



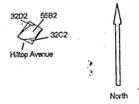
SOIL TECH, INC.  
14630-F FLINT LEE ROAD  
CHANTILLY, VA 20151  
(703) 631-9647  
(703) 631-2166-FAX



Soil Evaluation for Construction of Additions & or Accessory Structures in an unmapped Soils Area

Requested By: Pat Kessler/GJB Engineering  
Proposed Use: Residential  
Location: 8324 Hilltop Avenue, Vienna  
Evaluation By: W.F. Sledjeski, P.E.S.S., VA#29  
Map No(s): 39-3-0010-19B  
Date: 5/28/2004

2. SOIL MAP Physiographic Province: Fall Zone



Soil Boundary SOILS MAP Scale 1"=500'

Map Legend Slope Symbols Erosion Symbols

Soil Map Symbol: 55B2  
Soil Number: 55  
Slope: B  
Erosion: 2

A: 0-2% Slope  
B: 2-7%  
C: 7-14%  
D: 14-25%  
E: 25% and Greater

1: Soil Accumulation  
2: No Erosion  
3: Slight Erosion  
4: Moderate Erosion  
5: Severe Erosion

SOIL MAP SYMBOL	SOIL SERIES NAME	SLOPE RANGE %	PROBLEM CLASS	ESTIMATED% OF SITE
32C2	Fairfax Silt Loam	7 - 14	B	10
32D2	Fairfax Silt Loam	14 - 25	B	15
55B2	Glenelg	2 - 7	C	75

POTENTIAL SOIL PROBLEMS	YES/NO	SOIL NO(S)
Slope Instability	N	
Marginal to Low Bearing Capacity	Y	32
High Seasonal Ground Water	Y	32
High Shrink-Swell Clays	N	
Poor Surface Drainage	N	
Shallow Depth to Bedrock	N	
High Erodibility	Y	55
Flood Plain (Alluvial)	N	
Poor Infiltration/Drainfield Potential	Y	32
Hydric Soils Potential Wetlands	N	

GEOTECHNICAL REQUIREMENTS

Fairfax (32C2,D2) is a type B soil typically requiring foundation drainage systems for subsurface excavations due to seasonal high water tables. The requirement for a geotechnical report can be rescinded if the construction plans include adequate design for foundation drainage. For specific types of construction refer to the D.E.M. chart - REQUIREMENTS FOR BUILDING PERMITS WHEN ADDING TO/OR MODIFYING STRUCTURES IN PROBLEM SOILS. (D.E.M. - Site Permits)

Glenelg (55B2) is a type C soil having good potential for residential development. This soil is not considered a problem soil and does not require a Geotechnical Report for residential construction in accordance with the Fairfax County PFM.

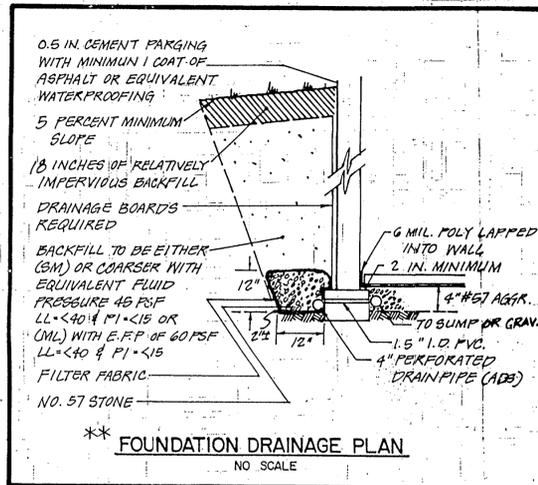
DESCRIPTION OF SOIL CHARACTERISTICS

(32C2,D2) Fairfax  
Moderately well to poorly drained, thin-bedded sandy and clayey fluvial sediments underlain by residual soils from schist and gneiss. Rounded quartz gravel and cobbles are common throughout.

