

MATERIALS AND FABRICATION IN ACCORDANCE WITH ASTM C478-09.

9. SEE FRAME AND COVER DETAIL.
10. SEE DETAIL 8-01 FOR EXTERIOR COATING AND JOINT SEAL REQUIREMENTS.

RELINER BY DURAN INSIDE DROP BOWLS AND PIPE BRACKETS WILL BE ALLOWED.

GROUT ANNULAR SPACE BETWEEN PIPE AND PRECAST MANHOLE ON INSIDE OF MANHOLE.

SHALL BE WITHIN 24" OF BOTTOM OF MANHOLE.

OR LATERAL).

3/4" Ø SS THREADED ROD

(IF ADJUSTMENT RINGS

STEPS SHALL BE VERTICALLY ALIGNED. FIRST STEP SHALL BE WITHIN 12" OF COVER, BOTTOM STEP

THE FRAME AND COVER SHALL BE PROPERLY ALIGNED WITH THE 2 FOOT OPENING OF THE MANHOLE STRUCTURE AND BOLTED IN PLACE.

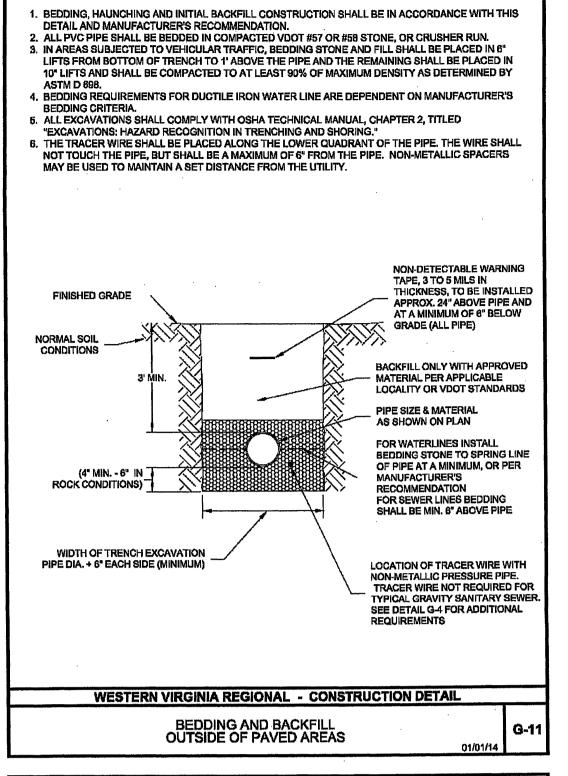
STEPS SHALL BE A MINIMUM OF 90 DEGREES FROM DROP & ALIGNED VERTICALLY.
INSIDE DROP ONLY ALLOWED WHEN DEPTH EXCEEDS 12' AND APPROVED BY PARTICIPATING UTILITY.

