



HOWARD COUNTY HEALTH DEPARTMENT

54582

DATE
8/15/14

A-5

Received From

Scott & Karen Pitsley

PHONE #

(301) 770-2100

For

PARC Testing Appt - 7012 Browns Border Road
Highland, MD

CASH

CHECK

NO.

1396

Five hundred six

00/100

Dollars

\$

500.00

Received By

Marion Curry



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 59152

AGENCY REVIEW: _____

DATE 8-15-14

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 4 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) SCOTT & KAREN PITSLEY

DAYTIME PHONE 301-776-2666 CELL 301-788-3129 FAX 301-776-2886

MAILING ADDRESS 7612 Browns Bridge Rd Highland MD 20717
STREET CITY/TOWN STATE ZIP

APPLICANT SAME

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME SAME LOT NO. _____

PROPERTY ADDRESS 7612 Browns Bridge Rd Highland MD 20717
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 0040 GRID 0018 PARCEL(S) 0158 PROPOSED LOT SIZE 1.3430 AC

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



Office of the Health Officer

8930 Stanford Blvd., Columbia, MD 21045
Main: 410-313-6300 | Fax: 410-313-6303
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

TO: Scott and Karen Pitsley
7612 Browns Bridge Road
Highland, Maryland 20777
Via E-mail: segrant@erols.com

FROM: Dana Bernard, REHS/L.E.H.S.
Well and Septic Program

RE: 7612 Brown Bridge Road
Percolation Certification Testing

DATE: October 20, 2014

Percolation testing was conducted on the referenced property on October 7, 2014. The purpose for conducting these percolation tests was for an anticipated establishment of a sewage disposal area.

A total of six (6) test holes evaluated and five (5) were found to be satisfactory with moderate percolation rates. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall are indicated, and may be confirmed at the time of installation for the five (5) percolation test holes which were satisfactory. However, whole that failed cannot be used in the establishment of the design of the septic reserve area. Field data collected is shown on the Percolation Test Worksheet enclosed with this letter.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Areas that may be included in a septic reserve are represented by test locations having satisfactory soil conditions. The area of the septic reserve must be at least 10,000 square feet, though Howard County Code [3.805.A.2.X] requires that the area be large enough to accommodate an initial drain field and two repair drain fields for the planned residence.

The next step in this process is to submit a Percolation Certification Plan to confirm the design of the septic reserve area. Your plan must contain all of the surrounding properties including the septic and well areas. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at the above address or by telephone at (410) 313-2775.

Sincerely,

A handwritten signature in cursive script that reads 'Dana Bernard'.

Dana Bernard, REHS/RS
Environmental Specialist II

Phone (410) 313-2775

Fax (410) 313-2648

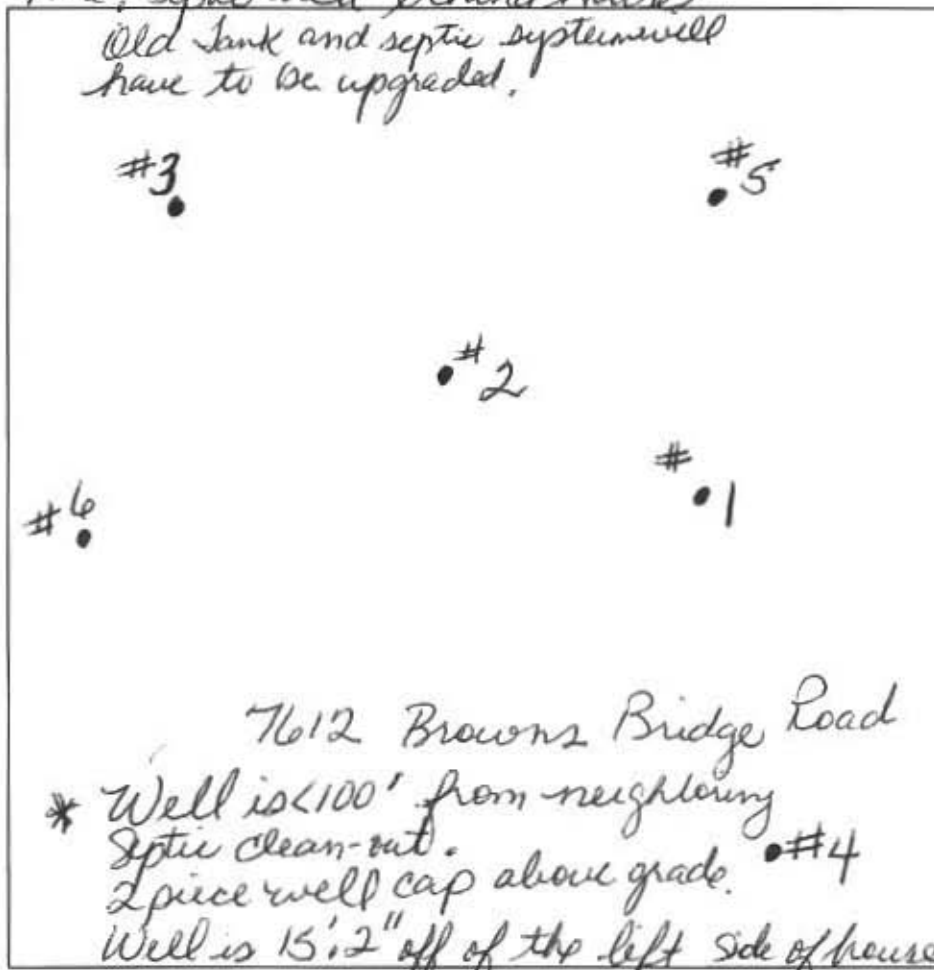
E-mail: DBernard@howardcountymd.gov

Note: Septic area^{is} behind House
 Old tank and septic system will
 have to be upgraded.

#1
 Red Brown
 Sh
 5-10%
 R4
 7'
 Red Brown
 yellow
 Sh
 Platy @ 10'
 Grey Red
 Black
 yellow
 10-20% R4 @ 12'
 14'

#2
 Red Brown
 Sh
 5-10%
 R4
 14'
 Red Brown
 yellow
 Dense
 Sh
 ↓
 10-20%
 R4 @ 10'
 14'

#3
 Red Brown
 yellow
 Sh
 Dense
 @ 3' 6"
 6.5'
 Red Brown
 yellow
 Sh
 5-10%
 R4 (Platy)
 @ 10'
 Shist from
 11-14' LS
 H₂O seeping 14'
 in @ 14'



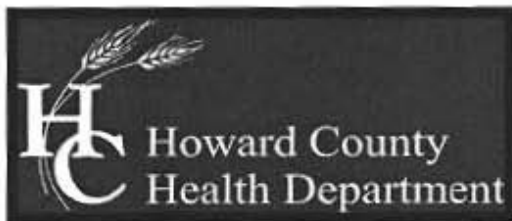
#4
 Red Brown
 yellow
 Sh
 10-20%
 R4
 Dense
 6.5'
 Red Brown
 yellow
 Sh
 Red yellow
 grey platy
 Shist
 H₂O seeping @ 10'
 12'

#5
 Red Brown
 Sh
 Dense
 6.5'
 Red Brown
 yellow
 Sh
 ↓
 10-30%
 R4
 12'

#6
 Red Brown
 yellow
 Sh
 6.5'
 Red Brown
 yellow
 Sh
 10-20%
 R4
 10'
 Red Brown
 yellow
 tan
 loamy
 sand
 14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
10-7-14	1	7/14	12:34	12:36	12:48	12min	P
10-7-14	2	7/14	11:07	11:09	11:18	8min	P
10-7-14	3	7/14	10:48	10:55	11:05	10min	P
10-7-14	4	6.5/12	11:43	Stopped @ 12:19			F
10-7-14	5	7/12	11:51	11:52	11:55	3min	P
10-7-14	6	6.5/14	1:10	1:16	1:16	10min	P

REMARKS Good Soil @ 7' deep trenches will be installed. Owner will
 SANITARIAN DB + HO BACKHOE _____ OTHERS _____
 TEST HOLES USED IN SDA 5 AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH 7' MAX. BOT DEPTH 8' EFFECTIVE SW _____



Bureau of Environmental Health

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

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

MEMORANDUM

TO: Scott and Karen Pitsley
7612 Browns Bridge Road
Highland, Maryland 20777
Via E-mail: karen@transformingarchitecture.com

FROM: Dana Bernard, REHS/L.E.H.S.
Well and Septic Program

RE: 7612 Brown Bridge Road
Percolation Certification Plan

DATE: December 1, 2014

The following comments apply to the plan prepared by Transforming Architecture. Applicant is advised to revise and resubmit.

Percolation Certification Plan

- Adjust SDA boundaries so that it runs at least 5 feet from the property line and can go up to 10 feet from the garage. Run the back boundary on a line between holes 1 and 6.
- Adjust perc hole symbols so that there is one type for passing holes and one type for failing. Hole 4 was failing. Adjust legend to match new symbols.
- Remove extra trench proposed on existing system and label existing system as to be abandoned. Show two future systems on either side of the area of existing trenches. Keep the new trenches 10' from the existing trenches and 10' from each other edge-to-edge. The new SDA boundaries described above should allow room to fit 3 x 74' trenches (3' wide) on either side. Show new trenches running along contour.
- Do not show the location of the new BAT and don't include BAT notes and details.
- Adjust trench calculations to have 1.5 feet of sidewall (71% reduction) and equaling 222 linear feet of trench. (3 X 74).
- Add the following state to the General Notes:

MDE statement for lots created *before* March 1972:

"This area designates a private sewage area as required by the Maryland State

Department of the Environment for individual sewage disposal. For lots created prior to March of 1972 it provides at least enough area to accommodate an initial and two replacement septic systems as required by the Howard County Health Department. Improvements of any nature in this area are restricted until public sewerage is available. This area 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."

- Add purpose statement: to establish a sewage disposal area in support of a proposed building addition for a 5 bedroom house.
- Add a note stating the new system will be installed and existing tank will be abandoned prior to Health approval of the building permit.

BAT Plan

- Include all revisions from percolation certification plan.
- Show the locations of all BAT components on the site plan and move BAT unit out of 100' well setback. The BAT should be able to fit near the trench locations of the system to the right of the existing trenches and still get gravity flow to those trenches.
- Adjust sewer profile to match new tank location.
- Illustrate the location of the initial and replacement absorption system with elevations for ground surface, trench bottom, and pipe invert for each trench.

OWNER: MR. & MRS. SCOTT PITSLEY
7612 BROWNS BRIDGE RD
HIGHLAND, MD 20777

PROPERTY KNOWN AS LOT 2
GREENVILLE FARMS
PLAT BOOK RHM 5.F.26
& PART LOT 44 SECTION 3
GREENWOOD FARMS
PLAT BOOK RHM 5.F.88
5TH ELECTION DISTRICT
HOWARD COUNTY, MD

LEGEND

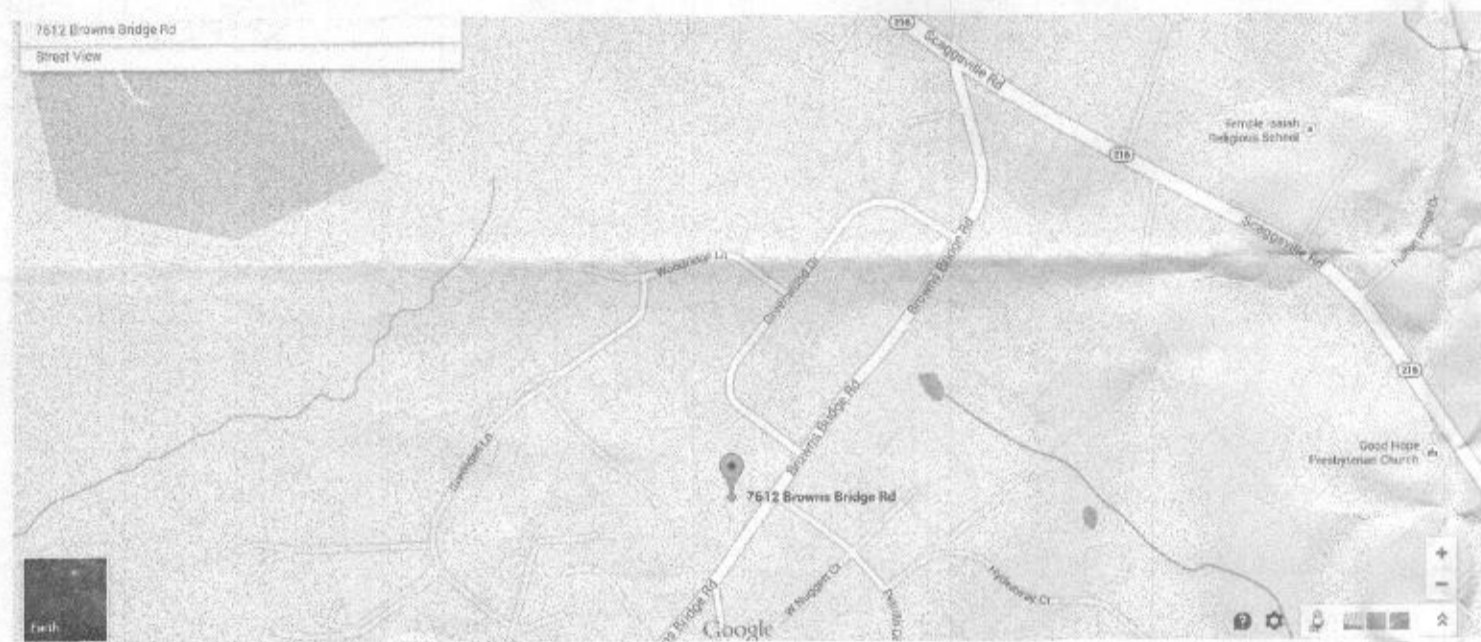
- PASSING PERC TEST PIT
- ✕ FAILED TEST PIT LOCATION
- - - - - CURRENT (W/NEW) SYSTEM DESIGN
- FUTURE SYSTEM DESIGNS
- ▨ SEPTIC EASEMENT
- WELL

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

(SIGNATURE) (DATE)

Approved for private water and private sewer systems. Howard County Health Department

(SIGNATURE) 12/10/14 (DATE)



NOTE: STATEMENT FOR LOTS CREATED BEFORE MARCH OF 1972:

"This area designates a private sewage area as required by Maryland State Department of the Environment for individual sewage disposal. For lots created prior to March of 1972 it provides at least enough area to accommodate an initial and two replacement septic systems as required by the Howard County Health Department. Improvements of any nature in this area are restricted until public sewerage is available. This area 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."

This area designates a private sewage disposal area as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this area are restricted. This sewage disposal area shall become null and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to the private sewage easement. Recordation of a revised sewage easement shall not be necessary.

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

The topography of this plat is taken from Howard County GIS and is verified accurately represent the relative changes on the subject property.

All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic systems and wells have been shown.

NOTES

1. All existing wells on the subject property and within 100 feet of subject property boundaries are represented to the best of my knowledge and belief.
2. The existing well on the subject property has been field located and is accurately shown.
3. Topography on this plat is from HOWARD COUNTY CONTOURS (2004) and is verified to accurately represent the relative elevation changes on and near the subject property.
4. The lot shown hereon complies with the minimum ownership width and lot area as required by the Maryland Department of Environment.
5. Any changes to a private sewage easement shall require a revised percolation certification plan.

6. The purpose for this Percolation Certification Plan is to create the existing sewage easement to accommodate EXISTING CONDITIONS ON THE SUBJECT PROPERTY.

PURPOSE STATEMENT: TO ESTABLISH A SEWAGE DISPOSAL AREA IN SUPPORT OF A PROPOSED BUILDING ADDITION FOR A 5 BEDROOM HOUSE

SCOPE OF WORK - ADDITION OVER EXISTING HOUSE - NO ADDITIONAL S.F. TO FOOTPRINT OF HOUSE

NEW SYSTEM WILL BE INSTALLED AND EXISTING TANK WILL BE ABANDONED PRIOR TO HEALTH DEPT. APPROVAL OF THE BUILDING PERMIT

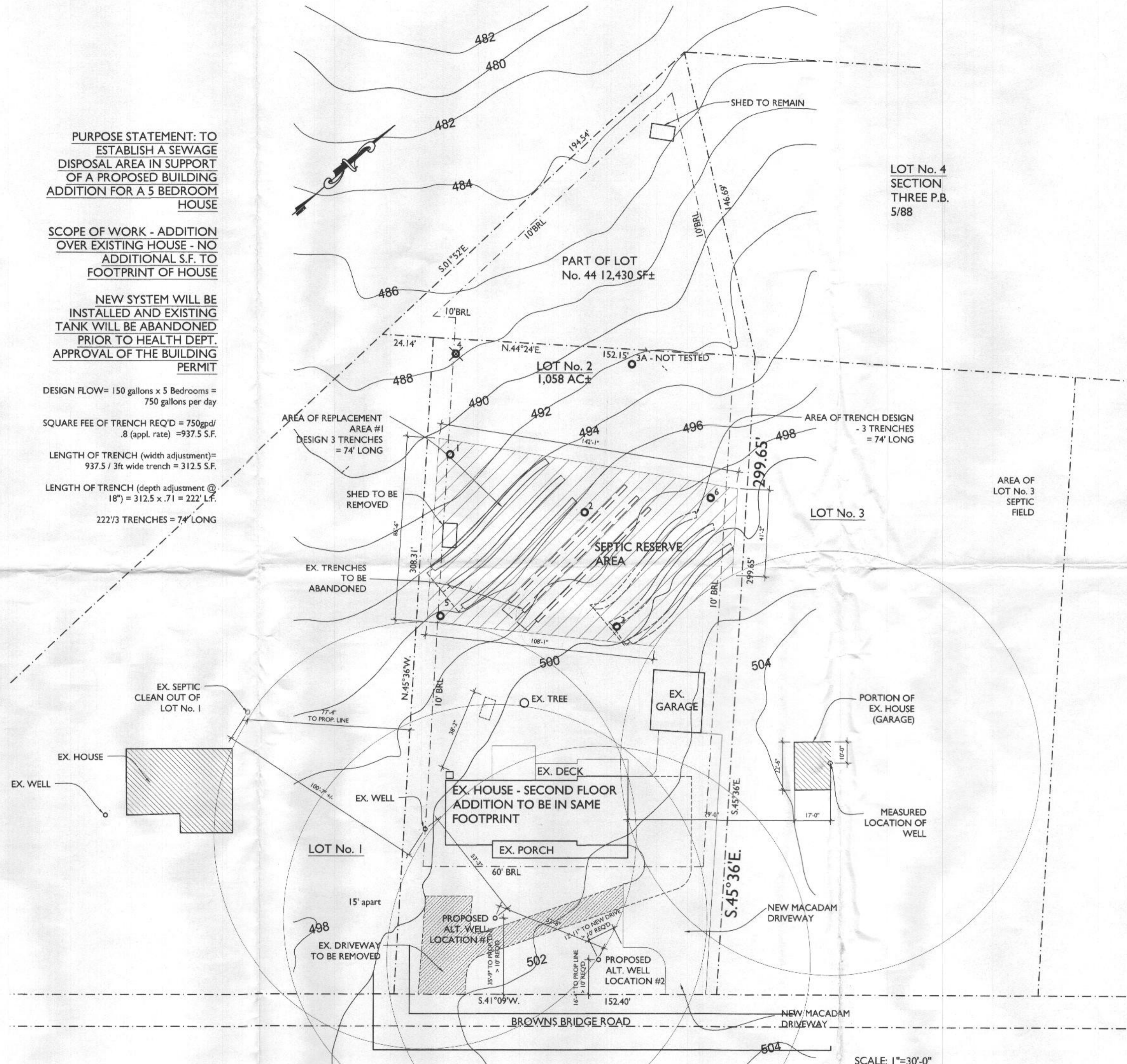
DESIGN FLOW= 150 gallons x 5 Bedrooms = 750 gallons per day

SQUARE FEET OF TRENCH REQ'D = 750gpd / .8 (appl. rate) = 937.5 S.F.

LENGTH OF TRENCH (width adjustment) = 937.5 / 3ft wide trench = 312.5 S.F.

LENGTH OF TRENCH (depth adjustment @ 18") = 312.5 x .71 = 222' L.F.

222 2/3 TRENCHES = 74' LONG



PERC CERT PLAN
SCALE: 1" = 30'-0"



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Highland, MD 20777
301-776-2666
301-776-2886 fax
1-877-828-7267
info@TransformingArchitecture.com
www.TransformingArchitecture.com



I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 13662, EXPIRATION 10-22-2015.

NOTE: THESE DRAWINGS ARE THE PROPERTY OF TRANSFORMING ARCHITECTURE AND, AS SUCH, MAY NOT BE RE-USED OR REPRODUCED, EITHER WHOLLY OR IN PART, WITHOUT PRIOR WRITTEN CONSENT OF TRANSFORMING ARCHITECTURE.

PROJECT PHASE
PERMIT

PROJECT TITLE
THE PITSLEY RESIDENCE

7612 Browns Bridge Road
Highland, MD 20777

REVISIONS

SYMBOL	DATE	ISSUED FOR

PROJECT NUMBER 14-111
DATE 12/09/14
SCALE AS NOTED

DRAWING TITLE
PERC CERT PLAN

SHEET NUMBER
A-1

OWNER: MR. & MRS. SCOTT PITSLY
7612 BROWNS BRIDGE RD
HIGHLAND, MD 20777

PROPERTY KNOWN AS LOT 2
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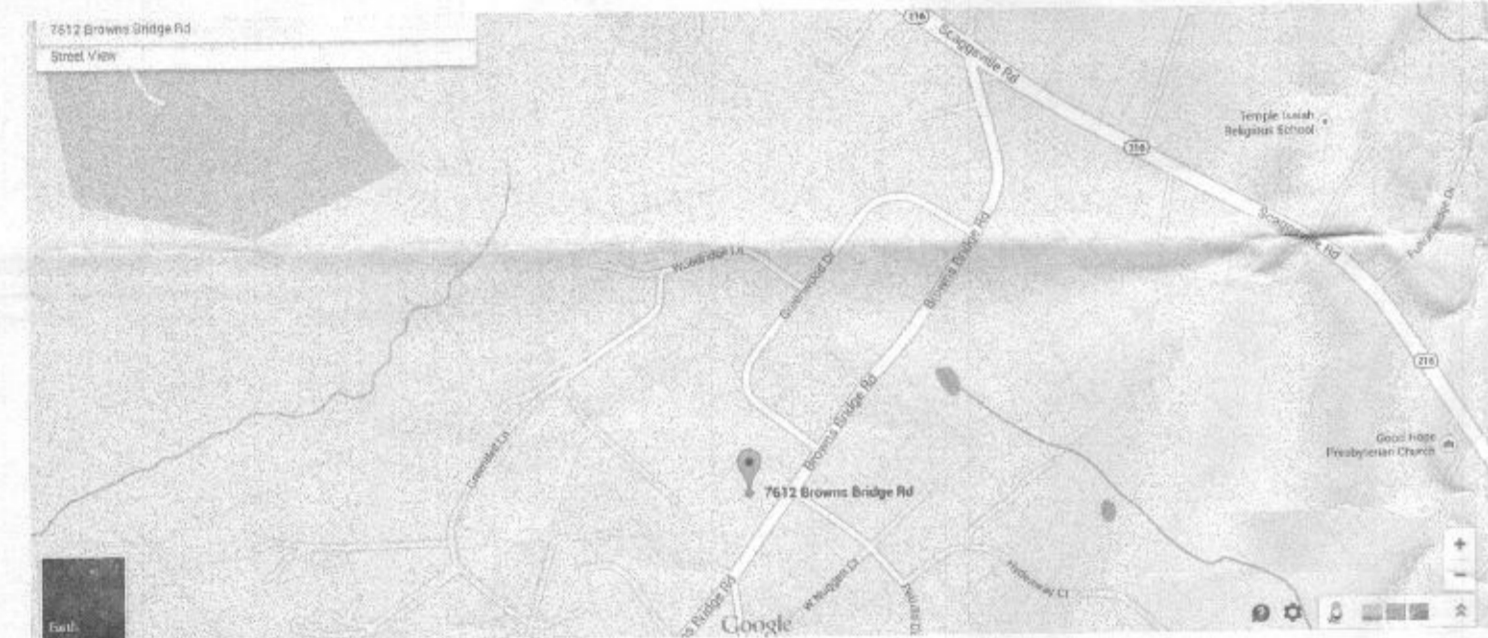
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(SIGNATURE) 12/10/14 (DATE)



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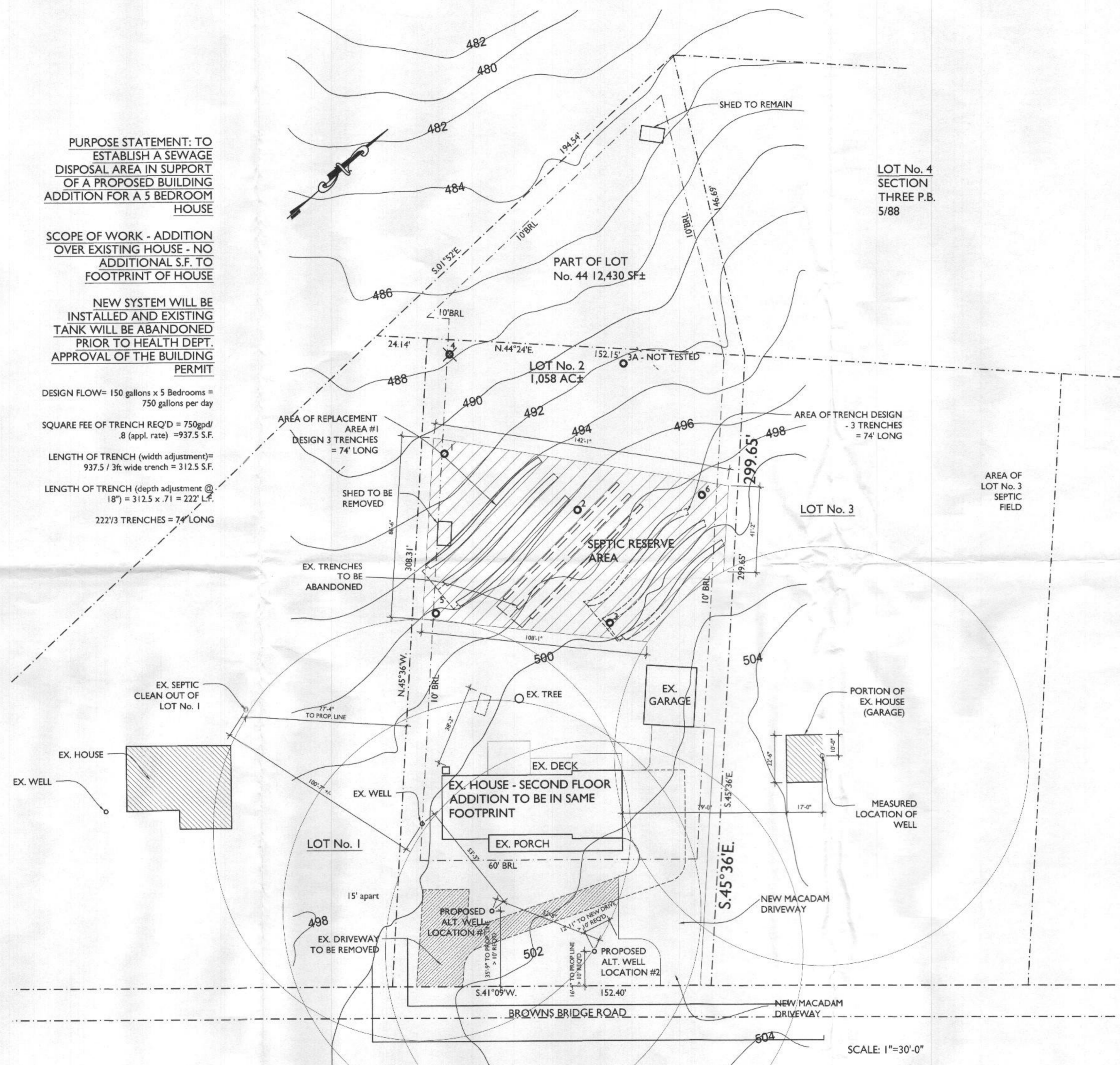
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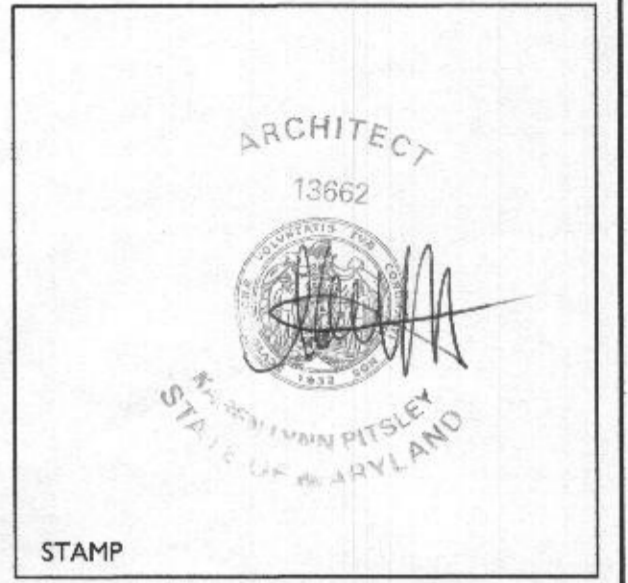
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