

Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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

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

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

A560591

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Vineyards at Cattail Creek

PROPERTY ADDRESS 3715 E Sofia Ct

STREET

TOWN

ZIP

TAX ACCOUNT # 366115 TAX MAP 21 GRID 8 PARCEL 225 LOT NO. 25 PROPOSED LOT SIZE (ACRES) _____

ZONING CATEGORY RC-DEO TIER _____

PROPERTY OWNER(S) JOHN & JOAN THEIS

DAYTIME PHONE _____ CELL 301-908-5315 EMAIL JOTHEIS@VERIZON.NET

MAILING ADDRESS 15312 PAREV TER DARNESTOWN MD 20874

STREET

CITY, STATE

ZIP

APPLICANT SAME

RELATIONSHIP TO OWNER: _____

DAYTIME PHONE _____ CELL _____ EMAIL _____

MAILING ADDRESS _____

STREET

CITY, STATE

ZIP

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 4 OR 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

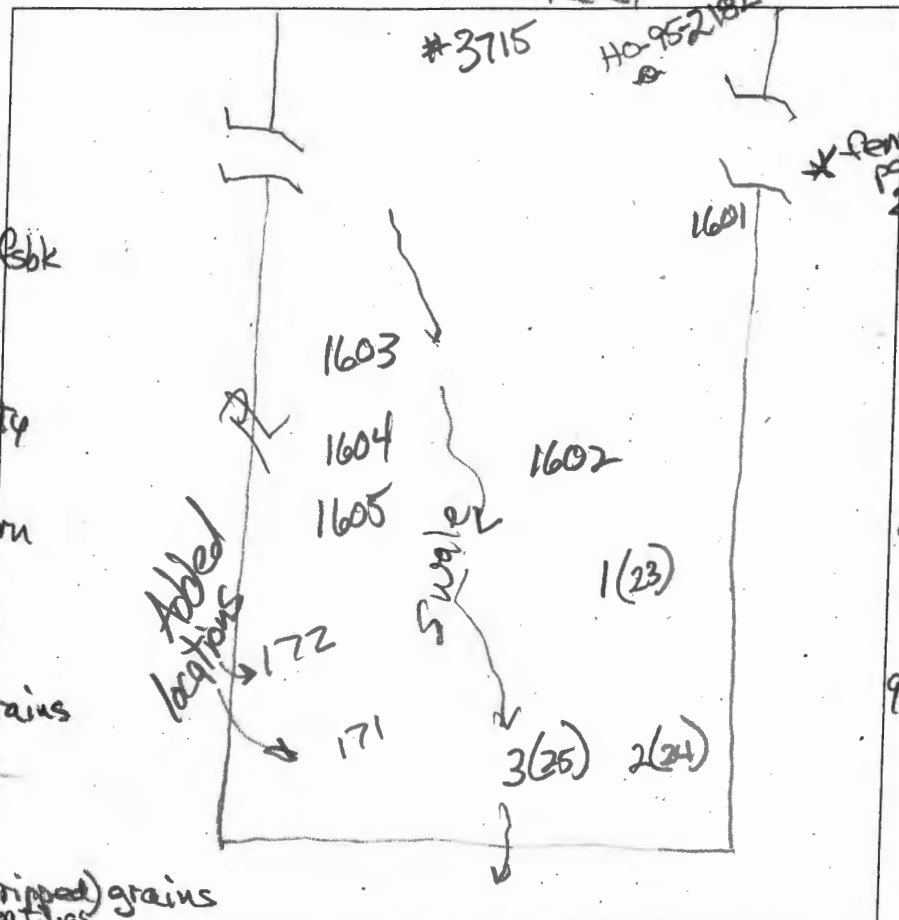
I declare and affirm that to the best of my knowledge, the information contained herein is correct. I declare that I am the owner of the property or duly authorized to make this application on behalf of the owner. I agree to comply with all applicable state and county regulations.

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

Water Seeps

[illegible]

REMARKS: Locations 23 & 24 'Fail' as they are within a swale.

SANITARIAN K. Bricker BACKHOE Justin Allen OTHERS John Theis

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

TRENCH WIDTH INLET DEPTH MAX. BOT DEPTH EFFECTIVE SW.

ny white sand grains (coatings stripped)

12.5-13' - Water Seeps

Lot 25

558701

1605

dk brn
+ brn L

7v fsl

0.2' brn & yel gl
7v fsl

0.7' brn L, thick platy

1.4' red-brn L, 2 mpr

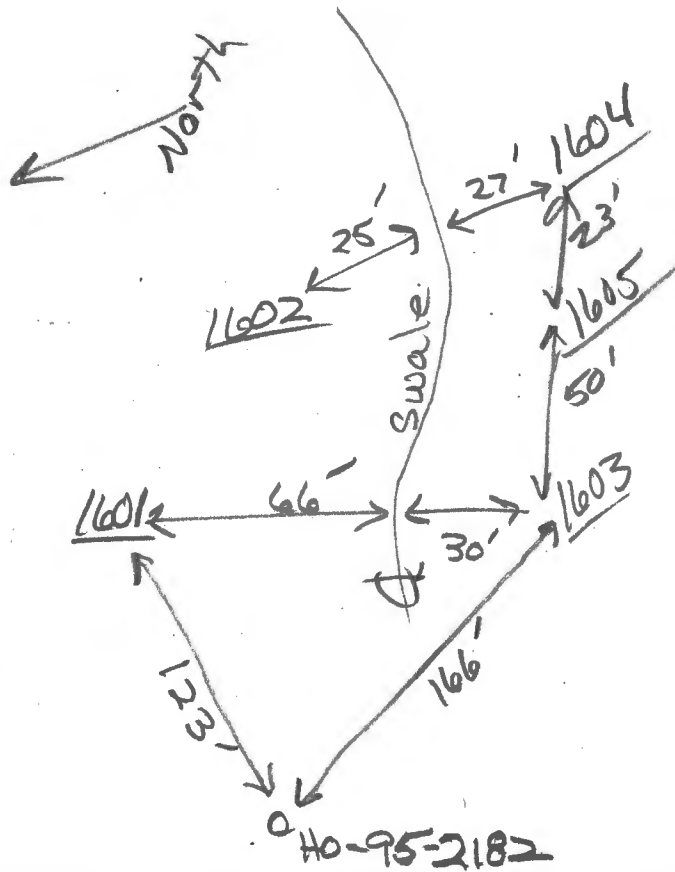
3.1' yel-red
+ lt. brn fsl
thick platy,
common mica

5' yel-red + brn
fsl, thick platy
many mica
czp (dk. brn)
mn

6' yel-red, yellow
+ pale yellow ls
thin platy
many mica
mzp (brn)

12' water
seeps

white, red-yel
+ yel-red ls



| DATE | TEST # | DEPTH | START | BREAK 1" DROP | STOP 2" DROP | TIME OF 2ND INCH | P/F/H |
|---------|--------|--------|-------|------------------|-----------------|---------------------|-------|
| 5/25/16 | 1605 | 7 1/2' | 11:56 | 11:59 | 12:06 | 7 | P |
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Well has plastic case 25.5" above soil surface.

REMARKS 2-pc. plastic cap is tight

SANITARIAN R Bricker BACKHOE Chuck Zapp OTHERS Jeff Heiges

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

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

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 558701

AGENCY REVIEW: _____

DATE 4-27-16

DO NOT WRITE ABOVE THIS LINE

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

CHECK AS NEEDED:

- ☒ CONSTRUCT NEW SEPTIC SYSTEM(S)
☐ REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
☐ REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- ☒ NEW STRUCTURE(S)
☐ ADDITION TO AN EXISTING STRUCTURE
☐ REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- ☐ CREATE NEW LOT(S)
☒ BUILD ON AN EXISTING LOT IN A SUBDIVISION
☐ BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- ☐ YES
☒ NO

THE TYPE OF STRUCTURE IS:

- ☒ RESIDENTIAL WITH unknown PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
☐ COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
☐ INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) JEFFREY G. HEIGES

DAYTIME PHONE 410-370-2867 CELL 410-370-2867 FAX _____

MAILING ADDRESS 4954 VALLEY VIEW OVERLOOK ELLICOTT CITY MD 21042
STREET CITY/TOWN STATE ZIP

APPLICANT JEFFREY G. HEIGES heidi.jeff@verizon.net

DAYTIME PHONE 410-370-2867 CELL 410-370-2867 FAX _____

MAILING ADDRESS 4954 VALLEY VIEW OVERLOOK ELLICOTT CITY MD 21042
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION

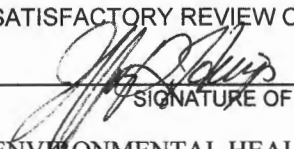
SUBDIVISION/PROPERTY NAME LOT 25 THE VINEYARDS AT CATTAIL CREEK LOT NO. 25

PROPERTY ADDRESS 3715 SOFIA CT. GLENWOOD, MD
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) _____ GRID _____ PARCEL(S) _____ PROPOSED LOT SIZE _____

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT.


SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

ASS 8701

1601

0.7' dk. brn L
2 vlsbk
few mica
brn & dk. brn
L 2 vlsbk
few mica

24' yel-red sl
& yellow
thick platy
common mica

13' pale yel & yellow
ls, thin platy
many mica
mzp (dk brn)
mnc coatings

14' pale brn & red-yel
ls, thin platy
mnc coatings
many mica

1602

14' dk brn L
2 vlsbk
to 2 vlsbk
few mica

24' brn L, 2 vlsbk
ss, few mica

3' yel-brn L
3 mlsbk
few mica

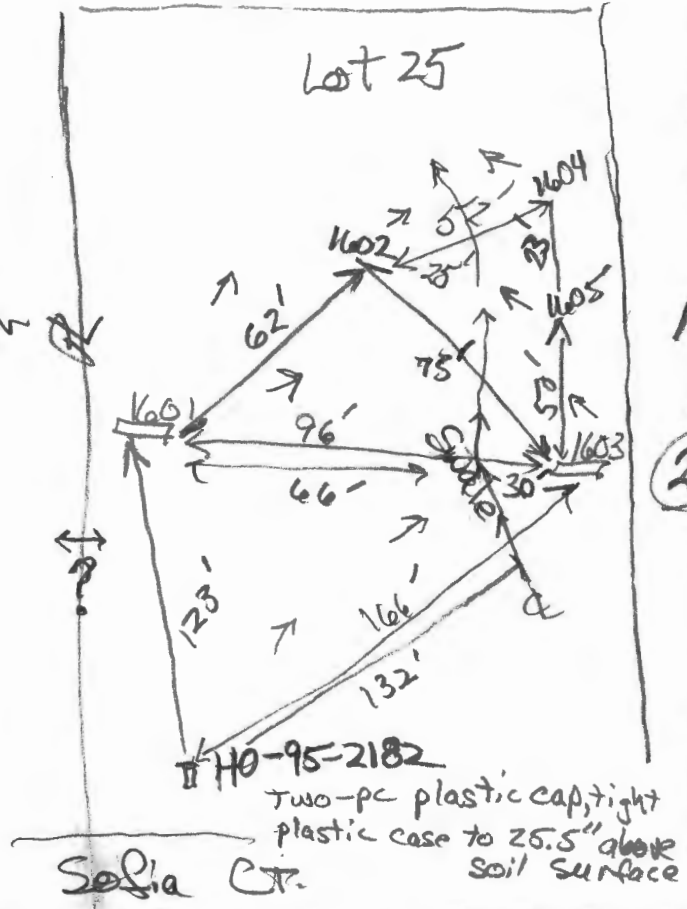
4.7' yel-red &
pale brn
L or fsl
thin platy
common mica
dense

11' yel-red &
red-yel
ls thin platy
many mica
c1p (dk brn)
mnc

12' pale yellow
to grey ls
thick platy
mnc coatings, moist
many mica

Lot 25

North



1603

0.3' brn gr L
7 vlsbk

0.7' brn L, 2 vlsbk

1.6' yel-red & brn
fsl, 2 vlsbk
common mica

2.4' br. brn to
yel-red fsl
thin platy, dense

1604

0.2' dk brn L
2 vlsbk

1.4' dk brn L
2 vlsbk

3.2' red-brn
L 2 mlsbk
ss

5.4' red-yel
fsl, thick platy
common mica
few stones

7' yel-red & yellow
and dk. brn
sl - ls, thin platy
many mica
few stones

12' red-yel, yellow
& pale yellow
ls, thick platy
mzp (brn)