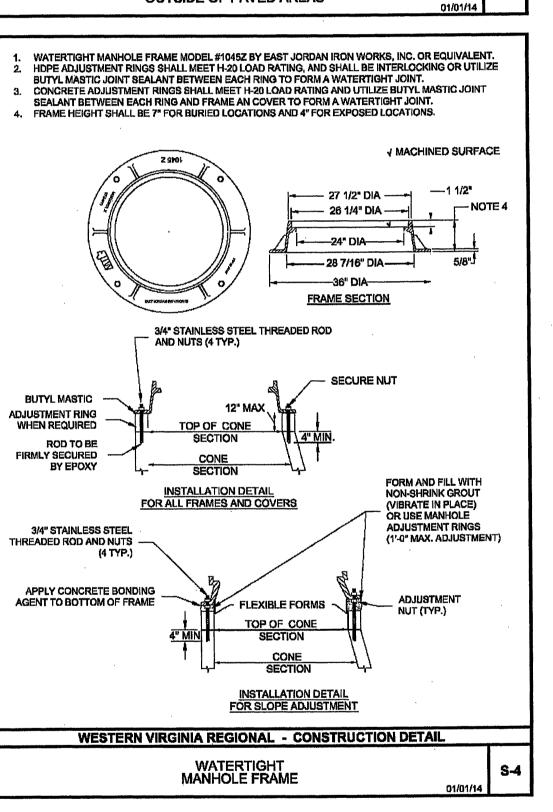
ADJUSTMENT RINGS

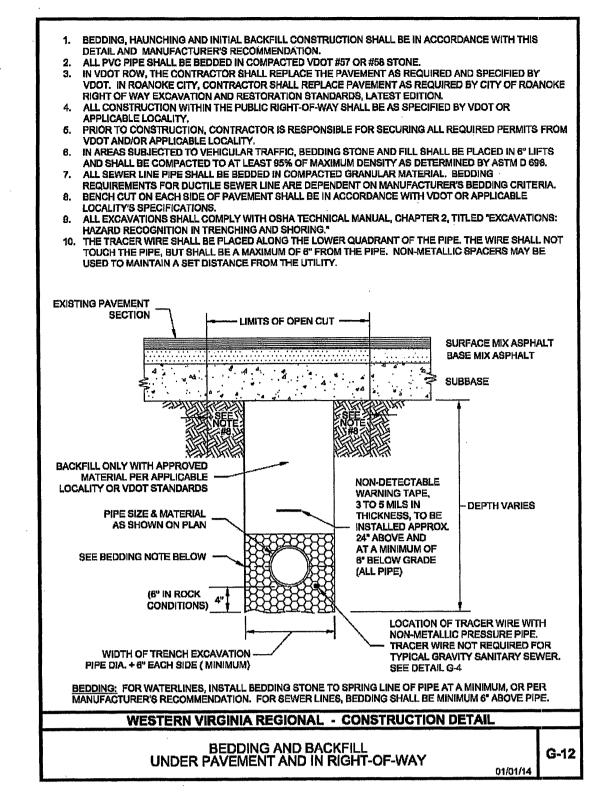
(1'-0" MAX. ADJUSTMENT)

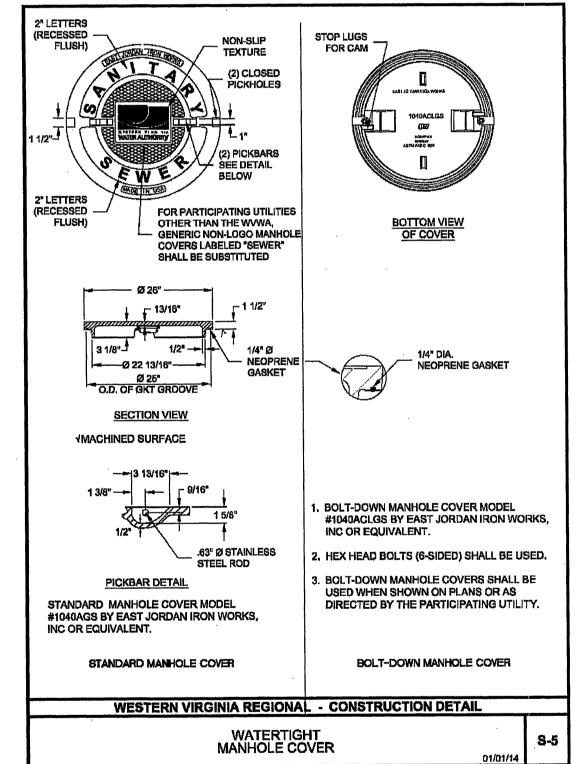
SEE FRAME & COVER DETAILS

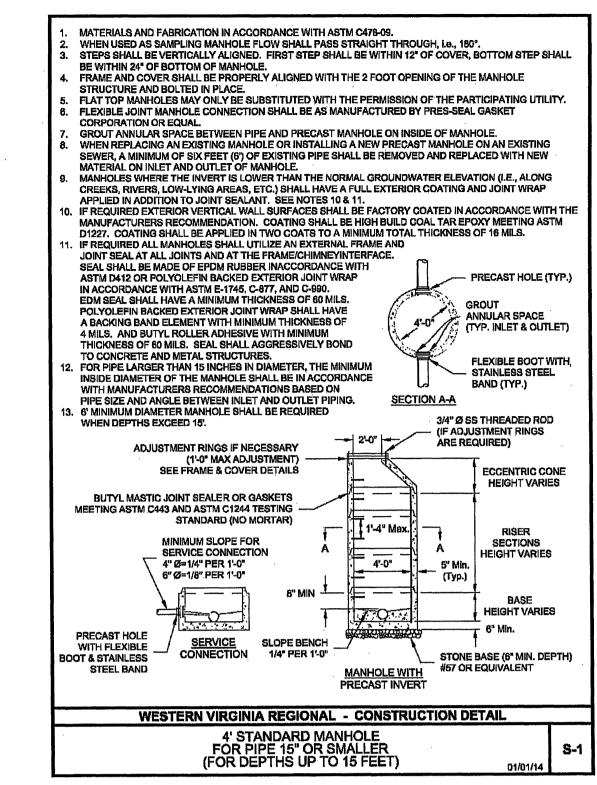
8. 6' MINIMUM DIAMETER MANHOLE REQUIRED FOR TWO OR MORE INSIDE DROF CONNECTIONS (MAIN LINE











LUMSDEN AS, ENGINEERS-SURV ROANOKE, VIRGII

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SCALE:

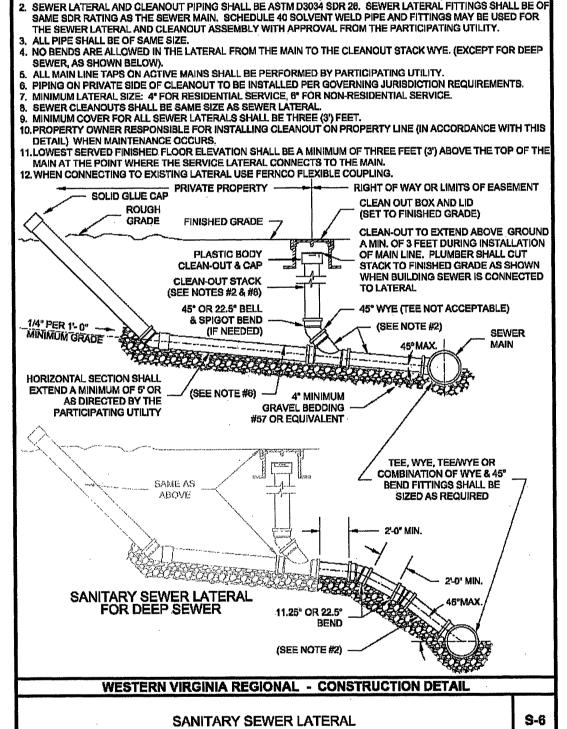
OMMISSION NO:

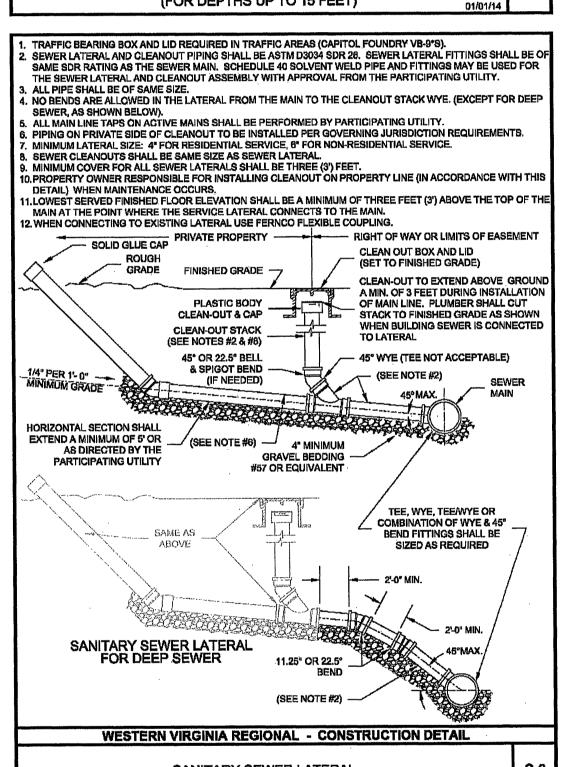
SHEET 8 OF 8

May 8, 201

1'' = 40'

13-166





2'-0" CONE ECCENTRIC BUTYL MASTIC JOINT SEALER OR GASKETS MEETING ASTM C443 AND ASTM C1244 TESTING STANDAR APPLIED AROUND PIPE & (NO MORTAR) MANHOLE OPENING (TYP.) ALLOW TO CURE BEFORE CONTINUOUS BUTYL MASTIC JOINT SEALER, ASTM C1619 -PLACING CONCRETE (SEE NOTES) PRECAST MANHOLE CONCRETE BASE FLEXIBLE BOOT PLAN VIEW WITH STAINLESS -1" STAINLESS STEEL BAND STEEL BAND SEE DETAIL S-1 @24" O.C. WITH 5/8" S.S. - 12" MIN. (TYP.) FOR CONTINUATION ANCHOR BOLTS PRECAST MANHOLE 4" MIN. CLEARANCE 6" MIN. STONE BASE **#57 OR EQUIVALENT** COLD JOINT (SEE NOTES) —— CONTINUOUS BUTYL MASTIC JOINT SEALER BEARING SURFACE WATERSTOP (SEE NOTES) STONE BASE (B" MIN. DEPTH) #57 OR EQUIVALENT USE 3" REBAR SUPPORTS SECTION A-A WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL S-3 S-2 INSIDE DROP MANHOLE STRADDLE MANHOLE