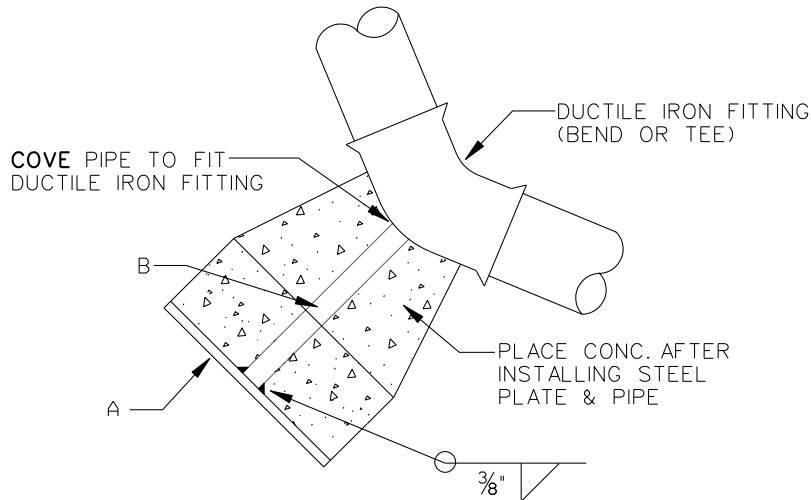


METROPOLITAN UTILITIES DISTRICT	Construction Standard	No: 1.8.12
	Immediate Support Backing Blocks (ISBB)	Page: 1 of 1
Prepared by: Bill Travnicsek		<u>Supersedes:</u> 12-15-00
Approved by: Jeff Loll		Effective: 10-19-11

GENERAL

- * The intent of this Construction Standard is to specify the materials and installation of immediate support backing blocks for common fittings on 6" - 16" diameter mains. Immediate support backing blocks shall be installed where indicated on job drawings.

**



MAIN SIZE	A ⁽¹⁾ (Plate Size)	B ⁽²⁾ (Support Pipe Size)
6 ^{''(3)}	2'x2'x1/2"	3"x2'-6" LL
8 ^{''(3)}	3'x3'x3/4"	3"x3'-6" LL
12 ^{''(3)}	4'x4'x1"	3"x4'-0" LL
16"x45°	4'x4'x1"	4"x4'-0" LL ⁽⁴⁾
16"x22-1/2°	4'x4'x1"	4"x4'-0" LL ⁽⁴⁾
16"x11-1/4°	4'x4'x1"	4"x4'-0" LL ⁽⁴⁾
16"x90°	5'-6"x5'-6"x1-1/4"	4"x4'-0" LL ⁽⁴⁾

Note 1: Steel Plates (A) shall be ASTM A36 Steel.

Note 2: Steel Pipe (B) shall be ASTM A53 Schedule 40 Steel Pipe. (SAP# 04-400-03; SAP# 04-400-04)

Note 3: 6", 8" and 12" are sized for 90° bend (worst case).

Note 4: Due to the large thrust forces in 16" diameter water mains; the Field Engineer shall contact Engineering and obtain approval/concurrence of the Design Engineer prior to installing 16" Immediate Support Backing Blocks (ISBB).

Assumption: Calculations for the above chart are based on 2000 PSF Soil Bearing Capacity (SBC) and 180 PSI Test Pressure. Differing soil conditions may apply.

* Revised Text

** Revised Drawing

*** Revised Chart and Notes



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