

7'-0" 2'-6" SPIRAL W-12 (84'-4" LONG)

8'-6" 3'-0" | SPIRAL W-12 (100'-3" LONG)

SPIRAL W-12 (106'-0" LONG)

SPIRAL W-12 (111'-4" LONG)

SPIRAL W-12 (151'-3" LONG)

SPIRAL W-12 (158'-0" LONG)

9'-0" 3'-0"

9'-6" 3'-0"

10'-0" 3'-6"

10'-6" 3'-6"

BOLT

24''

30"

BASE PLATE

KC-2

KC-3

KC-4

KC-5

KC-6

FOOTING

DESIGN

KC=0

KC=2

KC=3

6" WF @ 25

8" WF @ 31

8" WF @ 35

8" WF @ 40

10" WF @ 45

10" WF @ 49

POST

REQUIRED.

KC=1 6" WF @ 15

KC=1A 6" WF @ 20

4" WF @ 13

6" WF @ 25

ROADWAY MAXIMUM FOOTING PROJECTION ABOVE RIGHT HAND SLOTS GROUND LINE PROCEDURE FOR ASSEMBLY OF BASE CONNECTION I. ASSEMBLE POST TO STUB WITH BOLTS AND

"KC" FOOTING DETAILS

WITH SLOPING GROUND LINE

CONSTRUCTION NOTES:

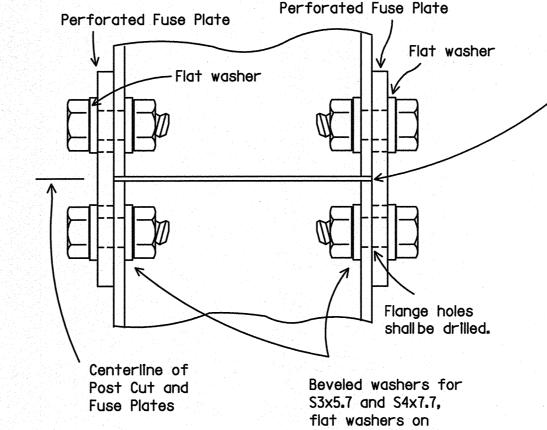
1. ALL PIPE AND WIDE FLANGE BEAM POSTS SHALL CONFORM TO REQUIREMENTS OF THE 2009 STANDARD SPECIFICATIONS.

DESCRIPTION UPDATED NOTE REVISIONS

DATE

11/8/13

- 2. FUSE PLATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM-A441, A572 GRADE 50 OR A588. ALL HOLES SHALL BE DRILLED. ALL PLATE CUTS SHALL BE PREFERABLY SAW CUTS, HOWEVER, FLAME CUTTING WILL BE PERMITTED PRO-VIDED ALL EDGES ARE GROUND. METAL PROJECTING BEYOND THE PLANE OF THE PLATE FACE WILL NOT BE TOLERATED.
- 3. ALL BOLTS, NUTS, AND WASHERS SHALL NOT BE GAL-VANIZED OR PLATED, BUT SHALL BE PAINTED AFTER INSTALLATION, WITH A ZINC RICH PAINT.
- 4. STRUCTURAL STEEL TO BE GALVANIZED AFTER FAB-RICATION, EXCEPT AS NOTED, IN ACCORDANCE WITH THE 2009 STANDARD SPECIFICATIONS.
- 5. POST LENGTHS AS SHOWN ON THE PLANS INCLUDE BOTH SIGN POST & STUB POST WHICH IS SET IN THE CONCRETE FOOTING.
- 6. ALL WELDING MATERIALS AND METHODS, INCLUDING QUALI-FICATION OF WELDERS, SHALL CONFORM TO THE REQUIRE-MENTS OF THE 2009 STANDARD SPECIFICATIONS.
- 7. STRUCTURAL EXCAVATION TO BE PAID FOR IN OTHER ITEMS OF WORK.
- 8. TOP AND BOTTOM WASHERS ON BASE PLATE SHALL BE 1/4" THICK. WASHERS MAY BE ROUND OR SQUARE. USE STANDARD ROUND WASHERS BETWEEN BASE PLATES. REMOVE ALL GALVANIZING RUNS OR BEADS IN THE WASHER AREA.
- 1 9. USE W-12 SPIRAL BAR IN ACCORDANCE WITH 723.07 OF THE STANDARD SPECIFICATIONS, CONTRACTOR MAY SUBSTITUTE #3 SPIRAL BAR IN ACCORDANCE WITH AASHTO M31



WASHERS AND WITH ONE FLAT WASHER ON

EACH BOLT AND BOLT RETAINER BETWEEN

2. SHIM AS REQUIRED TO PLUMB AND ALIGN

POST(S) BEFORE OR IMMEDIATELY AFTER

ORDER, TO THE PRESCRIBED TORQUE TO

BED WASHERS AND SHIMS AND CLEAN

4. LOOSEN AND RETIGHTEN TO PRESCRIBED

TIGHTENING. DO NOT OVER TIGHTEN.

