TABLE 3.32-C SITE SPECIFIC SEEDING MIXTURES FOR APPALACHIAN/MOUNTAIN AREA Total Lbs. Minimum Care Lawn Per Acre 200-250 lbs. - Commercial or Residential - Kentucky 31 or Turf-Type Tall Fescue 90-100% - Improved Perennial Ryegrass * 0-10% Kentucky Bluegrass 0-10% High-Maintenance Lawn Minimum of three (3) up to five (5) varieties of bluegrass from approved list for use in Virginia. 125 lbs. General Slope (3:1 or less) - Kentucky 31 Fescue 128 lbs. - Red Top Grass 2 lbs. - Seasonal Nurse Crop ** 20 lbs. 150 lbs. Low-Maintenance Slope (Steeper than 3:1) - Kentucky 31 Fescue 108 lbs Red Top Grass 2 lbs. - Seasonal Nurse Crop ** 20 lbs. - Crownvetch *** 20 lbs.

* Perennial Ryegrass will germinate faster and at lower soil temperatures than

** Use seasonal nurse crop in accordance with seeding dates as stated below:

*** If Flatpea is used, increase to 30 lbs./acre. All legume seed must be properly

inoculated. Weeping Lovegrass may also be included in any slope or low-

maintenance mixture during warmer seeding periods; add 10-20 lbs/acre in mixes.

March, April through May 15th Annual Rye

May 16th through August 15th Foxtail Millet

August 16th through September, October Annual Rye

November through February Winter Rye

fescue, thereby providing cover and erosion resistance for seedbed.

<u>SEED</u>					
APPLICATION DATES	SPECIES	APPLICATION RATES			
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (Iolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 -100 (lbs/acre)			
Feb. 16 - Apr. 30	Annual Ryegrass (Iolium multi-florum)	60 - 100 (lbs/acre)			
May 1 - Aug. 31	German Millet	50 (lbs/acre)			

TABLE 3.31-B

(Revised June 2003)

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• Apply 10-10-10 fertilizer at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.) • Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

150 lbs

1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site. 2 - Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.

3 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs

	LIMITS OF OPE	N CUT	SURFACE MIX ASPHALT BASE MIX ASPHALT
	4 4	4 44 4 4	SUBBASE
DACKELL ON VANITA APPROVED	SEE V NOTE #8	SEE NOTE	
BACKFILL ONLY WITH APPROVED MATERIAL PER APPLICABLE LOCALITY OR VDOT STANDARDS PIPE SIZE & MATERIAL AS SHOWN ON PLAN		NON-DETECTABLE WARNING TAPE, 3 TO 5 MILS IN THICKNESS, TO BE INSTALLED APPRO 24" ABOVE PIPE AN	X .
SEE BEDDING NOTE BELOW (6" IN ROCK CONDITIONS)	4"	AT A MINIMUM OF 6" BELOW GRADE (ALL PIPE)	
WIDTH OF TRENCH EXC PIPE DIA. + 6" EACH SIDE (N	-	NON-METAL TRACER WI	LIC PRESSURE PIPE. RE NOT REQUIRED FOR AVITY SANITARY SEWER.
<u>BEDDING:</u> FOR WATERLINES, MANUFACTURER'S RECOMME			
WESTERN VI	RGINIA REGIONA	AL - CONSTRUCTION	DETAIL
	BEDDING AND E AVEMENT AND	BACKFILL IN RIGHT-OF-WAY	08/01/15

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

. IN VDOT ROW, THE CONTRACTOR SHALL REPLACE THE PAVEMENT AS REQUIRED AND SPECIFIED BY

4. ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE AS SPECIFIED BY VDOT OR

ALL SEWER LINE PIPE SHALL BE BEDDED IN COMPACTED GRANULAR MATERIAL. BEDDING

VDOT. IN ROANOKE CITY, CONTRACTOR SHALL REPLACE PAVEMENT AS REQUIRED BY CITY OF ROANOKE

PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS FROM

. IN AREAS SUBJECTED TO VEHICULAR TRAFFIC, BEDDING STONE AND FILL SHALL BE PLACED IN 6" LIFTS

AND SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 698.

REQUIREMENTS FOR DUCTILE SEWER LINE ARE DEPENDENT ON MANUFACTURER'S BEDDING CRITERIA.

8. BENCH CUT ON EACH SIDE OF PAVEMENT SHALL BE IN ACCORDANCE WITH VDOT OR APPLICABLE

9. ALL EXCAVATIONS SHALL COMPLY WITH OSHA TECHNICAL MANUAL, CHAPTER 2, TITLED "EXCAVATIONS:

10. THE TRACER WIRE SHALL BE PLACED ALONG THE LOWER QUADRANT OF THE PIPE. THE WIRE SHALL NOT

TOUCH THE PIPE, BUT SHALL BE A MAXIMUM OF 6" FROM THE PIPE. NON-METALLIC SPACERS MAY BE

DETAIL AND MANUFACTURER'S RECOMMENDATION.

