



Addendum No. 1
July 20, 2023

Re-Bid Prosser Hamilton Lab Bldg Roof
Replacement
Washington State University
Prosser, WA

Project No. 1933-2023
Washington State University
Facilities Services, Capital

Addendum No. 1
Date issued

Re-Bid Prosser Hamilton Lab Bldg Roof Replacement
Washington State University
Prosser, WA

Bid Date: August 3, 2023

1. This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated July 12, 2023, and any prior addenda, as noted below.
2. Please acknowledge receipt of this addendum on the Form of Proposal.

This Addendum consists of ~~twenty~~-three total pages including the following Attachments:

TPO Roofing Substitution
Full Set Drawings
R-1 – Overflow Pipe Revision
R-2 – Overflow Pipe Revision

Changes to prior Addenda:

N/A

Changes to Bidding Requirements:

None

Changes to Specifications:

None

Approved Substitution Requests:

Drawing or Specification	Item	Acceptable Substitution Manufacturer or Product
07 54 00	TPO Roofing	GAF TOP Membrane Roofing 60 Mils

Changes to Drawings:

DWG 1-1. Full Set Drawings

- Item 1. The drawings originally included in the advertisement were incomplete, bidders are to delete previously issued drawings and replace with complete set issued with this addendum.

DWG 1-2. Drawings A103 and A 104

- Item 1. Add the following note: The design goal for the sloped roof system is a minimum roof slope of 3/8"/foot. As noted in specification Section 075323, 2.04, the design to the tapered roof system is the responsibility of the bidder and will be reviewed as a required submittal. The systems shall be designed to meet the requirements of the project details to the greatest extent possible.

DWG 1-3. R1 – Overflow Pipe Revision

- Item 1. Provides clarification on the abs overflow pipe within C5 on Drawing A106.

DWG 1-4. R2 – Overflow Pipe Revision

- Item 1. Provides clarification on the parapet condition within A1 on Drawing A106.

END OF ADDENDUM No. 1

CSI Form 1.5C

SUBSTITUTION REQUEST (During the Bid Period)

Project: Prosser Hamilton Lab Roof Replacement Substitution Request Number: _____
 To: Craig Beaumont From: Matt Stenshoel - GAF
PDA Date: 7/19/23
 Re: Roofing Substitution Request A/E Project Number: _____
 Contract For: _____
 Specification Title: TPO Roofing Description: TPO Membrane Roofing 60 Mils
 Section: 075400 Page: 4 Article/Paragraph: 2.01A

Proposed Substitution: GAF TPO Membrane Roofing 60 Mils
 Manufacturer: GAF Address: 1 Campus Dr. Parsippany, NJ 07054 Phone: 208-519-1878
 Trade Name: _____ Model No.: _____

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: Matt Stenshoel - GAF
 Signed by: Matt Stenshoel
 Firm: _____
 Address: Mountain Region Territory Manager - Boise, ID
 Telephone: 208-519-1878

A/E's REVIEW AND ACTION

- ☒ Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☐ Substitution rejected - Use specified materials.
☐ Substitution Request received too late - Use specified materials.

Signed by: Matt Stenshoel Date: 7/20/23

Supporting Data Attached: ☐ Drawings ☒ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

GAF SAVaporRetarderXL

Self-Adhered Vapor Retarder



Product Description:

GAF SA Vapor Retarder XL is a self-adhered, vapor-inhibiting membrane designed for use in approved roofing membrane assemblies. It's composed of a tri-laminated woven polyethylene facer combined with an advanced, high-tack butyl rubber adhesive. The under-face is applied with a split silicone release film that is removed during installation. This uniquely durable product exhibiting high-tensile strength can be left exposed for up to 180 days when installed in accordance with published GAF specifications and details.*

Features and Benefits:

- ASTM E108 Class A and FM 4470 Class 1 Fire Ratings directly over steel deck****
- Designed to be self-sealing.
- Increased adhesion performance provides three times the peel strength compared to self-adhered modified bitumen vapor barriers.
- Use of a primer prior to installation is NOT required.
- Slip-resistant embossed walking surface.
- Extra-large roll size (603 square feet) results in fewer rolls and fewer field seams per job.

- Easy-to-peel, split-release film speeds the application process.
- Standard thickness is 31 mils; also available in 41 mils (contact your local GAF representative for details).
- Direct attachment at curbs and walls on TPO applications (refer to application instructions for approved adhesives).

Applicable Substrates:

GAF SA Vapor Retarder XL is designed to be applied to a variety of properly prepared decks or substrates:

- Steel
- Plywood/OSB
- HD ISO
- Concrete

Application:

GAF SA Vapor Retarder XL can be applied at temperatures as low as 25°F (-3.9°C) provided that the product has been stored in a heated area to ensure it is between 50°F – 100°F (10°C – 37.7°C) at time of installation. It is recommended that GAF SA Vapor Retarder XL be installed with minimum 3" (76.2 mm) side laps and 3" (76.2 mm) end laps.

Applicable Standards:

ASTM D5147, ASTM E2178, ASTM E96

* Refer to the appropriate application and specifications manual for the system being installed. Available at gaf.com.

** Values stated are approximate and subject to normal manufacturing variation. These values are not guaranteed and are provided solely as a guide.

*** Thicker/heavier product available by special request only and sold as SA Vapor Retarder XL40.

**** Refer to www.RoofNav.com for actual assemblies.

Product Specifications (approximate**)

	STANDARD XL ROLL	XL (41 MILS)
THICKNESS	31 mils	41 mils
ROLL WEIGHT	97 lb.	129 lb.
ROLLS SIZE	6 squares	
ROLL LENGTH	105'	
ROLL WIDTH	69"	

Product Specifications (approximate**)

PROPERTY	MD VALUE	XMD VALUE	TEST METHOD
Thickness, mils (mm)	31 (.79)		ASTM D1970
Thickness***, mils (mm)	41 (1.04)		ASTM D1970
Min. Tensile strength, lbf/in (kN/m)	70 (12.3)	70 (12.3)	ASTM D5147
Min. Ultimate elongation @ 73.4°F (23°C), %	31	31	ASTM D5147
Min. Tear resistance, lbf (N)	95 (423)	110 (489)	ASTM D5147
Min. Static puncture, lbf (N)	90 (400)	90 (400)	ASTM E154
Min. Lap adhesion, lbf/ft (N/m)	24 (350)	24 (350)	ASTM D1876
Min. Water absorption, %	0.01	0.01	ASTM D5147
Min. Peel resistance on steel, lbf/in (N/m)	25 (4,378)		ASTM D903
Max. Cold bending, °F (°C)	-30 (-34.4)		ASTM D5147
Max. Water vapor permeance, perm (ng/Pa.s.m²)	0.03 (1.7)		ASTM E96
Max. Air permeability, L/s.m²	0.001		ASTM E2178



Visit gaf.com/SAVaporRetarderXL

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Flat Polyiso with GRF Facers



Description:

EnergyGuard™ Polyiso Insulation board is made of glass fiber-reinforced cellulosic felt (GRF) facers bonded to a core of polyisocyanurate foam.

Features and Benefits:

- Versatile — Approved component in single ply, BUR and modified bitumen systems, with a variety of attachment methods: mechanically attached, fully adhered, loose laid and ballasted
- Approved for direct application to steel decks
- High insulation value — polyiso insulation has the highest R-value per inch compared to any other type of non-polyiso insulation of equivalent thickness
- Because of its light weight, this material is easy to handle on the jobsite and installs quickly. Easy cutting in the field provides the installer with simplified fabricating on the roof deck
- Excellent dimensional stability, high moisture resistance and low water permeability

Panel Characteristics:

- Available in a variety of thicknesses from 1.0" (25.4 mm) to 4.6" (116 mm) to best suit your specifications
- Available in 4' x 4' (1.22 m x 1.22 m) and 4' x 8' (1.22 m x 2.44 m) boards
- Flute Fill and other special sizes are available upon request
- Other EnergyGuard™ products available – tapered, CGF facer and non-halogenated. See individual data sheets for more information

Codes & Compliance:

- Meets the requirements of ASTM C1289 Type II, Class 1, Grade 2 (20 psi) and also available in Grade 3 (25 psi)
- FM 4450 / 4470—consult RoofNav.com for specific assemblies
- UL listed to ANSI / UL 790, UL 263, UL 1256
- UL Evaluation Report UL ER1306-03
- See UL Product iQ for details
- Miami-Dade County Approved
- State of Florida Approved
- For additional information, contact GAF at 1-800-766-3411 or designservices@gaf.com



EnergyGuard™ Polyiso Thermal Values:

Size*	R-Value**	Max Flute Span (in)
1.0" (25.4 mm)	5.7	2 5/8" (66.7 mm)
1.2" (30.5 mm)	6.8	2 5/8" (66.7 mm)
1.5" (38.1 mm)	8.6	4 3/8" (111 mm)
1.75" (44.5 mm)	10.0	4 3/8" (111 mm)
2.0" (51 mm)	11.4	4 3/8" (111 mm)
2.2" (59 mm)	12.6	4 3/8" (111 mm)
2.3" (58 mm)	13.2	4 3/8" (111 mm)
2.5" (64 mm)	14.4	4 3/8" (111 mm)
2.6" (66 mm)	15.0	4 3/8" (111 mm)
2.8" (71 mm)	16.2	4 3/8" (111 mm)
3.0" (76 mm)	17.4	4 3/8" (111 mm)
3.2" (81 mm)	18.6	4 3/8" (111 mm)
3.5" (89 mm)	20.5	4 3/8" (111 mm)
3.7" (94 mm)	21.7	4 3/8" (111 mm)
4.0" (102 mm)	23.6	4 3/8" (111 mm)
4.3" (109 mm)	25.4	4 3/8" (111 mm)
4.5" (114 mm)	26.6	4 3/8" (111 mm)
4.6" (117 mm)	27.1	4 3/8" (111 mm)

* Other thicknesses available upon request.

** Long Term Thermal Resistance Values provide a 15-year time weighted average in accordance with CAN/ULC S770.

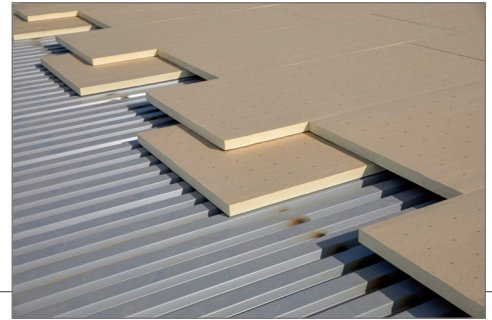
For optimal roof performance and to prevent thermal bridging GAF recommends installing two layers of Polyiso with staggered joints.



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Sustainability — for more information go to gaf.com/green

- Manufactured with EPA-compliant blowing agents containing no CFCs or HCFCs; has zero ozone depletion potential (ODP) and negligible global warming potential (GWP)
- GREENGUARD Gold
- Green Circle Certified for recycled content
- Potential LEED Credits for Polyiso Use
- Health Product Declaration (HPD)
- Environmental Product Declaration (EPD) (Industry)



Typical Physical Property Data

PROPERTY	TEST METHOD	MINIMUM VALUES
Compressive Strength (<i>psi (kPa), min</i>)*	ASTM D1621	Grade 2 – 20 psi (138kPa) Grade 3 – 25 psi (172kPa)
Dimensional Stability Change (<i>length + width, max</i>)**	ASTM D2126	<2% max
Flexural Strength (<i>psi (kPa), min</i>)	ASTM C203	40 psi (275kPa)
Tensile Strength (<i>psi (kPa), min</i>)	ASTM C209	≥ 500 (24kPa)
Water Absorption (<i>percent by volume, max</i>)	ASTM C209	<1.5%
Water Vapor Permeance (<i>perm, max</i>)	ASTM E96	<1.5 perm (57.5ng/Pa•s•m ²)
Service Temperature		-100° to 250°F (-73.3° to 121.1°C)
Flame Spread† Index	ASTM E84 / UL 723	< 75*
Smoke Developed Index	ASTM E84 / UL 723	< 200*

* Foam Core.

** Stated dimensional stability tolerance: Board thickness shall not diminish by more than 2% max.

† These numerical ratings are not intended to reflect hazards presented by these or any other material under actual fire conditions.

Warnings and Limitations

- EnergyGuard™ Polyiso Insulation is a non-structural, non load-bearing material. It is not designed for direct traffic usage unless adequately protected.
- EnergyGuard™ Polyiso Insulation should be stored protected from the elements. Bundle wrap is not for use as waterproofing for boards. No more insulation should be installed than can be completely covered with roofing on the same day.
- As unprotected polyisocyanurate will burn, fire safety precautions should be observed wherever insulation products are used.
- Direct mopping of modified bitumen roofing or built-up roofing (BUR) to EnergyGuard™ Polyiso Insulation is not approved.
- Refer to PIMA Technical Bulletin No. 109 Storage and Handling Recommendations for Polyiso Roof Insulation at www.polyiso.org
- Refer to the application specifications in the current membrane manufacturer's application and specifications manual for proper installation procedures.



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Sloped Polyiso with GRF Facers



Description:

EnergyGuard™ Tapered Polyiso Insulation is a sloped panel made of glass fiber-reinforced (GRF) cellulosic felt facers bonded to a core of polyisocyanurate foam.

Features and Benefits:

- Prevents ponding water when properly installed on a low-slope roof by providing slope via a series of both tapered and flat polyiso fill boards
- Versatile — approved component in single-ply, BUR, and modified bitumen systems, with a variety of attachment methods: mechanically attached, fully adhered, loose laid, ballasted
- Highest R-value per inch of any rigid board insulation
- Easy to install — lightweight, easy to cut, easy to handle

Panel Characteristics:

Sizes: 4' x 4' (1.22 m x 1.22 m) – 4' x 8' (1.22 m x 2.44 m) available upon request

Thickness: 1/2" – 4 1/2" (12.7 mm – 114.3 mm) in a single layer

Slope: 1/16" (1.6 mm), 1/8" (3.2 mm), 3/16" (4.8 mm), 1/4" (6.35 mm), 3/8" (9.5 mm), 1/2" (12.7 mm)

Codes and Compliance:

- Meets the requirements of ASTM C1289 Type II, Class 1, Grade 2 (20 PSI) and Grade 3 (25 PSI)
- FM Approved consult RoofNav.com for specific assemblies
- Classified by UL in accordance with ANSI/UL 1256, UL 790 and UL 263. Refer to UL Product iQ for specific assemblies
- UL Evaluation Report UL ER1306-03
- Miami-Dade County Product Control Approved
- State of Florida Approved
- For additional information contact GAF at 877-423-7663 or designservices@gaf.com



Tapered Design Team:

Our Tapered Design Group specialists are available within your region to assist you in all aspects of preplanning, design, and training. Reach out at tdg@GAF.com or 866-207-7123.

