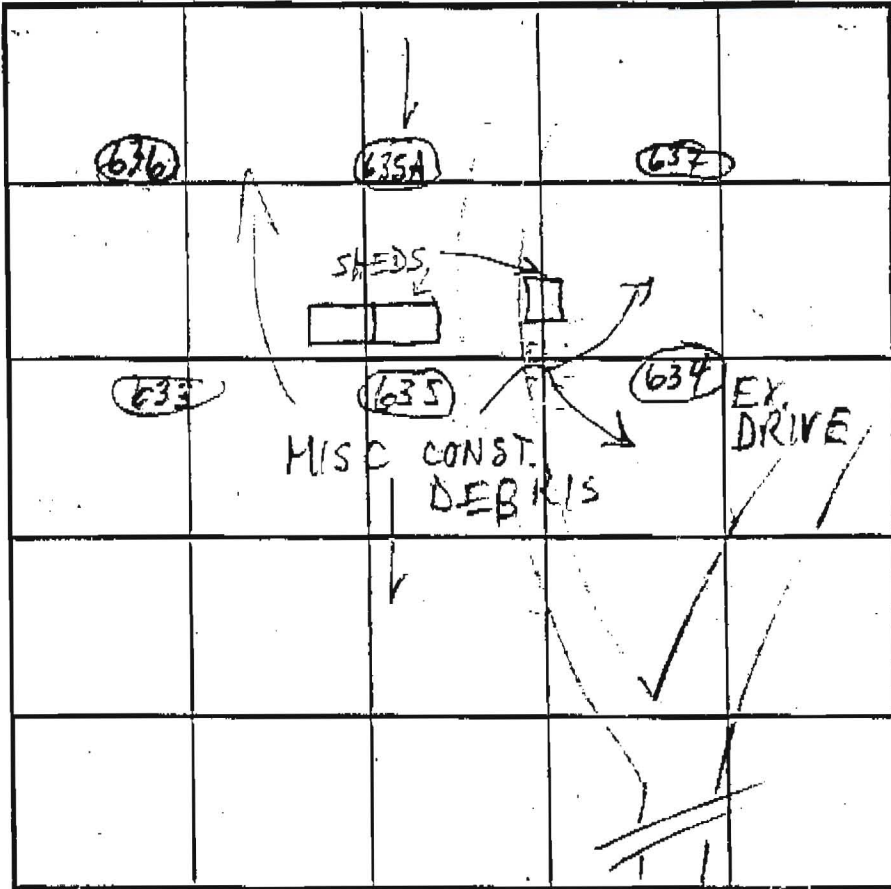


Sheppard Manor
lots 8 & 9

COUNTY #
SOIL PROFILE
633
orange
brn
1/2" m
tan brn
sa mi
1m
10-15%
frags
635
orange
brn
red
hv m
to 1m
brn tan
sa mica
to am
10% frags
pockets
at 25%
635A/637
orange brn
hvysalm 636
brn
pink
tan
sa mi m
19-15%
frags



SOIL PROFILE
634
0' hv orange
brn 1m
3 1/2' tan brn
hv mi
1m
6-9' tan brn
mi sa m
5-10%
frags
14'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE. SHEPPARD LA

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1' DROP		TIME
			START	STOP	START	STOP	
5/30/03	633 ✓	13	OK				
	635 ✓	12' 4"	11:22	11:24	11:29	11:37	8
	637 ✓	12	11:44	11:42	11:47	11:50	2
	634 ✓	14	OK				
	636 ✓	12 1/2	OK				
	635A ✓	12	11:30 11:35:30	11:37:00	11:37:00	11:39:30	FAST 2

REMARKS _____
 TYPE OF SOIL _____
 TESTED BY M. Reikin ALSO PRESENT Hatfield's
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____
 INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT/BEDROOM _____



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, disking 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 (42 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.

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 fibers/ 100 gal. of water. Synthetic liquid binders such as Terra Tax II, Acrylic DLR (Agro-Tack), DCA-70, Petrosol and other approved equis may be used at rates recommended by the manufacturers.

Permanent Seeding Summary

Seed Mixture (Hardness Zone 7a and 8a)	Application Rate (lb/acre)	Seeding Dates	Seeding Depth (in)	Fertilizer Rate (lb/1000 s.f.)	Time Rate
No. 10	120	3/1-5/15	0.5 in.	20lb/2000 (40lb/1000s.f.)	1000s.f./hr

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, disking 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 (42 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 Fertilizer 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 fibers/ 100 gal. of water. Synthetic liquid binders such as Terra Tax II, Acrylic DLR (Agro-Tack), DCA-70, Petrosol and other approved equis may be used at rates recommended by the manufacturers.

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

Temporary Seeding Summary

Seed Mixture (Hardness Zone 6a and 7a)	Application Rate (lb/acre)	Seeding Dates	Seeding Depth (in)	Fertilizer Rate (lb/1000 s.f.)	Time Rate
No. 2	120	2/1-11/30	1/2 in.	600 lb/acre (15lb/1000s.f.)	2 Tons/acre (100lb/1000s.f.)

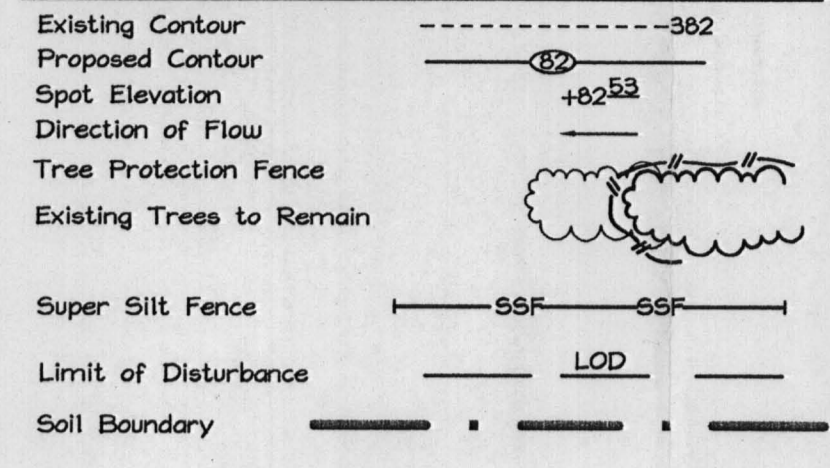
SEDIMENT CONTROL NOTES

- 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 (410-315-1655).
- 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.
- Following initial soil disturbance or redistribution, 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.
- 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.
- 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.
- 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: 1.083 Acres
 - Area Disturbed: 0.875 Acres
 - Area to be roofed or paved: 0.151 Acres
 - Area to be vegetatively stabilized: 0.736 Acres
 - Total Cut: 445 CY
 - Total Fill: 329 CY
- Offsite waste/borrow area location.
- 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.
- 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 agency is made.
- 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.

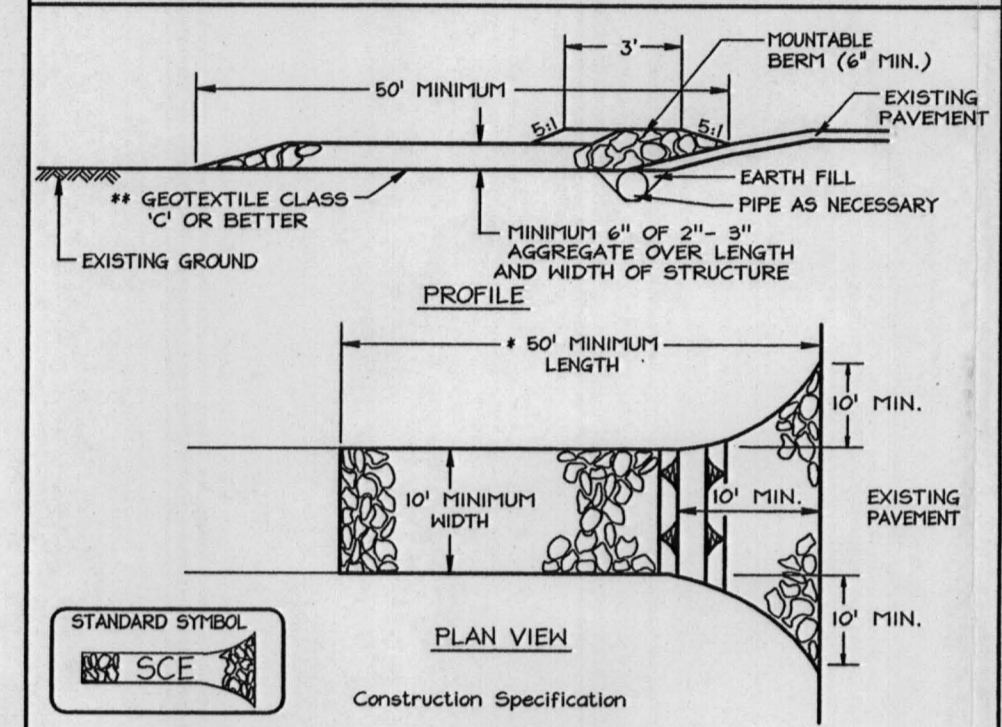
SOILS LEGEND

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
GID2	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
MID2	Manor loam, 15 to 25 percent slopes, moderately eroded	B
MIE	Manor loam, 25 to 45 percent slopes	B

LEGEND

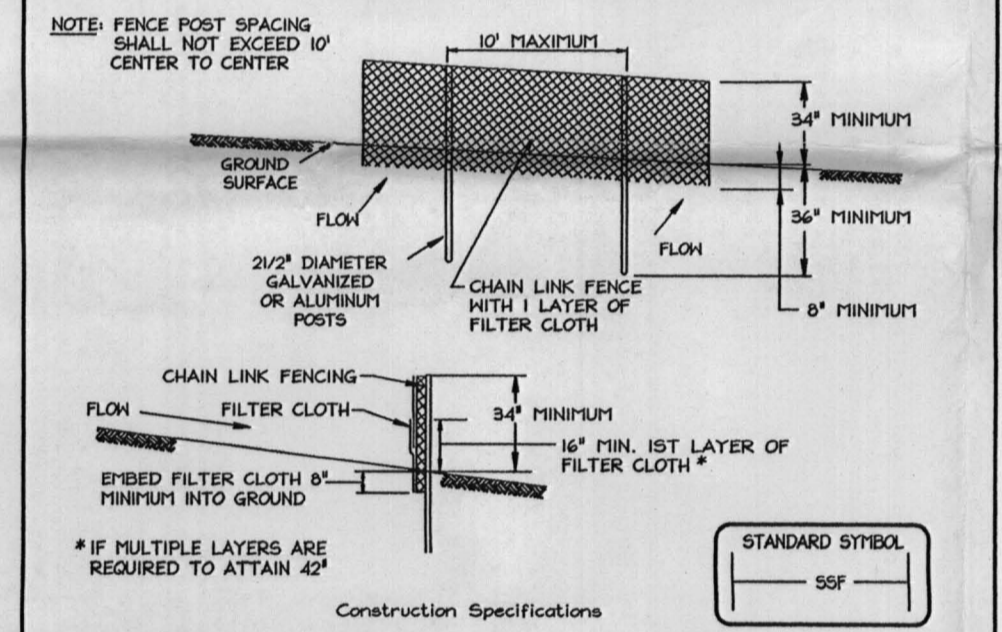


DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

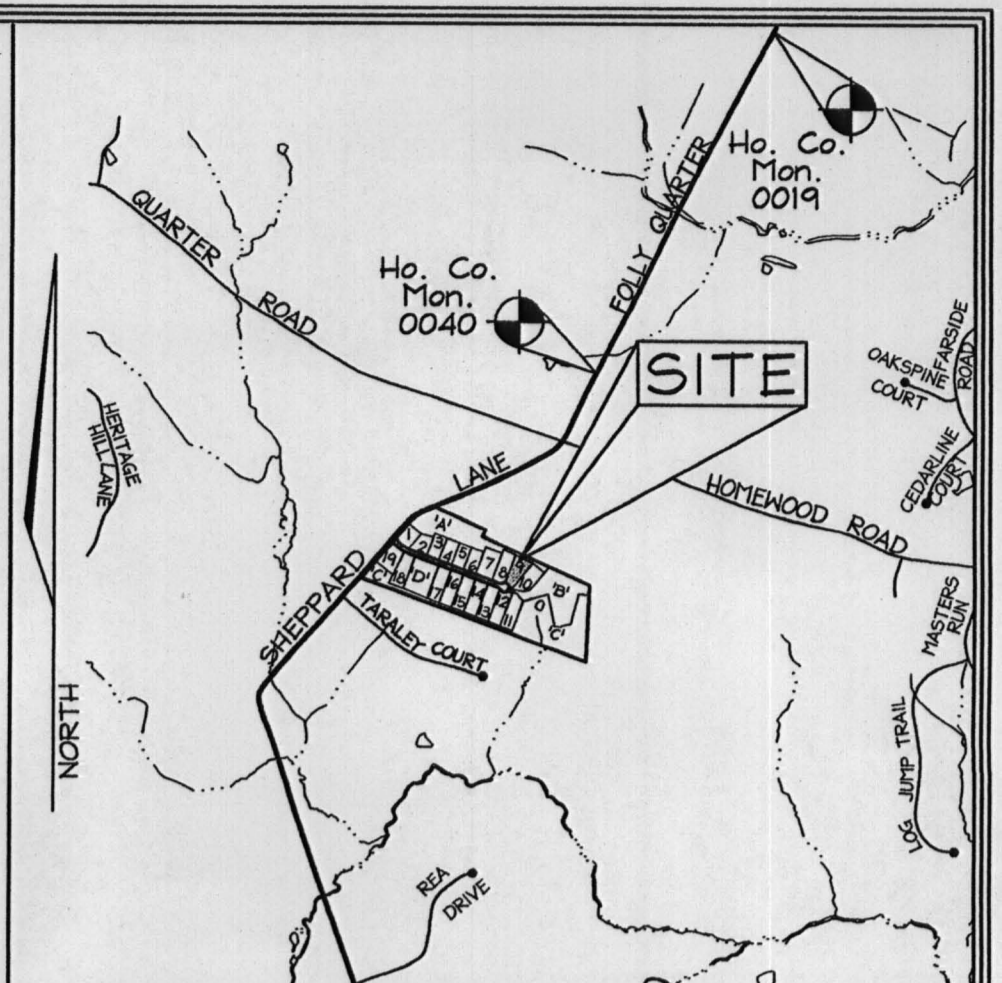


- Length - minimum of 50' (#30 for a single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equipment 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. Pipes installed through the stabilized construction entrance shall be protected with a mountable berm with 5' slope and a minimum of 4" 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.

DETAIL 33 - SUPER SILT FENCE



- 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.
- 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.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 6" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 4" and fastened.
- Maintenance shall be performed as needed and all buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
- 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.)
 - Tensile Modulus: 20 lbs/in (min.)
 - Flow Rate: 0.9 gal/ft. Area (max.)
 - Filtering Efficiency: 75% (min.)



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

BENCHMARKS

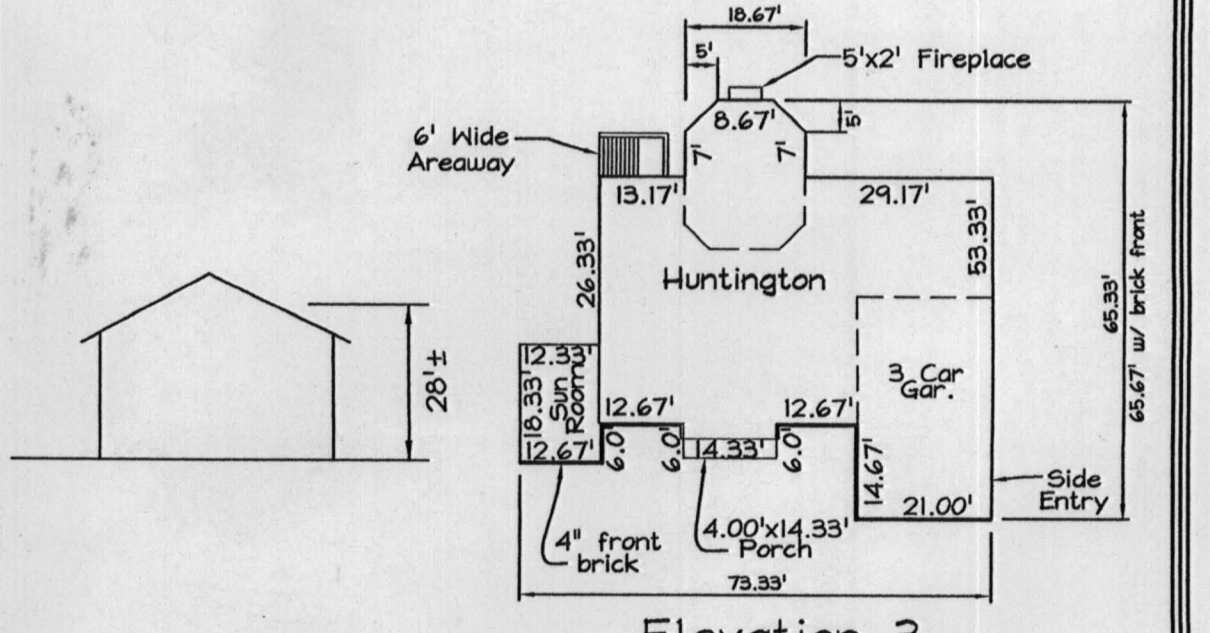
Sta.	0019	N 176,927.034	E 406,505.110	E1: 117.6061 (meters)
		N 580,468.128	E 1,333,675.518	E1: 385.846 (feet)
	0040	N 175,952.4260	E 405,995.1970	E1: 111.3465 (meters)
		N 577,270.584	E 1,332,002.575	E1: 365.309 (feet)

GENERAL NOTES

- 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.
- Total area of property = 47,179 sfs or 1.083 Ac.
- Private water, and sewer will be used within this site.
- 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. Recardation of a modified sewage easement shall not be necessary.
- The septic fields are located on soil types Br-C2, Br-C3, MIB2, MIC2, MID2 and MgC2 as per the soil survey of Howard County, Soils Map #14.
- 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.
- Spot Material of Septic Trench Excavation shall be placed uphill of trench.
- When digging septic trenches contractor shall place excavated material on the uphill side of the trench.
- The existing well shown on this plan (identified with the attached well tag number: HO-95-0731) has been field located by FSH Associates, Inc. on August 17, 2007 and is accurately shown.
- All existing wells and/or septic systems within 100' of the property boundaries have been shown.

SEQUENCE OF CONSTRUCTION

- Obtain grading permit.
- Notify Howard County Department of Inspections, License and Permits at (410) 315-1860 at least 24 hours before starting any work.
- Install Stabilized Construction Entrance.
- After receiving permission from the sediment control inspector, rough grade site and begin building construction.
- Construct driveway and finish building construction.
- Final grade site.
- 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.



HOUSE TYPE
Elevation 3
NOT TO SCALE

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 REVISED PERLOCATION CERTIFICATION PLAN SHEPPARD MANOR LOT 9

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

FSH Associates
Engineers Planners Surveyors
6839 Howard Lane, Elkridge, MD 21075
Columbia, Maryland 21044-3834
E-mail: info@fshri.com

DESIGN BY: AY
DRAWN BY: AY
CHECKED BY: ZYF
SCALE: As shown
DATE: Nov. 15, 2007
P.L.O. No.: 3160
SHEET No. 1 OF 1

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. #34689, Expiration Date: 7/08/2009.

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

B. Wilson de Peter Balaban, MD 12/12/07
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT