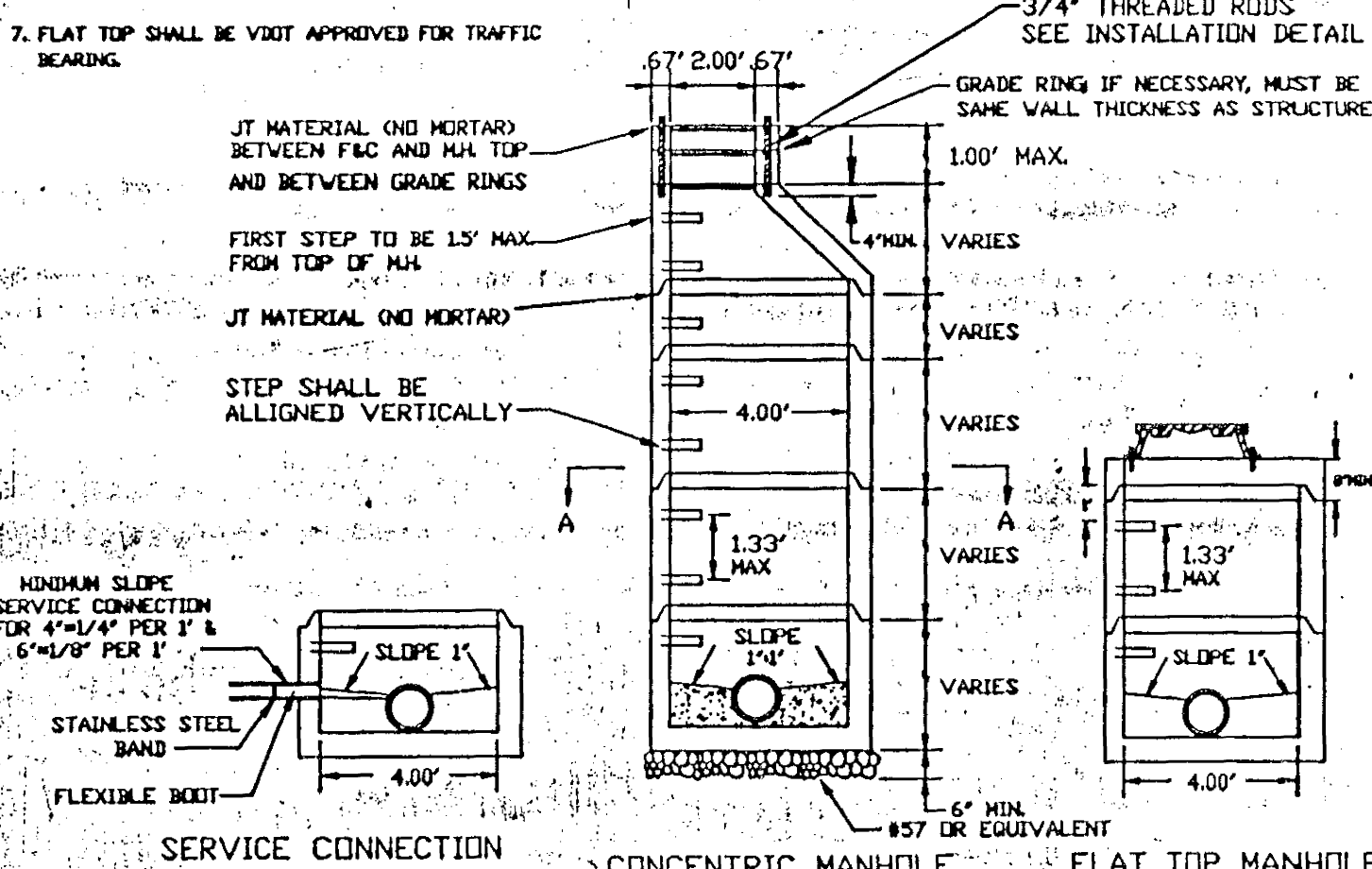
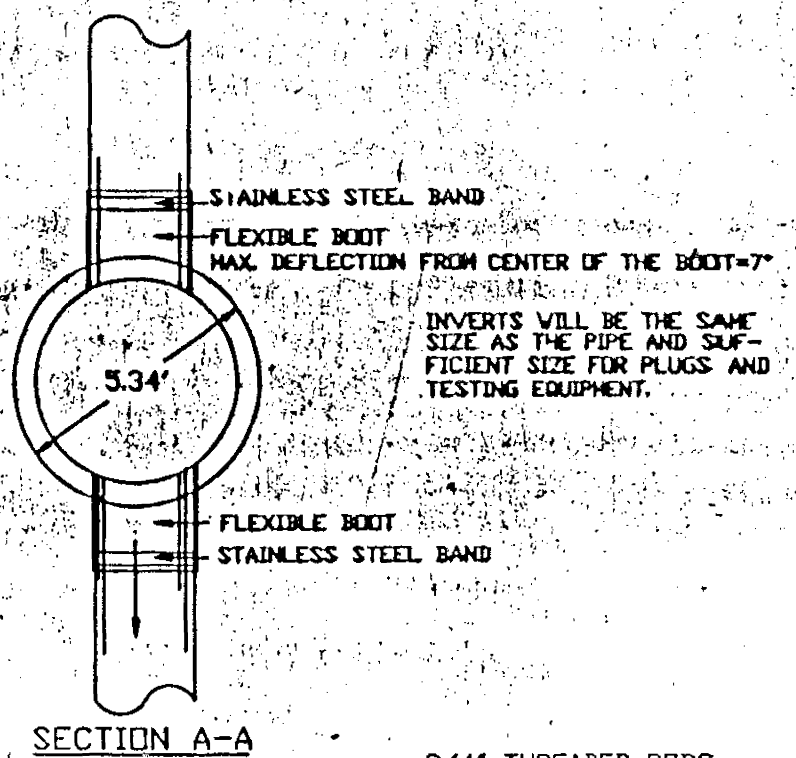


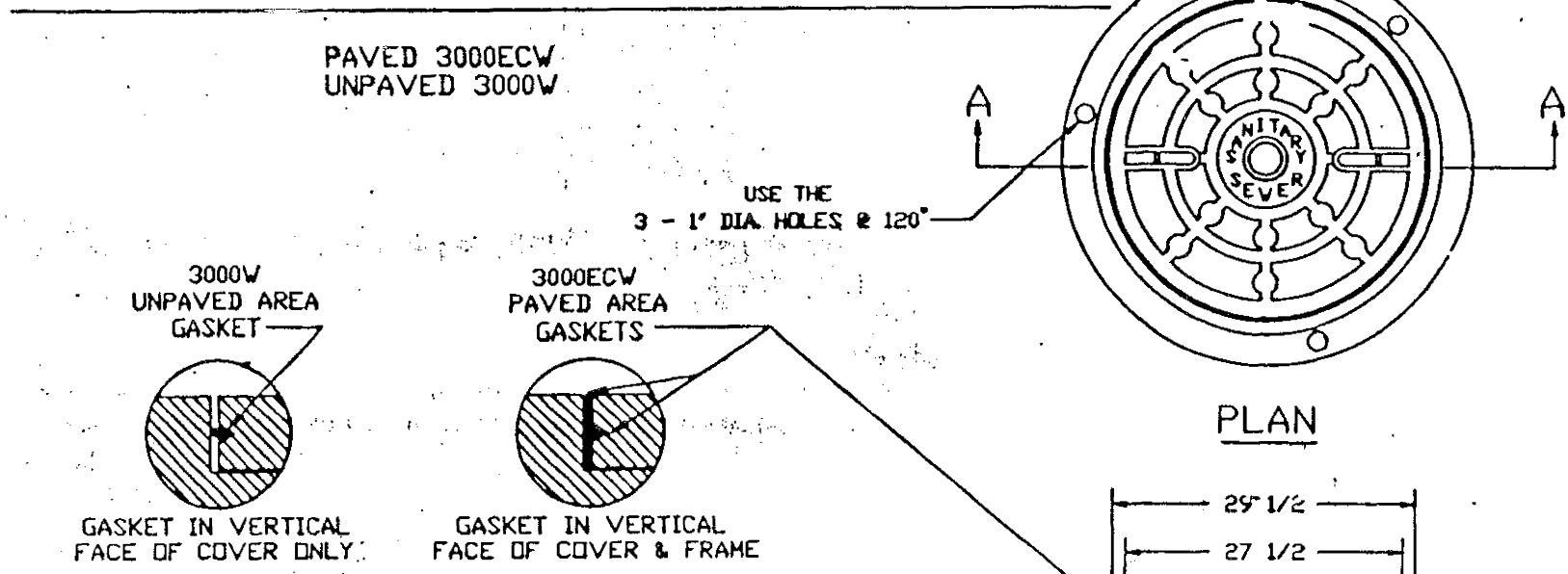
NOTES

1. ALL MANHOLE FRAMES AND COVERS SHALL BE DEVEY BROTHERS, INC. MH-RCR-3000V IN NON-PAVED AREAS, MH-RCR-3000ECV IN PAVED AREAS, MH-RCR-3000 IN AREAS NOT SUBJECT TO FLOODING OR APPROVED EQUAL.
2. THE FIRST STEP IN THE ECCENTRIC MANHOLE SHALL BE 1 FOOT FROM THE TOP OF THE CONE SECTION AND A MAXIMUM OF 4.5 INCHES VIDE FROM THE INSIDE FACE OF THE CONE SECTION.
3. THE FRAME AND COVER SHALL BE PROPERLY ALIGNED WITH THE 2 FOOT OPENING OF THE MANHOLE STRUCTURE AND BOLTED IN PLACE.
4. ALL SAMPLING MANHOLES SHALL BE CONSTRUCTED AS PER MANHOLE DETAILS. WHEN NECESSARY, THE FLAT TOP MANHOLE MAY BE SUBSTITUTED WITH ECCENTRIC DOWING AT STEPS.
5. AN ASPHALT COATING SHALL BE REQUIRED ON THE OUTSIDE OF ALL MANHOLES.
6. THE FRAME MUST BE IN PLACE PRIOR TO VACUUM TESTING.
7. FLAT TOP SHALL BE VOID APPROVED FOR TRAFFIC BEARING.



