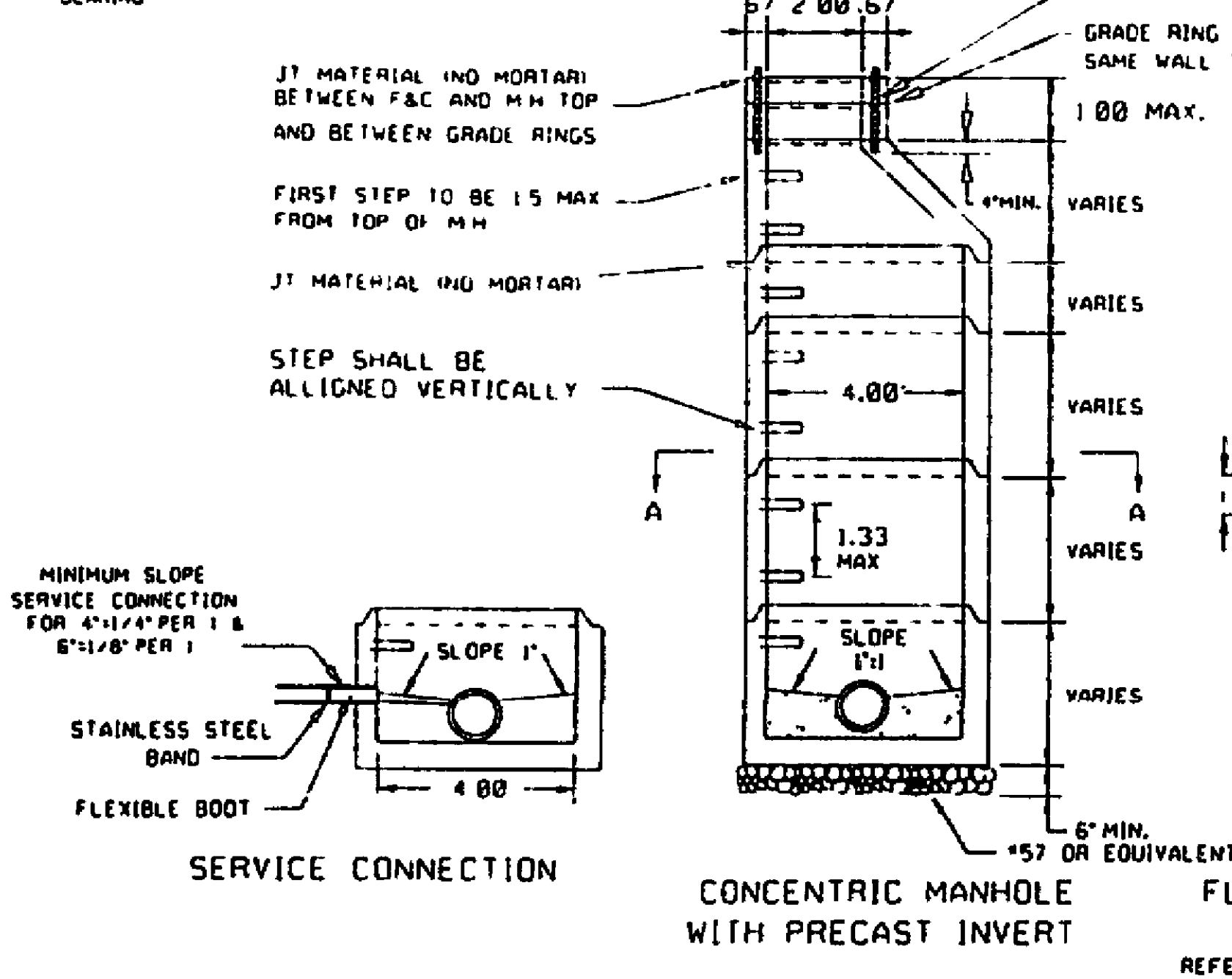
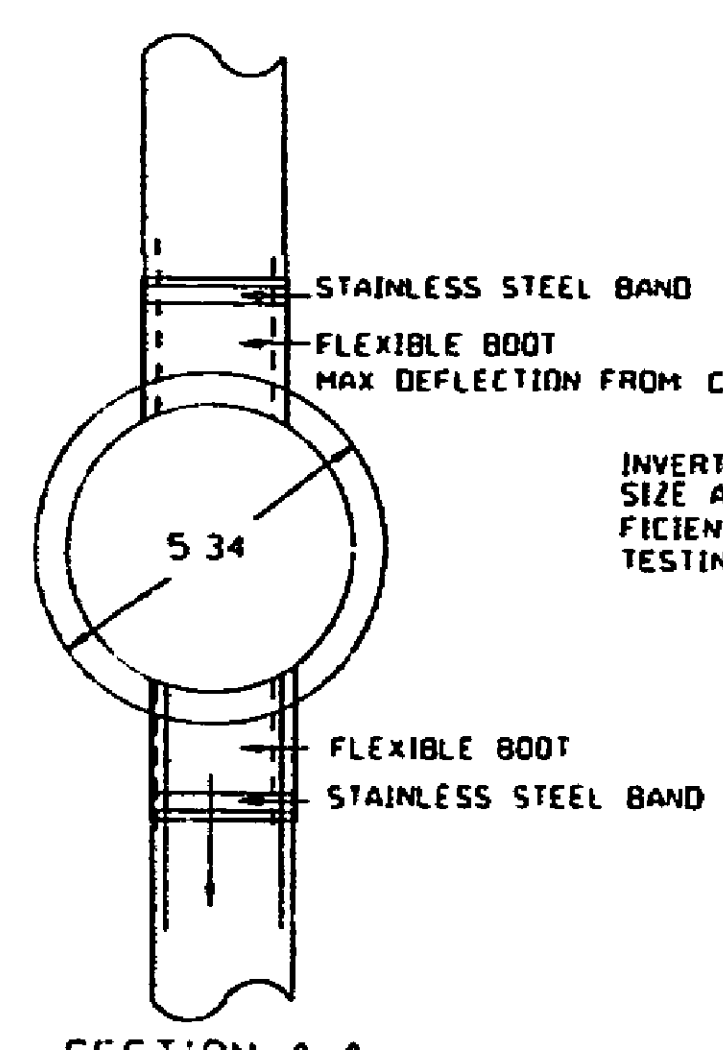


