



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____ A/P _____

AGENCY REVIEW: _____ DATE _____

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) Michael + Janine Ogden

DAYTIME PHONE 301-370-0660 CELL _____ FAX _____

MAILING ADDRESS 12257 Woodspurge Ct. Ellicott City MD 21042
STREET CITY/TOWN STATE ZIP

APPLICANT Wayne Watkins CLSI

DAYTIME PHONE 410-848-1790 CELL _____ FAX _____

MAILING ADDRESS 439 E. Main St Westminster MD 21157
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME 12257 Woodspurge Ct/Woodmark LOT NO. 12

PROPERTY ADDRESS 12257 Woodspurge Ct
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 22 GRID 6 PARCEL(S) 167 PROPOSED LOT SIZE 1.21Ac

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 PERG CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT.

Wayne Watkins
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

A/P _____

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H

REMARKS _____

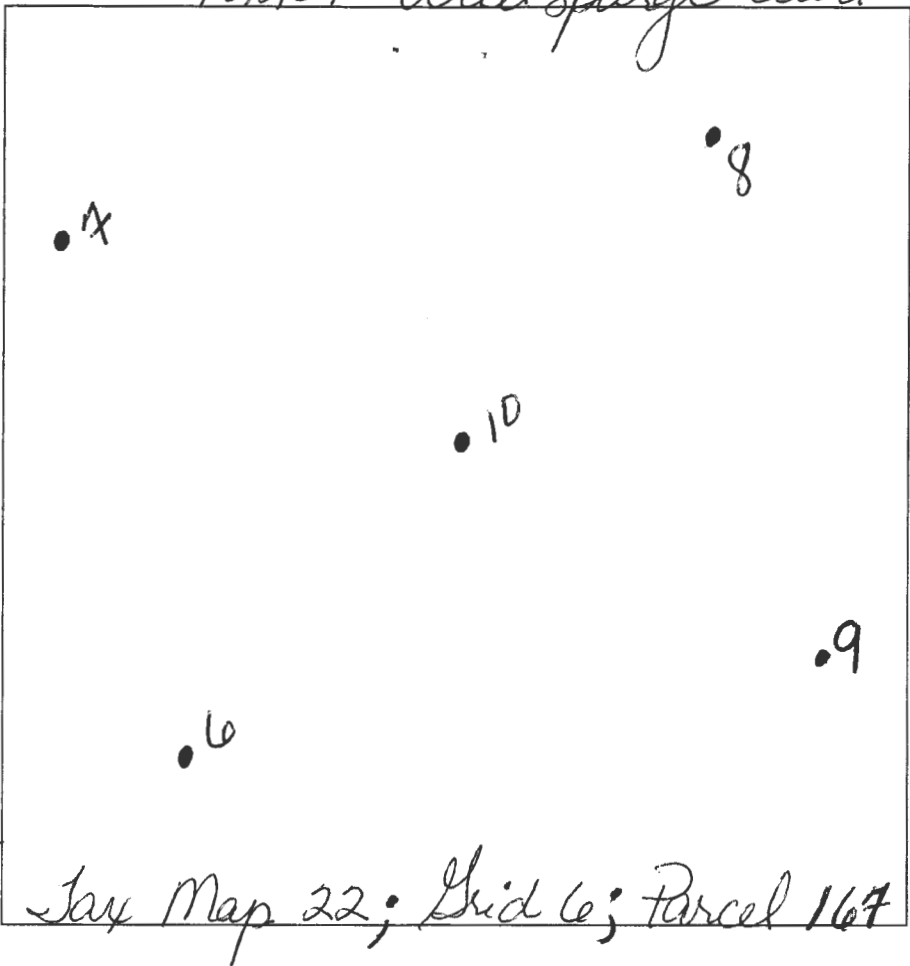
SANITARIAN _____ BACKHOE _____ OTHERS _____

