



ADDENDUM NO. 2

Price-Martin Facility Hardening

Located at 220 North 11th Street in the City of Palatka (Putnam County), Florida

Monday, February 10, 2025

Architect of Record: Passero Associates, LLC
4730 Casa Cola Way, Suite 200
St. Augustine, FL 32095
(904) 224-7082

Christopher Nardone, AIA
cnardone@passero.com

PASSERO
architecture engineering

Florida Commerce Agreement No. I0146

Passero Associates Project No. 20213160.0006

ADDENDUM NO. 2
Price-Martin Facility Hardening
City of Palatka
Monday, February 10, 2025

The following items are clarifications, corrections, or additions to the contract documents. **THIS ADDENDUM TAKES PRECEDENCE OVER THE ORIGINAL PARTS OF THE CONTRACT DOCUMENTS.**

All the parts of the contract documents, not specifically modified by this or other addenda, remain in full force and effect.

Bidders shall thoroughly familiarize themselves with the contents of this Addendum before submitting bid proposals. **IT SHALL BE THE BIDDER'S RESPONSIBILITY TO INFORM THE SUBCONTRACTORS, SUPPLIERS, MANUFACTURERS AND OTHER PARTIES PARTICIPATING IN THE WORK OF APPLICABLE REQUIREMENTS IN THIS ADDENDUM.**

Bidders shall acknowledge receipt of this addendum, identified by number and date, on the Addenda Receipt form included in the Proposal Section of the Contract Documents and submitted as part of their Proposal. Failure to acknowledge receipt of Addendum may be grounds for rejection of the bid proposal.

Items amended to the Contract Documents are as follows:

BID FORMS

DRAWINGS – ARCHITECTURAL

NOTE the addition of information clarifying the removal of the lower roof and the existing slope of the lower roof on ADDENDUM NO. 2 AD-101

NOTE the identification of an existing gutter and downspout to be removed on drawing sheet ADDENDUM NO. 2 AD-200

NOTE the graphic depiction of crickets to be provided in new construction and the clarification of the new slope on both the upper and lower roofs on drawing sheet ADDENDUM NO. 2 A-101

NOTE the addition of a new gutter and downspout to be provided in new construction as well as clarification regarding incorporating tapered insulation into the wall with no parapet on drawing sheet ADDENDUM NO. 2 A-200

NOTE the clarification regarding incorporating tapered insulation into the wall with no parapet in detail 2 on drawing sheet ADDENDUM NO. 2 A-310

DRAWINGS – STRUCTURAL

DRAWINGS – MEP

BIDDERS QUESTIONS AND ANSWERS

Q1: See attached for substitution request.

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A1: The architect has reviewed the substitution request for the roofing materials and finds it to be in alignment with the project's requirements and design intent.

Q2: The modified bitumen section states finished roof slope shall be [1/4]" per foot minimum for roof drainage. Sheet A-102 shows a roof slope of 1/8" on the main roof. Is this slope in the deck or the finished roof slope?

A2: The existing roof slope is 1/8." However, according to the 2023 Florida Building code, the minimum slope for a modified bitumen membrane is ¼" slope. Therefore, the slope should be ¼" per 12", or 2%. See revised drawing sheet ADDENDUM NO. 2 A-101.

Q3: The modified bitumen section states Total Thermal Resistance R Value, continuous insulation (ci) above deck: R-[15]. Sheet A-102 states the minimum insulation to be R25.

A3: According to specification section 01 40 00 – QUALITY REQUIREMENTS, if conflicting requirements occur throughout the bid documents, the more stringent requirements should be followed. Therefore, provide R-25 per sheet A-102.

Q4: There are no crickets shown between the scuppers, are they required?

A4: Yes, provide crickets between scuppers to allow for drainage and avoid ponding. See revised drawing sheet ADDENDUM NO. 2 A-101.

Q5: How are we to incorporate the tapered insulation on the left wall (2/A-310)?

A5: Provide one to four 2x8 P.T. wood plates staggered as required and fastened to the existing concrete tie beam. Provide rigid insulation as required to achieve ¼"/12" slope over staggered plates. See revised detail on drawing sheet ADDENDUM NO. 2 A-310.

Q6: The smaller area on the bottom of Sheet A-102 has no slope shown. Is there slope in the deck or is tapered required?

A6: The lower roof should also meet the ¼" per 12" slope code requirement laid out in the 2023 Florida Building Code. Tapered insulation is required. The existing roof is at 1/8" per 12" slope. See revised drawing sheet ADDENDUM NO. 2 A-101.

ADDITIONAL DOCUMENTS INCLUDED

ADDENDUM NO. 2 AD-101

ADDENDUM NO. 2 AD-200

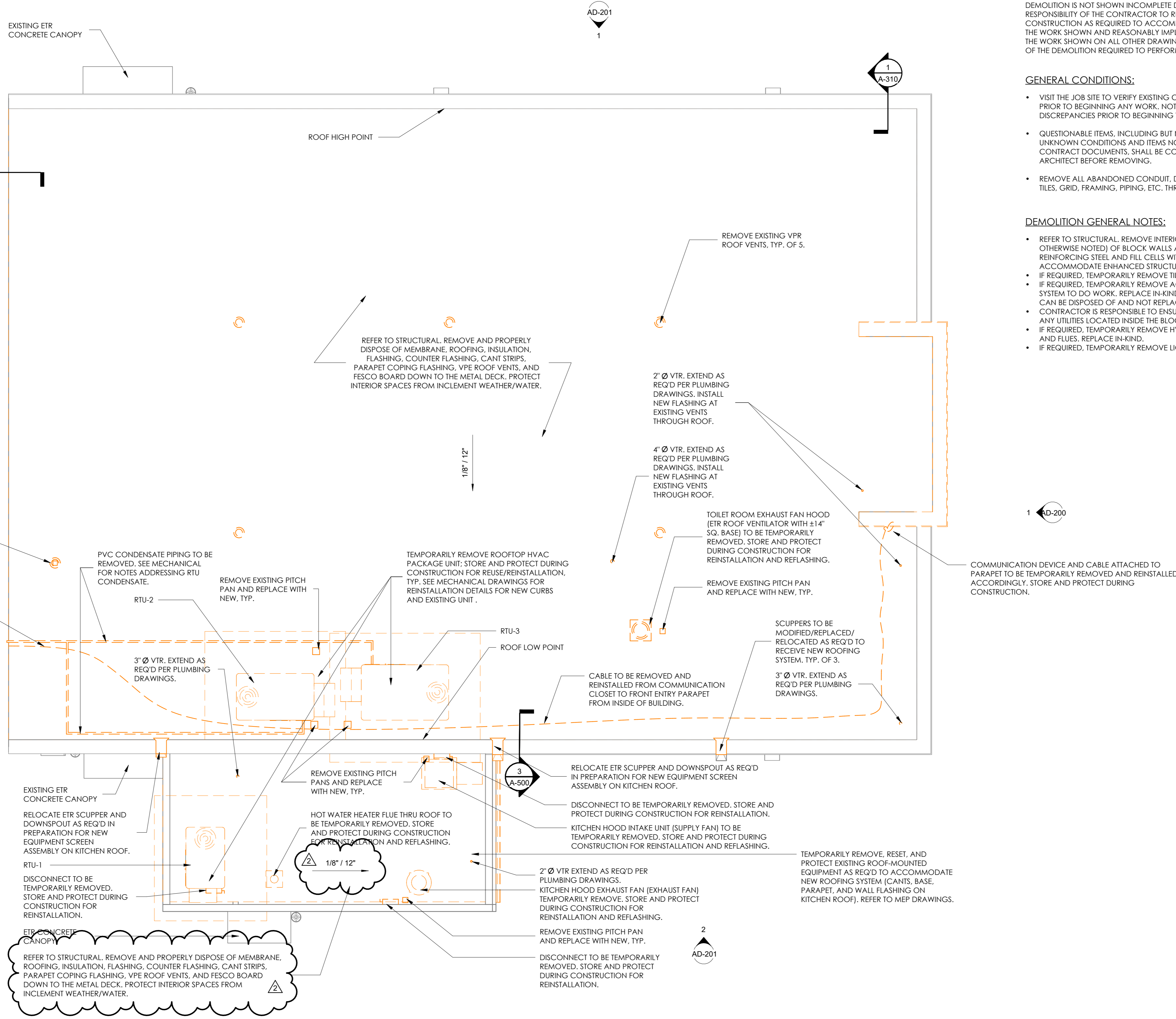
ADDENDUM NO. 2 A-101

ADDENDUM NO. 2 A-200

ADDENDUM NO. 2 A-310

Roofing Materials Substitution Request – Johns Manville

END OF ADDENDUM NO. 2



1 ROOF DEMO PLAN
 0' 1' 2' 4' 8'
 3/16" = 1'-0"

DEMOLITION SCOPE:
 THE EXISTING CONDITION / DEMOLITION DRAWINGS ARE INTENDED AS A GENERAL GUIDE TO THE DEMOLITION REQUIRED FOR THIS PROJECT. DEMOLITION IS NOT SHOWN IN COMPLETE DETAIL AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE EXISTING CONSTRUCTION AS REQUIRED TO ACCOMPLISH THE DESIGN INTENT FOR THE WORK SHOWN AND REASONABLY IMPLIED FOR THE PROJECT. REFER TO THE WORK SHOWN ON ALL OTHER DRAWINGS IN THE SET FOR THE EXTENT OF THE DEMOLITION REQUIRED TO PERFORM THE WORK INTENT.

- GENERAL CONDITIONS:**
- VISIT THE JOB SITE TO VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING ANY WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING THE WORK.
 - QUESTIONABLE ITEMS, INCLUDING BUT NOT LIMITED TO FOUND / UNKNOWN CONDITIONS AND ITEMS NOT SHOWN / LISTED IN THE CONTRACT DOCUMENTS, SHALL BE COORDINATED WITH THE ARCHITECT BEFORE REMOVING.
 - REMOVE ALL ABANDONED CONDUIT, DUCTWORK, HANGERS, CEILING TILES, GRID, FRAMING, PIPING, ETC. THROUGH THE WORK AREA.

- DEMOLITION GENERAL NOTES:**
- REFER TO STRUCTURAL. REMOVE INTERIOR FACE SHELLS (UNLESS OTHERWISE NOTED) OF BLOCK WALLS AS REQUIRED TO INSTALL REINFORCING STEEL AND FILL CELLS WITH GROUT WHERE REQUIRED TO ACCOMMODATE ENHANCED STRUCTURAL CAPACITY.
 - IF REQUIRED, TEMPORARILY REMOVE TILE BASE. REPLACE IN-KIND.
 - IF REQUIRED, TEMPORARILY REMOVE ACOUSTIC CEILING TILE (ACT) SYSTEM TO DO WORK. REPLACE IN-KIND. NOTE: R-30 BATT INSULATION CAN BE DISPOSED OF AND NOT REPLACED.
 - CONTRACTOR IS RESPONSIBLE TO ENSURE THERE IS NO ELECTRICAL OR ANY UTILITIES LOCATED INSIDE THE BLOCK WALLS PRIOR TO CUTTING.
 - IF REQUIRED, TEMPORARILY REMOVE HVAC DUCTS, REGISTERS, VENTS, AND FLUES. REPLACE IN-KIND.
 - IF REQUIRED, TEMPORARILY REMOVE LIGHTING. REPLACE IN-KIND.



BID SET

STAMP:

CLIENT:
 201 N 2ND STREET
 PALATKA, FL 32177



Passero Associates

4730 CASA COIA WAY, SUITE 200 (904) 757-6106
 ST. AUGUSTINE, FL 32095

PROJECT MANAGER: Justin Vollenweider, AIA
 PROJECT ARCHITECT: Christopher Narbonne, AIA
 DESIGNER: Katie Kemeck, Assoc. AIA
 DESIGNER: Stephanie Roberts, Assoc. AIA

NO.	DATE	BY	DESCRIPTION
2	2/10/25	KK	Addendum No. 2

UNAUTHORIZED USE OF THESE DRAWINGS IS IN VIOLATION OF FLORIDA ADMINISTRATIVE CODE §163.15-27-001 AND FLORIDA STATUTES 471.033(1). THESE PLANS ARE COPYRIGHT PROTECTED.

