

# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_

AP 555718

AGENCY REVIEW: \_\_\_\_\_

DATE 1-22-15

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 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) JOSEPH J. SPELLMAN

DAYTIME PHONE 301-661-6413 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 18000 HIGHFIELD ROAD, ASHTON, MD 20861  
STREET CITY/TOWN STATE ZIP

APPLICANT OWNER

DAYTIME PHONE \_\_\_\_\_ CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME SPELLMAN PROPERTY LOT NO. \_\_\_\_\_

PROPERTY ADDRESS 2425 MILLERS MILL ROAD, COOKSVILLE, MD 21723  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 0014 GRID 0004 PARCEL(S) 0268 PROPOSED LOT SIZE 1.94 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. Joseph J. Spellman  
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

#3004  
Red Brown  
yellow  
Sch  
5'

Red Brown  
Grey  
Sch  
5-10%  
R4  
H2O  
in the  
Bottom  
15'

#3005  
Red Brown  
yellow  
Sch  
3.5'

Red Brown  
yellow  
Sh  
Cave in  
@ 8.5  
H2O in  
the Bottom  
12'

#3006  
Red Brown  
Sch

Red Brown  
yellow  
Sch  
moist @  
Cave in  
@ 9.5  
H2O in  
the bottom  
12'

2425  
Millers Mill

# P-1 (3001)

Red Brown  
Sch  
Dense 3.5

Red Brown  
yellow  
many  
nicks  
Sh  
H2O in  
the bottom  
@ 8' 10

P-6  
Red Brown  
yellow  
Sch 4'

Red Brown  
yellow  
Sh  
5-10%  
R4  
H2O in  
the bottom  
@ 12.5 13

P-7  
Red Brown  
yellow  
Sch 3.5

Red Brown  
yellow  
Sch  
5-10%  
R4  
↓ 14.5

| DATE   | TEST #      | DEPTH       | START     | BREAK<br>1" DROP | STOP<br>2" DROP | TIME OF<br>2ND INCH | P/F/H |
|--------|-------------|-------------|-----------|------------------|-----------------|---------------------|-------|
| 5-7-15 | 3004        | 15          | NO Buffer |                  |                 | →                   | F     |
| 5-7-15 | P-5<br>3005 | 5.5<br>12   | 10:41     | 10:50            | 10:59           | 9 min               | P     |
| 5-7-15 | P-2<br>3002 | 4.5<br>12   | 11:15     | 11:33            | 11:52           | 2 min               | P     |
| 5-7-15 | P-1<br>3001 | 4<br>8      | 11:30     | 11:37            | 11:47           | 10 min              | P     |
| 5-7-15 | P-6         | 4.5<br>13   | 11:54     | 11:58            | 12:07           | 9 min               | P     |
| 5-7-15 | P-7         | 4.5<br>14.5 | 12:08     | 12:11            | 12:15           | 4 min               | P     |
|        |             |             |           |                  |                 |                     |       |
|        |             |             |           |                  |                 |                     |       |
|        |             |             |           |                  |                 |                     |       |

REMARKS Sand mound next door.  
 SANITARIAN Bevard BACKHOE Hatfield OTHERS \_\_\_\_\_  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE S/W \_\_\_\_\_

# BENCHMARK



## ENGINEERING, INC.

8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043  
 410-465-6105 410-465-6644 (Fax)

### LETTER OF TRANSMITTAL

|           |                        |             |      |
|-----------|------------------------|-------------|------|
| DATE      | 1/2/17                 | PROJECT No. | 2048 |
| ATTENTION | MS. DANA BERNARD       |             |      |
| RE:       | 2025 MILLERS MILL ROAD |             |      |
|           | SEELMAN PROPERTY       |             |      |
|           | REVISED. PERC. CERT.   |             |      |
|           |                        |             |      |
|           |                        |             |      |

TO: HOWARD COUNTY  
HEALTH DEPT.  
ENVIRONMENTAL HEALTH  
WELL & SEPTIC

- WE ARE SENDING YOU
- Attached
  - Under separate cover via \_\_\_\_\_ the following items
  - Photocopies
  - Prints
  - Originals
  - Samples
  - Specifications
  - Invoices
  - Change Order
  - Other \_\_\_\_\_

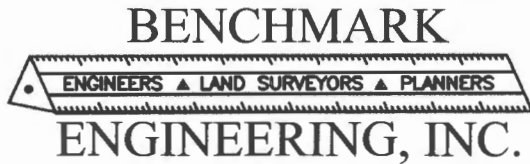
| COPIES of | No. of SHEETS | DESCRIPTION             |
|-----------|---------------|-------------------------|
| 1         | 1             | COVER LETTER            |
| 1         | 1             | HO. CO. CORRESPONDENCE. |
| & 3       | 1             | REVISED PERC CERT PLAN  |
|           |               |                         |
|           |               |                         |
|           |               |                         |
|           |               |                         |
|           |               |                         |

- THESE ARE TRANSMITTED as checked below
- For Comment
  - For your use
  - For Approval
  - For Review
  - As requested
  - Other \_\_\_\_\_

REMARKS: IF YOU REQUIRE FURTHER ASSISTANCE, PLEASE  
CONTACT OUR OFFICE

COPY TO: \_\_\_\_\_  
 RECEIVED BY: [Signature]  
 If enclosures are not as noted, kindly notify us at once.

SIGNED: [Signature]  
 MICHAEL C. RODEL



Christopher A. Malagari, P.E., President  
Donald A. Mason, P.E., Vice President

Ellicott City, MD      Frederick, MD  
410-465-6105      301-710-5686  
410-465-6644 Fax

January 12, 2017

Ms. Dana Bernard  
Well and Septic Program  
Howard County Health Department  
8930 Stanford Blvd.  
Columbia, MD 21045

Re: Millers Mill Road, Tax Map 14, Parcel 268  
2425 Millers Mill Road – Joseph J. Spellman  
Percolation Certification Plan

Ms. Bernard:

In response to the correspondence from Sarah Collins dated January 6, 2017, we are providing 3 copies of the Revised Percolation Certification Plan for your use.

If you have any questions or require further assistance, please feel free to contact our office.

Sincerely,

Michael C. Riedel

*J:\2648 Miller Mill\documents\1-11-17\_Cover\_Rev Perc.doc*

# APPLICATION

PERCOLATION TESTING

A 49792

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 313-2840

DISTRICT Fourth

DATE Dec 8 1993

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER Warren & Vincent Johnson

ADDRESS \_\_\_\_\_ PHONE 301-797-1916

AGENT OR PROSPECTIVE BUYER Prosetter Homes, Inc

ADDRESS P.O. Box 841 Ellicott City <sup>21041</sup> PHONE 410-750-0791

PROPERTY LOCATION:

SUBDIVISION N/A LOT NO. N/A

ROAD AND DESCRIPTION Property is located on Route 97, just north of Millers Mill Road.

TAX MAP 14 PARCEL # 139

SIZE OF LOT 1+ acre TYPE BLDG. Single Family Dwelling  
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE

FEE CONNECTED WITH THE FILING OF THIS PERC. TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO

COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT. [Signature]  
(SIGNATURE OF APPLICANT)

