



# Building Permit Application

Howard County Maryland  
 Department of Inspections, Licenses and Permits  
 3430 Court House Drive  
 Permits: 410-313-2455  
 www.howardcountymd.gov

Date Received: 3/25/15

Permit No.: B15000678

Building Address: 12386 HOWARD LODGE DR  
 City: Silver Spring State: MD Zip Code: 20981  
 Suite/Apt. # \_\_\_\_\_ SDP/WP/BA #: \_\_\_\_\_  
 Census Tract: \_\_\_\_\_ Subdivision: Nelson Heights  
 Section: \_\_\_\_\_ Area: \_\_\_\_\_ Lot: 2-B  
 Tax Map: 9 Parcel: 306 Grid: 12  
 Zoning: \_\_\_\_\_ Map Coordinates: \_\_\_\_\_ Lot Size: 1,056

Property Owner's Name: Gregory Nelson  
 Address: 12386 Howard Lodge Dr  
 City: Silver Spring State: MD Zip Code: 20981  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

**Applicant's Name & Mailing Address, (If other than stated herein)**  
 Applicant's Name: Gregory Nelson  
 Address: PO Box 1238  
 City: Silver Spring State: MD Zip Code: 20981  
 Phone: 410-503-1234 Fax: \_\_\_\_\_  
 Email: gregory@applied.com

Existing Use: Residential  
 Proposed Use: 40' x 100' commercial garage  
 Estimated Construction Cost: \$ 15,000  
 Description of Work: Install 40' x 100' garage

Contractor Company: TECH AIR  
 Contact Person: Jeff Brown  
 Address: 1500 2nd Colina Circle  
 City: Baltimore State: MD Zip Code: 21207  
 License No.: 63161  
 Phone: 410-512-4149 Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Occupant or Tenant: \_\_\_\_\_  
 Was tenant space previously occupied?  Yes  No  
 Contact Name: \_\_\_\_\_  
 Address: 12386  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Engineer/Architect Company: \_\_\_\_\_  
 Responsible Design Prof.: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Commercial Building Characteristics	Residential Building Characteristics
Height:	<input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse
No. of stories:	<b>Depth</b> <b>Width</b>
Gross area, sq. ft./floor:	1 <sup>st</sup> floor:
	2 <sup>nd</sup> floor:
Area of construction (sq. ft.):	Basement:
	<input type="checkbox"/> Finished Basement
Use group:	<input type="checkbox"/> Unfinished Basement
	<input type="checkbox"/> Crawl Space
<b>Construction type:</b>	<input type="checkbox"/> Slab on Grade
<input type="checkbox"/> Reinforced Concrete	No. of Bedrooms:
<input type="checkbox"/> Structural Steel	<b>Multi-family Dwelling</b>
<input type="checkbox"/> Masonry	No. of efficiency units:
<input type="checkbox"/> Wood Frame	No. of 1 BR units:
<input type="checkbox"/> State Certified Modular	No. of 2 BR units:
	No. of 3 BR units:
	Other Structure:
	Dimensions:
<b>Roadside Tree Project Permit</b>	Footings:
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Roof:
<b>Roadside Tree Project Permit #</b>	<input type="checkbox"/> State Certified Modular
	<input type="checkbox"/> Manufactured Home

Utilities	
<b>Water Supply</b>	
<input type="checkbox"/> Public	
<input type="checkbox"/> Private	
<b>Sewage Disposal</b>	
<input type="checkbox"/> Public	
<input type="checkbox"/> Private	
Electric: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Gas: <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Heating System</b>	
<input type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other:	
<b>Sprinkler System:</b>	
<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Grading Permit Number:</b>	
<b>Building Shell Permit Number:</b>	

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: \_\_\_\_\_  
 Email Address: \_\_\_\_\_  
 Title/Company: \_\_\_\_\_

Print Name: \_\_\_\_\_  
 Date: 3/25/15

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY  
 \*\*PLEASE WRITE NEATLY & LEGIBLY\*\*  
 -FOR OFFICE USE ONLY-

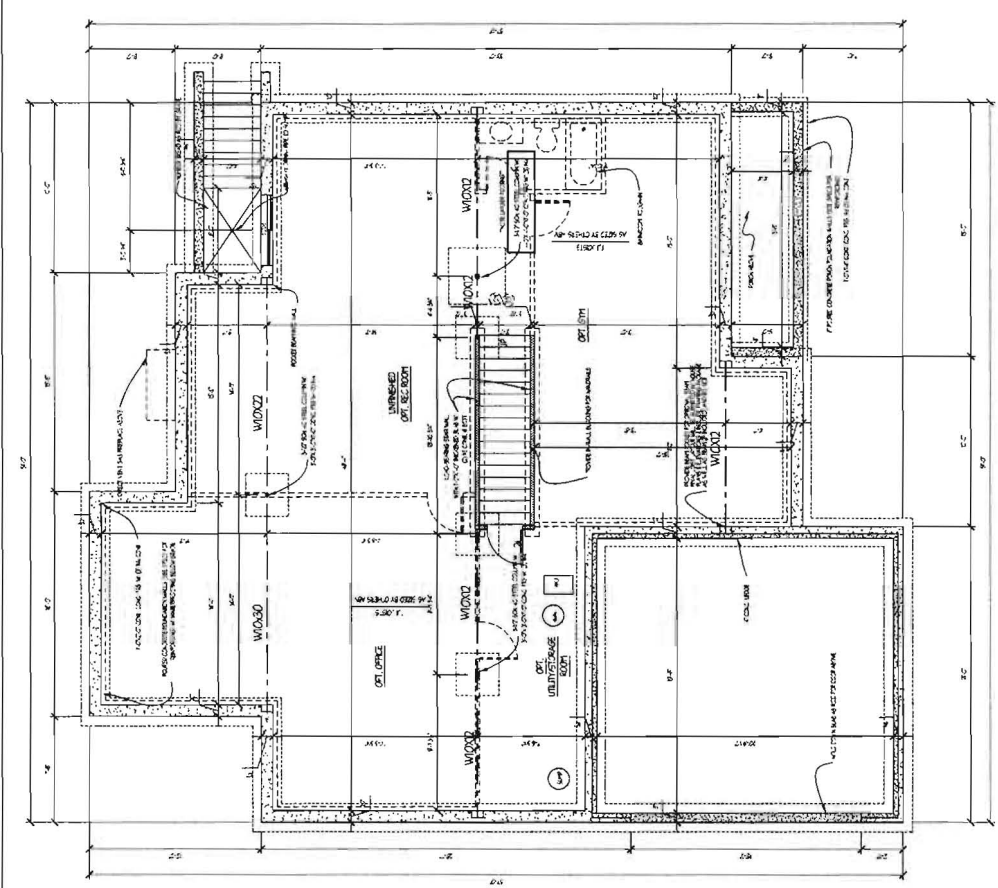
AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA ( Zoning )		
PSZA ( Engineering )		
Health	<u>3/1/15</u>	<u>[Signature]</u>

Is Sediment Control approval required for issuance?  Yes  No  
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION
Front: _____
Rear: _____
Side: _____
Side St.: _____
All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone: _____
SDP/Red-line approval date: _____

Filing Fee	\$
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub-Total Paid	\$
Balance Due	\$
Check	# <u>4115</u>

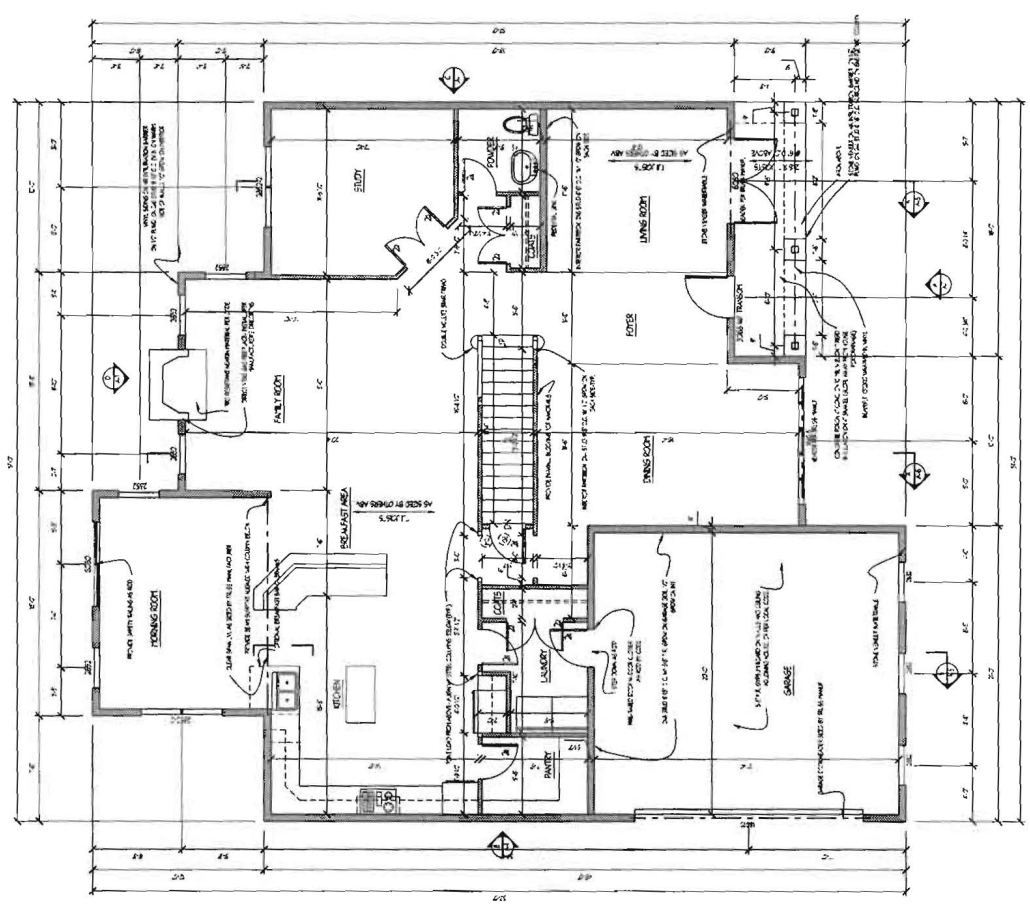




Unfinish basement per  
 Gary Cumberland (builder)  
 email dated 11/20/14.  
 -H.O.  
 11/20/14

PROJECT SHANNON RESIDENCE - MODEL	DATE 11/20/14	SCALE 1/4" = 1'-0"
FOUNDATION PLAN	DESIGNED BY A-2	DATE 11/20/14
APPROVED FOR RELEASE TO:	DATE	
<input type="checkbox"/> Permit		
<input type="checkbox"/> Submittal		
<input type="checkbox"/> Construction		
<input type="checkbox"/> Other:		

A FOUNDATION PLAN  
 A-2 1/4" = 1'-0"



(1,832 SF)

**FIRST FLOOR PLAN**  
 1/4" = 1'-0"  
 ALL INTERIOR DIMENSIONS TAKEN TO THE FACE OF 2x4 STUD U.N.O.  
 ALL EXTERIOR DIMENSIONS TAKEN TO THE FACE OF 1/2" PLIND. ON 2x6 STUD U.N.O.

<b>APPROVED FOR RELEASE TO:</b> <input type="checkbox"/> Parent <input type="checkbox"/> Sub/Neighbor <input type="checkbox"/> Other Date _____ Owner _____		PROJECT NO. 2022-001 SHEET NO. 1 OF 1 DATE 10/15/2022 PROJECT NAME: SHANNON RESIDENCE	ARCHITECT: MADHOUSE ARCHITECTURE, LLC 1000 N. 10TH ST., SUITE 100 DENVER, CO 80202 TEL: 303.733.1111 WWW.MADHOUSEARCHITECTURE.COM
TITLE: FIRST FLOOR PLAN & OPTIONS CLIENT: SHANNON RESIDENCE MODEL		PROJECT LOCATION: 1000 N. 10TH ST., SUITE 100, DENVER, CO 80202 PROJECT STATUS: IN PROGRESS	





**Building Permit Application**  
 Howard County Maryland  
 Department of Inspections, Licenses and Permits  
 3430 Court House Drive  
 Permits: 410-313-2455  
 www.howardcountymd.gov

Date Received: 10/16/14

Permit No.: B14003794

Building Address: 12386 Howard Lodge Rd  
 City: Sykesville State: MD Zip Code: 21784  
 Suite/Apt. #: \_\_\_\_\_ SDP/WP/BA #: \_\_\_\_\_  
 Census Tract: \_\_\_\_\_ Subdivision: Nelson  
 Section: \_\_\_\_\_ Area: \_\_\_\_\_ Lot: 2B  
 Tax Map: 9 Parcel: 308 Grid: 12  
 Zoning: \_\_\_\_\_ Map Coordinates: \_\_\_\_\_ Lot Size: 1.62

Property Owner's Name: Chris & Jessica Shannon  
 Address: 5006 Lightfoot  
 City: Columbia State: MD Zip Code: 21042  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Applicant's Name & Mailing Address, (If other than stated herein)  
 Applicant's Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Existing Use: Vacant  
 Proposed Use: SFD  
 Estimated Construction Cost: \$ 250,000.00  
 Description of Work: 4 Bedroom, 2.5 Bath 2 story Colonial, unfinished Basement  
 Occupant or Tenant: \_\_\_\_\_

Contractor Company: Viking Development Corp  
 Contact Person: Cory Cumberland  
 Address: 815 Windriver Dr  
 City: Sykesville State: MD Zip Code: 21784  
 License No.: 1185  
 Phone: 410-477-2188 Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Was tenant space previously occupied?  Yes  No  
 Contact Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Engineer/Architect Company: Bluehouse Architectural  
 Responsible Design Prof.: Melissa Clark  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Phone: 410-241-2894 Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Commercial Building Characteristics	Residential Building Characteristics	
Height:	<input checked="" type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse	
No. of stories:	Depth	Width
Gross area, sq. ft./floor:	1 <sup>st</sup> floor: <u>57</u>	<u>51</u>
Area of construction (sq. ft.):	2 <sup>nd</sup> floor: <u>44</u>	<u>51</u>
Use group:	Basement: <u>57</u>	<u>51</u>
Construction type:	<input type="checkbox"/> Finished Basement	
<input type="checkbox"/> Reinforced Concrete	<input checked="" type="checkbox"/> Unfinished Basement	
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Crawl Space	
<input type="checkbox"/> Masonry	<input type="checkbox"/> Slab on Grade	
<input type="checkbox"/> Wood Frame	No. of Bedrooms: <u>4</u>	
<input type="checkbox"/> State Certified Modular	Multi-family Dwelling	
	No. of efficiency units:	
	No. of 1 BR units:	
	No. of 2 BR units:	
	No. of 3 BR units:	
	Other Structure:	
	Dimensions:	
<input checked="" type="checkbox"/> Roadside Tree Project Permit	Footings:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Roof:	
Roadside Tree Project Permit #	<input type="checkbox"/> State Certified Modular	
	<input type="checkbox"/> Manufactured Home	

Utilities	
<u>Water Supply</u>	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
<u>Sewage Disposal</u>	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Electric: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Gas: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<u>Heating System</u>	
<input type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input type="checkbox"/> Natural Gas <input checked="" type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other:	
<u>Sprinkler System:</u>	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Grading Permit Number: <u>G14000326</u>	
Building Shell Permit Number:	

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: [Signature] Print Name: Cory Cumberland  
 Email Address: Cornel@vikingcustomhomes.com Date: 10-14-14  
 Title/Company: President / Viking Dev. Corp

RECEIVED  
 OCT 16 2014  
 LICENSES & PERMITS  
 DIVISION

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

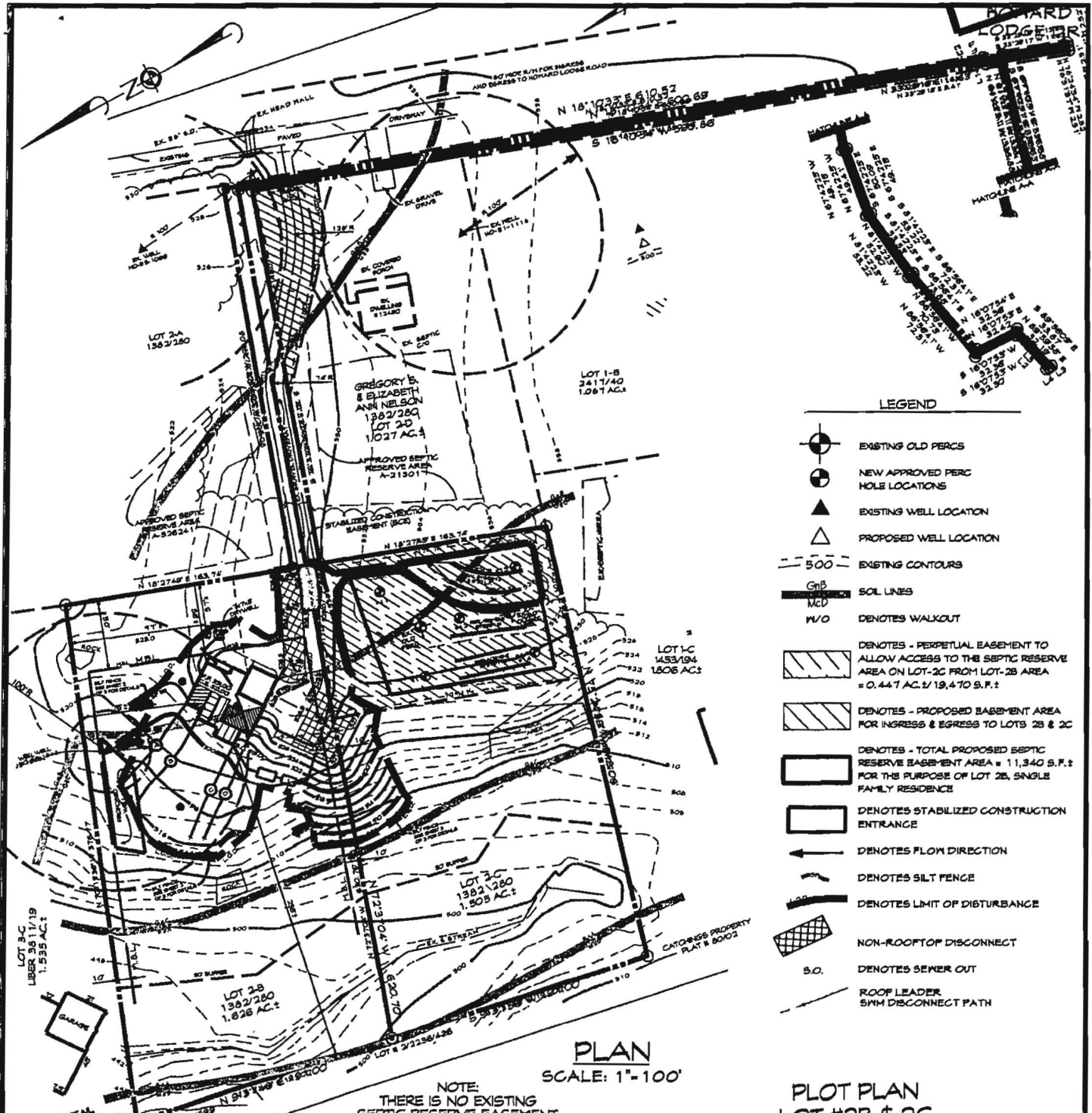
\*\*PLEASE WRITE NEATLY & LEGIBLY\*\*  
 -FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health		<u>[Signature]</u>

Is Sediment Control approval required for guidance?  Yes  No  
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION
Front:
Rear:
Side:
Side St:
All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone:
SDP/Red-line approval date:

Filing Fee	\$ 100.00
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$ 50.00
Add'l per Fee	\$
Total Fees	\$
Sub-Total Paid	\$
Balance Due	\$
Check	# 11343



- LEGEND**
- EXISTING OLD PERCS
  - NEW APPROVED PERC HOLE LOCATIONS
  - EXISTING WELL LOCATION
  - PROPOSED WELL LOCATION
  - 500' EXISTING CONTOURS
  - SOIL LINES
  - DENOTES WALKOUT
  - DENOTES - PERPETUAL EASEMENT TO ALLOW ACCESS TO THE SEPTIC RESERVE AREA ON LOT-2C FROM LOT-2B AREA = 0.447 AC. / 19,470 S.F.±
  - DENOTES - PROPOSED BASEMENT AREA FOR INGRESS & EGRESS TO LOTS 2B & 2C
  - DENOTES - TOTAL PROPOSED SEPTIC RESERVE BASEMENT AREA = 11,340 S.F.± FOR THE PURPOSE OF LOT 2B, SINGLE FAMILY RESIDENCE
  - DENOTES STABILIZED CONSTRUCTION ENTRANCE
  - DENOTES FLOW DIRECTION
  - DENOTES SILT FENCE
  - DENOTES LIMIT OF DISTURBANCE
  - NON-ROOFTOP DISCONNECT
  - DENOTES SEWER OUT
  - ROOF LEADER SWM DISCONNECT PATH

**PLAN**  
SCALE: 1"=100'

NOTE:  
THERE IS NO EXISTING SEPTIC RESERVE EASEMENT AREA LOCATED ON THIS LOT.

