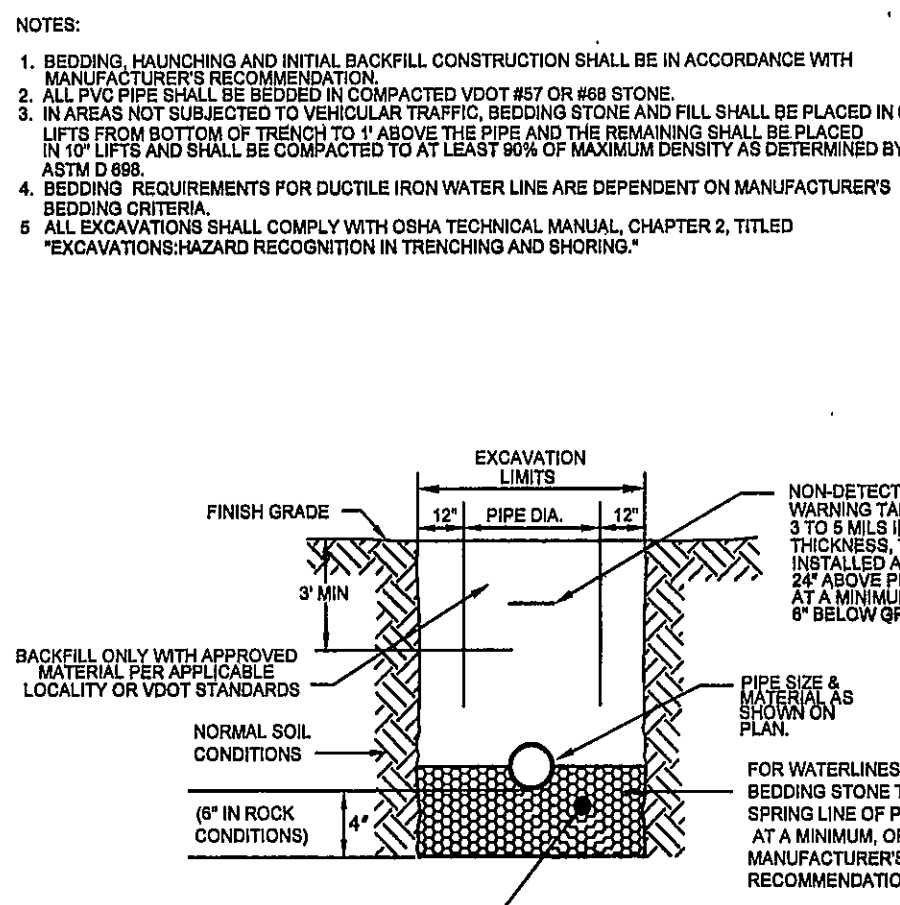
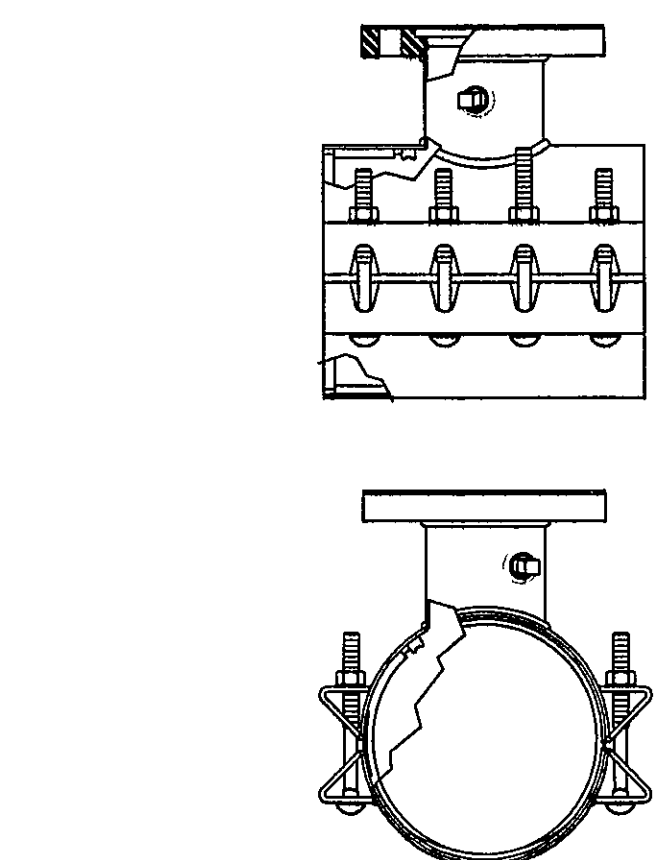
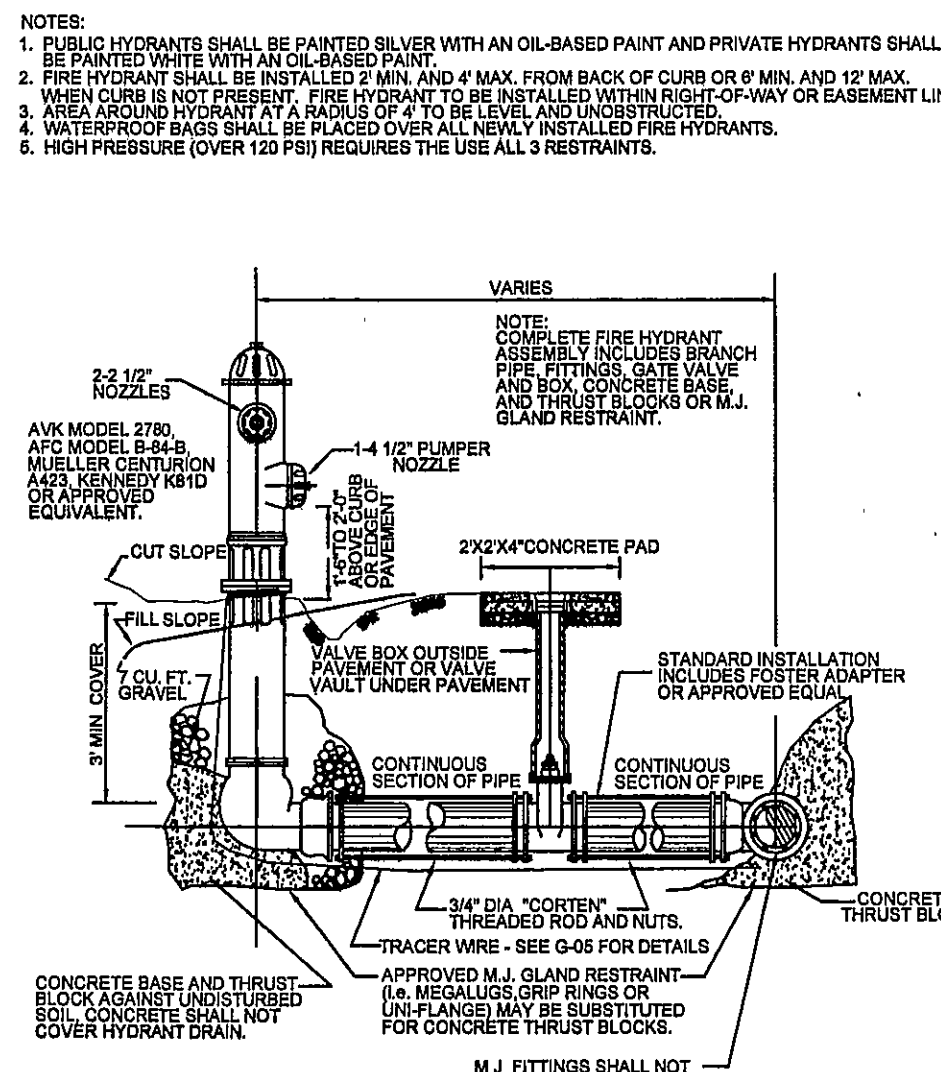
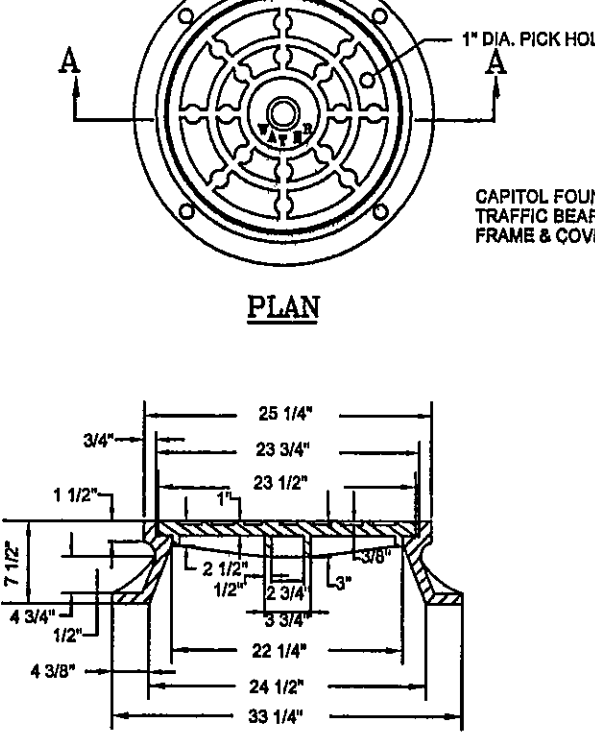


- NOTE:
1. USE MODERATELY STIFF MIX OF NON-SHINK CEMENT, SAND AND 1/2 IN. COARSE DIAMETER GRAVEL WITH 3/4 IN. STEEL RODS TO REINFORCE.
 2. MIX IS TO BE PLACED IN VALVE CHAMBER AND UNDER FLANGE.
 3. MAX. 24 HOURS FOR CONCRETE TO SET.
 4. DO NOT BACKFILL AROUND FRAME AND COVER FOR 48 HOURS.
 5. BACKFILL WITH 1/2 IN. COARSE DIAMETER GRAVEL TO STRENGTHEN CONCRETE WOULD REDUCE TIME TO 24 HRS.
 6. RESTRICT TRAFFIC LOAD FOR MIN. 24 HOURS.



REVISION DATE	DESCRIPTION	W-08
07/01/04	WATER LINE VALVE INSTALLATION	
03/01/06		

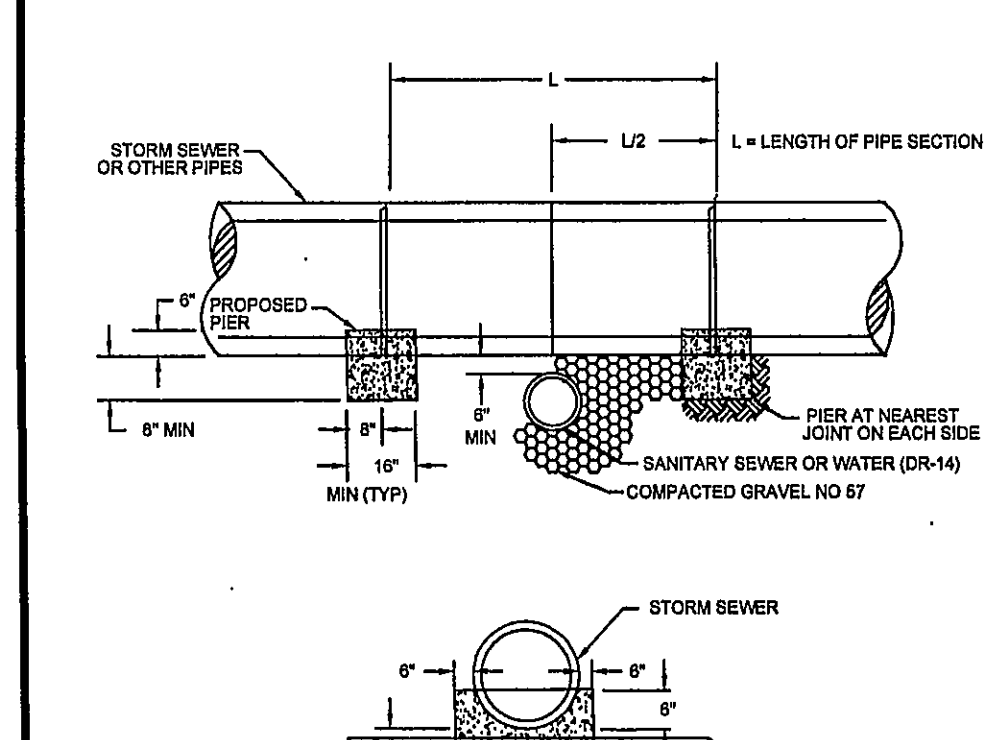
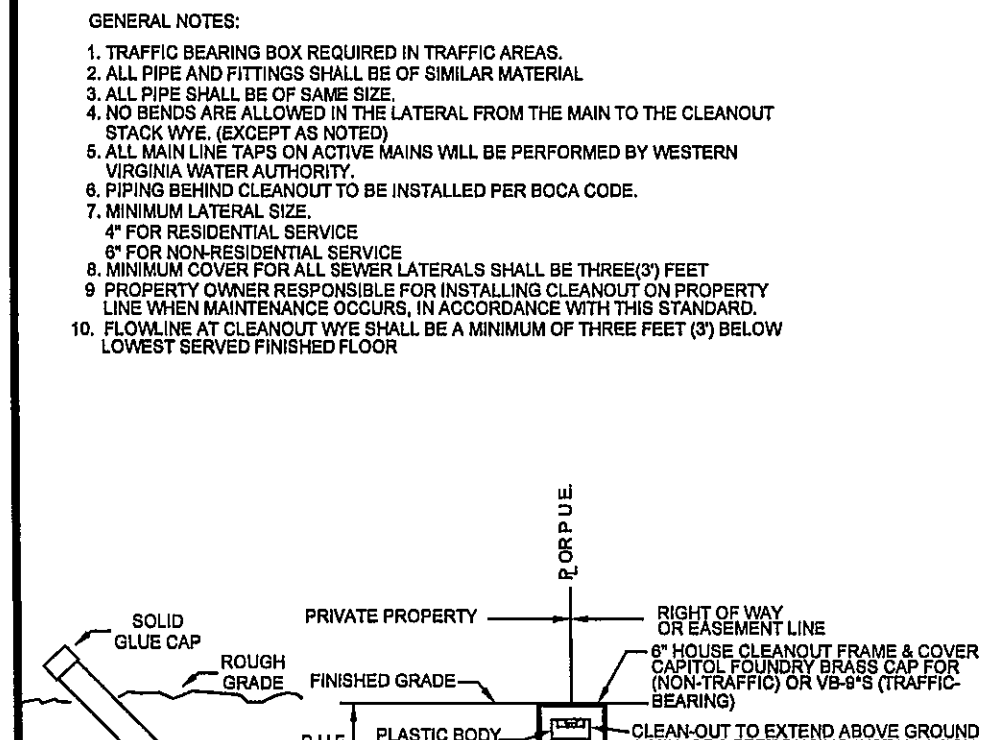
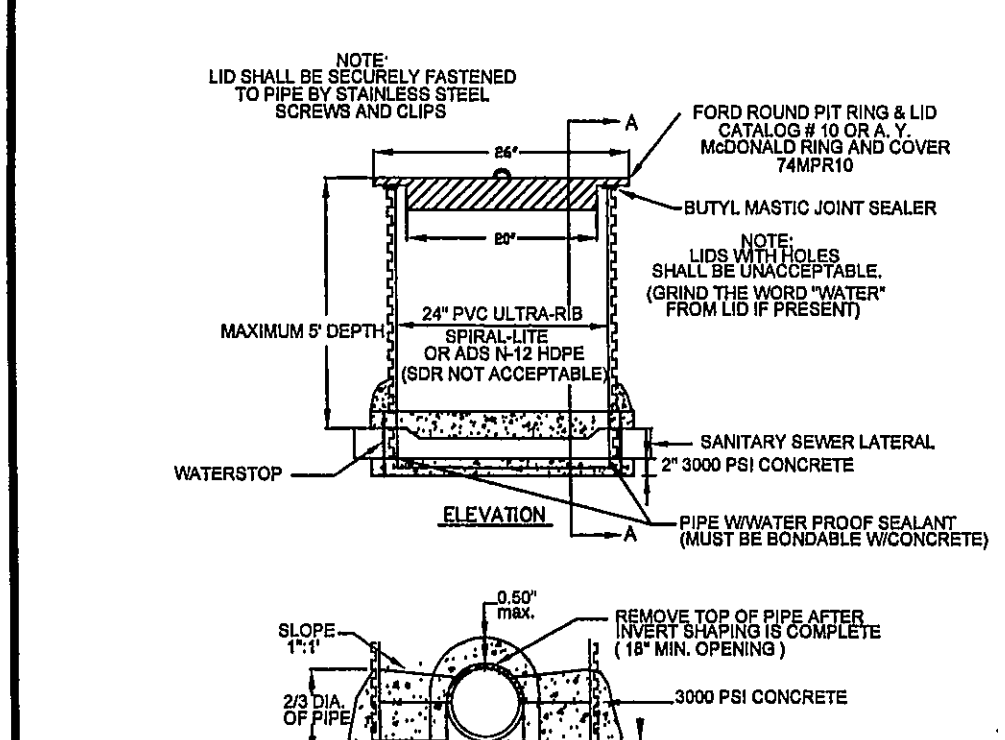
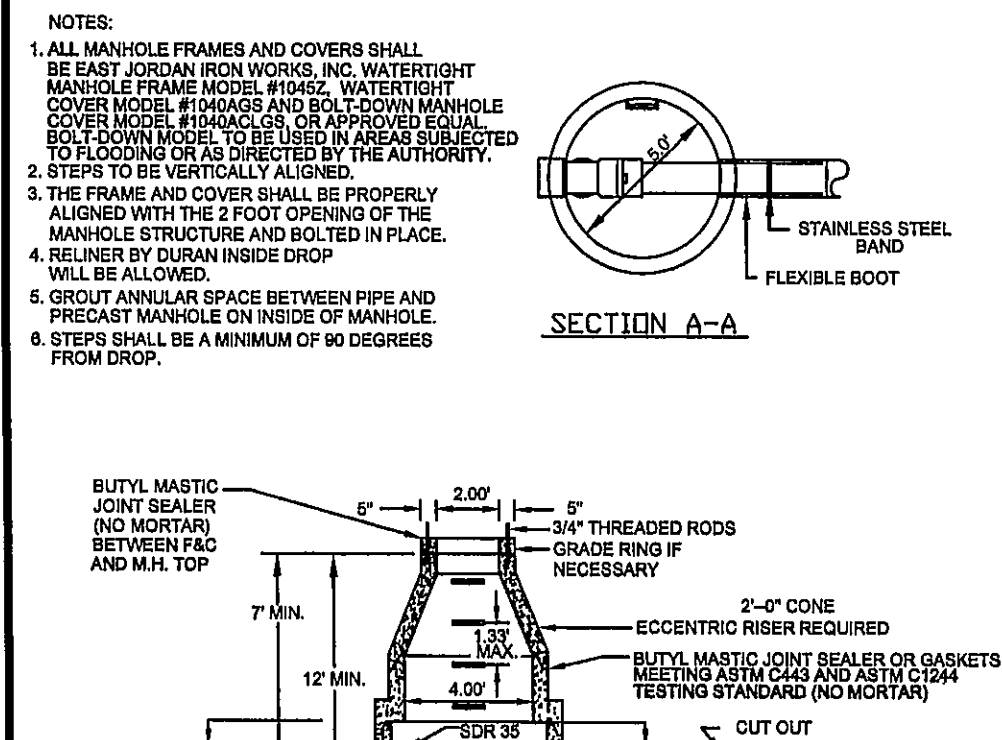
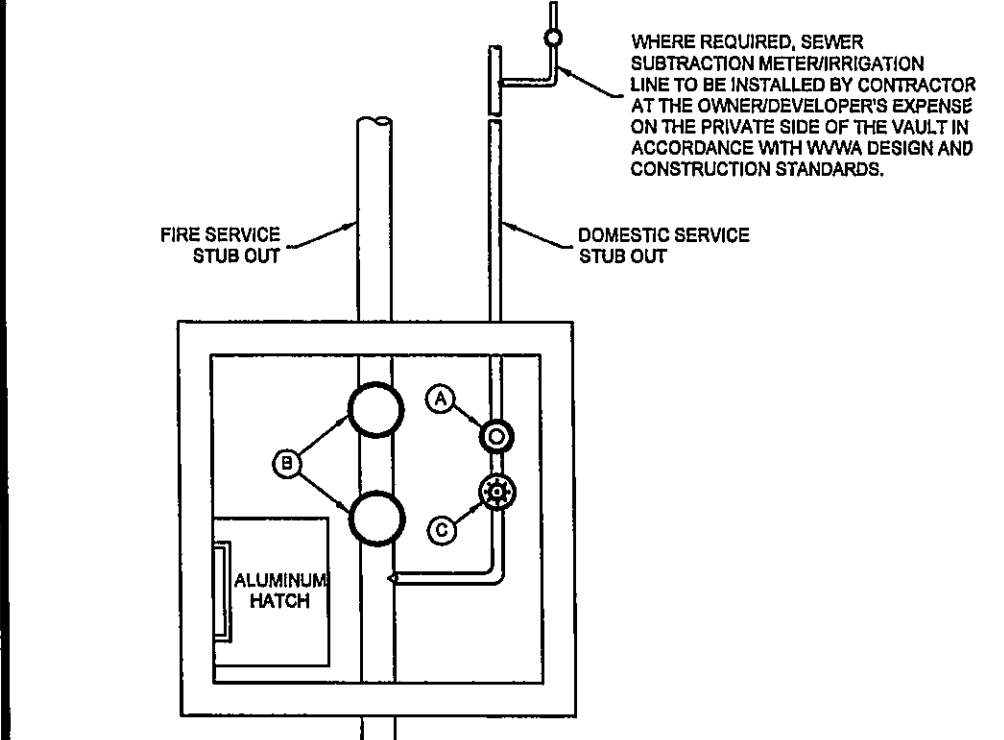
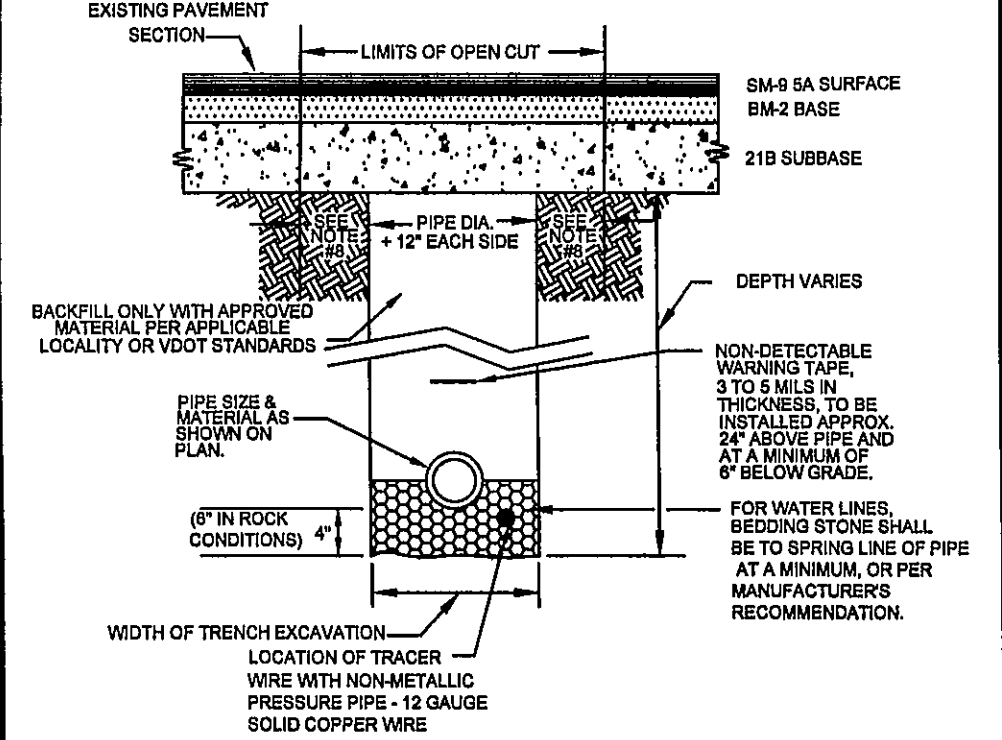
REVISION DATE	DESCRIPTION	W-16
07/01/04	INSTALLATION DETAIL FOR ALL FRAMES AND COVERS	
03/01/06		

REVISION DATE	DESCRIPTION	W-17
07/01/04	MANHOLE FRAME AND COVER	
03/01/06		

REVISION DATE	DESCRIPTION	W-18
07/01/04	FIRE HYDRANT ASSEMBLY	
03/01/06		

REVISION DATE	DESCRIPTION	W-23
07/01/04	TAPPING SLEEVE AND VALVE	
03/01/06		

REVISION DATE	DESCRIPTION	W-24
07/01/04	BEDDING AND BACKFILL OUTSIDE OF PAVED AREAS	
03/01/06		



REVISION DATE	DESCRIPTION	W-25
07/01/04	BEDDING AND BACKFILL UNDER PAVEMENT AND RIGHT-OF-WAY	
03/01/06		

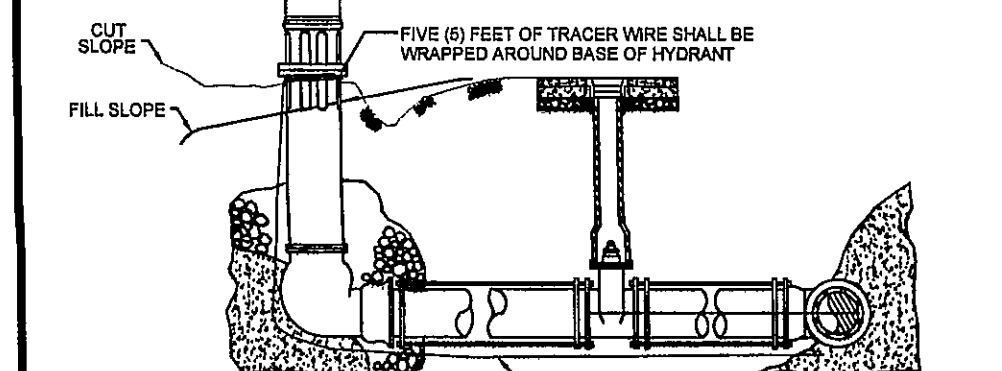
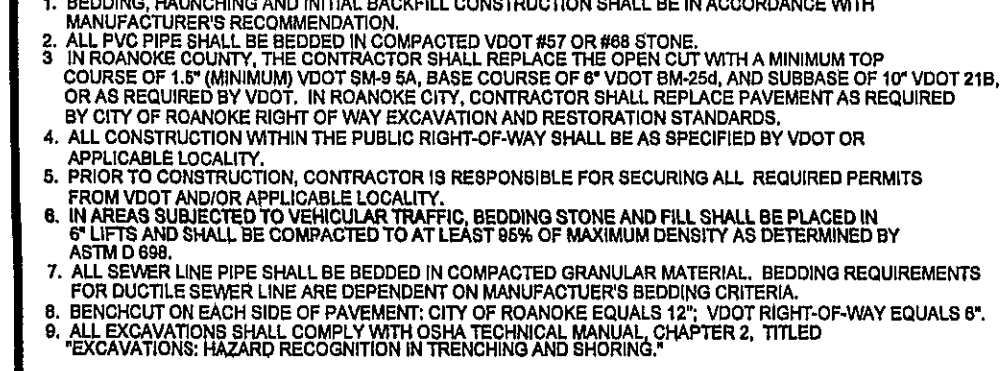
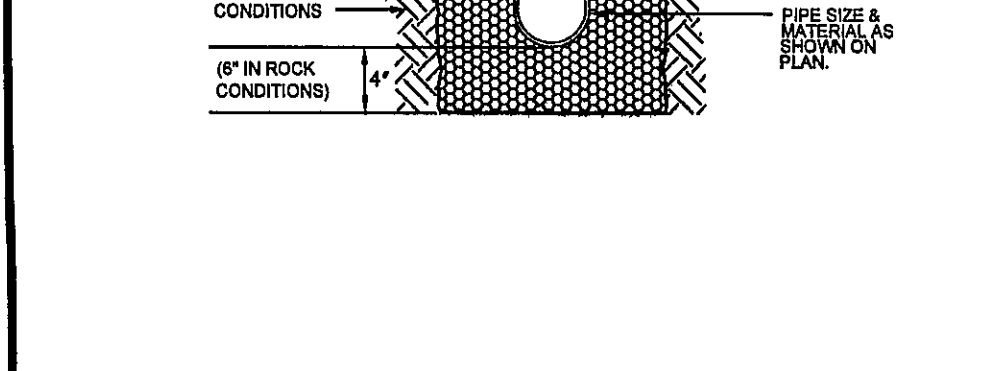
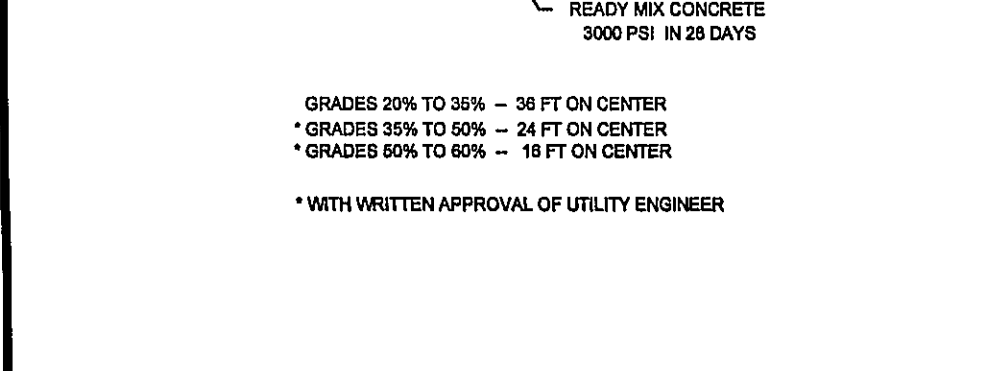
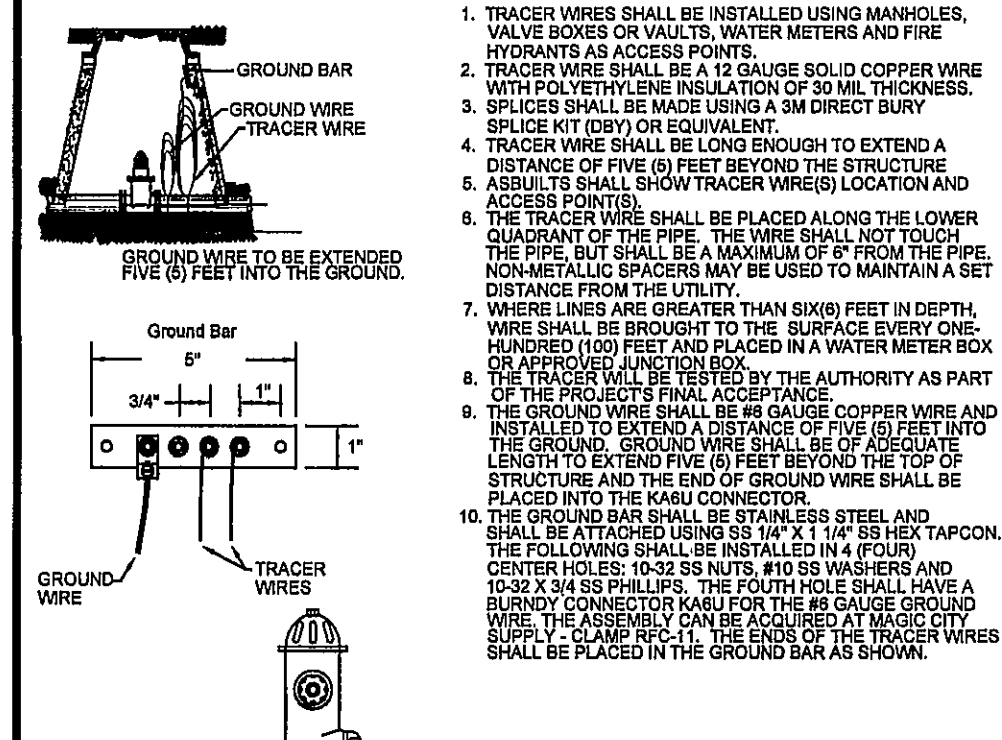
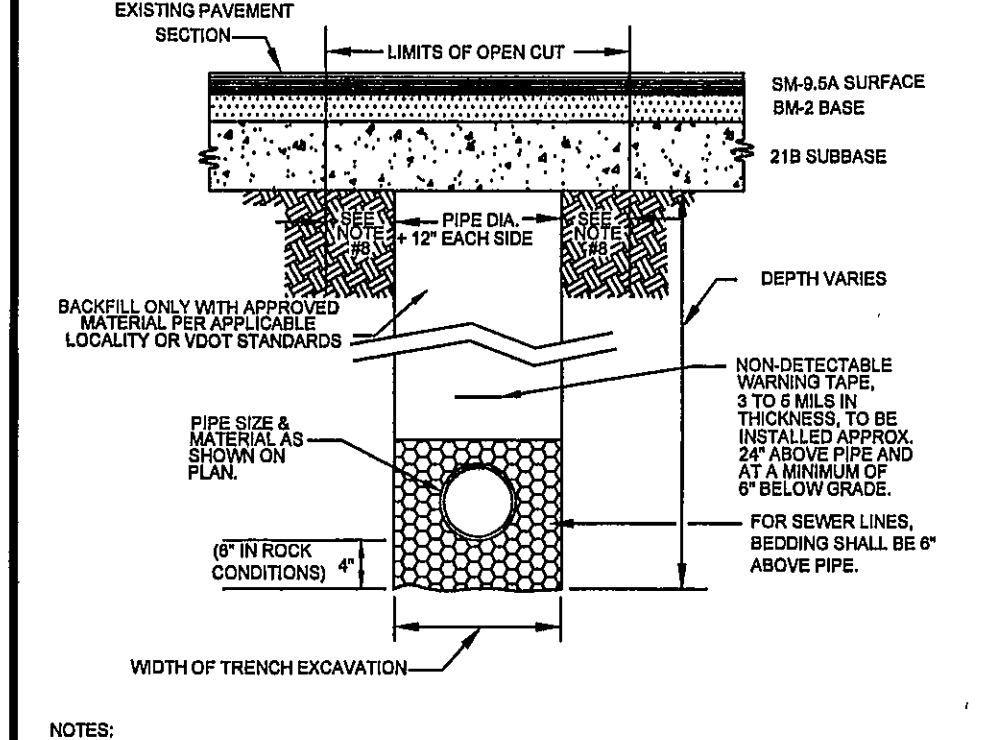
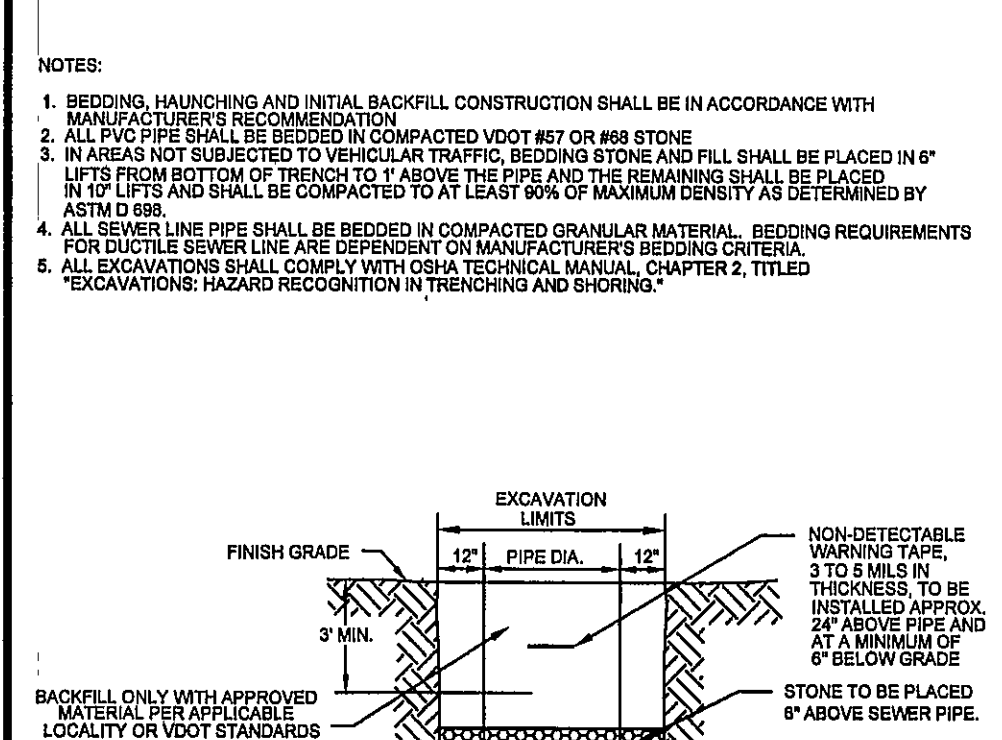
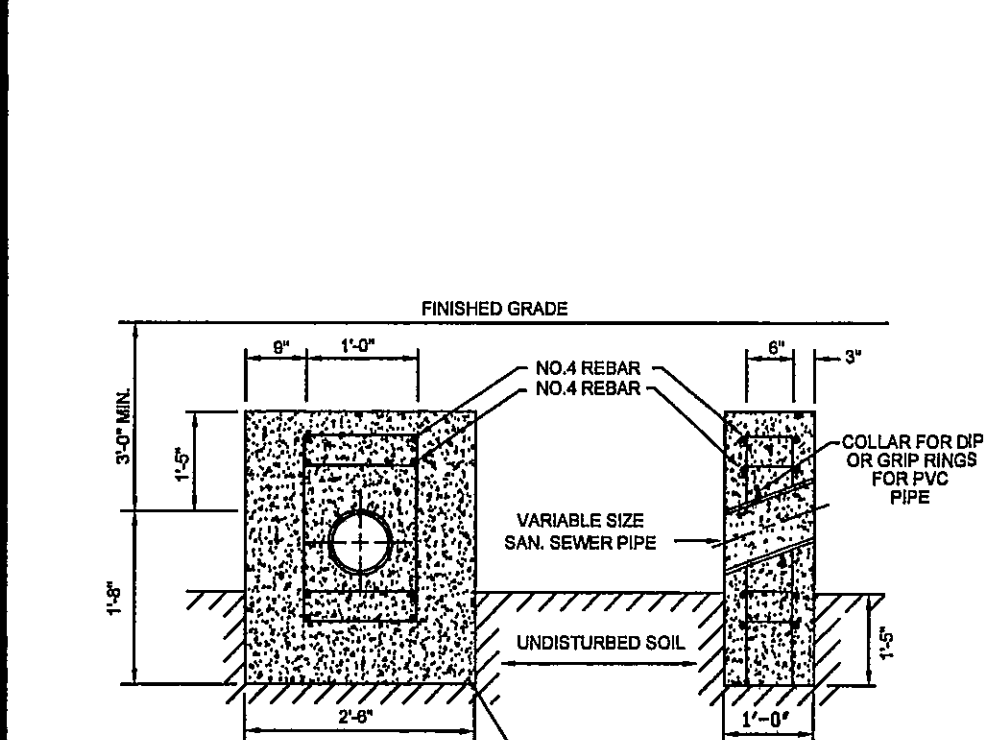
REVISION DATE	DESCRIPTION	W-26
07/01/04	WATER VAULT	
03/01/06		

