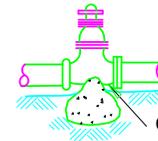


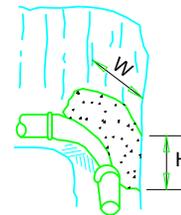
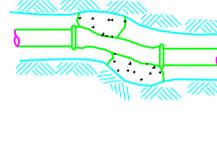
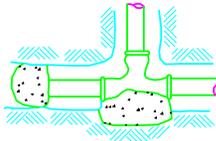
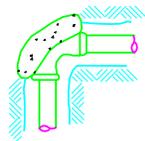
**NOTES:**

- 1 CONCRETE THRUST BLOCKS ARE TO BE POURED AGAINST UN-DISTURBED EARTH.
- 2 CONCRETE THRUST BLOCKS SHALL BE OF CLASS 'C' (4 1/2 SACK MIX) CONCRETE.
- 3 ALL GATE VALVES SHALL BE SUPPORTED PER DETAIL 'A' BELOW & STD DWG W-0150.
- 4 PLUG ALL STUBS PER SPECS.
- 5 ALL CONCRETE SHALL BE POURED TO AVOID INTERFERENCE WITH BOLTED CONNECTIONS.
- 6 WHERE PIPE CONNECTS TO A FITTING IN A STEEL PIPELINE, THE STEEL PIPELINE SHALL BE BLOCKED AS SHOWN HEREON.
- 7 CONCRETE SHALL BE CONFINED BY FORMS TO PROVIDE A MINIMUM CLEARANCE OF 4" AT FLANGE BOLTS AND NUTS.

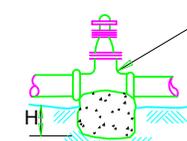
THRUST BLOCK TABLES													
PIPE SIZE IN.	TYPE OF FITTING	SAFE SOIL BEARING #/S.F.	THRUST BLOCK DIMENSIONS		SAFE SOIL BEARING #/S.F.	THRUST BLOCK DIMENSIONS		SAFE SOIL BEARING #/S.F.	THRUST BLOCK DIMENSIONS		SAFE SOIL BEARING #/S.F.	THRUST BLOCK DIMENSIONS	
			CLASS 150 HT-WIDTH	CLASS 200 HT-WIDTH		CLASS 150 HT-WIDTH	CLASS 200 HT-WIDTH		CLASS 150 HT-WIDTH	CLASS 200 HT-WIDTH		CLASS 150 HT-WIDTH	CLASS 200 HT-WIDTH
16	TEE	1500	5'x7'	6'x7'	2000	4'x7'	5'x6'	3000	4'x5'	4'x5'	5000	3'x3'	3'x4'
16	90° BEND	1500	5x10	6x10	2000	5x8	5x9	3000	4x6	5x6	5000	3x5	3x6
16	45° BEND	1500	4x7	4x8	2000	4x5	4x6	3000	3x5	4x4	5000	2x4	2x5
16	22 1/2° BEND	1500	3x5	4x4	2000	3x4	3x4	3000	2x4	3x3	5000	2x2	2x3
14	TEE	1500	4x7	4x8	2000	4x5	4x6	3000	3x5	4x4	5000	3x3	2x5
14	90° BEND	1500	5x10	5x9	2000	5x8	5x7	3000	5x5	4x6	5000	3x5	3x5
14	45° BEND	1500	4x5	4x6	2000	4x4	3x6	3000	3x4	3x4	5000	2x3	2x4
14	22 1/2° BEND	1500	3x4	3x4	2000	2x4	3x3	3000	2x3	2x6	5000	1x3	2x2
12	TEE	1500	4x5	4x6	2000	3x5	3x6	3000	3x4	3x4	5000	2x3	2x4
12	90° BEND	1500	4x7	4x8	2000	4x6	4x6	3000	3x5	4x4	5000	3x3	2x5
12	45° BEND	1500	4x4	3x6	2000	3x4	3x5	3000	2x4	3x3	5000	2x3	2x3
12	22 1/2° BEND	1500	2x4	3x3	2000	2x3	2x4	3000	2x2	2x3	5000	1x3	1x3
8	TEE	1500	3x3	2x5	2000	2x3	2x4	3000	2x3	2x3	5000	1x3	1x3
8	90° BEND	1500	3x4	3x5	2000	3x3	3x4	3000	2x3	2x4	5000	2x2	2x3
8	45° BEND	1500	2x4	2x4	2000	2x3	2x6	3000	2x2	2x2	5000	1x2	1x3
8	22 1/2° BEND	1500	2x2	2x2	2000	1x3	1x3	3000	1x2	1x2	5000	1x1	1x1
6	TEE	1500	2x3	2x3	2000	2x2	2x2	3000	1x3	1x3	5000	1x2	1x2
6	90° BEND	1500	2x4	2x4	2000	2x3	2x3	3000	2x2	2x2	5000	1x2	1x3
6	45° BEND	1500	2x2	2x2	2000	1x3	2x2	3000	1x2	1x3	5000	1x1	1x2
6	22 1/2° BEND	1500	1x2	1x2	2000	1x2	1x2	3000	1x1	1x1	5000	1x1	1x1
4	TEE	1500	1x3	1x3	2000	1x2	1x2	3000	1x2	1x2	5000	1x1	1x1
4	90° BEND	1500	2x2	2x2	2000	1x3	1x3	3000	1x2	1x2	5000	1x1	1x1
4	45° BEND	1500	1x3	1x2	2000	1x2	1x2	3000	1x1	1x1	5000	0	1x1
4	22 1/2° BEND	1500	1x1	1x1	2000	1x1	1x1	3000	0	1x1	5000	0	0



CONCRETE TO BE NO CLOSER THAN 4" TO BOLTS AND IF POSSIBLE SHALL BE FORMED.



PERSPECTIVE VIEW



NO. 3 RE-BAR (REQ. ON HUB-END VALVES ONLY)

APPLIES TO HUB-END VALVES

DETAIL 'A'

TYPICAL THRUST BLOCK INSTALLATION



APPROVED DATE: January 1, 2011

*Joseph Brandy*

DIRECTOR OF ENGINEERING

RECYCLED WATER STANDARD DRAWING  
THRUST BLOCK INSTALLATION  
CLASS 150 & 200

STD. DWG. NO.

W-1230