



HOWARD COUNTY HEALTH DEPARTMENT

55743

DATE 2/18/15

715

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Residential Collection

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301-776-2666

For

*Bill 114/0655 Home
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NO.

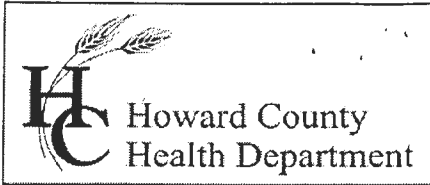
2247

Dollars

\$ *50.00*

Received By

Christina King



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 Weinberg Residence LOT # _____

PROPERTY ADDRESS 6655 Mink Hollow Rd
STREET TOWN ZIP

TAX ACCOUNT # _____ TAX MAP 34 GRID 21 PARCEL 0283 ZONING DESIGNATION COO

PROPERTY OWNER(S) ANDREW WEINBERG

DAYTIME PHONE 800-783-4189 CELL 301-370-4742 EMAIL tacont@comcast.net

MAILING ADDRESS 6655 Mink Hollow Rd, Highland, MD 20777
STREET CITY, STATE ZIP

APPLICANT KAREN PITSLEY RELATIONSHIP TO OWNER: ARCHITECT

DAYTIME PHONE 301-776-2666 CELL 301-788-3129 EMAIL Karen@transformingarchitecture.com

MAILING ADDRESS 7612 Browns Bridge Rd, Highland, MD 20777
STREET CITY, STATE ZIP

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

BUILDING:

- RESIDENTIAL WITH 7 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: _____
- 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] 2/18/15
 SIGNATURE OF APPLICANT DATE



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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Twitter: HowardCoHealthDep

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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 6655 Mink Hollow Road

Subdivision: Tax Map 34, Parcel 283 Lot:

Initial system: Application rate: 0.6 Effective area beginning depth: 6 Bottom maximum depth: 8

1st Replacement: Application rate: 0.6 Effective area beginning depth: 5.5 Bottom maximum depth: 7.5

2nd Replacement: Application rate: 0.6 Effective area beginning depth: 5.5 Bottom maximum depth: 7.5

Design Flow = 150 gallons per day per bedroom

Design flow + application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage + trench width

Sidewall reduction credit formula:

(W + 2) / (W + 1 + 2D) x 100 = Percent of length of standard trench where W=trench width and D= depth between effective area beginning depth and trench bottom.

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
All trenches must be on contour
Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit.
Additional spacing may be necessary for any trench using over 3.5' of effective sidewall.
In those cases, the spacing formula is 2D +W up to a maximum spacing of 18'.
Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
Maximum trench length is 100'
Maximum pipe depth is 4'

Additional requirements:

Install initial system in upper SDA.

Existing septic tank and trenches must be properly abandoned.

Approved: RBricker

Date: 4/10/2015

6655 Mink Hollow

Sheet 1 of 2

AP 3

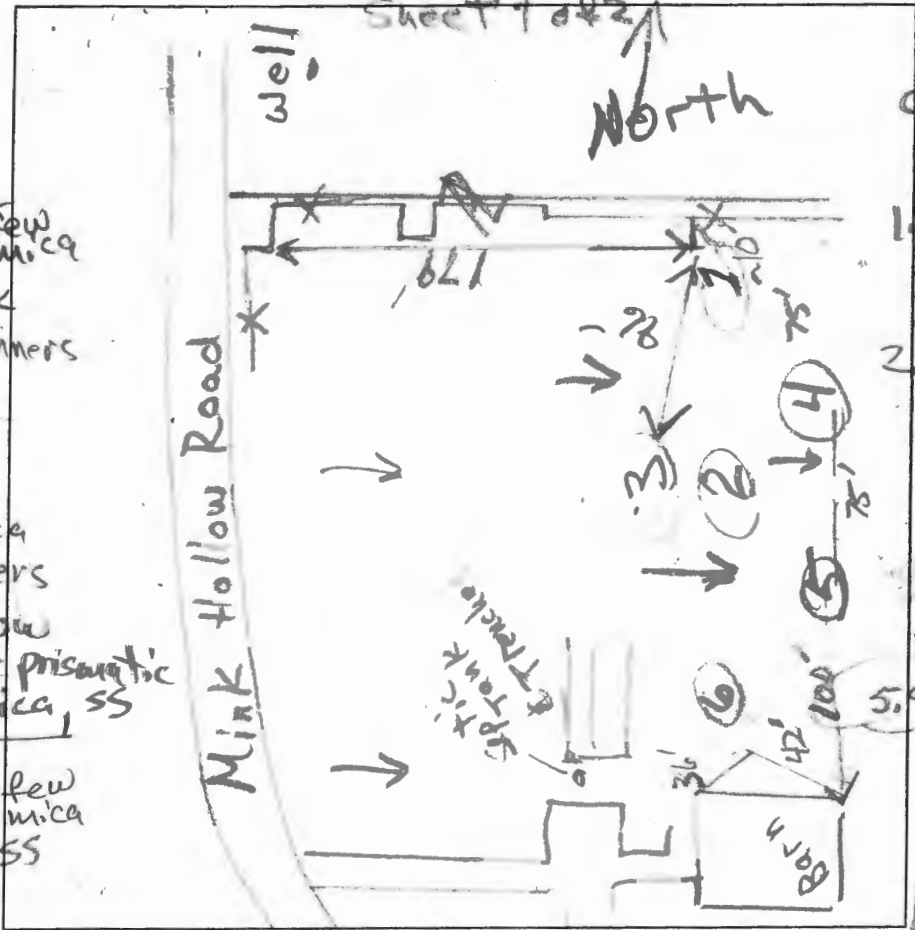
0.4 dk brn L, 2 fsbk

1 dk grey-brn L, 7 fsbk, SS, few mica

1 brn L, 2 msbk, SS, few channers, few mica

1.5 yellow-red L, 2 fsbk, common mica, few channers

2.6 red-yellow, 1st coarse prismatic clay skins, common mica, SS



6.

0.4 dk grey-brn L, 2 fsbk

1.5 brn & dk brn L, 2 msbk

2.2 dk, brn sl thin platy, SS, many mica

3 brn vch sl, 35% com mica

5.9 pale brn, platy, 2 brn-yellow, 1st thick platy, many mica

brn, red-yel & brn-yel sl, thick platy, many mica

water seeps

4.5 red ch sl, thin platy, clay skins, SS, few mica

7.6 brn sl, thin platy, common mica

8.3 brn & red-yel sl, com mica, many mica

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4/9/15	3	8.2/15'	10:25	11:00			reshelf
	3	10.3/15'	11:10	11:45			F
4/9/15	6	8'/13'	11:20	11:24	11:34	10	P
4/9/15	1	7.5/13.5'	11:45	11:57	12:27	30	P
4/9/15	2	8'/13'	12:45	12:52	1:10	18	P

1 dk brn L, 7 fsbk, SS

1 vcosl, rounded cobbles & pebbles

23 brn L, 2 msbk, SS

35 brn L, 3 msbk, SS

5.1 yellow-red & brown-yellow sl, thick platy

2

dk grey-brn L, 2 fsbk

brn ch L, 1 fsbk

red L, 2 msbk, SS, few mica

red L, thin platy, clay skins, SS

3.7 yellow-red & brown-yellow L, SS, thick platy

5.9 brn, red & yellow-brn sl, many mica, thick platy

13' water seeps

REMARKS: SANITARIAN & Bricker BACKHOE Fogle's OTHERS (5) m 1/2 p (dk brn)

TEST HOLES USED IN SDA: Rich AVG. PERC TIME: 11:15 SQ. FT/BR: 11:15

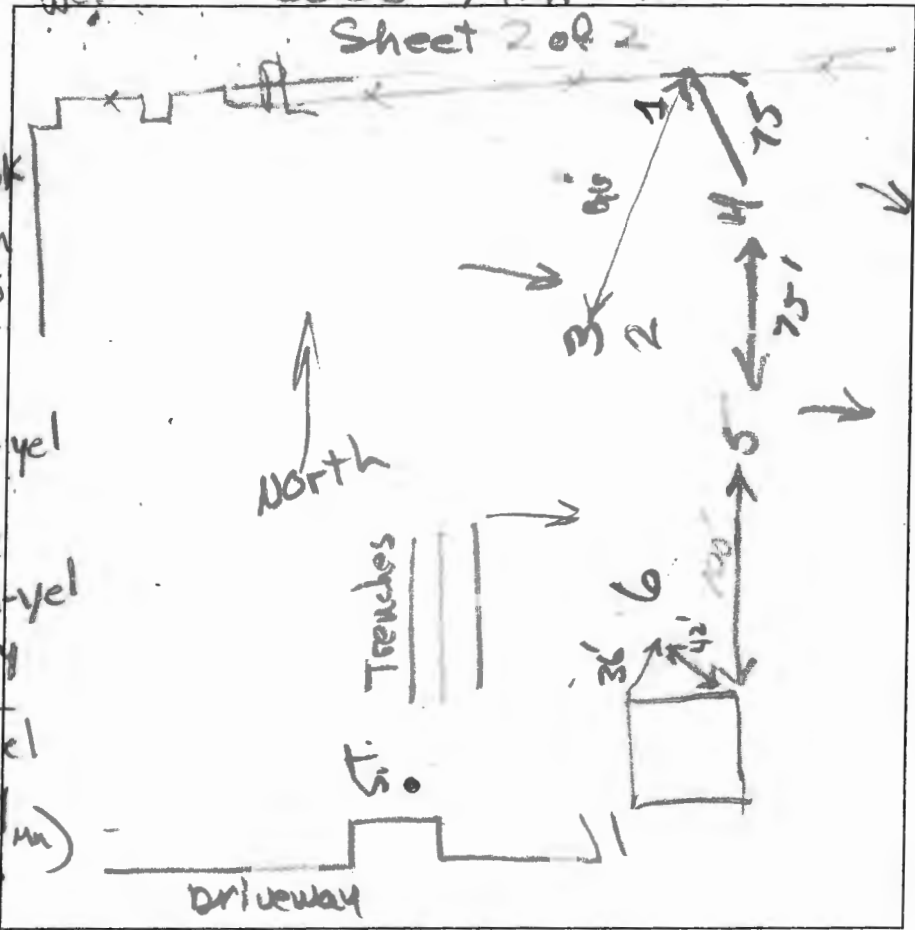
TRENCH WIDTH: _____ INLET DEPTH: _____ MAX. BOT DEPTH: _____ EFFECTIVE SW: _____

62 yellow-red & yellow brown sl, thin platy, common mica

72 red & yellow-brown sl, many mica, c2d (dk brn) 135' water seeps, brn & dk brn & brn-yellow sl

6655 Mink Hollow Rd.
Sheet 2 of 2

A/P _____



- 5
- 1.4' dk brn L
 - 1.4' 1fsbk to 2fsbk
 - 2.3' pale yel-brn L, 1msbk, SS
 - 3.5' yel-brn L, 2msbk, SS
 - 6' yel-brn & brn-yel L thin platy common mica
 - 6' red-yel & brn-yel sl, thick platy many mica
 - 11.5' brn & brn-yel sl, thick platy m3p (dk brn m) * water seeps

- 4
- 0.2' dk. grey-brn L, 1fg, SS
 - 0.5' pale red & pale brn vpbst
 - 0.5' 40% pebbles
 - 1' dk brn sl thin platy
 - 2' pale yel-brn L, 2msbk
 - 3.3' yel-brn L, 3msbk, SS clay skins
 - 4.5' red-brn L, thin platy m1d (pale yellow)
 - 5.5' red-brn sl, thick platy m2d (pale yellow)
 - 8.5' yel-brn & brn-yel sl, thick platy, many mica

DATE	TEST #	DEPTH	START	BREAK 1' DROP	STOP 2' DROP	TIME OF 2ND INCH	P/F/H
4/9/15	5	7.5' / 11.5'	1:22	1:42	2:06	24	P
4/9/15	4	7.3' / 13'	2:20	2:27	2:48	21	P

REMARKS

SANITARIAN R Bricker BACKHOE Fogles OTHERS Karen Pitsky

TEST HOLES USED IN SDA Rickey, T.S. AVG. PERC TIME Andrew Weinberg

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

8.5' red-yel & pale brn sl thin platy, many mica / 13'

2,4 & 5 OK

marked $\frac{1}{2}$ as illustrated

as illustrated

moved #1 other side

on 2nd & 3rd

LAVELLE & ASSOCIATES,
INCORPORATED
SURVEYORS · PLANNERS · CONSULTANTS

November 9, 2017

Howard County Health Department
Bureau of Environment Health
8390 Stanford Boulevard
Columbia, Maryland 21045

Attn: Mr. Robert Bricker

RE: 6655 Mink Hollow Rd.
Trench Design Calculations – Revised

Dear Mr. Bricker:

Please find below the Septic System Design for this project.
This project will utilize a Denitrification Septic Tank

1) Septic System Trench Design

- Initial System:
 - Application Rate: 0.6
 - Effective Area Beginning Depth: 6.0'
 - Bottom Maximum Depth: 8.0'
 - Trench Effective Depth: 2.0'

- Replacement System #1:
 - Application Rate: 0.6
 - Effective Area Beginning Depth: 5.5'
 - Bottom Maximum Depth: 7.5'
 - Trench Effective Depth: 2.0'

- Design Flow:
 - 7 Bedrooms at 150 gpd
 - $7 \times 150 \text{ gpd} = 1,050 \text{ gpd}$

- Square Footage of Drain Field Required:
 - Design Flow (1,050 gpd) / Application Rate (0.6) = 1,750 sf

OK
reB
11/9/17

Page 2
6655 Mink Hollow Rd.
November 9, 2017

- Sidewall Reduction Credit:
 - Initial System:
 - Trench Width (W) = 3'
 - Trench Effective Depth (D) = 2.0'
 - $(W+2) / (W+1+2D) \times 100 = (3'+2') / (3'+1+2(2)) = 5/8=62.5\%$
 - Replacement System #1:
 - Trench Width (W) = 3'
 - Trench Effective Depth (D) = 2.0'
 - $(W+2)/(W+1+2D) \times 100 = (3'+2') / (3'+1+2(2)) = 5/8=62.5\%$

- Linear Length of Trench Required:
 - Initial System
 - Drain field Square Footage (1750) x Sidewall Reduction Credit (62.5%) / Trench Width (3') = 364'
 - Replacement System #1:
 - Drain field Square Footage (1750) x Sidewall Reduction Credit (62.5%) / Trench Width (3') = 364'

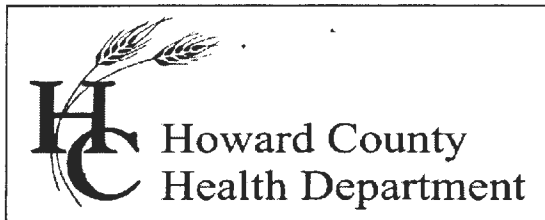
- Linear Length of Trench Provided:
 - Initial System
 - Provided 364
 - 4 Trenches 91' ea.
 - Replacement System #1:
 - Provided 312.5'
 - 4 Trenches 91' ea.

AK reB
11/9/17

Sincerely,



Daniel P Lavelle, Prof L.S.



Bureau of Environmental Health

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

April 10, 2015

To: Karen Pitsley, Transforming Architecture, Applicant

RE: Percolation Test Report; 6655 Mink Hollow Road (Tax Map 34, Parcels 283)

Percolation testing at 6655 Mink Hollow Road was conducted on April 9, 2015. A total of 6 test locations and/or soil profile observations were dug for the proposed sewage disposal area (SDA). The SDA is required in support of a building permit for an addition to the existing house.

The initial location tested, #3, FAILS. Five test locations downslope of the failed location were dug. Locations #1, #2, #4, #5 and #6 all PASS.

Locations of percolation tests that 'PASS' are used to define the sewage disposal areas (SDA) proposed on the Percolation Certification Plan. All percolation test locations, percolation test results, and suitable area for wastewater discharge are certified by the Approving Authority's signature of the Percolation Certification Plan. Percolation times were slow for all of the passing locations, therefore it will be important to maximize the area proposed as an SDA as much as is reasonable.

All percolation test locations must be field located and the respective elevations documented on a Percolation Certification Plan. Field run topography in and around the proposed SDA is required for certification. Also, to be included on the plan is the location of trenches for the initial drainfield and at least one replacement drainfield. The initial drainfield shall be installed in the uppermost area of the SDA. A Trench Specifications Sheet is included as an attachment to this report

In addition to a Percolation Certification Plan, a BAT Site Plan is needed as the new septic system will include a BAT unit. Attached is a document describing the required content for a BAT Site Plan. The Percolation Certification Plan and the Bat Site Plan may be submitted together as one plan, however the Health Department recommends that calculations, septic system profile, and content related specifically to the BAT unit should be presented on a separate sheet than the sheet containing all of the Percolation Certification Plan.

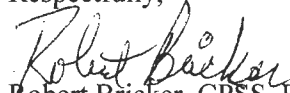
The sequence of events, beginning with submittal of the Percolation Certification Plan/BAT Site Plan, should proceed as follows: 1) Review and revision/approval of the Percolation Certification Plan. 2) Review and approval of the BAT Site Plan (which may be simultaneous to percolation certification approval). 3) Installation of the BAT system and trenches is completed and approved, and the 'old' septic system is abandoned. 4) A building permit application may be approved by the Health Department when the installation permit is approved by the attending Environmental Sanitarian.

Please know that the Operation and Maintenance Agreement for BAT system must be signed by the owner, submitted at the Health Department for signature by the Approving Authority, and then submitted to Land Records for recording. The Septic System Installation Permit may be released when a copy of the receipt for recording the agreement is delivered to the

Health Department. The installation permit can only be released to a contractor who has been certified to install BAT units by the Maryland Department of the Environment.

If you have any questions regarding this evaluation or requirements for a Percolation Certification Plan, please contact me by email or by calling (410) 313-2691.

Respectfully,



Robert Bricker, CPSS, REHS/RS, L.E.H.S.
Environmental Sanitarian II
Well and Septic Program

Enclosures: (2)

Copy: file

Andrea Weinberg, Tacont@comcast.net