# VDOT GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY SHALL BE IN ACCORDANCE WITH CURRENT VIRGINIA DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS AND STANDARDS.
2. LAND USE PERMITS (CE-7) MUST BE OBTAINED FROM THE VIRGINIA DEPARTMENT OF TRANSPORTATION PRIOR TO BEGINNING ANY CONSTRUCTION WITHIN THE EXISTING STATE MAINTAINED RIGHT OF WAY (INCLUDING ACCESS).
3. VDOT IS TO RECEIVE WRITTEN NOTIFICATION 48 HOURS PRIOR TO COMMENCING WITH INITIAL CONSTRUCTION ACTIVITIES.
4. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CONSULT THE ENGINEER AND VERIFY THE APPROVAL OF THE PLANS BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL AGENCIES.
5. PRELIMINARY DESIGN OF THE PAVEMENT STRUCTURE FOR ALL SUBDIVISION STREETS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE PAVEMENT DESIGN GUIDE FOR SUBDIVISION AND SECONDARY ROADS IN VIRGINIA. THE COMPLETED DESIGN WORKSHEET APPENDIX IV SHALL BE INCLUDED WITH THE INITIAL PLAN SUBMITTAL FOR EACH PROPOSED PAVEMENT SECTION UTILIZING THE PREDICTED SOIL SUPPORT VALUE SHOWN IN APPENDIX I OF THE PAVEMENT DESIGN GUIDE.
6. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL POINTS OF CONNECTION OR PROPOSED WORK TO EXISTING CURBS, SANITARY LINES, WATER LINES, ETC..., PRIOR TO CONSTRUCTION.
7. UPON DISCOVERY OF SOILS THAT ARE UNSUITABLE FOR FOUNDATIONS, SUB GRADES, OR OTHER ROADWAY CONSTRUCTION PURPOSES, THE CONTRACTOR SHALL IMMEDIATELY CONTACT A GEOTECHNICAL ENGINEER AND VDOT. THESE AREAS SHALL BE EXCAVATED BELOW PLAN GRADE AS DIRECTED BY THE GEOTECHNICAL ENGINEER, BACK FILLED WITH SUITABLE MATERIAL AND COMPACTED IN ACCORDANCE WITH CURRENT VDOT SPECIFICATIONS.
8. ALL STORM SEWER DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH VDOT I & I LD-94 (D) 121.13.
9. ALL STORM SEWER PIPES SHALL BE REINFORCED TONGUE AND GROOVE CONCRETE PIPE IN ACCORDANCE WITH ASTM-C-76. PIPE WITHIN THE RIGHT OF WAY SHALL BE A MINIMUM CL-III OR GREATER IN ACCORDANCE WITH CURRENT VDOT STANDARDS AND SPECIFICATIONS.
10. ALL PRE-CAST UNITS SHALL BE VDOT APPROVED. CERTIFICATION AND VDOT STAMP WILL BE REQUIRED ON ALL UNITS. SHOP DRAWINGS, GEOTECHNICAL DATA AND SOIL BEARING CAPACITY, AND PLAN VIEW SHALL BE SUBMITTED AS PACKAGE FOR VDOT REVIEW AND APPROVAL.
11. ALL CONCRETE SHALL BE CLASS A3-AE (AIR ENTRAINED 3,000 PSI).
12. ALL ENTRANCES ARE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CURRENT VDOT STANDARDS. RESIDENTIAL LOT ACCESS SHALL BE PROVIDED PER THE FOLLOWING CRITERIA:
    - -ALL DRIVEWAY ENTRANCE CULVERTS ARE TO BE 15" DIAMETER X 20' LONG PIPE AND SHALL CONFORM TO PE-1 PRIVATE ENTRANCE STANDARDS UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. NO ENTRANCE CULVERTS ARE TO BE INSTALLED WITHIN FIVE (5) FEET OF A PROPERTY CORNER.
    - -VDOT STANDARD CG-9D ENTRANCES SHALL BE INSTALLED IN CURB AND GUTTER NEIGHBORHOODS.

    INSPECTIONS TO BE PERFORMED BY VDOT SHALL BE REQUESTED IN WRITING, 48 HOURS PRIOR TO ENTRANCE INSTALLATION.
13. THE DEVELOPER IS RESPONSIBLE FOR FURNISHING AND INSTALLING STOP SIGNS AT STREET INTERSECTIONS, AS WELL AS, ALL SIGNS DEEMED PERTINENT TO THE PROPOSED DEVELOPMENT. THE CONTRACTOR SHALL CONTACT THE RICHMOND DISTRICT TRAFFIC ENGINEERING OFFICE AT 804-524-6000 TO ESTABLISH LOCATIONS FOR ANY SIGNAGE REQUIREMENTS AS DEEMED NECESSARY BY VDOT INSPECTOR. INSTALLATION OF SAID SIGNS SHALL OCCUR AT NO EXPENSE TO THE STATE AND PRIOR TO STATE ACCEPTANCE OF ROADWAY(S).
14. DESIGN CHANGES, SPECIFIED MATERIALS CHANGES AND/OR FIELD CHANGES FROM THE APPROVED PLANS NEED TO BE RESUBMITTED TO VDOT PRIOR TO PROCEEDING WITH THE WORK. A LETTER OF EXPLANATION SHALL ACCOMPANY THE REVISED PLANS AND/OR DRAINAGE CALCULATIONS, WHICH MUST BE SUBMITTED, TO VDOT FOR REVIEW AND APPROVAL BY THE RESIDENT ENGINEER.
15. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT THAN THAT SHOWN ON PLAN. IF THERE APPEARS TO BE A CONFLICT, AND UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THIS PLAN, CALL MISS UTILITY OF CENTRAL VIRGINIA AT 1-800-552-7001. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY UTILITY WITHIN EXISTING AND/OR PROPOSED RIGHT OF WAY REQUIRED BY THE DEVELOPMENT.
16. ALL STREETLIGHTS SHALL BE LOCATED A MINIMUM OF 9.5' FROM THE EDGE OF PAVEMENT ON CURB AND GUTTER STREETS AND/OR LOCATED A MINIMUM OF 5.5' BEHIND THE DITCH LINE ON OPEN DITCH STREETS.
17. GENERALLY, PAVED ROADSIDE DITCHES ARE TO BE SPECIFIED WHEN VELOCITIES EXCEED CURRENT VDOT DESIGN CRITERIA OR WHEN DITCH SLOPES ARE LESS THAN 0.75%. WHERE DITCH SLOPES EXCEED 5.0%, THE DEVELOPER MAY CHOOSE TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES IN AN ATTEMPT TO ACHIEVE CHANNEL STABILIZATION WHILE ACKNOWLEDGING THAT ADDITIONAL PAVED DITCH LININGS MAY BE REQUIRED PRIOR TO ACCEPTANCE OF THE ROADS INTO THE SECONDARY SYSTEM OF STATE HIGHWAYS. PAVED ROADSIDE DITCHES SHALL CONFORM TO VDOT-PG-2A STANDARDS AND SPECIFICATIONS.
18. VDOT AND COUNTY APPROVAL OF CONSTRUCTION PLANS DOES NOT PRECLUDE THE RIGHT TO REQUIRE ADDITIONAL FACILITIES AS DEEMED NECESSARY FOR ACCEPTANCE OF THE ROADS INTO THE VDOT SECONDARY ROAD SYSTEM.
19. VDOT APPROVAL OF SITE PLANS WILL EXPIRE FIVE (5) YEARS FROM THE DATE OF THE INITIAL APPROVAL. VDOT APPROVAL OF SUBDIVISION PLANS WILL EXPIRE THREE (3) YEARS FROM THE DATE OF THE INITIAL APPROVAL.
20. VDOT SHALL HAVE PERFORMED THE REQUIRED FIELD INSPECTION (PROOF ROLL) PRIOR TO PLACEMENT OF THE AGGREGATE BASE COURSE(S). CONTACT VDOT, IN WRITING, FOR SUB GRADE INSPECTION 48 HOURS PRIOR TO SCHEDULING PLACEMENT OF AGGREGATE BASE COURSE(S).

VDOT NOTES CONTINUED

21. A PRIME COAT SEAL BETWEEN THE AGGREGATE BASE AND BITUMINOUS CONCRETE WILL BE REQUIRED AT A RATE OF 0.30 GALLONS PER SQUARE YARD (REC-250 PRIME COAT) PER VDOT STANDARDS AND SPECIFICATIONS.
22. THE SCHEDULING OF AGGREGATE BASE INSTALLATION AND SUBSEQUENT PAVING ACTIVITIES SHALL ACCOMMODATE FORECAST WEATHER CONDITIONS PER SECTION 315 OF THE ROAD AND BRIDGE SPECIFICATIONS.
23. VDOT SHALL HAVE APPROVED THE AGGREGATE BASE COURSE(S) FOR DEPTH, TEMPLATE AND PERFORMED THE REQUIRED FIELD INSPECTION (PROOF ROLL) PRIOR TO PLACEMENT OF ANY SURFACE COURSE(S). CONTACT VDOT, IN WRITING, FOR INSPECTION OF THE AGGREGATE BASE COURSE(S) 48 HOURS PRIOR TO APPLICATION OF THE SURFACE COURSE(S).
24. AN ACTUAL COPY OF THE CBR REPORT IS TO BE SUBMITTED TO VDOT IN CONJUNCTION WITH FINAL PAVEMENT DESIGNS. ALL PAVEMENT DESIGN RECOMMENDATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE PAVEMENT DESIGN GUIDE FOR SUBDIVISION AND SECONDARY ROADS IN VIRGINIA.
25. A LICENSED GEOTECHNICAL ENGINEER SHALL ASCERTAIN CAUSE AND CERTIFY RECOMMENDED METHOD OF REPAIR FOR ALL PAVEMENT STRUCTURAL FAILURES PRIOR TO STATE ACCEPTANCE.
26. ALL VEGETATION AND ORGANIC MATERIAL IS TO BE REMOVED FROM THE RIGHT OF WAY LIMITS PRIOR TO CONDITIONING OF THE SUBGRADE.
27. DRY GUTTER IN NOT ALLOWED IN VDOT RIGHT OF WAY.
28. THE DEVELOPER WILL BE RESPONSIBLE FOR THE DESIGN COSTS OF ANY TRAFFIC SIGNAL INSTALLATION AND/OR MODIFICATION UNDER AN ACCOUNT RECEIVABLE WITH VDOT.
29. THE NECESSITY AND LOCATIONS FOR ADDITIONAL VDOT STANDARD UNDER DRAINS TO BE DETERMINED AT TIME OF SUBGRADE INSPECTION.
30. APPROVAL OF A DETAILED CONSTRUCTION SEQUENCING/MAINTENANCE OF TRAFFIC NARRATIVE FOR THE WORK ZONE IS A PREREQUISITE FOR ISSUANCE OF A LAND USE PERMIT ALLOWING ACCESS TO AND CONSTRUCTION WITHIN VDOT MAINTAINED RIGHT-OF-WAY.
31. VDOT SHALL BE PROVIDED DOCUMENTATION BY A GEOTECHNICAL ENGINEER, CERTIFYING THAT ALL IN-PLACE PAVEMENTS MEET OR EXCEED THE APPROVED PAVEMENT DESIGNS THICKNESS PRIOR TO STATE ACCEPTANCE. THE CERTIFYING DOCUMENTATION SHALL CONFORM TO VDOT SPECIFICATIONS AND THE APPROVED PLANS.
32. THE ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER IS REQUIRED ON ALL DENUDED AREAS THAT ARE NOT TO BE FINE GRADED FOR PERIODS LONGER THAN 30 DAYS.
33. NO STRUCTURE SHALL BE CONSTRUCTED ON STATE MAINTAINED RIGHTS OF WAY UNLESS SAID STRUCTURES ARE SHOWN ON ROAD CONSTRUCTION PLANS APPROVED BY VDOT OR COVERED BY A VDOT LAND USE PERMIT (OR BY A LETTER OF INTENT FROM THE RESIDENT ENGINEER TO ISSUE SAID PERMIT AT THE TIME OF STATE ACCEPTANCE).
34. THE DEVELOPER IS RESPONSIBLE FOR CONTACTING THE RICHMOND DISTRICT TRAFFIC ENGINEERING SECTION AT 804-524-6000 FOR GUARDRAIL LOCATION AND PLACEMENT REQUIREMENTS.
35. A PRECONSTRUCTION MEETING IS REQUIRED PRIOR TO UNDERTAKING ANY ROADWAY CONSTRUCTION ACTIVITIES. DEVELOPER OR DESIGNEE WILL CONTACT CHESTERFIELD RESIDENCY, IN WRITING, FIVE WORKING DAYS IN ADVANCE OF ANTICIPATED CONSTRUCTION START TO ESTABLISH DATE, TIME AND LOCATION FOR PRECONSTRUCTION MEETING. THE PRIMARY FUNCTION OF THE CONSTRUCTION MEETING WILL BE TO IDENTIFY GEOTECHNICAL PARAMETERS OF PROPOSED CONSTRUCTION ACTIVITIES.
36. EXISTING PAVEMENT MARKINGS WITHIN STATE RIGHT OF WAY ARE TO BE ERADICATED (ALL ERADICATION SCARS SHALL BE OVERLAID WITH SURFACE MUX OR SLURRY SEAL #4). ALL NEW STRIPING REQUIRES THE USE OF THERMOPLASTIC PAVEMENT MARKINGS. CONTACT DISTRICT TRAFFIC ENGINEERING OFFICE AT (804) 524-6193 TEN DAYS PRIOR TO PROCEEDING FOR STRIPING LAYOUT
37. A GEOTECH REPORT SHALL VERIFY/APPROVE STONE DEPTHS IN ACCORDANCE WITH VDOT APPROVED PAVEMENT DESIGNS, PRIOR TO ASPHALT PLACEMENT.
38. ALL CONSTRUCTION DEBRIS, MATERIALS, DUMPSTERS, ETC. SHALL BE LOCATED OUTSIDE THE ROADWAY PRISM PRIOR TO STATE ACCEPTANCE OF THE ROADS AND SHALL BE MAINTAINED OUTSIDE THE ROADWAY PRISM WITHIN EXISTING STATE ROUTES.
39. ANY LANDSCAPING, IDENTIFICATION SIGNS, LIGHTING, ETC. THAT MAY BE INDICATED WITHIN THE CONSTRUCTION PLANS SHALL BE FOR INFORMATION PURPOSES ONLY. NON-STANDARD ITEMS MUST BE APPROVED BY SEPARATE SUBMITTAL THROUGH THE PERMITTING PROCESS.

