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**Sanitary Sewer Extension Along
Broadlawn Rd. & Lynnhope Dr.
For Western Virginia Water Authority**
Blks 1, 3, & 7, Sec 1, Covehaven Court
City of Roanoke, VA

REVISIONS:

DESIGNED BY: SLR

DRAWN BY: SLR

CHECKED BY: PJB

SCALE: As Shown

DATE: June 1, 2006

SHEET TITLE:

**Broadlawn Road
Sanitary Sewer
Profiles & Details**

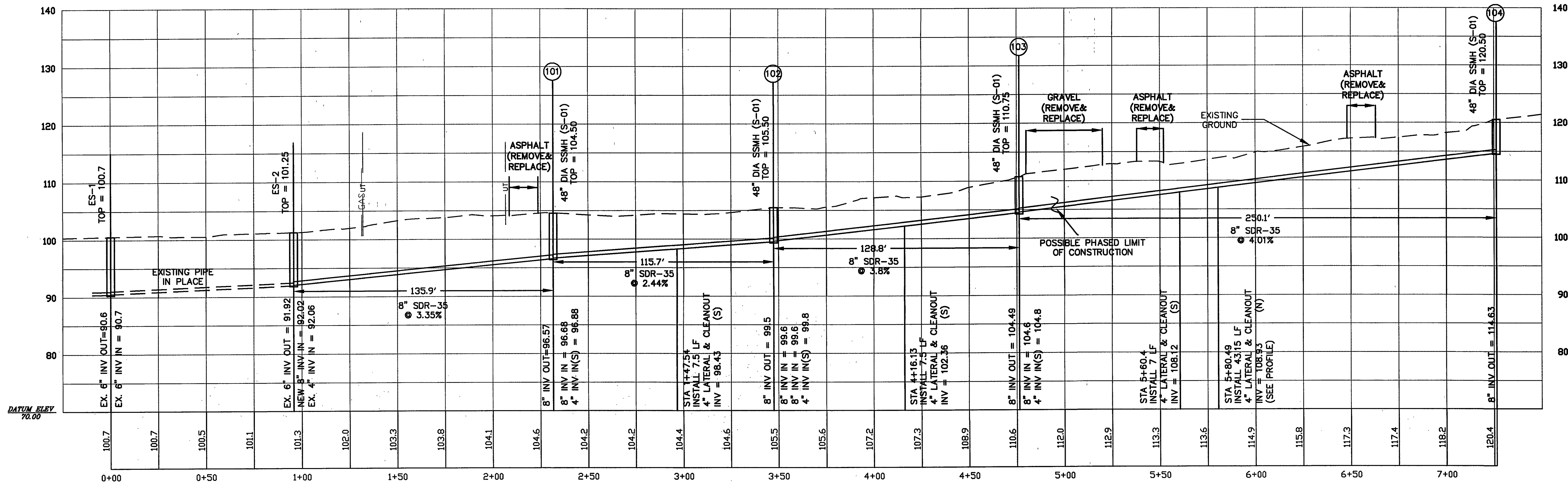
C03

03 OF 05

PROJECT NUMBER:

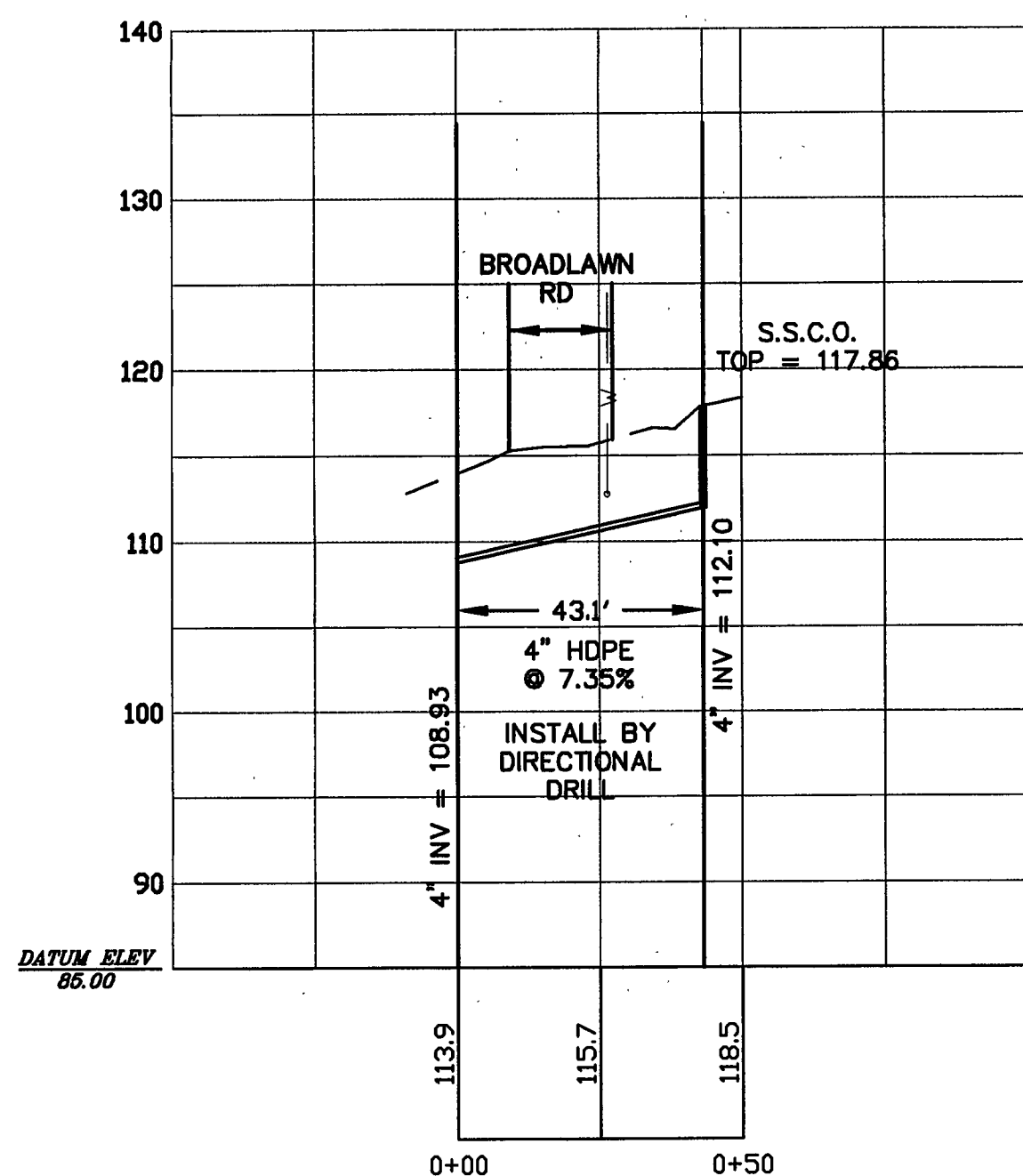
06-0140-01

WWW.ID# 6X5PFB



**SANITARY SEWER LINE EXTENSION PROFILE - BROADLAWN RD
FROM SANITARY SEWER MANHOLE ES-1 TO ES-2 TO 101 THROUGH 104**

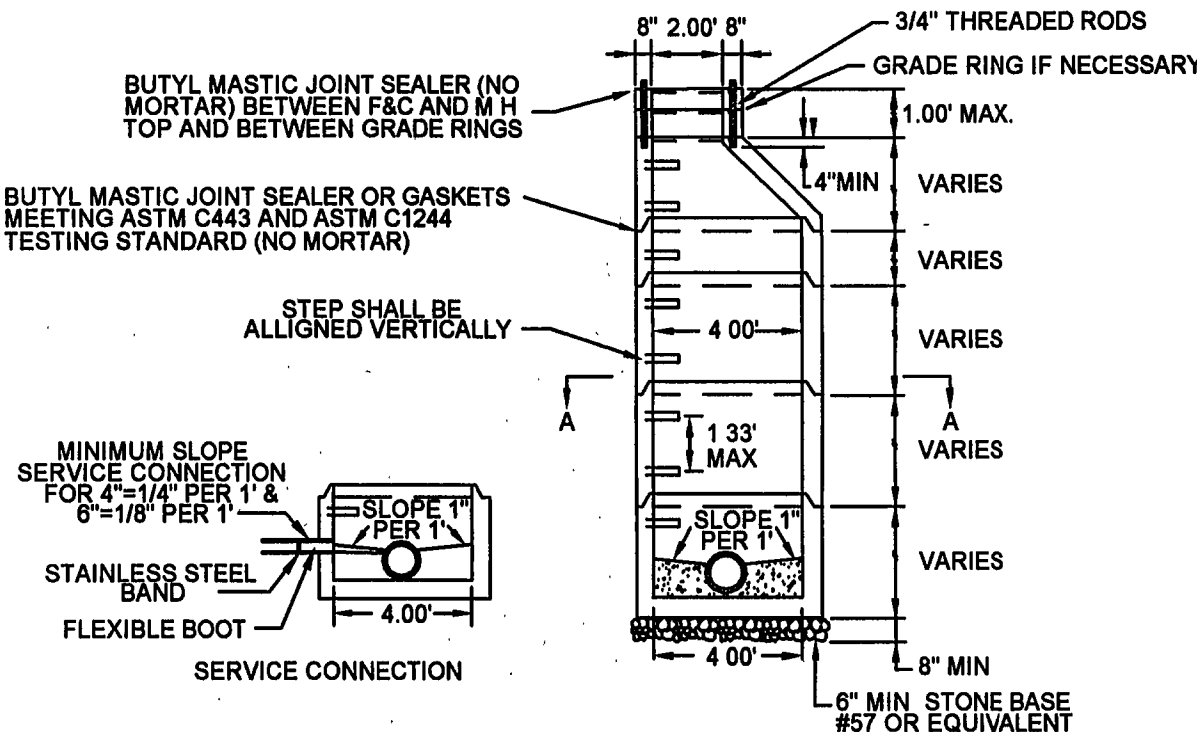
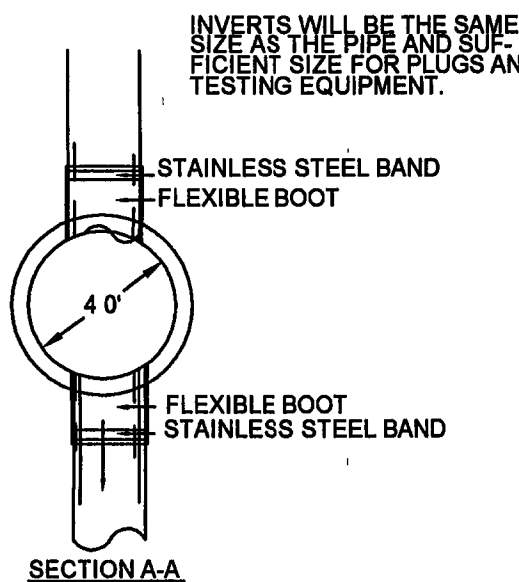
1"=30' HORIZONTAL
1"=10' VERTICAL



**STA 5+80.49, 4" LATERAL PROFILE
CROSSING BROADLAWN ROAD**
1"=30' HORIZONTAL
1"=10' VERTICAL

NOTES:

- 1 ALL MANHOLE FRAMES AND COVERS SHALL BE EAST JORDAN IRON WORKS, INC. WATERTIGHT MANHOLE FRAME MODEL #1046Z, WATERTIGHT COVER MODEL #1046GS AND BOLT-DOWN MANHOLE COVER MODEL #1046CLS, OR APPROVED EQUAL. BOLT-DOWN MANHOLE COVER TO BE USED IN AREAS SUBJECT TO FLOODING OR AS DIRECTED BY THE AUTHORITY.
- 2 STEPS TO BE VERTICALLY ALIGNED.
- 3 THE FRAME AND COVER SHALL BE PROPERLY ALIGNED WITH THE 2 FOOT OPENING OF THE MANHOLE STRUCTURE AND BOLTED IN PLACE.
- 4 FLAT TOP MANHOLES MAY ONLY BE SUBSTITUTED WITH THE PERMISSION OF THE UTILITY DIRECTOR. WHEN USED, THE ECCENTRIC OPENING MUST LINE UP WITH THE STEPS.
- 5 SAMPLING MANHOLES IN TRAFFIC AREAS SHALL BE CONSTRUCTED AS PER MANHOLE DETAILS.
- 6 FLEXIBLE JOINT MANHOLE CONNECTION SHALL BE AS MANUFACTURED BY PRES-SEAL GASKET CORPORATION OR EQUAL.
- 7 GROUT ANNULAR SPACE BETWEEN PIPE AND PRECAST MANHOLE OR INSIDE OF MANHOLE.



N.T.S.

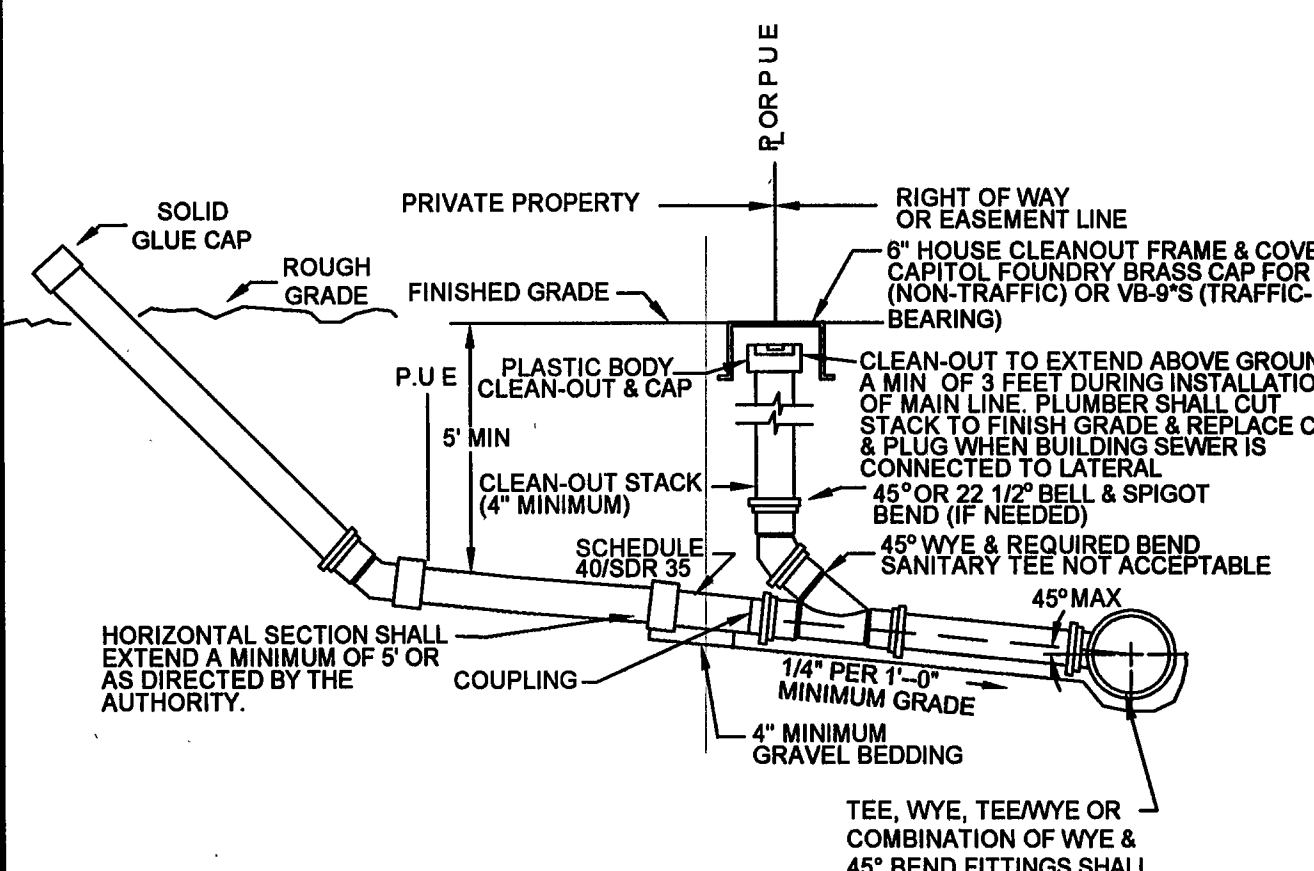
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION	DATE	DESCRIPTION	BY
07/01/04			
03/01/06			

4" STANDARD MANHOLE FOR PIPE 15" OR SMALLER	S-01
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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 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 WHEN MAINTENANCE OCCURS, IN ACCORDANCE WITH THIS STANDARD.
- 10 FLOWLINE AT CLEANOUT WYE SHALL BE A MINIMUM OF THREE FEET (3) BELOW LOWEST SERVED FINISHED FLOOR.



N.T.S.

WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION	DATE	DESCRIPTION	BY
07/01/04			
03/01/06			

SANITARY SEWER LATERAL	S-08
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