



SHOP DRAWING SUBMITTAL

INSTALLATION SUPPORT PACKAGE *8 1/2" x 11" spiral bound attachment*

- (SC) Panel System Components Tab
- (PS) Panel System Installation Support Tab
- (RA) Roof Application Support Tab
- (FT) Field Transition Support Tab

ARCHITECTURAL REVIEW

CUSTOM ENGINEERED 11" X 17" SHOP DRAWINGS
DEVELOPED SPECIFICALLY FOR THIS PROJECT'S
DESIGN CONCEPT & REVIEW

- START AT THE YELLOW SECTION TAB •

Provided by:

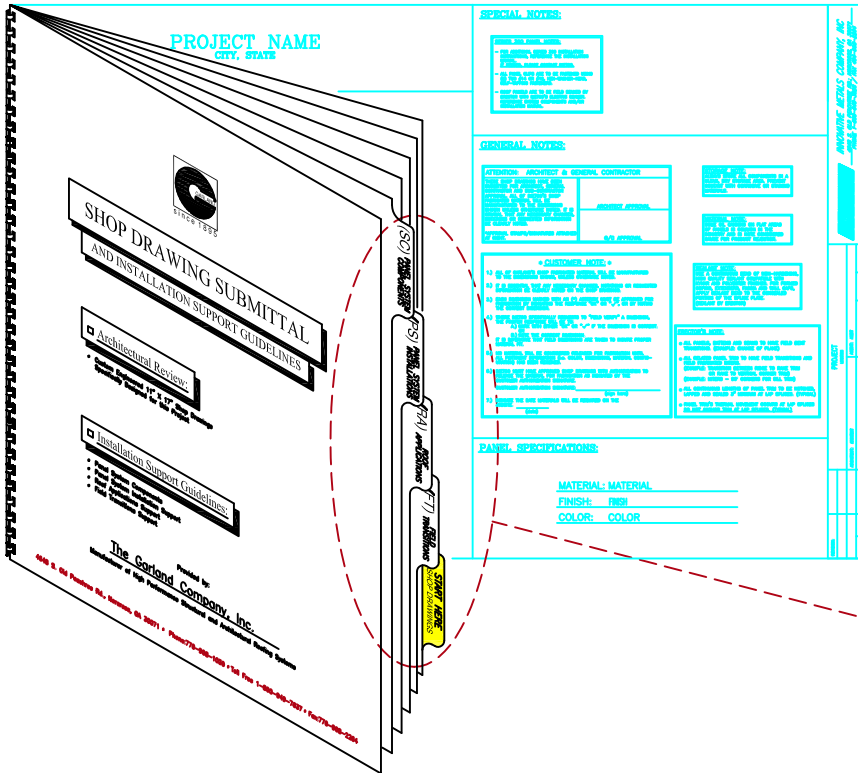
The Garland Company, Inc.

Manufacturer of High Performance Roofing and Building Envelope Solutions



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GETTING STARTED!



Architectural Review:

ARCHITECT/INSTALLER REVIEW:
 START AT THE YELLOW SECTION TAB!
 REVIEW THE CUSTOM ENGINEERED,
 PROJECT SPECIFIC 11" X 17" SHOP DRAWINGS
 FOR ARCHITECTURAL APPROVAL.

Installation Review:

INSTALLATION GUIDELINES:
 THE 8 1/2" X 11" DETAILS ARE PROVIDED FOR
 INSTALLATION USE ONLY AND NOT REQUIRED FOR
 ARCHITECTURAL REVIEW.

DURING SHOP DRAWING REVIEW:
 "QUICK REFERENCE TABS" WILL REFER YOU TO THE
 APPROPRIATE SUPPORTING 8 1/2" X 11"
 INSTALLATION DETAIL OR COMPONENTS AVAILABLE
 BY IMETCO.

(SC) Panel System Components

This section contains information on available parts, sealants, fasteners, snow guards and other components available from Innovative Metals.

(PS) Panel System Installations Support

This section contains supporting isometric assembly details. Not all of these details apply to your project! Your shop drawings will refer you to the appropriate supporting drawing(s).

(RA) Roof Applications Support

This section contains supporting isometric details such as trim laps, curbs, pipe boots, gutter and downspouts. Your roof plan will refer you to the appropriate supporting drawing(s).

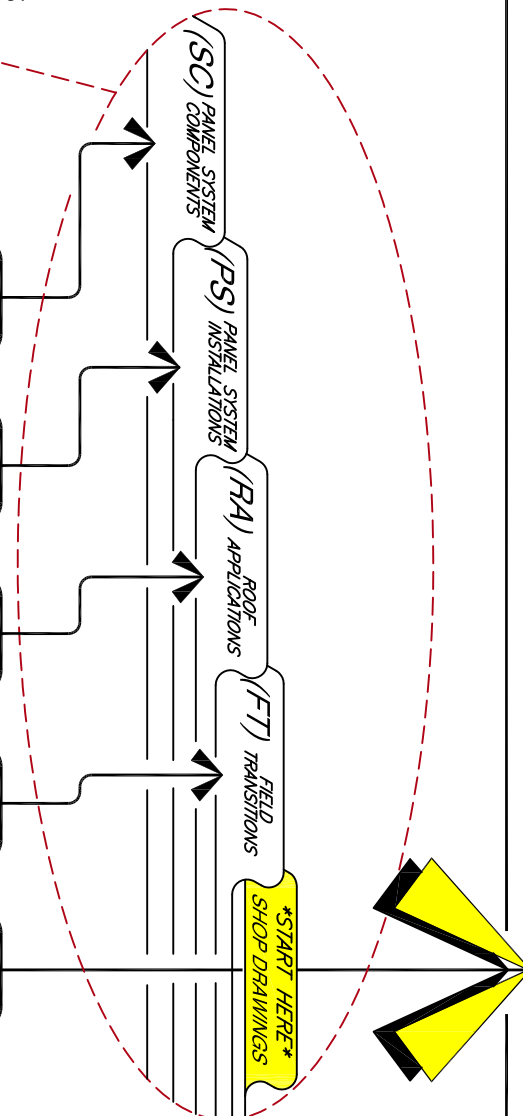
(FT) Field Transitions Support

This section contains supporting isometric transition details you may encounter on your project. These details will NOT be referenced in your shop drawings, but are provided for your general use.



START HERE!
 Shop Drawings

REVIEW THE CUSTOM 11" X 17" SHOP DRAWINGS!
 During review, look for "QUICK REFERENCE TAB" symbols. They will refer you to Supporting Installation Details or available IMETCO components.





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Section **SC**

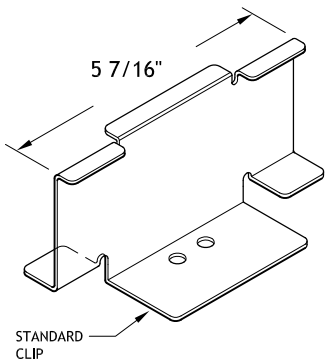
PANEL SYSTEM COMPONENTS



The following series of details is provided as a supplement to the 11" x 17" shop drawings. **ALWAYS start with your shop drawings!** They will govern specific component assemblies.

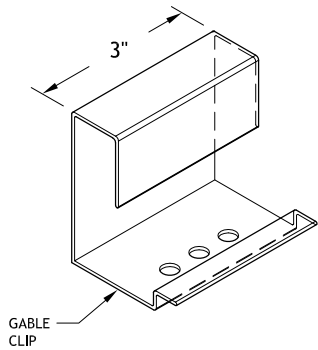
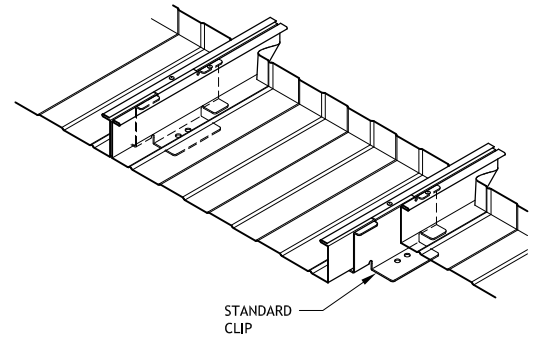
SECTION CONTENTS

DETAIL:	PAGE NO:
Panel Clips and Bearing Plate	1
Head Closure, Hip Closure and Foam Closures	2
Trim Components, Vent Strip and Hat Channel	3
Sealants, Adhered Snow Guard and Butyl Tape	4
Rivets, Drill Bits and Touch-up Paint	5
Pan-end Tool	6
Hand Crimper Tool	7
Electric Seamer Tool	8
Panel Clip Shims	9



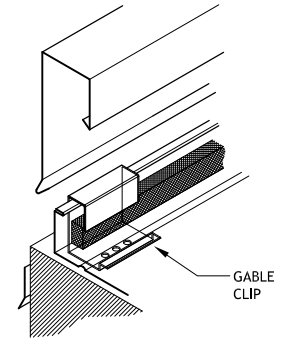
STANDARD PANEL CLIP

- ◆ ONE-PIECE DESIGN ALLOWING UNLIMITED THERMAL MOVEMENT.
- ◆ AVAILABLE IN 16 GA. GALVANIZED OR 16 GA. STAINLESS STEEL.
- ◆ EXAMPLE @ RIGHT. SEE SHOP DRAWINGS FOR COMPLETE ASSEMBLY REQUIREMENTS.

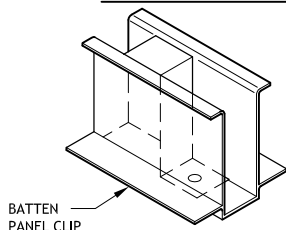


GABLE CLIP

- ◆ ONE-PIECE DESIGN ALLOWING UNLIMITED THERMAL MOVEMENT.
- ◆ ALL GABLE CLIPS ARE INSTALLED 24" o.c. MAX.
- ◆ AVAILABLE IN 16 GA. GALVANIZED OR 16 GA. STAINLESS STEEL, OR ALUMINUM.
- ◆ EXAMPLE @ RIGHT. SEE SHOP DRAWINGS FOR COMPLETE ASSEMBLY REQUIREMENTS.

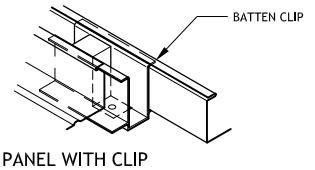


EDGE DETAIL

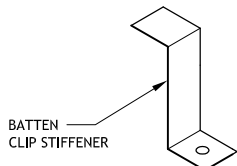


BATTEN CLIP

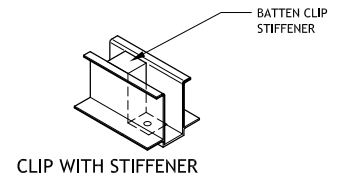
- ◆ BATTEN CLIP IS A ONE-PIECE DESIGN ALLOWING UNLIMITED THERMAL MOVEMENT.
- ◆ AVAILABLE IN 0.090" EXTRUDED ALUMINUM.



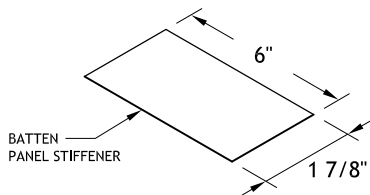
PANEL WITH CLIP



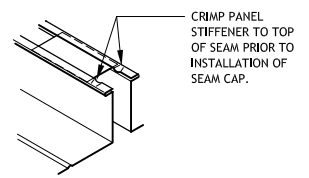
- ◆ BATTEN CLIP STIFFENER IS PART OF THE BATTEN CLIP ASSEMBLY.



CLIP WITH STIFFENER



- ◆ BATTEN PANEL STIFFENER IS PART OF THE BATTEN CLIP ASSEMBLY.

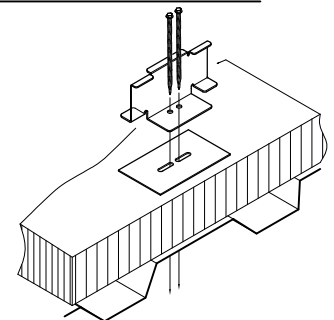
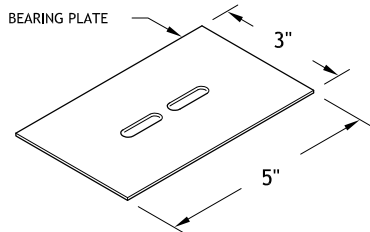


PANEL WITH STIFFENER

- ◆ PROVIDED IN 10'-0" LENGTHS. INSTALLER CUT TO 6" PIECES. INSTALL MIDWAY BETWEEN CLIPS AS SHOWN @ RIGHT.

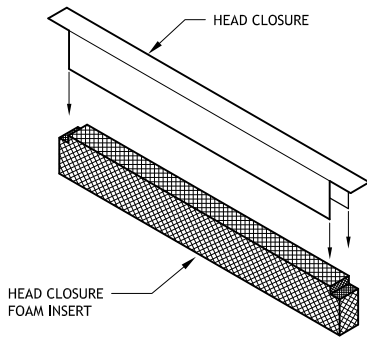
BEARING PLATE

- ◆ PROVIDES EVEN LOAD DISTRIBUTION FOR PANEL CLIPS.
- ◆ MADE OF 16 GA. STEEL. SLOTTED HOLES PROVIDE USE WITH SERIES 300 PANEL CLIPS.
- ◆ EXAMPLE @ RIGHT. SEE SHOP DRAWINGS FOR OTHER APPLICATIONS AND COMPLETE ASSEMBLY REQUIREMENTS.



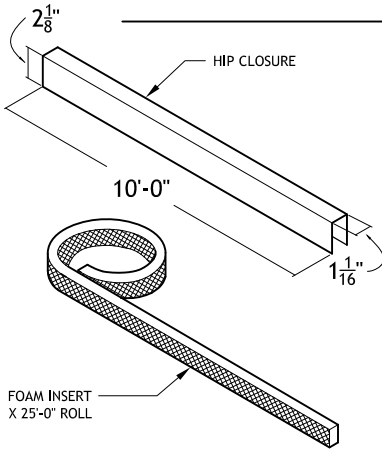
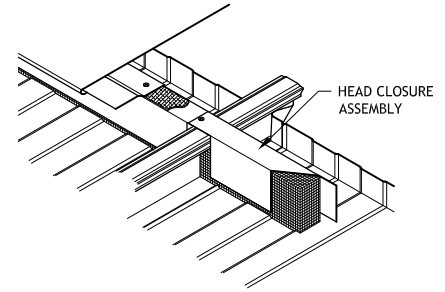
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Panel Clips
 and Bearing Plate
 (SC) PANEL SYSTEM COMPONENTS



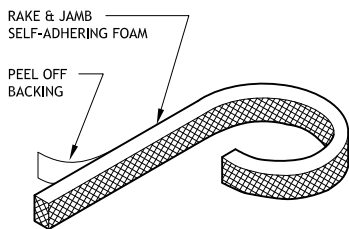
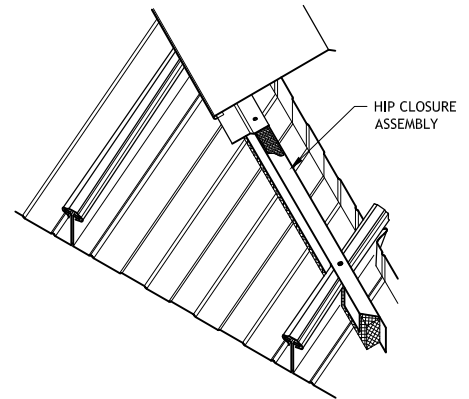
HEAD CLOSURE ASSEMBLY

- ◆ FACTORY FORMED TO INDIVIDUAL PANEL WIDTHS.
- ◆ SOLD BY MANUFACTURER AS AN ASSEMBLY WHICH INCLUDES BOTH COMPONENTS SHOWN.
- ◆ EXAMPLE @ RIGHT. SEE SHOP DRAWINGS FOR COMPLETE ASSEMBLY REQUIREMENTS.



HIP CLOSURE ASSEMBLY

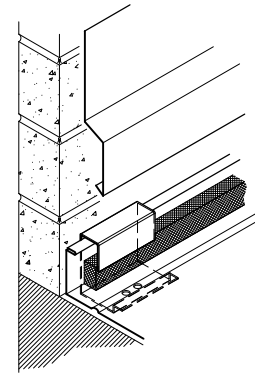
- ◆ PROVIDED IN 10'-0" LENGTHS. INSTALLER TO NOTCH IN FIELD TO FIT SKEWED PANEL PROFILE.
- ◆ NEOPRENE INSERT IS PROVIDED IN 25'-0" ROLLS. INSTALLER TO NOTCH IN FIELD TO FIT SKEWED PANEL PROFILE.
- ◆ EXAMPLE @ RIGHT. SEE SHOP DRAWINGS FOR COMPLETE ASSEMBLY REQUIREMENTS.



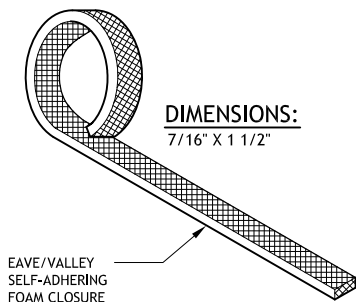
DIMENSIONS:
5/8" X 1 1/16"

SELF-ADHERING FOAM CLOSURE

- ◆ PROVIDES ADDITIONAL PROTECTION AGAINST WATER INFILTRATION.
- ◆ SOLD BY MANUFACTURER IN ROLLS OF 50'-0".
- ◆ EXAMPLE @ RIGHT. SEE SHOP DRAWINGS FOR OTHER LOCATIONS AND COMPLETE ASSEMBLY REQUIREMENTS.



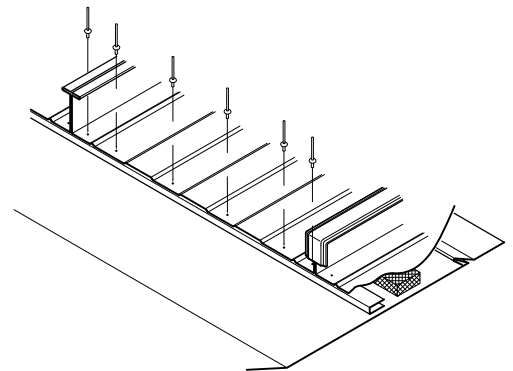
ROLLS IDENTIFIED WITH A GREEN TAPE



DIMENSIONS:
7/16" X 1 1/2"

FOAM CLOSURE

- ◆ PROVIDES ADDITIONAL PROTECTION AGAINST WATER INFILTRATION. USE WITH BUTYL SEALANT.
- ◆ SOLD BY MANUFACTURER IN ROLLS OF 50'-0".
- ◆ EXAMPLE @ RIGHT. SEE SHOP DRAWINGS FOR OTHER LOCATIONS AND COMPLETE ASSEMBLY REQUIREMENTS.

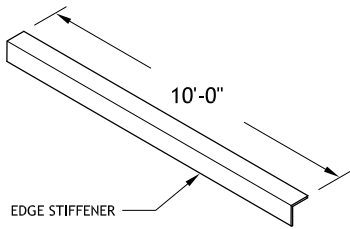


ROLLS IDENTIFIED WITH A RED TAPE



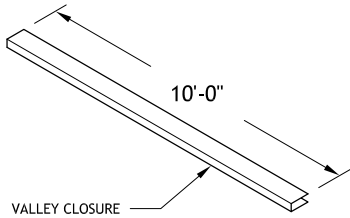
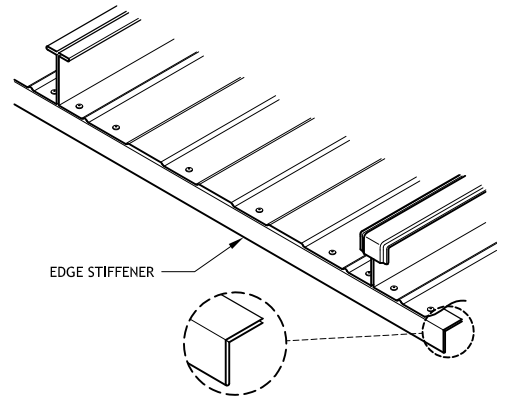
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Head Closure, Hip Closure, Rake/Jamb
Closure & Eave/Valley Closure
(SC) PANEL SYSTEM COMPONENTS



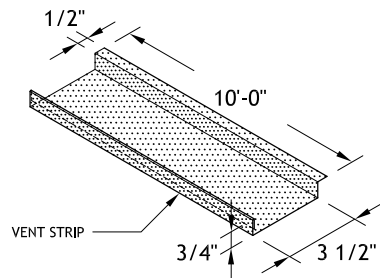
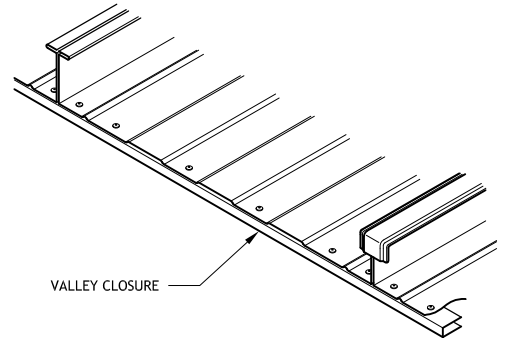
EDGE STIFFENER

- ◆ FORMED TO 1" x 1" DIMENSION.
- ◆ DOUBLE MATERIAL THICKNESS TRIM COMPONENT.
- ◆ SOLD BY MANUFACTURER IN 10'-0" LENGTHS.
- ◆ EXAMPLE @ RIGHT. SEE SHOP DRAWINGS FOR COMPLETE ASSEMBLY REQUIREMENTS.



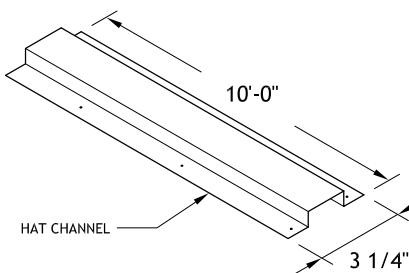
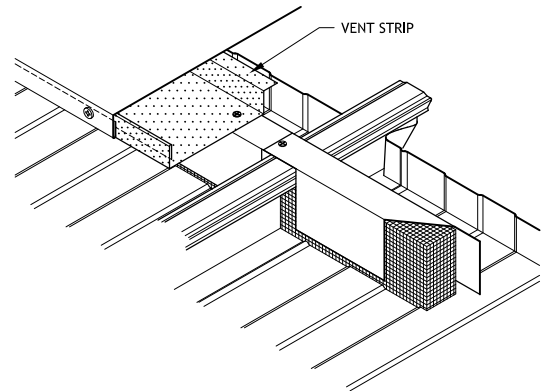
VALLEY CLOSURE

- ◆ U-SHAPED TRIM COMPONENT (13/16" x 3/8" x 13/16").
- ◆ SOLD BY MANUFACTURER IN 10'-0" LENGTHS.
- ◆ EXAMPLE @ RIGHT. SEE SHOP DRAWINGS FOR OTHER LOCATIONS AND COMPLETE ASSEMBLY REQUIREMENTS.



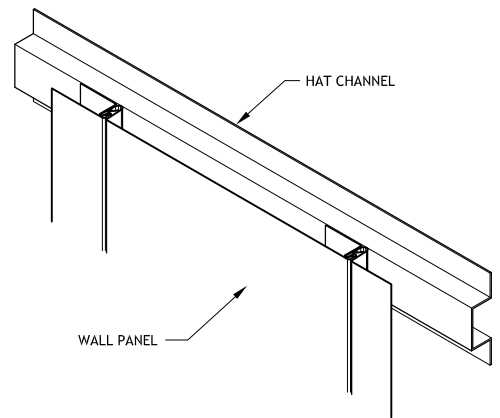
VENT STRIP

- ◆ PERFORATED, STAINLESS STEEL COMPONENT.
- ◆ SOLD BY MANUFACTURER IN 10'-0" LENGTHS.
- ◆ EXAMPLE @ RIGHT. SEE SHOP DRAWINGS FOR OTHER LOCATIONS AND COMPLETE ASSEMBLY REQUIREMENTS.



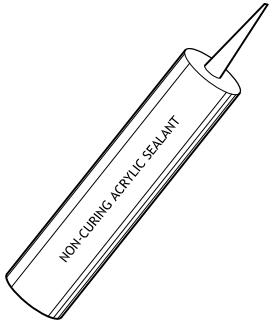
HAT CHANNEL

- ◆ 3/4", 1", & 1 1/2" HIGH COMPONENTS SOLD IN 10'-0" LENGTHS.
- ◆ MADE OF 22 GAUGE STEEL WITH PRE-PUNCHED HOLES @ 6" o.c.
- ◆ EXAMPLE @ RIGHT. SEE SHOP DRAWINGS FOR OTHER APPLICATIONS AND COMPLETE ASSEMBLY REQUIREMENTS.



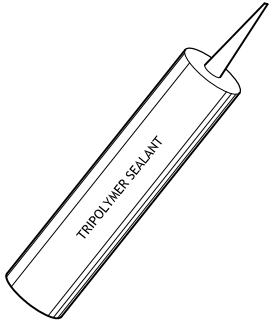
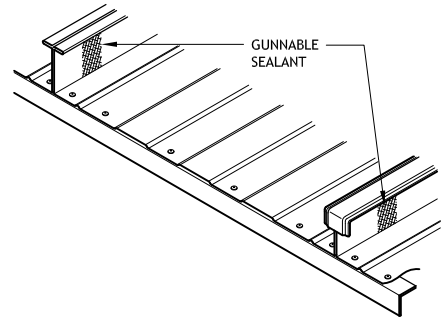
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Trim Components,
 Vent Strip & Hat Channel
 (SC) PANEL SYSTEM COMPONENTS



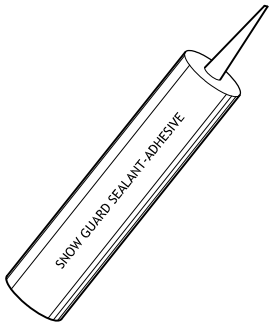
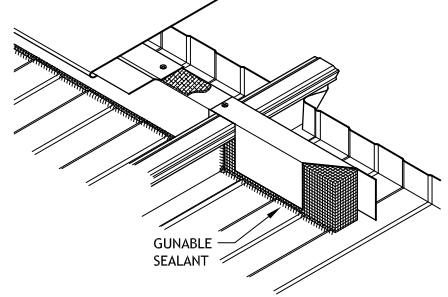
ACRYLIC SEALANT

- ◆ NON-CURING ACRYLIC SEALANT IS INTENDED TO BE APPLIED AS REQUIRED TO 'NON-EXPOSED' CONDITIONS.
- ◆ EXAMPLE @ RIGHT. SEE SHOP DRAWINGS FOR OTHER LOCATIONS AND COMPLETE ASSEMBLY REQUIREMENTS.



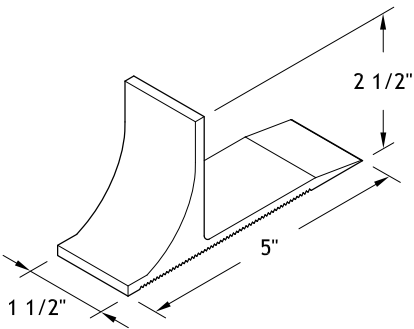
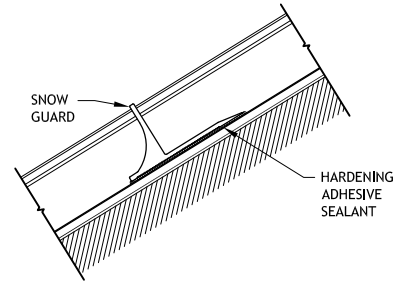
TRIPOLYMER SEALANT

- ◆ INTENDED TO BE APPLIED AS REQUIRED TO 'EXPOSED' CONDITIONS.
- ◆ SEALANT BY IMETCO IS CLEAR.
- ◆ EXAMPLE @ RIGHT. SEE SHOP DRAWINGS FOR OTHER LOCATIONS AND COMPLETE ASSEMBLY REQUIREMENTS.



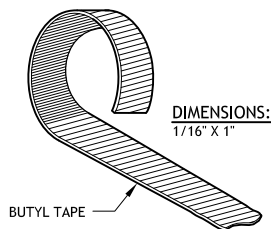
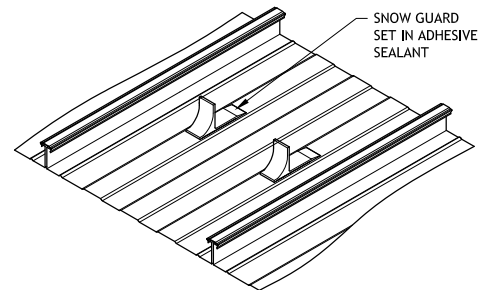
ADHESIVE/BONDING SEALANT

- ◆ INTENDED TO BE USED FOR THE ATTACHMENT OF SNOW GUARDS.
- ◆ SEALANT BY IMETCO IS CLEAR. TOUCH-UP PAINT AS REQUIRED.



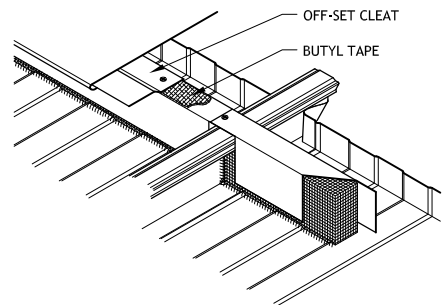
SNOW GUARD

- ◆ EXTRUDED ALUMINUM ONE-PIECE COMPONENT.
- ◆ LAYOUT PATTERNS ARE PROJECT SPECIFIC AND WILL BE ILLUSTRATED IN THE SHOP DRAWINGS IF SPECIFIED.



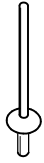
BUTYL TAPE

- ◆ NON-CURING BUTYL SEALANT TAPE IS APPLIED AS REQUIRED TO 'NON-EXPOSED' CONDITIONS.
- ◆ TAPE IS SUPPLIED IN ROLLS OF 45'-0" PER BOX (16 ROLLS PER CASE)
- ◆ EXAMPLE @ RIGHT. SEE SHOP DRAWINGS FOR OTHER LOCATIONS AND COMPLETE ASSEMBLY REQUIREMENTS.



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Sealants, Snow Guards
 & Butyl Tape
 (SC) PANEL SYSTEM COMPONENTS



#44-1/8" STAINLESS STEEL (OPEN-END) RIVETS

- ◆ PRE-PAINTED TO MATCH ROOF PANELS. (EXAMPLE: ATTACHMENT OF PANEL EDGE STIFFENER, FIXING PANEL TO CLIP AND ATTACHING CLOSURE TO PANEL)

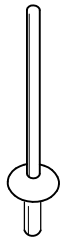
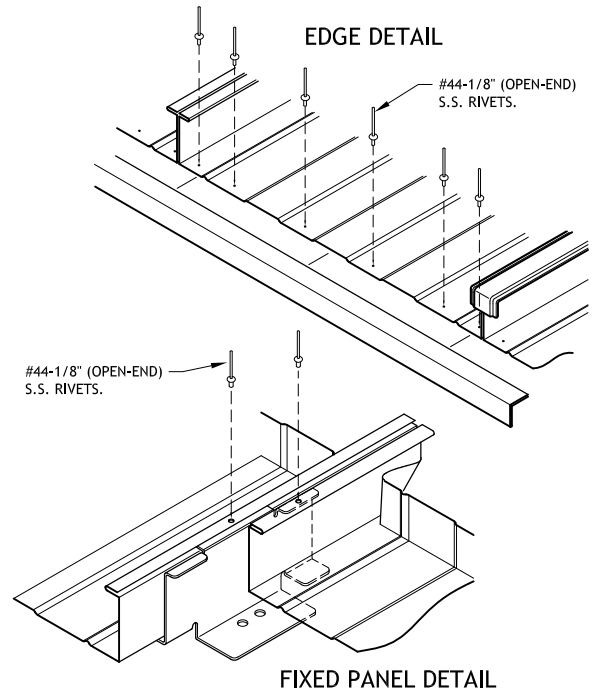


1/8"
DRILL BITS
(6 per pk.)

#44-1/8" STAINLESS STEEL (CLOSED-END) RIVETS

- ◆ MILL FINISH AND WATERTIGHT. (EXAMPLE: GUTTER LAP, TRIM LAP, LONGITUDINAL PANEL SPLICE.)

EXAMPLES @ RIGHT. SEE SHOP DRAWINGS FOR OTHER LOCATIONS AND COMPLETE ASSEMBLY REQUIREMENTS.



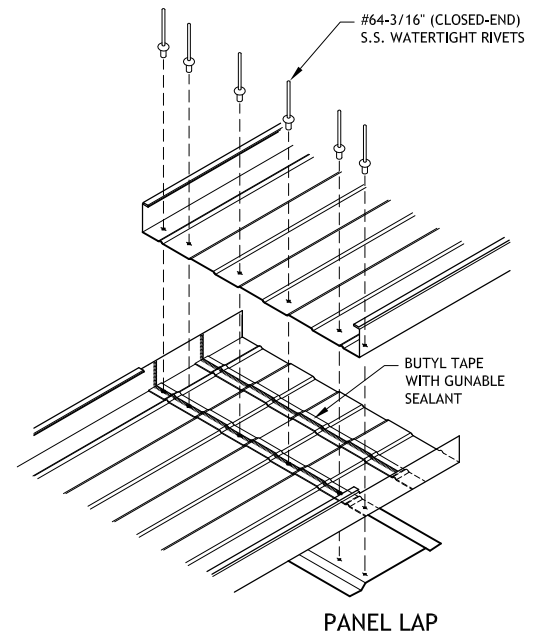
#64-3/16" STAINLESS STEEL (CLOSED-END) RIVETS

- ◆ MILL FINISH AND WATERTIGHT. (EXAMPLE: PANEL LAP ASSEMBLY)
- ◆ RIVETS ARE SUPPLIED MILL FINISH. APPLY TOUCH-UP PAINT TO MATCH AS REQUIRED.

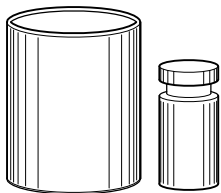


3/16"
DRILL BITS
(6 per pk.)

EXAMPLE @ RIGHT. SEE SHOP DRAWINGS FOR OTHER LOCATIONS AND COMPLETE ASSEMBLY REQUIREMENTS.



TOUCH-UP PAINT



- ◆ 1 QUART
- ◆ 2 OUNCE W' BRUSH

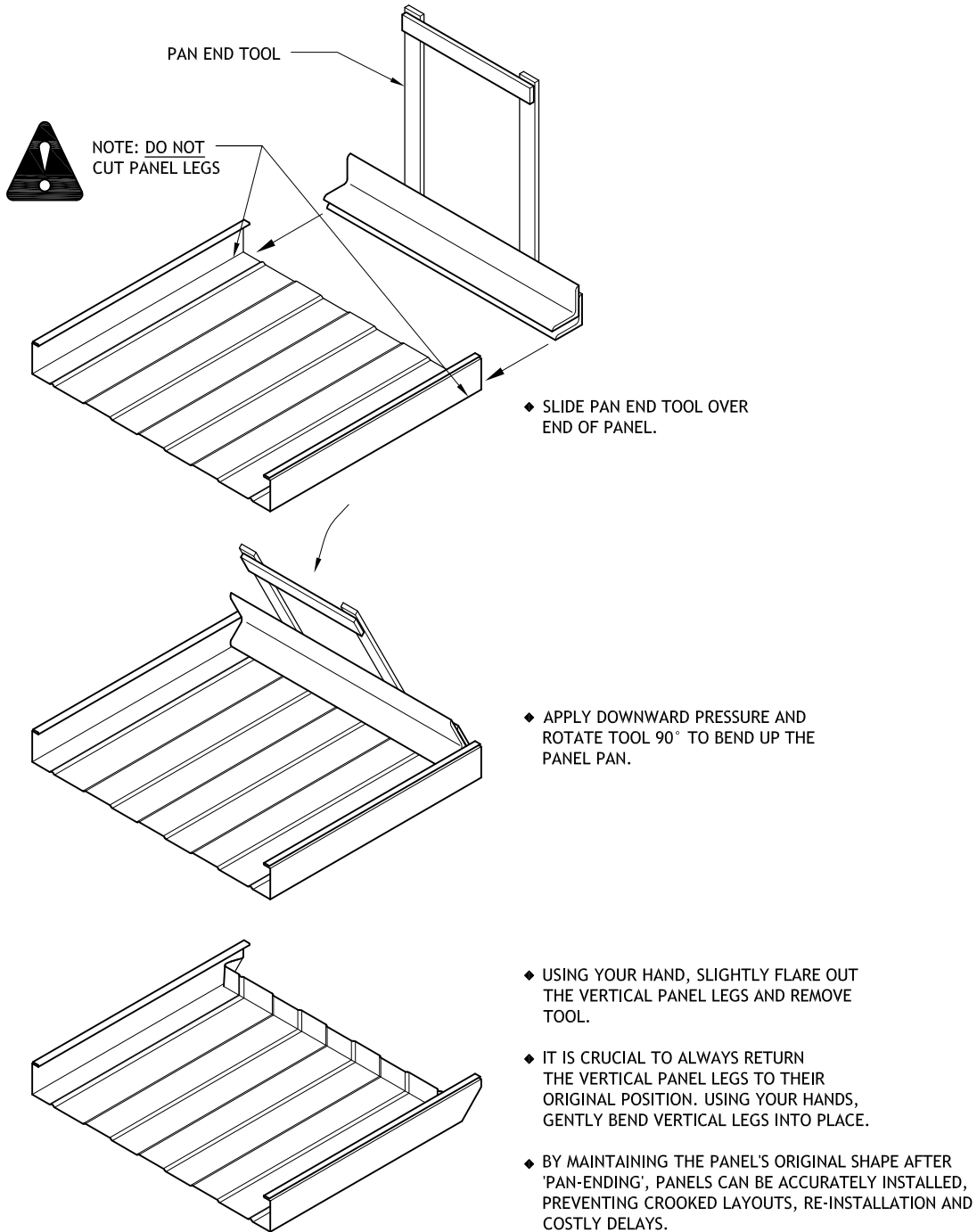
IMPORTANT NOTE:

- ◆ ALWAYS USE RIVETS WITH STAINLESS STEEL BODIES AND MANDRELS. RIVETS SHOULD BE COLORED TO MATCH WHERE REQUIRED.
- ◆ REFERENCE IMETCO'S SHOP DRAWINGS FOR SPECIFIC LOCATIONS AND TYPE OF RIVETS AND/OR OTHER FASTENERS TO USE.
- ◆ CONTACT YOUR LOCAL SALES REPRESENTATIVE TO ORDER YOUR PANEL SYSTEM COMPONENTS.



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Rivets, Drill Bits &
Touch-up Paint
(SC) PANEL SYSTEM COMPONENTS



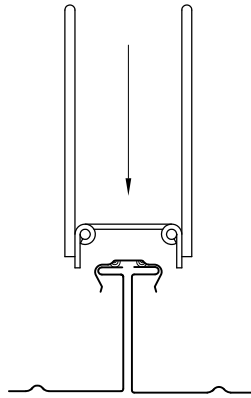
PAN END PANEL

- ◆ STRENGTHENS PANEL EDGE TO WITHSTAND INCREASED PERIMETER UPLIFT PRESSURES AT TOP OF PANEL.
- ◆ PROVIDES BACK-UP PROTECTION AGAINST WATER INFILTRATION.
- ◆ PAN END TOOL IS MADE TO FIT EACH PANEL WIDTH AND IS SOLD BY GARLAND.
- ◆ ORDER AS REQUIRED.

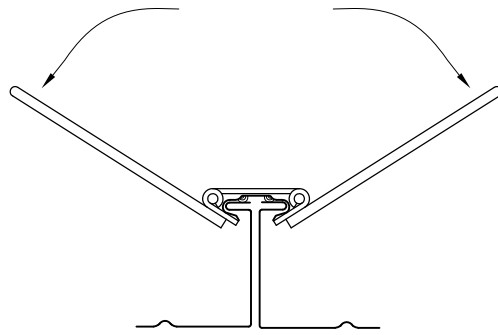


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Pan End Tool
 (SC) PANEL SYSTEM COMPONENTS

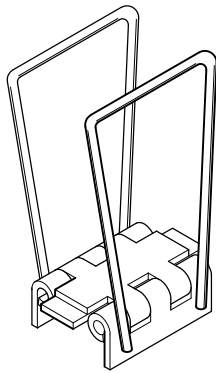


- ◆ PLACE HAND CRIMPER IN OPENED POSITION ON INSTALLED SEAM CAP.

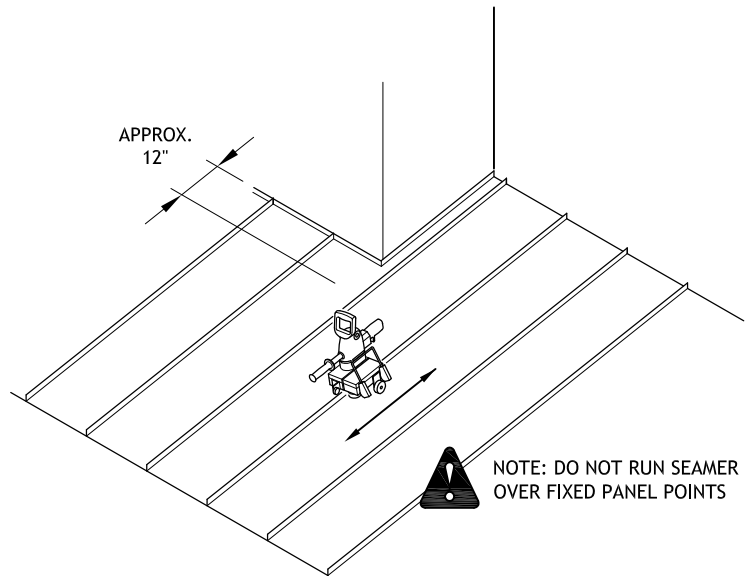


- ◆ PUSH HANDLES APART TO CRIMP CAP.
- ◆ HAND CRIMP SEAM CAP AT 5'-0" o.c. ALONG LENGTH OF SEAM TO HOLD CAP IN PLACE FOR THE ELECTRIC SEAMER.
- ◆ HAND CRIMP ALL FIXED PANEL CONDITIONS

- ◆ ORDER AS REQUIRED.



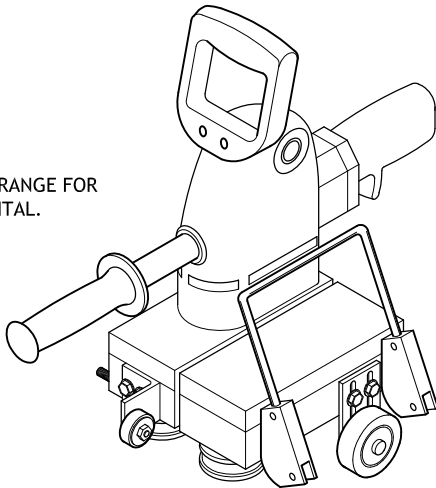
HAND CRIMPER



NOTE: DO NOT RUN SEAMER OVER FIXED PANEL POINTS

USING ELECTRIC SEAMER

- ◆ CALL TO ARRANGE FOR SEAMER RENTAL.



ELECTRIC SEAMER

- ◆ USE HAND CRIMPER TO CRIMP CLOSED APPROXIMATELY 12" OF PANEL CAP TO ALLOW SEAMER TO BE CLAMPED INTO PLACE TO BEGIN RUNNING.
- ◆ RUN ELECTRIC SEAMER UP OR DOWN SEAMS TO CLOSE CAP AROUND PANEL EDGES.
- ◆ USE HAND CRIMPER TO CLOSE SEAMS WHERE ELECTRIC SEAMER CANNOT REACH. (APPROX. 12" FROM VERTICAL SURFACES.)

ALWAYS PUT THE SAFETY OF YOUR WORKERS FIRST. KEEP HANDS AND FINGERS CLEAR FROM SEAMER FORMING ROLLERS. READ ALL OPERATING INSTRUCTIONS PRIOR TO USE.

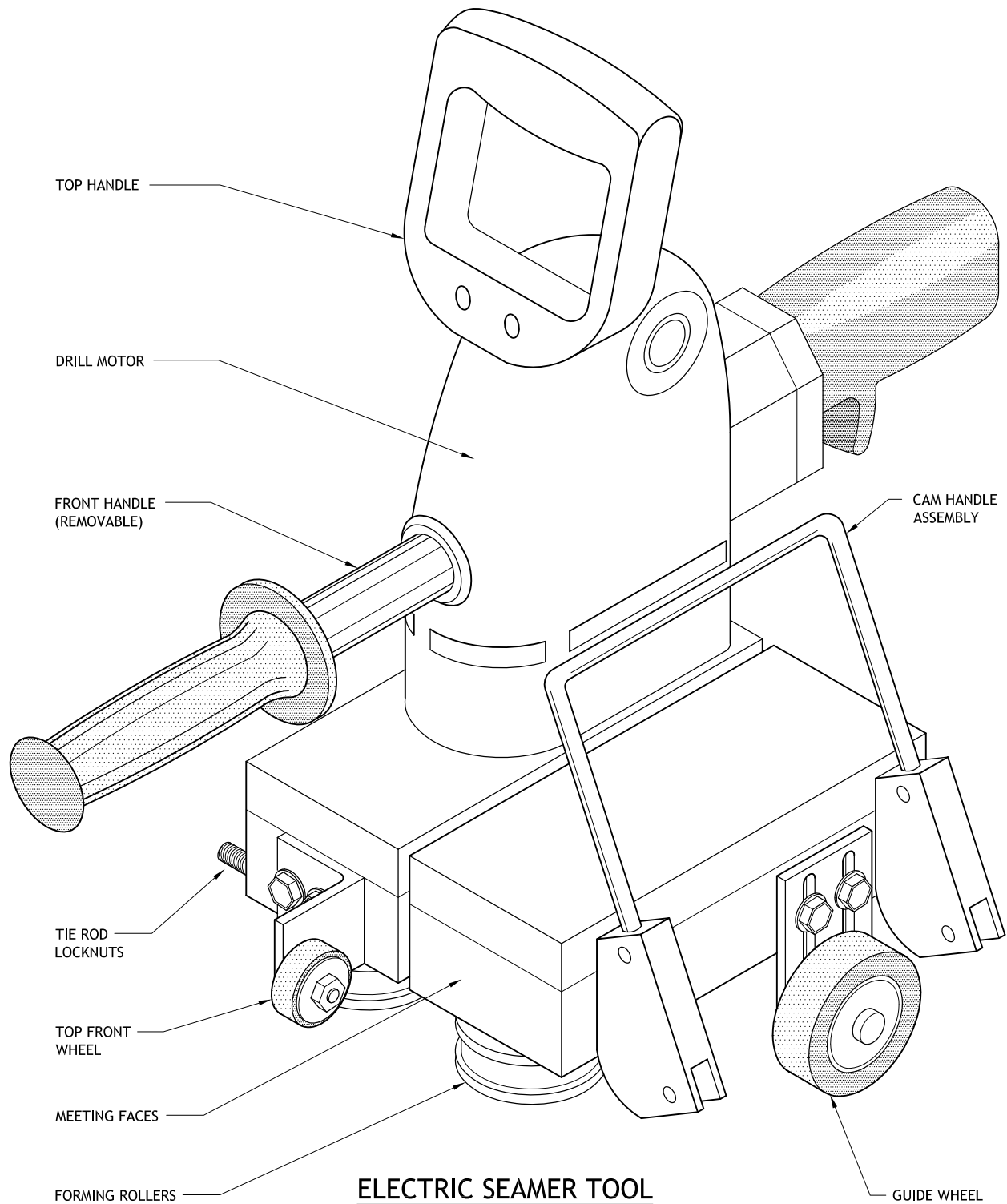


DO NOT LET SEAMER RUN OFF ROOF TO AVOID COSTLY REPAIRS OR INJURIES TO WORKERS.



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Hand Crimping Tool & Electric Seamer (SC) PANEL SYSTEM COMPONENTS



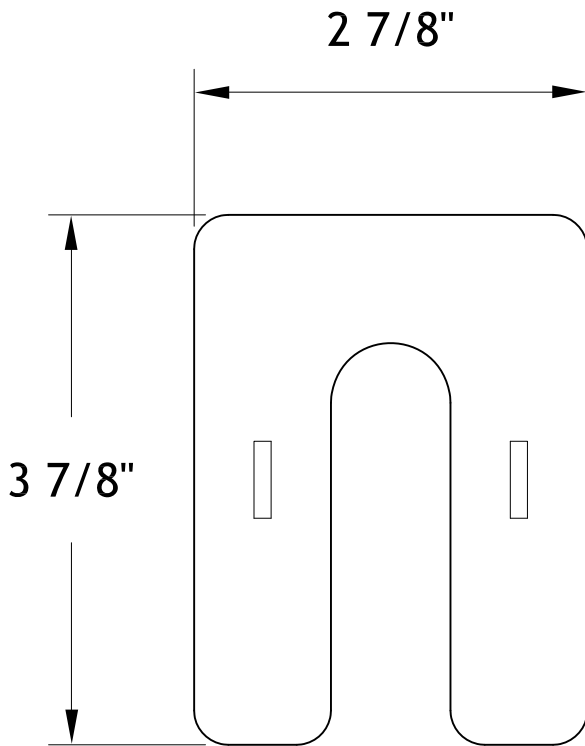
ELECTRIC SEAMER TOOL

- ◆ CONTACT YOUR LOCAL SALES REPRESENTATIVE APPROXIMATELY (4) DAYS PRIOR TO REQUIRING SEAMER ON THE JOB SITE.
- ◆ A SEAMER RENTAL AGREEMENT MUST BE SIGNED PER PROJECT PRIOR TO SEAMER RELEASE.
- ◆ CALL TO ARRANGE FOR SEAMER RENTAL.



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Electric Seamer
(SC) PANEL SYSTEM COMPONENTS

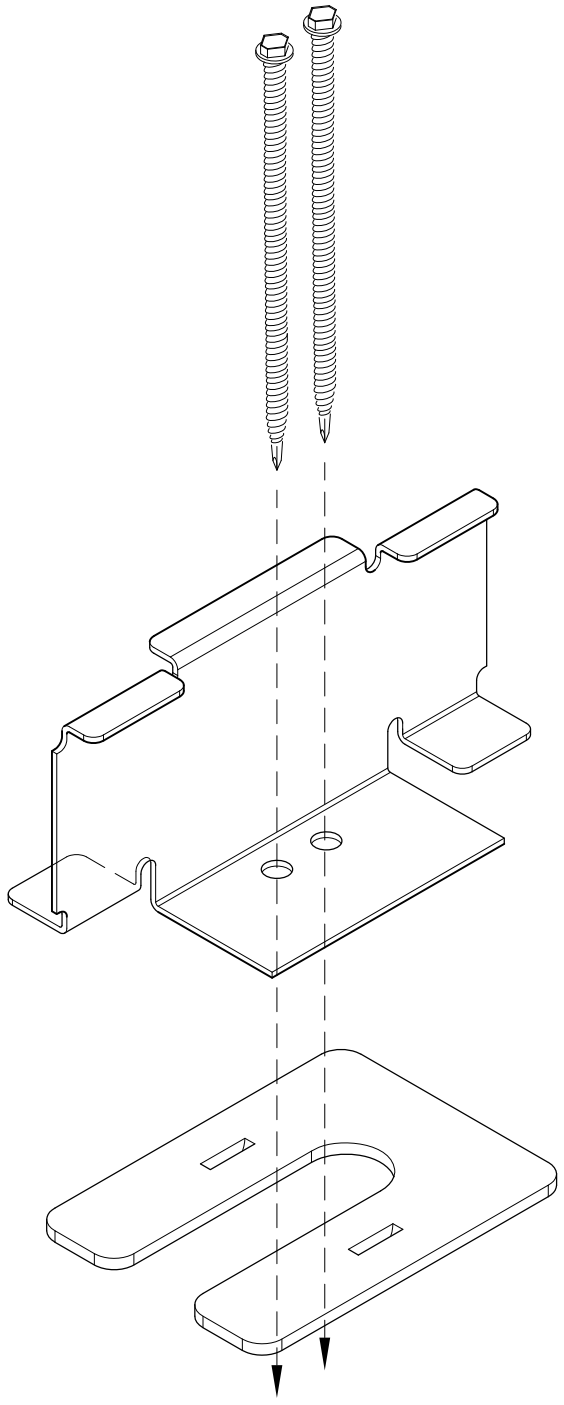


SIZES AVAILABLE	
*SHIMS ARE COLOR CODED BASED ON SHIM THICKNESS	
BLUE =	1/16" (1000 pcs / case)
RED =	1/8" (500 pcs / case)
BLACK =	1/4" (400 pcs / case)

SHIMS ARE DESIGNED FOR USE WITH UNEVEN ROOF DECKS. THE SHIM'S UNIQUE INTERLOCKING DESIGN ALLOWS FOR EASY STACKING OF SHIMS TO CREATE A WIDE RANGE OF THICKNESS COMBINATIONS.

INSTALLATION INSTRUCTIONS:

- LAY ROOF PANEL IN PLACE ON ROOF DECK.
- POSITION CLIPS ACCORDING TO THE CLIP SPACING DIAGRAM LOCATED ON THE ROOF PLAN OF THE SHOP DRAWINGS.
- CLAMP CLIP TO PANEL LEG.
- PLACE SHIMS UNDER CLIPS AS NEEDED TO MAINTAIN A TRUE AND LEVEL PLANE.



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Panel Clip Shims
 (SC) PANEL SYSTEM COMPONENTS



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Section **PS**

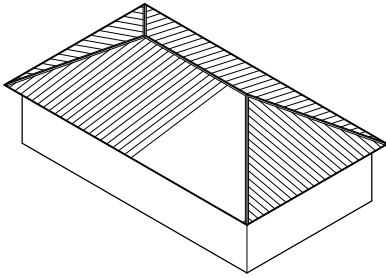
PANEL SYSTEM INSTALLATION SUPPORT



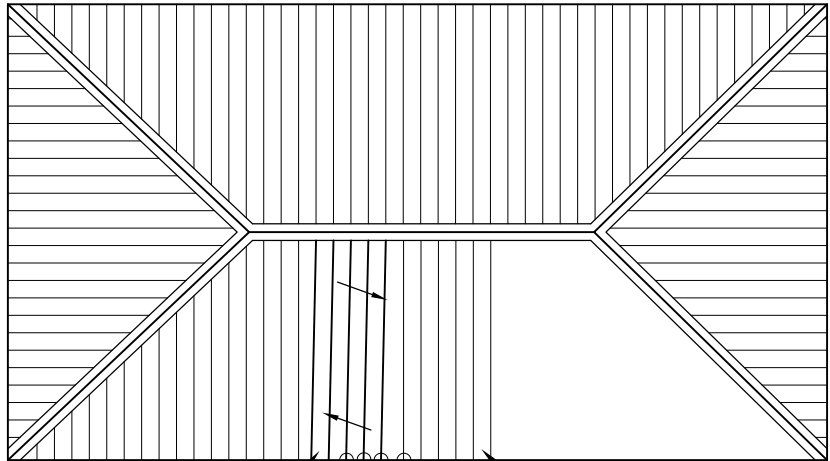
The following series of details is provided as a supplement to the 11" x 17" shop drawings.
ALWAYS start with your shop drawings! They will govern specific component assemblies.

SECTION CONTENTS

DETAIL:	PAGE NO:
Panel Adjustment - Vertical Leg Spread	ADJ-1.1
Panel Adjustment - Longitudinal Splice	ADJ-1.2
Panel Adjustment - Bending Panel Pan	ADJ-1.3
Seam Cap Lap Detail - Installation	CL-1.1
Head Assembly - Standard Offset Cleat	HA-1.1
Head Assembly - Vented Hold-down Cleat	HA-1.2
Hip Assembly - Detail 1 of 2	HA-3.1
Hip Assembly - Detail 2 of 2	HA-3.2
Hip Assembly - Deep Skew Z-Profile	HA-3.3
Knee Plate - Fabrication and Installation	K-1.1
Rake Assembly - With Self-adhering Foam Closure	NEO-1.1
Jamb Assembly - With Self-adhering Foam Closure	NEO-1.2
Seam-End Closure - 12", 16" and 18" Panel Widths	SC-1.1
Valley Closure - 12", 16" and 18" Panel Widths	VC-1.1
Snow Guard - Adhesive Installation	SNOW-1.1
Snow Guard - Installation Instructions	SNOW-1.2

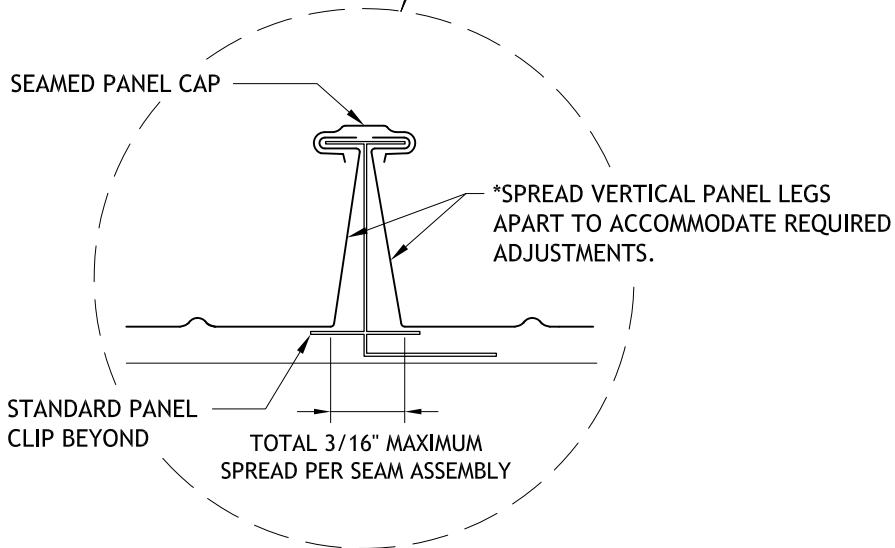


TYPICAL ROOF
 CONSISTENTLY CHECK PANEL
 LAYOUT FOR ACCURATE,
 STRAIGHT INSTALLATION.



PROBLEM:
 PANEL LAYOUT
 BECOMES CROOKED.

SOLUTION!:
 PANEL LAYOUT IS
 STRAIGHTENED BY
 GRADUALLY SPREADING THE
 VERTICAL PANEL LEGS UNTIL
 PANEL LAYOUT HAS BEEN
 CORRECTED.



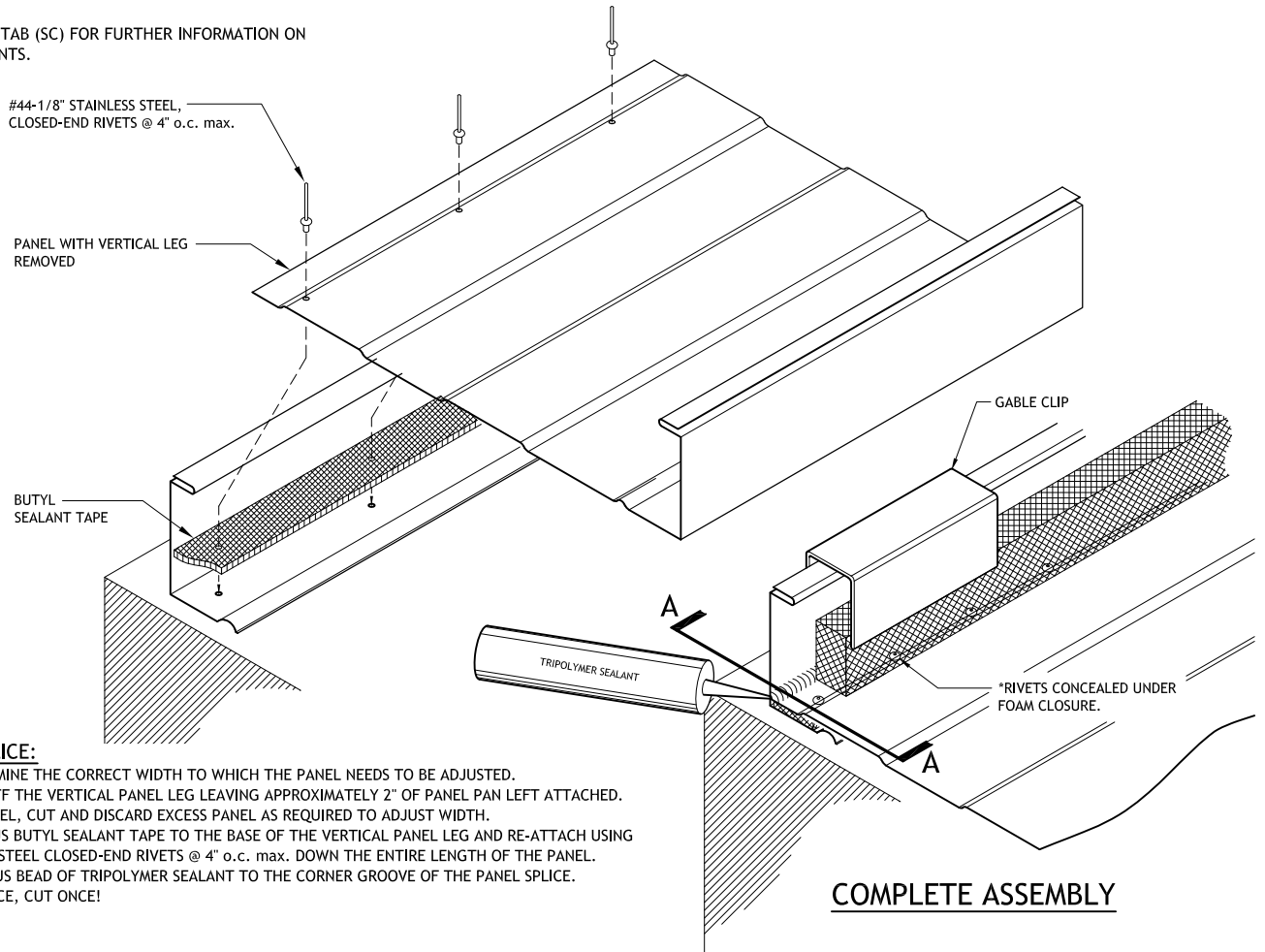
TAPERED PANELS:
 *ALSO A COMMON TECHNIQUE FOR ADJUSTING
 TAPERED PANELS AS INSTALLED AROUND A
 RADIUS.



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Panel Adjustment Detail
 Vertical Leg Spread
(PS) PANEL SYSTEM ASSEMBLIES

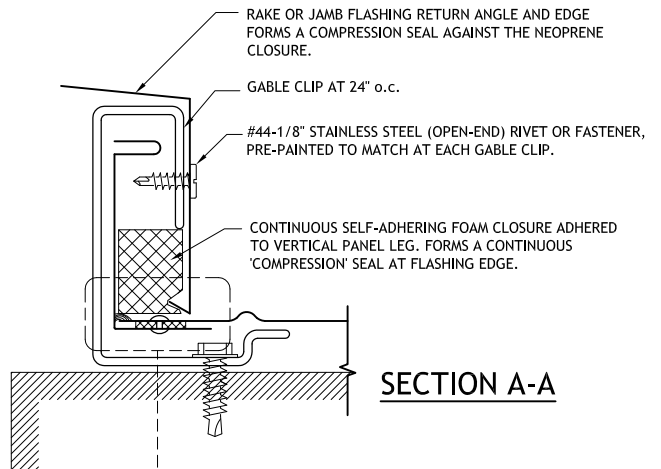
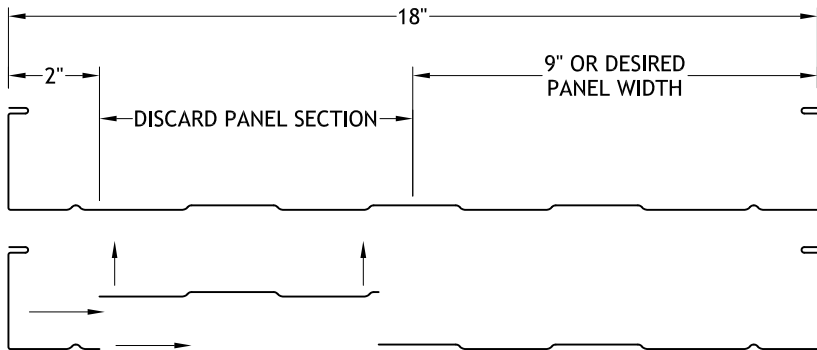
*REFERENCE SECTION TAB (SC) FOR FURTHER INFORMATION ON INDIVIDUAL COMPONENTS.



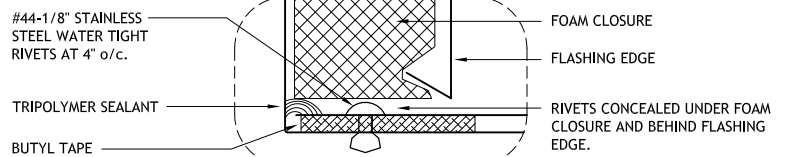
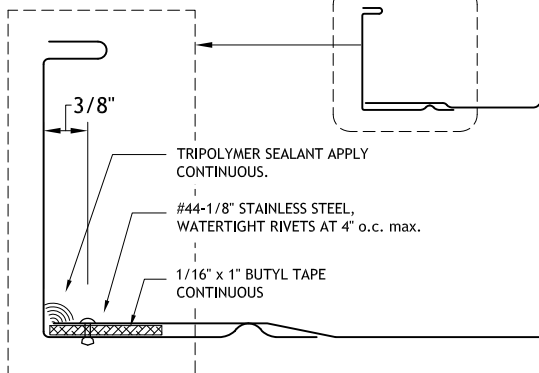
LONGITUDINAL SPLICE:

1. MEASURE TO DETERMINE THE CORRECT WIDTH TO WHICH THE PANEL NEEDS TO BE ADJUSTED.
2. ERECTOR TO CUT OFF THE VERTICAL PANEL LEG LEAVING APPROXIMATELY 2" OF PANEL PAN LEFT ATTACHED.
3. FROM THE MAIN PANEL, CUT AND DISCARD EXCESS PANEL AS REQUIRED TO ADJUST WIDTH.
4. ADHERE CONTINUOUS BUTYL SEALANT TAPE TO THE BASE OF THE VERTICAL PANEL LEG AND RE-ATTACH USING #44-1/8" STAINLESS STEEL CLOSED-END RIVETS @ 4" o.c. max. DOWN THE ENTIRE LENGTH OF THE PANEL.
5. APPLY A CONTINUOUS BEAD OF TRIPOLYMER SEALANT TO THE CORNER GROOVE OF THE PANEL SPLICE.
6. HINT: MEASURE TWICE, CUT ONCE!

COMPLETE ASSEMBLY



SECTION A-A



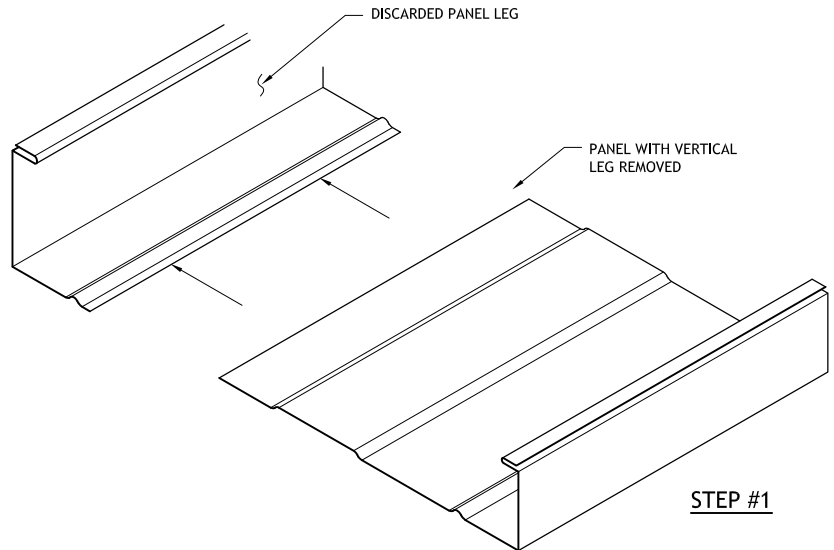
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**Panel Adjustment Detail
 Longitudinal Splice
 (PS) PANEL SYSTEM ASSEMBLIES**

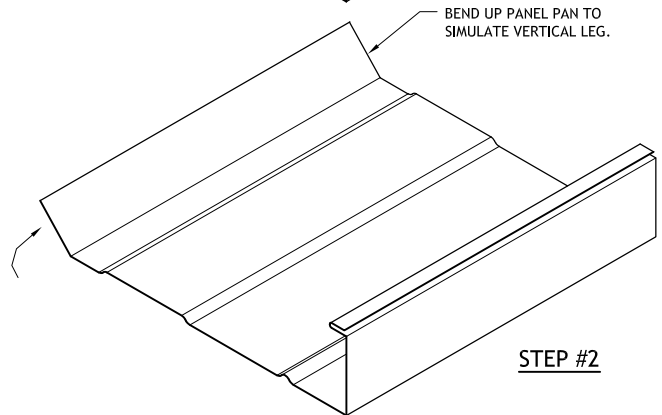
*REFERENCE SECTION TAB (SC) FOR FURTHER INFORMATION ON INDIVIDUAL COMPONENTS.

BEND PANEL PAN:

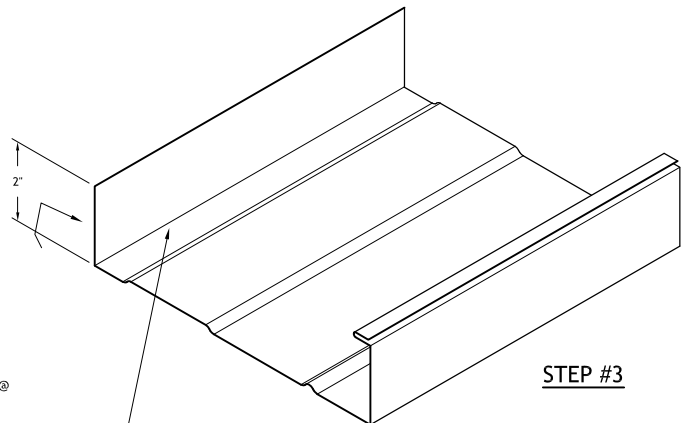
- ◆ MEASURE TO DETERMINE THE CORRECT WIDTH TO WHICH THE PANEL NEEDS TO BE ADJUSTED.
- ◆ IN ADDITION TO THE NEW PANEL WIDTH MEASUREMENT, IT IS CRUCIAL TO ADD AN EXTRA 2" OF PANEL PAN TO YOUR OVERALL MEASUREMENT. THIS WILL BE BENT UP VERTICALLY TO SIMULATE A VERTICAL PANEL LEG.
- ◆ CUT OFF AND DISCARD VERTICAL PANEL LEG AND EXCESS PANEL PAN AS REQUIRED.
- ◆ USING HAND TOOLS, BEGIN BENDING PANEL PAN VERTICALLY THE FULL LENGTH OF THE PANEL.
- ◆ IT MAY TAKE SEVERAL PASSES TO BEND PANEL PAN TO A FULL 90°. MAKE SURE THE 90° BEND HAS A SHARP RADIUS AND NOT A LARGE, ROUNDED RADIUS. DO NOT DIMPLE THE PANEL PAN DURING THE FOLDING OPERATION. SIGNS OF HAND BENDING THE PANEL EDGE SHOULD NOT BE EVIDENT IN THE PANEL PAN. THE PANEL PAN IS TO BE FLAT AND SMOOTH.
- ◆ HINT: MEASURE TWICE, CUT ONCE!



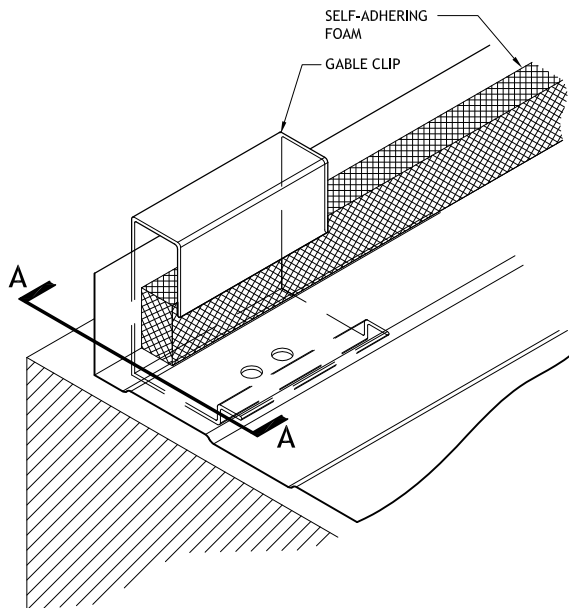
STEP #1



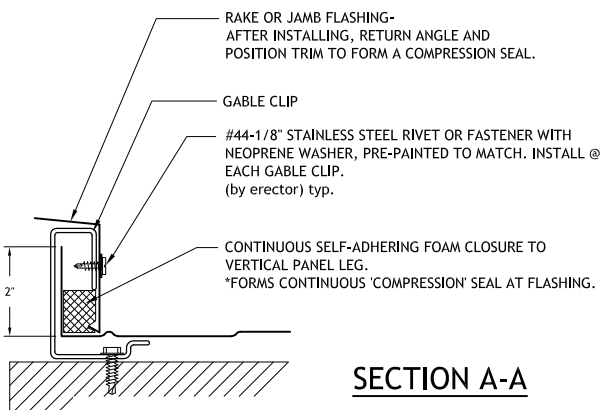
STEP #2



STEP #3



COMPLETE ASSEMBLY

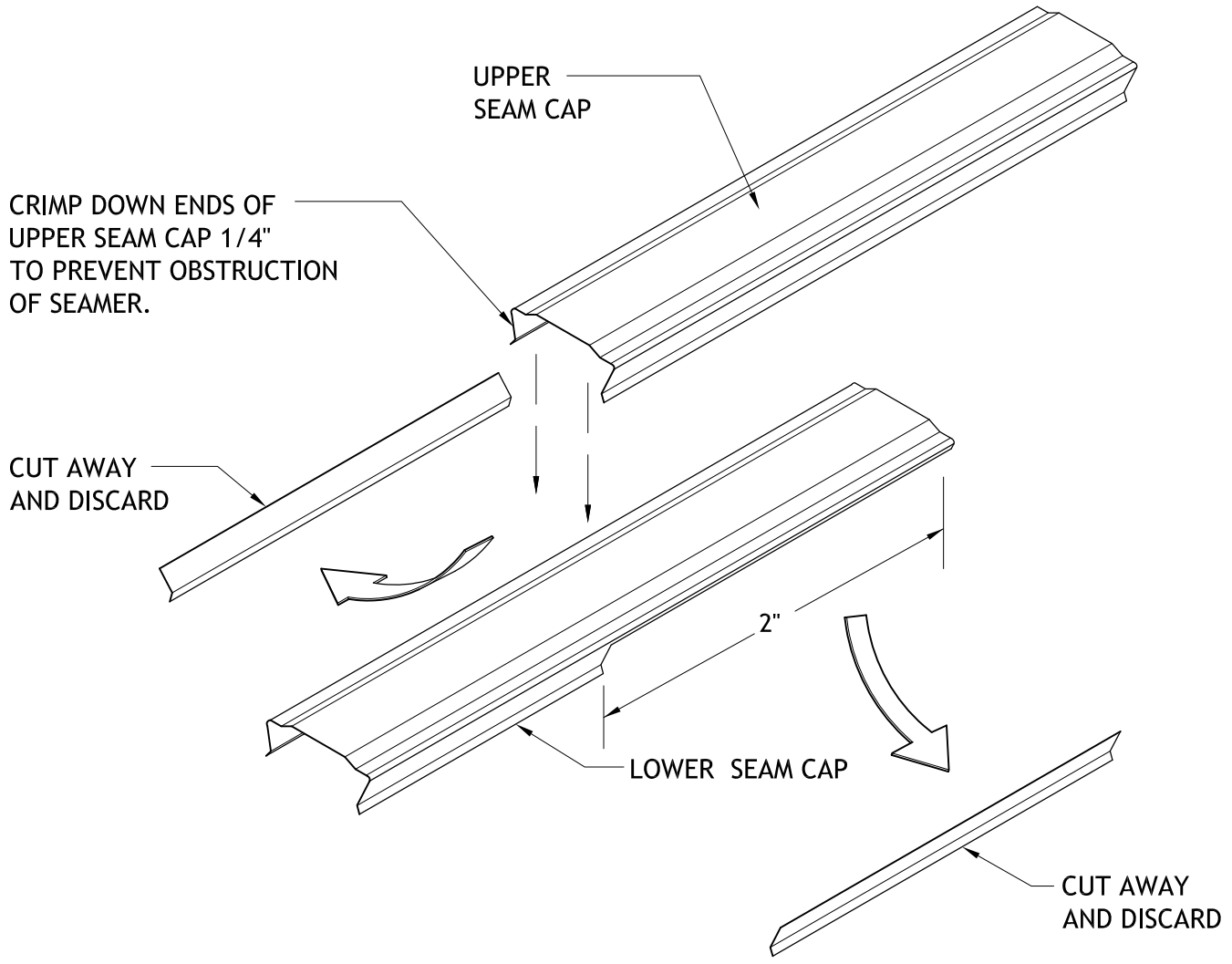


SECTION A-A



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**Panel Adjustment Detail
 Folding Panel Pan
 (PS) PANEL SYSTEM ASSEMBLIES**



ERECTOR NOTE:
 LAP SEAM CAPS DOWN
 SLOPE OF PANEL LAPS.



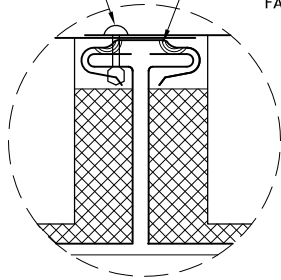
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Seam Cap Lap Detail
 Installation Instructions
(PS) PANEL SYSTEM ASSEMBLIES

*REFER TO SHOP DRAWING SECTION DETAILS FOR PROPER PLACEMENT OF HEAD CLOSURES.

*REFERENCE SECTION TAB (SC) FOR FURTHER INFORMATION ON INDIVIDUAL COMPONENTS.

#44-1/8" STAINLESS STEEL RIVETS AT EACH SEAM.
HOT MELT SEALANT BEADS FACTORY INJECTED.



FASTENERS AT EACH SEAM AND 6"o.c. MAX. SPACING BETWEEN SEAMS INTO HEAD CLOSURES.

#44-1/8" STAINLESS STEEL RIVETS AT EACH PANEL SEAM.

EXPLODED ASSEMBLY VIEW

#44-1/8" STAINLESS STEEL RIVETS

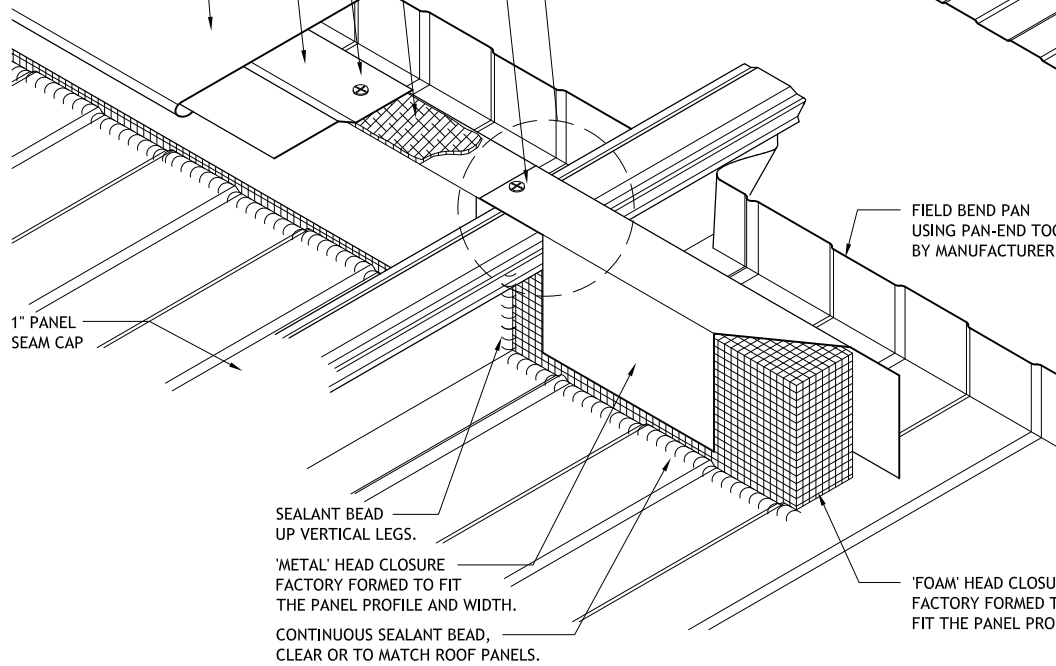
CONTINUOUS BUTYL SEALANT TAPE

FASTENERS AT EACH SEAM AND 6"o.c. MAX. SPACING BETWEEN SEAMS INTO HEAD CLOSURES.

OFF-SET CLEAT

RIDGE/HIP TRIM

1" PANEL SEAM CAP



FIELD BEND PAN USING PAN-END TOOL SUPPLIED BY MANUFACTURER.

SEALANT BEAD UP VERTICAL LEGS.

'METAL' HEAD CLOSURE FACTORY FORMED TO FIT THE PANEL PROFILE AND WIDTH.

CONTINUOUS SEALANT BEAD, CLEAR OR TO MATCH ROOF PANELS.

'FOAM' HEAD CLOSURE FACTORY FORMED TO FIT THE PANEL PROFILE.

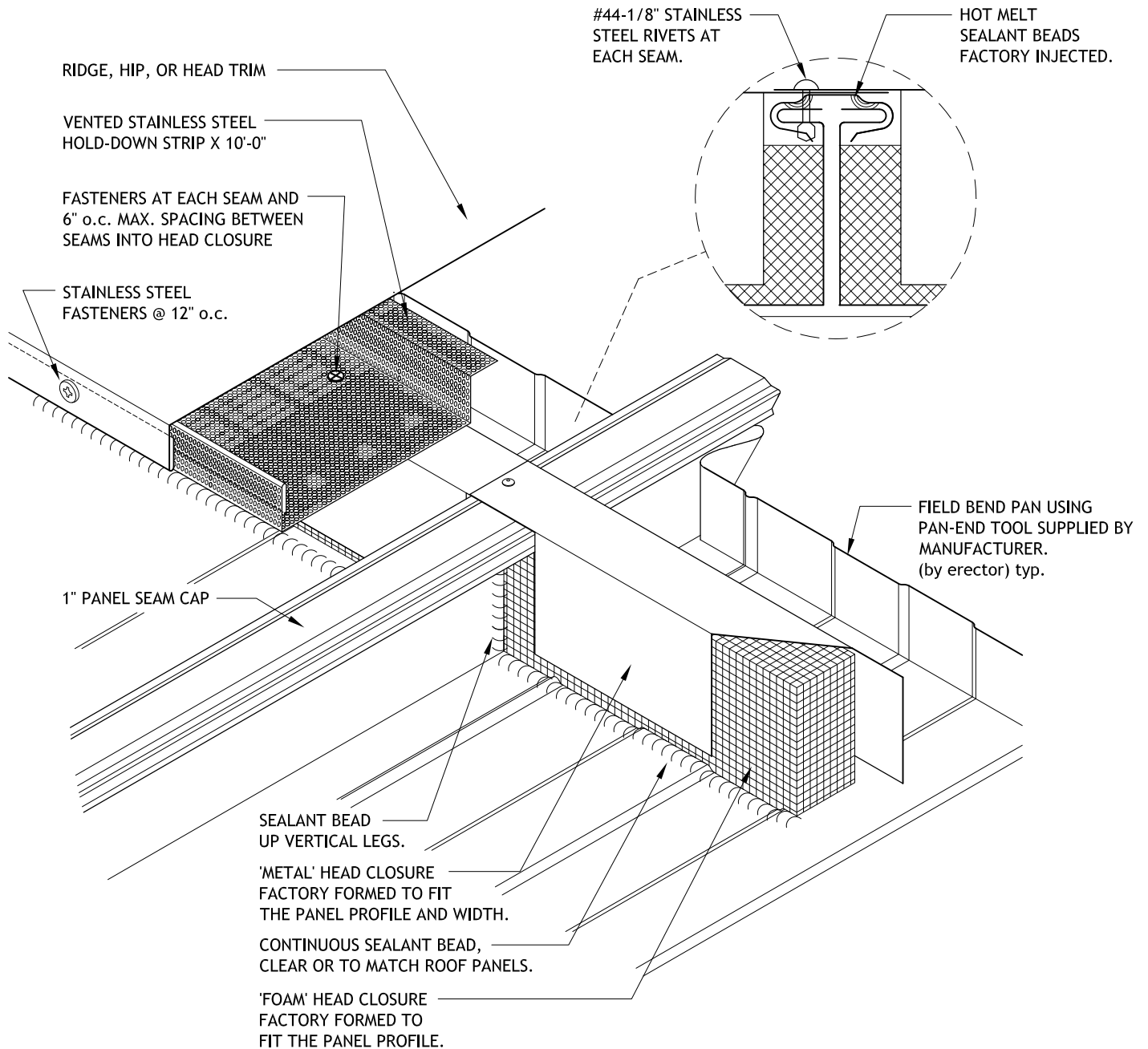


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Head Assembly Detail
Standard Panel System
(PS) PANEL SYSTEM ASSEMBLIES

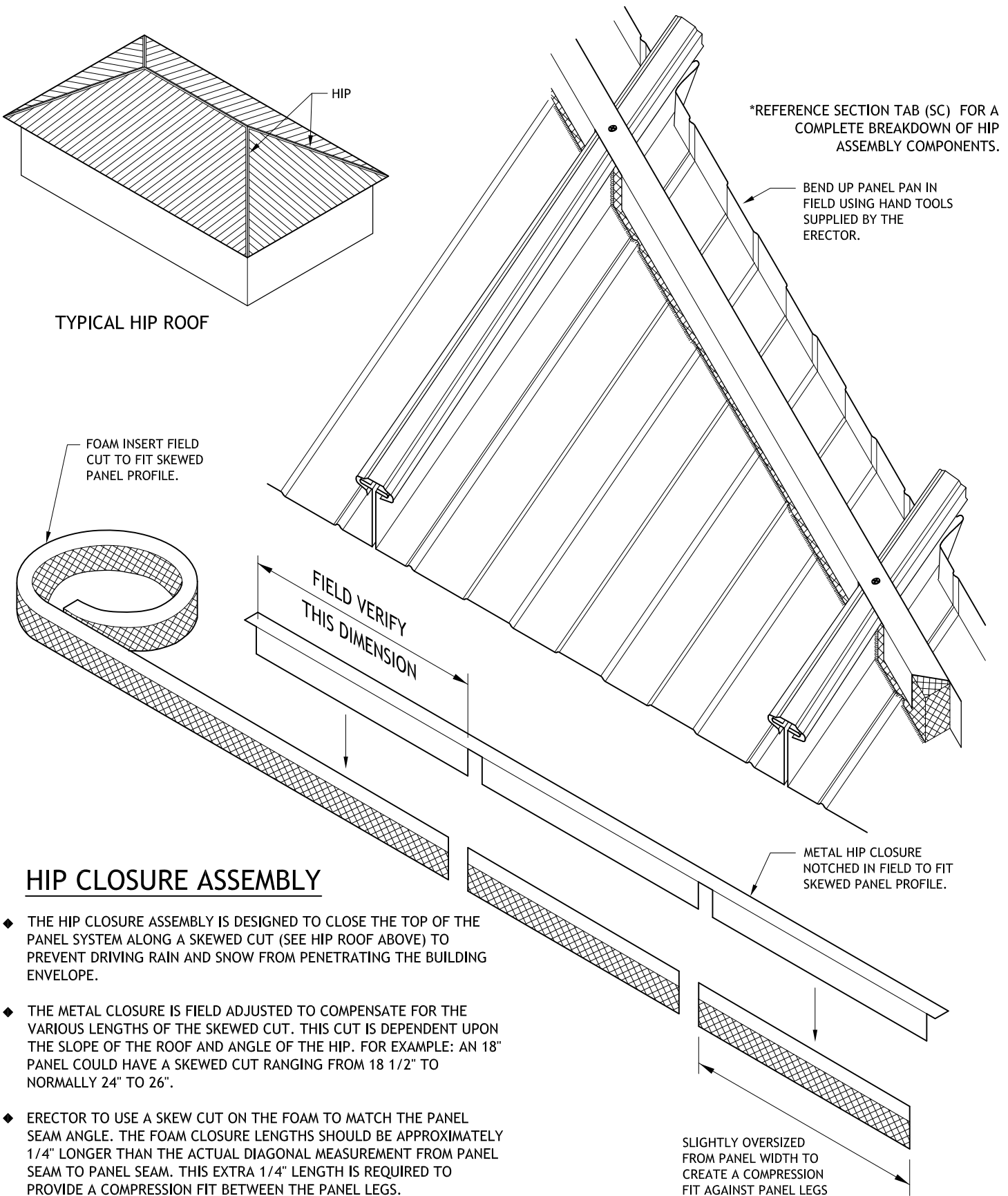
*REFER TO SHOP DRAWING SECTION DETAILS FOR PROPER PLACEMENT OF HEAD CLOSURE AND PERFORATED VENT STRIP.

*REFERENCE SECTION TAB (SC) FOR FURTHER INFORMATION ON INDIVIDUAL COMPONENTS.