## *CHESTERFIELD COUNTY SEWER AND WATER NOTES PER DETAIL DES-02*

1. ALL MATERIALS FOR SEWER AND WATER SYSTEMS SHOWN SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF CHESTERFIELD COUNTY APPLICABLE AT THE TIME OF NOTICE TO PROCEED.
2. FOR SEWER AND WATER INSTALLATION WITHIN EXISTING VDOT R/W; UTILITY CONTRACTORS MUST NOTIFY VDOT WHEN INSTALLATION BEGINS SO THAT DENSITY CAN BE TESTED ON TRENCH BACKFILL (95% ASTM. D-698 @ OPTIMUM MOISTURE ± 2%).
3. THE INSTALLATION OF A SEWER BACKFLOW DEVICE IS REQUIRED FOR ALL SERVICE CONNECTIONS WHERE THE FINISHED FLOOR ELEVATION IS LOWER THAN THE NEAREST DOWNGRADE AND/OR UPGRADE MANHOLE TOP ELEVATIONS. THIS DEVICE WILL BE INSPECTED BY THE BUILDING INSPECTION DEPARTMENT.
4. ALL WATER SERVICE CONNECTIONS BELOW THE ____ CONTOUR OR WHERE THE PRESSURE IS GREATER THAN 80 P.S.I. WILL REQUIRE INDIVIDUAL PRESSURE REGULATORS AS REQUIRED BY BOCA CODE.
5. VERTICAL DATUM IS BASED ON MEAN SEA LEVEL (USC & GS DATUM). HORIZONTAL CONTROLS ARE BASED ON VIRGINIA STATE PLANE COORDINATE GRID, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83).
6. CONTRACTOR SHALL PROPERLY NOTIFY ALL PROPERTY OWNERS TWO (2) WEEKS PRIOR TO THE START OF ANY CONSTRUCTION (INCLUDING LAND CLEARING). NOTIFICATION SHALL BE IN THE FORM OF A LETTER SIMILAR TO THE "SAMPLE" REFLECTED IN THE COUNTY'S LATEST WATER AND SEWER SPECIFICATIONS (NOT-1).

PB-1

GENERAL

1. METHOD "A" PIPE BEDDING SHALL BE USED FOR ALL TYPES OF PIPE CULVERTS WITHIN THE APPLICABLE HEIGHT OF COVER RANGE NOTED IN THE STANDARD PC-1 TABLES UNLESS OTHERWISE NOTED ON THE PLANS.
2. H = HEIGHT OF COVER MEASURED FROM TOP OF CULVERT TO FINISHED GRADE.
3. b = EXCAVATION DEPTH AS SHOWN ON PLANS OR TO FIRM BEARING SOIL.

CIRCULAR PIPE

1. D = OUTSIDE DIAMETER OF PIPE.
2. d = INSIDE DIAMETER OF PIPE.
3. X = WIDTH OF CLASS I BACKFILL MATERIAL BEYOND THE EXTREMITY OF THE PIPE. X = 12" WHERE d IS LESS THAN 36". X = 18" WHERE d IS 36" AND GREATER.
4. WHERE DIRECTED BY THE ENGINEER, BEDDING MATERIAL MAY BE ELIMINATED FOR NORMAL EARTH FOUNDATIONS UNDER ROUTINE ENTRANCE PIPE (EXCEPT PLASTIC PIPE) 30" AND LESS IN DIAMETER WITH HEIGHT OF COVER 15' OR LESS.
5. REGULAR BACKFILL MATERIAL MAY BE USED IN LIEU OF CLASS I BACKFILL MATERIAL FOR ALL FOUNDATION TYPES FOR ROUTINE ENTRANCE PIPE (EXCEPT PLASTIC PIPE) 30" AND LESS IN DIAMETER WITH HEIGHT OF COVER 15' OR LESS.
6. BEDDING MATERIAL AND CLASS I BACKFILL MATERIAL MAY BE ELIMINATED FOR SHOULDER SLOT INLET (DI-13) OUTLET PIPES INSTALLATIONS.

ELLIPTICAL PIPE

1. $S_1$ = OUTSIDE SPAN DIMENSION OF PIPE.
2. $S_2$ = INSIDE SPAN DIMENSION OF PIPE.
3. R = OUTSIDE RISE DIMENSION OF PIPE.
4. X = WIDTH OF CLASS I BACKFILL MATERIAL BEYOND THE EXTREMITY OF THE PIPE. X = 12" WHERE $S_2$ IS LESS THAN 36". X = 18" WHERE $S_2$ IS 36" AND GREATER.
5. WHERE DIRECTED BY THE ENGINEER, BEDDING MATERIAL MAY BE ELIMINATED FOR NORMAL EARTH FOUNDATIONS UNDER ROUTINE ENTRANCE PIPE WHERE $S_2$ IS 38" OR LESS AND HEIGHT OF COVER 15' OR LESS.
6. REGULAR BACKFILL MATERIAL MAY BE USED IN LIEU OF CLASS I BACKFILL MATERIAL FOR ALL FOUNDATION TYPES FOR ROUTINE ENTRANCE PIPE WHERE $S_2$ IS 38" OR LESS AND HEIGHT OF COVER 15' OR LESS.

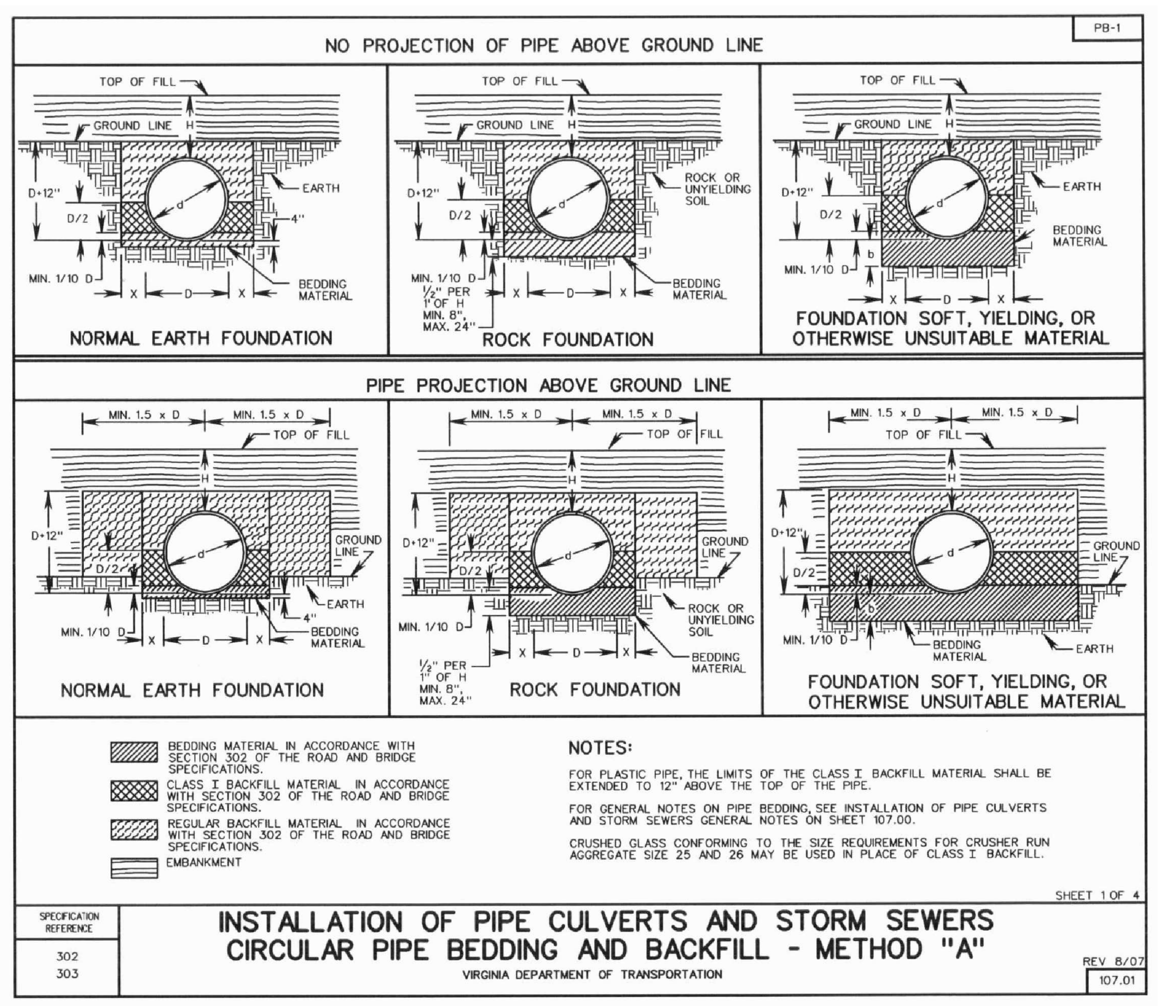
PIPE ARCH

1. S = SPAN DIMENSION OF PIPE.
2. R = RISE DIMENSION OF PIPE.
3. B = SEE PC-1 TABLE FOR APPLICABLE PIPE MATERIAL.
4. x = WIDTH OF CLASS I BACKFILL MATERIAL BEYOND THE EXTREMITY OF THE PIPE. x = 12" WHERE S2 IS LESS THAN 36". x = 18" WHERE S2 IS 36" AND GREATER
5. WHERE DIRECTED BY THE ENGINEER BEDDING MATERIAL MAY BE ELIMINATED FOR NORMAL EARTH FOUNDATIONS UNDER ROUTINE ENTRANCE PIPE WHERE S2 IS 35" OR LESS AND HEIGHT OF COVER 15' OR LESS.
6. REGULAR BACKFILL MATERIAL MAY BE USED IN LIEU OF CLASS I BACKFILL MATERIAL FOR ALL FOUNDATION TYPES FOR ROUTINE ENTRANCE PIPE WHERE S IS 35" OR LESS AND HEIGHT OF COVER 15' OR LESS.

INSTALLATION OF PIPE CULVERTS AND STORM SEWERS GENERAL NOTES

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE 302 303 — NEW 1/04 — 107.00




** CONTACT MS. UTILITY BEFORE YOU DIG: 1-800-257-7777

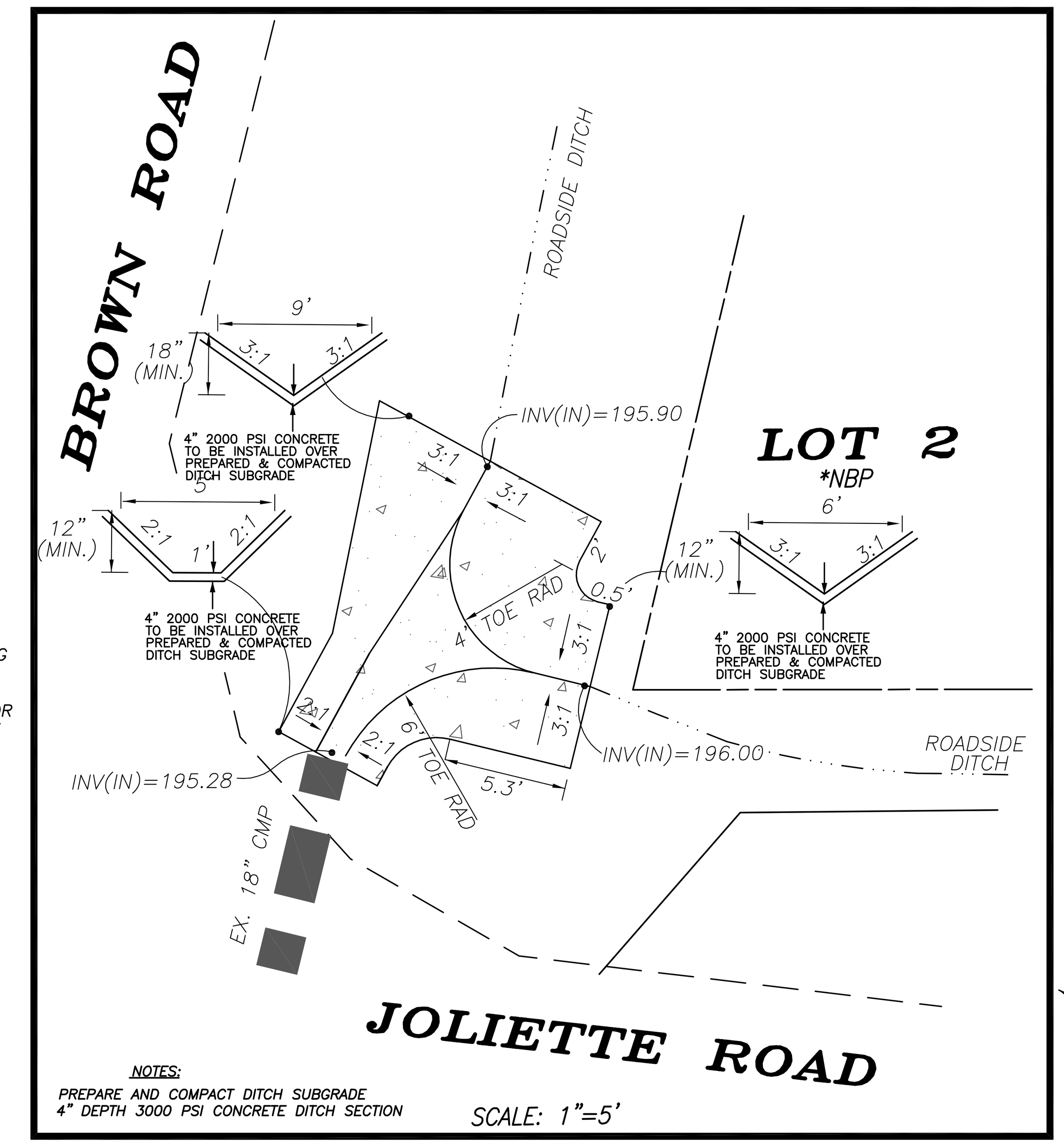
## *SEWER AND WATER NOTES*

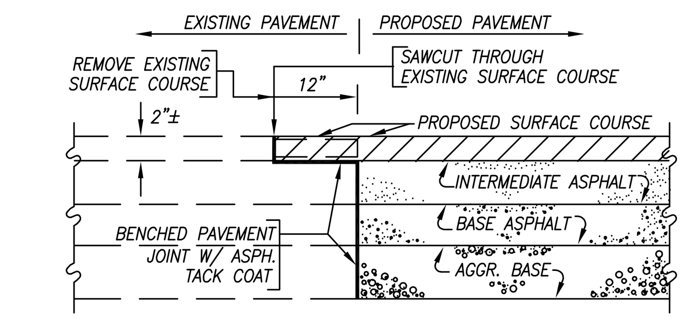
1. ALL MATERIALS FOR SEWER AND WATER SYSTEMS SHOWN SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST APPLICABLE SPECIFICATIONS OF CHESTERFIELD COUNTY.
2. ALL WORK WILL BE SUBJECT TO INSPECTION BY DESIGNATED COUNTY OFFICIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CHIEF INSPECTOR AT 748-1576, 48 HOURS PRIOR TO START OF WORK.
3. MINIMUM CLEAR COVER FOR ALL WATER PIPES SHALL BE 3.5'.
4. MINIMUM DEPTH FOR PVC SEWER MAIN IN STREET SHALL BE 6.0'.
6. ALL EASEMENTS ARE AS SHOWN.
7. SEWER PIPE IS EITHER PVC OR DUCTILE IRON, AS SPECIFIED ON PROFILE SHEET. ALL SEWER JOINTS SHALL BE CLASS "A", SEE DETAIL ON THIS SHEET FOR PROPER PIPE BEDDING.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF PROPER TOP ELEVATIONS BEFORE CONSTRUCTING MANHOLES.
9. CONTRACTOR SHALL INSTALL 6" SEWER SERVICE CONNECTIONS TO ALL LOTS (RIGHT-OF-WAY LINE OR EDGE OF EASEMENT) AS SHOWN.
10. CONTRACTOR WILL INSTALL WATER SERVICE CONNECTIONS AND METER BOXES TO LOT CORNERS WHERE DESIGNATED ON PLANS.
11. THE SURVEYOR MUST CERTIFY THAT THE ROADS ARE WITHIN 6" OF SUBGRADE BEFORE WATER LINE CONSTRUCTION CAN BEGIN.
12. SEWER GRADES ARE BASED ON U.S.C. AND G. S. DATUM.
13. THE CONTRACTOR SHALL INCLUDE IN THE APPLICABLE BID PRICE, THE COST OF LOCATING AND UNCOVERING ALL SEWER MANHOLES AND WATER VALVE BOXES AFTER SURFACE TREATMENT OF THE ROADS AND TO ADJUST THEM TO FINAL ROAD GRADE IF NECESSARY. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR CLEANING OUT ALL SEWER LINES FOR FINAL INSPECTION. IF NECESSARY, THE CONTRACTOR SHALL BE RESPONSIBLE TO SET FIRE HYDRANTS SO THAT NOZZLES ARE ABOVE EXISTING GROUND SUFFICIENTLY TO PERMIT HOSE ATTACHMENT.
14. THE DEVELOPER WILL FURNISH LINE AND GRADE STAKES. THE CONTRACTOR WILL BE RESPONSIBLE FOR THEIR PRESERVATION AND IF ANY ARE CARELESSLY OR WILLFULLY DISTURBED, THE COST OF REPLACING THEM WILL BE CHARGES AGAINST THE CONTRACTOR.
15. THE CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS GOVERNING CONSTRUCTION, DEMOLITION AND ALL EXCAVATION AS ADOPTED BY THE SAFETY CODES COMMISSION OF THE COMMONWEALTH OF VIRGINIA, 1996 AMENDED EFFECTIVE 1971.
16. SEE CONSTRUCTION NOTES NO. 3, 16 AND 33, THIS SHEET.
17. ALL WATER SERVICES WILL BE COPPER, TYPE K, DRAWN TUBING.
18. BACKWATER VALVES TO BE INSTALLED IN ALL HOUSES WHERE THE FINISHED FLOOR ELEVATION IS LOWER THAN THE UPGRADE MANHOLE.
19. CONTRACTOR SHALL USE MECHANICAL HOLE CUTTER AND AN APPROVED SADDLE WHEN TAPPING THE EXISTING SEWER LINE.
20. THE CONTRACTOR SHALL VERIFY THE INVERTS OF EXISTING MANHOLES, GASLINES AND OTHER EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.

# VDOT INSPECTION NOTES

1. CONTACT V.D.O.T. TO SCHEDULE A SUBGRADE INSPECTION 24 HOURS PRIOR TO PLACING AGGREGATE BASE UNDER BITUMINOUS.
2. CONTACT V.D.O.T. TO SCHEDULE AN INSPECTION OF THE AGGREGATE BASE FOR THICKNESS, LINE, GRADE AND COMPACTION 24 HOURS PRIOR TO PLACING THE BITUMINOUS PAVING COURSE(S).
3. CBR TESTS MUST BE APPROVED BY V.D.O.T. PRIOR TO PLACING THE AGGREGATE BASE COURSE.
4. ALL ROADSIDE DITCHLINES WHICH HAVE NOT ESTABLISHED A GOOD CATCH BY STATE ACCEPTANCE WILL BE PAVED PER CURRENT V.D.O.T. CRITERIA AT THE CONTRACTOR'S EXPENSE.
5. THE PLACEMENT OF SUBGRADE UNDERDRAINS, IF NECESSARY, WILL BE DETERMINED BY V.D.O.T. DURING THE SUBGRADE INSPECTION.

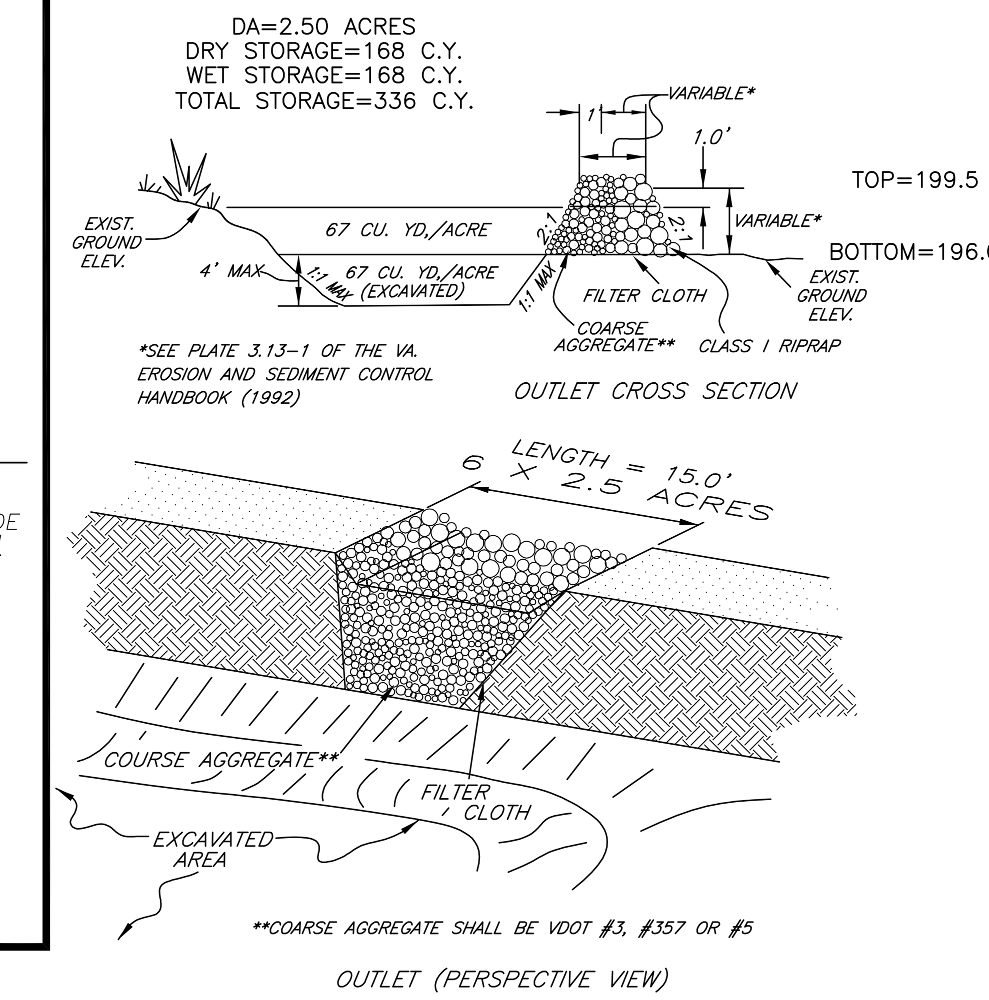
## *CONCRETE FLUME DETAIL*




NOTE: PROPOSED PAVEMENT MUST TIE IN WITH EXISTING PAVEMENT

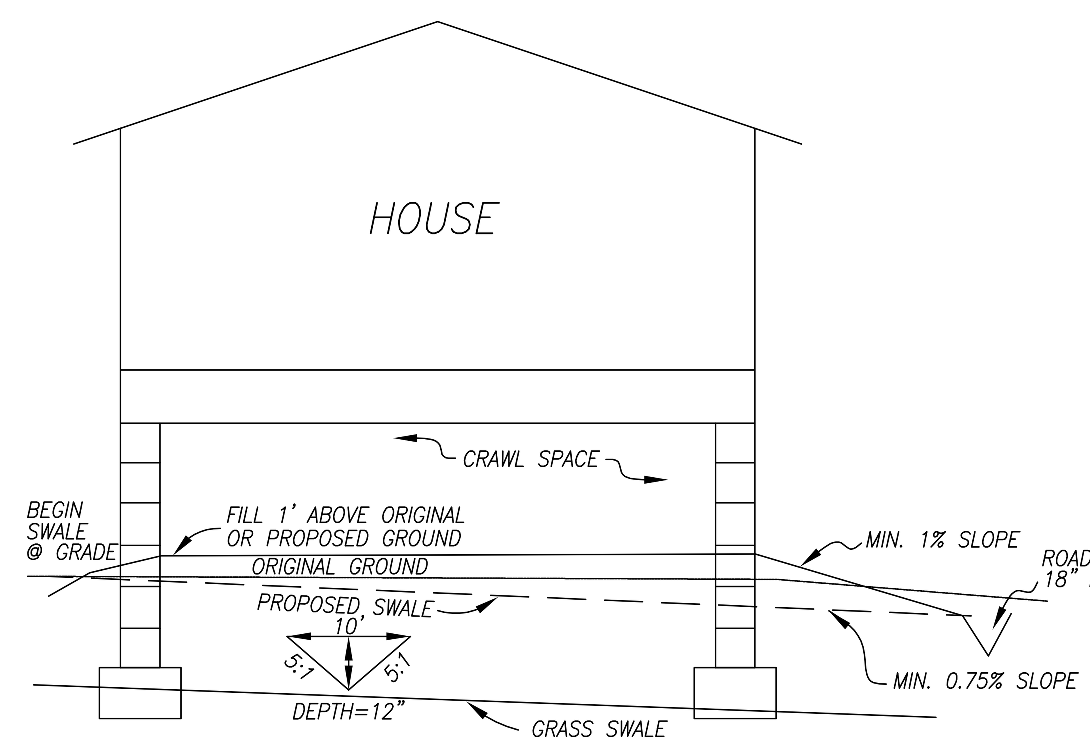
## *PAVEMENT JOINT DETAIL*




## TEMPORARY SEDIMENT TRAP

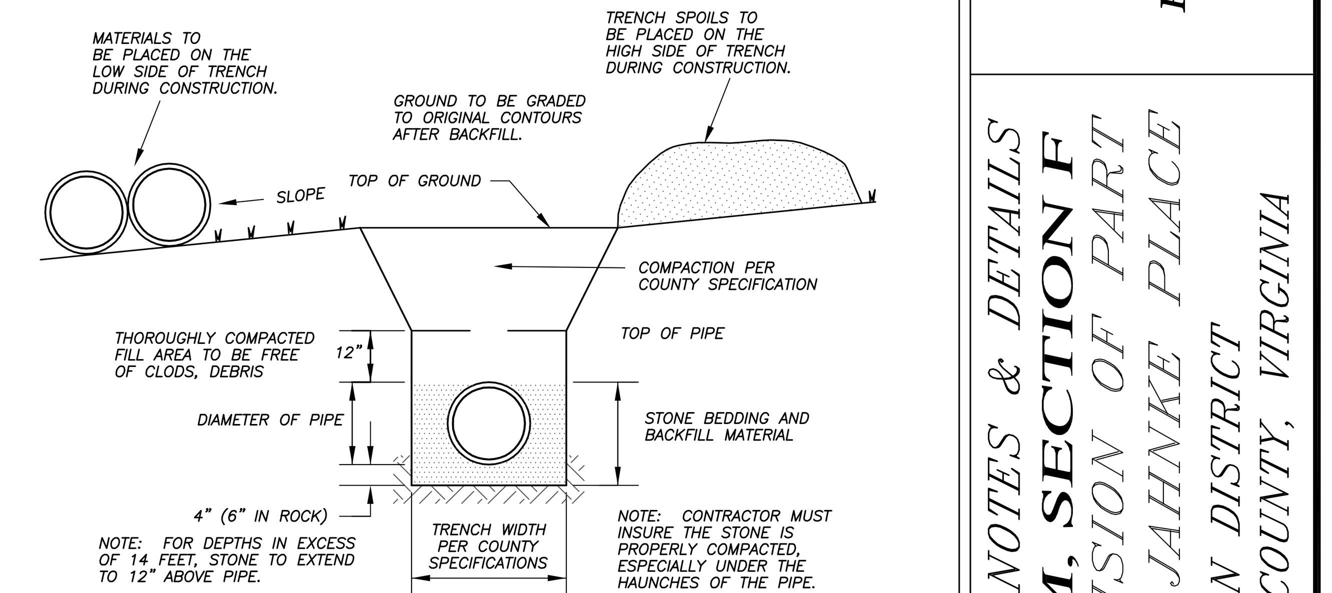
STD. & SPEC. 3.13

## *MINIMUM CRAWL SPACE ELEVATION DETAIL*

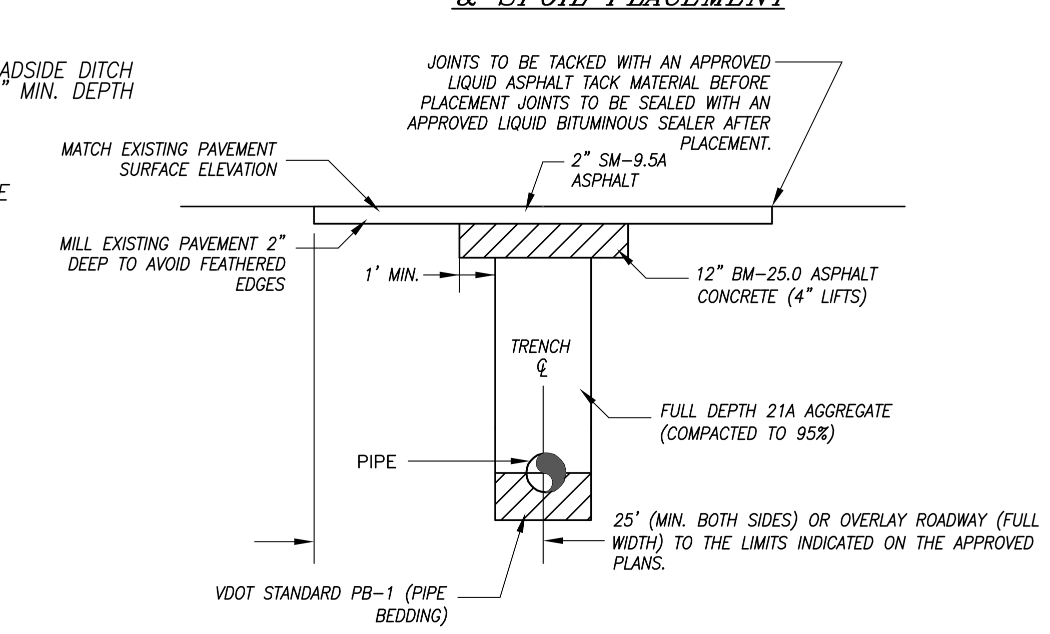



NOT TO SCALE

NOTE:
1. CRAWL SPACE ELEVATIONS SHALL BE CONSTRUCTED A MINIMUM OF 1' ABOVE ORIGINAL OR PROPOSED GRADE.




## *BEDDING, BACKFILL AND TRENCH & SPOIL PLACEMENT*




## *BEDDING, BACKFILL AND TRENCH*

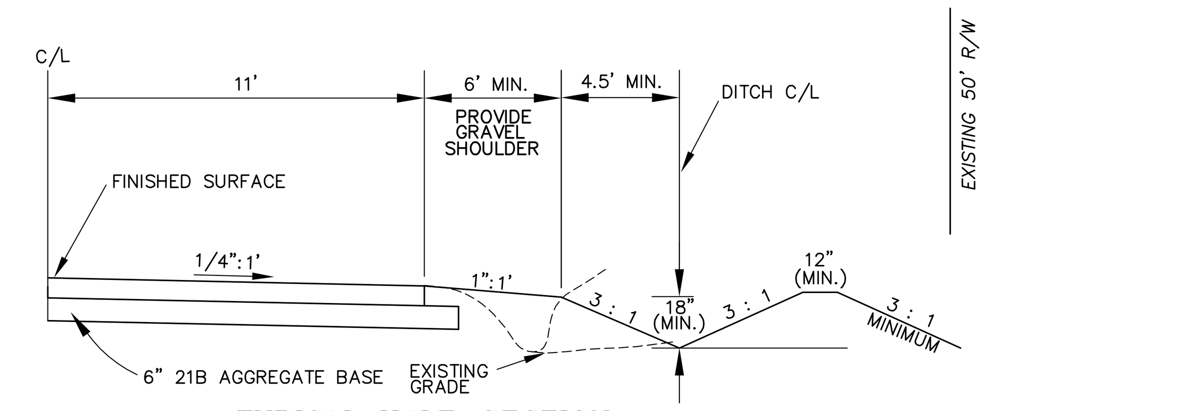
NOTES:

ALL THE BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH CURRENT VDOT STANDARDS AND SPECIFICATIONS.

WHENEVER THE PAVEMENT IS PERMITTED TO BE CUT, NOT OVER ONE-HALF OF THE ROADWAY SHALL BE DISTURBED AT ONE TIME. THE FIRST OPENING SHALL BE COMPLETELY RESTORED TO SATISFACTORY, TRAVELABLE CONDITION BEFORE THE SECOND HALF CAN BE OPENED.

IF THE OPEN CUT AREA IS GREATER THAN 16 SQ FT. THEN THE PERMITTEE SHALL MILL AND RESURFACE ALL (ASPHALT) CONCRETE ROADWAY: AND RESURFACE ALL OTHER ROADWAY WITH LIKE MATERIAL THAT IS EXISTING FOR A DISTANCE OF 25 FEET ON EACH SIDE OF THE DISTURBED AREA FROM EDGE-OF-PAVEMENT TO EDGE-OF PAVEMENT OR AS INDICATED ON THE APPROVED PLANS.

A GEOTECHNICAL ENGINEER SHALL ASCERTAIN THE CAUSE AND CERTIFY THE METHOD FOR ALL PAVEMENT STRUCTURE FAILURES AND BE PRESENT DURING BACKFILL OPERATIONS TO CERTIFY THE AGGREGATE HAS BEEN INSTALLED AT (95%) COMPACTION RATE. WHERE THE PAVEMENT IS DISTURBED OR DEEMED WEAKENED IN ITS ENTIRETY OR SUCH PORTIONS OF IT AS DEEMED DESIRABLE BY THE DEPARTMENT, SHALL BE RESTORED OR REPLACED IN A MANNER, WHICH IS SATISFACTORY TO THE DEPARTMENT'S RESIDENT ENGINEER OR HIS/HER REPRESENTATIVE.

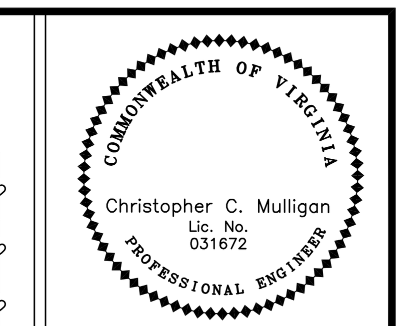



## *TYPICAL HALF-SECTION*

SOUTHBOUND JOLIETTE ROAD
NORTHBOUND BROWN ROAD

## *ROAD CLASSIFICATION CHART*

| ROAD NAME | STATION | VPD | PAVEMENT WIDTH (A) | EXISTING PAVEMENT SM-2A | BM-25.0 | 21B | FUNCTIONAL CLASSIFICATION |
|---|---|---|---|---|---|---|---|
| BROWN ROAD | 18+75±-INTERSECTION | 180 | 11.0' | 2" | | 6" | URBAN LOCAL |
| JOLIETTE ROAD | 10+00 - 14+80± | 70 | 11.0' | 2" | | 6" | URBAN LOCAL |




DESIGNED BY: C.C.M.
DRAWN BY: K.M.C.
CHECKED BY: C.C.M.

PM
POTTS, MINTER, AND ASSOCIATES P.C.
Engineers, Land Surveyors, Land Planners
3520 S. Courthouse Road Richmond, Va. 23236
Phone: (804) 745-2876 Fax: 745-9571

CONSTRUCTION NOTES & DETAILS
**SOUTHAM, SECTION F**
A RESUBDIVISION OF PART OF LOT 37, JAHNKE PLACE
MIDLOTHIAN DISTRICT
CHESTERFIELD COUNTY, VIRGINIA

REVISIONS

| DATE: | REMARKS: |
|---|---|
| 11/29/10 | PER COUNTY COMMENTS |
| 02/23/11 | COMMENTS/DITCH PROFILE |
| 03/24/11 | DETAIL/MS-19 |

DATE: OCTOBER 29, 2010
SHEET NO.: 7 OF 9
SCALE: AS SHOWN
JOB NO.: 1007-06

COUNTY PROJ. 10-0193