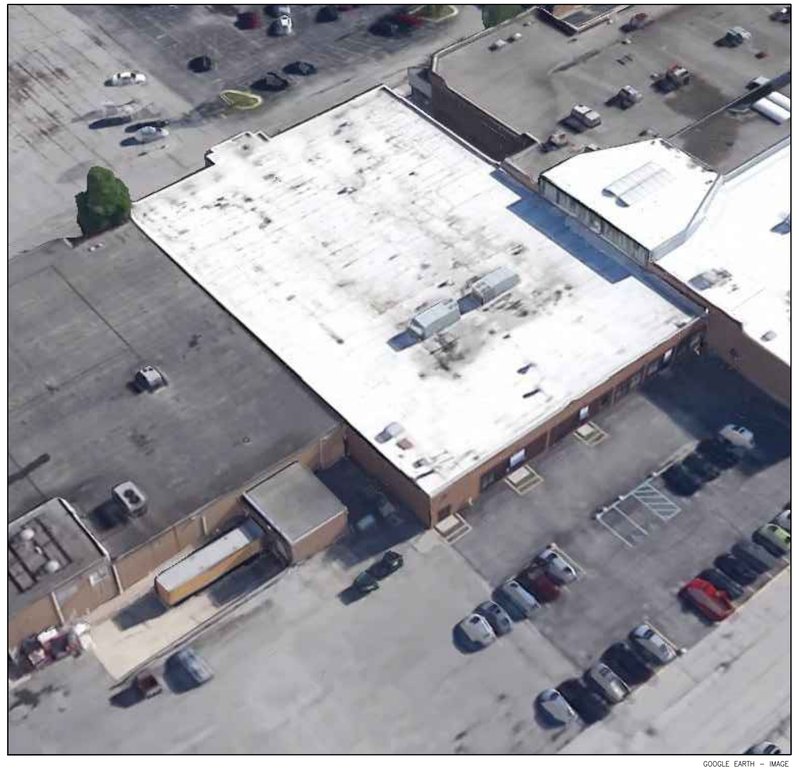
BAY ARENAC ISD
2023 ROOF REPLACEMENT
LLC BAY
1435 W. CENTER RD. ESSEXVILLE, MI. 48708

DRAWING INDEX - ROOF DESIGN



GOOGLE EARTH – IMAGE

SYMBOL LEGEND

- MECHANICAL EQUIPMENT
- BLANK CURB
- POWERED VENTILATOR
- SKY — SKYLIGHT
- COLUMN OR EQUIPMENT SUPPORTS
- SCUPPER
- ROOF DRAIN
- SPLASHBLOCK
- PLUMBING VENT
- PIPE PENETRATION
- PITCH PAN
- ROOF HATCH
- LADDER
- INSULATION VENT
- WALKWAY
- ELEVATED PIPING
- RIDGE LINE
- AREA–ID — AREA ID
- X — KEYED NOTES
- # — DETAIL REFERENCE
- NAR — NOT A ROOF AREA
- NIC — NOT IN CONTRACT

ADDENDUM 1
4/4/2023

APPLICABLE CODES

2015 MICHIGAN BUILDING CODE
BASED ON THE 2015 IBC, 2015 IECC, ASHRAE 90.1-2013
CLIMATE ZONE 5

DESIGN BASED ON WIND UPLIFT CALCULATIONS ASCE 7-16 WIND UPLIFT PRESSURES EXPOSURE: B, WIND SPEED: 105, RISK CATEGORY:II
ZONE 1: 16.2 PSF ZONE 1: 28.1 PSF ZONE 2: 37.1 PSF ZONE 3: 50.6 PSF

PERIMETER EDGE METAL UPLIFT LOADS
ZONE 2: 37.1 PSF ZONE 3: 50.6 PSF ZONE 4: 19.1 PSF ZONE 5: 23.7 PSF

BTA BUILDING TECHNOLOGY ASSOCIATES
Building Technology Associates, Inc.
21850 Greenfield Rd. Oak Park, MI 48237-2507

STATE OF MICHIGAN
SCOTT R. HOFFMAN
ENGINEER
No. 52575
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	BY	PROJECT ARCH ENGINEERING APPROVAL	APPROVAL
3				
2				
1	4/4/2023			

REVISIONS

KEY PLAN

IF THIS SHEET IS NOT 24 BY 36 INCHES, THEN USE GRAPHIC SCALE ACCORDINGLY.

Bay Arenac ISD™

BAY ARENAC ISD
2023 ROOFING REPLACEMENT

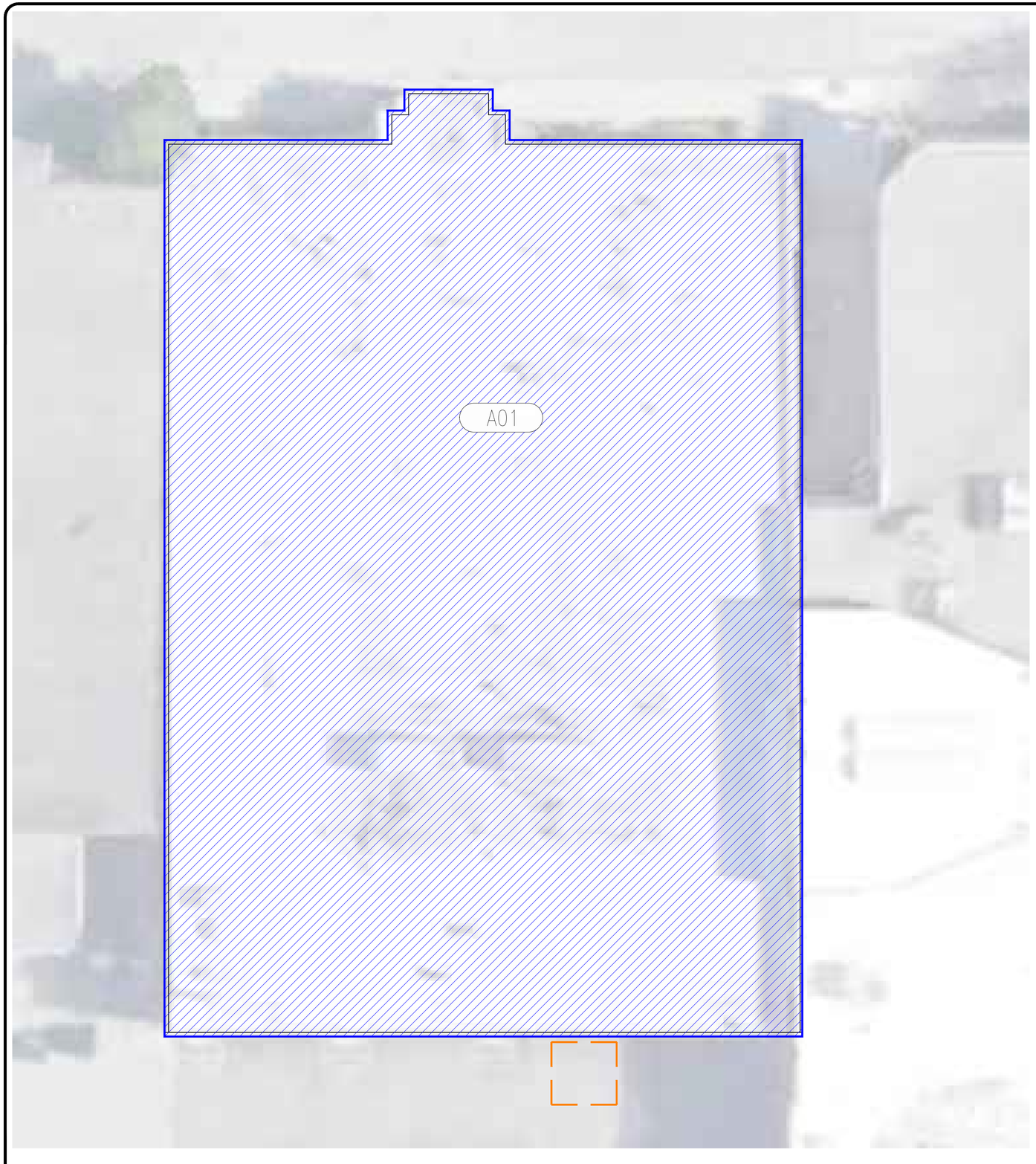
LLC BAY

1435 W. CENTER RD
ESSEXVILLE, MI. 48708

TITLE SHEET

DRAWING NAME	
TITLE SHEET	
DRAFTER: AB	DESIGNER: MG
DATE: 3/17/23	CHECKED BY: BB

SHEET NO.
1 OF 11



ROOF DESIGN SCOPE OF WORK

BASE BID (ROOF REPLACEMENT)

TYPE BID	ROOF AREA	EXISTING ROOF TYPE	SIZE (SF)
BASE BID	A01	PVC	32,000

ROOF DESIGN SCOPE OF WORK

SETUP AREA: APPROXIMATE LOCATION, ROOFING CONTRACTOR TO COORDINATE WITH OWNERS REPRESENTATIVE.

GENERAL NOTES:

A. ROOFING CONTRACTOR SHALL VERIFY DIMENSIONS, QUANTITIES, AND CONDITIONS AT THE SITE.
B. ROOF PENETRATIONS / PROJECTIONS MAY HAVE BEEN ADDED OR MAY HAVE BEEN REMOVED, SO ARE NOT NECESSARILY ALL SHOWN ON THE ROOF PLAN. FIELD VERIFY ALL LOCATIONS PRIOR TO USING THE INFORMATION, AND MODIFY ACCORDINGLY.
C. COMPONENTS INDICATED IN NOTES AND DETAILS ARE "NEW" UNLESS OTHERWISE NOTED AS EXISTING.
D. CONDITIONS NOT SPECIFICALLY ADDRESSED BY EITHER SPECIFICATIONS OR DETAILS CONSULT WITH BTA AND THE ROOFING MANUFACTURER AND SUBMIT DETAILED SHOP DRAWINGS.
E. DETAILS FOR EACH AND EVERY ROOF PENETRATIONS / PENETRATIONS OR FLASHING COMPONENTS MAY NOT NECESSARILY ALL BE SHOWN ON THE ROOF PLANS; USE THE APPROPRIATE DETAIL SPECIFIED FOR THE CONDITION ENCOUNTERED.