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

DISAPPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

# THIS IS NOT A PERMIT

TM 14 P 139 A 49792

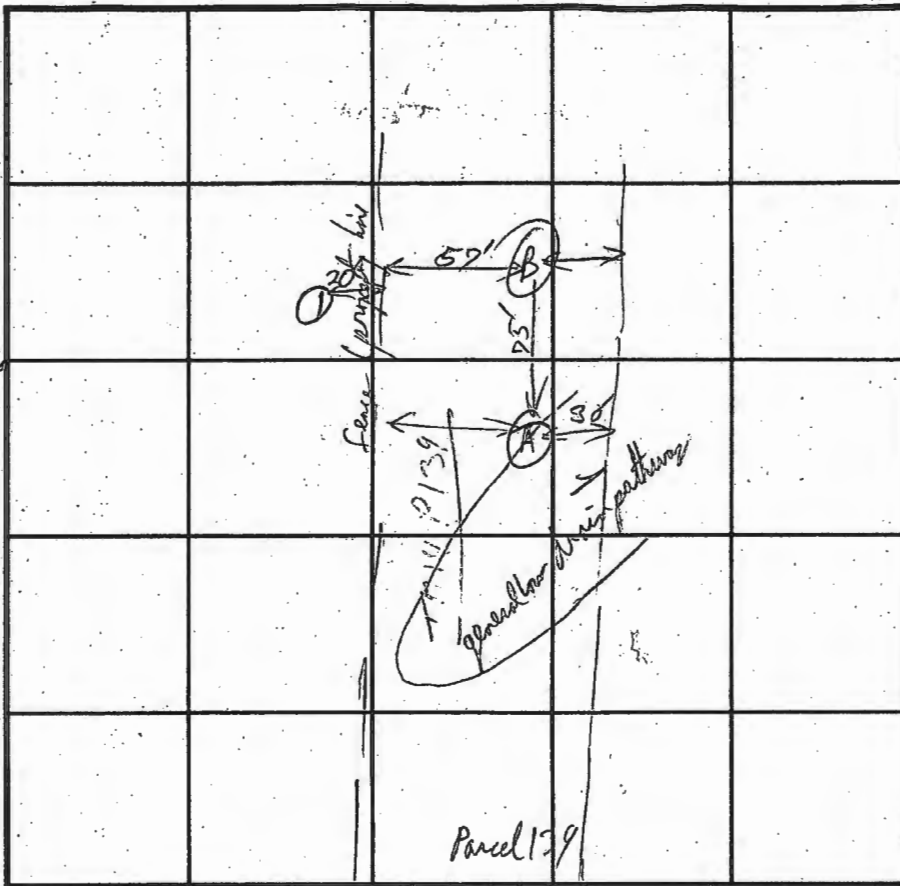
COUNTY #

SOIL PROFILE

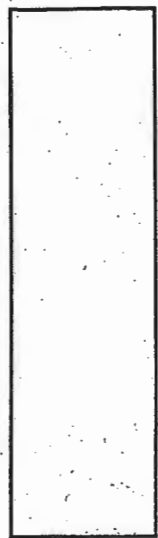
0' A  
 Black-V. clay  
 1.5' L (10YR 3/2)  
 14'  
 yellow silt  
 in 2d. (10YR 8/2)  
 21'  
 20YR 8/2  
 25'  
 Gray mottled silt  
 10YR 5/2  
 25'  
 Gray silt  
 10YR 5/2  
 50'  
 yellow brown  
 10YR 5/2  
 62'  
 mottled gray  
 10YR 5/2  
 14'  
 active water  
 seepage below  
 + clearing

B

Black to dark  
 Gray silt  
 12-16'  
 Red brown silt  
 10YR 5/2  
 2 1/2'  
 20YR 5/2  
 3-4'  
 gray mottled  
 10YR 5/2  
 6'  
 active water  
 seepage below  
 13'



SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Holes  
 A+B on Parcel 139  
 Not suitable for sand  
 permeability tests in upper  
 25ft and percolation  
 tests  
 2 1/2 ft  
 samples

| DATE   | TEST NO. | DEPTH | PRE-WET    |   | TEST - 1" DROP         |      | TIME |      |
|--------|----------|-------|------------|---|------------------------|------|------|------|
|        |          |       | START      | STOP  | START                  | STOP |      |      |
| 1/5/94 | A        | 14'   | Not tested | poured wt. 2-5'<br>several wt. 8ft and deeper | 2-5'<br>8ft and deeper |      | Fail |      |
|        | B        | 13'   | water @ 6' | clear   | not tested             |      |      | Fail |
|        |          |       |            |   |                        |      |      |      |
|        |          |       |            |   |                        |      |      |      |
|        |          |       |            |   |                        |      |      |      |
|        |          |       |            |   |                        |      |      |      |
|        |          |       |            |   |                        |      |      |      |
|        |          |       |            |   |                        |      |      |      |
|        |          |       |            |   |                        |      |      |      |

REMARKS Most of designated test area is a low drainage pattern of Glenville Soils (surface water in rate)

TYPE OF SOIL Glenville Chester Sand on Seaman Test only - Very fine sand and gravelly

TESTED BY RFP inky Extreme front or back of lots are only possible future  
 Test sites but may not be suitable - wet Seaman test only. ALSO PRESENT

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_

INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT./BEDROOM \_\_\_\_\_

## Williams, Jeffrey

---

**From:** Steven Krieg -MDE- <steven.krieg@maryland.gov>  
**Sent:** Thursday, January 19, 2017 4:46 PM  
**To:** Williams, Jeffrey  
**Cc:** Wolf, Kevin  
**Subject:** Re: well variance

I second that approach. Make sure they install the first system where the perc cert says they will.

On Wed, Jan 18, 2017 at 9:06 AM, Williams, Jeffrey <[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)> wrote:

Hi Steve. See attached perc cert where we approved a downgrade well variance about a year ago. After an inquiry from the engineer and taking a second look, it's my recommendation that we ease off on the BAT and LPD requirement for this given that the only portion of the SDA upgrade of the neighboring well is a portion of the 3<sup>rd</sup> system. I was thinking of a condition that the initial system must be installed where they show the initial system on the perc cert, which heads off in the other direction. Now that BAT isn't required anyway, it seems a bit extreme to require it now just to be set up for when the 3<sup>rd</sup> system is needed. Let me know what you think.

Jeff Williams

Program Supervisor, Well & Septic Program

Bureau of Environmental Health

Howard County Health Dept.

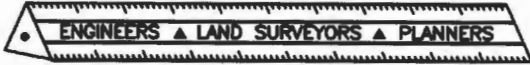
410-313-4261

[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)

### CONFIDENTIALITY NOTICE

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# BENCHMARK



## ENGINEERING, INC.

8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043  
 410-465-6105 410-465-6644 (Fax)

### LETTER OF TRANSMITTAL

|           |                         |             |      |
|-----------|-------------------------|-------------|------|
| DATE      | 6/08/15                 | PROJECT No. | 2648 |
| ATTENTION | MS. DANA BERNARD        |             |      |
| RE:       | 2425 MILLERS MILL POND  |             |      |
|           | REVISED PERC. CERT PLAN |             |      |
|           |                         |             |      |
|           |                         |             |      |
|           |                         |             |      |

TO: HO, CO, HEALTH DEPT  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items

Photocopies  Prints  Originals  Samples

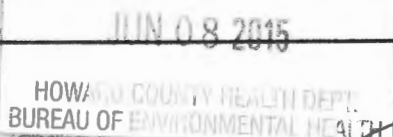
Specifications  Invoices  Change Order  Other \_\_\_\_\_

| COPIES of | No. of SHEETS | DESCRIPTION                |
|-----------|---------------|----------------------------|
| 3         | 1             | PERC. CERT. PLAN (REVISED) |
| 1         | —             | COMPUTATIONS               |
|           |               |                            |
|           |               |                            |
|           |               |                            |
|           |               |                            |
|           |               |                            |
|           |               |                            |

THESE ARE TRANSMITTED as checked below

For Comment  For your use  For Approval  
 For Review  As requested  Other \_\_\_\_\_

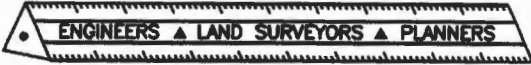
REMARKS: IN ACCORDANCE WITH YOUR CORRESPONDENCE DATED 5/20/15 BEI HAS MADE THE REQUIRED REVISIONS: 1) THE EXISTING WELL ON ADJOINING PARCEL 31 IS ADDED 2) THE SEPTIC & WELL AREAS ARE SHOWN & CONFIRMED 3) THE PRIMARY & 2 SECONDARY SEPTIC SYSTEMS ARE ADDED TO THE PLANS



COPY TO: \_\_\_\_\_  
 RECEIVED BY: [Signature]  
 If enclosures are not as noted, kindly notify us at once.

SIGNED: [Signature]  
 MICHAEL C. RIEDEL

# BENCHMARK



## ENGINEERING, INC.

8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043  
410-465-6105 410-465-6644 (Fax)

### LETTER OF TRANSMITTAL

TO: HO, CO. HEALTH DEPT.  
ENVIRONMENTAL  
HEALTH

|           |                               |             |             |
|-----------|-------------------------------|-------------|-------------|
| DATE      | <u>7/29/15</u>                | PROJECT No. | <u>2648</u> |
| ATTENTION | <u>MR. JEFF WILLIAMS</u>      |             |             |
| RE:       | <u>PERC. CERT. PLAN</u>       |             |             |
|           | <u>SPELLMAN PROPERTY</u>      |             |             |
|           | <u>2225 MILLERS MILL ROAD</u> |             |             |
|           | <u>SRD SUBMISSION</u>         |             |             |

WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items

Photocopies  Prints  Originals  Samples  
 Specifications  Invoices  Change Order  Other \_\_\_\_\_

| COPIES of | No. of SHEETS | DESCRIPTION                     |
|-----------|---------------|---------------------------------|
| <u>1</u>  | <u>3</u>      | <u>REVISED PERC. CERT. PLAN</u> |
|           |               |                                 |
|           |               |                                 |
|           |               |                                 |
|           |               |                                 |
|           |               |                                 |
|           |               |                                 |
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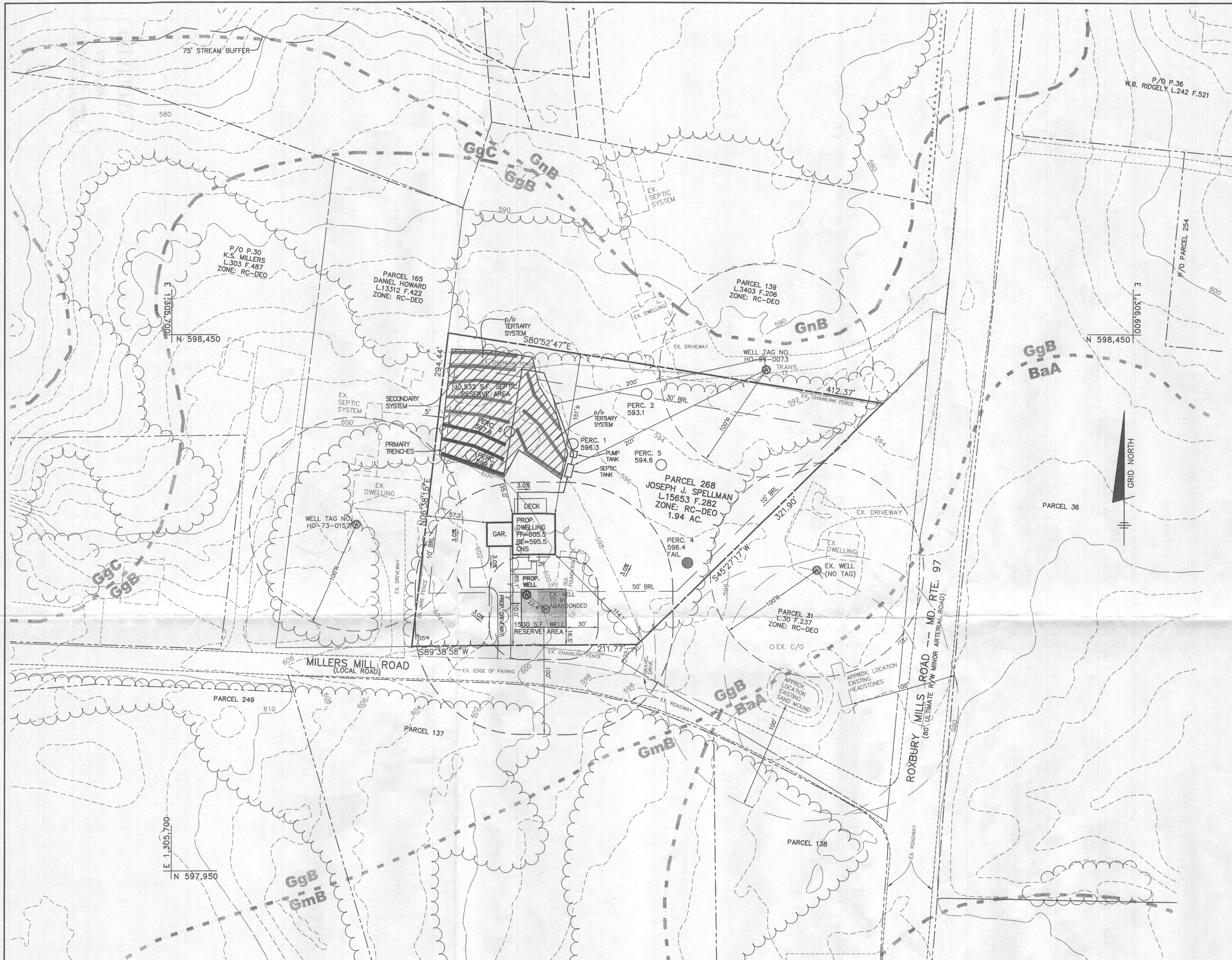
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REMARKS: IF YOU REQUIRE FURTHER ASSISTANCE, PLEASE  
CONTACT OUR OFFICE

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

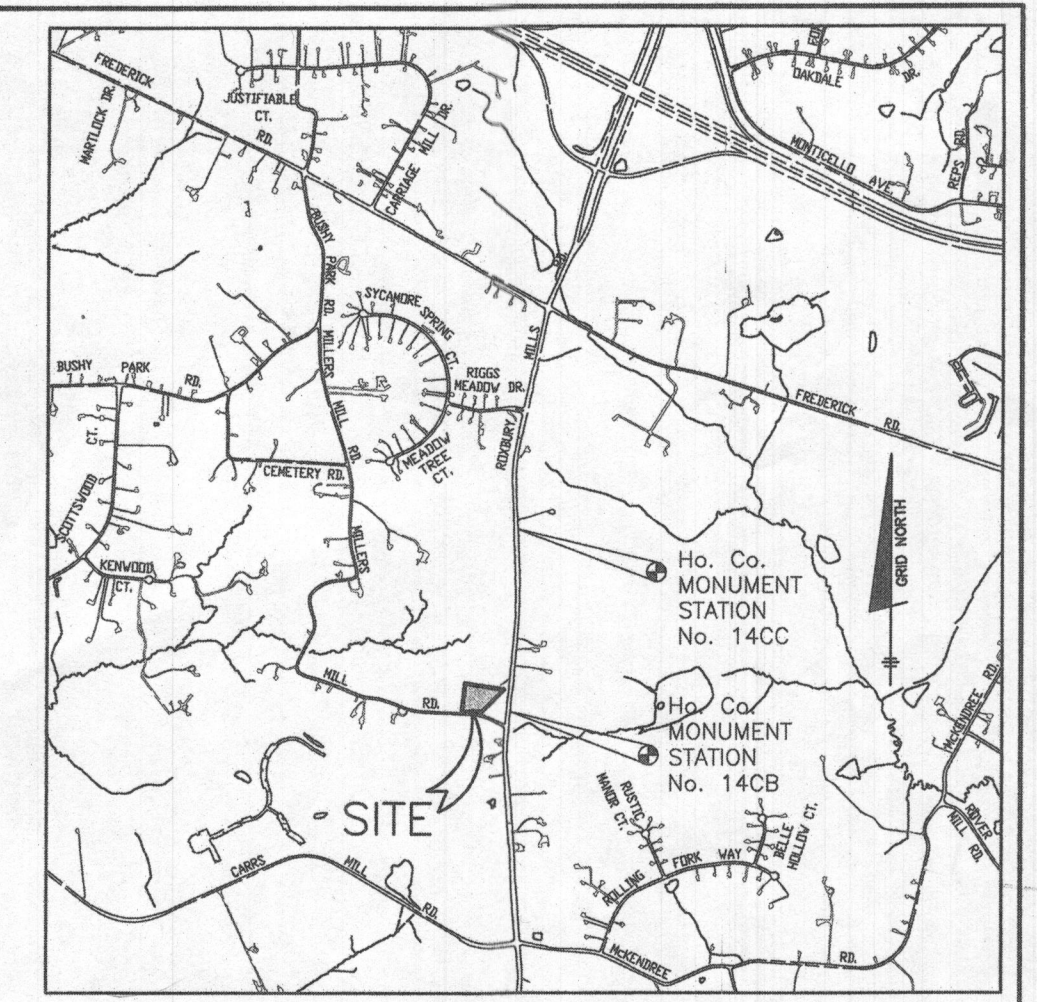
COPY TO: \_\_\_\_\_  
RECEIVED BY: [Signature]  
If enclosures are not as noted, kindly notify us at once.

SIGNED: [Signature]  
MICHAEL C. RIEDER



**LEGEND**

- SOILS CLASSIFICATION **GgC**
- SOILS DELINEATION
- EXISTING CONTOURS
- EXISTING WOODS LINE
- PROPOSED WOODS LINE
- EXISTING STRUCTURE
- EXISTING SEPTIC FIELD
- PROPOSED SEPTIC FIELD
- PROPOSED PERCOLATION PASSED
- PROPOSED PERCOLATION FAILED

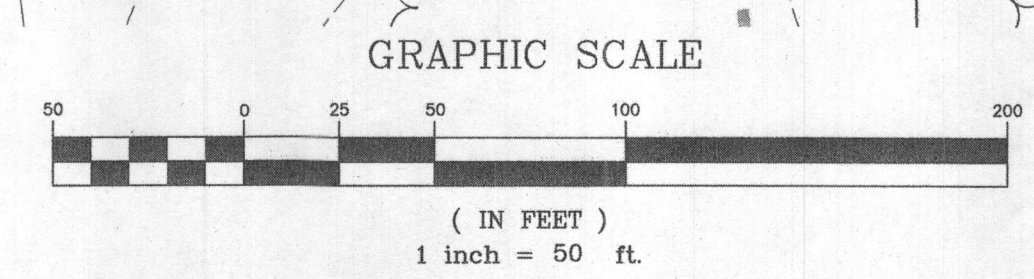


**BENCHMARK INFORMATION NAD83**

|   |   |
|---|---|
| Ho. Co. STATION 14CB<br>STAMPED DISC SET ON TOP OF<br>CONCRETE COLUMN 3.2' EAST<br>OF THE EDGE OF PAVING OF<br>MD ROUTE 97 AND 92.7'<br>SOUTH OF 8062 POLE No. 11 | Ho. Co. STATION 14CC<br>STAMPED DISC SET ON TOP OF<br>CONCRETE COLUMN 9.4' EAST<br>OF THE EDGE OF PAVING FOR<br>MD ROUTE 97 AND 28.1'<br>NORTH OF C&P POLE No. 11 |
| NORTHING: 598079.769'<br>EASTING: 1306428.226'<br>ELEVATION: 590.999'   | NORTHING: 599550.258'<br>EASTING: 1306517.768'<br>ELEVATION: 602.899'   |

**GENERAL NOTES**

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER 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 PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY.
2. THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT. THE LOT SIZE FOR THESE LOTS WILL FULFILL THE REQUIREMENTS OF THE ZONING REGULATIONS.
3. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
4. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY'S BOUNDARIES EXCEPT THAT WHICH ARE SHOWN. INFORMATION HAS BEEN REQUESTED FROM THE BUREAU OF ENVIRONMENTAL HEALTH CONCERNING THE ADJOINING PROPERTIES. THERE IS AN EXISTING WELL ON-SITE THAT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH HO.CO. HEALTH DEPT REGULATIONS.
5. THE EXISTING TOPOGRAPHY SHOWN IS TAKEN FROM HOWARD COUNTY GIS AND SUPPLEMENTED WITH FIELD-RUN TOPOGRAPHY PERFORMED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT JANUARY, 2015; CONTOUR ARE AT TWO-FOOT INTERVALS.
- TRACT OUTLINE WAS ESTABLISHED BY FIELD WORK PERFORMED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT JANUARY, 2015. TOPOGRAPHY FOR THE SEPTIC RESERVE AREA WAS FIELD SURVEYED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT MAY, 2015.
6. ALL WELLS TO BE DRILLED PRIOR TO BUILDING PERMIT APPROVAL. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE WELL DRILLING PRIOR TO BUILDING PERMIT SUBMISSION. IT WILL NOT BE CONSIDERED GOVERNMENT DELAY IF THE WELL-DRILLING HOLDS UP THE HEALTH DEPARTMENT APPROVAL OF THE BUILDING PERMIT.
7. AN ADVANCED PRE-TREATMENT SYSTEM, WHICH UTILIZES CURRENTLY ACCEPTABLE TECHNOLOGY TO PERFORM NITROGEN REDUCTION, MUST BE INSTALLED ON THE SEPTIC SYSTEMS FOR THIS PROJECT. THESE ADVANCED PRE-TREATMENT SYSTEMS SHALL BE LIMITED TO THE SYSTEMS LISTED IN THE WEBSITE FOR BAY RESTORATION FUND (BRF) BEST AVAILABLE TECHNOLOGY FOR REMOVING NITROGEN FROM ON-SITE SEPTIC SYSTEMS. A SUPPLEMENTAL SITE PLAN WITH ALL OF THE NECESSARY DETAILS FOR INSTALLATION OF THE SEPTIC SYSTEM WILL BE REQUIRED PRIOR TO THE RELEASE OF THE BUILDING PERMIT AND SYSTEM INSTALLATION PERMIT.
8. PERCOLATION TEST FEE RECEIPT NUMBER, REFERENCED IN THE APPROVING AUTHORITY CORRESPONDENCE IS A-555718.
9. THE PURPOSE OF THIS PERCOLATION CERTIFICATION IS TO ESTABLISH PRIVATE SEWERAGE EASEMENT AND TO ESTABLISH THREE (3) PROPOSED WELL SITES OR 1500 SQ. FT. OF WELL ZONE WITH ELLIPTICAL RADIUS OF 100 FEET AROUND THE ENTIRE SET/WELL ZONE FOR THE LOT SHOWN ON THIS PROPERTY.
10. MARYLAND DEPARTMENT OF THE ENVIRONMENT HAS ACCEPTED OUR VARIANCE REQUEST UNDER THE CODE OF MARYLAND REGULATIONS 26.04.02.05(C) TO ALLOW; THE PROPOSED SEWERAGE DISPOSAL SYSTEM SERVING ON THE JOSEPH J. SPELLMAN PROPERTY (2425 MILLERS MILL ROAD) TO BE LOCATED UP GRADIENT FROM THE EXISTING PRIVATE WATER WELL (40-94-0073) LOCATED AT 2204 ROXBURY MILL ROAD. DUE TO THE LANDSCAPE POSITION OF THE SEWERAGE AREAS AND WELL, THE REQUEST WAS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:
  1. AN ADVANCED PRE-TREATMENT SYSTEM WHICH UTILIZES BEST AVAILABLE TECHNOLOGY TO PERFORM NITROGEN REDUCTION AND LOW PRESSURE DOSING MUST BE INSTALLED ON THE SEWERAGE DISPOSAL SYSTEM AT 2425 MILLERS MILL ROAD. IN ADDITION, ONGOING MAINTENANCE IS REQUIRED. AN AGREEMENT ACKNOWLEDGING THE NEED FOR MAINTAINING A SERVICE CONTRACT WITH AN AUTHORIZED SERVICE PROVIDER MUST BE RECORDED IN THE HOWARD COUNTY LAND RECORDS FOR THIS LOT WITHIN 30 DAYS AFTER PLAT RECORDATION. BUILDING PERMIT APPLICATIONS FOR THE RESPECTIVE LOT WILL NOT BE APPROVED UNTIL SUCH AN AGREEMENT IS RECORDED. BEFORE A SEPTIC SYSTEM INSTALLATION PERMIT IS RELEASED FOR THE ADVANCED PRE-TREATMENT SYSTEM, A SITE PLAN MUST SUBMITTED WITH ALL NECESSARY DETAILS FOR INSTALLATION OF THE SYSTEM.



**SOILS LEGEND**

| MAP SYMBOL | SOIL GROUP | K-VALUE   | SOIL TYPE  |
|------------|------------|-----------|--|
| GgB        | B          | 0.20      | GLENELG LOAM, 3 TO 8 PERCENT SLOPES              |
| GnB        | C          | 0.37/0.32 | GLENVILLE-BAILE SILT LOAM, 0 TO 8 PERCENT SLOPES |
| GmB        | C          | 0.37      | GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES       |
| BaA*       | D          | 0.32      | BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES           |

FROM NATURAL RESOURCES CONSERVATION SERVICES WEB SOIL SURVEY 2.0  
\* HYDRIC SOILS

I 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.

*Michael C. Riedel* 1/17

PLAN PREPARER  
MICHAEL C. RIEDEL  
FOR BENCHMARK ENGINEERING, INC.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

*Michael C. Riedel* 1/23/2017  
HOWARD COUNTY HEALTH OFFICER DATE

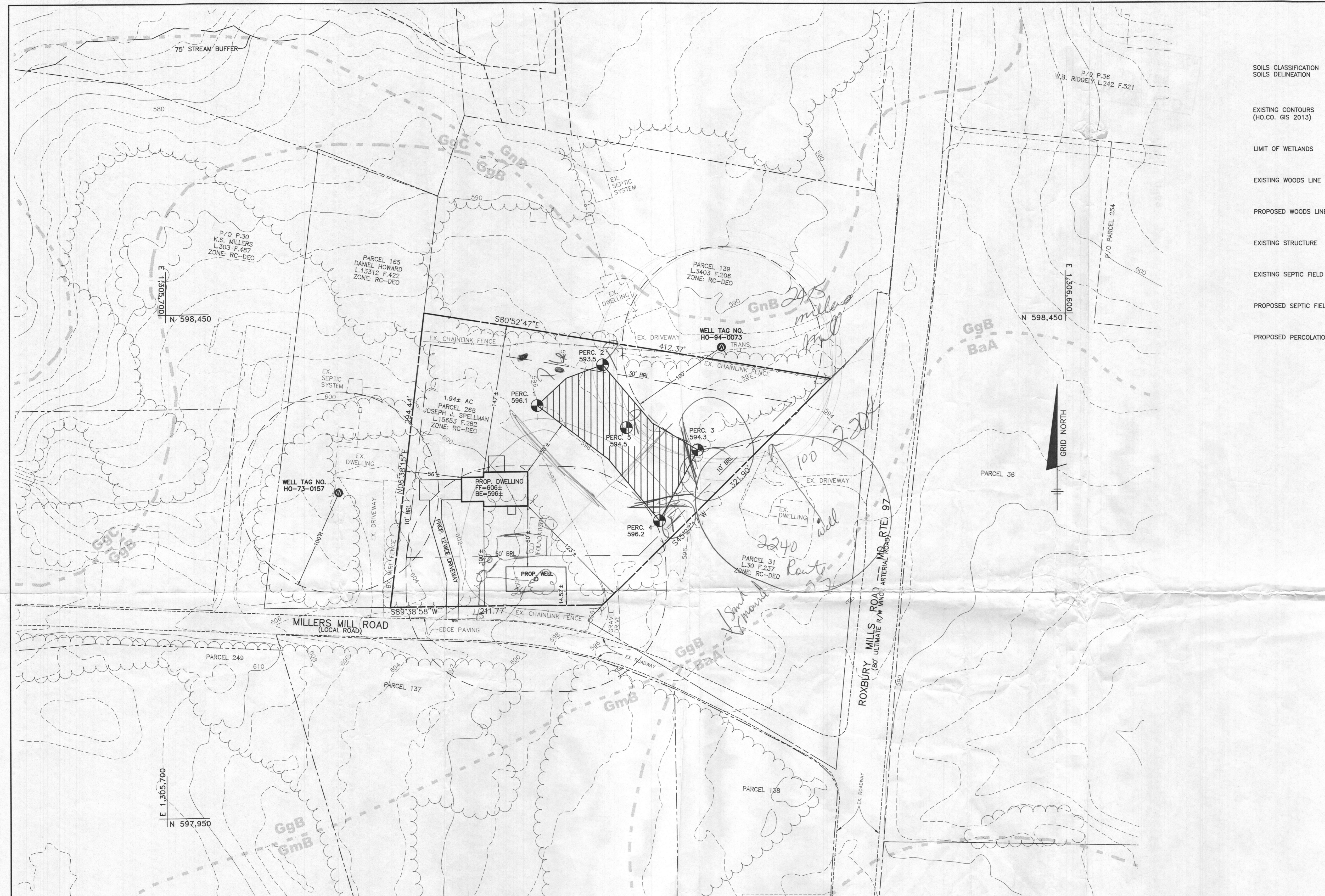
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|---|----------|---|----------|
| 1 | 12/29/16 | ADD EXIST. WELL LOCATION; ADJUST WELL BOX; REVISE GENERAL NOTE #4 | REVISION |
|---|----------|---|----------|

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**ENGINEERING, INC.**

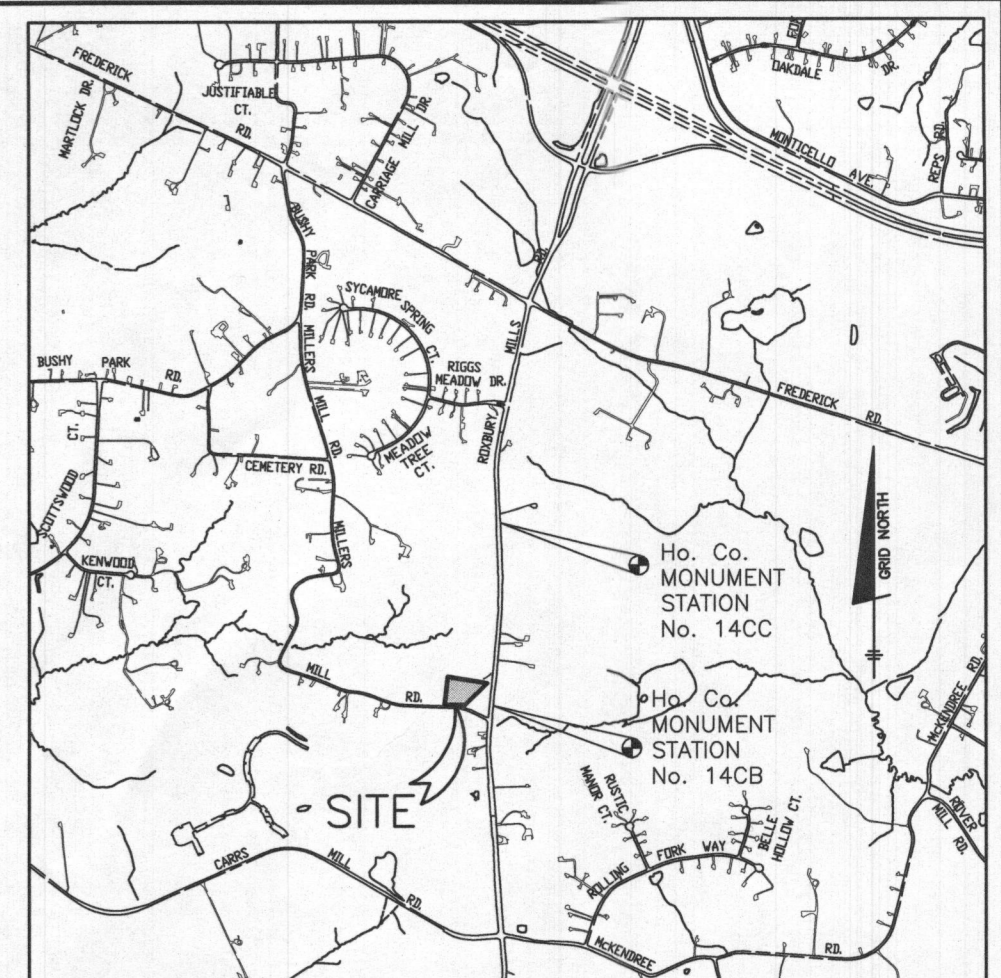
8480 BALTIMORE NATIONAL PIKE  
SUITE 315  
ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644  
WWW.BEI-CIVILENGINEERING.COM

|   |  |
|---|--|
| OWNER/DEVELOPER:<br><br>JOSEPH J. SPELLMAN<br>18000 HIGHFIELD ROAD<br>ASHTON, MARYLAND 20861<br>PHONE: 301-661-6413 | PROJECT:<br><b>SPELLMAN PROPERTY</b><br>2425 MILLERS MILL ROAD<br>COOKSVILLE, MD 21723 |
| TITLE:<br><b>PERCOLATION CERTIFICATION PLAN</b>   | DATE:<br>JULY 29, 2015<br>JANUARY 11, 2017   |
| DESIGN: MCR   | DRAFT: MCR   |
| CHECK: JMC  | PROJECT NO. 2648   |
| SCALE: AS SHOWN   | DRAWING 1 OF 1   |



**LEGEND**

- SOILS CLASSIFICATION  
SOILS DELINEATION GgC
- EXISTING CONTOURS  
(HO.CO. GIS 2013)
- LIMIT OF WETLANDS
- EXISTING WOODS LINE
- PROPOSED WOODS LINE
- EXISTING STRUCTURE
- EXISTING SEPTIC FIELD
- PROPOSED SEPTIC FIELD
- PROPOSED PERCOLATION TEST



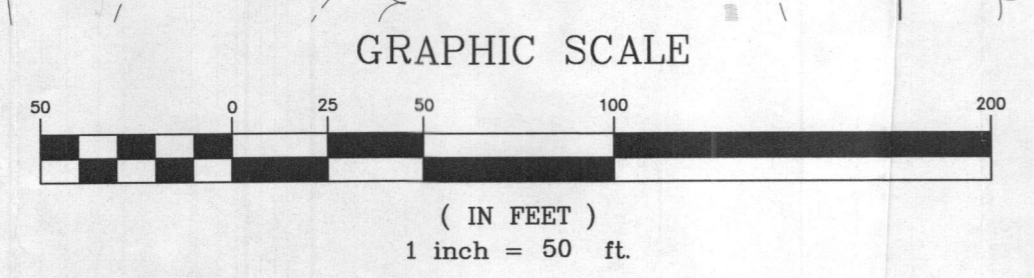
ADC MAP 17 - GRID A2  
VICINITY MAP  
SCALE: 1" = 2000'

**BENCHMARK INFORMATION NAD83**

|   |   |
|---|---|
| Ho. Co. STATION 14CB<br>STAMPED DISC SET ON TOP OF<br>CONCRETE COLUMN 3.2' EAST<br>OF THE EDGE OF PAVING FOR<br>MD ROUTE 97 AND 92.7'<br>SOUTH OF B&E POLE No. 18<br>526413/C&P POLE No.18<br>NORTHING: 598079.769'<br>EASTING: 1306428.226'<br>ELEVATION: 590.999' | Ho. Co. STATION 14CC<br>STAMPED DISC SET ON TOP OF<br>CONCRETE COLUMN 9.4' EAST<br>OF THE EDGE OF PAVING FOR<br>MD ROUTE 97 AND 28.1'<br>NORTH OF C&P POLE No.11<br>NORTHING: 599950.258'<br>EASTING: 1306517.766'<br>ELEVATION: 602.899' |
|---|---|

**GENERAL NOTES**

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER 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 PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY.
2. THESE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT. THE LOT SIZE FOR THESE LOTS WILL FULFILL THE REQUIREMENTS OF THE ZONING REGULATIONS.
3. ANY CHANGES TO A SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
4. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY'S BOUNDARIES EXCEPT THAT WHICH ARE SHOWN. INFORMATION HAS BEEN REQUESTED FROM THE BUREAU OF ENVIRONMENTAL HEALTH CONCERNING THE ADJOINING PROPERTIES.
5. EXACT LENGTH OF SEPTIC TRENCHES IS TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
6. THE EXISTING TOPOGRAPHY SHOWN AT TWO-FOOT CONTOUR INTERVALS IS TAKEN FROM HOWARD COUNTY G.I.S. TOPOGRAPHICAL SURVEY INFORMATION DATUM 2013.
7. ALL WELLS MUST BE DRILLED PRIOR TO FINAL RECORDATION OF THE FINAL PLAT.
8. AN ADVANCED PRE-TREATMENT SYSTEM, WHICH UTILIZES CURRENTLY ACCEPTABLE TECHNOLOGY TO PERFORM NITROGEN REDUCTION, MUST BE INSTALLED ON THE SEPTIC SYSTEM FOR THE DWELLING DUE TO PERMITTING REQUIREMENTS. THIS ADVANCED PRE-TREATMENT SYSTEM SHALL BE LIMITED TO THE SYSTEMS THAT HAVE COMPLETED AND PASSED THEIR FIELD VERIFICATION AS DETERMINED BY MDE AND LISTED IN THE WEBSITE FOR BAY RESTORATION FUND (BRF) BEST AVAILABLE TECHNOLOGY FOR REMOVING NITROGEN FROM ON-SITE SYSTEMS. A SUPPLEMENTAL SITE PLAN WITH ALL OF THE NECESSARY DETAILS FOR INSTALLATION OF THE SEPTIC SYSTEM WILL BE REQUIRED PRIOR TO THE RELEASE OF THE BUILDING PERMIT AND SYSTEM INSTALLATION PERMIT.



**SOILS LEGEND**

| MAP SYMBOL | SOIL GROUP | SOIL TYPE  |
|------------|------------|--|
| GgB        | B          | GLENELG LOAM, 3 TO 8 PERCENT SLOPES              |
| GnB        | C          | GLENVILLE-BAILE SILT LOAM, 0 TO 8 PERCENT SLOPES |
| GmB        | C          | GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES       |
| BaA*       | D          | BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES           |

FROM NATURAL RESOURCES CONSERVATION SERVICES WEB SOIL SURVEY 2.0  
\* HYDRIC SOILS

I 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.

PLAN PREPARER  
MICHAEL C. RIEDEL  
FOR BENCHMARK ENGINEERING INC.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

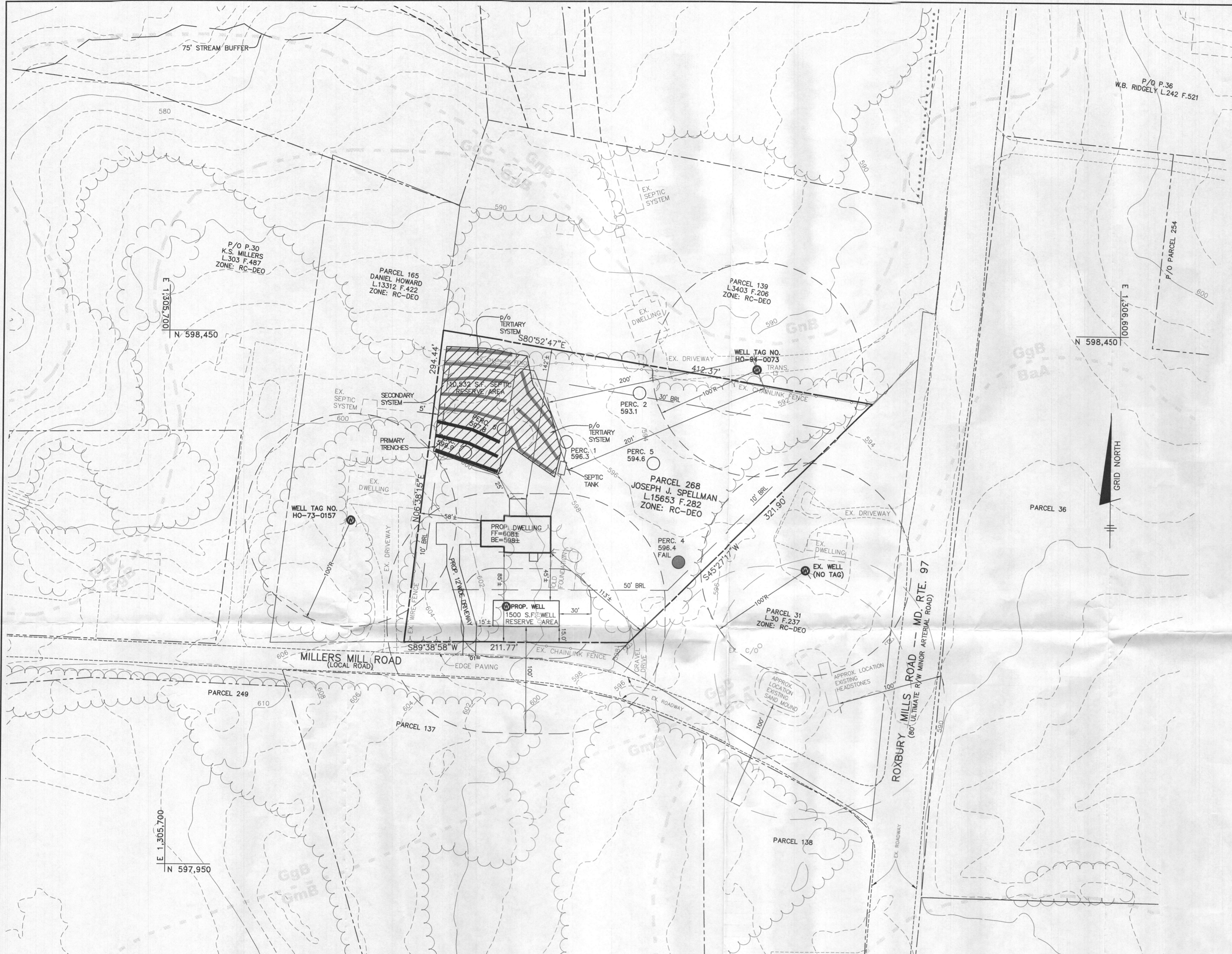
HOWARD COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

| NO. | DATE | REVISION |
|-----|------|----------|
|     |      |          |

**BENCHMARK**  
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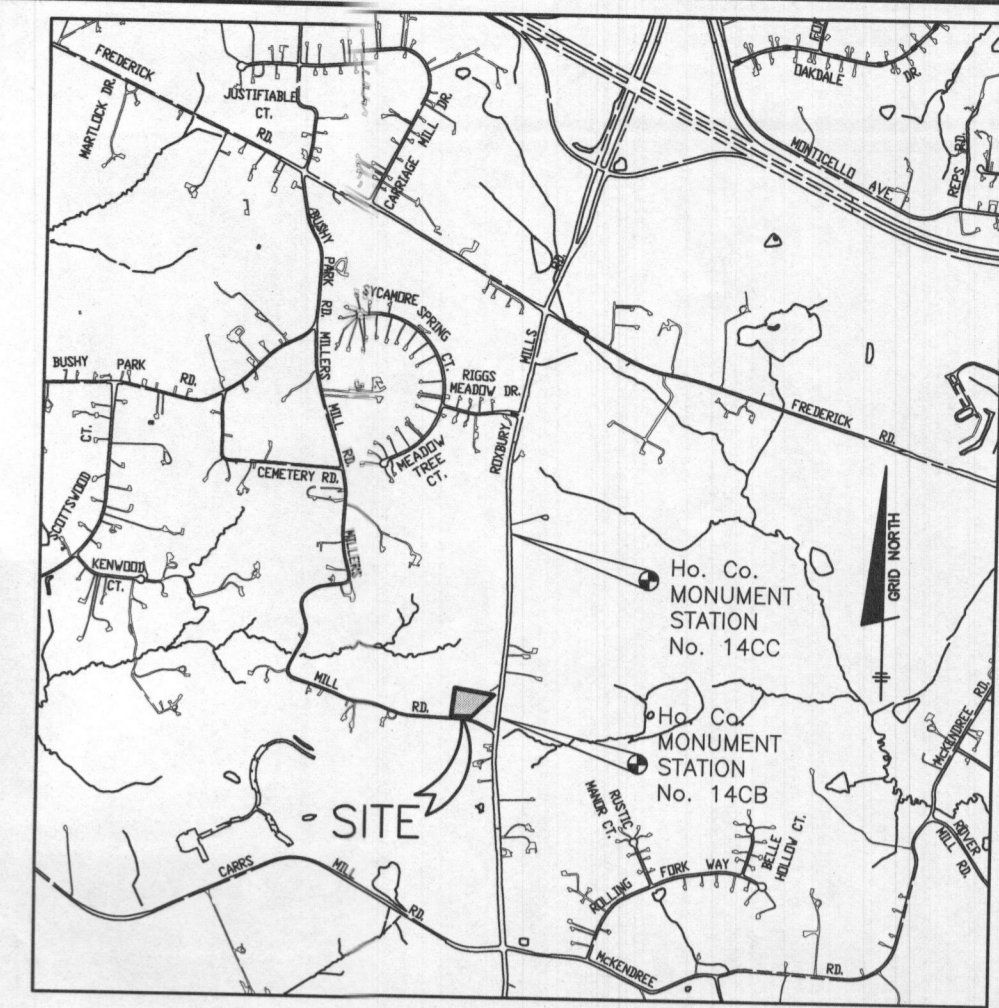
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WWW.BE-CIVILENGINEERING.COM

|  |   |
|--|---|
| OWNER/DEVELOPER:<br><br><b>JOSEPH J. SPELLMAN</b><br>18000 HIGHFIELD ROAD<br>ASHTON, MARYLAND 20861<br>PHONE: 301-661-6413 | PROJECT:<br><b>SPELLMAN PROPERTY</b><br>MILLERS MILL ROAD<br>COOKSVILLE, MD 21723                                       |
| TITLE:<br><b>PERCOLATION TESTING PLAN<br/>NOTES AND DETAILS</b>  | LOCATION:<br>TAX MAP: 14 / GRID: 004<br>PARCEL: 0268 / ZONE: RC-DEO<br>4th ELECTION DISTRICT<br>HOWARD COUNTY, MARYLAND |
| DATE: JANUARY, 2014  | PROJECT NO. 2648  |
| Design: MCR Draft: MCR Check: JMC  | SCALE: AS SHOWN DRAWING 1 OF 1  |



**LEGEND**

- SOILS CLASSIFICATION  
SOILS DELINEATION
- EXISTING CONTOURS  
(HO.CO. GIS 2013)
- LIMIT OF WETLANDS
- EXISTING WOODS LINE
- PROPOSED WOODS LINE
- EXISTING STRUCTURE
- EXISTING SEPTIC FIELD
- PROPOSED SEPTIC FIELD
- PROPOSED PERCOLATION PASSED
- PROPOSED PERCOLATION FAILED

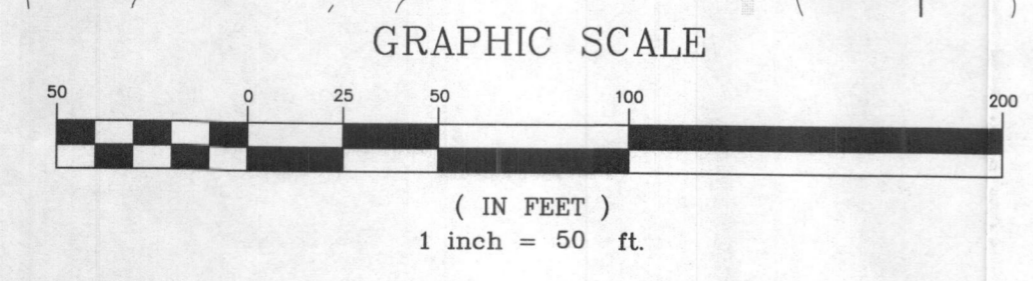


**BENCHMARK INFORMATION NAD83**

|   |  |
|---|--|
| Ho. Co. STATION 14CB<br>STAMPED DISC SET ON TOP OF<br>CONCRETE COLUMN 3.2' EAST<br>OF THE EDGE OF PAVING OF<br>MD ROUTE 97 AND 28.1'<br>SOUTH OF B&E POLE No. 526413/C&P POLE No. 18<br>NORTHING: 599079.769'<br>EASTING: 1306428.226'<br>ELEVATION: 590.999' | Ho. Co. STATION 14CC<br>STAMPED DISC SET ON TOP OF<br>CONCRETE COLUMN 9.4' EAST<br>OF THE EDGE OF PAVING FOR<br>MD ROUTE 97 AND 28.1'<br>NORTH OF C&P POLE No. 11<br>NORTHING: 599950.258'<br>EASTING: 1306517.766'<br>ELEVATION: 602.899' |
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**GENERAL NOTES**

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4. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY'S BOUNDARIES EXCEPT THAT WHICH ARE SHOWN. INFORMATION HAS BEEN REQUESTED FROM THE BUREAU OF ENVIRONMENTAL HEALTH CONCERNING THE ADJOINING PROPERTIES.
5. THE EXISTING TOPOGRAPHY SHOWN IS TAKEN FROM HOWARD COUNTY GIS AND SUPPLEMENTED WITH FIELD-RUN TOPOGRAPHY PERFORMED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT JANUARY, 2015; CONTOUR ARE AT TWO-FOOT INTERVALS.
- TRACT OUTLINE WAS ESTABLISHED BY FIELD WORK PERFORMED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT JANUARY, 2015. TOPOGRAPHY FOR THE SEPTIC RESERVE AREA WAS FIELD SURVEYED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT MAY, 2015.
6. ALL WELLS TO BE DRILLED PRIOR TO BUILDING PERMIT APPROVAL. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE WELL-DRILLING PRIOR TO BUILDING PERMIT SUBMISSION. IT WILL NOT BE CONSIDERED GOVERNMENT DELAY IF THE WELL-DRILLING HOLDS UP THE HEALTH DEPARTMENT APPROVAL OF THE BUILDING PERMIT.
7. AN ADVANCED PRE-TREATMENT SYSTEM, WHICH UTILIZES CURRENTLY ACCEPTABLE TECHNOLOGY TO PERFORM NITROGEN REDUCTION, MUST BE INSTALLED ON THE SEPTIC SYSTEMS FOR THIS PROJECT. THESE ADVANCED PRE-TREATMENT SYSTEMS SHALL BE LIMITED TO THE SYSTEMS LISTED IN THE WEBSITE FOR BAY RESTORATION FUND (BRF) BEST AVAILABLE TECHNOLOGY FOR REMOVING NITROGEN FROM ONSITE SYSTEMS. A SUPPLEMENTAL SITE PLAN WITH ALL OF THE NECESSARY DETAILS FOR INSTALLATION OF THE SEPTIC SYSTEM WILL BE REQUIRED PRIOR TO THE RELEASE OF THE BUILDING PERMIT AND SYSTEM INSTALLATION PERMIT.
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**SOILS LEGEND**

| MAP SYMBOL | SOIL GROUP | SOIL TYPE  |
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| GgB        | B          | GLENELG LOAM, 3 TO 8 PERCENT SLOPES              |
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PLAN PREPARER  
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FOR BENCHMARK ENGINEERING INC.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

