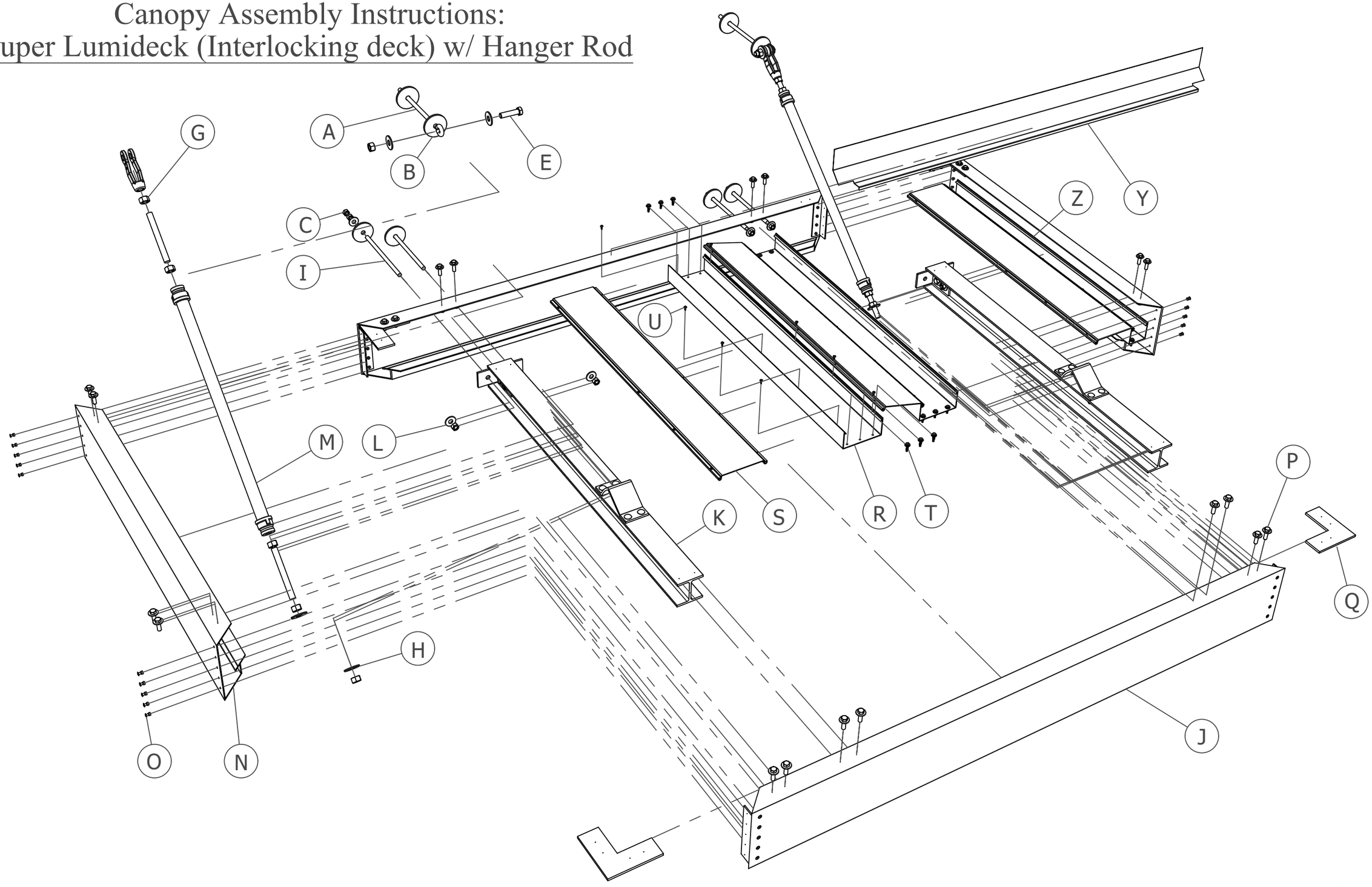
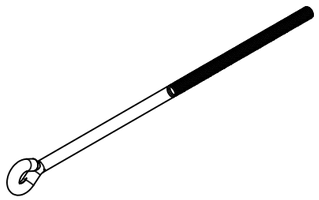
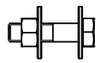
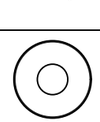
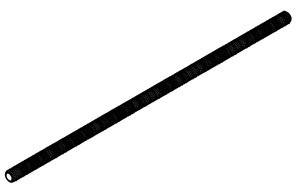
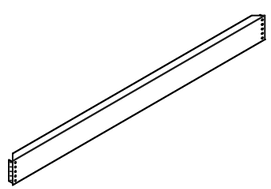
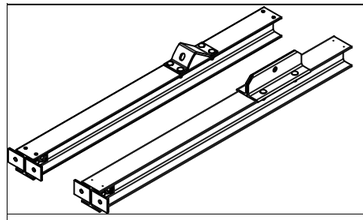
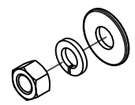
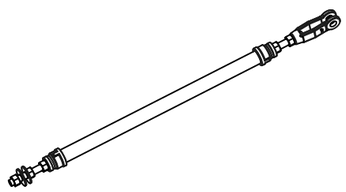
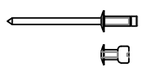
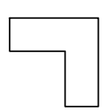
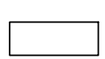
Canopy Assembly Instructions:
Super Lumideck (Interlocking deck) w/ Hanger Rod

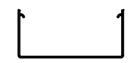
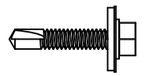


Parts List: Super Lumideck (Interlocking deck) w/ Hanger Rod

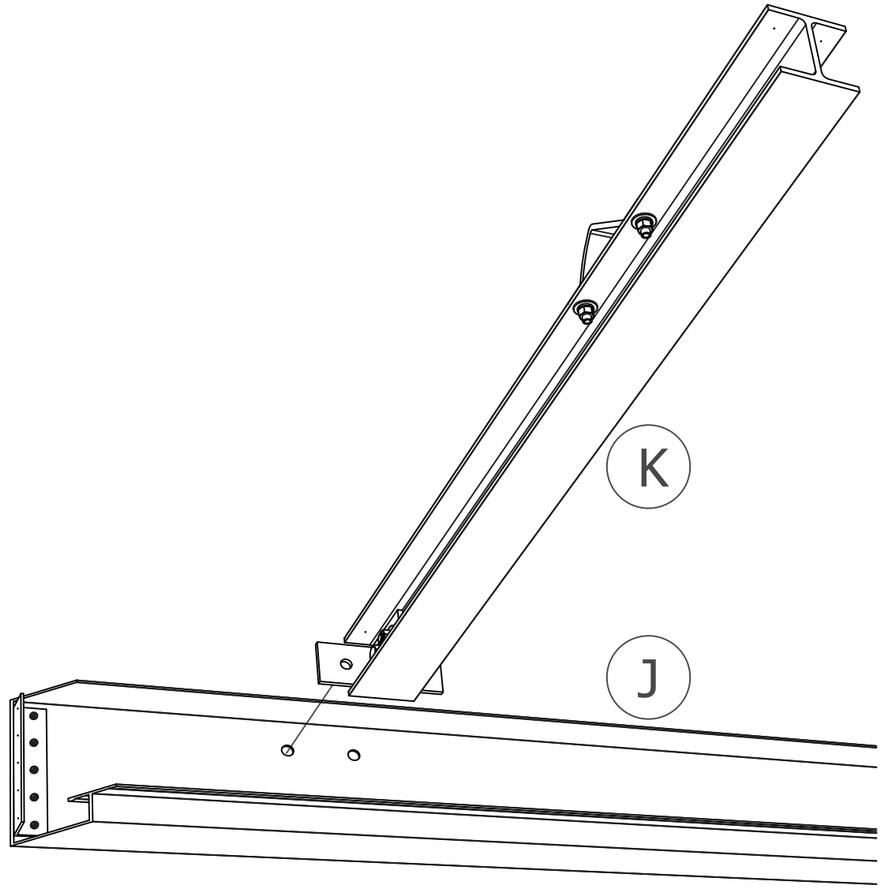
	A	1/2" Eyebolt
	B	3" Washer
	C	1/2" Nut
 	E G	5/8"x2 1/2" Thru Bolt Assembly 5/8" Nut
	H	5/8" Washer
	I	1/2" Threaded Rod
	J	Fascia Assembly

* *Note: Eyebolts, threaded rod, crush sleeve are supplied long - field-cut to length*

	K	Hanger Beam Assembly
	L	1/2" Washer, Lock Washer, Nut
	M	1" Hanger Pipe Assembly
	N	8"x.125 Fascia
	O	3/16" Pop Rivet
	P	3/8"x1 1/4" Machine Bolt Assembly
	Q	Fascia Corner Support Plate
	Q1	Fascia Splice Top Plate

	R	6"x2 3/4"x.078 Lower Deck
	S	7"x.078 Upper Deck
	T	#12-24 5pt Tek Screw
	U	#8-18 Tek Screw
	W	Drain Stub
	X	2 1/2"x3" Downspout
	Y	Flashing
	Z	3"x2 3/4"x.078 Lower Deck

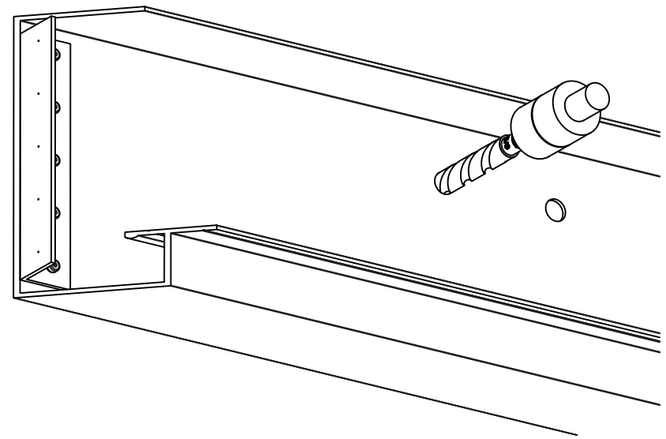
* *Note: Flashing supplied long - field-cut and field-notch*

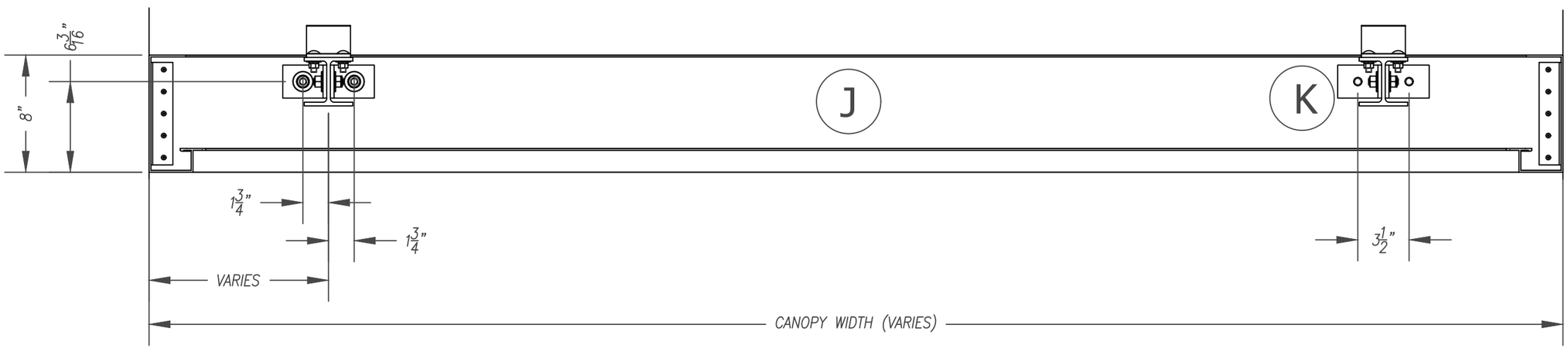


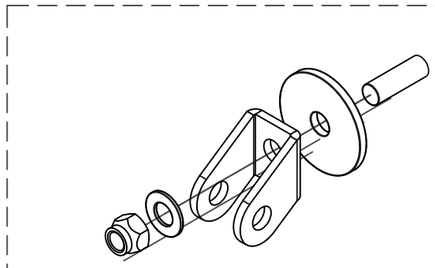
1. Drill Wall Fascia For Mounting

a)Using I-beam assembly rear clips (K) as guide, put directly on fascia (J) to mark out holes. Use a center punch for accurate drilling. (NOTE: I-beam assemblies are factory-assembled with front and rear clips.)

b)Using approved shop drawings as guide, measure and locate holes spacing in wall to correspond to rear fascia holes spacing. Drill 11/16" holes in fascia (J) for easier fit.

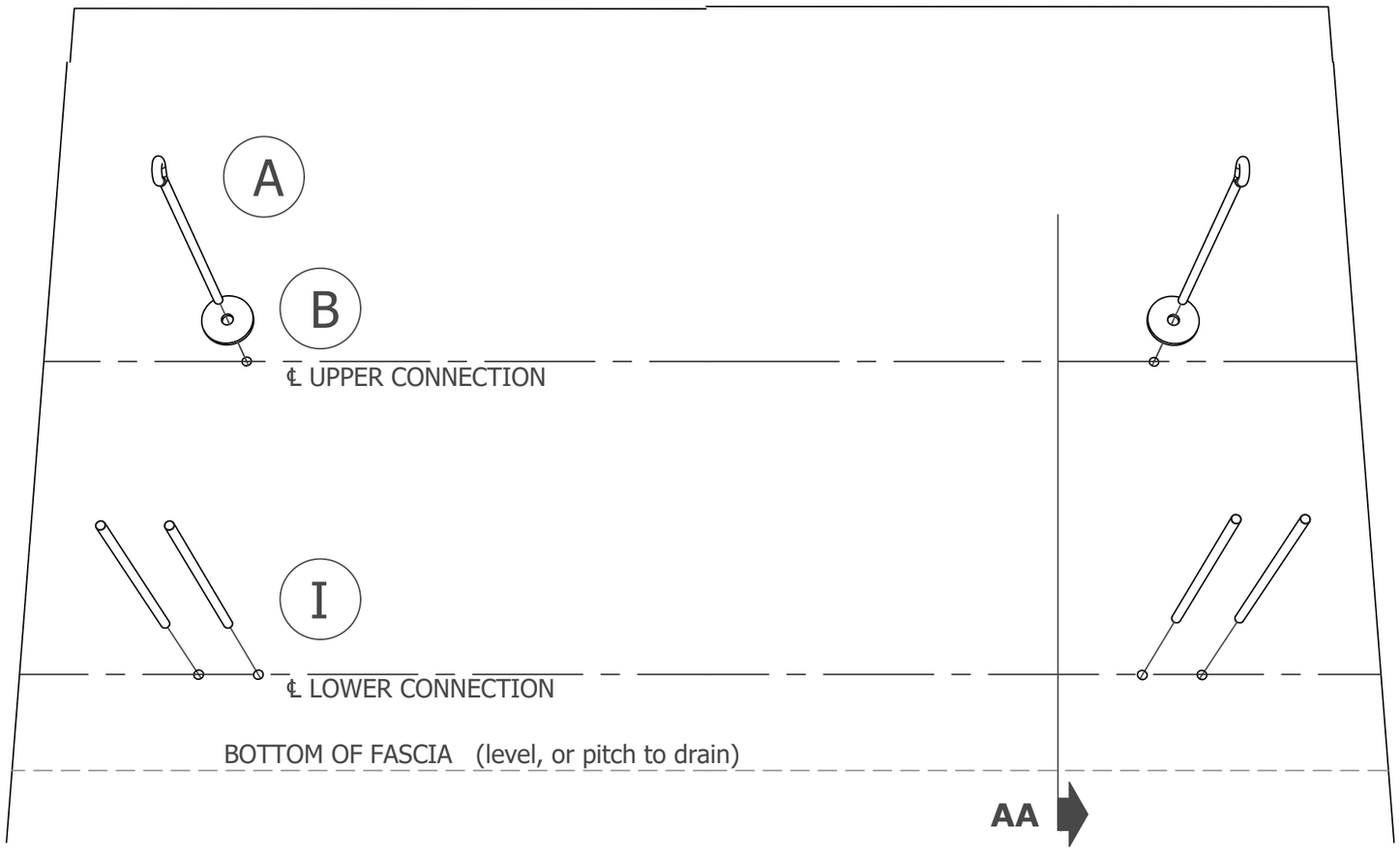






'U' Clip Alternative,
Figure 3

* *Note: Eyebolts, threaded rod, crush sleeve are supplied long - field-cut to length*

