

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 537341

AGENCY REVIEW: _____

DATE 6-28-12

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 UNKNOWN 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) CAWIN SANDS, FREEMAN SANDS, AUBREY AVERY, SANDRA SMITH, ESTATE OF TERRY PAW, EUGENE SANDS

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS 2020 MILLERS MILL RD COOKSVILLE MD 21723
STREET CITY/TOWN STATE ZIP

APPLICANT G. SCOTT SHANABERGER, SHANABERGER & LAKE

DAYTIME PHONE (410) 461-9563 CELL _____ FAX (410) 461-9893

MAILING ADDRESS 8126 TOWN & COUNTRY BLVD, SUITE 201, ELICOTT CITY, MD 21043
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME SANDS PROPERTY LOT NO. _____

PROPERTY ADDRESS 2020 MILLERS MILL RD COOKSVILLE, MD 21723
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 14 GRID 4 PARCEL(S) 18 PROPOSED LOT SIZE 1.0 AC

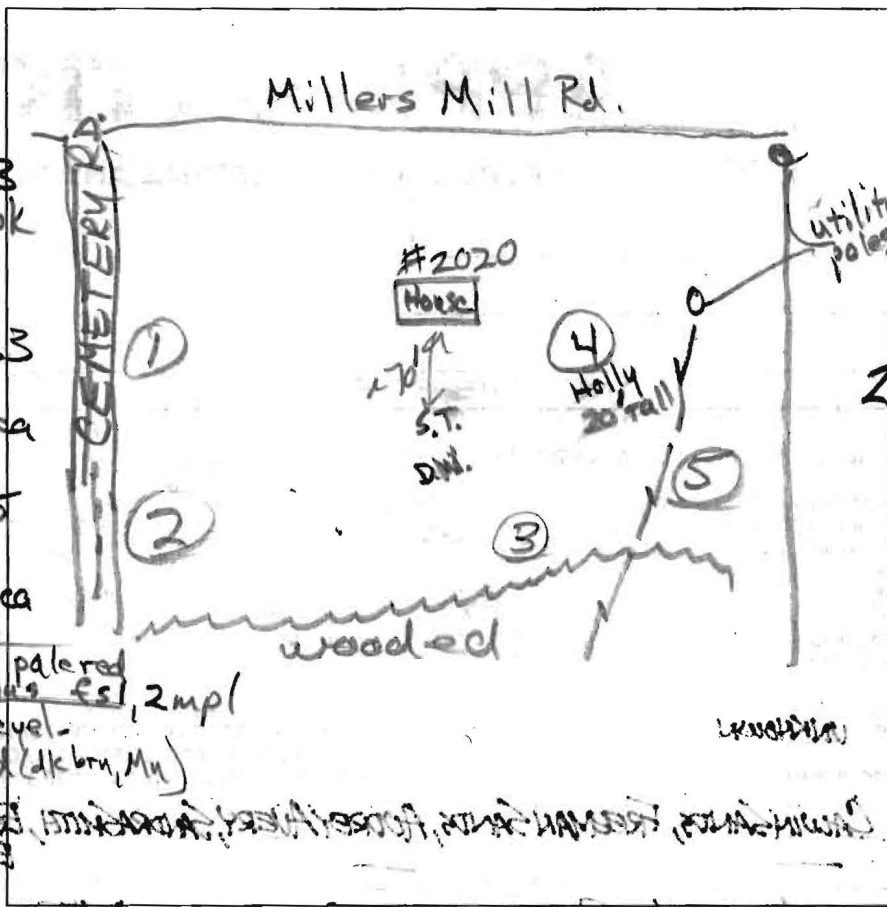
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A.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

TEST RESULTS WILL BE MAILED TO APPLICANT. [Signature]
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
1718 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

2

dk brn L
3fg & vlsbk
0.3
brn L, 2fsbk
yel-red L
1fsbk
variegated sil, many f. fine mica
yellow, brown & grey-brn
4.5
brn, yel-brn red, yel & sil. many v. fine mica
few stones



4

dk brn L
2fg & vlsbk
brn L, 2fsbk
yel-brn L
7msbk
(Ctd, pale-yel) fsl
at boundary (yel-red)
yel-red & yel-brn
1 fsl, Mn, grey
yel-brn Pfs

7.5
moist
13
1/2 grey brn & pale red
yellow striations fsl, 2mpl
red-yel, pale yel-
& grey c3d (dk brn, Mn)

DATE	TEST #	DEPTH	START	BREAK DROP	STOP DROP	TIME OF END INCH	P/F/H
7/31/12	3	3.7'	10:54	11:30		reshelf	
	3	5.9'	11:42	11:45	11:57		6 P
	2	4'	10:56	10:59	11:05		6 P
	1	4 1/2'	11:08	11:22	11:57		reshelf
	1	5.7'	12:20	12:22	12:26		4 P
	4	5.5'	12:00	12:06	12:16		10 P
	3	3.7'	10:54	11:30		reshelf	
	3	5.9'	11:42	11:45	11:57		6 P

mid, pale yellow
M1A white
1/2 brn, red-yel
& yel fsl
1/2 brn fsl, 1mpl
c3d = Mn
11.5
grey fsl, 1cpl
13'
m2d yel-red

3

dk brn L
yel-brn L
yel-red L
yel-brn L c1d
pale yel
red-yel & yellow
c2d, white
yel-brn red-yel
& pale yellow
fsl
pale brn fsl
12 - moisture
increases
water seeps
13' m2d, yel-red,
m2d, lt. grey
14.7

REMARKS Ex Dry Well Bottom at 7.5'

