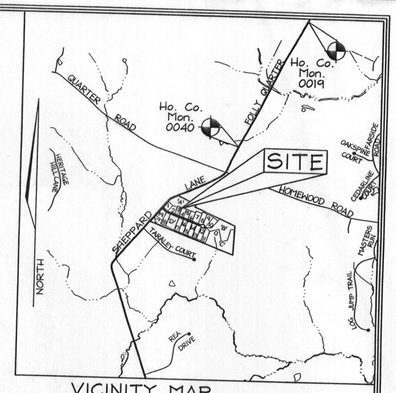
SOILS LEGEND

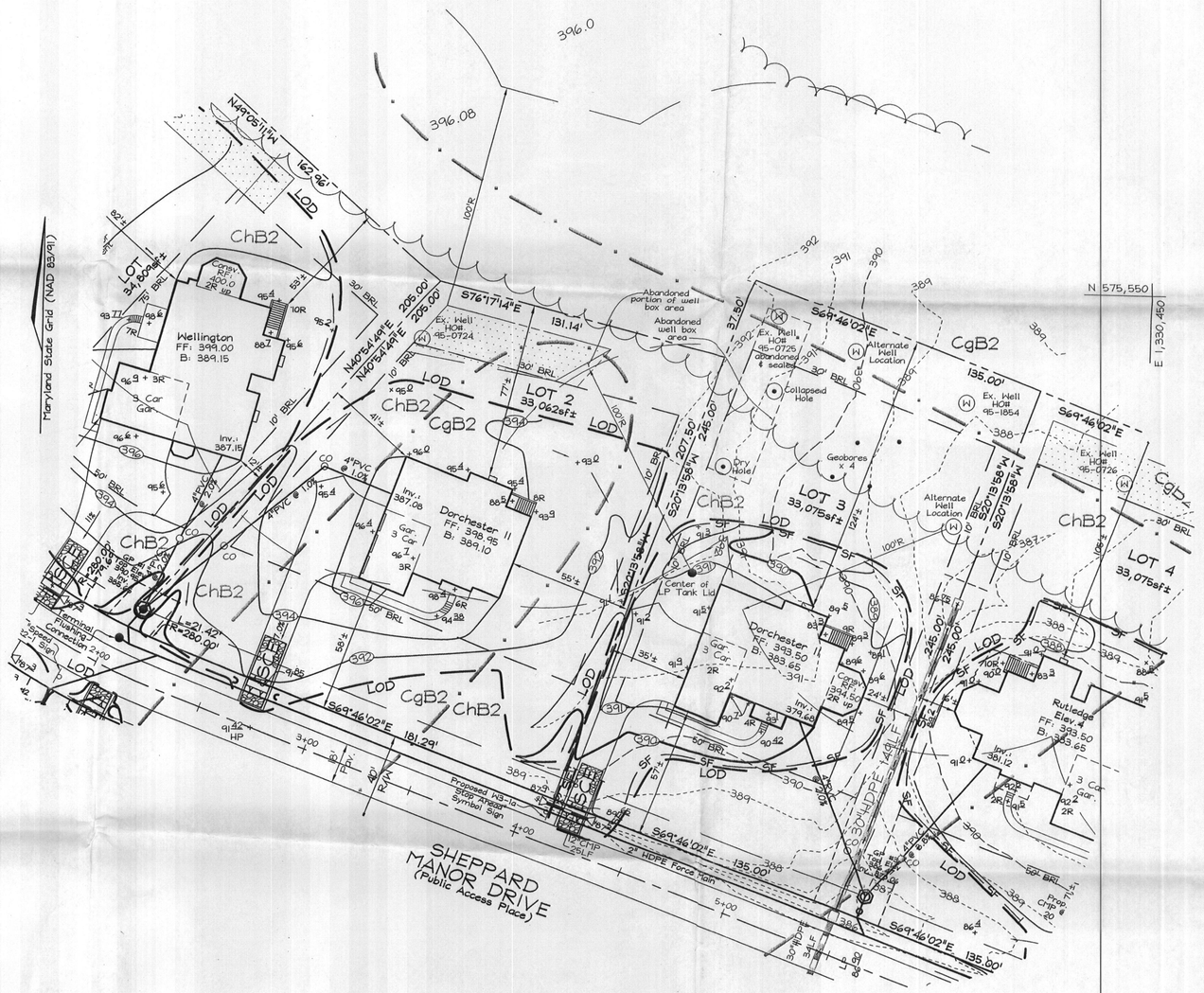
SYMBOL	NAME / DESCRIPTION	SOIL GROUP
Ba	Baile silt loam	D
CgB2	Chester gravelly silt loam, 3 to 8 percent slopes, moderately eroded	B
CgC2	Chester gravelly silt loam, 8 to 15 percent slopes, moderately eroded	B
ChA	Chester silt loam, 0 to 3 percent slopes	B
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
GlD2	Glenelg loam, 15 to 25 percent slopes, moderately eroded	B
MgB2	Manor gravelly loam, 3 to 8 percent slopes, moderately eroded	B
MgC3	Manor gravelly loam, 8 to 15 percent slopes, severely eroded	B
MlD2	Manor loam, 15 to 25 percent slopes, moderately eroded	B
MlE	Manor loam, 25 to 45 percent slopes	B

