

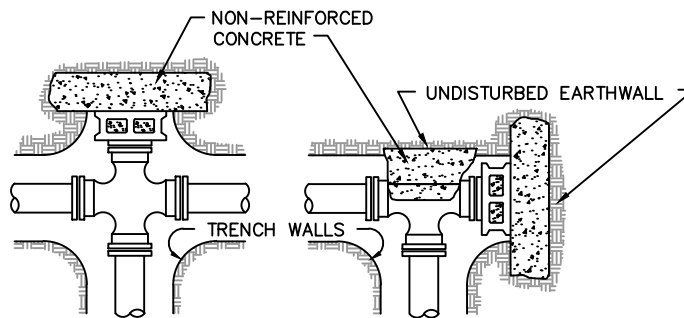
CROSS

TEE

90° BEND

45° BEND SIMILAR

22 1/2° BEND SIMILAR



CROSS W/PLUG

TEE W/PLUG

NOTES:

1. ALL FITTINGS SHALL BE MECHANICAL JOINTS, UNLESS OTHERWISE SPECIFIED.
2. DO NOT COVER BELLS OR FLANGES WITH CONCRETE.
3. WRAP ALL FITTINGS WITH POLYETHYLENE AS SPECIFIED.
4. BACK ALL TEES ACCORDING TO SIZE OF BRANCH.
5. BACKING FOR FUTURE LINE EXTENSIONS SHALL BE SUCH THAT REMOVAL OF BACKING IS POSSIBLE IN THE FUTURE.
6. ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL AND VERTICAL, SHALL BE BACKED.
7. THE REACTION BACKING TABLE IS BASED ON 150 PSI AND A SOIL BEARING PRESSURE OF 2,500 LB/SQ FT. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS DIRECTED BY THE ENGINEER.

REACTION BACKING TABLE				
SIZE	REQUIRED SQ. FT. OF UNDISTURBED EARTH WALL FOR REACTION BACKING			
	TYPE OF FITTINGS			
	TEE	90°	45°	22 1/2°
2"	1	1	1	1
3"	1	1	1	1
4"	1	2	1	1
6"	3	3	2	1
8"	4	4	3	2
10"	7	7	4	2
12"	10	10	5	3
14"	13	13	7	4
16"	17	17	9	5
18"	21	21	12	6
20"	26	26	14	7
24"	38	38	20	10
30"	59	59	32	16
36"	85	85	46	23

REACTION BACKING

N.T.S.



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STANDARD DETAILS
FOR
WATER AND SEWER CONSTRUCTION

DRAWN BY: KMI/JNK

DRAWING NO: S-3

DATE: MARCH 2008