SHEET INDEX SHEET NO. 1 TITLE SHEET 2 SITE DEVELOPMENT PLAN 3 SEDIMENT CONTROL PLAN 4 SEDIMENT CONTROL NOTES & DETAILS 5 NOTES & DETAILS

SITE DEVELOPMENT PLAN

MEADOWRIDGE VIEW

LOTS 1 THRU 8

TAX MAP No. 37 GRID No. 9 PARCEL NOS. 78 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

	ON-LC	T STORM	WATER MANAGEMENT	SUMMARY	
AREA ID.	ESDV REQUIRED CU.FT.	ESDV PROVIDED CU.FT.	REMARK5	QUANTITY REQUIRED CU.FT.	QUANTITY PROVIDED CU.FT.
ON-LOT ROOF/DRIVE	1,336	2,104	DRY WELLS (M-5)	8,975	10,257
TOTAL	1,336	2,104			

GRO55 AREA = 4.129 ACRE5LOD = 1.95 ACRESRCN = 38TARGET Pe = 1.4" PROVIDED Pe = 1.8"

	STORMWATER	MANAGEMENT	PRACTICE5	
LOT No.	ADDRESS	DRYWELL5 M-5 * (NUMBER)	QUANTITY CONTROL MODIFIED M-5 * (NUMBER)	GRASS SWALE M-0 (NUMBER)
1	6201 HUNTERS HOLLOW ROAD	DW 1 AND 2	QC1a & QC1b	-
2	6205 HUNTERS HOLLOW ROAD	DW 3 TO 5	QC2a & QC2b	
3	6209 HUNTERS HOLLOW ROAD	DW 6 AND 7	QC3a & QC3b	_
4	6213 HUNTERS HOLLOW ROAD	DW 8 AND 9	QC4a & QC4b	-
5	6217 HUNTERS HOLLOW ROAD	DW 10 TO 12	QC5a & QC5b	-
6	6218 HUNTERS HOLLOW ROAD	DW 13 AND 14	QC6a & QC6b	-
7	6214 HUNTERS HOLLOW ROAD	DW 15 TO 17	QC7a & QC7b	
8	6210 HUNTERS HOLLOW ROAD	DW 18 TO 20 .	QC8a & QC8b	
	COMMON DRIVE	DW 21	<u>-</u>	_

* DRYWELLS SHALL BE MODIFIED PER DETAIL ON SHEET 5 AND CONNECTED TO QUANTITY FACILITY.

RESIDENTIAL PARKING TABULATION (LOTS 1-0)
TOTAL RESIDENTIAL PARKING REQUIRED: 20 PARKING SPACES SINGLE FAMILY DETACHED: 2 SPACES PER UNIT Ø UNITS X 2 = 16 PARKING SPACES OVERFLOW PARKING 0.5 PER UNIT Ø UNITS X 0.5 = 4 PARKING SPACES
TOTAL RESIDENTIAL PARKING PROVIDED: 28 PARKING SPACES 6 TWO CAR GARAGES WITH 2 SPACES IN EACH DRIVEWAY: 24 SPACES 2 ONE CAR GARAGES WITH ONE SPACE IN EACH DRIVEWAY: 4 SPACES

	Minimum L	of Size Tabl	ulation
Lot No.	Gross Ared	Pipestem Ared	Minimum Lo† Size
2	8,838 Sq. Ft.±	372 Sq. Ft.±	8,466 5q. Ft.±
3	8,684 5q. Ft.±	605 Sq. Ft.±	8,079 5q. Ft.±
4	9,159 5q. Ft.±	832 Sq. Ft.±	8,327 5q. Ft.±
5	7,254 5q. Ft.±	1,014 5q. Ft.±	6,240 Sq. Ft. ±
6	7,611 5q. Ft.±	1,368 5q. Ft.±	6,243 5q. Ft.±
7	8,145 Sq. Ft.±	1,806 5q. Ft.±	6,339 5q. Ft.±
8	10,857 Sq. Ft.±	1,812 5q. Ft.±	9,045 5q. Ft. ±

SITE ANALYSIS DATA CHART

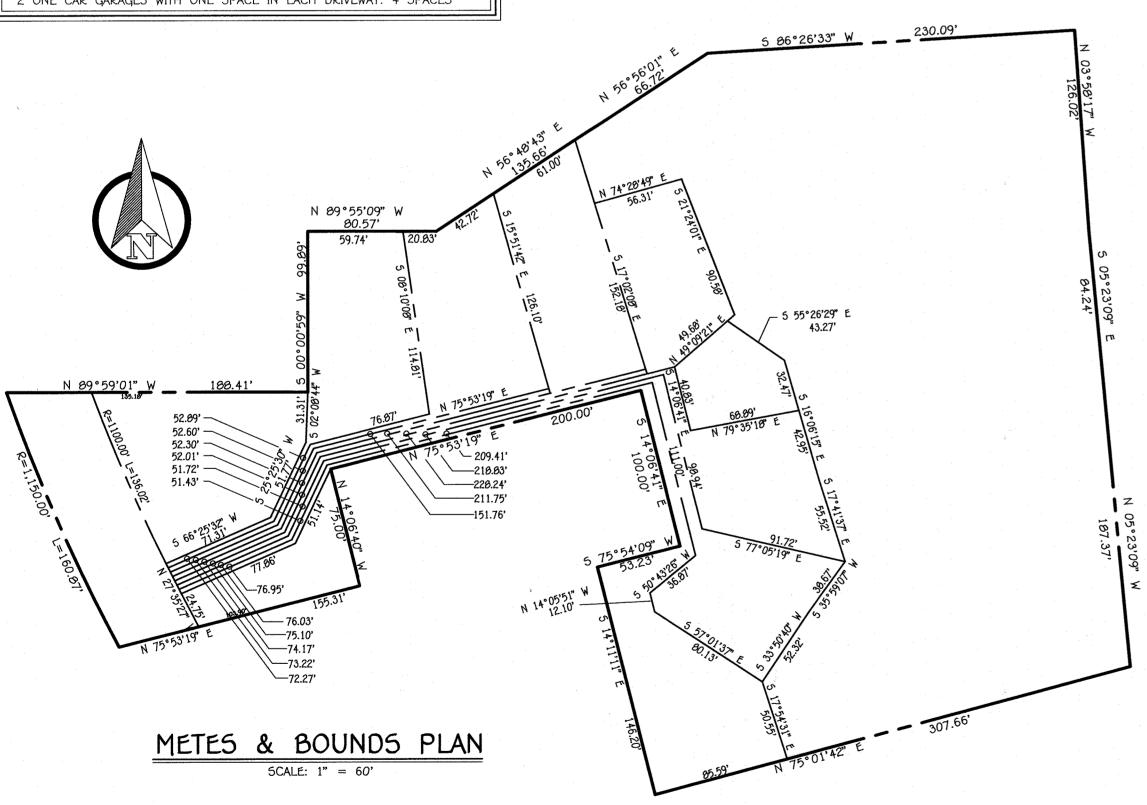
A. TOTAL AREA OF THIS SUBMISSION = 179,059 SQ.FT. OR 4.129 AC. ±. LIMIT OF DISTURBED AREA = 57,935 SQ.FT. OR 1.33 Ac. ± PRESENT ZONING DESIGNATION = R-5C (PER 10/06/2013 COMPREHENSIVE ZONING PLAN) PROPOSED USE: RESIDENTIAL

PREVIOUS HOWARD COUNTY FILES: WP-17-119, F-18-090, 5P-17-009, ECP-17-046 TOTAL AREA OF FLOODPLAIN LOCATED ON-SITE = 0.84 AC TOTAL AREA OF STEEP SLOPES: TOTAL AREA OF SLOPES IN EXCESS OF 15% = 1.05 AC. (0.24 AC. 25% OR GREATER) TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 2.03 AC.

(INCLUDES FLOODPLAIN AREA) TOTAL AREA OF EXISTING FOREST = 3.57 AC. ± TOTAL GREEN OPEN AREA = 3.54 AC. ± TOTAL IMPERVIOUS AREA = 0.59 AC. ±

AREA OF ERODIBLE SOILS = 2.26 AC.

PROPOSED NUMBER OF LOTS = 8 LOTS



DATE



VICINITY MAP 5CALE: 1" = 1200'

BENCHMARK INFORMATION
B.M.#1 - HOWARD COUNTY CONTROL STATION #37HC - HORIZONTAL - NAD '83) N 556,364.071 E 1,375,513.263 ELEVATION = 270.062 - VERTICAL - (NAVD '88)
B.M.#2 - HOWARD COUNTY CONTROL STATION #37EC - HORIZONTAL - (NAD '83) N 561,099.806 E 1,375,580.480 ELEVATION = 346.154 - VERTICAL - (NAVD '88)

- 1. SUBJECT PROPERTY ZONED R-SC PER 10/06/13 COMPREHENSIVE ZONING PLAN. 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS
- 3. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT
- 410-313-1880 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF WORK. 4. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-000-257-7777 AT LEAST 40 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- 6. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 7. THIS SUBDIVISION PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE 2013 ZONING REGULATIONS. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS OR PARCELS MUST COMPLY WITH SETBACKS AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF A BUILDING OR GRADING PERMIT APPLICATION.
- 8. COORDINATES BASED ON NAD'83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 37 HC
 - HOWARD COUNTY MONUMENT NO. 37HC N 556,364.071 E 1,375,513.263 ELEV. (NAVD88) = 270.062
 - HOWARD COUNTY MONUMENT NO. 37EC N 561,099.806 E 1,375,580.480 ELEV. (NAVD86) = 346.154
- 9. OPEN SPACE OBLIGATIONS WERE PREVIOUSLY MET PROVIDED UNDER F-18-090. 10. ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES SHALL BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T-180.
- 11. A NOISE STUDY WAS PROVIDED UNDER F-18-090. 12. THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- 13. WATER IS PUBLIC (CONTRACT NO. 14-5015-D).
- 14. SEWER IS PUBLIC (CONTRACT NO. 14-5015-D)
- 15. SOILS INFORMATION TAKEN FROM SOIL SURVEY MAP NO. 26, HOWARD COUNTY, MARYLAND.
- 16. IN ACCORDANCE WITH SECTION 128.0 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- 17. BOUNDARY OUTLINE BASED ON FIELD RUN SURVEY PERFORMED BY FISHER, COLLINS, & CARTER, INC. DATED MARCH, 2017.
- 10. THE EXISTING SITE INFORMATION/TOPOGRAPHY IS TAKEN FROM ON FIELD RUN SURVEY WITH (MAXIMUM TWO FOOT) CONTOUR INTERVALS
- PREPARED BY FISHER, COLLINS & CARTER, INC. DATED MARCH, 2017 AND SUPPLEMENTED WITH HOWARD COUNTY TOPOGRAPHY. 19. STORMWATER MANAGEMENT WILL BE PROVIDED IN ACCORDANCE WITH, CHAPTER 5 REGULATIONS AND THE NEW HOWARD COUNTY SWM MANUAL ADOPTED ON OR AROUND MAY 4, 2010. SWM FOR THIS PLAN WILL BE THROUGH THE USE OF 37 DRY WELLS (M-5) AND EACH DRYWELL WILL INCLUDE QUANTITY
- CONTROL. THE STORMWATER MANAGEMENT FACILITIES (DRYWELLS) WILL BE PRIVATELY OWNED & MAINTAINED BY THE THE PRIVATE HOMEOWNER OF THE LOT 20. THERE ARE STREAM, WETLANDS, THEIR BUFFERS, AND FLOODPLAIN LOCATED WITHIN THE OPEN SPACE LOTS, BUT NOT ON THE BUILDABLE LOTS. NONE OF THESE ENVIRONMENTAL FEATURES ARE TO BE DISTURBED, EXCEPT FOR THE SEWER MAIN EXTENSION THAT DISTURBS THE WETLANDS.
- ITS BUFFER AND THE STREAM BUFFER AS APPROVED WITH THE FINAL PLAN AS A NECESSARY DISTURBANCE PER SECTION 16.116(c)(1) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. 21. THE DISTURBANCE TO THE 25% OR GREATER ON-SITE STEEP SLOPES IS PERMITTED BECAUSE THE SLOPES ARE LESS THAN 20,000 SF IN
- AREA, IN ACCORDANCE WITH SECTION 16.116(B)(1)(I) OF THE SUBDIVISION REGULATIONS. 22. LANDSCAPE OBLIGATIONS WERE PREVIOUSLY MET PROVIDED UNDER F-18-090.
- 23. A COMMUNITY MEETING WAS CONDUCTED FEBRUARY 23, 2017 FOR THE PURPOSE OF THE DEVELOPER TO PROVIDE INFORMATION TO THE COMMUNITY REGARDING THE PROPOSED RESIDENTIAL DEVELOPMENT AND TO ALLOW THE COMMUNITY TO ASK QUESTIONS AND TO MAKE
- COMMENTS, PER SECTION 16.128(D) OF THE SUBDIVISION REGULATIONS. 24. THE TRAFFIC STUDY WAS PROVIDED UNDER F-18-090.
- 25. THIS DEVELOPMENT HAS MET M.I.H.U. OBLIGATIONS BY A PAYMENT OF A FEE-IN-LIEU TO THE DEPARTMENT OF HOUSING FOR EACH REQUIRED
- 26. THE FOREST CONSERVATION ACT OBLIGATIONS FOR THIS PROJECT HAVE BEEN PREVIOUS MET UNDER F-10-090. A TOTAL OF 1.14 ACRES OF
- FOREST RETENTION HAS BEEN PROVIDED.
- 27. SOIL BORING REPORT FOR THIS PROJECT HAS BEEN PREVIOUSLY PROVIDED UNDER F-18-090.
- 28. THE FOREST STAND DELINEATION AND WETLAND DELINEATION WAS PREVIOUSLY PROVIDED UNDER F-18-090.
- 29. FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND THE ROAD R/W LINE AND NOT THE PIPESTEM LOT DRIVEWAY.
- 30. TRASH AND RECYCLABLES COLLECTION WILL BE AT MEADOWRIDGE ROAD A WITHIN 5' OF THE COUNTY OR STATE ROADWAY.
- 31. NO CEMETERIES OR HISTORIC STRUCTURES EXIST WITHIN THIS SUBDIVISION.
- 32. DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING (MINIMUM) REQUIREMENTS:
- a. WIDTH 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE)
- b. SURFACE SIX (6") INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING.
- c. GEOMETRY MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM OF 45 TURNING RADIUS. d. STRUCTURES (CULVERTS/BRIDGES) CAPABLE OF SUPPORTING 25 GROSS TONS (H 25 LOADING).
- e. DRAINAGE ELEMENTS CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY
- f. STRUCTURE CLEARANCES MINIMUM 12 FEET.
- 9. MAINTENANCE SUFFICIENT TO INSURE ALL WEATHER USE.
- 33. DESIGN MANUAL WAIVER TO ALLOW & LOTS ON A USE-IN-COMMON DRIVEWAY WAS GRANTED ON OCTOBER 30, 2017 SUBJECT TO PROVIDING CURB & GUTTER, STORM DRAIN SYSTEM, AND SWM TO FULLY TREAT ESDV, SAFELY CONVEY THE STORMWATER AND PREVENT FLOODING TO
- 34. AN ALTERNATIVE COMPLIANCE APPLICATION, WP-17-119, WAS APPROVED ON JUNE 1, 2017 REQUESTING ALTERNATIVE COMPLIANCE TO SECTION
- 16.1205(A)(7) TO ALLOW THE REMOVAL OF TWO (2) SPECIMEN TREES. APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS: 1. THE REMOVAL OF THE TWO (2) SPECIMEN TREES (RED MAPLES) WILL REQUIRE MITIGATION WITH THE PLANTING OF 2:1 REPLACEMENT TREES