SUMMARY OF WORK:

PREPARE EXISTING ROOF AREA AND PROVIDE NEW ROOF SYSTEM (INSULATION, MEMBRANE, FLASHINGS):

1. REMOVE EXISTING THERMOPLASTIC MEMBRANE, BASE FLASHING, SHEET METAL, AND ASSOCIATED PENETRATION FLASHING. REMOVE AND DISCARD THE POLYSTYRENE COVER BOARD. SWEEP AND VACUUM THE EXISTING AGGREGATE. LEAVE EXISTING BUR MEMBRANE AND INSULATION IN PLACE.
2. REMOVE AREAS OF WET AND DAMAGED INSULATION FOUND DOWN TO THE STRUCTURAL DECK. REPLACE WET INSULATION WITH NEW INSULATION TO MATCH EXISTING (UNIT COST);
3. AT THE LOCATION WHERE INSULATION IS REMOVED, INSPECT THE EXISTING DECK: REPLACE DETERIORATED DECKING WITH NEW TO MATCH EXISTING (UNIT COST);
4. AT EXISTING ROOF DRAINS, REMOVE AND DISCARD AN 8-FOOT BY 8-FOOT AREA OF INSULATION TO ALLOW FOR THE INSTALLATION OF A TAPERED SUMP.
5. PROVIDE REQUIRED WOOD BLOCKING WHERE INDICATED ON THE PROJECT DRAWINGS.
6. **A01-** PROVIDE (1) ONE LAYER OF 2-INCH THICK POLYISOCYANURATE ROOF INSULATION MECHANICALLY FASTENED.
7. PROVIDE (1) ONE LAYER 0.5-INCH THICK MANUFACTURER'S APPROVED COVER BOARD, IN LOW-RISE FOAM ADHESIVE.
8. PROVIDE SINGLE-PLY 60 MIL EPDM ROOF SYSTEM FULLY ADHERED, SHEET METAL COMPONENTS, AND ACCESSORIES.
9. FLASH ALL PENETRATIONS PER NRCA AND/OR MANUFACTURER'S RECOMMENDED PROCEDURES, AND AS INDICATED ON DRAWINGS.
10. UPON COMPLETION OF WORK, PROVIDE A ROOFING MANUFACTURER'S 20-YEAR WARRANTY AND A CONTRACTORS 5-YEAR GUARANTEE.

N

SCOPE OF WORK
NOT TO SCALE

ADDENDUM 1
4/4/2023

BTA
BUILDING TECHNOLOGY ASSOCIATES
Building Technology Associates, Inc.
21850 Greenfield Rd. Oak Park, MI 48237-2507

STATE OF MICHIGAN
SCOTT R. HOFFMAN
ENGINEER
No. 52575
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	BY	PROJECT ARCH ENGINEERING APPROVAL	APPROVAL
3				
2				
1	4/4/2023			

REVISIONS

KEY PLAN

IF THIS SHEET IS NOT 24 BY 36 INCHES, THEN USE GRAPHIC SCALE ACCORDINGLY.

Bay Arenac ISD

BAY ARENAC ISD
2023 ROOFING REPLACEMENT

LLC BAY

1435 W. CENTER RD
ESSEXVILLE, MI. 48708

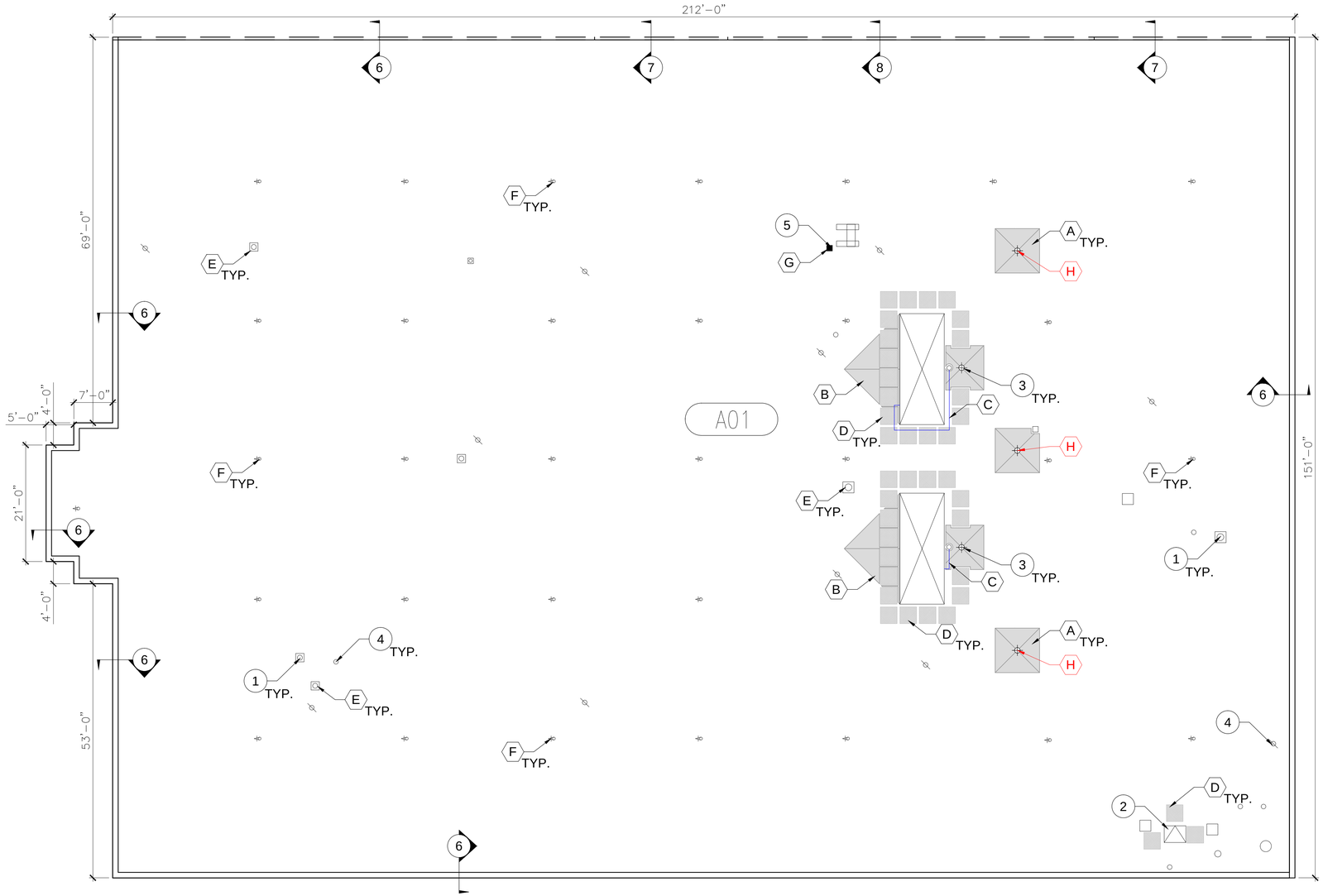
SCOPE OF WORK

DRAWING NAME: SCOPE OF WORK

DRAFTER	DESIGNER
AB	MG

DATE	CHECKED BY
3/17/23	BB

SHEET NO.
2 OF 11



KEY NOTES:

A REMOVE EXISTING INSULATION PROVIDE 8-FOOT X 8-FOOT TAPERED DRAINAGE SUMPS AT ROOF DRAIN LOCATIONS INDICATED ON THE ROOF PLAN. REFER TO DETAIL 3 AND SECTION 07 2100 FOR PRODUCT AND INSTALLATION REQUIREMENTS.

B PROVIDE ROOF DRAINAGE SADDLES AND CRICKETS TO ACHIEVE POSITIVE FINISHED ROOF SLOPE.

C EXISTING UTILITY LINES - TEMPORARILY DISPLACE TO ALLOW FOR INSTALLATION OF NEW ROOF SYSTEM. PROVIDE TEMPORARY SUPPORT DURING INSTALLATION OF NEW ROOF SYSTEM. AFTER COMPLETION OF ROOF REPLACEMENT WORK, RETURN TO ORIGINAL POSITION, AND REINSTALL ON PREFABRICATED SUPPORTS SET ON WALKPADS AFTER INSTALLATION OF NEW ROOFING SYSTEM. NOTE THAT DISCONNECTION AND RECONNECTION OF UTILITY LINES SHALL BE PERFORMED BY A CONTRACTOR LICENSED TO PERFORM THE SPECIFIED WORK.

D AT LOCATIONS INDICATED ON THE ROOF PLAN, INSTALL SPECIFIED WALKWAY PAD APPROVED BY THE ROOFING MEMBRANE MANUFACTURER. REFER TO THE ROOFING MEMBRANE SECTION FOR PRODUCT AND INSTALLATION REQUIREMENTS.

E RAISE EXISTING ROOF CURBS AND/OR PROVIDE NEW, PRE-MANUFACTURED ROOF CURBS TO ACHIEVE 8-INCH MINIMUM FLASHING HEIGHT.

F REMOVE AND DISCARD EXISTING BREATHER VENTS.

G OWNER WILL ADJUST SUPPLY LINES. ROOFING CONTRACTOR INSTALL SHEET METAL DOG HOUSE

H INSTALL NEW DRAIN INSERTS .

