



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

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

AGENCY REVIEW: _____ DATE _____

DO NOT WRITE ABOVE THIS LINE

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 unknown 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) Robert Williams

DAYTIME PHONE 410 465 5366 CELL _____ FAX _____

MAILING ADDRESS 13110 GREENBERRY LANE CLARKSVILLE MD 21029
STREET CITY/TOWN STATE ZIP

APPLICANT MILDENBERG, BOENDER & ASSOC., INC.

DAYTIME PHONE 410 997 0296 CELL 1 FAX 410 997 0298

MAILING ADDRESS 6800 Deerpath Rd Elkridge, MD 21075
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME GREENBERRY LOT NO. 21

PROPERTY ADDRESS 13110 GREENBERRY LANE CLARKSVILLE MD 21029
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 28 GRID _____ PARCEL(S) 48 PROPOSED LOT SIZE 1A±

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.

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

Lot 21

AP

21-D

dk brn L
7vcpl

brncl
2csbk

red grsel
c3p (blk)

red grsel
3.5'

red L
c. mica
4.5'

red fsl
c. mica
5'

redd brn fsl
to redd brn fsl
m. mica, 2vcpl

brncl
red fsl
m. fsl, mica
m. d (brn) m. p (blk)

21A-22E

dk brn L
brncl 3'

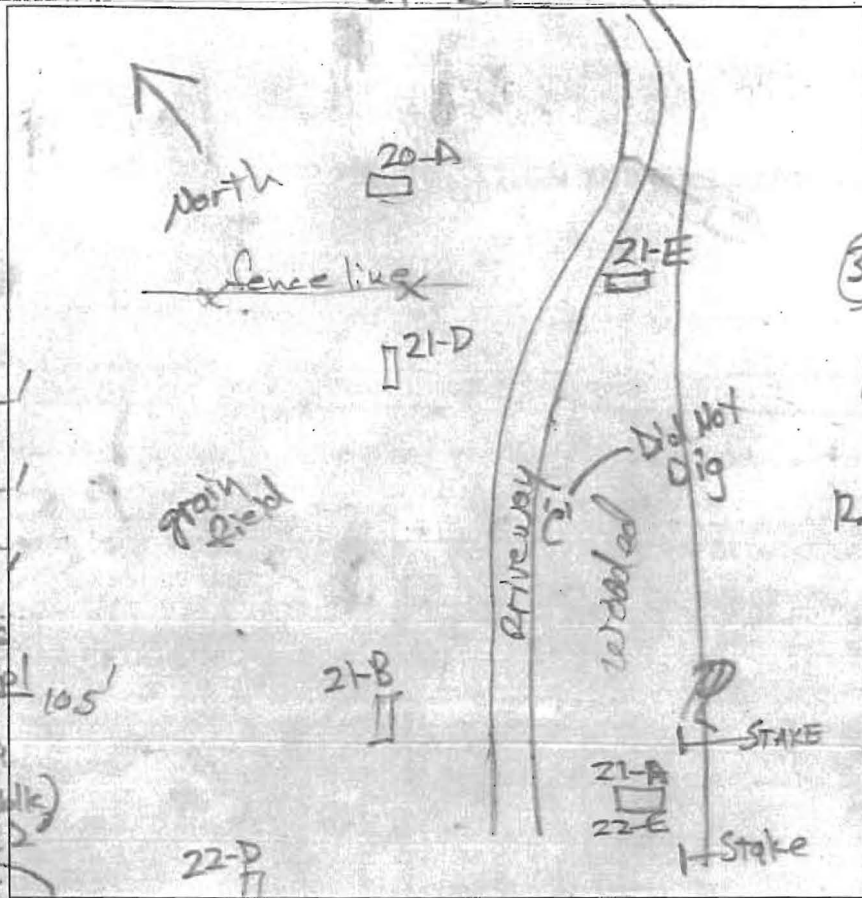
brn L
clay silts 4.5'

red & brn
fsl, c. mica

redd brn
fsl, mica

redd yellow
fsl, dense

topl 12'



21-R

0.8' dk brn L
3vcpl
brncl
3msbk

1.8'

2.7' brn L
fsl, mica
heavy

3.5' redd brn fsl
m. mica (m2p)

8' redd brn fsl
fsl, mica
10' clay

red & brn fsl
7mpl, mica
concrete

21-E

0.5' dk grey brn
L 2vcpl

1' brn L
2vcpl to top

2' brncl

3.3' redcl

5.5' redd brn L

6' redd brn
fsl, mica

9.8' redd yellow
fsl, mica

12' topl

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2/26/13	21-B	5' / 12.5'	10:09	10:13	10:21	8	P
2/26/13	21-D	6.4' / 12'	10:48	10:49:30	10:56	6.5	P
2/26/13	21-A	12'	Visual	9.5' to 8'	OK		P
	22-E			0.5' to 1.2'			
2/22/13	21-E	7.4' / 12'	12:42	10:21	Pulled		F

REMARKS Did not dig 21-C, driveway

SANITARIAN RB BACKHOE Nathan OTHERS Jacob Hikmat

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

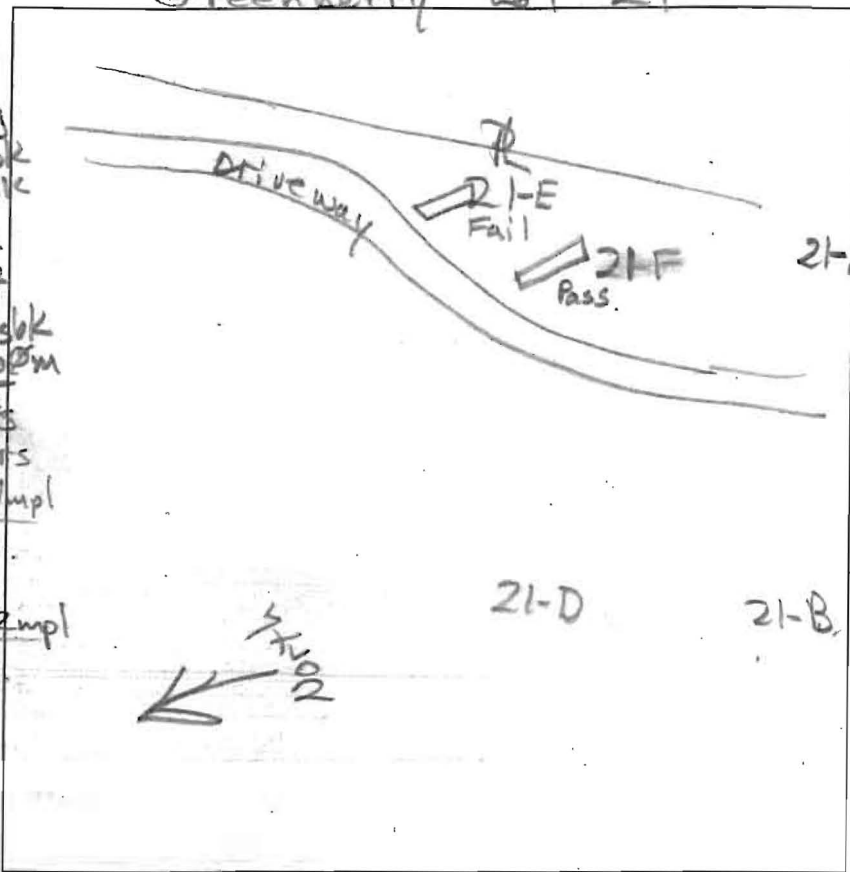
TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

Greenberry Lot 21

A/P

21-F

3' dk brn L, 2 sbk
 5.5' brn L, 2 sbk
 brn L, 2 sbk
 yel-brn L, 3 sbk
 brn L, 2 sbk
 11.2' yel-red L, 1 sbk
 red & brn Ls
 few channers
 many mica, 1 spl
 12' pale red
 & lt. grey ls.
 many mica
 (2P (blk) 2 spl



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4/15/3	21-F	5.5' / 12'	1:57	2:07+	2:32	12	reshelf
reshelf	21-F	8' / 12'	2:15	2:20	2:32	12	P

REMARKS Did not dig center hole
 SANITARIAN RB BACKHOE Nathan OTHERS Jacob Hikmat
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

Bricker, Robert

From: Bricker, Robert
Sent: Tuesday, March 29, 2016 4:25 PM
To: 'Jacob Hikmat'
Cc: Maya Mildenberg
Subject: RE: Greenberry Lot 22_Cathodic Protection Wire

I have a BAT Plan for Lot 22. The Cathodic Protection Wire enters the well zone (re: wellbox) and is re-routed from there. A Percolation Certification Plan revision will be needed to reconfigure the well zone or designate two (2) Alt. Well locations. Also, the access and maintenance easement must be illustrated on the Perc Cert revision and the BAT Plan.

From: Jacob Hikmat [<mailto:jhikmat@hotmail.com>]
Sent: Friday, March 25, 2016 10:13 AM
To: Bricker, Robert
Cc: Maya Mildenberg
Subject: RE: Greenberry Lot 22_Cathodic Protection Wire

Robert

As it stands, it is just the wire and access to maintain it. They (Columbia Gas) is working on a new wording that would specify a 10' (about 5' +/- from either side for maintenance) access and maintenance easement along the wire.

The new location of the wire was intentionally put outside of the septic easement.

I will forward the new easement language once I have it.

Thanks

R. Jacob Hikmat, P.E.
President
Mildenberg, Boender and Associates, Inc.
7350 Grace Drive, Suite B
Columbia, MD 21044
(410) 997-0296
(443) 538-9547 (Cell)

From: RBricker@howardcountymd.gov
To: jhikmat@hotmail.com
Subject: RE: Greenberry Lot 22_Cathodic Protection Wire
Date: Thu, 24 Mar 2016 21:08:33 +0000

Is there an easement that involves the lot area?

From: Jacob Hikmat [<mailto:jhikmat@hotmail.com>]
Sent: Thursday, March 24, 2016 3:14 PM
To: Bricker, Robert
Cc: Maya Mildenberg; Taylor Faris
Subject: RE: Greenberry Lot 22_Cathodic Protection Wire

Sorry, did not finish,

That was done on Tuesday and the actual location surveyed today.

Thanks

R. Jacob Hikmat, P.E.
President
Mildenberg, Boender and Associates, Inc.
7350 Grace Drive, Suite B
Columbia, MD 21044
(410) 997-0296
(443) 538-9547 (Cell)

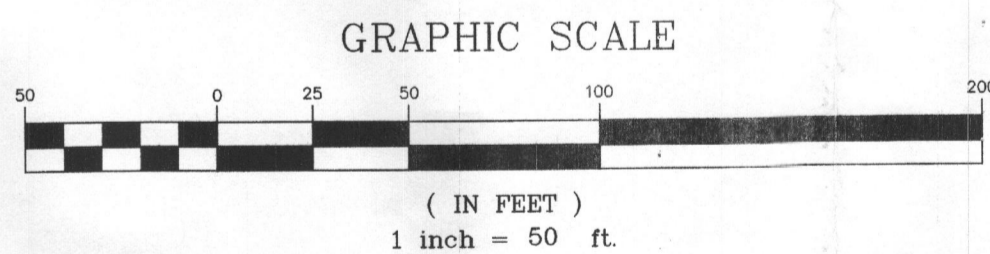
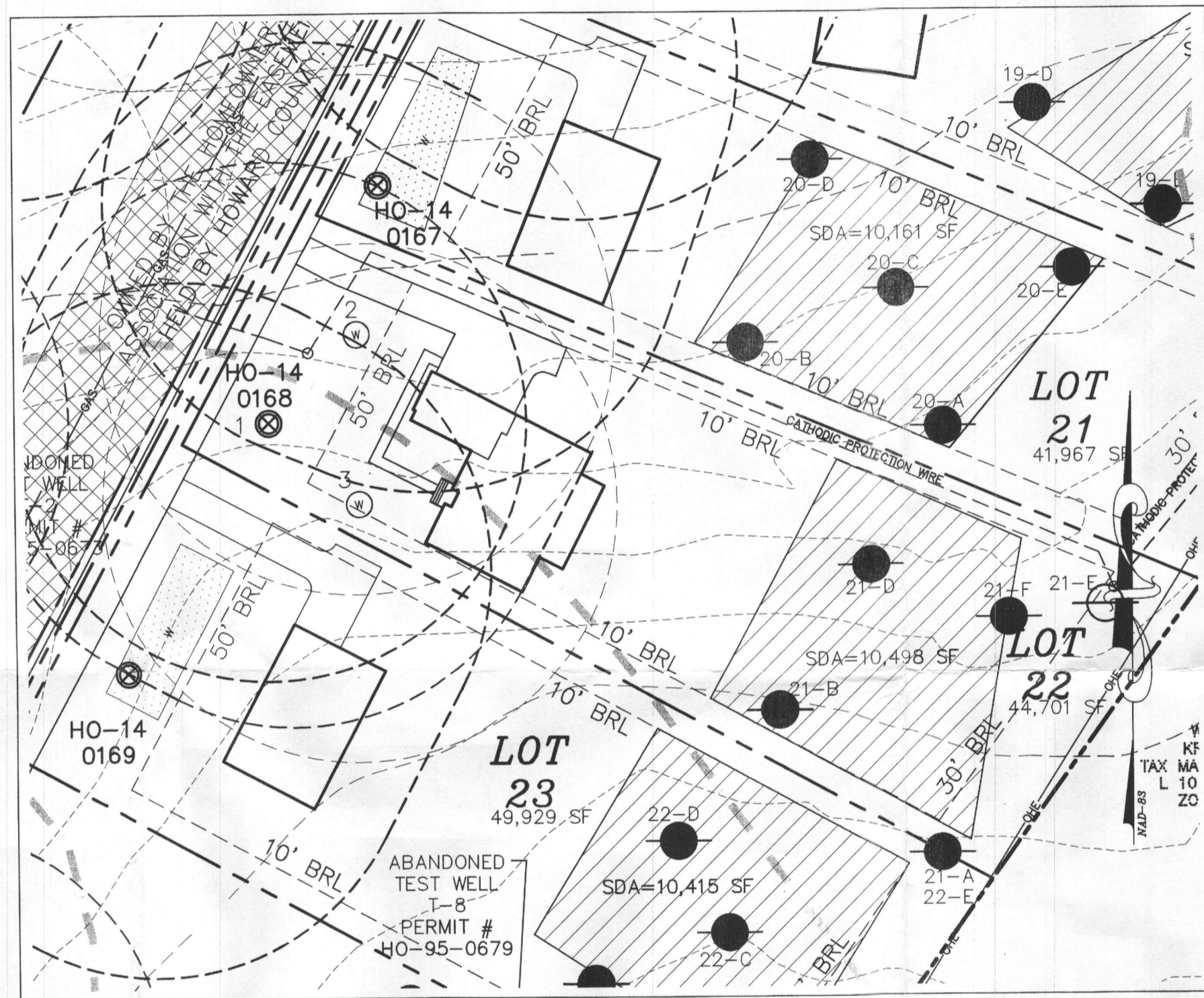
From: RBricker@howardcountymd.gov
To: jhikmat@hotmail.com; tfaris@nvrinc.com
CC: maya@mba-eng.com
Subject: RE: Greenberry Lot 22_Cathodic Protection Wire
Date: Mon, 21 Mar 2016 19:17:15 +0000
Thank you Jacob. Will you be able to provide an exhibit illustrating an accurate placement of the wire within the lot boundaries?

From: Jacob Hikmat [<mailto:jhikmat@hotmail.com>]
Sent: Monday, March 21, 2016 3:15 PM
To: Bricker, Robert; Taylor Faris
Cc: Maya Mildenberg
Subject: RE: Greenberry Lot 22_Cathodic Protection Wire

