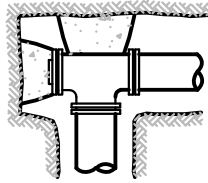
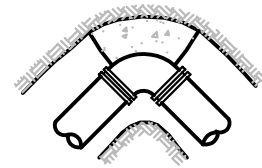


STEEL PLATE.
FORM TO ALLOW
FOR BOLT
REMOVAL

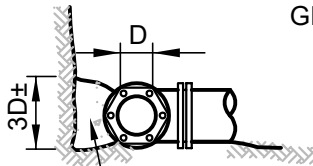
CROSS WITH PLUG



PLUGGED TEE



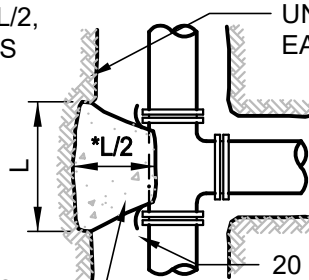
HORIZONTAL BEND



3000 PSI CONCRETE
FORMED TO ALLOW FOR
REMOVAL OF BOLTS

ELEVATION

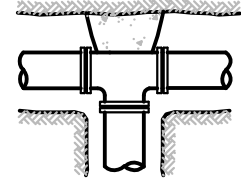
* USE 12" OR L/2,
WHICHEVER IS
GREATER.



UNDISTURBED
EARTH

20 LB. BUILDING
PAPER OR 4 MIL
POLY (TYP)

PLAN



TEE

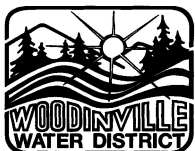
THRUST BLOCK TABLE

PIPE SIZE	TEE OR END PLUG	90°	45°	22 1/2°	11 1/4°
4" OR 6"	3	4	2	2	2
8"	6	7	4	2	2
10" OR 12"	12	16	9	5	3
16"	21	29	16	8	4

MINIMUM BEARING AREA AGAINST UNDISTURBED EARTH (SQURE FEET)

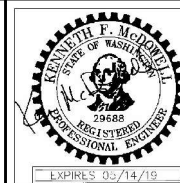
NOTES:

1. BEARING AREA OF CONC. THRUST BLOCK BASED ON 200 PSI PRESSURE AND SOIL BEARING LOAD OF 2000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER SIZE PIPES, PRESSURES, AND SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE A MINIMUM OF 1/2 SQUARE FOOT BEARING AGAINST THE FITTING. SIDES SHALL BE FORMED WITH PLYWOOD OR EQUIVALENT.
4. THRUST BLOCK SHALL BEAR AGAINST FITTING ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT DISMANTLING OF THE JOINTS.
5. CONCRETE TO BE 3000 PSI MINIMUM. PRE-MIX CONCRETE IS PREFERRED. IF CONCRETE IS HAND MIXED THE PROPORTIONS SHALL BE ACCORDANCE WITH THE SPECIFICATIONS. COMPRESSIVE TESTS OF "HAND-MIXED" CONCRETE MAY BE REQUIRED. PRE-INSPECTIONS OF BLOCKING AREA REQUIRED PRIOR TO PLACEMENT OF CONCRETE.
6. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
7. SEE STANDARD PLAN NO. 2 FOR PIPE AND FITTING RESTRAINT REQUIREMENTS.
8. INSPECTION REQUIRED PRIOR TO BACKFILL.



**Woodinville
Water District**

**THRUST BLOCKING
REQUIREMENTS**



**WATER STD.
PLAN NO. 3**

REVISION DATE
11-12