12 Gauge Transition and Duct Assembly

1. Assemble TR-4012 duct by standing one side panel and the top panel on end in an “L” shape. Line up holes and screw together. Stand other side panel on end, line up holes with the edge of bottom panel and fasten as before. Next, line up top assembly and bottom assembly and fasten together. Secure splices in “U” shape as shown.
2. Assemble TR-4011 transition in similar manner as duct, but do not attach top panel.
3. Field cut hole in faceplate to dimensions of the inside of the fan discharge. Drill holes to match bolting pattern of fan discharge.
4. Fasten transition to duct, slipping transition discharge over splices and screwing first the sides and then the bottom.
5. Insert faceplate and screw into the bottom and sides.
6. Place fan in position to be bolted to faceplate. Be sure fan and transition are level and fit flush. If not, shim until fan discharge is flush with faceplate. When flush fit is assured, bolt fan to faceplate with bin bolts (not provided with transition assembly).
7. Place transition top panel in place and secure to sides and faceplate. Fasten to duct.
8. When completed, the fan, transition and duct should be one unit.

Inventory Parts (TR-4013)

Part #	Description	Qty
PNEG-048	Instructions	1
TR-4017	Hardware Package	1
CH-6873	Silicone Sealant	2

Transition Assembly (TR-4011)

Part #	Description	Qty
TR-4007	Transition Top Panel	1
TR-4008	Transition Bottom Panel	1
TR-4009	Transition Side Panels	2
TR-4010	Transition Faceplate	1

Duct Assembly (TR-4012)

Part #	Description	Qty
TR-4004	Duct Top and Bottom Panel	2
TR-4005	Duct Side Panel	2
TR-4006	Duct Splice	2
TR-4016	Corrugated 14 Gauge Supports	3

Seal all joints to ensure no air leaks or water accumulation.

PNEG-048

12 Gauge Transition and Duct Assembly (Continued)

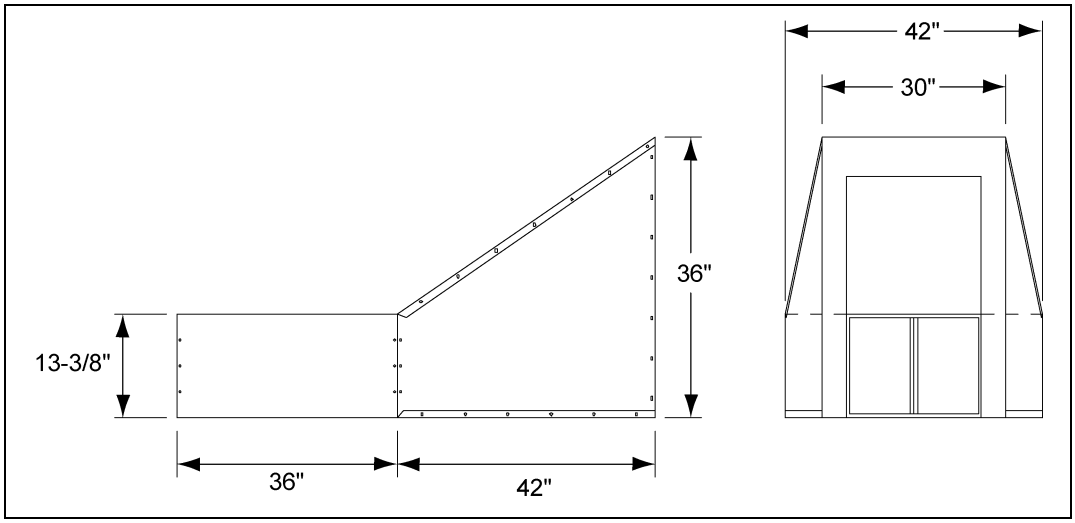
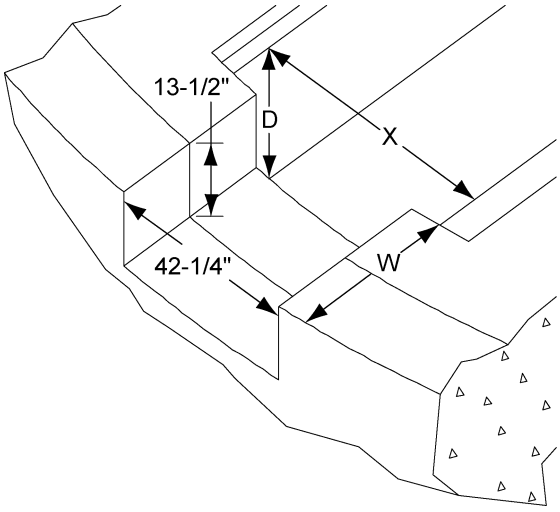


Figure 1



Stemwall Transition Entrance

Block out detail for when not available at foundation pouring.

