

VICINITY MAP
SCALE: 1"=2000'
ADC MAP: 31-A2 & B2

LEGEND:

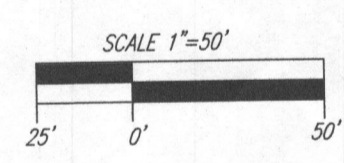
	EXISTING CONTOUR
	EXISTING CURB AND GUTTER
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	EXISTING TREE LINE (FIELD LOCATED)
	SOILS TYPE
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	PROPOSED PERC TEST LOCATION
	FAILED PERC TEST LOCATION
	PASSED PERC TEST LOCATION

NOTE:
1. THE EXISTING TOPOGRAPHY SHOWN HEREON WAS OBTAINED FROM HOWARD COUNTY GIS.
2. THE PROJECT OUTLINE IS BASED ON PLAT SUBMISSION WATERFORD, PLAT# 7582.
3. EXISTING SEPTIC AND WELL INFORMATION OBTAINED FROM HOWARD COUNTY HEALTH DEPARTMENT RECORDS.

SOILS LEGEND
HOWARD COUNTY SOILS MAP #XX

SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE
Gsb	Gladstone loam, 3 to 8 percent slopes	A	0.28	NO
Gbc	Gladstone loam, 8 to 15 percent slopes	A	0.28	NO
Gmb	Glenville silt loam, 3 to 8 percent slopes	D	0.37	YES

SOILS 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.



NO.	REVISION	DATE

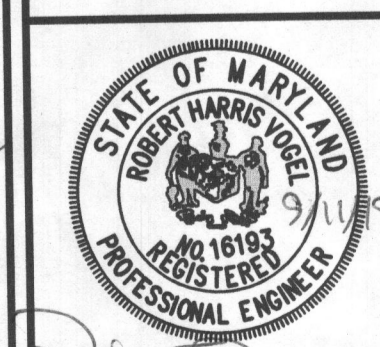
PERCOLATION TEST PLAN
WATERFORD

LOT 11
13105 BRIGHTON DAM ROAD, CLARKSVILLE, MD 21029

TAX MAP 34 BLOCK 09
5TH ELECTION DISTRICT

ZONED RR-DEO
PARCEL 261
HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL
ENGINEERS • SURVEYORS • PLANNERS
3300 N. RIDGE ROAD, SUITE 110 TEL: 410.461.7666
ELLCOTT CITY, MD 21043 FAX: 410.461.6961



PROFESSIONAL CERTIFICATE

DESIGN BY: RHV

DRAWN BY: KG

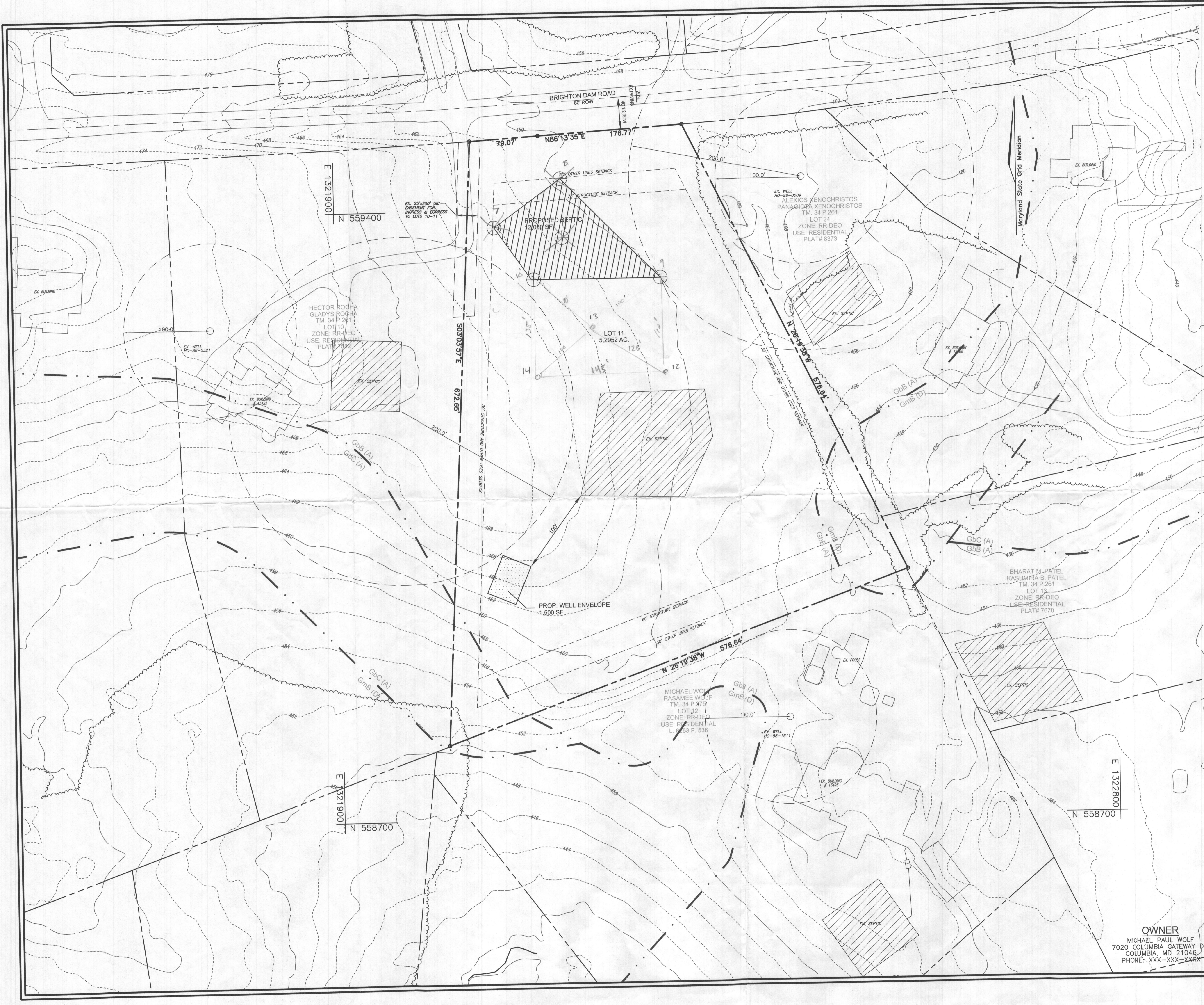
CHECKED BY: RHV

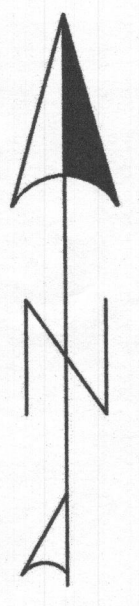
DATE: SEPTEMBER 2019

SCALE: 1"=50'

W.O. NO.: 44349

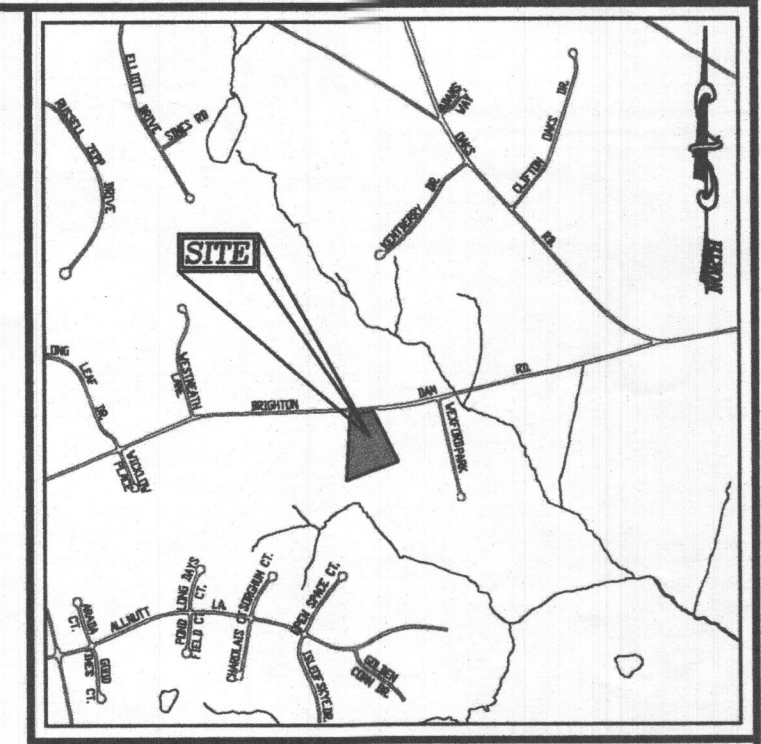
OWNER
MICHAEL PAUL WOLF
7020 COLUMBIA GATEWAY DR.
COLUMBIA, MD 21046
PHONE: XXX-XXX-XXXX





LEGEND:

- EXISTING CONTOUR
- EXISTING CURB AND GUTTER
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING SIGN
- EXISTING TREE LINE (FIELD LOCATED)
- SOILS TYPE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- FAILED PERC TEST LOCATION
- PASSED PERC TEST LOCATION
- PERC TEST NOT TESTED
- EX 20' DRAINAGE & UTILITY EASEMENT PLAT # 4623
- EX USE IN COMMON ACCESS EASEMENT PLAT # 7582
- APPROVED SEWAGE DISPOSAL AREA (SDA)
- APPROVED WELL AREA (TO REMAIN)
- APPROVED WELL AREA (TO BE ABANDONED)
- PROPOSED NEW WELL AREA



VICINITY MAP
SCALE: 1"=2000'
ADC MAP: 31-A2 & B2

GENERAL NOTES

1. THE LOT SHOWN HEREIN COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
2. 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.
3. MDE HAS APPROVED THE VARIANCE TO ALLOW THE PROPOSED SEPTIC SYSTEM TO BE UPGRADE OF THE NEIGHBORING WELL ON THE CONDITION BEST AVAILABLE TECHNOLOGY AND A LOW-PRESSURE DOSING SYSTEM ARE INSTALLED.
4. TOPOGRAPHY SHOWN IS AT TWO-FOOT CONTOUR INTERVALS AND IS TAKEN FROM HOWARD COUNTY GIS. ELEVATIONS FOR THE PERCOLATION TEST LOCATIONS ARE BASED ON FIELD RUN TOPOGRAPHY PERFORMED BY VOGEL ENGINEERING + TIMMONS GROUP, DATED OCTOBER 2019.
5. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
6. EXISTING SEPTIC AND WELL INFORMATION OBTAINED FROM HOWARD COUNTY HEALTH DEPARTMENT RECORDS.
7. THE BOUNDARY IS BASED ON A FIELD SURVEY PREPARED BY VOGEL ENGINEERING + TIMMONS GROUP, DATED OCTOBER 2019.
8. EXISTING WELL #HO-18-0140 HAS BEEN FIELD LOCATED BY VOGEL ENGINEERING + TIMMONS GROUP DATED OCTOBER 2019.

PURPOSE NOTE

THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION PLAN IS TO REVISE THE APPROVED WELL BOX LOCATION TO ACCOMMODATE REQUIRED ESD PRACTICES FOR STORMWATER MANAGEMENT.

THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. 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.

SOILS LEGEND
HOWARD COUNTY SOILS MAP #00X

SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE
GbB	Clodstone loam, 3 to 8 percent slopes	A	0.28	NO
GbC	Clodstone loam, 8 to 15 percent slopes	A	0.28	NO
GmB	Cherwell silt loam, 3 to 8 percent slopes	D	0.37	YES

SOILS 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.

NO.	REVISION	DATE

PERCOLATION CERTIFICATION REVISION PLAN
WATERFORD
LOT 11
13105 BRIGHTON DAM ROAD, CLARKSVILLE, MD 21029

TAX MAP 34 BLOCK 09
5TH ELECTION DISTRICT

ZONED RR-DEO
PARCEL 281
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

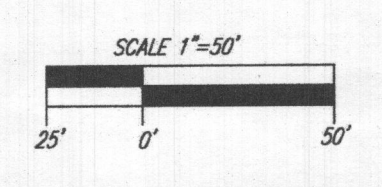
DESIGN BY: RHV
DRAWN BY: TAB
CHECKED BY: RHV
DATE: OCTOBER 2021
SCALE: 1"=50'
W.O. NO.: 44349

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.

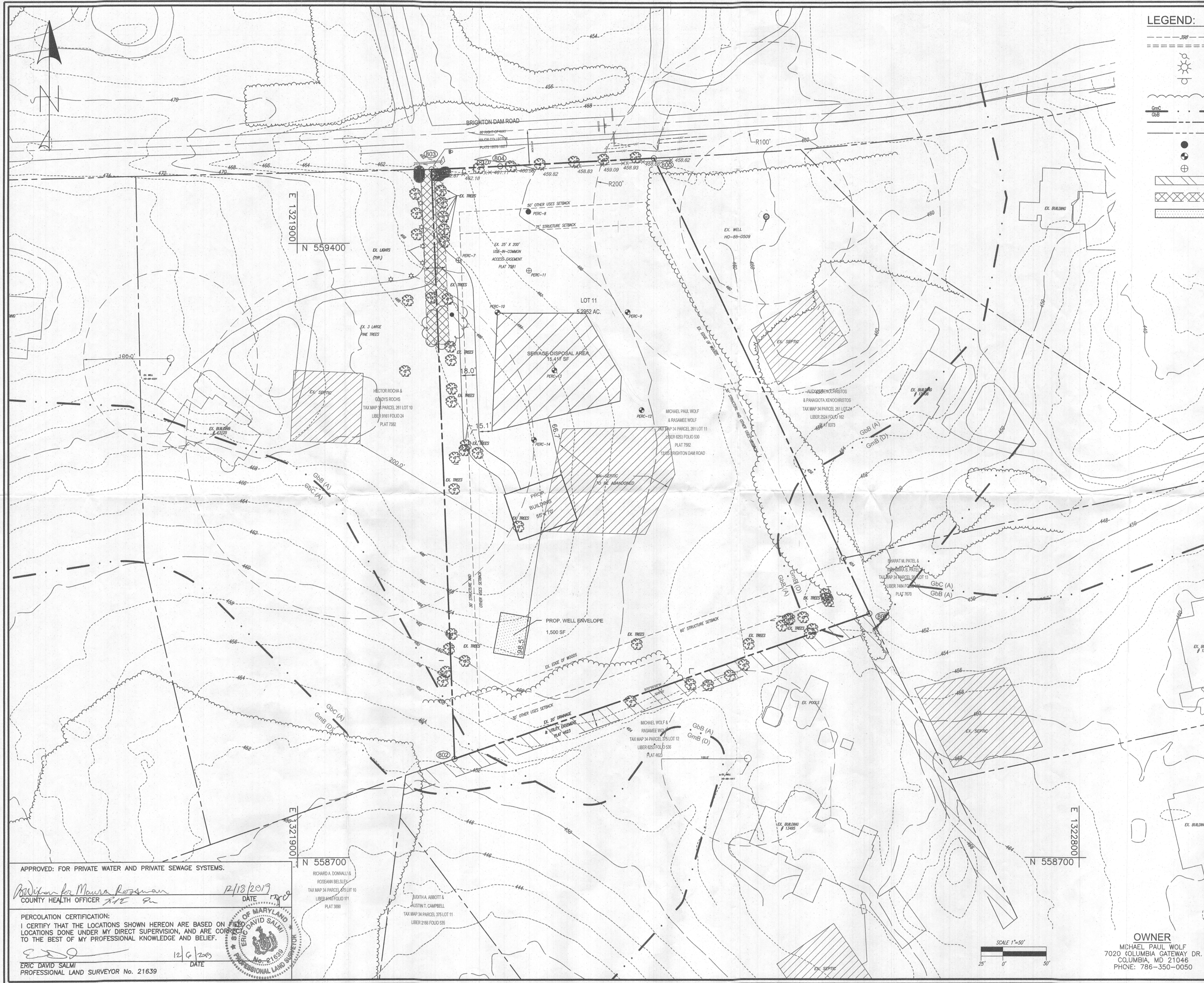
COUNTY HEALTH OFFICER [Signature] DATE 11/5/21

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] DATE 10/25/2021
ERIC DAVID SALMI
PROFESSIONAL LAND SURVEYOR No. 21639

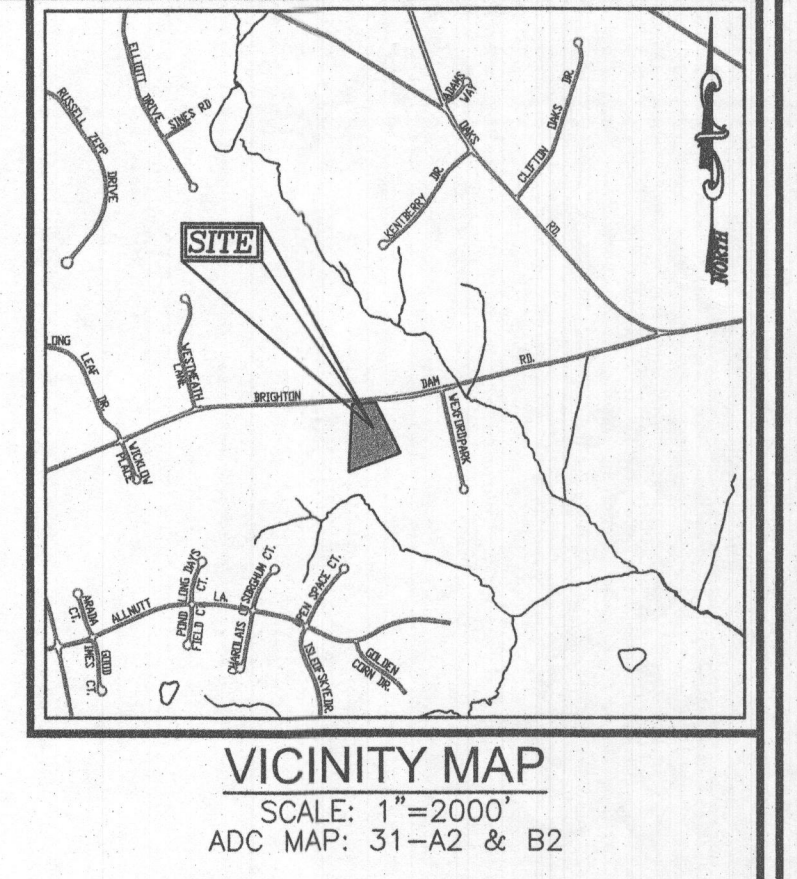


OWNER
JOHNATHAN STUDDARD
2913 CHESTNUT HILL DRIVE
ELLICOTT CITY, MD 21043
PHONE: (786) 350-0050



LEGEND:

- EXISTING CONTOUR
- EXISTING CURB AND GUTTER
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING SIGN
- EXISTING TREELINE (FIELD LOCATED)
- SOILS TYPE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- FAILED PERC TEST LOCATION
- PASSED PERC TEST LOCATION
- PERC TEST NOT TESTED
- EX. 20' DRAINAGE & UTILITY EASEMENT PLAT # 4623
- EX. USE IN COMMON ACCESS EASEMENT PLAT # 7581
- PROP. WELL ZONE



- GENERAL NOTES**
- THE LOT SHOWN HEREIN COME 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.
 - ALL WELLS SHALL BE DRILLED PRIOR TO BUILDING PERMIT APPROVAL. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS UP HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
 - TOPOGRAPHY SHOWN IS AT TWO-FOOT CONTOUR INTERVALS AND IS TAKEN FROM HOWARD COUNTY G.S. ELEVATIONS FOR THE PERCOLATION TEST LOCATIONS ARE BASED ON FIELD RUN TOPOGRAPHY PERFORMED BY VOGEL ENGINEERING + TIMMONS GROUP, DATED OCTOBER 2019.
 - ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
 - MDE HAS APPROVED THE VARIANCE TO ALLOW THE PROPOSED SEPTIC SYSTEM TO BE UPGRADE OF THE NEIGHBORING WELL ON THE CONDITION BEST AVAILABLE TECHNOLOGY AND A LOW PRESSURE DOSING SYSTEM ARE INSTALLED.
 - EXISTING SEPTIC AND WELL INFORMATION OBTAINED FROM HOWARD COUNTY HEALTH DEPARTMENT RECORDS, DATED OCTOBER 2019.
 - THE BOUNDARY IS BASED ON A FIELD SURVEY PREPARED BY VOGEL ENGINEERING + TIMMONS GROUP, DATED OCTOBER 2019.
 - EXISTING WELL #HO-88-0509 HAS BEEN FIELD LOCATED BY VOGEL ENGINEERING + TIMMONS GROUP DATED OCTOBER 2019.

PURPOS NOTE
 THE PURPOSE OF THIS PERCOLATION CERTIFICATION PLAN IS TO RELOCATE THE PRIVATE SEWAGE AREA TO ACCOMMODATE THE PROPOSED HOUSE SITING AND TO ESTABLISH THE WELL BOX.

THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THIS AREA 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 AREA. RECONSTRUCTION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.

SOILS LEGEND
 HOWARD COUNTY SOILS MAP #XX

SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE
GmB	Gladstone loam, 3 to 8 percent slopes	A	0.28	NO
GmC	Gladstone loam, 8 to 15 percent slopes	A	0.28	NO
GmB	Glenville silt loam, 3 to 8 percent slopes	D	0.37	YES

SOILS 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.

NO.	REVISION	DATE

PERCOLATION CERTIFICATION PLAN
WATERFORD
 LOT 11
 13105 BRIGHTON DAM ROAD, CLARKSVILLE, MD 21029
Superseded by PC Signed
 TAX MAP 34 BLOCK 09 11/8/2021 ZONED RR-DEO
 5TH ELECTION DISTRICT 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
 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. 16193, EXPIRATION DATE: 08-27-2020.

DESIGN BY: RHV
 DRAWN BY: KG
 CHECKED BY: RHV
 DATE: NOVEMBER 2019
 SCALE: 1"=50'
 W.O. NO.: 44349

1 SHEET OF 1

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.

Signature for Maurya Rossman
 COUNTY HEALTH OFFICER
 DATE: 12/18/2019

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 of Eric David Salmi
 ERIC DAVID SALMI
 PROFESSIONAL LAND SURVEYOR No. 21639
 DATE: 12/18/2019

OWNER
 MICHAEL PAUL WOLF
 7020 COLUMBIA GATEWAY DR.
 COLUMBIA, MD 21046
 PHONE: 786-350-0050