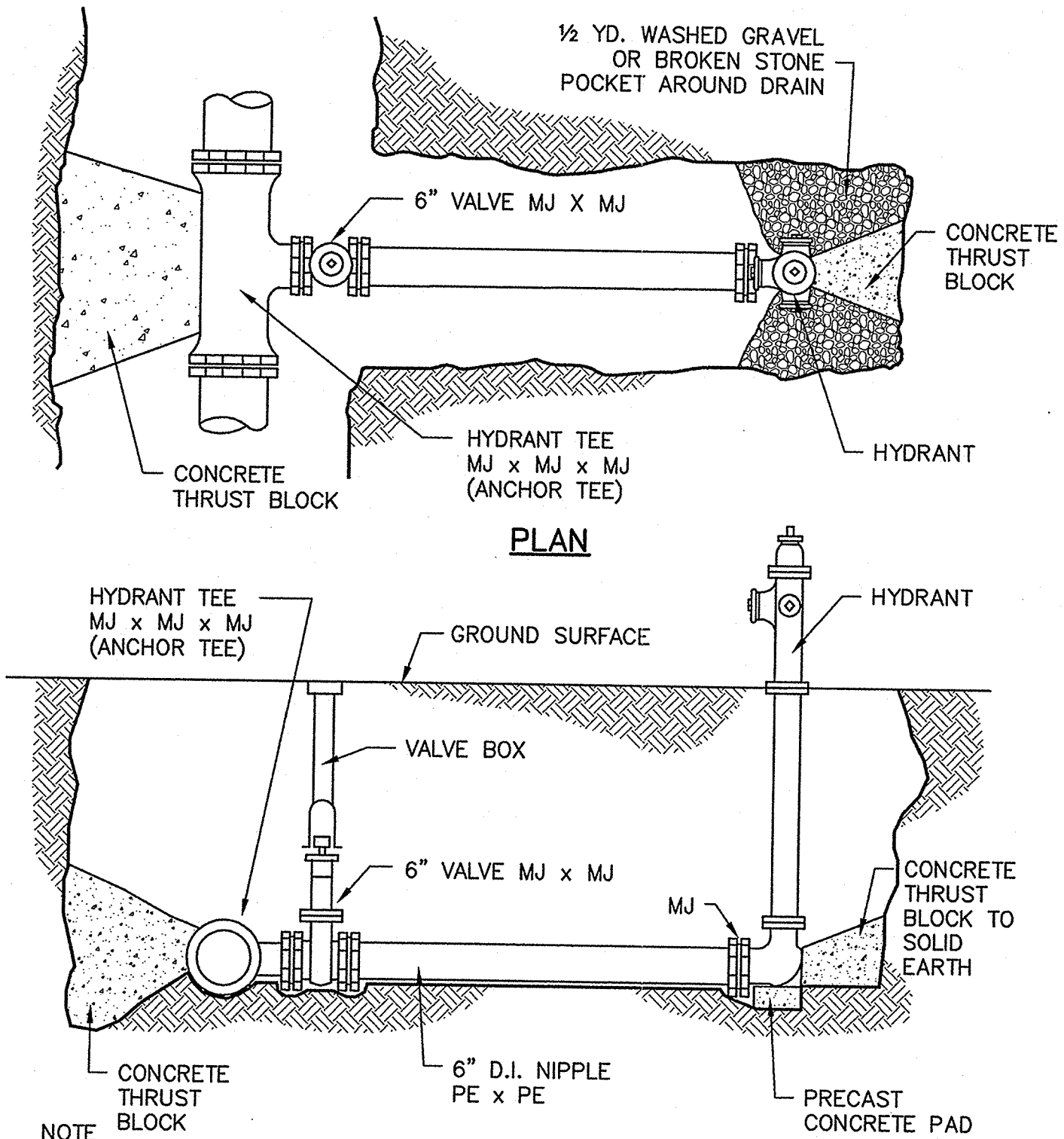


FIELD LOCK GASKETS

SIZE (IN.)	HORIZ. BEND	MINIMUM RESTRAINED LENGTH, FT.
8"	90°	28
8"	45°	12
8"	22½°	6
8"	11¼°	3
TEES		
8" x 8"		50
8" x 6"		34
CAPS		
8"		110

- NOTES:
1. MINIMUM RESTRAINED LENGTH BASED ON DIPRA, "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE", VERSION 3.3, 2003. FOLLOWING CONDITIONS APPLY:  
SOIL TYPE: SAND SILT  
MAX. PRESSURE: 150 psi  
LAYING CONDITIONS: TYPE 3  
BURIED DEPTH: 5'-6"  
FACTOR OF SAFETY: 1.50
  2. REFER TO SECTION 02514 FOR RESTRAINT SPECIFICATIONS.

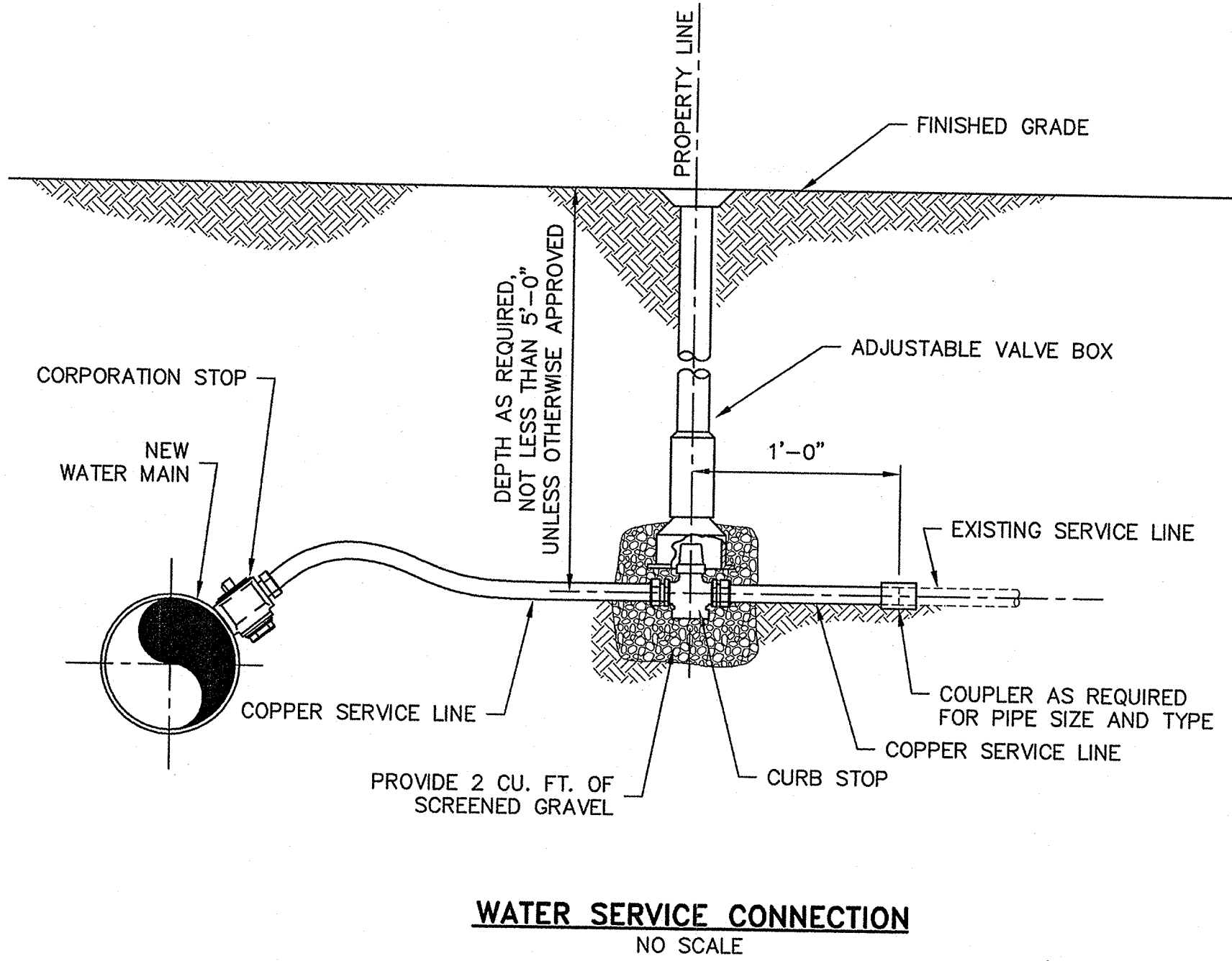
MINIMUM RESTRAINED LENGTHS FOR DI PIPE  
NO SCALE



ELEVATION

HYDRANT INSTALLATION

DETAIL	1
NO SCALE	3,4,5

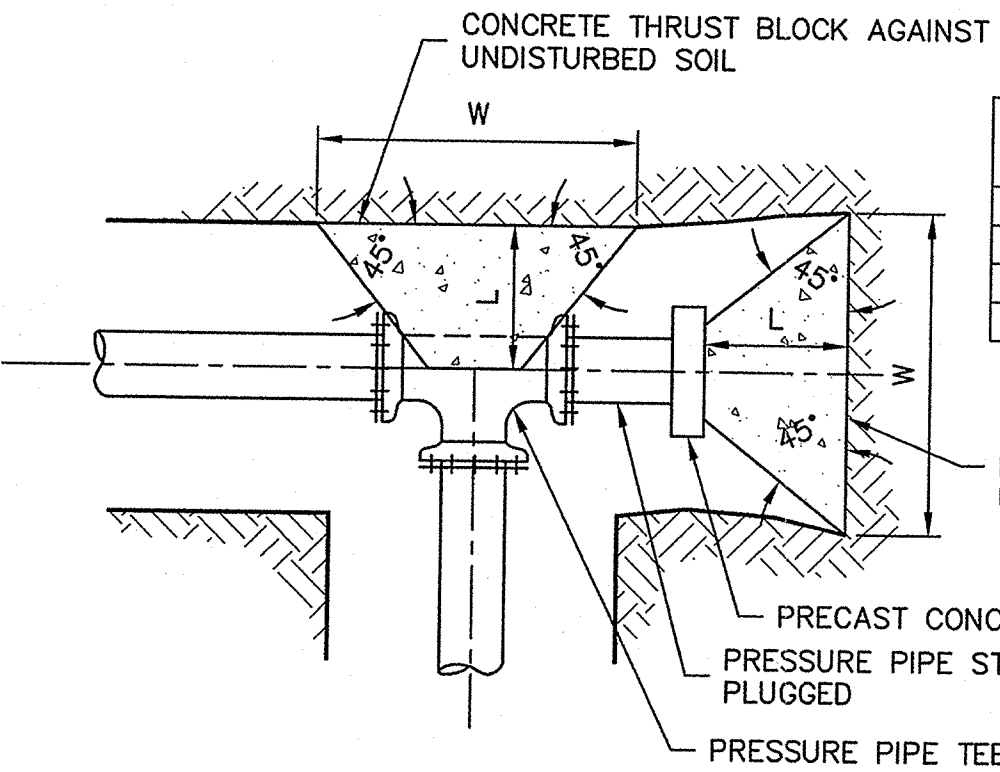


WATER SERVICE CONNECTION

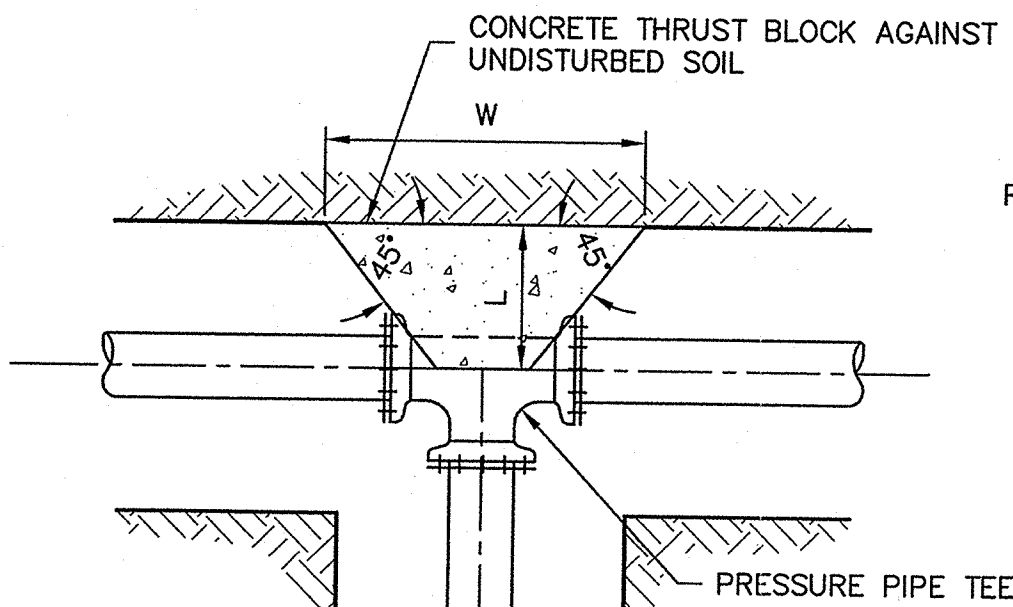
NO SCALE

RECORD PLAN

THIS RECORD PLAN WAS PREPARED BASED ON LIMITED INFORMATION GATHERED DURING CONSTRUCTION OF THE PROJECT AND INDICATES ONLY SIGNIFICANT CHANGES MADE FROM THE DESIGN PLANS DURING CONSTRUCTION.

