



VERTICAL THRUST BLOCK TABLE

△ →	11.25'		22.50'		30.00'		45.00'		67.50'		90.00'		← △
I.D. (IN.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	I.D. (IN.)
4,6,8	1.0	0.5	2.0	1.0	2.5	1.3	3.6	1.8	4.6	2.3	5.0	2.5	4,6,8
10,12	2.2	1.1	4.3	2.2	5.7	2.8	8.0	4.0	10.5	5.2	11.3	5.7	10,12

NOTES:

1. WRAP ALL BELOW GROUND IRON ASSEMBLIES IN POLYETHYLENE ACCORDING TO AWWA C105.
2. ALL TEES, BENDS, PLUGS, ETC. SHALL BE MECHANICALLY RESTRAINED BY MEGALUG OR APPROVED EQUAL.
3. ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 PSI FOR 24" I.D. PIPE AND SMALLER, AND 150 PSI ON 30" I.D. AND LARGER
4. VOLUMES OF VERTICAL BEND THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THRUST ON THE VERTICAL BEND.
5. WALL THICKNESS (T) IS ASSUMED HERE FOR ESTIMATING PURPOSES ONLY.
6. CONCRETE FOR BLOCKING SHALL BE 2000 PSI @ 28 DAYS.
7. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.

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SCALE: N.T.S.



WATER CONSTRUCTION DETAILS
VERTICAL THRUST BLOCKING

REVISION DATE:
2/1/2024

SHEET: W-08