(4 TOTAL) WITH A MINIMUM 3" CALIPER NATIVE PLANT SPECIES AS PART OF THIS SUBDIVISION'S LANDSCAPING PLAN. SURETY FOR THE FOUR

- SHADE TREES WILL BE INCORPORATED INTO THE LANDSCAPE SURETY WITH THE FINAL PLAN. 2. PROVIDE A NOTE ON ALL SUBSEQUENT SUBDIVISION AND SITE DEVELOPMENT PLANS REGARDING THIS ALTERNATIVE COMPLIANCE PETITION
- APPROVAL. THIS NOTE SHALL INCLUDE THE REGULATION SECTIONS PETITIONED, THE DATE OF THE ALTERNATIVE COMPLIANCE APPROVAL, AND
- 35. THIS PLAN IS FOR HOUSE SITING AND GRADING ONLY, IMPROVEMENTS SHOWN WITHIN THE RIGHTS-OF-WAY OF THIS S.D.P. ARE NOT USED FOR CONSTRUCTION. FOR CONSTRUCTION SEE APPROVED ROAD CONSTRUCTION PLANS F-10-090.
- 36. CONTRACTOR WILL CHECK SEWER HOUSE CONNECTION ELEVATION AT EASEMENT LINE PRIOR TO CONSTRUCTION.
- 37. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(5), OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS.
- 38. THE 65 DE NOISE LINE ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDERS. AND FUTURE RESIDENTS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPT. OF HOUSING AND URBAN DEVELOPMENT.
- 39. EXISTING WATER IS PUBLIC (CONTRACT NO. 14-1020-D & 44-1505-D) EXISTING SEWER IS PUBLIC (CONTRACT NO. 14-1020-D)
- 40. SHC ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE. 41. FOR DRIVEWAY ENTRANCE DETAILS, REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6.05.

ADDRESS CHART										
LOT #	STREET ADDRESS									
1	6201 HUNTERS HOLLOW ROAD									
2	6205 HUNTERS HOLLOW ROAD									
3	6209 HUNTERS HOLLOW ROAD									
4	6213 HUNTERS HOLLOW ROAD									
5	6217 HUNTERS HOLLOW ROAD									
6	6210 HUNTERS HOLLOW ROAD									
7	6214 HUNTERS HOLLOW ROAD									
8	6210 HUNTERS HOLLOW ROAD									

OWNERS Patapsco Builders, LLC 1511 Ritchie Highway, Suite 305 240-375-1052 BUILDER Burkard Homes. LLC Tim Burkard 1511 Ritchie Highway, Suite 305 240-375-1052 FISHER, COLLINS & CARTER, INC. ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2055

NO.

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21406 EXPIRATION DATE: 07/14/2023.



