

PIPE SIZE	PIPE O.D.	MIN. "D"
4"	4.80"	6.6"
6"	6.90"	9.0"
8"	9.05"	11.4"
10"	11.10"	13.7"
12"	13.20"	16.1"
14"	15.30"	18.5"
16"	17.40"	20.9"
18"	19.50"	23.3"
20"	21.60"	25.7"

WHEN INSTALLING PVC FORCE MAIN, INSTALL VALVE AT MIDPOINT OF 18' JOINT OF DUCTILE IRON PIPE.

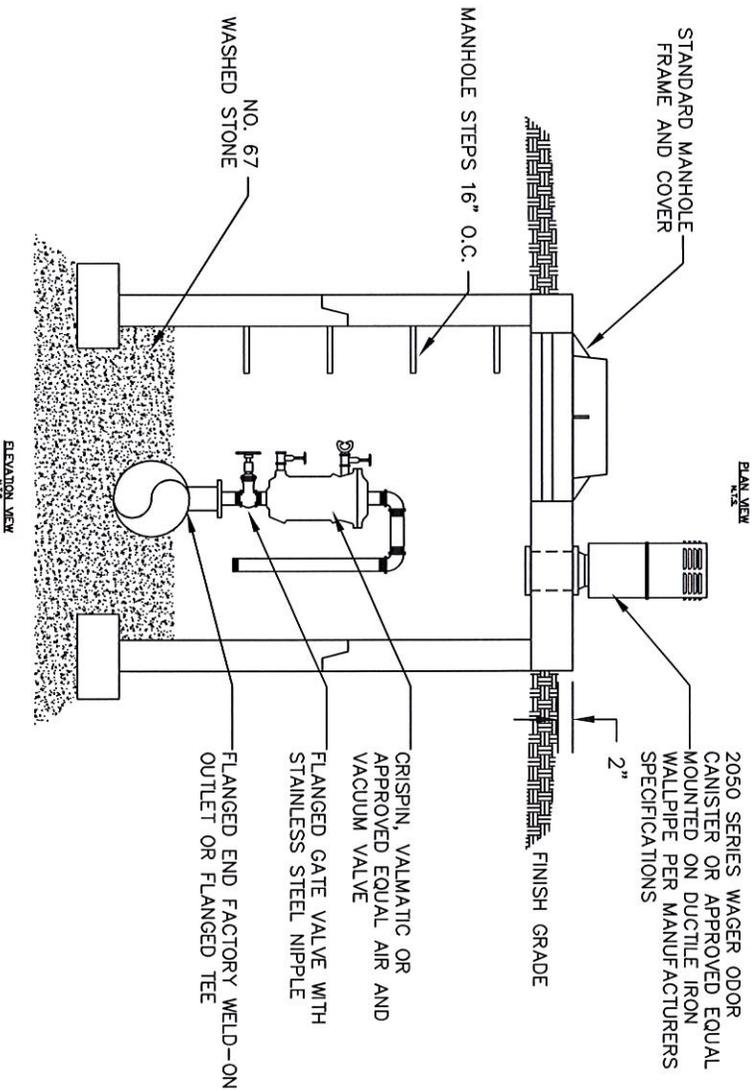
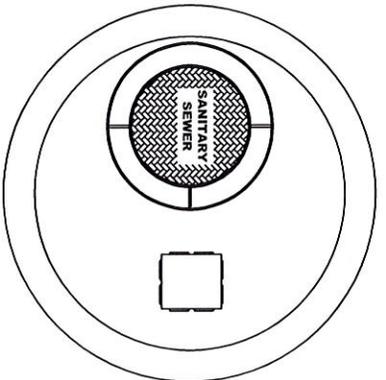
NOTES:

1. ALL CONCRETE SHALL BE 3000 PSI COMPRESSIVE STRENGTH.
2. ALL VALVES SHALL OPEN COUNTER CLOCKWISE.
3. FRAME TO BE FLUSH WITH GROUND IN ROAD R/W AND 2' ABOVE GROUND IN SEWER R/W.
4. ALL PIPE AND FITTINGS TO BE STAINLESS STEEL OR EPOXY LINED DIP.
5. MANHOLE SHALL CONFORM TO SPECIFICATIONS.
6. AIR AND VACUUM VALVE TO BE LONG BODY TYPE, SIZED PER MANUFACTURER'S RECOMMENDATION, FURNISHED WITH BACK FLUSHING ATTACHMENTS.
7. MANHOLE FRAME AND COVER TO BE ANCHORED TO MANHOLE WITH RED JACKET MASONRY ANCHORS OR EQUAL AND THOROUGHLY SEALED TO CONCRETE WITH TAR SEALANT PUTTY.

REVISIONS

NO.	DATE	DESCRIPTION
1	4/16	ADDED ODOR CANISTER

**YORK COUNTY
ENGINEERING
STANDARDS**



**SEWER FORCEMAIN
AIR AND VACUUM VALVE INSTALLATION**

STD. NO. 13.04
DATE 04/16