ROOF AREA A01

EXISTING CONSTRUCTION

METAL DECK

TWO (2) LAYERS 15/16 -INCH THICK FIBERGLASS INSULATION

COAL TAR PITCH BUILT-UP ROOF MEMBRANE (AGGREGATE)

½ -INCH EXTRUDED POLYSTYRENE INSULATION

THERMOPLASTIC MEMBRANE MECHANICALLY ATTACHED

PROPOSED CONSTRUCTION

ALL INSTALLED ROOF SYSTEM MUST HAVE A ROOFNAV NUMBER FROM FM GLOBAL

EXISTING METAL DECK

EXISTING TWO (2) LAYERS 15/16 -INCH THICK FIBERGLASS INSULATION

EXISTING COAL TAR PITCH BUILT-UP ROOF MEMBRANE(REMOVE AGGREGATE)

ONE (1) LAYER OF 2-INCH THICK POLYISOCYANURATE INSULATION MECHANICALLY FASTENED

ONE (1) LAYER OF ½-INCH THICK COVER BOARD SECURED IN LOW-RISE FOAM

FULLY ADHERED 60 MIL EPDM MEMBRANE

N

ROOF AREA A01

4' 0 4' 8' 12' 16'

3/32"=1'-0"

ADDENDUM 1
4/4/2023

BTA BUILDING TECHNOLOGY ASSOCIATES

Building Technology Associates, Inc.
21850 Greenfield Rd. Oak Park, MI 48237-2507

STATE OF MICHIGAN
SCOTT R. HOFFMAN
ENGINEER
No. 52575
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	BY	PROJECT/ARCH ENGINEERING APPROVAL	APPROVAL
3				
2				
1	4/4/2023			

REVISIONS

KEY PLAN

IF THIS SHEET IS NOT 24 BY 36 INCHES, THEN USE GRAPHIC SCALE ACCORDINGLY.

Bay Arenac ISD™

BAY ARENAC ISD
2023 ROOFING REPLACEMENT

LLC BAY

1435 W. CENTER RD
ESSEXVILLE, MI. 48708

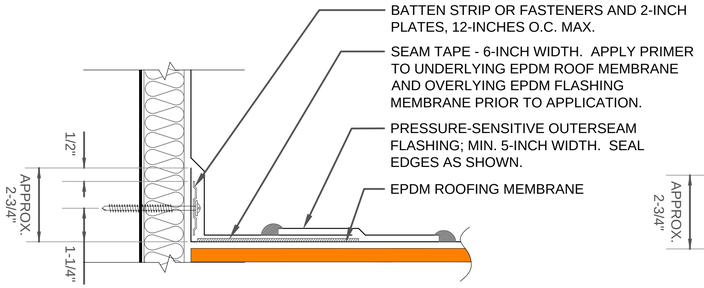
ROOF AREA A01

DRAWING NAME
ROOF AREA A01

DRAFTER	*DESIGNER*
AB	*MG*
DATE	*CHECKED BY*
3/17/23	*BB*

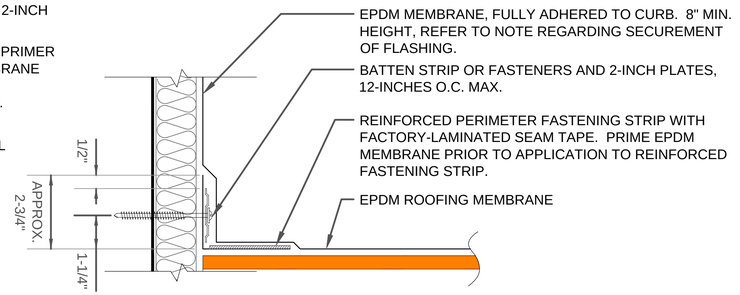
SHEET NO.

ADDENDUM 1
4/4/2023



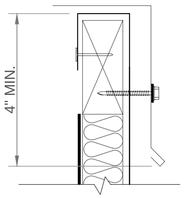
ALT. VERTICAL TERMINATION - TWO PIECE FLASHING

FOR USE WHERE HORIZONTAL TERMINATION OF EPDM MEMBRANE IS NOT POSSIBLE



ALT. VERTICAL MEMBRANE TERMINATION

FOR USE WHERE HORIZONTAL TERMINATION OF EPDM MEMBRANE IS NOT POSSIBLE

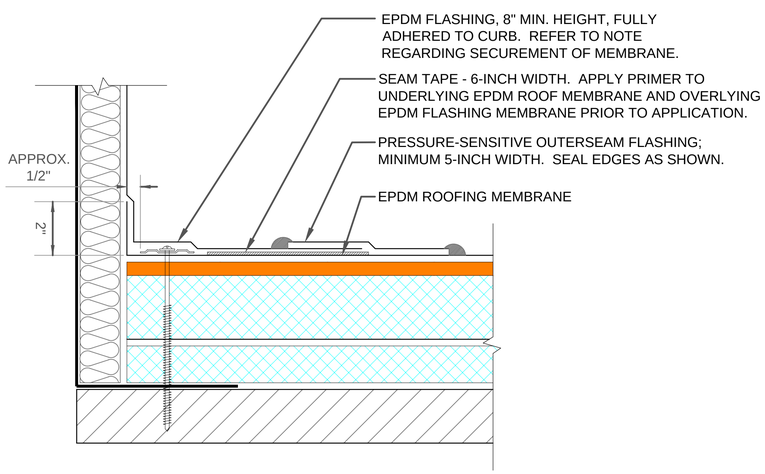


ALT. SECUREMENT

NOTE: SECURE TOP EDGE OF FLASHING USING AN ALUMINUM TERMINATION BAR SECURED 12-INCHES O.C., MAX., AND WITHIN 2-INCHES OF EACH END. PRIOR TO TERMINATION BAR INSTALLATION, INSTALL MANUFACTURERS RECOMMENDED SEALANT BEHIND FLASHING WHERE TERMINATION BAR WILL BE PLACED. SEAL TOP EDGE OF FLASHING AND TERMINATION BAR AFTER INSTALLATION.

ALT. NOTE: WRAP EPDM MEMBRANE FLASHING OVER THE TOP OF THE CURB AND SECURE TO THE INSIDE OF THE CURB WITH 1" METAL CAP NAILS AT 6" O.C. MAXIMUM.

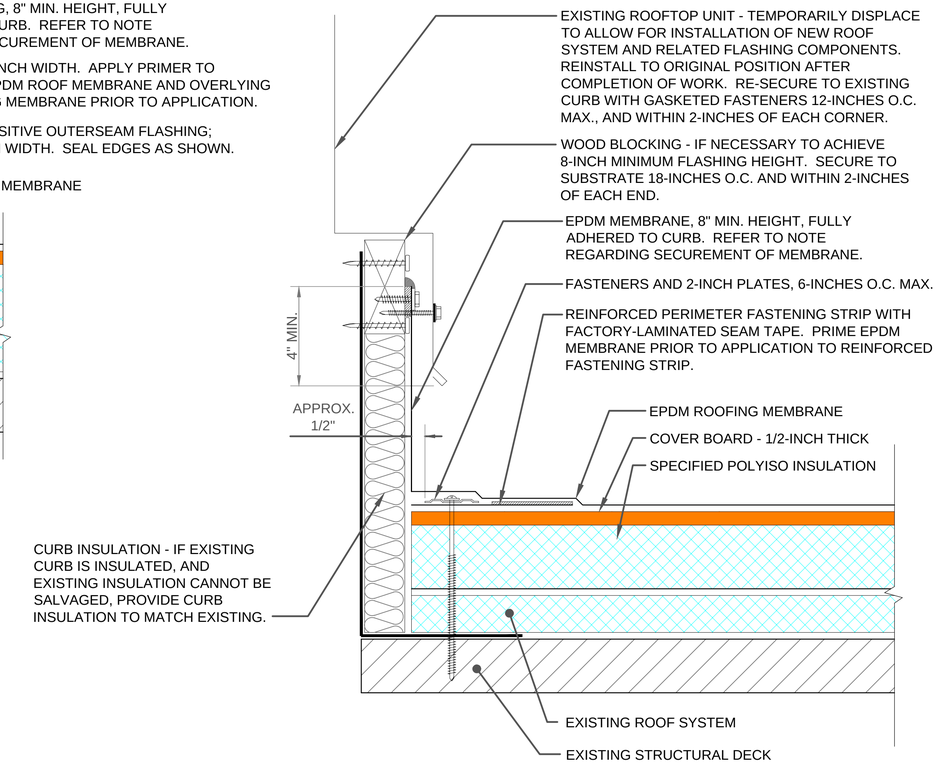
MEMBRANE SECUREMENT



ALT. TWO-PIECE FLASHING

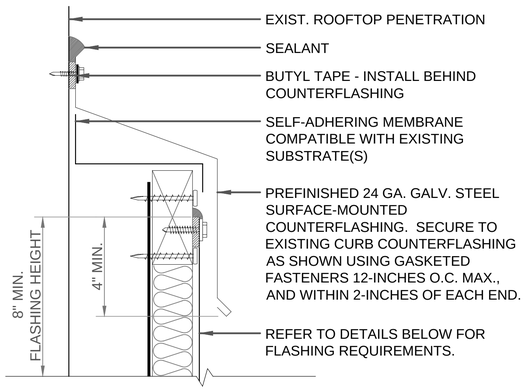
NOTE: INSTALL INSIDE AND OUTSIDE FLASHING CORNERS FOLLOWING THE RECOMMENDATIONS AND REQUIREMENTS OF THE ROOFING MEMBRANE MANUFACTURER. PROVIDE "T-JOINT COVERS" AT THE BASE OF THE CURB AT FLASHING PIECE INTERSECTIONS.

