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Stub post

Stub Post Connection - Type A

Elevation View

(Single Post)

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Stub post

Stub Post Connection - Type B **Elevation View** (Two Posts)

Stub Post Connection - Type C **Elevation View** (Two Posts)

Sign post

Sign post

Tack weld washer

to base plate

Keeper plate

galvanizing runs or beads

in washer area

Remove all

galvanizing

runs or beads in washer area

Keeper plate

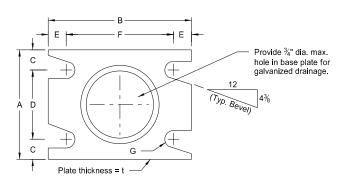
Tack weld washer

Remove all

galvanizing runs or beads in washer area

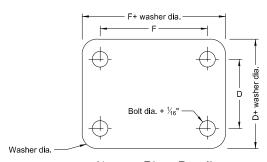
to base plate

Breakaway System for Standard Pipe Stub Post



Base Plate Plan View

Place bevel toward roadway on approach side and away on the other side.



Keeper Plate Detail

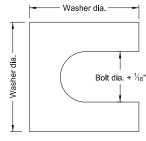
Place keeper plate above center washer between top and bottom slip bases. Fabricate keeper plate from 28 gauge material and galvanize after fabrication in conformance with ASTM A653 G60 coating.

Notes: Tack weld aluminum base plate washers to the base, when the base plate is aluminum.

Use standard drawing D-754-6 for fuse plate, hinge plate, and foundation details.

Assembly Procedure:

- 1. Assemble post to stub with bolts and one flat washer between base plate and keeper plate.
- 3. Tighten all bolts the maximum possible with 12" to 15" wrench to bed washers and shims and to clean bolt threads,
- 4. Retighten bolts in a systematic order to prescribed torque. (see table)
- Loosen each bolt and fill the gaps between the thread and mating surface with thread locking liquid resin, conforming to ASTM D5363-03 (2008), forming solid, one part assemblies secure from vibration, pressure, and
- 6. Retighten each bolt to prescribed torque in the same order as initial retightening.



Shim Detail

Furnish 2 each ±.012" thick and 2 each ±.032" thick shims per post. Fabricate shims from brass shim stock or strip in conformance with ASTM B36.

Direction of Traffic High strength bolt with hex head, hex nut, and three washers. See table for bolt dia. and torque. See assembly procedure. Keeper plate Top of foundation

Direction of Traffic

max. stub

projection

Direction of Traffic

Tack weld washer to base plate

3½" max stub

Stub post

Top of foundation

High strength bolt with hex head, hex nut, and three washers.

See table for bolt dia and torque. See assembly procedure.

Top of foundation - slope for proper installation of bolts as required.

High strength bolt with hex head,

hex nut, and three washers. See table for bolt dia and torque. See assembly procedure.

					Base I	Data Tab	le				_	
Nominal Post Size dia.	Bolt Size (dia. x length)	Base Bolt Torque ft. lb.	A	В	С	D	E	F	G	t	W	Stub Post Length
						Steel	•			'	•	'
3½"	½"x2½"	12	5½"	8%"	¹³ / ₁₆ "	37/8"	13/16"	6¾"	9/32"	3/4"	3/8"	1'-6"
4"	5/8"x23/4"	29	5½"	8¾"	1"	3½"	1"	6¾"	11/32"	3/4"	3/8"	1'-6"
5"	3/4"x31/2"	46	6½"	10"	11/8"	41/4"	11/8"	7¾"	13/32"	1"	7⁄ ₁₆ "	2'-0"
6"	1"x4½"	61	7½"	11¾"	1%"	4¾"	1%"	9"	17/32"	11/4"	7⁄ ₁₆ "	2'-0"
					Alı	ıminum						
3½"	½"x2½"	12	5½"	8%"	¹³ / ₁₆ "	3%"	13/16"	6¾"	9/32"	3/4"	3/8"	1'-6"
4"	5/8"x23/4"	29	5½"	8¾"	1"	3½"	1"	6¾"	11/32"	1"	7⁄16"	1'-6"
5"	3/4"x31/2"	46	6½"	10"	11/8"	41/4"	11/8"	7¾"	13/32"	1"	1/2"	2'-0"
6"	1"x4½"	61	7½"	11¾"	1%"	4¾"	1%"	9"	17/32"	11/4"	1/2"	2'-0"

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION						
11-21-11						
	REVISIONS					
DATE	CHANGE					
8-30-18 8-29-19	Removed lower post and foundation details. Updated notes to active voice. New Design Engineer PE Stam Electronic Stamp/Signature.					

