

Pres. Parcel 'A'



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_ AP 528406-13  
AGENCY REVIEW: \_\_\_\_\_ DATE \_\_\_\_\_

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 (future)

CHECK AS NEEDED:

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

CHECK ONE:

- CREATE NEW LOT(S) (Property Residue/Pres. Parcel)
- 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 4 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) Allen & Wanda Hudson

DAYTIME PHONE — CELL 443-250-1663 FAX —

MAILING ADDRESS 14010 Forsythe Road Sykesville, Maryland 21784  
STREET CITY/TOWN STATE ZIP

APPLICANT LDE, Inc. (Steve Heiss)

DAYTIME PHONE 410-715-1070 CELL 443-928-4135 FAX 410-715-9540

MAILING ADDRESS 9250 Rumsey Road Columbia, Maryland 21045  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION Hudson Property Ex-house Buildable Pres. Parcel 'A'  
SUBDIVISION/PROPERTY NAME LOT NO.

PROPERTY ADDRESS 14010 Forsythe Road Sykesville, MD 21784  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 8 GRID 6 PARCEL(S) 39 PROPOSED LOT SIZE 417,686 s.f.

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.

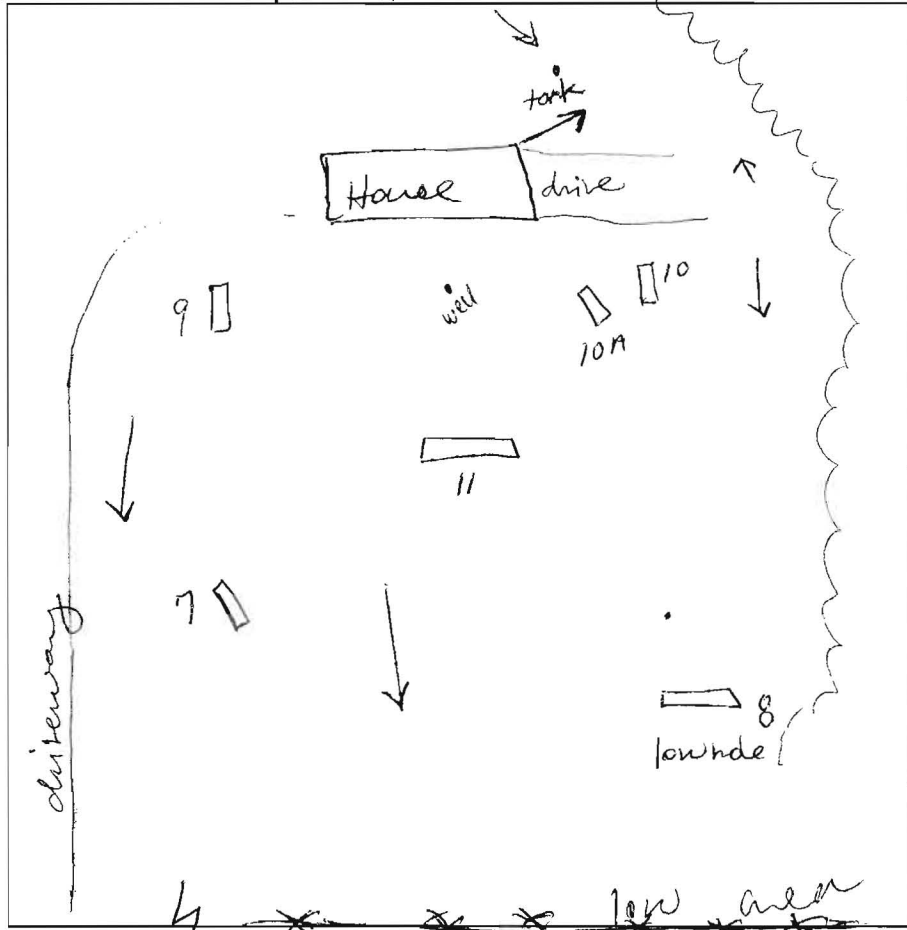
TEST RESULTS WILL BE MAILED TO APPLICANT.

Steve Heiss  
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

APV 520406-B

Panel A



10  
dark brown  
coarse sl  
fine?  
brown red  
40% chert  
coarse chert  
7'  
cave in  
50%  
stony

10A  
fine  
2'  
brown red  
sl sbk  
micaceous  
uphill 3'8" 10% stony  
brown red coarse sl stony cement

7  
pale brown  
med/coarse  
sl sg  
Saprolite

7  
dark brown  
sl sbk  
11'  
15% coarse  
chert  
brown  
red sl  
sbk micaceous  
3'  
st. brown  
med-heavy  
sl sg  
micaceous  
3'5  
pale brown  
fine/med sl sg  
Saprolite

14'  
med/coarse sl  
Saprolite sg  
20% coarse  
chert

9  
dark brown  
sl sbk  
4'  
brown red  
sl sbk  
micaceous  
brown  
med sl  
micaceous  
Saprolite  
~15% chert  
coarse chert

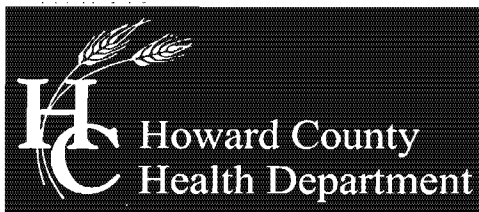
11  
dark brown  
l sbk  
1'  
brown red  
sl sbk  
micaceous  
2'  
brown red  
med heavy sl  
w/ patches of  
sl  
micaceous  
3'  
brown  
med. sl/sl  
Saprolite  
9'  
15% coarse  
chert  
turner's bottom  
made stony  
15%

8  
brown l  
sbk  
4'  
brown red  
sl sbk  
brown  
coarse sl sg  
Saprolite  
9'5  
H2O level  
10'5  
refusal

notes  
9'  
15% coarse  
chert  
35-40%  
coarse  
chert  
9'5  
10'5

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H	
3/14/08	11	4' / 14'5	12:00	12:12	12:24	12	P	
	8	5' / 10'5	12:56			No movement		
		5'5	1:14	1:18	1:28	10	F	
			Failed due to ↑ buffer					
	10		7' cave in of rock					F
	10A	4'3 5'5	no movement					
		6' 7' / 13'	no movement					
	7	4'5 / 14'	3:15	3:17	3:21	4	P	
	7	4'5 / 14'	1:58	2:02	2:08	6	P	
	9	14'	visual					P

REMARKS Staked by engineer  
SANITARIAN SS BACKHOE Souder OTHERS over Saprolite sg  
TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME 5.4 hrs SQ. FT/BR 20% coarse  
TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_  
chert



Bureau of Environmental Health  
7178 Columbia Gateway Drive, Columbia, MD 21046-2147  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

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Peter L. Beilenson, M.D., M.P.H., Health Officer

April 4, 2008

Allen and Wanda Hudson  
14010 Forsythe Rd  
Sykesville, Maryland 21784

RE: Percolation Test Results – A528406-A  
14010 Forsythe Rd

Dear Mr. and Mrs. Hudson,

Percolation testing conducted on March 14, 2008 on the referenced property indicated satisfactory and unsatisfactory soil conditions. Copies of the test results are enclosed. Limiting factors include rock percentages >50% at shallow depths along with increased buffer depths to groundwater.

Further review is contingent upon submission of a percolation certification plan showing the following:

- 1) Actual surveyed locations and elevations of all excavated test holes. Hold 25' from test hole #5 to proposed SDA.
- 2) Proposed house site (55' x 70') or footprint, including building restriction lines as determined by other County agencies, and driveway location
- 3) Existing and proposed property lines
- 4) Proposed well sites. Either 3 well sites with 100-foot setback for each, or one 1500 sq. ft. well box w/elliptical radius of 100' around the entire zone for each proposed lot
- 5) Proposed SDA. locations
- 6) A note must be included certifying that all existing wells and septic systems within 100 feet of property boundaries have been shown
- 7) A note stating all existing and proposed wells, septic systems and sewage disposal systems located within 200 feet down gradient of existing or proposed septic systems and sewage disposal easements.
- 8) A note stating the engineer used all reasonable efforts to find the location of all surrounding wells and septic systems
- 9) Topography needs to be shown at 2 foot contour intervals and a note certifying topography was field run and verified and reflects field-matched information
- 10) A note stating, "All wells to be drilled prior to final plat approval. It is the developer's responsibility to schedule the well drilling prior to building permit submission. It will not be considered 'government delay' if the well drilling holds-up the Health Department signature of the record plat."
- 11) A MDE sewage disposal area statement is required
- 12) MDE minimum lot width statement
- 13) Include the statement, "Any changes to a private sewage easement shall require a revised perc certification plan"
- 14) Identification of streams, ponds, wetlands, floodplains, slopes >25%, soil types and soil type boundaries
- 15) Legend symbols to distinguish between new holes, any existing holes previously documented (by the HCHD), passed holes, failed holes, and any holes held for future review
- 16) Existing structures, wells, septic easements and other septic system components such as tanks, dry wells and distribution boxes. Description of use and intent designated for each item, e.g. 'to remain' or 'remove.'

- 17) A health officer signature block stating "approved for private water and private sewer systems."
- 18) Professional seal or signed statement that "I certify that the information shown heron is based on field work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief."
- 19) Show the location of the abandoned septic trenches found during testing, and add to general notes a note related to the removal of the pipe and gravel at time of septic installation for that lot.
- 20) Identification of the property, road, street address if applicable, tax map page, parcel number, subdivision name (if appropriate); add purpose statement as appropriate, e.g. subdivision, SDA adjustment, percolation certification plan etc
- 21) Name, address and telephone number of each owner, developer and the plan author.
- 22) The date the plan was drawn, the plan scale (1:30 - 1:100), a scaled vicinity map and, the A # (percolation test fee receipt number, referenced in the HCHD correspondence)

If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-4261.

Sincerely,

Sara Sappington, R.S.  
Well and Septic Program  
Development Coordination Section



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PROPERTY LOCATION Hudson Property Ex-house Buildable Pres.  
SUBDIVISION/PROPERTY NAME LOT NO. Parcel 'A'

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TAX MAP PAGE(S) 8 GRID 6 PARCEL(S) 39 PROPOSED LOT SIZE 417,686 s.f.

