B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

o stabilize disturbed soils with permanent vegetation. Purpose

o use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils. Conditions Where Practice Applies xposed soils where ground cover is needed for 6 months or more.

Criteria

. Seed Mixtures

- I. General Use a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.
 - b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting. c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.
 - d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.

2. Turfgrass Mixtures a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial

- sites which will receive a medium to high level of maintenance. b. Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the
- Permanent Seeding Summary. The summary is to be placed on the plan. I. Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight. II. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive
- management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
- III. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes; Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended.
- IV. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes; Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 11/2 to 3 pounds per 1000 square feet.

Notes Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendations for Maryland" Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line c. Ideal Times of Seeding for Turf Grass Mixtures Western MD: March 15 to June 1,

- August | to October | (Hardiness Zones: 5b, 6a) Central MD: March | to May | 5, August 15 to October 15 (Hardiness Zone: 6b) Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardiness Zones: 7a, 7b) d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4
- inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 11/2 inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty. e. It soil moisture is deficient, supply new seedings with adequate water for plant growth
- (1/2 to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

F	IARDINESS ZONE (from figure B.3 SEED MIXTURE (from table B.1	3):):	7a		FERTILIZER	R RATE (10)-20-20)	
NO.	SPECIES	APPLICATION RATE (Ib/ac.)	SEEDING DATES	SEEDING DEPTHS	N	P ₂ O	K ₂ 0	LIME RATE
	CREEPING RED FESCUE KENTUCKY BLUEGRASS	60/15	2/15 - 4/30 AND 8/15 -10/31	1/4 - 1/2 m.	45 pounds per acre (1.0 lb/ 1000 sf)	90 lb/ac (2 lb/ l 000 sf)	90 lb/ac (2 lb/ l 000 sf)	2 tons/ac (90 lb/ 1 000 sf)
	TALL FESCUE PERENNIAL RYEGRASS WHITE CLOVER	40/25/5	2/15 - 4/30 AND 8/15 -10/31	1/2"	45 pounds per acre (1.0 lb/ 1000 sf)	90 lb/ac (2 lb/ l 000 sf)	90 lb/ac (2 lb/ l 000 sf)	2 tons/ac (90 lb/ 1 000 sf)

"I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."

William Verdecchia Verdecchia Costa is 12 0000 - 04 00 Owner's/ Developer's Signature Moltrey! Verdecchiol

inted Name & Titl Design Certification:

ers/Developer Certification:

"I hereby certify that this plan has been designed in accordance with current Maryland erosion and sediment control laws, regulations, and standards, that it represents practical and workable plan based on my personal knowledge of the site, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.'

Mathi 8<u>/15/20</u>23 Designer's Signature MATTHEW SICHEL

Printed Name Howard SCD Signature Block:

- B. Sod: To provide quick cover on disturbed areas (2:1 grade or flatter). I. General Specifications
 - a. Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and inspector.
 - b. Sod must be machine cut at a uniform soil thickness of 3/4 inch, plus or minus 1/4 inch, at the time of cutting. Measurement for thickness must exclude top growth and thatch. Broken pads and torn or uneven ends will not be acceptable. c. Standard size sections of sod must be strong enough to support their own weight and
 - retain their size and shape when suspended vertically with a firm grasp on the upper 10percent of the section. d. Sod must not be harvested or transplanted when moisture content (excessively dry or wet)
 - may adversely affect its survival.
 - e. Sod must be harvested, delivered, and installed within a period of 36 hours. Sod not transplanted within this period must be approved by an agronomist or soil scientist prior to its installation. 2. Sod Installation
 - a. During periods of excessively high temperature or in areas having dry subsoil, lightly
 - irrigate the subsoil immediately prior to laying the sod. b. Lay the first row of sod in a straight line with subsequent rows placed parallel to it and
 - tightly wedged against each other. Stagger lateral joints to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots.
 - c. Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, peg or otherwise secure the sod to prevent slippage on slopes. Ensure solid contact exists between sod roots and the underlying soil surface.
 - d. Water the sod immediately following rolling and tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. Complete the operations of laying, tamping and irrigating for any piece of sod within eight hours.
 - 3. Sod Maintenance a. In the absence of adequate rainfall, water daily during the first week or as often and sufficiently as necessary to maintain moist soil to a depth of 4 inches. Water sod during the heat of the day to prevent wilting.
 - b. After the first week, sod watering is required as necessary to maintain adequate moisture
 - c. Do not mow until the sod is firmly rooted. No more than % of the grass leaf must be removed by the initial cutting or subsequent cuttings. Maintain a grass height of at least 3 inches unless otherwise specified.

- 1. A pre-construction meeting must occur with the Howard County Department of Public Works, Construction the field. A minimum of 48 hour notice to CID must be given at the following stages: a. Prior to the start of earth disturbance,
- any other earth disturbance or grading,
- Prior to the start of another phase of construction or opening of another grading unit, Prior to the removal or modification of sediment control practices.
- 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 SEDIMENT CONTROL, and revisions thereto.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within
- concentrated flow, steep slope, and highly erodible areas shall receive soil stabilization matting (Sec.
- B-4-6).
- permission for their removal has been obtained from the CID. 6. Site Analysis:

3		
Total Area of Site:	0.99	A
Area Disturbed:	0.67	A
Area to be roofed or paved:	0.124	A
Area to be vegetatively stabilized:	0.542	A
Total Cut:	458	C
Total Fill:	587	C

- Offsite waste/borrow area location: SITE WITH ACTIVE GRADING PERMIT 7. Any sediment control practice which is disturbed by grading activity for placement of utilities must be
- repaired on the same day of disturbance. contractor, made available upon request, is part of every inspection and should include:
- Inspection date
- Inspection type (routine, pre-storm event, during rain event) 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.q., 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 Activities (NPDES, MDE).
- back-filled and stabilized by the end of each workday, whichever is shorter.
- the HSCD prior to proceeding with construction. Minor revisions may allowed by the CID per the list of HSCD-approved field changes.
- II. Disturbance shall not occur outside the L.O.D. A project is to be sequenced so that grading activities been stabilized and approved by the CID. Unless otherwise specified and approved by the HSCD, no more than 30 acres cumulatively may be disturbed at a given time.
- sediment basin or other approved washout structure. 13. Topsoil shall be stockpiled and preserved on-site for redistribution onto final grade.
- 14. All Silt Fence and Super Silt Fence shall be placed on-the-contour, or be imbricated at 25' maximum intervals, with lower ends curled uphill by 2' in elevation.
- Use I and IP March I June 15
- Use III and IIIP October 1 April 30 Use IV March 1 - May 31
- SEDIMENT CONTROL, and associated permits shall be on-site and available when the site is active.

MATTHEW SICHEL NO. 1 28035		
MATHEW SICHEL MD Registration No. 20935 Inted Name P.E., R.L.S., or R.L.A. (circle one)	APPROVED: DEPARTMENT OF PLANNING A	ND ZONING 9/13/2023
SCD Signature Block:	Chief, Development Engineering Division	Date
This plan is approved for soil erosion and sediment	h	9/14/2023
Docusigned by: Olexander Bratchie 9/13/2023	Chief, Division of Land Development 22B49A Docusigned by:	Date 9/14/2023
Howard Soil Conservation District Date	Director	Date

- - other disturbed areas on the project site except for those areas under active grading.

HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

Inspection Division (CID), 410-313-1855 after the future LOD and protected areas are marked clearly in

b. Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with

Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made. Other related state and federal permits shall be referenced, to ensure coordination and to

be in conformance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND

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

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 SEDIMENT 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 with mulch alone can only be applied between the fall and spring seeding dates if the ground is frozen. Incremental stabilization (Sec. B-4-1) specifications shall be enforced in areas with > 15' of cut and/or fill. Stockpiles (Sec. B-4-8) in excess of 20 ft. must be benched with stable outlet. All

All sediment control structures are to remain in place, and are to be maintained in operative condition until

Acres Acres

Acres Acres

Cu. Yds.

Cu. Yds.

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

Other inspection items as required by the General Permit for Stormwater Associated with Construction

Trenches for the construction of utilities is limited to three pipe lengths or that which can and shall be 10. Any major changes or revisions to the plan or sequence of construction must be reviewed and approved by

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

12. Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a

15. Stream channels must not be disturbed during the following restricted time periods (inclusive):

16. A copy of this plan, the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 26838 EXPIRATION DATE: 01/18/2024 EMAIL: ERIC.KOHL@KCI.COM

B-4-8 STANDARDS AND SPECIFICATIONS

FOR **STOCKPILE AREA**

Definition

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

Purpose

To provide a designated location for the temporary storage of soil that controls the potential for erosion,

Conditions Where Practice Applies

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

Criteria

- 1. 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 stockpile 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.
- 3. Runoff from the stockpile area must drain to a suitable sediment control practice.
- 4. Access the stockpile area from the upgrade side.

sedimentation, and changes to drainage patterns.

- 5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale 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 erosion/sediment control practice must be used to intercept the discharge
- 7. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.
- 8. 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.

Maintenance

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 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.

SEQUENCE OF CONSTRUCTION:

- I. NOTIFY MISS UTILITY AT I-800-257-7777 AT LEAST FIVE (5) DAYS PRIOR TO STARTING ANY WORK. (7 DAYS)
- 2. CLEAR AND GRUB FOR SEDIMENT AND EROSION CONTROL MEASURES OR DEVICES ONLY. (2 DAYS)
- 3. INSTALL PERIMETER SEDIMENT AND EROSION CONTROL MEASURES AND DEVICES, INCLUDING STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM, SILF FENCE. SUPER SILT FENCE. (2 DAYS)
- 4. WITH APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR CLEAR AND GRUB FOR THE FOUNDATION OF THE HOUSE. (2 DAYS)
- 5. EXCAVATE FOR FOUNDATION OF THE HOUSE AND CONSTRUCT FOUNDATION. (10 DAYS)
- 6. ROUGH GRADE DRIVEWAY AND LOT, PLACE STONE BASE FOR DRIVEWAY. (3 DAYS)
- 7. CONSTRUCT HOUSE. (50 DAYS)
- 8. CONNECT WATER AND SEWER FROM HOUSE CONNECTIONS. (3 DAYS)
- 9. INSTALL MICRO-BIORETENTION SYSTEM. (5 DAYS)
- I.O. UPON COMPLETION OF HOUSE, FINE GRADE AND PERMANENTLY STABILIZE REMAINING AREAS PER SEEDING SPECIFICATIONS AND PAVE DRIVEWAY. DRIVEWAY MUST BE PAVED TO THE COUNTY RIGHT-OF-WAY. (2 DAYS)
- I I. UPON COMPLETION OF WORK AND STABILIZATION OF SITE, INCLUDING ESTABLISHED VEGETATION AND WITH APPROVAL OF HOWARD COUNTY DEPARTMENT OF PERMITS, APPROVAL AND INSPECTIONS, SEDIMENT CONTROL AND THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL MEASURES SUCH AS SILT FENCE AND SUPER SILT FENCE. STABILIZE THOSE AREAS DISTURBED BY THE REMOVAL OF THESE MEASURES. (2 DAYS)
- I 2. COMPLETE AS-BUILT SURVEY OF THE MICRO-BIORETENTION AND SUBMIT AS-BUILT DRAWINGS TO HOWARD COUNTY. (10 DAYS)

	OF MARL		Engineers			REVISIONS
	SCOTT A A		PLANNERS	NO.	DATE	DESCR
T :	o a la tere		Scientists			
			Construction Managers			
			936 RIDGEBROOK ROAD			
	1 No. 26838 CIT		Sparks, Maryland 21152			
	STONAL STONAL STONAL		TELEPHONE: (410) 316-7800			
	(08/21/202	^b IECHNOLOGIES	0101-010-010			









	DATE	WILLIAM & MAITREYI VERDECCHIA	DRAWING NO.
BY	8/14/2023	SITE DEVELOPMENT PLAN DETAILS	
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		ZONING: R-20 TAX MAP: 17 GRID: 20 PARCEL: 0174 ELECTION DIST: 9A	271000704.00

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PROFESSIONAL CERTIFICATION. I HEREBY
CERTIFY THAT THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND TH
I AM A DULY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STAT
OF MARYLAND, LICENSE NO. 26838
EXPIRATION DATE: 01/18/2024
EMAIL: ERIC.KOHL@KCI.COM

PLANNERS
Scientists
Construction Managers
936 Ridgebrook Road Sparks, Maryland 21152 Telephone: (410) 316-7800 Fax: (410) 316-7818

			REVISIONS
	NO.	DATE	DESCRIPTION
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BY	8/14/2023	MICRO-BIORETENTION DETAILS	
	SCALE	MICKO DIOREITENTION DETAILO	7hoPl 1
	1 =40	THE BETTY L. JONES PROPERTY SUBDIVISION	
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	DRAWN BY	ELLICOTT CITY MD 21042	KCI JOB NUMBER
	JDL	ZONING: R-20 TAX MAP: 17 GRID: 20 PARCEL: 0174 ELECTION DIST: 9A	2/1803/54.96

B-4 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

Using vegetation as cover to protect exposed soil from erosion.

To promote the establishment of vegetation on exposed soil.

Conditions Where Practice Applies On all disturbed areas not stabilized by other methods. This specification is divided into sections on incremental stabilization; soil preparation, soil amendments and topsoiling; seeding and mulching; temporary stabilization; and permanent stabilization.

Effects on Water Quality and Quantity Stabilization practices are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and runoff to downstream areas.

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Over time, vegetation will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth.

Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone.

Sediment control practices must remain in place during grading, seedbed preparation, seeding, mulching, and vegetative establishment.

Adequate Vegetative Establishment Inspect seeded areas for vegetative establishment and make necessary repairs, replacements, and reseedings within the planting season

I. Adequate vegetative stabilization requires 95 percent groundcover.

- 2. If an area has less than 40 percent groundcover, restabilize following the original recommendations for lime, fertilizer, seedbed preparation, and seeding.
- 3. If an area has between 40 and 94 percent groundcover, over-seed and fertilize using half of the rates originally specified.
- 4. Maintenance fertilizer rates for permanent seeding are shown in Table B.G.

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

To stabilize disturbed soils with vegetation for up to 6 months

Purpose

To use fast growing vegetation that provides cover on disturbed soils. Conditions Where Practice Applies

Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

- 1. Select one or more of the species or seed mixtures listed in Table B. I for the appropriate Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B. I plus fertilizer and lime rates must be put on the plan.
- 2. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding.
- 3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4-3.A. I.b and maintain until the next seeding season.

	HARDINESS ZONE (from figure B. SEED MIXTURE (from table B.	.3):):	7a			
NO.	SPECIES	APPLICATION RATE (Ib/ac.)	SEEDING DATES	SEEDING DEPTHS	FERTILIZER RATE (10-20-20)	LIME RATE
	FOXTAIL MILLET (Setaria italica)	30 LBS.	5/1 - 8/14	1/2"		
	ANNUAL RYEGRASS (Lolium perenne ssp. multiflorum)	40 LBS.	2/15 - 4/30 AND 8/15 - 11/30	1/2"	436 16/ac (10 16/ 1000 sf)	2 tons/ac (90 lb/ 1 000 sf)

NOTE:

I. SEEDING RATES FOR THE WARM SEASON GRASSES ARE IN POUNDS OF PURE LIVE SEED (PLS). ACTUAL PLANTING RATES SHALL BE ADJUSTED TO REFLECT PERCENT SEED GERMINATION AND PURITY, AS TESTED, ADJUSTMENTS ARE USUALLY NOT NEEDED FOR THE COOL SEASON GRASSES. SEEDING RATES LISTED ABOVE ARE FOR TEMPORARY SEEDINGS, WHEN PLANTED ALONE. WHEN PLANTED AS A NURSE CROP WITH PERMANENT SEED MIXES DO NOT EXCEED MORE THAN 5% (BY WEIGHT) OF THE OVERALL PERMANENT SEEDING MIX.

> MD Registration No. 28935 P.E., R.L.S., or R.L.A. (circle one

Date

"I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."

William Verdecchia Verdecchia Costa is 12 0000 - 04 00 Owner's/ Developer's Signature Moltrey Verderchio

nted Name & Titl

Design Certification:

ners/Developer Certification:

"I hereby certify that this plan has been designed in accordance with current Maryland erosion and sediment control laws, regulations, and standards, that it represents practical and workable plan based on my personal knowledge of the site, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.' Mathi 8<u>/15/20</u>23

Designer's Signature MATTHEW SICHEL Printed Name Howard SCD Signature Block:

Howard Soil Conservation District

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District. Olexander Bratchie 9/13/2023

APPROVED: DEPA	PROVED: DEPARTIMENT OF PLANNING AND ZONING					
	(HAD Edmondson	9/13/2023				
Chief, Development Engi	ກອອງສາຍ (141499	Date				
	M	9/14/2023				
Chief, Division of Land D	evelopeusymed by: Innda Eisenberg	Date 9/14/2023				
Director	4220B635863942E	Date				

B-4-1 STANDARDS AND SPECIFICATIONS FOR

INCREMENTAL STABILIZATION

Establishment of vegetative cover on cut and fill slopes.

To provide timely vegetative cover on cut and fill slopes as work progresses.

A. Incremental Stabilization - Cut Slopes

- and apply seed and mulch on all cut slopes as the work progresses.
- 2. Construction sequence example (Refer to Figure B. I):
 - the excavation
 - b. Perform Phase I excavation, prepare seedbed, and stabilize.
 - necessar
- areas as necessary.

Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization. Figure B.





- B. Incremental Stabilization Fill Slopes
 - I. Construct and stabilize fill slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all slopes as the work progresses. 2. Stabilize slopes immediately when the vertical height of a lift reaches 15 feet, or when the grading
 - operation ceases as prescribed in the plans. 3. At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept
 - surface runoff and convey it down the slope in a non-erosive manner.
 - 4. Construction sequence example (Refer to Figure B.2): a. Construct and stabilize all temporary swales or dikes that will be used to divert runoff around
 - the fill. Construct silt fence on low side of fill unless other methods shown on the plans address this area. b. At the end of each day, install temporary water conveyance practice(s), as necessary, to

 - c. Place Phase 1 fill, prepare seedbed, and stabilize.
 - d. Place Phase 2 fill, prepare seedbed, and stabilize. necessary.

interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization

Figure B.



Conditions Where Practice Applies Any cut or fill slope greater than 15 feet in height. This practice also applies to stockpiles. Criteria

1. Excavate and stabilize cut slopes in increments not to exceed 15 feet in height. Prepare seedbed

a. Construct and stabilize all temporary swales or dikes that will be used to convey runoff around

c. Perform Phase 2 excavation, prepare seedbed, and stabilize. Overseed Phase I areas as

d. Perform final phase excavation, prepare seedbed, and stabilize. Overseed previously seeded

EXISTING GROUND

-PHASE 1 EXCAVATION

-PHASE 2 EXCAVATION

PHASE 3 EXCAVATION

Figure B. I : Incremental Stabilization – Cut

- intercept surface runoff and convey it down the slope in a non-erosive manner.
- e. Place final phase fill, prepare seedbed, and stabilize. Overseed previously seeded areas as

Note: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any

-TEMPORAY DIKE/SWALE TO BE PLACED AT THE END OF EACH WORK DAY TO BE USED UNTIL SLOPE IS COMPLETELY STABILIZED 15 FT MAX SILT FENCE /

EXISTING GROUND Figure B.2: Incremental Stabilization – Fill

B-4-2 STANDARDS AND SPECIFICATIONS

FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

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

Purpose To provide a suitable soil medium for vegetative growth.

onditions Where Practice Applies Where vegetative stabilization is to be established.

Criteria

A. Soil Preparation I. Temporary Stabilization

- a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultura construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipmen soil is loosened, it must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 to be tracked with ridges running parallel to the contour of the slope.
- b. Apply fertilizer and lime as prescribed on the plans. c. 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 fo 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 plu
 - provide the capacity to hold a moderate amount of moisture. An exception: if lovegrass will be planted, soil (less than 30 percent silt plus clay) would be acceptable
 - 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 loosened to a depth of 3 to 5 inches.
 - 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 disking or other suitable means. Rake lawn areas the surface, remove large objects like stones and branches, and ready the area for seed application. Loose by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not per seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular ridges running parallel to the contour of the slope. Leave the top I to 3 inches of soil loose and friable. S loosening may be unnecessary on newly disturbed areas.