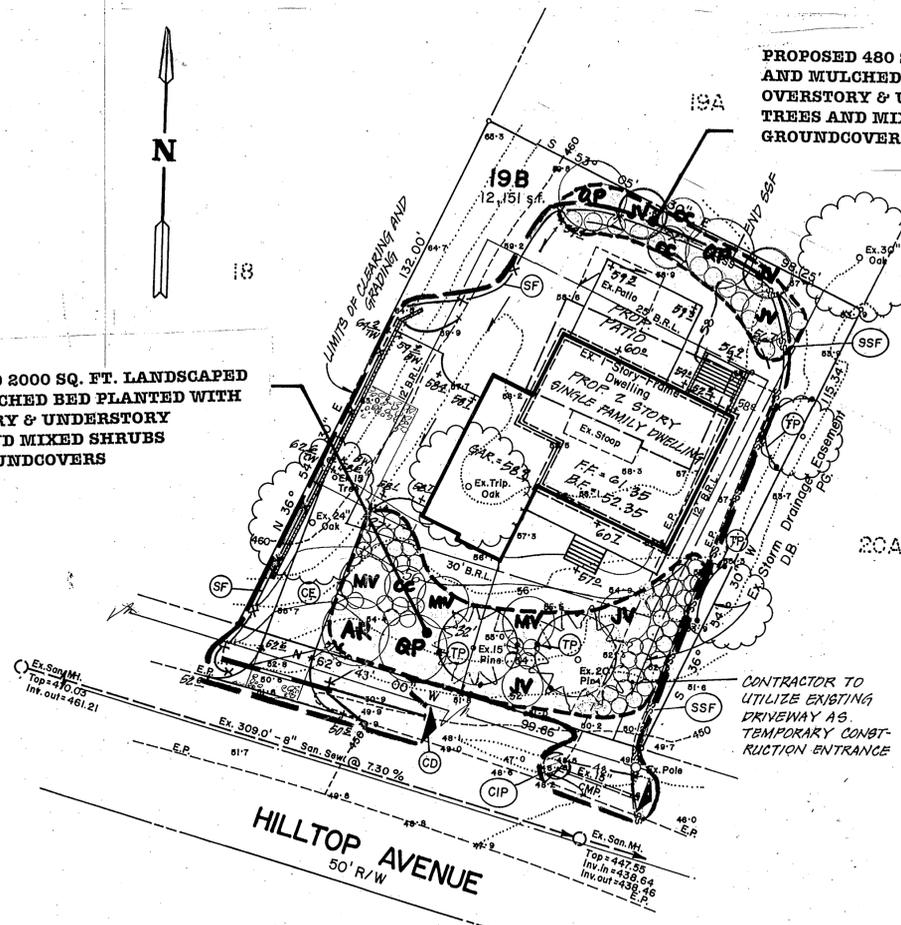
(55B2) Glenelg  
Deep, well-drained, silty and sandy soils on upland ridges and sideslopes developed from weathered mica schist bedrock. The depth to a ground water table and poorly weathered bedrock is generally more than 10 feet.

NOTE:  
This report and the accompanying soil map are based on a site investigation of the property. Soil characteristics, descriptions and potential problems are based on the site conditions at the time of the investigation. Any disturbance that drastically alters the original site conditions may affect the interpretations of this report.

Construction adjacent to existing structures may encounter uncontrolled fill or soft soils due to prior site grading, basement or foundation construction.



PROPOSED 2000 SQ. FT. LANDSCAPED AND MULCHED BED PLANTED WITH OVERSTORY & UNDERSTORY TREES AND MIXED SHRUBS AND GROUNDCOVERS



IMPERVIOUS AREA COMPUTATION:

WATERSHED: ACCOTINK CREEK  
TOTAL LOT AREA: 12,151 SQ. FT.  
PROP. SF DWELLING W/ GARAGE: 2,489 SQ. FT.  
PROP. ASPHALT DRIVEWAY: 1,982 SQ. FT.  
TOTAL IMPERVIOUS AREA: 4,471 SQ. FT. (36.80% > 18.00%)  
PROPOSED IMPERVIOUS AREA EXCEEDING 18%: 2,284 SQ. FT. OR 0.0524 ACRE

OVERSTORY TREE REQUIREMENT: 0.0524 x 100 = 5.24 OR 6 TREES  
UNDERSTORY TREE REQUIREMENT: 0.0524 x 200 = 10.48 OR 11 TREES  
SHRUBS AND GROUND COVER REQUIREMENTS: 0.0524 x 1089 = 57.10 OR 58 SHRUBS

\* CBAY REQUIREMENTS/BMP WATER QUALITY CONTROL WAIVER REQUIRED AND SUBMITTED TO FAIRFAX COUNTY FOR APPROVAL

CERTIFICATION FOR WATER QUALITY AND LANDSCAPE DESIGN ONLY



LANDSCAPING NOTES:

- CONTRACTOR/OWNER RESERVES THE RIGHT TO SUBSTITUTE SUPPLEMENTAL LANDSCAPING IN ACCORDANCE WITH THE GUIDELINES SET FORTH IN THE COUNTY APPROVAL LETTER SHOWN HEREON AND WITH THE APPROVAL OF FAIRFAX COUNTY BUILDING INSPECTOR AND URBAN FORESTRY BRANCH. IF CHANGES ARE IMPLEMENTED, CONTRACTOR/OWNER SHALL COMPLETE AND SUPPLY REVISED TREE COVER COMPUTATIONS DEMONSTRATING CONTINUED CONFORMANCE WITH REQUIRED SUPPLEMENTAL LANDSCAPING TO THE INSPECTOR PRIOR TO REQUEST FOR LANDSCAPING MATERIAL AND/OR LOCATION MODIFICATION.
- LANDSCAPING PLANT MATERIAL AND INSTALLATION SPECIFICATIONS SHALL CONFORM TO SECTION 12, FAIRFAX COUNTY - PUBLIC FACILITIES MANUAL, SEDIMENT & EROSION CONTROL MEASURES, IF NECESSARY, FOR LANDSCAPING INSTALLATION TO BE DETERMINED BY FAIRFAX COUNTY INSPECTOR DURING CONSTRUCTION.
- ALL CONTRACTORS SHALL ADHERE TO THE REQUIREMENTS FOR TREE PRESERVATION AND PROTECTION GUIDELINES AS SET FORTH IN VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND FAIRFAX COUNTY PUBLIC FACILITIES MANUAL. ALL TREE PROTECTION MEASURES ARE TO BE INSTALLED IN CONJUNCTION WITH THE INSTALLATION OF THE EROSION AND SEDIMENT CONTROL DEVICES AND PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- ANY PLANT MATERIAL SHALL MEET OR EXCEED THE SPECIFICATIONS OF FEDERAL, STATE AND COUNTY LAWS REQUIRING INSPECTION FOR PLANT DISEASE AND INSECT CONTROL.
- THE CONTRACTOR SHALL REMOVE ALL DEAD WOOD OR SUCKERS AND ALL BROKEN OR BADLY BRUISED BRANCHES, IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERYMEN'S STANDARDS, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT.
- CALL MISS UTILITY BEFORE BEGINNING ANY PLANTING OPERATIONS.
- ALL PROPOSED TREES SHALL NOT BE LOCATED WITHIN 5 FEET OF A UTILITY EASEMENT OR UTILITY RIGHT-OF-WAY PER FAIRFAX COUNTY PFM REQUIREMENTS.

