

CONTACT ROBERT WEAVER @ 443-367-0422 EX 219
WITH TERC DATE INFORMATION.



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

A/P 523751

AGENCY REVIEW: _____

DATE 12/23/05

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH EXISTING PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE UNKNOWN IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) ROSE HILL LLC 40 DAVID & BARBARA COSTELLO

DAYTIME PHONE 410-740-9500 CELL 410-365-5700 FAX 410-997-2800

MAILING ADDRESS 979 ROUTE 97 COOKSVILLE, MD 21723
STREET CITY/TOWN STATE ZIP

APPLICANT DONALD R. KEUWER LAND DESIGN & DEVELOPMENT LLC

DAYTIME PHONE 443-367-0422 CELL _____ FAX 443-367-0420

MAILING ADDRESS 5300 DORSEY HALL DRIVE ELLICOTT CITY, MD 21042
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION SUBDIVISION/PROPERTY NAME ROSE HILL FARM, LLC PARCEL NO. 38

PROPERTY ADDRESS 979 ROUTE 97 COOKSVILLE MD 21723
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 8 GRID 6 PARCEL(S) 38 PROPOSED ~~PARCEL~~ SIZE 72.5 AC ±

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT.

SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
3525-H ELLICOTT MILLS DRIVE, ELLICOTT CITY, MARYLAND 21043-4544 (410) 313-1771 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

A/P _____

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H

REMARKS _____

SANITARIAN _____ BACKHOE _____ OTHERS _____

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____



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STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

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SUBDIVISION/PROPERTY NAME ROSE HILL FARM, LLC LOT NO. 1

PROPERTY ADDRESS 979 ROUTE 97 COOKSVILLE MD 21723
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CA/PS23752

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TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

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PARCEL

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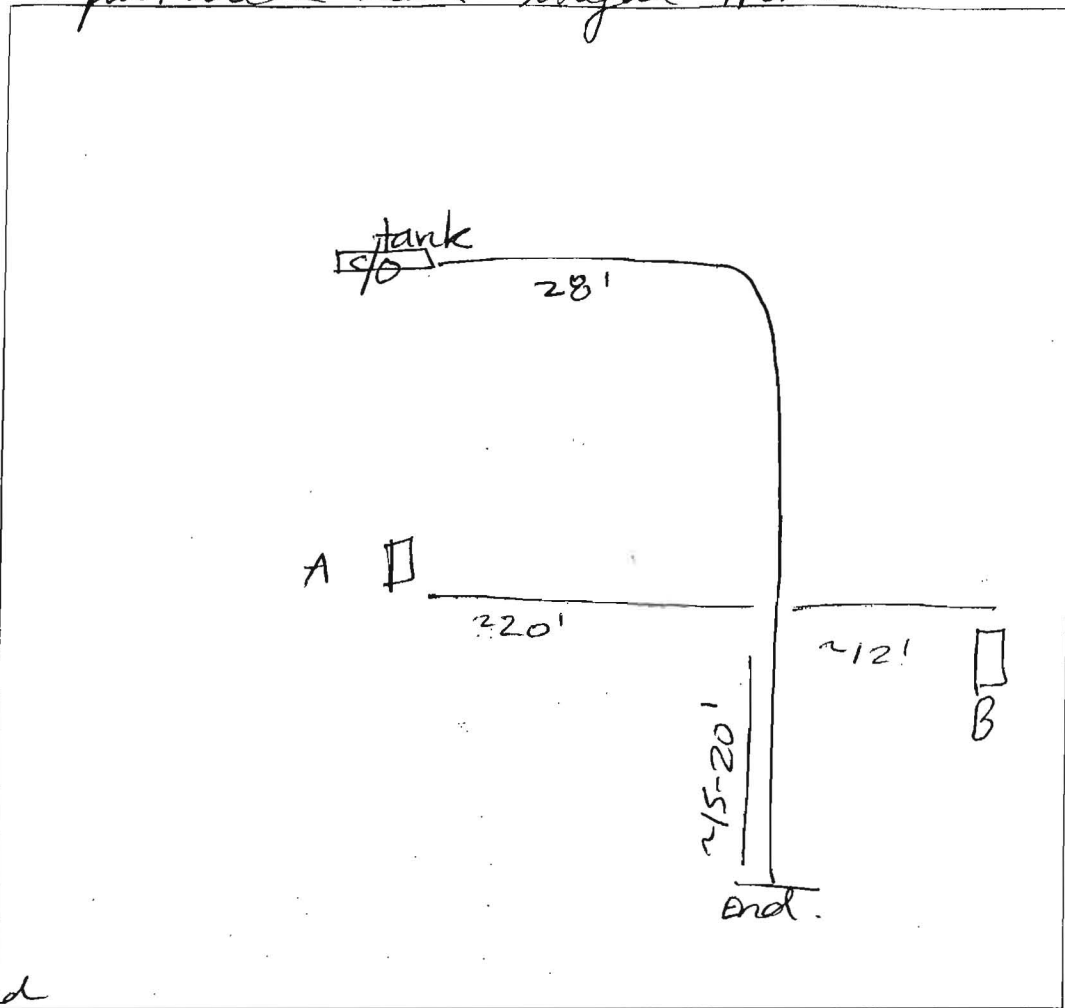
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SANITARIAN _____ BACKHOE _____ OTHERS _____

