LIVE LOADS

2.04 WIND LOADS

(A) ULTIMATE DESIGN WIND SPEED, V<sub>ULT</sub> (B) NOMINAL DESIGN WIND SPEED, V<sub>ASD</sub> (C) BUILDING ENCLOSURE CLASSIFICATION (D) WIND EXPOSURE CATEGORY (E) INTERNAL PRESSURE COEFFICIENT, GCpi

(F) COMPONENTS AND CLADDING

(FBC 2023, SECTION 1604) II (FBC 2023, TABLE 1604.5)

(FBCE 2023, SECTION 807.3 & 807.4)

(FBCE 2023, SECTION 807.3 & 807.4)

20 PSF, 300 LB (FBC 2023, SECTION 1609)

163 MPH (FBC 2023, FIGURE 1609.3) 126 MPH (FBC 2023, SEC. 1609.3.1) ENCLOSED (ASCE 7-22, SEC. 26.12) C (FBC 2023, SEC 1609.4) ±0.18 (ASCE 7-22, TABLE 26.13-1) SEE TABLE & FIGURE BELOW

COMPONENTS AND CLADDING WIND PRESSURE LOADS ON BUILDING (ASCE 7-22, CHAPTER 30, PART 1)

### 3.0 - SUBMITTALS

3.01 SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION REGARDING ALL STRUCTURAL ITEMS INCLUDING:

(A) STRUCTURAL WOOD MEMBERS AND ACCESSORIES

- 3.02 IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO THE REVIEW AND ACCEPTANCE OF THE ENGINEER.
- 3.03 SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR MIX DESIGNS BY THE ENGINEER'S REVIEW.

#### <u>4.0 – SAWN LUMBER</u>

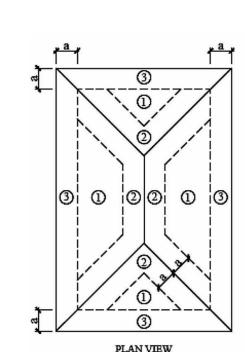
- 4.01 ALL WOOD CONSTRUCTION SHALL CONFORM TO THE AWC NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION AND ALL STATE AND LOCAL CODES.
- 4.02 ALL SAWN LUMBER SHALL BE SOUTHERN PINE #1 WITH THE ALLOWABLE FIBER STRESSES PER THE AWC NATIONAL DESIGN SPECIFICATION (NDS).
- 4.03 SAWN LUMBER AND TIMBER SHALL BE KILN DRIED TO A MOISTURE CONTENT OF 19%.
- 4.04 ALL TIMBER SHALL BE PRESSURE TREATED (P.T.) WITH A WOOD PRESERVATIVE TO MEET AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) USE CATEGORY 3B. FOR FRAMING IN CONTACT WITH THE GROUND, MEET AWPA USE CATEGORY 4A. FRAMING SHALL NOT BE INCISED WITHOUT PRIOR APPROVAL BY THE ENGINEER.
- 4.05 CONNECTION ELEMENTS INCLUDING BUT NOT NECESSARILY LIMITED TO NAILS, SCREWS, BOLTS, NUTS, WASHERS, CLIPS, ETC. EXPOSED TO THE ELEMENTS SHALL BE HOT-DIP GALVANIZED (HDG). PRE-ENGINEERED CONNECTORS SHALL BE G185 GALVANIZED (E.G. SIMPSON ZMAX) OR HOT-DIP GALVANIZED. ALL OTHERS SHALL BE PRIMED AND PAINTED.
- 4.06 ALL FRAMING NAILS SHALL BE COMMON NAILS AND SHALL BE OF THE SIZE AND NUMBER INDICATED ON THE DRAWINGS. NAILING NOT SHOWN SHALL BE AS INDICATED IN TABLE 2304.10.1 OF THE FBC.
- 4.07 BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.1 AND ASTM A307. ALL BOLTS AND LAG SCREWS SHALL BE INSTALLED WITH STANDARD CUT WASHERS.
- 4.08 FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON COMPANY (OR APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. HANGERS NOT SHOWN SHALL BE SIMPSON HU OF SIZE RECOMMENDED FOR MEMBER. ALL CONNECTORS SHALL BE GALVANIZED. UNLESS SHOWN OTHERWISE, INSTALL MAXIMUM SIZE AND NUMBER OF FASTENERS SHOWN IN LATEST SIMPSON CATALOG.
- 4.09 SUBMIT PRODUCT DATA FOR SAWN LUMBER/TIMBER, CONNECTION MATERIALS, AND OTHER ACCESSORIES FOR APPROVAL.

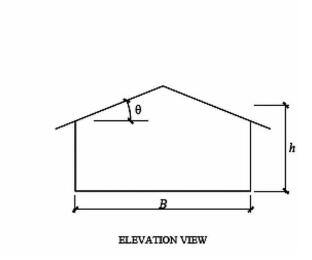
							WIND PRI	ESSURES - COM	PONENTS AND	CLADDING ROO	F HEIGHT HIP RO	OF SLOPE 45 DEG	GREES							
				NOMI	NAL DESIGN WI	ND PRESSURES	(PSF)							ULTIMAT	TE DESIGN WINI	D PRESSURES (P	PSF)			
					EFFECTIVE V	VIND AREA									EFFECTIVE WI	ND AREA				
	1	10 SF	20 SF 50 SF 100 SF 500 SF 10 SF 20 SF 50 SF 100 SF						0 SF	5	600 SF									
Roof Zone																				
1	27.47	-52.45	23.45	-44.40	18.74	-34.99	14.99	-27.47	14.99	-27.47	45.79	-87.41	39.08	-74.00	31.24	-58.32	24.98	-45.79	24.98	-45.79
2	27.47	-61.81	23.45	-51.76	18.74	-39.99	14.99	-30.60	14.99	-30.60	45.79	-103.02	39.08	-86.26	31.24	-66.66	24.98	-50.99	24.98	-50.99
3	27.47	-80.55	23.45	-66.46	18.74	-50.00	14.99	-36.84	14.99	-36.84	45.79	-134.24	39.08	-110.77	31.24	-83.33	24.98	-61.40	24.98	-61.40
Overhang Zone																				
1	64.31	-101.78	58.51	-90.18	51.73	-76.61	46.31	-65.77	42.46	-58.07	107.19	-169.63	97.52	-150.29	86.22	-127.69	77.19	-109.62	70.76	-96.78
2	64.31	-111.14	58.51	-97.53	51.73	-81.61	46.31	-68.90	42.46	-61.19	107.19	-185.24	97.52	-162.55	86.22	-136.02	77.19	-114.83	70.76	-101.98
3	64.31	-129.87	58.51	-112.24	51.73	-91.62	46.31	-75.14	42.46	-67.43	107.19	-216.46	97.52	-187.06	86.22	-152.69	77.19	-125.23	70.76	-112.39
Wall Zone																				
4	36.84	-39.96	35.06	-38.18	32.99	-36.11	31.33	-34.45	27.47	-30.59	61.40	-66.60	58.44	-63.64	54.98	-60.18	52.21	-57.41	45.79	-50.99
5	36.84	-49.33	35.06	-45.77	32.99	-41.62	31.33	-38.30	27.47	-30.59	61.40	-82.21	58.44	-76.29	54.98	-69.37	52.21	-63.83	45.79	-50.99

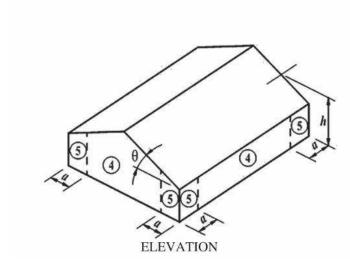
1. POS - INDICATED POSITIVE PRESSURE (INWARD OR TOWARD THE SURFACES) NEG - INDICATES NEGATIVE PRESSURE (OUTWARD OR AWAY FROM SURFACÉS)

MINIMUM PRESSURE ON ANY SURFACE SHALL BE 16 PSF.

4. TABLE PRESSURES ARE FOR SQUARE FOOT (SF) TRIBUTARY AREA, FOR OTHER AREAS LINEAR INTERPOLATION BETWEEN AREAS ABOVE







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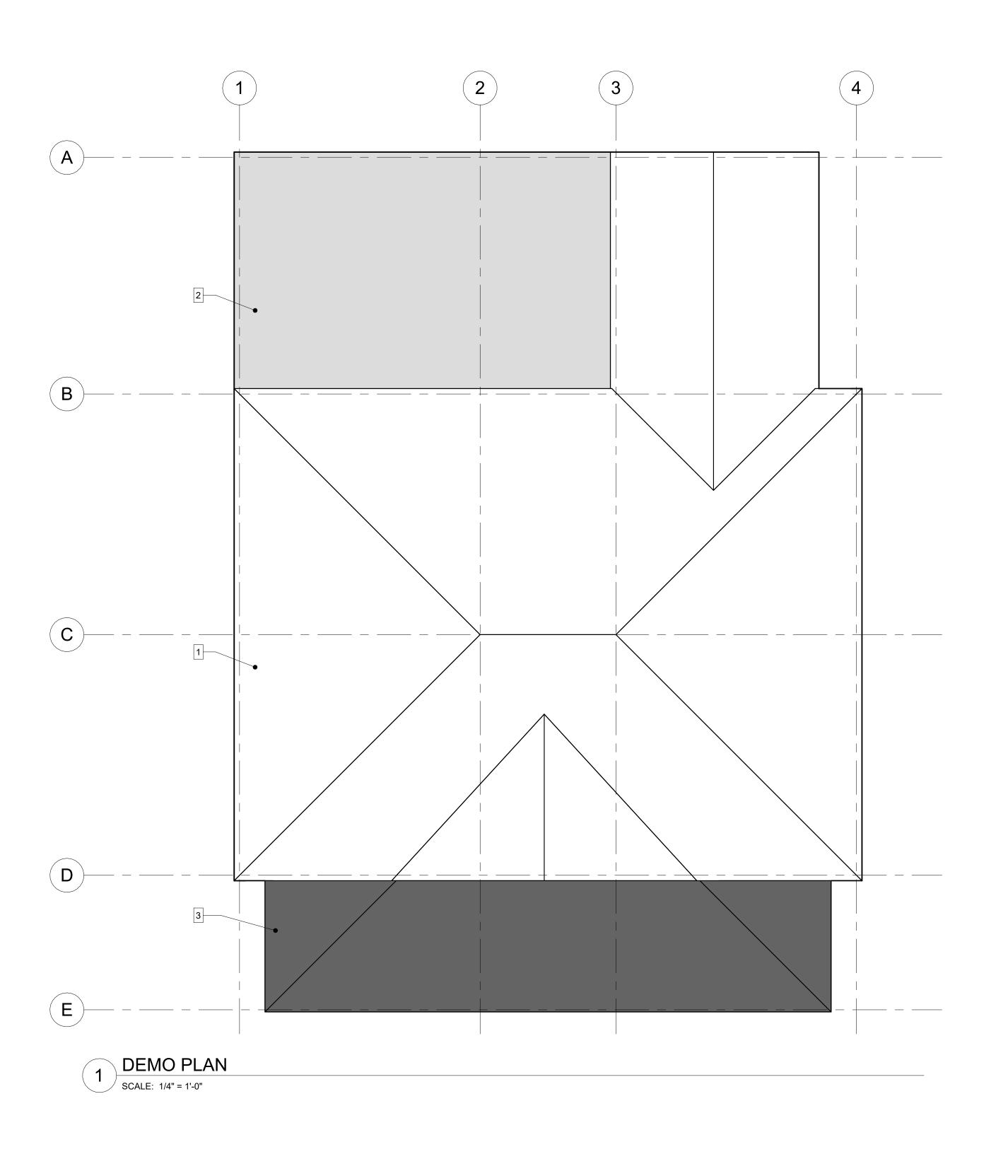
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Key Plan	:	

Date:	07/17/2025
Drawn By:	RG
Reviewed By:	CK
Approved By:	RJ
W&S Project No.:	ENG25-0681

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**GENERAL NOTES** 

Sheet Number:



Project:

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KEYNOTE LEGEND:

1.) COMPLETE REMOVAL OF METAL DECK PANELS AND NAILER BOARDS AT HIP & GABLE ROOFS. COMPLETE REMOVAL OF INSULATION BETWEEN CEILING BEAMS UNDER HIP & GABLE ROOF AREAS.

2.) COMPLETE REMOVAL OF METAL DECK PANELS, NAILER BOARDS AND INSULATION AT MONOSLOPE ROOF.

3.) COMPLETE REMOVAL OF METAL DECK PANELS AND NAILER BOARDS AT PORCH HIP ROOF.