KEY	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	PACKAGING	TOTAL (ft³)	TYPE	REMARKS
QP	QUERCUS PALUSTRIS	PIN OAK	3	1"	B & B	450	OVERSTORY	
AR	ACER RUBRUM	RED MAPLE	1	2"	B & B	200	OVERSTORY	
JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	5	8"	CONTAINER	500	UNDERSTORY	
MV	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	3	2"	B & B	300	UNDERSTORY	
CC	CERCIS CANADENSIS	RED BUD	3	1"	B & B	225	UNDERSTORY	
IV	ILEX VERTICILLATA	WINTERBERRY	33	24"	1 GALLON	0	SHRUB	
CA	CLETHRA ALNIFOLIA	SWEET PEPPER-BUSH	12	24"	1 GALLON	0	SHRUB	
RP	R. PERICLYMENOIDES	WILD AZALEA	13	24"	1 GALLON	0	SHRUB	
VM	VINCA MINOR	PERIWINKLE	12		FLAT		GROUND	
SV	SECURIGERA VARIA	CROWN VETCH	10		FLAT		GROUND	
LM	LIRIOPE MASCARI	LILY TURF	50		1 QUART		GROUND	
DC	DESCHAMPSIA CESPITOSA	TUFTED GRASS	32		1 QUART		GROUND	
-----EXISTING PINE TREES-----			2				OVERSTORY	
TOTAL TREE COVER PROVIDED BY PLANTING=						1,675		

REVISIONS	
DATE	DESCRIPTION

**GJB Engineering, Inc.**  
P.O. Box 1214 Newington, VA. 22122  
phone: (703) 541-2000 fax: (703) 541-1047  
internet: www.gjbinc.com

PROJECT: **HILLTOP, LOT 19B**  
TITLE: **WATER QUALITY WAIVER AND LANDSCAPE PLAN**  
DISTRICT: PROVIDENCE TAX MAP: 39-3 ((10)) LOT 19B  
DATE: AUGUST 2004 ADDRESS: 8324 HILLTOP AVE.  
SCALE: AS SHOWN PROJECT MGR.: PATRICK M. KESSLER  
ZONE: R-3 BRL: FRONT-30' REAR-25' GJB FILE NO.: 768-HGP

**SHEET**  
2 OF 3



FAIRFAX COUNTY

DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES  
Land Development Services  
Environmental and Site Review Division  
12055 Government Center Parkway, Suite 535  
Fairfax, Virginia 22135-5353  
Phone 703-324-1720 • Fax 703-324-8359 • TTY 703-324-1877

VIRGINIA

September 20, 2004

Patrick M. Kessler, Project Manager  
GJB Engineering, Inc.  
P.O. Box 1214  
Newington, Virginia 22122

Subject: Hilltop Subdivision, Lot 19B, 8324 Hilltop Avenue, House Grading Plan Dated August, 2004, Tax Map #039-3-10-0019-B, Providence District

Reference: Water Quality Control Waiver #026937

Dear Mr. Kessler:

The referenced water quality control waiver has been received and reviewed for consistency with the Chesapeake Bay Preservation Ordinance (CBPO). The Director has determined that:

- The requested waiver to the criteria is the minimum necessary to afford relief.
- Granting the waiver will not confer upon the applicant any special privileges that are denied by the CBPO to other property owners who are subject to its provisions and who are similarly situated.
- The waiver request is in harmony with the purpose and intent of the CBPO and is not of substantial detriment to water quality.
- The waiver request is not based upon conditions or circumstances that are self-created or self-imposed.
- Reasonable and appropriate conditions are proposed that will prevent the allowed activity from causing a degradation of water quality.

Therefore, your request to waive the water quality control requirement of the CBPO on the subject site is hereby approved, subject to the following conditions:

- Establishment of a vegetated buffer area, consistent with the criteria of the CBPO Section 118-3-3(f), of at least 2285 contiguous square feet located in the lower portions of the site. The buffer area shall consist of at least 6 overstory trees, 11 understory trees, 57 shrubs, and groundcovers within a mulch bed. Plant materials shall be randomly placed to achieve a relatively even spacing throughout the buffer. All plants shall be native species to the degree practical and adaptable to site conditions.
- The existing trees within the mulch bed shall be preserved.
- A "super" silt fence shall be installed along the lower clearing and grading limits for this lot.
- No more land shall be disturbed than is necessary to provide for the single-family dwelling.
- Indigenous vegetation shall be preserved to the maximum extent possible.

