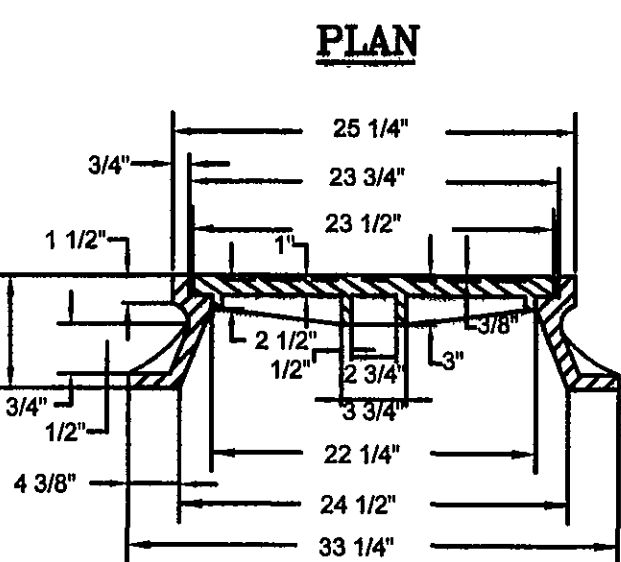
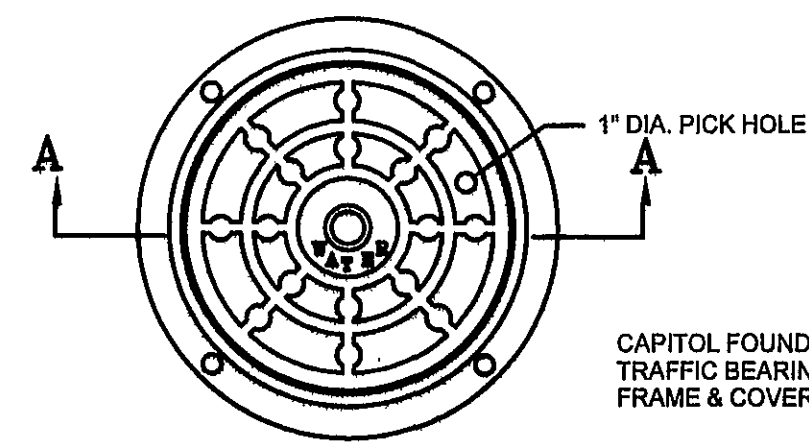
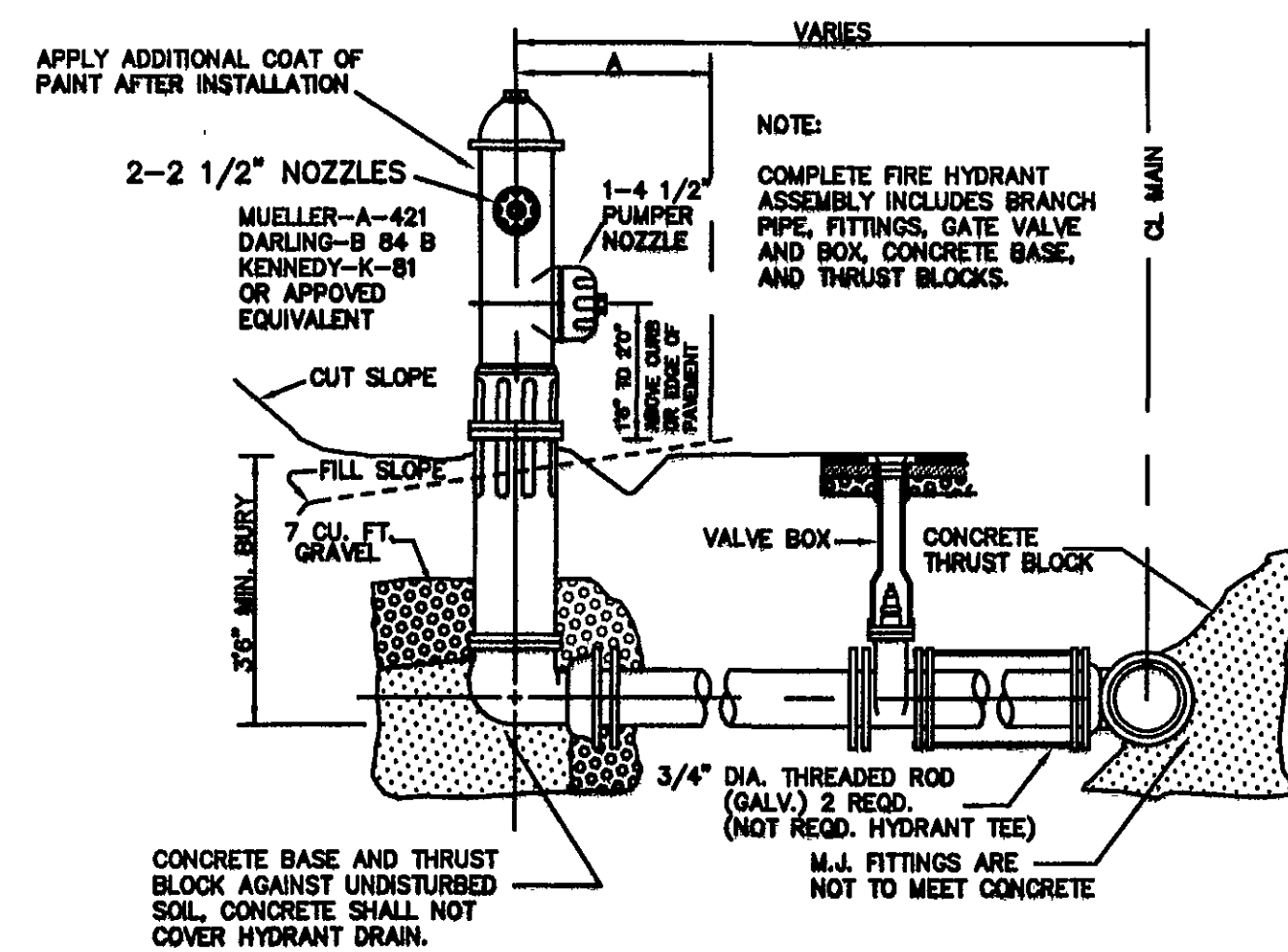


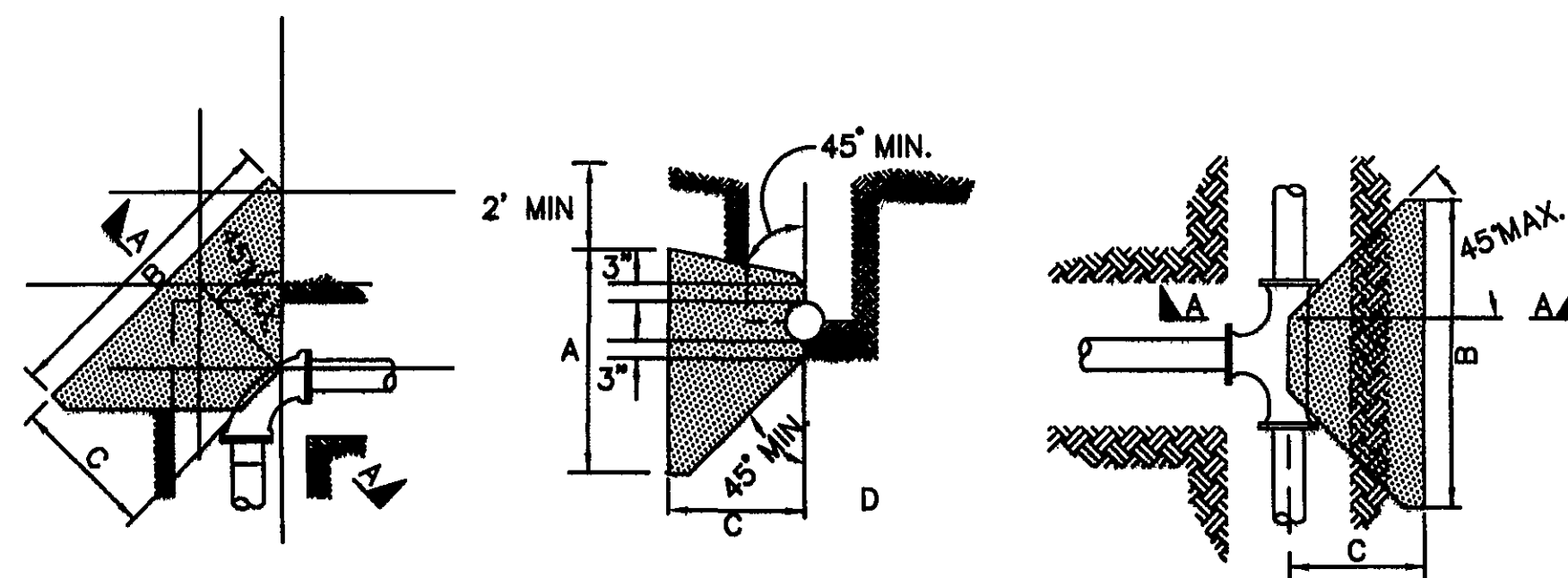


MANHOLE FRAME AND COVER

- NOTES:
- (1) MAIN BODY OF HYDRANT MUST BE PRIMED WITH ONE COAT ZINC CHROMATE PRIMER AND FINISHED WITH ALUMINUM OR SILVER PAINT. FIRE MARSHALL WILL COLOR-CODE THE CAPS AFTER FLOW TESTING.
 - (2) DISTANCE "A" WITH CURB AND GUTTER, 2" MIN., 4" MAX. FROM BACK OF CURB.
 - (3) DISTANCE "A" WITHOUT CURB AND GUTTER, 6" MIN., 12" MAX. FROM EDGE OF PAVEMENT.
 - (4) AREA AROUND HYDRANT AT A RADIUS OF 4' TO BE APPROXIMATELY LEVEL AND UNOBSTRUCTED FOR ROAD CONSTRUCTION.



