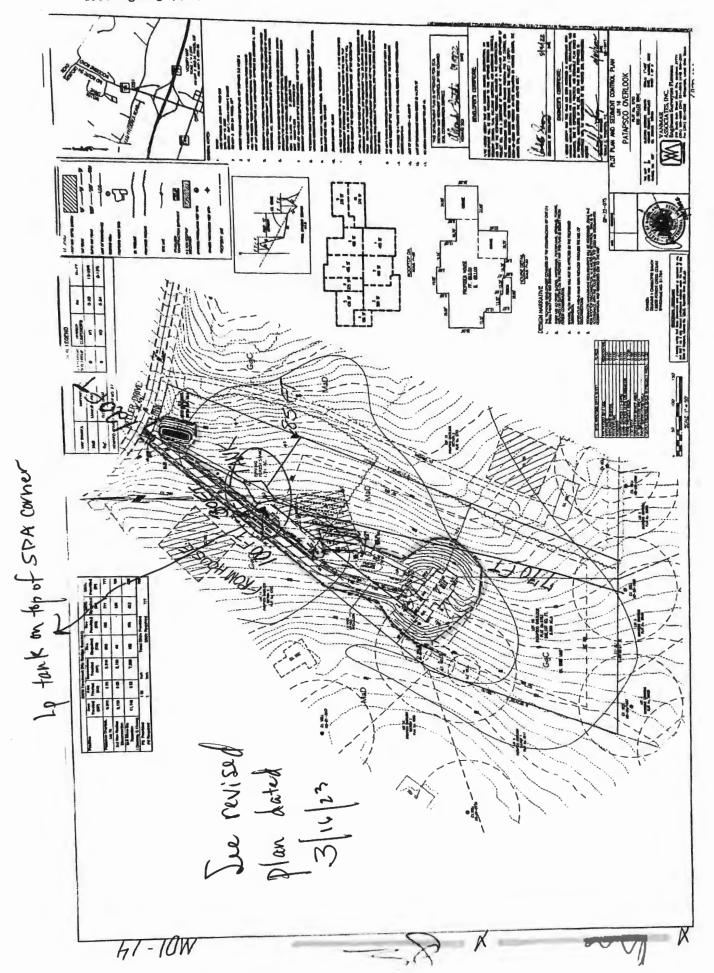
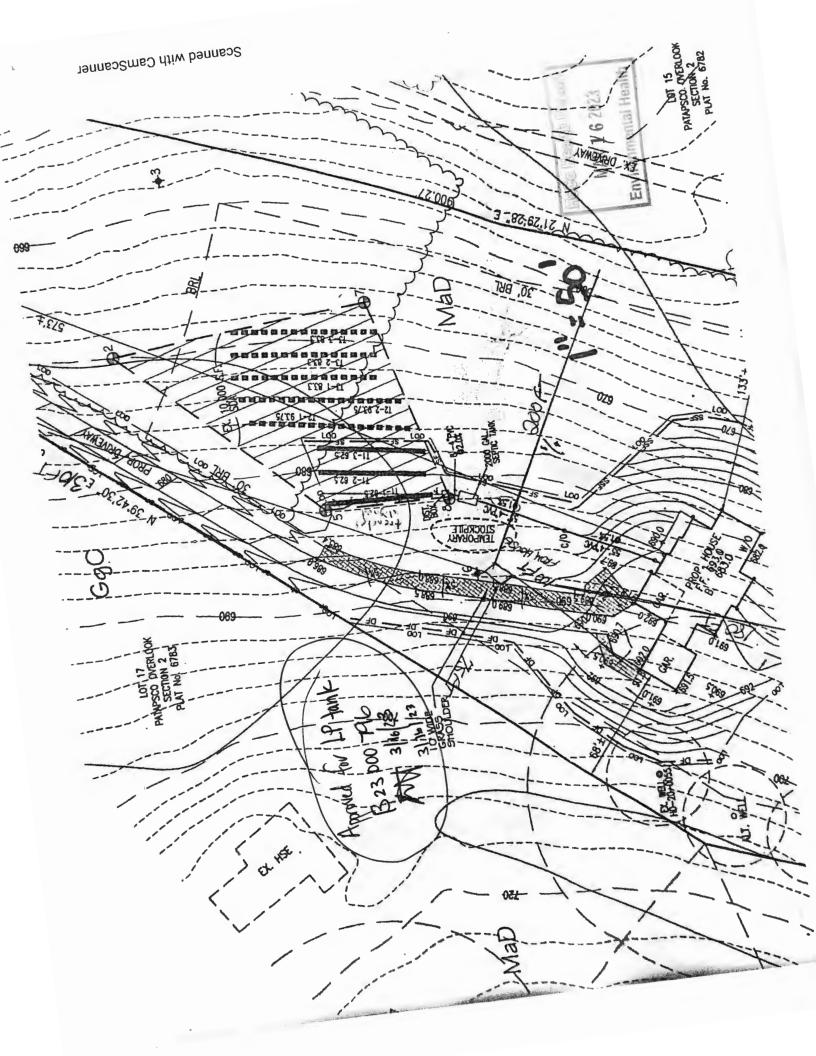
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Street #	Street Name			reet Type	-	to app	licant's bui	lder
625 Unit Type	WELLER Unit #	X Coordinate	Y Coord	DR ✓		rea	vesting a	revision
-Select V		-77.07133	39.3534	3				
City MOUNT AIRY		State MD	Zip Code 21771	Primary Yes				
Parcel (This se	ection is require Reset	,	Address & Owne	-		3/16/2	3- Approv	ed)
		0,001	Address & Owne	'	\		- Mark	
GIS ID	Parcel	Parcel Area	Land Value	Improved Valu	e Exemption	ı Value	Plan Area	
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830466 Legal Description	227 on	Parcel Area	Land Value 274100	Improved Valu				
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SAVOY DEJAUNE Address Line 1

12803 FOREST CREEK COURT

		!			
Address Line 3					
M-11 OIL		M - 11 71 - O - 1			
Mail City	Mail State	Mail Zip Code			
SYKESVILLE	MD V	21784			
Phone	Primary				
443-858-2689	Yes	~			
E-mail		i			
Cell Number	Fax Number	1			
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
rofessionals (This section	on is not required.)				
License #	Business Name				
20100079809		ERATIVE SOLUTIONS	DBA AFRO ENFR	2GY	
License Type	First Name	Middle Name			
Propane Gs 🗸		THOMAS	JARCY		
Primary	Address Line 1		, 0, 1.101		
-	230 LINCOLN WAY EA	AST			
	City		State	ZIP Code	
	City NEW OXFORD		PA	17350-0000	
	Phone 1	Phone 2	Fax	17 550-0000	
	2406744592	FIIONE Z	I dA		
	Z40674459Z E-mail		1		
	RJARCY@AEROENE	RGYCOM			
	NJANCT WALKOLNE	1.001			
pplicant (This section is Search As Owner		As Contact			
Search As Owner			ast Name		
Search As Owner Type · Applicant	As Lic. Prof First Name steve	MI La	ast Name lannenfeldt		
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Search As Owner Type Applicant As Relationship Applicant Primary Yes Applicant Applic	As Lic. Prof First Name steve Full Name steve dannenfeldt Organization Name Aero Energy Street Address 230 lincoln way East Address Line 2 City New Oxford Phone 717-577-5923 E-mail sdannenfeldt@aeroen Housing Units 0	Cell ergy.com Number of Bui	State PA Fax	17350	
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Search As Owner Type Applicant Relationship Applicant Primary Yes Applicant Addition Cost 6500 Construction Type 434 - Additions, Alteration NK INFORMATION SIDENTIAL TANK INFORDital Project-No Fee Construction Fee Constructi	As Lic. Prof First Name steve Full Name steve dannenfeldt Organization Name Aero Energy Street Address 230 lincoln way East Address Line 2 City New Oxford Phone 717-577-5923 E-mail sdannenfeldt@aeroen Housing Units 0 ns and Conversions - Re	Cell ergy.com Number of Bui 0	State PA Fax Flat Fax Roads	17350	Roadside Tree Permit
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221113835

DATE ACCEPTED:



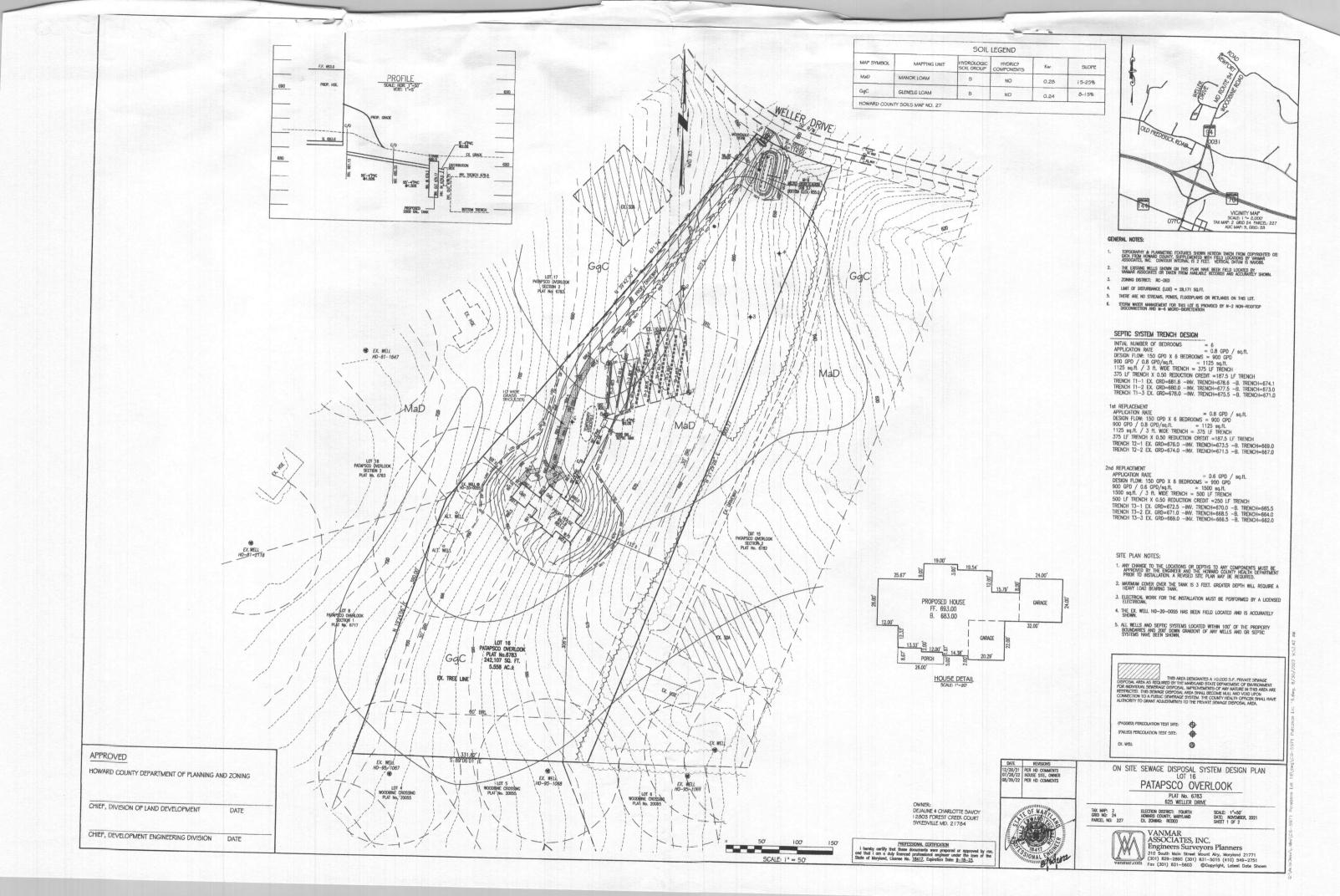
RESIDENTIAL BUILDING PERMIT APPLICATION

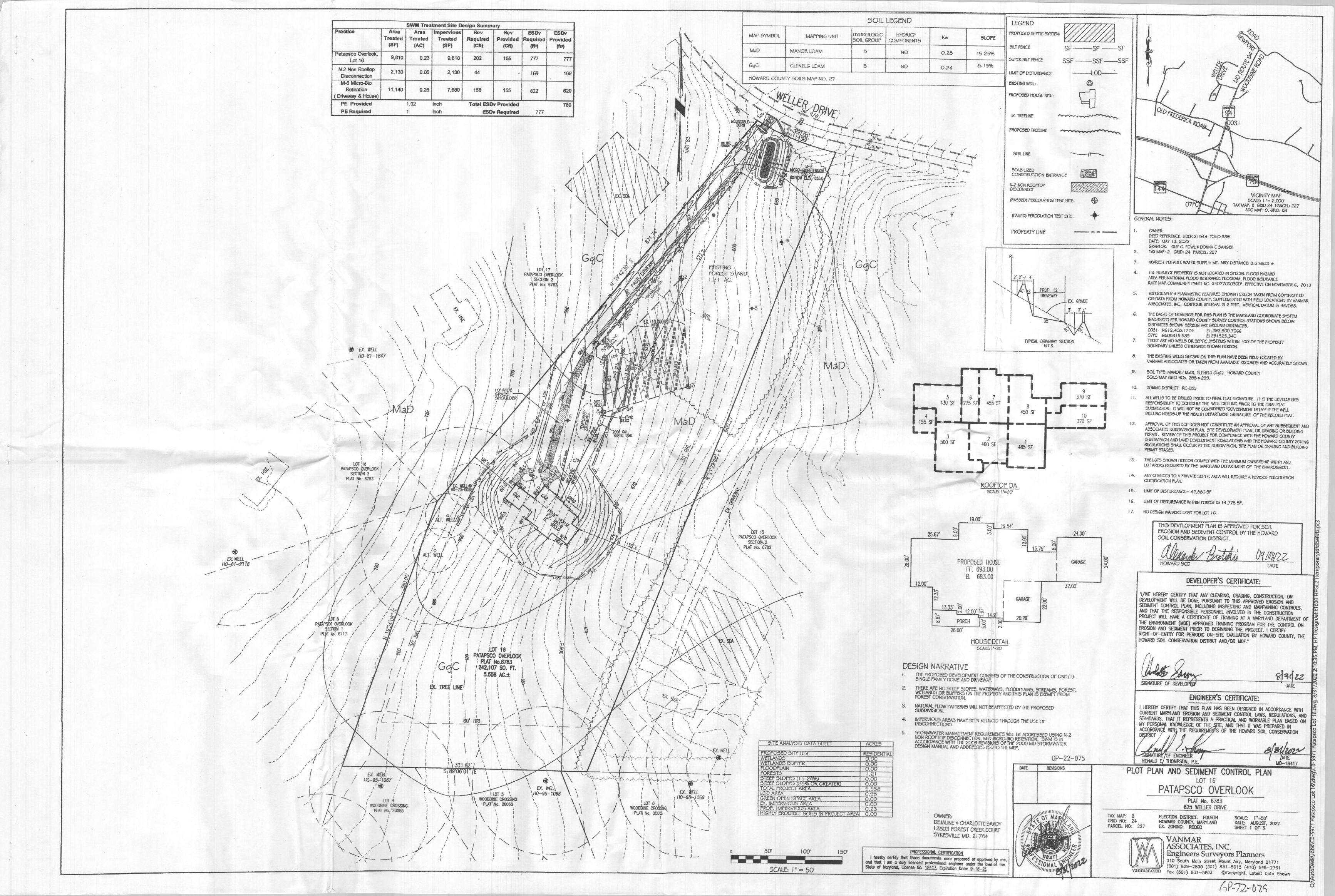
HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS

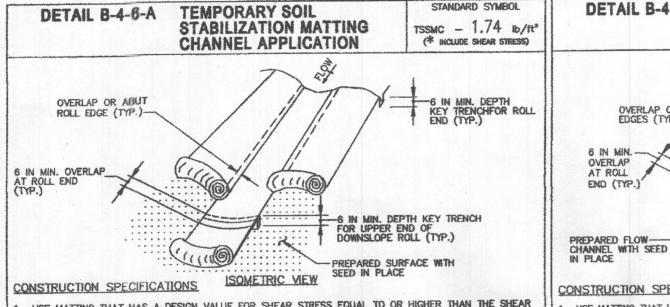
3430 COURT HOUSE DRIVE, ELLICOTT CITY, MD 21043 - PHONE: (410) 313-2455 OPTION #4

www.howardcountymd.gov

BUILDING SITE ADDRESS	REQUIRED						
Street Address: 625 Weller Driv	е					Unit:	
City: Mount Airy			State: MD			Zip Co	de: 21771
Subdivision/Village/Complex Name:	Patapsco Overlook Se	ection 2			SDP/WP/BA #	:	
Lot: 16 Tax	Map: 2	arcel: 227		Grading	Permit #: TBI)	
DESCRIPTION OF WORK	REQUIRED	10					
Existing Use: vacant	Proposed U	se: Single F	amily Dwel	ling		Estima	ted Cost: \$414,900.00
Trade Work to Be Completed (Separate	rate Permits Required): • N	Mechanical (HV	/ACR) ■ E	lectrical	■ Plumbing		one
New 2 sty SFD; House type"	Kingsport"; Elev. 34. 2	car FL gar	age, 2 car	side load	d garage, Fi	n. Bsm	t w/
Rec, Hobby, Bath, mech; 1st-						B(; 2nd	- 4 Beds, 3 full baths,
playroom. Total Fin- 6765; T		8294; Total	Beds- 5; T	otal Bat	hs- 5		
PROPERTY OWNER INFOR	MATION REQUIRED						
Owner(s) Name(s) (As it appears of	tax records): DEJAUNE 8	& CHARLO	TE SAVO	1		Primar	y Residence: ☐ Yes ■ No
Owner's Street Address: 12803 FC	DREST CREEK COURT		1.00		0770		
City: SYKESVILLE			State: MD			Zip Co	de: 21784
Phone: (443) 858-2723		Email: char	lotte@thes	avoytea	m.com		
APPLICANT NAME REQU	VIRED - INDIVIDUAL WH	HO SIGNS TH	HIS APPLICA	4TION			
Business Name: PERMIT SERVI	CES, INC.		Contact Nam	e: SAMA	NTHA MULI	LINIX	
Street Address: 2011 FRALEY L	ANE						
City: PASADENA			State: MD			Zip Co	de: 21122
Phone: (443) 465-7832		Email: SMN	IULLINIX12	231PSI@	GMAIL.COM	Λ	
CONTRACTOR INFORMATI							
Business Name: CARUSO HOM	ES ON YOUR LOT III, L	LC.					the second secon
Licensee's Name: CARUSO HON	MES		License #:	B233			
Street Address: 2120 BALDWIN	AVE, SUITE 200						
City: CROFTON			State: MD			Zip Co	de: 21114
Phone: (667) 307-4224			npkins@ca				
ARCHITECT/ENGINEER IN	FORMATION INDIVID	UAL WHO S.	IGNED PLAT	VS, IF AF	PPLICABLE		
Business Name:			Name:				
Street Address:							
City:			State:			Zip Co	de:
Phone:		Email:					
BUILDING CHARACTERIST			T- 1			_	
Primary Structure: ■ SF Dwelling I							Condo: ☐ Yes ■ No
Utilities: ■ Electric □ Gas	Water Supply: Public	■ Private ((Well)		Disposal: Pu		Private (Septic)
Heating System: ☐ Electric ☐ Nat					Tree Project: I		
	NFPA 13R NFPA 13D	□ None			: ■ Yes □	No 🗆	Voice Evac
ADDITIONAL RESIDENTIA							
Model Name & Options: KINGSP		T				SL	
	ficiency units (MF*):	# of 1 BR (M		# of 2 BR	(MF*):		# of 3 BR (MF*):
# Rooms:	# Full Baths: 5		# Half Baths			# Fire	eplaces: 1
Garage/Carport Info: ■ Attached (☐ Carport			
Basement/Foundation Info: Slab			ed Basement		hed Basement:		
1st Fl Width: 80 1st Fl Dep			2 nd Fl Depth:		Bsmt Width		Bsmt Depth: 68
Energy Method: Prescriptive		ive ERI	Gross Area: {	3,294	sq ft	Occupi	able Area: 6,765 sq ft
AGREEMENT/ DISCALIMER	The second of the second of the second	IC ALTERIORIZED TO	MANUE THE ADDI	CATION (2)	FILAT THE INCODE	TION IS SO	ADDECT AND THAT WE ARREST
THE UNDERSIGNED HEREBY CERTIFIES AND AG WITH ALL REGULATIONS OF HOWARD COUN							
THIS APPLICATION; (5) THAT HE/SHE GRA	NTS COUNTY OFFICIALS THE RIGHT TO	DENTER ONTO THE	S PROPERTY FOR	THE PURPOSE	OF INSPECTING TH	E WORK PI	ERMITTED AND POSTING NOTICES.
8	26)			1/2/2	12.22		
ADDITION TO CONCINAL CICHATURE				10/14	12022		
APPLICANT'S ORIGINAL SIGNATURE	V		DAT	ESIGNED			
FOR OFFICE USE ONLY			CHECKS PAYA	BLE TO: DIR	ECTOR OF FINAN	CE OF HO	WARD COUNTY
AGENCIES REQUIRED/APPROVALS:			-	ACOL	oved.		
756					0.0 11	19122	
DPR EDPZ		ED		Health	40	- 707	☐ SHA ☐ CID
SUBMITTAL FEES: 9157	PAYMENT.	1105	70		0	ACCEPT	TED BY: ALL







USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.

USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM)
NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND
DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOLDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GETMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.

SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "I" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8
RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1½ INCHES WIDE AND BE A MINIMUM OF B INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM B INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH—SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND

UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTERLINE, WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MAT SMOOTHLY AND FIRMLY ON THE SEEDED SURFACE, AVOID STRETCHING THE MATTING.

KEY-IN UPSTREAM END OF EACH MAT ROLL BY DIGGING A 6 INCH (MINIMUM) TRENCH AT THE UPSTREAM END OF THE MATTING, PLACING THE ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END.

OVERLAP OR ABUT THE ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.

8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.

3. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION 8-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE MARYLAND DEPARTMENT OF ENVIRONMENT

DIVERSION

10 FT MAX

CHAIN LINK FENCE COVERED WITH IMPERMEABLE SHEETING

SECTION

USE 42 INCH HIGH, 9 GAUGE OR THICKER CHAIN LINK FENCING (2% INCH MAXIMUM OPENING).

FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES.

USE 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 1D FEET APART. THE POSTS DO NOT NEED TO BE SET IN CONCRETE.

SECURE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT TOP, MID SECTION, AND BELOW GROUND SURFACE.

EXTEND SHEETING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND EMBED END A MINIMUM OF 8 INCHES INTO GROUND. SOIL STABILIZATION MATTING MAY BE USED IN LIEU OF IMPERMEABLE SHEETING ALONG FLOW SURFACE.

WHEN TWO SECTIONS OF SHEETING ADJOIN EACH OTHER, OVERLAP BY 6 INCHES AND FOLD WITH SEAM FACING DOWNGRADE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL 2011

KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF EROSION.
REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE. REPLACE
IMPERMEABLE SHEETING IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

FENCE

EVTEND INDERNEARS E SHEETING --

OR PROVIDE SOIL STABILIZATION MATTING

CONSTRUCTION SPECIFICATIONS

- OF-

34 IN MINE

36 IN MIN.

TUV RESISTANT IMPERMEABLE SHEETING ON BOTH SIDES OF FENCE

MAXIMUM DRAINAGE AREA = 2 ACRES

DETAIL C-9

STANDARD SYMBOL DETAIL B-4-6-C PERMANENT SOIL STABILIZATION MATTING PSSMC - 1.74 16/11 CHANNEL APPLICATION PREPARED FLOW-CHANNEL WITH SEED IN PLACE ISOMETRIC VIEW

CONSTRUCTION SPECIFICATIONS: USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.

USE PERMANENT SCIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON-DEGRADABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION THROUGHOUT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VECETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.

SECURE MATTING USING STEEL STAPLES OR WOOD STAKES. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 & INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPE AT THE BOTTOM.

PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS, UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTER LINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MATTING SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING. OVERLAP OR ABUT EDGES OF MATTING ROLLS PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.

KEY IN THE TOP OF SLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.

STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.

