

**HOWARD COUNTY  
PERMIT APPLICATION**

**PERMIT NUMBER**

*609000 211*

*B0900 2084*

Building Address *1519 EDITIONAL FINE RD*  
*EDITIONAL RD 20757*

Suite/Apt. #:      SDP/WP/Petition #:     

Census Tract      Subdivision     

Section      Area *1AC* Lot *3*

Tax Map *11* Parcel *506* Grid *13*

Zoning *RD10* Map Coordinates      Lot Size *1AC*

Property Owner's Name *DAKSHESH PATEL*  
Address *2709 Longwood Ln*  
City *Lanham* State *MD* Zip Code *20706*  
Home Phone *301-448-5557* Work Phone *410-306-3072*  
Applicant's Name & Mailing Address, (if other than stated herein):

*dakshesh@yahoo.com*

Phone      Fax     

Existing Use *REPAIR*  
Proposed Use *RECONSTRUCTION*  
Estimated Construction Cost \$ *200,000*

Description of Work *Single family*  
*shelling, framed*

Contractor Company       
Contact Person *DAKSHESH PATEL*  
Address *2709 Longwood Ln*  
City *Lanham* State *MD* Zip Code *20706*  
License No.       
Phone *301-448-5557* Fax     

Occupant or Tenant *Dakshesh Patel*  
Contact Name *Dakshesh Patel*  
Address *2709 Longwood Ln*  
City *Lanham* State *MD* Zip Code *20706*  
Phone *301-448-5557* Fax     

Engineer or Architect Company *ALB CONSULTANTS INC*  
Contact Person *Annech Patel*  
Address *7112 Annapolis Rd*  
City *Lanham* State *MD* Zip Code *20706*  
Phone *301-306-3071* Fax *301-306-3072*

**BUILDING DESCRIPTION - COMMERCIAL**

**BUILDING DESCRIPTION - RESIDENTIAL**

Building Characteristics	Utilities
Height: _____	Water Supply: _____ Public <input type="checkbox"/> Private <input type="checkbox"/>
No. of stories: _____	Sewage Disposal: _____ Public <input type="checkbox"/> Private <input type="checkbox"/>
Gross area, sq. ft. per floor: _____	Electric Yes <input type="checkbox"/> No <input type="checkbox"/> Gas Yes <input type="checkbox"/> No <input type="checkbox"/>
Use group: _____	Heating System: _____ Electric <input type="checkbox"/> Oil <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas <input type="checkbox"/>
Construction type: _____ Reinforced Concrete <input type="checkbox"/> Structural Steel <input type="checkbox"/> Masonry <input type="checkbox"/> Wood Frame <input type="checkbox"/> State Certified Modular <input type="checkbox"/>	Sprinkler system: N/A <input type="checkbox"/> Full <input type="checkbox"/> Partial <input type="checkbox"/> Other Suppression <input type="checkbox"/> # of Heads _____

Building Characteristics	Utilities
SF Dwelling <input type="checkbox"/> SF Townhouse <input type="checkbox"/> Depth _____ Width _____ 1 <sup>st</sup> floor: <u><i>28' x 54'</i></u> 2 <sup>nd</sup> floor: <u><i>44' x 54'</i></u> Basement: <u><i>36' x 54'</i></u> Finished Basement <input type="checkbox"/> Unfinished Basement <input checked="" type="checkbox"/> Crawl space <input type="checkbox"/> Slab on Grade <input type="checkbox"/> No. of Bedrooms <u><i>5</i></u>	Water Supply: _____ Public <input type="checkbox"/> Private <input checked="" type="checkbox"/> Sewage Disposal: _____ Public <input type="checkbox"/> Private <input checked="" type="checkbox"/> Electric Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Multi-family dwellings: No. of efficiency units: _____ No. of 1 BR units: _____ No. of 2 BR units: _____ No. of 3 BR units: _____	Heating System: _____ Electric <input type="checkbox"/> Oil <input type="checkbox"/> Natural Gas <input checked="" type="checkbox"/> Propane Gas <input type="checkbox"/>
Other Structure: _____ Dimensions: _____ Footings: <u><i>30' x 10'</i></u> Roof: <u><i>1:8</i></u> State Certified Modular <input type="checkbox"/> Manufactured Home <input type="checkbox"/>	Sprinkler system: N/A <input checked="" type="checkbox"/> NFPA #13D _____ NFPA #13R _____ Other: _____

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature *Dakshesh Patel*  
Title/Company *Owner*