HAZARD RECOGNITION IN TRENCHING AND SHORING."

USED TO MAINTAIN A SET DISTANCE FROM THE UTILITY.

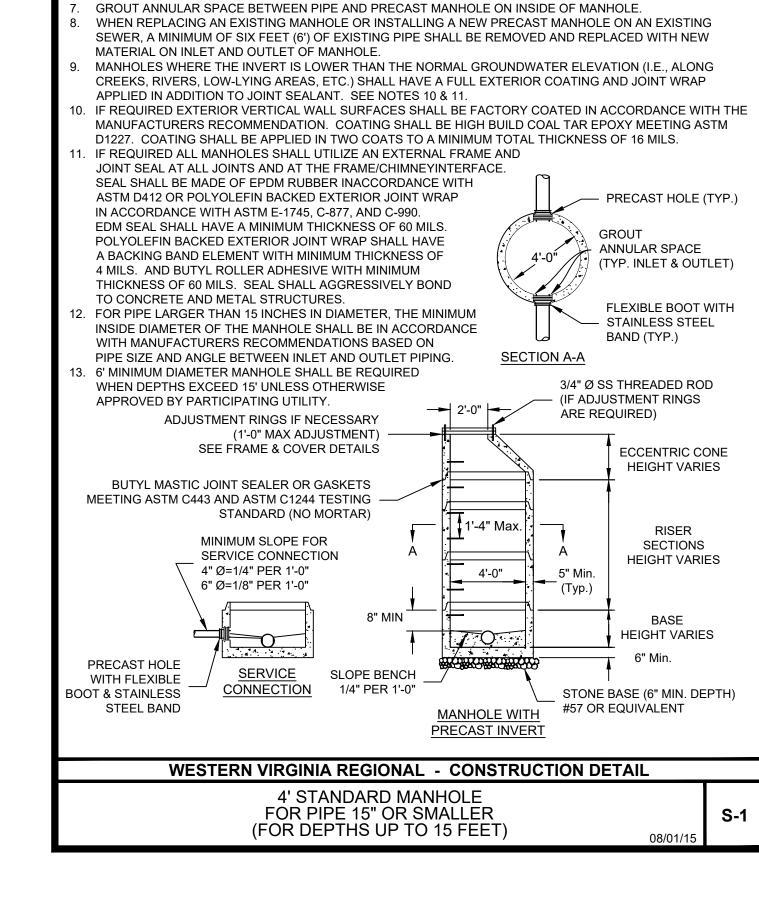
APPLICABLE LOCALITY.

LOCALITY'S SPECIFICATIONS.

VDOT AND/OR APPLICABLE LOCALITY.

. ALL PVC PIPE SHALL BE BEDDED IN COMPACTED VDOT #57 OR #68 STONE.

RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS, LATEST EDITION.



MATERIALS AND FABRICATION IN ACCORDANCE WITH ASTM C478-09.

BE WITHIN 24" OF BOTTOM OF MANHOLE.

STRUCTURE AND BOLTED IN PLACE.

CORPORATION OR EQUAL.