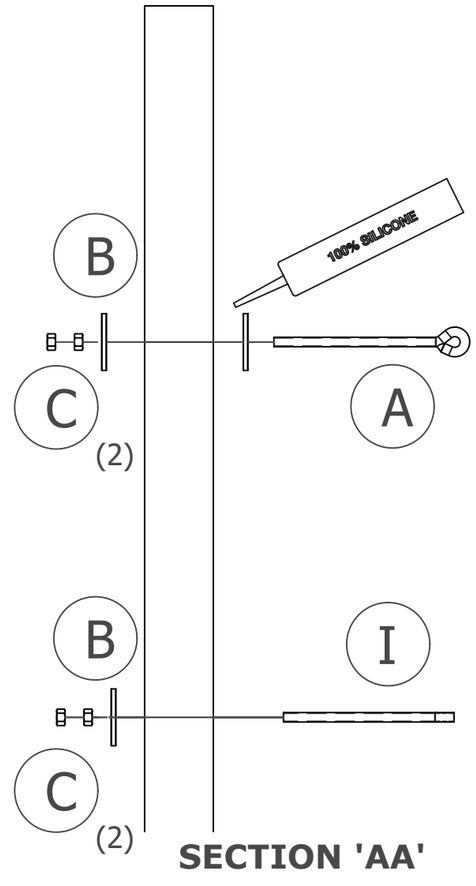


2. Install Upper and Lower Wall Anchors

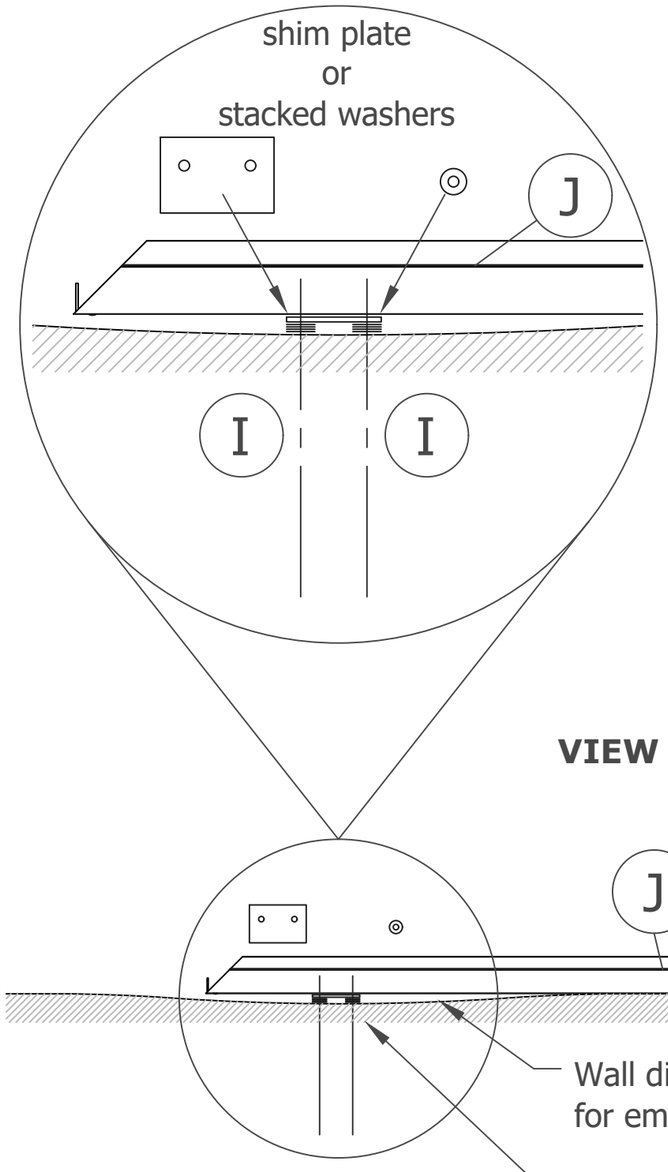
a) Eyebolt (A), collars (B), escutcheon plates (if used), backing plates (B)(C), threaded rod (I).

b) Seal all around wall penetrations and behind escutcheon plates or collars.

c) Alternative upper connection: through rod pre-installed during construction; escutcheon, steel 'u' clip, $\frac{5}{8}$" flat washer, & nylon lock nut added later, with canopy installation (Figure 3).



SECTION 'AA'



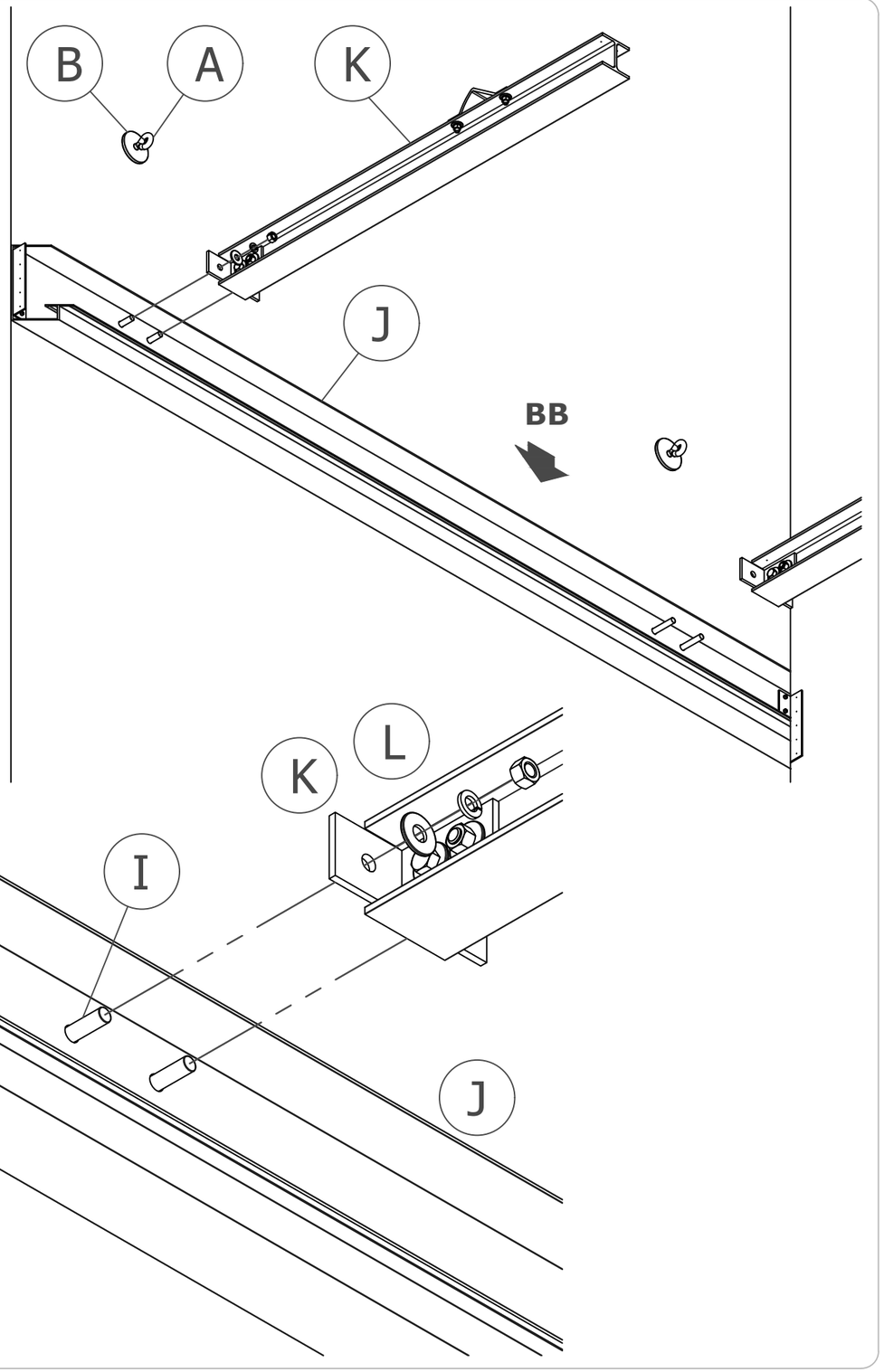
3. Assemble Back Fascia, Hanger Beams and Hanger Rods

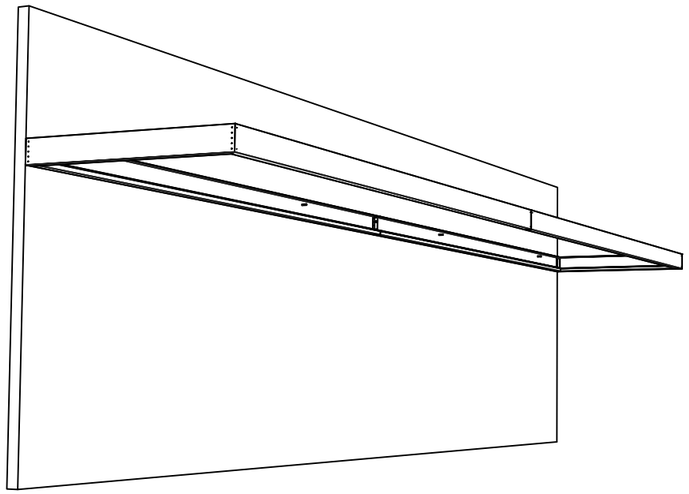
a) 1 ½" x 1 ½" inside corner braces are already assembled to fascia on 1 side (J).

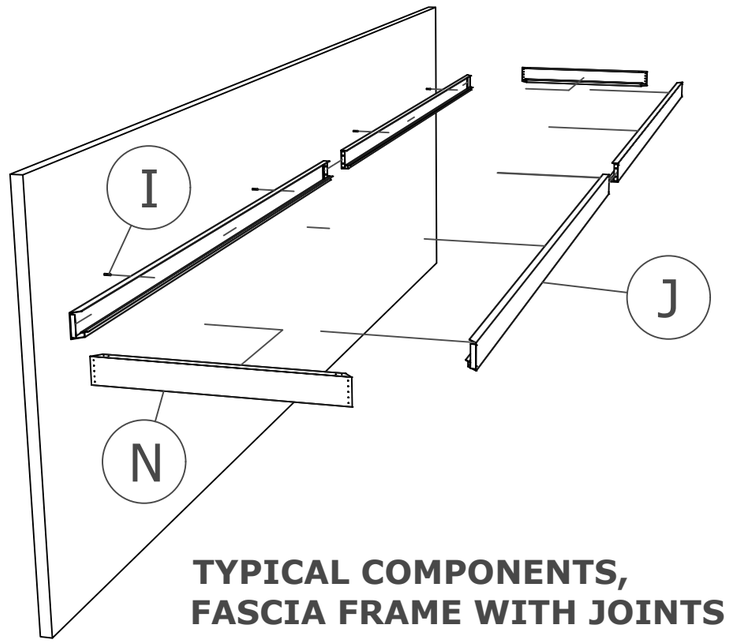
b) Hanger beams are preassembled with front and rear clips (K).

c) Before installing rear fascia (J), check wall for uneven areas. Shim behind fascia at wall if required to prevent deflection when rear fascia is tightened to wall (shim material by installer).

d) Fasten rear fascia (J) to wall with I-beam assembly (K)(L).







TYPICAL COMPONENTS, FASCIA FRAME WITH JOINTS

OPTION: Fascia Splice:

a. On long canopies, fascia runs may be fabricated in shorter sections, due to length or handling restrictions, and are assembled on site.

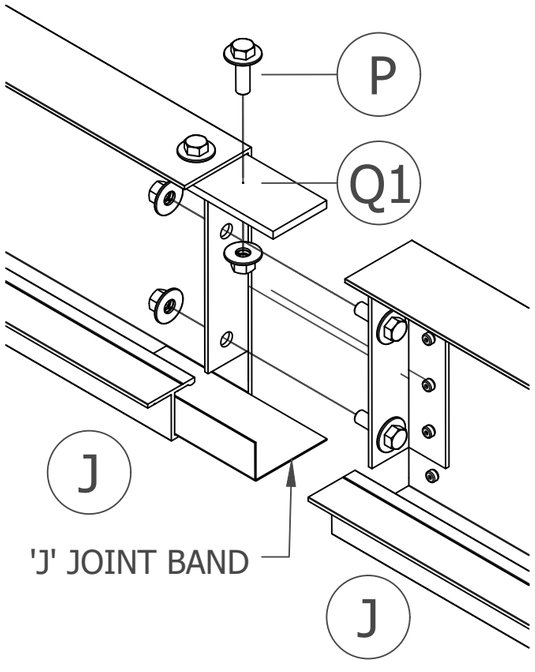
b. Fascia pieces are preassembled with 1 1/2" x 1 1/2" angles at splice location.

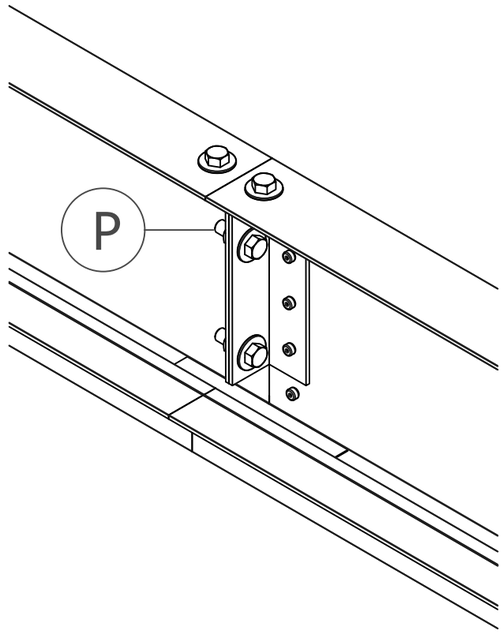
When fascia "breaks" between hanger beams (preferred):

c. Mate fascia pieces (J) using 3/8" machine bolt assemblies (P) to draw joint angles together for a tight splice.

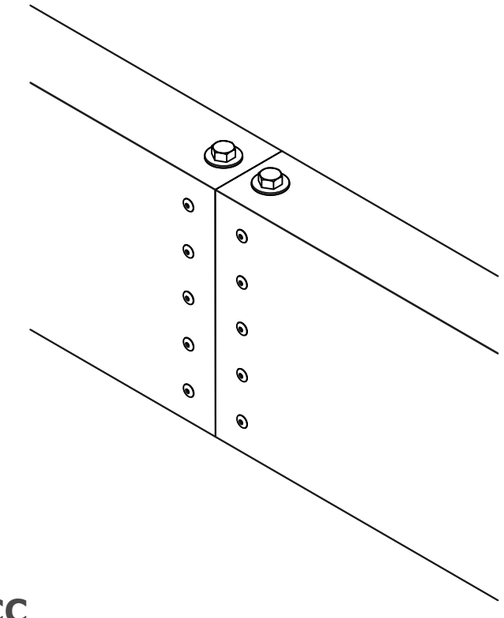
d. Clamp and drill 7/16" holes through fascia (J) top lip and 2” x 6” top splice plate (Q1) and fasten top splice plate underneath top lip of fascia (J) using (2) 3/8” machine bolt assemblies (P) to join fascia pieces.

e. Seal in joint band and joint angles at all fascia breaks.

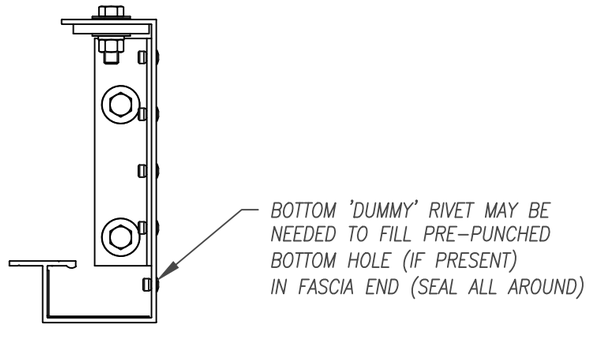




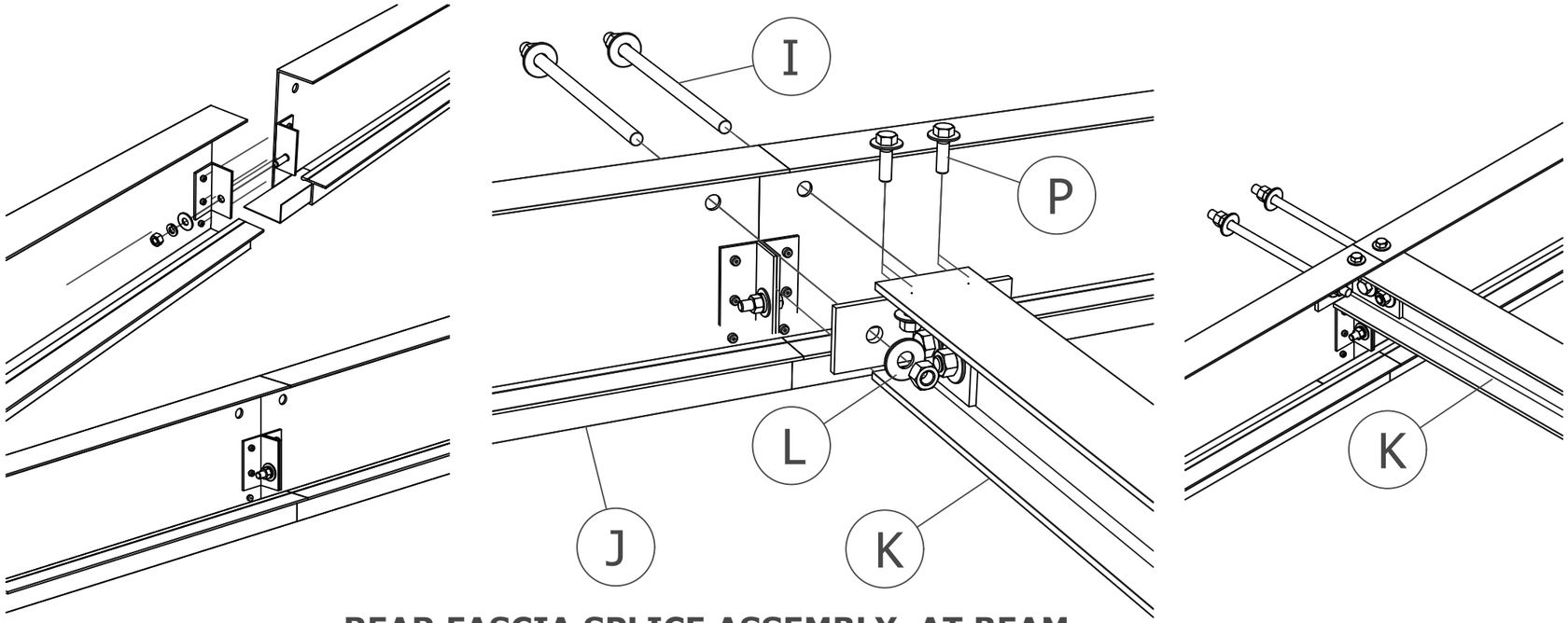
FASCIA SPLICE ASSEMBLY



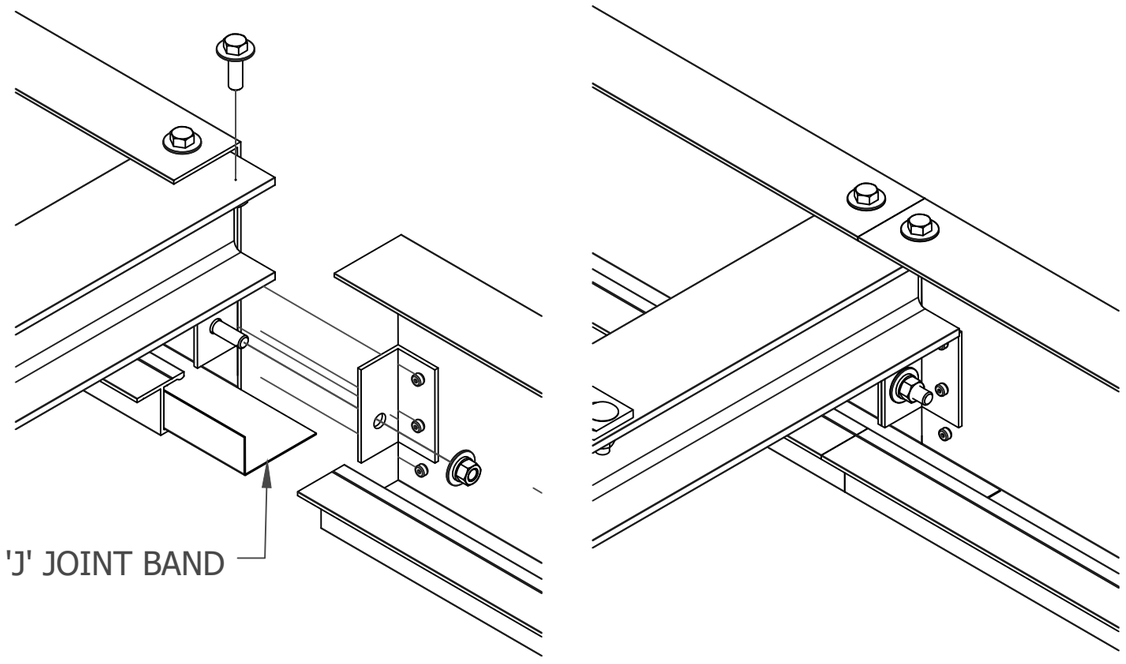
CC



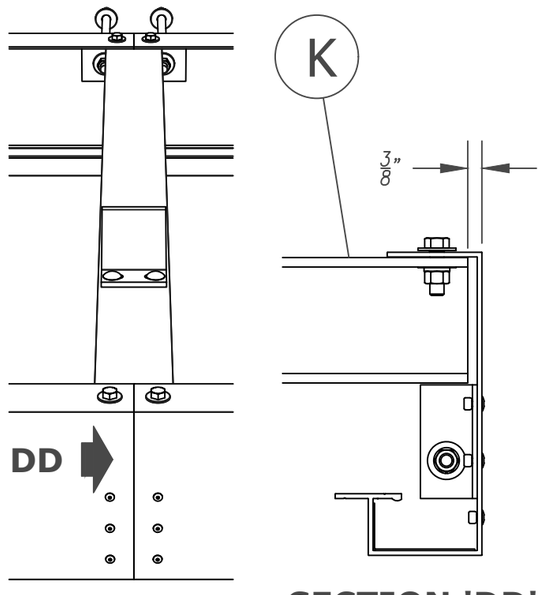
SECTION 'CC'



REAR FASCIA SPLICE ASSEMBLY, AT BEAM



FRONT FASCIA SPLICE ASSEMBLY, AT BEAM



SECTION 'DD'

OPTION: Fascia Splice (continued):

a. On long canopies, fascia runs may be fabricated in shorter sections, due to length or handling restrictions, and are assembled on site.

b. Fascia pieces are preassembled with 1 1/2" x 1 1/2" angles at splice location.

When fascia "breaks" at hanger beams (less preferred):

f. Mate **REAR** fascia pieces (J) using 3/8" machine bolt assembly (P) to draw joint angles together for a tight splice.

g. Clamp and drill 7/16" holes through **REAR** fascia (J) top lip and hanger beam (K) top flange and fasten beam underneath top lip of fascia (J) using (2) 3/8” machine bolt assemblies (P) to join fascia pieces.

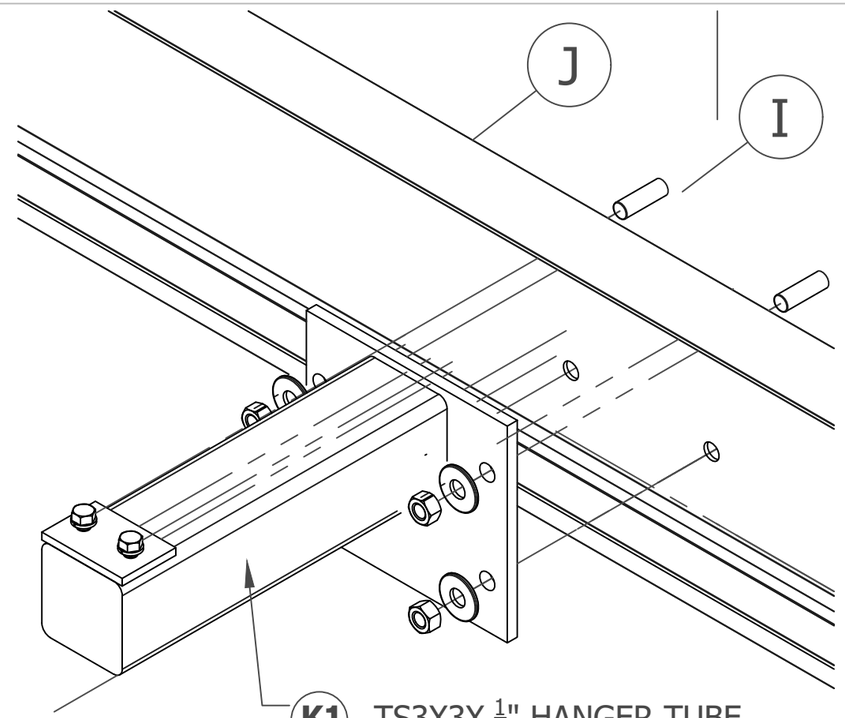
h. Hang fascia assembly on wall bolts.

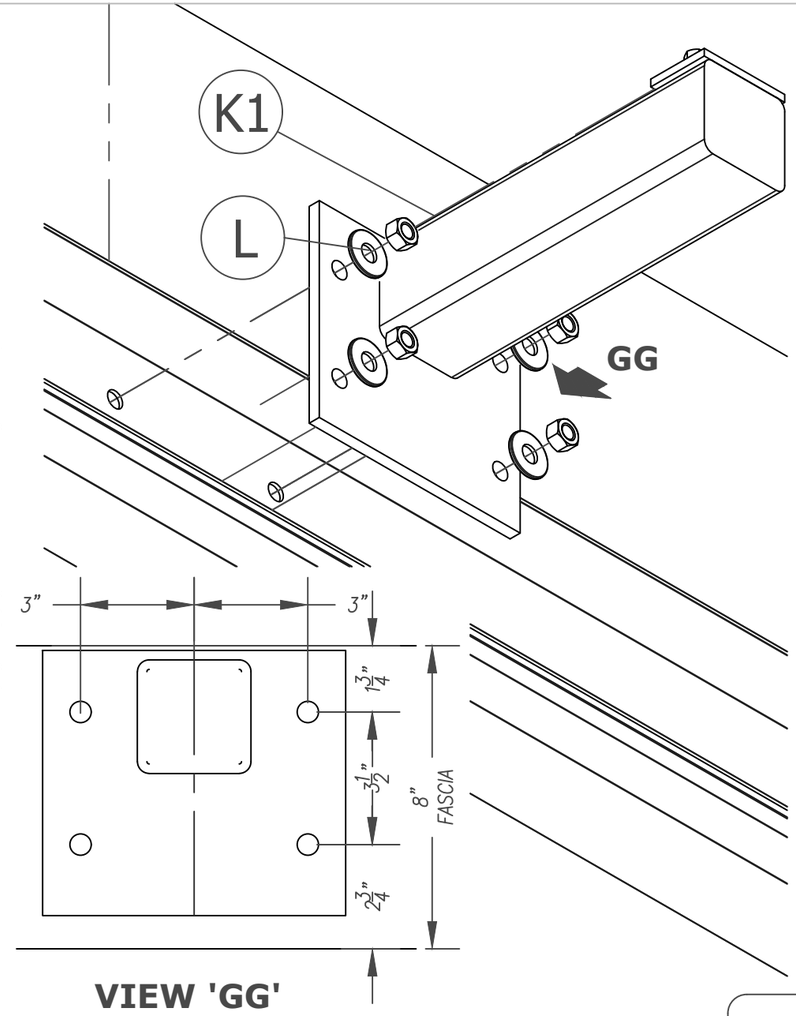
i. Install beam/clip assembly on wall bolts, sandwiching fascia between wall and beam.

j. On **FRONT** fascia, follow same procedure as in (**f.**) above, assuring fascia pieces butt together.

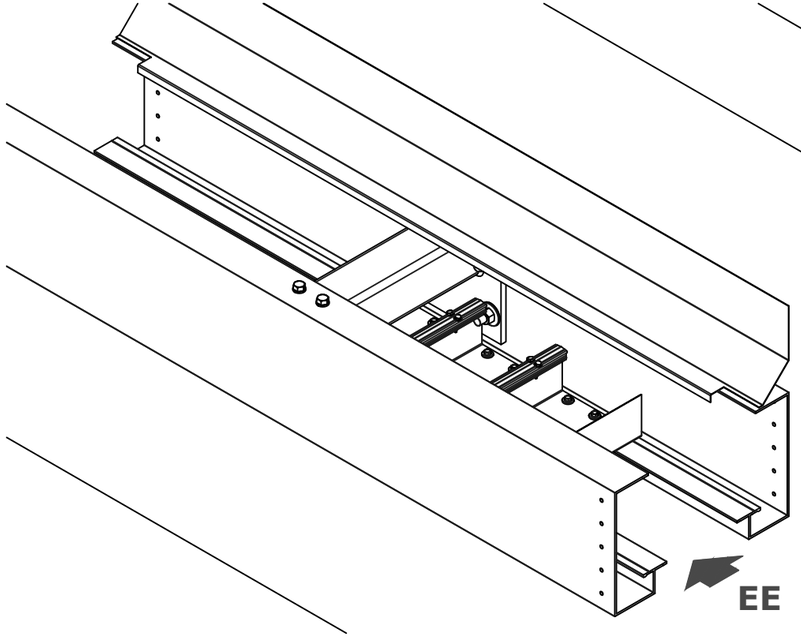
k. Fasten **FRONT** fascia to hanger beam per (**g.**) above, EXCEPT offset fascia face 3/8" forward of front of beam.

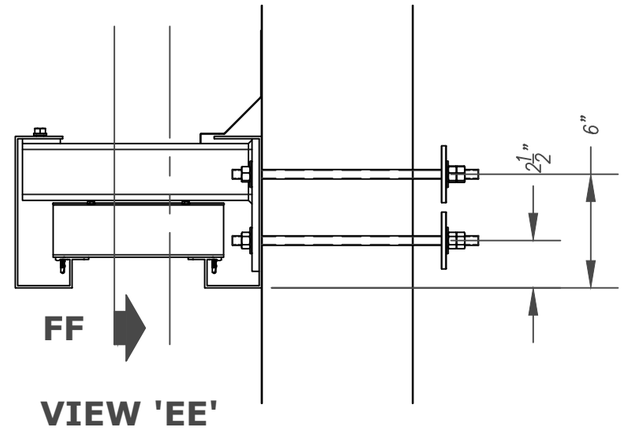
l. Seal in joint band and joint angles at all fascia breaks.





VIEW 'GG'





VIEW 'EE'

OPTION: Cantilever Tube Hanger (no hanger rod):

a. On some canopy applications where overhead connection, i.e. hanger rod, may not be possible or desirable, a "cantilever" support system is then used**.** Mapes supplies a steel tube hanger beam assembly for these situations.

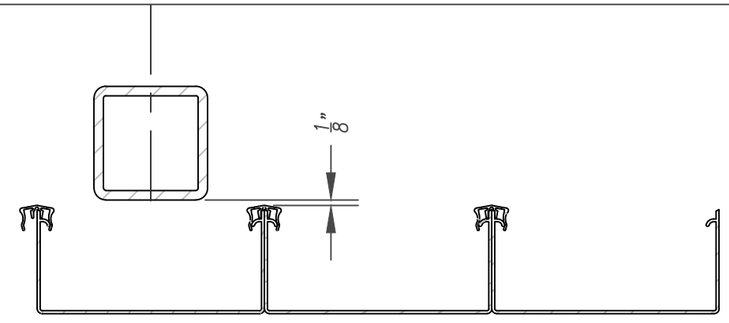
b. As per Step 1-a) & -b) on page 3, use hanger tube wall plate as template for wall bolt drilling in rear fascia.

c. Drill 11/16" holes in rear fascia, to correspond to wall anchor layout.

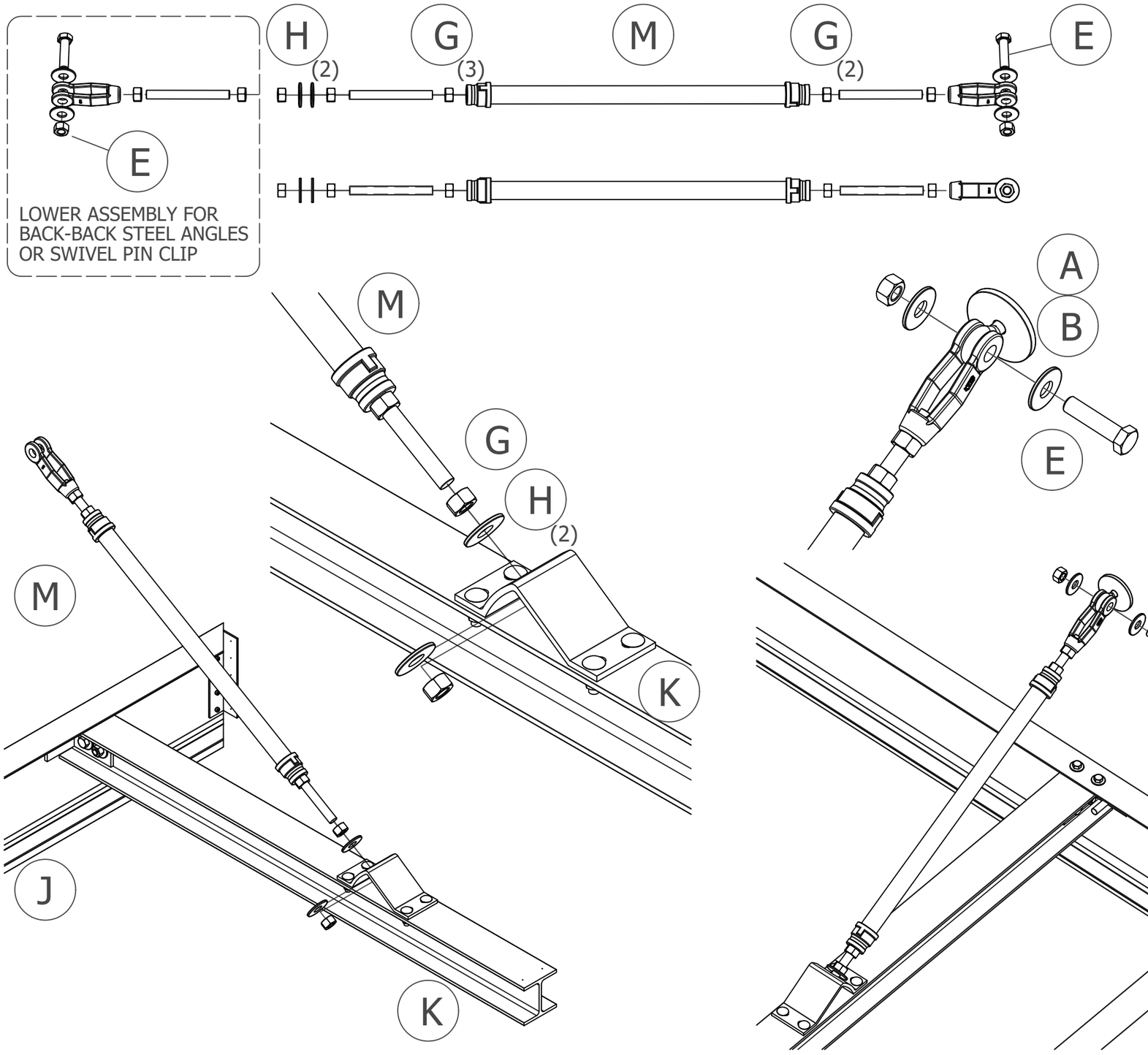
d. Hang fascia on wall bolts.

e. Fasten hanger tube mounting plate to wall bolts, sandwiching fascia between wall and mounting plate.

NOTE: For flat soffit type deck, Mapes hanger beam layout attempts to center beam between vertical ribs of deck assembly. When deck rib/snap cap occur under beam, there is minimal clearance.



SECTION 'FF':
Beam clearance over flat soffit deck



3. Assemble Back Fascia, Hanger Beams and Hanger Rods (CONTINUED)

e) Hanger pipe and related hardware are preassembled (M).

f) Attach the hanger rod (M) to the front clip on the I-beam (K), w/ (2) 5/8" flat washers (H), and (3) 5/8" nuts (G).

g) Attach hanger rods (M) to upper wall connection w/ 5/8" x 2 1/2" bolt assembly (E).

h) Alternate front connection: If required by engineering to meet local codes, and/or hanger rod rise angle is greater than 45° off horizontal, front clip is assembled from steel angles (next page).

i) Alternate front connection: When hanger rod upper and lower connections are not in line, a SWIVEL PIN front clip permits more "range of motion" (next page).

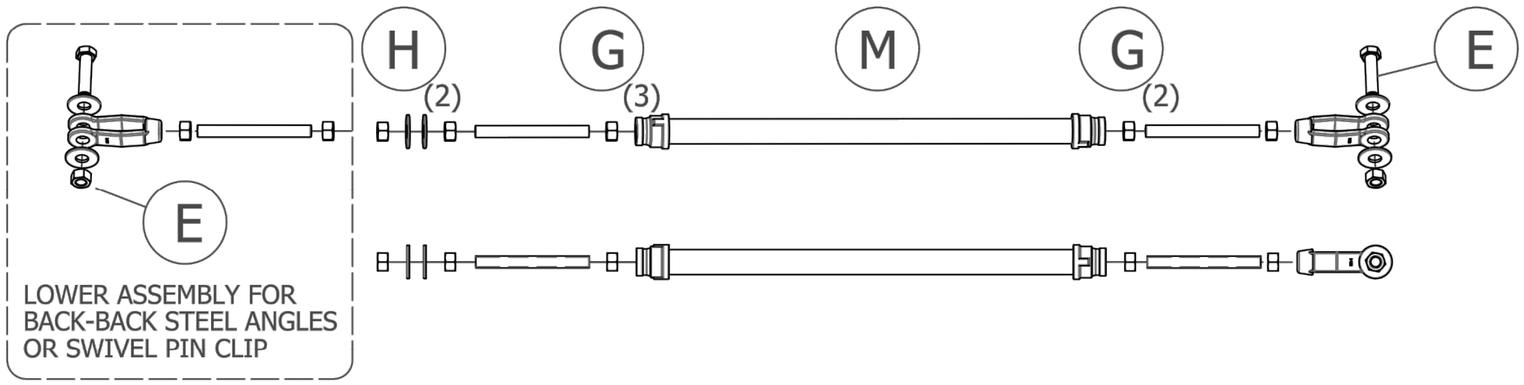
j) Alternative upper connection: When required, bent steel 'u' clip w/ $\frac{5}{8}$" x 3" bolt assembly (next page) instead of eyebolt.

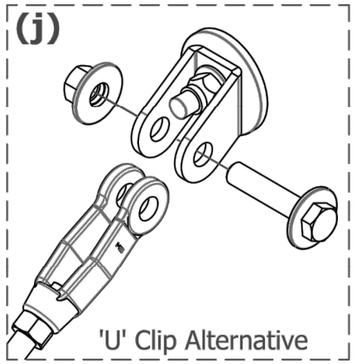
3. Hanger Rods (CONTINUED)

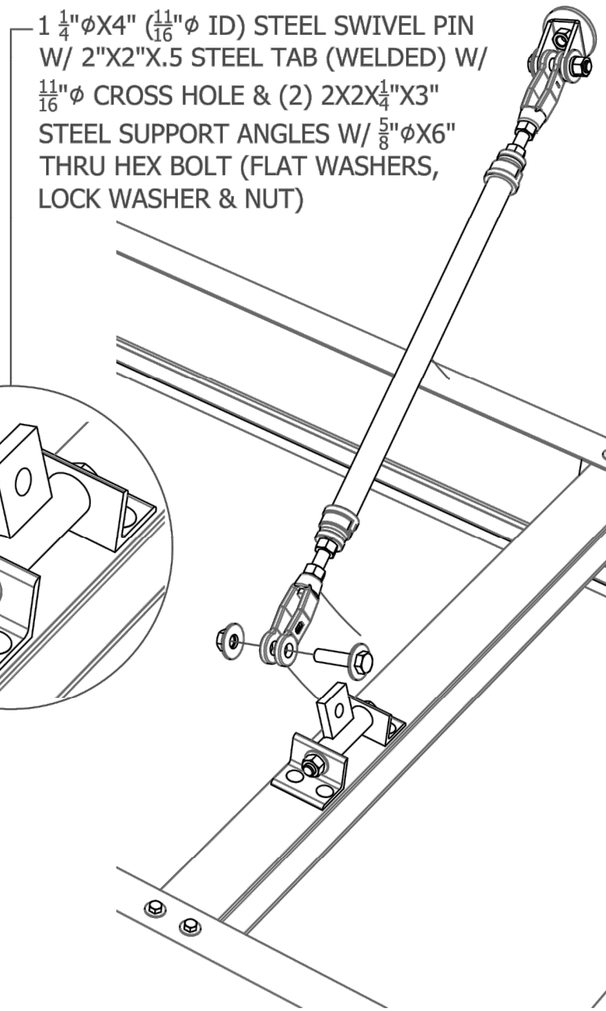
h) Alternate front connection: If required by engineering to meet local codes, and/or hanger rod rise angle is greater than 45° off horizontal, front clip is assembled from steel angles.

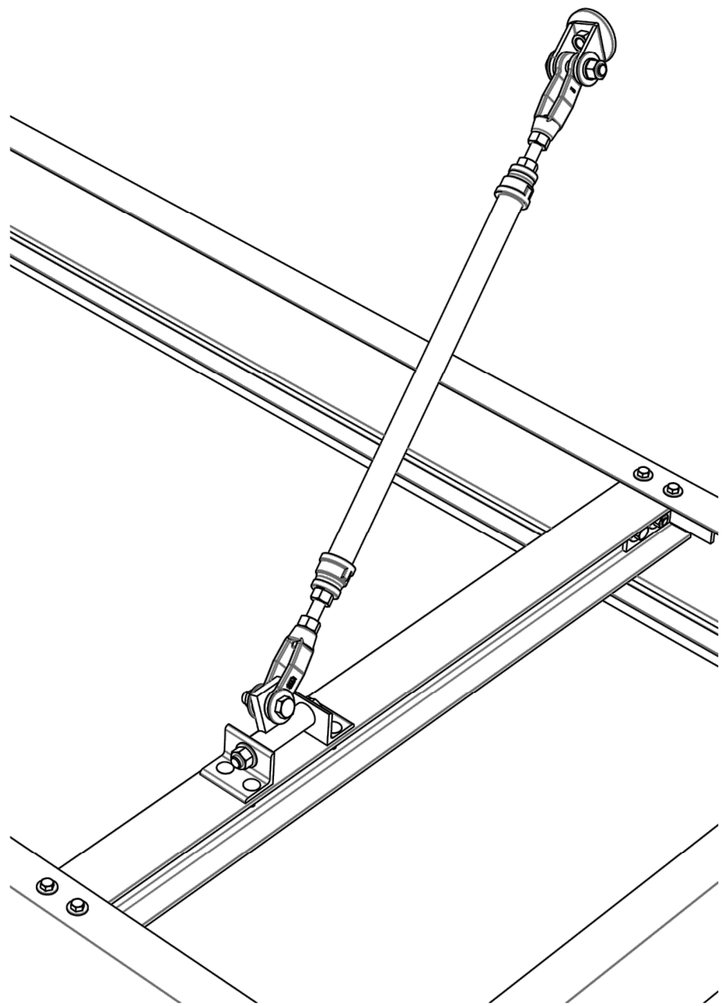
i) Alternate front connection: When hanger rod upper and lower connections are not in line, a SWIVEL PIN front clip permits more "range".

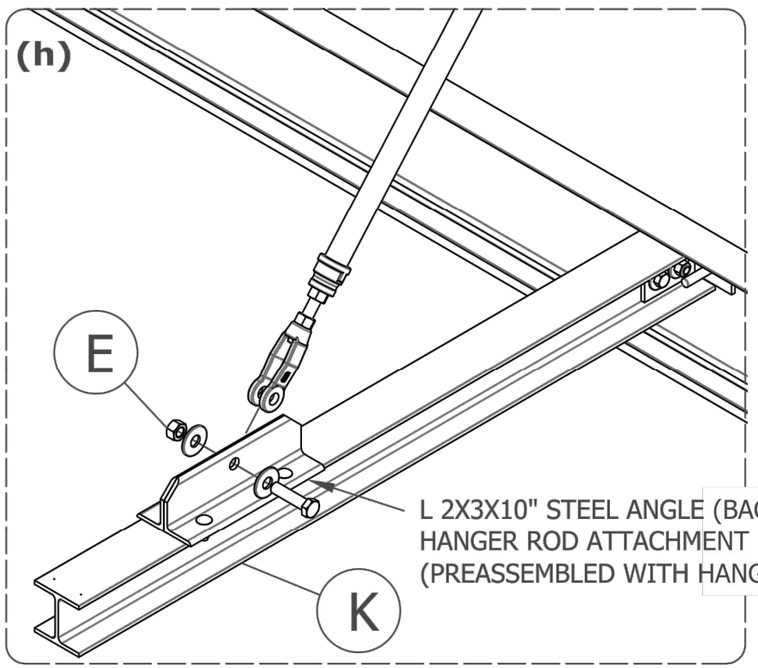
j) Alternative upper connection: When required, bent steel 'u' clip w/ $\frac{5}{8}$" x 3" bolt assembly instead of eyebolt.

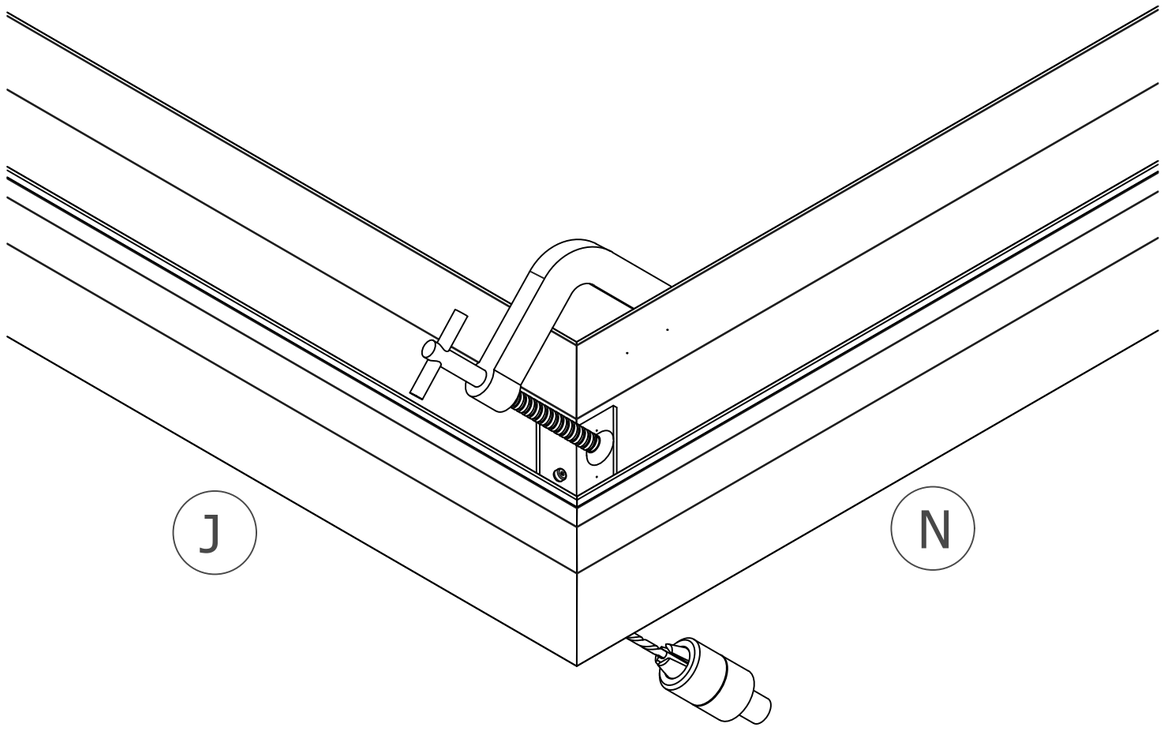


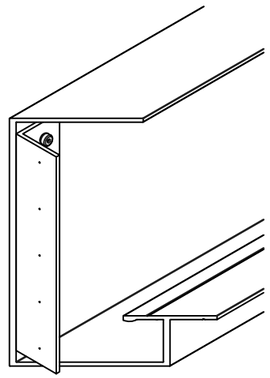








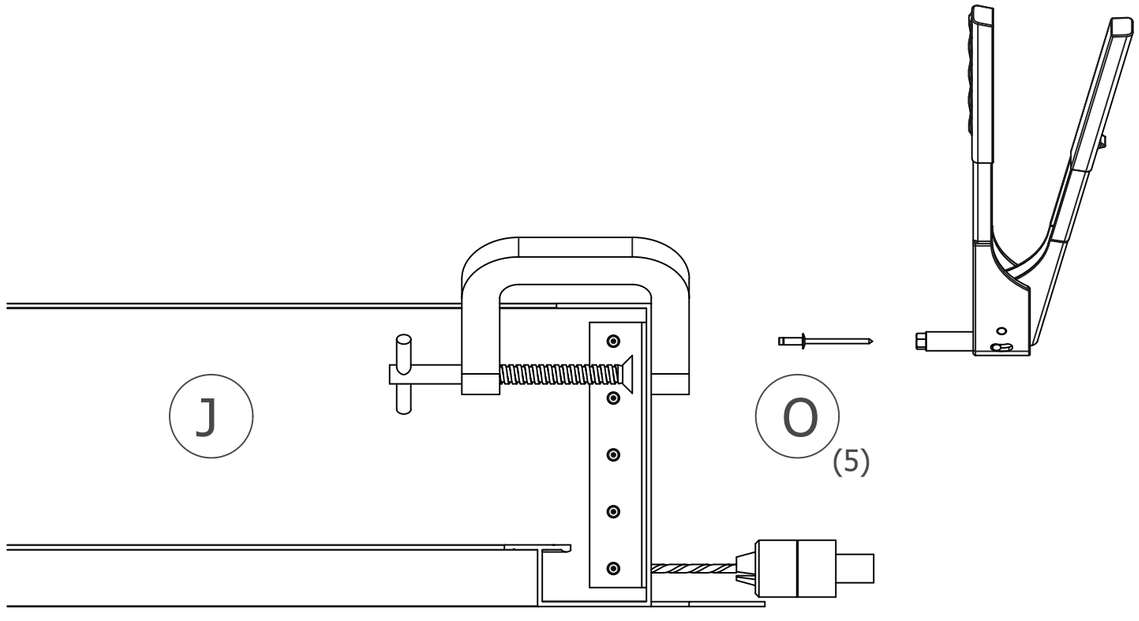


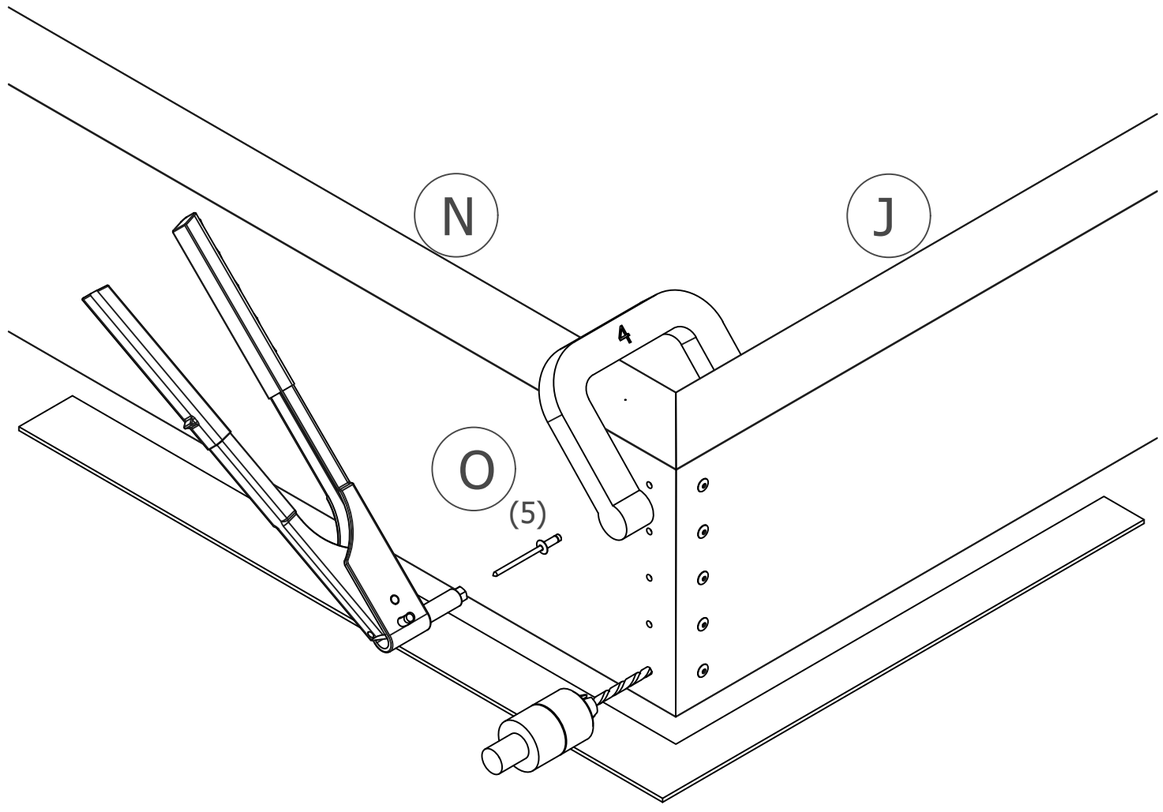


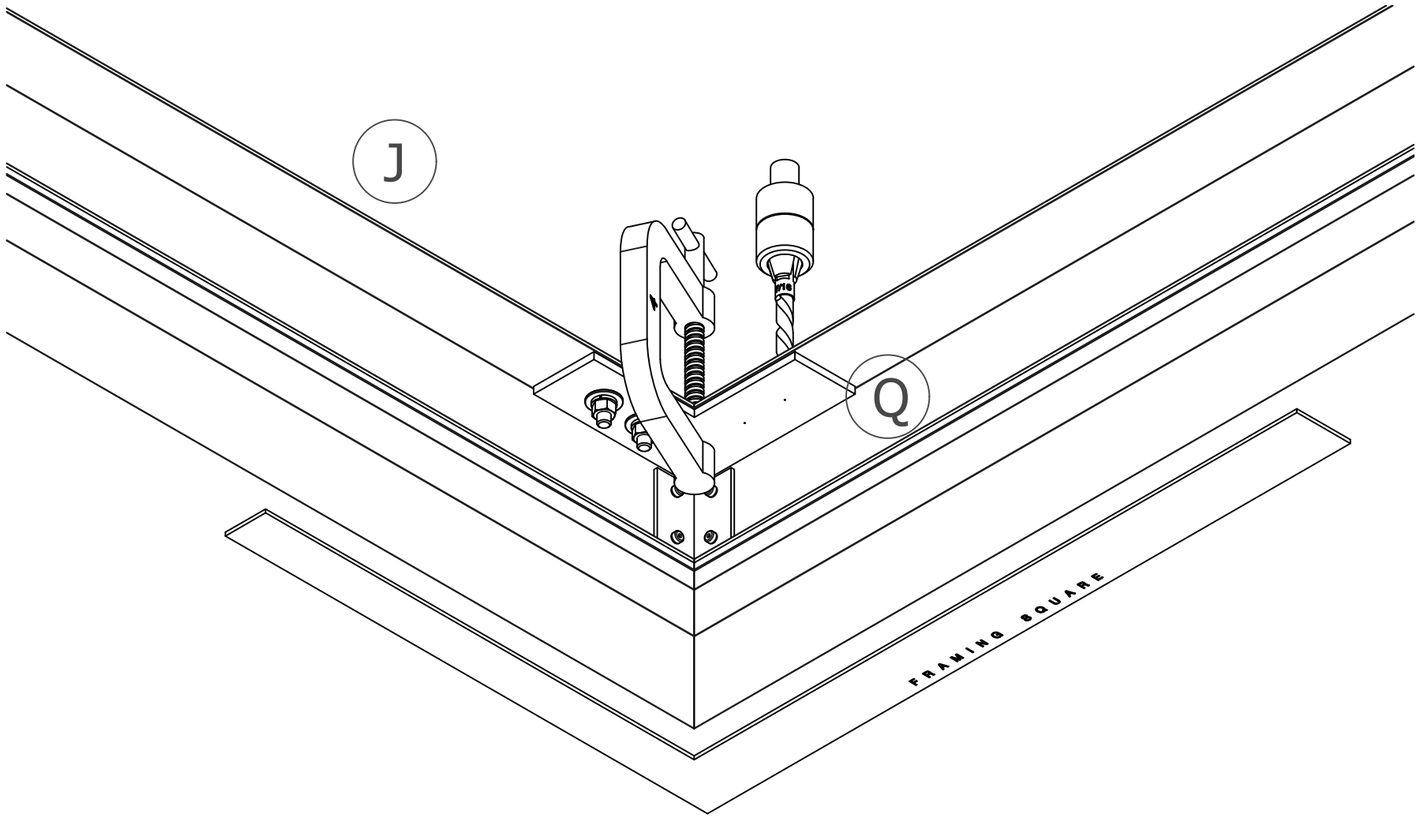
4. Assemble Fascia

a) 1 ½” x 1 ½” inside corner braces are already assembled to fascia on 1 side (J).

b) Clamp together side (N) and wall fascia (J) pieces to make corner. Drill through factory holes in side fascia into 1 ½” x 1 ½” angle and use (5) 3/16” self-sealing rivets (O).

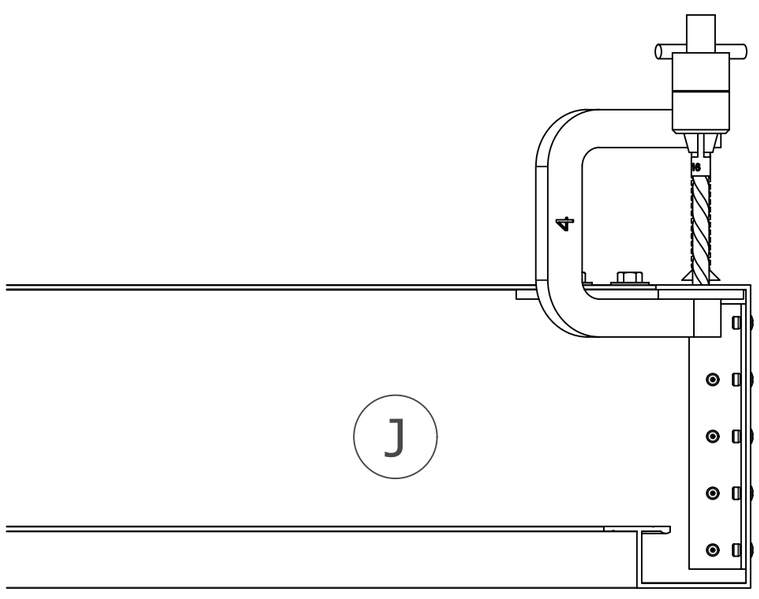


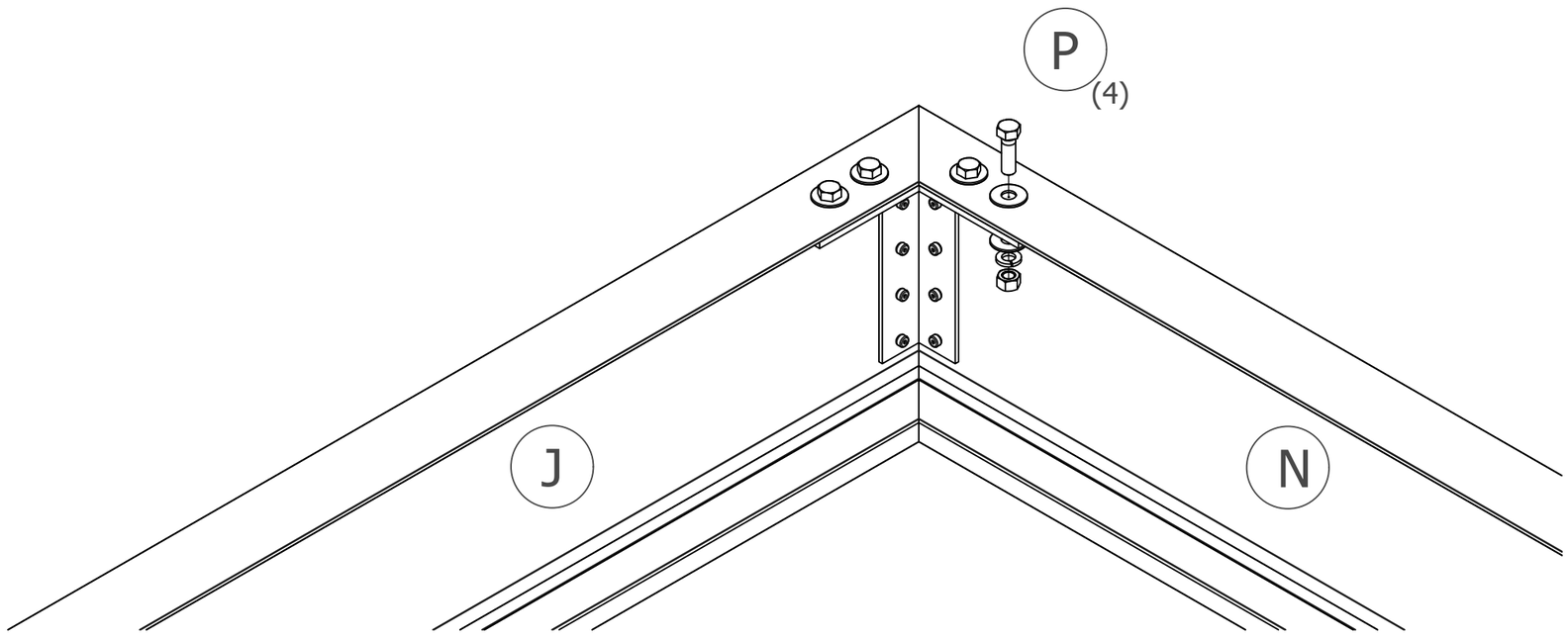




4. Assemble Fascia (CONTINUED)

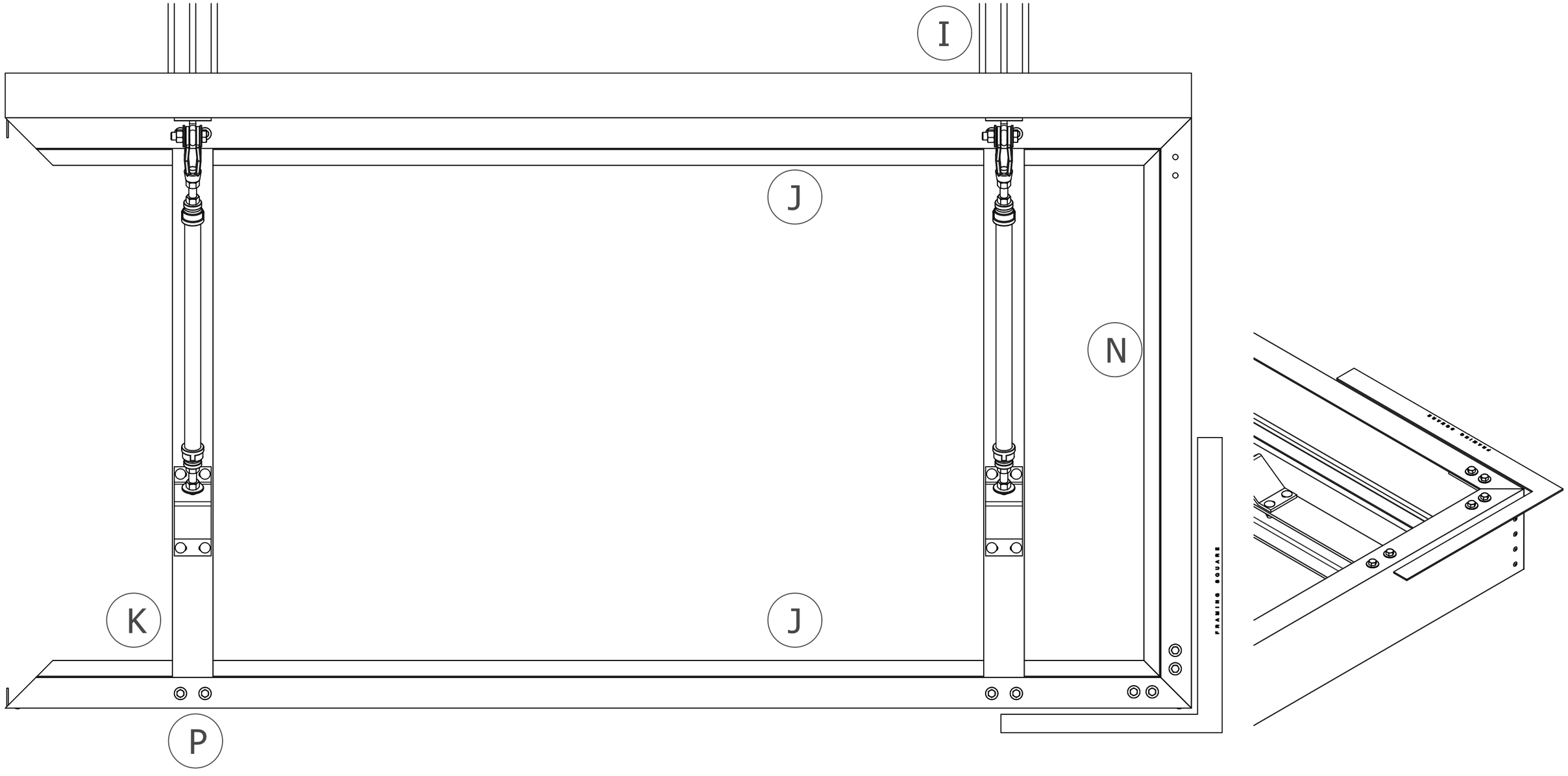
c. Clamp and drill 7/16" holes through fascia top lip and 6” x 6” corner plates (Q) and fasten corner plate underneath top lip of fascia (J)(N) using (4) 3/8” machine bolt assemblies (P) to complete corner.