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Vented Head Assembly Detail Standard or Batten Panel System (PS) PANEL SYSTEM ASSEMBLIES



HIP CLOSURE ASSEMBLY

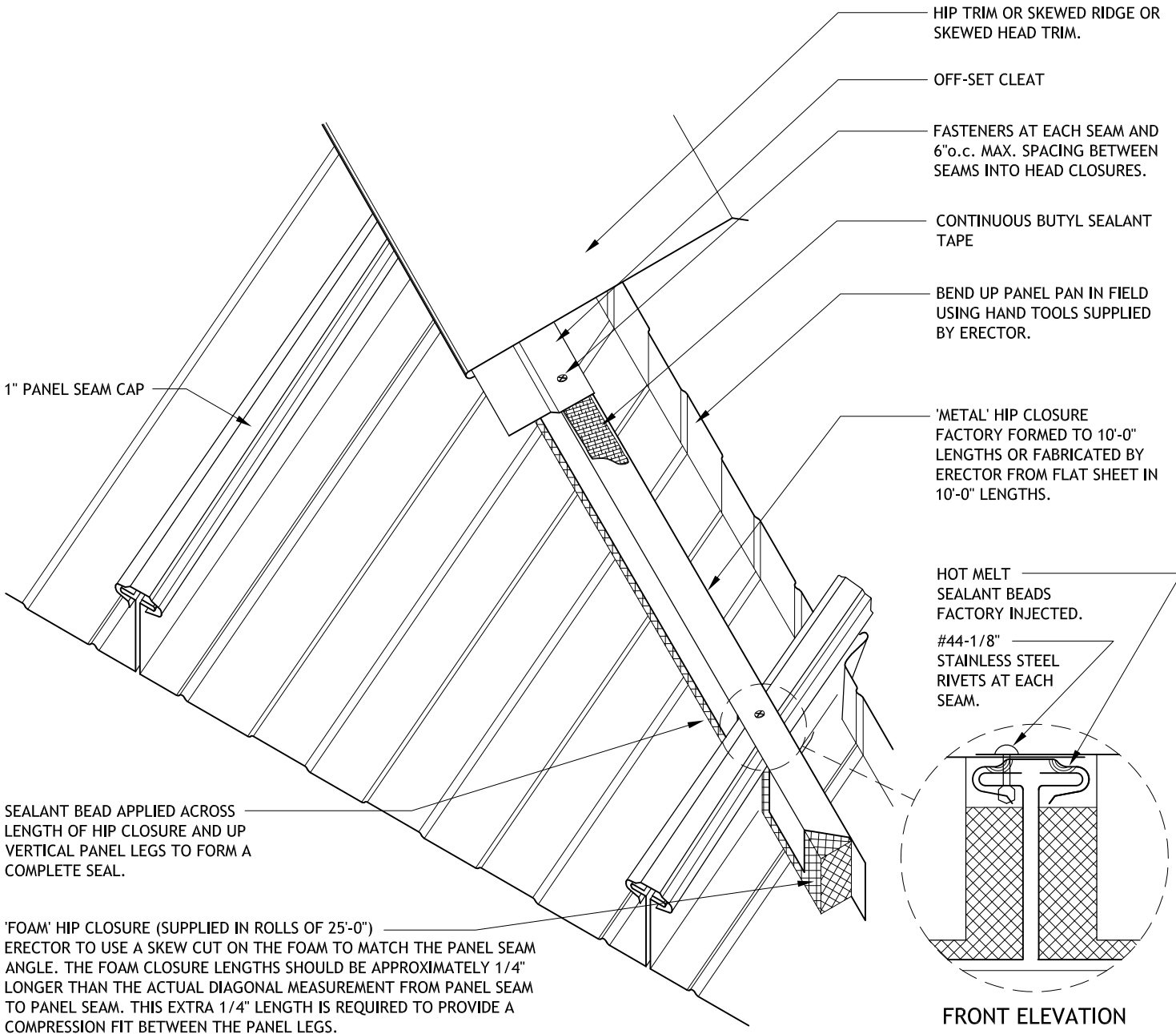
- ◆ THE HIP CLOSURE ASSEMBLY IS DESIGNED TO CLOSE THE TOP OF THE PANEL SYSTEM ALONG A SKEWED CUT (SEE HIP ROOF ABOVE) TO PREVENT DRIVING RAIN AND SNOW FROM PENETRATING THE BUILDING ENVELOPE.
- ◆ THE METAL CLOSURE IS FIELD ADJUSTED TO COMPENSATE FOR THE VARIOUS LENGTHS OF THE SKEWED CUT. THIS CUT IS DEPENDENT UPON THE SLOPE OF THE ROOF AND ANGLE OF THE HIP. FOR EXAMPLE: AN 18" PANEL COULD HAVE A SKEWED CUT RANGING FROM 18 1/2" TO NORMALLY 24" TO 26".
- ◆ ERECTOR TO USE A SKEW CUT ON THE FOAM TO MATCH THE PANEL SEAM ANGLE. THE FOAM CLOSURE LENGTHS SHOULD BE APPROXIMATELY 1/4" LONGER THAN THE ACTUAL DIAGONAL MEASUREMENT FROM PANEL SEAM TO PANEL SEAM. THIS EXTRA 1/4" LENGTH IS REQUIRED TO PROVIDE A COMPRESSION FIT BETWEEN THE PANEL LEGS.



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Hip Closure Assembly
 Detail 1 of 2
 (PS) PANEL SYSTEM ASSEMBLIES

*REFERENCE SECTION TAB (SC) FOR A COMPLETE BREAKDOWN OF HIP ASSEMBLY COMPONENTS.



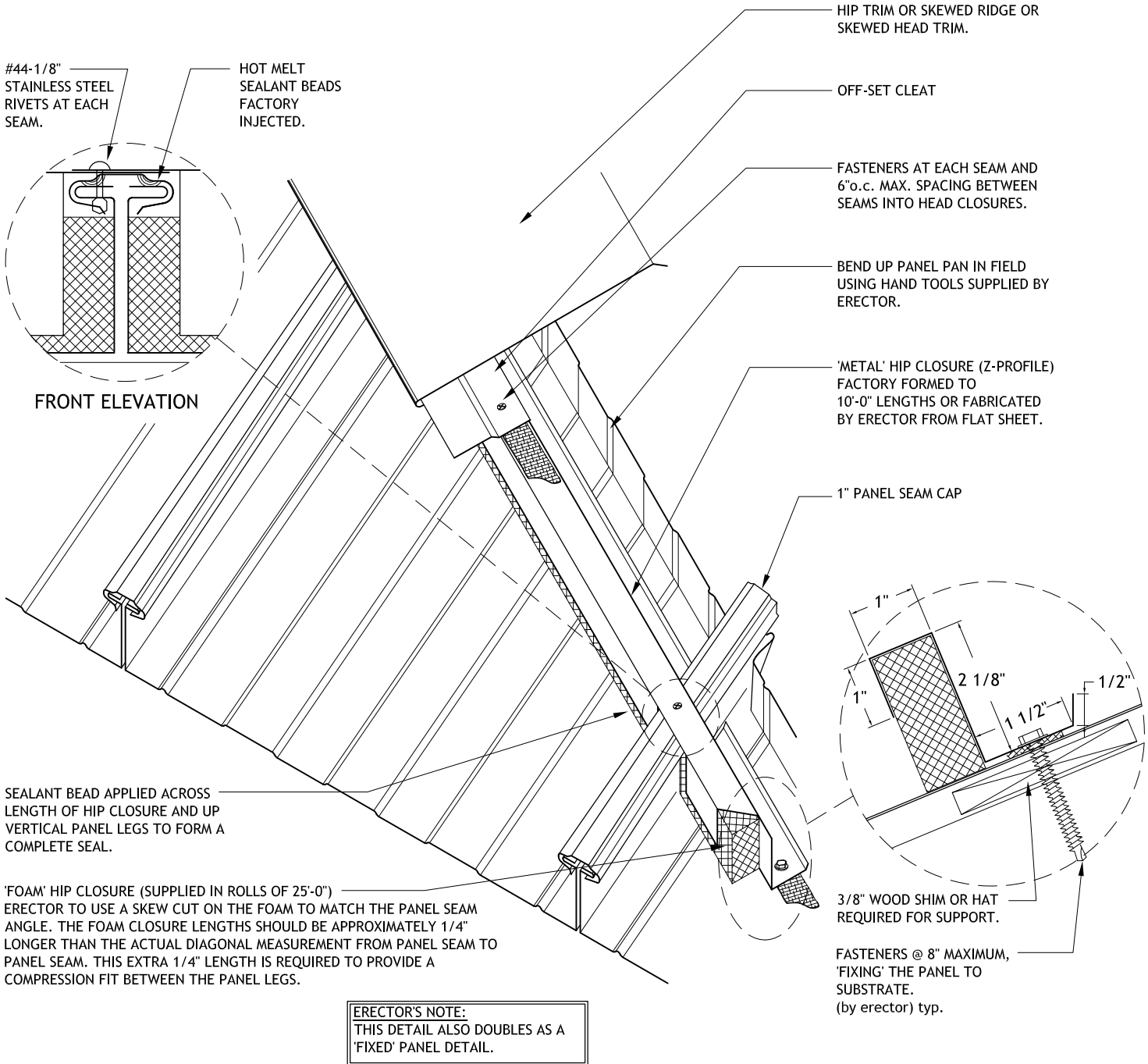
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Hip Closure Assembly
 Detail 2 of 2
 (PS) PANEL SYSTEM ASSEMBLIES

*USED WHEN REQUIRED FOR HEAVILY SKEWED
PANEL CUTS.

*REFERENCE SHOP DRAWINGS FOR SPECIFIC
LOCATION(S) OF THIS ASSEMBLY.

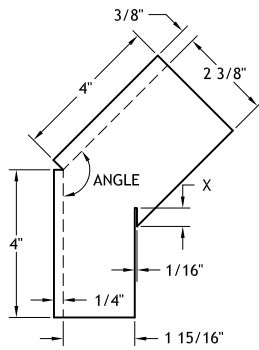
*THIS ASSEMBLY 'FIXES' THE PANEL, THEREBY
DIRECTING THERMAL MOVEMENT DOWN SLOPE.



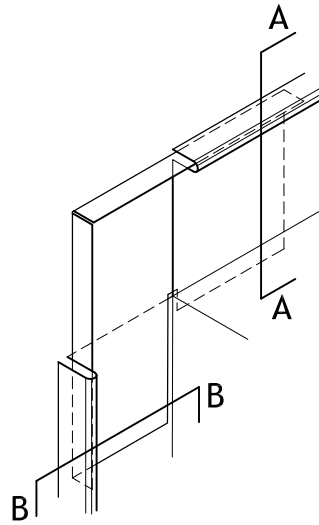
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Hip Closure Assembly Z-Profile Closure (PS) PANEL SYSTEM ASSEMBLIES

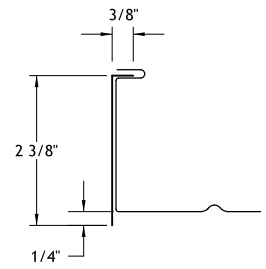
KNEE PLATE ASSEMBLY



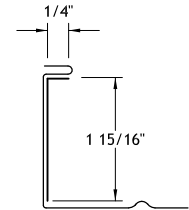
NOTE: KNEE PLATES TO BE FACTORY FORMED BY IMETCO. TWO (2) KNEE PLATES REQUIRED FOR EACH PANEL SEAM (ONE LEFT HAND AND ONE RIGHT HAND). LEFT HAND PLATE TO BE OPPOSITE HAND OF RIGHT HAND SHOWN.



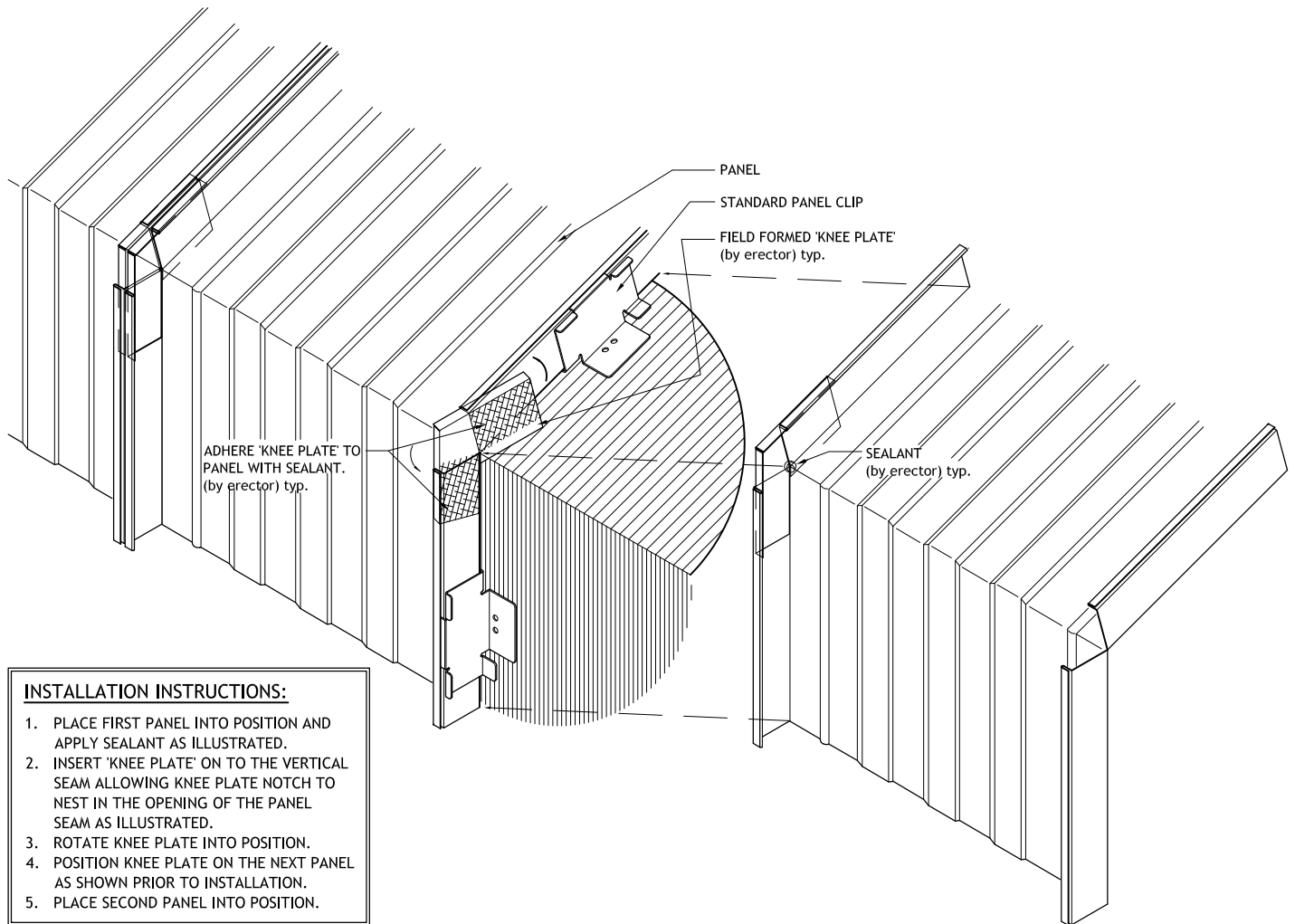
ALLOW THE KNEE PLATE TO NEST INSIDE UPPER PANEL WHILE NESTING OUTSIDE THE LOWER PANEL.



SECTION A-A
UPPER PANEL



SECTION B-B
LOWER PANEL



INSTALLATION INSTRUCTIONS:

1. PLACE FIRST PANEL INTO POSITION AND APPLY SEALANT AS ILLUSTRATED.
2. INSERT 'KNEE PLATE' ON TO THE VERTICAL SEAM ALLOWING KNEE PLATE NOTCH TO NEST IN THE OPENING OF THE PANEL SEAM AS ILLUSTRATED.
3. ROTATE KNEE PLATE INTO POSITION.
4. POSITION KNEE PLATE ON THE NEXT PANEL AS SHOWN PRIOR TO INSTALLATION.
5. PLACE SECOND PANEL INTO POSITION.

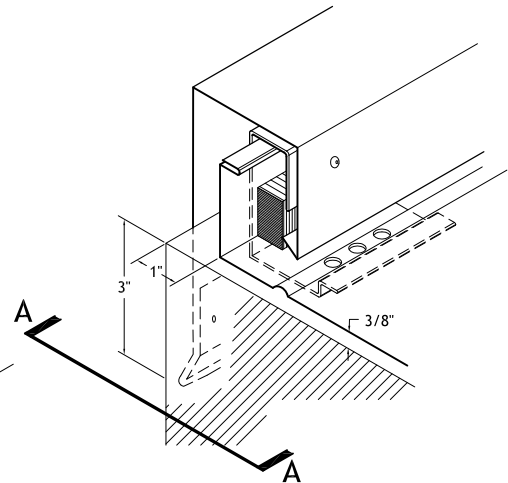
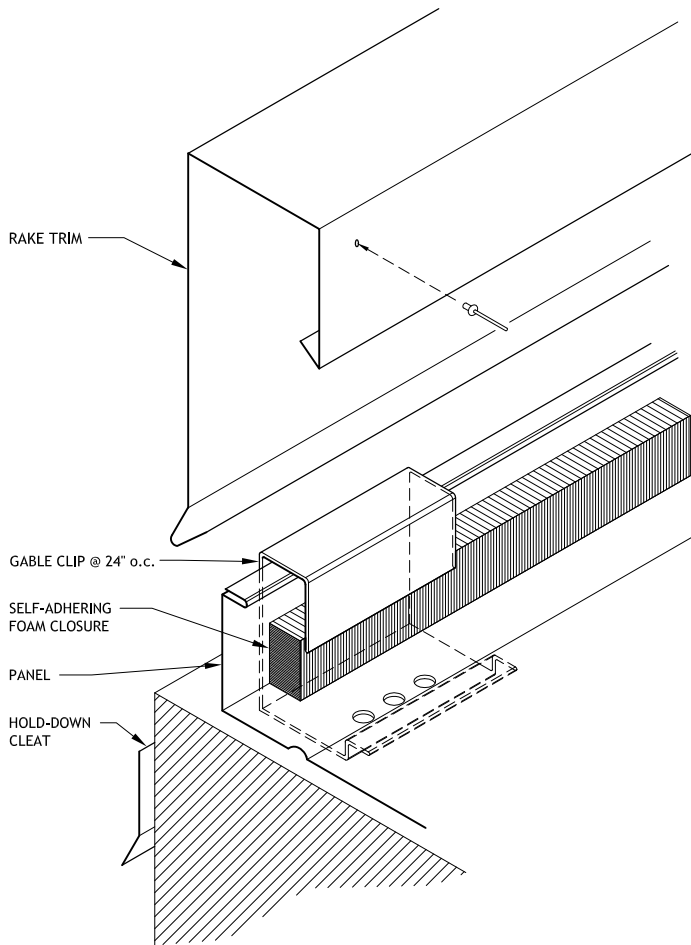


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Standard Knee Plate Detail
Fabrication and Installation
(PS) PANEL SYSTEM ASSEMBLIES

*REFERENCE SECTION TAB (SC) FOR FURTHER INFORMATION ON INDIVIDUAL COMPONENTS.

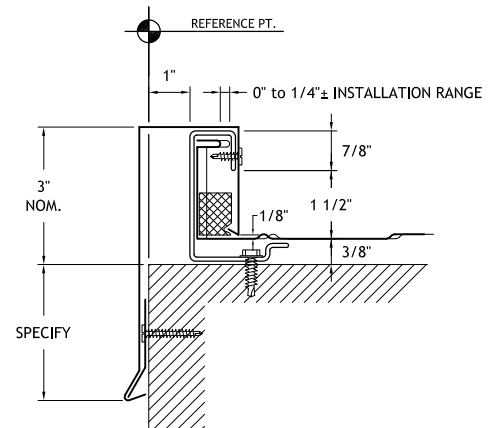
*REFERENCE SECTION TAB (PS), pg. ADJ-1.2 and ADJ-1.3 FOR PANEL TERMINATION OPTIONS AT RAKE EDGE.



COMPLETE ASSEMBLY

ERECTOR NOTE:

- ◆ ATTACH GABLE CLIPS TO SUBSTRATE AS ILLUSTRATED IN THE SHOP DRAWINGS.
- ◆ INSERT PANEL LEG INTO GABLE CLIP AT APPROXIMATELY A 45° ANGLE AND ROTATE INTO PLACE.
- ◆ ATTACH SELF-ADHERING FOAM TO VERTICAL PANEL LEG THE FULL LENGTH OF THE PANEL.
- ◆ HINT: DRY FIT RAKE TRIM TO LOCATE CORRECT PLACEMENT OF HOLD-DOWN CLEAT. FASTEN HOLD-DOWN CLEAT AS ILLUSTRATED IN THE SHOP DRAWINGS.
- ◆ FASTEN RAKE TRIM AT EACH GABLE CLIP WITH #44-1/8" STAINLESS STEEL RIVETS OR FASTENER, PRE-PAINTED TO MATCH. LOCK RAKE TRIM ONTO HOLD-DOWN CLEAT.
- ◆ THIS DETAIL REPRESENTS A TYPICAL ASSEMBLY. ALWAYS REFERENCE SHOP DRAWINGS FOR DETAILING SPECIFIC TO YOUR PROJECT.



SECTION A-A

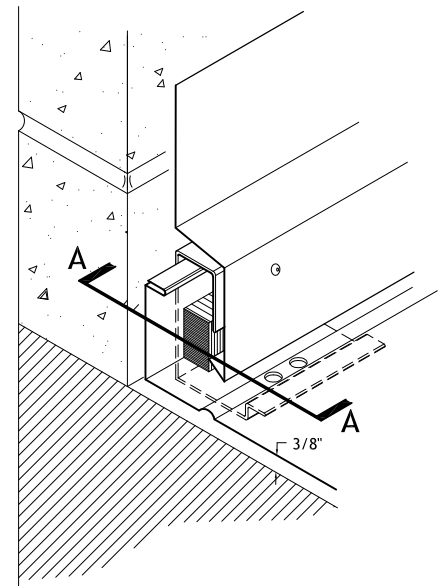
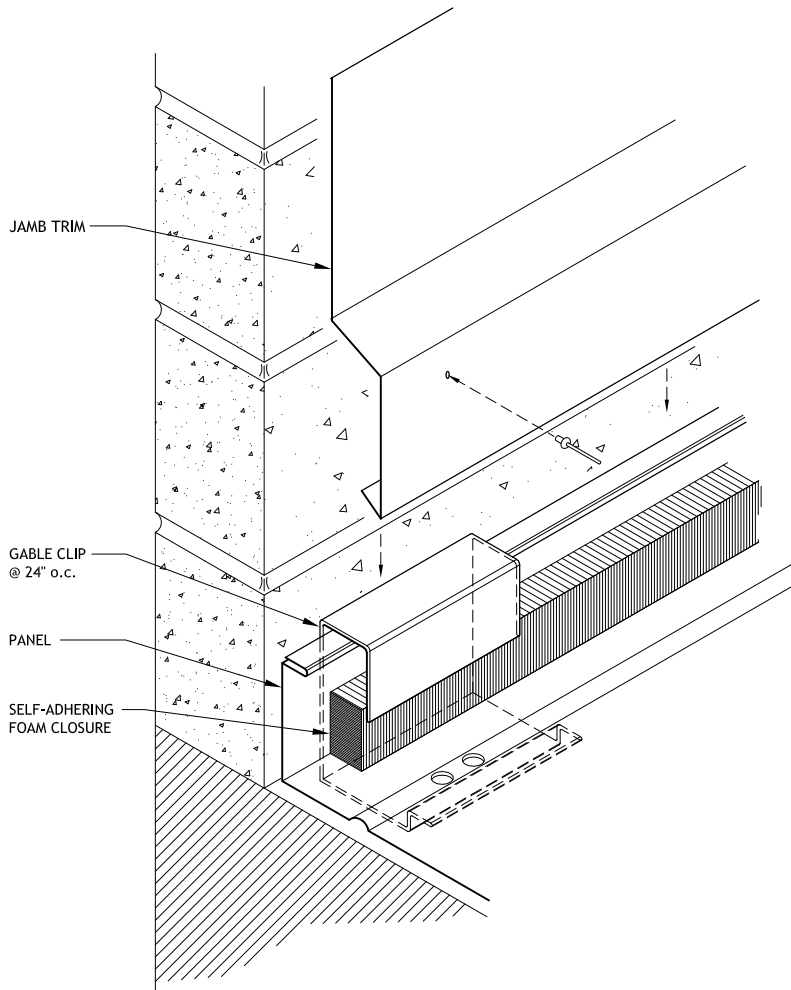


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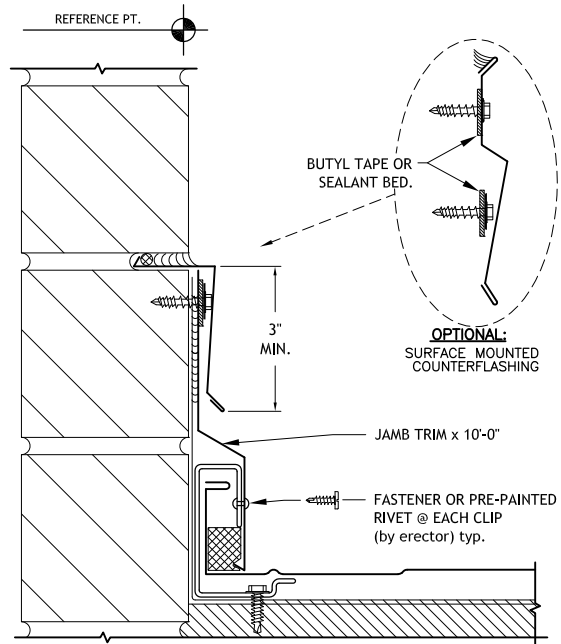
Rake Assembly Detail
 with Self-Adhering Foam Closure
(PS) PANEL SYSTEM ASSEMBLIES

*REFERENCE SECTION TAB (SC) FOR FURTHER INFORMATION ON INDIVIDUAL COMPONENTS.

*REFERENCE SECTION TAB (PS), pg. ADJ-1.2 and ADJ-1.3 FOR PANEL TERMINATION OPTIONS AT JAMB EDGE.



COMPLETE ASSEMBLY



SECTION A-A

ERECTOR NOTE:

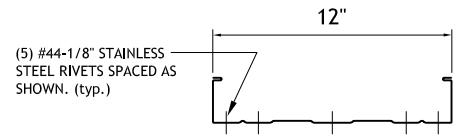
- ♦ ATTACH GABLE CLIPS TO SUBSTRATE AS ILLUSTRATED IN THE SHOP DRAWINGS.
- ♦ INSERT PANEL LEG INTO GABLE CLIP AT APPROXIMATELY A 45° ANGLE AND ROTATE INTO PLACE.
- ♦ ATTACH SELF-ADHERING FOAM TO VERTICAL PANEL LEG THE FULL LENGTH OF THE PANEL.
- ♦ COORDINATE PROPER LOCATION OF ASSOCIATED FLASHINGS, SEALANTS, AND OTHER COMPONENTS WITH JAMB TRIM.
- ♦ FASTEN JAMB TRIM AT EACH GABLE CLIP WITH #44-1/8" STAINLESS STEEL RIVETS OR FASTENER, PRE-PAINTED TO MATCH. LOCK RAKE TRIM ONTO HOLD-DOWN CLEAT.
- ♦ THIS DETAIL REPRESENTS A TYPICAL ASSEMBLY. ALWAYS REFERENCE SHOP DRAWINGS FOR DETAILING SPECIFIC TO YOUR PROJECT.



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Sloping Jamb Assembly Detail with Self-Adhering Foam Closure (PS) PANEL SYSTEM ASSEMBLIES

(5) #44-1/8" STAINLESS STEEL RIVETS, PRE-PAINTED TO MATCH PANELS.



PANEL DIAGRAM FASTENER LOCATION

PANEL EDGE STIFFENER DOUBLE MATERIAL THICKNESS. RIVETED TO PANEL EDGE AS ILLUSTRATED.

TURN PANEL SEAM CAP DOWN 3/4" IN THE FIELD. DO NOT CUT THE SEAM CAP.

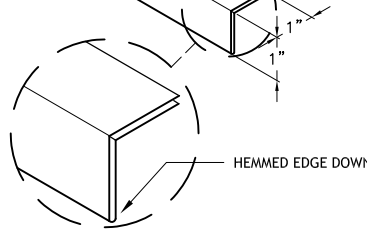
(6) #44-1/8" STAINLESS STEEL RIVETS, PRE-PAINTED TO MATCH PANELS.

EXTEND THE TWO BEADS OF GUNABLE, NON-CURING ACRYLIC SEALANT INSIDE THE PANEL LEGS DOWN THE FOAM CLOSURE FORMING A CONTINUOUS SEALANT BED SANDWICHED BETWEEN THE PANEL LEGS.

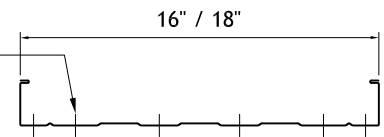
EXTEND THE TWO BEADS OF GUNABLE, NON-CURING ACRYLIC SEALANT INSIDE THE PANEL LEGS DOWN THE FOAM CLOSURE FORMING A CONTINUOUS SEALANT BED SANDWICHED BETWEEN THE PANEL LEGS.

CONTINUOUS FOAM CLOSURE. APPLY (2) ROWS OF GUNABLE, NON-CURING ACRYLIC SEALANT TO THE TOP SIDE. (by Manufacturer) typ.

NOTE: REFERENCE SHOP DRAWINGS FOR THE REQUIREMENT OR NON-REQUIREMENT OF THE FOAM CLOSURE.



(6) #44-1/8" STAINLESS STEEL RIVETS SPACED AS SHOWN. (typ.)



PANEL DIAGRAM FASTENER LOCATION

2" LAP @ JOINTS. DO NOT PENETRATE LAP WITH RIVETS.

NOTCH OUT AND DISCARD INSIDE TAB.

EXPANSION CLEARANCE OF 1/4"

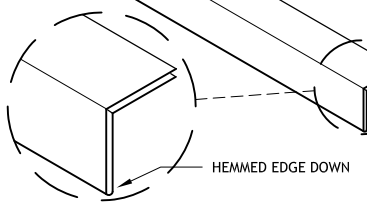
EDGE STIFFENER LAP

EXTEND THE TWO BEADS OF GUNABLE, NON-CURING ACRYLIC SEALANT INSIDE THE PANEL LEGS DOWN THE FOAM CLOSURE FORMING A CONTINUOUS SEALANT BED SANDWICHED BETWEEN THE PANEL LEGS.

CONTINUOUS FOAM CLOSURE. APPLY (2) ROWS OF GUNABLE, NON-CURING ACRYLIC SEALANT TO THE TOP SIDE. (by Manufacturer) typ.

NOTE: REFERENCE SHOP DRAWINGS FOR THE REQUIREMENT OR NON-REQUIREMENT OF THE FOAM CLOSURE.

TURN PANEL SEAM CAP DOWN 3/4" IN THE FIELD. DO NOT CUT THE SEAM CAP.

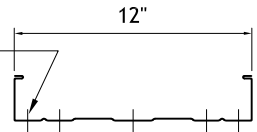


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Seam-End Closure Detail 12", 16" and 18" Panel Width (PS) PANEL SYSTEM ASSEMBLIES

(5) #44-1/8" STAINLESS STEEL RIVETS, PRE-PAINTED TO MATCH PANELS. MAXIMUM SPACING TO BE 6' o.c.

(5) #44-1/8" STAINLESS STEEL RIVETS SPACED AS SHOWN. (typ.)



PANEL DIAGRAM FASTENER LOCATION

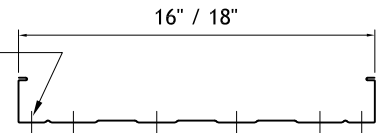
VALLEY CLOSURE X 10'-0" RIVETED TO PANEL EDGE AS ILLUSTRATED.

TURN PANEL SEAM CAP DOWN 3/4" IN THE FIELD. DO NOT CUT THE SEAM CAP.

(6) #44-1/8" STAINLESS STEEL RIVETS, PRE-PAINTED TO MATCH PANELS. MAXIMUM SPACING TO BE 6' o.c.

EXTEND THE TWO BEADS OF GUNABLE, NON-CURING ACRYLIC SEALANT INSIDE THE PANEL LEGS DOWN THE FOAM CLOSURE FORMING A CONTINUOUS SEALANT BED SANDWICHED BETWEEN THE PANEL LEGS.

(6) #44-1/8" STAINLESS STEEL RIVETS SPACED AS SHOWN. (typ.)



PANEL DIAGRAM FASTENER LOCATION

VALLEY CLOSURE X 10'-0" RIVETED TO PANEL EDGE AS ILLUSTRATED.

1" LAP @ JOINTS. DO NOT PENETRATE LAP WITH RIVETS.

NOTCH OUT AND DISCARD LOWER TAB.

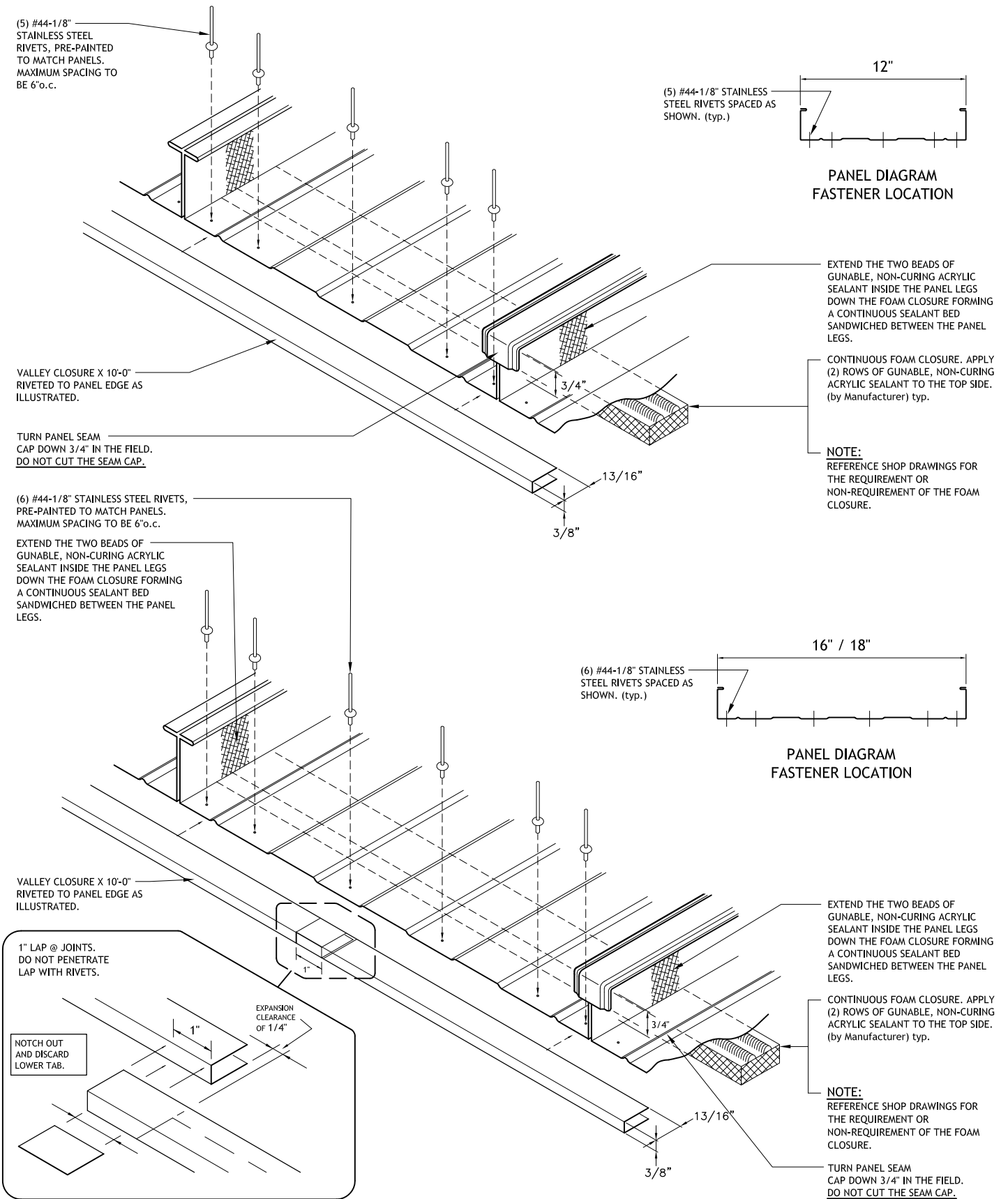
EXPANSION CLEARANCE OF 1/4"

EXTEND THE TWO BEADS OF GUNABLE, NON-CURING ACRYLIC SEALANT INSIDE THE PANEL LEGS DOWN THE FOAM CLOSURE FORMING A CONTINUOUS SEALANT BED SANDWICHED BETWEEN THE PANEL LEGS.

CONTINUOUS FOAM CLOSURE. APPLY (2) ROWS OF GUNABLE, NON-CURING ACRYLIC SEALANT TO THE TOP SIDE. (by Manufacturer) typ.

NOTE: REFERENCE SHOP DRAWINGS FOR THE REQUIREMENT OR NON-REQUIREMENT OF THE FOAM CLOSURE.

TURN PANEL SEAM CAP DOWN 3/4" IN THE FIELD. DO NOT CUT THE SEAM CAP.



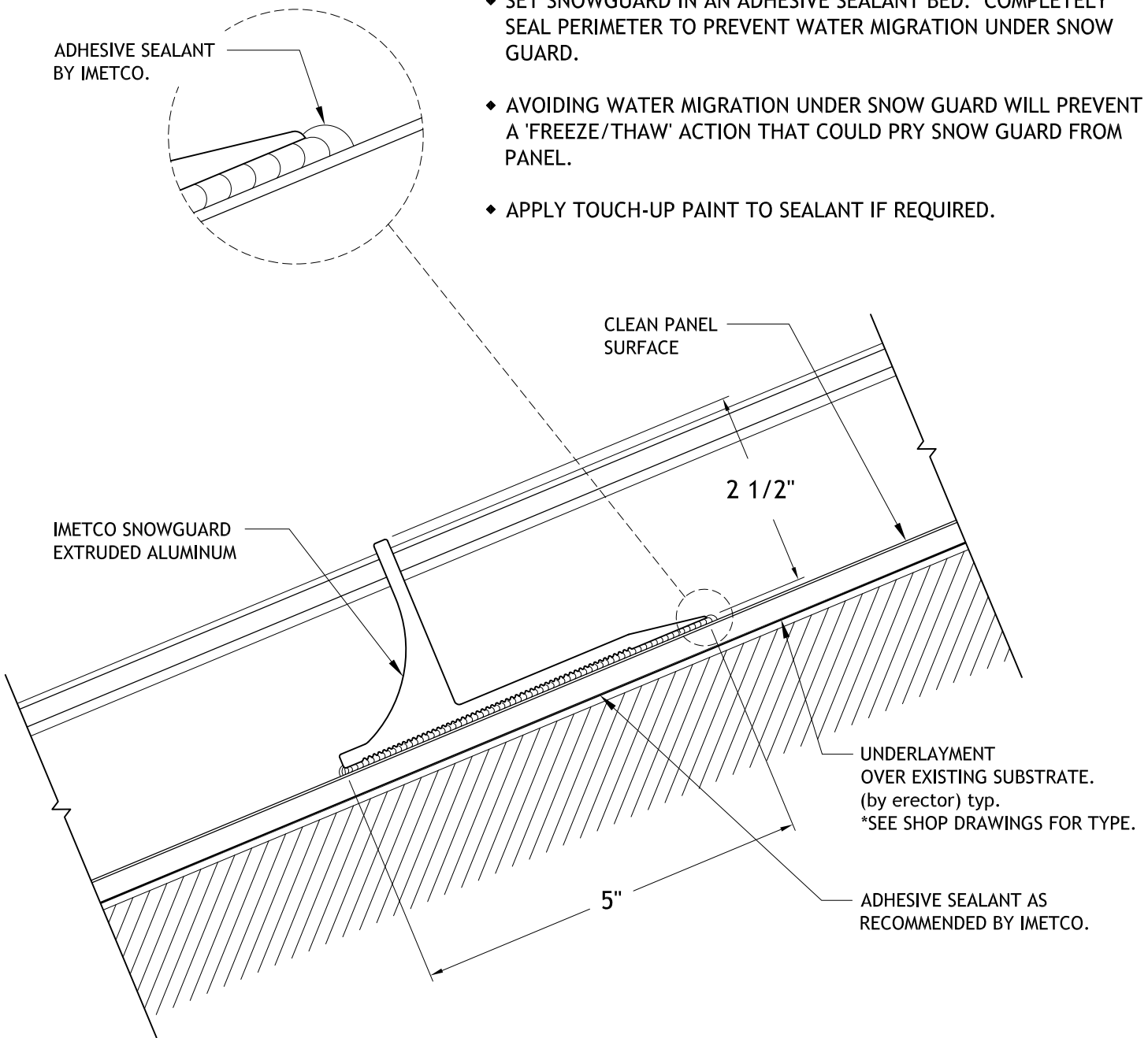
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Valley Closure Detail 12", 16" and 18" Panel Width (PS) PANEL SYSTEM ASSEMBLIES

SNOWGUARD ATTACHMENT DETAIL:

*ADHESIVE TYPE

- ◆ SET SNOWGUARD IN AN ADHESIVE SEALANT BED. COMPLETELY SEAL PERIMETER TO PREVENT WATER MIGRATION UNDER SNOW GUARD.
- ◆ AVOIDING WATER MIGRATION UNDER SNOW GUARD WILL PREVENT A 'FREEZE/THAW' ACTION THAT COULD PRY SNOW GUARD FROM PANEL.
- ◆ APPLY TOUCH-UP PAINT TO SEALANT IF REQUIRED.





ALWAYS REFERENCE SHOP DRAWINGS FOR APPROPRIATE NUMBER OF SNOW GUARDS AND THEIR LOCATIONS. AS WELL, REFERENCE THE ASSOCIATED SNOW GUARD DETAILS IN THIS SECTION FOR FURTHER INFORMATION.



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**Adhered Snow Guard
 Attachment Detail
 (PS) PANEL SYSTEM ASSEMBLIES**

- ◆ Air temperature must be above 50° F for the entire curing time (day and night) with no anticipated rain for at least 48 hours and no snowfall for at least (5) five days.
- ◆ The Panel surface must be clean and dry. The surface on which the snow guard is to be installed may be cleaned with isopropyl alcohol. Any damp surfaces should be dried with an absorbent cloth. Again, the surface must be clean and completely dry.
- ◆ Apply the supplied sealant to the scored side of the snow guard so that when installed, a continuous bed of sealant will adhere the snow guard to the panel surface.
- ◆ Position the snow guard onto the panel and apply pressure to force the sealant out and around the top edge and sides of the snow guard. Next, remove for 5 to 10 seconds to allow the sealant to begin curing. Reposition snow guard to the panel surface. When repositioning, be certain the sealant forms a continuous seal around the snow guard's perimeter. This will prevent melted snow and rain from collecting under the snow guard. See attached details. Check for proper placement dimensions, quantity of snow guards per panel, and aesthetic alignment of each individual guard.
- ◆ On sunny days or during warm weather, it is recommended that the snow guard be temporarily taped into position for at least 24 hours. This allows the sealant to develop sufficient adhesion in order to hold the snow guard in place. Masking tape is to be applied carefully across the snow guard's top surface.
- ◆ After the sealant has developed sufficient adhesion, any masking tape is then to be carefully removed. Areas of exposed sealant may be touched-up with paint that matches the panel surface if required.

NOTE:

Snow guard adhesive sealant is sold (12) tubes per case. Approximately 100 snow guards can be applied per case.



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**Adhered Snow Guard
Installation Instructions
(PS) PANEL SYSTEM ASSEMBLIES**



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Section **RA**

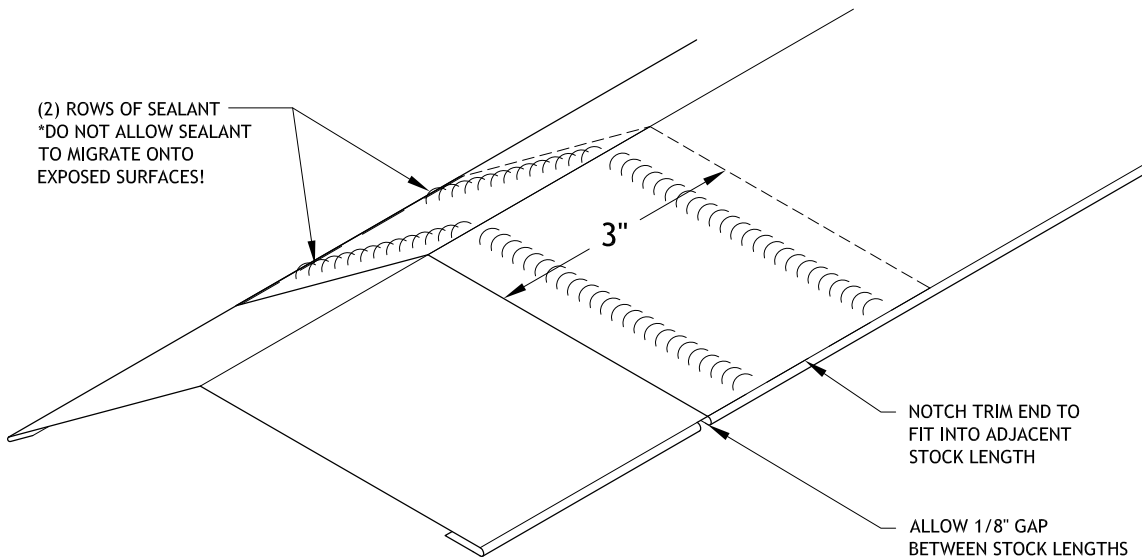
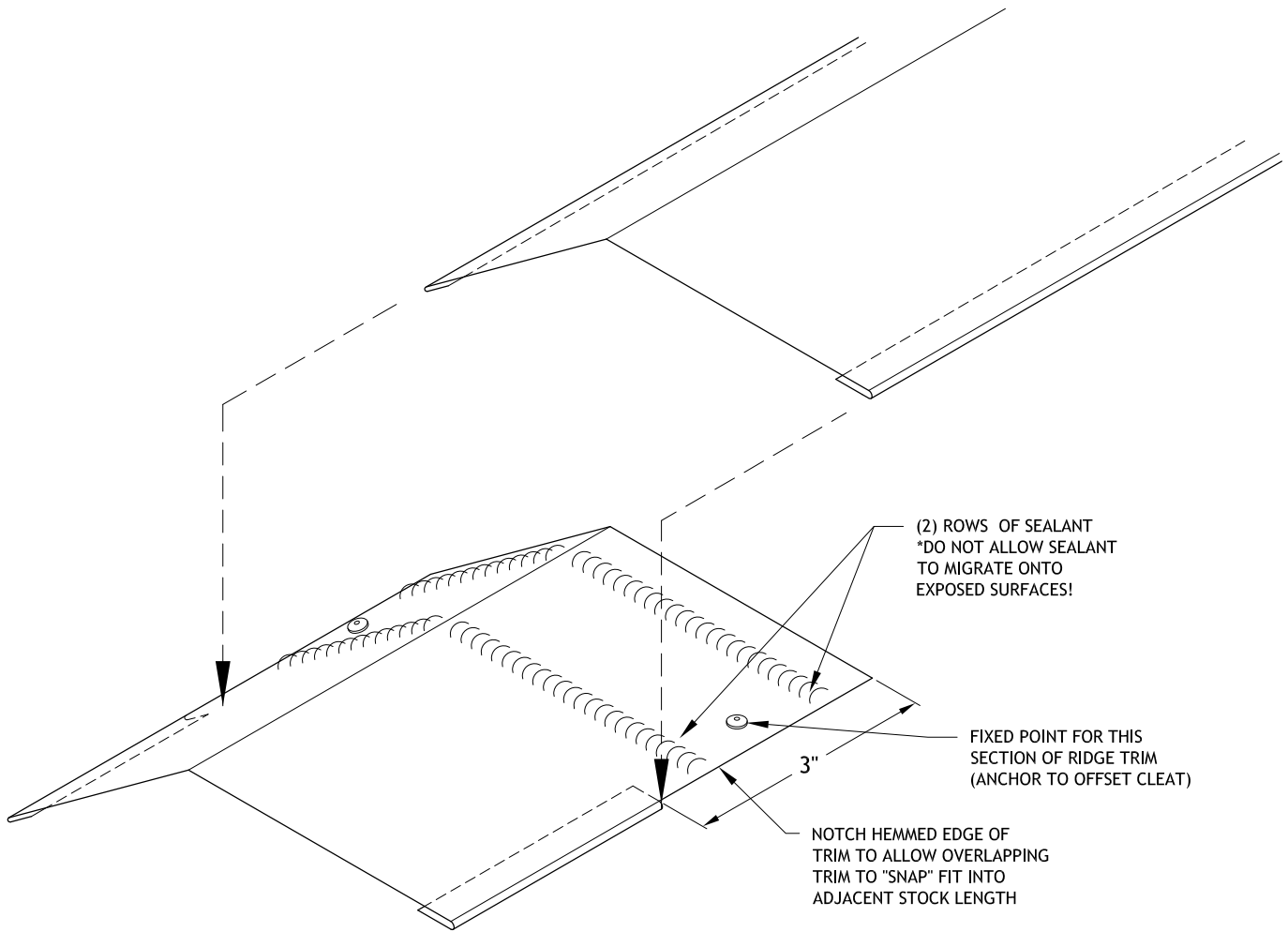
ROOF APPLICATIONS SUPPORT



The following series of details is provided as a supplement to the 11" x 17" shop drawings.
ALWAYS start with your shop drawings! They will govern specific component assemblies.

