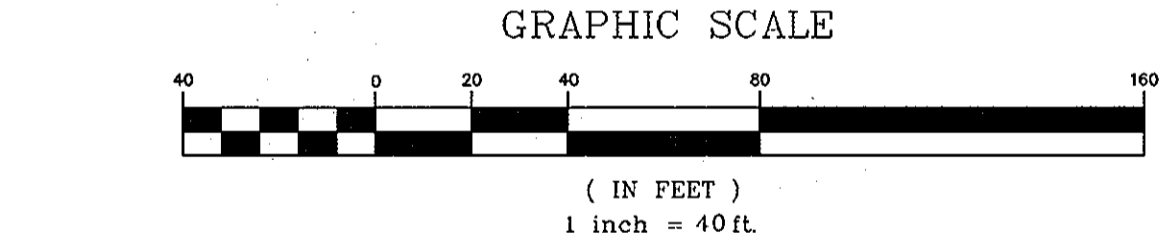


SOILS LEGEND

MAP SYMBOL	SOIL GROUP	SOIL TYPE
Rsb	C	RUSSETT FINE SANDY LOAM, 2 TO 5 PERCENT SLOPES
Rsc	C	RUSSETT FINE SANDY LOAM, 5 TO 10 PERCENT SLOPES
Usb	D	URBAN LAND-SASSAFRAS-BELTSVILLE COMPLEX, 0 TO 5 PERCENT SLOPES

TAKEN FROM HOWARD COUNTY SOILS SURVEY, ISSUED MAY 2008, MAP NO. 28



DESIGN NARRATIVE:

THE SITE WAS ANALYZED AS WOODS IN GOOD CONDITION AND A TARGET RCN WAS DETERMINED. A TARGET RAINFALL DEPTH TREATMENT (Pe) WAS DETERMINED BASED ON THE MEASURED IMPERVIOUS AREAS AND HSG TYPES. THE TARGET Pe FOR THIS SITE IS 1.2 INCHES. THE TARGET Pe WAS TREATED USING ENVIRONMENTAL SITE DESIGN PRACTICES AS OUTLINED IN CHAPTER 5 OF THE 2000 MARYLAND STORMWATER DESIGN MANUAL, AS AMENDED BY MARYLAND'S STORMWATER MANAGEMENT ACT OF 2007. THE SELECTED METHODS ARE BIOTENTION, ROOFTOP AND NON-ROOFTOP DISCONNECT AND AN INFILTRATION BERM.

THIS SITE HAS NO SENSITIVE ENVIRONMENTAL FEATURES. TO PROTECT NATURAL RESOURCES IN GENERAL, IT IS IMPORTANT TO MINIMIZE AND ADEQUATELY TREAT THE STORMWATER RUNOFF. THE DESIGN INCORPORATES MODERATELY SIZED HOUSES WITH MINIMUM WIDTH DRIVEWAYS IN ORDER TO CREATE THE LEAST POSSIBLE STORMWATER RUNOFF. THE RUNOFF WILL BE TREATED ON-SITE USING APPROVED METHODS. OUTFALLS GENERALLY CORRESPOND WITH THE NATURAL DRAINAGE PATTERNS FOR THE SITE.

SEDIMENT AND EROSION CONTROLS HAVE BEEN DESIGNED BASED ON THE 1994 MARYLAND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. EROSION CONTROL MATTING AND SUPER SILT FENCE WILL BE USED TO PREVENT RUNOFF CONTAINING UNACCEPTABLE LEVELS OF TSS FROM LEAVING THE SITE AND ENTERING THE ADJACENT WETLANDS DURING THE CONSTRUCTION. IT WILL BE THE OBLIGATION OF THE CONTRACTOR TO INSTALL, INSPECT AND MAINTAIN THESE PRACTICES.

THE TARGET Pe FOR THIS SITE IS 1.2 INCHES. BY USING ENVIRONMENTAL SITE DESIGN PRACTICES AS OUTLINED IN CHAPTER 5 OF THE 2000 MARYLAND STORMWATER DESIGN MANUAL AS AMENDED BY MARYLAND STORMWATER MANAGEMENT ACT OF 2007, FULL TREATMENT OF THE TARGET Pe OF 1.2 WAS ACHIEVED, FULLY ADDRESSING THE STORMWATER MANAGEMENT REQUIREMENTS.

