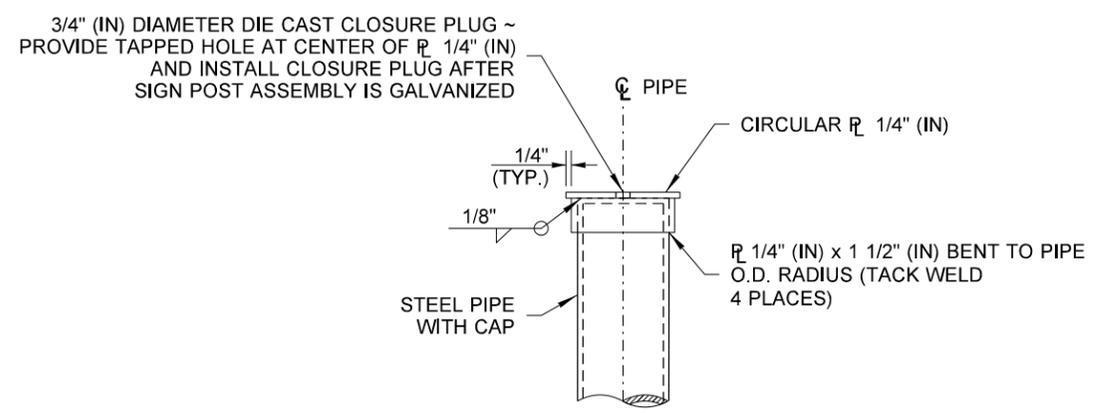
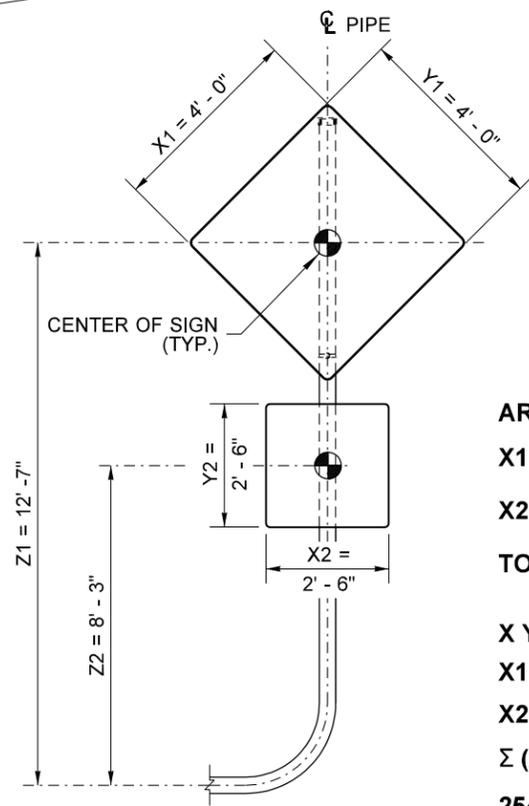


BARRIER MOUNTED ELBOW SIGN SUPPORT



PIPE CAP DETAIL



SAMPLE DESIGN CHECK CALCULATIONS
(OTHER SIGN CONFIGURATIONS OK)

AREA CALCULATIONS

$X1 \times Y1 = 4' \times 4' = 16 \text{ FT}^2$

$X2 \times Y2 = 2.5' \times 2.5' = 6.3 \text{ FT}^2$

TOTAL AREA = 16' + 6.3' = 22.3 FT²

XYZ CALCULATIONS

$X1 \times Y1 \times Z1 = 4' \times 4' \times 12.6' = 203.2 \text{ FT}^3$

$X2 \times Y2 \times Z2 = 2.5' \times 2.5' \times 8.25' = 51.6 \text{ FT}^3$

$\Sigma (XYZ) = 203.2 + 51.6 = 254.8 \text{ FT}^3$

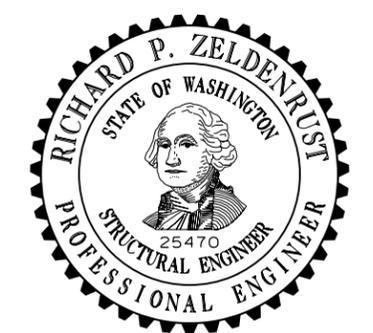
254.8 FT³ < 260 FT³ THEREFORE USE 5" STD. PIPE

