

Conditions Where Practice Applies

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

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

This practice is limited to areas having 2:1 or flatter slopes where:

- a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative
- b. The soil material is shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
- c. The original soil to be vegetated contains material toxic to plant growth.
- d. The soil is so acidic that treatment with limestone is not feasible.
- . For the purpose of these standards nad 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 to provide that it meets the standards 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 USDA—SCS in cooperation with Maryland Agricultural Experimental Station.
- 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 cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.
- ii. Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, johnsongrass, 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.
- II. For sites having disturbed areas under 5 acres:
- i. Place topsoil (if required) and apply topsoil amendments as specified in 20.0 vegetative
- III. 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 perscribed 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 phyto-toxic 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
- ii. Place topsoil (if required) and apply soil amendments as specifiedin 20.0 Vegetative Stabilization - section I - Vegetative Stabilization Methods and Materials

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 4th. 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.
- iv. 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 perscribed amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
- a. Compacted sludge shall be supplied by, or organic from, a person or persons that are permitted (at the time of aquisition 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 per 1,000 square feet. iv. Compacted 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.

GENERAL SEDIMENT AND EROSION CONTROL NOTES

- 1. All sediment control measures shall be adjusted as necessary to meet field conditions at the time of construction, prior to any grading ar disturbances of existing surface material.
- 2. All sediment control measures shall be undertaken in strict conformance with approved plans and the standards and specifications approved by the Prince Georges County Soil Conservation District. 3. Periodic inspection and maintenance of all sediment control structures must
- be provided to insure that their intended purpose is accomplished. At the end of each work day, check all sediment control measures for integrity and proper operation. 4. It shall be the contractors responsibility to perform the work in a manner
- as to prevent the washing of any top soil, sediment or other debris onto adjacent properties. The Contractor shall be held liable for any such damages
- 5. All final grading shall be done in such a manner as to preclude any ponding of
- The Developer is responsible for the aquisition of all required easements, rights and/or rights of way pursuant to the discharge from the sediment and erosion control practices, stromwater management practices and the discharge of storm water onto or across the grading or other work to be performed on adjacent or downstream properties affected by this plan.
- Following the initial soil disturbance, or redisturbance, permanent or temporary stabilization shall be completed within: a) Seven calender days for the surface of all perimeter controls, dikes,
- to 1' vertical (3:1). b) Fourteen calendar days for all other disturbed or graded areas on the project The in place sediment control measures shall be maintained on a continuing basis

until the site is permanently stabilized and all other permit requirements have

swales, ditches, perimeter slopes, and all slopes steeper than 3' horizontal

- 8. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbing or
- grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made. 9. Approval shall be requested upon final stabilization of all sites with disturbed greas in excess of 2 gares before the removal of controls
- e. Disturbed surface area: 0.67 Ac. .

GdC - Galestown loamy sand, 8 - 15% slopes,

f. List of predominant soil types and general description per PGSCD Soil Survey: MnA - Matapeake silt loam, 0 - 2% slopes MoB2 - Matapeake silt loam, 2 - 5% slopes.

19.0 STANDARDS AND SPECIFICATIONS FOR LANDGRADING

Reshaping of the existing land surface in accordance with a plan as determined by engineering and survey layout.

The purpose of land grading specification is to provide for erosion control and vegetative establishment on those areas where existing land surface is to be reshaped by grading according to plan.

Design Criteria

The grading plan should be based upon the incorporation of building designs and street layouts that fit and utilize existing topography and desirable natural surrounding to avoid extreme grade modifications. Information submitted must provide sufficien topographic surveys and soil investigations to determine limitations that must be imposed on the grading operation related to slope stability, effect on adjacent properties and drainage patterns, measures for drainage and water removal and vegetative treatment, etc.

