### SHEET INDEX SITE DEVELOPMENT PLAN SHEET NO. DESCRIPTION 1 TITLE SHEET HOWARD HEIGHTS DEMOLITION PLAN SITE DEVELOPMENT PLAN SEDIMENT & EROSION CONTROLS NOTES & DETAILS \_OT 26A SWM PROFILES 6 LANDSCAPE PLAN TAX MAP No. 17 GRID No. 22 PARCEL NO. 211 STORMWATER MANAGEMENT PRACTICES % IMPERVIOUS ESDV REQUIRED CUFT. ESDV PROVIDED BIO-RETENTION DRY WELL RECHARGE CHAMBER (Y/N) 100% 94 96 AREA ID LOCATION ADDRESS SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND LOT 26-A | 2940 50UTHVIEW | 18,731 STORMWATER MANAGEMENT SUMMARY REQUIRED PROVIDED CU.FT. CU.FT. DRYWELLS (M-5) & SITE 962 1,052 MICRO-BIORETENTION (M-6) 962 GROSS AREA = 0.52 AC. (TOTAL) LOD = 0.30 ACRES GUTTER DRAIN FILTER DETAIL RCN = 57.8TARGET Pe = 1.8" Pe PROVIDED = 2.6" RV = 0.05 + (0.009) (I); I = 49%\*THE EXACT NUMBER OF DRYWELLS REQUIRED AND THE LENGTH AND WIDTH = 0.495 = 0.26 (87% 'B' 50i|s, 13% 'D' 50i|s)WILL BE DETERMINED ONCE DOWNSPOUT Rev = (5) (Rv) (A)/12DRAINAGE PATTERNS ARE DETERMINED. = (0.26) (0.45) (0.14)/12= 0.0015 ac-ft or 65 cu-ft —CAP WITH LOCK " PERFORATED HDPE STORM OF RECORD MANAGEMENT: NOTE THAT THE ELLICOTT CITY STORM OF RECORD CONSISTS OF 6.6" OVER A 3.5 HOUR PERIOD. Q PRE= 0.59 cfs -8" HOPE TO STONE Q POST= 0.41 cfs RECHARGE CHAMBER 10-YEAR AND 100-YEAR MANAGEMENT @ 2% GRADE WILL ALSO BE PROVIDED. SITE ANALYSIS DATA CHART OBSERVATION WEL 4 INCH PERFORATED PVC PIPE ON CONCRETE FOOTPLATE TOTAL AREA OF THIS SUBMISSION = 0.52 AC. ± (LOT 26-A) LIMIT OF DISTURBED AREA = 13,051 S.F. OR 0.30 AC. PRESENT ZONING DESIGNATION = R-20(PER 10/06/2013 COMPREHENSIVE ZONING PLAN) STONE ASTM D-448 SIZE # STONE ASTM PROPOSED USE: ONE SINGLE FAMILY DETACHED DWELLING PREVIOUS HOWARD COUNTY FILES: P.B. 5, P.19; D-1150, AND ECP-22-003 (NON- WOVEN) TOTAL AREA OF FLOODPLAIN LOCATED ON-SITE = 0.00 AC. ± TOTAL AREA OF STEEP SLOPES: STORMWATER MANAGEMENT NOTES MODERATED STEEP SLOPES: 15%-24.9% = 0.00 AC± STEEP SLOPES: 25% OR GREATER = 0.00 AC± TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.28 AC. ± . STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH TOTAL AREA OF STREAM (INCLUDING BUFFER) = 0.27 AC. ± TOTAL AREA OF EXISTING FOREST = 0.00 AC+ EXEMPT < 40,000 SQ.FT. TOTAL AREA OF FOREST TO BE RETAINED = N/A 12" SAND, ROTOTILL 1'-0" BELOW TRENCH TOTAL AREA OF LOTS / BUILDABLE PARCELS = 0.52 AC+ TOTAL GREEN OPEN AREA = 0.38 AC± IMPERVIOUS AREA = 0.14 AC± TOTAL AREA OF ERODIBLE SOILS = 0.00 AC. ± 3. DRYWELLS SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH TOTAL AREA OF ROAD DEDICATION = 0.00 AC. ± VICINITY MAP TRENCH MAY NOT BE TOTAL PARKING SPACES REQUIRED = 2 INSTALLED IN FILL. TOTAL PARKING SPACES PROVIDED = 4 GROUND WATER V 50IL5 LEGEND 4. FINAL GRADING IS SHOWN ON THIS ENVIRONMENTAL CONCEPT PLAN. DRY WELL DETAIL (M-5) BENCH MARK INFORMATION 5CALE: 1" = 2,000CLASS K FACTOR 50IL HOWARD COUNTY CONTROL STATION - 17EF ELEV. = 473.651BaA Baile Silt Loam, 0 to 3 percent slope D || .32 OPERATION & MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6) Glenelg-Urban Land Complex, 0 to 8 percent slope | B N 594,243.880 FEET E 1,358,578.648 FEET Soil Map Number: 13 (Ellicott City, SW) HOWARD COUNTY CONTROL STATION - 17HA ELEV. = 437.548 A. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. lable B.4. Materials Specifications for Micro—Bioretention, Rain Gardens & Landscape Infiltration MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY N 590,619.892 FEET E 1,360,433.437 FEET Material MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR Notes DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. see Appendix A; Table A.4 plantings are site—specific ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND JSDA soil types loamy sand or sandy loam; clay content <5% loamy sand 60-65% STORMWATER DESIGN MANUAL VOLUME II, TABLE A.4.1 AND 2 [2' to 4' deep] compost 35-40% B. THE OWNER SHALL PERFORM A PLANT IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE DRY WELL CHART INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED VEGETATION CONSIDERED BEYOND sandy loam 30% TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TREAT coarse sand 30% DRYWELL AREA OF ROOF | VOLUME | VOLUME | AREA OF DISEASED TREES AND SHRUBS AND REPLACE ALL DEFICIENT STAKES AND WIRES. compost 40% PER DOWN SPOUT REQUIRED PROVIDED TREATMENT THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO Min. 10% by dry weight (ASTM D 2974) Organic Content (NON-PERVIOUS) THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED. 655 5q. Ft. | 94 C.F. | 96 C.F. | 100%\* | 8 x 6 x 5 D. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER shredded hardwood aged 6 months, minimum 637 5q. Ft. | 91 C.F. | 96 C.F. | 100%\* | 8 x 6 x 5 MONTH AND AFTER EACH HEAVY STORM. pea gravel: ASTM-D-448 Pea gravel diaphragm 453 5q. Ft. | 65 C.F. | 80 C.F. | 100%\* | 8 x 5 x 5 stone: 2" to 5" Curtain drain ornamental stone: washed \* AREA OF TREATMENT EXCEEDS THAT REQUIRED. NOTE: 3, 5, AND 6 DRAIN TO MICRO-BIORETENTION FACILITY Grāvel (underdrāins and infiltration berms) 12' (SINGLE USER) AASHTO M-43 No. 57 or No. Aggregate (3/8" to 3/4") F 750, Type P5 20 or AASHTO M-270 Jnderdrain piping 4" to 6" rigid schedule Slotted or perforated pipe; 3/8" pert. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes. Perforated pipe shall 40 PVC or 5DR35 (FACING WEST TOWARD SITE) M5HA Mix No. 3; f = 3500 psi at 28 days, normal weight, on-site testing of poured-in-place concrete required Poured in place concrete (ij 28 day strength and slump test; all concrete design -ON-SITE P-1 PAVING SECTION L MATERIALS AND CONSTRUCTION SHALL BE IN air-entrained; reinforcing to (cast-in-place or pre-cast) not using previously approve PROPOSED IMPERVIOUS SWM DRAINAGE AREAS meet ASTM-615-60 CCORDANCE WITH HOWARD COUNTY DESIGN MANUAL State or local standards requires design drawings sealed and approved by a professional structural engineer VOLUME IV, STANDARD SPECIFICATION AND DETAILS licensed in the State of Maryland - design to include meeting ACI Code 350.R/89; vertical loading [H-10 or H-20]; allowable horizontal loading (based on soil TYPICAL PRIVATE DRIVE CROSS SLOPE SECTION pressures); and analysis of potential cracking NOT TO SCALE AASHTO-M-6 or ASTM-C-33 0.02" to 0.04 #10 are not acceptable. No calcium carbonated or dolomitic SLOPE THE DRIVEWAY SO THAT WATER DOES NOT FLOW sand substitutions are acceptable. No "rock dust" can be DIRECTLY ONTO THE ADJACENT SOUTHERN PARCEL. used for sand. DESIGNER'S CERTIFICATION PROFESSIONAL CERTIFICATION HIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL E THE HOWARD SOIL CONSER<del>VA</del>TIONSIDIGITALCT I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND 3/6/2023 Olexander Bratchie THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 27020, EXPIRATION DATE: 01/25/24. HOWARD SOIL CONSERVATION DISTRICTA 9B64 HOWARD SOIL CONSERVATION DISTRICT." Paul G. Cavanaugh 1/6/2023 1/6/2023 Paul G. Cavanaugh PAUL G. CAVANAUGH FISHER, COLLINS & CARTER, INC. BUILDER/DEVELOPER'S CERTIFICATE DESIGNER'S SIGNATURE IL ENGINEERING CONSULTANTS & LAND SURVEYORS "I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT Paul G. Cavanaugh WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN. MD Registration No ELLICOTT CITY, MARYLAND 21042 INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PRINTED NAME PROFESSIONAL CERTIFICATION P.E., R.L.S., OR R.L.A. (CIRCLE ONE) PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING OWNER / DEVELOPER PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE

GENERAL NOTES

THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK. . THE CONTRACTOR SHALL NOTIFY (MISS UTILITY) AT 1-800-257-7777 AT LEAST 40 HOURS PRIOR TO ANY EXCAVATION WORK BEING

3. BOUNDARY SHOWN HEREON IS BASED ON FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED BY FISHER, COLLINS & CARTER, INC. DATED JUNE, 2018. TOPOGRAPHY SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY PERFORMED BY FISHER, COLLINS & CARTER, INC. IN MAY 2018 AND SUPPLEMENTED WITH HOWARD COUNTY GIS TOPOGRAPHY AT 5' CONTOUR INTERVAL INTERPOLATED FOR

THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 17HA AND 17ID WERE USED FOR THIS PROJECT. PREVIOUS DPZ FILE NUMBERS: PLAT BOOK 5, PAGE 19; D-1150

STORM WATER MANAGEMENT WILL BE PRIVATELY OWNED AND MAINTAINED AND IS IN ACCORDANCE WITH THE M.D.E. STORM WATER DESIGN MANUAL, VOLUMES I & II, REVISED 2009. NON-STRUCTURAL PRACTICES IN ACCORDANCE WITH CHAPTER 5 ARE BEING UTILIZED, INCLUDING DRY WELLS. A MICRO BIORETENTION FACILITY. AND AN UNDERGROUND STORMWATER CHAMBER.

7. THIS PROPERTY IS LOCATED INSIDE THE METROPOLITAN DISTRICT. LOTS TO BE SERVED PUBLIC WATER AND SEWER, CONTRACT #11-W 8. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.

9. THE SUBJECT PROPERTY IS ZONED R-20 PER DATE 10/06/2013 COMPREHENSIVE ZONING PLAN.

10. NO STEEP SLOPES EXIST ON-SITE, HOWEVER THE SITE CONTAINS WETLANDS, STREAM(S) AND/OR THEIR BUFFERS. SEE ENVIRONMENTAL FINDINGS LETTER PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED JUNE 14, 2018 THE PERIMETER LANDSCAPE OBLIGATION IS PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL, A LANDSCAPE SURETY IN THE AMOUNT OF \$1,800 BASED ON 6 SHADE TREES @ \$300/SHADE TREE, SHALL BE

THIS PROJECT IS EXEMPT FROM FOREST CONSERVATION REQUIREMENTS BECAUSE THE AREA OF THE PARCEL IS SQUARE FEET PER SECTION 16.1202(b)(1)(vi) OF THE COUNTY CODE. 13. A SOIL BORING REPORT IS PROVIDED FOR THIS PROJECT SINCE DRYWELLS, A MICRO-BIORETENTION FACILITY, AND UNDERGROUND

STORMWATER CHAMBER ARE BEING UTILIZED. 14. A SMALL SHED EXISTS ON THE PROPERTY AND WILL BE REMOVED. SEE DEMOLITION PLAN

BONDED AS PART OF THE DPW DEVELOPERS AGREEMENT.

15. SOILS SHOWN HEREON ARE BASED ON THE NRCS WEBSOIL SURVEY AND HOWARD COUNTY SOIL MAP #13 16. NO HISTORICAL FEATURES OR CEMETERIES ARE ON SITE.