B. Topsoiling

- I. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, mater plants, and/or unacceptable soil gradation.
- 2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specific. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile s Soil Survey published by USDA-NRCS.
- 3. Topsoiling is limited to areas having 2:1 or flatter slopes where:
 - a. The texture of the exposed subsoll/parent material is not adequate to produce vegetative growth. b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continu 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. 4. Areas having slopes steeper than 2:1 require special consideration and design.
- 5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:
 - a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. Other soils may be recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Tops be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, si coarse fragments, gravel, sticks, roots, trash, or other materials larger than 11/2 inches in diameter.
 - b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, poison ivy, thistle, or others as specified. c. Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approv
- appropriate approval authority, may be used in lieu of natural topsoil. 6. Topsoil Application
 - a. Erosion and sediment control practices must be maintained when applying topsoil.
 - b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. S be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil prepa tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in c prevent the formation of depressions or water pockets.
 - c. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is ex or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.
- C. Soil Amendments (Fertilizer and Lime Specifications)
 - I. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sit disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laborat 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 equipm may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must all be the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warra producer.
 - 3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroseeding) at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such finenes 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 soil by disking or c
 - means. 5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to (200-400 pounds per 1,000 square feet) prior to the placement of topsoil.

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THA I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 26838 EXPIRATION DATE: 01/18/2024 EMAIL: ERIC.KOHL@KCI.COM

Γ	anternette des		Engineers			REVISIONS		DATE	WILLIAM & MAITREYI VERDECCHIA	DRAWING NO.
	OF MARY		Planners	NO.	DATE	DESCRIPTION	BY	8/14/2023	SITE DEVELOPMENT PLAN NOTES	
	Tic SCOTT OLL		SCIENTISTS					SCALE		7hoPL1
10			Construction Managers					N.I.S.	THE BETTY L. JONES PROPERTY SUBDIVISION	ZHONLI
-		TZOT	936 RIDGEBROOK ROAD					DESIGNED BY		
		K(I	Sparks, Maryland 21152						10080 REED LANE	SHEET 3 OF 4
	200, 268		TELEPHONE: (410) 316-7800 Evy. (410) 316-7818					DRAWN BY	ELLICOTT CITY MD 21042	KCI JOB NUMBER
	08/21/202	IECHNOLOGIES	0101-1010 (017) XXI					JDL	ZONING: R-20 TAX MAP: 17 GRID: 20 PARCEL: 0174 ELECTION DIST: 9A	2/1803/54.96

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

	Definition The application of seed and mulch to establish vegetative cover.
	To protect disturbed soils from erosion during and at the end of construction
	To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.
	A. Seeding
al or	l . Specifications a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to
nt. After the	re-testing by a recognized seed laboratory. All seed used must have been tested within the G months
or flatter are	regarding the quality of seed. Seed tags must be available 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 around is frozen. The
	appropriate seeding mixture must be applied when the ground thaws.
or permanent	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.
us clay) to	d. Sod or seed must not be placed on soil which has been treated with soil sterilants or
then a sandy	phyto-toxic materials.
	2. Application a. Dry Seeding: This includes use of conventional drop or broadcast spreaders
	1. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B. I,
d or otherwise	Permanent Seeding Table B.3, or site-specific seeding summaries. 11. 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.
to smooth en surface soil	 Drift of Cultipacker Seeding: Internatized seeders that apply and cover seed with soil. I. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of
ermit normal	soil covering. Seedbed must be firm after planting.
conaition with Seedbed	direction.
	c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer). 1. If fertilizer is being applied at the time of seeding, the application rates should not exceed
le a suitable	the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P205 (phosphorous),
rials toxic to	200 pounds per acre; N20 (potassium), 200 pounds per acre. 11. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by
cations.	hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not
section in the	III. Mix seed and fertilizer on site and seed immediately and without interruption.
	ıv. When hydroseeding do not incorporate seed into the soil. B. Mulching
ung supplies	I. Mulch Materials (in order of preference)
	a. Straw consisting of thoroughly threshed wheat, rye, oat, 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
e used if	uniform fibrous physical state.
oil must not	I. WCTM is to be ayed green or contain a green aye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.
	II. WCFM, including dye, must contain no germination or growth inhibiting factors.
nut sedge,	mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and
red by the	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.
preading is to	IV. WCFM material must not contain elements or compounds at concentration levels that will be phyto-toxic.
aration and	v. WCFM must conform to the following physical requirements: fiber length of approximately 10
order to	maximum and water holding capacity of 90 percent minimum.
xcessively wet	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
tes having tory. Soil	aeptn of 1 to 2 incnes. 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. c. 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 of wood cellulose fiber per 100 callons of water.
ment. Manure e delivered to	3. Anchoring
ranty of the	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 upon the size of the area and
which contains as that at least	erosion hazard: 1. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil
other suitable	surtace a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour.
o 8 tons/acre	 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 liber 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 netting 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.

