

MATERIALS & SPECIFICATIONS FOR DRY WELLS

MATERIAL	SPECIFICATION	SIZE	NOTES:
GEOTEXTILE (CLASS "C")	AASHTO M 43	N/A	PE TYPE 1 NONWOVEN
GRAVEL	AASHTO M 278	1 1/2" TO 2 1/2"	
UNDERDRAIN PIPING	F758, TYPE PS28 OR AASHTO M-278	4" TO 6" RIGID SCH.40 PVC, SDR33 OR HDPE	3/8" PERF. @ 6" O/C, 4 HOLES PER ROW; MINIMUM OF 2" OF GRAVEL OVER PIPES.
SAND	AASHTO M-6 OR ASTM-C-33	.02" TO .04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE (AASHTO) #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATE OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NT ROCK DUST CAN BE USED FOR SAND.

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

- THE MONITORING WELLS AND STRUCTURES SHALL BE INSPECTED ON A QUARTERLY BASIS AND AFTER EVERY LARGE STORM EVENT.
- WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS SHALL BE RECORDED OVER A PERIOD OF SEVERAL DAYS TO INSURE TRENCH DRAINAGE.
- A LOG BOOK SHALL BE MAINTAINED TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
- WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN THE 72 HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
- THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
- 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.

Lot No.	Drywell No.	Length (ft)	Width (ft)	Stone Depth (ft)	Grade	Top of Stone	Bottom of Stone	Existing Ground	Ground Water
65	DW-1	10.00	8.00	3.00	269.9	268.9	265.9	270.50	261.50
65	DW-2	10.00	8.00	3.00	266.2	265.2	262.2	266.50	257.50
65	DW-3	9.00	8.00	3.00	263.5	262.5	259.5	264.50	255.50
66	DW-4	10.00	8.00	3.00	266.8	265.8	262.8	267.00	258.00
66	DW-5	10.00	8.00	3.00	264.0	263.0	260.0	265.00	256.00
66	DW-6	9.00	8.00	3.00	262.0	261.0	258.0	263.00	254.00

* GROUNDWATER ELEVATION BASED ON GEOTECH REPORT AT MINIMUM 9' BELOW EXISTING GROUND SURFACE.

HIGH RIDGE PARK, LOTS 65 & 66

DATE: 09/14/20
 JOB NO: 3009

Drywell Designation	Impervious Area (SF)	Drainage Area (SF)	Volumetric Runoff	ESDv Required (CF)	Length (ft)	Width (ft)	Depth (ft)	Volume Provided (CF)	Full ESDv Provided?	Pe
DW-1	733	733	0.95	92.85	10.00	8.00	3.00	96.00	yes	1.65
DW-2	751	751	0.95	95.13	10.00	8.00	3.00	96.00	yes	1.61
DW-3	654	654	0.95	82.84	9.00	8.00	3.00	86.40	yes	1.67
DW-4	733	733	0.95	92.85	10.00	8.00	3.00	96.00	yes	1.65
DW-5	751	751	0.95	95.13	10.00	8.00	3.00	96.00	yes	1.61
DW-6	654	654	0.95	82.84	9.00	8.00	3.00	86.40	yes	1.67
TOTAL	4276	4276		542				557		1.65

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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 THE HOWARD SOIL CONSERVATION DISTRICT.

Cl. Malagan 11-18-20
 ENGINEER DATE

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

J. M. R. 11/17/20
 DEVELOPER DATE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Yuh. K. Sabuton 11/09/20
 HOWARD SCD DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chad Clark 12/14/20
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Chad Clark 12-4-20
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Chad Clark 12-16-20
 DIRECTOR DATE



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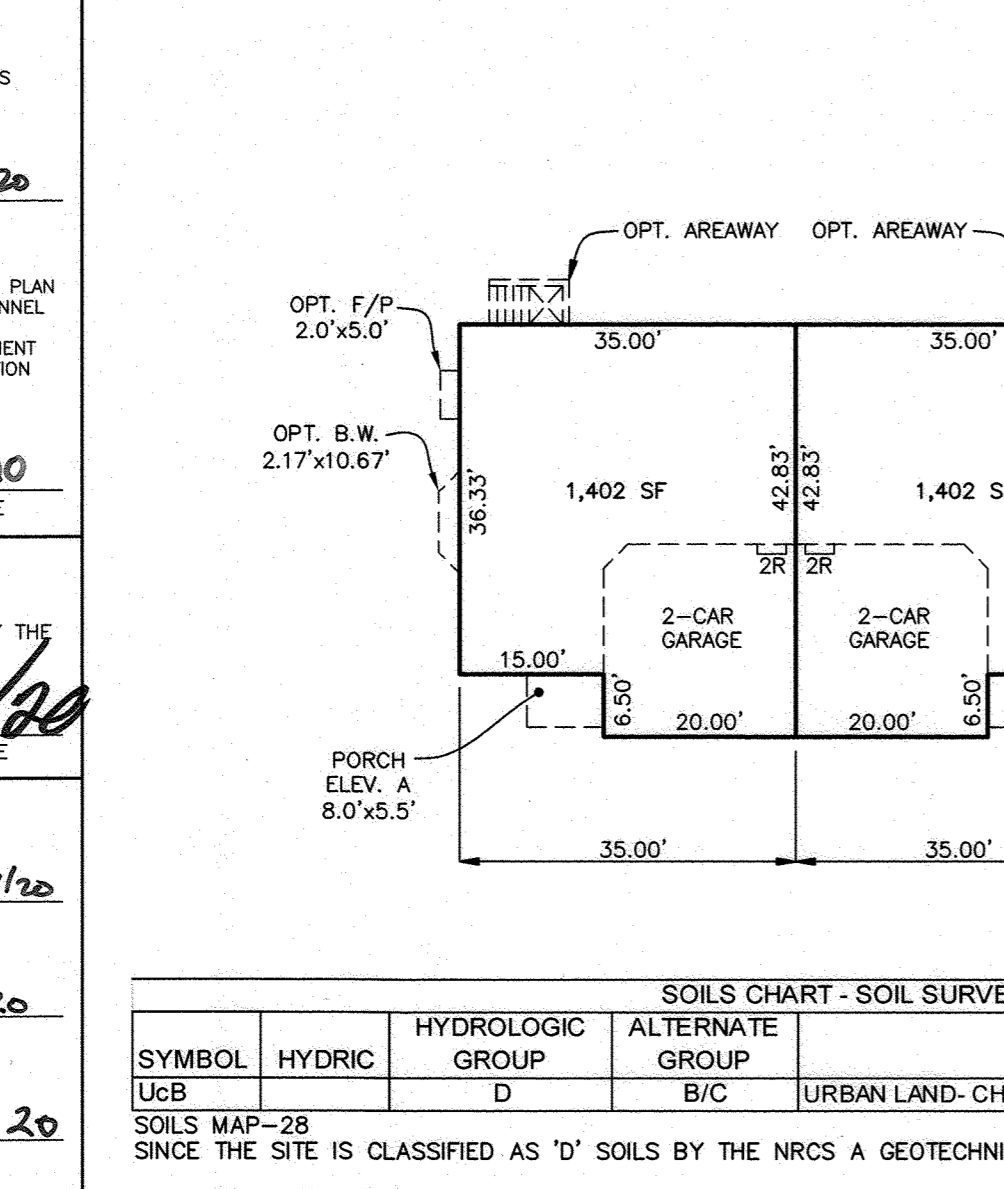
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HIGH RIDGE PARK, LOTS 65 & 66

DATE: 09/14/20
 JOB NO: 3009

Drywell Designation	Impervious Area (SF)	Drainage Area (SF)	Volumetric Runoff	ESDv Required (CF)	Length (ft)	Width (ft)	Depth (ft)	Volume Provided (CF)	Full ESDv Provided?	Pe
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DW-5	751	751	0.95	95.13	10.00	8.00	3.00	96.00	yes	1.61
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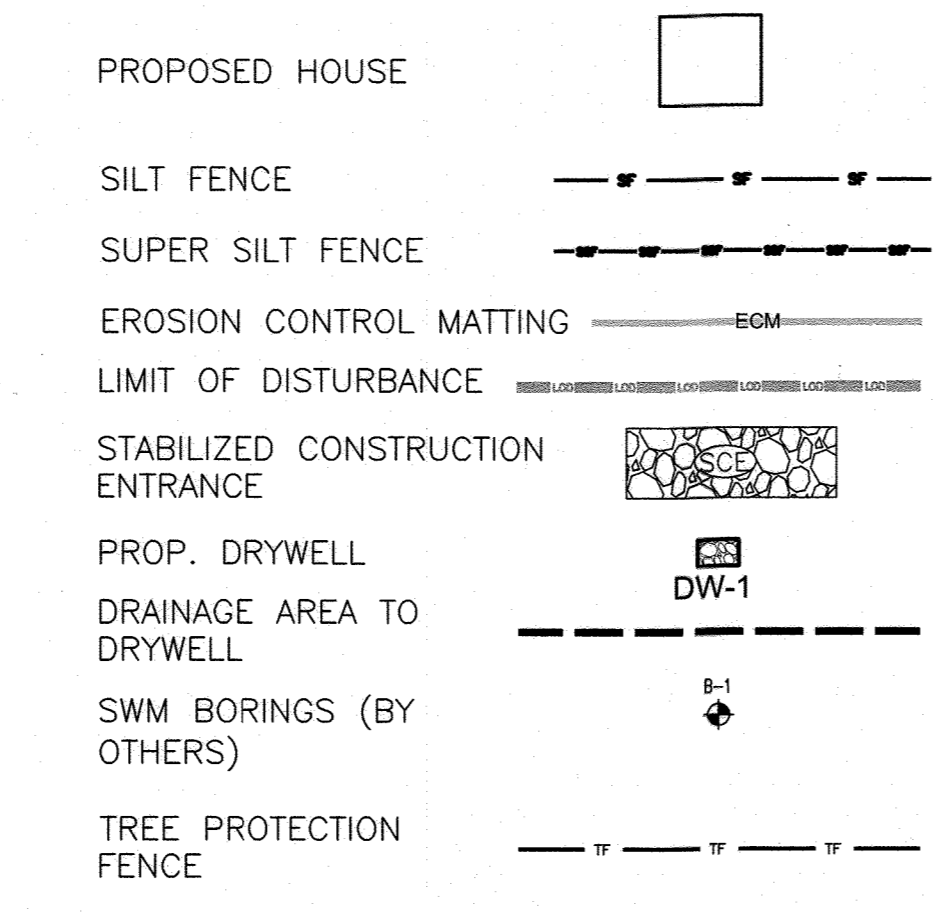
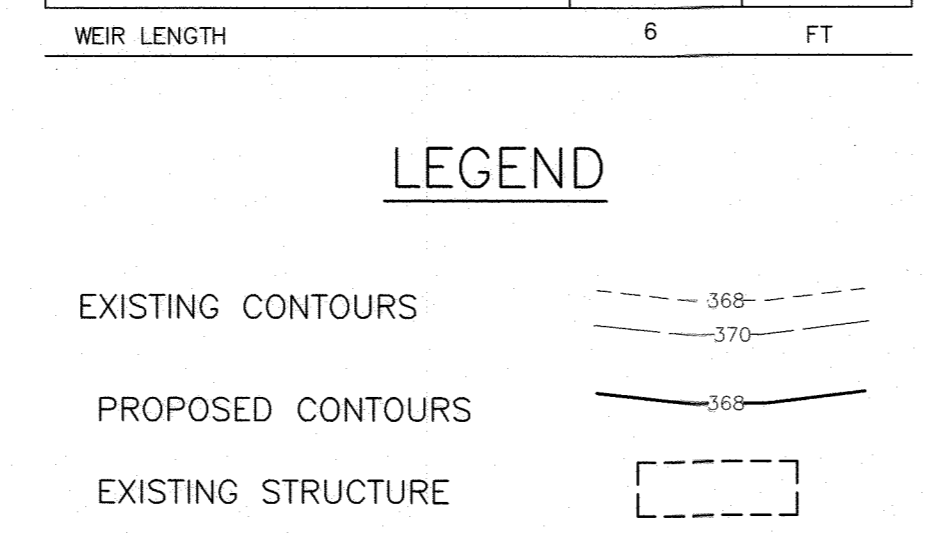
SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND

SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME	K-VALUE
U3B	D	B/C		URBAN LAND-CHILLUM-BELTSVILLE COMPLEX, 0 TO 5 PERCENT SLOPES	-

USDA SOIL MAP-28
 SINCE THE SITE IS CLASSIFIED AS 'D' SOILS BY THE NRCS A GEOTECHNICAL ANALYSIS WAS PROVIDED. SEE GEOTECH RECOMMENDATIONS ABOVE.

TEMPORARY GABION OUTLET STRUCTURE

SWALE	#1	#2
DRAINAGE AREA	0.09 AC	0.10 AC
TOTAL STORAGE REQUIRED	162 CF	180 CF
TOTAL STORAGE PROVIDED	1,620 CF	
TOP OF WEIR	278.0 FT	
TOP OF DAM	278.5 FT	
WEIR LENGTH	6 FT	



ADDRESS CHART

LOT No.	ADDRESS
65	9108 GRANT AVENUE
66	9112 GRANT AVENUE

PROJECT BACKGROUND INFORMATION

PRESENT ZONING: R-SC
 LOCATION: TAX MAP 50 - GRID 02 - PARCEL 413
 APPLICABLE DPZ FILE REFERENCES: EOP-20-050
 DEED REFERENCES: L 284 / F. 286(LOT 65) & L 254 / F. 372(LOT 66),
 PROPOSED USE OF SITE: SINGLE FAMILY DETACHED
 PROPOSED WATER AND SEWER SYSTEMS: PUBLIC WATER & SEWER

SITE ANALYSIS DATA CHART

A.) TOTAL PROJECT AREA	0.34 AC.
B.) AREA OF THIS PLAN SUBMISSION	0.34 AC.
C.) APPROXIMATE LIMIT OF DISTURBANCE	0.32 AC.
D.) PRESENT ZONING:	R-SC RESIDENTIAL SINGLE FAMILY SEMI-DETACHED
E.) PROPOSED USE OF SITE:	
F.) TOTAL NUMBER OF UNITS ALLOWED AS SHOWN ON FINAL PLATS(S)	2
G.) TOTAL NUMBER OF UNITS PROPOSED	2
H.) REQUIRE PARKING PER UNIT:	2.5 SPACES/UNIT
I.) PROVIDED PARKING PER UNIT:	3 SPACES/UNIT (2 GARAGE, 1 DRIVEWAY)
J.) APPLICABLE DPZ FILE REFERENCES:	N/A
K.) MAXIMUM LOT COVERAGE (BY STRUCTURE)	60%
L.) LOT COVERAGE	29% (LOT 65)
M.) LOT COVERAGE	29% (LOT 66)
N.) PROPOSED WATER AND SEWER SYSTEMS:	<input checked="" type="checkbox"/> PUBLIC <input type="checkbox"/> PRIVATE

PERMIT INFORMATION CHART

SUBDIVISION NAME:	SECTION/AREA:	LOT	PARCEL #
HIGH RIDGE PARK	N/A	65 & 66	413

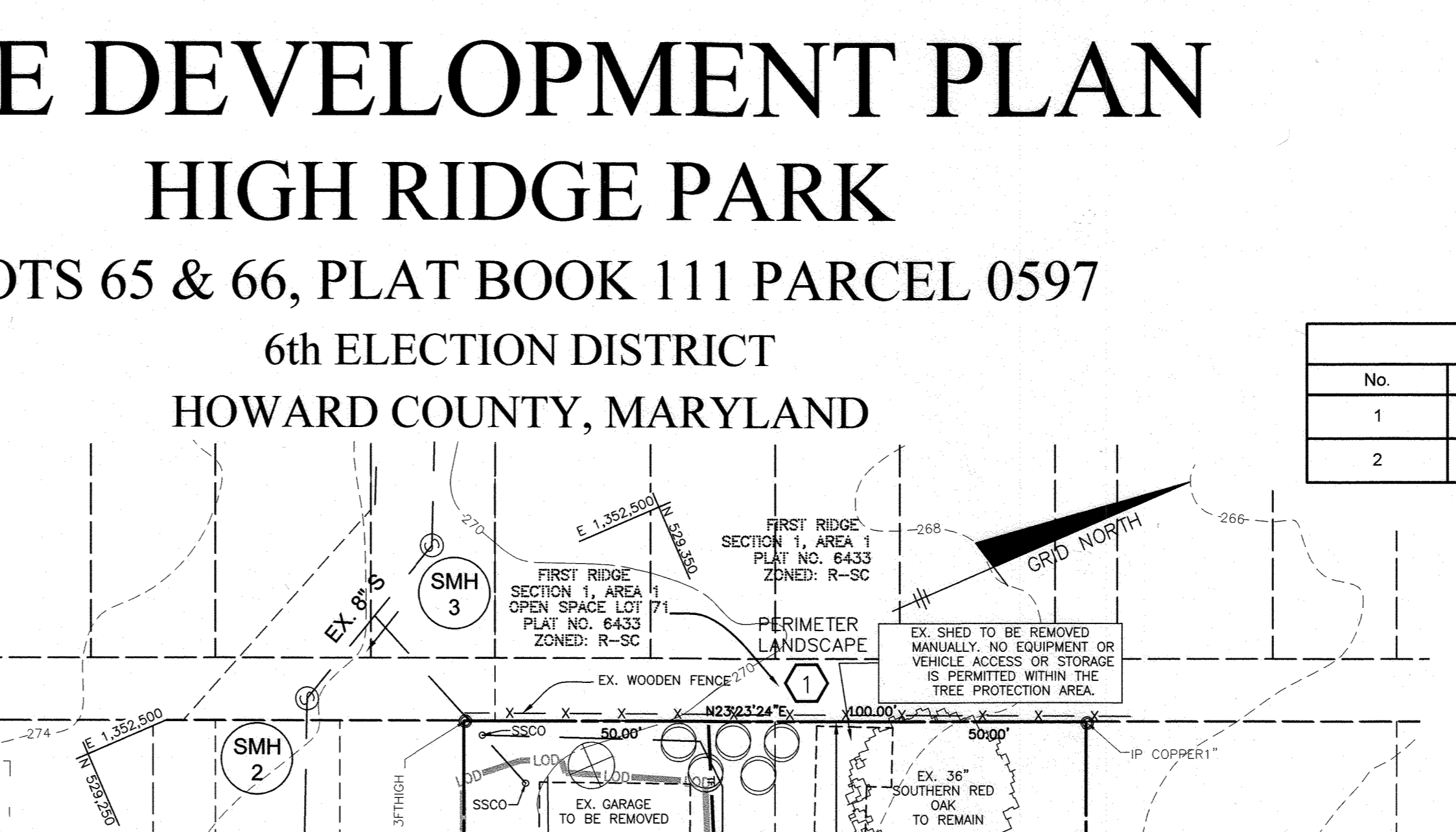
FLAT No. PB 111 FOLIO 597
 GRID No. 2
 ZONE R-SC
 TAX MAP 50
 ELECTION DISTRICT 6TH
 CENSUS TRACT 6069.06

Stormwater Management Design Recommendations

The "2000 Maryland Stormwater Design Manual" published by the Maryland Department of the Environment states that stormwater management facilities utilizing infiltration, such as the proposed drywells, shall have a Hydrologic Soil Group classification (HSG) of A or B.

The results of this study indicate that infiltration is feasible at Test Boring Nos. B-1 and B-2. It should be noted that the bottom of any SWM facility utilizing infiltration should be located at least four feet above any groundwater or bedrock.

* BASED ON THE ANALYSIS AND CONVERSATIONS WITH THE GEOTECH DRYWELLS ARE ACCEPTABLE FOR THIS SITE.

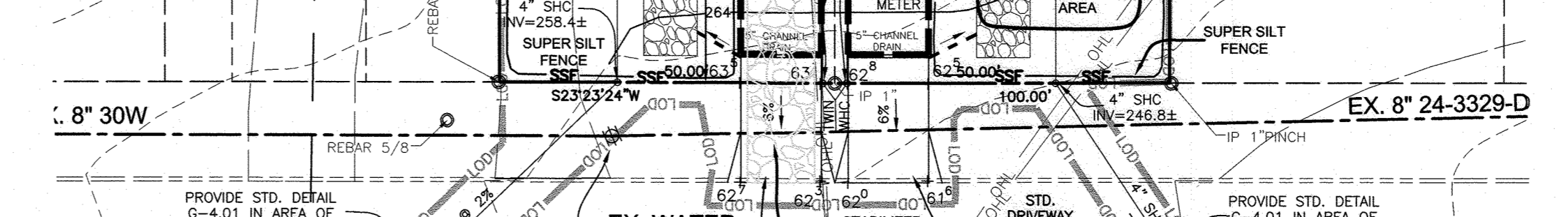


SHEET INDEX

No.	DESCRIPTION
1	SITE DEVELOPMENT, STORMWATER MANAGEMENT AND GRADING PLAN
2	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS

GENERAL NOTES

- SUBJECT PROPERTY IS ZONED R-SC PER THE 10-6-2013 COMPREHENSIVE ZONING PLAN, OCTOBER 7, 2007.
- PROJECT LIMITS ARE BASED ON THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, DATED APRIL 2020 AND SUPPLEMENTED WITH HOWARD COUNTY GIS. CONTOUR INTERVAL IS 2'.
- THE COORDINATES SHOWN HEREON ARE BASED UPON HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM, HOWARD COUNTY MONUMENT NOS. 4760 AND 4762 WERE USED FOR THIS PROJECT.
- THERE ARE NO STEEP SLOPES (25% OR GREATER) IN EXCESS OF 20,000 SF ON THIS SITE.
- THERE ARE NO FLOODPLAINS, STREAMS OR WETLANDS LOCATED ON-SITE.
- TO THE BEST OF OUR KNOWLEDGE THERE ARE NO CEMETERIES OR HISTORIC STRUCTURES LOCATED ON THIS SITE.
- A NOISE STUDY IS NOT REQUIRED FOR THIS PLAN.
- THIS SITE IS LOCATED WITHIN THE METROPOLITAN DISTRICT AND THE PLANNED SERVICE AREA. WATER AND SEWER WILL BE PUBLIC.
- THE SITE AREA IS LESS THAN 40,000 SF. THEREFORE, THE SITE IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR CONSERVATION AND FOREST STAND DELINEATION PER SECTION 16.1202(D)(1)(I) OF THE SUBDIVISION REGULATIONS FOR DEVELOPMENT ON LAND WHICH IS LESS THAN 40,000 SF IN SIZE.
- ALL LANDSCAPING REQUIREMENTS SHALL BE FULFILLED IN ACCORDANCE WITH THE HOWARD COUNTY CODE, SECTION 16.124 AND THE LANDSCAPE MANUAL. SURETY FOR THE REQUIRED 1 SHADE TREE (\$300,000) AND 5 EVERGREEN TREES (\$750,000) FOR A TOTAL OF \$1,050,000 SURETY WILL BE POSTED AS PART OF THE GRADING PERMIT.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 A) WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE).
 B) SURFACE - 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN).
 C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM 45' TURNING RADIUS.
 D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).
 E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.
 F) STRUCTURE CLEARANCES - MINIMUM 12 FEET.
 G) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS, OR EXTERIOR STAIRWAYS NOT MORE THAN 18 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.
- IN ACCORDANCE WITH SECTION 18.108 (D)(2)(I)(v), A PRE-SUBMISSION COMMUNITY MEETING FOR THIS PROJECT IS NOT REQUIRED, AS THIS PROJECT IS PART OF A RECORDED SUBDIVISION THAT AUTHORIZED AN EQUAL OR GREATER NUMBER OF RESIDENTIAL UNITS THAN PROPOSED ON THIS PLAN.
- 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 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- EXISTING UTILITIES SHOWN ARE BASED ON A FIELD SURVEY, HOWARD COUNTY GIS, AND INFORMATION OF RECORD.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE BUILDER'S EXPENSE. CONTRACTOR SHALL ADJUST ELEVATIONS OF STRUCTURES AS NECESSARY.
- SHC ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.
- STORMWATER MANAGEMENT METHODS WERE DESIGNED BASED ON THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I AND II. TREATMENT IS PROVIDED USING ENVIRONMENTAL SITE DESIGN METHODS, INCLUDING 3 DRYWELLS (M-5) PER LOT. THE FACILITIES SHALL BE OWNED AND MAINTAINED BY THE LOT OWNER.
- LANDSCAPE ZONING BUILDING RESTRICTION LINE: OTHER RESTRICTIONS MAY APPLY.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.
- THE STAKING OF FOUNDATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH REGULATORY BUILDING RESTRICTION LINES IS REQUIRED.
- TEMPORARY OR PERMANENT SEEDING AND STABILIZATION IS TO BE PERFORMED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR OR AT THE TIME FRAME PROVIDED WITHIN THE 2011 MD STANDARDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, WHICHEVER IS MORE STRINGENT.
- FOR DRIVEWAY ENTRANCE DETAIL, SEE HOWARD COUNTY STANDARDS DETAIL R-6.05.
- THIS PROJECT DISTURBANCE IS LESS THAN 30,000 SF, AND SEDIMENT CONTROL SHALL BE UNDER THE STANDARD SEDIMENT CONTROL PLAN.
- IF ANY WELL OR SEPTIC ARE FOUND BEFORE AND OR DURING CONSTRUCTION THEY MUST BE PROPERLY ABANDONED WITH DOCUMENTATION SENT TO THE HEALTH DEPT.
- PREVIOUS HOWARD COUNTY FILE REFERENCE: PLAT BOOK 111, FOLIO 597
- A GEOTECHNICAL ANALYSIS WAS PREPARED BY GEOLAB, INC. DATED MAY 2020.
- BASED ON A FIELD ANALYSIS BY ECO-SCIENCE PROFESSIONALS, INC. DATE JUNE 1, 2020 THERE ARE NO WETLANDS OR FLOODPLAINS LOCATED ON THE SITE. A 30" SPECIMEN TREE IS LOCATED ON THE PROPERTY THAT IS TO REMAIN.
- PER SECTION 16.134(b) THE DEPARTMENT OF PLANNING AND ZONING AND OFFICE OF TRANSPORTATION DETERMINED NO SIDEWALK ARE REQUIRED BECAUSE THIS IS PART OF A RECORDED SUBDIVISION THAT HAS BEEN SUBSTANTIALLY COMPLETED WITHOUT SIDEWALKS PURSUANT TO PRIOR APPROVALS.



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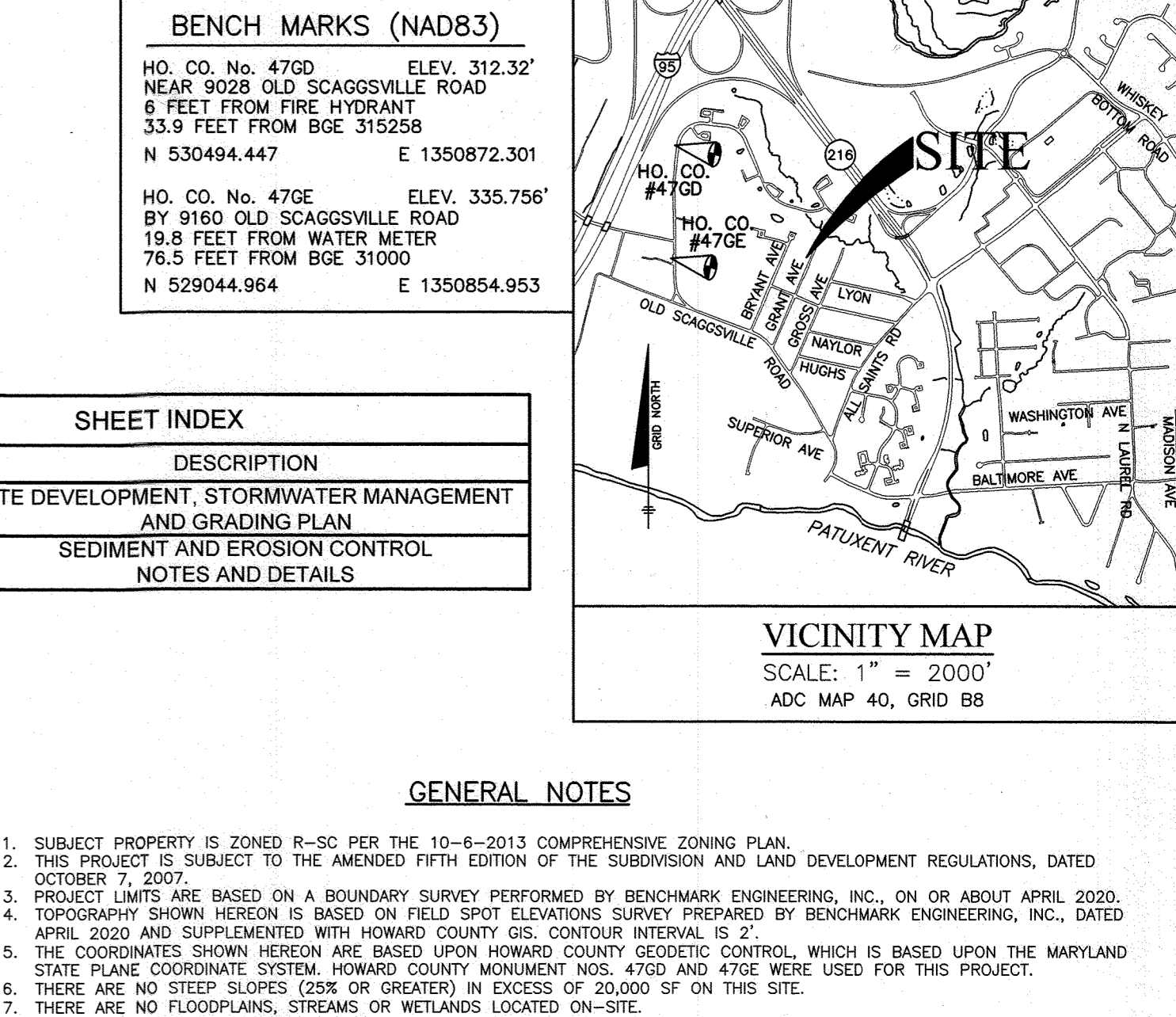
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B-4 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

Definition: The process of preparing the soils to sustain adequate vegetative stabilization. Includes: To provide a suitable medium for vegetative growth.

Conditions: Where practice application: Where vegetative stabilization is to be established.

Criteria:

- Use vegetative cover to protect exposed soil from erosion.
- To promote the establishment of vegetation on exposed soil.
- On all disturbed areas not stabilized by other methods. This specification is divided into sections on incremental stabilization, soil preparation, soil amendments and topsoiling; seeding and mulching; temporary stabilization; and permanent stabilization.
- Effects on Water Quality and Quantity: Vegetative stabilization is used to prevent the erosion of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and runoff to downstream areas.
- Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, capillary, and groundwater recharge. Over time, vegetation will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth.
- Vegetative stabilization will reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plans will also help protect groundwater supplies by assimilating those substances that do not infiltrate the soil.
- Vegetative stabilization must be placed during dry, seeded preparation, seeding, mulching, and vegetative establishment.

B-4-1 STANDARDS AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION

Definition: Establishment of vegetation over an cut and fill slopes.

Purpose: To provide timely vegetation cover on cut and fill slopes to prevent erosion.

Conditions: Where Practice Applies: Any cut or fill slope greater than 15 feet in height.

Criteria:

- Incremental Stabilization - Cut Slopes: Seeding and mulch on all cut slopes as the work progresses.
- Construction sequence as specified in Figure B.1.
- Construct and stabilize all temporary valleys or dikes that will be used to convey runoff around the excavation.
- Perform Phase 1 excavation, prepare seedbed, and stabilize. Overseed previously seeded areas as necessary.
- Perform final phase excavation, prepare seedbed, and stabilize. Overseed previously seeded areas as necessary.

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

B-4-2 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

Definition: Establishment of vegetation over an cut and fill slopes.

Purpose: To provide long-term permanent stabilization of soil on disturbed soils.

Conditions: Where Practice Applies: Exposed soils where ground cover is needed for 180 days or more.

