

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

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

RECEIPT DATE: 2/17/17 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 52544

APPROVAL DATE: 9/5/17 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 3226 Boones Lane

SUBDIVISION: _____ LOT: _____ TAX ID: 02-216345

CONTRACTOR: K & T Plumbing ~~(213)~~ EMAIL: _____

CONTRACTOR ADDRESS: 3427 Old Taneytown Road, Taneytown, MD 21787 PHONE: 443-844-9073

PROPERTY OWNER: LT Ventures LLC. EMAIL: (Zak) HNS 980-1399

OWNER ADDRESS: 10382 Baltimore National Pike, Ellicott City, MD 21042 PHONE: 410-465-4103

SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: Mayer Bros

PIUMP MODEL: _____ PUMP SIZE _____ PUMP TANK CAPACITY: 1500

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 3 APPLICATION RATE: 0.8

| | | |
|-----------|---|--|
| TRENCHES: | LINEAR FEET REQUIRED: <u>72'</u> | INLET DEPTH: <u>3</u> |
| | TRENCH WIDTH: <u>3</u> | MAXIMUM BOTTOM DEPTH: <u>7.5</u> |
| | MINIMUM SPACE BETWEEN TRENCHES: <u>12</u> | EFFECTIVE AREA BEGINNING DEPTH: <u>3</u> |
| LOCATION: | PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION. | |
| NOTES: | | |

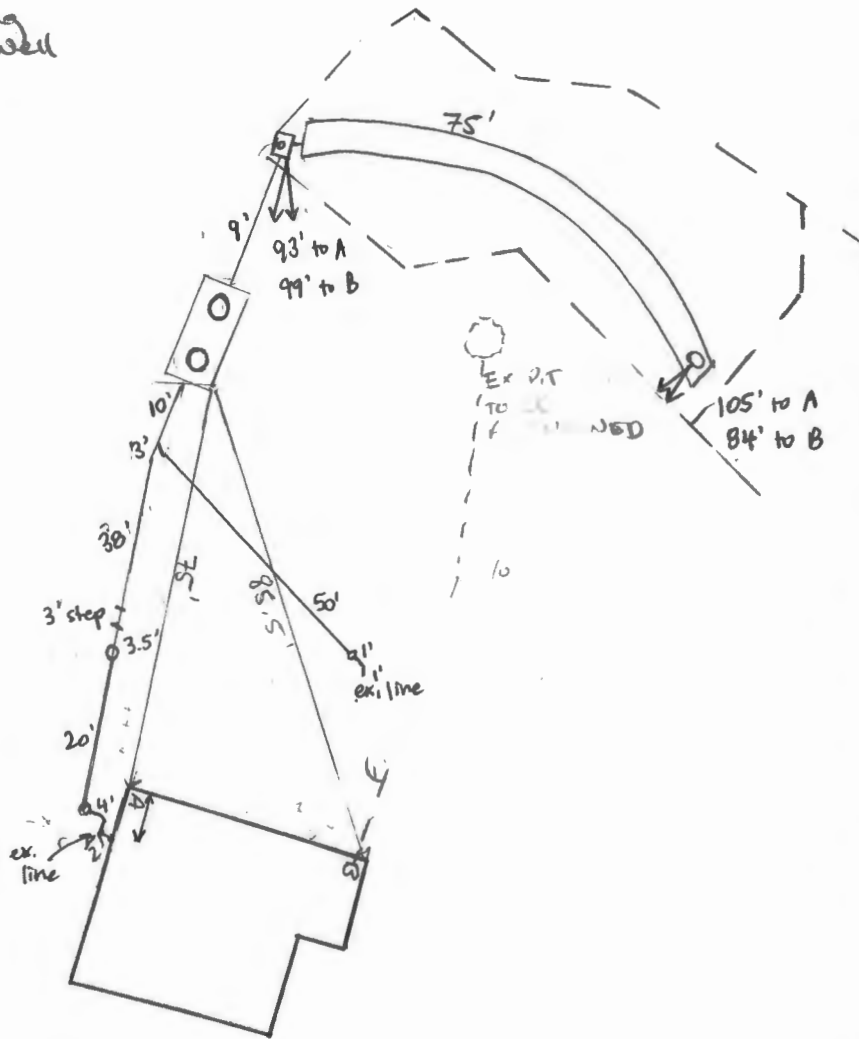
ISSUED BY: _____ ISSUE DATE: 2/17/17 EXPIRATION DATE: 2/19/18

- 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 DOWNGRADE 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.

NOT TO SCALE

Existing Dug well



ROAD NAME

TRENCH/DRAINFIELD DATA

| WIDTH | INLET | BOTTOM |
|---------------------------------------|-------|--------|
| 3' | 3' | 7.5' |
| NUMBER OF TRENCHES 1 | | |
| TOTAL LENGTH 75' | | |
| ABSORPTION AREA 225 sq ft + Side wall | | |
| DISTRIBUTION BOX LEVEL YES | | |
| DISTRIBUTION BOX BAFFLE YES | | |
| DISTRIBUTION BOX PORT YES | | |

SEPTIC TANK DATA

SEPTIC TANK I LEVEL YES
 MANUFACTURER Mayer Bros
 CAPACITY 1500 GAL
 SEAM LOC TOP
 TANK LID DEPTH 3'-2"
 BAFFLES YES
 BAFFLE FILTER NO
 MANHOLE LOC FRONT + REAR
 6" PORT LOC NONE
 WATERTIGHT TEST
 SLOTTED YES
 DATE ON LID DNI

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:

06/29/2017: Confirm adjacent church disconnected from Ex dug well. → Verified in field, well line to ex. church abandoned. Went over details of procedure of septic installation. Worked on-site for permit to allow. Set elevations on trench. Adjusted trench slightly off contour to avoid sharp bends. Trench will bend smoothly like a "U" shape. Tank to come from Mayer Bros. Call for open trench / tile msp. (Kand)

INSTALLATION:

08/11/2017 (AM) On site for digging of trench. Laser level was used for tank. Tank set. (PM) On site for filling of trench w/ #2 Stone. Had to dig stone @ end of trench to install obs pipe down through aggregate. Approved for backfill. Respect for d box, tank baffles, SHC (D)
 8/17/17 House connection made. Zack w/ K+T on site showed pictures of tank baffles.
 D-box backfilled but got measurements. Need old tank + dug well pumped + abandoned. (SC)
 9/5/17 Documentation of septic tank pumping + abandonment and graywater abandonment received. (SC)

FINAL INSPECTOR

Sarah Collins

DATE OF APPROVAL

9/5/17



HOWARD COUNTY HEALTH DEPARTMENT

60544

DATE 2/17/17

Received From

K&T Pumping Inc. PHONE # 443-250-6159 PS

For

Septic Permit - 3226
pooper here

CASH

CHECK

NO.

3141

Three hundred ninety five Dollars

\$ 396.00

Received By

[Signature]

Williams, Jeffrey

From: STEPHANIE PORTA <sporta@verizon.net>
Sent: Tuesday, August 08, 2017 10:03 AM
To: Williams, Jeffrey
Subject: Permit # 560544
Attachments: septic tank.jpeg

Hi Jeff,

We just spoke about the septic tank for Permit # 560544 for 3226 Boones Lane. As I stated in our conversation, we have the opportunity to use a 1500 gallon polyethylene 2 compartment tank instead of the 1500 Mayer Bros. concrete 2 compartment tank that is listed on our permit. We are asking that we be allowed to use the Norwesco tank as it will save us money and we are planning to development the property at 3226 Boones lane along with the surrounding 4 acres of property that we own in the next 10 years. The septic system will be a temporary situation as we will be connecting to city water and sewer when we develop.

Speaking with my husband he also stated that if we had to bring in the concrete tank it will be quite tricky as the new septic is close to the old tank and the location is on a hill.

We would very much appreciate if we could use the Norwesco tank to save money on this project.

Thank you for your consideration on this matter.

Sincerely,
Stephanie Porta
LT Ventures, LLC
410-465-4103

Troy Porta
443-250-6039 (please call with any questions)

8/9/17

T/C from Stephanie Porta explained Jeff was out, but we had a little time to review. Mentioned our concerns w/ the Norwesco tank (Mike's comments @ learning in AA) confirmed the installation was Friday, so given the short timeline, I wouldn't be able to canvass other Counties in time to decide. Given timeline to selling the property is now 10 years, I didn't want her facing the possibility of having to replace part way through - she will \$/up w/ her plumber

Fogle's Septic Clean, Inc.
 580 Obrecht Road
 Sykesville, MD 21784
 410-795-5670



WORK ORDER

| | |
|------|-----------|
| Date | 8/21/2017 |
|------|-----------|

JOB LOCATION

STEPHANIE PORTA
 3226 BOONES LANE
 ELLICOTT CITY, MD 21042

BILLING INFORMATION

STEPHANIE PORTA
 3226 BOONES LANE
 ELLICOTT CITY, MD 21042

| | |
|---------------------|--------------|
| Customer Phone | 443-996-2117 |
| Customer Alt. Phone | |

A finance charge of 1.5% will be charged monthly on unpaid balances. And any actual and reasonable collection fees may be added if delinquent. There is a \$25 fee for a returned check.

We are not responsible for your cleanout cap if we break it when we remove it. We are not responsible for any damages to your driveway.

| Description | Qty | Cost | Total | | | | | | | | | | | | | | | |
|---|-------------------|-----------------------|-------------------|-----------------------|----------------------|------------|----------|-----------------------|--------------|------------------|------------------|---------|-----------|--|--|----------------------|--|--|
| **** CALL AHEAD **** PUMP SEPTIC TANK - BACK OK TO USE DW C.O.D. | | 240.00 | 240.00 | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>TANK ACCESS</td> <td>TANK LEVEL</td> <td>TANK CONDITION</td> </tr> <tr> <td>Manhole: Y ___ N ___</td> <td>___ Normal</td> <td>___ Good</td> </tr> <tr> <td>Cleanout: Y ___ N ___</td> <td>___ Overfull</td> <td>___ Heavy Solids</td> </tr> <tr> <td>Tank Depth _____</td> <td>___ Low</td> <td>___ Roots</td> </tr> <tr> <td></td> <td></td> <td>___ Wipes ___ Other:</td> </tr> </table> | | TANK ACCESS | TANK LEVEL | TANK CONDITION | Manhole: Y ___ N ___ | ___ Normal | ___ Good | Cleanout: Y ___ N ___ | ___ Overfull | ___ Heavy Solids | Tank Depth _____ | ___ Low | ___ Roots | | | ___ Wipes ___ Other: | | |
| TANK ACCESS | TANK LEVEL | TANK CONDITION | | | | | | | | | | | | | | | | |
| Manhole: Y ___ N ___ | ___ Normal | ___ Good | | | | | | | | | | | | | | | | |
| Cleanout: Y ___ N ___ | ___ Overfull | ___ Heavy Solids | | | | | | | | | | | | | | | | |
| Tank Depth _____ | ___ Low | ___ Roots | | | | | | | | | | | | | | | | |
| | | ___ Wipes ___ Other: | | | | | | | | | | | | | | | | |
| TO ENSURE PROPER CLEANING, FOGLE'S SEPTIC RECOMMENDS PUMPING FROM THE MANHOLE AND NOT THE 6" CLEANOUT | | | | | | | | | | | | | | | | | | |
| CALL OFFICE TO SCHEDULE: ___ Snake inlet line ___ Other: ___ Snake outlet line | | | | | | | | | | | | | | | | | | |
| | | Total | \$240.00 | | | | | | | | | | | | | | | |

8-21-17

PL cd # 1025

Customer Signature: _____

3226 Boones Lane



Graywater pit abandonment



Graywater pit
abandonment





HOME LAND SEPTIC CONSULTING, LLC

p:443-995-5385 | info@mdwellandseptic.com | www.homelandseptic.com

| | | | |
|--|--|--|--|
| Date: 5/31/2016 Name of Evaluator: Jon Blevins Time: 8:00 Property Address: 3226 Boones Lane Ellicott City, MD 21042 Recent Weather Conditions: Normal | | Ordered By: Stephanie Chamberlain Buyers: Stephanie Chamberlain Homeowner Interview: The homeowner interview was sent prior to and conducted during the evaluation. | Occupied: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Length of Time Vacant: N/A # of People Living in Home: 1 # of People moving in: Unknown Property Age: 1955 System Age: 1955 Last Date of Cleaning: Unknown Recomm'd Pumping Freq: Unknown |
| Liquid level in tank is: <input type="checkbox"/> Above Normal <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Below Normal | | Bottom Solids Depth: -20 Inches | |
| Depth of tank: 16 Inches | | Type of Tank Access: 8 inch terracotta | |
| Maintenance appears: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor | | Depth of tank access: At Grade | |
| Effluent Filter present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Previous high liquid level: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Distance to well: -150 Feet | | Records Search: Howard County records were requested but no information was found. | |
| Were there any impermeable surfaces above the septic system (i.e. driveway)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| Type of Tank <input checked="" type="checkbox"/> Septic Tank (1 tank) <input type="checkbox"/> Aeration System <input type="checkbox"/> Other: _____ | | Tank Composition and Size <input checked="" type="checkbox"/> Block <input type="checkbox"/> Concrete <input type="checkbox"/> Plastic Tank Size: -1,000 gallons | |
| System Component Septic Tank | | Type of Absorption System <input checked="" type="checkbox"/> Leaching Field <input type="checkbox"/> Raised Mound <input type="checkbox"/> Drywell (Number of:) <input type="checkbox"/> Cesspool <input type="checkbox"/> Unknown: _____ | |
| Condition <input type="checkbox"/> Acceptable <input checked="" type="checkbox"/> Unacceptable <input type="checkbox"/> Needs Further Evaluation | | Comments The septic tank is composed of cinder block (see Picture Addendum). Cinder block tanks are known to leak and have concerns of structural integrity. The kitchen sink and laundry discharge into a gray water pit. Current code requires all septic tanks to be water tight and all waste water from the home, including water from the kitchen and laundry to discharge into the septic system. The septic tank needs to be replaced by a licensed septic contractor, after the permits are issued from the Health department. At this time the health department can advise if the gray water pit should be abandoned, having the kitchen sink and laundry plumbed to the septic system. | |
| Absorption System | | <input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Needs Further Evaluation | |
| | | The absorption system appears to be composed of at least 1 drainfield (seller stated there were 3). The drainfield was probed and found to be dry but with signs of biomat present. Due to the unknown age of the system and presence of biomat, it is recommended that buyers budget for future repairs. Approximately 150 gallons of water were introduced into the system with no back-up occurring in the septic tank. The system should be checked again after a new tank septic has been installed. | |



Date: 5/31/2016 Time: 8:00 Name of Evaluator: Jon Blevins
Property Address: 3226 Boones Lane Ellicott City, MD 21042



Picture 1: Septic tank in relation to the house.



Picture 2: Water entering the septic tank through the front line. The septic tank is composed of cinder blocks.

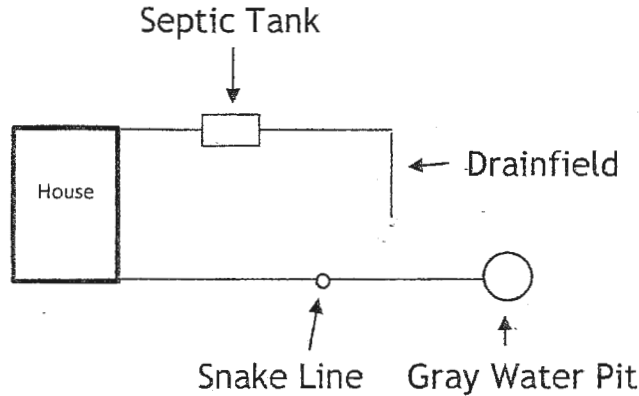


Picture 3: A cleanout on the gray water pit. Approximately 4 feet of liquid depth remains in the pit.



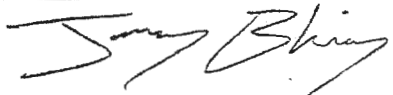
Sketch of System □ Well Pump Pit ⊗ Hand Dug Well

Front of the House



DISCLAIMERS

- This is a subjective and visual inspection only, the conclusions of which are based on the observed condition of the system components that could reasonably be accessed, and information known about the system at the time this report was completed. There may be unknown historical problems or unseen conditions which may compromise the conclusions stated in this report.
- A 'Satisfactory' evaluation does not mean the system will meet the local approving authority's criteria for determining compliance with state code: COMAR 26.04.02.02 D(4).
- The evaluation of the Sewage Disposal System as reported is based on the conditions observed on the day of the inspection.
- This report is neither a WARRANTY nor does it GUARANTEE continued acceptable functionality or performance of the Sewage Disposal Systems operations.
- If the house has been unoccupied the findings in this report may not be accurate, as limited or no use of the system may conceal or mask problems that may be revealed under typical sewage loading.
- If the general ground condition is excessively wet at the time of inspection, the findings in this report may not be accurate, as ground moisture may cover or hide septic effluent that may be on or near the ground surface.
- If the house is vacant or the conditions excessively wet during inspection, it is recommended that the system be reevaluated at a later date and/or alternate techniques be used to address those potential issues.
- Payment and/or use of this evaluation signify understanding and acceptances of the above clauses, as well as any noted faults with the system.

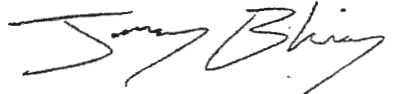
| | | |
|-----------------------------|--|----------------------|
| Representative's Signature: |  | Date: 5/31/2016 |
| Amount: \$410 (All testing) | Check Number: Credit Card | Date Paid: 5/31/2016 |



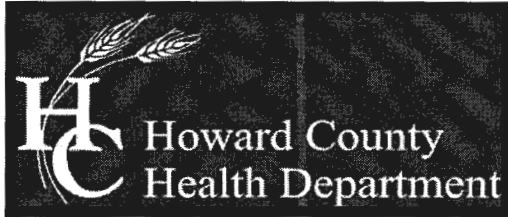
HOME LAND SEPTIC CONSULTING, LLC

p:443-995-5385 | info@mdwellandseptic.com | www.homelandseptic.com

| | | | | |
|----------------------------|------------|---|-------------------------------|-----------|
| Sampled for: | Potability | Property Address: | Sample Date: | 5/31/2016 |
| Additional Samples: | N/A | 3226 Boones Lane Ellicott City, MD 21042 | Sample Time: | 8:25 AM |
| Impurity: | | Result: | Pass/Fail Level | |
| Total Coliform Bacteria | | FAIL (Absent) | Present/Absent | |
| E.coli Bacteria | | FAIL (Absent) | Present/Absent | |
| Nitrates: | | Pass 4.9 mg/l | (Over 10.0 mg/l is failing) | |
| Turbidity: | | Pass <0.5 NTU | (Over 10.0 NTU is "high") | |
| pH: | | 5.61 | (6.5-8.5 is Neutral pH range) | |

| | | | | |
|---------------------------------|---------------------|--|---|---------------|
| Well Tag: | | Water conditioning: | Physical Well Condition: | |
| Well Tag #: | No Visible Well Tag | Currently, there appears to be an onsite Ultra Violet Light. | Well Casing: | Hand Dug Well |
| GPM at Drilling: | Unknown | | Conduit: | N/A |
| Well Depth: | Unknown | | Well Cap: | N/A |
| Static Water Level at Drilling: | Unknown | | Representatives Signature: | |
| Well was drilled on: | Unknown | |  | |

The Health Departments recommends that you test the water every 3-5 years.



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

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

MEMORANDUM

TO: Melissa and Zak Porta

FROM: Jeff Williams
Program Supervisor, Well & Septic Program

RE: 3226 Boones Lane

DATE: September 12, 2016

I have received your request to retain the existing well located on the property boundary between 3226 Boones Lane and 10380 Baltimore National Pike as part of the building permit application at 3226 Boones Lane. Our records indicate that the existing well is a hand dug or pit well and serves both the dwelling at 3226 Boones Lane and the building at 10380 Baltimore National Pike.

Prior to Health approval of a building permit for an addition such as yours, the Code of Maryland Regulations (COMAR) 26.04.02 states that there must be an adequate and safe water supply that meets the requirements of the well construction regulations, COMAR 26.04.04. The existing well's construction, location, and use are not in conformance with the requirements of COMAR 26.04.04 or COMAR 26.04.02. Because the property is located in the metropolitan district, a permit for a replacement well may not be issued. Therefore, the existing well must be properly sealed by a licensed well driller and the dwelling connected to the available public water supply prior to Health approval of the building permit.

Please also note that prior to Health approval of the building permit, the existing sewage disposal system must be evaluated as part of a perc test application to determine its adequacy. If the existing system is not adequate, a replacement system must be installed prior to Health approval of a building permit. Under the current regulations, a replacement system must include a Best Available Technology unit for Nitrogen reduction.

You may contact me at 410-313-4261 or jewilliams@howardcountymd.gov with any questions.



UTILITIES UNLIMITED, INC.

1771 Underwood Rd.

Sykesville, MD 21784

410-442-1755

FAX: 410-442-1838

www.utilitiesunlimitedinc.com

September 1, 2016

Mrs. Stephanie Porta
10382 Baltimore National Pike
Ellicott City, MD 21042

Re: 3226 Boones Lane

Page 1 of 2

Dear Mrs. Porta:

The following is our proposal to install Public & Private water service to the above reference property, in accordance with our recent meet at the site; and Howard County Standard Specifications and Details for Construction. Our Scope of Work and Pricing are as follows:

PUBLIC WATER

| | |
|--|--------------------|
| Mobilization | 1 LS |
| Traffic Control | 1 LS |
| Tap and connect to existing 8" watermain | 1 EA |
| 1 ½" Copper Service Pipe | 30 LF +/- |
| Single 1" Meter Setting & Vault | 1 EA |
| Permanent Asphalt Road Patch | 1 LS |
| TOTAL PRICE: | \$23,660.00 |

PRIVATE WATER

| | |
|--|-------------------|
| 1 ½" Poly Service Pipe | 500 LF +/- |
| Crusher Run Stone for Driveway Restoration | 1 LS |
| TOTAL PRICE: | \$9,250.00 |

TOTAL PROPOSAL PRICE: \$32,910.00

The following items are not included in the proposal price: Permit or inspection fees, Bond, Stakeout, Rock blasting, Rock excavation, Select backfill, Soils or compaction testing, Additional costs due to engineering errors, Relocation of existing utilities, Bracing of utility poles, Responsibility for damage to our work caused by Others, Responsibility for damage to unmarked private utilities, Asbuilt drawings, Additional mobilizations.

September 1, 2016
3226 Boones Lane
Utilities Unlimited, Inc. Proposal Page 2 of 2

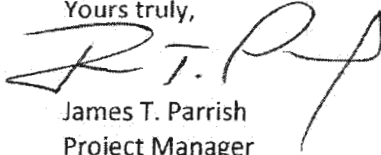
Our work includes a one year warranty on workmanship and materials. The warranty period begins upon completion of our work.

A deposit of 50% is required prior to our mobilization. The balance is payable in full upon completion of the work. A 2% per month service charge will be assessed to past due accounts, and reasonable attorney fees if referred for collection.

Scheduling for this work is subject to our crew availability. This proposal may be withdrawn if not accepted within 15 days of the proposal date.

Thank you for the opportunity to bid this project. Please do not hesitate to call with any questions.

Yours truly,



James T. Parrish
Project Manager

Accepted By

Date

Title

Jeff Williams
Bureau of Environmental Health
8930 Stanford Blvd
Columbia, MD 21045

August 16, 2015

Dear Mr. Williams,

We are writing in reference to the attached building permit review letter for 3226 Boones Lane. We spoke with Mr. Oswald recently about the hardship we would face in complying with the requirements stated in the letter, and he referred us to you to request consideration of an alternative to these requirements.

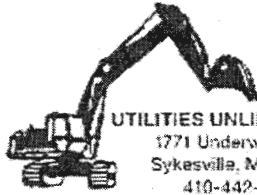
We recently purchased a 2-bedroom/1-bathroom home at 3226 Boones Lane with the long-term plan of development of this and multiple neighboring properties. While the development is in process, we are going to live in the existing home but require the addition of a master bedroom/bathroom. Our architect advised that due to the well and septic, we should not add a third bedroom but rather convert one of the existing smaller bedrooms to an office, which we agreed to as we only have one child. Our budget for the entire project is \$50,000, however with the nearest public water connection being over 500ft from the house, the cost of replacing the septic system and connecting to public water would leave us with no money for the actual addition project. We have enclosed the project proposal for public water connection, which does not include the cost of the septic system replacement. We are unable to borrow any additional funds to cover these costs, and are now left with a home that cannot meet our needs.

We recognize and appreciate the intent of the requirements for properties served by well and septic, however knowing that this home will be demolished within 5 years, we are hopeful that the existing well and septic system may be able to adequately serve the property for that short time. We understand that the county has no documentation of the existing system and would willingly assist with any testing and documentation necessary.

We appreciate your consideration of our request. We are more than happy to meet with you to discuss this, or feel free to contact us via phone or email.

Sincerely,

Melissa & Zak Porta
410-206-6607
Melissalynnh@gmail.com



UTILITIES UNLIMITED, INC.
1771 Underwood Rd.
Sykesville, MD 21784
410-442-1755
FAX: 410-442-1838
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September 1, 2016

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10382 Baltimore National Pike
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Re: 3226 Boones Lane

Page 1 of 2

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PUBLIC WATER

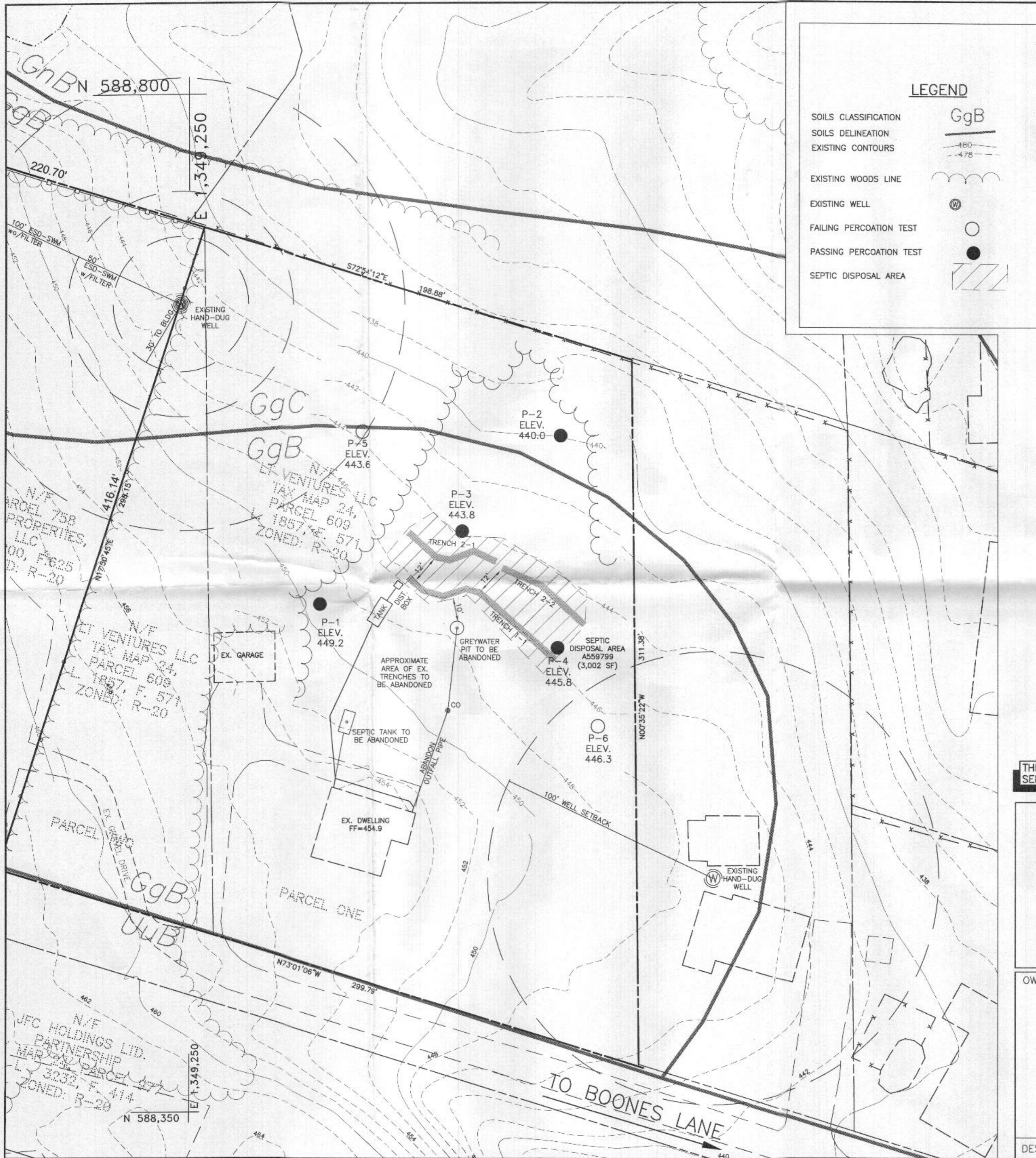
| | |
|--|--------------------|
| Mobilization | 1 LS |
| Traffic Control | 1 LS |
| Tap and connect to existing 8" watermain | 1 EA |
| 1 1/2" Copper Service Pipe | 30 LF +/- |
| Single 1" Meter Setting & Vault | 1 EA |
| Permanent Asphalt Road Patch | 1 LS |
| TOTAL PRICE: | \$23,660.00 |

PRIVATE WATER

| | |
|--|-------------------|
| 1 1/2" Poly Service Pipe | 500 LF +/- |
| Crusher Run Stone for Driveway Restoration | 1 LS |
| TOTAL PRICE: | \$9,250.00 |

TOTAL PROPOSAL PRICE: \$32,910.00

The following items are not included in the proposal price: Permit or inspection fees, Bond, Stakeout, Rock blasting, Rock excavation, Select backfill, Soils or compaction testing, Additional costs due to engineering errors, Relocation of existing utilities, bracing of utility poles, Responsibility for damage to our work caused by Others, Responsibility for damage to unmarked private utilities, Asbuilt drawings, Additional mobilizations.



LEGEND

SOILS CLASSIFICATION GgB

SOILS DELINEATION

EXISTING CONTOURS

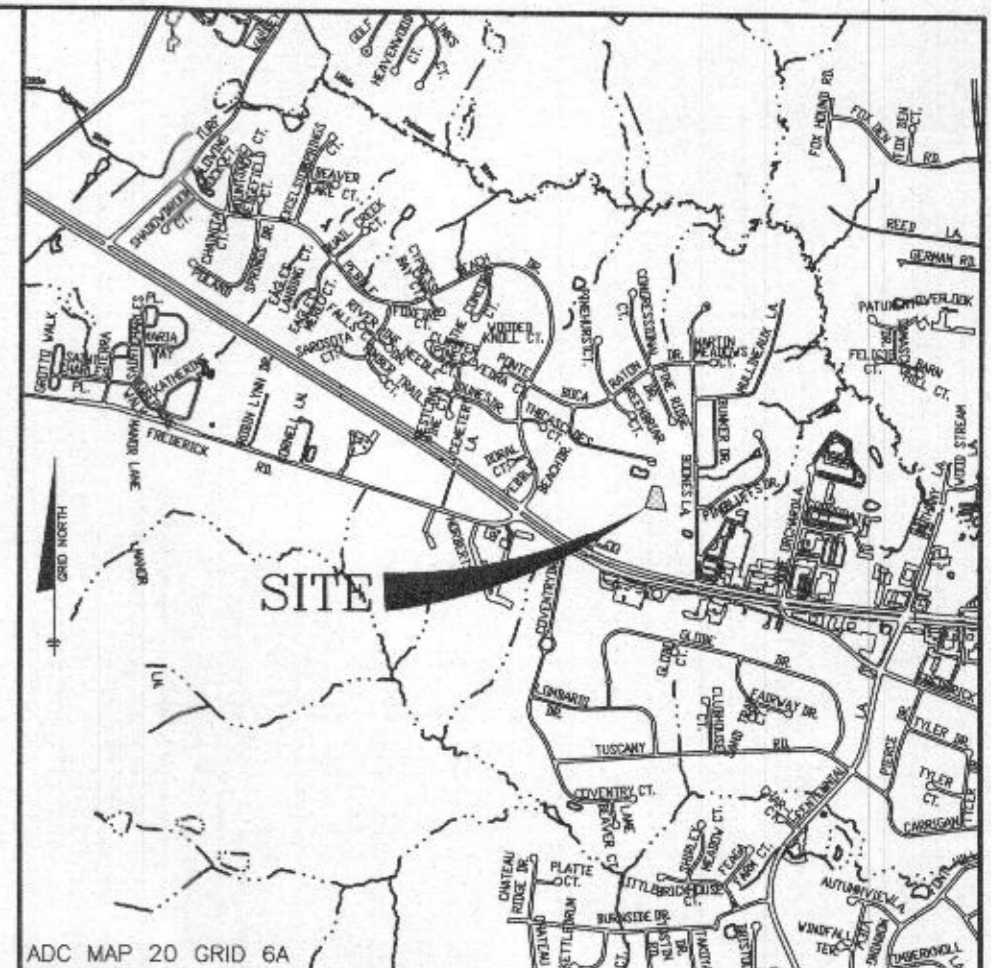
EXISTING WOODS LINE

EXISTING WELL

FAILING PERCOATION TEST

PASSING PERCOATION TEST

SEPTIC DISPOSAL AREA



- GENERAL 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 WILL REQUIRE A TAG NUMBER AND HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC., 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.
 6. SEPTIC TANK IS TO BE 1,500 GALLONS AND TWO COMPARTMENTS.
 7. TOPOGRAPHY SHOWN ON THIS LOT IS SHOWN PER FIELD LOCATIONS BY BENCHMARK ENGINEERING, INC., ON OR ABOUT DECEMBER, 2016. TOPOGRAPHY OUTSIDE OF THE SEPTIC DISPOSAL AREA IS FROM HOWARD COUNTY GIS INFORMATION.
 8. PRIOR TO ISSUANCE OF A BUILDING PERMIT THE ADJOINING CHURCH ON PARCEL 758 MUST BE ATTACHED TO PUBLIC WATER, THE SEPTIC ON THIS LOT MUST BE INSTALLED AND THE OLD SEPTIC COMPONENTS ABANDONED.
 9. PERCOLATION TEST FEE RECEIPT NUMBER, REFERENCED IN THE APPROVING AUTHORITY CORRESPONDENCE, IS A559799.
 10. THIS PARCEL WILL REQUIRE AN INITIAL SYSTEM AND A REPLACEMENT SYSTEM WITHIN THE LIMITS OF THIS SEPTIC DISPOSAL AREA FOR A THREE BEDROOM HOUSE (450 GALLONS PER DAY). THE DESIGN FOR THE INITIAL SYSTEM INCLUDES 80 LF OF 3.0' WIDE TRENCH DUE TO THE APPLICATION RATE OF 0.8 AND THE EFFECTIVE AREA DEPTH OF 4.5' (EFFECTIVE DEPTH FROM 3.0' TO 7.5'). THE DESIGN FOR THE FIRST REPLACEMENT SYSTEM INCLUDES 90 LF OF 3.0' WIDE TRENCH DUE TO THE APPLICATION RATE OF 0.6 AND THE EFFECTIVE AREA DEPTH OF 5.0' (EFFECTIVE DEPTH FROM 3.0' TO 8.0').

Approved Septic System Plan
 Howard County Health Department
 Signature: *John Oswald* Date: 12/17/17

THIS PLAN IS FOR SEPTIC DESIGN ONLY

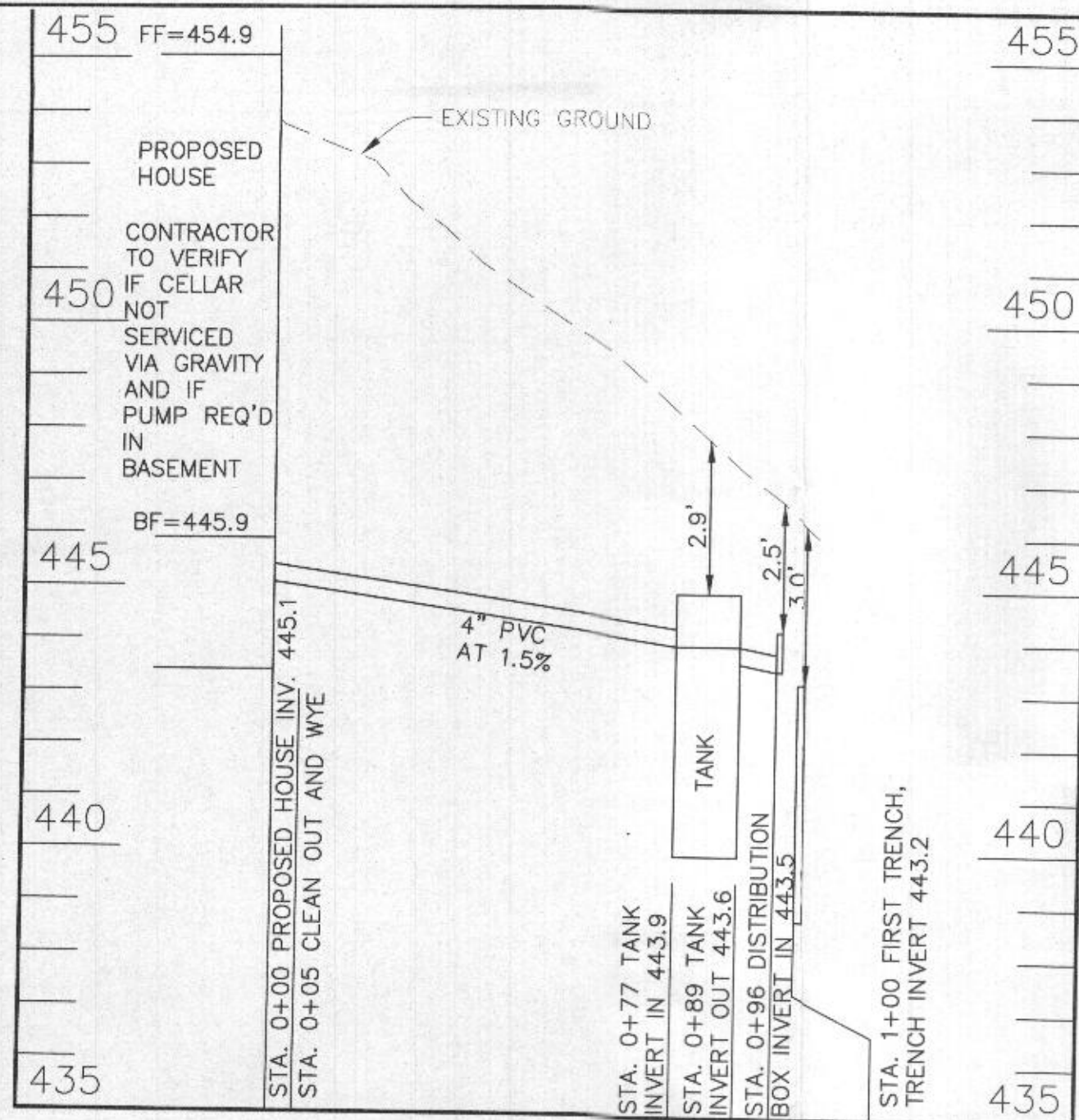
BENCHMARK ENGINEERS, LAND SURVEYORS, PLANNERS

ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 FAX: 410-465-6644
 BEI@BEI-CIVLENGINEERING.COM

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. 45577, Expiration Date: 06-08-2018.

| | |
|---|-------------------------------------|
| OWNER/BUILDER: LT VENTURES, LLC 10382 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21042 PHONE: 410-465-4103 | PROJECT: 3226 BOONES LANE |
| LOCATION: 3226 BOONES LANE ELLICOTT CITY, MD 21042 TAX MAP No. 24 - BLOCK No. 01 - PARCEL No. 609 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND TAX ID NUMBER 02-216345 | TITLE: SEPTIC PERMIT PLAN |
| HOUSE TYPE: REMODEL EXISTING HOUSE | DATE: DECEMBER, 2016 |
| DESIGN: JMC | DRAFT: JMC |
| SCALE: 1" = 30' | PROJECT NO. 2617 DRAWING 1 OF 2 |



| INITIAL SYSTEM | | |
|----------------------------------|-------|--------|
| Number of Bedrooms | 3 | |
| Application Rate | 0.8 | gpd/sf |
| Effective Area Beginning Depth | 3 | ft |
| Bottom Max Depth | 7.5 | ft |
| Design Flow | 450 | gpd |
| Drainage Field square footage | 562.5 | sf |
| Sidewall reduction credit | 0.38 | |
| Trench width | 3 | |
| Effective Area Depth | 4.5 | |
| Linear Length of trench Required | 72 | lf |

| 1st REPLACEMENT SYSTEM | | |
|----------------------------------|------|--------|
| Number of Bedrooms | 3 | |
| Application Rate | 0.6 | gpd/sf |
| Effective Area Beginning Depth | 3 | ft |
| Bottom Max Depth | 8 | ft |
| Design Flow | 450 | gpd |
| Drainage Field square footage | 750 | sf |
| Sidewall reduction credit | 0.36 | |
| Trench width | 3 | |
| Effective Area Depth | 5 | |
| Linear Length of trench Required | 89 | lf |

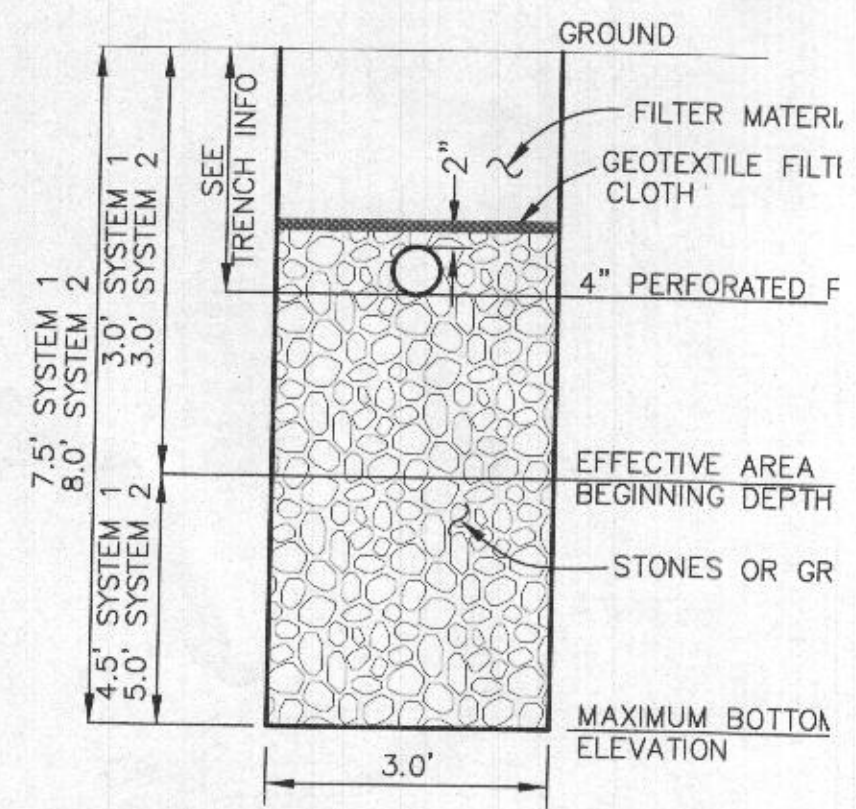
SEWER PROFILE

SCALE: VERTICAL 1"=3'
HORIZONTAL 1"=30'

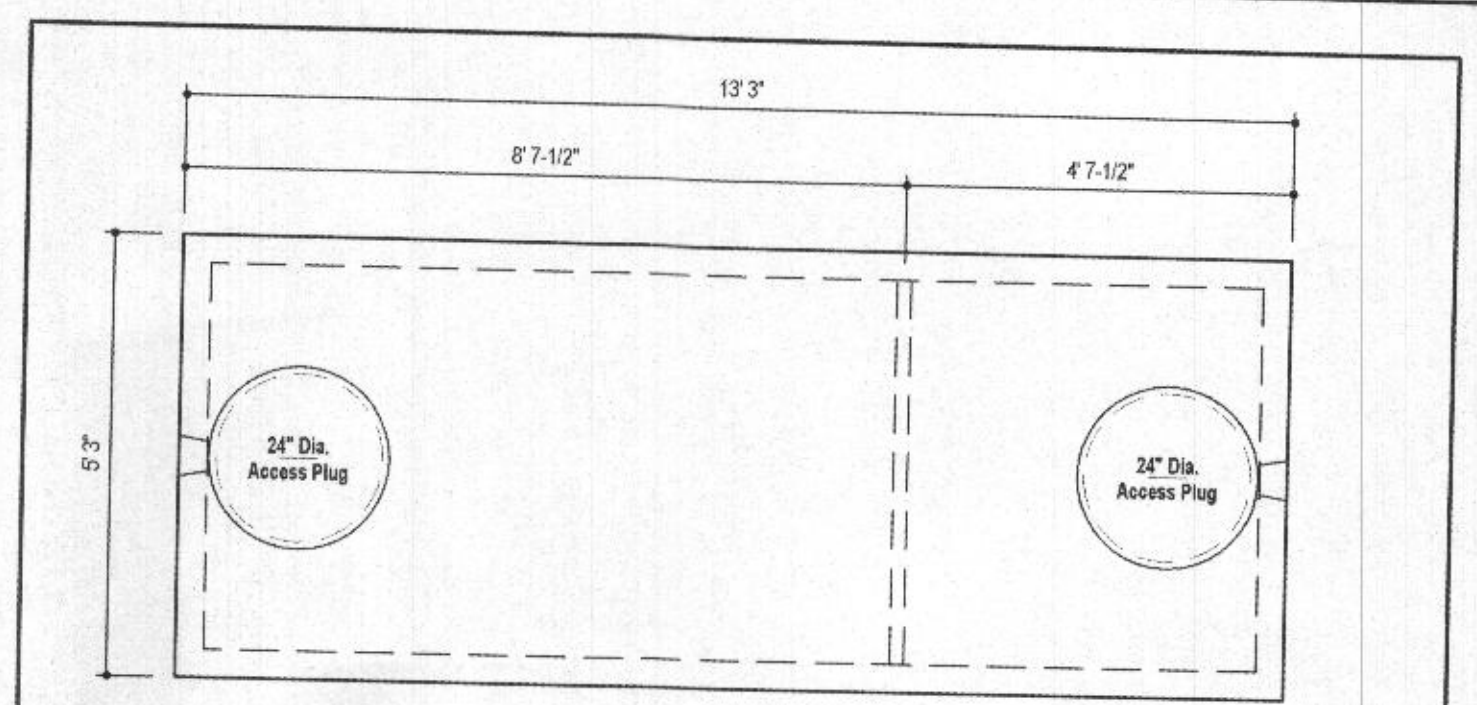
TRENCH INFORMATION

| TRENCH 1-1 | | TRENCH 2-1 | |
|-------------------|-------|-------------------|-------|
| TRENCH LENGTH | 80 LF | TRENCH LENGTH | 45 LF |
| GROUND ELEVATION | 446.2 | GROUND ELEVATION | 444.7 |
| INVERT ELEVATION | 443.2 | INVERT ELEVATION | 441.7 |
| MAX. BOTTOM ELEV. | 438.7 | MAX. BOTTOM ELEV. | 436.7 |

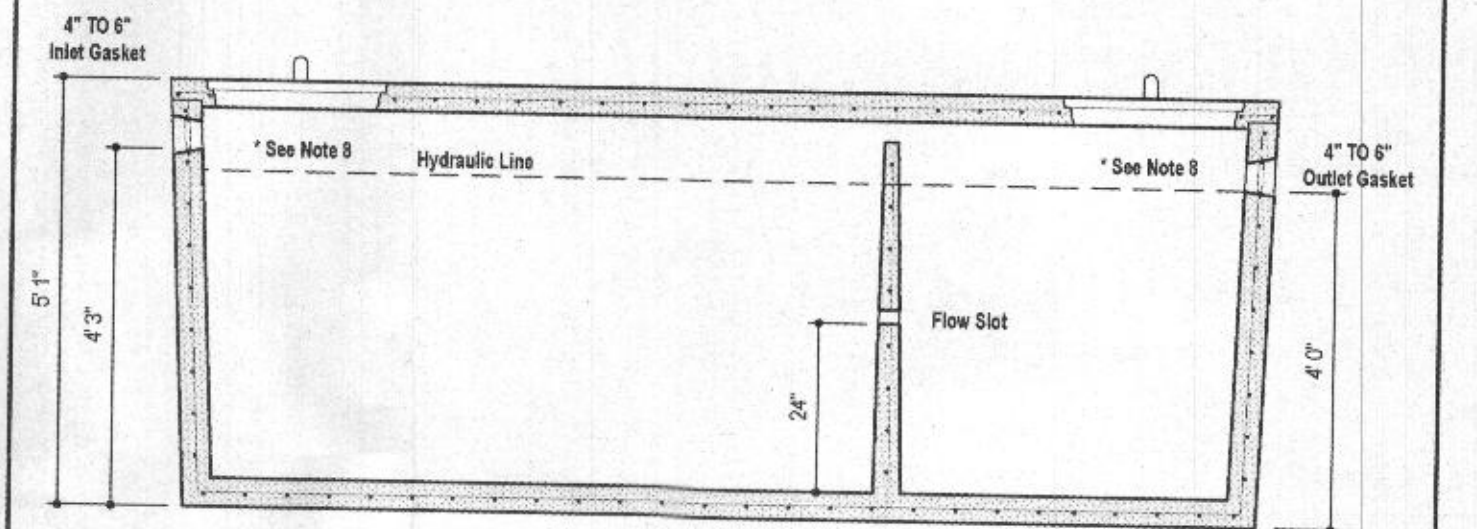
| TRENCH 2-2 | |
|-------------------|-------|
| TRENCH LENGTH | 45 LF |
| GROUND ELEVATION | 444.8 |
| INVERT ELEVATION | 441.8 |
| MAX. BOTTOM ELEV. | 436.8 |



TYPICAL TRENCH DETAIL
NOT TO SCALE



PLAN VIEW



SECTION A-A

DESIGN DATA & GENERAL NOTES

- [1] Concrete strength Fc=4000 p.s.i. @ 28 days. Density = 160 pcf.
- [2] Cement - Portland Type III per ASTM C 150-92.
- [3] Admixtures & plasticizers per ASTM C 230-96 & C 494-82.
- [4] Reinforcing per ASTM A 195. Min. 1-1/2" cover.
- [5] Top slab sealed with butyl rope mastic.
- [6] 4" wall, base, & top thickness.
- [7] Max 3-1/2" of cover
- [8] Depending on use of tank, Inlet & Outlet baffles may be required by code.

WEIGHT = 16,750 lbs.

MB
Mayer Bros., Inc.
6264 Race Road
Elkridge, Maryland 21075
Tel. 410.796.1434
Fax. 410.796.1438
www.mayerbrosprecast.com

**1,500 GALLON TANK (Non-Traffic)
2-Compartment**
Stock Item
Dwg. No. 1500-2C No Scale Aug. 11, 2008

SEE MANUFACTURER SPECIFICATIONS FOR DETAILS.
WWW.MAYERPRECAST.COM

BENCHMARK ENGINEERING, INC.
ENGINEERS • LAND SURVEYORS • PLANNERS
8480 BALTIMORE NATIONAL PIKE • SUITE 315
ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 • FAX: 410-465-6644
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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. 45577, Expiration Date: 06-08-2018.

12/22/16

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