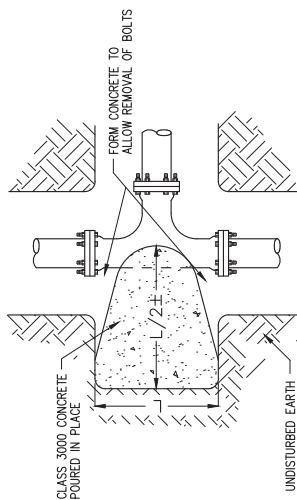
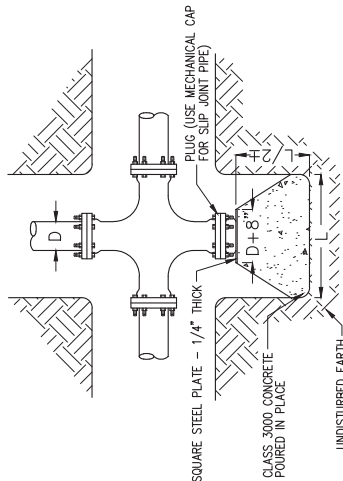


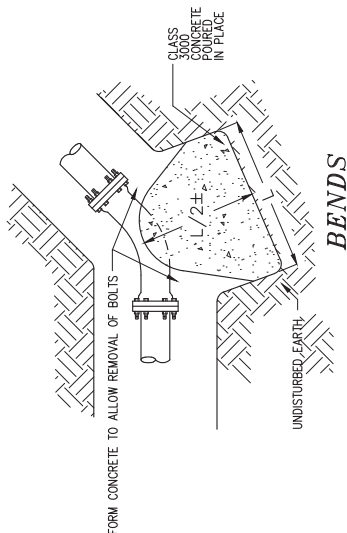
- NOTES:**
- ONLY THE LATEST DETAIL, AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS, SHALL BE USED.



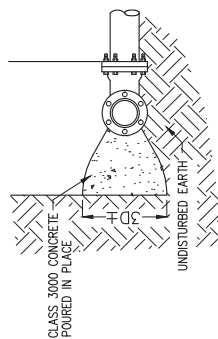
TEES



PLUGS AND CAPS

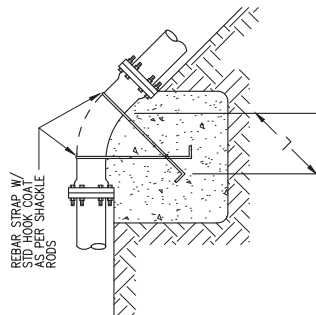


BENDS



SIDE VIEW

THIS VIEW TYPICAL OF ALL BLOCKING



VERTICAL OVERBEND

NOTES:

- D IS APPROXIMATE PIPE DIAMETER. THE ABOVE END AREAS ARE BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF AND 250 PSI TEST PRESSURE.
- DIMENSIONS LISTED DENOTE MINIMUM STANDARDS FOR SOIL AND TEST PRESSURES SHOWN. SHOULD TEST PRESSURE AND/OR SOIL CONDITIONS VARY, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SPECIAL THRUST BLOCK DESIGN.
- ALL FITTINGS AND/OR PIPE MAKING DIRECT CONTACT WITH CONCRETE SHALL BE WRAPPED WITH 4 MIL POLYETHYLENE SHEETING PRIOR TO PLACEMENT OF CONCRETE.

MINIMUM END AREAS			
PIPE SIZE (D)	TEES & PLUGS	90° BENDS	45° BENDS
6"	5.1 SQ FT	7.2 SQ FT	3.9 SQ FT
8"	8.8 SQ FT	12.4 SQ FT	6.7 SQ FT
10"	14.3 SQ FT	20.2 SQ FT	11.0 SQ FT
12"	20.4 SQ FT	28.9 SQ FT	15.7 SQ FT
14"	27.7 SQ FT	39.2 SQ FT	21.2 SQ FT
16"	35.8 SQ FT	51.2 SQ FT	27.5 SQ FT

VERTICAL OVERBEND				
PIPE SIZE (D)	22 1/2° BEND	45° BEND	REBAR SIZE	L
6"	20 CU FT	39 CU FT	#5	2.0 FT
8"	34 CU FT	67 CU FT	#5	2.0 FT
10"	56 CU FT	110 CU FT	#5	2.0 FT
12"	79 CU FT	157 CU FT	#6	2.5 FT
14"	107 CU FT	212 CU FT	#7	3.0 FT
16"	139 CU FT	275 CU FT	#9	4.0 FT

TYPICAL THRUST BLOCKING

NOT TO SCALE

ORIG.	10/06		
Revision	Date	Description	Appr