



THRUST BLOCK SURFACE AREA (SF) AGAINST UNDISTURBED SOIL (X x Y)=(SF)

FITTING SIZE	11.25° BEND (SF)	22.5° BEND (SF)	45° BEND (SF)	90° BEND (SF)	TEE OR DEAD END (SF)
3"	0.35	0.66	1.29	2.35	1.67
4"	0.56	1.08	2.12	3.87	2.75
6"	1.21	2.33	4.58	8.37	5.94

GENERAL NOTES:

1. INSTALL AND TEST MAINLINE ACCORDING TO MANUFACTURER'S INSTALLATION SPECIFICATIONS.
2. REFER TO SPECIFICATIONS FOR TRENCH DEPTHS.
3. USE NO. 4 REBAR WITH MASTIC COATING WHERE PIPE MUST BE ANCHORED TO THRUST BLOCK.
4. INSTALL THRUST BLOCK SO THE HORIZONTAL (X) AND VERTICAL (Y) DIMENSIONS OF THE THRUST BLOCK ARE APPROXIMATELY EQUAL.
5. INSTALL THRUST BLOCK WITH A MINIMUM THICKNESS FROM THE PIPE TO THE UNDISTURBED SOIL OF TWO TIMES THE DIAMETER OF THE PIPE.
6. THRUST BLOCK SIZING ASSUMES A MAXIMUM OPERATING PRESSURE OF 140 PSI, A MAXIMUM VELOCITY OF 5 FEET PER SECOND, AND A SOIL BEARING CAPACITY OF 1,000 LBS/FT².

Colorado State University FACILITIES PLANNING, DESIGN AND CONSTRUCTION STANDARDS	DRAWING: L-23
	EXTERIOR IMP. DIV. 32
DATE: 03/22/2021	
THRUST BLOCK	