Many counties have regulations and design procedures already established for land grading and cut and fill slopes. Where these requirements exist, they shall be followed. The plan must show existing and proposed contours of the area(s) to be graded. The plan shall also include practices of erosion control, slope stabilization, safe disposal of runoff water and drainage, such as waterways, lined ditches, reverse slope benches (include grade and cross section), grade stabilization structures, retaining walls, and surface and subsurface drains. The plan shall also include phasing of these practices. The following shall be incorporated into this plan:

- 1. Provisions shall be made to safely conduct surface runoff to storm drains, protected outlets or to stable water courses to insure that surface runoff will not damage slopes or other graded greas.
- 2. Cut and fill slopes that are to be stabilized with grasses shall not be steeper than 2:1. (Where the slope is to be mowed, the slope should be no steeper than 3:1. 4:1 is preferred because of safety factors related to mowing steep slopes.) Slopes exceeding 2:1 shall require special design and stabilization considerations that shall be adequately shown on the plans.
- 3. Reverse benches shall be provided whenever the vertical interval (height) of any 2:1 slope exceeds 20 feet; for 3:1 slope it shall be increased to 30 feet and fo 4:1 to 40 feet. Benches shall be located to divide the slope face as equally as possible and shall convey the water to a stable outlet. Soils, seeps, rock outcrops,

etc., shall also be taken into consideration when designing benches.

- a. Benches shall be a minimum of six feet wide to provide for ease of maintenance.
- b. Benches shall be designed with a reverse slope of 6:1 or flatter to the toe of the upper slope and with a minimum of one foot in depth. Bench gradient to the outlet shall be between 2 and 3 percent, unless accompanied by appropriate design and computations.
- c. The flow length within a bench shall not exceed 800' unless accompanied by appropriate design and computations. For flow channel stabilization see temporary
- 4. Surface water shall be diverted from the face of all cut and/or fill slopes by the use of earth dikes, ditches and swales or conveyed downslope by the use of a designed
- a. The face of the slope is or it shall be stabilized and the face of all graded slopes shall be protected from surface runoff until they are stabilized.
- b. The face of the slope shall not be subject to any concentrated flows or surface water such as from natural drainageways, graded swales, downspouts, etc.
- c. The face of the slope will be protected by special erosion control materials, to include, but not limited to: approved vegetative stabilization practices (see section G), riprap or other approved stabilization methods.
- 5. Cut slopes occurring in ripable rock shall be serrated as shown on the following diagram. These serrations shall be made with conventional equipment as the excavation is made. Each step or serration shall be constructed on the contour and will have steps cut at nominal two-foot intervals with nominal three-foot horizontal shelves. These steps will vary depending on the slope ratio or the cut slope. The nominal slope line is 1:1. These steps will weather and act to hold moisture, lime fertilizer and seed thus producing a much quicker and longer lived vegetative cover and better slope stabilization. Overland flow shall be diverted from the top of all serrated slopes and carried to a suitable outlet.
- 6. Subsurface drainage shall be provided where necessary to intercept seepage that would otherwise adversely affect slope stability or create excessively wet site conditions.
- 7. Slopes shall not be created so close to property lines as to endanger adjoining properties without adequately protecting such properties against sedimentation, slippage, settlement, sudsidence or other related damages.
- 8. Fill material shall be free of brush, rubbish, rocks, logs, stumps, building debris, and other objectionable material. It should be free of stones over two (2) inches in diameter where compacted by hand or mechanical tampers or over eight (8) inches in diameter where compacted by rollers or other equipment. Frozen material shall
- 9. Stockpiles, borrow areas and spoil shall be shown on the plans and shall be subject to the provisions of this standard and specifications.
- 10. All disturbed areas shall be stabilized structurally or vegetatively in compliance 20.0 Standards and Specifications for Vegetative Stabilization

OWNER'S/DEVELOPER'S CERTIFICATION

"I/we hereby certify that I/we have reviewed this erosion and sediment control plan and that all clearing, grading, construction and/or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a certificate of attendance at a Department of Environment approved training program for the control of sediment and erosion before beginning the project.

Phone# (301) 888-1387 Name (printed) DENT DOWNING

CONSULTANT'S CERTIFICATION

UPPER MARLBORO, MD 20772

"I certify that this plan of erosion and sediment control represents a practicable and workable plan based on my personal knowledge of the site, and that this plan was prepared in accordance with the requirements of the Prince Georges County Soil Conservation District and "Standards and Specifications for Soil Erosion and Sediment Control". I have reviewed this erosion and sediment control plan with the owner/developer.

hander S. Dhelwela MD. License No. # 8231 3/05 Name (printed) CHANDER S. DHALWALA P.E. (Include seal, company name, address and phone number if not included

24.0 MATERIALS SPECIFICATIONS

Table 27 - Geotextile Fabrics							
CLASS OPENING SIZE MM. MAX.		GRAB TENSILE STRENGTH LB. MIN.	BURST STRENGTH PSI. MIN.				
Α	0.30	250	500				
В	0.60	200	320				
С	0.30	200	320				
D	0.60	90	145				
E	0.30	90	145				
F (Silt Fence)	0.40-0.80**	90	190				

** US Std. Sieve CW-02215

elsewhere on plan).