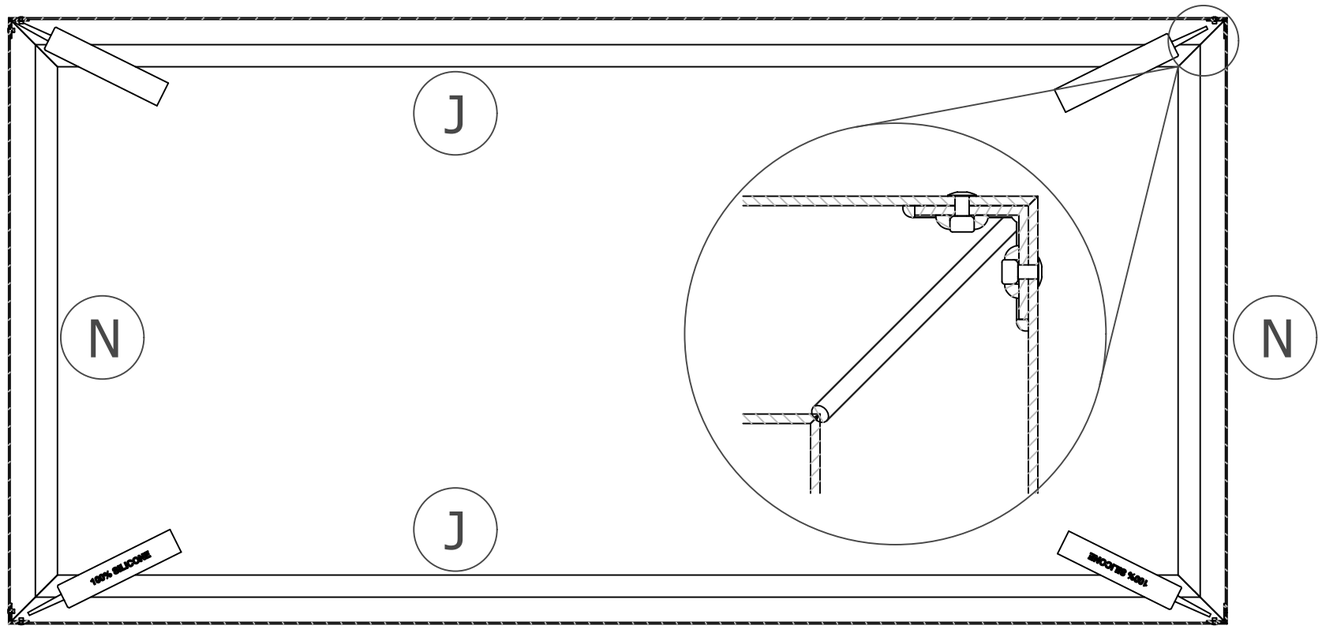




4. Assemble Fascia (CONTINUED)

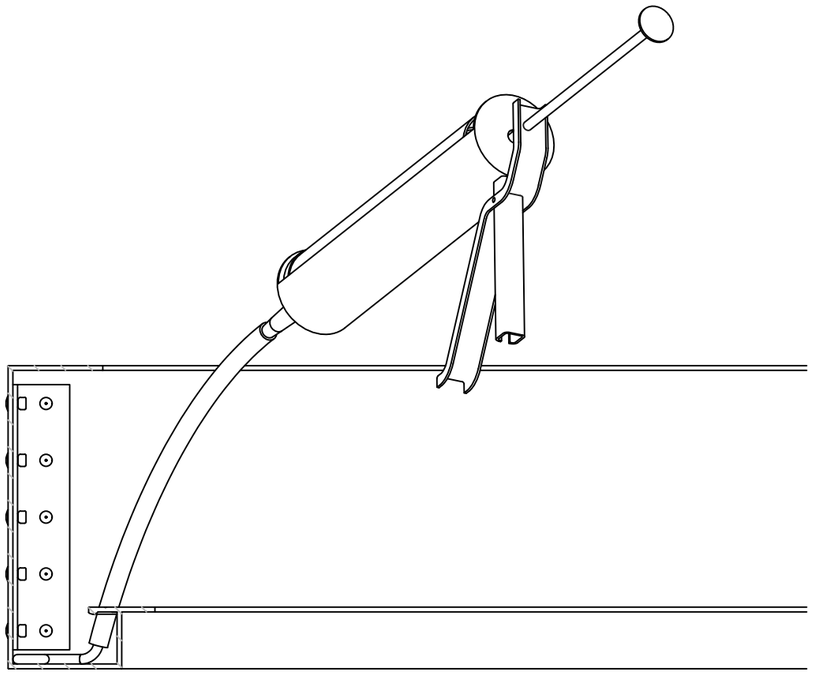
d) Attach front of fascia (J) onto I-beam (K) w/ 3/8" machine bolts (P), and lock into place (make sure its square).

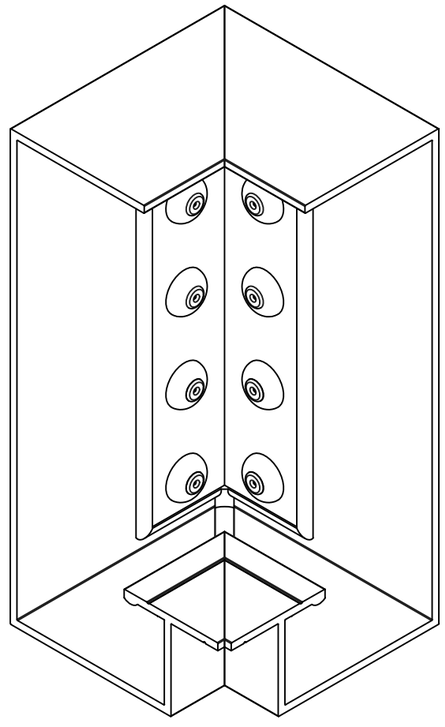


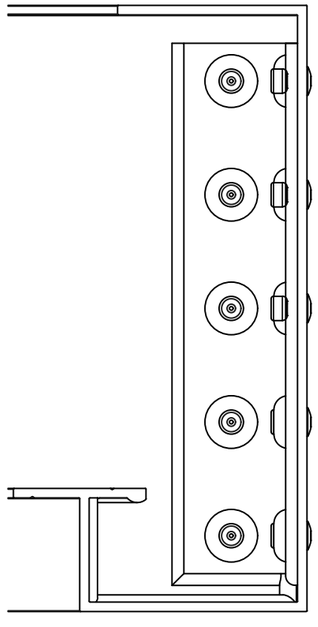


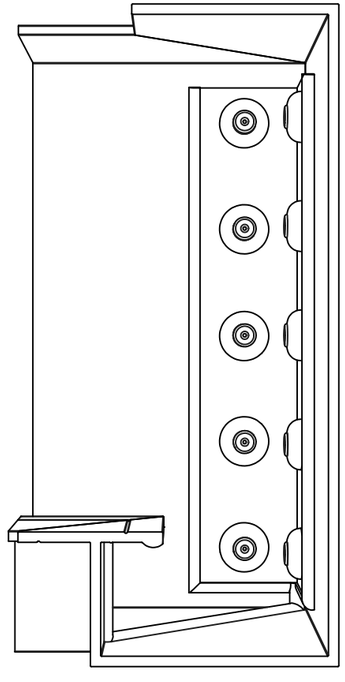
4. Assemble Fascia (CONTINUED)

e) Apply continuous sealant to either side of the corner angle, across bottom of trough at seam and back up to fascia inside lip. Use flexible hosing to direct silicone into tight corners. Seal all rivets.



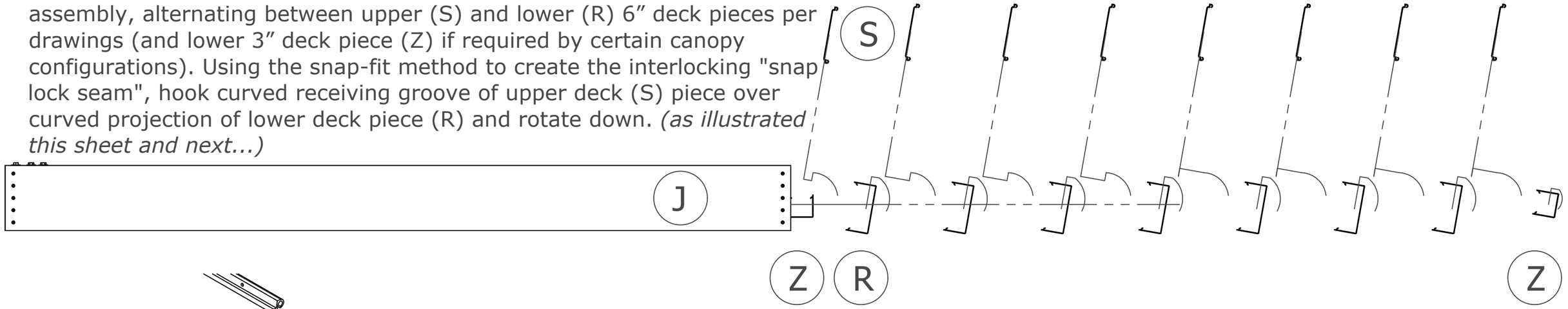


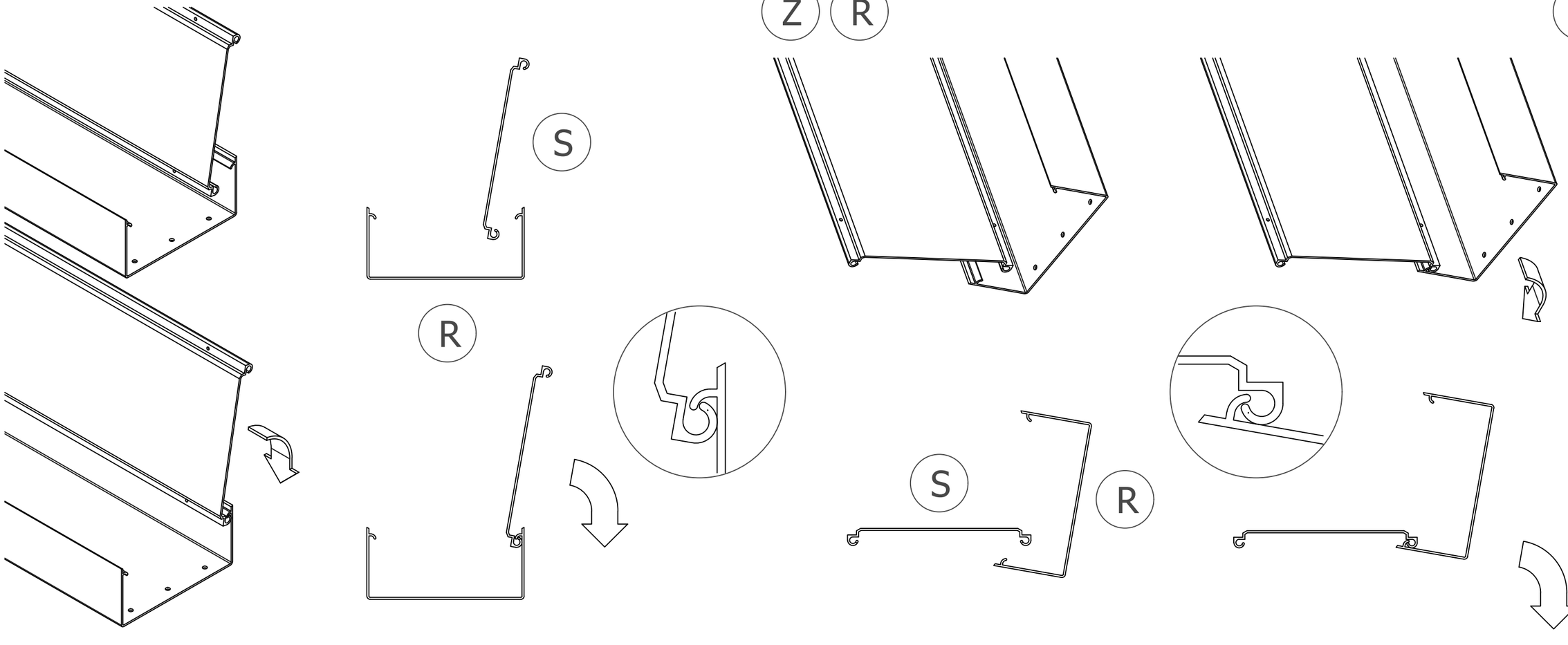


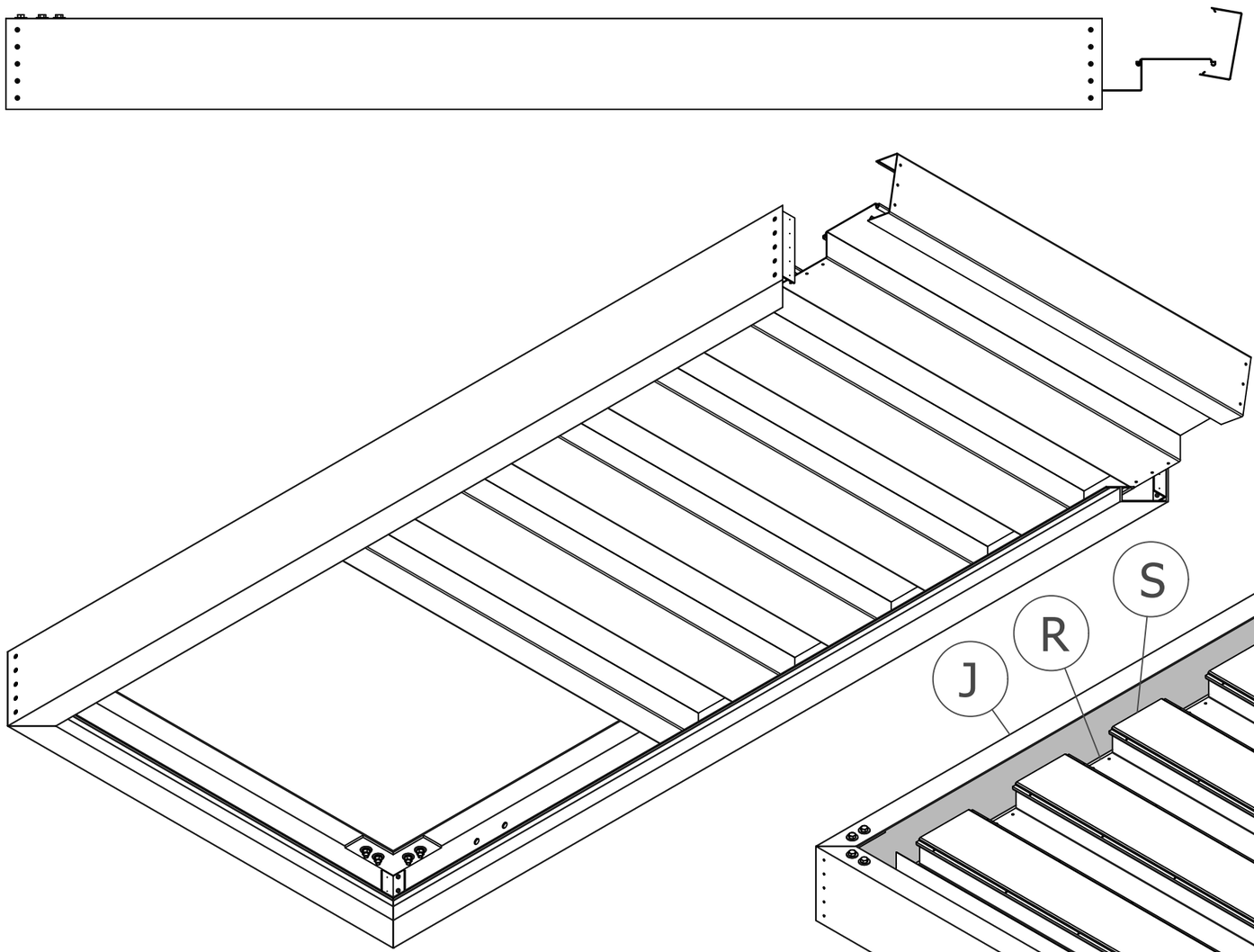


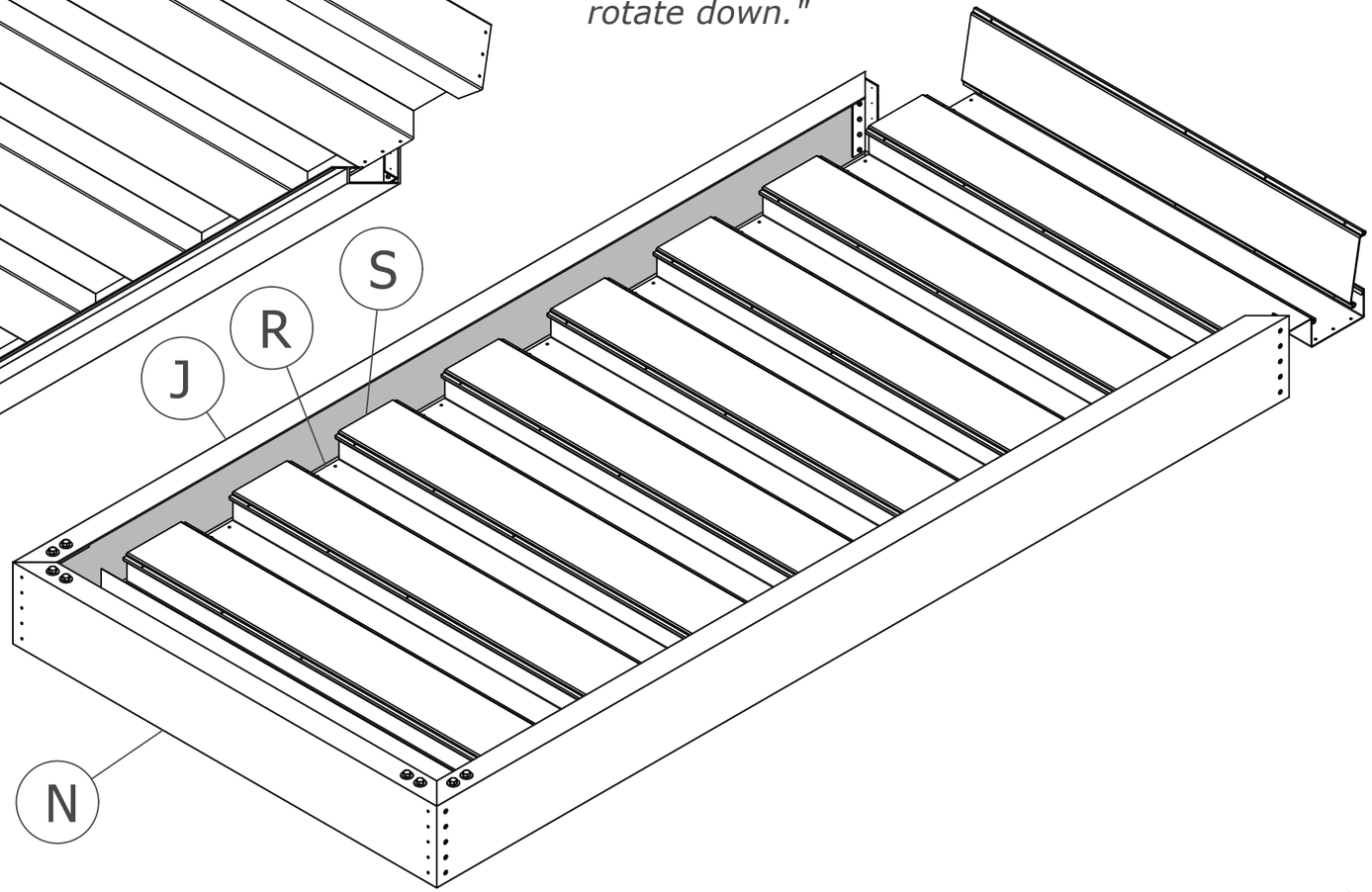
5. Fasten Decking to Fascia

a) Slide in all decking from the open end of fascia frame, incrementally, as each successive piece of interlocking deck is added to the assembly, alternating between upper (S) and lower (R) 6” deck pieces per drawings (and lower 3” deck piece (Z) if required by certain canopy configurations). Using the snap-fit method to create the interlocking "snap lock seam", hook curved receiving groove of upper deck (S) piece over curved projection of lower deck piece (R) and rotate down. *(as illustrated this sheet and next...)*



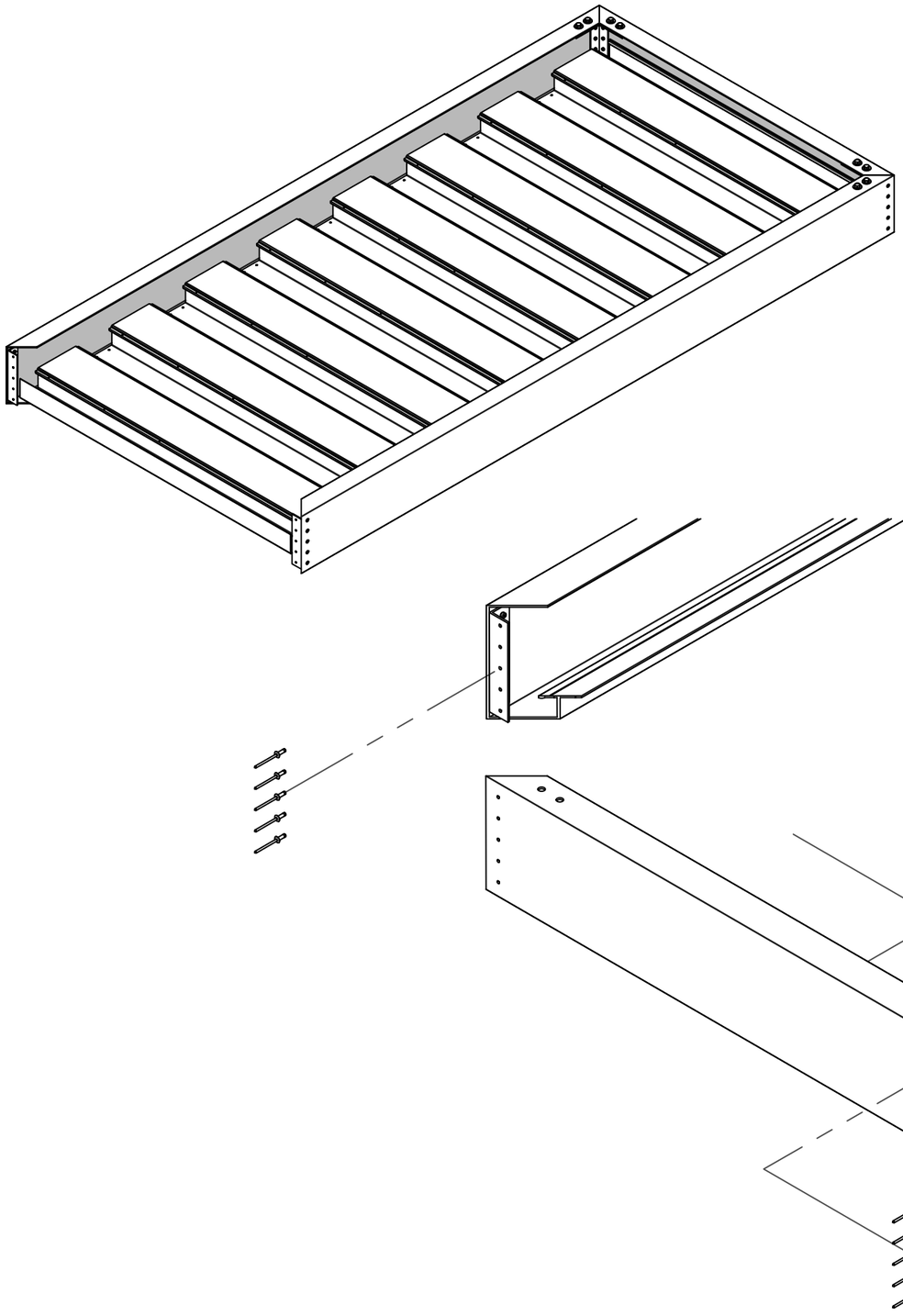






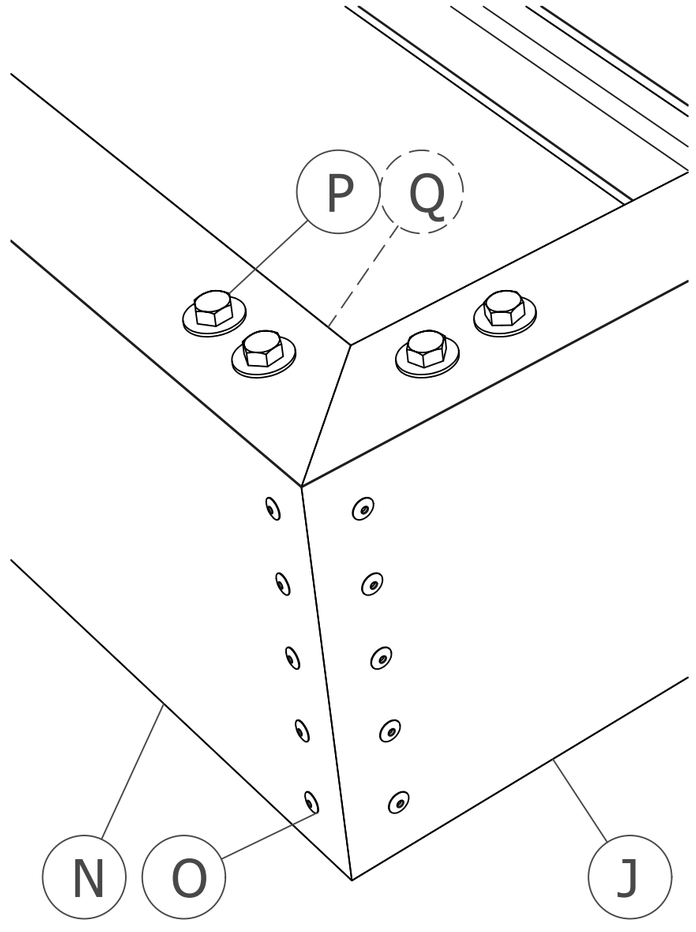
5. Fasten Decking to Fascia (continued)

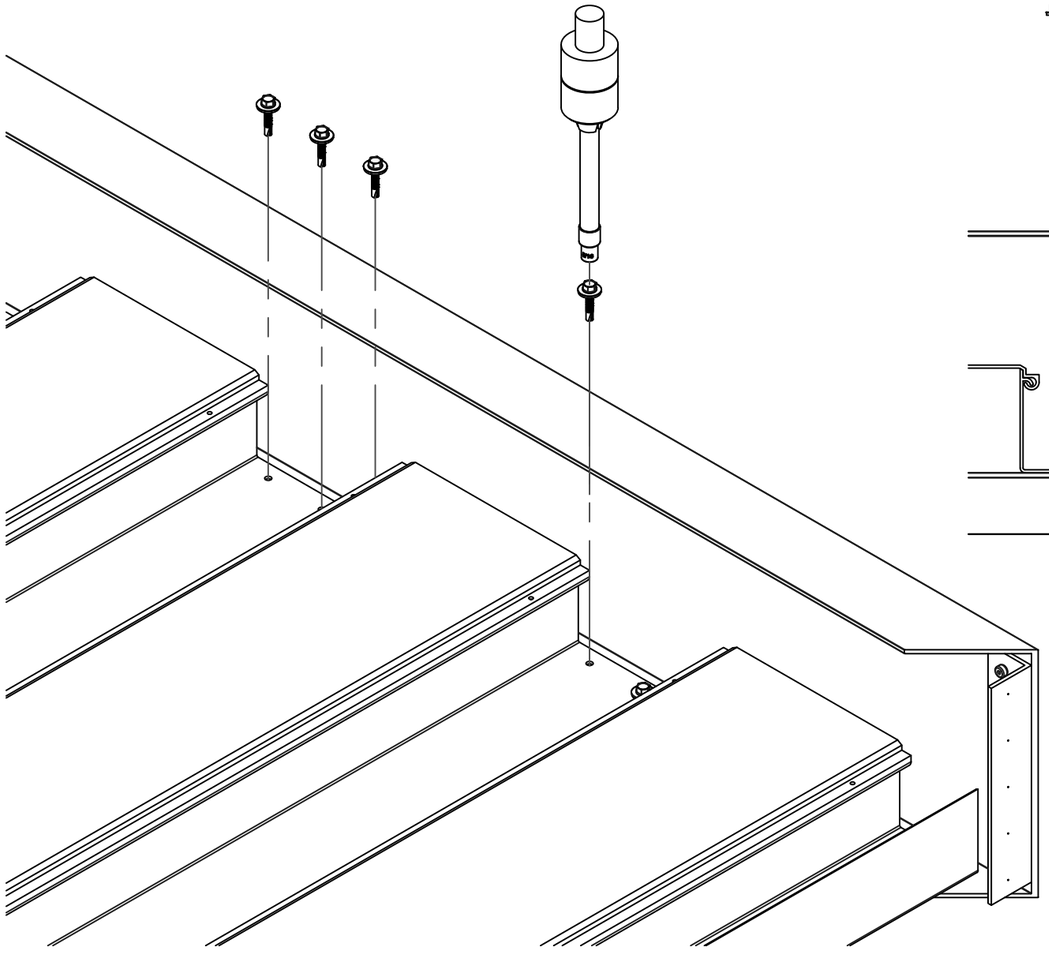
a) "Slide in all decking from the open end of fascia frame, incrementally, as each successive piece of interlocking deck is added to the assembly, alternating between upper (S) and lower (R) 6” deck pieces per drawings (and lower 3” deck piece (Z) if required by certain canopy configurations). Using the snap-fit method to create the interlocking "snap lock seam", hook curved receiving groove of upper deck (S) piece over curved projection of lower deck piece (R) and rotate down."

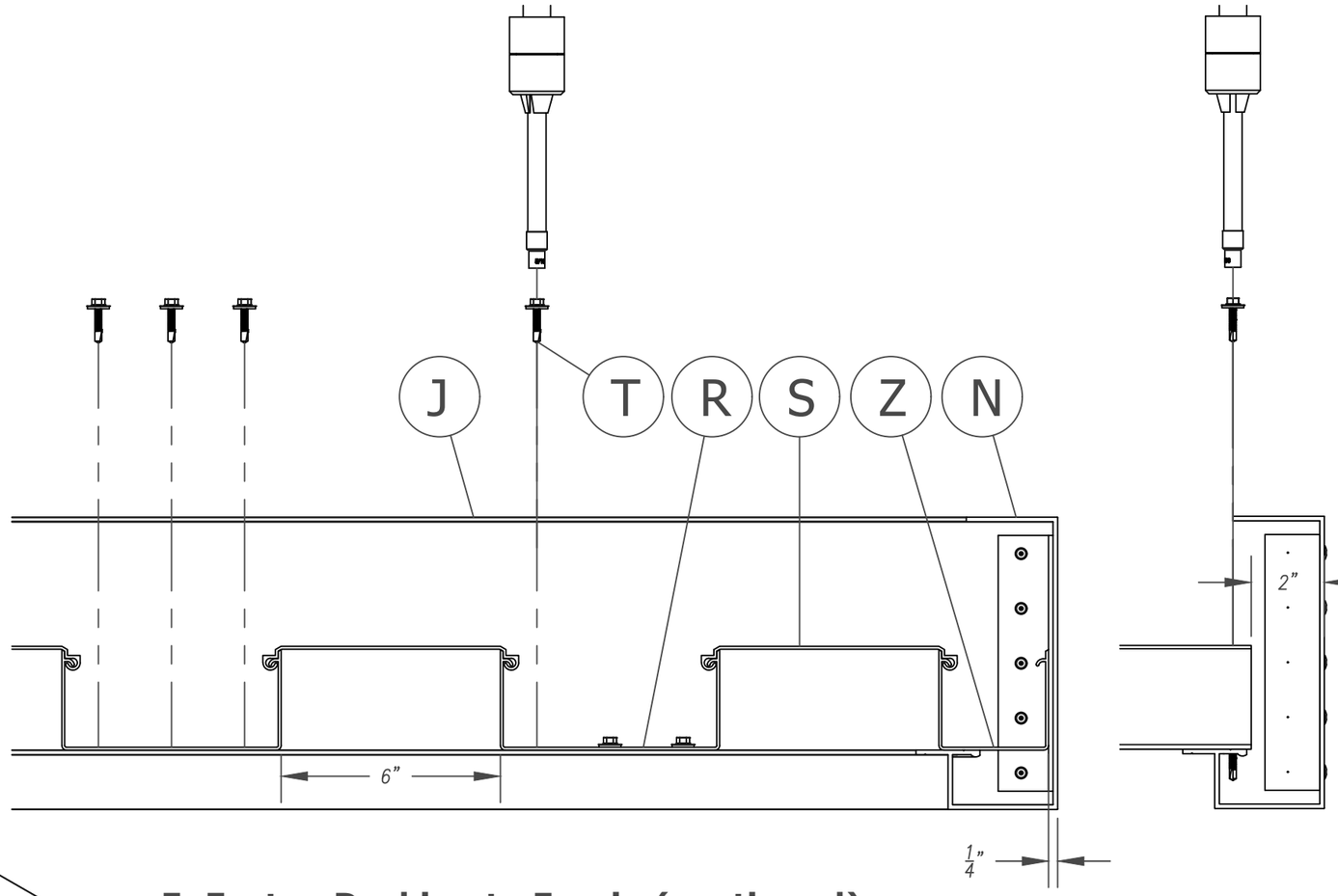


5. Fasten Decking to Fascia (continued):

b) Assemble (per #3c & d) last side fascia piece (N) to complete fascia frame. Seal corners per #3e.