GENERAL NOTES

- SUBJECT PROPERTY ZONED R-SC PER THE 2-2-04 COMPREHENSIVE ZONING PLAN AND THE COMP LITE ZONING AMENDMENTS EFFECTIVE 7-28-06.
- THIS PROJECT IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE ZONING REGULATIONS EFFECTIVE APRIL 13, 2004.
- PROJECT BOUNDARY AND TOPOGRAPHY WITHIN THE SUBDIVISION AREA ARE BASED ON FIELD RUN BOUNDARY SURVEY AND TOPO PERFORMED BY BENCHMARK ENGINEERING, INC. DATED JANUARY, 2011.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM, OR THEIR REQUIRED BUFFERS UNLESS DEEMED NECESSARY BY THE DEPARTMENT OF PLANNING AND ZONING.
- NO 100-YEAR FLOODPLAIN IS LOCATED WITHIN THE PROJECT BOUNDARIES.
- THERE IS AN EXISTING STRUCTURE LOCATED ON THIS SITE TO BE RETAINED.
- THERE ARE NO CEMETERIES LOCATED ON THIS SITE.
- THE FOREST CONSERVATION ACT OBLIGATION FOR THIS PROJECT WILL BE MET BY A COMBINATION OF ON-SITE AFFORESTATION AND PAYMENT OF FEE-IN-LIEU.
- PREVIOUS OF2 FILES: WP-12-023, APPROVED DECEMBER 8, 2011, GRANTED OPEN SPACE CREDIT FOR AREAS LESS THAN 35' ON WIDTH.
- APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION AND/OR SITE DEVELOPMENT PLAN.
- REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION AND/OR SITE DEVELOPMENT PLAN STAGES. THEREFORE, THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED COMMENTS (INCLUDING THOSE THAT MAY ALTER OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES.

SITE ANALYSIS DATA/TABULATION

A) TOTAL PROJECT AREA.....	1.40± AC.
B) AREA OF WETLANDS AND BUFFER.....	0.00 AC.
C) AREA OF 100-YR. FLOODPLAIN.....	0.00 AC.
D) AREA OF FOREST.....	0.00 AC.
E) AREA OF STEEP SLOPES 25% OF GREATER.....	0.00 AC.
F) AREA OF DEDICATION.....	0.00 AC.
G) ERODIBLE SOILS.....	0.00 AC.
H) NUMBER OF UNITS ALLOWED.....	4
I) NUMBER OF RESIDENTIAL UNITS PROPOSED.....	4
J) AREA OF PLAN SUBMISSION.....	1.40± AC.
K) LIMIT OF DISTURBED AREA.....	0.95± AC.
L) OPEN SPACE REQUIRED.....	0.35± AC.
M) OPEN SPACE PROVIDED.....	0.40± AC.
N) PRESENT ZONING DESIGNATION.....	R-SC
O) PROPOSED USES FOR THE SITE: SINGLE FAMILY DETACHED DWELLINGS	
P) IMPERVIOUS COVER.....	0.30± AC.

PROJECT: LePore Property DATE: 09/20/11

ESD STORMWATER COMPUTATIONS JOB NO: 2384

Step 1 - Determine ESD Implementation Goals

Site Data:

Location: Howard County, Maryland

Effective Site Area: 1.277 Ac. (Site less existing roadway, which drains away from the site)

Soils: % of Area	"A"	"B"	"C"	"D"	92%
Impervious Area:	0	0	0	8.1%	11,852
% Impervious: 21%					

A. Determine Pre-Developed Conditions:

Soil Conditions:	HSG	RCN*	Area	Percent
A**	38	0	0%	
B	55	0	0%	
C	70	4,480	8%	
D	77	51,132	92%	

* RCN for woods in good condition from TR-55
** Actual RCN is less than 30, use RCN = 38

Calculate Composite:

RCN = 38 x 0 + 55 x 0 + 70 x 4,480 + 77 x 51,132 = 76
(w woods in good condition)

The target RCN for "woods in good condition" is 76

PROJECT: LePore Property DATE: 10/21/11

ESD STORMWATER COMPUTATIONS JOB NO: 2384

B. Determine Target PE Using Table 5.3:

Proposed Imperviousness: 21% → 1.20

%I in "D" soils: 21% → 1.20

Hydrologic Soil Group D					
%I	RCN	PE = 1"	1.2"	1.4"	1.6"
0%	80	1.2	1.2	1.2	1.2
5%	81	1.2	1.2	1.2	1.2
10%	82	1.2	1.2	1.2	1.2
15%	83	1.2	1.2	1.2	1.2
20%	84	1.2	1.2	1.2	1.2
25%	85	1.2	1.2	1.2	1.2
30%	86	1.2	1.2	1.2	1.2
35%	87	1.2	1.2	1.2	1.2
40%	88	1.2	1.2	1.2	1.2

