

TRAFFIC BEARING BOX AND LID REQUIRED IN TRAFFIC AREAS (CAPITOL FOUNDRY VB-9\*S).

ALL MAIN LINE TAPS ON ACTIVE MAINS SHALL BE PERFORMED BY PARTICIPATING UTILITY.

MINIMUM LATERAL SIZE: 4" FOR RESIDENTIAL SERVICE, 6" FOR NON-RESIDENTIAL SERVICE.

SEWER CLEANOUTS SHALL BE SAME SIZE AS SEWER LATERAL.

MINIMUM COVER FOR ALL SEWER LATERALS SHALL BE THREE (3') FEET.

GRADE FINISHED GRADE -

MAIN AT THE POINT WHERE THE SERVICE LATERAL CONNECTS TO THE MAIN. 2. WHEN CONNECTING TO EXISTING LATERAL USE FERNCO FLEXIBLE COUPLING.

PLASTIC BODY

CLEAN-OUT & CAP

CLEAN-OUT STACK

45° OR 22.5° BELL

& SPIGOT BEND ----

(IF NEEDED)

(SEE NOTE #6) 4" MINIMUM

GRAVEL BEDDING

11.25° OR 22.5°

(SEE NOTE #2)

WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

SANITARY SEWER LATERAL

#57 OR EQUIVALENT

(SEE NOTES #2 & #8)

ALL PIPE SHALL BE OF SAME SIZE.

DETAIL) WHEN MAINTENANCE OCCURS.

SOLID GLUE CAP

ROUGH

SEWER, AS SHOWN BELOW).

1/4" PER 1'-0"

MINIMUM GRADE

HORIZONTAL SECTION SHALL

EXTEND A MINIMUM OF 5' OR

AS DIRECTED BY THE

SANITARY SEWER LATERAL

FOR DEEP SEWER

PARTICIPATING UTILITY

SEWER LATERAL AND CLEANOUT PIPING SHALL BE ASTM D3034 SDR 26. SEWER LATERAL FITTINGS SHALL BE OF

. NO BENDS ARE ALLOWED IN THE LATERAL FROM THE MAIN TO THE CLEANOUT STACK WYE. (EXCEPT FOR DEEP

). PROPERTY OWNER RESPONSIBLE FOR INSTALLING CLEANOUT ON PROPERTY LINE (IN ACCORDANCE WITH THIS

1.LOWEST SERVED FINISHED FLOOR ELEVATION SHALL BE A MINIMUM OF THREE FEET (3') ABOVE THE TOP OF THE

PRIVATE PROPERTY RIGHT OF WAY OR LIMITS OF EASEMENT

CLEAN OUT BOX AND LID

TO LATERAL

(SET TO FINISHED GRADE)

CLEAN-OUT TO EXTEND ABOVE GROUND

A MIN. OF 3 FEET DURING INSTALLATION

OF MAIN LINE. PLUMBER SHALL CUT

STACK TO FINISHED GRADE AS SHOWN

- 45° WYE (TEE NOT ACCEPTABLE)

TEE, WYE, TEE/WYE OR

COMBINATION OF WYE & 45°

BEND FITTINGS SHALL BE

SIZED AS REQUIRED

45° MAX.

WHEN BUILDING SEWER IS CONNECTED

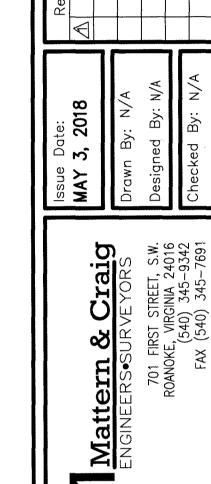
MAIN

PIPING ON PRIVATE SIDE OF CLEANOUT TO BE INSTALLED PER GOVERNING JURISDICTION REQUIREMENTS.

SAME SDR RATING AS THE SEWER MAIN. SCHEDULE 40 SOLVENT WELD PIPE AND FITTINGS MAY BE USED FOR

THE SEWER LATERAL AND CLEANOUT ASSEMBLY WITH APPROVAL FROM THE PARTICIPATING UTILITY.





heet No.

N/A orizontal Scale: N/A

FACTOR OF SAFETY = 1.5 
 PIPE
 PIPE
 90°
 45°
 22½°
 11½°
 VALVE/
 TEE

 SIZE
 MAT'L
 BEND
 BEND
 BEND
 BEND
 BEND
 (NOTE 2)
 (NOTE 3)
REDUCER 45° 22½° 11½° (NOTE 4) VERT. VERT. VERT. 10" D.I. 43' 21' 9' 5' 77' 53' 26' 32' 16' 8' 12" D.I. 51' 21' 10' 5' 91' 67' 27' 38' 18' 9' 6" PVC 29' 21' 6' 3' 78' 25' 40' 32' 16' 8' 8" PVC 37' 21' 8' 4' 102' 49' 43' 42' 21' 10" PVC 44' 21' 9' 5' 122' 68' 41' 51' 25' 12' 12" PVC 51' 21' 11' 6' 143' 89' 42' 60' 29' 15' 1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING AND DOCUMENTED BY THE INSPECTOR FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. RESTRAINED LENGTH SHOWN REFERS TO ANY DESIGNED OR POTENTIAL LINE STOP, INCLUDING ALL GATE VALVES. 3. RESTRAINED LENGTH SHOWN REFERS TO THE BRANCH LINE ONLY. THE CONTINUOUS PIPE LENGTH OF THE MAIN RUN SHALL BE A MINIMUM OF 10' ON EACH SIDE OF THE TEE. 4. RESTRAINED LENGTH SHOWN IS BASED ON REDUCING PIPE DIAMETER TO ONE SIZE SMALLER THAN PIPE LISTED (ANY OTHER DIAMETER REDUCTION WILL REQUIRE ADDITIONAL CALCULATIONS BEFORE INSTALLATION), RESTRAINED LENGTH SHOWN IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 5. 12" AND SMALLER DIAMETER: IF UNDER 150 PSI WORKING PRESSURE, RESTRAINED JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 150 PSI WORKING PRESSURE, BOTH THRUST BLOCK(S) AND RESTRAINED JOINT(S) SHALL BE USED. LARGER THAN 12" DIAMETER: IF UNDER 100 PSI WORKING PRESSURE, RESTRAINED JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK(S) AND RESTRAINED JOINT(S) SHALL BE USED (UNLESS OTHERWISE APPROVED BY THE PARTICIPATING UTILITY). 6. FOR RESTRAINED JOINT PIPING REQUIREMENTS AT FITTING R.J. PVC AND R.J. DIP MAY BE USED INTERCHANGEABLY WITH APPROVAL FROM PARTICIPATING UTILITY. CONTRACTOR MUST PLAN ACCORDINGLY FOR THE DIFFERENCE IN PVC AND DIP BELL AND SPIGOT DIMENSIONS.

WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

W-19

MINIMUM THRUST RESTRAINT

OF PIPE JOINTS **DESIGN LENGTHS** 

