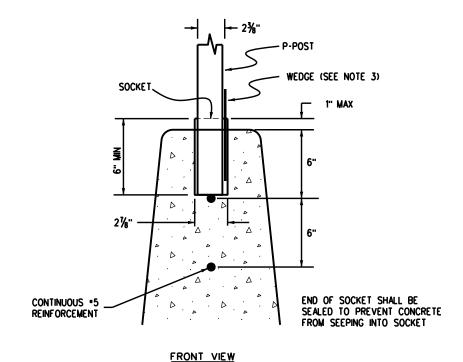


POST SELECTION TABLE (90 MPH WIND LOAD DESIGN)									
SIGN PANEL WIDTH									
Ì		1'-6"	2'-0" 2'-6" 3'-0"		3'-6"	4'-0"	5'-0"		
Ī	1'-6"	Р	Р	Р	Р	Р	Ρ	P1	
	2'-0"	Р	Р	Р	Р	Р	Ρ	P1	
اءِ	2'-6"	Р	Р	Р	Р	P1	P1	P1	
HEIGHT	3'-0"	Р	РР		Р	P1	P1	P1	
	3'-6"	Р	P P1		P1	P1	P1	P1	
PANEL	4'-0"	Р	Р	P1	P1	P1	P1	P1	
SS	5'-0"	P1	P1	P1	P1	P1	P1	P1	
<u>~</u>	60	P1	P1	P1	P1	P1	P1	P1	
Ī	7'-0"	P1	P1	P1	P1	P1	P1	P2	
Ī	8:-0"	P1	P1	P1	P1	P2	P2	P2	
DIAMOND PANELS (30", 36" AND 48" SIDES) - P1									
POST TYPE P P1 P2 FOR DETAILED POST OUTSIDE DIAMETER 2.375" 2.875" 2.875" SPECIFICATIONS SEE WALL THICKNESS 0.080" 0.160" 0.276" STANDARD PLAN S-614-8						SEE			

GENERAL NOTES

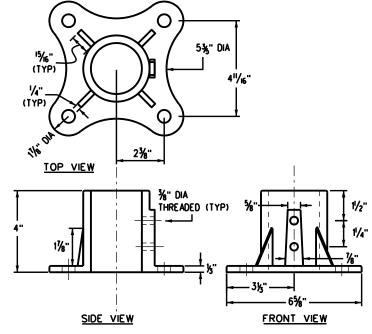
- FOR DETAILS OF CONCRETE BARRIER (CAST-IN-PLACE AND/OR PRECAST), SEE STANDARD PLANS M-606-13, M-606-14, AND M-606-15.
- 2. FOR SIGN PANEL FABRICATION DETAILS, SEE STANDARD PLANS S-614-2, S-614-3, AND S-614-4.
- SOCKET SYSTEMS AND SLIP BASES SHALL BE ASSEMBLED ACCORDING TO STANDARD PLAN S-614-8.
- BARRIER WALLS SHALL BE SUPPORTED TO PREVENT DEFORMATION DURING PLACEMENT OF SLIPBASE STUB OR SOCKET ON CAST-IN-PLACE INSTALLATIONS.
- THE ENGINEER SHALL ESTABLISH LOCATIONS FOR ALL SIGN POSTS IN ACCORDANCE WITH DETAILS SHOWN ON THE PLANS.
- ALL SIGN POSTS SHALL BE MOUNTED PLUMB.
- BOLTS, NUTS, WASHERS AND ANCHOR BOLTS SHALL CONFORM TO ASTM A307. THEY SHALL ALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 OR ASTM A164.
- ALL STEEL CUTS SHALL PREFERABLY BE SAW CUTS; HOWEVER, FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GROUND.
- MOUNTING SYSTEM FOR EACH SIGN LOCATION SHALL BE AS SHOWN ON THE PLANS.
- ALL WELDING IS TO BE IN ACCORDANCE WITH AWS SPECIFICATIONS OF CURRENT ISSUE AND SHALL BE CONTINUOUS.
- ANCHOR BOLTS FOR RETRO-FIT INSTALLATION SHALL BE 'HILTIKWIK HUS-EZ' SCREW ANCHORS AND SHALL BE DRILLED AND FILLED WITH APPROVED EPOXY GROUT IN 2 INCH HOLES FOR $\frac{1}{6}$ -INCH BOLTS AND 1- $\frac{1}{2}$ INCH HOLES FOR $\frac{1}{2}$ -INCH BOLTS.
- 12. RETRO-FIT INSTALLATION PROCEDURE SHALL NOT BE USED ON NEW CONSTRUCTION WITHOUT APPROVAL OF THE ENGINEER.
- 13. SIGN PANELS, MOUNTED ON CONCRETE BARRIER, SHALL NOT ENCROACH THE TRAVEL LANE.