NOTES

- All material and workmanship shall be in accordance with the current requirements of the Washington State Department Of Transportation **Standard Specifications for Road, Bridge, Municipal Construction and Amendments**.
- Sign support components have been designed to meet the requirements of **AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals**, dated 2015 and interim's, using basic wind speed of 115 mph, and 50 year design life.
- All non-stainless steel parts shall be galvanized in accordance with **AASHTO M111** after fabrication. Bolts and hardware shall be galvanized in accordance with **AASHTO M232**.
- Size of fillet weld shall be 1/4" (in) minimum except where noted.
- For sign bracing details, see **Standard Plan G-30.10 or G-50.10**.
- Rotate sign on post to be normal to traffic.
- No resin bonded anchors shall be nearer than 1' - 6" from a vertical expansion joint and all resin bonded anchors shall clear any embedded electrical conduit.
- Sign support shall be installed on cast-in-place concrete barriers rigidly connected to bridge or retaining wall.
- Anchors shall be bolted into reinforced concrete only with a nominal thickness no less than 9" (in). Base plate shall be installed such that full bearing contact is achieved.
- Drilling through reinforcing steel is not allowed. If steel is hit while drilling, the location shall be moved and the hole abandoned. Fill hole with grout conforming to **Standard Specification, Section 6.02.3(20)**.

PART	MATERIAL SPECIFICATION
PLATES AND BARS	ASTM A36 OR ASTM 572
PIPES	ASTM A53 GRADE B TYPE E OR S, OR EQUIVALENT HSS ASTM A500 ROUND GRADE B
RESIN BONDED ANCHORS	ASTM F1554 GRADE 55 GALV.
NUTS	ASTM A563 GRADE A
WASHERS	ASTM F436 TYPE 1
EPOXY RESIN	STD. SPEC. SECT. 9-26.1 (TYPE IV)