NOTE: DIS-CONNECTIONS AND RE-CONNECTIONS OF ELECTRICAL, PLUMBING OR MECHANICAL CONNECTIONS RELATED TO THE DISPLACEMENT AND RE-INSTALLATION OF ROOFTOP UNITS SHALL BE PERFORMED BY A CONTRACTOR LICENSED TO PERFORM SUCH WORK. COORDINATE THIS WORK WITH THE OWNER.



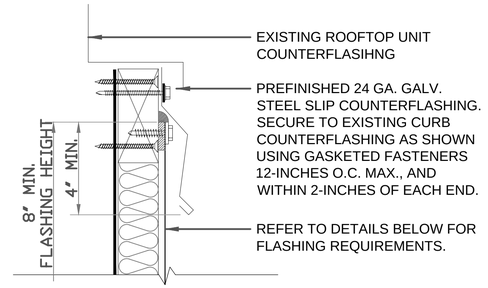
DETAIL 1 - ROOF CURB FLASHING

SCALE: NONE



ALT. COUNTERFLASHING NO. 2

FOR USE WHERE APPROVED AND WHERE EXISTING CURB IS SEPARATED FROM THE EXISTING ROOFTOP PENETRATION



ALT. COUNTERFLASHING NO. 1

FOR USE WHERE APPROVED AND WHERE EXISTING ROOFTOP UNIT CANNOT BE DISPLACED TO ALLOW FOR FLASHING, OR WHERE GAP BETWEEN EXISTING ROOFTOP UNIT COUNTERFLASHING AND CURB IS TOO NARROW TO ACCOMMODATE FLASHING

BTA BUILDING TECHNOLOGY ASSOCIATES
Building Technology Associates, Inc.
21850 Greenfield Rd. Oak Park, MI 48237-2507

STATE OF MICHIGAN
SCOTT R. HOFFMAN
ENGINEER
No. 52575
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	BY	PROJECT/ARCH ENGINEERING APPROVAL	APPROVAL
3				
2				
1	4/4/2023			

REVISIONS

KEY PLAN

IF THIS SHEET IS NOT 24 BY 36 INCHES, THEN USE GRAPHIC SCALE ACCORDINGLY.

Bay Arenac ISD™

BAY ARENAC ISD
2023 ROOFING REPLACEMENT

LLC BAY

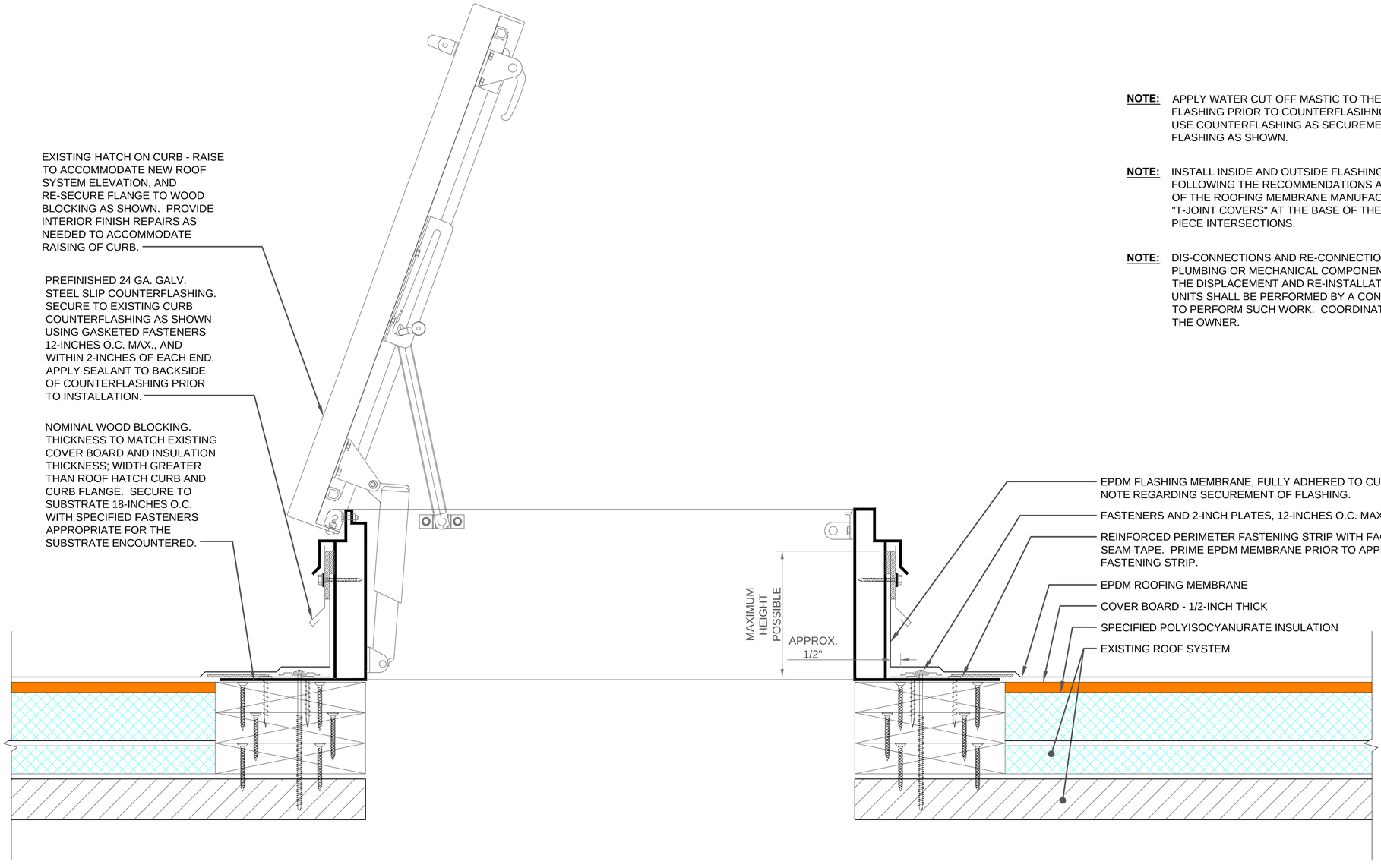
1435 W. CENTER RD
ESSEXVILLE, MI. 48708

ROOF CURB FLASHING

DETAIL #	
1	
DRAFTER: AB	DESIGNER: MG
DATE: 3/17/23	CHECKED BY: BB

SHEET NO.
4 OF 11

ADDENDUM 1
4/4/2023



NOTE: APPLY WATER CUT OFF MASTIC TO THE BACKSIDE OF FLASHING PRIOR TO COUNTERFLASIHNG INSTALLATION. USE COUNTERFLASHING AS SECUREMENT PIECE FOR FLASHING AS SHOWN.

NOTE: INSTALL INSIDE AND OUTSIDE FLASHING CORNERS FOLLOWING THE RECOMMENDATIONS AND REQUIREMENTS OF THE ROOFING MEMBRANE MANUFACTURER. PROVIDE "T-JOINT COVERS" AT THE BASE OF THE CURB AT FLASHING PIECE INTERSECTIONS.

NOTE: DIS-CONNECTIONS AND RE-CONNECTIONS OF ELECTRICAL, PLUMBING OR MECHANICAL COMPONENTS RELATED TO THE DISPLACEMENT AND RE-INSTALLATION OF ROOFTOP UNITS SHALL BE PERFORMED BY A CONTRACTOR LICENSED TO PERFORM SUCH WORK. COORDINATE THIS WORK WITH THE OWNER.

DETAIL 2 - ROOF HATCH CURB FLASHING

SCALE: NONE

BTA
BUILDING TECHNOLOGY ASSOCIATES
Building Technology Associates, Inc.
21850 Greenfield Rd. Oak Park, MI 48237-2507

STATE OF MICHIGAN
SCOTT R. HOFFMAN
ENGINEER
No. 52575
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	BY	PROJECT ARCH ENGINEERING APPROVAL	APPROVAL
3				
2				
1	4/4/2023			

REVISIONS

KEY PLAN

IF THIS SHEET IS NOT 24 BY 36 INCHES, THEN USE GRAPHIC SCALE ACCORDINGLY.

Bay Arenac ISD™

BAY ARENAC ISD
2023 ROOFING REPLACEMENT

LLC BAY

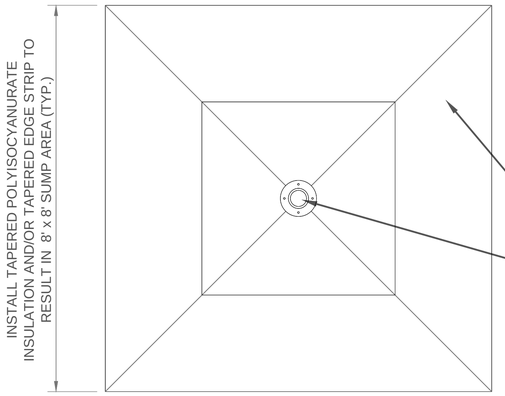
1435 W. CENTER RD
ESSEXVILLE, MI. 48708

ROOF HATCH CURB FLASHING

DETAIL #	
2	
DRAFTER: AB	DESIGNER: MG
DATE: 3/17/23	CHECKED BY: BB

SHEET NO.

ADDENDUM 1
4/4/2023

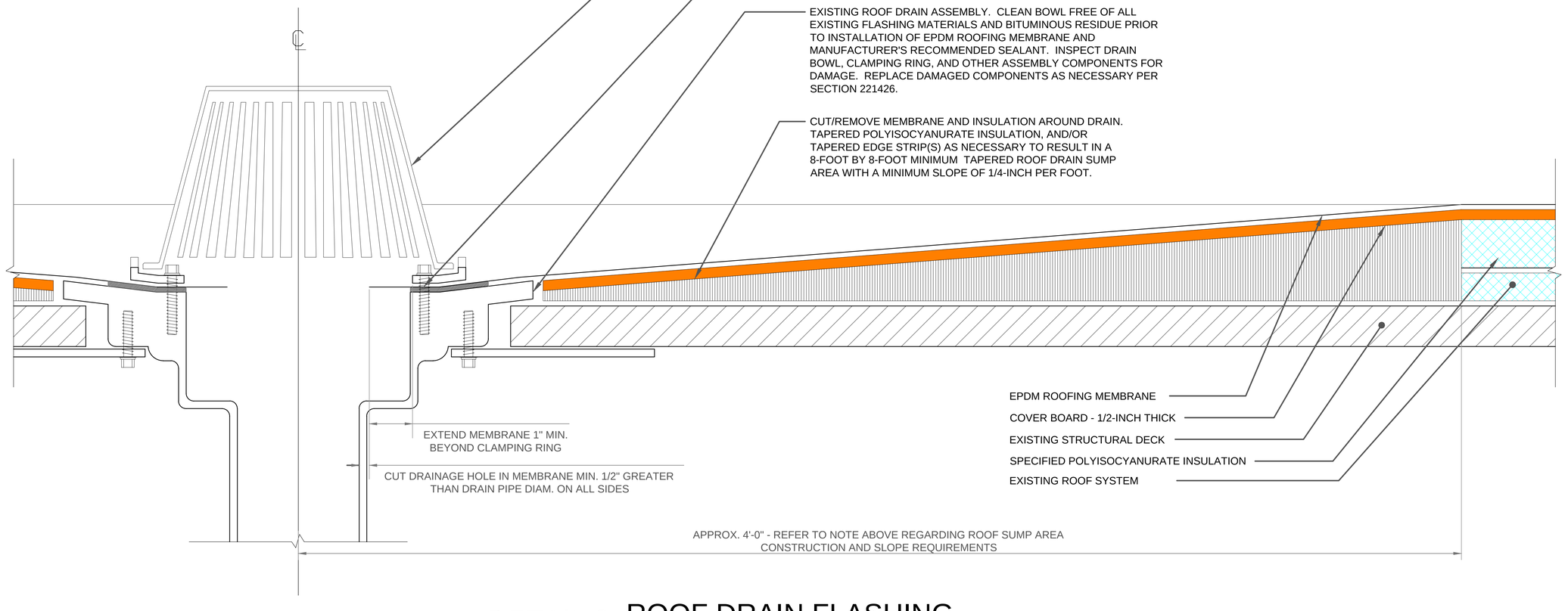


PLAN VIEW OF ROOF SUMP AREA

SCALE: NONE

NOTE: EXTEND EPDM ROOFING MEMBRANE UNDER CLAMPING RING AND INTO THE ROOF DRAIN. TIGHTLY SECURE CLAMPING RING AFTER INSTALLATION OF ROOF DRAIN FLASHING COMPONENTS.

NOTE: IF FIELD SEAM EDGE IS WITHIN 9" OF DRAIN COMPRESSION RING, EPDM TARGET PATCH REQUIRED.



DETAIL 3 - ROOF DRAIN FLASHING

SCALE: NONE

BTA BUILDING TECHNOLOGY ASSOCIATES

Building Technology Associates, Inc.
21850 Greenfield Rd. Oak Park, MI 48237-2507

STATE OF MICHIGAN
SCOTT R. HOFFMAN
ENGINEER
No. 52575
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	BY	PROJECT ARCH ENGINEERING APPROVAL	APPROVAL
3				
2				
1	4/4/2023			

REVISIONS

KEY PLAN

IF THIS SHEET IS NOT 24 BY 36 INCHES, THEN USE GRAPHIC SCALE ACCORDINGLY.

Bay Arenac ISD

BAY ARENAC ISD
2023 ROOFING REPLACEMENT

LLC BAY

1435 W. CENTER RD
ESSEXVILLE, MI. 48708

ROOF DRAIN FLASHING

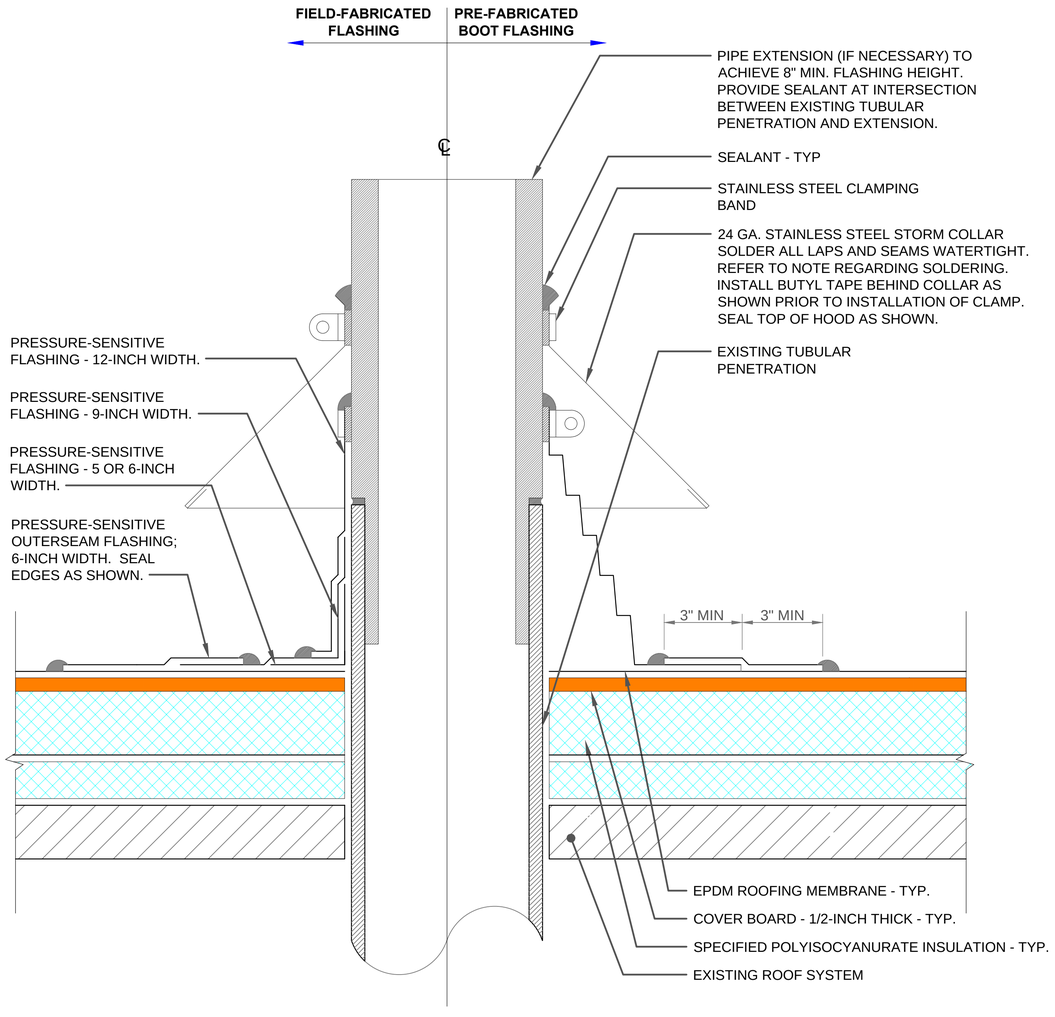
DETAIL #	
3	
DRAFTER: AB	DESIGNER: MG
DATE: 3/17/23	CHECKED BY: BB

SHEET NO.

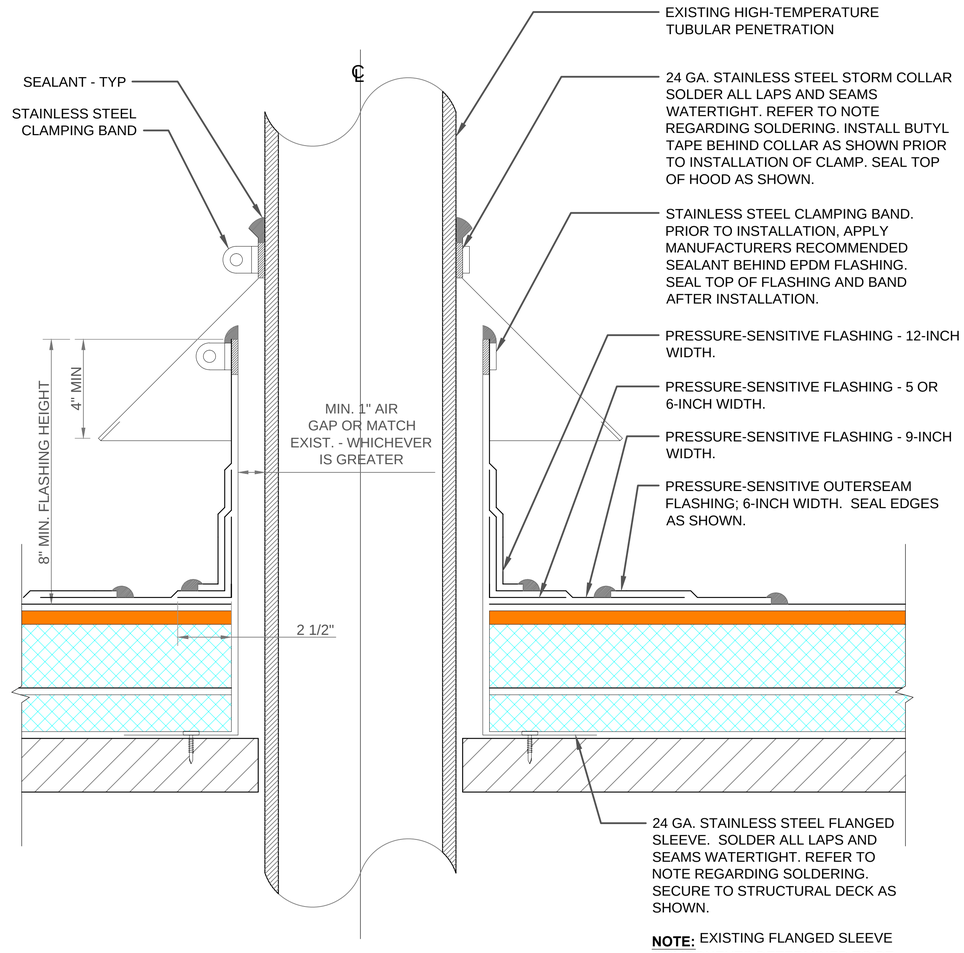
NOTE: PRIOR TO SOLDERING OF STAINLESS STEEL, CLEAN WORK AREA USING SOLVENTS AND WIRE BRUSH; REMOVING DIRT, OIL, GREASE, AND OTHER CONTAMINANTS FROM THE WORK AREA. TIN THE WORK AREA BY APPLYING ACID (FLUX). PERFORM SOLDERING WORK. AFTER COMPLETION OF WORK, REMOVE EXCESS ACID (FLUX) FROM THE WORK AREA.