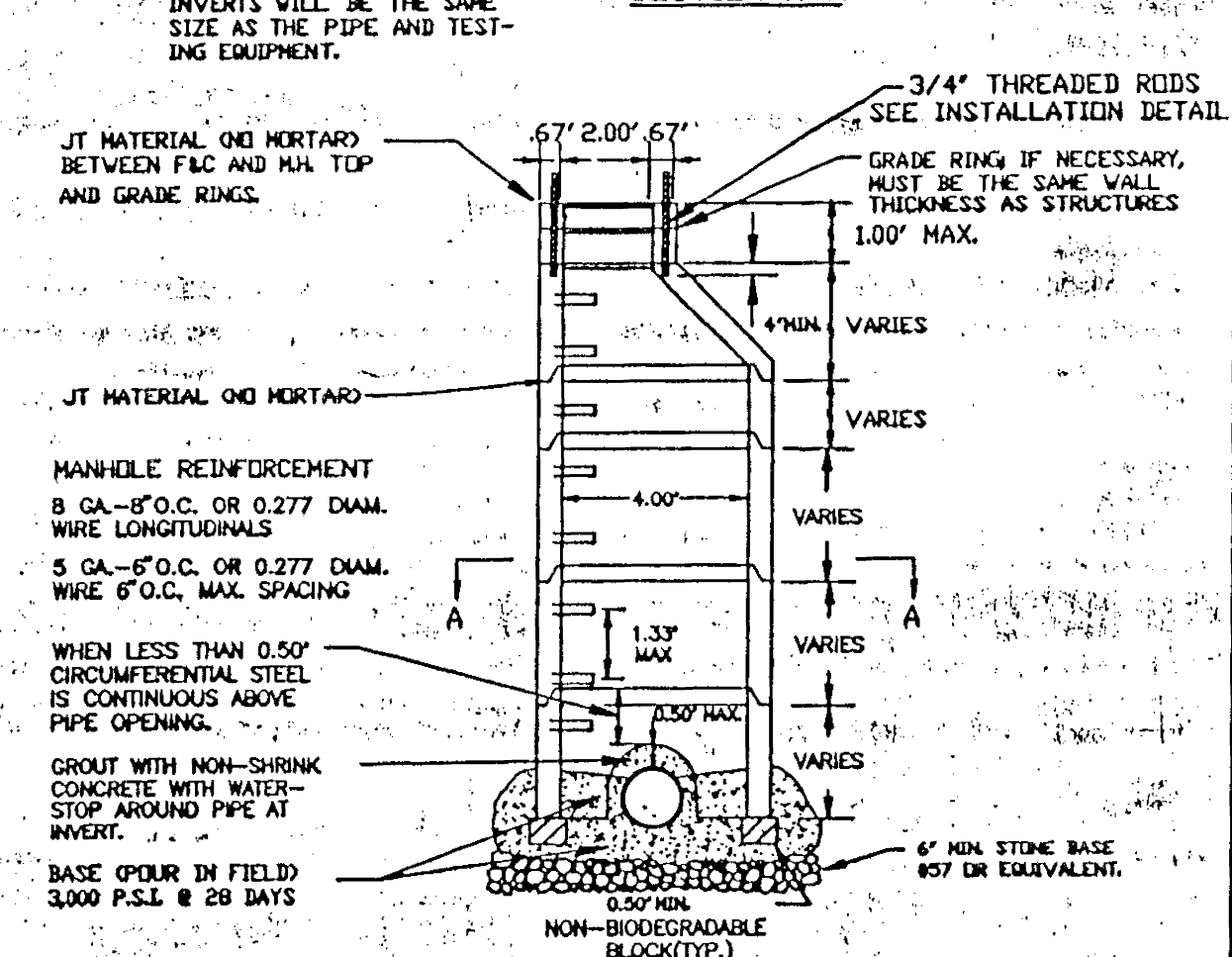
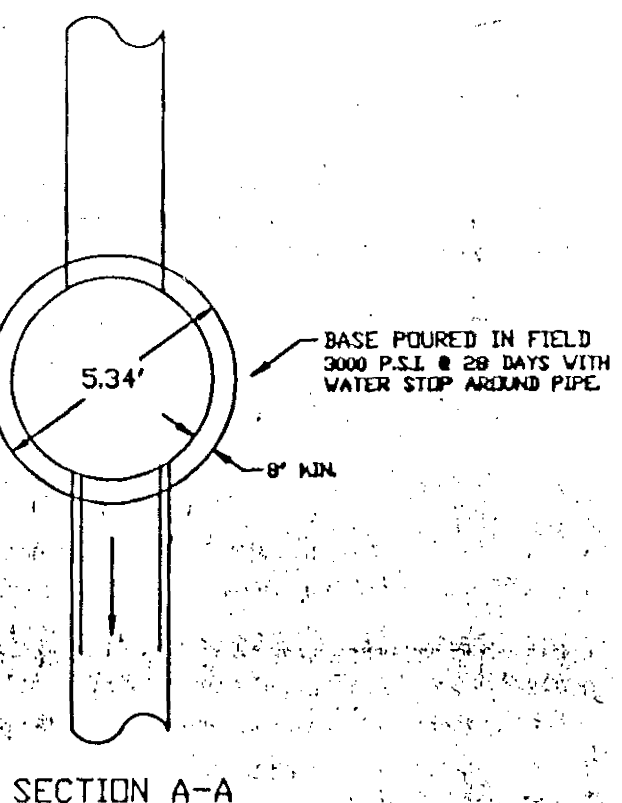
SAMPLING STRUCTURE DETAIL