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

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

13257 Woodspurge Court

A/P _____



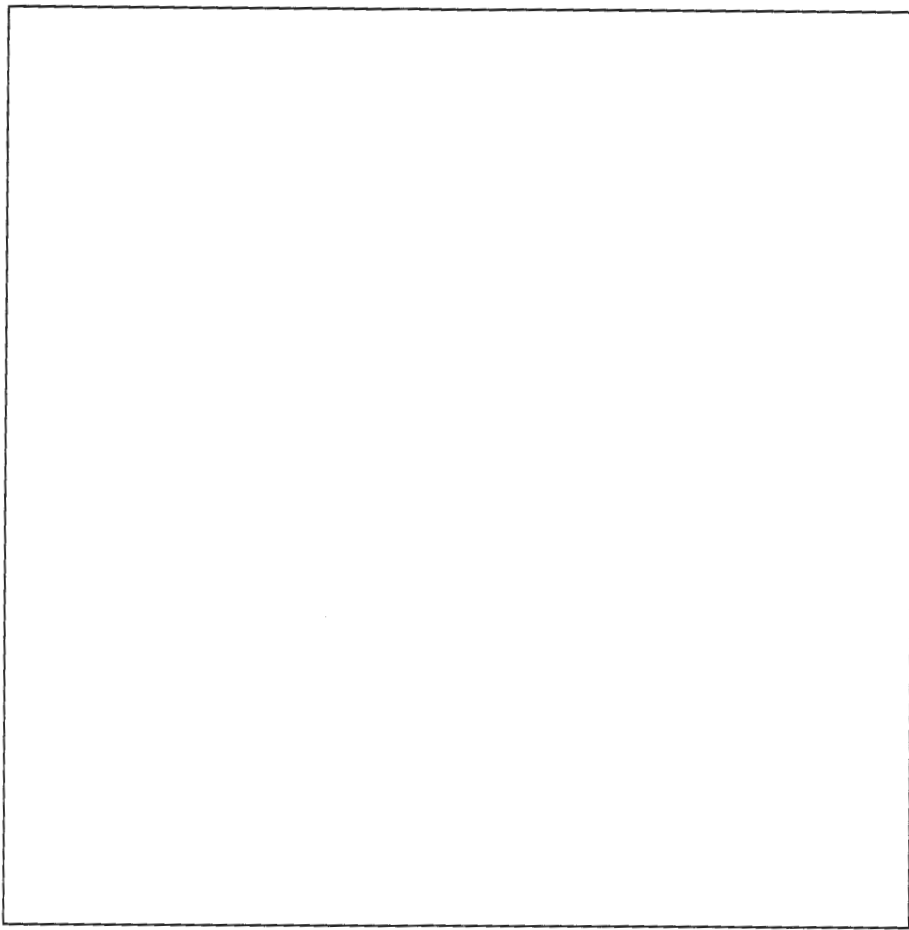
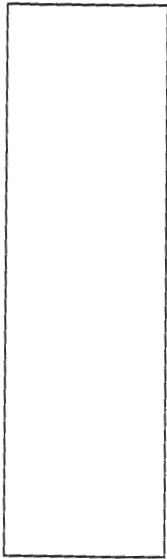
Perc #6
 Red Brown
 SL
 2.5
 Red Brown
 yellow
 SL
 5-10%
 Rx
 9
 Red Brown
 yellow
 SL
 Perc #7
 13
 Red Brown
 yellow
 SL
 2.5
 Red Brown
 yellow
 SL
 5-10%
 Rx
 Red Brown
 yellow
 SL
 10'
 F Sh 14'

Perc #8
 Red Brown
 yellow
 SL
 2.75
 Red Brown
 yellow
 SL
 15-20%
 Rx
 Perc #9
 4'
 Red Brown
 yellow
 SL
 2.5
 Red Brown
 yellow
 SL
 5-10%
 Rx
 ↓ # # H
 Perc 10
 Red Brown
 yellow
 SL
 2.75
 Red Brown
 yellow
 SL
 5-10%
 Rx
 ↓
 14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6-8-20	7	3/14	10:14	10:18	10:20	P	8min
6-8-20	6	3/13	10:21	10:32	10:38	P	6min
6-8-20	10	3/14	10:42	10:44	10:46	P	3min
6-8-20	8	3/14	11:00	11:07	11:18	P	11min
6-8-20	9	3/14	11:09	11:17	11:21	P	4min

REMARKS _____
 SANITARIAN DBenard BACKHOE _____ OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

A/P _____



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5-18-20	5	14					E
5-18-20	4	8 1/4	10:40	11:12	NO MOVEMENT		F

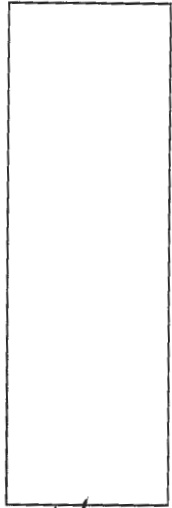
REMARKS: Freedom Septic
 SANITARIAN DBurnard BACKHOE _____ OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

#4

Yellow
Brown
Red
Sch



Red Brown
Yellow Sch @ 9'
16 1/2'



#5

Red Brown
Sch



@ 8'
Grey Sch
20% 30%
14'
30% - 40%

@ 10'
75% 14'
Rk



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

TO: CLSI Engineers and Surveyors
C/O Linda Alexander
Via E-mail: lalexander@clsimail.com

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

RE: 12257 Woodspurge Court
Tax Map 22, Parcel 167
Percolation Certification Testing Results

DATE: June 23, 2020

Percolation testing was conducted on the referenced property on June 8th 2020. The proposed for conducting these percolation tests was for an anticipated establishment of a sewage disposal area for house.

A total of five (5) test holes were evaluated and 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. This test will also be used to establish the septic 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 areas. 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

- Change initial well location to one closest to house/farthest from road -
- add note that Sodium chloride TDS samples will be taken when well is drilled - alt. locations ~~are~~ to be as far from roadside ~~side~~ as possible while still maintaining setbacks to OSDS.
- add note that new well must be drilled ^{ad connected} + dd well abandoned prior to Health approval of BP.?
- add note that OSDS plan must be submitted + approved and new ~~septic~~ system installed + approved with old system abandoned prior to Health approval of BP



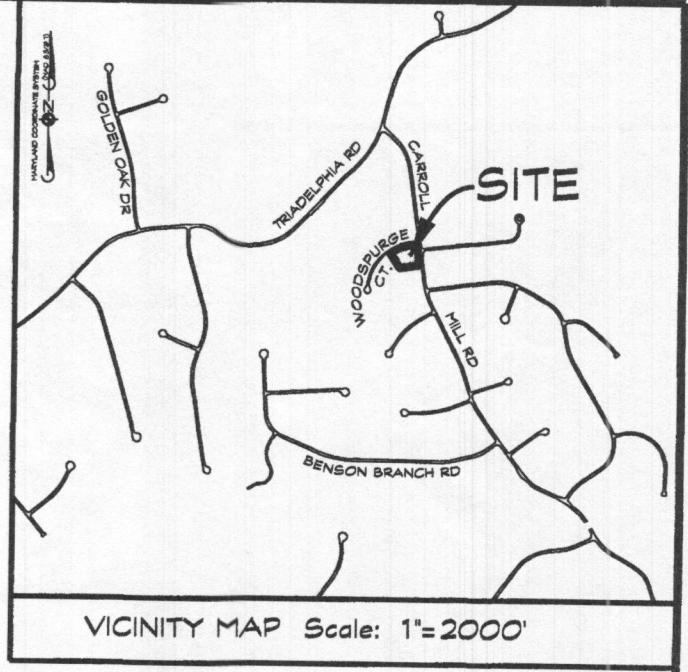
SEPTIC SYSTEM TRENCH DESIGN:

EXISTING HOUSE - 3 BEDROOMS
 PROPOSED ADDITION - 1 BEDROOM
 TOTAL BEDROOMS - 4

INITIAL SYSTEM:
 APPLICATION RATE = 0.8 GPD/SQ. FT.
 EFFECTIVE DEPTH IS 5'
 TRENCH WIDTH = 3'
 150 GAL x 4 BEDROOMS = 600 GAL/DAY
 600 GAL/DAY / 0.8 GAL./DAY/SQ. FT. = 750 SQ. FT.
 750 SQ. FT. / 3' = 250 L.F.
 250 L.F. x .36 = 90 L.F. OF DEEP TRENCH
 USE 2 - 45 L.F. OF TRENCH FOR EACH SYSTEM

REPLACEMENT SYSTEM #1 & #2:
 APPLICATION RATE = 1.2 GPD/SQ. FT.
 EFFECTIVE DEPTH IS 5'
 TRENCH WIDTH = 3'
 150 GAL x 4 BEDROOMS = 600 GAL/DAY
 600 GAL/DAY / 1.2 GAL./DAY/SQ. FT. = 500 SQ. FT.
 500 SQ. FT. / 3' = 167 L.F.
 167 L.F. x .36 = 60 L.F. OF DEEP TRENCH
 USE 1 - 60 L.F. OF TRENCH FOR EACH SYSTEM

REPLACEMENT SYSTEM #2:
 APPLICATION RATE = 1.2 GPD/SQ. FT.
 EFFECTIVE DEPTH IS 4'
 TRENCH WIDTH = 3'
 150 GAL x 4 BEDROOMS = 600 GAL/DAY
 600 GAL/DAY / 1.2 GAL./DAY/SQ. FT. = 500 SQ. FT.
 500 SQ. FT. / 3' = 167 L.F.
 167 L.F. x .48 = 81 L.F. OF DEEP TRENCH
 USE 2 - 41 L.F. OF TRENCH FOR EACH SYSTEM



GENERAL NOTES

- CURRENT TITLE REFERENCE:
 OWNER: MICHAEL & JANINE OGDEN
 DEED REFERENCE: L 16546, F. 282
 DATE: NOVEMBER 10, 2015
 GRANTOR: MARIE S. CRAGG
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THE TOPOGRAPHY SHOWN HEREON IS BASED ON HOWARD COUNTY 200 SCALE TOPO MAPS AND VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY. TOPOGRAPHY OF THE SEWAGE DISPOSAL AREA WAS FIELD VERIFIED BY CLSI.
- EXISTING WELLS AND/OR SEWER EASEMENTS WITHIN 100' OF THE LOT HAVES BEEN SHOWN. THERE ARE NO WELLS 200' DOWN GRADIENT OF THE SEPTIC EASEMENT AREA SHOWN.
- ANY CHANGES TO THE PRIVATE SEWER EASEMENT AND/OR ALTERNATIVE WELL LOCATION SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THE EXISTING SEPTIC SYSTEM LOCATION IS APPROXIMATE AND TAKEN FROM HEALTH DEPARTMENT INFORMATION. THE SEPTIC TANK LOCATION WAS FIELD LOCATED.
- ALL STORMWATER MANAGEMENT DEVICES WILL MEET HOWARD COUNTY SETBACKS TO ALL WELL SITES AND ON-SITE DISPOSAL SYSTEMS.
- THE BOUNDARY SHOWN HEREON IS FROM PLAT TITLED PART 'A' SECTION NO. 2 WOODMARK AND RECORDED IN PLAT BOOK 13, PG. 64. NO BOUNDARY SURVEYS WERE PERFORMED NOR CERTIFIED BY CLSI.
- ENTIRE LOT IS H8B SOIL.

DATA TABULATIONS

- ZONING DISTRICT: RR-DEO
- NUMBER OF BUILDING SITES: 1
- TOTAL AREA OF LOT: 1.2388 ACRES

PURPOSE NOTE:
 THE PURPOSE OF THIS PERCOLATION CERTIFICATION PLAN IS TO SHOW AN ADDITIONAL SEPTIC EASEMENT TO SUPPORT THE PROPOSED ADDITION. THE TOTAL BEDROOMS WILL BE 4 BEDROOMS.

LEGEND

- 560 EX 10 CONTOUR
- EX 2 CONTOUR
- STREAM BUFFER
- FAILED PERC TEST
- ⊙ PASSED PERC TEST
- △ EXISTING WELL LOCATION
- SOIL LINES
- DENOTES TOTAL PROPOSED SEPTIC RESERVE EASEMENT AREA FOR THE PURPOSE OF LOT 12, SINGLE FAMILY RESIDENCE
- EXISTING TREELINE

SOILS LEGEND

SOIL SYMBOL	SOIL SERIES	SOIL HSG	FRODIBLE (K-FACTOR .35)	HYDRIC
H8B	GLADSTONE LOAM	A	-	-

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
 HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER

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.

Mark A. Riddle 6/30/2020
 MARK A. RIDDE, PROFESSIONAL LAND SURVEYOR NO. 10899
 LICENSE EXPIRES 5/19/2022

THIS AREA DESIGNATES A PRIVATE SEWAGE AREA AS REQUIRED BY THE MARYLAND 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 EASEMENT ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THIS EASEMENT 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. RECORDATION OF THE MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

OWNER/DEVELOPER
 MICHAEL & JANINE OGDEN
 12257 WOODSPURGE COURT
 ELICOTT CITY, MD 21042

PERCOLATION CERTIFICATION PLAN
OGDEN PROPERTY

ALSO KNOWN AS 12257 WOODSPURGE COURT
 LOT 12, BLOCK B
 PART A, SECTION 2
 WOODMARK
 PLAT BOOK 13, PAGE 64
 LIBER 16546, FOLIO 282
 TAX MAP: 22 * BLOCK: 6 * PARCEL: 167
 3rd ELECTION DISTRICT * HOWARD COUNTY, MD

Mark A. Riddle
 Prof. Land Surveyor, Reg No. 10899
 My License Expires May 19, 2022

439 East Main Street Westminster, MD 21157-5539
 (410) 846-1790 FAX (410) 846-1791

CLSI
 Civil Engineering & Environmental Consultants
 www.clsi-civileng.com

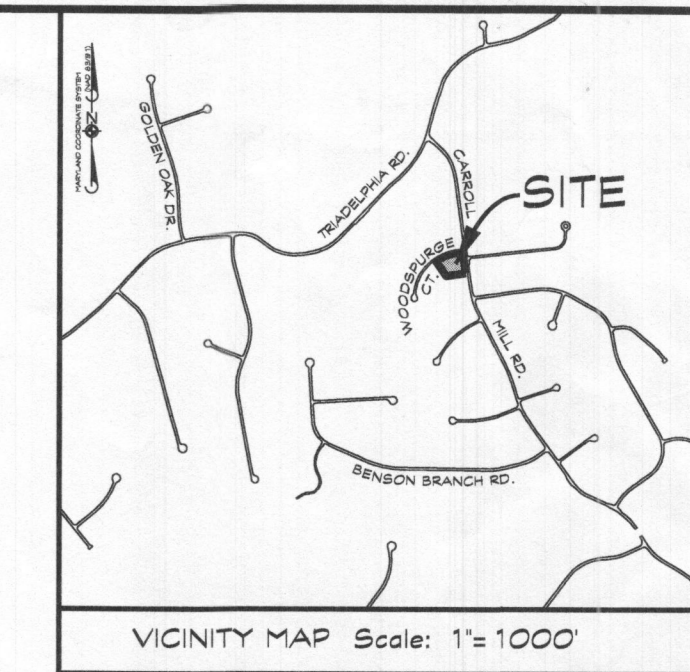
Date	Revisions	Drawn By:
5/26/2020	REVISED PROPOSED SEPTIC AREA DUE TO FAILED PERC IN BACK YARD	LDA
		Designed By: LDA
		Reviewed By: MAR
		Date: MARCH, 2020
		Scale: 1" = 30'
		Job No.: 2020010
		Sheet: 1 OF 1

SEPTIC SYSTEM TRENCH DESIGN:

EXISTING HOUSE - 3 BEDROOMS
 PROPOSED ADDITION - 1 BEDROOMS
 TOTAL BEDROOMS - 4

INITIAL SYSTEM & REPLACEMENTS 1 & 2 (ASSUMED):

APPLICATION RATE = 1.2 GPD/SQ. FT. (ASSUMED)
 150 GAL x 4 BEDROOMS = 600 GAL/DAY
 600 GAL/DAY / 1.2 GAL./DAY/SQ. FT. = 500 SQ. FT.
 500 SQ. FT. / 3 = 166.67 L.F.
 167 L.F. x 0.50 = 83.50 USE 84 L.F. OF DEEP TRENCH



PLAN
 SCALE: 1"= 30'

GENERAL NOTES

- CURRENT TITLE REFERENCE:
 OWNER: MICHAEL & JANINE OGDEN
 DEED REFERENCE: L. 16546, F. 282
 DATE: NOVEMBER 10, 2015
 GRANTOR: JAMES CRAIG, JR.
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- EXISTING WELLS AND/OR SEWER EASEMENTS WITHIN 100' OF THE LOT LINES HAVE BEEN SHOWN. THERE ARE NO WELLS 200' DOWN GRADIENT OF THE SEPTIC EASEMENT AREA SHOWN. ANY CHANGES TO THE PRIVATE SEWER EASEMENT AND/OR ALTERNATIVE WELL LOCATION SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THE EXISTING SEPTIC SYSTEM LOCATION IS APPROXIMATE AND TAKEN FROM HEALTH DEPARTMENT INFORMATION. THE SEPTIC TANK LOCATION WAS FIELD LOCATED.
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- ENTIRE LOT IS H&B SOIL.

DATA TABULATIONS

- ZONING DISTRICT: RR-OEO
- NUMBER OF BUILDING SITES: 1
- TOTAL AREA OF LOT: 1.2381 ACRES

PURPOSE NOTE:
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PERCOLATION TEST RESULTS, _____

PERCOLATION CERTIFICATION PLAN
OGDEN PROPERTY
 ALSO KNOWN AS 12257 WOODSPURGE COURT
 WOODMARK
 LIBER 16546, FOLIO 282
 TAX MAP: 22 * BLOCK: 6 * PARCEL: 167
 3rd ELECTION DISTRICT * HOWARD COUNTY, MD



Mark A. Riddle
 Prof. Land Surveyor Reg. No. 10899
 My License Expires May 19, 2020
 439 East Main Street Westminster, MD 21157-5539
 (410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By: BM1
		Designed By: LSD
		Reviewed By:
		Date: MARCH, 2020
		Scale: 1" = 30'
		Job No.: 2020010
		Sheet: 1 OF 1

LEGEND

- 560 EX 10 CONTOUR
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- STREAM BUFFER
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- PASSED PERC TEST
- △ EXISTING WELL LOCATION
- SOIL LINES
- DENOTES - TOTAL PROPOSED SEPTIC RESERVE EASEMENT AREA = XXXX S.F. FOR THE PURPOSE OF LOT 12, SINGLE FAMILY RESIDENCE
- EXISTING TREELINE

SOILS LEGEND

SOIL SYMBOL	SOIL SERIES	SOIL HSG	ERODIBLE (K-FACTOR x35)	HYDRIC
H&B	GLADSTONE LOAM	A	-	-

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
 HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER

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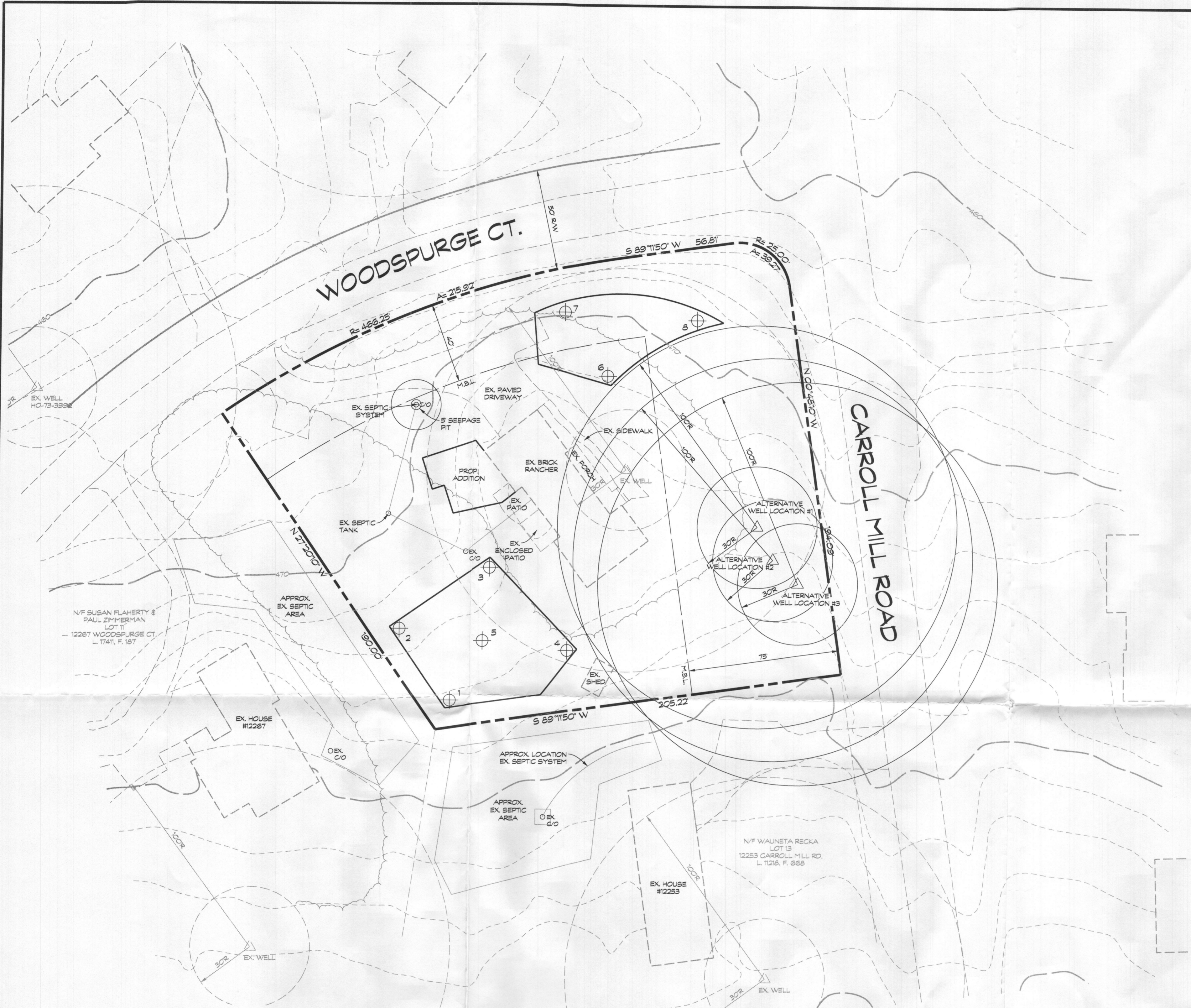
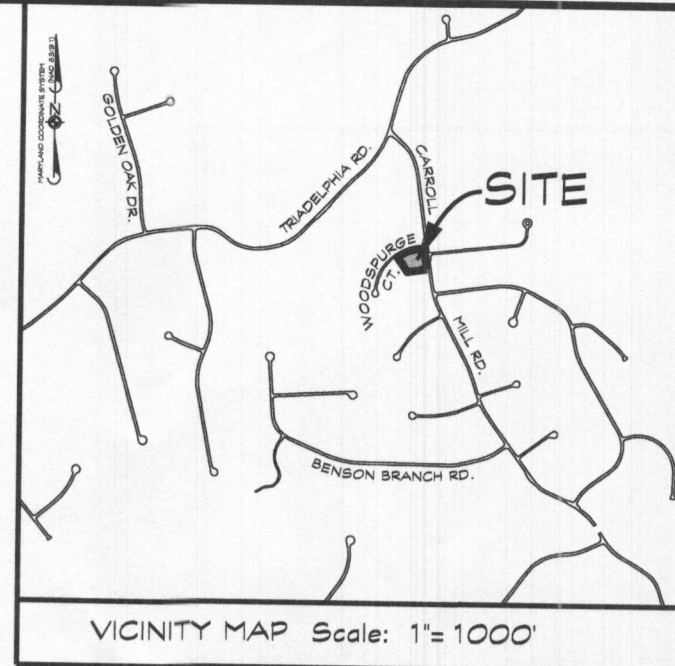
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OWNER/DEVELOPER
 MICHAEL & JANINE OGDEN
 12257 WOODSPURGE COURT
 ELLICOTT CITY, MD 21042

SEPTIC SYSTEM TRENCH DESIGN:

EXISTING HOUSE - 3 BEDROOMS
 PROPOSED ADDITION - 1 BEDROOMS
 TOTAL BEDROOMS - 4
 INITIAL SYSTEM & REPLACEMENTS 1 & 2 (ASSUMED):
 APPLICATION RATE = 1.2 GPD/SQ. FT. (ASSUMED)
 150 GAL. x 4 BEDROOMS = 600 GAL/DAY
 600 GAL/DAY / 1.2 GAL./DAY/SQ. FT. = 500 SQ. FT.
 500 SQ. FT. / 3 = 166.67 L.F.
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PLAN
SCALE: 1"=30'

GENERAL NOTES

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DATA TABULATIONS

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- NUMBER OF BUILDING SITES: 1
- TOTAL AREA OF LOT: 1.238+ACRES

PURPOSE NOTE:
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LEGEND

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- STREAM BUFFER
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- △ EXISTING WELL LOCATION
- GsC GsB SOIL LINES
- ▨ DENOTES TOTAL PROPOSED SEPTIC RESERVE EASEMENT AREA = XXXX S.F. FOR THE PURPOSE OF LOT 12, SINGLE FAMILY RESIDENCE
- EXISTING TREELINE

SOILS LEGEND

SOIL SYMBOL	SOIL SERIES	SOIL HSG	ERODIBLE (K-FACTOR >35)	HYDRIC
H&B	GLADSTONE LOAM	A	-	-

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
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HOWARD COUNTY HEALTH OFFICER

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OWNER/DEVELOPER
 MICHAEL & JANINE OGDEN
 12257 WOODSPURGE COURT
 ELLICOTT CITY, MD 21042

PERCOLATION TEST RESULTS, _____

PERCOLATION CERTIFICATION PLAN
OGDEN PROPERTY
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 3rd ELECTION DISTRICT * HOWARD COUNTY, MD

CLSI
 Engineers • Surveyors
 www.clsi-civileng.com
 Land Planning & Environmental Consultant

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Date	Revisions	Drawn By: BM
		Designed By: LGO
		Reviewed By:
		Date: MARCH, 2020
		Scale: 1" = 30'
		Job No.: 2020010
		Sheet: 1 OF 1

