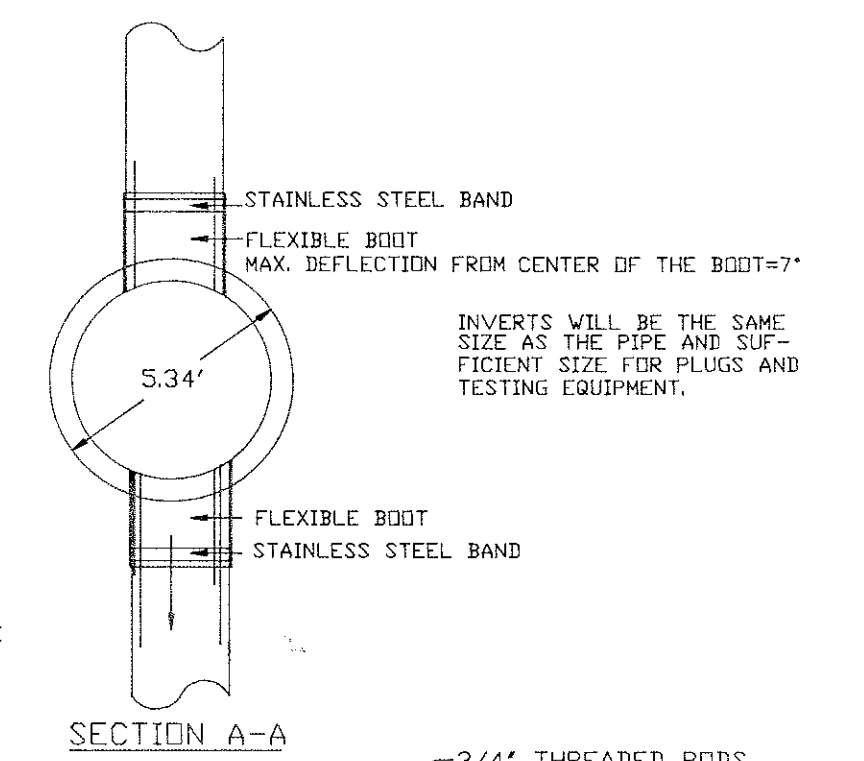


NOTES:

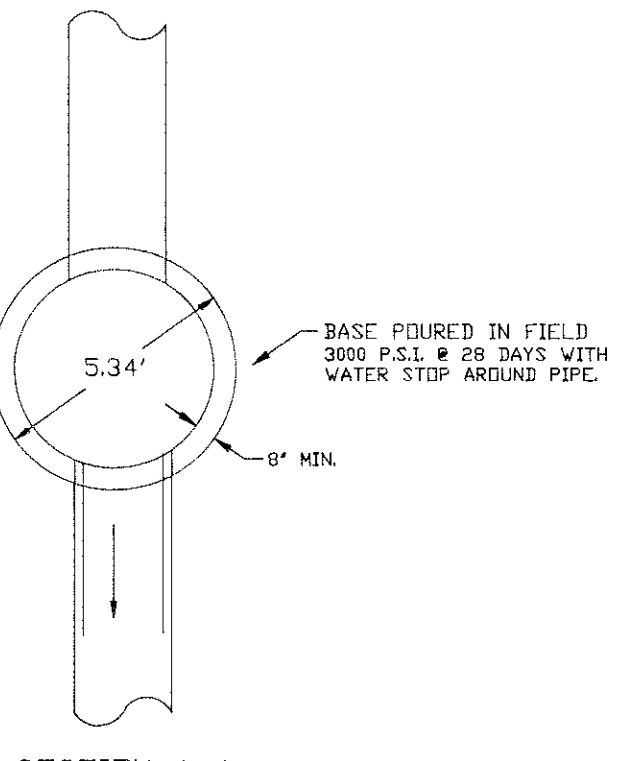
1. ALL MANHOLE FRAMES AND COVERS SHALL BE DEVEY BROTHERS, INC. MH-RCR-3000W IN NON-PAVED AREAS, MH-RCR-3000EVCW IN PAVED AREAS, MH-RCR-3000 IN AREAS NOT SUBJECT TO FLOODING OR APPROVED EQUAL.
2. THE FIRST STEP IN THE ECCENTRIC MANHOLE SHALL BE 1 FOOT FROM THE TOP OF THE CONE SECTION AND A MAXIMUM OF 4.5 INCHES WIDE 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 OPENING 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 VDOT APPROVED FOR TRAFFIC BEARING.