Our services include:

- Conceptual design assistance
- Quote review and comparison
- Plan and spec review
- Alternate design recommendations
- Job startups, trainings, and presentations

Sustainability:

- Manufactured with EPA-compliant blowing agents containing no CFCs or HCFCs, zero ozone depletion potential (ODP) and negligible global warming potential (GWP)
- Green Circle Certified® for Recycled Content
- Potential LEED® Credits for Polyiso Use
- Health Product Declaration (HPD)
- Environmental Product Declaration (EPD) (Industry)



For more information go to gaf.com/green



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TYPICAL PHYSICAL PROPERTY DATA CHART*

Property	Test Method	Value
Compressive Strength	ASTM D1621	20 psi (138kPa) or 25 psi (172 kPa)
Dimensional Stability**	ASTM D2126	< 2%
Water Absorption	ASTM C209	< 1.5%
Moisture Vapor Transmission	ASTM E96	< 1.5 Perm
Service Temperature		-100° to 250°F (-73.3° to 121.1°C)
Flame Spread Index	ASTM C84	< 75
Smoke Developed Index	ASTM C84	< 200
Flexural Strength	ASTM C203	40 psi
Tensile Strength	ASTM C209	≥500 24 kPa



*Foam core

**Stated dimensional stability tolerance; board thickness shall not diminish by more than 2% max

TAPERED POLYISO PHYSICAL CHARACTERISTICS AND SHIPPING INFORMATION

Physical Characteristics				Shipping Information (4' x 4') (1.22 m x 1.22 m)				
Slope	Thickness (Inches/Millimeters)	Size*	Average Thickness (Inches/Millimeters)	Board Feet Per Panel	Boards/ Bundle	Boards/ Truck	Bundle/ Truck	Sq. Ft. Per Truck
1/16" (1.6 mm)	0.5 - 0.75 (12.7 - 19.1)	1	0.625 (15.9)	10	72	3,456	48	55,296 (5,137 sq. m)
	0.75 - 1.0 (19.1 - 25.4)	2	0.875 (22.2)	14	52	2,496	48	39,936 (3,710 sq. m)
	1.0 - 1.25 (25.4 - 31.8)	3	1.125 (28.6)	18	40	1,920	48	30,720 (2,854 sq. m)
	1.25 - 1.5 (31.8 - 38.1)	4	1.375 (34.9)	22	32	1,536	48	24,576 (2,283 sq. m)
	1.5 - 1.75 (38.1 - 44.5)	5	1.625 (41.3)	26	28	1,344	48	21,504 (1,998 sq. m)
	1.75 - 2.0 (44.5 - 51.0)	6	1.875 (47.6)	30	24	1,152	48	18,432 (1,712 sq. m)
	2.0 - 2.25 (51.0 - 57.2)	7	2.125 (54.0)	34	20	960	48	15,360 (1,427 sq. m)
	2.25 - 2.5 (57.2 - 64.0)	8	2.375 (60.3)	38	18	864	48	13,824 (1,284 sq. m)
1/8" (3.2 mm)	0.5 - 1.0 (12.7 - 25.4)	AA	0.75 (19.1)	12	64	3,072	48	49,152 (4,566 sq. m)
	1.0 - 1.5 (25.4 - 38.1)	A	1.25 (31.8)	20	38	1,824	48	29,184 (2,711 sq. m)
	1.5 - 2.0 (38.1 - 51.0)	B	1.75 (44.5)	28	26	1,248	48	19,968 (1,855 sq. m)
	2.0 - 2.5 (51.0 - 64.0)	C	2.25 (57.2)	36	20	960	48	15,360 (1,427 sq. m)
	2.5 - 3.0 (64.0 - 76.2)	D	2.75 (70.0)	44	16	768	48	12,288 (1,142 sq. m)
	3.0 - 3.5 (76.2 - 89.0)	E	3.25 (82.6)	52	14	672	48	10,752 (999 sq. m)
	3.5 - 4.0 (89.0 - 102.0)	F	3.75 (95.3)	60	12	576	48	9,216 (856 sq. m)
	4.0 - 4.5 (102.0 - 114.3)	FF	4.25 (108.0)	68	10	480	48	7,680 (713 sq. m)
3/16" (4.8 mm)	0.5 - 1.25 (12.7 - 31.8)	JJ	0.875 (22.2)	14	50	2,400	48	38,400 (3,567 sq. m)
	1.25 - 2 (31.8 - 51.0)	KK	1.625 (41.3)	26	26	1,248	48	19,968 (1,855 sq. m)
	2.0 - 2.75 (51.0 - 70.0)	LL	2.375 (60.3)	38	20	960	48	15,360 (1,427 sq. m)
	2.75 - 3.5 (70.0 - 89.0)	MM	3.125 (79.4)	50	15	720	48	11,520 (1,070 sq. m)
	1.0 - 1.75 (25.4 - 44.5)	J	1.375 (34.9)	22	34	1,632	48	26,112 (2,426 sq. m)
	1.75 - 2.5 (44.5 - 64.0)	K	2.125 (54.0)	34	22	1,056	48	16,896 (1,570 sq. m)
	2.5 - 3.25 (64.0 - 82.6)	L	2.875 (73.0)	46	16	768	48	12,288 (1,142 sq. m)
	3.25 - 4.0 (82.6 - 102.0)	M	3.625 (92.1)	58	12	576	48	9,216 (856 sq. m)
1/4" (6.35 mm)	0.5 - 1.5 (12.7 - 38.1)	X	1.0 (25.4)	16	48	2,304	48	36,864 (3,425 sq. m)
	1.5 - 2.5 (38.1 - 64.0)	Y	2.0 (51.0)	32	24	1,152	48	18,432 (1,712 sq. m)
	2.5 - 3.5 (64.0 - 89.0)	Z	3.0 (76.2)	48	16	768	48	12,288 (1,142 sq. m)
	3.5 - 4.5 (89.0 - 114.3)	ZZ	4.0 (102.0)	64	12	576	48	9,216 (856 sq. m)
	1.0 - 2.0 (25.4 - 51.0)	G	1.5 (38.1)	24	32	1,536	48	24,576 (2,283 sq. m)
	2.0 - 3.0 (51.0 - 76.2)	H	2.5 (64.0)	40	18	864	48	13,824 (1,284 sq. m)
	3.0 - 4.0 (76.2 - 102.0)	I	3.5 (89.0)	56	12	576	48	9,216 (856 sq. m)
3/8" (9.5 mm)	0.5 - 2.0 (12.7 - 51.0)	SS	1.25 (31.8)	20	38	1,824	48	29,184 (2,711 sq. m)
	2.0 - 3.5 (51.0 - 89.0)	TT	2.75 (69.9)	44	16	768	48	12,288 (1,142 sq. m)
	1.0 - 2.5 (25.4 - 64.0)	S	1.75 (44.5)	28	27	1,296	48	20,736 (1,926 sq. m)
1/2" (12.7 mm)	0.5 - 2.5 (12.7 - 64.0)	Q	1.5 (38.1)	24	32	1,536	48	24,576 (2,283 sq. m)
	2.5 - 4.5 (64.0 - 114.3)	QQ	3.5 (89.0)	56	12	576	48	9,216 (856 sq. m)
	1.0 - 3.0 (25.4 - 76.2)	XX	2.0 (51.0)	32	22	1,056	48	16,896 (1,570 sq. m)

*Availability for these tapered panel systems may vary for each region.



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EVERGUARD® TPO

MEMBRANE

60

Quality You Can
Trust...From
North America's
Largest Roofing
Manufacturer!™

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Why TPO

- Great Value—Excellent performance at a cost-effective price
- Excellent Seam Strength—Heat-welded seams provide greater seam strength to taped and other seams
- Long-term Weathering—Excellent long-term heat and UV resistance
- Energy Saving—Highly reflective and emissive white roof can help reduce energy costs and urban heat island effect
- CREST Energy Savings Calculator—See your potential savings at cool.gaf.com
- Versatile Application Method

Why GAF EverGuard® TPO

- Outperforms standard TPO in heat aging and UV tests—the best predictors of TPO performance
 - After accelerated heat aging at 275°F (135°C) for 105 days, EverGuard® TPO showed no cracking—while every one of the competitors' samples had failed! **See below:**
 - UV testing—Greater than 2.5 times the industry standard (ASTM D6878 weather resistance test)
- Guarantees are available up to 25 years when using EverGuard® TPO 60 mil Membrane.*
- Easier to install due to:
 - Large welding window
 - Most complete line of accessories
 - 10' (3.05 m) wide sheets



Installation

EverGuard® TPO 60 mil Membrane is suitable for all types of single-ply systems:

- Mechanically Attached Application...for a quick and cost-effective system that can be installed practically year-round.
- RhinoBond® Application...can be applied without using adhesives and installed practically year round. Qualifies for the same guarantee length as an adhered system.*
- Adhered Application...can be installed with EverGuard® 1121 Solvent-Based Adhesive, EverGuard® Low VOC Adhesive, or EverGuard® WB181 Water-Based Adhesive for the smoothest appearance. Provides excellent wind uplift performance.

Accessories

Field fabrication of TPO accessories is time-consuming, costly, inconsistent, and can lead to unreliable details that compromise a watertight roofing system. EverGuard® TPO prefabricated accessories deliver consistent quality and eliminate the worry and problems often associated with field fabrication. They can also boost productivity up to 200%,** while reducing installed cost by up to 12%.

*See applicable guarantee for complete coverage and restrictions.

**Based on GAF estimate to field-fabricate flashing details.



U.S. only



California
Title 24
Compliant



TPO membranes meet the
performance requirements
of ICC ER-6030

EverGuard® TPO 60 mil Membrane

Applicable Standards

UL Listed, FM Approved, Miami-Dade County Product Control Approved, State of Florida Approved, CRRC Rated, Title 24 Compliant*, ENERGY STAR® Certified**, ASTM D6878.

Physical Properties	ASTM Test Method	ASTM D6878 Minimum	EverGuard® Typical Test Data
1. Certain data is provided in MD (machine direction) x CMD (cross machine direction) format. 2. Data is based upon typical product performance, and is subject to normal manufacturing tolerance and variance.			
Nominal Thickness	ASTM D751	0.039" (min.) (0.99 mm)	0.060" (1.52 mm)
Breaking Strength	ASTM D751 Grab Method	220 lbf/in. (38.5 kn/m)	305 lbf x 290 lbf (454 x 432 kg/m)
Factory Seam Strength	ASTM D751	66 lbf (98.34 kg/m)	135 lbf (membrane failure) (201.1 kg/m)
Elongation at Break	ASTM D751	15%	30%
Heat Aging	ASTM D573	90% Retention of Breaking Strength and Elongation at Break	100%
Tear Strength	ASTM D751 8" x 8" (203 x 203 mm) Sample	55 lbf (81.95 kg/m)	75 lbf x 130 lbf (111.8 x 193.7 kg/m)
Puncture Resistance	FTM 101C Method 2031	Not Established	380 lb. (172 kg)
Cold Brittleness	ASTM D2137	-40°C	-40°C
Permeance	ASTM E96	Not Established	0.08 Perms
Dimensional Change	ASTM D1204 @158°F (70°C), 6 hrs.	+/-1%	0.4%
Water Absorption	ASTM D471 @158°F (70°C), 1 week	+/-3.0% (top coating only)	0.7%
Hydrostatic Resistance	ASTM D751 Method D	Not Established	430 psi
Ozone Resistance	ASTM D1149	No visible deterioration @ 7 x magnification	No visible deterioration @ 7 x magnification
SRI (Solar Reflectance Index) Initial/Aged	N/A	N/A	94/81 83 Aged Title 24
Reflectivity (white) Initial/Aged	ASTM C1549 ASTM E903	N/A N/A	0.76/0.68 81.9% Reflectance
Emissivity (white) Initial/Aged	ASTM C1371 ASTM E403	N/A N/A	0.90/0.83 0.94
Weather Resistance	ASTM G155/D6878	10,080 KJ/(m² · nm) at 340 nm	>25,000 KJ/(m² · nm) at 340 nm
Heat Aging	ASTM D573	240°F (115°C) for 32 weeks	60 weeks
Thickness Above Scrim	ASTM D7635	Min 30% of Total Thickness	22.1 mil (Nominal)
Guarantee			
Up to 25 years			

*White, Energy Gray, and Energy Tan Membranes Only

**ENERGY STAR® only valid in the U.S.

Product Data

Roll Size	5'x 100'	6' x100'	8'x100'	10'x100'	12'x100'
	(1.52 x 30.5 m) (500 sq. ft. [46.5 sq.m])	(1.83 x 30.5 m) (600 sq. ft. [55.74 sq.m])	(2.44 x 30.5 m) (800 sq. ft. [74.3 sq.m])	(3.05 x 30.5 m) (1,000 sq. ft. [92.9 sq.m])	(3.65 x 30.5 m) (1,200 sq. ft. [111.484 sq.m])
Roll Weight	162 lb. (73.5 kg)	194.4 lb. (88.2 kg)	257 lb. (117 kg)	322 lb. (146.1 kg)	386.4 lb. (175.3 kg)
Colors	White, Tan, Gray				
Storage	Store rolls on their sides on pallets or shelving in a dry area.				
Safety Warning	Membrane rolls are heavy. Position and install by at least two people.				
Note: Membrane rolls shipped horizontally on pallets, stacked pyramid-style and banded. Product sizes, dimensions, and widths are nominal values and are subject to normal manufacturing/packaging tolerance and variation.					

RhinoBond® is a registered trademark of OMG.



EverGuard[®] TPO

SINGLE-PLY ROOFING SYSTEMS

TPO Bonding Adhesive

Description

EverGuard[®] 1121 Bonding Adhesive is a contact-type bonding adhesive specially designed for bonding TPO single-ply roofing membranes and flashings to various roofing substrates. EverGuard[®] 1121 Bonding Adhesive is a general purpose rubber-based bonding adhesive for attaching TPO-based single-ply membranes to various substrates, including polyisocyanurate insulation and gypsum-based cover boards.

Features and Benefits

- Excellent coverage up to 70 sq ft per gallon of bonded membrane
- Fast-drying solvent system
- Easy application using roller or brush
- Spray application also possible
- High initial tack

Physical Properties

Base: Synthetic polymer
Solvent: Hydrocarbon blend
Flash Point: 0°F (-18°C)
Weight/Gallon: 7.4 lbs
Color: Yellow
Viscosity: 2,300 - 2,700 cps
Coverage: 50-70 sq. ft./gallon

Total Solids: 25% +/- 2.5%
Voc: 611 grams/liter
Shelf Life: 1 year, unopened
Open Time: Up to 60 minutes
Dry Time: 5 - 15 minutes
Application: Roller, brush, or spray



1121 Bonding Adhesive

Ordering Information

Item Number: 77800OM

Packaging: 5 gallon pails

Weight: 37 lbs/pail

Shipping: 45 pails per pallet

Quality You Can
Trust...From
North America's
Largest Roofing
Manufacturer!™

gaf.com



EverGuard® Diamond Pledge™

NDL Roof Guarantee



OWNER OF BUILDING	GUARANTEE NUMBER
NAME OF BUILDING	PERIOD OF COVERAGE
ADDRESS OF BUILDING	DATE OF COMPLETION
AREA OF ROOF (SQUARES)	GUARANTEE EXPIRATION DATE
APPLIED BY	ROOF SPECIFICATION

THE GUARANTEE/SOLE AND EXCLUSIVE REMEDY

GAF guarantees to you, the owner of the building described above, that GAF will provide “Edge To Edge” protection by repairing leaks through the GAF roofing membrane, liquid-applied membrane or coating, base flashing, high wall waterproofing flashing, insulation, expansion joint covers, preflashed accessories, and metal flashings used by the contractor of record that were designed and installed in accordance with an appropriate ES-1 certified edge detail (the “GAF Roofing Materials”) resulting from a manufacturing defect, ordinary wear and tear, or workmanship in applying the GAF Roofing Materials. There is no dollar limit on covered repairs. Leaks caused by any non-GAF materials, such as the roof deck or non-GAF insulation, are not covered.

GUARANTEE PERIOD

This guarantee ends on the expiration date listed above. **NOTE:** Lexsuco® flashings are covered by this guarantee **ONLY** for the first ten years.

OWNER RESPONSIBILITIES

Notification of Leaks

In the event of a leak through the GAF Roofing Materials, you **MUST** make sure that GAF is notified directly about the leak, in writing, within **30 days** either online at leakreporting.gaf.com, by email at guaranteeleak@gaf.com, or by postal mail to GAF Warranty Claims Department, 1 Campus Drive, Parsippany, NJ 07054, or GAF will have no responsibility for making repairs. **NOTE:** The roofing contractor is **NOT** an agent of GAF; notice to the roofing contractor is **NOT** notice to GAF.

By notifying GAF, you authorize GAF to investigate the cause of the leak. If the investigation reveals that the leak is not covered by this guarantee, you agree to pay an investigation cost of \$500. This guarantee will be cancelled if you fail to pay this cost within 30 days of receipt of an invoice for it.

Preventative Maintenance and Repairs

- A. You must perform regular inspections and maintenance and keep records of this work.
- B. To keep this guarantee in effect, you must repair any conditions in the building structure or roofing system that are not covered by this guarantee but that GAF concludes may be threatening the integrity of the GAF Roofing Materials. Any such repairs must be performed by a GAF-certified roofing contractor. Failure to make timely repairs may jeopardize guarantee coverage.
- C. You may make temporary repairs to minimize damage to the building or its contents in an emergency, at your sole expense. These repairs will not result in cancellation of the guarantee as long as they are reasonable and customary and do not result in permanent damage to the GAF Roofing Materials.
- D. Any equipment or material that impedes any inspection or repair must be removed at your expense so that GAF can perform inspections or repairs.