- The properties shall be determined in accordance with the following procedures:
 - Apparent opening size MSMT 323 - Grab tensile strength ASTM D 1682:
 - 4 x 8" specimen, 1 x 2" clamps, 12"/min.
 - strain rate in both principal directions of goetextile fabric.
 - Burst strength ASTM D 3786

Permanent and temporary seeding, sodding and mulching,

I. SITE PREPARATION

Permanent or temporary vegetation shall be established within (7) seven calendar days on the surface of all sediment control practices such as diversions, grade stabilization structures, berms, waterways, sediment control basins, and all slopes greater than 3 horizontal to 1 vertical (3:1) and within (14) fourteen calendar days for all other disturbed or graded greas on the project site. Mulching may only be used on disturbed greas as temporary cover where vegetation is not feasible or where seeding cannot be completed because of weather.

II. SEEDBED PREPARATION AND SEEDING APPLICATION

Loosen the top layer of the soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment or such as disc harrows, chisel plows or rippers mounted on construction equipment. Incorporate the lime and fertilizer into the top 3 to 5 inches of the soil by discing or by other suitable means. Rough areas should not be rolled or dragged smooth, but left in a roughened condition. Steep slopes greater than 3:1 grade should be tracked by a dozer, leaving the soil in an irregular condition with the ridges running parallel to the contour of the slope. The top 1 to 3 inches of soil should be loose and friable. Permanent cover may require an application of topsoil. If so, it must meet the requirements set forth in section 21.0 Standards and Specifications for topsoil from the 1994 Standards and Specifications.

Soil tests shall be made on sites over five acres to determine the exact requirements for both lime and fertilizer. For sites under five acres, In lieu of soil test, apply the following:

Fertilizer Nitrogen 2 lbs/ sq. ft. (90 lbs/ac) (175 lbs/ac) 4 lbs/ sq. ft. (175 tons/ac) 4 lbs/1,000 sq. ft.

For low maintenance areas apply 150 lbs/ac ureaform fertilizer (38-0-0) at 3.5 lbs/1,000 sf in addition to the above fertilizer at the time of seeding

Ground limestone: 2tons/ac

IV. SEDIMENT CONTROL PRACTICE SEEDING Select a seeding mixture from tables 25 or 26 in section G of the 1994 Standards and Specifications. Document seeding on the erosion and sediment control plan using appropriate chart below. Note: if sediment control practices are in for longer than 12 months, permanent seeding is required.

V. TEMPORARY/PERMANENT SEEDING MIXTURES AND RATES

Select a seeding mixture from tables 25 and 26 in section G of the 1994 Standards and Specifications. Document seeding on the erosion and sediment control plan using appropriate chart below.

Permanent Seeding Summary

Seed Mixture (Hardiness Zone 7a) From Table 25					Fertilizer Rate	Lime Rate	
No. Species		Application Rate (lb/ac)	Seeding Dates	Seeding Depths	10-10-10		
Mix #7	Tall Feecue 83% Weeping Lovegrass 2% Serecia Lespedeza 15%	110 3 20	3/1 - 11/15	1/4"-1/2"			
Mix	Tall Fescue 95-100% Kentucky 0-5% Bluegrass	5-8 lbs. 1000ef	3/1 - 5/15 8/15 - 11/15	1/4"-1/2"	600 lb/ac (15 lb/1,000sf)	2 tons/ac (100lb/1,000sf)	
					* For low mainten	once areas only	

mainitenance areas only ** For lawn areas

Temporary Seeding Summary

Seed Mixture (Hardiness Zone <u>7a</u>) (From Table 26)					Fertilizer Rate 10-20-20			Lime	
No.	Species	Application rate(lb/ac)		Seeding Depths	N	P205	K20	Rate	
1	Annual ryegrass	50	2/1 - 4/30 8/15 - 11/1	1/4"-1/2"					
2	Weeping lovegrass	4	5/1 - 8/14	1/4"-1/2"			175 lb/ac (4 lb/ 1,000sf)		
					Equals 90 per acre	00 lbs. of	10-20-20		