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TEST RESULTS WILL BE MAILED TO APPLICANT. Steve Heiss  
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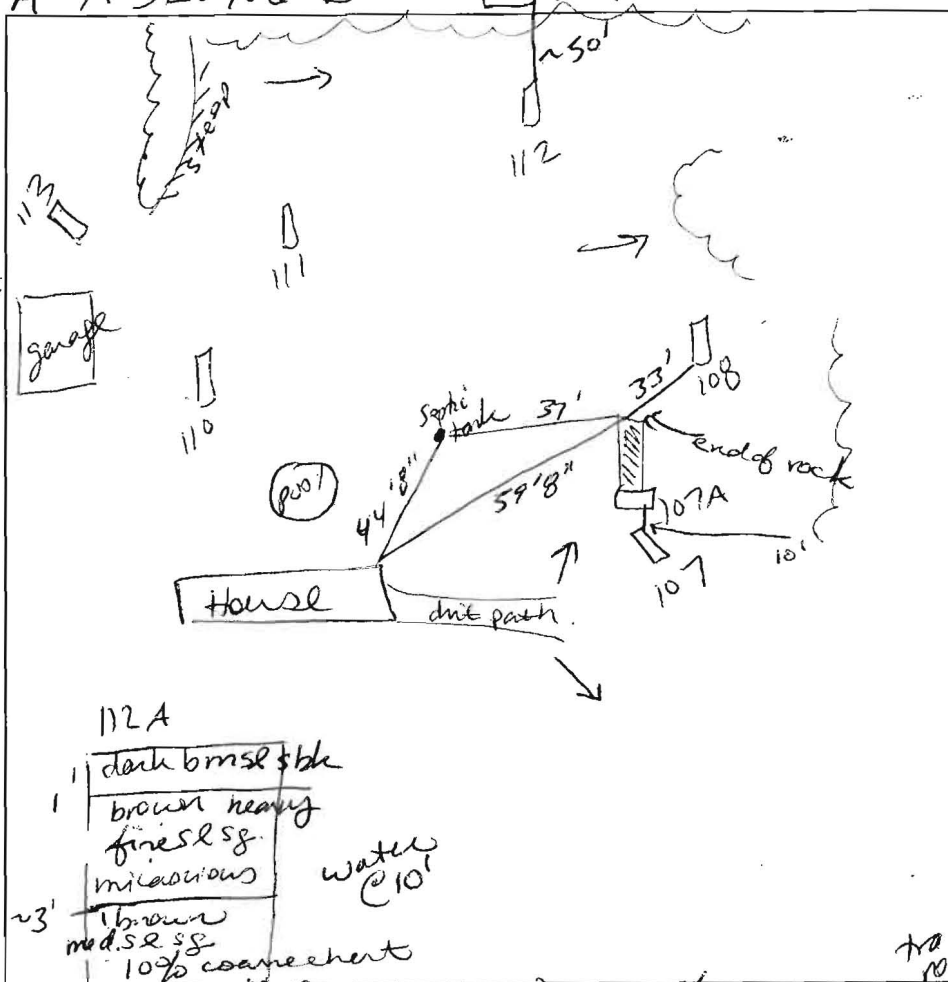
Parcel "A" A 520406-B

AVP

113  
 3' dark brn fill  
 red med. sl sg heavy  
 25% coarse chert stony  
 3'9" brn/pale brn fine sl sg micaceous cw saprolite  
 20% coarse chert decomposing rock  
 15'

108  
 1' dark brn l sbk  
 2' brown fine sl sbk  
 brn heavy sl sg micaceous  
 3' red brn fine/med. sl sg cw micaceous  
 4' pale brn med. sl sg saprolite cw  
 10'5" repage  
 14'5" water

107/107A  
 1' brown l sbk  
 red brn coarse sl 45% coarse chert stony  
 4' brown coarse sl sg 50%+ slate rock stony



112A  
 1' dark brn sl sbk  
 brown heavy fine sl sg micaceous  
 2'3" brown med. sl sg 10% coarse chert micaceous  
 8' P(1-2) nodules (yellow sm + pale brn) 15-20% coarse chert

110  
 1' fill  
 brn sl sbk  
 2'2" brn red fine sl sbk micaceous  
 4'7" brn red heavy fine sl sg cw micaceous saprolite  
 2'6" brn red, pale brn w/ red yeil cw bands fine sl sg cw micaceous  
 15'

111  
 1' dark brn l sbk 15% chert  
 brn red fine sl sbk micaceous 10% chert  
 2'5" red brn heavy fine sl sg micaceous  
 3'3" brown fine sl sg micaceous cw  
 14'

112  
 1-1/2' dark brn l sbk? fill?  
 100% chert red med. sl sbk micaceous  
 3' transition pale brn med. sl sg w/ red med. sl cw ss saprolite 10% coarse chert  
 4' water repage  
 12'  
 14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	PI/FH
4/25/08	108	4'4" / 14'5"	12:33	no movement			
	110	5'	12:49	12:51	12:59	8	P
	110	7' / 15'	1:23	1:32	1:50	18	P
	111	4'2" / 14'	1:40	1:50	2:05	15	P
	112	3'1/2" / 14'	2:21	2:31	2:42	11	P
	113	5' / 15'	2:11	2:17	2:34	17	P
	107	6'			Rock		
	107A	6'			Rock		
	112A	4' / 10'	3:23	3:33	3:48	15	P

Remarks: Poked during wet season 108 6' buffer to water. Holes dug per stake - except # 112A + # 107A

SANITARIAN SS BACKHOE Souder OTHERS \_\_\_\_\_

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

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

# 113 EA @ 4' # 108 EA @ 5' # 112 EA @ 4'  
 # 110 EA @ 6'5" # 112A EA @ 3'1/2" 4' bottom.



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website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

May 14, 2008

Allen and Wanda Hudson  
14010 Forsythe Rd  
Sykesville, Maryland 21784

RE: Percolation Test Results – A528406-A  
14010 Forsythe Rd

Dear Mr. and Mrs. Hudson,

Percolation testing conducted on April 25, 2008 on the referenced property indicated satisfactory and unsatisfactory soil conditions. Copies of the test results are enclosed. Limiting factors include rock percentages >50% at shallow depths along with increased buffer depths to groundwater.

Further review is contingent upon submission of a percolation certification plan showing the following:

- 1) Actual surveyed locations and elevations of all excavated test holes.
- 2) Proposed house sites (55' x 70') or footprint, including building restriction lines as determined by other County agencies, and driveway location
- 3) Existing and proposed property lines
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- 11) A MDE sewage disposal area statement is required
- 12) MDE minimum lot width statement
- 13) Include the statement, "Any changes to a private sewage easement shall require a revised perc certification plan"
- 14) Identification of streams, ponds, wetlands, floodplains, slopes >25%, soil types and soil type boundaries
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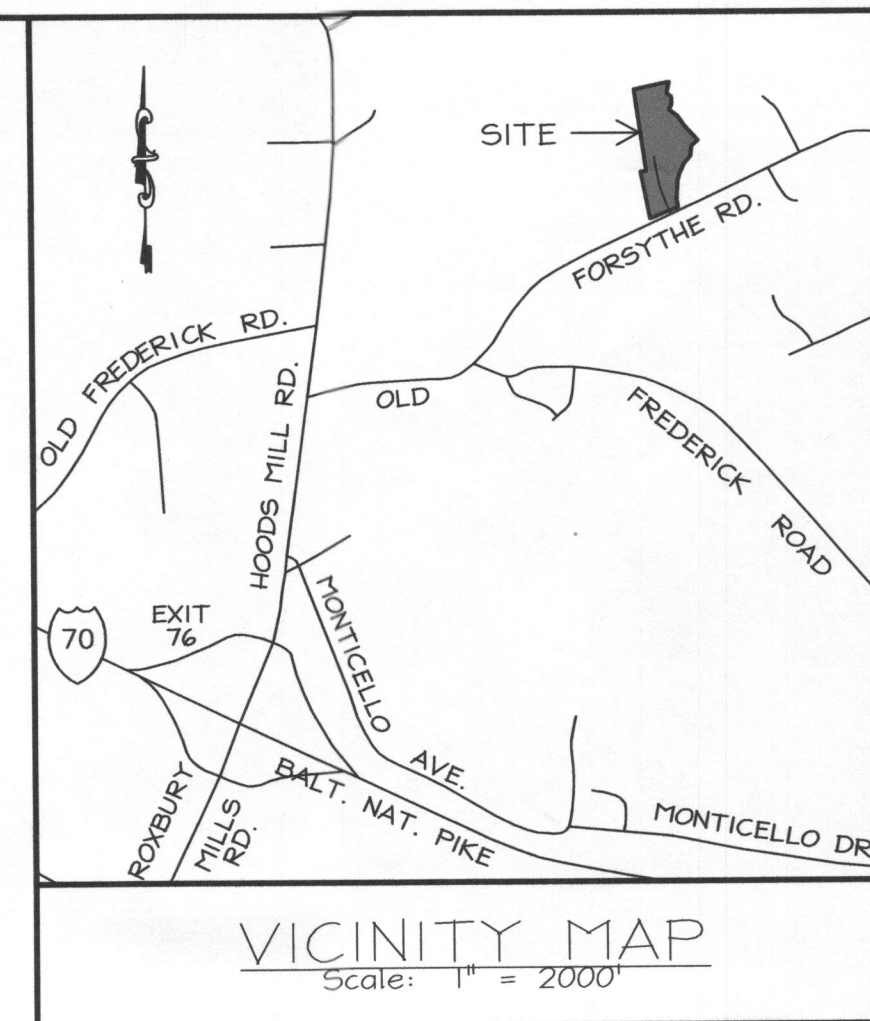
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- 19) Show the location of the abandoned septic trenches found during testing, and add to general notes a note related to the removal of the pipe and gravel at time of septic installation for that lot.
- 20) Identification of the property, road, street address if applicable, tax map page, parcel number, subdivision name (if appropriate); add purpose statement as appropriate, e.g. subdivision, SDA adjustment, percolation certification plan etc
- 21) Name, address and telephone number of each owner, developer and the plan author.
- 22) The date the plan was drawn, the plan scale (1:30 - 1:100), a scaled vicinity map and, the A # (percolation test fee receipt number, referenced in the HCHD correspondence)

If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-4261.