ROOF DEMOLITION PLAN

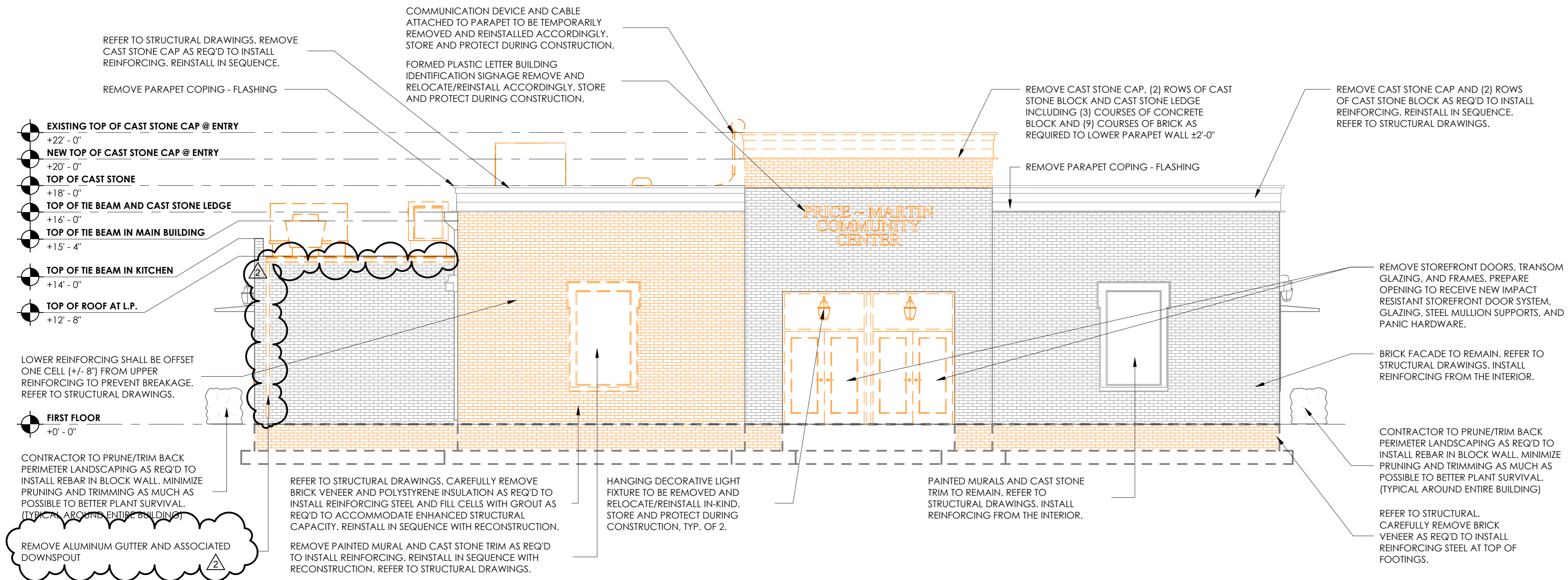
**CITY OF PALATKA
 PRICE-MARTIN
 COMMUNITY CENTER**

Price-Martin Facility Hardening
 TOWN/CITY: PALATKA

COUNTY: PUTNAM STATE: FL
 PROJECT NO.: 20213160.0006

DRAWING NO.: AD-101

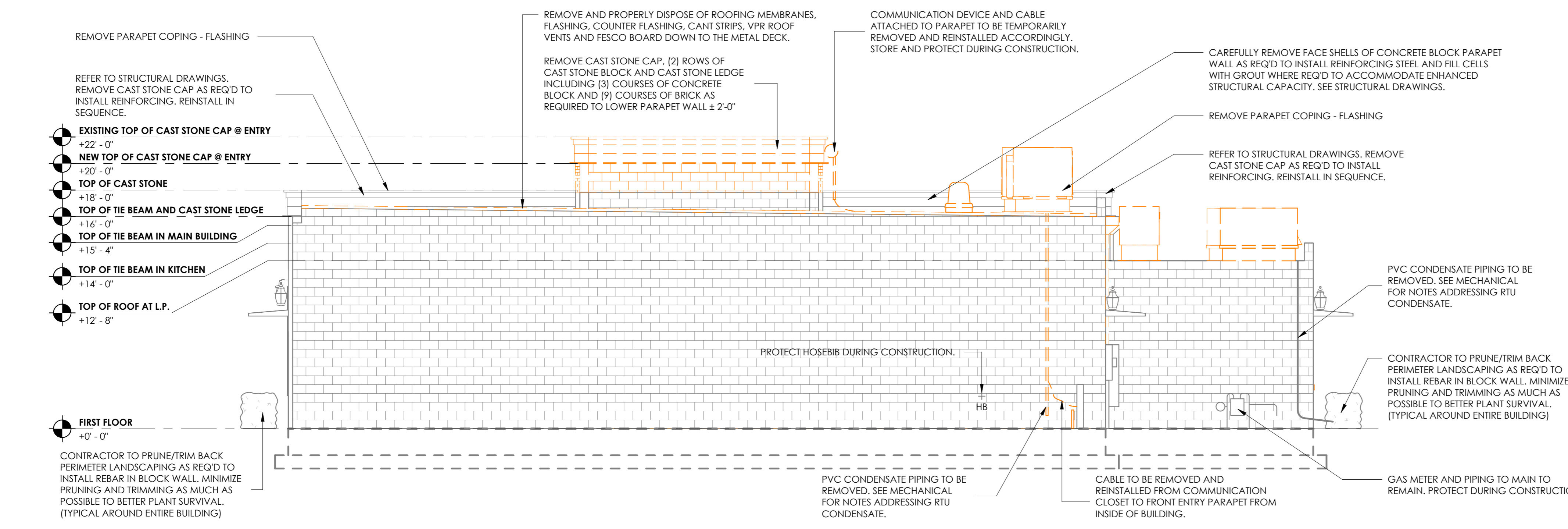
DATE: JANUARY 14, 2025



1 SOUTH ELEVATION - DEMO

0' 2' 4' 8' 16'

3/16" = 1'-0"



2 NORTH ELEVATION - DEMO

0' 4' 8' 16' 32'

3/16" = 1'-0"

DEMOLITION SCOPE:

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- IF REQUIRED, TEMPORARILY REMOVE ACOUSTIC CEILING TILE (ACT) SYSTEM TO DO WORK. REPLACE IN-KIND. NOTE: R-30 BATT INSULATION CAN BE DISPOSED OF AND NOT REPLACED.
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- IF REQUIRED, TEMPORARILY REMOVE LIGHTING. REPLACE IN-KIND.



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**NORTH/SOUTH
DEMOLITION
ELEVATIONS
CITY OF PALATKA
PRICE-MARTIN
COMMUNITY CENTER**

Price-Martin Facility Hardening
TOWN/CITY: PALATKA
COUNTY: PUTNAM STATE: FL

PROJECT NO.:
20213160.0006

DRAWING NO.:
AD-200

DATE:
JANUARY 14, 2025

BID SET

STAMP:

CLIENT:
201 N 2ND STREET
PALATKA, FL 32177



Passero Associates

4730 CASA COLA WAY, SUITE 200 ST. AUGUSTINE, FL 32095 (904) 757-6106

PROJECT MANAGER: Justin Vollenweider, AIA
PROJECT ARCHITECT: Christopher Narbonne, AIA
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DESIGNER: Stephanie Roberts, Assoc. AIA

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ROOF PLAN

CITY OF PALATKA
PRICE-MARTIN
COMMUNITY CENTER

Price-Martin Facility Hardening
TOWN/CITY: PALATKA
COUNTY: PUTNAM STATE: FL

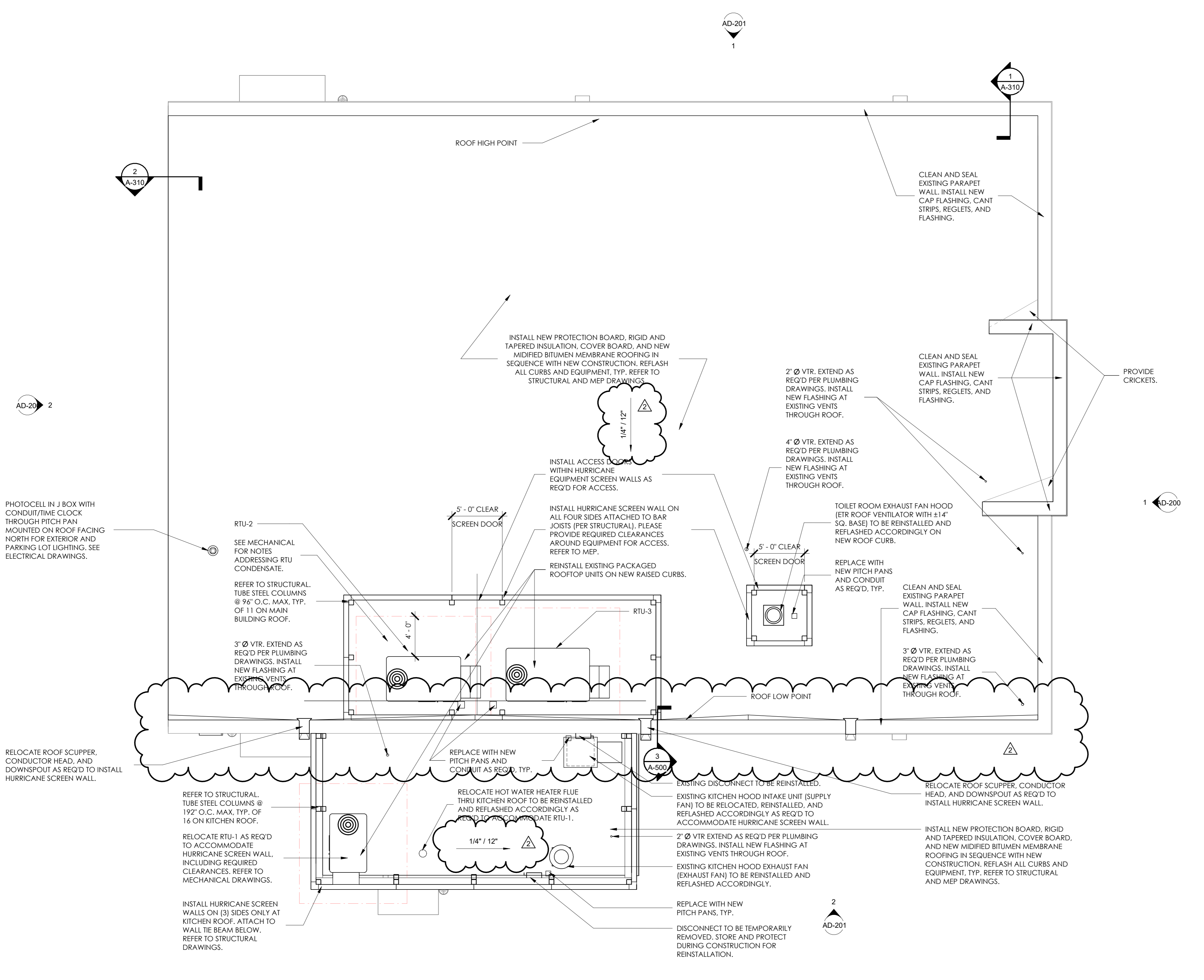
PROJECT NO.:
20213160.0006

DRAWING NO.:
A-102

DATE:
JANUARY 14, 2025

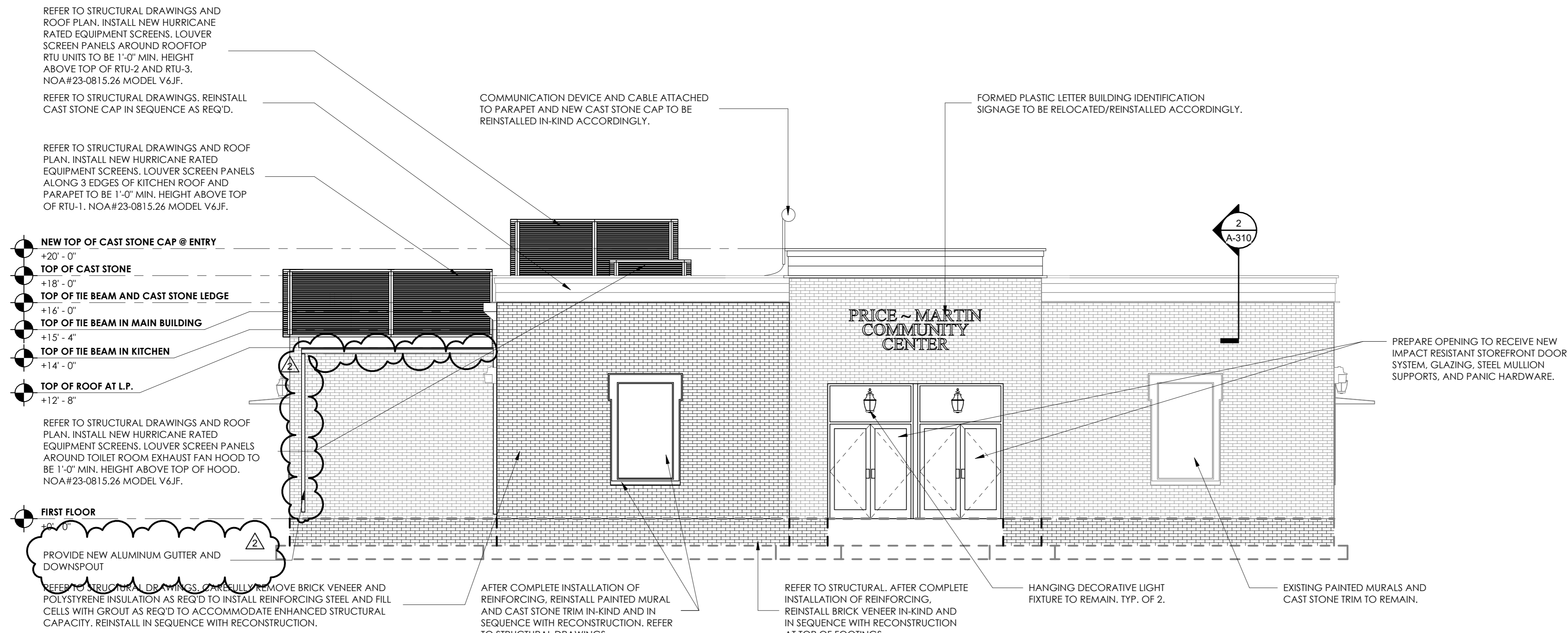
FLOOR PLAN GENERAL NOTES:

- REGROUT EXTERIOR WALLS SMOOTH AS REQ'D WHERE CMU BLOCK FACE SHELLS ARE REMOVED FOR INSTALLATION OF REINFORCING.
- PATCH, PRIME, AND PAINT INTERIOR WALLS AS REQ'D TO MATCH EXISTING.
- REINSTALL ACOUSTIC CEILING TILE IN-KIND WHERE AFFECTED.
- REFER TO SHEET A-602 FOR DETAILS AND SCHEDULES OF REPLACEMENT EXTERIOR DOORS AND WINDOWS.