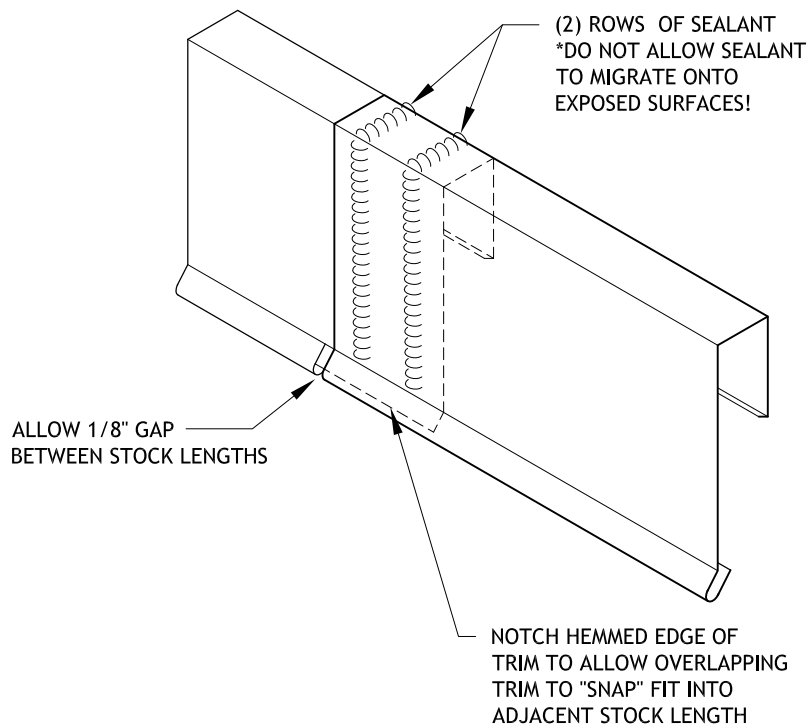
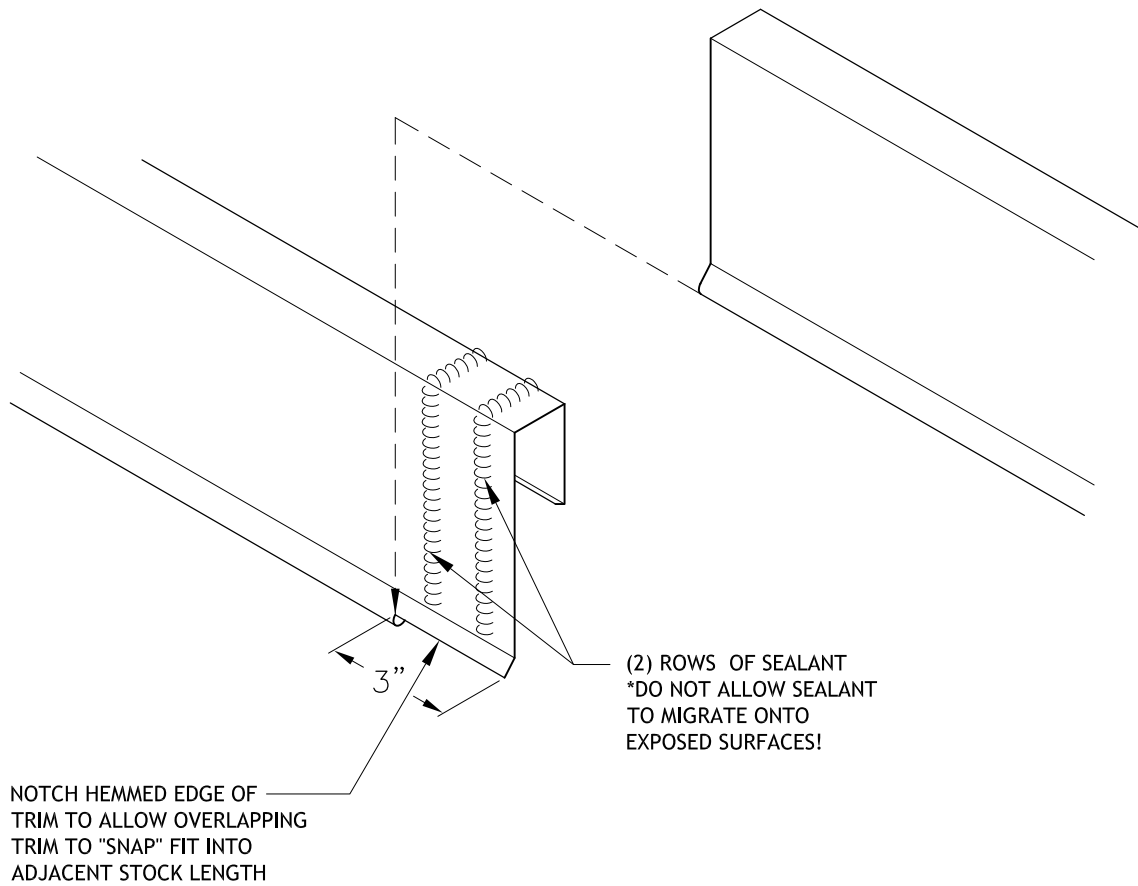
SECTION CONTENTS

DETAIL:	PAGE NO:
Trim Lap - Standard Ridge	TRIM-1.1
Trim Lap - Standard Rake	TRIM-1.2
Trim Lap - Standard Eave	TRIM-1.3
Trim Lap - Standard Head	TRIM-1.4
Trim Lap - Standard Valley	TRIM-1.5
Trim Lap - Standard Gutter (Option 1)	TRIM-1.6
Trim Lap - Standard Gutter (Option 2)	TRIM-1.7
Trim Lap - Standard Gutter with Aluminized Gutter Tape (Option 1)	TRIM-1.8
Trim Lap - Standard Gutter with Aluminized Gutter Tape (Option 2)	TRIM-1.9
Trim Lap - Standard Gutter Outlet Tube	TRIM-1.10
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Curb Assembly - Typical	CURB-1.2
Curb Assembly - Hot Flue	CURB-1.3
Curb Assembly - Chimney	CURB-1.4
Curb Assembly - Section A-A (Detail 1 of 5)	CURB-2.1
Curb Assembly - Section B-B (Detail 2 of 5)	CURB-2.2
Curb Assembly - Section C-C (Detail 3 of 5)	CURB-2.3
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Heavy-Duty Pipe Boot Detail - Through Panel Seam (Detail 1 of 2)	PIPE-3.1
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Downspout Assembly - Standard 3" x 4"	DS-1.1
Downspout Assembly - Standard 4" x 5"	DS-2.1
Downspout Assembly - Standard 5" x 6"	DS-3.1
Gutter Expansion Joint	GEJ-1.1



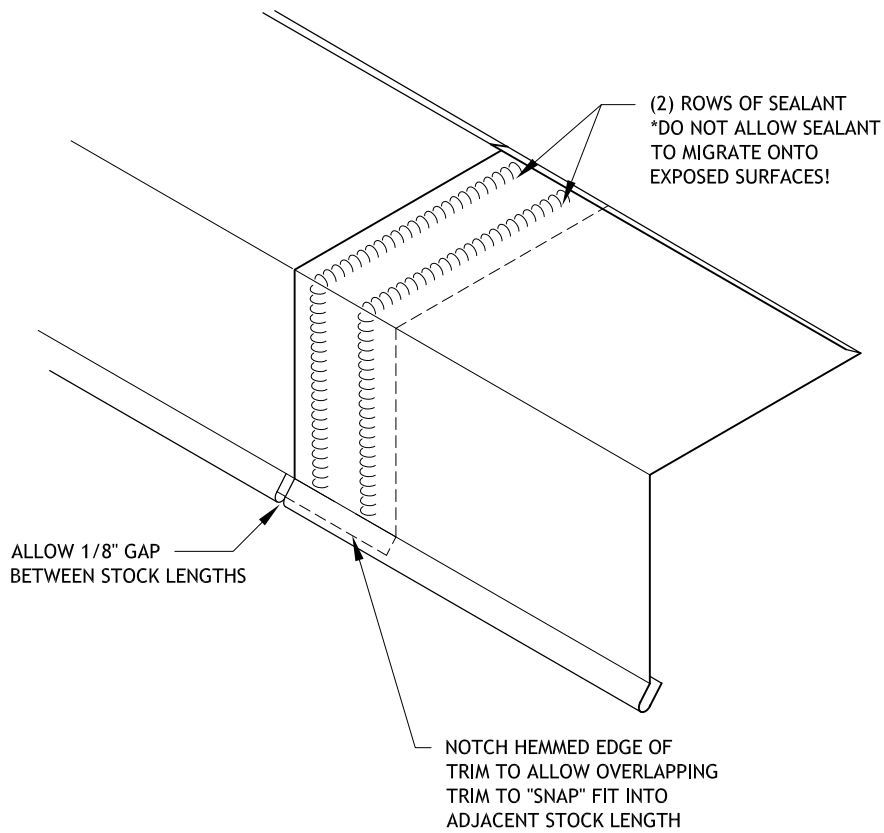
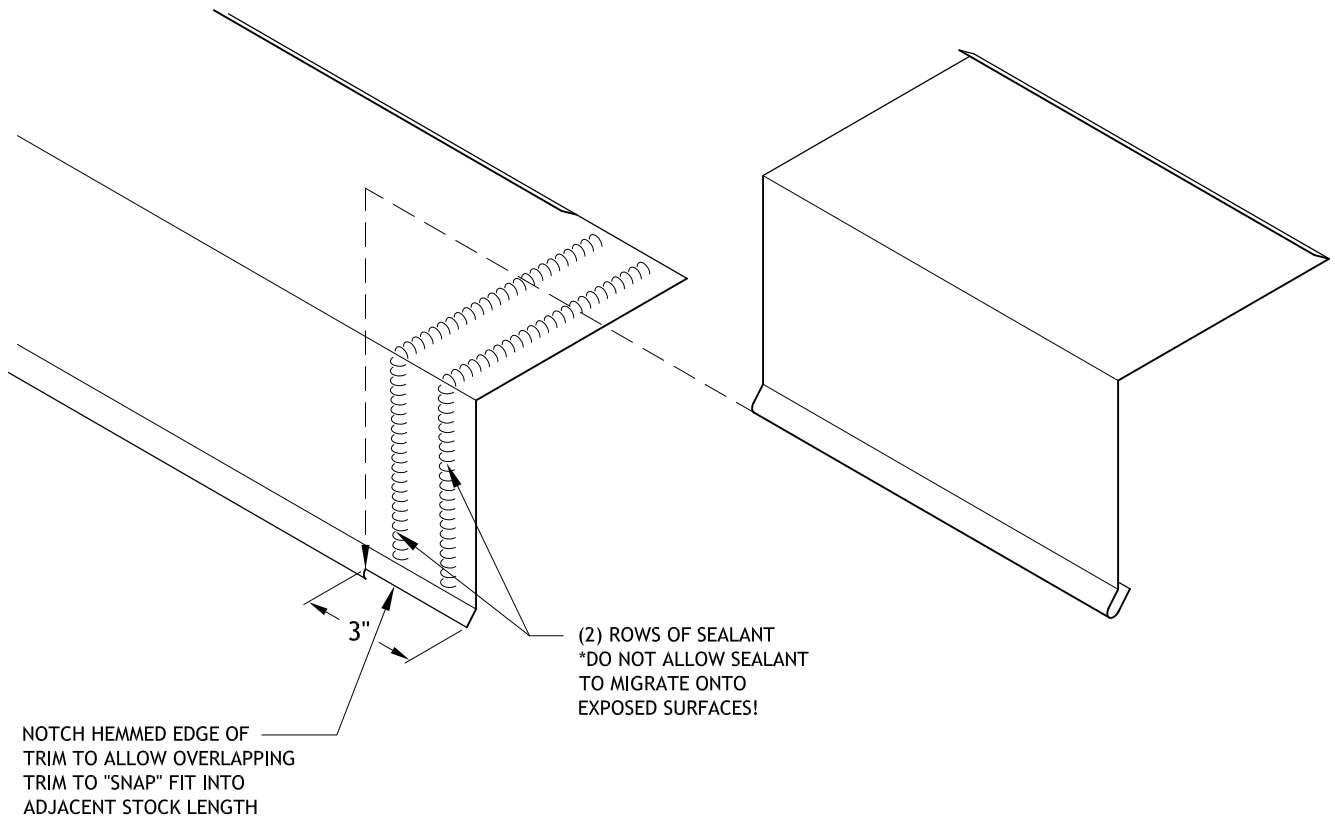
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Standard Ridge Trim End Lap Detail (RA) ROOF APPLICATIONS



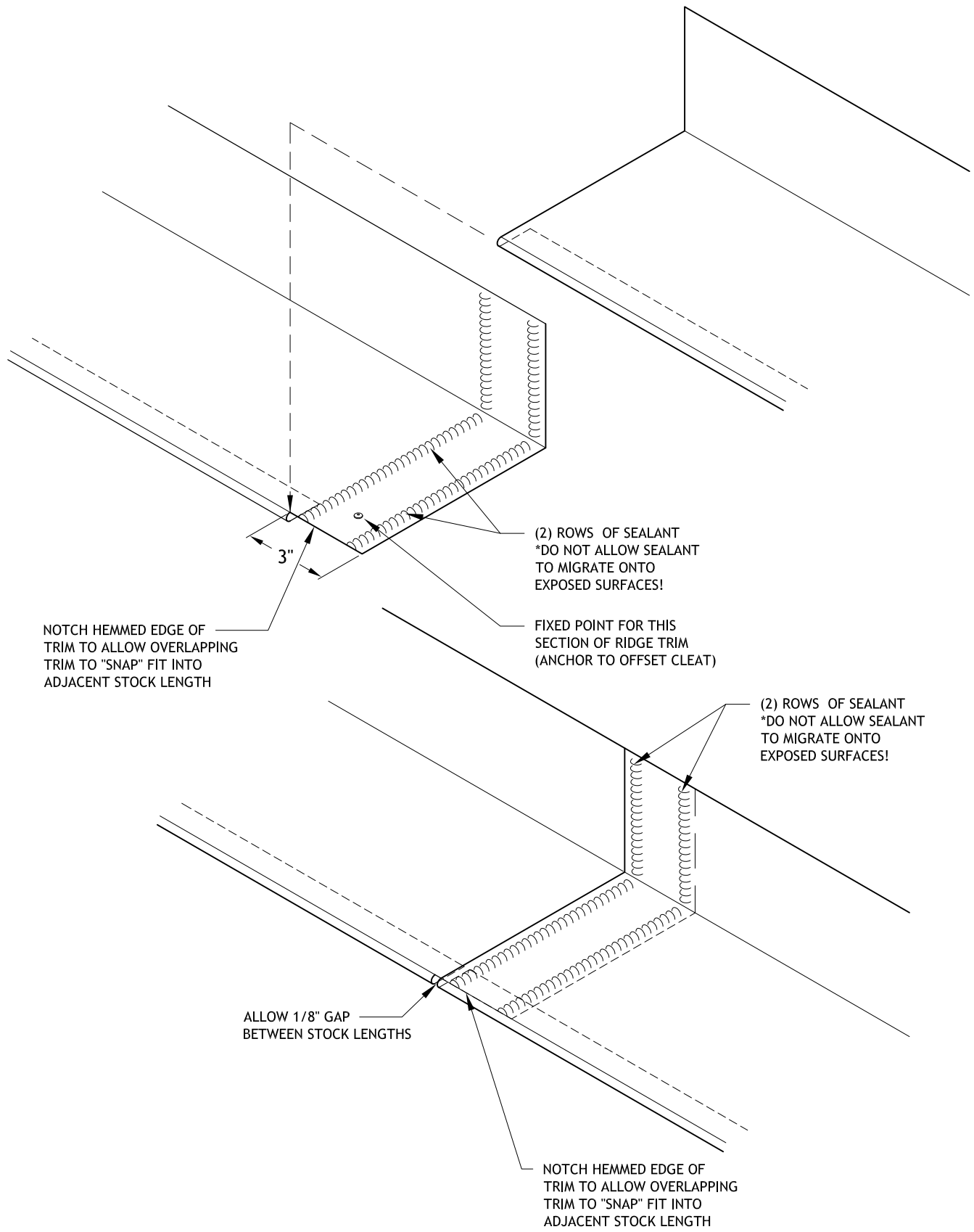
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Standard Rake Trim End Lap Detail (RA) ROOF APPLICATIONS



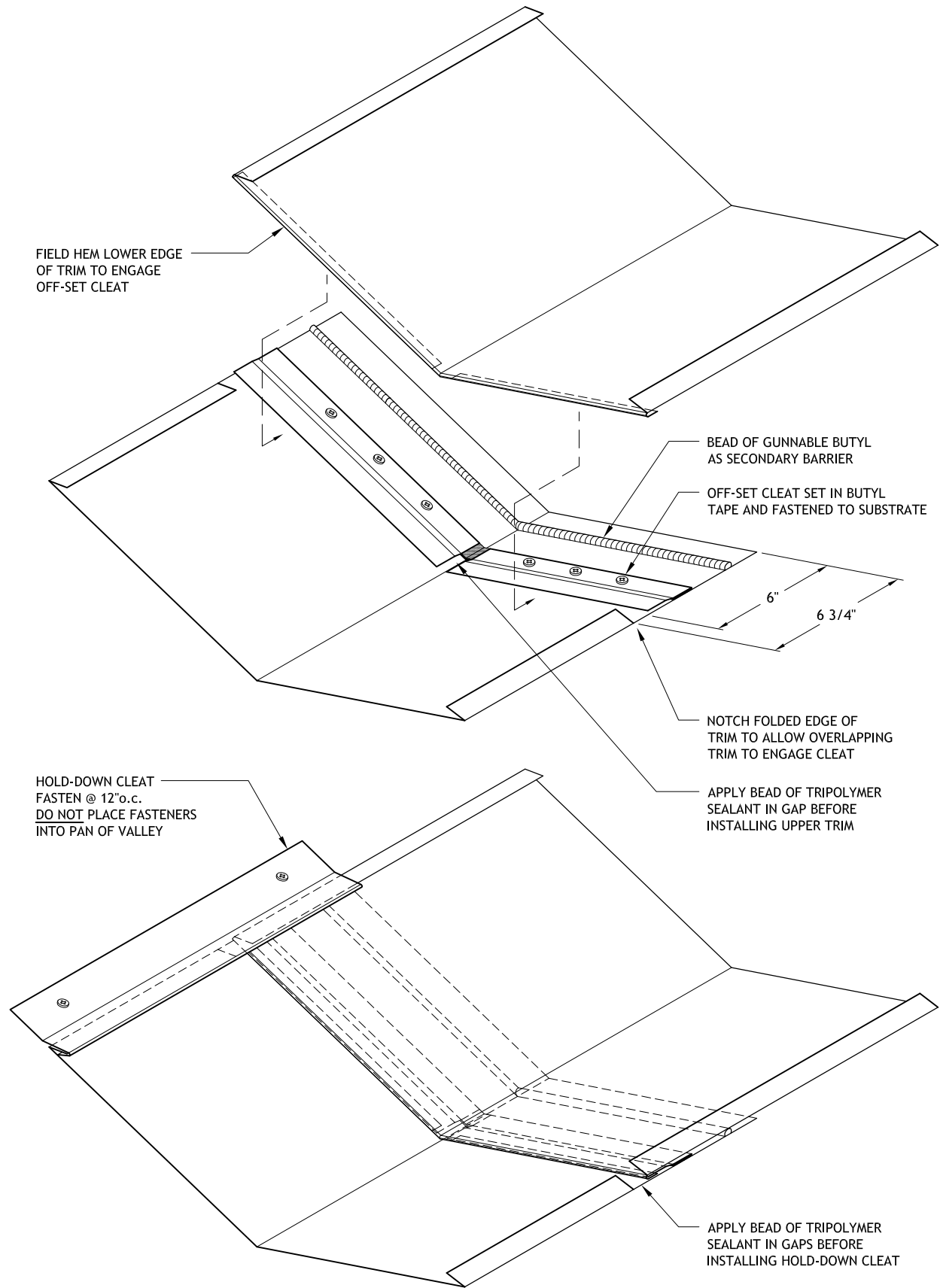
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Standard Eave Trim End Lap Detail (RA) ROOF APPLICATIONS



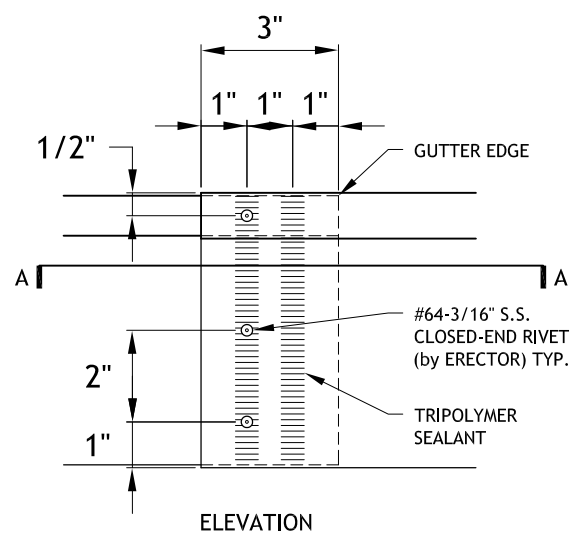
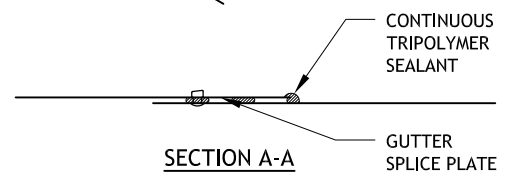
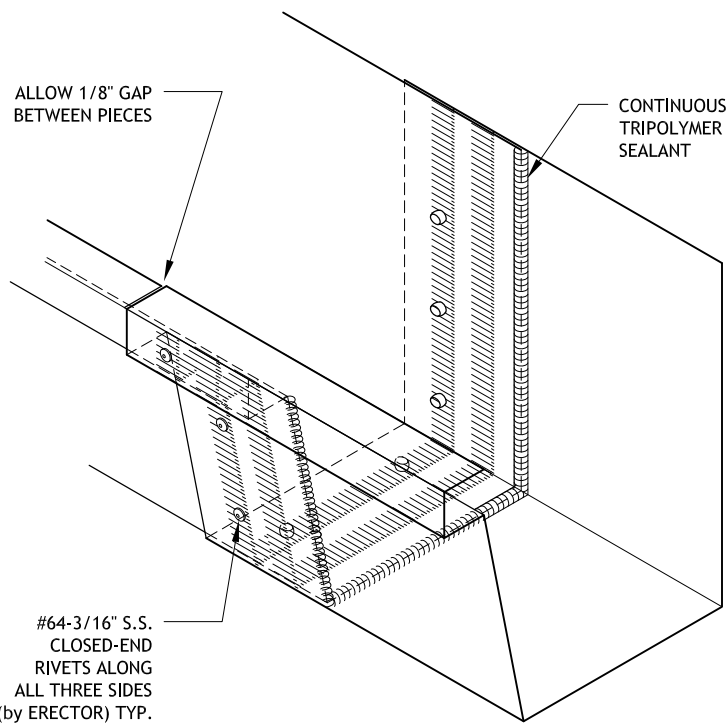
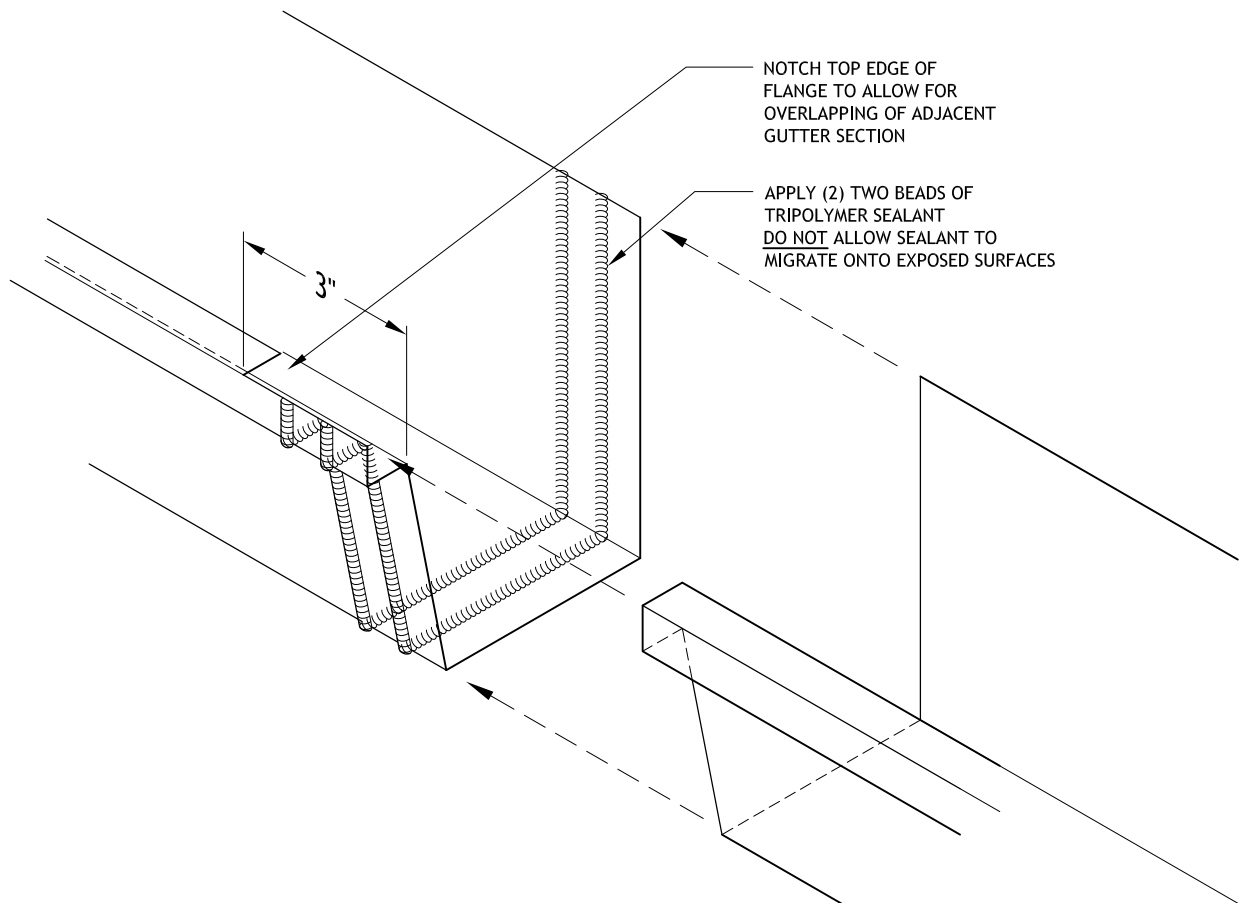
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Standard Head Trim End Lap Detail (RA) ROOF APPLICATIONS



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Standard Valley Trim End Lap Detail (RA) ROOF APPLICATIONS

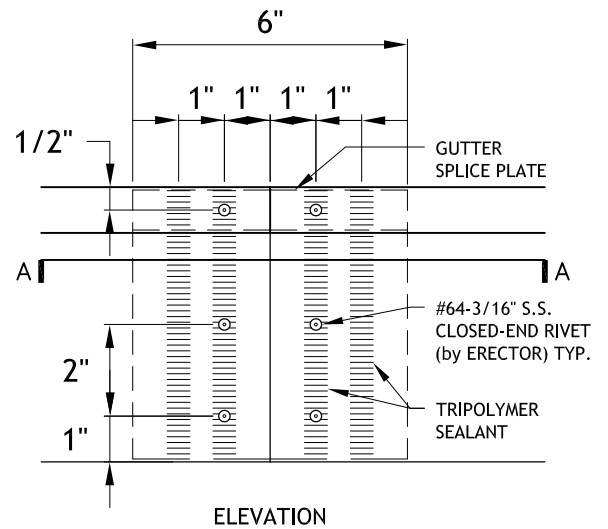
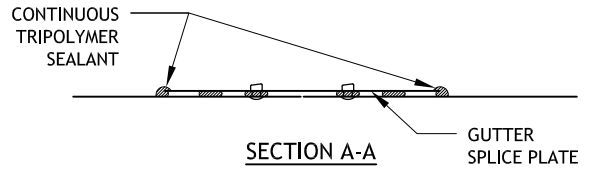
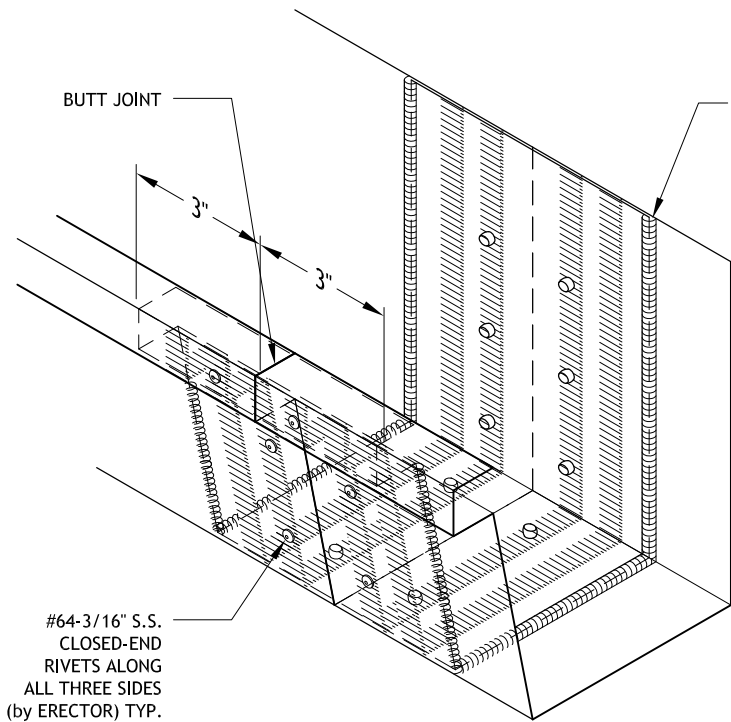
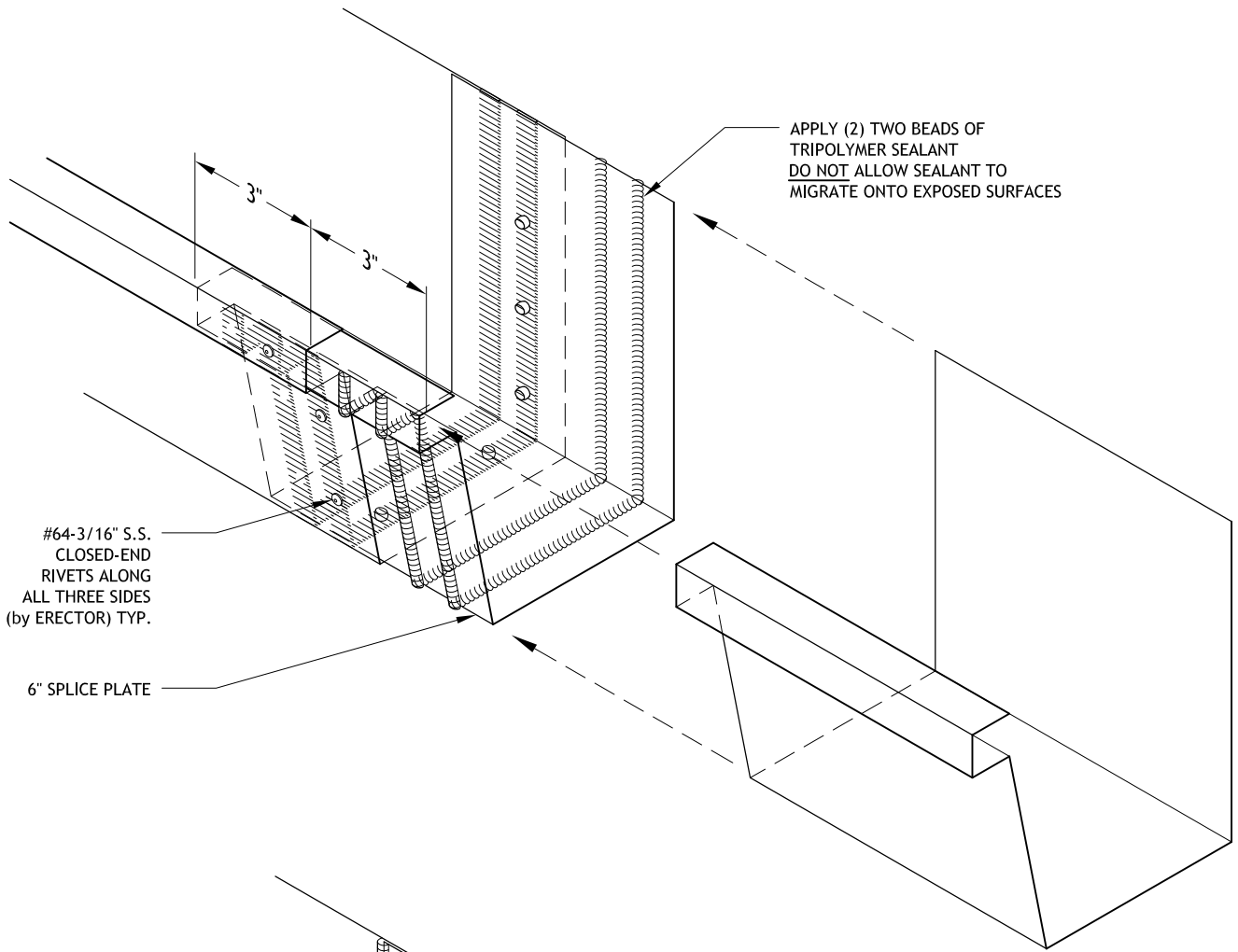


NOTE: GUTTER EXPANSION JOINT REQUIRED @ 50'-0" o.c. MAX. PER SMACNA GUIDELINES



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Standard Gutter Trim End Lap Detail - Option #1 (RA) ROOF APPLICATIONS

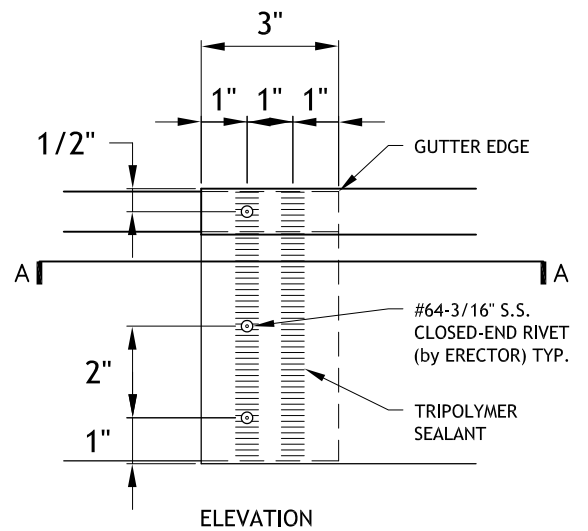
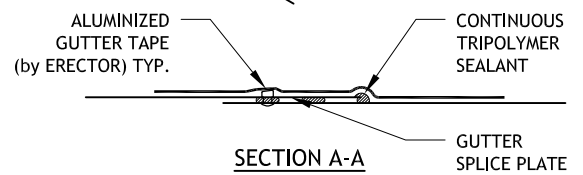
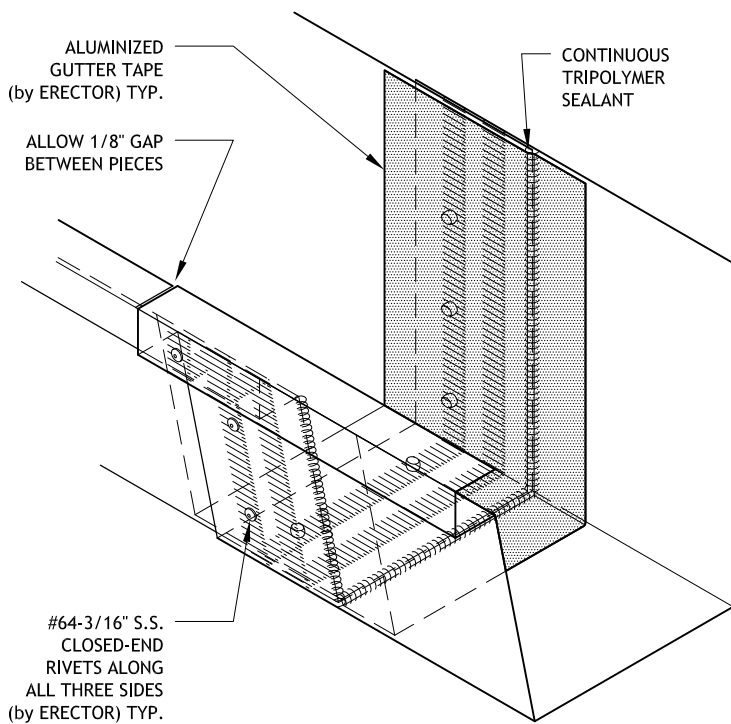
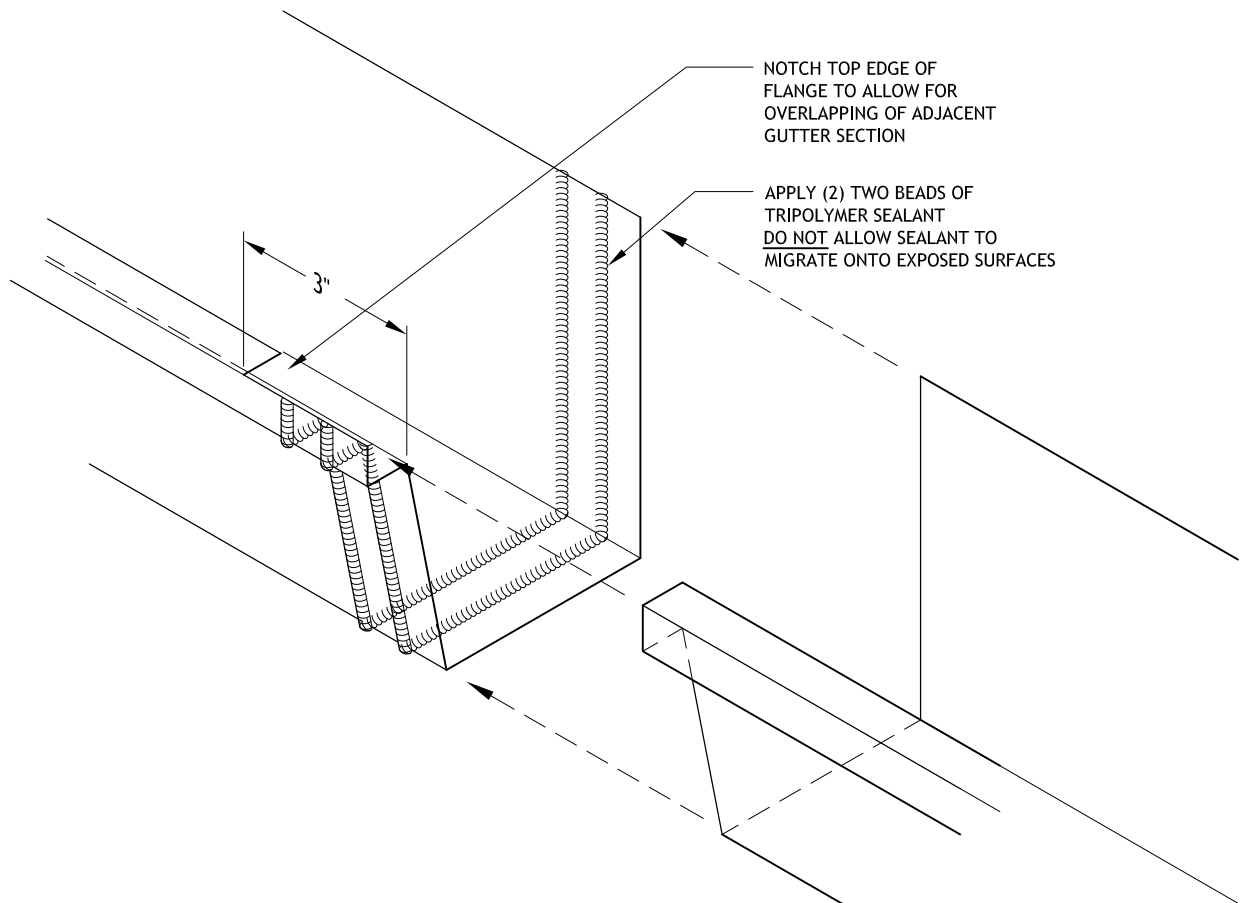


NOTE: GUTTER EXPANSION JOINT REQUIRED @ 50'-0" o.c. MAX. PER SMACNA GUIDELINES



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Standard Gutter Trim End Lap Detail - Option #2 (RA) ROOF APPLICATIONS

