

DESMAN
ASSOCIATES
A DIVISION OF DESMAN, INC.
NEW YORK CHICAGO WASHINGTON, D.C. HARTFORD BOSTON CLEVELAND LAS VEGAS



CAMPBELL AVENUE
PARKING DECK
ROANOKE, VIRGINIA

CN NO: 2426.2
DATE: 6/15/07
DESIGN: JJB
DRAWN: JAW
REVIEW: TAR

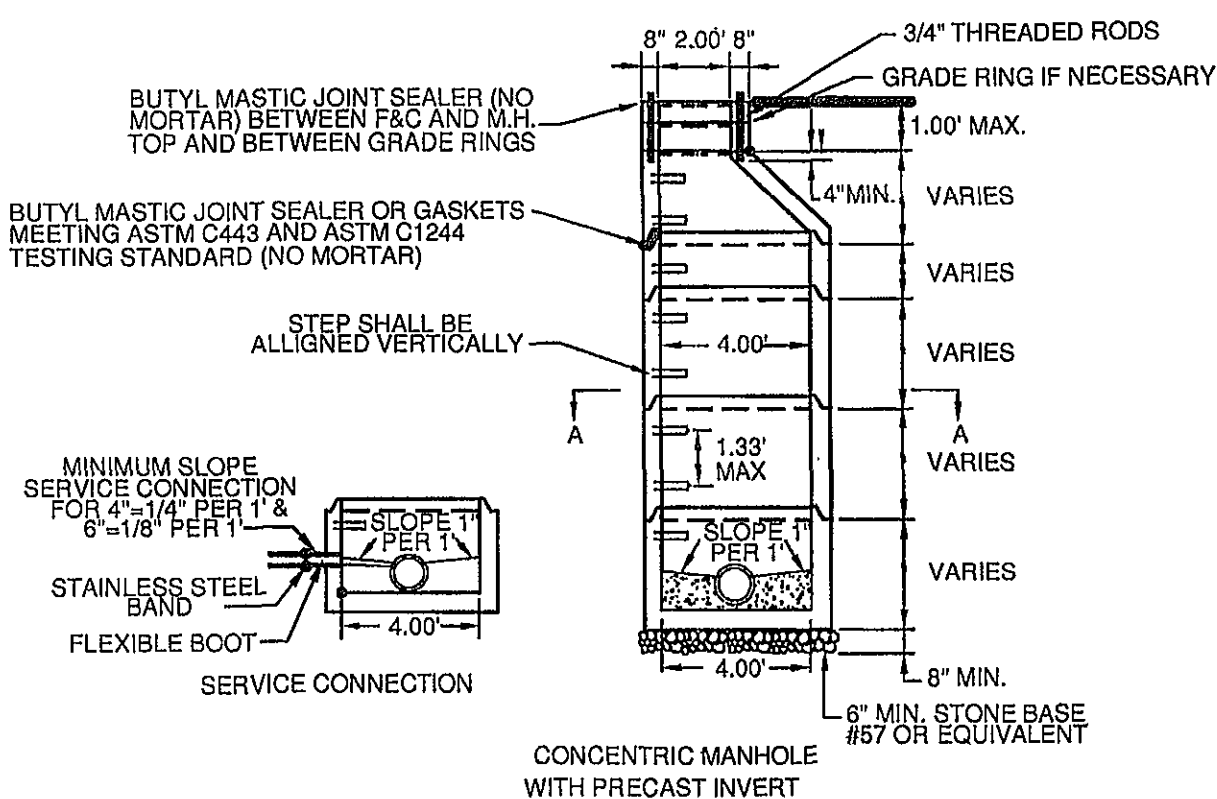
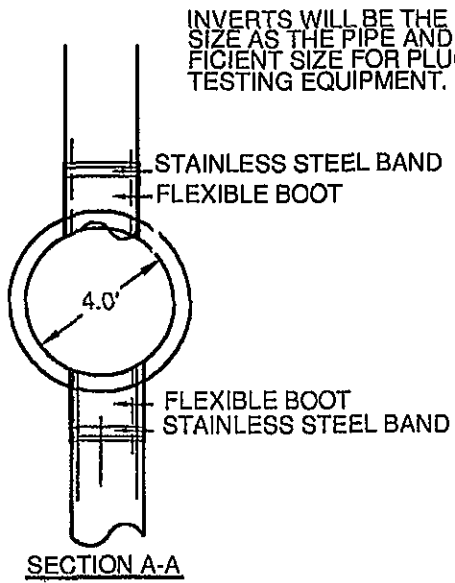
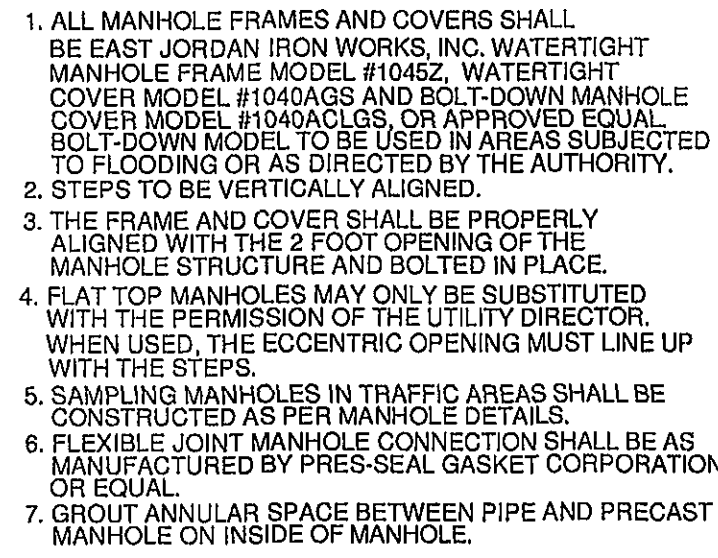
REVISIONS

No.	Date	Description	By
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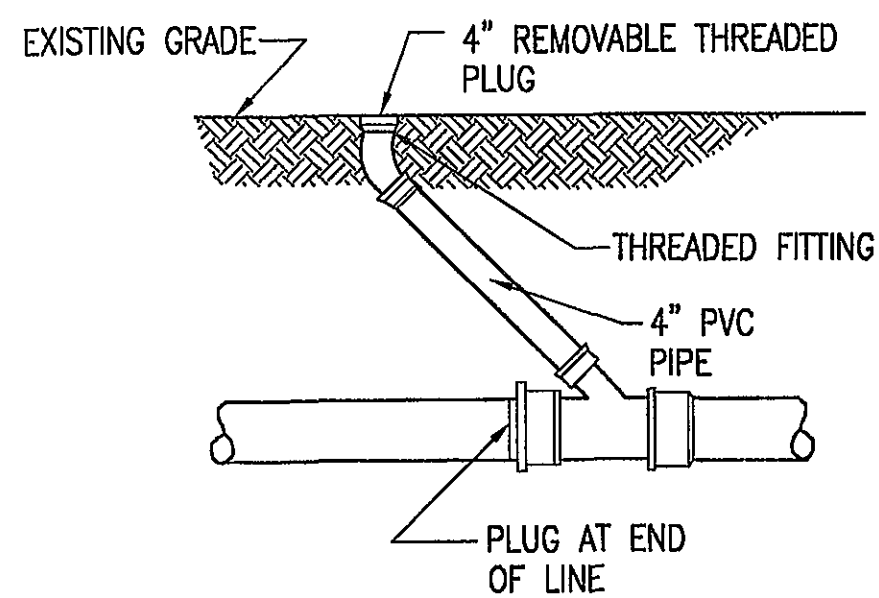
DETAILS

C1501

SHEET 9 OF 11

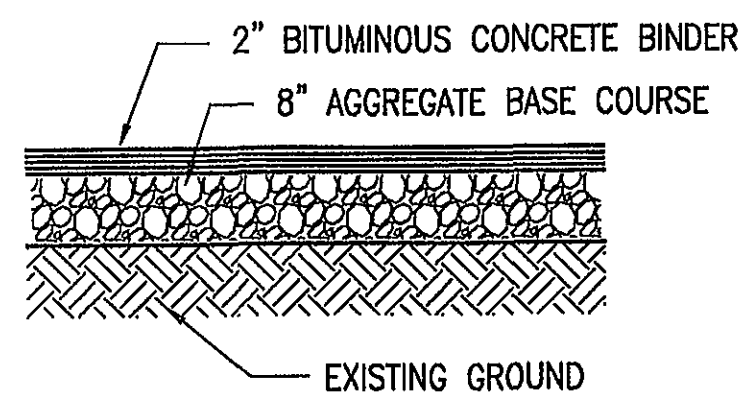


WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS			
REVISION DATE		4' STANDARD MANHOLE FOR PIPE 15" OR SMALLER	S-01
07/01/04			
03/01/06			



CLEANOUT DETAIL

NO SCALE



NOTES:

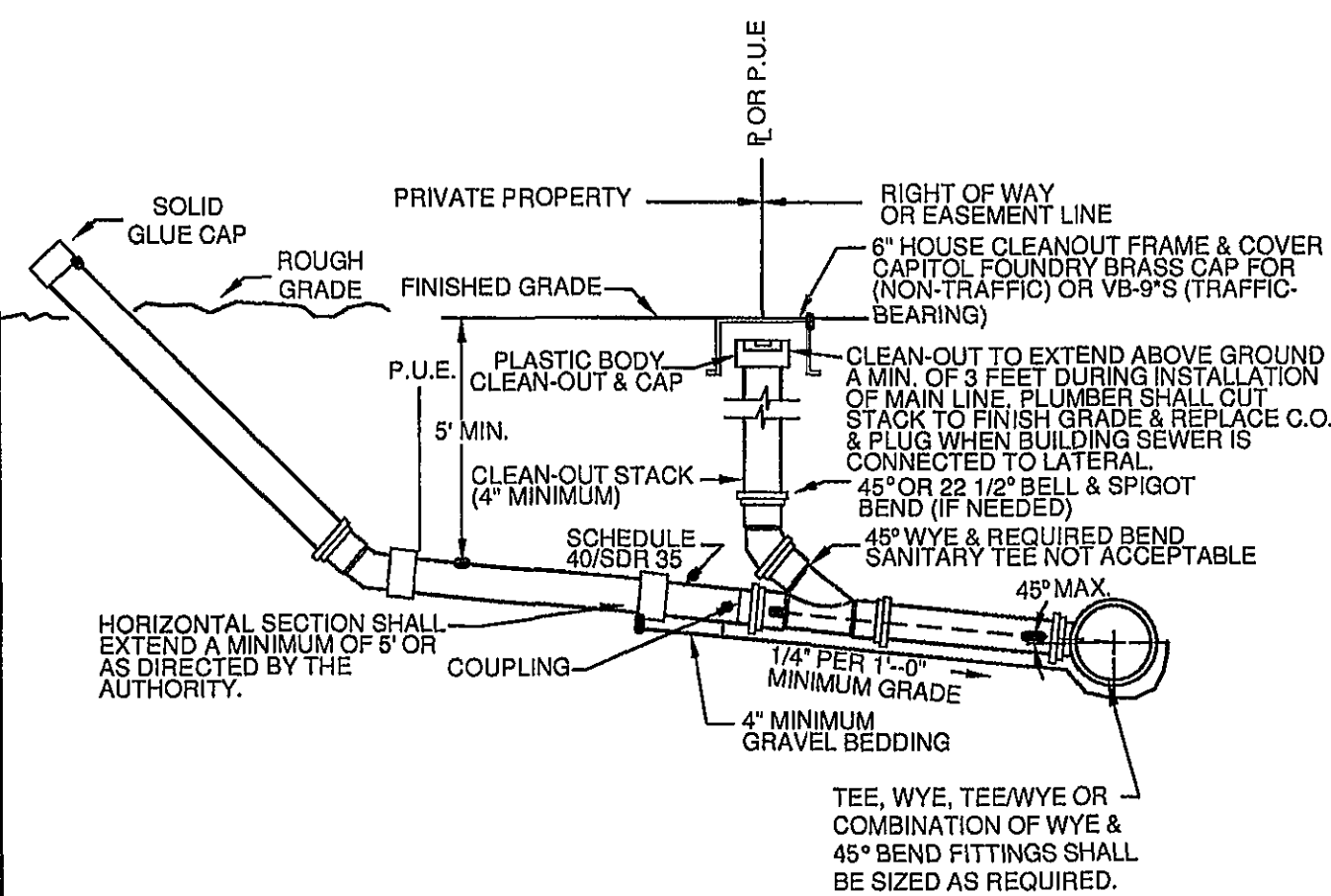
AGGREGATE SHALL BE LAID AND COMPACTED
IN TWO LIFTS (4" THICK)

TYPICAL PAVEMENT SECTION

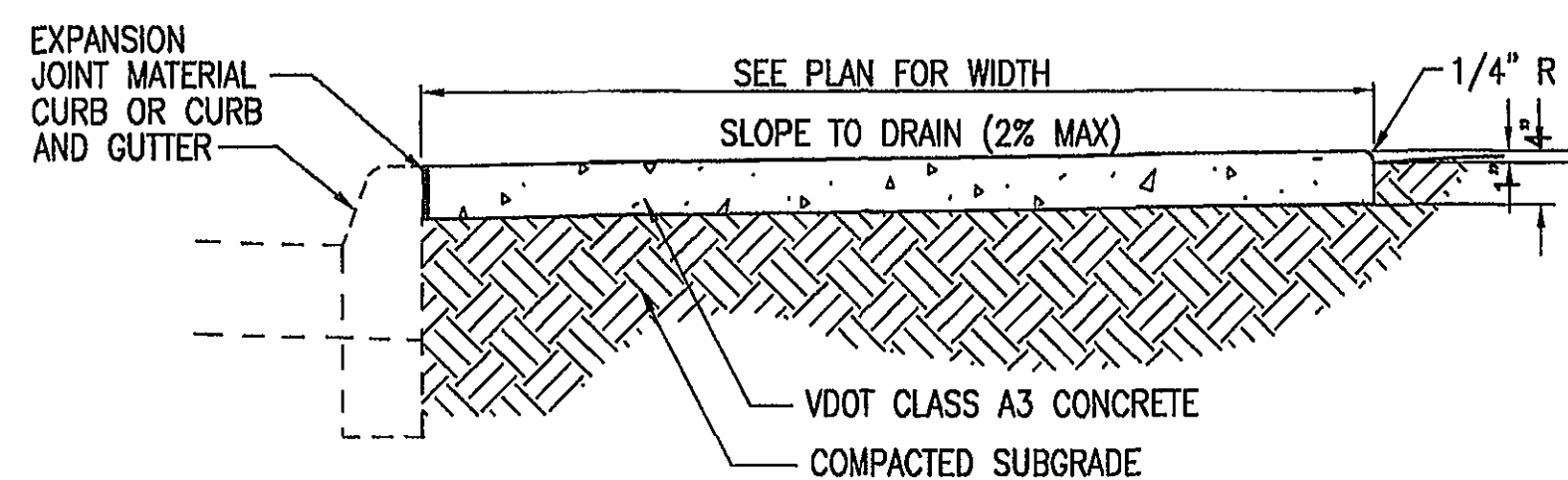
NO SCALE

GENERAL NOTES:

1. TRAFFIC BEARING BOB 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 WITHIN 10' LATERAL FROM THE MAIN TO THE CLEANOUT STACK WYE, (EXCEPT AS NOTED)
5. ALL MAIN LINE TAPS ON ACTIVE MAINS WILL BE PERFORMED BY WESTERN VIRGINIA WATER AUTHORITY.
6. PIPING BEHIND CLEANOUT TO BE INSTALLED PER BOCA CODE.
7. MINIMUM LATERAL SIZE:
 - 4" FOR RESIDENTIAL SERVICE
 - 6" FOR NON-RESIDENTIAL SERVICE
8. MINIMUM COVER FOR ALL SEWER LATERALS SHALL BE THREE(3) FEET.
9. PROPERTY OWNER RESPONSIBLE FOR INSTALLING CLEANOUT ON PROPERTY LINE. MAINS MAINTAINED BY THE CITY IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
10. A DOWNLINE AT CLEANOUT WYE SHALL BE A MINIMUM OF THREE FEET (3') BELOW LOWEST SURFaced FINISHED FLOOR.

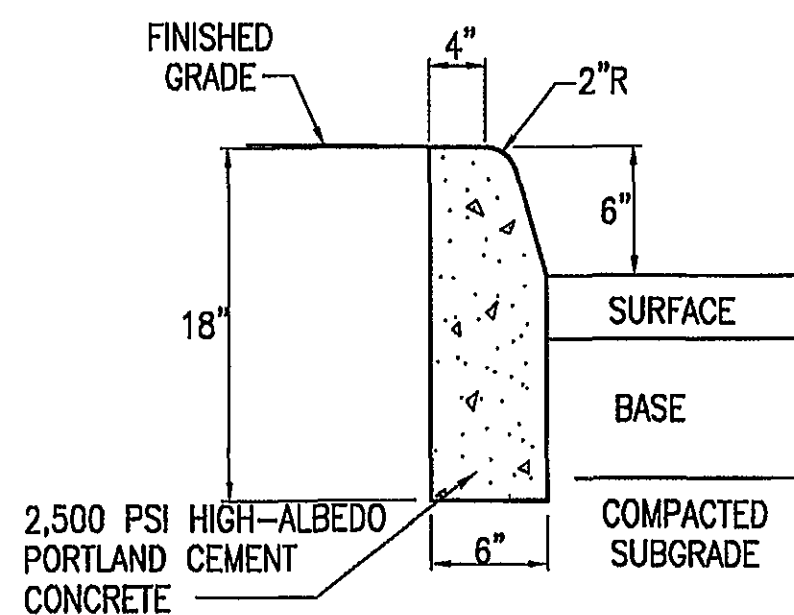


WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS			
REVISION	DATE	SANITARY SEWER LATERAL	S-08
07	01/04		
03	01/06		



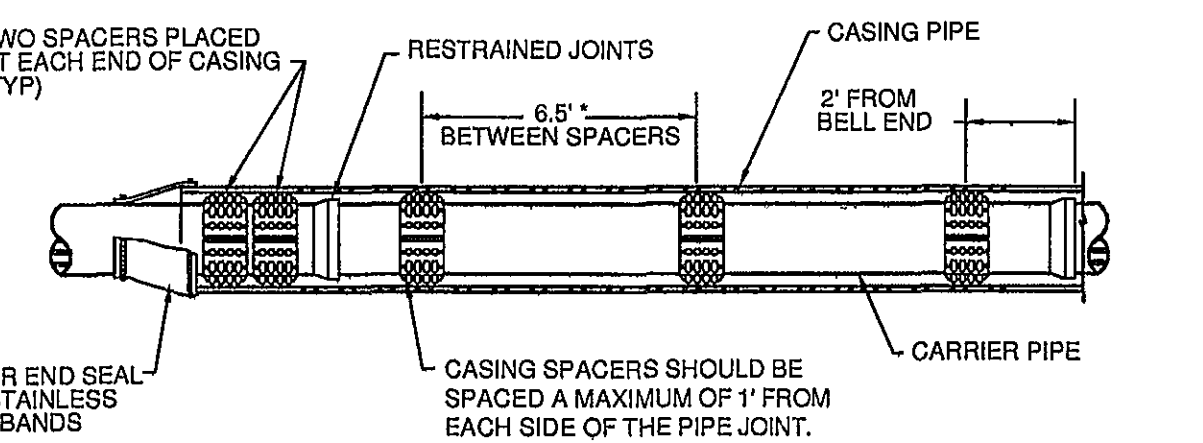
TYPICAL CONCRETE SIDEWALK

NO SCALE

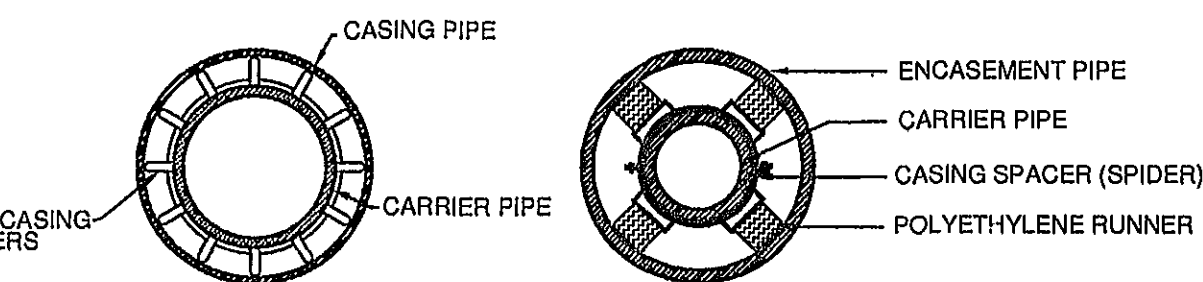


CONCRETE CURB (CG-2)

NO SCALE

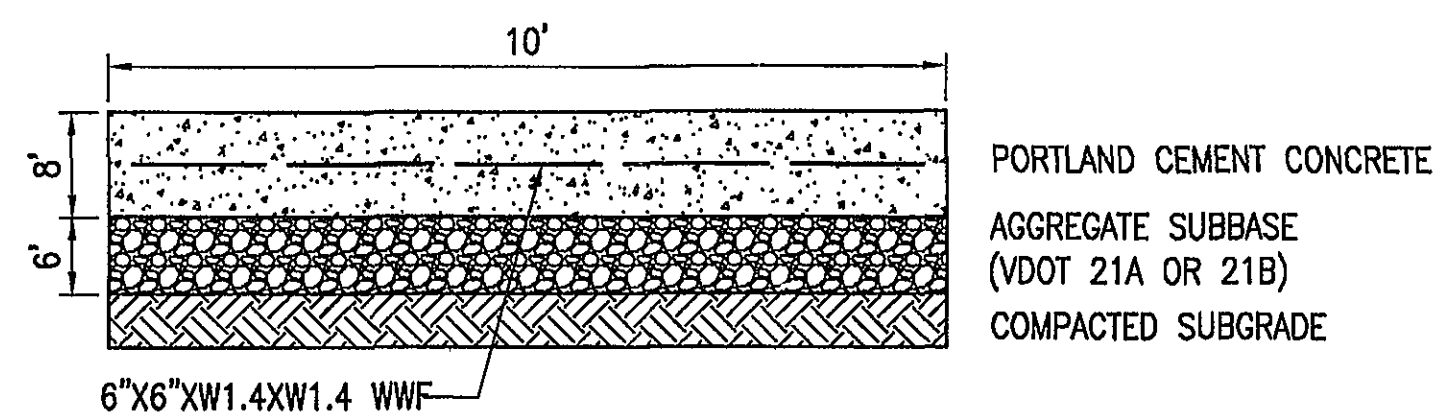


* ADDITIONAL SPACING ALLOWED AS RECOMMENDED BY PIPE MANUFACTURER.



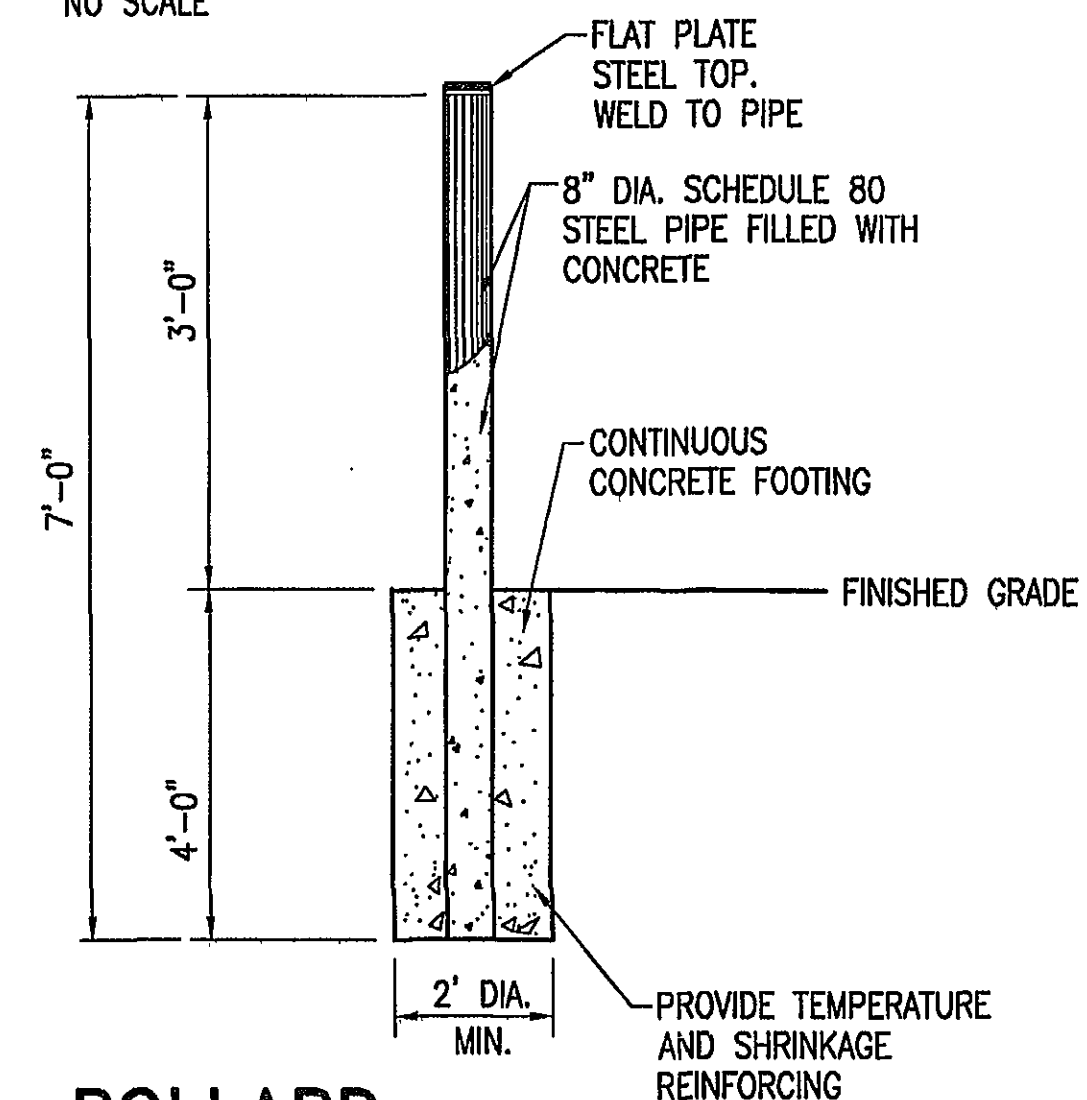
- NOTES:
1. A 1" DRAIN WILL BE REQUIRED ON THE LOWER END OF THE CASING IF THE CASING ENDS ARE SEALED WITH MORTAR AND BRICK.
 2. SPACERS SHALL BE RACI HDPE, SPIDER OR EQUIVALENT.
 3. SPACERS SHALL BE SPACED 6 1/2' ON SEWER PIPE.
 4. CARRIER PIPE SHALL BE DUCTILE OR HDPE IN ACCORDANCE WITH THE AUTHORITY STANDARDS.

WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		
REVISION DATE		
07/01/04	PIPE SUPPORT IN CASING PIPE	S-18
03/01/06		



GENERATOR PAD

NO SCALE



BOLLARD

NO SCALE