

Bureau of Environmental Health
 7178 Gateway Drive Columbia, MD 21046
 (410) 313-2640 Fax (410) 313-2648
 TDD (410) 313-2323 Toll Free 1-866-313-6300
 website: www.hchealth.org

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

APPLICATION FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME _____ LOT# New Lot
 PROPERTY ADDRESS 16035 Carrs Mill Rd Woodbine 21797
STREET TOWN ZIP
 TAX ACCOUNT # 04-315561 TAX MAP 0008 GRID 0019 PARCEL 0185 ZONING DESIGNATION REDEO

PROPERTY OWNER(S)

Guizhi Liang / Yonghui Yang
 DAYTIME PHONE _____ CELL 7346048307 EMAIL Liangguizhi@yahoo.com
 MAILING ADDRESS 11803 Chapel Woods Ct Clarksville 21029
STREET CITY, STATE ZIP

APPLICANT

Guizhi Liang RELATIONSHIP TO OWNER: owner
 DAYTIME PHONE _____ CELL 7346048307 EMAIL Liangguizhi@yahoo.com
 MAILING ADDRESS _____
STREET CITY, STATE ZIP

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

BUILDING:

- RESIDENTIAL WITH 3 EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
- COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

PROPERTY:

- SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: 2
- CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
- REPAIR OR REPLACE FAILING OSDS
- UPGRADE EXISTING OSDS

IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- YES
- NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

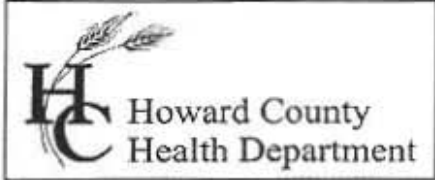
- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
- THE APPLICATION FEE IS NON-REFUNDABLE
- THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE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

4/7/2015
 DATE



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 website: www.hchealth.org

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

APPLICATION FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME _____ LOT # with house
 PROPERTY ADDRESS 16035 Carrs Mill Rd Woodbine 21797
STREET TOWN ZIP
 TAX ACCOUNT # 04-315561 TAX MAP 0008 GRID 0019 PARCEL 0185 ZONING DESIGNATION REDE0

PROPERTY OWNER(S) Guizhi Liang / Yonghui Yang

DAYTIME PHONE _____ CELL 7346048307 EMAIL Liangguizhi@yahoo.com

MAILING ADDRESS 11803 Chapel Woods Ct Clarksville 21029
STREET CITY, STATE ZIP

APPLICANT Guizhi Liang RELATIONSHIP TO OWNER: owner

DAYTIME PHONE _____ CELL 7346048307 EMAIL Liangguizhi@yahoo.com

MAILING ADDRESS _____
STREET CITY, STATE ZIP

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

- BUILDING:**
 RESIDENTIAL WITH 3 EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
 COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)
- PROPERTY:**
 SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: 2
 CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
 REPAIR OR REPLACE FAILING OSDS
 UPGRADE EXISTING OSDS
- 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
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- 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] 4/7/2015
 SIGNATURE OF APPLICANT DATE

A/P _____

6001

0.7' brl

red cl

15% rock

4' Or red scl

30-40% rock

mica

12' hard bottom

6002

0.8' brl

red cl

20-25%

7' Or red scl

45-50% rock

9' dry hard bottom

6003

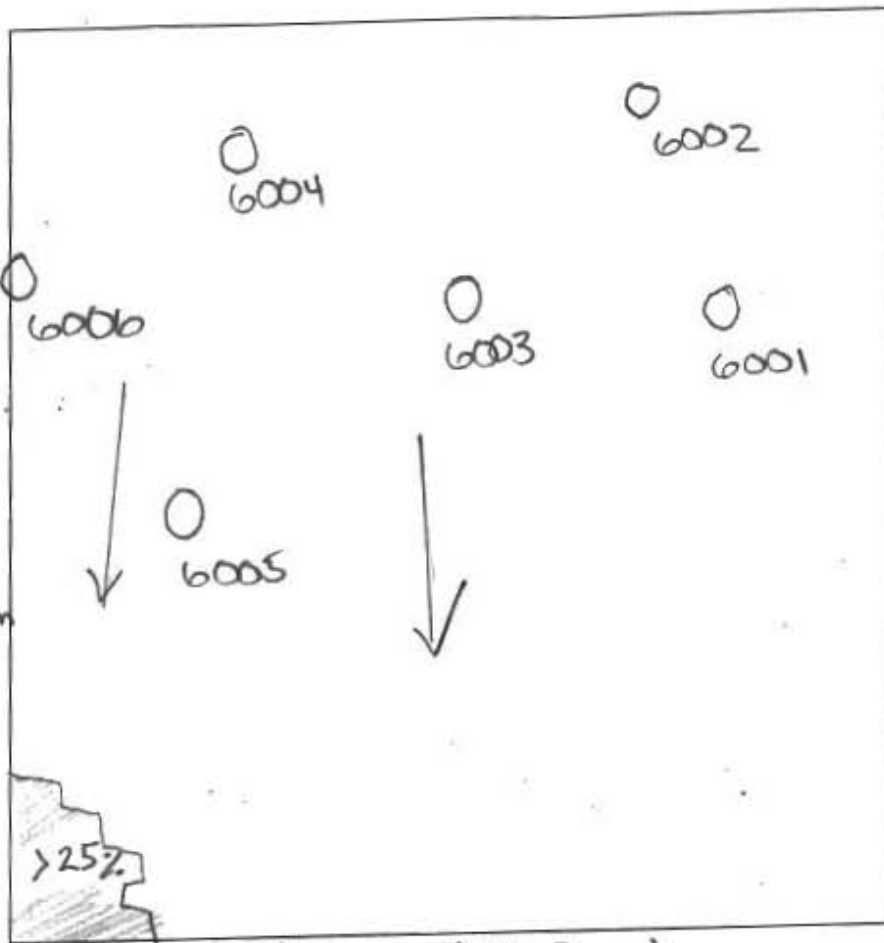
0.6' brl

red cl

>50% rock

mica

4' hard bottom



6004

0.6' brl

red cl

45-50% rock

6' hard bottom

6005

0.8' brl

red cl

25-35% rock

5' Or cl platy

>50%

9' hard bottom

6006

brl

red cl

20-30% rock

6' med platy

>50% rock

10' hard bottom

16035 Carrs Mill Road

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
1/6/16	6001	5'/12'	942	1012	1031	19	P

REMARKS _____

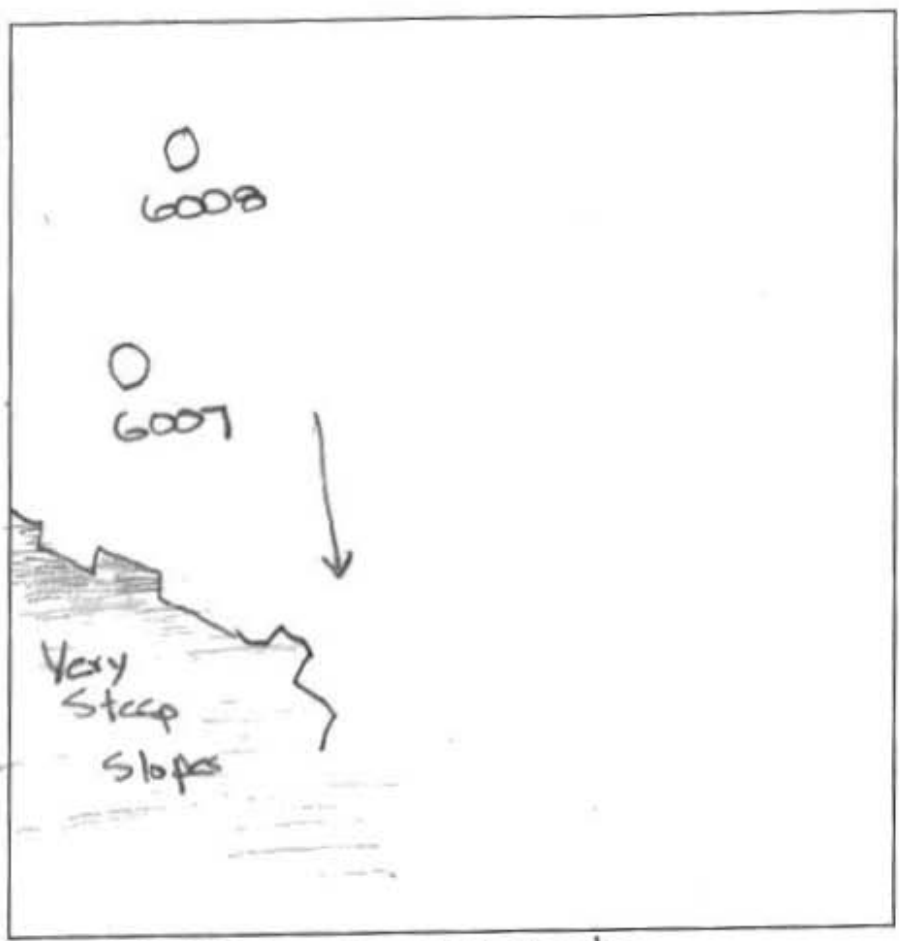
SANITARIAN H. Oswald BACKHOE Level land OTHERS Owner

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

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

A/P _____

6007
 6.7' brl
 4' rcl 10-15%
 Or. yel scl
 35-40% rock
 mica
 11.8' hard bottom



6008
 0.9' brl
 r.c.l
 40-50% rock
 7' hard bottom

16035 Carrs Mill Road

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
1/6/16	600	5 1/8'	954	1009	1053	44m	F

REMARKS _____
 SANITARIAN H. Oswald BACKHOE Leveland OTHERS Owner
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

Oswald, Hank

From: Oswald, Hank
Sent: Friday, February 05, 2016 11:26 AM
To: 'Zach Fisch'
Subject: RE: Perc Test Report_16035 Carrs Mill Road_Revised
Attachments: 16035 Carrs Mill Road_Site Drawing.pdf

Zach:

Attached is a site drawing of the well and septic component locations but no other records were found. As I mentioned to the owner, the septic tank and dry well would have to be pumped to determine its size and condition. In addition, a test hole would have to be excavated right next to the drywell to confirm buffer adequacy. While onsite, the backhoe operator attempted to dig a test hole right next to the drywell but was unsuccessful so at this point that septic system is inadequate for building permit approval of the existing project.

Please contact me with any questions.

Respectfully,

Hank

From: Zach Fisch [<mailto:zfisch@FSHERI.COM>]
Sent: Friday, February 05, 2016 10:03 AM
To: Oswald, Hank
Subject: RE: Perc Test Report_16035 Carrs Mill Road_Revised

Hank I need any available information regarding the septic and well for the existing house.

Thanks

Zacharia Y. Fisch P.E , Principal
FSH ASSOCIATES LLC
6339 Howard Lane
Elkridge MD 21075
Tel. (410)567-5200 EXT.230
Fax.(410)796-1562
E-mail zfisch@fsheri.com

From: Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]
Sent: Wednesday, February 03, 2016 4:03 PM
To: Zach Fisch <zfisch@FSHERI.COM>
Subject: RE: Perc Test Report_16035 Carrs Mill Road_Revised

Hi Zach:

Yes, we can schedule a meeting but first I would like to see if I can answer any questions that you may have about this project. Can you also provide me with an outline of what you would like to discuss during the meeting?

Thanks,

Hank

From: Zach Fisch [<mailto:zfisch@FSHERI.COM>]
Sent: Tuesday, February 02, 2016 1:18 PM
To: Oswald, Hank; Leon Liang
Subject: RE: Perc Test Report_16035 Carrs Mill Road_Revised

Hank

I would like to meet with you today to discuss this project and next steps.
Can we meet at about 3:00 – 3:30 pm today.

Thanks

Zacharia Y. Fisch P.E., Principal
FSH ASSOCIATES LLC
6339 Howard Lane
Elkridge MD 21075
Tel. (410)567-5200 EXT.230
Fax.(410)796-1562
E-mail zfisch@fsheri.com

From: Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]
Sent: Wednesday, January 13, 2016 8:13 AM
To: Leon Liang <liangguizhi@yahoo.com>
Cc: Zach Fisch <zfisch@FSHERI.COM>
Subject: RE: Perc Test Report_16035 Carrs Mill Road_Revised

Gentleman:

Correction – Test Hole 6001 passed. Please see revised report and notes.

Any questions, please don't hesitate to ask.

Hank

From: Leon Liang [<mailto:liangguizhi@yahoo.com>]
Sent: Monday, January 11, 2016 3:32 PM
To: Oswald, Hank; Zach Fisch <zfisch@FSHERI.COM> (<zfisch@FSHERI.COM>)
Subject: Re: Perc Test Report_16035 Carrs Mill Road

Hanks,

Thanks for the note.
I have two quick questions:

1. Is it hole 6001 on the right bottom corner that passed or 6007 as noted? Please double check.
2. Regarding exist system, can I still order an inspection and find out the capacity and other aspects to determine that we can continue using it, ie. adding a new bedroom or what the contractor did by digging the trench indicated that it is not usable? Please clarify.

Thank you

Leon

From: "Oswald, Hank" <hoswald@howardcountymd.gov>

To: "Liangguizhi@yahoo.com" <Liangguizhi@yahoo.com>; "Zach Fisch <zfish@FSHERI.COM>
(zfish@FSHERI.COM)" <zfish@FSHERI.COM>

Sent: Monday, January 11, 2016 2:29 PM

Subject: Perc Test Report_16035 Carrs Mill Road

Attached, please find a copy of the percolation test results and notes for 16035 Carrs 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)



Bureau of Environmental Health

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www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

January 13, 2016

To: Guizhi Liang (Owner); FSH Associates

Percolation Test Report; 16035 Carrs Mill Road (Map 8, Parcel 185)

Percolation tests were conducted at 16035 Carrs Mill Road (Tax Map 8, Parcel 185) on January 6, 2016. Tests and/or profile descriptions were documented for 8 locations (Test Holes 6001 thru 6008).

Percolation test hole #6001 passed while the other test holes failed due to a slow percolation rate, high clay and/or rock content at depths unsuitable for a trench system. In some cases, the backhoe could not dig passed depths of 4 - 7 feet.

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. Only areas that may be included in the septic reserve area are those represented by test locations having satisfactory soil condition.

The next step in the process is to have an engineer/consultant review the results of this percolation test and perhaps propose a relocated sewage disposal area for further testing. Be advised that proposed sand mound areas must be on slopes less than 12%. Contour in proposed area must be field run at 1 foot intervals before testing.

At the time of testing, a test hole was excavated next to the existing drywell. The test confirmed that the existing system is inadequate because it doesn't have a 4 foot buffer to rock/groundwater. Therefore, a new system including a BAT plus a SDA large enough to accommodate two systems would have to be established prior to Health Department approval of any building permit or subdivision.

Should you have any questions regarding this evaluation please contact me at (410) 313-1786 or by email 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: Huskins, Thomas
Sent: Tuesday, January 31, 2017 2:41 PM
To: Oswald, Hank
Cc: Kelly, Sean; Huskins, Thomas
Subject: RE: B15002792_16035 Carrs Mill Road

Hank

Thanks for the update. I have written this property owner a civil citation with a fine running at \$250.00 per day until he gets a building permit and inspections or removes the unauthorized structure. I requested an email update from you since the owner speaks in circles as to how he is proceeding.

Thanks again.

Tom Huskins
Chief Building Inspector
410-313-1811

From: Leon L [<mailto:liangguizhi@yahoo.com>]
Sent: Tuesday, January 31, 2017 1:28 PM
To: Oswald, Hank
Cc: Huskins, Thomas
Subject: Re: B15002792_16035 Carrs Mill Road

Hank,

Thanks for the prompt reply.

I will be working on revising the original application to make the space unconditioned.

We will engage our engineer regarding the sand mound system.

Thank you

Leon Liang

On Jan 31, 2017, at 12:18 PM, Oswald, Hank <hoswald@howardcountymd.gov> wrote:

Hi Leon:

The Health Department cannot sign-off on a building permit involving a living space addition until a percolation certification plan has been approved. In addition, the septic system will have to be upgraded because the existing drywell does not meet current standards. However, if you decide to go with unconditioned space (no insulation, no plumbing, no heating, cooling) and you upgrade the well (extend it above grade etc.), repair the hole in septic tank and it passes a water tight test, we may sign-off on the building permit. Otherwise, the process starts all over again with sand mound testing. You will need to submit a new perc test plan for the proposed sand mound locations (See attachment for sand mound location). Once we have a plan meeting all of the requirements, we can schedule sand

mound testing. Should this area pass, you will be required to abandon the old well and drill a new well meeting all setback requirements etc.

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)

From: Leon Liang [<mailto:liangguizhi@yahoo.com>]
Sent: Monday, January 30, 2017 10:22 AM
To: Oswald, Hank
Subject: Re: B15002792_16035 Carrs Mill Road

Good morning Hank,

Let me first try to give a quick re-cap of the background: this is our property at Carrs Mill road in Woodbine where we tried to subdivide a lot out of the existing property but got stuck in the perc test phase. We are working our engineer for a sand mound system.

