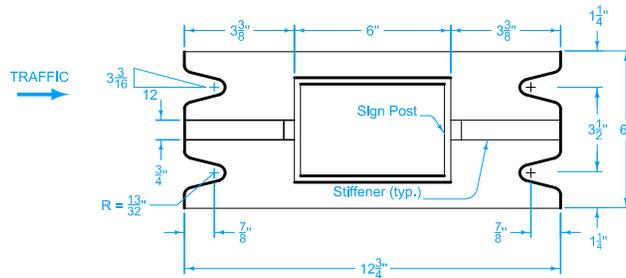
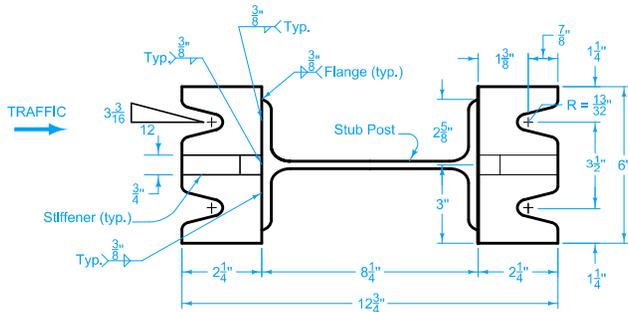


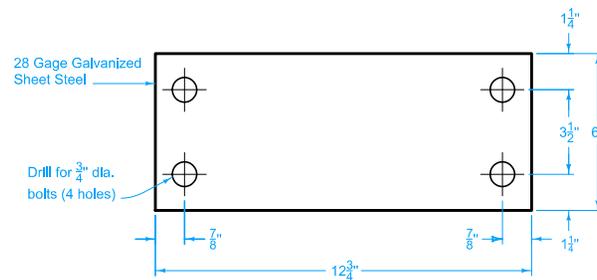
SECTION A-A



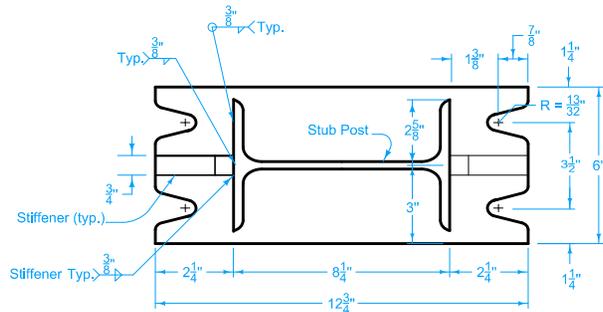
SECTION B-B
PLAN - BASE



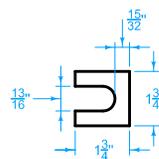
SECTION C-C
PLAN - BASE
ALTERNATE 1



KEEPER PLATE

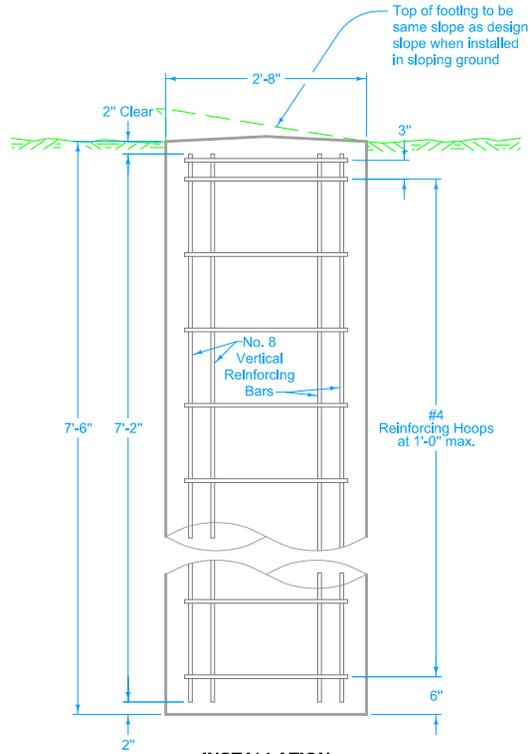


SECTION C-C
PLAN - BASE
ALTERNATE 2

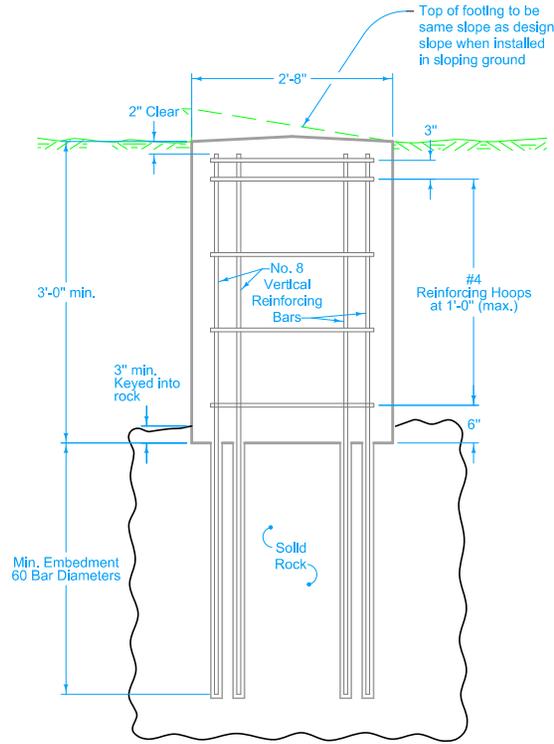


SHIM

 Iowa Department of Transportation	REVISION	
	1	10-18-11
STANDARD ROAD PLAN	SI-114	
	SHEET 2 of 3	
<small>REVISIONS: Modified Breakaway Brace weld size. Added size of welds on Section C-C, added Alternate 2 and clarified dimensioning on Section B-B.</small>		
<i>Deanna Mufield</i> <small>APPROVED BY DESIGN METHODS ENGINEER</small>		
SUPPORT STRUCTURES - STEEL BREAKAWAY POSTS RECTANGULAR TUBE		

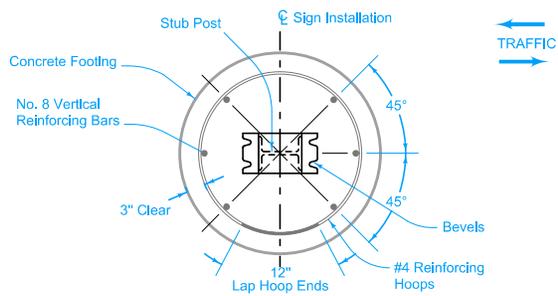


**INSTALLATION
NORMAL FOOTING IN EARTH**

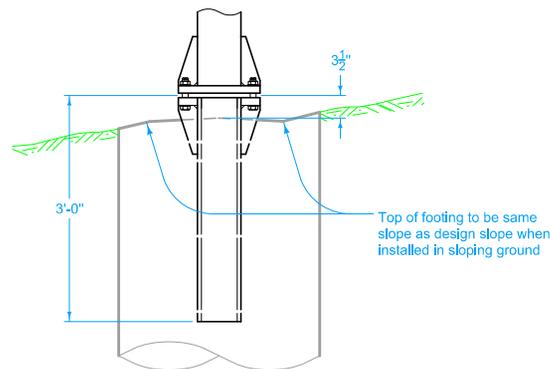


**ALTERNATE DESIGN
FOOTING IN SOLID ROCK ②**

- ② Set vertical bars in solid rock as follows:
1. Drill holes twice bar diameter and fill with water.
 2. When hole is fully saturated; blow water out and fill two-thirds depth with sand cement mortar.
 3. Insert bar and consolidate mortar.
 4. Fill hole to top with mortar.



**PLAN
(Reinforcing Placement and Sign Orientation)**



BREAKAWAY POST INSTALLATION

	REVISION
	1 10-18-11
STANDARD ROAD PLAN	SI-114
SHEET 3 of 3	
<small>REVISIONS: Modified Breakaway Brace weld size. Added size of welds on Section C-C, added Alternate 2 and clarified dimensioning on Section B-B.</small>	
<i>Deanna Mufield</i> <small>APPROVED BY DESIGN METHODS ENGINEER</small>	
SUPPORT STRUCTURES - STEEL BREAKAWAY POSTS RECTANGULAR TUBE	