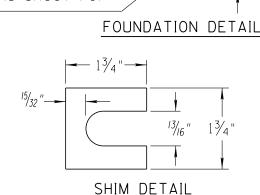


Sections shown are for installations on right shoulder and gore. For installation on left shoulder, plate slot bevels are reversed.

BOLT RETAINER FOR W SHAPE POST

	BASE CONNECTION DATA TABLE									
POST	BOLT SIZE AND TORQUE	DIMENSIONS FOR POST SIZES								
SIZE		Α	В	С	D	E	R	⁺ 1	S	U
W6×12	%" Dia x 3" Torque = 20 to 29 Foot-Lbs	53/4"	10"	1 1/4"	23/4"	1 1/2"	II/ ₃₂ "	3/4"	3/4"	"/16"
W8×18	5/8" Dia x 3" Torque = 30 to 39 Foot-Lbs	5¾"	121/8"	1 1/4"	23/4"	1 1/2"	ll/ ₃₂ "	3/4"	3/4"	"/16"
W10×22	3/4" Dia x 3" Torque = 50 to 59 Foot-Lbs	6½"	145/8"	13/8"	3 1/2 "	1 1/2"	13/32 "	1"	7/8"	13/16 "



SECTION

Finished

2'-

Grade

Table)

Depth-

Furnish 2 each 0.012"± thick and 2 each 0.032"± thick shims per post. Shims shall be fabricated from brass shim stock or strip conforming to the requirements of ASTM B36. Four shims per bolt maximum.

NOTES:

0.25" Plain Spiral 6" Pitch

One Flat Turn Bottom

(See Table for Size)

8 Vertical Bars

-Stub Post

Three Flat Turns Top and

Existina

Ground

Stub Post

to Drain

Slope Concrete

1. All stub posts shall be galvanized a minimum of 12" down from the base of plate.

30"

4" Max Stub

Projection -

- & Post

Top of

Foundation

30"

STUB PROJECTION LIMITS

- 2. Where solid rock is encountered, foundation shall be plan depth or extended 2' minimum into the rock.
- 3. All plates shall be ASTM A572 Grade 50.
- 4. All plate holes shall be drilled. All plate cuts shall preferably be sawcuts; flame cutting will be permitted, provided all edges are ground smooth.

PROCEDURE FOR BOLTING & ASSEMBLY OF BASE CONNECTION

- 1. Assemble post to stub with bolts and with one flat washer on each bolt between plates.
- 2. Shim as required to plumb post (4 shims per bolt maximum).
- 3. Tighten all bolts the maximum possible with 12" to 15" wrench to bed washers and shims and to clean bolt threads, then loosen each bolt in turn and retighten bolts in a systematic order to the prescribed torque (see table). Tighten the bolts in the base connection to the torque shown. DO NOT OVERTIGHTEN.
- 4. Do not deform threads.

FOUNDATION DATA				APPROXIMATE PER LINE		FOUNDATION DEPTH (SEE NOTE 2 ALSO) SLOPES \(\leq 4:1\) SLOPES \(\leq 4:1\)		
POST SIZE	STUB LENGTH	STUB PROJECTION	VERTICAL BAR SIZE	CONCRETE STEEL CU. YD. LBS.		TWO, THREE OR FOUR POSTS		
W6×12	2'-0"	3"	#5	0.116	8.9	6'-0"	6'-0"	
W8×18	2'-6"	3"	#7	0.116	16.3	7'-0"	7'-6"	
W10×22	3'-0"	2 1/2 "	#9	0.116	26.5	8'-0"	8'-6"	

STANDARDS ENCINEER A. ALZUBI RECOMMENDED FOR APPROVAL GROUP MANAGER	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION TRAFFIC SIGNING & MARKING STANDARD DRAWING				
M. HANNA	W SHAPF	DRAWING NO.			
APPROVED	BREAKAWAY POST	S-5			
STANDARDS COMMITTEE APPROVED FOR DISTRIBUTION $\frac{06/2022}{\text{DATE}}$	DETAILS	1 of 1			