



HOWARD COUNTY HEALTH DEPARTMENT

62995

DATE

5/14/18

AS

Received
From

PHONE #

795-484

For

Here App/492/Granny
Bridge Rd.

☐ CASH

☐ CHECK

NO.

018549

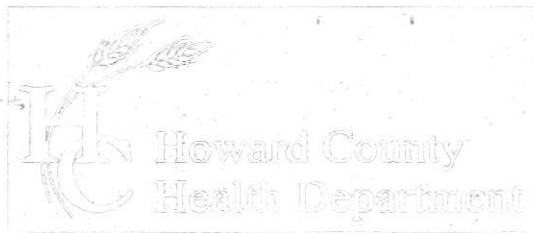
\$

500.00

Dollars

Received By

King



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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

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

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

APPLICATION FOR PERCOLATION TESTING AND SITE EVALUATION

156295

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Dayton
PROPERTY ADDRESS 4931 Green Bridge Rd Dayton 21034
STREET TOWN ZIP
TAX ACCOUNT # _____ TAX MAP 2B GRID 7 PARCEL 131 LOT NO. _____ PROPOSED LOT SIZE (ACRES) 1.83ac
ZONING CATEGORY _____ TIER _____

PROPERTY OWNER(S) Jeffrey & Diane Banner
DAYTIME PHONE _____ CELL _____ EMAIL jdanner@verizon.net
MAILING ADDRESS 4931 Green Bridge Rd Dayton 21034
STREET CITY, STATE ZIP

APPLICANT Bur Lane Agent Freedom Septic, C RELATIONSHIP TO OWNER: Contractor
DAYTIME PHONE 410-245-2947 CELL 410-984-6943 EMAIL Kristin@freedomseptic.com
MAILING ADDRESS 3309 Liberty Rd 0363 Extonville MD 21784 con
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 _____ 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.

Bur Lane Agent for Freedom Septic Co.

SIGNATURE OF APPLICANT

5/14/15

DATE

SITE INSPECTION SHEET

OWNER: Jeffrey & Diane Banner PHONE #: _____

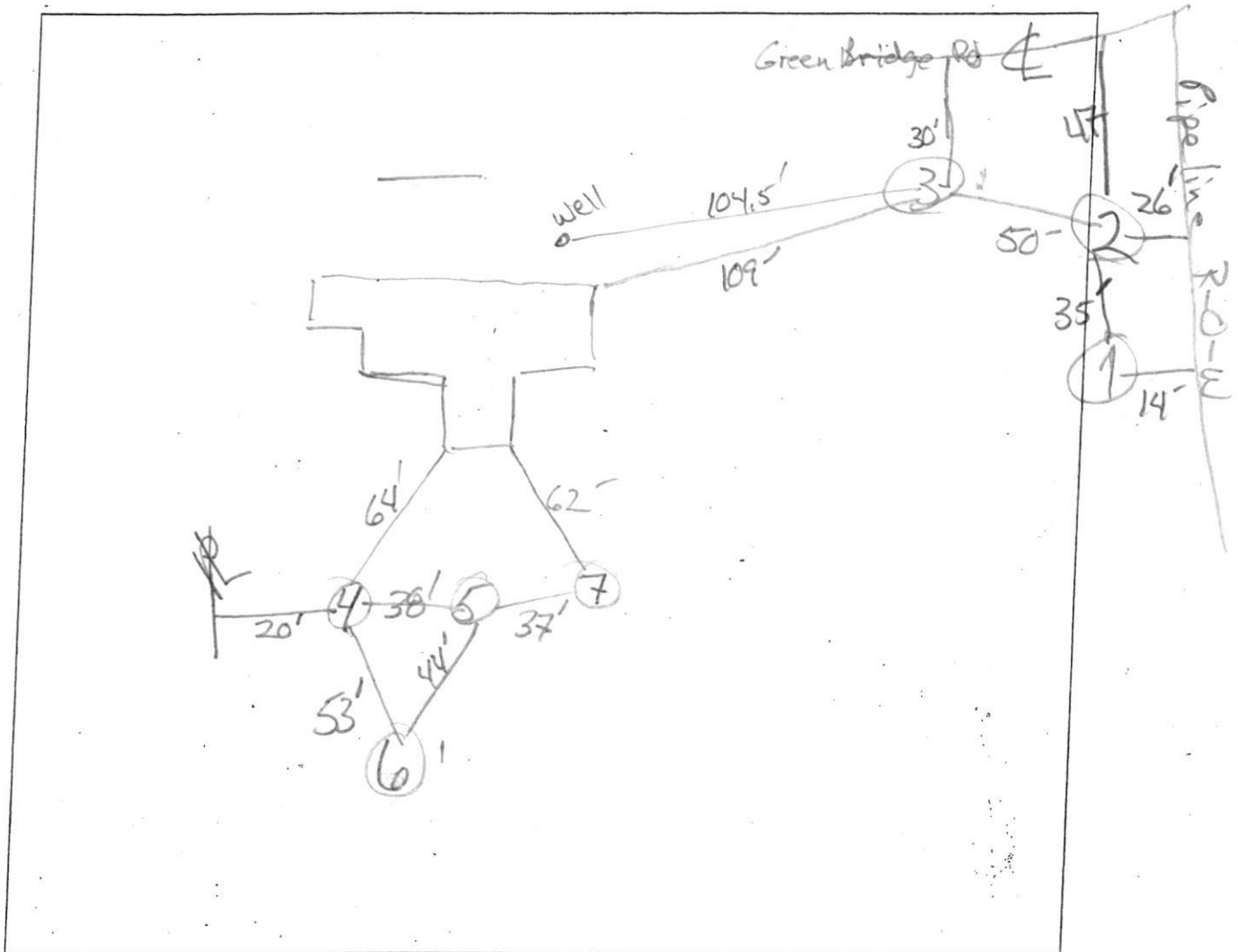
ADDRESS: 4921 Green Bridge Rd. CONTRACTOR: _____

Dayton 21036 WELL TAG #: _____

SUBDIVISION: _____ LOT: _____ COUNTY #: _____

PROPOSAL: _____

LOCATION DIAGRAM



COMMENTS: _____

DATE: _____ INSPECTOR: _____

A/P

1

dk brn L
3 fsbk

brn L, 2msbk

2.8

yel-red sl

few Mn conc (fine)

Ft (yel-red)

2d (pale yellow)

4.5

common mica

pale brn Ls

many mica

m2p (yel-red)

C 2d3d (grey)

5.3' water level

pale brn vchls

3

brn pbls

dk brn fs

1.5

mixed

brn & yel-red

L, 2msbk

common mica

30

yel-red fs

platy, many mica

35

yel-red

dk brn chls

many mica

platy

4

yel-red

red-yel

thick platy

common mica

9

red-yel fs

thin platy

few mica

11

red-yel fs

thin platy

few mica

isaprolite

11.5

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/30/10	1	5.3'	Visual	Water	seeps		F
5/30/10	2	5.5' 10'	11:01	11:03	11:07	4	P
5/30/10	3	5.3' 11.5'	11:44	11:47	11:52	5	P

REMARKS

#3 is in garden

SANITARIAN

R Bricker

BACKHOE

Freedom Septic
Andrew & Brian

OTHERS

Jeff Banner

AVG. PERC TIME

SQ. FT/BR

TEST HOLES USED IN SDA

TRENCH WIDTH

INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE SW

2

dk brn L

2 vfsbk

yel-red L

7 fsbk

0.9

brn to

yel-red pbls

(15-20% quartz pebbles)

1.5

yel-red L, ss

2 fsbk, common mica

2

yel-red fs

thin platy

ss, common mica

3

red-brn chls

platy black

red

many coats on rock frag.

3.4

yel-red vchls

35-40% rock

platy, common mica

10

water seeps

pale brn

vchls, saturated

common mica

11.4

A/P

(4)

brn L, 2v f sbk
 Brn L, 1 f sbk
 1' red-brn cl
 2 f sbk few
 2.5' few mica channers
 red-brn
 chsl, platy
 few mica
 3.6' lt brn sl, platy
 many v.f. mica
 10-15% Plags
 & channers
 4.8' yel-red, brn
 & dk brn chls
 to lt. brn
 & gray-brn
 chls, platy
 many mica
 13' dry

(7)

6.3' dk grey-brn
 chls, platy
 many mica
 water seeps

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/30/18	4	5' 13"	12:51	12:53	12:57	4	P
5/30/18	5	5' 9"	1:37	2:00	2:28	28	P
5/30/18	6	13'	Visual	5-9"	1.2 gpd/ft ²		P
5/30/18	7	6.3'	Visual	saturated	water seeps		F

REMARKS #6 is observation; pairs with #4.

