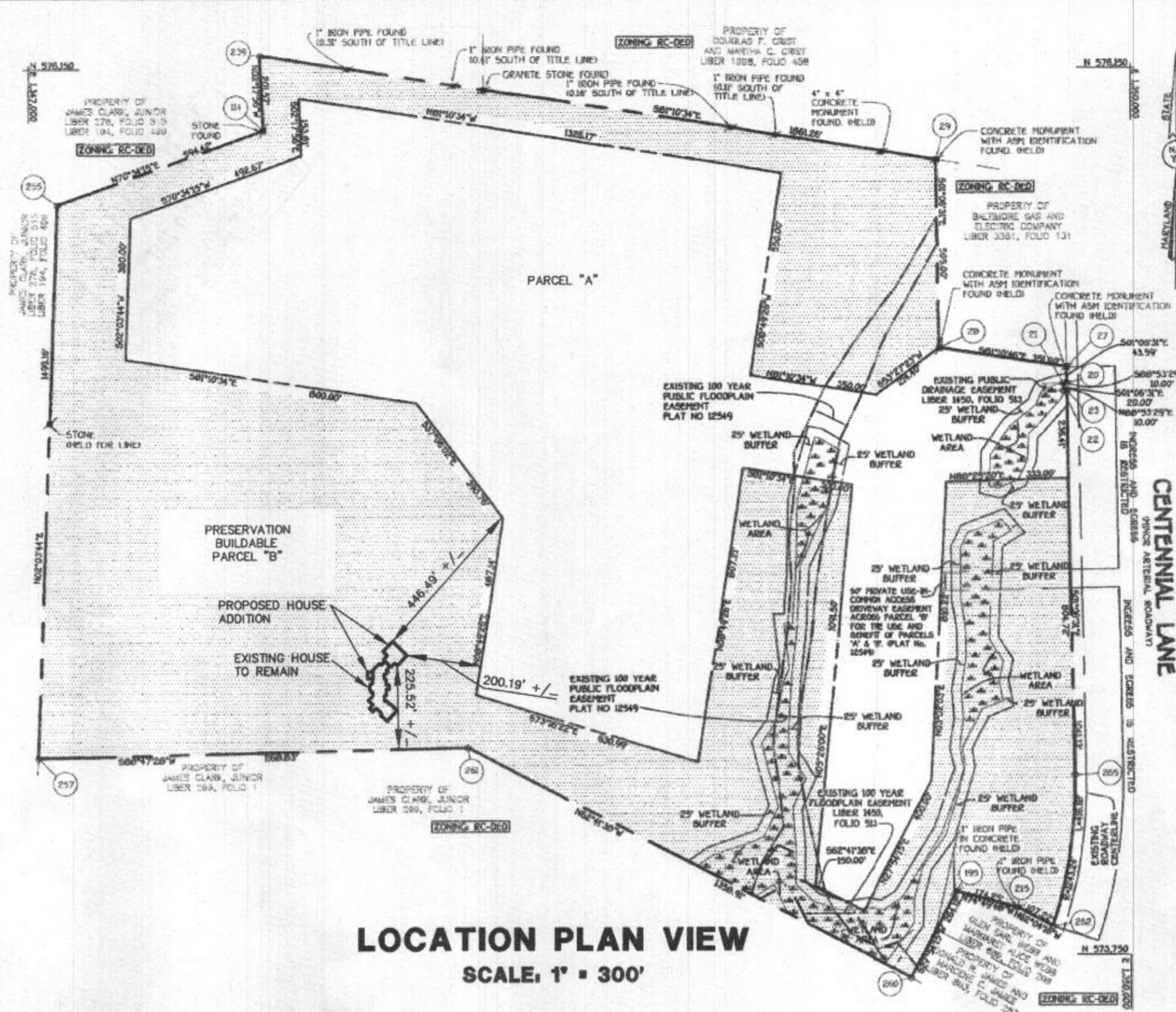
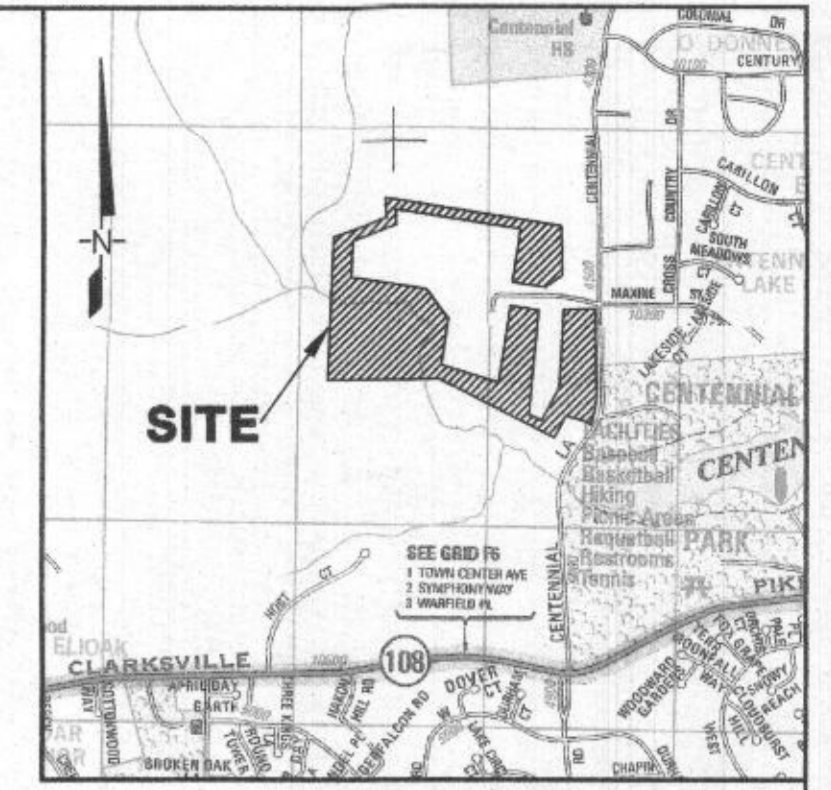


PLAN VIEW
SCALE: 1" = 40'



LOCATION PLAN VIEW
SCALE: 1" = 300'



VICINITY MAP
SCALE: 1" = 2,000'
ADC MAP: 15, GRID: E1
Copyright ADC The Map People
Permitted Use Number: 2071191

- GENERAL NOTES:**
- THIS SITE CONSISTS OF 62,970 ACRES.
 - TAX ACCOUNT NUMBER: 383861
 - EXISTING USE: SINGLE FAMILY DWELLING
 - PROPOSED USE: SINGLE FAMILY DWELLING ADDITION
 - PROPERTY ADDRESS: 4580 CENTENNIAL LANE, ELICOTT CITY, MD. 21045
 - OWNER: ROBERT SCOTT BERG
USA ANNETTE BERG
4580 CENTENNIAL LANE
ELICOTT CITY, MD. 21045
PHONE: 443-939-0656
 - DEVELOPER: ROBERT SCOTT BERG
USA ANNETTE BERG
4580 CENTENNIAL LANE
ELICOTT CITY, MD. 21045
PHONE: 443-939-0656
 - NO PROPERTY LINE SURVEY HAS BEEN MADE AT THIS TIME. THE EXISTING UTILITIES HAVE NOT BEEN FIELD VERIFIED AT THE TIME. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE LOCATION OF THE EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY GRADING ACTIVITY.
 - ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.

PURPOSE NOTE:
THE PURPOSE OF THIS PLAN IS TO REVISE THE 10,000 SQUARE FOOT SEPTIC AREA. THIS REVISION IS TO ALLOW FOR THE RELOCATION OF SEPTIC TRENCHES FOR A HOUSE ADDITION TO BE PLACED ON SITE.

TOPOGRAPHY NOTE:
THE TOPOGRAPHY SHOWN ON THIS PLAN WAS TAKEN FROM EXISTING APPROVED DRAWINGS ON FILE WITH THE HOWARD COUNTY BUREAU OF ENVIRONMENTAL HEALTH.

WELL LOCATION NOTE:
ALL EXISTING WELLS ON THE SUBJECT PROPERTY AND WITHIN 100 FEET OF SUBJECT PROPERTY BOUNDARIES ARE REPRESENTED TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NOTE:
THE LOT SHOWN HEREIN COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.

BOUNDARY AND LOCATION NOTE:
THE LOT BOUNDARY IS TAKEN FROM THE FINAL PLAT NUMBER 1698R. THE HOUSE AND SEPTIC AREA LOCATION ARE TAKEN FROM THE PREVIOUSLY APPROVED SITE DEVELOPMENT PLAN.

CERTIFICATION OF COMPLIANCE WITH OWNERSHIP WIDTH AND LOT AREA REQUIREMENTS FOR LOTS CREATED AFTER 1985:
THE LOT SHOWN HEREIN COMPLIES WITH THE MINIMUM WIDTH AND LOT AREA REQUIREMENTS FOR LOT AREA AS REQUIRED BY MARYLAND DEPARTMENT OF ENVIRONMENT.

'MDE SEWAGE EASEMENT STATEMENT'
"THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. 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 A REVISED EASEMENT SHALL NOT BE NECESSARY."

SEPTIC TRENCH DESIGN CALCULATION

INITIAL TRENCHES	LINEAR FEET
7 x 150 = 1,312.50	= 437.50 LINEAR FEET
0.80	3
1ST REPLACEMENT TRENCHES	
7 x 150 = 1,312.50	= 437.50 x 0.6250 = 273.437 LINEAR FEET
0.80	3
2ND REPLACEMENT TRENCHES	
7 x 150 = 1,312.50	= 437.50 x 0.7143 = 312.506 LINEAR FEET
0.80	3

SEPTIC TRENCH INFORMATION

TRENCH	TRENCH LENGTH	GROUND ELEVATION	INVERT ELEVATION	MAX. BOTTOM ELEVATION
TRENCH 1-1	57 LIN. FT.	400.00	396.00	392.00
TRENCH 1-2	57 LIN. FT.	397.25	393.25	389.25
TRENCH 1-3	57 LIN. FT.	397.75	393.75	389.75
TRENCH 2-1	69 LIN. FT.	400.00	396.00	392.00
TRENCH 2-2	69 LIN. FT.	399.90	395.90	391.90
TRENCH 2-3	69 LIN. FT.	398.00	394.00	390.00
TRENCH 2-4	69 LIN. FT.	397.90	393.90	389.90
TRENCH 3-1	63 LIN. FT.	400.10	396.10	392.10
TRENCH 3-2	63 LIN. FT.	399.25	395.25	391.25
TRENCH 3-3	63 LIN. FT.	398.20	394.20	390.20
TRENCH 3-4	63 LIN. FT.	398.00	394.00	390.00
TRENCH 3-5	63 LIN. FT.	398.00	394.00	390.00

SEPTIC SYSTEM INFORMATION

INV. OUT OF HOUSE	401.80
INV. IN SEPTIC TANK	400.80
INV. IN DIST. BOX	400.65
TOP OF SEPTIC TANK	401.90
GROUND ELEV. OVER SEPTIC TANK	406.00
INV. IN DIST. BOX	400.55
INV. OUT OF DIST. BOX	400.45
GROUND ELEV. OVER DIST. BOX	404.85

PROFESSIONAL CERTIFICATION

PROFESSIONAL CERTIFICATION: I, MICHAEL J. WERNER, 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. 23380, EXPIRATION DATE 8-19-18.

Signature: *[Signature]* Date: 6/21/17
 Name: Michael J. Werner
 Firm Name: M.A.F. & ASSOCIATES, LLC
 Address: 526 HOODS MILL ROAD, WOODBINE MD. 21797

LEGEND

- Existing Grade
- Soil Boundary Line
- Soil Classification
- Revised Private Septic Area to be Added
- Existing Septic Area to be Removed
- Existing 1,500 Gallon Septic Tank
- Proposed 2,000 Gallon Septic Tank
- Existing 1,500 S.F. Well Zone
- Existing Well
- Existing Passing Percolation Test Hole Location (5-17-17)
- Existing Passing Percolation Test Hole Location (12/18/05)

"Approval for private water and private sewerage systems"

[Signature] Health Officer Date: 7/20/17

M.A.F. & ASSOCIATES, LLC
 526 HOODS MILL ROAD
 WOODBINE MD. 21797
 PHONE: 410-552-5541
 FAX: 410-552-5548

SHEET 1 of 1

PERCOLATION CERTIFICATION PLAN

BERG RESIDENCE AT 4580 CENTENNIAL LANE ELICOTT CITY MD. 21042

2ND DISTRICT TAX MAP 30 BLOCK 1 ZIPCODE: 21042

HOWARD COUNTY, MARYLAND DRAWN ON: JUNE 14, 2017 PARCEL 001



Bureau of Environmental Health

8930 Stanford Blvd., Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

Date: May 17, 2017

To: M.A.F. and Associates LLC.
C/o Matt Forgen
Via E-Mail: mforgen@aol.com

RE: **Percolation Testing Report**
4580 Centennial Lane
Ellicott City, Maryland 20759
Tax Map 30 Parcel 1

Mr. Forgen,

Percolation testing was conducted on the referenced property on May 17, 2017. The purpose for conducting percolation tests was for a redesign of a sewage disposal area for a proposed addition to the house.

A total of seven (7) test holes were evaluated and seven (7) 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 seven (7) percolation test holes which were satisfactory. Field data collected is shown on the Percolation Test Worksheet attached to 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 area. Please include the actual address on the plan and the well tag number on the percolation certification plan. 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.

Thank you & Have a*""

(..*""..*""
(..*""..*"" * Wonderful Day !

Dana Bernard

Dana Bernard, R.E.H.S./L.E.H.S.

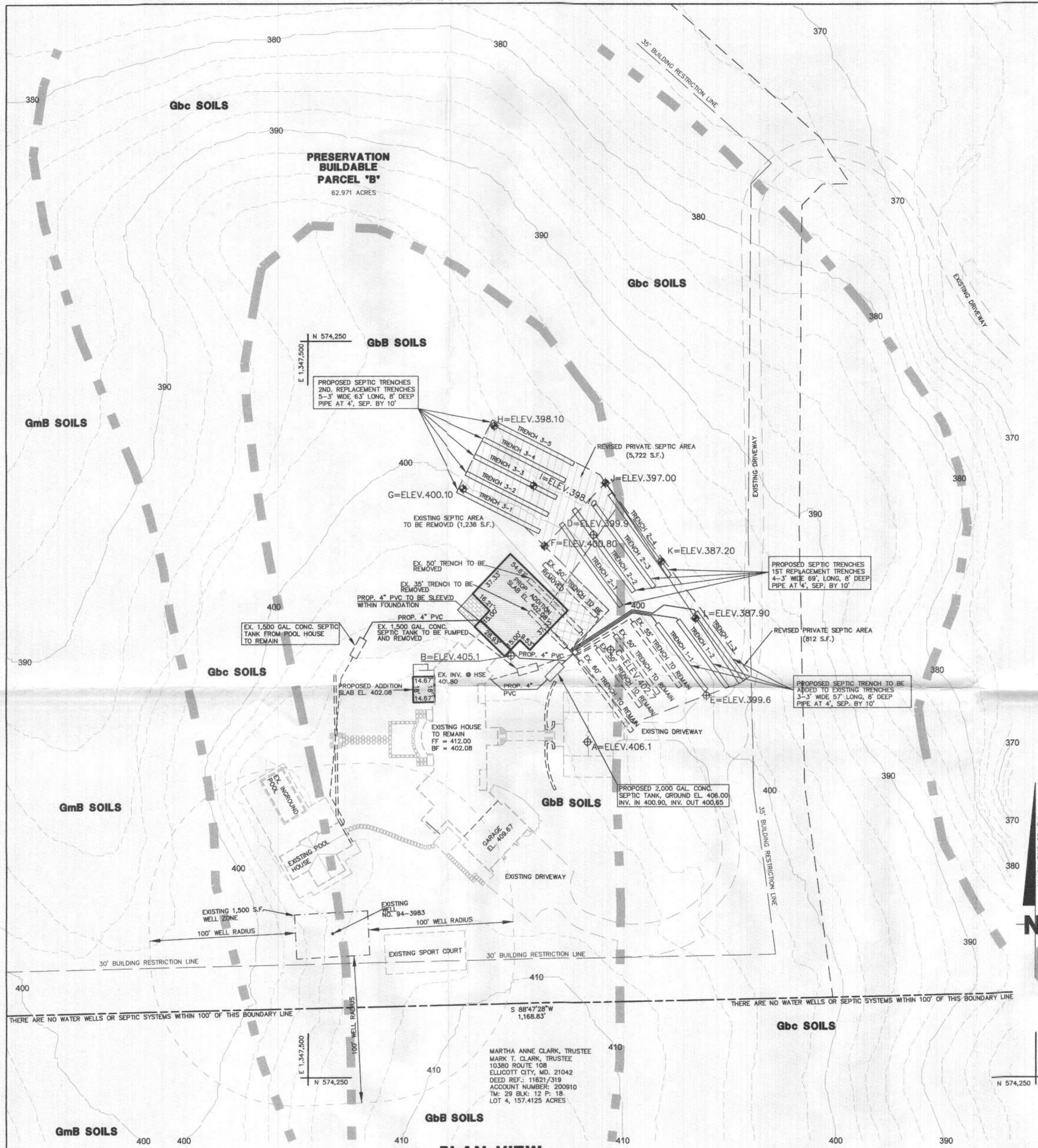
Environmental Specialist II

Bureau of Environmental Health

Well and Septic Program

Phone (410) 313-2775

E-mail: DBernard@howardcountymd.gov



PLAN VIEW
SCALE: 1" = 40'

PROFESSIONAL CERTIFICATION

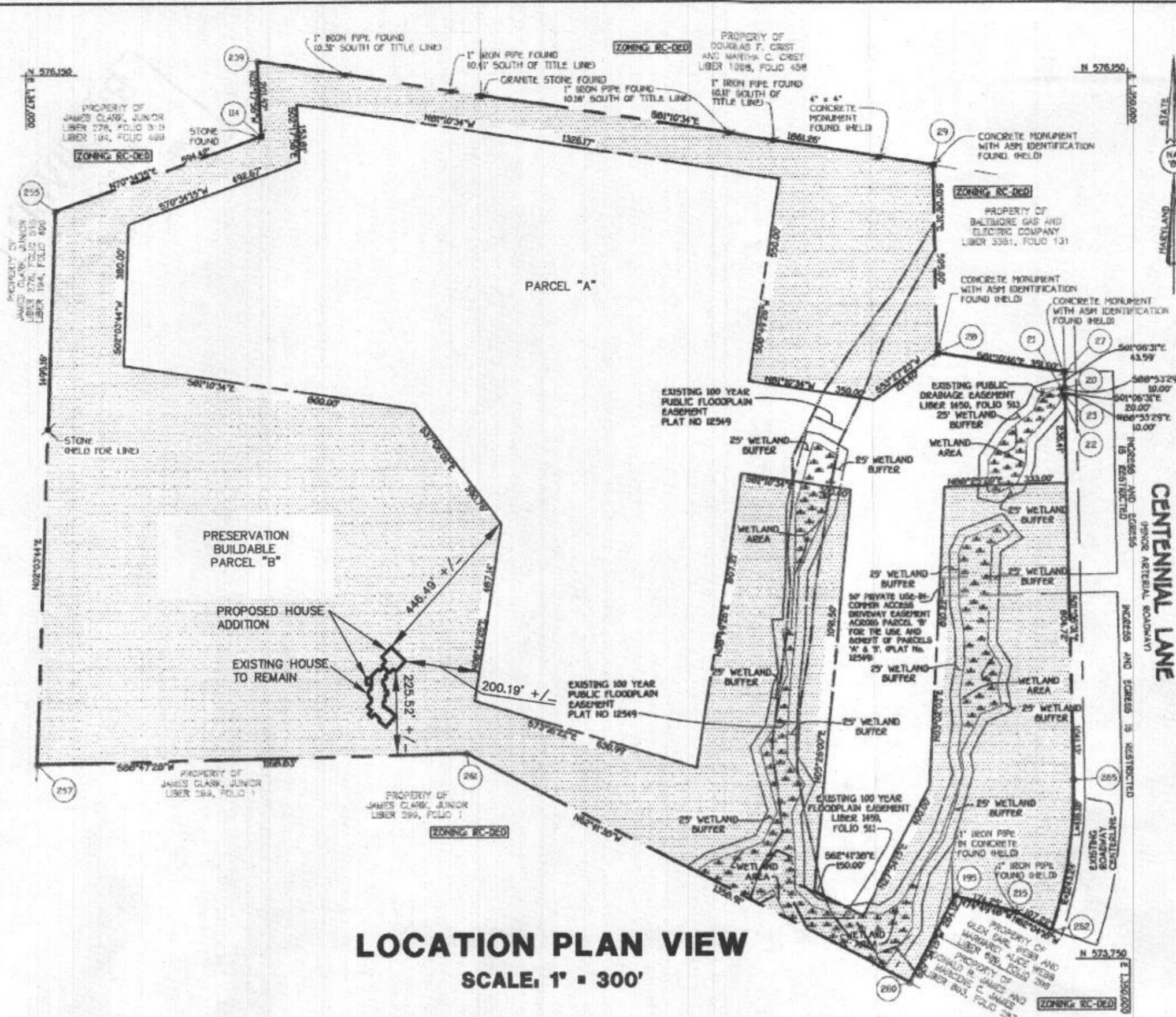
PROFESSIONAL CERTIFICATION: I, MICHAEL J. WERNER, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 23380, EXPIRATION DATE 8-19-18.

Signature: *[Signature]* Date: 6/21/17
 Name: Michael J. Werner
 Firm Name: M.A.F. & ASSOCIATES, LLC
 Address: 526 HOODS MILL ROAD, WOODBINE MD, 21797



LEGEND

- Existing Grade
- Gbc SOILS SOIL CLASSIFICATION
- GbB SOILS SOIL CLASSIFICATION
- GmB SOILS SOIL CLASSIFICATION
- SOIL BOUNDARY LINE
- REVISED PRIVATE SEPTIC AREA TO BE ADDED
- EXISTING SEPTIC AREA TO BE REMOVED
- EXISTING PASSING PERCOLATION TEST HOLE LOCATION (5-17-17)
- EXISTING PASSING PERCOLATION TEST HOLE LOCATION (12/18/05)
- EXISTING 1,500 GALLON SEPTIC TANK
- PROPOSED 2,000 GALLON SEPTIC TANK
- EXISTING 1,500 S.F. WELL ZONE
- EXISTING WELL



LOCATION PLAN VIEW
SCALE: 1" = 300'

SEPTIC TRENCH INFORMATION

TRENCH	TRENCH LENGTH	GROUND ELEVATION	INVERT ELEVATION	MAX. BOTTOM ELEVATION
TRENCH 1-1	57 LN. FT.	400.00	396.00	392.00
TRENCH 1-2	57 LN. FT.	397.25	393.25	389.25
TRENCH 1-3	57 LN. FT.	397.75	393.75	389.75
TRENCH 2-1	69 LN. FT.	400.00	396.00	392.00
TRENCH 2-2	69 LN. FT.	399.90	394.90	391.90
TRENCH 2-3	69 LN. FT.	398.00	394.00	390.00
TRENCH 2-4	69 LN. FT.	397.90	393.90	389.90
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TRENCH 3-2	63 LN. FT.	398.25	394.25	391.25
TRENCH 3-3	63 LN. FT.	398.20	394.20	390.20
TRENCH 3-4	63 LN. FT.	398.00	394.00	390.00
TRENCH 3-5	63 LN. FT.	398.00	394.00	390.00

SEPTIC SYSTEM INFORMATION

INV. OUT OF HOUSE	401.80
INV. IN SEPTIC TANK	400.90
INV. IN DIST. BOX	400.65
TOP OF SEPTIC TANK	401.90
GROUND ELEV. OVER SEPTIC TANK	406.00
INV. IN DIST. BOX	400.55
INV. OUT OF DIST. BOX	400.45
GROUND ELEV. OVER DIST. BOX	404.85

- GENERAL NOTES:**
- THIS SITE CONSISTS OF 62,970 ACRES.
 - TAX ACCOUNT NUMBER: 383861
 - EXISTING USE: SINGLE FAMILY DWELLING
 - PROPOSED USE: SINGLE FAMILY DWELLING ADDITION
 - PROPERTY ADDRESS: 4880 CENTENNIAL LANE, ELLICOTT CITY, MD, 21045
 - OWNER: ROBERT SCOTT BERG, USA ANNETTE BERG, 4880 CENTENNIAL LANE, ELLICOTT CITY, MD, 21045, PHONE: 443-939-0656
 - DEVELOPER: ROBERT SCOTT BERG, USA ANNETTE BERG, 4880 CENTENNIAL LANE, ELLICOTT CITY, MD, 21045, PHONE: 443-939-0656
 - NO PROPERTY LINE SURVEY HAS BEEN MADE AT THIS TIME.
 - THE EXISTING UTILITIES HAVE NOT BEEN FIELD VERIFIED AT THE TIME. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE LOCATION OF THE EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY GRADING ACTIVITY.
 - ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.

PURPOSE NOTE:
THE PURPOSE OF THIS PLAN IS TO REVISE THE 10,000 SQUARE FOOT SEPTIC AREA. THIS REVISION IS TO ALLOW FOR THE RELOCATION OF SEPTIC TRENCHES FOR A HOUSE ADDITION TO BE PLACED ON SITE.

TOPOGRAPHY NOTE:
THE TOPOGRAPHY SHOWN ON THIS PLAN WAS TAKEN FROM EXISTING APPROVED DRAWINGS ON FILE WITH THE HOWARD COUNTY BUREAU OF ENVIRONMENTAL HEALTH.

WELL LOCATION NOTE:
ALL EXISTING WELLS ON THE SUBJECT PROPERTY AND WITHIN 100 FEET OF SUBJECT PROPERTY BOUNDARIES ARE REPRESENTED TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NOTE:
THE LOT SHOWN HEREIN COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.

BOUNDARY AND LOCATION NOTE:
THE LOT BOUNDARY IS TAKEN FROM THE FINAL PLAT NUMBER 16986. THE HOUSE AND SEPTIC AREA LOCATION ARE TAKEN FROM THE PREVIOUSLY APPROVED SITE DEVELOPMENT PLAN.

CERTIFICATION OF COMPLIANCE WITH OWNERSHIP WIDTH AND LOT AREA REQUIREMENTS FOR LOTS CREATED AFTER 1985:
THE LOT SHOWN HEREIN COMPLIES WITH THE MINIMUM WIDTH AND LOT AREA REQUIREMENTS FOR LOT AREA AS REQUIRED BY MARYLAND DEPARTMENT OF ENVIRONMENT.

MDE SEWAGE EASEMENT STATEMENT
"THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. 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 PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED EASEMENT SHALL NOT BE NECESSARY."

SEPTIC TRENCH DESIGN CALCULATION

INITIAL TRENCHES	7 X 150 = 1,312.50 = 437.50 LINEAR FEET
1ST REPLACEMENT TRENCHES	7 X 150 = 1,312.50 = 437.50 X 0.6250 = 273.437 LINEAR FEET
2ND REPLACEMENT TRENCHES	7 X 150 = 1,312.50 = 437.50 X 0.7143 = 312.506 LINEAR FEET

SHEET 1 of 1

PERCOLATION CERTIFICATION PLAN

BERG RESIDENCE
AT 480 CENTENNIAL LANE
ELLICOTT CITY MD. 21042

2ND DISTRICT SCALE: AS SHOWN TAX MAP 30 BLOCK 1 ZIPCODE: 21042
 HOWARD COUNTY, MARYLAND DRAWN ON: JUNE 14, 2017 PARCEL 001

"Approval for private water and private sewage systems"

[Signature] 7/7/2017
 Health Officer Date

M.A.F. & ASSOCIATES, LLC
 526 HOODS MILL ROAD
 WOODBINE MD. 21797
 PHONE: 410-552-5541
 FAX: 410-552-5546

Williams, Jeffrey

From: MAF & Associates, LLC <mforgen@aol.com>
Sent: Friday, July 07, 2017 11:54 AM
To: Williams, Jeffrey
Cc: Bernard, Dana
Subject: RE: Berg perc cert 4580 Centennial Lane

Jeff

With the pipe in the trench at 4 feet and the proposed trench only running across a grade drop of 1 foot, we loose no effective depth.

Do I need to change my plans if no effective depth is lost?

Thanks

Matthew A. Forgen

On Friday, July 7, 2017 Williams, Jeffrey <jewilliams@howardcountymd.gov> wrote:

I did notice something that should be revised on the design plan. The trench layout on the perc cert shows trenches, especially for the 3rd system not following ground contour. The trenches should run along contour and deviate no more than about a half foot if needed. It looks like you can shove the trenches over laterally to better fit them in along contour when you show them on the design plan. Thanks

Jeff

From: MAF & Associates, LLC [<mailto:mforgen@aol.com>]
Sent: Thursday, July 06, 2017 4:00 PM
To: Williams, Jeffrey
Cc: Bernard, Dana
Subject: RE: Berg perc cert 4580 Centennial Lane

Jeff

I was wondering if you had a chance to review and approve the last changes to the plan?

I know you said I could submit the septic plan at any time but I figured I would wait just to make sure the perc certification plan was approved.

Thanks

Matthew A. Forgen

On Friday, June 30, 2017 Williams, Jeffrey <jewilliams@howardcountymd.gov> wrote:

I'll take a look at them on Monday and push them along as quickly as possible since we had this last minute change. Feel free to submit your septic plan whenever you are ready. Thanks

Jeff

From: MAF & Associates, LLC [<mailto:mforgen@aol.com>]
Sent: Friday, June 30, 2017 12:44 PM
To: Williams, Jeffrey
Cc: Bernard, Dana
Subject: Re: Berg perc cert 4580 Centennial Lane

Jeff

The revisions have been made and the new plans were dropped off. I put them to your attention. Do you have a timeframe for approval and signature. I want to get my septic plan in for review as soon as possible.

Thanks for your help.

Matthew A Forgen

MAF & Associates, LLC

443-864-8589 (cell)

410-552-5541 (office)

410-552-5546 (fax)

-----Original Message-----

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>

To: mforgen <mforgen@aol.com>
Cc: Bernard, Dana <dbernard@howardcountymd.gov>
Sent: Thu, Jun 29, 2017 9:36 am
Subject: Berg perc cert 4580 Centennial Lane

Hello You've been working with Dana Bernard on a perc cert for the Berg residence at 4580 Centennial Lane. She sent it up to me for review and signature and I need the following corrections made for revision in order for us to approve:

- The specs used to size the trenches are inappropriate based on the test hole soils. Please see the attached spec sheet for sizing the trenches for the replacements to the existing system and for the two future repair systems.

Let me know if there are any questions. Thanks

Jeff Williams

Program Supervisor, Well & Septic Program

Bureau of Environmental Health

Howard County Health Dept.

410-313-4261

jewilliams@howardcountymd.gov

CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

M.A.F. & Associates, LLC
Matthew A. Forgen
526 Hoods Mill Road
Woodbine MD 21797
(410) 552-5541

M.A.F. & Associates, LLC

June 21, 2017

HOWARD CO. DEPT. OF HEALTH
8930 STANFORD BOULEVARD
COLUMBIA, MD. 21045

RE: 4580 Centennial Lane
Perc Certification Plan

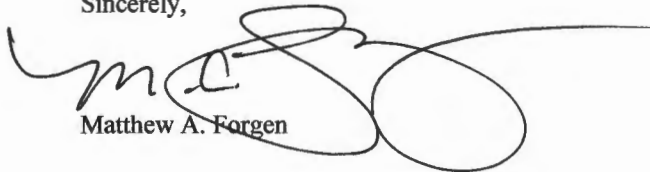
Dear Mr. Williams:

Please accept this resubmittal of a perc certification plan on the above referenced project. The revisions to the plan are as follows.

1. I revised the septic trench calculations as required.
2. I revised the trench locations based on new required trench lengths
3. I revised the private septic area that was being added. This was a very minimal change in area.

If you should have any question regarding this submittal, please feel free to contact me at the number above.

Sincerely,



Matthew A. Forgen

Williams, Jeffrey

From: Williams, Jeffrey
Sent: Thursday, June 29, 2017 9:37 AM
To: 'mforgen@aol.com'
Cc: Bernard, Dana
Subject: Berg perc cert 4580 Centennial Lane
Attachments: 20170629093731183.pdf

Hello You've been working with Dana Bernard on a perc cert for the Berg residence at 4580 Centennial Lane. She sent it up to me for review and signature and I need the following corrections made for revision in order for us to approve:

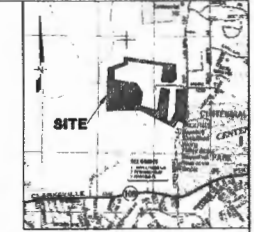
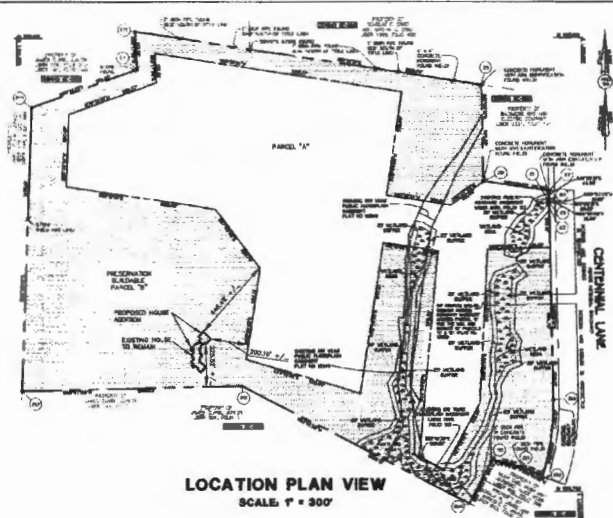
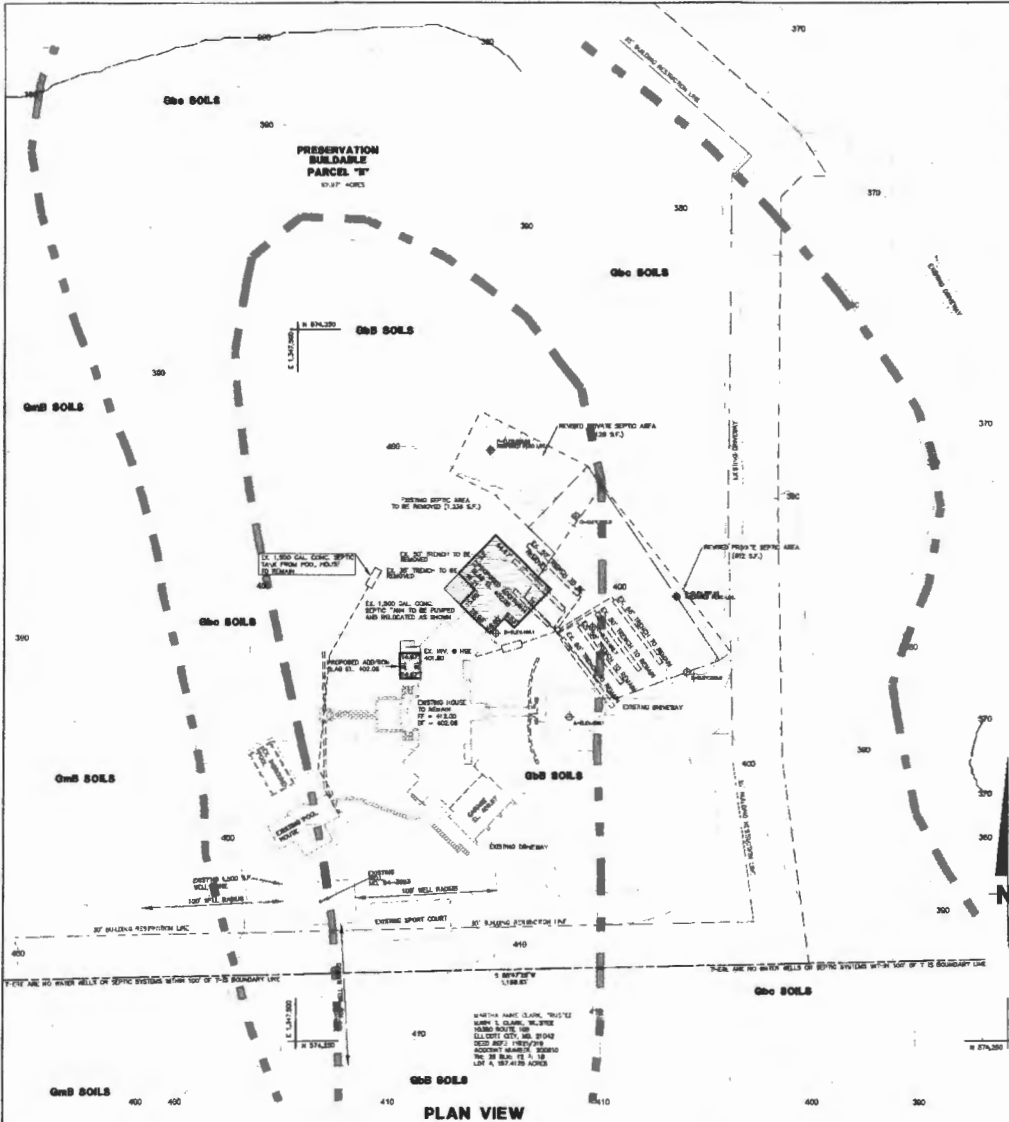
- The specs used to size the trenches are inappropriate based on the test hole soils. Please see the attached spec sheet for sizing the trenches for the replacements to the existing system and for the two future repair systems.

Let me know if there are any questions. Thanks

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@howardcountymd.gov

CONFIDENTIALITY NOTICE

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GENERAL NOTES:

1. THIS SITE CONSISTS OF 0.2170 ACRES.
2. ALL UTILITIES SHOWN ARE AS SHOWN.
3. LAND USE: SINGLE FAMILY DWELLING.
4. PROPOSED USE: SINGLE FAMILY DWELLING.
5. PROPERTY ADDRESS: 4580 CENTENNIAL LANE, ELlicott CITY, MD 21043.
6. OWNER: ROBERT SCOTT BERG, LISA KONTZBERG BERG, ELlicott CITY, MD 21043.
7. DEVELOPER: ROBERT SCOTT BERG, LISA KONTZBERG BERG, ELlicott CITY, MD 21043.
8. NO PROPERTY LINE SURVEY HAS BEEN MADE AT THIS TIME.
9. THE EXISTING UTILITIES HAVE NOT BEEN MARKED AT THE LOCATION OF THE EXISTING UTILITIES FROM THE COMMENCEMENT OF ANY EXCAVATION.
10. ANY CHANGES TO A PRIVATE SEWER LAYOUT SHALL REQUIRE A HOUSE PERSOLLATION CONNECTION PLAN.

PURPOSE NOTE:

THE PURPOSE OF THIS PLAN IS TO REVISE THE HOUSE SEWER HOUSING SEPTIC AREA. THE SEWER IS TO ALLOW FOR THE INSTALLATION OF SEPTIC TRENCHES FOR A HOUSE ADDITION TO BE PLACED ON SITE.

TOPOGRAPHY NOTE:

THE TOPOGRAPHY SHOWN ON THIS PLAN WAS TAKEN FROM EXISTING APPROVED GRADING PLANS WITH THE HOWARD COUNTY BUREAU OF ENVIRONMENTAL HEALTH.

WELL LOCATION NOTE:

ALL EXISTING WELLS ON THE SUBJECT PROPERTY AND WITHIN VICINITY OF SUBJECT PROPERTY DISTANCES ARE REFERENCED TO THE BEST OF HIS KNOWLEDGE AND BELIEF.

NOTE:

THE LOT SHOWS HEREON COMPARES WITH THE MARIANA OWNERSHIP MAP AND LOT AREA AS REQUIRED BY THE MARIANA DEPARTMENT OF LANDS/PLANNING.

BOUNDARY AND LOCATION NOTE:

NO SETBACKS OR EASEMENTS FROM THE FRONT, REAR, SIDE, OR CORNER OF THE HOUSE AND SEPTIC AREA LOCATION ARE TAKEN FROM THE PREVIOUSLY APPROVED SITE DEVELOPMENT PLAN.

"WIDE SEWERAGE AGREEMENT STATEMENT"

"THIS AREA CONVEYS A PRIVATE SEWERAGE EXEMPT OF AT LEAST 1500 SQUARE FEET AS REQUIRED BY THE MARIANA DEPARTMENT OF ENVIRONMENT FOR WIDENING, REPAIRS, IMPROVEMENTS OF ANY NATURE IN THIS AREA AND RESPECTS THE EXEMPT SHALL BECOME THE LAW AND ALSO CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICE SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE AGREEMENT. FUTURE USE OF A WIDEN EXEMPT SHALL NOT BE NECESSARY."

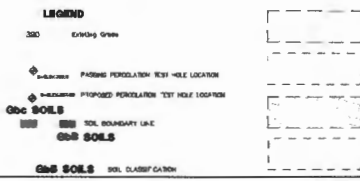
"Approve for private water and private sewerage systems"

See in Office Date

PROFESSIONAL CERTIFICATION

PROFESSIONAL CERTIFICATION: I, MICHAEL A. WARD, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME, AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21018-12.

Signature: *[Signature]*
 Title: MICHAEL A. WARD, P.E.
 MARYLAND PROFESSIONAL ENGINEER
 License No. 21018-12
 State of Maryland
 1701 ANNAPOLIS BLVD., SUITE 200
 ANNAPOLIS, MD 21403
 PHONE: 410-291-1100
 FAX: 410-291-1101



M.A.F. & ASSOCIATES, LLC

ANN BRIDGE WELLS ROAD
 WOODBRIDGE, MD 21797
 PHONE: 410-262-5041
 FAX: 410-262-5045

SHEET 1 of 1

PERCOLLATION TESTING PLAN

**BERG RESIDENCE
 AT 4580 CENTENNIAL LANE
 ELlicott CITY MD. 21042**

2ND DISTRICT SCALE: AS SHOWN TAX MAP 30
 BLOCK 1
 2P0002 21042

HOWARD COUNTY, MARYLAND
 DRAWN ON: MARCH '08, 2007
 PARCEL 001

4580 Centennial Lane

AP

Letter "F"

Red Brown
yellow
Sh
4.8'

Red Brown
yellow
Sh
many mica

9'

Red Brown
yellow
Sh

14'

Letter "G"
Red Brown
yellow
Sh

6.5'

Red Brown
yellow
Sh
many mica

8'

Red Brown
yellow
FSL

Letter "H"
Red Brown
yellow
Sh

6.7'

Red Brown
yellow
Sh
many mica

13'

Letter "I"

Red Brown
yellow
Sh
many mica

5.8'

Red Brown
yellow
Sh

13'

Letter "J"

Red Brown
yellow
Sh

5.9'

Red Brown
yellow
Sh
many mica

12'

Letter "K"

Red Brown
yellow
Sh

4.6'

Red Brown
yellow
Sh
many mica

8.5'

15'

Letter "L"

Red Brown
yellow
Sh

3.8'

Red Brown
yellow
Sh
many mica

8'

Red Brown
yellow
FSL
Letter "K"

13'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5-17-17	F	5 / 14	11:23	11:28	11:33	5min	P
5-17-17	G	7 / 14	12:55	12:59	1:08	9min	P
5-17-17	H	7 / 13	12:38	12:44	12:56	12min	P
5-17-17	I	6.5 / 13	12:24	12:33	12:40	7min	P
5-17-17	J	6.5 / 13	12:12	12:16	12:20	4min	P
5-17-17	K	5 / 15	10:21	10:28	10:38	10min	P
5-17-17	L	4.5 / 12	10:35	10:40	10:48	8min	P
5-17-17							

REMARKS

Testing for addition

SANITARIAN

DBernard

BACKHOE

OTHERS

TEST HOLES USED IN SDA

AVG. PERC TIME

SQ. FT/BR

TRENCH WIDTH

INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE SAW

APPLICATION

A 25972

SEWAGE DISPOSAL TESTING

P _____

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
P. O. BOX 476, ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 465-5000, EXT. 356

DISTRICT 2nd

DATE 6-1-77

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER John J. Moorberg & Sam C. Robinson

ADDRESS 12001 New Hampshire Ave PHONE (301) 622-1110
Silver Spring Md 20904

PROPERTY LOCATION: Lot 3
SUBDIVISION Part of a 123⁴/₄ AC Land Tax Map 30 Parcel I 2nd Election Dist LOT NO. _____

ROAD AND DESCRIPTION Centennial Lane app 2000 ft North of 108
Opp in rear of K. E. Carey House

SIZE OF LOT 10 AC TYPE BLDG. House
NUMBER OF BEDROOMS _____

IF NOT SINGLE RESIDENCE DESCRIBE _____

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE

SIGNATURE OF APPLICANT John J. Moorberg

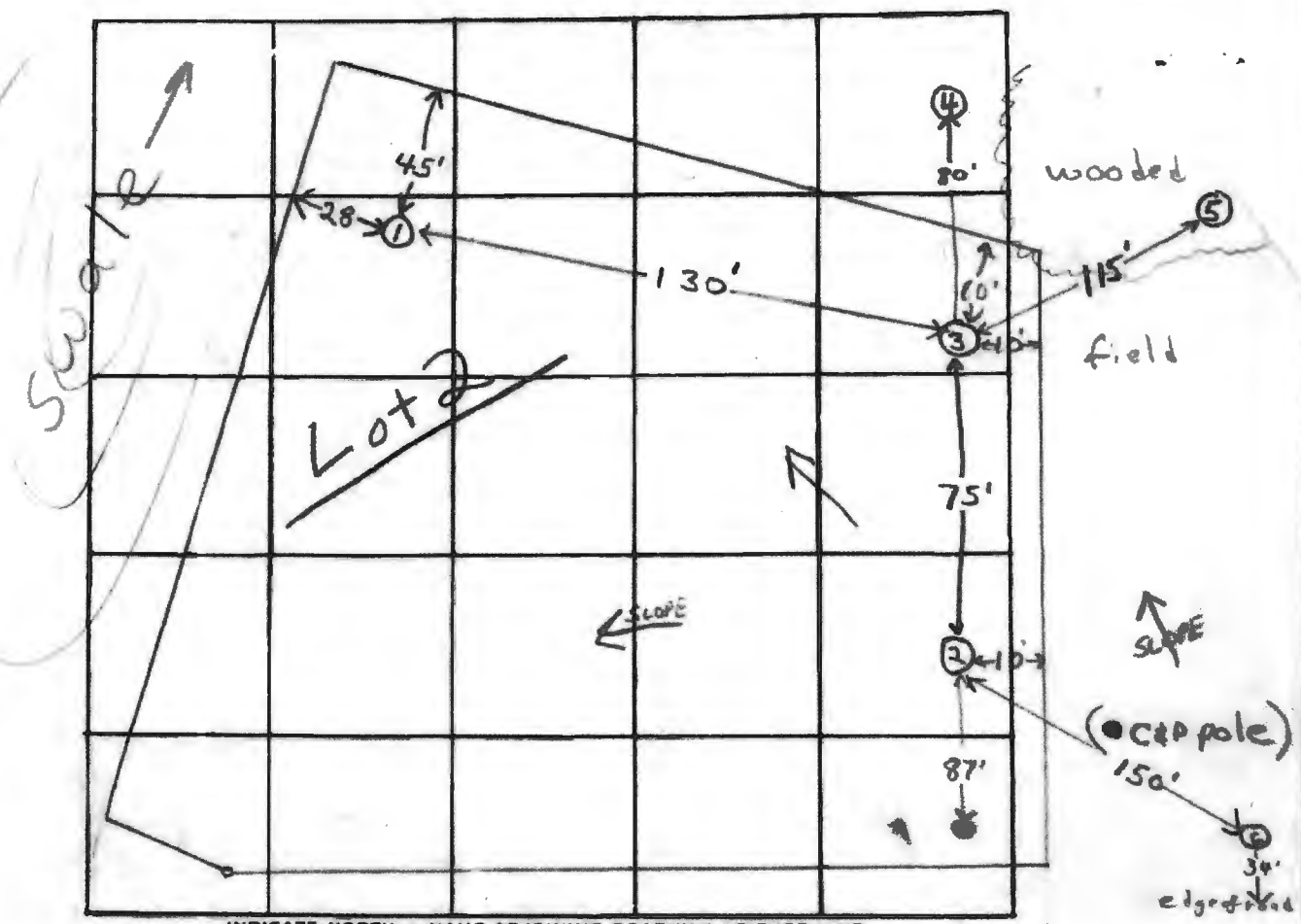
APPROVED BY _____ FOR _____ DATE _____
(KIND OF SYSTEM)

REJECTED BY _____ FOR _____ DATE _____
(KIND OF SYSTEM)

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING _____

THIS IS NOT A PERMIT



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Centennial Lane

3
 0'
 clay
 5'
 mixed
 1'
 (tan) sandy clay loam
 13'
 3 10
 0'
 clay
 5'
 (red-orange) sandy clay loam
 15'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
6/16/77	1	3 1/2'	11:13	11:53	11:53		Fails	
	1A	11 1/2'	11:14	11:51	11:51		Fails	
	2	4'	11:35	12:02	12:02	pulled at 12:32 1/2" drop	Fails	
	3A	11 1/2'	11:36	11:57	11:57	12:25	28 min dug to 13' dry hole	
	3	10 1/2'	Clay to 6' sandy clay loam below					
	3A	4'	1:42	pulled plug 2:20 1/2" drop			Fails	
	3B	11 1/2'	1:43	2:00	2:00	2:24	24 min dug to 13' dry hole	
	4	6'	Water at 4 1/2' clay 0-4 1/2'; misc silt below					
	5	11'	Water at 8 1/2' clay 0-6'; clay loam below					
	3C	5'	3:08	3:38	3:38		FAILS	

REMARKS _____
 TYPE OF SOIL see soil profile
 TESTED BY ES. ALSO PRESENT: Bartholomew, Bill Miller, J. S. Mosby

2B

5'

3:14

3:25

3:25

3:51

26 min.

6

9'

Water at 9'; Clayey to -5; silty 5-9'

SHEET INDEX	
NO.	DESCRIPTION
1	PERC CERTIFICATION PLAN - OVERALL
2	PERC CERTIFICATION PLAN

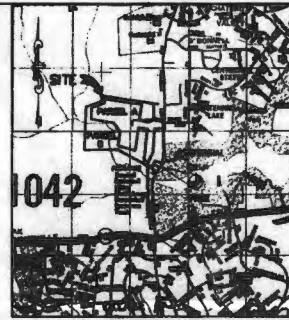
PERC CERTIFICATION PLAN

4560 CENTENNIAL LANE

PARCEL B

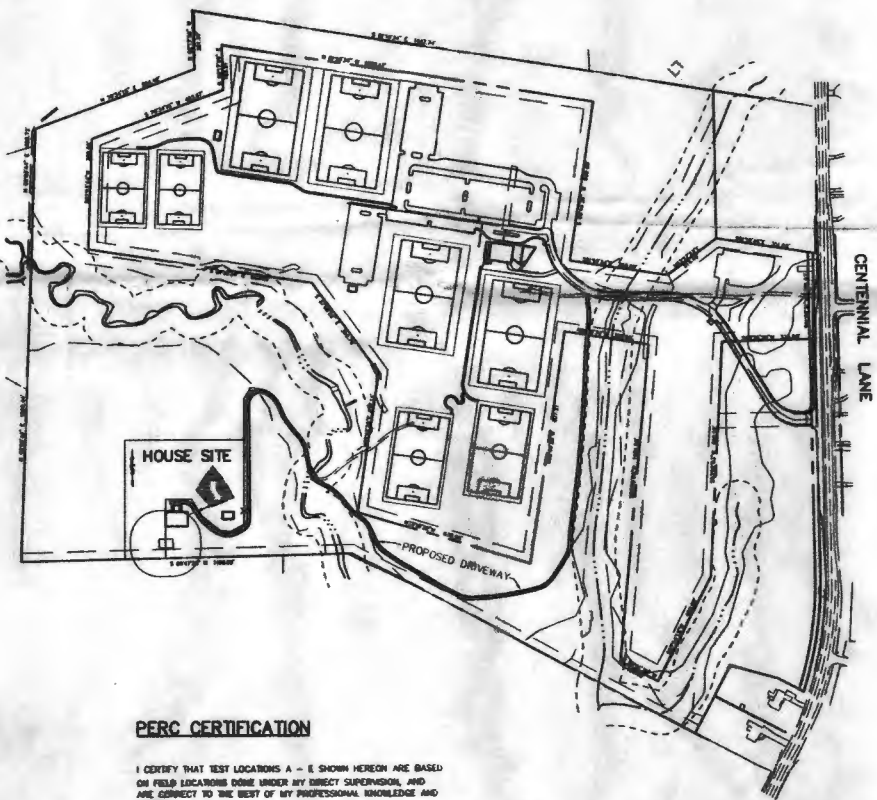
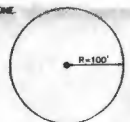
2nd ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



GENERAL NOTES

1. THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR PRIVATE SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. 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 A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
2. PERC TEST LOCATIONS SHOWN HEREON HAVE BEEN FIELD LOCATED BY PHRA DATED DECEMBER 2003.
3. 14 NOTICES PASSING PERC TEST.
4. 14 NOTICES FAILED PERC TEST.
5. SUBJECT PROPERTY IS ZONED RC-DEO.
6. WELL AND SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY BOUNDARY HAVE BEEN SHOWN TO THE BEST OF OUR KNOWLEDGE AND INFORMATION.
7. THE LOT SHOWN HEREON COMPLES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA REQUIREMENTS SET FORTH BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
8. TOPOGRAPHY SHOWN HEREON IS AERIAL MAP'S FLOREN IN MARCH 2000 BY FISHER COLLINS & CARTER AND SUPPLEMENTAL FIELD RUN TOPOGRAPHY PROVIDED BY PHRA IN DECEMBER 2003.
9. DETERMINE NEAR ZONE.
10. ALL STEEP SLOPES (25% OR GREATER) AFFECTING THE LOT AREAS HAVE BEEN SHOWN.
11. ALL PLANS TO BE SUBMITTED PRIOR TO FINAL PLAT RECORDATION.
12. GENERAL WATER APPROPRIATION PERMIT TO BE OBTAINED PRIOR TO RECORD PLAT.
13. AVERAGE PERC TIME IS 11 MINUTES FOR FIVE HOLES. BOTTOM OF TRENCH TO BE MINIMUM 7.5' DEEP. INLET TO BE BETWEEN 3 AND 4 FEET, WITH BETWEEN 3.5 TO 4.5 FEET OF STONE.



SITE TABULATION

1. GROSS AREA OF TRACT	115.316
AREA OF PARCEL A	52.345
AREA OF PARCEL B	62.971
2. ZONING OF TRACT	RC-DEO

SEWER BIDS MUST BE ON PUBLIC WATER & SEWER. PRIVATE RESIDENCE AT 4560 CENTENNIAL LANE. SHALL BE ON PRIVATE WATER/SEWER. ONE LOT DOES NOT NEED SEWER/WATER APPROPRIATION PERMIT. 2/2/04

PERC CERTIFICATION

I CERTIFY THAT TEST LOCATIONS A - E 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

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.	
<i>[Signature]</i>	2-2-04
COUNTY HEALTH OFFICER	DATE
HOWARD COUNTY HEALTH DEPARTMENT	2/2/04
DATE	REVISION
CONTRACT PURCHASER	ORSH GIBSONS
c/o ERWIN L. GIBSONS COMMERCIAL CORP.	
15000 RED HILL BLVD. SUITE 108	
GIBSONS HILLS, MARYLAND 21117	
410-266-2518	
PROJECT	4560 CENTENNIAL LANE
	PARCEL B
AREA	TAX MAP 30 BLOCK 1 ZONED RC-DEO
	GOVERNMENT BAPTIST CHURCH OF WEST COLUMBIA
	PARCEL B PLATS 19602-19607
	2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE	PERC CERTIFICATION PLAN
	OVERALL
Patton Harris West & Associates, P.A.	
Engineers, Surveyors, Planners, Landscape Architects.	
6048 Centre Park Drive	
Columbia, MD 21048	
T 410.887.8300	
F 410.887.8302	
DATE	AS SHOWN
DESIGNED BY	PH
PROJECT NO.	00007
DATE	JANUARY 30, 2004
SCALE	1" = 200'
DRAWING NO.	1 OF 2

MAF & Associates, LLC
526 Hoods Mill Road
Woodbine MD 21797
Phone (410) 552-5541
Fax (410) 552-5546

.....
March 17, 2017

Bureau of Environmental Health
8930 Stanford Boulevard
Columbia, MD 21045

RE: Revised Percolation Certification Plan
Berg Residence
4580 Centennial Lane, Ellicott City, MD. 21042

To Whom It May Concern:

We are requesting approval for a revised percolation certification plan for the above referenced property. We are proposing to relocation 1,236 square feet of the 10,000 sewage easement area. We are proposing this relocation to allow for the placement of new septic trenches and to allow room for a proposed house addition. This addition requires the removal and installation of 3 existing septic trenches as well as the relocation of the sewage easement.

We have attached a new plan showing this proposal as well as 2 sets of construction plans. We have submitted a set of plans showing the existing house layout as well as a set of plans showing the proposed house addition.

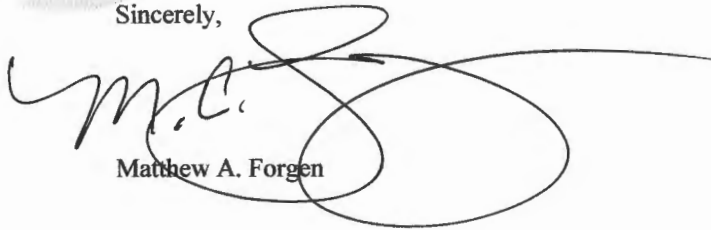
We feel that this request is not detrimental to the public health or the environment.

Approval of this request would not affect the adjacent properties. This plan does not interfere with the neighboring properties septic systems or water wells in any way.

We feel that based on the items listed above that the requested revisions should be approved.

Any questions or comments please do not hesitate to call.

Sincerely,



Matthew A. Forgen

.....



HOWARD COUNTY HEALTH DEPARTMENT

60623

DATE 4/20/17

A5

Received From

Wojcik Construction

PHONE #

For

Peric APP / 4580 Centennial Lane

CASH

CHECK

NO.

1713

Five hundred and no/100

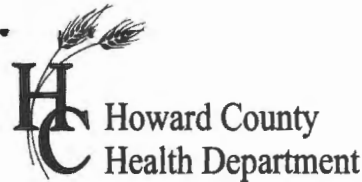
Dollars

\$

506 00

Received By

J. King



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AVP 5/26/23

AGENCY REVIEW: _____

DATE 4/26/17

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 Relocate existing for addition to existing home which encroaches on septic tank only
- 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 six (6) 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) Berg, Scott & Lisa

DAYTIME PHONE _____ CELL (S) 443-939-0656 FAX _____

MAILING ADDRESS 12844 MacBeth Farm Lane Clarksville MD 21029
STREET CITY/TOWN STATE ZIP

APPLICANT Greg Vogel- Molior Construction, LLC

DAYTIME PHONE _____ CELL 410-804-5957 FAX 443-689-7201

MAILING ADDRESS 10401 Stevenson Lane Stevenson MD 21153
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME _____ LOT NO. _____

PROPERTY ADDRESS 4580 Centennial Lane, Ellicott City, MD 21042
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 30 GRID 0001 PARCEL(S) 0001 PROPOSED LOT SIZE 62.97 AC

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

COUNTY #

SOIL PROFILE

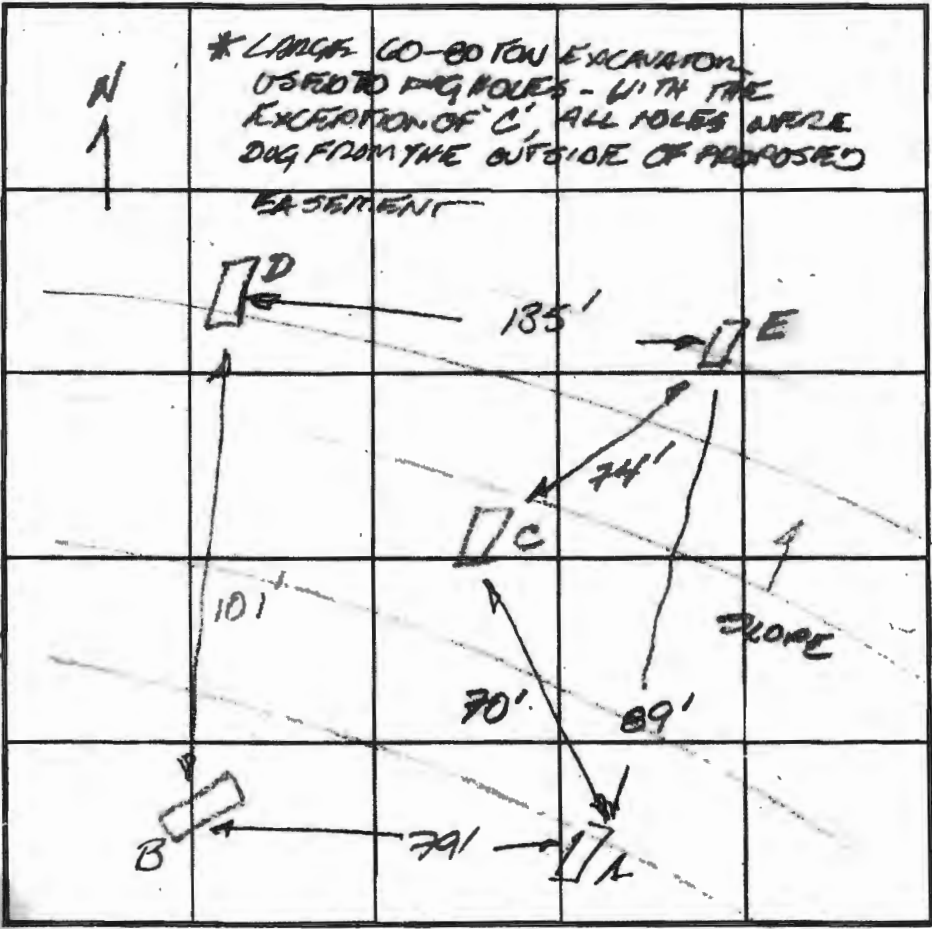
0' Brown loam 5"
 Yellow Brown clay clay loam 6 1/2"
 Brown Silty loam 15 1/2"
 Rock 13 1/2"

A
 Brown loam 6"
 Yellow Brown clay clay loam 4"
 Brown Silty loam 6 1/2"
 Silty loam 6 1/2"
 Yellow Brown clay clay loam 15 1/2"
 Rock 15"

B
 Brown loam 1"
 Yellow Brown clay clay loam 7 1/2"
 Brown Silty loam 15 1/2"
 Silty loam 15 1/2"
 Yellow Brown clay clay loam 15 1/2"
 Rock 15"

C
 Brown loam 1"
 Yellow Brown clay clay loam 7 1/2"
 Brown Silty loam 15 1/2"
 Silty loam 15 1/2"
 Yellow Brown clay clay loam 15 1/2"
 Rock 15"

D
 Brown loam 1"
 Yellow Brown clay clay loam 7 1/2"
 Brown Silty loam 15 1/2"
 Silty loam 15 1/2"
 Yellow Brown clay clay loam 15 1/2"
 Rock 15"



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

* LARGE 60-80 TON EXCAVATOR USED TO DIG HOLES - WITH THE EXCEPTION OF 'C', ALL HOLES WERE DUG FROM THE OUTSIDE OF PROPOSED EASEMENT

SOIL PROFILE

0' Brown loam 6"
 Yellow Brown clay clay loam 6 1/2"
 Brown Silty loam 6 1/2"
 Silty loam 15 1/2"
 Rock 15"

C
 Brown loam 1"
 Yellow Brown clay clay loam 7 1/2"
 Brown Silty loam 15 1/2"
 Silty loam 15 1/2"
 Yellow Brown clay clay loam 15 1/2"
 Rock 10"

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
12/13/03	E	7 13 1/2'	10 42	10 43	10 47	10 58	1 hour
	A	7 15'	10 55	11 06	11 06	11 18	12 min
	B	6 15'	11 06	11 21	11 21	11 44	24 min
	D	7 15'	11 22	11 29	11 29	11 34	7 min
	C	7 1/2 14'	11 40	11 42	11 42	11 45	3 min

REMARKS: TRENCHES NOT TO BE SHALLOWER THAN 7 1/2' NICK-EXCAVATOR
 TYPE OF SOIL: Allen
 TESTED BY: FR NICK (Red)
 ALSO PRESENT: BARRY-FORREMAN
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME: _____ TRENCH WIDTH: 3'
 INLET DEPTH: 3-4' MAXIMUM BOTTOM DEPTH: 7 1/2' SQ. FT./BEDROOM: _____

4580 Centennial Lane

A/P

Letter "I"

Letter "F"
Red Brown
yellow
Sh
4.8'

Red Brown
yellow
Sh
many mica
5.8'

Red Brown
yellow
Sh
many mica
9'

Letter "L"
Red Brown
yellow
Sh

Red Brown
yellow
Sh
↓
13'

Red Brown
yellow
Sh
14.1'

Red Brown
yellow Sh
many mica

3.8 Letter "J"
Red Brown
yellow
Sh
5.9'

Letter "G"
Red Brown
yellow
Sh
6.5'

Red Brown
yellow
F Sh
Letter "L"

Red Brown
yellow
Sh
many mica
8'

Red Brown
yellow
Sh
many mica
↓
12'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5-17-17	F	5.5/14	11:23	11:28	11:33	5min	P
5-17-17	G	7/14	12:55	12:59	1:08	9min	P
5-17-17	H	7/13	12:38	12:44	12:56	12min	P
5-17-17	I	6.5/13	12:24	12:33	12:40	7min	P
5-17-17	J	6.5/13	12:12	12:16	12:20	4min	P
5-17-17	K	5/15	10:21	10:28	10:38	10min	P
5-17-17	L	4.5/12	10:35	10:40	10:48	8min	P
5-17-17							

Red Brown
F Sh yellow
↓
14'

Letter "K"
Red Brown
yellow
Sh
4.6'

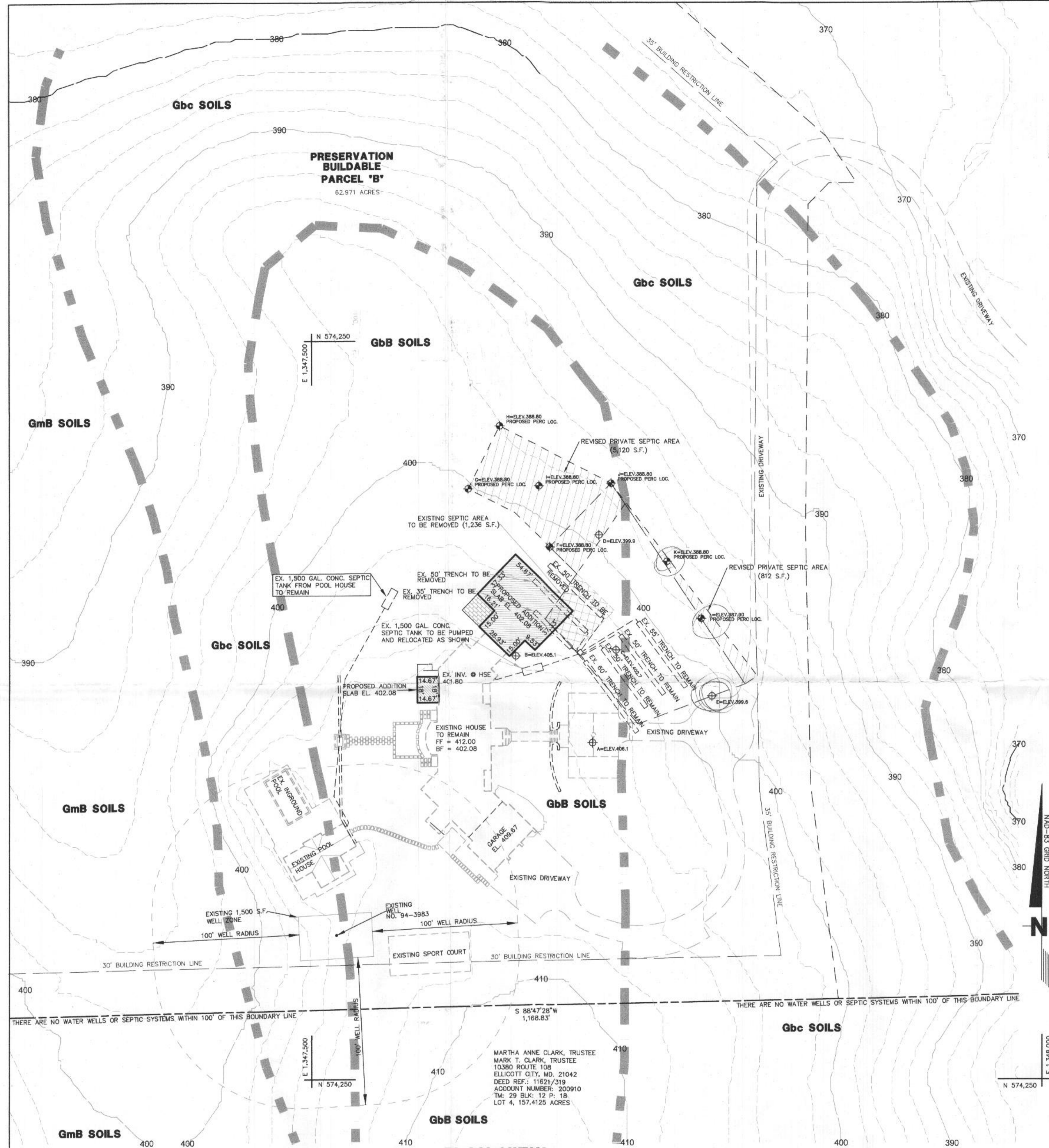
Letter "H"
Red Brown
yellow
Sh
6.7'

Red Brown
yellow
many mica
Sh
8.5'

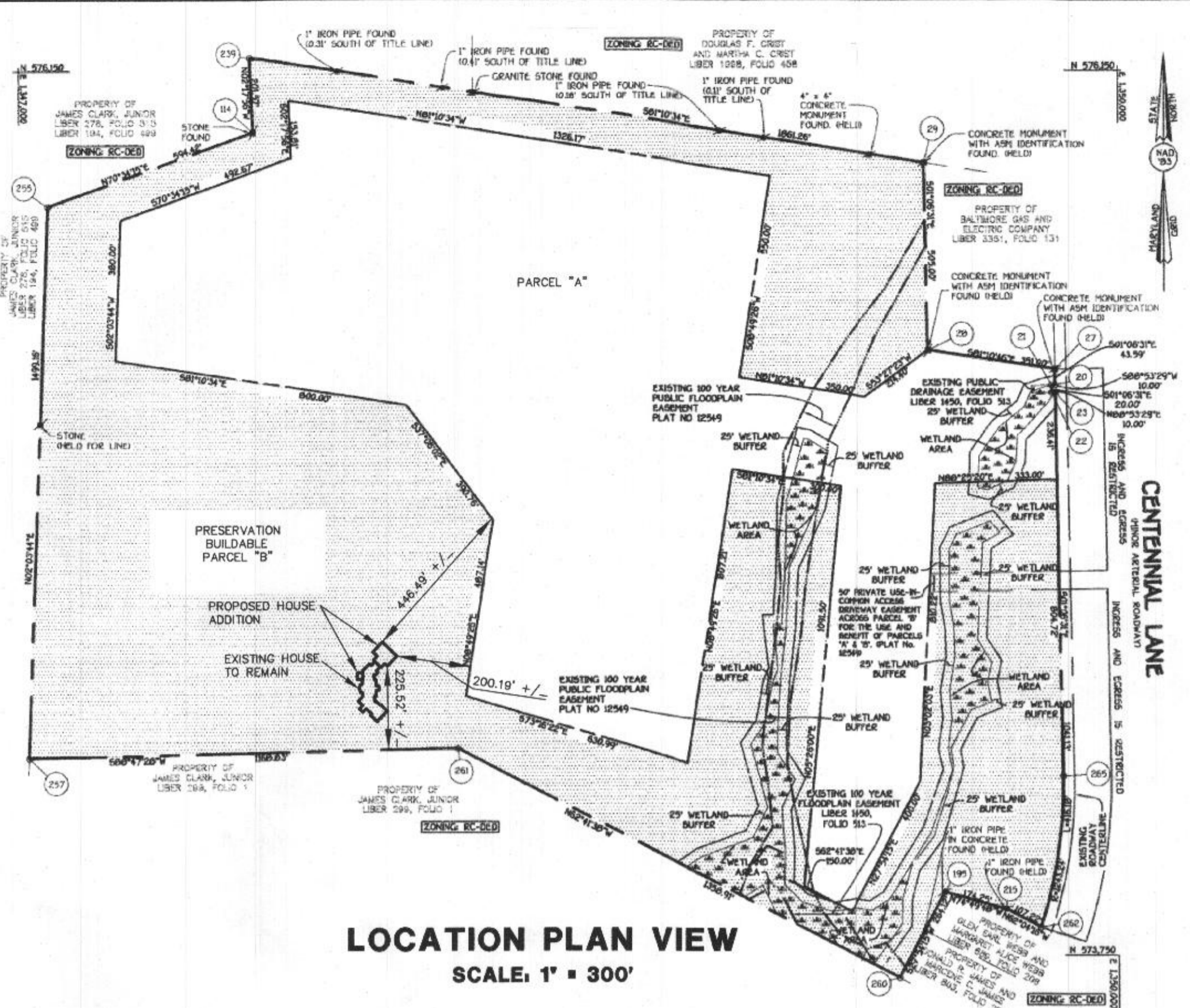
Red Brown
yellow
Sh
many mica
↓
13'

Red Brown
yellow
F Sh
15'

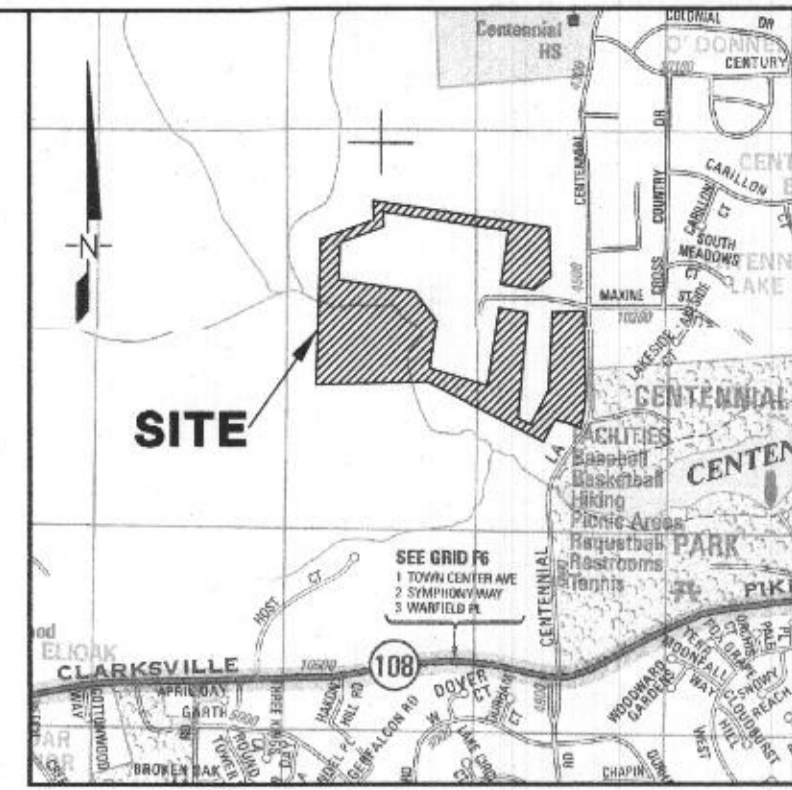
REMARKS Testing for addition
 SANITARIAN D. Bernard BACKHOE _____ OTHERS _____
 TEST HOLES USED IN SDA 1 AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____



PLAN VIEW
SCALE: 1" = 40'



LOCATION PLAN VIEW
SCALE: 1" = 300'



VICINITY MAP
SCALE: 1" = 2,000'
ADC MAP: 15, GRID: E1
Copyright ADC The Map People
Permitted Use Number 2071191

GENERAL NOTES:

1. THIS SITE CONSISTS OF 62.971 ACRES.
2. TAX ACCOUNT NUMBER: 383861
3. EXISTING USE: SINGLE FAMILY DWELLING
4. PROPOSED USE: SINGLE FAMILY DWELLING ADDITION
5. PROPERTY ADDRESS: 4580 CENTENNIAL LANE, ELLICOTT CITY, MD. 21045
6. OWNER: ROBERT SCOTT BERG, LISA ANNETTE BERG, 4580 CENTENNIAL LANE, ELLICOTT CITY, MD. 21045, PHONE: 443-939-0656
7. DEVELOPER: ROBERT SCOTT BERG, LISA ANNETTE BERG, 4580 CENTENNIAL LANE, ELLICOTT CITY, MD. 21045, PHONE: 443-939-0656
8. NO PROPERTY LINE SURVEY HAS BEEN MADE AT THIS TIME.
9. THE EXISTING UTILITIES HAVE NOT BEEN FIELD VARIATED AT THE TIME. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE LOCATION OF THE EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY GRADING ACTIVITY.
10. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.

PURPOSE NOTE:

THE PURPOSE OF THIS PLAN IS TO REVISE THE 10,000 SQUARE FOOT SEPTIC AREA. THIS REVISION IS TO ALLOW FOR THE RELOCATION OF SEPTIC TRENCHES FOR A HOUSE ADDITION TO BE PLACED ON SITE.

TOPOGRAPHY NOTE:

THE TOPOGRAPHY SHOWN ON THIS PLAN WAS TAKEN FROM EXISTING APPROVED DRAWING ON FILE WITH THE HOWARD COUNTY BUREAU OF ENVIRONMENTAL HEALTH.

WELL LOCATION NOTE:

ALL EXISTING WELLS ON THE SUBJECT PROPERTY AND WITHIN 100 FEET OF SUBJECT PROPERTY BOUNDARIES ARE REPRESENTED TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NOTE:

THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.

BOUNDARY AND LOCATION NOTE:

THE LOT BOUNDARY IS TAKEN FROM THE FINAL PLAT NUMBER 16986. THE HOUSE AND SEPTIC AREA LOCATION ARE TAKEN FROM THE PREVIOUSLY APPROVED SITE DEVELOPMENT PLAN.

"MDE SEWAGE EASEMENT STATEMENT"

"THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. 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 PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED EASEMENT SHALL NOT BE NECESSARY."

"Approval for private water and private sewerage systems"

Health Officer _____ Date _____

PROFESSIONAL CERTIFICATION

PROFESSIONAL CERTIFICATION: I, MICHAEL J. WERNER, 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. 23380, EXPIRATION DATE: 8-18-18.

Signature: *[Signature]* Date: *sklin*
Name: Michael J. Werner
Firm Name: M.A.F. & ASSOCIATES, LLC
Address: 526 HOODS MILL ROAD, WOODBINE MD. 21797



LEGEND

- - - - - Existing Grade
- ⊕-ELEV. 399.0 PASSING PERCOLATION TEST HOLE LOCATION
- ⊕-ELEV. 387.00 PROPOSED PERCOLATION TEST HOLE LOCATION
- Gbc SOILS
- GbB SOILS
- GmB SOILS
- SOIL BOUNDARY LINE
- SOIL CLASSIFICATION
- EXISTING SEPTIC AREA
- REVISED PRIVATE SEPTIC AREA
- EXISTING SEPTIC AREA TO BE REMOVED
- REVISED PRIVATE SEPTIC AREA TO BE ADDED

M.A.F. & ASSOCIATES, LLC
526 HOODS MILL ROAD
WOODBINE MD. 21797
PHONE: 410-552-5541
FAX: 410-552-5546

SHEET 1 of 1

PERCOLATION TESTING PLAN

**BERG RESIDENCE
AT 4580 CENTENNIAL LANE
ELLICOTT CITY MD. 21042**

2ND DISTRICT
SCALE: AS SHOWN
TAX MAP 30

HOWARD COUNTY, MARYLAND
DRAWN ON: MARCH 16, 2017
PARCEL 001

BLOCK 1
ZIPCODE: 21042