



Bureau of Environmental Health
8930 Stanford Blvd | Columbia, MD 21045
410.313.2640 - Voice/Relay
410.313.2648 - Fax
1.866.313.6300 - Toll Free

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

APPLICATION
FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Gray Property
PROPERTY ADDRESS 13071 Wainright Road Highland 20777
TAX ACCOUNT # 372682 TAX MAP 40 GRID 9 PARCEL 39 LOT NO. PROPOSED LOT SIZE (ACRES) 4.9950
ZONING CATEGORY RR-DEO TIER

PROPERTY OWNER(S) Oliver & Tiffany Gray

DAYTIME PHONE CELL 301-706-9155 EMAIL grayoliver@gmail.com
MAILING ADDRESS 13071 Wainright Road Highland, Maryland 20777

APPLICANT Zachary Sill RELATIONSHIP TO OWNER: Engineer
DAYTIME PHONE 443-325-5076 ext. 107 CELL EMAIL zach@sillengineering.com
MAILING ADDRESS 16005 Frederick Road Woodbine, Maryland 21797

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

- 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:
RESIDENTIAL WITH 5 EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)
IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?
YES
NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

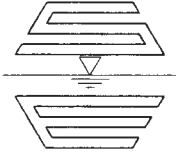
- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
THE APPLICATION FEE IS NON-REFUNDABLE
THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE SITE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



16005 Frederick Road, 2nd Floor
Woodbine, MD 21797
Website: www.sillengineering.com

Office: 443-325-5076
Fax: 410-696-2022
Email: info@sillengineering.com
Civil Engineering for Land Development

SILL ENGINEERING GROUP, LLC

April 19, 2023

**Howard County Department of
Planning and Zoning**

3430 Courthouse Drive
Ellicott City, Maryland 21043

Re: Gray property
13071 Wainwright Rd.
Highland, Md. 20777

To Whom it may Concern:

Sill Engineering Group, LLC has completed a field review and assessment of the referenced project site. The project is located at 13071 Wainwright Rd. Highland, Md. 20777 and is also known as Tax Map 0040, Grid 0009, Parcel 0039. The property is currently zoned RR DEO and consists of 5.0000 acres. A field review of the site was performed to determine the nature and extent of any regulated natural resources on the site.

Currently Parcel 0093 has an existing house and circular driveway that is located in a clearing. The remainder of the property is mature forest. Along the front of the property, running somewhat parallel with Wainwright Road is an intermittent stream located in a deep ravine. The forest on the property has multiple specimen trees located on site and appeared to have very little invasive species of flora.

Steep slopes are present on the subject property.

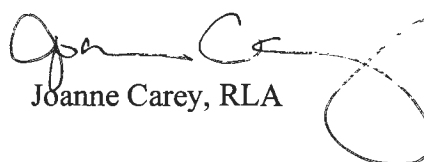
No rare, threatened, or endangered species are known to occur on the subject property.

No cemeteries or historic elements are known to occur on the subject property.

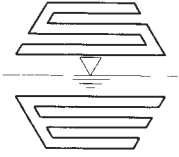
This project is situated in the 12-digit watershed 021311070942, which is part of the 8 digit, 02131107 Rocky Gorge Dam.

We conclude that there are no regulated natural resources on the site. Should you have any questions or comments regarding this matter, please do not hesitate to contact this office.

Sincerely,
SILL ENGINEERING GROUP, LLC


Joanne Carey, RLA

Jan 2023



16005 Frederick Road, 2nd Floor
Woodbine, MD 21797
Website: www.sillengineering.com

Office: 443-325-5076
Fax: 410-696-2022
Email: info@sillengineering.com
Civil Engineering for Land Development

SILL ENGINEERING GROUP, LLC

April 19, 2023

**Howard County Department of
Planning and Zoning**

3430 Courthouse Drive
Ellicott City, Maryland 21043

Re: Gray property
13071 Wainwright Rd.
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We conclude that there are no regulated natural resources on the site. Should you have any questions or comments regarding this matter, please do not hesitate to contact this office.

Sincerely,

SILL ENGINEERING GROUP, LLC


Joanne Carey, RLA

JUN 21 2023

Williams, Jeffrey

From: Paul Sill <paul@sillengineering.com>
Sent: Sunday, November 19, 2023 2:18 PM
To: Williams, Jeffrey
Subject: RE: 13071 Wainwright Road - Gray property Perc App

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Thanks Jeff, we'll look at that.

Paul M. Sill, PE, LEED AP



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC

16005 Frederick Road, 2nd Floor
Woodbine, MD 21797 | Cell: 443-878-4314
Office: 443-325-5076 ext. 102 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Sent: Friday, November 17, 2023 3:57 PM
To: Paul Sill <paul@sillengineering.com>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

Mike reviewed the project with me and he agreed that we cannot move down from the 607-602 line without further testing, but it looks like you have not explored adding area above the existing trenches between 608-605. Looks like a lot of area up to the well setback line. New future trenches would need to stay 5' from existing trenches to be abandoned and the specs in that area would be 0.8 rate and 4-6' sidewall. 6' bottom. See if you can make 3 systems fit adding that area, but taking away area below 607-602 without needing more testing.

From: Paul Sill <paul@sillengineering.com>
Sent: Thursday, November 16, 2023 3:09 PM
To: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Thanks Jeff, let me know what Mike says.

Trust me, I let the clients know what they are getting in to; that doesn't mean they listen or that I agree with what ends up happening.

There's no argument that showing the wells and septic components and the required distances are a long standing requirement, field locating was my issue in this case; it did nothing but cost time and money. They are the ones boxed in red on the attached.

And just to be clear, I'm not pissed off, just a little venting, thanks for the discussion.

Thanks,

Paul M. Sill, PE, LEED AP



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Office: 443-325-5076 ext. 102 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Sent: Thursday, November 16, 2023 1:43 PM
To: Paul Sill <paul@sillengineering.com>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

I understand Paul. I think it would be helpful if the engineers could help homeowners understand the requirements and limitations early in the process and be an ally in finding something that can work within those confines. The existing system is not adequate for a bedroom addition because it is undersized and more importantly does not have a 4' soil buffer beneath the bottom of the trench. That is a long standing regulatory requirement when someone is adding a bedroom. There are old drywells in Mt. Airy sitting in fractured rock that will never fail in many lifetimes that seemingly don't have any problems for a homeowner, but that doesn't mean they are adequate for an addition. That is something the homeowner should have heard from the contractor, from the engineer, and did hear it from us when they applied for the building permit in February. When we perc tested, there was not someone from your office onsite to assist in finding alternative area when some holes failed. If there were, you could have made other suggestions for more area or suggested another day of testing right away or soon after the first round of testing to avoid wasted time.

That said, I'm willing to go over your last proposed trench layout with Mike Davis to see if he is willing to accept the existing area or if he believes more testing is needed. I can let you know within the next couple days.

As for finding neighboring systems and wells, that is something that has been a requirement for decades. The plan designer has to make the statement on the plan that all wells and septics within 100' of the property boundary and 200' downgrade have been shown. It certainly doesn't help when we discover wells or systems nearby that were not shown on plans and then we get blamed for every delay.

We try our best to be consistent and transparent with all of our requirements and many of them have not changed in many years. If you want to discuss any of our requirements or have any questions, please reach out to me so you can help make the homeowners more informed to make the process go smoother. Thanks
Jeff

From: Paul Sill <paul@sillengineering.com>
Sent: Thursday, November 16, 2023 12:50 PM
To: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

I'm used to the 5 holes in Howard, but we've always had a roughly 25' buffer from passed test holes to an SDA edge.

The reason not to do additional tests is admittedly financial; this cost to homeowners is expensive, and this one's being hit with a lot of additional costs for a system that doesn't have any problems. Additional requirements seem to be set on projects without concern for the financial impact to homeowners. i.e. making us field locate off-site well and septic

systems that are across a road, across a ridge, and hundreds of feet away from our proposed septic system (Sayago Property, another project that took about 9 months for the PC). There is a lot of frustration from clients that hasn't been there in the past.

Paul M. Sill, PE, LEED AP



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC

16005 Frederick Road, 2nd Floor
Woodbine, MD 21797 | Cell: 443-878-4314
Office: 443-325-5076 ext. 102 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Sent: Thursday, November 16, 2023 11:54 AM
To: Paul Sill <paul@sillengineering.com>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

Hi Paul. Howard Co Code 3.809c states that 5 perc holes are required per sewage disposal area. We have the ability to alter that one way or the other depending on soil conditions, but that has been the requirement since the code was adopted in 2007 and was a standard practice even before that. We have always looked at the site conditions to determine tests needed and area we are willing to approve based on tests conducted. It is pretty standard for us to hold pretty tight to the test holes when going downhill or when we have failure in the area or if there are rock or water concerns. As you pointed out, the area of biggest concern is the downhill section below holes 607 and 602. If you are proposing to conduct additional testing to hopefully capture that area, the proposed hole should be lower toward the property line (10' off). And, if we're out there, we should do the two other holes I showed on my plan from Tuesday to provide additional area on the side. There is no reason not to if we're out there anyway.
Jeff

From: Paul Sill <paul@sillengineering.com>
Sent: Tuesday, November 14, 2023 3:58 PM
To: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Subject: FW: 13071 Wainwright Road - Gray property Perc App

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

See attached PDF2034-01.pdf from a Carroll County project earlier this year, just three tests, and we submitted in August and had signed plans in February; this is where some of my frustrations come from.

The two other attachments and Comment 2 below is what Melanie gave us to do back in September, and is what our SDA is based on. While we did what she asked, I see there is a generally untested area between tests 607 and 602, while other counties don't seem to have a problem with this, if you could agree, can we keep what we've drawn and do just one more hole as I've noted in red on the Wainwright plan attached. If so, I'll reply all to your earlier email with this suggestion.

Thanks for considering,

Paul M. Sill, PE, LEED AP



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC

16005 Frederick Road, 2nd Floor
Woodbine, MD 21797 | Cell: 443-878-4314
Office: 443-325-5076 ext. 102 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Zach Sill <zach@sillengineering.com>
Sent: Tuesday, November 14, 2023 3:14 PM
To: Paul Sill <paul@sillengineering.com>
Subject: FW: 13071 Wainwright Road - Gray property Perc App

Thanks,

Zachary Sill
Civil Drafter & Designer
Erosion & Sediment Control No. RPC016242



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC

16005 Frederick Road, 2nd Floor
Woodbine, MD 21797
Office: 443-325-5076 ext. 107 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Sent: Thursday, September 28, 2023 5:06 PM
To: Zach Sill <zach@sillengineering.com>
Cc: Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

Good afternoon Zach,

Thank you for addressing my revision comments and I have a few more comments which should solidify my review leading up to final review and approval.

1. The label for the existing well should mention "drilled".
2. Reconfiguration of the SDA looks good, but could extend westward towards the tree line and gain area on the corner of hole 608 if possible (see attached sketch for reference).
3. Purpose note should be in it's own box, currently note #13 under "General Notes".
4. Note #10 should explain the parameters for an SDA less than 10,000 since the house and lot was established/built prior to 1972 (we have a new system and area for 2 future systems).
5. The existing well will need to be brought up to current code, we need to determine how the well is servicing the residence to relay to the homeowner what will need to be done to ensure the well meets code requirements (e.g jet pump system, submersible pump, electrical components, etc.).

Melanie Eshenbaugh
Bureau of Environmental Health
Howard County Health Dept.
8930 Stanford Blvd. Columbia, MD 21045



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From: Zach Sill <zach@sillengineering.com>
Sent: Friday, September 15, 2023 9:32 AM
To: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Cc: Silvast, Zackary <zsilvast@howardcountymd.gov>; Paul Sill <paul@sillengineering.com>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hello Melanie,

I had a few questions I wanted to run by you before we re-submit this perc cert. I have attached the plan we submitted previously for reference.

Comment #2, you say to remove some language from the Health officer signature block. As far as I know, this same signature block has been on all our Health plans over the years. Is there something else we should be stating in this signature block? Please let me know what should be said if so, I wasn't able to see any example on the health website but maybe I missed it.

Comment #3 conflicts with the standard Sewage Disposal Area note we have placed on plans for years. Note #10 on the attached states "The county health officer shall have the authority to grant adjustments to the private sewage area. Recordation of a modified sewage area shall not be necessary." This note has been on all our Perc Certs for the past few years. Please advise how to move forward with this comment.

Best,

Zachary Sill
Civil Drafter & Designer
Erosion & Sediment Control No. RPC016242



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC

16005 Frederick Road, 2nd Floor
Woodbine, MD 21797
Office: 443-325-5076 ext. 107 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Sent: Thursday, August 31, 2023 1:29 PM
To: Zach Sill <zach@sillengineering.com>
Cc: Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

Good afternoon Zach,

After review of the submitted perc certification plan, I have the following revision comments:

1. The area proposed between hole 605 & 601 just below the existing trench would be unusable given the proximity to the failed hole 604. Suggest gaining area between holes 602 & 607 above contours 372 & 374 extending to hole 607.
2. Block for Health Office signature mentions in accordance with the "Master Plan of Howard County" and should be removed as this portion of the statement doesn't apply.
3. Add the note stating " Any changes to a private sewage disposal area shall require a revised percolation certification plan."
4. Note 12 mentions replacement well locations which doesn't apply due to the existing well being shown without alternate well site or well box locations.
5. The perc holes should have spot elevations for each tested boring.
6. The designated symbol "F" for future wells should have a 100' well arc around them.
7. Suggest showing the septic for 13081 Wainwright Road.
8. Add a symbol in the legend for the existing well.

We look forward to your re-submittal and let us know if you have any questions. Hope you have a great rest of your day and thank you.

Melanie Eshenbaugh
Bureau of Environmental Health
Howard County Health Dept.
8930 Stanford Blvd. Columbia, MD 21045
www.hchealth.org



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From: Eshenbaugh, Melanie
Sent: Friday, August 18, 2023 11:05 AM
To: Zach Sill <zach@sillengineering.com>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

Good morning Zach,

Please do submit the paper copies to our office as that is our process/procedure for review. Also, yes there will be a few comments concerning the electronic copy you sent to us based on a preliminary review. Thank you kindly.

Melanie Eshenbaugh
Bureau of Environmental Health
Howard County Health Dept.
8930 Stanford Blvd. Columbia, MD 21045
www.hchealth.org



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From: Zach Sill <zach@sillengineering.com>
Sent: Friday, August 18, 2023 10:35 AM
To: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Cc: Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: FW: 13071 Wainwright Road - Gray property Perc App

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hi Melanie,

Just checking in to see if you had seen my previous email. I'm coming by Health today for another project, and plan to drop off paper copies of this plan.

Thanks,

Zachary Sill
Civil Drafter & Designer
Erosion & Sediment Control No. RPC016242



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC
16005 Frederick Road, 2nd Floor
Woodbine, MD 21797
Office: 443-325-5076 ext. 107 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Zach Sill
Sent: Thursday, August 17, 2023 9:40 AM
To: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Cc: Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

Hello,

Please see the attached revised SDA area. I would like to submit paper copies this afternoon, but wanted to run the SDA by you before I dropped them off. The shape is pretty odd due to the location of the failed tests.

Thank you,

Zachary Sill
Civil Drafter & Designer
Erosion & Sediment Control No. RPC016242



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC
16005 Frederick Road, 2nd Floor
Woodbine, MD 21797
Office: 443-325-5076 ext. 107 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Sent: Friday, August 04, 2023 11:59 AM
To: Zach Sill <zach@sillengineering.com>
Cc: Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

Good afternoon Zach,

Please see attached perc test report and results for Wainwright Rd., at the Gray property and let us you know if you have any questions. Have a wonderful weekend!

Melanie Eshenbaugh
Bureau of Environmental Health
Howard County Health Dept.
8930 Stanford Blvd. Columbia, MD 21045
www.hchealth.org



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From: Zach Sill <zach@sillengineering.com>
Sent: Tuesday, August 1, 2023 9:00 AM
To: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Cc: Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hello Melanie,

When should I expect the results of the perc test? Judging by the invoice from Fogles, it looks like only a few holes passed and some extras were dug. That is a bit concerning.

Thank you!

Zachary Sill
Civil Drafter & Designer
Erosion & Sediment Control No. RPC016242



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SEG LAND SURVEYING, LLC

16005 Frederick Road, 2nd Floor
Woodbine, MD 21797
Office: 443-325-5076 ext. 107 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Sent: Tuesday, July 25, 2023 9:37 AM
To: Zach Sill <zach@sillengineering.com>
Cc: Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

Good morning,

I was informed that the repair had recently taken place within the past few years, at the time the percs were staked the lines of the existing septic system should have been flagged. To save time, we are just going to deal with it in the field ourselves by moving the stake during testing. I will mark July 28th on the perc test calendar, thank you kindly.

Melanie Eshenbaugh
Bureau of Environmental Health
Howard County Health Dept.
8930 Stanford Blvd. Columbia, MD 21045
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From: Zach Sill <zach@sillengineering.com>
Sent: Tuesday, July 25, 2023 8:11 AM
To: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>

Cc: Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hello,

That's pretty short notice to have the existing trenches marked for perc testing since it's a bit more involved than having my Survey guy go drive some stakes. We would appreciate a bit more of a heads up in the future since were not always staking out existing trenches for perc testing. Most recently, I had another project on Saint Michaels Road where we were not asked to stake existing trenches. I'll speak with Fogles and see what I can do about getting the existing trenches staked. If they cant do it in the next few days, do we have to reschedule our testing?

Thank you,

Zachary Sill
Civil Drafter & Designer
Erosion & Sediment Control No. RPC016242



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC

16005 Frederick Road, 2nd Floor
Woodbine, MD 21797
Office: 443-325-5076 ext. 107 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Sent: Monday, July 24, 2023 5:15 PM
To: Zach Sill <zach@sillengineering.com>
Cc: Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

OK great, please ensure the existing trenches are marked prior to the test date. Thank you kindly and have a nice evening.

Melanie Eshenbaugh
Bureau of Environmental Health
Howard County Health Dept.
8930 Stanford Blvd. Columbia, MD 21045
www.hchealth.org



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From: Zach Sill <zach@sillengineering.com>
Sent: Monday, July 24, 2023 12:05 PM
To: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Cc: Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hello,

I just heard back from our septic contractor. Please set the date for 7/28.

Thank you,

Zachary Sill
Civil Drafter & Designer
Erosion & Sediment Control No. RPC016242



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC

16005 Frederick Road, 2nd Floor
Woodbine, MD 21797
Office: 443-325-5076 ext. 107 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Sent: Monday, July 24, 2023 12:01 PM
To: Zach Sill <zach@sillengineering.com>
Cc: Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

Hi Zach,

I am reaching out again to ensure that the email was received last Thursday in order to schedule testing for this property. If there is not enough advance notice with the two test dates provided on July 26th or July 28th, we can schedule into next week for August 1st or August 2nd. Please let us know so that we can confirm a test date and thank you kindly.

Melanie Eshenbaugh
Bureau of Environmental Health
Howard County Health Dept.
8930 Stanford Blvd. Columbia, MD 21045
www.hchealth.org



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From: Zach Sill <zach@sillengineering.com>
Sent: Thursday, July 20, 2023 2:06 PM
To: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Cc: Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

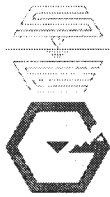
[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hello Melanie,

Please let me know what dates you have available for Perc Testing so I can keep this moving please.

Thank you,

Zachary Sill
Civil Drafter & Designer
Erosion & Sediment Control No. RPC016242



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SEG LAND SURVEYING, LLC

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Woodbine, MD 21797
Office: 443-325-5076 ext. 107 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Silvast, Zackary <zsilvast@howardcountymd.gov>
Sent: Tuesday, July 18, 2023 8:47 AM
To: Zach Sill <zach@sillengineering.com>
Cc: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

Good Morning Zach,

Made a site visit on Friday, everything looked good. And setbacks were measured. Melanie will be reaching out to schedule a perc shortly. Thank you.

- ZS

From: Zach Sill <zach@sillengineering.com>
Sent: Monday, July 10, 2023 11:17 AM
To: Silvast, Zackary <zsilvast@howardcountymd.gov>
Cc: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

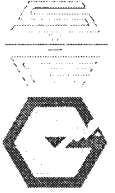
[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hello Zack,

The perc holes have been staked out at the above referenced property. Please let me know what day you intend to do a site visit, and I can let the property owner know.

Thank you,

Zachary Sill
Civil Drafter & Designer



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC

16005 Frederick Road, 2nd Floor
Woodbine, MD 21797
Office: 443-325-5076 ext. 107 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Silvast, Zackary <zsilvast@howardcountymd.gov>
Sent: Friday, June 30, 2023 6:50 PM
To: Zach Sill <zach@sillengineering.com>
Cc: Silvast, Zackary <zsilvast@howardcountymd.gov>; Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

Zach,

You guys can go ahead and stake these holes, but I would like to make a site visit before assigning it out to one of my staff and scheduling a perc date. SO let me know when the field staff has finished staking. Thank you and have a great holiday.

- ZS

From: Silvast, Zackary
Sent: Thursday, June 29, 2023 6:03 PM
To: Zach Sill <zach@sillengineering.com>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

Hey Zach,

I should have revision comments out to you by tomorrow. We have a large number of high priority projects right now and the sheer volume of all projects has been overwhelming in the office so there are some small delays going on right now. Hard to keep a 10 business day rule on everything when you have hundreds of ongoing projects. I also cannot control office days lost through perc testing, field work, sick days, holidays, and vacations. But to be honest I've had little let up since April.

Once the revisions come back in, I will assign a specific plan reviewer to this project. I do not assign late projects on my team, I always take responsibility and am catching up on things. It is in my queue and has not been forgotten.

Thank you!

- ZS

From: Zach Sill <zach@sillengineering.com>
Sent: Thursday, June 29, 2023 2:29 PM

To: Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: FW: 13071 Wainwright Road - Gray property Perc App

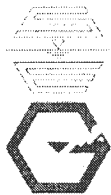
[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hello Mr. Silvast,

I'm emailing you to inquire about the review of the above referenced perc app. I'm looking to find out who the reviewer is, so I can check in with them on the review. We submitted this perc app on June 1st.

Thank you!

Zachary Sill
Civil Drafter & Designer



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC
16005 Frederick Road, 2nd Floor
Woodbine, MD 21797
Office: 443-325-5076 ext. 107 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Oswald, Hank <hoswald@howardcountymd.gov>
Sent: Wednesday, June 21, 2023 10:22 AM
To: Zach Sill <zach@sillengineering.com>
Subject: RE: 13071 Wainwright Road - Gray property Perc App

Hi Zach:

I forwarded your email to my supervisor Zack Silvast. His email address is zsilvast@howardcountymd.gov. His # is 410.313.1777 Hopefully, he will get back to you soon.

Thanks,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Bureau of Environmental Health
Howard County Health Department
8930 Stanford Blvd. Columbia, MD 21045
(410) 313 - 1786
www.hchealth.org

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From: Zach Sill <zach@sillengineering.com>
Sent: Wednesday, June 21, 2023 9:45 AM

To: Oswald, Hank <hoswald@howardcountymd.gov>
Subject: 13071 Wainwright Road - Gray property Perc App

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hey Hank,

I submitted the above referenced Per App on June 1 and have yet to hear anything on it. Would you happen to know who the reviewer is?

Thanks in advance,

Zachary Sill
Civil Drafter & Designer
Erosion & Sediment Control No. RPC016242



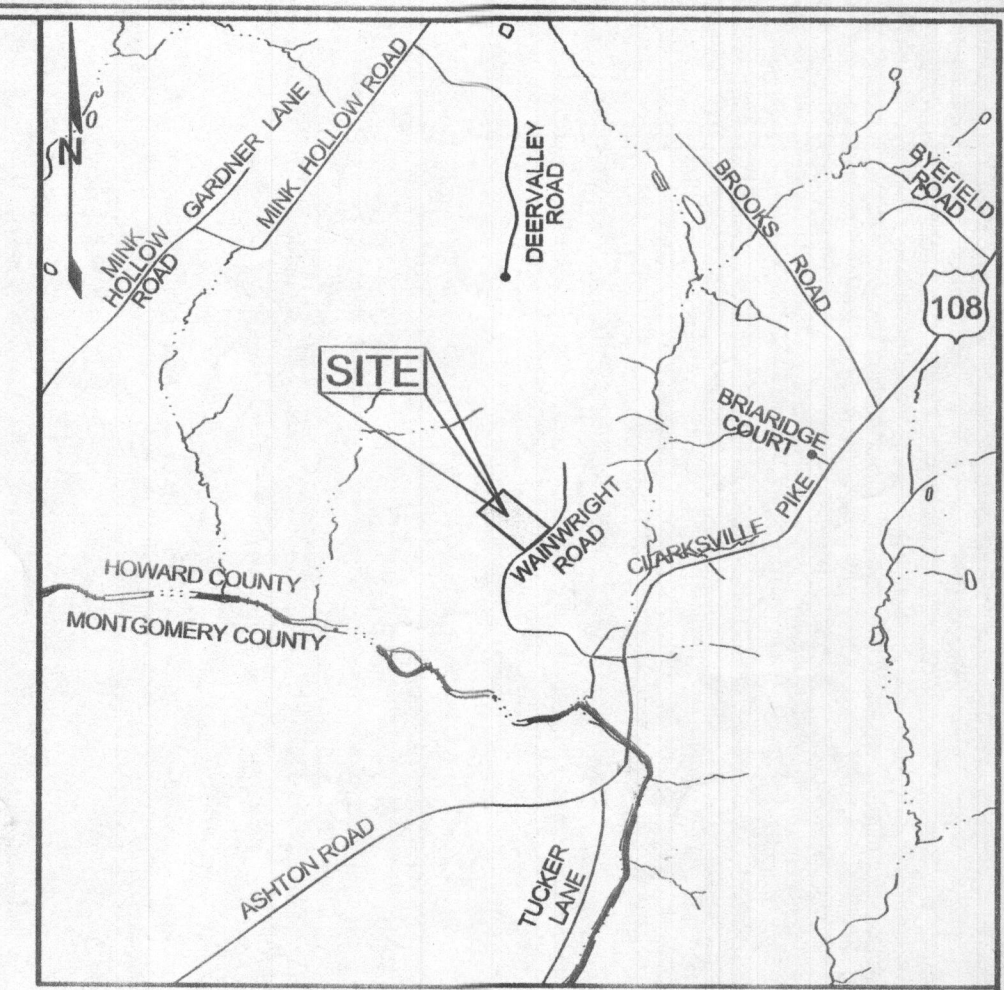
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SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GaC	GAILA LOAM, 8 TO 15 PERCENT SLOPES	B	0.55
GmC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES	C/D	0.37
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	0.28

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE; NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

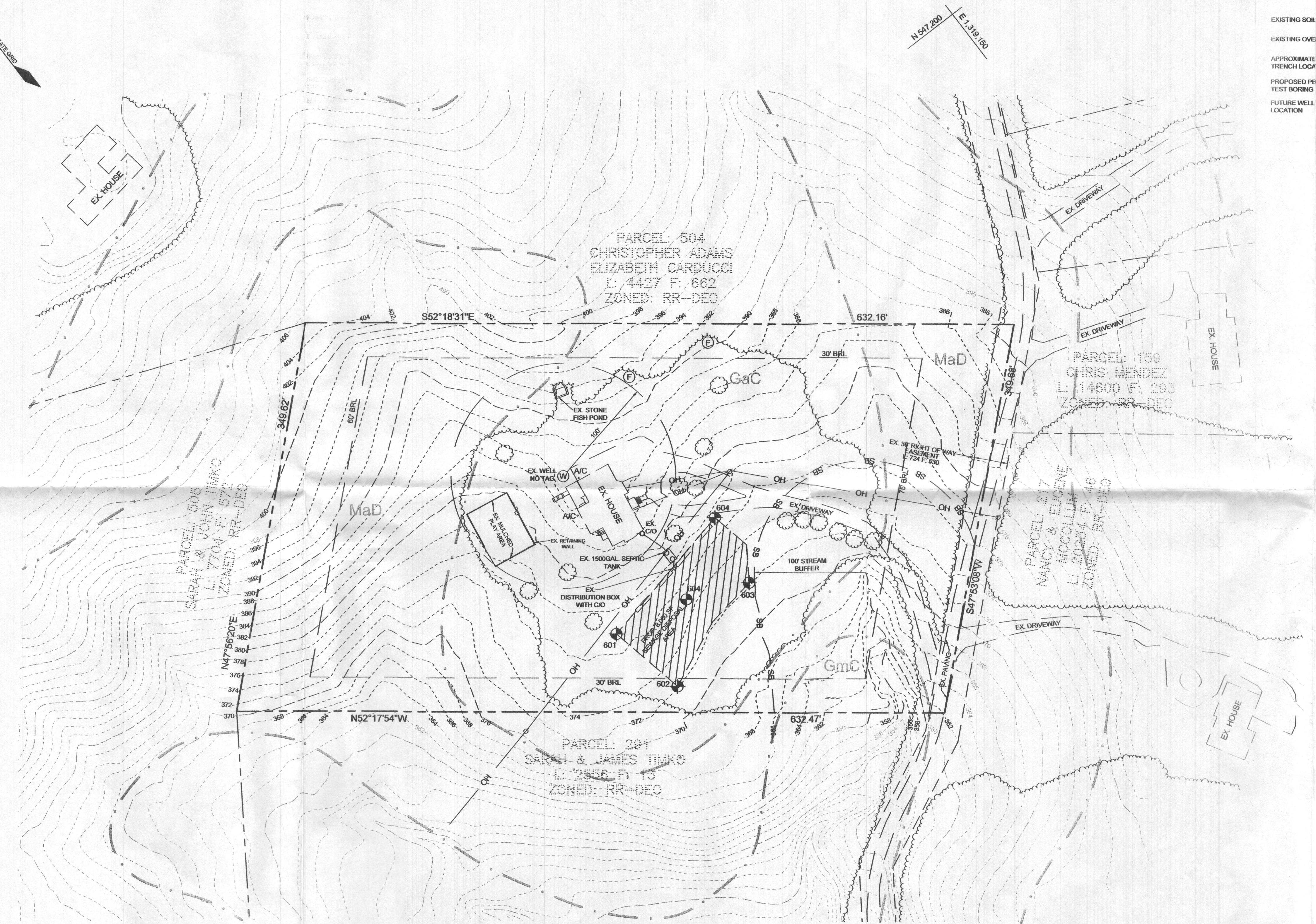
LEGEND

- EXISTING CONTOUR(GIS)
- EXISTING CONTOUR(FIELD RUN)
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING TREE
- EXISTING UTILITY POLE
- EXISTING INTERMITTENT STREAM
- EXISTING SOILS
- EXISTING OVERHEAD WIRE
- APPROXIMATE EXISTING TRENCH LOCATION
- PROPOSED PERCOLATION TEST BORING
- FUTURE WELL REPLACEMENT LOCATION



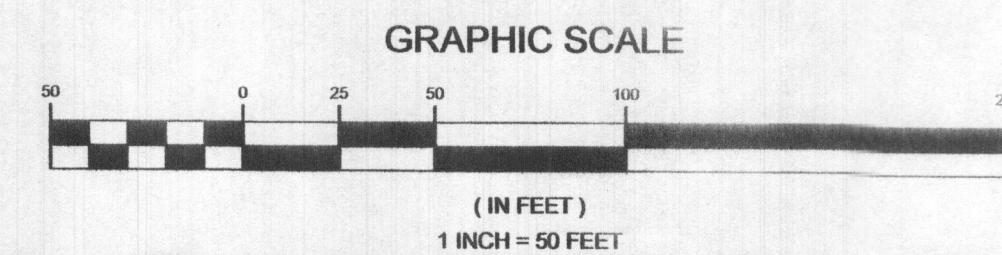
GENERAL NOTES

1. SUBJECT PROPERTY ZONED RR-DEO PER 10/06/2013 COMPREHENSIVE ZONING PLAN.
2. TOTAL AREA OF PROPERTY = 4.99 AC.
3. DEED REFERENCE: LIBER: 21620 FOLIO: 217.
4. PROPERTY ADDRESS: 13071 WAINWRIGHT ROAD, HIGHLAND MD 20777.
5. PRIVATE WATER AND PRIVATE SEPTIC WILL BE USED WITHIN THIS SITE.
6. THE BOUNDARY SHOWN HERE ON IS BASED ON A BOUNDARY SURVEY PERFORMED BY SEG LAND SURVEYING, LLC IN APRIL OF 2023.
7. THE TOPOGRAPHY SHOWN WITHIN THE DEVELOPMENT AREA IS BASED ON A TOPOGRAPHIC SURVEY PERFORMED BY SEG LAND SURVEYING, LLC IN APRIL OF 2023. TOPOGRAPHY OUTSIDE OF THE AREA OF DEVELOPMENT IS BASED ON HOWARD COUNTY GIS FLOWN IN 2018.
8. SILL ENGINEERING GROUP, LLC HAS COMPLETED A FIELD REVIEW AND ASSESSMENT OF THE REFERENCED PROJECT SITE. AN INTERMITTENT STREAM WAS FOUND TO RUN PARALLEL TO WAINWRIGHT ROAD INSIDE OF A DEEP RAVINE.
9. THE LOT SHOWN HERON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
10. THIS AREA DESIGNATES A PRIVATE SEWAGE AREA, AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 28.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDED OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
11. ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREA WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREA HAVE BEEN FIELD LOCATED.
12. THE PURPOSE OF THIS PLAN IS TO ESTABLISH A SEWAGE DISPOSAL AREA AND REPLACEMENT WELL LOCATIONS FOR PARCEL 39 TO ACCOMMODATE A PROPOSED SECOND FLOOR ADDITION.



PLAN VIEW
SCALE: 1"=50'

WAINWRIGHT ROAD
30' RW
PRIVATE ROAD



OWNER
OLIVER & TIFFANY GRAY
13071 WAINWRIGHT ROAD
HIGHLAND, MARYLAND 20777

PERCOLATION APPLICATION PLAN
GRAY PROPERTY
 13071 WAINWRIGHT ROAD
 TAX MAP 40 GRID 9
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 PARCEL 39

	SILL ENGINEERING GROUP, LLC	DESIGN BY: PS
	16005 Frederick Road, 2nd Floor Woodbine, Maryland 21797 Phone: 443.325.5076 Fax: 410.696.2022 Email: info@sillengineering.com Civil Engineering for Land Development	DRAWN BY: SZS
		CHECKED BY: PS
		SCALE: AS SHOWN
		DATE: MAY 24, 2023
		PROJECT #: 23-027
		SHEET #: 1 of 1

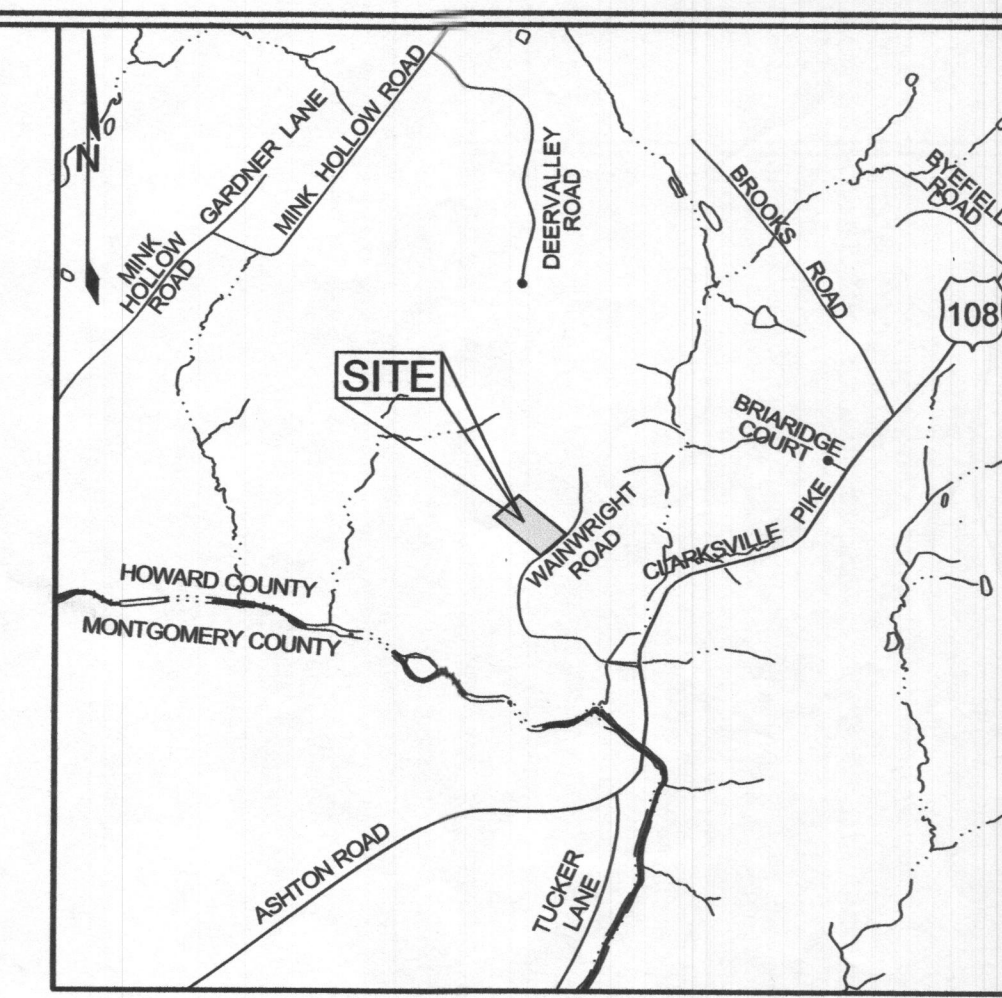
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 92025, EXPIRATION DATE: JUNE 29, 2025.

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GaC	GAILA LOAM, 8 TO 15 PERCENT SLOPES	B	0.56
GmC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES	CD	0.37
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	0.28

NOTES:
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LEGEND

- EXISTING CONTOUR(GIS)
- EXISTING CONTOUR(FIELD RUN)
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING TREE
- EXISTING UTILITY POLE
- EXISTING INTERMITTENT STREAM
- EXISTING SOILS
- EXISTING OVERHEAD WIRE
- APPROXIMATE EXISTING TRENCH LOCATION
- PERCOLATION TEST BORING: PASSED
- PERCOLATION TEST BORING: FAILED
- FUTURE WELL REPLACEMENT LOCATION
- EXISTING WELL LOCATION



VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES

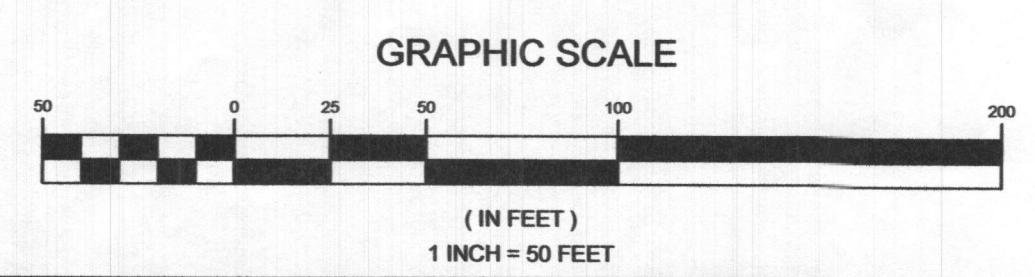
- SUBJECT PROPERTY ZONED RR-DEO PER 10/06/2013 COMPREHENSIVE ZONING PLAN.
- TOTAL AREA OF PROPERTY = 4.99 AC ±
- DEED REFERENCE: LIBER: 21620 FOLIO: 217
- PROPERTY ADDRESS: 13071 WAINWRIGHT ROAD, HIGHLAND MD 20777
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- SILL ENGINEERING GROUP, LLC HAS COMPLETED A FIELD REVIEW AND ASSESSMENT OF THE REFERENCED PROJECT SITE. AN INTERMITTENT STREAM WAS FOUND TO RUN PARALLEL TO WAINWRIGHT ROAD INSIDE OF A DEEP RAVINE.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- THIS AREA DESIGNATES A PRIVATE SEWAGE AREA, AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
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PERCOLATION HOLE ELEVATIONS	
PERC HOLE	ELEVATION
601	376.90
602	372.47
603	372.23
604	374.63
605	376.48
606	371.86
607	376.79
608	378.99



PLAN VIEW
SCALE: 1"=50'

WAINWRIGHT ROAD
30' RW
PRIVATE ROAD



OWNER
OLIVER & TIFFANY GRAY
13071 WAINWRIGHT ROAD
HIGHLAND, MARYLAND 20777

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

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.

PAUL M. SILL, PE, LEED AP
LICENSED PROFESSIONAL ENGINEER #32025
DATE: 9/19/23

COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

PERCOLATION CERTIFICATION PLAN
GRAY PROPERTY
13071 WAINWRIGHT ROAD

TAX MAP 40 GRID 9
5TH ELECTION DISTRICT

PARCEL 39
HOWARD COUNTY, MARYLAND

SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: S2S
CHECKED BY: PS
SCALE: AS SHOWN
DATE: SEPTEMBER 19, 2023
PROJECT #: 23-027
SHEET #: 1 of 1

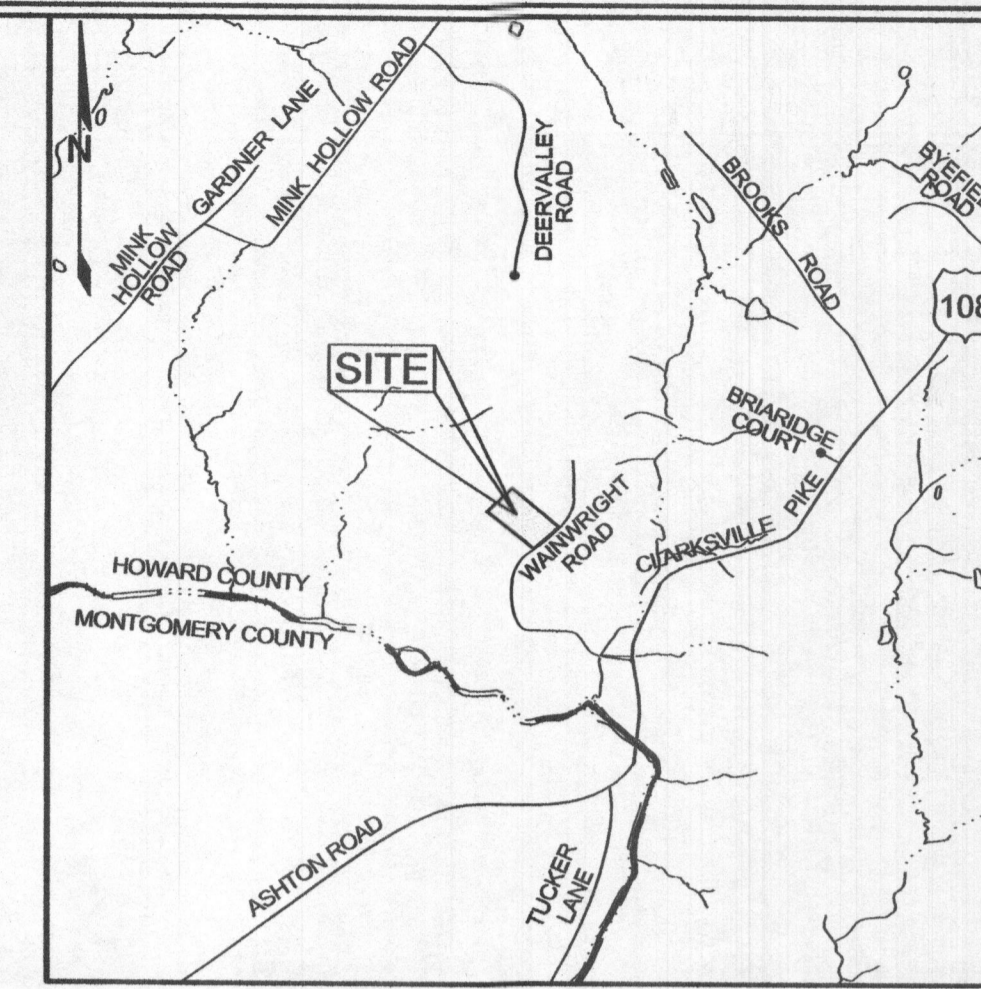
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SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
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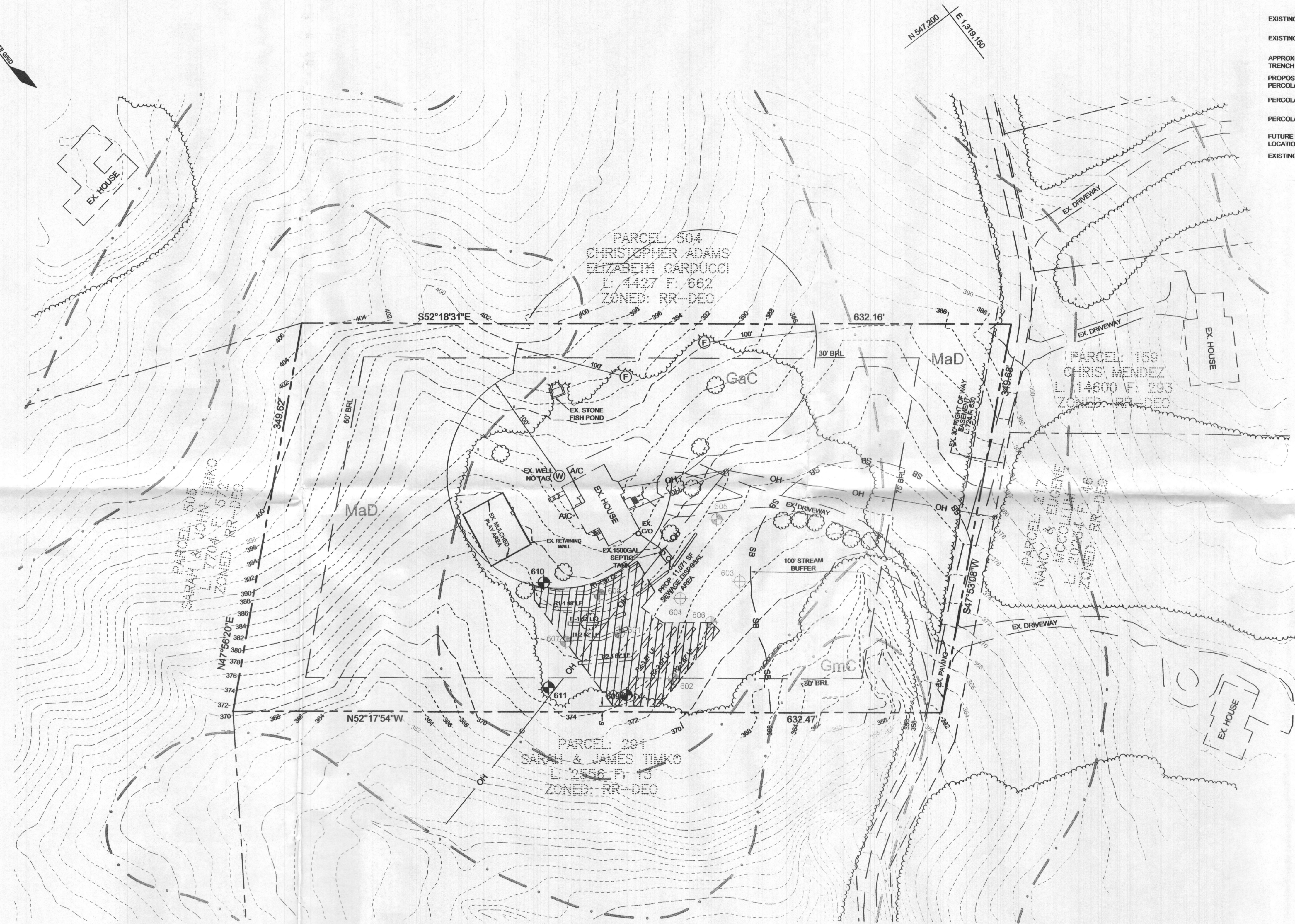
VICINITY MAP
SCALE: 1"=2000'

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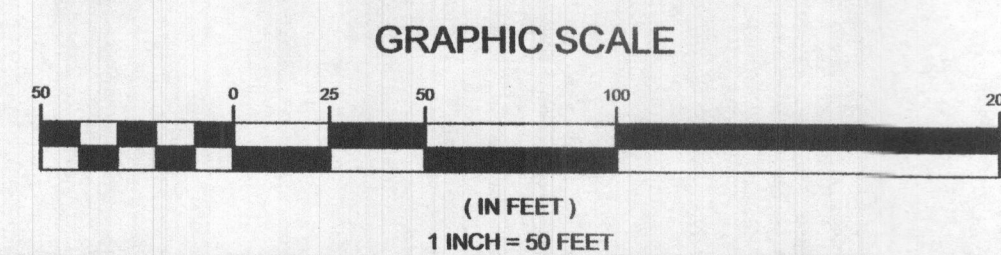
PERCOLATION HOLE ELEVATIONS

PERC HOLE	ELEVATION
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603	372.23
604	374.63
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608	378.99



PLAN VIEW
SCALE: 1"=50'

WAINWRIGHT ROAD
30' R/W
PRIVATE ROAD



OWNER
OLIVER & TIFFANY GRAY
13071 WAINWRIGHT ROAD
HIGHLAND, MARYLAND 20777

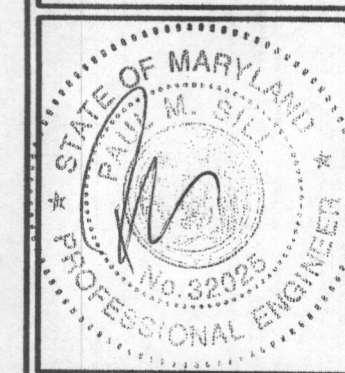
PERCOLATION CERTIFICATION PLAN

GRAY PROPERTY

13071 WAINWRIGHT ROAD

TAX MAP 40 GRID 9
5TH ELECTION DISTRICT

PARCEL 39
HOWARD COUNTY, MARYLAND



SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: SZS
CHECKED BY: PS
SCALE: AS SHOWN
DATE: DECEMBER 14, 2023
PROJECT #: 23-027
SHEET #: 1 of 1

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2025.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

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.

COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

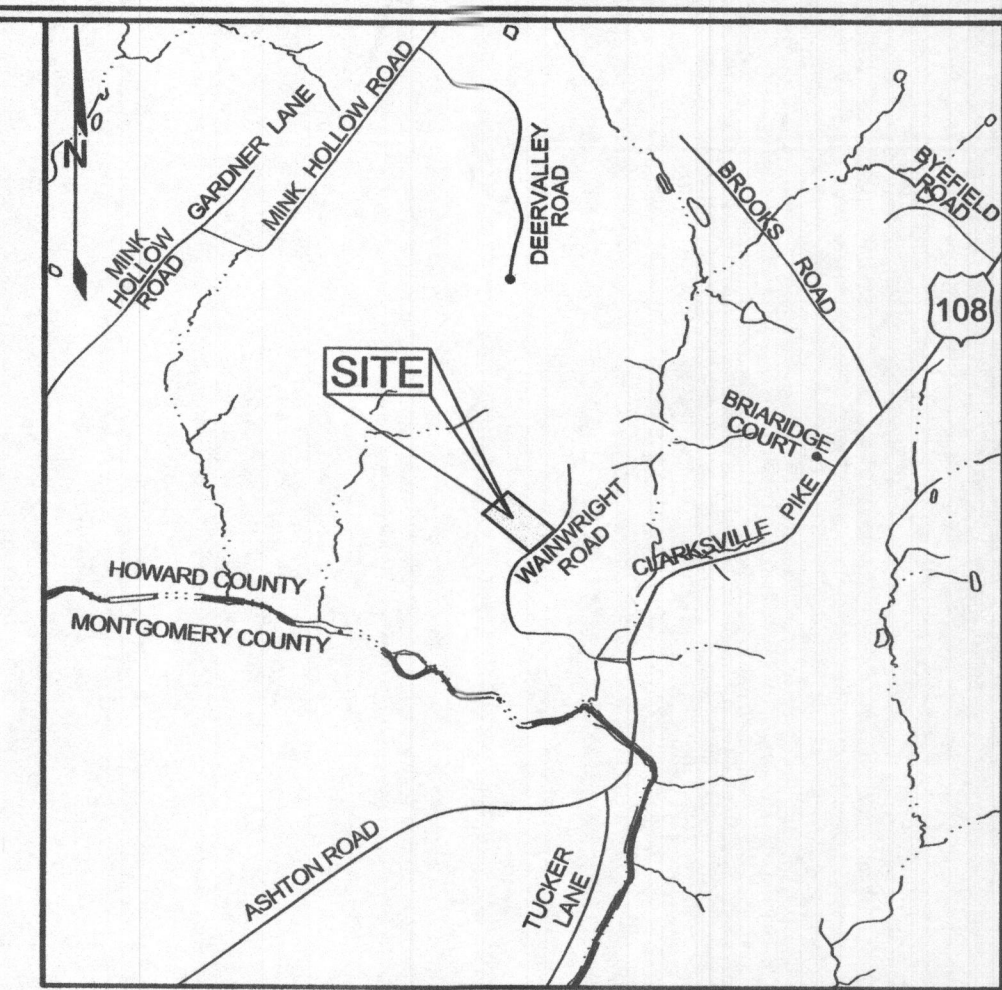
PAUL M. SILL, P.E., LEED AP
LICENSED PROFESSIONAL ENGINEER #32025
DATE: 12/14/23

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GaC	GAILA LOAM, 8 TO 15 PERCENT SLOPES	B	0.55
GmC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES	C/D	0.37
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	0.28

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE; NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

LEGEND

- EXISTING CONTOUR(GIS) 382
- EXISTING CONTOUR(FIELD RUN) 382
- PROPOSED CONTOUR 382
- EXISTING SPOT ELEVATION
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING TREE
- EXISTING UTILITY POLE
- EXISTING INTERMITTENT STREAM
- EXISTING SOILS GaC
- EXISTING OVERHEAD WIRE OH
- APPROXIMATE EXISTING TRENCH LOCATION
- PERCOLATION TEST BORING: PASSED 601
- PERCOLATION TEST BORING: FAILED 605
- FUTURE DRILLED WELL REPLACEMENT LOCATION F
- EXISTING JET WELL LOCATION W

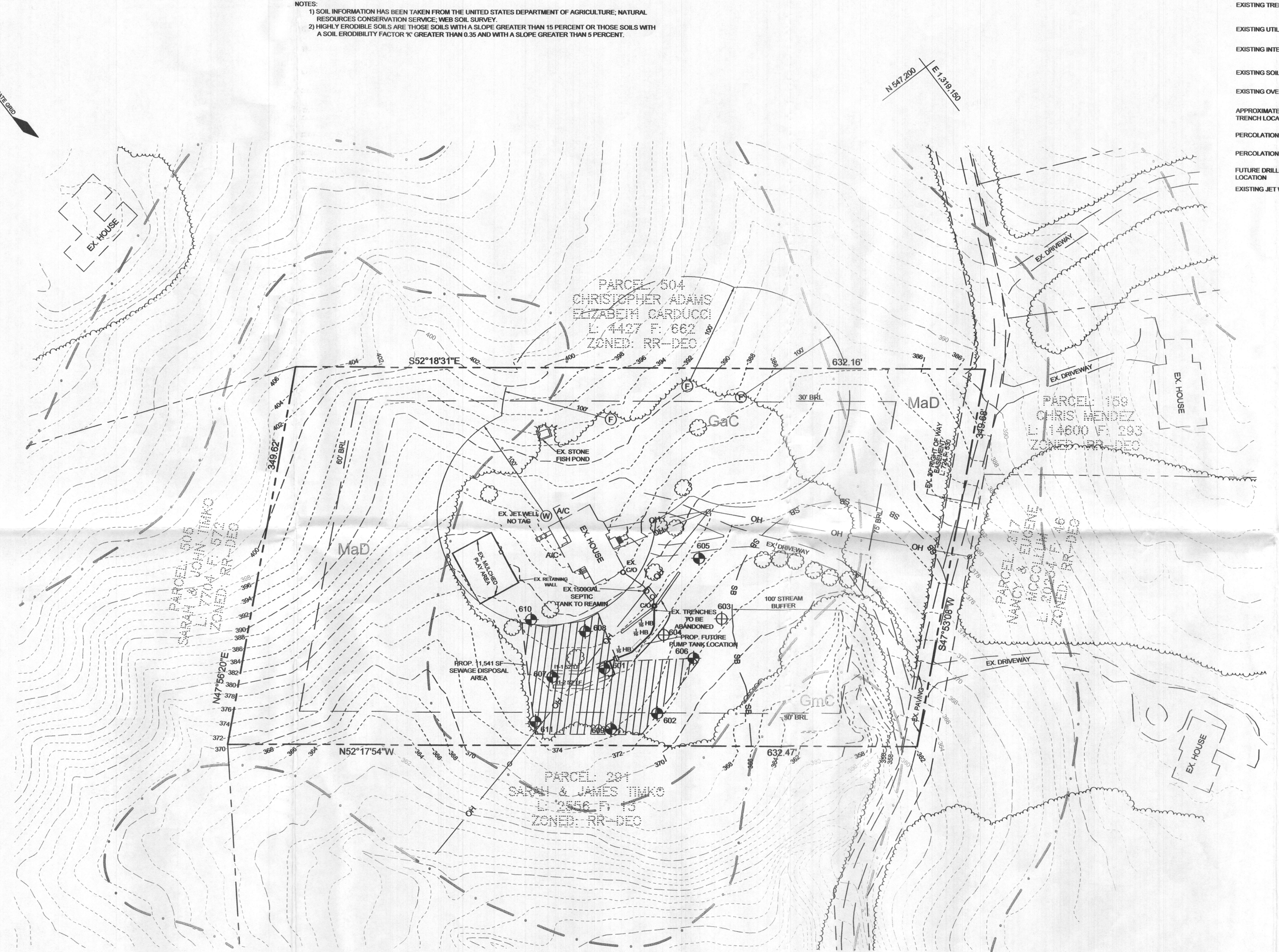


VICINITY MAP
SCALE: 1"=200'

GENERAL NOTES

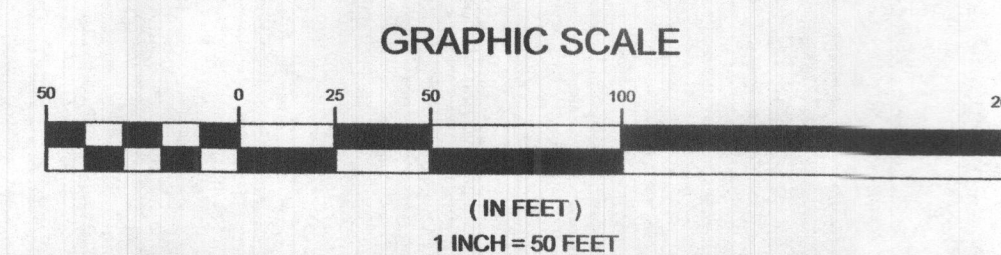
1. SUBJECT PROPERTY ZONED RR-DEO PER 1006/2013 COMPREHENSIVE ZONING PLAN.
2. TOTAL AREA OF PROPERTY = 4.99 AC ±
3. DEED REFERENCE: LIBER: 21620 FOLIO: 217
4. PROPERTY ADDRESS: 13071 WAINWRIGHT ROAD, HIGHLAND MD 20777
5. PRIVATE WATER AND PRIVATE SEPTIC WILL BE USED WITHIN THIS SITE.
6. THE BOUNDARY SHOWN HERE ON IS BASED ON A BOUNDARY SURVEY PREFORMED BY SEG LAND SURVEYING, LLC IN APRIL OF 2023.
7. THE TOPOGRAPHY SHOWN WITHIN THE DEVELOPMENT AREA IS BASED ON A TOPOGRAPHIC SURVEY PREFORMED BY SEG LAND SURVEYING, LLC IN APRIL OF 2023. TOPOGRAPHY OUTSIDE OF THE AREA OF DEVELOPMENT IS BASED ON HOWARD COUNTY GIS FLOWN IN 2018.
8. SILL ENGINEERING GROUP, LLC HAS COMPLETED A FIELD REVIEW AND ASSESSMENT OF THE REFERENCED PROJECT SITE. AN INTERMITTENT STREAM WAS FOUND TO RUN PARALLEL TO WAINWRIGHT ROAD INSIDE OF A DEEP RAVINE.
9. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
10. THIS AREA DESIGNATES A PRIVATE SEWAGE AREA, AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
11. ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREA WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREA HAVE BEEN FIELD LOCATED.
12. ANY CHANGES TO THE PRIVATE SEWAGE DISPOSAL AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
13. EXISTING SEPTIC SYSTEM WILL BE PROPERLY ABANDONED & A NEW SEPTIC SYSTEM WILL BE INSTALLED TO ACCOMMODATE A 5 BEDROOM DWELLING.
14. A PUMP PIT WILL BE REQUIRED FOR A FUTURE REPLACEMENT SYSTEM. PLEASE SEE LOCATION THIS SHEET.
15. FINAL BUILDING PERMIT APPROVAL WILL NOT BE GIVEN UNTIL A ON-SITE SEWAGE DISPOSAL SYSTEM PLAN IS APPROVED AND THE APPROVED SEPTIC SYSTEM HAS BEEN INSTALLED & INSPECTED.
16. CURRENT PROPERTY OWNERS ARE ALLOWED TO RETAIN THEIR JET WELL BASED SOLELY ON THE FACT THAT IT HAD UNDERGONE WATER SAMPLING TESTS IN 2022 & PASSED.
17. THE PURPOSE OF THIS PLAN IS TO ESTABLISH A SEWAGE DISPOSAL AREA AND REPLACEMENT WELL LOCATIONS FOR PARCEL 39 TO ACCOMMODATE A PROPOSED SECOND FLOOR ADDITION.
18. The seps plan will show how 3 systems can fit within the sda, or 2 systems with a BAT unit.

PERCOLATION HOLE ELEVATIONS	
PERC HOLE	ELEVATION
601	376.90
602	372.47
603	372.23
604	374.63
605	376.48
606	371.86
607	376.79
608	378.99
609	374.29
610	378.69
611	374.56



PLAN VIEW
SCALE: 1"=50'

WAINWRIGHT ROAD
30' RW PRIVATE ROAD



OWNER
OLIVER & TIFFANY GRAY
13071 WAINWRIGHT ROAD
HIGHLAND, MARYLAND 20777

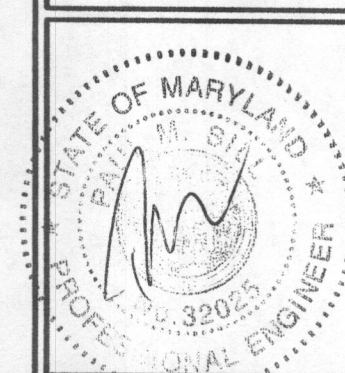
PERCOLATION CERTIFICATION PLAN

GRAY PROPERTY

13071 WAINWRIGHT ROAD

TAX MAP 40 GRID 9
5TH ELECTION DISTRICT

PARCEL 39
HOWARD COUNTY, MARYLAND



SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: SZS
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: FEBRUARY 16, 2024
 PROJECT #: 23-027
 SHEET #: 1 of 1

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 PAUL M. SILL, PE, LEED AP
 LICENSED PROFESSIONAL ENGINEER #32025
 DATE: 2/16/24