17. ON JULY 10, 2019, THE DIVISION OF PUBLIC SERVICE AND ZONING DEPARTMENT, DETERMINED THAT THE PROPERTY (LOT 26–A) IS A 10a. A NECESSARY DISTURBANCE REQUEST (TO ALLOW FOR INSTALLATION OF OUTFALL 0° HDPE PIPE FOR UNDERGROUND STORMWATER CHAMBER) HAS BEEN SUBMITTED FOR SECTION 16.116(C)(1) AND WAS APPROVED ON 9/9/22 BASED ON THE FOLLOWING CONDITIONS: 1. THE OUTFALL CONSTRUCTION SHALL ONLY DISTURB THE 560 SF OF THE WETLAND, WETLAND BUFFER AND STREAM BUFFER IN THE AREA DELINEATED ON THE SITE DEVELOPMENT PLAN (SDP-22-032). ANY DISTURBANCES TO REGULATED ENVIRONMENTAL

OF PLANNING & ZONING IN ACCORDANCE WITH SECTION 16.116(c). 2. THE DISTURBED AREAS SHALL BE STABILIZED AND SEEDED IN ACCORDANCE WITH THE SDP-22-032 AND SEDIMENT CONTROL PLAN. 16b. AN DESIGN MANUAL WAIVER FOR REMOVAL OF THE DRIVEWAY WIDTH REQUIREMENT WAS APPROVED ON 3/9/22 DUE TO THE EXISTING HOUSE AND STAIRWELL PROHIBITING THE USE OF A WIDER DRIVEWAY AT THAT SPECIFIC LOCATION. BOLLARDS WILL BE INSTALLED TO PROTECT THE HOUSE AND BASEMENT STAIRWELL FROM DRIVEWAY TRAFFIC.

FEATURES BEYOND THIS REQUEST ARE NOT PERMITTED UNLESS THE APPLICANT SUBMITS A FORMAL REQUEST TO THE DEPARTMENT

10c. SDP-22-032 WAS DESIGNATED "TECHNICALLY COMPLETE" ON SEPTEMBER 13, 2022. 19. THE PROPERTY IS WITHIN THE PLUMTREE BRANCH WATERSHED, REQUIRING STORM OF RECORD TO BE ADDRESSED. THE ELLICOTT STORM OF RECORD 6.6" OVER A 3.5 HOUR PERIOD. IS BEING USED FOR THIS SITE. 10-YEAR AND 100-YEAR MANAGEMENT WILL ALSO BE

20. EXISTING UTILITIES ARE BASED ON MISS UTILITY MARKINGS, FIELD LOCATIONS AND AVAILABLE COUNTY INFORMATION.
21. SHC ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE. THIS PROJECT WILL REQUIRE THE USE OF AN EJECTOR PUMP FOR BASEMENT AND AN ASSOCIATED BUREAU OF ENGINEERING WAIVER, APPROVED ON JUNE 14, 2022. GRAVITY FLOW WILL BE SUFFICIENT

22. DRIVEWAY SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR THE NEW DWELLING TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:

(REFER TO HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6.06 FOR DRIVEWAY ENTRANCE.) SURFACE- 6" OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1½ MIN) GEOMETRY- MAX. 15% GRADE, MAX 10% GRADE CHANGE AND MIN. 45' TURNING RADIUS.

STRUCTURE (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING) DRAINAGE ELEMENTS - SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE. MAINTENANCE- SUFFICIENT TO INSURE ALL WEATHER USE.

# DESIGN NARRATIVE

HOUSE ELEVATIONS

ADDRESS CHART

STREET ADDRESS

2940 Southview Road

WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007

MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT

OF DISCONNECTION IS LESS THAN 75' AT 5%. THE SIZE AND

CONSTRUCTION OF THE DRYWELL SHALL BE IN ACCORDANCE WITH

MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL,

LOT NUMBER I

EFFECTIVE MAY 4, 2010.

SHALL BE 1,000 SQ. FT. OR LESS.

THE DETAIL SHOWN ON THIS SHEET.

NOT TO SCALE

This report will demonstrate how the criteria set forth in the Maryland Stormwater Design Manual, Volumes I and II (effective October 2000, revised May 2009) will be satisfied on this project. The goal of creating hydrology similar to that of Woods in Good Condition Will be accomplished through the use of the practices contained within Chapter 5 of said manual. The achievement of this goal will remove the requirement of providing Channel Protection Volume.

General Site Conditions: 2940 Southview Road is zoned R-20 and is located on Tax Map 17, however the parcel is inaccurately shown as one parcel with lot 21 (Parcel 211), of the Howard County, Maryland Tax Map Database System. The property is directly behind Lot 21 of a subdivision entitled "Howard Heights, Section 2" as Recorded in Plat Book 5, Page 19, dated December, 1955. The site is currently a vacant lot that is maintained generally as a lawn for the benefit of the adjacent lot, the lawn area includes numerous landscape and shade trees. This subdivision is exempt from the requirements of Section 16.1200 of the Howard County Code for Forest Conservation, because the Parcel is less than 40,000 square feet in accordance with Section 16.1202(b)(I)(vi) of the Howard County Code. The proposed house will be served by public water and public sewer. The runoff from the lot is mostly from east to west, with said runoff going towards a stream in the rear of the property, privately owned and maintained Micro-Bioretention and Drywells will be utilized to treat the rooftop and inlets running to an Underground Stormwater Chamber will address the proposed driveway. Per the 2004 Web Soil Survey, soils on-site consist of

"BaA" Baile Silt Loam, type D soil and "GhB" Glenelg-Urban Land Complex, type B Soil. Natural Resource Protection: Environmentally sensitive features such as a stream and its buffer, wetlands and their buffers, do exist on-site. Stream, wetlands, wetland buffer will have super silt fence provided to protect them during

II. <u>Maintenance of Natural Flow Patterns:</u> Natural flow patterns will be maintained. Existing and proposed runoff flows mostly toward the West

portion of the site. III. <u>Reduction of impervious areas through better site design. alternative surfaces and Nonstructural Practices</u> A single driveway will be utilized to provide access to the proposed house. The pavement will consist of

A-2 Permeable Pavement. IV. Integration of Erosion and Sediment Controls into Stormwater Strategy:

Diversion Fence and Super Silt Fence will be utilized to provide erosion and sediment control. V. Implementation of ESD Planning Techniques and practices to the Maximum Extent Practicable (MEP)

The full required E5D volume is being provided along with storm of record management.

VI. Request for a Design Manual Waiver: No waivers related to stormwater management are required. There are no additional SWM requirements due to the environmental waivers. The Design Manual waiver request for driveway width was approved on 3/9/2022. A design manual waiver for pumping sanitary for basement was approved on June 14, 2022. OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DRY WELLS (M-5)

A. THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS AND AFTER EVERY HEAVY STORM EVENT.

B. THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO ENSURE TRENCH DRAINAGE.

C. THE OWNER SHALL MAINTAIN A LOG BOOK TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS. D. WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN A SEVENTY-TWO (72) HOUR

TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.

E. THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.

F. ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED. THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.

### OPERATION AND MAINTENANCE SCHEDULE FOR OWNED AND MAINTAINED UNDERGROUND SWM FACILITY (UNDERGROUD STORMWATER CHAMBER) ROUTINE MAINTENANCE RESPONSIBILITIES:

1. THE UNDERGROUND S.W.M. FACILITY SHALL BE INSPECTED ANNUALLY AND AFTER MAJOR STORMS. INSPECTIONS SHOULD BE PERFORMED DURING WET WEATHER TO DETERMINE IF THE FACILITY IS FUNCTIONING PROPERLY.

2. MAINTENANCE OF THE 40-INCH PIPES SHALL BE PERFORMED BY FLUSHING THE SYSTEM THROUGH THE CLEAN-OUTS PROVIDED AND BY VACUUMING AT MANHOLE ACCESS. THE DISCHARGE / ORIFICE OF THE JNDERGROUND S.W.M. FACILITY SHALL BE TEMPORARILY BLOCKED DURING SAID MAINTENANCE OPERATION.

DISPOSAL OF MATERIAL SHALL BE IN ACCORDANCE WITH SIMILAR B.M.P. THAT RANGE FROM DISPOSAL IN A SANITARY LANDFILL TO INCINERATION IN A LICENSED FACILITY. PETROLEUM WASTE PRODUCTS SHOULD BE REMOVED BY A LICENSED WASTE MANAGEMENT COMPANY.

4. FLOW SPLITTER AT 1NLET I-1 SHALL BE CHECKED AND COMPLETELY CLEANED OUT TWICE PER YEAR

# NON-ROUTINE MAINTENANCE

STRUCTURAL COMPONENTS OF THE UNDERGROUND FACILITY SUCH AS THE MANHOLES, PIPES AND/OR ORIFICE SHALL BE REPAIRED UPON DETECTION OF ANY DAMAGE. THE COMPONENTS SHOULD BE INSPECTED DURING ROUTINE MAINTENANCE OPERATIONS. INSPECTION REPORTS SHALL BE KEPT UNTIL THE NEXT SUBSEQUENT

PROBLEMS IDENTIFIED DURING INSPECTION WILL BE PROMPTLY CORRECTED. MAJOR PROBLEMS SHALL ALSO BE BROUGHT TO THE ATTENTION OF THE HOWARD COUNTY DEPT. OF PUBLIC WORKS TO INSURE THAT PUBLIC SAFETY

IS MAINTAINED. BLOCKED DURING SAID MAINTENANCE OPERATION.

PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE. Surinder Single 1/6/2023

SIGNATURE OF DEVELOPER

DATE

DATE

### I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT I REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE. AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF TH

MR. SURINDER SINGH C/O BABBU HOMES LLC

10610 WARBURTON CT.

ELLICOTT CITY, MARYLAND 21042

410-350-6333

APPROVED: HOWARD GOUNTY DEPARTMENT OF PLANNING AND ZONING 3/6/2023 Chief, Division of Landon Bayrel appment 3/7/2023 (Hd) Edmondson Da†e 3/7/2023 Chief, Development Engineering Division Amy Gonan Director - Departmensuspostaborning and Zoning PARCEL NO. 2940 SOUTHVIEW ROAD N/A 211 BLOCK NO. ZONE TAX/ZONE | ELEC. DIST. CENSUS TR SECOND 20035/168 22 PREVIOUS HOWARD COUNTY FILES: ECP-22-003, WP-07-087

# HOWARD HEIGHTS - LOT 26A

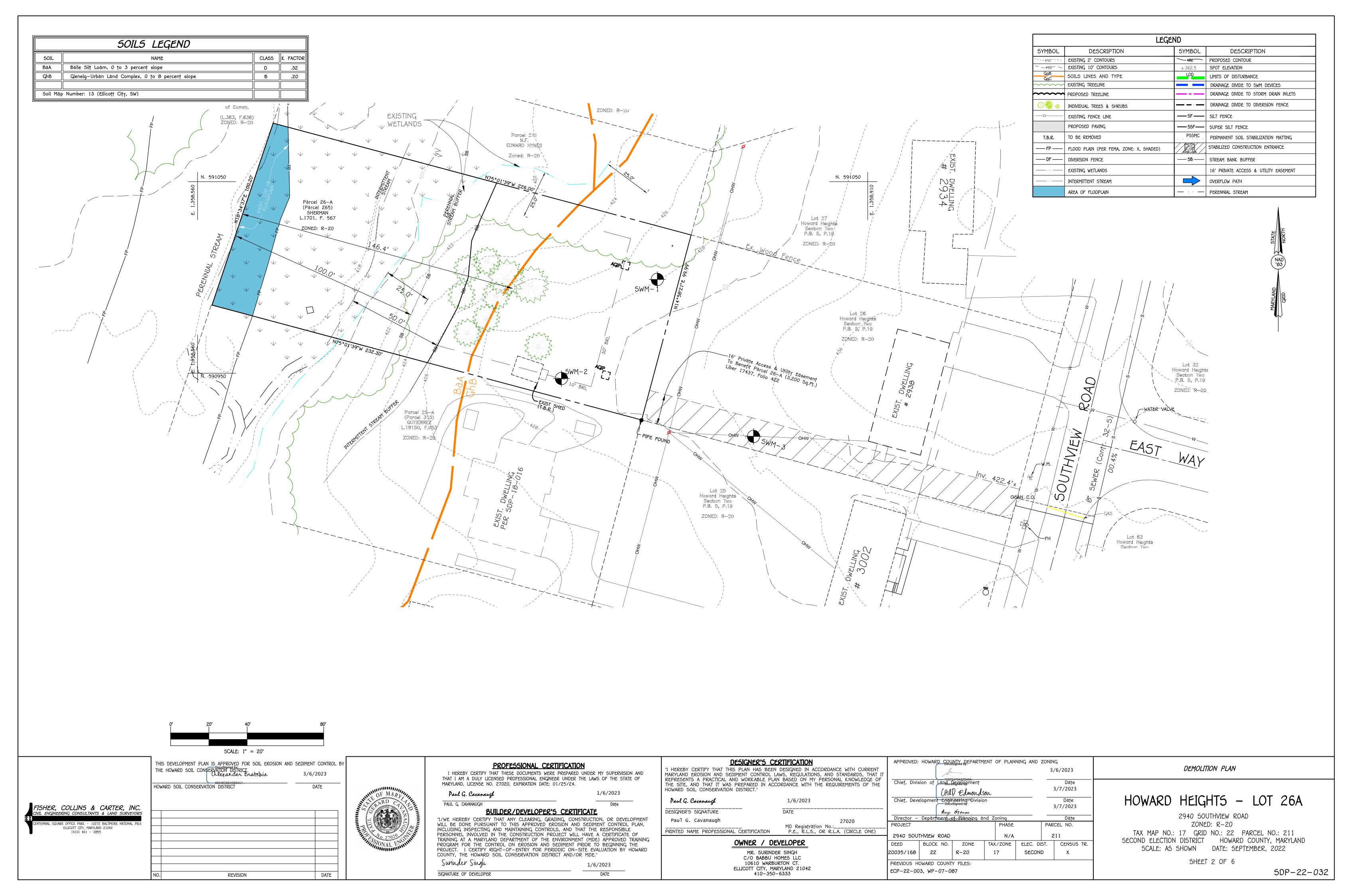
TITLE SHEET

2940 SOUTHVIEW ROAD ZONED: R-20

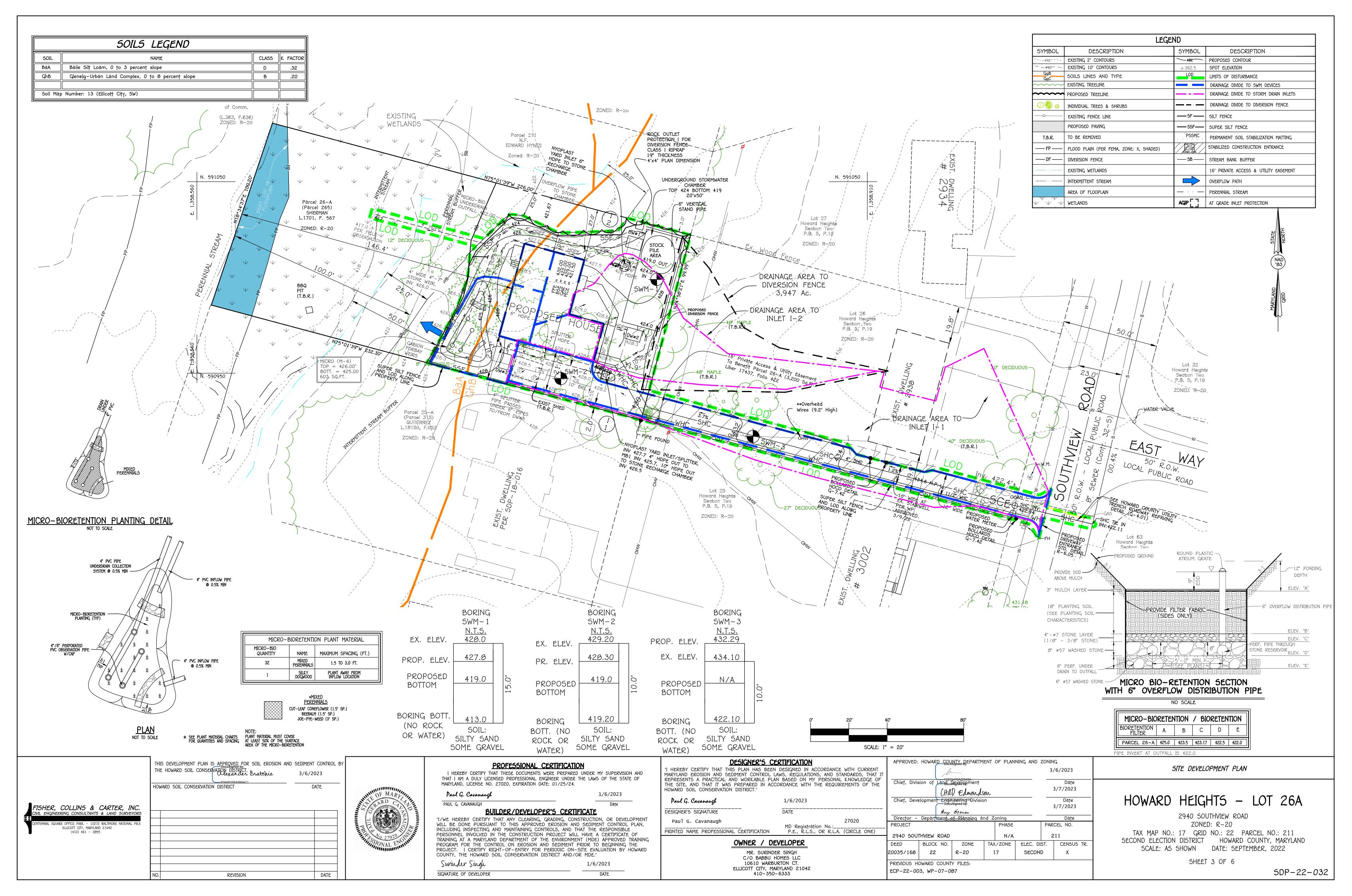
TAX MAP NO.: 17 GRID NO.: 22 PARCEL NO.: 211 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: SEPTEMBER, 2022

SHEET 1 OF 6

5DP-22-032



I:\2018\18005\Engineering\Dwgs\Lot 26A\SDP\18005-6003 Lot 26A SDP 02.dwg, 9/15/2022 3:09:11 PM,



I:\2018\18005\Engineering\Dwgs\Lot 26A\SDP\18005-6003 Lot 26A SDP 03.dwg, 9/15/2022 3:12:54 PM, DWG

### SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS (B-4-2)

### A. Soil Preparation

Temporary Stabilization

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

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

c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.

### Permanent Stabilizatio

a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:

Soil pH between 6.0 and 7.0 . Soluble salts less than 500 parts per million (ppm).

v. Soil contains sufficient pore space to permit adequate root penetration.

iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: if lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable. v. Soil contains 1.5 percent minimum organic matter by weight.

b. Application of amendments or topsoil is required if on—site soils do not meet the above conditions.

. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.

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 to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seedbed loosening may be unnecessary on newly disturbed areas.

1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA—NRCS.

3. Topsoiling is limited to areas having 2:1 or flatter slopes where:

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

b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients

c. The original soil to be vegetated contains material toxic to plant growth.

d. The soil is so acidic that treatment with limestone is not feasible

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 e. If soil moisture is deficient, supply new seedings with adequate water for plant growth ( 1/2 to 1 inch be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1

b. Topsoil must be free of noxious plànts or plànt pàrts such às Bermudà gràss, quàck gràss, Johnson gràss, nut sedge, poison ivy, thistle, or others as specified.

c. Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in 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. Spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to prevent the formation of depressions or water pockets.

excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation. C. Soil Amendments (Fertilizer and Lime Specifications) Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer

c. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is

on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical 2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate

equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer 3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when

hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 98 to 100 1. Excavate and stabilize cut slopes in increments not to exceed 15 feet in height. Prepare seedbed and 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 other suitable means.