NOTE: APPLY PRIMER TO ALL SURFACES WHICH WILL RECEIVE PRESSURE SENSITIVE OUTER SEAM FLASHING PRIOR TO APPLICATION.

NOTE: WHEN OUTSIDE DIAMETER OF THE PIPE EXCEEDS 18", ADDITIONAL FIELD MEMBRANE SECUREMENT REQUIRED. REFER TO MANUFACTURER'S DETAILS.



HOT STACK



NOTE: EXISTING FLANGED SLEEVE COMPONENTS DETERMINED TO BE IN GOOD CONDITION AND FREE OF BITUMINOUS CONTAMINATION MAY BE CONSIDERED FOR RE-USE.

DETAIL 4 - TUBULAR PENETRATION FLASHING

SCALE: NONE

BTA BUILDING TECHNOLOGY ASSOCIATES

Building Technology Associates, Inc.
21850 Greenfield Rd. Oak Park, MI 48237-2507

STATE OF MICHIGAN
SCOTT R. HOFFMAN
ENGINEER
No. 52575
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	BY	PROJECT ARCH ENGINEERING APPROVAL	APPROVAL
3				
2				
1	4/4/2023			

REVISIONS

KEY PLAN

IF THIS SHEET IS NOT 24 BY 36 INCHES, THEN USE GRAPHIC SCALE ACCORDINGLY.

Bay Arenac ISD™

BAY ARENAC ISD
2023 ROOFING REPLACEMENT

LLC BAY

1435 W. CENTER RD
ESSEXVILLE, MI. 48708

TUBULAR PENETRATION FLASHING

DETAIL #	
4	
DRAFTER: AB	DESIGNER: MG
DATE: 3/17/23	CHECKED BY: BB

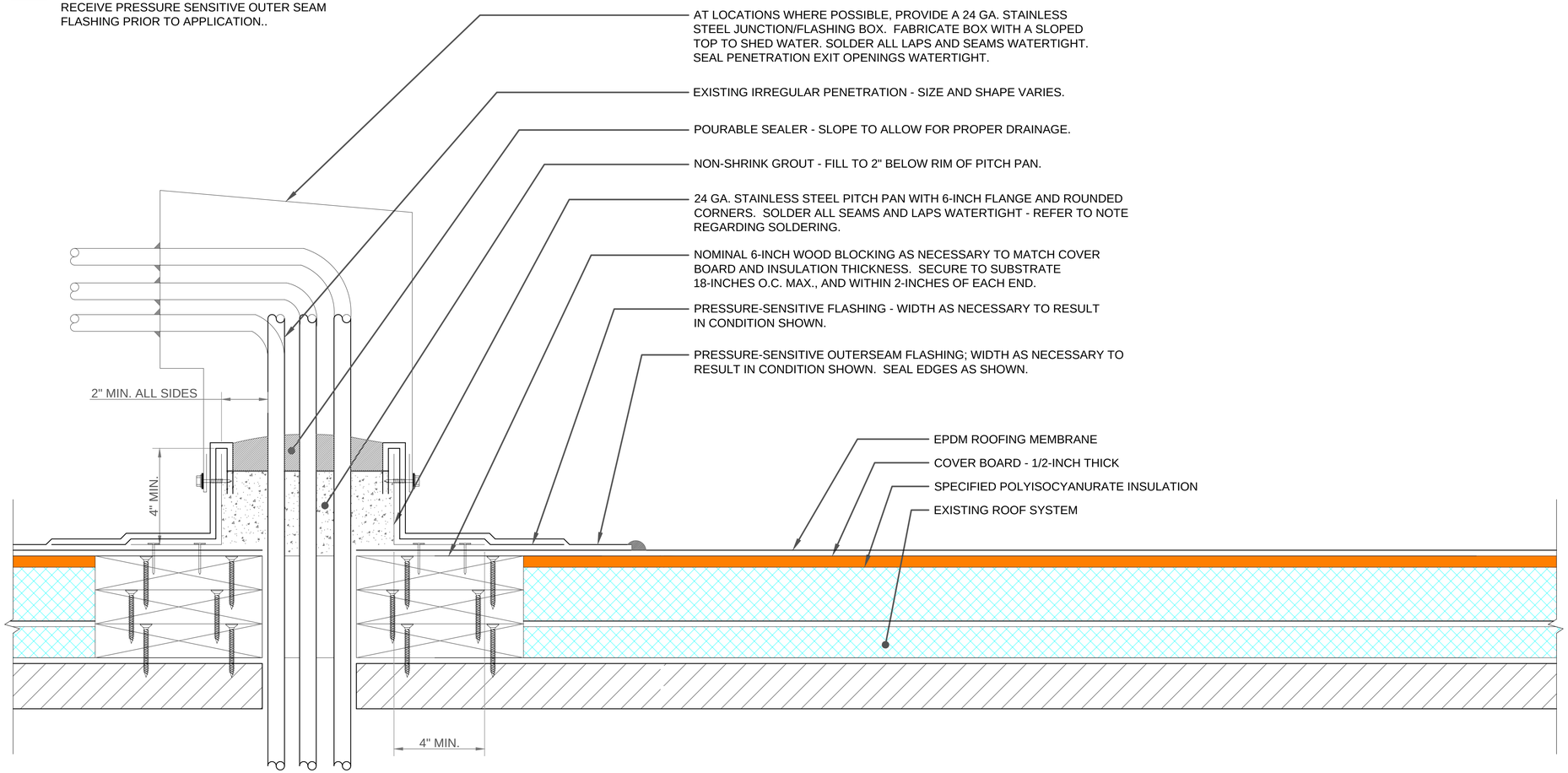
SHEET NO.

ADDENDUM 1
4/4/2023

NOTE: DO NOT USE PITCH PANS AT TUBULAR PENETRATIONS WITHOUT PRIOR OWNER APPROVAL.

NOTE: PRIOR TO SOLDERING OF STAINLESS STEEL, CLEAN WORK AREA USING SOLVENTS AND WIRE BRUSH; REMOVING DIRT, OIL, GREASE, AND OTHER CONTAMINANTS FROM THE WORK AREA. TIN THE WORK AREA BY APPLYING ACID (FLUX). PERFORM SOLDERING WORK. AFTER COMPLETION OF WORK, REMOVE EXCESS ACID (FLUX) FROM THE WORK AREA.

NOTE: APPLY PRIMER TO ALL SURFACES WHICH WILL RECEIVE PRESSURE SENSITIVE OUTER SEAM FLASHING PRIOR TO APPLICATION..



DETAIL 5 - PITCH PAN FLASHING

SCALE: NONE

BTA
BUILDING TECHNOLOGY ASSOCIATES
Building Technology Associates, Inc.
21850 Greenfield Rd. Oak Park, MI 48237-2507

STATE OF MICHIGAN
SCOTT R. HOFFMAN
ENGINEER
No. 52575
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	BY	PROJECT ARCH ENGINEERING APPROVAL	APPROVAL
3				
2				
1	4/4/2023			

REVISIONS

KEY PLAN

IF THIS SHEET IS NOT 24 BY 36 INCHES, THEN USE GRAPHIC SCALE ACCORDINGLY.