1 ROOF PLAN
0' 2' 4' 8' 16'
3/16" = 1'-0"

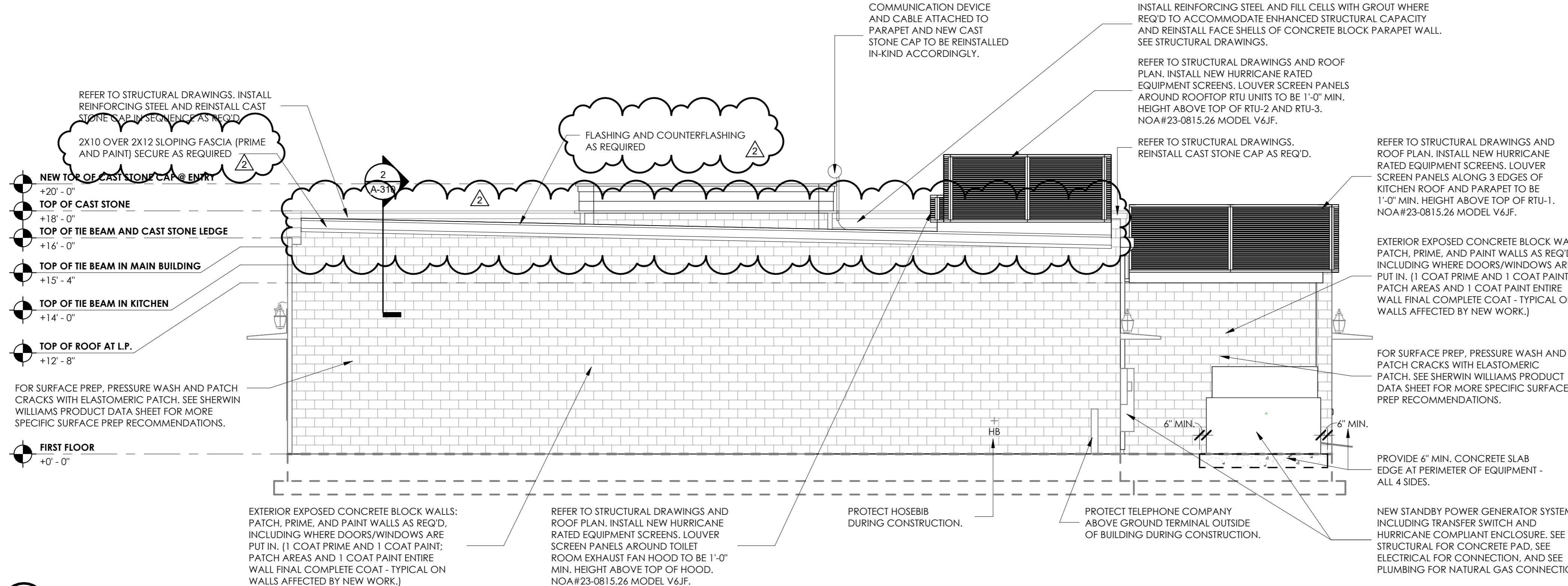




1 SOUTH ELEVATION



- EXTERIOR ELEVATION GENERAL NOTES:**
- REGROUT EXTERIOR WALLS AS REQ'D WHERE CMU BLOCK FACE SHELLS ARE REMOVED FOR INSTALLATION OF REINFORCING.
 - REFER TO SHEET A-602 FOR DETAILS AND SCHEDULES OF REPLACEMENT EXTERIOR DOORS AND WINDOWS.
 - FOR HURRICANE RATED EQUIPMENT SCREENS, TOP OF ROOF TO BASE OF LOUVER SCREEN PANEL AT 0'-8" MAX. CLEARANCE.
 - FOR HURRICANE RATED EQUIPMENT SCREENS, MAX. WIDTH OF LOUVER SCREEN PANEL AT 8'-0" (192").



2 NORTH ELEVATION



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**NORTH/SOUTH
EXTERIOR
ELEVATIONS
CITY OF PALATKA
PRICE-MARTIN
COMMUNITY CENTER**

Price-Martin Facility Hardening
TOWN/CITY: PALATKA
COUNTY: PUTNAM STATE: FL

PROJECT NO.:
20213160.0006

DRAWING NO.:
A-200

DATE:
JANUARY 14, 2025

REMOVE AND PROPERLY DISPOSE OF EXISTING ROOFING MEMBRANE, FLASHING, CAP FLASHING, CANT STRIPS, PARAPET COPINGS FLASHING, VPR ROOFING VENTS, AND FESCO BOARD DOWN TO THE METAL DECK. CONTRACTOR TO PROTECT INTERIOR SPACES FROM INCLEMENT WEATHER/WATER.

INSTALL NEW PROTECTION BOARD, RIGID AND TAPERED INSULATION (R-25 C.I. MIN.), COVER BOARD, AND NEW MODIFIED BITUMEN MEMBRANE ROOFING IN SEQUENCE WITH NEW CONSTRUCTION. REFLASH ALL CURBS AND EQUIPMENT, TYP. REFER TO STRUCTURAL AND MEP DRAWINGS.

R-30 INSULATION NOT REQ'D TO BE REPLACED OR RETURNED IN CEILING. INSULATION NOW LOCATED IN ROOF.

INTERIOR AND EXTERIOR EXPOSED CONCRETE BLOCK WALLS: PATCH, PRIME, AND PAINT WALLS AS REQ'D, INCLUDING WHERE DOORS/WINDOWS ARE PUT IN. (1 COAT PRIME AND 1 COAT PAINT; PATCH AREAS AND 1 COAT PAINT ENTIRE WALL FINAL COMPLETE COAT - TYPICAL ON WALLS AFFECTED BY NEW WORK.)

PROTECT FINISH FLOOR AND TRIM AS REQ'D DURING CONSTRUCTION.

CONCRETE SLAB

ATTACH CEMENT BOARD TO BE FLUSH WITH BACK SIDE OF CAST STONE CAP TO SUPPORT FLASHING SHEETS AS REQ'D.

REFER TO STRUCTURAL. REMOVE CAST STONE CAP AND (2) ROWS OF CAST STONE BLOCKS AS REQ'D TO INSTALL REINFORCING. REINSTALL IN SEQUENCE.

BREAK CMU FACE SHELLS AS REQ'D TO INSERT REINFORCING.

EXISTING CONCRETE TIE BEAM

TOP OF TIE BEAM AND CAST STONE LEDGE +16' - 0"

TOP OF TIE BEAM IN MAIN BUILDING +15' - 4"

TOP OF TIE BEAM IN KITCHEN +14' - 0"

TOP OF ROOF AT L.P. +12' - 8"

REFER TO STRUCTURAL. PROVIDE REINFORCING BARS.

CONC. FILLED U BLOCK WITH 1 - #5 CONT.

REFER TO STRUCTURAL. LOWER REINFORCING SHALL BE OFFSET ONE CELL ±8" FROM UPPER REINFORCING TO PREVENT BREAKAGE.

REFER TO STRUCTURAL. BREAK FACE SHELLS AS REQ'D TO INSERT REINFORCING.

BRICK VENEER

1" RIGID POLYSTYRENE INSULATION

CMU BLOCK WALL

REFER TO STRUCTURAL. CONCRETE BLOCK STONEMASS MAY BE GROUTED SOLID. THEREFORE, DRILL INTO STONEMASS OR OTHERWISE DROP-IN REINFORCING TO TOP OF FOOTING AS REQ'D.

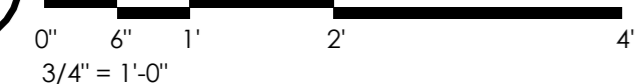
BACKFILL COMPACT AS REQ'D.

APPROX. FINISH GRADE

FIRST FLOOR +0' - 0"

REFER TO STRUCTURAL. CAREFULLY REMOVE BRICK VENEER AS REQ'D TO INSTALL REINFORCING STEEL AT TOP OF FOOTINGS, TYP.

1 HIGH POINT OF ROOF - WALL SECTION



REMOVE AND PROPERLY DISPOSE OF EXISTING ROOFING MEMBRANE, METAL DRIP EDGE, CONT. WOOD NAILER, VPR ROOF VENTS, AND FESCO BOARD DOWN TO THE METAL DECK.

INSTALL NEW PROTECTION BOARD, RIGID AND TAPERED INSULATION (R-25 C.I. MIN.), COVER BOARD, AND NEW MODIFIED BITUMEN MEMBRANE ROOFING IN SEQUENCE WITH NEW CONSTRUCTION. REFLASH ALL CURBS AND EQUIPMENT, TYP. REFER TO STRUCTURAL AND MEP DRAWINGS.

EXTEND COVERBOARD AND RIGID INSULATION AS REQUIRED TO ACHIEVE 1/4" / 12" SLOPE OVER STAGGERED PLATES

PROVIDE ONE TO FOUR 2X8 P.T. WOOD PLATES, STAGGER AS REQUIRED. FASTEN TO EXISTING CONCRETE TIE BEAM. REFER TO STRUCTURAL FOR FASTENING.

TOP OF TIE BEAM AND CAST STONE LEDGE +16' - 0"

FLASHING AND COUNTERFLASHING AS REQUIRED

TOP OF TIE BEAM IN MAIN BUILDING +15' - 4"

2X10 OVER 2X12 SLOPING FASCIA (PRIME AND PAINT) SECURE AS REQUIRED

REFER TO STRUCTURAL. BREAK FACE SHELLS AS REQ'D TO INSERT REINFORCING.

TOP OF TIE BEAM IN KITCHEN +14' - 0"

TOP OF ROOF AT L.P. +12' - 8"

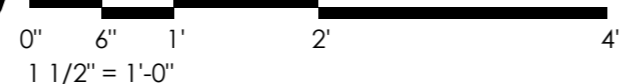
NOTE: ACCORDING TO ORIGINAL DRAWINGS, AT EXTERIOR WALLS NOT HAVING BRICK FACING, CELLS ARE FILLED WITH VERMICULITE.

ACCORDING TO THE EPA, BUILDINGS WITH VERMICULITE PRIOR TO 1990 MAY BE CONTAMINATED WITH ASBESTOS. CONTRACTOR TO TAKE PRECAUTIONS AND DISPOSE ACCORDINGLY WHEN WORKING WITH CELLS CONTAINING VERMICULITE.

R-30 INSULATION NOT REQ'D TO BE REPLACED OR RETURNED IN CEILING. INSULATION NOW LOCATED IN ROOF.

2X4 ACOUSTIC CEILING TILE

2 PARAPET VARIES - ROOF SECTION



REMOVE AND PROPERLY DISPOSE OF EXISTING ROOFING MEMBRANE, FLASHING, CAP FLASHING, CANT STRIPS, PARAPET COPINGS FLASHING, VPR ROOFING VENTS, AND FESCO BOARD DOWN TO THE METAL DECK. CONTRACTOR TO PROTECT INTERIOR SPACES FROM INCLEMENT WEATHER/WATER.

INSTALL NEW PROTECTION BOARD, RIGID AND TAPERED INSULATION (R-25 C.I. MIN.), COVER BOARD, AND NEW MODIFIED BITUMEN MEMBRANE ROOFING IN SEQUENCE WITH NEW CONSTRUCTION. REFLASH ALL CURBS AND EQUIPMENT, TYP. REFER TO STRUCTURAL AND MEP DRAWINGS.

ATTACH CEMENT BOARD TO BE FLUSH WITH BACK SIDE OF CAST STONE CAP TO SUPPORT FLASHING SHEETS AS REQ'D.

BREAK FACE SHELLS AS REQ'D TO INSERT REINFORCING.

TOP OF CAST STONE +18' - 0"

REFER TO STRUCTURAL. REMOVE CAST STONE CAP AS REQ'D TO INSTALL REINFORCING. REINSTALL IN SEQUENCE.

TOP OF TIE BEAM AND CAST STONE LEDGE +16' - 0"

TOP OF TIE BEAM IN MAIN BUILDING +15' - 4"

TOP OF TIE BEAM IN KITCHEN +14' - 0"

REFER TO STRUCTURAL. BREAK FACE SHELLS AS REQ'D TO INSERT REINFORCING.

