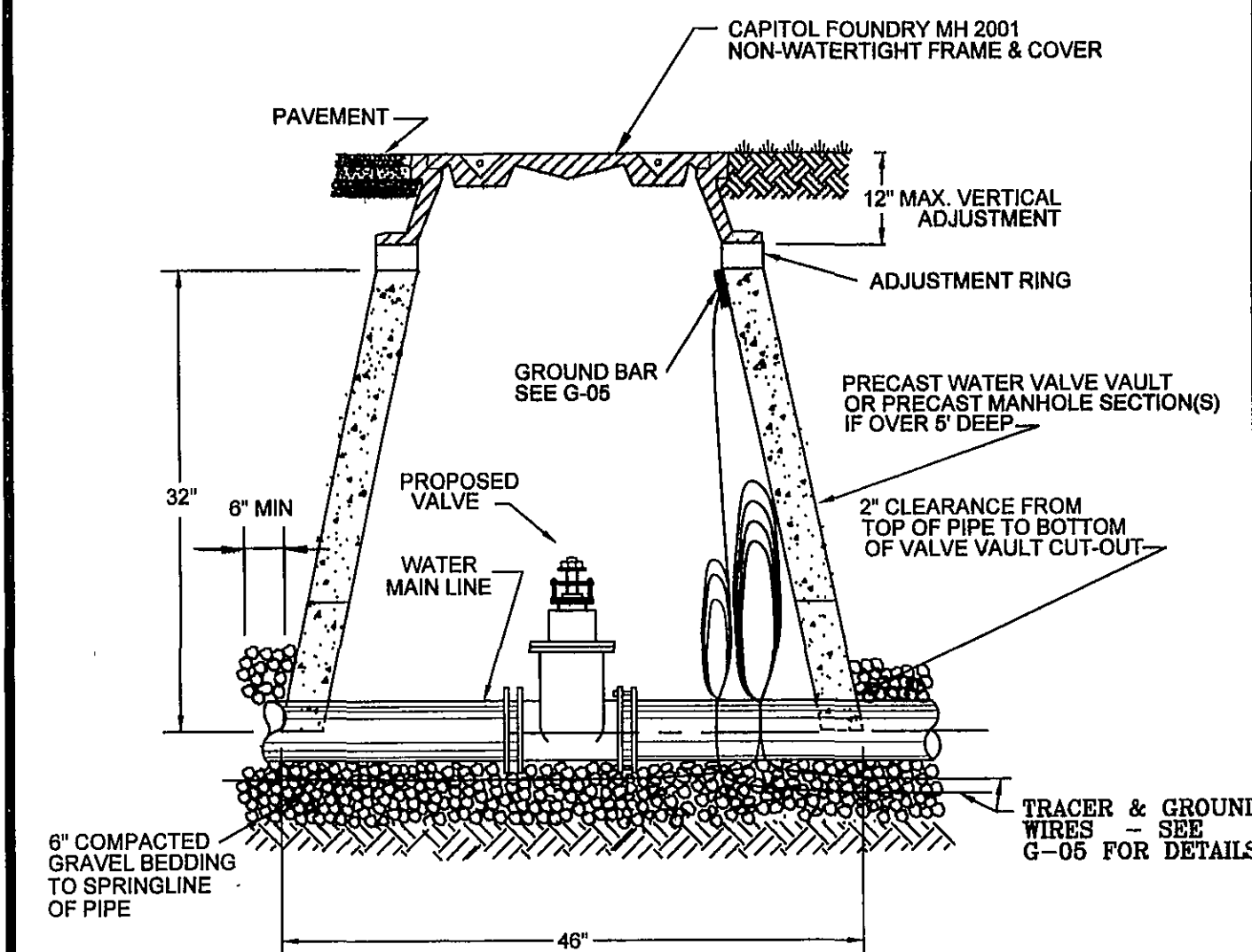
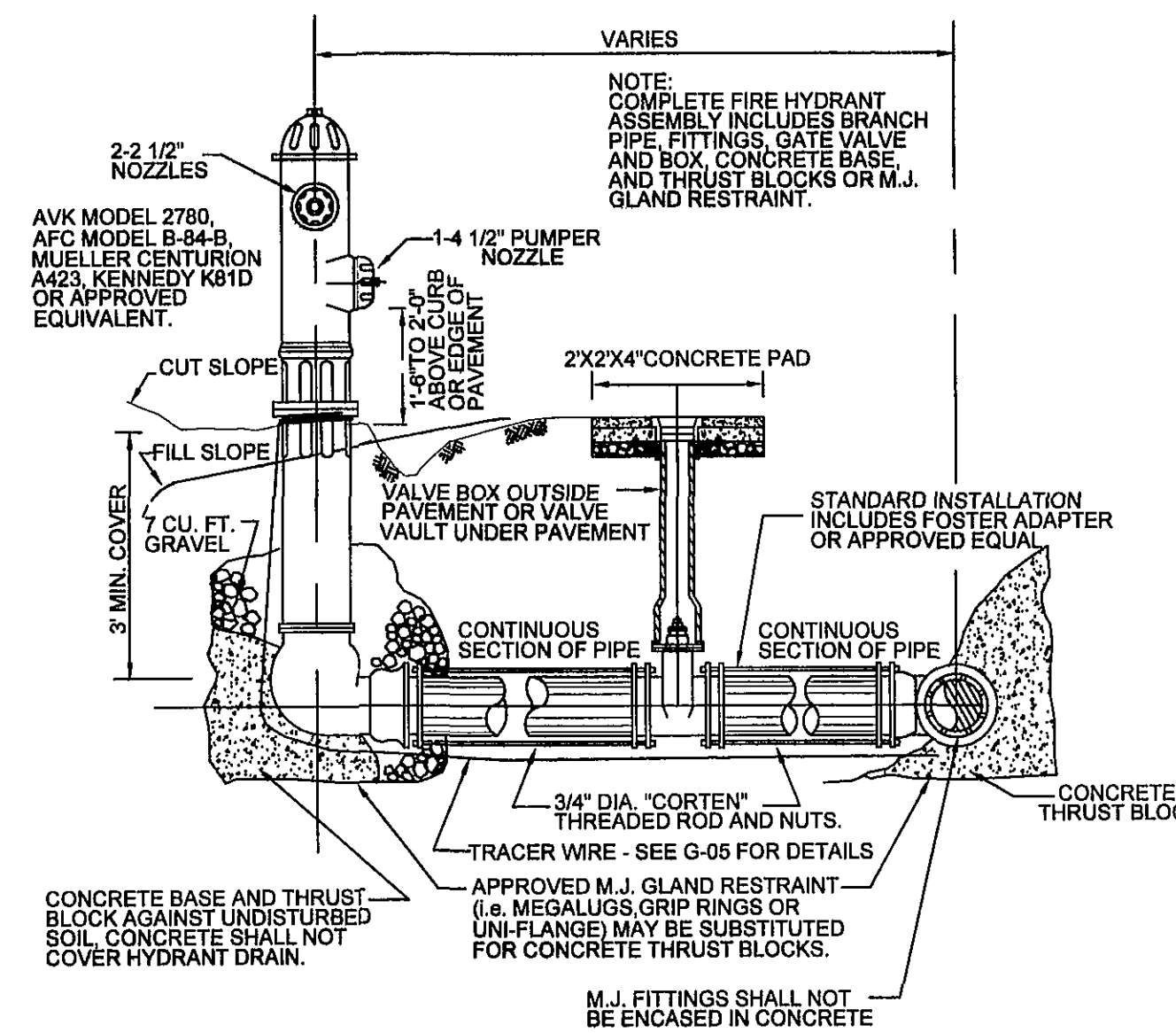




WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

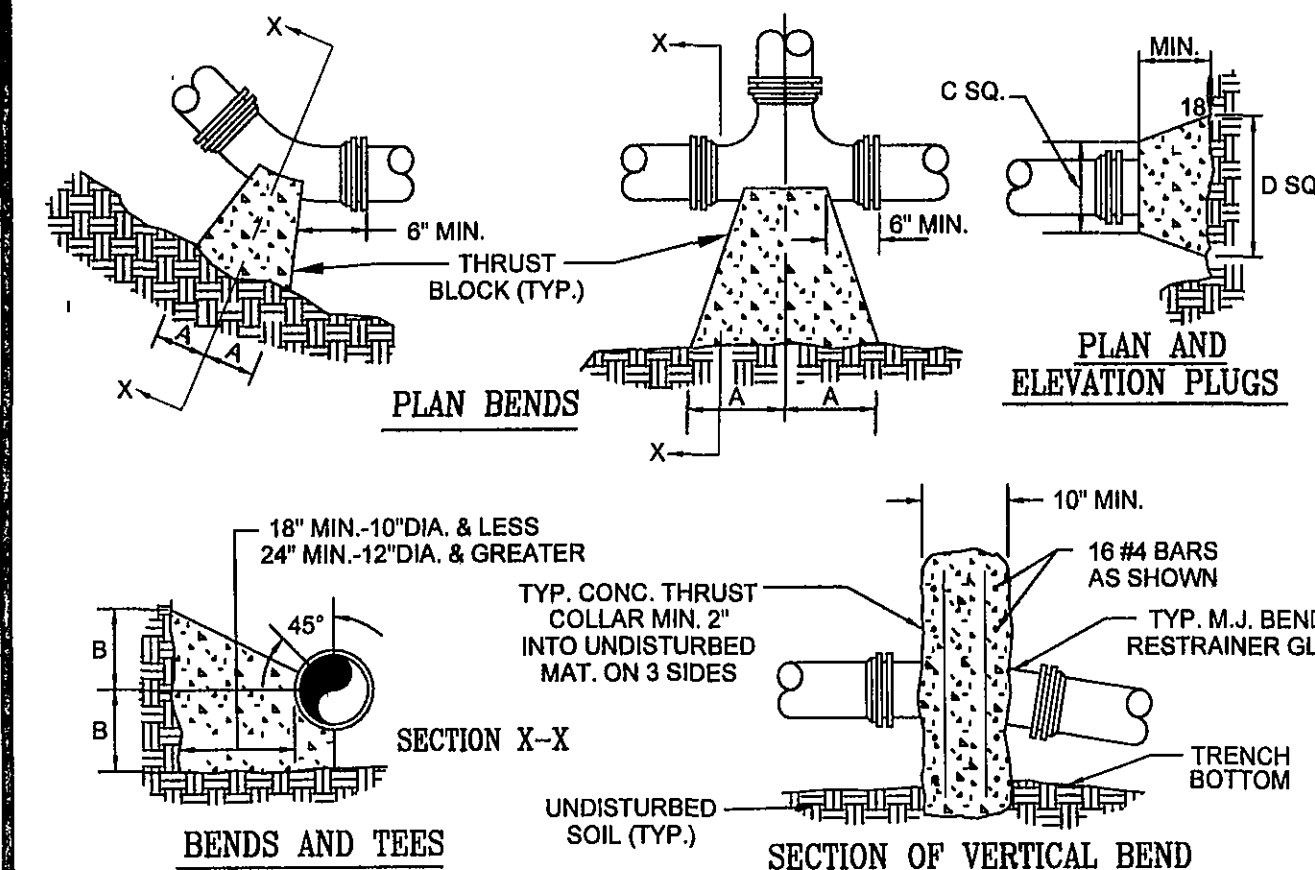
REVISION DATE	WATER LINE VALVE INSTALLATION	W-08
07/01/04		
03/01/06		

- NOTES:
- PUBLIC HYDRANTS SHALL BE PAINTED SILVER WITH AN OIL-BASED PAINT AND PRIVATE HYDRANTS SHALL BE PAINTED WHITE WITH AN OIL-BASED PAINT.
 - FIRE HYDRANT SHALL BE INSTALLED 2 MIN. AND 4' MAX. FROM BACK OF CURB OR 8' MIN. AND 12' MAX. WHEN CURB IS NOT PRESENT. FIRE HYDRANT TO BE INSTALLED WITHIN RIGHT-OF-WAY OR EASEMENT LINE.
 - AREA AROUND HYDRANT AT A RADIUS OF 4' TO BE LEVEL AND UNOBSTRUCTED.
 - WATERPROOF BAGS SHALL BE PLACED OVER ALL NEWLY INSTALLED FIRE HYDRANTS.
 - HIGH PRESSURE (OVER 120 PSI) REQUIRES THE USE ALL 3 RESTRAINTS.



WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

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

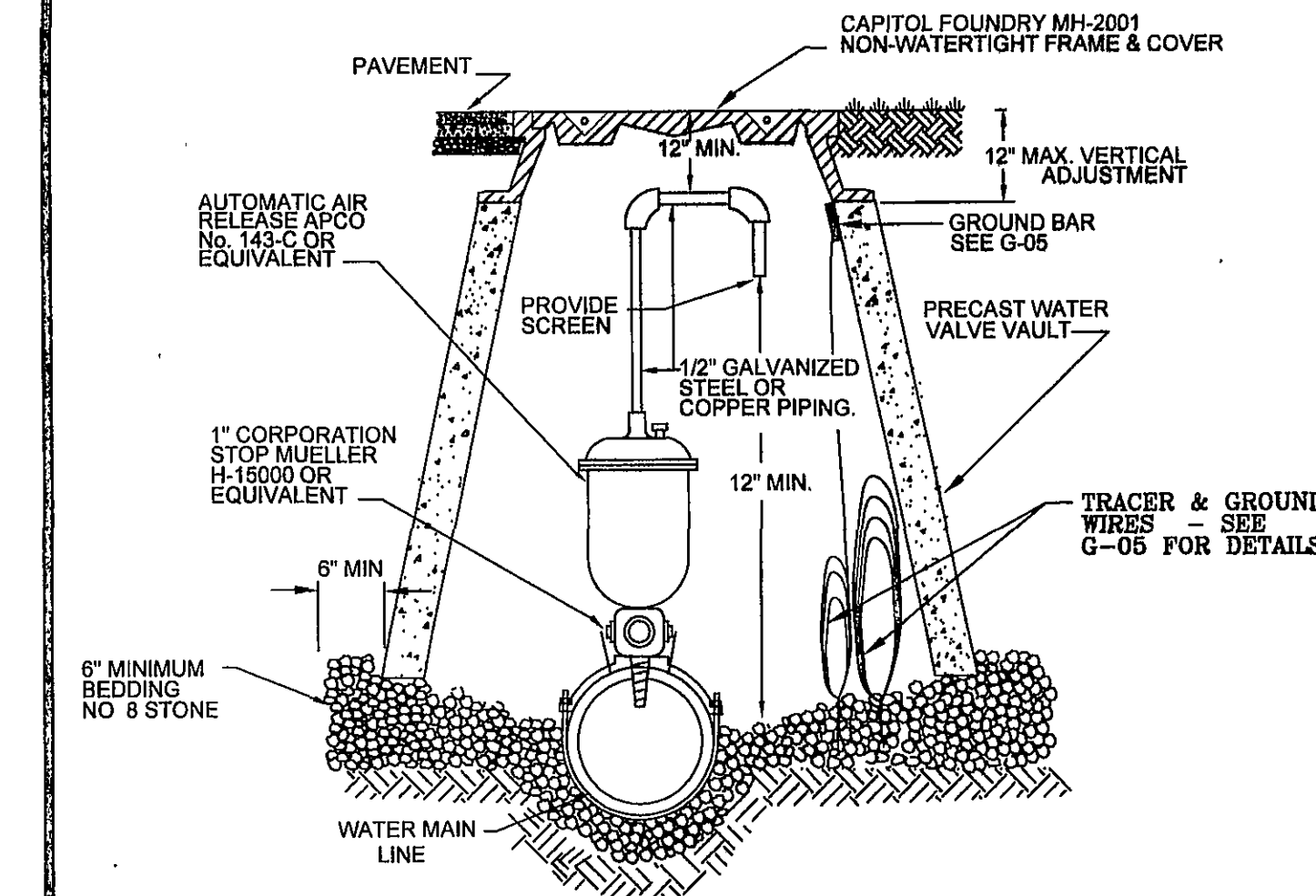


- NOTES:
- FOR VERT. BEND DOWN IN EXCESS OF 11 1/4" BEND, ANCHORAGE SHALL BE DESIGNED BY ENGINEER.
 - FOR VERT. BEND UPWARD, BLOCKING TO BE SIMILAR TO THAT FOR HORIZ. BEND.
 - GLANDS & BOLTS SHALL BE PROTECTED FROM CONC. BY PLASTIC SHEETING WHEN POURING THRUST BLOCKS.
 - ALL THRUST BLOCK & SUPPORT CONC. SHALL BE 3000 PSI READY MIX CONC.
 - THRUST BLOCKS WITH "B" DIMENSION GREATER THAN 30" SHALL HAVE THE RESTRAINED PIPE INSTALLED WITH A MINIMUM OF 4' OF COVER.
 - IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINTS MUST BE USED. IF EQUAL OR GREATER THAN 100 PSI WORKING PRESSURE, BOTH BLOCK AND RESTRAINT JOINTS ARE REQUIRED.

PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	TEE	PLUG
4"	8"	8"	8"	8"	8"	8"
6"	12"	12"	12"	12"	12"	12"
8"	18"	18"	18"	18"	18"	18"
10"	24"	24"	24"	24"	24"	24"
12"	30"	30"	30"	30"	30"	30"
16"	42"	42"	42"	42"	42"	42"
20"	48"	48"	48"	48"	48"	48"
24"	54"	54"	54"	54"	54"	54"
30"	60"	60"	60"	60"	60"	60"

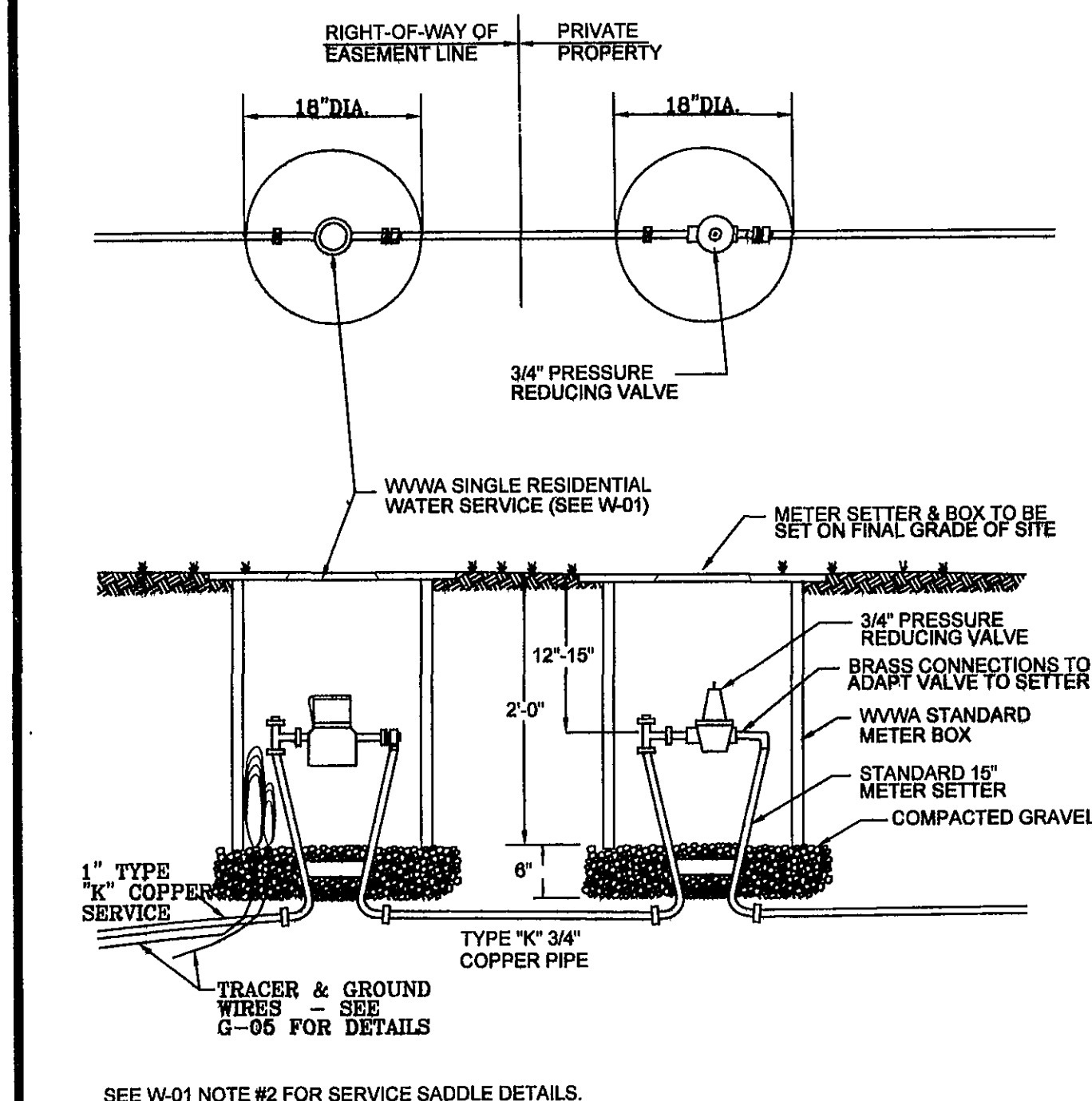
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION DATE	THRUST BLOCK CONSTRUCTION	W-19
07/01/04		
03/01/06		



WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

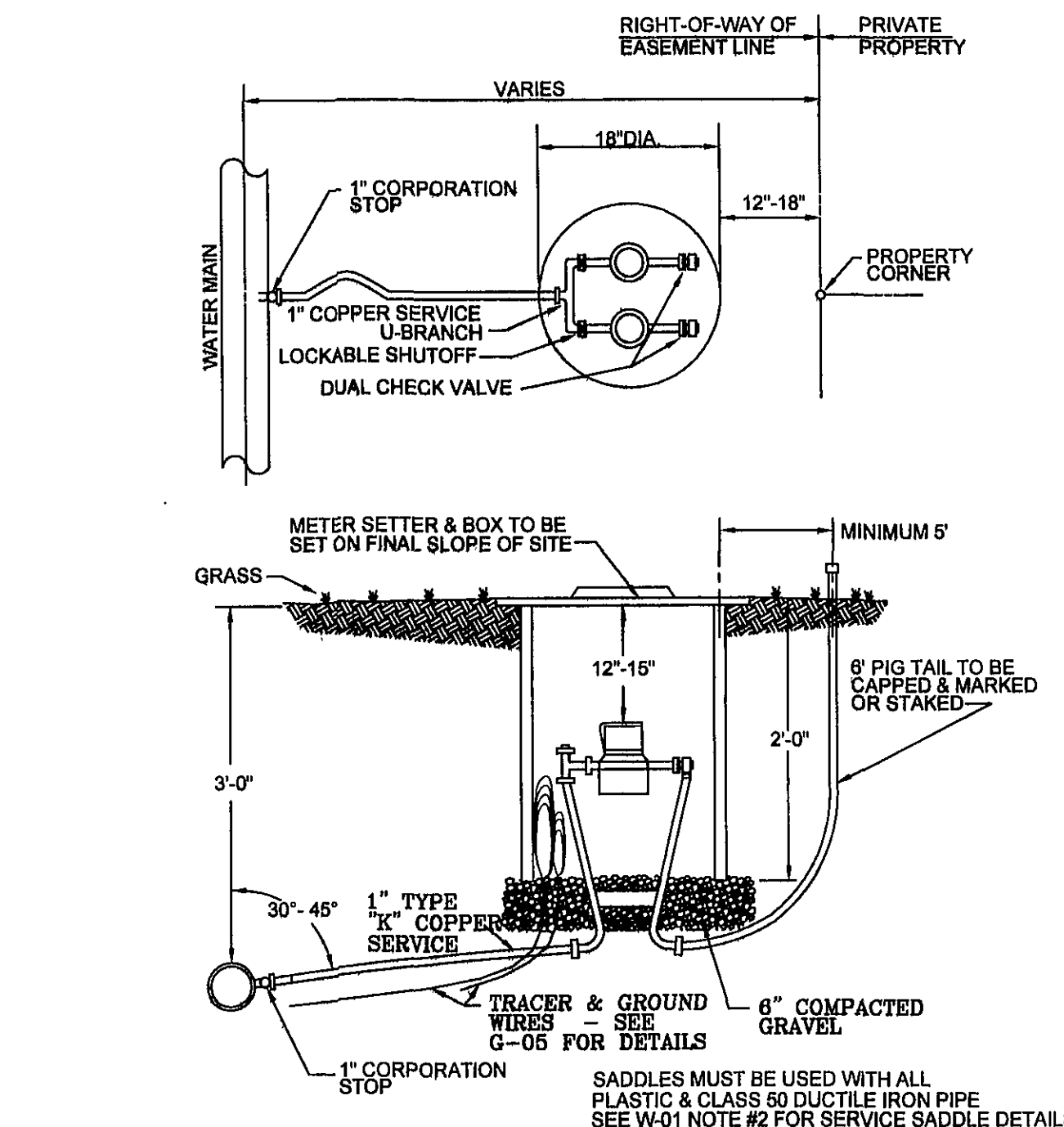
REVISION DATE	AUTOMATIC AIR RELEASE ASSEMBLY	W-12
07/01/04		
03/01/06		



WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

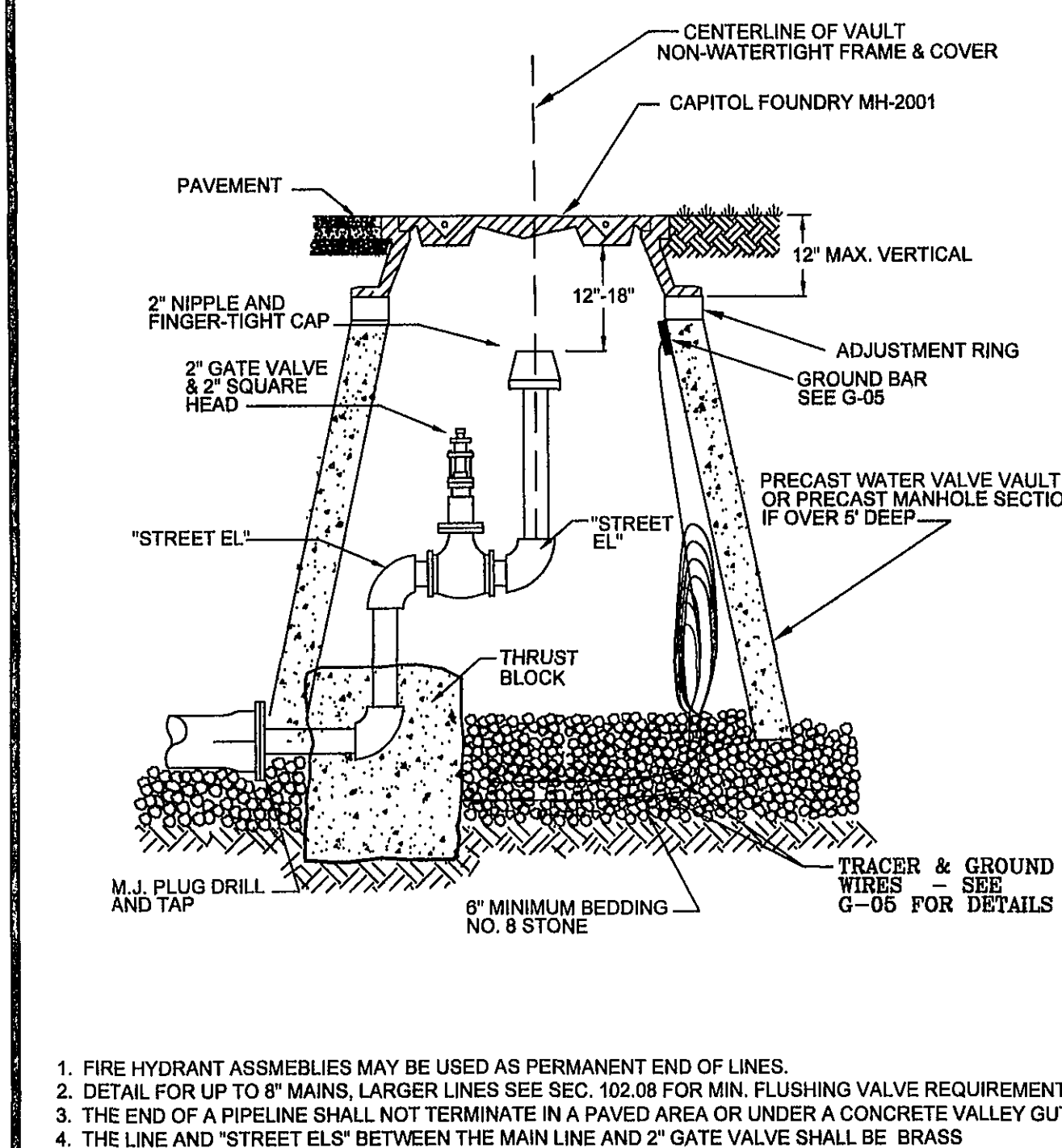
REVISION DATE	TYPE "B" SINGLE RESIDENTIAL WATER SERVICE (LINE PRESSURE UNDER 80 TO 120 PSI)	W-02
07/01/04		
03/01/06		

1. SETTER TO BE A.Y. McDONALD #20-215 WDD33, FORD VBH72-15W-1133 OR APPROVED EQUAL.
2. METER BOX MUST BE CARSON MID-STATES PLASTICS, INC. PLASTIC BOX WITH FORD A32-T (ELECTRONIC READ LID) OR A.Y. McDONALD MODEL 74M32C-TC CAST IRON BASE & COVER OR APPROVED EQUAL.
3. CORPORATION STOP MUST BE FORD F1000-4-B OR APPROVED EQUAL.



