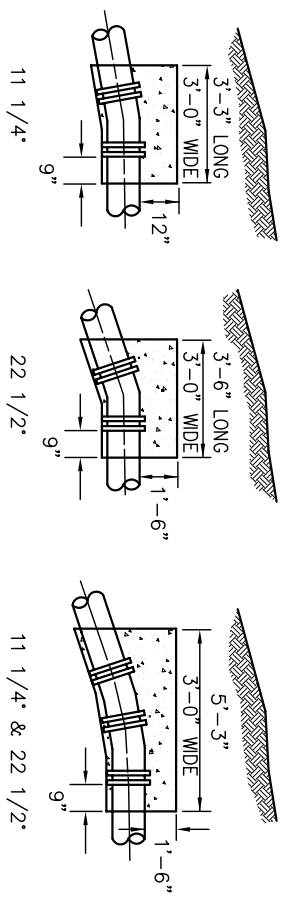
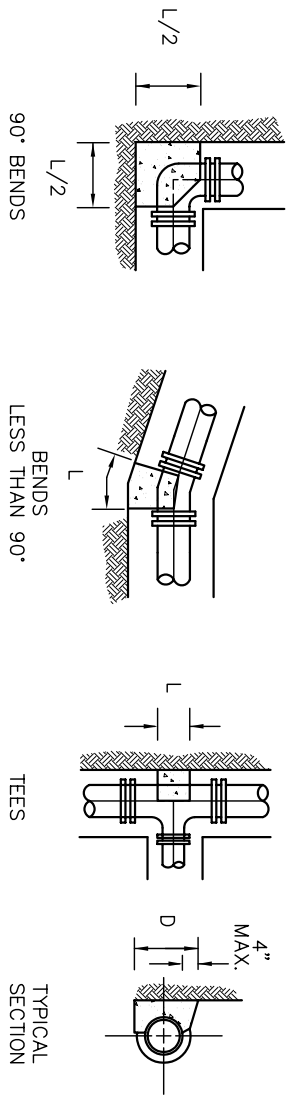


DETAIL - END OF WATER LINE



CONCRETE BLOCKING FOR VERTICAL BENDS
ONLY WITH PRIOR APPROVAL FROM VILLAGE



CONCRETE BLOCKING FOR HORIZONTAL BENDS
ONLY WITH PRIOR APPROVAL FROM VILLAGE

THRUST BLOCKING AREA (LxD) REQUIRED						
SIZE OF PIPE	11 1/4°	22 1/2°	45°	90°	TEE OR PLUG	
4"	1	1	1	1.3	1	
6"	1	1	1.6	3	2.1	
8"	1	1.5	2.9	5	4	
10"	1.2	2.3	5	8	6	
12"	1.7	3	7	12	9	
16"	3	6	12	21	15	

SIZE OF OPENING	BENDS					
	11 1/4°		22 1/2°		45°	
3", 4", 6"	L	D	L	D	L	D
8"	8"	6"	10"	6"	20"	6"
12"	9"	8"	14"	8"	24"	9"
16"	14"	12"	22"	12"	30"	16"
	18"	16"	24"	18"	33"	36"

RUN	TEES					
	BRANCH			45°		
3", 4", 6"	L	D	L	D	L	D
8"	9"	12"	18"	12"	24"	18"
12"	12"	18"	24"	18"	30"	24"
16"	16"	24"	30"	24"	36"	30"

NOTES

- A. CARE SHALL BE TAKEN TO KEEP CONCRETE AWAY FROM MECHANICAL JOINTS BY PLACING VISQUEEN OR OTHER APPROVED MATERIAL OVER PIPE BEFORE PLACING OF CONCRETE.
- B. CONCRETE FOR BLOCKING VALVES AND FITTINGS SHALL CONFORM TO SECTION ODOT 499 CLASS C.
- C. CONTRACTOR SHALL USE THE THRUST BLOCKS AS SHOWN ONLY IF PREAPPROVED FOR SPECIAL CONDITION BY THE VILLAGE PRIOR TO BEGINNING CONSTRUCTION.

CONCRETE BLOCKING FOR WATER MAINS