

317 BROOK PARK PLACE, FOREST, VIRGINIA 24551
PHONE: 434-525-5885 FAX: 434-525-5886
EMAIL: info@jockins-worison.com

17 W. NELSON STREET LEXINGTON, VIRGINIA 24450
PHONE: 540-454-0001 FAX: 540-454-5009
EMAIL: PHOEBERKINS@RRBISON.COM



JOB: BOTETOURT
CONVENIENCE CENTER
AND TRANSFER STATION
BOTETOURT COUNTY, VIRGINIA

CLIENT:
COUNTY WASTE SOUTHWEST VIRGINIA, LLC
CO: DELBERT BEASLEY

Source: V.A. DSWC

*USE SEASONAL NURSE CROP IN ACCORDANCE WITH SEEDING DATES AS STATED BELOW

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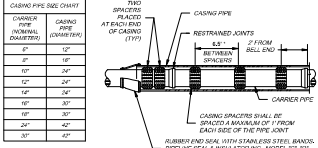
**SUBSTITUTE SERICEA LEPEDAZEA PRO CROWNWEED EAST OF FARMVILLE, VA. (MAY THROUGH SEPTEMBER USE HULLED SERICEA, ALL OTHER PERIODS, USE UNHULLED SERICEA). IF FLAT IS USED IN LIEU OF CROWNWEED, INCREASE RATE TO 30 LB/ACRE. ALL LEGUME SEED MAY BE PROPERLY INOCULATED. KEEPING LOVEGRASS MAY BE ADDED TO ANY SLOPE OR LOW-MAINTENANCE MIX DURING WARMER SEEDING PERIODS; ADD 10-20 LB/ACRE IN MIX.

SHEET TITLE
SEWER DETAILS

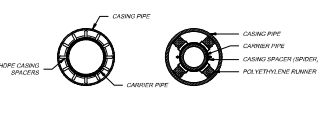
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- A. IF TYPICAL SHALL BE REQUIRED ON THE LOWER END OF THE CASING PIPE.
- B. SPACERS SHALL BE EACH HOPE SPACERS OR EQUIVALENT. STAINLESS STEEL SPACERS MAY BE USED IN COMPLIANCE WITH THE FOLLOWING CRITERIA:
 - a. MATERIAL TYPE AND GRADE SHALL BE AS SPECIFIED IN THE BAND SHALL BE LINED WITH FORM OF NON-WEAR MATERIAL.
 - b. HARDNESS OF THE SPACERS SHALL BE POLYMER MATERIAL WITH EACH END REVEALED TO FACILITATE EASE OF INSTALLATION INTO CASING PIPE.
- C. SPACERS SHALL SPACE SECTIONS 6' ± ON SCHED PIPE.
- D. CASING PIPES SHALL BE INSTALLED IN ACCORDANCE WITH REGIONAL STANDARDS.
- E. IF HOPE CARRIER PIPE IS USED AND PRECISE GRADES ARE NOT REQUIRED THROUGH CASING, THE HOPE CARRIER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH REGIONAL STANDARDS.
- F. CASING PIPE TO BE STEEL IN ACCORDANCE WITH AISC STANDARD TABLE EX-10 HOPE AS SPECIFIED IN THE STANDARDS IF APPROVED BY THE PARTICIPATING UTILITY.
- G. CONCRETE CASING PIPE SHALL BE CAST IN PLACE.
 - a. MINIMUM DIAMETER OF CASING PIPE SHALL BE AS SHOWN IN THE TABLE BELOW UNLESS OTHERWISE SPECIFIED.
 - b. MINIMUM WALL THICKNESS OF CASING PIPE SHALL BE AS REQUIRED.
 - c. MINIMUM DIAMETER OF CASING PIPE SHALL BE MINIMUM DIAMETER TO ADEQUATELY INSTALL AND PASS CARRIER PIPE THROUGH AND TO MINIMIZE VOID SPACE BETWEEN CARRIER AND CASING PIPES.



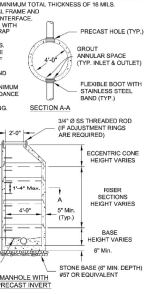
* ADDITIONAL SPACING ALLOWED AS RECOMMENDED BY PIPE MANUFACTURER.



WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

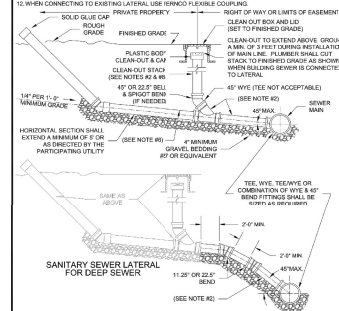
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WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

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WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