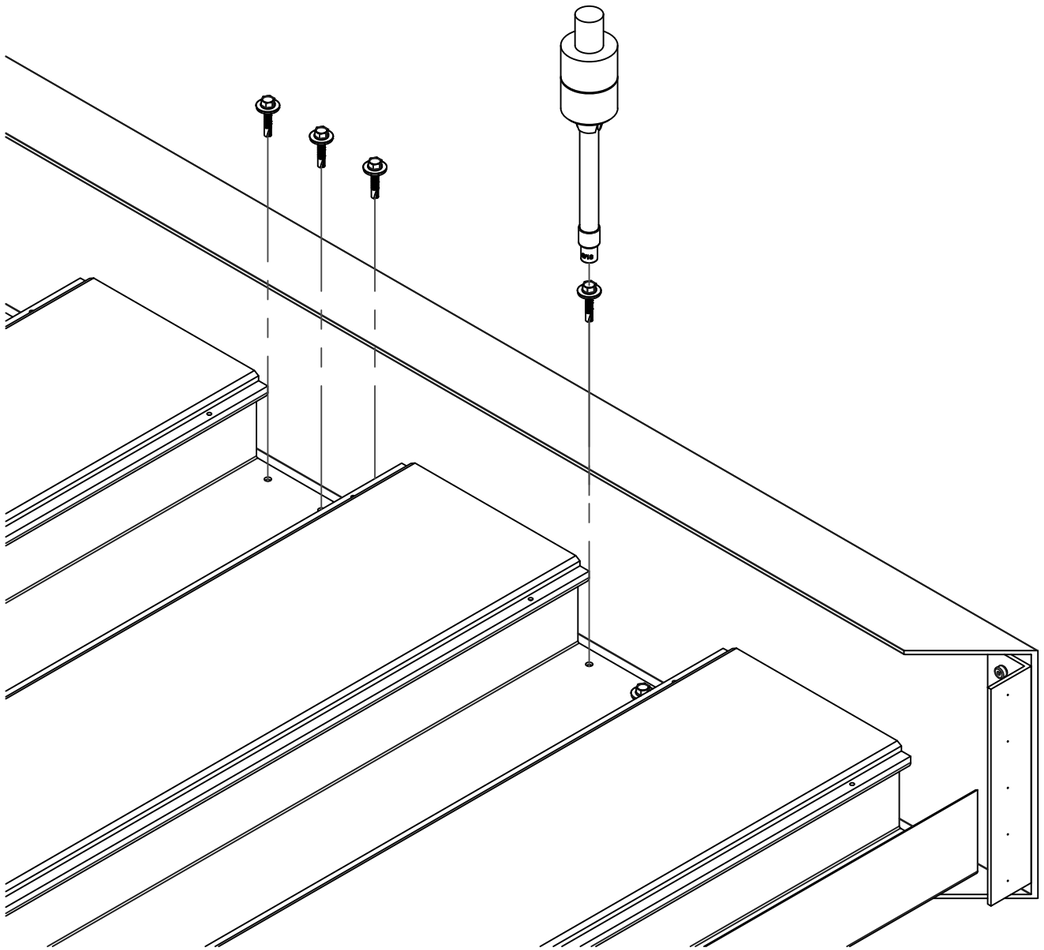




5. Fasten Decking to Fascia (continued):

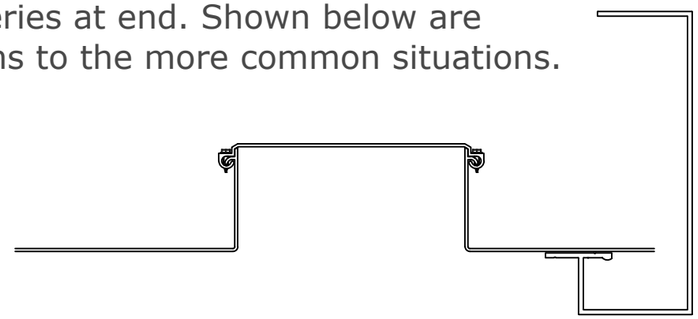
c) Maneuver decking (R,S,Z) to match spacing on blueprints. Make sure both ends of deck are equal distance from inside of front and rear fascia.

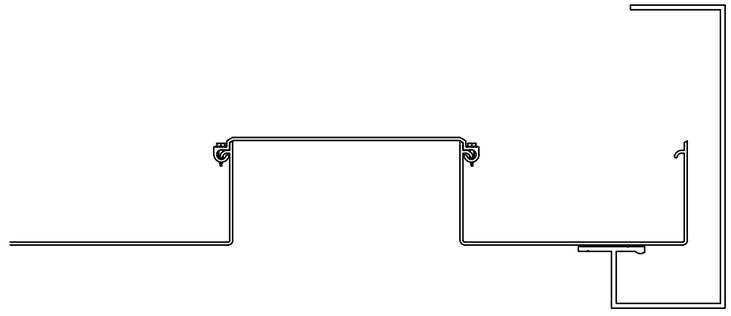
d) With #12-24 x 1 ¼” tek screws (T), screw lower deck pieces to fascia using pre-punched holes on lower decking (R). Fasten one end of deck assembly using correct spacing (per deck offset from end fascia (N) in drawings). Then go to other end of deck assembly and pull to correct spacing (6” between legs of lower deck pieces) and screw down that end. Then apply remaining #12's.

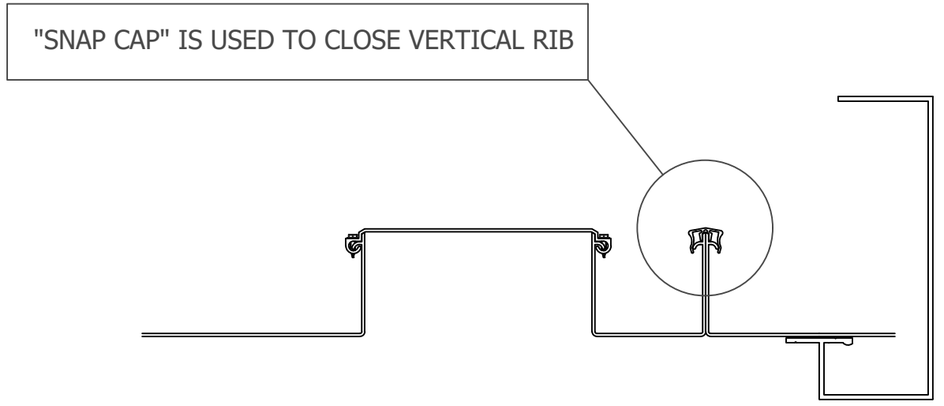


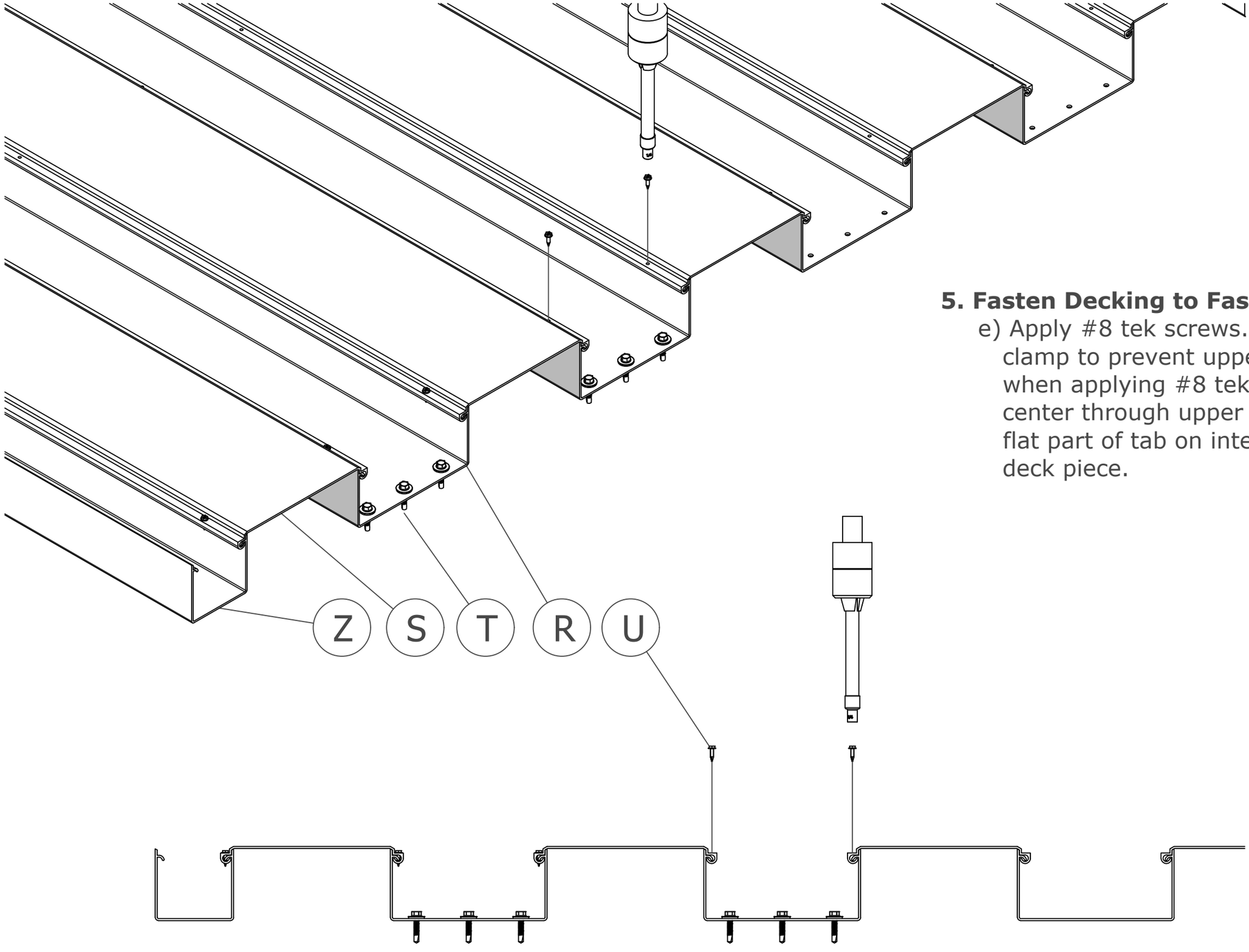
5. Fasten Decking to Fascia (continued):

* Deck assembly must end with a lower deck member. In some cases, the canopy width may require alternative deck series at end. Shown below are solutions to the more common situations.



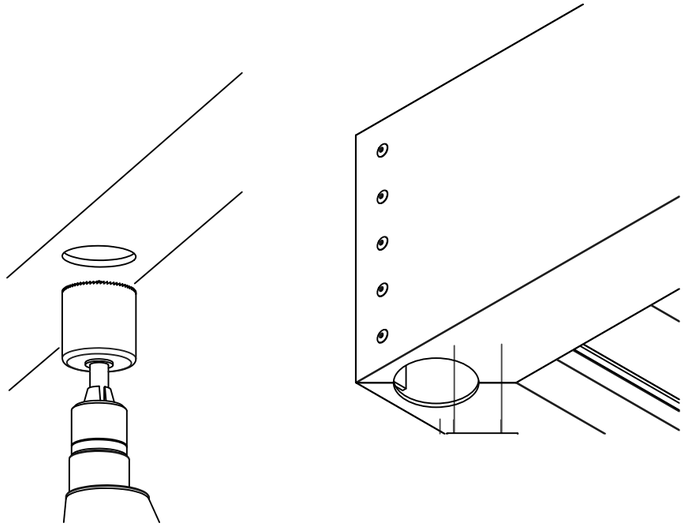


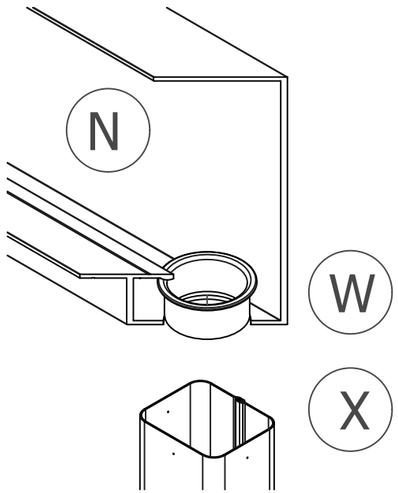


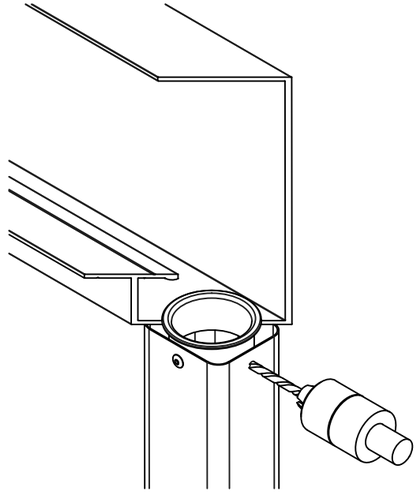


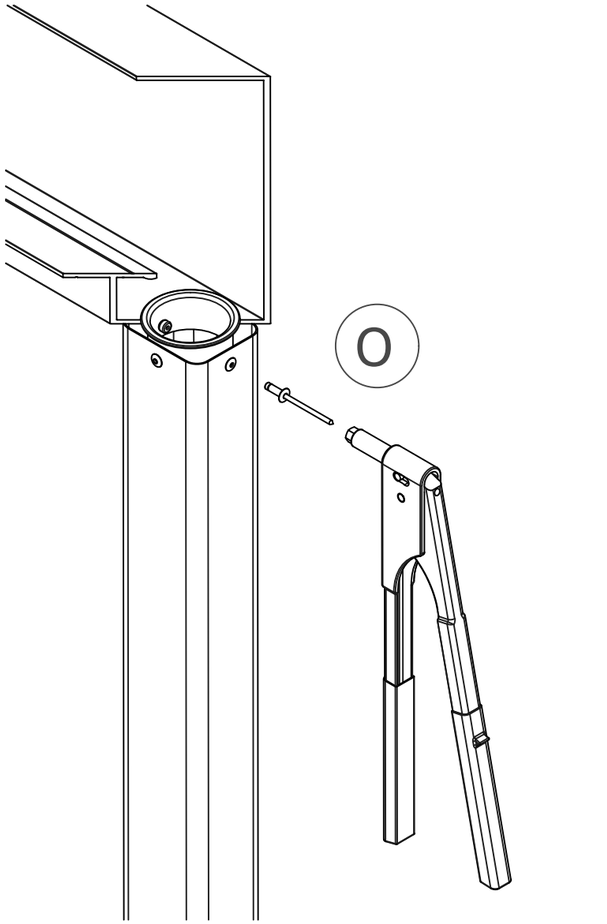
5. Fasten Decking to Fascia (continued):

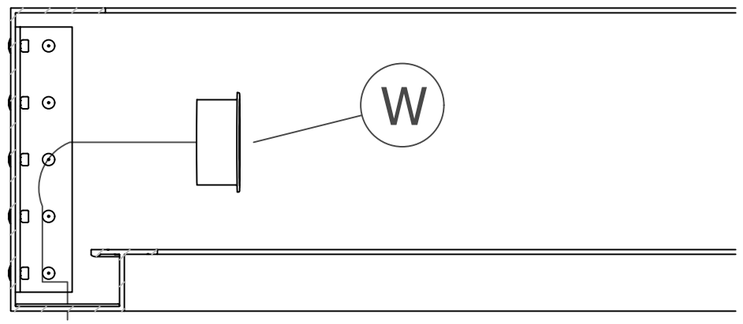
e) Apply #8 tek screws. Use block or clamp to prevent upper deck movement when applying #8 tek screws at 9” on center through upper deck groove into flat part of tab on interior side of lower deck piece.

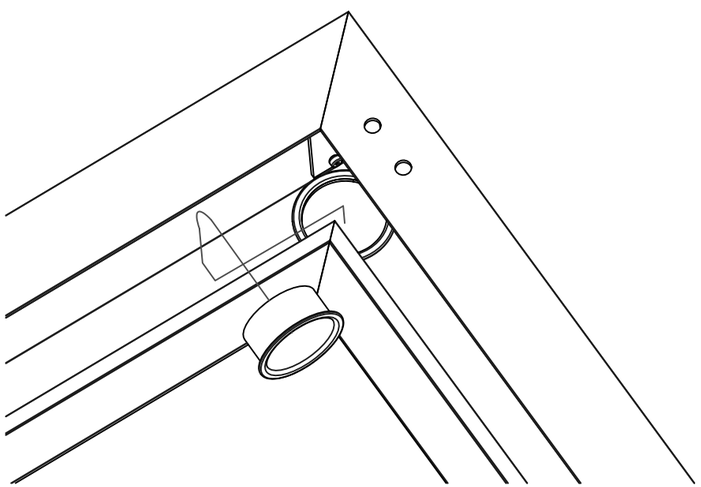












6. Drill Proper Drainage Holes in Fascia, Fascia Extension Assembly (If Applicable)

DRAIN STUB: a) Drill 2 $\frac{5}{16}$" hole in fascia trough at desired drain location and install 2 $\frac{1}{4}$" pressed aluminum drain stub**.**

*** Mapes recommends at least one (1) drain location for each 175 SF of canopy and each 15' of fascia (gutter) distance.**

DOWNSPOUT: b) If using downspout, drill 2 5/16” hole in fascia trough for drain stub (*as above)*(W), and attach downspout (X) with downspout elbows and tie-backs using 3/16” self-sealing rivets (O). Modifications of drain stub may apply in some instances.

7. Flash and Seal; Adjust Fascia Pitch to Drain

a) Flashing (Y) provided by Mapes. *(Flashing is sent long; notch for length and fascia lip in field)*

b) Counter flashing and sealant by installer.

c) Adjust canopy to drain desired direction, by one (or both) of the following methods: 1) turn the adjusting nuts (G) on the hanger adjustment rods (M), or 2) shim behind rear fascia (J).