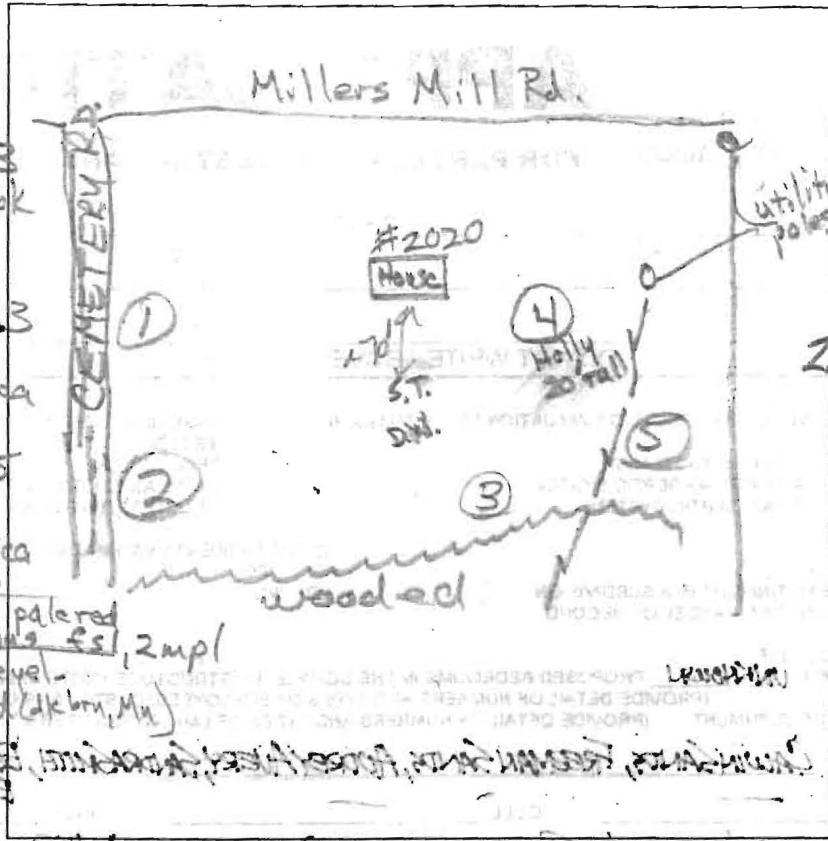
SANITARIAN RB BACKHOE Bill Ingram OTHERS Mark II Freeman Sands

TEST HOLES USED IN SDA _____ AVG. PERC TIME 6.5 SQ. FT/BR _____

BENCH WIDTH 2023 INLET DEPTH 3'-4' MAX. BOT DEPTH 7-7.5 EFFECTIVE SW _____

12' H. brn & pale brn fsl, 1mpl, (red-yel striations) (grey) f3d, (dk brn, Mn)

2
 dk brn L
 3fg & vfbk
 0.3
 brn L, 2fbbk
 yel-red L
 1fbbk
 3.3
 Variegated
 sil. & Mn
 many f. fine mica
 yellow, brown
 grey-brn
 4.5
 brn yel-brn
 red, yel & sil.
 many v. fine mica
 pebbles



4
 dk brn L
 2fg & vfbk
 14' brn L, 2fbbk
 yel-brn L
 7msbk
 (c'd, pale-yel f3d at boundary) (f3d yel-red)
 28' yel-red yel-brn
 1 fsl, sil grey
 5 yel-brn f3s
 mid. pale yel low
 mid white
 6' H brn red-yel
 2 yel f3s
 8' H brn f3s 1mp
 3d Mn
 11.5' grey f3s 1cpl
 13' m2d yel-red
 3
 dk brn L
 yel-brn L
 2 yel-red
 yel-brn L c'd
 pale yel
 2.5' red-yel & yellow
 7d, white
 6.5' yel-brn
 2 pale yel low
 11.5' f3s
 pale brn f3s
 12' moisture
 increases
 13' water seeps
 m2d, yel-red,
 m2d, Mn
 14.7

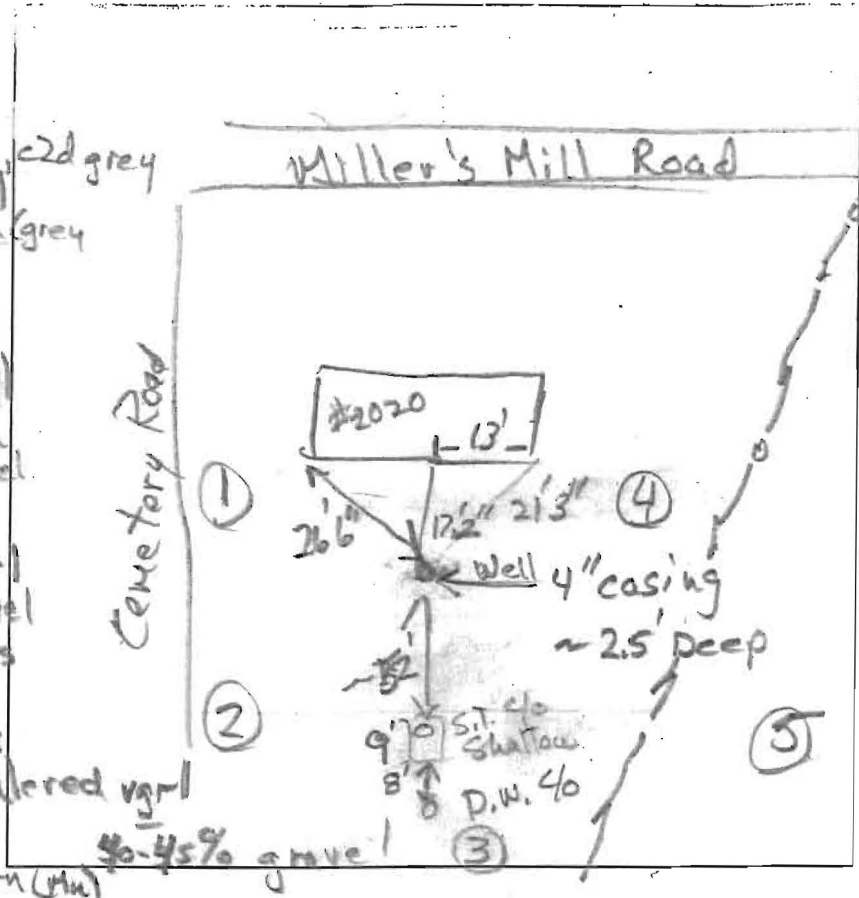
DATE	TEST #	DEPTH	START	BREAK & DROP	STOP	TIME OF 2ND INCH	PIF/H
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7/31/12	3	5.9' / 11.5'	11:42	11:45	11:51	6	P
7/31/12	2	4' / 11'	10:56	10:59	11:05	6	P
7/31/12	1	4' / 12'	11:08	11:22	11:35	reshelf	
7/31/12	1	5.7' / 12'	12:20	12:22	12:26	4	P
7/31/12	4	5.5' / 11.5'	12:00	12:06	12:16	10	P
7/31/12	3	3.7' / 11.5'	10:54	11:30		reshelf	
7/31/12	3	5.9' / 11.5'	11:42	11:45	11:51	6	P