SANITARY SEWER LATERAL

WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

LOW PRESSURE AIR TESTING TABLE

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- | TABLE 1. SENSITIVITY OF SPECIFICATION TIME TO LENGTH OF PILE AND LENGTH OF PILE NEEDED FOR 10% EXCESSIVE LENGTH | | | | | | | | | |
|---|--------------------|-----------------|---|-------|-------|-------|-------|-------|-------|
| PILE LENGTH (M) | MINIMUM LENGTH (M) | TRUE LENGTH (M) | SPECIFICATION TIME FOR EXCESSIVE LENGTH (MIN SEC) | | | | | | |
| 10 | 10 | 10 | 10.00 | 10.01 | 10.02 | 10.03 | 10.04 | 10.05 | 10.06 |
| 15 | 15 | 15 | 15.00 | 15.01 | 15.02 | 15.03 | 15.04 | 15.05 | 15.06 |
| 20 | 20 | 20 | 20.00 | 20.01 | 20.02 | 20.03 | 20.04 | 20.05 | 20.06 |
| 4 | 3.48 | 3.48 | 3.48 | 3.48 | 3.48 | 3.48 | 3.48 | 3.48 | 3.48 |
| 6 | 5.42 | 5.98 | 8.54 | 5.43 | 5.49 | 5.40 | 5.40 | 5.40 | 5.42 |
| 8 | 7.36 | 8.41 | 11.45 | 7.37 | 7.44 | 7.35 | 7.35 | 7.35 | 7.37 |
| 10 | 9.30 | 10.28 | 13.94 | 9.31 | 9.38 | 9.29 | 9.29 | 9.29 | 9.31 |
| 12 | 11.24 | 12.15 | 16.43 | 11.25 | 11.32 | 11.23 | 11.23 | 11.23 | 11.25 |
| 14 | 13.18 | 14.04 | 18.92 | 13.19 | 13.26 | 13.17 | 13.17 | 13.17 | 13.19 |
| 16 | 15.12 | 15.94 | 21.42 | 15.13 | 15.20 | 15.11 | 15.11 | 15.11 | 15.13 |
| 18 | 17.06 | 17.83 | 23.91 | 17.07 | 17.14 | 17.05 | 17.05 | 17.05 | 17.07 |
| 20 | 19.00 | 19.82 | 26.40 | 19.01 | 19.08 | 18.99 | 18.99 | 18.99 | 19.01 |
| 22 | 20.94 | 21.81 | 28.90 | 20.95 | 21.02 | 20.93 | 20.93 | 20.93 | 20.95 |
| 24 | 22.88 | 23.79 | 31.39 | 22.89 | 22.96 | 22.87 | 22.87 | 22.87 | 22.89 |
| 26 | 24.82 | 25.75 | 33.88 | 24.83 | 24.90 | 24.81 | 24.81 | 24.81 | 24.83 |
| 28 | 26.76 | 27.70 | 36.38 | 26.77 | 26.84 | 26.75 | 26.75 | 26.75 | 26.77 |
| 30 | 28.70 | 29.64 | 38.87 | 28.71 | 28.78 | 28.69 | 28.69 | 28.69 | 28.71 |
| 32 | 30.64 | 31.58 | 41.36 | 30.65 | 30.72 | 30.63 | 30.63 | 30.63 | 30.65 |
| 34 | 32.58 | 33.52 | 43.86 | 32.59 | 32.66 | 32.57 | 32.57 | 32.57 | 32.59 |
| 36 | 34.52 | 35.46 | 46.35 | 34.53 | 34.60 | 34.51 | 34.51 | 34.51 | 34.53 |
| 38 | 36.46 | 37.40 | 48.84 | 36.47 | 36.54 | 36.45 | 36.45 | 36.45 | 36.47 |
| 40 | 38.40 | 39.34 | 51.34 | 38.41 | 38.48 | 38.39 | 38.39 | 38.39 | 38.41 |
| 42 | 40.34 | 41.28 | 53.83 | 40.35 | 40.42 | 40.33 | 40.33 | 40.33 | 40.35 |
| 44 | 42.28 | 43.22 | 56.33 | 42.29 | 42.36 | 42.27 | 42.27 | 42.27 | 42.29 |
| 46 | 44.22 | 45.16 | 58.82 | 44.23 | 44.30 | 44.21 | 44.21 | 44.21 | 44.23 |
| 48 | 46.16 | 47.10 | 61.32 | 46.17 | 46.24 | 46.15 | 46.15 | 46.15 | 46.17 |
| 50 | 48.10 | 49.04 | 63.81 | 48.11 | 48.18 | 48.09 | 48.09 | 48.09 | 48.11 |
| 52 | 50.04 | 50.98 | 66.31 | 50.05 | 50.12 | 50.03 | 50.03 | 50.03 | 50.05 |
| 54 | 51.98 | 52.92 | 68.80 | 51.99 | 52.06 | 51.97 | 51.97 | 51.97 | 51.99 |
| 56 | 53.92 | 54.86 | 71.30 | 53.93 | 54.00 | 53.91 | 53.91 | 53.91 | 53.93 |
| 58 | 55.86 | 56.80 | 73.79 | 55.87 | 55.94 | 55.85 | 55.85 | 55.85 | 55.87 |
| 60 | 57.80 | 58.74 | 76.29 | 57.81 | 57.88 | 57.79 | 57.79 | 57.79 | 57.81 |
| 62 | 59.74 | 60.68 | 78.78 | 59.75 | 59.82 | 59.73 | 59.73 | 59.73 | 59.75 |
| 64 | 61.68 | 62.62 | 81.28 | 61.69 | 61.76 | 61.67 | 61.67 | 61.67 | 61.69 |
| 66 | 63.62 | 64.56 | 83.77 | 63.63 | 63.70 | 63.61 | 63.61 | 63.61 | 63.63 |
| 68 | 65.56 | 66.50 | 8 | | | | | | |

NOTE: IF THERE HAS BEEN NO LEAKAGE (ZERO PICO DROPS) AFTER ONE HOUR OF TESTING, THE TEST SHALL BE
 REVERTED AND THE TEST COMPLETED

PROOF: Suppose that Γ is not a GCD domain.

WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL.

LOW-PRESSURE AIR TESTING TABLE

LOW-PRESSURE AIR TESTING TABLE