Print Name *DAKSHESH PATEL*  
Date *11-16-09*

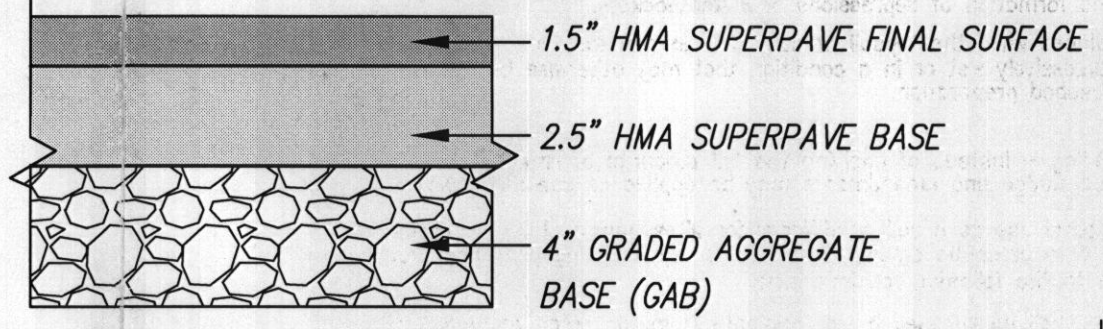
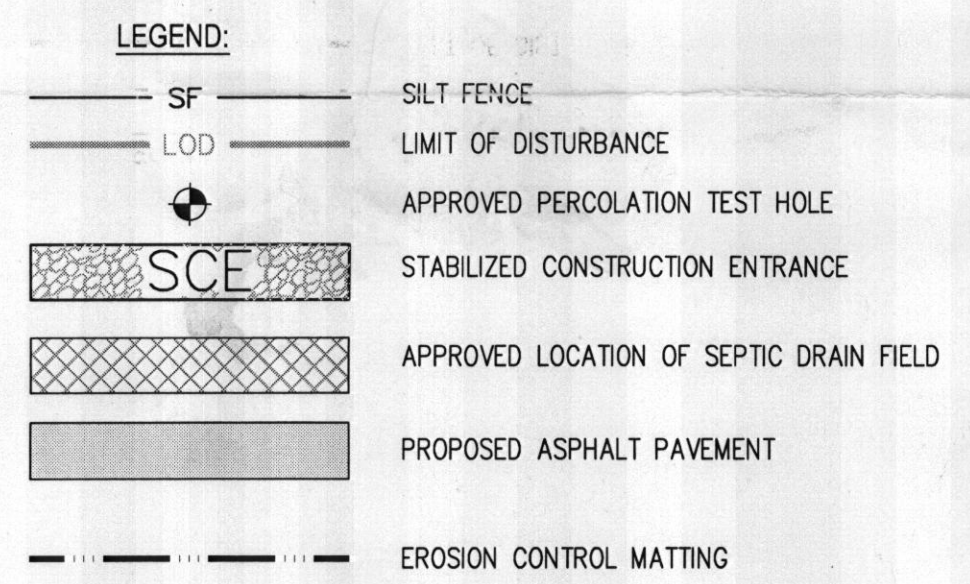
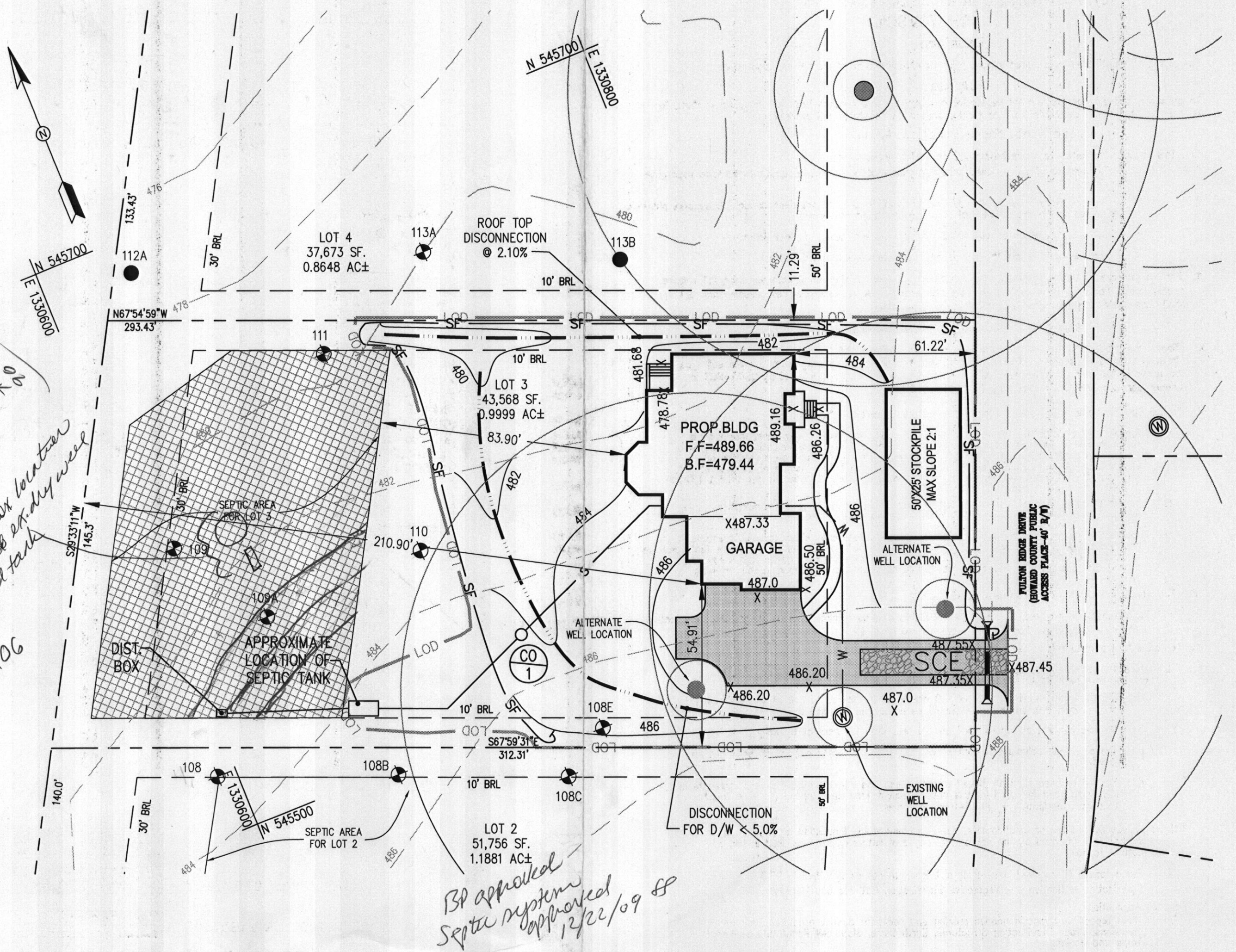
Checks payable to: **DIRECTOR OF FINANCE OF HOWARD COUNTY**  
\*\*PLEASE WRITE NEATLY AND LEGIBLY.\*\*