Bay Arenac ISD

BAY ARENAC ISD
2023 ROOFING REPLACEMENT

LLC BAY

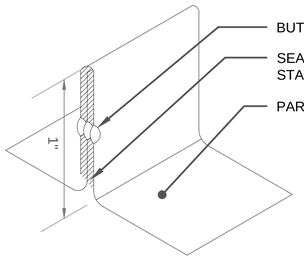
1435 W. CENTER RD
ESSEXVILLE, MI. 48708

PITCH PAN FLASHING

DETAIL #	
5	
DRAFTER: AB	DESIGNER: MG
DATE: 3/17/23	CHECKED BY: BB

SHEET NO.
8 OF 11

ADDENDUM 1
4/4/2023



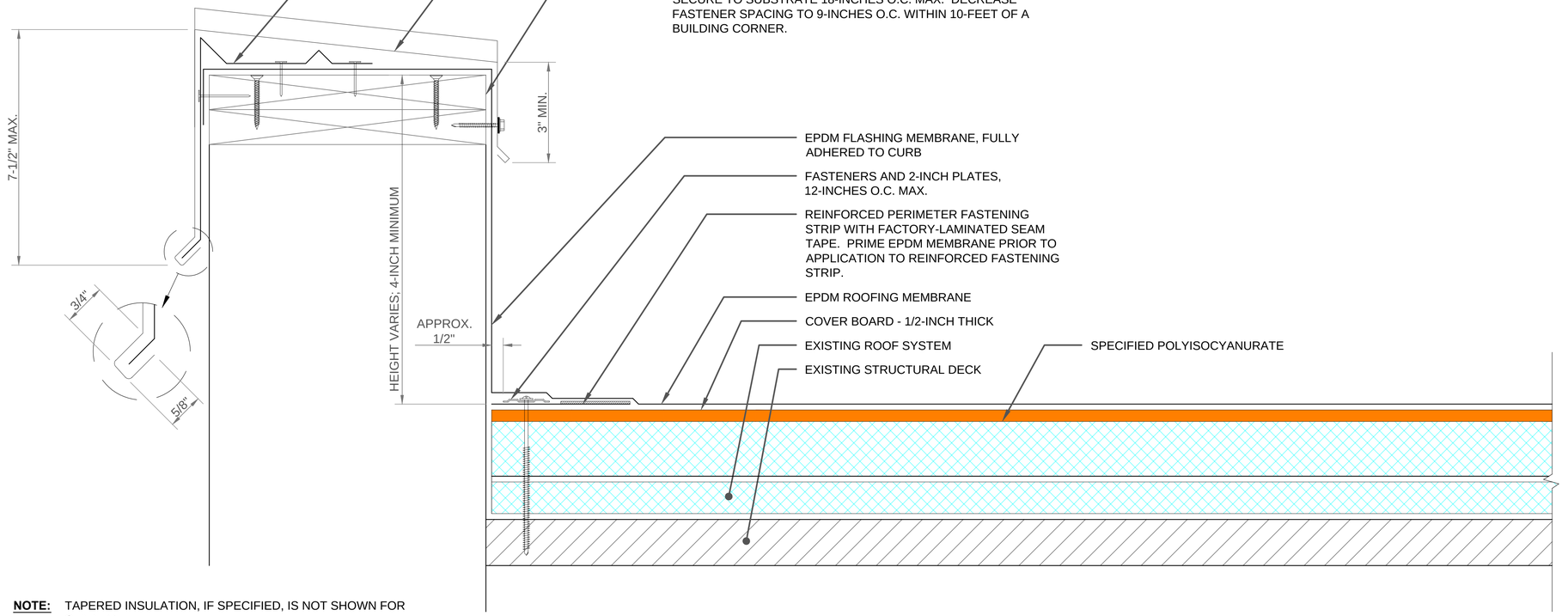
BUTTON PUNCH

SEALANT - SEAL BOTH ENDS OF STANDING SEAM

PARAPET WALL STEEL COPING CAP

COPING CAP JOINT PROFILE

SINGLE-LOCK STANDING SEAM; FOR USE WHERE ADJACENT COPING CAPS ARE TO BE JOINED, BUTTON PUNCH.



22 GA. GALV. STEEL CONTINUOUS CLEAT. FABRICATE AS SHOWN TO CREATE 1/2-INCH PER FOOT SLOPE TOWARD INNER FACE. SECURE HORIZONTAL FLANGE AND VERTICAL FACE WITH RING SHANK COATED NAILS 12-INCHES O.C. MAX. DECREASE FASTENER SPACING TO 6-INCHES O.C. WITHIN 10-FEET OF A BUILDING CORNER.

PREFINISHED 24 GA. GALV. STEEL COPING CAP. HOOK OUTSIDE FACE TO CONTINUOUS CLEAT, AND SECURE INNER FACE WITH GASKETED FASTENERS APPROPRIATE FOR THE SUBSTRATE ENCOUNTERED 18-INCHES O.C. MAX., AND WITHIN 2-INCHES OF EACH END. JOIN ADJACENT CAP SECTIONS USING 1-INCH HIGH STANDING SEAMS.

NOMINAL 2-INCH THICK WOOD BLOCKING - WIDTH AS NECESSARY TO MATCH EXISTING PARAPET WALL WIDTH. THICKNESS AS NECESSARY TO ACHIEVE 4-INCH MINIMUM FLASHING HEIGHT. SECURE TO SUBSTRATE 18-INCHES O.C. MAX. DECREASE FASTENER SPACING TO 9-INCHES O.C. WITHIN 10-FEET OF A BUILDING CORNER.

EPDM FLASHING MEMBRANE, FULLY ADHERED TO CURB

FASTENERS AND 2-INCH PLATES, 12-INCHES O.C. MAX.

REINFORCED PERIMETER FASTENING STRIP WITH FACTORY-LAMINATED SEAM TAPE. PRIME EPDM MEMBRANE PRIOR TO APPLICATION TO REINFORCED FASTENING STRIP.

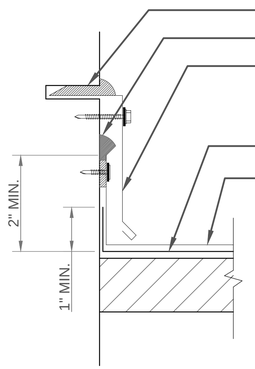
EPDM ROOFING MEMBRANE

COVER BOARD - 1/2-INCH THICK

EXISTING ROOF SYSTEM

EXISTING STRUCTURAL DECK

SPECIFIED POLYISOCYANURATE



CUT REGLET INTO WALL

SEALANT

PREFINISHED 24 GA. GALV. STEEL REGLETED COUNTERFLASHING. SECURE TO SUBSTRATE WITH GASKETED FASTENERS 12-INCHES O.C., MIN. 2 FASTENERS.

FULLY-ADHERED EPDM FLASHING MEMBRANE

PREFINISHED 24 GA. GALV. STEEL PARAPET CAP. TURN UP WALL 2-INCHES, MIN., INSTALL BUTYL TAPE BEHIND TURN-UP, AND SECURE.

COPING CAP TERMINATION AT END WALLS

FOR USE WHERE PARAPET WALLS AND RELATED COPING CAPS TERMINATE INTO VERTICAL WALLS.

NOTE: TAPERED INSULATION, IF SPECIFIED, IS NOT SHOWN FOR CLARITY.

NOTE: EXTEND EPDM ROOFING MEMBRANE OVER AND DOWN PERIMETER EDGE AS SHOWN. APPLY SEALANT TO BACK SIDE OF MEMBRANE AND SECURE WITH ROOFING NAILS AFFIXED WITH 1" DIAMETER METAL CAPS 12" O.C. MAX.

NOTE: AT ROOF CURB/WALL FLASHING HEIGHTS GREATER THAN 24-INCHES: PROVIDE INTERMEDIATE SECUREMENT PER THE REQUIREMENTS AND RECOMMENDATIONS OF THE EPDM ROOFING MEMBRANE MANUFACTURER.

NOTE: PRIOR TO INSTALLATION OF NEW FLASHING AND COUNTERFLASHING, INSPECT EXISTING WALLS FOR THE PRESENCE OF MASONRY WEEPS AND OTHER WALL DRAINAGE MECHANISMS. DO NOT COVER WEEPS, OR IMPEDE THE ABILITY OF MOISTURE TO EXIT WALL SYSTEMS.

NOTE: INSTALL INSIDE AND OUTSIDE FLASHING CORNERS FOLLOWING THE RECOMMENDATIONS AND REQUIREMENTS OF THE ROOFING MEMBRANE MANUFACTURER. PROVIDE "T-JOINT COVERS" AT THE BASE OF THE CURB AT FLASHING PIECE INTERSECTIONS.

DETAIL 6 - PARAPET WALL FLASHING

SCALE: NONE

BTA
BUILDING TECHNOLOGY ASSOCIATES

Building Technology Associates, Inc.
21850 Greenfield Rd. Oak Park, MI 48237-2507

STATE OF MICHIGAN
SCOTT R. HOFFMAN
ENGINEER
No. 52575
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	BY	PROJECT ARCH ENGINEERING APPROVAL	APPROVAL
3				
2				
1	4/4/2023			

REVISIONS

KEY PLAN

IF THIS SHEET IS NOT 24 BY 36 INCHES, THEN USE GRAPHIC SCALE ACCORDINGLY.