SOCKET SYSTEM (P POST ONLY)

%"-16 x 1/2" ZINC-PLATED, GRADE 5, HEX BOLT, COATED WITH ANTI- SEIZE PRIOR TO INSTALLATION (2 EACH) 1/2" DIA ANCHOR BOLTS (TYP) SIDE VIEW FRONT VIEW

SURFACE MOUNT CASTING (P POST ONLY)



SURFACE MOUNT CASTING DETAIL (P POST ONLY)

CAST-IN-PLACE CONCRETE BARRIER INSTALLATION

RETRO-FIT CONCRETE BARRIER INSTALLATION

Computer File Information		Sheet Revisions		Colorado Department of Transportation	CONCRETE BARRIER	STANDARD PLAN NO.
Creation Date: 07/04/12		Date:	Comments	2829 W. Howard Pl.		S-614-21
Created By: Lee	œ	09/21/20	REVSION OF NOTE 13	Denver, CO 80204	SIGN POST	
Last Modification Date: 09/21/2020				Phone: 303-757-9436 FAX: 303-757-9219	INSTALLATIONS	Standard Sheet No. 1 of 2
Last Modified By: DiNardo				Traffic & Safety Engineering MKB	les ed Dus Trett's A. Catalu Fee'ree're Dreech I. Iv. 71, 2010	Declark Chark Number
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	0			1. Trottic & Sorety Engineering With	Issued By: Traffic & Safety Engineering Branch July 31, 2019	Project Sheet Number:

SURFACE MOUNT SLIPBASE TUBULAR STEEL SIGN BASE REQUIREMENTS

FOR 2% INCH POSTS (P1 OR P2 POSTS)

FOR CONCRETE SURFACES GREATER THAN 7 INCHES THICK FOR CONCRETE SURFACES GREATER THAN 12 INCHES IN WIDTH

MOUNTING HARDWARE

8 - EACH 1/8 x 51/2 INCH LONG 'HILTIKWIK HUS-EZ' SCREW ANCHORS

16 - EACH 1/8 INCH FLAT WASHERS
8 - EACH 1/8 INCH LOCK WASHERS
8 - EACH 1/8 INCH NUTS

INSTALLATION REQUIREMENTS:

DRILL: (8) - 1/2 INCH HOLES 6 INCH DEEP, CLEAN HOLE PRIOR TO INSTALLING ANCHORS

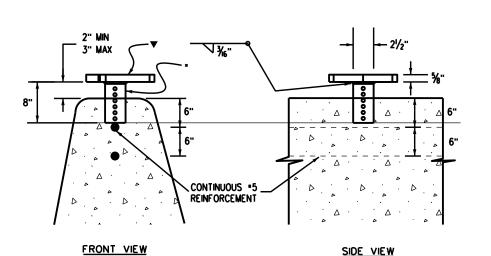
USE ADDITIONAL WASHERS FOR SHIMMING TO LEVEL BASE PLATE.

ALL HARDWARE WILL BE GALVANIZED OR ZINC PLATED.

SURFACE MOUNT SLIPBASE TUBULAR STEEL SIGN BASE NOTES

- REFER TO SIGNING PLANS FOR SIGN LOCATIONS AND HEIGHT
- MINUMUM ALLOWABLE TENSION CAPACITY FOR WEDGE ANCHORS 3000 LBS.

