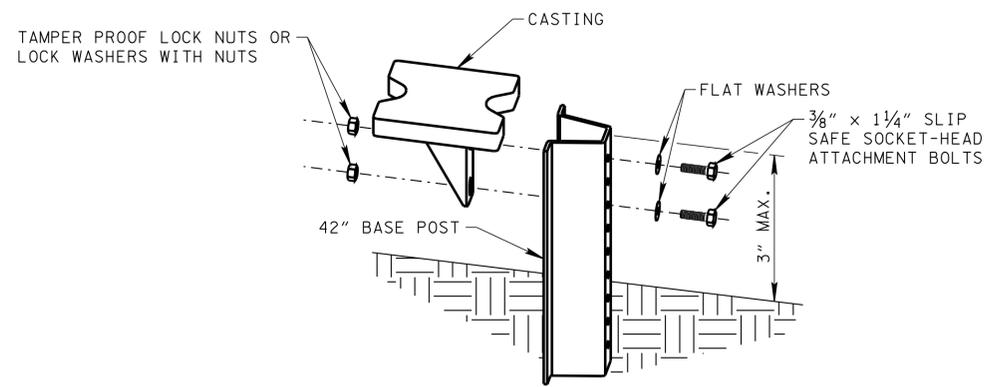
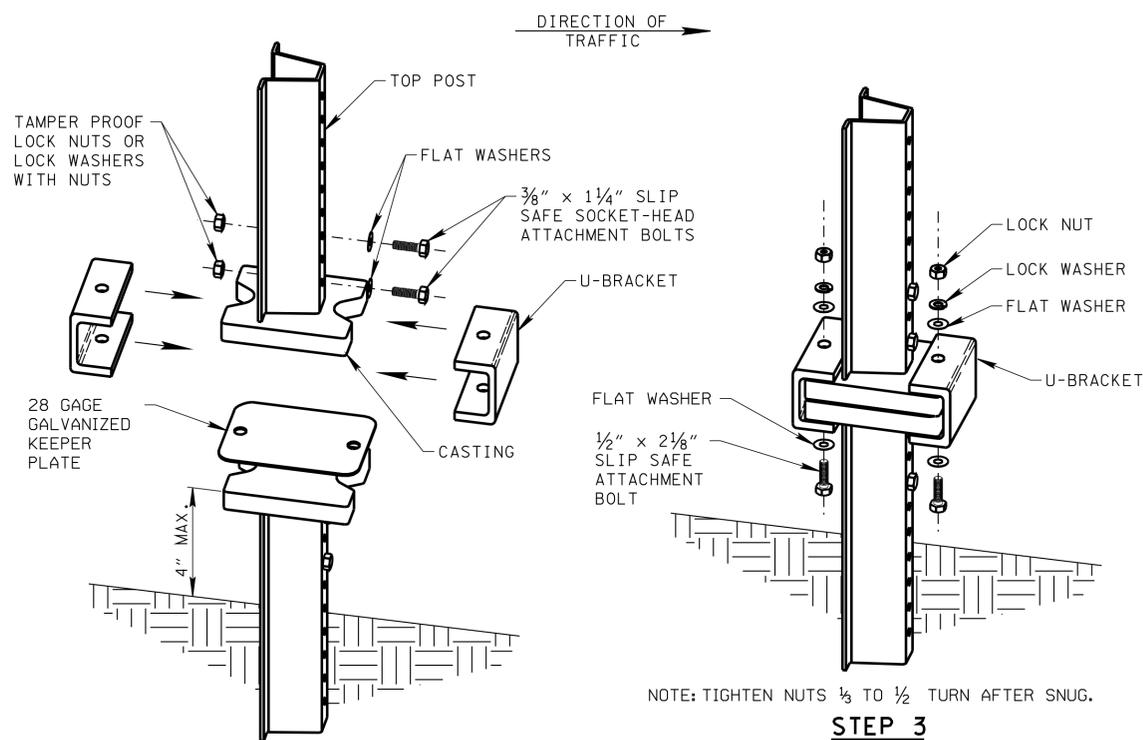


**MULTI-DIRECTIONAL BREAKAWAY SLIP BASE** <sup>(D)(E)(K)</sup>



NOTE: BOLTS SHOULD BE TIGHTENED 1/2 TO 3/4 TURN AFTER SNUG.