C. PE ≥ 1.20 inches will reduce the RCN to reflect "woods in good condition".

PE = PE x Rv

PE = 1.20 inches

Rv = 0.05 * (0.009/1); 1 = Specific % Impervious for each facility

PROJECT: LePore Property DATE: 10/21/11

ESD STORMWATER COMPUTATIONS JOB NO: 2407

Practices and Sizing: Soils = "D" S = 0.07

Drainage Area MB-1		Treated by Micro-Bio-retention		Storage Computation, MB-1	
Total Drainage Area	Impervious Area	Swale Area	Average Contour Interval	Volume	Total
17911 s.f.	6826 s.f.	0	0	0	0
Rv = 0.305	2090	434	0	0	0
ESDV = 703.9 c.f.					
Rv = 41.1 c.f.	2800	776	605	1.0	6050
75% Ret'd Storage + Rev. Add Rev for GS-1	591				605

Drainage Area RC-2		Treated by Rain Garden		Storage Computation, MB-2	
Total Drainage Area	Impervious Area	Swale Area	Average Contour Interval	Volume	Total
31009 s.f.	2167 s.f.	0	0	0	0
Rv = 0.078	2810	91	0	0	0
ESDV = 210.5 c.f.					
Rv = 12.3 c.f.	2620	252	1715	1.0	1715
75% Ret'd Storage + Rev	170				172

Drainage Area GS-1		Treated by Grass Swale		Storage Computation, GS-2	
Total Drainage Area	Impervious Area	Swale length	Bottom width	Volume	Total
7138 s.f.	3765 s.f.	211 ft	3	0	0
Rv = 0.255	374.5 c.f.				
ESDV = 374.5 c.f.					
Rv (Provided in MB-1) = 21.8 c.f.	281				281
75% Ret'd Storage					281

SHEET INDEX

NO.	DESCRIPTION
1	ENVIRONMENTAL CONCEPT PLAN
2	SEDIMENT AND EROSION CONTROL PLAN NOTES AND DETAILS

BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS

8480 BALTIMORE NATIONAL PIKE A SUITE 418 A BELLOTT CITY, MARYLAND 21104
(P) 410-465-6105 (F) 410-465-6644
60 THOMAS JOHNSON DRIVE A FREDERICK, MARYLAND 21702
(P) 301-371-3505 (F) 301-371-3506
WWW.BE-ENGINEERING.COM

LEPORE PROPERTY

9291 WHISKEY BOTTOM ROAD

TAX MAP: 50 GRID: 4 PARCEL: 438
ZONED: R-SC
ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND

ENVIRONMENTAL CONCEPT PLAN

OWNER: ESTATE OF REGENE AND PAUL LE PORE
9112 GROSS AVENUE
LAUREL, MARYLAND 20723
301-490-8732

DEVELOPER: 9291 WHISKEY BOTTOM ROAD, LLC
9112 GROSS AVENUE
LAUREL, MARYLAND 20723
301-490-8732

DATE: AUGUST, 2011 BEI PROJECT NO. 2384
DESIGN: AAM DRAWN: AAM SCALE: 1" = 40' SHEET 1 OF 2

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Kent S. ... 11/12/11
CHIEF, DIVISION OF LAND DEVELOPMENT

