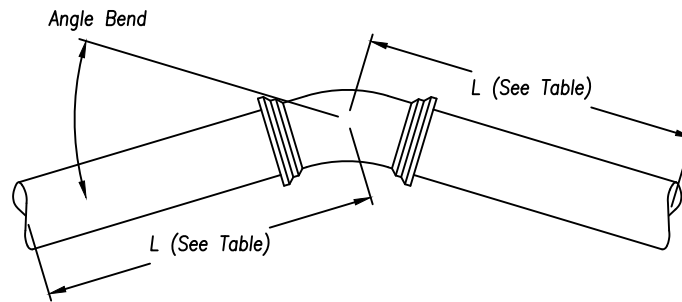


Restrained Joint Lengths

DATE: 05/04/2020

SCALE: NONE

FILE: 2020-020.DWG



		Diameter of Watermain						
		6"	8"	10"	12"	14"	16"	Larger Than 16"
Angle Bend	11-1/4'	6'	8'	9'	11'	13'	14'	By Design
	22-1/2'	11'	15'	18'	22'	25'	28'	
	45°	23'	31'	37'	44'	51'	58'	
	Tee, 90°	28'	37'	47'	66'	77'	90'	

Notes:

1. Fitting must be restrained in all cases.
2. Restraining joint systems are acceptable when designed in accordance with "Thrust Restraint Design for Ductile Iron Pipe", published by the Ductile Iron Pipe Research Association (DIPRA). Restraining glands, manufactured of ductile iron conforming to ASTM A536-84 specifications, or locking gaskets such as Field Lok, or equal, may be used.