"W" dimension to be determined by the desired extension of duct beyond foundation.

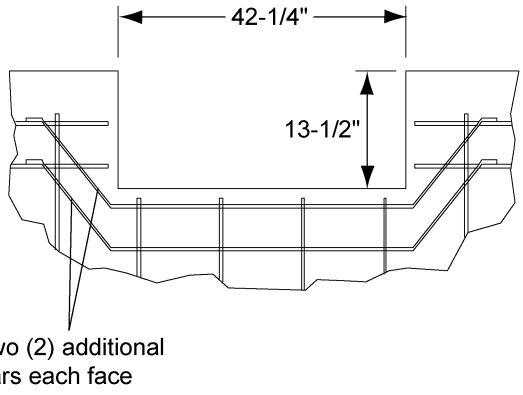
"D" is determined by the type of aeration flooring and supports.

"X" is determined by the inner dimension of aeration tunnel.

Duct should be anchored and sealed securely to prevent air escape and water entry (material not supplied).

Figure 2

Concrete for standard stemwall transition entrance
inverted "T" foundation only. *



Up to 42' diameter/24 ring NCL-2-#4 bars each face. *
Up to 78' diameter/24 ring NCL-2-#5 bars each face.
Up to 90' diameter/24 ring NCL-2-#6 bars each face.
Up to 105' diameter/23 ring NCL-2-#6 bars each face.

* For cases not mentioned consult GSI engineering.

Figure 3

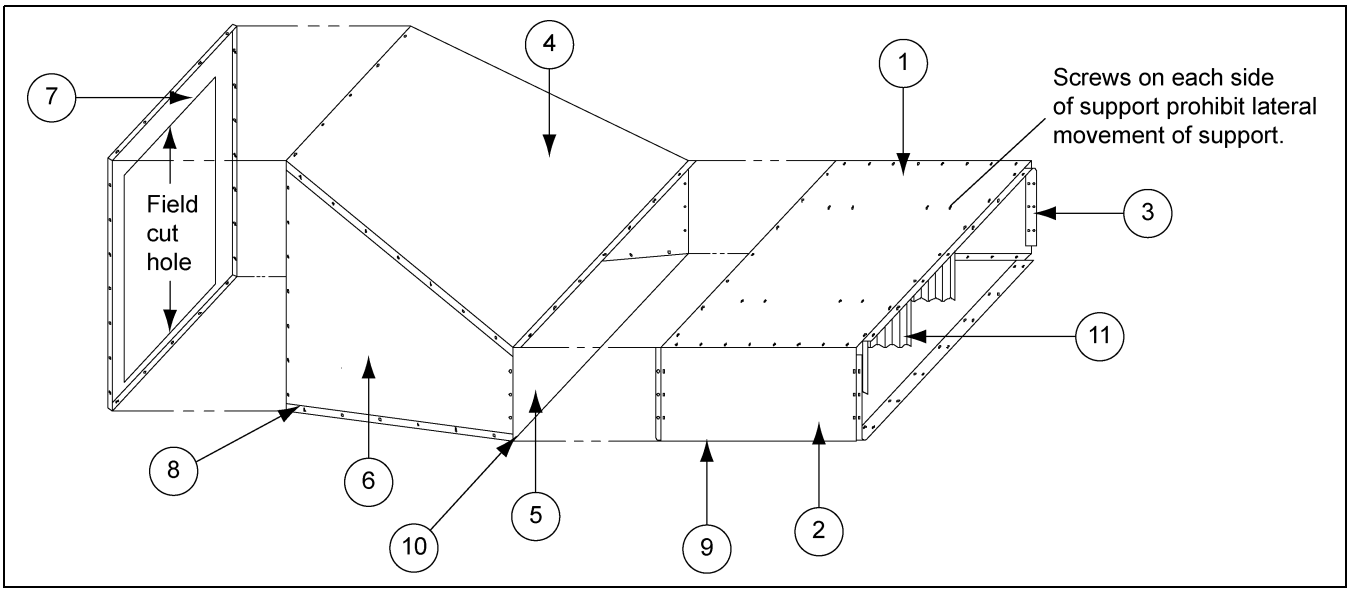


Figure 4

Ref #	Part #	Description	Qty
1	TR-4004	Duct Top and Bottom Panel	2
2	TR-4005	Duct Side Panel	2
3	TR-4006	“L” Shaped Splice	2 per TR-4012
4	TR-4007	Transition Top Panel	1
5	TR-4008	Transition Bottom Panel	1
6	TR-4009	Transition Side Panel	2
7	TR-4010	Transition Faceplate	1
8	TR-4011	Transition Assembly	1
9	TR-4012	Duct Assembly	1
10	TR-4013	Transition and Duct Assembly	1
11	TR-4016	Corrugated 14 Gauge Supports	3