Bay Arenac ISD

BAY ARENAC ISD
2023 ROOFING REPLACEMENT

LLC BAY

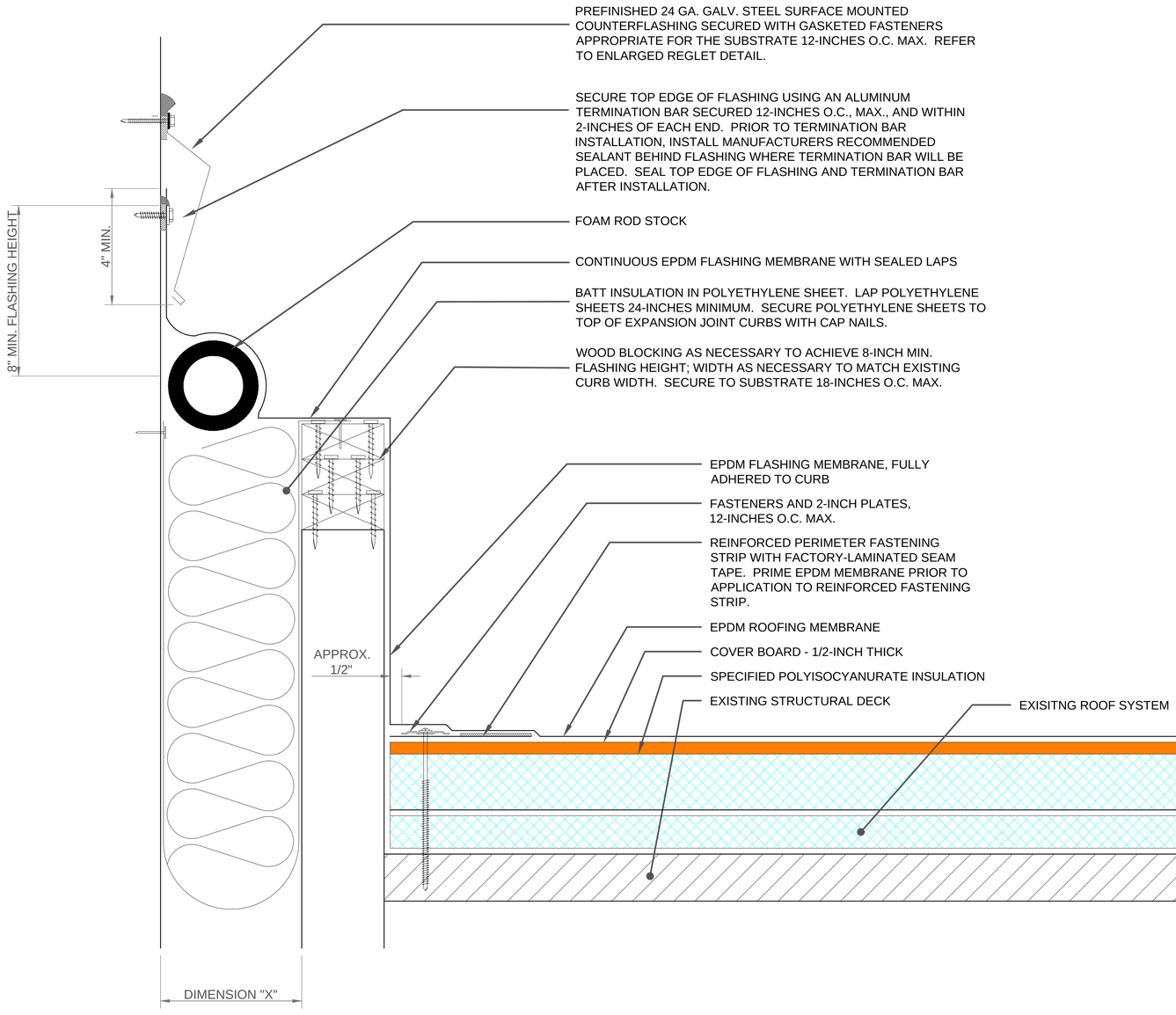
1435 W. CENTER RD
ESSEXVILLE, MI. 48708

PARAPET WALL FLASHING

DETAIL #	
6	
DRAFTER: AB	DESIGNER: MG
DATE: 3/17/23	CHECKED BY: BB

SHEET NO.
9 OF 11

ADDENDUM 1
4/4/2023



NOTE: AT ROOF CURB/WALL FLASHING HEIGHTS GREATER THAN 24-INCHES: PROVIDE INTERMEDIATE SECUREMENT PER THE REQUIREMENTS AND RECOMMENDATIONS OF THE EPDM ROOFING MEMBRANE MANUFACTURER.

NOTE: INSTALL INSIDE AND OUTSIDE FLASHING CORNERS FOLLOWING THE RECOMMENDATIONS AND REQUIREMENTS OF THE ROOFING MEMBRANE MANUFACTURER. PROVIDE "T-JOINT COVERS" AT THE BASE OF THE CURB AT FLASHING PIECE INTERSECTIONS.

NOTE: TAPERED INSULATION, IF SPECIFIED, IS NOT SHOWN FOR CLARITY.

DETAIL 7 - ROOF-TO-WALL EXPANSION JOINT FLASHING

SCALE: NONE

BTA
BUILDING TECHNOLOGY ASSOCIATES
Building Technology Associates, Inc.
21850 Greenfield Rd. Oak Park, MI 48237-2507

STATE OF MICHIGAN
SCOTT R. HOFFMAN
ENGINEER
No. 52575
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	BY	PROJECT ARCH ENGINEERING APPROVAL	APPROVAL
3				
2				
1	4/4/2023			

REVISIONS

KEY PLAN

IF THIS SHEET IS NOT 24 BY 36 INCHES, THEN USE GRAPHIC SCALE ACCORDINGLY.

Bay Arenac ISD

BAY ARENAC ISD
2023 ROOFING REPLACEMENT

LLC BAY

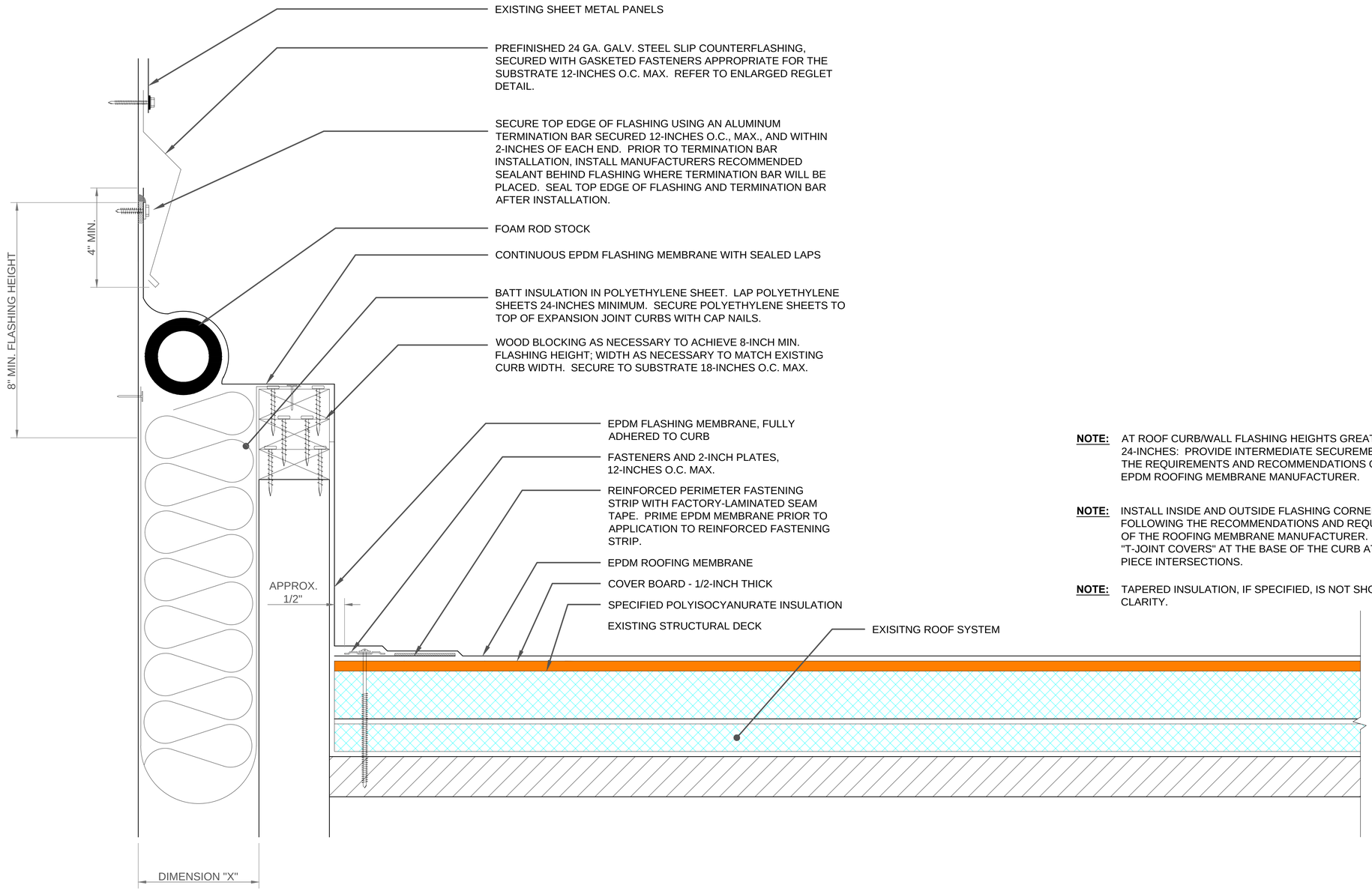
1435 W. CENTER RD
ESSEXVILLE, MI. 48708

ROOF-TO-WALL EXPANSION JOINT FLASHING

DETAIL #	
7	
DRAFTER: AB	DESIGNER: MG
DATE: 3/17/23	CHECKED BY: BB

SHEET NO.
10 OF 11

ADDENDUM 1
4/4/2023



NOTE: AT ROOF CURB/WALL FLASHING HEIGHTS GREATER THAN 24-INCHES: PROVIDE INTERMEDIATE SECUREMENT PER THE REQUIREMENTS AND RECOMMENDATIONS OF THE EPDM ROOFING MEMBRANE MANUFACTURER.

NOTE: INSTALL INSIDE AND OUTSIDE FLASHING CORNERS FOLLOWING THE RECOMMENDATIONS AND REQUIREMENTS OF THE ROOFING MEMBRANE MANUFACTURER. PROVIDE "T-JOINT COVERS" AT THE BASE OF THE CURB AT FLASHING PIECE INTERSECTIONS.

NOTE: TAPERED INSULATION, IF SPECIFIED, IS NOT SHOWN FOR CLARITY.

DETAIL 8 - ROOF-TO-WALL EXPANSION JOINT FLASHING

SCALE: NONE

BTA
BUILDING TECHNOLOGY ASSOCIATES
Building Technology Associates, Inc.
21850 Greenfield Rd. Oak Park, MI 48237-2507

STATE OF MICHIGAN
SCOTT R. HOFFMAN
ENGINEER
No. 52575
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	BY	PROJECT ARCH ENGINEERING APPROVAL	APPROVAL
3				
2				
1	4/4/2023			

REVISIONS

KEY PLAN

IF THIS SHEET IS NOT 24 BY 36 INCHES, THEN USE GRAPHIC SCALE ACCORDINGLY.

Bay Arenac ISD

BAY ARENAC ISD
2023 ROOFING REPLACEMENT

LLC BAY

1435 W. CENTER RD
ESSEXVILLE, MI. 48708

ROOF-TO-WALL EXPANSION JOINT FLASHING

DETAIL #	
8	
DRAFTER: AB	DESIGNER: MG
DATE: 3/17/23	CHECKED BY: BB

SHEET NO.
11 OF 11