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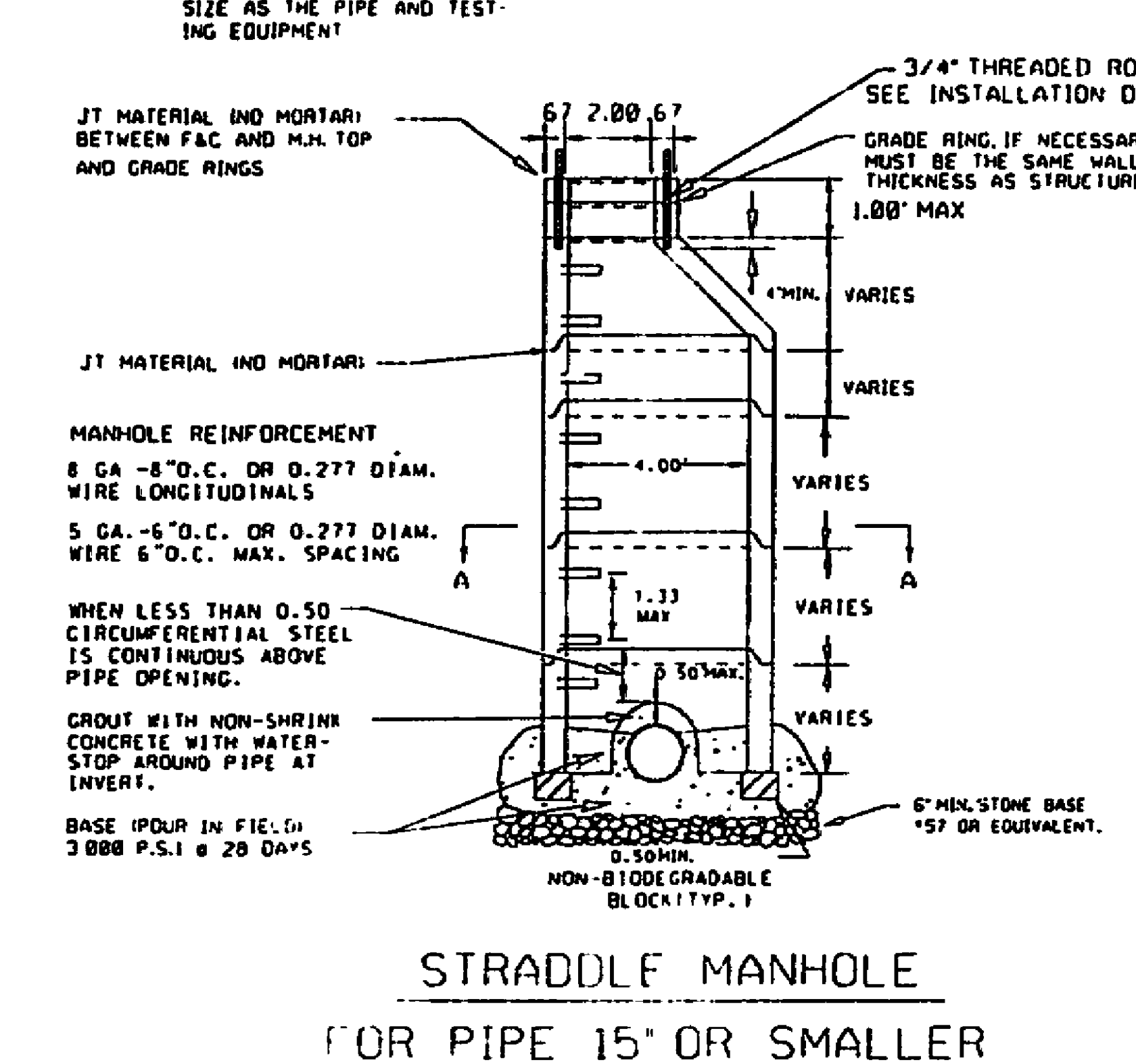
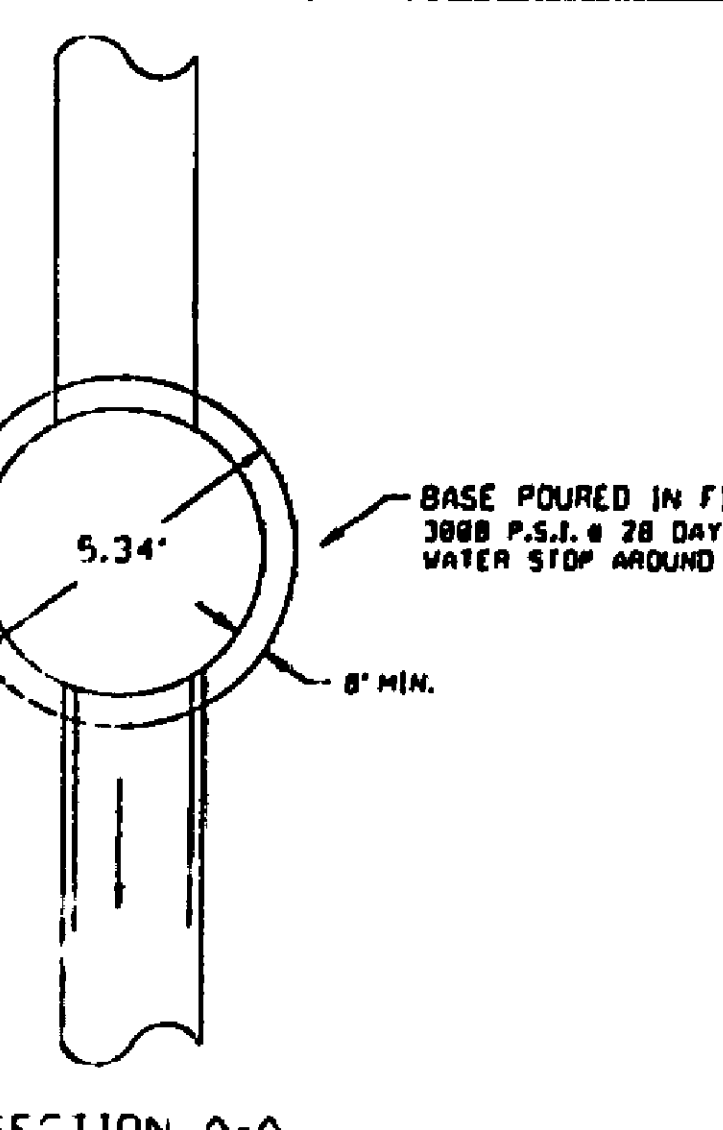
1. ALL MANHOLE FRAMES AND COVERS SHALL BE DEVEY BROTHERS, INC. HH-HCR-300BW IN NON-PAVED AREAS, HH-HCR-300BW IN PAVED AREAS, HH-HCR-300BW IN AREAS NOT SUBJECT TO FLOODING OR APPROVED EQUAL.
2. THE FIRST STEP IN THE ECCENTRIC MANHOLE SHALL BE 1'00" FROM THE TOP OF THE CONE SECTION AND A MAXIMUM OF 4.5 INCHES WIDE FROM THE INSIDE FACE OF THE CONE SECTION.
3. THE FRAME AND COVER SHALL BE PROPERLY ALIGNED WITH THE 2'00" 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:

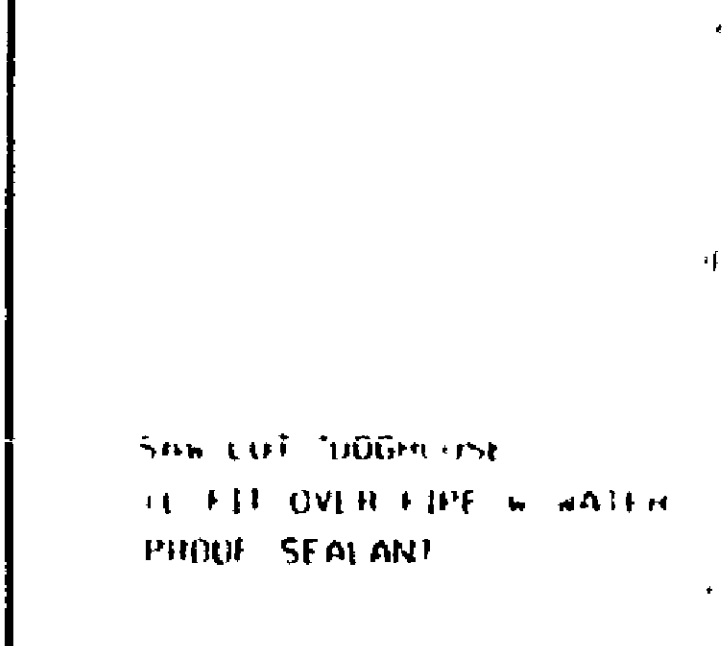
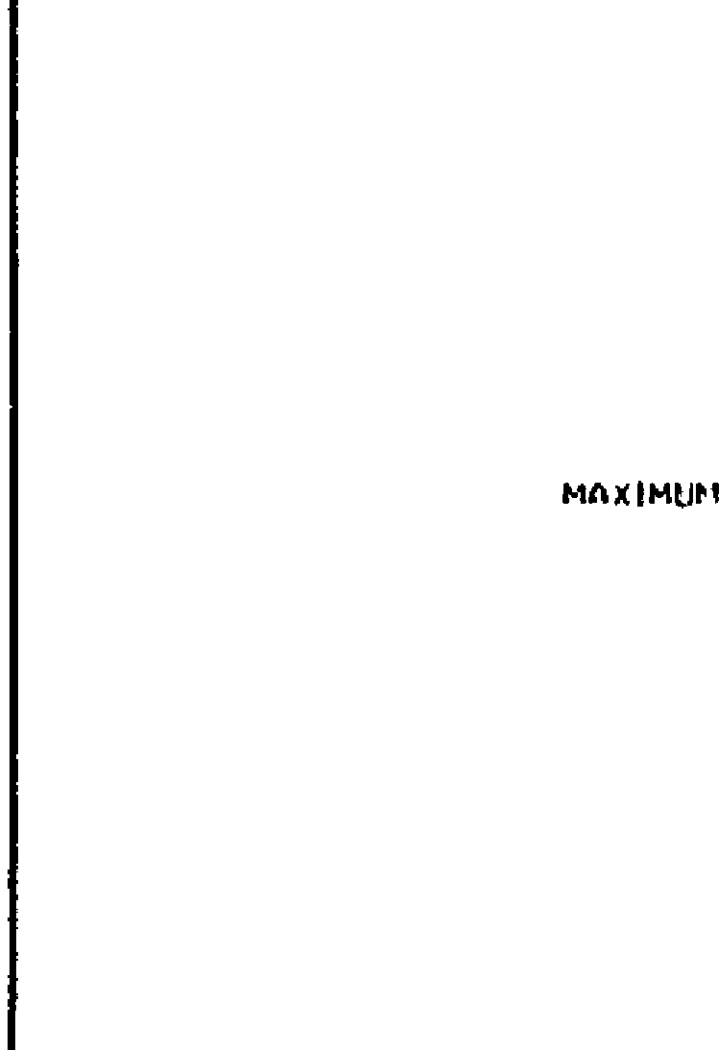
1. ALL MANHOLE FRAMES AND COVERS SHALL BE DEVEY BROTHERS, INC. HH-HCR-300BW IN NON-PAVED AREAS, HH-HCR-300BW IN PAVED AREAS, HH-HCR-300BW IN AREAS NOT SUBJECT TO FLOODING OR APPROVED EQUAL.
2. THE FIRST STEP IN THE ECCENTRIC MANHOLE SHALL BE 1'00" FROM THE TOP OF THE CONE SECTION AND A MAXIMUM OF 4.5 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 2'00" 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.



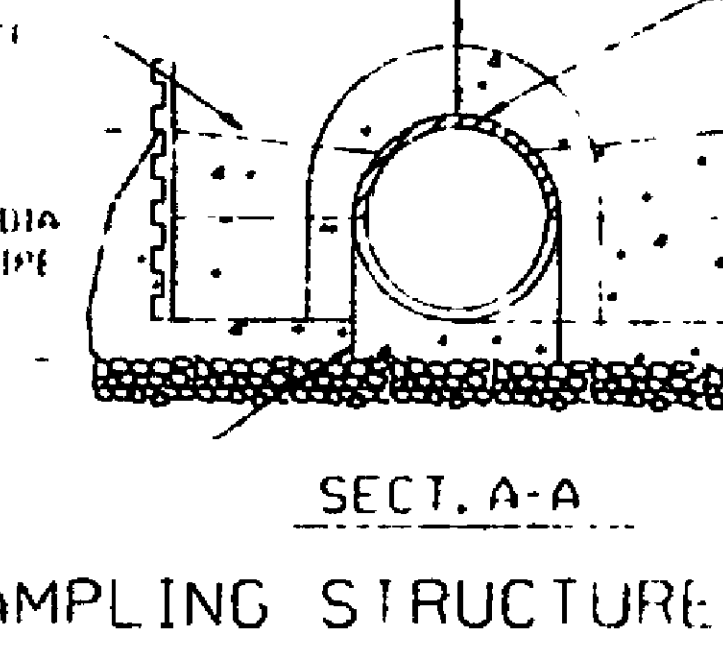
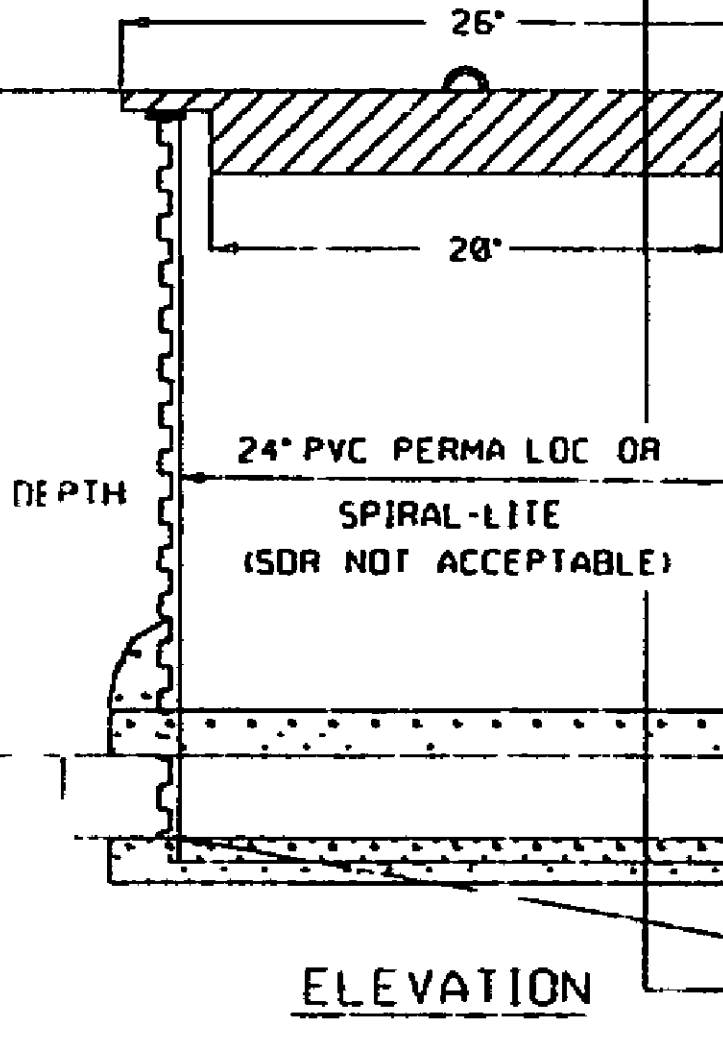
STRADDLE MANHOLE FOR PIPE 15" OR SMALLER

NOTES:

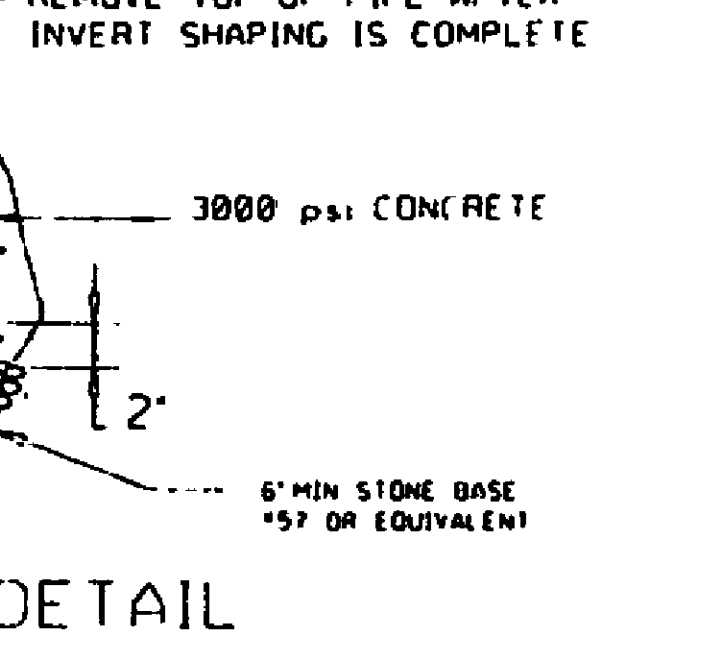
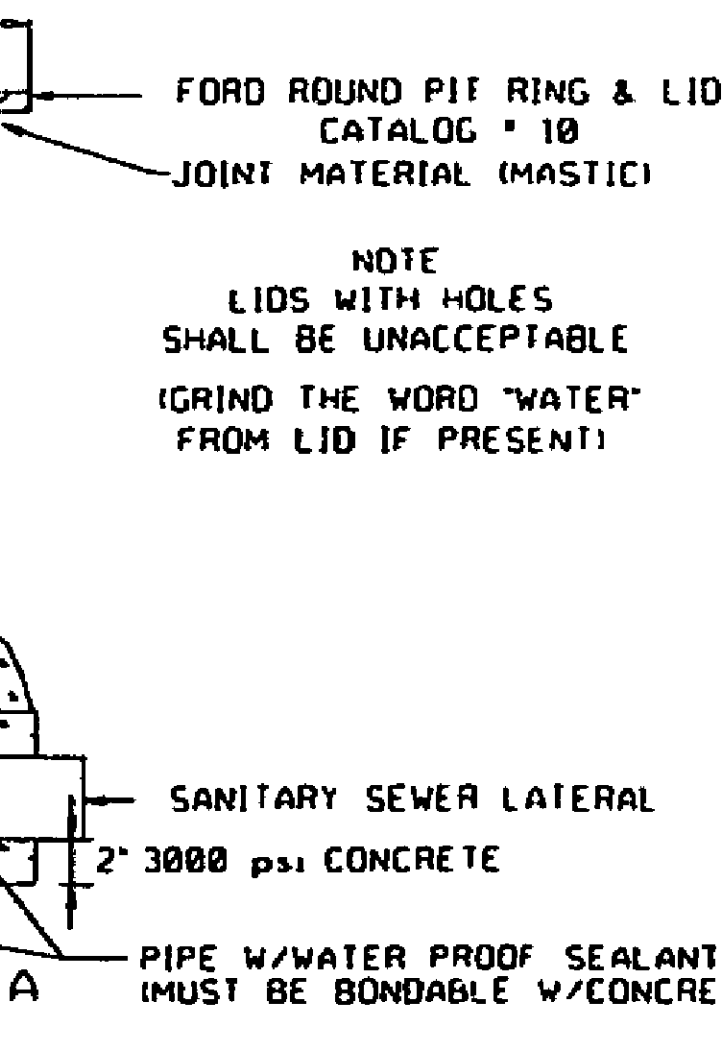
1. ALL MANHOLE FRAMES AND COVERS SHALL BE DEVEY BROTHERS, INC. HH-HCR-300BW IN NON-PAVED AREAS, HH-HCR-300BW IN PAVED AREAS, HH-HCR-300BW IN AREAS NOT SUBJECT TO FLOODING OR APPROVED EQUAL.
2. THE FIRST STEP IN THE ECCENTRIC MANHOLE SHALL BE 1'00" FROM THE TOP OF THE CONE SECTION AND A MAXIMUM OF 4.5 INCHES WIDE FROM THE INSIDE FACE OF THE CONE SECTION.
3. THE FRAME AND COVER SHALL BE PROPERLY ALIGNED WITH THE 2'00" 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.



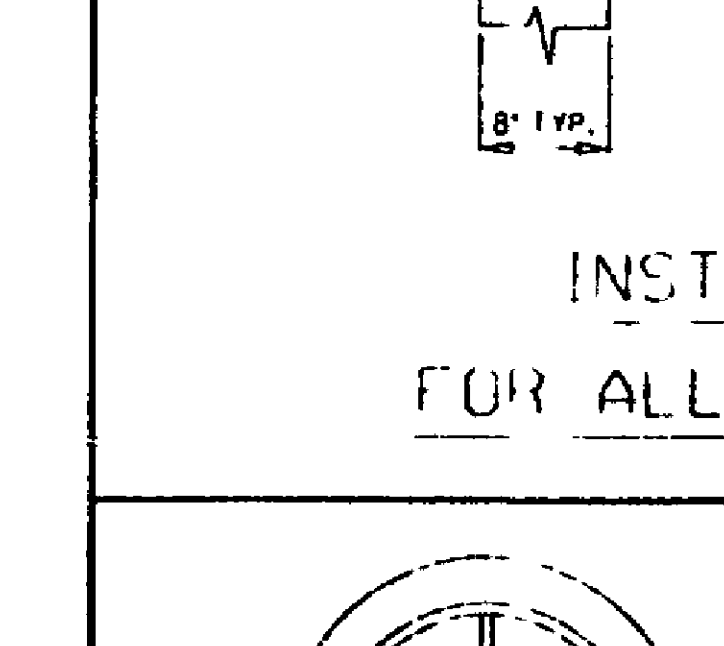
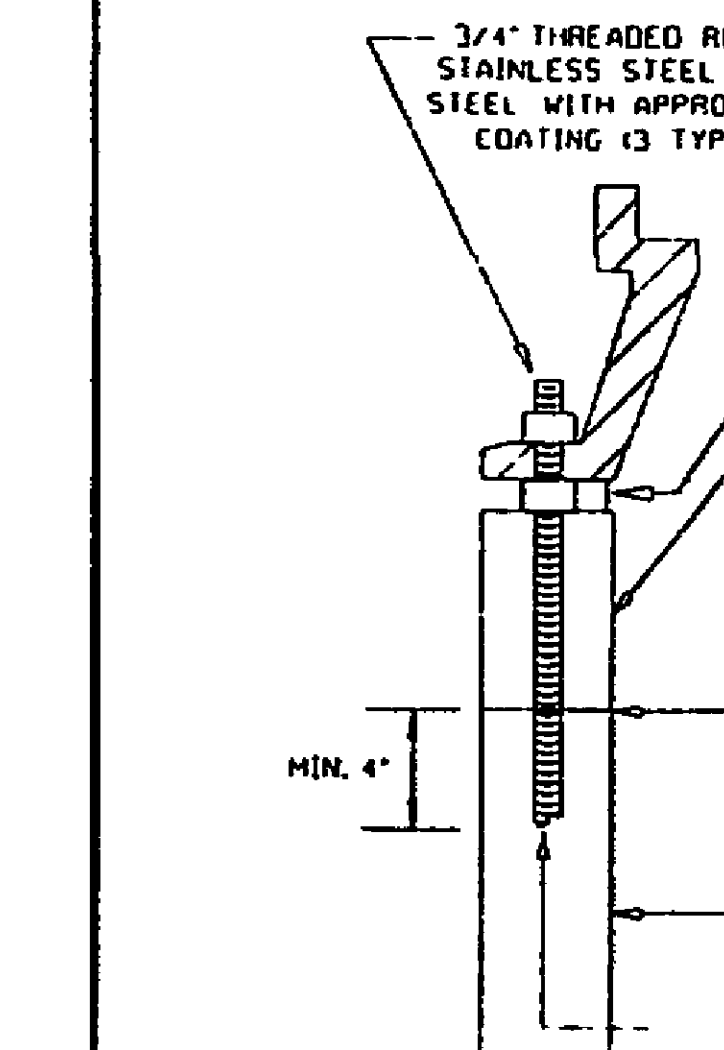
SAMPLING STRUCTURE DETAIL



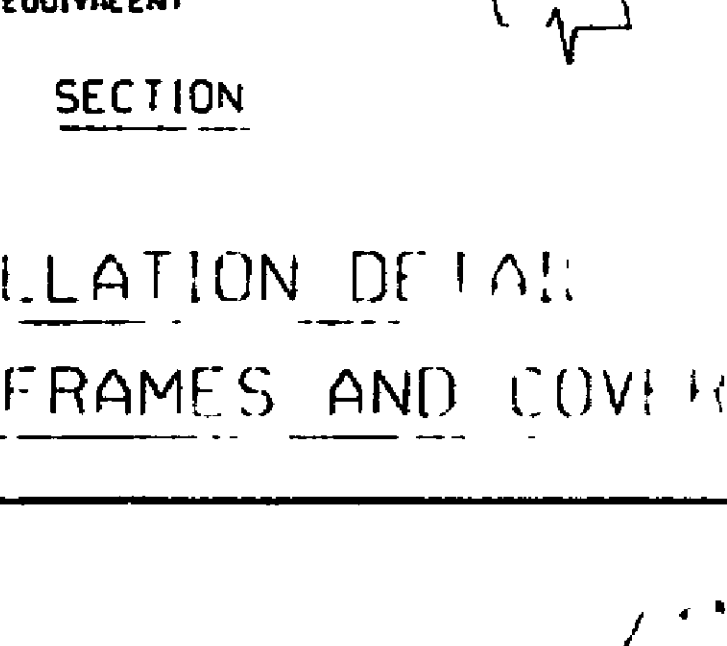
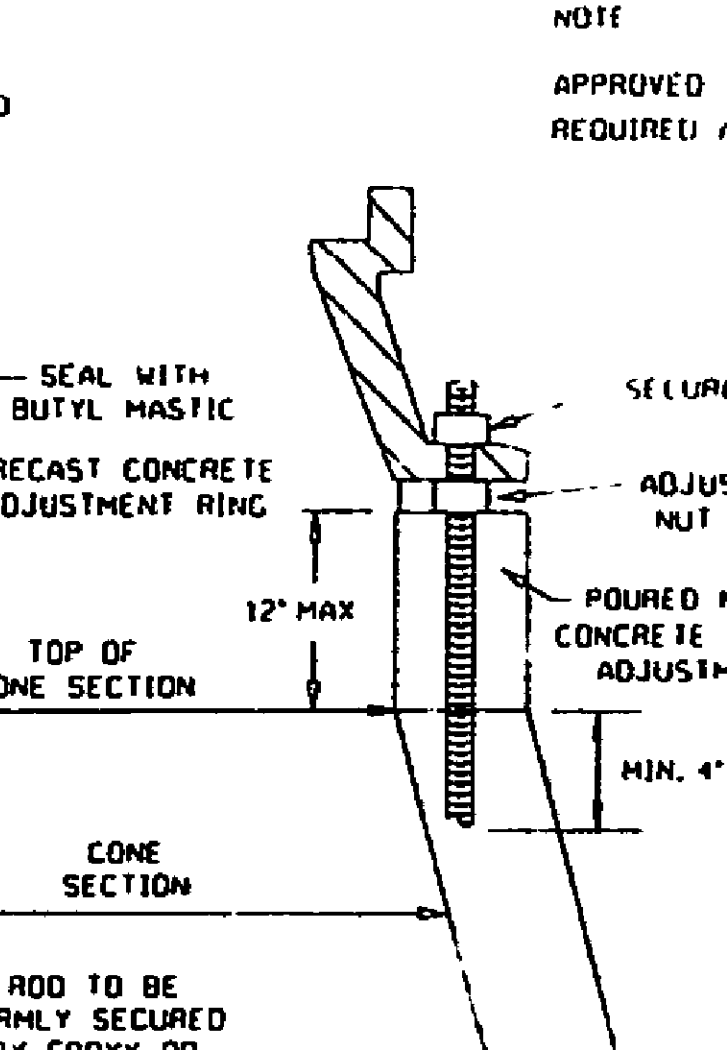
WATERTIGHT MANHOLE FRAME AND COVER



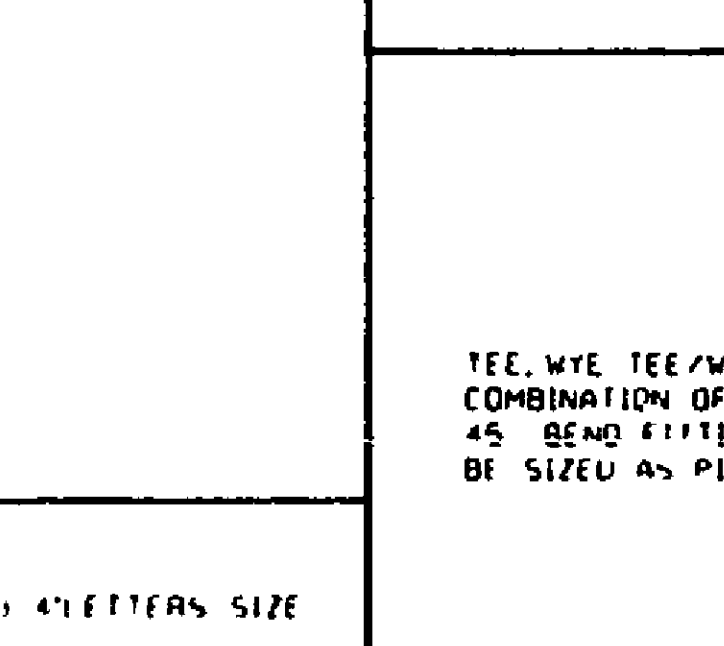
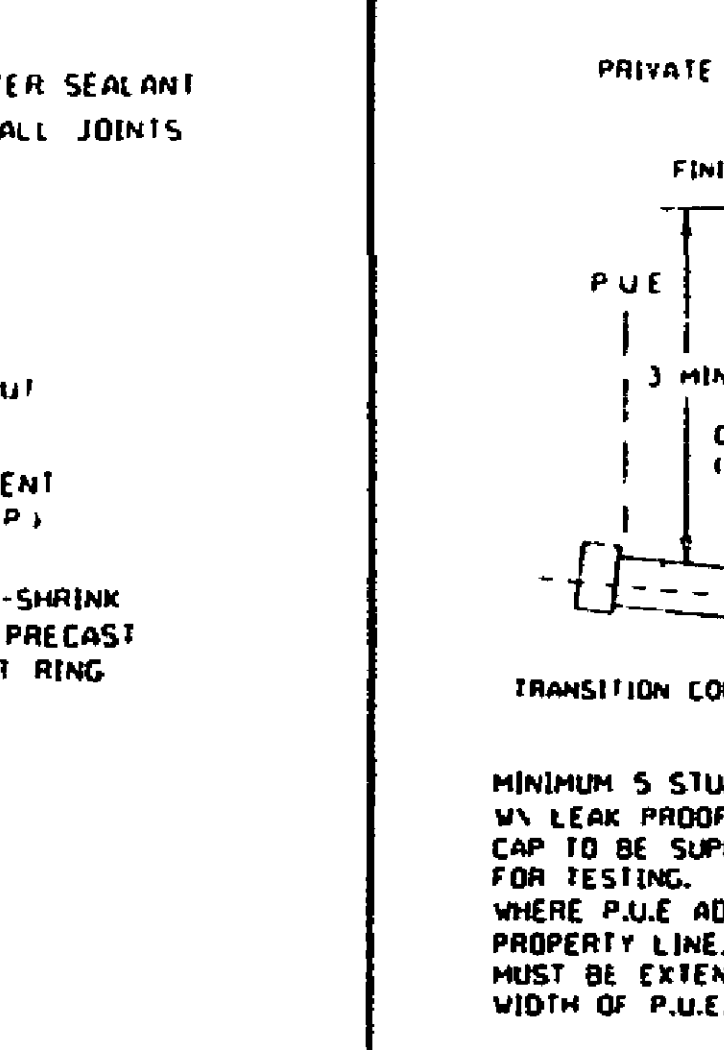
WATERTIGHT MANHOLE FRAME AND COVER