* Stiffener support post used only when stiffener intersects with aeration tunnel.

Installs inside TR-4012 duct assembly.

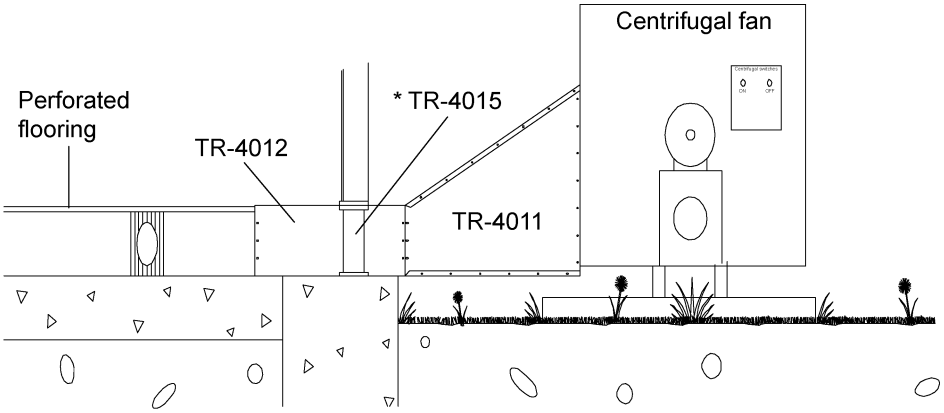


Figure 5 *Typical Installation*

Transition Entrance Duct Cross Sections

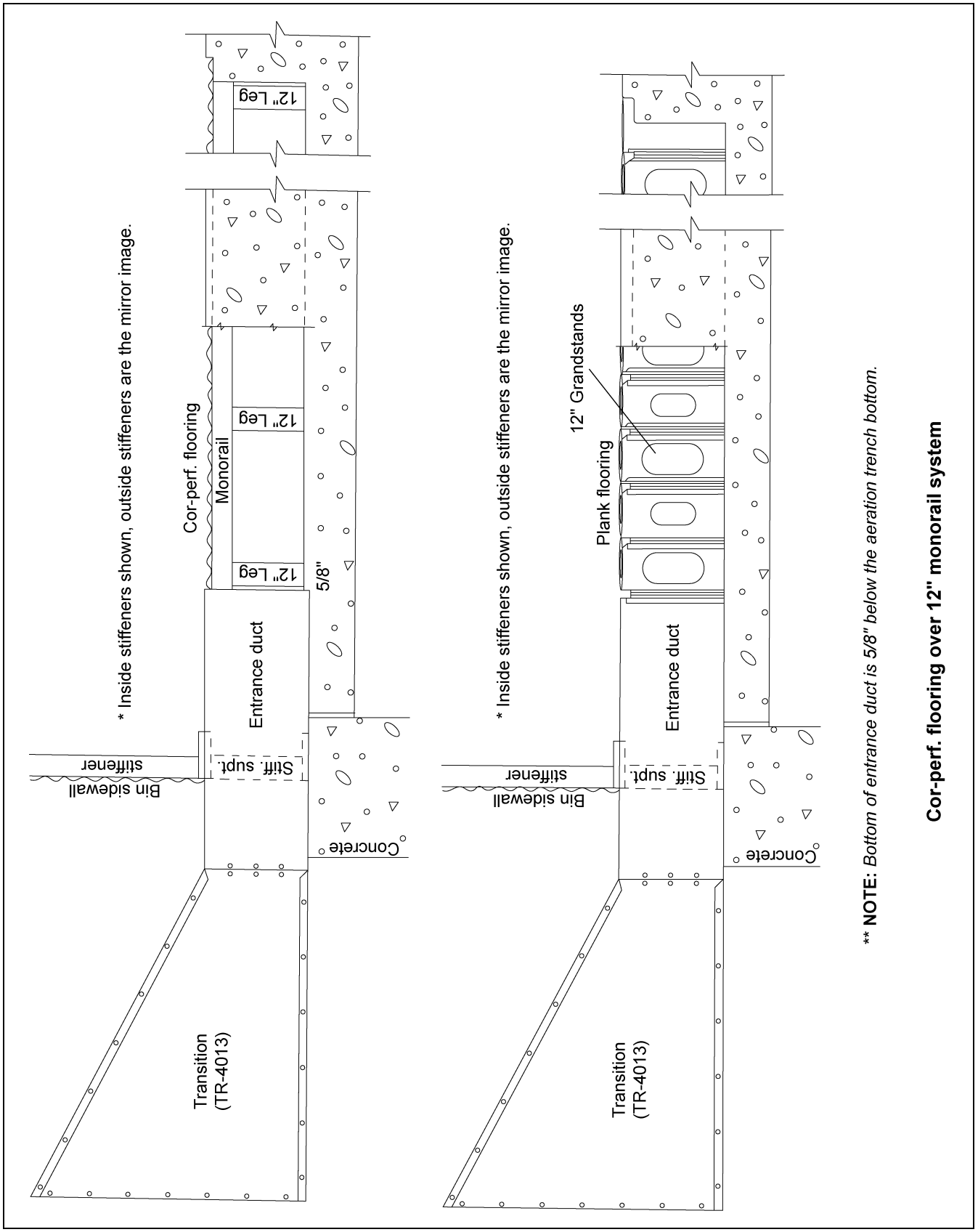


Figure 6

Post Support Installation (TR-7140)

1. Install the TR-7140 post support as shown in the following instructions.

