



# HOWARD COUNTY HEALTH DEPARTMENT

64016

DATE

10/2/18

A5

Received  
From

South Carroll Backhoe  
Ma.

PHONE # 410-875-4197

☐ CASH  
☒ CHECK

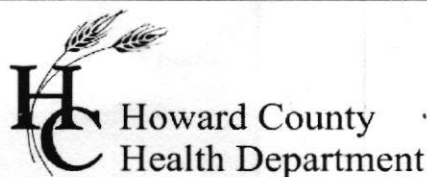
NO.  
53631

For Septic Permits (6) (Brighton Hill  
lot 2, 12, 6, 3, 11) 13801 Mill Creek Court  
(2) repairs - 125 Bolly Quigley 4921 Green\*  
Two thousand seven hundred and six bridge  
Dollars

\$ 2706.00

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](http://www.hchealth.org)  
Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 10/2/10 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 564016

APPROVAL DATE:                      **PERMIT: CONSTRUCTION**

A                     

PROPERTY ADDRESS: 4921 GREEN BRIDGE ROAD, DAYTON, MD 21036

SUBDIVISION: TAX MAP 25, PARCEL 137

LOT: ----- TAX ID: 05-370590

CONTRACTOR: SOUTH CARROLI. BACKHOE

EMAIL: SCBACKHOE@COMCAST.NET

CONTRACTOR ADDRESS: 4410 SALEM BOTTOM ROAD, WESTMINSTER, MD 21157

PHONE: 410-596-3618

PROPERTY OWNER: JEFFREY AND DIANE BANNER

EMAIL: jdbanner@verizon.net

OWNER ADDRESS: 4921 GREEN BRIDGE ROAD, DAYTON, MD 21036

PHONE: (410)371-3701

SEPTIC TANK SIZE (GALLONS): existing

TANK MANUFACTURER: N.A.

PUMP MODEL: N.A.

PUMP SIZE

N.A.

PUMP TANK CAPACITY: N.A.

DISTRIBUTION SYSTEM: ☒ GRAVITY ☐ PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>90</u>	INLET DEPTH: <u>4.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>9.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>-</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	WAIVER GRANTED TO ALLOW SEPTIC TANK TO REMAIN IN PLACE. INSTALL 90-FT TRENCH ON CONTOUR. BACK LINE FROM SEPTIC TANK TO CROSS CURRENT LOCATION OF DRY WELL PUMP DRY AND ABANDON EXISTING DRY WELL.	

ISSUED BY: R BRICKER

ISSUE DATE: 10/2/10 EXPIRATION DATE: 10/2/19

NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION

NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING

NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.

NOTE: WATERTIGHT TANKS REQUIRED

NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

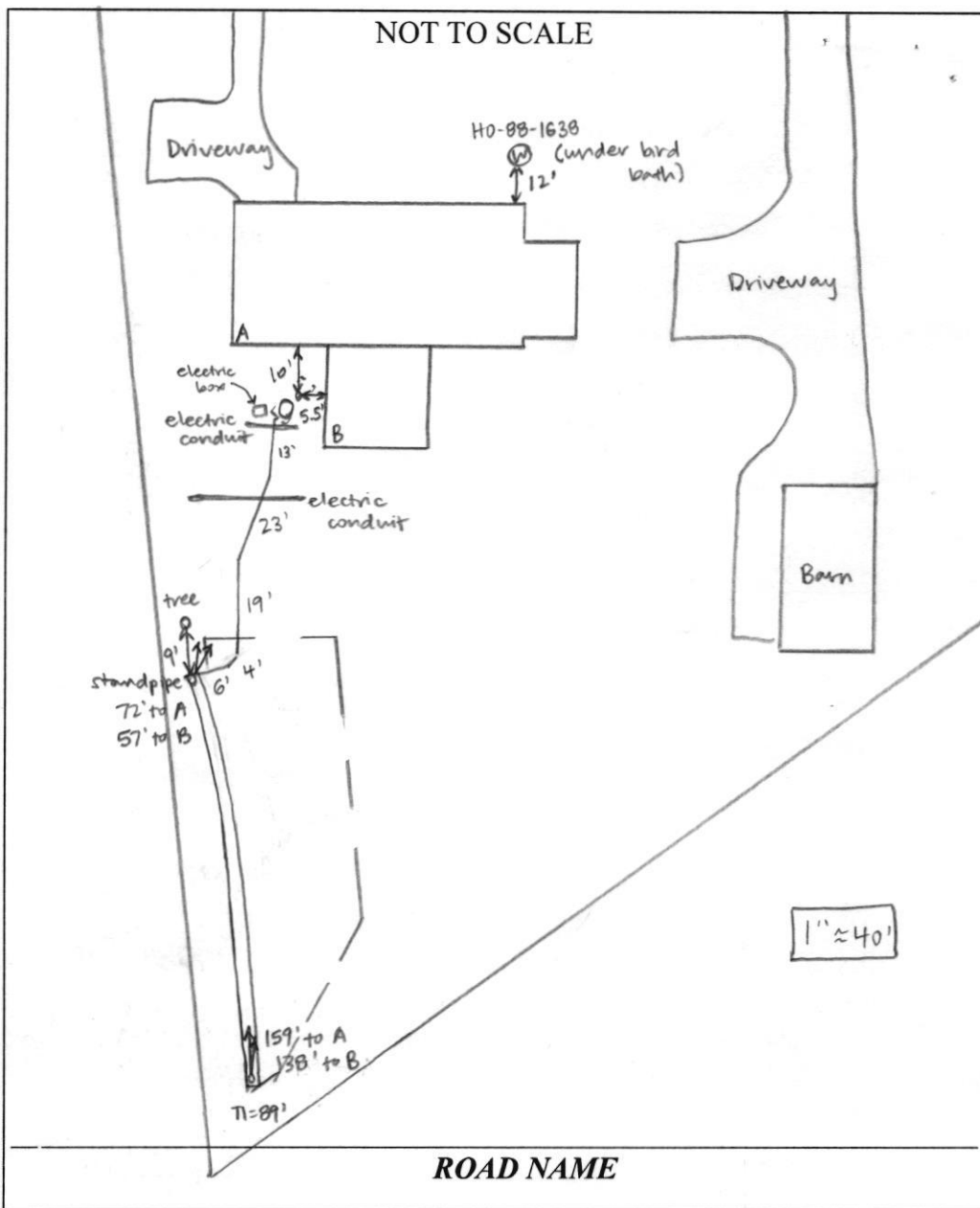
☐ ELECTRICAL PERMIT ISSUED E                     

NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.**

**PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.**

**CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**



### TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	9'
NUMBER OF TRENCHES		1
TOTAL LENGTH		89'
ABSORPTION AREA		267' + SIDEWALL
DISTRIBUTION BOX LEVEL		—
DISTRIBUTION BOX BAFFLE		—
DISTRIBUTION BOX PORT		—

### SEPTIC TANK DATA

**SEPTIC TANK 1 LEVEL** (Existing)

MANUFACTURER ?

CAPACITY 1000 GAL

SEAM LOC MID

TANK LID DEPTH 2-2.5'

BAFFLES YES

BAFFLE FILTER NO

MANHOLE LOC REAR

6" PORT LOC MIDDLE

WATERTIGHT TEST —

SLOTTED NO

DATE ON LID —

### PUMP/SEPTIC TANK LEVEL

MANUFACTURER

CAPACITY GAL

SEAM LOC

TANK LID DEPTH

BAFFLES

BAFFLE FILTER

MANHOLE LOC

6" PORT LOC

WATERTIGHT TEST

SLOTTED

DATE ON LID

### PRE-CONSTRUCTION:

10/31/18 Met S. Carroll and homeowner/Engineer of Record on site. Homeowner staked prop. line, SDA corners + initial trench per plan. End of trench is 26" higher than beginning - move start uphill a few feet to make difference a 21". 90' of initial trench staked. Make end of trench 9' depth and keep level - will be ~7' at start. Keep inlet as shallow as possible; can make 3' inlet at start of trench. Location of deck not staked - told homeowner that trench must meet 5' setback. (SC)