This waiver in no way relieves you of any other CBPO requirement or any County drainage requirement, including adequacy of outfall, pro-rata share payments, etc.

This waiver shall automatically expire, without notice, 24 months after the date of this letter, unless the subject plan has been approved.

Please ensure that a copy of this letter is made a part of the subject plan.

If further assistance is desired, please contact Jeremiah Stonefield, Stormwater Engineer, Site Review East, Environmental and Site Review Division (ESRD), at 703-324-1720.

Sincerely,

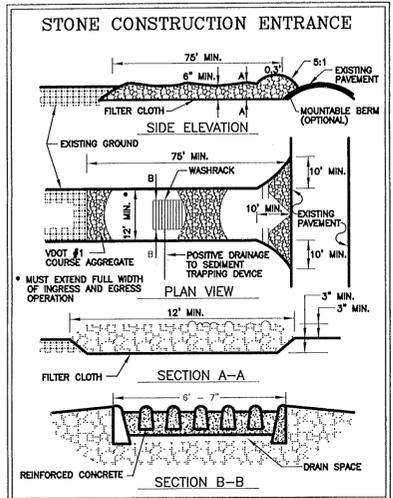
*Valerie Tucker*

Valerie Tucker  
Chief Stormwater Engineer  
Site Review East

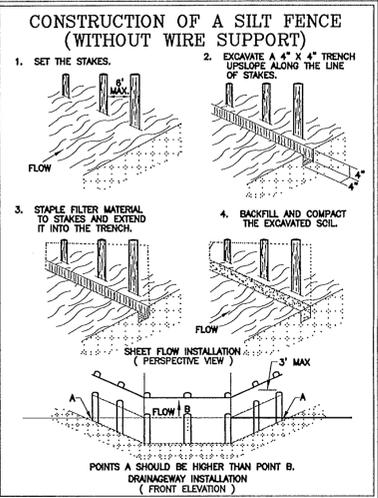
VT/jae

cc: Carl Bouchard, Director, Stormwater Planning Division, DPWES  
Hani Fawaz, Chief Site Review Engineer, Site Review East, ESRD, DPWES  
Jeremiah Stonefield, Stormwater Engineer, Site Review East, ESRD, DPWES  
Waiver File

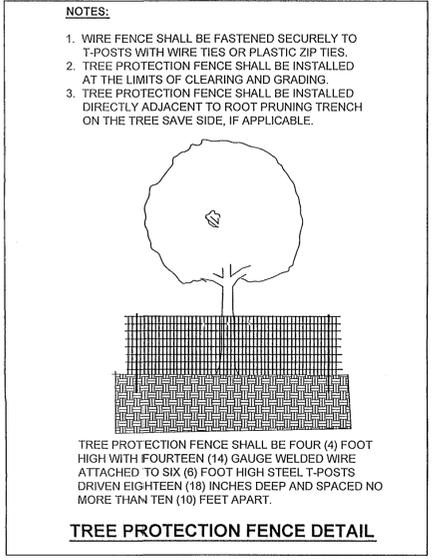
Application No. PA 92-P-036 Staff: C. Lewis  
APPROVED DEVELOPMENT PLAN  
(DP) (GDP) (CDP) (FDP)  
SEE OFFICER'S DATED 11-17-05  
Date of (BOE) (PC) approval 11-21-05  
Sheet 2 of 3



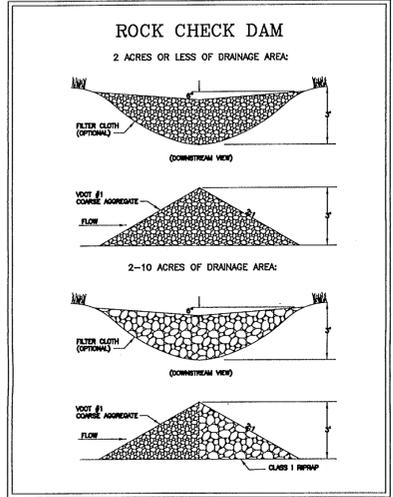
**CE CONSTRUCTION ENTRANCE**  
NOT TO SCALE



