

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 PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME 7156 Mink Hollow Road

PROPERTY ADDRESS 7156 Mink Hollow Rd Highland MD 20777

TAX ACCOUNT # 05-362733 TAX MAP 40 GRID 11 PARCEL 11 LOT NO. - PROPOSED LOT SIZE (ACRES) 1.0

ZONING CATEGORY RR-DEOTIER III

PROPERTY OWNER(S) Elm Tree LLC

DAYTIME PHONE 443-878-2361 CELL 443-878-2361 EMAIL MTCARELM@gmail.com

MAILING ADDRESS 4994 Windpower Way Ellicott City, MD 21043

APPLICANT Benchmark Engineering RELATIONSHIP TO OWNER: Engineer

DAYTIME PHONE 410-465-6105 CELL - EMAIL jcarney@bci-civilengineering.com

MAILING ADDRESS 8480 Baltimore National Pk Ellicott City, MD 21043

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

PROPERTY:

- PROPERTY: SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: SUBDIVISION CLASSIFICATION (PER DEPT. OF PLANNING AND ZONING) MAJOR MINOR CONSTRUCT NEW OSDS ON UNDEVELOPED LOT REPAIR OR REPLACE FAILING OSDS UPGRADE EXISTING OSDS

BUILDING:

- BUILDING: RESIDENTIAL WITH 4 EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

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.

SIGNATURE OF APPLICANT

DATE 10/5/15

AP \_\_\_\_\_

Empty rectangular box for notes or data.

Large empty rectangular box for drawing or detailed notes.

Empty rectangular box for notes or data.

Empty rectangular box for notes or data.

Empty rectangular box for notes or data.

Empty rectangular box for notes or data.

Empty rectangular box for notes or data.

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

RECEIVED  
 OCT 12 2017  
 HONOLULU DEPARTMENT OF PUBLIC HEALTH

REMARKS \_\_\_\_\_  
 SANITARIAN \_\_\_\_\_ BACKHOE \_\_\_\_\_ OTHERS \_\_\_\_\_  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_



# HOWARD COUNTY HEALTH DEPARTMENT

61549

DATE 10/17/17

A5

Received From

Elm Thread LLC

PHONE #

410-388-2361

For

Perc app/756 York/Hellaw Ct.

CASH

CHECK

NO.

1042

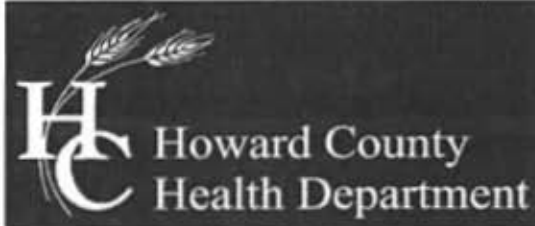
Five hundred and 00/100 Dollars

\$

500.00

Received By

[Signature]



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

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

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October 26, 2017

To: Elm Three LLC (Owner); Benchmark (Engineer)

Percolation Test Report; 7156 Mink Hollow Road

Percolation tests were conducted at 7156 Mink Hollow Road (Tax Map 40, Grid 11, and Parcel 11) on October 26, 2017. Tests and profile descriptions were documented for 5 locations. All 5 test holes passed. While on site, the dry well lid was uncovered. The drywell measured 10 feet deep and 6 feet wide. The lid was approximately 3 feet below grade. It contained 2.5 feet of liquid. The drywell must be field located and accurately shown on the plan.

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 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 areas.

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

## Oswald, Hank

---

**From:** Oswald, Hank  
**Sent:** Thursday, October 26, 2017 3:04 PM  
**To:** John Carney (jcarney@bei-civilengineering.com)  
**Cc:** mticarelm@gmail.com  
**Subject:** Perc Test Results\_7156 Mink Hollow Road  
**Attachments:** Perc Test Results\_7156 Mink Hollow Road\_10.26.17.pdf

Hello All:

Attached, please find the perc test results for 7156 Mink Hollow 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)

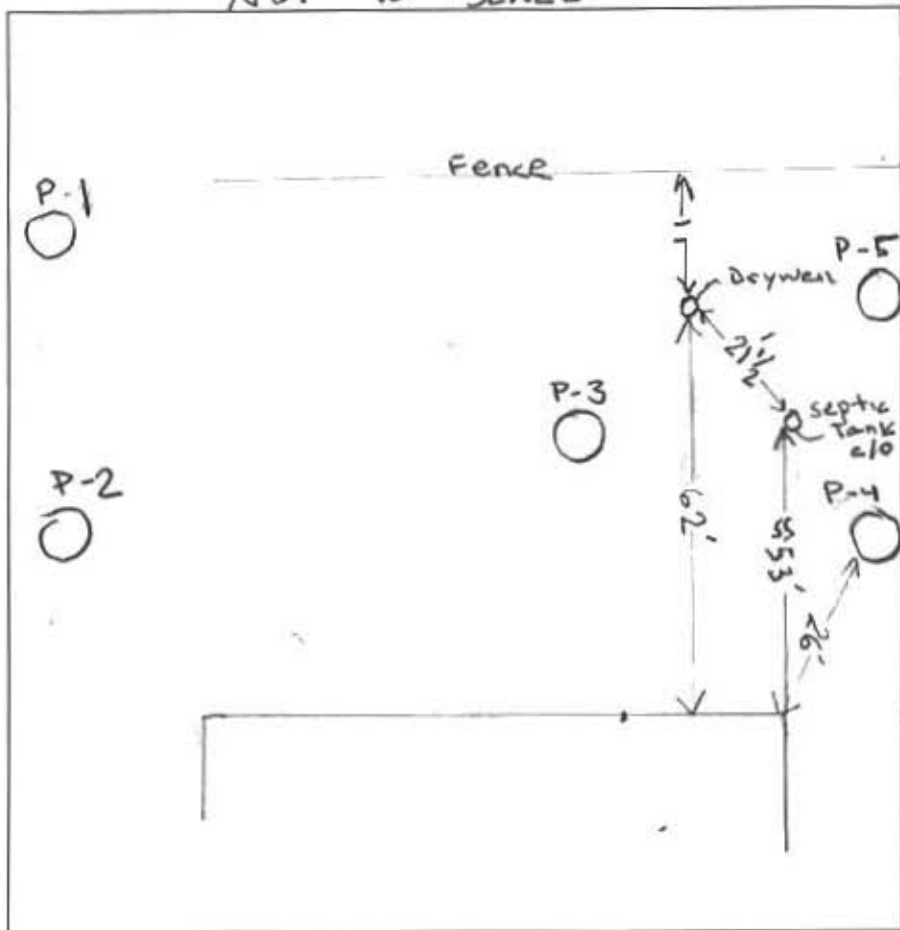
NOT TO SCALE

AP \_\_\_\_\_

**P-1**  
 0.4' br l  
 2.8' yel br sil  
 pl  
 pale red sil  
 5' roots  
 pale red yel br sl  
 mica  
 5% frags  
 12.5' dry