... 11/12/11
CHIEF, DEVELOPMENT ENGINEERING DIVISION

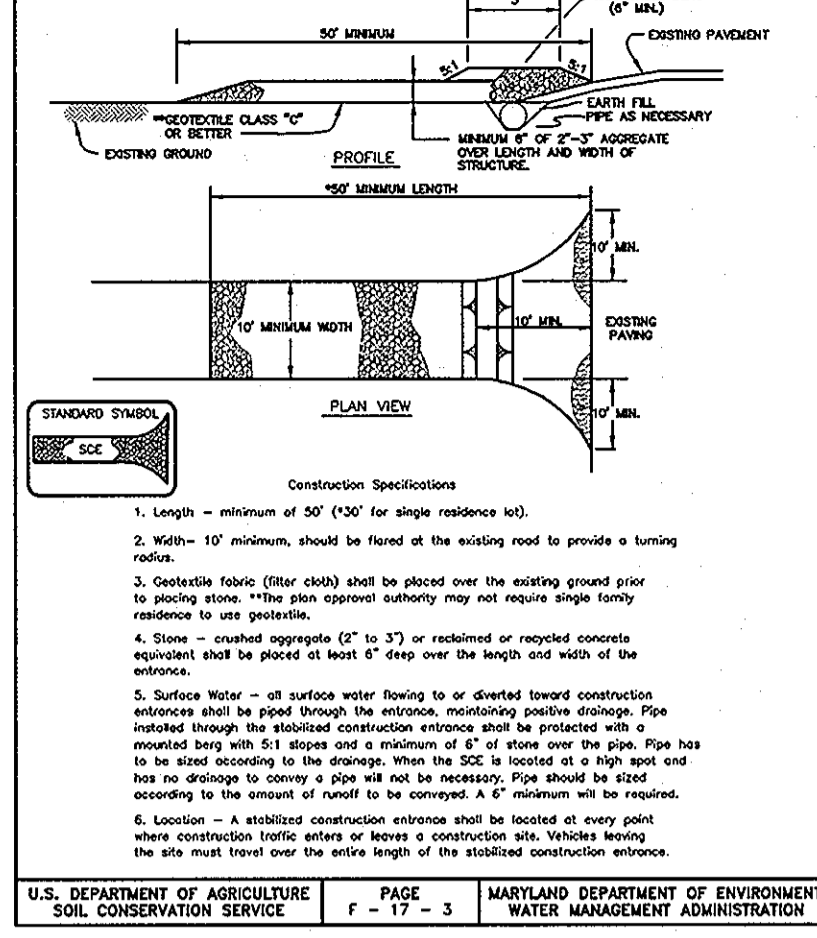
SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSING AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION, (313-1850).
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE 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", REVISIONS THERE TO.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, Dikes, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1 TO 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 SEEDINGS (SEC. 51) SOO (SEC. 52), TEMPORARY SEEDINGS (SEC. 52), AND MULCHING (SEC. 52), TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING RATES 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 PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7. SITE ANALYSIS:
TOTAL AREA OF SITE 1.4 ACRES
AREA DISTURBED 0.95 ACRES
AREA TO BE ROOFED OR PAVED 0.30 ACRES
AREA TO BE VEGETATIVELY STABILIZED 0.65 ACRES
TOTAL CUT 1171 CY
TOTAL FILL 1169 CY
OFFSITE WASTE AREA LOCATION A SITE WITH AN ACTIVE GRADING PERMIT

TOPSOIL SPECIFICATIONS

- I. Topsoil salvaged from the existing site may be used provided that it meets that 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:
1. 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 textures and shall contain less than 5% by volume of cinders, stones, sticks, coarse fragments, gravel, shells, roots, trash, or other materials larger than 1 1/2" in diameter.
2. Topsoil must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nutgrass, poison ivy, bitrite, or others as specified.
3. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-6 tons/acre (200-300 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:
1. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
IV. For sites having disturbed areas over 5 acres:
1. 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 or 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) for the growth of phytotoxicity to subside.
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.
II. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
V. Topsoil Application
1. When topsoiling, maintain needed erosion and sediment control practices such as diversional structures, grade stabilization structures, earth dikes, slope silt fence and sediment traps and basins.
2. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, except a 2" higher in elevation.
3. 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 adding 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.
4. 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 amendments may be applied as specified below:
1. 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.
d. 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.
Reference: Guidelines Specifications, Soil Preparation and Seeding, MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes, Revised 1993.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

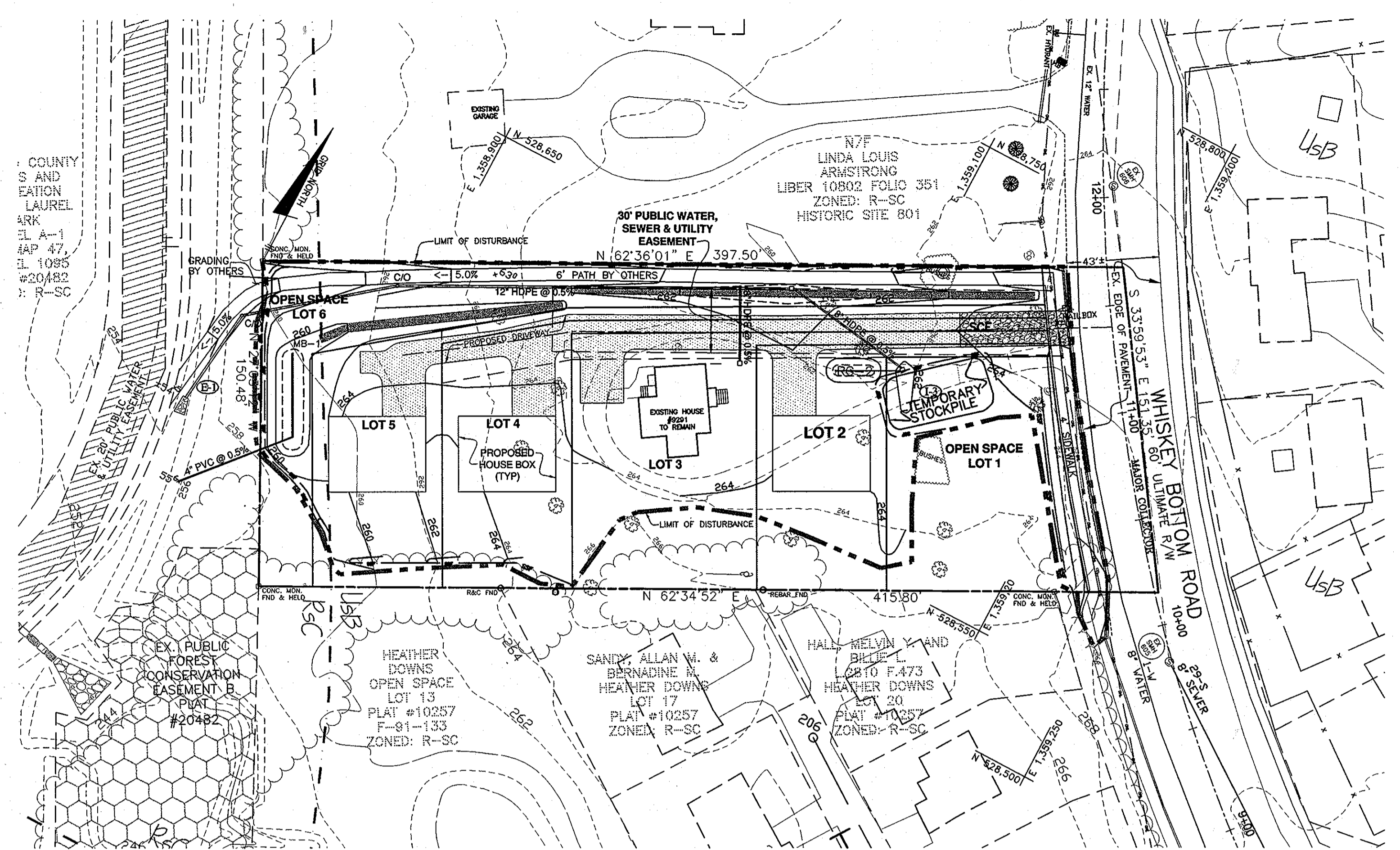


LEGEND

- EXISTING CONTOURS
SOIL DELINEATION
EXISTING FOREST LINE
PROPOSED WOODS LINE
EXISTING HOUSES
PROPOSED HOUSES
PROPERTY BOUNDARY
PROPOSED PAVEMENT
FACILITY DRAINAGE AREA
LIMIT OF DISTURBANCE
SILT FENCE
STABILIZED CONSTRUCTION ENTRANCE
EROSION CONTROL MATTING
STORM DRAIN DRAINAGE AREA

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT. (DAY 1)
2. INSTALL SEDIMENT CONTROL DEVICES (DAY 2-4)
3. UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, BRING SITE TO GRADE AND STABILIZE SWALES IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES, UTILIZE DUST CONTROL METHODS. (DAY 5-20)
4. INSTALL UTILITIES, FINAL GRADE AND PAVE DRIVEWAY, PERMANENTLY STABILIZE SWALES. (DAY 21-34)
5. WHEN CONTRIBUTING AREAS TO MICRO-BIOTRENTATION AND RAIN GARDEN ARE ARE STABILIZED, INSTALL PLANTING SOIL AND PLANTINGS. (DAY 35-40)
6. UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES, AND STABILIZED DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDBED NOTES. (DAY 40-44)



TEMPORARY SEEDBED PREPARATIONS

- 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, DISCOING 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 PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.7 LBS/1000 SQ FT). 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 SOO.
MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 80 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER SEEDING USING MULCH ANCHORING TOOL, OR 216 GALLONS PER ACRE (8 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES, 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.
REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

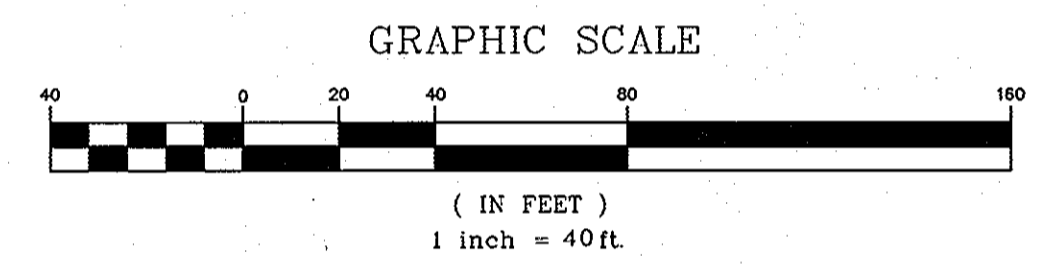
30.0 DUST CONTROL

- Controlling dust blowing and movement on construction sites and roads.
DUSTS
To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site damage, health hazards, and improve traffic safety.
Conditions Where Practice Applies
This practice is applicable to areas subject to dust blowing and movement where on and off-site damage is likely without treatment.
Temporary Methods
Specifications
1. Mulches - See standards for vegetative stabilization with mulches only. Mulch should be crimped or tracked to prevent blowing.
2. Vegetative Cover - See standards for temporary vegetative cover.
3. Tillage - To roughen surface and bring clods to the surface. This is an emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12' apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effects.
4. Irrigation - This is generally done as an emergency treatment. Site is sprinkled with water until the surface is moist. Repeat as needed. At no time should the site be irrigated to the point that runoff begins to flow.
5. Barriers - Solid board fences, silt fences, snow fences, burlap fences, straw bales, and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 10 times their height are effective in controlling soil blowing.
6. Calcium Chloride - Apply at rates that will keep surface moist. May need retreatment.

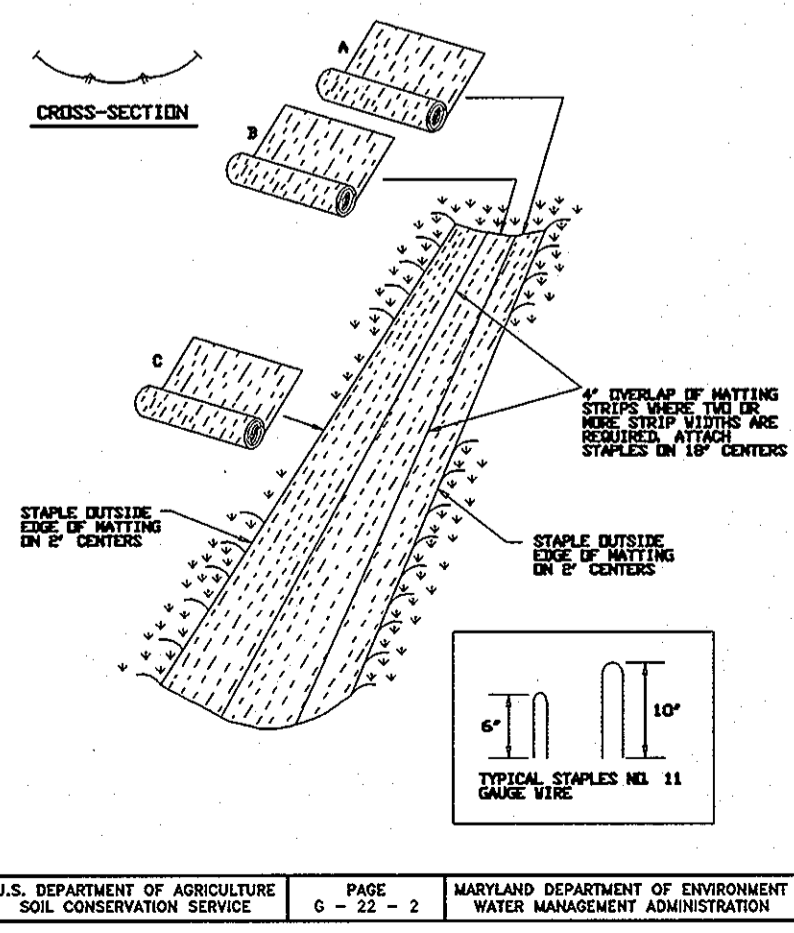
PERMANENT SEEDBED PREPARATIONS

- SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCOING 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 (92 LBS/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) 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 SQ FT).
2. ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) 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 (14 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.5 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 SOO. OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.
MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 80 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL, OR 216 GALLONS PER ACRE (8 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.
MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

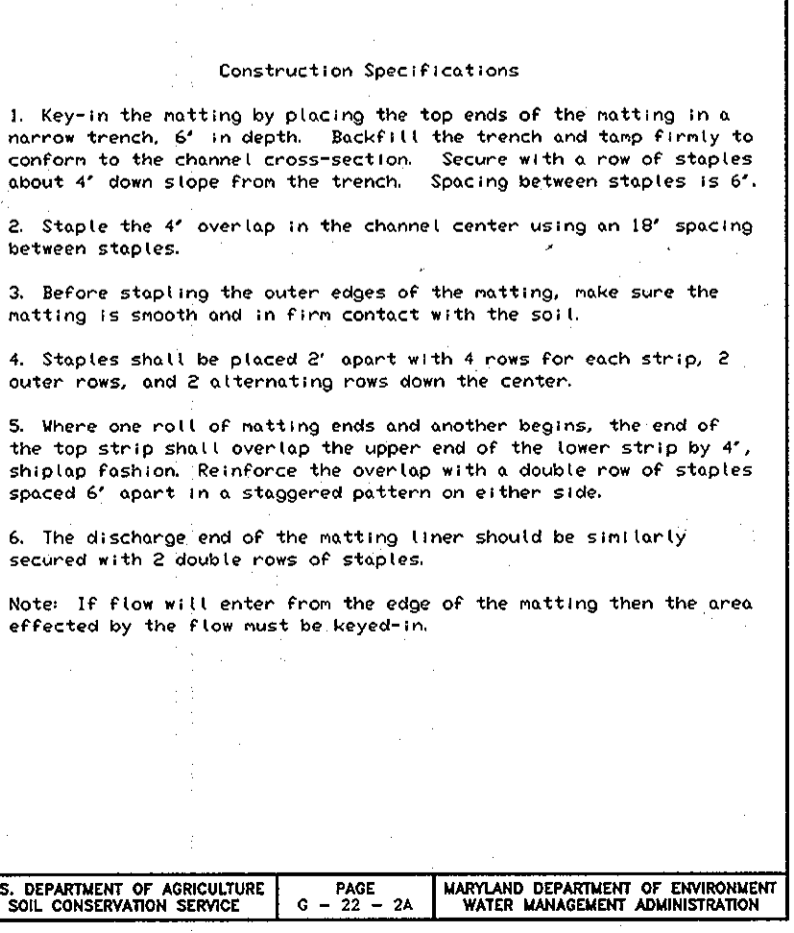
SOILS LEGEND
MAP SYMBOL SOIL GROUP SOIL TYPE
Rsb C RUSSETT FINE SANDY LOAM, 2 TO 5 PERCENT SLOPES
Rsc C RUSSETT FINE SANDY LOAM, 5 TO 10 PERCENT SLOPES
U8b D URBAN LAND-SASSAFRAS-BELTSVILLE COMPLEX, 0 TO 5 PERCENT SLOPES
TAKEN FROM HOWARD COUNTY SOILS SURVEY, ISSUED MAY 2008, MAP NO. 28



