

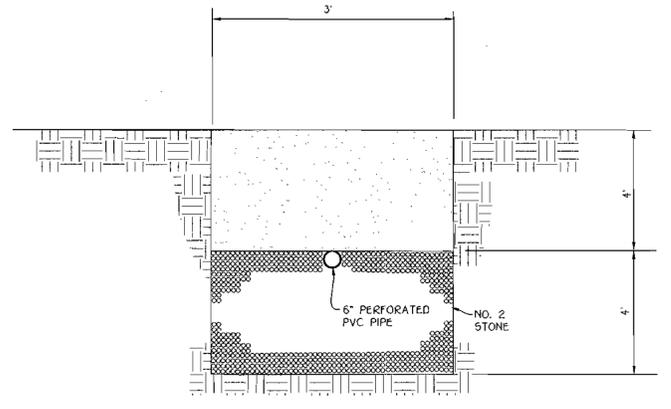
SEPTIC TRENCHES		
NO.	LENGTH	PIPE INVERT
1	42'	636.00
2	64'	633.00
3	44'	632.00

MSHA STORM DRAIN NOTE

- The proposed CMP horizontal bend angle connecting the existing CMP to the proposed inlet I-2 shall be field-verified by the contractor and adjusted as necessary prior to fabrication. All proposed joints shall be water tight.
- Inlet tops shall follow the road grade.

OPERATION AND MAINTENANCE SCHEDULE FOR BIO-RETENTION AREAS (F-6)

- Annual maintenance of plant material, mulch layer and soil layer is required. Maintenance of mulch and soil is limited to correcting areas of erosion or wash out. Any mulch replacement shall be done in the spring. Plant material shall be checked for disease and insect infestation and maintenance will address dead material and pruning.
- Schedule of plant inspection will be twice a year in spring and fall. This inspection will include removal of dead and diseased vegetation considered beyond treatment, treatment of all diseased trees and shrubs and replacement of all deficient stakes and wires.
- Mulch shall be inspected each spring. Remove previous mulch layer before applying new layer once every 2 to 3 years.
- Soil erosion to be addressed on an as needed basis, with a minimum of once per month and after heavy storm events.



TYPICAL SEPTIC TRENCH DETAIL
NO SCALE

- HEALTH DEPARTMENT GENERAL NOTES:**
- EXISTING PROPERTY IS ZONED RC-DEO.
 - PROPOSED USE: ANIMAL HOSPITAL
 - TOTAL NUMBER OF STAFF: 5
 - NO GROOMING OF ANIMALS WILL BE DONE WITHIN THIS FACILITY.
 - THE MAXIMUM POTENTIAL SEWAGE DESIGN FLOW ALLOCATION IS 500 GALLONS/DAY.
 - THE SIZE OF THE SEWAGE EASEMENT IS APPROXIMATELY 4,000 SQ.FT.
 - ALL EXISTING WELLS AND SEPTIC SYSTEMS ON THE SUBJECT PROPERTY AND WITHIN 100 FEET OF PROPERTY BOUNDARIES HAVE BEEN SHOWN.
 - LENGTH OF TRENCHES REQUIRED: 500/4 = 145 L.F. LENGTH OF TRENCHES PROVIDED: 150 L.F.
 - THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.
 - THE EXISTING SEPTIC TANK WILL BE REMOVED AND REPLACED WITH A 1000 GALLON SEPTIC TANK WITH TRAFFIC BEARING CAPACITY.
 - THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY HEALTH DEPARTMENT (410) 313-2640 48 HOURS PRIOR TO ABANDONMENT OF THE EXISTING DRY WELL AND WILL BE ABANDONED IN ACCORDANCE WITH HEALTH DEPARTMENT PROCEDURES.