LEGEND

- Existing Contour — 382
- Proposed Contour — 382
- Spot Elevation — +82.53
- Direction of Flow
- Tree Protection Fence
- Existing Trees to Remain
- Super Silt Fence — SSF — SSF
- Limit of Disturbance — LOD
- Soil Boundary



VICINITY MAP
SCALE: 1"=2000'
ADC MAP 4934 A1



PLAN VIEW
SCALE:1=30'

BENCHMARKS

Sta. 0019	N 176,927.0394	E 406,505.1110	El.: 117.6061 (meters)
	N 580,468.128	E 1,333,675.518	El.: 385.846 (feet)
Sta. 0040	N 175,952.4260	E 405,996.1970	El.: 111.3465 (meters)
	N 577,270.584	E 1,332,022.575	El.: 365.309 (feet)

GENERAL NOTES

1. This property is zoned "RC-DEO" per the 02/02/04 Comprehensive Zoning Plan and the Comp Lite Zoning Regulations Amendments effective 07/26/06.
2. Total area of property:
   Lot 2 = 33,062sf± or 0.759 Ac±
   Lot 3 = 33,075sf± or 0.759 Ac±
3. Private water and shared septic will serve this lot.
4. On-site topography based on a Field Run Topographic Survey prepared by FSH Associates dated 1/12/04. Off-site and non-critical topography based on Howard County 1998 Aerial Topographic Surveys with five foot contours.
5. The existing wells shown on this plan (identified with the attached well tag numbers: HO-95-0725, HO-95-1854 & HO-95-0724) have been field located by FSH Associates, Inc at August 17, 2007 and January 18, 2010 (respectively) and are accurately shown.
6. A stockpile will not be permitted on site.
7. Topography shown is at two-foot contour intervals (one-foot intervals are required for mound systems and systems with pipe depth less than two feet) and has been field verified or field run.
8. Existing wells, septic systems, and sewage disposal areas within 100' of the property and those within 200' downgradient of existing or proposed septic systems or sewage disposal areas have been shown.
9. The purpose of this Amended Percolation Certification Plan is to abandon the well area on Lot 3, adjust the well area on lot 2 and to abandon existing well #HO-95-0725 on Lot 3.
10. The lot shown heron was recorded on the plat #19208-19210. Refer to plat for lot dimensions, lot areas, all easements, any restrictions, and provisions.
11. Locations of Dry or Collapsed Drill Holes, Geobores, and the LP tank are "best fit" of data recorded by Health Department Environmental Sanitarians.

"I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PREFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF. I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. #22418, EXPIRATION DATE: 07/29/2011.

Zacharia Y Fisch — 1/25/2010
ZACHARIA YOSEF FISCH, P.E. #22418 — DATE
FSH ASSOCIATES

OWNER/DEVELOPER
WILLIAMSBURG GROUP LLC
5485 Harpers Farm Road #200
Columbia, Maryland 21044-3834
Telephone: (410) 997-8800
Fax: (410) 997-4358

FOR PRIVATE WATER AND SHARED SEWERAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

for Peter Beilenson — 1/26/2010
HEALTH OFFICER — DATE
COUNTY HEALTH DEPARTMENT

AMENDED PERCOLATION CERTIFICATION PLAN

Rev.02

SHEPPARD MANOR

LOTS 2 & 3

TAX MAP 39 GRIDS 01
5TH ELECTION DISTRICT

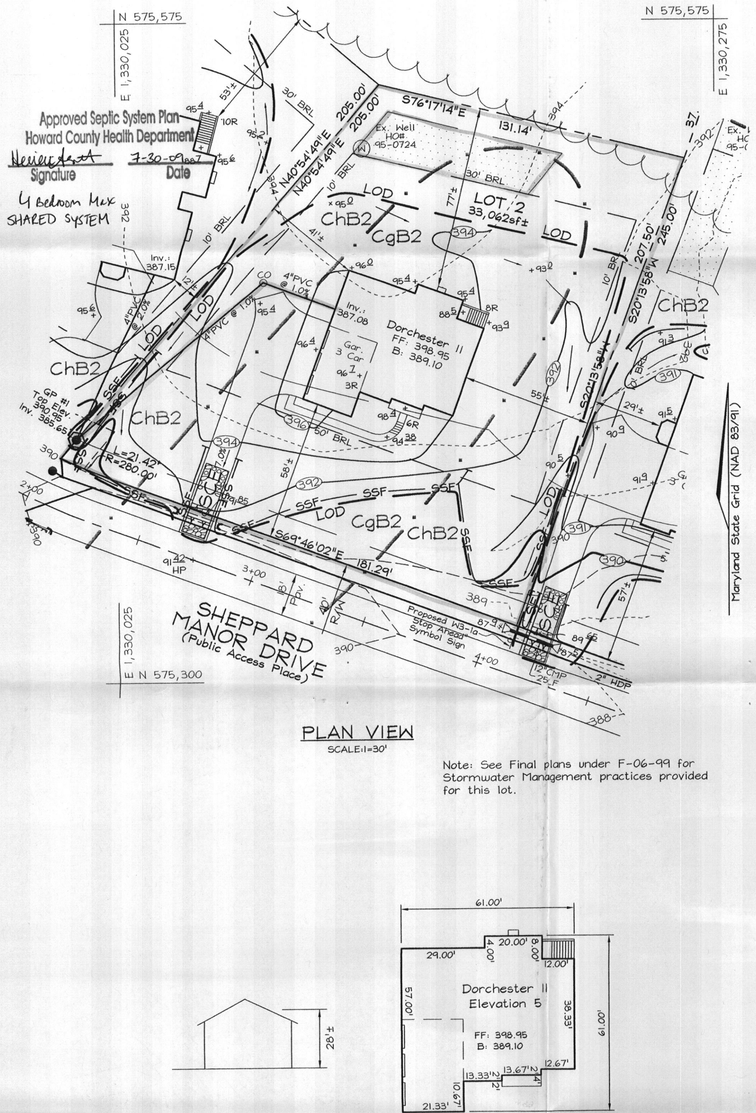
PARCEL 268
HOWARD COUNTY, MARYLAND

STATE OF MARYLAND — ZACHARIA YOSEF FISCH — 22418 — PROFESSIONAL ENGINEER

FSH Associates
Engineers Planners Surveyors
6339 Howard Lane, Elkridge, MD 21075
Tel:410-567-5200 Fax: 410-796-1562
E-mail: info@fsheri.com

DESIGN BY:	AY
DRAWN BY:	CRH2
CHECKED BY:	ZYF
SCALE:	As shown
DATE:	Jan. 22, 2010
W.O. No.:	3160
SHEET No.:	1 OF 1

mend_Perc_Lot3.dwg, 1/25/2010 5:05:32 PM, cdawson, 1:1



PLAN VIEW

SCALE:1=30'

Note: See Final plans under F-06-99 for Stormwater Management practices provided for this lot.

HOUSE TYPE

NOT TO SCALE

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 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 (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.
MULCHING: Immediately following seeding, apply a uniform 1- 2 in. Deep layer of un-rated 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.

Permanent Seeding Summary

Seed Mixture (Hardiness Zone 7a and 6b) From Table 25					Fertilizer Rate (10-20-20)			Lime Rate
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P205	K20	
10	Tall Fescue (80%) Hard Fescue (20%)	120 30	3/1-5/15 8/15-11/15	0.5 in.	90lb/ac (2 lb/ 1000sf.)	75lb/ac (4lb/ 1000sf.)	175lb/ac (4lb/ 1000sf.)	2tons/ac (100lb/ 1000sf.)

TEMPORARY SEEDING NOTES

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

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-rated 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.
REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROLFOR RATE AND METHODS NOT COVERED.

Temporary Seeding Summary

Seed Mixture (Hardiness Zone 6a and 7a) From Table 26					Fertilizer Rate (10-10-10)	Lime Rate
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths		
2	Barley or Rye plus Foxtail Millet	150 lbs. (3.5lbs/ 1000sqf.)	2/1-11/30 (7a) 3/15-10/31 (6a)	1/4 in- 1/2 in	600 lbs/ac. (15lb/1000sf.)	2 tons/ac (100lb/1000sf.)

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. 6). 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 :

Total Area	0.759 Acres
Area Disturbed	0.501 Acres
Area to be roofed or paved	0.148 Acres
Area to be vegetatively stabilized	0.353 Acres
Total Cut	± 1021 CY
Total Fill	± 628 CY
Offsite waste/borrow area location	

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 regested 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 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.

* 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.

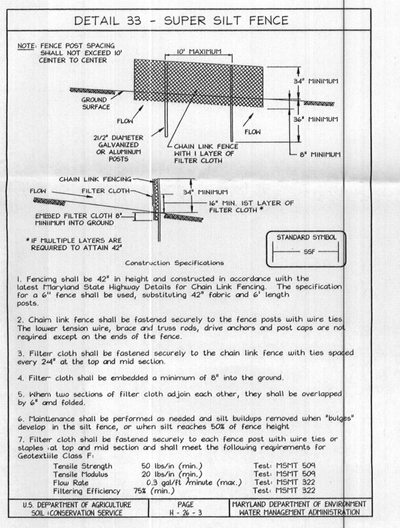
SEQUENCE OF CONSTRUCTION

1. Obtain grading permit.
2. Notify Howard County Department of Inspections, License and Permits at (410) 313-1880 at least 24 hours before starting any work.
3. Install Stabilized Construction Entrance.
4. After receiving permission from the sediment control inspector, rough grade site and begin building construction.
5. Construct driveway and finish building construction.
6. Fine grade site.
7. Upon stabilization of all disturbed areas and with the permission of the Sediment Control Inspector, remove all sediment control measures and stabilize any remaining disturbed area.

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	SOIL GROUP
Ba	Baile silt loam	D
CgB2	Chester gravelly silt loam, 3 to 8 percent slopes, moderately eroded	B
CgC2	Chester gravelly silt loam, 8 to 15 percent slopes, moderately eroded	B
ChA	Chester silt loam, 0 to 3 percent slopes	B
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
GlD2	Glenelg loam, 15 to 25 percent slopes, moderately eroded	B
MgB2	Manor gravely loam, 3 to 8 percent slopes, moderately eroded	B
MgC3	Manor gravely loam, 8 to 15 percent slopes, severely eroded	B
MlD2	Manor loam, 15 to 25 percent slopes, moderately eroded	B
MlE	Manor loam, 25 to 45 percent slopes	B

DETAIL 33 - SUPER SILT FENCE



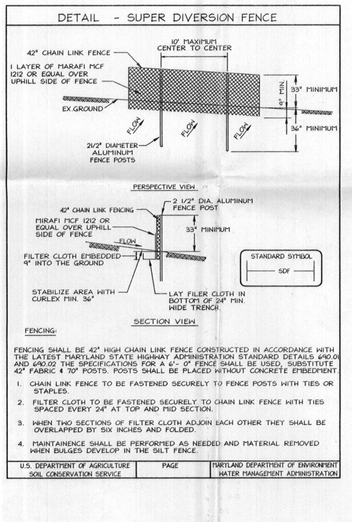
Construction Specifications

1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace 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 link fence with ties spaced every 24" at the top and mid section.
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.
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:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE H - 24 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL - SUPER DIVERSION FENCE



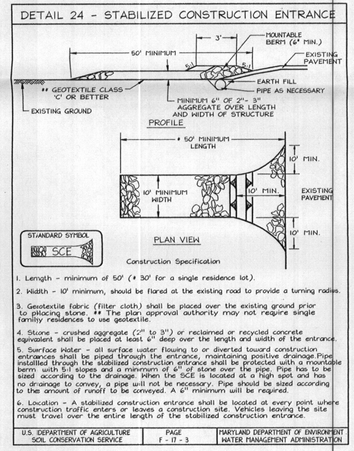
FENCING:

FENCING SHALL BE 42" HIGH CHAIN LINK FENCE CONSTRUCTED IN ACCORDANCE WITH THE LATEST MARYLAND STATE HIGHWAY ADMINISTRATION STANDARD DETAILS 640.01 AND 640.09 AND THE SPECIFICATIONS FOR A 6'- 0" FENCE SHALL BE USED, SUBSTITUTE 42" FABRIC 4 70" POSTS. POSTS SHALL BE PLACED WITHOUT CONCRETE EMBEDMENT

1. CHAIN LINK FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTAINENCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



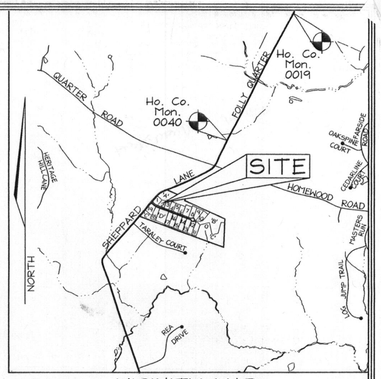
Construction Specification

1. Length - minimum of 50' (* 30' for a single residence lot.)
2. Width - 10' minimum, should be flared at the existing 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.
5. 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.
6. 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.

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

LEGEND

Existing Contour ----------382
Proposed Contour 382
Spot Elevation +82.53
Direction of Flow
Tree Protection Fence
Existing Trees to Remain
Super Silt Fence SSF SSF
Limit of Disturbance LOD
Soil Boundary



VICINITY MAP

SCALE: 1"=2000'
ADC MAP 10 E13, 14 E1

BENCHMARKS

Sta. 0019	N 176,927.0394	E 406,505.1110	El.: 117.6061 (meters)
	N 580,468.128	E 1,333,675.518	El.: 385.846 (feet)
Sta. 0040	N 175,952.4260	E 405,995.1970	El.: 111.3465 (meters)
	N 577,270.584	E 1,332,002.575	El.: 365.309 (feet)

GENERAL NOTES

1. This property is zoned "RC-DEO" per the 02/02/04 Comprehensive Zoning Plan and the Comp Lite Zoning Regulations Amendments effective 07/28/06.
2. Total area of property = 33,062±sf or 0.759 Ac±
3. Public water and shared sewer will serve this lot.
4. ▨ This area designates a private sewage easement, of at least 10,000 SF as required by the Maryland State Department of the Environment for individual sewage disposal (COMAR 26.04.03.). 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 sewage easement. Recordation of a modified sewage easement shall not be necessary.
5. On-site topography based on a Field Run Topographic Survey prepared by FSH Associates dated 1/12/04. Off-site and non-critical topography based on Howard County 1998 Aerial Topographic Surveys with five foot contours.
6. The existing well shown on this plan (identified with the attached well tag number: HO-95-0724) has been field located by FSH Associates. Inc at August 17, 2007 and is accurately shown.
7. A stockpile will not be permitted on site.
8. All wells within 100 feet of the property line have been located and shown.
9. This revised Percolation Certification Plan is required to define the resulting well reserve area since it has been relocated to the eastern side of the subject property, and then after approval of the well site, the area has been shifted about 20 feet toward the back property line.
10. The lot shown hereon comply with the minimum ownership, width and lot area as required by the Maryland Department of the Environment.
11. Storm Water Management for CPv and WQv is provided in a Micro Pool Extended Detention facility grass channels and rooftop and non rooftop disconnects. Rev will be provided in grass swales. Approved under F-06-099.

OWNER/DEVELOPER

WILLIAMSBURG GROUP LLC
5485 Harpers Farm Road #200
Columbia, Maryland 21044-3834
Telephone: (410) 997-8800
Fax: (410) 997-4358

PLOT PLAN AND PERCOLATION CERTIFICATION PLAN REVISION
SHEPPARD MANOR
LOT 2

Rev.02

TAX MAP 39 GRIDS 01 — PARCEL 268
5TH ELECTION DISTRICT — HOWARD COUNTY, MARYLAND

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

HOWARD SCD — 6/30/09 DATE

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.

Zachuria Y. Fisch — 6/23/09
SIGNATURE OF ENGINEER — DATE
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.

SIGNATURE OF DEVELOPER — 6-24-09 DATE

APPROVED : FOR PRIVATE WATER AND SHARED SEWERAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT — DATE

PROFESSIONAL CERTIFICATION

I 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: 7/29/2011.

STATE OF MARYLAND — ZACHARIA YOSEF FISCH — 22418 — PROFESSIONAL ENGINEER — 6/24/09

FSH Associates
Engineers Planners Surveyors
6339 Howard Lane, Elkridge, MD 21075
Tel:410-567-5200 Fax: 410-796-1562
E-mail: info@fsheri.com

DESIGN BY: AY
DRAWN BY: AY
CHECKED BY: ZYF
SCALE: As shown
DATE: June 23, 2009
W.O. No.: 3160
SHEET No.: 1 OF 1

GP-09-93