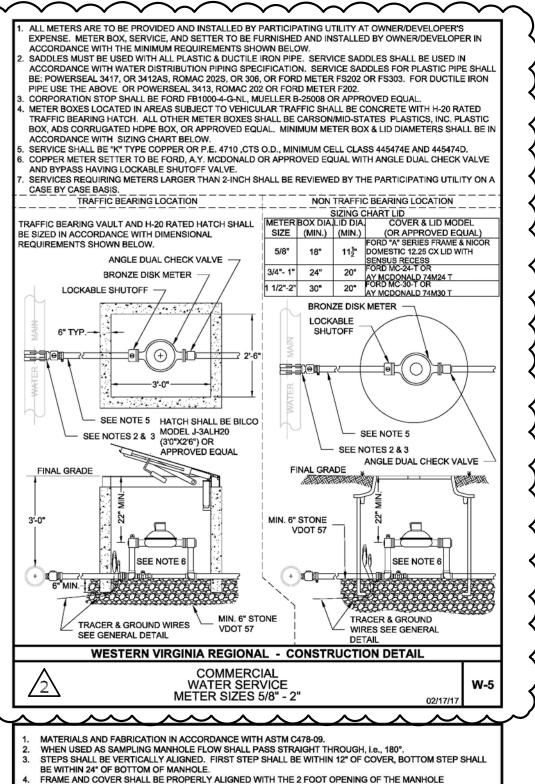


BEDDING, HAUNCHING AND INITIAL BACKFILL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THIS

DETAIL AND MANUFACTURER'S RECOMMENDATION.
ALL PVC PIPE SHALL BE BEDDED IN COMPACTED VDOT #57 OR #68 STONE.



FLAT TOP MANHOLES MAY ONLY BE SUBSTITUTED WITH THE PERMISSION OF THE PARTICIPATING UTILITY.

WHEN REPLACING AN EXISTING MANHOLE OR INSTALLING A NEW PRECAST MANHOLE ON AN EXISTING SEWER, A MINIMUM OF SIX FEET (6') OF EXISTING PIPE SHALL BE REMOVED AND REPLACED WITH NEW

MANHOLES WHERE THE INVERT IS LOWER THAN THE NORMAL GROUNDWATER ELEVATION (I.E., ALONG CREEKS, RIVERS, LOW-LYING AREAS, ETC.) SHALL HAVE A FULL EXTERIOR COATING AND JOINT WRAP APPLIED IN ADDITION TO JOINT SEALANT. SEE NOTES 10 & 11.

IF REQUIRED EXTERIOR VERTICAL WALL SURFACES SHALL BE FACTORY COATED IN ACCORDANCE WITH THE

PRECAST HOLE (TYP.)

ANNULAR SPACE

(TYP. INLET & OUTLET)

FLEXIBLE BOOT WITH

HEIGHT VARIES

**HEIGHT VARIES** 

STONE BASE (6" MIN. DEPTH

**#57 OR EQUIVALENT** 

STAINLESS STEEL

3/4" Ø SS THREADED ROD

IF ADJUSTMENT RINGS

ARE REQUIRED)

SECTION A-A

MANHOLE WITH PRECAST INVERT

WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

4' STANDARD MANHOLE FOR PIPE 15" OR SMALLER (FOR DEPTHS UP TO 15 FEET)

MANUFACTURERS RECOMMENDATION. COATING SHALL BE HIGH BUILD COAL TAR EPOXY MEETING ASTM

D1227. COATING SHALL BE APPLIED IN TWO COATS TO A MINIMUM TOTAL THICKNESS OF 16 MILS.

. IF REQUIRED ALL MANHOLES SHALL UTILIZE AN EXTERNAL FRAME AND

JOINT SEAL AT ALL JOINTS AND AT THE FRAME/CHIMNEYINTERFAC

SEAL SHALL BE MADE OF EPDM RUBBER INACCORDANCE WITH

ASTM D412 OR POLYOLEFIN BACKED EXTERIOR JOINT WRAP

IN ACCORDANCE WITH ASTM E-1745, C-877, AND C-990.

4 MILS. AND BUTYL ROLLER ADHESIVE WITH MINIMUM

TO CONCRETE AND METAL STRUCTURES.

EDM SEAL SHALL HAVE A MINIMUM THICKNESS OF 60 MILS.

POLYOLEFIN BACKED EXTERIOR JOINT WRAP SHALL HAVE

THICKNESS OF 60 MILS. SEAL SHALL AGGRESSIVELY BOND

PIPE SIZE AND ANGLE BETWEEN INLET AND OUTLET PIPING.

ADJUSTMENT RINGS IF NECESSARY

3. 6' MINIMUM DIAMETER MANHOLE SHALL BE REQUIRED

WHEN DEPTHS EXCEED 15' UNLESS OTHERWISH

BUTYL MASTIC JOINT SEALER OR GASKETS

4" Ø=1/4" PER 1'-0"

6" Ø=1/8" PER 1'-0"

SERVICE

MEETING ASTM C443 AND ASTM C1244 TESTING

WITH FLEXIBLE

SOOT & STAINLESS STEEL BAND

APPROVED BY PARTICIPATING UTILITY.

