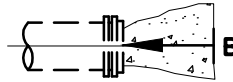
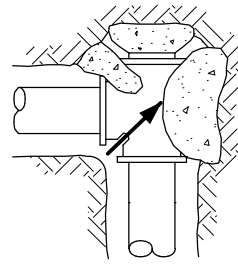


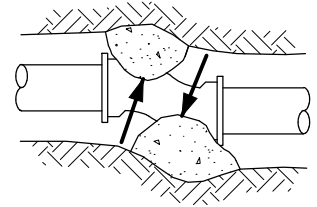
90° BEND



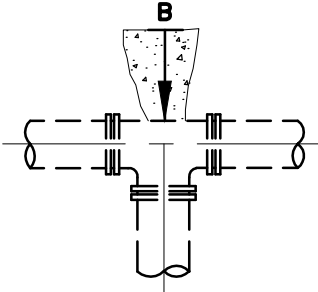
CAP



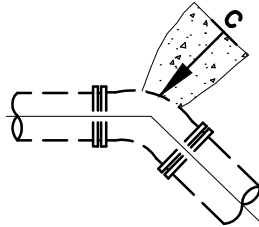
PLUGGED TEE



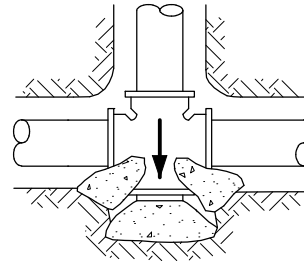
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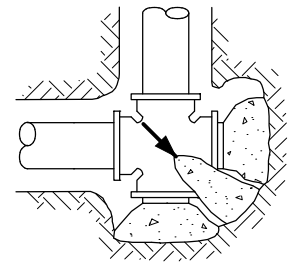
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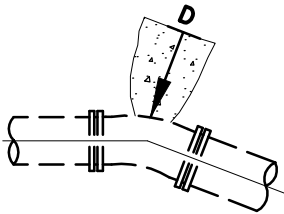
45° BEND



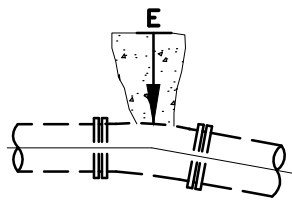
PLUGGED CROSS



PLUGGED CROSS



22 1/2° BEND



11 1/2° BEND

NOTES:

1. BEARING AREA CONCRETE THRUST-BLOCK BASED ON 200 PSI PRESSURE AND SAFE SOIL BEARING LOAD OF 2000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER SIZE PIPE, PRESSURES & SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE & HAVE MINIMUM OF 1-1/4 SQUARE FOOT BEARING AGAINST THE FITTING AND BE Poured AGAINST FIRM UNDISTURBED SOIL.
4. BLOCK SHALL BEAR AGAINST FITTINGS ONLY & SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING JOINT.
5. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
6. CONTRACTOR TO PROVIDE 4 MIL MIN. THICKNESS POLYETHYLENE SHEET BETWEEN CONCRETE BLOCK AND FITTING.
7. ALL CONCRETE SHALL BE 2500 PSI.

NOTES:

ADDITIONAL BLOCKING MUST BE PROVIDED IF GATE VALVE IS AT END OF LINE DURING TESTING.

THRUST BLOCK – TABLE						
MINIMUM BEARING AREA AGAINST UNDISTURBED SOIL SQUARE FEET						
PIPE SIZE	A	B	C	D	E	X (100 PSI)
4"	3	2	2	2	2	NONE
6"	4	4	2	2	2	NONE
8"	7	6	4	2	2	4
10"	11	10	6	3	2	6
12"	16	14	9	5	3	9
14"	22	19	12	6	3	12
16"	29	25	16	8	4	16
18"	36	31	20	10	5	20
20"	45	39	24	13	6	24
24"	64	56	35	18	9	35

11130 NE 33rd Place,
Bellevue WA 98004
phone: (425) 869-9448

HORIZONTAL CONCRETE BLOCKING

PLOTTING DATE JAN 2016	DRAWN QD	CHECKED SS	APPROVED	DATE APPROVED
SCALE NTS	FILE NAME R:\cad\detail\autocad\WD90\WATER\1-1_horiz_blocking.dwg			

WATER DISTRICT NO. 90

DWG. NO. **1-1**