4' STANDARD MANHOLE FOR PIPE 15" OR SMALLER

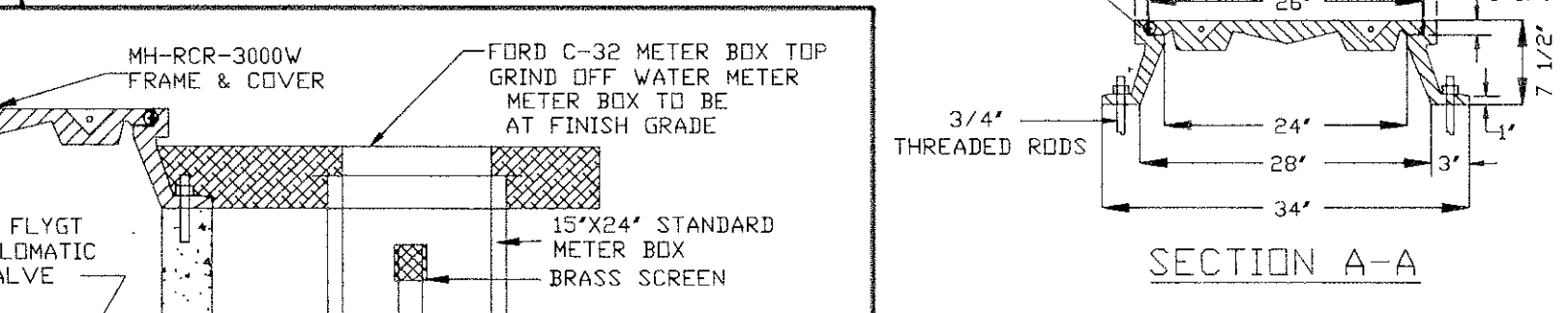
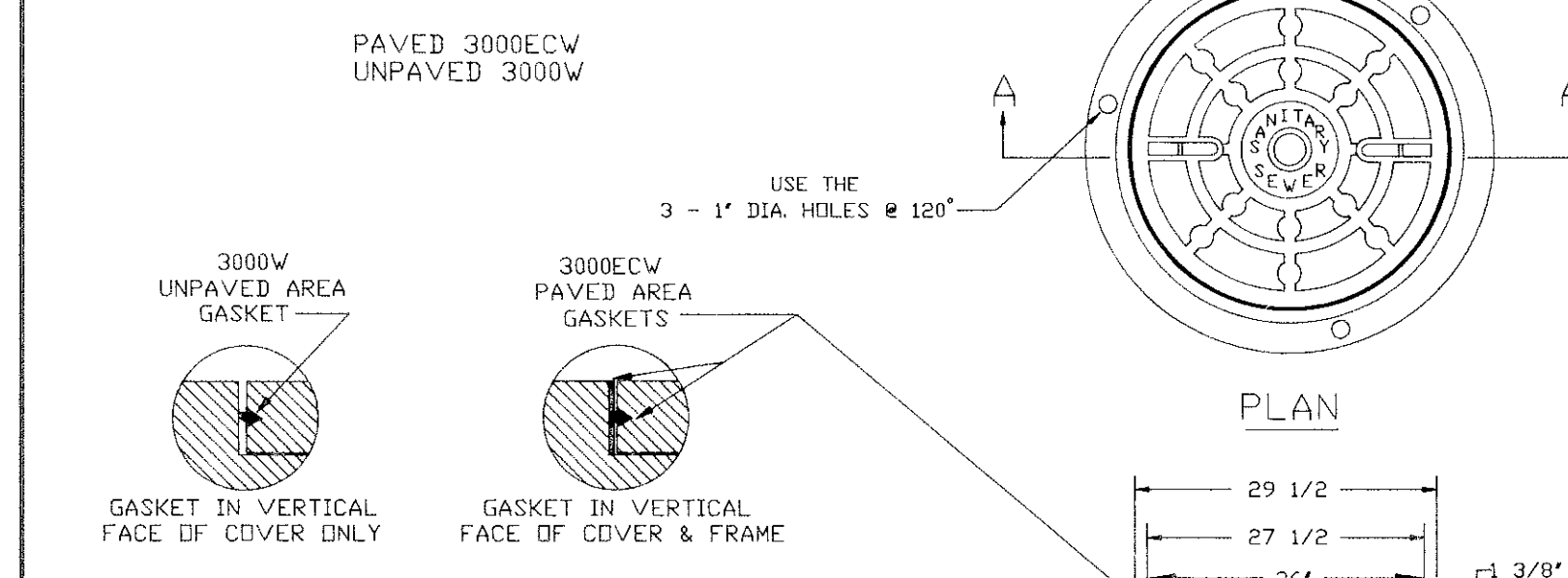
NOTES:

1. ALL MANHOLE FRAMES AND COVERS SHALL BE DEVEY BROTHERS, INC. MH-RCR-3000W IN NON-PAVED AREAS, MH-RCR-3000EVCW 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 WIDE 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 VDOT APPROVED FOR TRAFFIC BEARING.
6. ASPHALT COATING SHALL BE REQUIRED ON OUTSIDE OF ALL MANHOLES.



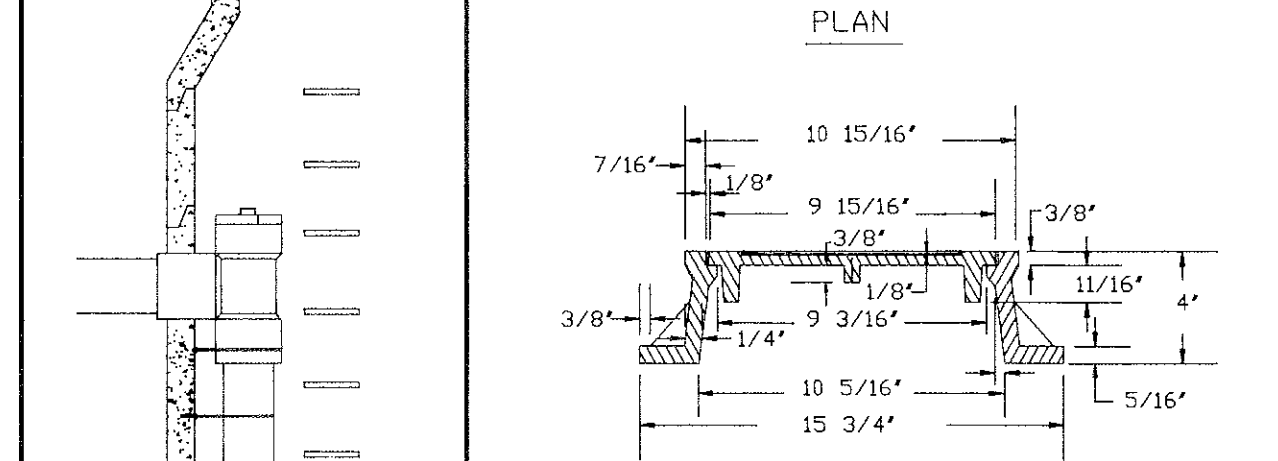
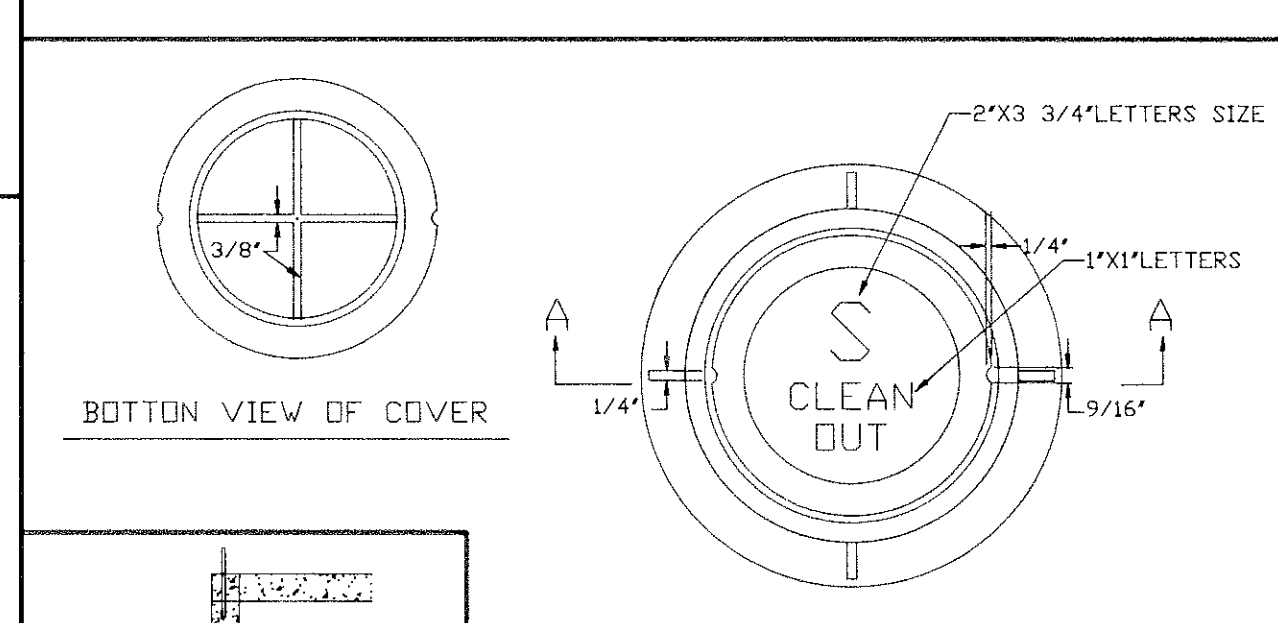
STRADDLE MANHOLE FOR PIPE 15" OR SMALLER

WATERTIGHT MANHOLE FRAME AND COVER

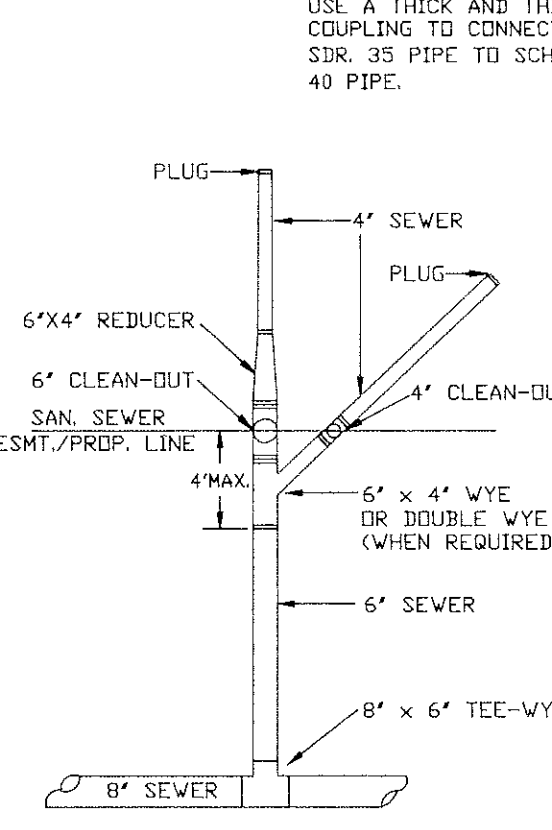


SAMPLING STRUCTURE DETAIL

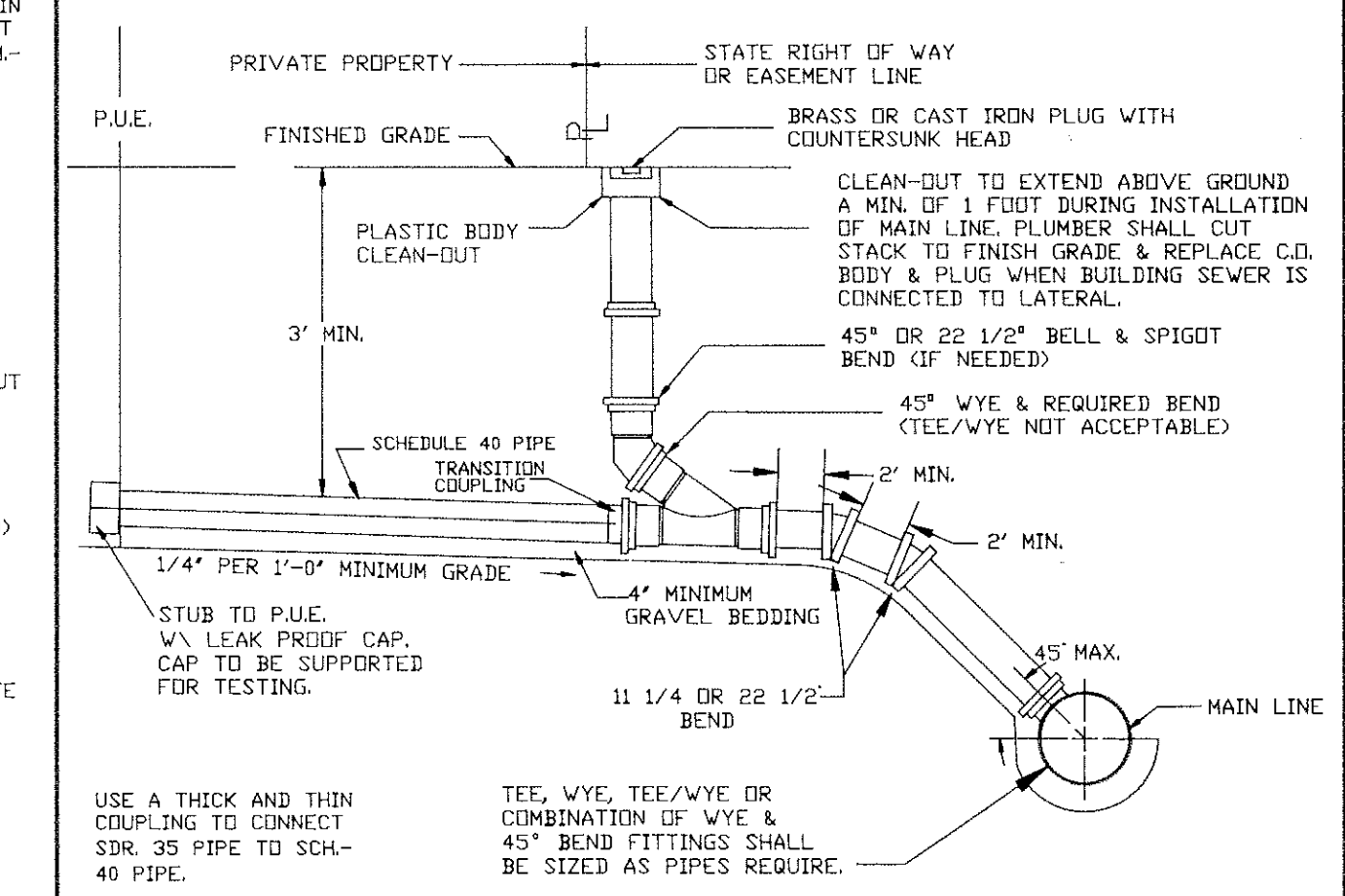
INSTALLATION DETAIL FOR ALL FRAMES AND COVERS



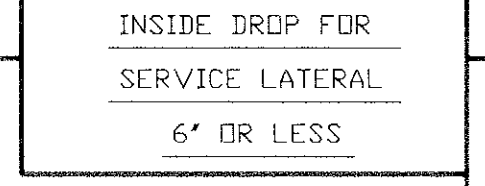
CLEANOUT ACCESS BOX



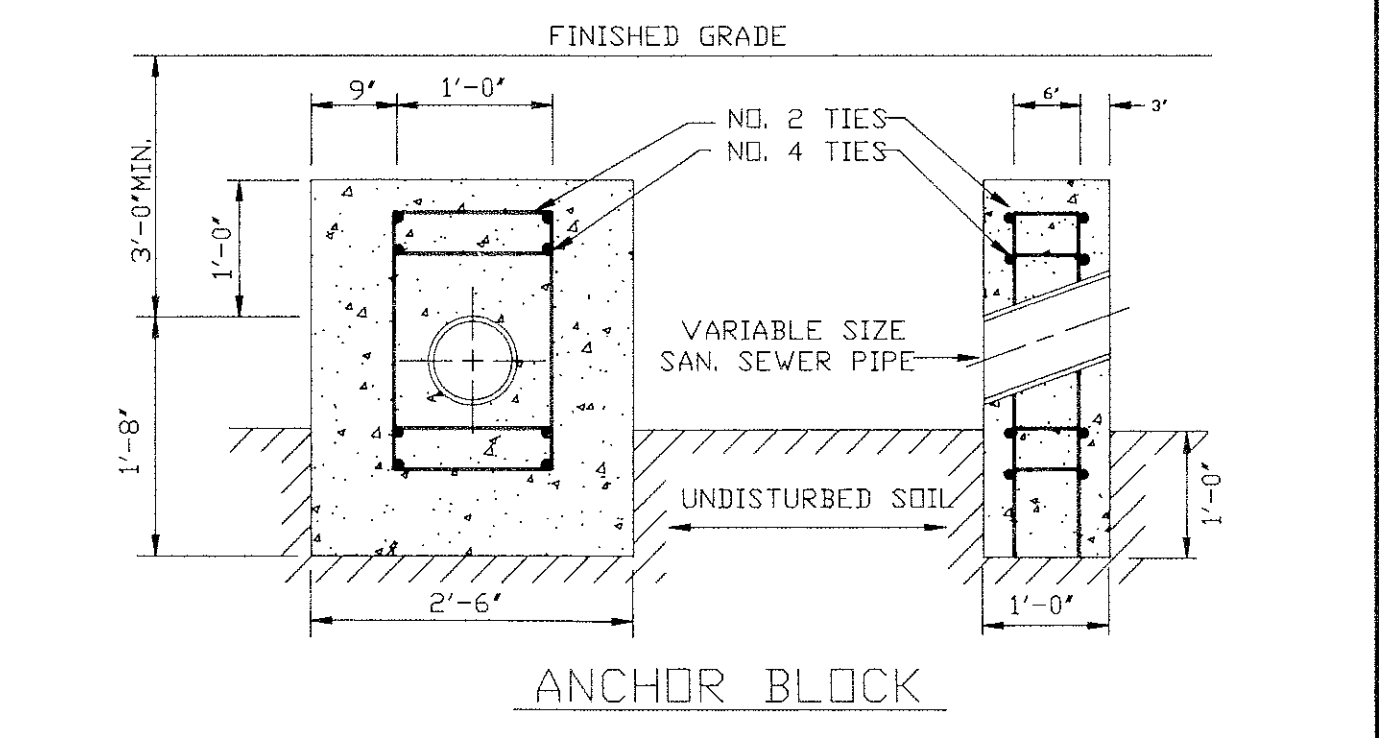
OPTIONAL LATERALS



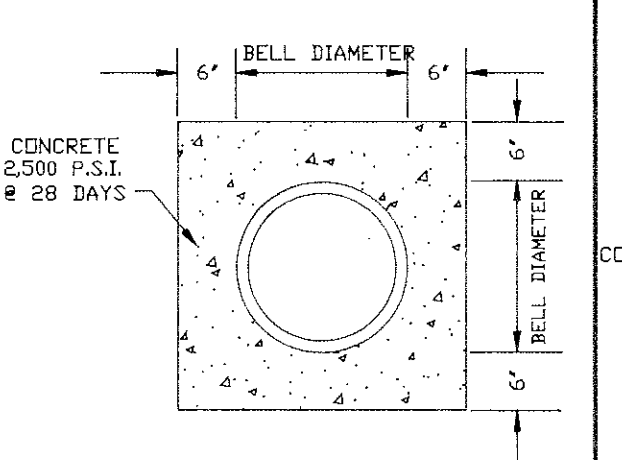
SANITARY SEWER LATERAL IN P.U.E.



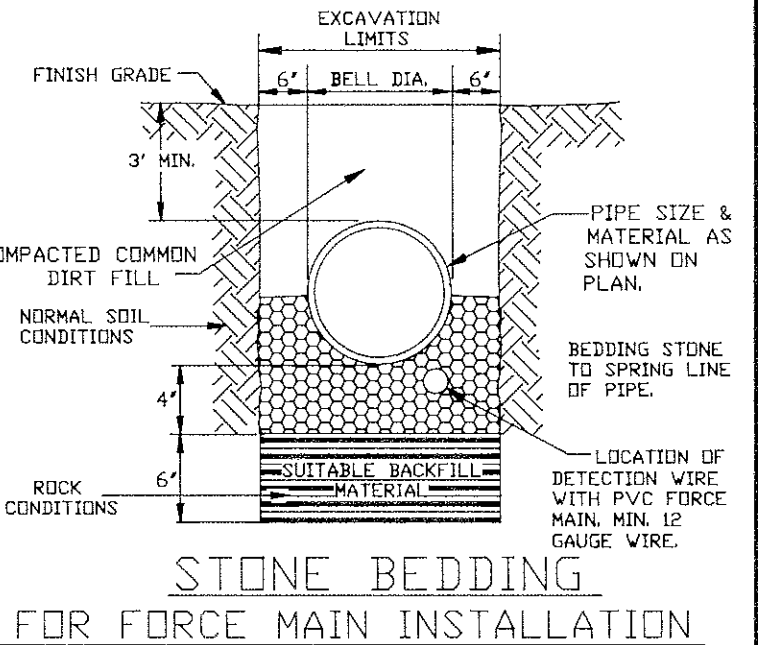
INSIDE DROP FOR SERVICE LATERAL 6" OR LESS



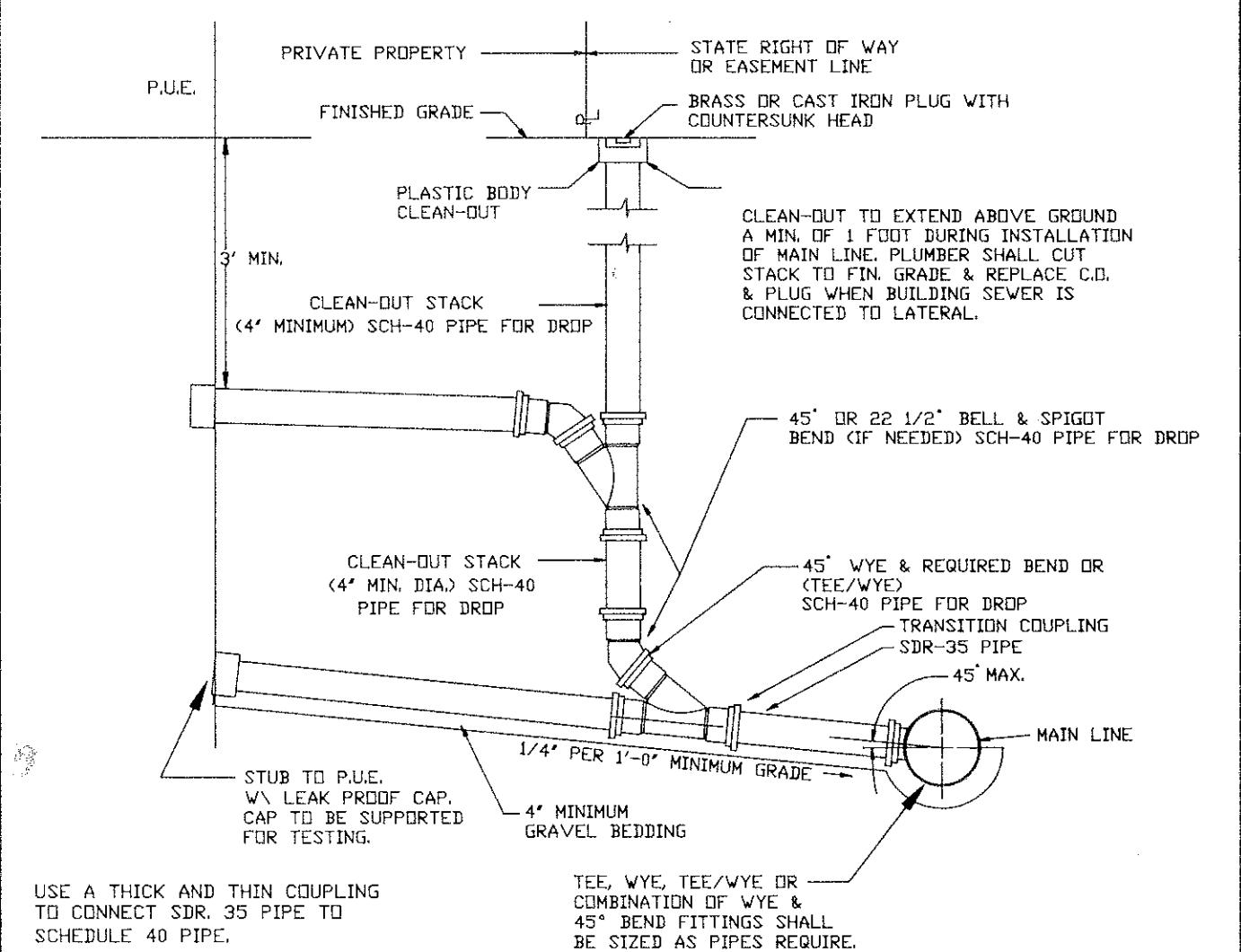
ANCHOR BLOCK



CONCRETE ENCASED PIPE



STONE BEDDING FOR FORCE MAIN INSTALLATION



OPTIONAL SANITARY SEWER LATERAL 8 FEET OR DEEPER

FOR ADDITIONAL REFERENCE, SEE DETAIL DRAWINGS IN SEWER STANDARDS.

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NO.	REVISIONS	DATE