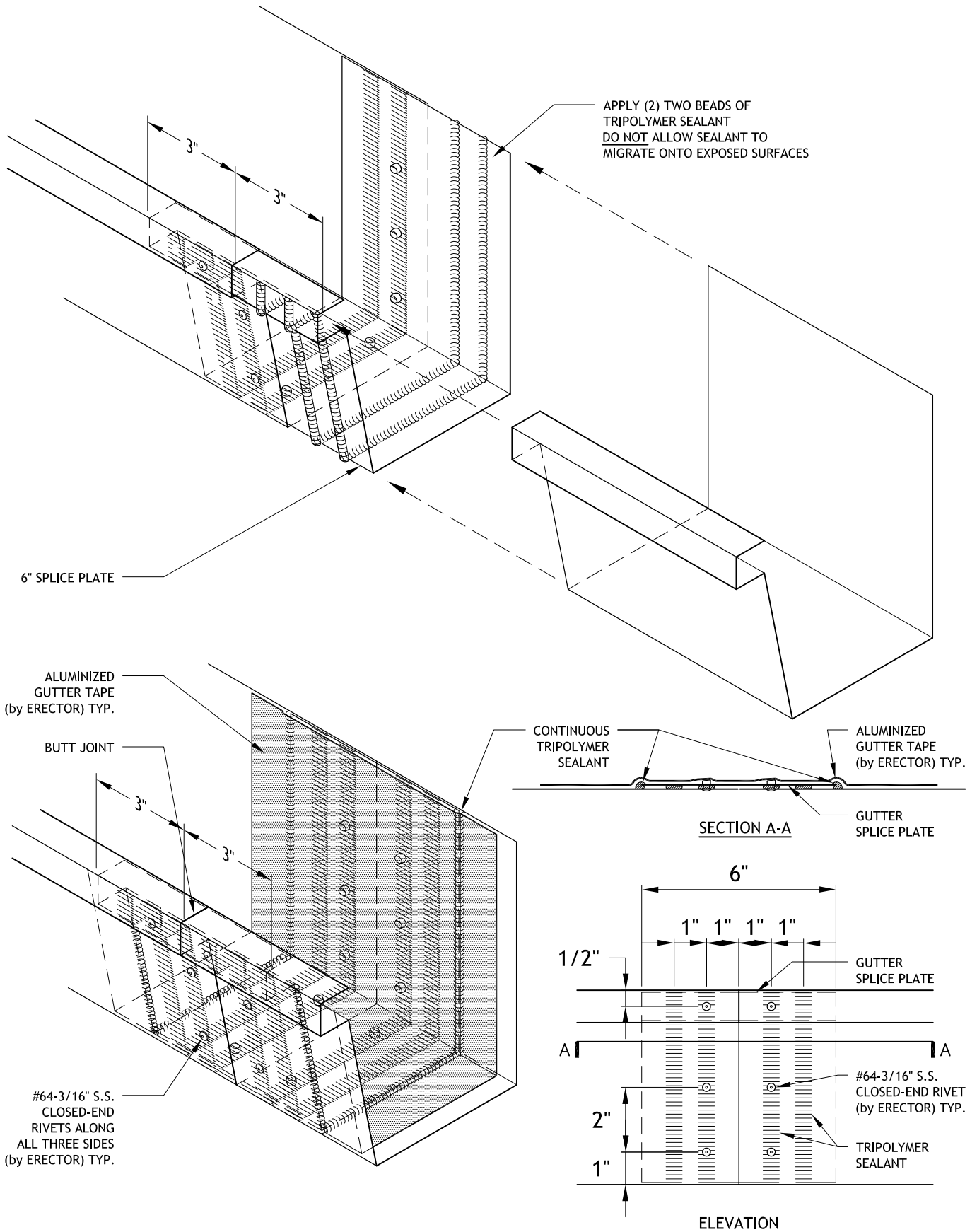


NOTE: GUTTER EXPANSION JOINT REQUIRED @ 50'-0" o.c. MAX. PER SMACNA GUIDELINES



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Standard Gutter Trim End Lap Detail Option #1 with Aluminized Gutter Tape (RA) ROOF APPLICATIONS

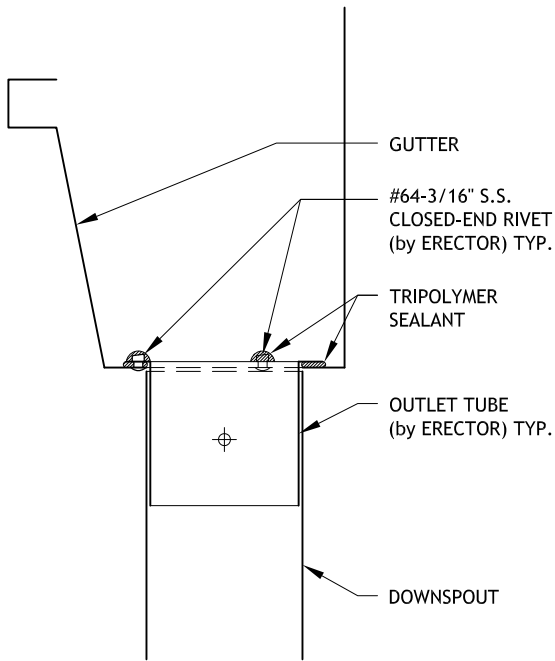


NOTE: GUTTER EXPANSION JOINT REQUIRED @ 50'-0" o.c. MAX. PER SMACNA GUIDELINES

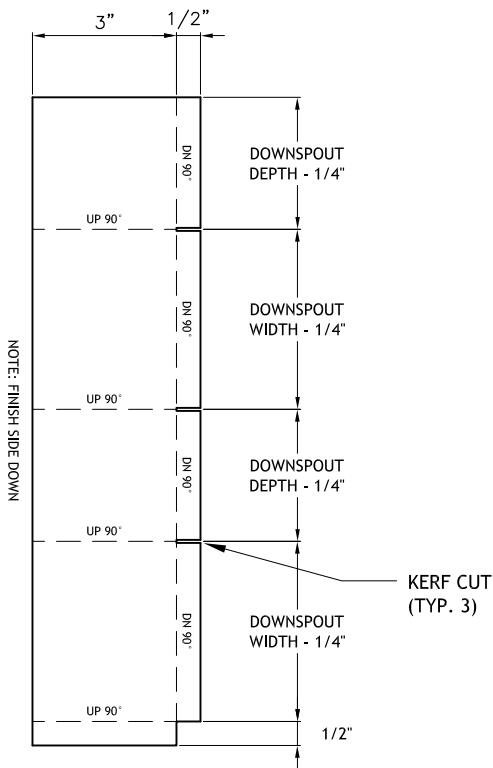


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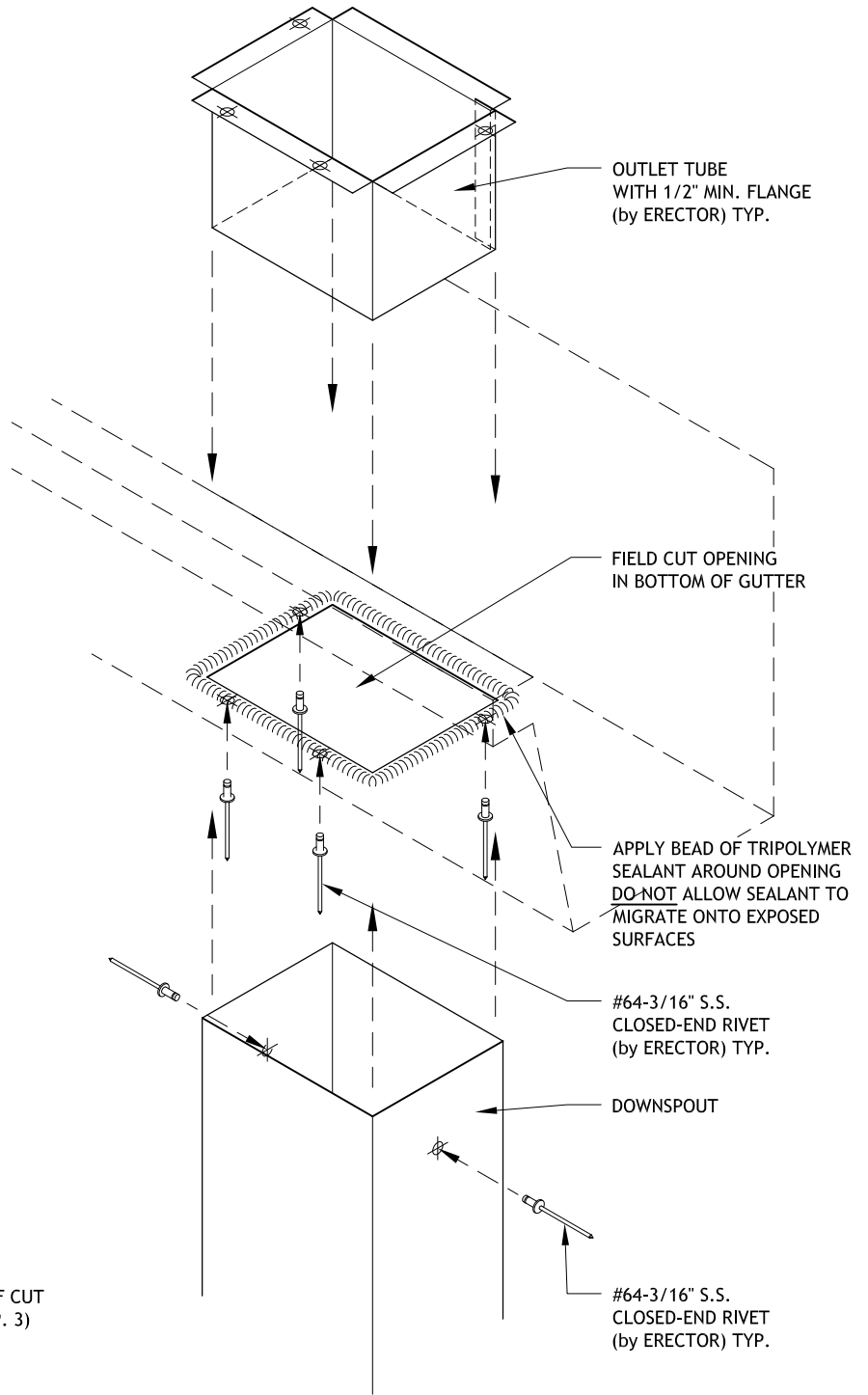
Standard Gutter Trim End Lap Detail Option #2 with Aluminumized Gutter Tape (RA) ROOF APPLICATIONS



SECTION



FLAT LAYOUT

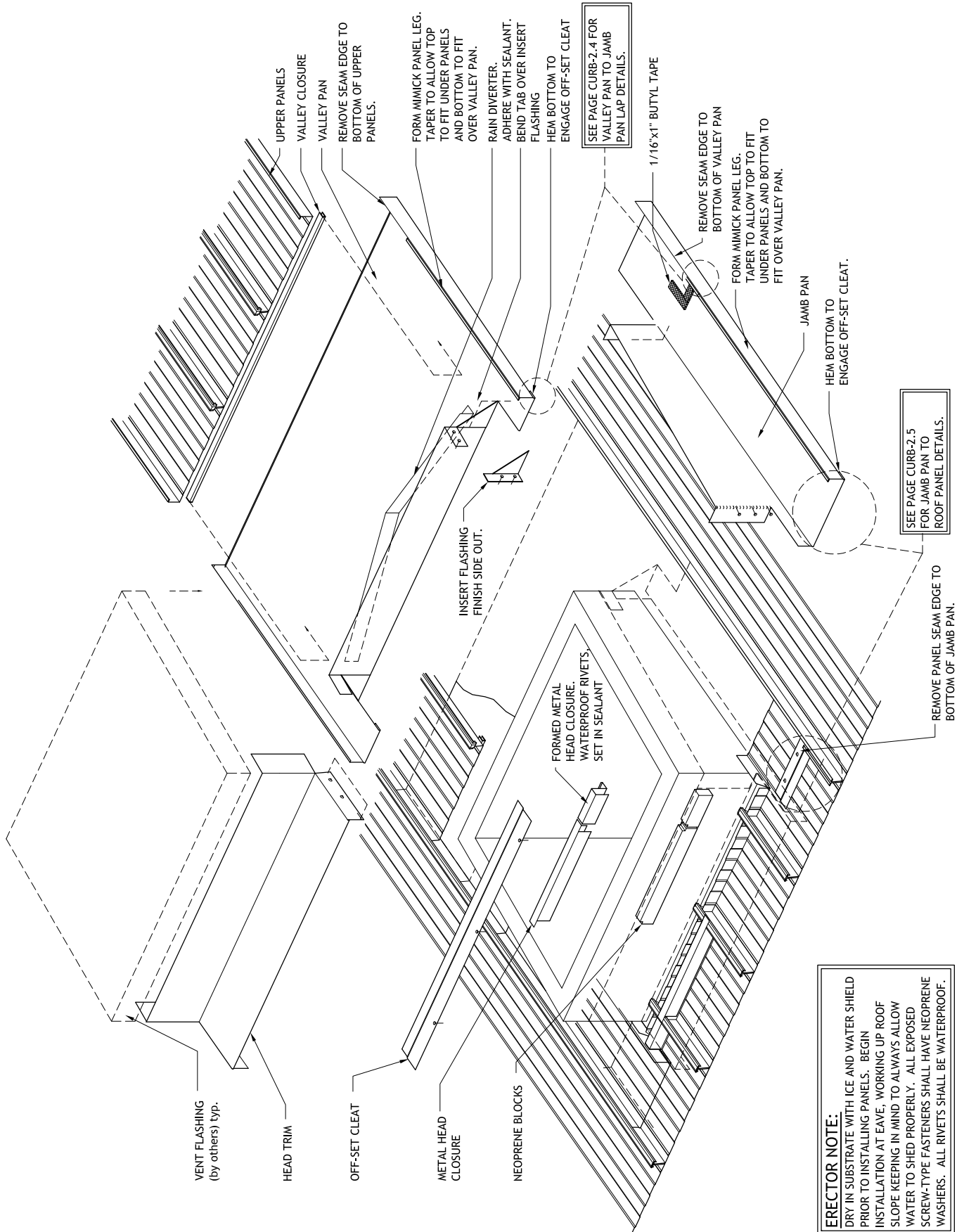


ISOMETRIC ASSEMBLY



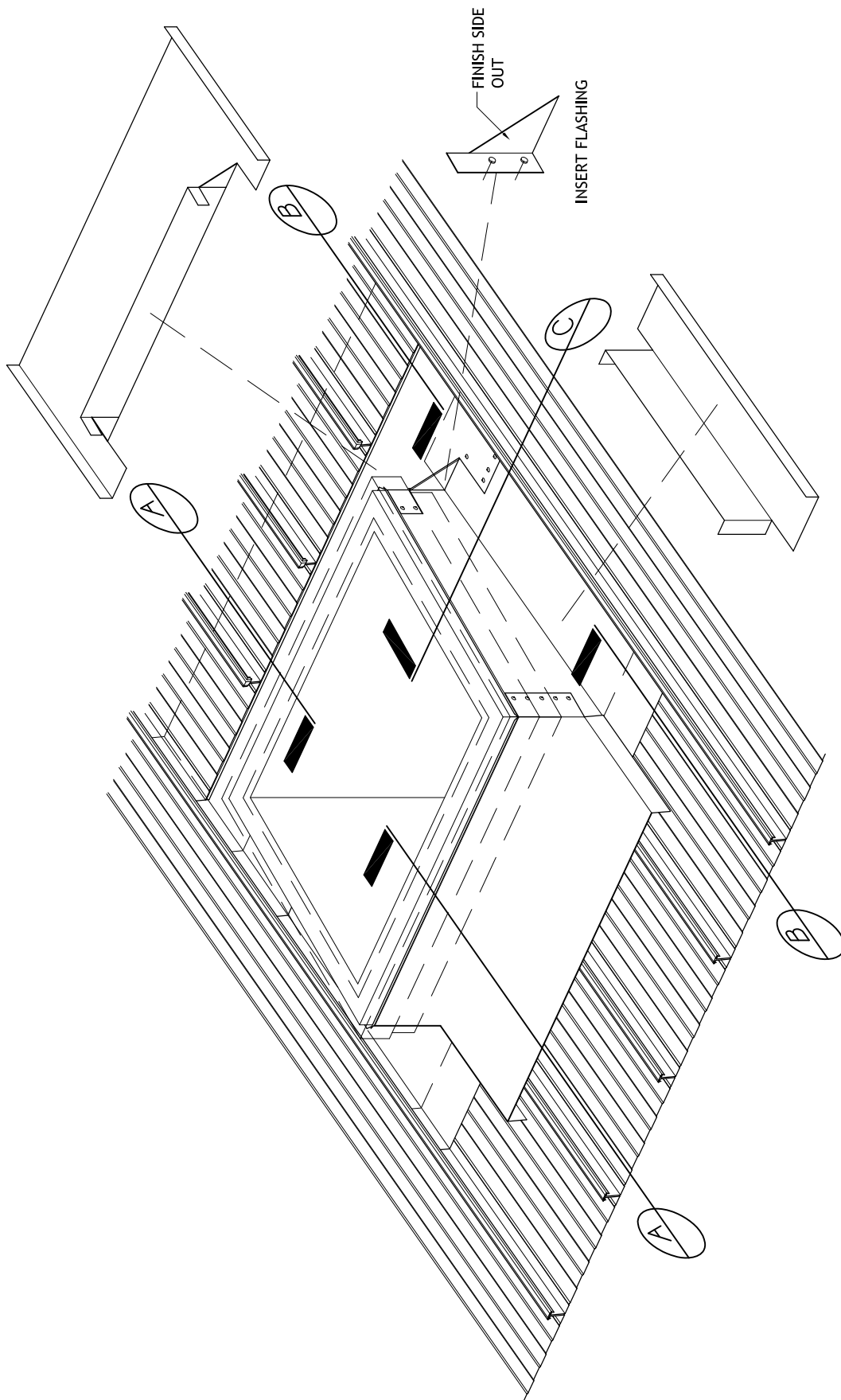
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Standard Gutter Outlet Tube (RA) ROOF APPLICATIONS



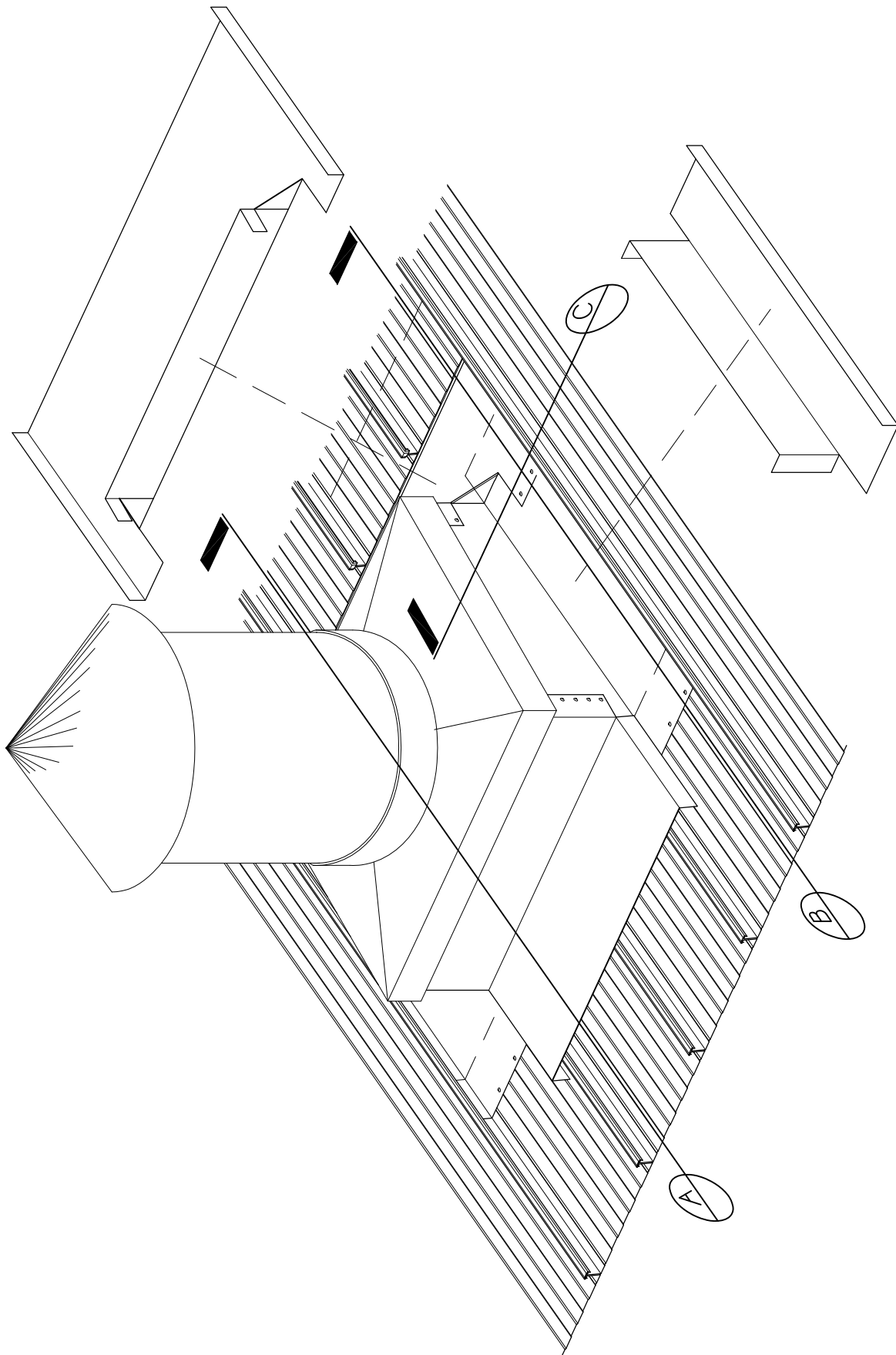
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Curb Assembly - Exploded View Refer to Supporting Details 1-5 (RA) ROOF APPLICATIONS



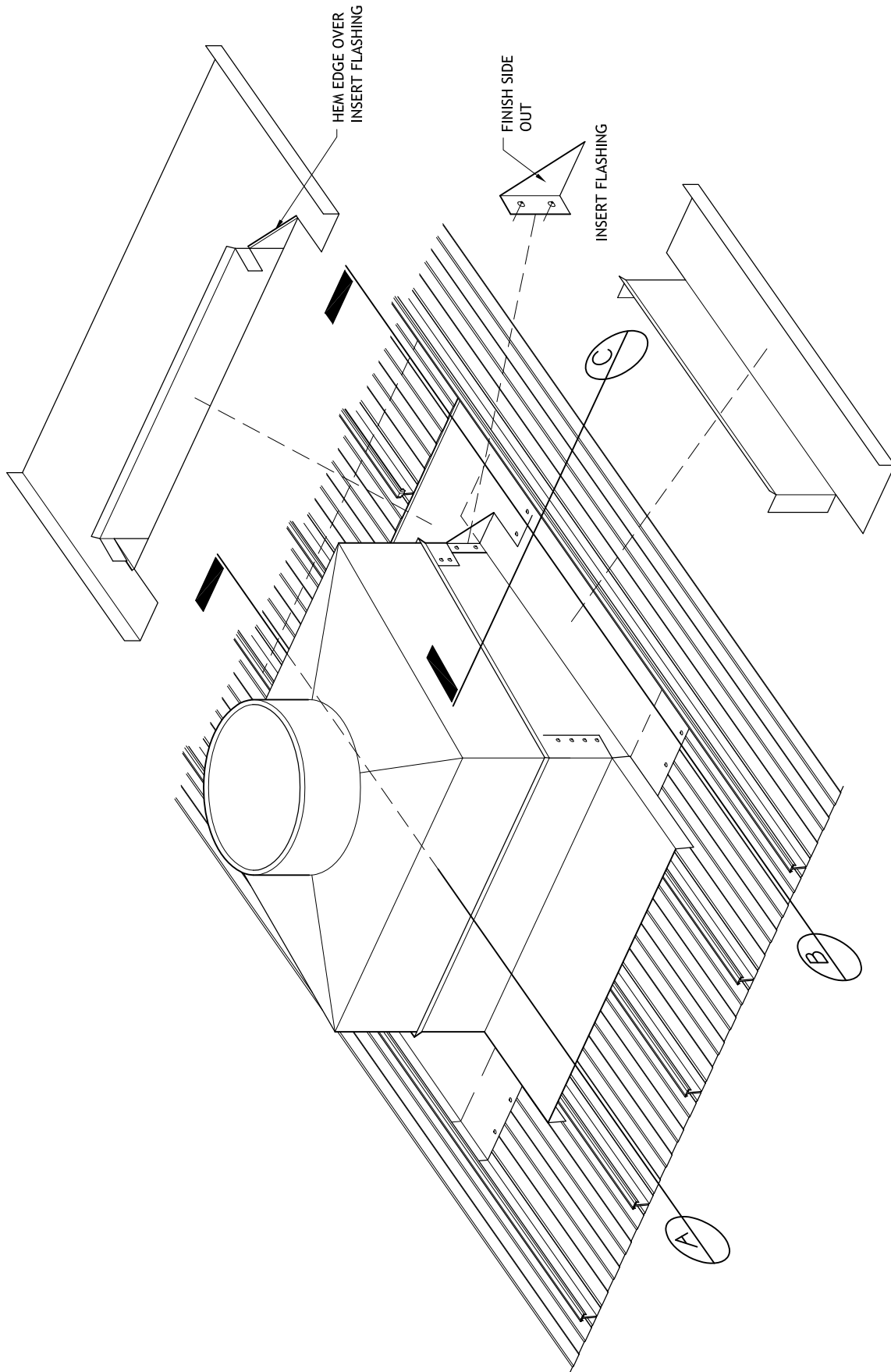
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Curb - Typical
Refer to Supporting Details 1-5
(RA) ROOF APPLICATIONS



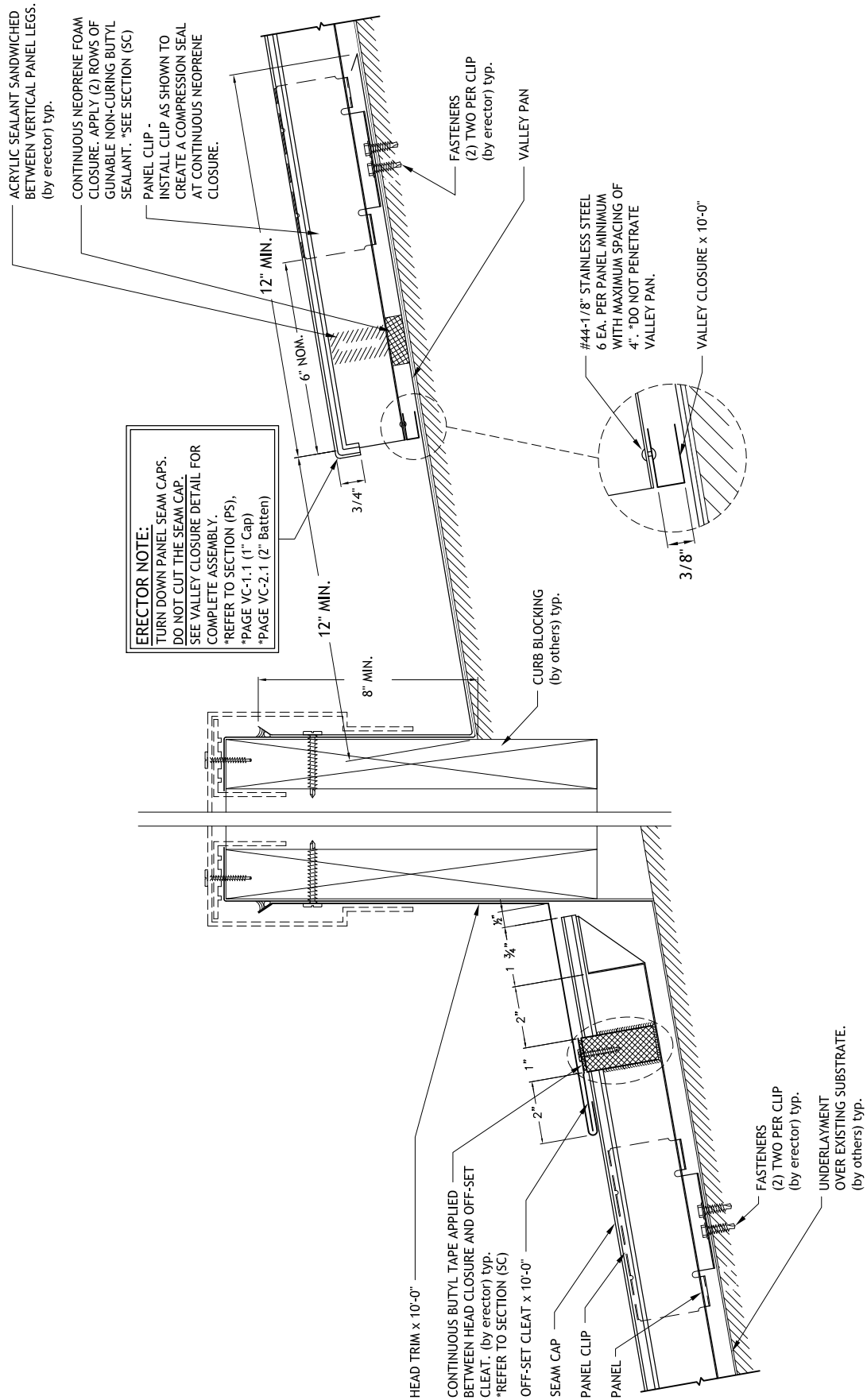
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Curb - Hot Flue
Refer to Supporting Details 1-5
(RA) ROOF APPLICATIONS



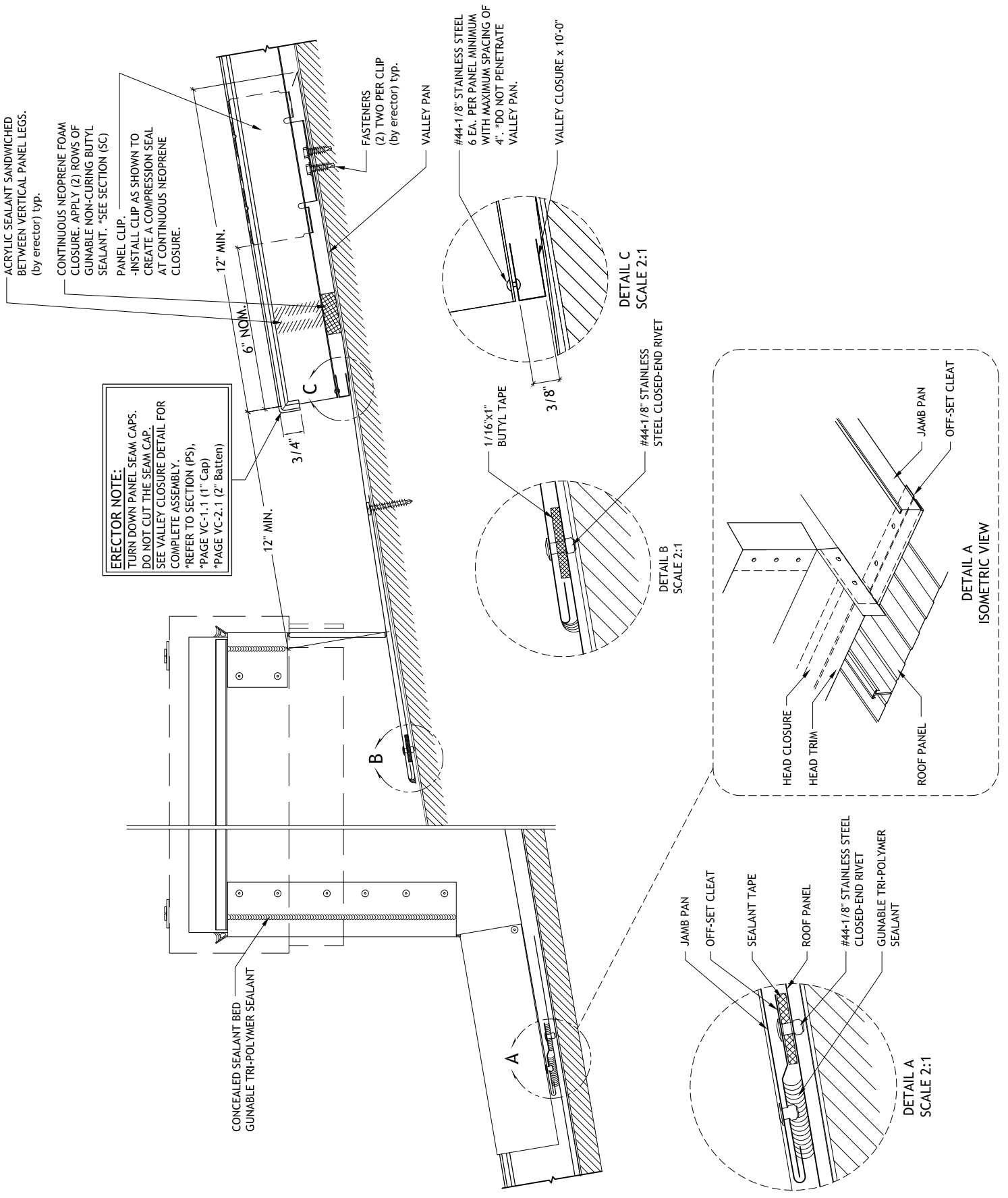
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Curb - Chimney
 Refer to Supporting Details 1-5
(RA) ROOF APPLICATIONS



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Curb Section A-A
 (Detail 1 of 5)
 (RA) ROOF APPLICATIONS



ERECTOR NOTE:
 TURN DOWN PANEL SEAM CAPS,
 DO NOT CUT THE SEAM CAP.
 SEE VALLEY CLOSURE DETAIL FOR
 COMPLETE ASSEMBLY.
 *REFER TO SECTION (P5),
 *PAGE VC-1.1 (1" Cap)
 *PAGE VC-2.1 (2" Batten)

DETAIL C
 SCALE 2:1

DETAIL B
 SCALE 2:1

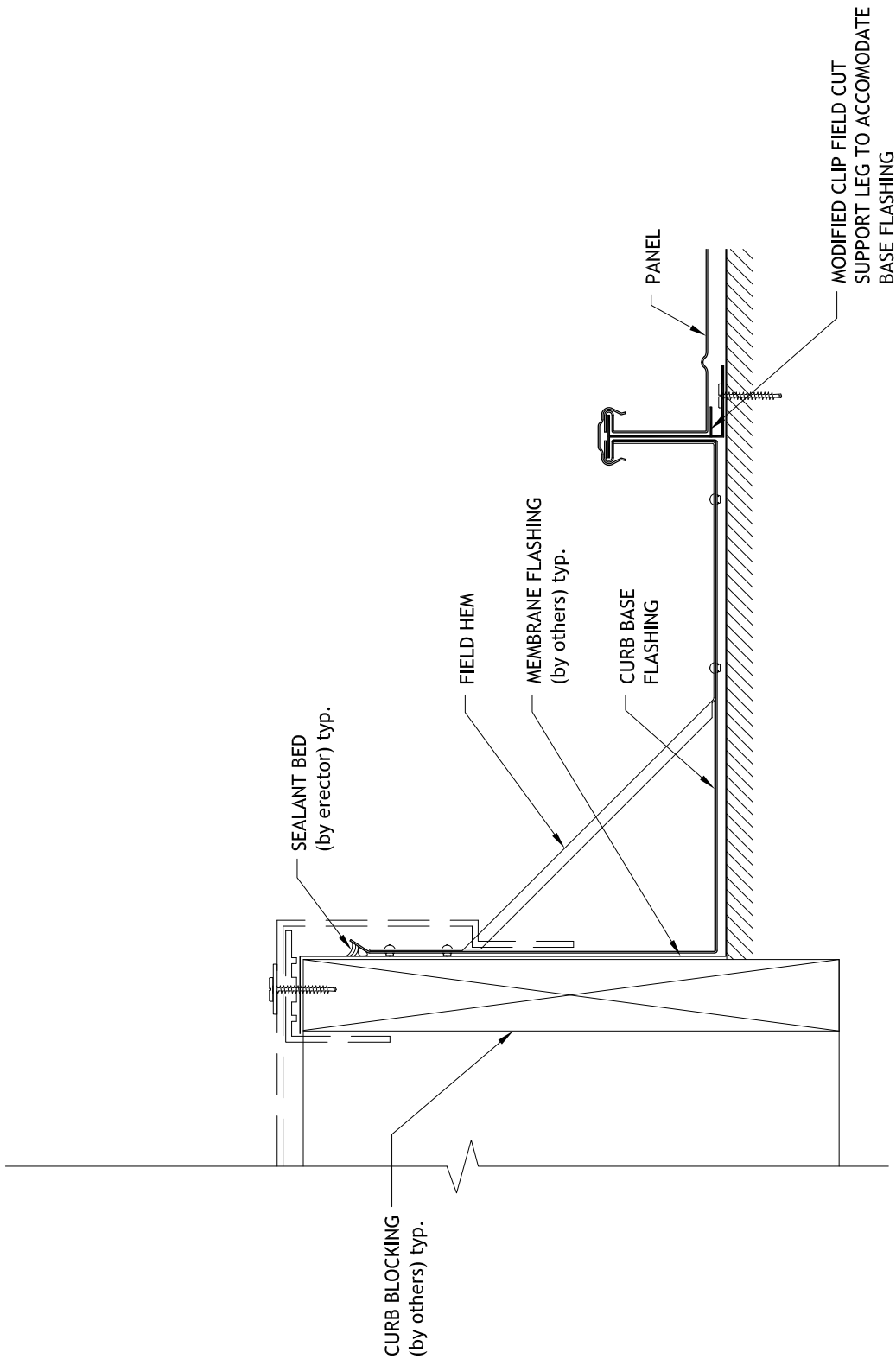
DETAIL A
 SCALE 2:1

DETAIL A
 ISOMETRIC VIEW



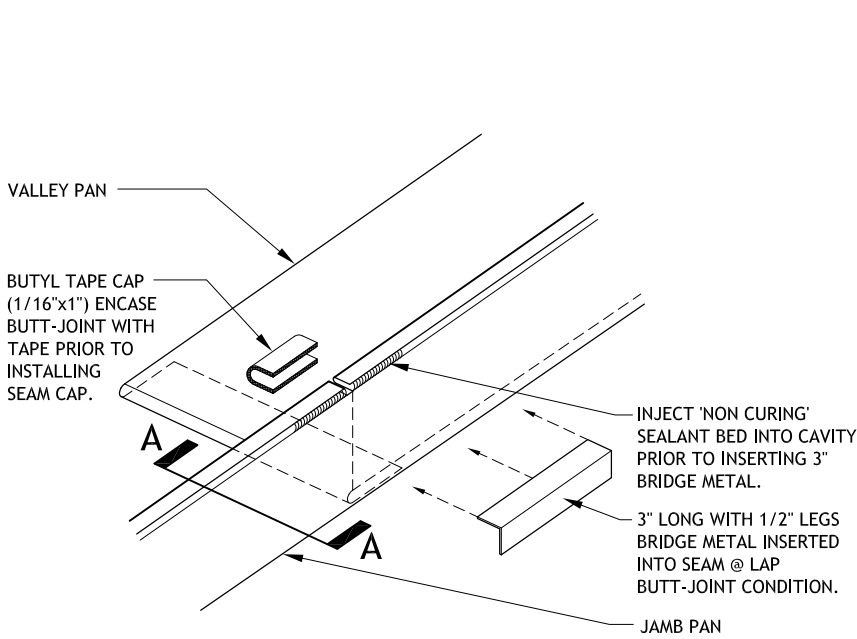
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Curb Section B-B
 (Detail 2 of 5)
 (RA) ROOF APPLICATIONS

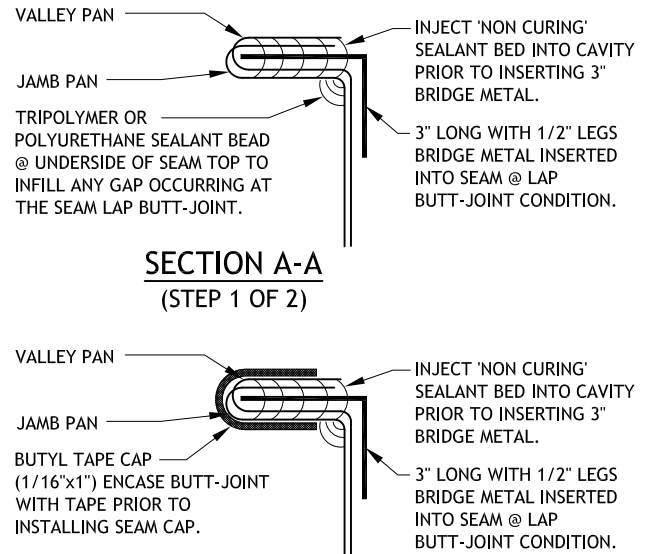


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**Curb Section C-C
 (Detail 3 of 5)
 (RA) ROOF APPLICATIONS**

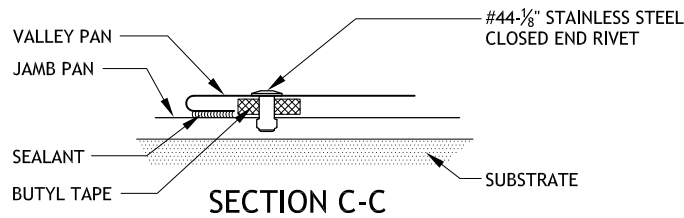
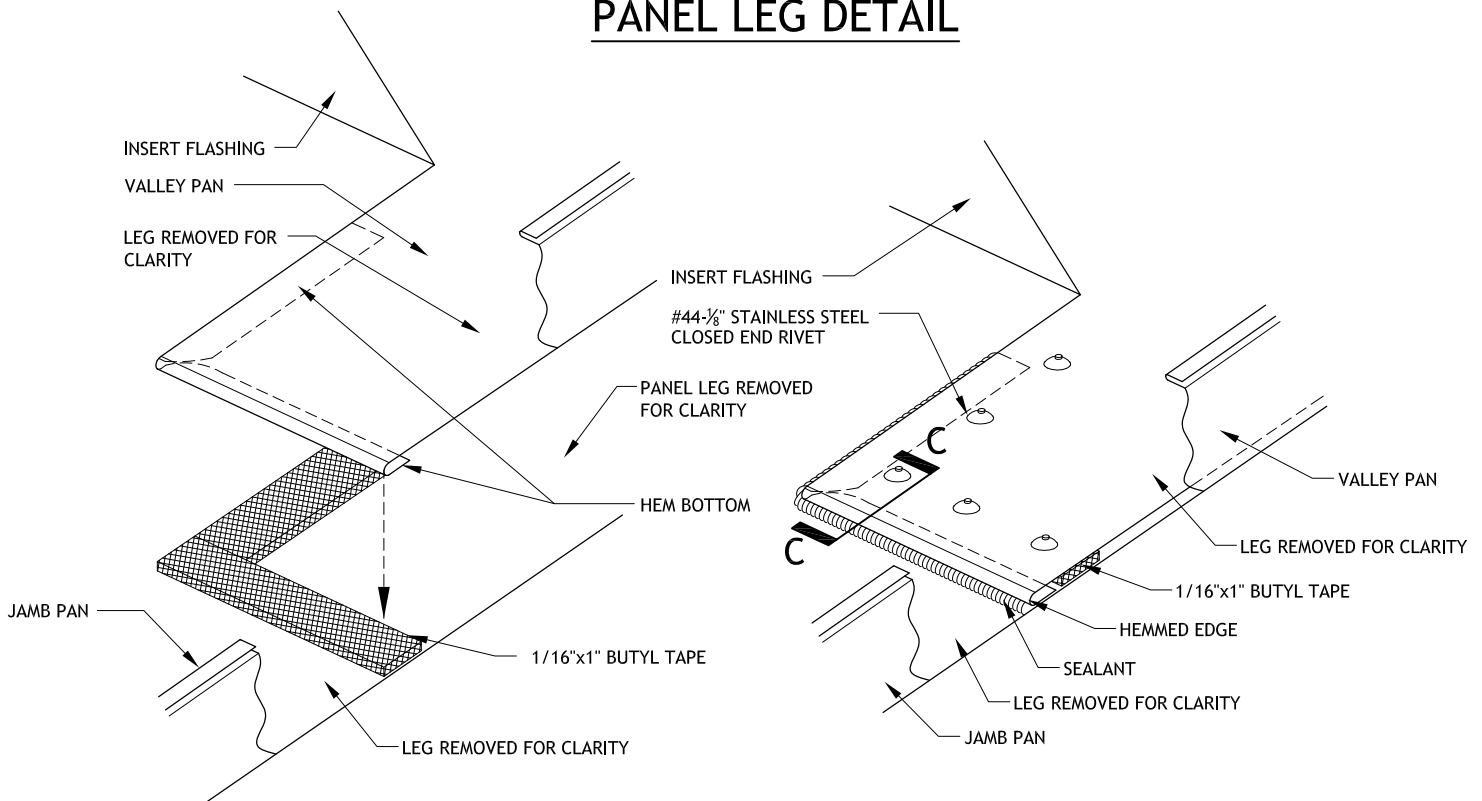


SECTION A-A
(STEP 1 OF 2)



SECTION A-A
(STEP 2 OF 2)

PANEL LEG DETAIL

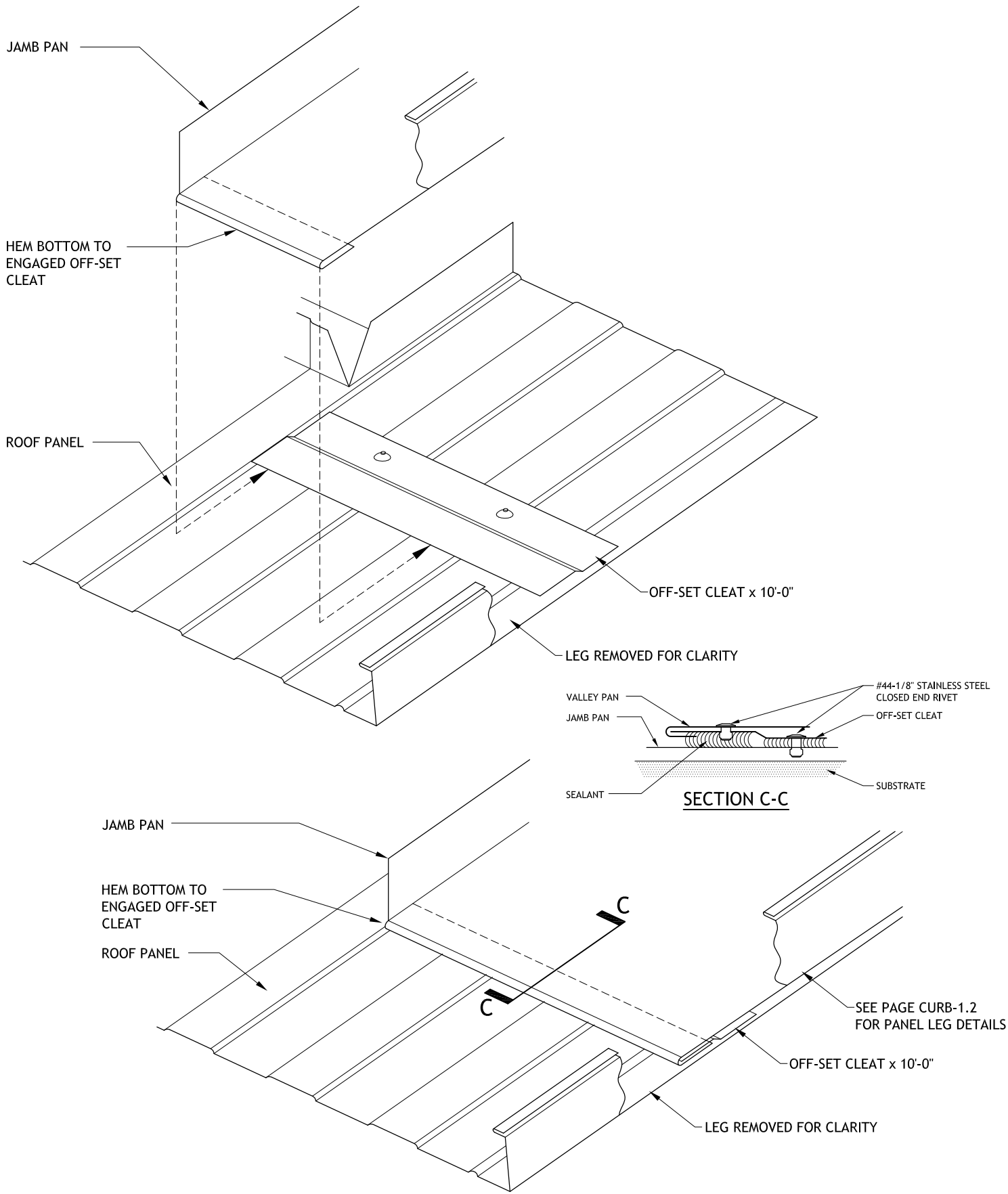


SECTION C-C



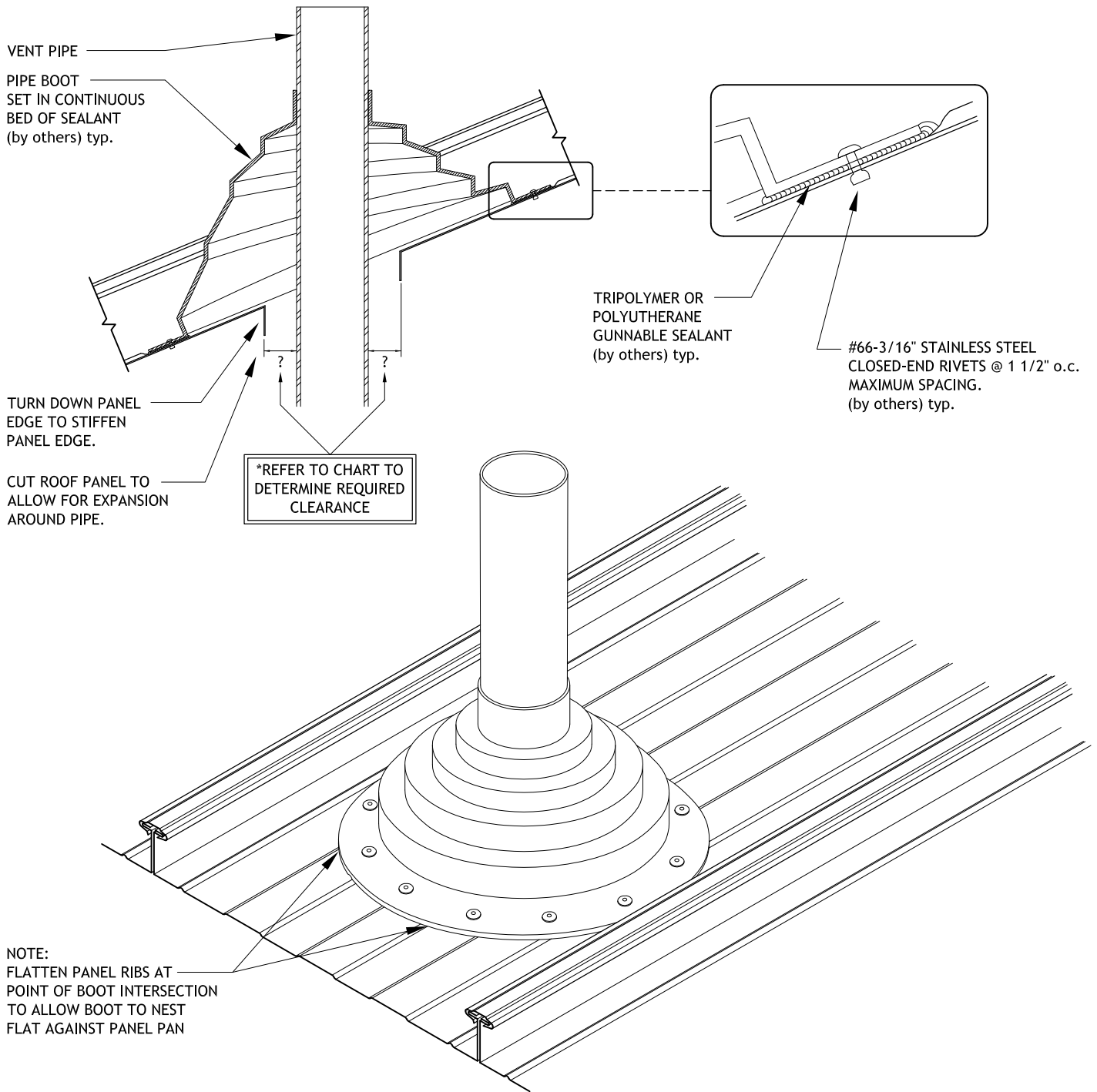
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Valley Pan to Jamb Pan Lap Detail
(Detail 4 of 5)
(RA) ROOF APPLICATIONS



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Jamb Pan to Panel Detail
 (Detail 5 of 5)
 (RA) ROOF APPLICATIONS



NOTE:
 FLATTEN PANEL RIBS AT
 POINT OF BOOT INTERSECTION
 TO ALLOW BOOT TO NEST
 FLAT AGAINST PANEL PAN

THERMAL MOVEMENT CLEARANCE CHART:
 THERMAL MOVEMENT CLEARANCES ARE A FUNCTION OF MATERIAL TYPE AND LENGTH OF PANEL. USE THIS CHART TO
 DETERMINE THE REQUIRED CLEARANCE FOR THIS CONDITION.