FOR PIPE LARGER THAN 15 INCHES IN DIAMETER, THE MINIMUM

INSIDE DIAMETER OF THE MANHOLE SHALL BE IN ACCORDANCE

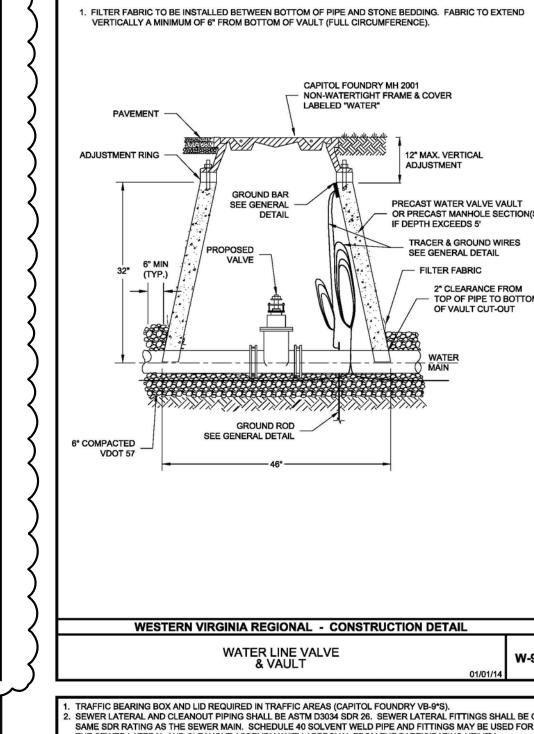
FLEXIBLE JOINT MANHOLE CONNECTION SHALL BE AS MANUFACTURED BY PRES-SEAL GASKET

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

STRUCTURE AND BOLTED IN PLACE.

MATERIAL ON INLET AND OUTLET OF MANHOLE.

CORPORATION OR FQUAL.