7.5' 1/2 grey brn & palered
 1/2 yellow striations f3s, 2mpl
 moist
 13' red-yel pale yel
 & grey c3d (dk brn, Mn)
 1
 dk. brn loam
 3fg & vfbk
 1.5' brn L, 2fbbk
 yel-red L
 few gravel
 few stones
 4.2' Variegated
 sil; brn, yellow
 8.7' 4 brn-yel
 H brn
 & yellow f3s
 c2d, Mn
 12' H. brn & pale brn
 f3s 1mpl
 red-yel striations
 (red, grey)
 13' f3d, (dk brn, Mn)

REMARKS Ex Dry Well Bottom at 7.5'
 SANITARIAN RB BACKHOE Bill Ingram OTHERS Mark II
 TEST HOLES USED IN SDA AVG. PERC TIME 6.5 SQ. FT/BR
 TRENCH WIDTH 2 or 3 INLET DEPTH 3-4' MAX. BOT DEPTH 7-7.5' EFFECTIVE SW

14.7

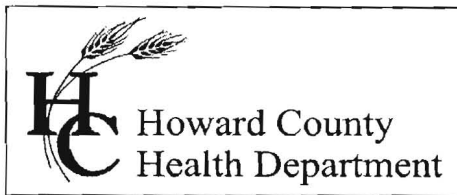
3' to 4' dk brn & yel-brn fsl
 4' yel-brn fsl
 4' yel-red fsl
 dense c2d grey
 5' brn fsl
 5' c2d yel fsl
 6' red, yel & brn fsl
 few gravel
 6' red, yellow & yel-brn grl
 30% gravel
 few Mn coats
 11' moisture increases
 pale brn & pale red varl
 mid grey
 c1 & 2 dk brn (Mn)
 13' → water



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
7/31/12	5	11'	Visual	sidewalk	5' to 7'	0.8 gpd	P

13

REMARKS Overhead electric between #5 and #3 & #4
 SANITARIAN RB BACKHOE Bill Ingram OTHERS Mack #1
Freeman Sand's
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH 2' or 3' INLET DEPTH 3'-4' MAX. BOT DEPTH 7' EFFECTIVE SW _____



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

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

August 2, 2012

To: Scott Shanaberger, Shanaberger & Lane
home@shanlane.com

RE: **Perc Test Report, 2020 Miller's Mill Road (Tax Map 14, Parcel 18), A537371**

Percolation testing was conducted on the referenced property on July 31, 2012. The purpose for conducting these percolation tests was to delineate a septic reserve area for the subject property.

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. Soil conditions either satisfactory or unsatisfactory for onsite wastewater disposal were observed and recorded for each location tested on each proposed lot. Areas that may be included in a septic reserve are represented by test locations having satisfactory soil conditions. Howard County Code [3.805.A.2.X] requires that the area of the septic reserve be large enough to accommodate an initial drainfield and two repair drainfields for the planned residence.

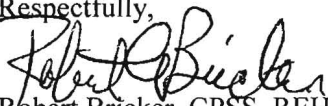
Soil conditions satisfactory for onsite wastewater treatment and disposal were found at each of the five locations observed and tested. Typically, soil profiles are loamy. Percolation rates are moderate throughout the tested area.

Field data collected are shown on two Percolation Test Worksheets sent to you on July 31. Recommended Inlet and Trench Bottom depths, and Usable Sidewall all are based on observed soil properties and characteristics at respective test locations as well as the particular soils materials tested. The values for the drainfield parameters will be documented during the Percolation Certification Plan process, and then maintained in the Health Department file for the subject property.

The Percolation Certification Plan must show the locations of utility poles and the electrical wire that crosses the property. Also, if a utility easement is associated with the line, show the easement boundaries. A well with 4-inch casing was exposed, and that location must be shown on the Percolation Certification Plan with the phrase 'To Be Sealed'.