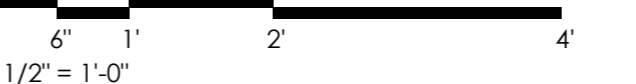
TOP OF ROOF AT L.P. +12' - 8"

BRICK VENEER

1" RIGID POLYSTYRENE INSULATION

CMU BLOCK WALL

3 LOW POINT - ROOF SECTION



BID SET

STAMP:

CLIENT:
201 N 2ND STREET
PALATKA, FL 32177



Passero Associates

4730 CASA COIA WAY, SUITE 200 (904) 757-6106
ST. AUGUSTINE, FL 32095

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WALL AND ROOF SECTIONS

**CITY OF PALATKA
PRICE-MARTIN
COMMUNITY CENTER**

Price-Martin Facility Hardening
TOWN/CITY: PALATKA
COUNTY: PUTNAM STATE: FL

PROJECT NO.:
20213160.0006

DRAWING NO.:
A-310

DATE:
JANUARY 14, 2025

City of Palatka
201 N. 2nd St
Palatka, FL 32177

1/22/2025

Re: Price-Martin Facility

To Whom It May Concern:

Johns Manville (a Berkshire Hathaway Company) has been a Roofing Systems solution provider for over 160 years and we take pride in the systems and products that we offer to the market.

We are submitting a pre-bid system approval request for roofing materials tailored to the above referenced project. At Johns Manville, we realize your time is valuable and sincerely thank you for taking the time to review our submission.

Addressing Product Offering

- Johns Manville is proposing the following SBS roofing system that meets the criteria and intention of the specified roofing assembly:
- The roof assembly shall be composed of the following JM components:
 - Cap Ply: DynaWeld Cap 180 FR, torch applied
 - Base Ply: DynaWeld 180 S, torch applied
 - Cover Board: DensDeck Prime Roof Board, fastened with UltraFast Fasteners and Plates
 - Insulation: ENRGY 3, preliminary attachment
 - Deck: steel
 - Flashings: DynaWeld Cap 180 FR, DynaWeld 180 S
 - Wind uplift and coverage riders meet the requirements outlined in the specification
 - FL 17013-R24
 - S-AM-59
- This assembly will be eligible for a 20 year No Dollar Limit Johns Manville Peak Advantage® Guarantee once a Johns Manville Technical Representative inspects and approves the installed JM roofing system.

Company Stability

In 2001, Johns Manville was acquired by Berkshire Hathaway, providing additional financial strength coupled with the highest level of integrity and leadership. This provides the financial stability to weather economic storms and allows JM to continue to be a leader in the roofing industry you can continue to count on.

Johns Manville Specifier Services

Johns Manville offers a number of resources for specification services to accurately assess and develop the proper roofing assembly including system selection, technical assistance, and specification review.

We look forward to your favorable review and approval of this substitution request. If you should have any further questions, please do not hesitate to contact me at 303-978-2159.

Best Regards,

Dustin Rommel

Specifier Services Representative, Johns Manville

Cc: Matt Fox, Johns Manville

Att: Product Comparison Table
Data Sheets
Sample Warranty

SBS Physical Property Comparison

SBS Physical Property Comparison																																		
Product data taken from manufacture's website January		Use			Application Method			Cool Roofing Solutions (Initial)			Cool Roofing Solutions (3 Year Aged)			Weight	Reinforcement			Size		Thickness	Tensile Strength @ 0°		Tear Strength		Elongation @ 0°F		Elongation @ 73°F		Low Temp. Flexibility					
Manufacturer	ASTM Standard/Product Name	Base	Cap	Interply	Flashing	Hot Asphalt	Cold Adhesive	Torch	Self Adhered	Mechanically Attached	Reflectivity (%) (ASTM C 1549)	Emissivity (ASTM C 1371)	Solar Reflectance Index - SRI	Reflectivity (%) (ASTM C 1549)	Emissivity (ASTM C 1371)	Solar Reflectance Index - SRI	Weight in lbs. (kgs)	Composite	Fiberglass	Polyester	Glass	Glass Grid	Size in squares (square meters)	mils (mm)	Machine Direction lb/in	Cross Machine Direction lb/in	Machine Direction lb/in	Cross Machine Direction lb/in	Machine Direction	Cross Machine Direction	Machine Direction	Cross Machine Direction	Fahrenheit	
ASTM D 6164 Type I, Grade S																																		
Johns Manville	DynaWeld 180 S																86(39)							.958(8.9)	118 (3.0)	110	90	125	90	35.0%	40.0%	55.0%	60.0%	-20
Soprema	Sopralene Flam 180																81 (36.7)							.979 (9.1)	118 (3.0)	115	90	125	85	35.0%	40.0%	55.0%	60.0%	-15
ASTM D 6164 Type I, Grade G																																		
Johns Manville	DynaWeld Cap 180 FR										.26	0.87	25	.27	.84	25	105(47.6)							.958(8.9)	157 (4.0)	110	90	125	90	35.0%	40.0%	55.0%	60.0%	-10
Soprema	Sopralene Flam 180 FR GR SG										0.66	0.91	81	0.62	0.91	75	118 (53.5)							.979 (9.1)	157 (4.0)	115	90	125	85	35.0%	40.0%	55.0%	60.0%	-15

Meets the requirements of ASTM D 6164, Type I, Grade G

Features and Components

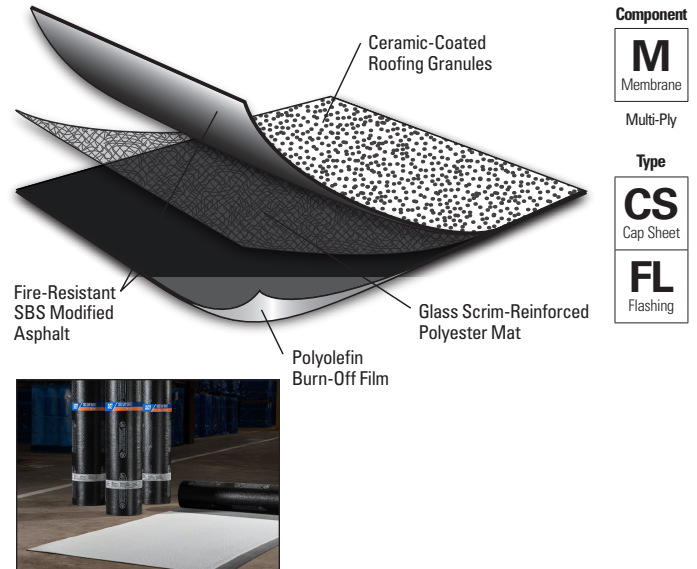
DynaWeld Cap 180 FR is used as a polyester-reinforced mineral-surfaced cap or flashing sheet in a variety of multi-ply roofing systems.

Ceramic-Coated Roofing Granules: Specifically engineered for optimal embedment in the SBS-blend sheet. The ceramic coating promotes excellent long-term adhesion.

High-Quality SBS Rubber and Asphalt Blend: Lends elasticity and flexibility to the sheet. The elongation and recovery properties allow the product to easily accommodate the continual expansion and contraction experienced on all roofs. The FR blend contains additional fire-retardant additives.

Polyester Reinforcement Mat: Polyester mat with glass-scrim reinforcement offers robust tear strength and puncture resistance, allowing for high wind performance and an excellent hail rating. The sheet also exhibits strong dimensional stability and enhanced elongation.

Polyolefin Burn-Off Film: Promotes ease of heat welding.



Component
M Membrane
Multi-Ply
Type
CS Cap Sheet
FL Flashing

Colors: White, Black, Tan & Brown
(Black and Tan may require extended lead times.)

System Compatibility This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.

Multi-Ply	BUR		APP		SBS				
	HA	CA	HW	HA	CA	HW	SA	MF	
Compatible with the selected multi-ply systems above									

Single Ply	TPO				PVC			EPDM		
	MF	AD	SA	IW	MF	AD	IW	MF	AD	BA
Compatible with the selected single ply systems above										

Key: HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened IW = Induction Weld BA = Ballasted AD = Adhered

Energy and the Environment

Test	Initial	3-Year Aged
Reflectivity* (ASTM C 1549)	0.28	0.25
Emissivity* (ASTM C 1371)	0.89	0.92
Solar Reflectance Index* (SRI) - E 1980	29	26
Pre-Consumer Recycled Content	0%	
Post-Consumer Recycled Content	0%	

*Standard White Granule only

Peak Advantage® Guarantee Information

Systems	Guarantee Term
When used in most 2-5 ply JM SBS systems.*	Up to 30 years

*Contact JM Technical Services for specific system requirements or guarantee terms.

Codes and Approvals



Product Application



Heat Weld

- Must be installed using heat-welding techniques
- Refer to JM SBS modified bitumen specifications and detail drawings for application and slope information

Packaging and Dimensions

Roll Coverage*	95.8 ft ² (8.9 m ²)
Roll Length	32' 10" (10 m)
Roll Width	39 3/8" (1 m)
Roll Weight	105 lb (47.6 kg)
Rolls per Pallet	20
Pallet Weight	2,230 lb (1,012 kg)
Pallets per Truck**	22
Producing Locations	South Gate, CA Macon, GA Plattsburgh, NY

*Assumes a 4" side lap **Assumes 48' flatbed truck.

Meets the requirements of ASTM D 6164, Type I, Grade G

Tested Physical Properties

Physical Properties		ASTM Test Method	Standard for ASTM D 6164, Type I, Grade G (Min.)	DynaWeld Cap 180 FR	
				MD*	XMD**
Strength	Tensile Tear	D 5147	55 lbf (245 N)	125 lbf (556 N)	90 lbf (400 N)
	Peak Load at 0°F (-18°C)	D 5147	70 lbf/in (12.3 kN/m)	110 lbf/in (19.3 kN/m)	90 lbf/in (15.8 kN/m)
	Peak Load at 77°F (23°C)	D 5147	50 lbf/in (8.8 kN/m)	80 lbf/in (14.0 kN/m)	60 lbf/in (10.5 kN/m)
Longevity	Low Temp. Flexibility	Unconditioned	D 5147	0°F (-18°C)	-10°F (-23°C)
		90-Day Heat Conditioned	D 5147	0°F (-18°C)	-10°F (-23°C)
	Compound Stability	D 5147	215°F (102°C)	250°F (121°C)	
	Granule Loss	D 4977	2 g (0.07 oz)	0.7 g (0.02 oz)	
	Thickness	D 5147	130 mil (3.3 mm)	157 mil (4.0 mm)	
	Selvage Edge Thickness	D 5147	N/A	110 mil (2.8 mm)	
	Elongation at Peak Load at 0°F (-18°C)	D 5147	20%	35%	40%
	Elongation at Peak Load at 73.4°F (23°C)	D 5147	35%	55%	60%
	Ultimate Elongation at 77°F	D 5147	38%	70%	80%
Aged Performance	90-Day Heat-Conditioned Peak Load at 0°F (-18°C)	D 5147	70 lbf/in (12.3 kN/m)	110 lbf/in (19.3 kN/m)	90 lbf/in (15.8 kN/m)
	90-Day Heat-Conditioned Elongation at Peak Load at 0°F (-18°C)	D 5147	20%	25%	25%
	90-Day Heat-Conditioned Peak Load at 73.4°F (23°C)	D 5147	50 lbf/in (8.8 kN/m)	85 lbf/in (14.9 kN/m)	65 lbf/in (11.4 kN/m)
	90-Day Heat-Conditioned Elongation at Peak Load at 73.4°F (23°C)	D 5147	35%	35%	45%
	90-Day Heat-Conditioned Ultimate Elongation at 73.4°F (23°C)	D 5147	38%	45%	45%
Installation	Dimensional Stability	D 5147	1.0%	0.2%	0.1%
	Net Mass per Unit Area	D 146	75 lb/100 ft ² (34 kg/9.29 m ²)	100 lb/100 ft ² (45.4 kg/9.29 m ²)	
	Roll Weight	D 146	N/A	105 lb (47.6 kg)	

*MD = Machine Direction

**XMD = Cross-Machine Direction

Note: Material tested in accordance with ASTM D 5147 Standard Test Methods for Sampling and Testing Modified Bituminous Sheet Materials.

Supplemental Testing

Physical Properties		ASTM Test Method	DynaWeld Cap 180 FR Result
Cyclic Joint Displacement	Initial	D 5849	Pass at 500 cycles*
	After 90-Day Heat Conditioning per ASTM D 5147	D 5849	Pass at 200 cycles*
Coefficient of Friction	Static	D 1894	1.32
	Kinetic	D 1894	0.89

*In a min 2-ply system when adhered with any combination of cold applied, hot applied and or heat-weld that is approved by JM for application.