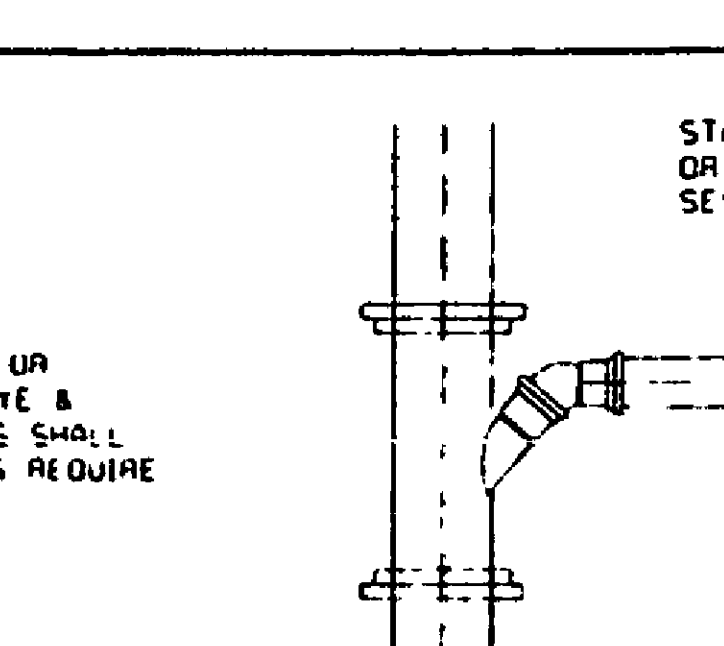
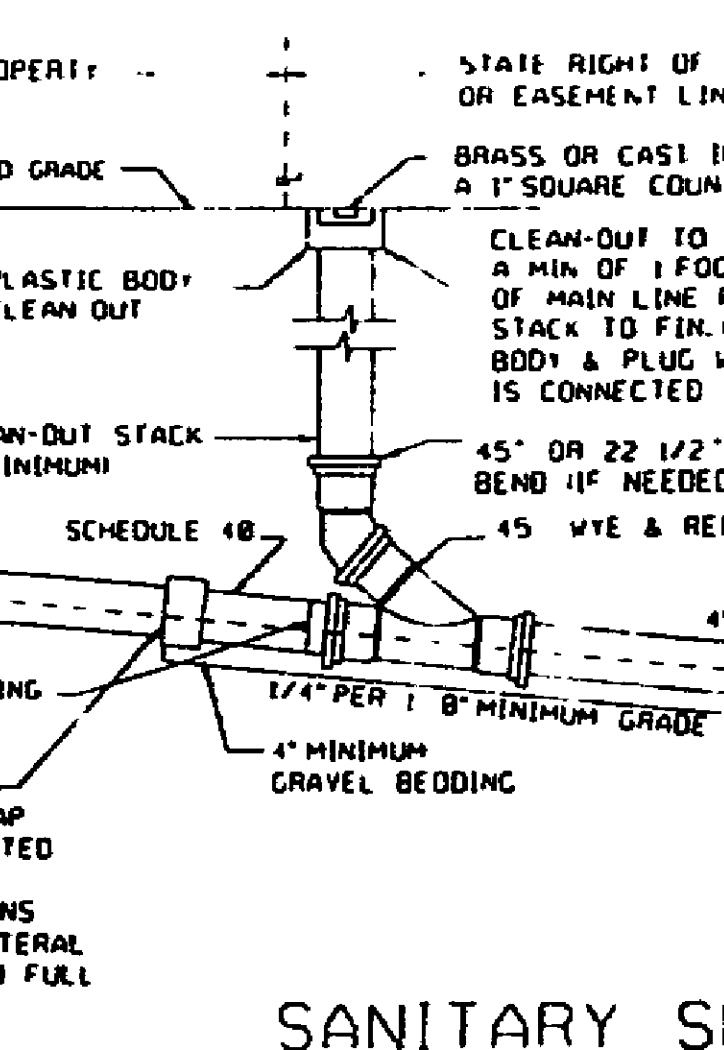
WATERTIGHT MANHOLE FRAME AND COVER



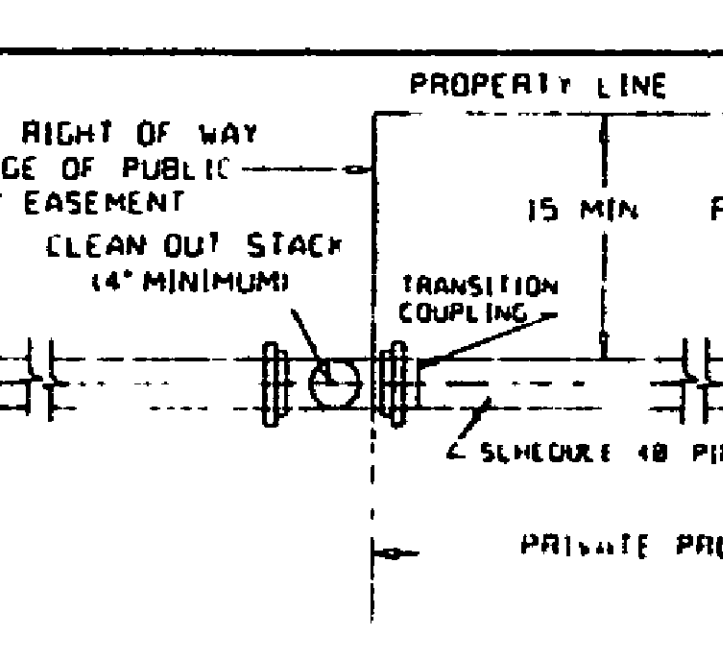
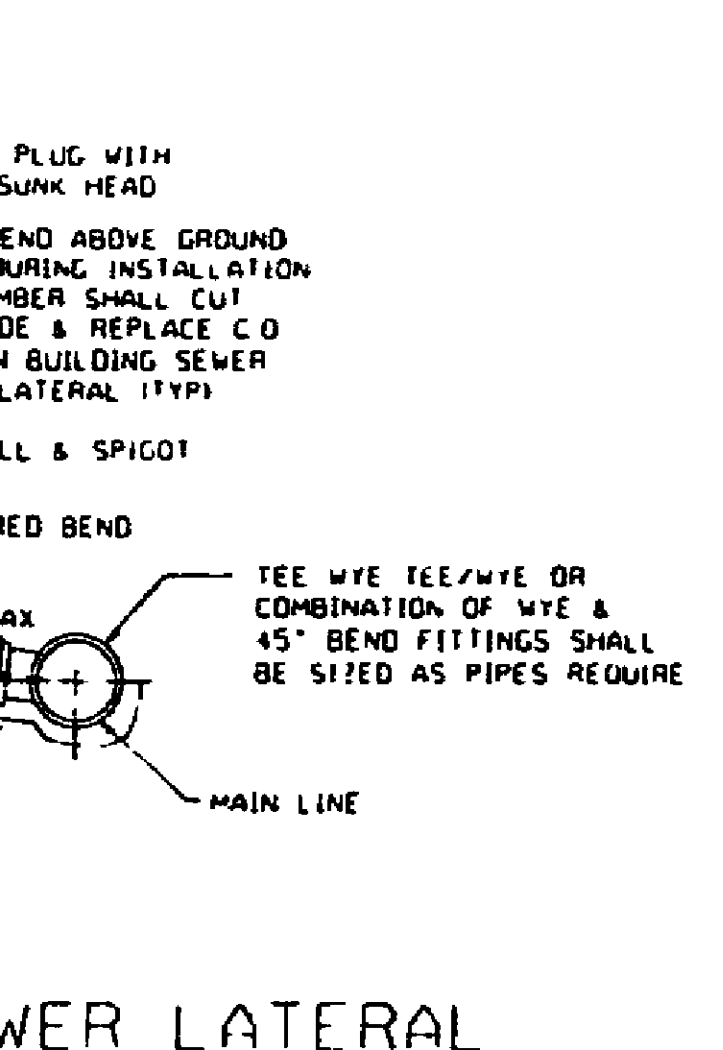
WATERTIGHT MANHOLE FRAME AND COVER