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

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.1 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.1 plus fertilizer and

2. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are

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.1.b and maintain until the next seeding season.

Temporary Seeding Summary

	e (from Figure B. (from Table B.1):		Ferțilizer	Rate (10-20-20)	Lime Rat
Species	Application Rate (Ib/ac)	Seeding Dates	Seeding Depths		
BARLEY	96	3/1 - 5/15, 8/1 - 10/15	1"	436 lb/ac (10 lb/ 1000 sf)	2 †ons/ (90 lb/ 1000 st
OATS	72	3/1 - 5/15, 8/1 - 10/15	1"		
RYE	112	3/1 - 5/15, 8/1- 10/15	1"		
FOXTAIL MILLET	30	5/16 - 7/31	0.50"	]	

### PERMANENT SEEDING NOTES (B-4-5) A. Seed Mixtures

1. 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 8.3) and based on the site condition or purpose found on Table 8.2 Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.

special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.

b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for

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 .

à. Areàs where turfgràss mày be desired include làwns, pàrks, plàygrounds, ànd commerciàl 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 Cultivary 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. Kentycky Bluegrass/Perennial Rye: Fyll Syn Mixtyre: For use in fyll syn 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

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.

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: 1 1/2 to 3

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

Ideal Times of Seeding for Turf Grass Mixtures Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b, 6a) Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 6b) Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15

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 1 1/2 inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no

when seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse

### Permanent Seeding Summary

	Hardiness Zone (from Figure B.3): <u>6b</u> Fertilizer Rate (10-20-20) Seed Mixture (from Table B.3): <u> </u>								
No.	Species	Application Rate (lb/ac)	Da†es ´	Seeding Depths	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	. Lime Rațe	
8	TALL FESCUE	100	Mar. 1-May 15 Aug. 1-Oct. 15	in.	per acre	90 lb/ac (2 lb/	90 lb/ac (2 lb/	2 tons/ac (90 lb/	
N/A	MILLET FOXTAIL	50 50	May 15-June 15	1/4-1/2 in.	(1.0 lb/ 1000 sf)	1000 sf)	1000 sf)	1000 sf)	
N/A	50D	100	Mar. 1-May 15 May 16-Sept. 14 Sept. 15-Nov. 15	3/4 in.					
	5WITCH GRASS BUSH CLOVER (LEGUME)		June 1-July 31	4–7 in. Max.					

# B-4-1 STANDARDS AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION

Definition Establishment of vegetative cover on cut and fill slopes.

Purpose

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

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

A. Incremental Stabilization — Cut Slopes

apply seed and mulch on all cut slopes as the work progresses. 2. Construction sequence example (Refer to Figure B.1): a. Construct and stabilize all temporary swales or dikes that will be used to convey runoff around

the excavation. b. Perform Phase 1 excavation, prepare seedbed, and stabilize. c. Perform Phase 2 excavation, prepare seedbed, and stabilize. Overseed Phase 1 areas as

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

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.

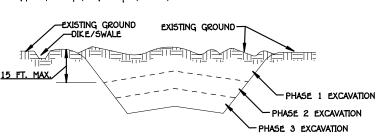


Figure B.1: Incremental Stabilization - Cut

B. Incremental Stabilization - Fill Slopes 1. 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):

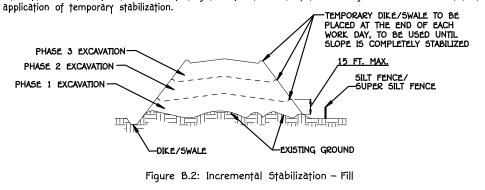
the fill. Construct silt fence on low side of fill unless other methods shown on the plans address b. At the end of each day, install temporary water conveyance practice(s), as necessary, to

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

intercept surface runoff and convey it down the slope in a non-erosive manner. c. Place Phase 1 fill, prepare seedbed, and stabilize.

DATE

d. Place Phase 2 fill, prepare seedbed, and stabilize. 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 interruptions in the operation or completing the operation out of the seeding season will necessitate the



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

STANDARD STABILIZATION NOTE

### STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

(B-4-3)

Definition

To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

The application of seed and mulch to establish vegetative cover

AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

To protect disturbed soils from erosion during and at the end of construction. Conditions Where Practice Applies

a. All seed must meet the requirement of the Maryland State Seed Law. All seed must be subject

to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 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 ground is

frozen. The appropriate seeding mixture must be applied when the ground thaws. 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 keetp inoculant as cook as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less effective. d. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals

used for weedcontrol until sufficient time has elapsed (14 days min.) to permit dissipation of

a. Dry Seeding: This includes use of conventional drop or broadcast spreaders.

Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3, or site-specific seeding summaries. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with weighted roller to provide good seed to soil

b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in

Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer). If fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P 0 (phosphorus),

200 pounds per acre; K O (potassium), 200 pounds per acre. i. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.

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

Mulch Materials (in order of preference) 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 no musty, moldy, caked, decayed, or excessively dusty. Note: Use only sterile straw mulch in areas

where one species of grass is desired. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into uniform fibrous physical state. WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate colot to facilitate visual inspection of the uniformly spread slurry.

WCFM, including dve, must contain no germination or growth inhibiting factors. ii. WCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotter-like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the

iv. WCFM material must not contain elements or compounds at concentration levels that will by WCFM must conform to the following physical requirements: fiber length of approximately 10

millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum.

Apply mulch to all seeded areas immediately after seeding. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons Wood cellulose fiber used as mulch must be applied to 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 gallons of water. b. 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 erosion hazard: i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter

slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tax II, Terra fack 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 4-15 feet wide and 300 to 3,000 feet long.

### STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

(B-4-8)<u>Definition</u>

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

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

Conditions Where Practice Applies Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

Criteria

The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan The footprint of the stockpile must be sized to accommodate the anticipated volume of material and

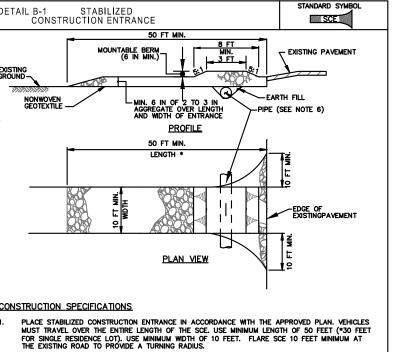
pased on a side slope ratio no steeper tha 2:1. Benching must be provided in accordance with Section B-3 Land Grading. Runoff from the stockpile area must drain to a suitable sediment control practice Access the stockpile area from the upgrade side.