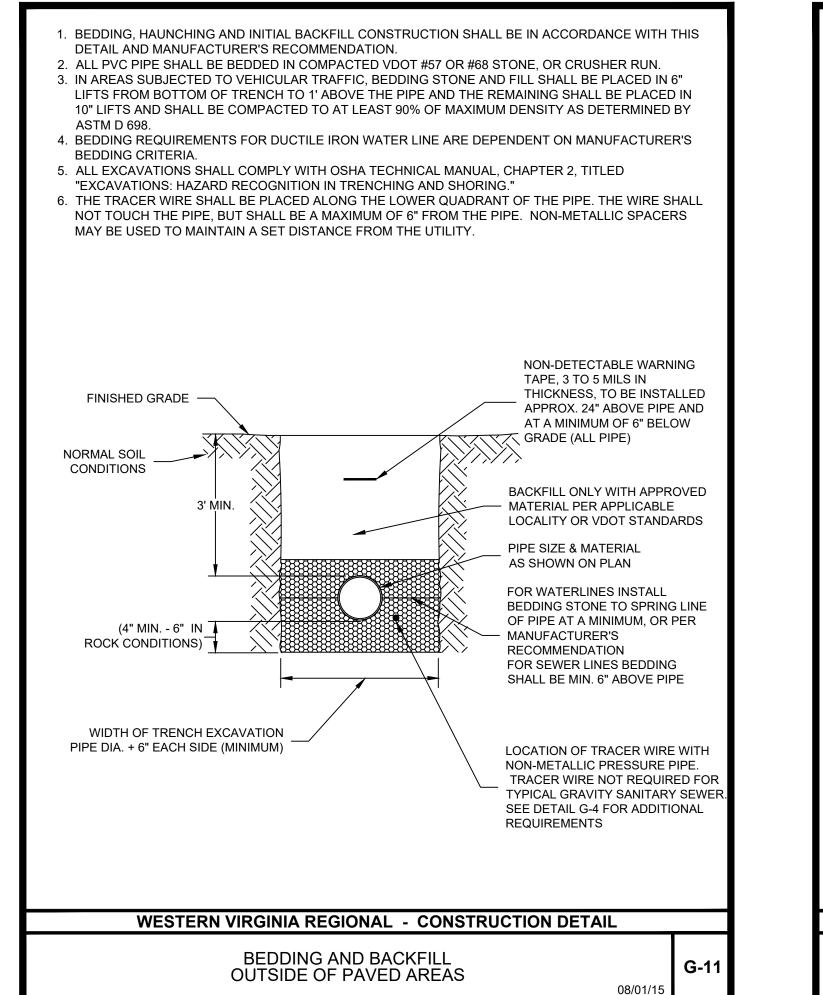
WHEN USED AS SAMPLING MANHOLE FLOW SHALL PASS STRAIGHT THROUGH, i.e., 180°.

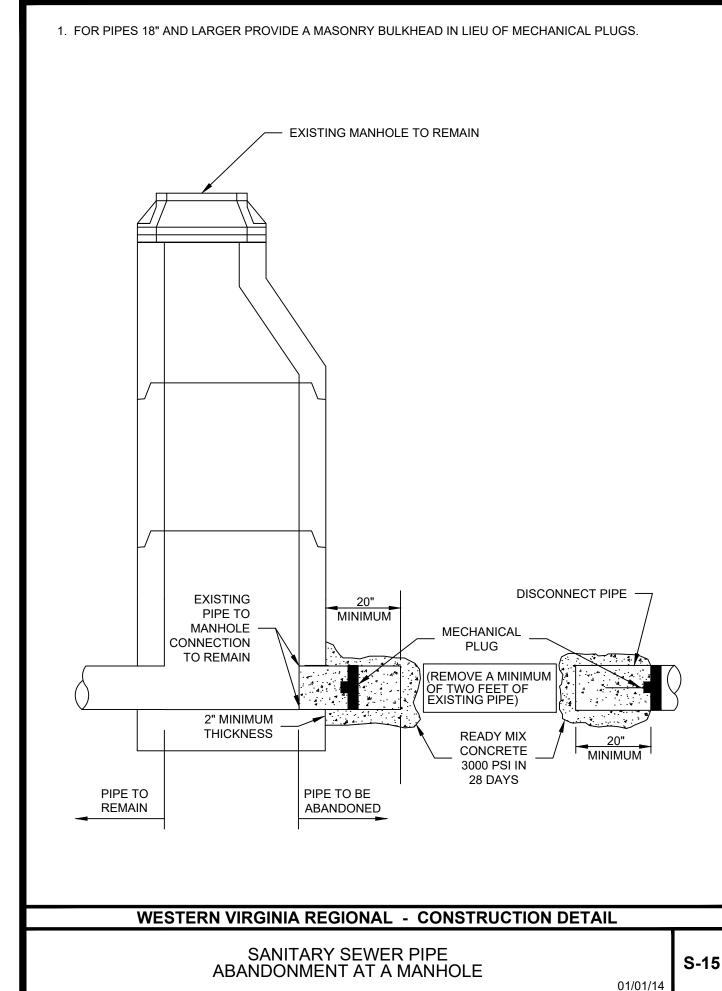
FRAME AND COVER SHALL BE PROPERLY ALIGNED WITH THE 2 FOOT OPENING OF THE MANHOLE

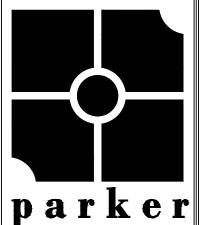
FLEXIBLE JOINT MANHOLE CONNECTION SHALL BE AS MANUFACTURED BY PRES-SEAL GASKET

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

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







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Q 9 0 **REVISIONS:**

DESIGNED BY: JLK DRAWN BY: JLK **CHECKED BY: SLR**

> DATE: 14 May 2019

SHEET TITLE: SITE & ESC DETAILS SCALE:

> N/A SHEET NO.