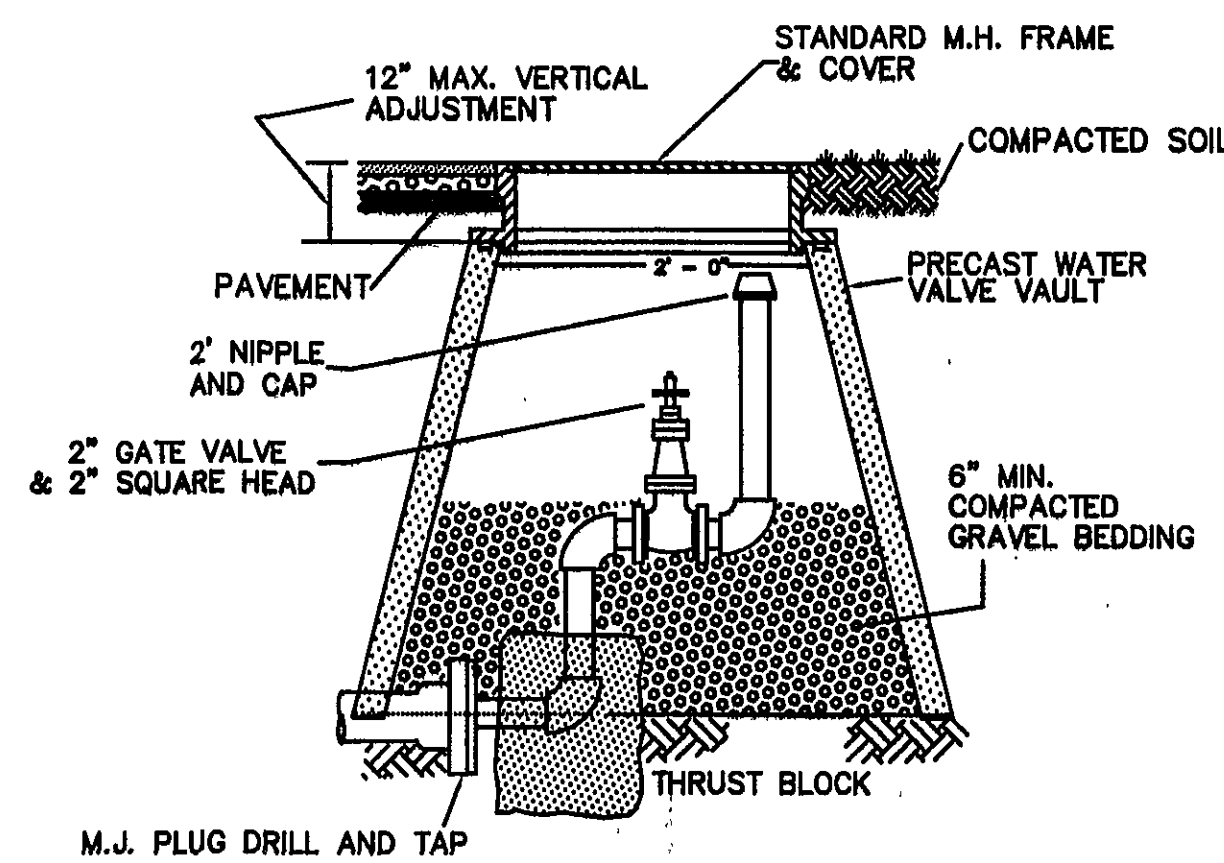
FIRE HYDRANT SETTING



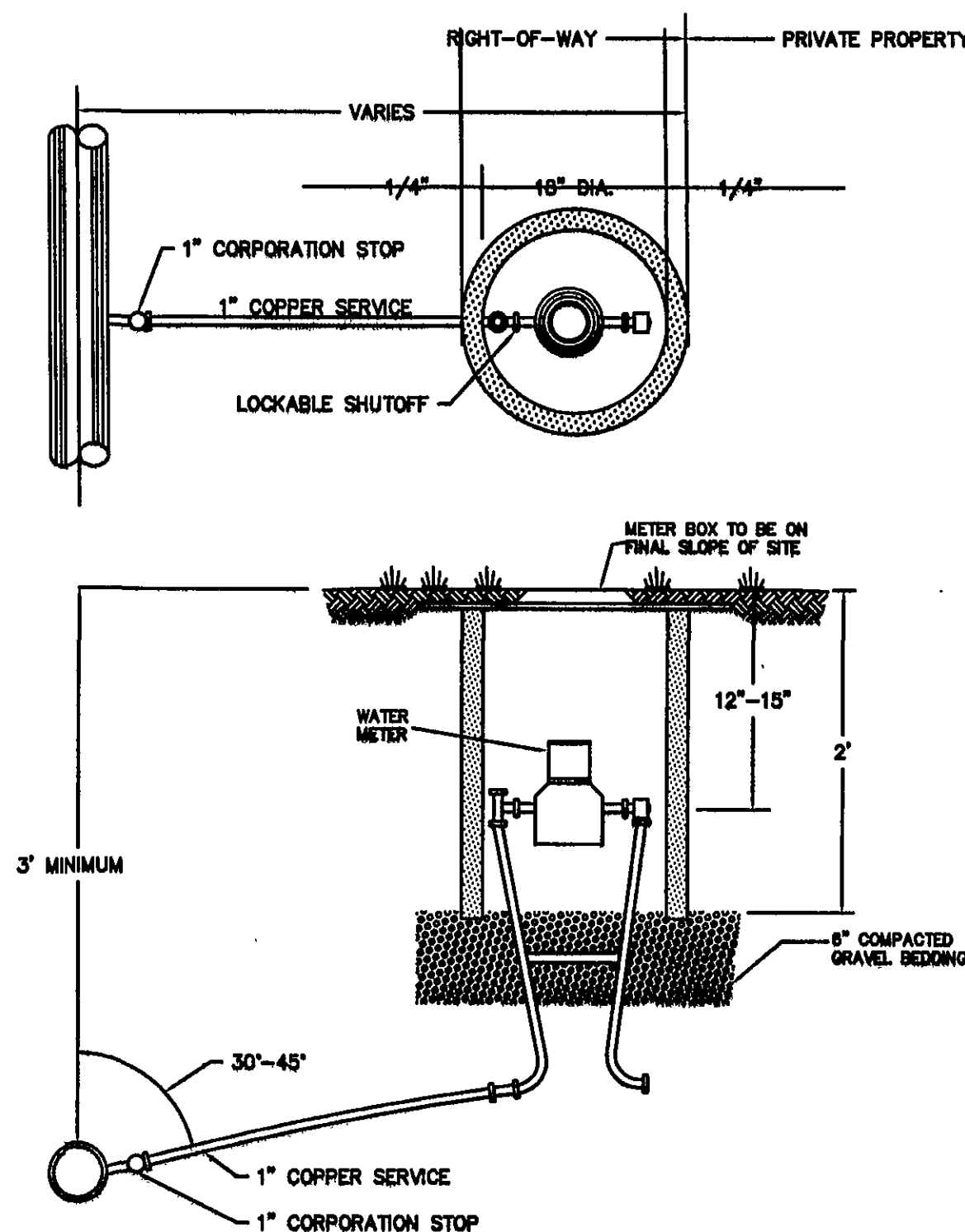
PIPE SIZE	TEE OR DEAD END	90° BEND	45° BEND	22.5° LESS BEND
6" OR LESS	A B C	A B C	A B C	A B C
8"	1.2 3.0 1.0	1.5 2.3 2.0	1.2 2.3 1.0	1.2 2.0 1.0
10"	2.0 4.0 2.0	2.5 3.8 2.5	1.7 2.8 2.0	1.8 2.8 1.8
12"	2.5 5.0 2.0	3.0 4.8 2.8	2.2 3.0 2.5	1.7 3.3 1.8
16"	3.5 7.0 3.0	4.5 6.0 3.8	3.0 4.0 3.0	2.5 4.0 2.0
24"	5.0 10.0 4.0	6.0 8.0 5.0	4.0 5.0 4.0	3.0 6.0 3.0

- NOTES:
1. THE ABOVE NOTED DIMENSIONS ARE MINIMUM BASED ON CONCRETE ANCHOR EXTENDING TO UNDISTURBED SOIL. LINE PRESSURE NOT TO EXCEED 180 PSI AND MINIMUM SOIL BEARING CAPACITY OF 2500 PSF. UNSATISFACTORY SOIL BEARING OR EXCESS PRESSURE WILL REQUIRE ADDITIONAL DESIGN.
 2. CONCRETE SHALL NOT BE POURED ON JOINTS OR BOLTS.
 3. CONCRETE TO BE MINIMUM 3000 PSI - 28 DAY COMPRESSIVE STRENGTH.

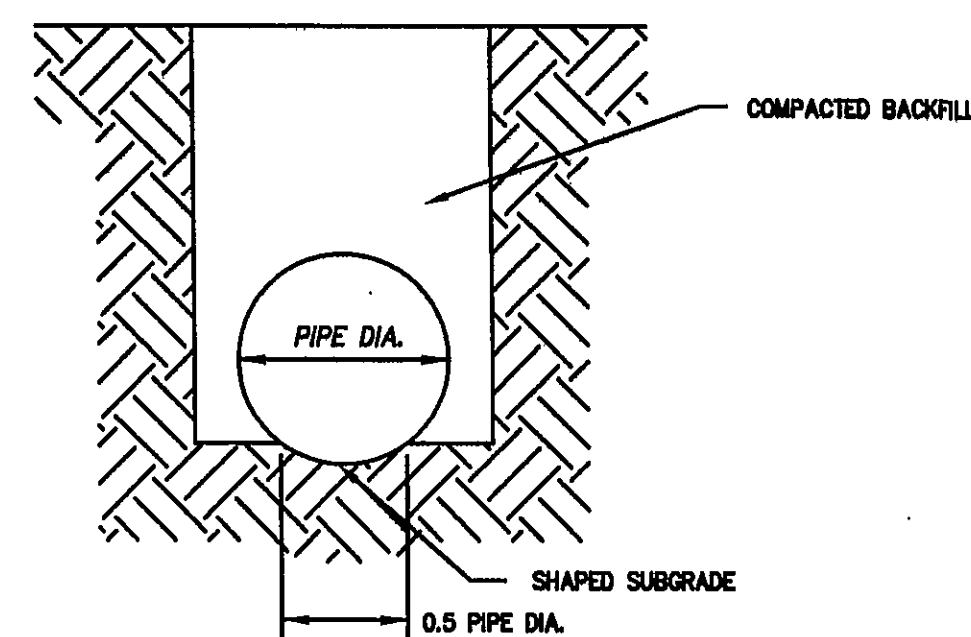
THRUST BLOCK FOR HORIZONTAL AND LOWER VERTICAL BENDS