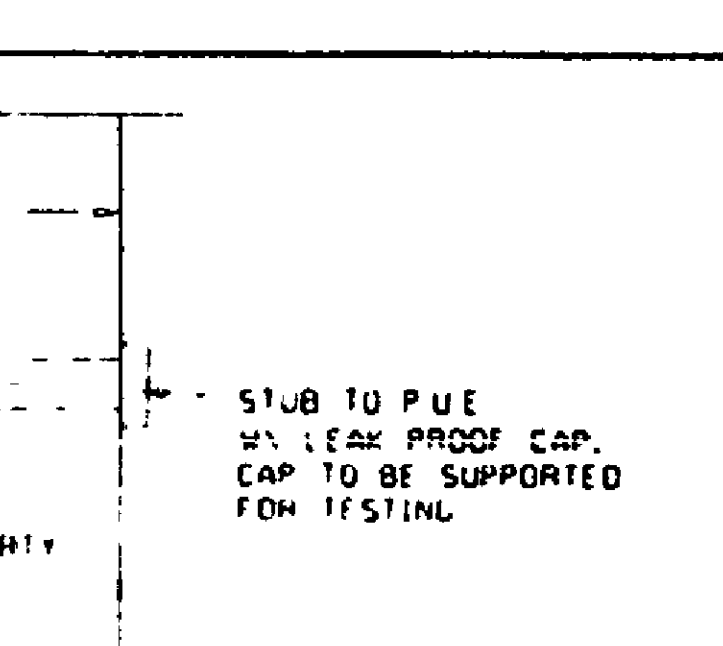
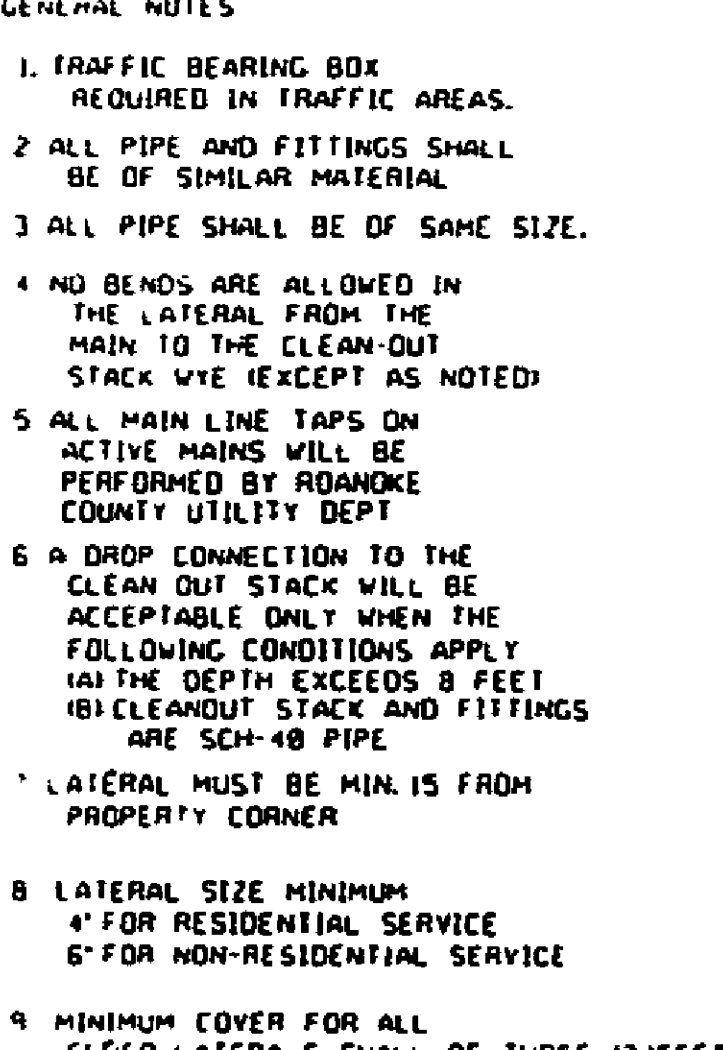
WATERTIGHT MANHOLE FRAME AND COVER



WATERTIGHT MANHOLE FRAME AND COVER



WATERTIGHT MANHOLE FRAME AND COVER



WATERTIGHT MANHOLE FRAME AND COVER

DEPARTMENT OF ENGINEERING AND INSPECTIONS

NO.	REVISIONS	DATE
1		
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COUNTY OF ROANOKE

DATE: 10/19/93
SCALE: NO SCALE
DRAWING BY: CN, TB, AF (GIVEN DETAILS, SEWERS, SEWER)
DESIGNED BY: ROANOKE COUNTY ENGINEERING DEPT.
APPROVED BY:

SHEET 3 OF 4
SEWER DETAIL

JOB NUMBER 94128
SC-0328