SEE SHEET 2 OF 2 FOR GRADING DETAIL

**PLOT PLAN**  
**LOT #2B & 2C**  
**#12386 HOWARD LODGE DRIVE**  
**NELSON PROPERTY**  
3RD ELECTION DISTRICT \* HOWARD COUNTY, MARYLAND  
DEED REFERENCE 1382/280  
TAX MAP: 9 PARCEL: 306 GRID: 12

BUILDER TO VERIFY AVAILABILITY OF BASEMENT SEWER SERVICE PRIOR TO DWELLING STAKEOUT.

THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HERE ON.

*Penny Meckley* 9/16/14  
CARROLL LAND SERVICES INC. DATE

EXISTING GRADES SHOULD BE FIELD VERIFIED WHEN HOUSE STAKEOUT IS DONE.

DATE	REVISIONS
3/20/14	REVS HOUSE, LOCATION AND GRADING
9/10/14	REVS HOUSE, LOCATION AND GRADING



439 East Main Street Westminster, MD 21157-5539  
(410) 848-1790 FAX (410) 848-1791

DRAWN BY:	KMB
DESIGN BY:	
REVIEW BY:	DEM
DATE:	07-03-13
SCALE:	AS SHOWN
JOB NO:	2006166
SHEET:	1 OF 2



HOWARD COUNTY  
DEPARTMENT OF INSPECTIONS, LICENSES & PERMITS

Permission is hereby granted by the Howard County Department of Inspections, Licenses & Permits for an entrance permit:

Owner Chris + Jessica Shannon Phone 410 977-2188  
Address 5206 Lightfoot Rd, Columbia MD 21042  
New Building Address 12386 Howard Lodge Rd Sykesville MD 21784  
For what use: Entrance To SFD  
Name of Contractor or Builder Viking Development Corp  
Address 815 Windriver Dr Sykesville MD 21784

The applicant hereby certifies and agrees as follows: (1) that he is the owner or the duly authorized agent of the owner to make this application; (2) that he has read all of the information set forth and that the same is correct; (3) that the permit, when issued, may be declared void should said information be incorrect; (4) that he will comply with all rules and regulations of Howard County Bureau of Highways; (5) that he will perform no work on the entrance not specifically described in this permit.

It must be noted that a use & occupancy permit will not be issued until entrance is completed to Bureau of Highways Standards & Specifications.

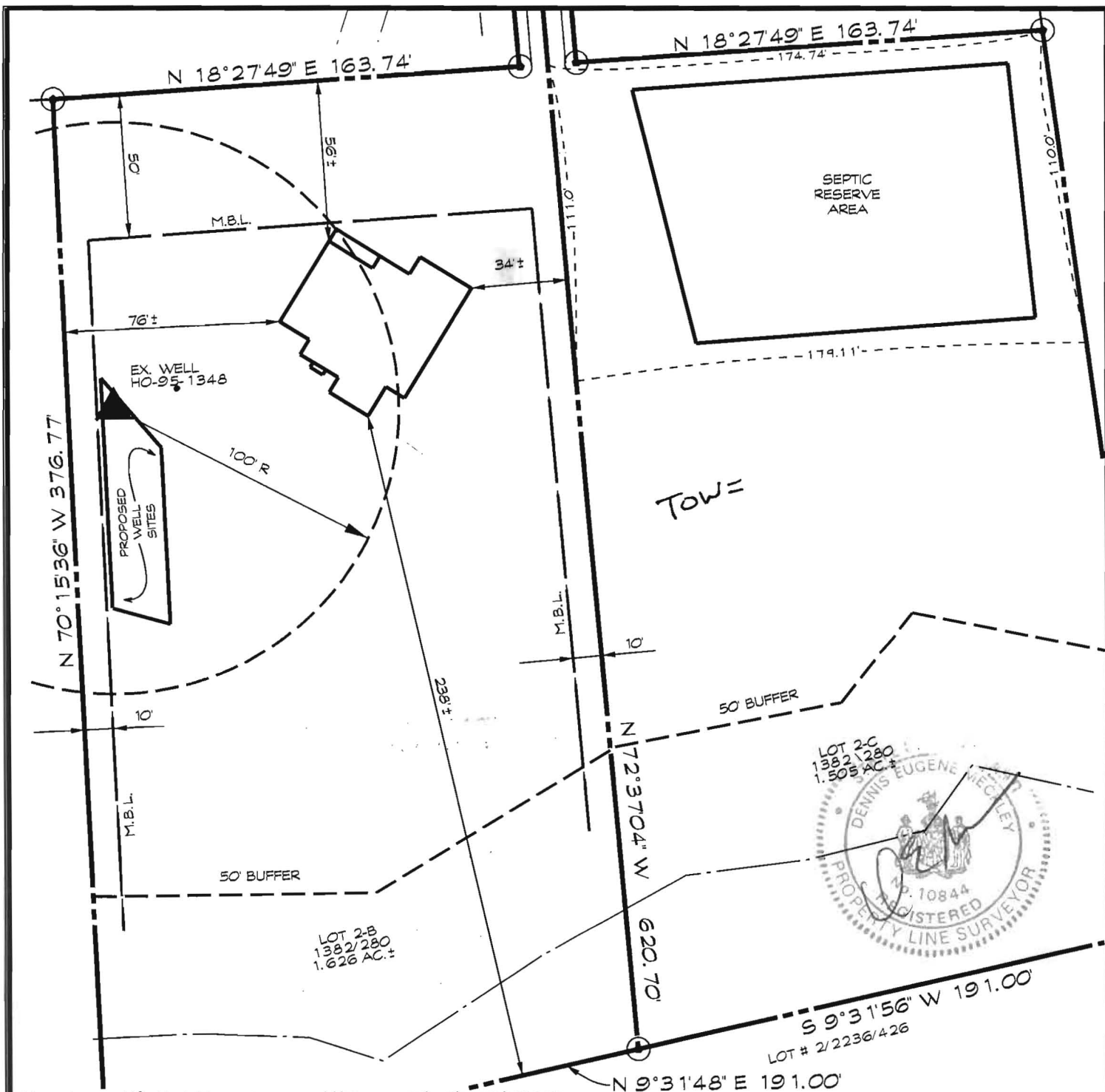
It is agreed and understood by the acceptance of this permit, the following conditions will be followed.

- A. The construction of the entrance or approach will, in no way, change the grade/and or alignment of any existing drainage ditches or structures. In the event same are damaged or destroyed, they shall be replaced to the satisfaction of the Howard County Department of Public Works representative.
- B. The right-of-way, affected by this permit, will be left in a neat and clean condition and no excess material will be permitted to remain on or adjacent to the right-of-way. Shoulders and flow-line areas disturbed shall be shaped up according to the Howard County Bureau of Highways Standards and Specifications. (For Driveway and Flow-line area.)

In consideration of the issuance of this permit, the applicant agrees that if he fails to comply with the above set-out standards and thereby causes damage to the Howard County Road System, that the applicant will be responsible to Howard County for such damage to its road system.

Sign [Signature]  
(Name of applicant)  
Address 815 Windriver Dr Sykesville MD 21784  
Date 10-14-14 Approved \_\_\_\_\_

ATTENTION: The permit, when issued, is valid for period not to exceed six months.



I hereby certify that I have surveyed the property shown hereon for the sole purpose of locating the improvements. This plan is a benefit to the customer only in so far as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing or refinancing. It is not to be relied upon for the establishment of boundary, easement or right-of-way lines for any reason, such as the location of fences, garages, buildings, or other existing or future improvements. Offsets of buildings to property lines are to the nearest foot (1') unless otherwise noted.

By: Dennis E. Meckley Date: 6/15/15  
 Dennis E. Meckley Property Line Surveyor No. 10844  
 License expires March 29, 2016

A licensed Maryland Surveyor either personally prepared this Location Drawing, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with the Maryland Minimum Standards of Practice for Land Surveyors. (COMAR 09-13-06.06 AND .12)

FOUNDATION CERTIFICATION  
 LOT #2B & 2C  
 #12386 HOWARD LODGE DRIVE  
**NELSON PROPERTY**

3RD ELECTION DISTRICT \* HOWARD COUNTY, MARYLAND  
 DEED REFERENCE 1382/280  
 TAX MAP: 9 PARCEL: 306 GRID: 12



439 East Main Street Westminster, MD 21157-5539  
 (410) 848-1790 FAX (410) 848-1791

DRAWN BY:	MNM
DESIGN BY:	
REVIEW BY:	DEM
DATE:	4/20/15
SCALE:	1"=50'
JOB NO:	2006166
SHEET:	2 OF 2

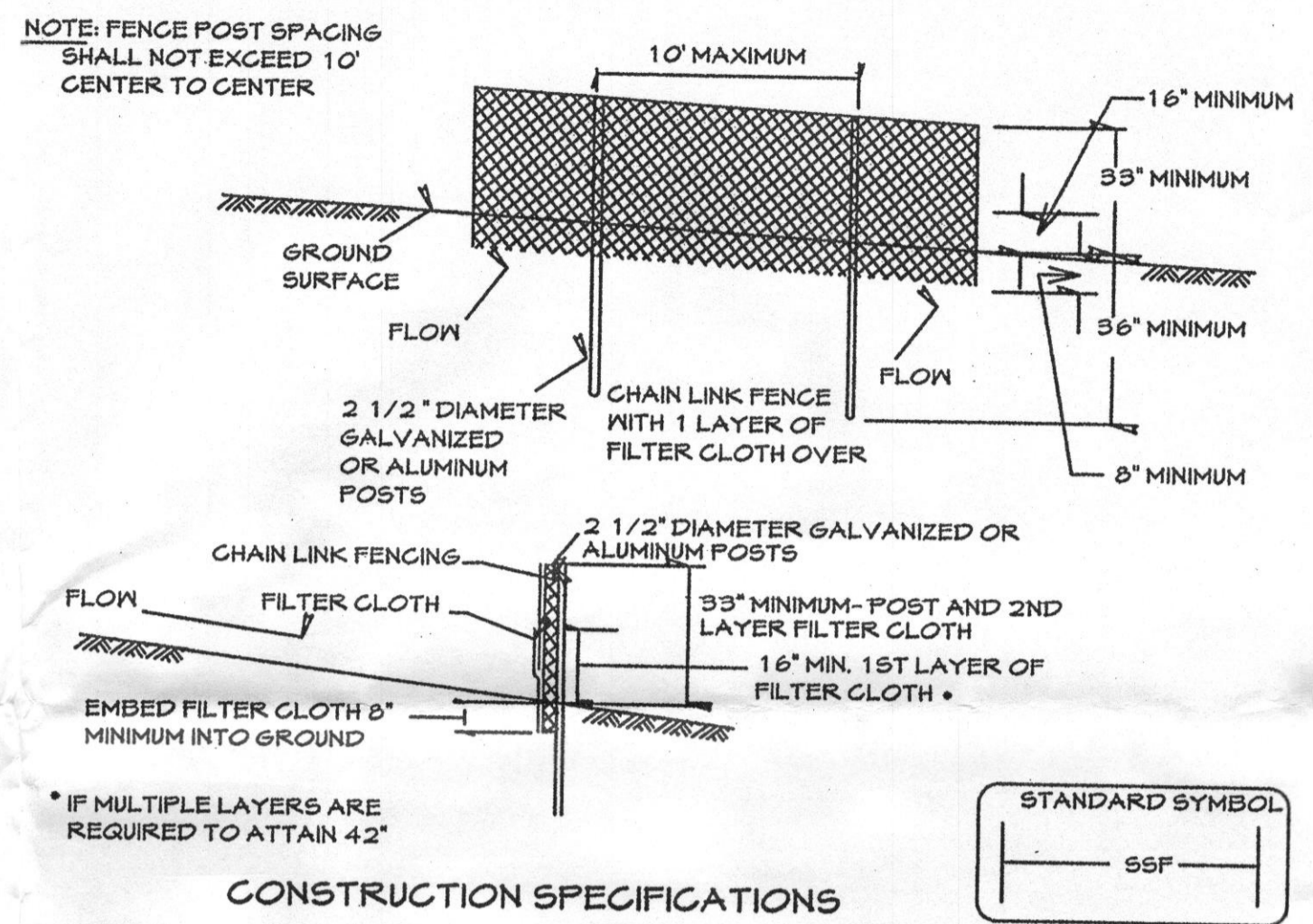
**Standard Sediment Control Notes**

1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (313-1055).
2. All vegetative and structural practices to be installed according to the provisions of this plan and are to be in conformance with the most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
3. 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 greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. 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 (Sec. 5.1), sod (Sec. 5.4), temporary seeding (Sec. 5.0) and mulching (Sec. 5.2). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to 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.
7. Site Analysis:  
Total Area of Site: 1.626 AC.  
Area Disturbed: 0.70 AC./30,463 SF.  
Area to be roofed or paved: 0.106 AC. / 4,623 SF.  
Area to be vegetatively stabilized: 0.514 AC.  
Total Cut: 500 C.Y.  
Total Fill: 500 C.Y.  
Offsite waste/borrow area location
8. Any sediment control practice, which is disturbed by grading activity for placement of utilities, must be repaired on the same day of disturbance.
9. Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
10. 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.
11. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each workday, whichever is shorter.

**STANDARDS AND SPECIFICATIONS FOR TOPSOIL CONSTRUCTION AND MATERIAL SPECIFICATIONS**

- I. 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.
- II. Topsoil Specifications - Soil to be used as topsoil must meet the following:
- i. 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 clinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1" in diameter.
  - ii. Topsoil must be free of plants or plant parts such as bermuda grass, quack grass, Johnson grass, nutsedge, poison ivy, thistle, or others as specified.
  - iii. 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 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.
- III. For sites having disturbed areas under 5 acres:
- i. Place topsoil (if required) and apply soil amendments as specified in 2.0.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
- IV. For sites having disturbed areas over 5 acres:
- i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
    - a) 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.
    - b) Organic content of topsoil shall be not less than 1.5 percent by weight.
    - c) Topsoil having soluble salt content greater than 500 parts per million shall not be used.
    - d) 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.
  - ii. 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.
  - iii. Place topsoil (if required) and apply soil amendments as specified in 2.0.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
- V. Topsoil Application
- i. 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.
  - ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4"-8" higher in elevation.
  - iii. 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.
  - iv. 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.
  - v. 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.
- VI. 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:
- i. Composted sludge material for 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:
    - a) Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
    - b) 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.
    - c) Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
  - ii. 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.

**DETAIL 33 - SUPER SILT FENCE**



**CONSTRUCTION SPECIFICATIONS**

FENCING SHALL BE 42" IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST MARYLAND STATE HIGHWAY DETAILS FOR CHAIN LINK FENCING. THE SPECIFICATION FOR A 6' FENCE SHALL BE USED, SUBSTITUTING 42" FABRIC AND 6' LENGTH POSTS.

1. THE POLES DO NOT NEED TO SET IN CONCRETE

2. CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES. THE LOWER TENSION WIRE, BRACE AND TRUSS RODS, DRIVE ANCHORS AND POST CAPS ARE NOT REQUIRED EXCEPT ON THE ENDS OF THE FENCE.

3. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID SECTION.

4. FILTER CLOTH SHALL BE EMBEDDED A MINIMUM OF 8" INTO THE GROUND.

5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.

6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT BUILDUPS REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE, OR WHEN SILT REACHES 50% OF FENCE HEIGHT

7. FILTER CLOTH SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F.

TENSILE STRENGTH	50 LBS/IN (MIN)	TEST: MSMT 509
TENSILE MODULUS	20 LBS/IN (MIN)	TEST: MSMT 509
FLOW RATE	0.3 GAL/FT <sup>2</sup> /MINUTE (MAX)	TEST: MSMT 322
FILTERING EFFICIENCY	75% (MIN)	TEST: MSMT 322

**DESIGN CRITERIA**

SLOPE	SLOPE STEEPNESS	SLOPE LENGTH (MAXIMUM)	SILT FENCE LENGTH (MAXIMUM)
0 - 10%	0 - 10:1	UNLIMITED	UNLIMITED
10 - 20%	10:1 - 5:1	200 FEET	1,500 FEET
20 - 33%	5:1 - 3:1	100 FEET	1,000 FEET
33 - 50%	3:1 - 2:1	100 FEET	500 FEET
50% +	2:1 +	50 FEET	250 FEET

**HOWARD SOIL CONSERVATION DISTRICT PERMANENT SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONGLIVED 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 ONE OF THE FOLLOWING SCHEDULES:

- 1) PREFERRED- APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (42 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (4 LBS./1000 SQ.FT.)
- 2) ACCEPTABLE- APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (42 LBS./1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK 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 (14 LBS./1000 SQ.FT.) OF KENTUCKY 31" TALL FESCUE, FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS. KENTUCKY 31" TALL FESCUE PER ACRE AND 2 LBS. PER ACRE 5 LBS./1000 SQ.FT.) 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 TON/ACRE WELL-ANCHORED STRAW.

MULCHING- APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING, ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING A MULCH ANCHORING TOOL OR 2 1/2 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS OR 8 FEET OR HIGHER, USE 3 1/2 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE- INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**TEMPORARY SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED 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.

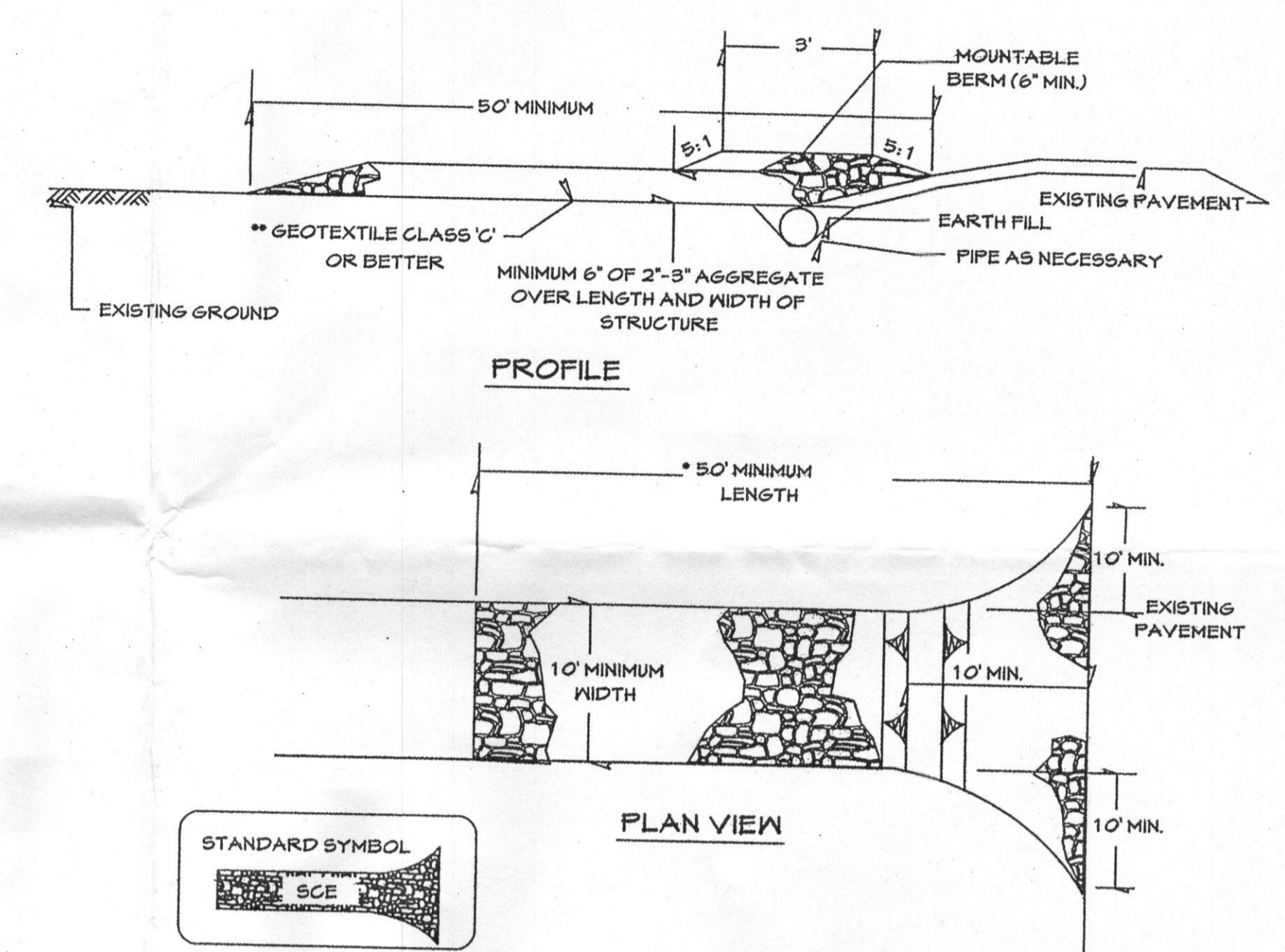
SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 15 THROUGH OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (5.2 LBS./1000 SQ.FT.) FOR THE PERIOD OF MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.7 LBS./1000 SQ.FT.) FOR THE PERIOD OF NOVEMBER 16 THROUGH NOVEMBER 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 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING, ANCHOR IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 3 1/2 GAL. PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

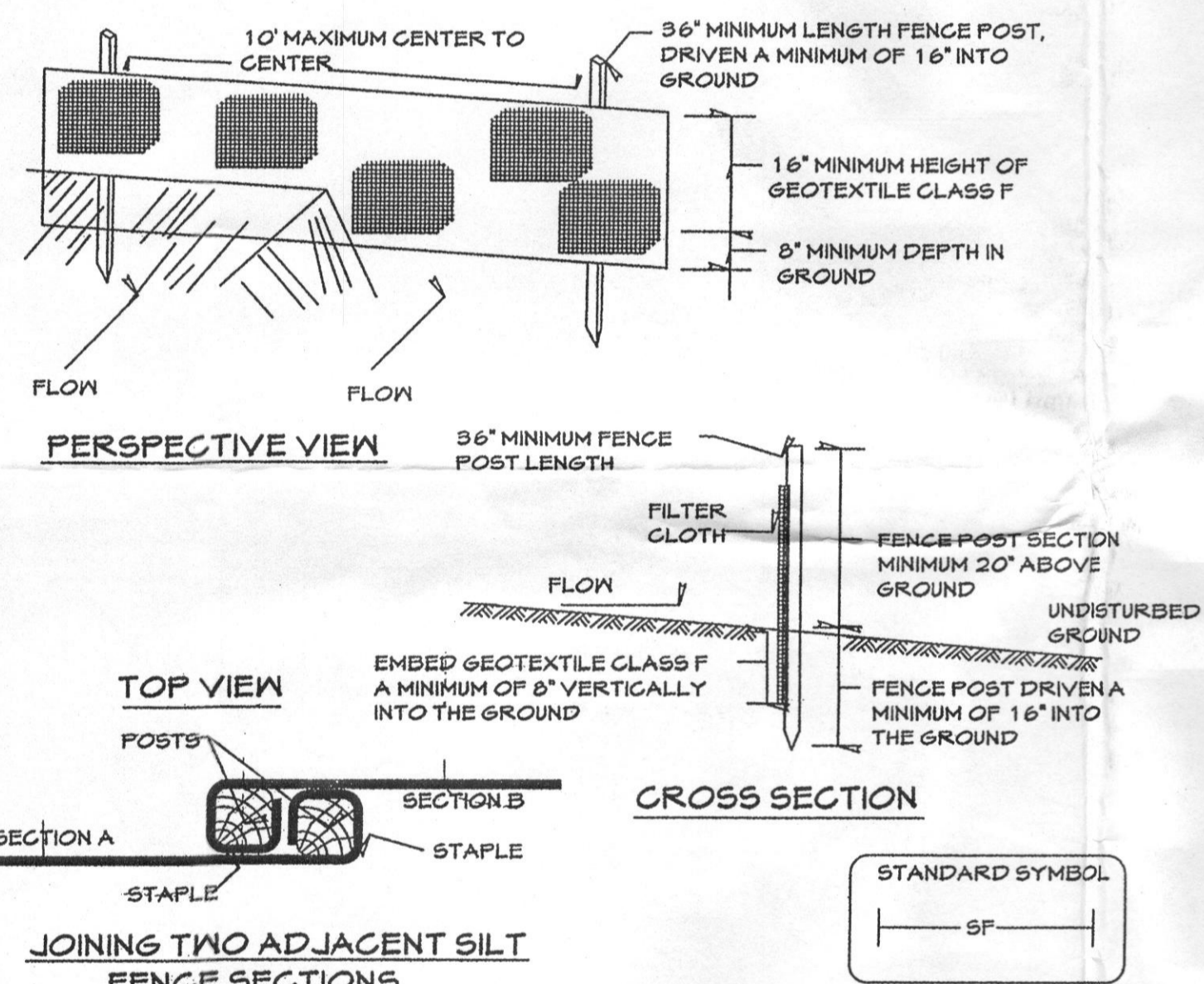
REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

**DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE**



1. LENGTH - MINIMUM OF 50' (30' FOR SINGLE RESIDENCE LOT).
2. WIDTH - 1'0" MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. \*\*THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.
4. STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPE HAS TO BE SIZED ACCORDING TO THE DRAINAGE. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED. A 6" MINIMUM WILL BE REQUIRED.
6. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.

**DETAIL 22 - SILT FENCE**



**Construction Specifications**

1. FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. WOOD POSTS SHALL BE 1 1/2" X 1 1/2" SQUARE (MINIMUM) CUT, OR 1 1/2" DIAMETER (MINIMUM) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD T OR U SECTION WEIGHING NOT LESS THAN 1.00 POUND PER LINEAR FOOT.
  2. GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:
- |                      |                                       |                |
|----------------------|---------------------------------------|----------------|
| TENSILE STRENGTH     | 50 LBS/IN (MIN)                       | TEST: MSMT 509 |
| TENSILE MODULUS      | 20 LBS/IN (MIN)                       | TEST: MSMT 509 |
| FLOW RATE            | 0.3 GAL/FT <sup>2</sup> /MINUTE (MAX) | TEST: MSMT 322 |
| FILTERING EFFICIENCY | 75% (MIN)                             | TEST: MSMT 322 |
3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS.
  4. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED 50% OF THE FABRIC HEIGHT.

**Silt Fence Design Criteria**

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

NOTE: IN AREAS OF LESS THAN 2% SLOPE AND SANDY SOILS (USDA GENERAL CLASSIFICATION SYSTEM, SOIL CLASS A) MAXIMUM SLOPE LENGTH AND SILT FENCE LENGTH WILL BE UNLIMITED. IN THESE AREAS A SILT FENCE MAY BE THE ONLY PERIMETER CONTROL REQUIRED.

**GP-08-44**

**SEDIMENT CONTROL PLAN**  
LOT #2B & 2C  
#12386 HOWARD LODGE DRIVE  
**NELSON PROPERTY**  
3RD ELECTION DISTRICT • HOWARD COUNTY, MARYLAND  
DEED REFERENCE 1982/280  
TAX MAP: 9 PARCEL: 306 GRID: 12

DATE	REVISIONS

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. 23440 Expiration Date: 8-28-08

BY THE ENGINEER:  
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Michael L. Hanson* #23440 12-12-07  
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE  
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THIS 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 INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

*John R. Patton* 12/18/07  
SIGNATURE OF DEVELOPER DATE

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

*John R. Patton* 12/20/07  
HOWARD SOIL CONSERVATION DISTRICT DATE

FREDERICK OFFICE: 6745 Progress Drive, Suite 88, Frederick, MD 21701-4879, (301) 662-1799, FAX (301) 662-3004

WESTMINSTER OFFICE: 439 East Main Street, Westminster, MD 21157-5539, (410) 848-1790, FAX (410) 848-1791

**CLSI**  
Civil, Land Development & Environmental Consultants  
www.clsi-civileng.com

Professional Engineer Registration No. 23-446  
Alfred L. Hanson  
10-2-07  
Drawing No. 2006 166  
Sheet 2 OF 3

CAD Drawing File Name: G:2006\2006\166\dam\seedcon\_plan\_23.dwg

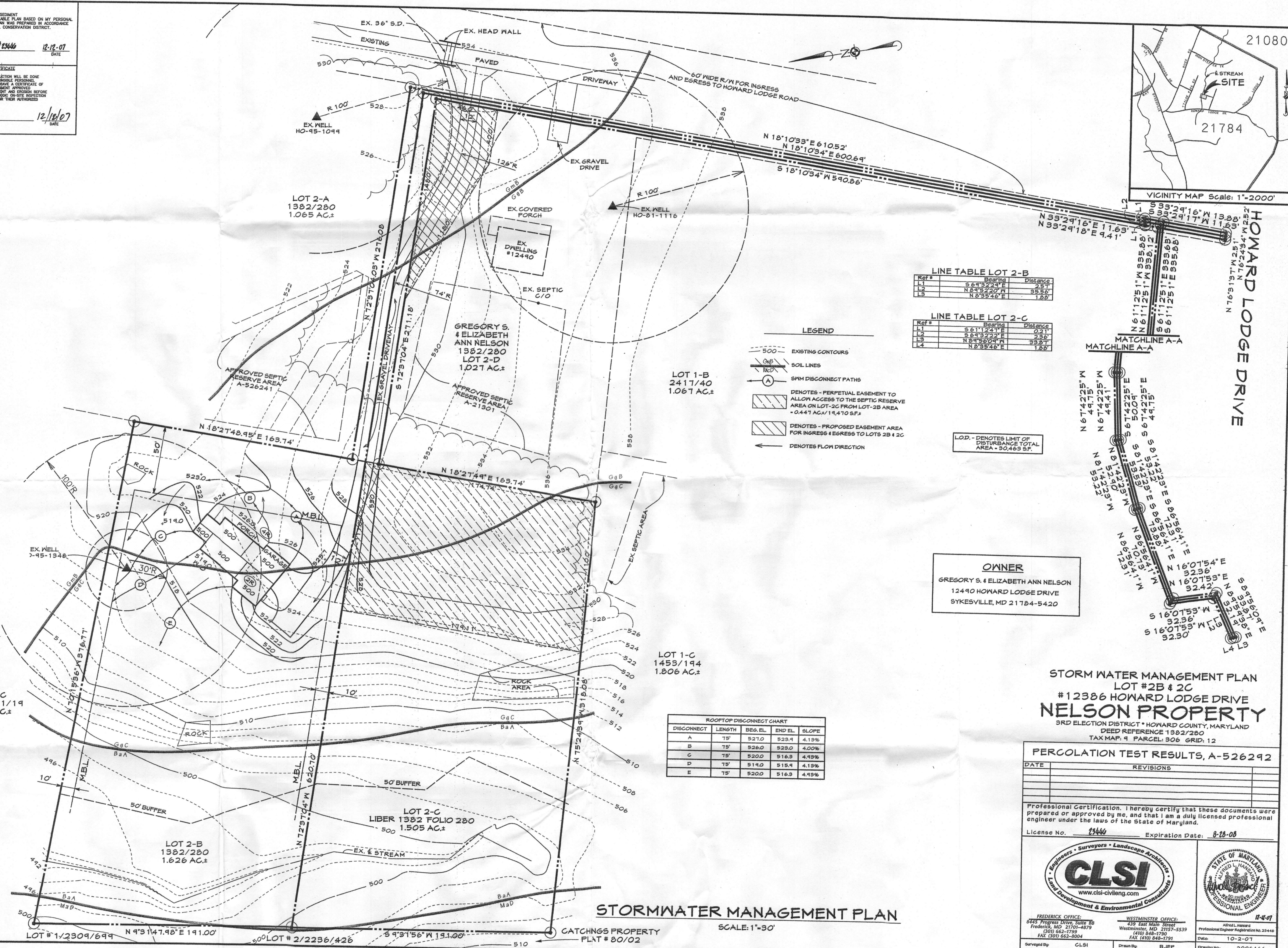
BY THE ENGINEER:  
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Alfred L. Hensel* #2346 12-12-07  
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE  
 I 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 AS A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZED PERSONS ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS AND FROM TIME TO TIME.

*Gregory S. Nelson* 12/12/07  
 SIGNATURE OF DEVELOPER DATE

CAD Drawing File Name: 6-2006/2006166/dam/smm\_plan\_2E.dgn



**LINE TABLE LOT 2-B**

Ref #	Bearing	Distance
L1	S 64°32'24" E	2.57
L2	N 84°32'20" W	35.55
L3	N 8°55'46" E	1.89

**LINE TABLE LOT 2-C**

Ref #	Bearing	Distance
L1	S 61°11'24" E	0.21
L2	S 64°32'20" W	2.36
L3	N 84°32'20" W	33.87
L4	N 8°55'46" E	1.88

- LEGEND**
- EXISTING CONTOURS
  - SOIL LINES
  - SWM DISCONNECT PATHS
  - DENOTES - PERPETUAL EASEMENT TO ALLOW ACCESS TO THE SEPTIC RESERVE AREA ON LOT-2C FROM LOT-2B AREA = 0.447 AC±/11,470 S.F.
  - DENOTES - PROPOSED EASEMENT AREA FOR INGRESS & EGRESS TO LOTS 2B & 2C
  - DENOTES FLOW DIRECTION

LOD - DENOTES LIMIT OF DISTURBANCE TOTAL AREA = 30,463 S.F.

**OWNER**  
 GREGORY S. & ELIZABETH ANN NELSON  
 12490 HOWARD LODGE DRIVE  
 SYKESVILLE, MD 21784-5420

**ROOFTOP DISCONNECT CHART**

DISCONNECT	LENGTH	BEG. EL.	END EL.	SLOPE
A	75'	527.0	523.4	4.19%
B	75'	526.0	523.0	4.00%
C	75'	520.0	516.3	4.98%
D	75'	514.0	515.4	4.19%
E	75'	520.0	516.3	4.98%

**STORM WATER MANAGEMENT PLAN**  
 LOT #2B & 2C  
 #12386 HOWARD LODGE DRIVE  
**NELSON PROPERTY**  
 3RD ELECTION DISTRICT • HOWARD COUNTY, MARYLAND  
 DEED REFERENCE 1382/280  
 TAX MAP: 9 PARCEL: 306 GRID: 12

**PERCOLATION TEST RESULTS, A-526292**

DATE	REVISIONS

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. 2346 Expiration Date: 8-28-08

**CLSI**  
 Civil Engineering & Environmental Consultants  
 www.clsi-civileng.com

Professional Engineer Registration No. 20446  
 Date: 10-2-07  
 Drawing No. 2006166  
 Sheet: 9 OF 9

FREDERICK OFFICE: 6433 Progress Drive, Suite B8, Frederick, MD 21701-4879, (301) 862-1790, FAX (301) 662-8004  
 WESTMINSTER OFFICE: 439 East Main Street, Westminster, MD 21157-5339, (410) 848-1790, FAX (410) 848-1791

**STORMWATER MANAGEMENT PLAN**  
 SCALE: 1"=30'

**HOWARD LODGE DRIVE**