INSTALLATION: 11/1/18 South Carroll digging trench + adding stone. 8.5' bottom ~20' from end. 3' wide, 3.5' to stone. Using transit to keep bottom level. On site for remainder of digging - trench 7' depth at start. Standpipe at start is solid, extends to trench bottom. (SC) 11/13/18 Tank connected to new trench. Manhole riser added to tank outlet, new baffle installed. Drywell pumped + filled w/ #57 stone. Electric conduit runs across line at tank outlet, main electric into house also crosses sewer line. (SC)

FINAL INSPECTOR \_\_\_\_\_ DATE OF APPROVAL \_\_\_\_\_

# Banner Deck Project – 4921 Green Bridge Road, Dayton, MD

## Request for Waiver from Howard County Code

### Section 3.808 (C): Location of Onsite Sewage Disposal System/Distances And Other Relief

#### Background

- Diane and Jeffrey Banner (the Banners) are the homeowners and have resided at 4921 Green Bridge Road, Dayton, MD 21036 (the home) since July 2003.
- The Banners are in the process of replacing the deck that was existing when they purchased the house.
- Unbeknownst to the Banners, the deck off the southeast side of the house was a nonconforming use because it was situated above the septic tank and partially over a dry well.
- Banners have received a waiver from County Health Department (Bureau of Environmental Health) to keep the existing septic tank below the new deck.
- The waiver required "if there will be a support pier within 5 feet of a septic tank wall, a structural engineer's letter of certification will be required in addition to the construction detail and plot plan for the deck."
- Before the new deck is built, the dry well will be remediated and replaced with a sewage distribution trench.
- The Banners had a percolation test performed on May 30, 2018.
- Results from the test indicated two potential sewage disposal areas.
- One potential sewage disposal area is behind the house at an elevation that allows gravity flow from the existing septic tank.
- The other potential sewage disposal area is slightly uphill from the existing septic tank discharge and located along Green Bridge Road right-of-way. This area would require a pump tank and pump when developed.
- The initial and the first replacement trenches will be more effective if they are placed as far uphill as possible. Due to the site conditions this will require them to be within 5 feet of the lot line.
- Based on information provided by the Environmental Health Specialist at the time of the tests, department policy requires installation of a pump tank for the second replacement trench reserve field at the same time of the initial distribution trench installation.

Banner Deck Project – 4921 Green Bridge Road, Dayton, MD

Request for Waiver from Howard County Code

Section 3.808 (C): Location of Onsite Sewage Disposal System/Distances  
And Other Relief

**Now therefore:**

**1. The Banners request a waiver from the requirement that the sewage disposal easement area be 10 feet from the lot line. Specifically:**

- That the minimum distance be reduced to 5 feet (side and rear yards) from proposed new septic easement to the lot lines based on the following:
  - Proposed new septic easement is downhill from adjacent lot line and should therefore not impact adjacent properties.
  - Adjacent property owner has agreed to the reduced setback to the easement.
  - Waiver would allow best use of soil profiles based on completed percolation tests.

**2. The Banners request to be allowed to provide the new holding tank (and pump) to be installed at a later date when the reserve field is required because:**

- The area for the two distribution systems identified in the tests does not require a holding tank or pumped system.
- It would create a financial hardship for the Banners to provide a sewage pump tank that would be unused and not required for a functioning system for upwards of 60 years.
- A sewage pump tank which would be unused and not required for a functioning system would deteriorate below grade before it was required.

**3. The Banners request to be allowed to have a registered architect in the State of Maryland provide the Letter of Certification regarding the structural integrity of the existing septic tank within 5' of new support piers based on the following:**

- New support piers would be supporting only a single level deck which would have less than five (5) thousand pounds total load.
- New support piers within 5 feet of the existing septic tank would be lowered to the elevation of the bottom of the existing tank so that there would be no additional surcharge load on the existing tank.
- The registered architect is competent to analyze and certify the structural integrity of the existing septic tank with new support piers located within 5 feet of the existing tank.