- FOR OFFICE USE ONLY -

AGENCY	DATE	SIGNATURE APPROVAL
Land Development, DPZ		
State Highways		
Building Officials		
Dev. Engineering, DPZ		
Health	<u><i>12/22/09</i></u>	<u><i>JD</i></u>
Fire Protection		
Is Sediment Control approval required prior to issuance?	YES <input type="checkbox"/> NO <input type="checkbox"/>	

DPZ SETBACK INFORMATION	PROPERTY ID #
Front: _____	Filing fee \$ <u><i>150.00</i></u>
Rear: _____	Permit fee \$ _____
Side: _____	Excise tax \$ _____
Side St.: _____	Add'l per fee \$ _____
All minimum setbacks met?	TOTAL FEES \$ _____
YES <input type="checkbox"/> NO <input type="checkbox"/>	Sub-total paid \$ _____
Is Entrance Permit Required?	Balance due \$ _____
YES <input type="checkbox"/> NO <input type="checkbox"/>	Check # <u><i>107</i></u>
Historic District?	Validation # _____
YES <input type="checkbox"/> NO <input type="checkbox"/>	
Lot Coverage for New Town Zone _____	
SDP/Red-line approval date _____	Accepted by <u><i>JD</i></u>

CONTINGENCY CONSTRUCTION START:   
ONE STOP SHOP:



HOWARD COUNTY PAVING SECTION - P1  
(HO. CO. DETAIL R-2.01)  
NOT TO SCALE

**REVISED SEPTIC TANK**

INV. OUT OF HOUSE	483.75
INV. INTO SEPTIC TANK	481.35
INV. OUT SEPTIC TANK	481.10
GROUND OVER SEPTIC TANK	484.10
INV. INTO DIST. BOX	479.50
INV. OUT OF DIST. BOX	479.40
GROUND OVER DIST. BOX	483.00

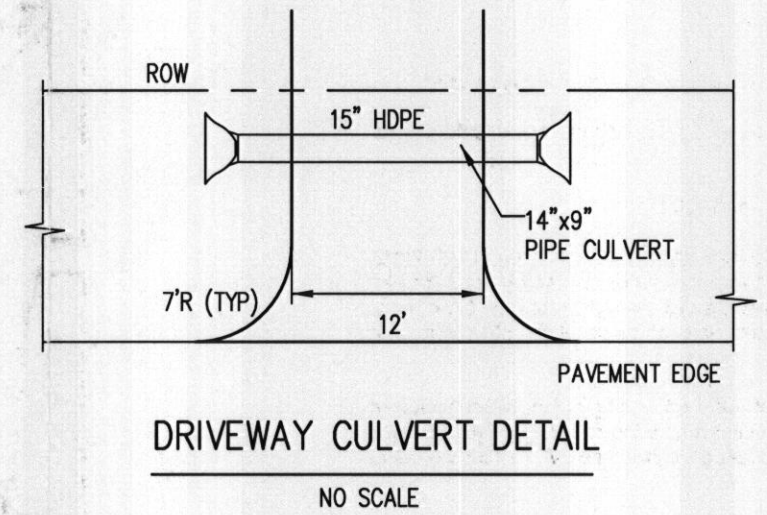
\*NOTE: BASEMENT WILL NOT DRAIN BY GRAVITY

**SEQUENCE OF CONSTRUCTION**

- OBTAIN GRADING PERMIT. 7 DAYS.
- INSTALL SEDIMENT AND EROSION CONTROL DEVICES AND STABILIZE. 2 DAYS
- EXCAVATE FOR FOUNDATION, ROUGH GRADE & TEMPORARY STABILIZE. 30 DAYS
- CONSTRUCT BUILDING AND DRIVEWAY. 120 DAYS.
- CONSTRUCT RAIN GARDEN AS PER PLAN. 5 DAYS
- FINAL GRADE AND STABILIZE IN ACCORDANCE WITH STANDARDS AND SPECIFICATION. 5 DAYS.  
NOTE: CONTRACTOR TO INSTALL EROSION CONTROL MATTING IN PROPOSED SWALE.
- UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT AND EROSION CONTROL DEVICES AND STABILIZE. 2 DAYS

**GENERAL NOTES:**

- THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR FULTON RIDGE, PLAT NO. 18908. REFER TO THE PLAT FOR LOT DIMENSIONS, LOT AREAS AND ALL EASEMENTS.
- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN. RECORDEMENT OF A MODIFIED EASEMENT PLAT SHALL NOT BE NECESSARY.
- SEDIMENT AND EROSION CONTROLS WILL BE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT AND SHALL BE MODIFIED FOR THIS SPECIFIC HOUSE.
- TOPOGRAPHY SHOWN HEREON IS TAKEN FROM HOWARD COUNTY GIS INFORMATION AND WAS FIELD VERIFIED WITHIN SEPTIC AREA, LOT 3, BY AB CONSULTANTS, INC. MAY 2009.
- EXACT LENGTH OF SEPTIC TRENCHES ARE BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
- SPOIL FROM THE TRENCHING OF THE SEPTIC AREA IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION FOR EACH INDIVIDUAL LOT.
- ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS F-06-111.
- SEPTIC TANK FOR THIS LOT IS 2,000 GALLONS.
- THE EXISTING WELL SHOWN ON THIS PLAN, HO-95-0537, HAS BEEN FIELD LOCATED BY AB CONSULTANTS, INC. AND IS ACCURATELY SHOWN.
- PROPOSED DITCH SHALL BE STABILIZED WITH EROSION CONTROL MATTING AS SHOWN ON PLAN.