Criteria:

- Select one or more of the species or mixtures listed in Table B.1 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Clear selected mixture, application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.
- Additional planting specifications for exceptional sites such as shrubs, stems, banks, or dunes or for special purposes such as wildlife or aesthetic purposes may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.
- For sites having disturbed areas over 2 acres, use and show the rates recommended by the soil testing agency.
- For areas requiring low maintenance, apply urea form fertilizer (46-0-0) at 3.0 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.
- Turfgrass Mixtures:
 - Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which require a medium to high level of maintenance.
 - Select one or more of the species or mixtures listed below 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.
 - 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 Cultivar 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 15 percent of the total mixture by weight.
 - Kentucky Bluegrass/Perennial Ryegrass: Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and where turf will receive medium to intensive management. Certified Perennial Ryegrass Cultivar/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky Bluegrass Cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
 - Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive areas and/or for areas receiving low to medium maintenance in full to moderate shade. Recommended Certified Kentucky Bluegrass Cultivar Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. One or two cultivars may be blended.
 - Kentucky Bluegrass/Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf areas. Mixture includes Certified Kentucky Bluegrass Cultivars 20 to 40 percent and Certified Fine Fescue and/or 10 to 20 percent. Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet.
 - Notes: Seeded turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Culture Recommendations for Maryland's Coastal Plain." 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 product protection and assures a pure genetic line.
 - Local Times of Seeding for Turf Grass Mixtures:
 - Western MD: March 15 to June 1, August 1 to October 1 (Hardness Zones 6a, 6b)
 - Central MD: March 1 to May 15, August 15 to October 15 (Hardness Zones 6b)
 - Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardness Zones 7a, 7b)

B-4-3 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

Definition: Establishment of vegetation over an cut and fill slopes.

Purpose: To stabilize disturbed soils with permanent vegetation.

Conditions: Where Practice Applies: Exposed soils where ground cover is needed for 180 days or more.

Criteria:

- 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.
- For sites having disturbed areas over 2 acres, use and show the rates recommended by the testing agency. Soil tests are not required for Temporary Seeding.
- When stabilization is required during the seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4-3.1 and maintain until the next seeding session.

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR SOIL 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 THE HOWARD SOIL CONSERVATION DISTRICT.

ENGINEER: [Signature] **DATE:** 11-18-20

DEVELOPER'S CERTIFICATE

I HEREBY CERTIFY THAT THE DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SOIL EROSION AND SEDIMENT CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR CONTROL OF SOIL EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: [Signature] **DATE:** 11/17/20

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHEF, DIVISION OF LAND DEVELOPMENT [Signature] **DATE:** 12/16/20

CHEF, DEVELOPMENT ENGINEERING DIVISION [Signature] **DATE:** 12-16-20

DIRECTOR [Signature] **DATE:** 12-16-20

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

Definition: The application of seed and mulch to establish vegetation cover.

Purpose: To protect disturbed soils from erosion during and at the end of construction.

Criteria:

- Application:
 - All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to a 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 the seed source.
 - Mulch alone may be applied between the fall and spring seeding dates only if the ground is not frozen. The appropriate seeding mixture must be applied to the seedbed.
 - Inoculants: The inoculant for leguminous species in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must be applied to the seedbed in accordance with the manufacturer's instructions as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculants as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less effective.
 - Seed or seed mix must 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 desiccation of any weeds or other material.
- Dry Seeding: This includes use of conventional row or broadcast spreaders.
 - Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1. Permanent Seeding Table B.2, or site-specific seeding summaries.
 - Apply seed in two directions, perpendicular to each other. Apply half the seeding rate seed to each contact.
 - Drill or Outdragger Seeding: Mechanized seeders that apply seed cover with soil. The appropriate seeding mixture must be applied to the seedbed. Seed must be applied at a rate of at least 1 1/4 inch of soil cover. Seedbed must be firm after seeding.
 - Apply seed in two directions, perpendicular to each other. Apply half the seeding rate to each direction.
 - Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer). 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; phosphorus, 200 pounds per acre total of phosphorus; and potassium, 200 pounds per acre.
 - Limit the maximum application rate to 1 to 2 tons per acre when applied by hydroseeding at any one time. Do not use burnt or tamped soil.
 - Mix seed and fertilizer on a seed immediately and without interruption. Where seed and fertilizer are not incorporated seed to the soil.
- Mulching:
 - Mulch materials (in order of preference):
 - Straw consisting of thorough cleaned wheat, oat, barley and reasonably light cut or straw to be free of noxious weed seeds as specified in the Maryland Seed Law and not moldy, rotting, decayed, or excessively dusty. Note: Only straw sterile straw mulch in areas where one species of grass is desired.
 - Wood Cellulose Fiber Mulch (WCVM): consisting of specially prepared wood cellulose processed into a uniform fibrous physical state.
 - WCVM must be free of noxious plants and plant parts such as Bermuda grass, quack grass, Johnson grass, red top, sedge, pine, hay, straw, or other as specified.
 - Topsoil substitutes or amendments consisting of approved agricultural or soil material and approved by the appropriate approval authority, may be used in use of natural topsoil.
 - WCVM materials are to be manufactured and processed in a manner that the wood cellulose fiber mulch is retained in uniform suspension in water and applied to the soil surface. The mulch must be free of noxious plants and plant parts such as Bermuda grass, quack grass, Johnson grass, red top, sedge, pine, hay, straw, or other as specified.
 - WCVM must conform to the following physical properties: fiber length of approximately 1/4 inch; diameter of 0.005 to 0.010 inch; pH range of 4.0 to 6.5, ash content of 1.0 percent maximum and water holding capacity of 90 percent.