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 Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.

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

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



PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERN WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.

MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEETING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

# HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL FROSION AND SEDIMENT CONTROL

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

2011 MARYLAND DEPARTMENT OF ENVIRONMEN
WATER MANAGEMENT ADMINISTRATION

b. Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading c. Prior to the start of another phase of construction or opening of another grading unit, d. Prior to the removal or modification of sediment control practices Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made. Other related state and federal permits shall be referenced, to ensure coordination and to

2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND

3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and seven (7) calendar days as to all other disturbed areas on the project site except for those areas under active grading. 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). emporary 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 >15of cut and/or fill. Stockpiles (Sec. B-4-8) in excess of 20 ft. must be benched with stable outlet. All

concentrated flow, steep slope, and highly erodible areas shall receive soil stabilization matting (Sec. B-4-6). 5. All sediment control structures are to remain in place, and are to be maintained in operative condition until

permission for their removal has been obtained from the CID 6. Site Analysis: Total Area of Site: \_\_\_\_\_\_\_ Acres Area Disturbed: \_\_\_\_\_0.30\_\_ Acres Area to be roofed or paved:

\_\_\_\_\_0.13\_\_\_ Acres Area to be vegetatively stabilized: 0.17 Acres Total Fill:

\_\_\_1200\_\_ Cu. Yds. \_\_\_\_\_600\_\_ Cu. Yds.

Offsite waste/borrow area location: Approved Site With Active Grading Permit

7. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired 9. Additional sediment control must be provided if deemed necessary by the CID. The site and all controls shall be inspected by the contractor weekly; and the next day after each rain event. A written report by the contractor, made available upon request, is part of every inspection and should include 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.g., percent complete) and/or current activitie 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

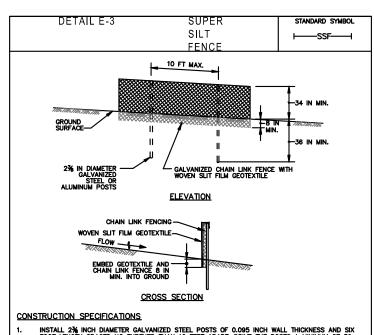
 Maintenance and/or corrective action performed Other inspection items as required by the General Permit for Stormwater Associated with Construction Trenches for the construction of utilities is limited to three pipe lengths or that which can and shall be ack-filled and stabilized by the end of each workday, whichever is shorter 10. Any major changes or revisions to the plan or sequence of construction must be reviewed and approved by the HSCD prior to proceeding with construction. Minor revisions may allowed by the HSCD per the list of H5CD-approved field changes.

11. Disturbance shall not occur outside the L.O.D. A project is to be sequenced so that grading activities begin on one grading unit (maximum acreage of 20 ac. per grading unit) at a time. Work may proceed to a subsequent grading unit when at least 50 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the HSCD. Unless otherwise specified and approved by the HSCD, no more than 30 acres cumulatively may be disturbed at a given time 12. Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a sediment basin or other approved washout structure.

13. 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, and be imbricated at 25' minimun intervals, with lower ends curled uphill by 2' in elevation 15. Stream channels must not be disturbed during the following restricted time periods

• Use I and IP March 1 - June 15

 Use IV March 1 - May 31 16. A copy of this plan, the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT



INSTALL 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (23/6 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.

FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO TH UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MIS SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES. FOLDED. AND STAPLED TO PREVENT SEDIMENT BY PASS. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE A 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SUPER SILT FENCE.

PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWN THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.

U.S. DEPARTMENT OF AGRICULTURE
TURAL RESOURCES CONSERVATION SERVICE
2011 AT-GRADE INLET \_\_\_\_AGIP PROTECTION NONWOVEN GEOTEXTILE -PLAN / CUT AWAY VIEW % TO 1½ IN STONE INLET GRATE CROSS SECTION ONSTRUCTION SPECIFICATIONS USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.

LIFT GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE. PLACE CLEAN % TO 1% INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON THE

# SEQUENCE OF CONSTRUCTION

OBTAIN A GRADING PERMIT. (2 WEEK5) NOTIFY "MISS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION/INSPECTION AT 410-313-1330 AT LEAST 24 HOURS BEFORE STARTING WORK.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

4. COMMENCE INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE, DIVERSION FENCE AND SUPER SILT FENCE. (1 WEEK) 5. WITH PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR, COMMENCE GRADING, CONSTRUCTION OF HOUSE, DRIVEWAY, STORM DRAINS, MICRO-BIORETENTION, DRYWELLS, AND

3. REQUEST A PRE-CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR.

STONE RECHARGE CHAMBER (6 MONTHS) 5b. SWM FACILITY MEDIA SHALL NOT BE INSTALLED UNTIL ALL CONTRIBUTING DRAINAGE AREAS ARE PERMANENTLY STABILIZED. 6. CONTRACTOR SHALL HAUL OFF EXCAVATED MATERIAL FROM SITE AS NECESSARY, TO A DISPOSAL FACILITY APPROVED BY THE SEDIMENT CONTROL INSPECTOR.

STABILIZE ALL DISTURBED AREAS.

OBTAIN APPROVAL OF SEDIMENT CONTROL INSPECTOR PRIOR TO REMOVAL OF SEDIMENT CONTROLS. (3 DAYS)
WITH PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR REMOVE SEDIMENT CONTROLS AND STABILIZE
AREAS THAT ARE DISTURBED BY REMOVAL OF SEDIMENT CONTROLS.