**P-2**  
 0.6' Asphalt millings  
 yel red sil  
 rock-2'  
 3' pale red yel br sil  
 13.5' dry

**P-3**  
 3' br l  
 pale red yel sil  
 14' yel br sil  
 w/ mica  
 5% frags  
 -10%  
 dry



**P-4**  
 0.5' br l  
 pale red yel sil  
 3' yel br sl  
 w/ mica  
 pl  
 13.5' dry

**P-5**  
 0.3' br l  
 0.18' roots  
 pale red yel sil  
 2.9' yel br sl  
 pl  
 13.5' dry

MINNEAPOLIS HOLLOW RD

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
10/26/17	P-1	4.5/12.5	8:05	8:06	8:08	2	P
10/26/17	P-2	4.5/13.5	8:13	8:15	8:17	2	P
10/26/17	P-3	4'/14'	8:58	9:00	9:02	2	P
10/26/17	P-4	5'/13.5	8:44	8:52	9:07	15	P
10/26/17	P-5	4.5/13.5	8:28	8:31	8:34	3	P

REMARKS dry well 10' deep (2.5 of water) & 6' wide

SANITARIAN H. Oswald BACKHOE Hot Fields OTHERS owner

TEST HOLES USED IN SDA 1, 2, 3, 4, 5 AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

AP \_\_\_\_\_

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 SW \_\_\_\_\_

## Oswald, Hank

---

**From:** Oswald, Hank  
**Sent:** Monday, December 04, 2017 10:43 AM  
**To:** 'martin ticar'  
**Subject:** RE: Perc Test Results\_7156 Mink Hollow Road

Hello Mr. Ticar:

I have a few follow-up questions regarding the floor plan layout. Just so it's clear, the proposed office and laundry room in the basement do not have windows? Is the utility room finished with insulation and drywall? Is the hot water heater and HVAC and or boiler located in the utility room? If so, please show them on the floor plan.

Once we are in agreement on the floor plans and the OSDS Plan has been approved, we will require the septic system to be installed prior to building permit approval.

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

Respectfully,

Hank

**From:** martin ticar [<mailto:mticarelm@gmail.com>]  
**Sent:** Saturday, December 02, 2017 10:05 AM  
**To:** Oswald, Hank  
**Subject:** Re: Perc Test Results\_7156 Mink Hollow Road

Good morning

You said during the perc test that I should send you my application for permits. I'm sorry this has taken so long, I got sidetracked with another project in Anne Arundel. Just to give you a little background...When I bought the house it was listed as a 4 bedroom, 3 bath house, the house has had many additions, I believe one addition was done to add an office, so the house would be a 3 bedroom, 1 office house. Later the house was sold, and somehow the office became a bedroom, what I'm trying to do is make everything legit septic wise, and simply update the house. When I bought it the basement had paneling and drop ceilings, we are putting up sheet-rock, on the walls and ceilings in the basement, as well as updating the basement bathroom, by replacing the fixtures, but keeping the layout. Also in the basement we are turning a large storage space in to an office, it doesn't have a second means of egress so it can't be a bedroom. For the main floor, we rearranged the master bathroom to include a walk-in closet, we removed the bathtub(it had a tub and shower) and combined the space with an existing closet to create a walk-in closet, also in the main bathroom we removed the shower and put a tub back in, with out changing the actual configuration of the bathroom. On the main floor we are also putting in a larger opening in to the kitchen from the sun-room, so we are increasing the size of the header. The other work we have/are doing includes a new garage doors, painting the inside of the house, replaced the AC, painting the deck, cleaning up the landscaping, and a new roof and garage siding. I've attached my application, I'm by no means an artist or an engineer, so my drawings are rudimentary at best, but I think you can get the idea. If you have any questions please call me at 443-878-2361, and obviously you have my email.

Thank you  
Martin Ticar

On Thu, Oct 26, 2017 at 3:03 PM, Oswald, Hank <[hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)> wrote:

Hello All:

Attached, please find the perc test results for 7156 Mink Hollow 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)

## Collins, Sarah

---

**From:** Collins, Sarah  
**Sent:** Thursday, December 21, 2017 3:35 PM  
**To:** 'mticarelm@gmail.com'  
**Subject:** Well at 7156 Mink Hollow Rd.  
**Attachments:** 7156 Mink Hollow Rd well.jpg

Hi Mr. Ticar,

I was at your house today for the layout of the new septic system with Jeff from Hatfield's. I noticed that the well has a loose cap with a bolt missing and the safety rope is outside the casing. The cap should be fixed so that it's secure, and the safety rope needs to be inside the casing. A well driller or plumber is able to complete this work.

We'd like to see these two things completed prior to completion of the septic system installation. The building permit may be held up for issues related to the well.

Let me know if you have any questions.

Thank you,  
Sarah

Sarah Collins, L.E.H.S.  
Howard County Health Department  
Bureau of Environmental Health  
8930 Stanford Blvd.  
Columbia, MD 21045  
[SCollins@howardcountymd.gov](mailto:SCollins@howardcountymd.gov)  
410-313-6287

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## Oswald, Hank

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**From:** Oswald, Hank  
**Sent:** Tuesday, December 05, 2017 2:48 PM  
**To:** 'martin ticar'  
**Subject:** RE: Perc Test Results\_7156 Mink Hollow Road

Hi Mr. Martin –

The next step in the process is to hire a licensed septic contractor to install the system. Please have the contractor apply for a septic upgrade permit with our office. The permit fee will be \$396. At that time, the septic contractor will be provided with an approved copy of the septic plan and schedule a layout inspection.

Once the system has been installed and approved, you will need to apply for the building permit. You could probably use the septic plan for the building permit site plan. As long as the floor plans don't change, this office should be able to sign-off immediately.

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

Respectfully,

Hank

---

**From:** martin ticar [mailto:mticarelm@gmail.com]  
**Sent:** Tuesday, December 05, 2017 9:23 AM  
**To:** Oswald, Hank  
**Subject:** Re: Perc Test Results\_7156 Mink Hollow Road

That absolutely works for me, do I need to do anything else?

Thank you  
Martin

On Dec 5, 2017, at 8:51 AM, Oswald, Hank <[hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)> wrote:

Hi Martin - Rooms with exterior doors instead of windows have been counted as bedrooms. With that said, I think if the utility sinks remain in both rooms and both rooms remain unfinished/unconditioned space, we can move forward with approving the septic plan for 4 bedrooms. Let me know if that works for you.

Hank

**From:** martin ticar [mailto:mticarelm@gmail.com]  
**Sent:** Monday, December 04, 2017 8:26 PM  
**To:** Oswald, Hank  
**Subject:** Re: Perc Test Results\_7156 Mink Hollow Road

I updated the basement floor plan, and I added more/better detail. I relabeled the space mud room, and the room behind it the utility room. I added the water heater, and both utility sinks(one in the mud room and one in the utility room). Also my dimensions were a little off on the first diagram, as well as the space showed a window when its really a door. After reading the description for a bedroom, I have a few more questions.

It says at least one interior door and a window, this space has an exterior door, instead of a window, does that make a difference?

The space also has a utility sink, does that change anything?  
Worst case scenario could i just make the room smaller then 90 sqft by putting in walls, and creating dead spaces?  
Martin

On Mon, Dec 4, 2017 at 1:32 PM, Oswald, Hank <[hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)> wrote:

No minimum height. See attachment for definition. Sec. 3.801

---

**From:** martin ticar [mailto:[mticarelm@gmail.com](mailto:mticarelm@gmail.com)]  
**Sent:** Monday, December 04, 2017 1:26 PM

**To:** Oswald, Hank  
**Subject:** Re: Perc Test Results\_7156 Mink Hollow Road

I apologize for all the emails....I was just reading about bedrooms. Is there a minimum height for a bedroom ceiling? The ceiling in the utility space is only 82-83 inches depending on which wall you measure.

Martin

On Dec 4, 2017, at 12:55 PM, Oswald, Hank <[hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)> wrote:

Hi Martin:

The utility room seems to meet the definition of a bedroom. That's why I asked to see more detail. Please revise your drawing and submit so I can let you know as soon as possible. If the water heater is under the stairs, then we may consider the "Utility" room a bedroom (Total 5 bedrooms). Please note, the OSDS plan was only sized for 4 bedrooms.

It's program policy to withhold BP approval until the septic system has been upgraded. Do you know if this house will require a U and O inspection?

Thanks,

Hank

---

**From:** martin ticar [<mailto:mticarelm@gmail.com>]  
**Sent:** Monday, December 04, 2017 10:57 AM  
**To:** Oswald, Hank  
**Subject:** Re: Perc Test Results\_7156 Mink Hollow Road

Good morning

The water heater is under the stairs in the utility space, and the space is insulated, but not by me, the walls already have drywall from the previous owners, do I need to remove it? Neither the office nor the laundry room have windows, just one door for entrance and egress. The house has electric baseboard heaters, and ac, which is in the attic. I will add the hot water heater to the plans. I just have one question, are you saying I can't do anything permit wise until after the septic system is installed, or I just can't get my final inspection until after the septic system is installed? Basically are you saying I can't start permitting until the septic is finished, or I can't finish? When do you think the plan will be approved so that I can get the septic installed?

Thank you

Martin

On Dec 4, 2017, at 10:43 AM, Oswald, Hank <[hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)> wrote:

Hello Mr. Ticar:

I have a few follow-up questions regarding the floor plan layout. Just so it's clear, the proposed office and laundry room in the basement do not have windows? Is the utility room finished with insulation and drywall? Is the hot water heater and HVAC and or boiler located in the utility room? If so, please show them on the floor plan.

Once we are in agreement on the floor plans and the OSDS Plan has been approved, we will require the septic system to be installed prior to building permit approval.

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

Respectfully,

Hank

**From:** martin ticar [<mailto:mticarelm@gmail.com>]  
**Sent:** Saturday, December 02, 2017 10:05 AM  
**To:** Oswald, Hank  
**Subject:** Re: Perc Test Results\_7156 Mink Hollow Road

Good morning

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Thank you

Martin Ticar

On Thu, Oct 26, 2017 at 3:03 PM, Oswald, Hank  
<[hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)> wrote:

Hello All:

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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](tel:410.313.1786) (Office)  
[410.313.2648](tel:410.313.2648) (Fax)

→ **Oswald, Hank**

---

**From:** Oswald, Hank  
**Sent:** Friday, November 03, 2017 12:06 PM  
**To:** John Carney (jcarney@bei-civilengineering.com)  
**Subject:** Perc Cert Plan Comments\_7156 Mink Hollow Road  
**Attachments:** Plan\_7156 Mink Hollow.pdf; Memo\_Perc Cert Plan\_7156 Mink Hollow\_Benchmark\_11.3.17.pdf; Septic Specs\_7156 Mink Hollow.pdf

Hi John:

Please see attachments pertaining to the review of the perc cert plan for 7156 Mink Hollow.

Thanks,

Hank

Hank Oswald  
Licensed Environmental Health Specialist  
Howard County Health Department  
Bureau of Environmental Health  
Well & Septic Program  
8930 Stanford Boulevard  
Columbia, MD 21045  
410.313.1786 (Office)  
[hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)

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• ~ Oswald, Hank

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**From:** martin ticar <mticarelm@gmail.com>  
**Sent:** Saturday, December 02, 2017 10:05 AM  
**To:** Oswald, Hank  
**Subject:** Re: Perc Test Results\_7156 Mink Hollow Road  
**Attachments:** 12021701.PDF

Good morning

You said during the perc test that I should send you my application for permits. I'm sorry this has taken so long. I got sidetracked with another project in Anne Arundel. Just to give you a little background...When I bought the house it was listed as a 4 bedroom, 3 bath house, the house has had many additions, I believe one addition was done to add an office, so the house would be a 3 bedroom, 1 office house. Later the house was sold, and somehow the office became a bedroom, what I'm trying to do is make everything legit septic wise, and simply update the house. When I bought it the basement had paneling and drop ceilings, we are putting up sheet-rock, on the walls and ceilings in the basement, as well as updating the basement bathroom, by replacing the fixtures, but keeping the layout. Also in the basement we are turning a large storage space in to an office, it doesn't have a second means of egress so it can't be a bedroom. For the main floor, we rearranged the master bathroom to include a walk-in closet, we removed the bathtub(it had a tub and shower) and combined the space with an existing closet to create a walk-in closet, also in the main bathroom we removed the shower and put a tub back in, with out changing the actual configuration of the bathroom. On the main floor we are also putting in a larger opening in to the kitchen from the sun-room, so we are increasing the size of the header. The other work we have/are doing includes a new garage doors, painting the inside of the house, replaced the AC, painting the deck, cleaning up the landscaping, and a new roof and garage siding. I've attached my application, I'm by no means an artist or an engineer, so my drawings are rudimentary at best, but I think you can get the idea. If you have any questions please call me at 443-878-2361, and obviously you have my email.

Thank you  
Martin Ticar

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Respectfully,

Hank

Hank Oswald, L.E.H.S.

Howard County Health Department

Bureau of Environmental Health

Well & Septic Program

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

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

Twitter: HowardCoHealthDep

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

---

**Memorandum**

TO: Benchmark  
John Carney

FROM: Hank Oswald  
Well & Septic Program

RE: Percolation Certification Plan  
7156 Mink Hollow Road

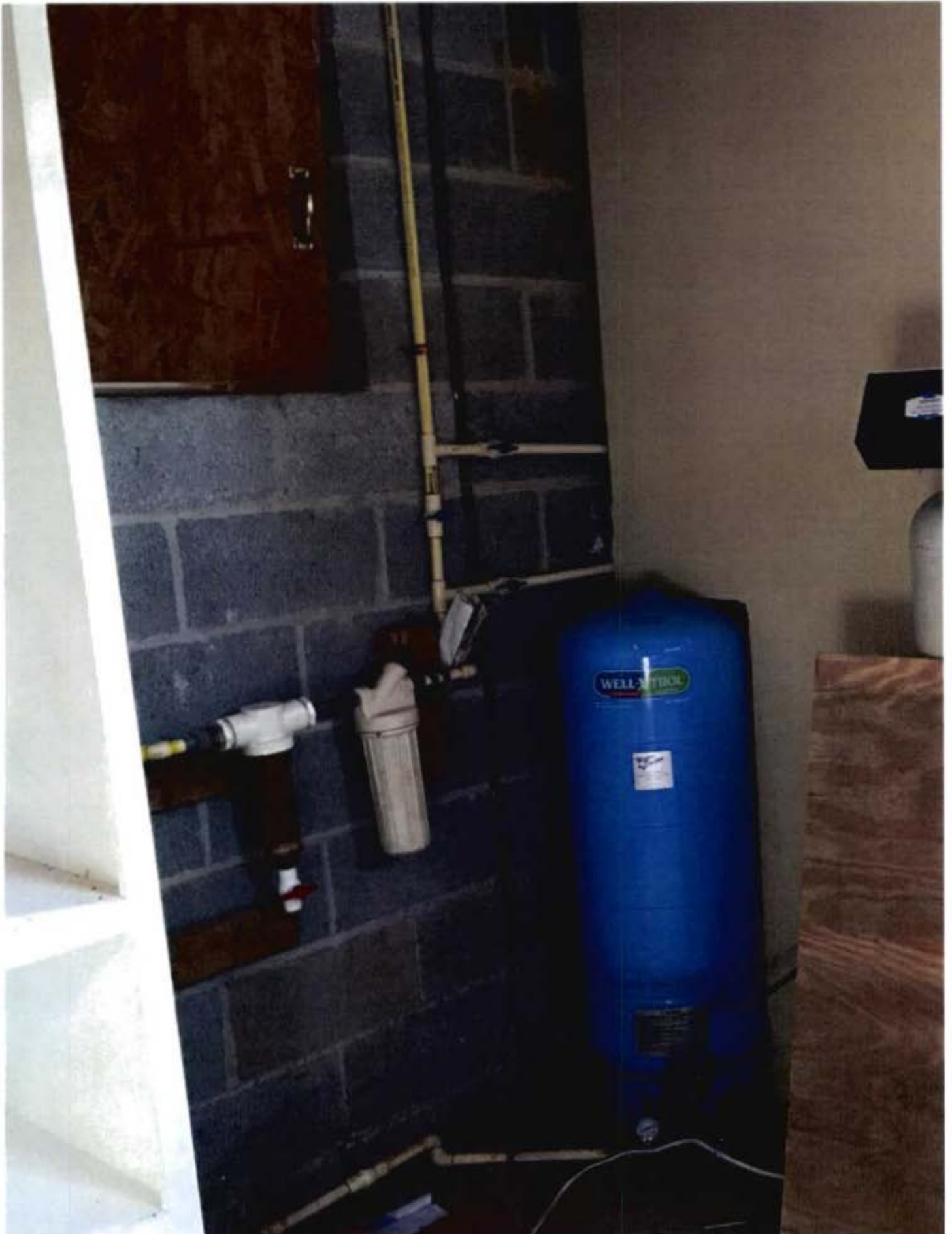
DATE: November 3, 2017

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The Health Department has reviewed the percolation cert plan and has the following comments.

- 1.) Show how 3 systems fit in the proposed SDA or 2 systems with a BAT
- 2.) Maintain 10 foot setback around existing septic system components. Add 10 foot setback radius/line around components (See attachment).
- 3.) Show proposed septic tank location; 10 feet from portion of house without a basement or 20 feet from portion of house with basement. Label house portion with basement and without basement.
- 4.) Add note, Existing well (HO-94-3466) has been field located by \_\_\_\_\_.
- 5.) Delete note #6. It doesn't apply.
- 6.) If portion of SDA around deck /fire ring/ patio is not being used then add line to plan. (See attachment). Alternatively, you may use portion underneath fire ring/patio for replacement system but you will need to add a note that fire ring/patio will need to be removed at time of future installation of replacement system. If the later, then add 5 foot setback around existing deck.
- 7.) Show 10 foot setback from SDA to property line and shed.

Please make the requested changes to the plan and/or provide clarification. Should you have any questions or concerns, please don't hesitate to contact me.





## Oswald, Hank

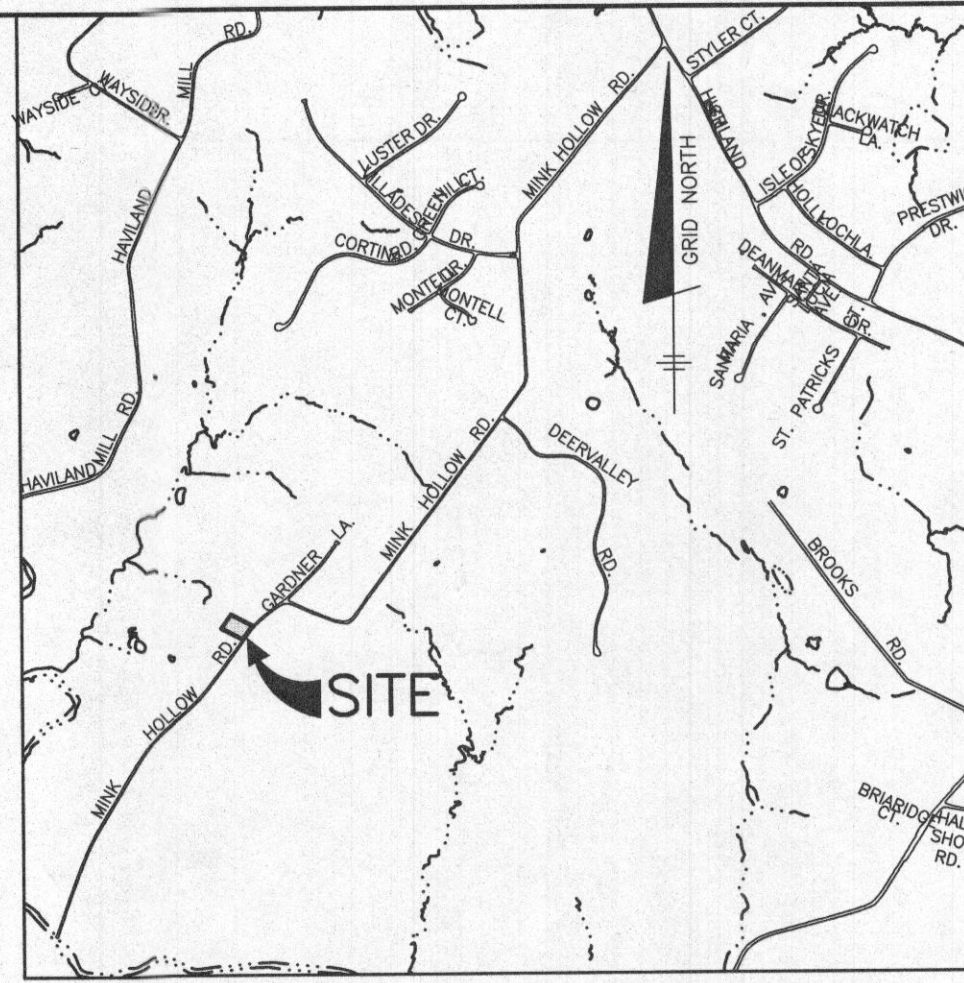
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**From:** martin ticar <mticarelm@gmail.com>  
**Sent:** Monday, December 04, 2017 1:16 PM  
**To:** Oswald, Hank  
**Subject:** Re: Perc Test Results\_7156 Mink Hollow Road

I'm pretty sure I won't need a U and O inspection, I'm just remodeling the bathrooms and increasing one header. As for the utility space, I've included some pictures, I forgot to mention that the electrical panel is also in that room and some of the walls and ceiling aren't enclosed, it's more like a mud room/utility room. I understand withholding the permit, do you think we will get a plan approval soon? As soon as the plans approved I had planned to immediately go forward with installation, based on the availability of septic company, no point in waiting. Thank you for all your help  
Martin

SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND					
SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME	k-VALUE
GgB		B		GLENELG LOAM, 3 TO 8 PERCENT SLOPES	0.20
MaC		B		MANOR LOAM, 8 TO 15 PERCENT SLOPES	0.24

\* INDICATES HYDRIC SOILS  
 \*\* HIGHLY ERODIBLE, K>0.35, AND/OR 15% OR GREATER SLOPES  
 TAKEN FROM THE NRCS WEB SOIL SURVEY, OCTOBER 2017, MAP 22.

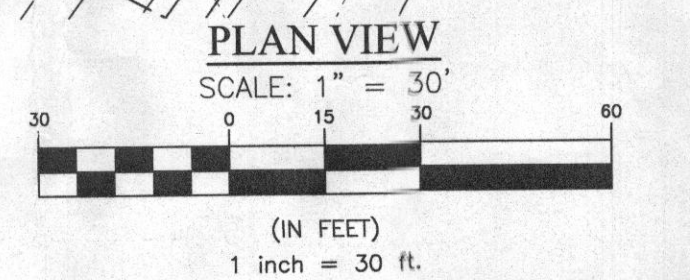
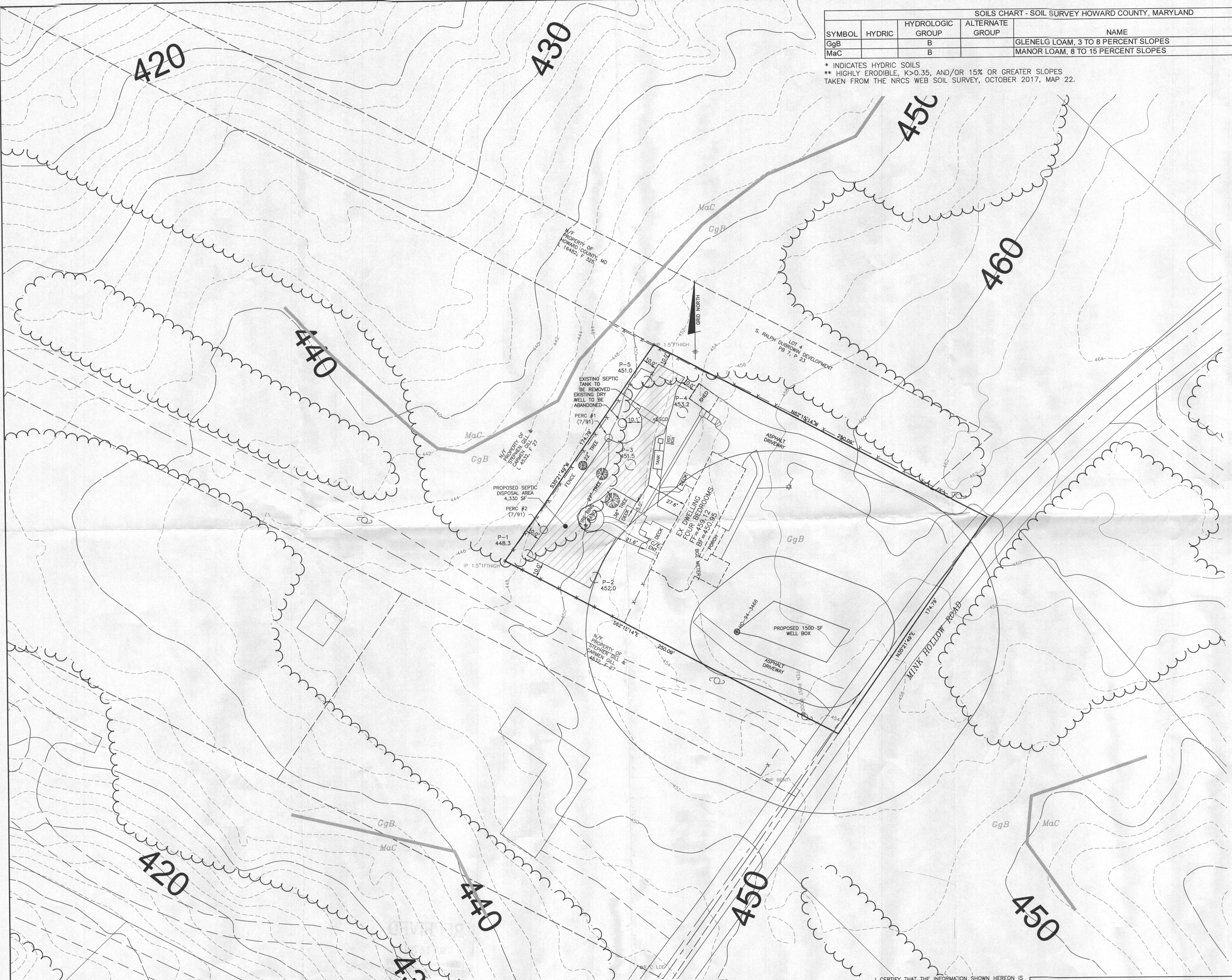


ADC MAP 5051 GRID B2  
 VICINITY MAP  
 SCALE: 1" = 2000'

**GENERAL NOTES**

- THIS AREA DESIGNATES A PRIVATE SEWER DISPOSAL AREA AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWER DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS 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 NECESSARY.
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- ANY CHANGES TO A SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY'S BOUNDARIES EXCEPT THAT WHICH ARE SHOWN.
- TOPOGRAPHY SHOWN ON THIS LOT WAS FIELD VERIFIED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT SEPTEMBER, 2017. SITE VISIT VERIFIED NO STEEP SLOPES IN THE AREA OF THE SEPTIC DISPOSAL AREA.
- EXISTING WELL, TAG NUMBER 10-34-3466, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC., IN SEPTEMBER, 2017, AND IS ACCURATELY SHOWN.
- SEPTIC TANK MUST BE SIZED TO FULFILL COMAR REQUIREMENT.
- PERCOLATION TEST FEE RECEIPT NUMBER, REFERENCED IN THE APPROVING AUTHORITY CORRESPONDENCE, IS A561549.
- THERE IS ONE SPECIMEN TREE BEHIND HOUSE ON THIS PROPERTY AND IS NOT WITHIN THE SEPTIC DISPOSAL AREA.
- THE EXISTING DWELLING IS TO REMAIN.
- THE EXISTING FIRE PIT AND PATIO MAY HAVE TO BE REMOVED FOR THE INSTALLATION OF THE SECOND REPAIR SYSTEM (TRENCHES T-3A AND T-3B).

LEGEND	
	EXISTING CONTOURS
	EXISTING TREELINE
	LIMIT OF SUBMISSION
	PROPOSED SEPTIC AREA
	WELL BOX
	WELL
	SOILS DELINEATION
	PASSING TEST LOCATION (10/2017)
	EXISTING PASSING PERCOLATION TEST (7/91)



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.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT

PLAN PREPARER: JOHN M. CARNEY FOR BENCHMARK ENGINEERING INC.  
 DATE: 12/11/2017

HOWARD COUNTY HEALTH OFFICER: [Signature]  
 DATE: 12/11/2017

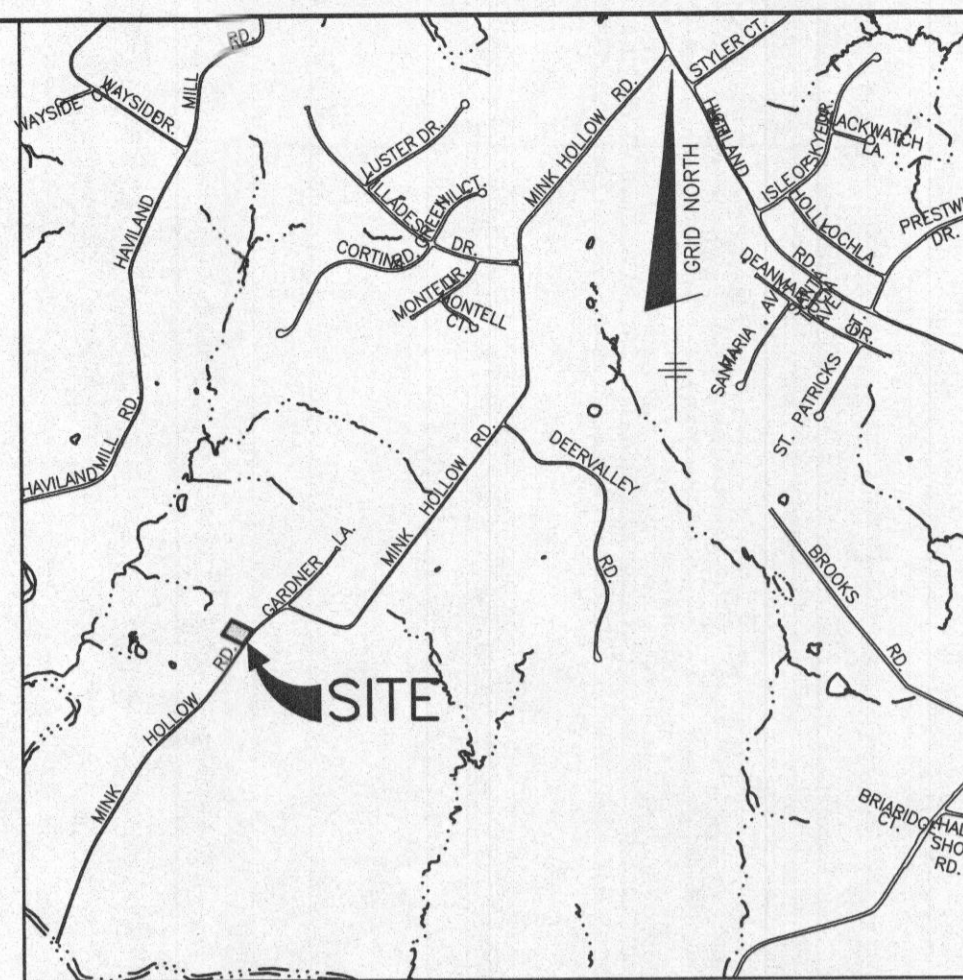
NO.	DATE	REVISION

**BENCHMARK ENGINEERING, INC.**  
 ENGINEERS LAND SURVEYORS PLANNERS  
 8480 BALTIMORE NATIONAL PIKE SUITE 315 ELICOTT CITY, MARYLAND 21043  
 (P) 410-465-8105 (F) 410-465-6644  
 WWW.BE-CIVILENGINEERING.COM

OWNER:	<b>7156 MINK HOLLOW ROAD</b> HIGHLAND, MD 20777
ELM THREE LLC C/O MARTIN TICAR 4964 WINDPOWER WAY ELICOTT CITY, MD 21043 443-878-2361 MTICARELM@GMAIL.COM	TAX MAP: 40, GRID: 11, PARCEL: 11 ZONED: RC-DEO ELECTION DISTRICT NO. 5 - HOWARD COUNTY, MARYLAND ACCOUNT ID: 05-362733
<b>PERCOLATION CERTIFICATION PLAN</b>	
DATE: NOVEMBER, 2017	BEI PROJECT NO. 2864
DESIGN: JC	DRAFT: JC
SCALE: 1" = 30'	SHEET 1 OF 1

SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND					
SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME	k-VALUE
GgB		B		GLENELG LOAM, 3 TO 8 PERCENT SLOPES	0.20
MaC		B		MANOR LOAM, 8 TO 15 PERCENT SLOPES	0.24

\* INDICATES HYDRIC SOILS  
 \*\* HIGHLY ERODIBLE, K>0.35, AND/OR 15% OR GREATER SLOPES  
 TAKEN FROM THE NRCS WEB SOIL SURVEY, OCTOBER 2017, MAP 22.



ADC MAP 5051 GRID B2  
**VICINITY MAP**  
 SCALE: 1" = 2000'

**GENERAL NOTES**

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**LEGEND**

	480	EXISTING CONTOURS
		EXISTING TREELINE
		LIMIT OF SUBMISSION
		PROPOSED SEPTIC AREA
		WELL BOX
		WELL
	GgB	SOILS DELINEATION
		PASSING TEST LOCATION (10/2017)
		EXISTING PASSING PERCOLATION TEST (7/91)

NO.	DATE	REVISION

**BENCHMARK**  
 ENGINEERS AND SURVEYORS PLANNERS  
**ENGINEERING, INC.**  
 8480 BALTIMORE NATIONAL PIKE SUITE 315 ELLICOTT CITY, MARYLAND 21043  
 (P) 410-465-6105 (F) 410-465-6644  
 WWW.BEI-CIVLENGINEERING.COM

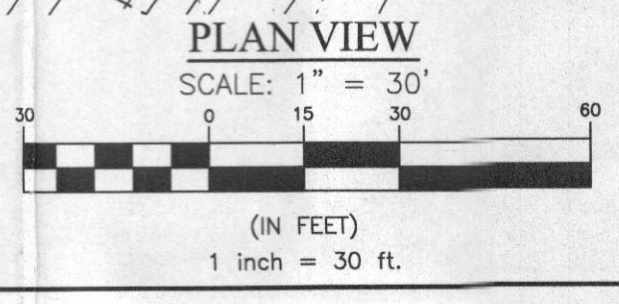
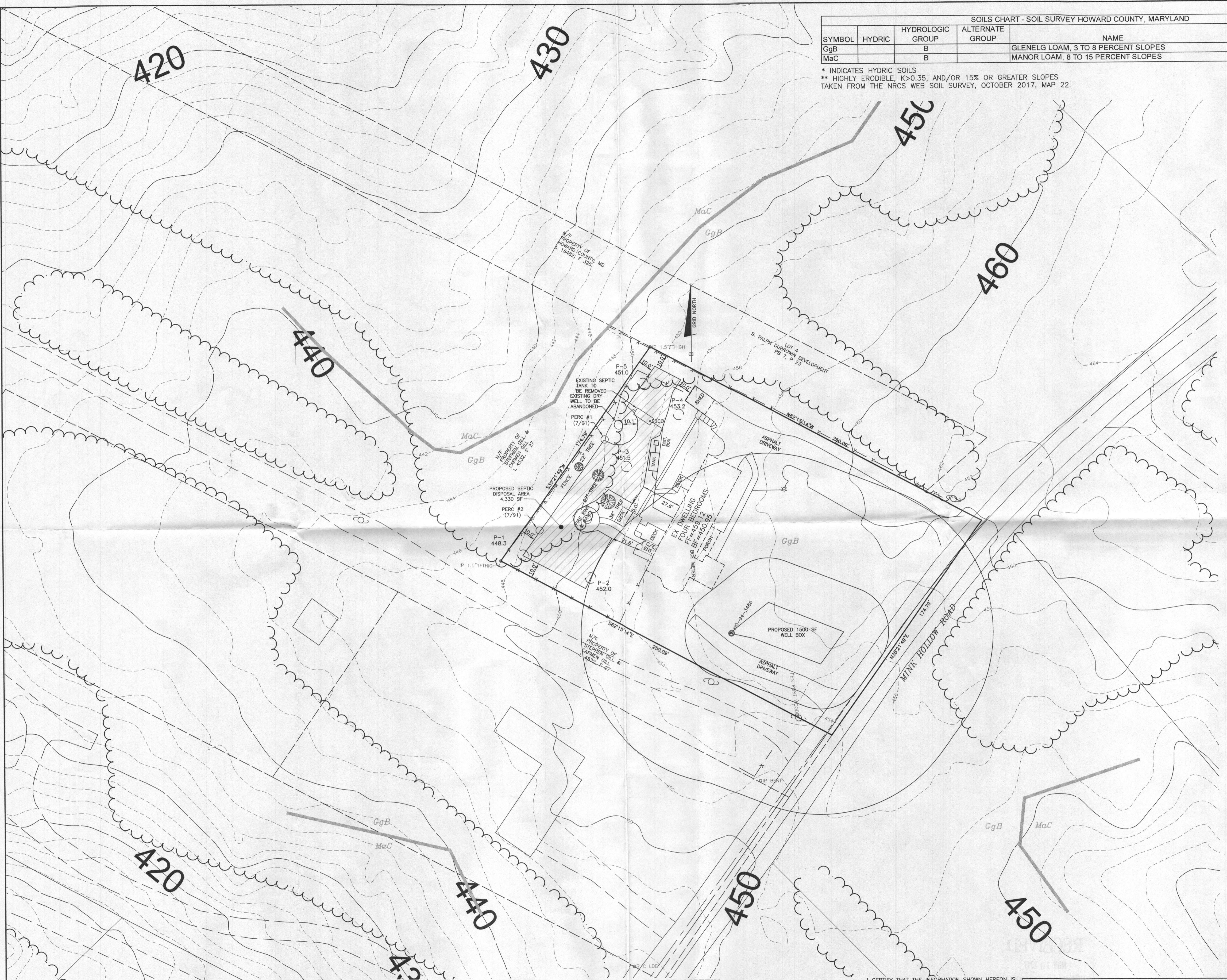
**OWNER:**  
 ELM THREE LLC  
 C/O MARTIN TICAR  
 4994 WINDPOWER WAY  
 ELLICOTT CITY, MD 21043  
 443-6578-2361  
 MTICARELM@GMAIL.COM

**7156 MINK HOLLOW ROAD**  
 HIGHLAND, MD 20777

TAX MAP: 40, GRID: 11, PARCEL: 11  
 ZONED: RC-DEO  
 ELECTION DISTRICT NO. 5 - HOWARD COUNTY, MARYLAND  
 ACCOUNT ID: 05-382733

**PERCOLATION CERTIFICATION PLAN**

DATE: NOVEMBER, 2017	BEI PROJECT NO. 2864
DESIGN: JC	DRAFT: JC
SCALE: 1" = 30'	SHEET 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 MY KNOWLEDGE AND BELIEF.

*John M. Carney*  
 JOHN M. CARNEY  
 FOR BENCHMARK ENGINEERING INC.

DATE: 11/13/17

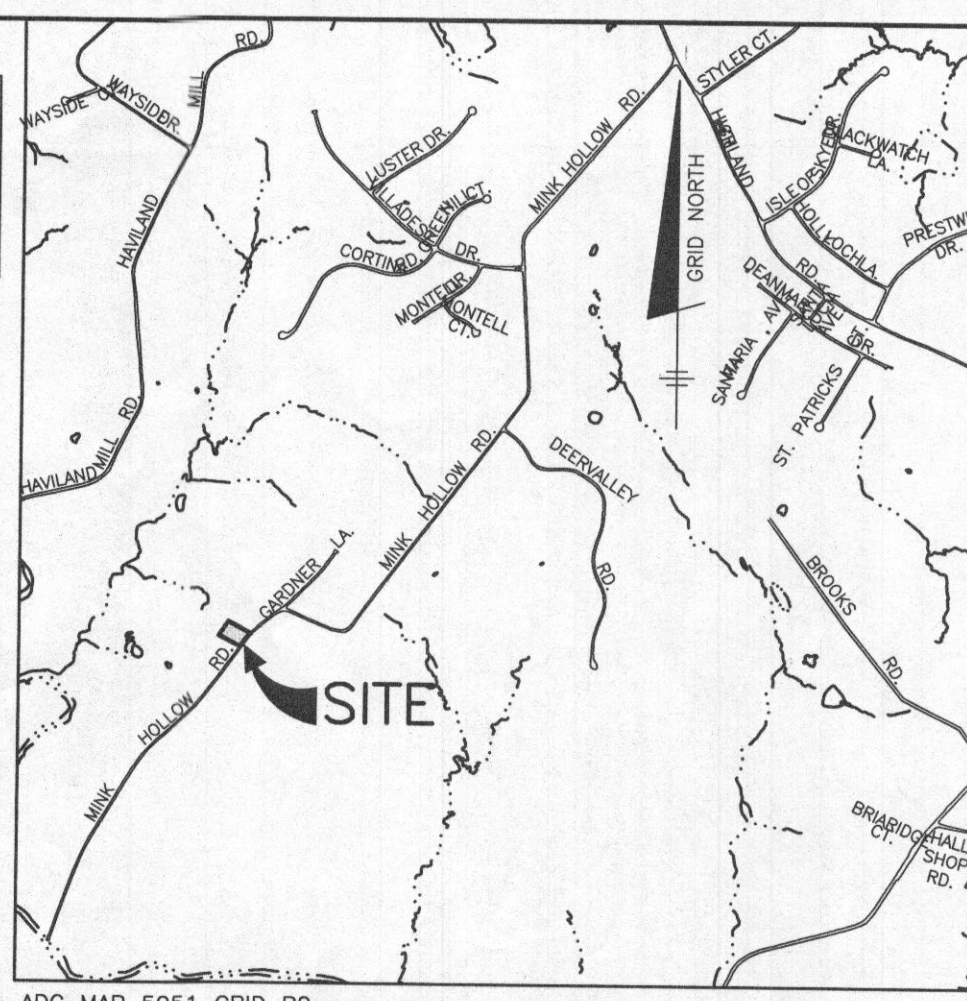
APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT

*Maureen Rossman*  
 MAUREEN ROSSMAN  
 HOWARD COUNTY HEALTH OFFICER

DATE: 12/1/2017

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

\* INDICATES HYDRIC SOILS  
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 TAKEN FROM THE NRCS WEB SOIL SURVEY, OCTOBER 2017, MAP 22.



ADC MAP 5051 GRID B2  
 VICINITY MAP  
 SCALE: 1" = 2000'

**GENERAL NOTES**

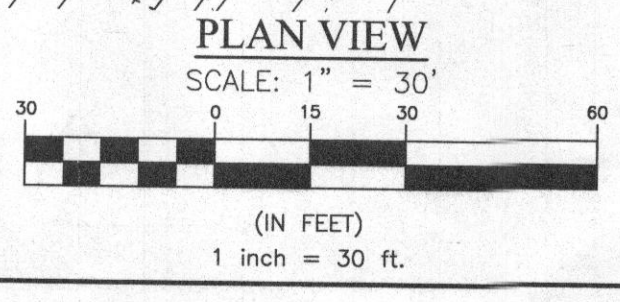
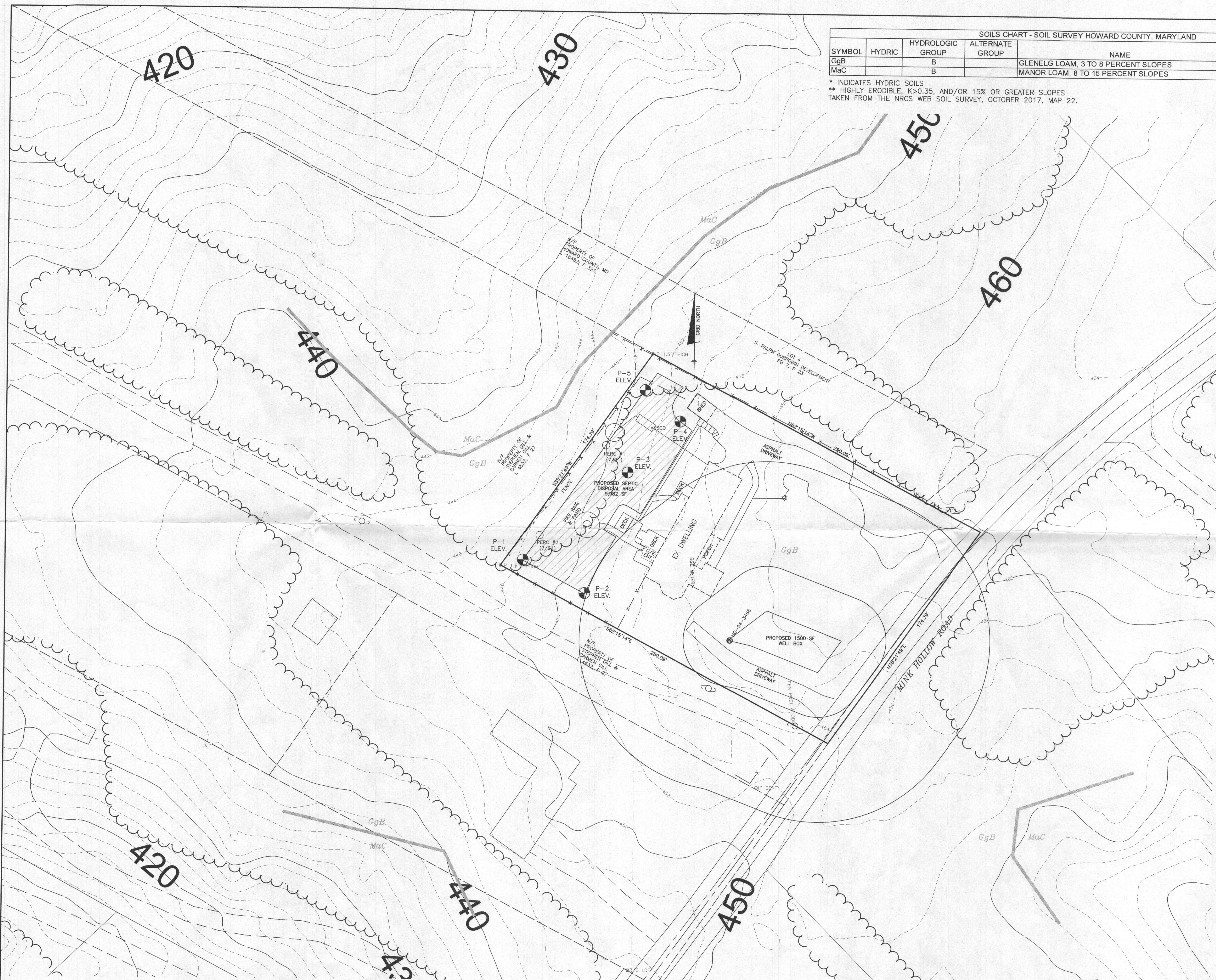
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- ALL WELLS TO BE DRILLED PRIOR TO FINAL PLAT APPROVAL. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE WELL DRILLING PRIOR TO BUILDING PERMIT PLAN SUBMISSION, IF NECESSARY. IT WILL NOT BE CONSIDERED GOVERNMENT DELAY IF THE WELL-DRILLING HOLDS UP THE HEALTH DEPARTMENT APPROVAL OF THE BUILDING PERMIT.
- SEPTIC TANK MUST BE SIZED TO FULFILL COMAR REQUIREMENT.
- PERCOLATION TEST FEE RECEIPT NUMBER, REFERENCED IN THE APPROVING AUTHORITY CORRESPONDENCE, IS AS
- THERE ARE NO SPECIMEN TREE ON THE PROPERTY.
- THE EXISTING DWELLING IS TO REMAIN.

LEGEND	
	EXISTING CONTOURS
	EXISTING TREELINE
	LIMIT OF SUBMISSION
	PROPOSED SEPTIC AREA
	WELL BOX
	WELL
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	PROPOSED TEST LOCATION
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NO.	DATE	REVISION

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TAX MAP: 40, GRID: 11, PARCEL: 11 ZONED: RC-DEO ELECTION DISTRICT NO. 5 - HOWARD COUNTY, MARYLAND ACCOUNT ID: 05-382733	
<b>PERCOLATION TESTING PLAN</b>	
DATE: OCTOBER, 2017	BEI PROJECT NO. 2864
DESIGN: JC	DRAFT: JC
SCALE: 1" = 30'	SHEET 1 OF 1



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*John M. Carney* 10/6/17  
 PLAN PREPARER JOHN M. CARNEY DATE: 10/6/17  
 FOR BENCHMARK ENGINEERING INC.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 \_\_\_\_\_  
 HOWARD COUNTY HEALTH OFFICER DATE: \_\_\_\_\_