

UTILITY COMPANIES

POTOMAC ELECTRIC POWER CO. 701 9th STREET, N.W. WASHINGTON D.C. 20068 202-331-6237

GAS SERVICE WASHINGTON GAS COMPANY 6801 INDUSTRIAL RD SPRINGFIELD VA. 22151 703-750-1000

3901 CALVERTON BOULEVARD BELTSVILLE, MD. 20705

TELEPHONE SERVICE 301-595-6052

SEWER & WATER SERVICE D.C. WATER & SEWER AUTHORITY 5000 OVERLOOK AVENUE, S.W.

WASHINGTON, D.C. 20032

SITE ANALYSIS DATA CHART

a. TOTAL PROJECT AREA: 0.2755 ACRES±

b. LIMIT OF DISTURBED AREA: 0.310 ACRES±

c. SUBJECT PROPERTY ZONED "R-12" PER 10/06/13 COMPREHENSIVE ZONING PLAN.

d. PROPOSED USES FOR SITE & STRUCTURES: SINGLE FAMILY ATTACHED DWELLINGS (DUPLEX)

e. BUILDING COVERAGE OF SITE: 0.1 ACRES OR 36.30% OF GROSS AREA

f. DPZ FILE REFERENCES: SDP-16-006 & ECP-16-003

g. TOTAL NUMBER OF UNITS PROPOSED FOR THIS SUBMISSION: 4 (2 DUPLEX) h. THE REQUIRED PARKING SPACE FOR EACH LOT IS 3.

i. THE PROPOSED PARKING SPACE FOR EACH LOT IS 3.

LEGEND

S SEWER MANHOLE FIRE HYDRANT

PP@ PEPCO POWER POLE

WMO WATER METER

--- ELECTRIC OVERHEAD WIRE -s - SEWER LINE

____SD___ STORM DRAIN LINE

// WOOD FENCE

IPF IRON PIPE FOUND IRON PIPE SET

X 145.3 EXISTING GRADE + 146 PROP. GRADE

-148 PROP. CONTOUR

--146-- EXISTING CONTOUR

NAME DATE DESCRIPTION **REVISIONS**

DEVELOPER'S CERTIFICATE I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL 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 PROJECT, I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT SIGNATURE OF DEVELOPER APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 3.1.18 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE CHIEF, DIVISION OF LAND DEVELOPMENT W 3/27/18 DATE ** 3-29-18 DATE

Scale 1" = 20'

PROFESSIONAL CERTIFICATE HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND.

NAME: ANDREW HUSBANDS

LICENSE No.: 21188

EXPIRATION DATE: 01-04-2018

SURVEYOR'S CERTIFICATE 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.

SIGNATURE OF SURVEYOR

2-12-2018 DATE

INTERSECTION PAVEMENT.

Kady Group Inc. c/o Darryls S 6397 Beechfield Avenue Elkridge MD 21075

2-THERE SHALL BE NO OBSTRUCTIONS PROPOSED BETWEEN THE DRIVEWAY OF LOT 464 AND MELROSE AVENUE.

23. A VARIANCE REQUEST OF HCZR SECTION 109.0.D.4.b.(1).(a) TO REDUCE THE SIDE SETBACK FROM 20FT TO 7.5 FT

1. THE VARIANCE SHALL APPLY ONLY TO THE USES AND STRUCTURES AS DESCRIBED IN THE PETITION AND PLAN

2. PETITIONER SHALL INCLUDE A NOTE ON THE SITE DEVELOPMENT PLAN CITING TO THIS DECISION AND ORDER,

"This plan has been prepared in accordance with Section 16.124 of the Howard County Code and the Landscape

Manual with 10 shrubs provided with landscape surety in the amount of \$400 with the DPW, Developer's

WAS GRANTED ON OCTOBER 6TH, 2016 BY BOA CASE No. 16-004V WITH THE FOLLOWING CONDITIONS:

SUBMITTED AND NOT TO ANY OTHER ACTIVITIES, USES, STRUCTURES, OR ADDITIONS ON THE PROPERTY.

DETAILING THE VARIANCE GRANTED AND NOTING THE DATE OF DECISION

3. PETITIONER SHALL OBTAIN ALL NECESSARY PERMITS.



OWNER/DEVELOPER (301) 674-5197

BOUNDARY + TOPOGRAPHIC SURVEY #6397-6399 BEECHFIELD AVENUE ELKRIDGE, MD 21075

BGE (CONTRACTOR SERVICES)

COLONIAL PIPELINE COMPANY

ANY EXCAVATION WORK BEING DONE.

CONTACT THE ENGINEER.

MISS UTILITY

BGE (UNDERGROUND DAMAGE CONTROL)

HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY, DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES 410-313-4900

13. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO

CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR

14. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING

THE START OF WORK, ALL FILLS FOR PUBLIC ROAD SURFACES REQUIRE 95% COMPACTION

15. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS

16. THIS PROJECT IS EXEMPT PER SECTION 16.1202(b)(i)(i) FOR A FOREST CONSERVATION PLAN FOR

19. COORDINATES BASED ON NAD 83 (HORIZONTAL) AND NAVD 188 (VERTICAL) MARYLAND COORDINATE SYSTEM

20. STORMWATER MANAGEMENT IS PROVIDED VIA RAIN BARRELS M-1 AND RAIN GARDENS M-7 WITH OVERFLOW SPLASH

ON-SITE SWM PRACTICES ARE SUBJECT TO THE REQUIREMENTS OF A RECORDED DECLARATION OF COVENANTS.

AS PROJECTED BY HOWARD COUNTY GEODETIC SURVEY CONTROL STATIONS NO. 38 D6 AND 38 D5.

BLOCKS IN ACCORDANCE WITH THE 2007 MDE STORMWATER DESIGN MANUAL USING ESD METHODS.

ESTABLISHMENT DETAILS AND SPECIFICATIONS FOR PROJECTS WITHIN 4 MILES OF THE BALTIMORE

OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.

17. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD AND IF A DISCREPANCY IS FOUND,

21. THIS PROJECT SHALL COMPLY WITH THE MARYLAND AVIATION ADMINISTRATION'S VEGETATIVE

DEVELOPMENT ON LAND WHICH IS LESS THAN 40,000 SQUARE FEET IN SIZE.

18. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METERING SETTINGS.

WASHINGTON INTERNATIONAL AIRPORT, DATED JULY 1, 2004.

HARWOOD

LOTS 464-467

PARCEL 873 TAX MAP 38 GRID 13 1ST ELECTION DISTRICT

ECP-16-003 LIBER 16023 FOLIO 189 HOWARD COUNTY, MARYLAND.

ZONING DISTRICT R-12

4200 FORBES BLVD, SUITE 203 LANHAM, MARYLAND 20706 (301) 429-1750 429-1757 (FAX)

1 OF 5 JOB No. 15 - 037

DRAWN

DESIGNED

CHECKED

DATE

R.P.

1" = 20'