Meets the requirements of ASTM D 6164, Type I, Grade S

Features and Components

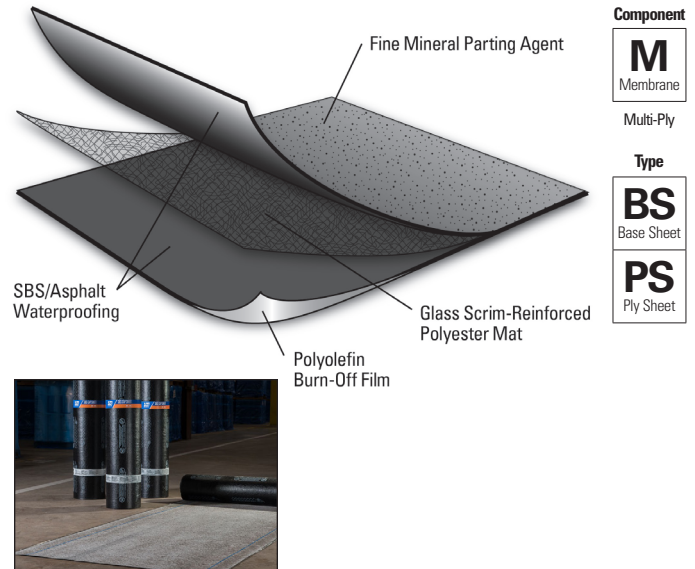
DynaWeld 180 S is used as a polyester-reinforced base or ply sheet in a variety of multi-ply roofing systems.

Fine Mineral Parting Agent: Nonblocking surface for use as a base sheet or ply sheet.

High-Quality SBS Rubber and Asphalt Blend: Lends elasticity and flexibility to the sheet. The elongation and recovery properties allow the product to easily accommodate the continual expansion and contraction experienced on all roofs.

Polyester Reinforcement Mat: Polyester mat with bidirectional glass-scrim reinforcement offers robust tear strength and puncture resistance, allowing for high wind performance and an excellent hail rating. The sheet also exhibits strong dimensional stability and enhanced elongation.

Surfacing: Fine mineral parting agent on the top side of the sheet. A polyolefin burn-off film on the bottom side enables the product to be applied using heat welding techniques.



System Compatibility *This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.*

Multi-Ply	BUR		APP		SBS				
	HA	CA	HW	HA	CA	HW	SA	MF	
Compatible with all multi-ply systems									

Single Ply	TPO				PVC			EPDM		
	MF	AD	SA	IW	MF	AD	IW	MF	AD	BA
Compatible with the selected single ply systems above										

Key: HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened IW = Induction Weld BA = Ballasted AD = Adhered

Energy and the Environment

Pre-Consumer Recycled Content	0%
Post-Consumer Recycled Content	0%

Peak Advantage® Guarantee Information

Systems	Guarantee Term
When used in most 2-5 ply JM SBS systems.*	Up to 30 years

*Contact JM Technical Services for specific system requirements or guarantee terms.

Codes and Approvals



Product Application



Heat Weld

- May be used as a backer-ply in two-ply flashing systems
- Must be installed using heat-welding techniques
- Refer to JM SBS modified bitumen specifications and detail drawings for application and slope information

Packaging and Dimensions

Roll Coverage*	95.8 ft ² (8.9 m ²)
Roll Length	32' 10" (10 m)
Roll Width	39 3/8" (1 m)
Roll Weight	86 lb (39 kg)
Rolls per Pallet	20
Pallet Weight	1,900 lb (862 kg)
Pallets per Truck**	22
Producing Location	Macon, South Gate, Plattsburgh

*Assumes a 4" side lap **Assumes 48' flatbed truck.

Meets the requirements of ASTM D 6164, Type I, Grade S

Tested Physical Properties

Physical Properties		ASTM Test Method	Standard for ASTM D 6164, Type I, Grade S (Min.)	DynaWeld 180 S	
				MD*	XMD**
Strength	Tensile Tear	D 5147	55 lbf (245 N)	125 lbf (556 N)	90 lbf (400 N)
	Peak Load at 0°F (-18°C)	D 5147	70 lbf/in (12.3 kN/m)	110 lbf/in (19.3 kN/m)	90 lbf/in (15.8 kN/m)
	Peak Load at 73.4°F (23°C)	D 5147	50 lbf/in (8.8 kN/m)	80 lbf/in (14.0 kN/m)	60 lbf/in (10.5 kN/m)
Longevity	Low Temp. Flexibility	Unconditioned	0°F (-18°C)	-20°F (-29°C)	
		90-Day Heat Conditioned	0°F (-18°C)	-20°F (-29°C)	
	Compound Stability	D 5147	215°F (102°C)	250°F (121°C)	
	Thickness	D 5147	85 mil. (2.2 mm)	118 mil (3.0 mm)	
	Elongation at Peak Load at 0°F (-18°C)	D 5147	20%	35%	40%
	Elongation at Peak Load at 73.4°F (23°C)	D 5147	35%	55%	60%
	Ultimate Elongation at 73.4°F (23°C)	D 5147	38%	70%	80%
Aged Performance	90-Day Heat-Conditioned Peak Load at 0°F (-18°C)	D 5147	70 lbf/in (12.3 kN/m)	110 lbf/in (19.3 kN/m)	80 lbf/in (14.0 kN/m)
	90-Day Heat-Conditioned Elongation at Peak Load at 0°F (-18°C)	D 5147	20%	25%	25%
	90-Day Heat-Conditioned Peak Load at 73.4°F (23°C)	D 5147	50 lbf/in (8.8 kN/m)	85 lbf/in (14.9 kN/m)	65 lbf/in (11.4 kN/m)
	90-Day Heat-Conditioned Elongation at Peak Load at 73.4°F (23°C)	D 5147	35%	35%	45%
	90-Day Heat-Conditioned Ultimate Elongation at 73.4°F (23°C)	D 5147	38%	45%	45%
Installation	Dimensional Stability	D 5147	1.0%	0.2%	0.1%
	Net Mass per Unit Area	D 146	54 lb/100 ft ² (24 kg/9.29 m ²)	80 lb/100 ft ² (36 kg/9.29 m ²)	
	Roll Weight	D 146	N/A	86 lb (39 kg)	

*MD = Machine Direction

**XMD = Cross-Machine Direction

Note: All data represents tested values.

Supplemental Testing

Physical Properties		ASTM Test Method	DynaWeld 180 S Result
Cyclic Joint Displacement	Initial	D 5849	Pass at 500 cycles*
	After 90-Day Heat Conditioning per ASTM D 5147	D 5849	Pass at 200 cycles*
	After 180-Day Heat Conditioning per ASTM D 5147	D 5849	Pass at 200 cycles**

*In a min 2-ply system when adhered with any combination of cold applied, hot applied and or heat-weld that is approved by JM for application.

**When heat welded to DynaWeld Cap FR or DynaWeld Cap FR CR.

Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The Safety Data Sheet is available by calling (800) 922-5922 or on the web at www.jm.com/roofing. The physical and chemical properties of the product listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check with the regional sales representative nearest you for current information.

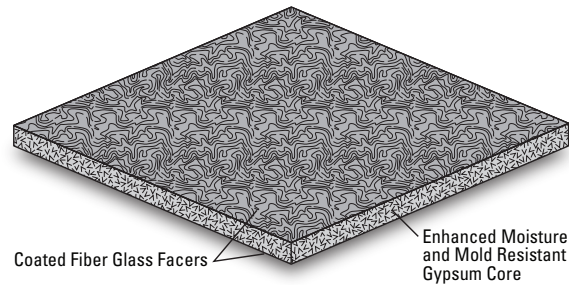
All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville roofing products and systems, visit www.jm.com/terms-conditions.

Meets the requirements of ASTM C 1177

Features and Components

Enhanced Face Mat: Coated fiberglass facer ideal for fully adhered systems provides a broader compatibility and higher performance with roofing adhesives.

Fire Performance: FM Class 1 for fire barrier requirements and UL Class A unlimited slope with excellent surface burning characteristics. 5/8" thickness meets the requirements of Type X per ASTM C 1177.



Component

B
Cover Board

Multi-Ply
Single Ply

Type

GY
Gypsum

LT
Low Thermal

System Compatibility This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.

Multi-Ply	BUR		APP		SBS			
	HA	CA	CA	HW	HA	CA	HW	SA
Compatible with all Multi-Ply systems								

Single Ply	TPO		PVC		EPDM		
	MF	FA	MF	FA	MF	FA	BA
Compatible with the selected Single Ply systems above							

Key: HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened FA = Fully Adhered BA = Ballasted

Peak Advantage® Guarantee Information

Systems	Guarantee Term*
When used in most multi-ply and single ply systems	10, 15, or 20 years

* Contact JM Technical Services for specific systems or terms over 20 years.

Codes and Approvals



Installation/Application



Cold Applied



Urethane Adhesive



Mechanically Fastened

Refer to the Application Guides and Detail Drawings for instructions.

Packaging and Dimensions

Size	4' x 4' (1.22 m x 1.22 m)		
Thickness, nom	¼" (6.4 mm)	½" (12.7 mm)	¾" (15.9mm)
Weight/Board, nom	19 lb (8.6 kg)	32 lb (14.5 kg)	40 lb (18.2 kg)
Coverage/Pallet	960 ft² (89 m²)	800 ft² (74 m²)	640 ft² (59 m²)
Boards/Pallet	60	50	40
Pallet Weight	1,140 lb (517 kg)	1,600 lb (726 kg)	1,600 (726 kg)
Pallets per Truck*	40	29	27
Size	4' x 8' (1.22 m x 2.44 m)		
Thickness, nom	¼" (6.4 mm)	½" (12.7 mm)	¾" (15.9 mm)
Weight/Board, nom	38 lb (17.2 kg)	64 lb (29.0 kg)	80 lb (36.3 kg)
Coverage/Pallet	1,344 ft² (125 m²)	960 ft² (89 m²)	960 ft² (89 m²)
Boards/Pallet	42	30	30
Pallet Weight	1,596 lb (724 kg)	1,920 lb (871 kg)	2,400 lb (1089 kg)
Pallets per Truck*	28	24	18

* Assumes 48' flatbed truck. Number of units per truck may vary per shipping location and can be verified at time of order placement.

DensDeck® is registered trademark of Georgia-Pacific Gypsum LLC. DensDeck® is manufactured by Georgia-Pacific Gypsum LLC.



DensDeck® Prime Roof Board

Enhanced Coated Glass Mat Faced Gypsum Cover Board

Meets the requirements of ASTM C 1177

Typical Physical Properties

Test	ASTM	DensDeck Prime Roof Board			
		¼" (6.4 mm)	½" (12.7 mm)	⅝" (15.9 mm)	
Strength	Compressive Strength, psi (kPa), <i>nom</i>	C 473	900 (6,205)		
	Flexural Strength, lb, parallel, <i>min</i>	C 473	40	80	100
	Bending Radius, ft (m), <i>max</i>	NA	4 (1.2)	6 (1.8)	8 (2.4)
Moisture	Moisture Vapor Permeance, perms (ng/(Pa•s•m²), <i>min</i>	E 96	30 (1,710)	23 (1,300)	17 (970)
	Water Absorption, % by wt, <i>max</i>	C 1177	5		
	Surface Water Absorption, grams, <i>nom</i>	C 473 method B	1		
	Mold Resistance	D 3273	10		
Installation	Flute Span, in (cm), <i>max</i>	E 661	2 ⅝ (6.7)	5 (12.7)	8 (20.3)
	Weight, lb/ft² (kg/m²), <i>nom</i>	NA	1.2 (5.9)	2.0 (9.8)	2.5 (12.2)

Thermal Performance

Thickness	Nominal R-Value (Resistance)		
	in.	mm	(hr•ft²•°F)/BTU
¼	6.4	0.28	0.049
½	12.7	0.56	0.099
⅝	15.9	0.67	0.118

Test	ASTM	DensDeck Prime Roof Board
Flame Spread	E 84	0
Smoke Developed	E 84	0

Non combustible in accordance with ASTM E 136

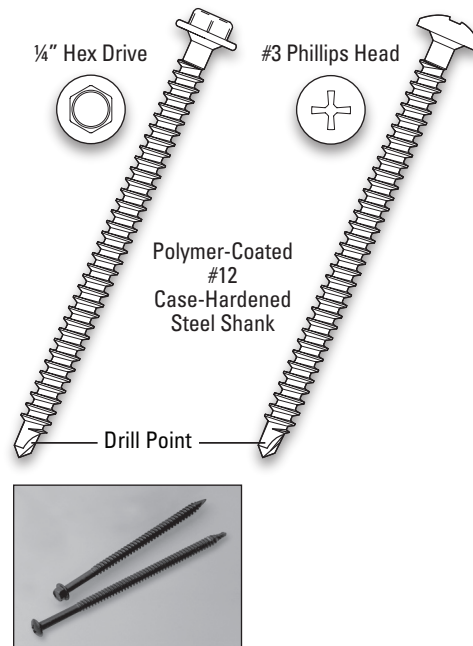
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Features and Components

The UltraFast Fastener is a #12, case-hardened steel, polymer-coated fastener with a buttress thread design that provides maximum pullout values and minimizes fastener backout. Available with either a #3 Phillips head or a ¼" (6.35 mm) hex head. The drill point is designed for quick installation in new or re-roof applications, and provides exceptional drilling capability in higher tensile decks.

- Use:** Insulation
- Material:** Fasteners - Case-Hardened Steel, Polymer-Coated
- Gauge:** #12
- Head:** #3 Phillips Head or ¼" (6.35 mm) Hex Head
- Color:** Blue
- Deck Types:** Wood or 18 - 24 gauge (1.25 mm - 0.51 mm) Metal
- Coating:** CR-10 corrosion resistant factory applied coating passes the corrosion requirements of FM 4470 and ETAG 006



Component
F Fastening
Type
I Insulation
Multi-Ply Single Ply

System Compatibility This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.

