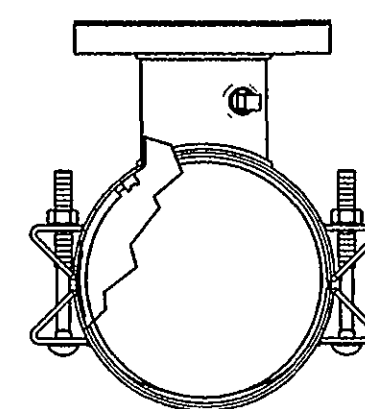
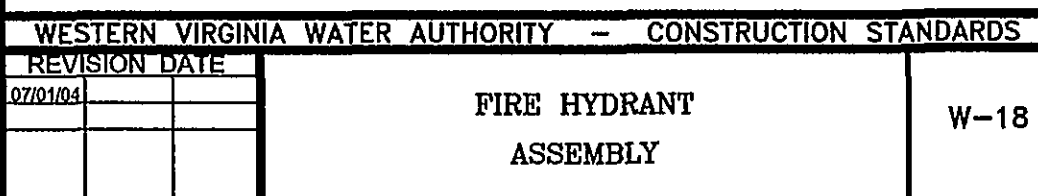
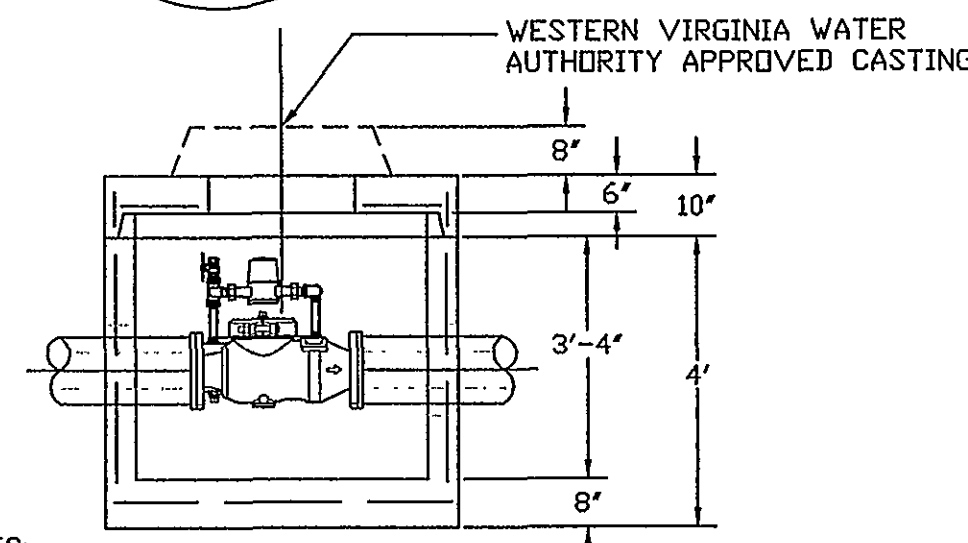


1. ALL CONNECTIONS TO EXISTING WATER MAINS SHALL BE COORDINATED WITH THE WESTERN VIRGINIA WATER AUTHORITY (WVWA). CONTRACTOR TO FURNISH AND INSTALL TAPPING SLEEVE AND VALVE. TAP TO BE MADE BY WVWA.
2. WATER SERVICE LINES SHALL COMPLY WITH AWWA C800 LATEST EDITION.
3. ALL UTILITY CONSTRUCTION AND TESTING METHODS SHALL BE IN ACCORDANCE WITH MOST CURRENT WVWA STANDARDS.



