

# APPLICATION

PERCOLATION TESTING

A 516045

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 313-2640

DISTRICT \_\_\_\_\_

DATE \_\_\_\_\_

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

AGENT OR PROSPECTIVE BUYER \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY LOCATION:

SUBDIVISION Susan Moxley LOT NO. 10

ROAD AND DESCRIPTION \_\_\_\_\_

TAX MAP \_\_\_\_\_ PARCEL # \_\_\_\_\_

SIZE OF LOT \_\_\_\_\_ TYPE BLDG. \_\_\_\_\_  
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.

(SIGNATURE OF APPLICANT)

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

DISAPPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

# THIS IS NOT A PERMIT

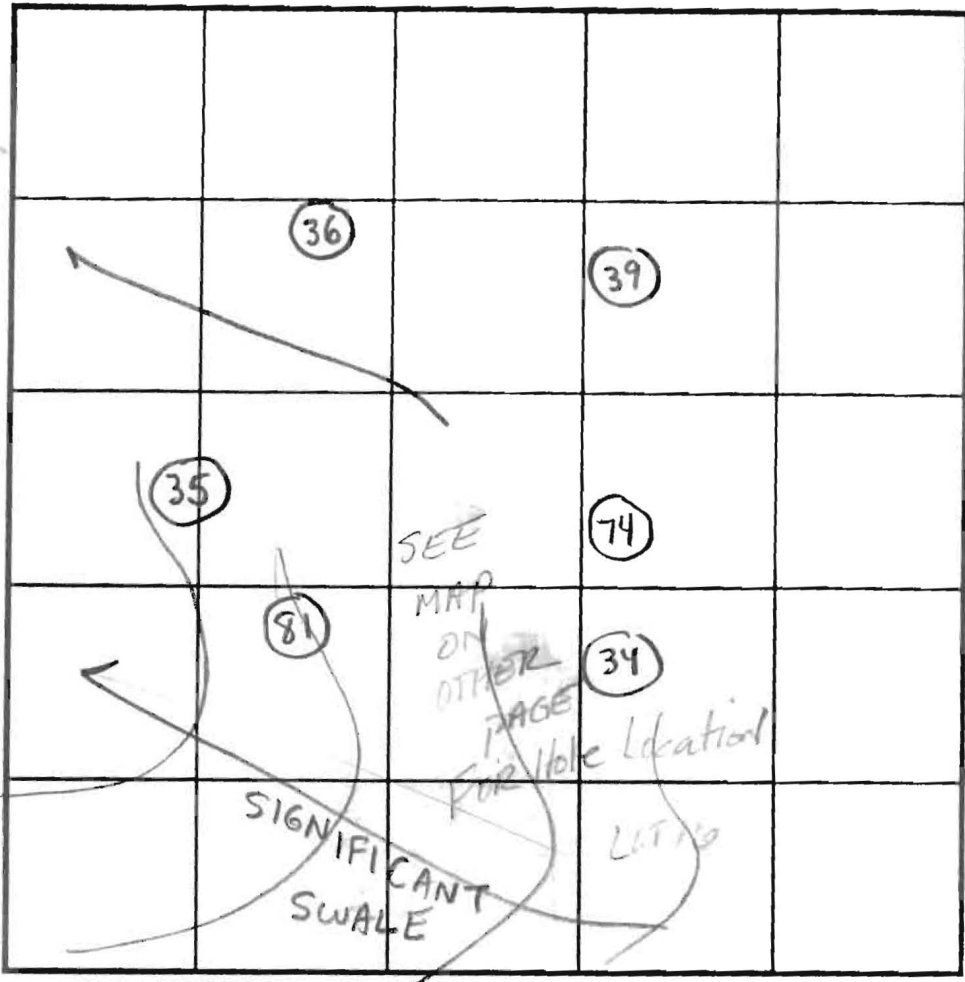
516045  
COUNTY #

SOIL PROFILE

0'

74

DK brn, org  
topsoil  
1/2'  
wk rdbn  
str. brn  
Rock <5%  
silm -  
3'  
SiCLM  
10-20% Rk  
brn  
ybrn  
hwy cilm  
6'  
org brn  
tan brn  
sineslm  
Rk <5%  
Bottom  
4'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

0'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
4-15-02	74	6"8" S	11:30	11:51	11:51	← peg pulled at 2nd peg	NA
	↓	14 1/2' V	(VISUAL	OK	SEE	SOIL PROFILE)	
	Repour	7' S	2:39pm	2:43pm	2:43pm	2:51pm	8min OK
	81	7' S	10:58:32	11:05	11:05	11:25	20min OK
		14' V	(VISUAL	OK	SEE	SOIL PROFILE)	

REMARKS Hole per plan

TYPE OF SOIL \_\_\_\_\_

TESTED BY SRK & KG ALSO PRESENT C. Sperry

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_

INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT./BEDROOM \_\_\_\_\_

# APPLICATION

PERCOLATION TESTING

A 516045

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HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 313-2840

DISTRICT \_\_\_\_\_

DATE 9/25/2001

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER Susan Moxley

ADDRESS 3489 Downing Court PHONE 1-301-831-8350  
Adamsstown, MD 21769

AGENT OR PROSPECTIVE BUYER Benchmark Engineering, Inc.

ADDRESS 8480 Baltimore National Pk. PHONE 410-465-6105  
Ellicott City, MD 21043  
Suite 418

PROPERTY LOCATION:

SUBDIVISION Susan Moxley Property LOT NO. OLD 5 116/115

ROAD AND DESCRIPTION Frederick Road @ Roxbury Mills Road  
NE Quadrant of Intersection

TAX MAP 8 PARCEL # 176

SIZE OF LOT 1 Ac. ± TYPE BLDG. SFD  
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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M. S. Moxley  
(SIGNATURE OF APPLICANT)

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

DISAPPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_

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# THIS IS NOT A PERMIT

516045  
COUNTY #

SOIL PROFILE 36

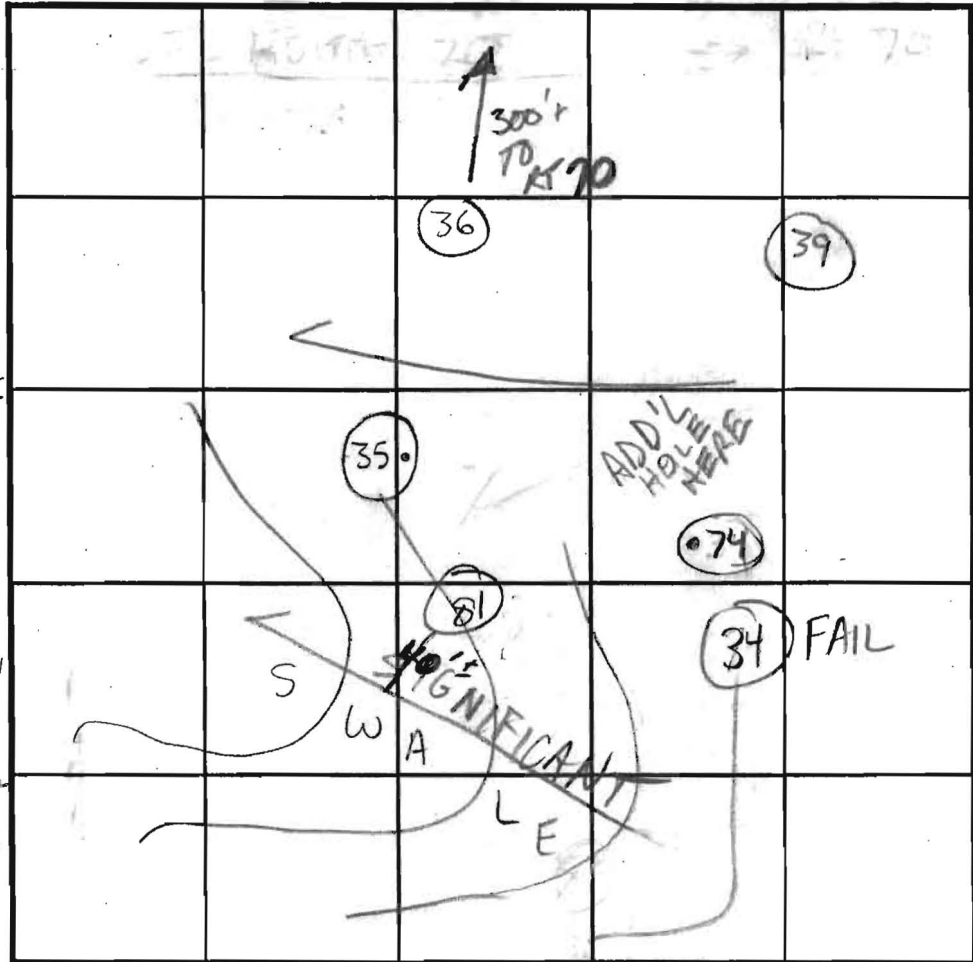
0' Brn topsoil 6-8"  
rd brn cl 1m 5-8% Rock  
7-7 1/2'  
light brn yellow scl 1m 15-20% Saprolite/ Rock mix  
14 1/2'

39

Topsoil 9 granular 2 1/2'  
Transition Brn Pink scl 1m 3 1/2'  
Pink slm  
Rock Frag ~15-20%  
Bottom 15'

35

Topsoil 6"  
Brn Lm Trace rock  
7'  
Pink, beige Sand Lm weak Saprolite 10-20%  
Bottom 16'



SOIL PROFILE 34

0' brown topsoil  
8-10' weak rd heavy clay loam  
2'5" strong brown clay loam  
8' tan-sandy loam 5-15% Saprolite mix  
15'

81

DK brn topsoil 14"  
strong brn y brn R < 5% by CLM  
wk rd brn Pink fine SLM < 5% RF  
Bottom 6'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
12/6/01	36	7 1/2' S	3:21	3:33	3:33	3:44	11 min
		14 1/2' D	—————		—————		OK
	39	6' S	3:10	3:12	3:12	3:15	3 min
		15' D	—————		—————		OK
	35	7 5/8" S	12:25	12:33	12:33	12:48	15 min
		16" D	—————		—————		OK
	34	7' S	12:17	no movement after several min.			NA
		15' D	—————		FAIL DEEP CLAY		} Fail
4/15/02	81	7' S	10:58:32	11:05	11:05	11:25	
		14' V	—————		—————		OK

REMARKS: HOLES PER PLAN Rel. location of 74?  
 TYPE OF SOIL \_\_\_\_\_  
 TESTED BY SRK / UG ALSO PRESENT Clark Sperry & Donnyw/HarFields  
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_  
 INLET DEPTH 6" MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT/BEDROOM \_\_\_\_\_

## Freemon, Robert

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**From:** Freemon, Robert  
**Sent:** Friday, October 28, 2016 3:48 PM  
**To:** 'John Carney'  
**Cc:** 'zac@foglesinc.com'; 'mlcooke@drhorton.com'  
**Subject:** Vista Ridge Lot 16  
**Attachments:** Email 10-18-16.pdf

Hi John,

The Perc Cert and BAT Plan for 2045 Drovers Lane have been approved by the Health Dept. (10/18/16). We still need a Revised Plot Plan before this building permit can be approved. The Well Box, SDA and Grading are different from the Revised plot plan of 9/22. I have attached an email that was sent on 10/18. Let me know if you have any questions or concerns. Thanks.

*Robert Freemon*

*Howard County Health Department*

*8930 Stanford Blvd. Columbia, MD 21045*

*Well and Septic Program*

*Phone: 410-313-6357*

*Email: [rfreemon@howardcountymd.gov](mailto:rfreemon@howardcountymd.gov)*

*<https://www.howardcountymd.gov/Departments/Health/Environmental-Health/Well-and-Septic>*

## Williams, Jeffrey

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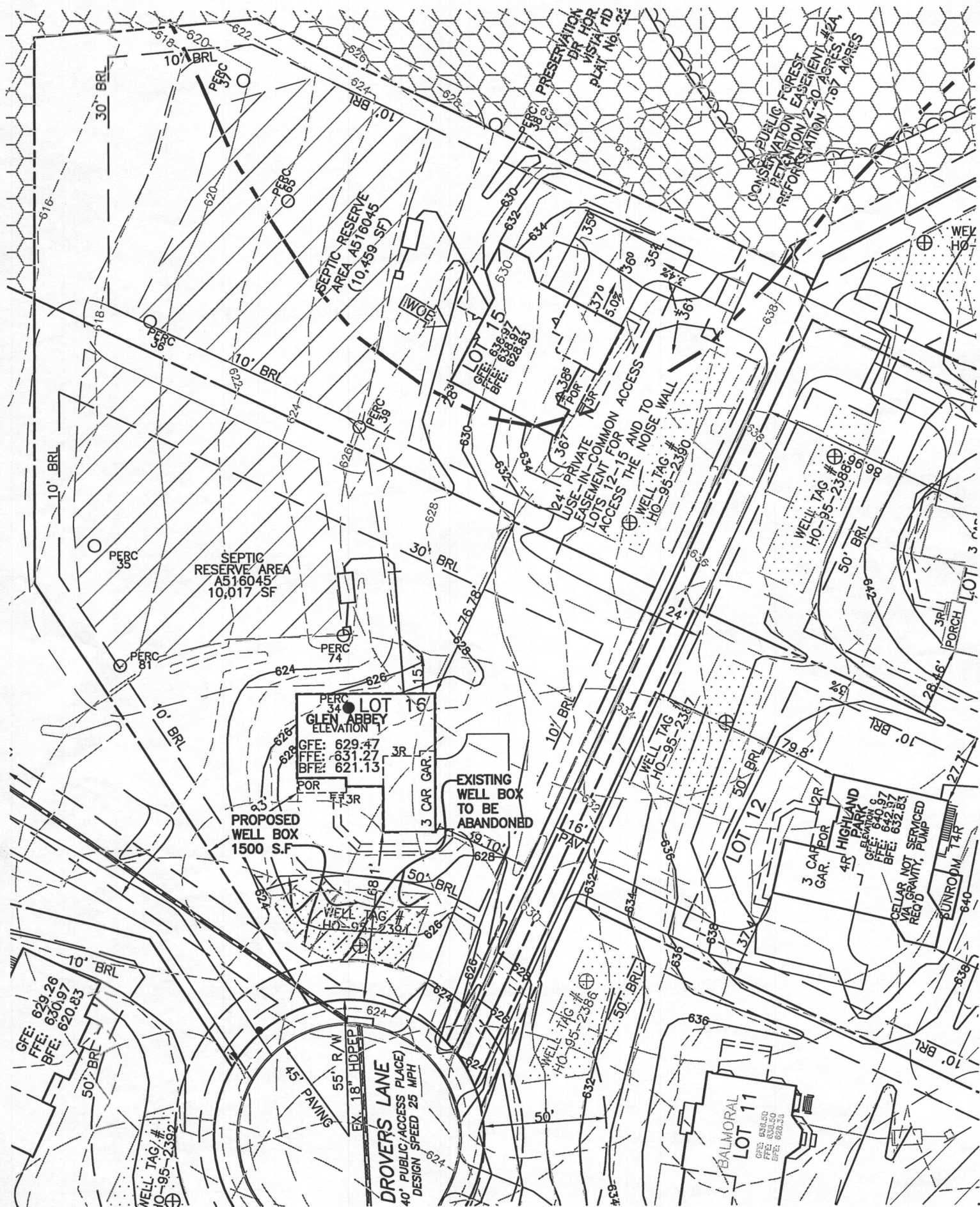
**From:** Williams, Jeffrey  
**Sent:** Tuesday, October 18, 2016 9:08 AM  
**To:** John Carney (jcarney@bei-civilengineering.com)  
**Subject:** vista ridge lot 16

We've approved the perc cert plan and BAT plan for lot 16, but we realized that the building permit plot plan doesn't show the same building footprint or any of the updated SDA/septic component info on it. Please revise the plot plan and upload to Accela. Send an email to me and Spencer (Robert Freemon, copied on this email) when that's done. Once we see it in Accela, we can approve the BP


Jeff Williams  
Program Supervisor, Well & Septic Program  
Bureau of Environmental Health  
Howard County Health Dept.  
410-313-4261  
[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)

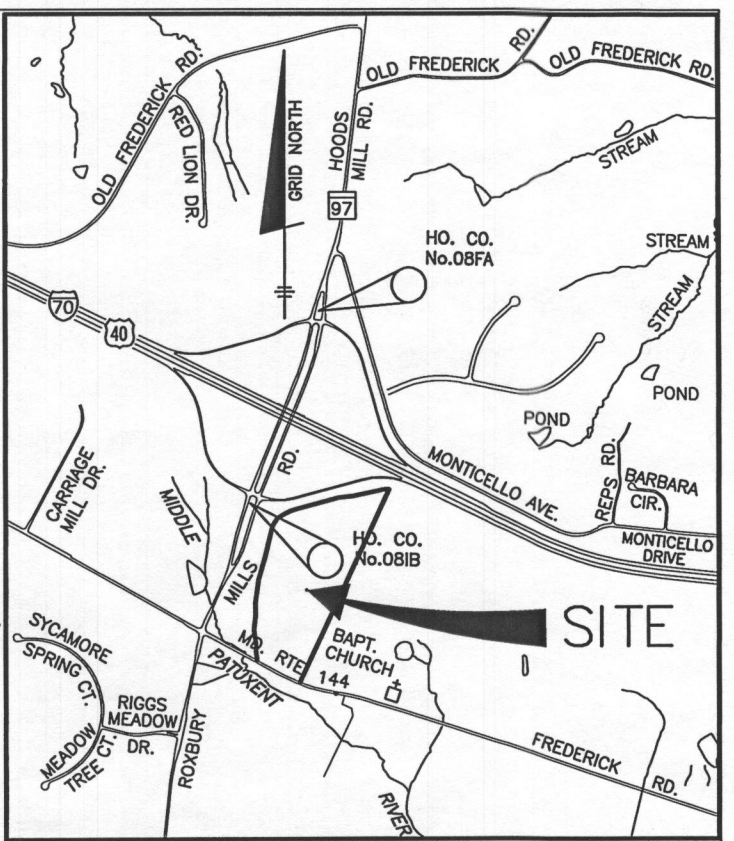
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**GENERAL NOTES**

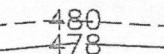
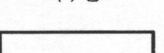

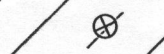
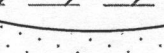
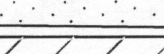


- 1.) THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- 2.)  THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 S.F. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
- 3.) UNLESS OTHERWISE SHOWN NO WELLS OR SEWERAGE EASEMENTS ARE LOCATED WITHIN 100 FEET OF THE PROPERTY.
- 4.) EXACT LENGTH OF SEPTIC TRENCHES IS TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
- 5.) TOPOGRAPHY SHOWN HEREON WAS PURCHASED FROM HOWARD COUNTY, GEOGRAPHICAL INFORMATION SYSTEMS BY BENCHMARK ENGINEERING, INC. AND FIELD VERIFIED.
- 6.) THE WELL IS TO BE DRILLED PRIOR TO SUBMITTAL OF FINAL PLAT FOR SIGNATURE. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED 'GOVERNMENTAL DELAY' IF THE WELL DRILLING DELAYS THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
- 7.) GROUND WATER APPROPRIATION PERMIT SHALL BE OBTAINED PRIOR TO SUBMITTAL OF RECORD PLAT FOR SIGNATURE.
- 8.) ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.



**VICINITY MAP**

SCALE: 1"=2000'  
ADC MAP No. 4 GRID D-13

**LEGEND**

- SOILS CLASSIFICATION **CgC2**
- SOILS DELINEATION 
- EXISTING CONTOURS (FIELD RUN) 
- PROPOSED STRUCTURE 
- PROPOSED WELL BOX 
- EXISTING WELL BOX 
- PROPOSED SEPTIC FIELD 
- PERCOLATION TEST PASSED 
- PERCOLATION TEST FAILED 

SOILS LEGEND		
MAP SYMBOL	SOIL GROUP	SOIL TYPE
CgB2	B	CHESTER GRAVELLY SILT LOAM, 3 TO 8 % SLOPES, MODERATELY ERODED
CgC2	B	CHESTER GRAVELLY SILT LOAM, 8 TO 15 % SLOPES, MODERATELY ERODED
ChA	B	CHESTER SILT LOAM, 0 TO 3 % SLOPES
ChB2	B	CHESTER SILT LOAM, 3 TO 8 % SLOPES, MODERATELY ERODED.
ChC2	B	CHESTER SILT LOAM, 8 TO 15 % SLOPES, MODERATELY ERODED.
ChD2	B	CHESTER SILT LOAM, 15 TO 25 % SLOPES, MODERATELY ERODED.
Cs	B	COMUS SILT LOAM
EkB2	C	ELJOAK SILT LOAM, 3 TO 8 % SLOPES, MODERATELY ERODED
EkC2	C	ELJOAK SILT LOAM, 8 TO 15 % SLOPES, MODERATELY ERODED
EkD2	C	ELJOAK SILT LOAM, 15 TO 25 % SLOPES, MODERATELY ERODED
EID3	C	ELJOAK SILTY CLAY LOAM, 15 TO 25 % SLOPES, SEVERELY ERODED

\* INDICATES HYDRIC SOILS  
TAKEN FROM SOILS SURVEY, ISSUED JULY 1968, MAP NO. 7

**BENCHMARK**

ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS

**ENGINEERING, INC.**

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315  
ELLCOTT CITY, MARYLAND 21043  
PHONE: 410-465-6105 FAX: 410-465-6844  
E-MAIL: bel@bel-civilengineering.com

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 KNOWLEDGE AND BELIEF.

*Beth Dodson* 3/31/16

PLAN PREPARER: BETH DODSON DATE:  
FOR BENCHMARK ENGINEERING, INC.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER DATE:

**VISTA RIDGE**

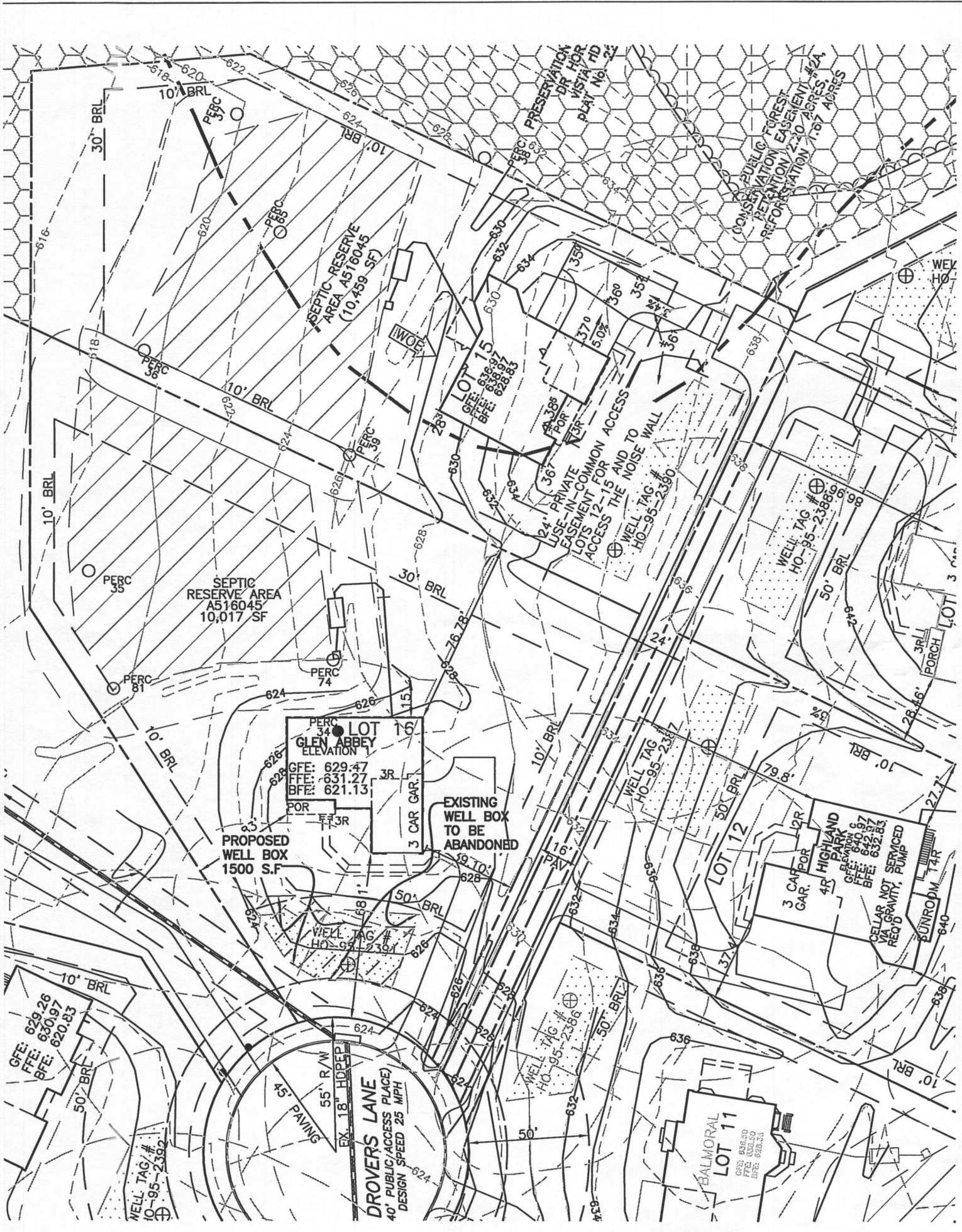
LOT 16

LOCATION: TAX MAP No. 8 - GRID No. 23  
PARCEL No. 176  
4th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: **REVISED PERCOLATION CERTIFICATION PLAN**

DATE: MARCH, 2016 PROJECT NO. 1490

SCALE: 1" = 50' DRAWING 1 OF 1

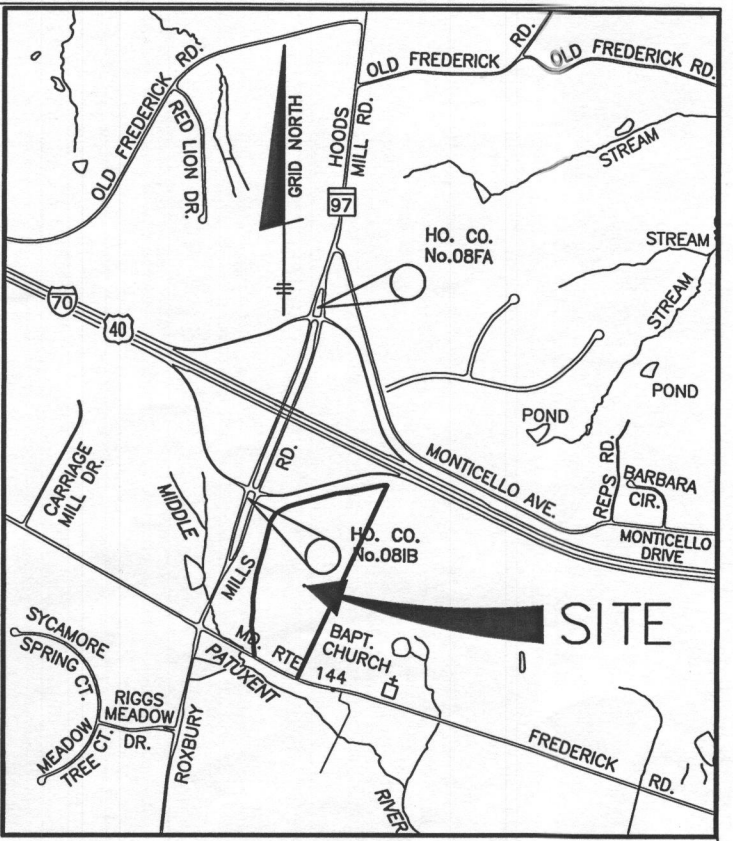


**GENERAL NOTES**

- 1.) THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- 2.) THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 S.F. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
- 3.) UNLESS OTHERWISE SHOWN NO WELLS OR SEWERAGE EASEMENTS ARE LOCATED WITHIN 100 FEET OF THE PROPERTY.
- 4.) EXACT LENGTH OF SEPTIC TRENCHES IS TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
- 5.) TOPOGRAPHY SHOWN HEREON WAS PURCHASED FROM HOWARD COUNTY, GEOGRAPHICAL INFORMATION SYSTEMS BY BENCHMARK ENGINEERING, INC. AND FIELD VERIFIED.
- 6.) THE WELL IS TO BE DRILLED PRIOR TO SUBMITTAL OF FINAL PLAT FOR SIGNATURE. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENTAL DELAY" IF THE WELL DRILLING DELAYS THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
- 7.) GROUND WATER APPROPRIATION PERMIT SHALL BE OBTAINED PRIOR TO SUBMITTAL OF RECORD PLAT FOR SIGNATURE.
- 8.) ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.

**LEGEND**

- SOILS CLASSIFICATION **CgC2**
- SOILS DELINEATION
- EXISTING CONTOURS (FIELD RUN)
- PROPOSED STRUCTURE
- PROPOSED WELL BOX
- EXISTING WELL BOX
- PROPOSED SEPTIC FIELD
- PERCOLATION TEST PASSED
- PERCOLATION TEST FAILED



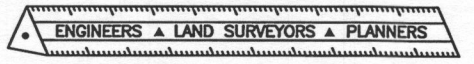
**VICINITY MAP**

SCALE: 1"=2000'  
ADC MAP No. 4 GRID D-13

SOILS LEGEND		
MAP SYMBOL	SOIL GROUP	SOIL TYPE
	B	CHESTER GRAVELLY SILT LOAM, 3 TO 8 % SLOPES, MODERATELY ERODED
	B	CHESTER GRAVELLY SILT LOAM, 8 TO 15 % SLOPES, MODERATELY ERODED
	B	CHESTER SILT LOAM, 0 TO 3 % SLOPES
	B	CHESTER SILT LOAM, 3 TO 8 % SLOPES, MODERATELY ERODED.
	B	CHESTER SILT LOAM, 8 TO 15 % SLOPES, MODERATELY ERODED.
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	B	COMUS SILT LOAM
	C	ELJOAK SILT LOAM, 3 TO 8 % SLOPES, MODERATELY ERODED
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\* INDICATES HYDRIC SOILS  
TAKEN FROM SOILS SURVEY, ISSUED JULY 1968, MAP NO. 7

**BENCHMARK**



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8480 BALTIMORE NATIONAL PIKE SUITE 315  
ELLCOTT CITY, MARYLAND 21043  
PHONE: 410-465-6105 FAX: 410-465-8844  
E-MAIL: bel@bel-civilengineering.com

**VISTA RIDGE**

LOT 16

LOCATION: TAX MAP No. 8 - GRID No. 23  
PARCEL No. 178  
4th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: **REVISED PERCOLATION CERTIFICATION PLAN**

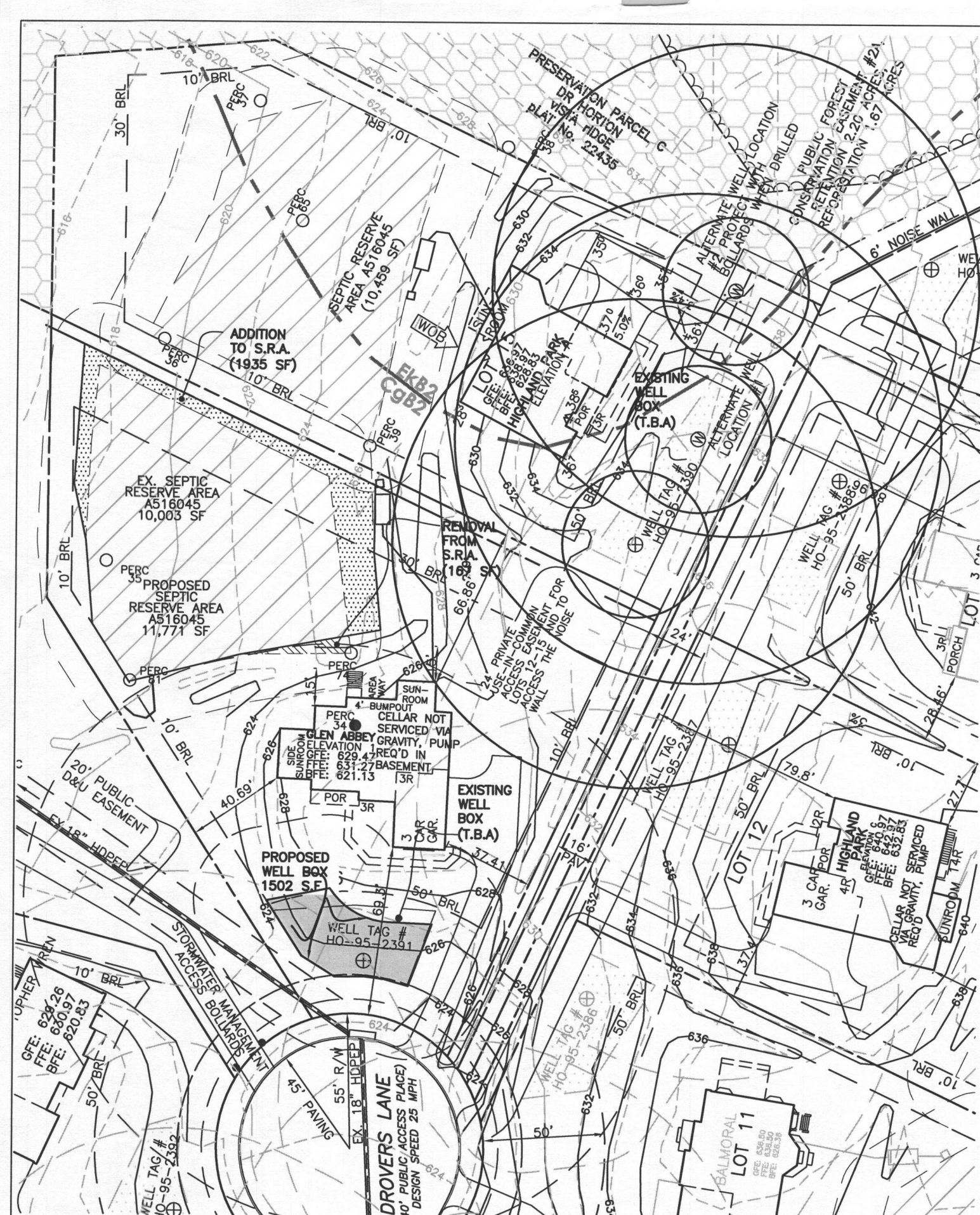
DATE: MARCH, 2016 PROJECT NO. 1490  
SCALE: 1" = 50' DRAWING 1 OF 1

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 KNOWLEDGE AND BELIEF.

*Beth Dodson* 3/31/16  
PLAN PREPARER: BETH DODSON DATE:  
FOR BENCHMARK ENGINEERING, INC.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER DATE:



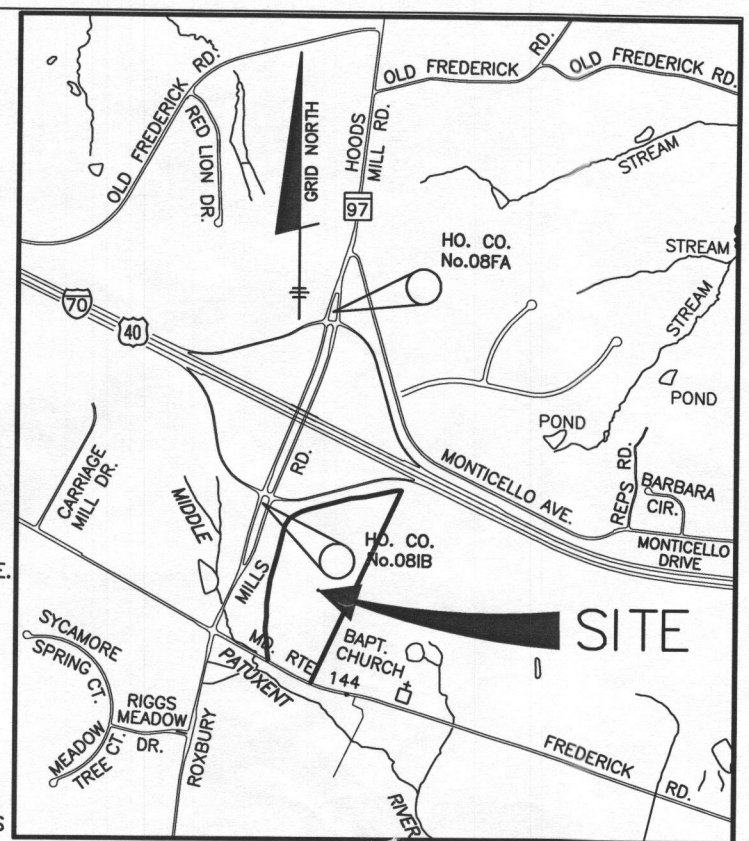
PLAN VIEW  
1" = 50'

**GENERAL NOTES**

- 1.) THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
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- 8.) ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- 9.) THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION IS TO REMOVE THE LOT 15 1500 SF WELL BOX, SHOW A DRILLED WELL AND TWO ALTERNATIVE LOCATIONS ON LOT 15 AND TO REVISE THE LOT 16 SEPTIC DISPOSAL AREA.

**LEGEND**

- SOILS CLASSIFICATION **CgC2**
- SOILS DELINEATION
- EXISTING CONTOURS (FIELD RUN)
- PROPOSED STRUCTURE
- PROPOSED WELL BOX
- EXISTING WELL BOX
- PROPOSED SEPTIC FIELD
- PROPOSED SEPTIC REVISION (ADDITION)
- EXISTING SEPTIC (TO BE REMOVED)
- PERCOLATION TEST PASSED
- PERCOLATION TEST FAILED
- ALTERNATE WELL LOCATION



**VICINITY MAP**

SCALE: 1"=2000'  
ADC MAP No. 4 GRID D-13

SOILS LEGEND		
MAP SYMBOL	SOIL GROUP	SOIL TYPE
	B	CHESTER GRAVELLY SILT LOAM, 3 TO 8 % SLOPES, MODERATELY ERODED
	C	ELIOAK SILT LOAM, 3 TO 8 % SLOPES, MODERATELY ERODED

\* INDICATES HYDRIC SOILS  
TAKEN FROM SOILS SURVEY, ISSUED JULY 1968, MAP NO. 7

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 KNOWLEDGE AND BELIEF.

*John M. Carney* 9/16/16

PLAN PREPARER: JOHN M. CARNEY FOR BENCHMARK ENGINEERING, INC. DATE:

**BENCHMARK ENGINEERING, INC.**  
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS  
8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315  
ELLCOTT CITY, MARYLAND 21043  
PHONE: 410-465-6105 FAX: 410-465-6644  
E-MAIL: be@be-civilengineering.com

<b>VISTA RIDGE</b> LOTS 15 AND 16	
LOCATION:	TAX MAP No. 8 - GRID No. 23 PARCEL No. 176 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE:	<b>REVISED PERCOLATION CERTIFICATION PLAN</b>
DATE:	APRIL, 2016 SEPTEMBER, 2016
SCALE:	1" = 50'
PROJECT NO.	1490
DRAWING	1 OF 1

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT  
*William M. Rossman* 10/17/16  
COUNTY HEALTH OFFICER DATE:



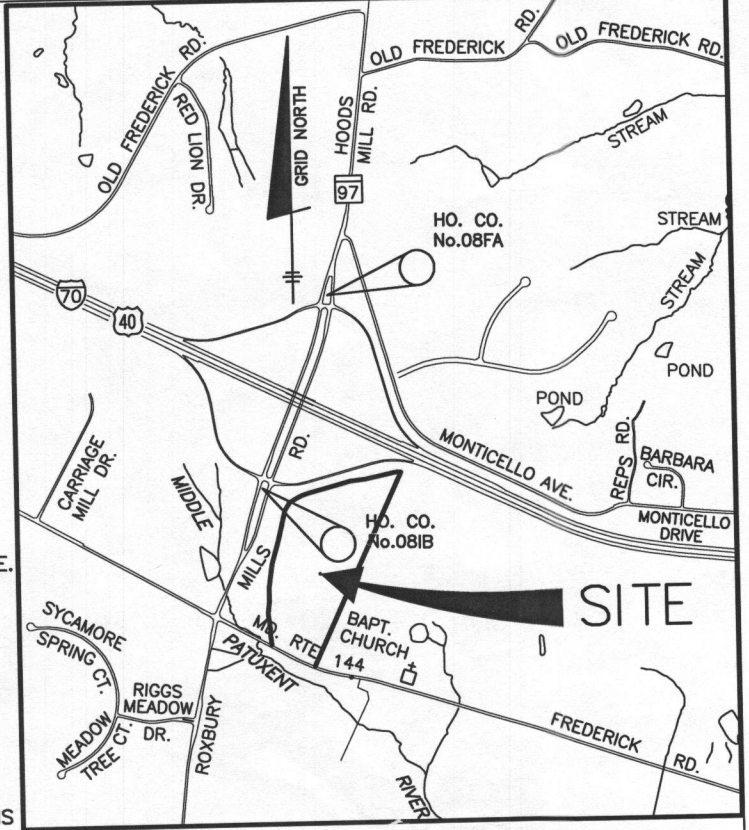
PLAN VIEW  
1" = 50'

**GENERAL NOTES**

- 1.) THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- 2.) THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 S.F. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
- 3.) UNLESS OTHERWISE SHOWN NO WELLS OR SEWERAGE EASEMENTS ARE LOCATED WITHIN 100 FEET OF THE PROPERTY.
- 4.) EXACT LENGTH OF SEPTIC TRENCHES IS TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
- 5.) TOPOGRAPHY SHOWN HEREON WAS PURCHASED FROM HOWARD COUNTY, GEOGRAPHICAL INFORMATION SYSTEMS BY BENCHMARK ENGINEERING, INC. AND FIELD VERIFIED BY BENCHMARK ENGINEERING, INC.
- 6.) THE WELL IS TO BE DRILLED PRIOR TO SUBMITTAL OF FINAL PLAT FOR SIGNATURE. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED 'GOVERNMENTAL DELAY' IF THE WELL DRILLING DELAYS THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
- 7.) GROUND WATER APPROPRIATION PERMIT SHALL BE OBTAINED PRIOR TO SUBMITTAL OF RECORD PLAT FOR SIGNATURE.
- 8.) ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- 9.) THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION IS TO REMOVE THE LOT 15 1500 SF WELL BOX, SHOW A DRILLED WELL AND TWO ALTERNATIVE LOCATIONS ON LOT 15 AND TO REVISE THE LOT 16 SEPTIC DISPOSAL AREA.

**LEGEND**

- SOILS CLASSIFICATION **CgC2**
- SOILS DELINEATION
- EXISTING CONTOURS (FIELD RUN)
- PROPOSED STRUCTURE
- PROPOSED WELL BOX
- EXISTING WELL BOX
- PROPOSED SEPTIC FIELD
- PROPOSED SEPTIC REVISION (ADDITION)
- EXISTING SEPTIC (TO BE REMOVED)
- PERCOLATION TEST PASSED
- PERCOLATION TEST FAILED
- ALTERNATE WELL LOCATION



**VICINITY MAP**

SCALE: 1"=2000'  
ADC MAP No. 4 GRID D-13

**SOILS LEGEND**

MAP SYMBOL	SOIL GROUP	SOIL TYPE
CgB2	B	CHESTER GRAVELLY SILT LOAM, 3 TO 8 % SLOPES, MODERATELY ERODED
EKB2	C	ELIOAK SILT LOAM, 3 TO 8 % SLOPES, MODERATELY ERODED

\* INDICATES HYDRIC SOILS  
TAKEN FROM SOILS SURVEY, ISSUED JULY 1968, MAP NO. 7

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 KNOWLEDGE AND BELIEF.

*John M. Carney* 2/16/16  
DATE:

PLAN PREPARER: JOHN M. CARNEY  
FOR BENCHMARK ENGINEERING, INC.  
**BENCHMARK**  
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS  
**ENGINEERING, INC.**  
8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315  
ELLICOTT CITY, MARYLAND 21043  
PHONE: 410-465-8105 FAX: 410-465-8644  
E-MAIL: bei@bei-civilengineering.com

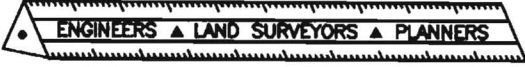
**VISTA RIDGE**  
LOTS 15 AND 16  
LOCATION: TAX MAP No. 8 - GRID No. 23  
PARCEL No. 176  
4th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: **REVISED PERCOLATION CERTIFICATION PLAN**  
DATE: APRIL 2016 PROJECT NO. 1490  
SEPTEMBER, 2016  
SCALE: 1" = 50' DRAWING 1 OF 1

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT  
*Barbara M. ...* 10/17/16  
COUNTY HEALTH OFFICER DATE:



# BENCHMARK



## ENGINEERING, INC.

8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043  
 410-465-6105 410-465-6644 (Fax)

### LETTER OF TRANSMITTAL

TO: Health Dept

DATE	<u>9/16/16</u>	PROJECT No.	<u>1635</u>
ATTENTION	<u>Scott Williams</u>		
RE:	<u>Vista Ridge Lot 16</u>		
	<u>2045 Drivers Lane</u>		

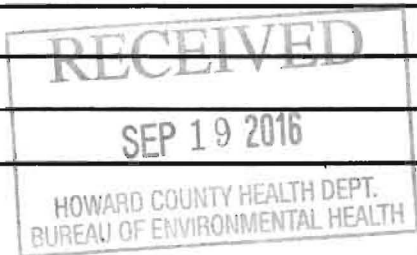
- WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items
- Photocopies  Prints  Originals  Samples
  - Specifications  Invoices  Change Order  Other \_\_\_\_\_

COPIES of	No. of SHEETS	DESCRIPTION
<u>3</u>	<u>1</u>	<u>Revised Perc Cert Lots 15 &amp; 16</u>
<u>3</u>	<u>2</u>	<u>Revised BAT Plan</u>

- THESE ARE TRANSMITTED as checked below
- For Comment  For your use  For Approval
  - For Review  As requested  Other \_\_\_\_\_

REMARKS: Email if you have questions.

John



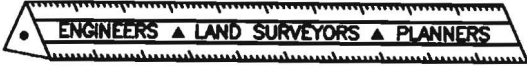
COPY TO: \_\_\_\_\_

RECEIVED BY: [Signature]

If enclosures are not as noted, kindly notify us at once.

SIGNED: [Signature]

# BENCHMARK



## ENGINEERING, INC.

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 410-465-6105 410-465-6644 (Fax)

### LETTER OF TRANSMITTAL

TO: Healy

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DATE	<u>7/15/16</u>	PROJECT No.	<u>1635</u>
ATTENTION	<u>Jeff Williams</u>		
RE:	<u>2045 Drovers Ln</u>		
	<u>Vista Ridge Lot 16</u>		

- WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items
- Photocopies       Prints       Originals       Samples  
 Specifications       Invoices       Change Order       Other \_\_\_\_\_

COPIES of	No. of SHEETS	DESCRIPTION
<u>3</u>	<u>2</u>	<u>BAT Plan Revised per Dana's comments</u>
<u>3</u>	<u>1</u>	<u>Revised Perc Cert Revised per Dana's comments</u>

THESE ARE TRANSMITTED as checked below

- For Comment       For your use       For Approval  
 For Review       As requested       Other \_\_\_\_\_

REMARKS: No LDP

Trenches for initial system = 224'

\_\_\_\_\_

\_\_\_\_\_

COPY TO: [Signature]

RECEIVED BY: \_\_\_\_\_

SIGNED: [Signature]

If enclosures are not as noted, kindly notify us at once.

# BENCHMARK



## ENGINEERING, INC.

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 410-465-6105 410-465-6644 (Fax)

### LETTER OF TRANSMITTAL

DATE	8.4.16	PROJECT No.	1635
ATTENTION	Dana Bernard		
RE:	Vista Ridge Lot 16		
	2045 Drovers Lane		

TO: Hea 14h

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- WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items
- Photocopies  Prints  Originals  Samples
  - Specifications  Invoices  Change Order  Other \_\_\_\_\_

COPIES of	No. of SHEETS	DESCRIPTION
3	2	Revised BAT Plan + Profile
3	1	Variance Request
3	1	Revised Perc Cert as previously submitted

- THESE ARE TRANSMITTED as checked below
- For Comment  For your use  For Approval
  - For Review  As requested  Other \_\_\_\_\_

REMARKS: Perc Cert Revision was submitted in April.

---

Owner will mail in original signature of Variance request

---

COPY TO: \_\_\_\_\_

RECEIVED BY: [Signature]

SIGNED: [Signature]

If enclosures are not as noted, kindly notify us at once.

# BENCHMARK



## ENGINEERING, INC.

8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043  
 410-465-6105 410-465-6644 (Fax)

### LETTER OF TRANSMITTAL

DATE	04-25-2016	PROJECT No.	1635
ATTENTION	DANA		
RE:	VISTA RIDGE - LOT 16		
	BAT SITE PLAN		

TO: DANA BERNARD  
A.D.CO. HEALTH DEPT.

WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items

Photocopies  Prints  Originals  Samples  
 Specifications  Invoices  Change Order  Other \_\_\_\_\_

COPIES of	No. of SHEETS	DESCRIPTION
3	2	BAT SITE / PROFILE & DETAILS
1	5	ARCHITECTURALS

THESE ARE TRANSMITTED as checked below

For Comment  For your use  For Approval  
 For Review  As requested  Other \_\_\_\_\_

REMARKS:

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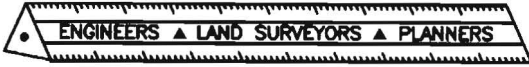


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COPY TO: \_\_\_\_\_  
 RECEIVED BY: [Signature]  
 If enclosures are not as noted, kindly notify us at once.

SIGNED: [Signature]

# BENCHMARK



## ENGINEERING, INC.

8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043  
 410-465-6105 410-465-6644 (Fax)

### LETTER OF TRANSMITTAL

DATE <u>4-5-2016</u>	PROJECT No. <u>1635</u>
ATTENTION <u>DANA</u>	
RE: <u>VISTA RIDGE</u>	
<u>-LOT 16-</u>	

TO: DANA BERNARD  
Howard County Health Dept.

- WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items
- Photocopies     Prints     Originals     Samples  
 Specifications     Invoices     Change Order     Other \_\_\_\_\_

COPIES of	No. of SHEETS	DESCRIPTION
<u>3</u>	<u>2</u>	<u>BAT &amp; BAT SITE</u>
<u>1</u>	<u>3</u>	<u>Architecturals - Basement / 1st Floor / 2nd Floor</u>

- THESE ARE TRANSMITTED as checked below
- For Comment     For your use     For Approval  
 For Review     As requested     Other \_\_\_\_\_

REMARKS:

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COPY TO: \_\_\_\_\_  
 RECEIVED BY: [Signature]  
If enclosures are not as noted, kindly notify us at once.

SIGNED: [Signature]

# BENCHMARK



## ENGINEERING, INC.

8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043  
 410-465-6105 410-465-6644 (Fax)

### LETTER OF TRANSMITTAL

DATE	APRIL 4, 2016	PROJECT No.	1635
ATTENTION			
RE:	Vista Ridge Lot 16		

TO: Ho Co Health Dept  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- WE ARE SENDING YOU
- Attached
  - Under separate cover via \_\_\_\_\_ the following items
  - Photocopies
  - Prints
  - Originals
  - Samples
  - Specifications
  - Invoices
  - Change Order
  - Other \_\_\_\_\_

COPIES of	No. of SHEETS	DESCRIPTION
3	1	Revised Perc Cert

- THESE ARE TRANSMITTED as checked below
- For Comment
  - For your use
  - For Approval
  - For Review
  - As requested
  - Other \_\_\_\_\_

REMARKS:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

COPY TO: \_\_\_\_\_  
 RECEIVED BY: J King  
If enclosures are not as noted, kindly notify us at once.

SIGNED: Beth Dodson

INITIAL SYSTEM		
Number of Bedrooms	5	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	6.5	ft
Bottom Max Depth	8	ft
Design Flow	750	gpd
Drainage Field square footage	937.5	sf
Sidewall reduction credit	0.71428571	
Trench width	3	
Effective Area Depth	1.5	
Linear Length of trench Required	<del>229</del>	lf

1st REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	7	ft
Bottom Max Depth	8	ft
Design Flow	750	gpd
Drainage Field square footage	937.5	sf
Sidewall reduction credit	0.83333333	
Trench width	3	
Effective Area Depth	1	
Linear Length of trench Required	<b>260</b>	lf

2nd REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	7	ft
Bottom Max Depth	8	ft
Design Flow	750	gpd
Drainage Field square footage	938	sf
Sidewall reduction credit	0.83333333	
Trench width	3	
Effective Area Depth	1	
Linear Length of trench Required	<b>260</b>	lf



## Freemon, Robert

---

**From:** John Carney <jcarney@bei-civilengineering.com>  
**Sent:** Wednesday, August 24, 2016 10:15 AM  
**To:** Freemon, Robert  
**Subject:** RE: 2045 Drovers Lane  
**Attachments:** VISTA RIDGE LOT 16 BAT site.pdf; Septic Trench.pdf

✓ Robert, the perc cert comment 1 was a mislabel on the area that was being removed. We were removed and added equal areas, just the text was wrong. It looks like the area will have to change anyways.

✓ Comment two, we have field verified the topo so I adjusted the note to reflect this.

✗ Comment 3 was addressed by adding note 9. *Added to BAT Plan not Perc Cert*

Comment 4 about the effective area is a major issue. Looking at the notes we have 1.5 or 2 foot of effective area for the upper holes (P-39 and P-74) but I see the concern about the same amount in the lower holes. I have some solutions that may require the well box to be adjusted and an alternative well site added. Attached are the computations and a sketch on the BAT plan, I will finish revising the piping and tank design etc. when we decide about the trench layout. If you could take a look I would appreciate it. We should discuss this over the phone. Trench 1-1 is 70', Trenches 1-2 and 1-3 are both 77'. Trenches 2-1, 2-2 and 2-3 are 86.7'. Trenches 3-1, 3-2, 3-3, 3-4 and 3-5 are 52'. Trench 3-5 is below the old bottom of the SRA.

✓ Comment 5 - The BAT site plan notes are already on page 2, please double check and verify. *Verified on 2nd Page*

Thanks, John

**From:** Freemon, Robert [<mailto:rfeemon@howardcountymd.gov>]  
**Sent:** Tuesday, August 23, 2016 1:27 PM  
**To:** John Carney <[jcarney@bei-civilengineering.com](mailto:jcarney@bei-civilengineering.com)>  
**Subject:** 2045 Drovers Lane

Hey John,

I have attached my comments for 2045 Drovers Lane. If you have any questions let me know.

**Robert Freemon**  
**Howard County Health Department**  
**8930 Stanford Blvd. Columbia, MD 21045**  
**Well and Septic Program**  
**Phone: 410-313-6357**  
**Email: [rfeemon@howardcountymd.gov](mailto:rfeemon@howardcountymd.gov)**



## Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

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

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

Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)

Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

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

---

### MEMORANDUM

TO: John Carney  
Benchmark Engineering, Inc  
8480 Baltimore National Pike  
Ellicott City, MD 21043

FROM: Robert Freemon *RIF*  
Well & Septic Program

RE: 2045 Drovers Lane  
Cooksville, MD 21723  
**Perc Cert & BAT Plan**

DATE: 8/22/16

---

I have reviewed the Percolation Certification plan and the BAT plan for 2045 Drovers Lane. Here are my comments:

- 1 • On the Perc Cert the SRA does not contain the 10,000sqft required. The portions being added and removed create a total of 9989sqft. In order to get the 10,000sqft one suggestion could be to keep the northern half of the labeled "Removal from S.R.A." portion. Another suggestion could be to add a small portion of SRA to the west side of Perc Hole 35 along contour.
- 2 • The Perc Cert note #5 needs to state who field verified the topography.
- 3 • In the Perc Cert Notes there needs to be a purpose statement for the Perc Certs revision.
- On the BAT plan the effective area is not between 6-8 feet. According to the spec sheet the effective area starts at 7 feet and ends at 8 feet.
- The BAT Plan does not have all of the required notes. I have attached the BAT Site Plan Requirements for your review.

Lot 16

Clerk of the Circuit Court for  
Howard County  
Land Records/Licensing

Vista  
Ridge

The Thomas Dorsey Building  
9250 Bendix Road  
Columbia, MD 21045  
410-313-5850

=====  
LR - Agreement Recording Fee  
1x 20.00 20.00

Grantor/Grantee Name: Sturgis  
Reference/Control #: 69

=====  
LR - Agreement Surcharge  
1x 40.00 40.00

=====  
SubTotal: 60.00  
Total: 60.00

=====  
REV-Check-BOA 60.00  
Number : 220118

05/13/2016 12:57 CC13-LS  
#6137859 /1247/109

~ Thank you for visiting us today ~

Stub 1 of

CO





Bureau of Environmental Health  
 8930 Stanford Boulevard, Columbia, MD 21045  
 Main: 410-313-2640 | Fax: 410-313-2648  
 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

**APPLICATION FOR VARIANCE  
 TO COMAR ONSITE WATER/SEWER FOR MDE APPROVAL**

Date Submitted \_\_\_\_\_  
 2045 Drovers Lane, Cooksville, MD 21723

Property Address					
Vista Ridge	16	8	23	p/o 176	04-595485
Subdivision	Lot	Tax Map	Grid	Parcel	Tax Account #

Provide a brief site history including previously submitted and active plans with the Health Department or the County (subdivision plans, perc test applications, Building Permit applications):  
 Plat was recorded as references 22430-22435 on 6/7/13 based on the original percolation certification plan. Building Permit was issued on 5/18/16. Septic Area and Well boc were adjsuted on a Revised Percolation Certification submitted on 4/4/16.

In the area below, list the specific section of the Code of Maryland Regulations (COMAR) to which a variance is being requested and provide a brief summary of the regulation and an explanation of why the variance is being requested (Attach a separate sheet if necessary).

Regulation Section	Summary and Explanation
1. 3.808(c)	Howard County Code requires 10' from the septic easement to the property line. The buildable depth of this lot was very restricted due to the setback to the septic area. The septic area was adjusted to include the relocation 5' towards the rear property line. The new septic does not have any impact on any wells or septic, see revised plan.
2.	

\_\_\_\_\_  
 Property Owner's Signature

**Health Department Use Only**

Reviewed by \_\_\_\_\_  
 HCHD Staff \_\_\_\_\_ Date \_\_\_\_\_

Recommendation:     Recommended     Not Recommended

\_\_\_\_\_ Date \_\_\_\_\_  
 HCHD Supervisor

Comments/Conditions: \_\_\_\_\_  
 \_\_\_\_\_

Approved by: \_\_\_\_\_  
 MDE Representative \_\_\_\_\_ Date \_\_\_\_\_