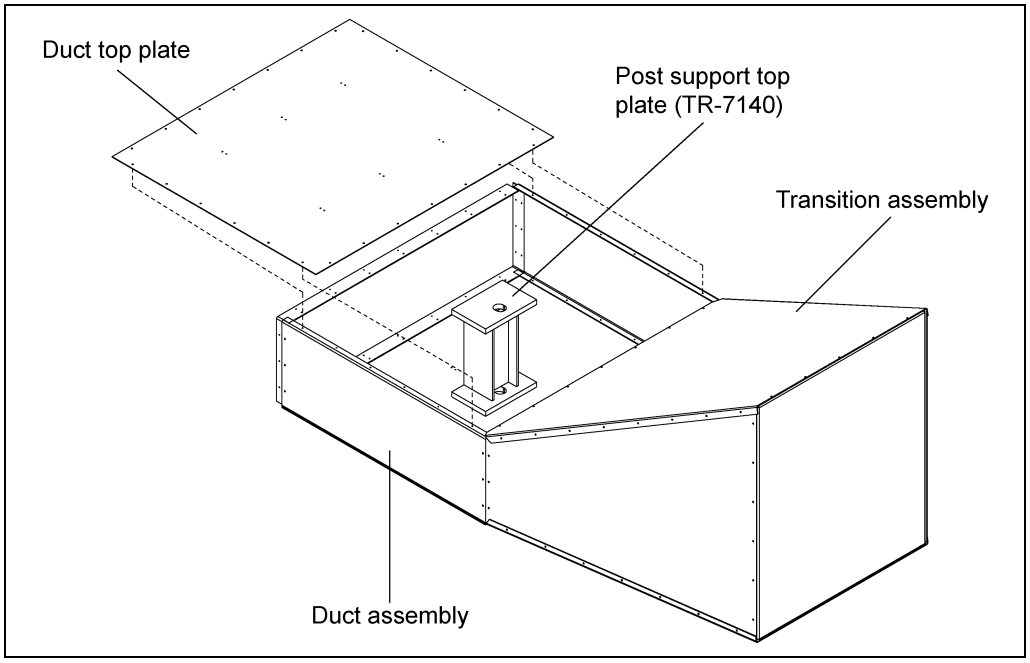


Figure 7

2. Temporarily install the base stiffener and align the slots in the top plate of the post support with the slots in the base plate on the base stiffener. Mark the duct top/bottom plates as shown in section A-A *(See Figure 8)* and pre-drill for anchor bolt. (Base stiffener cannot be installed until TR-7140 installation is complete.)