EXCLUSIONS FROM COVERAGE

(e.g., items that are not “ordinary wear and tear” or are beyond the control of GAF)

This guarantee does **NOT** cover conditions other than leaks. This guarantee also does **NOT** cover leaks caused by any of the following:

- 1. Inadequate roof maintenance, that is, the failure to follow the Scheduled Maintenance Checklists provided with this guarantee (extra copies available by calling Guarantee Services at 1-877-GAF-ROOF) or the failure to repair owner responsibility items.
- 2. Unusual weather conditions or natural disasters including, but not limited to, winds in excess of 55 miles per hour, hail, floods, hurricanes, lightning, tornados, and earthquakes, unless specifically covered by an addendum to this guarantee.
- 3. Impact of foreign objects or physical damage caused by any intentional or negligent acts, accidents, misuse, abuse, or the like.
- 4. Damage to the roof constructed of the GAF Roofing Materials due to: (a) movement, cracking, or other failure of the roof deck or building; (b) improper installation or failure of any non-GAF insulation or materials; (c) condensation or infiltration of moisture through or around the walls, copings, building structure, or surrounding materials except where high wall GAF waterproofing flashings are installed; (d) chemical attack on the membrane, including, but not limited to, exposure to grease or oil; (e) the failure of wood nailers to remain attached to the structure; (f) moisture migration from the building interior or any building component other than the GAF Roofing Materials; (g) use of materials that are incompatible with the GAF Roofing Materials; or (h) architectural, engineering, or design defects or flaws.
- 5. Traffic of any nature on the roof unless using GAF walkways applied in accordance with GAF published application instructions.
- 6. Blisters in the GAF Roofing Materials that have not resulted in leaks.
- 7. Changes in the use of the building or any repairs, installation of any overburden, modifications, or additions to the GAF Roofing Materials after the roof is completed, unless prior written approval is obtained from GAF.
- 8. Exposure to sustained high-temperature conditions; however, for systems utilizing EverGuard Extreme® TPO membrane, exposure in excess of 195°F.

No representative, employee, or agent of GAF, or any other person, has the authority to assume any additional or other liability or responsibility for GAF, unless it is in writing and signed by an authorized GAF Field Services Manager or Director. GAF does not practice engineering or architecture. Neither the issuance of this guarantee, nor any review of the roof constructed of the GAF Roofing Materials (or the plans for the roof), by GAF shall constitute any warranty of such plans, specifications or construction, or the suitability or code compliance of the GAF Roofing Materials for any particular structure. **NOTE:** Any inspections made by GAF are limited to a surface inspection only, are for the sole benefit of GAF, and do not constitute a waiver or extension of any of the terms and conditions of this guarantee.

This guarantee **MAY BE SUSPENDED OR CANCELLED IF THE ROOF IS DAMAGED BY** any cause listed above as **AN EXCLUSION FROM COVERAGE** that may affect the integrity or watertightness of the roof.

TRANSFERABILITY

You may transfer or assign this guarantee to a subsequent owner of this building for the remaining term only if: 1) the request is in writing to GAF at the address listed below within 60 days after ownership transfer; 2) you make any repairs to the GAF Roofing Materials or other roofing or building components that are identified by GAF after an inspection as necessary to preserve the integrity of the GAF Roofing Materials; and 3) you pay an assignment fee of \$500. This guarantee is **NOT** otherwise transferable or assignable by contract or operation of law, either directly or indirectly.

LIMITATION OF DAMAGES; MEDIATION; JURISDICTION; CHOICE OF LAW

THIS GUARANTEE IS EXPRESSLY IN LIEU OF ANY OTHER GUARANTEES OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, and of any other obligations or liability of GAF, whether any claim against it is based upon negligence, breach of warranty, or any other theory. In **NO** event shall GAF be liable for any **CONSEQUENTIAL OR INCIDENTAL DAMAGES** of any kind, including, but not limited to, interior or exterior damages and/or mold growth.

The parties agree that, as a condition precedent to litigation, any controversy or claim relating to this guarantee shall be first submitted to mediation before a mutually acceptable mediator unless GAF, at its sole option, elects to waive said requirement. In the event that mediation is unsuccessful, or is waived by GAF, the parties agree that neither one will commence or prosecute any lawsuit or proceedings other than before the appropriate state or federal court in the State of New Jersey. This guarantee shall be governed by the laws of the State of New Jersey, without regard to principles of conflicts of laws. Each party irrevocably consents to the jurisdiction and venue of the above identified courts.

NOTE: GAF shall have no obligation under this guarantee unless and until all bills for installation and supplies have been paid in full to the roofing contractor and materials suppliers, and the guarantee charge has been paid to GAF.

By: _____

Authorized Signature

GAF
1 CAMPUS DRIVE
PARSIPPANY, NJ 07054

Visit gaf.com

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We protect what matters most™



FILE: C:\Users\cdbea\Dropbox\CAD Files\WSU_SW_2023\Hamilton Roof.dwg PLOT DATE: August 17, 2015, 11:30 AM ORIGINAL PAPER SIZE: 22" x 34"

HAMILTON HALL

PROSSER HAMILTON LAB BLDG. ROOF REPLACEMENT

Washington State University

Department of Capital Planning and Development

Pullman, Washington

SYMBOLS & GRAPHICS

1

A

+

GRID LINES

A2

A-201

A1

INTERIOR ELEVATIONS FOUND ON SHEET A-2

A4

A-201

SECTION A4 FOUND ON SHEET A-201

A1

A-101

DETAIL A1 FOUND ON SHEET A-101

1

CONSTRUCTION NOTE

1

WALL TYPE INDICATOR

1

WINDOW TYPE INDICATOR

1

DOOR NUMBER AND/OR TYPE

ROOM NAME

101

ROOM NAME AND NUMBER

1

DRAWING REVISION 1

NEW WALL

EARTH

CRUSHED ROCK

CONCRETE

CONCRETE MASONRY UNIT

METAL

WOOD FRAMING

PLYWOOD

BATT/LOOSE FILL INSULATION

RIGID INSULATION

CERAMIC TILE

FINISH WOOD

CARPET

G

GAS

C

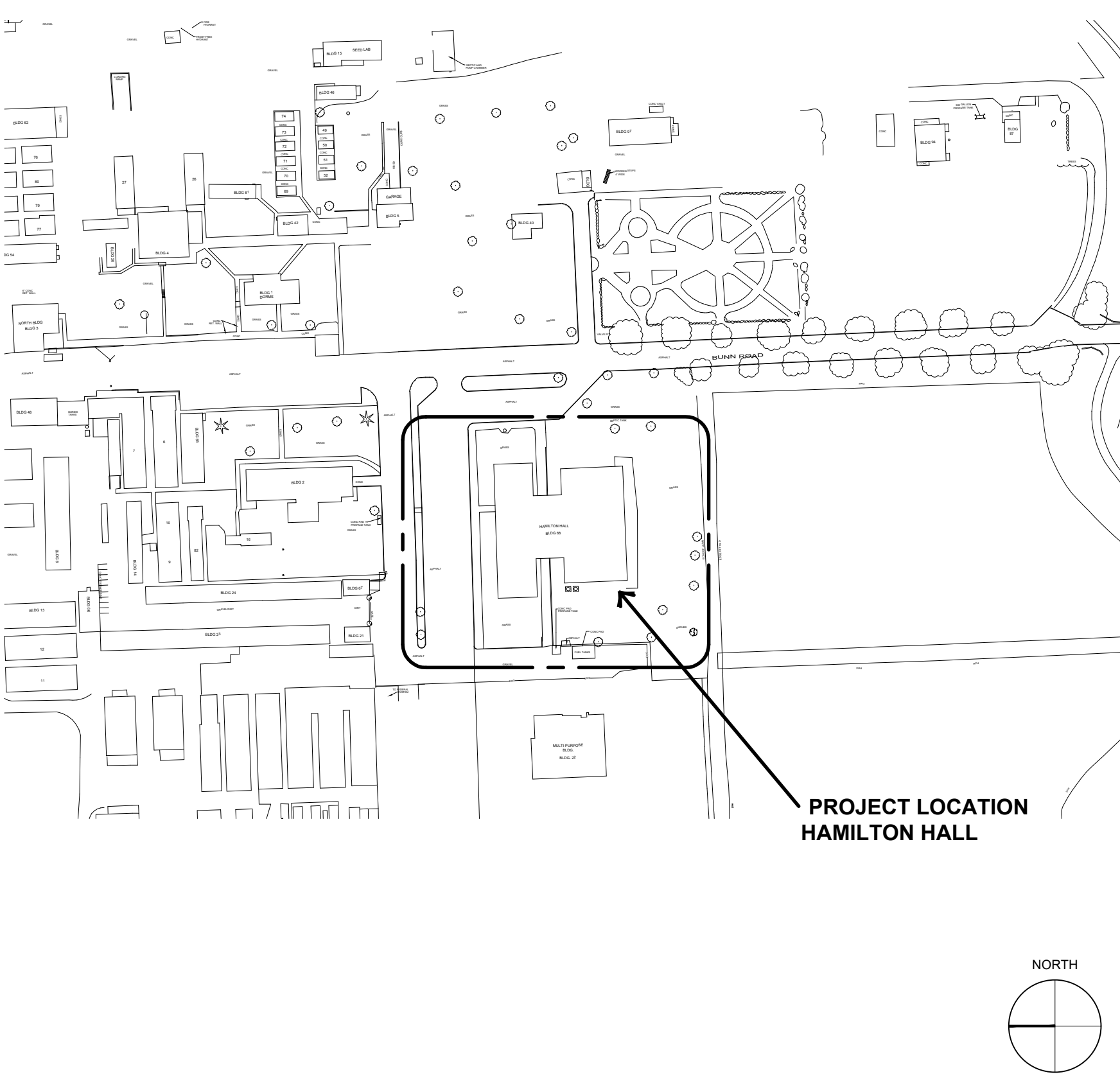
EXISTNG COMM-LINE

E

ELECTRICAL UTILITIES

EXISTING CONSTRUCTION TO BE REMOVED

LOCATION MAP



GENERAL NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO EXECUTING ANY WORK AND SHALL NOTIFY THE DEPARTMENT OF CAPITAL PLANNING AND DEVELOPMENT IN WRITING OF ANYTHING DIFFERING FROM THAT SHOWN ON THE DRAWINGS. FAILURE TO DO SO WILL CONSTITUTE THE CONTRACTOR'S ACCEPTANCE OF THE WORK AS SHOWN.
- ALL WORK SHALL COMPLY WITH 2018 IBC AND STATE OF WASHINGTON, CITY OF PROSSER AND WSU CODES AND ORDINANCES.
- DO NOT SCALE DRAWINGS; WRITTEN DIMENSIONS SHALL PREVAIL.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED PRIOR TO ANY PHASE OF CONSTRUCTION. FEES AND ANY RELATED COSTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- EXISTING BUILDINGS, UTILITIES, ETC. OR PORTIONS THEREOF, WHICH ARE DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THEIR ORIGINAL CONDITION, UNLESS OTHERWISE NOTED TO BE REMODELED PER THE CONTRACT DOCUMENTS.
- THE CONTRACTOR MUST CONTACT "CALL BEFORE YOU DIG", AT (800) 553-4344 AND/OR ALL APPROPRIATE UTILITY COMPANIES FOR BURIED PIPES OR CABLES, PRIOR TO ANY EXCAVATION.
- EXACT LOCATIONS OF EXISTING UTILITIES ARE TO BE VERIFIED BY THE CONTRACTOR.
- THE DUTIES OF THE OWNER/WASHINGTON STATE UNIVERSITY, ITS ENGINEER, AND ITS DESIGNATED CONSULTING ENGINEER DOES NOT INCLUDE DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM THEIR WORK.
- FOLLOWING IS A LIST OF TELEPHONE NUMBERS THAT MAY NEED TO BE CONTACTED DURING THE CONSTRUCTION PHASE OF THE PROJECT:

[]	Adam Ferry PROJECT MANAGER	(509) 335-9028
[]	WSU DEPARTMENT OF FACILITIES OPERATIONS (UTILITY INFORMATION)	(509) 335-9000
[]	AVISTA UTILITIES (GAS & POWER)	(800) 553-4344
[]	CALL BEFORE YOU DIG	(800) 553-4344

INDEX of DRAWINGS

SHEET #	SHEET TITLE
A100	COVER SHEET
A101	ROOF DEMOLITION PLAN - SOUTH
A102	ROOF DEMOLITION PLAN - NORTH
A103	ROOF PLAN - SOUTH/NOTES
A104	ROOF PLAN - NORTH/DETAILS
A105	DETAILS
A106	DETAILS
A107	DETAILS

BUILDING INFORMATION

BUILDING CODE OF RECORD:
2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL MECHANICAL (IMC)
2018 INTERNATIONAL FIRE CODE (IFC)
2020 NATIONAL ELECTRICAL CODE (NEC)
2018 WASHINGTON STATE ENERGY CODE (WSEC)
2018 UNIFORM PLUMBING CODE (UPC)

PROJECT LOCATION:
HAMILTON HALL, WSU CAMPUS, PROSSER, WA

SCOPE OF WORK:
ROOFING DEMOLITION AND REPLACEMENT AT EXISTING BUILDING, TO INCLUDE REPLACEMENT OF EXISTING ROOF INSULATION, NEW FLASHINGS AND ACCESSORIES.

BUILDING INFORMATION:
BUILDING TYPE: II-N
CURRENT OCCUPANCY: B
PROPOSED OCCUPANCY: B
OCCUPANCY LOAD: UNCHANGED

DESIGN FIRM:

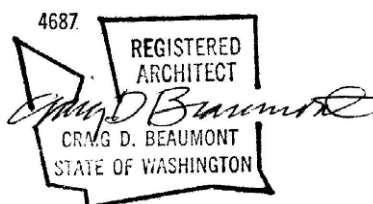


Palouse Design Associates, PLLC

2205 W. Caden Ave.
Spokane, WA 99208
509.432.6652

CONSULTANTS:

PROVISIONAL STAMP:



WASHINGTON STATE UNIVERSITY

Facilities Services
2425 E. Grimes Way
Pullman, Wa. 99164-3611

PH 509-335-5571
FAX 509-335-6875

HAMILTON HALL

PROSSER HAMILTON LAB BLDG.
ROOF REPLACEMENT

FACILITY NO. 2068

MARK	DATE	DESCRIPTION
	4/24/23	CONSTRUCTION DOCUMENTS
	4/11/23	75% REVIEW

CAD DWG FILE: HAMILTONROOF.DWG

DESIGN BY: CB

DRAWN BY: CB

PROJECT No. 1933-2023

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SHEET TITLE

COVER SHEET

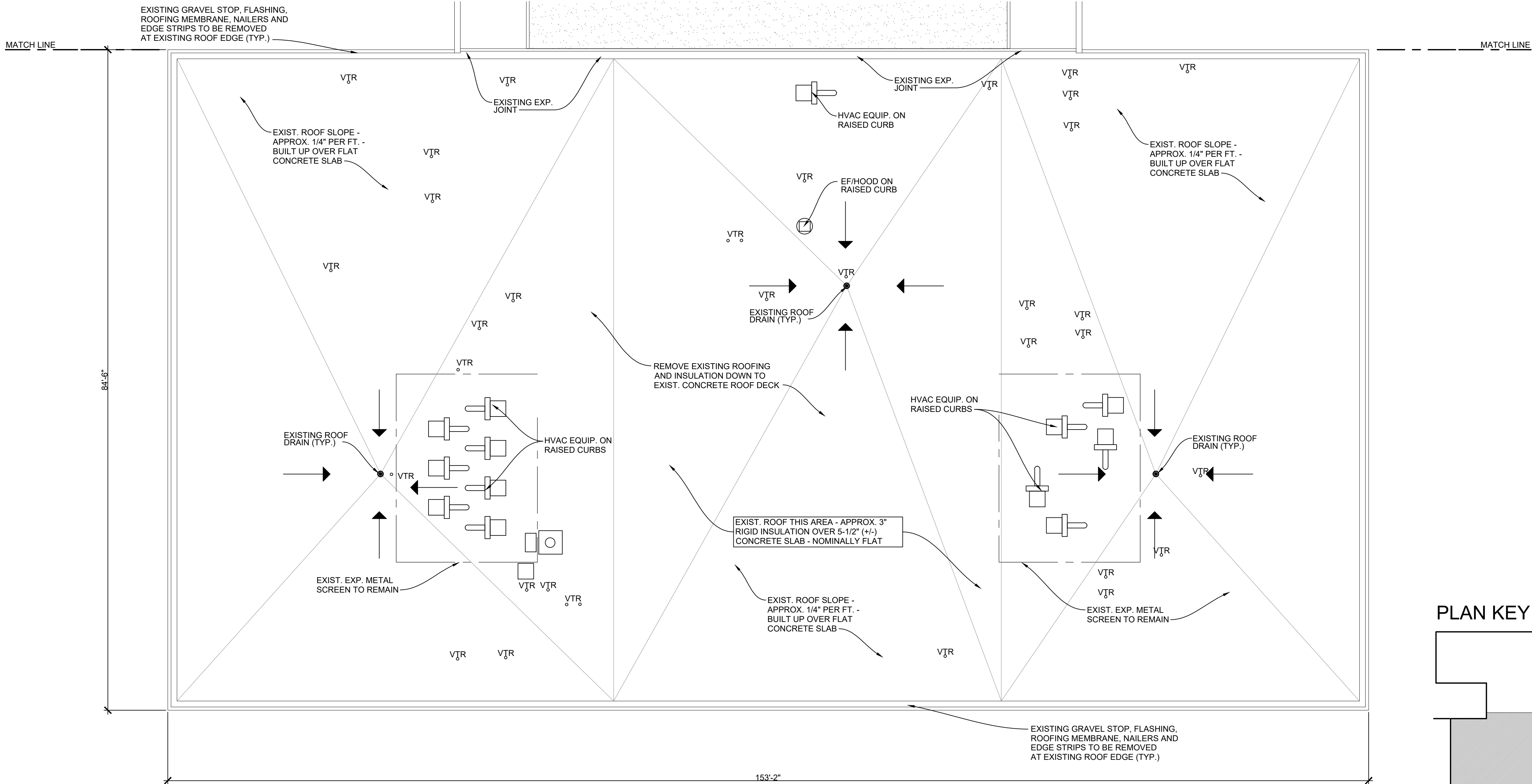
A100

SHEET 1 OF 8 SHEETS

FILE: C:\Users\cdbea\CAD Files\WSU_SW_2023\Hamilton Roof.dwg PLOT DATE: August 17, 2015, 11:30 AM ORIGINAL PAPER SIZE: 22" x 34"