TORQUE IN THE SAME ORDER AS INITIAL

3. TIGHTEN ALL BOLTS, IN A SYSTEMATIC

POURING CONCRETE FOOTING.

BASE PLATES.

BOLT THREADS.

Parts shall be saw cut either before advanizing and the advanized cut cleaned of zinc build-up, or saw cut after galvanizing and the cut surface treated with zinc-based solder or zincrich paint in accordance with ASTM A780. (Cut surface will not be treated until plate is installed and all bolts fully

FURNISH 2 0 0.012 THICK AND 2 0 0.032 THICK SHIMS FOR POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OF STRIP CONFORMING TO ASTM-836.

	BASIS OF PAYMENT							
ITEM NO.	ITEM	UNIT						
804(A)	STRUCTURAL CONCRETE	CY						
804(B)	REINFORCING STEEL	LB						
851(A)	GALV. STEEL WIDE FLANGE BEAM POST	LF						
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APPROVED BY

TRAFFIC ENGINEER:

TRAFFIC STANDARD

2009 SPECIFICATIONS

STANDARD FOOTINGS FOR GROUND MOUNTED SIGNS (GALVANIZED WIDE FLANGE)

> FGS2-1 01 T-142

DATE: 11/12/2013

B B	S S S	FUSE PLATE DETAIL								Puse Plates <u>DET/</u>			53. flo ot <u>AIL "A"</u>
	"KC" P	OST DATA											
		FUSE PLATE DATA TABLE BOLT											H
	Р	Q	S	٧	W	×	Υ	Z	T3	BOLT DIA	D 1	D2	(MAX)
	4′′	2-1/4"	7/8′′	4-1/2"	1"	2-1/4"	1-1/8''	1/2"	1/2"	1/2"0	9/16"	11/16''	10'
	6′′	3-1/2"	1-1/4"	4-1/2"	1-1/2"	2-1/4"	1-1/8"	3/4′′	1/2"	5/8′′¢	11/16"	1''	10'
	6′′	3-1/2"	1-1/4"	4-1/2"	1-1/2"	2-1/4"	1-1/8"	3/4''	1/2"	5/8′′¢	11/16"	1''	10'
ر ا ا	6′′	3-1/2"	1-1/4"	5′′	1-1/2"	2-1/2"	1-1/4"	3/4"	1/2''	3/4′′¢	13/16"	1''	10'
	8''	5-1/2"	1-1/4"	6′′	2''	3''	1-1/2"	1′′	1/2"	7/8′′¢	15/16"	1''	15'
	8''	5-1/2"	1-1/4"	6′′	2''	3''	1-1/2"	1"	1/2"	7/8′′0	15/16"	1''	15'

TORQUE BOLT DIA. MIN. | MAX. 6" 2-1/8" 1-1/4" 3-1/2" 1-1/4" 3/4" 13/16" 4" 3/4" X 3" 3/4" X 3" 88.27 6'' 2-1/8'' 1-1/4' 3-1/2'' 1-1/4'' 3/4'' 13/16'' FT LBS | FT LBS 6" 2-1/8" 1-1/4" 3-1/2" 1-1/4" 3/4" 13/16" 3/4" X 3" 6" 2-1/8" 1-1/4" 3-1/2" 1-1/4" 3/4" 13/16" | 6" 3/4" X 3" 8'' 2-3/4'' 1-5/8'' 4-1/2'' 1-3/4'' 3/4'' 1-1/16" 8'' 1" X 3-1/4" 8" 2-3/4" 1-5/8" 4-1/2" 1-3/4" 3/4" 1-1/16" 1" X 3-1/4" FT LBS FT LBS

8" WF @ 31 8" WF @ 35 1-5/8''4-1/2''1-3/4'' 3/4'' 1-1/16" 8'' 5-1/2'' 1-1/4'' 7'' 2'' 3-1/2''1-3/4'' 1'' 3/4'' 1''0 1-1/16" 1-1/4'' 15' 8" WF @ 40 1" X 3-1/4" 1-1/4" 7" 3-1/2" 1-3/4" 1" 3/4" 2'' 1"0 1-1/16" 87.46 1'' 1-3/16" 8'' 5-1/2'' 1-1/8" X 4" 137.97 | 10'' | 3'' -3/4'' 10" WF @ 45 2" 1-1/4" 3/4" 1-1/8" 0 1-3/16" 1-1/2" 15" 2-1/4" 8" KC=7 10" WF @ 49 1-1/8" X 4" FT LBS FT LBS 10" 3" 1-3/4" 6" 1'' | 1-3/16" | 10'' | 5-1/2''

465 LBS

TABLE 2

.82 CU.YD. 174 LBS

8 # 10 .99 CU.YD. 316 LBS

8 # 10 | 1.05 CU.YD. | 338 LBS

8 # 11 | 1.11 CU.YD. | 428 LBS

1.82 CU.YD.

8 # 11 | 1.91 CU.YD. | 490 LBS

BASE CONNECTION TABLE

SHIM DETAIL