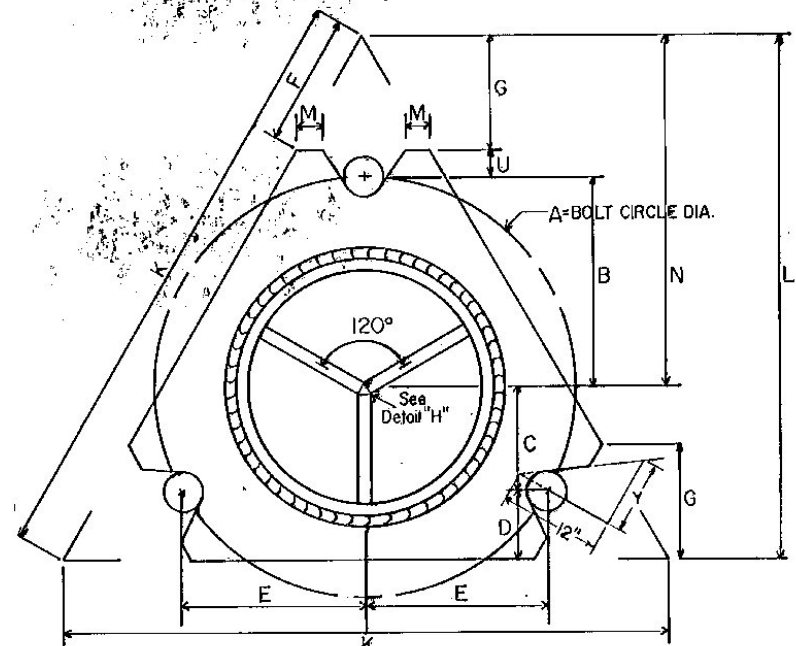


GENERAL NOTES

1. The steel pipe shall be manufactured to ASTM A501 or ASTM A53, Types B or S, Grade B and shall be galvanized as per ASTM A-153.
2. The material for the multidirectional slip base assembly shall conform to ASTM A-36 steel, and shall be galvanized as per ASTM A-153.
3. The bolts, nuts and circular washers shall conform to requirements of the current edition of the specification of the ASTM for High-Strength Carbon Steel Bolts for Structural Steel Joints, ASTM A325. All bolts, nuts and washers shall be galvanized as per ASTM A-123.
4. The installation and inspection of the bolted connection shall conform to Section 506.21 Connections using High-Strength Bolts of the Standard Specifications for Highway and Bridge Construction.

CONSTRUCTION METHOD

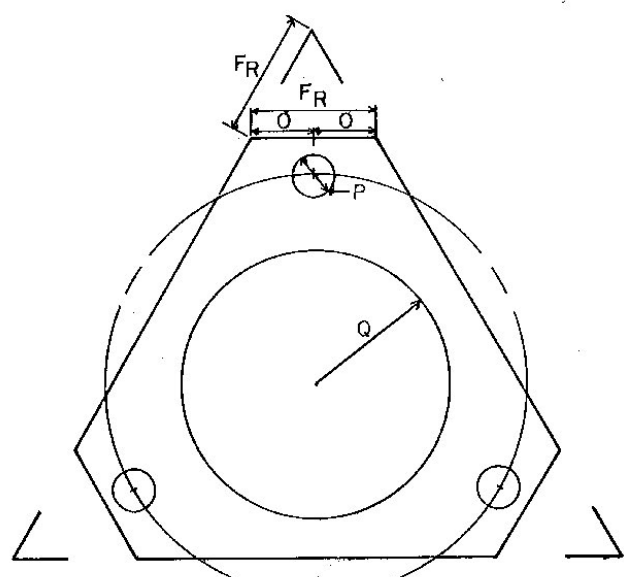
Holes for post footings may be augered or dug. If the material is firm and if all disturbed soil around the circumference of the augered hole is removed, the holes may be left with earth sides. If not, a suitable form approved by the Engineer shall be used. Corrugated metal culvert pipe or paper forms, manufactured for use as concrete column forms, will be acceptable. The stub shall be extended to the bottom of the hole and set on a concrete pad footing to support the post so the post shall be held securely in place at the bottom. This may be done by embedding the post and concrete block footing in wet concrete, and allowing to set with the post secured in position, plumbed and properly braced. The remainder of the footing may then be poured. The time between pours for the curing of the concrete shall be as determined by the Engineer. The form shall be left in place and the hole properly backfilled. No part of the form shall show above the ground line when the work is completed.



