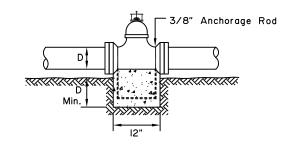
SHEET | of |

THRUST BLOCK MINIMUM SIZE TABLE							
For Bends Greater Than 45°, Tee Branches & Crosses							
Pipe	Water Pressure in Pipe (P.S.I.)						
Diam. (In.)	50		150		250		
	Bearing Area (Sq. Ft.)	Concrete Volume (Cu. Ft.)	Bearing Area (Sq. Ft.)	Concrete Volume (Cu. Ft.)	Bearing Area (Sq. Ft.)	Concrete Volume (Cu. Ft.)	
2	0.5	0.5	0.8	1.0	1.0	1.3	
3	0.6	0.8	1.0	1.3	1.1	1.5	
4	0.8	1.0	1.6	3.1	1.5	3.0	
6	1.0	1.3	1.9	4.0	3.2	7.0	
8	1.1	1.5	3.2	7.0	5.4	II.O	
10	1.7	3.2	4.9	10.0	8.3	19.0	
12	2.4	5.2	7.1	17.0	11.8	24.3	
14	3.2	7.0	9.8	21.0	16.1	32.0	
16	4.1	8.0	12.3	25.0	20.5	40.0	
18	5.4	II.O	16.2	32.0	27.1	50.0	
20	6.8	15.0	20.6	40.0	34.4	70.0	
24	8.2	19.0	25.3	50.0	42.0	80.0	

For Bends 45° or Less						
2	0.5	0.5	0.5	0.5	0.6	0.8
3	0.5	0.5	0.7	0.9	0.8	1.0
4	0.5	0.5	0.9	1.1	1.0	1.5
6	0.6	0.8	1.2	2.0	1.7	3.2
8	8.0	1.0	1.8	3.6	2.9	6.0
10	1.0	1.3	2.7	5.8	4.5	9.0
12	1.3	2.5	3.8	7.5	6.4	14.0
14	1.7	3.2	5.2	II.O	8.6	19.0
16	2.2	4.5	6.7	15.0	II.2	24.0
18	2.8	5.9	8.5	19.0	14.1	30.0
20	3.5	7.0	10.5	22.2	17.5	35.0
24	4.2	8.0	12.8	26.0	21.5	40.0

VALVES REQUIR	ING ANCHORAGE
WORKING PRESSURE (P.S.I.)	VALVES REQUIRING ANCHORAGE
50 - 100	I2 Inch and up
101 - 150	8 Inch and up
151 - 200	All Sizes

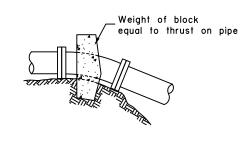
AGE		PER DEGREE DEFLECTION AT 100 P.S.I. WATER PRESSURE					
EQUIRING PAGE	PIPE SIZE	THRUST (LB.)	PIPE SIZE	THRUST (LB.)			
l up	4"	35	10"	197			
up	6"	72	12"	278			
:s	8"	122	14"	377			
			16"	486			



ANCHORAGE OF VALVES

Undisturbed Trench Wall

Continued Pipe



THRUST AT VERTICAL BEND

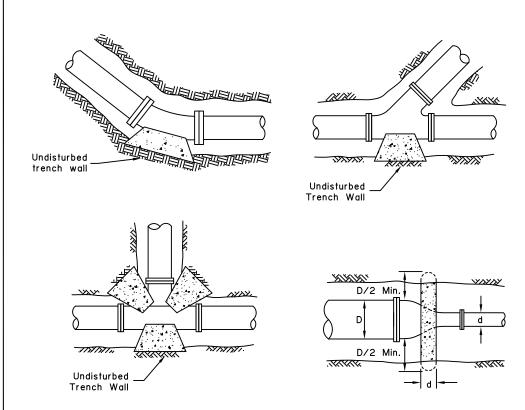
VERTICAL BENDS

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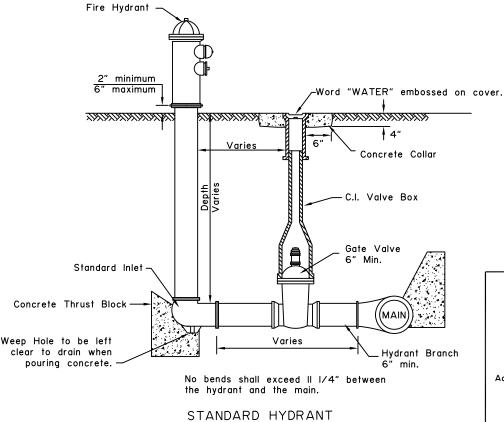
— Undisturbed Trench Wall 一

GENERAL NOTES:

- Thrust blocks are to be concrete poured in place between the fitting and undisturbed trench wall.
- 2. Concrete shall be kept centered behind bell of fitting and not obstructing
- 3. Thrust blocks are required whenever pipe-line changes direction, changes size, dead ends, or develops thrust at valves.
- 4. Material, behind the thrust blocks, deemed unsuitable by the engineer shall be removed and replaced as directed by the engineer.
- 5. In impervious soils, a hole shall be dug beneath the hydrant thrust block tp a minimum volume of 7 cubic feet. The hole shall be filled with porous backfill material.
- 6. Refer to AWWA C600-64 Section II for placement of hydrant
- 7. Orient hydrant with nozzles facing street.



PLACEMENT OF THRUST BLOCKS



State of Alaska DOT&PF ALASKA STANDARD PLAN

THRUST BLOCKS

Adopted as an Alaska

Adoption Date: 02/08/2019

Last Code and Stds. Review

Next Code and Standards Review date: 02/08/2029