

2. Width — 10' minimum, should be flared at the existina road to provide a turning radius.

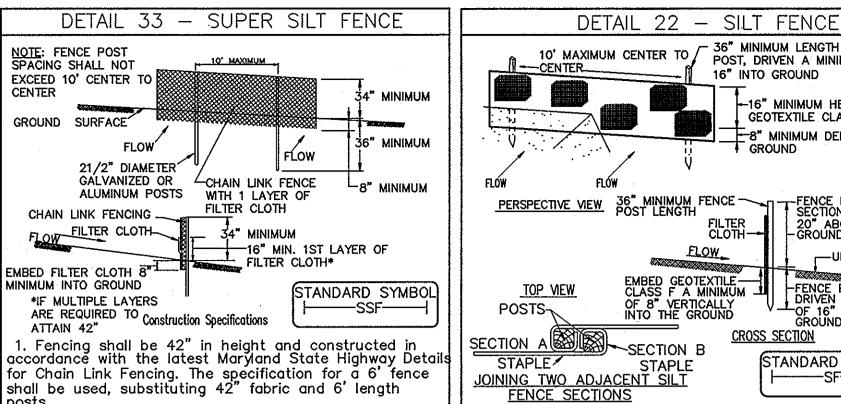
3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. ** The plan approval authority may not require single family residences to use geotextile.

4. Stone — crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance. . Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage.Pipe installed through the stabilized construction entrance sha be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey, a pipe will not be necessary. Pipe should be sized

6" minimum will be required. 5. Location — A stabilized construction entrance shall be located at every point where construction traffic enters - leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

according to the amount of runoff to be conveyed. A

U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE F - 17 - 3 WATER MANAGEMENT ADMINISTRATION



posts.
2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace Construction Specifications
Fence posts shall be a minimum of 36" long, driven and truss rods, drive anchors and post caps are not required except on the ends of the fence.

3. Filter cloth shall be fastened securely to the chain line. 16" minimum into theground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood Steel posts will be standard T or U section weighing not fence with ties spaced every 24" at the top and mid less than 1.00 pound per linear foot.

2. Geotextile shall be fastened securely to each fence

Class F: Tensile Strength

Tensile Modulus

Filtering Efficiency

sediment bypass.

Flow Rate

4. Filter cloth shall be embedded a minimum of 8" into the ground.
5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
6. Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.

21/2" DIAMETER

CHAIN LINK FENCING ___

FLOW FILTER CLOTH

*IF MULTIPLE LAYERS

U.S. DEPARTMENT OF AGRICULTURE

GÁLVANIZED OR

ARE REQUIRED TO Construction Specifications

7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F: 50 lbs/in (min.) Test: MSMT 509

Tensile Strength Tensile Modulus 4. Silt Fence shall be inspected after each rainfall event 20 lbs/in (min.) Test: MSMT 509 and maintained when bulges occur or when sediment 0.3 gal ft² /minute (max.) Test: MSMT 322 75% (min.) Test: MSMT 322 accumulation reaches 50% of the fabric height. Filtering Efficiency 75% (min.)

before seeding, if not previously loosened.

post with wire ties or staples at top and mid—section and shall meet the following requirements for Geotextile

. Where ends of geotextile fabric come together, they

0.3 gal ft² /minute (max.) Test: MSMT 322 75% (min.) Test: MSMT 322

50 lbs/in (min.)

20 lbs/in (min.)

shall be overlapped, folded and stapled to prevent

75% (min.)

- 36" MINIMUM LENGTH FENCE

16" INTO GROUND

CROSS SECTION

FLOW

EMBED GEOTEXTILE——

OF 8" VERTICALLY INTO THE GROUND

POST, DRIVEN A MINIMUM OF

-16" MINIMUM HEIGHT OF

-8" MINIMUM DEPTH IN

FENCE POST DRIVEN A MINIMUM

OF 16" INTO THE GROUND

STANDARD SYMBOL

Test: MSMT 509 Test: MSMT 509

GEOTEXTILE CLASS F

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

<u>Definition</u>
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

Purpose
To provide a suitable soil medium for vegetable growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies

I. This practice 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
- 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.

II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

Construction and Material Specifications

I. Topsoil salvaged from the existing site may be used provided that 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—SCS in cooperation with Maryland Agricultural Experimental

II. Topsoil Specifications — Soil to be used as topsoil must meet the i. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or a soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger that 1 and 1/2" in diameter.

ii. Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.

iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4—8 tons/acre (200—400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

II. For sites having disturbed areas under 5 acres: i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization — Section I — Vegetative Stabilization Methods and Materials.

III. For sites having disturbed areas over 5 acres:
i. On soil meeting topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:

a. pH for topsoil shall be between 6.0 and 7.5. If the

tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to

6.5 or higher.
b. Organic content of topsoil shall be not less than 1.5

percent by weight.

c. Topsoil having soluble salt content greater than 500 parts per million shall not be used.

d. No sod or seed shall be placed on soil 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.

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. ii. Place topsoil (if required) and apply soil amendments—specified in 20.0 Vegetative Stabilization—Section I—Vegetative Stabilization Methods

V. Topsoil Application
i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.

ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" — 8" higher in elevation. iii. Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall 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 shall be corrected in order to prevent the formation of depressions or water

iv. Topsoil shall not be place while 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 and

DATE

2010

A 16JUN2010

ACCOUNT NO.

REV.

SEDIMENT CONTROL NOTES

1. A minimum of 48 hours notice must be given to the Howard County Department of Inspection, License and Permits Sediment Control Division prior to the start of any construction (410-313-1855).

2. All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND

SEDIMENT CONTROL; and revisions thereto. 3. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes greater than 3:1, (b) 14 days as to all other disturbed or graded areas on the project site. 4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 7, HOWARD COUNTY

DESIGN MANUAL, Storm Drainage. 5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
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 Howard County Sediment Control Inspector.

7. Site Analysis: 4.312 Acres +/-Total Area_ 0.026 Acres +/-Area Disturbed_ Area to be roofed or paved_ — Acres +/-Area to be vegetatively stabilized____ – Acres +/-Total Fill

8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance. 9. Additional sediment controls must be provided. i deemed necessary by the Howard County Sediment Control Inspector.

Offsite waste/borrow area location

10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection

11. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is

* Earthwork quantities are solely for the purpose of calculating fees. Contractor to verify all quantities prior to the start of construction.

** To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

PROFESSIONAL CERTIFICATION

hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. #22418, Expiration Date: 07/29/2011

> APPLICANT/OWNER/DEVELOPER BALTIMORE GAS AND ELECTRIC COMPANY SPRING GARDENS COMPLEX 1699 LEADENHALL STREET BALTIMORE, MARYLAND 21230 ATTN: GREG KAPPLER (410) 470-6445

PREVIOUS FILE #'S: FDP-PHASE-6, F-70-036, F-68-70 AND F-70-87

PLAT BOOK 12 FOLIO 33 - LOT 1; PLAT 300K 15 FOLIO 65 - LOTS 1A, 2, 2A; PLAT BOOK 18 FOLIO 75 - 60' ACCESS EASEMENT

5TH ELECTION DISTRICT, HOWARD COUNTY. MARYLAND

TAX MAP 35 GRID 6 PARCEL 271 LOTS 1A, 2, 2A L.505 F.614; TAX MAP 36 PARCEL 81 LOT 1A L.468 F.621

APPROVED AUTOCAD BGE WILDE LAKE COLUMBIA, TOWN CENTER. ENGINEERING SECTION 6. AREA 1 SDP S&E DETAILS & NOTES PROJ. ENG. Addition of monopole and (LOTS 1, 1A, 2, AND 2A) PROJ. MGR. SHEET 2 OF 2 PRIN. ENG. SUPV. ENG. _ 230 - 13KV SUBSTATION DESIGN GROUP WILDE LAKE DESIGNED RTMc

SUBSTATION & SYSTEM PROTECTION

SDP-71-05C

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

SOIL ANTIDMENTS: In lieu of soil test recommendations, use the following schedule: Apply 2 tons per acre dolomitic limestone(92 lbs/1000 s.f.) And 900 lbs. / acre (20.7 lbs./1000s.f.) of 10-20-20 before seeding. Harrow or disc into upper 3 in. Of soil.

SEEDING: Apply a mixture of Turf Type Tall fescue(80%) and Hard Fescue (20%) in accordance with seeding dates and rates shown in the Permanent Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below and apply permanent seeding when within proper seeding dates.

seeding when within proper seeding dates.

MULCHING: Immediately following seeding, apply a uniform 1— 2 in. Deep layer of un—rotted small grain straw at a rate of 2 tons/acre. (Apply 2.5 Tons/acre if a mulch anchoring tool is used).Straw may be anchored with wood cellulose fiber at a rate of 750 lbs. / acre mixed at a ratio of 50 lbs. Of wood fibre/ 100 gal. of water. Synthetic liquid binders such as Terra Tax II, Acrylic DLR (Agro— Tack), DCA—70, Petroset and other approved equals may be used at rates recommended by the manufacturers.

		Permaner	nt Seed	ing Su	ımmaı	ry		
	Seed Mixture (Hardiness Zone <u>7a and 6b</u>) From Table 25					Fertilizer Rate (10-20-20)		
lo.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P205	K20	

3/1-5/15

8/15-11/15

0.5 in.

120 30

Tall Fescue (80%)

Hard Fescue (20%)

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED. **Temporary Seeding Summary** Fertilizer Rate Seed Mixture (Hardiness Zone <u>6a and 7a</u>) Lime (10-10-10)Rate From Table 26 Seeding Depths Seeding Application Species Rate (lb/ac) Dates

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means

SOIL AMENDMENTS: In lieu of soil test recommendations, use the following schedule: Apply 2 tons per acre dolomitic limestone(92 lbs/1000 s.f.) And 600 lbs. / acre (15 lbs./1000s.f.) of 10-10-10 before seeding.

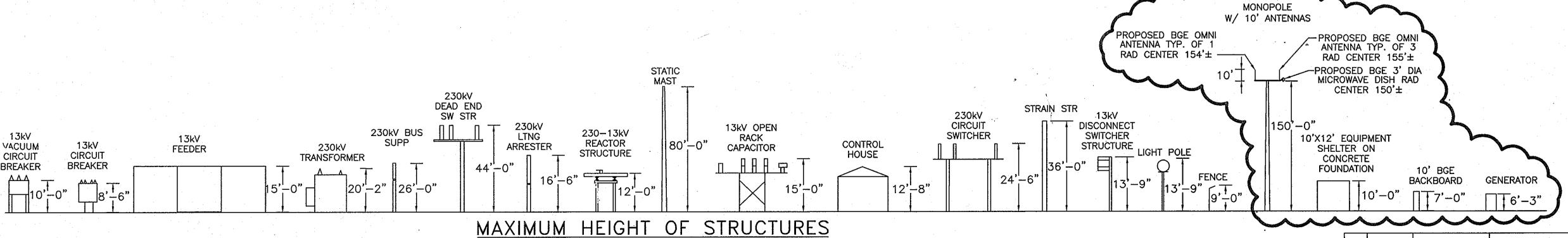
Harrow or disc into upper 3 in. Of soil.

SEEDING: Apply the Maryland State Highway approved seed mixture of Barley or Rye plus Foxtail Millet in accordance with seeding dates and rates shown in the Temporary Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below.

MULCHING: Immediately following seeding, apply a uniform 1— 2 in. Deep layer of un—rotted small grain straw at a rate of 2 tons/acre. (Apply 2.5 Tons/acre if a mulch anchoring tool is used). Straw may be

anchored with wood cellulose fiber at a rate of 750 lbs. / acre mixed at a ratio of 50 lbs. Of wood fibre/ 100 gal. of water. Synthetic liquid binders such as Terra Tax II, Acrylic DLR (Agro— Tack), DCA—70, Petroset and other approved equals may be used at rates recommended by the manufacturers.

Barley or 1/4 in-600 1b/ac 2 tons/ac 2/1-11/30 (7a) Rye plus [151b/1000sf] (100lb/1000sf) 3.5lbs/1000sqf) 1/2 in Foxtail Millet



THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND HOWARD_SED

Lime

Rate

ENGINEERS CERTIFICATE "I 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. 6/18/2010 (t/ScV) acharia SIGNATURE OF ENGINEER ZACHARIA Y. FISCH

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. OF DEVELOPER 6-18-10 DATE

1"=50' ["[[[[[]]]][[[]]][[[]]][[[]]][[[]]][[[]]][[][[][[]][[]][[]][[]][[]][[]][[]][[]][[]][[][[]][[]][[]][[]][[]][[][[]][[]][[]][[]][[]][[]][[]][[]][[]][[]][[]][[][[]][[]][[]][[]][[]][[][[]][[]][[]][[]][[]][[]][[]][[][[]][[]][[]][[]][[]][[][[]][[]][[]][[]][[]][[][[]][[]][[]][[]][[][[]][[]][[]][[][[]][[]][[]][[][[]][[]][[]][[]][[][[]][[]][[]][[]][[][[]][[]][[]][[]][[]][[][[]][[]][[]][[]][[][[]][[]][[]][[]][[]][[][[]][[]][[]][[]][[]][[][[]][[]][[]][[]][[][[]][[]][[]][[]][[]][[]][[][[]][[]][[][[]][[]][[][[]][[]][[][[]][[]][[]][[][[]][[]][[][[]][[]][[][[]][[]]

7/20/10 DATE

M:\BGE Wilde Lake 3625\dwg\SDP\3625_S2_REV SDP.DWG, 6/17/2010 3:27:08 PM, aberlett, 1:1

IPPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

(41b/

1000sf)

(2.01b/

1000sf)

(41b/

1000sf)

1"=20"

general notes.

DESCRIPTION

RECONSTITUTE SITE

DEVELOPMENT PLAN

support structures and

DRAWN MB CHECKED _ RTMc APPROVED DATE 25JUL1989

SCALE 1" = 30' - 0"