Can you please email Mr. Thomas Huskins, chief building inspector at Howard County about the status of our building permit application? His email is [thuskins AT howardcountymd.gov](mailto:thuskins@howardcountymd.gov) ? Please cc me if you can.

Last time you emailed me, the status was "approval is being withheld", I assume it is the same at this point.

The reason for asking this is that recently we put dirt back to the trenches we initially tried to run drain pipes and Mr. Huskins raise questions about that among other things.

In addition, we might abandon our plan to convert the porch into a living space, however we are thinking of enclosing it as a workshop where it is not air-conditioned nor floors, in other words, to satisfy the requirement of non-living space. In that case, do your department still have to approve it since it does not increase the living space.

I will give you a quick call later this morning.

Thank you

Leon

"Building permit approval is being withheld until a scaled site plan, floor plans and percolation certification plan has been received by the Health Department."

From: "Oswald, Hank" <hoswald@howardcountymd.gov>
To: "Liangguizhi@yahoo.com" <Liangguizhi@yahoo.com>
Sent: Monday, August 31, 2015 2:25 PM
Subject: B15002792_16035 Carrs Mill Road

Attached you will find a response letter to your building permit in addition to percolation test and plan requirements plus a percolation test application.

Please contact me with any questions.

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
410.313.1786

<Sand Mound Location.pdf>

Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, January 31, 2017 12:19 PM
To: 'Leon Liang'
Cc: Huskins, Thomas
Subject: RE: B15002792_16035 Carrs Mill Road
Attachments: Sand Mound Location.pdf

Hi Leon:

The Health Department cannot sign-off on a building permit involving a living space addition until a percolation certification plan has been approved. In addition, the septic system will have to be upgraded because the existing drywell does not meet current standards. However, if you decide to go with unconditioned space (no insulation, no plumbing, no heating, cooling) and you upgrade the well (extend it above grade etc.), repair the hole in septic tank and it passes a water tight test, we may sign-off on the building permit. Otherwise, the process starts all over again with sand mound testing. You will need to submit a new perc test plan for the proposed sand mound locations (See attachment for sand mound location). Once we have a plan meeting all of the requirements, we can schedule sand mound testing. Should this area pass, you will be required to abandon the old well and drill a new well meeting all setback requirements etc.

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)

From: Leon Liang [<mailto:liangquizhi@yahoo.com>]
Sent: Monday, January 30, 2017 10:22 AM
To: Oswald, Hank
Subject: Re: B15002792_16035 Carrs Mill Road

Good morning Hank,

Let me first try to give a quick re-cap of the background: this is our property at Carrs Mill road in Woodbine where we tried to subdivide a lot out of the existing property but got stuck in the perc test phase. We are working our engineer for a sand mound system.

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I will give you a quick call later this morning.

Thank you

Leon

"Building permit approval is being withheld until a scaled site plan, floor plans and percolation certification plan has been received by the Health Department."

From: "Oswald, Hank" <hoswald@howardcountymd.gov>
To: "Liangguizhi@yahoo.com" <Liangguizhi@yahoo.com>
Sent: Monday, August 31, 2015 2:25 PM
Subject: B15002792_16035 Carrs Mill Road

Attached you will find a response letter to your building permit in addition to percolation test and plan requirements plus a percolation test application.

Please contact me with any questions.

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
410.313.1786

To: Oswald, Hank; Zach Fisch <zfisch@FSHERI.COM> (zfisch@FSHERI.COM)

Subject: Re: Perc Test Report_16035 Carrs Mill Road

Hanks,

Thanks for the note.

I have two quick questions:

1. Is it hole 6001 on the right bottom corner that passed or 6007 as noted? Please double check.
2. Regarding exist system, can I still order an inspection and find out the capacity and other aspects to determine that we can continue using it, ie. adding a new bedroom or what the contractor did by digging the trench indicated that it is not usable? Please clarify.

Thank you

Leon

From: "Oswald, Hank" <hoswald@howardcountymd.gov>

To: "Liangguizhi@yahoo.com" <Liangguizhi@yahoo.com>; "Zach Fisch <zfisch@FSHERI.COM> (zfisch@FSHERI.COM)" <zfisch@FSHERI.COM>

Sent: Monday, January 11, 2016 2:29 PM

Subject: Perc Test Report_16035 Carrs Mill Road

Attached, please find a copy of the percolation test results and notes for 16035 Carrs 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: Monday, August 31, 2015 2:26 PM
To: Lianguizhi@yahoo.com
Subject: B15002792_16035 Carrs Mill Road
Attachments: BP Response Letter_Site Plan, FPs and Perc Cert_16035 Carrs Mill_2015.pdf; Percolation and Plan Requirements.pdf; Application for Perc Testing.pdf

Attached you will find a response letter to your building permit in addition to percolation test and plan requirements plus a percolation test application.

Please contact me with any questions.

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
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Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

August 31, 2015

Guizhi Liang
11803 Chapel Woods Court
Clarksville, MD 21029

Sent via email to: LIANGGUIZHI@YAHOO.COM

RE: B15002792
16035 Carrs Mill Road
Woodbine, MD 21797

Mr. Liang:

This letter is in response to building permit #B15002792. The application describes converting an existing enclosed porch into a bedroom. Upon receipt of the paperwork, the submittal did not include a copy of the floor plans for the existing house plus proposed changes or a scaled site plan detailing the locations of the well and septic system components relative to the house and other structures on the property.

In addition, this office does not have record of an established septic reserve area on a signed percolation certification plan. According to *Howard County Code Sec 3.805*, there must be an approved percolation certification plan establishing a septic disposal area for the property prior to Health Department approval of a building permit. If one doesn't exist then it must be established prior to approval.

Also, since there is no record of the septic system for this property, it's unclear if the existing system is sized properly for the number of bedrooms in the existing house plus proposed changes. Please provide this office with details of your septic system (i.e. tank, drywell or trench sizes.) If the tank is undersized, then it will have to be upgraded to a Best Available Treatment (BAT) system. If the trenches are not to code, then they may have to be replaced.

Building permit approval is being withheld until a scaled site plan, floor plans and percolation certification plan has been received by the Health Department. I've attached a copy of the percolation test and plan requirements for developed lots in addition to the application for percolation testing. Please contact me with any questions.

Respectfully,

Hank Oswald

Hank Oswald, L.E.H.S.
Bureau of Environmental Health
Well & Septic Program
410.313.1786

Oswald, Hank

From: Oswald, Hank
Sent: Wednesday, February 03, 2016 4:03 PM
To: 'Zach Fisch'
Subject: RE: Perc Test Report_16035 Carrs Mill Road_Revised

Hi Zach:

Yes, we can schedule a meeting but first I would like to see if I can answer any questions that you may have about this project. Can you also provide me with an outline of what you would like to discuss during the meeting?

Thanks,

Hank

From: Zach Fisch [<mailto:zfisch@FSHERI.COM>]
Sent: Tuesday, February 02, 2016 1:18 PM
To: Oswald, Hank; Leon Liang
Subject: RE: Perc Test Report_16035 Carrs Mill Road_Revised

Hank
I would like to meet with you today to discuss this project and next steps.
Can we meet at about 3:00 – 3:30 pm today.

Thanks

Zacharia Y. Fisch P.E., Principal
FSH ASSOCIATES LLC
6339 Howard Lane
Elkridge MD 21075
Tel. (410)567-5200 EXT.230
Fax.(410)796-1562
E-mail zfisch@fsheri.com

From: Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]
Sent: Wednesday, January 13, 2016 8:13 AM
To: Leon Liang <liangguizhi@yahoo.com>
Cc: Zach Fisch <zfisch@FSHERI.COM>
Subject: RE: Perc Test Report_16035 Carrs Mill Road_Revised

Gentleman:

Correction – Test Hole 6001 passed. Please see revised report and notes.

Any questions, please don't hesitate to ask.

Hank

From: Leon Liang [<mailto:liangguizhi@yahoo.com>]
Sent: Monday, January 11, 2016 3:32 PM

**COMPLETE THIS FORM WHEN DROPPING OFF ANY
CORRESPONDENCE AND/OR PLANS TO THE HOWARD COUNTY
DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS COUNTER:**

Date: 8/16/15

To: Annette Pearson, Zoning
(Person's Name and Division)

From: Leon Liang (734) 604 8307
(Your Name, Company Name and Telephone Number)

Subject: Project name Sanjour conversion
Project site address 16035 Carr Mill Rd Wadsworth, OH
Permit # B15002792 SDP # _____
(Other information pertinent to this project _____)

Please check the attachments below that you are submitting with this transmittal:

- Letter of response to address plan review comment letter
- Revised plans and/or revised details: When submitting for a complete re-review, duplicate sets shall be submitted.
- Letter Summarizing Changes
- Energy conservation calculations
- Copies of conversion (be specific).
 Health Department Request DPZ/ DED Request Applicant's Request
- Two sets of single family dwelling model plans to be placed on permanent file: Model name and/or # _____
- Other _____

Contact Person Information: (Required)

Leon Liang Telephone No: 734-604-8307
Please Print Name
E-Mail Address: liang@liangarchitect.com

PLEASE ASSURE ALL DOCUMENTS AND/OR REVISIONS ARE APPROPRIATELY SIGNED AND SEALED, IF NECESSARY, BY A LICENSED ARCHITECT OR ENGINEER. PLEASE BE ADVISED THAT INSUFFICIENT INFORMATION MAY RESULT IN THE DELAY OF REVIEW BY THE PLANS EXAMINER. THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS WILL CONTACT YOU IF THERE IS A PROBLEM. IN ADDITION, ONCE THE BUILDING PERMIT IS APPROVED BY THE PLAN REVIEW DIVISION AND ALL OTHER REQUIRED SIGNATORY AGENCIES, AND THE BUILDING PERMIT IS READY FOR ISSUANCE, THE PERMIT DIVISION WILL NOTIFY THE APPROPRIATE CONTACT PERSON FOR PERMIT PICK UP. ALL PERMIT STATUS INQUIRIES SHALL BE DIRECTED TO THE PERMIT DIVISION AT 410-313-2455. CODE RELATED QUESTIONS AND PLAN REVIEW INQUIRIES SHALL BE DIRECTED TO THE PLAN REVIEW DIVISION AT 410-313-2436. PLEASE ALLOW A MINIMUM OF FIVE (5) WORKING DAYS FOR ANY PLAN SUBMITTALS TO BE REVIEWED. THANK YOU.

Received by AKH

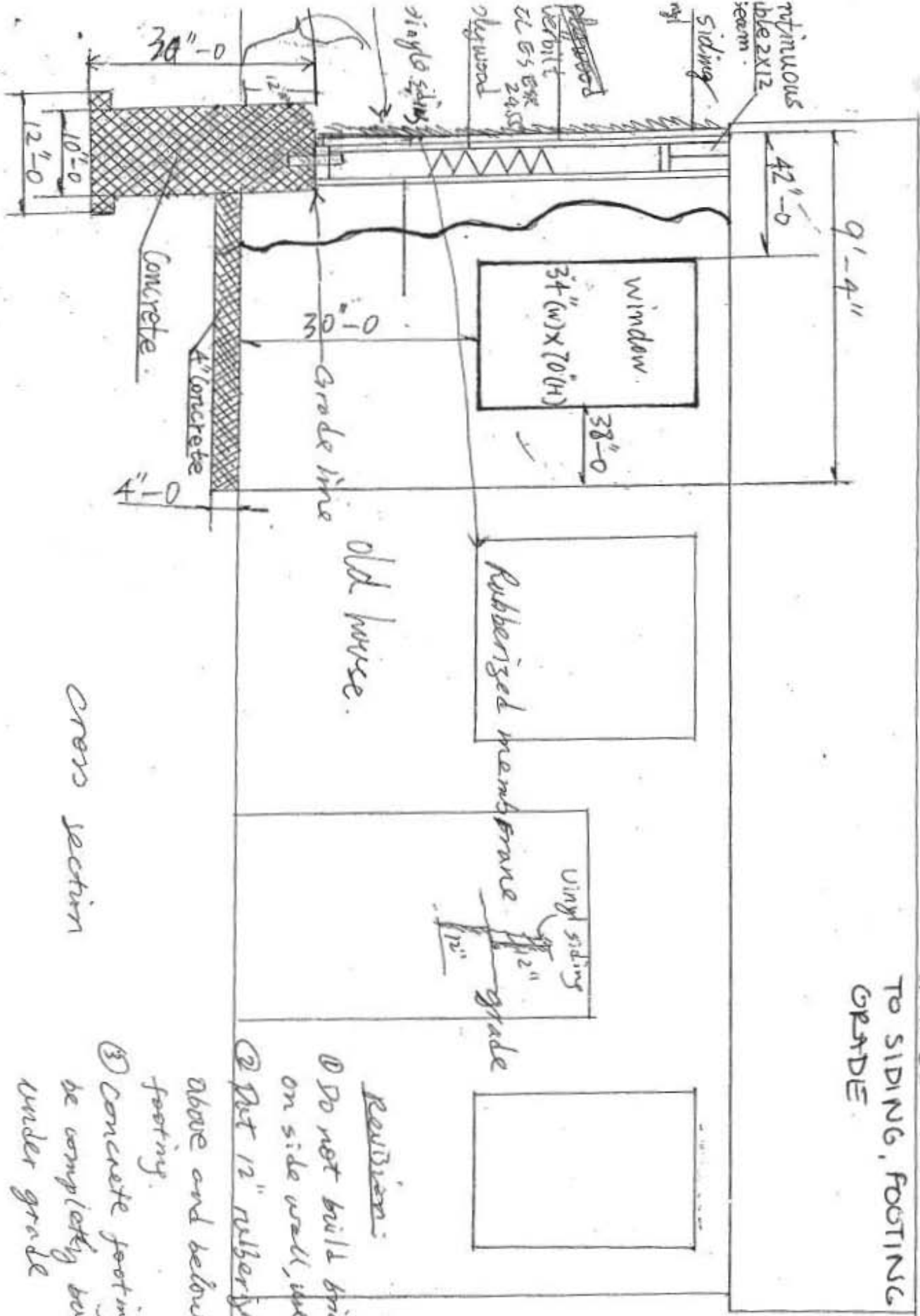
PER DPZ

REVISED

Date: 8/16/15

Comments: B15002792

TO SIDING, FOOTING BELOW GRADE



old house.

REVISION:

- ① Do not build brick veneer on side wall, use vinyl siding
- ② Put 12" rubberized membrane

above and below concrete footing.

- ③ Concrete footing will be completely buried under grade

Cross section

Oswald, Hank

From: Oswald, Hank
Sent: Thursday, June 02, 2016 3:38 PM
To: 'Leon Liang'
Subject: RE: B15002792_16035 Carrs Mill Road

Hi Leon:

Unfortunately, the Health Department couldn't sign-off on a building permit involving a living space addition until a percolation certification plan has been approved. In addition, the septic system would have to be upgraded because the existing drywell does not have a 4 foot buffer beneath it.

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

Hank

From: Leon Liang [<mailto:liangguizhi@yahoo.com>]
Sent: Wednesday, June 01, 2016 2:49 PM
To: Oswald, Hank
Subject: Re: B15002792_16035 Carrs Mill Road

Hi Hank,

It has been a while since the last activity on this property, maybe a little refresh of memory: the perc test turned out to be hard to do new septic for subdivision.

In light of that, we are considering our options. I have checked the codes and it appears that the easiest one in terms of effort is to finish the porch into a non-bedroom living space like a library. Will your office be able to approve the modified version (not pursuing bedroom addition) of the application?

Please let me know if you have questions and I can stop by the Health department office for meetings.

Thank you

Leon

From: "Oswald, Hank" <hoswald@howardcountymd.gov>
To: Leon Liang <liangguizhi@yahoo.com>
Sent: Monday, August 31, 2015 3:33 PM
Subject: RE: B15002792_16035 Carrs Mill Road

Hi Leon:

I checked with my supervisor. Since your adding a bedroom, we cannot grant a conditional approval. Moreover, the two projects are independent of one another.

Hank

From: Leon Liang [mailto:liangquizhi@yahoo.com]
Sent: Monday, August 31, 2015 3:21 PM
To: Oswald, Hank
Subject: Re: B15002792_16035 Carrs Mill Road

Hi Hank,

Thanks for the email.

You probably remember as you were reviewing the a perc test for this property, we were working with an engineer to create an additional lot out of the property. However, he was not able to find the spaces for the draining fields and building sites. Currently, we are trying to engage another engineer who had experience working in Howard county.

While we are waiting for the outcome of the subdivision process of which the first step is the perc test, I am wondering whether it is possible to get something like conditional approval? Namely, assuming that the perc test will be successful which should be the case for a least one lot, ie the property remains one lot and can't be subdivided.

Please let me know your thoughts and I can stop by your office for a quick review if that helps.

Thank you

Leon

From: "Oswald, Hank" <hoswald@howardcountymd.gov>
To: "Liangquizhi@yahoo.com" <Liangquizhi@yahoo.com>
Sent: Monday, August 31, 2015 2:25 PM
Subject: B15002792_16035 Carrs Mill Road

Attached you will find a response letter to your building permit in addition to percolation test and plan requirements plus a percolation test application.

Please contact me with any questions.

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
410.313.1786

Wolf, Kevin

From: Bricker, Robert
Sent: Wednesday, May 06, 2015 9:03 AM
To: Williams, Jeffrey; Wolf, Kevin
Subject: fyi2-FW: 16035 Carrs Mill Rd CB150442

???

From: Forejt, Bruce
Sent: Wednesday, May 06, 2015 7:42 AM
To: Saucedo, Nick; Jackson, James; Bricker, Robert
Cc: Kelly, Sean; Huskins, Thomas
Subject: RE: 16035 Carrs Mill Rd CB150442

Thanks Nick,
Robert Bricker has an inspector from the Health Department going out to investigate also.

From: Saucedo, Nick
Sent: Wednesday, May 06, 2015 7:29 AM
To: Forejt, Bruce; Jackson, James; Bricker, Robert
Cc: Kelly, Sean
Subject: RE: 16035 Carrs Mill Rd CB150442

CP150443 has been created and scheduled to Darrell for today.

From: Forejt, Bruce
Sent: Tuesday, May 05, 2015 3:13 PM
To: Saucedo, Nick; Jackson, James; Bricker, Robert
Cc: Kelly, Sean
Subject: 16035 Carrs Mill Rd CB150442

Gentlemen,
Tom Huskins found an open covered porch on the left side of 16035 Carrs Mill Rd being enclosed without permits and inspections today. The exterior has been closed-in but the interior is still open without wiring installed. A bathroom must be planned for the addition because there is an open trench to the septic tank leading from the work area. A CRM (CB150442) has been created for Tom Huskins to result when he gets back in the office, photos will be attached to the record. Thanks, Bruce

that the perc test will be successful which should be the case for a least one lot, ie the property remains one lot and can't be subdivided.

Please let me know your thoughts and I can stop by your office for a quick review if that helps.

Thank you

Leon

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Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
410.313.1786

Oswald, Hank

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In light of that, we are considering our options. I have checked the codes and it appears that the easiest one in terms of effort is to finish the porch into a non-bedroom living space like a library. Will your office be able to approve the modified version (not pursuing bedroom addition) of the application?

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While we are waiting for the outcome of the subdivision process of which the first step is the perc test, I am wondering whether it is possible to get something like conditional approval? Namely, assuming

APPLICATION

PERCOLATION TESTING

A 512794

11/1/99

P _____

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

Proposal - To subdivide
3-1 acre lots off
existing 18.5 (?) acre
piece. Existing house
to be evaluated

DISTRICT _____

DATE 11/1/99

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

(DKS)

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

PROPERTY OWNER Harold S. Cain, Jr.

ADDRESS 16161 Carrs Mill Road, Woodbine, MD 21797 PHONE Call T. Feaga 410-489-7900

AGENT OR PROSPECTIVE BUYER Heritage Land Development

ADDRESS 3060 Washington Rd. Suite 220, Glenwood, MD 21738 PHONE 410-489-7900

PROPERTY LOCATION:

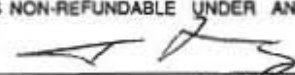
SUBDIVISION Cain Property LOT NO. 1

ROAD AND DESCRIPTION Carrs Mill Road

TAX MAP B PARCEL # 184

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

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


(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

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

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

THIS IS NOT A PERMIT

APPLICATION

PERCOLATION TESTING

A 512794

P _____

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

DISTRICT _____

DATE 11/1/99

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

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

PROPERTY OWNER Harold S. Cain, Jr.

ADDRESS 16161 Carrs Mill Rd., Woodbine, MD 21797 PHONE T. Feaga @ 410-489-7900, x. 11

AGENT OR PROSPECTIVE BUYER Heritage Land Development

3060 Washington Rd.

ADDRESS Suite 220, Glenwood, MD 21738 PHONE 410-489-7900

PROPERTY LOCATION:

SUBDIVISION Cain Property LOT NO. 2

ROAD AND DESCRIPTION Carrs Mill Road

TAX MAP 8 PARCEL # 184

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

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

[Signature]
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

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

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

THIS IS NOT A PERMIT

COUNTY # _____

SOIL PROFILE (13)

0' Topsoil

1' 10% Rock

5' Clay-Loam

50% Rock

9 1/2'

(12)

1' Topsoil

Clay

4' Clay Loam

10% Rock

12'

(14)

1' Topsoil

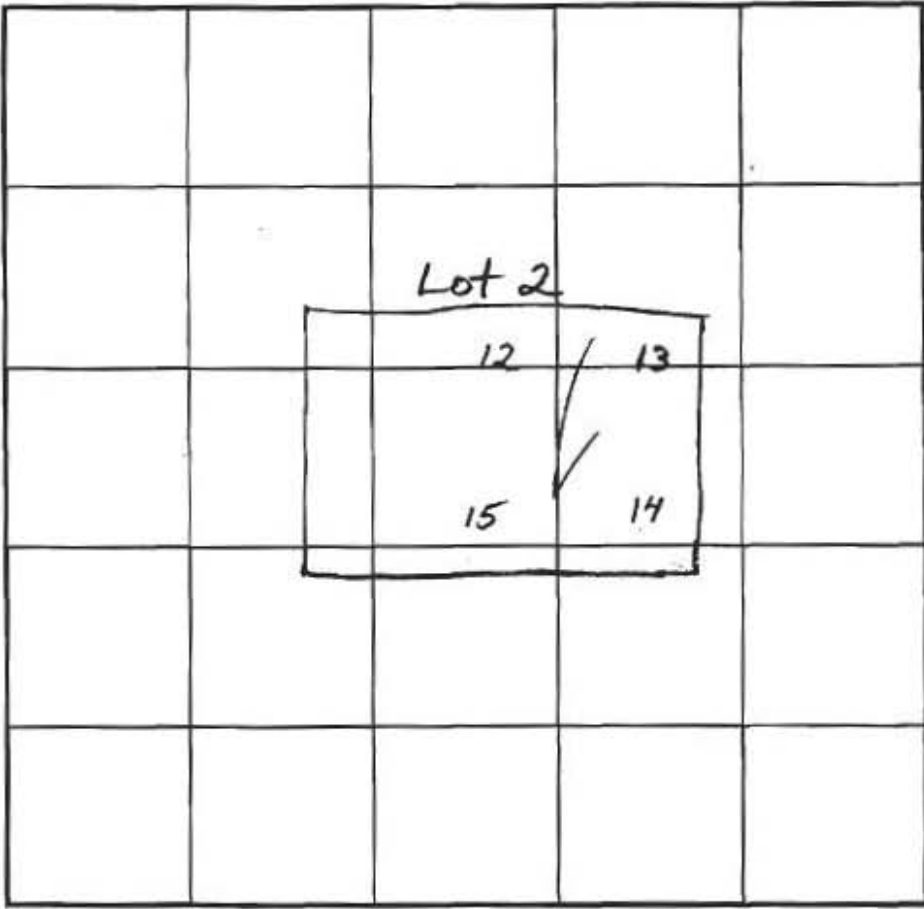
Clay

3.5' 5% Rock

-4' Slightly Damp Clay-Loam

5-10% Rock

13'



SOIL PROFILE (15)

0' Topsoil

18" Clay

3' 50% Rock

Clay Loam

15% Rock

8.5'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.
Carrs Mill Rd.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1' DROP		TIME
			START	STOP	START	STOP	
12/9/99	13	9 1/2' V	see	profile			FAIL (F)
		Rocky 5'					
	12	4' 12' V	12:10:30	12:20	12:20	12:45	25 min
	14	4.5' 13' V	12:20:15	12:40:30	12:40:30	1:45	65 min (F)
	15	8 1/2' V	see	profile			OK

REMARKS Excess rock in hole 13. / Test holes staked

TYPE OF SOIL _____

TESTED BY Brian Baker / Craig W. ALSO PRESENT Dennis - Tim Feagy

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT/BEDROOM _____

COUNTY #

SOIL PROFILE

10

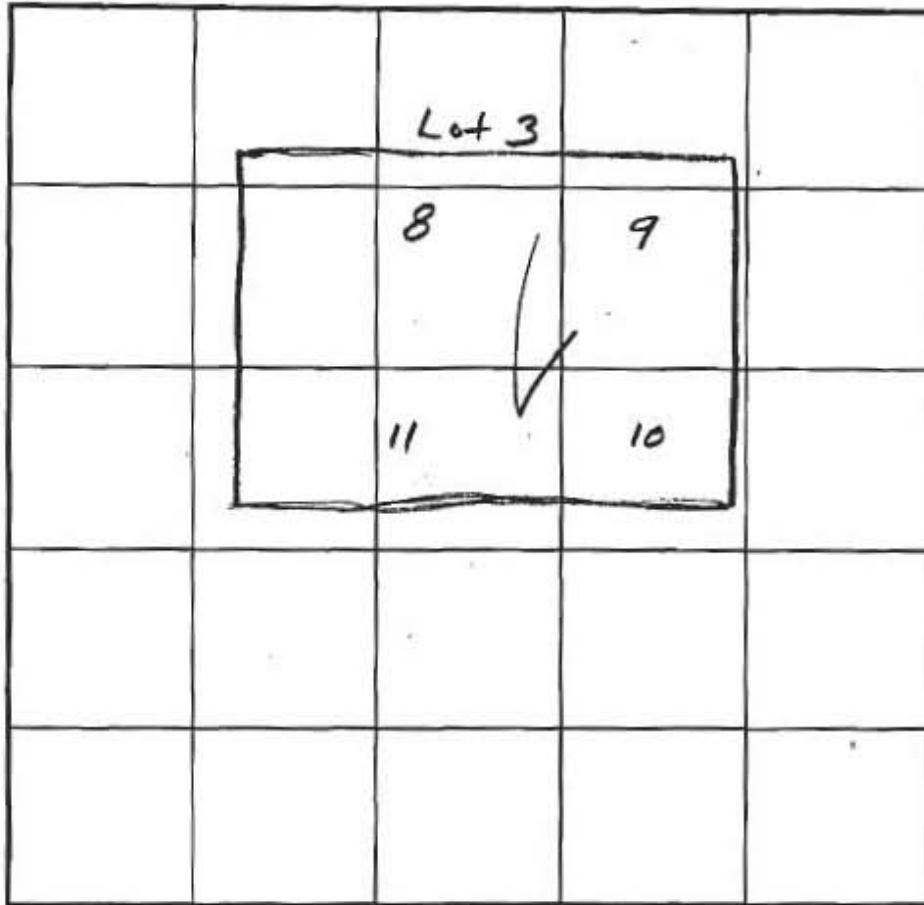
0'	Topsoil
6"	Clay
3'	Silty Loam
5 1/2'	10% Rock
6'	75% Rock

11

0'	Topsoil
3'	Clay
3'	Silty Loam
6 1/2'	10% Rock
7'	25% Rock

8

6"	Topsoil
2.5'	Clay
4.5'	Transition
4.5'	Questionable Rock
6 1/2'	Severe Rock
	>50% ROCK



SOIL PROFILE

9

0'	Topsoil
6"	Clay
3-3.5'	Transition
5'	10% Rock
	Silty Loam
	25-30% Rock
10'	

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Carris Mill Rd

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
12/9/99	10	4' 6" V	11:52:30	11:53:30	11:39:30	11:42	7:30
	10 Repair	4'	11:43:15	11:48:00	11:48:00	12:00	12
	10	2.5'	11:51:45	11:56:45	11:56:45	12:14	17:15 (F)
	11	3-10' Vok	see	profile			OK
	8	4' 6.5" V	12:55			5/0W	FAIL (F)
		2.5'	12:57	1:05	1:05	1:22	17 (F)
	9	10' V	see	profile			OK

REMARKS Excess rock ~6' in holes 8 and 10. / Test holes staked!

TYPE OF SOIL _____

TESTED BY Brian Baker/Craig W. ALSO PRESENT Dennis+Tim Feagy

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

11/19/99
letter not
sent - confirmed
w/ mt. Yeager D/S



HOWARD COUNTY HEALTH DEPARTMENT

Diane L. Matuszak, M.D., M.P.H., County Health Officer

November 19, 1999

Heritage Land Development
3060 Washington Road, Suite 220
Glenwood, Maryland 21738

RE: **Percolation Test Date**
Proposed Use: Subdivision
Property ID: Cain Property, Lots 1 thru 4
Carrs Mill Road
Tax Map: 8 Parcel #184

Dear Sir or Madam:

Percolation testing has been tentatively scheduled for the above referenced property for **Thursday, December 9, 1999, at 10:00 a.m.** Please call this office at (410) 313-2640 to confirm your acceptance of this percolation test date.

You shall be responsible for having a contractor on site to excavate the test holes at the corners of the proposed septic area.

In the event of uncertain weather (i.e., precipitation or extremes of temperature), please contact this office prior to 9:00 a.m. on the test date to determine whether or not percolation testing can be performed on that date. If it is not feasible to perform the test, a new test date shall be assigned.

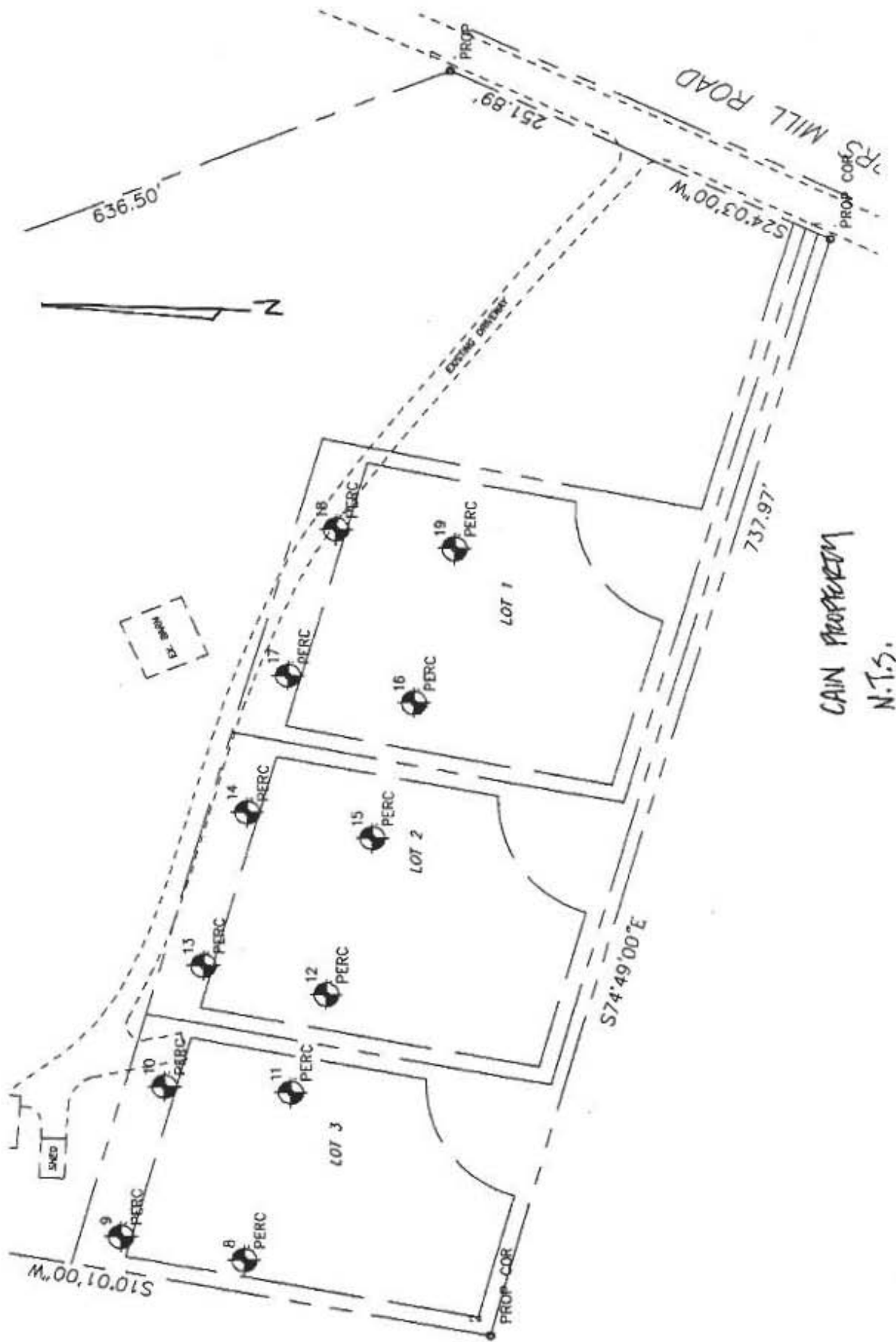
Percolation test results may be expected by mail two to three weeks after the completion of the percolation testing.

Thank you in advance for your cooperation in this matter.

Sincerely,

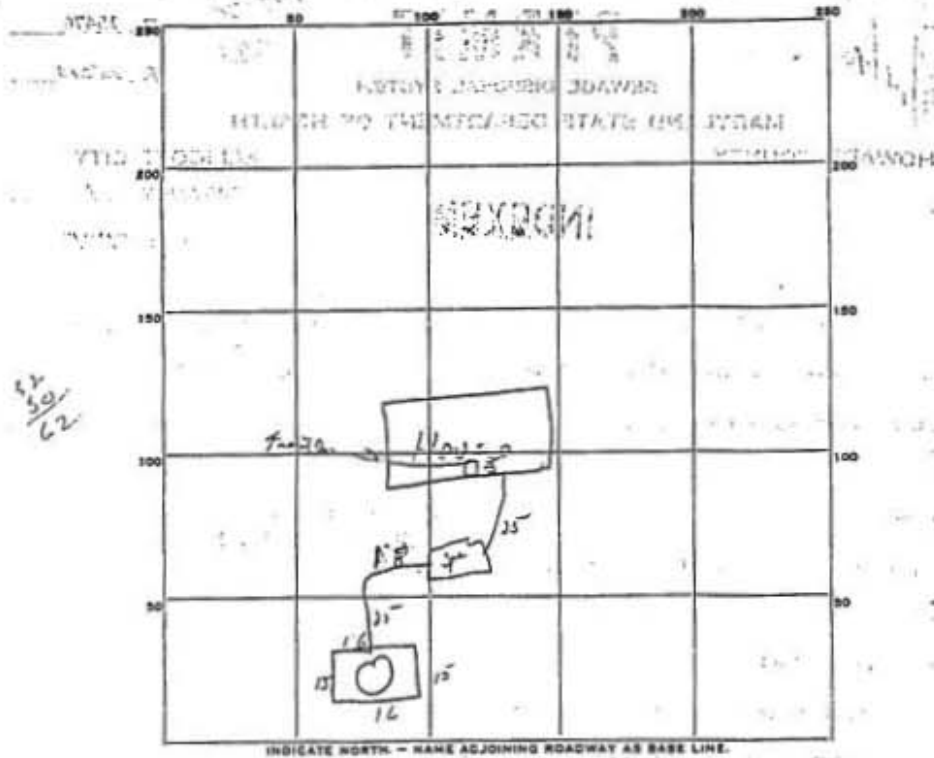

Donna K. Soe, R.S.
Water and Sewerage Program

cc: Mr. Harold S. Cain, Jr.
file



CAIN PROPERTY
N.T.S.

16161 Carr Mill Rd



62
1/29/62

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

PERMIT CARD OK
 SEPTIC TANK, LEVEL OK CLEANOUTS OK
 DISTRIBUTION BOX, LEVEL _____
 TILE FIELD, DEPTH _____ FT. TRENCH WIDTH _____ FT.
 GRAVEL DEPTH _____ IN. TOTAL LENGTH _____ FT.
 NUMBER OF TRENCHES _____ TOTAL BOTTOM AREA _____
 SEEPAGE PITS, INSIDE DIAMETER 62 FT. DEPTH BELOW INLET 4 FT.
 ABSORBENT AREA 496 SQ. FT.

REMARKS _____

DATE SYSTEM APPROVED 9/14/70 INSPECTOR JM M...

512-21

APPLICATION

PERCOLATION TESTING

A 512794

P _____

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

DISTRICT _____

DATE 11/1/99

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

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

PROPERTY OWNER Harold S. Cain, Jr.

ADDRESS 16161 Carrs Mill Rd., Woodbine, MD 21797 PHONE T. Feaga @ 410-489-7900, ex. 11

AGENT OR PROSPECTIVE BUYER Heritage Land Development

3060 Washington Road
ADDRESS Suite 220, Glenwood, MD 21738 PHONE 410-489-7900

PROPERTY LOCATION:

SUBDIVISION Cain Property LOT NO. 3

ROAD AND DESCRIPTION Carrs Mill Road

TAX MAP 8 PARCEL # 184

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

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

[Signature]
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

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

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

THIS IS NOT A PERMIT

Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, December 01, 2015 12:52 PM
To: Zach Fisch <zfisch@FSHERI.COM> (zfisch@FSHERI.COM)
Cc: Lianguizhi@yahoo.com
Subject: 16035 Carrs Mill Road_Perc Test Application

Hi Zach:

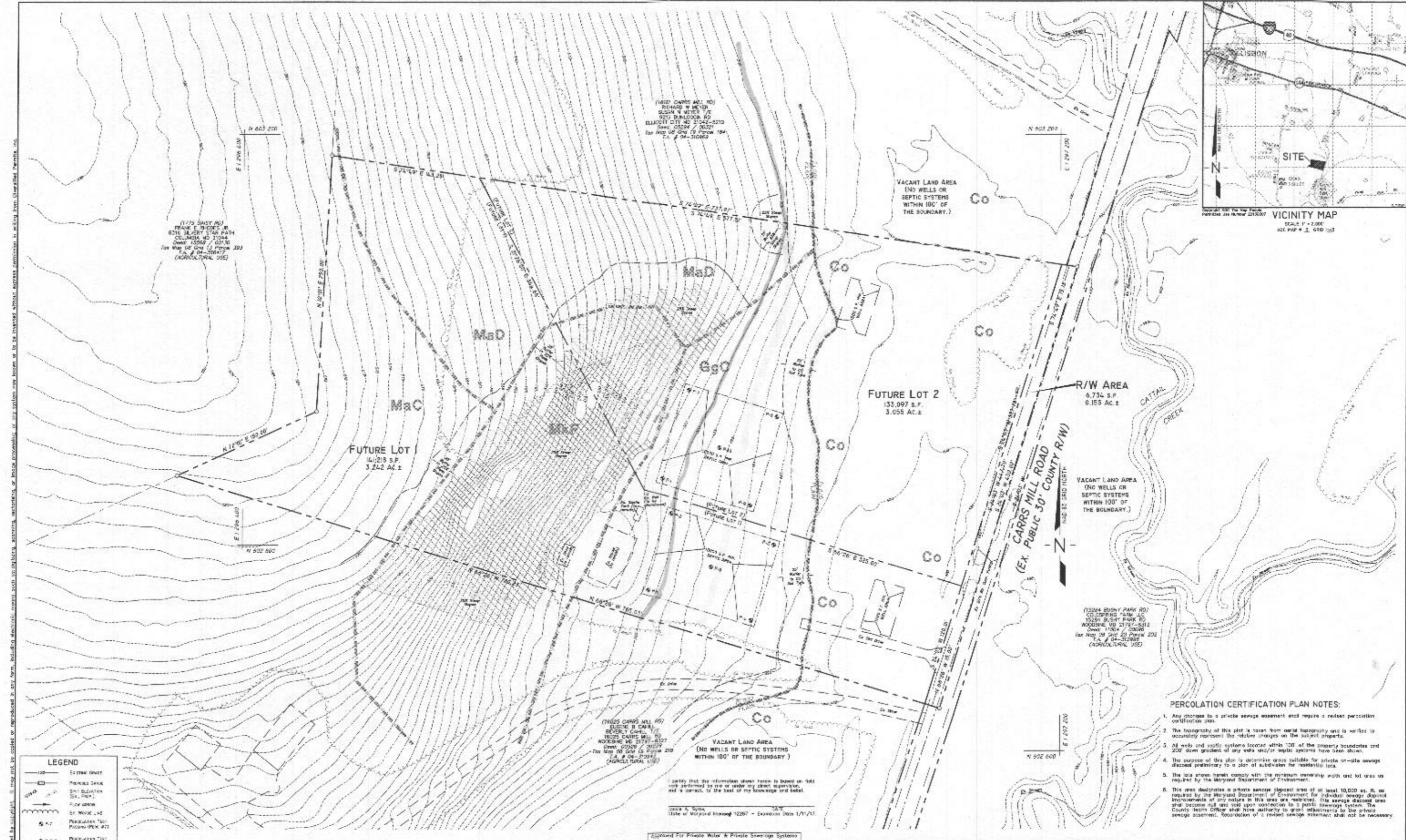
The percolation test plan has been reviewed. At this time, we can move forward with scheduling the percolation test date. The owner will be responsible for hiring a licensed septic contractor w/ a backhoe capable of digging to a depth of at least 12 feet. I am available the week of December 14 -18th. Please respond with a single day and a backup day in case of rain.

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)



- PERCOLATION CERTIFICATION PLAN NOTES:**
1. Any changes to a private sewage assessment and require a revised percolation certification plan.
 2. The topography of this plan is based on aerial topography and is written to accurately represent the relative changes on the subject property.
 3. All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic systems have been shown.
 4. The purpose of this plan is to determine areas suitable for private on-site sewage disposal preliminary to a plan of subdivision for residential lots.
 5. The lots shown herein comply with the minimum setbacks with and lot area as required by the Maryland Department of Environment.
 6. This area designates a private sewage disposal area of at least 10,000 sq. ft. as required by the Maryland Department of Environment for individual sewage disposal improvements of any nature in this area and restricted. This sewage disposal area and income tax and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to the private sewage assessment. Reconnection of a revised sewage assessment shall not be necessary.

LEGEND

	10' Stream Center
	Property Boundary
	Sewer Line
	15' Right-of-Way
	5' Right-of-Way
	10' Right-of-Way
	20' Right-of-Way
	30' Right-of-Way
	40' Right-of-Way
	50' Right-of-Way
	60' Right-of-Way
	70' Right-of-Way
	80' Right-of-Way
	90' Right-of-Way
	100' Right-of-Way



OWNER/DEVELOPER
YONGHUI YANG
GUZHI LIANG
1803 CHAPEL WOODS CT
CLARKSVILLE MD 21029
Date: 16059 / 03006



Approved For Private Water & Private Sewerage Systems

Health Officer, Howard County Health, Date: _____

PROFESSIONAL CERTIFICATION: I, Jodie A. Serna, 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 12251, Expiration Date 7/1/27.

Revisions		
#	Description	Approved by Date

PROFESSIONAL SEAL AND SIGNATURE

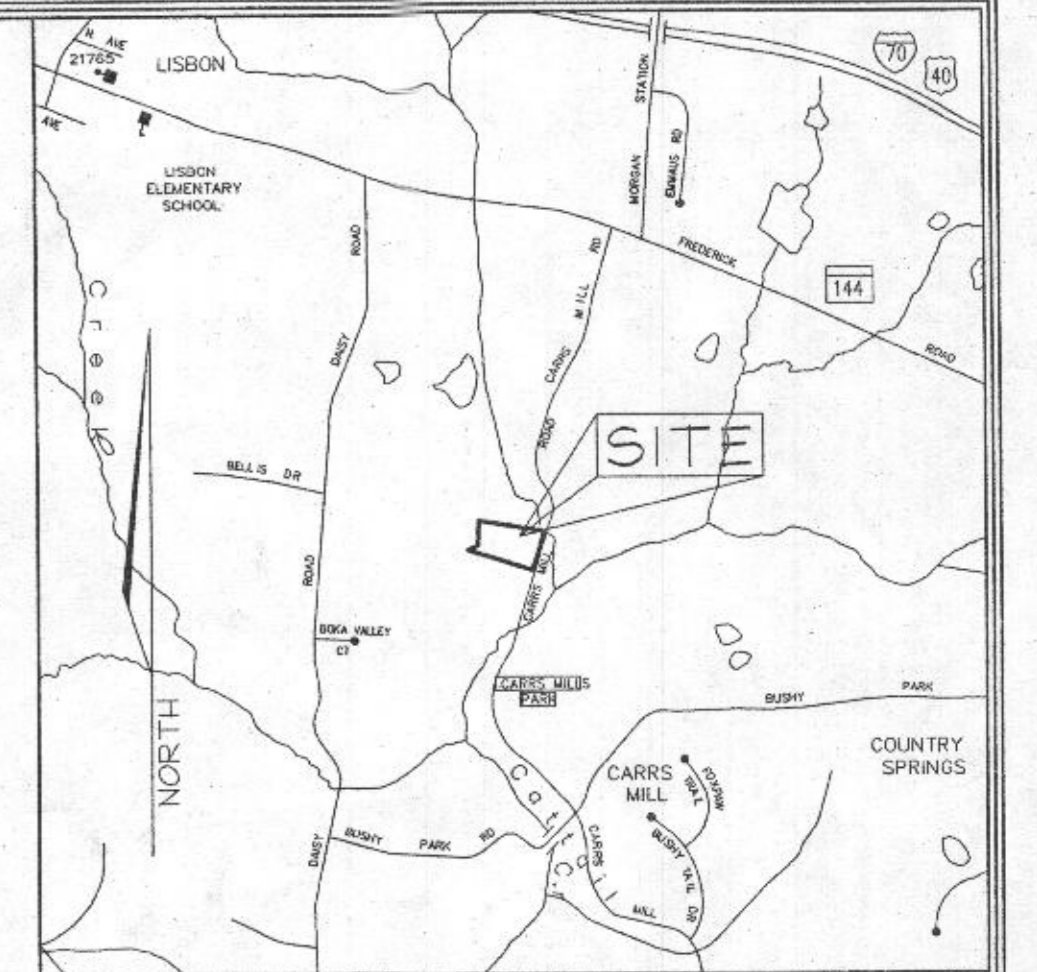
DIVERSIFIED PERMITS, INC.
CIVIL DESIGN AND
POWER SERVICES

P.O. Box 242
Millersville, MD 21108
Phone: 410-859-5203
Fax: 410-859-5584

Preliminary Percolation Plan & FEASIBILITY PLAN

6.453 ACRES
LIANG PROPERTY
18035 Corra Hill Road, Woodbine, MD 21797
Tax Map 08 Block 19 Parcel 185 Tax Account #04-315561
Date: June, 2015 Zoning RC-GEC
4th Assessment District, Howard County, Maryland

SHEET 1 OF 1



VICINITY MAP
SCALE: 1" = 2000'

LEGEND

- Existing Contour
- Existing Spot Elevation
- Existing Trees to Remain
- Proposed Septic Easement
- Proposed House
- Prop. Perc Test
- Ex. Steep Slopes 25%
- Prop. Well Location

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	SOIL GROUP
Co	Codorus and Habers silt loams, 0 to 3 percent slopes	C
GgC	Glennig loam, 8 to 15 percent slopes	B
MkF	Manor-zinkow complex, 25 to 25 percent slopes, very rocky	B
MaC	Manor cam, 8 to 15 percent slopes	B
MaD	Manor cam, 15 to 25 percent slopes	B

GENERAL NOTES

1. Subject property zoned RR-DEO per 10/06/13 Comprehensive Zoning Plan.
2. Area of properties = 136,434 SF (lot 1), 133,390 SF (lot 2)
3. Private wells, and septic will be used within this site.
4. This area designates a private sewage easement of at least 10,000 square feet (or 10,000 square feet per lot for shared drain fields associated with a shared sewage disposal facility) as required by the Maryland State Department of the Environment for individual sewage disposal (COMAR 26.04.03). Improvements of any nature in this area are restricted until public sewage is available. These easements shall become null and void upon connection to a public sewage system. The County Health Officer shall have the authority to grant adjustments to the private sewage easement. Recordation of a modified sewage easement shall not be necessary.
5. All wells and septic fields within 100' of property's boundary have been shown.
6. Existing Soils based on Web Soil Survey.
7. Property address: 16035 Carrs Mill Road Woodbine, MD
8. The lots shown hereon comply with the minimum ownership, width and lot area as required by the Maryland Department of the Environment.

The top of this plat...

"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."

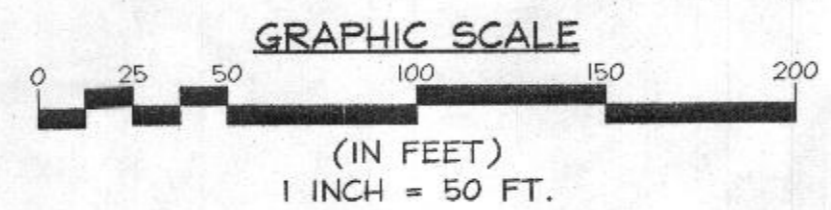
ZACHARIA YOSEF FISCH, P.E. #22418 DATE
FSH ASSOCIATES

PERCOLATION APPLICATION PLAN
16035 Carrs Mill Road
 Proposed Lots 1 & 2
 LIBER 16089, FOLIO 6

TAX MAP 8 PARCEL 185
 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

OWNER/DEVELOPER
 Leon Liang
 11803 Chapel Woods Ct.
 Clarksville, MD 21029

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. #22418, Expiration Date: 07/29/2017.



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

COUNTY HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT

DESIGN BY: CRH2
 DRAWN BY: CRH2
 CHECKED BY: ZYF
 SCALE: 1" = 50'
 DATE: Nov 17, 2015
 H.O. No.: 3971
 SHEET No.: 1 OF 1

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