Sincerely,

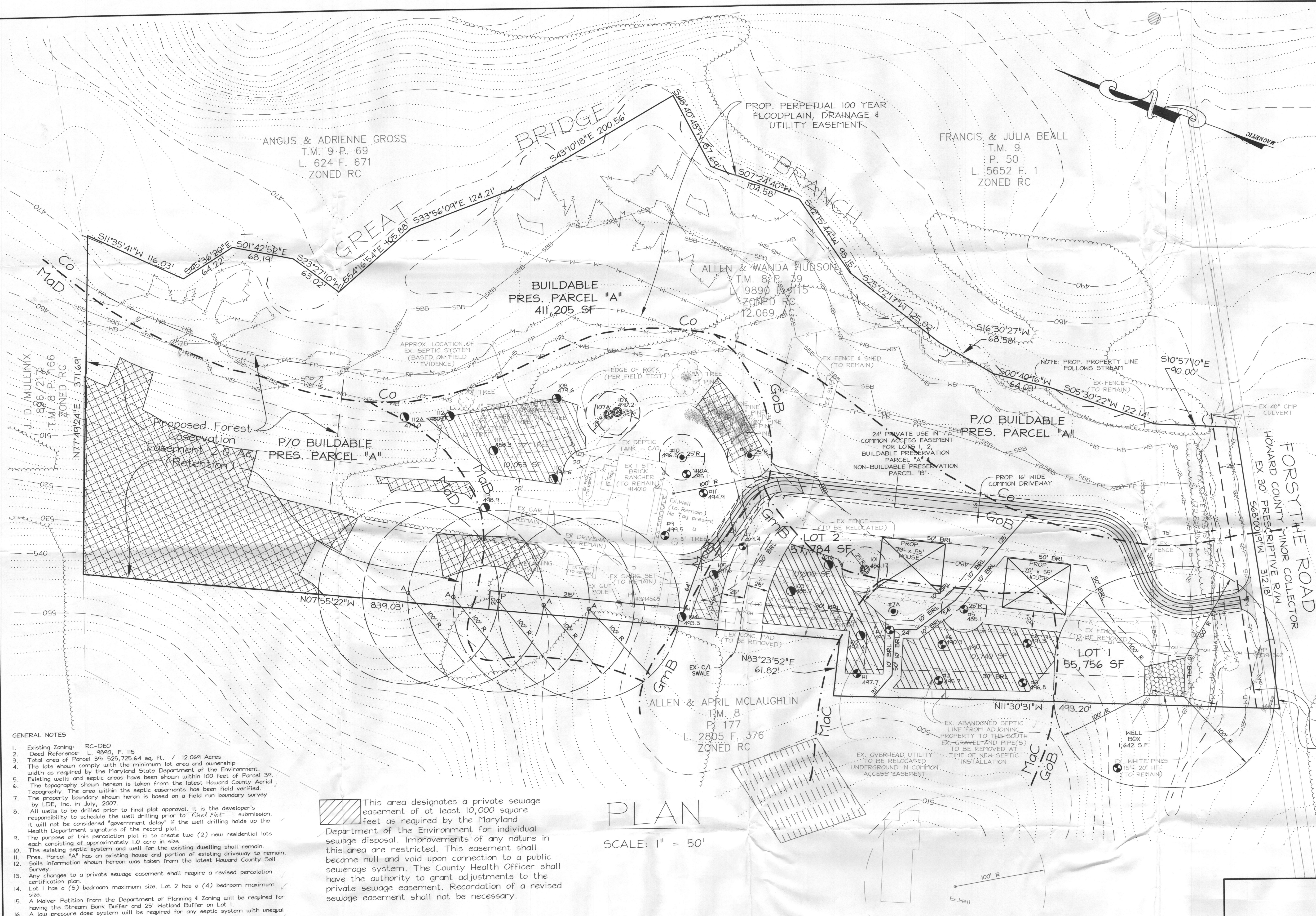
Sara Sappington, R.S.  
Well and Septic Program  
Development Coordination Section

Enclosures



**LEGEND:**

EX. 2' CONTOUR	.....
EX. 10' CONTOUR	----- 500
PROP. 2' CONTOUR	----- 500
PROP. 10' CONTOUR	----- 500
STEEP SLOPES (25% & ABOVE)	[Cross-hatched pattern]
PROPOSED SEPTIC EASEMENT	[Diagonal line pattern]
EX. OFFSITE SEPTIC EASEMENT	[Diagonal line pattern]
PROPOSED WELL BOX	[Grid pattern]
SOILS BOUNDARY	--- MaB --- GmB ---
C/L STREAM & STREAM BANK	==== SBB ---- SBB
75' STREAM BANK BUFFER	----- SBB ----- SBB
OVERHEAD ELECTRIC	--- OH ---
EXISTING STREAM	~~~~~
NONTIDAL WETLAND LIMIT	--- W --- W --- W ---
25' WETLAND BUFFER	--- WB --- WB ---
APPROX. 100 YR FLOODPLAIN LIMIT	--- FP --- FP ---
EX. TREELINE	~~~~~
EX. DRIVEWAY	-----
EX. FENCE	-----
PASSING PERC TEST (3/14/08)	⊙ 10
FAILED PERC TEST (3/14/08)	⊙ 11
FAILED PERC TEST (ROCK) (3/14/08)	⊙ 100
PASSING PERC TEST (4/25/08)	⊙ 101
FAILED PERC TEST (4/25/08)	⊙ 102
EX. WELL	⊙
OVERHEAD ELECTRIC	OU
UNDERGROUND ELECTRIC	U
POWER POLE	⊙
PROP. PRIMARY WELL	⊙ P
PROP. ALTERNATE WELL	⊙ A
EX. 24" CMP CULVERT WITH STONE END WALLS & RAILS (TO BE UPGRADED TO CURRENT STANDARDS)	---
AREA TO BE DEDICATED TO HOWARD COUNTY FOR PURPOSE OF PUBLIC ROAD R/W (25' WIDE)	---



**GENERAL NOTES**

- Existing Zoning: RC-DEO
- Deed Reference: L. 9940, F. 115
- Total area of Parcel 39: 525,725.64 sq. ft. / 12.069 Acres
- The lots shown comply with the minimum lot area and ownership width as required by the Maryland State Department of the Environment.
- Existing wells and septic areas have been shown within 100 feet of Parcel 39.
- The topography shown hereon is taken from the latest Howard County Aerial Topography. The area within the septic easements has been field verified.
- The property boundary shown hereon is based on a field run boundary survey by LDE, Inc. in July, 2007.
- All wells to be drilled prior to final plat approval. 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 record plat.
- The purpose of this percolation plot is to create two (2) new residential lots each consisting of approximately 1.0 acre in size.
- The existing septic system and well for the existing dwelling shall remain.
- Pres. Parcel "A" has an existing house and portion of existing driveway to remain.
- Soils information shown hereon was taken from the latest Howard County Soil Survey.
- Any changes to a private sewage easement shall require a revised percolation certification plan.
- Lot 1 has a (5) bedroom maximum size. Lot 2 has a (4) bedroom maximum size.
- A Waiver Petition from the Department of Planning & Zoning will be required for having the Stream Bank Buffer and 25' Wetland Buffer on Lot 1.
- A low pressure dose system will be required for any septic system with unequal length trenches.

**Perc Certification**  
I certify that the information shown hereon is based on field work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief.

D. Wayne Weller, Professional Land Surveyor  
MD Reg. No. 10585

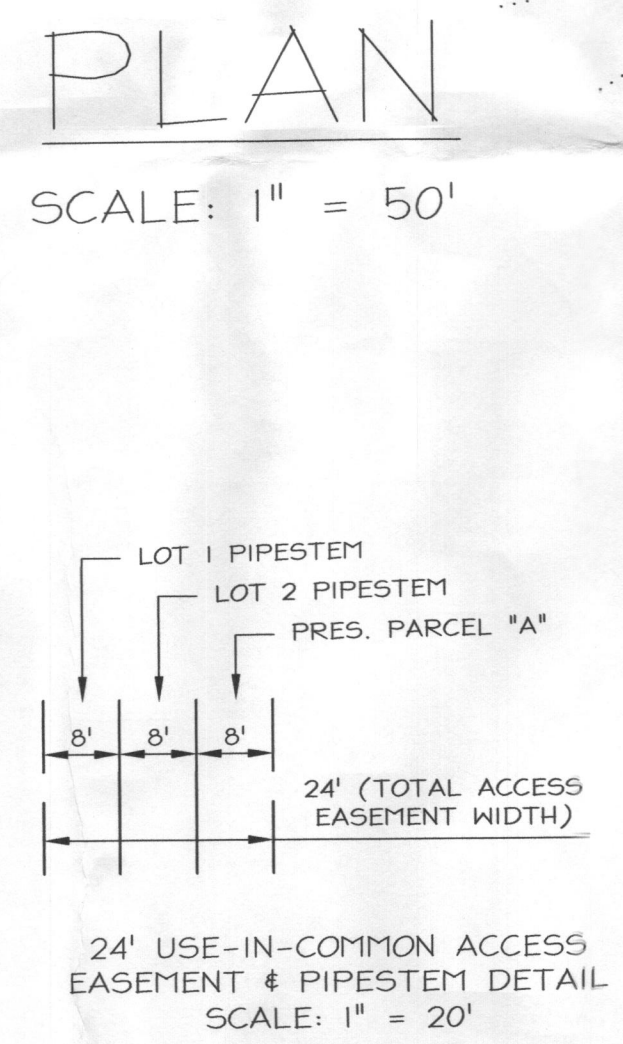
Approved: For private water and private sewerage systems  
Howard County Health Department

B. Nyman for Peter Brilensen 11/24/2008  
Howard County Health Officer Date 1/9/09

This area designates a private sewage easement of at least 10,000 square feet as required by the Maryland Department of the Environment for individual sewage disposal. Improvements of any nature in this area are restricted. This easement 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 revised sewage easement shall not be necessary.

**SOILS LEGEND**

HYDROLOGIC SOIL GROUP	SOIL SYMBOL	DESCRIPTION	REMARKS
C	Co	Codorus and Halboro silt loams 0% - 3% slopes	No Test Soil Type
B	MaD	Manor loam, 15% - 25% slopes	
B	MaB	Manor loam, 3% - 8% slopes	
B	MaC	Manor loam, 8% - 15% slopes	
C	GmB	Glenville silt loam, 3% - 8% slopes	
C	GoB	Glenville-Codorus silt loams 0% - 8% slopes	



**LDE Inc.**  
Engineers, Surveyors, Planners  
9250 Ramsey Road, Suite 106 Columbia, Maryland - 21045  
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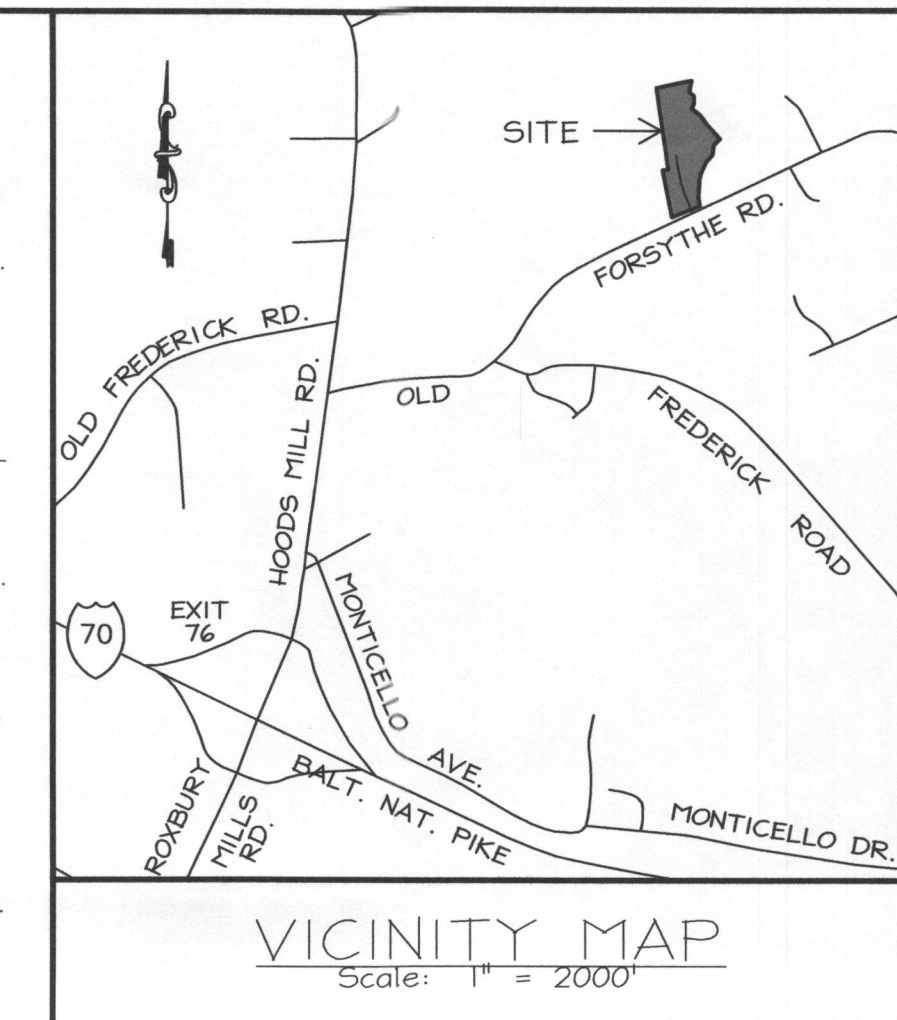
Percolation Certification Plan

