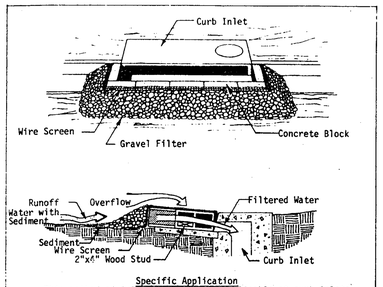
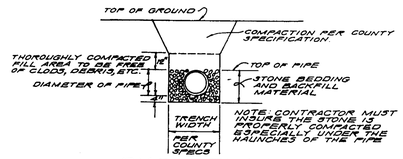


Specific Application

This method of inlet protection is applicable at curb inlets where an overflow capability is necessary to prevent excessive ponding in front of the structure.

BLOCK AND GRAVEL CURB INLET SEDIMENT FILTER

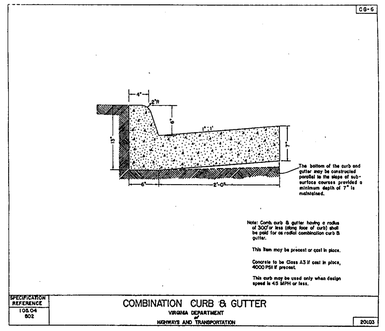


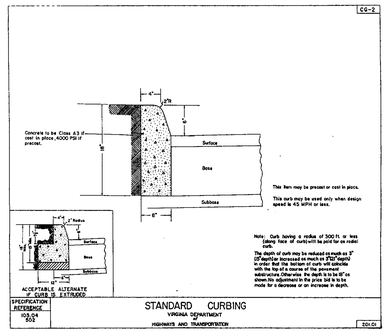
PVC DETAIL

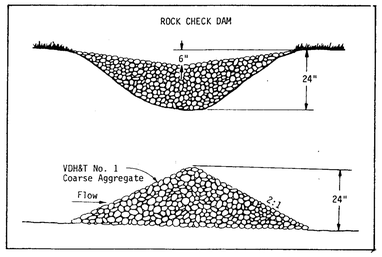
SANITARY SEWER BEDDING AND BACKFILL DETAIL FOR PLASTIC PIPE

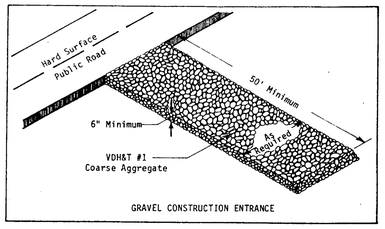
No Scale

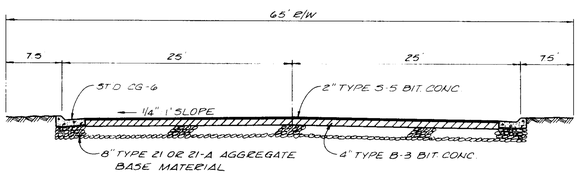
NOTE: SEWER LINE EXCAVATED TO DEPTHS IN EXCESS OF 1.5 FEET SHALL HAVE STONE BEDDING AND BACKFILL MATERIAL TO A MINIMUM OF 12" ABOVE TOP OF PIPE









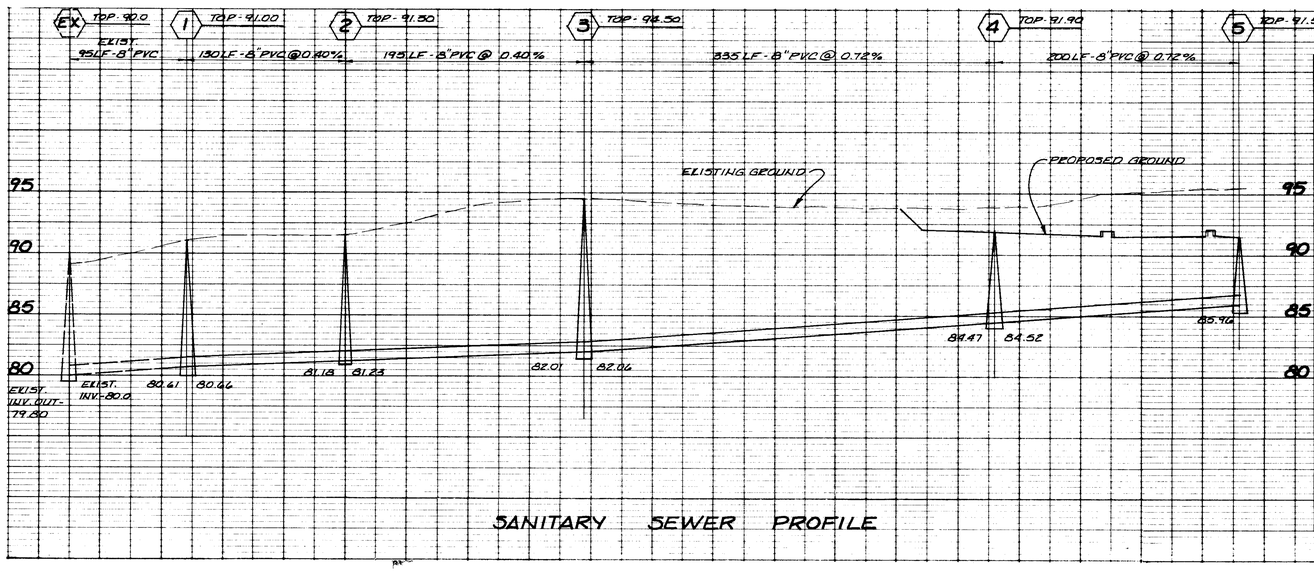


SECTION A-A

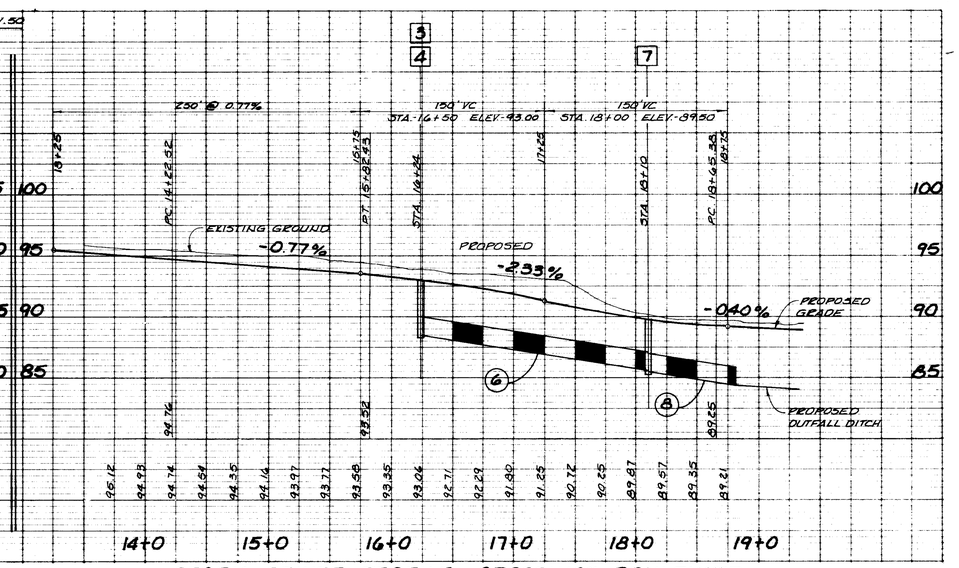
NO SCALE

GENERAL NOTES

1. PROPOSED USE: *OFFICE*
2. ZONING:
3. OWNER AND DEVELOPER: *BOGESE, INC.*
4. ENGINEER AND SURVEYOR: J.K. TIMMONS AND ASSOCIATES, P.C.
   CONSULTING ENGINEERS AND SURVEYORS
   411 EAST BROADWAY
   HOPEWELL, VIRGINIA 23860
   804-458-8685
5. ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL DATUM.
6. ALL SITE WORK SHALL BE IN STRICT CONFORMANCE WITH THE EROSION AND SEDIMENT CONTROL ORDINANCE OF THE
7. PROPOSED UTILITIES: WATER- *EXTENSION OF PUBLIC SYSTEM*
   SEWAGE-EXTENSION OF PUBLIC SYSTEM
8. UNLESS OTHERWISE DESIGNATED, ALL STRUCTURES AND DESIGN STANDARDS ARE IN ACCORDANCE WITH THE CURRENT EDITION OF THE "ROAD DESIGN AND STANDARDS" MANUAL (1986) OF THE VDH&T AND SHALL BE CONSTRUCTED AS SHOWN THEREIN.
9. CURRENT SPECIFICATIONS OF THE VIRGINIA DEPARTMENT OF HIGHWAYS AND TRANSPORTATION SHALL GOVERN ALL PHASES OF THIS PROJECT.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PRESERVE ALL EXISTING RIGHT-OF-WAYS OR PROPERTY LINE MARKERS. ANY MARKERS DAMAGED OR LOST SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
11. ANY GRADE OR CONTROL STAKES DAMAGED OR LOST SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
12. THE EXACT LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITY LINES WITHIN THE AREA OF THIS PROJECT IS UNKNOWN. BEFORE ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES TO DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES.
    CONTACT: CENTRAL UTILITY INFORMATION SERVICE
    "MISS UTILITY" - 1-800-552-7001
13. FILL MATERIAL DATA IS AVAILABLE FROM REPORTS BY SCHNABEL ENGINEERING ASSOCIATES, GEOTECHNICAL ENGINEERS.
14. MATERIAL FOR COMPACTED FILL SHALL BE CLASSIFIED CL OR BETTER IN ACCORDANCE WITH ASTM D-2487 WITH A PLASTICITY INDEX LESS THAN 20.
15. EXCESS MATERIAL SHALL BE DISPOSED OF ON SITE AT THE DIRECTION OF THE ENGINEER.
16. STRUCTURAL FILL SHALL BE COMPACTED TO AT OPTIMUM MOISTURE, WITHIN PLUS OR MINUS 20% OF OPTIMUM. DENSITY OF THE COMPACTED FILL SHALL BE 95% OF THE THEORETICAL MAXIMUM DENSITY AS DETERMINED IN ACCORDANCE WITH VTM-1. FILL LIFTS SHALL NOT EXCEED 6 INCHES.
17. THE LOCATION OF ALL DRAINAGE STRUCTURES ON THESE PLANS IS APPROXIMATE, FINAL FIELD LOCATION WILL BE MADE BY OWNER.
18. CLEARING AND GRUBBING SHALL BE COMPLETE TO THE RIGHT-OF-WAY OR TO THE CONSTRUCTION LIMITS AS INDICATED ON PLANS.
19. STORM DRAINAGE STRUCTURES SUCH AS DROP INLETS, END WALLS, PAVED DITCHES, ETC., ARE DESIGNATED IN ACCORDANCE WITH STANDARD STRUCTURES AS SHOWN IN THE CURRENT EDITION OF THE "ROAD DESIGNS AND STANDARDS" MANUAL OF THE VDH&T AND SHALL BE CONSTRUCTED AS SHOWN THEREIN.
20. DRAINAGE PIPE SHALL BE OF THE TYPE AND CLASS SHOWN ON THE PLANS. THE CONTRACTOR MAY SUBSTITUTE A DIFFERENT TYPE PIPE OF EQUAL STRENGTH AND QUALITY WITH PRIOR APPROVAL OF THE ENGINEER.
21. ALL DRAINAGE EASEMENTS TO BE CLEARED, GRUBBED, AND GRADED TO CONTAIN WATER FROM PIPE CULVERTS.
22. ALL UTILITIES TO BE IN PLACE BEFORE APPLYING AGREGATE BASE MATERIAL.
23. THE STABILIZED BASE COURSE IS TO BE APPROVED FOR MATERIAL, DEPTH AND COMPACTION PRIOR TO APPLICATION OF THE SURFACE PAVEMENT.
24. EXCESS EXCAVATED MATERIAL TO BE DISPOSED OF AS DIRECTED BY OWNER, ADDITIONAL FILL MATERIAL, IF REQUIRED, SHALL BE SUPPLIED BY THE CONTRACTOR AS A PART OF THE OVERALL PROJECT.
25. ALL PROVISIONS OF THE EROSION AND SEDIMENT CONTROL ORDINANCE SHALL BE COMPLIED WITH, THE FOLLOWING TO BE CONSIDERED MINIMUM MEASURES:
    1. STRAW BALE BARRIERS FOR SEDIMENT CONTROL WILL BE INSTALLED PRIOR TO ANY GROUND DISTURBING ACTIVITY AT LOCATIONS SHOWN ON PLANS OR AT THE DIRECTION OF THE OWNER.
    2. SEEDING SCHEDULE: DISTURBED AREAS WILL BE SEEDED WITHIN 30 DAYS AFTER GRADING ALL CUT AND FILL SLOPES AND CHANNEL SIDE SLOPES WHICH ARE NOT TO BE PAVED SHALL BE SEEDED UNTIL A GOOD STAND OF GRASS IS OBTAINED, IN ACCORDANCE WITH BELOW:
       A. 100 POUNDS PER 1,000 S.F. GROUND LIMESTONE OR EQUIVALENT. NO SOIL TEST REQUIRED FOR INITIAL ESTABLISHMENT.
       B. 20 POUNDS OF 10-10-10 FERTILIZER OR EQUIVALENT PER 1,000 S.F.
       C. VARIETIES TO BE SEEDED:
          (1) SUMMER SEEDING - MAY 1 - AUG. 1 - RED FESCUE 4 POUNDS PER 1,000 S.F.
          (2) AUTUMN SEEDING - AUG. 1 - NOV. 15 - KY. 31 TALL FESCUE 1½ POUNDS PER 1,000 S.F.
          (3) SPRING SEEDING - MARCH 1 - APRIL 30 - SPRING OAT 25 POUNDS PER 1,000 S.F.
          (4) MULCH - 100 POUNDS OF STRAW PER 1,000 S.F. ALL SEEDING TO BE MULCHED.
26. ADDITIONAL MECHANICAL AND/OR VEGETATIVE EROSION OR SEDIMENT CONTROL MEASURES MAY BE REQUIRED DURING THE COURSE OF THE PROJECT.



SANITARY SEWER PROFILE



STORM SEWER PROFILE - CROSSINGS BOULEVARD

J. K. TIMMONS & ASSOCIATES, P.C.
ENGINEERS · SURVEYORS · PLANNERS
711 NORTH COURTHOUSE ROAD RICHMOND, VIRGINIA 23235 TELEPHONE: (804) 794-3500
8803 STAPLES MILL ROAD RICHMOND, VIRGINIA 23228 TELEPHONE: (804) 262-7386
411 EAST BROADWAY HOPEWELL, VIRGINIA 23860 TELEPHONE: (804) 458-8685

THE CROSSINGS OFFICE PARK

PRINCE GEORGE COUNTY, VIRGINIA

REVISIONS

COMMONWEALTH OF VIRGINIA
WALTER M. ALTMAN III
LICENSE NO 11039
PROFESSIONAL ENGINEER

STAMP: AS NOTED
SCALE: G.F.C.
DRAWN BY: JULY 1 87
DATE DRAWN: E.L.G.
DESIGNED: W.M.A. III
CHECKED: 2 OF 3
SHEET NUMBER: 8612-44
JOB NUMBER