SECTION B-B PROFILE INSTRUCTION SPECIFICATIONS RIPRAP AND STONE MUST CONFORM TO THE SPECIFIED CLASS PREPARE THE SUBGRADE FOR GEOTEXTILE OR STONE FILTER (% TO 1½ INCH STONE FOR 6 INCH MINIMUM DEPTH) AND RIPRAP TO THE REQUIRED LINES AND GRADES, COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED EXTEND GEOTEXTILE AT LEAST 6 INCHES BEYOND EDGES OF RIPRAP AND EMBED AT LEAST 4 INCHES AT SIDES OF THE RIPRAP. WHERE NO ENDWALL IS USED, CONSTRUCT THE UPSTREAM END OF THE APRON SO THAT THE WIDTH IS TWO TIMES THE DIAMETER OF THE OUTLET PIPE, AND EXTEND THE STONE UNDER THE OUTLET BY A MINIMUM OF 18 INCHES. CONSTRUCT APRON WITH 0% SLOPE ALONG ITS LENGTH AND WITHOUT OBSTRUCTIONS. PLACE STON SO THAT IT BLENDS IN WITH EXISTING GROUND. MAINTAIN LINE, GRADE, AND CROSS SECTION. KEEP OUTLET FREE OF EROSION. REMOVE
ACCUMULATED SEDIMENT AND DEBRIS. AFTER HIGH FLOWS INSPECT FOR SCOUR AND DISLODGED
RIPPRAPER MAINT STRATESTARS ARE SPECIMENTIANS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE ATURAL RESOURCES CONSERVATION SERVICE 2011 WARYLAND DEPARTMENT OF ENVIRONMEN WATER MANAGEMENT ADMINISTRATION DETAIL C-9 DIVERSION FENCE **──** DF **──** ELEVATION SECTION CONSTRUCTION SPECIFICATIONS USE 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPAC NO FURTHER THAN 10 FEET APART. THE POSTS DO NOT NEED TO BE SET IN CONCRETE. FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES. SECURE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT TOP, MID SECTION, AND BELOW GROUND SURFACE. EXTEND SHEETING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND EMBED END A MINIMUM OF 8 INCHES INTO GROUND. SOIL STABILIZATION MATTING MAY BE USED IN LIEU OF IMPERMEABLE SHEETING ALONG FLOW SURFACE. WHEN TWO SECTIONS OF SHEETING ADJOIN EACH OTHER, OVERLAP BY 6 INCHES AND FOLD WITH SEAM FACING

PROTECTION

PLAN VIEW

EMBED GEOTEXTILE
LINING A MIN. OF 4 IN
NONWOVEN FOR

SECTION A-A

CHANNEL CROSS SECTION WILL TRANSITION FROM A—A TO B-

ROP1

BEST MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, AND 100-YEAR FLOODPLAINS

1) No excess fill, construction material, or debris shall be stockpiled or stored in nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain. 2) Place materials in a location and manner which does not adversely impact surface or

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTRO

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RESOURCES CONSERVATION SERVICE
2011
WATER MANAGEMENT ADMINISTRATION

subsurface water flow into or out of nontidal wetland buffers, waterways, or the 100-year 3) Do not use the excavated material as backfill if it contains waste metal products, unsightly debris, toxic material, or any other deleterious substance. If additional backfill is

required, use clean material free of waste metal products, unsightly debris, toxic or any other deleterious substance. 4) Place heavy equipment on mats or suitably operate the equipment to prevent damage to nontidal wetlands, nontidal wetland buffers, or waterways, or 100 year floodplain.

5) Repair and maintain any serviceable structure or fill so there is no permanent loss of nontidal wetlands, nontidal wetland buffers, or waterways, or permanent modification of the 100-year floodplain in excess of that lost under the originally authorized structure or fill. 6) Rectify any nontidal wetland buffers, waterways, or 100-year floodplain temporarily

impacted by any construction. 7) All stabilization in the nontidal wetland and nontidal wetland buffer shall consist of the following species; Annual Ryegrass (Lolium Multiflorum), Millet (Setaria italica). Barley (Hordeum sp.), Oats (Uniola sp.), and/or Rye (Secale cereale). These species will allow for the stabilization of the site while also allowing for the voluntary revegetation of natural wetland species. Other non-persistent vegetation may be acceptable, but must be approved by the Nontidal Wetlands and Waterways Division. Kentucky 31 fescue shall not be utilized in wetland or buffer areas. The area should be seeded and mulched to

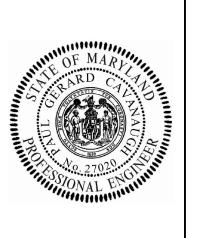
reduce erosion after construction activities have been completed. 8) After installation has been completed, make post -construction grades and elevations the same as the original grades and elevations in temporarily impacted areas. 9) To protect aquatic species, in-stream work is prohibited as determined by the

classification of the stream: Use I waters: In-stream work shall not be conducted during the period March 1 through June 15, inclusive, during any year. Use III waters: In-stream work shall not be conducted during the period October 1 through April 30, inclusive, during any year. Use IV waters: In-stream work shall not be conducted during the period March 1

through May 31, inclusive, during any year. 10) Stormwater runoff from impervious surfaces shall be controlled to prevent the washing of 11) Culverts shall be constructed and any riprap placed so as not to obstruct the movement of debris into the waterway. aquatic species, unless the purpose of the activity is to impound water.

5/16 - //31 | 0.50" THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL 1 THE HOWARD SOIL CONSERVATIONS TRICT Olexander Bratchie 3/6/2023 HOWARD SOIL CONSERVATION DISTRICT DATE FISHER, COLLINS & CARTER, INC. IL ENGINEERING CONSULTANTS & LAND SURVEYORS (410) 461 - 2855

REVISION



# PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 27020, EXPIRATION DATE: 01/25/24.

1/6/2023

Paul G. Cavanaugh

Paul G. Cavanaugh

PAUL G. CAVANAUGH BUILDER/DEVELOPER'S CERTIFICATE 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. Surinder Single 1/6/2023 SIGNATURE OF DEVELOPER DATE

DESIGNER'S CERTIFICATION I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT I REPRESENTS A 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.

DESIGNERS SIGNATURE Paul G. Cavanaugh 27020 MD Registration No.: PRINTED NAME PROFESSIONAL CERTIFICATION P.E., R.L.S., OR R.L.A. (CIRCLE ONE) OWNER / DEVELOPER

1/6/2023

MR. SURINDER SINGH C/O BABBU HOMES LLC 10610 WARBURTON CT. FILICOTT CITY, MARYLAND 21042 410-350-6333

NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE AFTER EACH RAINFALL AND ON A DAILY BASIS. REMOVE SEDIMENT FROM ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON. APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 3/6/2023 Chief, Division of Langue Reverge Repment 3/7/2023 (HdD Edmondson Chief, Developmen 上於所經濟學Division Docusigned by: Date 3/7/2023 Amy Gonan Director - Department 4 of Do Blanging and Zoning PROJECT PHASE PARCEL NO. 2940 SOUTHVIEW ROAD N/A 211 BLOCK NO. ZONE TAX/ZONE | ELEC. DIST. CENSUS TR. 20035/168 R-20 17 SECOND 22 PREVIOUS HOWARD COUNTY FILES: ECP-22-003, WP-07-087

HOWARD HEIGHTS - LOT 26A 2940 SOUTHVIEW ROAD

ZONED: R-20

TAX MAP NO.: 17 GRID NO.: 22 PARCEL NO.: 211

SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SEDIMENT AND EROSION CONTROL NOTES & DETAILS

SCALE: AS SHOWN DATE: SEPTEMBER, 2022 SHEET 4 OF 6

5DP-22-032