APPROVED: DEPARTMENT OF PLANNING AND ZONING Department of Planning and Zoning thief, Division of Land Development 9.22.21 Chief, Development Engineering Division PROJECT SECTION PARCEL NO. MEADOWRIDGE VIEW BLOCK NO. ZONE TAX/ZONE ELEC. DIST. CENSUS TR. 601103 R-5C 25331-25333

TITLE SHEET

MEADOWRIDGE VIEW

LOTS 1 THRU 8

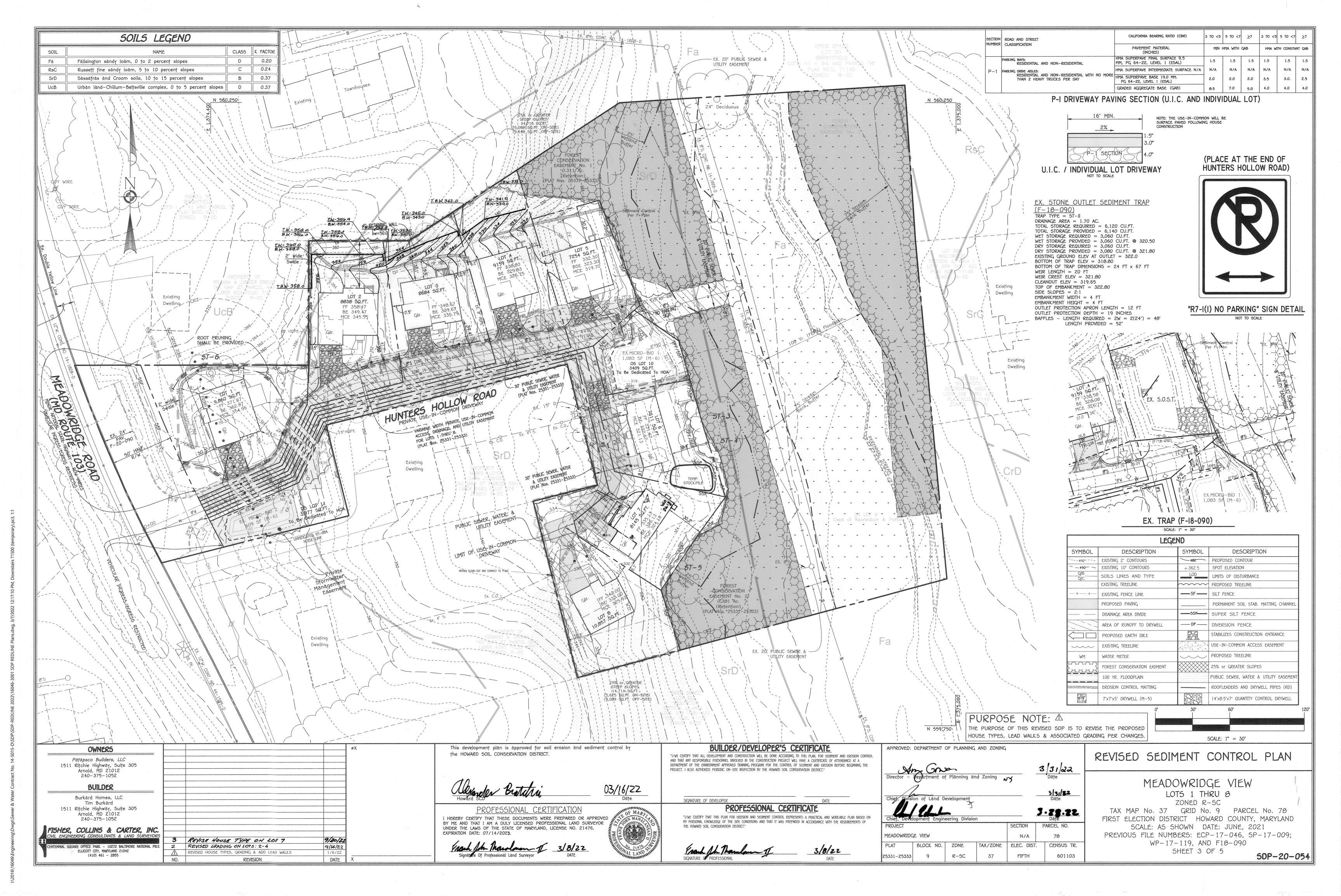
ZONED R-5C TAX MAP No. 37 GRID No. 9 PARCEL No. 78

FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: JUNE, 2021 PREVIOUS FILE NUMBERS: ECP-17-046, SP-17-009;

SHEET 1 OF 5

WP-17-119, AND F18-090

5DP-20-054



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

A. Soil Preparation

à. Seedbed preparation consists of loosening soil to à depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such às 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.

2. Permanent Stabilization a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions

required for permanent vegetative establishment are: i. Soil pH between 6.0 and 7.0. Soluble salts less than 500 parts per million (ppm) iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus

clay) to provide the capacity to hold a moderate amount of moisture. An exception: if lovegrass will be planted, then a sandy 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

o. 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

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 leavin 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.

B. Topsoiling

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

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

used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders. stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2 inches in diameter

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.

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

6. Topsoil Application

 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.

. Topsoil must not be placed if the topsoil or subsoil is in a trozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

C. Soil Amendments (Fertilizer and Lime Specifications)

sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses. 2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriat pproval 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 90 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 o

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.

18-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

The application of seed and mulch to establish vegetative cover

o protect disturbed soils from erosion during and at the end of construction

<u>Conditions Where Practice Applies</u>
To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

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 aboratory. 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 guality 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.
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 cook as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less

d. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

a. Dry Seeding: This includes use of conventional drop or broadcast spreaders. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3, or

site-specific seeding summaries. ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with weighted roller to provide good seed to soil contact.

b. Drill or Cultipacker Seeding: Mechanized 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 soil covering. Seedbed must be firm after planting.

ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.

c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).

i. If fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P O (phosphorus), 200 pounds per acre; K O (potassium), 200 pounds per acre. ii. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding. iii. Mix seed and fertilizer on site and seed immediately and without interruption.

iv. When hydroseeding do not incorporate seed into the soil.

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 uniform fibrous physical

STANDARD STABILIZATION NOTE

B.) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE A.) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES,

WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry. ii. WCFM, including dye, must contain no germination or growth inhibiting factors.
iii. WCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will

remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotter-like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.

iv. WCFM material must not contain elements or compounds at concentration levels that will by phyto-toxic.

v. WCFM must conform to the following physical requirements: fiber length of approximately 1 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 miximum.

90 percent minimum. a. Apply mulch to all seeded areas immediately after seeding.

b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of

1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre.

c. Wood cellulose fiber used as mulch must be applied to a net dry weight of 1500 pounds per acre. Mix the wood-

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 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. ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of 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 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.

TEMPORARY SEEDING NOTES (B-4-4)

To stabilize disturbed soils with vegetation for up to 6 months.