VI. TURFGRASS ESTABLISHMENT

This includes lawns, parks, playgrounds, and commercial sites whichwill recieve a medium to a high level of maintenance. Areas to recieve seed shall be tilled by discing or other approved methods to a depth of 3 to 5 inches, leveled and raked to prepare a proper seedbed. Stones and debris over 1 1/2 inches in diameter shall be removed. The resulting seedbed shall be in such a condition that future moving of grasses will pose no difficulty. Use certified material and choose a turfgrass mixture from page G-20 of the 1994 Standards and Specifications or select from the list in the most current University of Maryland publication, Agronomy Mimeo #77, "Turfgrass Cultivar Recommendations for Maryland". See mimeo at the end of this section.

All seedings require mulching. Also mulch during non seeding dates until seeding can be done. Mulch shall be unchopped, unrotted, small grain straw applied at a rate of 2 tons/acre or 90 lbs./1,000 sf (2 bales). If mulch anchoring tool is used, apply 2.5 tons/acre. Mulch materials shall be relatively free of all kinds of weeds and shall be competely free of noxiuos weeds. Spread mulch uniformly, either mechanically or by hand, to a depth of 1 to 2 inches. Mulch anchoring shall be accomplished immediately after mulch placement to minimize loss by wind or water. This may be done by mulch nettings, mulch anchoring tool, wood cellulose fober or liquid mulch binders.

per 100 gallons of water. Liquid binder should be applied heavier at the edge, where wind catches mulch in valleys, and on crest of banks. The remainder of the area should appear uniform after binder application. Apply rates recommended by the manufacturer to anchor and mulch. Staple light weight, plastic netting over mulch according to manufacturer's recommendations.

Class of turfgrass sod shall be Maryland or Virginia State certified or approved sod. Sod shall be harvested, delivered and installed within a period of 36 hours. Sod is to be laid with long edges parallel to the contour using staggered and with all ends tightly abutted and not overlapping. Sod shall be rolled and thoroughly watered after installation. Daily watering to maintain 4 inches of moisture for the first week is required in the absence of rainfall. Sod is not to be applied on frozen ground.

Apply wood cellulose fiber at a dry weight of 1500 lbs/acre. If mixed with water, use 50 lbs. of wood cellulose fiber

- a. Irrigate Apply minimum 1" of water every 3 to 4 days depending on soil texture, when soil moisture becomes deficient to prevent loss of stand of protective vegetation b. Repairs - If stand provides between 40% and 94% ground coverage, overseed and fertilize using half of the rates

originally applied. If stand provides less than 40% coverage, reestablish stand following original rates and

Note: Use of this information does not preclude meeting of all the requirements of the 1994 Standards and Specifications for Soil Erosion and Sediment Control Vegetative Practices.

24.0 MATERIALS SPECIFICATIONS

				Table 28 - Stone Size						
SIZE RANGE	D ₅₀	D ₁₀₀	ASSHTO	WEIGHT	Prince George's County Planning Department Environmental Planning Section APPROVAL TREE CONSERVATION PLAN					
/8"-1 1/2"	1/2"	1 1/2"	M-43	N/A	TCPIH 09 1 05					
2"-3"	2 1/2"	3"	M-43	N/A	Approved by Date					
4"-7"	5 1/2"	7"	N/A	N/A	CITMU 6/32/05					
N/A	9.5"	15"	N/A	150lb.max.	01 / /					
N/A	16"	24"	N/A	700lb.max.	03					
N/A	23"	34"	N/A	2,000lb.max.						
	2"-3" 4"-7" N/A N/A N/A	8"-1 1/2" 1/2" 2"-3" 2 1/2" 4"-7" 5 1/2" N/A 9.5" N/A 16" N/A 23"	8"-1 1/2" 1/2" 1 1/2" 2"-3" 2 1/2" 3" 4"-7" 5 1/2" 7" N/A 9.5" 15" N/A 16" 24" N/A 23" 34"	8"-1 1/2" 1/2" 1 1/2" M-43 2"-3" 2 1/2" 3" M-43 4"-7" 5 1/2" 7" N/A N/A 9.5" 15" N/A N/A 16" 24" N/A	8"-1 1/2" 1/2" 1 1/2" M-43 N/A 2"-3" 2 1/2" 3" M-43 N/A 4"-7" 5 1/2" 7" N/A N/A N/A 9.5" 15" N/A 150lb.max. N/A 16" 24" N/A 700lb.max. N/A 23" 34" N/A 2,000lb.max.					