SANITARIAN R Bricker

BACKHOE Freedom septic

OTHERS

Jeff Banner

TEST HOLES USED IN SDA

AVG. PERC TIME

SQ. FT/BR

TRENCH WIDTH

INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE S/W

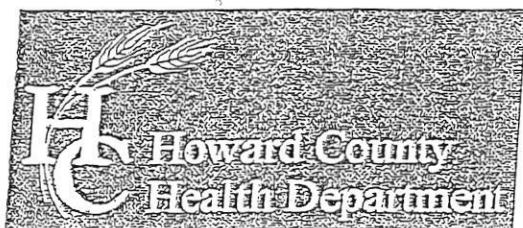
(6)

dk brn L
 brn L, 2 f sbk
 1.5' brn sl & ls
 many mica
 2.1' red & yel-red
 sl common
 mica
 few boulders
 3.6' yel-red
 & lt. brn sl
 5' lt. brn & gray-brn
 chls, platy
 many mica
 few blk cats on rock frag.
 13' +

(5)

dk brn L
 2v f sbk
 brn L, 2 f sbk
 0.7' red-brn L
 2 f sbk
 1.4' yel-red L
 1 f sbk few
 mica
 3.3' yel-red sl
 on common
 mica
 4' pale brn
 & pale yel-red
 1 f, thick platy
 many f. & v.f.
 mica
 5' lt brn & pale brn
 1 chls, platy
 many mica
 9' water seeps
 dk grey-brn chls
 many mica

11



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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 4931 Green Bridge Road
Subdivision: _____ Lot: _____

Initial system: Application rate: 1.2 Effective area beginning depth: 5 Bottom maximum depth: 9

1st Replacement: Application rate: 1.2 Effective area beginning depth: 5 Bottom maximum depth: 9 * (7.5')

2nd Replacement: Application rate: 1.2 Effective area beginning depth: 3.5 Bottom maximum depth: 6

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:

$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

If two trenches
needed for
1st Replacement
system,
use 7.5' as
max. 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:

Approved: R. Buck

Date: 6/14/2018

Address:
4921 GREEN BRIDGE RD

DAYTON, MD 21036

PROPERTY OWNERS:
JEFFREY AND DIANE BANNER
410-371-3701
Howard Co. Tax ID # 90547

BOUNDARY SURVEY
PARCEL 137
TAX MAP 28, GRID 7
RESIDUE OF L. 471, IF. 553
HOWARD COUNTY, MARYLAND

LOT HOMESTEADED IN 1967.

Approved for Private Water and Private Sewage Systems

Approved for Private Water and Private Sewage Systems
Health Officer, Howard Co. Health Dept. *in MB* Date

GgC

GgC

(2003) N 24d 38' 16" E 362.12'

GREEN BRIDGE RD

BaA

GgC

PROPOSED SEWAGE
DISPOSAL AREA - 1,957 SF

SITE ZONING = RR-DEO

PROPOSED 2" REPLACEMENT
TRENCHES - 146 LF

GgC

NATURAL GAS
PIPELINE
RIGHT OF WAY
50.00'

(2003) S 05d 46' 53" W 522.72'

PIGTAIL CREEK

BaA

EXIST. 1 STORY WOOD
FRAME WITH BASEMENT -
4 BEDROOM - SINGLE
FAMILY RESIDENCE

BaA

EXIST. 1 STORY
BARN

EXIST. WELL
TO REMAIN

WELL SET BACK
100'-0"

EXIST. PATIO

GgC

BaA

(2003) N 43d 56' 17" E 116.59'

(2003) N 53d 54' 49" W 292.03'

GgB

GgB

GgC

EXIST. SEPTIC TANK
TO REMAIN (PER
APPROVED WAIVER)

EXIST. DRY WELL TO BE
ABANDONED AND FILLED

NEW 1 STORY WD DECK

PROPOSED INITIAL AND 1" REPLACEMENT
TRENCHES - 176 LF

PROPOSED SEWAGE
DISPOSAL AREA - 2,302 SF

10' LOT LINE SETBACK

100.00'
STREAM SETBACK

NORTH

0' 25' 50'

PURPOSE STATEMENT

The purpose for this percolation certification plan is to establish a sewage disposal area in support of a proposal to replace a deck and to replace the existing dry well

