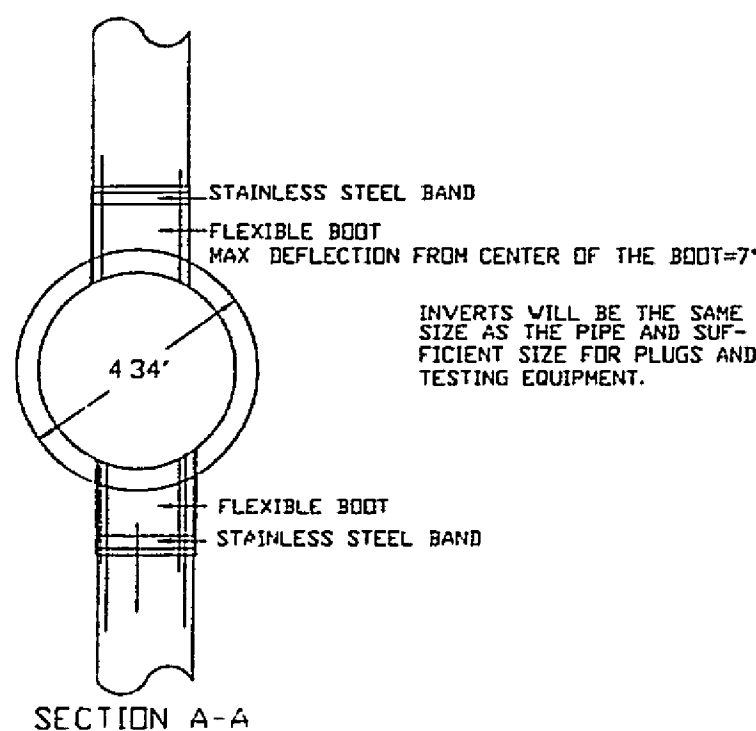


NOTES:

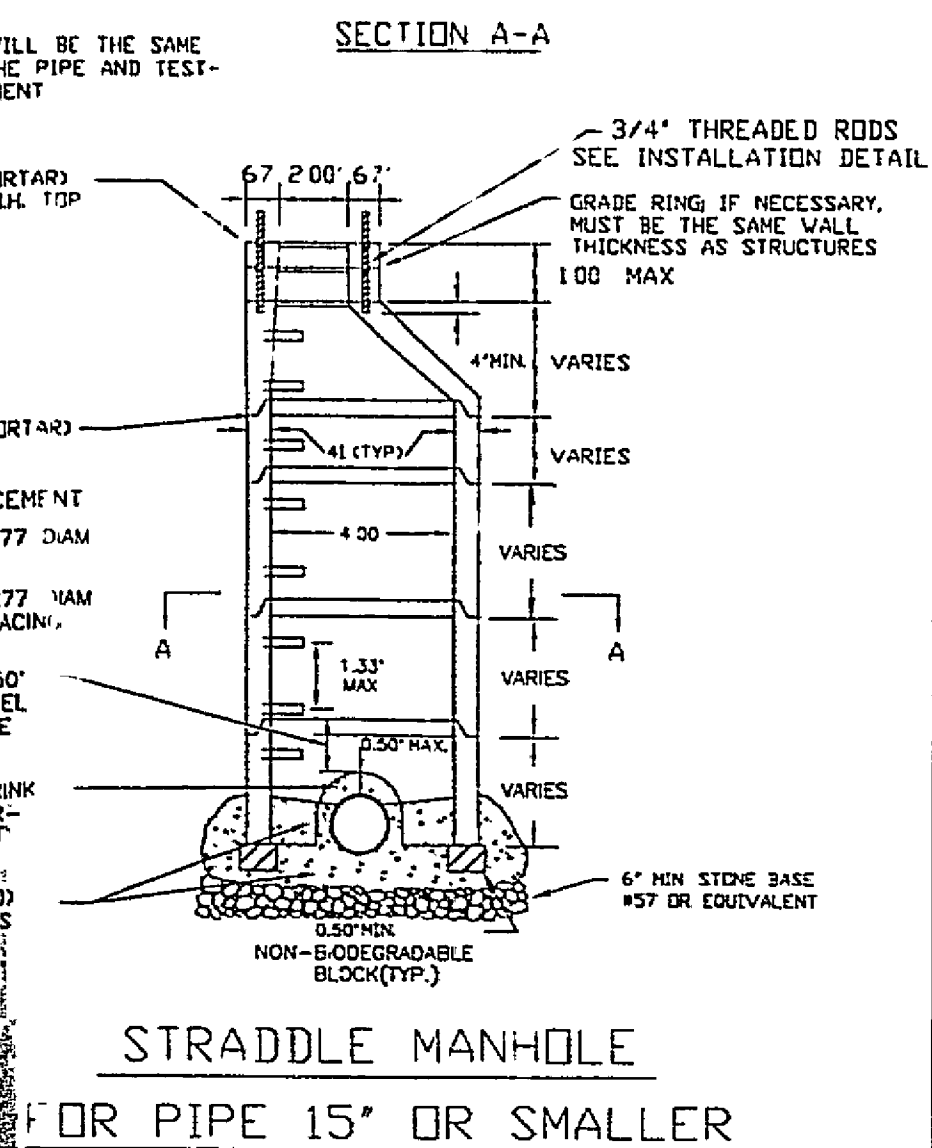
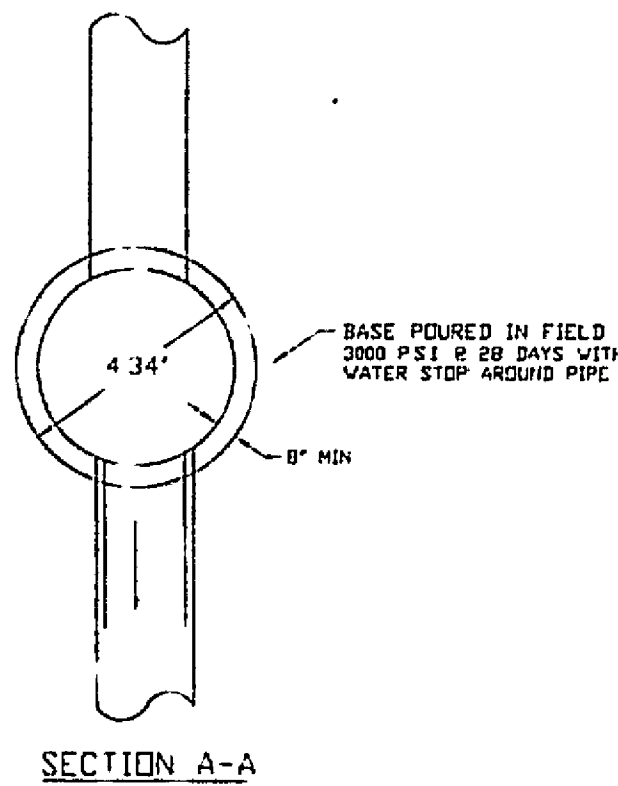
1. ALL MANHOLE FRAMES AND COVERS SHALL BE DEWEY BROTHERS, INC. MH-RCR-3000V IN NON-PAVED AREAS, MH-RCR-3000ECV IN PAVED AREAS, MH-RCR-3000 IN AREAS NOT SUBJECT TO FLOODING OR APPROVED EQUAL.
2. THE FIRST STEP IN THE ECCENTRIC MANHOLE SHALL BE 1' FOOT FROM THE TOP OF THE CONE SECTION AND A MAXIMUM OF 4.5 INCHES 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. THE FRAME MUST BE IN PLACE PRIOR TO VACUUM TESTING.
6. FLAT TOP SHALL BE VOID APPROVED FOR TRAFFIC BEARING.



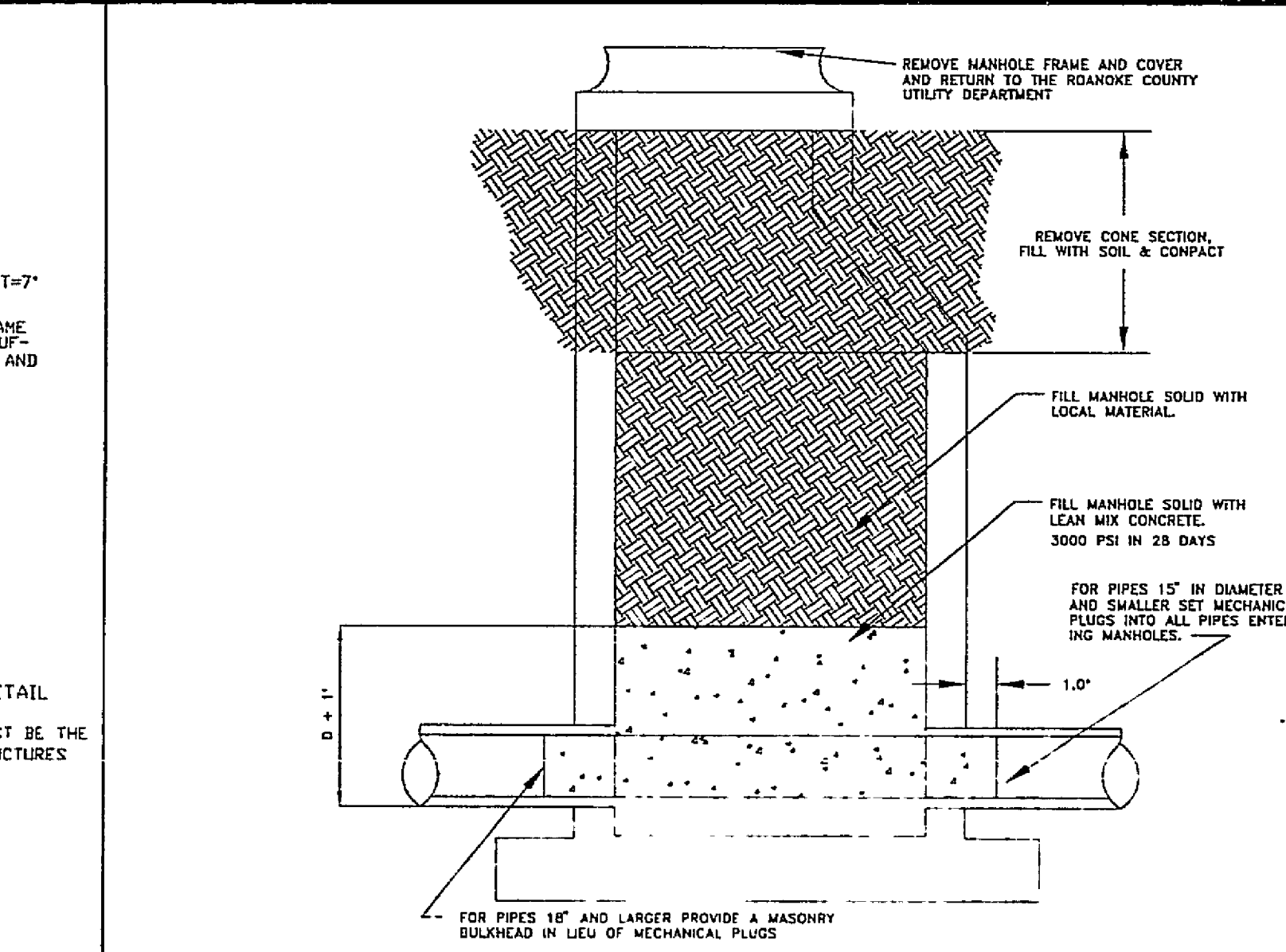
4' STANDARD MANHOLE FOR PIPE 15" OR SMALLER

NOTES:

1. ALL MANHOLE FRAMES AND COVERS SHALL BE DEWEY 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 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 VOID APPROVED FOR TRAFFIC BEARING.



STRADDLE MANHOLE FOR PIPE 15" OR SMALLER



SANITARY SEWER MANHOLE ABANDONMENT

WATERTIGHT MANHOLE FRAME AND COVER

PAVED 3000ECV UNPAVED 3000V

UNPAVED AREA GASKET 3000V PAVED AREA GASKETS

GASKET IN VERTICAL FACE OF COVER ONLY GASKET IN VERTICAL FACE OF COVER & FRAME

USE THE 3" DIA HOLES @ 120"

29 1/2" 27 1/2" 26" 24" 22" 20" 18" 16" 14" 12" 10" 8" 6" 4" 2" 0"

2" MODEL 2002 FLYGT OR MODEL 50 FLOMATIC BALL CHECK VALVE

15" X 24" STANDARD METER BOX 2" BRASS PIPE 6" COMPACTED GRAVEL BEDDING

COND. MANHOLE

BRICK & MORTAR AS REQUIRED (BOTH ENDS) CASING AS PER PLANS

1" PVC DRAIN (COVER END ONLY) 2" X 1/4" GALV. STEEL STRAP OR 1" S.S. BAND

18" LONG TREATED TIMBER PLACED 4"-8" O.C. SKIDS OF APPROPRIATE WIDTH, SO THAT BELL OR FLANGE DOES NOT REST ON CASTING WITH LESS THAN 3/4" FREE PLAY.

ENCASEMENT PIPE CARRIER PIPE GALV. STEEL STRAPS OR S.S. STRAPS TREATED TIMBER SKID (SIZE VARIES) MAX 3/4" CLEARANCE (TOTAL)

FOR DUCTILE IRON PIPE, SDAP-BASED LUBRICANT MAY BE USED TO EASE SLIDING OF SKID. FOR PVC PIPE, FLAX SDAP OR DRILLING MUD SHOULD BE UTILIZED FOR LUBRICATION.

PIPE SUPPORT IN CASING PIPE

TYPE 2 MANHOLE VENT

SECTION A-A

NOTE: DEWEY BROTHERS, INC. MH-RCR-3000ECV WATER TIGHT FRAME & COVER (PAVED)

NOTE: REFERENCE DETAIL DRAWINGS FOR DROP CONNECTION USING DUCTILE IRON PIPE.

SECTION A-A

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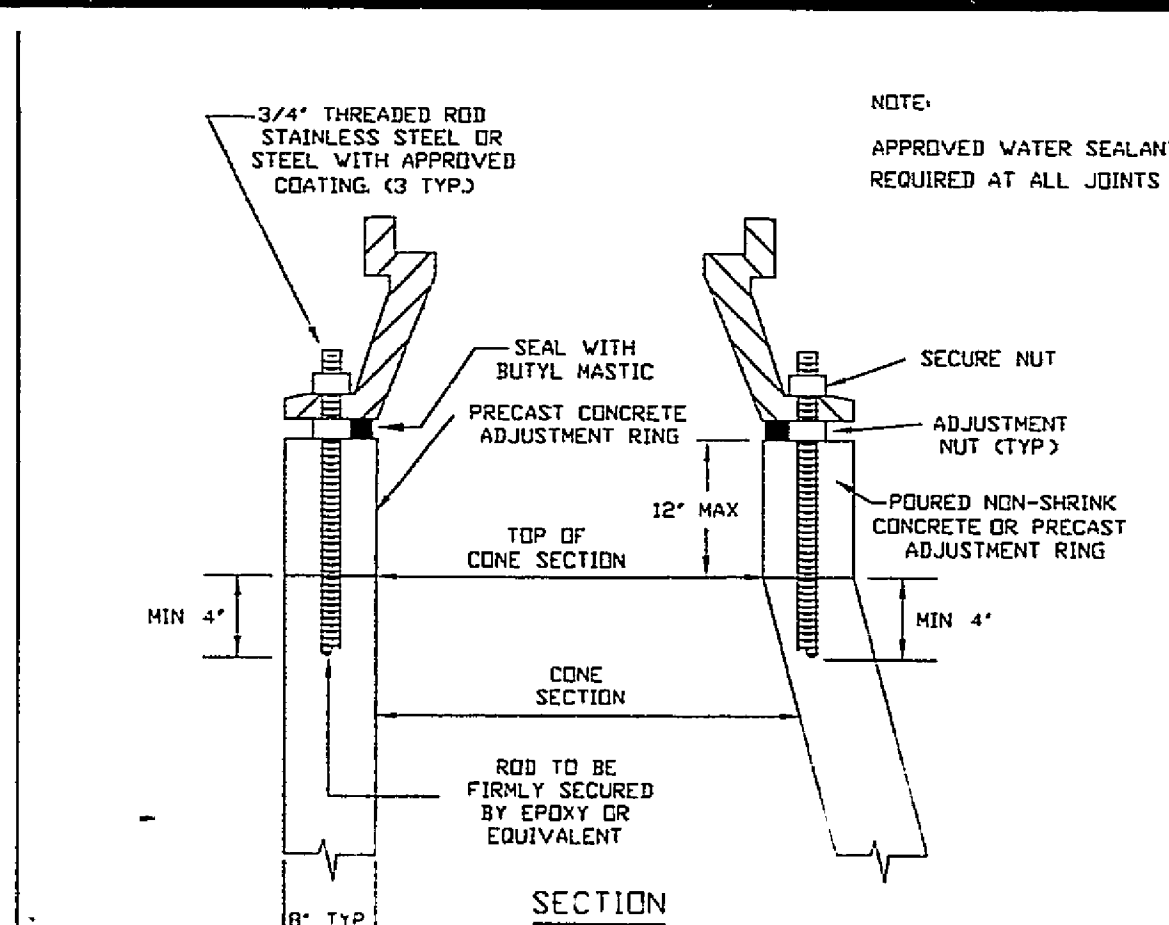
SECTION A-A

NOTE: REFERENCE DETAIL DRAWINGS FOR DROP CONNECTION USING DUCTILE IRON PIPE.

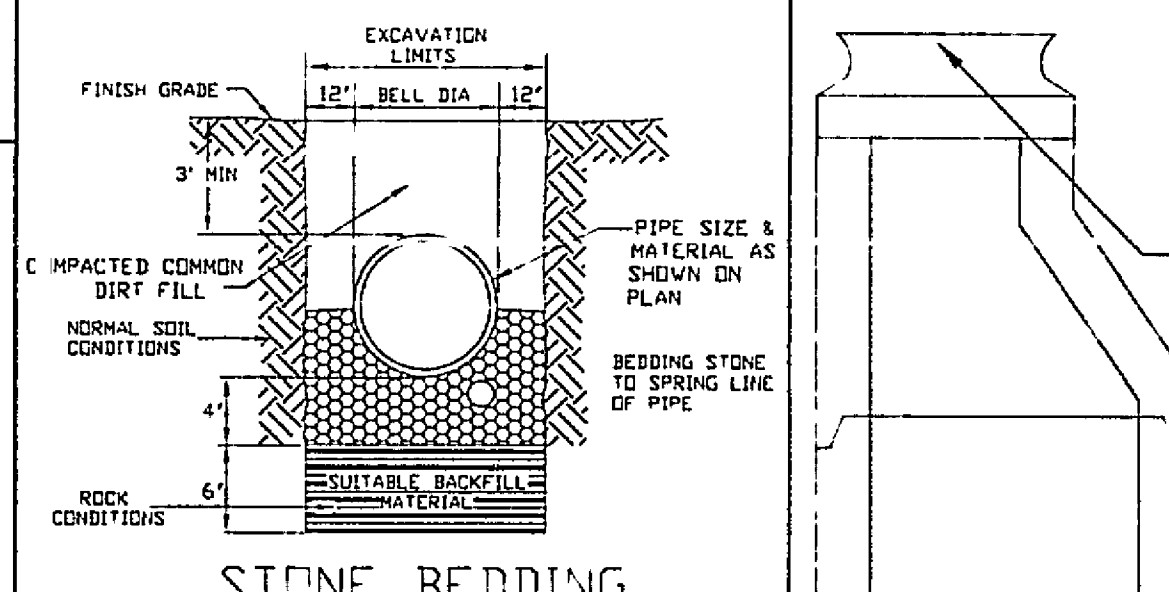
SECTION A-A

NOTE: REFERENCE DETAIL DRAWINGS FOR DROP CONNECTION USING DUCTILE IRON PIPE.

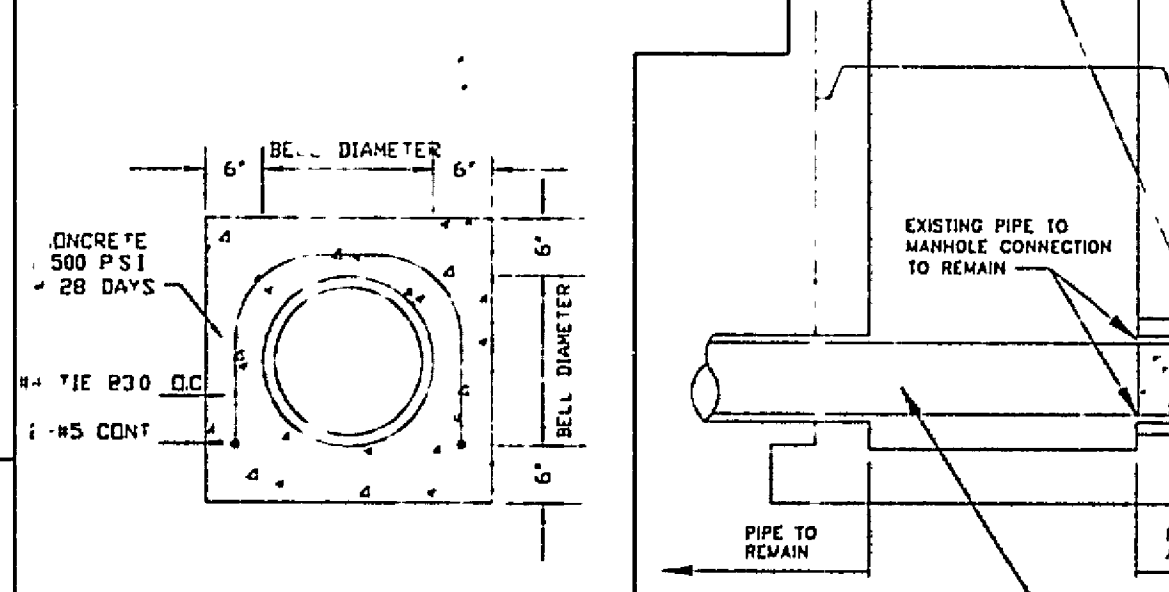
SECTION A-A



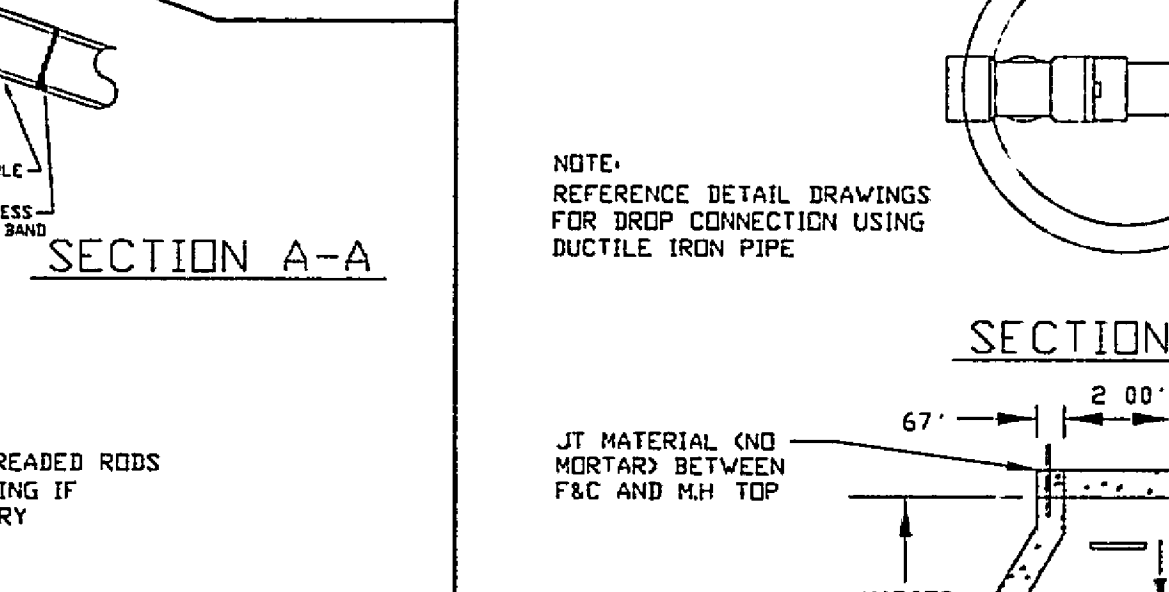
INSTALLATION DETAIL FOR ALL FRAMES AND COVERS



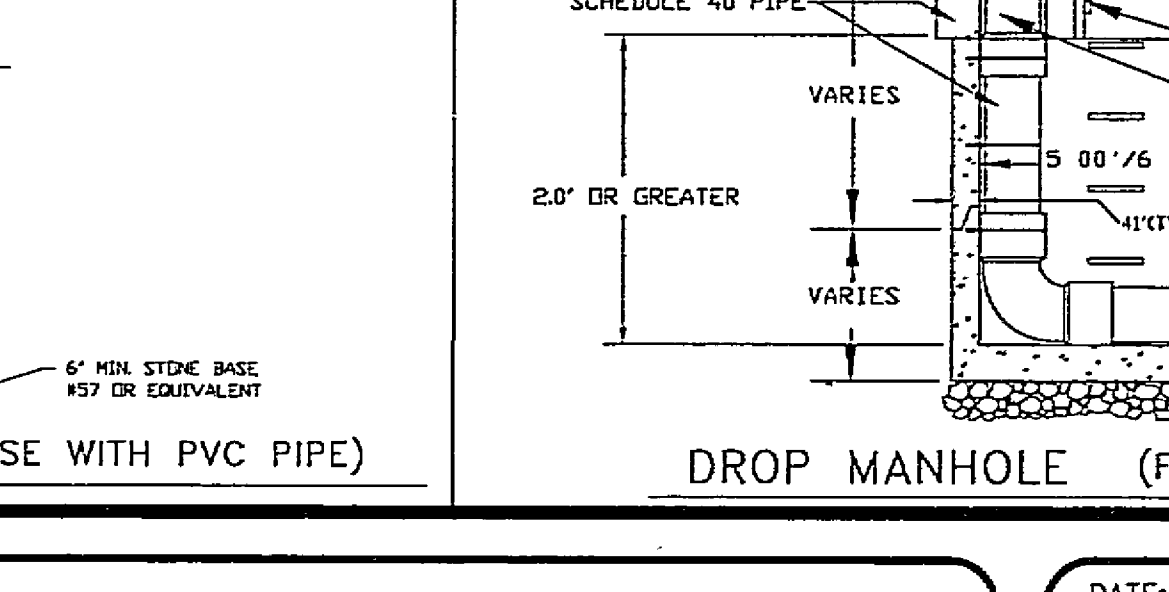
SANITARY SEWER PIPE ABANDONMENT AT A MANHOLE



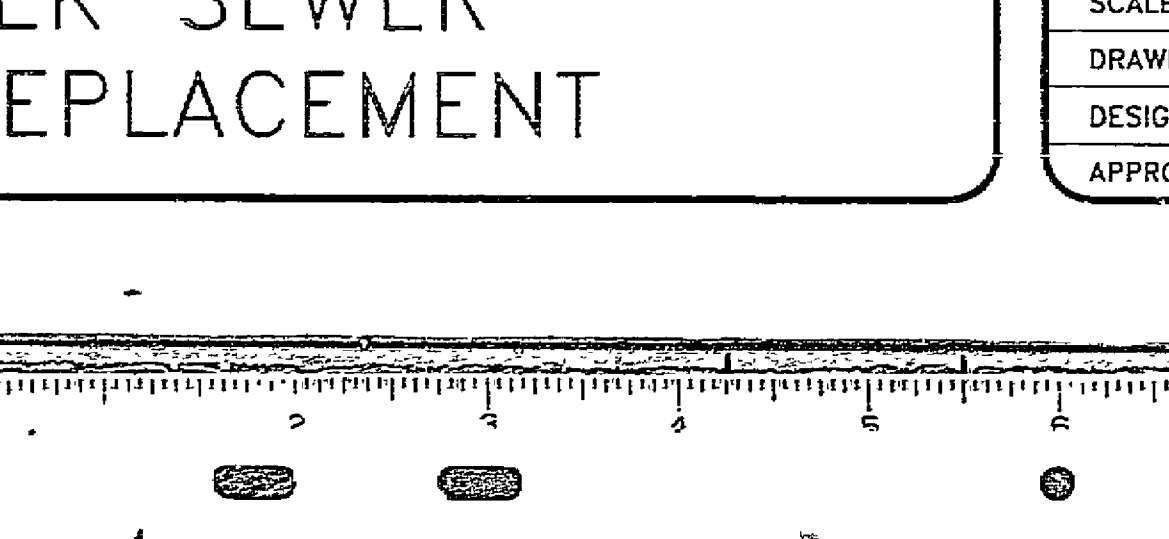
CONCRETE ENCASED PIPE



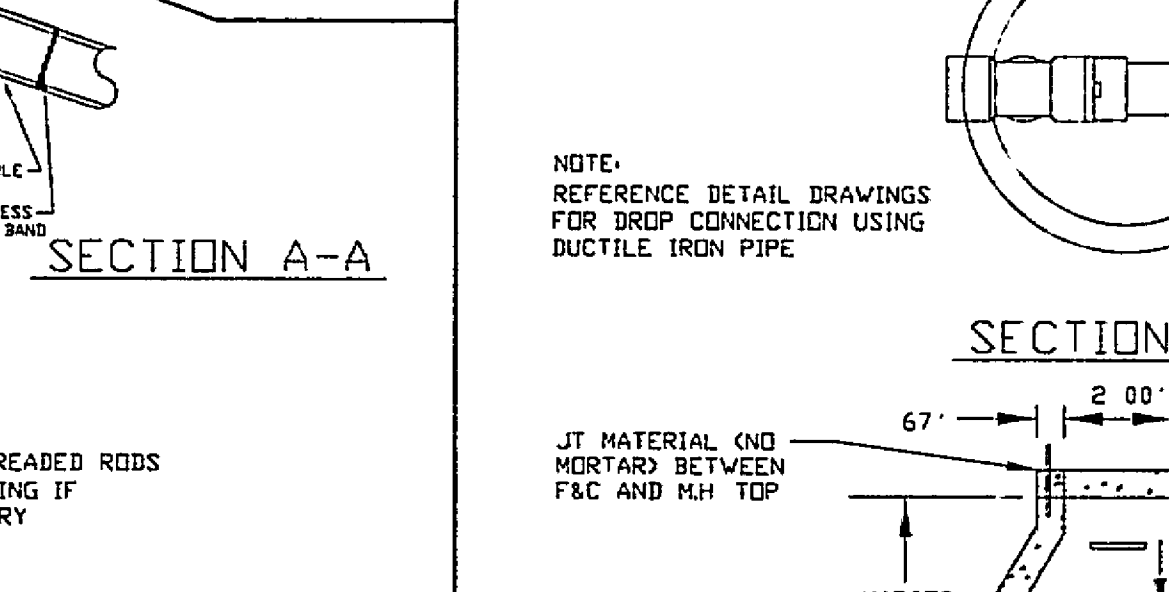
DROP MANHOLE (FOR USE WITH PVC PIPE)



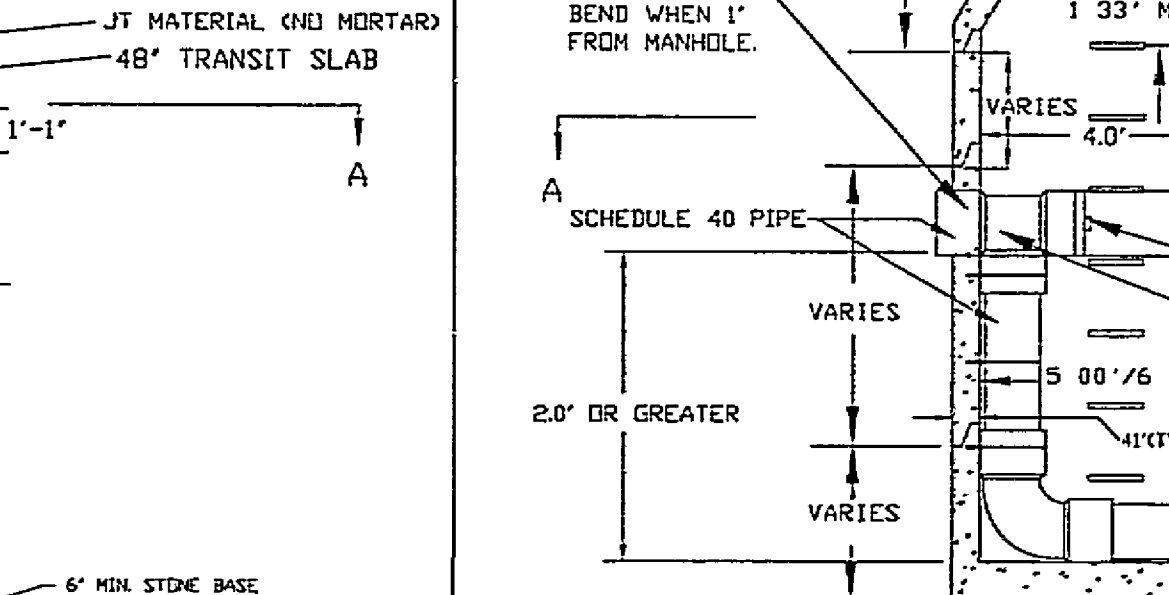
MAINLINE MANHOLE (FOR USE WITH PVC PIPE)



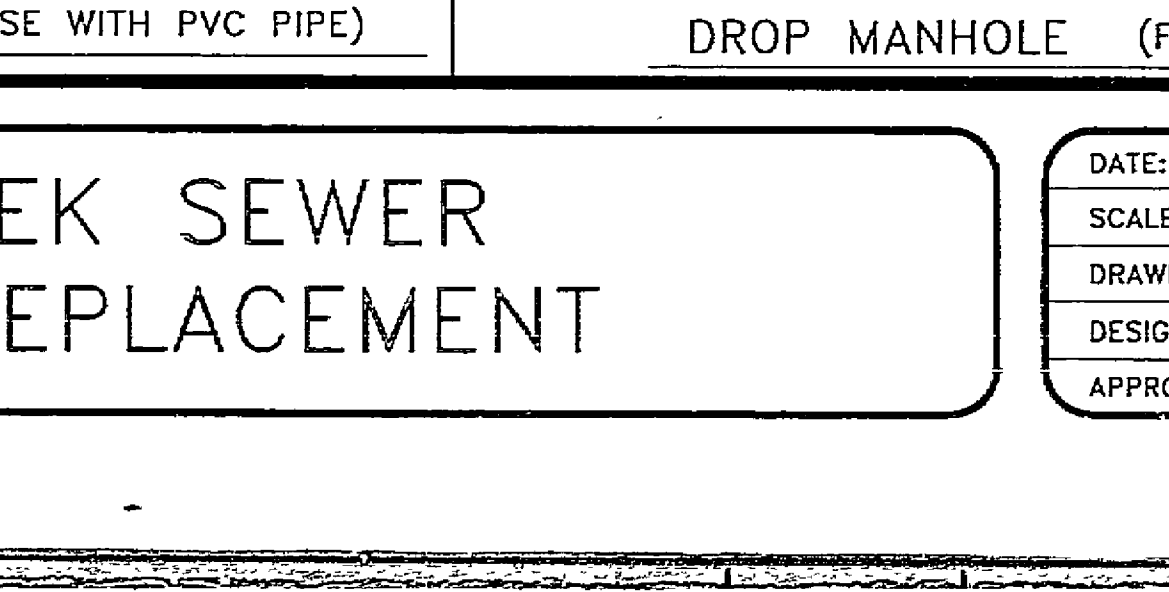
SANITARY SEWER LATERAL IN P.U.E.



SANITARY SEWER LATERAL IN P.U.E.



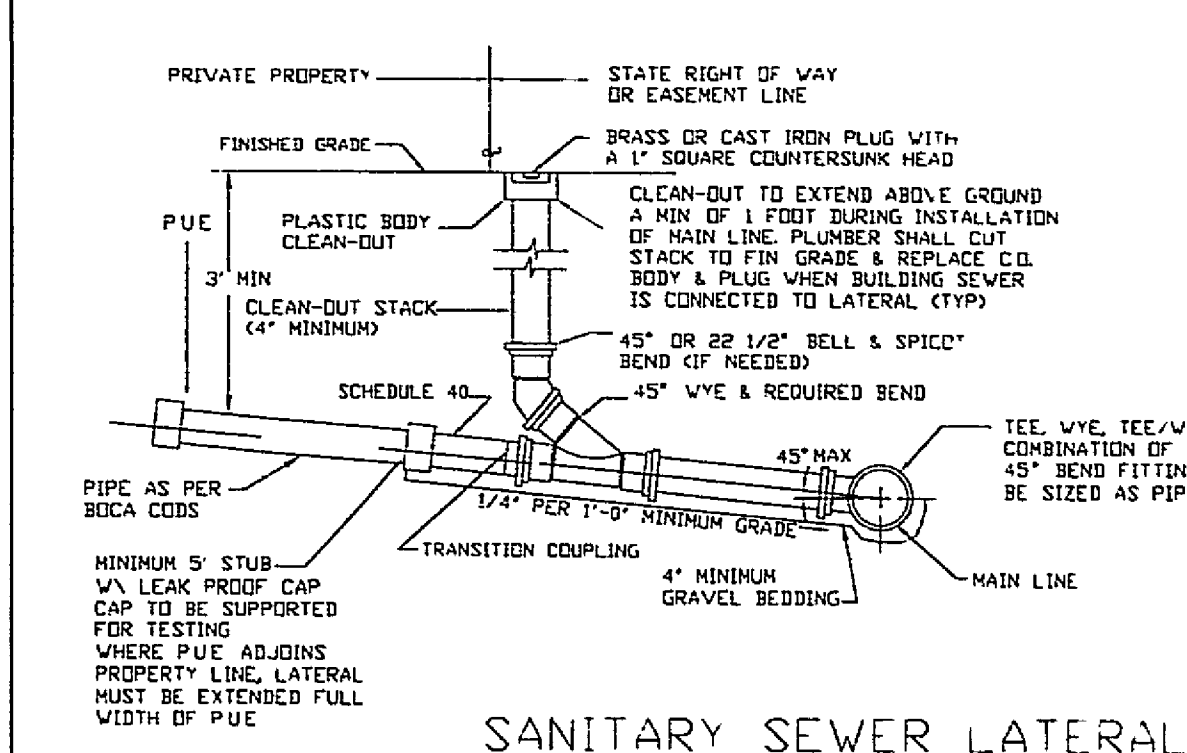
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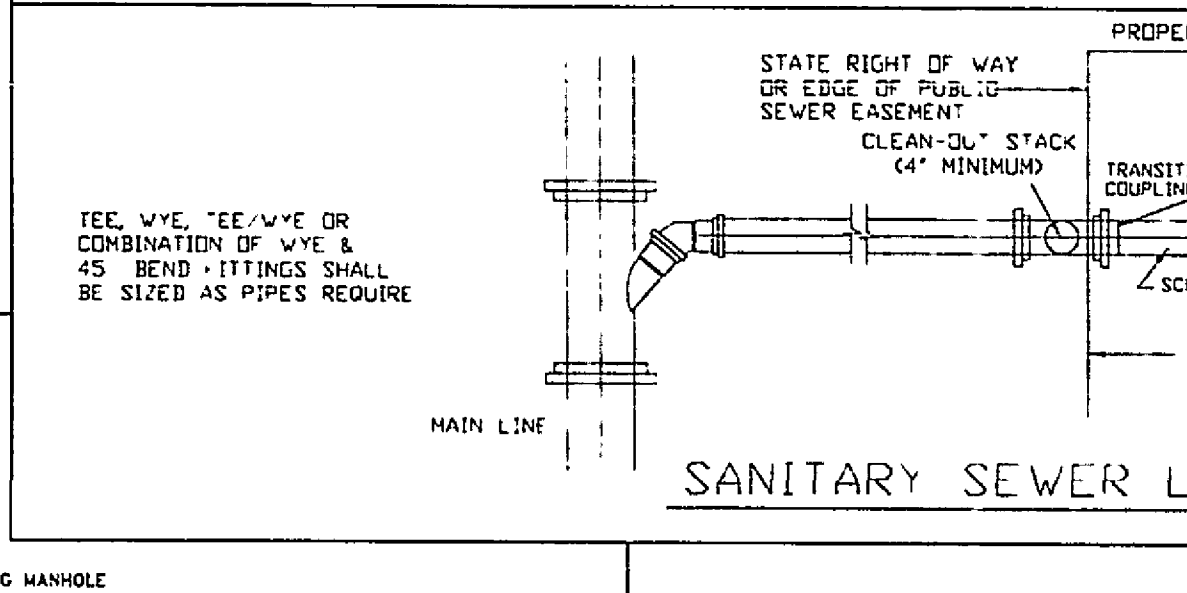
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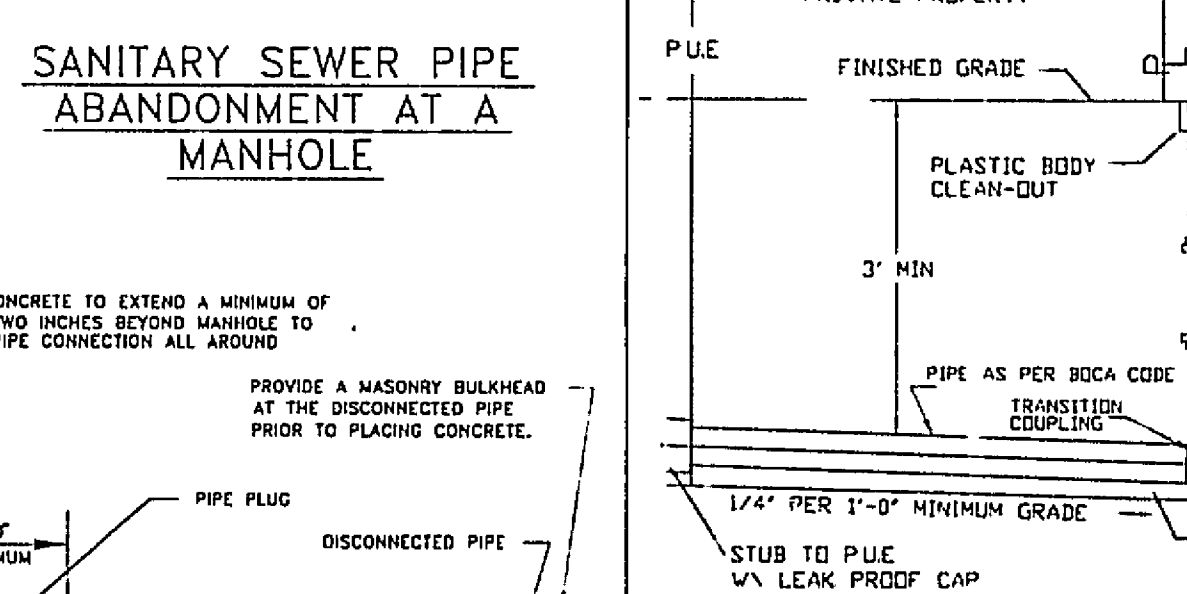
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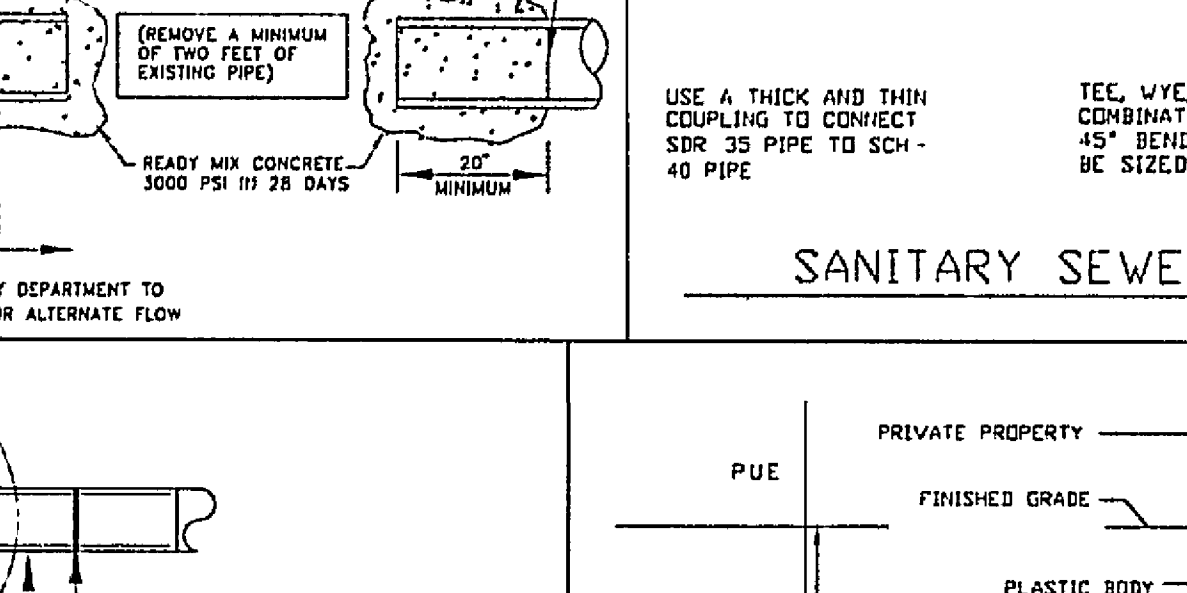
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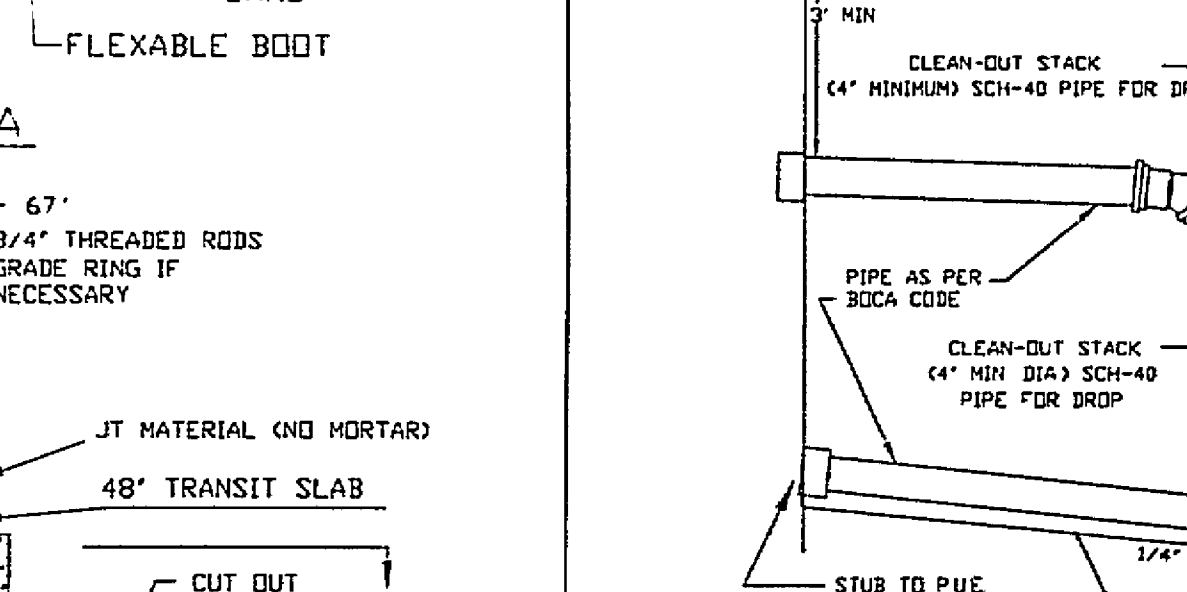
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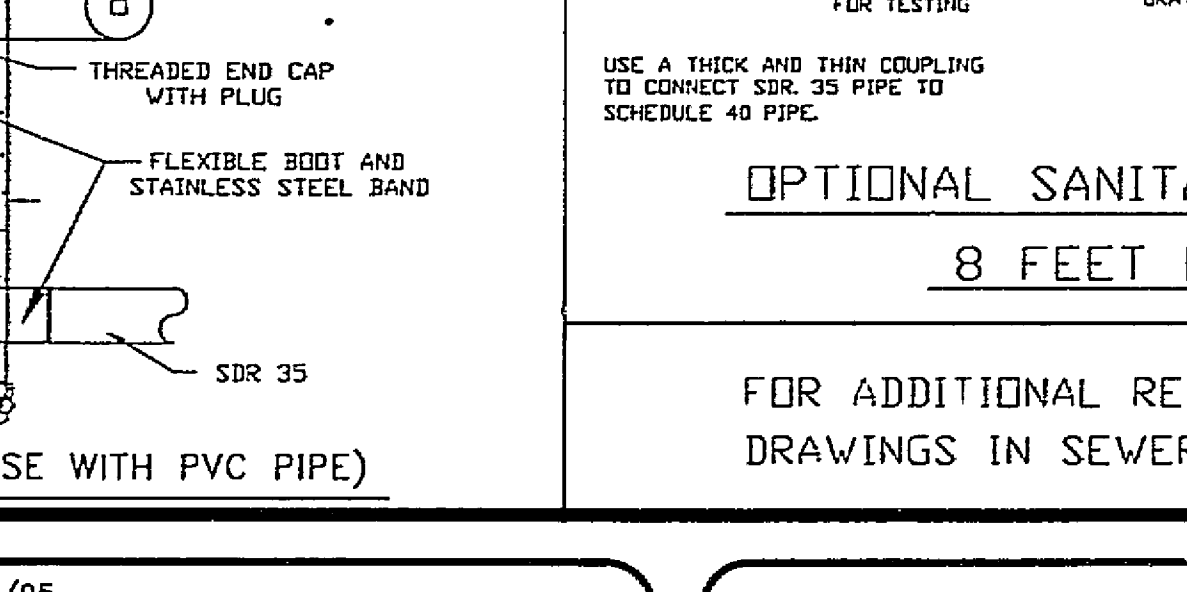
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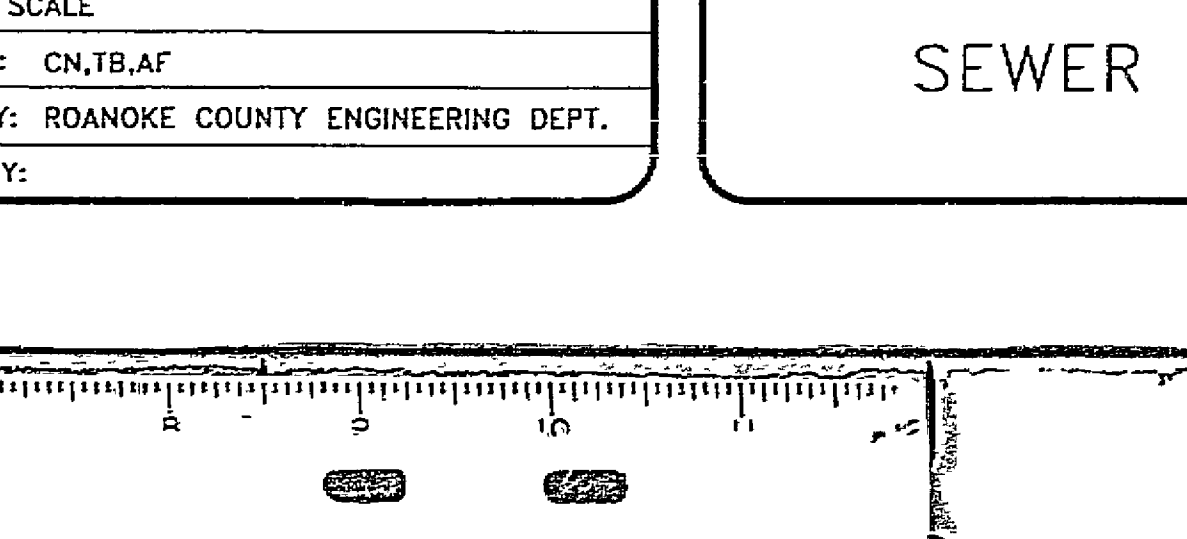
SANITARY SEWER LATERAL



SANITARY SEWER LATERAL

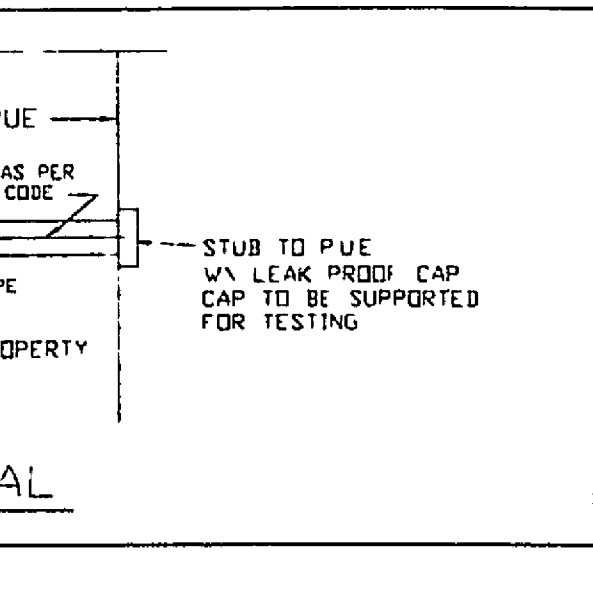


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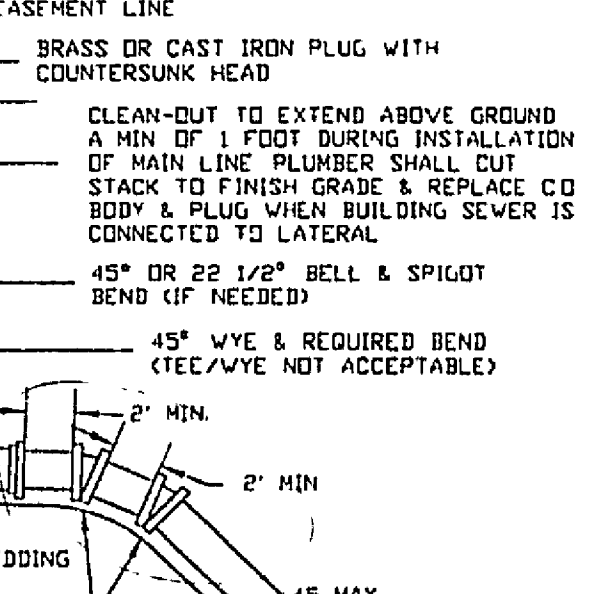


SANITARY SEWER LATERAL

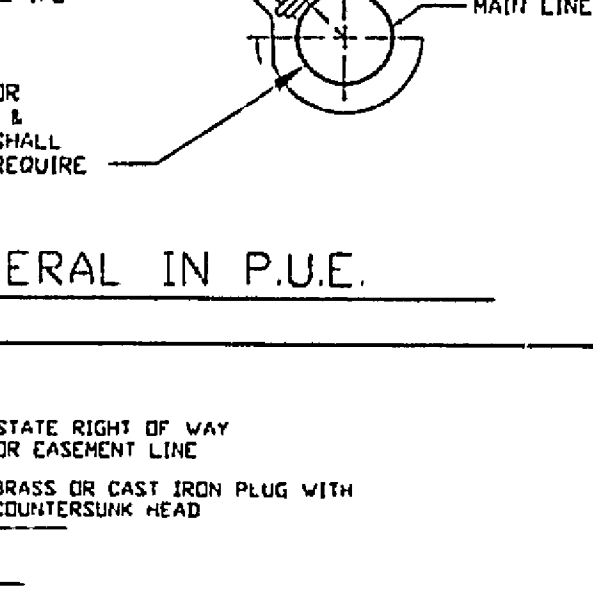
- GENERAL NOTES:
1. TRAFFIC BEARING BOX REQUIRED IN TRAFFIC AREAS.
 2. ALL PIPE AND FITTINGS SHALL BE OF SIMILAR MATERIAL.
 3. ALL PIPE SHALL BE OF SAME SIZE.
 4. NO BENDS ARE ALLOWED IN THE LATERAL FROM THE MAIN TO THE CLEAN-OUT STACK. VEE (EXCEPT AS NOTED).
 5. ALL MAIN LINE TAPS OR ACTIVE MAINS WILL BE PERFORMED BY ROANOKE COUNTY UTILITY DEPT.
 6. A DROP CONNECTION TO THE CLEAN-OUT STACK WILL BE ACCEPTABLE ONLY WHEN THE FOLLOWING CONDITIONS APPLY: (a) THE DEPTH EXCEEDS 8 FEET (b) CLEAN-OUT STACK AND FITTINGS ARE SCH-40 PIPE (c) LATERAL MUST BE MIN 15' FROM PROPERTY CORNER.
 7. LATERAL SIZE MINIMUM 4" FOR RESIDENTIAL SERVICE, 6" FOR NON-RESIDENTIAL SERVICE.
 8. MINIMUM COVER FOR ALL SEWER LATERALS SHALL BE THREE (3) FEET.



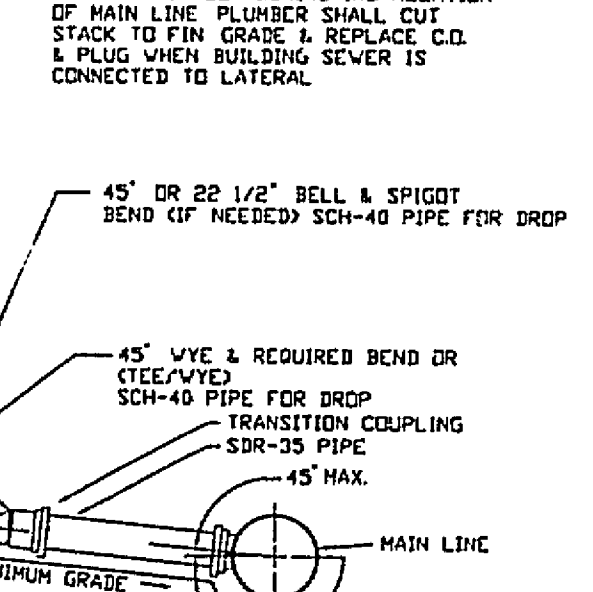
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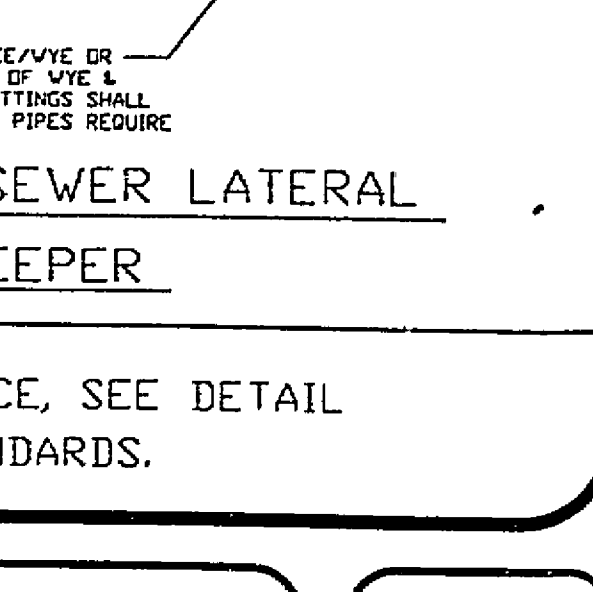
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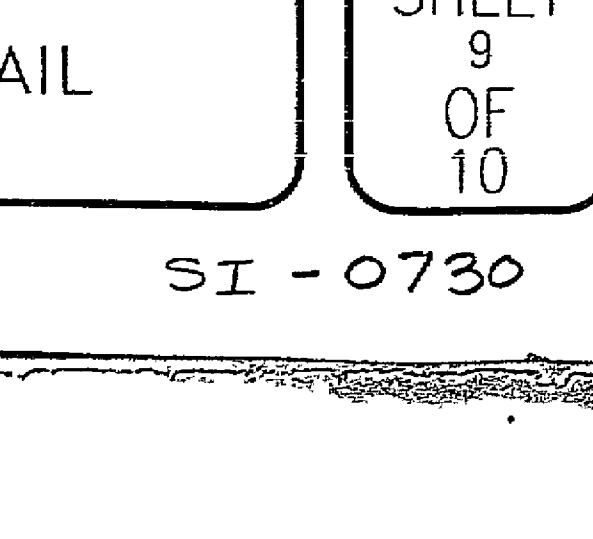
SANITARY SEWER LATERAL



SANITARY SEWER LATERAL



SANITARY SEWER LATERAL



SANITARY SEWER LATERAL

FOR ADDITIONAL REFERENCE, SEE DETAIL DRAWINGS IN SEWER STANDARDS.

OPTIONAL SANITARY SEWER LATERAL 8 FEET OR DEEPER



DEPARTMENT OF ENGINEERING AND INSPECTIONS

1		04/26/94
2		
3		
4		
5		
6		
NO.	REVISIONS	DATE

MUDLICK CREEK SEWER INTERCEPTOR REPLACEMENT

DATE: 1/20/95
SCALE: NO SCALE
DRAWING BY: CN, TB, AF
DESIGNED BY: ROANOKE COUNTY ENGINEERING DEPT.
APPROVED BY:

SEWER DETAIL

SHEET 9 OF 10

SI - 0730