Martin O'Malley

Governor

Anthony G. Brown



Margaret G. McHale

Ren Serey
Executive Director

STATE OF MARYLAND CRITICAL AREA COMMISSION CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100, Annapolis, Maryland 21401 (410) 260-3460 Fax: (410) 974-5338 www.dnr.state.md.us/criticalarea/

April 1, 2008

Mr. Blaine Smith Zoning Administrator Town of Ocean City PO Box 158 Ocean City, MD 21843

Re:

Sorenson Building Permit

14528

Dear Mr. Smith:

Thank you for providing information on the above referenced building permit application. The applicant is proposing to construct a duplex dwelling. Critical Area issues include stormwater management, pollutant removal, and afforestation.

The lot is 4,696 square feet in size, is zoned R-1, and has a setback of 15 feet. The lot is currently developed with a two-story building, paved driveway, covered porch, second floor deck, and wood walk. The applicant proposes to remove the existing structures and construct a duplex, pervious paver drive, first floor pervious deck, and two second floor pervious decks. Total existing impervious surface onsite is 3,346 square feet (71.25%). The applicant proposes to reduce impervious surface onsite to 2,864 square feet (60.9%). To meet mitigation requirements in the 100-foot Buffer, the applicant is required to provide 3,772 square feet of mitigation; the applicant proposes to plan 2 large trees (Japanese black pine), 6 small trees (crape myrtle), 20 large shrubs (blue point juniper), 15 small shrubs (Japanese barberry), and 20 herbaceous plants (bugleweed). In addition, the applicant will pay \$578.40 as a fee-in-lieu for landscaping. The applicant is meeting 10% phosphorus removal requirements by reducing impervious surface onsite.

Based on the information provided, we have the following comment on this project:

1. Within the 100-foot Buffer area, the applicant proposes to construct a duplex, pervious paver drive, pervious deck, and two second floor pervious decks; the total area allocated for all three decks is 454 square feet. The Town of Ocean City Atlantic

Coastal Bays Critical Area Program §30-554(d)(1) states that, "New development, including accessory structures, shall minimize the extent of intrusion into the Buffer..." While we understand that the Town of Ocean City Atlantic Coastal Bays Critical Area Program allows pervious decks in the setback, and we will continue to discuss this issue with staff, it appears that the size and location of the duplex and decks do not minimize Buffer intrusion. To minimize water quality and habitat impacts, we recommend reducing the size of the proposed first floor deck, removing the two second floor decks, and fully planting the remaining area of the setback with the native vegetation that is required for mitigation. We note that existing dwelling currently has a 180 square foot deck located within the setback.

2. The applicant proposes to plant Japanese barberry and bugleweed for mitigation purposes. Japanese barberry is listed as an invasive species to the Mid-Atlantic natural areas, and bugleweed, while not officially listed, is known to show invasive tendencies as well. Commission staff recommends that the applicant plant highbush blueberry and sneezeweed in lieu of the aforementioned species.

Thank you for the opportunity to provide comments on this building permit request. Please have the applicant provide the information requested above. If you have any questions, please feel free to call me at (410) 260-3483.

Sincerely,

Nick Kelly, Ph.D

Natural Resource Planner

cc: OC 185-08

Mick Kell

P.O. BOX 158



Reply to: Planning and Community Development P.O. Box 158 Ocean City, MD 21843 410-289-8855

April 9, 2008

Mr. Nick Kelly State of Maryland Critical Area Commission 1804 West Street, Suite 100 Annapolis, MD 21401

Dear Nick:

Re: Sorenson Site Plan Application #08-14528 Your File # OC 185-08

We have received your comments regarding the above referenced building permit and will take them under advisement. As you know, the Town of Ocean City is an Intensely Developed Area with buffer management regulations approved by the Critical Area Commission and the Mayor and City Council. Our Critical Area Program and City Code set forth specific development regulations for the critical area buffer (Section 30-554 (d)(2)). Our review indicates that the site plan as submitted is consistent with those regulations.

Please be assured that we appreciate the assistance that you provide in reviewing projects in the Critical Area, and that we take your comments seriously and apply them in accordance with adopted regulations.

Sincerely,

R. Blaine Smith Zoning Administrator

Blacké m

/m

cc: Permit File #08-14528 File 1501.13.2 Correspondence '08





OCEAN CITY, MARYLAND 21843-0158

MAYOR & CITY COUNCIL.

www.town.ocean-city.md.us

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CAROL L. JACOBS City Clerk

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CRITICAL AREA COMMISSION FOR THE CHESAPEAKE AND ATLANTIC COASTAL BAYS 1804 WEST STREET, SUITE 100 ANNAPOLIS, MD 21401

PROJECT NOTIFICATION APPLICATION

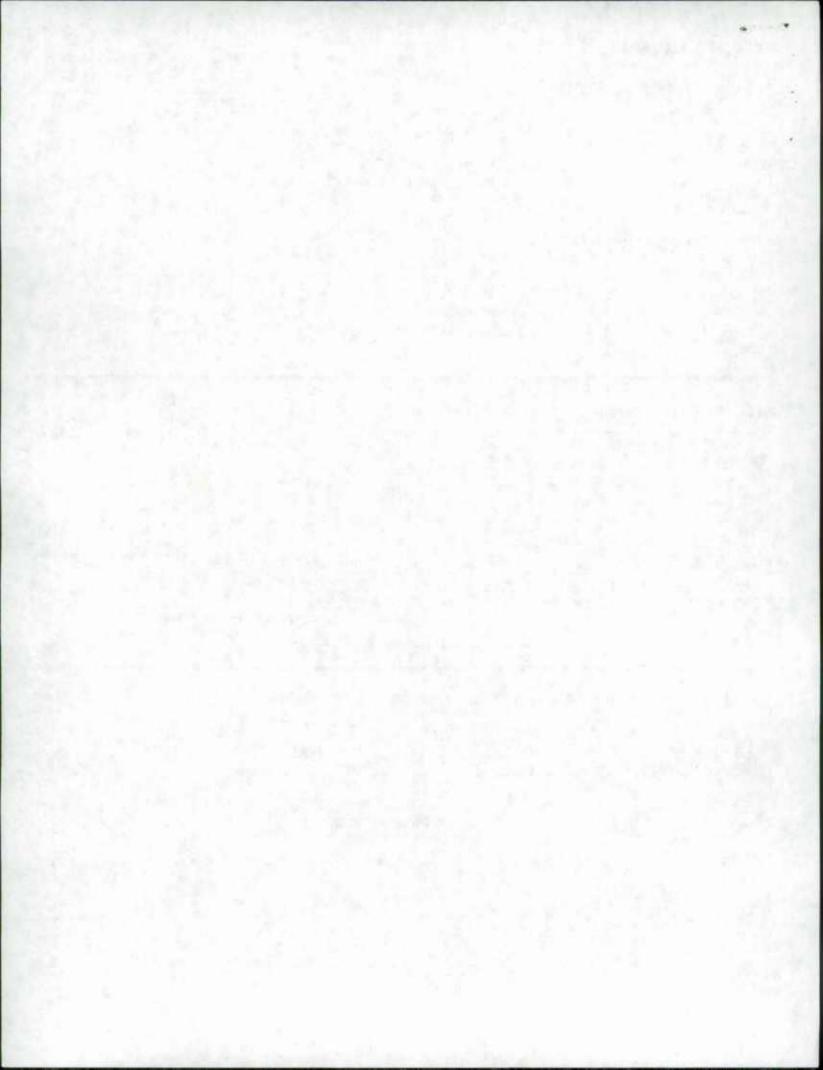
GENERAL PROJECT INFORMATION

	Town of Ocea	n City, MD			D	Date: 03/27/08
T > 1 "			T			FOR RESUBMITTAL ONLY
Tax Map #	Parcel #	Block #	Lot #	Section		Corrections
118	0042B	34	4			Redesign
						No Change
						Non-Critical Area
						*Complete Only Page 1
						General Project Information
						STATE OF STREET
Project Name	(site name, su	bdivision nam	ne, or other)	Sorensen		
Project location	on/Address	14122 Laurel	Ave			
City Ocean	City, MD			Zip	21842	Market Tolk State of the
Local case nu	mber	14528				
Applicant:	Last name	Sorensen			Firs	t name Casper
Company	1- 1-					
Application 7	Гуре (check a	II that annly)	•			
		п tпат арргу <i>)</i>				
Building Perm			Other			
Buffer Manag			Rezoni			RECEIVE
Conditional U			Site Pla			
7		H	Special	Exception		MAR 2 8 2008
Consistency R			Subuly	181011		1 2000
Disturbance >		H				
			Varian			CDITION
Disturbance > Grading Perm		TInformation	Varian			CRITICAL AREA COMM. Chesapeake & Atlantic Coastal Da
Disturbance > Grading Perm Local Jurisdi	it	t Information	Varian		Ō	CRITICAL AREA COMM. Chesapeake & Atlantic Coastal Ba
Disturbance > Grading Perm Local Jurisdi Last name	it Contact		Varian	Blaine	sion Requ	Chesapeake & Atlantic Coastar Da