E
D
C
B
A

1 2 3 4 5 6 7



B2 ROOF DEMOLITION PLAN - SOUTH
1/8"=1'-0"

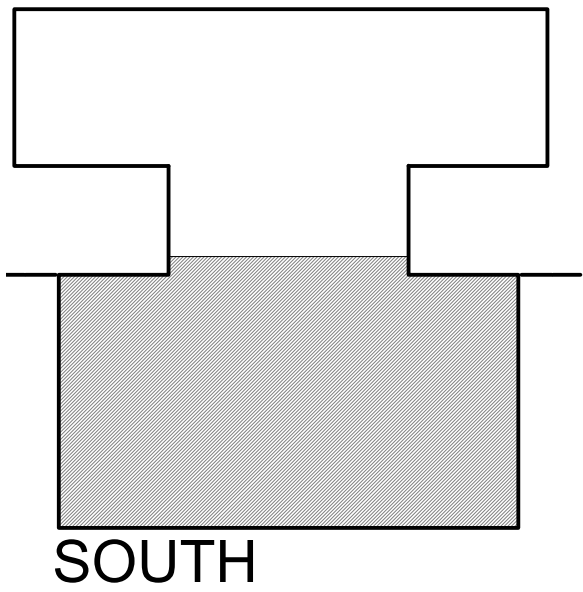
ABBREVIATION KEY:

A.F.F. - ABOVE FINISH FLOOR
A.F.R. - ABOVE FINISH ROOF
DS - DOWNSPOUT
(E) - EXISTING
EF - EXHAUST FAN/RELIEF VENT
ELEC. - ELECTRICAL EQUIPMENT
FP - FALL PROTECTION STANCHION
GA. - GALVANIZED
HVAC - HVAC EQUIPMENT
P.T. - PRESSURE TREATED
RD - ROOF DRAIN
S - STANDPIPE (F.D. CONNECTION)
VTR - PLUMBING VENT THROUGH ROOF

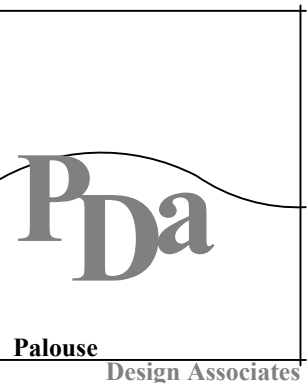
GENERAL DEMOLITION NOTES:

1. REMOVE ALL EXISTING ROOFING AND INSULATION, AND RELATED MATERIALS DOWN TO EXISTING STRUCTURAL ROOF DECK. SUBSTRATA BELOW, EXISTING ROOFING VARIES - SEE NOTES ON DEMOLITION PLAN.
2. DO NOT ALLOW DEMOLITION WORK TO ALTER THE INTEGRITY OF THE EXISTING STRUCTURE, MECHANICAL, PLUMBING OR ELECTRICAL FEATURES.
3. PROTECT EXISTING ITEMS TO REMAIN, BE RELOCATED, RE-INSTALLED OR SALVAGED.
4. REMOVE AND LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS; REMOVE FROM ROOF DAILY.
5. PROTECT ALL ADJOINING BUILDINGS, LANDSCAPE AND EXISTING CONDITIONS DURING CONSTRUCTION.

PLAN KEY



DESIGN FIRM:

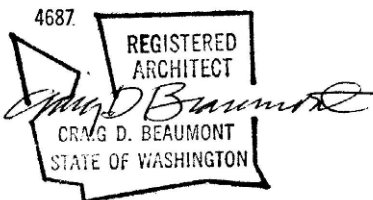


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Associates, PLLC

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Pullman, Wa. 99164-3611

HAMILTON HALL

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ROOF REPLACEMENT

FACILITY NO. 2068

MARK	DATE	DESCRIPTION
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	4/11/23	75% REVIEW

CAD DWG FILE: HAMILTONROOF.DWG

DESIGN BY: CB

DRAWN BY: CB

CHECKED BY: CB

PROJECT No. 1933-2023

FILE No. 2068-G-014

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SHEET TITLE

ROOF DEMOLITION
PLAN - SOUTH

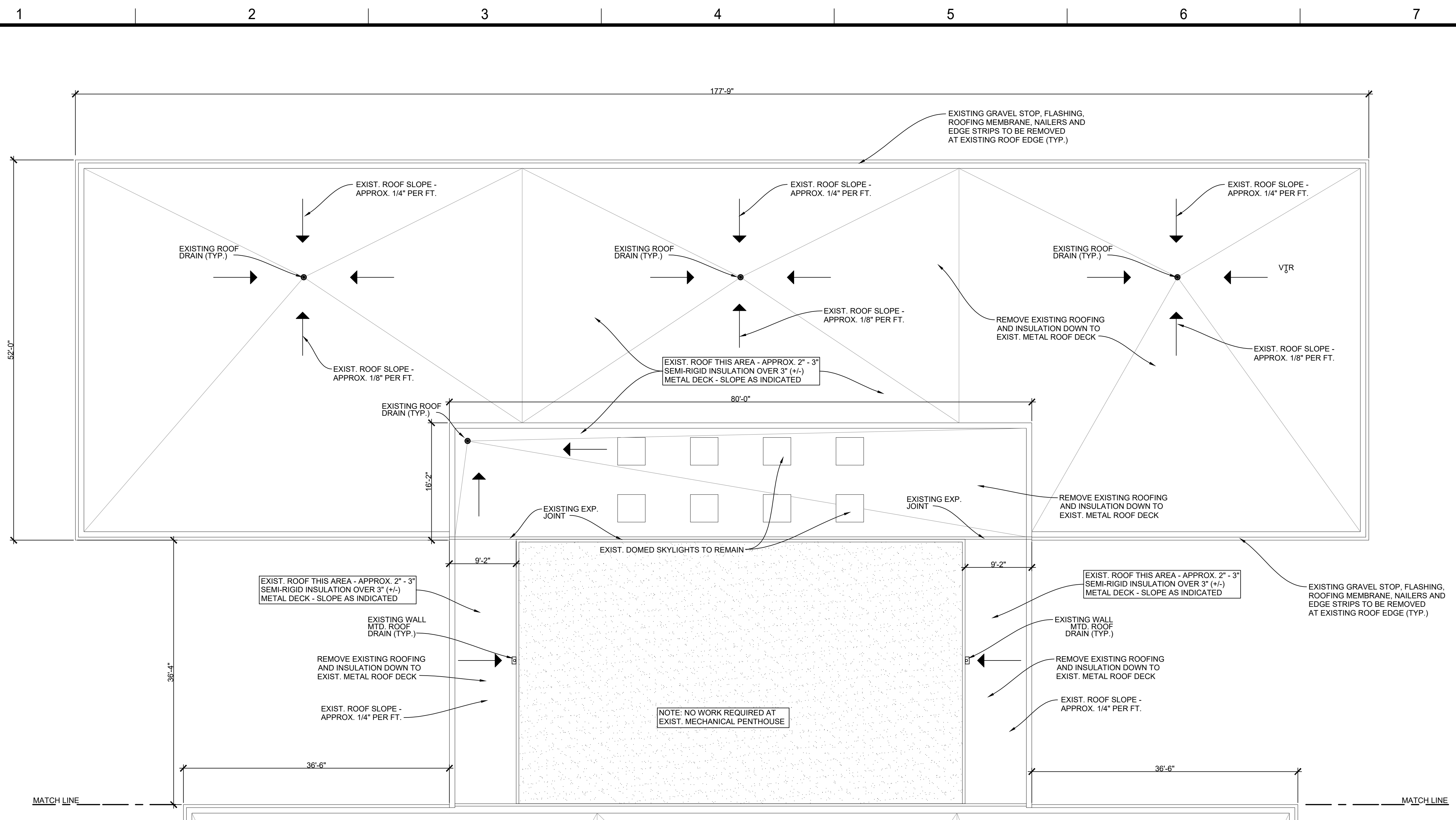
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SHEET 2 OF 8 SHEETS

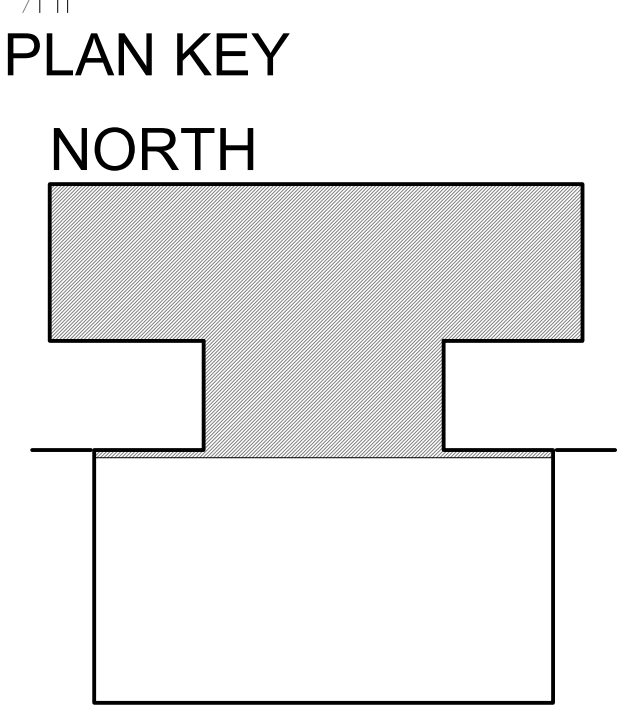
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E
D
C
B
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B2 ROOF DEMOLITION PLAN - NORTH
1/8"=1'-0"



DESIGN FIRM:

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2205 W. Caden Ave.
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509.432.6652

CONSULTANTS:

PROVISIONAL STAMP:

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Facilities Services
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HAMILTON HALL

PROSSER HAMILTON LAB BLDG.
ROOF REPLACEMENT

FACILITY NO. 2068

	4/24/23	CONSTRUCTION DOCUMENTS
	4/11/23	75% REVIEW
MARK	DATE	DESCRIPTION

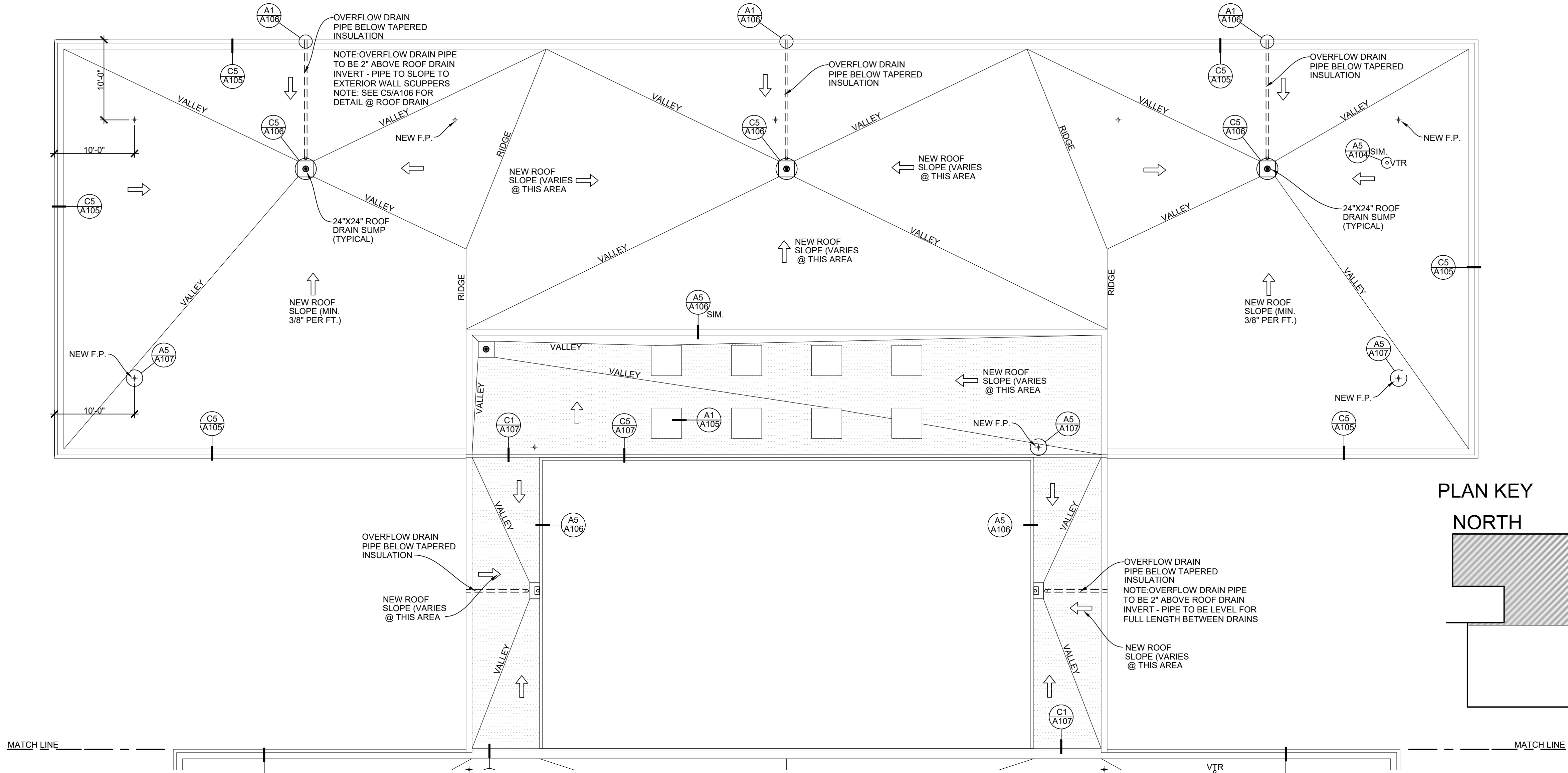
CAD DWG FILE: HAMILTONROOF.DWG
DESIGN BY: CB
DRAWN BY: CB
PROJECT No. 1933-2023
CHECKED BY: CB
FILE No. 2068-G-014
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SHEET TITLE

ROOF DEMOLITION PLAN - NORTH

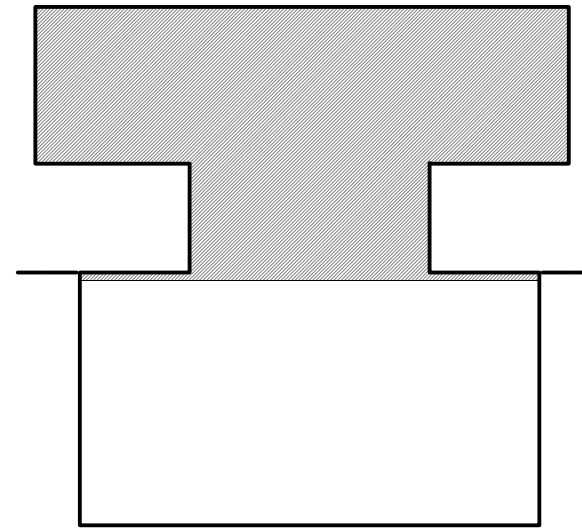
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SHEET 3 OF 8 SHEETS

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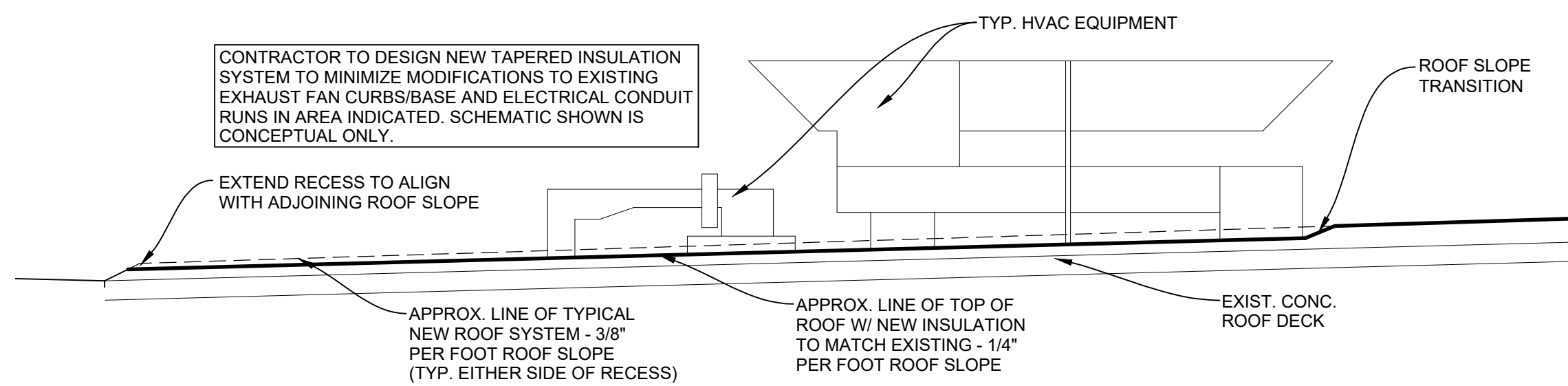


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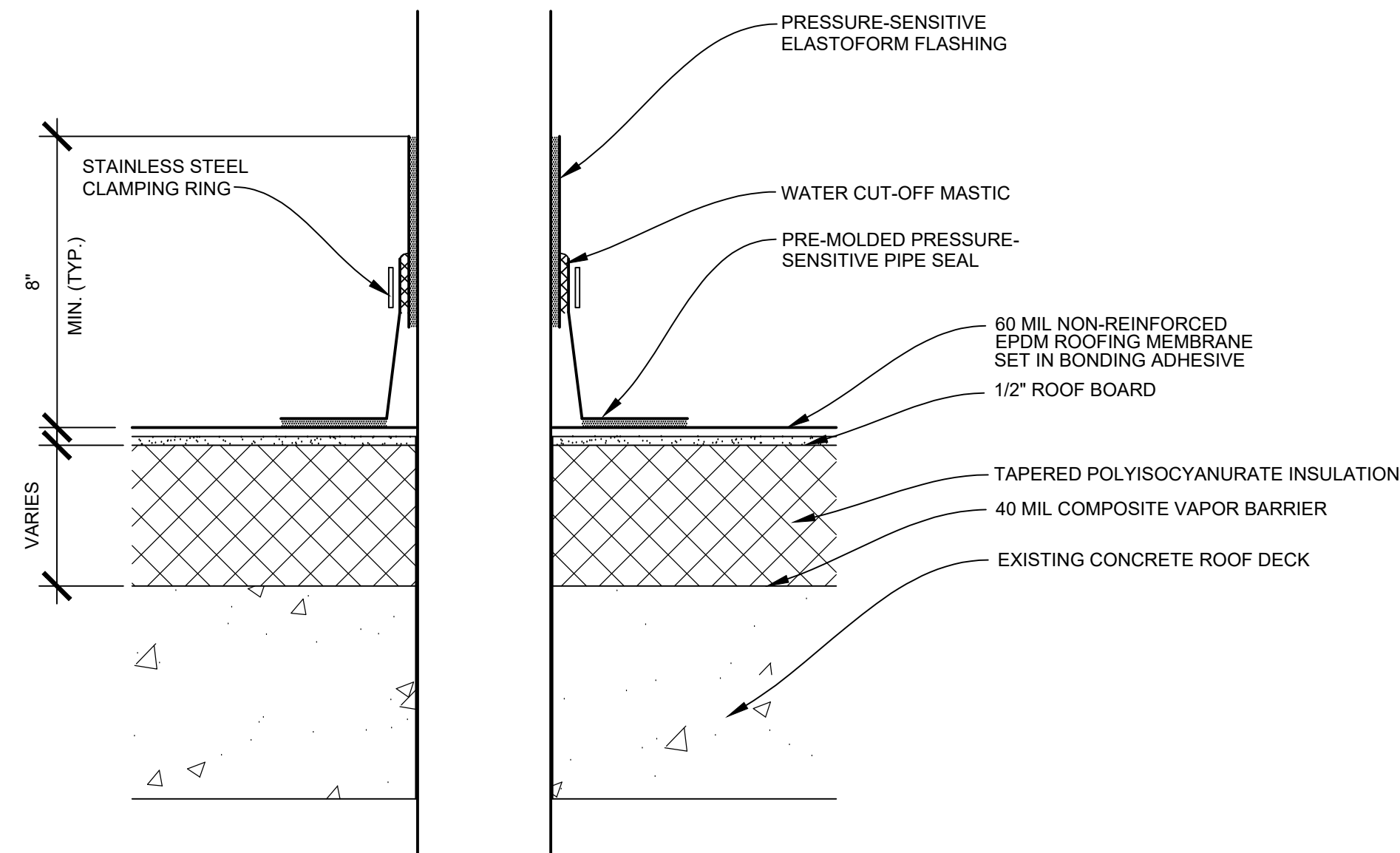
NORTH



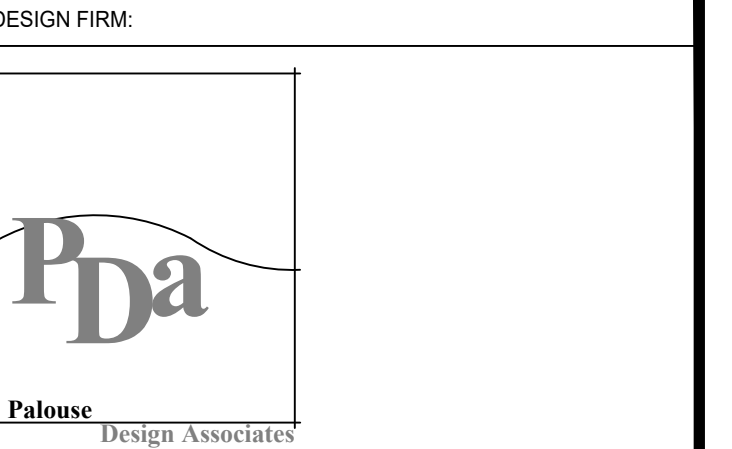
B1 ROOF PLAN - NORTH
1/8"=1'-0"



A1 CONCEPTUAL ROOF SLOPE SCHEMATIC
3"=1'-0"

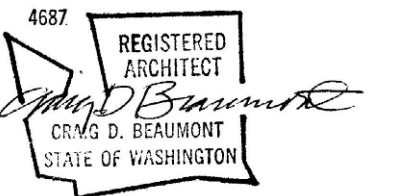


A5 TYPICAL VENT THROUGH ROOF DETAIL
3"=1'-0"



CONSULTANTS:

PROVISIONAL STAMP:



Facilities Services PH 509-335-5571
2425 E. Grimes Way FAX 509-335-6875
Pullman, Wa. 99164-3611

HAMILTON HALL

PROSSER HAMILTON LAB BLDG.
ROOF REPLACEMENT

FACILITY NO. 2068

MARK	DATE	DESCRIPTION
	4/24/23	CONSTRUCTION DOCUMENTS
	4/11/23	75% REVIEW

CAD DWG FILE:	HAMILTONROOF.DWG
DESIGN BY:	CB
DRAWN BY:	CB
CHECKED BY:	CB
PROJECT No.	1933-2023
FILE No.	2068-G-014
COPYRIGHT:	WASHINGTON STATE UNIVERSITY

