



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_

AP 537236

AGENCY REVIEW: \_\_\_\_\_

DATE 6-11-12

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 3 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) Kelli & Robert Nitsch

DAYTIME PHONE \_\_\_\_\_ CELL 443 904 7411 FAX \_\_\_\_\_

MAILING ADDRESS 15961 Old Frederick Rd., Lisbon, MD 21765  
STREET CITY/TOWN STATE ZIP

APPLICANT Tara Poanette Poanette Construction Mgmt

DAYTIME PHONE cell CELL 443 336 7690 FAX 410 489 0813

MAILING ADDRESS 1300 st. Michaels Rd., Mt. Airy, MD 21771  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION SUBDIVISION/PROPERTY NAME Liber 9517, folio 172 & 175 LOT NO. \_\_\_\_\_

PROPERTY ADDRESS 15961 Old Frederick Rd. Lisbon, MD 21765  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) \_\_\_\_\_ GRID \_\_\_\_\_ PARCEL(S) \_\_\_\_\_ PROPOSED LOT SIZE 2.77 AC

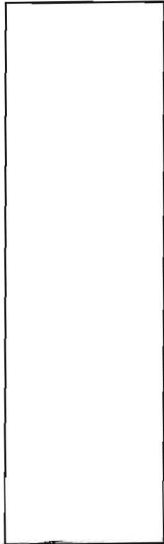
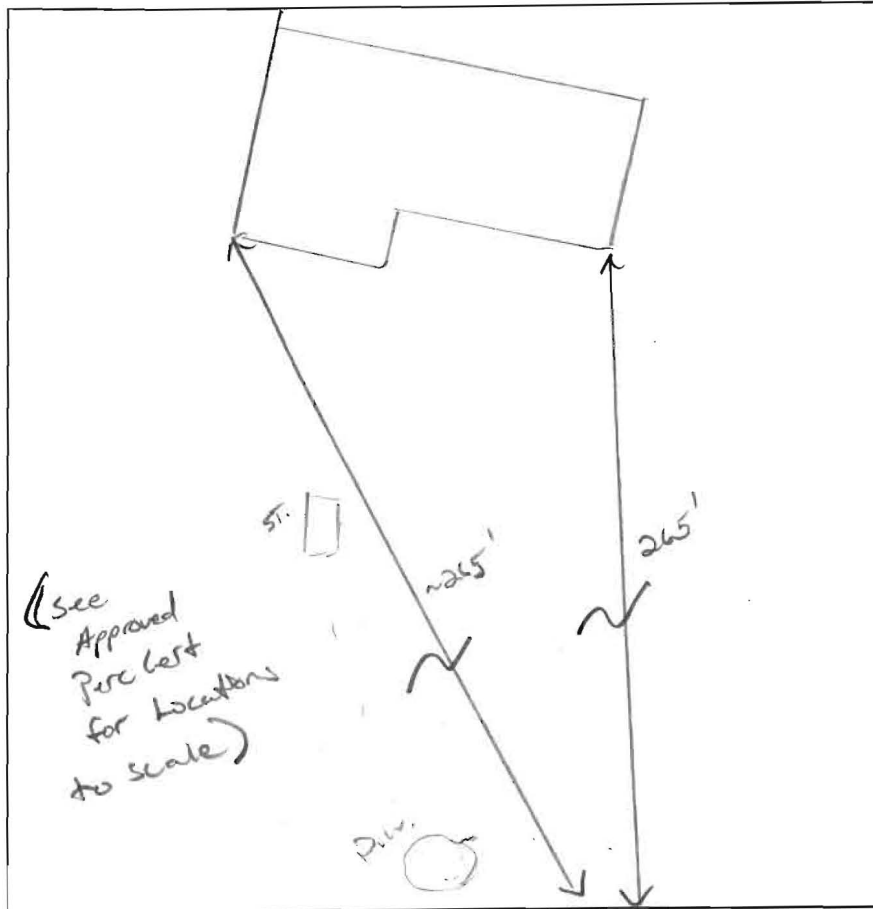
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. 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  
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH



A/P \_\_\_\_\_



#8

8" DKBR on SIBK, may be

BT CL, friable, CW

10-15% rd moist, ng Deposits

WK S&K 15% exp. partly to platy

4-5" Br/Y/R FSL, coarse rd fragments ~10% to 30%

very friable, wk flaking

V FSL, highly micaceous

small pebbles @ 7'

14'

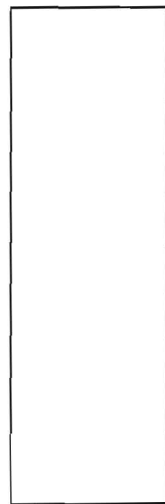
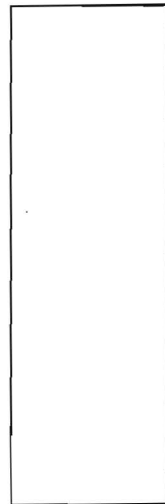
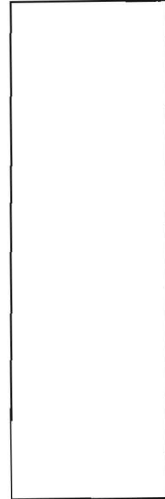
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
7/30/12	8	visual	OK				(P)

REMARKS mixture of wk micaceous spherule all throughout.

SANITARIAN K. Wolf BACKHOE Poguette OTHERS \_\_\_\_\_

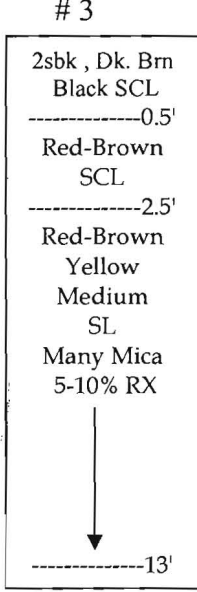
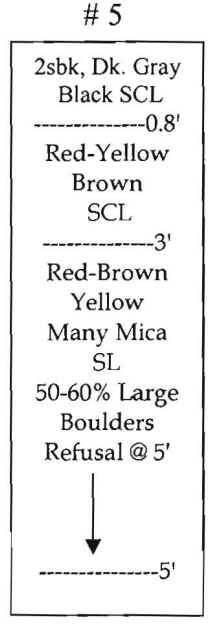
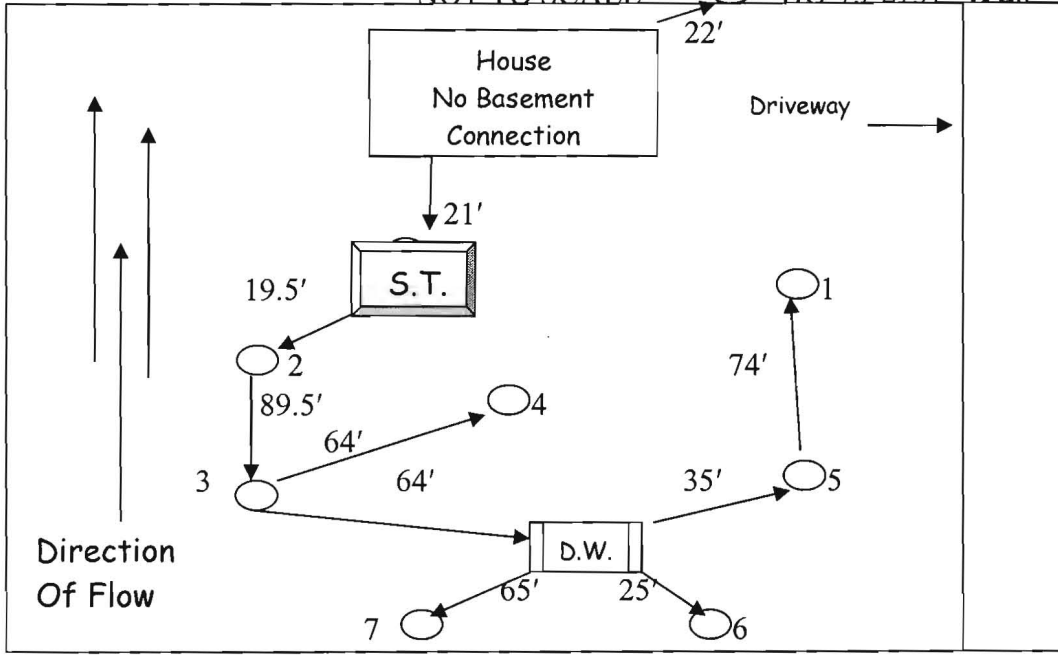
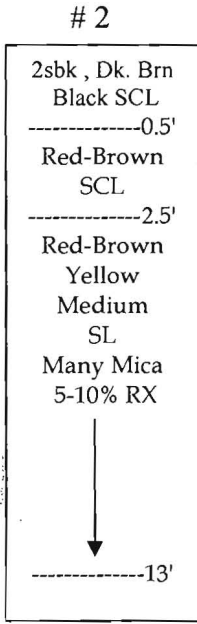
TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE S/W \_\_\_\_\_