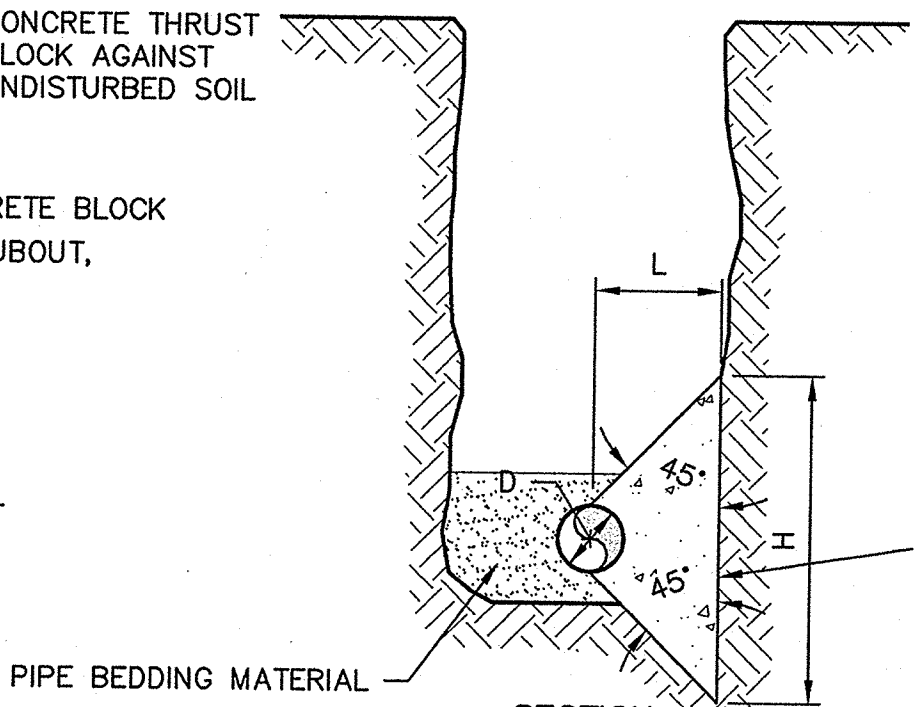


PLAN AT TEE W/STUBOUT FOR FUTURE

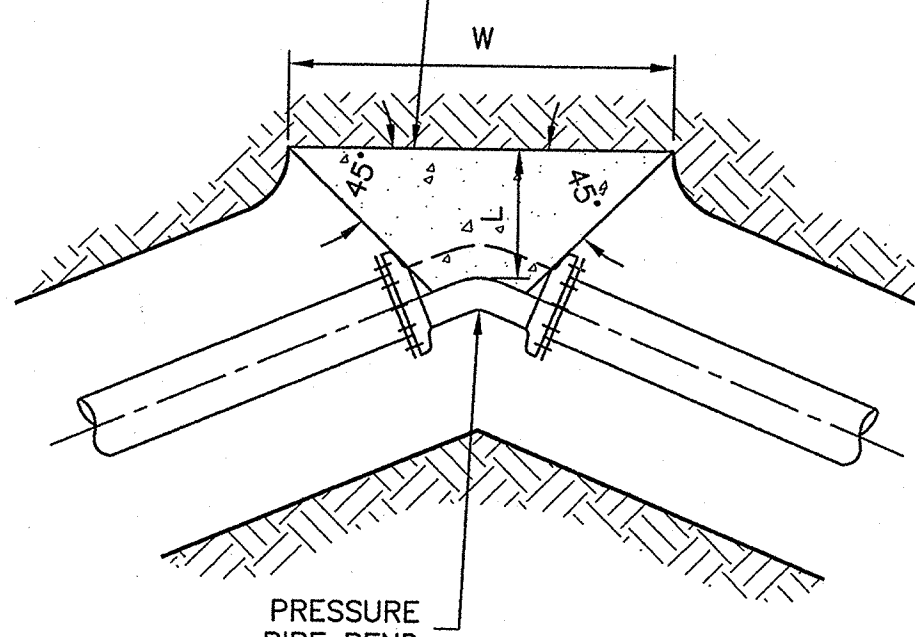


PLAN AT TEE

CONCRETE THRUSTBLOCK								
45° BEND					90° BEND			
D	BEARING AREA (S.F.)	"L"	"H"	"W"	BEARING AREA (S.F.)	"L"	"H"	"W"
≤8"	5.8	12"	24"	35"	10.7	17"	32"	48"
10"	9.0	16"	30"	43"	16.7	20"	40"	60"
12"	13.0	18"	35"	54"	24.0	24"	48"	72"
16"	23.0	24"	47"	71"	42.7	33"	64"	96"



CONCRETE THRUST BLOCK AGAINST UNDISTURBED SOIL



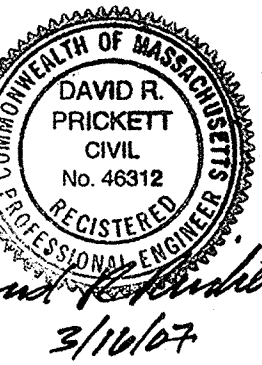
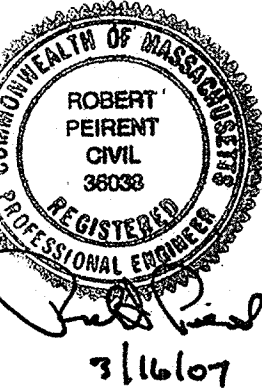
PLAN AT BEND

NOTES:

1. DIMENSIONS SHOWN CALCULATED PER 100 PSI INTERNAL PIPE PRESSURE FOR SOIL BEARING LOADS OF 1,000 PSF.
2. CONCRETE THRUST BLOCKS SHALL BE CONSTRUCTED OF CONCRETE POURED AGAINST UNDISTURBED SOIL.
3. DIMENSIONS L, W, & H MAY BE ADJUSTED TO MEET FIELD CONDITIONS PROVIDED THE BEARING AREA REMAINS UNCHANGED.
4. THE HEIGHT OF THE BLOCK (H) SHALL BE LESS THAN OR EQUAL TO HALF THE TRENCH DEPTH.
5. POLYETHYLENE SHEETING SHALL BE PLACED OVER MJ FITTINGS TO PREVENT DIRECT CONTACT BETWEEN CONCRETE AND THE FITTING.

CONCRETE THRUST BLOCK  
FOR HORIZONTAL BENDS AND TEES  
NO SCALE

**Tighe&Bond**  
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Westfield, Massachusetts  
(413) 562-1600  
www.tighebond.com



FY 2007  
Water Main  
Improvements

Town of  
East Longmeadow

East Longmeadow,  
Massachusetts

Mark	Date	Description
B	12/07	Record Plans
A	12/06	Initial Issue
Mark	Date	Description
PROJECT NO: E526/1		
FILE: SHEET6		
DRAWN BY: RFB		
CHECKED: SMS, DRP		
APPROVED BY: RP		

WATER SYSTEM DETAILS

SCALE: AS SHOWN

SHEET 6