SHEET TITLE

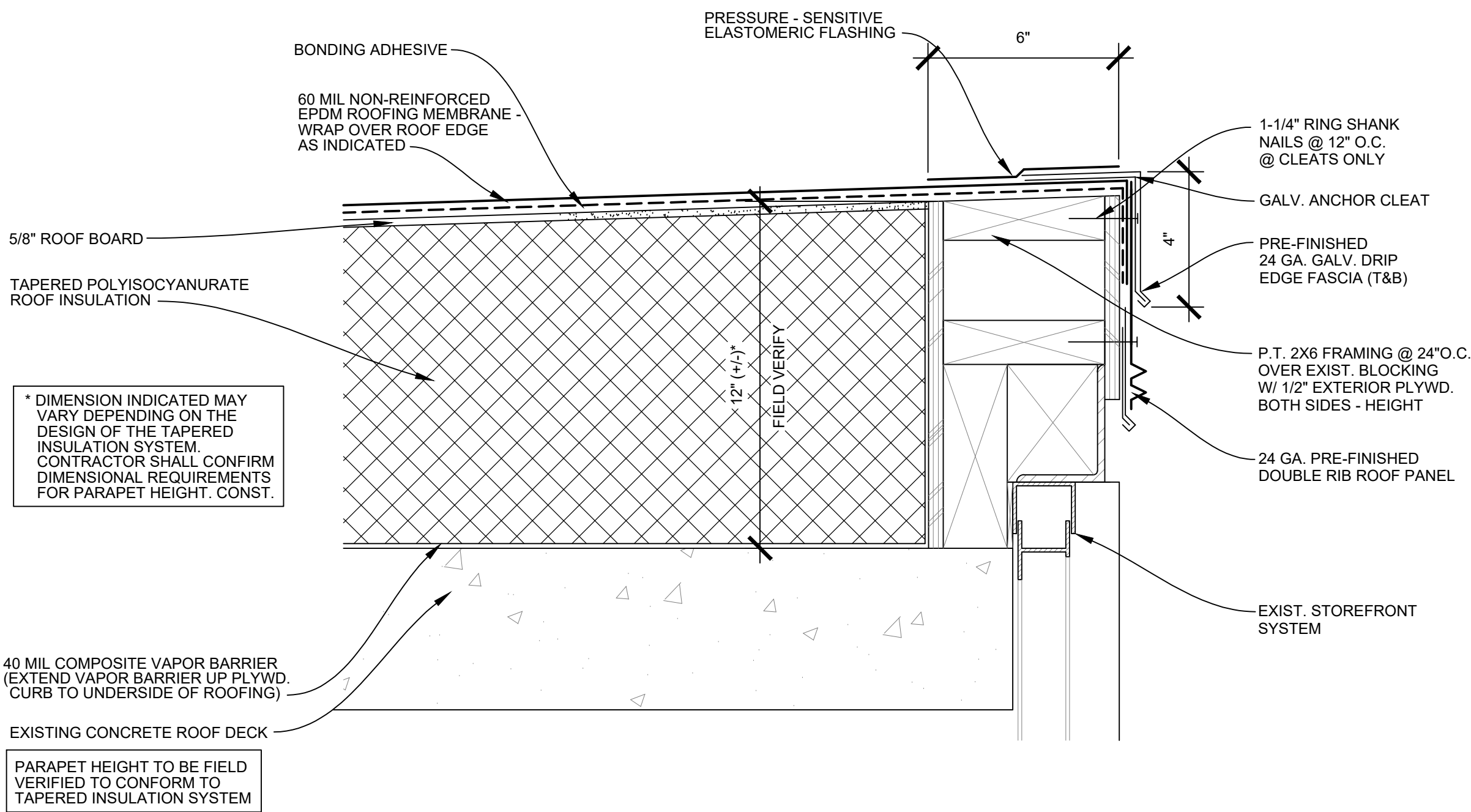
ROOF PLAN - NORTH/DETAILS

A104

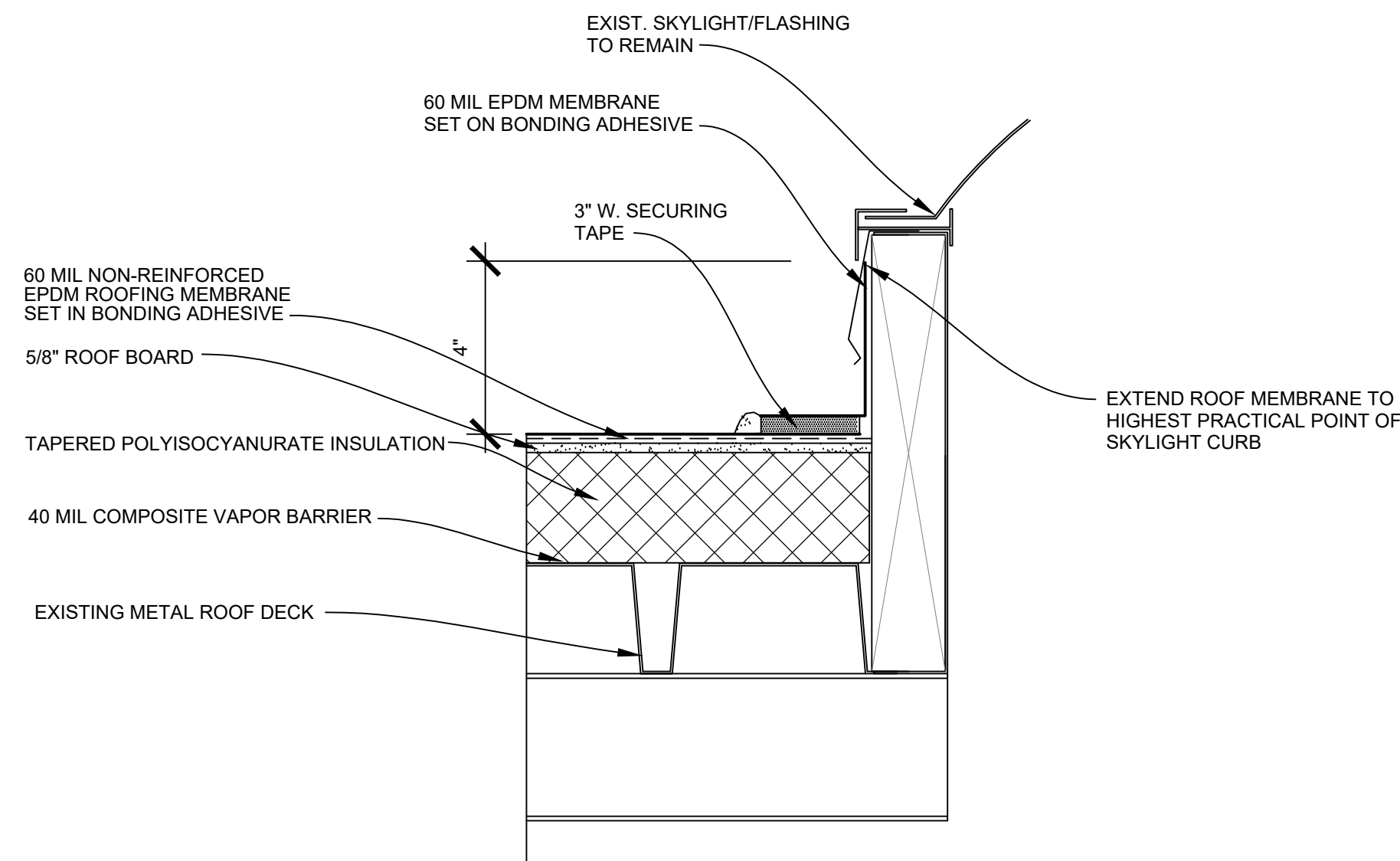
SHEET 5 OF 8 SHEETS

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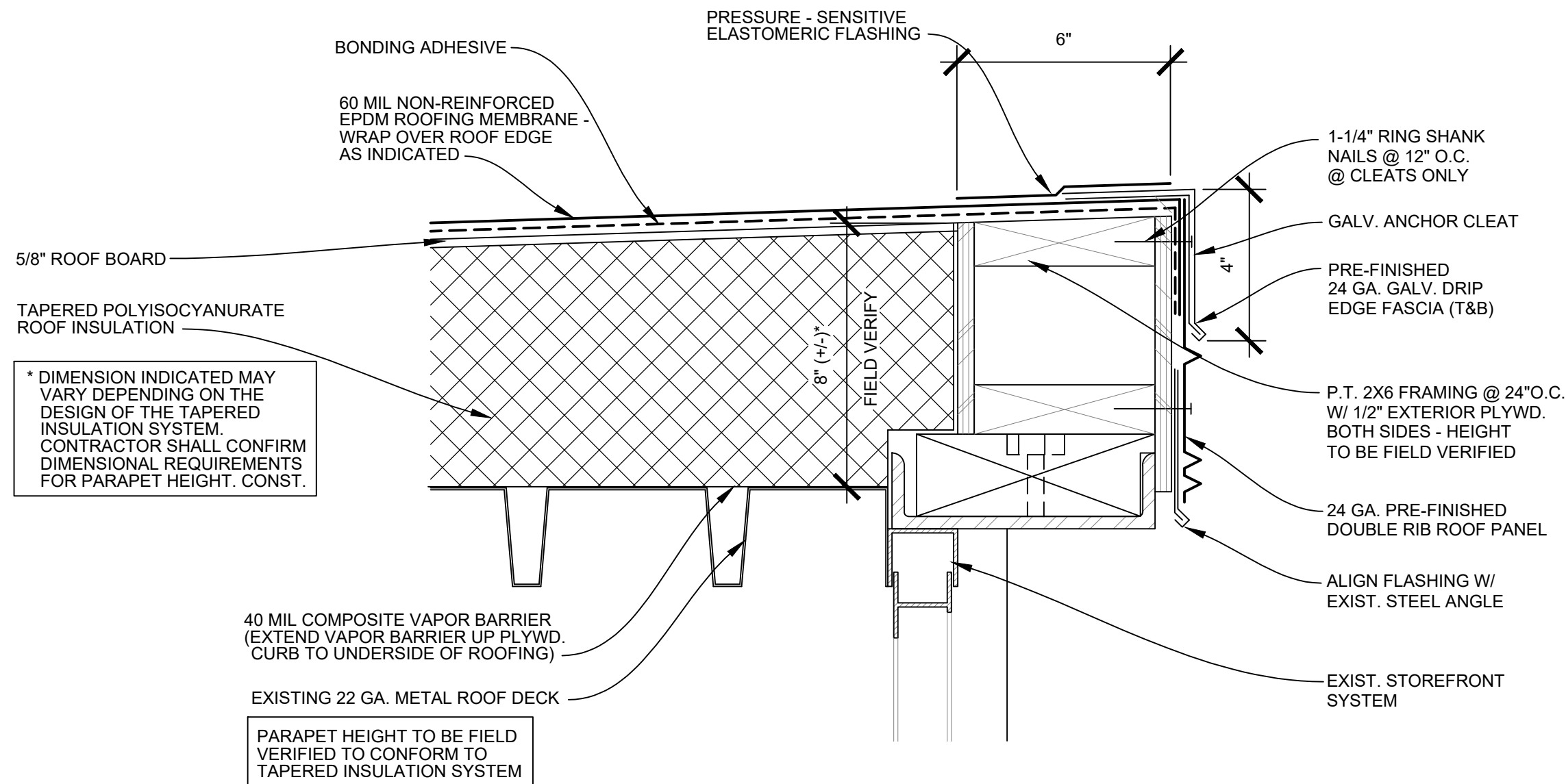
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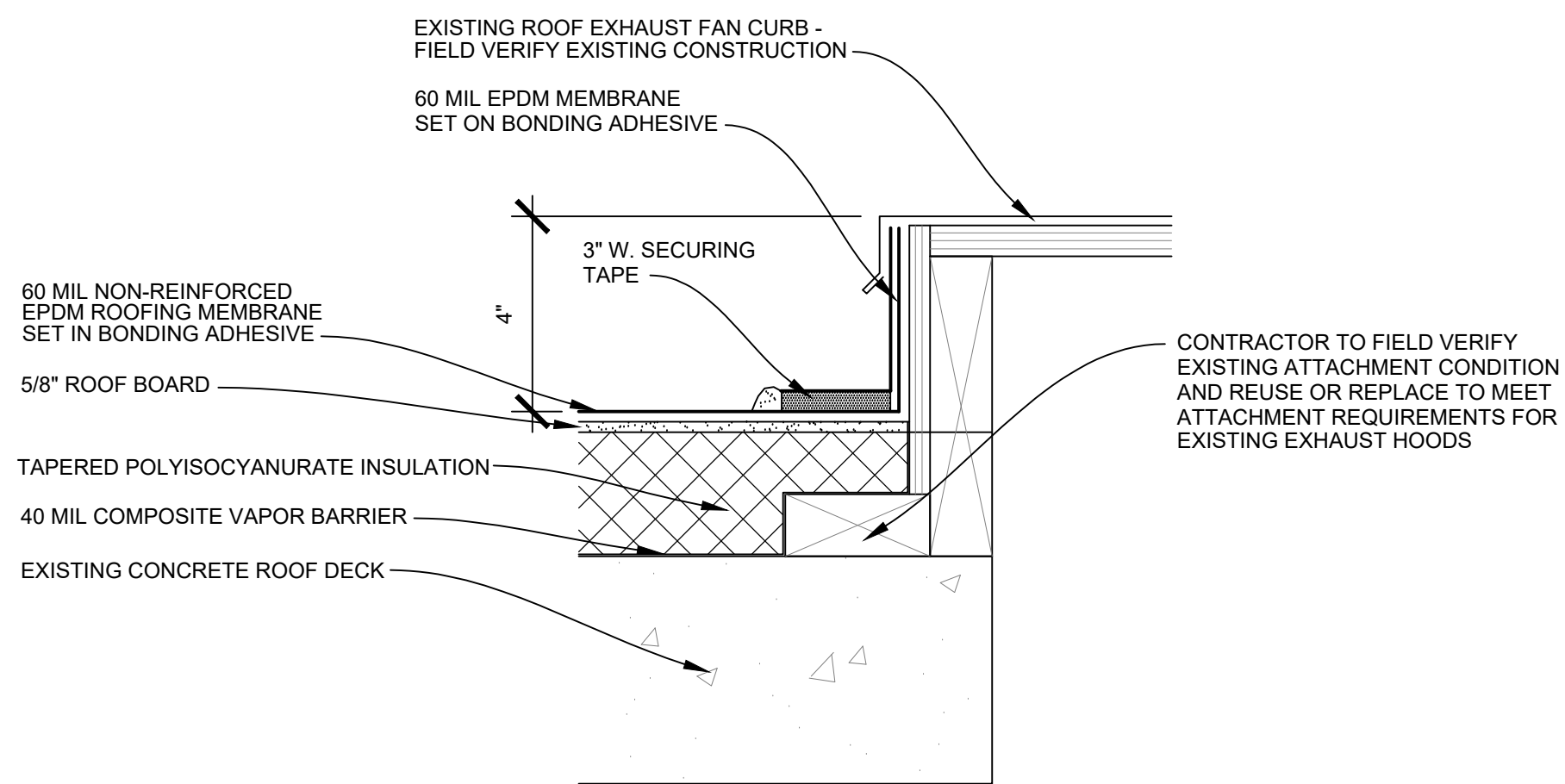
C1 TYPICAL PARAPET DETAIL - CONCRETE ROOF DECK
3"=1'-0"



A1 TYPICAL CURB DETAIL - SKYLIGHTS
3"=1'-0"



C5 TYPICAL PARAPET DETAIL - METAL ROOF DECK
3"=1'-0"



A5 TYPICAL CURB DETAIL
3"=1'-0"

DESIGN FIRM:

Pda
Palouse Design Associates, PLLC

2205 W. Caden Ave.
Spokane, WA 99208
509.432.6652

CONSULTANTS:

PROVISIONAL STAMP:

4687
Sam D. Brummett
CRAG D. BEAUMONT
STATE OF WASHINGTON

WASHINGTON STATE UNIVERSITY

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Pullman, Wa. 99164-3611

HAMILTON HALL

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FACILITY NO. 2068

MARK	DATE	DESCRIPTION
	4/24/23	CONSTRUCTION DOCUMENTS
	4/11/23	75% REVIEW

CAD DWG FILE: HAMILTONROOF.DWG
DESIGN BY: CB
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PROJECT No. 1933-2023 FILE No. 2068-G-014
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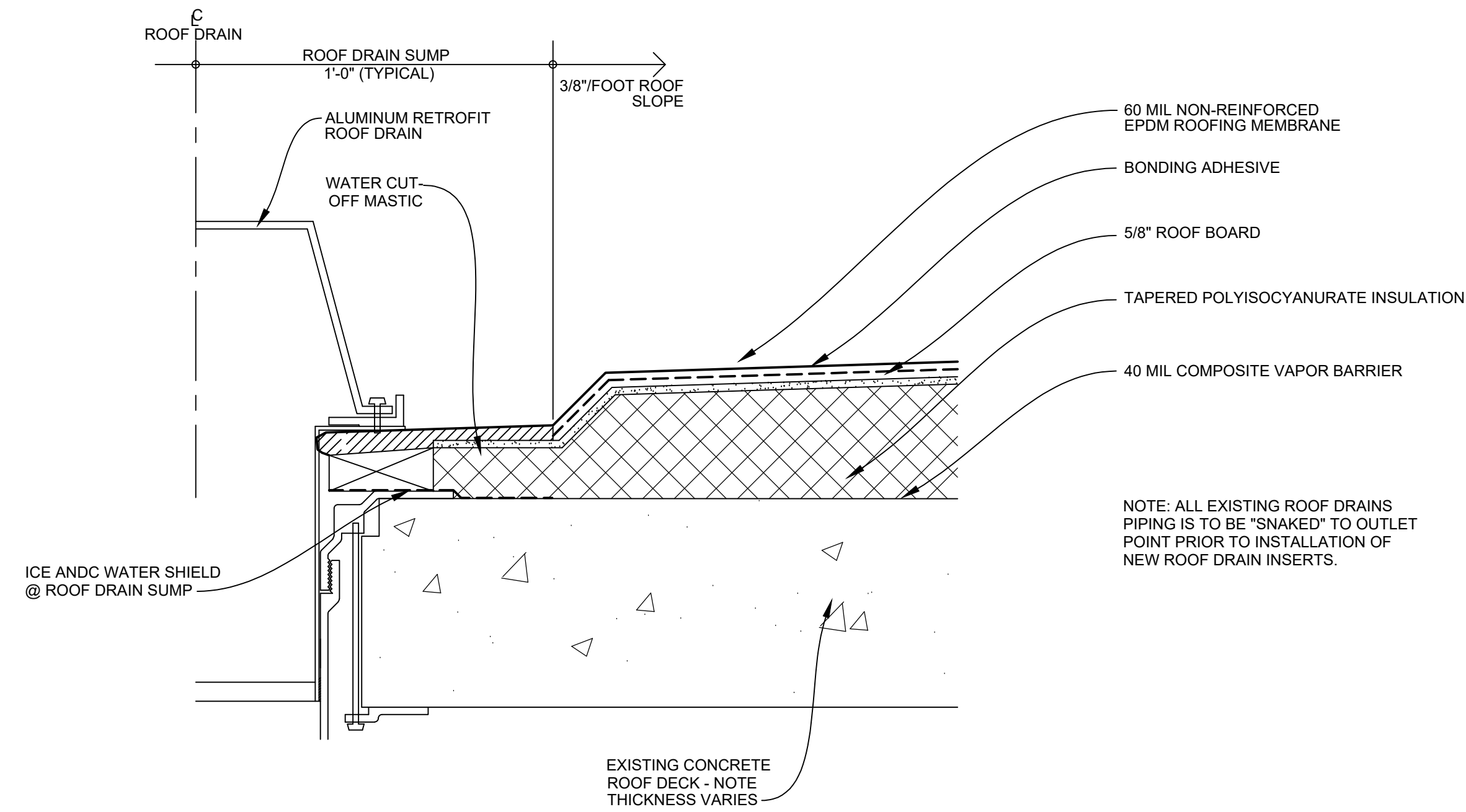
SHEET TITLE

DETAILS

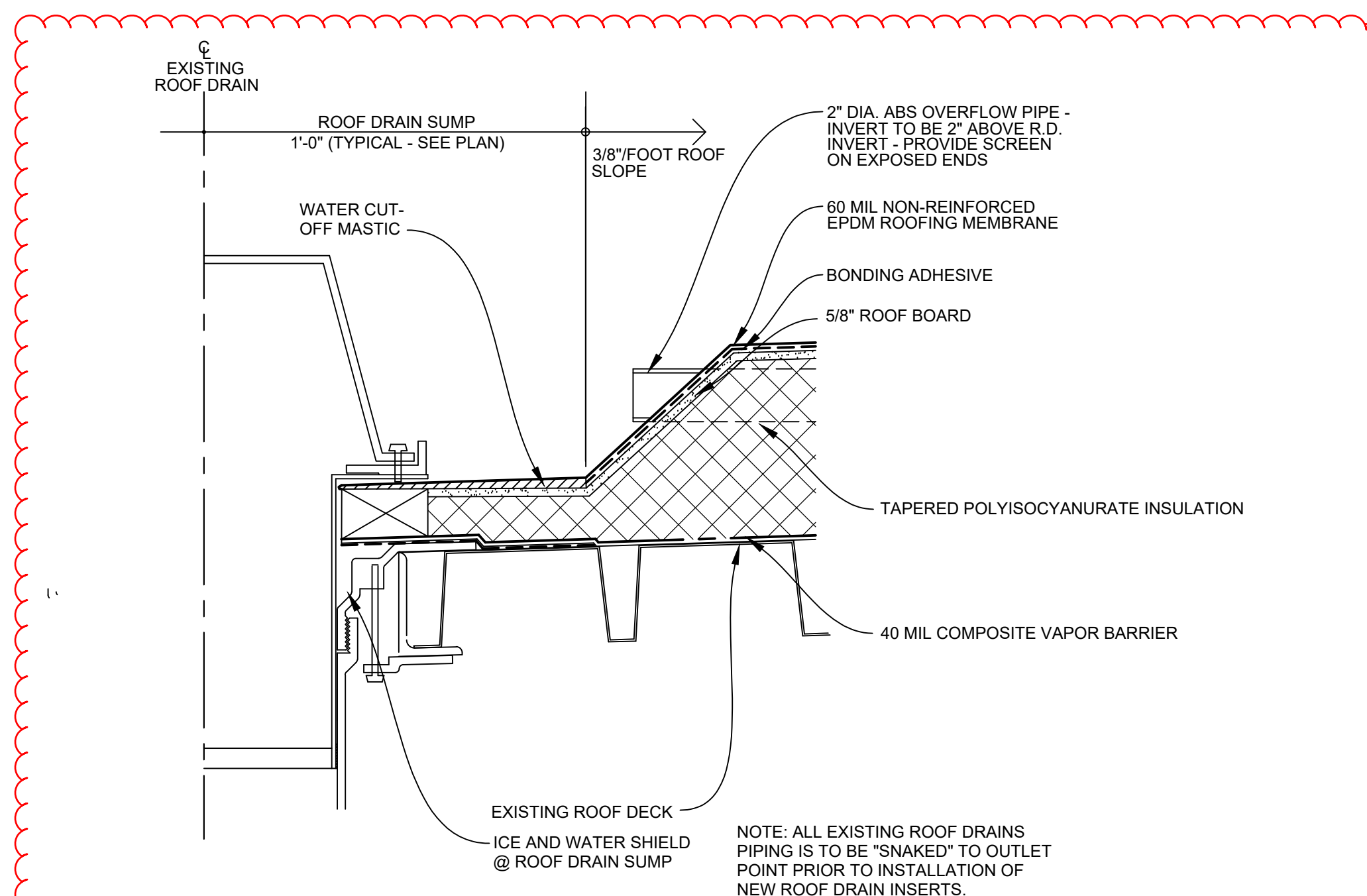
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SHEET 6 OF 8 SHEETS

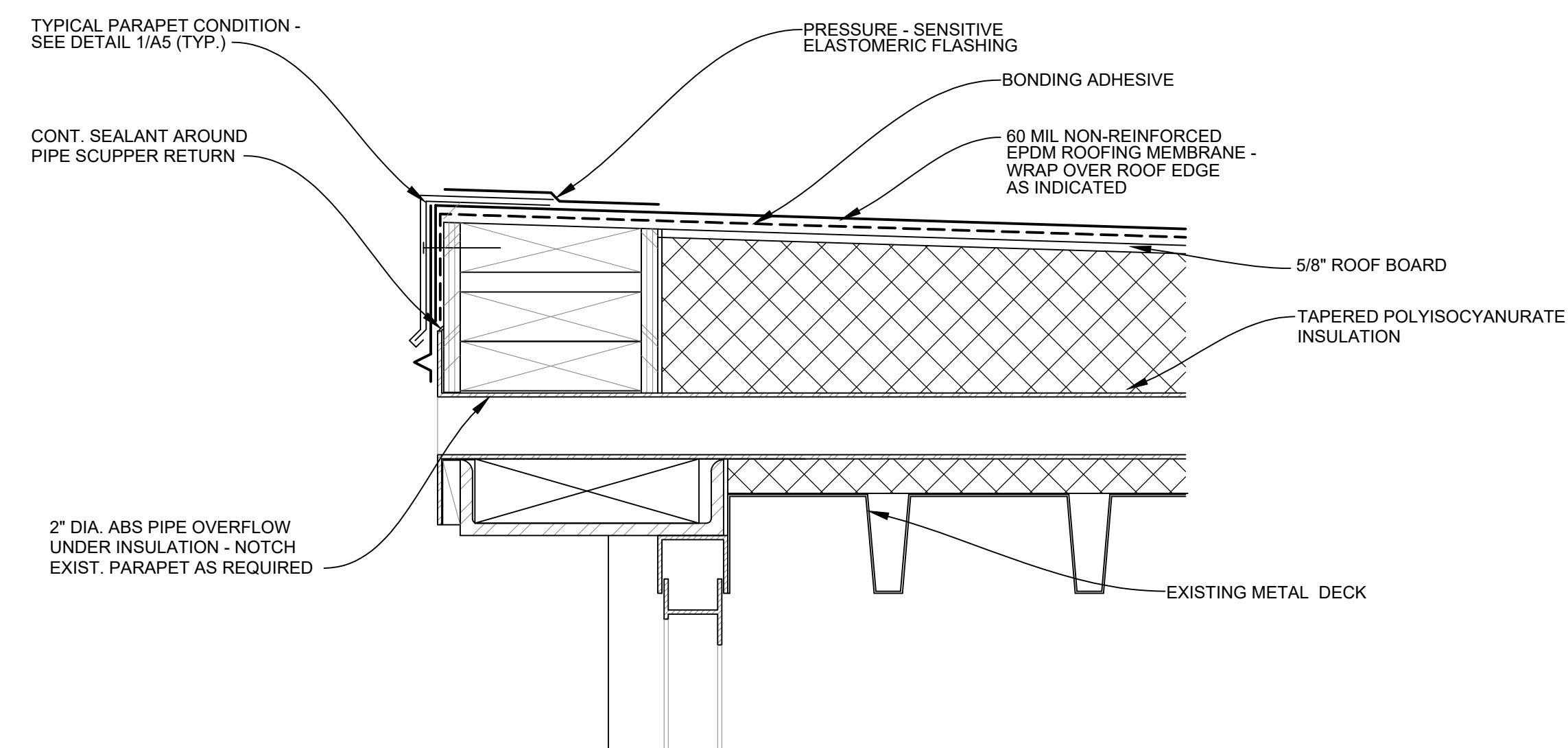
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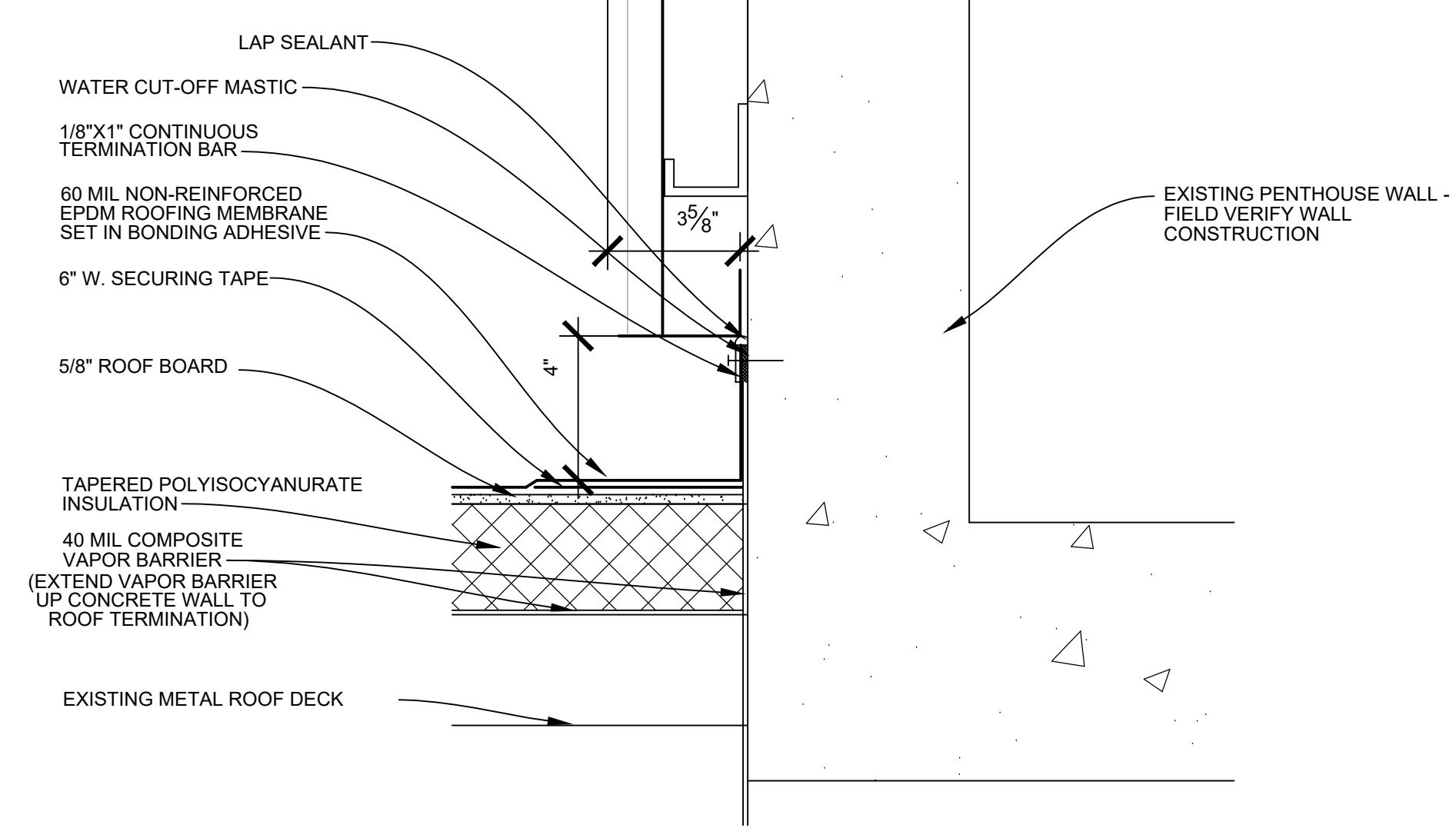
C1 TYPICAL ROOF DRAIN DETAIL - CONCRETE ROOF DECK
3"=1'-0"



C5 TYPICAL ROOF DRAIN DETAIL - METAL ROOF DECK
3"=1'-0"

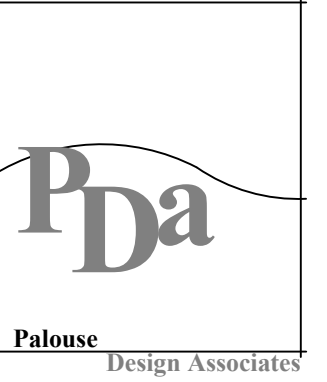


A1 OVERFLOW SCUPPER DETAIL
3"=1'-0"



A5 WALL BASE DETAIL AT PENTHOUSE
3"=1'-0"

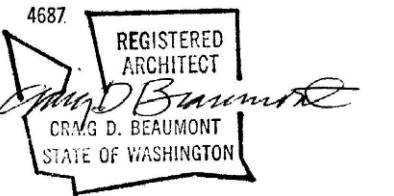
DESIGN FIRM:



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CONSULTANTS:

PROVISIONAL STAMP:



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HAMILTON HALL

PROSSER HAMILTON LAB BLDG.
ROOF REPLACEMENT

FACILITY NO. 2068

MARK	DATE	DESCRIPTION
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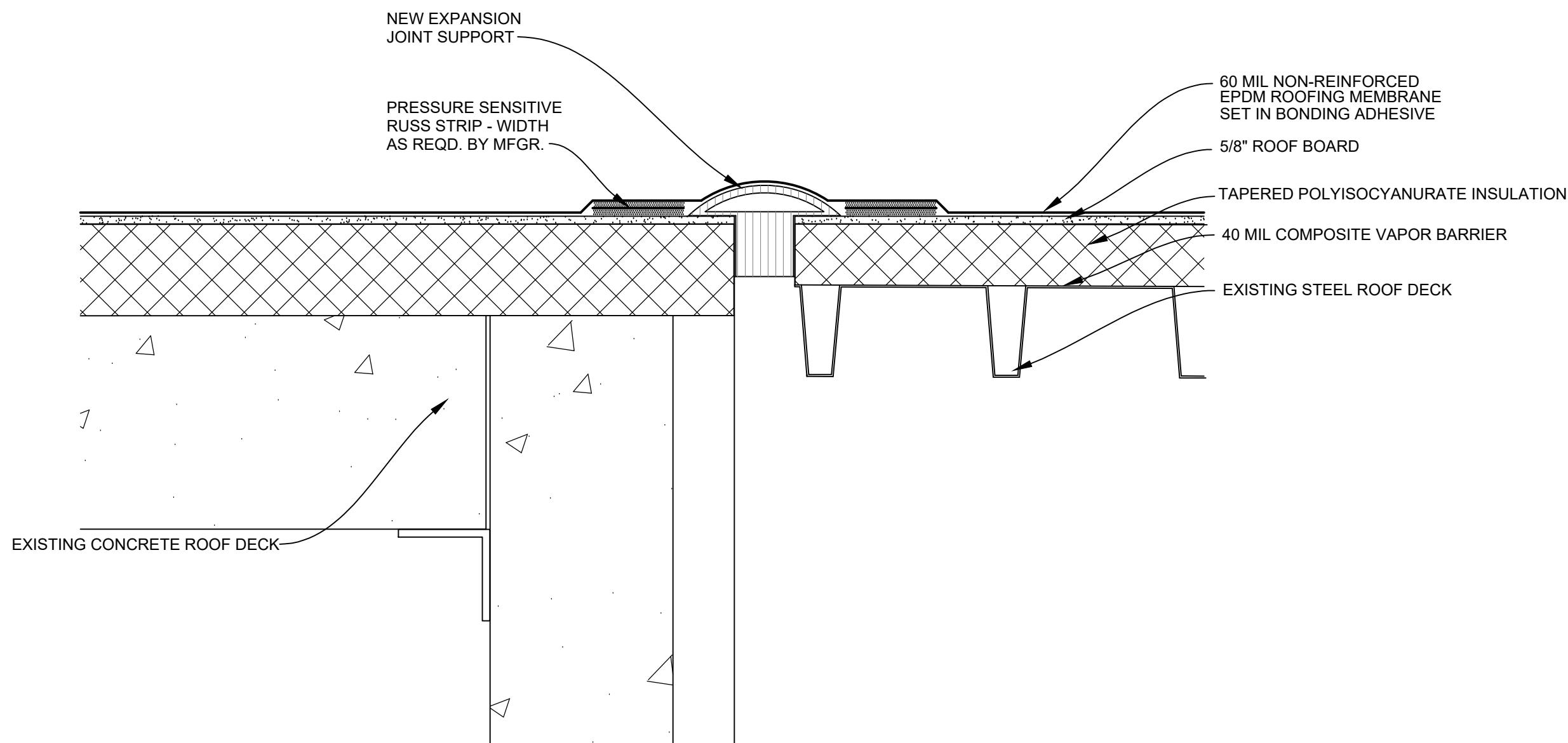
SHEET TITLE

DETAILS

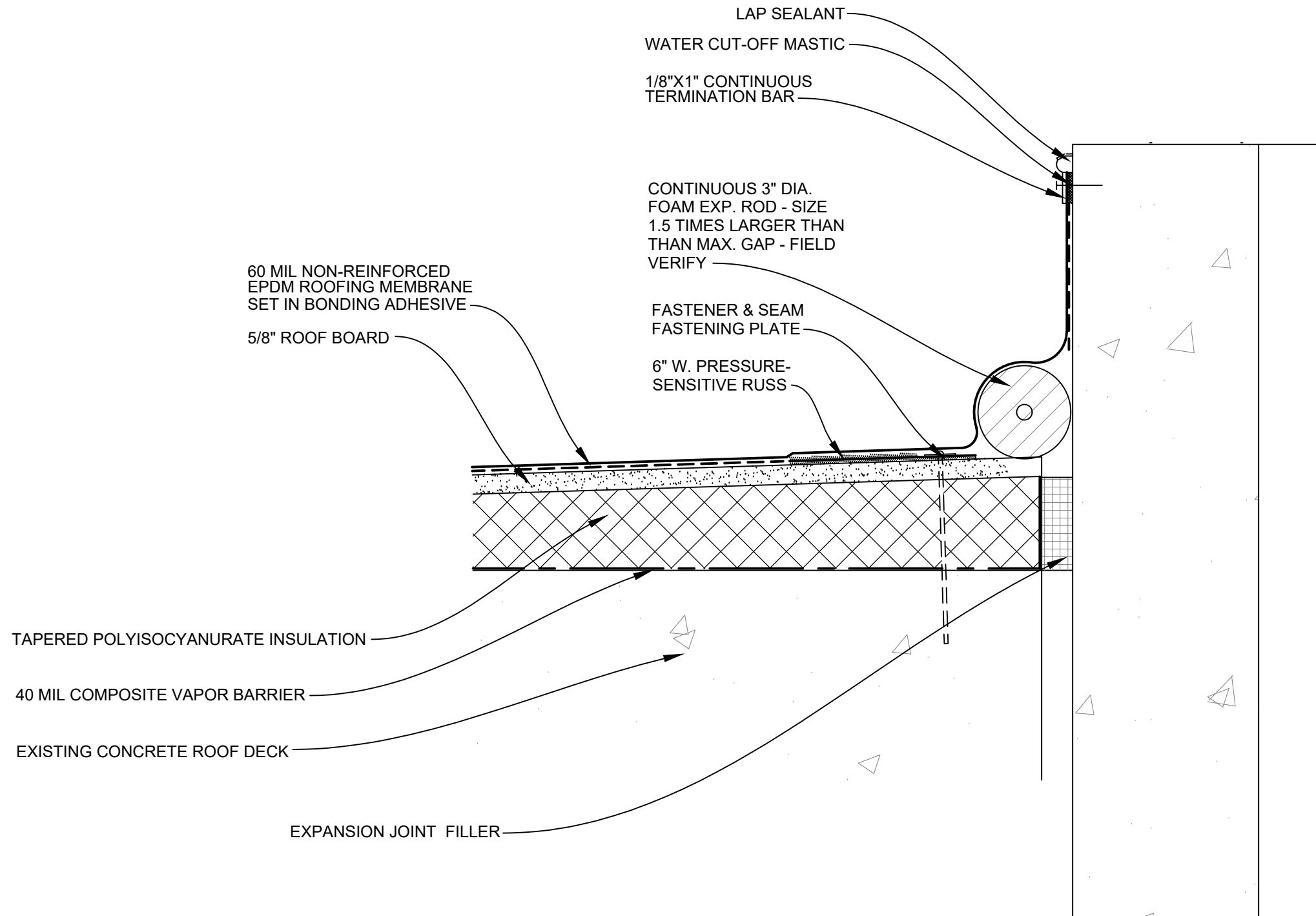
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SHEET 7 OF 8 SHEETS