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

Repair area near illegal trench



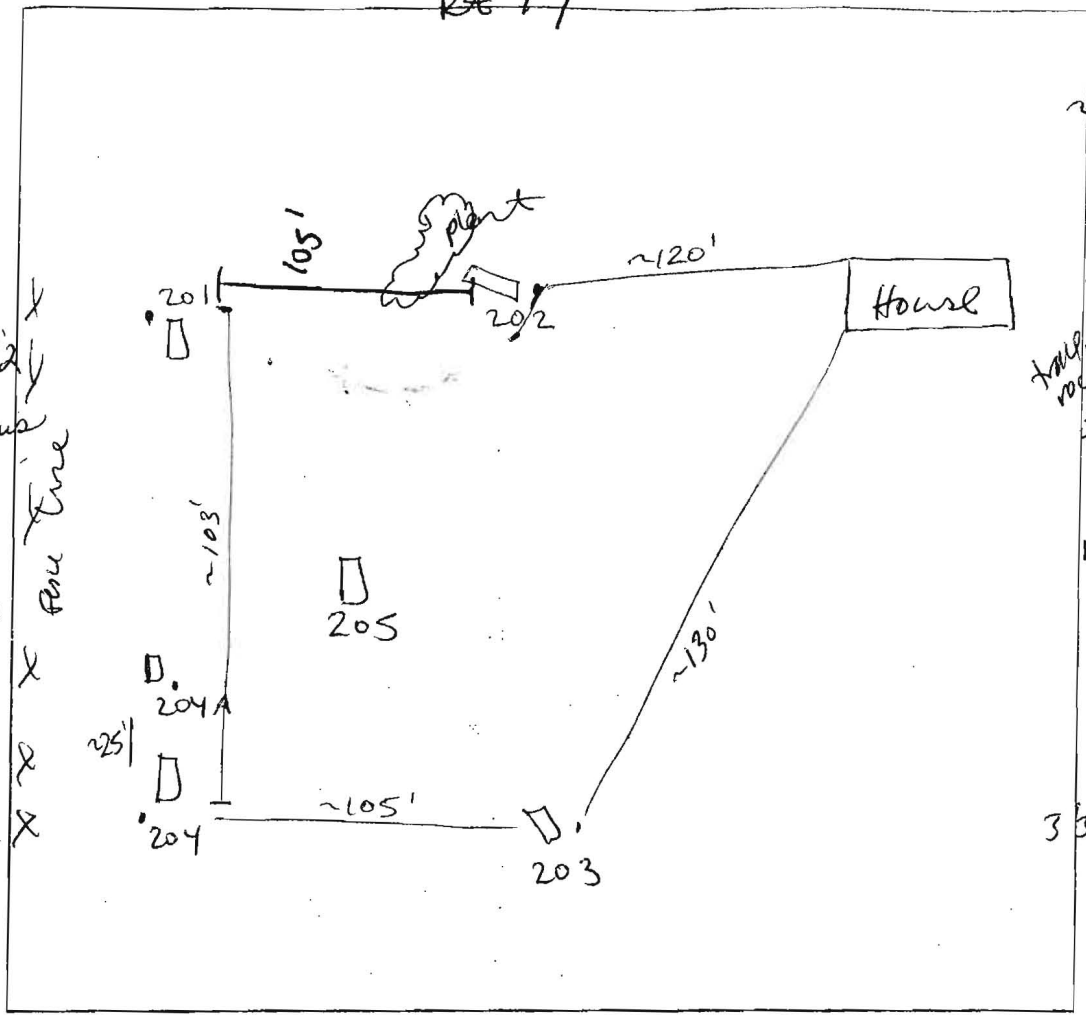
A
 1' dark brown L sbk
 reddish yellow scl m
 4' olive gray dense in ground sl sg w/channeled flaggy 20-25% micaceous
 HB

