



PIPE SIZE	BEARING AREA OF THRUST BLOCK, S.F.				
	TEES/ENDS	90°	45°	22.5°	11.25°
6"	3.0	4.0	2.5	1.5	N/A
8"	5.0	7.5	4.0	2.0	N/A
10"	8.0	11.0	6.0	3.0	1.5
12"	11.5	16.0	9.0	4.5	2.5
14"	15.5	22.0	12.0	6.0	3.0
16"	20.0	29.0	15.5	8.0	4.0
18"	25.5	36.0	19.5	10.0	5.0

NOTES:

- THRUST BLOCK SIZES ARE FOR PRESSURE CLASS 350 DUCTILE IRON PIPE TESTED AT 200 P.S.I. WITH A SOIL BEARING PRESSURE OF 2000 P.S.F..
- CLASS 420-C-2000 P.C.C. SHALL BE USED FOR THRUST BLOCKS.
- USE MEGALUG AT LATERAL/VERTICAL DIRECTION CHANGES IN ADDITION TO SPECIFIED THRUST BLOCKS. THE BLOCKING SHALL BE PLACED SO THAT THE PIPE AND FITTING JOINTS WILL BE ACCESSIBLE FOR REPAIR, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER, PER A.W.W.A. NO. M11 STEEL PIPE DESIGN MANUAL.
- ALL WATER MAINS SHALL BE 10 GAUGE WELDED STEEL OR PRESSURE CLASS 350 DUCTILE IRON, CEMENT MORTAR LINED AND COATED.
- CML/CMC SHALL BE INSTALLED IN ACCORDANCE WITH STD. DWG. 4003 (MINIMUM PIPE WELDING LENGTHS)



APPROVED BY:		24079 08/15/06	
JOHN P. SULLIVAN CITY ENGINEER		RCE	DATE
RECOMMENDED:		57875 08/14/06	
ASST. UTIL. DIRECTOR/ENG.		RCE	DATE
REV	DESCRIPTION	BY	APP'D DATE

CITY OF ONTARIO

THRUST BLOCKS

STANDARD
DRAWING
NUMBER

4004