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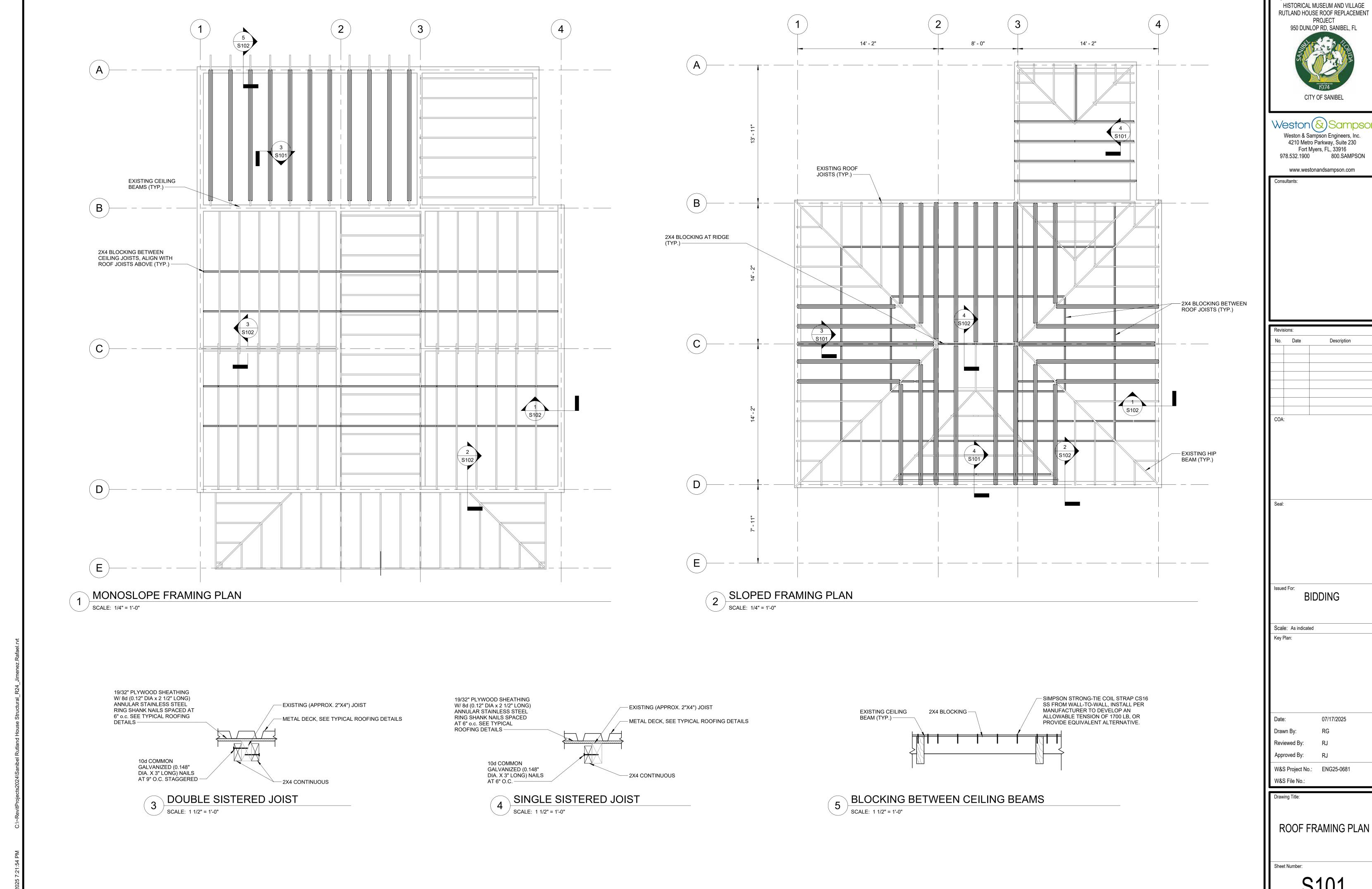
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ROOF DEMO PLAN

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HISTORICAL MUSEUM AND VILLAGE RUTLAND HOUSE ROOF REPLACEMENT 950 DUNLOP RD, SANIBEL, FL

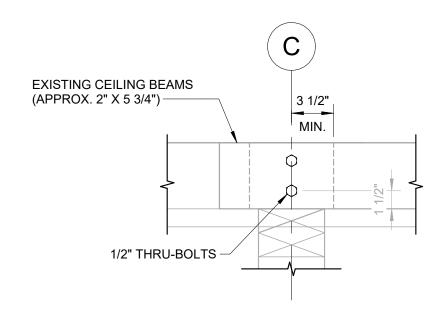
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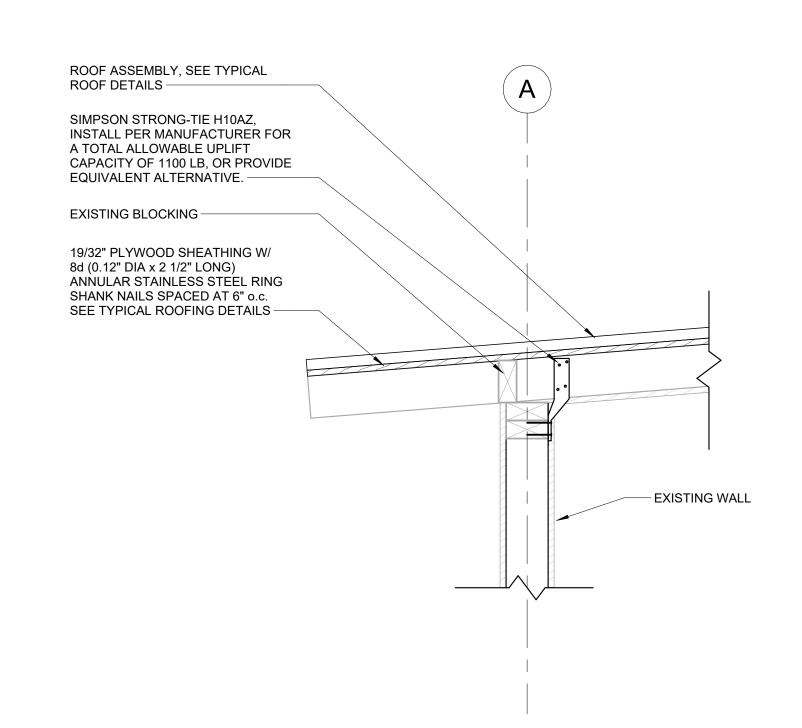
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1 TIE DOWNS AT PERIMETER AT 2X4 BLOCKING

SCALE: 1 1/2" = 1'-0"

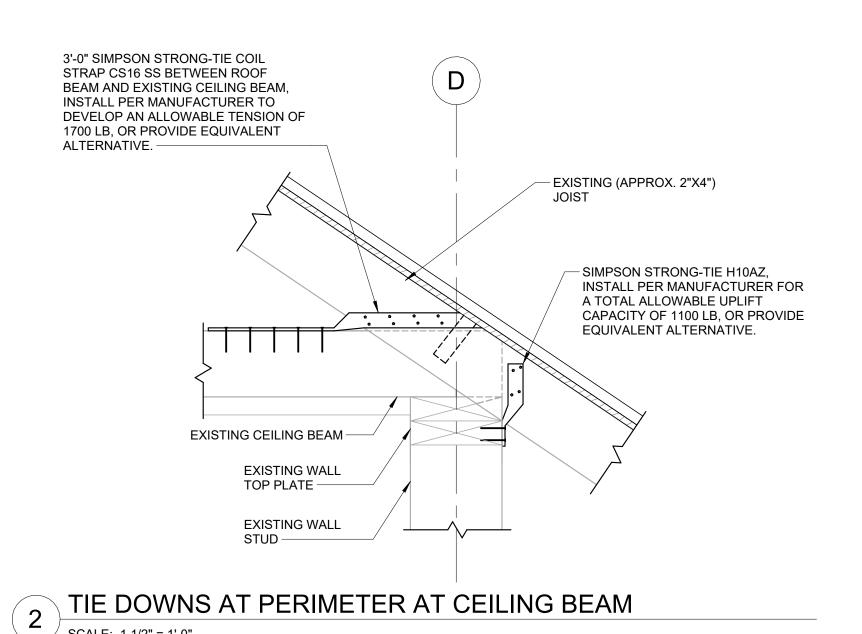


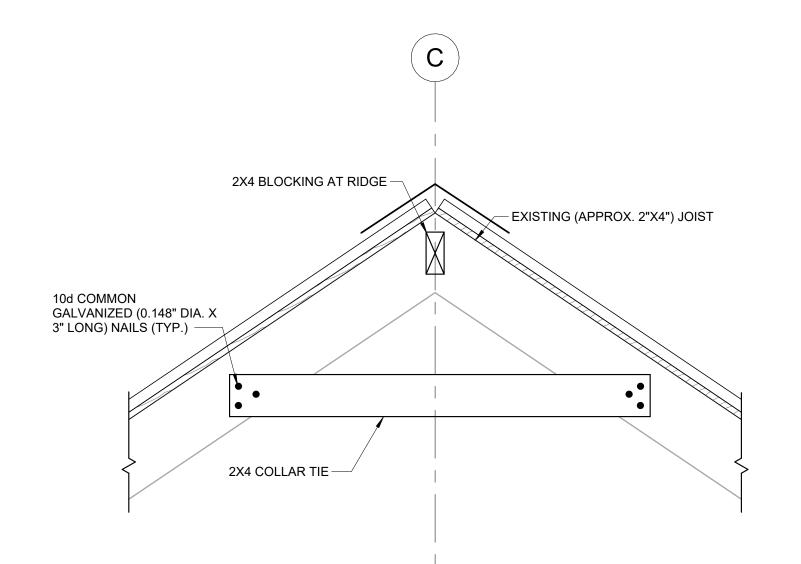
3 CONNECTION BETWEEN EXISTING CEILING BEAMS AT GRID C
SCALE: 1 1/2" = 1'-0"



5 HURRICANE STRAPS AT MONOSLOPE ROOF

SCALE: 1 1/2" = 1'-0"





COLLAR TIES AND RIDGE BLOCKING

SCALE: 1 1/2" = 1'-0"

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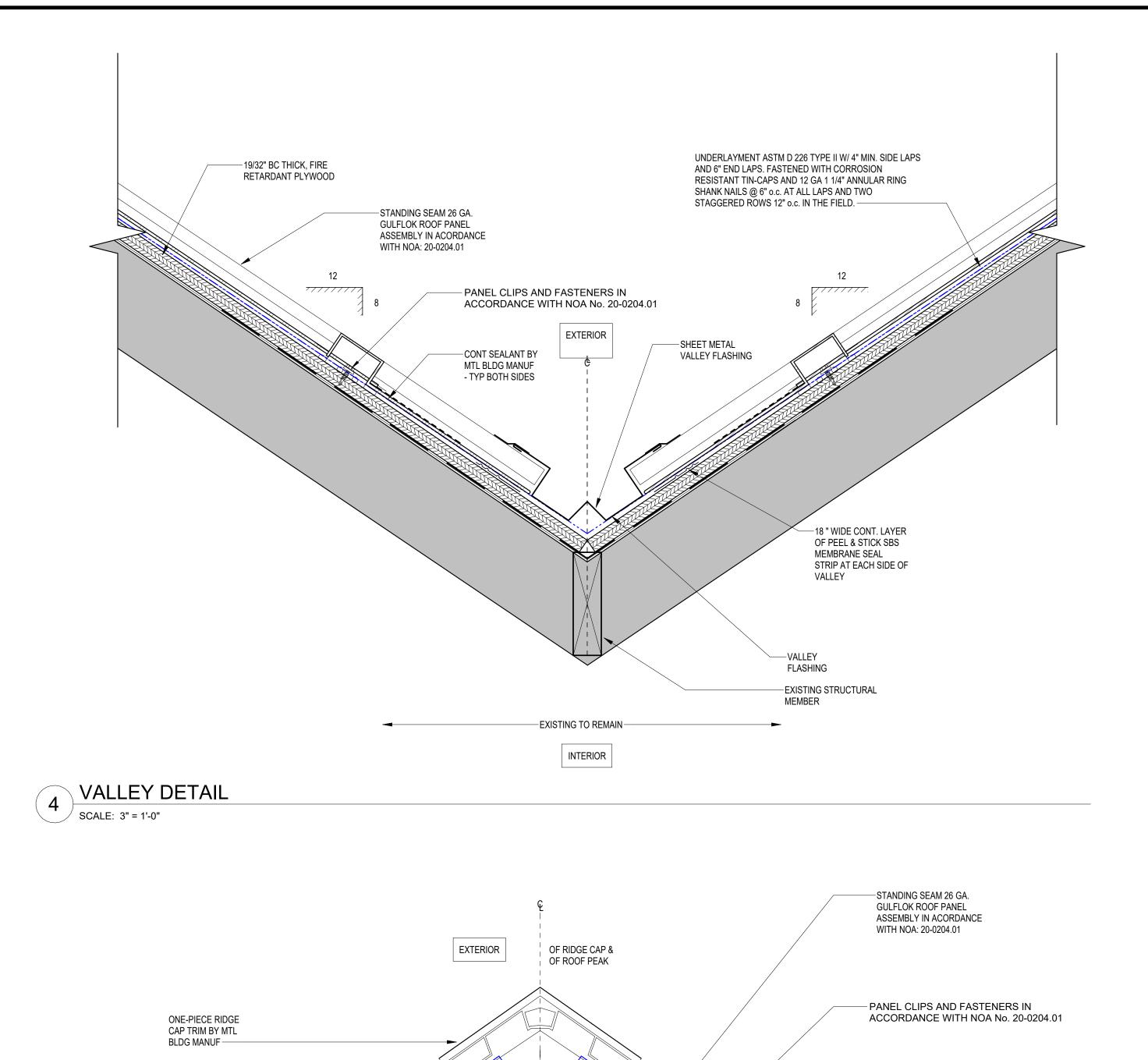
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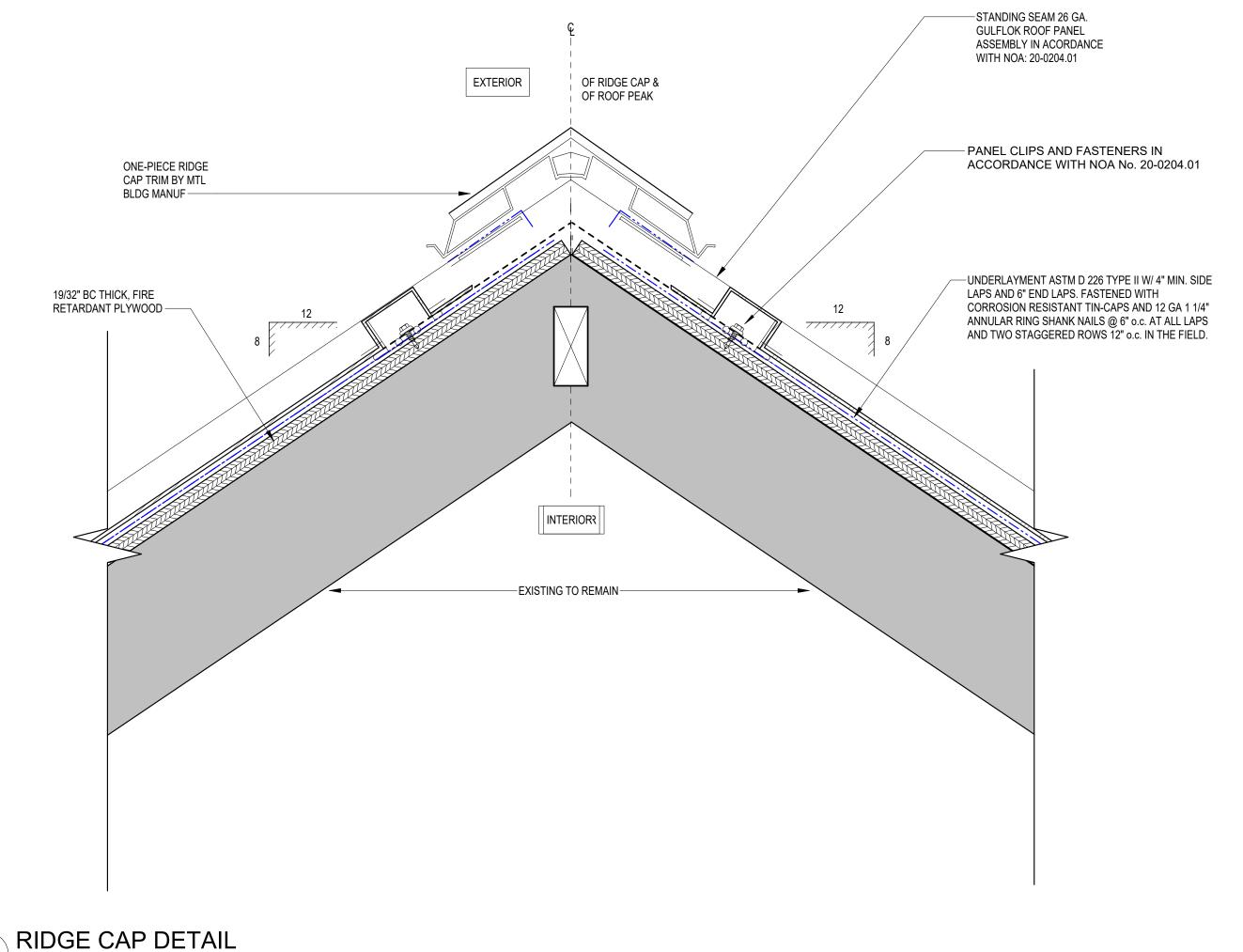
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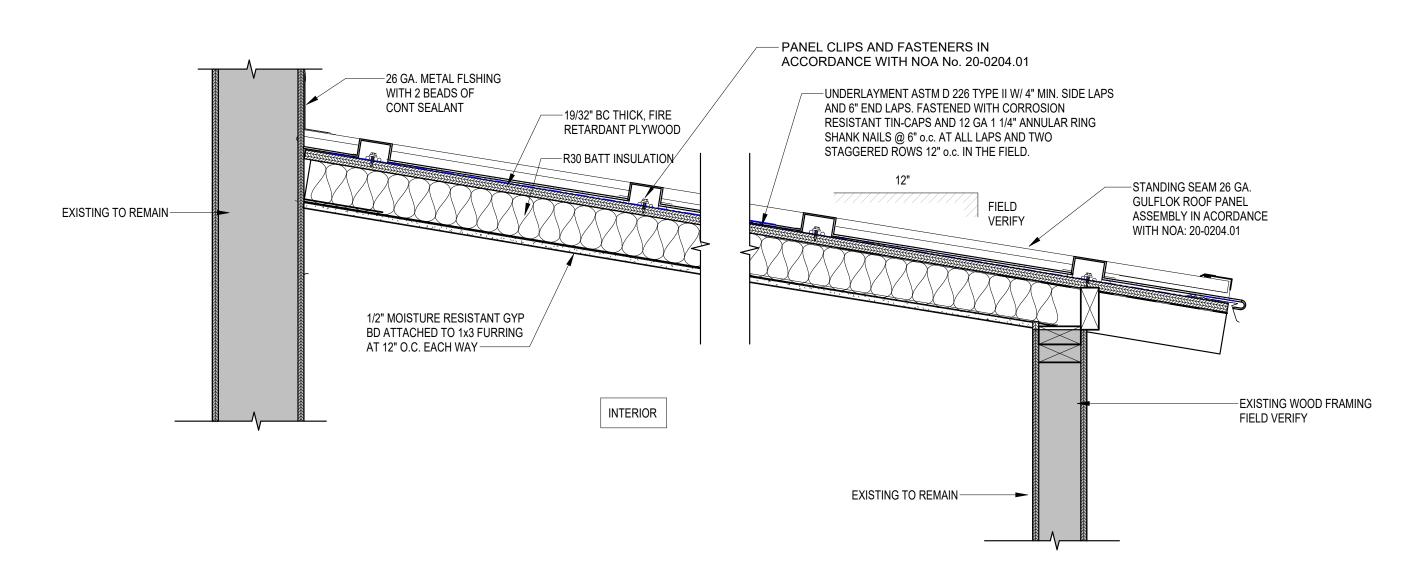
ROOF FRAMING SECTIONS

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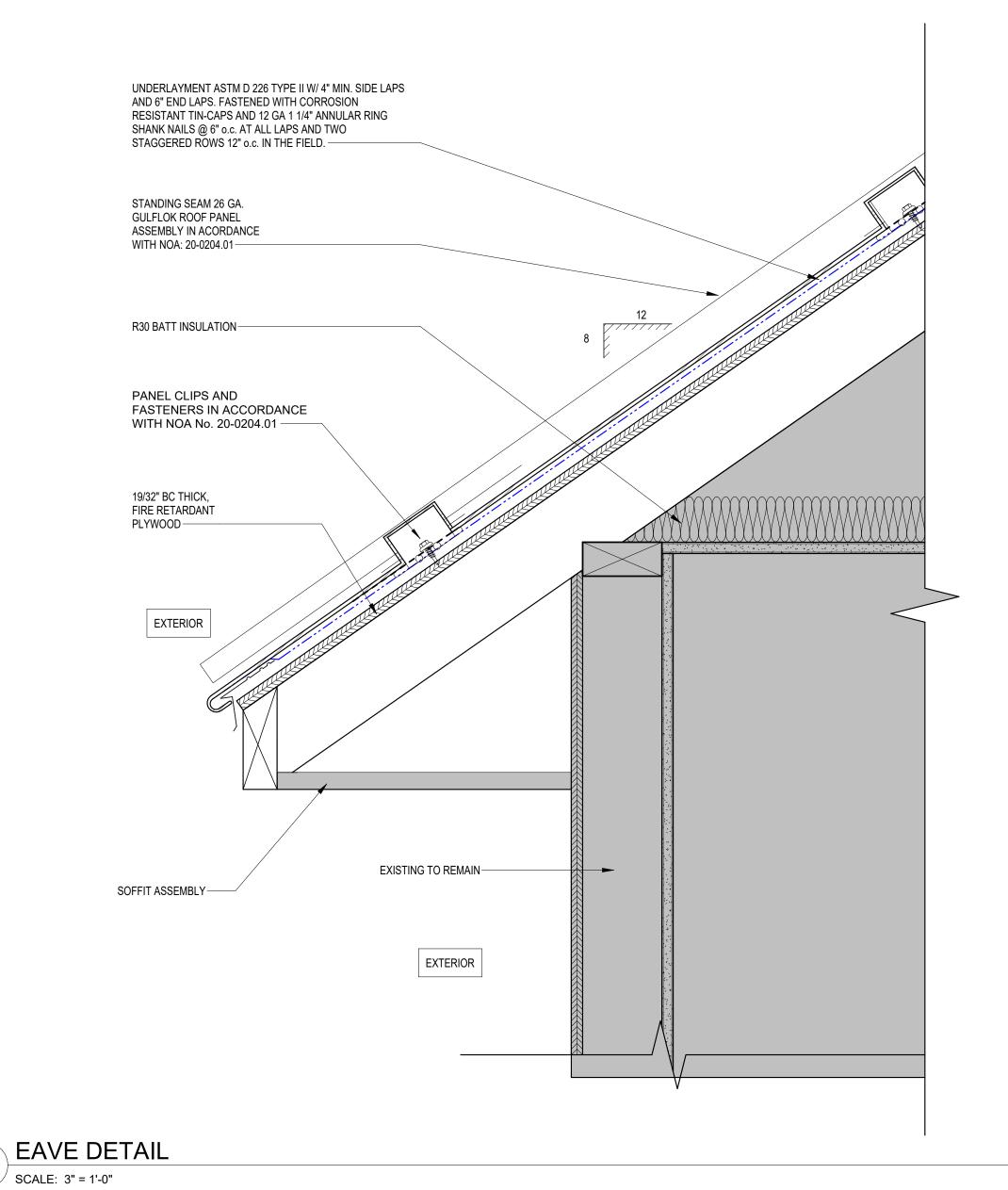






MONOSLOPE STANDING SEAM ROOF DETAIL

SCALE: 1 1/2" = 1'-0"



ROOF DETAILS Sheet Number:

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