B
 1' dark brown L sbk
 reddish yellow scl sbk/m
 5' olive gray brown dense in ground sl well compacted micaceous channeled flaggy 25% HB

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DRCP	TIME OF 2nd INCH	P/F/H
2/15/06	A	5' / 10'	11:12 ³⁷	11:30	too slow		F
	B	6' / 10'8"	11:32	11:47	too slow		F

REMARKS Unsatisfactory area - very dense in ground
 SANITARIAN SF BACKHOE Fogels OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT./BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

Existing house → N Rt 97



204A
dark brown L
reddish yellow
scl
micaceous
3'
South / North
reddish yellow / brown
dense sil / dense sil
micaceous / micaceous
40% platy chert
brown chert
brown fine sil
micaceous
13'

204
dark brown L sbk
reddish brown
h1 sbk
1'2"
pale brown
dense sil / scl
3'
brown
sil sg
micaceous
very compacted
in ground
olive brown
sil well sorted
12'

203
dark brown L
1'
reddish yellow
scl sbk
cw
micaceous
2'4"
brownish yellow
fine sil sg
trap rock

201
dark brown L
21'
reddish yellow
fine sil
micaceous
18'
yellow
dense sil
sg micaceous
3'
white
fine sil sg
micaceous
15/sand
13'

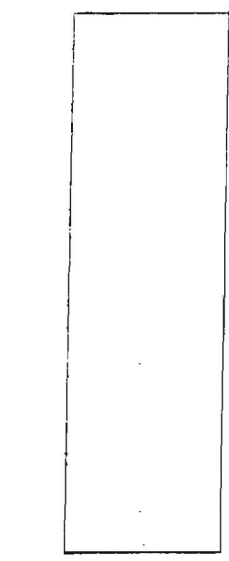
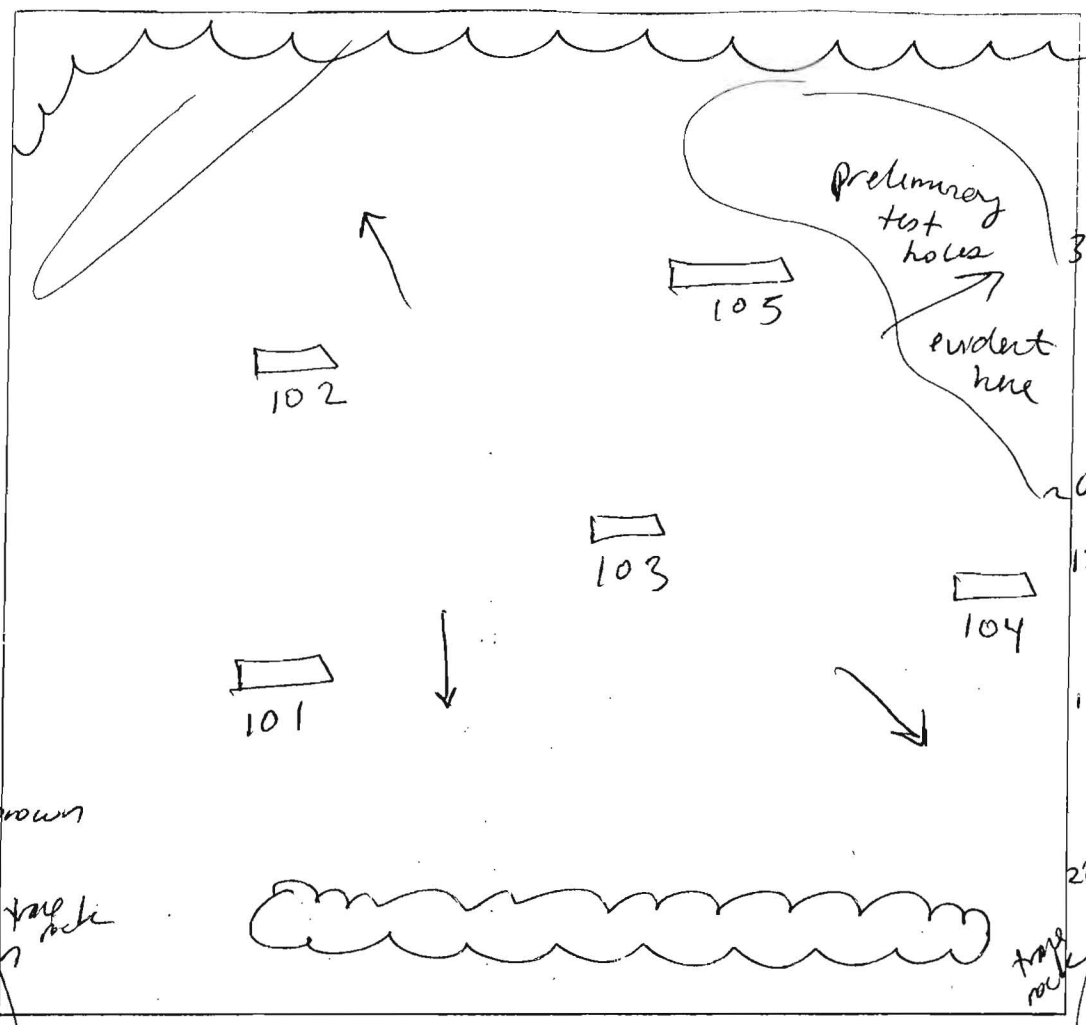
205
dark brown L
reddish yellow
scl m
3'3"
pale yellow
brown
sl sg
micaceous
trap rock
white ls
sg 13'