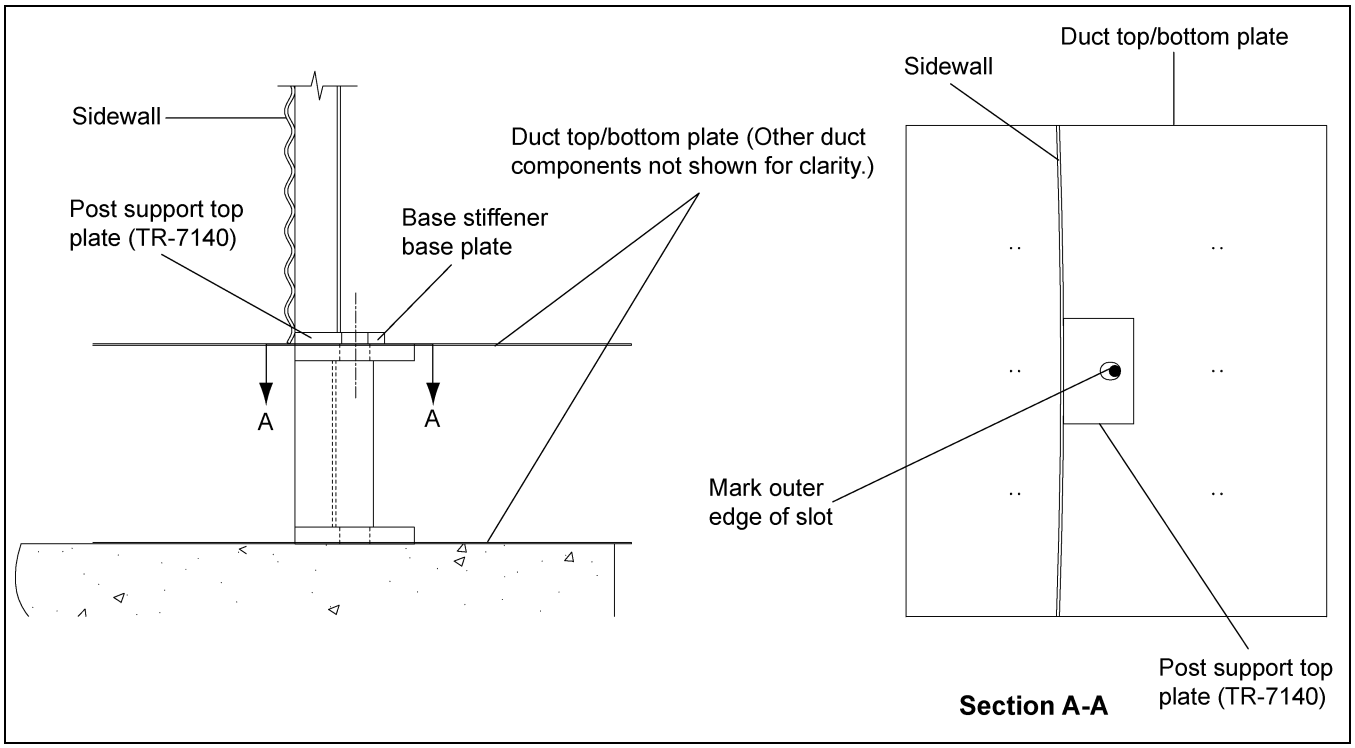


Figure 8

3. Once the anchor bolt is installed, place the duct bottom plate and install the TR-7140 weldment through the anchor bolt. Replace the duct top plate and attach the base stiffener to the post support as shown in *Figure 9*. Secure using standard nuts and square washers.