WATERTIGHT MANHOLE FRAME AND COVER

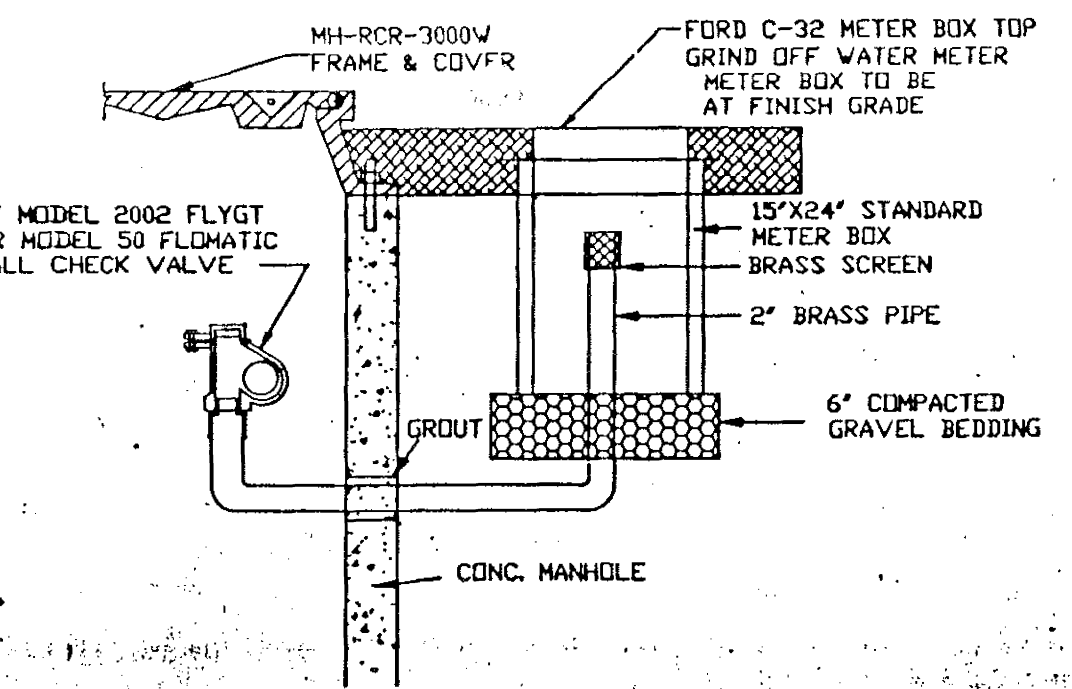


NOTES

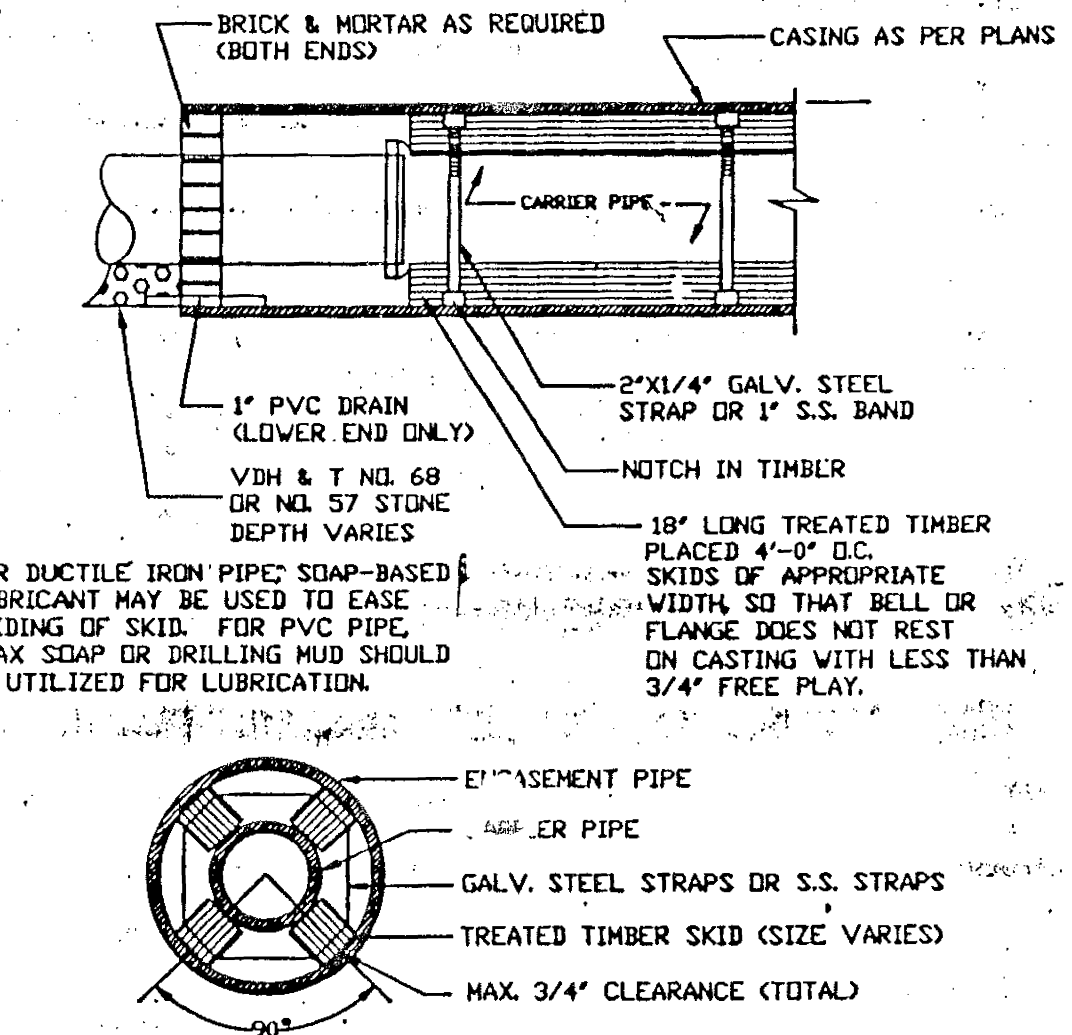
1. ALL MANHOLE FRAMES AND COVERS SHALL BE DEVEY BROTHERS, INC. MH-RCR-3000V IN NON-PAVED AREAS, MH-RCR-3000ECV IN PAVED AREAS, MH-RCR-3000 IN AREAS NOT SUBJECT TO FLOODING OR APPROVED EQUAL.
2. THE FIRST STEP IN THE ECCENTRIC MANHOLE SHALL BE 1 FOOT FROM THE TOP OF THE CONE SECTION AND A MAXIMUM OF 4.5 INCHES VIDE FROM THE INSIDE FACE OF THE CONE SECTION.
3. THE ENTIRE MANHOLE STRUCTURE INCLUDING FRAME AND COVER SHALL BE INSTALLED BEFORE CUTTING THE TOP OF THE SEWER PIPE IN THE MANHOLE. ROANOKE COUNTY PERSONNEL TO CUT EXISTING PIPE.
4. THE FRAME AND COVER SHALL BE PROPERLY ALIGNED WITH THE 2 FOOT OPENING OF THE MANHOLE STRUCTURE AND BOLTED IN PLACE.
5. FLAT TOP TO BE VOID APPROVED FOR TRAFFIC BEARING.
6. ASPHALT COATING SHALL BE REQUIRED ON OUTSIDE OF ALL MANHOLES.



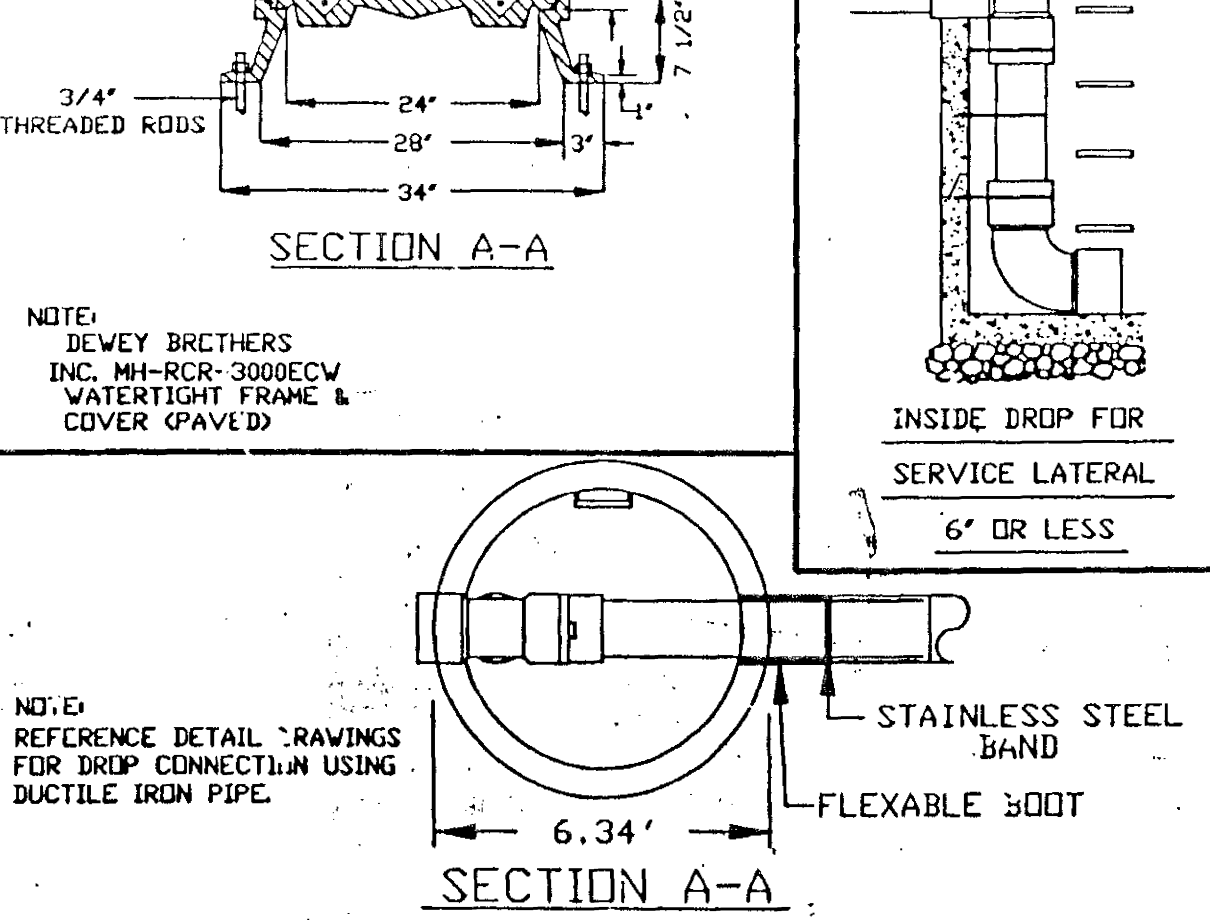
STRADDLE MANHOLE FOR PIPE 15" OR SMALLER



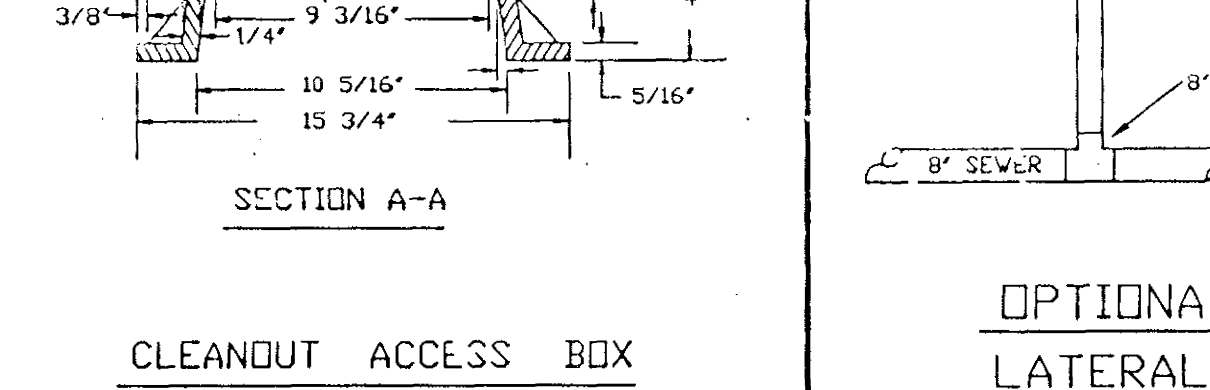
TYPE 2 MANHOLE VENT



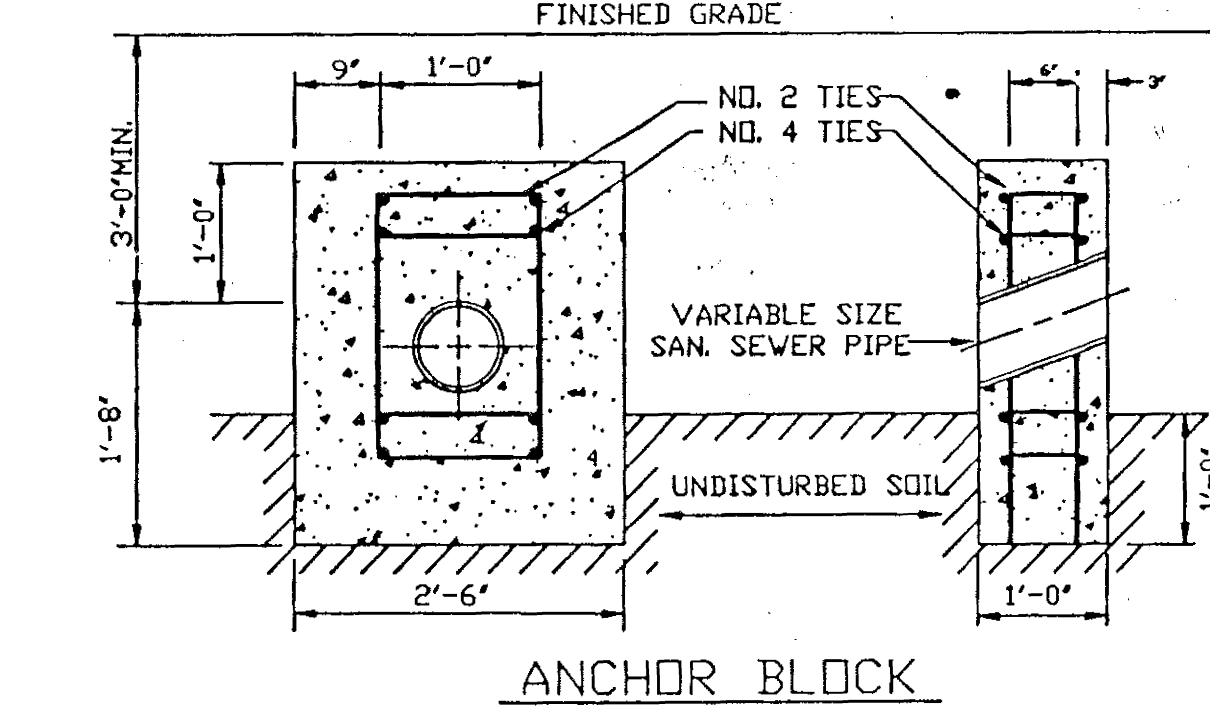
PIPE SUPPORT IN CASING PIPE



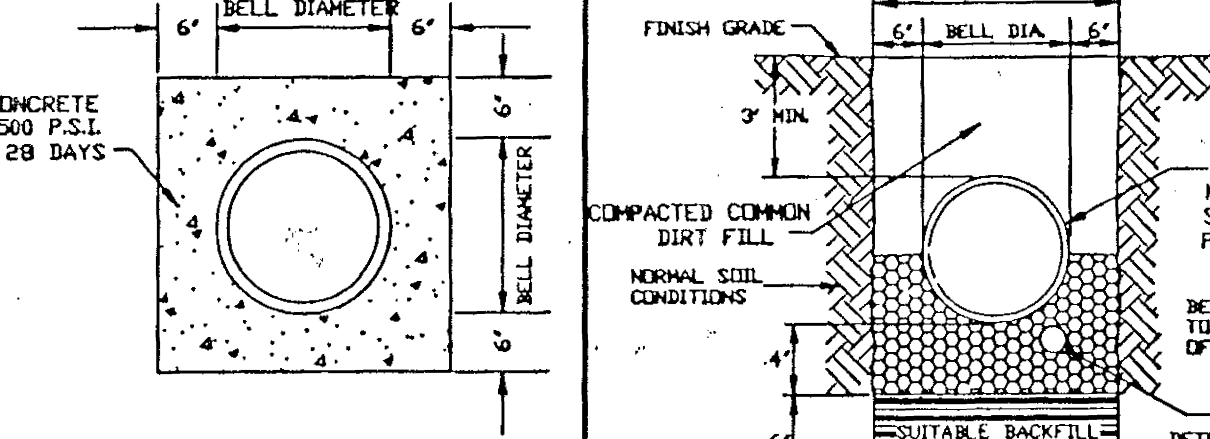
MAINLINE DROP MANHOLE (FOR USE WITH PVC PIPE)