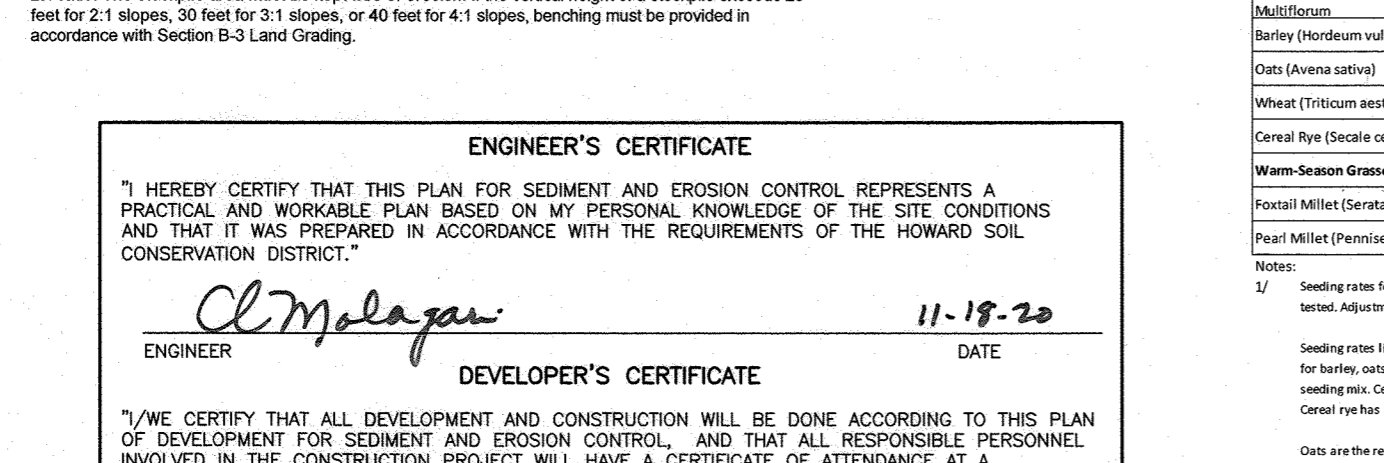
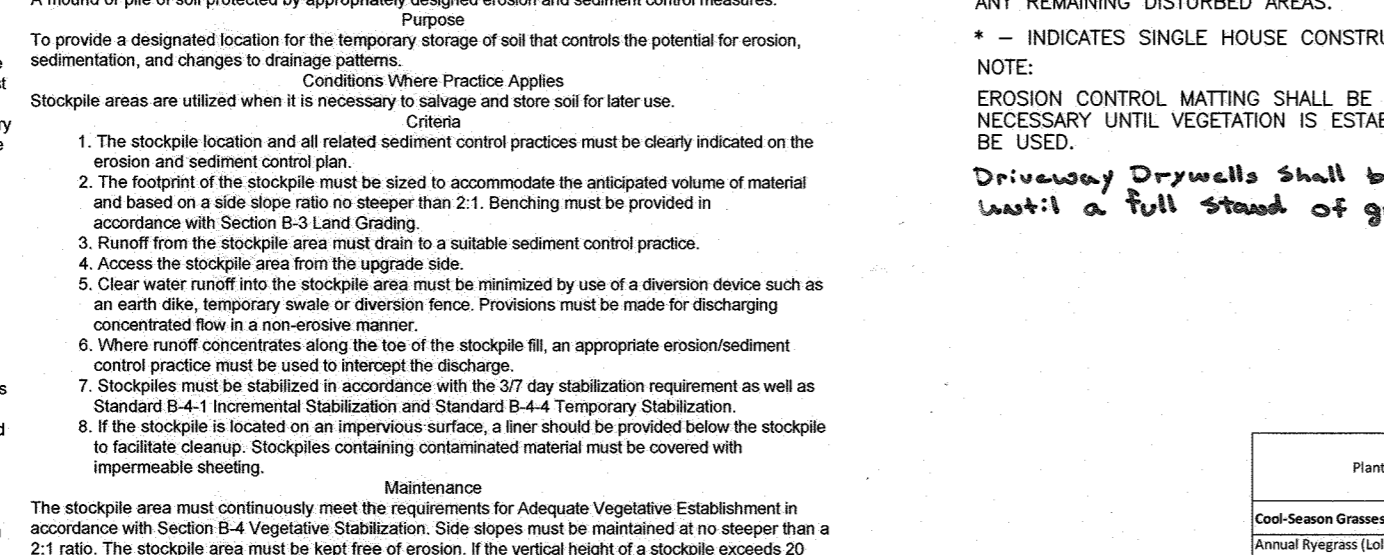
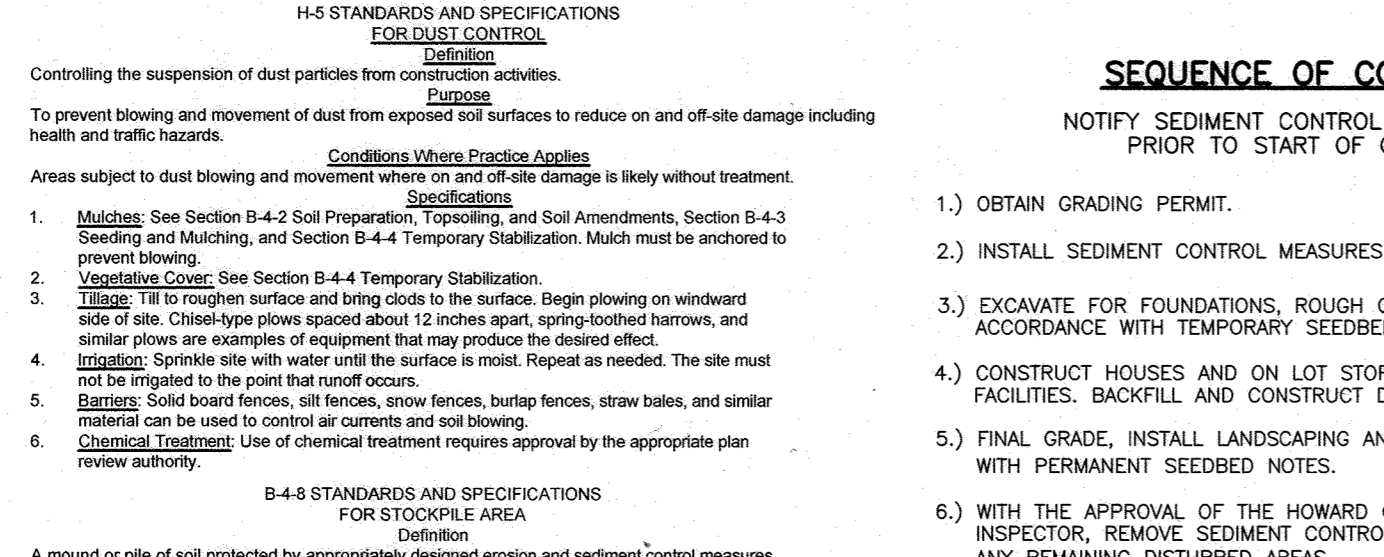
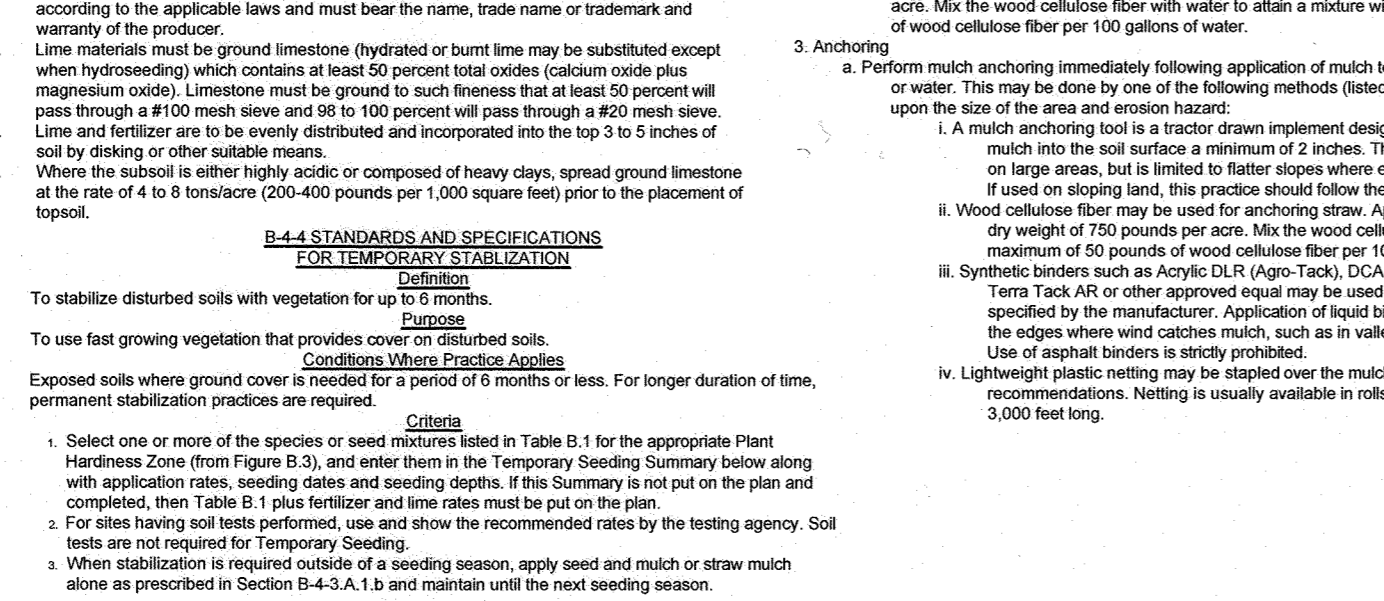
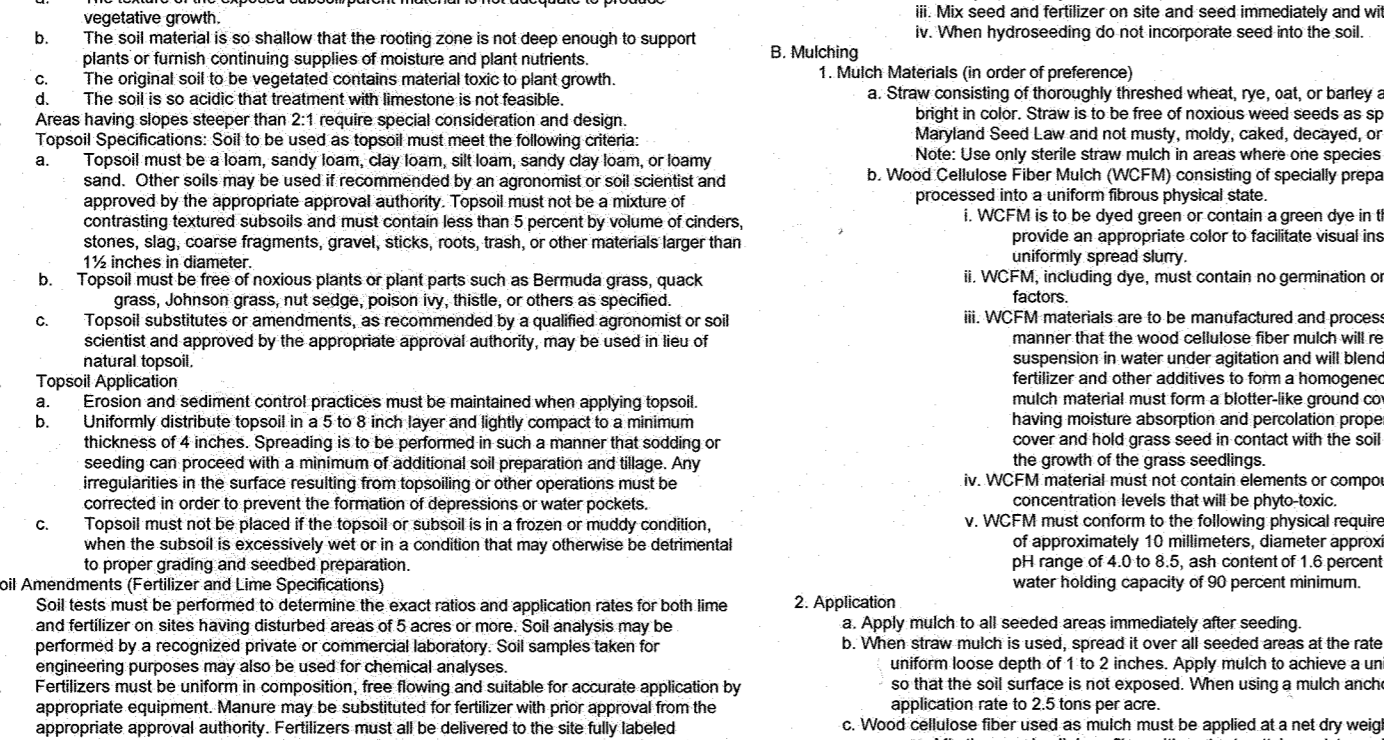


Table B.1: Temporary Seeding for Site Stabilization

Plant Species	Seeding Rate (lb/ac)	Seeding Depth (inch)	Recommended Seeding Dates by Plant Hardiness Zone
Annual Grasses			
Corn/Grass (Columbium mixture)	40	1.0	Mar 1 to May 15; Aug 1 to Oct 31
Perennial Grasses			
Bluegrass (Kentucky)	96	2.2	Mar 1 to May 15; Aug 1 to Oct 31
Orchard Grass (Kentucky)	7	1.7	Mar 1 to May 15; Aug 1 to Oct 31
Orchard Grass (Kentucky)	130	2.8	Mar 1 to May 15; Aug 1 to Oct 31
Orchard Grass (Kentucky)	112	2.8	Mar 1 to May 15; Aug 1 to Oct 31
Warm-Season Grasses			
Foral Millet (Serotina hybrid)	30	0.7	May 16 to Jul 31
Foral Millet (Perennialism group)	30	0.5	May 16 to Jul 31

Permanent Seeding Summary

Hardness Zone (from Figure B.3)	Soil	Fertilizer Rate (lb/100-200)	Lime Rate
6a	Table E.1 Kentucky Bluegrass	45 pounds per acre	90lb/200 (120lb/1000)
6b	Table E.1 Kentucky Bluegrass	45 pounds per acre	90lb/200 (120lb/1000)
7a	Table E.1 Kentucky Bluegrass	45 pounds per acre	90lb/200 (120lb/1000)
7b	Table E.1 Kentucky Bluegrass	45 pounds per acre	90lb/200 (120lb/1000)

CONSTRUCTION SPECIFICATIONS

- USE MATTING THAT HAS A TENSILE STRENGTH FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRENGTH OF THE SUBSOIL TO BE STABILIZED.
- USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC NON-DEGRADABLE POLYPROPYLENE OR POLYESTER WITH A TENSILE STRENGTH OF AT LEAST 100 LBS PER YARD. MATTING SHOULD BE 18 INCHES WIDE AND 18 INCHES LONG. MATTING SHOULD BE APPLIED TO THE SUBSOIL TO BE STABILIZED IN A MANNER THAT PROVIDES A MINIMUM OF 100% COVERAGE.
- SEEDING MATTING SHALL BE APPLIED TO THE SUBSOIL TO BE STABILIZED IN A MANNER THAT PROVIDES A MINIMUM OF 100% COVERAGE.
- PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDING, PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH THE HOWARD COUNTY CODE AND THE HOWARD COUNTY ZONING ORDINANCE.
- UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE MAINTAINED IN GOOD CONDITION AND WHEN NECESSARY, REPLACED OR REPAIRED.
- OVERLAP OR BUTT JOINTS OF MATTING SHALL BE MANUFACTURED OVERLAP OR BUTT JOINTS SHALL BE 6 INCHES OR MORE.
- SEEDING MATTING SHALL BE APPLIED TO THE SUBSOIL TO BE STABILIZED IN A MANNER THAT PROVIDES A MINIMUM OF 100% COVERAGE.
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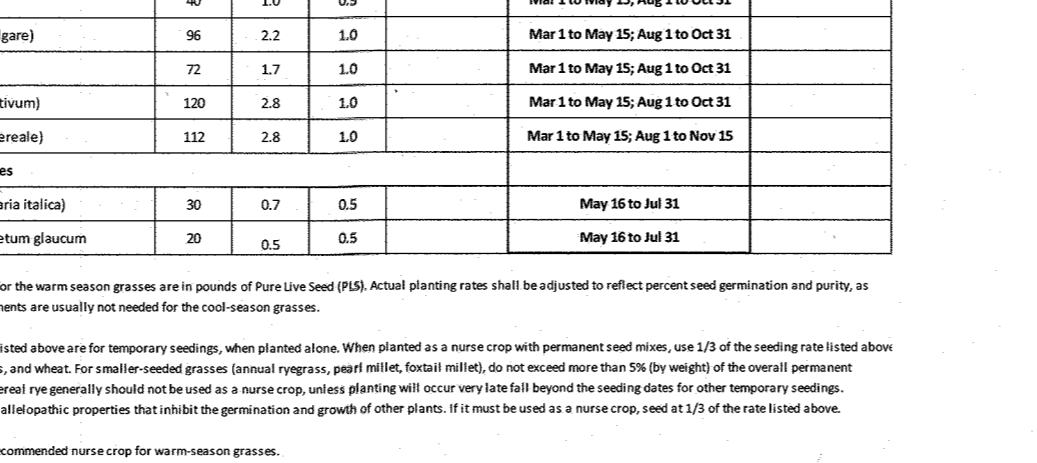
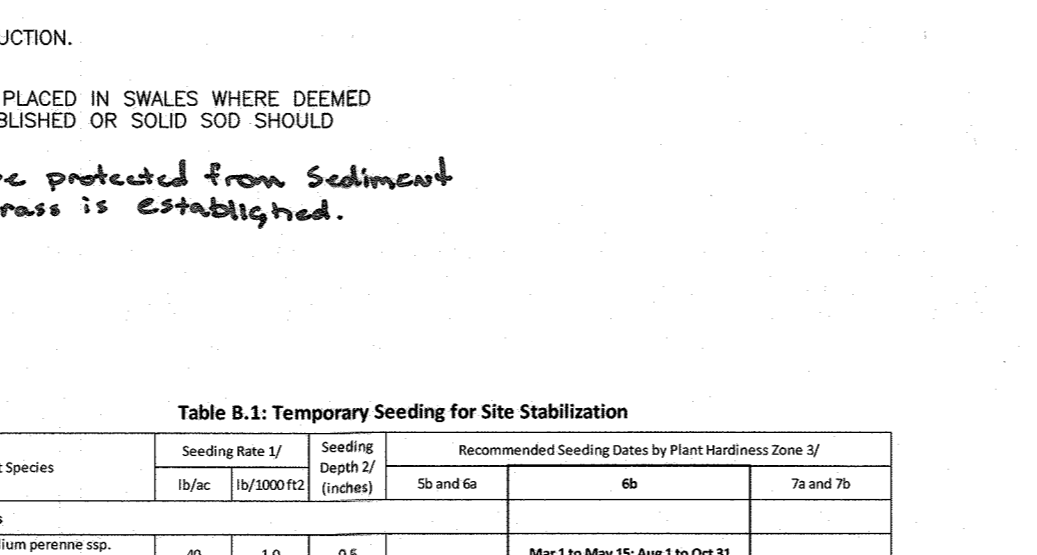
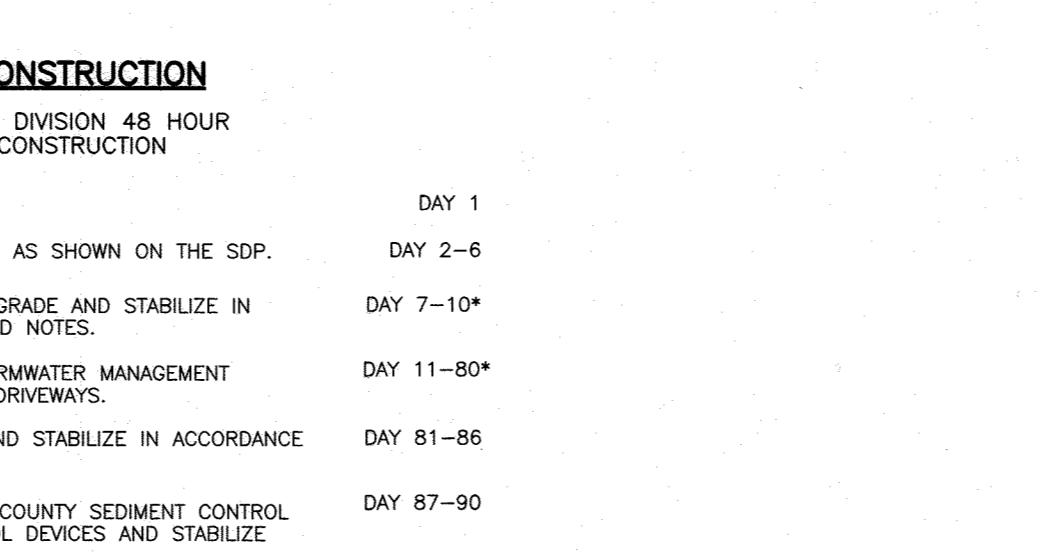
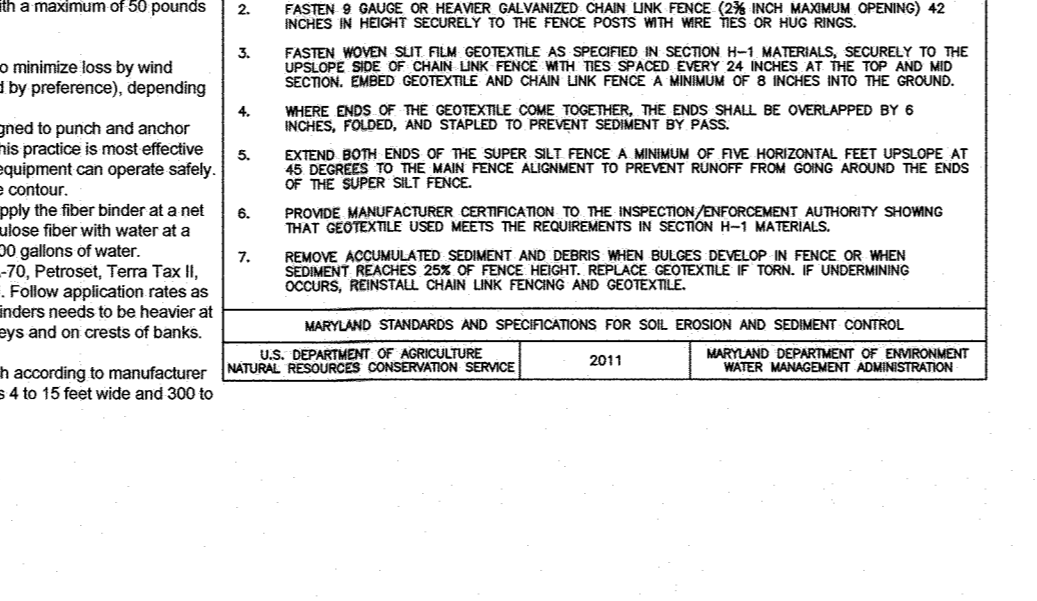
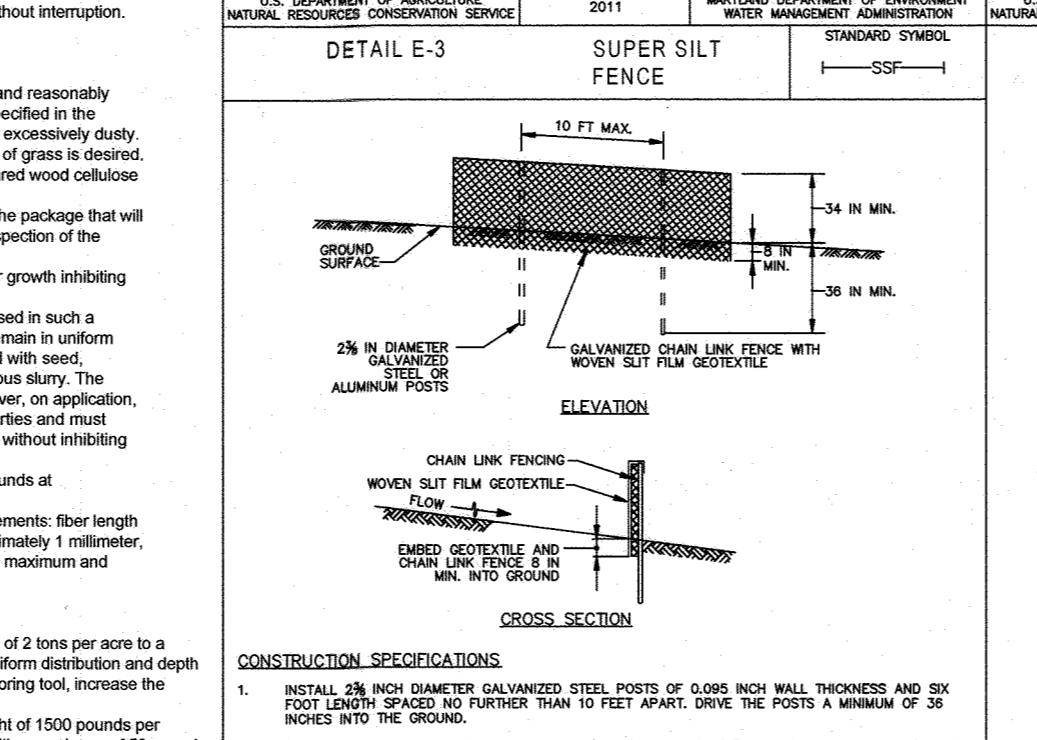


Table B.2: Permanent Seeding for Site Stabilization

Plant Species	Seeding Rate (lb/ac)	Seeding Depth (inch)	Recommended Seeding Dates by Plant Hardiness Zone
Annual Grasses			
Corn/Grass (Columbium mixture)	40	1.0	Mar 1 to May 15; Aug 1 to Oct 31
Perennial Grasses			
Bluegrass (Kentucky)	96	2.2	Mar 1 to May 15; Aug 1 to Oct 31
Orchard Grass (Kentucky)	7	1.7	Mar 1 to May 15; Aug 1 to Oct 31
Orchard Grass (Kentucky)	130	2.8	Mar 1 to May 15; Aug 1 to Oct 31
Orchard Grass (Kentucky)	112	2.8	Mar 1 to May 15; Aug 1 to Oct 31
Warm-Season Grasses			
Foral Millet (Serotina hybrid)	30	0.7	May 16 to Jul 31
Foral Millet (Perennialism group)	30	0.5	May 16 to Jul 31

CONSTRUCTION SPECIFICATIONS

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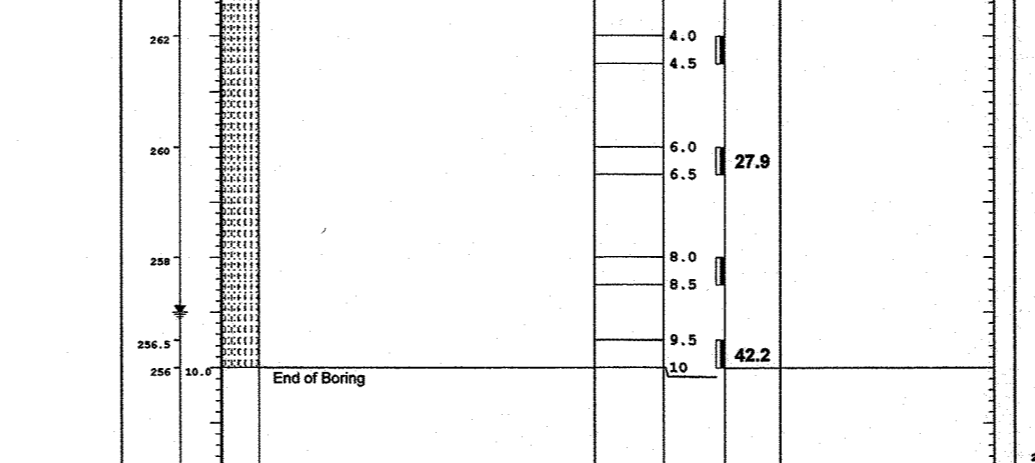
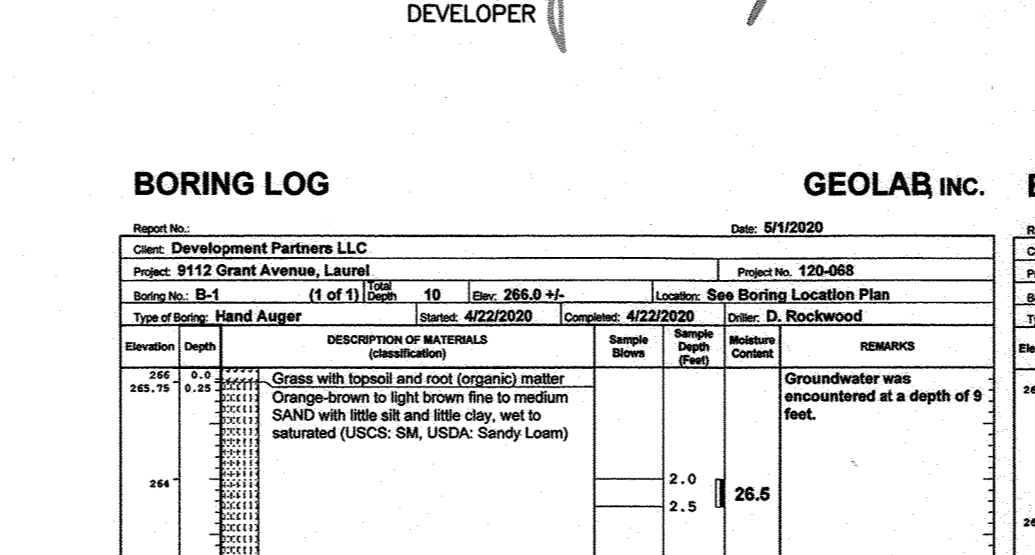
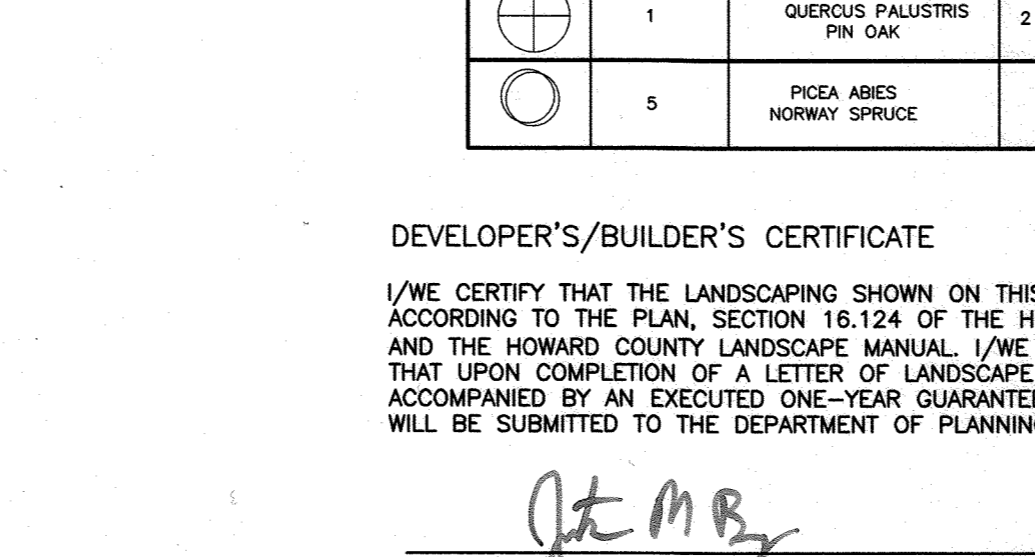
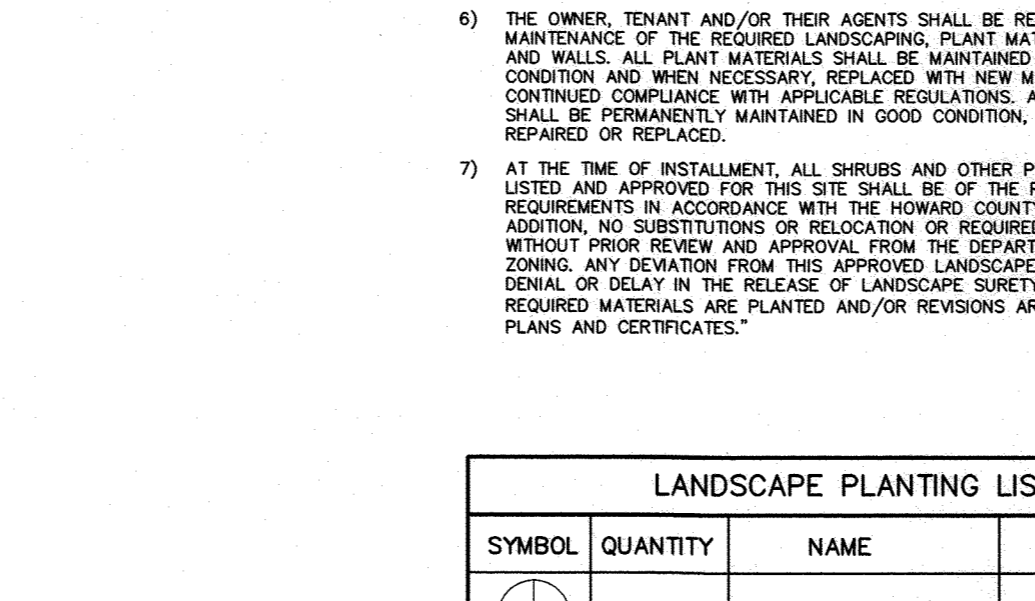
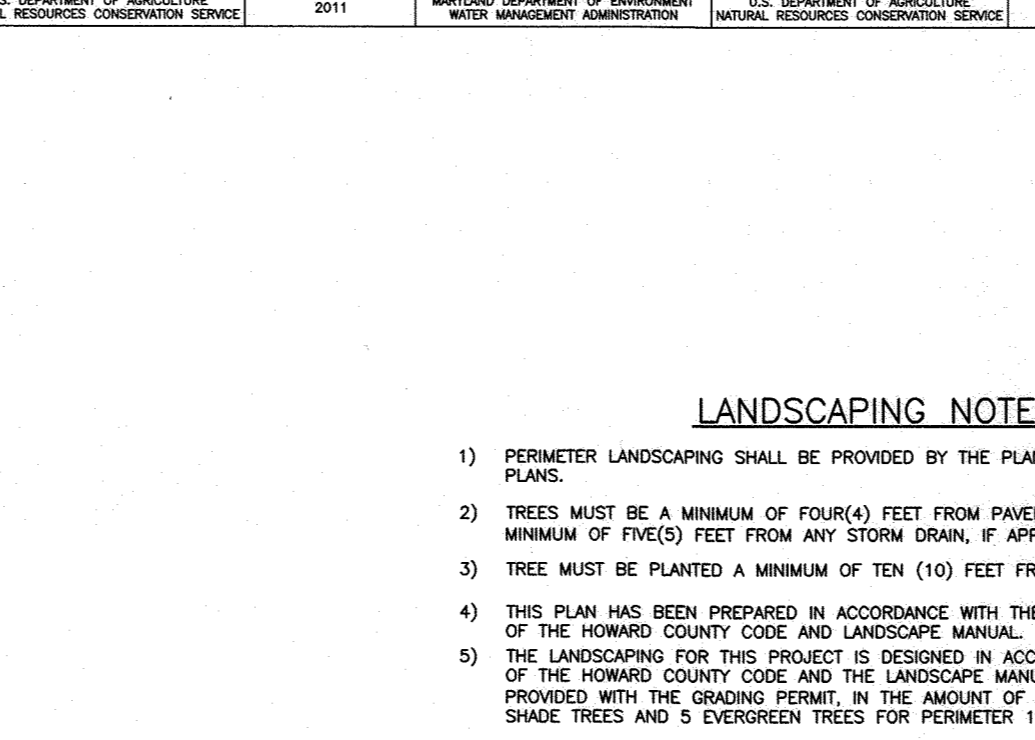


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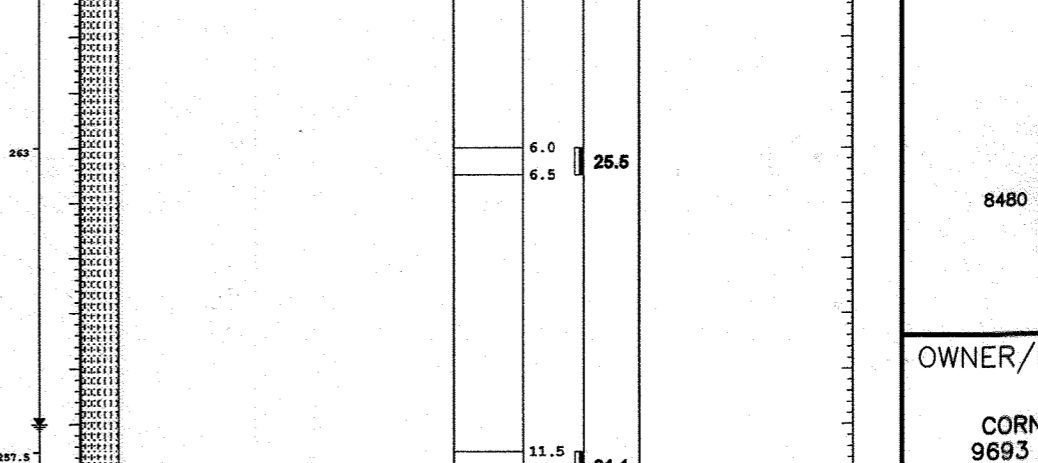
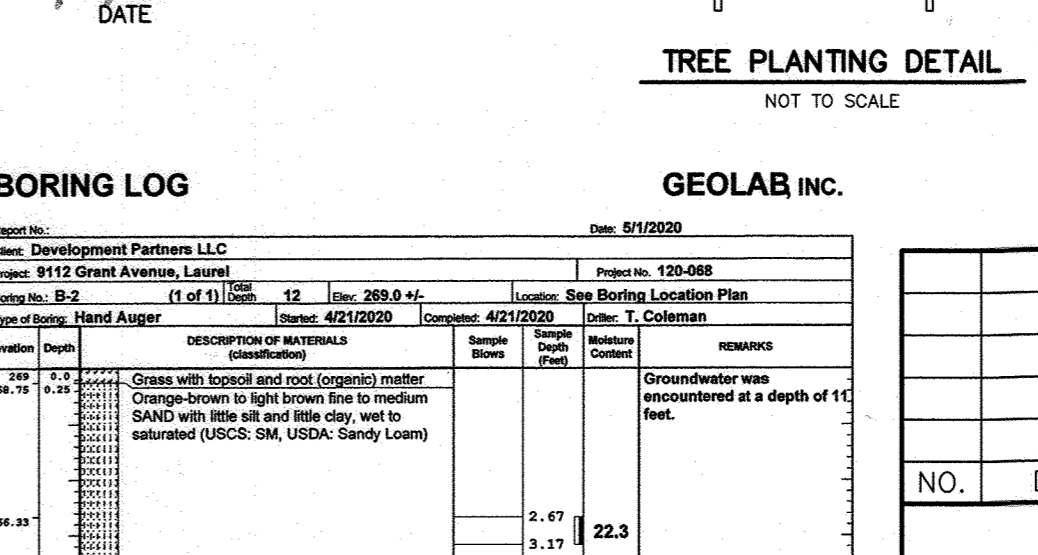
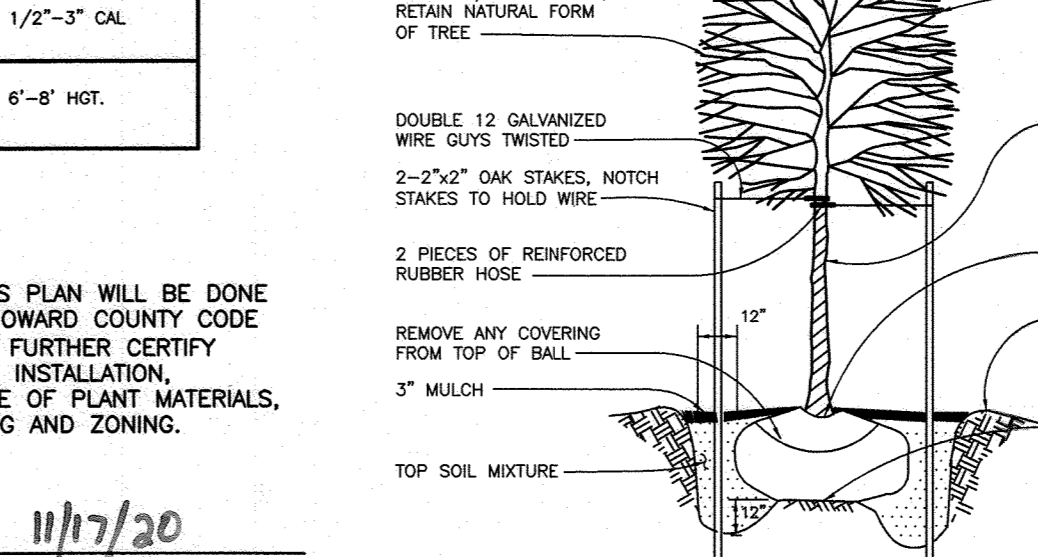
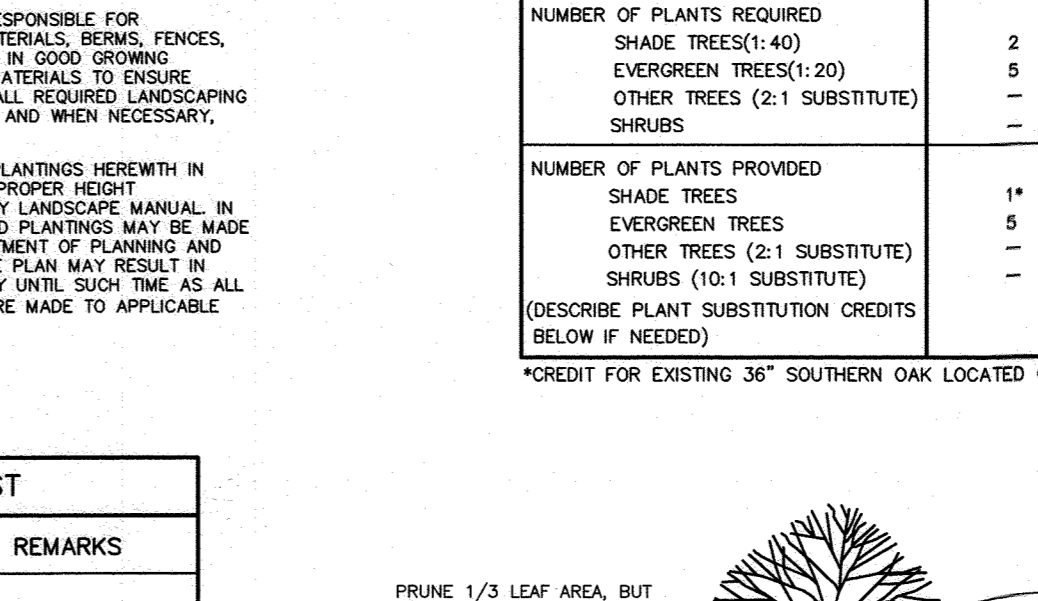
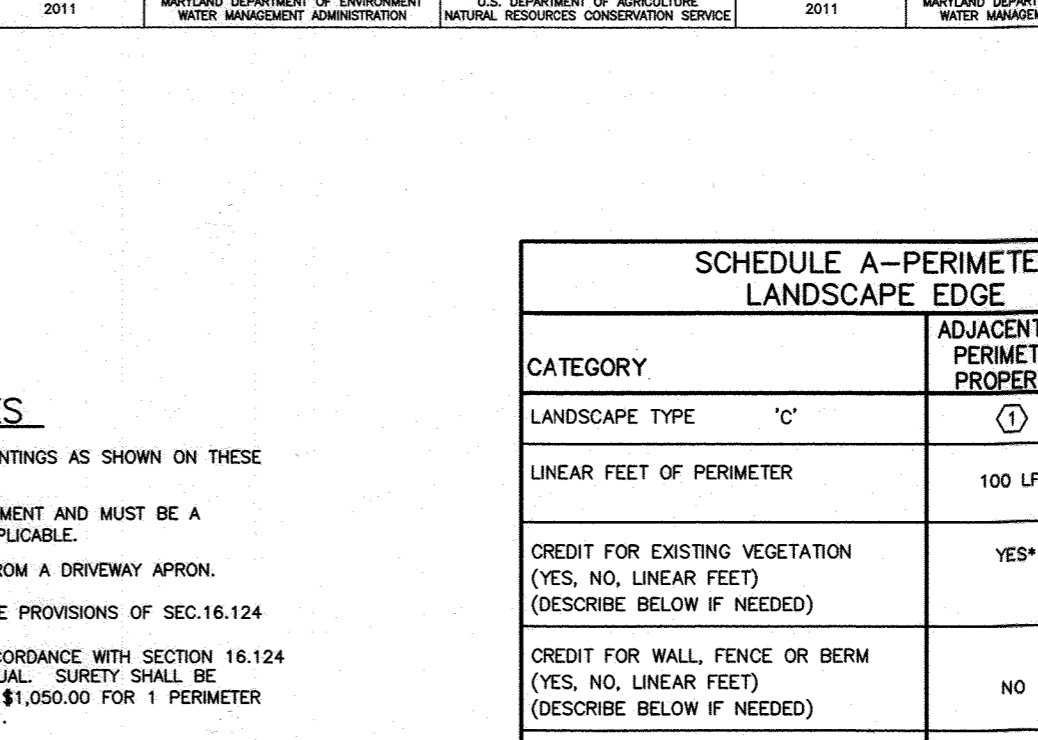


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Warm-Season Grasses			
Foral Millet (Serotina hybrid)	30	0.7	May 16 to Jul 31
Foral Millet (Perennialism group)	30	0.5	May 16 to Jul 31

STANDARD SEDIMENT CONTROL NOTES

- A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID) 41 DAYS PRIOR TO THE START OF CONSTRUCTION AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOUR NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES:
 - PRIOR TO THE START OF EARTH CONSTRUCTION.
 - UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER DISTURBANCE OF THE SURFACE OF ALL PERIMETER CONTROLS.
 - PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT.
 - 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 RETAINED AND MAINTAINED ON-SITE THROUGHOUT THE CONSTRUCTION PERIOD.
- 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 THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DESTRUCTION, PERMANENT OR TEMPORARY STABILIZATION IS REQUIRED WITHIN THREE (3) CALENDAR DAYS OF 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.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR TOPSOIL (SEC. B-4-2), PERMANENT SEEDING (SEC. B-4-5), TEMPORARY SEEDING (SEC. B-4-4) AND MULCHING (SEC. B-4-3). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES IF THE GROUND IS FROZEN.
- INCREMENTAL STABILIZATION (SEC. B-4-1) SPECIFICATIONS SHALL BE ENFORCED IN AREAS WITH >15% OF CUT AND/OR FILL STOCKPILES (SEC. B-4-8) IN EXCESS OF 20 FT. MUST BE BENTCHED WITH STABLE OUTLET, ALL CONCENTRATED FLOW, STEEP SLOPE, AND HIGHLY ERODIBLE AREAS SHALL RECEIVE SOIL STABILIZATION MATTING (SEC. B-4-6).
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE, AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSON FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE CID.

ADJACENT TO PERIMETER PROPERTY

CATEGORY	ADJACENT TO PERIMETER PROPERTY
LANDSCAPE TYPE	'C'
LINEAR FEET OF PERIMETER	100 LF
CREDIT FOR EXISTING VEGETATION	YES*
CREDIT FOR WALL, FENCE OR BERM	NO
NUMBER OF PLANTS REQUIRED	2
SHADE TREES (1:40)	2
EVERGREEN TREES (1:20)	2
OTHER TREES (2:1 SUBSTITUTE)	5
SHRUBS	5
NUMBER OF PLANTS PROVIDED	1*
SHADE TREES	1*
EVERGREEN TREES	5
OTHER TREES (2:1 SUBSTITUTE)	5
SHRUBS (1:1 SUBSTITUTE)	5