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.

l. 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 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

O. 94111	sir sidi	111120	ששו בו ווטווןג	juneu	oulaid	ie oj c	1 Seer	mig :	seuson,	appil	2660	ana	majori	oliam.
mulch	alone	дs	prescribed	in 5	ection	B-4-3	3.A.1.b	and	mainta	in unt	il the	next	seeding	sedson.
	Temporary Seeding Summary													
														,

ardiness Zon eed Mixture	ne (from Figure B. (from Table B.1):	Fertilizer Rate (10-20-20)	Lime Rațe		
5pecies	Application Rate (lb/ac)	Seeding Dațes	Seeding Depths		
BARLEY	96	3/1 - 5/15.	1"	436 lb/ac	2 tons/ac
OAT5	72	8/15 - 10/15	1"	(10 lb/ 1000 sf)	(90 lb/ 1000 sf)
RYE	112		1"		

CEDING NOTES (D-4-5) A. Seed Mixtures

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

General Use

a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will

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. Irrigatio

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 Perennia Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square 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: 1 1/2 to 3

Select turforass 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 quarantee 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 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 moving of grasses will pose no difficulty. e. If 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.

Permanent Seeding Summary

DATE

		e (from Figure B. from Table B.3):	3): <u>6b</u>	Fertiliz	Lime Rate			
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P ₂ O ₅	K ₂ 0	
8	TALL FESCUE	100	Mar. 1-May 15 Aug. 15-Oct. 15	1/4-1/2 in.	45 lbs. per acre	90 lb/ac (2 lb/	(2 lb/	2 tons/ac (90 lb/
					(1.0 lb/ 1000 sf)	1000 sf)	1000 sf)	1000 sf)

B. Sod: To provide quick cover on disturbed areas (2:1 grade or flatter).

Class of turforass 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 fo % inch, plus or minus % 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. 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 10 percent of the section. d. Sod must not be harvested or transplanted when moisture content (excessively dry of wet) may adversely affect its survival. e, 5od must be harvested, delivered, and installed within a period of 36 hours. 5od not transplanted within this period must be approved by an agronomist or soil scientist prior to its installation.

a. During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying the sod. 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.

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 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.

 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. After the first week, sod watering is required as necessary to maintain adequate moisture conten c. Do not mow until the sod is firmly rooted. No more than 1/3 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.

B-4-0 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREAS A 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.

 $\frac{Conditions\ \textit{Where Practice Applies}}{\text{Stockpile areas are utilized when it is necessary to salvage and store soil for later use.}}$ 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. 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 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.

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 HOWARD SOIL CONSERVATION DISTRICT (HSCD)

STANDARD SEDIMENT CONTROL NOTES 1. A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID) 410-313-1855 after the future LOO and protected areas are marked clearly in the field. A minimum of 40 hour notice to CID must be given at the following stages: . Prior to the start of earth disturbance, b. Upon completion of the installation of perimeter erosion and sediment controls, but before

proceeding with any other earth disturbance or grading, c. Prior to the start of another phase of construction or opening of another grading unit, d. Prior to the removal or modification of sediment control practices. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made. Other related state and federal permits shall be referenced, to ensure coordination and to avoid conflicts with this plan. 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 SEDIMENT CONTROL, and revisions thereto.

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.

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. $B-4-\theta$) 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. $B-4-\theta$).

All sediment control structures are to remain in place, and are to be maintained in operative condition until permission for their remova has been obtained from the CID.

Total Area of Site: Area Disturbed: 1.33 Acres
Area to be roofed or paved: 0.2 Acres Area to be vegetatively stabilized: _____1.1

Quantities provided are for the reviewing agency only. Contractor is responsible for performing construction take-offs. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of

8. Additional sediment control must be provided, if deemed necessary by the CID. The site and all controls shall be inspected by the every inspection and should include:

Weather information (current conditions as well as time and amount of last recorded precipitation) Brief description of project's status (e.g., percent complete) and/or current activities Evidence of sediment discharges Identification of plan deficiencies

Identification of sediment controls that require maintenance Identification of missing or improperly installed sediment controls Compliance status regarding the sequence of construction and stabilization requirements Monitoring/sampling Maintenance and/or corrective action performed

Trenches for the construction of utilities is limited to three pipe lengths or that which can and shall be back-filled and stabilized by the end of each workday, whichever is shorter. 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 CID per the list of HSCD-approved field changes.

Disturbance shall not occur outside the L.O.D. A project is to be sequenced so that grading activities begin on one grading unit

Other inspection items as required by the General Permit for Stormwater Associated with Construction Activities (NPDES, MDE).

uisturbance snall 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.

Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a sediment basin or other approved 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 minimum intervals, with lower ends curled

uphill by 2' in elevation. 15. Stream channels must not be disturbed during the following restricted time periods (inclusive): Use II and IIP March 1 - June 15
Use III and IIIP October 1 - April 30

Use IV March 1 - May 31 A copy of this plan, the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and associated permits shall be on-site and available when the site is active.

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.

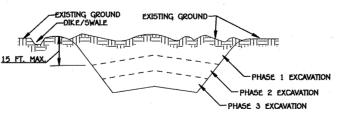
Conditions Where Practice Applies Any cut or fill slope greater than 15 feet in height. This practice also applies to stockpiles.

A. Incremental Stabilization - Cut Slopes 1. Excavate and stabilize cut slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all cut slopes as the work progresses. 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 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

15/95/20



This development plan is approved for soil erosion and sediment control by

PROFESSIONAL CERTIFICATION

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED

BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR

UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476,

the HOWARD SOIL CONSERVATION DISTRICT.

EXPIRATION DATE: 07/14/2023.

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. 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. 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 b. 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. . Place Phase 1 fill, prepare seedbed, and stabilize. 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 application of temporary stabilization.