Multi-Ply	BUR		APP		SBS				
	HA	CA	HW	HA	CA	HW	SA	MF	
<i>Use to fasten insulation in all multi-ply systems</i>									

Single Ply	TPO				PVC			EPDM		
	MF	AD	SA	IW	MF	AD	IW	MF	AD	BA
<i>Use to fasten insulation in the selected single ply systems above</i>										

Key: HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened IW = Induction Weld BA = Ballasted AD = Adhered

Energy and the Environment

Recycled Content	This steel based product contains a minimum of 25% post consumer recycled materials by weight
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Peak Advantage® Guarantee Information

Systems	Approved to use with any Peak Advantage Guarantee
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Codes and Approvals*



*Fastener approvals are based on system approvals

Installation/Application

Refer to the application instructions guidelines for proper utilization of this product.

Packaging and Dimensions

Fastener Sizes	Quantity/Container
1½" to 8" (4.13 cm to 20.32 cm) (1) #3 Phillips bit in each pail (1) ¼" (6.35 mm) hex head bit per 3 pails	1,000/pail
Producing Locations*	Agawam, MA and Itasca, IL

*The point of manufacture for fasteners and plates varies depending on the specific part. Call your local JM sales professional for assistance.

Features and Components

UltraFast Locking Plastic Plates are 3" (7.62 cm) round, high strength polypropylene plates with a special locking feature.

UltraFast Metal Plates are 3" (7.62 mm) round or square, premium Galvalume®*-coated steel metal plates.

Use: Insulation

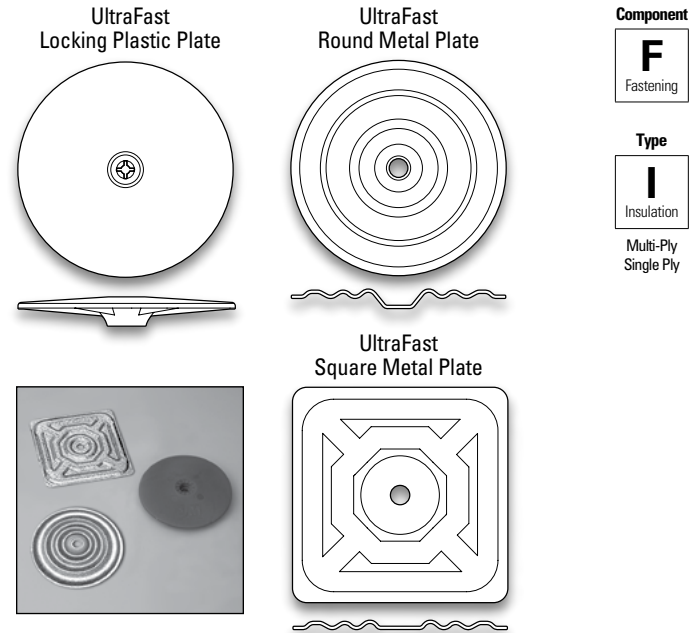
Material: Plates - Galvalume-Coated Steel or High Strength Polypropylene

Gauge: 26 Gauge Steel

Plates: 3" (7.62 cm) Round Locking Plastic & Round or Square Metal

Colors: Grey (metal plates), Blue (plastic plates)

* Galvalume is a registered trademark of BIEC International, Inc. and some of its licensed producers.



System Compatibility *This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.*

Multi-Ply	BUR		APP		SBS				
	HA	CA	CA	HW	HA	CA	HW	CA	MF
Use to fasten Insulation in all Multi-Ply systems									

Single Ply	TPO		PVC		EPDM		
	MF	FA	MF	FA	MF	FA	BA
Use to fasten Insulation in the selected Single Ply systems above							

Key: HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened FA = Fully Adhered BA = Ballasted

Energy and the Environment

Recycled Content	This steel based product contains a minimum of 25% post consumer recycled materials by weight
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Peak Advantage® Guarantee Information

Systems	Approved to use with any Peak Advantage Guarantee
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Codes and Approvals*



*Fastener approvals are based on system approvals

Installation/Application

Refer to the application instructions guidelines for proper utilization of this product.

Packaging and Dimensions

Plate Sizes	Quantity/Container
3" Metal Round or Square, 1,000/pail 3" Plastic Round, 1,000/pail	1,000/pail
Producing Locations*	Agawam, MA and Itasca, IL

* The point of manufacture for fasteners and plates varies depending on the specific part. Call your local JM sales professional for assistance.

Meets the requirements of **ASTM C 1289, Type II, Class 1, Grade 2 (20 psi)**

- ENRGY 3 / Tapered ENRGY 3

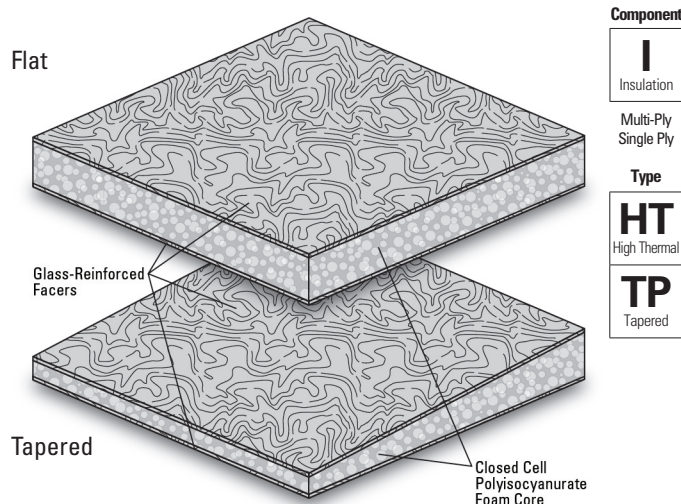
Grade 3 (25 psi)

- ENRGY 3 25 PSI / Tapered ENRGY 3 25 PSI

Features and Components

Glass-Reinforced Facers: Provides rigidity and resistance to indentation and crushing, and are compatible with BUR, modified bitumen and single ply membrane systems.

Closed Cell Polyisocyanurate Foam Core: Provides high R-value per inch in built-up, modified bitumen, metal roof and single ply roof systems, and approved for direct application to steel decks.



System Compatibility This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.

Multi-Ply	BUR		APP			SBS			
	HA	CA	HW	HA	CA	HW	SA	MF	
Compatible with the selected Multi-Ply systems above									

Single Ply	TPO				PVC			EPDM		
	MF	AD	SA	IW	MF	AD	IW	MF	AD	BA
Compatible with all Single Ply systems										

Key: HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened IW = Induction Weld BA = Ballasted AD = Adhered

Energy and the Environment

LEED®	Recycled Content	Varies with thickness, see <i>Product Data and Packaging</i> table on next page.
Produced with a pentane blowing agent with zero ozone depletion and virtually no global warming potential.		

Peak Advantage® Guarantee Information

Systems
For use in approved JM Peak Advantage Roofing Guarantees

Codes and Approvals



- FM® Standards 4450/4470 Approvals (refer to FM RoofNavSM)
- UL® Standard 790, 263 and 1256 (refer to UL Roofing Materials system directory)
- Meets the requirements of CAN/ULC S704, Type 2 & 3, Class 3
- California Code of Regulations, Title 24, Insulation Quality Standard License #TI-1341
- Third-party certification with the PIMA Quality Mark™ for Long-Term Thermal Resistance (LTR) values

Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The Safety Data Sheet is available by calling (800) 922-5922 or on the web at www.jm.com/roofing. The physical and chemical properties of the product listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check with the regional sales representative nearest you for current information.

Installation/Application



Refer to the application instructions guidelines for proper utilization of this product.

Flute Span:			
Width of Rib Opening:	Up to 2 ⁵ / ₈ " (6.67 cm)	Up to 3 ³ / ₈ " (8.57 cm)	Up to 4 ³ / ₈ " (11.11 cm)
Insulation Thickness (min):	1.0" (2.54 cm)	1.2" (3.05 cm)	≥1.3" (3.30 cm)

Packaging and Dimensions

Flat Sizes ¹	4' x 4' (1.22 m x 1.22 m)	4' x 8' (1.22 m x 2.44 m)	
Tapered Size ²	4' x 4' (1.22 m x 1.22 m)		
Producing Locations	Bremen, IN Hazleton, PA	Cornwall, ONT Jacksonville, FL	Fernley, NV Hillsboro, TX

1. For available thicknesses, see *Product Data and Packaging* table on page 2 of this data sheet. Other sizes available by special request, some sizes are not stocked but can be special ordered with minimum order quantities. Contact your JM Sales Representative for details.
2. Tapered ENRGY 3 and Tapered ENRGY 3 25 PSI are available in thicknesses of 1/2" to 4". Available profiles are shown on page 3 of this data sheet. In some regions extended panels are also available.

Typical Physical Properties

Test		ASTM	Values
Strength	Tensile Strength	C 209	500 psf (24 kPa) (<i>min</i>), 730 psf (35 kPa) (<i>nom</i>)
	Compressive Resistance 10% Consolidation	D 1621	Grade 2: 20 psi (138 kPa), Grade 3: 25 psi (172 kPa) (<i>min</i>)
	Dimensional Stability Change, (<i>length & width</i>)	D 2126	0.5% (<i>nom</i>), 2% (<i>max</i>)
Moisture	Moisture Vapor Permeance	E 96	<1 perm, 57.5 ng/(Pa•s•m ²)
	Water Absorption	C 209	1.0% (<i>max</i>)
Insulation	Service Temperature	D 1623	-100°F – 250°F (-73°C – 121°C)
	Flame Spread, (<i>foam core</i>)	E 84	20 - 30 (<i>nom</i>), 75 (<i>max</i>)
	Smoke Developed, (<i>foam core</i>)	E 84	55 - 250 (<i>nom</i>), 450 (<i>max</i>)

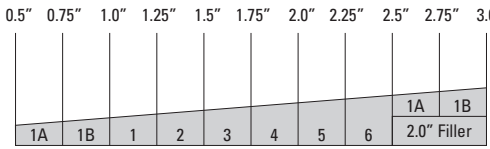
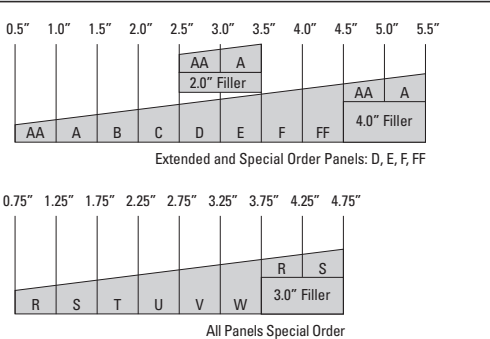