DETAILS OF MULTI-DIRECTIONAL SLIP BASE

TABLE A

DIMENSIONS NOMINAL PIPE SIZES	BOLT SIZE & TORQUE	WELD SIZE	t	Y	A	B	C	D	E	F	G	K	L	M	U	N
3" DIA.	5/8" x 3 1/4" T = 450 lbs	3/8"	5/8"	7"	7"	3 1/2"	1 3/4"	1 1/4"	3"	2 5/8"	2"	10 3/8"	9"	1 1/2"	1 1/2"	8"
3 1/2" DIA.																
4" DIA.	3/4" x 3 3/4" T = 750 lbs	7/16"	7/8"	8 3/8"	9"	4 1/2"	2 1/4"	1 1/2"	3 7/8"	2 7/8"	2 1/2"	13"	11 1/4"	5/8"	1 1/2"	7 1/2"
5" DIA.																

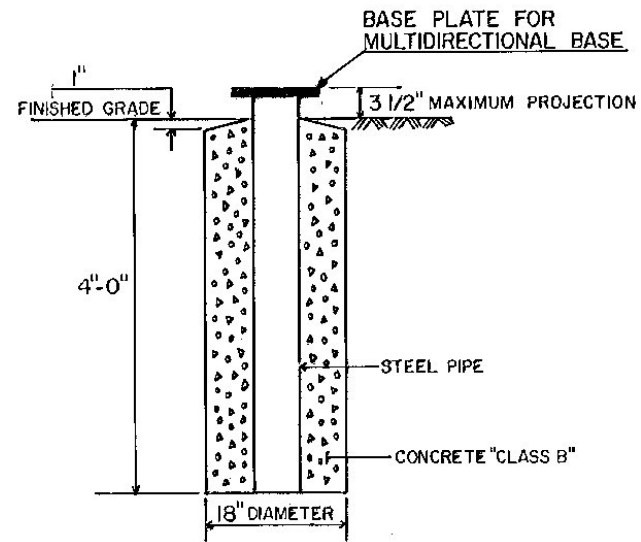


BOLT RETAINER PLATE 11 GAGE (0.1225") GALVANIZED STEEL

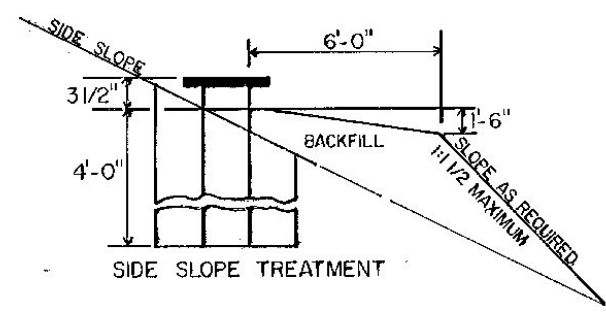
BOLT RETAINER PLATE SIMILAR IN DETAIL TO THE BASE PLATES WITH THE FOLLOWING EXCEPTIONS

DIMENSIONS NOMINAL PIPE SIZES	FR	O	P	Q
3" DIA.	2 1/8"	1 1/8"	1 1/8"	2 1/2"
3 1/2" DIA.				
4" DIA.	2 5/8"	1 5/8"	1 3/8"	2 7/8"
5" DIA.				