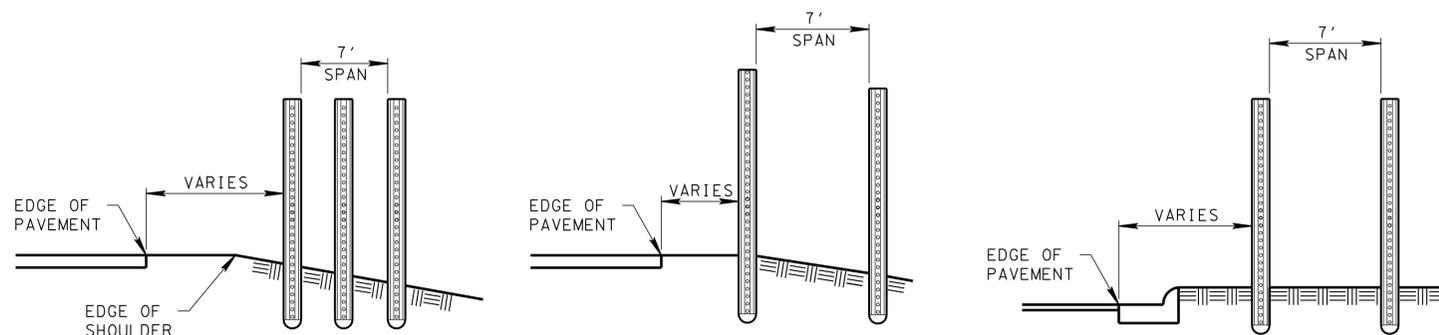
**STEP 1**



**STEP 2**

**STEP 3**

NOTE: TIGHTEN NUTS 1/2 TO 1/2 TURN AFTER SNUG.



3 LB/FT BREAKAWAY POSTS  
3 POSTS WITHIN 7' SPAN

3 LB/FT POSTS  
WITH OR WITHOUT BREAKAWAY POSTS  
2 POSTS WITHIN 7' SPAN

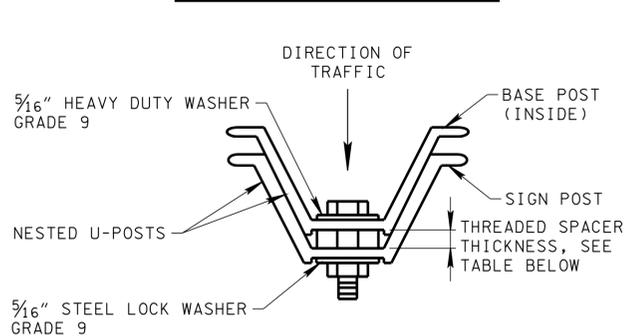
4 LB/FT BREAKAWAY POSTS  
2 POSTS WITHIN 7' SPAN