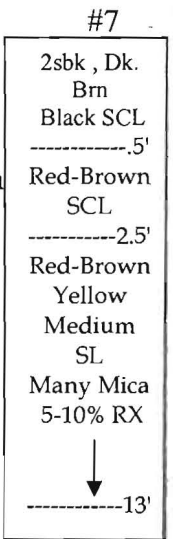
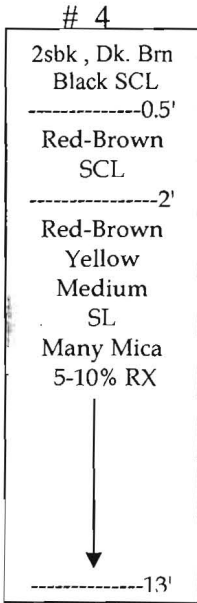


NOT TO SCALE

HO-73-2737 -Well



Date	Test	Depth	Start	Break 1" Drop	Break 2" Drop	Time of 2 <sup>nd</sup> Inch	P/F/H
06-18-12	1	<b>Did Not Dig</b>			<b>Engineers</b>	<b>Request</b>	
06-18-12	2	3.5 /13	11:00	11:10	11:23	13 min.	Pass
06-18-12	3	3/13	11:23	11:33	11:44	11 min.	Pass
06-18-12	4	3.5/13	11:37	11:43	11:53	10 min.	Pass
06-18-12	5	Refusal @ 5'					Fail
06-18-12	6	4/16	12:26	12:30	12:37	7 min.	Pass #
06-18-12	7	13	Visual	Pass	Inlet @3	Effective area @3	Pass #



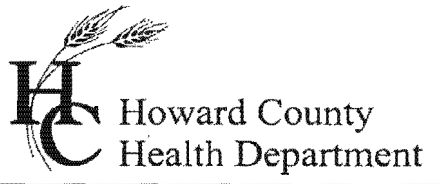
Remarks: \_\_ Developed Property. Front yard of an existing house is the area where the septic system is located. There is no evidence of system failure. The dry well had a terracotta pipe and the record show a 12 x 12 dry well, with the inlet at 4 feet. The homeowner will have to upgrade to a 2000 gallon tank and 1500gallon pump tank.

Percolation holes must be surveyed on Percolation Certification Plan.

Sanitarian: DBernard \_\_ Backhoe \_\_\_\_\_ Others\_B Burton

Test Holes Used in \_6\_ in SDA \_\_ Avg. Perc Time \_10 min. \_\_ SQ.FT/BR \_\_

Trench Width \_\_ Inlet Depth \_4\_\_ Max Bot.Depth \_\_ Effective S/W \_\_



7178 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](http://www.hchealth.org)

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

Date: June 21, 2012

To: LDE Engineering, Inc.  
C/o Mr. B Burton  
Via E-mail: [BBurton@LDEinc.Net](mailto:BBurton@LDEinc.Net)

RE: **Percolation Testing Report**  
**15961 Old Frederick Road**  
**Lisbon, Maryland 21765**


Mr. Burton,

Percolation testing was conducted on the referenced property on June 18, 2012. The purpose for conducting these percolation tests was to delineate a septic reserve area for an anticipated establishment of a sewage disposal area for the existing lot. The revised area will support an addition for building permit number B12001674.