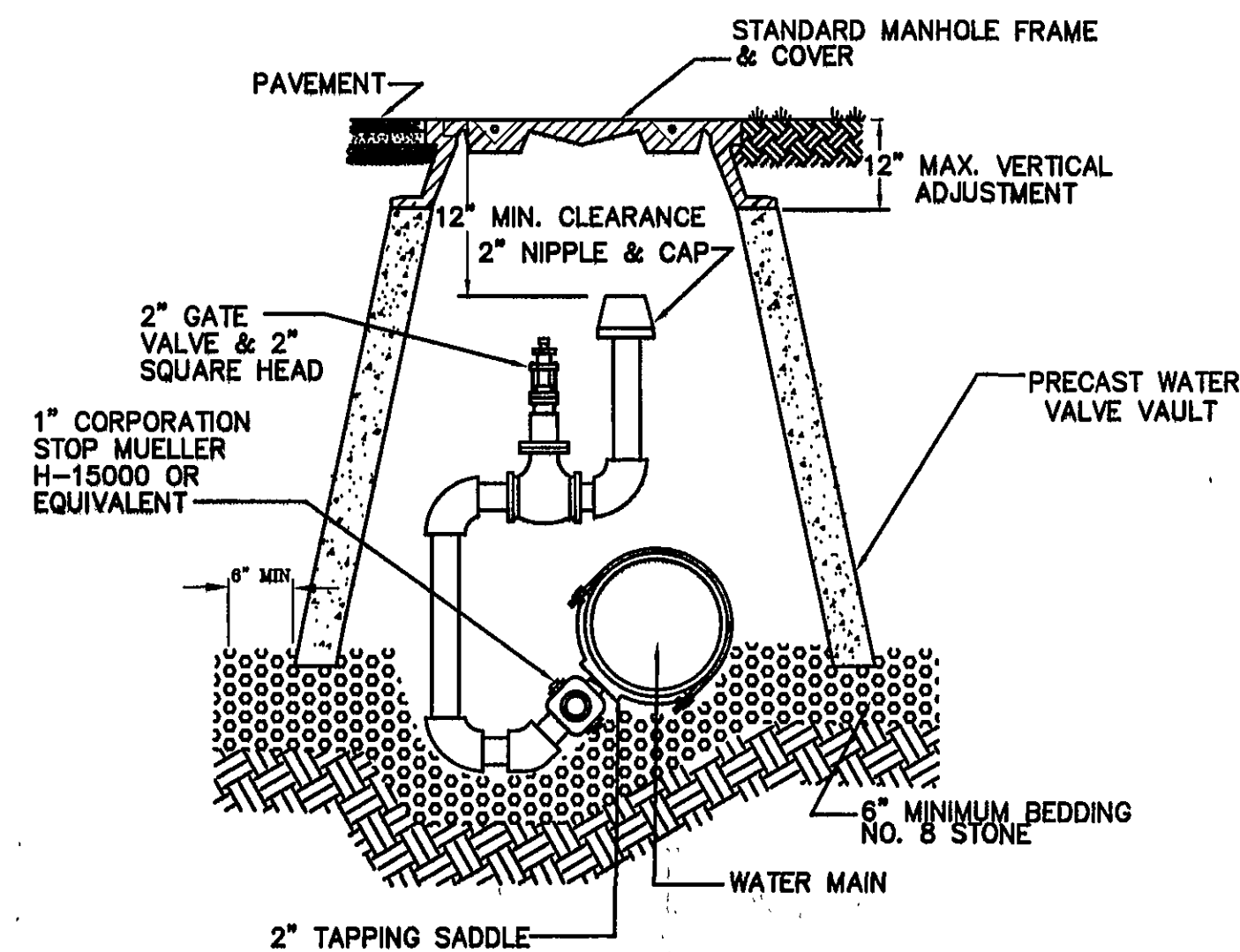
PERMANENT END OF LINE



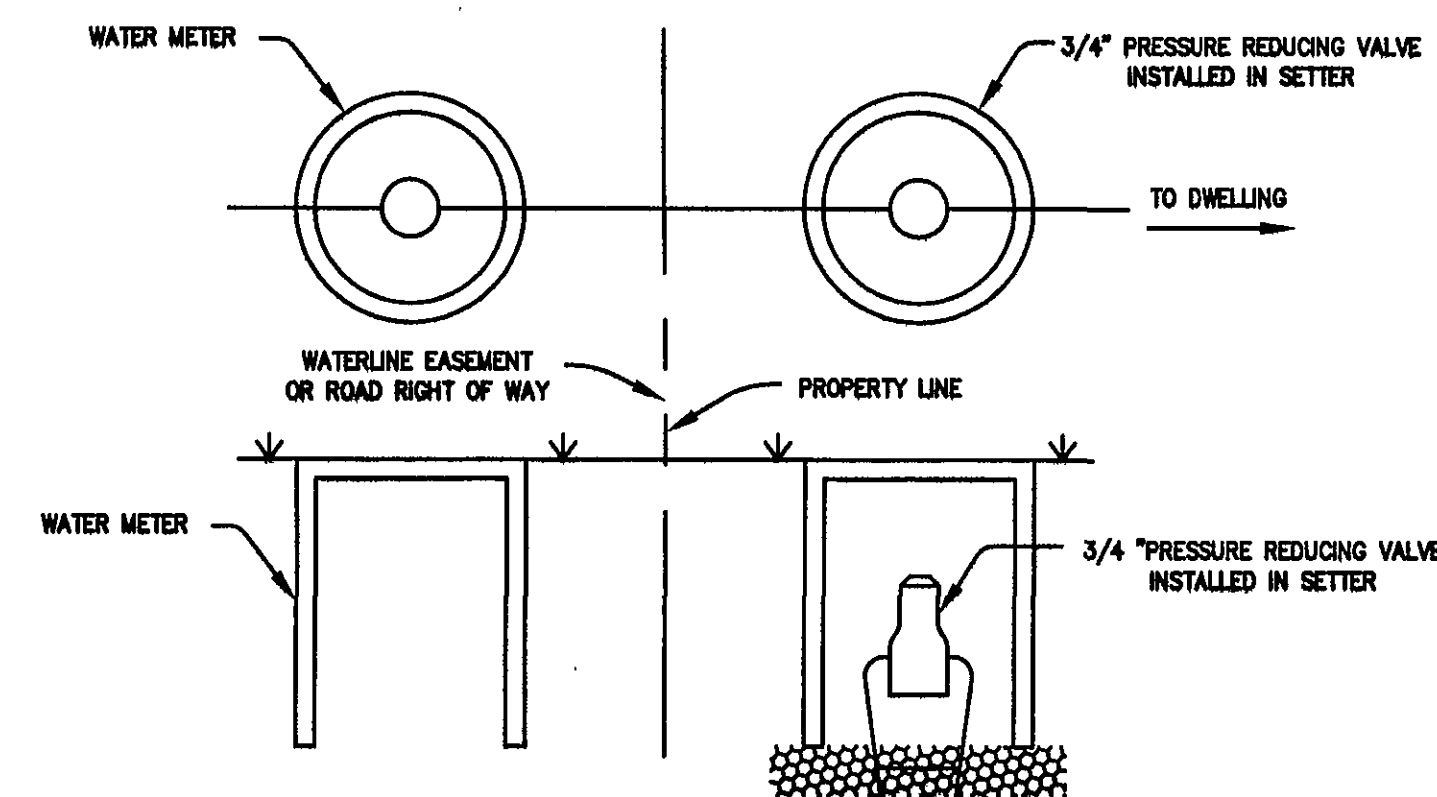
SINGLE RESIDENTIAL WATER SERVICE



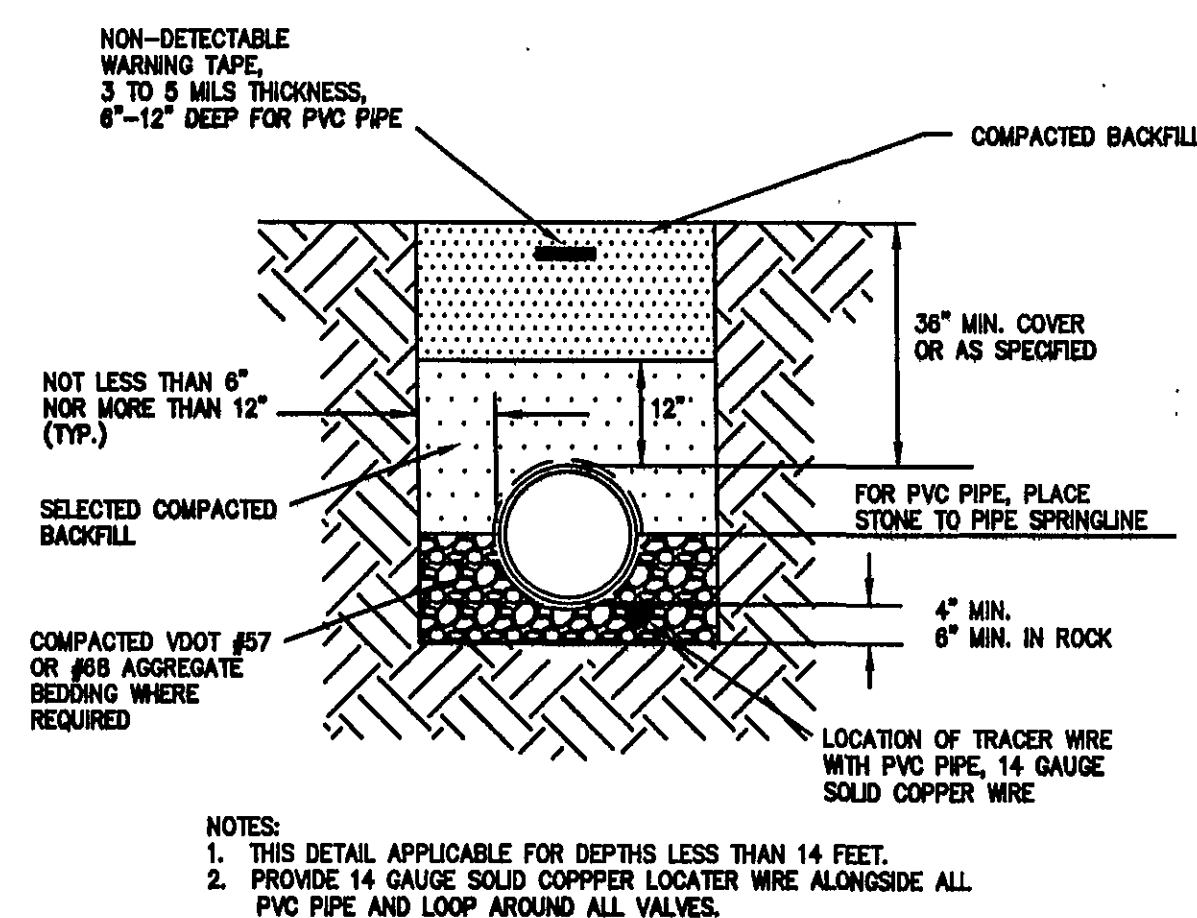
PIPE BEDDING DETAIL (CLASS 'C')