LOT INFOR	MATION				GENER	AL NOTES:				8.	LANDS
OWNER:	WILLIAM & MAITREYI VEF 817 STREEPER ST BALTIMORE, MD 21224 PHONE: 240-731-9666 EMAIL: MVERDECCHIA1 DEED REF. 274/598	RDECCHIA 4 6 02@GMAIL.COM 3			. IN / REC TH/ SE ⁻ TH/	ACCORDANCE W GULATIONS, BAY AN IG FEET IN W FBACKS. PORCH AN IO FEET INTO	ITH SECTION 128.0 (WINDOWS, CHIMNEY (IDTH MAY PROJECT N ES, OR DECKS, OPEN O THE FRONT OR REAR	OF THE HOWARD COUN G OR EXTERIOR STAIR OT MORE THAN 4 FEE OR ENCLOSED MAY F CYARD SETBACK	ITY ZONING WAYS NOT MORE T INTO ANY ROJECT NOT MO	IRE 8.1	THIS P SECTIC EXISTIN REQUIR
	PLAT REF. 12217 TAX MAP: 17 G SITE ADDRESS: 10 EI	GRID: 20 PARCEL: 01 0080 REED LANE LLICOTT CITY, MD 21042	74 LOT: 2		2. IN / MC SE ^T FRO MA	ACCORDANCE W IRE THAN IO FEI IBACK; PORCHE DNT OR REAR YA Y NOT ENCROAC	TH THE SUB REGULA TIN WIDTH MAY PRO OR DECKS MAY PRO RD SETBACKS. EXTER TH INTO ANY BRL	TIONS, BAY WINDOWS JECT MORE THAN 4 FE DJECT NOT MORE THA IOR BASEMENT AREAV	OR CHIMNEYS N ET INTO ANY N 3 FEET INTO TH VAYS/STAIRWAYS	OT 1E 9.	FORES
DEVELOTER.	227 GRANITE RUN DR, LANCASTER, PA 17601	SUITE 100	-014		3. THI ZO	E SUBJECT PROF NING PLAN	PERTY IS ZONED R-20	PER THE 10/06/13 CC	OMPREHENSIVE	0.1	. H
SETBACKS:	EMAIL: GREINSMITH@N PHONE: 717-464-9060	0 REQUIRED	PROPOSED		4. DR PEF	VEWAYS SHALL RMIT FOR ANY N	BE PROVIDED PRIOR [.] EW DWELLINGS TO INS	TO ISSUANCE OF A US SURE SAFE ACCESS FO	SE AND OCCUPAN OR FIRE AND	1CY	C
	MIN. LOT AREA MIN. LOT WIDTH FRONT YARD	N/A 60 FT. 50 FT.	0.99 ACRES I 75.66 FT. 85.7 FT.		EM 4.1. 4.2.	ERGENCY VEHIC WIDTH – 12' SURFACE – G	LES PER THE FOLLOWI (16' SERVING MORE 1 " OF COMPACTED CR	NG MINIMUM REQUIRE 'HAN ONE RESIDENCE) JSHER RUN BASE WIT	IMENTS: H TAR AND CHIP	10.	THE G5 BUILDE
	SIDE YARD REAR YARD	10 FT. 30 FT.	48.3 FT. 100.2 FT.		4.3.	COATING (1-1 GEOMETRY – TURNING RAD	1⁄2" MIN) MAX. 15% GRADE, M≀ ⅢS	AX 10% GRADE CHANC	GE AND MIN. 45'		EXCEED
I. NO WETLA	ANDS, STREAMS, FLOODF	34 FT. PLAIN, STEEP SLOPES, OR	ASSOCIATED BUFFERS	EXIST WHICH	4.4.	STRUCTURE - TONS (H25	(CULVERTS/BRIDGES) LOADING)	- CAPABLE OF SUPPO	DRTING 25 GROS	,S .	THE OV
MAY AFFE ARE EROI NOT WITH	ECT THE CONSTRUCTION DIBLE SOILS ON AND PRC 11N THE PLUMTREE BRANC	OF THE PROPOSED BUILD OPER SEDIMENT CONTROL CH WATERSHED.	ING AND ITS APPURTEN, DEVICES WILL BE UTILIZ	ANCES. THERE ZED. THE SITE IS	4.5. 4.6. 5. NO	GRADING, REM	DEPTH OVER DRI = SUFFICIENT TO INS DVAL OF VEGETATIVE	SING TOO-YEAR FLOO VEWAY SURFACE DURE ALL WEATHER US COVER OR TREES, PA	e Ving and new	-	MATERI MAINTA WITH N REGULA
IMPROVE	MENTS SHALL BE ADDRES	SSED AT SITE DEVELOPME	NT.		OR EAS	THEIR REQUIRE SEMENT AREAS	L BE PERMITTED WITH D BUFFERS, FLOODPL	IN THE LIMITS OF WET AIN AND FOREST CON	LANDS, STREAM(SERVATION	5),	MAINTA
5. HOWARD EVENT OF	A MALFUNCTION.	CLSS TO ANT ON LOT SW	M LACIENTES LOR INSET		G. FLA MA	G AND PIPESTEN INTENANCE ARE	1 LOTS, REFUSE COLL PROVIDED TO THE JU	ECTION, SNOW REMO NCTION OF THE FLAG	VAL AND ROAD OR PIPESTEM AN	ID	LISTED
4. NO PERS STATE RE REGULAT	ON SHALL PLACE ANY OB: GULATED RESOURCE WIT ORY AUTHORITY.	STRUCTION IN AN EASEME HOUT PRIOR WRITTEN AUT	ENT ASSOCIATED WITH A THORIZATION BY THE AF	A FEDERAL OR PROPRIATE	RO	AD RIGHT-OF-W	AY LINE AND NOT ONT	O THE PIPESTEM LOT I	ORIVEWAY		MANUA PLANTII DEPART
5. THE MUN WHERE S LOCATED PARTIES F	ICIPALITY, ITS AGENTS AN TORMWATER MANAGEMEI FOR THE PURPOSE OF IN FAIL TO DO SO, MAINTAIN	ND EMPLOYEES SHALL HAV NT AND EROSION AND SEI NSPECTING AND, IF NECES NING OR REPAIRING SAID F	YE THE RIGHT TO ENTER DIMENT CONTROL FACIL SARY, IN THE EVENT TH FACILITIES.	ANY PROPERTY LITIES ARE E RESPONSIBLE	7. THI REC FOI PER MA EAS	E FOREST CONS QUIREMENTS OF REST CONSERVA RMITTED WITHIN NAGEMENT PRAG BEMENT AREA AI	ERVATION EASEMENT SECTION 16.1200 C ATION ACT. NO CLEAR THE FOREST CONSER CTICES AS DEFINED IN LOWED.	HAS BEEN ESTABLISH F THE HOWARD COUN NG, GRADING OR CON VATION EASEMENT, HO THE DEED OF FORES	ED TO FULFILL TH ITY CODE AND ISTRUCTION IS OWEVER FOREST T CONSERVATION	IE N	LANDS LANDS AND/OF
6. STORMW NONROOI	ATER MANAGEMENT WILL FTOP DISCONNECT.	BE PROVIDED VIA A MICR	O-BIO RETENTION PON	D (M-G) AND							
7. NO WAIVE	ERS WERE APPROVED OR	APPLIED FOR WITH THIS F	PROJECT.		<u>N</u>	OTES FACILITY SHALL B	E A MINIMUM OF 10FT F	ROM ANY BUILDING.			- St
8. SUMMA A. DATE	RY OF FINDINGS FOR , E OF REPORT: NOT AF	APFO TRAFFIC ANALYS PPLICABLE	15:		2. 3. 4.	FACILITY SHALL B FACILITY SHALL B REGULAR INSPECT	E INSTALLED IN EXCAVAT E MINIMUM 4' ABOVE TH IONS SHALL BE REQUIRE IN.	ed virgin soil (not fil e seasonal high water d during following st	L). TABLE. TAGES OF	\bigwedge	<i>E1</i> BOTTON CONTO
B. DATE C. REPC	E OF COUNT(S): NOT AN DRT SUBMITTED AS PAR	PPLICABLE T OF PLAN NUMBER: NO	ON ON THAT DATE(C)		4. 4.	1. DURING EXCA UNDERDRAIN 2. DURING PLACE	ATION TO SUBGRADE AN SYSTEMS. EMENT OF PLANTING MED	D PLACEMENT AND BACK	FILL OF		E5~(
E. LIST AND	INTERSECTIONS STUDIE	D, IDENTIFY INTERSECTION D, IDENTIFY INTERSECTION RIZON YEAR OF EACH IN	N AS STATE OR COUN TERSECTION: NOT AP	TY JURISDICTION	4. 4. 5	5. DURING CONS 4. UPON COMPLE PERMANENT S E1 TO E8 AS-BU	IRUCTION OF APPURTEN/ TION OF FINAL GRADING TABILIZATION. ILT SPOT ELEVATION LOC	NT CONVEYANCE. AND ESTABLISHMENT OF ATIONS.			E3
F. PRO' OF N	VIDE STATEMENT AS TO MITIGATION/IN LIEU FEE.	WHETHER MITIGATION IS NOT APPLICABLE	REQUIRED AND EXPLA	IN THE METHOD	6.	THIS STANDARD IS DIMENSIONS FOR BE DESIGNED AND PROVIDES DIAMIN	A REFERENCE TO SHO A MICRO-BIORENTENTION APPROVED ON A SITE	W THE ELEMENTS AND M FACILITY. EACH FACILITY SPECIFIC BASIS. THIS DE	INIMUM SHALL TAIL ON IS	E6 CC	ONTOUR
"THIS IS A S F-96-132. TRIPS AND	SINGLE LOT DEVELOPN THIS SINGLE LOT SIT THEREFORE IS EXEMP	MENT THAT WAS PREVIO TE DEVELOPMENT PLAN T FROM THE ROADS TE	OUSLY SUBDIVIDED & CREATES LESS THAI ST REQUIREMENTS"	AS PART OF N 5 PEAK HOUR	*C	EE SEC	TION A-A C	ON SHEET 2	2 FOR EL	_EVA1	ΓΙΟΝ
BREAKDOV HOUSE	NN OF IMPERVIOUS	AREA OUTSIDE OF RU 1,958 SQ. FT. 50 SQ. FT	OW							JT WITH ROOF CAP	
PORCH DRIVEWAY (P.	AVED) 2	50 SQ. FT. 50 SQ. FT. 2,295 SQ. FT.				3:1 M	XX.			XXXXIV .	_6"M 12"N
TOTAL	5	5,403 SQ. FT.				SLOPE					
<u>SITE ANAL</u> a. TOTAL	YSIS DATA CHART PROJECT AREA:		0.99 AC / 42.938 S	δF			3" MULC 24"-48" PLANTIN	IH LAYER			
ь. AREA C c. LIMIT C	DF PLAN SUBMISSION: DF DISTURBANCE:		0.99 AC 29,000 SF				8" #				
d. PRESEN e. PROPO	NT ZONING DESIGNATION: SED USE FOR SITE AND S	: STRUCTURES:	R-20 SINGLE FAMILY HOUS	6E		#57 AGGREGATE-	6" MIN. ABOVE UNI	DERDRAIN			
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g. TOTAL h. TOTAL	NUMBER OF UNITS ALLOV NUMBER OF UNITS PROP	NED: OSED:						SIDES ONLY	6"-SCH 40 SOLI	WRAPPED	FVC PIPE WITH 兆 " E
I. MAXIMI	UM NUMBER OF TENANTS R OF PARKING SPACES R	D: REQUIRED:	SINGLE FAMILY 2.5 2						<u></u>		<u>A-A</u>
I. OPEN S m. AREA C	BPACE ON SITE: DF RECREATION OPEN SPA	ACE REQUIRED:	N/A N/A		-	Revised	Howard Cour Department of	nty, Maryland Public Works			MICF
n. BUILDIN o. APPLIC	NG COVERAGE OF SITE: ABLE DPZ FILE REFERENCI	ES:	.071 AC OR 7.2% F-96-132, ECP-22-0	038		Revised 5/30/2017	Approved: monal	2. Sutle	1		
p. OTHER q. NUMBE	INFORMATION: ER OF REQUIRED AND PRO	DVIDED MIHU'S:	ERODIBLE SOILS ON N/A	SITE		, ψμι υνου	oner, pureau or Engineerin	9	<u></u>		
r. MIXED	UUL FRUJECT INFORMATI		RAWING LE	GEND							ADD
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		PROPOSED BUILDING	(47)	HEA)	CW5]	CONCRETE WASHOL	JT	GnB(C)	GLEN	VILLE-BA
Owners/Develo	765.0 X	PROPOSED SPOT ELEV	VATION				STABILIZED CONSTR	UCTION ENTRANCE		SHEFT II	NDFX
"I/We	hereby certify that any clea ursuant to this approved ero	aring, grading, construction, osion and sediment control n	or development will be lan, including inspecting						SHEE	T NO.	
and ma project	intaining controls, and that t will have a Certificate of Tr	the responsible personnel inv raining at a Maryland Depart	olved in the construction ment of the Environment		×		FOREST CONSERVA	TION EASEMENT		2 3 4	N U U
(MDE) beginni County	ing the project. I certify rig the Howard Soil Conservat	ht-of-entry for periodic on-si tion District and/or MDE."	te evaluation by Howard		~~~~		NON-ROOFTOP DISC	CONNECT			
William V	Verdecchia Verdecchia Series by William Date: 2023.03.14 1263-00-00100	Murdecoha 81	14/2023			YYYYYY.	PROPOSED TREE LIN	E			
Owner'	s/Developer's Signature	Date									
Printed	Name & Title	States and		DEVELO	PER	S/OWNI	ER'S CERT	FICATE			
"I hereb	by certify that this plan has	been designed in accordanc	e with current Maryland	ACCORDING TO AND THE HOW	ARD CC	LAN. SECTION	18.124 OF THE HOW	ARD COUNTY CODE, FURTHER CERTIFY T	НАТ		
erosion practica prepare	and sediment control law al and workable plan based of d in accordance with the requ	vs, regulations, and standar on my personal knowledge o uirements of the Howard Soil	us, that it represents a f the site, and that it was Conservation District."	BY AN EXECU	TION A	CERTIFICATION YEAR GUARA	OF LANDSCAPE INS	TALLATION, ACCOMPA TERIALS, WILL BE SU	INIED BMITTED		
F-Factor	athe Stick	8/15/202	3	ANAL			AND LUMING.		220		
Designe	er's Signature	Date	-	OWNER	nal w	in La	100	- 6772	141		
MAT Printed	IHEW SICHEL Name	MD Regist P.E., R.L.S	ration No. <u>28935</u> ., or R.L.A. (circle one)	APPROVED	: DEP	ARTMENT C	F PLANNING AN	ID ZONING 9/13/2023			
Howard SC	CD Signature Block:			Chief, Developr	nent Eng	UTILY Edme	ndsøn	Date			D K D
Thi	is plan is approved for ntrol by the Howard Soil	soil erosion and sedime Conservation District.	ent		(1EB7547847784778407		9/14/2023		Eric k	Kohl
201	DocuSigned by: Olexander	, Bratchie 9/13/202	23	Chief, Division of	of Land	evelosinenty: Lynda Fise	where	Date 9/14/2023	i		C D 1
Ho	oward Soil Conservation	District Date	_	Director	(4220B635863942E		Date			