Soil conditions observed were **satisfactory** for onsite wastewater treatment and disposal. A total of six (5) test holes evaluated were found to be satisfactory with moderate percolation rates. An additional test hole was dug and found to be unsatisfactory and will not be included in the design of your septic area. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall are indicated, and may be confirmed at the time of installation. Field data collected is shown on the Percolation Test Worksheets enclosed with this letter.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Areas that may be included in a septic reserve are represented by test locations having satisfactory soil conditions. The area of the septic reserve must be at least 10,000 square feet, though Howard County Code [3.805.A.2.X] requires that the area be large enough to accommodate an initial drain field and two repair drain fields for the planned residence.

The next step in this process is to submit a Percolation Certification Plan to confirm the design of the septic reserve area. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at the above address or by telephone at (410) 313-2775.

Respectfully,  
  
Dana Bernard, REHS/RS  
Environmental Sanitarian  
Well and Septic Program

Enclosures (2)  
CC: File

Homeowners- Mr. and Mrs. Robert and Kelli Nitsch

**SOILS LEGEND:**

- GgA - Glenelg Loam, 0 to 3 percent slopes
- GgB - Glenelg Loam, 3 to 8 percent slopes
- GgC - Glenelg Loam, 8 to 15 percent slopes
- GmB - Glenville Silt Loam, 3 to 8 percent slopes

**LEGEND:**

- ROCK Perc Test Failed (6/18/12)
- Perc Test Passed (6/18/12) and (7/30/12)
- Existing Well
- Proposed Alternate Well
- Proposed Sewage Disposal Easement
- Existing Sewage Disposal Easement
- Soil Delineation

PERC NO.	DATE OF TEST	ELEVATION	RESULT
1	6/18/12	645.5	NOT DUG
2	6/18/12	643.3	PASS
3	6/18/12	637.6	PASS
4	6/18/12	641.8	PASS
5	6/18/12	643.8	FAIL/ROCK
6	6/18/12	642.0	PASS
7	6/18/12	633.7	PASS

Approved for Private Water and Private Sewerage  
Howard County Health Department

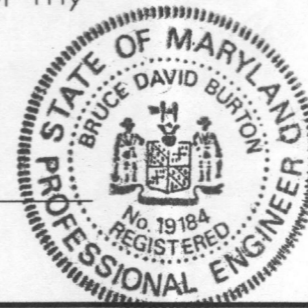
*Bruce D. Burton*  
Howard County Health Officer *sw*  
B. Burton for Peter B. Benson 8/7/12

**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.

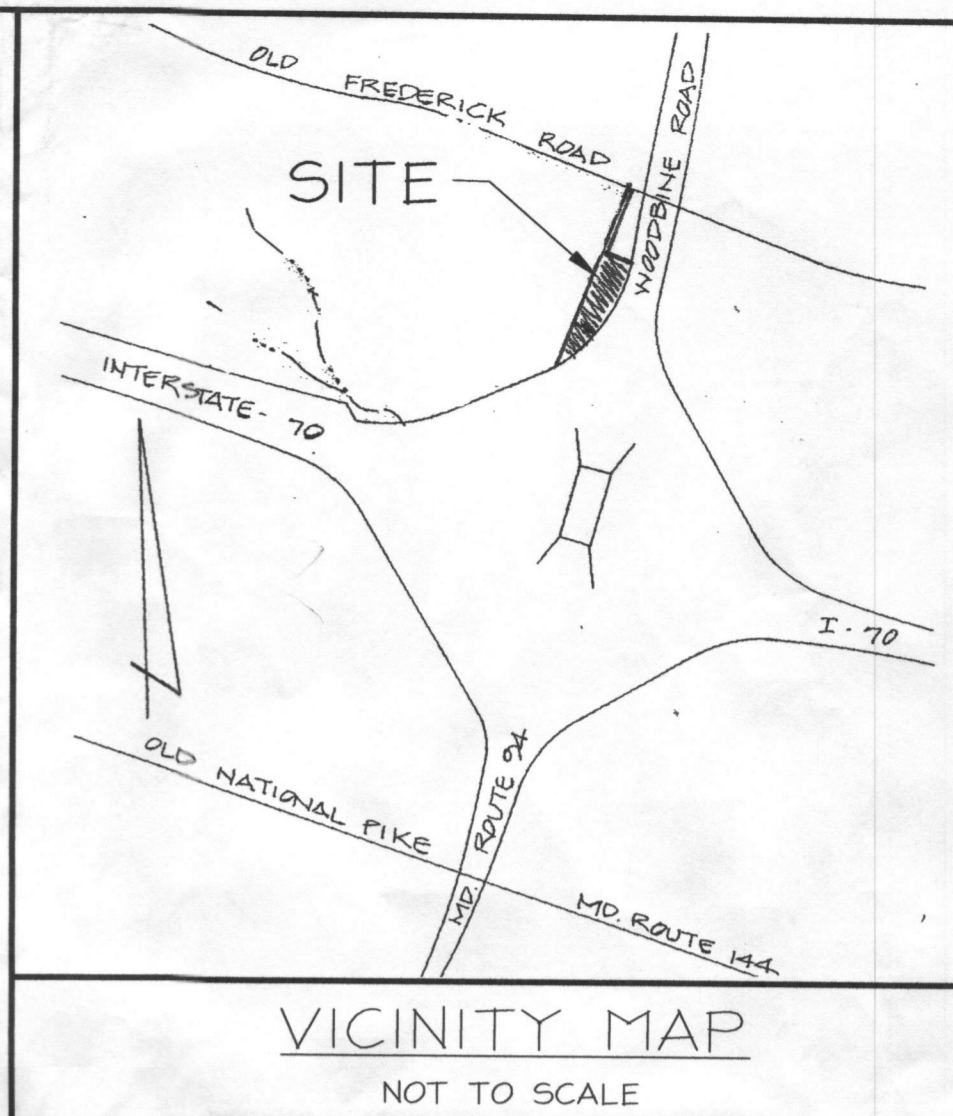
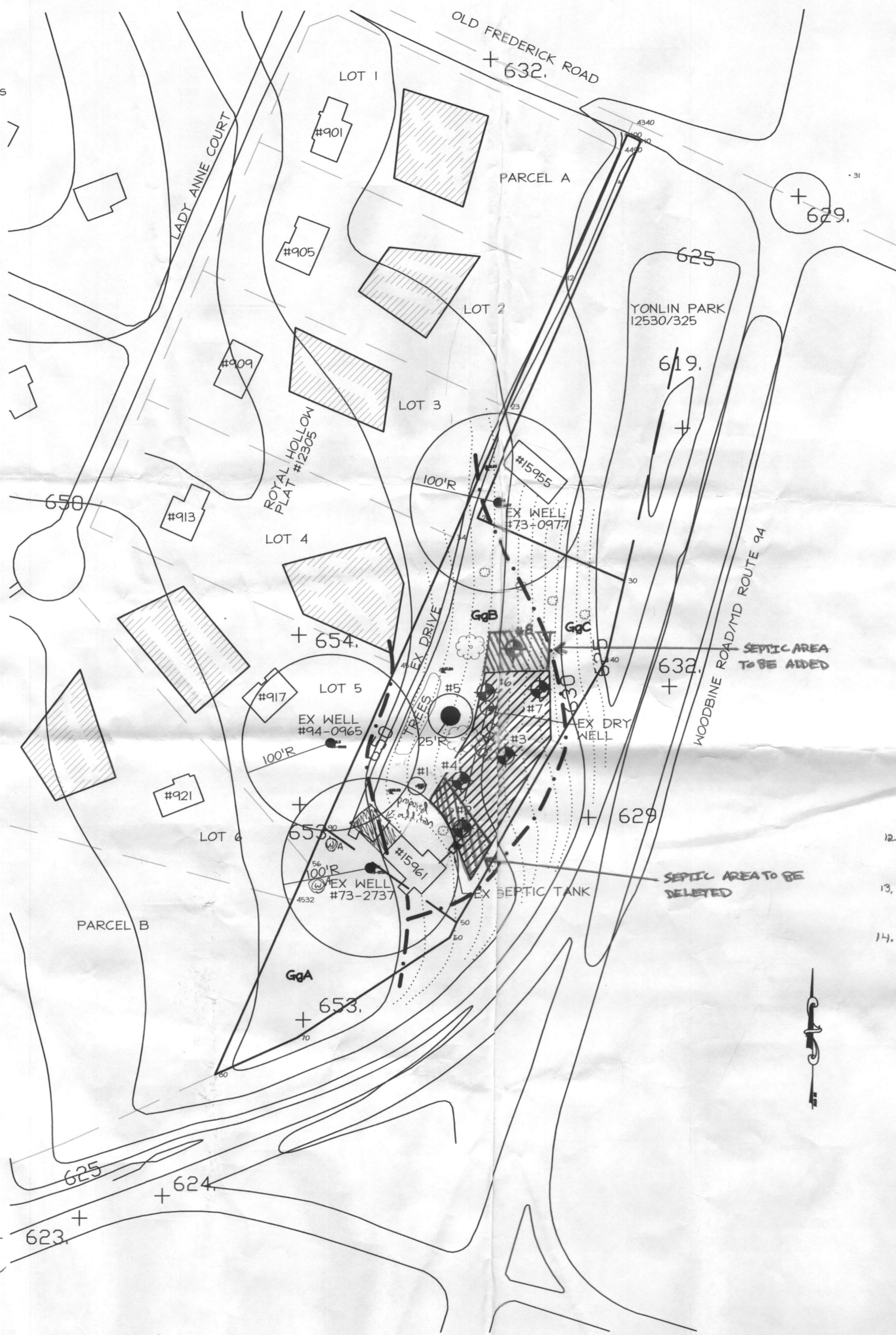
*Bruce D. Burton*  
Bruce D. Burton, Professional Engineer  
MD Reg. NO. 19184

Date 7/10/12



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: 19184, EXPIRATION DATE: 6/30/13."

SIGNED *Bruce D. Burton* DATE 7/10/12  
BRUCE D. BURTON



**GENERAL NOTES**

1. Existing Zoning: RC-DEO Rural Cluster
2. Deed Reference: 957/172
3. Total Area of Lots: 2.7723 Acres +/-
4. The topography and boundary shown on this plan is taken from a plan prepared by VanMar Associates, Inc. dated 6/93. Topography shown is at two foot contour intervals and has been field verified.
5. Soils data shown based on the United States Department of Agriculture Natural Resources Conservation Service web soil survey.
6. All wells shall be located a minimum of 15' from the road R/W & 30' from houses/structures.
7. The lots shown hereon comply with the minimum lot area and ownership width as required by the Maryland State Department of the Environment.
8. This area designates a private sewage area of at least 10,000 square feet as required by the Maryland State Department of the Environment for individual sewage disposal. Improvements of any nature in this area are restricted until public sewerage is available. This area 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 area. Recordation of a modified sewage area shall not be necessary.
9. Existing wells, septic systems, and sewage disposal areas within 100' of the property and those wells within 200' down gradient of existing or proposed septic systems or sewage disposal areas have been shown.
10. All wells have been drilled.
11. Any changes to a private sewage area shall require a revised perc certification plan.
12. = SEPTIC AREA DELETED
13. = SEPTIC AREA ADDED
14. PERC TEST # 8 DUG 7/30/12 TO EXTEND SEPTIC RESERVE AREA.

REVISIONS		
No.	Date	Description
	7/30/12	REVISED SRA

**LDE Inc.**  
Engineers • Surveyors • Planners  
Historic Carriage House • 7520 Main Street • Suite 203 • Sykesville, Maryland • 21784  
(410)795-6391 • (410)795-6392 • FAX(410)795-9540 • www.Landsurveyormd.com

DESIGNED BDB	PERCOLATION CERTIFICATION PLAT  Property of <b>Robert M. Nitsch &amp; Kelli Nitsch</b> #15961 Old Frederick Road  Tax Map 7 Grid 6 Parcel 430 4th Election District - Howard County, Maryland Scale: 1" = 100' Date: June, 2012	SCALE 1" = 100'
DRAWN LDE		DRAWING 1 of 1
CHECKED BDB		JOB NO. 12-015
DATE 6/2012		OWNER/DEVELOPER: Robert M. Nitsch, Jr. & Kelli Nitsch 15961 Old Frederick Rd. Lisbon, MD 21765

