SANFORD LAB HOMESTAKE VISITOR CENTER

630 EAST SUMMIT STREET LEAD, SOUTH DAKOTA **ROOF REPLACEMENT PROJECT**



DRAWING CONTENTS

ARCHITECTURAL DRAWINGS

- A0.00 COVER SHEET
- MAIN FLOOR & REFLECTED CEILING PLANS SEPARATE MAINTENANCE A2.10
- A2.30 ROOF PLAN
- **ROOF DETAILS** A3.30
- ROOF DETAILS LARGE A3.31
- A3.32 ROOF LADDER DETAILS

INTERIOR REPAIRS WILL BE BY CONTRACT AND ARE NOT PART OF ROOF REPLACEMENT PROJECT



CODE USED: OCCUPANCY GROL

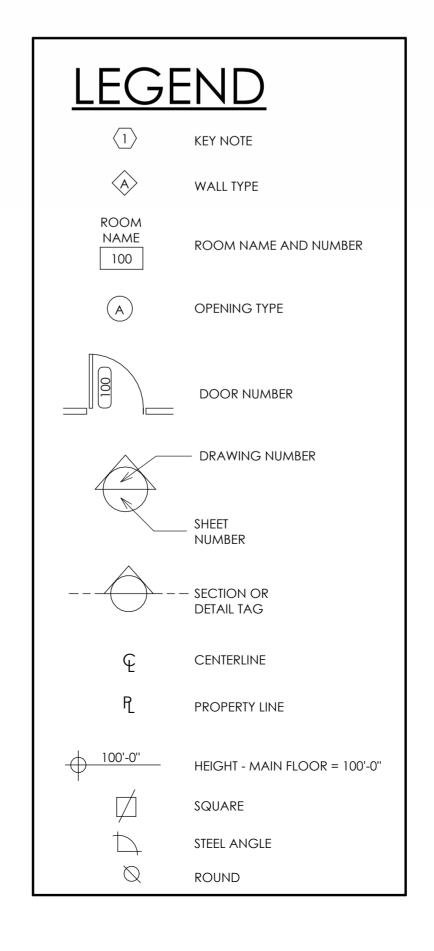
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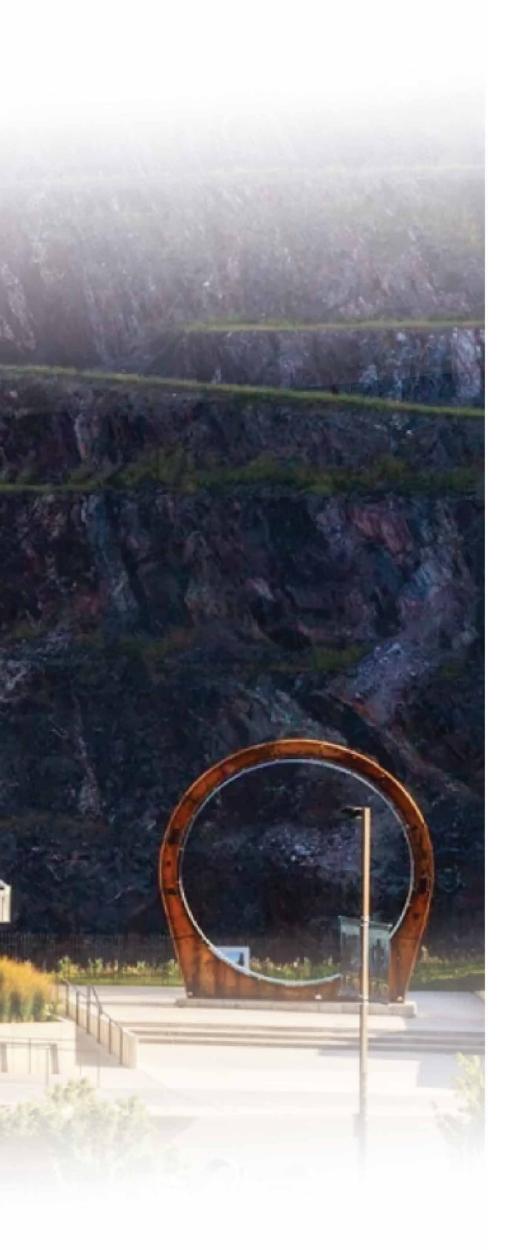
ALLOWABLE AREA/S

ACTUAL AREA:

FIRE PROTECTION SY

	2021 INTERNATIONAL BUILDING CODE (IBC)
UP:	A-3 / B / E / M / S-1
CTION:	TYPE VB
stories:	N/A
	N/A
YSTEM:	NONE





TECTURE 08 SHERIDAN LAKE ROAL APID CITY, SOUTH DAKOTA 57702 TEL 605-341-2066 RINGING ARCHITECTURE TO YOUR WORLD

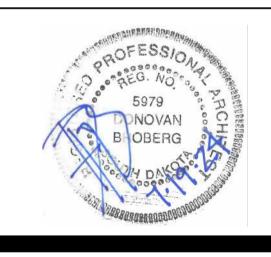
DATE:

07/19/2024

PROJECT MANAGER: DONOVAN BROBERG

PROJECT NUMBER:

2023-011





SLHVC ROOF REPLACEMENT

630 EAST SUMMIT ST LEAD, SOUTH DAKOTA

COVER SHEET

AU.00

ABBREVIATIONS

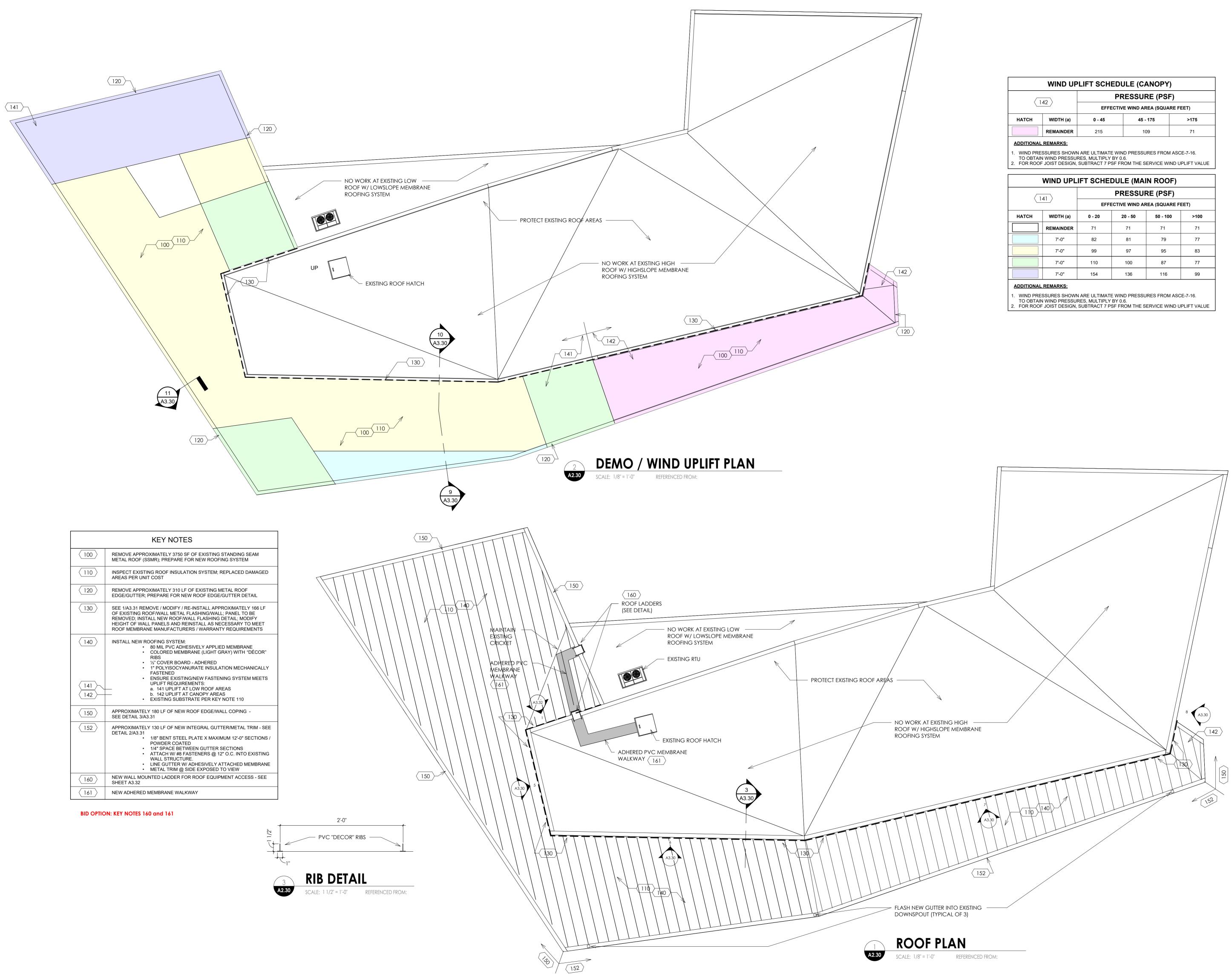
(ALL MAY NOT BE USED IN DRAWING SET)

/ PER a AT AFF ABOVE FINISH FLOOR ALUMINUM ALUM APC ACOUSTIC PANEL CEILING BRG BEARING CC CENTER TO CENTER CMU CONCRETE MASONRY UNIT COORD COORDINATE CPT CARPET CT CERAMIC TILE DR DOOR ΕA EACH ELEC'L ELECTRICAL EQUAL EQ FR FRAME FOOT FT GYPBD GYPSUM BOARD HМ HOLLOW METAL INSULATED GLASS IG MAX MAXIMUM MECHANICA MECH'L MIN MINIMUM OC ON CENTER PT PAINT REV REVERSE SIM SIMILAR STRUCT'L STRUCTURAL TO BE DETERMINED TBD TEXT TEXTURE tsg TEMPERED SAFETY GLASS TYP TYPICAL UNO UNLESS NOTED OTHERWISE VB VINYL BASE VCT VINYL COMPOSITION TILE W/ WITH WD WOOD WG WIRE GLASS

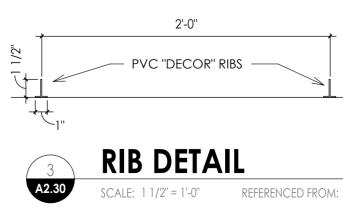




NAME	MAKE THE FOLLOWING REPAIRS
BULE	VERIFY NO DAMAGE
ICE	(170)
RAGE	(170)
ICE	(170)
ICE	(170)
RENCE	
	VERIFY NO OTHER REPAIRS



KEY NOTES				
(100)	REMOVE APPROXIMATELY 3750 SF OF EXISTING STANDING SEAM METAL ROOF (SSMR); PREPARE FOR NEW ROOFING SYSTEM			
(110)	INSPECT EXISTING ROOF INSULATION SYSTEM; REPLACED DAMAGED AREAS PER UNIT COST			
(120)	REMOVE APPROXIMATELY 310 LF OF EXISTING METAL ROOF EDGE/GUTTER; PREPARE FOR NEW ROOF EDGE/GUTTER DETAIL			
(130)	SEE 1/A3.31 REMOVE / MODIFY / RE-INSTALL APPROXIMATELY 166 LF OF EXISTING ROOF/WALL METAL FLASHING/WALL; PANEL TO BE REMOVED; INSTALL NEW ROOF/WALL FLASHING DETAIL; MODIFY HEIGHT OF WALL PANELS AND REINSTALL AS NECESSARY TO MEET ROOF MEMBRANE MANUFACTURERS / WARRANTY REQUIREMENTS			
(140) (141) (141) (142)	INSTALL NEW ROOFING SYSTEM: 80 MIL PVC ADHESIVELY APPLIED MEMBRANE COLORED MEMBRANE (LIGHT GRAY) WITH "DÉCOR" RIBS ½" COVER BOARD - ADHERED 1" POLYISOCYANURATE INSULATION MECHANICALLY FASTENED ENSURE EXISTING/NEW FASTENING SYSTEM MEETS UPLIFT REQUIREMENTS: a. 141 UPLIFT AT LOW ROOF AREAS b. 142 UPLIFT AT CANOPY AREAS EXISTING SUBSTRATE PER KEY NOTE 110 			
(150)	APPROXIMATELY 180 LF OF NEW ROOF EDGE/WALL COPING - SEE DETAIL 3/A3.31			
(152)	 APPROXIMATELY 130 LF OF NEW INTEGRAL GUTTER/METAL TRIM - SEE DETAIL 2/A3.31 1/8" BENT STEEL PLATE X MAXIMUM 12'-0" SECTIONS / POWDER COATED 1/4" SPACE BETWEEN GUTTER SECTIONS ATTACH W/ #8 FASTENERS @ 12" O.C. INTO EXISTING WALL STRUCTURE. LINE GUTTER W/ ADHESIVELY ATTACHED MEMBRANE METAL TRIM @ SIDE EXPOSED TO VIEW 			
(160)	NEW WALL MOUNTED LADDER FOR ROOF EQUIPMENT ACCESS - SEE SHEET A3.32			
(161)	NEW ADHERED MEMBRANE WALKWAY			



WIND UPLIFT SCHEDULE (CANOPY)						
(142)		PRESSURE (PSF)				
		EFFECTIVE WIND AREA (SQUARE FEET)				
НАТСН	WIDTH (a)	0 - 45	45	- 175	>175	
	REMAINDER	215	1	09	71	
ADDITIONAL REMARKS:						
1. WIND PRESSURES SHOWN ARE ULTIMATE WIND PRESSURES FROM ASCE-7-16.						
TO OBTAIN WIND PRESSURES, MULTIPLY BY 0.6. 2. FOR ROOF JOIST DESIGN, SUBTRACT 7 PSF FROM THE SERVICE WIND UPLIFT VALUE						
WIND UPLIFT SCHEDULE (MAIN ROOF)						
(141)		PRESSURE (PSF)				
		EFFECTIVE WIND AREA (SQUARE FEET)				
НАТСН	WIDTH (a)	0 - 20	20 - 50	50 - 100	>100	



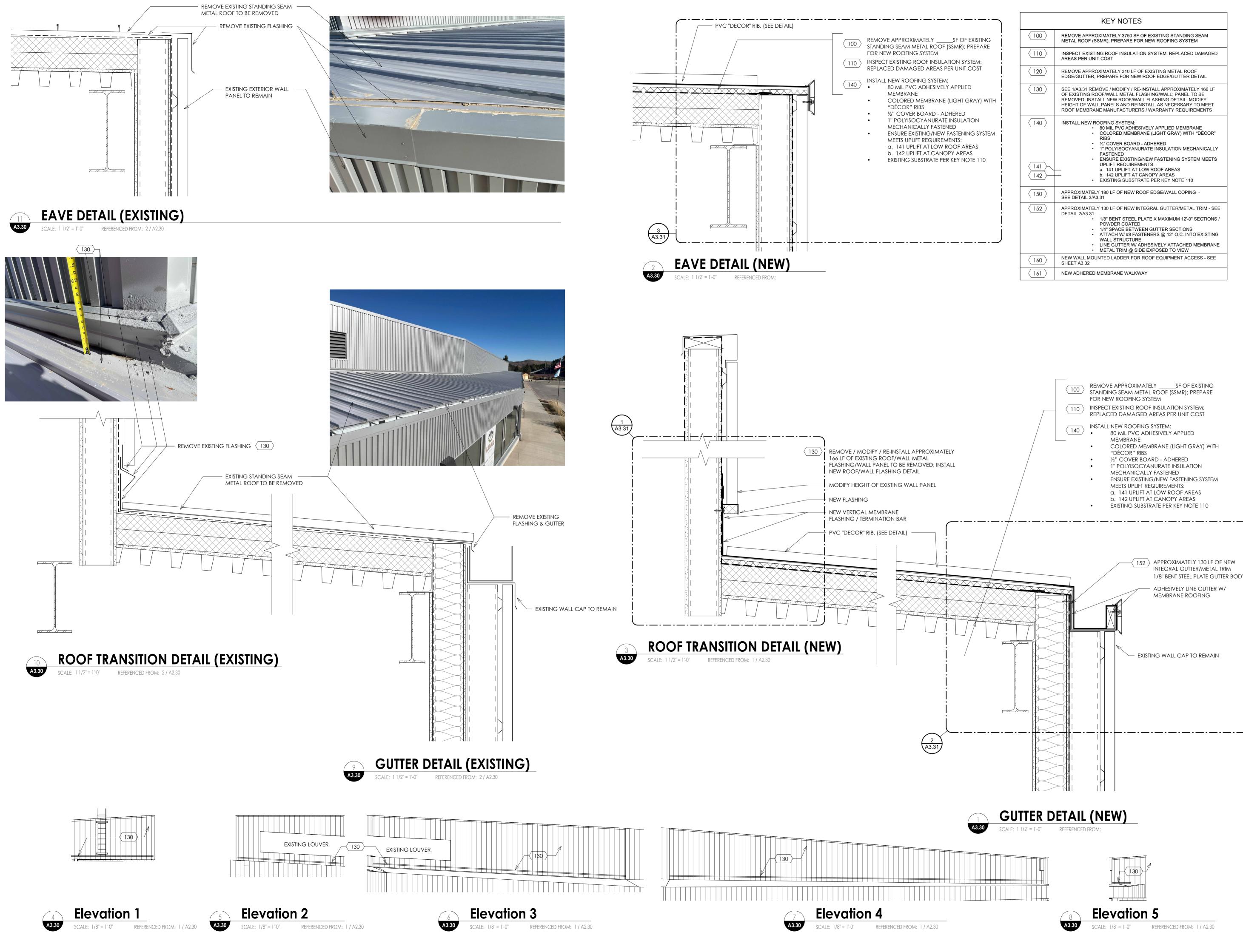


SLHVC ROOF REPLACEMENT

630 EAST SUMMIT ST LEAD, SOUTH DAKOTA

ROOF PLAN

A2.30



KEY NOTES 100 REMOVE APPROXIMATELY 3750 SF OF EXISTING STANDING SEAM METAL ROOF (SSMR); PREPARE FOR NEW ROOFING SYSTEM 110 INSPECT EXISTING ROOF INSULATION SYSTEM; REPLACED DAMAGED AREAS PER UNIT COST 120 REMOVE APPROXIMATELY 310 LF OF EXISTING METAL ROOF EDGE/GUTTER; PREPARE FOR NEW ROOF EDGE/GUTTER DETAIL 130 SEE 1/A3.31 REMOVE / MODIFY / RE-INSTALL APPROXIMATELY 166 LF OF EXISTING ROOF/WALL METAL FLASHING/WALL; PANEL TO BE REMOVED; INSTALL NEW ROOF/WALL FLASHING DETAIL; MODIFY HEIGHT OF WALL PANELS AND REINSTALL AS NECESSARY TO MEET ROOF MEMBRANE MANUFACTURERS / WARRANTY REQUIREMENTS 140 INSTALL NEW ROOFING SYSTEM: • COLORED MEMBRANE (LIGHT GRAY) WITH "DÉCOR" RIBS • ½' COVER BOARD - ADHERED • 1" POLYISOCYANURATE INSULATION MECHANICALLY FASTENED • ENSURE EXISTING/NEW FASTENING SYSTEM MEETS UPLIFT REQUIREMENTS: • 141 UPLIFT AT LOW ROOF AREAS • 142 UPLIFT AT CANOPY AREAS • LA12 UPLIFT AT CANOPY AREAS • EXISTING SUBSTRATE PER KEY NOTE 110 150 APPROXIMATELY 180 LF OF NEW INTEGRAL GUTTER/METAL TRIM - SEE DETAIL 2/A3.31 152 APPROXIMATELY 130 LF OF NEW INTEGRAL GUTTER/METAL TRIM - SEE DETAIL 2/A3.31 152 APPROXIMATELY 130 LF OF NEW INTEGRAL GUTTER/METAL TRIM - SEE DETAIL 2/A3.31 152 APPROXIMATELY 130 LF OF NEW INTEGRAL GUTTER SECTIONS / POWDER COATED • 1/4" SPACE BET WEEN GUTTER SECTIONS • ATTACH WI #8 FASTENERS @ 12" O.C. INTO EXISTING WALL STRUCTURE. • LINE GUTTER W ADHESIVELY ATTACHED MEMBRANE • METAL TRIM @ SIDE EXPOSED TO VIEW 160 NEW WALL MOUNTED LADDER FOR ROOF EQUIPMENT ACCESS - SEE SHE					
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160 SHEET A3.32	(152)	 DETAIL 2/A3.31 1/8" BENT STEEL PLATE X MAXIMUM 12'-0" SECTIONS / POWDER COATED 1/4" SPACE BETWEEN GUTTER SECTIONS ATTACH W/ #8 FASTENERS @ 12" O.C. INTO EXISTING WALL STRUCTURE. LINE GUTTER W/ ADHESIVELY ATTACHED MEMBRANE 			
	(160)				
	(161)	NEW ADHERED MEMBRANE WALKWAY			



REMOVE APPROXIMATELY _____SF OF EXISTING 100 REMOVE APPROXIVIATELT ______OF OF EAGEN FOR NEW ROOFING SYSTEM

REPLACED DAMAGED AREAS PER UNIT COST

- 1/2" COVER BOARD ADHERED 1" POLYISOCYANURATE INSULATION
- MECHANICALLY FASTENED

ENSURE EXISTING/NEW FASTENING SYSTEM MEETS UPLIFT REQUIREMENTS:

- a. 141 UPLIFT AT LOW ROOF AREAS b. 142 UPLIFT AT CANOPY AREAS
- EXISTING SUBSTRATE PER KEY NOTE 110

DATE:

APPROXIMATELY 130 LF OF NEW INTEGRAL GUTTER/METAL TRIM 1/8" BENT STEEL PLATE GUTTER BODY

- ADHESIVELY LINE GUTTER W/ MEMBRANE ROOFING

- EXISTING WALL CAP TO REMAIN



PROJECT MANAGER: DONOVAN BROBERG

07/19/2024



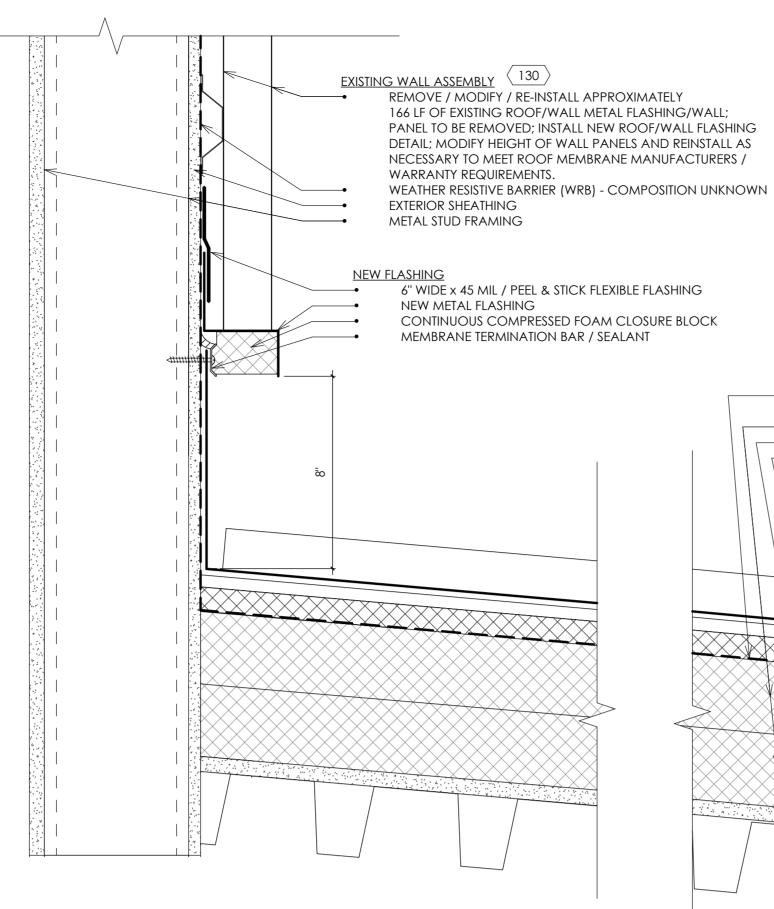
SLHVC ROOF REPLACEMENT

630 EAST SUMMIT ST LEAD, SOUTH DAKOTA

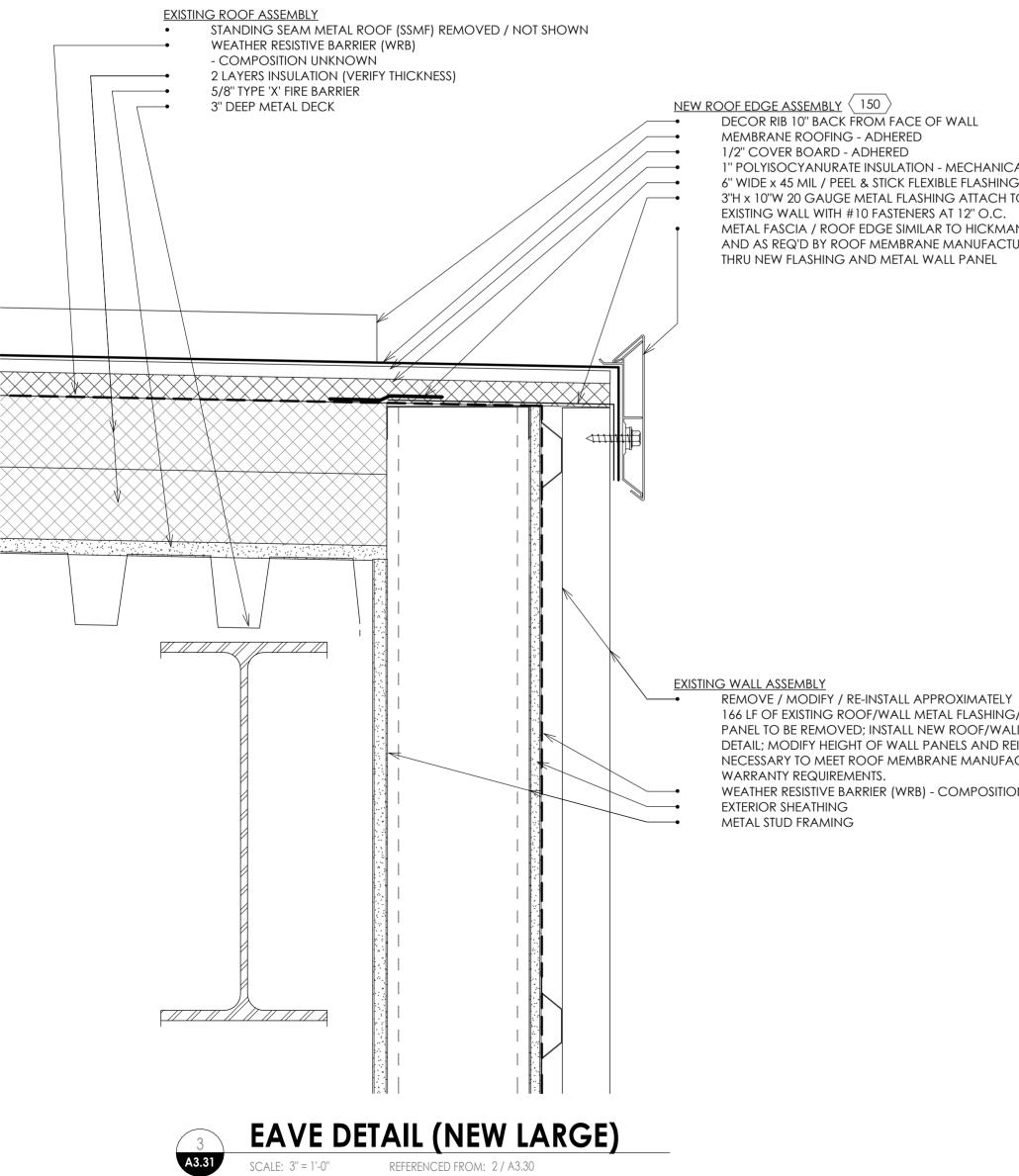
ROOF DETAILS

A3.30

SCALE: 1/8" = 1'-0" REFERENCED FROM: 1 / A2.30

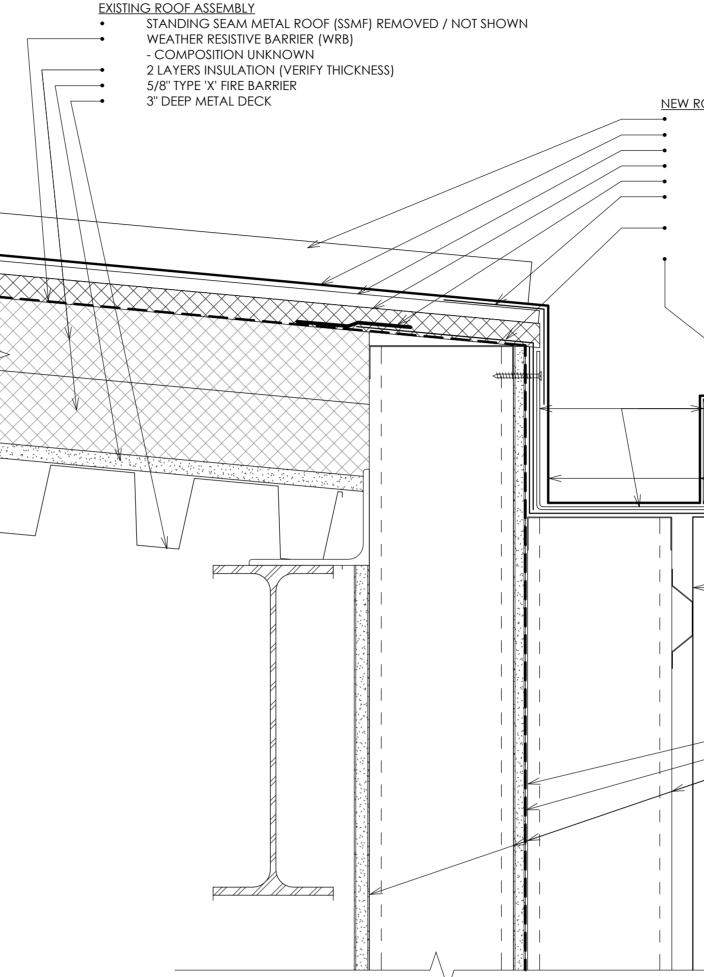






ROOF TRANSITION DETAIL (NEW LARGE)

1" POLYISOCYANURATE INSULATION - MECHANICALLY FASTENED 6" WIDE x 45 MIL / PEEL & STICK FLEXIBLE FLASHING 3"H x 10"W 20 GAUGE METAL FLASHING ATTACH TO TOP OF EXISTING WALL WITH #10 FASTENERS AT 12" O.C. METAL FASCIA / ROOF EDGE SIMILAR TO HICKMAN AF-70 (7") AND AS REQ'D BY ROOF MEMBRANE MANUFACTURER ATTACH THRU NEW FLASHING AND METAL WALL PANEL





GUTTER DETAIL (NEW LARGE) SCALE: 3" = 1'-0" REFERENCED FROM: 1 / A3.30

166 LF OF EXISTING ROOF/WALL METAL FLASHING/WALL; PANEL TO BE REMOVED; INSTALL NEW ROOF/WALL FLASHING DETAIL; MODIFY HEIGHT OF WALL PANELS AND REINSTALL AS NECESSARY TO MEET ROOF MEMBRANE MANUFACTURERS /

WEATHER RESISTIVE BARRIER (WRB) - COMPOSITION UNKNOWN



NEW ROOF EDGE ASSEMBLY $\langle 152 \rangle$

DECOR RIB MEMBRANE ROOFING - ADHERED

1/2" COVER BOARD - ADHERED

1" POLYISOCYANURATE INSULATION - MECHANICALLY FASTENED 6" WIDE x 45 MIL / PEEL & STICK FLEXIBLE FLASHING

APPROX. 4" SLOPE x 4"H METAL FLASHING TO SUPPORT CORNER TRANSITION

OF MEMBRANE ROOFING. APPROX. 7" SLOPE x 7"H METAL FLASHING. LAP OVER VERTICAL LEG

OF EXISTING METAL WALL FLASHING. METAL FASCIA / ROOF EDGE SIMILAR TO HICKMAN AF-70 (7")

AND AS REQ'D BY ROOF MEMBRANE MANUFACTURER.

-----____•

1/8" BENT STEEL PLATE x U-SHAPED GUTTER HOUSING WITH 2X BLOCKING ON SOUTH EDGE

- MEMBRANE ROOFING - ADHERED

EXISTING WALL ASSEMBLY (130) REMOVE / MODIFY / RE-INSTALL APPROXIMATELY 166 LF OF EXISTING ROOF/WALL METAL FLASHING/WALL; PANEL TO BE REMOVED; INSTALL NEW ROOF/WALL FLASHING DETAIL; MODIFY HEIGHT OF WALL PANELS AND REINSTALL AS NECESSARY TO MEET ROOF MEMBRANE MANUFACTURERS / WARRANTY REQUIREMENTS. WALL METAL FLASHING WEATHER RESISTIVE BARRIER (WRB) - COMPOSITION UNKNOWN EXTERIOR SHEATHING METAL STUD FRAMING

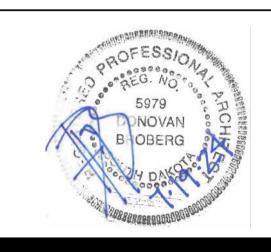
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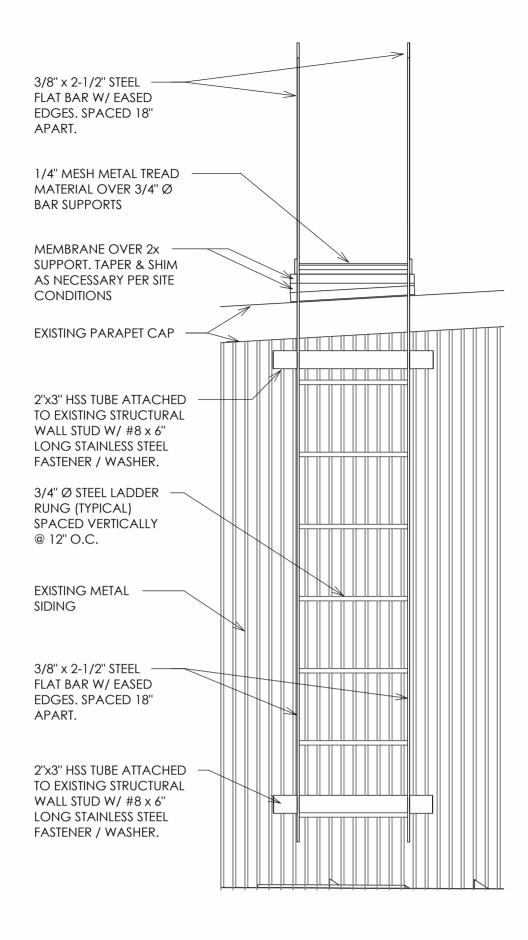
SLHVC ROOF REPLACEMENT

630 EAST SUMMIT ST LEAD, SOUTH DAKOTA

ROOF DETAILS LARGE

A3.31

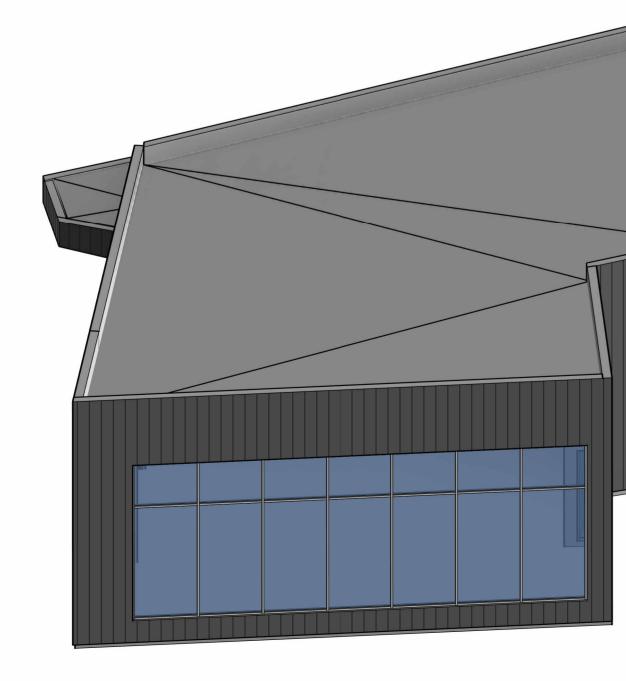
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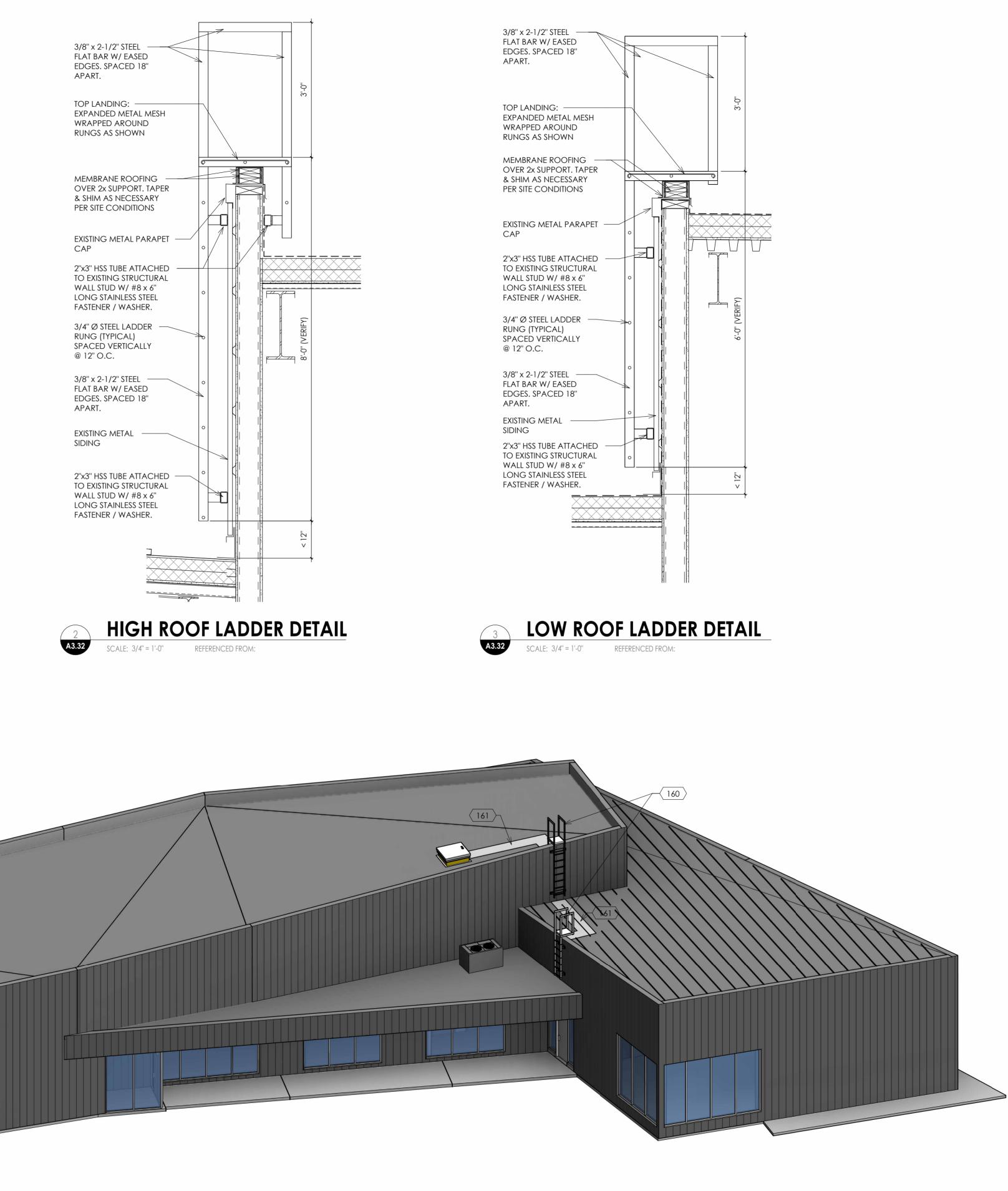


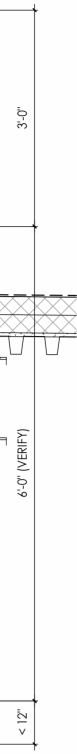






 $\overline{160}$ ROOF LADDER





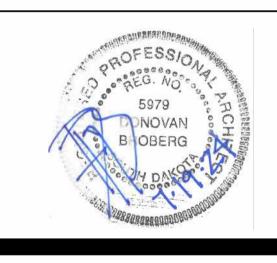
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07/19/2024 DATE:

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630 EAST SUMMIT ST LEAD, SOUTH DAKOTA

ROOF LADDER DETAILS

A3.32