1. TAPPING SLEEVE SHALL BE POWERWELD MODEL 3490 TYPE 304 STAINLESS STEEL WITH CARBON STEEL FLANGE, ROMAC'S MODEL SST II, FORD MODEL FTSM WITH CARBON STEEL FLANGE OR APPROVED EQUIVALENT. SLEEVE SHALL BE RATED AT 250 PSI AND MUST HAVE A TEST PLUG.
2. TAPPING VALVE SHALL BE AVK RESILIENT SEATED GATE VALVE SERIES 25 MWFL OR MUELLER T-2380 RESILIENT GATE VALVE TAPPING VALVE WITH MWFL. VALVE SHALL BE RATED AT 250 PSI.
3. TAPPING SLEEVE AND VALVE SHALL BE FULL PORT TO ACCEPT FULL SIZE SHELL CUTTER.
4. STEEL FLANGE SHALL MEET ANWA C207.

WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS			
REVISION DATE		TAPPING SLEEVE AND VALVE	W-23
07/01/04			
03/01/03			

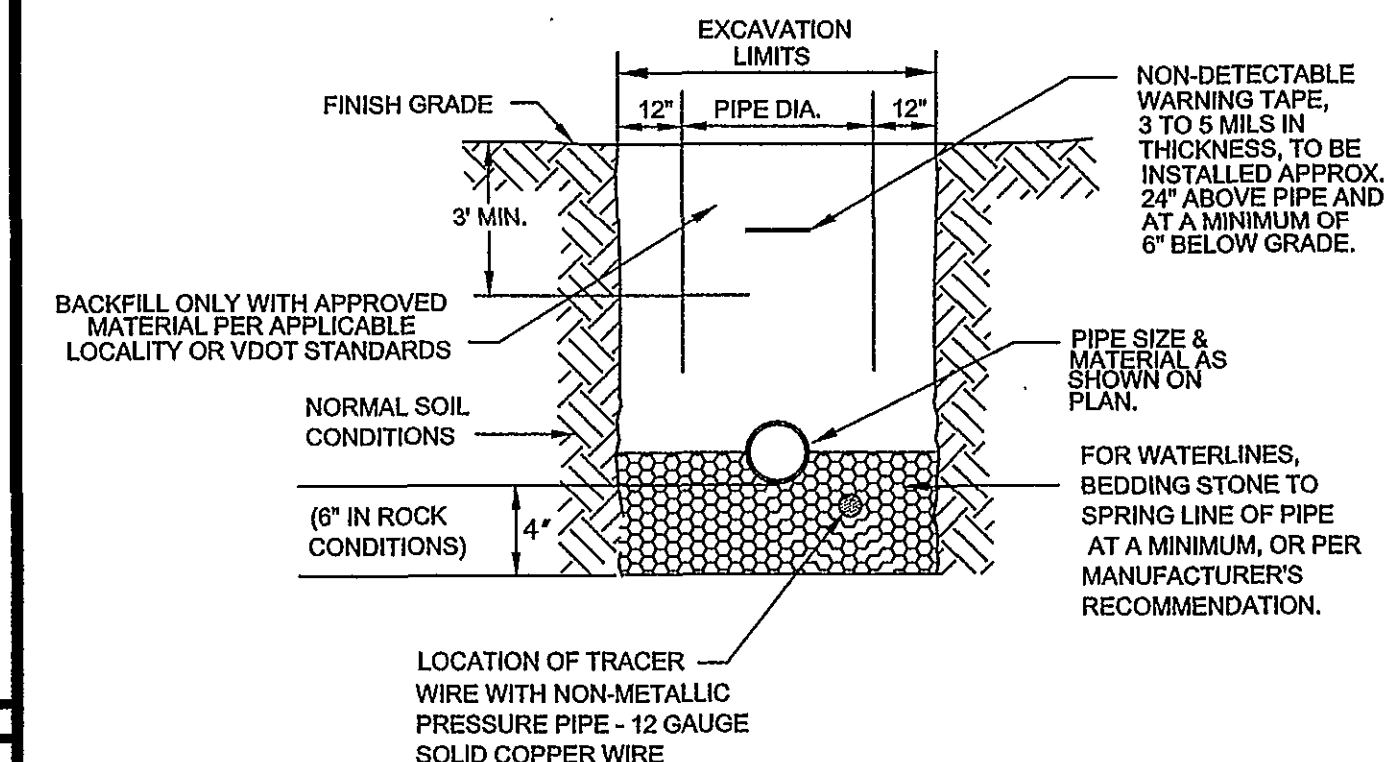


PRECAST STRUCTURE NOTES:

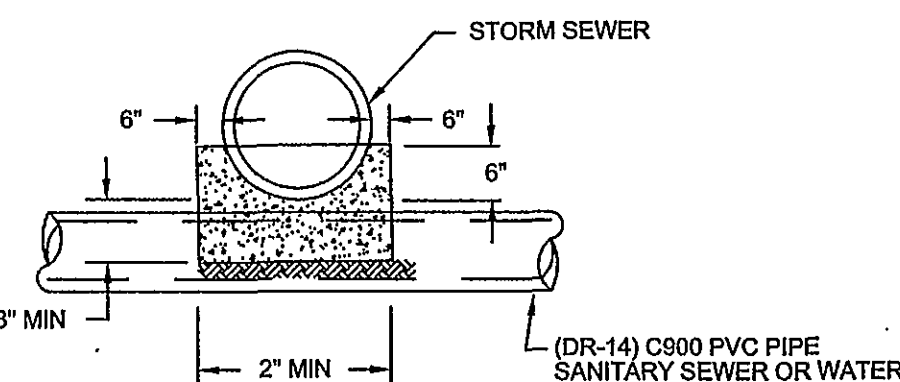
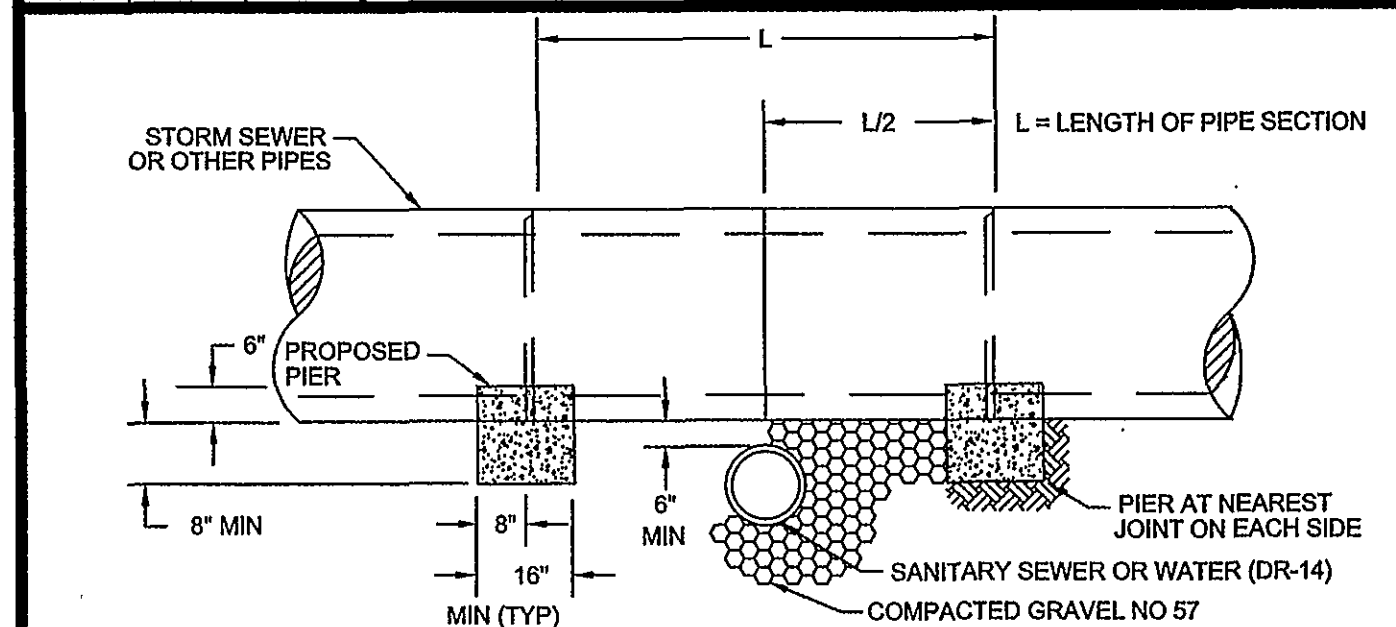
- 1) 4000 PSI CONCRETE
- 2) MANHOLE SECTIONS MEET ASTM C478, AASHTO M-199.
- 3) REFER TO CONTRACT DOCUMENTS FOR PIPE SIZES, LOCATIONS, AND ELEVATIONS.
- 4) FLEXIBLE CONNECTOR IN ACCORDANCE WITH ASTM C923

WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS			
REVISION DATE		MODIFIED FIRE SERVICE VAULT FOR PRIVATE HYDRANT CHECK VALVE INSTALLATION	W-27
08/13/08			

1. BEDDING, HAUNCHING AND INITIAL BACKFILL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
2. TWO PIPE BEDS SHALL BE BEDDED IN COMPACTED WED #57 OR #68 STONE.
3. IN AREAS NOT SUBJECTED TO VEHICULAR TRAFFIC, BEDDING STONE AND FILL SHALL BE PLACED IN 6" LIFTS FROM BOTTOM OF TRENCH TO 1" ABOVE THE PIPE AND THE REMAINING SHALL BE PLACED IN 4" LIFTS AND SHALL BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 1557.
4. BEDDING REQUIREMENTS FOR DUCTILE IRON WATER LINE ARE DEPENDENT ON MANUFACTURER'S BEDDING CRITERIA.
5. ALL EXCAVATIONS SHALL COMPLY WITH OSHA TECHNICAL MANUAL, CHAPTER 2, TITLED "EXCAVATIONS-HAZARD RECOGNITION IN TRENCHING AND SHORING."

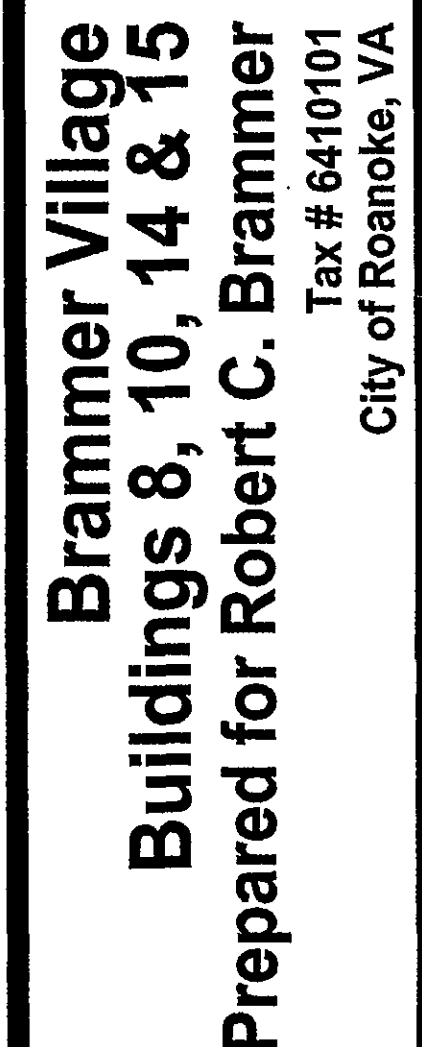


WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS			
REVISION DATE		BEDDING AND BACKFILL OUTSIDE OF PAVED AREAS	W-24
07/01/04			
03/01/06			



1. PIER REQUIRED WHEN STORM DRAIN OR OTHER PIPES
CROSSES OVER THE OTHER UTILITY WITH A VERTICAL
CLEARANCE OF LESS THAN 18".
2. PIER TO BE BUILT ON UNDISTURBED EARTH.
3. CONCRETE TO BE READY MIX, CLASS A3.

WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS			
REVISION DATE		CONCRETE PIER	S-16
07/01/04			



PROJECT NUMBER