



Howard County  
Health Department

# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

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

AP 558744

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

DATE 6-2-12

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 \_\_\_\_\_ 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) Riley Fenlon

DAYTIME PHONE 240-417-3772 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 13471 Triadelphia Mill Rd Clarksville MD 21029  
STREET CITY/TOWN STATE ZIP

APPLICANT Riley Fenlon

DAYTIME PHONE 240-417-3772 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 13471 Triadelphia Mill Rd Clarksville MD 21029  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME TM 34 Par 213 LOT NO. N/A

PROPERTY ADDRESS 13471 Triadelphia Mill Rd Clarksville MD 21029  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 34 GRID 2 PARCEL(S) 213 PROPOSED LOT SIZE 1.98AC

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 \_\_\_\_\_

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H

REMARKS \_\_\_\_\_

SANITARIAN \_\_\_\_\_ BACKHOE \_\_\_\_\_ OTHERS \_\_\_\_\_

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

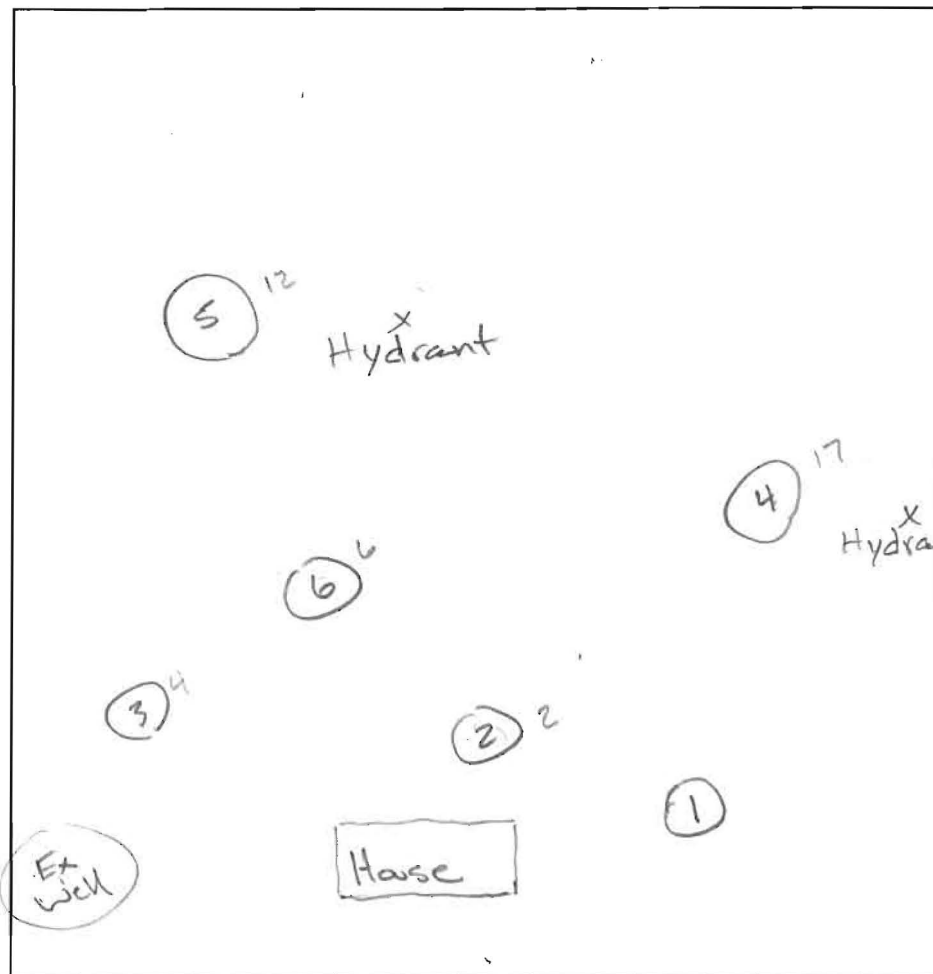
TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE S/W \_\_\_\_\_

RECEIVED  
JUN 02 2016  
HOWARD COUNTY HEALTH DEPT.  
BUREAU OF ENVIRONMENTAL HEALTH

#3  
brl  
2' - yel scl  
4' - pale red fsl micaceous  
12' - dry

#6  
brl  
yel tan scl  
3.4' - pale red fsl many mica dry  
12'

#4  
0.4' - brl Or scl  
3' - yel sl w/mica  
4' - pale red sl micaceous  
13'



#15  
0.4' - brl  
4' - yel scl  
pale red fsl  
many mica  
dry  
13'

#2  
Similar to #1

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6/28	3	4 / 12	8:42	8:44	8:45	4	P
	6	3.5 / 12	8:49	8:52	8:58	6	P
	4	3 / 13	9:00	9:11	9:28	17	P
	5	2.5 / 13.5	9:15	9:20	9:32	12	P
	2	3 / 15	9:39	9:41	9:43	2	P
	1	3 / 13	9:45	9:47	9:52	5	P

#1  
0.5' - brl pale red scl  
3' - yel sl  
7' - tan sl many mica  
dry  
13'

REMARKS Couldn't find locate the dry well  
 SANITARIAN H. Oswalt BACKHOE S. Freeman OTHERS SM Fenlon Plumbin  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_



## 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

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

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July 5, 2016

To: Riley Fenlon (Owner/Applicant); John Carney (Benchmark Engineering Inc.)

Percolation Test Report; 13471 Triadelphia Mill Road, Clarksville, MD 21029

Percolation tests were conducted at 13471 Triadelphia Mill Road (Tax Map 34, Parcel 213) on June 28, 2016. Tests and profile descriptions were documented for 6 locations (1, 2, 3, 4, 5 & 6). All test holes passed. Since test hole 4 was repositioned away from the trees, it must be field located. Also, please field-locate and include the existing septic tank and drywell on the plan along with the two water hydrants to be removed.

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 the septic reserve area are represented by test locations having satisfactory soil condition. The area must be at least 10,000 square feet and large enough to accommodate 3 systems for the planned residence.

The next step in the process is to have an engineer/consultant submit a percolation certification plan to confirm the design of the septic reserve area.

Should you have any questions regarding this evaluation, please contact me. I may be reached at (410) 313-1786 or by email [hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)

Respectfully,

*Hank Oswald*

Hank Oswald, L.E.H.S  
Bureau of Environmental Health  
Well & Septic Program

Attachment: Percolation Field Notes



## Williams, Jeffrey

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**From:** Williams, Jeffrey  
**Sent:** Wednesday, August 17, 2016 1:50 PM  
**To:** Steven Krieg -MDE- (steven.krieg@maryland.gov)  
**Cc:** Oswald, Hank  
**Subject:** Variance request 13471 Triadelphia Rd  
**Attachments:** 20160817135125217.pdf

Sgeve; see attached variance request. This is a proposed house addition. They will be replacing existing system. Soils were standard SL to 12'. No rock, no water, 0.8 rate. Thanks  
Jeff

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)

### CONFIDENTIALITY NOTICE

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## Oswald, Hank

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**From:** Oswald, Hank  
**Sent:** Wednesday, June 15, 2016 8:19 AM  
**To:** 'riley fenlon'; John Carney  
**Subject:** RE: Fenlon Property, 13471 Triadelphia Mill Road

Riley:

6/28 - confirmed. The contractor may start digging the holes before I arrive but I should be there between 8-830 a.m. The holes are dug with a backhoe that's capable of digging a hole 12 feet in depth. Who will be the contractor?

Hank

**From:** riley fenlon [<mailto:rfenlon0@gmail.com>]  
**Sent:** Tuesday, June 14, 2016 5:07 PM  
**To:** Oswald, Hank; John Carney  
**Subject:** Re: Fenlon Property, 13471 Triadelphia Mill Road

Hank,

Thanks for quick turn around. We are available to perform the tests 6/28. Just to confirm, we must dig the holes the day of the tests, correct? i.e. We cannot drill the holes before 6/28?

John,

When are you available to stake the test sites? And will you need me to be around to stake the sites?

Thanks again!

On Tue, Jun 14, 2016 at 2:24 PM Oswald, Hank <[hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)> wrote:

John:

That is correct.

Hank

---

**From:** John Carney [<mailto:jcarney@bei-civilengineering.com>]  
**Sent:** Tuesday, June 14, 2016 2:07 PM

---

**To:** Oswald, Hank

**Cc:** 'riley fenlon'

**Subject:** RE: Fenlon Property, 13471 Triadelphia Mill Road

Hank, the easement you are referring to is the gas main and fiber optic easement - correct? John

**From:** Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]

**Sent:** Tuesday, June 14, 2016 1:48 PM

**To:** John Carney <[jcarney@bei-civilengineering.com](mailto:jcarney@bei-civilengineering.com)>

**Cc:** 'riley fenlon' <[rflenlon0@gmail.com](mailto:rflenlon0@gmail.com)>

**Subject:** RE: Fenlon Property, 13471 Triadelphia Mill Road

Hi John and Riley:

I am available to conduct percolation tests on June 28, 29 or 30<sup>th</sup>. Please choose a day and get back to me as soon as possible. The test holes will need to be properly labeled & staked and the owner will be responsible for hiring a septic contractor to dig the percolation test holes. Also, I would like the easement staked as well so we don't accidentally dig in the area.

Thanks,

Hank

---

**From:** John Carney [<mailto:jcarney@bei-civilengineering.com>]

**Sent:** Tuesday, June 07, 2016 12:11 PM

**To:** Oswald, Hank

**Cc:** 'riley fenlon'

**Subject:** RE: Fenlon Property, 13471 Triadelphia Mill Road

Hank, the attached exhibit shows the passing perc tests on the neighboring property. To address your comment #4. do we still need to move perc test 4 to the corner location you specified? The property boundary we have shown is based on information gathered during the boundary survey for Brighton Mill I and II. The dashed lines are the easement and the gas main that clip the corner of the property. We'll add labels. You can give me and Riley the perc dates, I copied him on this email. John

Columbia, MD 21045

410.313.1786 (Office)

410.313.2648 (Fax)

**From:** Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]  
**Sent:** Tuesday, June 07, 2016 11:55 AM  
**To:** John Carney ([jcarney@bei-civilengineering.com](mailto:jcarney@bei-civilengineering.com)) <[jcarney@bei-civilengineering.com](mailto:jcarney@bei-civilengineering.com)>  
**Subject:** Fenlon Property, 13471 Triadelphia Mill Road

Hi John:

The following comments apply to the Percolation Test Plan submitted for Fenlon Property, 13471 Triadelphia Mill Road:

- 1.) Correct soil classification in Legend to match plan (i.e. GgB and MaC).
- 2.) Correct shape of property boundary to match SDAT unless supported by explanation. (See attachment)
- 3.) Define the dotted lines running through the property near SDA on the plan (See attachment)    —    —    —    —    —    —
- 4.) Add extra perc test hole to corner of proposed SDA. (See attachment)
- 5.) Who do I contact to schedule the perc? Is there an email address?

Should you have any questions, please don't hesitate to ask.

Thanks,

Hank

Hank Oswald, L.E.H.S.

Howard County Health Department

Bureau of Environmental Health

Well & Septic Program

8930 Stanford Boulevard

## Oswald, Hank

---

**From:** Oswald, Hank  
**Sent:** Tuesday, July 05, 2016 2:09 PM  
**To:** 'riley fenlon' (rfenlon0@gmail.com)  
**Cc:** John Carney (jcarney@bei-civilengineering.com)  
**Subject:** Perc Test Results\_13471 Triadelphia Mill Road  
**Attachments:** Perc Test Report\_13471 Triadelphia Mill Road\_6.28..16.pdf; Perc Test Notes\_13471.pdf

Attached, please find the perc test results for 13471 Triadelphia Mill Road. Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank

Hank Oswald, L.E.H.S.  
Howard County Health Department  
Bureau of Environmental Health  
Well & Septic Program  
8930 Stanford Boulevard  
Columbia, MD 21045  
410.313.1786 (Office)  
410.313.2648 (Fax)

## Oswald, Hank

---

**From:** Oswald, Hank  
**Sent:** Tuesday, June 28, 2016 3:28 PM  
**To:** 'riley fenlon' (rfenlon0@gmail.com)  
**Cc:** John Carney (jcarney@bei-civilengineering.com)  
**Subject:** Drywell Location

Hi Riley:

I finalized the perc test results/letter and submitted them for review so you should have them shortly.

As for the drywell, I consulted with my boss on this. He said that you will need to probe around (but not dig up too much) to see how large it is. The tank and the drywell plus potential trench will need to be shown on the plan. This area will also not be usable.

Should you still have questions, please don't hesitate to ask.

Thanks,

Hank

Hank Oswald, L.E.H.S.  
Howard County Health Department  
Bureau of Environmental Health  
Well & Septic Program  
8930 Stanford Boulevard  
Columbia, MD 21045  
410.313.1786 (Office)  
410.313.2648 (Fax)

## Oswald, Hank

---

**From:** John Carney <jcarney@bei-civilengineering.com>  
**Sent:** Tuesday, June 07, 2016 12:11 PM  
**To:** Oswald, Hank  
**Cc:** 'riley fenlon'  
**Subject:** RE: Fenlon Property, 13471 Triadelphia Mill Road  
**Attachments:** 1011 PERC TEST (1).pdf

Hank, the attached exhibit shows the passing perc tests on the neighboring property. To address your comment #4. do we still need to move perc test 4 to the corner location you specified? The property boundary we have shown is based on information gathered during the boundary survey for Brighton Mill I and II. The dashed lines are the easement and the gas main that clip the corner of the property. We'll add labels. You can give me and Riley the perc dates, I copied him on this email. John

**From:** Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]  
**Sent:** Tuesday, June 07, 2016 11:55 AM  
**To:** John Carney ([jcarney@bei-civilengineering.com](mailto:jcarney@bei-civilengineering.com)) <[jcarney@bei-civilengineering.com](mailto:jcarney@bei-civilengineering.com)>  
**Subject:** Fenlon Property, 13471 Triadelphia Mill Road

Hi John:

The following comments apply to the Percolation Test Plan submitted for Fenlon Property, 13471 Triadelphia Mill Road:

- 1.) Correct soil classification in Legend to match plan (i.e. GgB and MaC).
- 2.) Correct shape of property boundary to match SDAT unless supported by explanation. (See attachment)
- 3.) Define the dotted lines running through the property near SDA on the plan (See attachment) \_\_\_\_ \_
- 4.) Add extra perc test hole to corner of proposed SDA. (See attachment)
- 5.) Who do I contact to schedule the perc? Is there an email address?

Should you have any questions, please don't hesitate to ask.

Thanks,

Hank

Hank Oswald, L.E.H.S.  
Howard County Health Department  
Bureau of Environmental Health  
Well & Septic Program  
8930 Stanford Boulevard  
Columbia, MD 21045  
410.313.1786 (Office)  
410.313.2648 (Fax)



# 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  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DATE	<u>7/12/16</u>	PROJECT No.	<u>2777</u>
ATTENTION	<u>Hank Oswald</u>		
RE:	<u>13471 Triadelphia Mill Rd</u>		
	<u>Perc Cert</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>Perc Cert</u>

THESE ARE TRANSMITTED as checked below

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

REMARKS: SRA is 10,000 SF or greater.  
Existing Tank & Trench is shown as best  
possible. One hydrant is shown per  
field location. The other hydrant has  
been removed already (verified by field visit)  
and marked so. New test location #4  
is shown.

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

RECEIVED BY: [Signature]

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

SIGNED: John Carney

# 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

DATE <u>June 1, 2016</u>	PROJECT No. <u>2777</u>
ATTENTION	
RE: <u>Fenlon Property</u>	
<u>Parcel 213</u>	
<u>Perc Testing</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>24x36 Perc Test Plan</u>
<u>1</u>		<u>Application</u>

THESE ARE TRANSMITTED as checked below

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

REMARKS:

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

RECEIVED BY: [Signature]

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

SIGNED: Beth Dodson

# 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>June 9, 2016</u>	PROJECT No. <u>2777</u>
ATTENTION	
RE: <u>Fenlon Property</u>	
<u>Perc Test Plan</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>18x24 Perc Test Plan</u>

THESE ARE TRANSMITTED as checked below

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

REMARKS:

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

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

SIGNED: Beth Dalsen

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

TO: Health Dept

DATE <u>9/12/16</u>	PROJECT No. <u>277027</u>
ATTENTION <u>Hank Oswald</u>	
RE: <u>Fenlon</u>	
<u>13471 Tridelpha Mill Rd</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>Per Cert For Signature</u>
<u>3</u>	<u>2</u>	<u>BAT Plan</u>

THESE ARE TRANSMITTED as checked below

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

REMARKS: This is a re-model so  
no architectural plans are  
available. Please contact owner  
to verify bedrooms.  
John

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

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

SIGNED: John Cray

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

## Oswald, Hank

---

**From:** Oswald, Hank  
**Sent:** Monday, July 25, 2016 3:18 PM  
**To:** John Carney (jcarney@bei-civilengineering.com)  
**Cc:** 'riley fenlon' (rfenlon0@gmail.com)  
**Subject:** Perc Cert Plan\_Fenlon Property  
**Attachments:** Variance application-interactive.pdf

Hi John:

The Perc Cert Plan for the Fenlon Property has been reviewed with the following comments:

- 1.) Change note #5 to read, All wells and septic systems located within 100 feet of the property boundaries and 200 feet down gradient of any wells and/or septic systems have been shown.
- 2.) There is a well located down gradient of the proposed private sewage easement. The property owner will have to complete a Variance application (attached). Hold off on revising the plan until we receive an answer from MDE about the down gradient well. A Variance note will eventually have to be added to the plan as well.

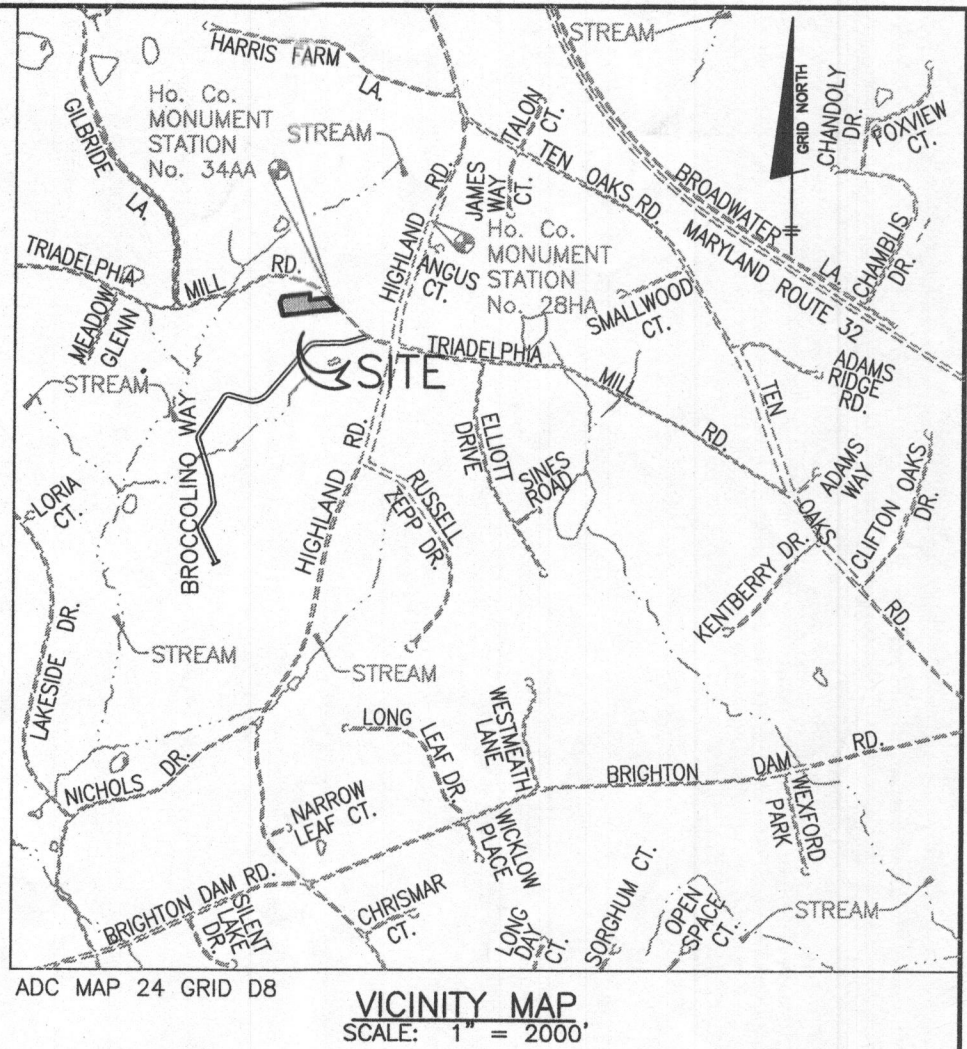
Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank

Hank Oswald, L.E.H.S.  
Howard County Health Department  
Bureau of Environmental Health  
Well & Septic Program  
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Columbia, MD 21045  
410.313.1786 (Office)  
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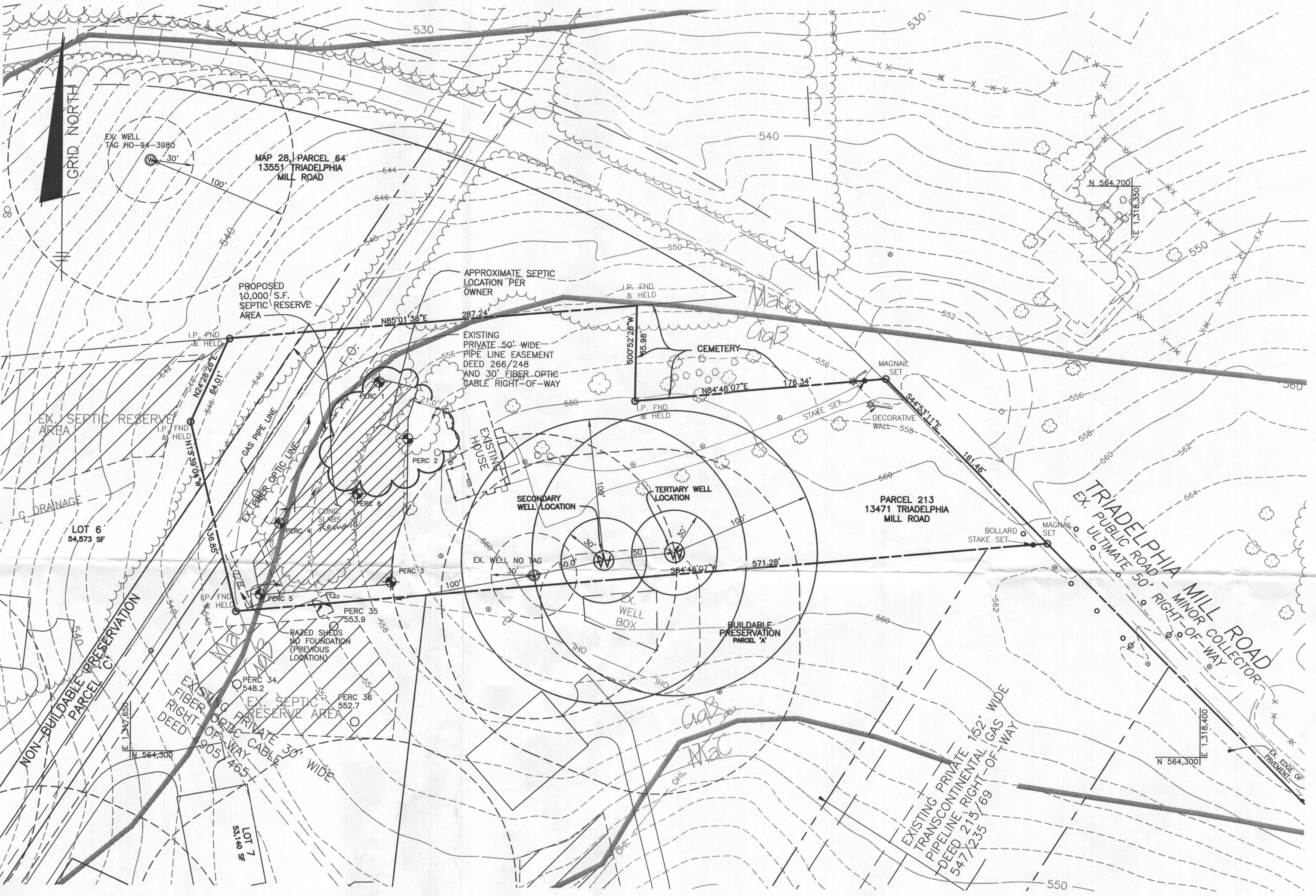
BENCHMARK INFORMATION NAD83	
Ho. Co. STATION 28HA STAMPED DISC SET ON TOP OF CONCRETE COLUMN 14.2' EAST OF THE EDGE OF PAVING FOR HIGHLAND ROAD AND 29.0' NORTH OF BG&E POLE No. 334568 NORTHING: 565347.937' EASTING: 1319266.269' ELEVATION: 588.708'	Ho. Co. STATION 34AA STAMPED DISC SET ON TOP OF CONCRETE COLUMN 7.4' SOUTH OF THE EDGE OF PAVING FOR TRIADELPHIA MILL ROAD AND 57.2' EAST OF C&P POLE NUMBER 32 NORTHING: 564468.943' EASTING: 1318257.375' ELEVATION: 561.105'

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 AT LEAST 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.) EXACT LENGTH OF SEPTIC TRENCHES IS TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
- 4.) THE EXISTING TOPOGRAPHY SHOWN IS TAKEN FROM AN AERIAL SURVEY WITH TWO-FOOT CONTOUR INTERVALS PREPARED BY WINGS INC. DATED DECEMBER, 2002, SUPPLEMENTED WITH RECORD DRAWINGS AND SOME FIELD RUN TOPOGRAPHY BY BENCHMARK ENGINEERING, INC., DATED MAY, 2015. OFF-SITE AREAS HAVE BEEN SUPPLEMENTED WITH HO. CO. GIS TOPOGRAPHICAL INFORMATION.
- 5.) THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
- 6.) THE PURPOSE FOR THIS PERCOLATION TEST PLAN IS TO CREATE A SEWAGE DISPOSAL EASEMENT IN SUPPORT OF A BUILDING PERMIT APPLICATION FOR A BUILDING ADDITION.
- 7.) ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.

LEGEND

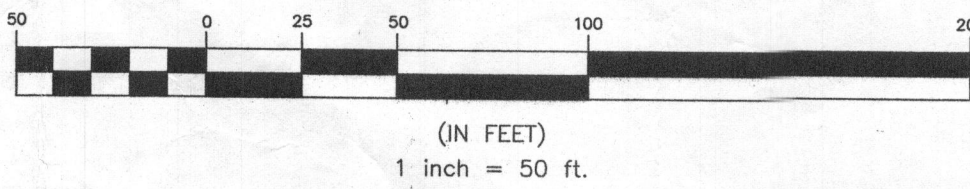
- SOILS CLASSIFICATION *MaC*
- SOILS DELINEATION
- EXISTING CONTOURS
- EXISTING STRUCTURE
- PROPOSED SEPTIC FIELD
- EXISTING SEPTIC FIELD
- EXISTING WELL
- PROPOSED WELL
- PERCOLATION TEST
- PASSING PERCOLATION TEST (1/14/15)
- EXISTING WOODS LINE



PLAN  
SCALE: 1" = 50'

SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND				
SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME
GgB		B		GLENELG LOAM, 3 TO 8 PERCENT SLOPES
MaC		B		MANOR LOAM, 8 TO 15 PERCENT SLOPES

\* INDICATES HYDRIC SOILS  
\*\* HIGHLY ERODIBLE, K>0.35, AND/OR 15% OR GREATER SLOPES  
TAKEN FROM THE NRCS WEB SOIL SURVEY, AUGUST 2014. SHEET 16



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.

PLAN PREPARER  
JOHN CARNEY, P.E.  
FOR BENCHMARK ENGINEERING INC.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT

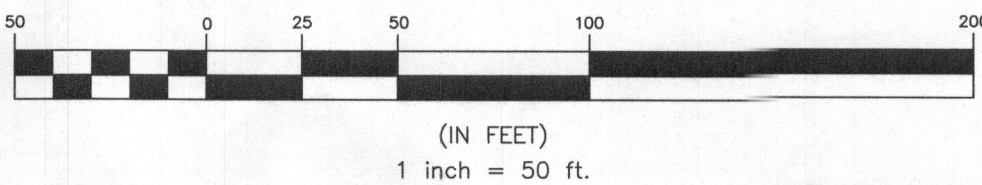
HOWARD COUNTY HEALTH OFFICER DATE

NO.		DATE		REVISION	
<b>BENCHMARK</b> ENGINEERS & LAND SURVEYORS & PLANNERS <b>ENGINEERING, INC.</b> 8480 BALTIMORE NATIONAL PIKE & SUITE 315 • ELICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 WWW.BE-CIVILENGINEERING.COM				13471 Triadelphia Mill Rd	
OWNER:		FENLON PROPERTY PARCEL 213			
RILEY FENLON 13271 TRIADELPHIA MILL ROAD CLARKSVILLE, MD 21029 240-417-3772		TAX MAP: 34 - GRID: 2 - PARCEL: 213 ZONED: RR-DEO ELECTION DISTRICT NO. 5 - HOWARD COUNTY, MARYLAND			
PERCOLATION TESTING PLAN					
DATE: JUNE, 2016		BEI PROJECT NO. 2777			
DESIGN: JC		DRAFT: EDD		SCALE: AS SHOWN	
				SHEET 1 OF 1	



SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND				
SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME
GgB		B		GLENELG LOAM, 3 TO 8 PERCENT SLOPES
MaC		B		MANOR LOAM, 8 TO 15 PERCENT SLOPES
				k-VALUE
				0.2
				0.24

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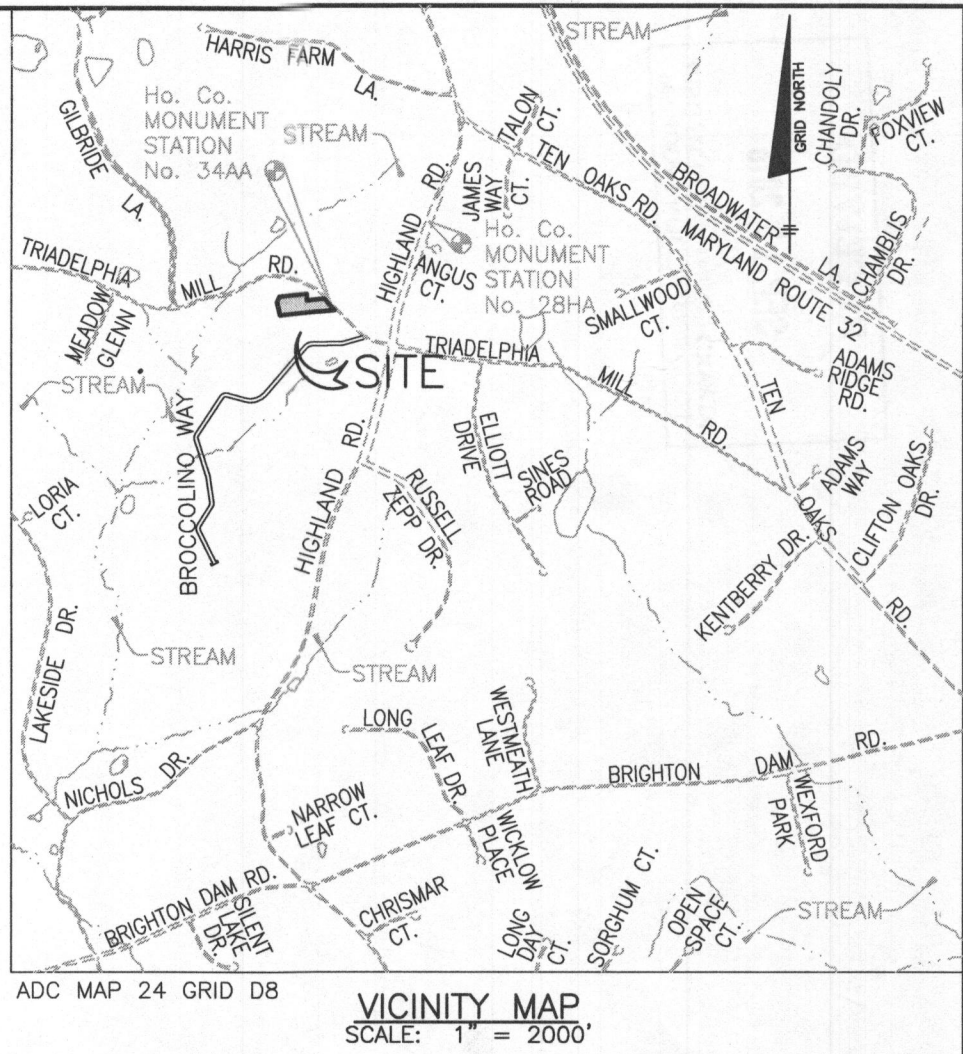
*John M. Carney* 9/12/16  
 PLAN PREPARER  
 JOHN CARNEY, P.E.  
 FOR BENCHMARK ENGINEERING INC.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.  
 HOWARD COUNTY HEALTH DEPARTMENT

*Michael J. Davis* 9/23/16  
 HOWARD COUNTY HEALTH OFFICER DATE 1780

## LEGEND

- SOILS CLASSIFICATION MaC  
 SOILS DELINEATION  
 EXISTING CONTOURS 480 478  
 EXISTING STRUCTURE  
 PROPOSED SEPTIC FIELD  
 EXISTING SEPTIC FIELD  
 EXISTING WELL EX. WELL  
 PROPOSED WELL  
 PASSING PERCOLATION TEST (6/28/16)  
 PASSING PERCOLATION TEST (1/14/15)  
 EXISTING WOODS LINE  
 WATER SPOUT



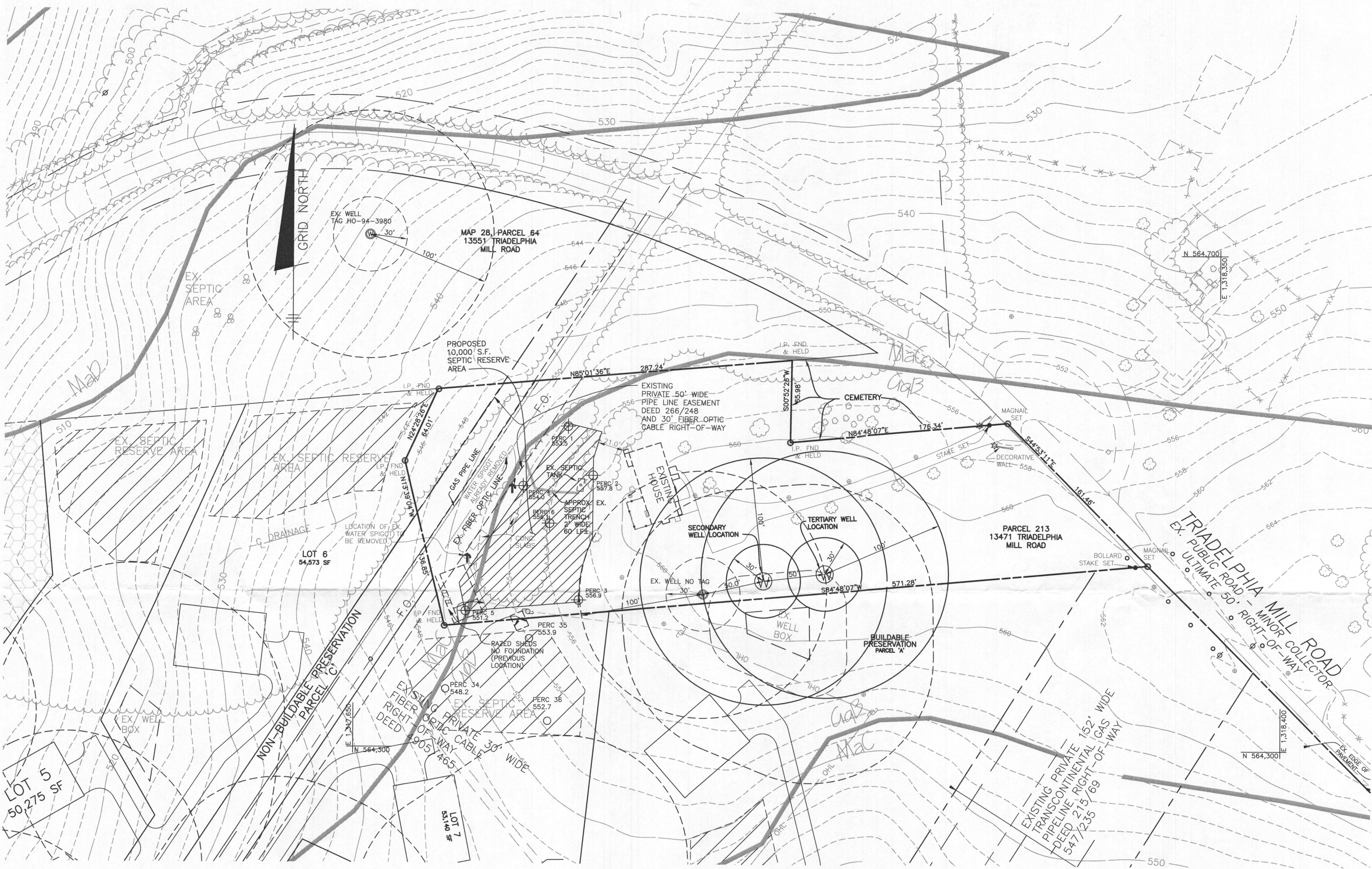
BENCHMARK INFORMATION NAD83	
Ho. Co. STATION 28HA STAMPED DISC SET ON TOP OF CONCRETE COLUMN 14.2' EAST OF THE EDGE OF PAVING FOR HIGHLAND ROAD AND 29.0' NORTH OF BG&E POLE No. 334368 NORTHING: 565347.937' EASTING: 1319266.269' ELEVATION: 588.708'	Ho. Co. STATION 34AA STAMPED DISC SET ON TOP OF CONCRETE COLUMN 7.4' SOUTH OF THE EDGE OF PAVING FOR TRIADELPHIA MILL ROAD AND 57.2' EAST OF C&P POLE NUMBER 32. NORTHING: 564468.943' EASTING: 1318257.375' ELEVATION: 561.105'

## GENERAL NOTES

- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 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.
- EXACT LENGTH OF SEPTIC TRENCHES IS TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
- THE EXISTING TOPOGRAPHY SHOWN IS TAKEN FROM AN AERIAL SURVEY WITH TWO-FOOT CONTOUR INTERVALS PREPARED BY WINGS INC. DATED DECEMBER, 2002, SUPPLEMENTED WITH RECORD DRAWINGS AND SOME FIELD RUN TOPOGRAPHY BY BENCHMARK ENGINEERING, INC., DATED MAY, 2015. OFF-SITE AREAS HAVE BEEN SUPPLEMENTED WITH HO. CO. GIS TOPOGRAPHICAL INFORMATION.
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND 200 FEET DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
- THE PURPOSE FOR THIS PERCOLATION TEST PLAN IS TO CREATE A SEWAGE DISPOSAL EASEMENT IN SUPPORT OF A BUILDING PERMIT APPLICATION FOR A BUILDING ADDITION.
- ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THE EXISTING SEPTIC TANK AND TRENCH ARE TO BE ABANDONED PRIOR TO THE ISSUANCE FOR A NEW BUILDING PERMIT. THE ONE REMAINING WATER HYDRANT MUST BE REMOVED PRIOR TO SEPTIC PERMIT ISSUANCE.
- ON 8/18/16 A VARIANCE REQUEST WAS CONDITIONALLY APPROVED BY MDE. THE VARIANCE REQUEST WAS TO COMAR SECTION 26.04.02.05(B)(2) TO ALLOW A WELL BELOW THE PROPOSED SEPTIC SYSTEM. THE CONDITION OF APPROVAL WAS THAT A BAT UNIT BE REQUIRED ON THE SEPTIC SYSTEM FOR THIS PARCEL.
- Replacement of the existing septic system to include a BAT unit will be required prior to Health Department approval of the building permit. u.o.

NO.	DATE	REVISION
<b>BENCHMARK</b> ENGINEERS • LAND SURVEYORS • PLANNERS <b>ENGINEERING, INC.</b> 8480 BALTIMORE NATIONAL PIKE & SUITE 315 • ELICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 WWW.BE-CIVILENGINEERING.COM		
OWNER:	<b>FENLON PROPERTY</b> PARCEL 213 RILEY FENLON 13471 TRIADELPHIA MILL ROAD CLARKSVILLE, MD 21029 240-417-3772	
TAX MAP: 34 - GRID: 2 - PARCEL: 213 ZONED: RR-DEO ELECTION DISTRICT NO. 5 - HOWARD COUNTY, MARYLAND		
<b>PERCOLATION CERTIFICATION PLAN</b>		
DESIGN: JC	DRAFT: EDD	DATE: SEPTEMBER, 2016 SCALE: AS SHOWN SHEET 1 OF 1

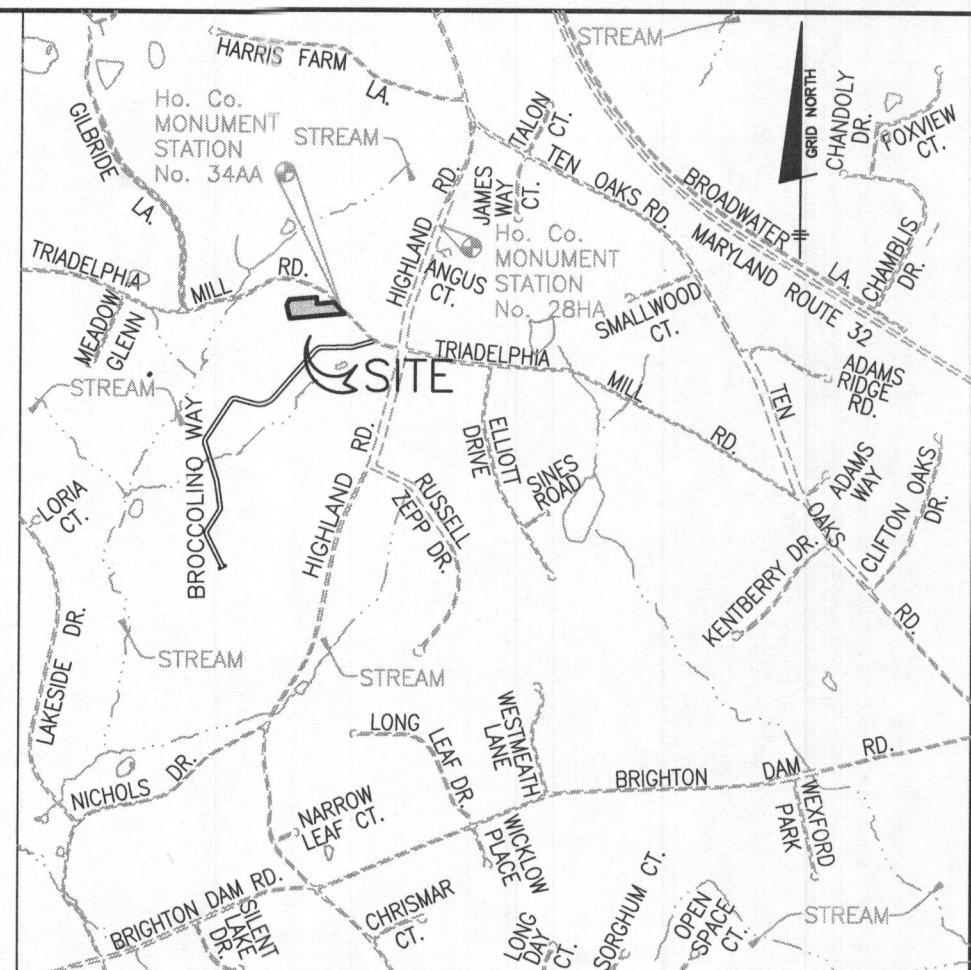




PLAN  
SCALE: 1" = 50'

## LEGEND

SOILS CLASSIFICATION	Mac
SOILS DELINEATION	480
EXISTING CONTOURS	478
EXISTING STRUCTURE	
PROPOSED SEPTIC FIELD	
EXISTING SEPTIC FIELD	
EXISTING WELL	EX. WELL
PROPOSED WELL	
PASSING PERCOLATION TEST (6/28/16)	
PASSING PERCOLATION TEST (1/14/15)	
EXISTING WOODS LINE	
WATER SPOUT	



ADC MAP 24 GRID DB  
VICINITY MAP  
SCALE: 1" = 2000'

## BENCHMARK INFORMATION NAD83

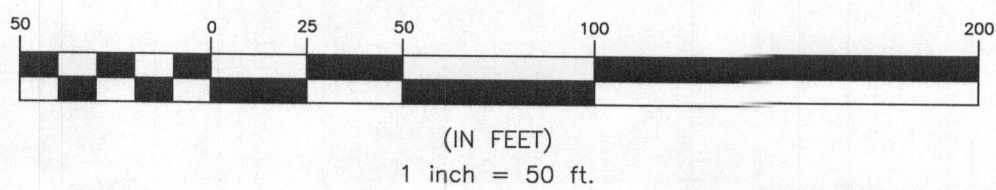
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PLAN PREPARER  
JOHN CARNEY, P.E.  
FOR BENCHMARK ENGINEERING INC.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER u.o.  
DATE: 9/29/16

NO.	DATE	REVISION
BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 WWW.BEI-CIVILENGINEERING.COM		
OWNER: RILEY FENLON 13471 TRIADOLPHIA MILL ROAD CLARKSVILLE, MD 21029 240-417-3772		FENLON PROPERTY PARCEL 213 TAX MAP: 34 - GRID: 2 - PARCEL: 213 ZONED: RR-DEO ELECTION DISTRICT NO. 5 - HOWARD COUNTY, MARYLAND
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DESIGN: JC	DRAFT: EDD	DATE: SEPTEMBER, 2016 SCALE: AS SHOWN
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