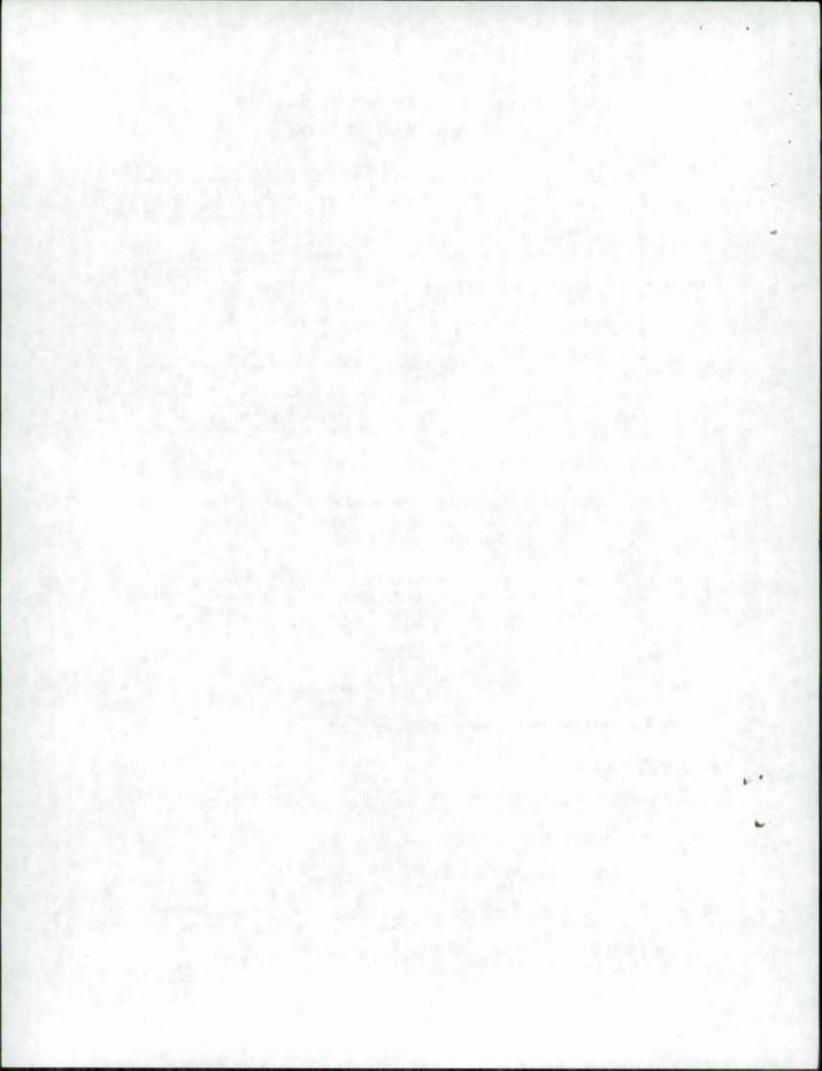
SPECIFIC PROJECT INFORMATION

Describe Proposed use	of project si	te:				
Duplex						
					10	
	Yes			Yes		
Intra-Family Transfer			owth Alloca			
Grandfathered Lot		Bu	ffer Exemp	tion Area		
Project Type (check a	ll that apply	y)				
Commercial		Rec	reational			
Consistency Report		Red	levelopmen	t —		
ndustrial		Res	idential			
nstitutional		Sho	re Erosion	Control		
Mixed Use		Wa	ter-Depende	ent Facility		
Other						
ITE INVENTORY (
	Acres		q Ft	Total Disturbed Area	4696	
DA Area		469	5			
DA Area				# of Lots Created		
.CA Area						
otal Disturbed Area		469	5			
		Acres	Ca Et		Aanaa	Co Et
Existing Forest/Woodland	d/Trans	Acres	Sq Ft	Existing Impervious Surface	Acres	Sq Ft 3346
Created Forest/Woodland				New Impervious Surface		3340
emoved Forest/Woodland				Removed Impervious Surface		482
temoved i orest woodia	ild/Trees			Total Impervious Surface		2864
				Total Impervious Surface		2004
ARIANCE INFORM	AATION (C	Check all th	nat apply)			
		Acres	Sq Ft		Acres	Sq Ft
uffer Disturbance				Buffer Forest Clearing		
on-Buffer Disturbance				Mitigation		
Variance Type			St	ructure		
Buffer			Acc. Stru	cture Addition		
orest Clearing			Barn			
IPA Impact	WHITE N		Deck			
mpervious Surface			Dwelling			
xpanded Buffer			Dwelling	Addition		
Nontidal Wetlands			Garage			
			Gazebo			
nner			JULIUU			
Other Setback	H					
etback			Other			
			Other Patio			
etback			Other			



Critical Area Project Application Town of Ocean City

Date: 2.20.08 File# 10460-07 14328
Project Name: Sorensan
Project Address 14122 LAUREL AVE. OLEAN LITY
Tax Map: 118 Parcel: 42B Block: 34 Lot# 4 Zoning 2-1
Property Owner BOBERTS., FREDA N., É DAVID A. CHASE Phone
Property Owner Address 7647 GREENDELL LANE, HIGHLAND, MID 20777
Parcel size (SF): 4,696 or Site Area (SF) (If < 50% of parcel) Site size (SF) = area of disturbance plus 5 feet perimeter of actual construction
I. PROJECT DESCRIPTION
Parcels 40,000 SF or more: Critical Area setback is 25 feet. No impervious surface or cantilevering permitted within 25 feet of the shoreline/wetlands. ("Pervious" decks are permitted 10' into setback, per construction standards.)
Parcels less than 40,000 SF: Critical Area set back is equal to the zoning setback (15' feet). No impervious surface or cantilevering permitted within the setback. ("Pervious" decks at ground level are permitted in the setback, per construction standards.)
Existing Conditions
Impervious surface (SF) 3346 % of site impervious: 71.3
Impervious surface within the 100-foot buffer (SF): 3,346
Proposed Conditions
Impervious surface (SF): 2,864 % of site impervious: 61.0
Total SF of disturbed area: 4,696
Impervious surface within the 100-foot buffer (SF): 2,864
Is project in the 100 foot buffer? Yes No (If yes, continue with Sec. II (If no, skip to Sec. III)
Form Revised 8/2/2007(S:Critical Area Project Application.doc)



II. MITIGATION WORKSHEET IN THE 100-FOOT BUFFER

1.		ached Single Family Dwellings (Need Landscaping Plan with schedule/legen	d per
	conv	version chart below)	
	Valu	e of Construction: \$ 260,000	
	a.	Landscape required in the amount of 2% of the cost of construction of construction $x .02 = \$$	(Valu
	b.	Total landscape provided. Attach landscape plan with schedule of nati material and cost values. \$	ve plai
	c.	Mitigation requirement (if $a - b > 0$) = Fee in Lieu of landscape. \$(To be paid prior to issuance of Certificate of Occupancy.)	of
	d.	Setback from water/wetlands $SF \times .25 = SF$ (Landscape SF to be provided in setback area to be shown on Landscaping	Plan)
2	Mul	ti-Family and Commercial	
4.	Muli	All SF values determined from "Landscape Conversion Chart" below.	
		An or values determined from Landscape Conversion Chart below.	
Ac	tivity	Description (Complete all that apply):	
		es or shrubs removed from outside of setback:	
•••	1100	# x SF x 1= SF	7
b.	Tree	es or shrubs removed from setback # x SF x 2= N/A SF	
c.	Perv	vious to impervious \bigcirc SF x 2 = \bigcirc SI	
d.	Impi	roved pervious to improved pervious N/A SF x 1 = N/A SF	
		isturbed surface disturbed but remaining pervious	
		N/A SF x 1 = N/A SF	
f.	Impe	ervious to impervious $\frac{2864}{\text{SF} \times 1} = \frac{1000}{2864} = \frac{1000}{\text{SF}}$	7
g.	Impe	ervious to pervious N/A SF x 0 = 0 SF	
h.	Cons	struction of decks in setback 454 SF x 2 = 908 SI	र
		AL MITIGATION REQUIRED (sum of a through h) = 3772 SF	
j.	TOTA	AL LANDSCAPE PROVIDED (Refer to "Landscape Conversion Chart" below)	
		Number Value Total	
		Large trees $\#$ 2 x 200 SF $=$ 4∞ SF	
		Small trees $\#$ \bigcirc x 100 SF $=$ \bigcirc SF	
		Large shrubs $\# 20 \times 75 \text{ SF} = 1500 \text{ SF}$	
		Small shrubs $\# 15 \times 50 \text{ SF} = 750 \text{ SF}$	
		Herbaceous Plants # $\frac{20}{20}$ x $\frac{2}{2}$ SF	
		TAL VALUE OF LANDSCAPE PROVIDED 3290 SF	201
K.		-IN-LIEU OF LANDSCAPE = $i - j \times \$1.20 - \$578.40 - 482 \times 1.00$	20)
		be paid prior to issuance of Certificate of Occupancy)	
I.		ack from water/wetlands 750 SF x .25 = 87.50 SF	
	(Land	dscape SF to be provided in setback area)	

LANDSCAPE CONVERSION CHART

MITIGATION

Large tree = 200 square feet = 2" to $2\frac{1}{2}$ " caliber - \$200.00 credit

Small tree = 100 square feet = 1" to 1 $\frac{1}{2}$ " caliber - \$100.00 credit

Large shrub = 75 square feet = 36" height or spread or 3+ gallon container - \$75 credit

Small shrub = 50 square feet = 24" height or spread or 1-2 gallon container - \$50 credit

Herbaceous plants = 2 square feet per plant = 1 quart container - \$2 credit

III. <u>AFFORESTATION (LANDSCAPE) REQUIREMENT OUTSIDE THE 100-FOOT BUFFER</u>

All development or redevelopment within the 1000-foot Critical Area boundary (but outside the 100-foot buffer) must be vegetated with native plant material in an amount of 15% of the site area.

a. Total landscape required: Parcel size 4706 SF x .15 = 765 SF (This SF area must be plantable and vegetated with the required number of plants)

b. Landscape provided (Refer to Landscape Conversion Chart)

				Existing		Proposed	
Large trees	# 2	_ x	200 SF =		SF	400	SF
Small trees	# 6	_ x	100 SF =		SF	400	SF
Large shrubs	# 20	_ x	75 SF =		SF	1500	SF
Small shrubs	# 15	x	50 SF =		SF	750	SF
Herbaceous Pla	ints # 26	_ X	2 SF= _		SF	40	SF

TOTAL VALUE OF LANDSCAPE PROVIDED: 3290 SF

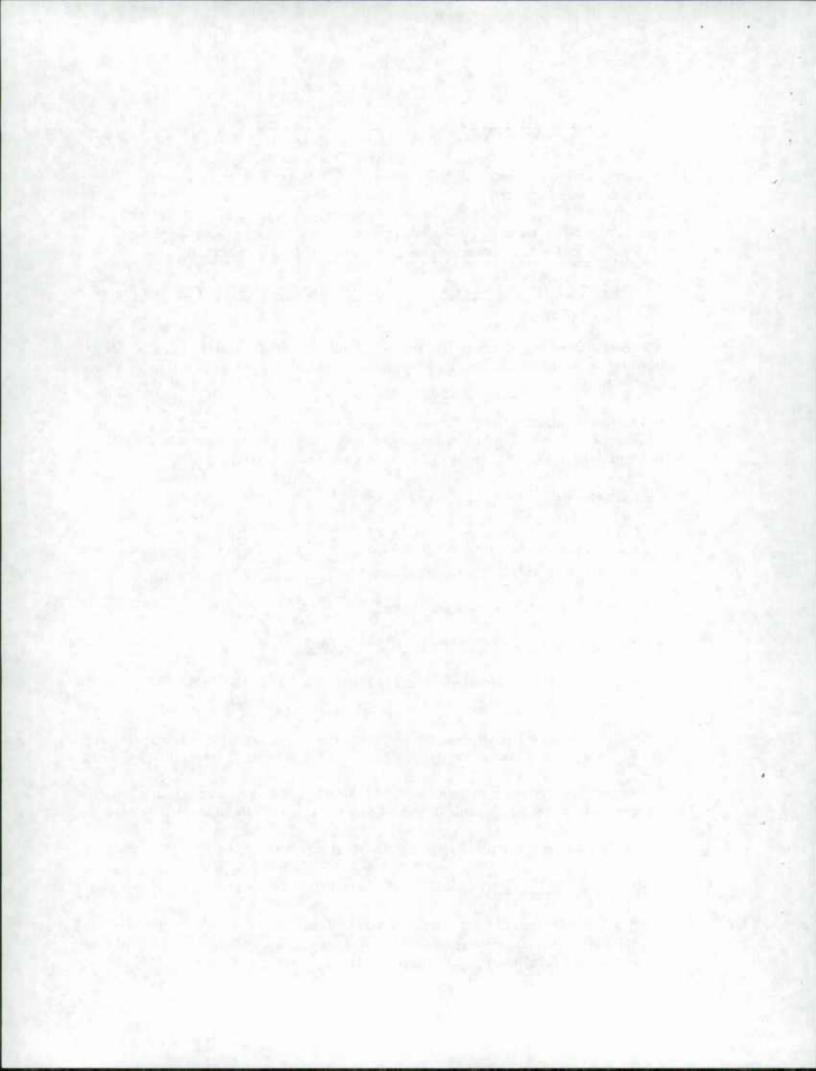
IV. STORMWATER MANAGEMENT AND THE 10% RULE

Pollutant reduction requirement for all disturbances over 250 SF in the 1000-foot Critical Area.

- 1. Single family development subject to stormwater management requirements that use the "Standard Stormwater Management Plan" automatically meet the 10% Rule.
- 2. Single family development not subject to stormwater management regulations can meet the intent of the 10% Rule by submitting a Water Quality Management Plan.
- 3. Multi-family and commercial development must submit the 10% Rule Worksheet.

V. <u>HABITAT PROTECTION</u> (skip if it is less than 40,000 SF)

For lots of 40,000 square feet or greater, the applicant must consult with the Maryland Department of Natural Resources to determine the existence of any Habitat Protection Areas that may be affected by the proposed development.



VI. LANDSCAPE PLAN

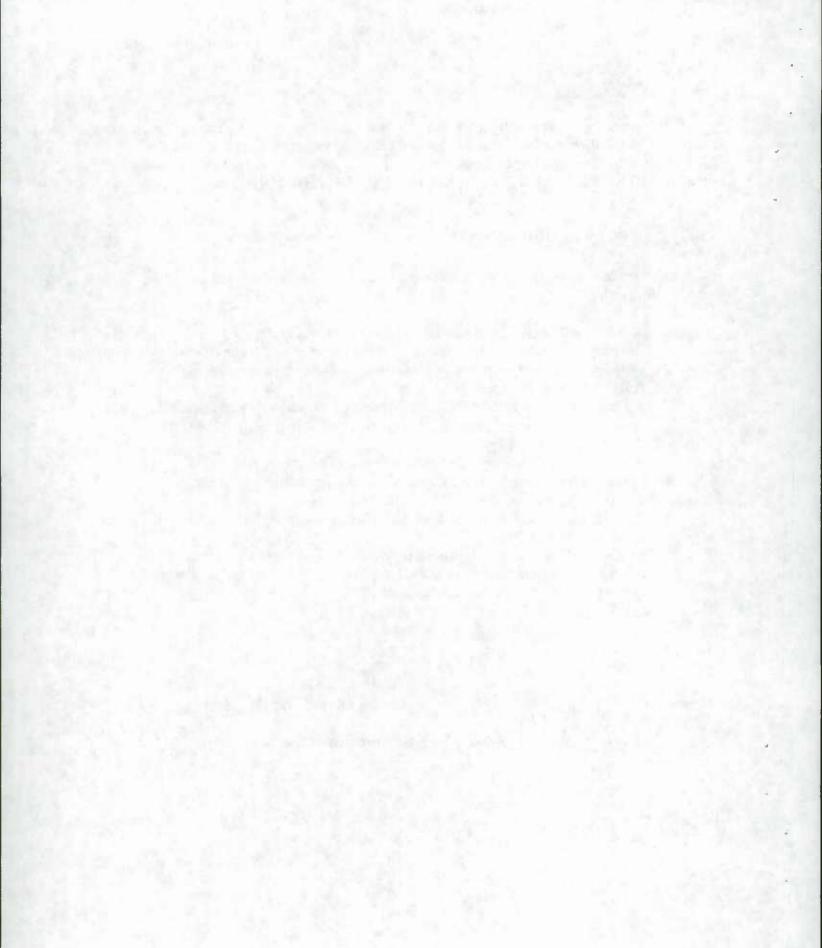
Proposed landscape/mitigation plan (including location, botanical name, common name and installation site and should show all required vegetation according to the Mitigation or Afforestation requirements as well as all vegetation required in accordance with CHAPTER 98, ARTICLE II, LANDSCAPING, OF THE CODE.

VII. SITE PLAN REQUIREMENTS

Critical Area site plan must be drawn to scale and shall include the following information:

- 1. A title block, including the name of the project or development and the names of the property owner, project data including street name, tax map -parcel and lot,
- 2. Property lines and approximate location of adjoining property structures
- 3. North arrow, scale, and legend,
- 4. All improvements and impervious surfaces (including all structures, sidewalks, sheds, decks, driveways, pools, etc.) labeled as existing or proposed show dimensions and tabulate
- 5. Existing and proposed grades and elevation (Topography)
- 6. Limit of all proposed clearing, grading and disturbance.
- 7. Existing Vegetation, size and type with legend, and
- 8. Proposed landscape/mitigation plan (including location, botanical name, common name and installation site
- 9. Mean high water line or Delineation of private and State tidal wetlands and Delineation of non-tidal wetlands (If applicable)
- 10. 100-foot Buffer and setback delineated (If applicable)
- 11. Habitat protection areas (if applicable)

Reviewed by: J. Shir With	_ Zoning Administrator	Date 3	17	08
Duit & Blay	_Environmental Engineer	Date 3//	8/	08