Robert

SOILS TABLE

SYMBOL	RATING	NAME	K FACTOR
GgB	(B)	GLENELG LOAM, 3-8% SLOPES.	.20
GmB	(C)	GLENVILLE SILT LOAM, 3-8% SLOPES.	.35

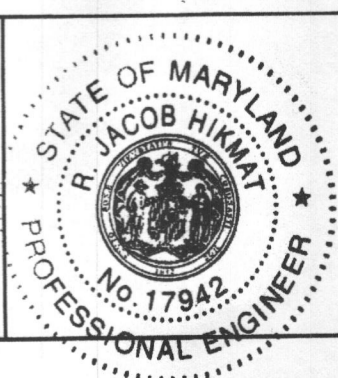


OWNER

ROBERT B. WILLIAMS
 C/O MILDENBERG, BOENDER AND ASSOC.
 7350-B GRACE DRIVE
 COLUMBIA, MARYLAND 21044
 (410)997-0296

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

Signature
 HOWARD COUNTY HEALTH OFFICER
 DATE 4/11/2016

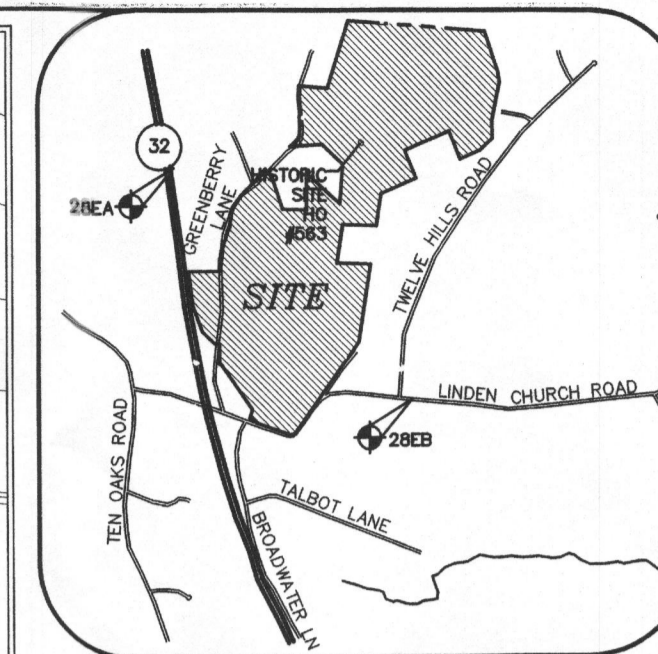


I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19742, EXP DATE 09/03/16.

Signature
 R. JACOB HIKMAT, P.E.
 DATE 03/31/16



LOCATION PLAN
 SCALE: 1"=600'



VICINITY MAP
 SCALE: 1"=2000'
 ADC MAP 24 GRID F6

GENERAL NOTES:

- THE SUBJECT PROPERTY IS ZONED RR-DEO PER THE 2/2/2004 COMPREHENSIVE ZONING PLAN.
- PARCEL BACKGROUND:**
 TAX MAP: 28, PARCEL: 48, LOT: 22
 ELECTION DISTRICT: FIFTH.
 ZONING: RR-DEO.
 AREA: 44,701 S.F.
- TOPOGRAPHY SHOWN HEREON IS BASED ON AERIAL TOPOGRAPHY PERFORMED BY WINGS AERIAL MAPPING ON OR ABOUT 2005. TOPOGRAPHY WAS FIELD VERIFIED IN NOVEMBER, 2012.
- TOPOGRAPHY WITHIN 200' OF SITE BOUNDARY SHOWN HEREON IS BASED ON AERIAL SURVEY FLOWN BY WINGS TOPOGRAPHY INC. DATED ON OR ABOUT MARCH 2007. OTHER TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS AND ANY WELLS 200' DOWNGRADE OF SEPTIC SYSTEMS HAVE BEEN SHOWN.
- PRIVATE WELL AND SEPTIC WILL BE UTILIZED.
- SOILS DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED 1968, SHEET 10.
- THIS AREA DESIGNATES A SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ. FT. 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. THIS EASEMENT 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 SEWAGE DISPOSAL AREA, AND RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.
- THIS SYMBOL DESIGNATES A PASSING PERCOLATION TEST LOCATION
- REPRESENTS PROPOSED POTABLE WATER WELL LOCATIONS
- DRILLED WELL
 HO-14 0168
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- TO THE BEST OF OUR KNOWLEDGE ALL ADJACENT WELL AND SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN.
- GROUNDWATER APPROPRIATIONS PERMIT (GAP) NO. HO2014G003(01).
- THE LOTS SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREAS AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.

THE PURPOSE OF THIS REVISED PERCOLATION PLAT IS TO REPLACE PROPOSED RESERVE WELL AREA WITH RESERVED WELLS # 2 AND 3.

date	MAR 2016	engineering	MM	approval	RJH
project	15-005	illustration	MM	scale	1"=50'
description		revisions			

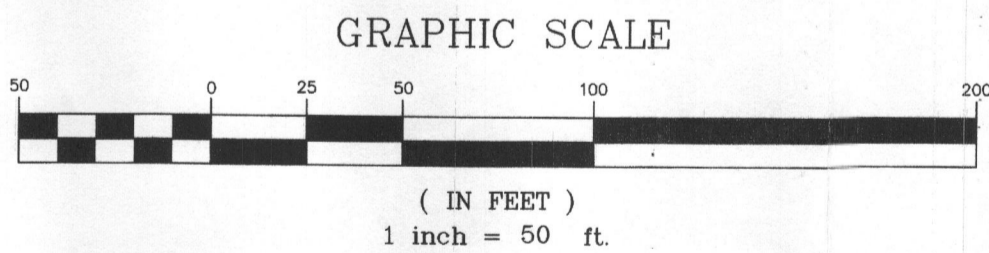
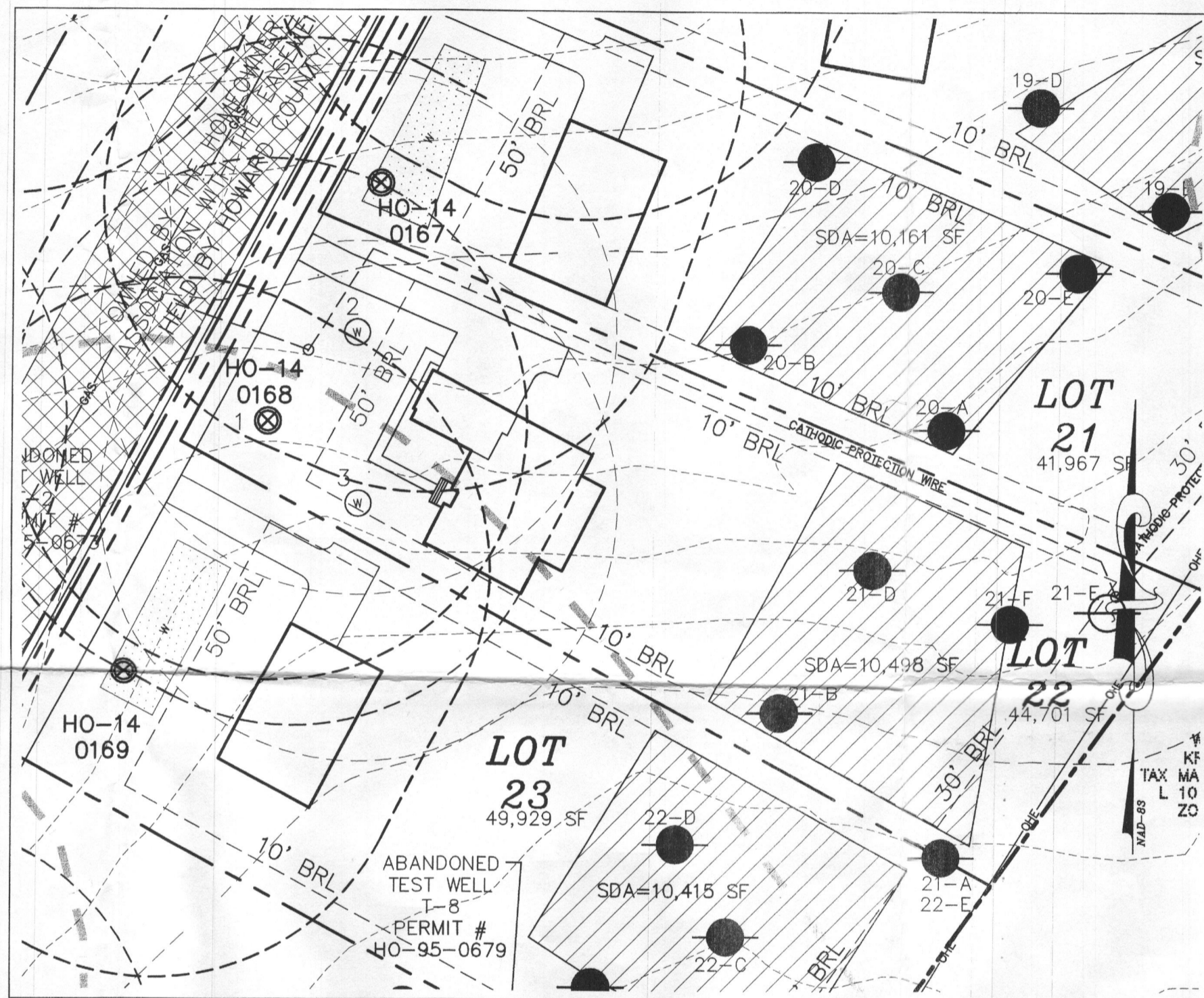
date	
description	
revisions	

GREENBERRY, LOT 22
 5011 ALTOGETHER WAY, CLARKSVILLE MD
 TAX MAP 28, PARCEL 48, LOT 22
 HOWARD COUNTY
 FIFTH ELECTION DISTRICT
REVISED PERCOLATION CERTIFICATION PLAN

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 7350-B Grace Drive, Columbia, Maryland 21044
 (410) 997-0296 Fax (410) 997-0298 Fax

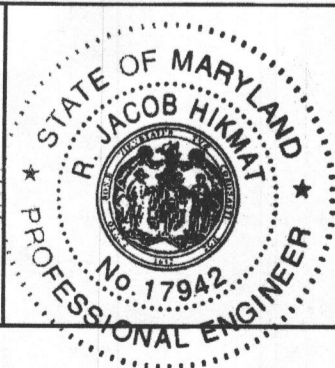
SOILS TABLE

SYMBOL	RATING	NAME	K FACTOR
GgB	(B)	GLENELG LOAM, 3-8% SLOPES.	.20
GmB	(C)	GLENVILLE SILT LOAM, 3-8% SLOPES.	.35



OWNER
 ROBERT B. WILLIAMS
 C/O MILDENBERG, BOENDER AND ASSOC.
 7350-B GRACE DRIVE
 COLUMBIA, MARYLAND 21044
 (410)997-0296

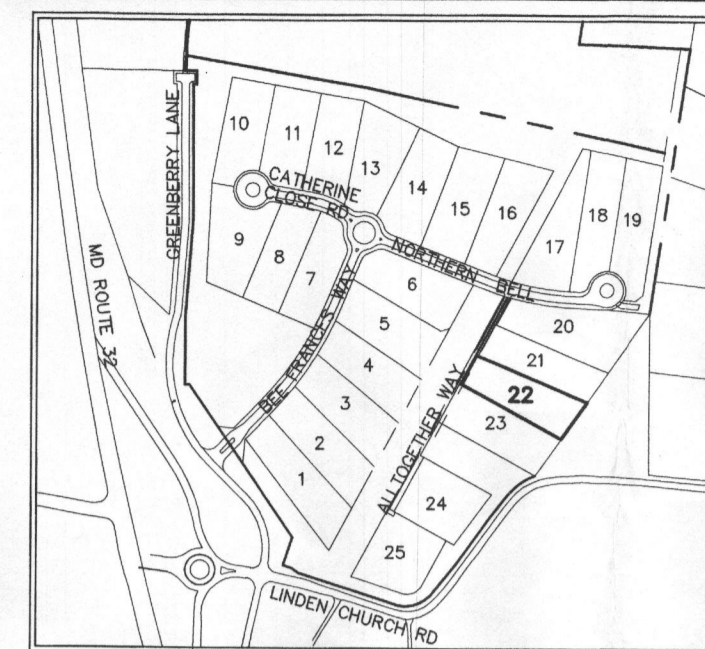
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT



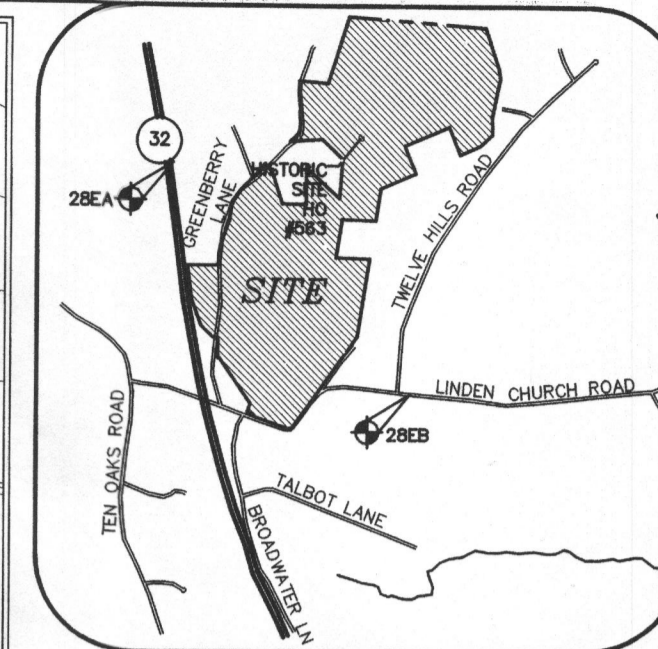
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19742, EXP DATE 09/03/16.

R. JACOB HIKMAT 03/31/16
 R. JACOB HIKMAT, P.E. DATE

Howard County Health Officer 4/11/2016
 HOWARD COUNTY HEALTH OFFICER DATE



LOCATION PLAN
 SCALE: 1"=600'



VICINITY MAP
 SCALE: 1" = 2000'
 ADC MAP 24 GRID F6

GENERAL NOTES:

- THE SUBJECT PROPERTY IS ZONED RR-DEO PER THE 2/2/2004 COMPREHENSIVE ZONING PLAN.
- PARCEL BACKGROUND:**
 TAX MAP: 28, PARCEL: 48, LOT: 22
 ELECTION DISTRICT: FIFTH.
 ZONING: RR-DEO.
 AREA: 44,701 S.F.
- TOPOGRAPHY SHOWN HEREON IS BASED ON AERIAL TOPOGRAPHY PERFORMED BY WINGS AERIAL MAPPING ON OR ABOUT 2005. TOPOGRAPHY WAS FIELD VERIFIED IN NOVEMBER, 2012.
- TOPOGRAPHY WITHIN 200' OF SITE BOUNDARY SHOWN HEREON IS BASED ON AERIAL SURVEY FLOWN BY WINGS TOPOGRAPHY INC. DATED ON OR ABOUT MARCH 2007. OTHER TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS AND ANY WELLS 200' DOWNGRADE OF SEPTIC SYSTEMS HAVE BEEN SHOWN.
- PRIVATE WELL AND SEPTIC WILL BE UTILIZED.
- SOILS DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED 1968, SHEET 10.
- THIS AREA DESIGNATES A SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ. FT. 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. THIS EASEMENT 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 SEWAGE DISPOSAL AREA, AND RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.
- THIS SYMBOL DESIGNATES A PASSING PERCOLATION TEST LOCATION
- 18-B
- 1 2 3 REPRESENTS PROPOSED POTABLE WATER WELL LOCATIONS
- HO-14 0168 DRILLED WELL
- ANY CHANGES TO A PRIVATE SEWERAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- TO THE BEST OF OUR KNOWLEDGE ALL ADJACENT WELL AND SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN.
- GROUNDWATER APPROPRIATIONS PERMIT (GAP) NO. HO2014G003(01).
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREAS AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.

THE PURPOSE OF THIS REVISED PERCOLATION PLAT IS TO REPLACE PROPOSED RESERVE WELL AREA WITH RESERVED WELLS # 2 AND 3.

date	MAR 2016	engineering	MMM	approval	RJH
project	15-005	illustration	MMM	scale	1"=50'

no.		description	revisions

GREENBERRY, LOT 22
 5011 ALTOGETHER WAY, CLARKSVILLE MD
 TAX MAP 28, PARCEL 48, LOT 22
 FIFTH ELECTION DISTRICT
 HOWARD COUNTY
REVISED PERCOLATION CERTIFICATION PLAN

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 7350-B Grace Drive, Columbia, Maryland 21044
 (410) 997-0296 Fax: (410) 997-0298 Fax.