**NOTE: ENTIRE SITE'S SOIL IS CLASSIFIED AS TYPE "B" SOIL.**

**DEVELOPER'S CERTIFICATE**

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER	DATE
ENGINEER'S CERTIFICATE	
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.	
<i>Sanjay Patel</i>	12/21/09
ENGINEER - SANJAY B. PATEL, P.E.# 31042	DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT	DATE
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**21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL**

**Definition**  
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

**Purpose**  
To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

**Conditions Where Practice Applies**

- This practice is limited to areas having 2:1 or flatter slopes where:
  - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
  - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
  - The original soil to be vegetated contains material toxic to plant growth.
  - The soil is so acidic that treatment with limestone is not feasible.
- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

**Construction and Material Specifications**

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
  - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.
  - Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutgrass, poison ivy, thistle, or others as specified.
  - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-5 tons/acre (900-1000 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- For sites having disturbed areas under 5 acres:
  - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization Section I - Vegetative Stabilization Methods and Materials.
- For sites having disturbed areas over 5 acres:
  - On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
    - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
    - Organic content of topsoil shall be not less than 1.5 percent by weight.
    - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
    - No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.
  - Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist approved by the appropriate approval authority, may be used in lieu of natural topsoil.
  - Place topsoil (if required) and apply soil amendments as specified in 20.0 Stabilization - Section I - Vegetative Stabilization Methods and Materials.
- Topsoil Application**
  - When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
  - Grade on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
  - Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that spreading or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
  - Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.
- Alternative for Permanent Seeding** - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
  - Composted Sludge Material use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
    - Composted sludge shall be supplied by, or originate from, a person or persons that permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
    - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a Ph of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
    - Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
  - Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guideline Specifications, Soil Preparation and Sodding, Md-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes.

**PERMANENT SEEDING NOTES**

Apply to graded or cleared area not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

**SEEDBED PREPARATION:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. (If not previously loosened)

**SOIL AMENDMENTS:** In lieu of soil test recommendations, use on the following schedules.  
1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sf).  
2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000sf) before seeding. Harrow or disc into upper three inches of soil.

**SEEDING:** For the periods March 1 through April 30 and August 1 through October 15, seed with 60 lbs per acre (1.4 lbs/1000sf) of Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.05 lbs/1000 sf) of Weeping Lovegrass. During the period of October 16 through February 28, protect site by Option 1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option 2) use sod. Option 3) seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

**MULCHING:** Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8gal/1000sf) for anchoring.

**MAINTENANCE:** Inspect all seeded areas and make needed repairs, replacements and reseeding.

**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

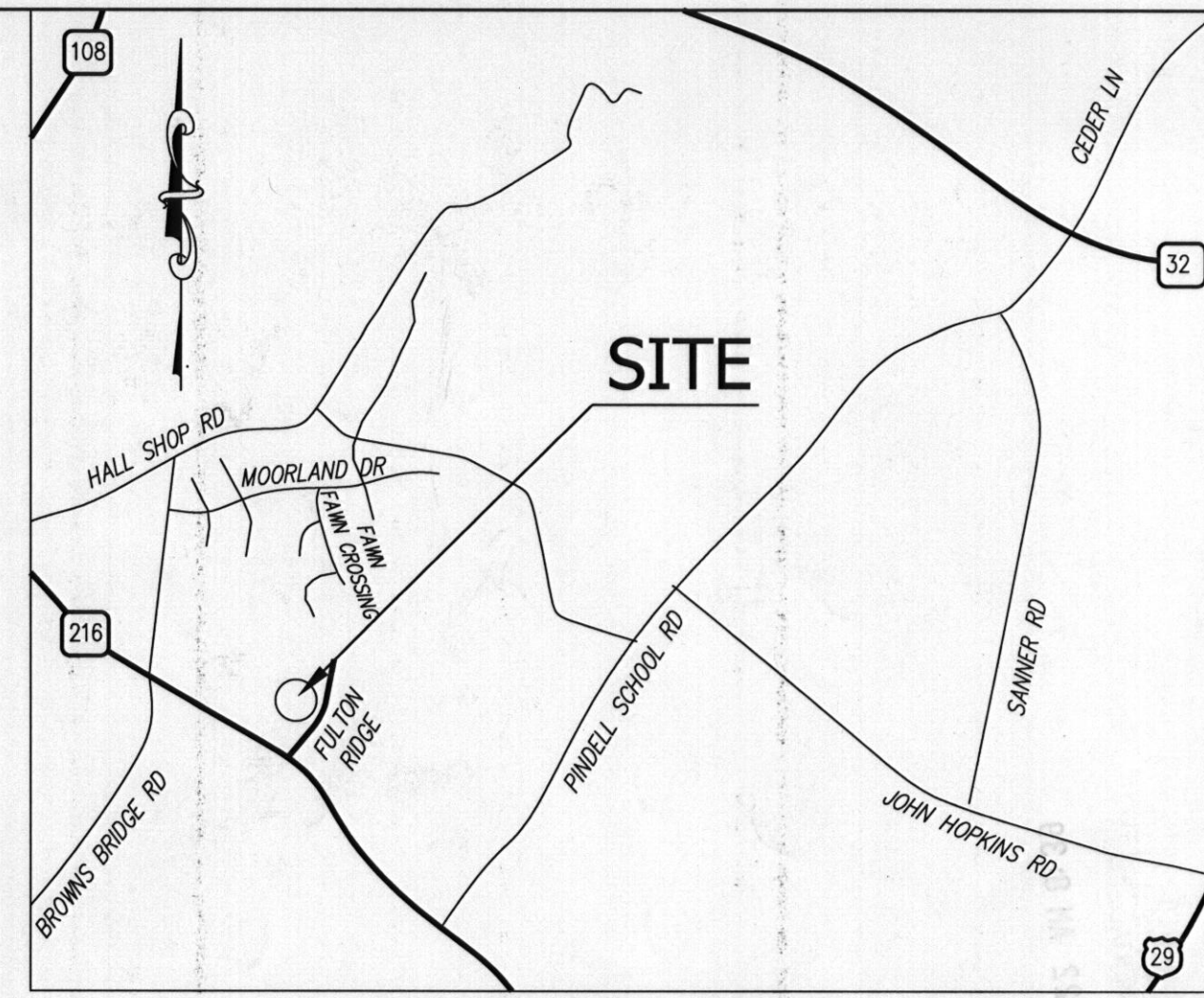
**SEEDBED PREPARATION:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. (If not previously loosened)