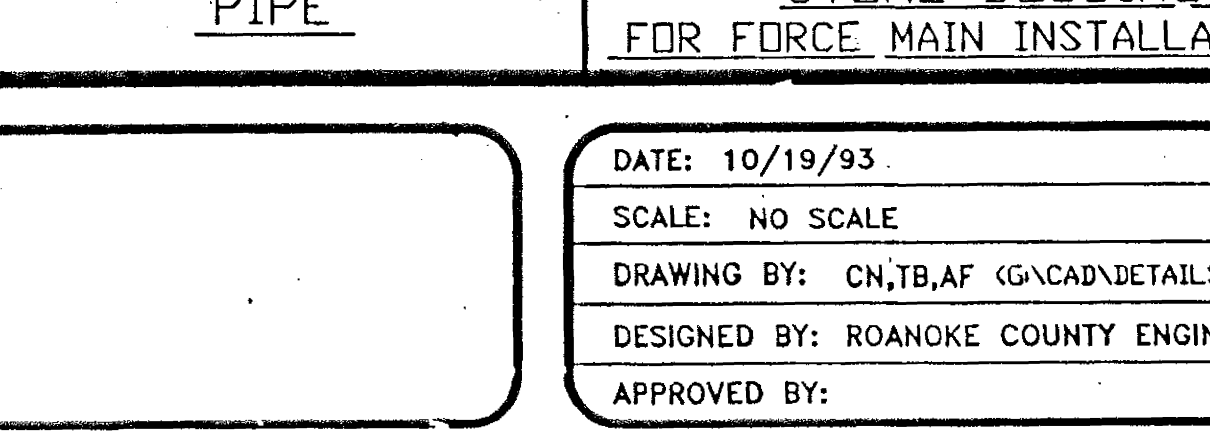
CLEANOUT ACCESS BOX



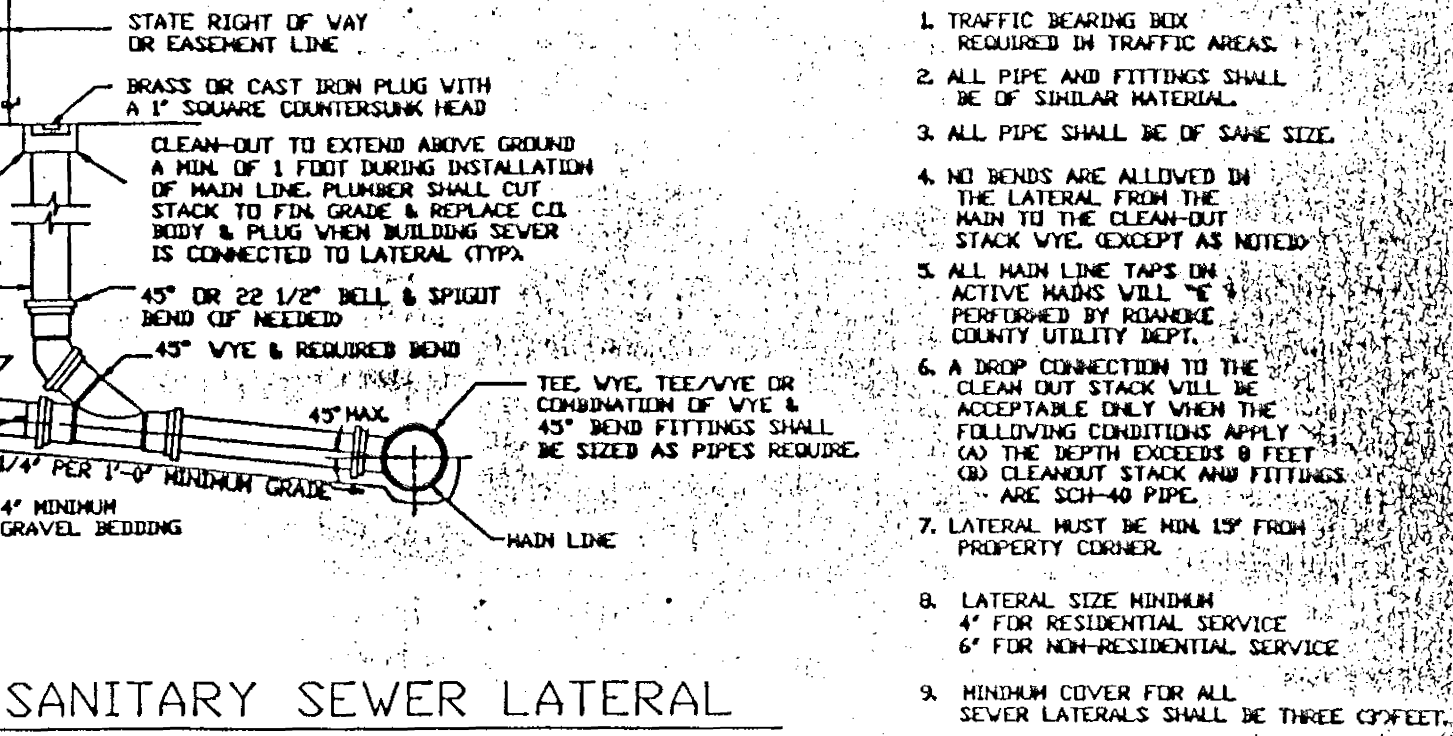
ANCHOR BLOCK



