

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 545133

AGENCY REVIEW: _____

DATE 8-27-13

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 _____ 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)

Email - N98RD@AOL.COM

PROPERTY OWNER(S) Jeffery L. Hobbs

DAYTIME PHONE 301-641-0765 CELL Same FAX _____

MAILING ADDRESS PO Box 256 Fulton Md. 20759
STREET CITY/TOWN STATE ZIP

APPLICANT Robert A. Datten n98rd@aol.com

DAYTIME PHONE 410-792-0616 CELL 443-831-6281 FAX _____

MAILING ADDRESS PO Box 569 Fulton Md. 20759
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Beaufort Park Section 4 Area 2 'C' LOT NO. 12

PROPERTY ADDRESS _____
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) _____ GRID _____ PARCEL(S) _____ PROPOSED LOT SIZE 40,182

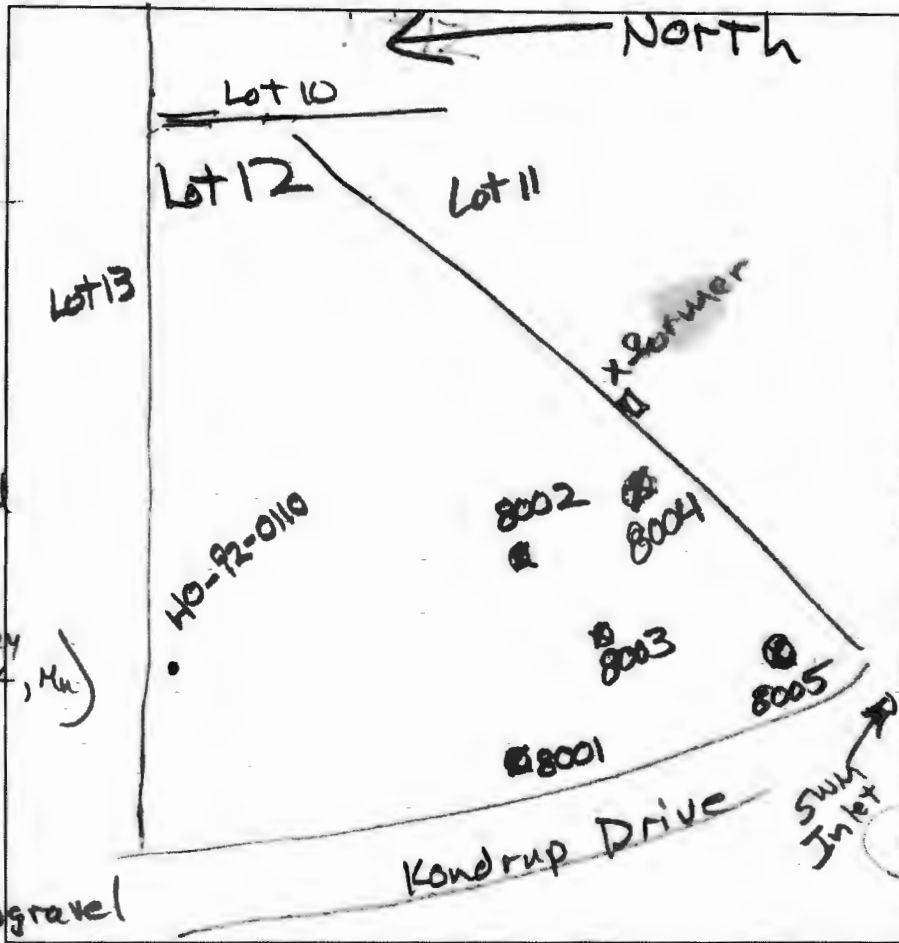
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT.

Robert A. Datten
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

AP



8005
dk brn sl
3' fg 4' sbk
brn sl
2' sbk
yel brn
ch ls
many mica
red & yel
ls, 3 upl
micaceous
(M2P (dk grey
1' blk, Mn))

8003
dk brn sl
3' fg
brn sl, few gravel
2' upl 2' sbk
red st sl
common mica
brn fs
com. mica
brn ls
many mica
red chls
many mica
brn chls
many mica

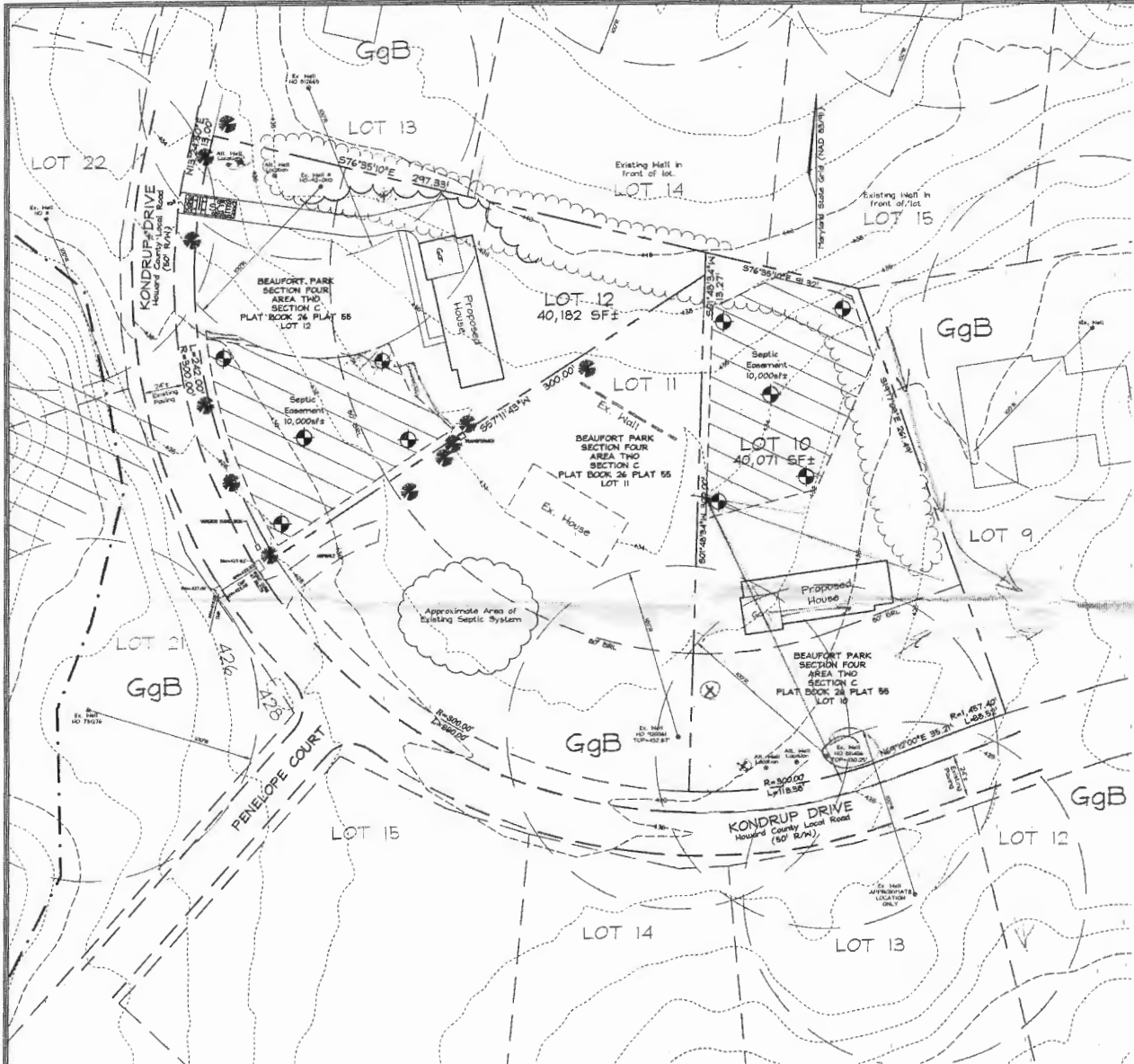
8002
dk brn sl
yel-red ls
many mica platy
yel-red ls, many mica
brn fs, dense
few stones, variable
types, varying orientation
brn & red ls
many mica
brn & red ls
micaceous

8001
dk brn sl
0.2' 3' fg
yel-brn sl
1' sbk
brn, yel-brn
2' grey-brn
st sl, coarse
plates
2' many mica
yel-red
brn sl
common mica
3.5' (1' blk, Mn)
brn & grey
loam, common
mica
5' spotty 1' sbk
(m & f) dk grey
brn loam
2' msbk
common mica
5.5' yel-red sl
many mica
1' sm
7.5' yel-red, sm
chls

8004
dk brn sl, 2' fg
brn sl, 3' sbk
common mica
brn fs
1' sbk, dense
common mica
2' yel-red ls
micaceous

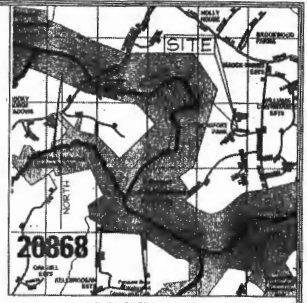
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9/24/13	8005	14'	Visual;		2'-10' OK 1.29 gpa / 19"		P
9/24/13	8001	6' / 14'	10:15	10:30	1/4"	reshelf	
9/24/13	8003	4.5' / 14'	10:35	10:37	10:41	4	P
9/24/13	8002	6.5' / 14'	12:22	12:25	12:29	4	P
	reshelf 8001	7' / 14'	11:34	11:36	11:40	4	P
9/24/13	8004	14'	Visual;		2'-10' 1.29 gpa / 19"		P

REMARKS: 8001, 'Fill' to 5'; 8002, fill to 4.5'; 8003, fill to 3'
 TEST HOLES USED IN SDA _____ AVG. PERC TIME 4 SQ. FT/BR 125
 TRENCH WIDTH 2 INLET DEPTH 2 to 5 MAX. BOT DEPTH 8 EFFECTIVE SW 3 to 6
 MAX.



LEGEND

- Existing Centerline
- Existing Spot Elevation
- Existing Trees to Remain
- Proposed Septic Easement
- Proposed House
- Prop. Plat Test
- Prop. Septic Easement
- Approximate Existing Well



VICINITY MAP
SCALE: 1"=200'

SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	SOIL GROUP
GgB	grading lawn, 3 to 8 percent slopes	B

GENERAL NOTES

1. Subject property parcel BE-060 per CD2020-04 Comprehensive Zoning Plan.
2. Area of property = 40,182 SF (Lot 12), 40,071 SF (Lot 10).
3. Private wells, and septic will be used within this site.
4. **NOTES** This area designates a private sewage easement of at least 10,000 square feet (or 10,000 square feet per lot, for shared drain fields associated with a physical sewage disposal facility) as required by the Maryland State Department of the Environment for individual sewage disposal (COMAR 26.04.03). Improvements of any nature to the area are restricted until public sewage is available. These easements shall become null and void upon connection to a public sewage system. The County Health Officer shall have the authority to grant adjustments to the private sewage easement. Modification of a modified sewage easement shall not be necessary.
5. All wells and septic fields within 100' of property's boundary have been shown.
6. Howard County Soil Map 445.
7. All the proposed septic fields shown herein are located on soil type GgB.
8. All wells on site are existing.
9. Property address: 12405 & 12397 Kondrup Drive, Fulkow, MD 20724.
10. The site shown herein complies with the minimum standards, with one lot area "A" required by the Maryland Department of the Environment.

"I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD MARKS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF."

ENCLOSURE: 2025 FISCAL Y.E. #2248 DATE
FSH ASSOCIATES

PERCOLATION APPLICATION PLAN
BEAUFORT PARK
LOT 10 & 12
Plat Book 26, Plat 55

TAX MAP 46 PARCEL 40
8th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

LOT 12 OWNER/DEVELOPER
Jeffery L. Hobbs
12401 Kondrup Drive
Fulkow, MD 20724

LOT 10 OWNER/DEVELOPER
Robert A. Duffey
12401 Kondrup Drive
Fulkow, MD 20724

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. RZ448, Expiration Date: 07/29/2026.

FSH Associates
Engineers Planners Surveyors
6339 Howard Lane, Linthicum, MD 21115
Tel: 410-551-5200 Fax: 410-795-1482
Email: fsh@fsh.com

DESIGN BY: CSH
DRAWN BY: CSH
CHECKED BY: JTE
SCALE: 1" = 30'
DATE: Aug 5, 2025
P.O. No.: 3842
SHEET No.: 1 of 1

APPROVED - FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

COUNTY HEALTH OFFICER _____ DATE _____
HOWARD COUNTY HEALTH DEPARTMENT

Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, July 19, 2022 10:03 AM
To: Jeremiah Reynolds
Cc: Rob Vogel
Subject: Perc Cert Plan Review Comments_12405 Kondrup Drive
Attachments: [Untitled].pdf

Hi Jeremiah:

In addition to my coworkers comments regarding the PC Plan for 12405 Kondrup Drive (see attachment), I noticed on the OSDS Plan that the SDA is 5 feet from the property line. You will either have to ask for a waiver to reduce the setback or adjust the SDA to 10 feet.

Please let me know if you have any questions.

Thanks,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Well & Septic Program
410.313.1786
hoswald@howardcountymd.gov

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

DATE: July 7, 2022

TO: Vogel Engineering
C/O Rob Vogel
Via E-Mail: Rob.Vogel@timmons.com

CC: N98RD@AOL.com
C/O Jeffery Hobbs

RE: **Percolation Certification Revised Plan
12405 Kondrup Drive**

In line 7 on your percolation plan it is stated that the area is not field located. This project must be field located and verified by an engineer or surveyor. The following statements must be added to support your plan.

- The topography of this plat is taken from _____ and is verified to accurately represent the relative changes on the subject property. By Vogel Engineering.

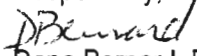
Also, a purpose statement indicating the purpose of the plan must be included on the plan.

And you must show two alternate well locations on the plan.

Remember the wells must be 50 feet apart or you must show a 1500 sq. ft. well box.

These items must be addressed and resubmitted. If you have any questions don't hesitate to reach out.

Respectfully,


Dana Bernard, REHS/L.E.H.S.
Environmental Specialist II
Well and Septic Program

Enclosures (2)
File

VOGEL ENGINEERING + TIMMONS GROUP

3300 North Ridge Road, Suite 110 Ellicott City, MD 21043
P 410.461.7666 F 410.461.8961 www.timmons.com

August 1, 2022

Ms. Dana Bernard
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, Maryland 21045

Re: **12405 Kondrup Drive**
Percolation Certification Revision Plan

Dear Ms. Bernard,

This letter is in response to your email comments dated July 7, 2022.

1. General note #7 states the topography is taken from a field run topographical survey performed by Vogel Engineering + Timmons Group, dated April 2022.
2. A purpose statement is located on the right side of the drawing, just above the Owner/Developer information.
3. The three well locations, as shown on the Percolation Certification Plan done by FSH and signed by the Health Department on 12/2/2013, are shown, and we have added a 4th alternate well location per the request of Jeff Williams. See email from Jeff Williams on July 29th, 2022.
4. The SDA is shown with the 5' setbacks to the property line and the right-of-way line as recorded on the Percolation Certification plan prepared by FSH and signed by Health on 12/2/2013. We have added a general note stating that Health approved a waiver to reduce the setbacks to 5' on December 02, 2013. Jeff Williams asked us to add this note to the plan. See email from Jeff Williams on July 29th, 2022.

Should you have any questions regarding this matter, please do not hesitate to contact this office.

Sincerely,
VOGEL ENGINEERING + TIMMONS GROUP



Robert H. Vogel, P.E.

Williams, Jeffrey

From: Rob Vogel <Rob.Vogel@timmons.com>
Sent: Friday, July 29, 2022 10:56 AM
To: Williams, Jeffrey
Cc: Bernard, Dana; Silvast, Zackary; Jeremiah Reynolds; Steve; greenleafbuildersmd
Subject: RE: 12405 Kondrup Drive
Attachments: Scan_2872-01.pdf

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Thanks Jeff

Attached is the sheet the builder provided to us which is signed. He was proposing to adjust the sewage easement lines. I tried to add the original lines back (shown in red).

But this is the plan I saw which was signed. Just sending for your information only.

Robert H. Vogel P.E., M.ASCE

Principal

VOGEL ENGINEERING + TIMMONS GROUP | www.timmons.com
3300 N. Ridge Road, Suite 110 | Ellicott City, MD 21043
Office: 410.461.7666 | Fax: 410.461.8961
<https://www.linkedin.com/company/timmons-group>
Your Vision Achieved Through Ours

To send me files greater than 20MB [click here](#)

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Sent: Friday, July 29, 2022 10:03 AM
To: Rob Vogel <Rob.Vogel@timmons.com>
Cc: Bernard, Dana <dbernard@howardcountymd.gov>; Silvast, Zackary <zsilvast@howardcountymd.gov>; Jeremiah Reynolds <Jeremiah.Reynolds@timmons.com>; Steve <hrbuilder@comcast.net>; greenleafbuildersmd <greenleafbuildersmd@gmail.com>
Subject: RE: 12405 Kondrup Drive

Hi Rob. I'm not seeing a signed version on the plan in our file, but our records indicate we signed a copy. Assuming it is the same as this unsigned version in the scanned file, just add a note on your revised perc cert stating that we approved a waiver to allow the SDA to be 5' from the property line. Property line must be staked out prior to septic system installation. Also, we are ok with the well separation as shown on this old plan, but it seems you could add a well location up by the top of the driveway maybe. 4 locations would be better than 3 if the separation is less and given the water scarcity in this neighborhood
Jeff

From: Rob Vogel <Rob.Vogel@timmons.com>
Sent: Thursday, July 28, 2022 9:33 AM
To: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Cc: Bernard, Dana <dbernard@howardcountymd.gov>; Silvast, Zackary <zsilvast@howardcountymd.gov>; Jeremiah

Reynolds <Jeremiah.Reynolds@timmons.com>; Steve <hrbuilder@comcast.net>; greenleafbuildersmd <greenleafbuildersmd@gmail.com>

Subject: FW: 12405 Kondrup Drive

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Jeff

We have a bit of a dilemma. The attached perc cert plan was prepared by FSH and approved by Health (this one is not signed). The signed perc plat is dated 12/2/2013. The perc cert plat showed the septic easement at 5' distance to property line and right-of-way line. The installed well and the backup well sites are less than 50' apart. I understand Dana is requesting that we revise the approved SDA to 10' from property line and right-of-way. The resulting SDA would be 7,800 sf. If we need to provide 1,500 sf well envelope we are then down to 6,300 SDA. Please let me know if we can chat about this.

Rob

Robert H. Vogel P.E., M.ASCE

Principal

VOGEL ENGINEERING + TIMMONS GROUP | www.timmons.com

3300 N. Ridge Road, Suite 110 | Ellicott City, MD 21043

Office: 410.461.7666 | Fax: 410.461.8961

<https://www.linkedin.com/company/timmons-group>

Your Vision Achieved Through Ours

To send me files greater than 20MB [click here](#)

From: Bernard, Dana <dbernard@howardcountymd.gov>

Sent: Monday, July 11, 2022 2:45 PM

To: Rob Vogel <Rob.Vogel@timmons.com>

Cc: Silvast, Zackary <zsilvast@howardcountymd.gov>

Subject: 12405 Kondrup Drive

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mr. Vogel,

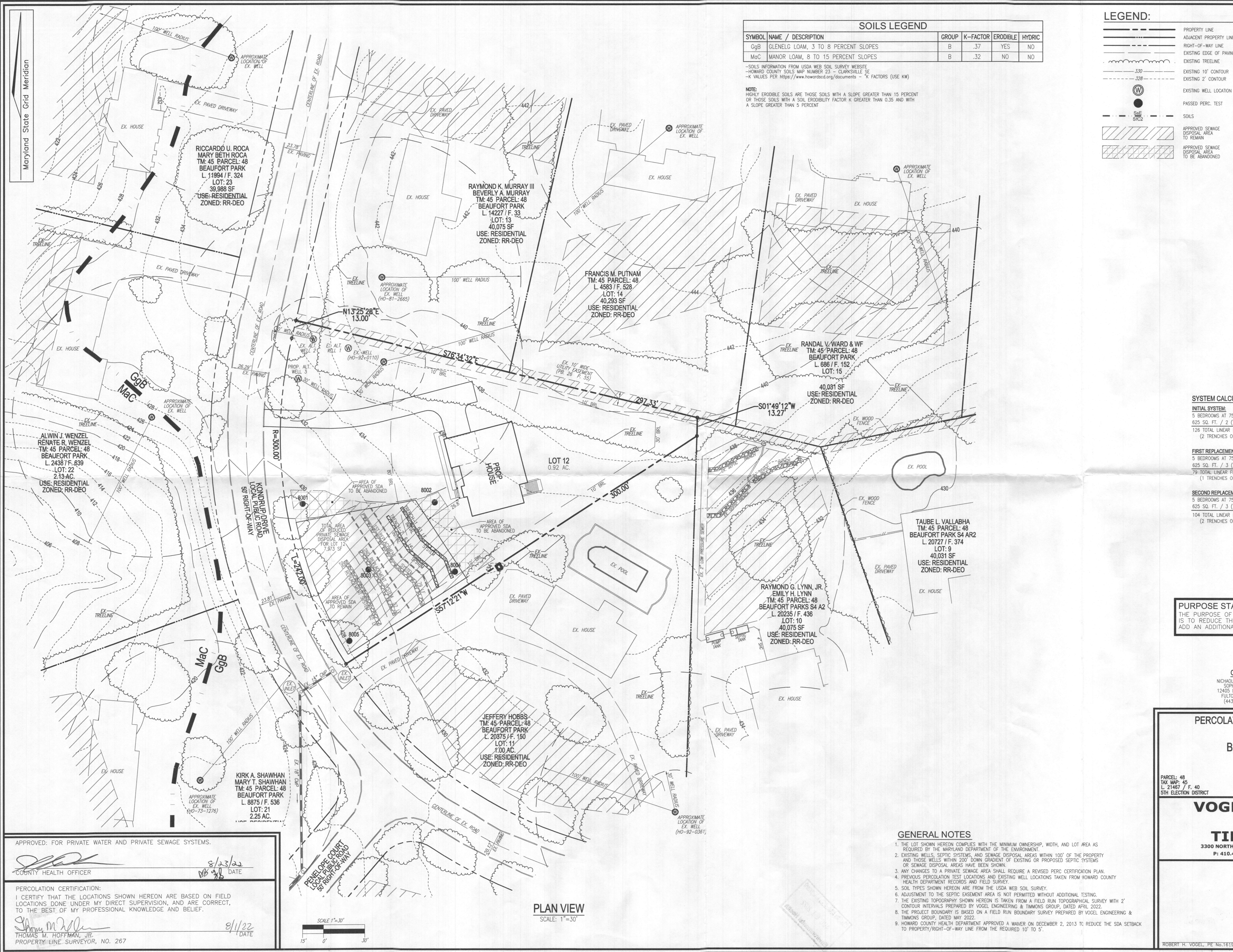
I have attached the revision information needed to revise your percolation plan. If you have any addition questions don't hesitate to send me an email.

Thanks

Dana Bernard

Well and Septic Program

Howard County Health Department



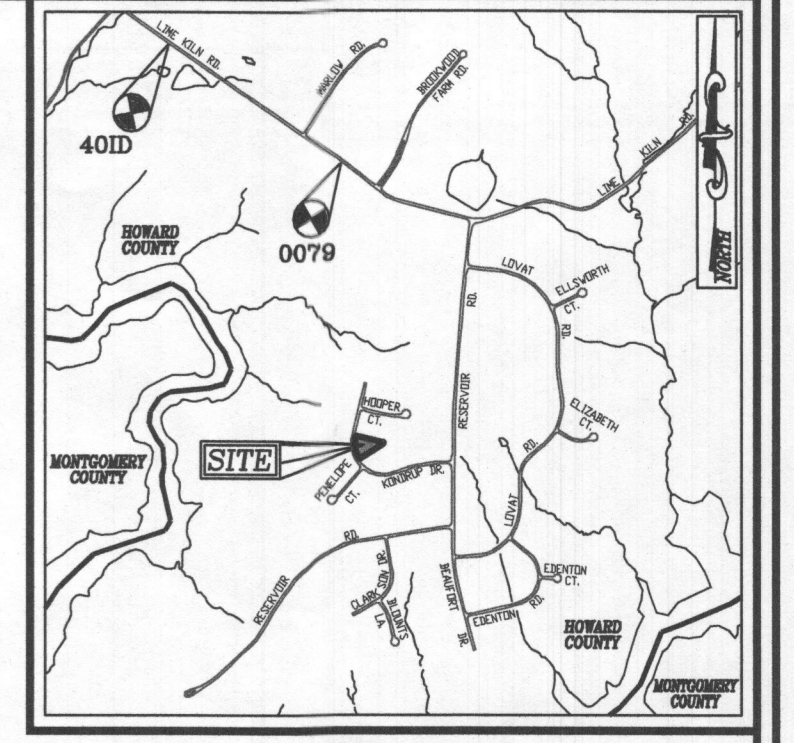
SOILS LEGEND					
SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE	HYDRIC
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.37	YES	NO
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.32	NO	NO

*SOILS INFORMATION FROM USDA WEB SOIL SURVEY WEBSITE
 *HOWARD COUNTY SOILS MAP NUMBER 23 - CLARKSVILLE SE
 *K VALUES PER <https://www.howardocd.org/documents> - *K FACTORS (USE KW)

NOTE:
 HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT

LEGEND:

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- RIGHT-OF-WAY LINE
- EXISTING EDGE OF PAVING
- EXISTING TREELINE
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING WELL LOCATION
- PASSED PERC. TEST
- SOILS
- APPROVED SEWAGE DISPOSAL AREA TO REMAIN
- APPROVED SEWAGE DISPOSAL AREA TO BE ABANDONED



VICINITY MAP
 SCALE: 1"=2000'
 ADC MAP: PAGE: 5051 BLOCK: JB

BENCHMARKS
 HOWARD COUNTY BENCHMARK 4010 (CONC. MON.)
 N 541312.56 E 1325896.28 ELEV. 367.00
 LOCATION: BY #12639 LIME KILN ROAD

HOWARD COUNTY BENCHMARK 0079 (CONC. MON.)
 N 540070.96 E 1327702.79 ELEV. 426.13
 LOCATION: LIME KILN ROAD EAST OF BROWNS BRIDGE ROAD

SYSTEM CALCULATIONS:

INITIAL SYSTEM:
 5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 2 (TRENCH WIDTH) x .40 (SIDEWALL REDUCTION) = 125 LINEAR FEET
 125 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.
 (2 TRENCHES OF 63 FEET IN LENGTH)

FIRST REPLACEMENT SYSTEM:
 5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 3 (TRENCH WIDTH) x .38 (SIDEWALL REDUCTION) = 79 LINEAR FEET
 79 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.
 (1 TRENCHES OF 79 FEET IN LENGTH)

SECOND REPLACEMENT SYSTEM:
 5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 3 (TRENCH WIDTH) x .50 (SIDEWALL REDUCTION) = 104 LINEAR FEET
 104 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE SECOND REPLACEMENT SYSTEM.
 (2 TRENCHES OF 52 FEET IN LENGTH)

PURPOSE STATEMENT
 THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION PLAN IS TO REDUCE THE SIZE OF THE APPROVED SDA FOR LOT 12 AND ADD AN ADDITIONAL ALTERNATE WELL LOCATION

OWNER
 NICHOLAS B. KENNEDY
 SOPHIA KENNEDY
 12405 KONDURP DRIVE
 FULTON, MD 20759
 (443) 250-5483

DEVELOPER
 GREENLEAF BUILDERS
 C/O STEPHEN C. FORNEY
 1601 JACKSON STREET
 BALTIMORE, MD 21220
 (443) 250-5483

PERCOLATION CERTIFICATION REVISION PLAN

BEAUFORT PARK - LOT 12
 12405 KONDURP DRIVE
 FULTON, MD 20759

PARCEL: 48
 TAX MAP: 45
 L. 21467 / F. 40
 5TH ELECTION DISTRICT

LOT: 12
 BLOCK: 12
 ZONED: RR-DEO
 HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING

TIMMONS GROUP

3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE

DESIGN BY: RHY
 DRAWN BY: JMR
 CHECKED BY: RHY
 DATE: JULY 2022
 SCALE: AS SHOWN
 W.O. NO.: 52714

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. 16183 EXPIRATION DATE: 09-27-2022

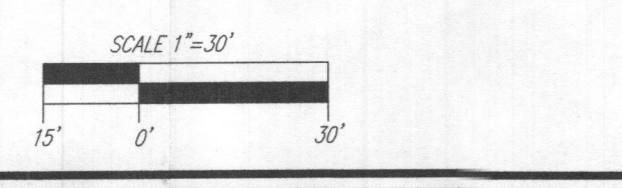
1 SHEET OF 1

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.

[Signature] 8/23/22
 COUNTY HEALTH OFFICER DATE

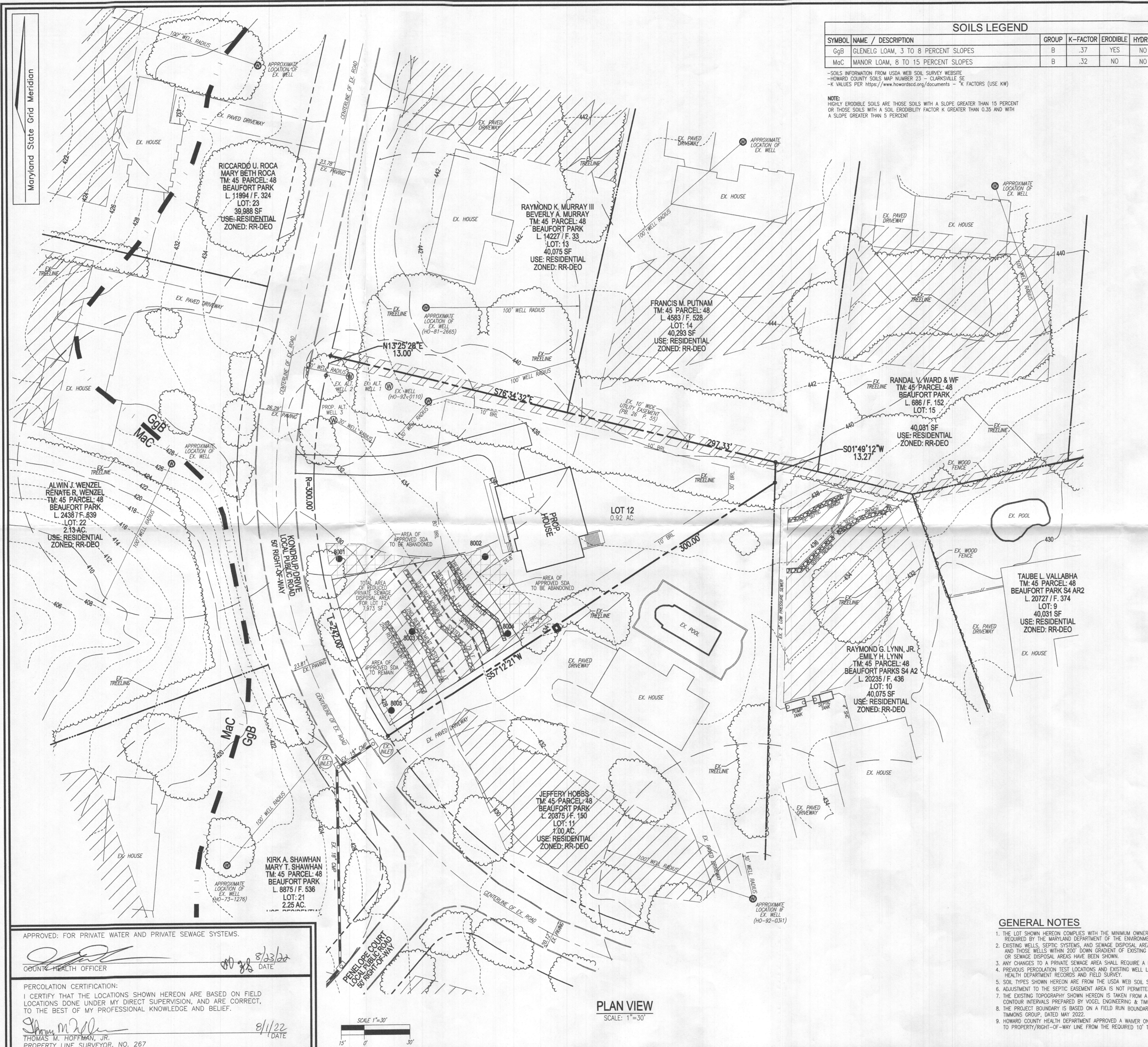
PERCOLATION CERTIFICATION:
 I CERTIFY THAT THE LOCATIONS SHOWN HEREON ARE BASED ON FIELD LOCATIONS DONE UNDER MY DIRECT SUPERVISION, AND ARE CORRECT, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

[Signature] 8/11/22
 THOMAS M. HOFFMAN, JR.
 PROPERTY LINE SURVEYOR, NO. 267 DATE



PLAN VIEW
 SCALE: 1"=30'

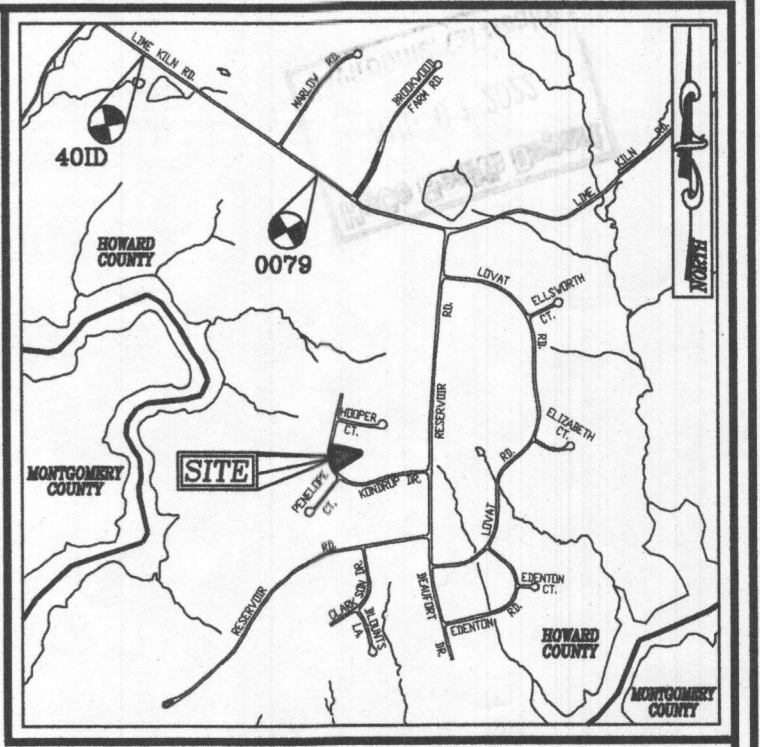
- GENERAL NOTES**
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 - EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
 - ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
 - PREVIOUS PERCOLATION TEST LOCATIONS AND EXISTING WELL LOCATIONS TAKEN FROM HOWARD COUNTY HEALTH DEPARTMENT RECORDS AND FIELD SURVEY.
 - SOIL TYPES SHOWN HEREON ARE FROM THE USDA WEB SOIL SURVEY.
 - ADJUSTMENT TO THE SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
 - THE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM A FIELD RUN TOPOGRAPHICAL SURVEY WITH 2' CONTOUR INTERVALS PREPARED BY VOGEL ENGINEERING & TIMMONS GROUP, DATED APRIL 2022.
 - THE PROJECT BOUNDARY IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY VOGEL ENGINEERING & TIMMONS GROUP, DATED MAY 2022.
 - HOWARD COUNTY HEALTH DEPARTMENT APPROVED A WAIVER ON DECEMBER 2, 2013 TO REDUCE THE SDA SETBACK TO PROPERTY/RIGHT-OF-WAY LINE FROM THE REQUIRED 10' TO 5'.



SOILS LEGEND					
SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE	HYDRIC
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.37	YES	NO
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.32	NO	NO

SOILS INFORMATION FROM USDA WEB SOIL SURVEY WEBSITE
 HOWARD COUNTY SOILS MAP NUMBER 23 - CLARKVILLE SE
 K-VALUES PER <https://www.howardcso.org/documents> - *K FACTORS (USE KW)
 NOTE:
 HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT
 OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH
 A SLOPE GREATER THAN 5 PERCENT

LEGEND:	
	PROPERTY LINE
	ADJACENT PROPERTY LINE
	RIGHT-OF-WAY LINE
	EXISTING EDGE OF PAVING
	EXISTING TREELINE
	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR
	EXISTING WELL LOCATION
	PASSED PERC. TEST
	SOILS
	APPROVED SEWAGE DISPOSAL AREA TO REMAIN
	APPROVED SEWAGE DISPOSAL AREA TO BE ABANDONED



VICINITY MAP
 SCALE: 1"=2000'
 ADC MAP: PAGE: 5051 BLOCK: JB

BENCHMARKS
 HOWARD COUNTY BENCHMARK 40D (CONC. MON.)
 N 541312.56 E 1325896.28 ELEV. 367.00
 LOCATION: BY #12639 LIME KILN ROAD
 HOWARD COUNTY BENCHMARK 0079 (CONC. MON.)
 N 540070.96 E 1327702.79 ELEV. 426.13
 LOCATION: LIME KILN ROAD EAST OF BROWNS BRIDGE ROAD

SYSTEM CALCULATIONS:
INITIAL SYSTEM:
 5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 2 (TRENCH WIDTH) x 40 (SIDEWALL REDUCTION) = 125 LINEAR FEET
 125 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.
 (2 TRENCHES OF 63 FEET IN LENGTH)
FIRST REPLACEMENT SYSTEM:
 5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 3 (TRENCH WIDTH) x 38 (SIDEWALL REDUCTION) = 79 LINEAR FEET
 79 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.
 (1 TRENCHES OF 79 FEET IN LENGTH)
SECOND REPLACEMENT SYSTEM:
 5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 3 (TRENCH WIDTH) x 50 (SIDEWALL REDUCTION) = 104 LINEAR FEET
 104 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE SECOND REPLACEMENT SYSTEM.
 (2 TRENCHES OF 52 FEET IN LENGTH)

PURPOSE STATEMENT
 THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION PLAN IS TO REDUCE THE SIZE OF THE APPROVED SDA FOR LOT 12 AND ADD AN ADDITIONAL ALTERNATE WELL LOCATION

OWNER
 NICHOLAS B. KENNEDY
 SOPHIA KENNEDY
 12405 KONDRUP DRIVE
 FULTON, MD 20759
 (443) 250-5483

DEVELOPER
 GREENLEAF BUILDERS
 C/O STEPHEN C. FORNEY
 1801 JACKSON STREET
 BALTIMORE, MD 21230
 (443) 250-5483

PERCOLATION CERTIFICATION REVISION PLAN
BEAUFORT PARK - LOT 12
 12405 KONDRUP DRIVE
 FULTON, MD 20759

PARCEL: 48
 TAX MAP: 45
 L. 21467 / F. 40
 5TH ELECTION DISTRICT

LOT: 12
 BLOCK: 12
 ZONED: RR-DEO
 HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING

TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

DESIGN BY: _____ RHV
 DRAWN BY: _____ JMR
 CHECKED BY: _____ RHV
 DATE: _____ JULY 2022
 SCALE: _____ AS SHOWN
 W.O. NO.: _____ 52714

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. 16184 EXPIRATION DATE: 08-27-2022

1 SHEET OF 1

- GENERAL NOTES**
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 - EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
 - ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
 - PREVIOUS PERCOLATION TEST LOCATIONS AND EXISTING WELL LOCATIONS TAKEN FROM HOWARD COUNTY HEALTH DEPARTMENT RECORDS AND FIELD SURVEY.
 - SOIL TYPES SHOWN HEREON ARE FROM THE USDA WEB SOIL SURVEY.
 - ADJUSTMENT TO THE SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
 - THE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM A FIELD RUN TOPOGRAPHICAL SURVEY WITH 2' CONTOUR INTERVALS PREPARED BY VOGEL ENGINEERING & TIMMONS GROUP, DATED APRIL 2022.
 - THE PROJECT BOUNDARY IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY VOGEL ENGINEERING & TIMMONS GROUP, DATED MAY 2022.
 - HOWARD COUNTY HEALTH DEPARTMENT APPROVED A WANNER ON DECEMBER 2, 2013 TO REDUCE THE SDA SETBACK TO PROPERTY RIGHT-OF-WAY LINE FROM THE REQUIRED 10' TO 5'.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.

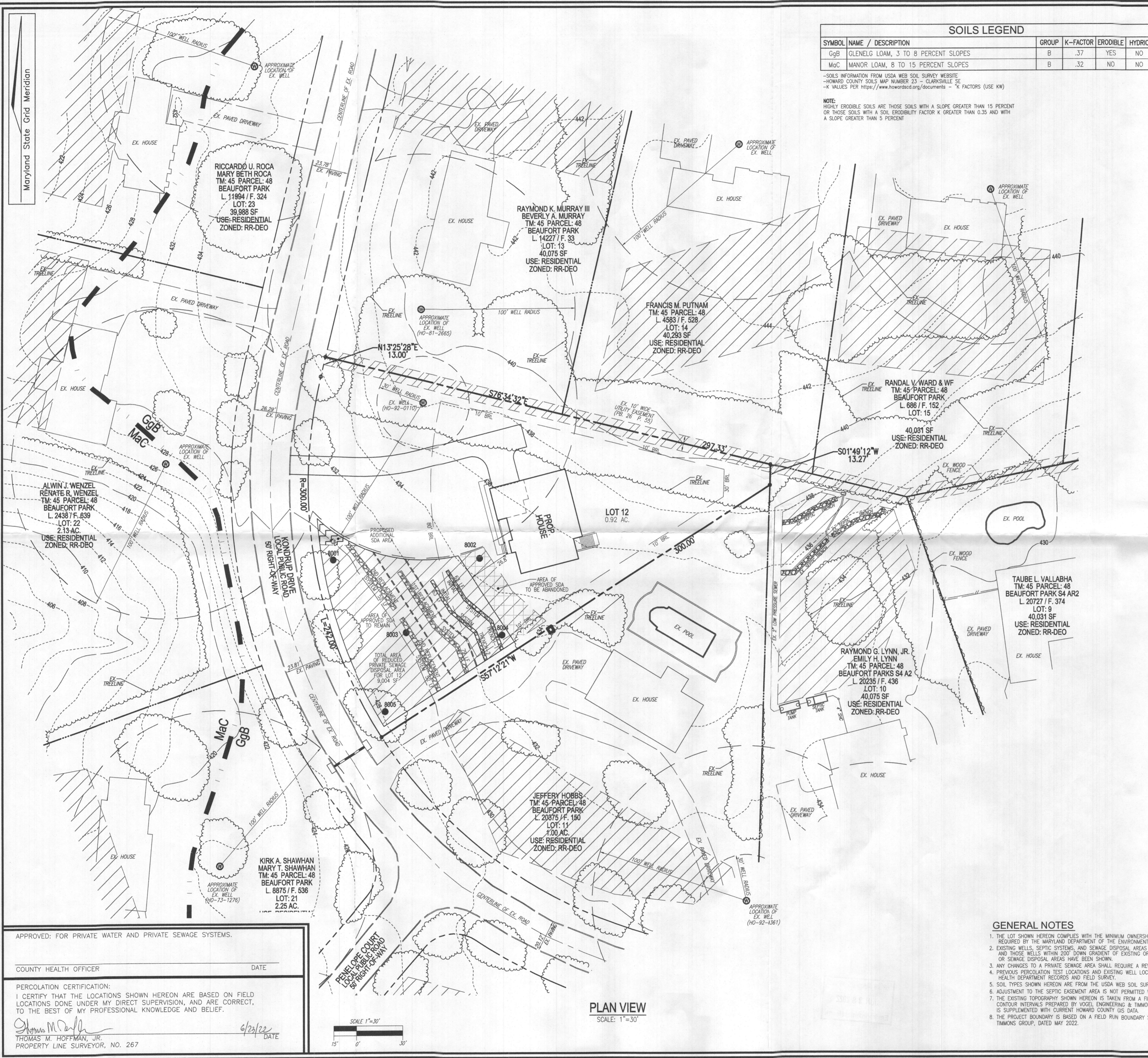
COUNTY HEALTH OFFICER

PERCOLATION CERTIFICATION:
 I CERTIFY THAT THE LOCATIONS SHOWN HEREON ARE BASED ON FIELD LOCATIONS DONE UNDER MY DIRECT SUPERVISION, AND ARE CORRECT, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

THOMAS M. HOFFMAN, JR.
 PROPERTY LINE SURVEYOR, NO. 267

8/11/22 DATE

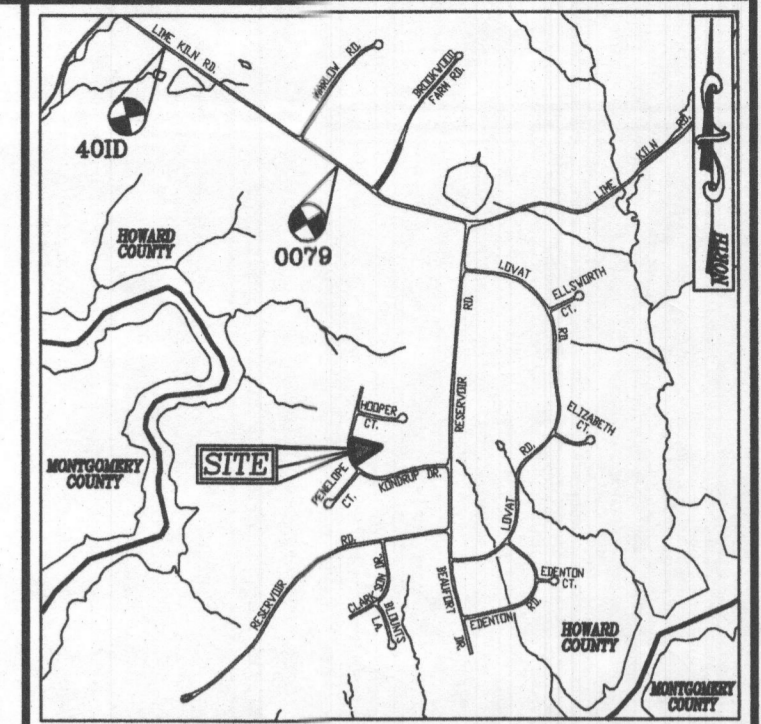




SOILS LEGEND					
SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE	HYDRIC
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.37	YES	NO
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.32	NO	NO

SOILS INFORMATION FROM USDA WEB SOIL SURVEY WEBSITE
 -HOWARD COUNTY SOILS MAP NUMBER 23 - CLARKSVILLE SE
 -K VALUES PER <https://www.howardscd.org/documents> - *K FACTORS (USE KW)
 NOTE: HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT

LEGEND:	
	PROPERTY LINE
	ADJACENT PROPERTY LINE
	RIGHT-OF-WAY LINE
	EXISTING EDGE OF PAVING
	EXISTING TREELINE
	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR
	EXISTING WELL LOCATION
	PASSED PERC. TEST
	SOILS
	APPROVED SEWAGE DISPOSAL AREA TO REMAIN
	APPROVED SEWAGE DISPOSAL AREA TO BE ABANDONED
	PROPOSED ADDITIONAL SEWAGE DISPOSAL AREA



VICINITY MAP
 SCALE: 1"=200'
 ADC MAP; PAGE: 5051 BLOCK: JB

BENCHMARKS
 HOWARD COUNTY BENCHMARK 40ID (CONC. MON.)
 N 541312.56 E 1325896.28 ELEV. 367.00
 LOCATION: BY #12639 LIME KILN ROAD

HOWARD COUNTY BENCHMARK 0079 (CONC. MON.)
 N 540070.96 E 1327702.79 ELEV. 426.13
 LOCATION: LIME KILN ROAD EAST OF BROWNS BRIDGE ROAD

SYSTEM CALCULATIONS:

INITIAL SYSTEM:
 5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 2 (TRENCH WIDTH) x 40 (SIDEWALL REDUCTION) = 125 LINEAR FEET
 126 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.
 (2 TRENCHES OF 63 FEET IN LENGTH)

FIRST REPLACEMENT SYSTEM:
 5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 3 (TRENCH WIDTH) x 38 (SIDEWALL REDUCTION) = 79 LINEAR FEET
 79 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.
 (1 TRENCHES OF 79 FEET IN LENGTH)

SECOND REPLACEMENT SYSTEM:
 5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 3 (TRENCH WIDTH) x 50 (SIDEWALL REDUCTION) = 104 LINEAR FEET
 104 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE SECOND REPLACEMENT SYSTEM.
 (2 TRENCHES OF 52 FEET IN LENGTH)

NOTE:
 THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION PLAN IS TO REDUCE THE SIZE OF THE APPROVED SDA FOR LOT 12 TO ALLOW FOR BETTER FIT OF THE PROPOSED HOUSE

OWNER
 NICHOLAS B. KENNEDY
 SOPHIA KENNEDY
 12405 KONDRUP DRIVE
 FULTON, MD 20759
 (443) 250-5483

DEVELOPER
 GREENLEAF BUILDERS
 C/O STEPHEN C. FORNEY
 1601 JACKSON STREET
 BALTIMORE, MD 21230
 (443) 250-5483

PERCOLATION CERTIFICATION REVISION PLAN

BEAUFORT PARK - LOT 12
 12405 KONDRUP DRIVE
 FULTON, MD 20759

PARCEL: 48
 TAX MAP: 45
 L. 21467 / F. 40
 5TH ELECTION DISTRICT

LOT: 12
 BLOCK: 12
 ZONED: RR-DEO
 HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING

TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.6666 F: 410.461.8961 www.timmons.com

DESIGN BY: RHW
 DRAWN BY: JMR
 CHECKED BY: RHW
 DATE: JUNE 2022
 SCALE: AS SHOWN
 W.O. NO.: 52714

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. 18163, EXPIRATION DATE: 06-27-2022

PROFESSIONAL CERTIFICATE

1 SHEET OF 1

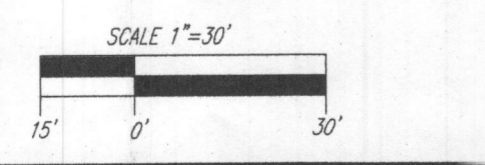
- GENERAL NOTES**
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 - EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
 - ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
 - PREVIOUS PERCOLATION TEST LOCATIONS AND EXISTING WELL LOCATIONS TAKEN FROM HOWARD COUNTY HEALTH DEPARTMENT RECORDS AND FIELD SURVEY.
 - SOIL TYPES SHOWN HEREON ARE FROM THE USDA WEB SOIL SURVEY.
 - ADJUSTMENT TO THE SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
 - THE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM A FIELD RUN TOPOGRAPHICAL SURVEY WITH 2' CONTOUR INTERVALS PREPARED BY VOGEL ENGINEERING & TIMMONS GROUP, DATED APRIL 2022. INFORMATION IS SUPPLEMENTED WITH CURRENT HOWARD COUNTY GIS DATA.
 - THE PROJECT BOUNDARY IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY VOGEL ENGINEERING & TIMMONS GROUP, DATED MAY 2022.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.

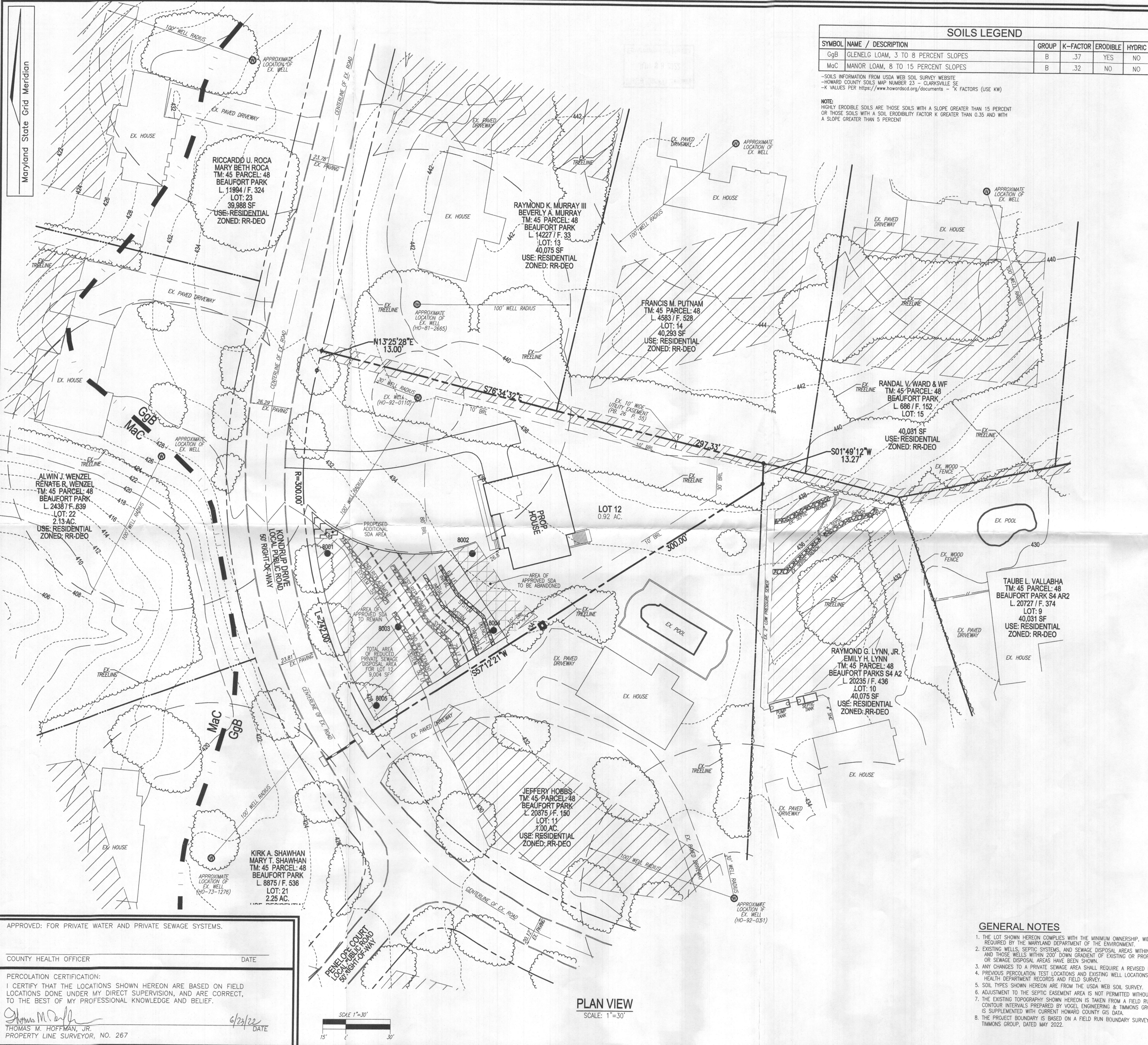
COUNTY HEALTH OFFICER _____ DATE _____

PERCOLATION CERTIFICATION:
 I CERTIFY THAT THE LOCATIONS SHOWN HEREON ARE BASED ON FIELD LOCATIONS DONE UNDER MY DIRECT SUPERVISION, AND ARE CORRECT, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

Thomas M. Hoffman, Jr.
 THOMAS M. HOFFMAN, JR.
 PROPERTY LINE SURVEYOR, NO. 267
 DATE: 6/23/22



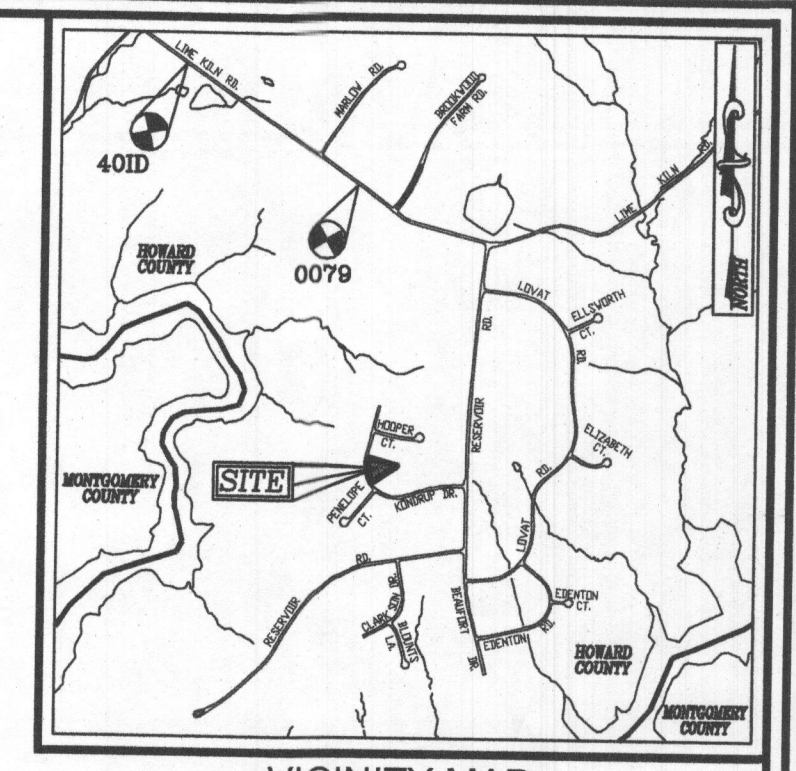
PLAN VIEW
 SCALE: 1"=30'



SOILS LEGEND					
SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE	HYDRIC
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.37	YES	NO
MoC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.32	NO	NO

NOTE: HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

LEGEND:	
	PROPERTY LINE
	ADJACENT PROPERTY LINE
	RIGHT-OF-WAY LINE
	EXISTING EDGE OF PAVING
	EXISTING TREELINE
	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR
	EXISTING WELL LOCATION
	PASSED PERC. TEST
	SOILS
	APPROVED SEWAGE DISPOSAL AREA TO REMAIN
	APPROVED SEWAGE DISPOSAL AREA TO BE ABANDONED
	PROPOSED ADDITIONAL SEWAGE DISPOSAL AREA



VICINITY MAP
SCALE: 1"=200'
ADC MAP: PAGE: 5051 BLOCK: JB

BENCHMARKS
HOWARD COUNTY BENCHMARK 40D (CONC. MON.)
N 541312.56 E 1325896.28 ELEV. 367.00
LOCATION: BY #12639 LIME KILN ROAD

HOWARD COUNTY BENCHMARK 0079 (CONC. MON.)
N 540070.96 E 1327702.79 ELEV. 426.13
LOCATION: LIME KILN ROAD EAST OF BROWNS BRIDGE ROAD

SYSTEM CALCULATIONS:

INITIAL SYSTEM:
5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
625 SQ. FT. / 2 (TRENCH WIDTH) x .40 (SIDEWALL REDUCTION) = 125 LINEAR FEET
126 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.
(2 TRENCHES OF 63 FEET IN LENGTH)

FIRST REPLACEMENT SYSTEM:
5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
625 SQ. FT. / 3 (TRENCH WIDTH) x .38 (SIDEWALL REDUCTION) = 79 LINEAR FEET
79 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.
(1 TRENCHES OF 79 FEET IN LENGTH)

SECOND REPLACEMENT SYSTEM:
5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
625 SQ. FT. / 3 (TRENCH WIDTH) x .50 (SIDEWALL REDUCTION) = 104 LINEAR FEET
104 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE SECOND REPLACEMENT SYSTEM.
(2 TRENCHES OF 52 FEET IN LENGTH)

NOTE:
THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION PLAN IS TO REDUCE THE SIZE OF THE APPROVED SDA FOR LOT 12 TO ALLOW FOR BETTER FIT OF THE PROPOSED HOUSE.

OWNER
NICHOLAUS B. KENNEDY
SOPHIA KENNEDY
12405 KONDRUP DRIVE
FULTON, MD 20759
(443) 250-5483

DEVELOPER
GREENLEAF BUILDERS
C/O STEPHEN C. FORNEY
1601 JACKSON STREET
BALTIMORE, MD 21220
(443) 250-5483

PERCOLATION CERTIFICATION REVISION PLAN

BEAUFORT PARK - LOT 12
12405 KONDRUP DRIVE
FULTON, MD 20759

PARCEL: 48
TAX MAP: 45
L. 21467 / F. 4D
5TH ELECTION DISTRICT

LOT: 12
BLOCK: 12
ZONED: RR-DEO
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING

TIMMONS GROUP

3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE

DESIGN BY: RHV
DRAWN BY: JMR
CHECKED BY: RHV
DATE: JUNE 2022
SCALE: AS SHOWN
W.O. NO.: 52714

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. 11913 EXPIRATION DATE: 06-27-2022

1 SHEET OF 1

GENERAL NOTES

- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
- PREVIOUS PERCOLATION TEST LOCATIONS AND EXISTING WELL LOCATIONS TAKEN FROM HOWARD COUNTY HEALTH DEPARTMENT RECORDS AND FIELD SURVEY.
- SOIL TYPES SHOWN HEREON ARE FROM THE USDA WEB SOIL SURVEY.
- ADJUSTMENT TO THE SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM A FIELD RUN TOPOGRAPHICAL SURVEY WITH 2' CONTOUR INTERVALS PREPARED BY VOGEL ENGINEERING & TIMMONS GROUP, DATED APRIL 2022. INFORMATION IS SUPPLEMENTED WITH CURRENT HOWARD COUNTY GIS DATA.
- THE PROJECT BOUNDARY IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY VOGEL ENGINEERING & TIMMONS GROUP, DATED MAY 2022.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.

COUNTY HEALTH OFFICER _____ DATE _____

PERCOLATION CERTIFICATION:
I CERTIFY THAT THE LOCATIONS SHOWN HEREON ARE BASED ON FIELD LOCATIONS DONE UNDER MY DIRECT SUPERVISION, AND ARE CORRECT, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

Thomas M. Hoffman, Jr.
THOMAS M. HOFFMAN, JR.
PROPERTY LINE SURVEYOR, NO. 267

6/21/22
DATE