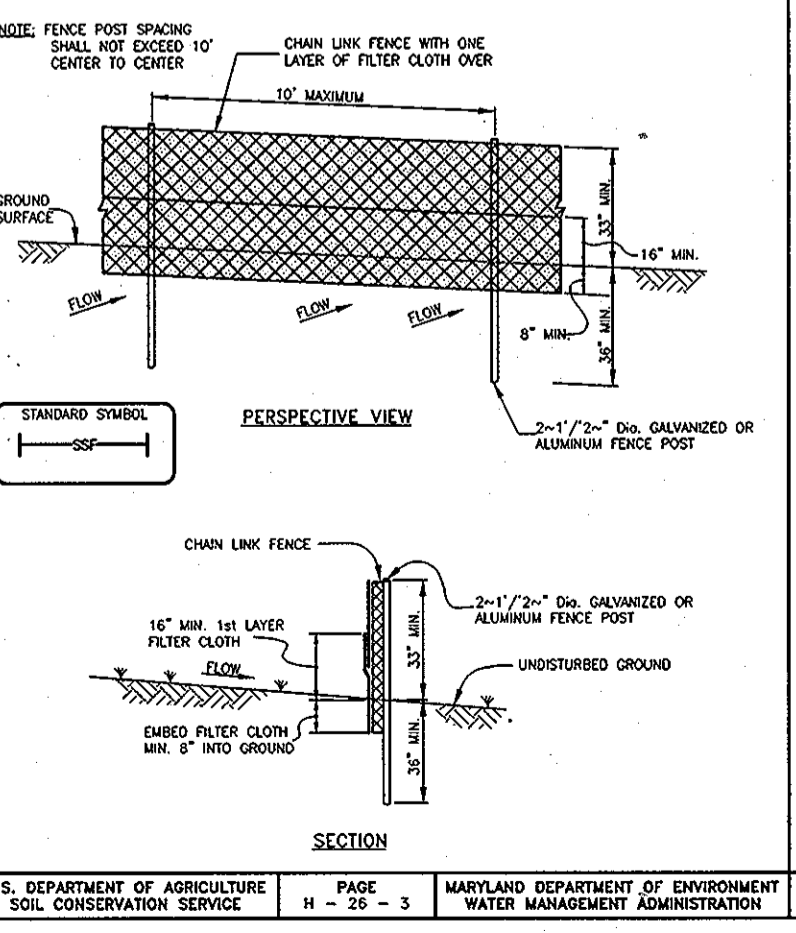
DETAIL 30 - EROSION CONTROL MATTING



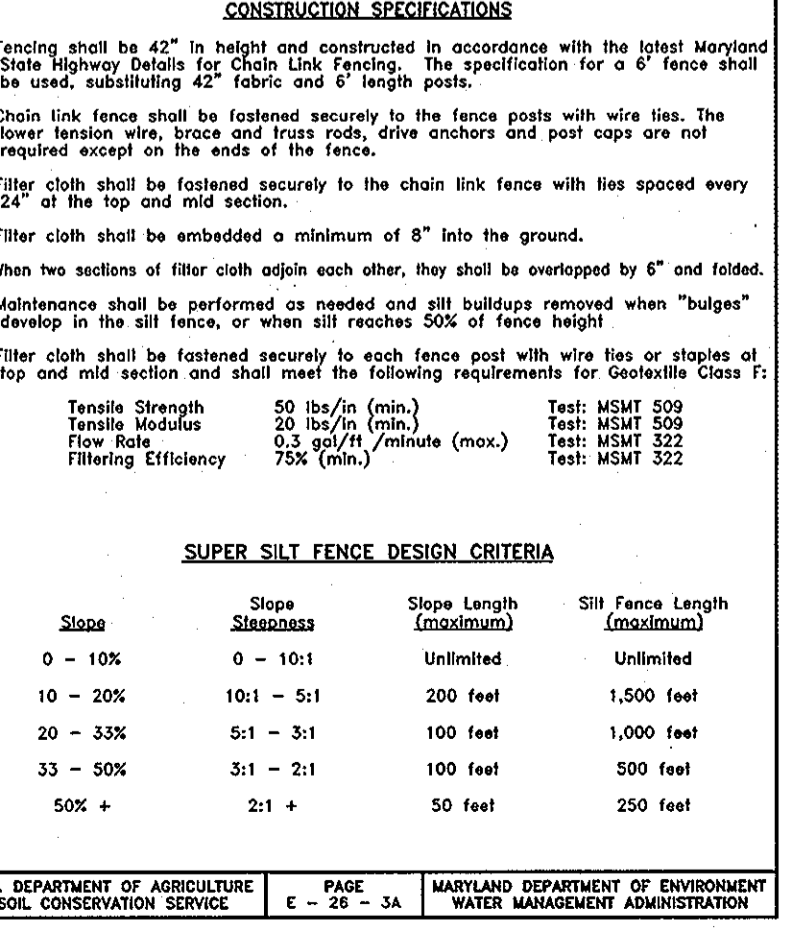
DETAIL 30 - EROSION CONTROL MATTING



DETAIL 33 - SUPER SILT FENCE



SUPER SILT FENCE



APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature]
CHIEF, DIVISION OF LAND DEVELOPMENT
[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 4/12/12

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. 19707B, expiring Date: 1/1/2013.
BENCHMARK ENGINEERING, INC.
6480 BALTIMORE NATIONAL PIKE & SUITE 415 & ELLIOTT CITY, MARYLAND 21043
(7) 410-465-6105 (7) 410-465-8844
60 THOMAS JOHNSON DRIVE & FREDERICK, MARYLAND 21702
(7) 301-371-3005 (7) 301-371-3506
www.bep-cvleengineering.com
OWNER: ESTATE OF REGENE AND PAUL LE PORE
9112 GROSS AVENUE LAUREL, MARYLAND 20723 301-490-8732
DEVELOPER: 9291 WHISKEY BOTTOM ROAD, LLC
9112 GROSS AVENUE LAUREL, MARYLAND 20723 301-490-8732
LEPORE PROPERTY
9291 WHISKEY BOTTOM ROAD
TAX MAP: 50 GRID: 4 PARCEL: 438
ZONED: R-SC
ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND
SEDIMENT AND EROSION CONTROL PLAN, NOTES AND DETAILS
DATE: JULY, 2011 BEI PROJECT NO. 2384
DESIGN: AAM DRAWN: AAM SCALE: 1" = 40' SHEET 2 OF 2