

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 2060 WOODBINE RD WOODBINE 21797-0000

TAX ACCOUNT # 310136 TAX MAP 7 GRID 15 PARCEL 362 LOT NO. PROPOSED LOT SIZE (ACRES)

ZONING CATEGORY RR-DEO TIER

PROPERTY OWNER(S) CHAD & CORY ZIRK

DAYTIME PHONE CELL 410-916-4803 EMAIL czwv50@aol.com

MAILING ADDRESS 2070 WOODBINE RD WOODBINE 21797-0000

APPLICANT CHAD & CORY ZIRK RELATIONSHIP TO OWNER: BUILDER

DAYTIME PHONE CELL 410-916-4803 EMAIL czwv50@aol.com

MAILING ADDRESS 2070 WOODBINE RD WOODBINE 21797-0000

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):

PROPERTY:

- SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: 1 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 4 or 5 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.

SIGNATURE OF APPLICANT DATE 10/25/18

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

December 3, 2018

TO: Chad and Cory Zirk, Owners/Applicants
2070 Woodbine Road, Woodbine, MD 21797

RE: 2060 Woodbine Road, Percolation test results and data

Dear Chad and Cory Kirk,

Percolation tests were conducted, as scheduled, at 2060 Woodbine Road on November 20, 2018. These tests were conducted to establish a sewage disposal area (SDA) on the east end of the property in support of an anticipated building permit proposal to construct a residence there. Pits were dug at 10 locations, 5 locations as planned and staked and five locations off plan. Soil profiles were described at each location and tests for percolation rate were conducted at 5 of the 6 soil profiles that PASS.

Four locations FAIL due to rock content greater than 50 percent. The failing profiles are staked locations 1001, 1002, and 1004, added location 1006.

Staked location 1003 and added locations 1007 and 1008 PASS and form a boundary to the very rocky soils toward the northeast. Location 1000 and added locations 1009 and 1010 PASS. The soil profiles have much less rock content and there is a moderate percolation rate.

Locations of percolation tests that 'PASS' are used to define the soils that are suitable for inclusion in an SDA proposed on the Percolation Certification Plan. The results and suitable areas for wastewater discharge may be certified by the Approving Authority's signature of the Percolation Certification Plan.

After the Percolation Certification Plan is signed by the Bureau of Environmental Health Director, a well permit may be issued to establish a drinking water well on the property.

The construction and yield of the well must be approved for approval of a subsequent building permit. Approval of an onsite sewage disposal system plan is also required for the Health Department to approve a construction of a new residence.

If you have questions related to these comments, you may reply to me via email, rbricker@howardcountymd.gov , or call my desk, 410-313-2691.

Respectfully,

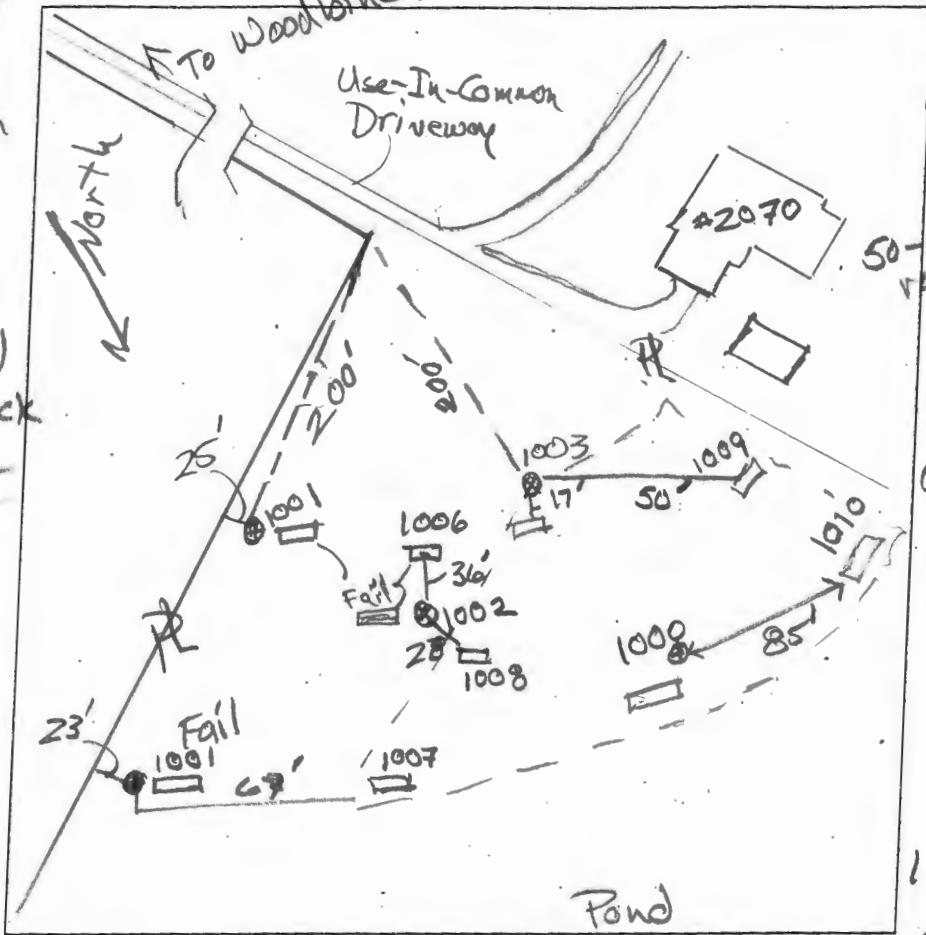


Robert Bricker, CPSS, REHS/RS, L.E.H.S.
Environmental Sanitarian II
Well and Septic Program

Enclosures: Percolation Test Application and Field Worksheets
Copy: file

2060 Woodbine Rd.

AP 564099



1004
0.4' dk grey-brn chlsil
1.4' red-yel vchsil
2.5' red-yel vch & fl sil
50-60% rock

1001
dk brn sil
brn chsil
2 vlsbk

1.7' 10 roots
yel-red & red-brn vch & fl sil
50-60% rock

6' red-yel & pale yellow chsil
many roots

8' yel-red & red-brn vch & fl sil
50-60% rock

9' +
1007
brn chsil
2 vlsbk

0.8' yel-brn & red-yel chsil
1 vlsbk

1.6'
red-yel & lt. brn sil
2 vlsbk
few channers

1006
0.4' grey brn chlsil
1.4' red-brn vchsil
4' red-brn & red-yel vch & fl sil
4' yel-red & red-brn vch & fl sil
6.5' dk red-brn chsil
105-75% rock

1000
dk brn sil
brn chsil
2 vlsbk
brn-yel sil
2 vlsbk
few channers

2'
red; yellow & red-yel sil
thin platy
few channers

8'
yel-red chsil
thin platy
11' yel-red & pale yellow chsil
thin platy
12.2' - dry

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
11/20/18	1004	1.4'	Visual	> 50% rock			F
11/20/18	1006	1.4'	Visual	> 50% rock			F
11/20/18	1000	4.4' / 12.2'	10:28	10:30	10:33	3	P
11/20/18	1001	1.4'	Visual	> 50% rock			F
11/20/18	1007	5' / 12'	11:02	11:06	11:13	7	P

REMARKS: ● Stake, numbered □ soil pit, dug ; skipped #1005

SANITARIAN: R. Bricker BACKHOE: Chuck Zepp OTHERS: JASON

TEST HOLES USED IN SDA: 1000 & 1007 AVG. PERC TIME: _____ SQ. FT/BR: _____

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

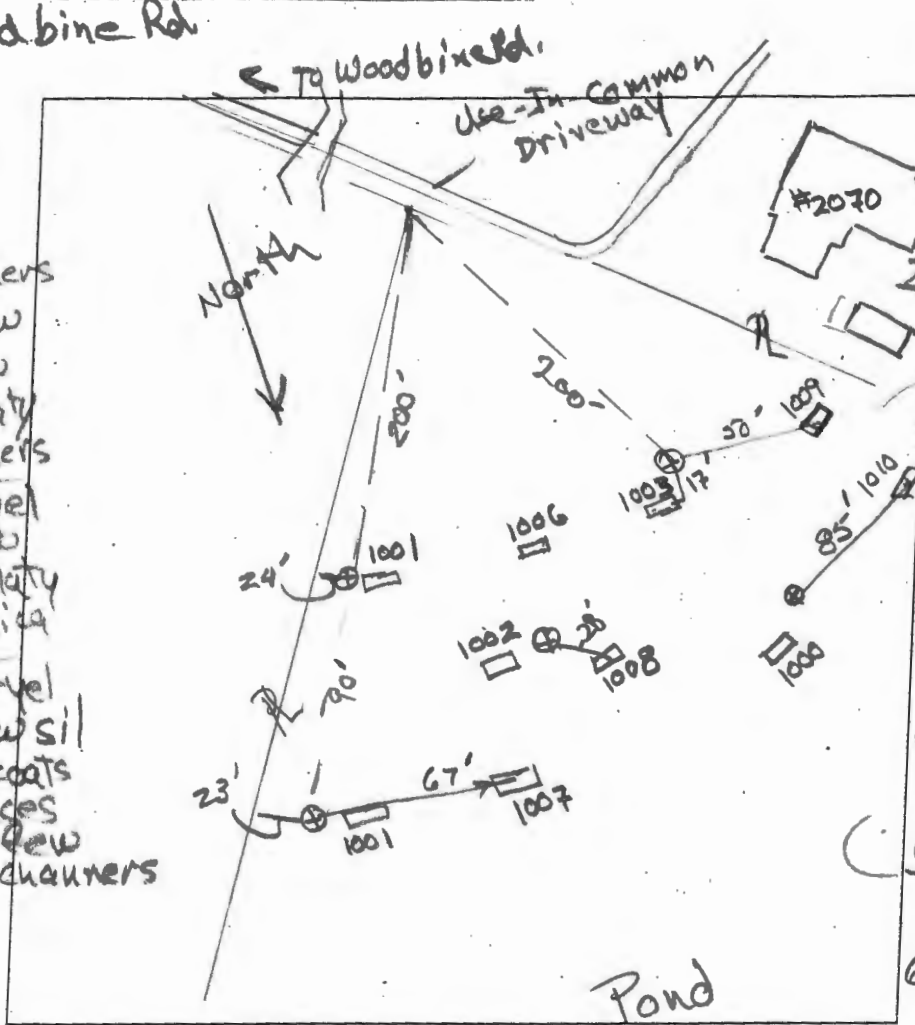
0.5 same w/ common black coats on ped faces & flags 12'

2060 Woodbine Rd.

Ⓞ 564049

1010
brn sil
2 v. sbk
few channers
1.3
red-yellow
pale yellow
sil, thin platy
few channers
2.5
red, red-yel
& pale yellow
chsil, thin platy
many v. & mica
9'
yel-red, red-yel
& pale yellow sil
many black coats
on red faces
thin platy, few
channers
12.3
dry

1008
grey-brn
chsil, Ⓞm
brn chsil
Ⓞm
0.8
yel-red &
red-brn chsil
yellow, red
& red-yel
chsil & v. sbk
3.5
red, red-yel
& red-brn
chsil, platy
35-45% rock
8.5
red, red-yel
& yellow
chsil, platy
12



1001
grey-brn chsil
Ⓞm
brn chsil
2 v. sbk
2.3
red, yel-red
& pale yellow
chsil
3.5
red-brn,
yel-red & red-yel
vch & sil
50-60% rock

1003
brn chsil, Ⓞm
0.6
brn chsil
2 v. sbk
1.6
red-brn, red,
yel-red & red-yel
chsil, platy
6'
red, yellow
& yellow red
vch sil, platy
35-45% rock
9'
red, yel-red
& red-yel
chsil

1009
brn chsil, 2 v. sbk
0.7
red-brn &
red-yel sil, 1 v. sbk
few channers
2.3
red, red-yel
& yel-red
thin platy
many v. & mica
few channers
10.5
yellow & red-yel
sil, thin platy
many v. & mica
few black coats
on red faces
13' few channers

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
11/20/12	1010	5.3' 12.3'	11:29	11:32	11:37	5 P	
11/20/12	1008	12'	Visual	2'	to 8' sidewall 0.8 gpd / ft ²	P	
11/20/12	1002	3.5'	Visual		> 50% rock	F	
11/20	1003	4.3' 12'	12:20	12:24	12:30	6 P	
11/20	1009	4.3' 13'	12:36	12:41	12:50	9 P	

skipped #1005

REMARKS Ⓞ Stake, numbered; □ soil pit, dug

SANITARIAN R. Bricker BACKHOE Chuck Zepp OTHERS Jason

TEST HOLES USED IN SDA 1003, 1008, 1009, 1010 AVG. PERC TIME _____ SQ. FT/BR _____

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



HOWARD COUNTY HEALTH DEPARTMENT

64049

DATE
10/26/18

AS

Received From

PHONE #

For

CASH

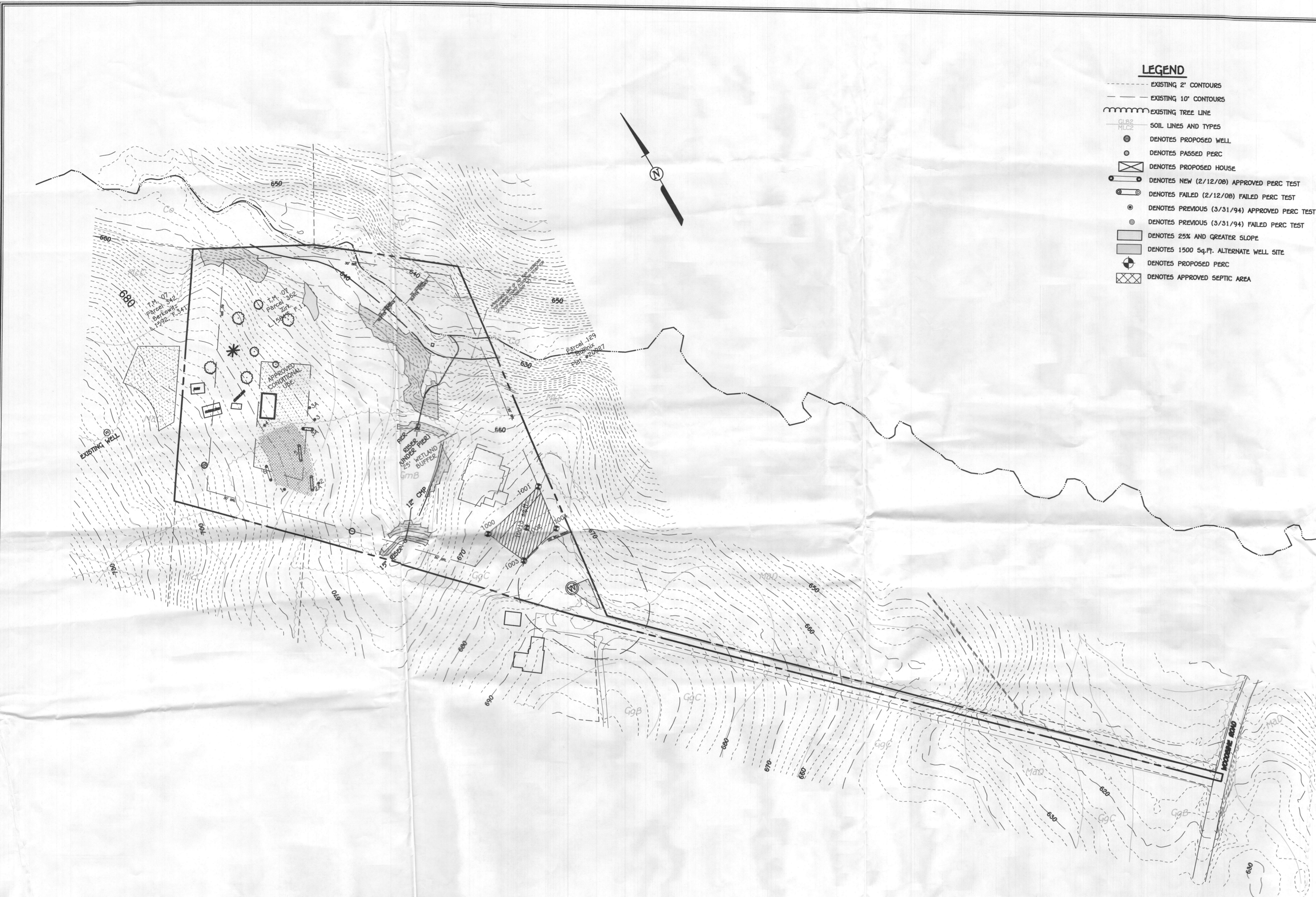
CHECK

NO.

Dollars

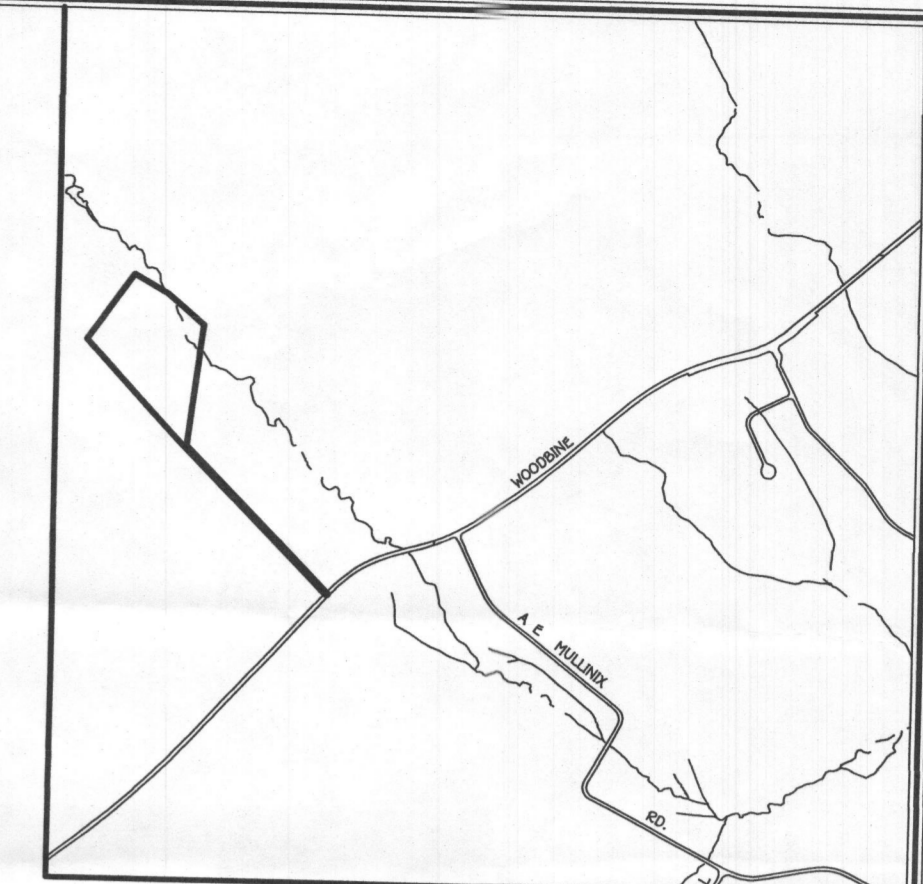
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Received By



LEGEND

- EXISTING 2' CONTOURS
- - - EXISTING 10' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- ⊙ DENOTES PROPOSED WELL
- DENOTES PASSED PERC
- ⊠ DENOTES PROPOSED HOUSE
- ⊙ DENOTES NEW (2/12/08) APPROVED PERC TEST
- ⊙ DENOTES FAILED (2/12/08) FAILED PERC TEST
- ⊙ DENOTES PREVIOUS (3/31/94) APPROVED PERC TEST
- ⊙ DENOTES PREVIOUS (3/31/94) FAILED PERC TEST
- DENOTES 25% AND GREATER SLOPE
- ⊙ DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE
- ⊙ DENOTES PROPOSED PERC
- ⊠ DENOTES APPROVED SEPTIC AREA



VICINITY MAP
SCALE : 1" = 1200'

GENERAL NOTES:

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE 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 A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
6. ALL WELLS SHALL BE DRILLED PRIOR TO BUILDING PERMIT.
7. TOPOGRAPHY SHOWN IS FIELD RUN BY SHAMBERG & LANE, INC AND SUPPLEMENTED FROM HOWARD COUNTY GIS TOPOGRAPHY 2' CONTOUR INTERVAL.
8. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
9. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
10. DEED REFERENCE LIBER 15017 FOLIO 110

THE PURPOSE OF THIS PLAN IS TO REVISE THE SEPTIC AND WELL LOCATION FOR THE NEW LOCATION OF THE HOUSE.

SOILS LEGEND

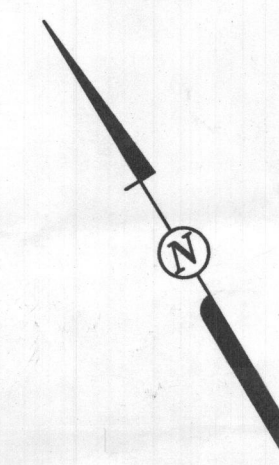
SOIL	NAME	CLASS
Co	Codorus and Hatboro silt loams, 0 to 3 percent slopes	C
GgB	Glenelig loam, 3 to 8 percent slopes	B
GgC	Glenelig loam, 8 to 15 percent slopes	B
GmB	Glenville silt loam, 3 to 8 percent slopes	C
MaC	Manor loam, 8 to 15 percent slopes	B
MaD	Manor loam, 15 to 25 percent slopes	B
McC	Manor-channery loam, 8 to 15 percent slopes	B
MkF	Manor-Brinklow complex, 25 to 65 percent slopes, very rocky	B

PERC APPLICATION PLAT
2060 WOODBINE ROAD

TAX MAP #7 ZONED:RC-DEO PARCEL: 362
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=100' DATE: OCTOBER 25, 2018

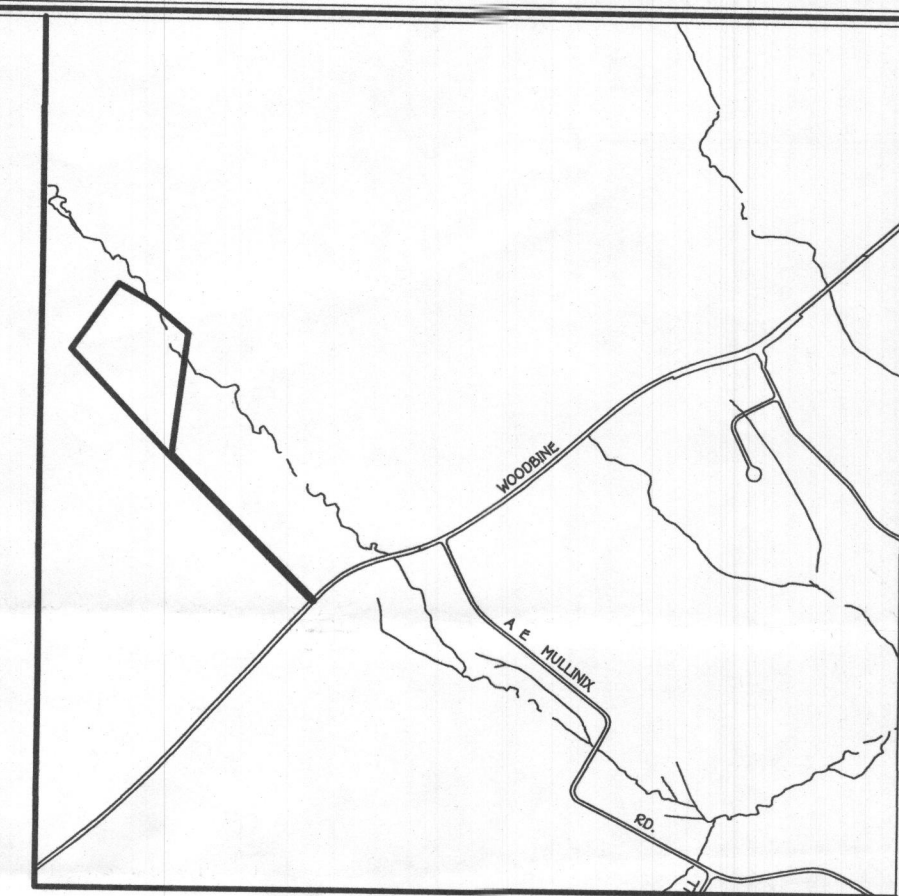
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CONTINENTAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2895

CHAD A ZIRK
2070 WOODBINE RD
WOODBINE, MD 21797



LEGEND

- EXISTING 2' CONTOURS
- - - EXISTING 10' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- ⊙ DENOTES PROPOSED WELL
- DENOTES PASSED PERC
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5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
6. ALL WELLS SHALL BE DRILLED PRIOR TO BUILDING PERMIT.
7. TOPOGRAPHY SHOWN IS FIELD RUN BY SHANABERGER & LANE, INC AND SUPPLEMENTED FROM HOWARD COUNTY GIS TOPOGRAPHY 2' CONTOUR INTERVAL.
8. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
9. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
10. DEED REFERENCE LIBER 15817 FOLD 110



THE PURPOSE OF THIS PLAN IS TO REVISE THE SEPTIC AND WELL LOCATION FOR THE NEW LOCATION OF THE HOUSE.

SOILS LEGEND

SOIL	NAME	CLASS
Co	Codorus and Hatboro silt loams, 0 to 3 percent slopes	C
GgB	Glenelg loam, 3 to 8 percent slopes	B
GgC	Glenelg loam, 8 to 15 percent slopes	B
GmB	Glenville silt loam, 3 to 8 percent slopes	C
M4C	Manor loam, 8 to 15 percent slopes	B
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FISHER, COLLINS & CARTER, INC.
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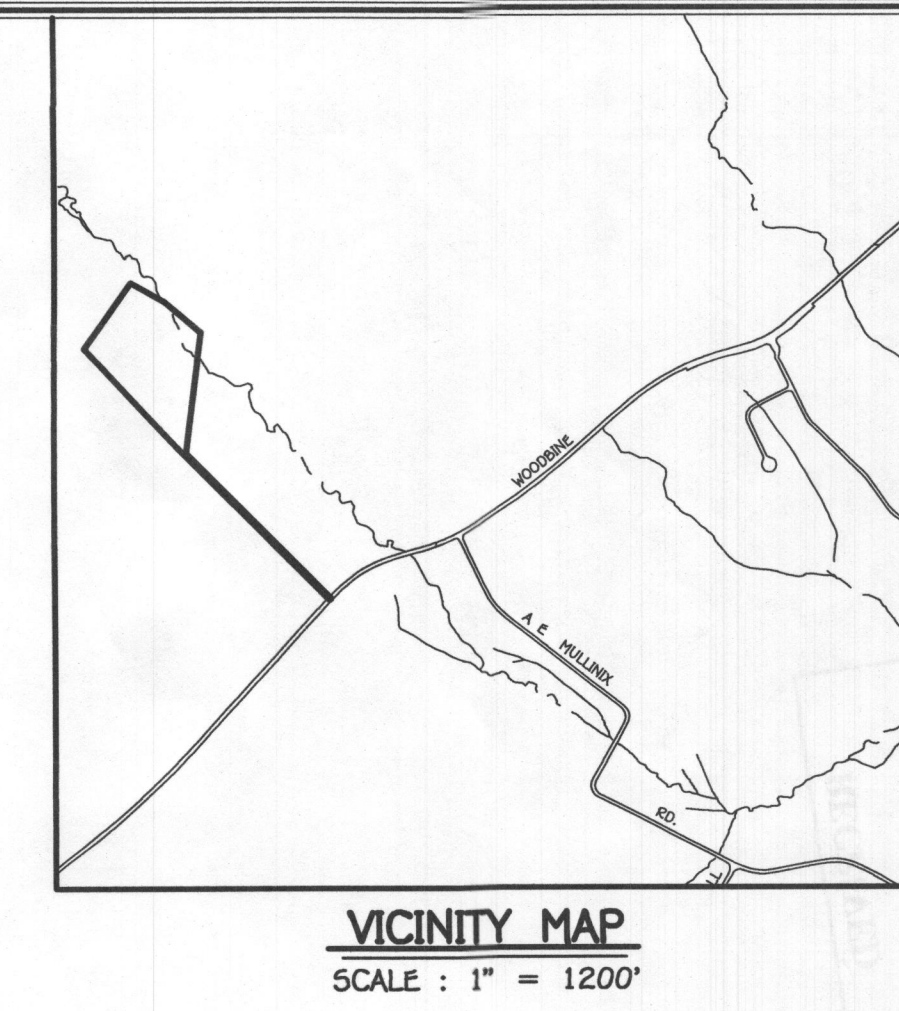
OWNER
CHAD A ZIRK
2070 WOODBINE RD
WOODBINE, MD 21797

PERC APPLICATION PLAT
2060 WOODBINE ROAD

TAX MAP #7 ZONED: RC-DEO PARCEL: 362
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=100' DATE: OCTOBER 25, 2018



- LEGEND**
- EXISTING 2' CONTOURS
 - - - EXISTING 10' CONTOURS
 - ~~~~~ EXISTING TREE LINE
 - GgB, GgC SOIL LINES AND TYPES
 - ⊙ DENOTES PROPOSED WELL
 - DENOTES PASSED PERC
 - ⊗ DENOTES FAILED PERC
 - ⊠ DENOTES PROPOSED HOUSE
 - ⊡ DENOTES (2/12/08) PASSED PERC TEST
 - ⊡ DENOTES (2/12/08) FAILED PERC TEST
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 - DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE
 - ⊠ DENOTES APPROVED SEWAGE DISPOSAL AREA TO BE ABANDONED



GENERAL NOTES:

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4. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
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9. ANY CHANGES TO A PRIVATE SEWERAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
10. DEED REFERENCE LIBER 15017 FOLIO 110
11. THE APPROVED CONDITIONAL USE AREA IS FOR THE PURPOSE OF STORING HIS HIS COMPANY TRUCKS AND EQUIPMENT.
12. THE APPROVED SEWAGE DISPOSAL AREA WHERE THE APPROVED CONDITIONAL USE IS LOCATED WILL BE ABANDONED.
13. AFTER INSTALLATION, THE WELL MUST BE PROTECTED DURING CONSTRUCTION ACTIVITIES. HIGHLY VISIBLE NETTED FENCE IS RECOMMENDED.

PERC 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.

Frank J. Manalansan II
Signature of Professional Land Surveyor
Frank J. Manalansan II, Professional Land Surveyor No. 21476 Expires 7/14/19

1/7/19
DATE

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

Maura Rossman
COUNTY HEALTH OFFICER

1/24/2019
DATE

THE PURPOSE OF THIS PLAN IS TO ABANDON THE EXISTING SEWAGE DISPOSAL AREA IN THE APPROVED CONDITIONAL USE AREA, PROPOSE A NEW SEWAGE DISPOSAL AREA AND PROPOSE WELL AREA IN SUPPORT OF AN ANTICIPATED BUILDING PERMIT PROPOSAL FOR A NEW RESIDENCE.

SOILS LEGEND

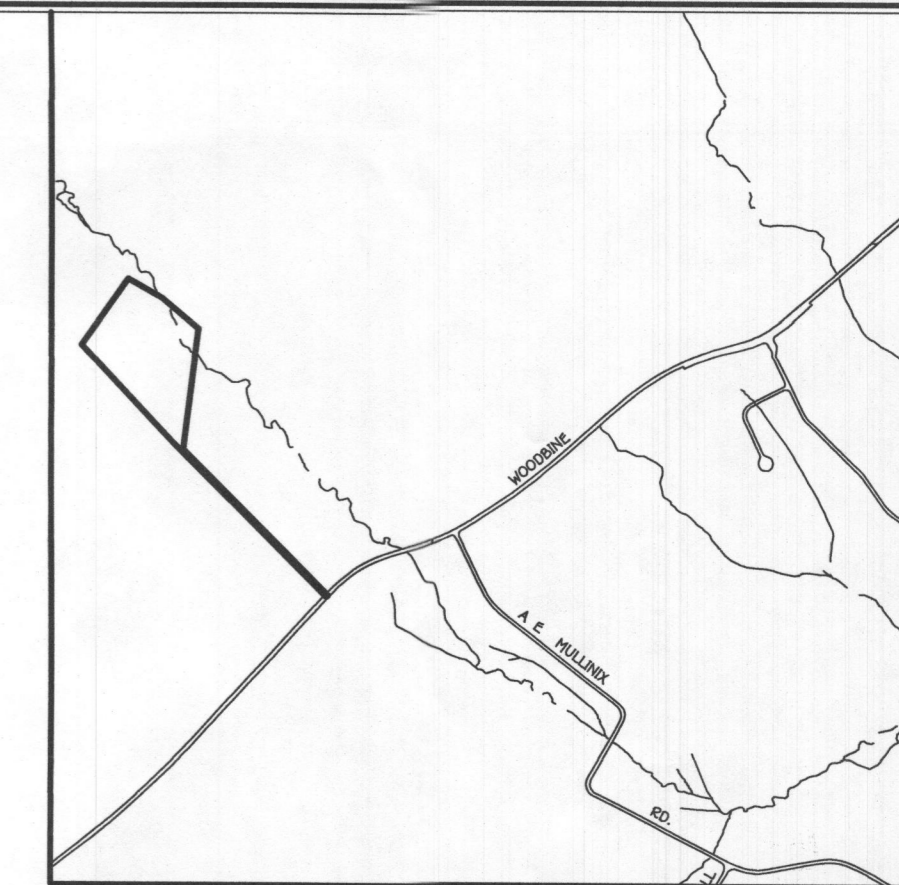
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McC	Mānor-chānnerly loam, 8 to 15 percent slopes	B
MkF	Mānor-Brinklow complex, 25 to 65 percent slopes, very rocky	B

PERC CERTIFICATION PLAT
2060 WOODBINE ROAD

TAX MAP #7 ZONED:RC-DEO PARCEL: 362
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=100' DATE: JANUARY 4, 2019



- LEGEND**
- EXISTING 2' CONTOURS
 - EXISTING 10' CONTOURS
 - EXISTING TREE LINE
 - SOIL LINES AND TYPES
 - ⊙ DENOTES PROPOSED WELL
 - ⊙ DENOTES PASSED PERC
 - ⊙ DENOTES FAILED PERC
 - ⊙ DENOTES PROPOSED HOUSE
 - ⊙ DENOTES (2/12/08) PASSED PERC TEST
 - ⊙ DENOTES (2/12/08) FAILED PERC TEST
 - ⊙ DENOTES (3/31/94) PASSED PERC TEST
 - ⊙ DENOTES (3/31/94) FAILED PERC TEST
 - DENOTES 25% AND GREATER SLOPE
 - DENOTES 1500 SQ.FT. ALTERNATE WELL SITE
 - DENOTES APPROVED SEWAGE DISPOSAL AREA TO BE ABANDONED



VICINITY MAP
SCALE: 1" = 1200'

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8. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
9. ANY CHANGES TO A PRIVATE SEWERAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
10. DEED REFERENCE LIBER 15817 FOLIO 110
11. THE APPROVED CONDITIONAL USE AREA IS FOR THE PURPOSE OF STORING HIS COMPANY TRUCKS AND EQUIPMENT.
12. THE APPROVED SEWAGE DISPOSAL AREA WHERE THE APPROVED CONDITIONAL USE IS LOCATED WILL BE ABANDONED.
13. AFTER INSTALLATION, THE WELL MUST BE PROTECTED DURING CONSTRUCTION ACTIVITIES. HIGHLY VISIBLE NETTED FENCE IS RECOMMENDED.

PERC CERTIFICATION
I certify that the locations shown on this plan are based on field locations done under my direct supervision and are correct to the best of my professional knowledge and belief.

Frank J. Manalansan II
Signature of Professional Land Surveyor
Frank J. Manalansan II, Professional Land Surveyor No. 21476 Expires 7/14/19

1/7/19
DATE

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

Benjamin for Maureen Rossman
COUNTY HEALTH OFFICER

1/22/2019
DATE

THE PURPOSE OF THIS PLAN IS TO ABANDON THE EXISTING SEWAGE DISPOSAL AREA IN THE APPROVED CONDITIONAL USE AREA, PROPOSED A NEW SEWAGE DISPOSAL AREA AND PROPOSE WELL AREA IN SUPPORT OF AN ANTICIPATED BUILDING PERMIT PROPOSAL FOR A NEW RESIDENCE.

SOILS LEGEND

SOIL	NAME	CLASS
Co	Codorus and Hatboro silt loams, 0 to 3 percent slopes	C
GgB	Glenelg loam, 3 to 8 percent slopes	B
GgC	Glenelg loam, 8 to 15 percent slopes	B
GmB	Glenville silt loam, 3 to 8 percent slopes	C
MaC	Manor loam, 8 to 15 percent slopes	B
MaD	Manor loam, 15 to 25 percent slopes	B
McC	Manor-channery loam, 8 to 15 percent slopes	B
MkF	Manor-Brinklow complex, 25 to 65 percent slopes, very rocky	B

ORANGE
CHAD A ZIRK
2070 WOODBINE RD
WOODBINE, MD 21797

PERC CERTIFICATION PLAT
2060 WOODBINE ROAD

TAX MAP #7 ZONED:RC-DEO PARCEL: 362
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=100' DATE: JANUARY 4, 2019

7C564049