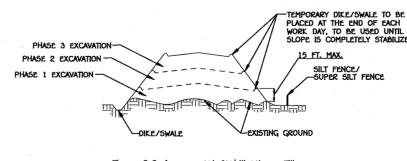
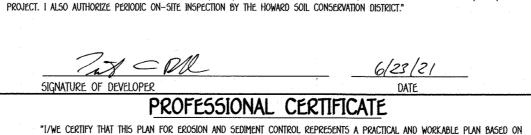


Figure B.2: Incremental Stabilization - Fill



"I/WE CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF

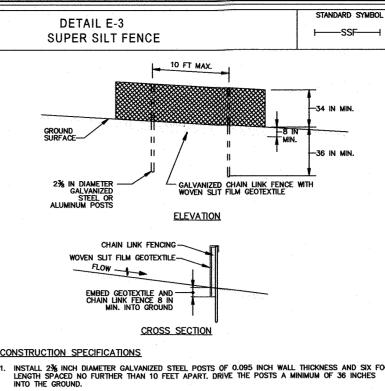
BUILDER/DEVELOPER'S CERTIFICATE

and that any responsible personnel involved in the construction project will have a certificate of attendance at a DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, FOR SEDIMENT AND EROSION CONTROL

PROJECT 6/23/21 25331-25333

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION 2011 APPROVED: DEPARTMENT OF PLANNING AND ZONING ector / Department of Planning and Zoning Director 7 11/8/21 , Division of Land Development 9.22.21 PARCEL NO. SECTION N/A 78 BLOCK NO. ZONE TAX/ZONE ELEC. DIST. CENSUS TR. R-5C 37 601103



TANDARD SYMBOL

ST-II

MAXIMUM DRAINAGE AREA = 10 ACRES

→ FLOW

TOP OF EMBANKMENT

4 FT MAX. HEIGHT

──4 TO 7 IN STONI

-19 IN MIN. CLASS

EXCAVATE FOR REQUIRED WET STORAGE

DETAIL G-1-2 STONE/RIPRAP OUTLET

DISCHARGE TO STABLE AREA OR RECEIVING CHANNEL

19 IN MIN. THICKNESS OF CLASS 1 RIPRAP

APRON 10 FT MIN.

NONWOVEN GEOTEXTILE

. MAKE ALL CUT AND FILL SLOPES 2:1 OR FLATTER.

CONSTRUCTION SPECIFICATIONS

OUTLET ELEVATION-

CREST ELEVATION-

SEDIMENT TRAP ST-II

ISOMETRIC VIEW

4 TO 7 IN STONE

SECTION A-A

SECTION B-B

CONSTRUCT TRAP IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE AVOIDED.

USE FILL MATERIAL FREE OF ROOTS, WOODY VEGETATION, OVERSIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL FOR THE EMBANKMENT.

CONSTRUCT TOP OF EMBANKMENT 1 FOOT MINIMUM ABOVE WEIR CREST. COMPACT THE EMBANKMENT BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.

PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, OVER THE BOTTOM AND SIDES OF OUTLET AND APRON PRIOR TO PLACEMENT OF RIPRAP. OVERLAP SECTIONS OF GEOTEXTILE AT LEAST 1 FOOT WITH THE SECTION NEARER TO THE TRAP PLACED ON TOP. EMBED GEOTEXTILE AT LEAST 6 INCHES INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.

USE CLEAN 4 TO 7 INCH RIPRAP TO CONSTRUCT THE WEIR. USE CLASS I RIPRAP FOR THE APRON. USE OF RECYCLED CONCRETE EQUIVALENT IS ACCEPTABLE.

CONSTRUCT AND MAINTAIN THE OUTLET ACCORDING TO APPROVED PLAN, AND IN SUCH A MANNER THAT EROSION AT OR BELOW THE OUTLET DOES NOT OCCUR.

11. REMOVE SEDIMENT AND RESTORE TRAP TO ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO CLEANOUT ELEVATION (50% OF WET STORAGE DEPTH). DEPOSIT REMOVED SEDIMENT IN AN APPROVED AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE. KEEP POINTS OF INFLOW AND OUTFLOW AS WELL AS INTERIOR OF THE TRAP FREE FROM EROSION, AND REMOVE ACCUMULATED DEBRIS. MAINTAIN EMBANKMENTS TO CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. REMOVE ANY TREES, BRUSH, OR OTHER WOODY VEGETATION GROWING ON EMBANKMENT OR NEAR PRINCIPAL SPILLWAY. MAINTAIN LINE, GRADE, AND CROSS SECTION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL FROSION AND SEDIMENT CONTROL

2. WHEN DEWATERING TRAP, PASS REMOVED WATER THROUGH AN APPROVED SEDIMENT CONTROL

3. UPON REMOVAL, GRADE AND STABILIZE THE AREA OCCUPIED BY TRAP.

PLACE 1 FOOT OF CLEAN 1/4 TO 11/2 INCH STONE OR EQUIVALENT RECYCLED CONCRETE ON THE UPSTREAM FACE OF THE WEIR.

CLEAR, GRUB, AND STRIP ANY VEGETATION AND ROOT MAT FROM THE AREA UNDER THE EMBANKMENT

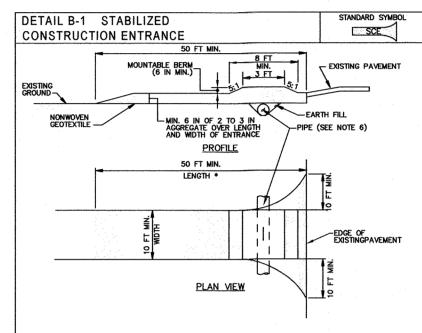
_4 FT MIN. WIDTH

FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.

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

5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.

REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE. MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL 2011 MARYLAND DEPARTMENT OF ENVIRONMEN
WATER MANAGEMENT ADMINISTRATION

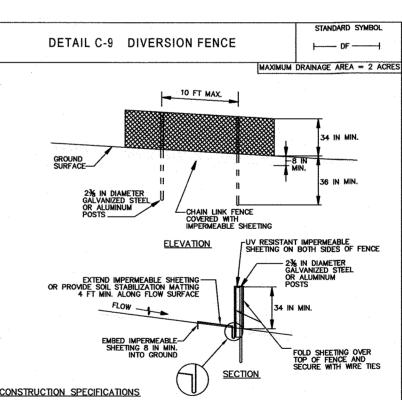


PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN, VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.

2. 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 BERM 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 DRAINAG 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 I. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOU 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 MAK OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL



USE 42 INCH HIGH, 9 GAUGE OR THICKER CHAIN LINK FENCING (2% INCH MAXIMUM OPENING). . USE 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED 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.

 EXTEND SHEETING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND EMBED END A MINIMUM OF 8 INCHES INTO GROUND, SOIL STABILIZATION MATTING MAY BE USED IN LIEU OF IMPERMEABLE SHEETING ALONG FLOW SURFACE. WHEN TWO SECTIONS OF SHEETING ADJOIN EACH OTHER, OVERLAP BY 6 INCHES AND FOLD WITH SEAM FACING DOWNGRADE.

KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE. REPLACE IMPERMEABLE SHETING IF TORN. IT UNDERWINING OCCURS, REINSTALL FENCE. MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE EACH

RAINFALL AND ON A DAILY BASIS.

SEDIMENT CONTROL NOTES & DETAILS

MEADOWRIDGE VIEW

TAX MAP No. 37 GRID No. 9 PARCEL No. 78 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: JUNE, 2021 PREVIOUS FILE NUMBERS: ECP-17-046, SP-17-009;

5DP-20-054

STANDARD SYMBOL

⊢—SF——I

_36 IN MIN. FENCE POST LENGTH DRIVEN MIN. 16 IN INTO GROUND

L8 IN MIN. DEPTH

STAPLE ----

16 IN MIN. HEIGHT OF WOVEN SLIT FILM GEOTEXTIL

STANDARD SYMBOL

(* INCLUDE SHEAR STRESS

smc - *0.3 ib/f

SILT FENCE

ELEVATION

CROSS SECTION

JOINING TWO ADJACENT SILT FENCE SECTIONS (TOP VIEW)

USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.

PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENPORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.

EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.

WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.

EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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

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

5. SECURE MATTING USING STEEL STAPLES OR WOOD STAKES. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 ½ INCHES MODE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPE A'THE BOTTOM.

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

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

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

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

IF SPECIFIED BY THE DESIGNER OR MANUFACTURER AND DEPENDING ON THE TYPE OF MAT BEING INSTALLED ONCE THE MATTING IS KEYED AND STRALED IN PLACE, FILL THE MAT VOIDS WITH TOP SOIL OR GRANULAR MATERIAL AND LIGHTLY COMPACT OR ROLL TO MAXIMIZE SOIL/MAT CONTACT WITHOUT CRUSHING MAT.

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

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE VATURAL RESOURCES CONSERVATION SERVICE 2011 WARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

. SHEER STRESS = $62.4 \text{ LBS/FT}^3 \times 0.13 \text{ FT} \times 0.04 = 0.3 \text{ LBS/FT}^2$ (1); $62.4 \text{ LBS/FT}^3 \times 0.12 \text{ FT} \times 0.04 = 0.3 \text{ LBS/FT}^2$ (2);

Q(3) = (0.26)(6.6)(0.30) = 0.5 CF5

1. OBTAIN A GRADING PERMIT AND HOLD PRE-CONSTRUCTION MEETING WITH COUNTY

2.NOTIFY "MISS UTILITY" AT LEAST 40 HOURS BEFORE BEGINNING ANY WORK AT

1-800-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OD CONSTRUCTION

MAINTENANCE FOR TRAP CONSTRUCTED UNDER F-18-090. BEGIN HOUSE

AND THE HOUSE FOR LOT 5 CAN BE CONSTRUCTED.

FINE GRADE EACH INDIVIDUAL LOT. (1 WEEK PER LOT)

INSPECTION AT 410-313-1330 AT LEAST 24 HOURS BEFORE STARTING WORK.

3.INSTALL STABILIZED CONSTRUCTION ENTRANCE AND PERIMETER CONTROLS, INCLUDING

SILT FENCE, DIVERSION FENCE & SUPER SILT FENCE. CONTRACTOR SHALL PROVIDE

4.CONSTRUCT HOUSES AND DRIVEWAYS AND INSTALL WHC AND SHC. (6 MONTHS PER

5.INSTALL TEMPORARY SEEDING AND PERMANENT SOIL STABILIZATION MATTING WHERE

6. INSTALL ROOF LEADERS AND DRYWELLS UPON CONSTRUCTION OF INDIVIDUAL HOUSES.

7.INSTALL PERMANENT SEEDING FOLLOWING FINE GRADING ON EACH LOT. (1 DAY PER

8.WITH APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND FOLLOWING ALL FINAL

CONTRIBUTING AREAS TO THE SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED. (3

GRADES AND STABILIZATION: REMOVE ALL PERIMETER CONTROLS WHEN ALL

LOT) NOTE: LOT 5 SHALL BE DELAYED UNTIL LOTS 1 THRU 4 HAVE BEEN STABILIZED.

WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE TRAP MAY BE REMOVED

 $62.4 \text{ LBS/FT}^3 \times 0.22 \text{ FT} \times 0.02 = 0.3 \text{ LBS/FT}^2$ (3)

Q(1) = (0.26)(6.6)(0.12) = 0.2 CF5; Q(2) = (0.26)(6.6)(0.11) = 0.2 CF5;

VELOCITY (10 YR STORM) = 0.5 FP5 (1) & 0.5 FP5 (2) & 0.5 FP5 (3)

2011

PERMANENT SOIL STABILIZATION

MATTING CHANNEL APPLICATION

CENTER TO CENTER

DETAIL E-1

(4)

CONSTRUCTION SPECIFICATIONS

OWNERS

Patapsco Builders, LLC 1511 Ritchie Highway, Suite 305 Arnold, MD 21012 240-375-1052

AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1).

BUILDER Burkard Homes, LLC

Tim Burkard 1511 Ritchie Highway, Suite 305 Arnold, MD 21012 240-375-1052

FISHER, COLLINS & CARTER, INC. IVIL ENGINEERING CONSULTANTS & LAND SURVEYORS NTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIK

ELLICOTT CITY, MARYLAND 21042

(410) 461 - 2055

NO.

Chief, Development Engineering Division MEADOWRIDGE VIEW

LOTS 1 THRU 8 ZONED R-5C

SEQUENCE OF CONSTRUCTION

INSPECTOR. (2 WEEKS)

CONSTRUCTION. (3 DAYS)

NECESSARY. (1 DAY PER LOT)