Banner Deck Project – 4921 Green Bridge Road, Dayton, MD


Request for Waiver from Howard County Code

Section 3.808 (C): Location of Onsite Sewage Disposal System/Distances


And Other Relief

**Additional Points**

- Public health, safety, or welfare will not be negatively affected by granting this waiver and other relief.

  
Diane Banner

6/15/18  
Date

  
Jeff Banner

6/15/2018  
Date

## Bricker, Robert

---

**From:** Jeffrey Banner <jdbanner@verizon.net>  
**Sent:** Thursday, July 19, 2018 11:25 AM  
**To:** Bricker, Robert  
**Cc:** diane@dbinstructionalsystems.com  
**Subject:** Re: 4921 Green Bridge Road\_Percolation Certification Plan

Permission is granted to -- strike Note 7 and handwrite the "The Health Department 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 or the locations of the piers certified by a Structural Engineer to not compromise the integrity of the septic tank." note onto the Percolation Certification Plan and re-submit for signature approval.

Also, please confirm that the waiver request to not provide the pump tank at this time has been granted.

Thanks,

Jeffrey Banner  
[jdbanner@verizon.net](mailto:jdbanner@verizon.net)

-----Original Message-----

From: Bricker, Robert <RBricker@howardcountymd.gov>  
To: Jeffrey Banner <jdbanner@verizon.net>  
Cc: diane <diane@dbinstructionalsystems.com>  
Sent: Thu, Jul 19, 2018 9:34 am  
Subject: 4921 Green Bridge Road\_Percolation Certification Plan

Good morning Mr Banner,

An edit is needed on the Percolation Certification Plan submitted on July 3. A note specifying the condition of granting the waiver for the existing septic tank to remain is needed, as follows:

"The Health Department 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 or the locations of the piers certified by a Structural Engineer to not compromise the integrity of the septic tank."

You may replace Note 7 with this Note and re-submit the Percolation Certification Plan for approval, OR with your permission (by 'Reply') I may strike Note 7 and handwrite the note onto the Percolation Certification Plan and re-submit for signature approval.

Respectfully,

Robert Bricker, REHS/RS, L.E.H.S.

**From:** Jeffrey Banner [<mailto:jdbanner@verizon.net>]  
**Sent:** Wednesday, June 13, 2018 2:42 PM  
**To:** Bricker, Robert  
**Cc:** [diane@dbinstructionalsystems.com](mailto:diane@dbinstructionalsystems.com)  
**Subject:** Re: 4921 Green Bridge Rd, Dayton, MD - Preliminary Percolation Certification Plan and sewage discharge easement areas

Robert,

When do you expect to be able to have the review for this complete?



Thanks,

Jeffrey Banner  
[jdbanner@verizon.net](mailto:jdbanner@verizon.net)

-----Original Message-----

From: Bricker, Robert <[RBricker@howardcountymd.gov](mailto:RBricker@howardcountymd.gov)>  
To: Jeffrey Banner <[jdbanner@verizon.net](mailto:jdbanner@verizon.net)>  
Cc: diane <[diane@dbinstructionalsystems.com](mailto:diane@dbinstructionalsystems.com)>  
Sent: Mon, Jun 11, 2018 11:12 am  
Subject: RE: 4921 Green Bridge Rd, Dayton, MD - Preliminary Percolation Certification Plan and sewage discharge easement areas

Sorry for the delay. I've been away from the office for a few days. I'll check these today or tomorrow.  
Robert Bricker, REHS/RS, L.E.H.S.

**From:** Jeffrey Banner [<mailto:jdbanner@verizon.net>]  
**Sent:** Friday, June 08, 2018 10:51 AM  
**To:** Bricker, Robert  
**Cc:** [diane@dbinstructionalsystems.com](mailto:diane@dbinstructionalsystems.com)  
**Subject:** Re: 4921 Green Bridge Rd, Dayton, MD - Preliminary Percolation Certification Plan and sewage discharge easement areas

Robert,

We would like to get these formally submitted today if at all possible. Please let us know if you have any changes that you recommend that we make and we will drop off hard copies to Environmental Health this afternoon.

Thanks,

Jeffrey Banner  
[jdbanner@verizon.net](mailto:jdbanner@verizon.net)

-----Original Message-----

From: Jeffrey Banner <[jdbanner@verizon.net](mailto:jdbanner@verizon.net)>  
To: RBricker <[RBricker@howardcountymd.gov](mailto:RBricker@howardcountymd.gov)>  
Cc: diane <[diane@dbinstructionalsystems.com](mailto:diane@dbinstructionalsystems.com)>  
Sent: Wed, Jun 6, 2018 10:06 pm  
Subject: 4921 Green Bridge Rd, Dayton, MD - Preliminary Percolation Certification Plan and sewage discharge easement areas

Robert.

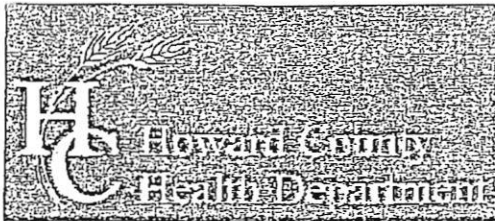
Please find attached a copy of the Preliminary Percolation Certification Plan.

We have also prepared a waiver submission, also attached.

Please let us know if you have any questions or comments.

Thanks,





## 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

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

### INFORMATION FORM – SEPTIC SYSTEM REPAIR/UPGRADE

#### Reason for Request:

- ☐ Failing System
- ☐ System relocation for proposed addition
- ☐ System upgrade for proposed addition
- ☐ Inadequate treatment zone
- ☐ Collapsed septic tank
- ☐ Collapsed drywell

#### Has the septic tank been pumped within the last month?

- ☐ Yes Date pumped: \_\_\_\_\_
- ☐ No

#### Was a visual inspection of the septic tank and/or drain fields conducted?

- ☐ Yes Explain observations: \_\_\_\_\_
- ☐ No Unknown

#### Was a visual inspection of the sewage line conducted?

- ☐ Yes
  - Blockage leading to the tank
    - ☐ Yes Explain: \_\_\_\_\_
    - ☐ No
  - Blockage leading to the field
    - ☐ Yes Explain: \_\_\_\_\_
    - ☐ No

#### Existing system design

- ☐ Drywell
- ☐ Trench
- ☐ Mound
- ☐ Unknown
- ☐ Other: \_\_\_\_\_

#### Is discharge surfacing on the ground?

- ☐ Yes
- ☐ No

Additional Comments: \_\_\_\_\_

\*For REPAIRS, are the owners proposing, or do they plan to add in the future, any additions or modifications to the property, i.e. pools, living space additions, garages, etc? This information must be disclosed at the time of this application. The Health Department will not be able to accommodate requests in the field for property modifications unrelated to the repair request. Such requests may require an additional fee, testing, and submittal of a Percolation Certification Plan, if the property does not meet current Code and Regulation.

Septic Contractor: South Carroll Repairs Contractor's Phone: 410-596-3618

Contractor's Address: 4910 Salem Bottom Rd Westminster MD 21157

Property Address: 4921 Green Bridge Rd County file: \_\_\_\_\_

Subdivision: \_\_\_\_\_ Lot: \_\_\_\_\_ Year Built: \_\_\_\_\_

Owner's Name: Jeff Banner Owner's Phone: 410-371-3701

Name of previous owners: \_\_\_\_\_ Existing bedrooms: \_\_\_\_\_  
Proposed bedrooms: \_\_\_\_\_

Has this request been previously discussed with a Sanitarian? (Name): \_\_\_\_\_

Public Sewer available/nearby: No

\*A Sanitarian will be in contact within three business days, depending upon the urgency of the situation, to coordinate the scheduling/review of the repair or upgrade.

\*Prior to scheduling inspections, scaled plans should be submitted to clarify the nature of the addition.\*

Print out a copy of Real Property Data via Dept. of Taxation website \_\_\_\_\_ Indexed file found \_\_\_\_\_

If public sewer may be nearby, verify whether sewer is technically "available" through the Bureau of Engineering.

If sewer is available and the property is within the Metropolitan District, connection to sewer is required: If the owner believes reason for exemption exists, the owner should justify the request in writing.

If soil/site conditions are limited and sewer and/or Metro District status is not conducive to connection, the Sanitarian may recommend pursuit of Emergency Sewer Extension or Emergency Metro District Inclusion. The Owner should contact the Bureau of Utilities for details.

No permit is to be issued nor inspection to be scheduled without prior fee collection at the office unless an emergency situation exists. The contractor is to notify office of the emergency situation as soon as possible.

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

**GgC**

**GgC**

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

**GREEN BRIDGE RD**

Ggc

**GgC**

BaA

BaA



### PLAN NOTES

1. Any change to the locations or depths to any components must be approved by the engineer and the Howard County Health Department prior to installation. A revised site plan may be required.
2. The maximum earth cover over the tank is 3 feet. Greater earth cover will require a heavy load bearing tank.
3. Electrical work for the installation must be performed by a licensed electrician.
4. The well (tag # HO-88-1638) has been field located and is accurately shown.
5. 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.

### 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

- #  PASSED - PERCOLATION TEST PIT LOCATION
- #  FAILED - PERCOLATION TEST PIT LOCATION

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.

JOB NO.: 101-17  
DRAWN BY: JB  
DATE: August 27, 2018  
SCALE: 1"=50'-0"  
DRAWING: Onsite Sewage Disposal System Design Plan  
SHEET: C103

BANNER  
ARCHITECTS

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

4921 GREEN BRIDGE ROAD  
 Berkeley — **OSDS Plan**

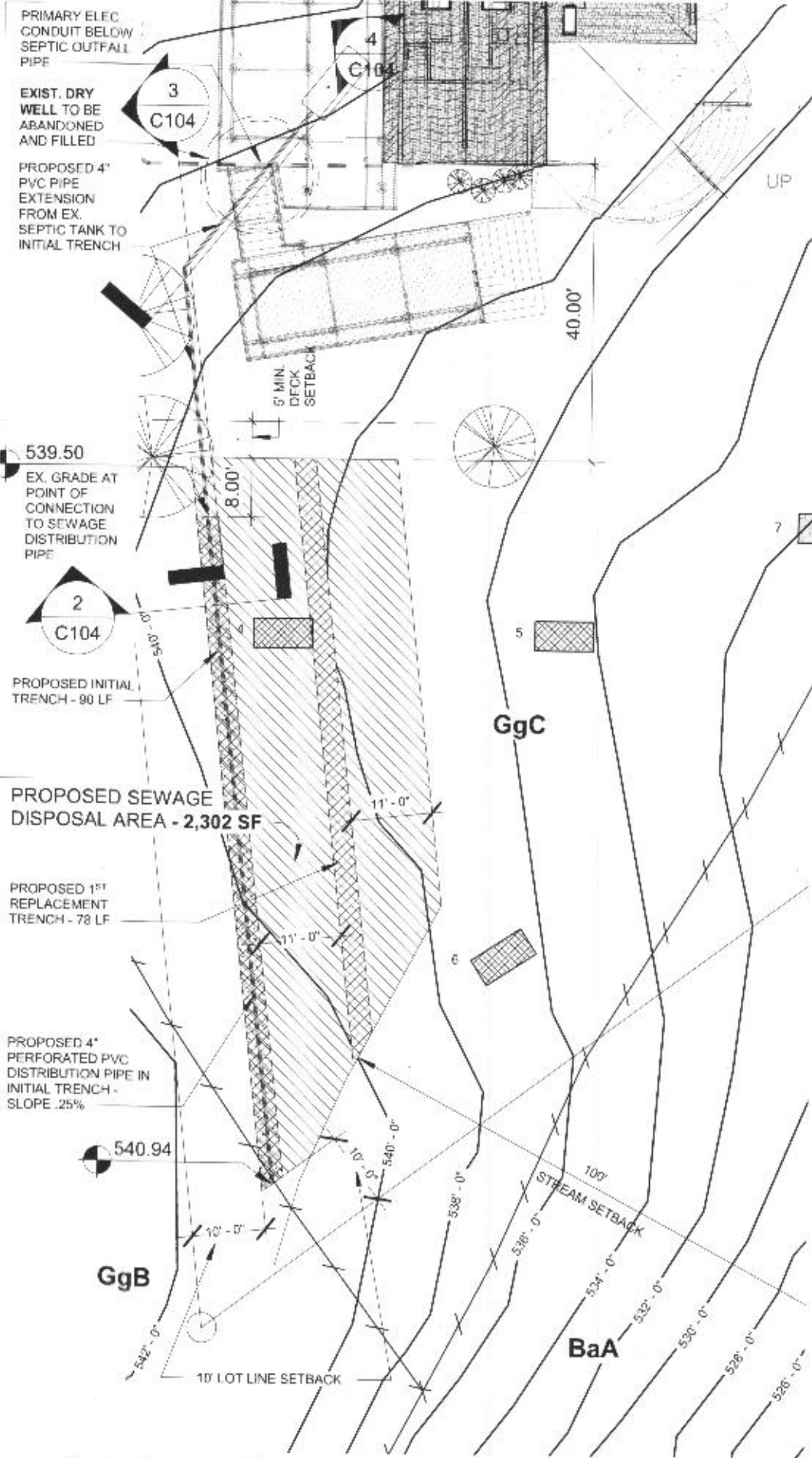
Jeffrey and Diane Banner  
4921 GREEN BRIDGE ROAD  
Dayton, Maryland 21036  
Tel: 410-371-3701  
Fax: 410-371-3701

**C103**

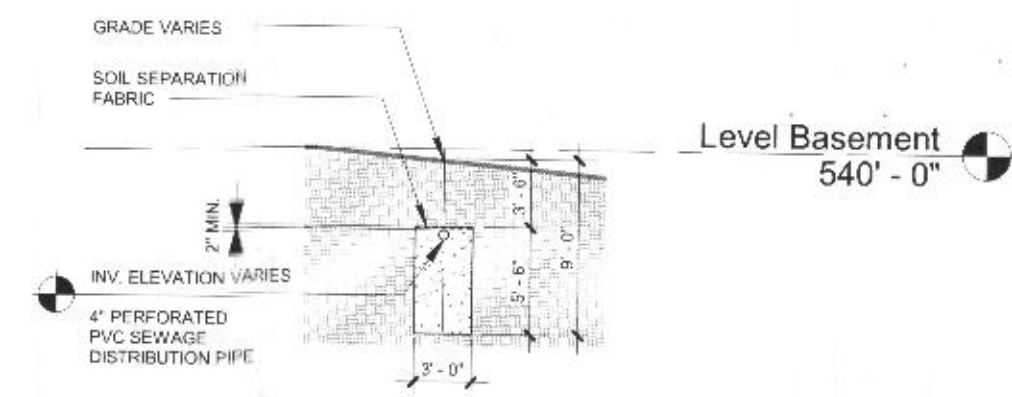
## Onsite Sewage Disposal System Design

Plan  
1" = 50'-0"

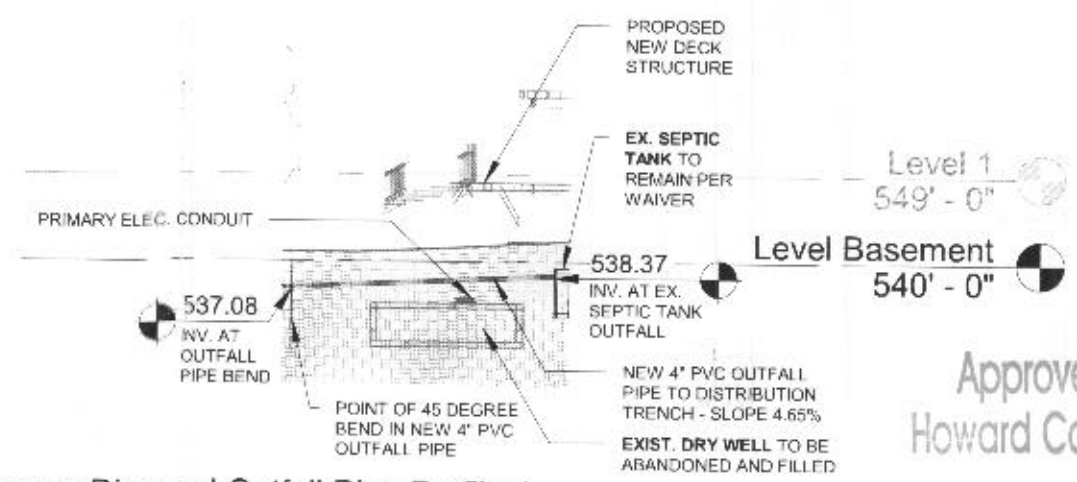




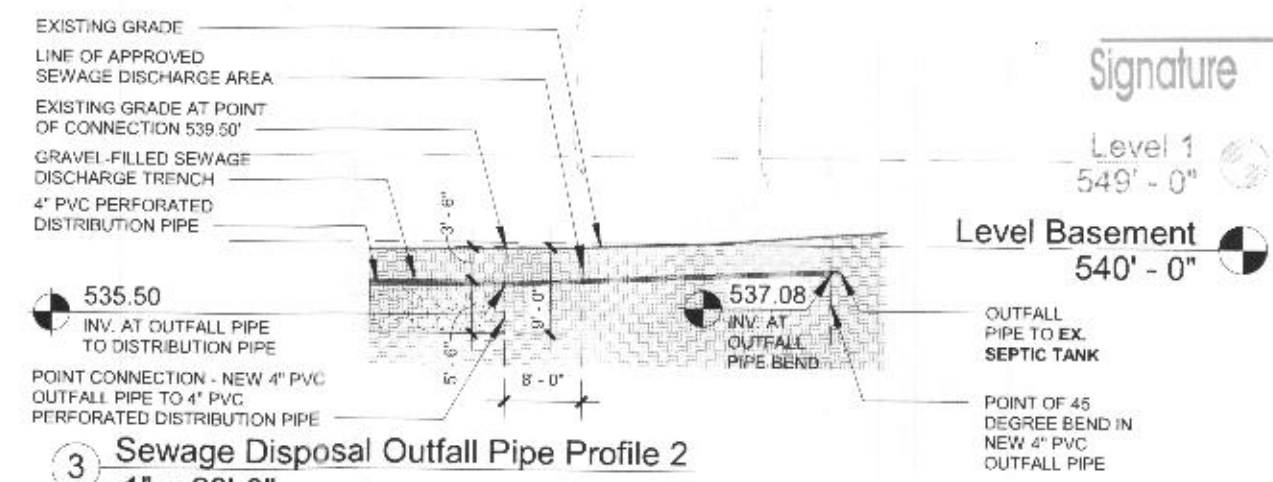
**1 Onsite Sewage Disposal System Enlarged Design Plan**  
1" = 20'-0"



**2 Sewage Disposal Installation Section Detail**  
1" = 10'-0"



**4 Sewage Disposal Outfall Pipe Profile 1**  
1" = 20'-0"



**3 Sewage Disposal Outfall Pipe Profile 2**  
1" = 20'-0"

**MATERIAL SPECIFICATIONS**  
SOIL SEPARATION FABRIC:  
NON-WOVEN, SPUN, GEOTEXTILE GRADE FABRIC.  
GRAVEL FILL FILTER MATERIAL:  
WASHED GRAVEL - 1/2" to 2-1/2" DIAMETER

Approved Septic System Plan  
Howard County Health Department

Signature \_\_\_\_\_ Date \_\_\_\_\_

**PLAN NOTES**

1. Any change to the locations or depths to any components must be approved by the engineer and the Howard County Health Department prior to installation. A revised site plan may be required.
2. The maximum earth cover over the tank is 3 feet. Greater earth cover will require a heavy load bearing tank.
3. Electrical work for the installation must be performed by a licensed electrician.
4. The well (tag # HO-88-1638) has been field located and is accurately shown.
5. 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.

JOB NO: 101-17  
DRAWN BY: JB  
DATE: August 27, 2018  
SCALE: Onsite Sewage Disposal System Enlarged Design Plan & Details  
SHEET: C104

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

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