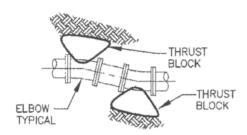
## **SECTION 103.00**

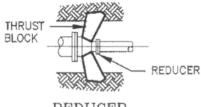
## THRUST BLOCK AND ANCHOR DETAILS

ANCHOR BLOCK CENTERED UNDER BEND

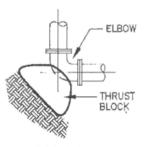


45° BEND

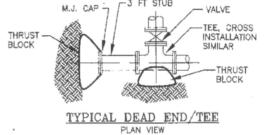








90° BEND PLAN VIEW



PROFILE VIEW

(TO PREVENT UPLIFT)

2 EA .- ANCHOR RODS.

(3" MIN. CLEARANCE TYP.)

MIN. 6" HOOK (TYP.)

ANCHOR BLOCK SCHEDULE ANCHOR ROD MINIMUM VOLUME (CY) PIPE DIA. DIA. (IN) (N) 22-1/2" BEND 45 BEND 11-1/4" BEND 4 ₹ 0.3 3/2 0.7 0,4 0.2 6 8 5/8 1.0 0.6 0.3 10 5/8 1.7 0.9 0,4 12 34 2.2 1.2 0.7

(ALLOWING FOR FUTURE EXTENSION)

			THE	UST	BLOCK SC	HED	ULE			
PIPE DIA.	REDUCERS, DEAD END TEES, WYES, & VALVES		90 · BEND		45- BEND		22-1/2" BEND		11-1/4" BEND	
(IN)	BEARING AREA	CY	BEARING AREA	CY	BEARING AREA	CY	BEARING AREA	CY	BEARING AREA	CY
4	1.5' x 2'	0.2	2' x 2'	0,3	1' x 2'	0.2	1' x 1'	0.1	1' x 1'	0.1
6	2' x 3'	0.4	3' x 3'	0.7	2' x 2.5'	0.4	1.5' x 1.5'	0.2	1· x 1.5'	0,1
8	3' x 3.5'	0.8	3,5' x 4'	1.0	2.5' x 3'	0,6	2' x 2'	0.3	2' x 1·	0.2
10	4' x 4'	1.2	4,5' x 5'	1.7	3' x 4'	0,9	2' x 3'	0.4	1.5' x 2'	0.2
12	4.5' x 4.5'	1.5	5.5' x 5.5'	2.2	4' x 4'	1.2	3' x 3'	0.7	2' x 2'	0.3

## NOTES:

- 1. All concrete shall be per Section 100.01.
- 2. Thrust blocks shall be constructed so that major bearing surface is in direct line with the major force created by the pipe or fittings. The bearing surface shall be placed against undistributed earth.

Section 103.00 - Thrust Block and Anchor Details

August 19, 2020 Centerville CSD

Approved:

District Manager

- 3. Thrust block sizes are based on an assumed soil bearing capacity. Should actual soils conditions reveal a potentially lower bearing capacity, thrust block sizes may need to increase at the direction of the District.
- 4. Thrust and anchor block configurations other than those shown on this page shall be engineered.
- 5. All thrust blocks for pipes larger than 12" shall be engineered.
- 6. A double layer of 6 mil polyethylene film shall be placed between concrete and fittings.
- 7. Concrete shall be kept behind the bell of the fitting.
- 8. Fittings shall not be rendered inaccessible by the concrete. Clearance shall be provided for bolt removal.

Section 103.00 - Thrust Block and Anchor Details August 19, 2020

Centerville CSD

Approved

District Manager