PERCOLATION TEST PIT LOCATION LEGEND

[PASS] PASSED - PERCOLATION TEST PIT LOCATION

[FAIL] FAILED - PERCOLATION TEST PIT LOCATION

Soil Map Unit delineation vrb

PERCOLATION CERTIFICATION PLAN NOTES

1. This area designates a private sewage area as required by the Maryland State Department of the Environment for individual sewage disposal. Improvements of any nature in this area are restricted until public sewerage is available. These areas 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.
2. Lot homesteaded in 1967.
3. Topography shown is at two-foot contour intervals (one-foot intervals are required for mound systems and systems with pipe depth less than two feet) and has been field verified or field run.
4. Any changes to a private sewage area shall require a revised percolation certification plan.
5. Existing wells, septic systems, and sewage disposal areas within 100' of the property and those within 200' downgradient of existing or proposed septic systems or sewage disposal areas have been shown using all reasonable efforts.
6. A waiver reducing the setback to five (5) feet for sewage disposal area to property lines for the sewage disposal area containing the initial trench and the 1" replacement trench is applied as illustrated on this plan.
7. The existing septic tank shall remain per approved waiver.
8. Should a replacement well be needed, either the location of the septic tank will have to be moved, or a variance will be needed from Maryland Department of the Environment to allow a well to be installed within 100 feet of the septic tank.
9. The onsite sewage disposal system (OSDS) shall be upgraded, the existing dry well abandoned, and the OSDS installation permit approved prior to Health Department approval of the building permit to construct a new deck.

Topography provided at two-foot intervals has been field verified. Existing Residence Basement elevation 540'.

Existing well to remain - no new well drilling

The engineer shall use all reasonable efforts to find the location of all surrounding wells and septic systems.

I, Jeffrey Banner, RA, certify that the information shown herein is based on field work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief.

Any changes to a private sewage easement shall require a revised percolation certification plan.

The Health Dept. has granted a waiver to allow the existing septic tank to remain under a deck to be constructed on the condition that new support piers are at least five (5) feet from the walls of the tank or the locations of the piers certified by a structural Engineer to not compromise the integrity of the septic tank. vrb per J.B.

1 Percolation Certification Plan
1" = 50'-0"

A562995

JOB NO. 101-17
DRAWN BY: JB
DATE: June 20, 2018
SCALE: 1"=50'-0"
DRAWING: Percolation Certification Plan
SHEET: C102

BANNER
ARCHITECTS
4921 GREEN BRIDGE RD
DAYTON, MARYLAND 21036
Tel: 410-371-3701

4921 GREEN BRIDGE ROAD
Percolation
Certification Plan
Jeffrey and Diane Banner
4921 GREEN BRIDGE ROAD
Dayton, Maryland 21036
Tel: 410-371-3701
Tax ID # 90547

HEALTH OFFICER
SIGNATURE BLOCK
Approved for Private Water and
Private Sewer Systems

Health Officer, Howard
County Health Dept.
Date:

Address:
4921 GREEN BRIDGE RD

DAYTON, MD 21036

PROPERTY OWNERS:
JEFFREY AND DIANE BANNER
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BOUNDARY SURVEY
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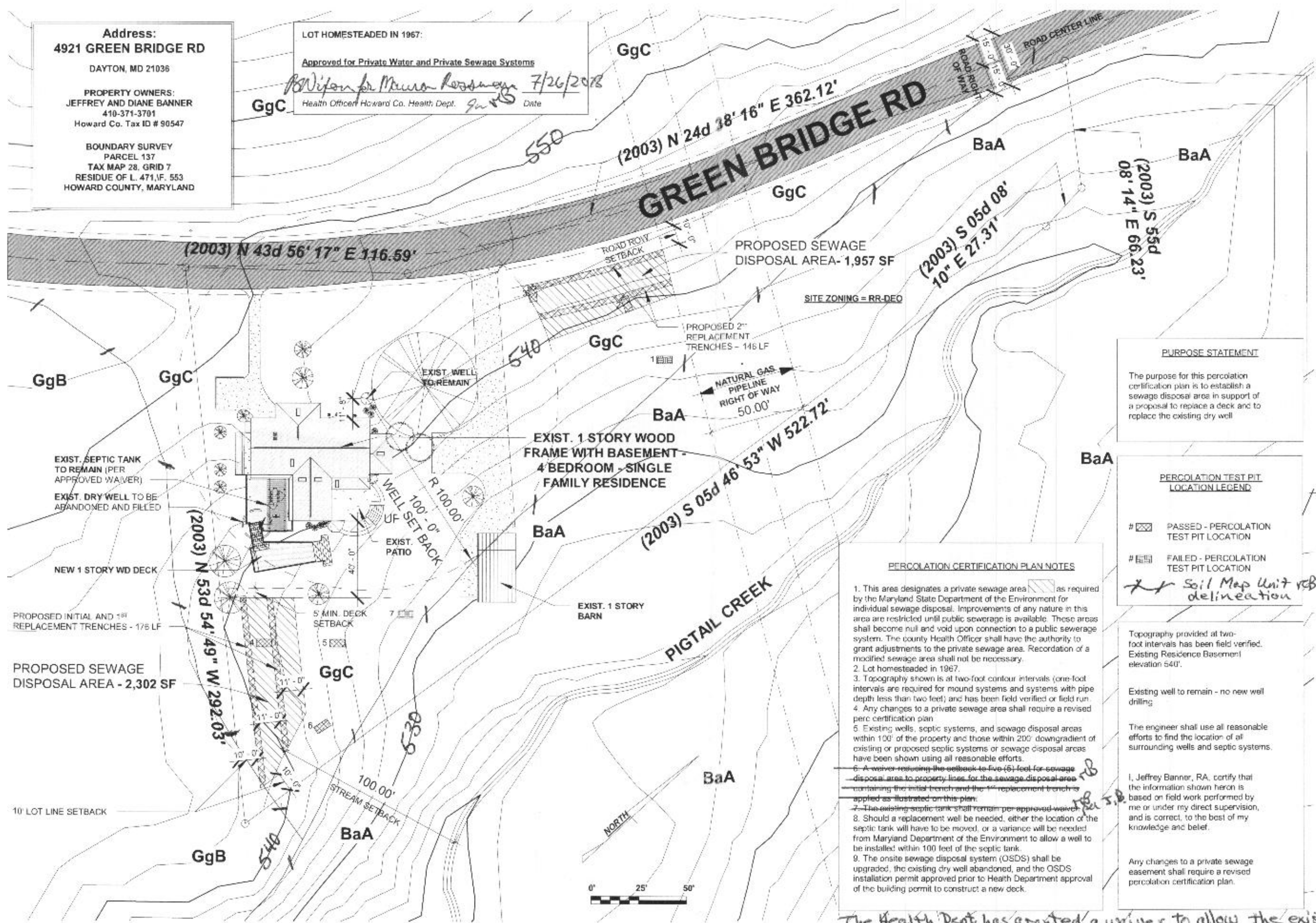
LOT HOMESTEADED IN 1967:

Approved for Private Water and Private Sewage Systems

Health Officer Howard Co. Health Dept.

7/26/2018

Date



PROPOSED SEWAGE
DISPOSAL AREA - 1,957 SF

SITE ZONING = RR-DEO

NATURAL GAS
PIPELINE
RIGHT OF WAY
50.00'

EXIST. 1 STORY WOOD
FRAME WITH BASEMENT -
4 BEDROOM - SINGLE
FAMILY RESIDENCE

EXIST. 1 STORY
BARN

PERCOLATION CERTIFICATION PLAN NOTES

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- # [Symbol] FAILED - PERCOLATION TEST PIT LOCATION

Soil Map Unit rB delineation

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Any changes to a private sewage easement shall require a revised percolation certification plan.

JOB NO.: 101-17
DRAWN BY: JB
DATE: June 29, 2018
SCALE: 1"=50'-0"
DRAWING: Percolation Certification Plan
SHEET: C102

BANNER
ARCHITECTS
4921 GREEN BRIDGE RD
DAYTON, MARYLAND 21036
Tel: 410-371-3701

4921 GREEN BRIDGE ROAD
Percolation
Certification Plan
Jeffrey and Diane Banner
4921 GREEN BRIDGE ROAD
Dayton, Maryland 21036
Tel: 410-371-3701
Tax ID # 90547

**HEALTH OFFICER
SIGNATURE BLOCK**
Approved for Private Water and
Private Sewer Systems

Health Officer, Howard
County Health, Dept.
Date:

1 Percolation Certification Plan
1" = 50'-0"

A562995

The Health Dept. has granted a waiver to allow the existing septic tank to remain under a deck to be constructed on the condition that new support piers are at least five (5) feet from the tank walls, of the locations of the piers certified by a Structural Engineer to not compromise the integrity of the septic tank. rB per JB