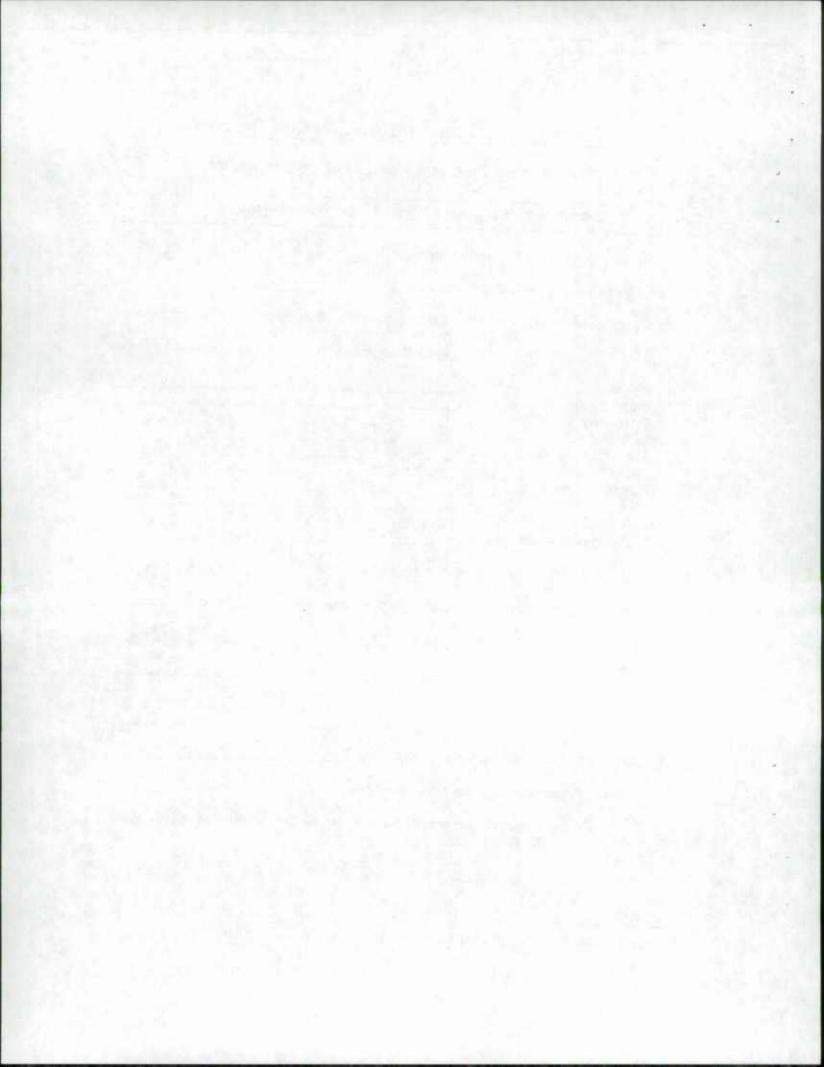


Worksheet A: Standard Application Process

Calculating Pollutant Removal Requirements¹

١.			
	Calculate Percent Impervi	ousness	
			acres
)	Site Area within the Critical		
2)	Site Impervious Surface Are	ea, Existing and Proposed	, (See Table 4.1 for details)
		(a) Existing (acres)	(b) Proposed (acres)
	Roads Parking lots		2 22 27
	Driveways	0.0374	0.0097
	Sidewalks/paths	0,0036	0.,8538
	Rooftops	0.0280	0.0107
	Decks Swimming pools/ponds Other	8,3072	
	Impervious Surface Area	0.0768	0.6793
3)	Non-Structural BMPs Appli		
	Non-Structural BMP	Disconnected Impervio	us Area, Proposed (acres)
	PERVIOUS DECKS	0.0107	
	PERVIOUS PAVER DRIVE	307. × 0.0097 = C	0,8027
	Disconnected Impervious	Area 0.0136	
4)	Adjusted Proposed Imper		
•			Disconnected Impervious Ar
	= Proposed II	npervious Surface Area -	Disconnected Impervious Ar
	= (Step 2b) - = (0.0793)-(0.0136)	
	= 0.0657		

¹ NOTE: All acreage used in this worksheet refers to areas within the IDA of the Critical Area only.



5) Imperviousness (1)

Existing Imperviousness, Ipre Impervious Surface Area / Site Area (Step 2a) / (Step 1) (0.0768)110.107

Proposed Imperviousness, Ipost Impervious Surface Area / Site Area

(Step 4) / (Step 1) 0.0657 1110,107 61.4

C. Define Development Category (circle)

Existing imperviousness greater than 15% I (Go to Step 2A) 1) Redevelopment:

2) New Development: Existing imperviousness less than 15% I (Go to Step 2B)

3) Single Lot Residential: Single lot being developed or improved; single family residential; and more than 250 square feet being disturbed (Go to Section 5, Residential Approach, for detailed criteria and requirements.)

Step 2: Calculate the Predevelopment Load (Lpre)

A. Redevelopment

(R_v) (C) (A) (8.16) Lpre

R. $0.05 + 0.009 (I_{pre})$

0.05 + 0.009(71.7) = 0.6953

(5.6953)(6.30)(0.107)(8.16)Lpre

0,182_ lbs/year of total phosphorus

Where:

Average annual load of total phosphorus exported from the site prior to development (lbs/year)

Runoff coefficient, which expresses the fraction of rainfall which is R_v converted into runoff

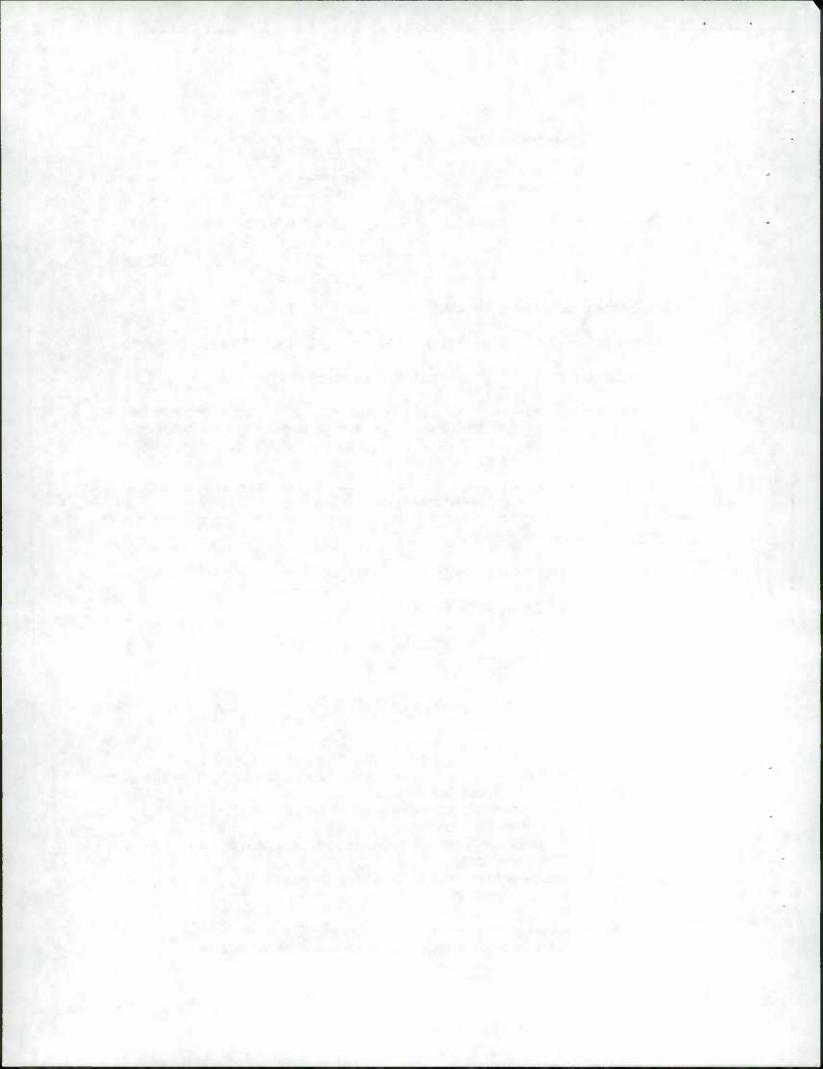
Predevelopment (existing) site imperviousness (i.e., I = 75 if site is pre 75% impervious)

Flow-weighted mean concentration of the pollutant (total phosphorus) C in urban runoff (mg/l)

0.30 mg/l

Area of the site within the Critical Area IDA (acres) = A.

8.16 Includes regional constants and unit conversion factors



B. New Development

$$L_{pre} = (0.5) (A)$$
= (0.5) (_______

ibs /year of total phosphorus

Where:

Step 3: Calculate the Post-Development Load (Lpost)

