

TYPICAL THRUST BLOCKING DETAILS

## NOTES:

Valve Box.

AT UNPAVED AREAS

If Valve Operating Nut Is More

Provide Extension Stem to 1'

Below Pavement Surface.

Than 3' Below Pavement Surface,

-Gate Valve

TYPICAL GATE VALVE AND BOX

EXTENSION STEM DETAIL
Not To Scale

3 Mil Polyvinyl Sht. 1500# Conc. Blocking

AT PAVED AREAS

3M EMS Blue Disk-

- The earth bearing surface shall be undisturbed material. Keep all joints free from concrete. Thrust block to be constructed of 1,500 P.S.I. (20 day) concrete and placed as shown on "Typical Blocking Details" above.
- 2. It shall be the responsibility of the contractor to install adequate thrust blocking. The HORIZONTAL BLOCKING TABLE shows the minimum thrust blocking area required (in square feet) bearing against undisturbed trench wall.
- 3. All fittings shall be blocked regardless of the angle or direction, except as noted in the chart.
- 4. Soil bearing strength is assumed. To be 2,000 P.S.F. site conditions may vary which will require modifications to the blocking calculations.

## HORIZONTAL BLOCKING TABLE

AREA REQUIRED (IN SQUARE FEET) BEARING AGAINST UNDISTURBED TRENCH WALL

(POUNDS)				BLOCKING (SQUARE FEET)					
AND TEE	DEAD END AND TEE	90°	45° BEND	22-1/2° BEND	11-1/4° BEND	5° DEFLE			
2,450	1.23	1.73	0.94	0.50	0.50	0.50			
5,513	2.76	3.90	2.11	1.08	0.54	0.50			
					for Allegation Reports For the State of				
9,802	4.90	6.93	3.75	1.91	0.96	0.50			
15,315	7.66	10.83	5.86	2.99	1.50	0.67			
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22,054	11.03	15.59	8.43	4.30	2.16	0.96			
	2,450 5,513 9,802 15,315 22,054	2,450 1.23 5,513 2.76 9,802 4.90 15,315 7.66 22,054 11.03	2,450     1.23     1.73       5,513     2.76     3.90       9,802     4.90     6.93       15,315     7.66     10.83       22,054     11.03     15.59	2,450     1.23     1.73     0.94       5,513     2.76     3.90     2.11       9,802     4.90     6.93     3.75       15,315     7.66     10.83     5.86       22,054     11.03     15.59     8.43	2,450     1.23     1.73     0.94     0.50       5,513     2.76     3.90     2.11     1.08       9,802     4.90     6.93     3.75     1.91       15,315     7.66     10.83     5.86     2.99       22,054     11.03     15.59     8.43     4.30	2,450     1.23     1.73     0.94     0.50     0.50       5,513     2.76     3.90     2.11     1.08     0.54       9,802     4.90     6.93     3.75     1.91     0.96       15,315     7.66     10.83     5.86     2.99     1.50			

(150 P.S.I. WORKING PRESSURE PLUS 30% FOR WATER HAMMER.)

PIPE EMBEDMENT DETAIL

REVISION W.L.D.

SEAL APPEAR UMENT WAS / DOUPHRATE 60102 ON

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CHECKED K.E.B. DRAWN 2/02/00

DATE 9965DET1 PROJECT