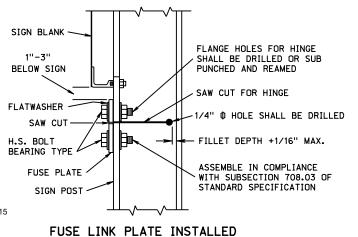


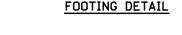


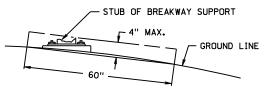
USE H.S. BOLTS WITH HEX. HD. & HEX. NUT, ONE FLAT WASHER UNDER EACH BOLT HEAD AND UNDER EACH NUT.



DIA. STUB POST 8 or BARS NO. 2 PLAIN SPIRAL 5 6" PITCH. THREE FLAT TURNS TOP AND ONE FLAT TURN BOTTOM.

4" MAX.





BREAKWAY SUPPORT STUB HEIGHT MEASUREMENT

POST

PROJECTION

3"

3"

3"

LENGTH

3'-0

Ⅱ 3'-0"

Ⅲ 3'-0"

IX | 3'−0"

▼ 3'-0"

FOOTING TABLE

DIA.

30"

30"

36"

36"

ALL TABLE DIMENSIONS IN INCHES

NOTE: SEE STUB POST BASE CONNECTION

TABLE FOR DIMENSIONS.

EXCEPT AS INDICATED.

FDGE OF PAVEMENT

24" 4'-6"

4'-6"

5'-0"

5'-6"

5'-6"

CU. YDS. VERTICAI

RFRAR

SIZE

#4

#4

#5

#5

#5

OF

CONC.

.52

.82

.91

1.44

1.44

FUSE LINK PLATE TABLE BOLT PLATE POST DIA. d wt. in lbs NO. LENGTH 5 1/4 2 3/4 1 1/4 5/8 5 3/4 | 1 1/8 | 2 1/16 7/8 2 1/4 2.54 11/16 % 5/8 1/8 | 2 1/16 7/8 2 1/4 2.54 15/₁₆ $2^{3/4}$ 2 1/2 7/8 5.63 2 ½ 2 1/2 7/8 3 5.63 |6 ½ |3 ½ |1 ½ | 2 2 1/2 7/8 3 1/2 5.63

STUB POST BASE CONNECTION TABLE BOLT SIZE, POST AREA LENGTH & R CONNECTION В С D NO. SHAPES SQ. FT. MAX. TORQUE WT. IN LBS. 0-85 | W6 x 15 | 3/4" x 3-1/4" 10 1/2 88 74" 3 1/2 1 1/4 12 1/2 80 FT.-LB. Ⅱ W8 x 18 105 86-120 121-170 III | W8 x 24 13 1/8 164 7/8" x 4" 171-225 IX | W8 x 31 | 13 1/4 | 7/8" 4 2 15/32 184 100 FT.-LB. OVER 225 ▼ W8 x 48 13 3/2 238

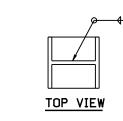
米 INCLUDES WEIGHTS OF 2 BASE CONNECTION PLATES, BOLTS, WASHERS, STUB POST, FUSE PLATE AND WELDING. WEIGHT OF POST, ABOVE BASE CONNECTION, SHALL BE COMPUTED AND ADDED FOR EACH LOCATION.

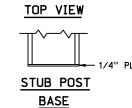
SIGN LENGTH=L

1/5 L

1/6 L

POST SPACING





FOR ALL W SHAPES

1 3/4"

─ 15/32

SHIM DETAIL

2 ∽ .032"± THICK SHIMS PER POST.

SHIMS SHALL BE EARRICATED FROM

BRASS SHIM STOCK OR STRIP CON-

FORMING TO A.S.T.M.-B36.

FURNISH 2 5 .012" ± THICK AND

FUSE PLATE BOLT TENSION BOLT REQUIRED MIN. EQUIVALAN1 BOLT TENSION (Ibs.) SIZE TENSION 1/2 * 12,050 * 19.200 3/4 * 28,400 7/8 * 39,250 * 51.500

* SEE NOTE 9

IF MINIMUM BOLT LENGTHS AS SHOWN IN TABLE ARE NOT AVAILABLE, USE NEXT LONGER STANDARD BOLT LENGTH. **GENERAL NOTES** POST POST

1. THE FABRICATION OF THE SUPPORTS INVOLVING SUCH OPERATIONS AS CUTTING, DRILLING. WELDING AND CLEANING SHALL BE IN ACCORDANCE WITH SECTION 708. MILL TEST REPORTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION. 2. SIGNS SHALL BE ERECTED SO THE SIGN FACE IS TRULY VERTICAL AND AT A°93 ANGLE (AS SHOWN), WHEN THE SIGN IS 15' OR LESS FROM THE EDGE OF THE PAVEMENT. WHEN THE SIGN IS MORE THAN 15' FROM THE PAVEMENT EDGE, THE SIGN SHOULD BE PLACED NOT LESS THAN 90° TO THE DIRECTION OF TRAFFIC.

- THE FOOTINGS ARE DESIGNED IN CYLINDRICAL SHAPE FOR USE WITH POWER EQUIPMENT, WHERE CONDITIONS PERMIT. CONCRETE MAY BE POURED AGAINST SOIL WITHOUT FORMING, EXCEPT FROM A MINIMUM OF 6" UNDER EXPOSED LOW SIDE (AS SHOWN) TO THE TOP OF THE FOOTING
- 4. ALL CONCRETE SHALL BE CLASS "47B".
- 5. ALL STRUCTURAL STEEL SHALL COMPLY WITH ASTM-A36 OR EQUAL AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-A123.
- 6. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED HIGH STRENGTH STEEL COMPLYING WITH ASTM-A325.
- 7. THE SAW CUT FOR THE HINGE SHOULD BE MADE ON THE JOB SITE TO AVOID DEFORMATION OF THE PRE-CUT POST IN SHIPPING. IF THE CONTRACTOR ELECTS TO SAW CUT FOR THE HINGE BEFORE GALVANIZING THE POST. THE POST SHALL BE CAREFULLY INSPECTED AT THE JOB SITE AND ANY DEFORMATION OF THE POST SHALL BE CAUSE OF REJECTING THE POST. IF THE SAW CUT IS FILLED WITH GALVANIZING MATERIAL. ON ARRIVAL AT THE JOB SITE. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE THE GALVANIZING FROM THE CUT. WHEN THE SAW CUT IS MADE AT THE JOB SITE, THE SAW CUT SHALL BE TREATED WITH A ZINC DUST-OXIDE PRIMER OR ZINC RICH PAINT COMPLYING WITH SECTION 1077.
- 8. ALL POSTS WITHIN A 7-FOOT PATH SHOULD NOT WEIGH MORE THAN 45 POUNDS PER FOOT AND THE TOTAL WEIGHT BELOW THE HINGE, BUT ABOVE THE SHEAR PLATE OF THE BREAKAWAY BASE, SHOULD NOT EXCEED 600 POUNDS.
- 9. FUSE PLATE BOLTS MUST BE TIGHTENED BY THE TURN-OF-NUT METHOD. SEE TABLE 708.04 FOR PROPER NUT ROTATION. ASSEMBLE IN COMPLIANCE WITH SUBSECTION 708.03.
- 10. SIGN POSTS SHALL BE CUT OFF FLUSH WITH THE TOP OF THE SIGN.

MIN. MIN. SHOULDER

POINT

ROADWAY

- 1 1

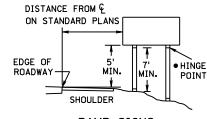
EXIT SIGNS

AT GORE AREA

ROADWAY

URBAN FREEWAY (INTERSTATE) OR EXPRESSWAY: EDGE OF SIGN SHALL BE LOCATED A MINIMUM OF 30 FT. FROM EDGE OF THRU ROADWAY.

> SIGNS LOCATED ADJACENT TO ROADWAY



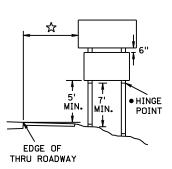
SIGN LENGTH=L

1/6 L

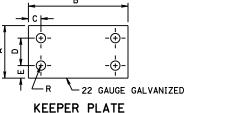
RAMP SIGNS LOCATED OFF INTERSTATE

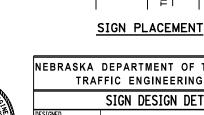
• THE HINGE POINT SHOULD BE AT LEAST 7 FEET ABOVE THE GROUND

NO SUPPLEMENTARY SIGN SHALL BE PLACED BELOW THE HINGES



SUPPLEMENTARY SIGN MOUNTING





E-11027

NEBRASKA DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING DIVISION

| SIGN DESIGN DETAILS | | | | |
|----------------------|-----|---|------------------|------|
| DESIGNED REVIEWED | KSF | BREAK-A-WAY TYPE POST DETAILS FOR TYPE "B" & "C" SIGNS | | (1) |
| APPROVED | | DATE DRAWN | TRAFFIC ENGINEER | DATE |

EDGE OF POINT THRU ROADWAY

THE RUPAL FREEWAY (INTERSTATE): EDGE OF SIGN SHALL BE LOCATED A MINIMUM OF 35 FT. FROM EDGE OF ROADWAY. RURAL EXPRESSWAY: EDGE OF SIGN SHALL BE LOCATED A MINIMUM OF 30 FT. FROM EDGE OF ROADWAY.

1/5 L

ASSEMBLE POST TO STUB WITH BOLTS, WITH ONE FLAT WASHER ON EACH BOLT BETWEEN PLATES. SHIM AS REQUIRED TO PLUMB POST.

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 IN A SYSTEMATIC ORDER. THIS PROCEDURE SHALL BE REPEATED UNTIL ALL BOLTS HAVE BEEN PROPERLY TENSIONED BY THE TURN-OF-NUT METHOD (SEE NOTE 9).

PROCEDURE FOR ASSEMBLY

OF BASE CONNECTION

BURR THREAD AT JUNCTION WITH NUT, USING A CENTER PUNCH TO PREVENT NUT LOOSENING.