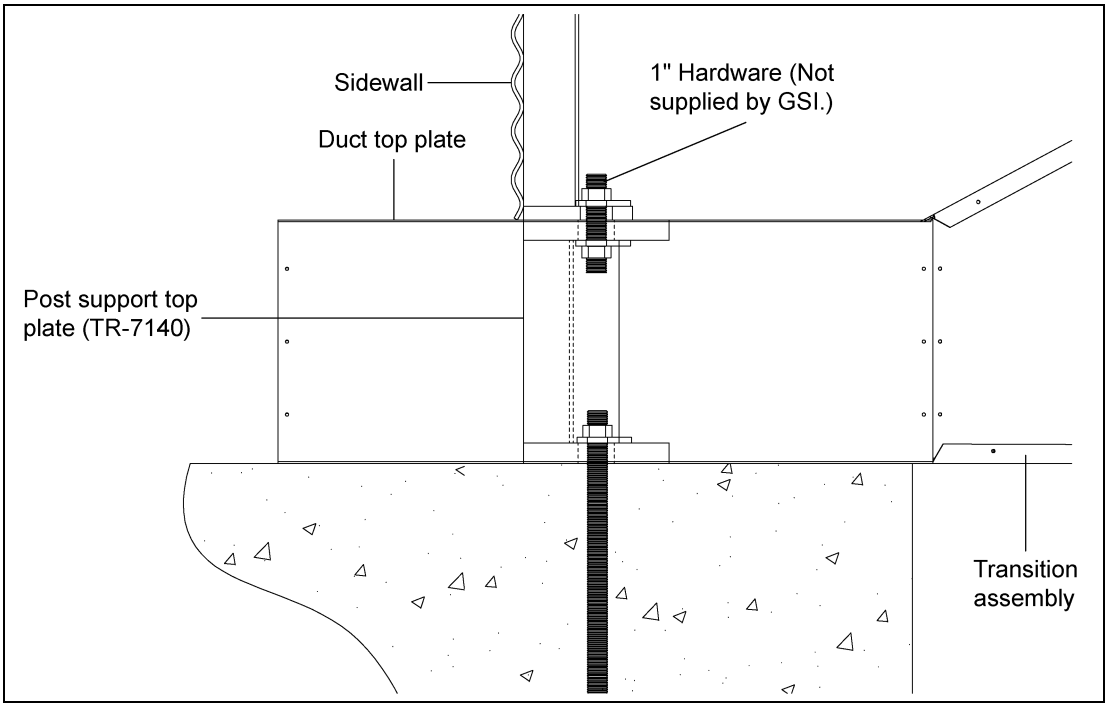


Figure 9

4. If pre-cast long anchor bolts are used, attach the base stiffener to the post support using standard nuts and square washers as shown in *Figure 10*.

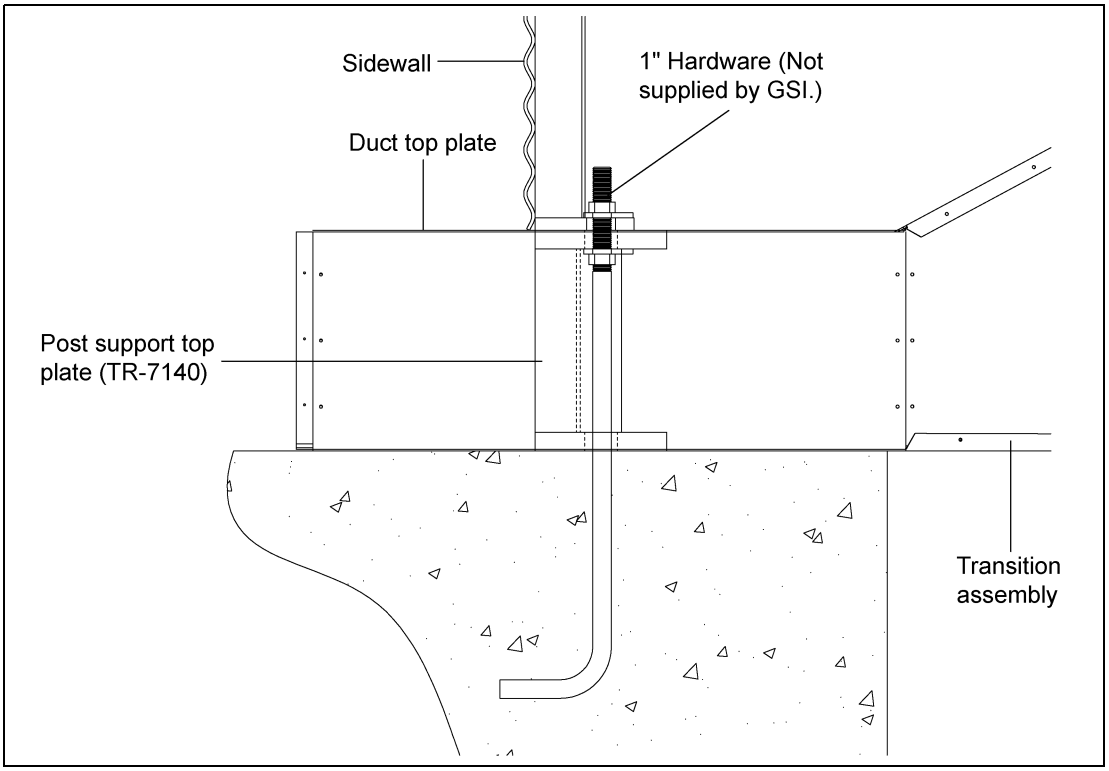


Figure 10