outlets and check dams. ** This classification is to be used whenever small rip-rap is required. The State Highway Administration designation for this stone is

Stones for Gabions (905.01.04)

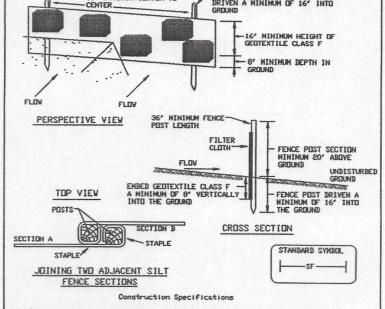
DETAIL 24 - STABILIZED, CONSTRUCTION ENTRANCE DETAIL 28 - BENCHED SLOPES EXISTING PAVEMENT EARTH FILL
PIPE AS NECESSARY MM GEUTEXTILE CLASS 'C'-MINIMUM 6' DF 2'-3' AGGREGATE OVER LENGTH AND WIDTH DF STRUCTURE -EXISTING GROUND PROFILE Construction Specifications . All fills shall be compacted as required to reduce erosion, STANDARD SYMBOL

stippage, settlement, subsidence or other related problems.
Fill intended to support buildings, structures and conduits, etc., shall be compacted in accordance with local requirements Construction Specification 2. All fill shall be placed and compacted in layers not to exceed 8' in thickness. Length - Minimum of 50' (#30' for single residence lot) 2 Width - 10' minimum, should be flared at the existing road to provide a turning Except for approved landfills or nonstructural fills, fill
naterial shall be free of brush, rubbish, rocks, logs, stumps,
building debris and other objectionable materials that would

. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. MATThe plan approval authority may not require single family residences to use gentextile. 4. Stone - crushed aggregate (2' to 3') or reclained or recycled concrete equivalent shall be placed at least 6' deep over the length and width of the

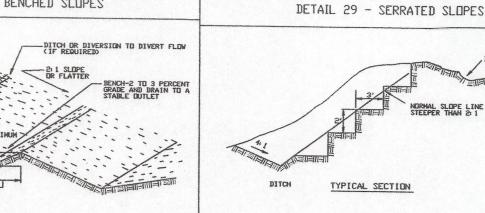
5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable bern with 51 slopes and a minimum of 6' of stone 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. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Wehicles leaving the site must travel over the entire length of the stabilized construction entrancements.

U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE SUIL CONSERVATION SERVICE DETAIL 22 - SILT FENCE



. Fence posts shall be a minimum of 36" long driven 16" minimum into the (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pond per line 2. Geotextile shall be fastened securely to each fence post with wire ties Tensile Modulus 20 lbs/in (min.) Test His 0.3 gal ft²/ minute (max.) Test His Filtering Efficiency 75% (nin.)

3. Where ends of geotextile fabric come together, they shall be overlapped folded and stapled to prevent sediment by bulges occur or when sediment accumulation reached 50% of the fabric height.



interfere with or prevent construction of satisfactory fill 4. Frozen material or soft, mucky or highly compressible

P. 47

drainfield

6.25

233.9181287

2000 gal septic tank

60.9

60.65

0.319148936

naterials shall not be incorporated into fill slopes or structural fills. Fill shall not be placed on a frozen foundation. All benches shall be kept free of sediment during all phases of development. 6. Seeps or springs encountered during construction shall be handled in accordance with the Standard and Specification for Subsurface Drain or other approved methods. 7. All graded areas shall be permanently stabilized

mmediately following finished grading

DOWNING

perc depth

daily design flow

loading rate

absorptive laver

trench spacing

** trench length**

INVERT AT HOUSE

LENGTH TO TANK

INVERT AT TANK

invert in

top of tank

inlet invert

outlet invert

bottom of tank(inside)

ENGTH OF PIPE TO FIELD

ELEV OF INV dist. Box

percent SLOPE

ELEV DIFFERENCE

ELEV OF INV drain field

ould be attached the tops of the

·Use an 8" wire "U"

to secure the bottom

1. Limits of disturbance will be set as part of the

2. The boundaries of the limits if disturbance should

be staked and flagged prior to erecting the pro-

3. Anchor posts should be placed to avoid severing

anchor posts, cross bracing, and ground

4. Fencing material should be fastened securely to the

review process for an approved TCP.

or damaging large tree roots.

tective device.