WP-17-119, AND F18-090 SHEET 4 OF 5

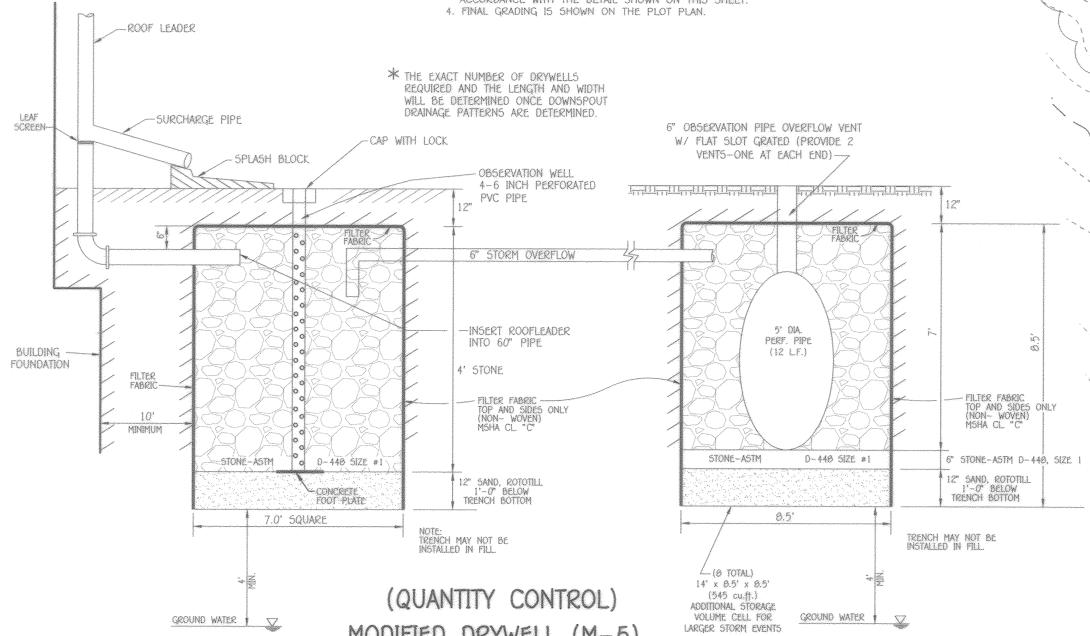
OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DRY WELLS (M-5)

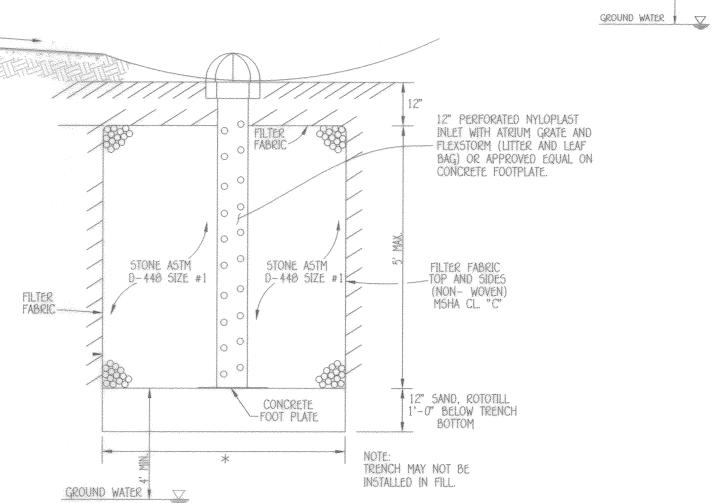
- A. THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS AND AFTER EVERY HEAVY STORM EVENT.
- B. THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO ENSURE TRENCH DRAINAGE.
- C. THE OWNER SHALL MAINTAIN A 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.

STORMWATER NOTES

- 1. STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE
- 2. MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS. 3. DRYWELLS SHALL BE PROVIDED AT LOCATIONS WHERE THE
- LENGTH OF DISCONNECTION IS LESS THAN 75' AT 5%. THE SIZE AND CONSTRUCTION OF THE DRYWELL SHALL BE IN
- ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET





MODIFIED DRY WELL DETAIL (M-5) DRYWELL # 21 NOT TO SCALE

MODIFIED DRYWELL (M-5)

GUTTER DRAIN FILTER DETAIL

NOT TO SCALE

QUANTITY CONTROL DRY WELL CHART Lx Wx D TOPEL. QC1a | 15.5'x 8.5' x 8.5' 355.0 QC1b |15.5'x 8.5' x 8.5' 360.0 QC2a |15.5'x 8.5' x 8.5' 351.0 QC2b 15.5'x 8.5' x 8.5' 350.0 QC3a | 15.5'x 8.5' x 8.5' 342.0 QC3b |15.5'x 8.5' x 8.5' 339.0 QC4a 15.5'x 8.5' x 8.5' 331.0 QC4b |15.5'x 8.5' x 8.5' 330.5 QC5a 15.5'x 8.5' x 8.5' 325.0 QC5b 15.5'x 8.5' x 8.5' 321.0 QC6a 15.5'x 8.5' x 8.5' 316.0 QC6b |15.5'x 8.5' x 8.5' 316.0 QC7a 15.5'x 8.5' x 8.5' 317.0 QC7b |15.5'x 8.5' x 8.5' 321.0 QC8a | 15.5'x 8.5' x 8.5' 322.0 QC8b 15.5'x 8.5' x 8.5' 325.5

to / SEDIMENT T.B.W-358.01 1/21 ACRES± 33.0#4 5Q.FT.± F-18-090 F-18-090 Existing F-18-090 DA to DF#2/Ex. 1.67 ACRES ± $c = 0.31 \ (Q = 1.1cfs)$ Existing Owelling DRAINAGE AREAS TO DIVERSION FENCE SCALE: 1" = 30'

OWNERS Pățăpsco Builders, LLC 1511 Ritchie Highway, Suite 305 Arnold, MD 21012 240-375-1052

BUILDER

Burkard Homes, LLC Tim Burkard 1511 Ritchie Highway, Suite 305

Arnold, MD 21012 240-375-1052 FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS ELLICOTT CITY, MARYLAND 21042

REVISED GRADING ON LOTS: 2-4 ADD TOP ELEVATION TO DRY WEEL CHARTS 9/14/22 REVISED HOUSE TYPES, GRADING & ADD LEAD WALKS DATE REVISION

PURPOSE NOTE: A

THE PURPOSE OF THIS REVISED SDP IS TO REVISE THE PROPOSED HOUSE TYPES, LEAD WALKS & ASSOCIATED GRADING PER CHANGES.

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 07/14/2023.

3 31/22 tor - Department of Planning and Zoning MY 3/3//22 Chief, Division of Land Development 3.28.78 SECTION PARCEL NO. MEADOWRIDGE VIEW N/A BLOCK NO. ZONE TAX/ZONE ELEC. DIST. CENSUS TR.

37

FIFTH

601103

R-5C

25331-25333

APPROVED: DEPARTMENT OF PLANNING AND ZONING

REVISED NOTES & DETAILS

MEADOWRIDGE VIEW

LOTS 1 THRU 8

ZONED R-5C TAX MAP No. 37 GRID No. 9 PARCEL No. 78 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: JUNE, 2021

PREVIOUS FILE NUMBERS: ECP-17-046, SP-17-009; WP-17-119, AND F18-090 SHEET 5 OF 5

5DP-20-054