A. New Development and Redevelopment:

$$L_{post} = (R_v) (C) (A) (8.16)$$

$$R_v = 0.05 + 0.009 (I_{post})$$

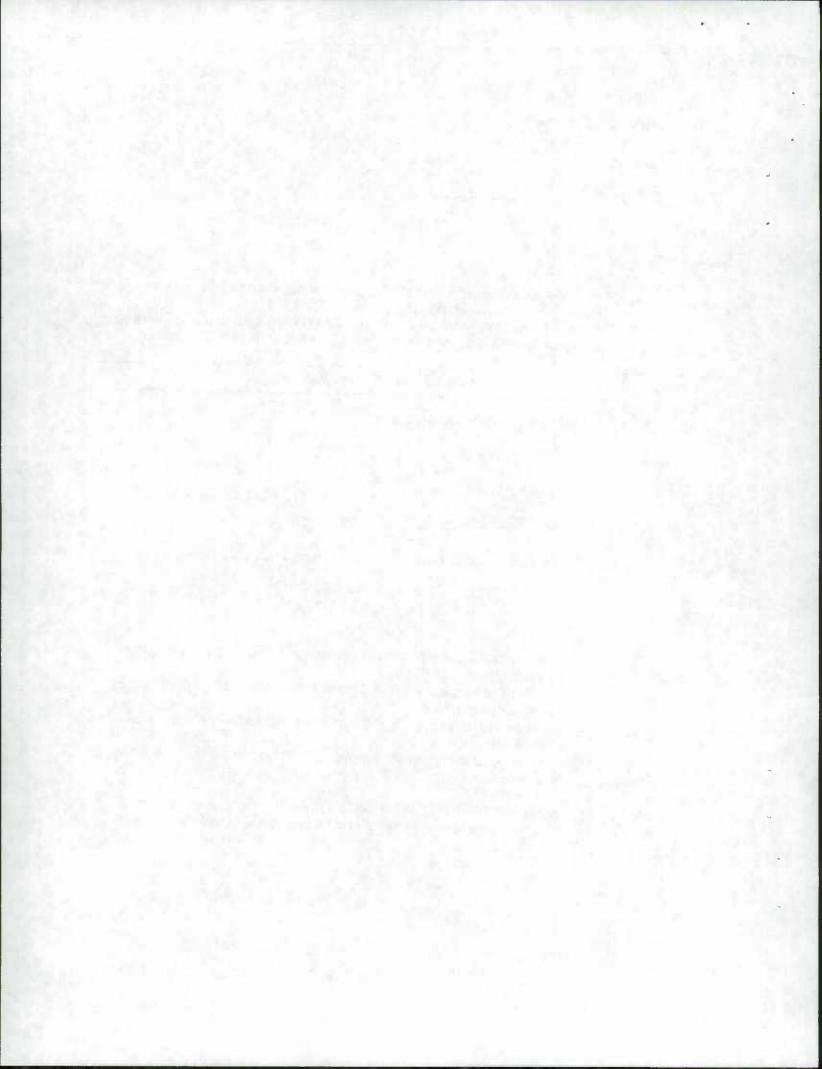
$$= 0.05 + 0.009 (61.4) = 0.602(e$$

$$L_{post} = (0.602(e)) (.30) (0.107) (8.16)$$

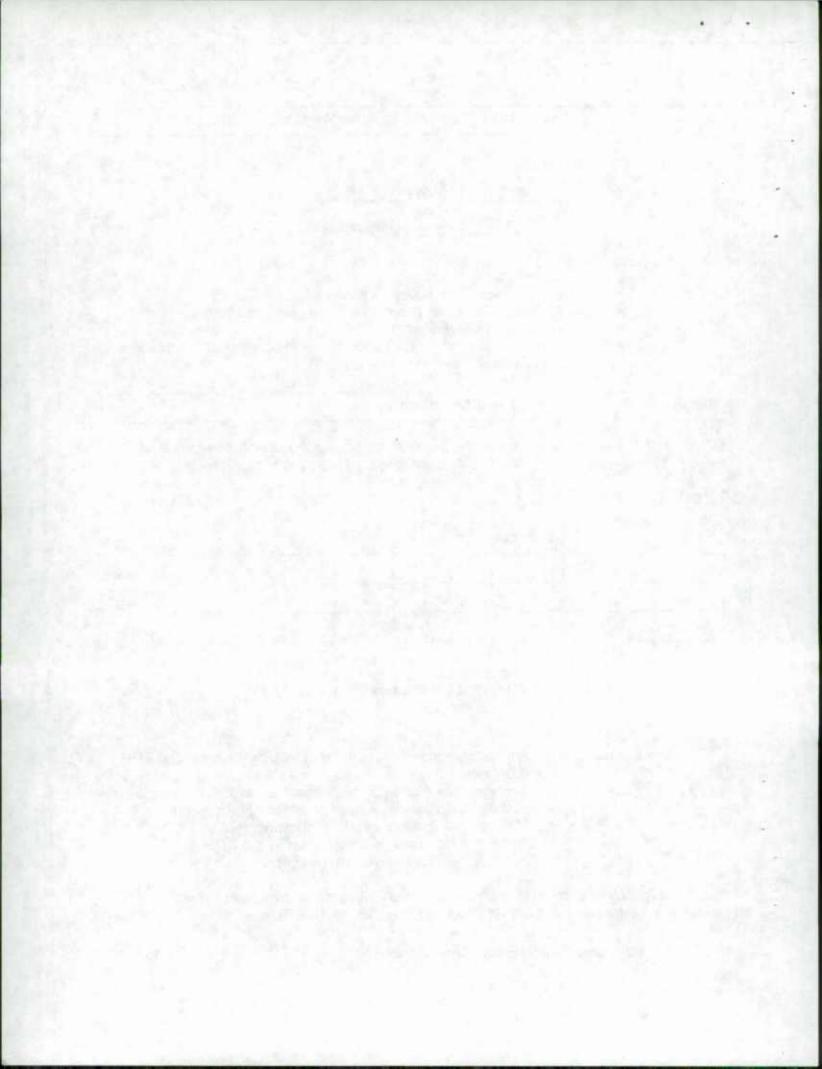
$$= 0.158 \text{ lbs/year of total phosphorus}$$

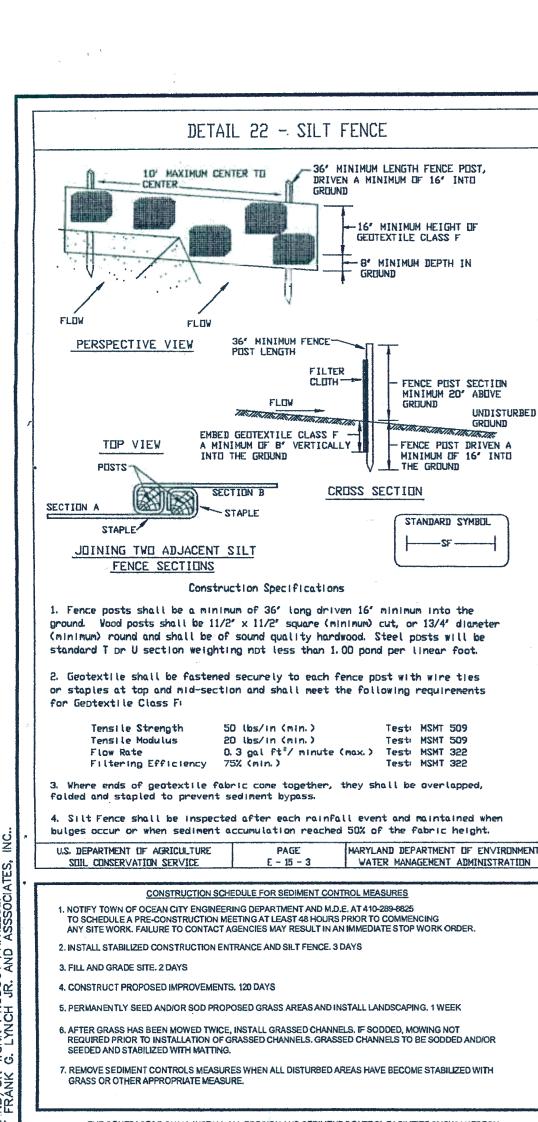
Where:

A = Area of the site within the Critical Area IDA (acres)
8.16 = Includes regional constants and unit conversion factors



Calculate the Pollutant Removal Requirement (RR) Step 4: RR L_{post} - (0.9) (L_{pre}) (0.158)-(0.9)(0.182) - ♦.00 S8. Ibs/year of total phosphorus Where: RR Pollutant removal requirement (lbs/year) Average annual load of total phosphorus exported from the post-Lpost development site (lbs/year) == Average annual load of total phosphorus exported from the site prior Lpre to development (lbs/year) Step 5: Identify Feasible BMP(s) Select BMP Options using the screening matrices provided in the Chapter 4 of the 2000 Maryland Stormwater Design Manual. Calculate the load removed for each option. BMP Type x (BMP_{RE}) x (% DA Served) = (Lpost) LR lbs/year lbs/year lbs/year X X lbs/year Load Removed (total) = lbs/year Pollutant Removal Requirement (from Step 4) = lbs/year Where: Load Removed = Annual total phosphorus load removed by the proposed BMP (lbs/year) Average annual load of total phosphorus exported from the Lpost post-development site prior to development (lbs/year) BMPRE = BMP removal efficiency for total phosphorus, Table 4.8 (%) % DA Served = Fraction of the drainage area served by the BMP (%) RR Pollutant removal requirement (lbs/year) If the Load Removed is equal to or greater than the Pollutant Removal Requirement computed in Step 4, then the on-site BMP complies with the 10% Rule. Has the RR (pollutant removal requirement) been met? Yes ☐ No





THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL FACILITIES SHOWN HEREON, AND THEY SHALL BE APPROVED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT OR THEIR. AUTHORIZED AGENTS PRIOR TO THE START OF ANY GRADING OPERATIONS OF CONSTRUCTION.

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY SITE CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND WITHIN FOURTEEN (14) DAYS ON ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. ALL STONE CHECK DAMS SHALL BE CHECKED AND CLEANED OF SILT AND MAINTAINED PERIODICALLY TO PREVENT THE STORM RUNOFF BREAKING THROUGH.

IF DURING ANY PERIOD OF CONSTRUCTION, AN EROSION PROBLEM ARISES, THE PROPER AND NECESSARY MEASURES WILL BE TAKEN TO CORRECT THE PROBLEM BY THE OWNERS AND/OR THE CONTRACTOR(S).

ALL DISTURBED AREAS NOT PAVED OR SURFACED SHALL BE REVEGETATED AND STABILIZED OLLOWING THE RECOMENDATIONS SHOWN ON THE DETAIL SHEET FOR TEMPORARY AND PERMANENT

FOREST CONSERVATION LAW STATEMENT
IN ACCORDANCE WITH SUBTITLE IV, SECTION 1-403(B)(9) OF THE NATURAL RESOURCES ARTICLE OF THE WORGESTER COUNTY CODE OF PUBLIC LOCAL LAWS, THIS SUBDIVISION IS EXEMPT FROM THE COUNTY'S FOREST CONSERVATION LAW SINCE THE ACTIVITY DOES NOT RESULT IN THE CUTTING, CLEARING, OR GRADING OF MORE THAT 40,000 SQUARE FEET OF FOREST; AND IS SUBJECT OF A

OWNER/DEVELOPER CERTIFICATION I CERTIFY THAT:

ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN, AND THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" AND FURTHER, AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY WORCESTER COUNTY SOIL CONSERVATION DISTRICT BOARD OF SUPERVISORS OR THEIR AUTHORIZED AGENTS.

ANY CLEARING, GRADING, CONSTRUCTION OR DEVELOPMENT, OR ALL OF THESE, WILL BE DONE PURSUANT TO THIS PLAN AND THAT RESPONSIBLE PERSONNEL. INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE CERTIFICATION OF TRAINING. AT THE DEPARTMENT APPROVED TRAINING PROGRAM (GREEN CARD CERTIFICATION) FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE

THE DEVELOPER WILL PROVIDE ONE COPY OF A RED LINE AS-BUILT DRAWING OF EACH FACILITY ALL PHASES OF STORMWATER MANAGEMENT CALCULATIONS, STRUCTURE DESIGN AND CONSTRUCTION WILL ADHERE TO CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR STORMWATER MANAGEMENT AND THE STORMWATER MANAGEMENT PLAN FOR THE SITE.

ALL INFORMATION SET FORTH IN THIS PLAN ACCURATELY CONVEYS THIS SITE'S CONDITIONS TO THE BEST OF MY KNOWLEDGE.

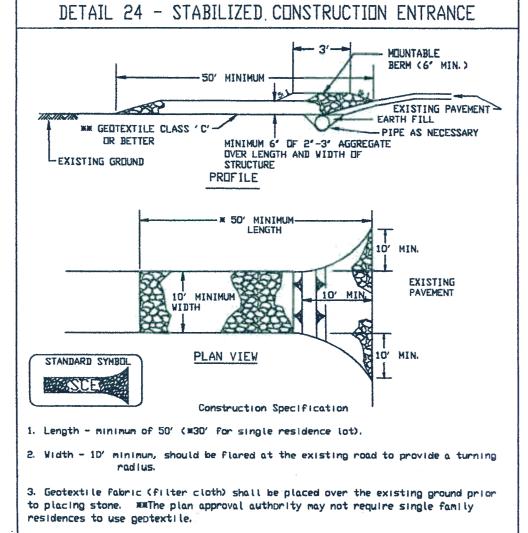
ALL STRUCTURAL DEVICES FOR STORMWATER MANAGEMENT WILL BE PROTECTED BY PROPER SOIL EROSION AND SEDIMENT CONTROL DEVICES UNTIL ALL CONTRIBUTING AREAS HAVE PASSED FINAL STABILIZATION INSPECTION. ON ALL SITES(EXCEPT INDIVIDUAL SINGLE FAMILY DWELLINGS):
UPON COMPLETION OF THE PROJECT, AN AS-CONSTRUCTED SURVEY, NOTICE OF CONSTRUCTION

COMPLETION (NOCC), AND LETTER OF CERTIFICATION MUST BE SUBMITTED TO THE DEPARTMENT OF PERMITTING AND REVIEW. ONCE REVIEW IS COMPLETE AND APPROVED, A CERTIFICATE OF

Freda N. Chasa SIGNATURE(S) OF OWNER/DEVELOPER ROBERT S. & FREDA N. & DAVID A. CHASE 7647 GREENDELL LANE HIGHLAND, MD 20777 PHONE: C/O CASPER SORENSEN 410-822-3407

CERTIFICATION "THE DEVELOPER'S PLAN TO CONTROL SILT AND EROSION IS ADEQUATE TO CONTAIN THE SILT AND EROSION ON THE PROPERTY COVERED BY THE PLAN. I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE WORCESTER COUNTY SOIL CONSERVATION DISTRICT PLAN SUBMITTAL
GUIDELINE AND THE CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SEDIMENT AND EROSION CONTROL. I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL. PLAN WITH THE OWNER/DEVELOPER.*

FRANK G. LYNCH JR. AND ASSOC., INC. 10535 RACETRACK ROAD BERLIN, MD. 21811 (41D)641-5773



4. Stone - crushed aggregate (2' to 3') or reclaimed or recycled concrete equivalent shall be placed at least 6' deep over the length and width of the

5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pip installed through the stabilized construction entrance shall be protected with a mountable bern with 5:1 slopes and a minimum of 6' of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6' minimum will be required.

6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance

MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE F - 17 - 3 CONSTRUCTION NOTES:

1. CONTRACTOR SHALL BE REQUIRED TO PROVIDE ALL MATERIALS AND APPURTENANCE NECESSARY FOR COMPLETE PROJECT CONSTRUCTION AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.

2. THE CONTRACTOR SHALL CONTACT MISS UTILITY FOR LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. (1-800-257-7777)

3. THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE SITE

CONTRACTOR'S NEGLECT SHALL BE REPAIRED BY TH CONTRACTOR AT HIS OWN EXPENSE.

4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR CONSTRUCTION PERMITS AND FEES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ONGOING INSPECTION AND ACCEPTANCE BY WORCESTER COUTY ROADS, WORCESTER COUNTY HEALTH DEPARTMENT AND, WORCESTER 7. PARKING LOT AREAS SHALL, AT A MINIMUM, BE SURFACED WITH GRAVEL. SEDIMENT AND EROSION CONTROL NOTES

(green card certification for the control of sediment and erosion before beginning the project. (Certification may be waived by the approval authority on any project involving four DR Fewer RESIDENTIAL UNITS) AND AS APPLICABLE PER COUNTY 3. THE DEVELOPER WILL ONE COPY OF A RED LINE AS BUILT DRAWING OF EACH FACILITY REQUIRING A STATE POND PERMIT.

3. 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 DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. 4. APPROVAL SHALL BE REQUESTED UPON FINAL STABILIZATION OF ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES BEFORE REMOVAL OF SEDIMENT CONTROLS.

5. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE THAT STABILIZED AREAS CONTINUOUSLY MEET THE APPROPRIATE REQUIREMENTS OF "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

 APPROVED PLANS REMAIN VALID FOR 2 YEARS FROM THE DATE OF APPROVAL EXCEPT SURFACE MINES AND LANDFILL PLANS WHICH REMAIN VALID FOR 5 YEARS FROM THE DATE OF APPROVAL UNLESS SPECIFICALLY EXTENDED OR RENEWED BY THE APPROVAL AUTHORITY. 7. SEDIMENT AND EROSION CONTROL DEVICES MUST BE INSPECTED AND MAINTAINED REGULARLY TO INSURE THAT THE INTENDED

PURPOSE IS ACCOMPLISHED.

8. ALL DISTURBED AREAS WHICH ARE NOT PAVED OF GRADED WILL BE SEEDED OR SODDED. 9. WHERE SEEDING IS REQUIRED, USE K-31 OR BETTER. ALL SLOPES OF 3:1 AND ALL AREAS IF DESIGNATED ON THE PLAN SHALL BE SEEDED.
D. ALL DISTURBED AREAS ARE TO BE PROTECTED DURING ALL PHASES

OF DEVELOPEMENT.

ALL SPOIL WILL BE REMOVED TO AN APPROVED SITE, SPOIL FROM EXCAVATION WILL BE REMOVED DAILY. CLEAN RUNOFF WATER WILL BE DIVERTED AROUND ANY TEMPORARY STOCKPILE AREAS.

 THE APPROVAL OF THIS PLAN FOR SEDIMENT AND EROSION CONTROL DOES NOT RELIEVE THE DEVELOPER/CONSULTANT FROM COMPLYING WITH ANY FEDERAL/ STATE/COUNTY/TOWN REQUIREMENTS APPERTAINING TO ENVIRONMENTAL ISSUES.

13. ANYTIME A SCIL EROSION OR SEDIMENT CONTROL PROBLEM OCCURS, PROMPT AND NECESSARY MEASURES WILL BE TAKEN BY THE DWNER AND/OR CONTRACTOR TO CORRECT THE PROBLEM.

PROJECT NOTES 1. LOT AREA: 4,696 S.F.±

2. BLDG ENVELOPE: 2,358 S.F.± 3. EX. ZONING: R-1 ZONING SETBACKS: FRONT: 20'

REAR: 15', SIDES: 5 4. FLOOD ZONE: A6 (BFE=6) PER FIRM NO. 245207 0003 F

DATED MARCH 4, 1986. 5. DISTURBED AREA: 4,696 S.F.± OR 0.107 ACRES ± PROPOSED FILL: 150 C.Y.±

7. DEED REF.: S.V.H. 3910/394 8. SITE SOILS ARE: MANMADE. 9. SITE IS CURRENTLY IMPROVED.

10. STORMWATER IS DIRECTED TO GRASS CHANNELS. 11. TAX MAP 118, PARCEL 42B

12. THERE ARE REPORTEDLY NO WETLANDS WITHIN THE LIMITS OF DISTURBANCE. 13. THIS SITE IS WITHIN THE ATLANTIC COASTAL BAYS CRITICAL AREA. 14. THIS SITE IS WITHIN WORCESTER COUNTY SUBWATERSHED #2130103-CAPE ISLE OF WIGHT DRAINAGE.

