



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 557400

AGENCY REVIEW: _____

DATE 10-5-15

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 5 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) Woodstock Land LLC

DAYTIME PHONE 410-418-8900 CELL _____ FAX 410-203-9984

MAILING ADDRESS 3230 BERNARD LANE Suite #1 Ellicott City MD 21042
STREET CITY/TOWN STATE ZIP

APPLICANT Forty West Group, Inc., Patrick Costello

DAYTIME PHONE 410-418-8900 CELL _____ FAX 410-203-9984

MAILING ADDRESS 3230 BERNARD LANE Suite #1 Ellicott City MD 21042
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME _____ LOT NO. _____

PROPERTY ADDRESS 1684 Woodstock Road Woodstock 21163
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 10 GRID 18 PARCEL(S) 157 PROPOSED LOT SIZE 1.9978 Acres

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.

by: [Signature]

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

Kevin has
Demo Permit



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

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

TO: Thomas L. Frazier,
Van Mar Associates, Inc.

FROM: Dana Bernard, REHS/RS
Environmental Specialist II
Well and Septic Program
Development Coordination Section

RE: Woodstock Land, LLC
Percolation Certification Plan

DATE: January 28, 2016

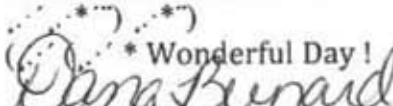
The following comments apply to the Percolation Certification plan prepared by Van Mar and Associates Inc.

- ✦ Each lot must show square footage of septic easement for verification.
- ✦ In the legend the symbol for the proposed test hole must be removed.
- ✦ In the legend the symbol for the failed test site must be removed.
- ✦ Lines five in the General notes must be removed. All percolation certification plans must be field run and verified by the engineer and must state so in the general notes. Howard County Code requires the topography to be verified/field run at two-foot intervals and a stated in the general notes certifying such. Howard county GIS is adequate in most cases for a test plan, however not for the percolation certification plan.
- ✦ Add a note to state that "All septic systems must use the "Best Available Technology". And will be designed and verified by the engineer."
- ✦ In the General Notes the following statement must be added" All structures will be abandoned prior to final recordation of the final plat and before the release of any building permits".
- ✦ There are two wells at 1684 Woodstock Road shown. One is on the side of the house which appears to be hand dug. And the other is in front of the house bearing the well tag number HO-15-014. Please verify the well tag number. I don't believe it is correct. The hand dug well must be shown on the plan and labeled "to be abandoned."

- ✚ Illustrate three proposed well sites or a 1500 sq.ft. well box with elliptical radius of 100 feet around each of the three well sites or well box.
- ✚ The existing septic system must be abandoned before the release of any building permit and must be labeled "to be abandoned".

If you have any questions or correspondence, I can be reached at the above e-mail address or by telephone at (410) 313-2775.

Thank you & Have a*")

* Wonderful Day !


Dana Bernard, R.E.H.S./L.E.H.S.

Environmental Specialist II

Bureau of Environmental Health

Well and Septic Program

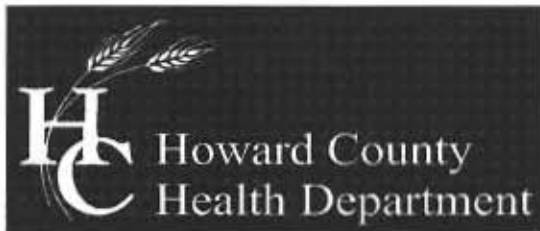
Phone (410) 313-2775

E-mail: DBernard@howardcountymd.gov

FILE INQUIRY NOTES

* Keep w/ File.

DATE	RESULTS OF REVIEW FOR FILE
10/14/14	<p>Upon arrival for scheduled repair perc, met homeowner and contractor on-site. Contractor already had <u>2</u> holes dug. Not bad locations but dug prior to my arrival and siting approval. Detailed explanations w/ homeowner prior to my site evaluation stated that no one currently living in house. Homeowner expressed that Fuglie had come out to site dug up system, cleared failure. Ex system is in fact concrete tank (ridgeman) w/ connecting dry well. No signs of surface discharge. Homeowner also stated that renovations / additions / raze of existing house will probably take place. I stated our current policy and reg's on upgrades / raze (Perc cert, 10,000 ft² max, etc.) and that "repair" was not correct mode of action. Since contractor had already dug 2 holes, might as well go ahead and perc test and give a proper site evaluation. (see perc notes). <u>Kmar</u></p> <p>* Homeowner given spec's of new repair system if house remains as is (<u>4BR</u>).</p> <p>WILL NEED FURTHER PERC TESTING + PERC CERT FOR ADDITIONS ADDING BR'S.</p>
8/13/14	<p>Spoke to Owner Patrick Castello who Stated that at this time there are no renovation plans for the existi-g house and to move forward w/ issuing the well permit. <u>PK</u></p>



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
Face book: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

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

DATE: October 10, 2017

TO: Vanmar and Associates LLC.
8313 Forrest Street Suite 200
Ellicott City, Maryland 21043

RE: **Percolation Certification Testing Application**
1684 Woodbine Road
Woodbine, Maryland 20777

I have reviewed your building permit application and we need a few revisions. The floor plans proposed is for a 7 bedroom. And your OSDS plan contains a design for 5 bedrooms only. A revised OSDS plan must be submitted if you intend on moving forward with your proposed design for 7 bedrooms and you must change the number of bedrooms with DPZ on your application.

Once we have resolved the revisions needed, your building permit will be approved. If you have any questions or correspondence, I can be reached at the above address or by telephone at (410) 313-2775.

Respectfully,

Dana Bernard, REHS/RS
Environmental Specialist II
Bureau of Environmental Health
Well and Septic Program
Phone (410) 313-2775
E-mail: DBernard@howardcountymd.gov

cc: Well & Septic program file

Williams, Jeffrey

From: Williams, Jeffrey
Sent: Friday, May 05, 2017 3:33 PM
To: tmv@vanmar.com
Cc: Bernard, Dana
Subject: 1684 Woodstock Rd
Attachments: 20170505134637125.pdf

This is a followup on Dana's email for revisions to the perc cert. I've attached a copy of the pproposed perc cert showing the 45 degree lines to stay out of when drawing a well location. We would like to see at least an initial site and one replacement site. The initial one will be no problem. Finding a replacement site will be a challenge. Maybe you can stretch the SDA to be up to 5' from the property line on the south side and up to 5' from the access easement on the north side and then shrink it away from the well to get another site over there.

The owner will need room for 3 systems in the area. Why don't you show 3 sets of trenches in the area for their proposed number of bedrooms and see if there's any room to take more off to make room for a well site. The specs will be:

- 1st system between holes 3 & 5: 0.8 rate effective depth from 3' to 8'
- 2nd system between holes 3 & 4: 0.8 rate effective depth from 4' to 8'.
- 3rd system between holes 3 & B: 0.8 rate effective depth from 7' to 8'

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@howardcountymd.gov

CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

E-mail: DBernard@howardcountymd.gov

LETTER OF TRANSMITTAL

☐ AGENCY ☐ CLIENT ☐ FILE ☐ ACCT. ☐ CORR. ☐ OTHER

VanMar Associates, Inc.

Engineers ~ Surveyors ~ Planners
310 South Main Street, P.O.Box 328, Mt. Airy, MD 21771
301-829-2890 301-831-5015 301-695-0600
410-549-2751 (FAX) 301-831-5603

TO: Bureau of Environmental Health
8930 Stanford Blvd
Columbia, Maryland 21045

Attn: Jeff Williams

DATE: August 9, 2017

PROJECT: Woodstock Land, LLC

VMA#: B45429

ENCLOSED:

COPIES	DATE	DESCRIPTION
3	8/8/17	On Site Sewage Disposal System Design Plan Lands Conveyed to Woodstock Land, LLC Liber 15806 at Folio 116

REMARKS: Hi Jeff, plan submitted for your review and approval. Thank you!

COPIES TO (ADDRESS): Woodstock Land, LLC, 3230 Bethany Lane, Ellicott City, Maryland 21042

SUBMITTED BY: dky

G:engr.5429 HD OSSD plan initial submission 8.9.17

LETTER OF TRANSMITTAL

☐ AGENCY ☐ CLIENT ☐ FILE ☐ BILLING ☐ CORESPONDANCE ☐ OTHER _____

VanMar Associates, Inc.

Engineers ~ Surveyors ~ Planners
310 South Main Street, P.O.Box 328, Mt. Airy, MD 21771
301-829-2890 301-831-5015 301-695-0600
410-549-2751 (FAX) 301-831-5603

TO: Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, Maryland 21045

Attn: Jeffrey E. Williams

DATE: October 18, 2017

PROJECT: Woodstock Land, LLC
1684 Woodstock Road

VanMar : B45429

ENCLOSED:

COPIES	DATE	DESCRIPTION
1	10/18/17	Letter to Jeffrey E. Williams requesting Approval of bedroom addition
3	10/18/17	REVISED Percolation Certification Plan, Woodstock Land, LLC, 1684 Woodstock Road
3	10/18/2017	REVISED On Site Sewage Disposal System Design Plan

REMARKS: Plans submitted for review and approval.

COPIES TO (ADDRESS): Woodstock Land, LLC, 3230 Bethany Lane, Ellicott City, Maryland 21043

SUBMITTED BY : Mag-M

ENGR:B45429.hd revised on site sewage & perc cert submission 10.18.17



**VANMAR
ASSOCIATES, INC.**

Engineers • Surveyors • Planners

310 South Main Street, P.O. Box 328, Mount Airy, Maryland 21771

(301) 829-2890
(301) 695-0600

(301) 831-5015

(410) 549-2751
Fax (301) 831-5603

October 18, 2017

Mr. Jeffrey E. Williams
Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045


RE: 1684 Woodstock Road
Revised Percolation Plan
Revised Onsite Sewage Disposal Design Plan

The homebuilder for 1684 Woodstock Road is proposing to construct a house on the recorded lot. The OSDS Design was for five (5) bedrooms. However, there are also two rooms and a bathroom in the basement. The homebuilder has agreed to eliminate one of the rooms. This will result in a new bedroom count of six (6) bedrooms.

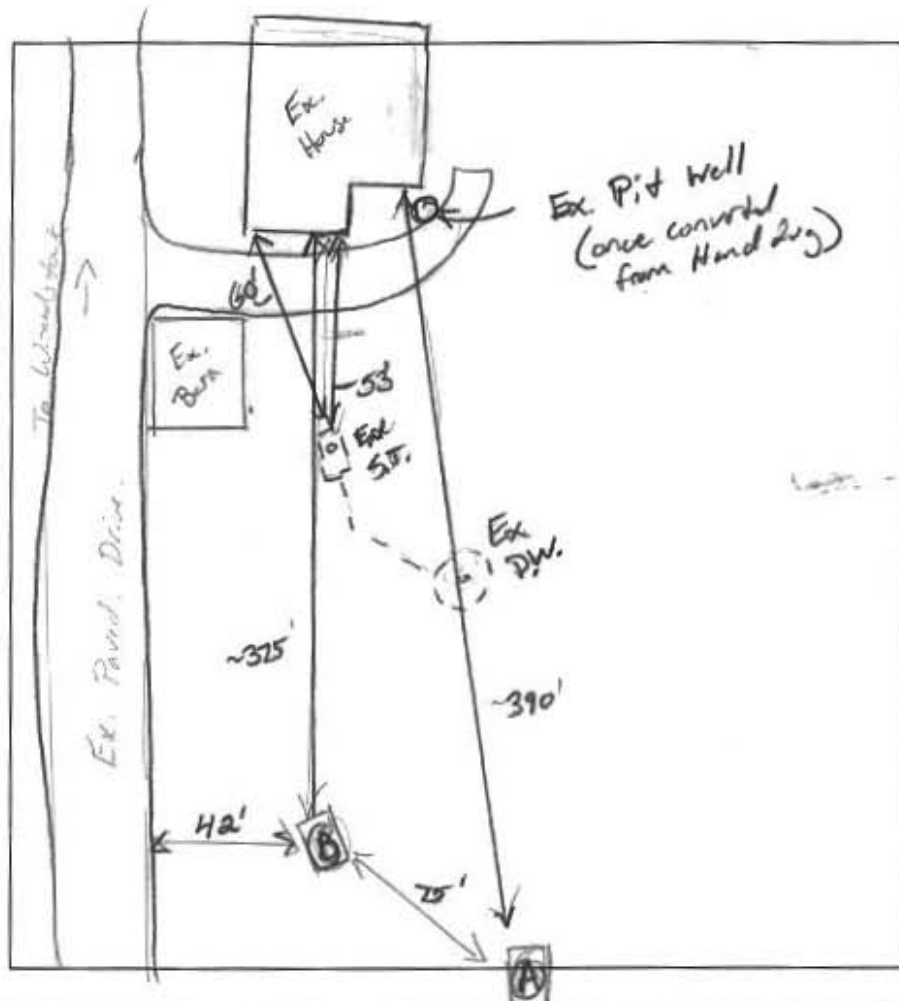
Per our discussion on October 17, 2017, VANMAR Associates is proposing to modify both the percolation certification plan and the OSDS Design Plan to accommodate the six bedrooms. The sewage disposal area has been increased 400 SF from 7,700 SF to 8,100 SF. Original plus two replacement systems are proposed. Enclosed with this submission is the revised Percolation Certification Plan, the original signed Percolation Certification Plan, and the revised OSDS Plan.

Please let me know if approved or any additional changes are necessary.

Thank you,
VANMAR ASSOCIATES



Ronald E. Thompson, P.E.



1000

(B)

WK 25BK,
om. DN 6c.
roots

Dense G.L.
Dark Br.
1/4 in. above
roots

Br/Y L.
Fertile, Dry
M3BK. Tgs
DK Br/Y 4:

Dr K Br/M.S.
CS, MSBK

$$\frac{Br}{N} \frac{R}{L}$$

no rd. Dry
WK 5BK

Manganese
Deposits
the deep



1

1

1

1

1

11

FT/BR _____

VE S/W 6

$$\frac{30}{1.2} \text{ m/s} = \frac{62.5}{2}$$
$$12,5(.44) =$$
[illegible]

* See memo

REMARKS

SANITARIAN K. Wolf BACKHOE Imola = Fuchs OTHERS Home owner

TEST HOLES USED IN SDA 2 AVG. PERC TIME 6 SQ. FT/BR

TRENCH WIDTH 2' INLET DEPTH 3-4' MAX. BOT DEPTH 9 EFFECTIVE S/W 6'

$$4 \times 150 = \frac{600 \text{ ft}^2}{1.2} = 500 \div 2 = 250 (1.44) = 110 \quad / \quad 5 \times 150 = \frac{750 \text{ ft}^2}{1.2} = \frac{625}{2} =$$
$$312.5(.44) = 137.5$$


om, rays
w/c salt

1. Br/Y CL

Dense, moist
rocks, Dry

1st row 20%
adverts

Br/Y/R	T: 11-12
--------	----------

51. as the

[illegible]

no rt. hand.

Fresh, Dry

consistent

slow H_2O seep

@ 17

AB

Same as note (A)

Hand Sleep.

Wood Stock Land

A/P

#4

Red Brown
yellow
Sch

4.0

Red Brown
yellow
Sch

5-10%
Ry
many
mice

↓

13.0

#5

Red Brown
yellow
Sch

3

Red Brown
yellow
FSh

many
mice

↓

12

#3

Red Brown
yellow
Sch

3

Red Brown
yellow
FSh

5-10%
Ry

many
mice

12

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/FH
11-16-15	4	4.5 13	10:03	10:13	10:35	12min	P
11-16-15	5	4.5 12	10:30	10:32	10:34	2min	P
11-16-15	3	12	Visual	Pars	-	-	P

REMARKS

SANITARIAN

Buried

BACKHOE

OTHERS

TEST HOLES USED IN SDA

AVG. PERC TIME

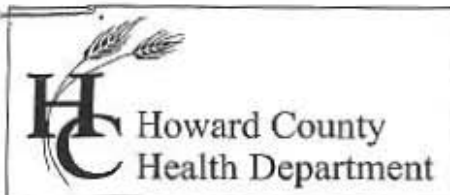
SQ. FT/BR

TRENCH WIDTH

INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE SW



Bureau of Environmental Health
8930 Stanford Blvd. Columbia, MD 210425
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
Website: www.hchealth.org

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

Date: November 23, 2015

To: Van mar Associates, Inc.
C/o Mr. T. Michael Vansant
Via E-Mail: tmv@vanmar.com
310 South Main Street
Mount Airy, Maryland 2171

RE: **Percolation Testing Report**
1684 Woodstock Road
Woodstock, Maryland 21163
Tax Map 10, Parcel 157

Mr. Vansant,

Percolation testing was conducted on the referenced property on November 16, 2015. The purpose for conducting these percolation tests was for an anticipated establishment of a sewage disposal area for 1 lot. Three holes were tested to support previous percolation testing.

A total of three (3) test holes evaluated and three (3) 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. 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. 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.

Respectfully,

Dana Bernard, REHS/RS
Environmental Specialist II
Well and Septic Program

Enclosures (2)
Cc: File

Woodstock Land

AP

#4

Red Brown
yellow
SCL 4.0

Red Brown
yellow
SCL
5-10%
Ry
many
mud
↓

#5

Red Brown
yellow
SCL 3

Red Brown
yellow
FSL
many
mud
↓

#3

Red Brown
yellow
SCL 3

Red Brown
yellow
FSL
5-10%
Ry
many
mud
↓

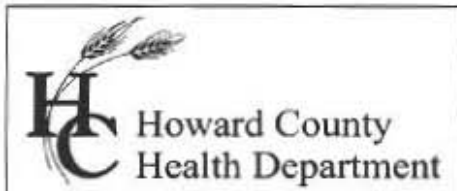
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
11-16-15	4	4.5 13	10:03	10:13	10:35	12min	P
11-16-15	5 th	4.5 12	10:30	10:32	10:34	2min	P
11-16-15	3	12	Visual Pass				- P

REMARKS

SANITARIAN Bernard BACKHOE _____ OTHERS _____

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

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



Bureau of Environmental Health
8930 Stanford Blvd. Columbia, MD 210425
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
Website: www.hchealth.org

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

Date: November 23, 2015

To: Van mar Associates, Inc.
C/o Mr. T. Michael Vansant
Via E-Mail: tmv@vanmar.com
310 South Main Street
Mount Airy, Maryland 2171

RE: **Percolation Testing Report**
1684 Woodstock Road
Woodstock, Maryland 21163
Tax Map 10, Parcel 157

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The next step in this process is to submit a Percolation Certification Plan to confirm the design of the septic reserve area. 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.

Respectfully,


Dana Bernard, REHS/RS
Environmental Specialist II
Well and Septic Program

Enclosures (2)
Cc: File

LETTER OF TRANSMITTAL

☐ AGENCY ☐ CLIENT ☐ FILE ☐ ACCT. ☐ CORR. ☐ OTHER

VanMar Associates, Inc.

Engineers ~ Surveyors ~ Planners
310 South Main Street, P.O.Box 328, Mt. Airy, MD 21771
301-829-2890 301-831-5015 301-695-0600
410-549-2751 (FAX) 301-831-5603

TO: Bureau of Environmental Health
8930 Stanford Blvd
Columbia, Maryland 21045

Attn: Dana Bernard, REHS/RS

DATE: January 13, 2016

PROJECT: Woodstock Land, LLC

VMA#: B45429

ENCLOSED:

COPIES	DATE	DESCRIPTION
1	11/23/15	Comment Letter from Dana Bernard
3	1/13/16	Percolation Certification Plan Lands Conveyed to Woodstock Land, LLC Liber 15806 at Folio 116

REMARKS: Hi Dana, Percolation Certification Plan for your review. Thank you!

COPIES TO (ADDRESS): Woodstock Land, LLC, 3230 Bethany Lane, Ellicott City, Maryland 21042

SUBMITTED BY: dky

G: engr.5429 HD perc cert plan submission 1.13.16



HOWARD COUNTY HEALTH DEPARTMENT

57400

DATE 10/31/15

A5

Received From

Woodstock Land LLC

PHONE #

410-413-8960

☐ CASH

☒ CHECK

NO.

1293

For

Per App/ 11684 Woodstock Rd.

\$

516.00

Dollars

Received By

J. King

Scheduled
Nov. 14

HOWARD COUNTY HEALTH DEPT.
BUREAU OF ENVIRONMENTAL HEALTH

LETTER OF TRANSMITTAL

☐ AGENCY ☐ CLIENT ☐ FILE ☐ ACCT. ☐ CORR. ☐ OTHER

VanMar Associates, Inc.

Engineers ~ Surveyors ~ Planners
310 South Main Street, P.O.Box 328, Mt. Airy, MD 21771
301-829-2890 301-831-5015 301-695-0600
410-549-2751 (FAX) 301-831-5603

TO: Bureau of Environmental Health
8930 Stanford Blvd
Columbia, Maryland 21045

Attn: Dana Bernard, REHS/RS

DATE: August 19, 2016

PROJECT: Woodstock Land, LLC

VMA#: B45429

ENCLOSED:

COPIES	DATE	DESCRIPTION
3	8/19/16	REVISED Percolation Certification Plan Lands Conveyed to Woodstock Land, LLC Liber 15806 at Folio 116

REMARKS: Hi Dana, Percolation Certification Plan revised to reflect comments and submitted for your Review and approval. Thank you!

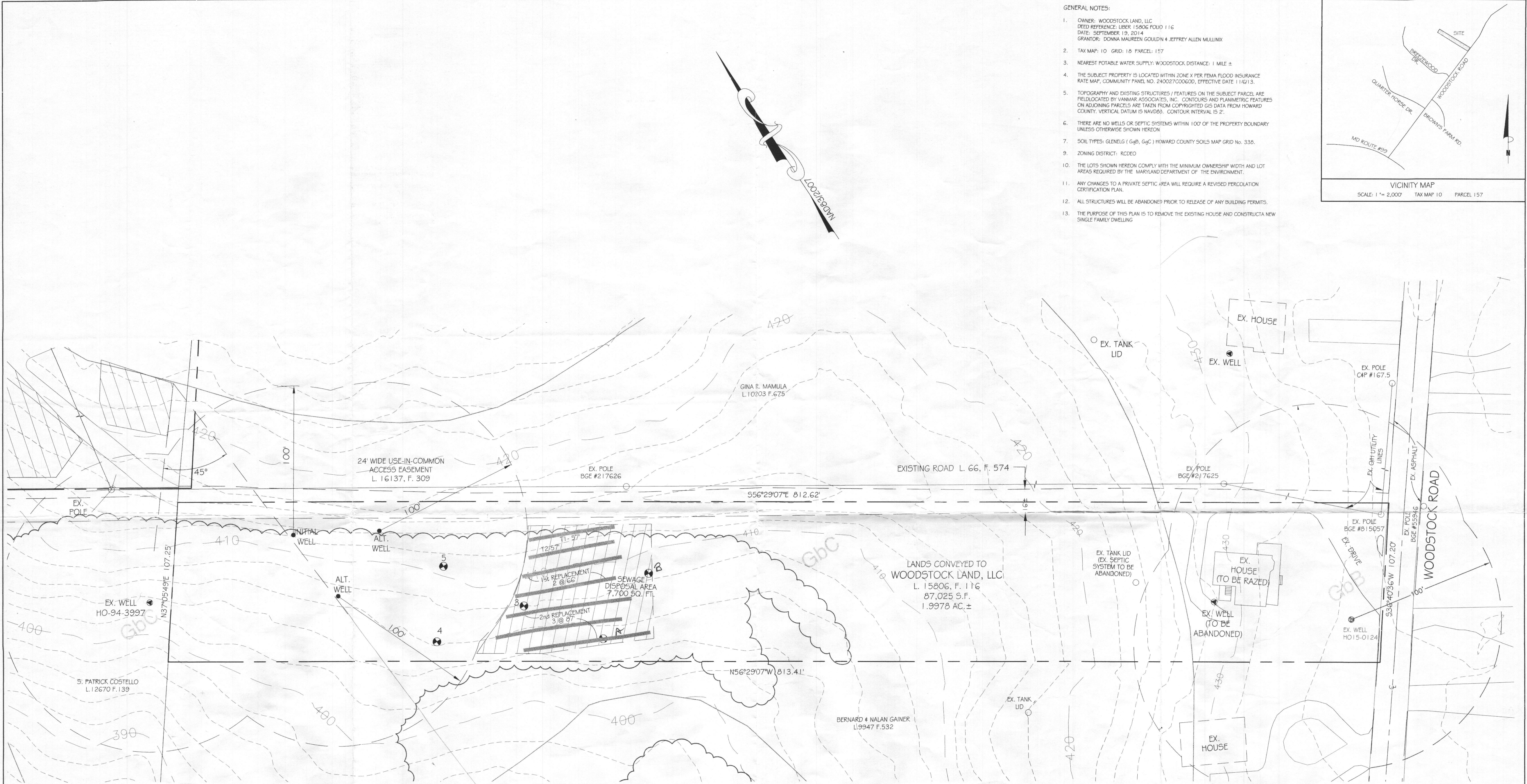
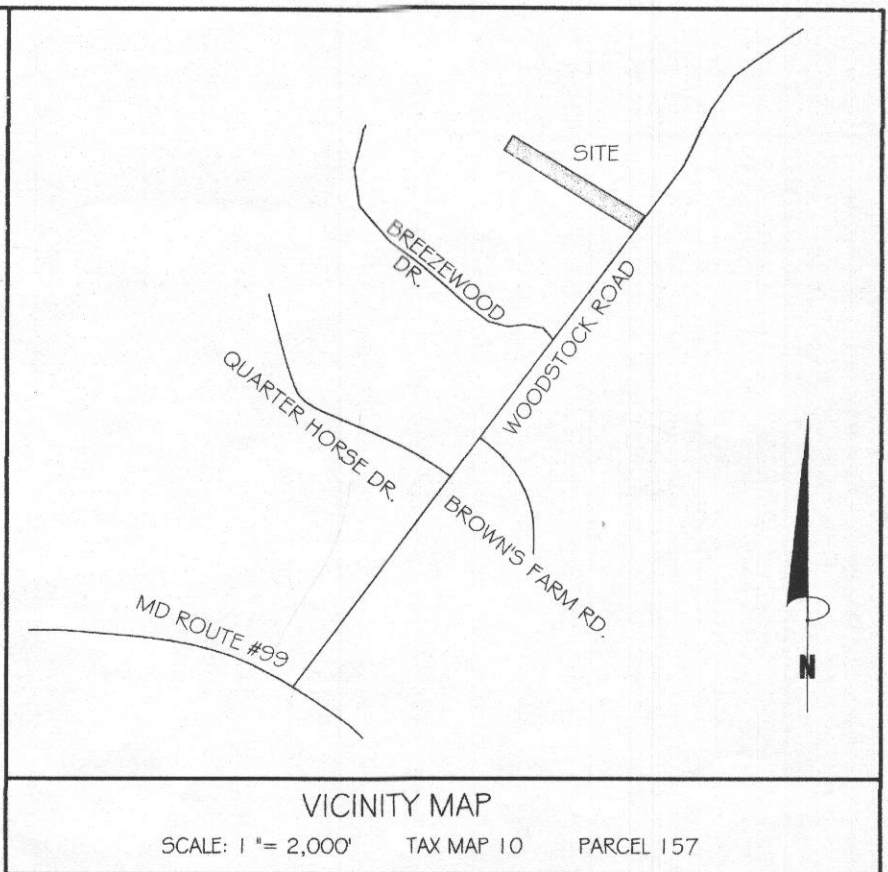
COPIES TO (ADDRESS): Woodstock Land, LLC, 3230 Bethany Lane, Ellicott City, Maryland 21042

SUBMITTED BY: dkv

G:engr.5429 HD perc cert plan submission 8.19.16

GENERAL NOTES:

- OWNER: WOODSTOCK LAND, LLC
DEED REFERENCE: LIBER 15806 FOLIO 116
DATE: SEPTEMBER 19, 2014
GRANTOR: DONNA MAUREEN GOULDIN & JEFFREY ALLEN MULLINX
- TAX MAP: 10 GRID: 18 PARCEL: 157
- NEAREST POTABLE WATER SUPPLY: WOODSTOCK DISTANCE: 1 MILE ±
- THE SUBJECT PROPERTY IS LOCATED WITHIN ZONE X PER FEMA FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 240027C00000, EFFECTIVE DATE: 11/6/13.
- TOPOGRAPHY AND EXISTING STRUCTURES / FEATURES ON THE SUBJECT PARCEL ARE FIELDLOCATED BY VANMAR ASSOCIATES, INC. CONTOURS AND PLANIMETRIC FEATURES ON ADJOINING PARCELS ARE TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY. VERTICAL DATUM IS NAVD83. CONTOUR INTERVAL IS 2'.
- THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREON.
- SOIL TYPES: GLENELG (GgB, GgC) HOWARD COUNTY SOILS MAP GRID NO. 33B.
- ZONING DISTRICT: RCDEO
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREAS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- ANY CHANGES TO A PRIVATE SEPTIC AREA WILL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- ALL STRUCTURES WILL BE ABANDONED PRIOR TO RELEASE OF ANY BUILDING PERMITS.
- THE PURPOSE OF THIS PLAN IS TO REMOVE THE EXISTING HOUSE AND CONSTRUCT A NEW SINGLE FAMILY DWELLING.

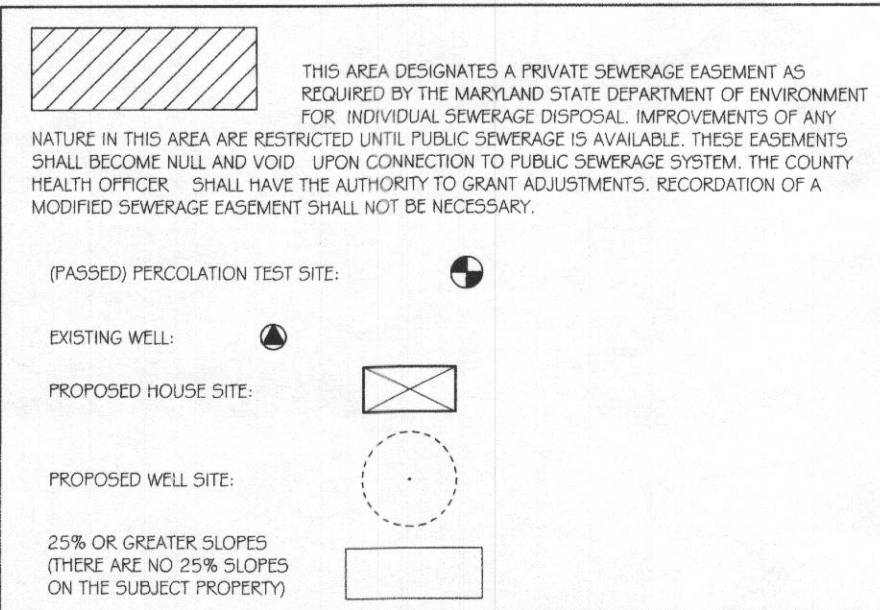


SEPTIC SYSTEM TRENCH DESIGN

INITIAL NUMBER OF BEDROOMS = 5
APPLICATION RATE = 0.8 GPD / sq.ft.
DESIGN FLOW: 150 GPD X 5 BEDROOMS = 750 GPD
750 GPD / 0.8 GPD/sq.ft. = 938 sq.ft.
938 sq.ft. / 3 ft. WIDE TRENCH = 313 LF TRENCH
313 LF TRENCH X 0.36 REDUCTION CREDIT = 113 LF TRENCH
TRENCH 1 (T1) EX. GRD=413.8 -INV. TRENCH=409.8 -B. TRENCH=405.8
TRENCH 2 (T2) EX. GRD=411.8 -INV. TRENCH=407.8 -B. TRENCH=403.8

1st REPLACEMENT
APPLICATION RATE = 0.8 GPD / sq.ft.
DESIGN FLOW: 150 GPD X 5 BEDROOMS = 750 GPD
750 GPD / 0.8 GPD/sq.ft. = 938 sq.ft.
938 sq.ft. / 3 ft. WIDE TRENCH = 313 LF TRENCH
313 LF TRENCH X 0.42 REDUCTION CREDIT = 132 LF TRENCH

2nd REPLACEMENT
APPLICATION RATE = 0.8 GPD / sq.ft.
DESIGN FLOW: 150 GPD X 5 BEDROOMS = 750 GPD
750 GPD / 0.8 GPD/sq.ft. = 938 sq.ft.
938 sq.ft. / 3 ft. WIDE TRENCH = 313 LF TRENCH
313 LF TRENCH X 0.83 REDUCTION CREDIT = 260 LF TRENCH



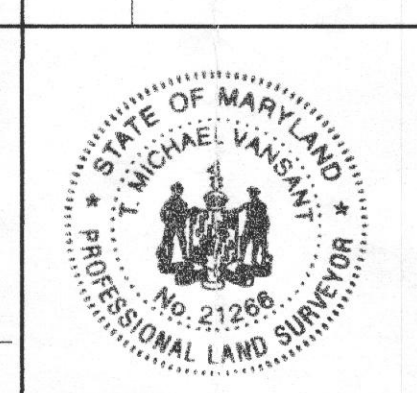
APPROVED:
FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT

Howard County Health Officer: *for Monica Roseman* 6/23/2017
DATE

I HEREBY 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.
I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21266, EXPIRATION DATE 09/09/2017, IN ACCORDANCE WITH COMAR 09.13.06.12.

Michael Vansant 6/14/2017
T. MICHAEL VANSANT, PROF. LAND SURVEYOR
MD. REGISTRATION NO. 21266, EXP. DATE 09/09/17

DATE	REVISIONS
01/15/16	PER HD COMMENTS
11/07/16	PROP. WELL 4 WELL BOX
01/19/17	WELL BOX NOTE
05/02/17	WELL SITES, TRENCHES, NOTES
06/14/17	ALT. WELL 3



See SDA+ alt. well locations on OSDS plan approved 2/15/18

PERCOLATION CERTIFICATION PLAN
LANDS CONVEYED TO
WOODSTOCK LAND, LLC
LIBER 15806 AT FOLIO 116

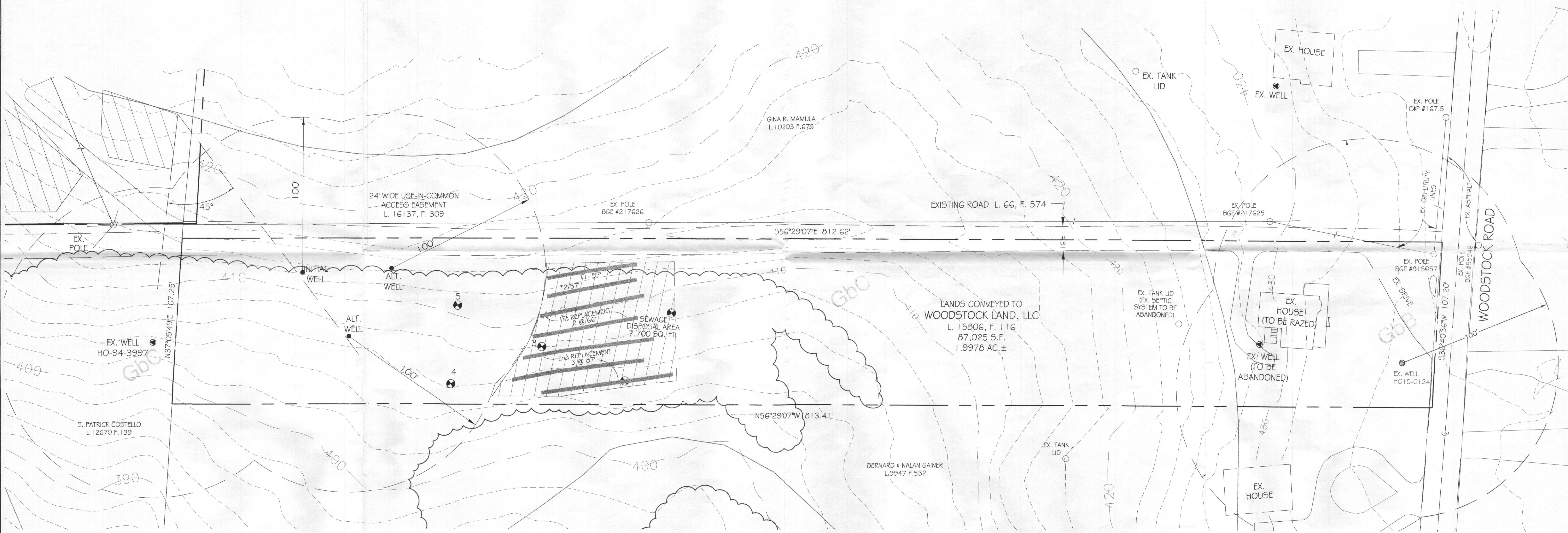
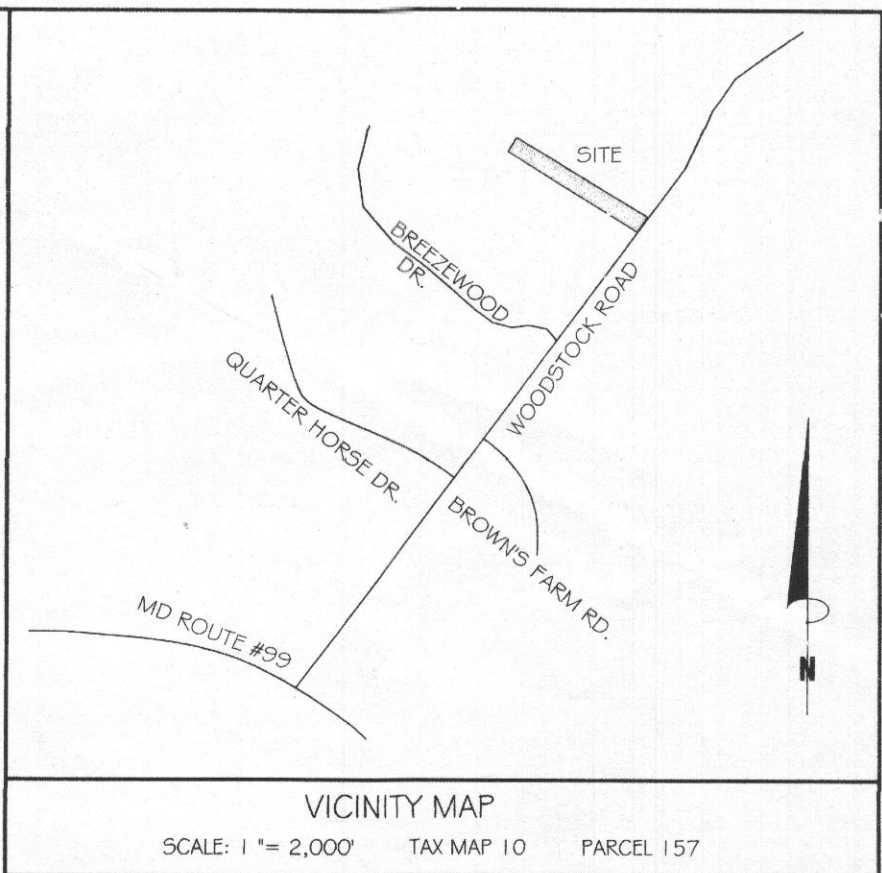
1684 WOODSTOCK ROAD
ELECTION DISTRICT No. 3
HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' JANUARY 2016

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 829-2890 (301) 831-5015 (410) 549-2751
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GENERAL NOTES:

- OWNER: WOODSTOCK LAND, LLC
DEED REFERENCE: LIBER 15806 FOLIO 116
DATE: SEPTEMBER 13, 2014
GRANTOR: DONNA MAUREN GOULDIN & JEFFREY ALLEN MULLINX
- TAX MAP: 10 GRID: 18 PARCEL: 157
- NEAREST POTABLE WATER SUPPLY: WOODSTOCK DISTANCE: 1 MILE ±
- THE SUBJECT PROPERTY IS LOCATED WITHIN ZONE X PER FEMA FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 24002700000, EFFECTIVE DATE 11/6/13.
- TOPOGRAPHY AND EXISTING STRUCTURES / FEATURES ON THE SUBJECT PARCEL ARE FIELDLOCATED BY VANMAR ASSOCIATES, INC. CONTOURS AND PLANNIMETRIC FEATURES ON ADJOINING PARCELS ARE TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY. VERTICAL DATUM IS NAVD83. CONTOUR INTERVAL IS 2'.
- THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREON.
- SOIL TYPES: GLENELG (GgB, GgC) HOWARD COUNTY SOILS MAP GRID NO. 33B.
- ZONING DISTRICT: RCDDO
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREAS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- ANY CHANGES TO A PRIVATE SEPTIC AREA WILL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- ALL STRUCTURES WILL BE ABANDONED PRIOR TO RELEASE OF ANY BUILDING PERMITS.
- THE PURPOSE OF THIS PLAN IS TO REMOVE THE EXISTING HOUSE AND CONSTRUCT A NEW SINGLE FAMILY DWELLING.



SEPTIC SYSTEM TRENCH DESIGN

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938 sq.ft. / 3 ft. WIDE TRENCH = 313 LF TRENCH
313 LF TRENCH X 0.83 REDUCTION CREDIT = 260 LF TRENCH

THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.

(PASSED) PERCOLATION TEST SITE:

EXISTING WELL:

PROPOSED HOUSE SITE:

PROPOSED WELL SITE:

25% OR GREATER SLOPES (THERE ARE NO 25% SLOPES ON THE SUBJECT PROPERTY):

APPROVED:
FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT

DATE: 6/23/2017

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DATE: 6/14/2017
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LANDS CONVEYED TO
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1604 WOODSTOCK ROAD
ELECTION DISTRICT No. 3
HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' JANUARY 2016

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OWNER:
WOODSTOCK LAND, LLC
3230 BETHANY LANE
ELICOTT CITY, MD
410-203-9980