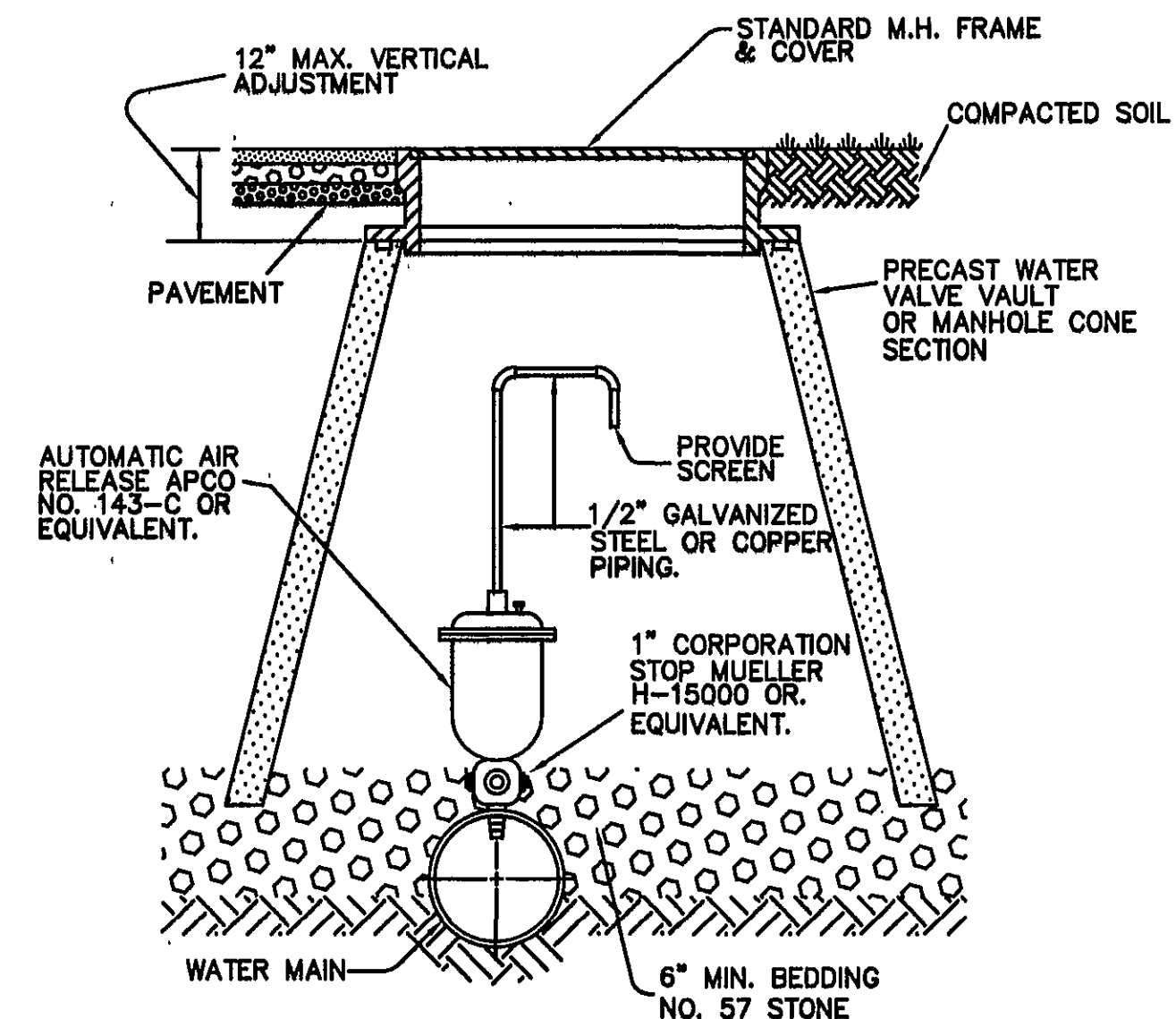
INLINE BLOW-OFF ASSEMBLY



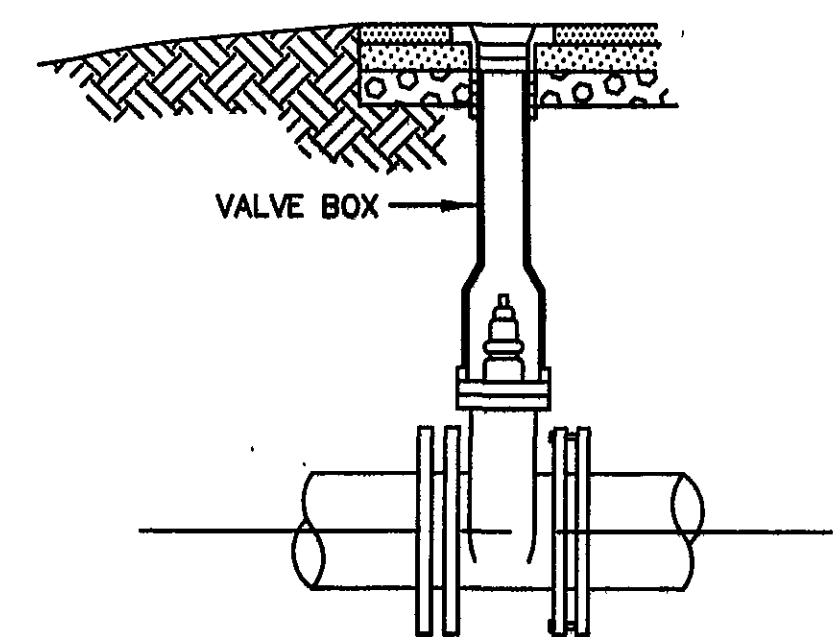
PRESSURE REDUCING VALVE DETAIL



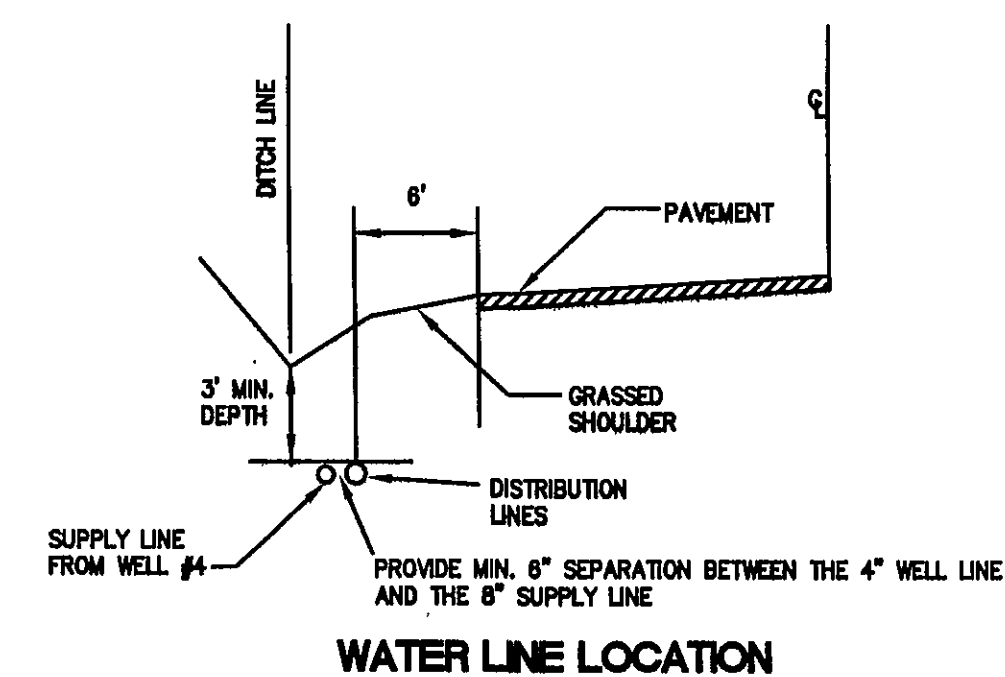
PVC WATER MAIN TRENCH



AUTOMATIC AIR RELEASE ASSEMBLY



WATER LINE VALVE INSTALLATION



WATER LINE LOCATION

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

DATE: OCTOBER 02, 2007

SCALE: NONE

COMMISSION NO. 2005-213

SHEET 21 OF 22