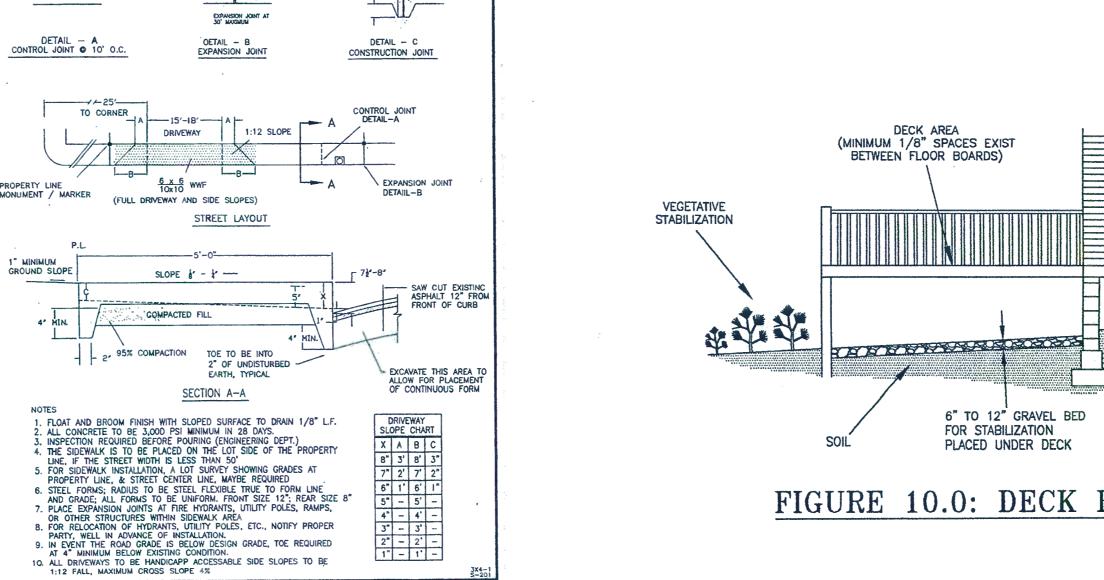
MIN. ACCURACY = $\pm 0.1^{\circ}$ - SF- DENOTES SILT FENCE AND LIMITS OF DISTURBANCE

DENOTES SUPER SILT FENCE ALONG BULKHEAD DENOTES PROPOSED ELEVATION (NGVD 1929 DATUM) 7.D DENOTES EXISTING SPOT ELEVATION (NGVD 1929 DATUM) DENOTES 2' WIDE GRASS CHANNEL (SEE DETAIL)

DENOTES DISTURBED AREA: 4,696 S.F.± OR 0.107 ACRES

DENOTES IRON ROD FOUND DENOTES CONC. MON. FOUND DENOTES POST CONSTRUCTION FLOW PATTERN

> LOT 4, BLOCK 34, SEC. 2-A, CAINE WOODS TOWN OF OCEAN CITY TENTH TAX DISTRICT, WORCESTER COUNTY, MARYLAND TAX MAP 118, PARCEL 42B



(SLOPES OF GRASSED CHANNEL SHALL BE GENTLE FOR MAINTENANCE)

PARABOLA SHAPED CHANNEL

GRASS CHANNEL SECTION (NO FALSE BERM REQUIRED) - NTS

NOTE: MINOR GRADING TO BE DONE TO MINIMIZE RUNOFF ONTO ADJACENT PROPERTIES AND

STORMWATER MANAGEMENT CALCULATIONS

(EXISTING IMP.) 3,346 S.F. - (PROPOSED IMP.) 2,864 S.F = 482 S.F.

STORMWATER MANAGEMENT TREATMENT PROVIDED

296 S.F. (OPEN) / 750 S.F. (TOTAL) = 39% OPEN SPACE IN CRITICAL AREA

NOTE: THE LIVING AREA FLOOR AND/OR GARAGE FLOOR ELEVATIONS AS SHOWN HEREON ARE RECOMMENDED MINIMUMS. THE ACTUAL

RESPONSIBILITY TO VERIFY THE BUILDING CODES, FEMA REGULATIONS, AND ANY OTHER APPLICABLE REGULATIONS AND/OR RESTRICTIONS ARE COMPLIED WITH. IT IS IMPORTANT TO NOTE THAT UTILITIES SERVICING THE STRUCTURE MAY OR MAY NOT REQUIRE A

NOTE: THIS PLAT REFLECTS THE DESCRIPTION OF THE LOT/PARCEL AS NOTED IN THE TITLE OF THIS PLAT, AS SHOWN ON THE RECORD PLAT AND DOES NOT VERIFY THE EXISTENCE OR NON-EXISTENCE OF RIGHT OF WAYS OR EASEMENTS PERTAINING TO THIS PROPERTY

2 X 73 L.F. GRASSED CHANNELS X 2' WIDE = 292 S.F.

1,239 S.F. (OPEN) / 4,696 S.F. (TOTAL) = 26% OPEN SPACE

CRITICAL AREA OPEN SPACE CALCULATIONS

ELEVATIONS OF THESE FLOORS ARE TO BE ESTABLISHED BY THE OWNER AND/OR GENERAL CONTRACTOR AS IT IS THEIR

OTHER THAN THOSE AS SHOWN ON SAID RECORD PLAT. NO TITLE SEARCH OR COVENANTS PROVIDED OR STIPULATED.

PER TOWN OF OCEAN CITY, IF THERE IS A 20% REDUCTION OF IMPERVIOUS SURFACE NO

EXAMPLE, IF THE REDUCTION OF IMPERVIOUS SURFACE IS 15% THEN 5% OF EXISTING

5.6% X (EXISTING IMP.) 3,346 S.F. = 187 S.F REQUIRED STORMWATER MANAGEMENT

STORMWATER MANAGEMENT IS REQUIRED. IF THE REDUCTION OF IMPERVIOUS SURFACE IS LESS

THAN 20% THEN THE REMAINING IMPERVIOUS SURFACE MUST BE TREATED, UP TO 20%. FOR

EXISTING IMPERVIOUS: 3,346 S.F.±

482 S.F. / 3,346 S.F. = 14.4%

20% - 14.4% = 5.6%

CHANGE IN THE RECOMMENDED FLOOR ELEVATIONS AS SHOWN HEREON.

PROPOSED IMPERVIOUS: 2,864 S.F.±

OPEN SPACE CALCULATIONS

MINIMUM OF 15% REQUIRED

MINIMUM OF 15% REQUIRED

IMPERVIOUS SURFACE MUST BE TREATED.

OCEAN CITY STANDARDS

DATE: 3-9-96 REVISION 8-2-06: 4-18-07

SIDEWALKS

5' WIDE CITY SIDEWALK

MATCH EXISTING GROUND ELEVATION

S-2.01

DOWN SPOUTS TO BE DIRECTED TO GRASS CHANNELS.

COV. PORCH/DECK/STEPS = 129 S.F.±

EXISTING

CRITICAL AREA NOTES

DWELLING = 1,218 S.F.±

DECK/STEPS = 28 S.F.±

REAR DECK = $182 \text{ S.F.} \pm$

WOOD WALK = 158 S.F.±

3. IMPERVIOUS %: 71.3 % ±

100' BUFFER: 3,346 S.F.±

4. IMPERVIOUS AREA WITHIN

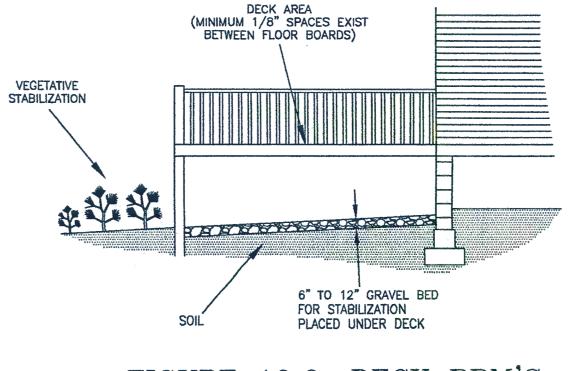
5. SITE IS IMPROVED.

PAVED DRIVE = 1,631 S.F.±

TOTAL IMPERVIOUS = 3,346 S.F.±

DESIGNATION: IDA

2. IMPERVIOUS AREA:



floor of dwelling EL. = 10.3

PROPOSED

CRITICAL AREA NOTES:

DWELLING = 2,188 S.F. \pm

COV. ENTRIES = 157 S.F.±

CONC. WALKS = $222 \text{ S.F.}\pm$

PERVIOUS PAVER DRIVE = 297 S.F.±

REAR DECK (PERVIOUS) = 0 S.F.±

TOTAL IMPERVIOUS = 2864 S.F.±

(424 S.F. - 30% VOID RATIO = 297 S.F.)

DESIGNATION: IDA

3. IMPERVIOUS %: 61.0 % ±

4. IMPERVIOUS AREA WITHIN

5. SITE IS IMPROVED.

100' BUFFER: 2,864 S.F.±

2. IMPERVIOUS AREA:

FIGURE 10.0: DECK BPM'S

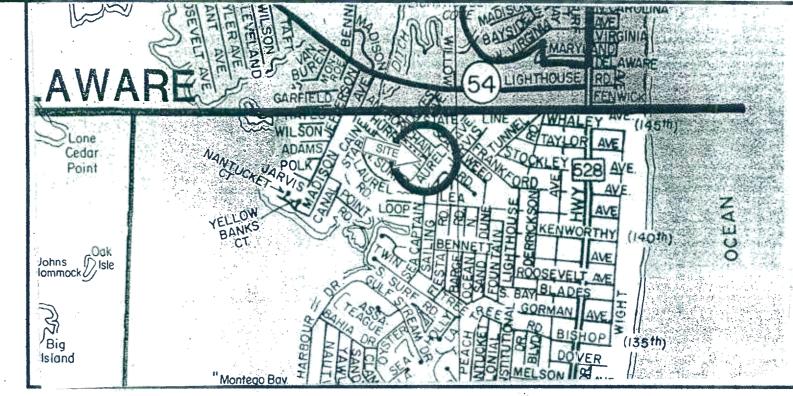


TABLE 24 MAINTENANCE FERTILIZATIO FOR PERMANENT SEEDINGS **USE SOIL TEST RESULTS OR RATES SHOWN BELOW**

SEEDLING MIXTURE	TYPE	Lb / AC	Lb / 1000 Sf	TIME	MOWING
TALL FESCUE MAKES UP 70% OR MORE OF COVER	10-10-10 OR 30-10-10	500 400	11.5 9.2	FALL	NOT CLOSER THAN 3" IF OCCASIONAL MOWING IS DESIRED.
CROWNVETCH SERICEA LESPEDEZA BIRDSFOOT TREFOIL	0-20-0	400	9.2	SPRING , THE YEAR FOLLOWING ESTABLISHMENT AND EVERY 4-5 YEARS THERE AFTER	DO NOT MOW CROWNVETCH
FAIRLY UNIFORM STAND OF TALL FESCUE AND SERICEA LESPEDEZA, OR BIRDSFOOT TREFOIL	5-10-10	500	11.5	ESTABLISHMENT AND EVERY 4-5 YEARS	NOT REQUIRED, NO CLOSER TH. 4" IN THE FALL AFTER SEED HAS MATURED.
WEEPING LOVE GRASS & SERICEA LESPEDEZA FAIRLY UNIFORM PLANT () ISTRIBUTION	5-10-10	500	11.5	SPRING , THE YEAR FOLLOWING ESTABLISHMENT AND EVERY 3-4 YEARS THERE AFTER	NOT REQUIRED, NO CLOSER TH 4° IN THE FALL AFTER SEED HAS MATURED.
RED & CHEWINGS FESCUE, KENTUCKY BLUEGRASS, HARD FESCUE MIXTURES	20-10-10	250 100	5.8 2.3	SEPTEMBER, 30 DAYS LATER. DECEMBER, MAY 20, JUNE 30, IF NEEDED.	MOW NO CLOSER THAN 2" FOR RED FESCUE AND K. BLUEGRAS 3" FOR FESCUE

TABLE 25 PERMENANT SEEDING FOR LOW MAINTENANCE AREAS

	SEED MIX (USE CERTIFIED MATERIAL IF AVAILABLE)	PLANTING	•	SITE	USDA HARDI-	F	RECOL	AENDE	D PLA	ANTIN	G DAT	ES	VOTES
MEX	(OSE CENTIFIED MATERIAL IF AVAILABLE)	LBS / AC	LBS / 1000 SQ FT		NESS ZONES	3/1- 5/15	3/15- 6/1	5/16- 8/14	6/2- 7/31	8/1- 10/1	8/1- 10/15	8/18- 11/15	NOTES
	TALL FESCUE (75%)	150	3.4	MOIST TO	5b		Х			Х			Α
	CANADA BLUEGRASS (10%) KENTUCKY BLUEGRASS (10%)			DRY	6a	-	Х			Х	×	_	
	REDTOP (5%)				7a 7b	X				-	<u> ^</u>	X	
					50	X					-	X	
-	KENTUCKY BLUEGRASS (50%)	150	3.4	MOIST TO	50	 	х			×			
2.	CREEPING RED FESCUE OR A HARD FESCUE (40%)			MODERATELY DRY TO DRY	6a	Г	х			х			В
	REDTOP (10%)				6b	х					х		
	TALL FESCUE (85%)			MOIST TO	50		Х			Х			С
3.	PERENNIALRYEGRASS (10%) KENTUCKY BLUEGRASS (5%)	125 15	2.9 .34 .23	DRY	6a		х			х			-
		10			6B	х			- 1		х		
				-	7a	х				-		х	
		l			78	х						х	
	RED FESCUE OR	60	.92	MOIST TO	5b		. X		2 -	×			D
4.	CHEWINGS FESCUE (80%) PERENNIAL RYEGRASS (20%)	60 15	.92 .34	DRY	6a		Х			х			
					6b	×					Х		
5.	TALL FESCUÉ (85%) OR,				5b		Х			х			E
	PERENNIALRYÈGRASS (50%) PLUS CROWNVETCH OR	110	2.5 .46	MOIST TO DRY	6a		х			×	<u> </u>	<u> </u>	
	FLATPEA	20	.46 .46		6b	х					х		
					7a	х					_	Х	1
					7b	×					<u> </u>	х	
5.	TALL FESCUE (85%) OR,	4	.09	DRY TO	6a	X	_	Х	_	_	_		F
	PERENNIALRYEGRASS (50%) PLUS CROWNVETCH OR	20	.46	VERY DRY	7a	×	_	Х	_	_	'	_	-
	FLATPEA		1		7b	×		X					

TABLE 25 PERMENANT SEEDING FOR LOW MAINTENANCE AREAS (CONT'D)

Sediment Control Plan Approval Worcester Soll Conservation District Snow Hill, MD 21863

Anytime an erosion or sediment problem occurs the prompt and necessary meas will be taken to correct it by the owner and/or contractor. An approved copy of the Sediment Control Plan will be on site at all times.

MIX.	SEED MIX USE CERTIFIED MATERIAL IF AVAILABLE)	PLANTING		SITE	USDA HARDI-	F	RECO	/ENDE	D PLA	ANTIN	G DATI	ES	NOTES
-	USE CERTIFIED MATERIAL IF AVAILABLE)	LBS / AC	LBS / 1000 SQ FT		NESS ZONES	3/1- 5/15		5/16- 8/14			8/1- 10/15	8/18-	4
	*				5b		Х	-	х	X			G
7.	TALL FESCUE (83%) WEEPING LOVEGRASS (2%) PLUS	110 3	2.5 .07	DRY TO	6a		х		х	Х			
	SERECIA LESPEDEZA (15%)	20	20 .46 VERY DRY	6b	Х		Х			Х			
					7a	Х		Х				Х	
					7b	Х		Х				Х	
			1 1		Бb		×			X			н
8.	REDTOP (6%) PLUS	40	.07	WET TO MODERATELY	68	-	×			х	-		
	BIRDSFOOT TREEFOIL (19%)	10	26	MODERA (ELI	6b	x					х		
		-			7a	×						×	
					7b	×	_		-			*	-
_		-			5b	10	T T	-	-	x	-	-	
9.	TALL FESSIE / 909/ \	125	2.9		30	-	Х		├		-	-	1
9.	TALL FESCUE (86%) J'OA TRIVIALIS (7%)	10	10 .23	WET TO MODERATELY	6a	_	Х		_	X	_	<u> </u>	
	BIRDSFOOT TREEFOIL (7%)	10	.23	DRY	6b	Х	<u> </u>				Х		1 1
5					51b	Т	х			Х			J
10.	TALL FESCUE (80%) HARD FESCUE (20%)	120	3.4	WETTO	6a	Т	х			х			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			DRY	6b	х			Т		х		
					7a	х						х	1
					7b	×		1	\top			×	1 1
-		-	-	 	5b	+	X	t-	T	1	T		
10	HARD FESCUE (100%)	.75	1.7	MOIST TO		+-	-	-	-	X	+-	+-	к
				DRY	6a	+	X	┼	+-	 ^			
	1			6b	×	-		ـ	-	X	-	-	
					7a	Х						х	

TABLE 26 TEMPORARY SEEDING RATES, DEPTHS AND DATES

SPECIES	MINIMUM SEEDING RATES		PLANTING										
			DEPTH	7a AND 7b			6b			6a AND 5o			
	PER ACRE	LBS/1000 SQ.FT.	INCHES	2/1- 4/30	5/1- 8/14	8/15- 11/30	3/1- 4/30	5/1- 8/14	8/15- 11/15	3/15- 5/31	6/1- 7/31	8/1- 10/31	
CHOOSE ONE: HARLEY OATS RYE	2.5 BU. (122 LBS) 3 BU. (96 LBS) 2.5 BU. (140 LBS)	2.80 2.21 3.22	1-2 1-2 1-2	X X X		BY . 10/15 X	X X X		BY 10/15 X	X X X		BY 10/1 X	
BARLEY OR RYE PLUS FOXTAIL MILLET	150 LBS	3.45	1	×	×	10/15 X	x x	X X	10/15 X	×	×	10/1 X	
WEEPING LOVEGRASS	4 LBS	.09	1/4 - 1/2		х			х			×		
ANNUAL RYEGRASS	50 LBS	1.15	1/4 - 1/2	х		11/1	х		11/1	×		8/15	
MILLET	50 LB\$	1.15	1/2		х			X			х		

PROFESSIONAL SEAL

Frank G. Lynch, Jr. & Associates, Inc.

> SURVEYING · LAND PLANNING 10535 RACETRACK ROAD · BERLIN, MARYLAND 21811 (410) 641-5353 · 641-5773

		(410) 041-0	000 031 0116				
DESIGNED BY	B. OVERHOLT	SURVEYED BY	CM/MT	FILE NO.:	10460	-07	
DRAWN BY	B. OVERHOLT	DATE	11-7-07	SHEET	1	OF	2
CHECKED BY	FRANK G. LYNCH	SCALE	AS SHOWN	SIILLI	ł	01	

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DATE CHKD REVISION

2-25-08

PROJECT

PROPOSED SITE PLAN, STORMWATER MANAGEMENT, SOIL EROSION AND SEDIMENT CONTROL PLAN

