

LAYOUT _____ INSP 4 _____
INSP 2 _____ INSP 5 _____
INSP 3 _____ INSP 6 _____

ISSUE DATE: 3/24/2005

P 522050

APPROVAL DATE: 7/28/05

A 519017-A

PERMIT
INDEXED
TAX ID #03-341135

ON-SITE SEWAGE DISPOSAL SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH

Fogles Septic Clean, Inc IS PERMITTED TO INSTALL ALTER
ADDRESS: 580 Obrecht Road, Sykesville PHONE NUMBER: 410-795-5670
SUBDIVISION: Archer's Glen LOT NUMBER: 10
ADDRESS: 1726 Archers Glen PROPERTY OWNER: Patapsco Homes, Inc.
SEPTIC TANK CAPACITY (GALLONS): 1250 OUTLET BAFFLE FILTER REQUIRED
PUMP CHAMBER CAPACITY (GALLONS): _____ COMPARTMENTED TANK REQUIRED
NUMBER OF BEDROOMS: 4
SQUARE FEET PER BEDROOM: 180
LINEAR FEET OF TRENCH REQUIRED: 120 HOUSE SERVED BY PUBLIC WATER

TRENCHES:	Trench to be 3.0 feet wide. Inlet 4.0 feet below original grade. Bottom maximum depth 8.0 feet below original grade. Effective area begins at 5.0 feet below original grade. 4.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box in the highest elevation of the approved SDA to fully utilize the SDA.
NOTES:	No basement gravity service.

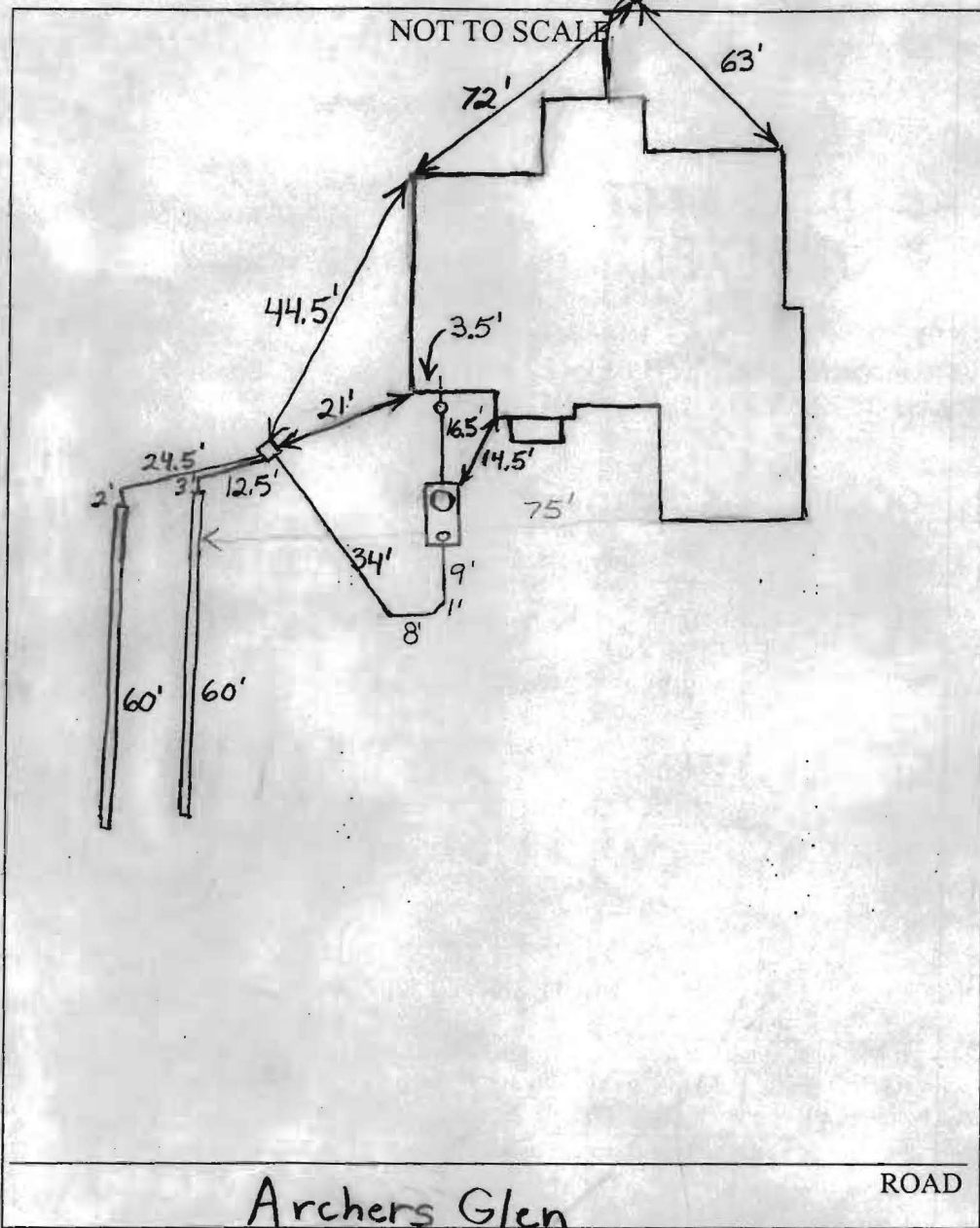
PLANS APPROVED: Pete Yencsik Reviewed by: _____ DATE: 1/7/05

NOTES: PERMIT VOID AFTER 2 YEARS
CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
WATERTIGHT SEPTIC TANKS REQUIRED
ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED
MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED
CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTED RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT BUILDING PERMIT SIGNED AND RETURNED ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

*7-11-05 800154686 - JG PROPANE TANK
5/4/06 800159555 - D REK*

A519017-A



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES 2		
TOTAL LENGTH 120'		
ABSORPTION AREA 360 + Sidewall		
DISTRIBUTION BOX LEVEL Levelers		
DISTRIBUTION BOX BAFFLE Yes		
DISTRIBUTION BOX PORT No		

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	1'-2'
BAFFLES	Yes
BAFFLE FILTER	No
MANHOLE LOC	Front
6" PORT LOC	Rear
WATERTIGHT TEST	No
SEPTIC TANK 2 LEVEL	
CAPACITY _____ GAL	
SEAM LOC _____	
TANK LID DEPTH _____	
BAFFLES _____	
BAFFLE FILTER _____	
MANHOLE LOC _____	
6" PORT LOC _____	
WATERTIGHT TEST _____	

PRE-CONSTRUCTION 4/4/05 To install 2 trenches on contour near top of easement that run towards Archers Glen. Area staked (BB)

INSTALLATION 4/4/05 Need house connection. Need to adjust speed levelers. Tank set. (BB) 4/5/05 O.K. to cover everything. Need house connection. (BB) 4/21/05 No house connection. (BB) 7/28/05 House connection made. (BB)