202
dark brown L m
reddish yellow
scl cw m
micaceous
3'
pale brown
fine sil
micaceous
15/s sg
13'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
2/2/06	204	4'9" / 12'	1:30	even @ 7'	to hand		F
	203	4'5" / 13'	1:35	1:40	1:44	4	P
	201	4'3" / 13'	1:44	1:46	1:49	3	P
	205	13'			visual	ok	P
	204A	4'2" / 13'	2:24	2:38	3:08	30	P
	202	4'3" / 13'	2:08	2:13	2:21	8	P

REMARKS field staked - great holes = 204A marginal
 SANITARIAN SF BACKHOE M. Johnson (AEC) OTHERS R. Webster
 TEST HOLES USED IN SDA 13 AVG. PERC TIME 11 SQ. FT/BR 210
 TRENCH WIDTH 3 INLET DEPTH 3 MAX. BOT DEPTH 7 EFFECTIVE S/W 5

Lot 1



102
dark brown L ssk
1' very pale red brown
dense sil ssk
3' yellowish brown
sil sg micaceous
? yellow brown
coarse sil sg cw spherule
12'

101
brown L ssk
1' upmill downmill
red yellow sil ssk micaceous
red yellow sil ssk pale brown sil sg coarse
3'5" micaceous
5/8 gravel cobble throughout profile spherule
13'5"

104
dark brown L ssk
pale red brown sil micaceous
downhill uphill brown red yellow
sil well compact in ground micaceous
6' fine sil cw sg spherule
13'

105
brown L ssk
1' red yellow hsil/sil cw ssk micaceous
2'6" brown fine sil sg dense ground
pale brown coarse sil cw sg
12'5"

103
dark brown L ssk
1' yellow brown sil/cl w/light red
2'6" red yellow sil sg dense ground micaceous
5' coarse sil
2'9" red yellow fine sil
13' spherule distribution blocks

DATE	TEST #	DEPTH	START	BREAK 1" DRCP	STOP 2" DRCP	TIME OF 2nd INCH	P/F/H
2/2/06	101	6' / 13'5"	10:51	10:56	11:00	4	P
	104	6' / 13'	11:02	11:06	11:08	2	P
	105	4'5" / 12'5"	11:04	11:09	11:17	8	P
	103	4'8" / 13'	11:19	11:25	11:35	10	P
	102	5' / 12'	11:30	11:36	11:45	9	P

REMARKS: Holes dug ~25' from stake - ~~not~~ staked by surveyors
 SANITARIAN: SF BACKHOE: M. Johnson (AEC) OTHERS: R. Webster
 TEST HOLES USED IN SDA: _____ AVG. PERC TIME: _____ SQ. FT./BR: _____
 TRENCH WIDTH: _____ INLET DEPTH: _____ MAX. BOT DEPTH: _____ EFFECTIVE S/W: _____

existing house Sl.6.



APPLICATION

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APP 523752

AGENCY REVIEW: _____

DATE 12/2/08

04-311922 DO NOT WRITE ABOVE THIS LINE

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Existing house

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PROPERTY OWNER(S) Barbara + David Costello

DAYTIME PHONE 410 489 2919 CELL 240 463 6183 FAX _____

MAILING ADDRESS 979 RT 97 Brooksville MD 21723
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- Proposed house.