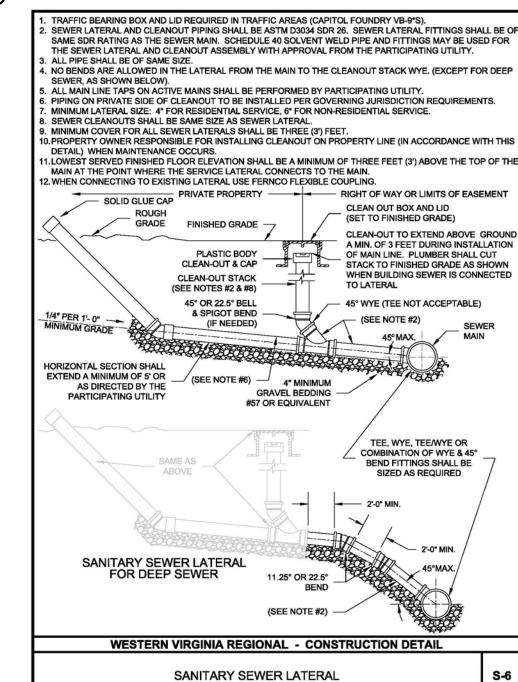
ates

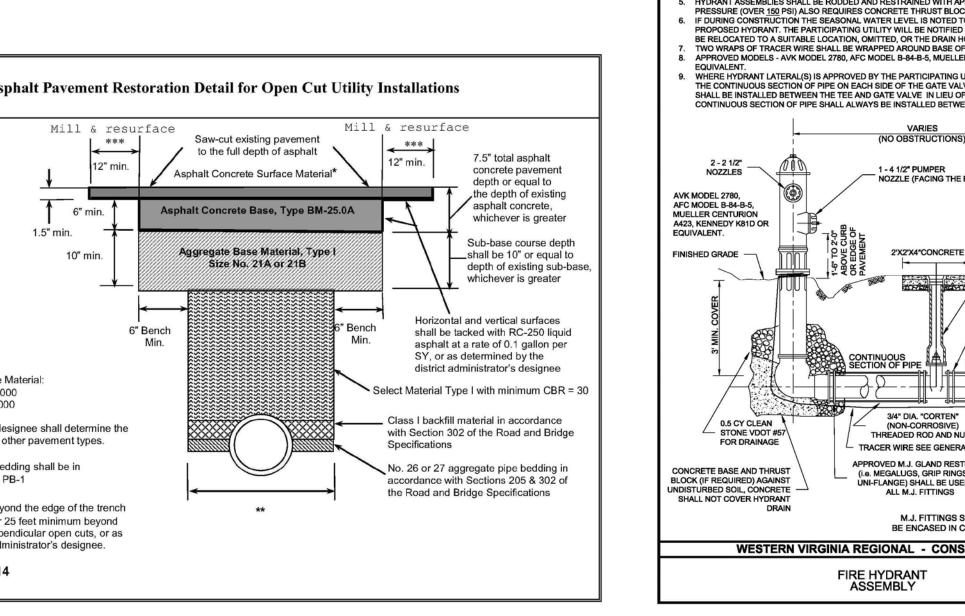
PSUM

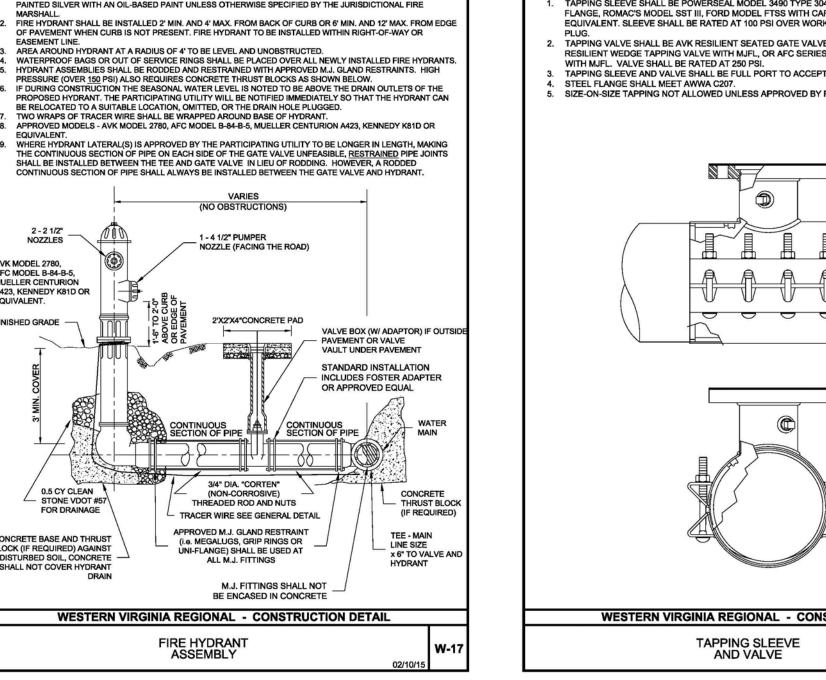
April 28, 202

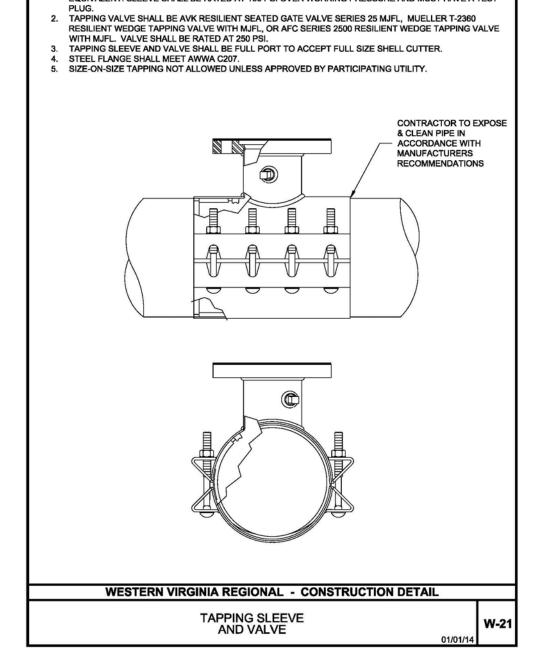
NO SCAL

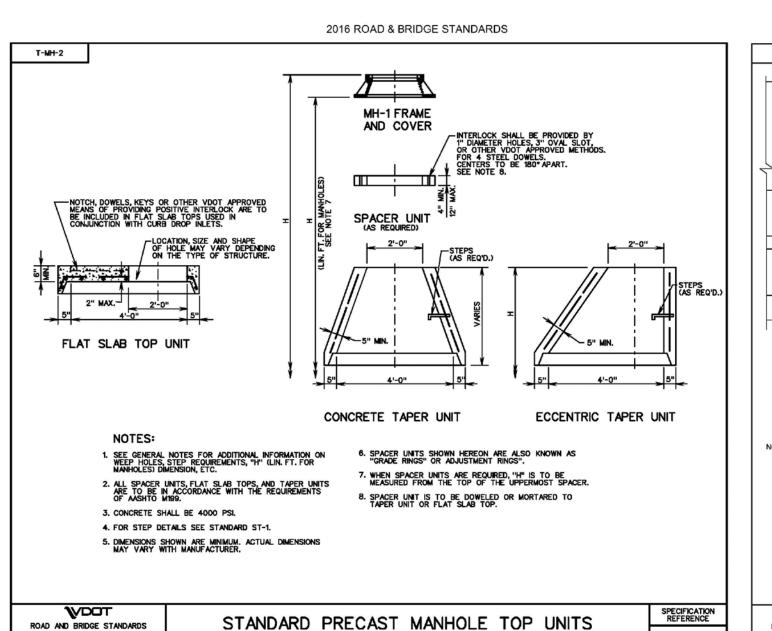
20-339











VIRGINIA DEPARTMENT OF TRANSPORTATION

2016 ROAD & BRIDGE STANDARDS

SHEET 1 OF 1 REVISION DATE

103.02