13' olive, yel-red
& dk brn lfs

| DATE | TEST # | DEPTH | START | BREAK 1" DROP | STOP 2" DROP | TIME OF 2ND INCH | P/F/H |
|---------|-------------|------------|-------|------------------|-----------------|---------------------|-------|
| 5/25/16 | 1601 | 4.8' / 14' | 10:20 | 10:23 | 10:28 | 5 | P |
| 5/25/16 | 1602 | 6' / 11' | 10:41 | — | 10:44 | report | |
| | report 1602 | 6' / 11' | 10:45 | 10:46:30 | 10:49 | 2.5 | P |
| 5/25/16 | 1603 | 4.3' / 12' | 11:16 | 11:18 | 11:22 | 4 | P |
| 5/25/16 | 1604 | 6.6' / 12' | 12:02 | 12:05 | 12:10 | 5 | P |
| 5/25/16 | 1605 | 7' / 12' | 11:56 | 11:59 | 12:06 | 7 | P |
| | | | | | | | |
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REMARKS

SANITARIAN R Bricker BACKHOE Chuck Zap OTHERS Jeff Heiges

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____

_____ SQ. FT/BR _____

_____ EFFECTIVE S/W _____

(1605)

0.2' dk brn & brn L, tfsbk
brn & red-yel g L, tfsbk

0.7' brn L thick platy

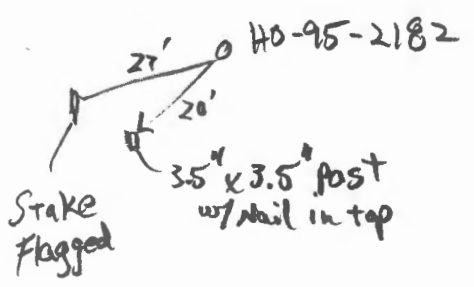
1.4' red-brn L, mpr

3.1' yel-red & lt brn fsl, thick platy
common mica

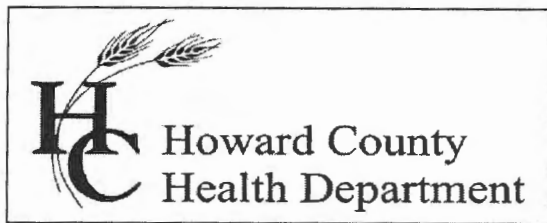
5' yel-red & brs fsl, thick platy
many mica czp (dk. brn)

12' yel-red, yellow & pale yellow ls
thin platy, many mica, mzp (brn)

water seeps
white, red-yel & yel-red ls



RECEIVED
APR 27 2016
HOWARD COUNTY HEALTH DEPT.
BUREAU OF ENVIRONMENTAL HEALTH



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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

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

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

June 3, 2016

Jeffrey Heiges, Owner/ Applicant
heidijeff@verizon.net

RE: Percolation Test Results, Vineyards at Cattail Creek, Lot 25; 3715 Sophia Court;
A558701

Dear Mr. Heiges,

Percolation testing was conducted on May 25, 2016 on Lot 25 of the Vineyards at Cattail Creek subdivision (3715 Sophia Court). The purpose for the tests was to confirm soils' properties in the sewage disposal area (SDA) recorded for the lot. In all, five locations were evaluated and all five locations PASS.

The sewage disposal area (SDA) recorded on Plat is on a landscape dominated by a shallow swale. There is not a drainage channel at the center of the swale, however the landform does divide the SDA unequally and reduces the usable area for trench installation.

Two locations, '1601' and '1602', were excavated on the north side of the swale. Location '1601' represents soil properties for an initial drainfield system installation, and location '1602' represents soil properties for a 1st replacement drainfield system.

Three locations, '1603', '1604' and '1605', were dug on the south side of the swale. Collectively, the soil properties observed represent the 2nd replacement distribution system.

The topography on the Preliminary Plan (SP-96-11) does not accurately characterize the shape of the landform where the SDA is located on Lot 25. It is possible that an effluent pump may be required at the time that the area south of the swale is needed for treatment and discharge of wastewater.

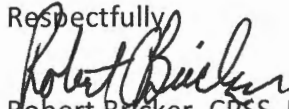
The Health Department previously approved the SDA on Lot 25 without specified limitation on the number of bedrooms. For approval of construction of a residence having 6 bedrooms or more, the Health Department requires an exhibit drawn by an engineer illustrating that three drainfield systems (an initial system and two replacement systems) fit in the approvable, usable area of the SDA. That exhibit must be presented in relation to field-run topography that is current and accurately depicts the shape of the landform on Lot 25.

Approval of a Building Permit for construction of a residence at 3715 Sophia Court will require submittal and approval of a BAT Plan. Required content on the BAT

Plan includes the illustration of three drainfield systems. Therefore, field-run topography at 2-foot elevation intervals will be required on the subsequent BAT Plan. The five percolation test locations will also have to be field-located for accurate spatial illustration on the BAT Plan.

If you have questions related to this inquiry, you may reply to me via email, rbricker@howardcountymd.gov , or call my desk, 410-313-2691.

Respectfully,



Robert Bricker, CPSS, REHS/R.S.

Environmental Sanitarian II

Well and Septic Program, Bureau of Environmental Health

Enclosures (3 pages): Percolation Test Application and 2 (two) Field Worksheets

Copy: File

APPLICATION

PERCOLATION TESTING

A 50225 DD

P _____

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____

DATE _____

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

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

PROPERTY OWNER Mannarelli

ADDRESS _____ PHONE _____

AGENT OR PROSPECTIVE BUYER Land Design & Development

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Vineyards @ Catfall Creek LOT NO. 10/12

ROAD AND DESCRIPTION _____

TAX MAP 21 PARCEL # _____

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

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

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

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

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

THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE

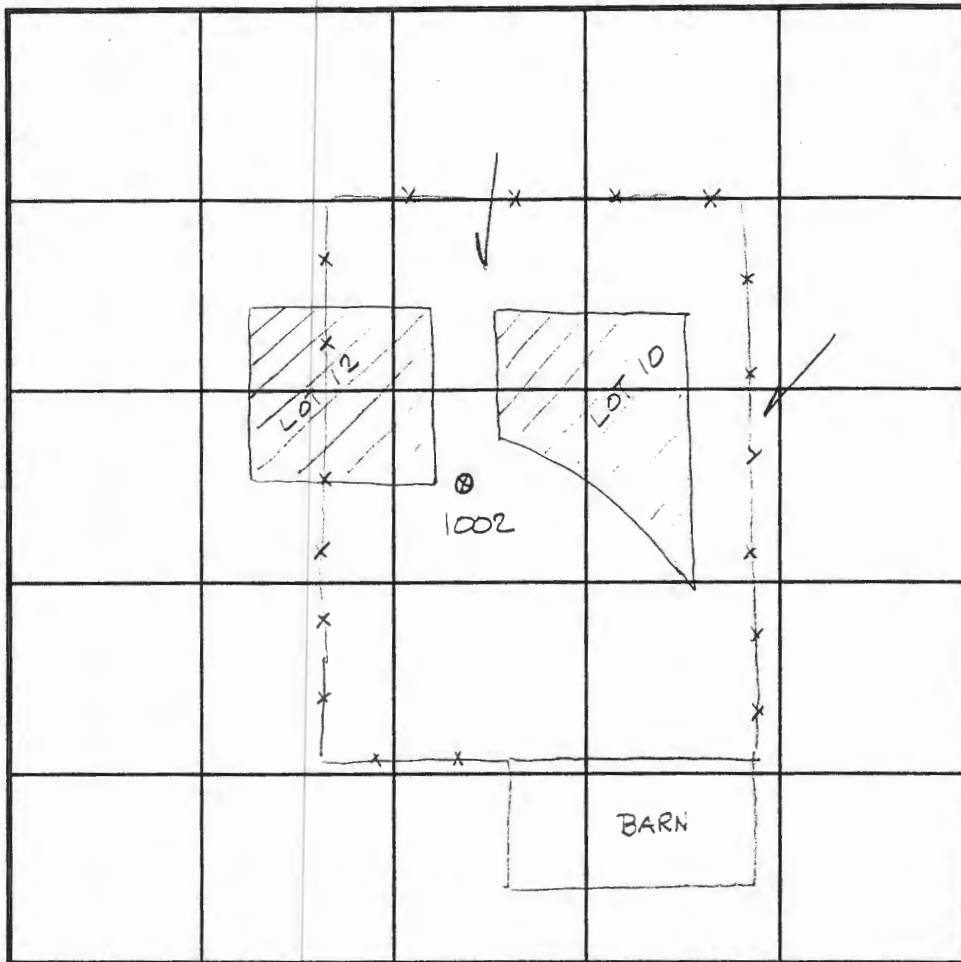
1002

0' topsoil

3.0 dark
red
brown
SiCLM6.5 dull
mottled
SiLM
Mg deposits
grey &
orange
mottles
9.0 water

SOIL PROFILE

0'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

| DATE | TEST NO. | DEPTH | PRE-WET | | TEST - 1" DROP | | TIME |
|---------|----------|--------------------------------|---------|------|----------------|------|------|
| | | | START | STOP | START | STOP | |
| 2-27-98 | 1002 | Visual to 11.0 - see profile - | | | | | |
| | | insufficient depth to water - | | | | | F |
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REMARKS adjust SDA w-hill

TYPE OF SOIL

TESTED BY Amy McMillenALSO PRESENT Tim Feaga

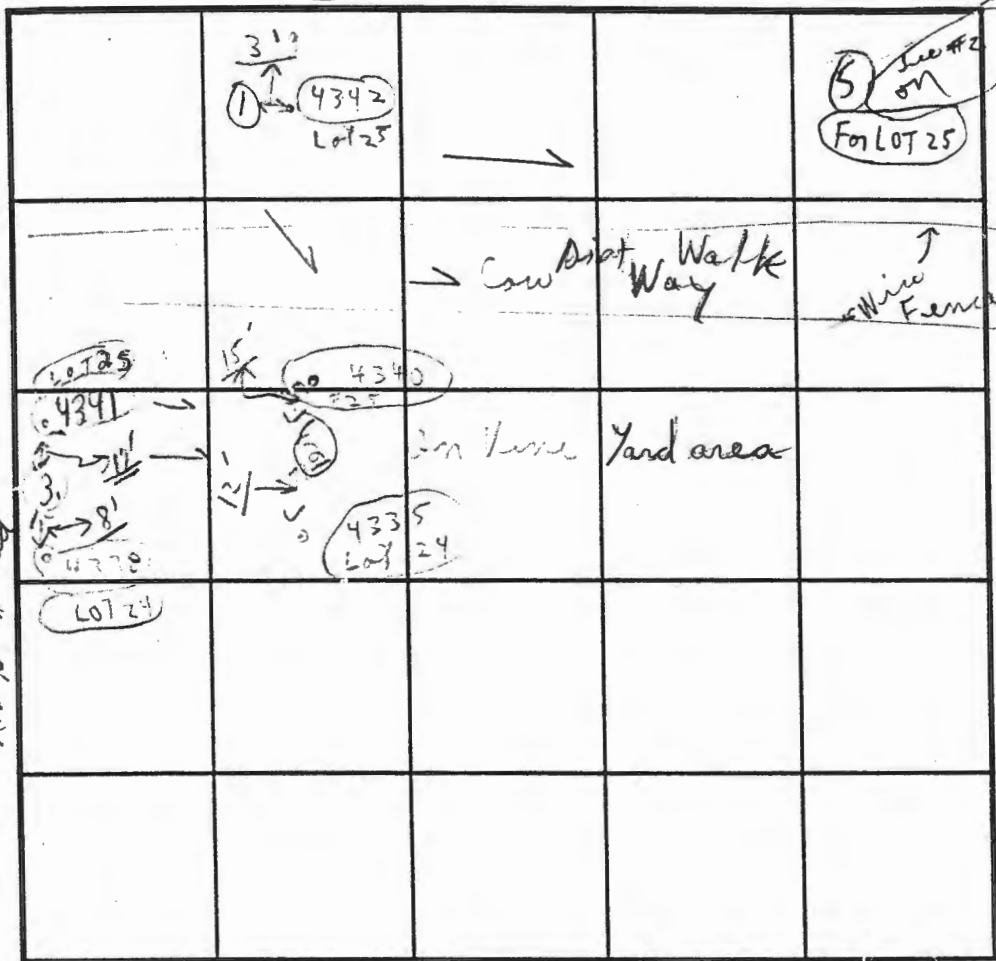
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH 3.0INLET DEPTH 2.0MAXIMUM BOTTOM DEPTH 3.5SQ. FT./BEDROOM 180

AS0225CC
COUNTY #
LOT 25
SOIL PROFILE

③ 4345 Now 27

④ #26 4344



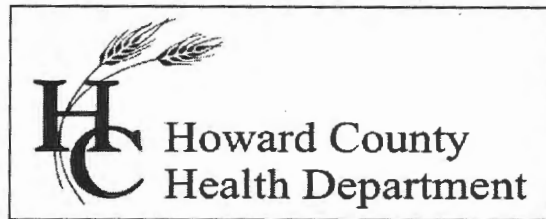
SOIL PROFILE

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

| DATE | TEST NO. | DEPTH | PRE-WET | | TEST - 1" DROP | | TIME |
|---------|----------|--------|---------|-------|----------------|---------|------|
| | | | START | STOP | START | STOP | |
| 8/31/94 | ⑤ | 4 1/2' | 10:22 | 10:25 | 10:25 | 10:30 | 5 in |
| | | 9 1/2' | | | Loam | no rock | |
| | ① | 4'-4" | 10:33 | 10:35 | 10:35 | 10:37 | 2 in |
| | 4342 | 10' 3" | | | | | |
| | 4340 | 4 1/2' | 10:54 | 10:56 | 10:56 | 10:58 | 2+ |
| | ② | 7' 6" | 11:02 | | Loam | | |
| | 4335 | 4' | 11:02 | 11:04 | 11:04 | 11:06 | 2 in |
| 8/31/94 | ③ | 11' | | | Loam | No rock | |
| | | | | | | | |
| | | | | | | | |

See #26
4 in
less
than
10 in

REMARKS Tests run field (Go by stake #s)
TYPE OF SOIL LOAM
TESTED BY C.B.S. ALSO PRESENT (Brown & Mark Reich)
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME TRENCH WIDTH
INLET DEPTH 4 1/2' MAXIMUM BOTTOM DEPTH To Shallow SQ. FT./BEDROOM



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

May 22, 2017

John and Joan Theis, owners/Applicant
iotheis@verizon.net

RE: Percolation Test Results, Vineyards at Cattail Creek, Lot 25, A560591

Dear Mr. and Mrs. Theis,

Percolation testing was conducted on April 13 on Lot 25 in the Vineyards at Cattail Creek subdivision for the purpose of reconfiguring the private sewage disposal area (SDA) so that a house footprint large enough to accommodate Homeowners Association (HOA) requirements could be accommodated.

Percolation tests pits were dug at three staked locations (23, 24, and 25). Test location 23 FAILED due to a very slow percolation rate. Locations 24 and 25 were dug, described and tested. Both of the latter locations FAIL as they were determined to be within a swale.

Two percolation test locations, '171' and '172' were added in the field. The locations are in the back, right corner of the lot. Locations '171' and '172' both PASS, thereby expanding an irregular area along the right sideline so that at least one drainfield system may be installed there.

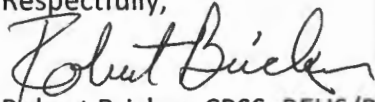
These tests were conducted as wet-season tests, and due to recent climatic conditions, an extended soil buffer was required. By the date of the tests and the topographic location, the required soil buffer was determined to be 6 feet for the tests conducted on April 13.

Relative to a potential proposal to construct a new residence, three drainfield systems must be proposed within the approvable boundaries of a sewage disposal area (SDA). If only two drainfield systems fit, then an advanced pre-treatment unit will be required as part of the septic system.

A Percolation Certification Plan must be submitted that meets state and county requirements including sizing and location of drainfield systems. Signature of the Percolation Certification Plan by the Approving Authority certifies the percolation test results and area approvable for wastewater discharge. Requirements for design of the new septic system shall be stated on the Percolation Certification Plan. When the Percolation Certification Plan is approved, Health Department staff may approve Building Permits and may issue Septic System Installation Permits.

If you have questions related to these content, you may reply to me via email, rbricker@howardcountymd.gov , or call my desk, 410-313-2691.

Respectfully,



Robert Bricker, CPSS, REHS/R.S., L.E.H.S.

Environmental Sanitarian II

Well and Septic Program, Bureau of Environmental Health

Howard County Health Department

8930 Stanford Boulevard

Columbia, MD 21045

Enclosures (5 pages): one Percolation Test Application and four (4) Percolation Test Field Worksheets (all percolation tests in 2016 and 2017)

Copy: Tony Fertitta, Fisher, Collins and Carter, Inc.

File

Reservation Of Public Utility And Forest Conservation Easem
"Developer Reserves Unto Itself, Its Successors And Assigne
Plan For Water Sewer Storm Drainage, Other Public Utilitie

Match