B. IF SPECIFIED BY THE DESIGNER OR MANUFACTURER AND DEPENDING ON THE TYPE OF MAT BEING INSTALLED, ONCE THE MATTING IS KEYED AND STAPLED IN PLACE, FILL THE MAT VOIDS WITH TOP SOIL OR GRANULAR MATERIAL AND LIGHTLY COMPACT OR ROLL TO MAXIMIZE SOIL/MAT CONTACT WITHOUT CRUSHING MAT. 10. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION 8-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION U.S. DEPARTMENT OF AGRICULTURE

(* INCLUDE SHEAR STRESS)

Conditions Where Practice Applies: Where vegetative stabilization is to be established A. Soil Preparation

To provide a suitable soil medium for vegetative growth.

1. Temporary Stabilization
a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plaws or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.

b. Apply fertilizer and lime as prescribed on the plans.

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILDIG, AND SOIL AMENDMENTS

The process of preparing the soils to sustain adequate vegetative stabilization.

. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.
2. Permanent Stabilization a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are: i. Soil pH between 6.0 and 7.0. ii. Soluble salts less than 500 parts per million (ppm).

iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of maisture. An exception: if lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay)

iv. Soil contains 1.5 percent minimum organic matter by weight.
v. Soil contains sufficient pore space to permit adequate root penetration.
b. Application of amendments or topsoil is required if on—site soils do not meet the above conditions. c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches. B.13 d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test. e. Mix soil amendments into the top 3 to 5 inches of soil by disting or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seedhed loosening may be unnecessary on newly disturbed areas.

Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is 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 gradition.

2. Topsoil salvaged from an existing site may be used provided 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-NRCS. Topsoiling is limited to areas having 2:1 or flatter slopes where:

The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.

The soil material is so shallow that the rooting zone is not deep enough to support plants or turnish 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.

Areas having slopes steeper than 2:1 require special consideration and design.

Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:
Topsoil must be a loam, sandy loam, clay loam, slit loam, sandy clay loam, or loamy said. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments. gravel, sticks, roots, trush, or other materials larger than 1½ inches in diameter.

b. Topsoll must be free of noxious plants or plant parts such as Bermuda grass, quack grass,

donnson grass, nut sedge, poison by, thistle, or others as specified.

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

6. Topsoil Application Erosion and sediment control practices must be maintained when applying topsoi b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to 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 must be corrected in order to prevent the formation of depressions or water pockets.
c. Topsoil must not be placed if the topsoil or subsoil is in a frazen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading B.14 and seedbed preparation.

C. Soil Amendments (Fertilizer and Lime Specifications)

1. Soil tests must be performed to determine the exact ratios and application rates for both time and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.

2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the produces

3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 98 to 100 percent will pass through a #20 mesh sieve. 4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of sail by disking or other suitable means.

5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil.

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

The application of seed and mulch to establish vegetative cover.

To protect disturbed soils from erosion during and at the end of construction. Conditions Where Practice Applies: To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

o. All seed must meet the requirements of the Moryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table 3.4 regarding the quality of seed. Seed tags must be evailable upon request to the inspector to verify type of seed and seeding rate. b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.

c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less effective. d. Sod or seed must not 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. a. Dry Seeding: This includes use of conventional drop or broadcast spreaders. incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3, or site-specific seeding summaries.

ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with a weighted roller to provide good seed to soil contact. B.16 b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with sail. . Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.
ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).
 i. If fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P2 05 (phosphorous), 200 pounds per acre; K2 0 (potassium), 200 pounds per acre. ii. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.

iii. Mix seed and fertilizer on site and seed immediately and without interruption. . When hydroseeding do not incorporate seed into the soil. B. Mulchina

1. Mulch Materials (in order of preference) a. Straw consisting of thoroughly threshed wheat, rye, out, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dusty. Note: Use only sterile straw mulch in areas where one species of grass is desired. b. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into a uniform fibrous physical state.

i. WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry. WCFM, including dye, must contain no germination or growth inhibiting factors. i. WCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotter-like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings. WCFM material must not contain elements or compounds at concentration levels that will

. WCFM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, as content of 1.6 percent maximum and water holding capacity of 90 percent minimum. B.17

2. Application
a. Apply mulch to all seeded areas immediately after seeding.
b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre. . Wood cellulose fiber used as mulch must be applied at a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to attain a mixture with a maximum of 50 pounds f wood cellulose fiber per 100 gallons of water.

a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large greas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour. ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.

iii. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. Use of asphalt binders is strictly prohibited. iv. Lightweight plastic neiting may be stapled over the mulch according to manufacturer. recommendations. Netting is usually available in rolls 4 to 15 feet wide and 300 to 3,000 feet long.

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

1) A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID), 410-313-1855 after the future LOD and protected area marked clearly in the field. A minimum of 48 hour notice to CID must be given a the

a. Prior to the start of earth disturbance. b. Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading,

c. Prior to the start of another phase of construction or opening of another grading unit, d. Prior to the removal or modification of sediment control practices. Other building or grading inspection approvals may not be authorized until this initial approval by inspection agency is made. Other related state and federal permits shall be referenced,

to ensure coordination and to avoid conflicts with this plan. 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 2011 "MARYLAND STANDARDS AND SPECIFICATIONS FOR THE SOIL EROSION AND SEDIMENT CONTROL", and revisions thereto.

3) Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and seven (7) calendar days as to all other disturbed areas on the project site except for those areas under active arading. 4) All disturbed areas must be stabilized within the time period specified above in accordance with

the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SECRMENT CONTROL FOR TOPSOIL (Sec. B-4-2), permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3). Temporary stabilization (Sec. B-4-8) in excess of 20 ft. must be benched with stable outlet. All concentrated flow, steep slope, and highly eradible areas shall receive soil stabilization matting (Sec. B-4-6).

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 CID.

Site Analysis Total Area of Site Area Disturbed 0.98 Acres. Area to be roofed or paved 0.23 Acres. 0.75 Acres. 1250 Cu. Yds. 1250 Cu. Yds. Area to be vegetatively stabilized Total Fill Offsite waste/borrow area location

7) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance. 8) Additional sediment control must be provided, if deemed necessary by the CID. The site and all controls shall be inspected by the contractor weekly; and the next day after each rain event. A written report by the contractor, made available upon request, is part of every

* Inspection date * Inspection type (routine, pre-storm event, during rain event)

inspection and should include:

* Name and title of inspector * Weather information (current conditions as well as time and amount of last recorded

precipitation) * Brief description of project's status (e.g. percent complete) and/or current activities * Evidence of sediment discharges * Identification of plan deficiencies

* identification of sediment controls that require maintenance

* Identification of missing or improperly installed sediment controls * Compliance status regarding the sequence of construction and stabilization requirements

* Photographs * Monitoring/sampling * Maintenance and/or corrective action performed

* Other inspection items as required by the General Permit for Stormwater Associated with Construction Activities (NPDES, MDE). Trenches for the construction of utilities is limited to three pipe lengths or that which can a

shall be back-filled and stabilized by the end of each workday, whichever is shorter. 10) Any major changes or revisions to the plan or sequence of construction must be reviewed and
11. NOTIFY INSPECTOR FOR FINAL INSPECTION.(1 WEEK) approved by the HSCO prior to proceeding with construction. Minor revisions may allowed by the CID per the list of HSCD-approved field changes. 11) Disturbance shall not occur outside the L.O.D. A project is to be sequenced so that grading

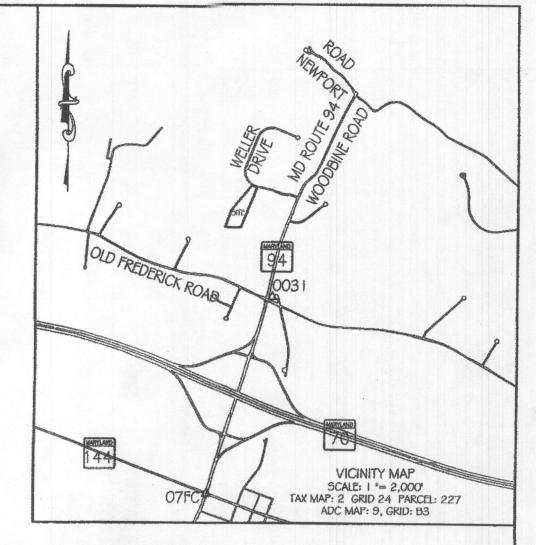
activities begin on one grading unit (maximum acreage of 20 ac. per grading unit at a time. Work may proceed to a subsequent grading unit when at least 50 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the CID. Unless otherwise specified and approved by the CID, no more than 30 acres cumulatively may be disturbed at a given time.

12) Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a sediment basin or other approved washout structure.

13) Top soil shall be stockpilled and preserved on-site for redistribution onto final grade. 14) All Silt Fence and Super Silt Fence shall be placed on-the-contour, and be imbrigated at 25' minimum interval, with lower ends curled uphill by 2' in elevation.

15) Stream channels must not be disturbed during the following restricted time periods (inclusive): * Use I and IP March 1 - June 15 * Use III and IIIP October 1 - April 30 * Use IV March 1 - May 31

16) A copy of this plan, the 2011 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL FROSION AND SEDIMENT CONTROL, and associated permits shall be on-site and available when the site is active.



SEQUENCE OF CONSTRUCTION

1. OBTAIN ALL REQUIRED GRADING, MDE PERMITS, APPROVALS AND LICENSES FROM APPROPRIATE AGENCIES.(1 WEEK)

NOTIFY SEDIMENT CONTROL INSPECTOR AT LEAST THREE (3) WORKING DAYS PRIOR TO STARTING WORK.(1 WEEK)

INSTALL STABILIZED CONSTRUCTION ENTRANCE, SUPER SILT FENCE, DIVERSION FENCE AND OTHER SEDIMENT CONTROL DEVICES AS SHOWN IN THE SEDIMENT \CONTROL PLAN. (1 WEEK)

4. STABILIZE ALL THE GRADED AREAS UP TO 20' OUTSIDE OF THE LIMIT OF GRADING AS PER PERMANENT SEEDING NOTES.(1 WEEK)

5. EXCAVATE HOUSE FOUNDATION, CONSTRUCT HOUSE AND INSTALL UTILITIES.(12 WEEKS)

6. ANY AREAS THAT CAN BE TEMPORARILY SEEDED DURING CONSTRUCTION

MUST BE TEMPORARILY STABILIZED PER SEEDING NOTES.(1 WEEK)

7. CONSTRUCT AND PAVE DRIVEWAY.

8. INSTALL PRIVATE MICRO BIORETENTION FACILITIES, GRASS SHOULDER AND DRIVEWAYS.(2 WEEKS)

9. STABILIZE DISTURBED AREAS PER PERMANENT SEEDING NOTES.(1 WEEK) . UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR: REMOVE ALL TEMPORARY SEDIMENT CONTROL DEVICES FOR HOUSE CONSTRUCTION.(1 WEEK)

DUST CONTROL DUST CONTROL METHOD FOR THIS SITE TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES: CALCIUM CHLORIDE SHALL BE APPLIED TO EXPOSED SURFACES AT A RATE THAT WILL KEEP SURFACE MOIST UNTIL SOIL IS STABILIZED ACCORDING TO VEGETATIVE SPECS. FOR THIS SITE AND AREAS TO BE PAVED ARE COMPLETED.

STANDARD STABILIZATION NOTE

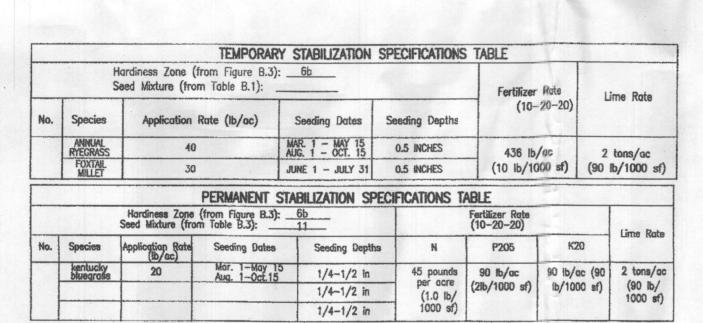
FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN: A. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND B. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED

AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

TEMPORARY STOCKPILE NOTE SITE EARTHWORK HAS BEEN BALANCED SUCH THAT A TEMPORARY STOCKPILE SHOULD NOT BE NECESSARY. SHOULD CONTRACTOR DECIDE TO USE A STOCKPILE CONTRACTOR SHALL PLACE STOCKPILE ON SUITABLE

AREA OF THE SITE AND FOLLOW TEMPORARY

STABILIZATION NOTES.



A mound or pile of soil protected by appropriately designed erosion and sediment

To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

Stockpile areas are utilized when it is necessary to salvage and store soil for later

 The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan. 2. The footprint of the stackpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.

. Runoff from the stockpile area must drain to a suitable sediment control practice.

4. Access the stockpile area from the upgrade side.

diversion device such as an earth dike, temporary swele or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner. 6. Where runoff concentrates along the toe of the stockpile fill, an appropriate

5. Clear water runoff into the stockpile area must be minimized by use of a

erosion/sediment control practice must be used to intercept the discharge. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and undard B-4-4 Temporary Stabilization. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable sheeting.

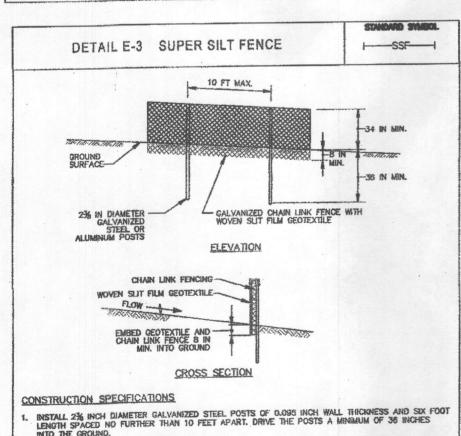
The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1slopes, 30 feet for 3:1 slopes, or 40 feet for 41 slopes, benching must be provided in accordance with Section B-3 Land Grading

PROFESSIONAL CERTIFICATION

and that I am a duly licenced professional engineer under the laws of the

State of Maryland, License No. 18417, Expiration Date: 9-18-23.

I hereby certify that these documents were prepared or approved by me,

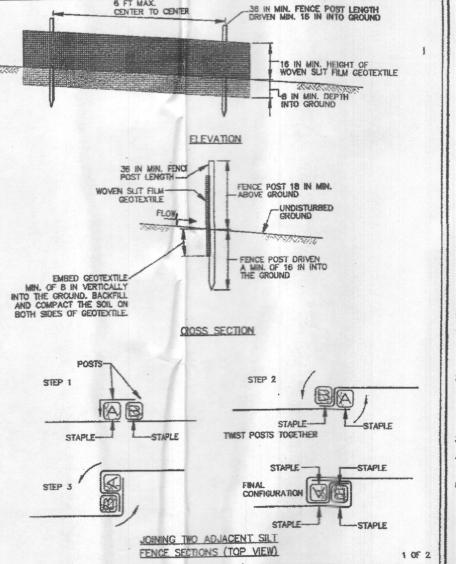


INSTALL 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND. FASTEN 9 GAUGE OR HEAVER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.

FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDMENT BY PASS.

EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THE GEOTEXTILE USED MIRETS THE REQUIREMENTS IN SECTION H-1 MATERIALS. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN, IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

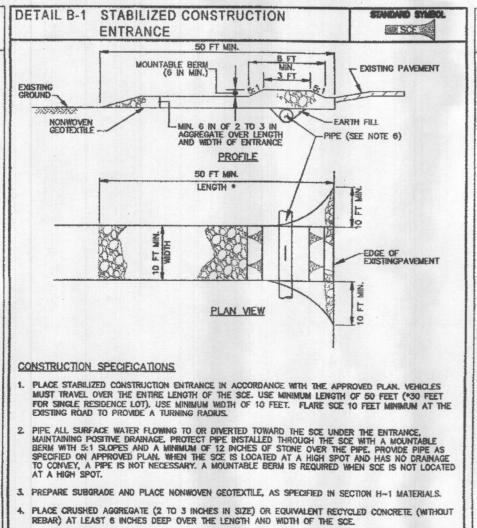
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL



MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

2011

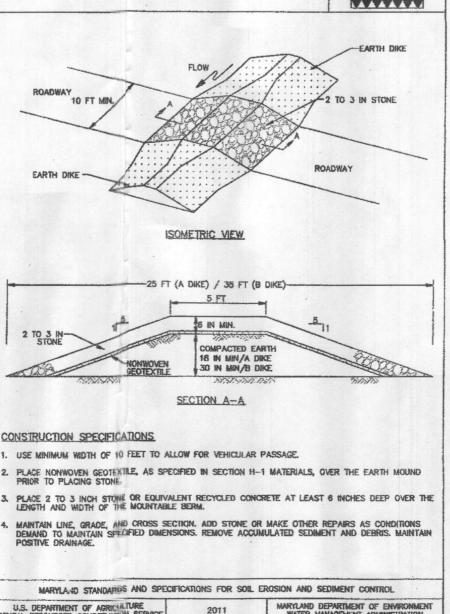
DETAIL E-1 SILT FENCE

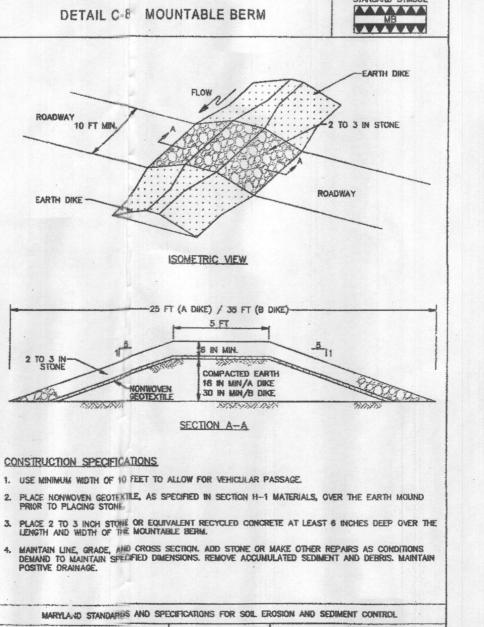


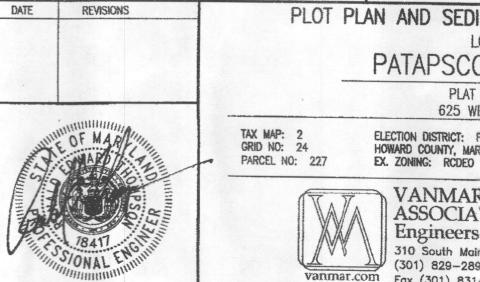
MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR

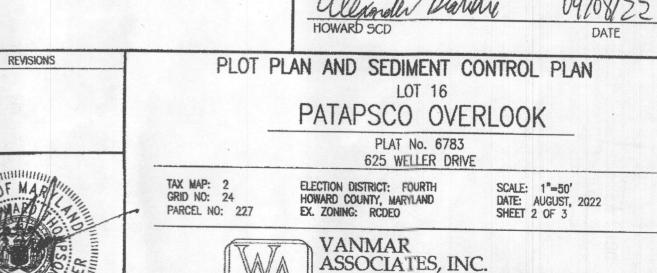
TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL





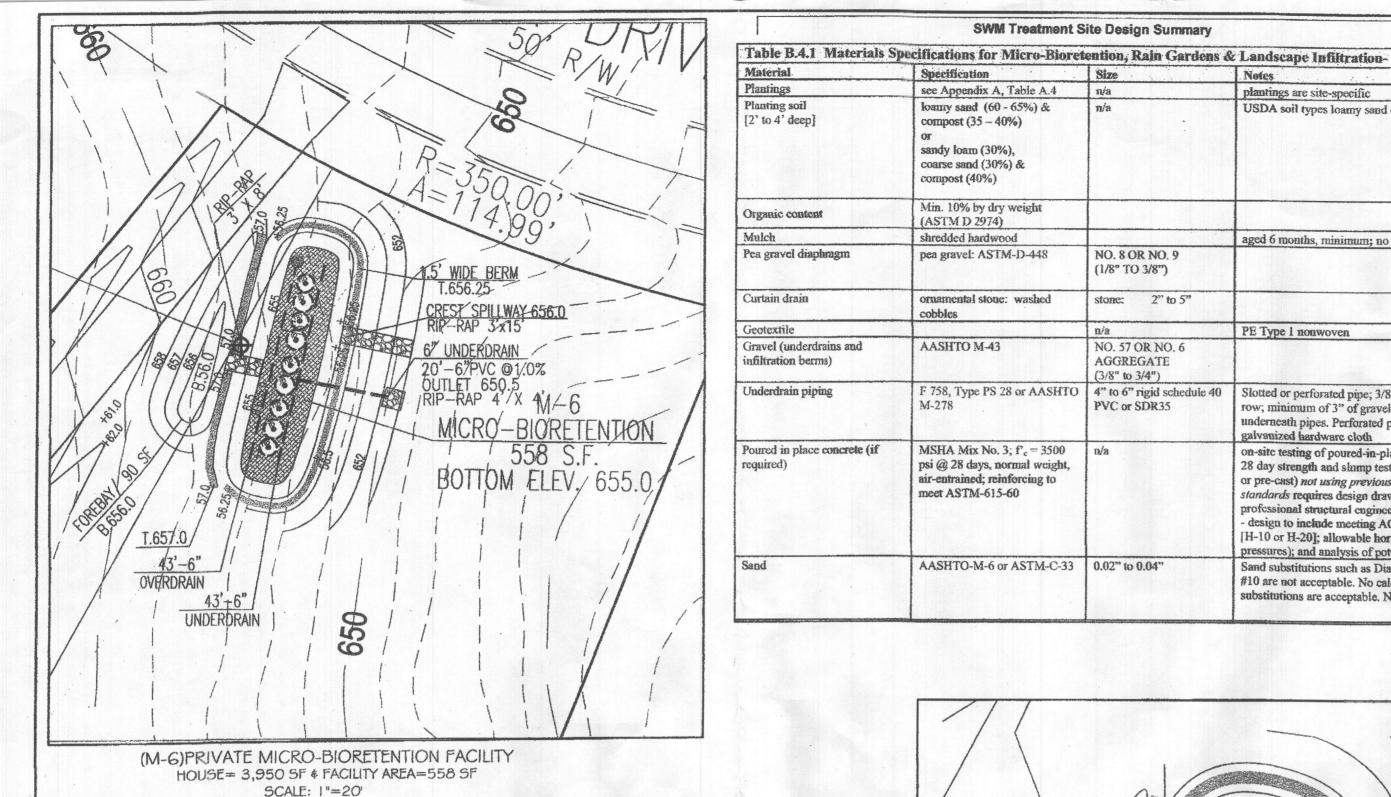


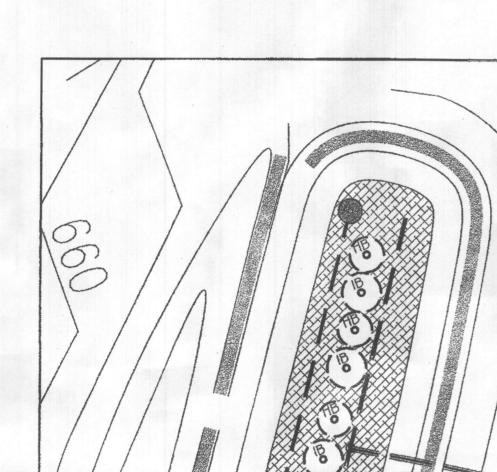


ASSOCIATES, INC. **Engineers Surveyors Planners** 310 South Main Street Mount Airy, Maryland 21771 (301) 829-2890 (301) 831-5015 (410) 549-2751 vanmar.com Fax (301) 831-5603 @Copyright, Latest Date Shown

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION





SWM Treatment Site Design Summary

NO. 8 OR NO. 9

stone: 2" to 5"

NO. 57 OR NO. 6

AGGREGATE

PVC or SDR35

(3/8" to 3/4")

F 758, Type PS 28 or AASHTO 4" to 6" rigid schedule 40

plantings are site-specific

E Type I nonwoven

galvanized hardware cloth

USDA soil types loamy sand or sandy loam; clay content < 5%

Slotted or perforated pipe; 3/8" perf. @ 6" on center, 4 holes per

28 day strength and slump test; all concrete design (cast-in-place

professional structural engineer licensed in the State of Maryland

Sand substitutions such as Diabase and Graystone (AASHTO)

#10 are not acceptable. No calcium carbonated or dolomitic sand

substitutions are acceptable. No "rock dust" can be used for sand.

design to include meeting ACI Code 350.R/89; vertical loading [H-10 or H-20]; allowable horizontal loading (based on soil

or pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a

row; minimum of 3" of gravel over pipes; not necessary underneath pipes. Perforated pipe shall be wrapped with 1/4-inch

on-site testing of poured-in-place concrete required:

pressures); and analysis of potential cracking

aged 6 months, minimum; no pine or wood chips

see Appendix A, Table A.4

loamy sand (60 - 65%) &

compost (35 - 40%)

coarse sand (30%) & compost (40%)

Min. 10% by dry weight

pea gravel: ASTM-D-448

ornamental stone: washed

MSHA Mix No. 3; f's = 3500 | n/a

AASHTO-M-6 or ASTM-C-33 | 0.02" to 0.04"

psi @ 28 days, normal weight,

air-entrained; reinforcing to

meet ASTM-615-60

sandy loam (30%),

(ASTM D 2974)

AASHTO M-43

shredded hardwood

PRIVATE MICRO-BIORETENTION LANDSCAPE SCALE= 1":10"

BELOW OF UNDERDRAIN --- 6" PERFORATED PVC UNDERDRAIN WRAPPED WITH 1/4" MESH OR LENGTH = 50' AND WIDTH = 11.15' SMALLER GALVANIZED HARDWARE CLOTH

a. The Owner shall maintain the plant material, mulch layer and soil layer annually. Maintenance of mulch and soil is limited to correcting areas of erosion or wash out. Any mulch replacement shall be done in the spring. Plant material shall be checked for disease and insect infestation and maintenance will address dead material and pruning. Acceptable replacement plant material is limited to the following: 2000 Maryland Stormwater Design Manual Volume II, Table A.4.1 and 2.

3" TOP OF UNDERDRAIN

b. The Owner shall perform a plant inspection in the spring and in the fall of each year. During the inspection, the Owner shall remove dead and diseased vegetation considered beyond treatment, replace dead plant material with acceptable replacement plant material, treat diseased trees and shrubs, and replace all deficient stakes

(M-6)PRIVATE MICRO-BIORETENTION FACLITIES (24" DEPTH)

OPERATION AND MAINTENANCE SCHEDULE FOR MICRO BIO-RETENTION (M-6)

The Owner shall inspect the mulch each spring. The mulch shall be replaced every two to three years. The previous mulch layer shall be removed before the new layer is applied.

d. The Owner shall correct soil erosion on an as needed basis, with a minimum of once per month and after each heavy storm. Inspect clean outs and observation wells along with overflow/outfall/exit pipes.

		PLANTING LIST	
KEY	QUANTITY	BOTANICAL NAME	SIZE
(B)	5	HIGHBUSH BLUBERRY VACCINIUM CORYMBOSUM	18"
(6)	4	INKBERRY ILEX GLABRA	18"
	15	DWARF FOUNTAIN GRASS PENNISETUM ALOPECURAIDES	12" POTS 2' O.C.

3" MULCH -

#8 STONE -

PERFORATED PIPE WITHIN STONE RESERVOIR

19" #2 STONE-

(3" ABOVE AND 10" BELOW

FILTER FABRIC SIDES ONLY-

24" PLANTING SOIL-

OPERATION AND MAINTENANCE SCHEDULE FOR DISCONNECTION OF NON-ROOFTOP (N-2)

a. MAINTENANCE OF AREAS RECEIVING DISCONNECTED RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE OWNER SHALL ENSURE THE AREA RECEIVING RUNOFF ARE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA. IN COMMERCIAL AREAS, FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

Specifications for Micro-Bioretention, Rain Gardens, Landscape Infiltration & Infiltration Berms

1. Material Specifications

The allowable materials to be used in these practices are detailed in Table B.4.1.

Planting Soil

The soil shall be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches. No other materials or substances shall be mixed or dumped within the micro-bioretention practice that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations. The planting soil shall be free of Bermuda grass, Quackgrass, Johnson grass, or other noxious weeds as specified under COMAR

Soil Component - Loamy Sand or Sandy Loam (USDA Soil Textural Classification) Organic Content - Minimum 10% by dry weight (ASTM D 2974). In general, this can be met with a mixture

of loamy sand (60%-65%) and compost (35% to 40%) or sandy loam (30%), coarse sand (30%), and compost Clay Content - Media shall have a clay content of less than 5%.

pH Range - Should be between 5.5 - 7.0. Amendments (e.g., lime, iron sulfate plus sulfur) may be mixed

There shall be at least one soil test per project. Each test shall consist of both the standard soil test for pH, and additional tests of organic matter, and soluble salts. A textural analysis is required from the site stockpiled topsoil. If topsoil is imported, then a texture analysis shall be performed for each location where the topsoil was

It is very important to minimize compaction of both the base of bioretention practices and the required backfill. When possible, use excavation hoes to remove original soil. If practices are excavated using a loader, the contractor should use wide track or marsh track equipment, or light equipment with turf type tires. Use of equipment with narrow tracks or narrow tires, rubber tires with large lugs, or high-pressure tires will cause excessive compaction resulting in reduced infiltration rates and is not acceptable. Compaction will significantly

Compaction can be alleviated at the base of the bioretention facility by using a primary tilling operation such as a chisel plow, ripper, or subsoiler. These tilling operations are to refracture the soil profile through the 12 inch compaction zone. Substitute methods must be approved by the engineer. Rototillers typically do not till deep enough to reduce the effects of compaction from heavy equipment.

Rototill 2 to 3 inches of sand into the base of the bioretention facility before backfilling the optional sand layer. Pump any ponded water before preparing (rototilling) base.
When backfilling the topsoil over the sand layer, first place 3 to 4 inches of topsoil over the sand, then rototill the sand/topsoil to create a gradation zone. Backfill the remainder of the topsoil to final grade.

When backfilling the bioretention facility, place soil in lifts 12" to 18". Do not use heavy equipment within the bioretention basin. Heavy equipment can be used around the perimeter of the basin to supply soils and sand. Grade bioretention materials with light equipment such as a compact loader or a dozer/loader with marsh

Compost is a better organic material source, is less likely to float, and should be placed in the invert and other low areas. Mulch should be placed in surrounding to a uniform thickness of 2" to 3". Shredded or chipped hardwood mulch is the only accepted mulch. Pine mulch and wood chips will float and move to the perimeter of the bioretention area during a storm event and are not acceptable. Shredded mulch must be well aged (6 to 12 months) for acceptance.

Rootstock of the plant material shall be kept moist during transport and on-site storage. The plant root ball should be planted so 1/8th of the ball is above final grade surface. The diameter of the planting pit shall be at least six inches larger than the diameter of the planting ball. Set and maintain the plant straight during the entire planting process. Thoroughly water ground bed cover after installation

Trees shall be braced using 2" by 2" stakes only as necessary and for the first growing season only. Stakes are to be equally spaced on the outside of the tree ball.

Grasses and legume seed should be drilled into the soil to a depth of at least one inch. Grass and legume plugs shall be planted following the non-grass ground cover planting specifications.

The topsoil specifications provide enough organic material to adequately supply nutrients from natural cycling. The primary function of the bioretention structure is to improve water quality. Adding fertilizers defeats, or at a minimum, impedes this goal. Only add fertilizer if wood chips or mulch are used to amend the soil. Rototill urea fertilizer at a rate of 2 pounds per 1000 square feet.

MAINTENANCE CRITERIA

1. The following items should be addressed to ensure proper maintenance and long-term performance of

2. Privately owned practices shall have a maintenance plan and shall be protected by easement, deed restriction, ordinance, or other legal measures preventing its neglect, adverse alteration, and removal.

3. During the first year of operation, inspection frequency should be after every major storm and poorly

4. Sediment accumulation on the surface of the facility should be removed and the top two to three inches of surface layer replaced as needed.

5. The top few inches of the planting soil should be removed and replaced when water ponds for more than 48 hours or there is algal growth on the surface of the facility.

6. If standing water persists after filter media has been maintained, the gravel, soil, and sand may need to be

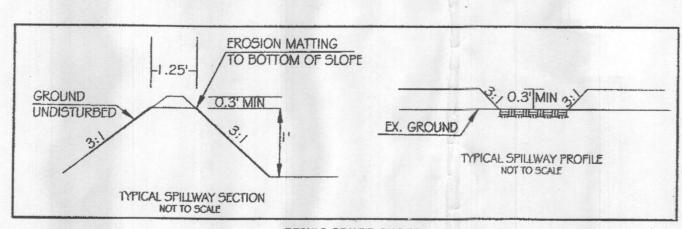
7. Occasional pruning and replacement of dead vegetation is necessary. If specific plants are not surviving, more appropriate species should be used. Watering may be required during prolonged dry periods.

Lot Number	ADDRESS	DISCONNECTION OF NON- ROOFTOP RUNOFF	MICRO BIORETENTION	
		N-2	M-6	
		(Y/N)	(NUMBER)	
16	Patapsco Overlook	Y	1	

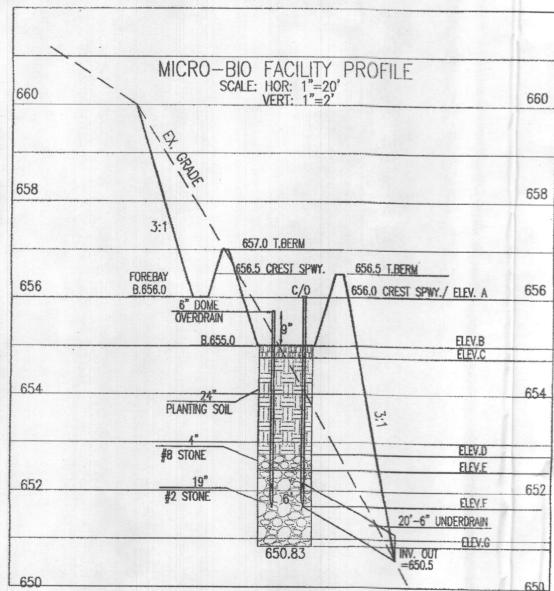
	SWM FACILITY TAE	BLE
SWM#1	M-6 MICRO BIO-RETENTION	50' x 11.15' -12" PONDING

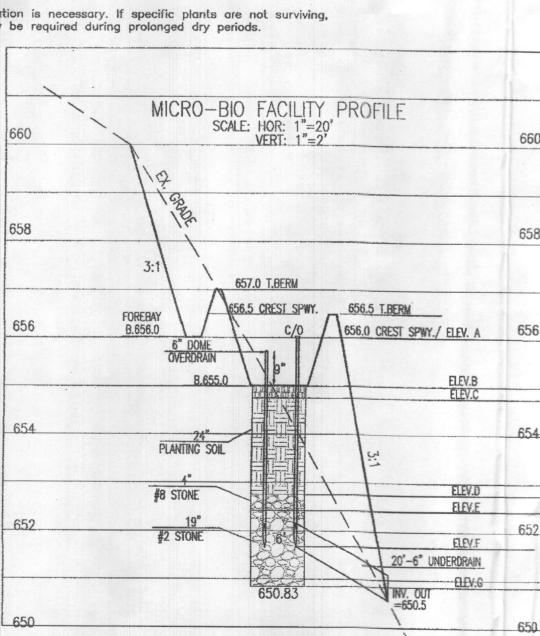
MICRO BIO RETENTION FACILITY DIMENSION TABLE

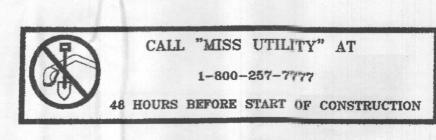
	-3		7110110		VE I FIA	INTERIOR	WILLIE F	TIVILINO	ION INL	/LL		
FACILITY NO.	LOCATION	DIMENSION	DEPTH(FT) ELEV.A	MULCH ELEV.B	OF MULCH ELEV.B	PLANT MIX ELEV. D	#4 GRAVEL ELEV. E	#57 STONE (FT)	SIZE OF UNDERDRAIN (INCH)	INVERT OF UNDERDRAIN ELEV. F	BOTTOM OF #57 STONE ELEV. G	REMARKS
la l	PATAPSCO OVERLOOK LOT 16	50' X 11.15 (558 SF)	656.00	655.00	654.75	652.75	652.42	1.58	6	651.67	650.83	24" PLANING DEPTH

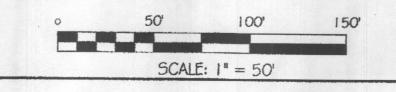


DETAILS OF WEIR OUTLET MICRO BIO RETENTION

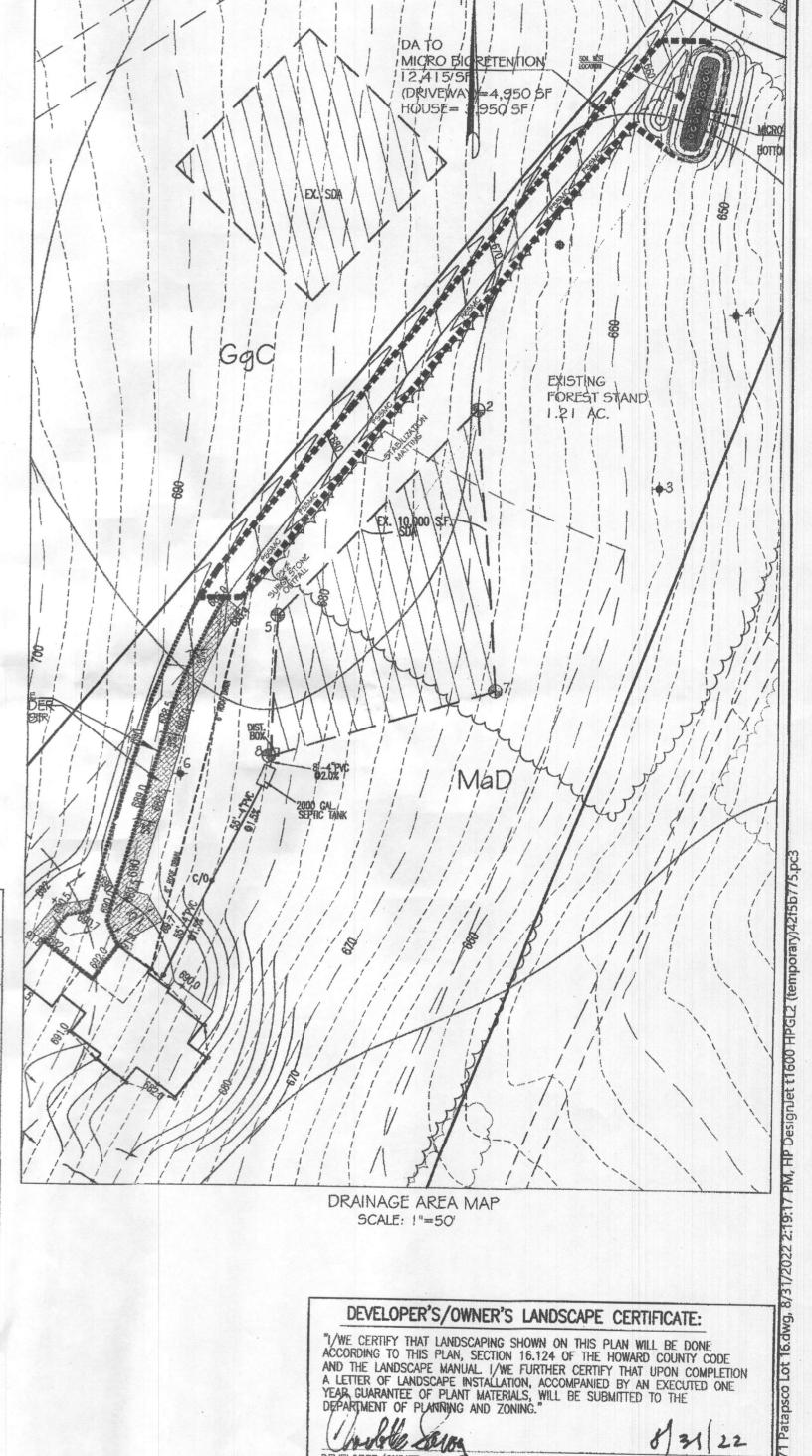








PROFESSIONAL CERTIFICATION I hereby certify that these documents were prepared or approved by me, and that I am a duly licenced professional engineer under the laws of the State of Maryland, License No. 18417, Expiration Date: 9-18-23.



PLOT PLAN AND SEDIMENT CONTROL PLAN

PATAPSCO OVERLOOK

PLAT No. 6783

625 WELLER DRIVE

ASSOCIATES, INC.

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ELECTION DISTRICT: FOURTH

HOWARD COUNTY, MARYLAND

VANMAR

EX. ZONING: RCDEO

GRID NO: 24

PARCEL NO: 227

DATE: AUGUST, 2022 SHEET 3 OF 3