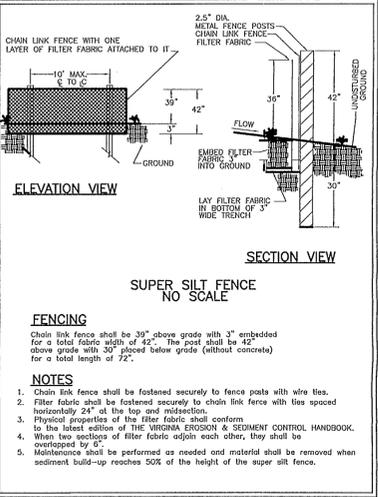
**SF SILT FENCE**  
NOT TO SCALE



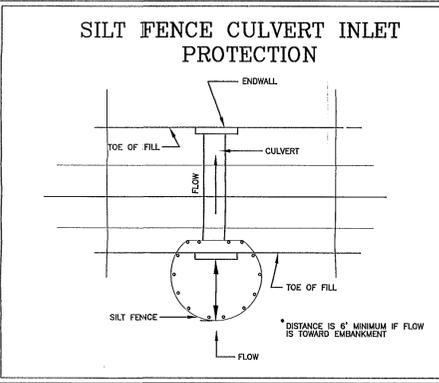
**TP TREE PROTECTION**  
NOT TO SCALE



**CD ROCK CHECK DAM**  
NOT TO SCALE



**SSF SUPER SILT FENCE**  
NOT TO SCALE



**CIP CULVERT INLET PROTECTION**  
NOT TO SCALE

**EROSION AND SEDIMENT CONTROL NARRATIVE**

**PROJECT DESCRIPTION**  
THIS PROJECT PROPOSES TO CONSTRUCT A PROPOSED TWO (2) STORY SINGLE FAMILY DWELLING WITH BASEMENT AND ATTACHED GARAGE. SITE IMPROVEMENTS ASSOCIATED WITH THE PROPOSED HOUSE CONSTRUCTION PROJECT INCLUDES ASPHALT PAVED DRIVEWAY, DOMESTIC WATER SUPPLY, PRIVATE SANITARY SEWER LATERAL AND OTHER ASSOCIATED CONSTRUCTION ACTIVITIES.

**EXISTING SITE CONDITION**  
THE PROJECT SITE IS APPROXIMATELY 0.28 ACRES (12,151 SQ. FT.) IN LAND AREA AND IS LOCATED AT 8324 HILLTOP AVE. IN PROVIDENCE DISTRICT.

**ADJACENT PROPERTY**  
THE EXISTING PROPERTY IS BORDERED BY RESIDENTIAL LOT ON BOTH SIDES AND IN THE REAR.

**OFF-SITE AREAS**  
STORMWATER CURRENTLY SHEET FLOWS ACROSS UPHILL LOTS AND PART OF THE RUNOFF CONTINUES ONTO ADJACENT LOT 20A. SEE COMPUTATIONS ON SHEET 1 DEMONSTRATING THE PROPOSED DRIVEWAY CULVERT IS ADEQUATE AND NON-EROSIVE.

**SOILS**  
SOILS WITHIN THE AREA OF THE PROPOSED PROJECT ARE CLASSIFIED AS PROBLEM CLASS "B & C" GOOD FOR FOUNDATION SUPPORT, BUT HIGH IN EROSION POTENTIAL. DUE TO THE POTENTIAL FOR HIGH EROSION WE ARE PROPOSING SUPER SILT FENCE ALONG THE ENTIRE LOWER REACHES OF THIS LOT. SEE SHEET 1 & 2 FOR DETAILED SOILS INFORMATION.

**CRITICAL EROSION AREAS**  
THERE ARE NO CRITICAL EROSION AREAS WITHIN THE LIMIT OF PROPOSED CONSTRUCTION. ALTHOUGH SINCE THE EROSION POTENTIAL IS HIGH, CONTRACTOR SHALL TAKE NECESSARY CARE AND EXTRA PRECAUTIONS DURING LAND DISTURBANCE WITHIN THE LIMIT OF DISTURBANCE AND SHALL ENSURE THAT THE EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED ARE PROPERLY PLACED AND INSTALLED AS SHOWN ON PLAN TO CAPTURE AND PREVENT SEDIMENTS FROM BEING CARRIED OR CONVEYED INTO THE LOWER REACHES OF THE SITE AND THE ADJACENT PROPERTIES.

**EROSION AND SEDIMENT CONTROL MEASURES**  
UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VSCBH), CURRENT EDITION.

- STRUCTURAL PRACTICES**
- CONSTRUCTION ENTRANCE - 3.02  
A TEMPORARY CONSTRUCTION ENTRANCE WITH A WASH RACK SHALL BE INSTALLED AT THE EXISTING HILLTOP AVENUE AS SHOWN ON PLAN TO ACCESS THE SITE. TEMPORARY CONSTRUCTION ENTRANCE 65' FEET LONG DUE TO PROXIMITY OF PROPOSED DWELLING EDGE OF PAVEMENT MUD AND DEBRIS SHALL BE WASHED FROM ALL CONSTRUCTION VEHICLES AND EQUIPMENTS BEFORE LEAVING THE CONSTRUCTION SITE AND ENTERING THE MAIN ROADWAY. WATER TRUCK SHALL BE USED IF PUBLIC WATER IS NOT AVAILABLE.
  - SILT FENCE/SUPER SILT FENCE - 3.05  
SILT FENCE AND SUPER SILT FENCE BARRIER SHALL BE INSTALLED IN THE LOWER SECTION OF THE CONSTRUCTION AREAS AS SHOWN TO PRECLUDE OR PREVENT SEDIMENT LADEN RUNOFF FROM SHEETFLOWING OVERLAND TO THE ADJACENT RESIDENTIAL PROPERTIES LOCATED DOWNSTREAM OF THE CONSTRUCTION SITE. (SEE TABLE 3.05-B PROVIDED ON THIS SHEET FOR PHYSICAL PROPERTIES OF THE FILTER FABRIC FOR SUPER SILT FENCE)
  - ROCK CHECK DAM - 3.20  
A TEMPORARY STONE OR ROCK CHECK DAM SHALL BE PROVIDED ACROSS THE LOWER SECTION OF THE PROPOSED PIPE CULVERT ACROSS THE ASPHALT DRIVEWAY TO REDUCE VELOCITY OF CONCENTRATED FLOWS, CATCH SEDIMENTS AND MITIGATE FURTHER EROSION.
  - CULVERT INLET PROTECTION - 3.08  
AN INLET PROTECTION SHALL BE PROVIDED AT THE INLET OF THE STORM SEWER CULVERT TO FILTER AND PREVENT SEDIMENTS FROM ENTERING AND ACCUMULATING IN THE INLET AREA. THIS CONTROL MEASURE SHALL ALSO PROVIDE EROSION CONTROL AND HELP DISSIPATE EXCESSIVE FLOW VELOCITY.
  - TEMPORARY TREE PROTECTION - 3.38  
TEMPORARY TREE PROTECTION SHALL BE INSTALLED TO PROTECT EXISTING MATURE TREES THAT SHALL REMAIN. NO MECHANICAL VEHICLES ARE PERMITTED TO CROSS OVER THE CRITICAL ROOT ZONE AS SPECIFIED IN THE PFM.

**SEQUENCE OF CONSTRUCTION**  
PHASE I  
ALL PHASE I SEDIMENT AND EROSION CONTROL DEVICES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING AND GRADING. CONTRACTOR SHALL INITIALLY CLEAR ONLY SUFFICIENT AREA AS NEEDED TO INSTALL PHASE I SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL INSTALL CONSTRUCTION ENTRANCE FROM HILLTOP AVE TO ACCESS THE CONSTRUCTION SITE. THE CONTRACTOR SHALL ACCESS THE CONSTRUCTION SITE ONLY FROM AND ACROSS THE CONSTRUCTION ENTRANCE. UPON COMPLETION OF THE CONSTRUCTION ENTRANCE, SILT FENCE/SUPER SILT FENCE AND TREE PROTECTION MEASURES SHALL BE INSTALLED AS SHOWN ON PLAN TO INTERCEPT SEDIMENT LADEN STORMWATER RUNOFF AND PROTECT THE EXISTING TREES AND VEGETATION TO BE PRESERVED, RESPECTIVELY.

AN INSPECTION OF THE PHASE I SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MADE BY THE FAIRFAX COUNTY INSPECTOR AT SUCH TIME AS THE DEVICES ARE COMPLETELY INSTALLED AND OPERATIONAL. FURTHER CLEARING AND GRADING OPERATIONS SHALL BE CONDUCTED ONLY AFTER PHASE I MEASURES HAVE MET THE APPROVAL OF THE COUNTY INSPECTOR.

PHASE II  
PHASE II SEDIMENT AND EROSION CONTROL DEVICES SHALL BE SEQUENTIALLY INSTALLED AS THE SITE PROPOSED IMPROVEMENTS ARE BROUGHT TO FINAL DESIGN GRADES. THE DEVELOPER/CONTRACTOR SHALL COMPLETELY ENSURE THAT NO SEDIMENTS FROM CONSTRUCTION ACTIVITIES ARE RELEASED TO SHEETFLOW OVERLAND INTO THE EXISTING ROADSIDE DITCH LOCATED ALONG HILLTOP AVE. MEASURES MUST INCLUDE INSTALLATION OF ADDITIONAL CONTROLS AT THE DIRECTION OF THE COUNTY INSPECTOR. PHASE II CONTROLS SHALL OPERATE FOR THE REMAINDER OF THE PROJECT AND UNTIL SUCH TIME AS PERMANENT VEGETATION STABILIZATION IS ACHIEVED. APPROVAL BY THE FAIRFAX COUNTY INSPECTOR IS REQUIRED PRIOR TO ANY REMOVAL OF PHASE II CONTROLS.

**TEMPORARY AND PERMANENT SEEDING**  
DURING CONSTRUCTION ALL DISTURBED AREAS REQUIRING TEMPORARY SEEDING SHALL BE COMPLETED USING A FAST-GERMINATING TEMPORARY GRASS PER VSCBH STD. & SPEC. 3.31. ALL DISTURBED AREAS ON THE SUBJECT LOTS SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING THE COMPLETION OF THE FINAL GRADING. SEEDING SHALL BE COMPLETED USING KENTUCKY 31 TALL RESCUE ACCORDING TO VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (CURRENT EDITION), STD. & SPEC. 3.32. SEEDING SHALL BE PROTECTED USING STRAW MULCH WITH TACK.

**STORMWATER MANAGEMENT**  
FOR PRE AND POST DEVELOPMENT IMPERVIOUS ANALYSIS AND "C" FACTOR COMPUTATIONS, REFER TO SHEET #1 OF THIS PLAN SET. SEE DRAINAGE NARRATIVE ON SHEET 1 STATING THAT THERE IS AN ADEQUATE OUTFALL.

**MAINTENANCE SCHEDULES**  
ALL DEVICES SHALL BE VISUALLY INSPECTED DAILY (ESPECIALLY AFTER A HEAVY RAINFALL) BY THE SITE SUPERINTENDENT OR HIS REPRESENTATIVE. ANY DAMAGED DEVICE SHALL BE REPAIRED AS A FIRST ORDER PRIORITY AND SHALL BE FULLY OPERATIONAL BY THE END OF THAT DAY. ANY DEVICE THAT REQUIRES DRAINING SHALL BE DONE SO AS TO PREVENT THE ACCIDENTAL DISCHARGE OF TRAPPED SEDIMENTS. ALL SILT TRAPPING FACILITIES SHALL BE CLEANED OUT AT 50% TRAP CAPACITY AND SEDIMENT SHALL BE DISPOSED OF BY SPREADING ON SITE (OR HAULING AWAY IF NOT SUITABLE FOR FILL).

**EROSION AND SEDIMENT LAND CONSERVATION NOTES**

- (SECTION 11-0406)
- 11-0406.1 (38-93-PFM) NO DISTURBED AREA WHICH IS NOT ACTIVELY BEING WORKED SHALL REMAIN DENUDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR.
  - 11-406.2 ALL E&S CONTROL MEASURES APPROVED WITH THE PHASE I E&S CONTROL PLAN SHALL BE PLACED AS THE FIRST STEP IN GRADING.
  - 11-406.3 (38-93-PFM) ALL STORM AND SANITARY SEWER LINES NOT IN STREETS SHALL BE SEEDED AND MULCHED WITHIN 7 DAYS AFTER BACKFILL. NO MORE THAN 500' (150M) SHALL BE OPEN AT ANY ONE TIME.
  - 11-406.4 (38-93-PFM) ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES SHALL BE COMPACTED, SEEDED AND MULCHED WITHIN 7 DAYS AFTER BACKFILL.
  - 11-406.5 (38-93-PFM) ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY (AS SOON AS POSSIBLE BUT NO LATER THAN 48 HR) AFTER COMPLETION OF GRADING. STRAW OR HAY MULCH IS REQUIRED. ALL SOIL STOCKPILES SHALL BE SEEDED AND MULCHED WITHIN 7 DAYS AFTER GRADING.
  - 11-406.6 DURING CONSTRUCTION, ALL STORM SEWER INLETS SHALL BE PROTECTED BY SEDIMENT TRAPS, MAINTAINED AND MODIFIED DURING CONSTRUCTION PROGRESS AS REQUIRED.
  - 11-406.7 ANY DISTURBED AREA NOT COVERED BY § 11-0406.1 AND NOT PAVED, SODDED OR BUILT UPON BY NOVEMBER 1, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED IMMEDIATELY WITH HAY OR STRAW MULCH AT THE RATE OF 2 TONS/ACRE (4483 KG/HA) AND OVER-SEED BY APRIL 15.
  - 11-406.8 AT THE COMPLETION OF ANY PROJECT CONSTRUCTION AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED.
    - UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
      - NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
      - EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
      - EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH A APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OF OFF-SITE PROPERTY.
      - RE-STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
      - APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

**EROSION CONTROL NOTES**

- NO AREA SHALL BE LEFT DENUDED FOR A PERIOD LONGER THAN 14 DAYS EXCEPT FOR THOSE PORTIONS OF THE SITE THAT WILL BE CONTINUOUSLY WORKED BEYOND 14 DAYS, OR THOSE AREAS IDENTIFIED IN NOTE 2 BELOW. IN THE EVENT SUCH MAXIMUM PERIOD IS EXCEEDED AND ANY AREAS REMAIN EXPOSED WITHOUT APPROPRIATE COVER LONGER THAN 14 DAYS, THE COUNTY WILL (IN THE EVENT THAT THE DEVELOPER OR OWNER DOES NOT) INSTALL THE NECESSARY TEMPORARY OR PERMANENT VEGETATIVE STABILIZATION MEASURES TO ACHIEVE ADEQUATE EROSION AND SEDIMENT CONTROL.
- CONTRACTOR SHALL ENSURE THAT THE 3H:1V SLOPES ARE NOT WORKED DURING PERIODS OF INCLEMENT WEATHER OR LEFT DENUDED FOR A PERIOD LONGER THAN 7 DAYS EXCEPT FOR THOSE AREAS THAT WILL BE CONTINUOUSLY WORKED BEYOND 7 DAYS.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL CONFORM TO COUNTY CODE AND THE CURRENT EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND SHALL BE SUBJECT TO FIELD REVISION BY, AND FINAL APPROVAL OF THE COUNTY INSPECTOR.
- A FILTER FABRIC UNDERLINER SHALL BE INSTALLED UNDER THE CONSTRUCTION ENTRANCE AGGREGATE PER VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK SPECIFICATIONS.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY (AS SOON AS POSSIBLE BUT NO LATER THAN 48 HOURS) AFTER COMPLETION OF GRADING. STRAW OR HAY MULCH IS REQUIRED.
- PROVISION FOR DUST CONTROL SHALL BE MADE IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK STD. AND SPEC. 3.39.
- ANY DISTURBED AREA NOT COVERED BY NOTE 1 ABOVE AND NOT PAVED, SEEDED OR BUILT UPON BY NOVEMBER 1, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED IMMEDIATELY WITH HAY OR STRAW MULCH AT THE RATE OF 2 TON/ACRE, TACKED, AND OVERSEED BY APRIL 15.

**FAIRFAX COUNTY PRIORITY RATING FORM FOR E&S CONTROL**

Project Name: HILLTOP, LOT 19B Project Number: \_\_\_\_\_  
 Tax Map: 39-3-((10)),19B Evaluator: PATRICK KESSLER Date: 08/20/04

**A** Percentage of denuded area to total site area:  
 > 60% [X] 5  
 31% to 60% [ ] 3  
 10% to 30% [ ] 1  
 If the denuded area is greater than 10 acres, the project is initially rated a high priority.

**B** Watercourse crossing:  
 Yes [X] 5  
 No [ ] 0  
 \* If yes, project is initially rated a high priority.

**C** Distance of denuded area to Downstream Adjacent Property:  
 < 50 feet [X] 5  
 50 to 150 feet [ ] 3  
 > 150 feet [ ] 0

**D** Distance of any portion of the denuded area to a Natural Watercourse:  
 < 50 feet [X] 5  
 50 to 150 feet [ ] 3  
 > 150 feet [ ] 0

**E** Minimum Vegetative Buffer (Trees, Shrubs, Grasses & Other Plants):  
 < 50 feet [X] 0  
 50 to 150 feet [ ] -3  
 > 150 feet [ ] -5  
 Vegetation in Resource Protection Areas are not to be included as vegetative buffers for this application.

**F** Distance between the site outfall and any Downstream Wet Pond, Wet Land, Park Land or other Land Deemed Environmentally Sensitive by the Director:  
 < 2,500 feet [X] 5  
 2,500 to 5,000 feet [ ] 3  
 > 5,000-feet [ ] 0

**G** Critical slopes within 50 feet of Adjacent Property:  
 - Are there any slopes of 0% to 7%, greater than or equal to 300 feet in length, or:  
 - Are there any slopes of 7% to 15%, greater than or equal to 150 feet in length, or:  
 - Are there any slopes greater than 15% and greater than or equal to 75 feet in length  
 If Yes to any above [ ] 5  
 Not applicable if critical slope is > 50 feet from adjacent property [X] 0

**H** Soil Erodibility (Based on K Factor):  
 High (= or > 0.37) [X] 5  
 Medium (0.24 to 0.36) [ ] 3  
 Low (< 0.24) [ ] 1

TOTAL OVERALL RATING: 20

Priority (Mark with an X)  
 High [ ]  
 Medium [X]  
 Low [ ]

PROJECT PRIORITY LEVEL: MEDIUM PRIORITY

\*\* Reserved for Fairfax County Use: \*\*  
 Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Plan Reviewer

**TABLE 3.05 - B**  
**PHYSICAL PROPERTIES OF FILTER FABRIC IN SILT FENCE**

PHYSICAL PROPERTY	TEST	REQUIREMENTS
FILTERING EFFICIENCY	ASTM 5141	75% (MINIMUM)
TENSILE STRENGTH AT 20% (MAX.) ELONGATION*	VTM-52	EXTRA STRENGTH - 50LBS./LINEAR INCH (MINIMUM) STANDARD STRENGTH- 30LBS./LINEAR INCH (MINIMUM)
FLOW RATE	ASTM 5141	0.2 GAL./SQ.FT./MINUTE (MINIMUM)
ULTRAVIOLET RADIATION STABILITY %	ASTM-G-26	90% (MINIMUM)

\*REQUIREMENTS REDUCED BY 50% AFTER SIX MONTHS OF INSTALLATION.

REVISIONS	
DATE	DESCRIPTION

**GJB Engineering, Inc.**  
 P.O. Box 1214 Newington, VA. 22122  
 phone: (703) 641-2000 fax: (703) 641-1047  
 internet: www.gjbinc.com

PROJECT: **HILLTOP, LOT 19B**  
 TITLE: **E & S CONTROL NARRATIVE, NOTES AND DETAILS**

DISTRICT: PROVIDENCE TAX MAP: 39-3 ((10)) LOT 19B

DATE: AUGUST 2004 ADDRESS: 8324 HILLTOP AVE.

SCALE: AS SHOWN PROJECT MGR.: PATRICK M. KESSLER

ZONE: R-3 BRL: FRONT-30' GJB FILE NO.: 768-HGP

**SHEET**  
3 of 3

Application No. PA 92-P-036 Staff C. Lewis  
 APPROVED DEVELOPMENT PLAN  
 (DP) (GDP) (ODP) (FDP)  
 SEE PROJECTIONS DATED 11-17-05  
 Date of (G) (FC) approval 11-21-05  
 Sheet 2 of 3

**GREGORY J. BUDNIK**  
 No. 20119  
 9/28/04  
 PROFESSIONAL ENGINEER