BUILDING PERMIT SIGNED AND RETURNED

FINAL INSPECTOR B. Baker DATE OF APPROVAL 7/28/05

3/24/05
Wall check OK
KTB

DRS & ASSOCIATES
LAND DESIGN CONSULTANTS

LEGEND

- ⊙ CLEANOUT
- ⊠ WATER VALVE
- ▣ PH. BOX
- ▣ ELEC. BOX
- ▣ CATV
- PROP. COR. NOT SET
- PROP. COR. SET/FOUND

ARCHER'S GLEN
PLAT NO. 16455

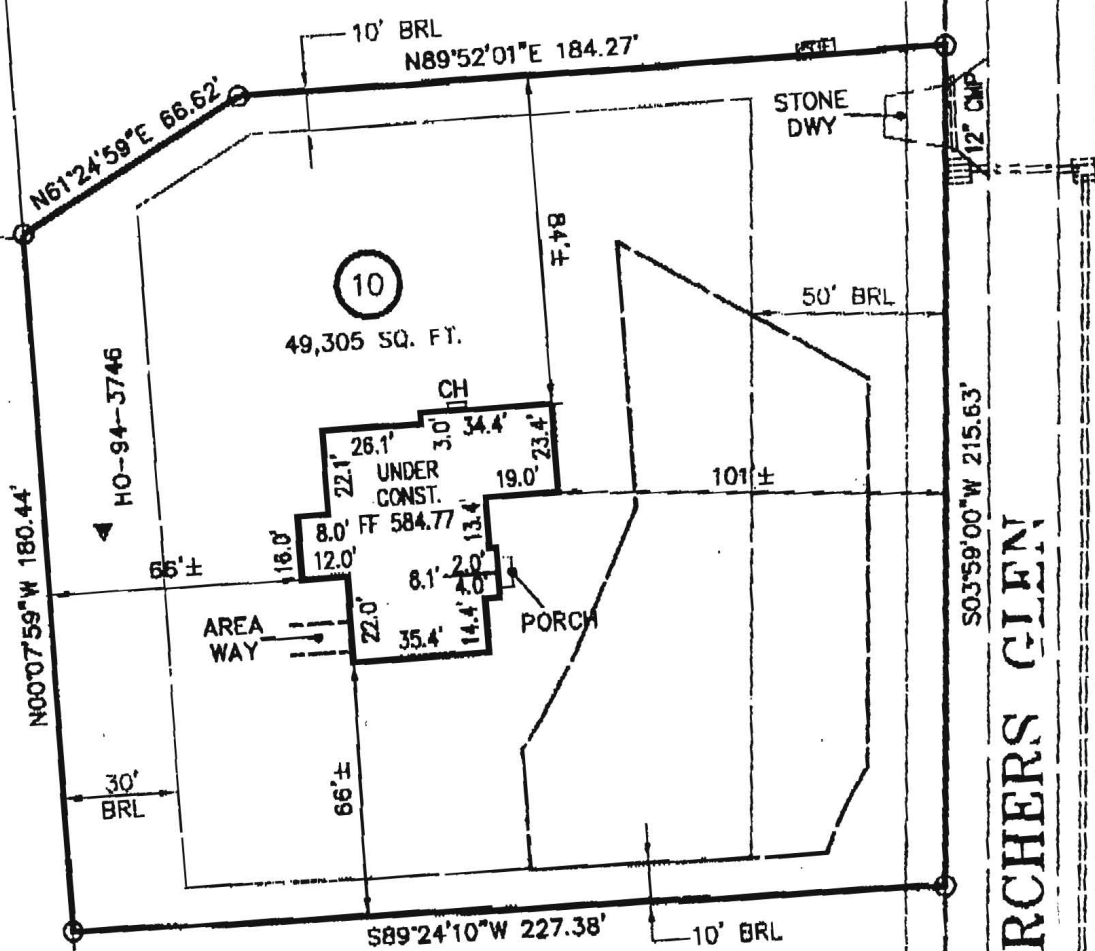
MARYLAND STATE

MERIDIAN NAD 83

HEATHERWOOD
SECTION 1, AREA 1
PLAT NO. 4401

ARCHERS GLEN

ARCHER'S GLEN
PLAT NO. 16456



SEDIMENT CONTROL NOTES

1. 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).
2. 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.
3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes steeper 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 the perimeter in accordance with Vol. 1, Chapter 12, of the 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 (Sec. 54), Temporary Seeding (Sec. 50), and Mulching (Sec. 52). Temporary 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:
 - Total Area of Site: 1,131.9 Acres
 - Area Disturbed: 0.7291 Acres
 - Area to be roofed or paved: 0.1481 Acres
 - Area to be vegetatively stabilized: 0.5810 Acres
 - Total Cut: 444 Cu. Yards
 - Total Fill: 444 Cu. Yards
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, if deemed necessary by the Howard County Sediment Control Inspector.
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 any 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 agency is made.
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 shorter.

TEMPORARY SEEDING NOTES

- Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.
- Seeded Preparation:**
Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.
- Soil Amendments:**
Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.).
- Seeding:**
For the periods March 1 through April 30, and August 15 through November 15, seed with 1 1/2 bushels per acre of annual rye (3.2 lbs./1000 sq. ft.). For the period of May 1 thru August 14, seed with 3 lbs./acre of weeping lovegrass (0.7 lbs./1000 sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.
- Mulching:**
Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 sq. ft.) for anchoring. Refer to the 1988 Maryland Standards and Specification for Soil Erosion and Sediment Control for rate and methods not covered.

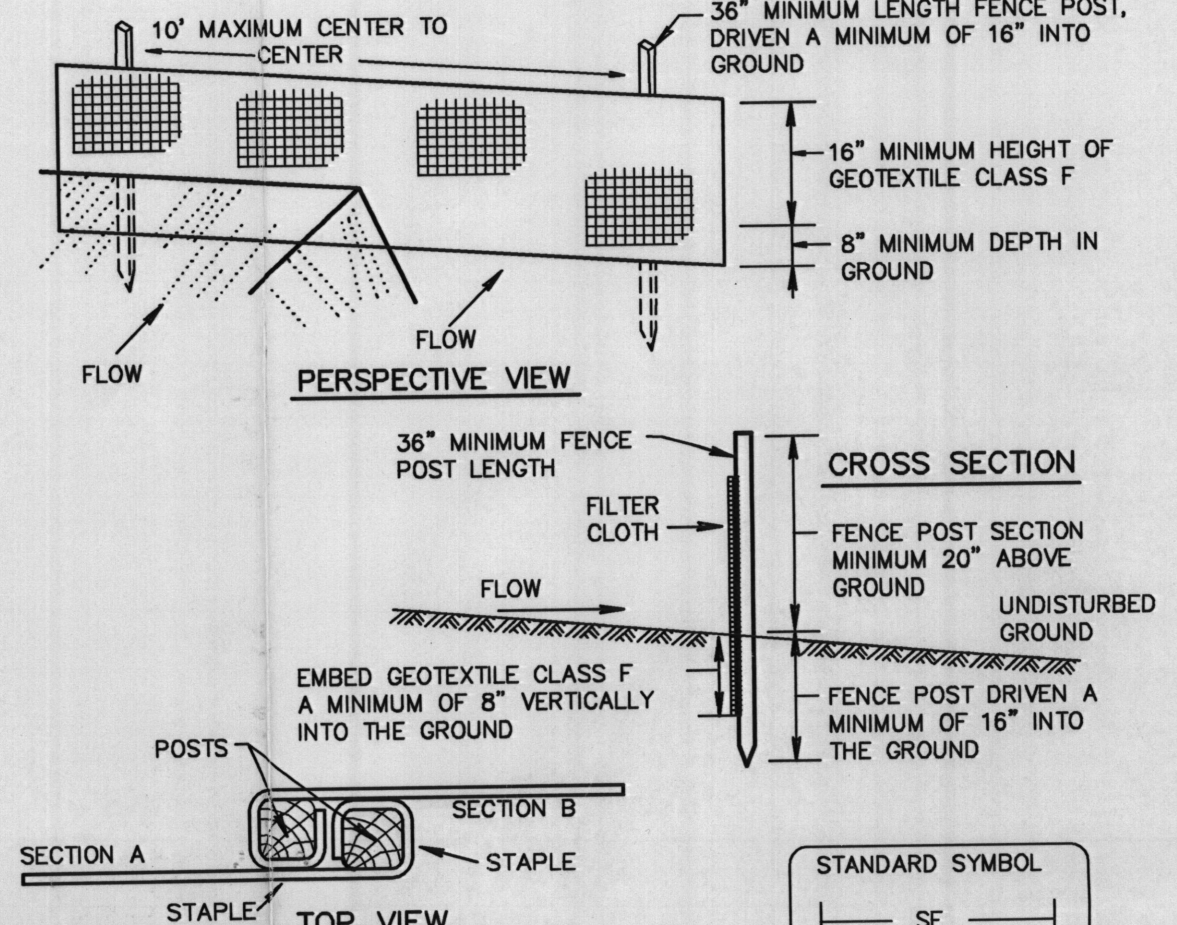
PERMANENT SEEDING NOTES

- All disturbed areas shall be stabilized as follows:
- Seeded Preparation:**
Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.
- Soil Amendments:**
Apply two tons per acre dolomite limestone (92 lbs./1000 sq. ft.) and 600 lbs. per acre 0-20-20 fertilizer (14 lbs./1000 sq. ft.). Before seeding harrow or disc into upper 3 inches of soil. At time of seeding, apply 400 lbs. per acre 38-0-0 ureaform fertilizer (9 lbs./1000 sq. ft.) and 500 lbs. per acre (11.5 lbs./1000 sq. ft.) of 10-20-20 fertilizer.
- Seeding:**
For the periods March 1 through April 30, and August 1 through October 15, seed with 100 lbs. per acre (2.3 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period of May 1 thru July 31, seed with 60 lbs./acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue and 2 lbs. per acre (0.05 lbs./1000 sq. ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by:
Option 1) Applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring.
Option 2) Use sod.
Option 3) Seed with 100 lbs./acre Kentucky 31 Tall Fescue and mulch with two tons/acre well anchored straw. All slopes should be hydroseeded.
- Mulching:**
Apply 1 to 2 tons per acre (45 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using 200 gallons per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 sq. ft.) for anchoring.

SEQUENCE OF CONSTRUCTION

1. Obtain grading permit.
2. Install Sediment and Erosion Control Devices as shown on plan.
3. Clear and grub to limits of disturbance and mass grade to sub-base
4. Install temporary seeding.
5. Construct Buildings.
6. Fine grade site and install permanent seeding and landscaping.
7. Remove Sediment Control Devices as upland areas are stabilized and permission is granted by Erosion and Sediment Control Inspector.

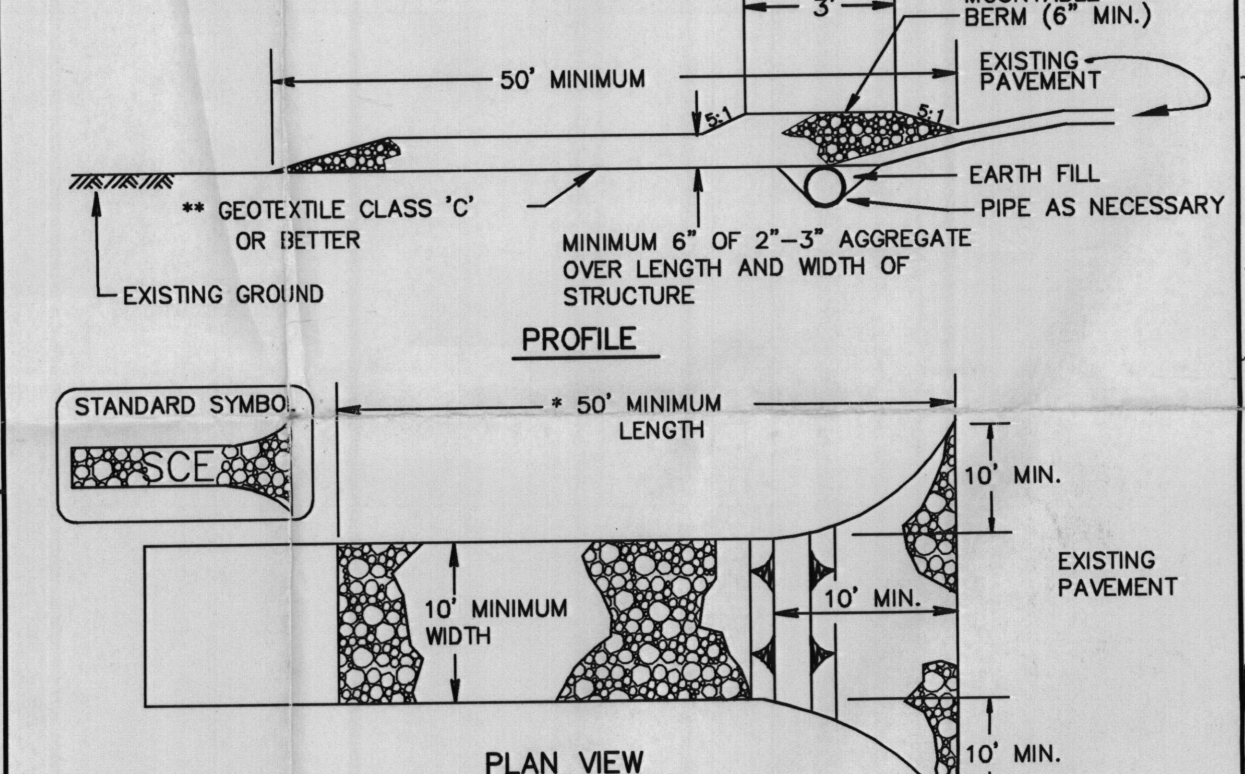
SILT FENCE



JOINING TWO ADJACENT SILT FENCE SECTIONS

- Construction Specifications**
1. 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 pound per linear foot.
 2. 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/ft²/minute (max.) Test: MSMT 322
 Filtering Efficiency: 75% (min.) Test: MSMT 322
 3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

STABILIZED CONSTRUCTION ENTRANCE



TOPSOIL SPECIFICATIONS

Soil to be used as topsoil must meet the following:
 Topsoil shall 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. Regardless topsoil shall not be a mixture of contrasting texture subsols and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash or other materials larger than 1 1/2\"/>

GENERAL NOTES

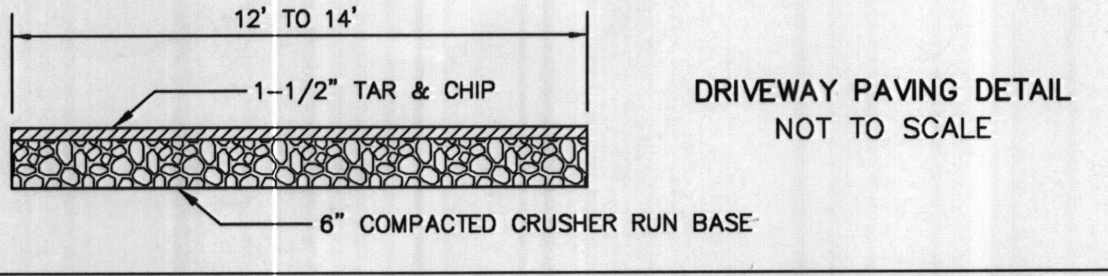
1. Subject Property Zoned: RC-DEO.
2. Total area of property: 49,305 sq. ft.
3. Septic easement subject to Howard County Health Department review.
4. Length of trench to be determined at time of septic permit issuance.
5. Contractor/Builder to verify elevation in the field before beginning any construction.
6. Field run topographic survey run by Fisher, Collins & Carter, Inc in May of 2004.
7. No wetlands currently exist on the property.
8. For driveway entrance detail refer to Howard County Design Manual Volume IV Standard Detail 06.06.
9. This area designates a private sewerage easement of least 10,000 square feet as required by the Maryland State Department of the Environment for individual sewerage disposal. Improvements of any nature in this area are restricted until public sewerage is available. These easements shall become null and void upon connection to a public sewerage system. The County Health Officer shall have the authority to grant adjustments to the private sewerage easement. Recordation of a modified sewerage easement shall not be necessary.
10. The lot shown hereon complies with the minimum ownership width and lot area as required by the Maryland State Department of the Environment.
11. Existing wells and/or sewerage easements within 100 feet of the property have been shown from the best available information.
12. All house sites shown comply with minimum building restriction regulations.
13. All wells shall be drilled prior to final plot recordation. It is the developer's responsibility to schedule the well drilling prior to final plot submission. It will not be considered "government delay" if the well drilling holds-up the Health Department signature of the record plot.
14. *The existing well shown on this plan identified with the attached well tag number HO-94-3746 has been field located by DRS & Associates professional land surveyor and is accurately shown.

SEPTIC TEST LEGEND

- PROPOSED PERC
- ⊙ APPROVED DEEP TRENCH PERC
- ⊙ APPROVED MODIFIED TRENCH PERC
- ⊙ APPROVED SAND MOUND PERC
- ⊙ APPROVED TILE FIELD PERC
- FAILED PERC
- ⊖ NO TEST
- PROPOSED OBSERVATION HOLE
- ⊙ APPROVED DEEP TRENCH OBSERVATION HOLE
- ⊙ APPROVED MODIFIED TRENCH OBSERVATION HOLE
- ⊙ APPROVED SAND MOUND OBSERVATION HOLE
- ⊙ APPROVED TILE FIELD OBSERVATION HOLE
- FAILED OBSERVATION HOLE

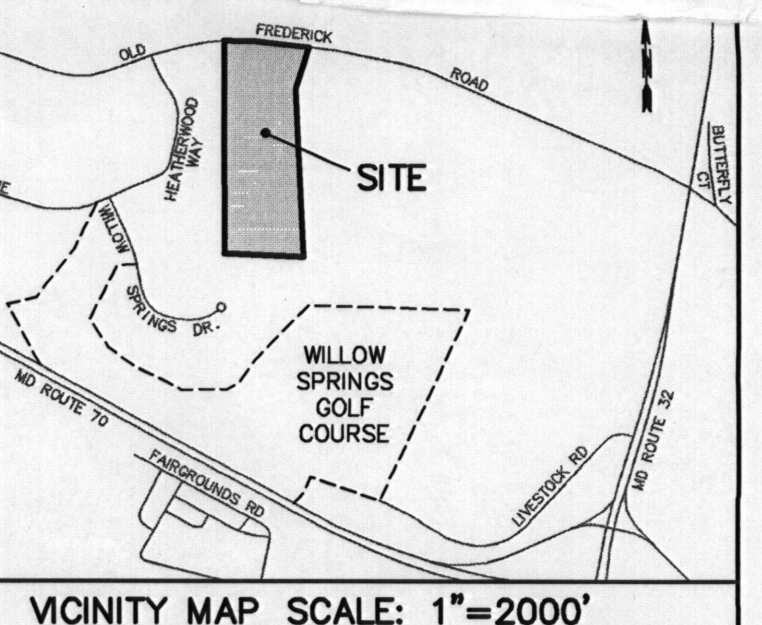
SEPTIC TEST RESULTS

No.	TYPE TEST	COMMENTS	DATE
1214	⊙	4m@5', OK TO 12.5'	2001-05-15
1215	⊙	13m@5', OK TO 14'	2001-05-16
1216	⊙	5m@5', OK TO 14.5'	2001-05-16



SEPTIC SYSTEM DATA

Structure	Ex. Ground	Finished Ground	Inv. In	Inv. Out	Bottom of Trench	Length	Remarks
Septic Tank	580.50	581.00	577.29	577.04	N/A	N/A	INV @ HOUSE 577.57
Distribution Box	580.20	580.20	576.70	577.60	N/A	N/A	
Trench #1							
Trench #2							

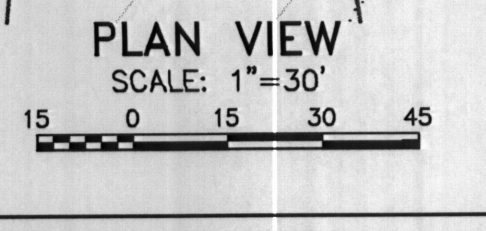
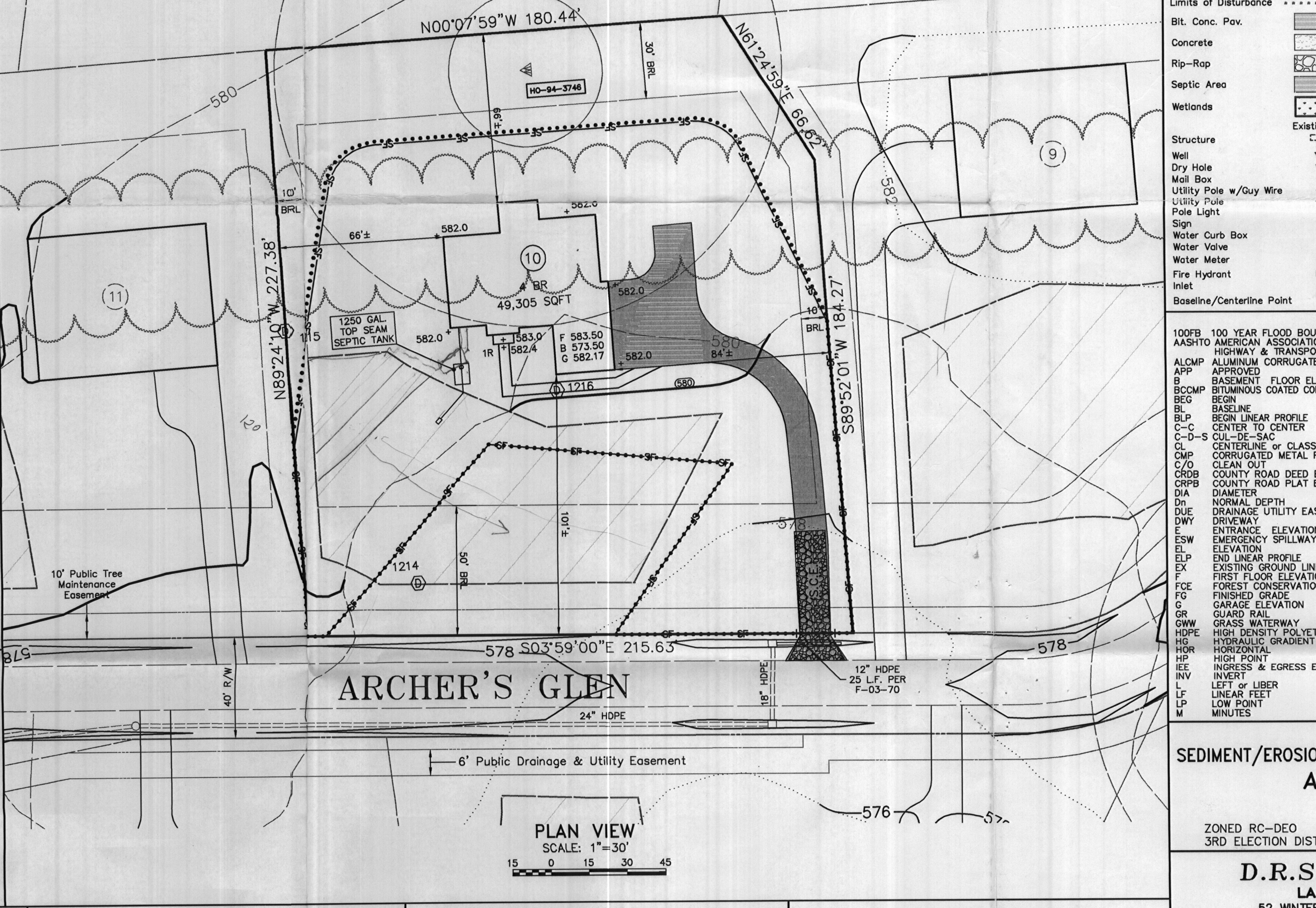


LEGEND

Existing	Proposed
Stream	Stream
Forest	Forest
500 Yr. Flood Boundary	500 Yr. Flood Boundary
100 Yr. Floodplain	100 Yr. Floodplain
Floody	Floody
FRM 100 Yr. Flood Boundary	FRM 100 Yr. Flood Boundary
Soil Type	Soil Type
Telephone	Telephone
Electric	Electric
Overhead Lines	Overhead Lines
Underground Cable	Underground Cable
Gas Line	Gas Line
Cable Line	Cable Line
Fenceline	Fenceline
Zoning Line	Zoning Line
Municipal Boundary	Municipal Boundary
Septic Area	Septic Area
Center Line Rd	Center Line Rd
Edge of Rd	Edge of Rd
Edge of Shoulder	Edge of Shoulder
25' Wetlands Buffer	25' Wetlands Buffer
Stream Buffer	Stream Buffer
Guardrail	Guardrail
Int. Contours	Int. Contours
Ind. Contours	Ind. Contours
Water Line	Water Line
Storm Drain	Storm Drain
Sewer	Sewer
Lot Line	Lot Line
Plot Outline	Plot Outline
Easement	Easement
Forest Cons. Eamt.	Forest Cons. Eamt.
Min. Bldg. Line	Min. Bldg. Line
Right-Of-Way Line	Right-Of-Way Line
Swale/Ditch	Swale/Ditch
Limits of Disturbance	Limits of Disturbance

ABBREVIATIONS

100FB 100 YEAR FLOOD BOUNDARY	MBL MINIMUM BUILDING LINE
AASHTO AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIAL	NAVD NORTH AMERICA VERTICAL DATUM
ALCOMP ALUMINUM CORRUGATED METAL PIPE	NOSE DOWN CURB
APP NOT IN CONTRACT	OS OFFSET
BRP BASEMENT FLOOR ELEVATION or BOOK	PB PLAT BOOK
BCC BITUMINOUS COATED CORRUGATED METAL PIPE	PC POINT OF CURVE
BEIN BEIN	PDFD PERPETUAL EASEMENT FOR DRAINAGE FACILITY
BLD BASELINE	PGL PROFILE GRADE LINE
BLN BEIN LINEAR PROFILE	PL PROPERTY LINE
CL CENTERLINE or CLASS	PT POINT OF TANGENT
C-C CUL-DE-SAC	PR PROFILE
CMP CORRUGATED METAL PIPE	PVC POINT OF VERTICAL CURVE
C/O CLEAN OUT	PVI POINT OF VERTICAL INTERSECTION
CRPB COUNTY ROAD DEED BOOK	PWA PUBLIC WORKS AGREEMENT
CRP COUNTY ROAD PLAT BOOK	PVT POINT OF VERTICAL TANGENT
DIA DIAMETER	QFC QUANTITY OF CEMENT
DIA DIAMETER	QFC QUANTITY OF CEMENT
DUE DRAINAGE UTILITY EASEMENT	R RIGHT OF RADIIUS
DWY DRIVEWAY	RCP REINFORCED CONCRETE PIPE
E ELEVATION	SC SEWER CONNECTION
ESW EMERGENCY SPILLWAY ELEVATION	SD STORM DRAIN
ELP END LINEAR PROFILE	SH SHEET
EX EXISTING GROUND LINE	SHA MARYLAND STATE HIGHWAY ADMINISTRATION
EX EXISTING GROUND LINE	SS SANITARY SEWER
FCE FOREST CONSERVATION EASEMENT	TCD TOP CONSTRUCTED DAM
FG FINISHED GRADE	TGB TOP OF BERM
GE GARAGE ELEVATION	TGD TOP OF GRATE
GR GUARD RAIL	TGR TOP OF GRATE
GWW GRASS WATERWAY	TOT TOP OF TRENCH
HDPE HIGH DENSITY POLYETHYLENE	TOT TOP OF TRENCH
HG HORIZONTAL GRADIENT	TOT TOP OF TRENCH
HR HORIZONTAL	TYP TYPICAL
IEE INVERT	U-I-C USE-IN-COMMON VELOCITY FEET PER SECOND
IEE INVERT	VERT VERTICAL
L LEFT OF LIBER	WC WATER CONNECTION
L LINEAR FEET	WATERLINE
LP LOW POINT	WO WALKOUT
M MINUTES	



DEVELOPER'S CERTIFICATION
 I/we certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a certificate of attendance at a Department of the Environment approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Reviewed for Howard County Soil Conservation District and meets technical requirements.

Howard Soil Conservation District Date

U.S.D.A. Natural Resources Conservation Service Date

REVISIONS

REV. NO.	DATE	BY	DESCRIPTION	DATE
1	2005-01-05	DRS/jfe	PER HOWARD COUNTY HEALTH DEPT. 2004-12-27	2004-11-22

DATE: 2004-11-22
 SCALE: 1"=30'
 SHEET NO.: 1 OF 1
 DWG.: ST01-01

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