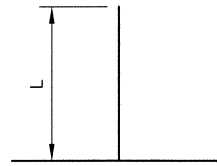
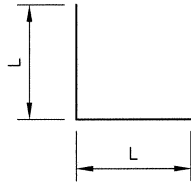


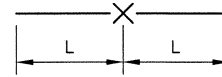
DEAD END



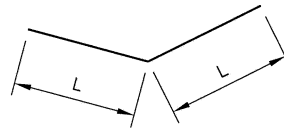
TEE



90° BEND



VALVE



BENDS

LENGTH OF RESTRAINED PIPE

NOMINAL PIPE Ø	FITTING				
	90° BEND, TEE, DEAD END	VALVE	45° BEND	22 1/2° BEND	11 1/4° BEND
4"	30'	30'	9'	2'	1'
6"	46'	46'	13'	3'	1'
8"	61'	61'	18'	5'	1'
12"	90'	90'	26'	7'	2'
16"	116'	116'	34'	9'	2'
20"	141'	141'	41'	11'	3'

NOTES:

1. LENGTH OF RESTRAINED PIPE IS MEASURED DISTANCE EACH WAY FROM VALVES AND BENDS.
2. MINIMUM 4- FEET 6- INCH BURY DEPTH REQUIRED.
3. BASED ON 150 POUNDS PER SQUARE INCH WORKING PRESSURE.
4. CROSSES SHALL BE RESTRAINED IN ALL DIRECTIONS.
5. WHEN REDUCERS ARE USED ON A VALVE INSTALLATION THE LENGTH OF RESTRAINT SHALL BE BASED ON THE SIZE OF THE PIPE NOT THE SIZE OF THE VALVE.



LENGTH OF RESTRAINED PIPE

Scale: NONE Date: May 2018

Drawn: RLB Ck: K ROSS

Approved: [Signature] Dr. 127 No. 35