**TYPICAL U-POST INSTALLATION DETAILS** <sup>(B)(C)</sup>

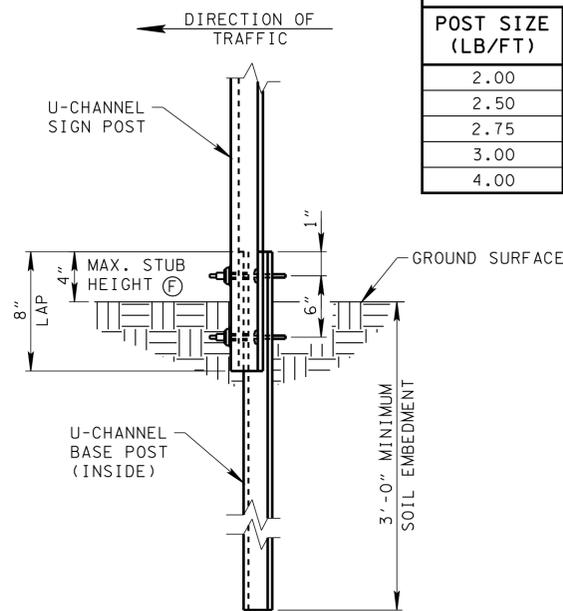
NOT TO SCALE

**SINGLE-DIRECTIONAL BREAKAWAY LAP SPLICE** <sup>(H)</sup>

**FLORIDA LAP SPLICE**



**SECTION (THRU BREAKAWAY SPLICE)**

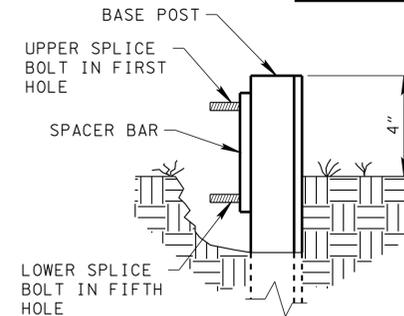


**ELEVATION**

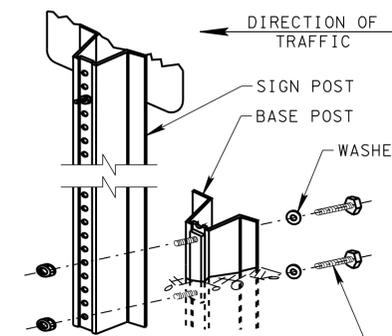
**SPACER THICKNESS FOR NESTED POSTS**

POST SIZE (LB/FT)	THICKNESS (INCHES)
2.00	3/8
2.50	5/16
2.75	1/4
3.00	5/8
4.00	1/2

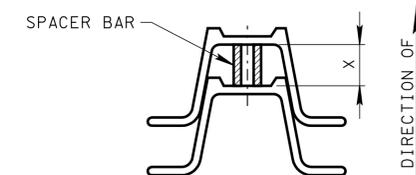
**SPACER BAR ALTERNATE**



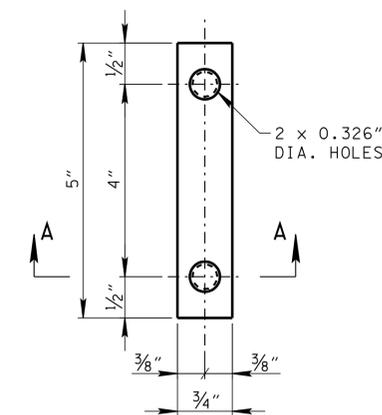
**SIDE VIEW**



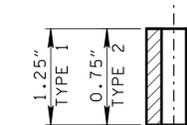
**ISOMETRIC VIEW**



**SECTION (THRU SPACER BAR)**



**SPACER BAR ELEVATION**



**SECTION A-A**

NOTE: WHEN 'X' IS GREATER THAN 3/4", USE TYPE 1 SPACER BAR WHEN 'X' IS 3/4" OR LESS, USE TYPE 2 SPACER BAR

**GENERAL NOTES**

- (A) BREAKAWAY SIGN SUPPORTS SHALL BE USED ON ALL SIGN POSTS LOCATED WITHIN THE CLEAR ZONE OF A ROADWAY AND NOT PROTECTED BY AN APPROVED BARRIER SYSTEM.
- (B) SINGLE OR DOUBLE POSTS SIZED 3 LBS/FT OR SMALLER WITH A 7-FOOT CLEAR SPAN BETWEEN DOUBLE POSTS MAY BE DIRECT DRIVEN, AS THE POSTS ALONE ARE CONSIDERED BREAKAWAY PER FHWA. ALL TRIPLE U-POST INSTALLATIONS OF ANY SIZE POST, AND ALL 4 LBS/FT U-POST (MEMBER DESIGNATION U7 ON T-S-19) INSTALLATIONS OF ANY NUMBER OF POSTS, SHALL UTILIZE AN APPROVED BREAKAWAY SYSTEM. MULTI-DIRECTIONAL OR LAP-SPLICE SYSTEMS MAY BE USED, EXCEPT WHERE NOTED OTHERWISE, OR AS DIRECTED BY THE ENGINEER.
- (C) NO MORE THAN 2 SIGN POSTS OF ANY GAGE SHALL BE LOCATED WITHIN A 7-FOOT CIRCLE.
- (D) MULTI-DIRECTIONAL BREAKAWAY SLIP BASE SHALL BE USED AT LOCATIONS WHERE THE POSSIBILITY EXISTS OF THE SIGN BEING HIT FROM ANY DIRECTION. ALL U-POST SIGNS LOCATED IN ISLANDS, AT INTERSECTIONS, OR LOCATED ALONG THE OUTSIDE OF A HORIZONTAL CURVE SHALL BE EQUIPPED WITH A BREAKAWAY SYSTEM, REGARDLESS OF THE NUMBER OF POSTS OR SPACING.
- (E) ALL SIGN PANELS PLACED PARALLEL TO THE DIRECTION OF TRAFFIC FLOW (SUCH AS ONE-WAY SIGNS ON A DIVIDED HIGHWAY) SHALL BE MOUNTED ON A MULTI-DIRECTIONAL BREAKAWAY SYSTEM.
- (F) BASE POST STUB HEIGHT SHALL BE 4 INCHES OR LESS ABOVE FINISHED GROUND SURFACE. WHEN DRIVING THE STUB POST, A DRIVE CAP OR OTHER ACCEPTABLE MEANS SHALL BE USED TO PROTECT THE TOP OF THE STUB POST FROM DAMAGE.
- (G) ALL FINISHED COMPONENTS OF THE SLIP BASE SYSTEM SHALL BE PERMANENTLY MARKED TO INDICATE THE MANUFACTURER, METHOD, DESIGN, AND LOCATION OF MARKING SHALL BE AS APPROVED BY THE ENGINEER.
- (H) THE STUB POST AND THE U-CHANNEL POST SHALL BE OF THE SAME SIZE (LB/FT) AND FROM THE SAME MANUFACTURER.
- (I) INTERMIXING OF U-CHANNEL POSTS WITH PERFORATED SQUARE TUBE POSTS AT ANY SIGN INSTALLATION LOCATION WILL NOT BE ALLOWED.
- (J) FOR BASE STUB AND U-POST MATERIAL PROPERTIES, SEE STANDARD DRAWING T-S-19. FOR DETAILS OF SIGN CONNECTION TO U-POST, SEE OTHER T-S-SERIES STANDARDS.
- (K) INSTALL MULTI-DIRECTIONAL SLIP BASE STRUCTURAL SIGN SUPPORT SYSTEM AS SHOWN OR APPROVED EQUAL. ONLY THOSE SYSTEMS APPROVED BY FHWA ACCEPTANCE LETTER AND FOUND ON THE TDOT QPL SHALL BE USED.
- (L) STEEL U-POSTS, BASE POSTS, SLIP BASES, AND HARDWARE SHALL BE SELECTED FROM THE QPL.

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**BREAKAWAY  
U-POST  
SIGN SUPPORTS**

09-01-12 T-S-23C