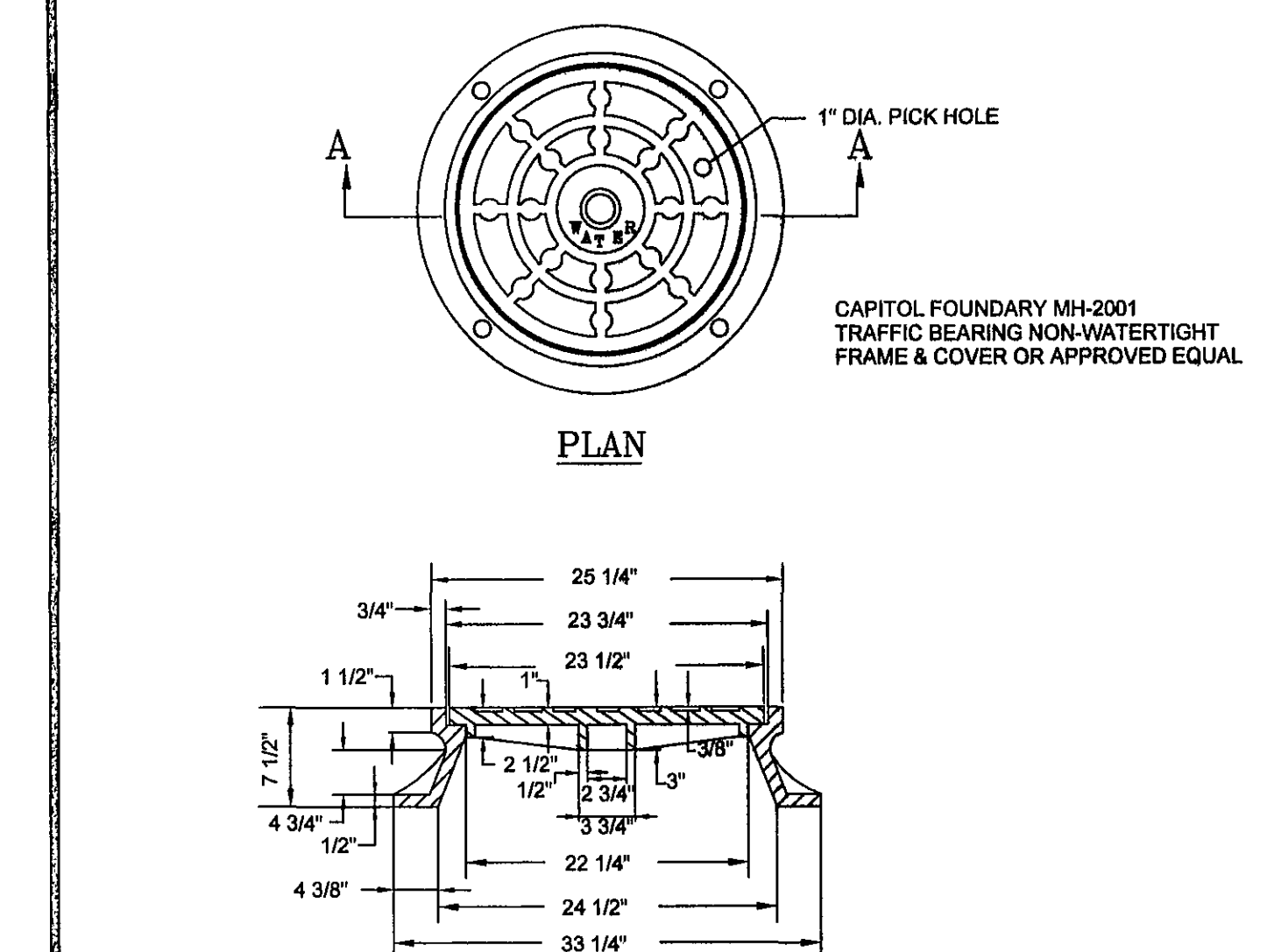
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION DATE	DOUBLE RESIDENTIAL WATER SERVICE	W-04
07/01/04		
03/01/06		



WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION DATE	PERMANENT END OF LINE	W-09
07/01/04		
03/01/06		



WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

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