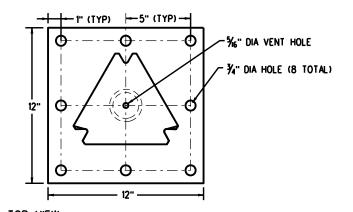
 MAXIMUM ALLOWABLE MOMENT FOR SIGN BASE 5.13 kip-ft.

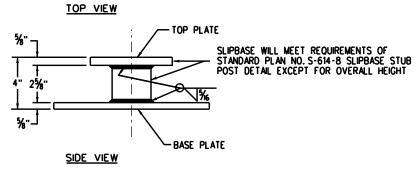


- ▼BASE PLATE SHALL BE %" ASTM A-36, 441 OR 572 STEEL PLATE. SEE STANDARD PLAN S-614-8 FOR DIMENSIONS.
- * BASE STUB SHALL BE 21/2" SQUARE 10 GAGE PERFORATED TUBING, FABRICATED AND GALVANIZED CONFORMING TO ASTM A-153

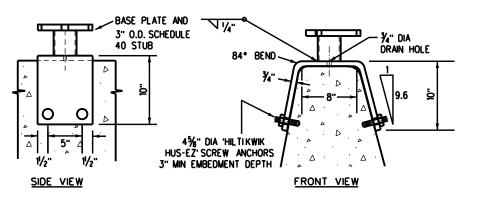
SLIPBASE BARRIER STUB (P1 & P2 POSTS)

CAST-IN-PLACE CONCRETE BARRIER INSTALLATION

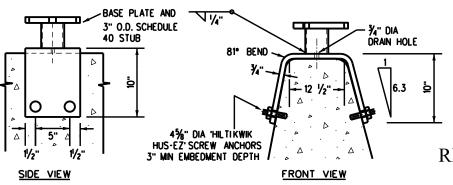




SURFACE MOUNT CASTING DETAIL (P1 & P2 POSTS)



TYPE 7 INSTALLATION

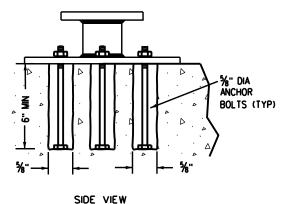


BASE PLATE FABRICATION REQUIREMENTS: BASE PLATE: 34 INCH ASTM A 36 PLATE STEEL

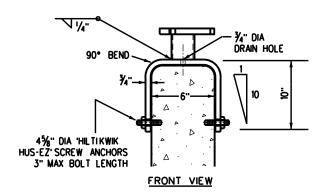
PIPE STUB: 3 INCH NOMINAL SCHEDULE 80, ASTM A 500 GR B

TOP PLATE: MUST BE COMPATIBLE WITH SLIPBASE CASTING FROM STANDARD PLAN NO. S-614-8

MEET ASTM A 123 GALVANIZING AFTER FABRICATION IS COMPLETED.



SURFACE MOUNT CASTING (P1 & P2 POSTS)



CONCRETE GLARE SCREEN INSTALLATION

SADDLE BRACKET (P1 & P2 POSTS)

RETRO-FIT CONCRETE BARRIER INSTALLATION

TYPE 9 INSTALLATION

Computer File Information		Sheet Revisions		Colorado Department of Transportation		CONCRETE BARRIER	STANDARD PLAN NO.
Creation Date: 07/04/12		Date:	Comments	2820 W Howard DI			C 614 21
Created By: Lee	R-D	09/21/20	CREATED NEW BRACKET DETAILS AND ANGLE FOR TYPE 9 BARRER	Denver, CO 80204		SIGN POST	S-614-21
Last Modification Date: 09/21/2020				Phone: 303-757-9436 FAX: 303-757-9219		INSTALLATIONS	Standard Sheet No. 2 of 2
Lost Modified By: KERSHNER	0				a H		
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	0			Traffic & Safety Engineering MKE	╸╷	Issued By: Traffic & Safety Engineering Branch July 31, 2019	Project Sheet Number: