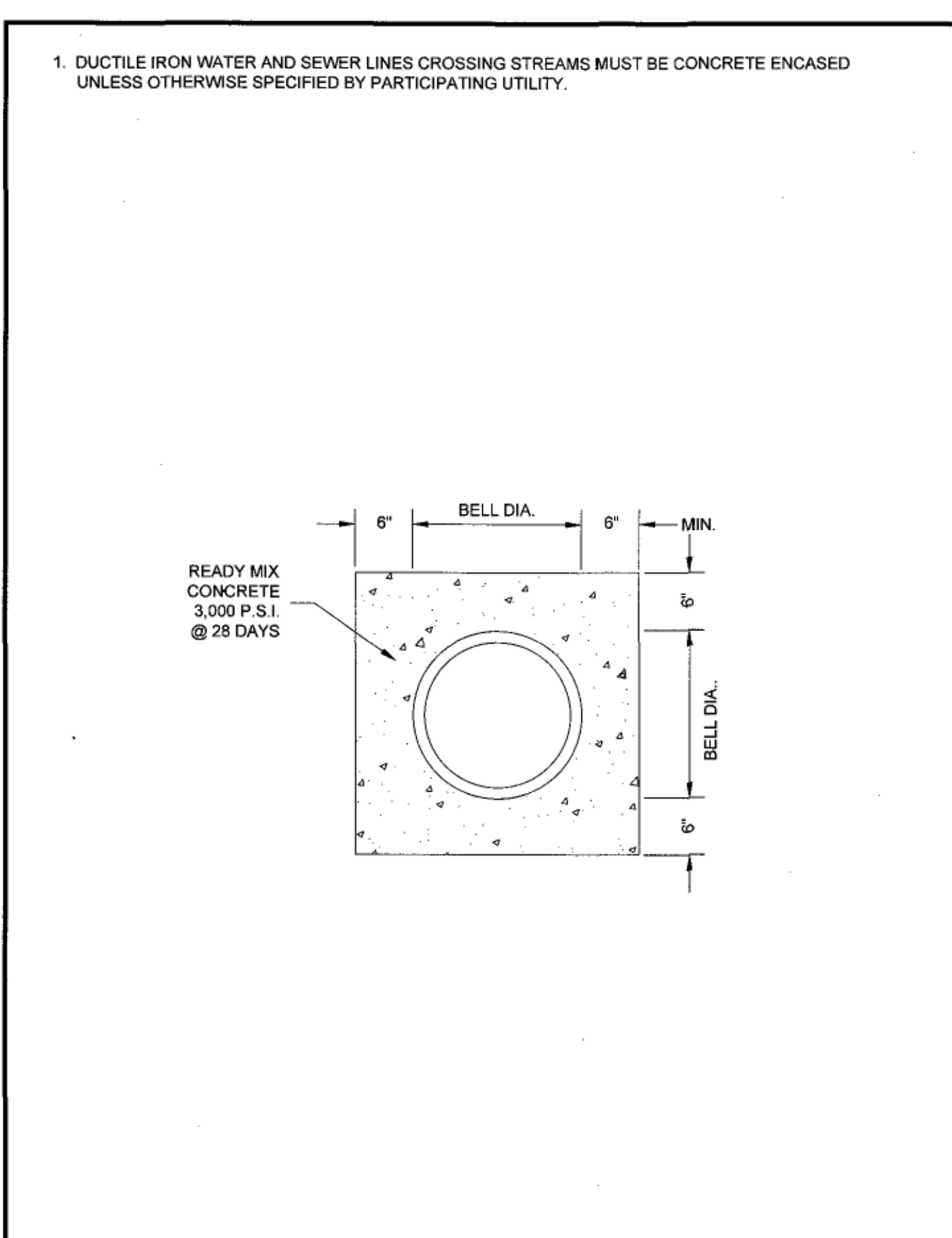
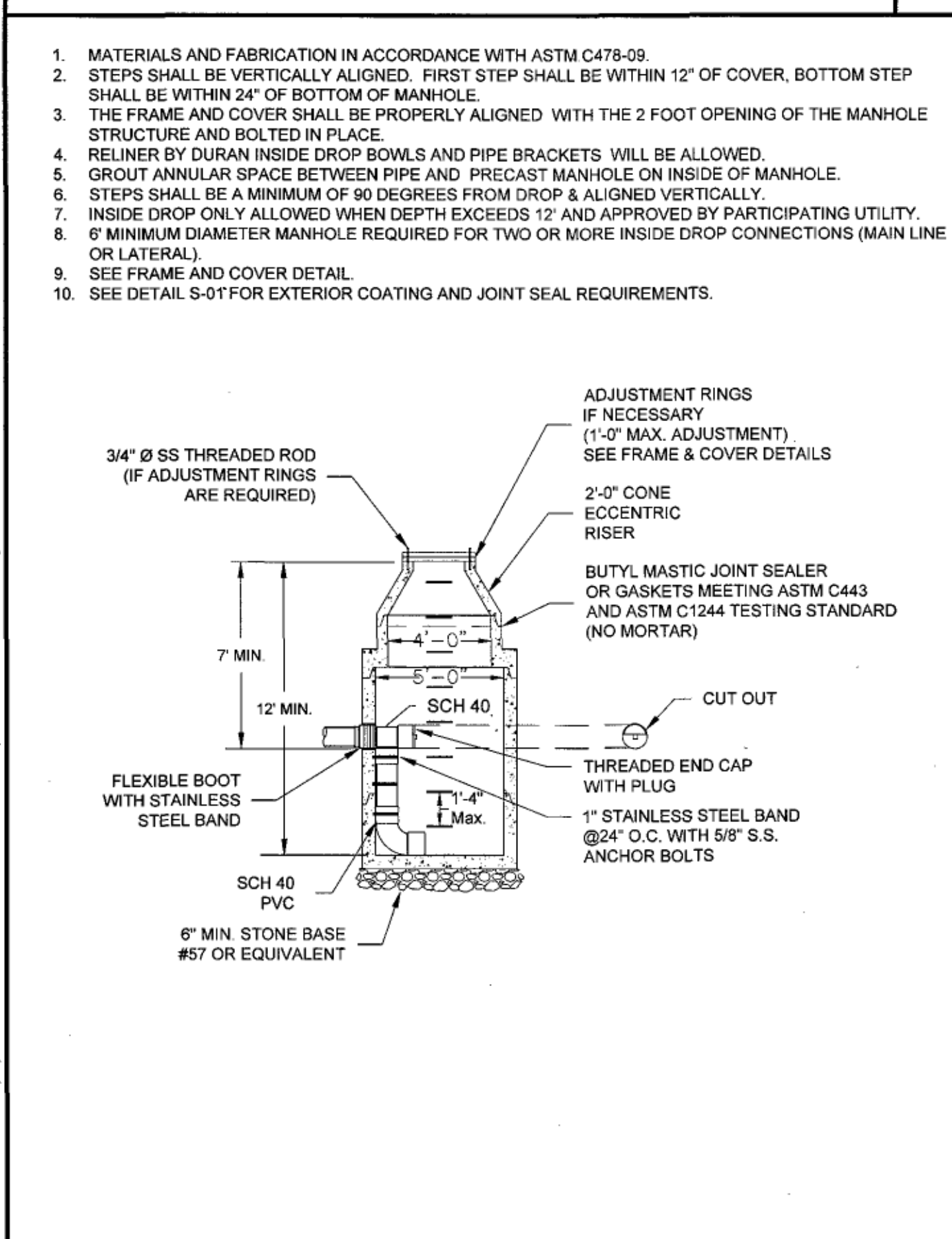


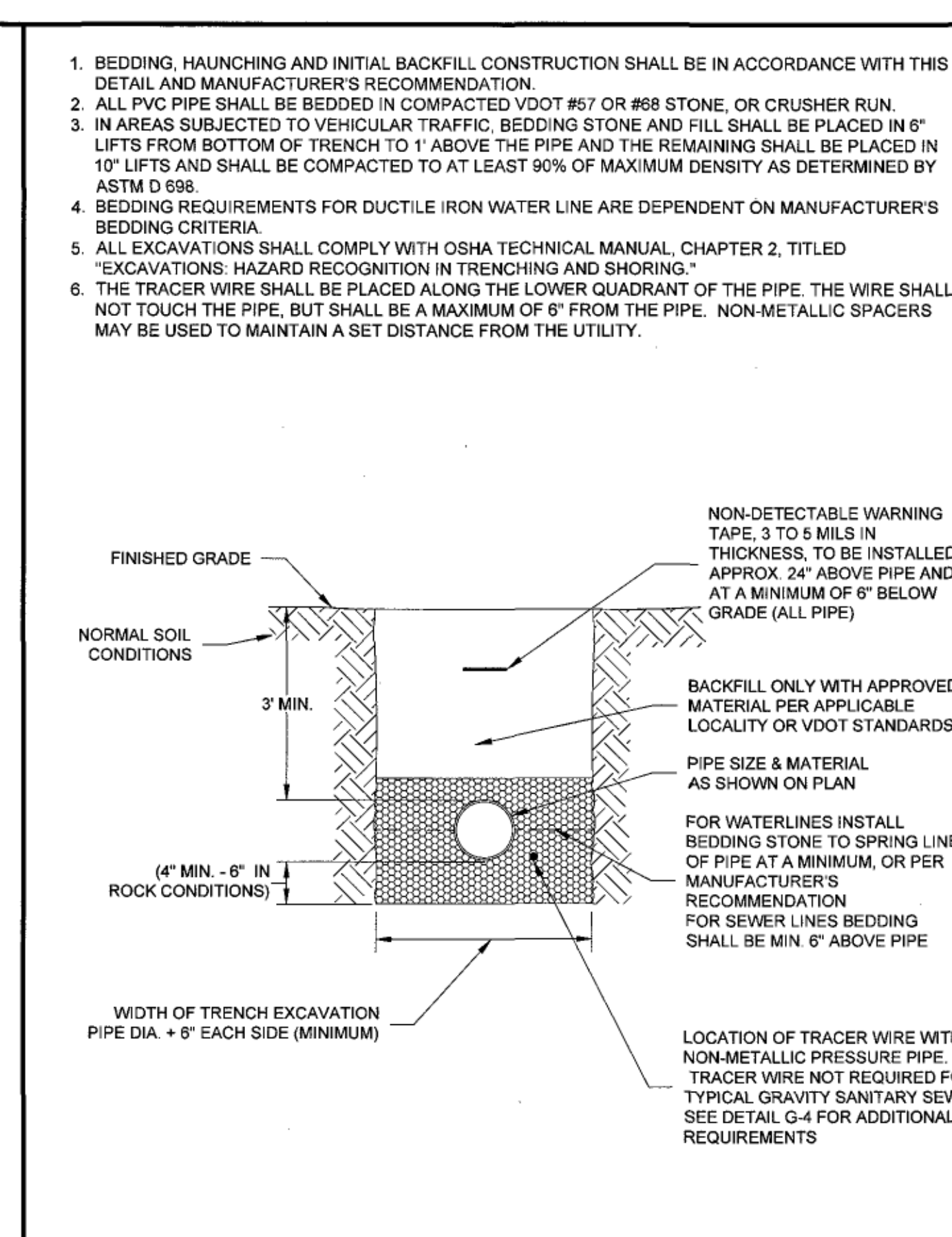
File: V:\PROJECTS\WVA\31237\CADD\ACAD\C3-C502-31237.DWG  
Saved: 3/7/2018 2:37:35 PM Plotted: 3/7/2018 11:05:18 AM Current User: Squires, Alan LastSavedBy: 5548



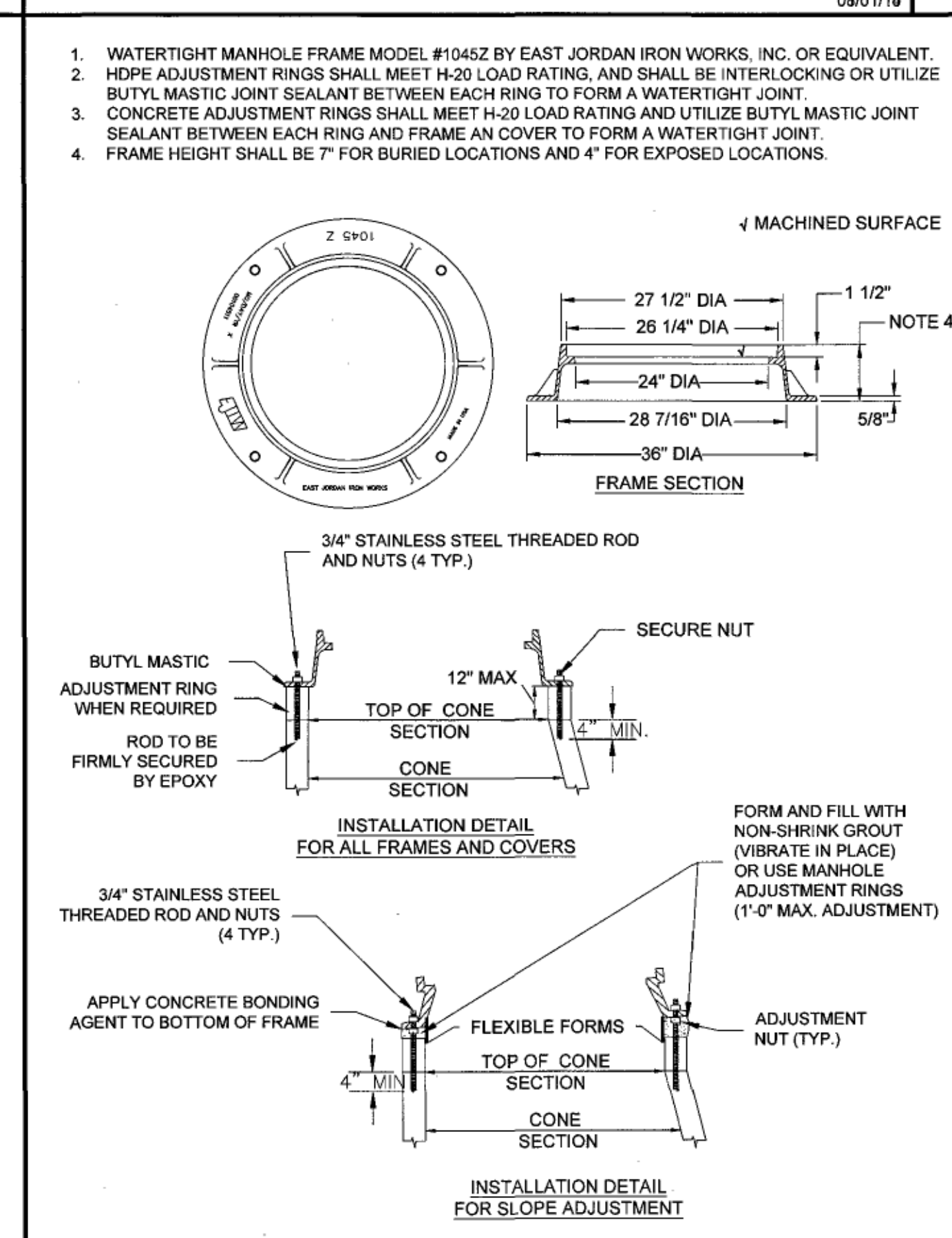
WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL  
CONCRETE ENCASED PIPE  
G-9



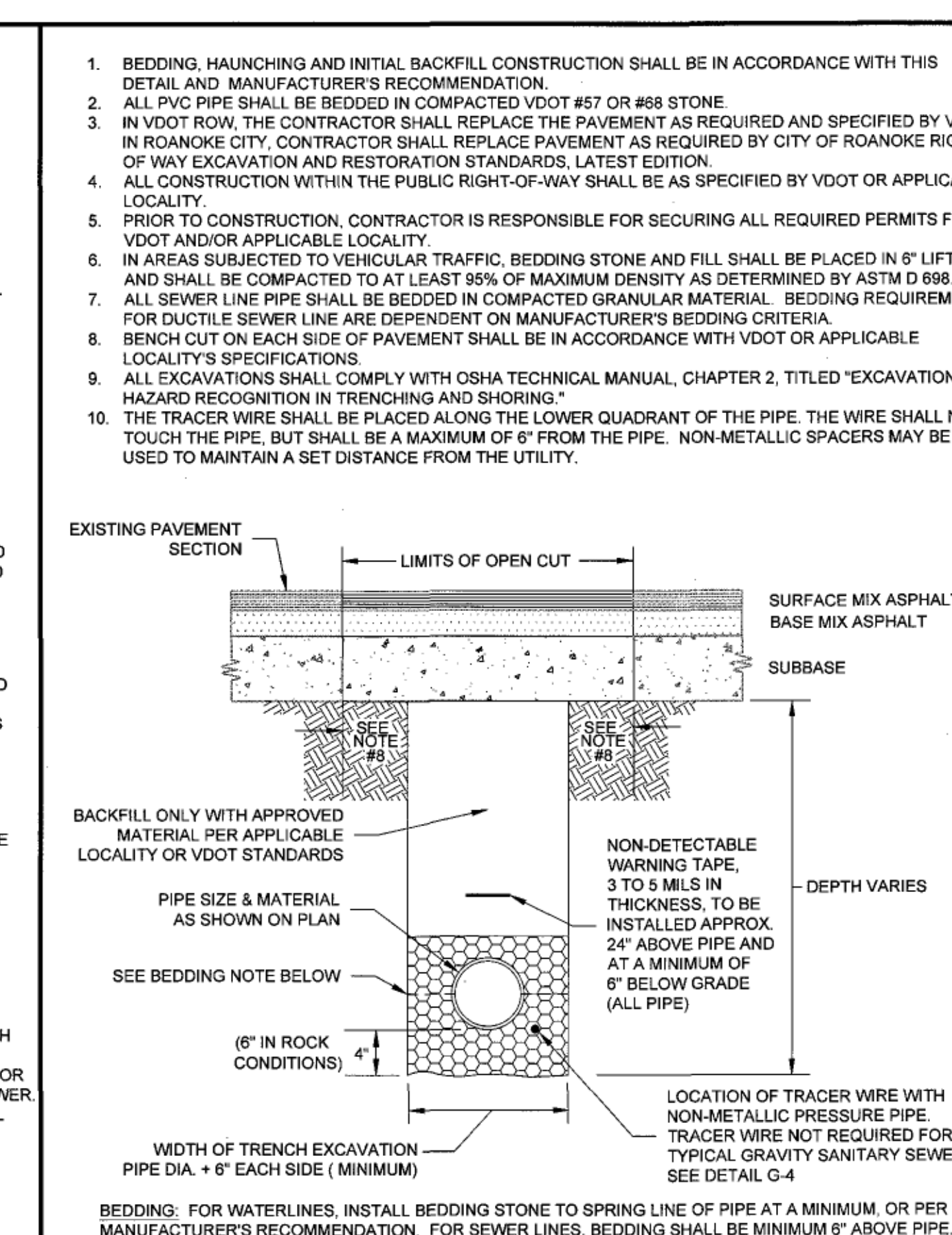
WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL  
INSIDE DROP MANHOLE  
S-3