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 Sanitarian
Well and Septic Program

Enclosures (2)
Copy: file

August 28, 2012

Howard County Department Health Department
Bureau of Environmental Health
7178 Columbia Gateway Drive
Columbia, MD. 21046
Att: Mr. Bert Nixon, Director

re: 2020 Millers Mill Road

Dear Mr. Nixon:

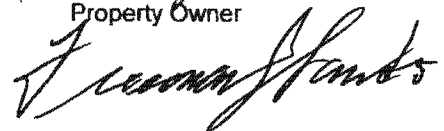
I request that the 2 proposed well sites shown on the Perc Certification Plat for 2020 Millers Mill Road (prepared by Shanaberger & Lane) be approved. It is understood that both proposed well sites are downgradient from 2 septic areas in the Riggs Meadow subdivision, and that both proposed well sites are greater than 200 feet from those septic areas.

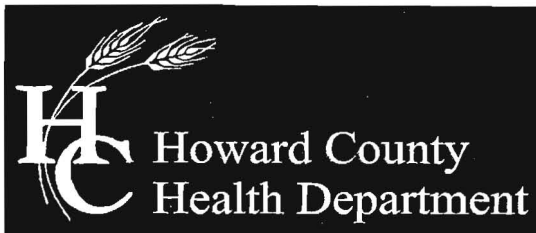
Thank you for your assistance.

Sincerely,



Property Owner





Office of the Health Officer
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

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

September 7, 2012

**Calvin Sands, Freeman Sands, Audrey Avery, Sandra Smith,
and Estate of Thurman Eugene Sands**

c/o Freeman Sands
10070 Colonial Drive
Ellicott City, MD 21042

RE: Variance request
2020 Millers Mill Road
Tax Map 14 Parcel 18
Howard County, Maryland

Dear Mr. Sands,

The Health Department submitted a variance request on your behalf for the potential development of 2020 Millers Mill Road (Howard County Tax Map 14, Parcel 18). Consideration of the soil conditions and percolation test results, assumed groundwater flow patterns, and landscape position were some of the factors used in making our recommendation for approval.

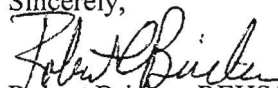
The Maryland Department of the Environment (MDE) has accepted our recommendation to approve the variance request subject to the specific conditions that are described below. The pending approval will allow for the a well to be established at least 200 feet distance from several septic reserve areas that are upgradient in the Riggs Meadow subdivision.

Due to the geology, soils characteristics, and landscape position of the sewage areas in relation to the proposed well, the request may be approved subject to the following conditions:

1. The well casing must be made of steel.
2. The well casing is to be set at a minimum of 50 feet depth or at least 10 feet into competent bedrock, whichever is deeper.

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

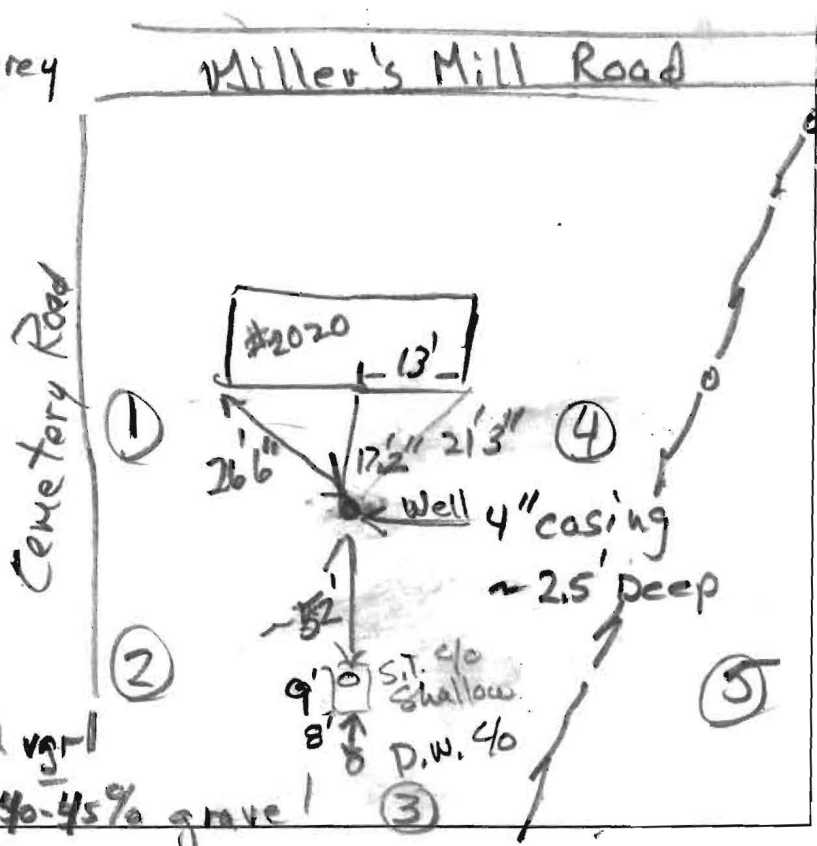
Sincerely,


Robert Bricker, REHS/R.S.
Well and Septic Program


Maryland Department of the Environment

COPY: Scott Shanaberger, Shanaberger & Lane
file


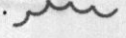

1 to 2 dk brn L
 3 1/2 to 4 1/2 yel-brn fsl, c2d grey
 4 (yel-red fsl) dense c2d grey
 5' brn fsl
 6' c2d (yel) red, yel & brn fsl few gravel
 7' red yellow & yel-brn grl 30% gravel few Mn coats
 8' moisture increases pale brn & paler red vgrl m 1d grey c1 & 2d dk brn (m)
 9' water



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
7/31/12	5	11'	Visual	sidewalls	5' to 7'	0.8 gpd/ft ²	P

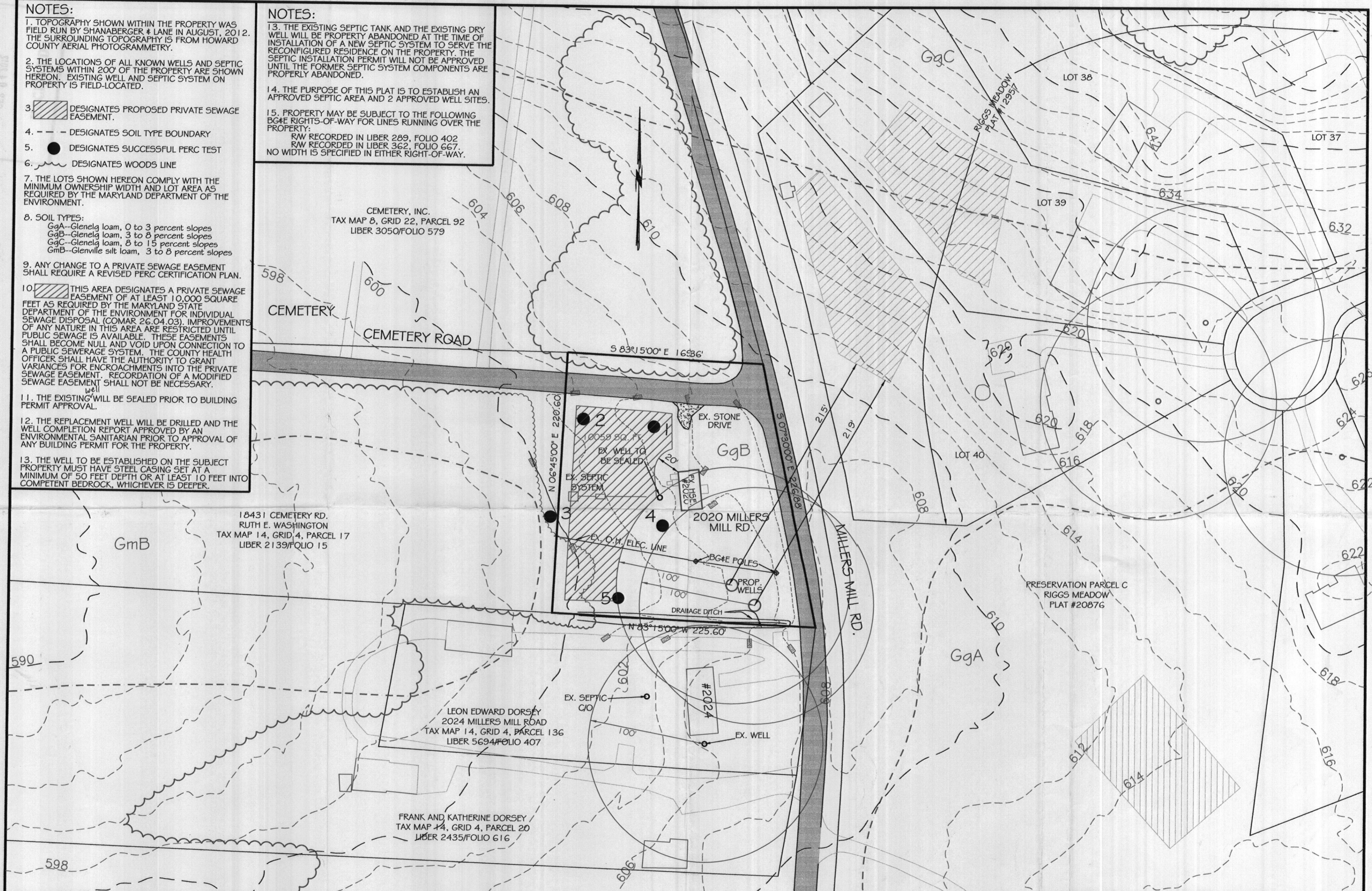
REMARKS Overhead electric between #5 and #3 & #4
 SANITARIAN RB BACKHOE Bill Ingram OTHERS Mack #1 Freeman Sands
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH 2' or 3' INLET DEPTH 3'-4' MAX. BOT DEPTH 7' EFFECTIVE S/W _____

NOTES:

1. TOPOGRAPHY SHOWN WITHIN THE PROPERTY WAS FIELD RUN BY SHANABERGER & LANE IN AUGUST, 2012. THE SURROUNDING TOPOGRAPHY IS FROM HOWARD COUNTY AERIAL PHOTOGRAMMETRY.
2. THE LOCATIONS OF ALL KNOWN WELLS AND SEPTIC SYSTEMS WITHIN 200' OF THE PROPERTY ARE SHOWN HEREON. EXISTING WELL AND SEPTIC SYSTEM ON PROPERTY IS FIELD-LOCATED.
3.  DESIGNATES PROPOSED PRIVATE SEWAGE EASEMENT.
4. - - - DESIGNATES SOIL TYPE BOUNDARY
5. ● DESIGNATES SUCCESSFUL PERC TEST
6.  DESIGNATES WOODS LINE
7. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
8. SOIL TYPES:
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
9. ANY CHANGE TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
10.  THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET 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 SEWAGE 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 VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
11. THE EXISTING WELL WILL BE SEALED PRIOR TO BUILDING PERMIT APPROVAL.
12. THE REPLACEMENT WELL WILL BE DRILLED AND THE WELL COMPLETION REPORT APPROVED BY AN ENVIRONMENTAL SANITARIAN PRIOR TO APPROVAL OF ANY BUILDING PERMIT FOR THE PROPERTY.
13. THE WELL TO BE ESTABLISHED ON THE SUBJECT PROPERTY MUST HAVE STEEL CASING SET AT A MINIMUM OF 50 FEET DEPTH OR AT LEAST 10 FEET INTO COMPETENT BEDROCK, WHICHEVER IS DEEPER.

NOTES:

13. THE EXISTING SEPTIC TANK AND THE EXISTING DRY WELL WILL BE PROPERTY ABANDONED AT THE TIME OF INSTALLATION OF A NEW SEPTIC SYSTEM TO SERVE THE RECONFIGURED RESIDENCE ON THE PROPERTY. THE SEPTIC INSTALLATION PERMIT WILL NOT BE APPROVED UNTIL THE FORMER SEPTIC SYSTEM COMPONENTS ARE PROPERLY ABANDONED.
14. THE PURPOSE OF THIS PLAT IS TO ESTABLISH AN APPROVED SEPTIC AREA AND 2 APPROVED WELL SITES.
15. PROPERTY MAY BE SUBJECT TO THE FOLLOWING BG&E RIGHTS-OF-WAY FOR LINES RUNNING OVER THE PROPERTY:
RAW RECORDED IN LIBER 289, FOLIO 402
RAW RECORDED IN LIBER 362, FOLIO 667.
NO WIDTH IS SPECIFIED IN EITHER RIGHT-OF-WAY.



PERC CERTIFICATION: I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON REFLECTS FIELD WORK DONE BY ME OR UNDER MY DIRECT SUPERVISION AND IS CORRECT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

G. Scott Shanaberger
G. SCOTT SHANABERGER
PROFESSIONAL LAND SURVEYOR
LICENSE EXPIRATION DATE 4/2/2014

SHANABERGER & LANE

8726 TOWN & COUNTRY BLVD.
SUITE 201
ELICOTT CITY, MD 21043
(410) 461-9563
(410) 461-9693 fax
home@shanlane.com

APPROVED: FOR PRIVATE WATER AND SEWERAGE SYSTEMS

Patricia Beilenson 9/7/2012
COUNTY HEALTH OFFICER DATE


PERC CERTIFICATION PLAT
SANDS PROPERTY
2020 MILLERS MILL ROAD

PROPERTY OF CALVIN SANDS, FREEMAN SANDS, AUDREY AVERY,
SANDRA SMITH, AND THE ESTATE OF THURMAN EUGENE SANDS
TITLE DEED: 12645/448L
TAX MAP 14, GRID 4, PARCEL 18
4TH ELECTION DISTRICT, HOWARD COUNTY, MD.
SCALE: 1" = 50' DATE: 8/21/12, 8/22/2012, 9/3/2012

NOTES:


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4. - - - DESIGNATES SOIL TYPE BOUNDARY

5. ● DESIGNATES SUCCESSFUL PERC TEST


6.  DESIGNATES WOODS LINE

7. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.

8. SOIL TYPES:

- GgA--Glenelg loam, 0 to 3 percent slopes
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11. THE EXISTING ^{well} WILL BE SEALED PRIOR TO BUILDING PERMIT APPROVAL.

12. THE REPLACEMENT WELL WILL BE DRILLED AND THE WELL COMPLETION REPORT APPROVED BY AN ENVIRONMENTAL SANITARIAN PRIOR TO APPROVAL OF ANY BUILDING PERMIT FOR THE PROPERTY.

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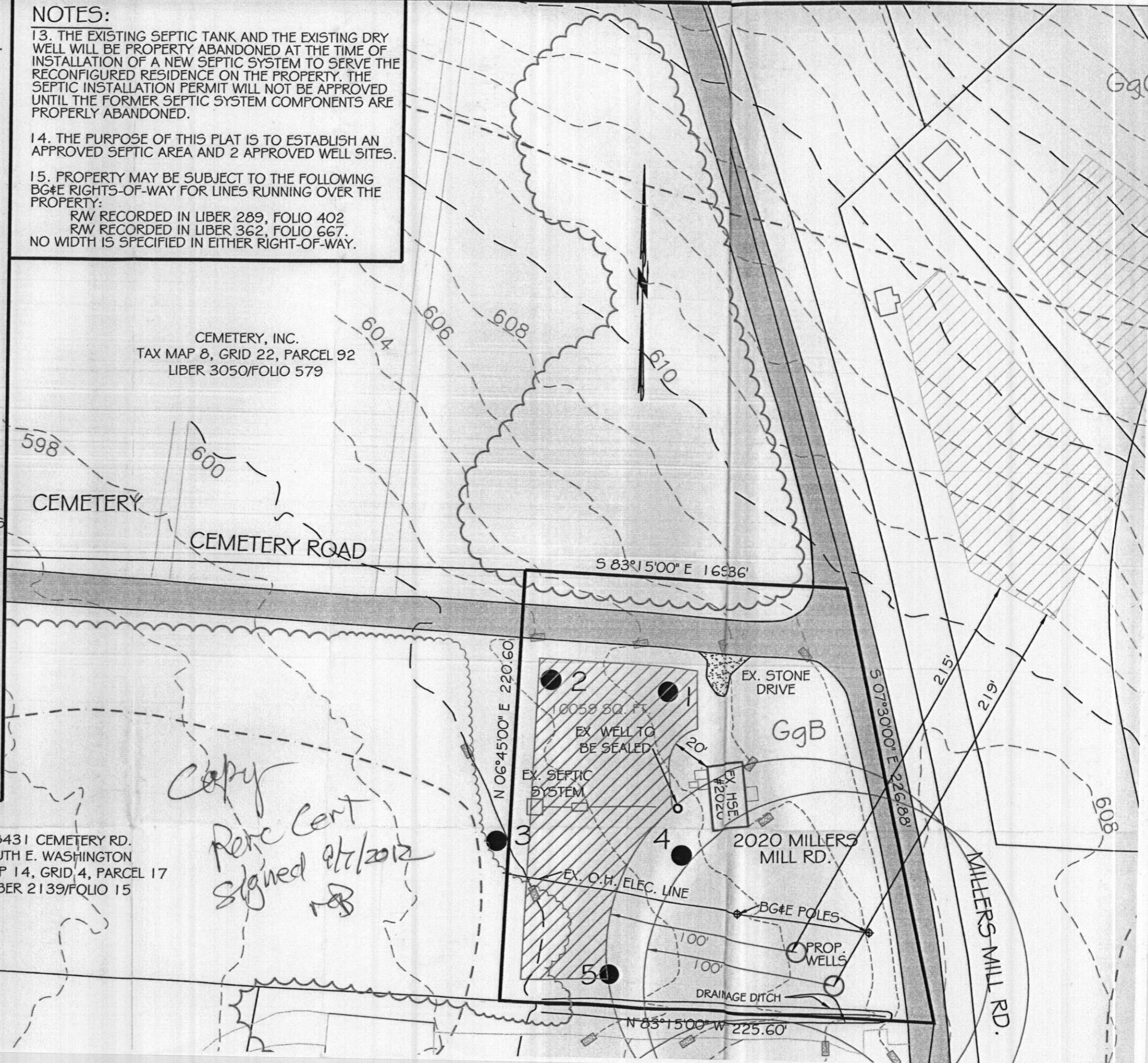
NOTES:

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15. PROPERTY MAY BE SUBJECT TO THE FOLLOWING BG&E RIGHTS-OF-WAY FOR LINES RUNNING OVER THE PROPERTY:

RW RECORDED IN LIBER 289, FOLIO 402
 RW RECORDED IN LIBER 362, FOLIO 667.
 NO WIDTH IS SPECIFIED IN EITHER RIGHT-OF-WAY.



18431 CEMETERY RD.
 RUTH E. WASHINGTON
 TAX MAP 14, GRID 4, PARCEL 17
 LIBER 2139/FOLIO 15

*Copy
 Perc Cert
 signed 8/1/2012
 RB*

GmB

GgB

2020 MILLERS
 MILL RD.

MILLERS MILL RD.

CEMETERY

CEMETERY ROAD

S 83°15'00" E 169.86'

N 06°45'00" E 220.60'

S 07°30'00" E 226.88'


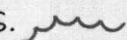
N 85°15'00" W 225.60'

260 4 4 5015

NOTES:

1. TOPOGRAPHY SHOWN WITHIN THE PROPERTY WAS FIELD RUN BY SHANABERGER & LANE IN AUGUST, 2012. THE SURROUNDING TOPOGRAPHY IS FROM HOWARD COUNTY AERIAL PHOTOGRAMMETRY.


2. THE LOCATIONS OF ALL KNOWN WELLS AND SEPTIC SYSTEMS WITHIN 200' OF THE PROPERTY ARE SHOWN HEREON. EXISTING WELL AND SEPTIC SYSTEM ON PROPERTY IS FIELD-LOCATED.

- 3.  DESIGNATES PROPOSED PRIVATE SEWAGE EASEMENT.
- 4. - - - DESIGNATES SOIL TYPE BOUNDARY
- 5. ● DESIGNATES SUCCESSFUL PERC TEST
- 6.  DESIGNATES WOODS LINE

7. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.

8. SOIL TYPES:
 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

9. ANY CHANGE TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.

10.  THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET 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 SEWAGE 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 VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

11. THE EXISTING WELL WILL BE SEALED PRIOR TO BUILDING PERMIT APPROVAL.

12. THE REPLACEMENT WELL WILL BE DRILLED AND THE WELL COMPLETION REPORT APPROVED BY AN ENVIRONMENTAL SANITARIAN PRIOR TO APPROVAL OF ANY BUILDING PERMIT FOR THE PROPERTY.

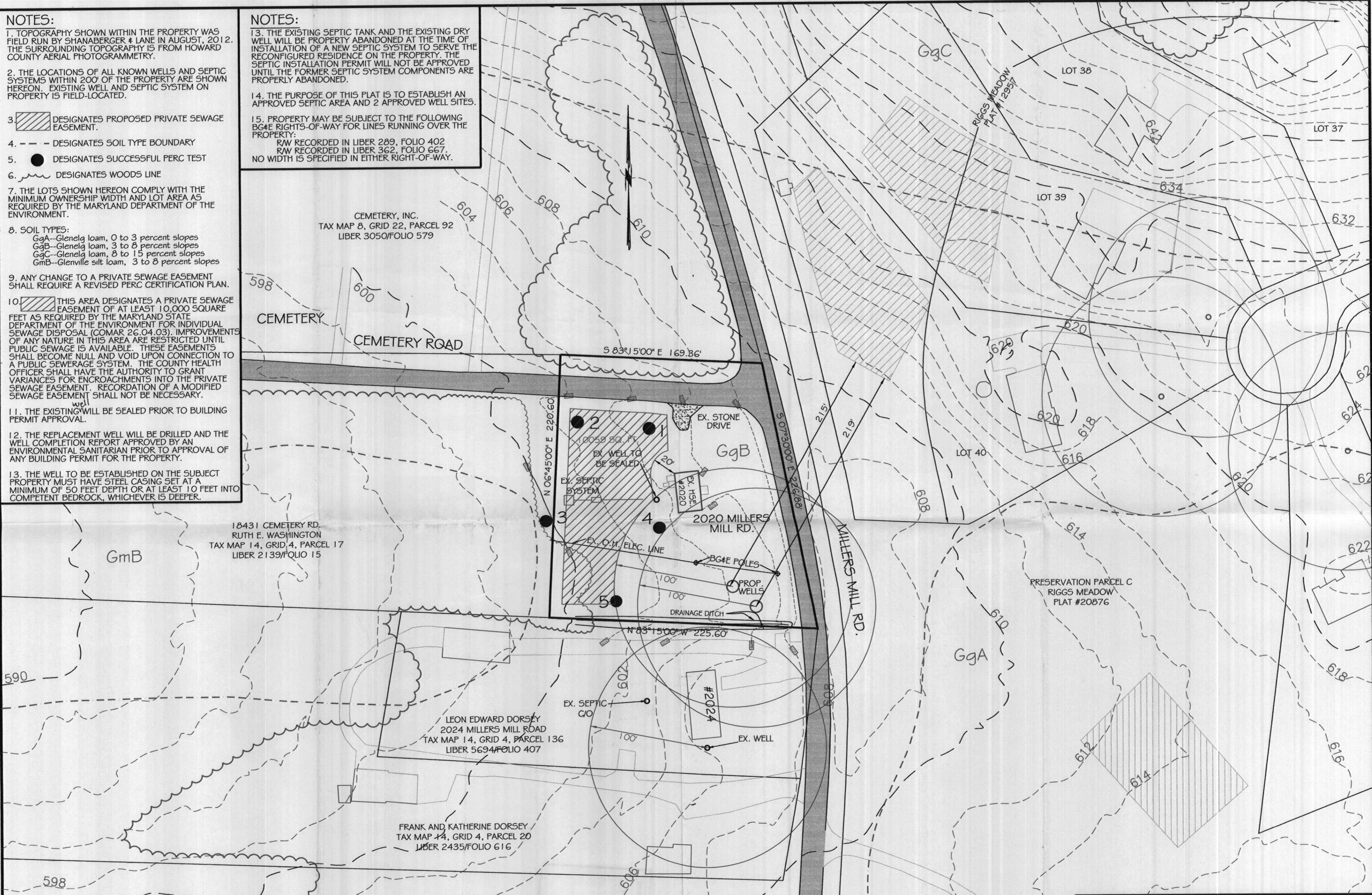
13. THE WELL TO BE ESTABLISHED ON THE SUBJECT PROPERTY MUST HAVE STEEL CASING SET AT A MINIMUM OF 50 FEET DEPTH OR AT LEAST 10 FEET INTO COMPETENT BEDROCK, WHICHEVER IS DEEPER.

NOTES:

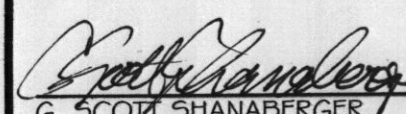
13. THE EXISTING SEPTIC TANK AND THE EXISTING DRY WELL WILL BE PROPERTY ABANDONED AT THE TIME OF INSTALLATION OF A NEW SEPTIC SYSTEM TO SERVE THE RECONFIGURED RESIDENCE ON THE PROPERTY. THE SEPTIC INSTALLATION PERMIT WILL NOT BE APPROVED UNTIL THE FORMER SEPTIC SYSTEM COMPONENTS ARE PROPERLY ABANDONED.

14. THE PURPOSE OF THIS PLAT IS TO ESTABLISH AN APPROVED SEPTIC AREA AND 2 APPROVED WELL SITES.

15. PROPERTY MAY BE SUBJECT TO THE FOLLOWING BG&E RIGHTS-OF-WAY FOR LINES RUNNING OVER THE PROPERTY:
 RAW RECORDED IN LIBER 289, FOLIO 402
 RAW RECORDED IN LIBER 362, FOLIO 667.
 NO WIDTH IS SPECIFIED IN EITHER RIGHT-OF-WAY.



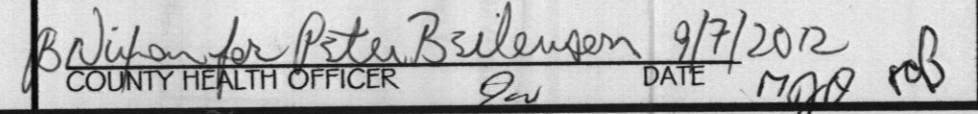
PERC CERTIFICATION: I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON REFLECTS FIELD WORK DONE BY ME OR UNDER MY DIRECT SUPERVISION AND IS CORRECT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.


 G. SCOTT SHANABERGER
 PROFESSIONAL LAND SURVEYOR #10649
 LICENSE EXPIRATION DATE 4/2/2014



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 ELLICOTT CITY, MD 21043
 (410) 461-9563
 (410) 461-9693 fax
 home@shanlane.com

APPROVED: FOR PRIVATE WATER AND SEWERAGE SYSTEMS


 Peter Brulansen 9/7/2012
 COUNTY HEALTH OFFICER DATE

PERC CERTIFICATION PLAT
SANDS PROPERTY
2020 MILLERS MILL ROAD
 PROPERTY OF CALVIN SANDS, FREEMAN SANDS, AUDREY AVERY,
 SANDRA SMITH, AND THE ESTATE OF THURMAN EUGENE SANDS
 TITLE DEED: 12645/448L
 TAX MAP 14, GRID 4, PARCEL 18
 4TH ELECTION DISTRICT, HOWARD COUNTY, MD.
 SCALE: 1" = 50' DATE: 8/2/12, 8/22/2012, 9/3/2012