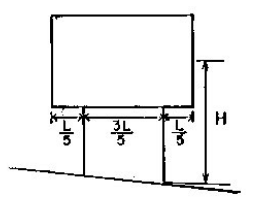
TABLE B



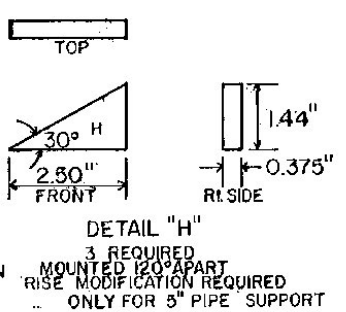
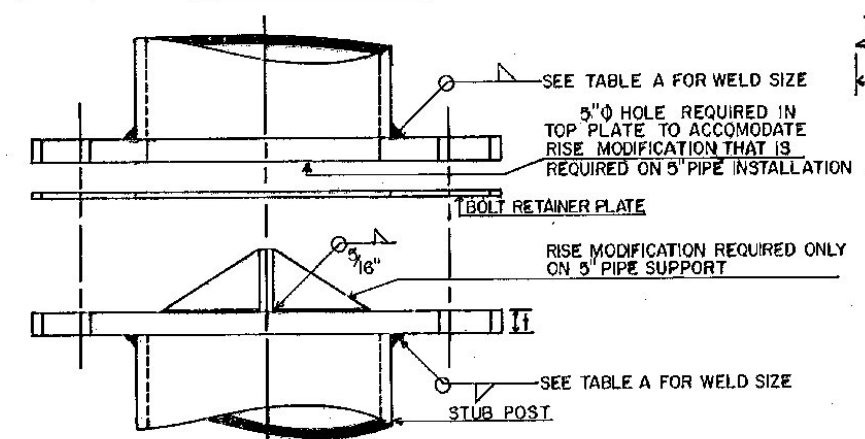
FOUNDATION DETAIL



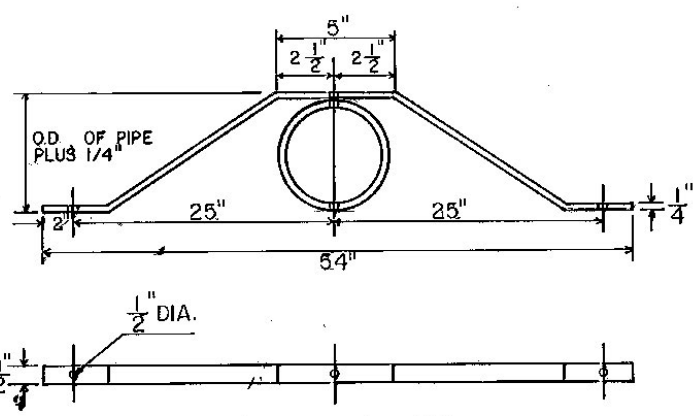
SIDE SLOPE TREATMENT



SIDE VIEW OF PIPE SUPPORT INSTALLATION



DETAIL "H" 3 REQUIRED MOUNTED 120° APART RISE MODIFICATION REQUIRED ONLY FOR 3" PIPE SUPPORT



SIGN SUPPORT BRACE

(REQUIRED WHEN INSTALLING 3 ASSEMBLY FRAME AS SHOWN ON STANDARD E-23)

POST SELECTION CHART			
SIGN AREA (FT ²) X H(FT) S _v (SELECTION VALUE)			
POST DIA INCHES	WEIGHT LB/FT	S _v	DESIGN CRITERIA
3	7.6	265	WIND SPEED=60 MPH (10-YEAR MEAN RECURRENCE INTERVAL) WIND PRESSURE=15 PSF STEEL MIN YIELD F _y =36,000 PSI ALLOWABLE STRESS=(1/4)0.55 F _y
3 1/2	9.0	368	
4	108	494	
5	146	839	

REVISIONS AND CORRECTIONS

APPROVED DATE JULY 28, 1981
 [Signature] DIRECTOR OF ENGINEERING AND CONSTRUCTION
 [Signature] CHIEF OF DESIGN
 [Signature] TRANSPORTATION DESIGN ENGINEER

MULTI DIRECTIONAL SLIP BASE SIGN SUPPORT TYPE F



STANDARD E-26