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\$495



December 1, 2005

Ms. Barbara Costello
979 Route 97
Cooksville, MD 21723

7540 Main St. Suite 7
Sykesville, MD 21784
PHONE 410-795-4626
FAX 410-795-4611
www.alwi.com

Re: Results of Preliminary Soils Evaluation; ALWI Project No. HO5V739

Dear Ms. Costello:

Advanced Land and Water, Inc. (ALWI) has completed the preliminary soils evaluation pursuant to our contract. As discussed on November 28, 2005, we identified a potentially suitable sewage disposal area in the eastern, rear portion of your property. Our evaluation supports performance of formal percolation testing by the Howard County Health Department (HCHD) in the identified area.

SYSTEM CAPACITY AND SIZING REQUIREMENTS

Based on your plans to subdivide one lot for a proposed four bedroom single family home, the guidelines for sewage disposal area (SDA) sizing presume a design flow of 600 gallons per day (gpd). The proposed SDA we identified appears sufficiently large to accommodate this flow plus two reserve areas.

UNSUCCESSFUL EVALUATION IN FRONT OF PROPERTY

Prior to our involvement, Hatfield's septic service (Hatfield) performed preliminary soil excavations and percolations testing in the front portion of the property, near the existing barn (Figure 1). ALWI reviewed these data with Hatfield prior to fieldwork.

We then excavated and evaluated several additional soil pits near the Hatfield study area. We found this area (1) had insufficient depth to rock to support standard trench systems and in some cases sand mound systems, and (2) failed to achieve the minimum permeability requirements of 60 minutes per inch (mpi) to support sand mound systems.

SUCCESSFUL PRELIMINARY SOILS EVALUATIONS IN THE REAR OF THE PROPERTY

We then explored the eastern portion of the property. There we found a potentially suitable SDA underlain by the Chester silt loam 3-8% slope. Our favorable observations are summarized in Table 1 as follows:

- Topography/Geographical Location** - We selected the rear SDA location based on level ground, no evidence of rock outcropping, and sufficient surface water shedding (Figure 1).

- ❑ **Permeable Soil Texture** - Our observations of pits 16, 18, 20 and 21 indicated they shared the following similar soils characteristics: (1) a clay-rich surface soil layer; and (2) a mixture of deep fine loamy sands and sandy loams below a transition zone three to four feet below grade. These deeper soils have permeable textures and appear capable of supporting a standard trench system.
- ❑ **Thickness of Suitable Soils** - The depth of the pits were guided by the interpreted depth to rock. ALWI excavated these same four pits to a depth varying from seven to twelve feet. In three of the pits, the depth to rock was observed to a depth of 11 feet or greater. In the fourth pit, bedrock was observed at a depth of seven feet.
- ❑ **Percolation Testing** - For the purposes of establishing a sufficient SDA, the three pits with the greatest depth-to-rock were selected and flagged for further review by HCHD. We performed a standard percolation test in the center of the three chosen pits (perc test 21) at a depth of 40 inches. The maximum percolation rate observed was 15 mpi. This rate was not run to a steady rate; based on our prior experience, the steady rate would probably be in the 20 mpi range.

FINDINGS AND RECOMMENDATIONS

ALWI believes that the eastern area described herein would be capable of supporting a standard trench system. The steps remaining are:

1. To submit a percolation testing and site evaluation application to HCHD. We recommend that a copy of this letter-report and attachments also be provided; and
2. For a surveyor to locate our fieldwork and the HCHD percolation tests during their site evaluation.

Thank you for the opportunity to have served your wastewater permitting needs. We look forward to working with you in the future. Please advise whether you wish for us to be present during the HCHD percolations tests. We remain available to answer any questions that may arise.

Respectfully submitted,



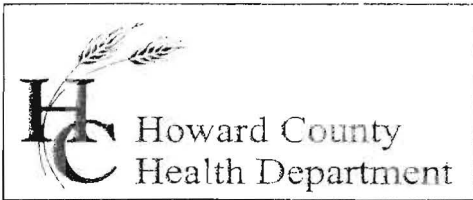
DANIEL V. SMITH, R.S.
Environmental Sanitarian



AMY C. MARTINEZ
Project Scientist

DVS/ACM/tib

Attachment(s)



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

February 7, 2006

David and Barbara Costello
979 Rt. 97
Cooksville, MD 21723

RE: PERCOLATION TEST RESULTS – A523752
Tax Map 8, Parcel 38
979 Rt 97

Dear Mr. and Mrs. Costello:

Percolation testing conducted February 2, 2006 on the referenced property indicated satisfactory soil conditions. Copies of the test results are enclosed. In addition, before the approval of a percolation certification, the septic system for the existing house will require an inspection. The inspection will involve excavating the distribution box, and/or the pipe extending from the septic tank to the trench, and the middle and end of the trench system. If you choose not to excavate, you will be required to abandon the current system and install a new one in the approved septic reserve area.

Further review is contingent upon submission by a registered engineer/surveyor of a percolation certification plan showing the following:

- 1) Actual locations and elevations of all excavated test holes
- 2) Proposed building, well and septic system
- 3) Locations of well and septic system for existing house
- 4) Locations of any other relevant features such as streams, swales, or existing structures
- 5) A note must be included certifying that all existing wells and septic systems within 100 feet of property boundaries have been shown
- 6) A note indicating that depicted topography reflects field-matched information
- 7) A note stating all wells to be drilled prior to final plat approval
- 8) A health officer signature block stating "approved for private water and private sewer systems"
- 8) A MDE sewage disposal area statement is required
- 9) MDE minimum lot width statement
- 10) General statement regarding the maximum number of bedrooms per home

If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-1771.

Sincerely,

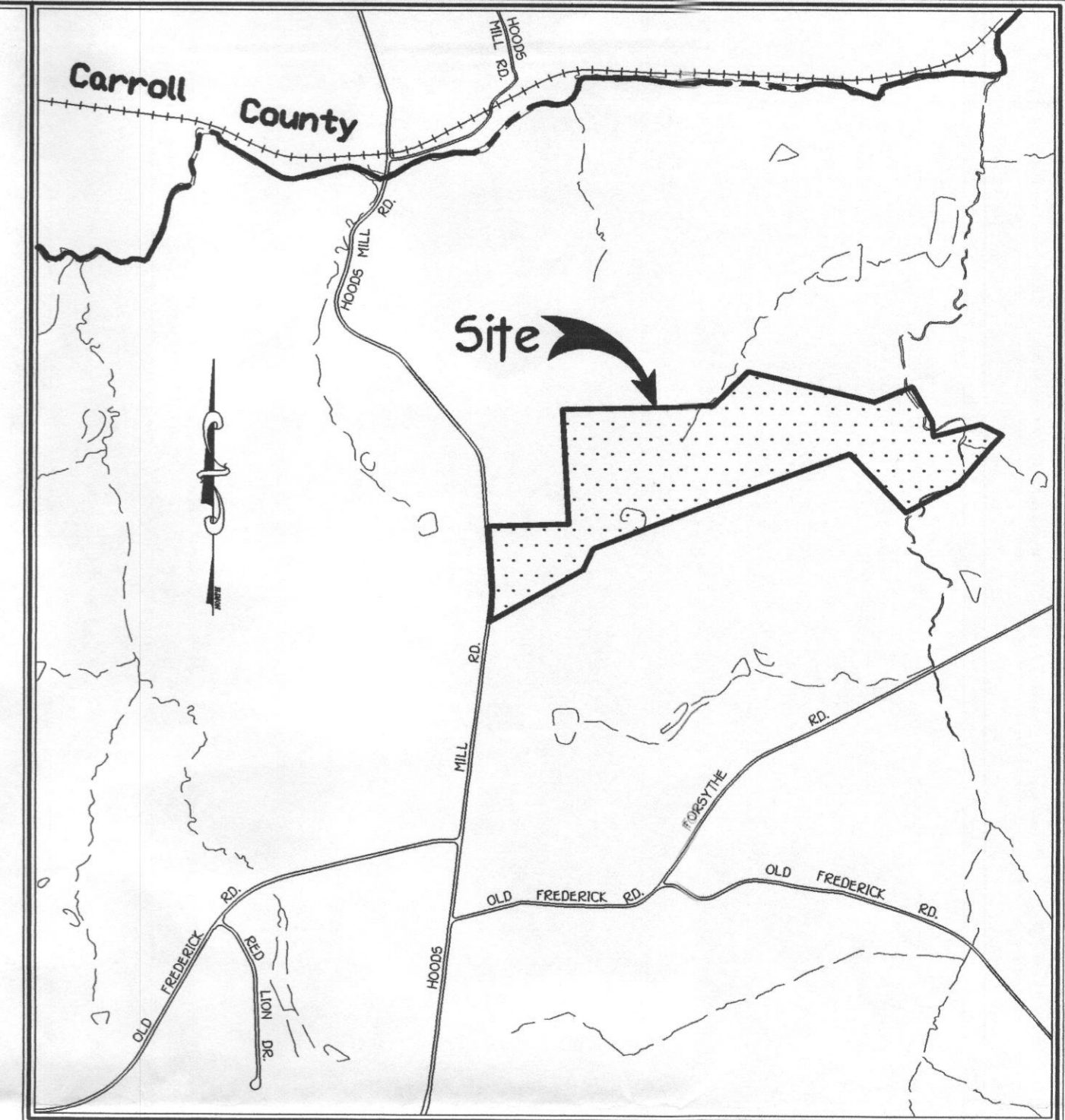
Sara Fegel
Well and Septic Program
Development Coordination Section

SF
Enclosures
Cc: Land Design and Development Inc.
File

SOILS LEGEND		
SOIL	NAME	CLASS
NeB2	Neshaminy silt loam, 3 to 8 percent slopes, moderately eroded	B
MdD	Montalto and Relay very stony silt loams, 3 to 25 percent slopes	B
GIC3	Glenelg loam, 8 to 15 percent slopes, severely eroded	B
GIB2	Glenelg loam, 3 to 8 percent slopes, moderately eroded	B
* KeC2	Kelly silt loam, 8 to 15 percent slopes, moderately eroded	D
EkB2	Elioak silt loam, 3 to 8 percent slopes, moderately eroded	B
MIB2	Manor loam, 3 to 8 percent slopes, moderately eroded	B
NdD3	Neshaminy silt loam, 15 to 25 percent slopes, severely eroded	B
MnD	Manor very stony loam, 3 to 25 percent slopes	B
* CuB	Cornus silt loam, local alluvium, 3 to 8 percent slopes	B
MIC3	Manor loam, 8 to 15 percent slopes, severely eroded	B
GIC2	Glenelg loam, 8 to 15 percent slopes, moderately eroded	B
EIC3	Elioak silty clay loam, 8 to 15 percent slopes, moderately eroded	D
* KeB2	Kelly silt loam, 3 to 8 percent slopes, moderately eroded	B
* GrB2	Glenville silt loam, 3 to 8 percent slopes, moderately eroded	C
GIC2	Glenelg loam, 8 to 15 percent slopes, moderately eroded	B
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
Mrf	Manor very stony loam, 25 to 60 percent slopes	B
MIE	Manor loam, 25 to 45 percent slopes	B
** Ha	Harboro silt loam	D
GID2	Glenelg loam, 15 to 25 percent slopes, moderately eroded	B
LgC3	Legore silty clay loam, 8 to 15 percent slopes, severely eroded	B

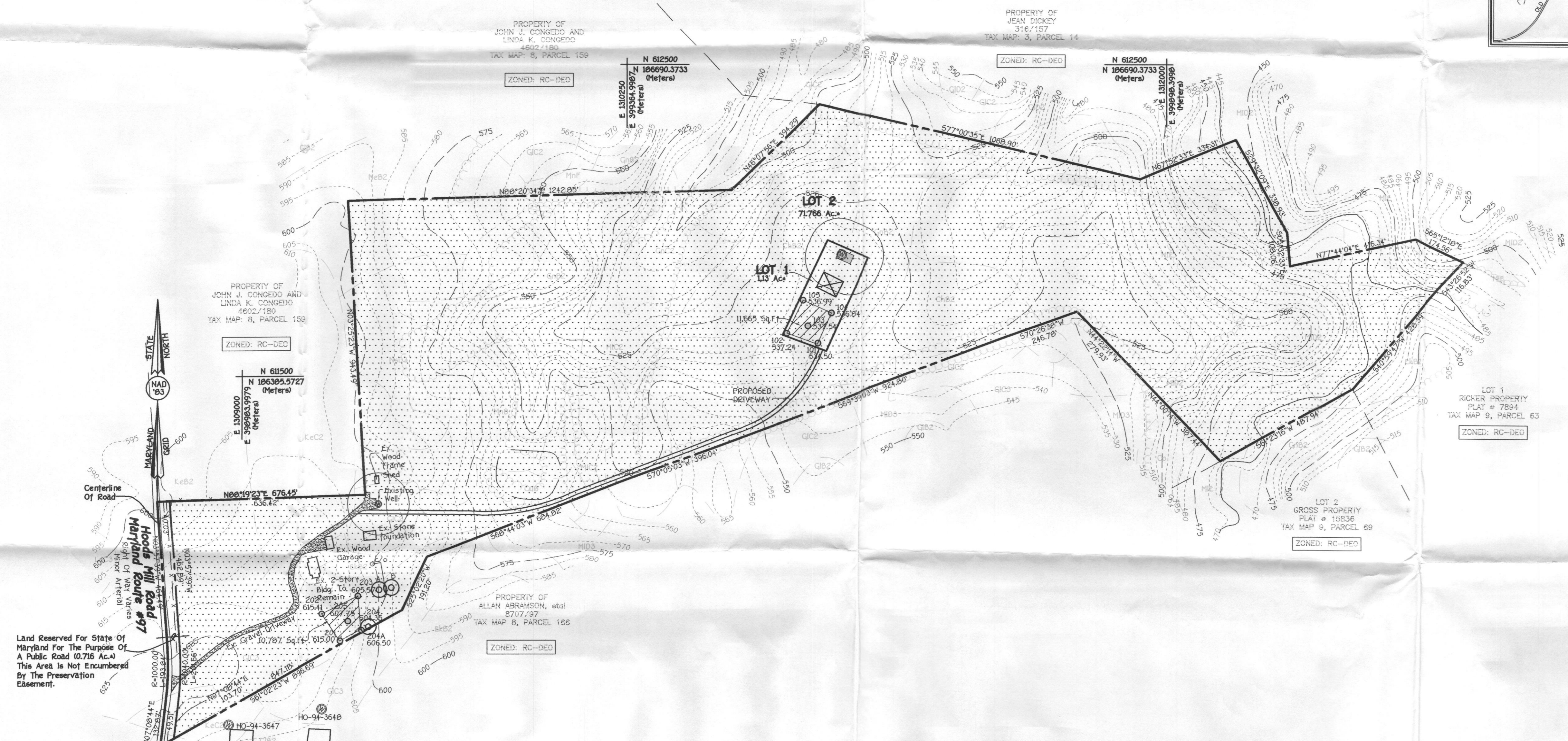
- NOTES:
- * Hydric soils and/or contains hydric inclusions
 - ** May contain hydric inclusions
 - † Generally only within 100-year floodplain areas

- LEGEND
- EXISTING 2' CONTOURS
 - EXISTING 10' CONTOURS
 - EXISTING TREE LINE
 - SOIL LINES AND TYPES
 - DENOTES PROPOSED WELL
 - DENOTES FAILED PERC
 - DENOTES PASSED PERC
 - DENOTES PROPOSED PERC
 - DENOTES PROPOSED HOUSE
 - DENOTES 15%-24.9% SLOPES
 - DENOTES 25% AND GREATER SLOPE
 - DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE



Vicinity Map
Scale: 1"=1200'

- GENERAL NOTES:
- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 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, 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.
 - ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
 - THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
 - EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
 - ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
 - ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORDED PLAT.
 - TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY GIS TOPOGRAPHY AT 5' CONTOUR INTERVAL INTERPOLATED FOR 2' CONTOUR INTERVAL.
 - BOUNDARY OUTLINE BASED ON FIELD BOUNDARY SURVEY PERFORMED ON OR ABOUT JUNE, 2004 BY DART-MCCUNE AND WALKER.
 - DEED REFERENCE LIBER 3079 FOLIO 613



Land Reserved For State Of Maryland For The Purpose Of A Public Road (0.715 Aca) This Area Is Not Encumbered By The Preservation Easement.

PERC CERTIFICATION

I certify that the locations shown hereon are based on field locations done under my direct supervision and are correct to the best of my professional knowledge and belief.

Signature of Professional Land Surveyor: *Terrell A. Fisher*
 Terrell A. Fisher, Professional Land Surveyor No. 10692

Date: 5/18/06

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT.

Signature of County Health Officer: *Robert J. Walker*
 COUNTY HEALTH OFFICER

Date: 5/22/06

Owner
 Rose Hill Farm, LLC
 c/o Mr. & Mrs. David And Barbara Costello
 979 Route 97
 Cooksville, Maryland 21723

Developer
 Mr. & Mrs. Kennard Warfield, Jr.
 1445 Tridelphia Road
 Glenelg, Maryland 21737

PERC CERTIFICATION PLAT
 ROSE HILL FARM, LLC
 LOT 1 AND 2

Zoned: RC-DEO

Tax Map: 8 Parcel 38 Grid 6
 Fourth Election District
 Howard County, Maryland

Scale: 1"=200
 Date: May 18, 2005
 Sheet 1 of 1 PC 523752

SIGNED PERC CERT 5/22/06