OWNER/DEVELOPER
BRICK OFFICE, LLC
14251 TRIADAPPA ROAD
GLENELG, MARYLAND 21737
(410) 489-4069

DATE	DESCRIPTION	REVISION BLOCK

ENGINEER'S 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.
Signature of Engineer (CHARLES J. CROVO SR.) *7/1/04* Date

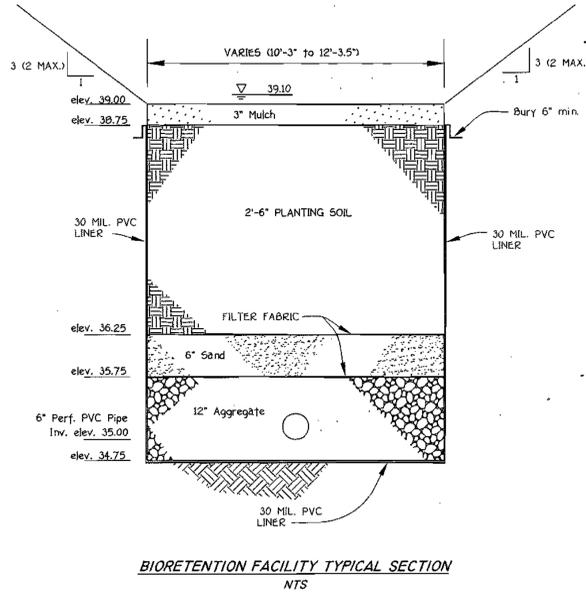
DEVELOPER'S CERTIFICATE
I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training 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 (VALERIE BORNEHANN) *7/1/04* Date

Reviewed by HOWARD SCD and meets Technical Requirements.
7/1/04 Date
U.S.D.A. Natural Resources Conservation Service
This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
7/1/04 Date
HOWARD SCD
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
8/15/04 Date
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chief, Development Engineering Division *7/20/04* Date
Chief, Division of Land Development *8/19/04* Date
Director *8/10/04* Date

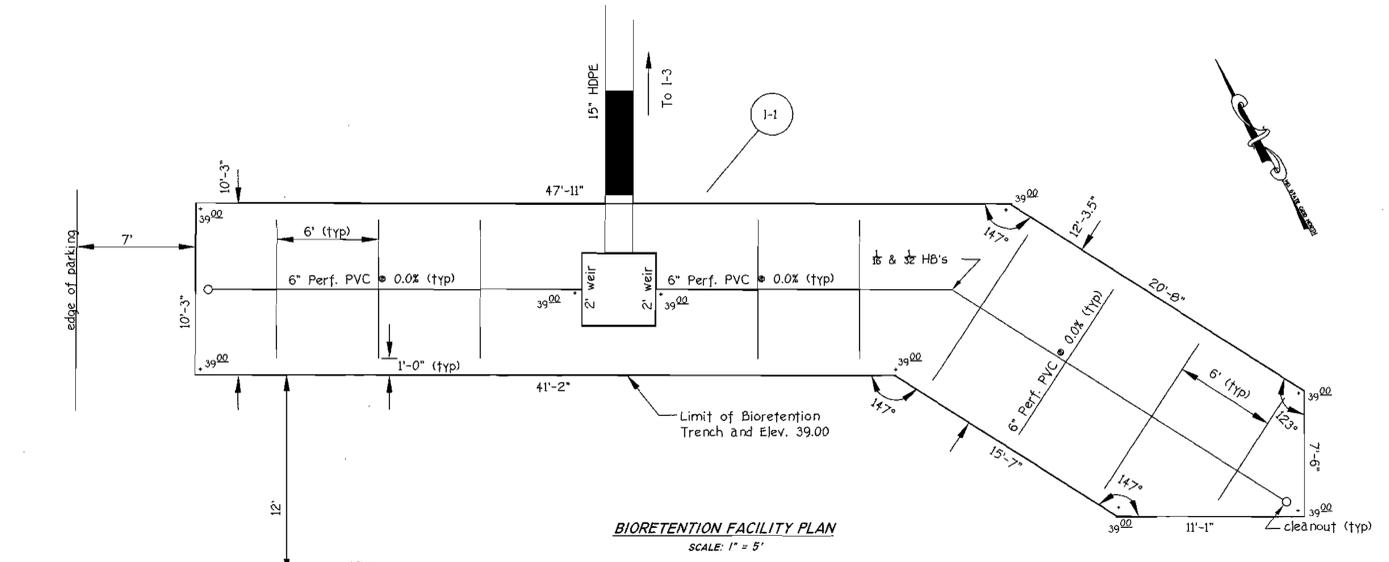
SUBDIVISION	SECTION/AREA	PARCEL
GLENELG ANIMAL HOSPITAL	N/A	161
DEED REF.	BLOCK NO.	ZONE
5981/0261	22	RC-DEO
TAX/ZONE	ELEC. DIST.	CENSUS TR.
B	FOURTH	6040.02
WATER CODE	SEWER CODE	
N/A	N/A	

SITE DEVELOPMENT AND GRADING PLAN
GLENELG ANIMAL HOSPITAL
TAX MAP No.: 8 GRID No.: 22 PARCEL No.: 161
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 20' DATE: MAY 21, 2004
SHEET 2 OF 8
SDP 04-63



BIORETENTION BMP NOTES AND SPECIFICATIONS

- Refer to the 2000 Maryland SWM Design Manual for bioretention specifications (pg. B.3.7) not listed herein and for additional information. The specifications listed below supersede specifications listed in Manual.
- The Bioretention BMP materials are as follows:
 - Planting Soil (Treated Earth): 2 parts sand, 1 part vermiculite, 2 parts loam (approved by Geotechnical engineer) - covered with 3" mulch grass seed and light straw covering. See planting schedule this sheet for grass seed.
 - Sand: ASTM C33 "concrete sand" - very clean; free of ALL dirt and debris.
 - PVC pipe: Schedule 40, perforated pipe portions shall meet AASHTO M36 Class 2 perforation specifications (i.e., uniformly spaced 3/8" diameter openings totaling at least 33 sq. in. per sq. ft. of pipe surface (47 - 3/8" diameter perforations per LF of 6" pipe satisfies this requirement). 14' length 6" x 500. Cap ends.
 - Stone aggregate: washed "pea" gravel (3/8"); aggregate must be uniform in size and free of fines, dirt and debris. This stone shall also be used for the stone diaphragm except the top 9" of the stone diaphragm shall be 4" - 7" stone tightly placed.
 - Geotextile: Mirafi 140N or approved equal.
 - Mulch: shredded, well-aged (6-12 months) hardwood mulch; no wood chips or pine mulch.
- The Contractor shall under no circumstances allow surface drainage into the Bioretention BMP until all upstream areas have been stabilized (i.e., paved or established vegetation).
- Boards shall not be left in place during the construction of the Bioretention BMP.
- Geotextile (filter fabric) shall be placed between stone/sand interface and against excavated surfaces. Scarify earth prior to geotextile placement. Install geotextile per manufacturer's specifications/recommendations and use a 2 ft minimum overlap and notch ends with a 6" minimum bury or equivalent anchoring method.
- The contractor shall provide independent certification (during as-built stage) that the soils meet these specifications.
- The bioretention facility shall be vegetated in accordance with the planting plan as shown on this sheet.
- Install cleanouts (solid PVC pipe) as shown. Cleanout tops shall extend 3' above top of mulch.



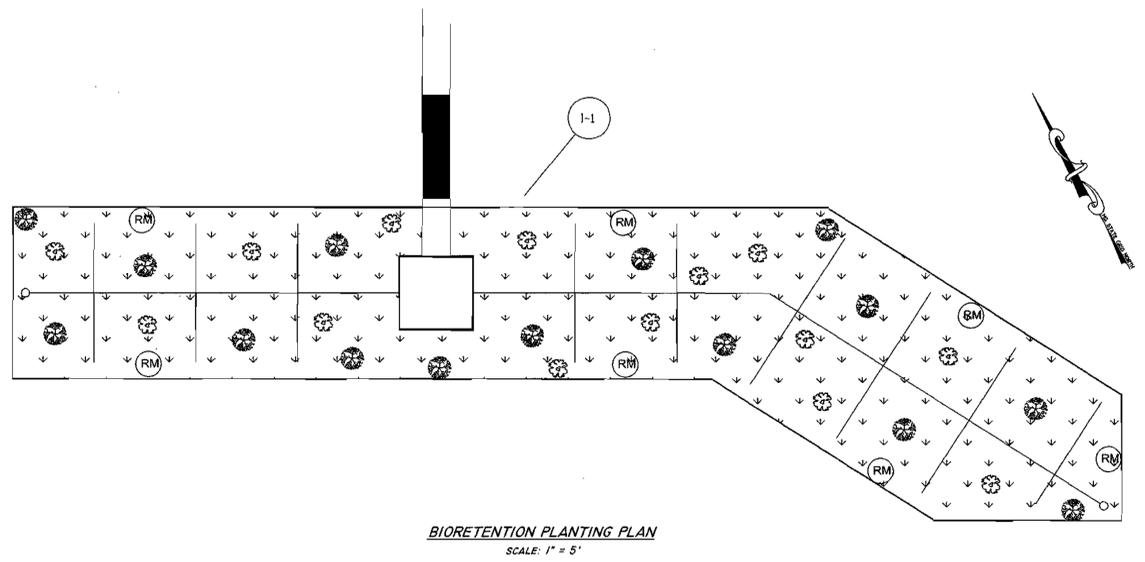
BIORETENTION FACILITY NOTES:

- All angles are 90° unless noted.
- See typical section and specifications this sheet.

BIORETENTION PLANTING SCHEDULE

PLANT NAME	FORM	QUANTITY	SYMBOL
CREeping BENTGRASS (<i>Agrostis palustris</i>)	Grass	a	↓ ↓ ↓ ↓
SWITCH GRASS (<i>Panicum virgatum</i>)	Grass	a	↓ ↓ ↓ ↓
RED MAPLE (<i>Acer rubrum</i>)	Tree	7	(RM)
WITCH HAZEL (<i>Hamelis virginiana</i>)	Shrub	15	(SM)
INKBERRY (<i>Ilex glabra</i>)	Shrub	15	(SM)

a As needed to provide a good healthy cover - seed quantity shall be 50 % of total grass seed.

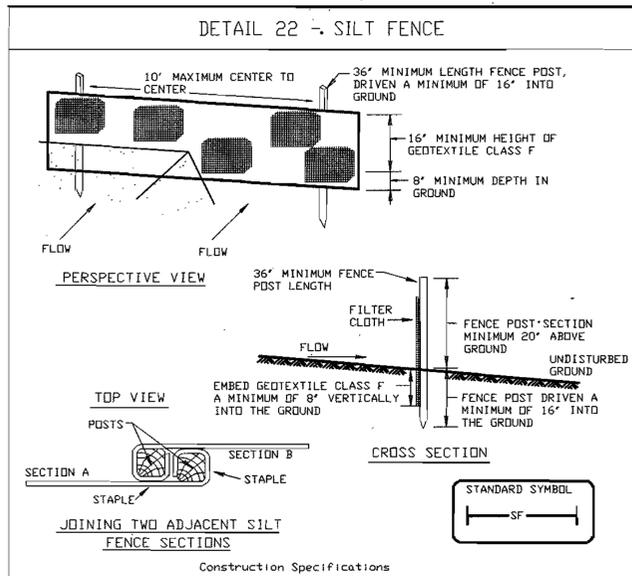


BIORETENTION PLANTING NOTES:

- Refer to Planting schedule this sheet.
- Plants shall be guaranteed for one year from date of as-built acceptance by Howard County.



<p>FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK - 1872 BALTIMORE NATIONAL PIKE ELICOTT CITY, MARYLAND 21042 410-461-2295</p>		<p style="text-align: center;">ENGINEER'S CERTIFICATE</p> <p>"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."</p> <p style="text-align: right;">Signature of Engineer (CHARLES J. CROVO SR.) <i>CC</i> 7/1/04 Date</p> <p style="text-align: center;">DEVELOPER'S CERTIFICATE</p> <p>"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."</p> <p style="text-align: right;">Signature of Developer (VALERIE BORNEMANN) <i>VB</i> 7/1/04 Date</p>	<p>Reviewed for HOWARD SCD and meets Technical Requirements.</p> <p>U.S.D.A.-Natural Resources Conservation Service This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.</p> <p>Howard SCD Date <i>CS</i></p> <p>APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS</p> <p><i>RB</i> 5/15/04 COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT</p>	<p>APPROVED: DEPARTMENT OF PLANNING AND ZONING</p> <p><i>MD</i> 7/20/04 Chief, Development Engineering Division</p> <p><i>CS</i> 8/10/04 Chief, Division of Land Development</p> <p><i>MS</i> 8/10/04 Director</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SUBDIVISION</td> <td>SECTION/AREA</td> <td>PARCEL</td> </tr> <tr> <td>GLENELG ANIMAL HOSPITAL</td> <td>N/A</td> <td>161</td> </tr> <tr> <td>DEED REF.</td> <td>BLOCK NO.</td> <td>TAX/ZONE</td> </tr> <tr> <td>5901/0261</td> <td>22</td> <td>RC-DEO B</td> </tr> <tr> <td>ELEC. DIST.</td> <td>FOURTH</td> <td>CENSUS TR.</td> </tr> <tr> <td>6040.02</td> <td></td> <td>6040.02</td> </tr> <tr> <td>WATER CODE</td> <td>SEWER CODE</td> <td></td> </tr> <tr> <td>N/A</td> <td>N/A</td> <td></td> </tr> </table>	SUBDIVISION	SECTION/AREA	PARCEL	GLENELG ANIMAL HOSPITAL	N/A	161	DEED REF.	BLOCK NO.	TAX/ZONE	5901/0261	22	RC-DEO B	ELEC. DIST.	FOURTH	CENSUS TR.	6040.02		6040.02	WATER CODE	SEWER CODE		N/A	N/A		<p style="text-align: center;">STORMWATER MANAGEMENT NOTES AND DETAILS</p> <p style="text-align: center;">GLENELG ANIMAL HOSPITAL</p> <p>TAX MAP No.: 8 GRID No.: 22 PARCEL No.: 161 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: 1" = 20" DATE: MARCH 10, 2004 SHEET 7 OF 8</p> <p style="text-align: right;">SDP 04-63</p>
SUBDIVISION	SECTION/AREA	PARCEL																											
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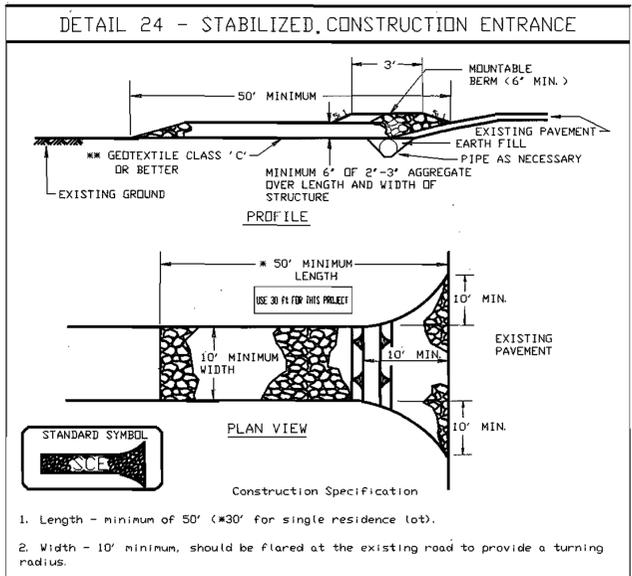


Construction Specifications

- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. 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 weighting not less than 1.00 pond per linear foot.
- Geotextile 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:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft ² /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

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Construction Specifications

- Length - minimum of 50' (*30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- 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.
- 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 shall 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 according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

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20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

Using vegetation as cover for barren soil to protect it from forces that cause erosion.

Vegetative stabilization specifications are used to promote the establishment 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 run-off to downstream areas, and improving wildlife habitat and visual resources.

CONDITIONS WHERE PRACTICE APPLIES

This practice shall be used on eroded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration (up to one year), and Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary Soil Stockpiles, cleared areas being left idle between construction phases, earth ditches, etc. and for Permanent Seeding are lawns, dams, cut and fill slopes and other areas at final grade, former stockpile and staging areas, etc.

EFFECTS ON WATER QUALITY AND QUANTITY

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Vegetation over time will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating these substances present within the root zone. Sediment control devices must remain in place during grading, seeded preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS

- Site Preparation
 - Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.
 - Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
 - Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed areas over 5 acres.
- Soil Amendments (Fertilizer and Lime Specifications)
 - Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.
 - Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the appropriate authority. Fertilizers shall all be delivered to the site fully labeled according to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warranty of the producer.
 - Lime materials shall be ground limestone hydrated or burnt lime may be substituted which contains at least 50% total oxides (calcium oxide plus magnesium oxide). Limestones shall be ground to such fineness that at least 50% will pass through a #100 mesh sieve and 98-100% will pass through a #20 mesh sieve.
 - Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.
- Seeded Preparation
 - Temporary Seeding
 - Seeded preparation shall consist of loosening soil to a depth of 3" to 5" 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 should not be rolled or dragged smooth, but left in the roughened condition. Seeded areas (greater than 30') should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
 - Apply fertilizer and lime as prescribed on the plans.
 - Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.
 - Permanent Seeding
 - Minimum soil conditions required for permanent vegetative establishment:
 - Soil pH shall be between 6.0 and 7.0
 - Soluble salts shall be less than 500 parts per million (ppm)
 - The soil shall contain less than 40% clay, but enough fine grained material (>30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if loesslike or sericea loesslike soils to be planted, then a siltier soil (<30% silt plus clay) would be acceptable.
 - Soil shall contain 1.5% minimum organic matter by weight
 - Soil must contain sufficient pore space to permit adequate root penetration
 - If these conditions cannot be met by soils on site, adding topsoil is required in accordance with Section 21 Standard and Specification for Topsoil.
 - Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.
 - Apply soil amendments as per soil test or as included on the plans.
 - Mix soil amendments into the top 3-5" of topsoil by disking or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Where site conditions will not permit normal seeded preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 1-3" of soil should be loose and friable. Seeded loosening may not be necessary on newly disturbed areas.
- Seed Specifications
 - All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory. All seed used shall have been tested within the 6 months immediately preceding the date of sowing on this job.
 - Note: Seed tags shall be made available to the inspector to verify type and rate of seed used.
 - Inoculant - The inoculant for treating legume seed in the seed mixtures shall be a pure culture of nitrogen-fixing bacteria as required for the species. Inoculants shall not be used later than the date indicated on the container. Add fresh inoculant as directed on 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 75-80° F. can weaken bacteria and make the inoculant less effective.
- Methods of Seeding
 - Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeded, or a cultipacker seeder.
 - If fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: nitrogen maximum of 100 lbs. per acre total of soluble nitrogen (P205 (phosphorus) 200 lbs/acre; K2O (potassium) 200 lbs/acre.
 - Lime - use only ground agricultural limestone, up to 3 tons per acre may be applied by hydroseeding. Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
 - Seed and fertilizer shall be mixed on site and seeding shall be done immediately and without interruption.
 - Dry Seeding: This includes use of conventional drop or broadcast spreaders.
 - Seed spread dry shall be incorporated into the subsoil at the rates prescribed on the Temporary or Permanent Seeding Summaries or Tables 265 or 26. The seeded area shall then be rolled with a weighted roller to provide good seed to soil contact.
 - Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.
 - Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.
 - Cultipacker seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seeded must be firm after planting.
 - Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.
- Mulch Specifications (in order of preference)
 - Straw shall consist of thoroughly threshed wheat, rye or oat straw, reasonable bright in color, and shall not be musty, moldy, caked, decayed, or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law.
 - Wood Cellulose Fiber Mulch (WCFFM)
 - WCFFM shall consist of specially prepared wood cellulose processed into a uniform fibrous chemical slurry.
 - WCFFM shall be dried green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly seeded slurry.
 - WCFFM, including dye, shall contain no germination or growth inhibiting factors.
 - WCFFM materials shall 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 shall form a blotter-like ground cover, an application, having moisture absorption and percolation properties and shall cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings. WCFFM material shall contain no elements or compounds at concentration levels that will be phytotoxic.
 - WCFFM must conform to the following physical requirements: fiber length to approximately 10 mm., diameter approximately 1 mm., pH range of 4.0 to 8.5, ash content of 1.5% maximum and water holding capacity of 50% minimum.
 - Only sterile straw mulch should be used in areas where one species of grass is desired.

SEEDING SPECIFICATIONS ARE THE MINIMUM REQUIRED FOR SEDIMENT CONTROL. REFER TO PROJECT SPECIFICATIONS FOR SEEDING REQUIREMENTS FOR OTHER AREAS OF THE SITE.

SEQUENCE OF CONSTRUCTION

- OBTAIN A GRADING PERMIT.
- NOTIFY "MISE UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY THE HOWARD COUNTY DEPARTMENT OF LICENSES AND PERMITS (DLP) AT 410-313-1330 24 HOURS BEFORE STARTING WORK.
- INSTALL PERIMETER CONTROLS (STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE). (2 DAYS)
- WITH PERMISSION FROM SEDIMENT CONTROL INSPECTOR, CLEAR & GRUB THEN GRADE SITE TO SUBGRADE. (3 DAYS)
- INSTALL STORM DRAINAGE, RELOCATE/CONSTRUCT UTILITIES AND INSTALL SEPTIC FIELD TRENCHES. (4 WEEKS)
- PAVE DRIVEWAY AND OVERLAY EXISTING DRIVE AS NECESSARY. (1 WEEK)
- WIDEN MD 144. DO ONLY AS MUCH WORK THAT CAN BE STABILIZED WITH COMPACTED GRADED AGGREGATE BASE AT THE END OF THE WORK DAY. (1 WEEK)
- FINI GRADE SITE, STABILIZE WITH PERMANENT SEEDING AND INSTALL LANDSCAPING. (2 DAYS)
- INSTALL BIORETENTION BMP AFTER ALL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED (i.e., LAND SURFACE COVERED WITH ESTABLISHED VEGETATION OR BASE PAVING). (1 WEEK)
- THE SEDIMENT CONTROL DEVICES SHALL BE REMOVED (STABILIZED AREA) WITH PERMISSION FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. (1 DAY)
- NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL DEVICES. THE INSPECTION SHALL BE ON A DAILY BASIS AND AFTER EACH RAINFALL.

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1.
 - 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 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 (SEC. 51), SOIL (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 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.
- SITE ANALYSIS:

TOTAL AREA OF SITE (NOT INCLUD. R/W)	1.0	ACRES
AREA DISTURBED	0.9	ACRES
AREA TO BE ROOFED & PAVED	0.42	ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.48	ACRES
TOTAL CUT	200	CU.YDS.
TOTAL FILL	200	CU.YDS.
OFFSITE WASTE/BORROW AREA LOCATION	N/A	CU.YDS.
OFFSITE WASTE/BORROW AREA MUST HAVE AN APPROVED SEC PLAN		
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 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 SHORTER.

OWNER/DEVELOPER
BRICK OFFICE, LLC
14251 TRIADLEPHIA ROAD
GLENELG, MARYLAND 21737
(410) 495-4059

ENGINEER'S 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.

Signature of Engineer (CHRISTOPHER J. CROVO SR.) *[Signature]* DATE 7/11/04

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 (VALERIE BORNEMANN) *[Signature]* DATE 7/11/04

Reviewed for HOWARD SCD and meets Technical Requirements.

U.S.D.A. Natural Resources Conservation Service *[Signature]* DATE 7/27/04

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SCD *[Signature]* DATE 7/27/04

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER *[Signature]* DATE 8/15/04
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED DEPARTMENT OF PLANNING AND ZONING

[Signature] DATE 7/27/04
Chief, Department Engineering Division MWD

[Signature] DATE 8/10/04
Chief, Division of Land Development

[Signature] DATE 8/10/04
Director

SUBDIVISION	SECTION/AREA	PARCEL
GLENELG ANIMAL HOSPITAL	N/A	161
DEED REF.	BLOCK NO.	ZONE
5981/0261	22	RC-DEO
WATER CODE	SEWER CODE	
N/A	N/A	

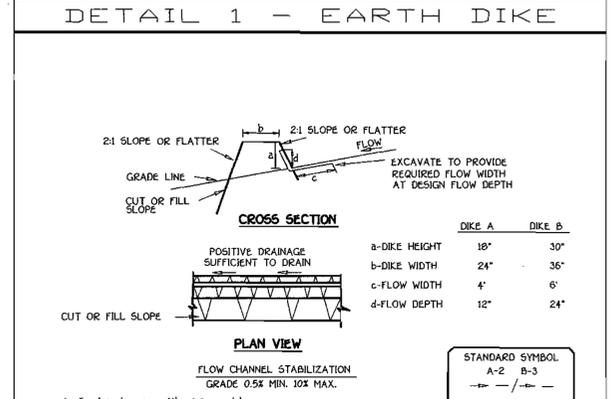
SEDIMENT & EROSION CONTROL NOTES AND DETAILS

GLENELG ANIMAL HOSPITAL

TAX MAP No.: 8 GRID No.: 22 PARCEL No.: 161
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1" = 20' DATE: MARCH 10, 2004
SHEET 8 OF 8

SDP 04-63



Construction Specifications

- Seed and cover with straw mulch.
- Seed and cover with Erosion Control Matting or line with sod.
- 4" - 7" stone or recycled concrete equivalent pressed into the soil 7" minimum.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE A - 4 - 6	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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