VICINITY MAP SCALE: 1"= 2000' ADC MAP=35, GRID=C4

GEODETIC SURVEY CONTROLS

N. 557,155.429 E.1,384,992.260 EL:174.525

N. 558,378.540 E.1,386,524.200 EL:192.990

HOWARD COUNTY MONUMENT 3806

HOWARD COUNTY MONUMENT 38D5

410-531-5533

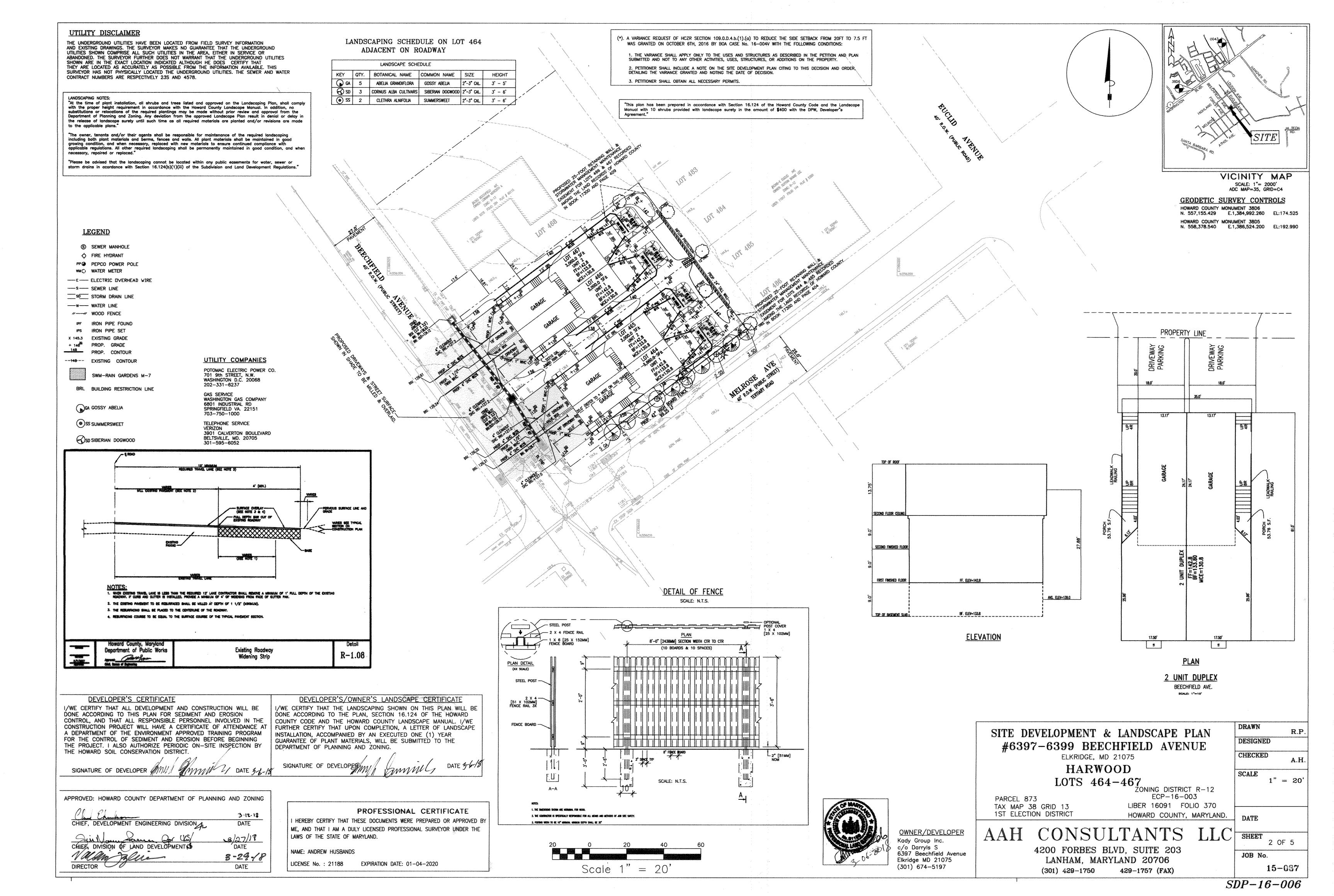
410-787-9068 1-800-257-7777

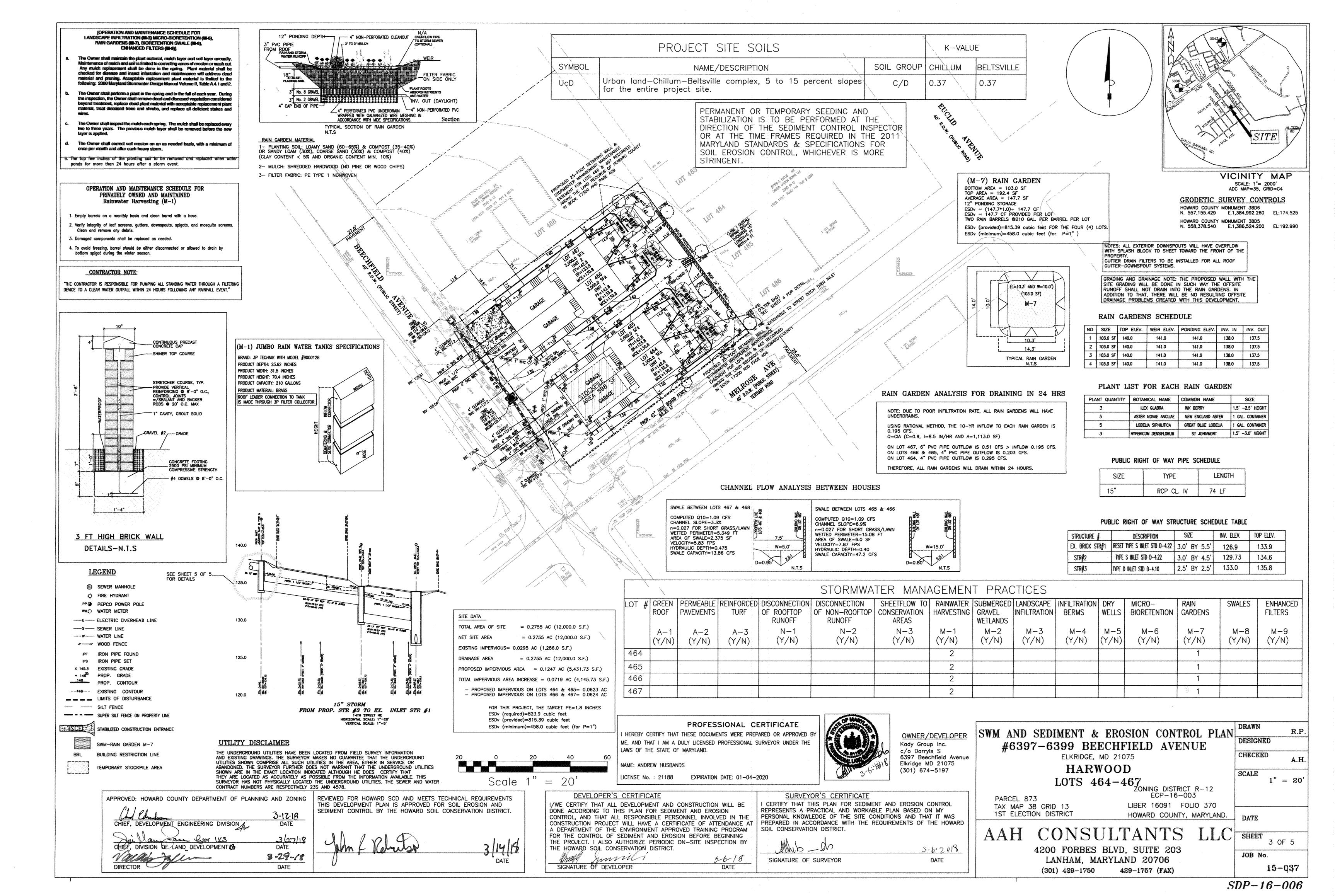
410-795-1390

410-313-2640

410-850-4620

SDP-16-006





DUST CONTROL

DEFINITION

Controlling dust blowing and movement on construction sites and roads,

PURPOSE

To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site damage, health hazards, and improve traffic

Conditions Where Practice Applies

This practice is applicable to areas subject to dust blowing and movement where on and off-site damage is likely without treatment.

SPECIFICATIONS Temporary Methods

1. Mulches— See standards for vegetative stabilization with mulches only. Mulch should be crimped or tacked to prevent blowing. 2. Vegetative Cover- See standards for temporary vegetative cover. 3. Tillage— To roughen surface and bring clods to the surface. This is an emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12" apart, spring—toothed harrows, and similar plows are examples of equipment which may produce the desired effect.

4. Irrigation— This is generally done as an emergency treatment. Site is sprinkled with water until the surface is moist. Repeat as needed. At no time should the site be irrigated to the point that runoff begins to flow. 5. Barriers - Solid board fences, silt fences, snow fences, burlap fences. straw bales, and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 10 times their height are effective in controlling soil

6. Calcium Chloride- Apply at rates that will keep surface moist. May need retreatment.

Permanent Methods

1. Permanent Vegetation— See standards for permanent vegetative cover, and permanent stabilization with sod. Existing trees or large shrubs may afford valuable protection if left in place. 2. Topsoiling- Covering with less erosive soil materials. See standards for

3. Stone- Cover surface with crushed stone or coarse gravel.

1. Agriculture Handbook 346. Wind Erosion Forces in the United States and their Use in Predictina Soil Loss. 2. Agriculture Information Bulletin 354. How to Control Wind Erosion USDA-ARS.

SEQUENCE OF CONSTRUCTION

- 1. Obtain grading permit.
- 2. Notify Howard County Department of Inspections, License and Permits at (410) 313-1855 at least 48 hours before starting any work.
- 3. Install Stabilized Construction Entrance and Silt Fence and repair any damaged existing controls to remain. 4. Rough grade site and begin house construction. (1 week)
- 5. Fine grade site. (1 week)
- 6. Upon stabilization of all disturbed areas and with the permission of the Sediemnt Control Inspector, remove all sediment control measures and stabilize any remaining
- 7. Construct primary structures, utility connections, storm drains, inlet, driveways/overlays, drainage walls and rain gardens. (20 weeks)

- -Following initial soil disturbance or any redisturbances, permanent or temporary stabilization shall be completed within: a. 3 calendar days for all perimeter sediment control structures.
- dikes, swales and all slopes greater than 3:1. b. 7 calendar days for all other disturbed areas.
- -During grading and after each rainfall, contractor will inspect and provide necessary maintenance to the sediment control measures on this plan.

SEWER HOUSE CONNECTION CHART							
Lot #	Inv. © Main	Inv. @ R/W	Ground Floor				
464	126.31	127.0	141.0				
465	126,35	127.0	141.0				
466	126.54	127.2	141.8				
467	126.61	127.2	141.8				

TEMPODADY SEEDING SHAMAD

		1	EMPORARY SEE	DING SUM	MARY		
	Se	ed Mixture (Hai	Fertillizer Rote	lima			
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	Rate (10-20-20)	Lime Rate	
1	Rye	112	3/1-5/15 and 8/1-11/15	1"	436 lb/ac (10 lb/1000 s.f.)	2 tons/ac (90 ib/1000 s.f.)	
2	Foxtail Millet	30	5/16-7/31	0.5*	7(10 10/1000 \$.1.)	(90 10/1000 \$.1.)	
3	Annual RyeGrass	40	3/1-5/15 and 8/1-10/15	0.5*			

PERMANENT SEEDING SUMMARY

			CHOOSE C	NE				
Seed Mixture (Hardness Zone <u>6b</u>) From Table 25					Fertillizer (10-20-20)			Lime Rate
Mix No.	Species	Application Rate (lb/ac)	Soil Drainage Class	Max. Height (inch)	N	P ₂ 0 ₅	K ₂ 0	
4	Creeping Red Fescue Virginia Wild Rye Canada Wild Rye	20 5 5	W - P	4 6	45 lb/ac (1 lb/ 1000 sf)	90 lb/ac (2 lb/ 1000 sf)	90 lb/ac (2 lb/ 1000 sf)	•
10	Orchardgrass Creeping Red Fescue Redtop Alsike Clover White Clover	25 10 1 3 3	₩ - SP	2 - 3				
13	Alkali Saltgrass Creeping Red Fescue Fowl Meadowgrass	20 15 2	W - P	2 - 3				

DATE

B-4-2 STANDARDS AND SPECIFICATIONS

SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

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

To provide a suitable soil medium for vegetative growth.

Conditions Where Practice Applies

Where vegetative stabilization is to be established,

A. Soil Preparation

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

Criteria

- 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

- 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.
- ii. Soluble salts less than 500 parts per million (ppm),
- iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. At exception: if lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay)
- iv. Soil contains 1.5 percent minimum organic matter by weight.
- v. Soil contains sufficient pore space to permit adequate root penetration.
- b. Application of amendments or topsoil is required if on-site soils do not meet the above
- c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.

B.12

- d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil
- e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seedbed loosening may be unnecessary on newly disturbed areas.

- 1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture
- 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.

content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

- 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 growtl d. The soil is so acidic that treatment with limestone is not feasible.
- 4. Areas having slopes steeper than 2:1 require special consideration and design.
- 5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:
- a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. Other soils may be 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 1½ inches in diameter.
- b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut sedge, poison ivy, thistle, or others as specified.
- c. Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.
- 6. Topsoil Application
- a. Erosion and sediment control practices must be maintained when applying topsoil
- b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to prevent the formation of depressions or water pockets.
- c. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading

B.13

STANDARD STABILIZATION NOTE

- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization must be completed
- a) Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes. and all slopes steeper than 3 horizontal to 1 vertical (3:1); and
- b) Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.

and seedbed preparation.

Soil Amendments (Fertilizer and Lime Specifications)

- 1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also
- be used for chemical 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 appropriate approval authority. Fertilizers must all be delivered to the site fully labeled according to
- the applicable laws and must bear the name, trade name or trademark and warranty of the producer 3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100
- mesh sieve and 98 to 100 percent will pass through a #20 mesh sieve. 4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means
- 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.

B-4-3 STANDARDS AND SPECIFICATIONS

SEEDING AND MULCHING

The application of seed and mulch to establish vegetative cover

Conditions Where Practice Applies

To protect disturbed soils from crosion during and at the end of construction

verify type of seed and seeding rate.

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

- a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to
- 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 cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less effective.
- d. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for 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 spreader
- i. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, anent 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 a weighted roller to provide good seed to soil

B.15

- b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil. HOWARD SOIL CONSERVATION DISTRICT (HSCD)
- 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
- 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; P2O3 (phosphorous), 200 pounds per acre; K2O (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 hydroseedin
- iii. Mix seed and fertilizer on site and seed immediately and without interruption. iv. When hydroseeding do not incorporate seed into the soil.

- Mulch Materials (in order of preference)
- a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dusty. Note: Use only sterile straw mulch in areas where one species of grass is desired.
- b. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into a uniform fibrous physical state.
- i. 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
- v. WCFM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum.

B.16

- 2. Application a. Apply mulch to all seeded areas immediately after seeding.
- b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose 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 at a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to attain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.

3. Anchoring

- 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 water.
 - iii. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tax II, Terra manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. Use of asphalt binders is strictly
 - iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4 to 15 feet wide and 300 to 3,000

standard detail

STANDARD SEDIMENT CONTROL NOTES

- A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID), 410-313-1855 after the future LOD and protected areas are
- marked clearly in the field. A minimum of 48 hour notice to CID must be given at the following stages:
- a. Prior to the start of earth disturbance,b. Upon completion of the installation of perimeter erosion and sediment controls, but <u>before</u> proceeding with any other earth disturbance or grading,
 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 pordination 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-4-8) in excess of 20 ft. must be benched with stable outlet. All concentrated flow, steep slope, and highly erodible areas shall receive soil stabilization matting (Sec. B-4-6).
- All sediment control structures are to remain in place, and are to be maintained in operative condition until permission for their removal has been obtained from the CID.
 - Total Area of Site: 0.3536 Area to be roofed or paved Area to be vegetatively stabilized

Site Analysis:

Area Disturbed:

- Acres Acres Acres Cu. Yds 202.67 Cu. Yds. PROPOSED CARAGE AREA
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be naired on the same day of disturbance
- Additional sediment control must be provided, if deemed necessary by the CID. The site and all controls shall be inspected by the contractor weekly; and the next day after each rain event. A written report by the contractor, made available upon request, is part of every inspection and should include:
 - Inspection date • Inspection type (routine, pre-storm event, during rain event)
 - · Name and title of inspector
 - · Weather information (current conditions as well as time and amount of last recorded · Brief description of project's status (e.g., percent complete) and/or current activities
 - Evidence of sediment discharges · Identification of plan deficiencie
 - · Identification of sediment controls that require maintenance · Identification of missing or improperly installed sediment controls · Compliance status regarding the sequence of construction and stabilization requirements
 - Photographs Monitoring/sampling Maintenance and/or corrective action performed
- Other inspection items as required by the General Permit for Stormwater Associated with Construction Activities (NPDES, MDE). Trenches for the construction of utilities is limited to three pipe lengths or that which can and shall be
- 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 (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 CID. Unless otherwise specified and approved by the HSCD,
- Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a sediment basin or other approved washout structure.

no more than 30 acres cumulatively may be disturbed at a given time

back-filled and stabilized by the end of each workday, whichever is shorter.

- Topsoil shall be stockpiled and preserved on-site for redistribution onto final grade
- 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.
- Stream channels must not be disturbed during the following restricted time periods (inclusive): Use I and IP 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.

Rev. 8.2016

MATTING COMPUTATIONS

SWALE BETWEEN LOTS 467 & 468 COMPUTED Q10=1.09 CFS CHANNEL SLOPE=3.3% n=0.027 FOR SHORT GRASS/LAWN WETTED PERIMETER=5.349 FT AREA OF SWALE=2.375 SF VELOCITY=5.83 FPS > 2.5 FPS W=5.0* SHEAR STRESS=62.4*2.25*0.033

=4.6lb/sf > 2lb/sf

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

CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE

A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM

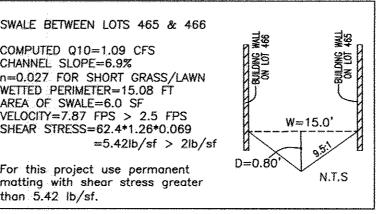
THE PROJECT, I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY

FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING

CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT

SWALE BETWEEN LOTS 465 & 466 COMPUTED Q10=1.09 CFS CHANNEL SLOPE=6.9% n=0.027 FOR SHORT GRASS/LAWN WETTED PERIMETER=15.08 FT AREA OF SWALE=6.0 SF VELOCITY=7.87 FPS > 2.5 FPS SHEAR STRESS=62.4*1.26*0.069 =5.42lb/sf > 2lb/sfFor this project use permanent

than 5.42 lb/sf.



1.5" HAIA SIPERPANE PINAL SIRFACE 9.5 NN PG 64-22, LEVEL 1 (ESAL 'HAA SIPERPAKE PANL SIRVACE 95 hab PG 64-22, Level 1 (ESAL) LO HAA SUPERPAVE MIERWEDIATE SURFACE 9.5 MW PG 64-72, LEVEL 1 (ESAL) 1.0° HMA SAFENPAVE INTOMEDIATE Sarface 9.5 hm pc 64-22, level 1 (csal) - 4.0" CRADED ACCREGATE BASE IGAR P-2 PAVING SECTION

Paving sections shown are based on a California Bearing Ratio

TAX MAP 38 GRID 13

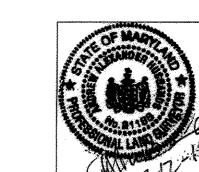
1ST ELECTION DISTRICT

(CBR) of greater than or equal to 7. Actual CBR tests may

result in modifications to the paving sections. For other CBR

values go to the Howard County Volume IV Design Manual,

R-2.01, for asociated P-2 Paving Sections.



OWNER/DEVELOPER Kady Group Inc. c/o Darryls S 6397 Beechfield Avenue Elkridge MD 21075

PROFESSIONAL CERTIFICATE

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND.

NAME: ANDREW HUSBANDS

LICENSE No.: 21188 EXPIRATION DATE: 01-04-2018 SURVEYOR'S CERTIFICATE

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

2-12-18

SWM & SEDIMENT AND EROSION CONTROL NOTES AND DETAILS #6397-6399 BEECHFIELD AVENUE

HARWOOD PARK LOTS 464-467 ZONING DISTRICT R-12 ECP-16-003 PARCEL 873 LIBER 16091 FOLIO 370

ELKRIDGE, MD 21075

4200 FORBES BLVD, SUITE 203

LANHAM, MARYLAND 20706 (301) 429-1750 429-1757 (FAX)

SDP-16-006

3/27/18 DATE 3-29-18

CHIEF, DEVELOPMENT ENGINEERING DIVISION

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

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

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: HOWARD COUNTY BUREAU OF HIGHWAYS

THE HOWARD SOIL CONSERVATION DISTRICT.

June 1

DEVELOPER'S CERTIFICATE

1-11-18

SIGNATURE OF SURVEYOR

JOB No. 15 - 037

1" = 20HOWARD COUNTY, MARYLAND. DATE

(301) 674-5197

R.P

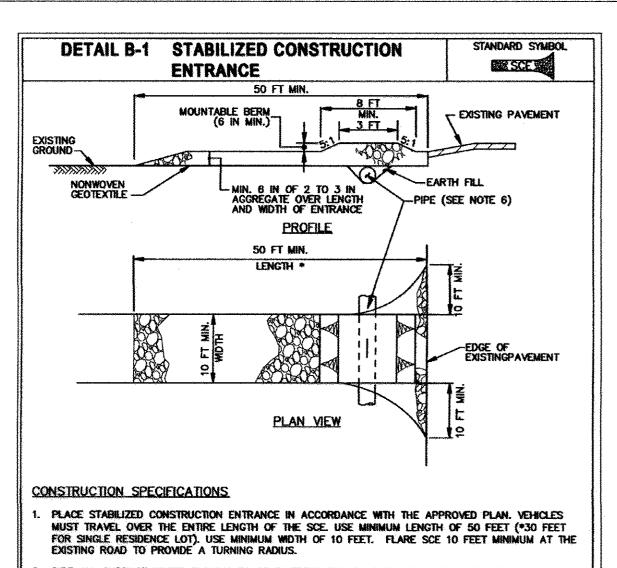
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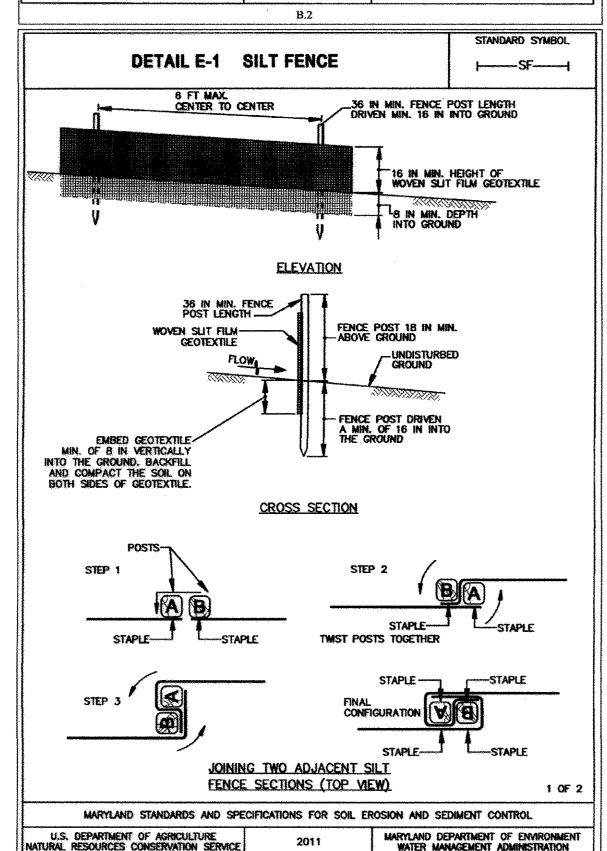
SCALE

4 OF 5

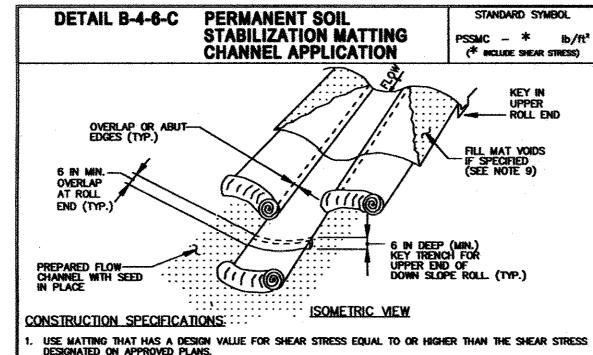


- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE, PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE, PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN, WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT
- PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS. . PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE



E.2

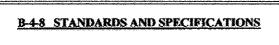


USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON-DEGRADABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION THROUGHOUT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING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

- 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 WIDE AND BE A MINIMUM OF 8 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 AT
- PERFORM FINAL GRADING, TOPSOIL 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
- 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 STRETCHING 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 TAMPING TO SECURE THE MAT END IN THE KEY.
- STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
- IF SPECIFIED BY THE DESIGNER OR MANUFACTURER AND DEPENDING ON THE TYPE OF MAT BEING INSTALLED, ONCE THE MATTING IS KEYED AND STAPLED 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 MARYLAND DEPARTMENT OF ENVIRONMEN WATER MANAGEMENT ADMINISTRATION



STOCKPILE AREA **Definition**

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 crosion, sedimentation, and changes to drainage patterns.

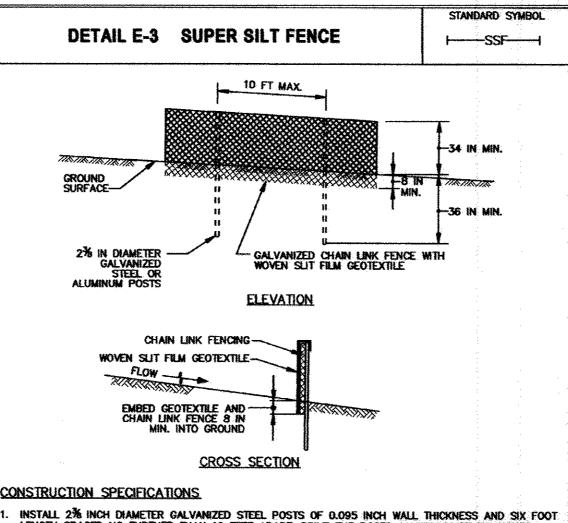
Conditions Where Practice Applies

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

- 1. The stockpile location and all related sediment control practices must be clearly indicated on the
- 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 discharge.
- Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.
- 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

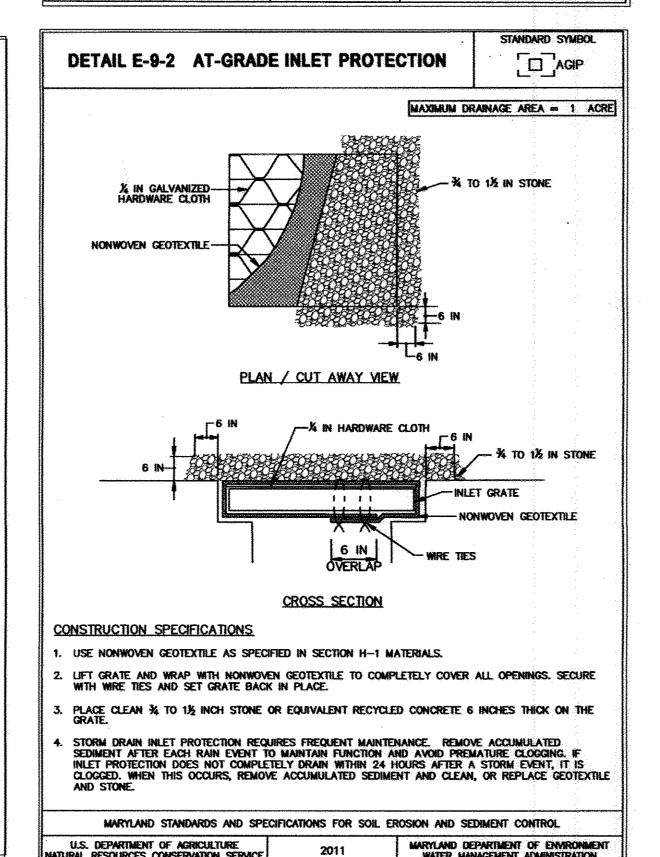
The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of crosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.

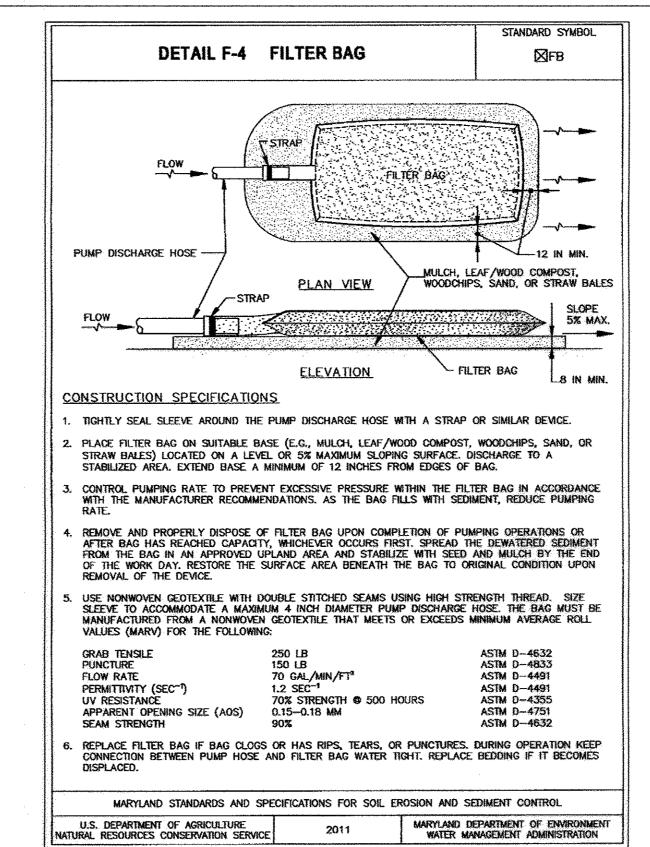
B.43

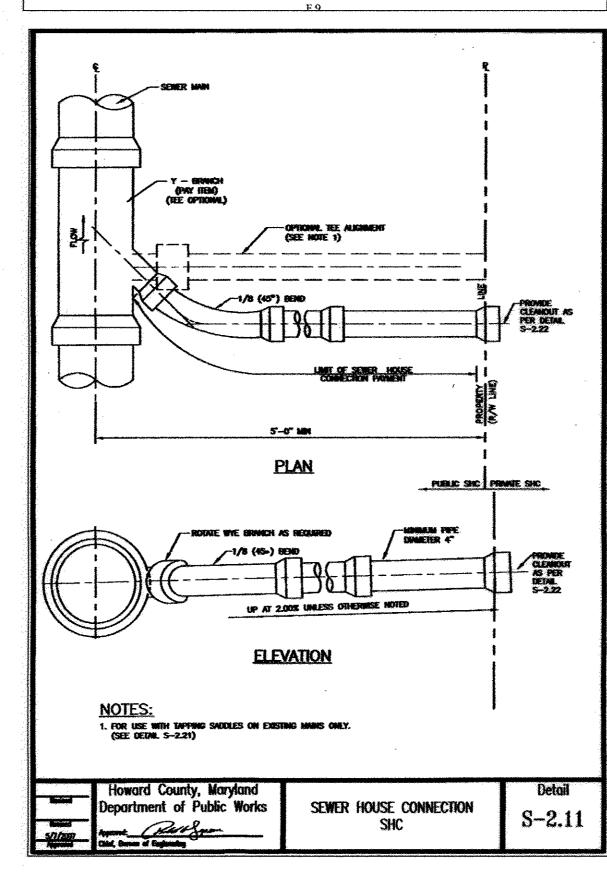


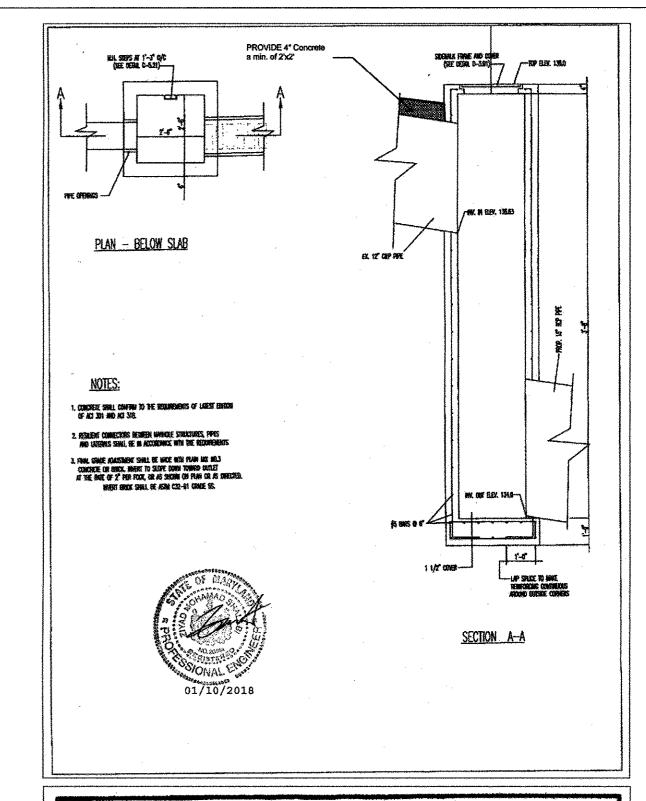
- INSTALL 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES
- FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
- 5. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE 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.
- 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.
- PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- 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.

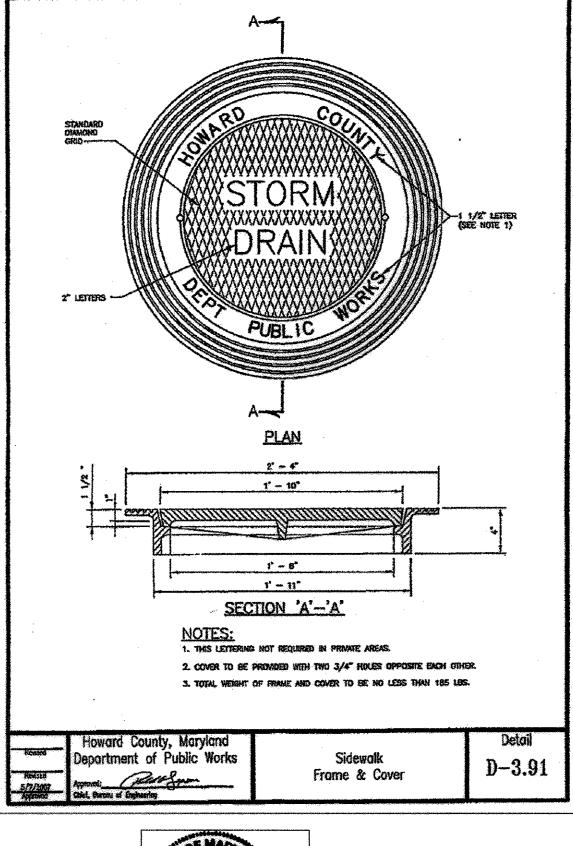
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION













OWNER/DEVELOPER Kady Group Inc. c/o Darryls S 6397 Beechfield Avenue Elkridge MD 21075 (301) 674-5197

R.P

1" = 20'

DRAWN

DESIGNED

CHECKED

PROFESSIONAL CERTIFICATE HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY

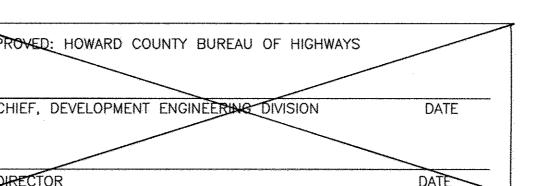
ME, AND THAT I AM A DULY LICENSED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND.

NAME: ANDREW HUSBANDS

SOIL CONSERVATION DISTRICT.

1-11-18

LICENSE No.: 21188 EXPIRATION DATE: 01-04-2018



DEVELOPER'S CERTIFICATE

THE HOWARD SOIL CONSERVATION DISTRICT.

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE

CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE

A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM

THE PROJECT. I ALSO, AUTHORIZE PERIODIC ON-SITE INSPECTION BY

FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING

CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT

DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION

SURVEYOR'S CERTIFICATE 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

SWM & SEDIMENT AND EROSION CONTROL NOTES AND DETAILS #6397-6399 BEECHFIELD AVENUE

ELKRIDGE, MD 21075 HARWOOD PARK

LOTS 464-467 ZONING DISTRICT R-12 ECP-16-003

PARCEL 873 TAX MAP 38 GRID 13 1ST ELECTION DISTRICT

LIBER 16091 FOLIO 370 HOWARD COUNTY, MARYLAND,

CONSULTANTS LLO

4200 FORBES BLVD, SUITE 203 LANHAM, MARYLAND 20706 (301) 429-1750 429-1757 (FAX)

DATE 5 OF 5 JOB No. 15 - 037

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 3.1.18 CHIEF. DEVELOPMENT ENGINEERING DIVISIONA DATE 2-29-18

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.

APPROVED: HOWARD COUNTY BUREAU OF HIGHWAYS CHIEF, DEVELOPMENT ENGINEERING DIVISION

21210 DATE SIGNATURE OF SURVEYOR

SDP-16-006