TOTAL MOVEMENT (INCHES) FOR STEEL PANELS:					TOTAL MOVEMENT (INCHES) FOR ALUMINUM PANELS:				
DISTANCE FROM FIXED POINT IN FEET					DISTANCE FROM FIXED POINT IN FEET				
10	20	30	40	50	10	20	30	40	50
EXPANSION/CONTRACTION CLEARANCE					EXPANSION/CONTRACTION CLEARANCE				
.145	.289	.434	.579	.724	.279	.557	.836	1.115	1.393



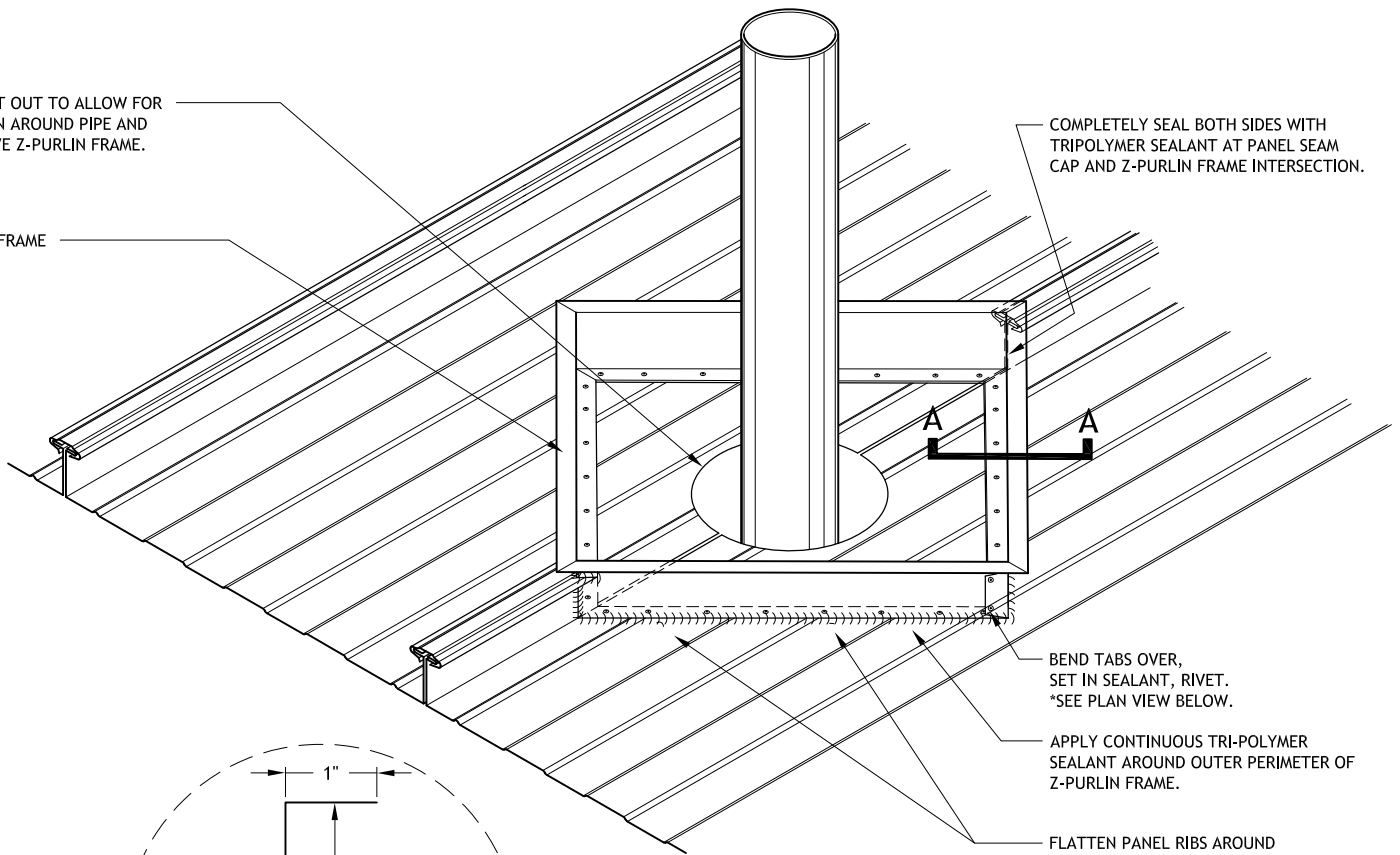
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Pipe Boot Detail Boot Through Panel Pan (RA) ROOF APPLICATIONS

PANEL CUT OUT TO ALLOW FOR EXPANSION AROUND PIPE AND TO RECEIVE Z-PURLIN FRAME.

Z-PURLIN FRAME

COMPLETELY SEAL BOTH SIDERS WITH TRIPOLYMER SEALANT AT PANEL SEAM CAP AND Z-PURLIN FRAME INTERSECTION.

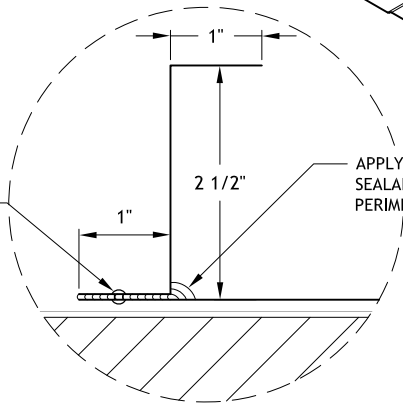


BEND TABS OVER, SET IN SEALANT, RIVET. *SEE PLAN VIEW BELOW.

APPLY CONTINUOUS TRI-POLYMER SEALANT AROUND OUTER PERIMETER OF Z-PURLIN FRAME.

FLATTEN PANEL RIBS AROUND CUT OPENING TO ALLOW Z-PURLIN FRAME TO SEAL TIGHT AGAINST PANEL PAN.

#44-1/8" S.S. WATERTIGHT RIVET @ 2" o.c. MAX.



APPLY CONTINUOUS TRIPOLYMER SEALANT AROUND OUTER PERIMETER OF Z-PURLIN FRAME

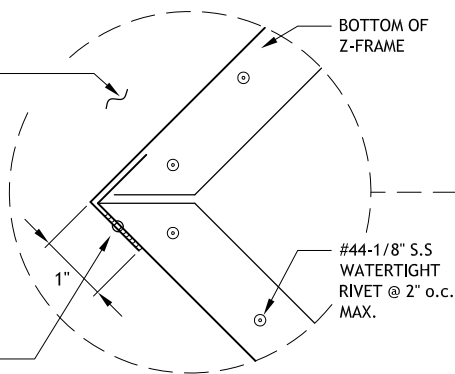
SECTION A-A

TOP FLANGE OF Z-FRAME NOT SHOWN FOR CLARITY

BOTTOM OF Z-FRAME

#44-1/8" S.S. WATERTIGHT RIVET @ 2" o.c. MAX.

BEND TABS OVER, SET IN SEALANT, RIVET

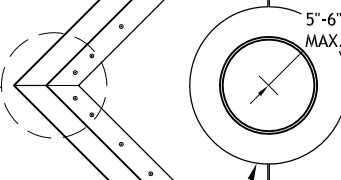


MITER JOINT

NOTE: PANEL MESAS NOT SHOWN FOR CLARITY

SEAM CAP SEALED AT INTERSECTION (BOTH SIDES)

6" MIN. CLEARANCE



PANEL CUT OUT TO ALLOW FOR EXPANSION AROUND PIPE AND TO RECEIVE Z-PURLIN FRAME

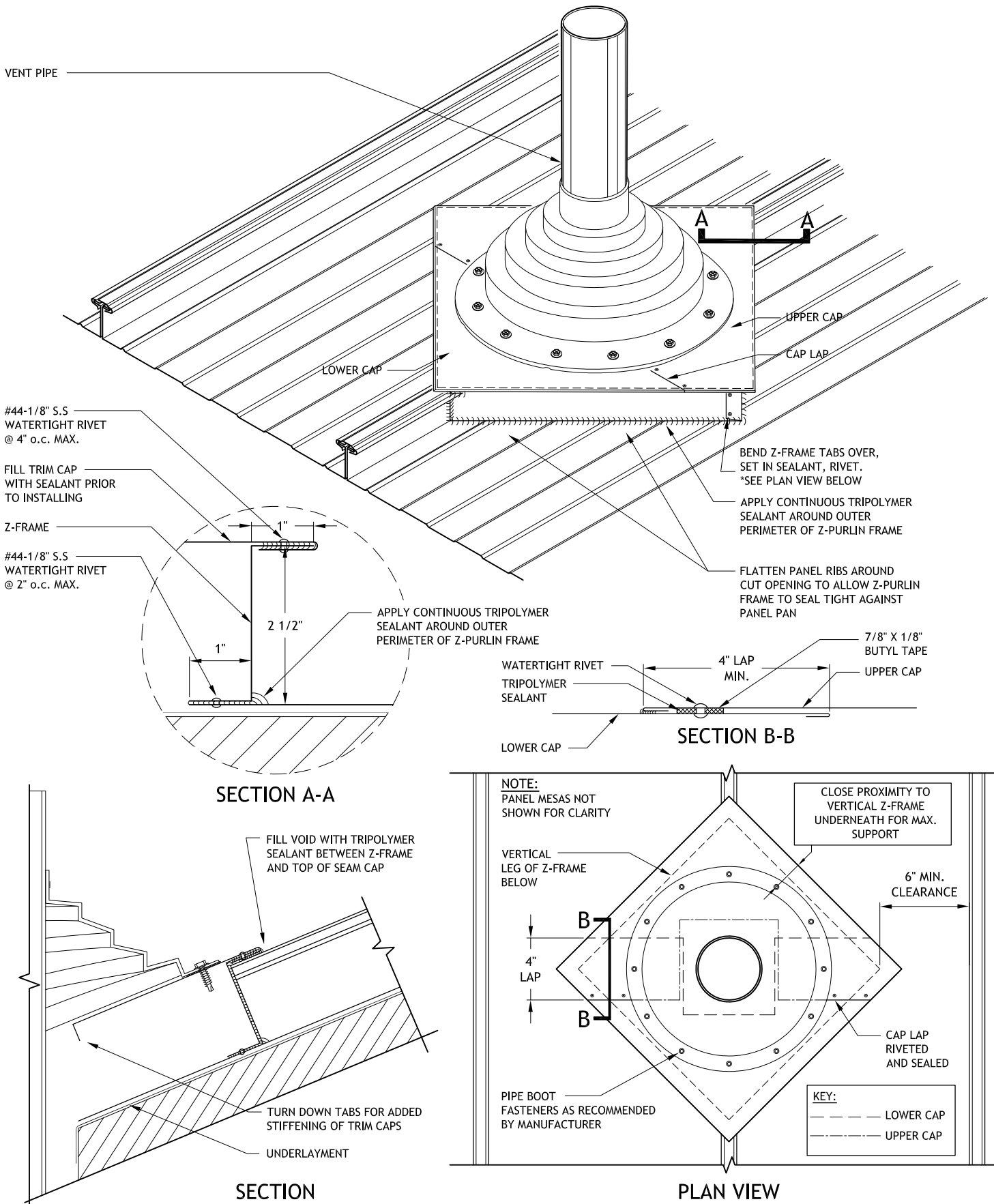
SEAM CAP SEALED AT INTERSECTION (BOTH SIDES)

PLAN VIEW



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Pipe Boot Through Panel Seam
(Detail 1 of 2)
(RA) ROOF APPLICATIONS



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Pipe Boot Through Panel Seam
 (Detail 2 of 2)
 (RA) ROOF APPLICATIONS

PANEL CUT OUT TO ALLOW FOR EXPANSION AROUND PIPE AND TO RECEIVE ZEE FRAME

ZEE FRAME
16GA GALV. STEEL

COMPLETELY SEAL BOTH SIDERS WITH TRIPOLYMER SEALANT AT PANEL SEAM CAP AND Z-PURLIN FRAME INTERSECTION.

ZEE FRAME
16GA GALV. STEEL

#66-3/16" S.S.
CLOSED END RIVETS
@ 2" o.c. MAX.

1/16"x1" BUTYL TAPE
APPLIED CONTINUOUS
ALONG ZEE FRAME

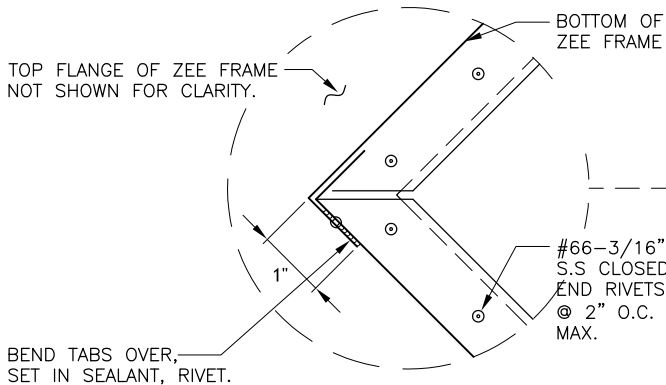
APPLY CONTINUOUS TRIPOLYMER
SEALANT AROUND OUTER
PERIMETER OF ZEE FRAME

BEND TABS OVER,
SET IN SEALANT, RIVET.
*SEE PLAN VIEW BELOW

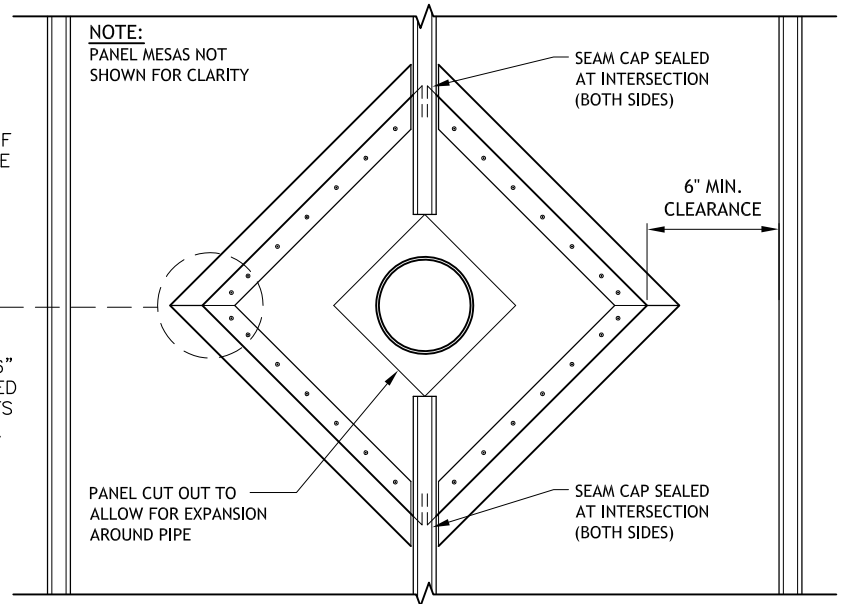
APPLY CONTINUOUS TRIPOLYMER
SEALANT AROUND OUTER PERIMETER
OF ZEE FRAME

FLATTEN PANEL RIBS AROUND
CUT OPENING TO ALLOW ZEE FRAME TO
SEAL TIGHT AGAINST PANEL PAN

SECTION A-A



MITER JOINT

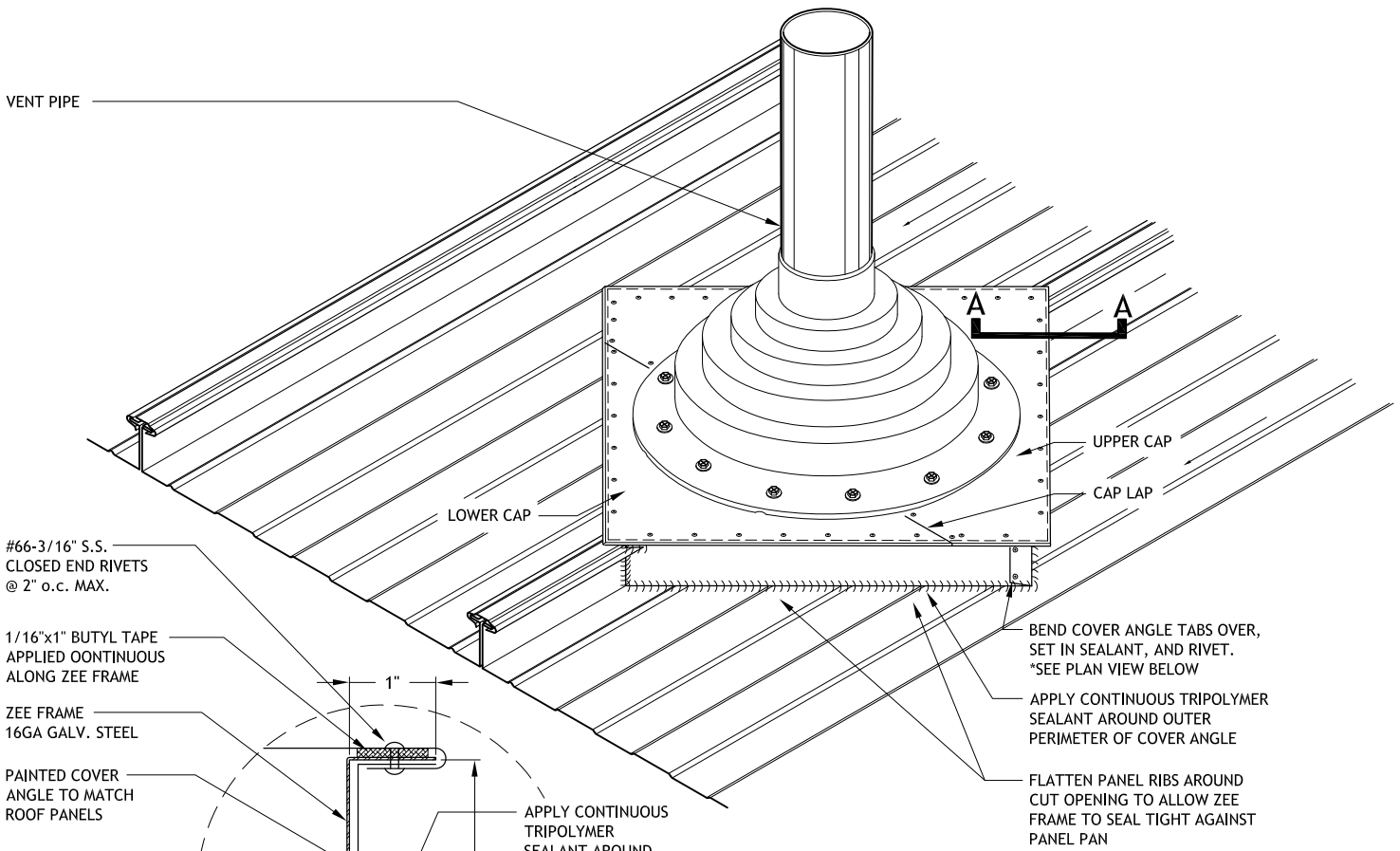


PLAN VIEW



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**Heavy Duty Boot Through Panel Seam
(Detail 1 of 2)
(RA) ROOF APPLICATIONS**



#66-3/16" S.S.
CLOSED END RIVETS
@ 2" o.c. MAX.

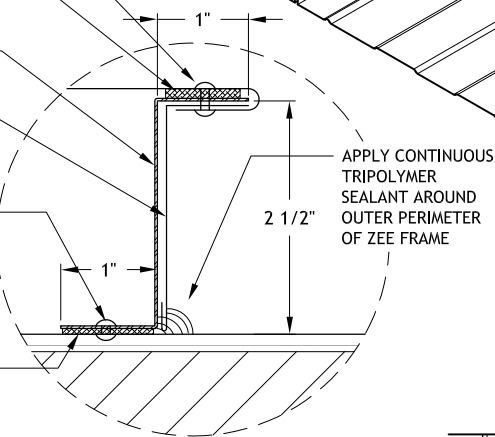
1/16"x1" BUTYL TAPE
APPLIED OONTINUOUS
ALONG ZEE FRAME

ZEE FRAME
16GA GALV. STEEL

PAINTED COVER
ANGLE TO MATCH
ROOF PANELS

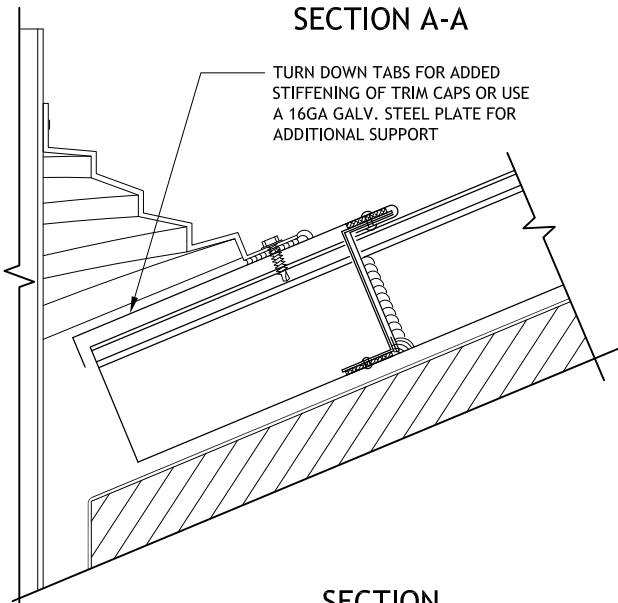
#66-3/16" S.S.
CLOSED END RIVETS
@ 2" o.c. MAX.

1/16"x1" BUTYL TAPE
APPLIED OONTINUOUS
ALONG ZEE FRAME



SECTION A-A

TURN DOWN TABS FOR ADDED
STIFFENING OF TRIM CAPS OR USE
A 16GA GALV. STEEL PLATE FOR
ADDITIONAL SUPPORT



SECTION

BEND COVER ANGLE TABS OVER,
SET IN SEALANT, AND RIVET.
*SEE PLAN VIEW BELOW

APPLY CONTINUOUS TRIPOLYMER
SEALANT AROUND OUTER
PERIMETER OF COVER ANGLE

FLATTEN PANEL RIBS AROUND
CUT OPENING TO ALLOW ZEE
FRAME TO SEAL TIGHT AGAINST
PANEL PAN

#66-3/16" S.S.
CLOSED END RIVETS
@ 2" o.c. MAX.

TRIPOLYMER
SEALANT

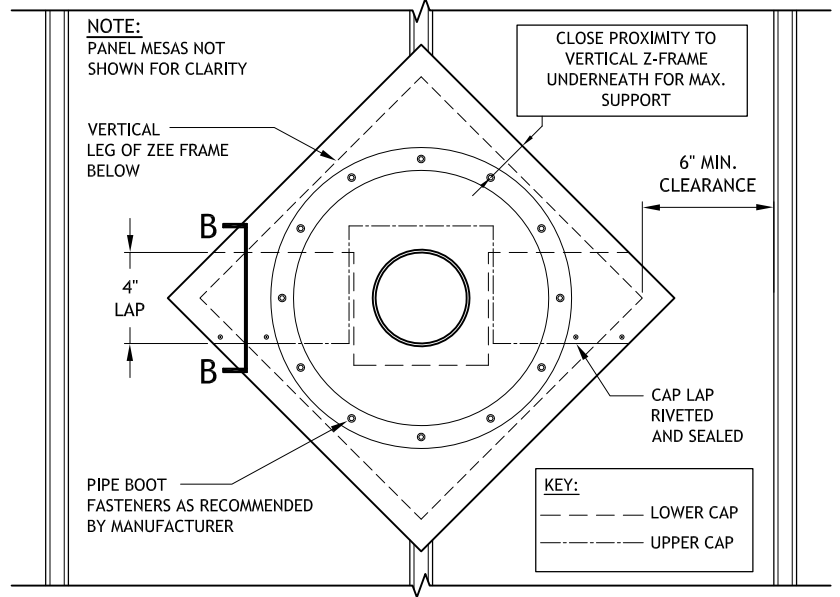
LOWER CAP

4" LAP
MIN.

7/8" X 1/8"
BUTYL TAPE

UPPER CAP

SECTION B-B



NOTE:
PANEL MESAS NOT
SHOWN FOR CLARITY

VERTICAL
LEG OF ZEE FRAME
BELOW

CLOSE PROXIMITY TO
VERTICAL Z-FRAME
UNDERNEATH FOR MAX.
SUPPORT

6" MIN.
CLEARANCE

4"
LAP

CAP LAP
RIVETED
AND SEALED

PIPE BOOT
FASTENERS AS RECOMMENDED
BY MANUFACTURER

KEY:

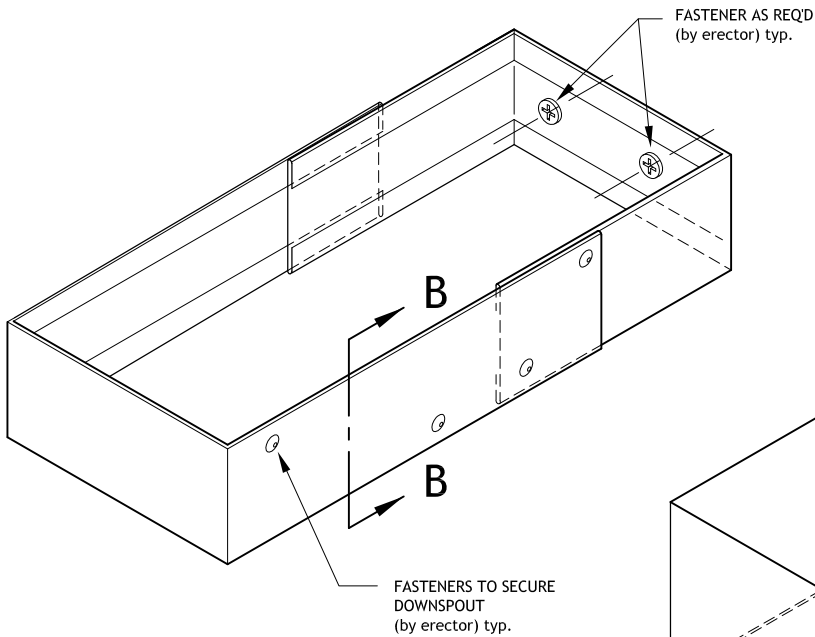
--- LOWER CAP
--- UPPER CAP

PLAN VIEW

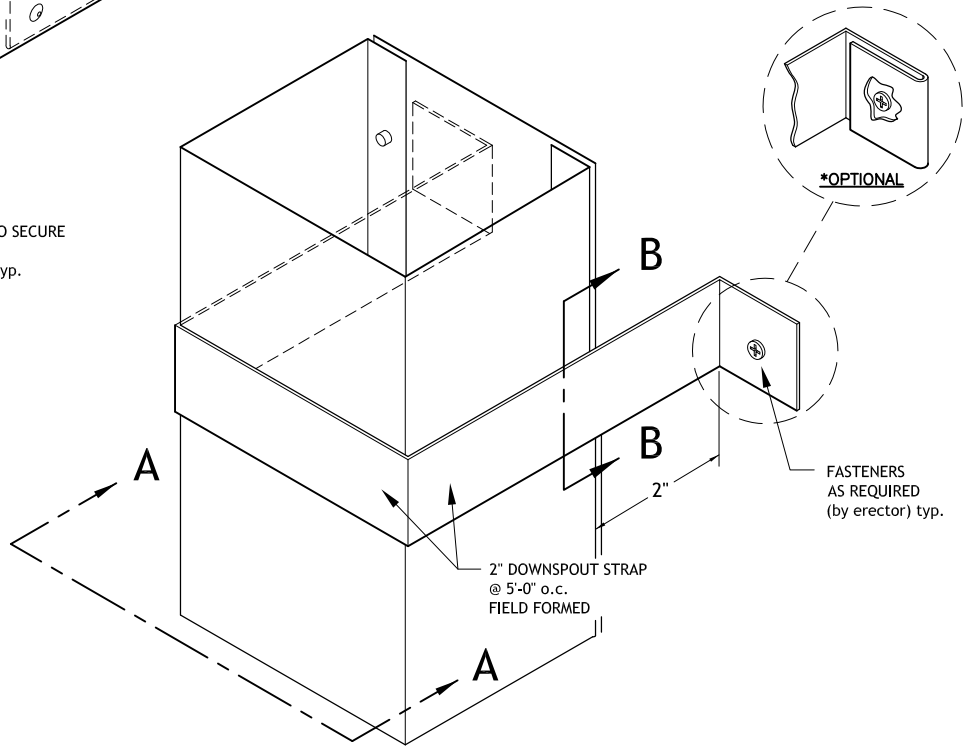


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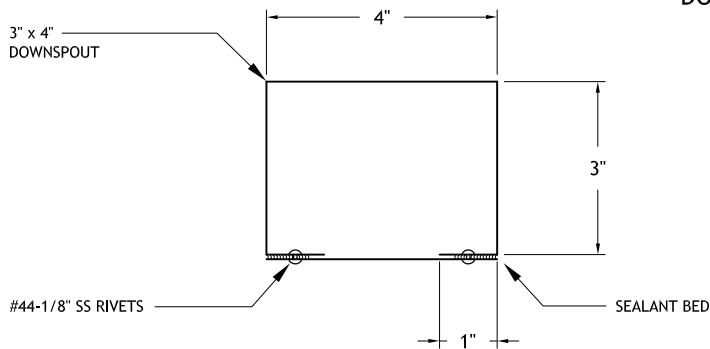
Heavy Duty Boot Through Panel Seam
(Detail 2 of 2)
(RA) ROOF APPLICATIONS



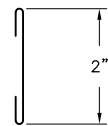
2-PIECE DOWNSPOUT STRAP
(OPTIONAL)



DOWNSPOUT STRAP ASSEMBLY



DOWNSPOUT SECTION A-A

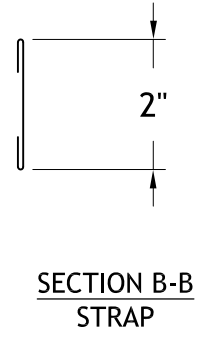
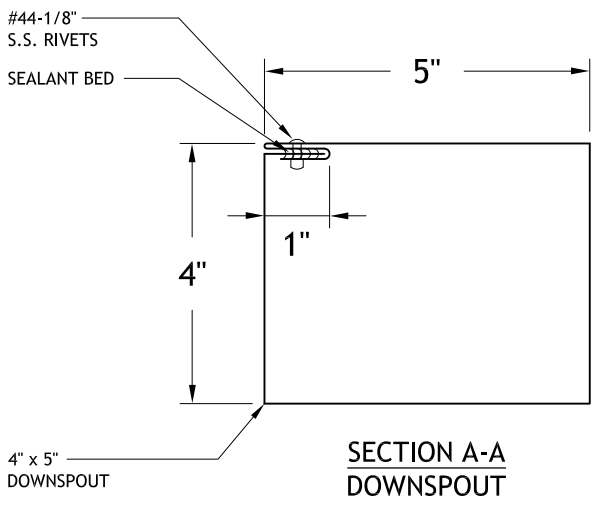
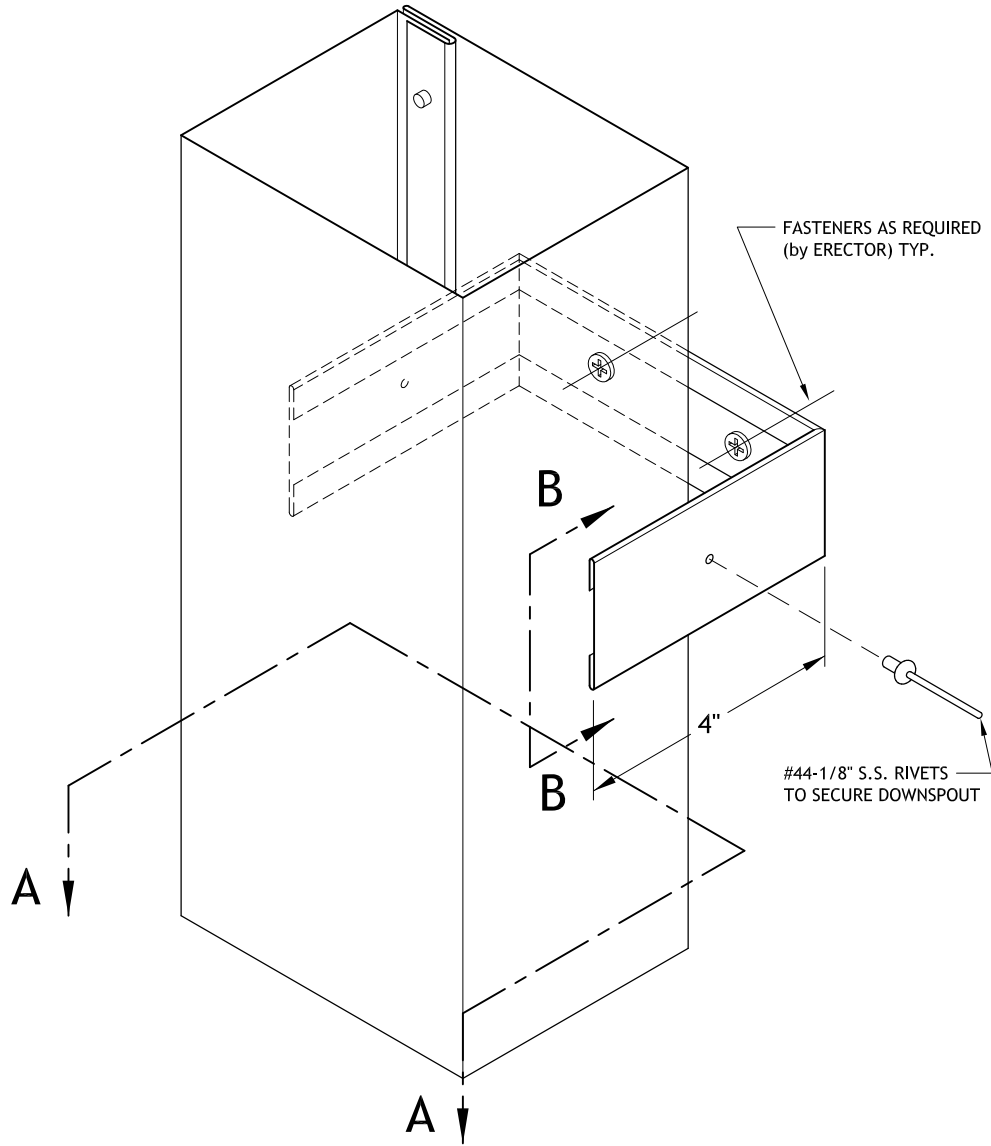


STRAP SECTION B-B



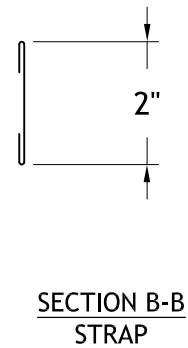
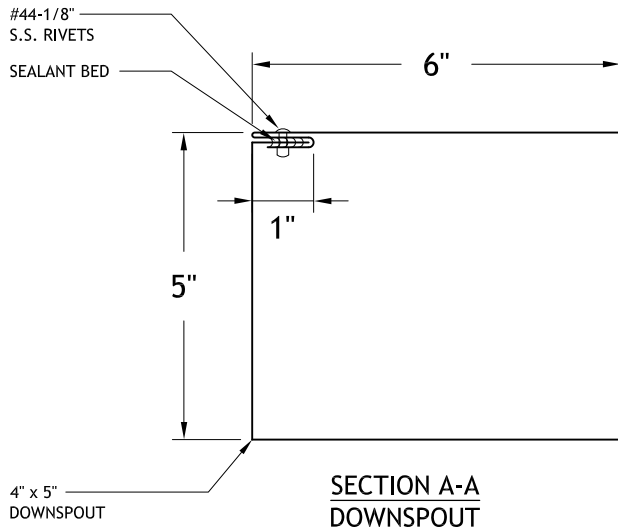
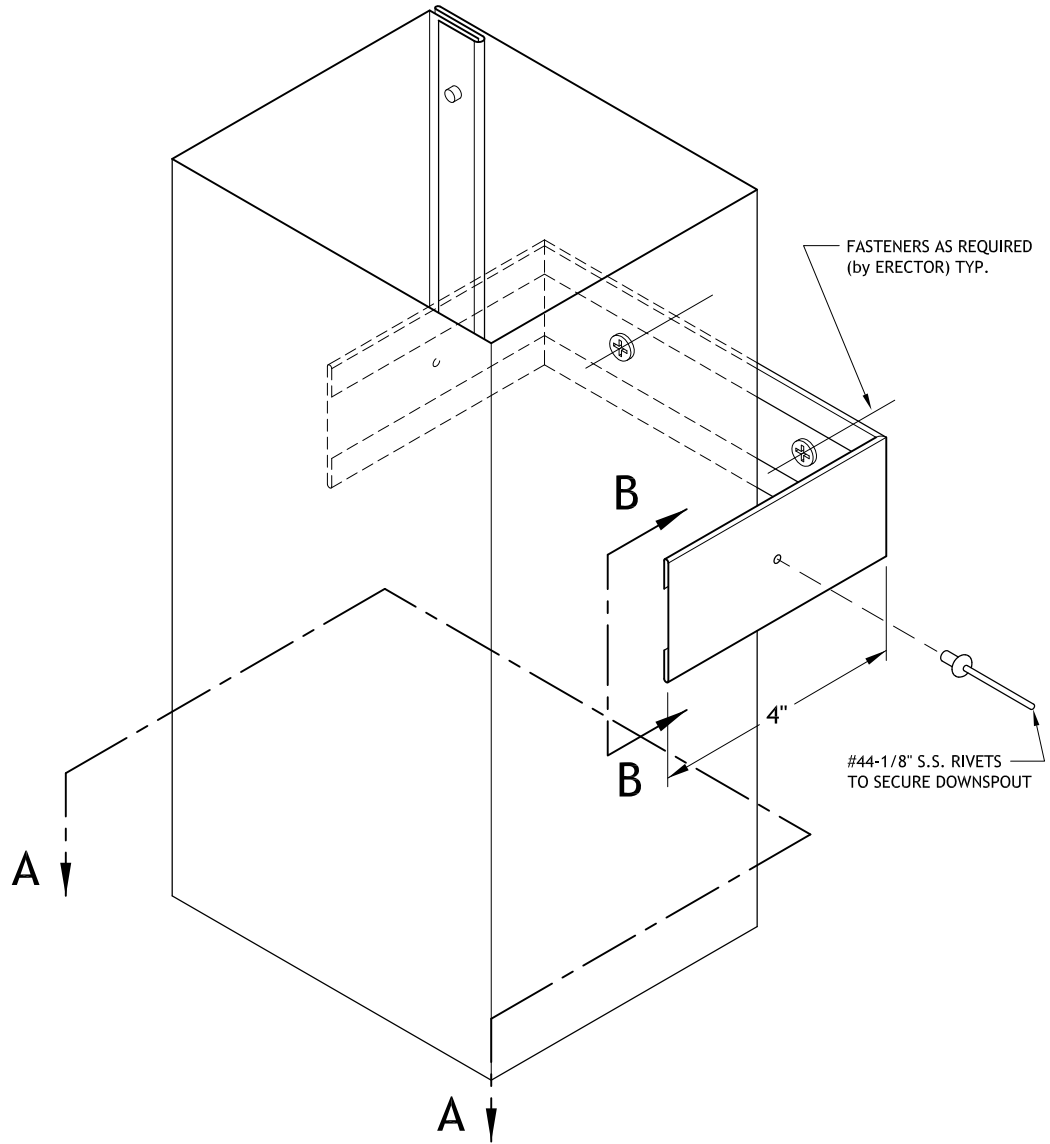
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Downspout Assembly Standard 3" x 4" Size (RA) ROOF APPLICATIONS