DESIGNED: S.D.H.  
DRAWN: M.D.L.  
CHECKED: B.D.B.  
DATE: 10/2008

HUDSON PROPERTY  
Lots 1, 2, & Buildable Preservation Parcel "A"  
Tax Map 8, Grid 6, Parcel 39  
4th Election District  
Howard County, Maryland

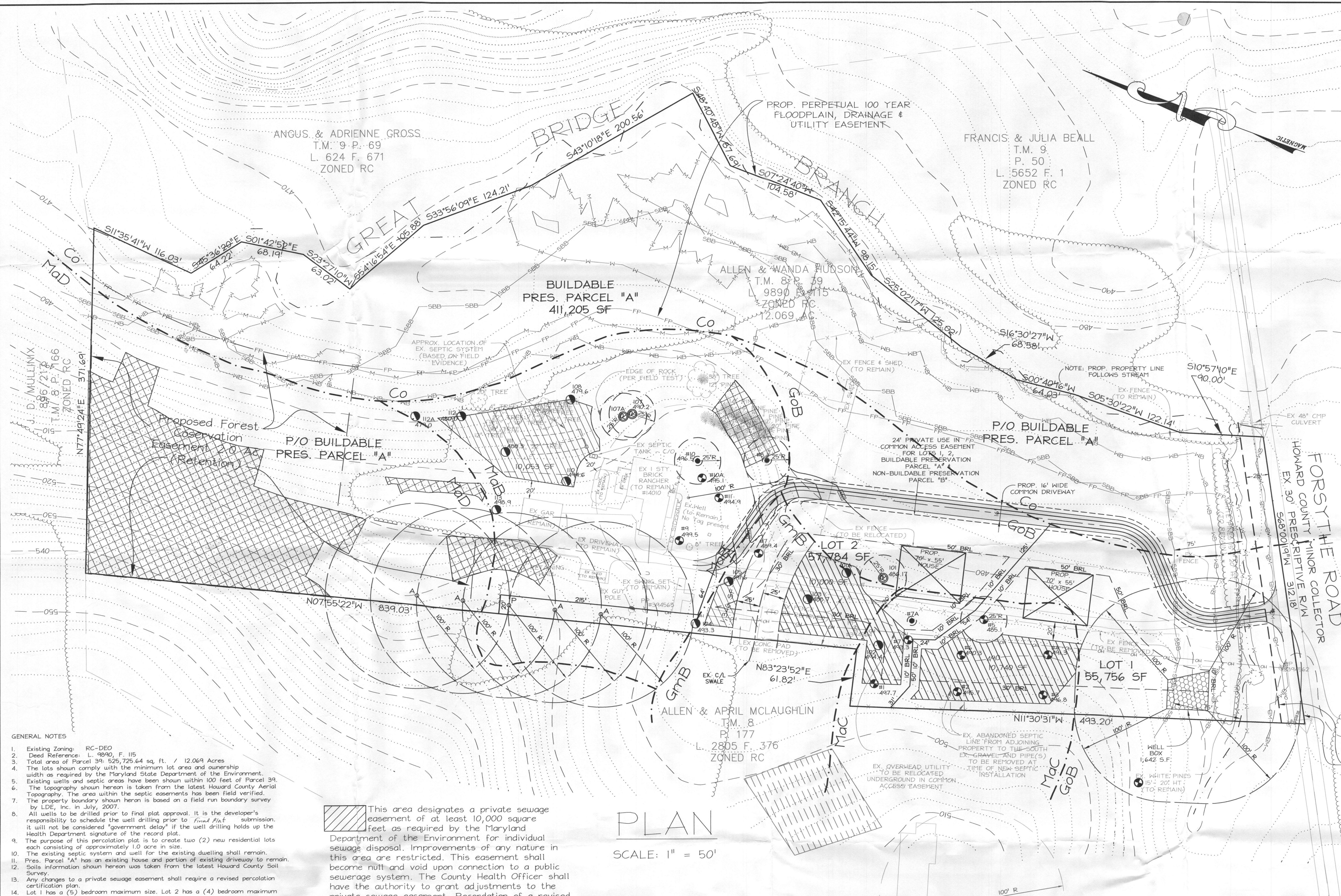
SCALE: AS SHOWN  
DRAWING: 1 of 1  
JOB NO.: 07-013  
FILE NO.:

PREVIOUS SUBMITTALS:  
OWNER/DEVELOPER: Allen and Wanda Hudson  
14010 Forsthe Road  
Sykesville, Maryland  
Phone: 443-250-1663