**SOIL AMENDMENTS:** Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf).

**SEEDING:** For periods March 1 through April 30 and from August 15 through November 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sf). For the period May 1 through August 14, seed with 3 lbs per acre of Weeping Lovegrass (0.07 lbs/1000 sf). For the period November 16 through February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

**MULCHING:** Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

Refer to the 1994 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rate and methods not covered.



**VICINITY MAP**

SCALE: NTS  
ADC MAP 18, GRIDE E-2

**STANDARD EROSION AND SEDIMENT CONTROL NOTES**

- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and permits, sediment control divisions prior to the start of any construction (313-1855).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 Maryland standards and specifications for soil erosion and sediment control and revisions thereto.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: A) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes steeper than 3:1 B) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around the perimeter in accordance with vol.1, chapter 7, of the Howard county design manual, storm drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 Maryland standards and specifications for soil erosion and sediment control for permanent seeding, sod, temporary seeding, and mulching. ( see 6). Temporary stabilization with mulch alone shall only be done when recommended seeding dates do not allow for proper germination and established of grasses.
- All sediment control structures are to be remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard county sediment control inspector.
- Site Analysis:
 

Total area of site	1.00 Acres
Area Disturbed	0.55 Acres
Area to be roofed or paved	0.19 Acres
Area to be vegetatively stabilized	0.36 Acres
Total cut	400 Cu. Yards
Total fill	000 Cu. Yards

 offsite waste/borrow location to have an active grading permit.
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard county sediment control inspector.
- On all sites with disturbed areas in excess of 2 Acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.
- Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
- Sediment will be removed from traps when its depth reaches clean out elevation shown on the plans.
- Cut and fill quantities provided under site analysis do not represent bid quantities. These quantities do not distinguish between topsoil, structural fill or embankment material, nor do they reflect consideration of undercutting or removal of unsuitable material. The contractor shall familiarize himself with site conditions which may affect the work.

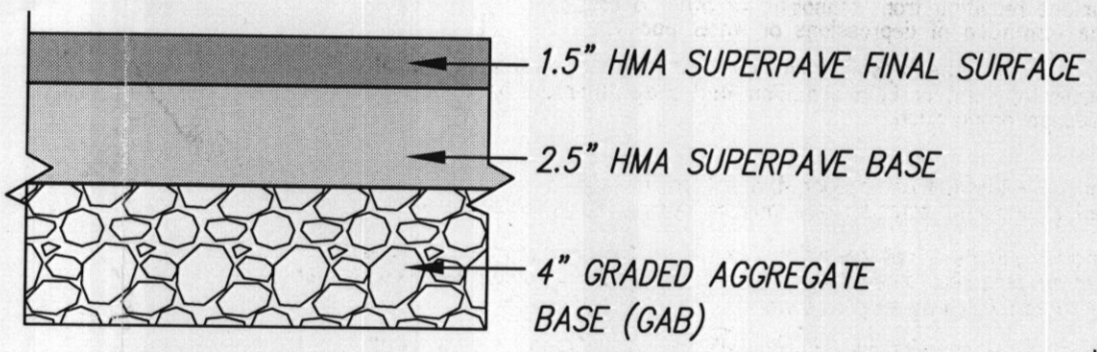
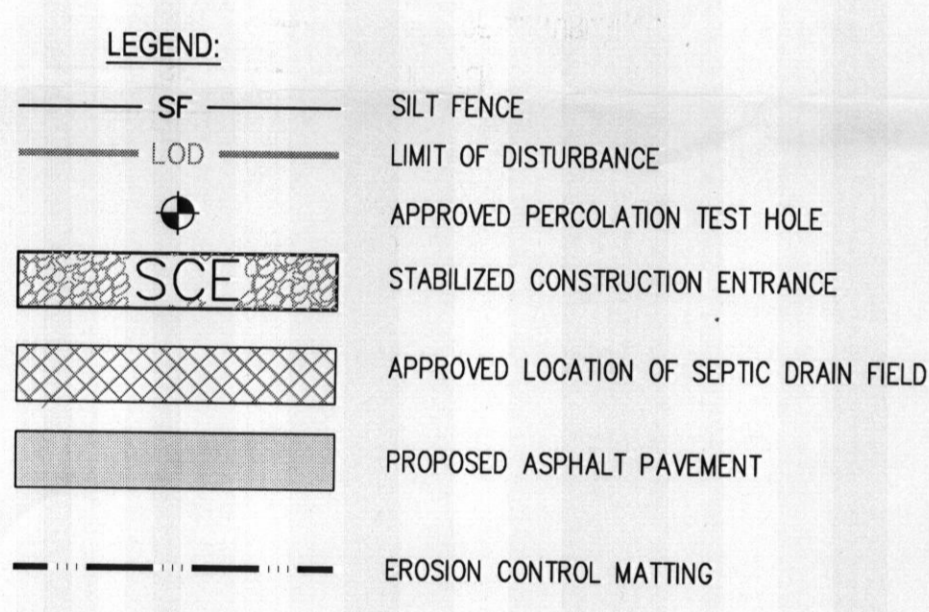
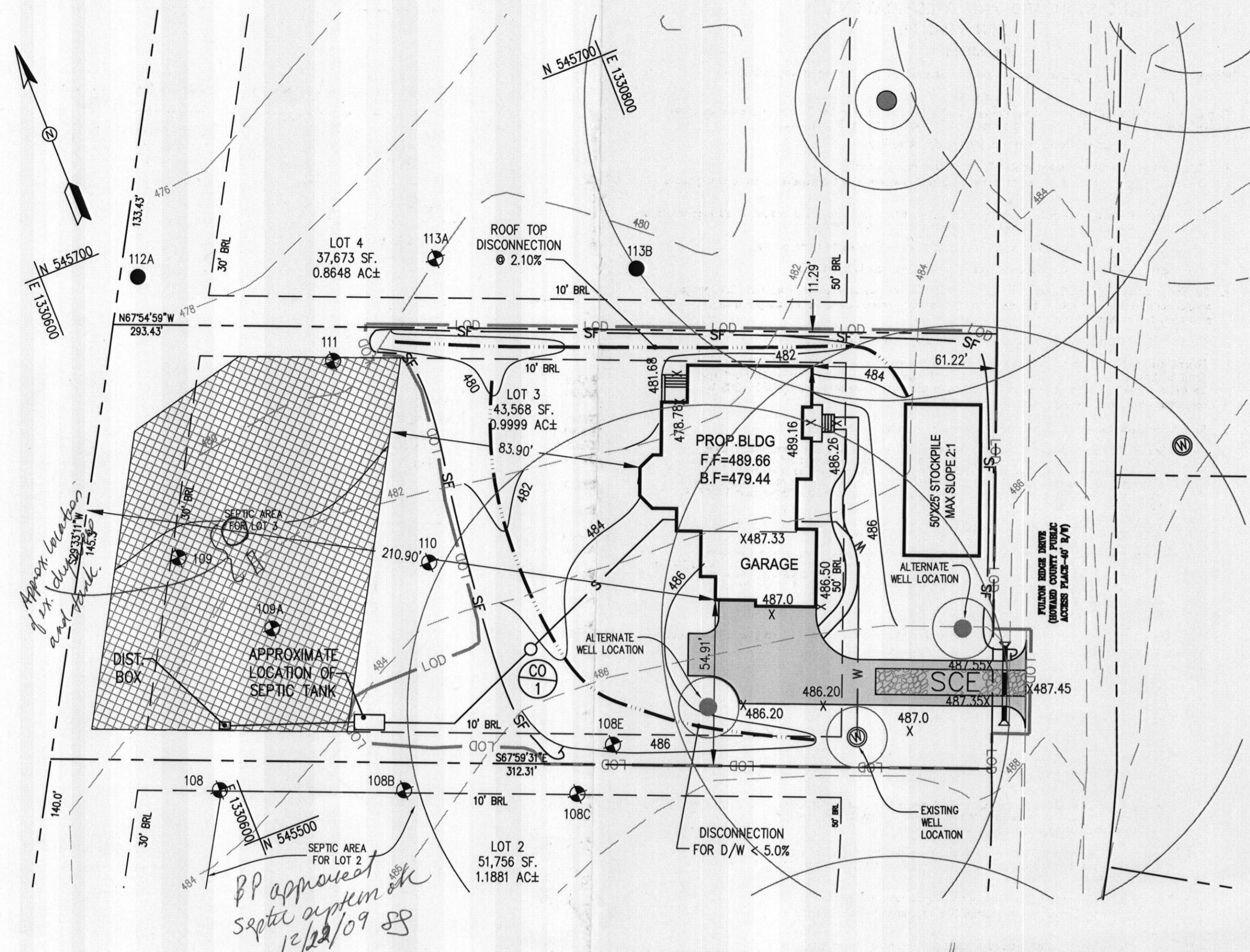
**GP-10-23**

Rev. No.	Revision	Rev. Date

**ENGINEER**  
 **AB CONSULTANTS, INC.**  
9450 ANNAPOLIS ROAD  
LANHAM, MARYLAND 20706  
PHONE: (301) 306-3091  
FAX: (301) 306-3092

**PROFESSIONAL CERTIFICATION:**  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31042, EXPIRATION DATE: 02/18/11

OWNER: DAKSHESH PATEL 7709 LONGMORN LANE LAUREL, MD 20707 PHONE# 202-468-5557 dakshesh@yahoo.com	<b>FULTON RIDGE LOT 3</b> <b>GRADING PERMIT, SEDIMENT AND EROSION CONTROL PLAN AND NOTES</b> 12119 FULTON RIDGE DRIVE FULTON, MD 20759 TAX MAP NO. 41, GRID 13, PARCEL NO. 206 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	PROJECT NO. SCALE: 1"=30' DATE: 12/21/09 DRAWN BY: HRP CHECKED BY: SBP <b>C-01</b>
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HOWARD COUNTY PAVING SECTION - P1  
(HO. CO. DETAIL R-2.01)  
NOT TO SCALE

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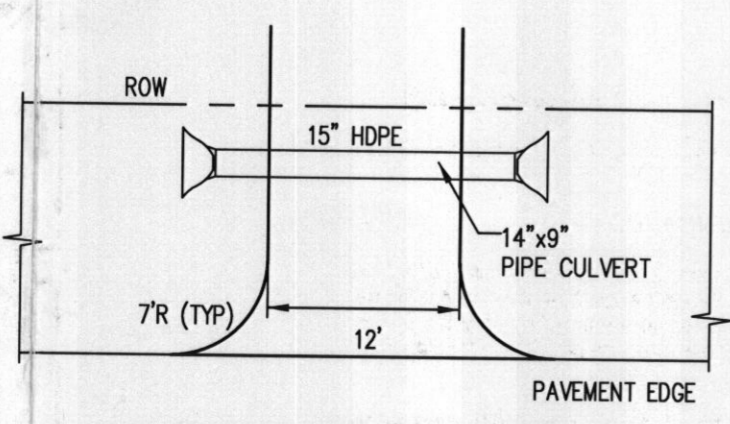
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**GENERAL NOTES:**

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- EXACT LENGTH OF SEPTIC TRENCHES ARE TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
- SPOIL FROM THE TRENCHING OF THE SEPTIC AREA IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION FOR EACH INDIVIDUAL LOT.
- ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS F-06-111.
- SEPTIC TANK FOR THIS LOT IS 2,000 GALLONS.
- THE EXISTING WELL SHOWN ON THIS PLAN, HO-95-0537, HAS BEEN FIELD LOCATED BY AB CONSULTANTS, INC. AND IS ACCURATELY SHOWN.
- PROPOSED DITCH SHALL BE STABILIZED WITH EROSION CONTROL MATTING AS SHOWN ON PLAN.



DRIVEWAY CULVERT DETAIL  
NO SCALE

NOTE: ENTIRE SITE'S SOIL IS CLASSIFIED AS TYPE "B" SOIL.

**DEVELOPER'S CERTIFICATE**

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER	DATE
ENGINEER'S CERTIFICATE	
HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.	
<i>Sanjay Patel</i>	12/21/09
ENGINEER - SANJAY B. PATEL, P.E.# 31042	DATE
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.	
HOWARD SOIL CONSERVATION DISTRICT	DATE

**21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL**

**Definition**  
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

**Purpose**  
To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

**Conditions Where Practice Applies**

- This practice is limited to areas having 2:1 or flatter slopes where:
  - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
  - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
  - The original soil to be vegetated contains material toxic to plant growth.
  - The soil is so acidic that treatment with limestone is not feasible.
- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

**Construction and Material Specifications**

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
  - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.
  - Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, johnsongrass, nutgrass, poison ivy, hickory, or others as specified.
  - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1000 square feet) prior to worked into the soil in conjunction with tillage operations as described in the following procedures.
- For sites having disturbed areas under 5 acres:
  - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization Section I - Vegetative Stabilization Methods and Materials.
- For sites having disturbed areas over 5 acres:
  - On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
    - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
    - Organic content of topsoil shall be not less than 1.5 percent by weight.
    - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
    - No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.
  - Place topsoil (if required) and apply soil amendments as specified in 20.0 Stabilization - Section I - Vegetative Stabilization Methods and Materials.

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

- When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- Grade on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
- Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:

- Composted Sludge Material use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas over 5 acres shall conform to the following requirements:
  - Composted sludge shall be supplied by, or originate from, a person or persons that permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
  - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a Ph of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
  - Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
- Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guideline Specifications, Soil Preparation and Sodding, Md-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes.

**PERMANENT SEEDING NOTES**

Apply to graded or cleared area not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

**SEEDBED PREPARATION:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding. (If not previously loosened)

**SOIL AMENDMENTS:** In lieu of soil test recommendations, use on the following schedules.  
1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (8 lbs/1000 sf).  
2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000sf) before seeding. Harrow or disc into upper three inches of soil.

**SEEDING:** For the periods March 1 through April 30 and August 1 through October 15, seed with 80 lbs per acre (1.4 lbs/1000sf) of Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.05 lbs/1000 sf) of Weeping Lovegrass. During the period of October 16 through February 28, protect site by Option 1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option 2) use sod. Option 3) seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

**MULCHING:** Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (8 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000sf) for anchoring.

**MAINTENANCE:** Inspect all seeded areas and make needed repairs, replacements and reseeding.

**TEMPORARY SEEDING NOTES**

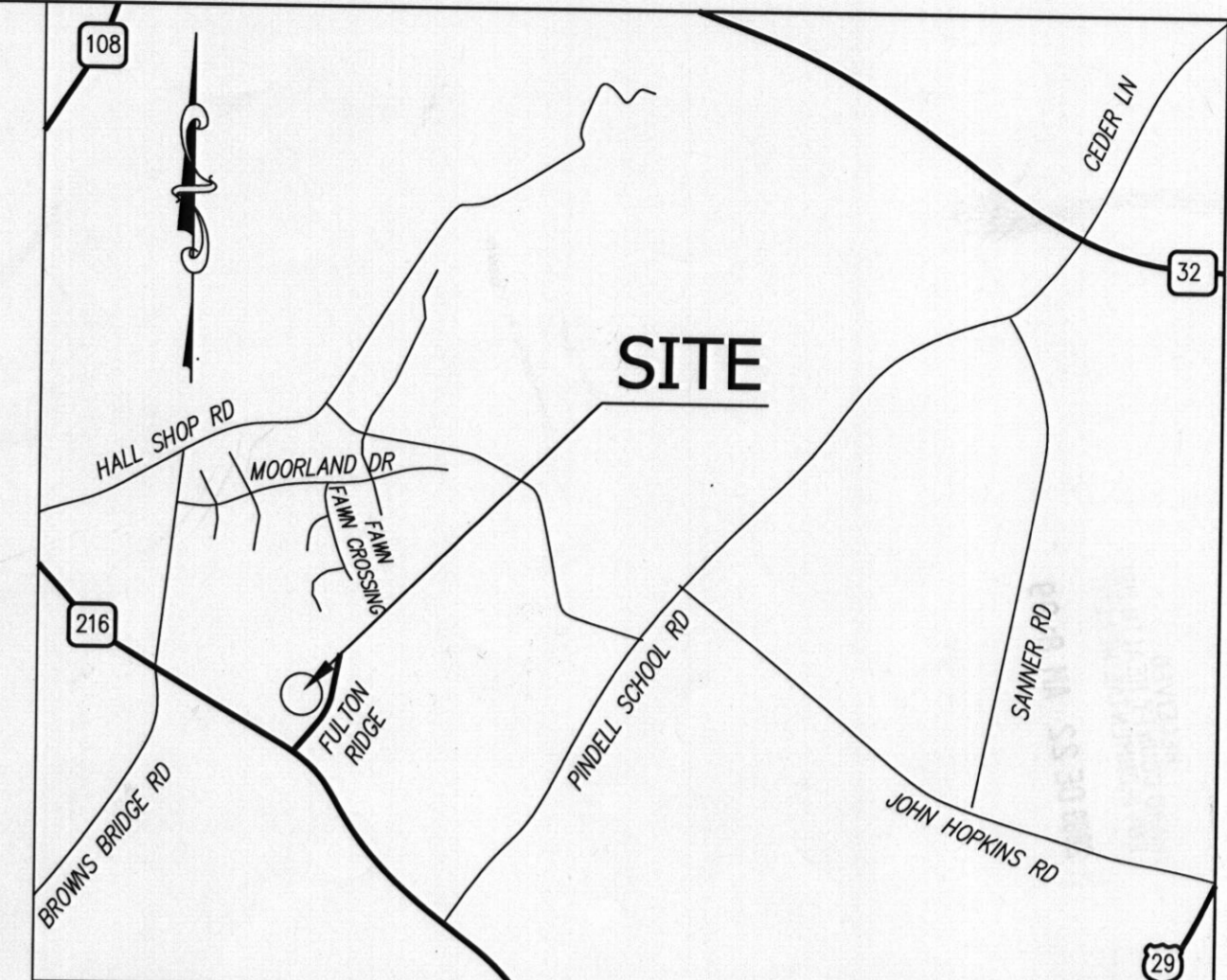
Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

**SEEDBED PREPARATION:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding. (If not previously loosened)

**SOIL AMENDMENTS:** Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf).

**SEEDING:** For periods March 1 through April 30 and from August 15 through November 15, seed with 2-1/2 bushel per acre of annual ryegrass (3.2 lbs/1000 sf). For the period May 1 through August 14, seed with 3 lbs per acre of Weeping Lovegrass (0.07 lbs/1000 sf). For the period November 16 through February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

**MULCHING:** Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (8 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.  
Refer to the 1994 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rate and methods not covered.



VICINITY MAP  
SCALE: NTS  
ADC MAP 18, GRIDE E-2

**STANDARD EROSION AND SEDIMENT CONTROL NOTES**

- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and permits, sediment control divisions prior to the start of any construction (313-1855).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 Maryland standards and specifications for soil erosion and sediment control and revisions thereto.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: A) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes steeper than 3:1 B) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around the perimeter in accordance with vol.1, chapter 7, of the Howard county design manual, storm drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 Maryland standards and specifications for soil erosion and sediment control for permanent seeding, sod, temporary seeding, and mulching. (see 6). Temporary stabilization with mulch alone shall only be done when recommended seeding dates do not allow for proper germination and established of grasses.
- All sediment control structures are to be remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard county sediment control inspector.
- Site Analysis:
 

Total area of site	1.00 Acres
Area Disturbed	0.55 Acres
Area to be roofed or paved	0.19 Acres
Area to be vegetatively stabilized	0.36 Acres
Total cut	400 Cu. Yards
Total fill	000 Cu. Yards

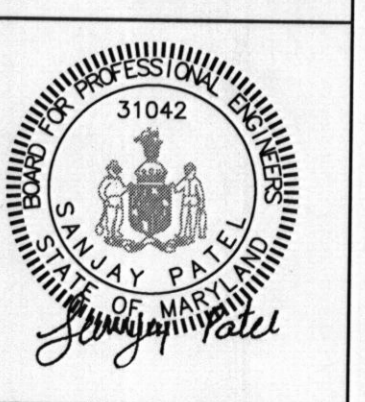
 offsite waste/borrow location to have an active grading permit.
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard county sediment control inspector.
- On all sites with disturbed areas in excess of 2 Acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.
- Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
- Sediment will be removed from traps when its depth reaches clean out elevation shown on the plans.
- Cut and fill quantities provided under site analysis do not represent bid quantities. These quantities do not distinguish between topsoil, structural fill or embankment material, nor do they reflect consideration of undercutting or removal of unsuitable material. The contractor shall familiarize himself with site conditions which may affect the work.

GP-10-23

Rev. No.	Revision	Rev. Date

**ENGINEER**  
**AB CONSULTANTS, INC.**  
9450 ANNAPOLIS ROAD  
LANHAM, MARYLAND 20706  
PHONE: (301) 306-3091  
FAX: (301) 306-3092

**PROFESSIONAL CERTIFICATION:**  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31042, EXPIRATION DATE: 02/18/11



CONTACT: SANJAY PATEL, PE (EXT. 121)		
OWNER: DAKSHESH PATEL 7709 LONGMORN LANE LAUREL, MD 20707 PHONE# 202-468-5557 dakshesh@yahoo.com	<b>FULTON RIDGE LOT 3</b> <b>GRADING PERMIT, SEDIMENT AND EROSION CONTROL PLAN AND NOTES</b> 12119 FULTON RIDGE DRIVE FULTON, MD 20759 TAX MAP NO. 41, GRID 13, PARCEL NO. 206 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	PROJECT NO. SCALE: 1"=30' DATE: 12/21/09 DRAWN BY: HRP CHECKED BY: SGP <b>C-01</b>