

Bureau of Environmental Health
 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

Maura J. Rossman, M.D., Acting Health Officer

APPLICATION FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Paul Beares LOT # 13
 PROPERTY ADDRESS 13738 Barberrry Way Sykesville, MD. 21784
STREET TOWN ZIP
 TAX ACCOUNT # 1404338898 TAX MAP 9 GRID 7 PARCEL 304 ZONING DESIGNATION RC-DEO

PROPERTY OWNER(S)

Paul & Susan Beares, David & Abby Beares
 DAYTIME PHONE 443-851-6881 CELL 410-960-6069 EMAIL spbeares@verizon.net
 MAILING ADDRESS 13738 Barberrry Way Sykesville, MD 21784
STREET CITY, STATE ZIP

APPLICANT

Paul Beares RELATIONSHIP TO OWNER: same
 DAYTIME PHONE 443-851-6881 CELL 410-960-6069 EMAIL spbeares@verizon.net
 MAILING ADDRESS 13738 Barberrry Way Sykesville, MD 21784
STREET CITY, STATE ZIP

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

- BUILDING:
 RESIDENTIAL WITH 5 EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
 COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)
- PROPERTY:
 SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: _____
 CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
 REPAIR OR REPLACE FAILING OSDS
 UPGRADE EXISTING OSDS
- IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?
 YES
 NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
- THE APPLICATION FEE IS NON-REFUNDABLE
- THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE SITE PLAN IN ORDER TO BE PROCESSED
- THIS IS A PUBLIC DOCUMENT

I declare and affirm that to the best of my knowledge, the information contained herein is correct. I declare that I am the owner of the property or duly authorized to make this application on behalf of the owner. I agree to comply with all applicable state and county regulations.

By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

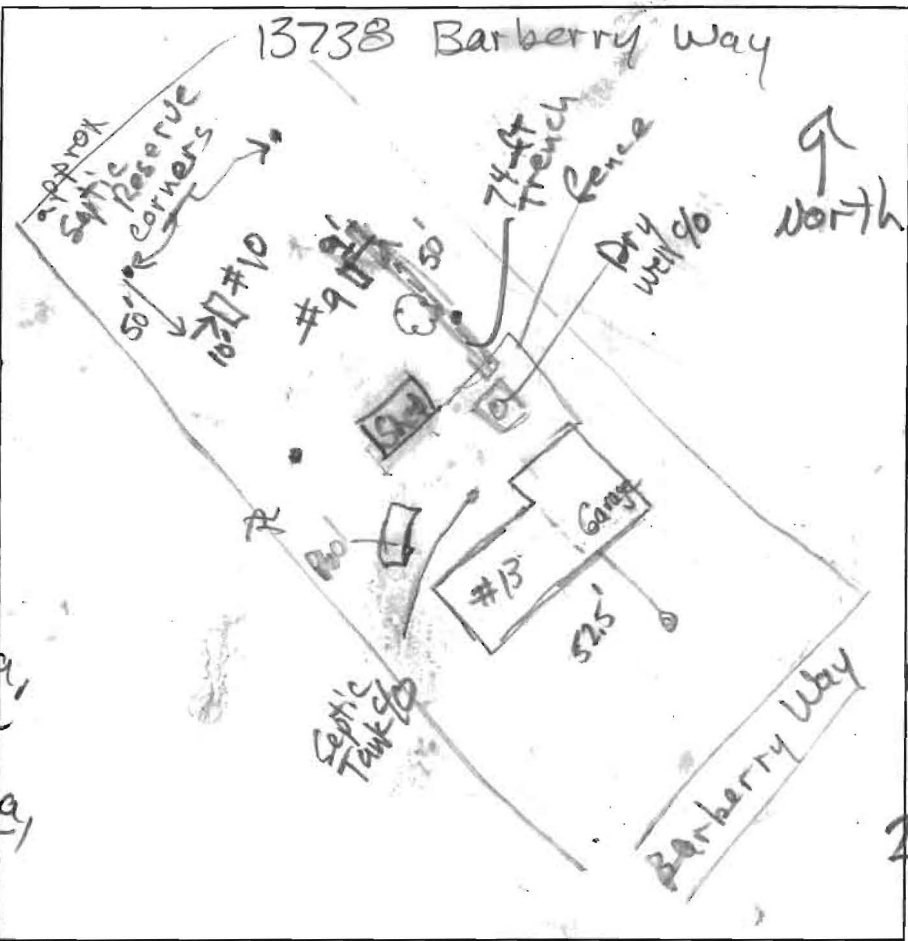
Paul Beares 1/17/13
 SIGNATURE OF APPLICANT DATE

AP

#9

brn L 0.8
 yel-brn cl, 2fsbk 1.7
 brn el 10% gravel 2fsbk 3.4
 brn L 1fsbk 4
 yel-red sl, gm 7
 yel-red sl, mica 8.2
 pale yel-brn fs, mica 11.5
 pale yel-brn ls 14

grey-brn ls com, mica 15.7
 grey-brn ls com, mica 17

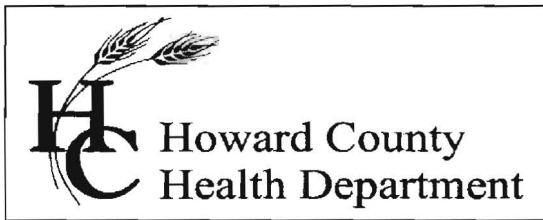


#10

grey-brn L 0.8
 yel-brn cl 2fsbk 2.3
 brn grcl 2msbk 3.7
 brn gr L 4.5
 gm, mica
 brn gr sl com, mica 7
 yel-brn yel gr sl 10.5
 pale yel brn ls few gravel few mica 12.5
 grey-brn gr ls, mica Mn coats

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2/14/13	9	17'	Visual	OK	4' to 13'	1/2 gal/hr	P
	9	17'	Trench Passes	Soil Buffer	Free		P
				of fractured rock and water \geq 5 feet below Trench Bottom			
2/14/13	10	14'	Visual	OK	4.5' to 10'	1/2 gal/hr	P
* Solution in dry well approx. 4'-4.5' below surface; appears murky.							

REMARKS Record soil profiles for septic reserve. 14'
 SANITARIAN RB BACKHOE Ricky (Foyles) OTHERS Paul Beares, owner
 TEST HOLES USED IN SDA 1 thru 8 and 9 & 10 AVG. PERC TIME Joe Gregory 125 SQ. FT/BR
 TRENCH WIDTH 2' INLET DEPTH 3' to 4' MAX. BOT DEPTH 8' EFFECTIVE S/W begins at 4' to 4.5'



Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

Main: 410-313-6300 | Fax: 410-313-6303

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

February 19, 2013

To: Paul Beares, owner
13738 Barberray Way, Sykesville, MD 21784

RE: Soil Observation Report, 13738 Barberray Way; A544511

Observation pits for soil analyses were dug on the subject property on February 14, 2013. Two observation pits were dug. The purposes for these observations were (a) to describe the characteristics of the soil profile for the septic reserve area, and (b) to determine that there is a 4-foot soil buffer free of ground water or rock content greater than 50 % beneath the existing seepage pit and trench.

Soil conditions observed at the two locations were satisfactory for onsite wastewater treatment and disposal. Location #9 was dug to 17 feet depth near the end of the 74-foot trench. The depth of satisfactory soil conditions at location #9 shows that the trench (12.5 feet deep) has a 4-foot soil buffer. Location #10 was dug to 14 feet depth. The soil profile is similar to location #9 which indicates soil characteristics are consistent across the existing septic reserve area. Field data collected are shown on Percolation Test Worksheets enclosed with this letter. These data may be utilized to design trench distribution systems when the existing trench fails.

The existing trench (as constructed) has absorption area of 740 square-feet. At a loading rate of 1.2 gallons per day per square-foot, the trench may support the estimated discharge from a 6-bedroom residence (which requires 750 square-feet of absorption area at 1.2 gallons per day per square-foot).

The existing seepage pit had 450 square feet of absorption area when constructed. The solution in the seepage pit is murky and black, and the level appears to be at the outlet elevation. Due to these conditions there is no credit given for absorption area in the seepage pit.

The existing septic tank, 1250 gallon capacity, was installed to meet Code of Maryland requirement for a 4-bedroom residence. As the planned addition includes a bedroom, the septic tank capacity must be increased. Therefore an upgrade is needed, and a Best Available Technology (BAT) unit of your choice is to be installed.

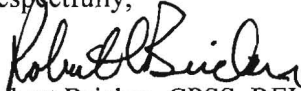
Prior to Health Department approval of the building permit application to increase the size of the residence, the following items must be completed:

1. A site plan for installation of the BAT unit must be submitted and approved by the Health Department. (A plan has been submitted and will be reviewed.)
2. After signature by owner and by the Health Department Approving Authority, an Operation and Maintenance Agreement for the BAT unit must be recorded at Howard County Land Records. The BAT installation permit may be released when the Health Department has a copy of the receipt from Land Records, indicating that the agreement had been submitted for recordation.

3. A BAT unit must be installed and connected to the existing 74-foot trench.
4. The existing septic tank and the existing dry well are to be pumped free of solution, the tops removed and the voids filled clean earth materials.

If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan or Site Plan, please contact me at the above address or by calling (410) 313-2691.

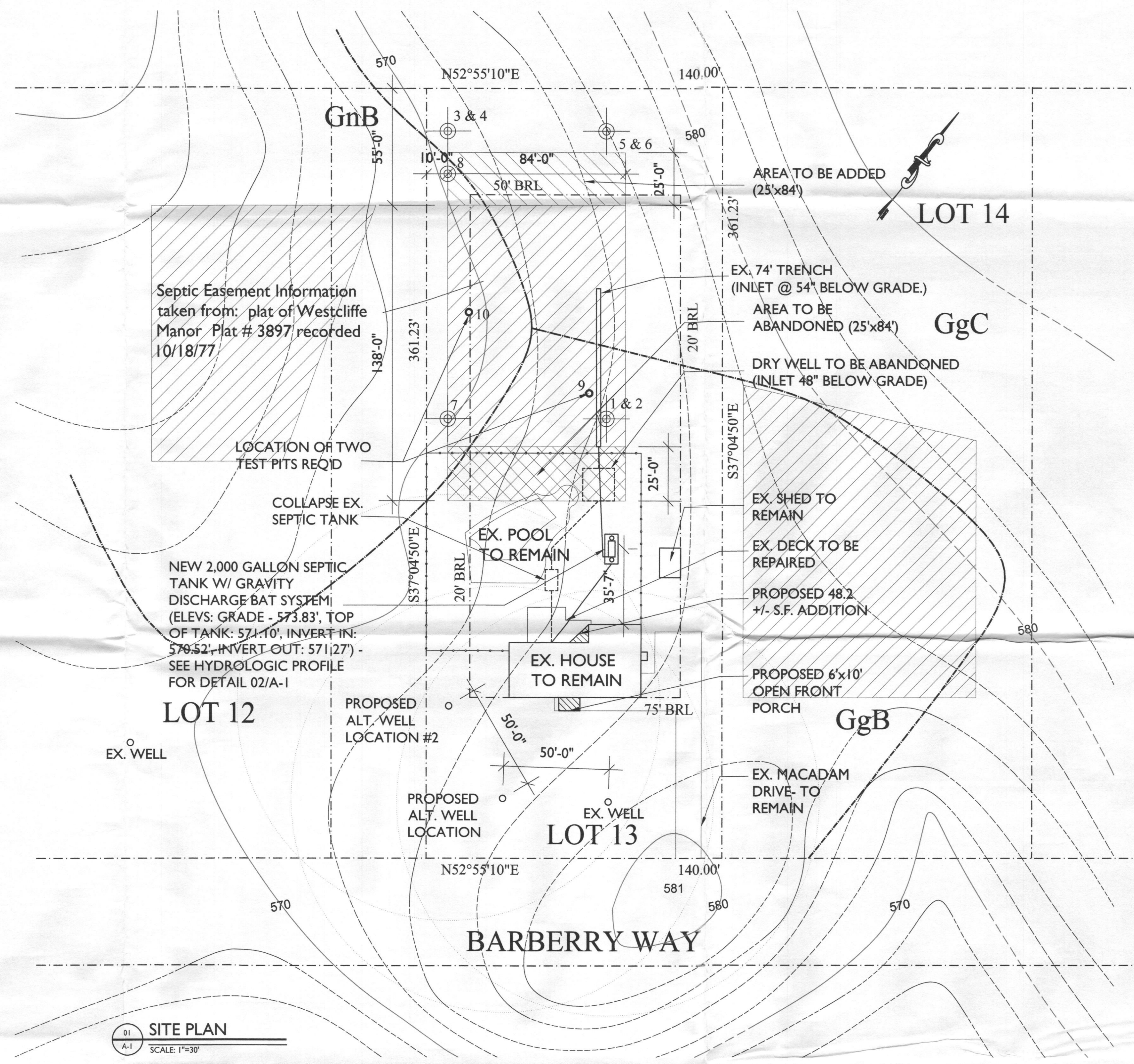
Respectfully,



Robert Bricker, CPSS, REHS/RS
Environmental Health Specialist
Well and Septic Program

Enclosures (2)

Copy: Karen Pitsley, AIA, CAPS; Transforming Architecture
Joseph Gregory, contractor
File



D1 SITE PLAN
SCALE: 1"=30'

Septic Easement Information taken from: plat of Westcliffe Manor Plat # 3897 recorded 10/18/77

NEW 2,000 GALLON SEPTIC TANK W/ GRAVITY DISCHARGE BAT SYSTEM (Elevs: GRADE - 573.83', TOP OF TANK: 571.10', INVERT IN: 570.52', INVERT OUT: 571.27') - SEE HYDROLOGIC PROFILE FOR DETAIL 02/A-1

AREA TO BE ADDED (25'x84')

EX. 74' TRENCH (INLET @ 54" BELOW GRADE.) AREA TO BE ABANDONED (25'x84')

DRY WELL TO BE ABANDONED (INLET 48" BELOW GRADE)

EX. SHED TO REMAIN

EX. DECK TO BE REPAIRED

PROPOSED 48.2 +/- S.F. ADDITION

PROPOSED 6'x10' OPEN FRONT PORCH

EX. MACADAM DRIVE TO REMAIN

LOCATION OF TWO TEST PITS REQ'D

COLLAPSE EX. SEPTIC TANK

EX. HOUSE TO REMAIN

EX. WELL LOT 13

PROPOSED ALT. WELL LOCATION #2

PROPOSED ALT. WELL LOCATION

BARBERRY WAY

This area designates a private sewage disposal area of at least 10,000 sq. ft. as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this area are restricted. This sewage disposal area shall become null and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to the private sewage easement. Recordation of a revised sewage easement shall not be necessary.

Any changes to a private sewage easement shall require a revised percolation certification plan.

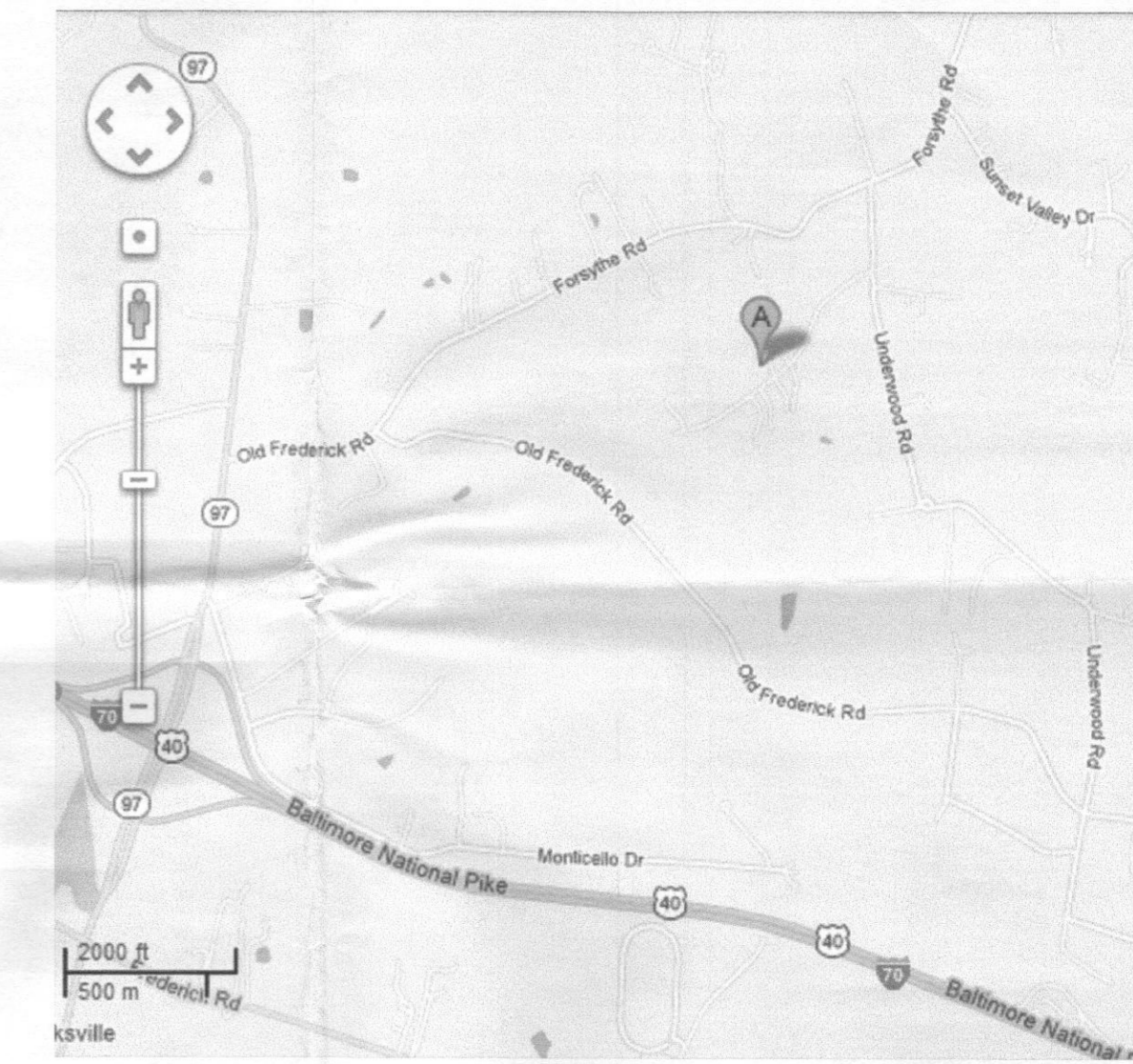
The topography of this plat is taken from Howard County GIS and is verified accurately represent the relative changes on the subject property.

All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic systems and wells have been shown.

NOTES

1. All existing wells on the subject property and within 100 feet of subject property boundaries are represented to the best of my knowledge and belief.
2. The existing well on the subject property has been field located and is accurately shown.
3. Topography on this plat is from HOWARD COUNTY CONTOURS (2004) and is verified to accurately represent the relative elevation changes on and near the subject property.
4. The lot shown hereon complies with the minimum ownership width and lot area as required by the Maryland Department of Environment.
5. Any changes to a private sewage easement shall require a revised percolation certification plan.

6. This area designates a private sewage easement of at least 10,000 sq. ft. as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this easement are restricted. This easement shall become null and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to the private sewage easement. Recordation of a revised sewage easement shall not be necessary.
7. The purpose for this Percolation Certification Plan is to adjust the existing sewage easement to accommodate EXISTING CONDITIONS ON THE SUBJECT PROPERTY.



OWNER: MR. & MRS. DAVID BEARES
13738 BARBERRY WAY
SYKESVILLE, MD 21784

PROPERTY KNOWN AS LOT 13
SUBDIVISION WESTCLIFFE MANOR
LIBER: 04739 FOLIO: 0633 PARCEL: 304
TAX Account ID: 1404338898
TAX MAP: 9 TAX MAP GRID: 7
ZONED: RC-DEO
ELECTION DISTRICT 04-04
HOWARD COUNTY, MD

- PERC TEST PIT LOCATION - 8/ 30/ 77
- PERC TEST PIT LOCATION - 02 /14 /13

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.

(SIGNATURE) *[Signature]* (DATE) 3/11/13

Approved for private water and private sewer systems. Howard County Health Department

[Signature] for Maureen Rooshman 3/22/2013 (SIGNATURE) (DATE) 1/16/13

Paul Beares 3/11/13 owner

TRANSFORMING ARCHITECTURE
7612 Browns Bridge Road
Highland, MD 20777
301-776-2666
301-776-2886 fax
1-877-828-7267
info@TransformingArchitecture.com
www.TransformingArchitecture.com

ARCHITECT 3/11/13
13662
KAREN LYNN PITTSLEY
STATE OF MARYLAND
STAMP

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 13662, EXPIRATION 10-22-2011.

NOTE: THESE DRAWINGS ARE THE PROPERTY OF TRANSFORMING ARCHITECTURE AND, AS SUCH, MAY NOT BE RE-USED OR REPRODUCED, EITHER WHOLLY OR IN PART, WITHOUT PRIOR WRITTEN CONSENT OF TRANSFORMING ARCHITECTURE.

PROJECT PHASE
PERMIT

PROJECT TITLE
THE BEARES RESIDENCE
13738 BARBERRY WAY
SYKESVILLE, MD 21784

REVISIONS		
SYMBOL	DATE	ISSUED FOR

PROJECT NUMBER 12-088
DATE 1/16/2013
SCALE AS NOTED

DRAWING TITLE
PERCOLATION CERTIFICATION PLAN

SHEET NUMBER
A-1

PC544511