BLOCK (TYP.)

TYP. CONC. THRUST-

UNDISTURBED _

SOIL (TYP.)

BLOCK MIN, 2" INTO

UNDISTURBED MAT. ON 3 SIDES

WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

THRUST BLOCK

REQUIREMENTS

18" MIN.-10"DIA. & LESS

BENDS AND TEES

FOR VERT, BEND DOWN IN EXCESS OF 11 1/4"

BEND, ANCHORAGE SHALL BE DESIGNED BY

FOR VERT, BEND UPWARD, BLOCKING TO BE

GLANDS & BOLTS SHALL BE PROTECTED FROM

ALL THRUST BLOCK & SUPPORT CONCRETE

FACTOR OF SAFETY = 1.5

SHALL BE 3000 PSI READY MIX CONCRETE.

CONC. WITH PLASTIC SHEETING WHEN POURING

PRESSURE = 200psi BEARING = 2000psf

SIMILAR TO THAT FOR HORZ. BEND.

ENGINEER

24" MIN.-12"DIA. & GREATER

PLAN AND

ELEVATION PLUGS

.16 #4 BARS EACH

WAY AS SHOWN

SECTION OF VERTICAL BEND

6. IF UNDER 100 PSI WORKING PRESSURE,

THRUST BLOCKS WITH "B" DIMENSION GREATER

THAN 30" SHALL HAVE THE RESTRAINED PIPE INSTALLED WITH A MINIMUM OF 4' OF COVER.

RESTRAINED JOINTS MUST BE USED. IF EQUAL

OR GREATER THAN 100 PSI, BOTH THRUST

WHEN THRUST BLOCK IS REQUIRED BUT NOT

FEASIBLE TO CONSTRUCT, THRUST COLLAR SHALL BE USED. SEE THRUST COLLAR DETAIL.

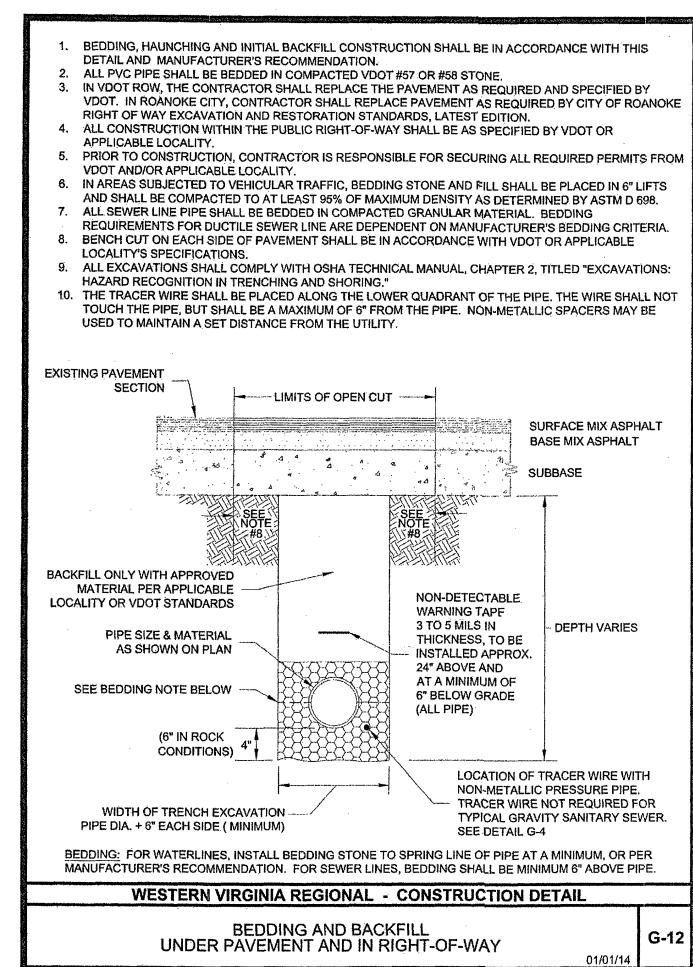
BLOCK AND RESTRAINED JOINTS ARE

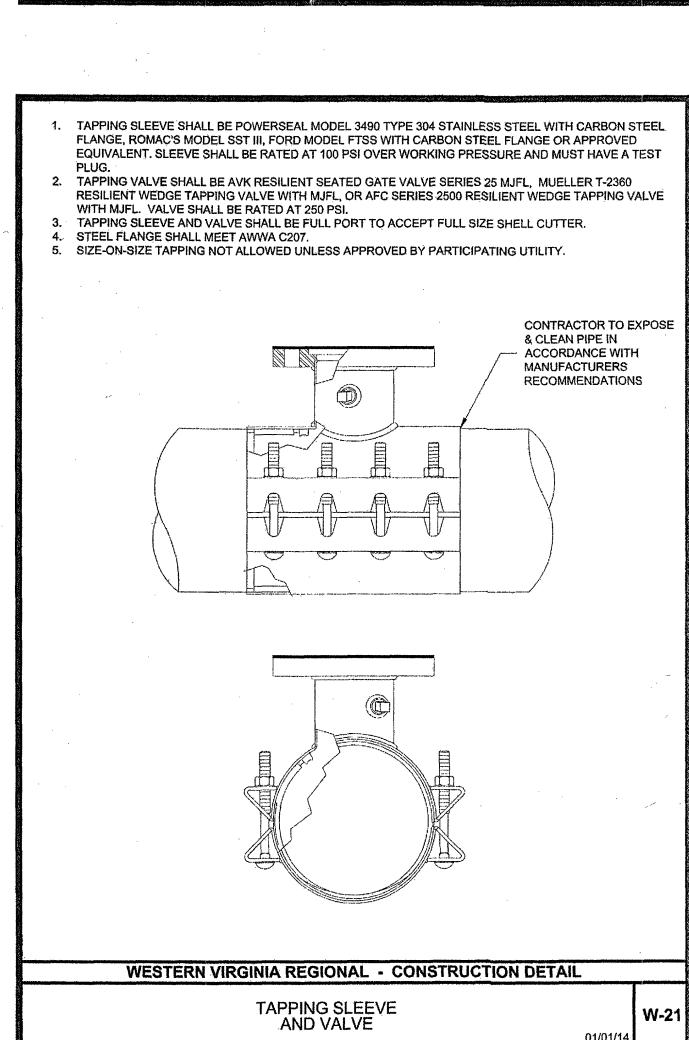
-TYP, M.J. BEND W

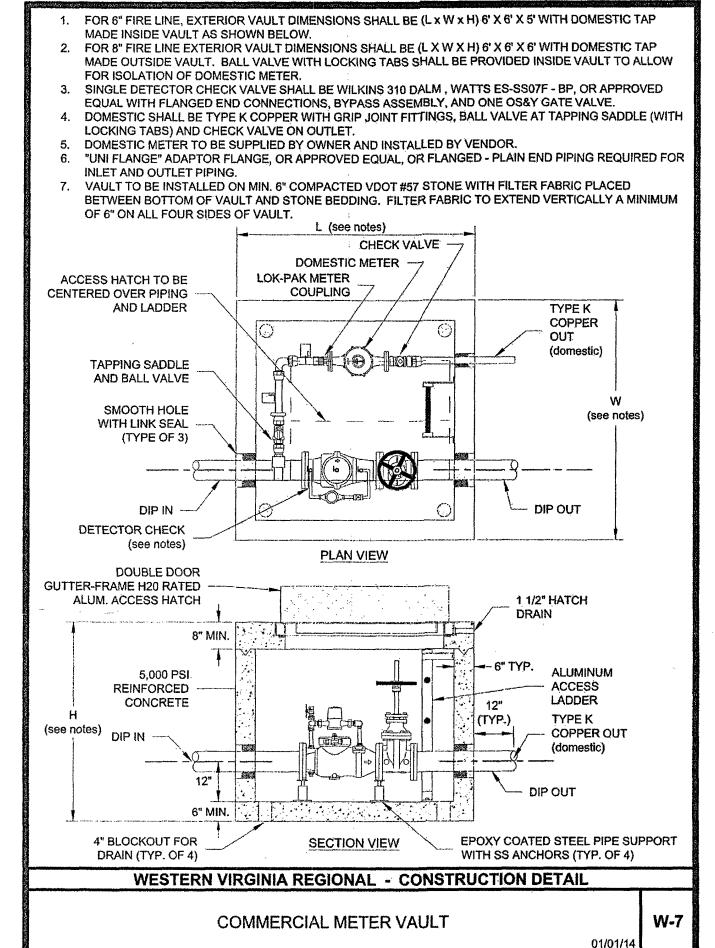
BOTTOM

W-18

RESTRAINER GLANDS

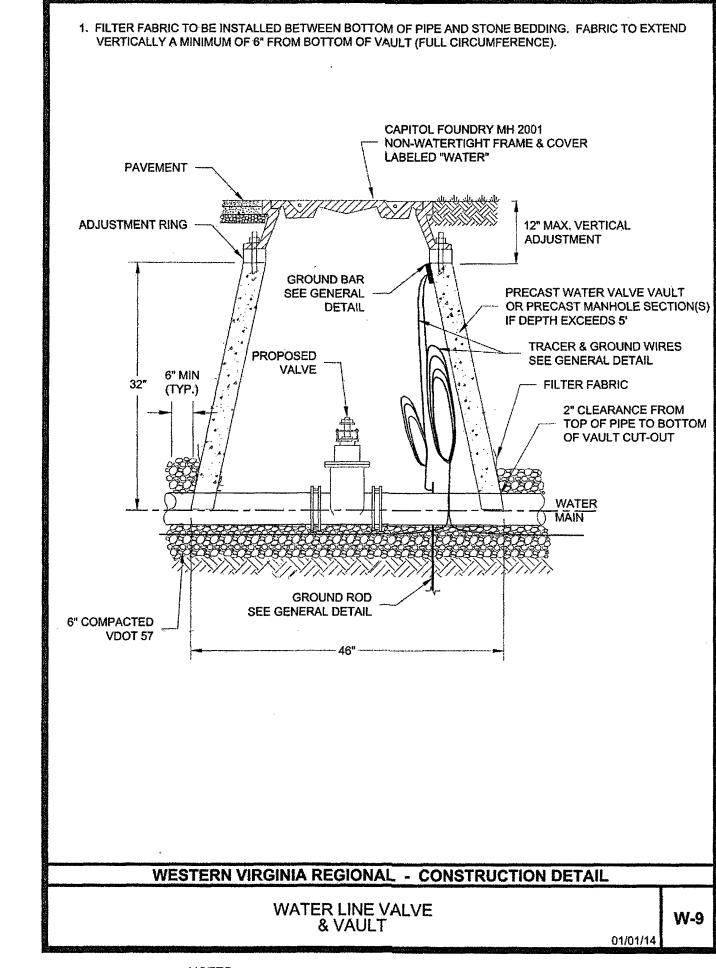


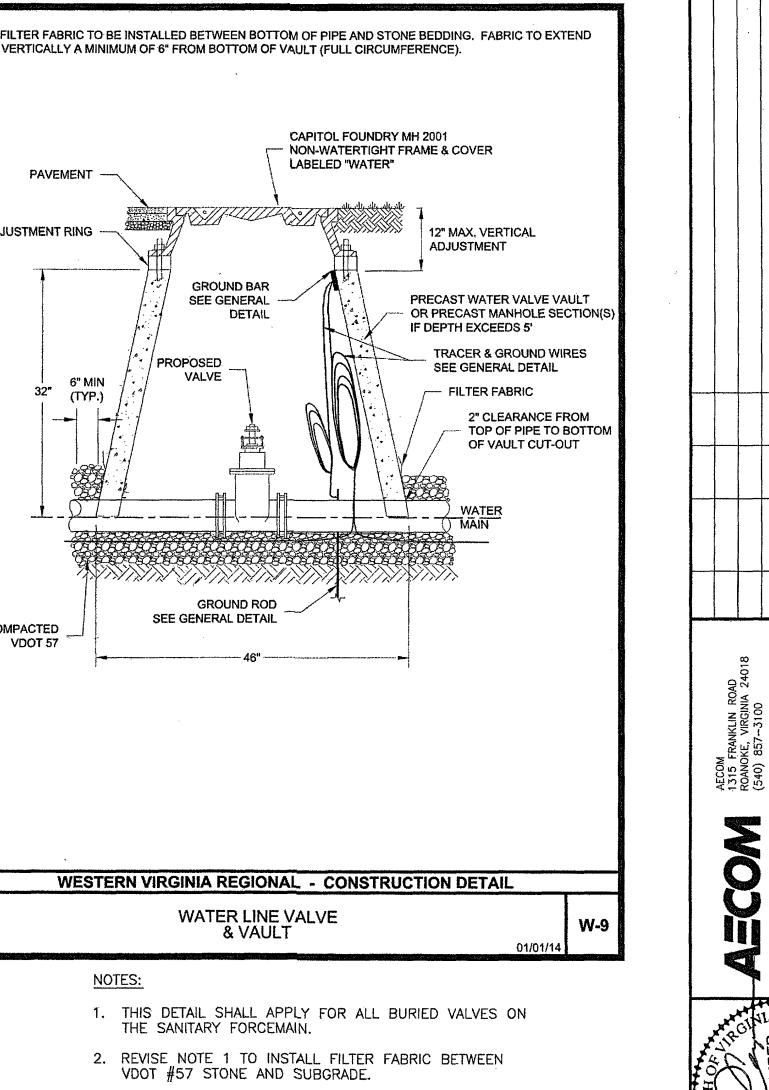




- 1. THIS DETAIL IS A STANDARD DETAIL FOR THE WESTERN VIRGINIA WATER AUTHORITY. PIPING INSIDE VAULT AS INDICATED IN THIS DETAIL SHALL BE REPLACED WITH PIPING AND MAGNETIC FLOW METER AS INDICATED ON SHEET CS501.
- 2. "UNI-FLANGE" ADAPTER FLANGES SHALL NOT BE PROVIDED. PROVIDE RESTRAINED FLANGE COUPLING ADAPTERS AS INDICATED ON SHEET CS501.
- 3. REVISE NOTE 7 TO INSTALL FILTER FABRIC BETWEEN

VDOT #57 STONE AND SUBGRADE.





STATION

Ŏ **CLEARBR**(0 RENOVATION

PROJECT NO: 60153682.0001

CAD DWG FILE: _CS502 DESIGNED BY: IPC DRAWN BY; MEW DEPT CHECK: WCH PROJ CHECK: DMH DATE: SEPT. 17, 2014 SCALE: NONE