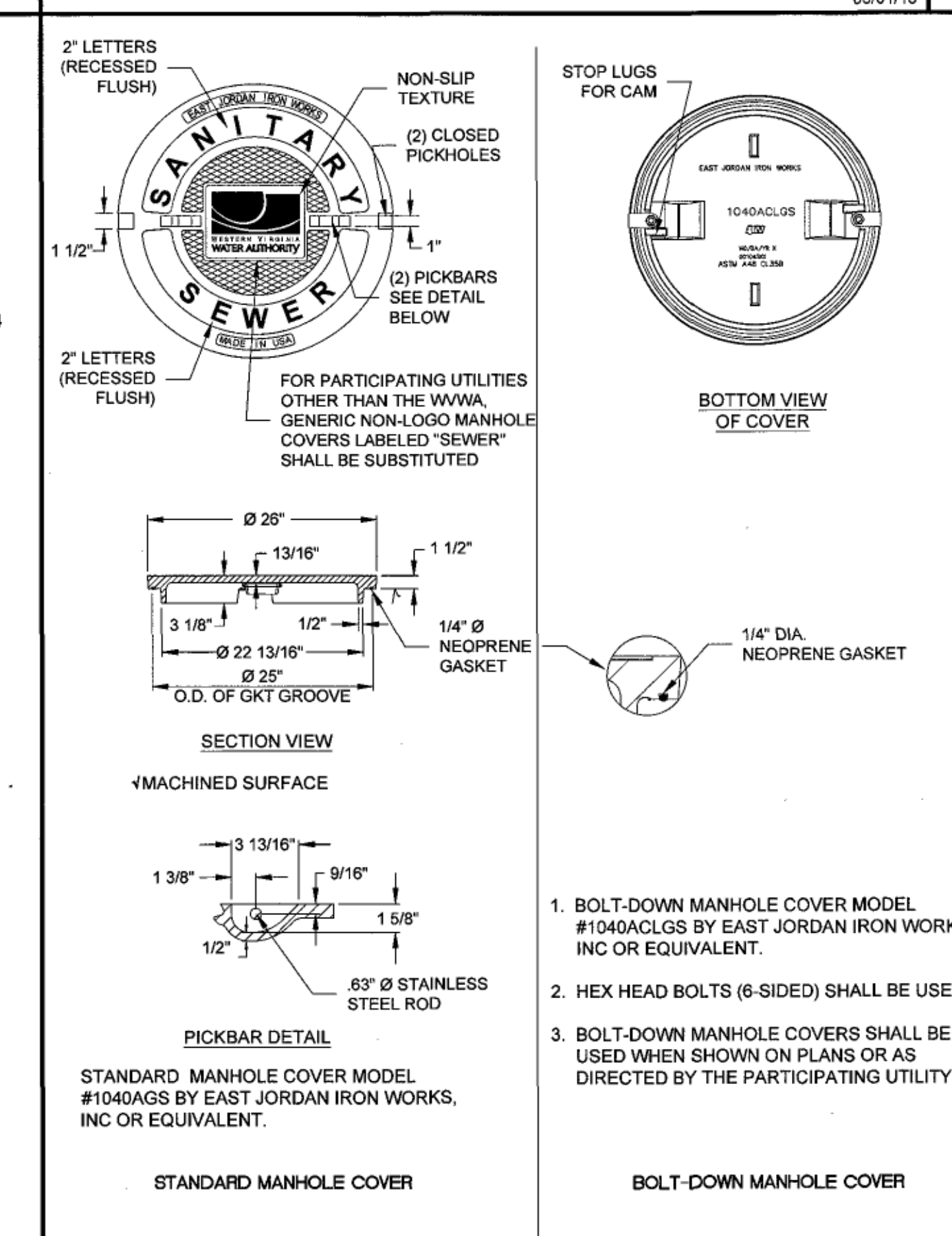
WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL  
BEDDING AND BACKFILL OUTSIDE OF PAVED AREAS  
G-11



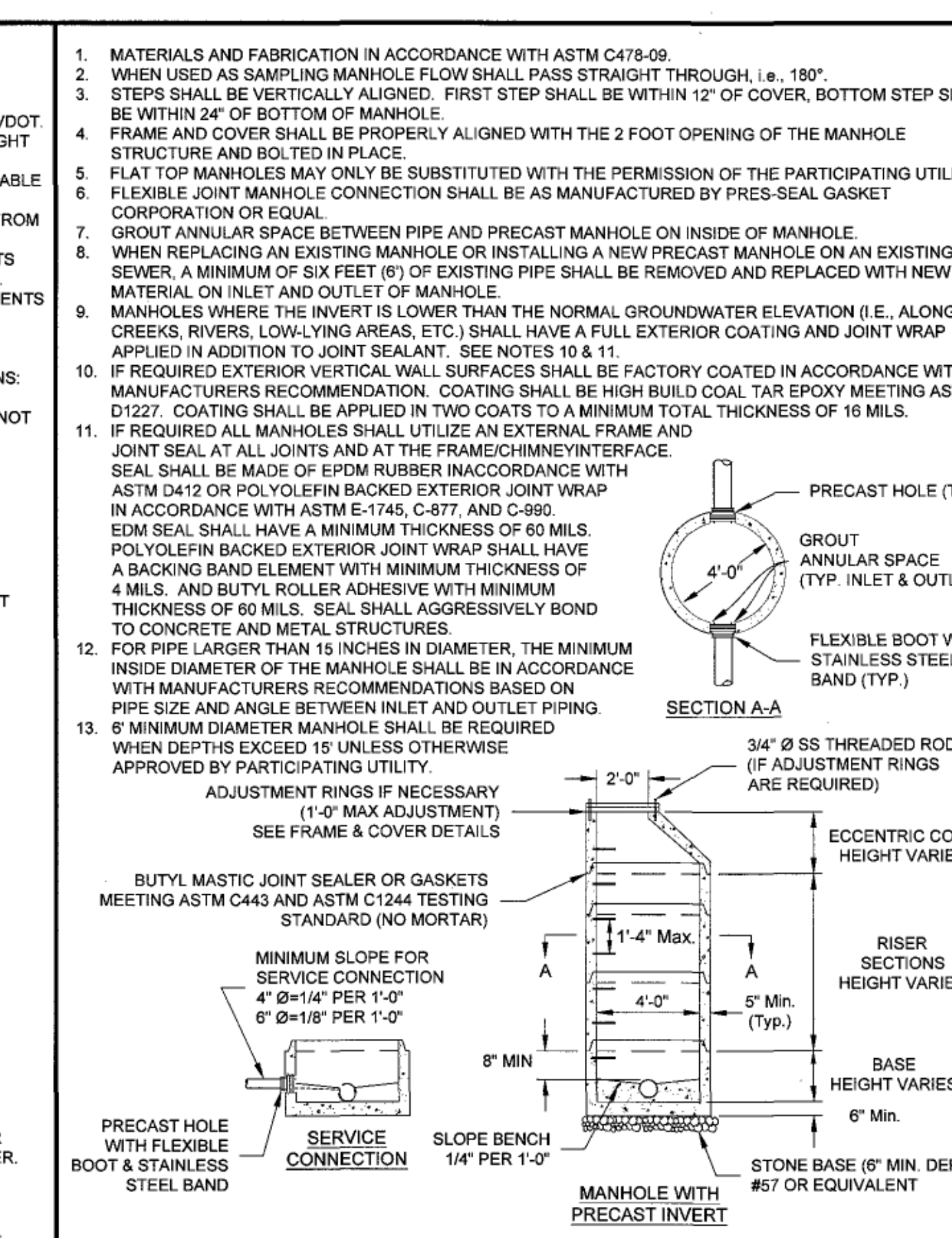
WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL  
WATERTIGHT MANHOLE FRAME  
S-4



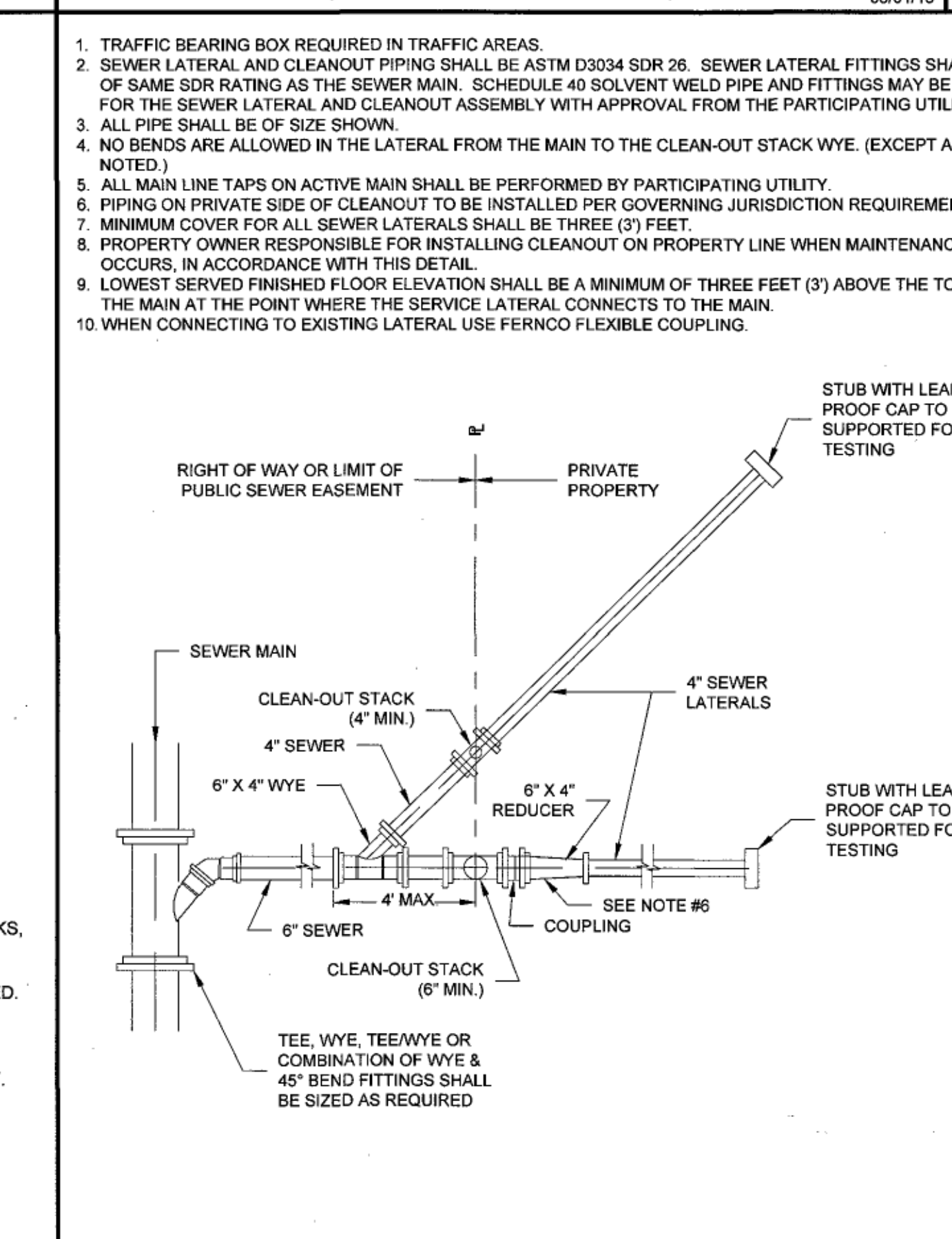
WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL  
BEDDING AND BACKFILL UNDER PAVEMENT AND IN RIGHT-OF-WAY  
G-12



WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL  
WATERTIGHT MANHOLE COVER  
S-5



WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL  
4" STANDARD MANHOLE FOR PIPE 15" OR SMALLER (FOR DEPTHS UP TO 15 FEET)  
S-1



WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL  
DOUBLE LATERAL COMBINED 6" BY TWO 4" LATERALS  
S-7

Drawing Copyright © 2018

**CHA**

3905 Innovation Drive, Suite 2100  
Blacksburg, VA 24060  
540.552.3548 • www.chacompanies.com

**WESTERN VIRGINIA WATER AUTHORITY**

**DOUGLAS B. HUDGINS**  
Lic. No. 034694  
11/5/17  
PROFESSIONAL ENGINEER

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTIVE UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN SEAL IN ANY WAY IF AN ADDITIONAL STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE WORDING "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

| No. | Submittal / Revision  | App'd. | By       | Date |
|-----|-----------------------|--------|----------|------|
| 1   | 50% SUBMITTAL         | DBH    | 11/26/16 |      |
| 2   | 100% CLIENT SUBMITTAL | DBH    | 10/23/17 |      |
| 3   | BID ISSUE             | DBH    | 11/15/17 |      |
| 6   | CONSTRUCTION ISSUE    | DBH    | 03/02/18 |      |

**CIVIL DETAILS**

Designed By: JRM  
Issue Date: 10-23-17

Drawn By: GLM  
Project No: 31237

Checked By: DBH  
Scale: AS NOTED

Drawing No.: **C-502**