**LEGEND:**

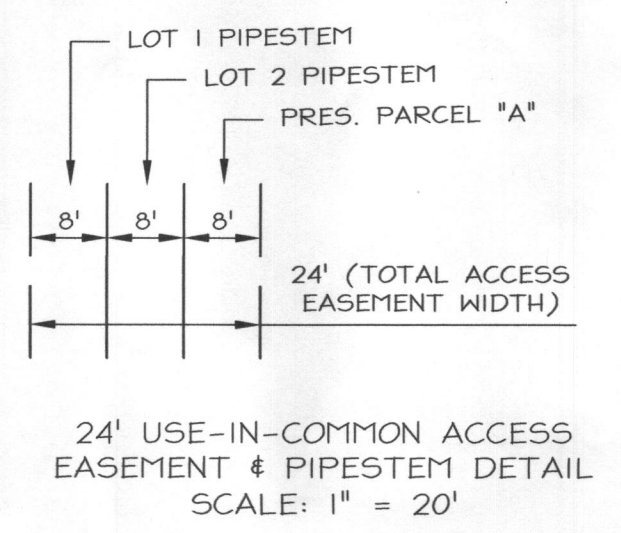
- EX. 2' CONTOUR
- EX. 10' CONTOUR
- PROP. 2' CONTOUR
- PROP. 10' CONTOUR
- STEEP SLOPES (25% & ABOVE)
- PROPOSED SEPTIC EASEMENT
- EX. OFFSITE SEPTIC EASEMENT
- PROPOSED WELL BOX
- SOILS BOUNDARY
- C/L STREAM & STREAM BANK
- 75' STREAM BANK BUFFER
- OVERHEAD ELECTRIC
- EXISTING STREAM
- NONTIDAL WETLAND LIMIT
- 25' WETLAND BUFFER
- APPROX. 100 YR FLOODPLAIN LIMIT
- EX. TREELINE
- EX. DRIVEWAY
- EX. FENCE
- PASSING PERC TEST (3/14/08)
- FAILED PERC TEST (3/14/08)
- FAILED PERC TEST (ROCK) (3/14/08)
- PASSING PERC TEST (4/25/08)
- FAILED PERC TEST (4/25/08)
- FAILED PERC TEST (ROCK) (4/25/08)
- EX. WELL
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- POWER POLE
- PROP. PRIMARY WELL
- PROP. ALTERNATE WELL
- EX. 24" CMP CULVERT WITH STONE END WALLS & RAILS (TO BE UPGRADED TO CURRENT STANDARDS)
- AREA TO BE DEDICATED TO HOWARD COUNTY FOR PURPOSE OF PUBLIC ROAD R/W (25' WIDE)



- GENERAL NOTES**
- Existing Zoning: RC-DEO
  - Deed Reference: L. 9840, F. 115
  - Total area of Parcel 39: 525,725.64 sq. ft. / 12.069 Acres
  - The lots shown comply with the minimum lot area and ownership width as required by the Maryland State Department of the Environment.
  - Existing wells and septic areas have been shown within 100 feet of Parcel 39.
  - The topography shown hereon is taken from the latest Howard County Aerial Topography. The area within the septic easements has been field verified.
  - The property boundary shown hereon is based on a field run boundary survey by LDE, Inc. in July, 2007.
  - All wells to be drilled prior to final plat approval. 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 record plat.
  - The purpose of this percolation plan is to create two (2) new residential lots each consisting of approximately 1.0 acre in size.
  - The existing septic system and well for the existing dwelling shall remain.
  - Pres. Parcel "A" has an existing house and portion of existing driveway to remain.
  - Soils information shown hereon was taken from the latest Howard County Soil Survey.
  - Any changes to a private sewage easement shall require a revised percolation certification plan.
  - Lot 1 has a (5) bedroom maximum size. Lot 2 has a (4) bedroom maximum size.
  - A Waiver Petition from the Department of Planning & Zoning will be required for having the Stream Bank Buffer and 25' Wetland Buffer on Lot 1.
  - A low pressure dose system will be required for any septic system with unequal length trenches.

This area designates a private sewage easement of at least 10,000 square feet as required by the Maryland Department of the Environment for individual sewage disposal. Improvements of any nature in this area are restricted. This easement 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 revised sewage easement shall not be necessary.

**PLAN**  
SCALE: 1" = 50'



SOILS LEGEND			
HYDROLOGIC SOIL GROUP	SOIL SYMBOL	DESCRIPTION	REMARKS
C	Co	Codorus and Hatboro silt loams 0% - 3% slopes	No Test Soil Type
B	MaD	Manor loam, 15% - 25% slopes	
B	MaB	Manor loam, 3% - 8% slopes	
B	MaC	Manor loam, 8% - 15% slopes	
C	GmB	Glenville silt loam, 3% - 8% slopes	
C	GoB	Glenville-Codorus silt loams 0% - 8% slopes	

**Percolation Certification**  
I certify that the information shown hereon is based on field work performed by me or under my direct supervision, and is correct to the best of my knowledge and belief.

*D. Wayne Keller*  
D. Wayne Keller, Professional Land Surveyor  
MD Reg. No. 10585

Approved: For private water and private sewerage systems  
Howard County Health Department

*Peter Beilenson* 11/24/2008  
Howard County Health Officer

**LDE Inc.**  
Engineers, Surveyors, Planners  
9250 Ramsey Road, Suite 106 Columbia, Maryland - 21045  
(410)715-1070 - (301)596-3424 - FAX(410)715-9540

DESIGNED S.D.H.	Percolation Certification Plan <b>HUDSON PROPERTY</b> Lots 1, 2, & Buildable Preservation Parcel "A" Tax Map 8, Grid 6, Parcel 39 4th Election District Howard County, Maryland	SCALE AS SHOWN	
DRAWN M.D.L.		DRAWING 1 of 1	
CHECKED B.D.B.		JOB NO. 07-013	
DATE 10/2008		PREVIOUS SUBMITTALS: OWNER/DEVELOPER: Allen and Wanda Hudson 1400 Forstthe Road Sykesville, Maryland Phone: 443-250-1663	FILE NO.