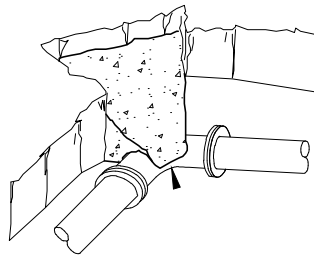
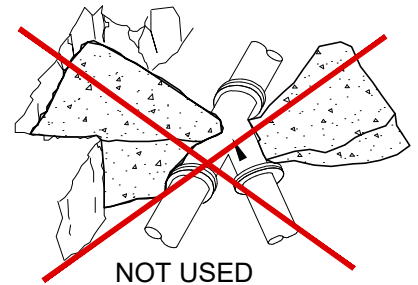


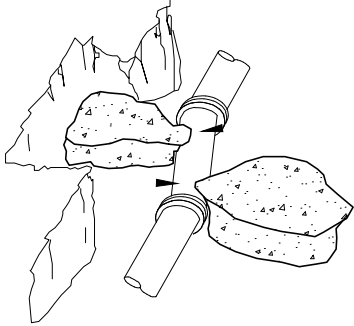
CONDITION I



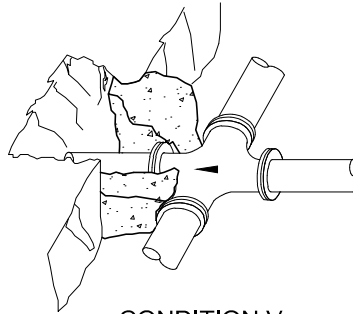
CONDITION II



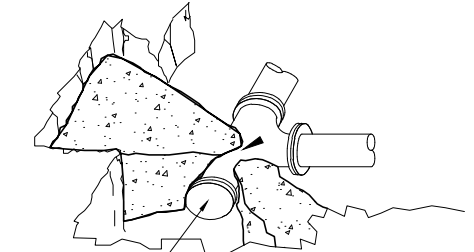
NOT USED
CONDITION III



CONDITION IV

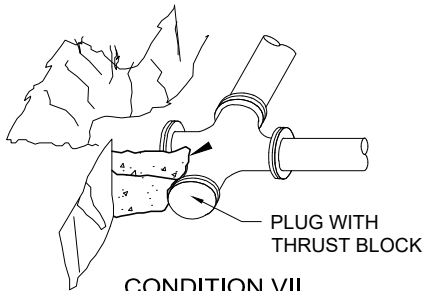


CONDITION V

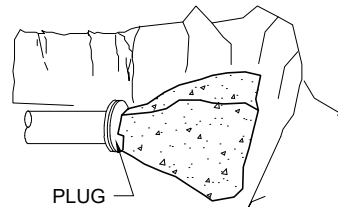


PLUG WITH
THRUST BLOCK

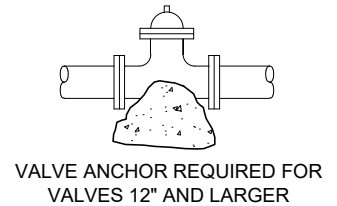
CONDITION VI



CONDITION VII



CONDITION VII

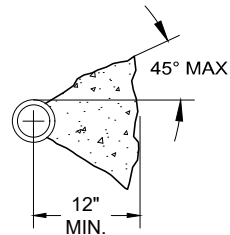


VALVE ANCHOR REQUIRED FOR
VALVES 12" AND LARGER

VALVE ANCHOR
12" & LARGER

THRUST BLOCK BEARING AREA IN SQ. FEET

PIPE SIZE (IN.)	CONDITION							
	I	II	III	IV	V	VI	VII	VIII
4	2.6	3.3	2.6	1.3	1.3	2.0	3.3	2.6
6	4.6	6.5	3.9	2.0	2.6	3.3	6.5	4.6
8	7.8	11.0	5.9	3.3	3.9	5.9	11.0	7.8
10	12.4	17.5	9.8	5.2	6.5	9.1	17.5	12.4
12	17.5	24.8	13.6	7.8	9.1	12.3	24.8	17.5
14	24.0	33.8	18.2	9.7	12.3	16.9	33.8	24.0
16	31.1	44.0	23.8	12.7	15.5	23.2	44.0	31.1
20	48.6	68.8	37.2	19.8	24.2	36.6	68.8	48.6
24	89.8	90.1	48.8	24.9	-	-	-	-



TYPICAL SECTION THROUGH
THRUST BLOCK

NOTES:

1. ALL THRUST BLOCK BEARING FACES SHALL BE POURED AGAINST UNDISTURBED SOIL OR APPROVED COMPACTED BACKFILL.
2. CONCRETE CLASS 4000, APWA SECTION 03 30 04
3. ALL THRUST BLOCK SIDES SHALL BE FORMED.
4. CALCULATED ON 200 PSI TEST PRESSURE AND ALLOWABLE BEARING PRESSURE OF 2000 LBS. PER SQUARE FOOT.
5. IN POORER SOILS SPECIAL DESIGN IS REQUIRED.
6. USE MJ DUCTILE IRON RESTRAINED GLANDS AND CONCRETE THRUST BLOCKS.