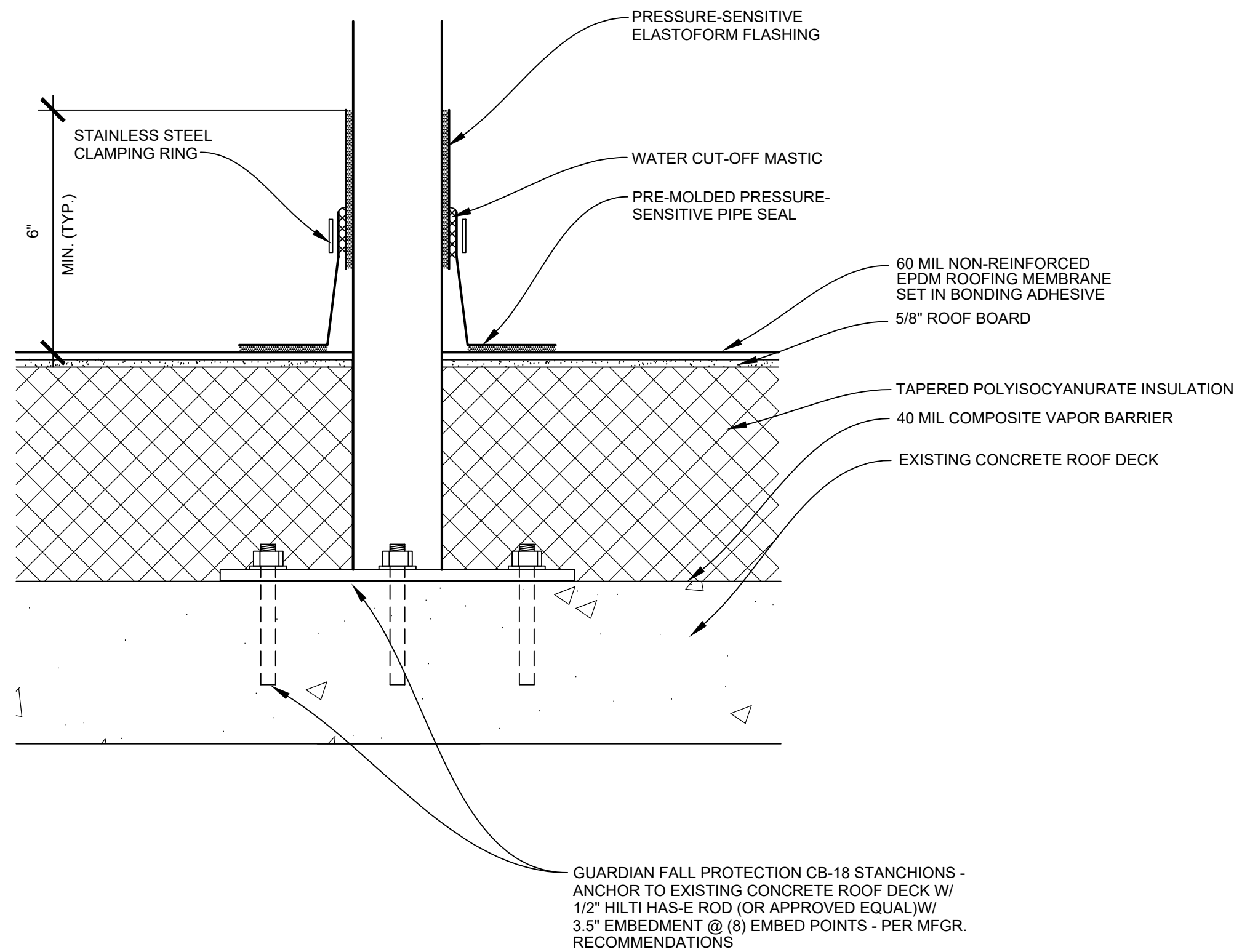
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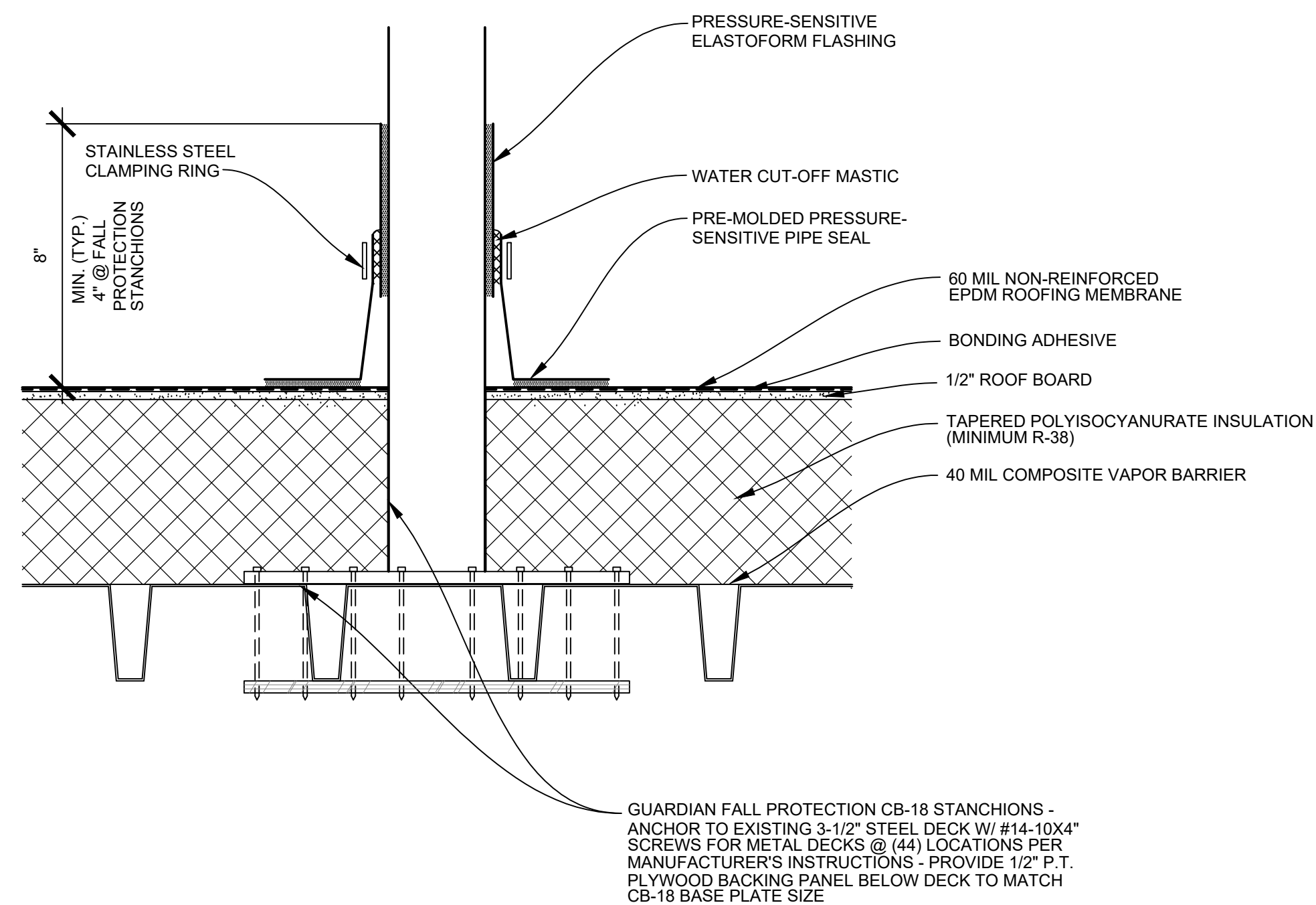
C1 EXPANSION JOINT DETAIL
3"=1'-0"



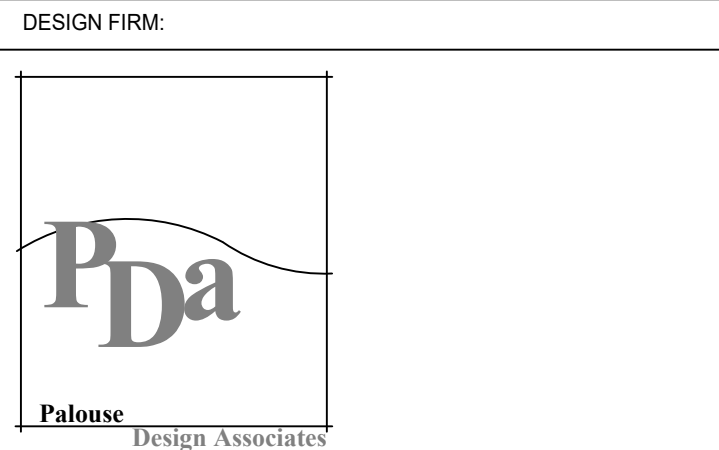
C5 EXPANSION JOINT DETAIL
3"=1'-0"



A1 FALL PROTECTION DETAIL - CONCRETE ROOF DECK
3"=1'-0"



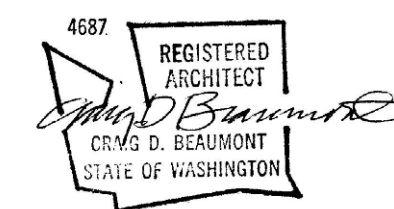
A5 FALL PROTECTION DETAIL - CONCRETE ROOF DECK
3"=1'-0"



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ROOF REPLACEMENT

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MARK	DATE	DESCRIPTION
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	4/11/23	75% REVIEW

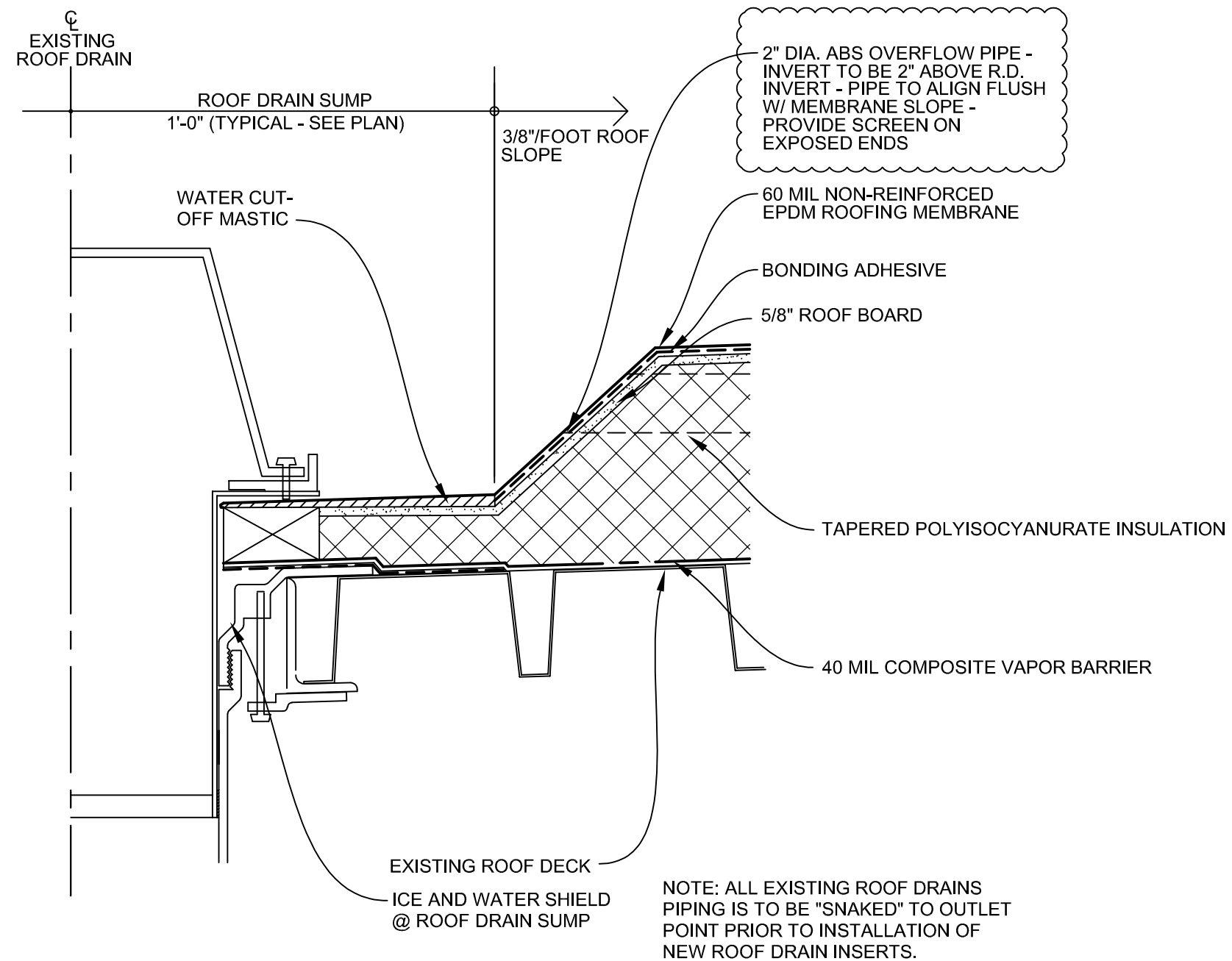
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SHEET TITLE

DETAILS

A107

SHEET 8 OF 8 SHEETS

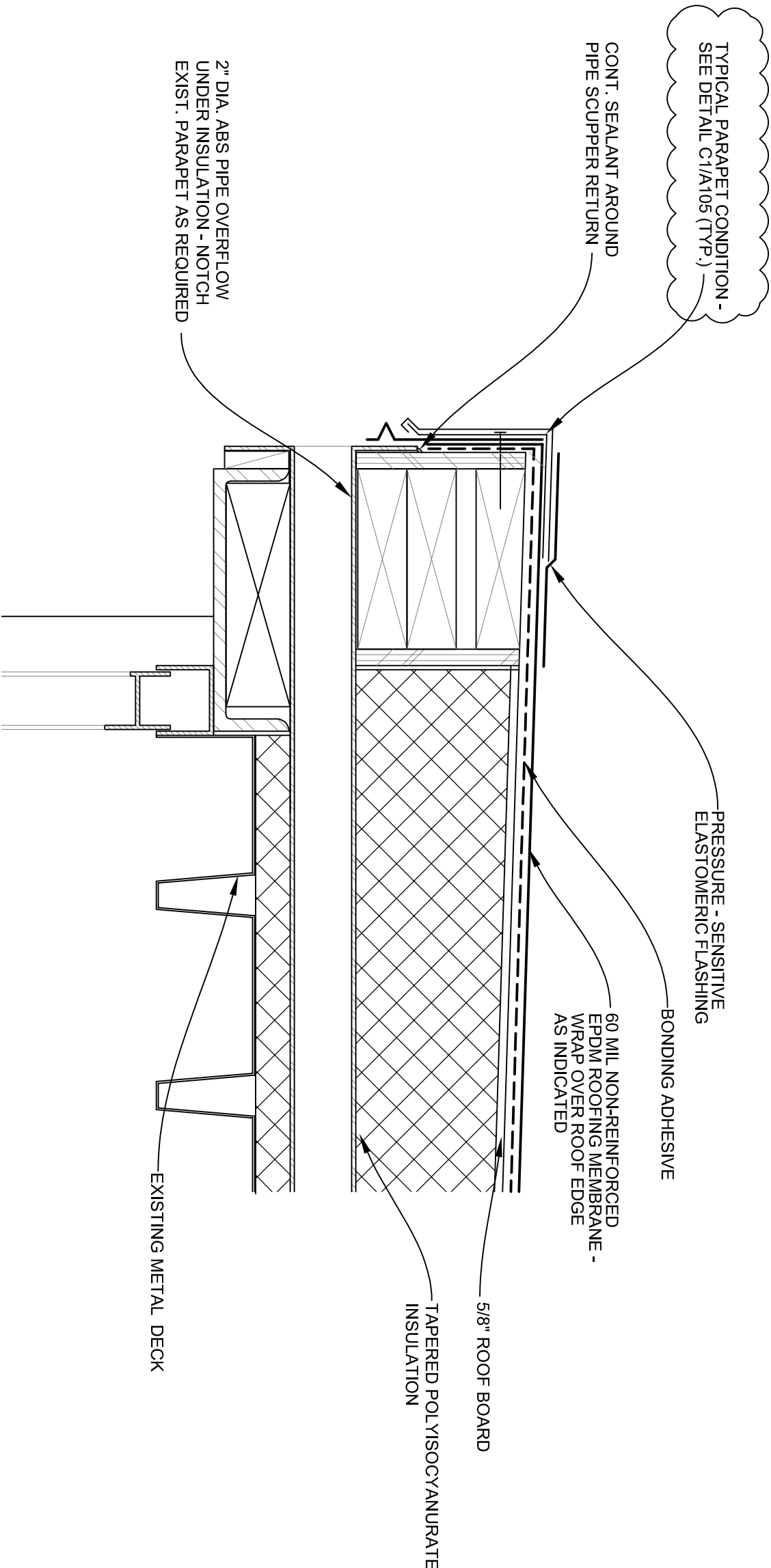


OVERFLOW PIPE REVISION

3"=1'-0"

5/4/23

PROSSER HAMILTON LAB BLDG. ROOF REPLACEMENT



OVERFLOW PIPE REVISION

3"=1'-0"

5/4/23

PROSSER HAMILTON LAB BLDG. ROOF REPLACEMENT