TREE PROTECTIVE DEVICE

BLAZE ORANGE PLASTIC MESH

until P.G. County Planning Dept. approves removal.

TOP GROUND

Use 2"X4" lumber fo

cross bracing

bottom of tank(outside

TYPICAL SECTION

Construction Specifications 1. All fills shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related problems.
Fill intended to support buildings, structures and conduits, etc., shall be compacted in accordance with local requirements 2 All fill shall be placed and compacted in layers not to 3. Except for approved landfills or nonstructural fills. fil naterial shall be free of brush, rubbish, rocks, logs, stumps, building debris and other objectionable materials that would interfere with or prevent construction of satisfactory fills. 4. Frozen material or soft, mucky or highly compressible naterials shall not be incorporated into fill slopes or structural fills. Fill shall not be placed on a frozen

5. All benches shall be kept free of sediment during all phases of development. Seeps or springs encountered during construction shall be handled in accordance with the Standard and Specification for Subsurface Drain or other approved methods. 7. All graded areas shall be permanently stabilized immediately following finished grading.

SDIL CONSERVATION SERVICE

total depth

Rate(min/in.)

min. rate 3.5 2.5 2.3 1.9 1.7 1.6 15 1.4 10 1.33 1.26 12 1.2 1.15 14 1.1 1.04 0.95

0.93

0.9

0.87

0.84

0.8

0.78

0.76

0.72

0.69

0.67

0.65

0.63

Figure D-4

18

19

FOREST

DO NOT DISTURB

PROHIBITED

TREE PROTECTION SIGN

. Bottom of signs to be higher than top of tree protective device (TPD). When placed above TPD, sign height to be a minimum of 4' (feet).

Conditions on site affecting visability may warrant placing signs

. Signs to be placed approximately 150' (feet) apart.

Attachement of signs to trees is prohibited.
 Signs to be affixed to wood posts using screws or nails

closer or farther apart.

Instruction Sign

in order to insure permanence.

Source: Adapted from Forest Conservation Manual, 1991

SPECIMEN TREE

DOWOT REMOV

mas

TREE CONSERVATION PLAN NOTES

TPD-G

OPTION 3

Cutting or clearing of woodland not in conformance with this Plan or without the expressed written consent of the Planning Director or designee shall be subject to a \$1.50 per square foot mitigation fee. The Department of Environmental Resources (DER) must be contacted at (301) 731 - 8790 prior to the start of any work

on the site to address implementation of Tree Conservation measures shown on this plan. Property owners shall be notified by the Developer or Contractor of any Woodland Conservation Areas (Tree Save Areas, Reforestation Areas, Afforestation Areas, or Selective Clearing Areas) located on their lot or parcel of land and the associated fines for unauthorized disturbances to these areas. Upon the sale of the property the owner/developer or owners representative shall notify the purchaser of the property of any Woodland Conservation Areas. All appropriate bonds will be posted with the Bullding Official prior to the issuance of any permits. These bonds will

be retained as surety by the Building Official until all required activities have been satisfied. The location of all Tree Protection Devices (TPD's) shown on this Plan shall be flagged or staked in the field prior to the pre-construction meeting with the Sediment and Erosion Control Inspector from DER. Upon approval of the flagged or staked TPD locations by the Inspector, installation of the TPDs may begin. TPD installation shall be completed prior to installation of initial Sediment Controls. No cutting or clearing of trees may begin before final approval of TPD installation.

Woodland Conservation - Tree Save Areas and/or Reforestation Areas shall be posted as shown at the same time as Tree Protective Device installation and/or start of reforestation activities. These signs shall remain in place

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SHEET 2 of 2