



HOWARD COUNTY HEALTH DEPARTMENT

61406

A 5

DATE
1/5/17

Received From Michael Wellen

PHONE # 301-512-7383

For Perc Applicant - 8470 Church Lane Rd

CASH

CHECK

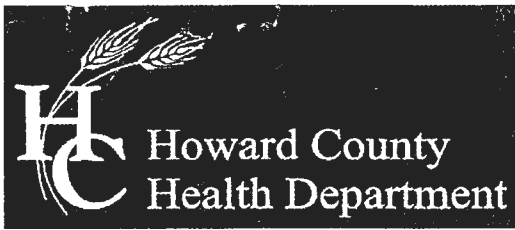
NO.

217

Five Hundred and six Dollars

\$ 506.00

Received By Shalea Beatty



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

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME

PROPERTY ADDRESS 8470 Church Lane Road Ellicott City 21043

TAX ACCOUNT # TAX MAP 18 GRID 13 PARCEL 292 LOT NO. PROPOSED LOT SIZE (ACRES)

ZONING CATEGORY TIER

PROPERTY OWNER(S) Michael & Laura Wellen

DAYTIME PHONE 301-512-7383 CELL 301-395-4467 EMAIL michaelwellen6@yahoo.com

MAILING ADDRESS 8470 Church Lane Road Ellicott City, MD 21043

APPLICANT Michael Wellen RELATIONSHIP TO OWNER:

DAYTIME PHONE 301-512-7383 CELL 301-395-4467 EMAIL michaelwellen6@yahoo.com

MAILING ADDRESS 8470 Church Lane Rd Ellicott City, MD 21043

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.

Michael Wellen

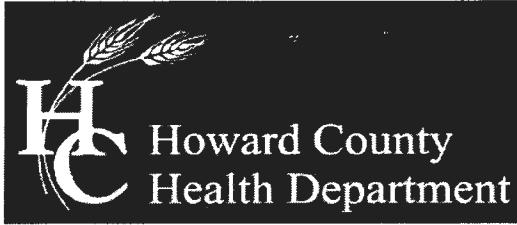
6/2/17

SIGNATURE OF APPLICANT

DATE

Submit with ① fee for \$506.

② percolation test plan



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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 3470 Church Lane Ellicott City

Subdivision: Lot:

Table with 4 columns: Replacement type, Application rate, Effective area beginning depth, Bottom maximum depth. Values are handwritten: Initial system (0.8, 3, 2), 1st Replacement (0.6, 5.5, 2), 2nd Replacement (0.8, 4, 2).

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.

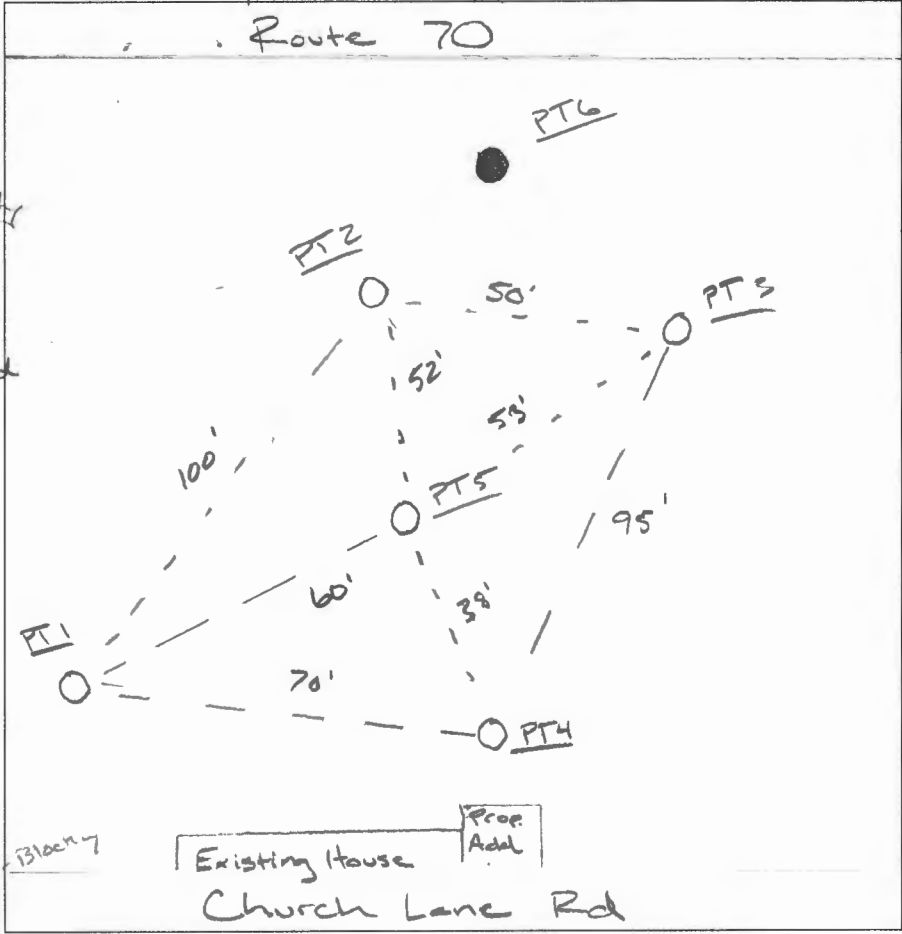
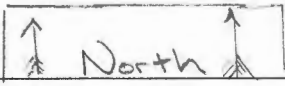
Standard design requirements:

- Trenches must be located to provide room for 3 systems in the disposal area
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:

Initial System: PT 1, PT 4, PT 5
1st Replacement: PT 5, PT 3
2nd Replacement: PT 2, PT 5

Approved: [Signature] Date: 7/14/17



APV

7-1

PT2

8" Pale Brown Yellow SBK Fine Sand Loam (Thin Platy)

4" Pale Brown Yellow Thin Platy Sand Micaceous Quartz Frag

7" White Gray Sand 20-30% Rx Hard Bottom

10" White Gray Sand Micaceous Quartz Frag

12" Hard Bottom

PT5

8" Pale Brown Gray SBK Fine Loam

8" Pale Brown Yellow Red CL

2" SBK Clay pebbles

3.5' SCL - 1/2" coarse Micaceous Yellow Pale Brown Quartz Frag

7" White Gray Sand Micaceous Quartz SBK Loam

PT4

8" Loam Pale Brown

2" SL Yellow Bw Thin Platy

10" SL Red Brown Thin Platy Thin Roots Many Fine Mic

PT1

1.6' Loam Pale SBK

SL Red Red Brown Thin Platy Micaceous Sand Pebbles

12-8

PT3

1' Loam Massive Blocky

3' SL Brown Blk Sharp Dime

5.6' Yellow Yellow Brown Quartz Frag Dime SCL - SL Dense SBK

5.6' Sand White Yellow Loam

(PT6)

Did Not Dig

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6/15/17	PT2	4/12	9:23	9:29	9:38	9 min	F
	PT5	3.9/14	9:48	10:19	SLOW		F
	PT4	5/14	10:13	10:16	10:22	6 min	P
	PT5	4.8/R	10:55		SLOW		F
	PT5	5.9/RS	11:20	11:39	12:28	29 min	P
	PT1	4.6/14.9	11:43	11:44	FAST		F
	PT1	RP/14.9	11:45	11:47	11:51	4 min	P
	PT3	4/14	12:13		SLOW		F
V	PT3	5.6/RS	12:37	12:49	1:17	28 min	

REMARKS _____

SANITARIAN Robert Freeman BACKHOE Jerry Dark Hill OTHERS TC & Mike

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

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

Thin roots

2-8

None 7-8

12-8

14

PRIMARY SYSTEM DESIGN

PROPOSED NUMBER OF BEDROOMS = 3
 W= 3' (TRENCH WIDTH)
 E= 3' (EFFECTIVE AREA DEPTH)
 B= 8' (BOTTOM MAX. DEPTH)
 D= 5' (B - E)
 APPLICATION RATE = 0.8 GPD/SQ.FT.
 150 GALS X 3 BEDROOMS = 450 GPD
 450 GPD ÷ 0.8 GPD/SQ. FT. = 562.5 SQ/ FT.
 SIDEWALL CREDIT (3 + 2) ÷ (3+1+ 2(5)) X 100 = 35.7%
 562.5 SQ. FT. X 35.7% ÷ 3 FT. = 66.9 LF OF TRENCH
 USE 2 X 34' OF TRENCH FOR INTIAL SYSTEM

REPLACEMENT SYSTEM #1 DESIGN

PROPOSED NUMBER OF BEDROOMS = 3
 W= 3' (TRENCH WIDTH)
 E= 5.5' (EFFECTIVE AREA DEPTH)
 B= 8' (BOTTOM MAX. DEPTH)
 D= 2.5' (B - E)
 APPLICATION RATE = 0.6 GPD/SQ.FT.
 150 GALS X 3 BEDROOMS = 450 GPD
 450 GPD ÷ 0.6 GPD/SQ. FT. = 750 SQ/ FT.
 SIDEWALL CREDIT (3 + 2) ÷ (3+1+ 2(5)) X 100 = 55.5%
 750 SQ. FT. X 55.5% ÷ 3 FT. = 138.9 LF OF TRENCH
 USE 3 X 47' OF TRENCH FOR REPLACEMENT SYSTEM #1

REPLACEMENT SYSTEM #2 DESIGN

PROPOSED NUMBER OF BEDROOMS = 3
 W= 3' (TRENCH WIDTH)
 E= 4' (EFFECTIVE AREA DEPTH)
 B= 8' (BOTTOM MAX. DEPTH)
 D= 4' (B - E)
 APPLICATION RATE = 0.8 GPD/SQ.FT.
 150 GALS X 3 BEDROOMS = 450 GPD
 450 GPD ÷ 0.8 GPD/SQ. FT. = 562.5 SQ/ FT.
 SIDEWALL CREDIT (3 + 2) ÷ (3+1+ 2(4)) X 100 = 41.7%
 562.5 SQ. FT. X 41.7% ÷ 3 FT. = 78.1 LF OF TRENCH
 USE 2 X 40' OF TRENCH FOR REPLACEMENT SYSTEM #2

GENERAL NOTES

1. THIS SURVEY WAS PREPARED WITHOUT BENEFIT OF A TITLE REPORT WHICH MAY REVEAL ADDITIONAL CONVEYANCES, EASEMENTS, OR RIGHTS-OF-WAY NOT SHOWN HEREON.
2. THE HORIZONTAL DATUM SHOWN HEREON IS BASED ON DEED NORTH PER DEED BOOK 432, PAGE 164.
3. THE 2 FOOT CONTOURS SHOWN HEREON ARE BASED ON A FIELD RUN SURVEY PERFORMED BY POINT TO POINT LAND SURVEYORS AND BASED ON AN ASSUMED ELEVATION DATUM.
4. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM ABOVE GROUND FIELD SURVEY INFORMATION. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
5. THE NEIGHBORING SEPTIC AREAS SHOWN HEREON ARE BASED ON VISIBLE OBSERVATIONS AT THE TIME OF THE FIELD SURVEY.
6. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
7. THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA LARGE ENOUGH TO ACCOMMODATE AN INITIAL AND 2 REPLACEMENT SYSTEMS AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE 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.
8. THE EXISTING SYSTEM MUST BE ABANDONED AND A NEW SYSTEM MUST BE INSTALLED PRIOR TO HEALTH APPROVAL OF THE BUILDING PERMIT.
9. THE HEALTH DEPARTMENT MUST APPROVE THE OSDS DESIGN PLAN PRIOR TO HEALTH APPROVAL OF THE BUILDING PERMIT OR ISSUANCE OF THE SEPTIC PERMIT.
10. THE EXACT LOCATION OF THE EXISTING SEPTIC SYSTEM COMPONENTS MUST BE SHOWN ON THE OSDS PLAN.
11. A PUMP SYSTEM MAY BE REQUIRED WITH DETAILS SHOWN ON THE OSDS PLAN AND 3 SYSTEMS MUST BE SHOWN TO FIT ON THE OSDS PLAN OR A BAT UNIT WILL BE REQUIRED.

PURPOSE STATEMENT

THE PURPOSE OF THIS PLAN IS TO ESTABLISH A 5,624 SQUARE FOOT SEWAGE DISPOSAL AREA AND PROVIDE A PROPOSED DESIGN OF A FUTURE SEPTIC SYSTEM. THE SEPTIC DISPOSAL AREA IS BEING ESTABLISHED DUE TO A PROPOSED ADDITION.

SOIL TYPE

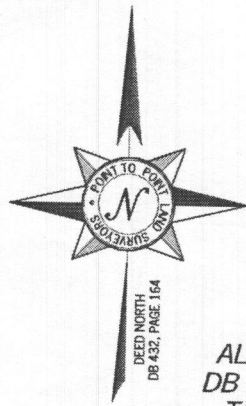
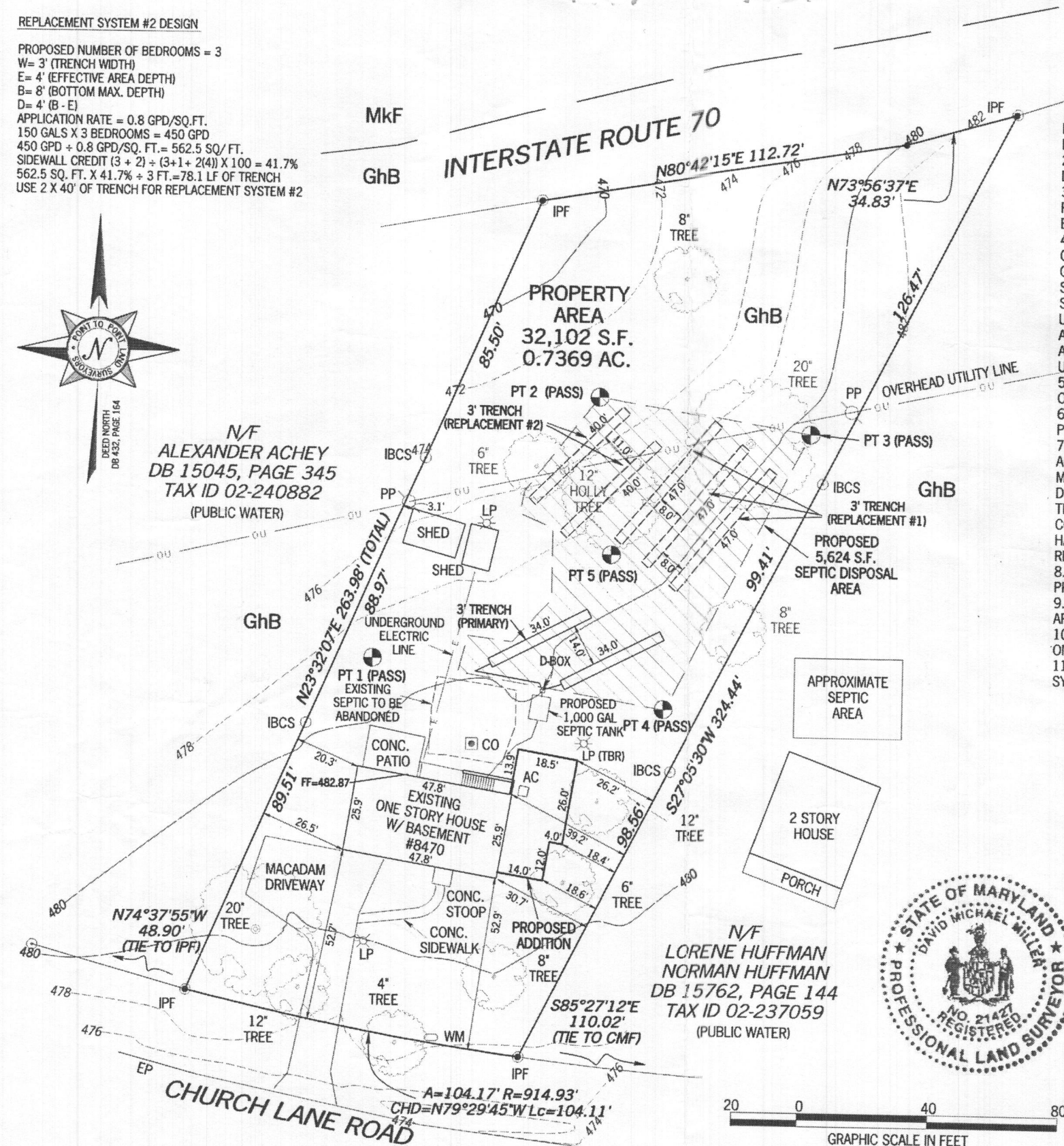
THE SOIL TYPE FOR THE SUBJECT PROPERTY IS CLASSIFIED AS GhB - (GLENELG-URBAN)

ACCT. 02-203162
8470 CHURCH LANE ROAD
ELLICOTT CITY, MD 21043
TAX MAP 18, GRID 13, PARCEL 292
SECOND TAX DISTRICT
HOWARD COUNTY, MARYLAND

THIS IS TO CERTIFY THAT THIS PLAT AND THE SURVEY ON WHICH IT IS BASED WERE PREPARED UNDER MY RESPONSIBLE CHARGE AND IS IN COMPLIANCE WITH THE MINIMUM STANDARDS OF PRACTICE SET FORTH IN COMAR, REGULATIONS 09.13.06.12.

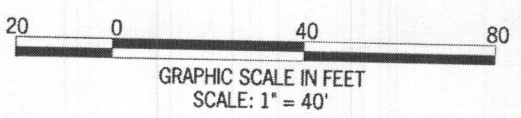
THIS PLAT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT WHICH MAY SHOW ADDITIONAL EASEMENTS, RIGHTS-OF-WAY, OR OTHER RESTRICTIONS OR ENCUMBRANCES NOT SHOWN HEREON.

[Signature]
 DAVID M. MILLER
 PROFESSIONAL LAND SURVEYOR #21427 (LIC. EXP. 12-28-18)
 DATE: 7/21/17



N/F
 ALEXANDER ACHEY
 DB 15045, PAGE 345
 TAX ID 02-240882
 (PUBLIC WATER)

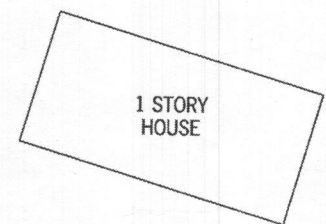
N/F
 LORENE HUFFMAN
 NORMAN HUFFMAN
 DB 15762, PAGE 144
 TAX ID 02-237059
 (PUBLIC WATER)



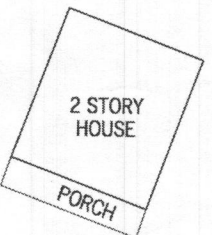
APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

[Signature]
 HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE: 7/28/17

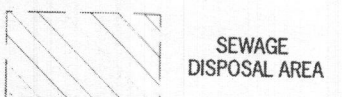
APPROXIMATE SEPTIC AREA



APPROXIMATE SEPTIC AREA

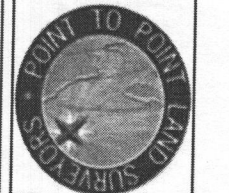


- LEGEND**
- N/F NOW OR FORMERLY
 - IBCS IRON BAR/CAP SET
 - IPF IRON PIPE FOUND
 - CMF CONCRETE MONUMENT FOUND
 - OU OVERHEAD UTILITIES
 - PP POWER POLE
 - EP EDGE OF PAVING
 - CO SEPTIC CLEANOUT
 - WM WATER METER
 - LP LIGHT POLE
 - TBR TO BE REMOVED
 - PT 5 PERC TEST
 - GhB SOIL TYPE



NO.	DATE	REVISIONS
1	6/27/17	SEPTIC CALCULATIONS

A SURVEY PREPARED BY:
POINT TO POINT LAND SURVEYORS
 208 E. Ridgeway Blvd., Suite 204
 Mount Airy, MD 21771
 (p) 301-703-8319 (f) 301-703-8324
 (w) pointtopointsurvey.com



PREPARED FOR:
MICHAEL WELLEN
8470 CHURCH LANE ROAD
ELLICOTT CITY, MD 21043

DRAWN BY: D. MILLER
 CHECKED BY:
 APPROVED BY: D. MILLER
 DATE: JUNE 1, 2017
 P2P JOB #: MD17-0085

SHEET: **1** OF 1

PERCOLATION CERTIFICATION PLAN