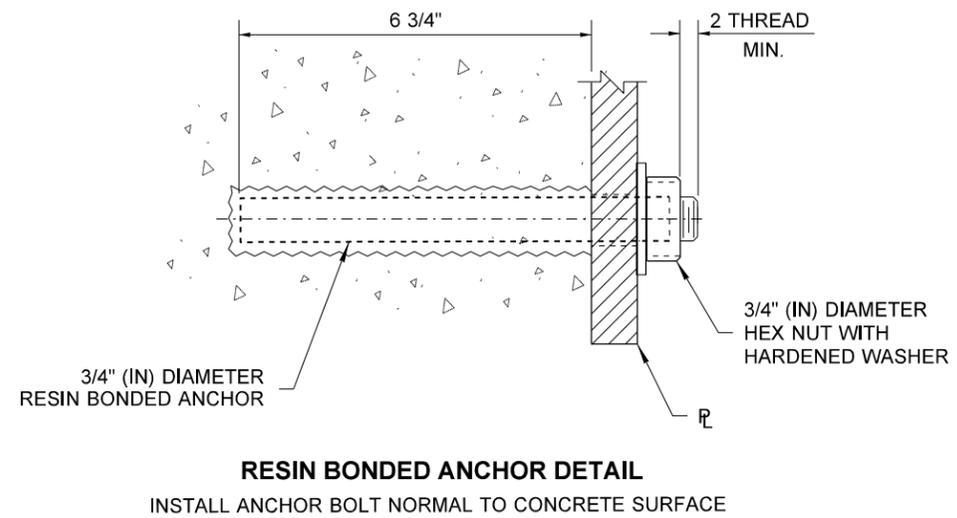
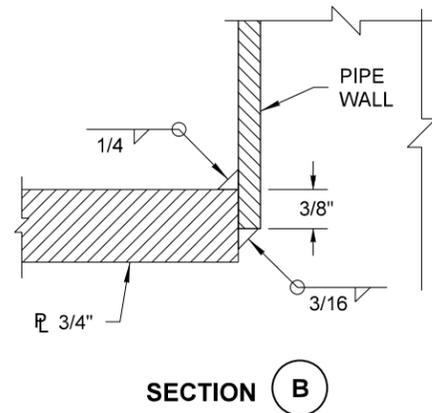
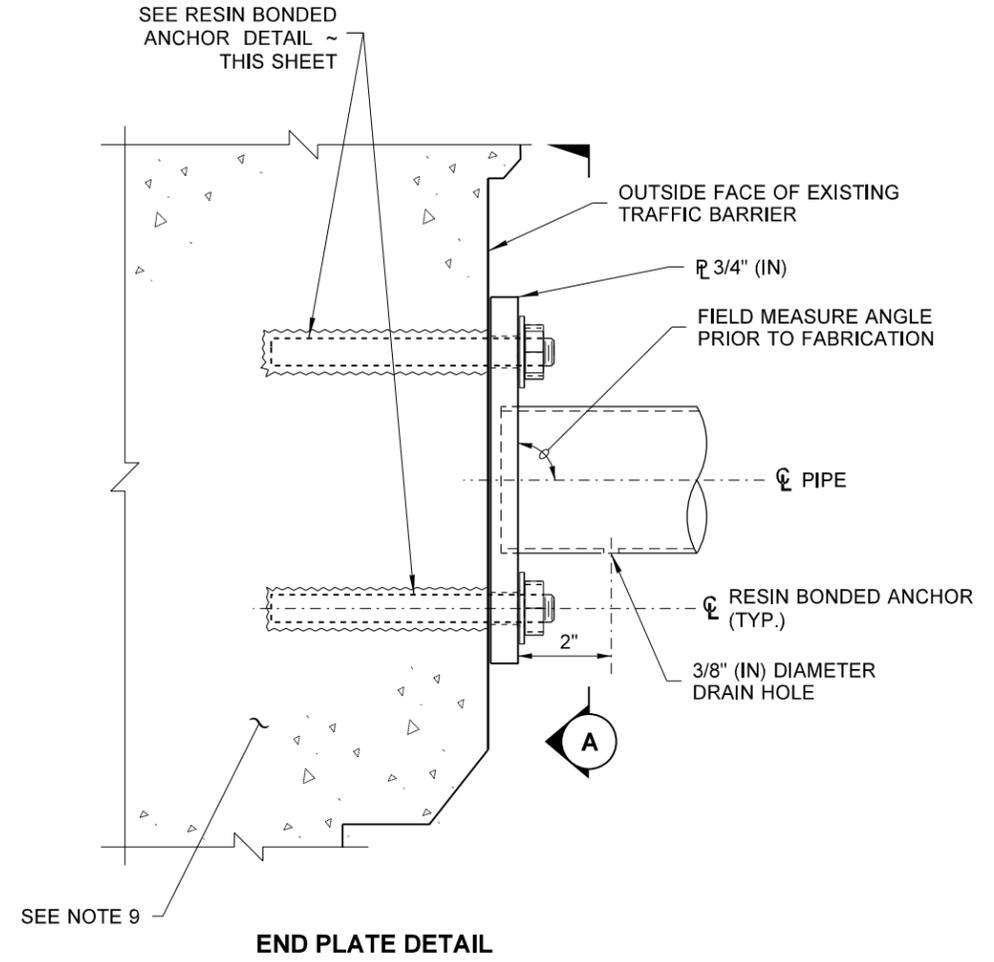
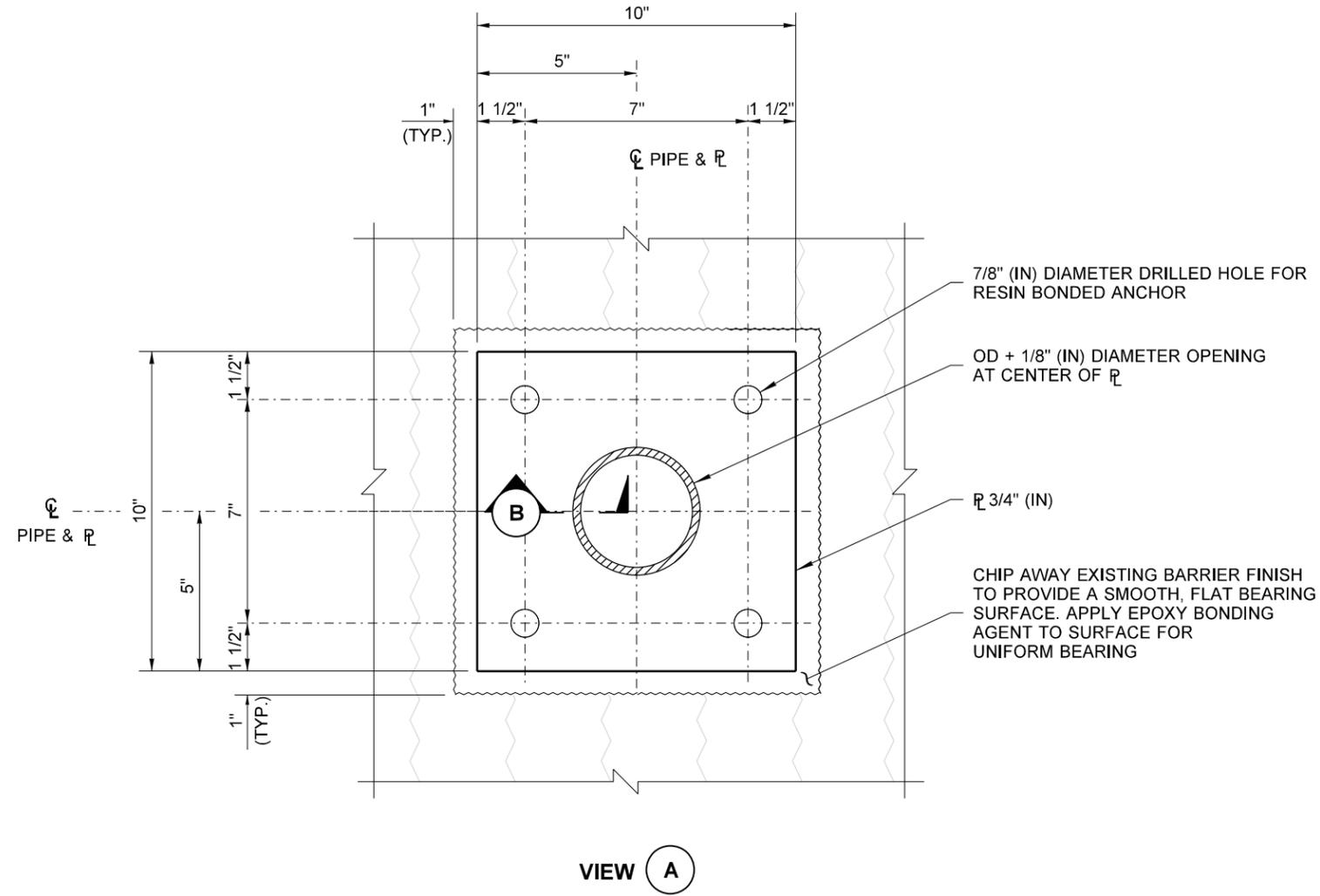
PIPE SIZE	XYZ	W
4" STD.	< 160 FT ³	< 2' - 6"
4" X-S	< 220 FT ³	< 2' - 6"
5" STD.	< 260 FT ³	< 3' - 6"



BARRIER MOUNTED ELBOW SIGN SUPPORT
STANDARD PLAN G-26.10-00

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION



**BARRIER MOUNTED
ELBOW SIGN SUPPORT
STANDARD PLAN G-26.10-00**

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION