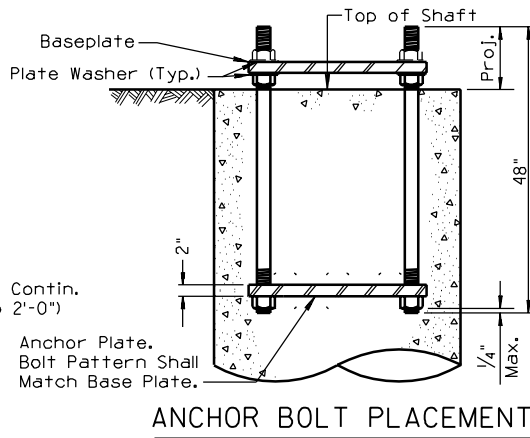


**FOUNDATION DETAIL A**



**ANCHOR BOLT PLACEMENT**

**ANCHOR BOLT PLACEMENT NOTES:**

Holes in baseplate shall match holes in anchor plate with a tolerance of 1/16". Both items should preferably be drilled together so that deviations are minimal or zero.

Nuts above and below base plate and anchor plate shall be snug tight.

Both top and bottom surfaces of base plate shall be machined to true parallel planes.

Base plate shall be set in horizontal plane with a tolerance of 1/8" in 10'-0" in two directions at right angles and shall be securely held in position during concrete placement and vibration. Final acceptance of the completed foundation shall be subject to inspection and approval of the levelness of these plates.

**GENERAL NOTES :**

Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest edition.

Design Specifications  
AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 1994 edition

All concrete shall be Class "S".

Reinforcing steel shall conform to ASTM Specification A615 (Grade 60). Structural steel shall conform to ASTM Specification A36 unless noted otherwise.

Stresses:  
Class "S" concrete f'c= 3000 psi  
Grade 60 reinforcing steel f's= 24000 psi

All bolts shall conform to ASTM Specification A325. All bolts, nuts, and washers shall be galvanized in accordance with the requirements of ASTM A153. All other steel shall be galvanized after fabrication in accordance with ASTM A123.

Welding of structural tubing shall conform to the requirements of the American Welding Society, Structural Welding Code, D1.1-80, as modified by the AASHTO Standard Specifications for Welding of Structural Steel Highway Bridges, 1981. All other welding shall conform to the requirements of the American Welding Society, ANSI/AASHTO/AWS D1.5-88, Bridge Welding Code. All welding shall be continuous unless noted otherwise. All butt welds shall be full penetration using prequalified welding procedures and shall be tested by ultrasonic testing. All butt welds shall be ground flush, full width. Grinding striations shall be parallel to length or member.

The column to base plate weld shall be tested by ultrasonic testing .

All tubular structural frame pipe (Step-Tapered) shall be seamless steel pipe and shall conform to ASTM Specification A-252, Grade 3, (latest edition).

Base plate and connection plates for Step-Tapered shall conform to the latest edition of ASTM A-36. Bell reducers shall conform to ASTM A-252 Grade 3, (latest edition) and shall produce a finished appearance, after galvanizing which matches that of the tubular structural frame pipe ("Z" Series).

All tubular structural frame pipe (Tapered) shall be seamless steel pipe and shall conform to ASTM Specification A-570, Grade 45, or A-572, Grade 42 or A-595, Grade "A" (latest edition).

Base plates and connection plates for Tapered shall conform to the latest edition of ASTM A-572, Grade 60 or 65 or ASTM A-633M, Grade "E".

All luminaire supports shown have been designed for a wind velocity of 80 mph.

Material thicknesses shown are minimum. In no case shall the pole materials submitted be less than those shown.

All poles have been designed to support two luminaire assemblies weighing not more than 90 lbs., each and having an Equivalent Projected Area (EPA) of 3.8 s.f. each.

Steel composition for tubular structural frame pipes shall have silicone content per respective ASTM Specification.

Foundation depth shown is based on the assumption that this material has a density (w) of 110 lbs./cu.ft., and an angle of internal friction of 35 degrees. If the density (w) or the angle of internal friction is less than these values, then the engineer shall be notified and the shaft depth shall be adjusted appropriately.

DESIGN APPROVED	<b>SIGNATURE</b>	ARIZONA DEPT. OF TRANSPORTATION	REV.
APPROVED FOR DISTRIBUTION		INTERMODAL TRANSPORTATION DIVISION	
	<b>ON FILE</b>	TRAFFIC SIGNALS & LIGHTING	
		STANDARD DRAWINGS	
		TYPE "U" POLE	DRAWING NO.
		FOUNDATION DETAILS	T.S. 4-18