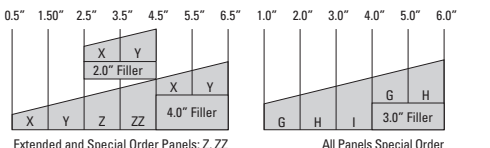

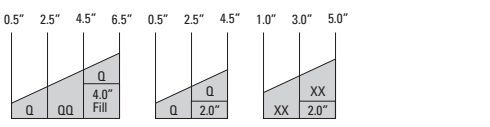
Product Data and Packaging

Thickness		Long-Term Thermal Resistance (LTTR) Values ¹		Recycled Content ² 20 PSI / 25 PSI			Boards per Pallet	Square Feet per Pallet		Pallets per Truck ³	
in.	mm	(hr•ft ² •°F)/BTU	m ² •°C/W	% Pre-Consumer	% Post-Consumer	% Total	4x4 and 4x8	4x4	4x8	4x4	4x8
1.0	25.4	5.7	1.00	5.3 / 5.2	31.8 / 29.9	37.1 / 35.1	48	768	1536	48	24
1.1	27.9	6.3	1.10	5.2 / 5.2	30.0 / 28.1	35.3 / 33.3	41	656	1312		
1.2	30.5	6.8	1.20	5.2 / 5.2	28.4 / 26.6	33.6 / 31.76	38	608	1216		
1.25	31.8	7.1	1.25	5.2 / 5.2	27.7 / 25.8	32.9 / 31.0	35	560	1120		
1.3	33.0	7.4	1.30	5.3 / 5.3	27.0 / 25.2	32.3 / 30.4	35	560	1120		
1.4	35.6	8.0	1.41	5.3 / 5.2	25.7 / 23.9	31.0 / 29.2	32	512	1024		
1.5	38.1	8.6	1.51	5.2 / 5.2	24.5 / 22.8	29.8 / 28.0	32	512	1024		
1.6	40.6	9.1	1.61	5.2 / 5.2	23.4 / 21.7	28.7 / 27.0	28	448	896		
1.7	43.2	9.7	1.71	5.2 / 5.2	22.4 / 20.8	27.7 / 26.0	27	432	864		
1.75	44.5	10.0	1.76	5.2 / 5.2	22.0 / 20.4	27.2 / 25.6	27	432	864		
1.8	45.7	10.3	1.81	5.2 / 5.2	21.5 / 19.9	26.7 / 25.1	25	400	800		
1.9	48.3	10.8	1.91	5.2 / 5.2	20.7 / 19.1	25.9 / 24.3	24	384	768		
2.0	50.8	11.4	2.01	5.2 / 5.2	19.9 / 18.4	25.1 / 23.6	24	384	768		
2.1	53.3	12.0	2.11	5.2 / 5.2	19.2 / 17.7	24.4 / 22.9	21	336	672		
2.2	55.9	12.6	2.22	5.2 / 5.2	18.5 / 17.1	23.7 / 22.3	21	336	672		
2.3	58.4	13.2	2.32	5.2 / 5.2	17.9 / 16.5	23.1 / 21.7	20	320	640		
2.4	61.0	13.8	2.43	5.2 / 5.2	17.3 / 16.0	22.5 / 21.1	19	304	608		
2.5	63.5	14.4	2.53	5.2 / 5.2	16.8 / 15.4	22.0 / 20.6	19	304	608		
2.6	66.0	15.0	2.64	5.2 / 5.1	16.3 / 15.0	21.4 / 20.1	18	288	576		
2.7	68.6	15.6	2.74	5.2 / 5.1	15.8 / 14.5	21.0 / 19.7	17	272	544		
2.8	71.1	16.2	2.85	5.2 / 5.1	15.3 / 14.1	20.5 / 19.2	16	256	512		
2.9	73.7	16.8	2.96	5.2 / 5.1	14.9 / 13.7	20.1 / 18.8	16	256	512		
3.0	76.2	17.4	3.06	5.2 / 5.1	14.5 / 13.3	19.7 / 18.4	16	256	512		
3.1	78.7	18.0	3.17	5.1 / 5.1	14.1 / 12.9	19.3 / 18.1	14	224	448		
3.2	81.3	18.6	3.28	5.1 / 5.1	13.8 / 12.6	18.9 / 17.7	14	224	448		
3.25	82.6	18.9	3.33	5.1 / 5.1	13.6 / 12.4	18.7 / 17.6	14	224	448		
3.3	83.8	19.2	3.39	5.1 / 5.1	13.4 / 12.3	18.6 / 17.4	14	224	448		
3.4	86.4	19.9	3.50	5.1 / 5.1	13.1 / 12.0	18.2 / 17.1	13	208	416		
3.5	88.9	20.5	3.61	5.1 / 5.1	12.8 / 11.7	17.9 / 16.8	13	208	416		
3.6	91.4	21.1	3.72	5.1 / 5.1	12.5 / 11.4	17.6 / 16.5	12	192	384		
3.7	94.0	21.7	3.82	5.1 / 5.1	12.2 / 11.1	17.3 / 16.3	12	192	384		
3.75	95.3	22.0	3.88	5.1 / 5.1	12.0 / 11.0	17.2 / 16.1	12	192	384		
3.8	96.5	22.3	3.94	5.1 / 5.1	11.9 / 10.9	17.0 / 16.0	12	192	384		
3.9	99.1	23.0	4.05	5.1 / 5.1	11.7 / 10.7	16.8 / 15.8	12	192	384		
4.0	101.6	23.6	4.16	5.1 / 5.1	11.4 / 10.4	16.5 / 15.5	12	192	384		
4.1	104.0	24.2	4.26	5.1 / 5.1	11.2 / 10.2	16.3 / 15.3	11	176	352		
4.2	107.0	24.9	4.39	5.1 / 5.1	10.9 / 10.0	16.0 / 15.1	11	176	352		
4.3	109.0	25.5	4.49	5.1 / 5.1	10.7 / 9.8	15.8 / 14.9	11	176	352		
4.4	112.0	26.1	4.60	5.1 / 5.1	10.5 / 9.6	15.6 / 14.7	10	160	320		
4.5	114.0	26.8	4.72	5.1 / 5.1	10.3 / 9.4	15.4 / 14.5	10	160	320		

1. The Long-Term Thermal Resistance (LTTR) values were determined in accordance with CAN/ULC S770 at 75°F (24°C). The ultimate R-Value of these products will depend on individual installation circumstances.

2. Value represents average results (Grade 2/Grade 3). 3. Assumes 48' flatbed truck.

Johns Manville Tapered Polyiso Offerings *Please refer to the previous page for typical physical properties.*

Panel Desig.	Slope	Dimension		LTTR* Value Nominal	Pieces per Unit	Square Foot per Unit	Brd Ft per Unit	Slope Profiles	
		Thin	Thick						
1/16 in/ft (5.2 mm/m)									
1A	1/16	0.5	0.75	3.6	70	1120	700	 <p>0.5" 0.75" 1.0" 1.25" 1.5" 1.75" 2.0" 2.25" 2.5" 2.75" 3.0"</p> <p>All Panels Special Order</p>	
1B	1/16	0.75	1	5.0	50	800	700		
1	1/16	1	1.25	6.4	38	608	684		
2	1/16	1.25	1.5	7.8	32	512	704		
3	1/16	1.5	1.75	9.3	28	448	728		
4	1/16	1.75	2	10.7	22	352	660		
5	1/16	2	2.25	12.1	20	320	680		
6	1/16	2.25	2.5	13.6	18	288	684		
1/8 in/ft (10.4 mm/m)									
AA	1/8	0.5	1	4.3	64	1024	768	 <p>0.5" 1.0" 1.5" 2.0" 2.5" 3.0" 3.5" 4.0" 4.5" 5.0" 5.5"</p> <p>Extended and Special Order Panels: D, E, F, FF</p> <p>All Panels Special Order</p>	
A	1/8	1	1.5	7.1	38	608	760		
B	1/8	1.5	2	10.0	26	416	728		
C	1/8	2	2.5	12.9	20	320	720		
D**	1/8	2.5	3	15.9	16	256	704		
E**	1/8	3	3.5	18.9	14	224	728		
F**	1/8	3.5	4	22.1	12	192	720		
FF**	1/8	4	4.5	25.3	10	160	680		
R	1/8	0.75	1.25	5.7	44	704	704		
S	1/8	1.25	1.75	8.6	30	480	720		
T	1/8	1.75	2.25	11.4	22	352	704		
U	1/8	2.25	2.75	14.4	16	256	640		
V	1/8	2.75	3.25	17.4	14	224	672		
W	1/8	3.25	3.75	20.5	12	192	672		
3/16 in/ft (15.6 mm/m)									
J	3/16	1	1.75	7.8	32	512	704		 <p>1.0" 1.75" 2.5" 3.25" 4.0" 4.75" 5.5" 0.5" 1.25" 2.0" 2.75" 3.5" 4.25" 5.0"</p> <p>All Panels Special Order</p>
K	3/16	1.75	2.5	12.1	20	320	680		
L**	3/16	2.5	3.25	16.6	16	256	736		
M**	3/16	3.25	4	21.2	12	192	696		
JJ	3/16	0.5	1.25	5.0	52	832	728		
KK	3/16	1.25	2	9.3	28	448	728		
LL**	3/16	2	2.75	13.6	18	288	691		
MM**	3/16	2.75	3.5	18.2	14	224	694		
1/4 in/ft (20.8 mm/m)									
G	1/4	1	2	8.6	32	512	768	 <p>0.5" 1.50" 2.5" 3.5" 4.5" 5.5" 6.5" 1.0" 2.0" 3.0" 4.0" 5.0" 6.0"</p> <p>Extended and Special Order Panels: Z, ZZ</p> <p>All Panels Special Order</p>	
H	1/4	2	3	14.4	18	288	720		
I**	1/4	3	4	20.5	12	192	672		
X	1/4	0.5	1.5	5.7	48	768	768		
Y	1/4	1.5	2.5	11.4	24	384	768		
Z**	1/4	2.5	3.5	17.4	16	256	768		
ZZ**	1/4	3.5	4.5	23.6	12	192	768		
3/8 in/ft (31.2 mm/m)									
SS	3/8	0.5	2	7.1	36	576	720	 <p>0.5" 2.0" 3.5" 5.0" 6.5"</p> <p>All Panels Special Order</p>	
TT**	3/8	2	3.5	15.9	16	256	704		
1/2 in/ft (41.6 mm/m)									
Q	1/2	0.5	2.5	8.6	32	512	768	 <p>0.5" 2.5" 4.5" 6.5" 0.5" 2.5" 4.5" 1.0" 3.0" 5.0"</p> <p>Extended and Special Order Panels: QQ</p> <p>Special Order</p>	
QQ**	1/2	2.5	4.5	20.5	12	192	672		
XX	1/2	1	3	11.4	22	352	704		

* (hr•ft²•°F/Btu)
 ** Extended panels require less adhesive and less labor.

Tapered Recycle Content:

Recycled content is dependent upon average thickness. To calculate, match the average thickness of Tapered ENRGY 3 to the thickness of Flat ENRGY 3. Use the number from Flat ENRGY 3 as your recycled content.

All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville roofing products and systems, visit www.jm.com/terms-conditions.

Features and Components

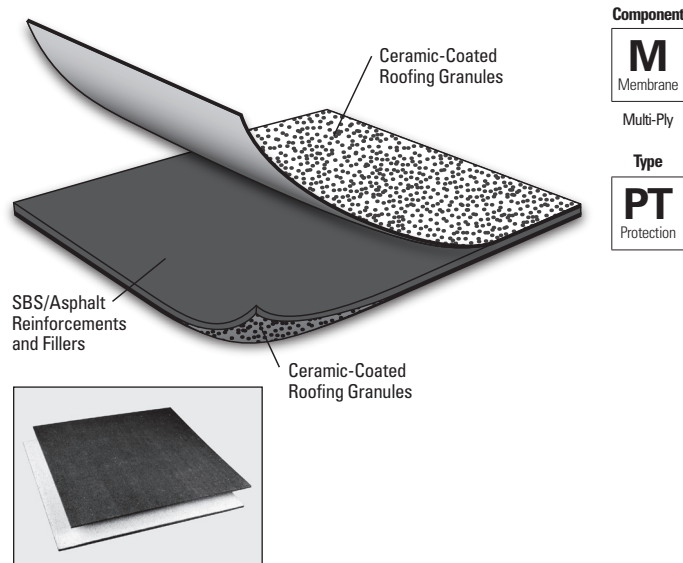
DynaTred™, DynaTred Plus®, and DynaTred Max™

Preformed, skid-resistant roof protection pads consisting of modified asphalt, reinforcements and fillers with a ceramic granule surface on both sides. They are durable, resilient and maintenance free.

DynaTred, DynaTred Plus and DynaTred Max can be installed over built-up and modified bitumen roofing systems to provide an integral, skid-resistant walkway for demanding service access needs.

Ceramic-Coated Roofing Granules: Specifically engineered for optimal embedment in the modified asphalt sheet. The ceramic coating promotes excellent long-term adhesion.

Easy Installation: Can be easily cut with a heavy-duty utility knife or circular saw with a carbide-tipped blade.



Component
M Membrane
Multi-Ply
Type
PT Protection

Colors: Available in either Black/White or White/White.

System Compatibility This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.

Multi-Ply	BUR		APP		SBS			
	HA	CA	CA	HW	HA	CA	HW	SA
Compatible with all Multi-Ply systems								

Single Ply	TPO		PVC		EPDM		
	MF	FA	MF	FA	MF	FA	BA
Do not use with Single Ply systems							

Key: HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened FA = Fully Adhered BA = Ballasted

Energy and the Environment

Pre-Consumer Recycled Content	0%
Post-Consumer Recycled Content	0%

Typical Physical Properties

Property	Result
Thickness	
DynaTred	¼" (6.35 mm)
DynaTred Plus	⅓" (8.47 mm)
DynaTred Max	½" (12.7 mm)
Water Absorption	<0.5%

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Product Application



- Over smooth or mineral-surfaced roofs, or prior to graveling, install DynaTred, DynaTred Plus, and DynaTred Max in either a full bed of hot asphalt or MBR® Utility Cement. If installed in hot asphalt, use the same asphalt recommended for use with the BUR or modified bitumen membrane. All four corners of each piece should be fully and firmly set prior to walking on the board.
- Leave a minimum of 1" (2.54 cm) open space in all directions between walkway boards to provide for drainage of the roofing system.
- DynaTred, DynaTred Plus, and DynaTred Max are not recommended for use on slopes in excess of 2" per foot (167 mm/m).

Packaging and Dimensions

Product	DynaTred, DynaTred Plus	DynaTred Max
Pad Coverage	7.11 ft ² (0.66 m ²)	
Pad Length	32" (81.3 cm)	
Pad Width	32" (81.3 cm)	
Pads per Pallet	100	50



Building Owner:

Name - SAMPLE
Address - SAMPLE
City, State Zip - SAMPLE

Guarantee Number: *Sample - not issued*
Expiration Date: *Sample - not issued*
Job Name: *Sample - not issued*

Building Name:

Name - SAMPLE
Address - SAMPLE
City, State Zip - SAMPLE

Date of Completion: *Sample - not issued*

Approved Roofing Contractor:

Name - SAMPLE
Address - SAMPLE
City, State Zip - SAMPLE

Terms & Maximum Monetary Obligation to Maintain a Watertight Roofing System.

Years: XX Year **\$** No Dollar Limit

Coverage:

The components of the Roofing System covered by this Guarantee are:

Total Squares: XXX

Sec.	Sqs.	Roof Type	Membrane Spec.	Insulation Type			Cover Board
				Layer 1	Layer 2	Layer 3	
1	XXX	XXXX	XXXXX	XXX	XXX	XXX	XXX

Accessories:	Type	Product Name	Quantity
	Expand-O-Flash (1) Style:		0 lin. ft.
	Expand-O-Flash (2) Style:		0 lin. ft.
	Expand-O-Flash (3) Style:		0 lin. ft.
	Fascia Style:		0 lin. ft.
	Copings Style:		0 lin. ft.
	Gravel Stop Style:		0 lin. ft.
	Drains (1) Style:		0 ea.
	Drains (2) Style:		0 ea.
	Vents Style:		0 ea.
	Skylight System:		0 ea.
	Engry Anchor		0 ea.

These Johns Manville Guaranteed components are referred to above as the "Roofing System" and ALL OTHER NON-JM COMPONENTS OF THE OWNER'S BUILDING ARE EXCLUDED FROM THE TERMS OF THIS GUARANTEE, including any amendments thereto.

Johns Manville* guarantees to the original Building Owner that during the Term commencing with the Date of Completion (as defined above), JM will pay for the materials and labor reasonably required in Johns Manville's sole and absolute discretion to repair the Roofing System to return it to a watertight condition if leaks occur due to: ordinary wear and tear, or deficiencies in any or all of the Johns Manville component materials of the Roofing System, or workmanship deficiencies only to the extent they arise solely out of the application of the Roofing System. Non-leaking blisters are specifically excluded from coverage. Should any investigation or inspection reveal the cause of a reported leak to be outside the scope of coverage under this Guarantee, then all such investigation and inspection costs shall be borne solely by the Building Owner.

WHAT TO DO IF YOUR ROOF LEAKS

If you should have a roof leak please refer to directions on the Maintenance Program page within this document.

LIMITATIONS AND EXCLUSIONS

This Guarantee is not a maintenance agreement or an insurance policy; therefore, routine inspections and maintenance are the Building Owner's sole responsibility (see Maintenance Program page of this document). This Guarantee does not obligate JM to repair or replace the Roofing System, or any part of the Roofing System, for leaks or appearance issues resulting, in whole or in part, from one or more of the following (a) natural disasters including but not limited to the direct or indirect effect of lightning, flood, hail storm, earthquake, tornados, hurricanes or other extraordinary natural occurrences and/or wind speeds in excess of 55 miles per hour; (b) misuse, abuse, neglect or negligence; (c) Failure by the Building Owner to use reasonable care in maintaining the roofing system, said maintenance which is recommended to include those items listed on the Maintenance Program page of this Guarantee; (d) installation or material failures other than those involving the component materials expressly defined above as the Roofing System or exposure of the Roofing System components to damaging substances such as oil, fertilizers, or solvents or to damaging conditions such as vermin; (e) any and all (l) changes, alterations, repairs to the Roofing System, including, but not limited to, structures, penetrations, fixtures or utilities (including vegetative and solar overlays) based upon or through the Roofing System as well as any (ll) changes to the Building's usage that are not pre-approved in writing by JM; (f) failure of the Building substrate (mechanical, structural, or otherwise and whether resulting from Building movement, design defects or other causes) or improper drainage; (g) defects in or faulty/improper design, specification construction or engineering of the Building or any area over which the Roofing System is installed; (h) defects in or faulty/improper architectural, engineering or design flaws of the Roofing System or Building, including, but not limited to, design issues arising out of improper climate or building code compliance; or (i) in instances of a recover project, Johns Manville is not responsible for the performance of pre-existing materials that predated the recover. Instead, Johns Manville's sole responsibility in recover systems where JM materials are adhered to existing materials is limited to the installed recover JM Roofing materials up to the wind speed listed herein. Guarantee coverage is limited to replacing recover JM Roofing materials only (and not the pre-existing materials – which is the Owner's responsibility) as required to return the roofing system to a watertight condition due to a claim covered under the terms and conditions herein. Johns Manville is not responsible for leaks, injuries or damages resulting from any water entry from any portion of the Building structure not a part of the Roofing System, including, but not limited to, deterioration of the roofing substrate, walls, mortar joints, HVAC units and all other non-Johns Manville materials and metal components. Moreover, the Building Owner is solely and absolutely responsible for any removal and/or replacement of any overburdens, super-strata or overlays, in any form whatsoever, as reasonably necessary to expose the Roofing System for inspection and/or repair.

This Guarantee becomes effective when (1) it is delivered to Owner; and (2) all bills for installation, materials, and services have been paid in full to the Approved Roofing contractor and to JM. Until that time, this Guarantee is not in force, has no effect – and JM is under no obligation whatsoever to perform any services/work.

The Parties agree that any controversy or claims relating to this Guarantee shall be first submitted to mediation under the Construction Industry Arbitration and Mediation Rules of the American Arbitration Association (Regular Track Procedures) or to such other mediation arrangement as the parties mutually agree. No court or other tribunal shall have jurisdiction until the mediation is completed. In any action or proceeding brought against the Building Owner to enforce this Guarantee or to collect costs due hereunder, Johns Manville shall be entitled to recover its reasonable costs, expenses and fees (including expert witness' fees) incurred in any such action or proceeding, including, without limitation, attorneys' fees and expenses, and the Building Owner shall pay it.

TO THE FULLEST EXTENT PERMITTED BY LAW, JM DISCLAIMS ANY IMPLIED WARRANTY, INCLUDING THE WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND LIMITS SUCH WARRANTY TO THE DURATION AND TO THE EXTENT OF THE EXPRESS WARRANTY CONTAINED IN THIS GUARANTEE.

THE EXCLUSIVE RESPONSIBILITY AND LIABILITY OF JM UNDER THIS GUARANTEE IS TO MAKE REPAIRS NECESSARY TO MAINTAIN THE ROOFING SYSTEM IN A WATERTIGHT CONDITION IN ACCORDANCE WITH THE OBLIGATIONS OF JM UNDER THIS GUARANTEE. JM AND ITS AFFILIATES WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES TO THE BUILDING STRUCTURE (UPON WHICH THE ROOFING SYSTEM IS AFFIXED) OR ITS CONTENTS AND OR OCCUPANTS, LOSS OF TIME OR PROFITS OR ANY INCONVENIENCE, INJURY. JM SHALL NOT BE LIABLE FOR ANY CLAIM MADE AGAINST THE BUILDING OWNER BY ANY THIRD PARTY AND THE BUILDING OWNER SHALL INDEMNIFY AND DEFEND JM AGAINST ANY CLAIM BROUGHT BY ANY THIRD PARTY AGAINST JM RELATING TO OR ARISING OUT OF THE ROOFING SYSTEM OR JM'S OBLIGATIONS UNDER THIS GUARANTEE. JM AND ITS AFFILIATES SHALL NOT BE LIABLE FOR ANY DAMAGES WHICH ARE BASED UPON NEGLIGENCE, BREACH OF WARRANTY, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY OTHER THAN THE EXCLUSIVE LIABILITY SET FORTH IN THIS GUARANTEE. THIS GUARANTEE DOES NOT COVER, AND EXPLICITLY EXCLUDES, ANY AND ALL INJURIES, CLAIMS AND/OR DAMAGES RESULTING, IN WHOLE OR IN PART, FROM ANY WATER ENTRY FROM ANY PORTION OF THE BUILDING STRUCTURE INCLUDING, BUT NOT LIMITED TO, THE ROOFING SYSTEM.

No one is authorized to change, alter, or modify the provision of this Guarantee other than the Regional Service Manager, or authorized delegate. JM's delay or failure in enforcing the terms and conditions contained in this Guarantee shall not operate as a waiver of such terms and conditions. This Guarantee is solely for the benefit of the Building Owner identified above and Building Owner's rights hereunder are not assignable. Upon sale or other transfer of the Building, Building Owner may request transfer of this Guarantee to the new owner, and JM will transfer this Guarantee, only after completing JM's transfer requirements including JM receiving satisfactory information and payment of a transfer fee, which must be paid no later than 30 days after the date of Building ownership transfer.

In the event JM pays for repairs which are required due to the acts or omissions of others, JM shall be subrogated to all rights of recovery of the Building Owner to the extent of the amount of the repairs.

Because JM does not practice Engineering or Architecture, neither the issuance of this Guarantee nor any review of the Building's construction or inspection of roof plans (or the Building's roof deck) by JM representatives shall constitute any warranty by JM of such plans, specifications, and construction or in any way constitute an extension of the terms and conditions of this Guarantee. Any roof inspections are solely for the benefit of JM.

JM does not supervise nor is it responsible for a roofing contractor's work except to the extent stated herein, and roofing contractors are not agents of JM.

*JOHNS MANVILLE ("JM") is a Delaware corporation.

SAMPLE ONLY – NOT ISSUED

By: Joseph Smith
Title: President Roofing Systems

Addendum(s)

SAMPLE

Maintenance Program

The following Maintenance Program is recommended and should be implemented and followed:

1. Building Owner must notify JM's Owner Services Group (see below) immediately upon discovery of the leak and in no event later than thirty (30) days after initial discovery of the leak, time being of the essence. Failure of the Building Owner to provide timely notice to JM Guarantee Services of any leak is a material ground for termination of the Guarantee.
2. In response to timely notice, JM will arrange to inspect the Roofing System, and
 - (i) If, in JM's opinion, the leak(s) is/are the responsibility of JM under this Guarantee (see Limitations and Exclusions), then JM will take prompt appropriate action to return the Roofing system to a watertight condition, or
 - (ii) If, in JM's opinion, the leak(s) is/are not the responsibility of JM under this Guarantee, then JM will advise the Building Owner within a reasonable time of the minimum repairs that JM believes are required to return the Roofing System to a watertight condition. If the Building Owner, at his expense, promptly and timely makes such repairs to the Roofing System (time being of the essence) then this Guarantee will remain in effect for the unexpired portion of its Term. Failure to make any of these repairs in a timely and reasonable fashion will void any further obligation of JM under this Guarantee as to the damaged portion of the Roofing System as well as any other areas of the Roofing System impacted by such failure.
3. In the event an emergency condition exists which requires immediate repair to avoid damage to the Building, its contents or occupants, then Building Owner may make reasonable, essential temporary repairs. JM will reimburse Building Owner for those reasonable repair expenses only to the extent such expenses would have been the responsibility of JM under the Guarantee.

There are a number of items not covered by this Guarantee that are the sole, exclusive responsibility of the Building Owner. In order to ensure that your new roof will continue to perform its function and to continue JM's obligations under the Guarantee, you should examine and maintain the items below on a regular basis. All damage or leak investigation findings that are the direct result of non-covered maintenance items are the sole responsibility of the owner.

- Maintain a file for your records on this Roofing System, including, but not limited to, this Guarantee, invoices, and subsequent logs of all inspections performed and repairs that are made to the Roofing System.
- Inspect your Roofing System at least semi-annually. This is best done in the spring, after the Roofing System has been exposed to the harsh winter conditions, and, in the Fall after a long hot summer. It is also a good idea to examine the Roofing System for damage after severe weather conditions such as hailstorms, heavy rains, high winds, etc.
- Since these types of Roofing Systems typically have a low slope, they are easily examined. However, care must be taken to prevent falling and other accidents. JM expressly disclaims and assumes no liability for any inspections performed on the Roofing System.

When checking the Roofing System:

- Remove any debris such as leaves, small branches, dirt, rocks, etc. that have accumulated.
- Clean gutters, down spouts, drains and the surrounding areas. Make certain they allow water to flow off the Roofing System. Positive drainage is essential.
- Examine all metal flashings for rust and damage that may have been caused by wind or traffic on the Roofing System, and make certain they are well attached and sealed. Any damaged materials due to foot traffic or service work, loose clamps at penetrations, or poorly sealed materials at drains or penetrations pockets must be repaired by a JM Approved Roofing Contractor only.
- Examine the areas that abut the Roofing System. Damaged masonry, poorly mounted counter flashing, loose caulking, bad mortar joints, and any loose stone or tile coping can appear to be a membrane leak. Have these items repaired if found to be defective.
- Examine the edges of the Roofing System. Wind damage often occurs in these areas. Materials that have been lifted by the wind need to be corrected by a JM Approved Roofing Contractor.
- Examine any roof top equipment such as air conditioners, evaporative coolers, antennas, etc. Make certain they do not move excessively or cause a roof problem by leaking materials onto the Roofing System.
- Check the building exterior for settlement or movement. Structural movement can cause cracks and other problems which in turn may lead to leaks in your Roofing System.
- Examine protective coatings; any cracked, flaking, or blistered areas must be recoated.

Protecting your investment:

- Avoid unnecessary roof top traffic.
- If you allow equipment servicemen to go onto the Roofing System, advise them to be careful. Dropped tools, heavy equipment, etc. can damage the membrane. It is recommended to keep a log of all such trips to the Roofing System.
- Do not allow service personnel to make penetrations into the Roofing System; these are to be made only by a JM Approved Roofing Contractor.

All the terms and conditions of this Guarantee shall be construed under the internal law of the state of Colorado without regard to its conflicts of law principles. Invalidity or unenforceability of any provisions herein shall not affect the validity or enforceability of any other provision which shall remain in full force and effect to the extent the main intent of the document is preserved.

This form is not to be copied or reproduced in any manner. This Guarantee is valid only in the United States of America.

Owner Services Group

(800) 922-5922

E-mail: OwnerServices@jm.com

www.jm.com/roofing