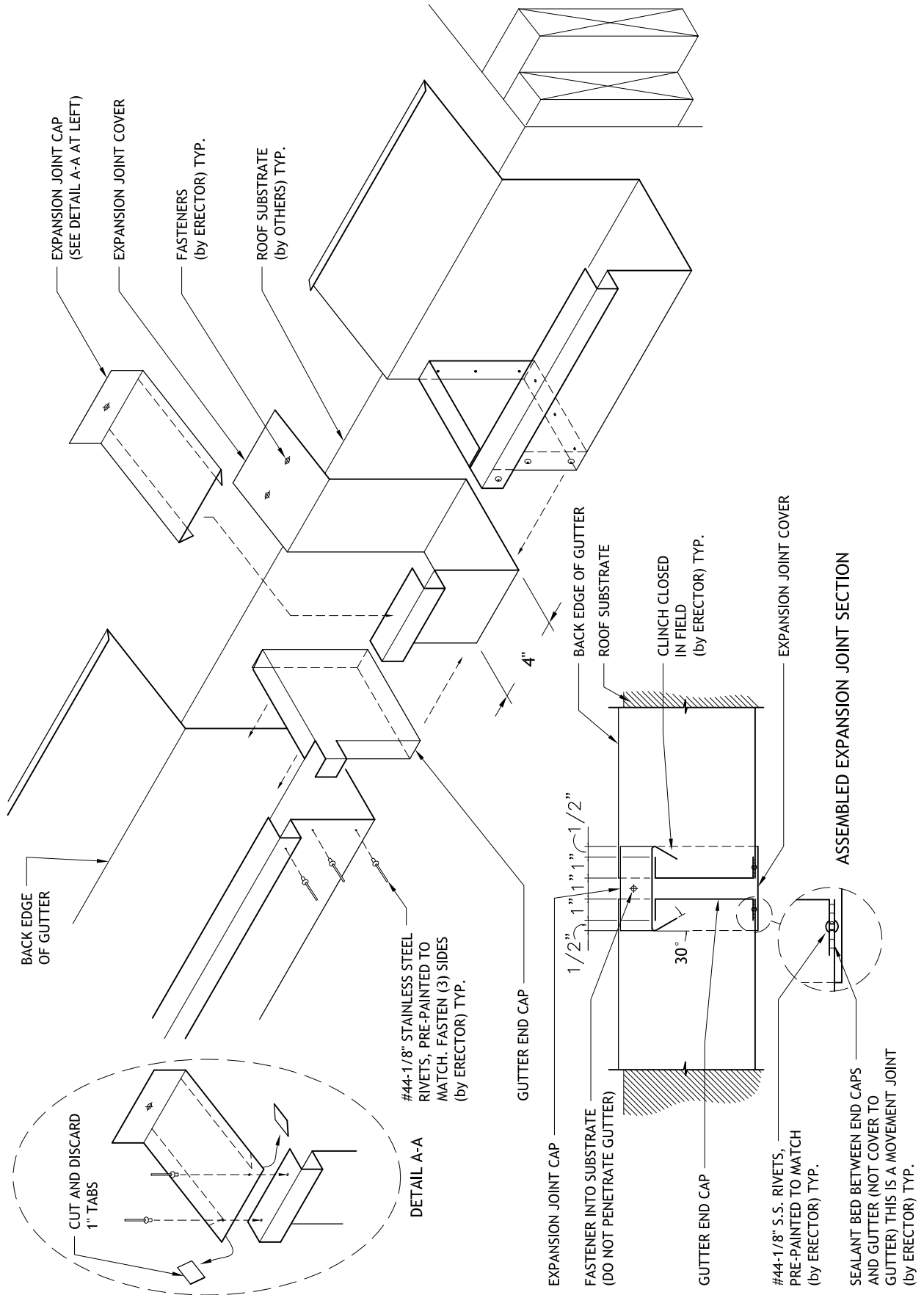
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**Downspout Assembly
 Standard 4" x 5"
 (RA) ROOF APPLICATIONS**



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**Downspout Assembly
Standard 5" x 6"
(RA) ROOF APPLICATIONS**



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Standard Gutter Expansion Joint Detail (RA) ROOF APPLICATIONS



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Section **FT**

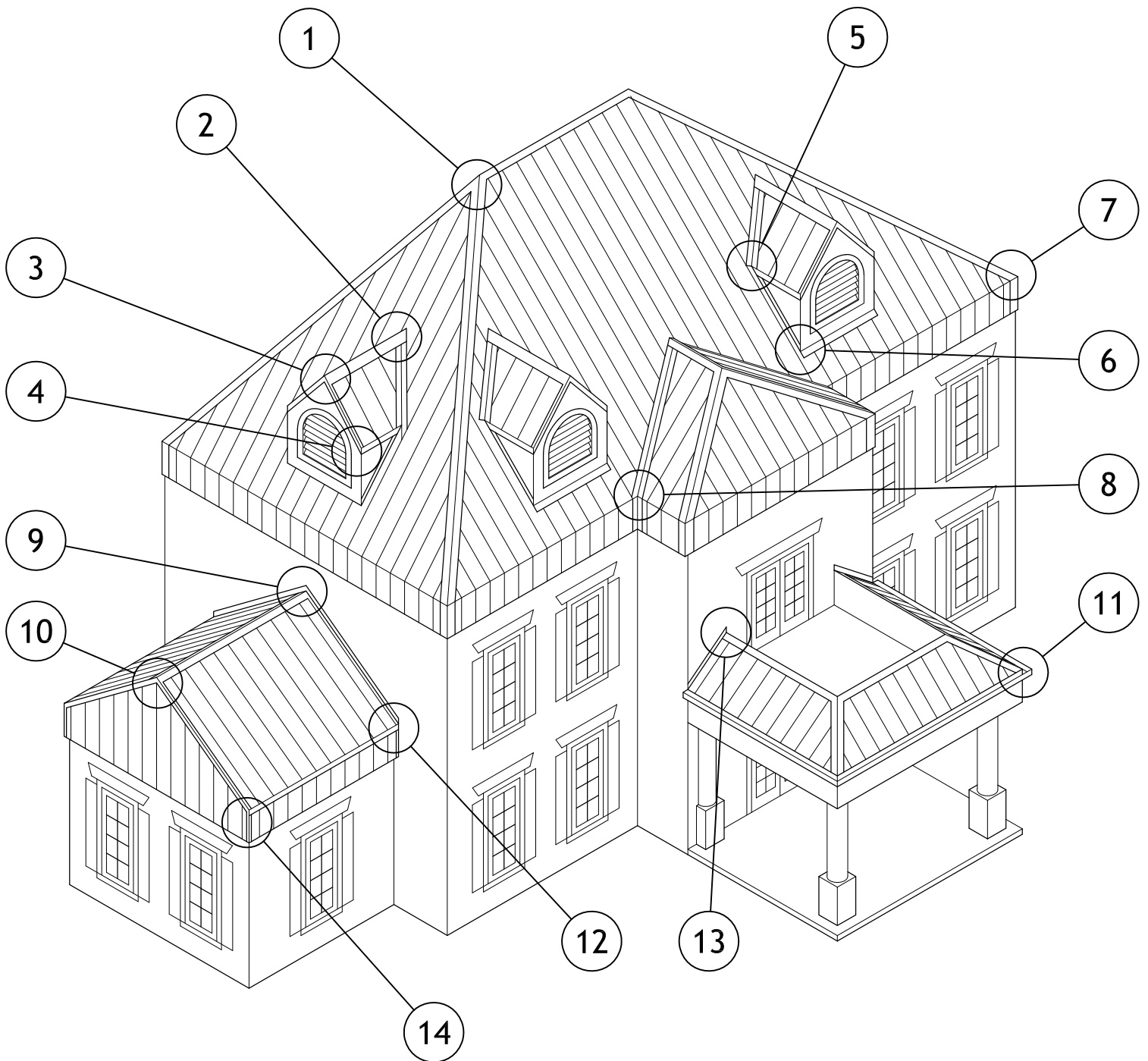
FIELD TRANSITIONS SUPPORT



The following series of details is provided as a supplement to the 11" x 17" shop drawings.
ALWAYS start with your shop drawings! They will govern specific component assemblies.

SECTION CONTENTS

DETAIL:	PAGE NO:
QUICK REFERENCE GUIDE	FT-00
Ridge to Hip (Detail 1 of 2)	FT-01.1
Ridge to Hip (Detail 2 of 2)	FT-01.2
Ridge at Dormer (Detail 1 of 2)	FT-02.1
Ridge at Dormer (Detail 2 of 2)	FT-02.2
Ridge to Rake	FT-03
Rake to Eave	FT-04
Valley to Sloping Jamb	FT-05
Sloping Jamb to Head	FT-06
Hip to Vertical Trim	FT-07
Valley to Vertical Trim	FT-08
Ridge at Jamb (Detail 1 of 2)	FT-09.1
Ridge at Jamb (Detail 2 of 2)	FT-09.2
Vertical Panel at Rake	FT-10
Hip at Gutter	FT-11
Vertical and Sloping Jamb at Eave	FT-12
Peak at Sloping Jamb	FT-13
Rake to Eave with Vertical Panel	FT-14



DETAIL REFERENCE GUIDELINE:

LOCATE THE FIELD TRANSITION FROM THE DRAWING ABOVE THAT MATCHES YOUR SPECIFIC SITUATION. REFER TO THE CALL-OUT NUMBER AND TURN TO THE CORRESPONDING PAGE.

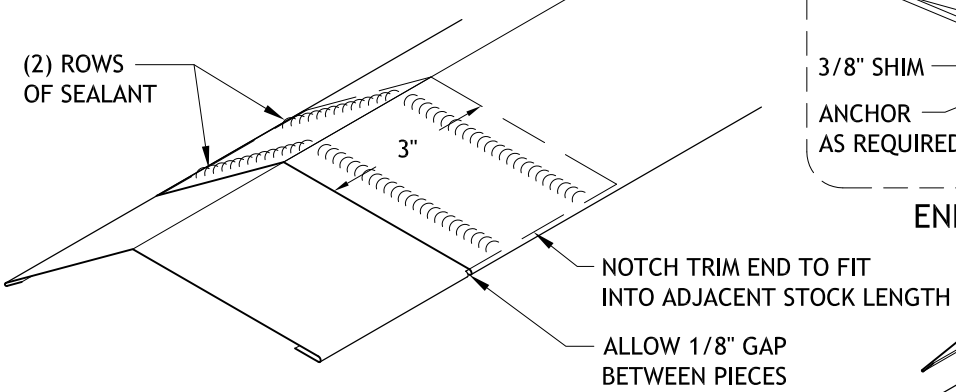
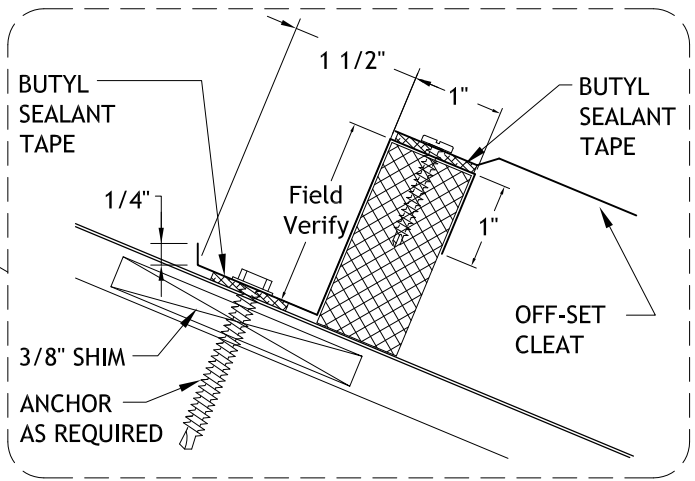
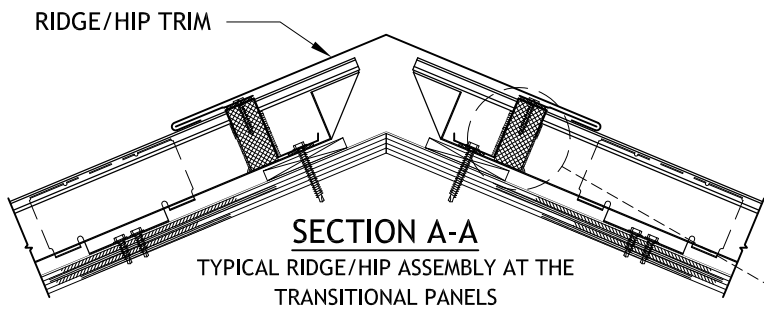
FOR EXAMPLE:

VALLEY TO SLOPING JAMB IS LOCATED ABOVE AS: **5**, TURN TO PAGE **FT-05** IN THIS SECTION.

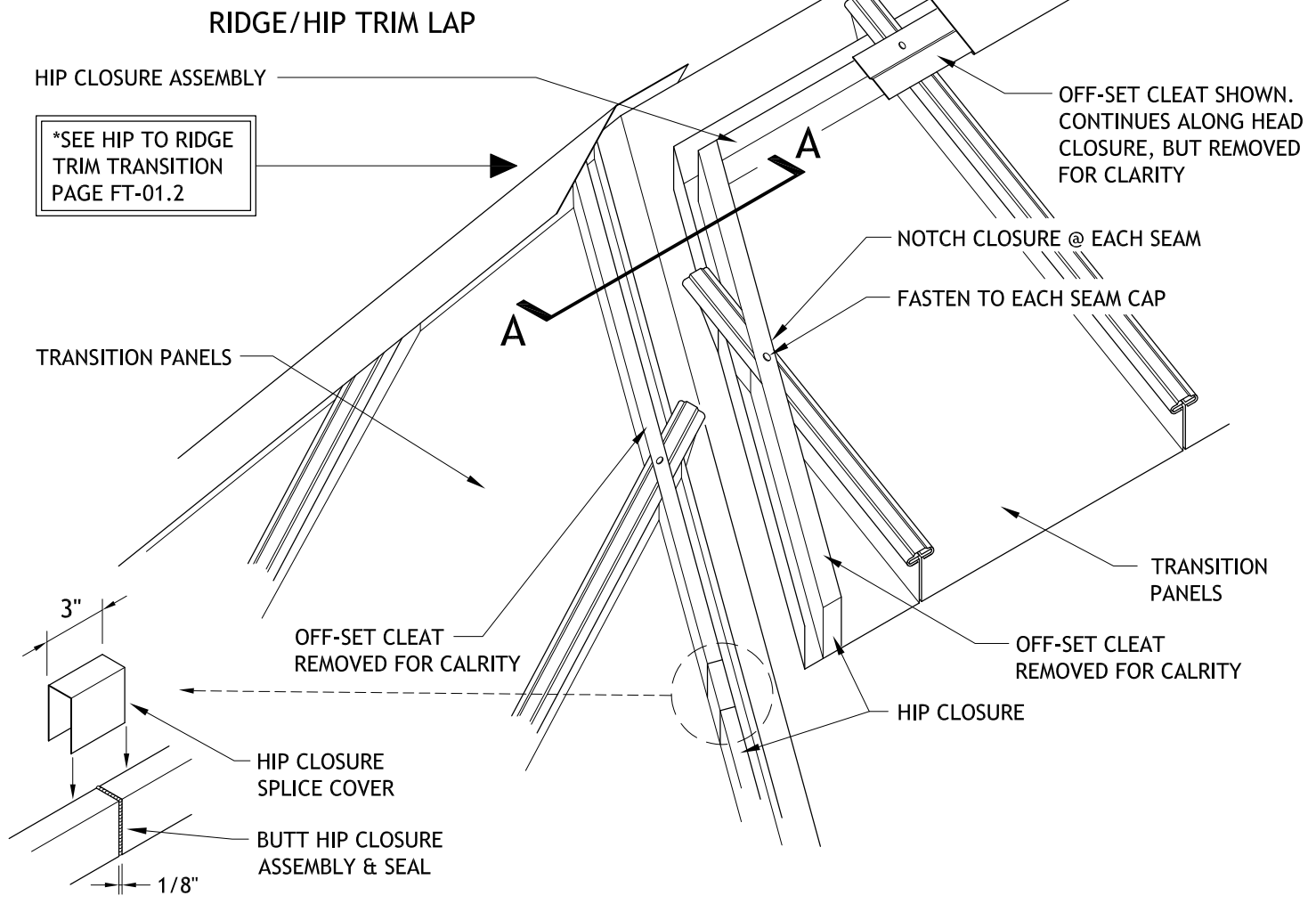


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QUICK REFERENCE GUIDE
(FT) FIELD TRANSITIONS

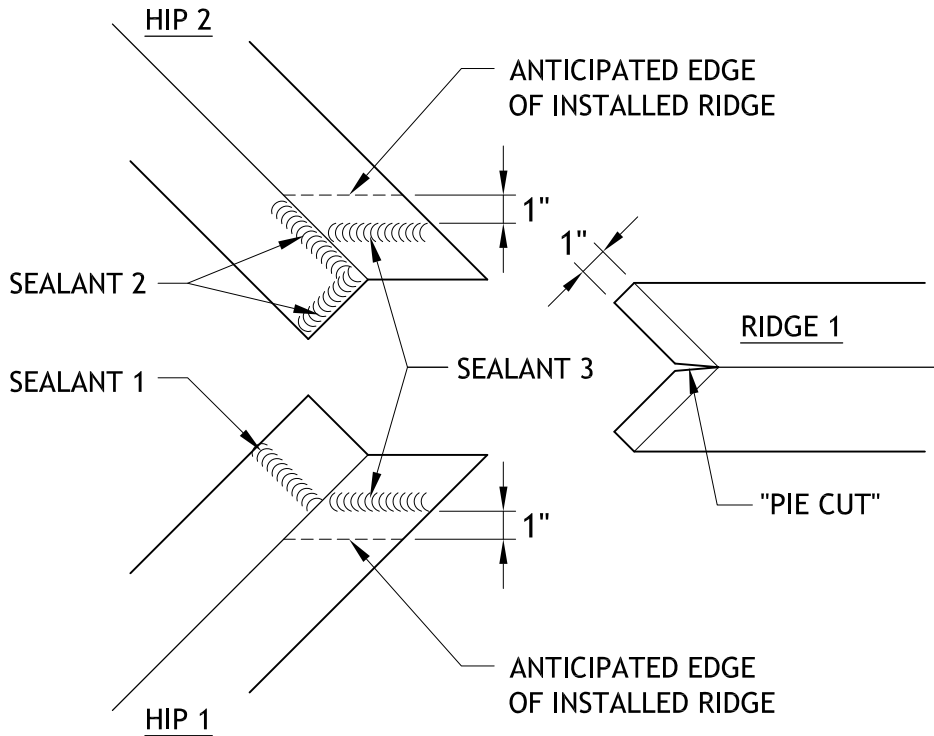


ENLARGED HEAD/HIP ASSEMBLY

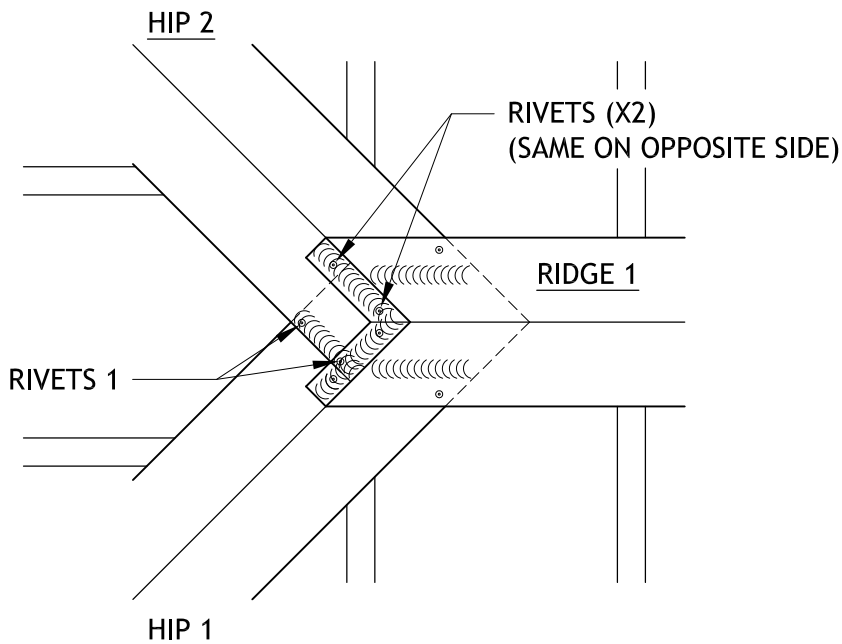


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1 Ridge to Hip Transition
(Detail 1 of 2)
(FT) FIELD TRANSITIONS



EXPLODED VIEW



PLAN VIEW

INSTALLATION STEPS:

- 1) DRY FIT ALL COMPONENTS PRIOR TO APPLYING SEALANT.
- 2) INSTALL HIP 1 AND APPLY SEALANT BEAD 1 AS SHOWN.
- 3) INSTALL HIP 2 AND APPLY SEALANT BEAD 2 AS SHOWN.
- 4) INSTALL RIVETS 1*.
- 5) LOCATE EDGE OF RIDGE 1 ON HIP 1 AND HIP 2 AND APPLY SEALANT 3 AS SHOWN.
- 6) NOTCH AND FORM 1" TABS ON END OF RIDGE 1.
- 7) INSTALL RIVETS (X2)*.

***RIVETS:** #44-1/8 STAINLESS STEEL, CLOSED END (WATERTIGHT) PAINTED TO MATCH WITH TOUCH-UP PAINT. REFER TO SECTION TAB (SC)

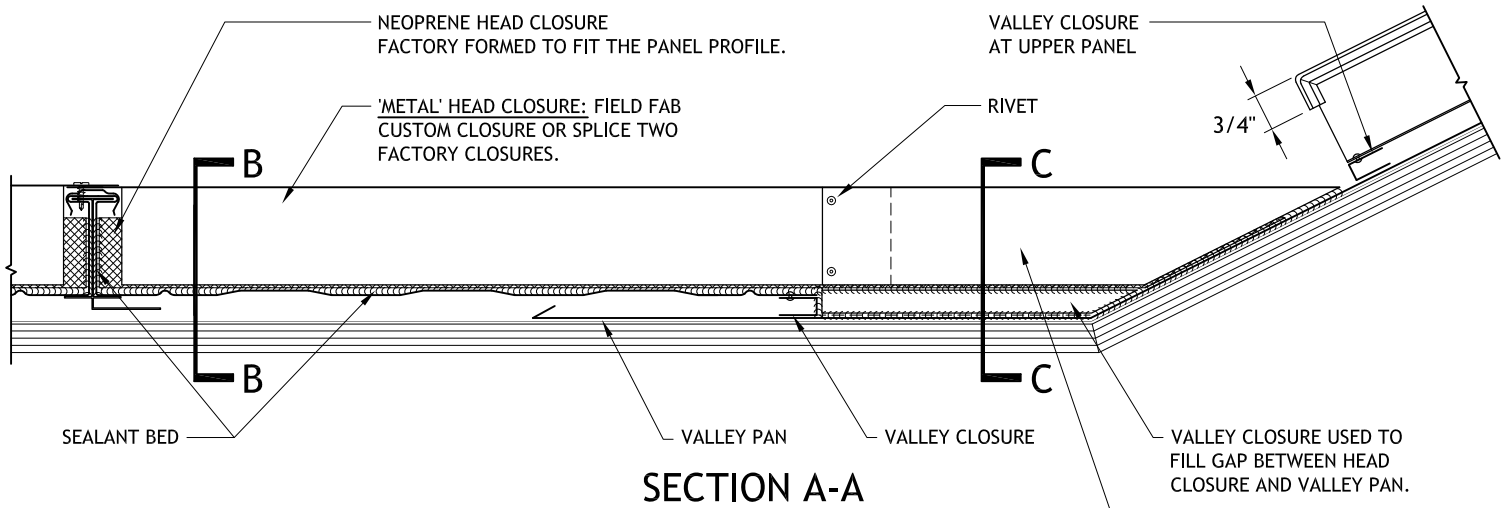


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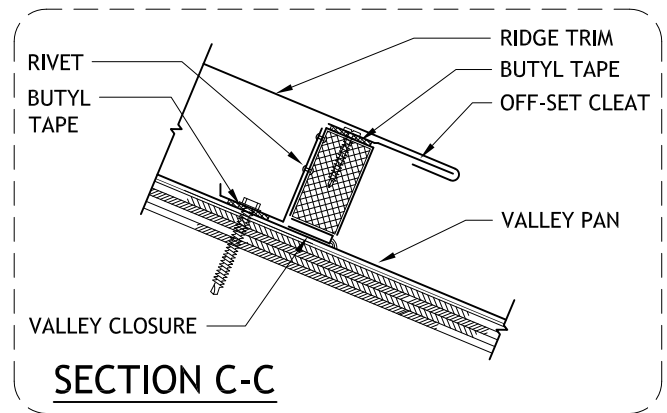
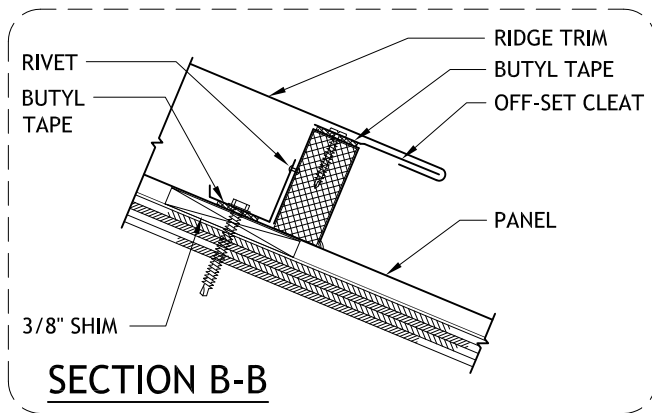
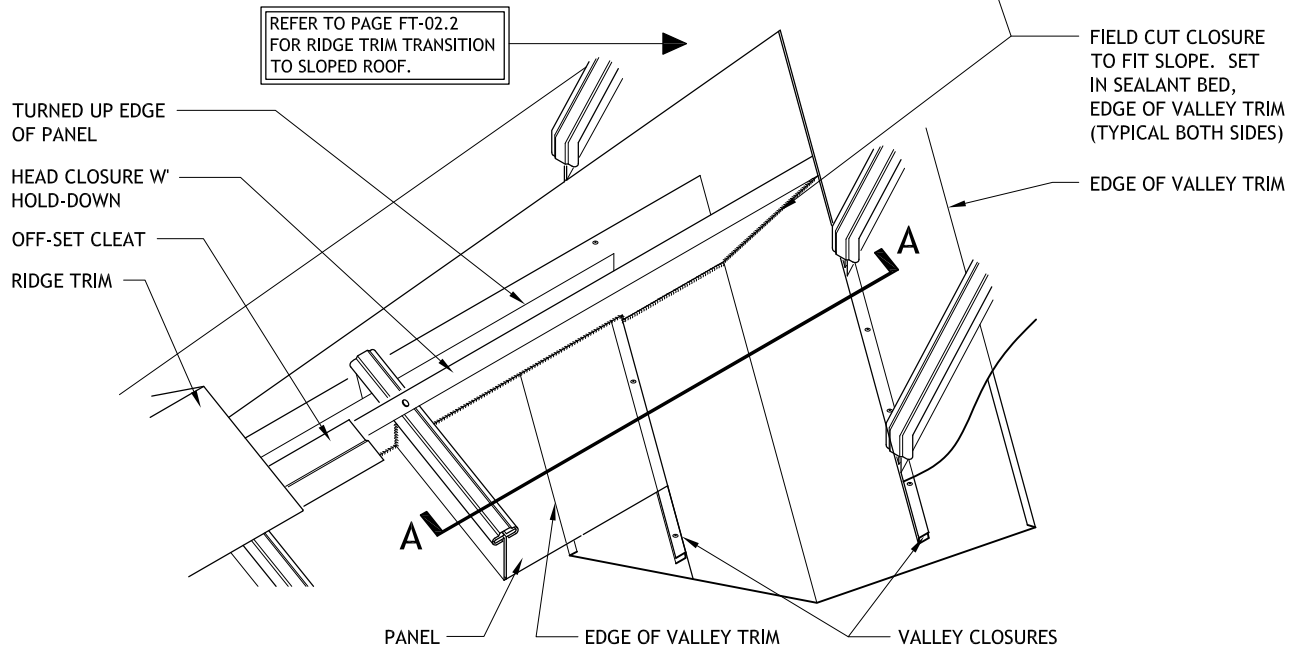


**Ridge to Hip Transition
 (Detail 2 of 2)**

(FT) FIELD TRANSITIONS

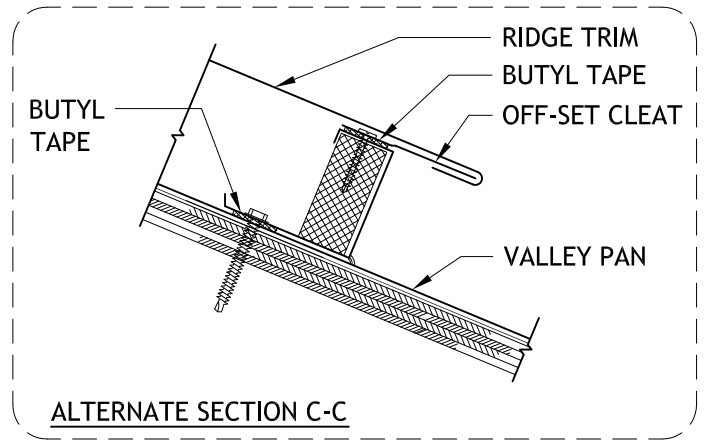
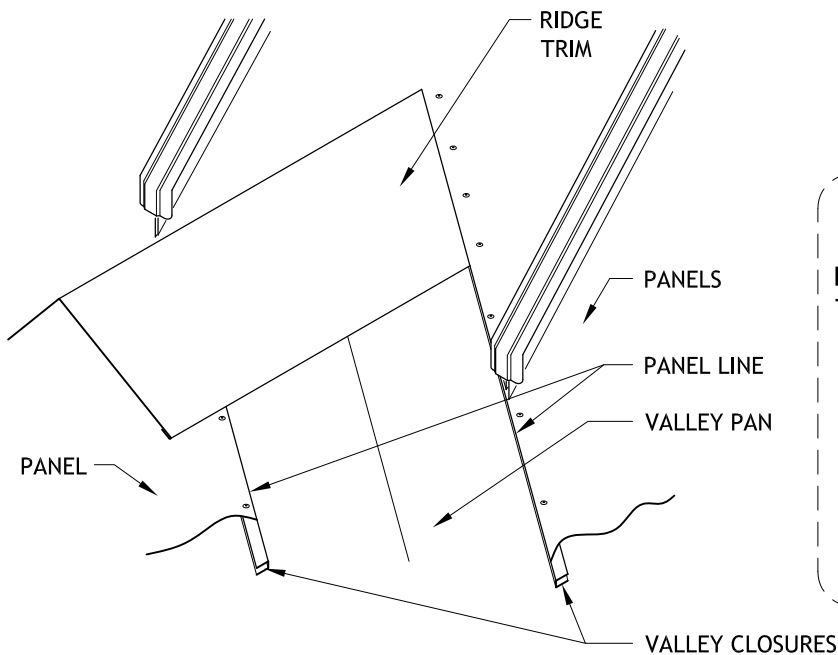
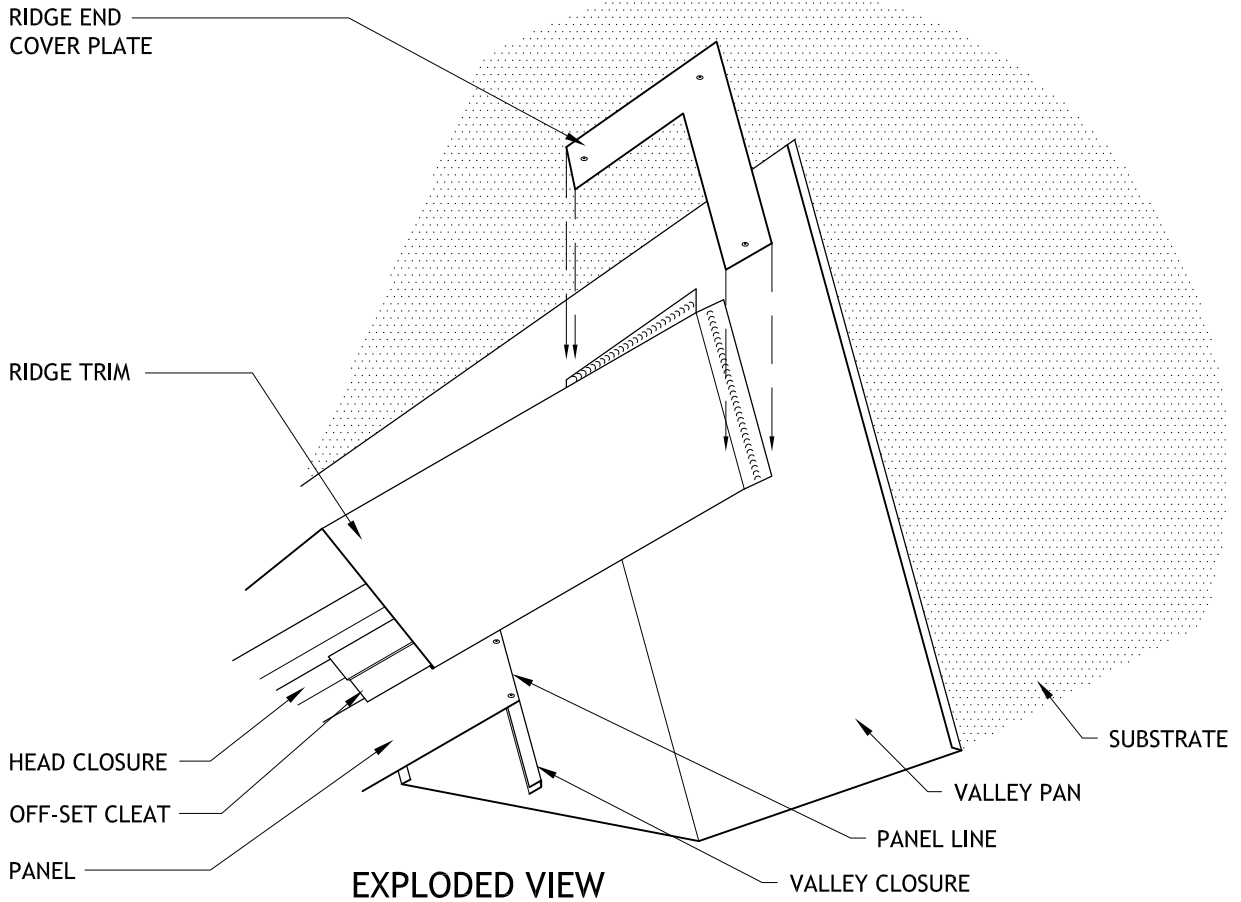


SECTION A-A



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2 Ridge to Slope Transition
 (Detail 1 of 2)
(FT) FIELD TRANSITIONS

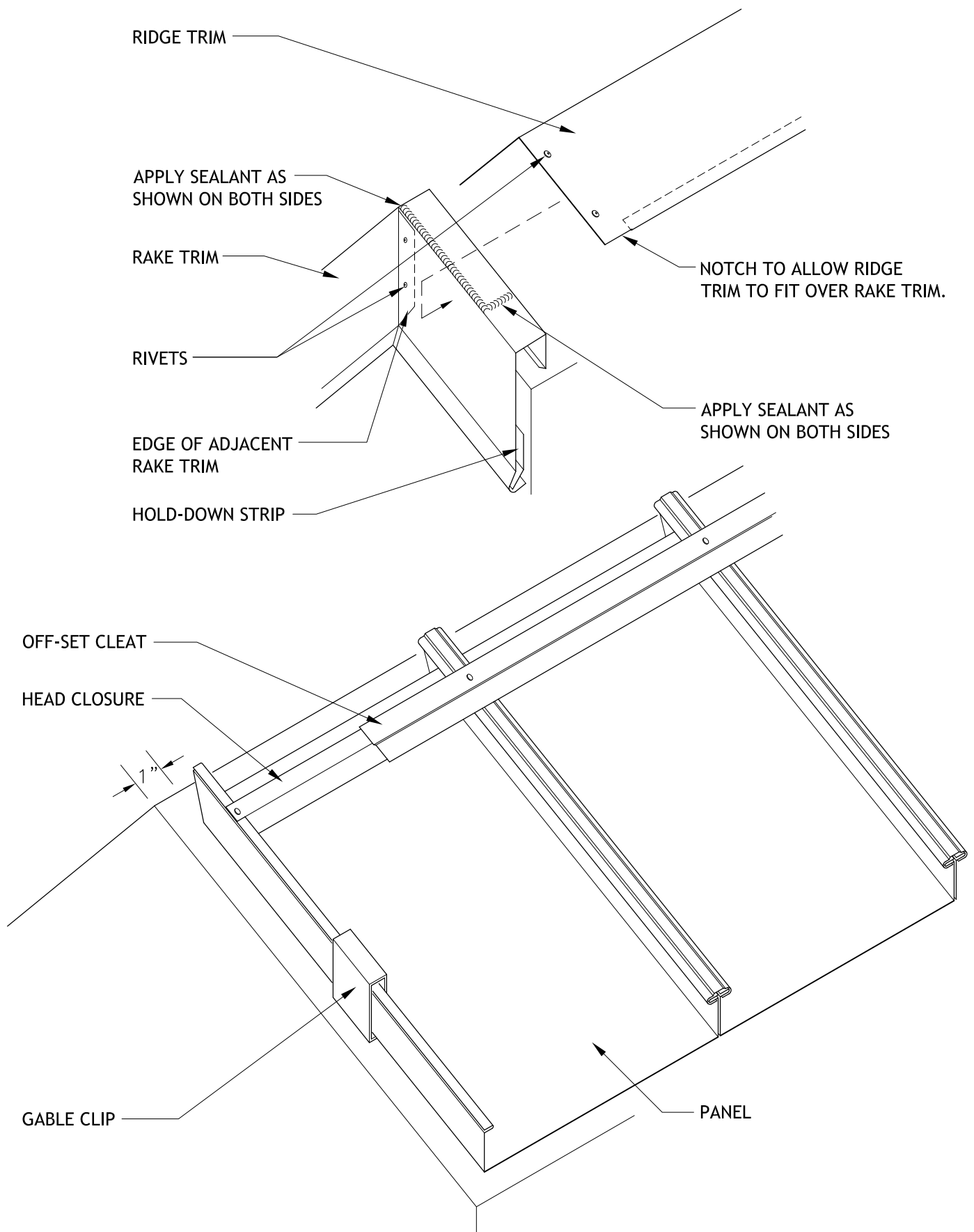


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Ridge to Slope Transition
 (Detail 2 of 2)

(FT) FIELD TRANSITIONS



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3 Ridge to Rake
 Transition
 (FT) FIELD TRANSITIONS

GABLE CLIP

PANEL

HOLD-DOWN

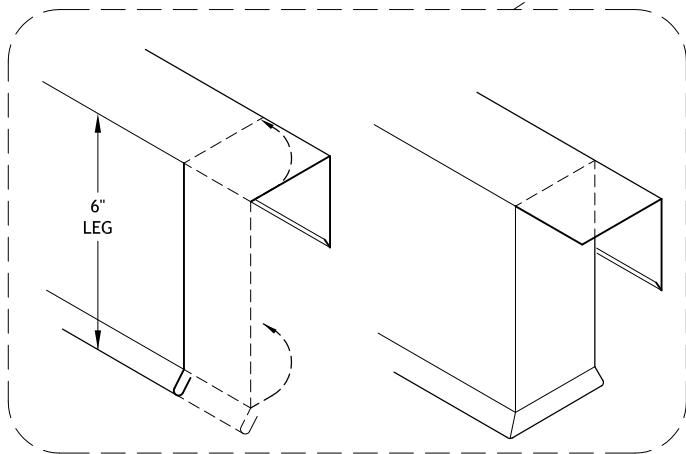
EAVE TRIM

EDGE STIFFENER

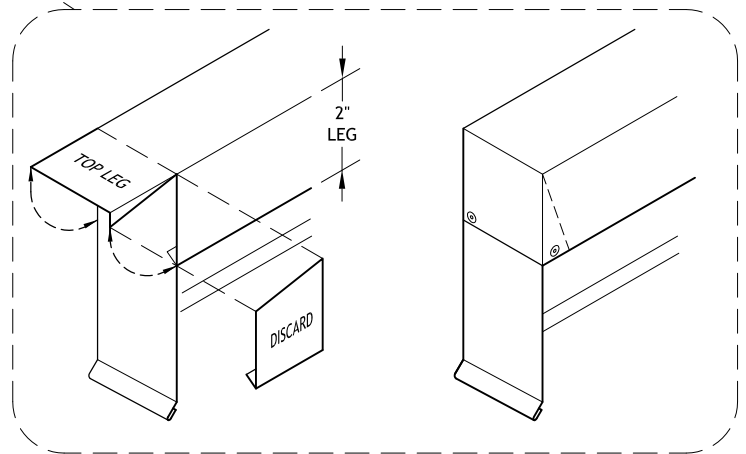
RIVETS

RAKE TRIM

BEND RAKE TRIM AROUND TO CLOSE
NOTE: LEAVE PANEL EXPANSION GAP BETWEEN PANEL EDGE AND END CLOSURE OF RAKE TRIM



***STEP ONE:**
NOTCH 6" LEG OF RAKE TRIM, AND FOLD 90° TO "CAP" OPEN END



STEP TWO: (REVERSE IMAGE)
NOTCH TOP & 2" LEG OF RAKE TRIM, DISCARD 2" LEG, AND FOLD TOP LEG DOWN 90°, AND RIVET (2 PLACES)

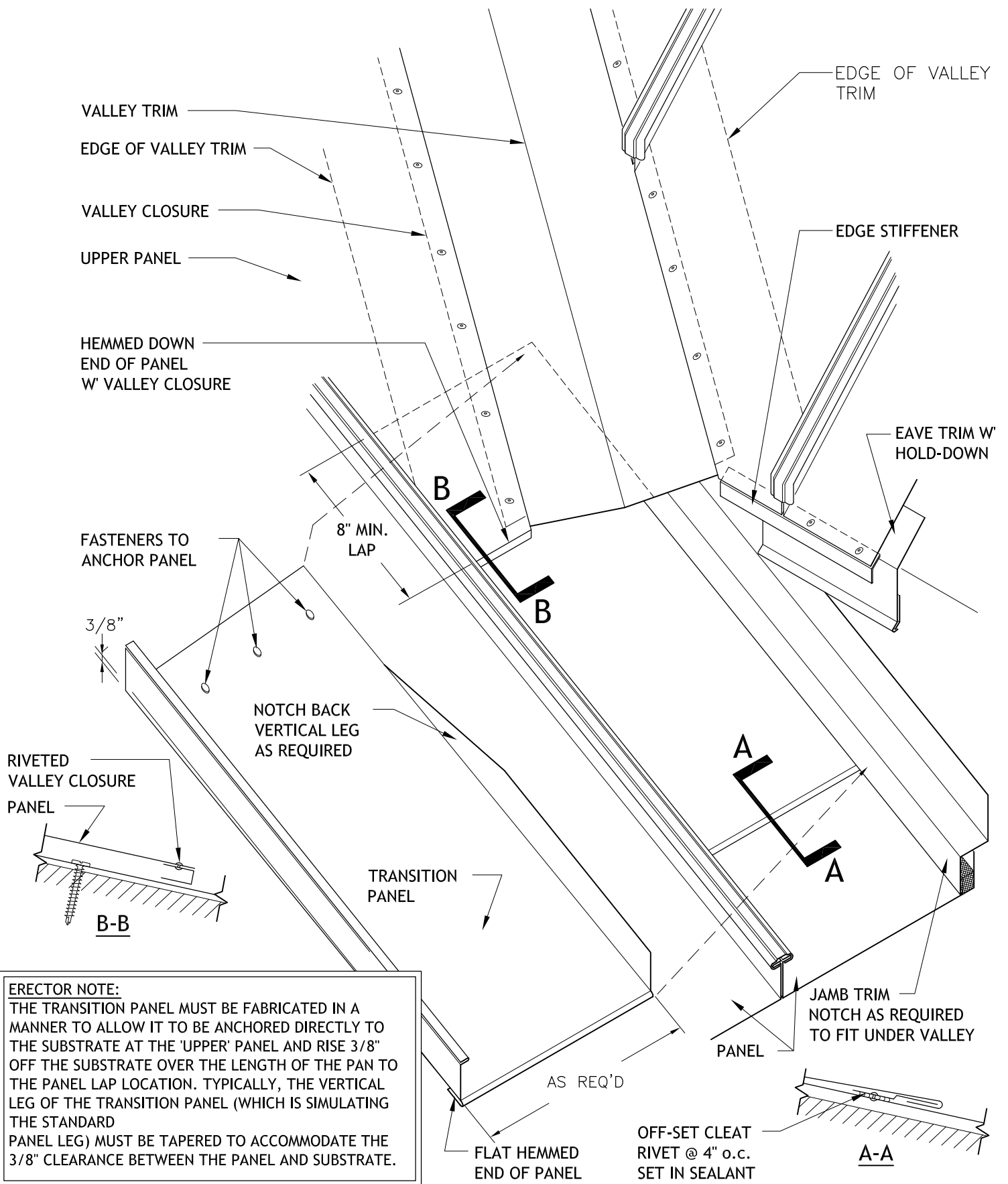


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Rake to Eave
Transition

(FT) FIELD TRANSITIONS



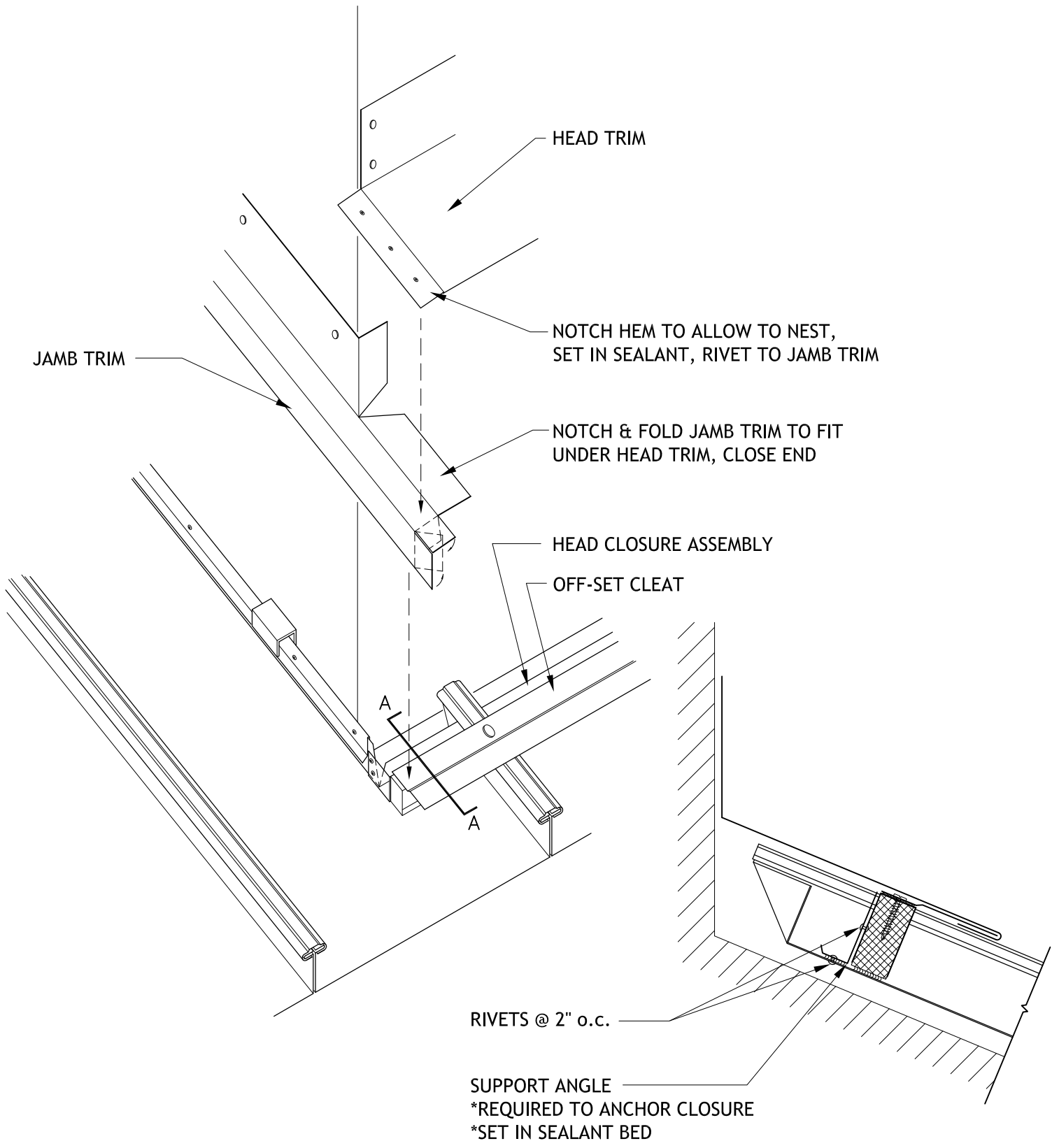
ERECTOR NOTE:
 THE TRANSITION PANEL MUST BE FABRICATED IN A MANNER TO ALLOW IT TO BE ANCHORED DIRECTLY TO THE SUBSTRATE AT THE 'UPPER' PANEL AND RISE 3/8" OFF THE SUBSTRATE OVER THE LENGTH OF THE PAN TO THE PANEL LAP LOCATION. TYPICALLY, THE VERTICAL LEG OF THE TRANSITION PANEL (WHICH IS SIMULATING THE STANDARD PANEL LEG) MUST BE TAPERED TO ACCOMMODATE THE 3/8" CLEARANCE BETWEEN THE PANEL AND SUBSTRATE.



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Valley to Sloping Jamb Transition
 (FT) FIELD TRANSITIONS



RIVETS @ 2" o.c.

SUPPORT ANGLE
 *REQUIRED TO ANCHOR CLOSURE
 *SET IN SEALANT BED

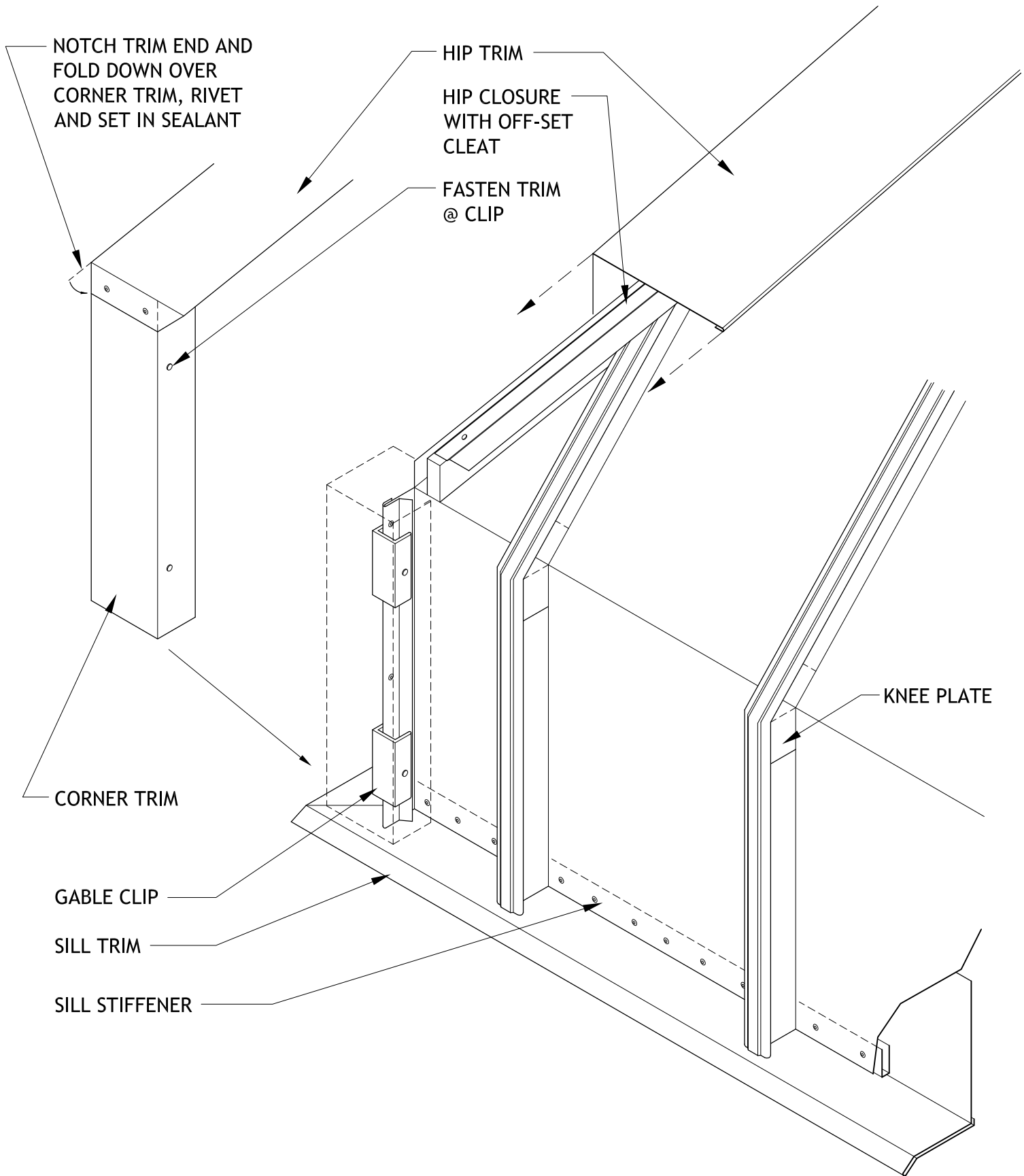
SECTION A-A



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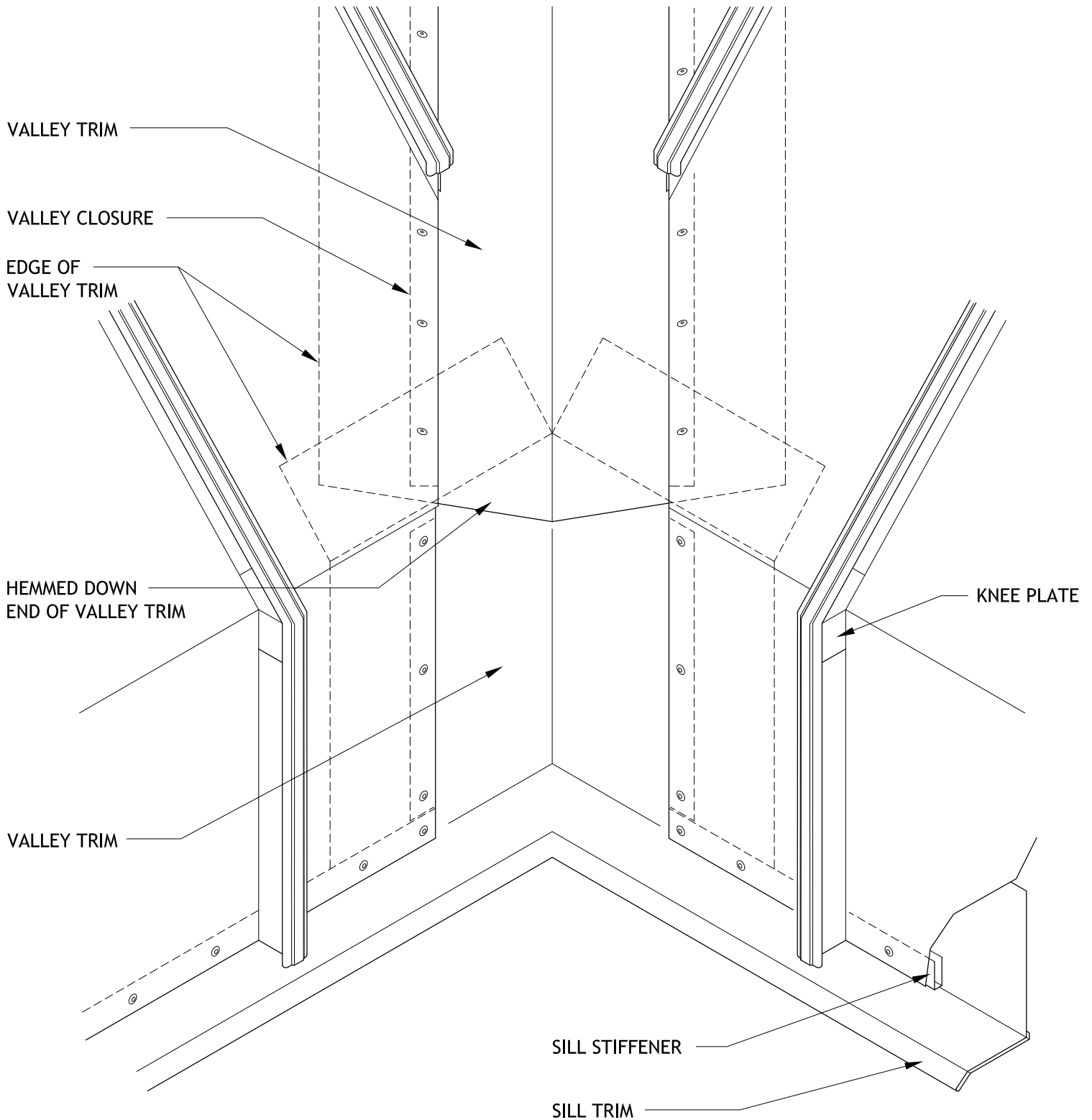
Sloping Jamb to Head
 Transition
 (FT) FIELD TRANSITIONS



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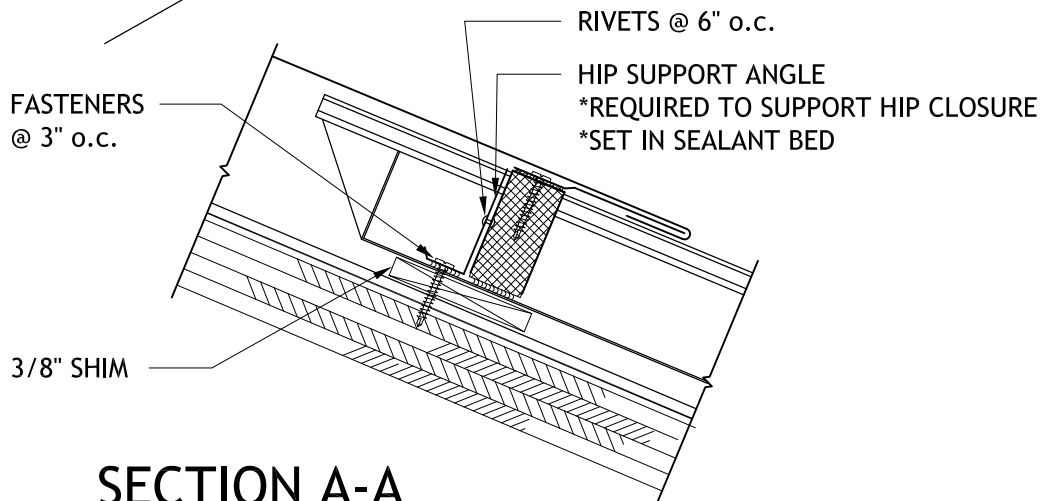
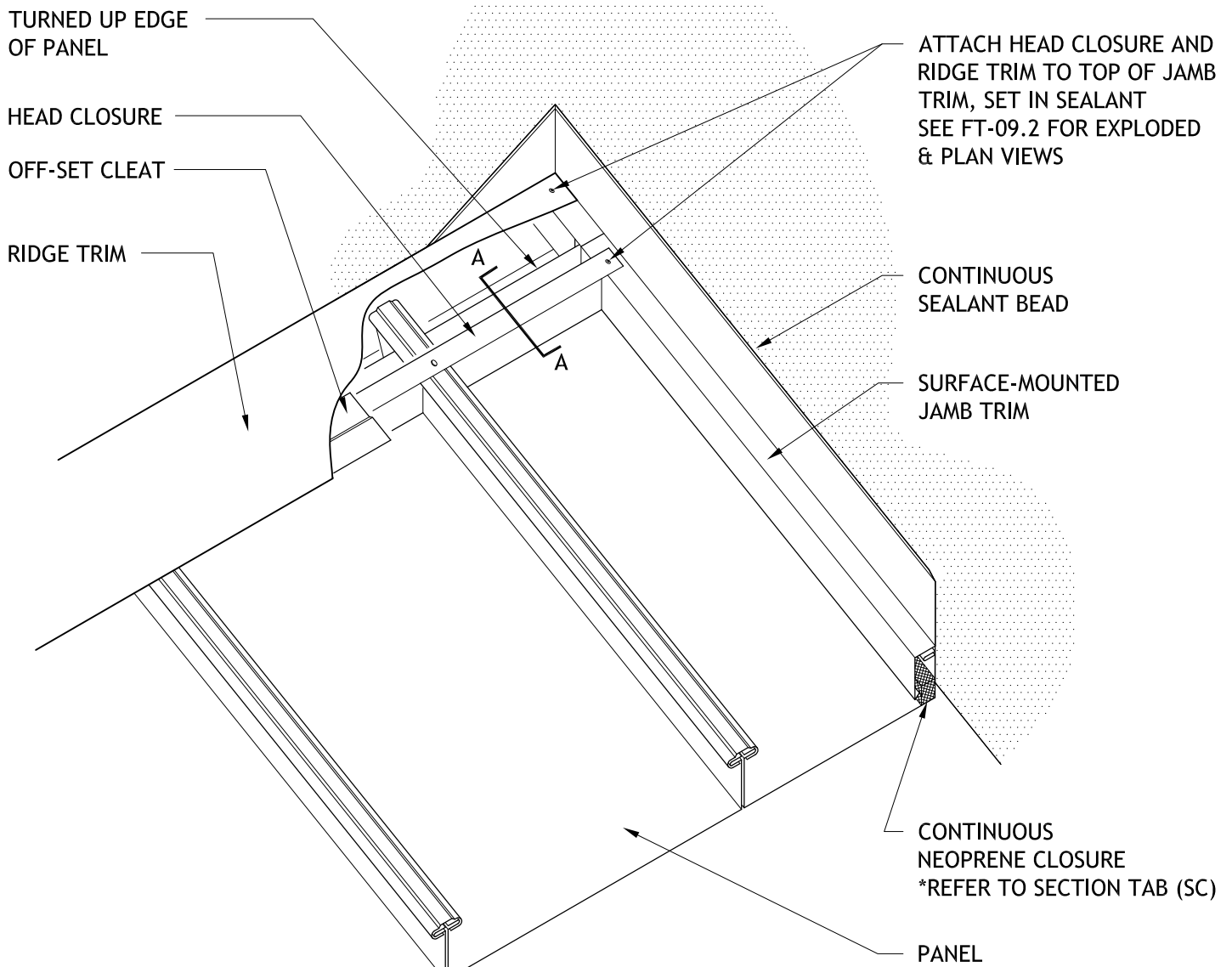
Hip to Vertical Trim
 Transition
 (FT) FIELD TRANSITIONS



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Valley to Vertical Trim
 Transition
 (FT) FIELD TRANSITIONS



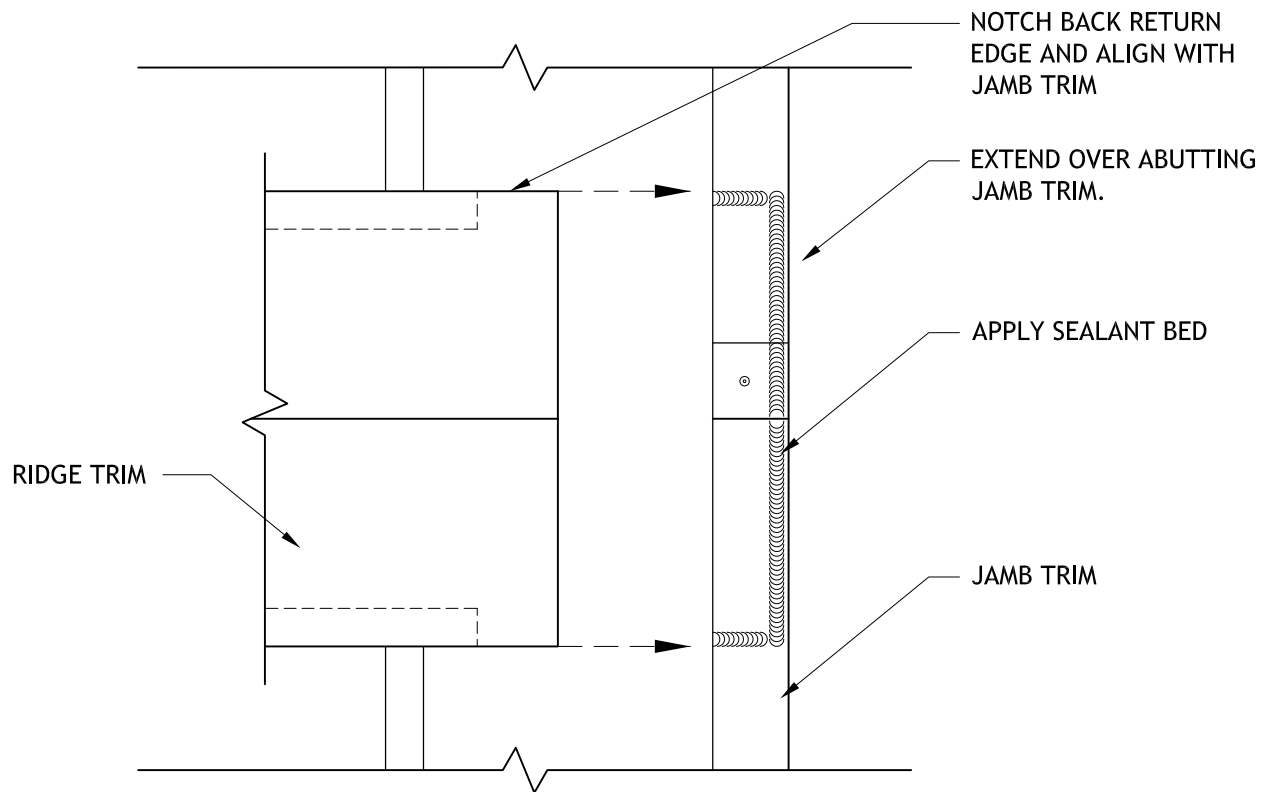
SECTION A-A



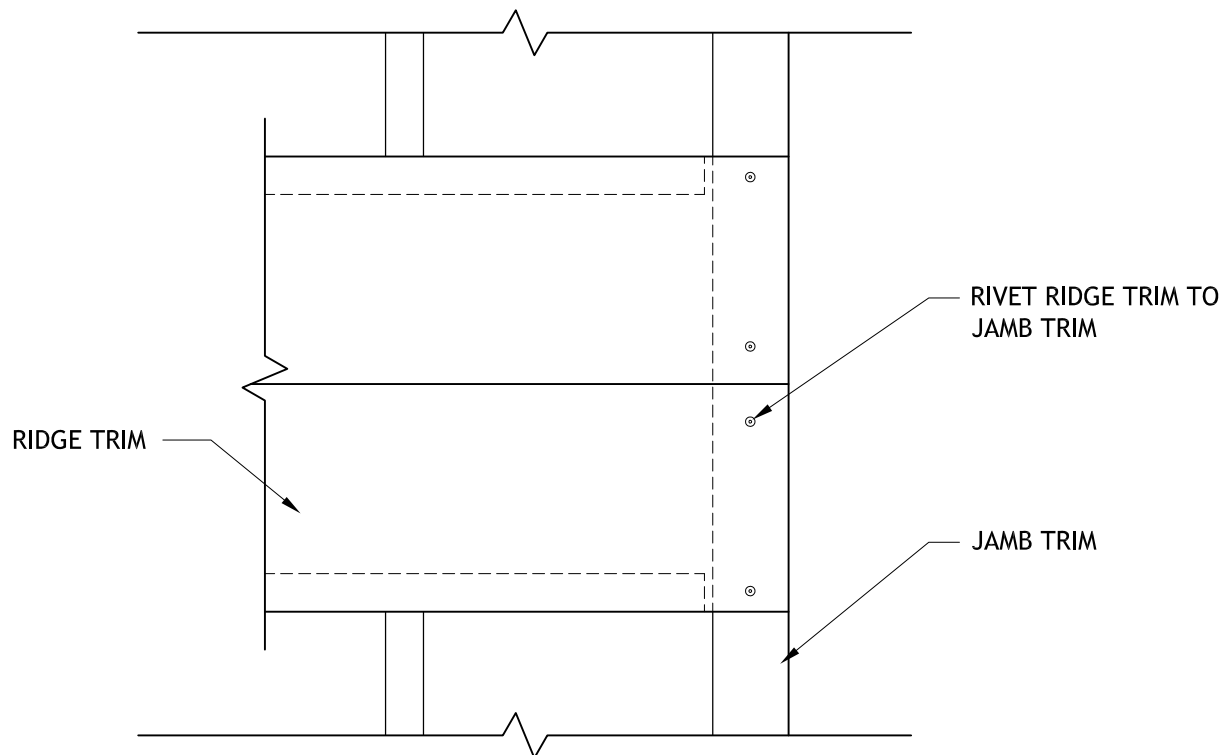
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Ridge to Jamb Transition
 (Detail 1 of 2)
 (FT) FIELD TRANSITIONS



EXPLODED VIEW



PLAN VIEW



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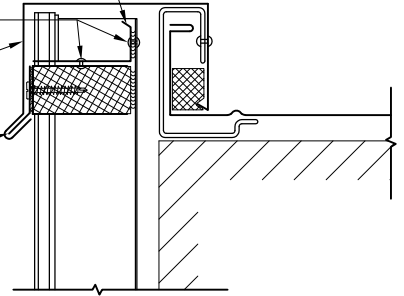
Ridge to Jamb Transition
(Detail 2 of 2)
(FT) FIELD TRANSITIONS

SUPPORT ANGLE
 *REQUIRED TO ANCHOR CLOSURE
 *SET IN SEALANT BED

RIVETS 2" o.c.

RAKE TRIM

HOLD-DOWN CLEAT
 SET IN CONTINUOUS
 BUTYL TAPE SEALANT



SECTION A-A

RIDGE TRIM

APPLY SEALANT AS
 SHOWN ON BOTH SIDES

RAKE TRIM

NOTCH TO ALLOW RIDGE
 TRIM TO FIT OVER RAKE TRIM.

RIVETS

APPLY SEALANT AS
 SHOWN ON BOTH SIDES

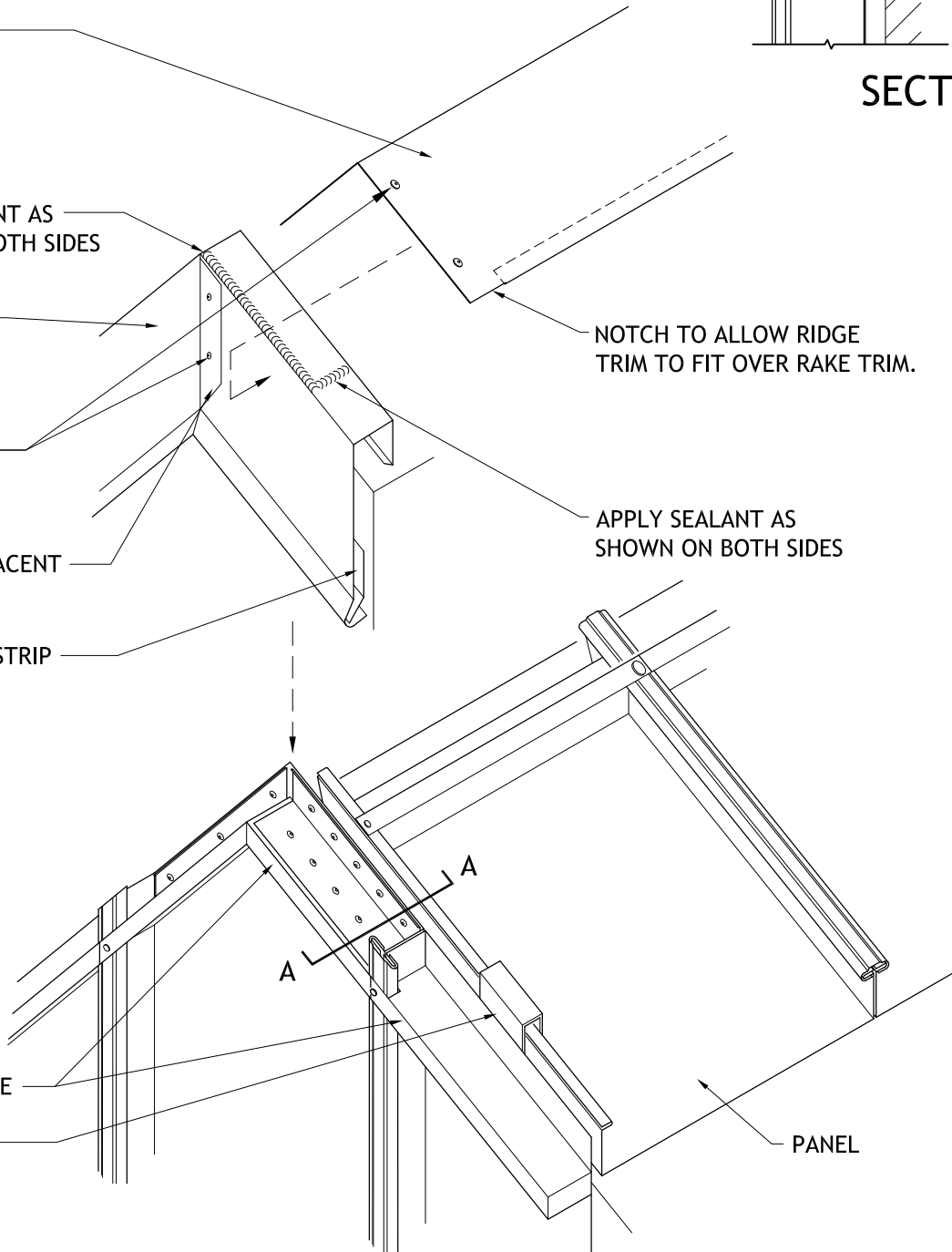
EDGE OF ADJACENT
 RAKE TRIM

HOLD-DOWN STRIP

HEAD CLOSURE

GABLE CLIP

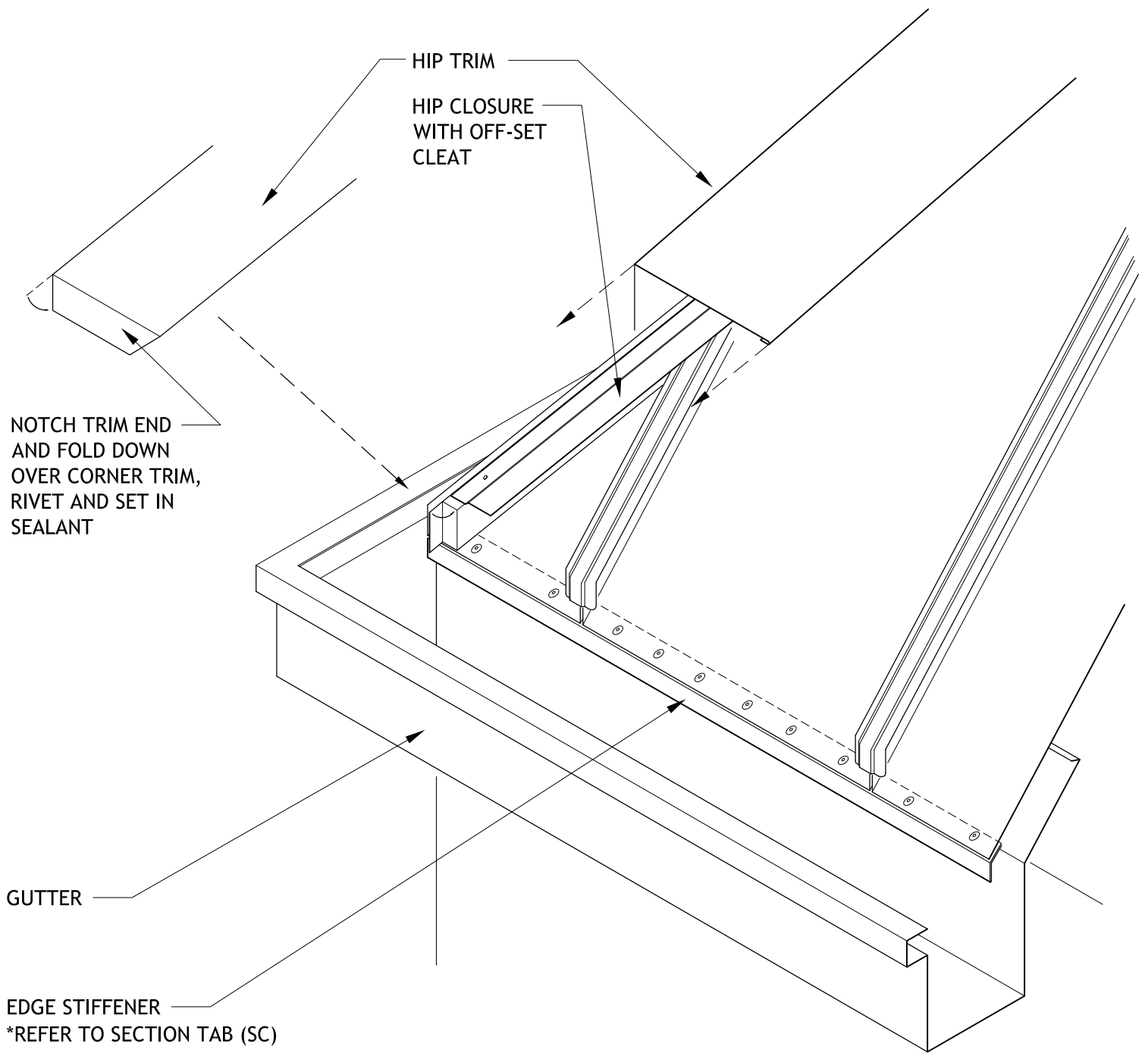
PANEL



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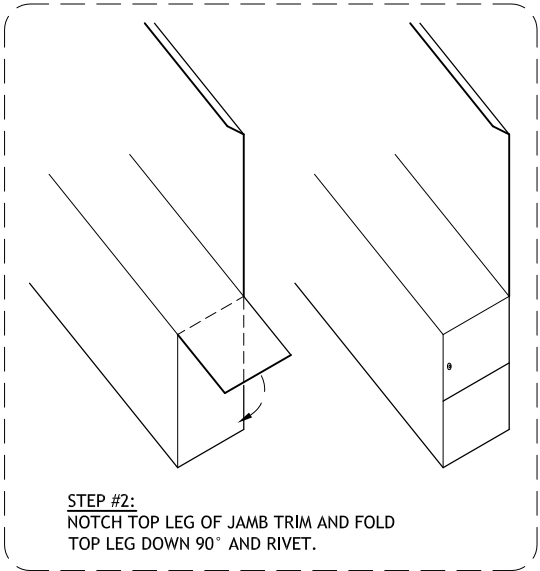
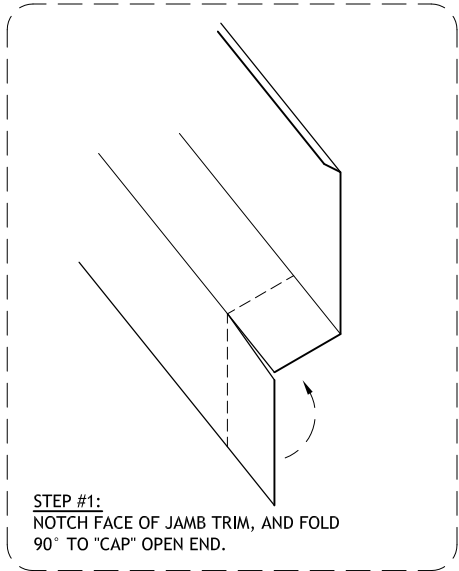
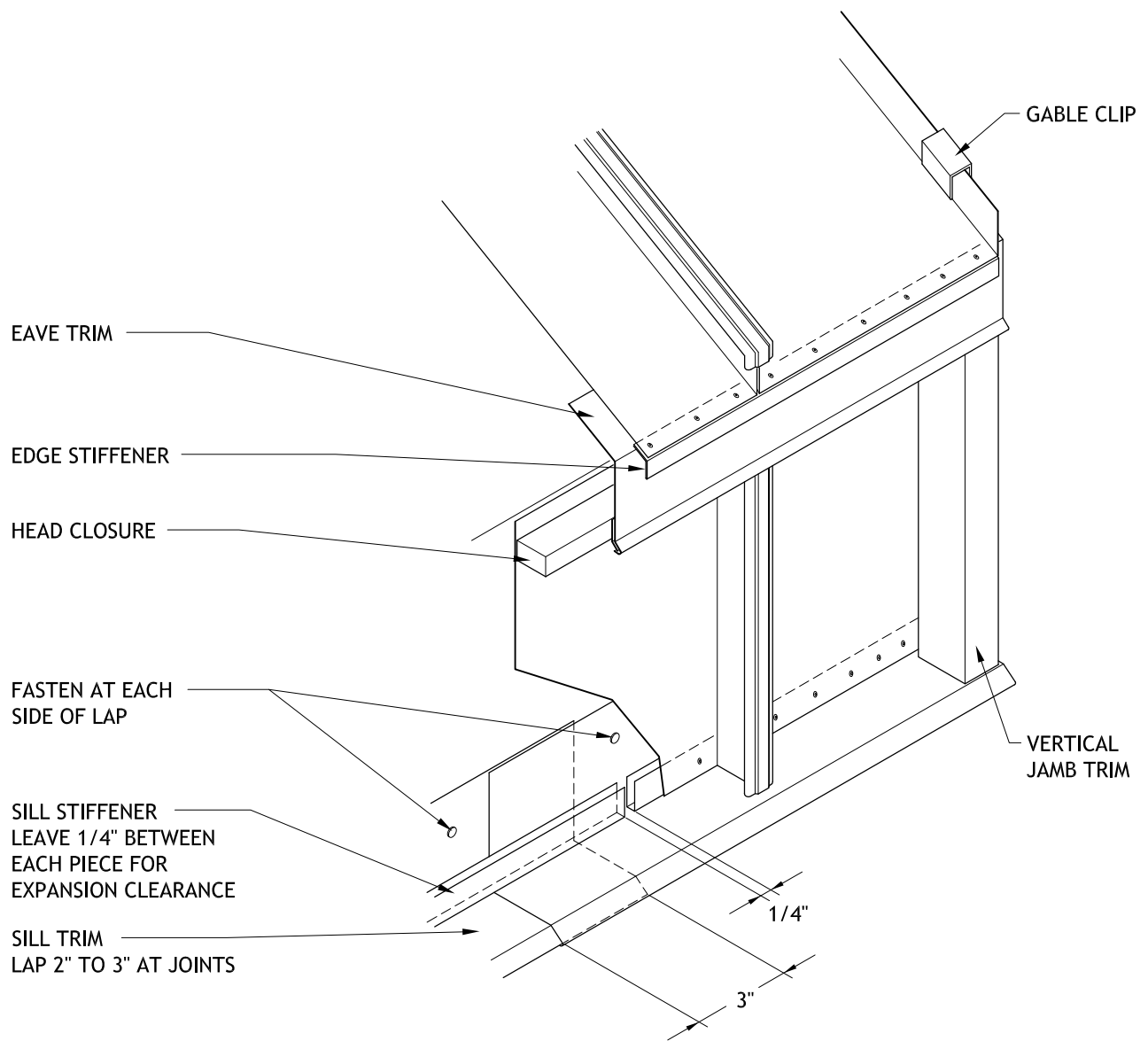
10

**Vertical Panel to Rake
 Transition
 (FT) FIELD TRANSITIONS**



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11 Hip at Gutter
 Transition
(FT) FIELD TRANSITIONS



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**Vertical and Sloping Detail
at Jamb Transition
(FT) FIELD TRANSITIONS**

ATTACH HEAD CLOSURE
AND RIDGE TRIM TO TOP
OF JAMB TRIM, SET IN
SEALANT

SEALANT BEAD

SURFACE-MOUNTED
JAMB TRIM

CONTINUOUS
FOAM CLOSURE
*REFER TO SECTION TAB (SC)

PANEL

HEAD CLOSURE

OFF-SET CLEAT

PEAK TRIM

HOLD-DOWN CLEAT



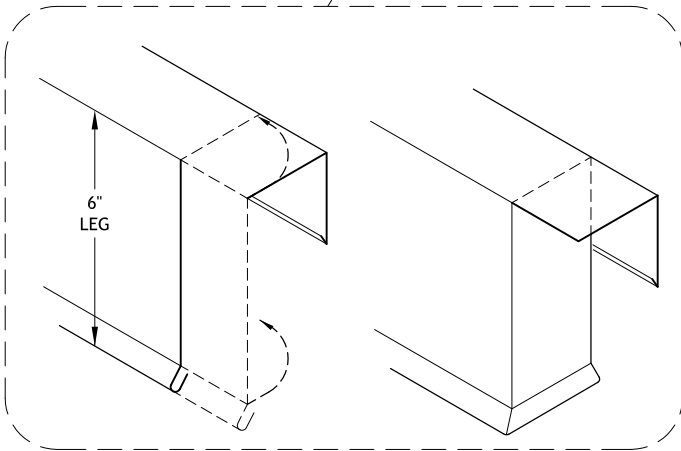
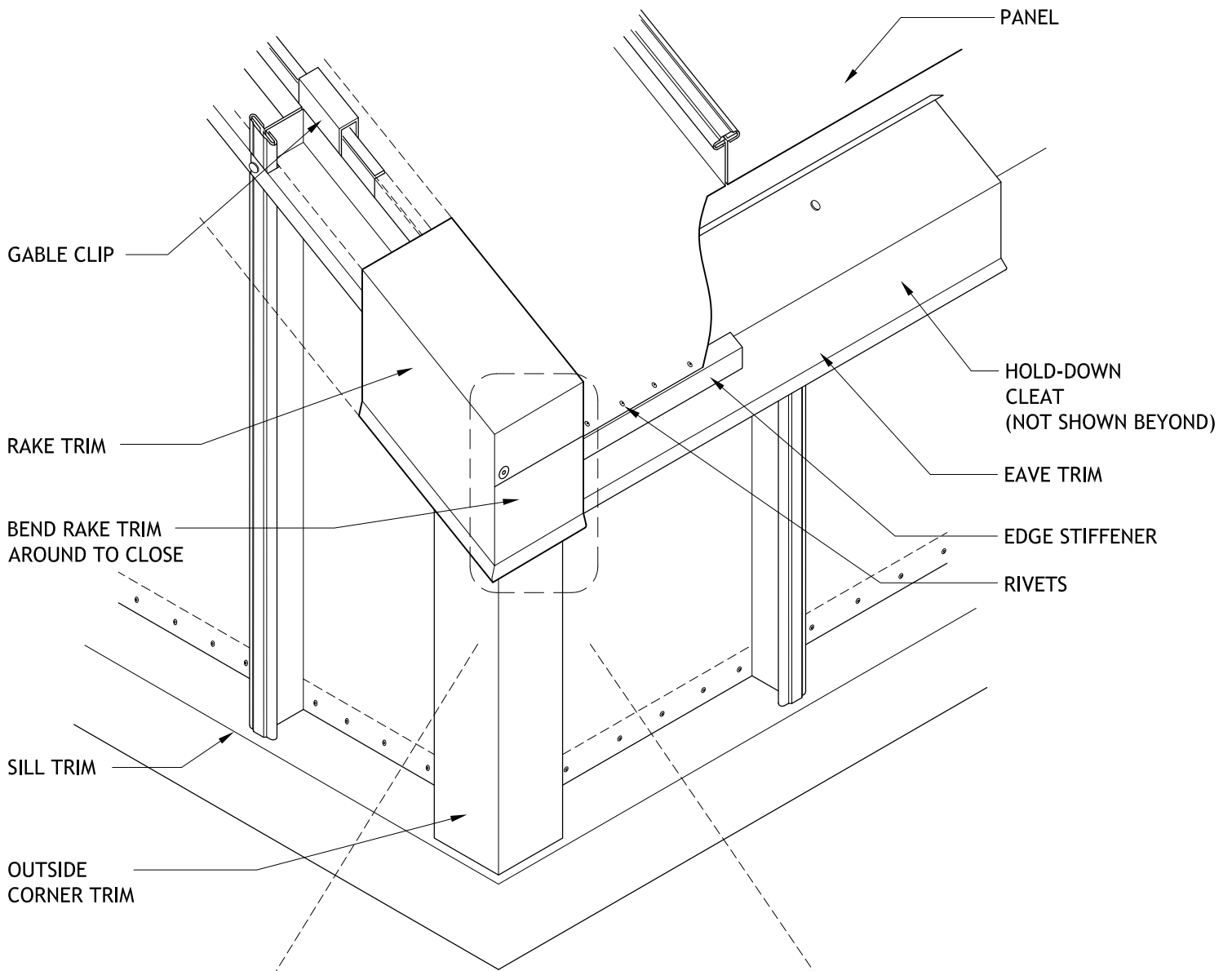
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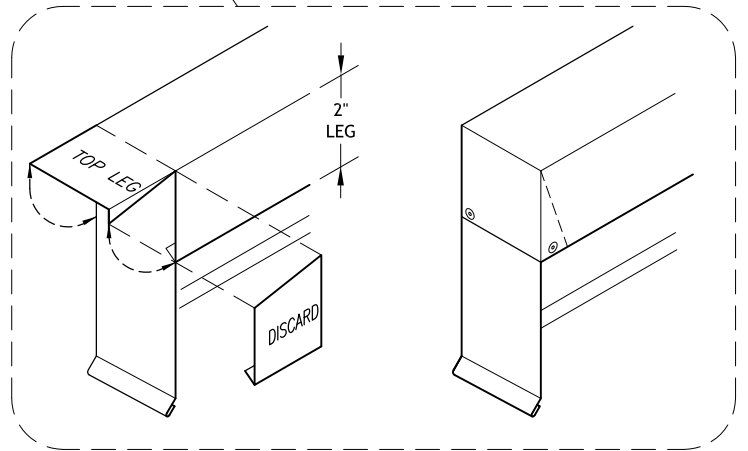
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Shed Ridge to Jamb
Transition
(FT) FIELD TRANSITIONS



***STEP ONE:**
NOTCH 6" LEG OF RAKE TRIM, AND FOLD 90° TO "CAP" OPEN END



STEP TWO: (REVERSE IMAGE)
NOTCH TOP & 2" LEG OF RAKE TRIM, DISCARD 2" LEG, AND FOLD TOP LEG DOWN 90°, AND RIVET (2 PLACES)



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Rake to Eave Transition
with Vertical Panels
(FT) FIELD TRANSITIONS