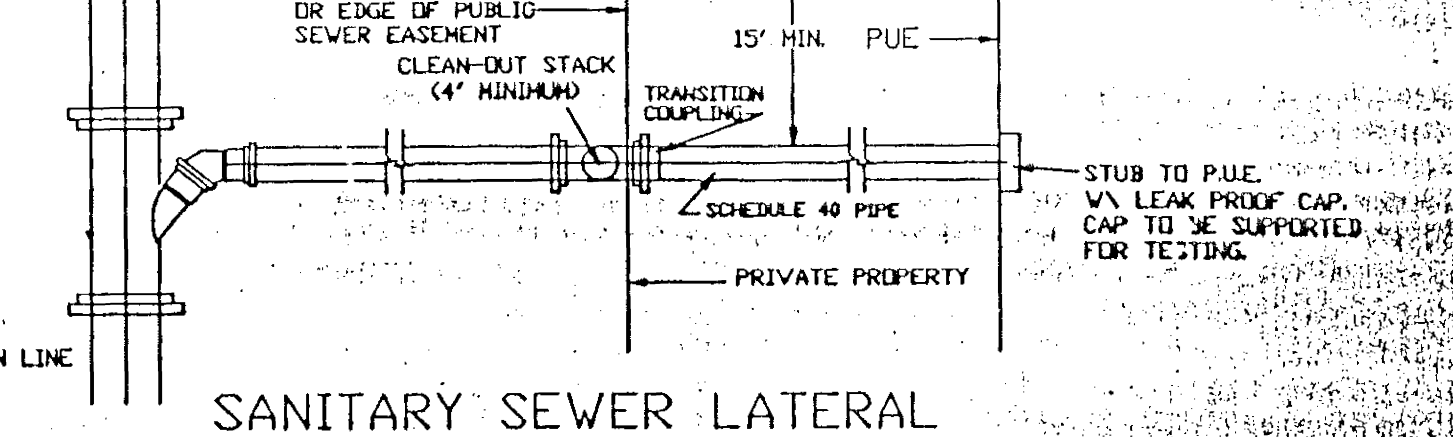
CONCRETE ENCASED PIPE



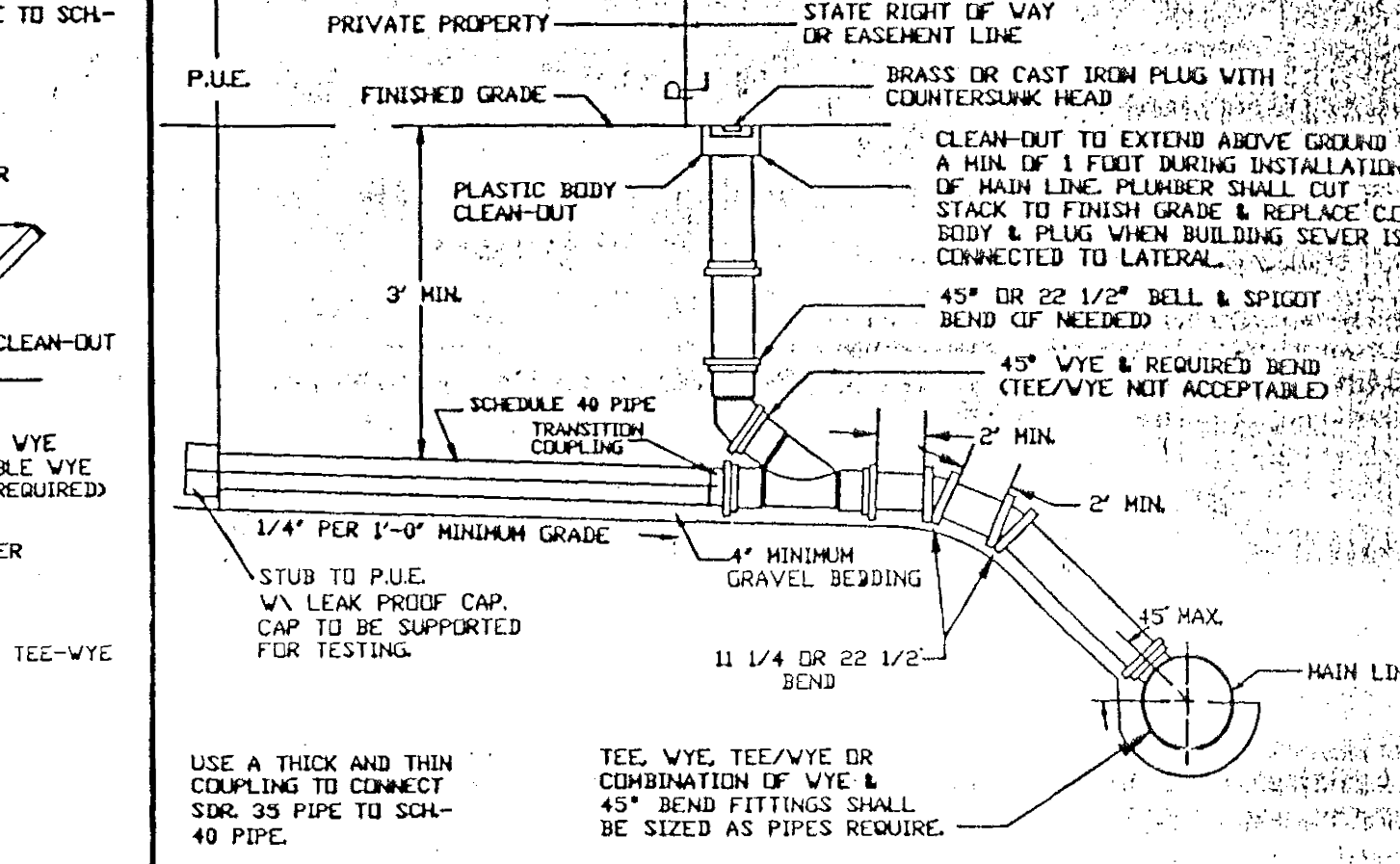
STONE BEDDING FOR FORCE MAIN INSTALLATION



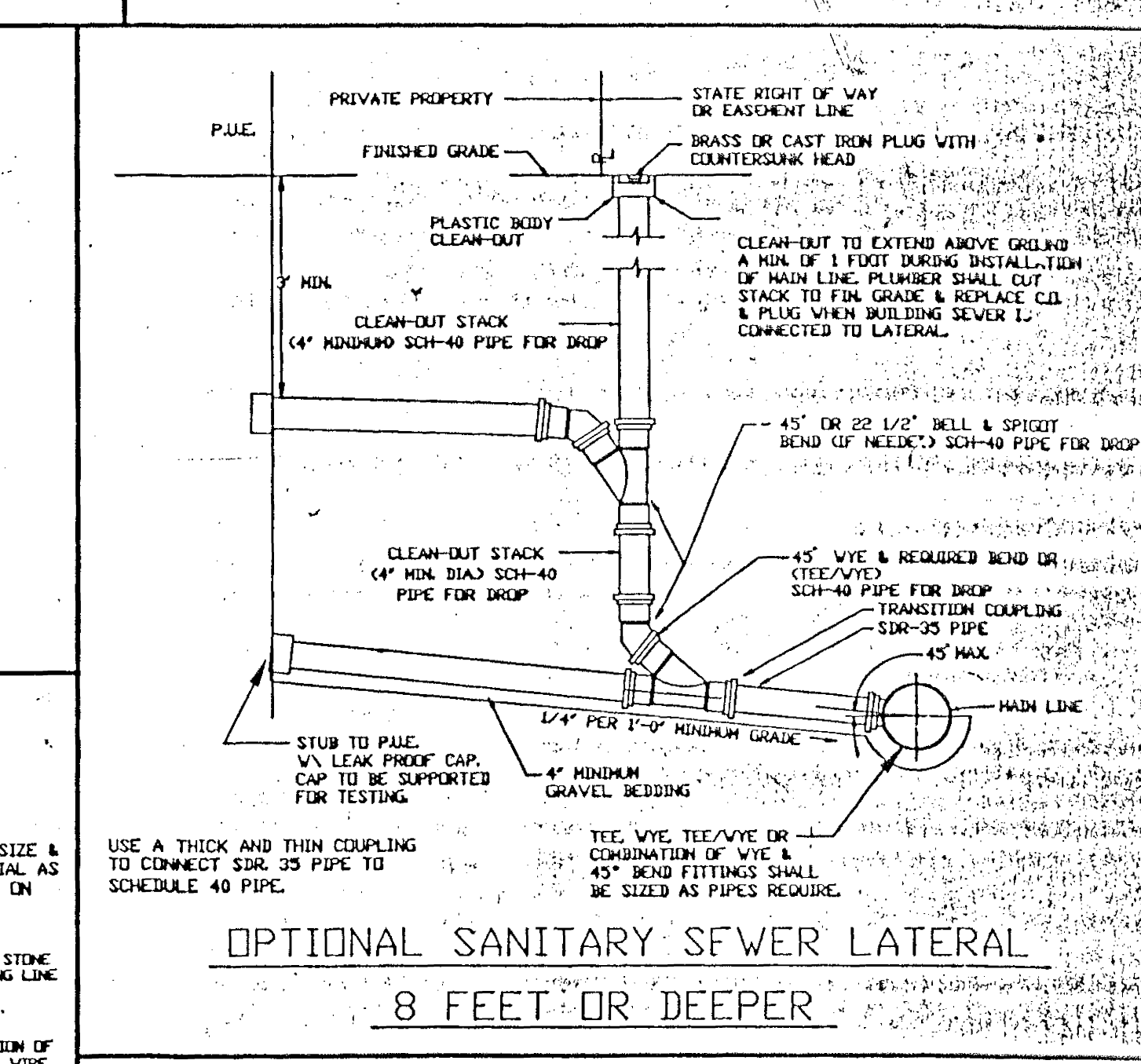
SANITARY SEWER LATERAL



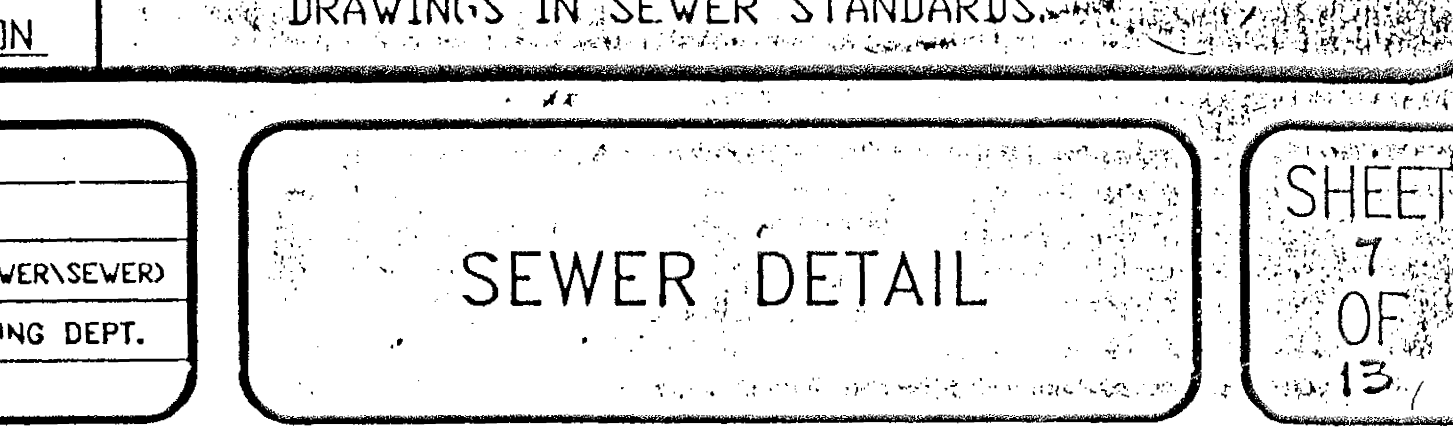
SANITARY SEWER LATERAL IN P.U.E.



OPTIONAL SANITARY SEWER LATERAL



OPTIONAL SANITARY SEWER LATERAL 8 FEET OR DEEPER



SANITARY SEWER LATERAL