REVISION DATE	DESCRIPTION	S-04
07/01/04	MAINLINE OR LATERAL INSIDE DROP MANHOLE (FOR USE WITH PVC PIPE)	
03/01/06		

REVISION DATE	DESCRIPTION	S-07
07/01/04	SAMPLING STRUCTURE DETAIL	
03/01/06		

REVISION DATE	DESCRIPTION	S-08
07/01/04	SANITARY SEWER LATERAL	
03/01/06		

REVISION DATE	DESCRIPTION	S-16
07/01/04	CONCRETE PIER	
03/01/06		



REVISION DATE	DESCRIPTION	S-17
07/01/04	ANCHOR BLOCK	
03/01/06		

REVISION DATE	DESCRIPTION	S-30
07/01/04	BEDDING AND BACKFILL OUTSIDE OF PAVED AREAS	
03/01/06		

REVISION DATE	DESCRIPTION	S-31
07/01/04	BEDDING AND BACKFILL UNDER PAVEMENT AND RIGHT-OF-WAY	
03/01/06		

REVISION DATE	DESCRIPTION	G-05
07/01/04	TRACER WIRE FOR NON-METALLIC PRESSURE PIPE	
03/01/06		

REVISION DATE	DESCRIPTION	G-05
07/01/04	TRACER WIRE FOR NON-METALLIC PRESSURE PIPE	
03/01/06		

REVISION DATE	DESCRIPTION	G-05
07/01/04	TRACER WIRE FOR NON-METALLIC PRESSURE PIPE	
03/01/06		

LUMSDEN ASSOCIATES P.C.
ENGINEERS-SURVEYORS-PLANNERS
ROANOKE, VIRGINIA

PHONE: (540) 774-4411
FAX: (540) 772-9445
E-MAIL: MAIL@LUMSDENPC.COM

4664 BRAMBLETON AVENUE
P.O. BOX 20669
ROANOKE, VIRGINIA 24018

COMMONWEALTH OF VIRGINIA
THOMAS C. DALE
Lic. No. 033002
12/12/07
PROFESSIONAL ENGINEER

**WATER AND
SANITARY
SEWER DETAILS**

**ROANOKE CUSTOMER SERVICE
CENTER - VIRGINIA DEPARTMENT
OF MOTOR VEHICLES**

PREPARED FOR
TIMBERBROOK PROPERTIES III, LLC
CATAWBA MAGISTERIAL DISTRICT
ROANOKE COUNTY, VIRGINIA

REVISIONS	DATE	DESCRIPTION
1		
2		
3		
4		
5		

DATE:	December 12, 2007
SCALE:	NONE
COMMISSION NO.:	2007-170
SHEET	11 OF 11