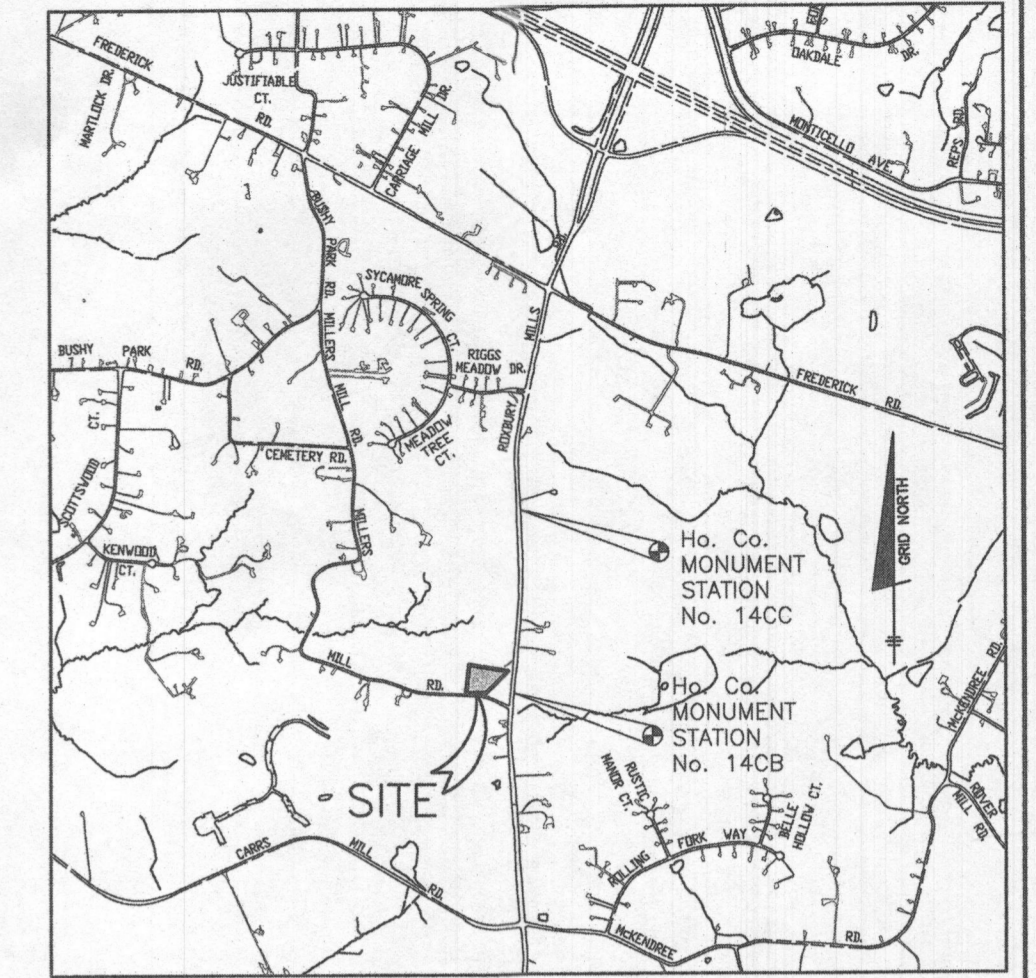
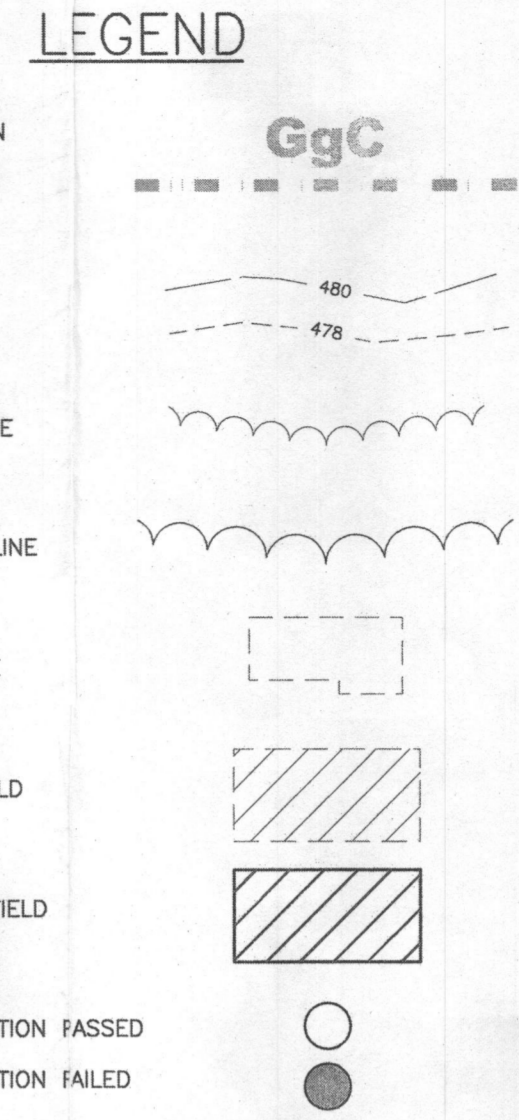
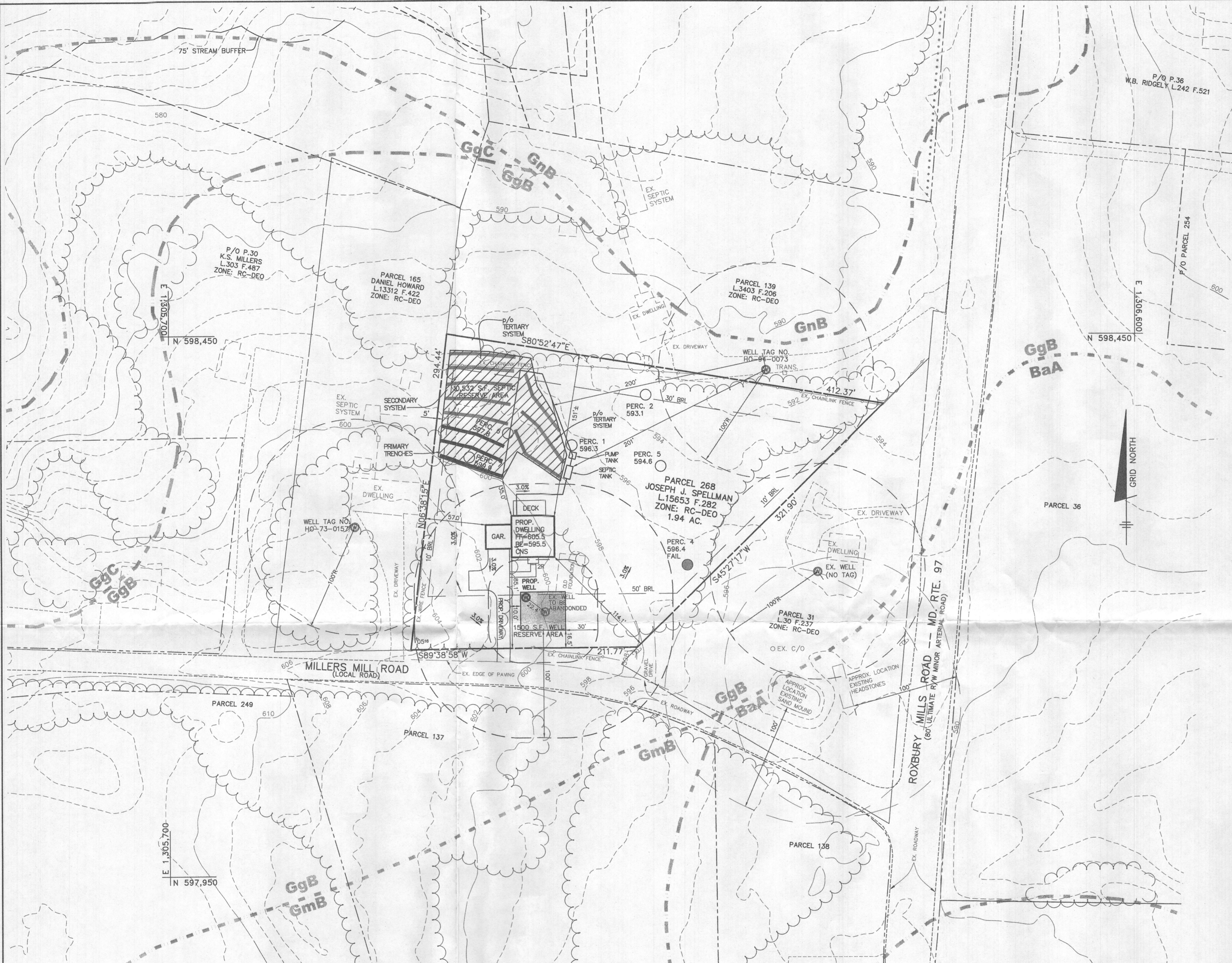
*Michael C. Riedel* 8/10/2015  
HOWARD COUNTY HEALTH OFFICER DATE

| NO. | DATE | REVISION |
|-----|------|----------|
|     |      |          |

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|   |  |
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| MAY 2015<br>JULY 29, 2015   | SCALE: AS SHOWN DRAWING 1 OF 1   |
| Design: MCR Draft: MCR Check: JMC   |  |



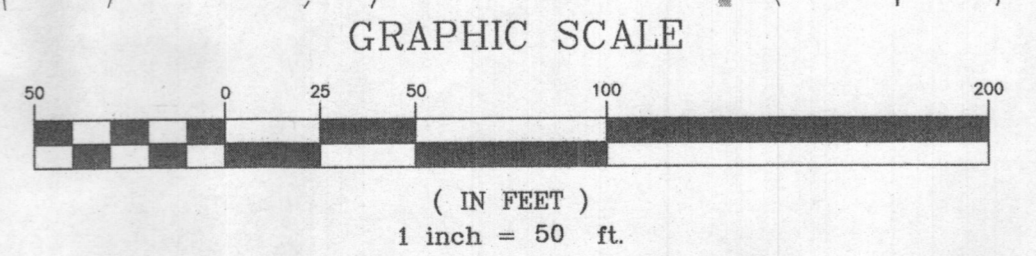
ADC MAP 17 - GRID A2  
VICINITY MAP  
SCALE: 1" = 200'

#### BENCHMARK INFORMATION NAD83

|   |  |
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- THE PURPOSE OF THIS PERCOLATION CERTIFICATION IS TO ESTABLISH PRIVATE SEWERAGE EASEMENT AND TO ESTABLISH THREE (3) PROPOSED WELL SITES OR 1500 SQ. FT. OF WELL ZONE WITH ELLIPTICAL RADIUS OF 100 FEET AROUND THE ENTIRE SET/WELL ZONE FOR THE LOT SHOWN ON THIS PROPERTY.
- MARYLAND DEPARTMENT OF THE ENVIRONMENT HAS ACCEPTED OUR VARIANCE REQUEST UNDER THE CODE OF MARYLAND REGULATIONS 26.04.02.05(C) TO ALLOW THE PROPOSED SEWAGE DISPOSAL SYSTEM SERVING ON THE JOSEPH J. SPELLMAN PROPERTY (2425 MILLERS MILL ROAD) TO BE LOCATED UP GRADIENT FROM THE EXISTING PRIVATE WATER WELL (HQ-94-0073) LOCATED AT 2204 ROXBURY MILLS ROAD. DUE TO THE LANDSCAPE POSITION OF THE SEWAGE AREAS AND WELL, THE REQUEST WAS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:
  - AN ADVANCED PRE-TREATMENT SYSTEM WHICH UTILIZES BEST AVAILABLE TECHNOLOGY TO PERFORM NITROGEN REDUCTION AND LOW PRESSURE DOSING MUST BE INSTALLED ON THE SEWAGE DISPOSAL SYSTEM AT 2425 MILLERS MILL ROAD. IN ADDITION, ONGOING MAINTENANCE IS REQUIRED. AN AGREEMENT ACKNOWLEDGING THE NEED FOR MAINTAINING A SERVICE CONTRACT WITH AN AUTHORIZED SERVICE PROVIDER MUST BE RECORDED IN THE HOWARD COUNTY LAND RECORDS FOR THIS LOT WITHIN 30 DAYS AFTER PLAT RECORDATION. BUILDING PERMIT APPLICATIONS FOR THIS RESPECTIVE LOT WILL NOT BE APPROVED UNTIL SUCH AN AGREEMENT IS RECORDED. BEFORE A SEPTIC SYSTEM INSTALLATION PERMIT IS RELEASED FOR THE ADVANCED PRE-TREATMENT SYSTEM, A SITE PLAN MUST SUBMITTED WITH ALL NECESSARY DETAILS FOR INSTALLATION OF THE SYSTEM.



#### SOILS LEGEND

| MAP SYMBOL | SOIL GROUP | K-VALUE   | SOIL TYPE  |
|------------|------------|-----------|--|
| GgB        | B          | 0.20      | GLENFIELD LOAM, 3 TO 8 PERCENT SLOPES            |
| GnB        | C          | 0.37/0.32 | GLENVILLE-BAILE SILT LOAM, 0 TO 8 PERCENT SLOPES |
| GmB        | C          | 0.37      | GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES       |
| BaA*       | D          | 0.32      | BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES           |

FROM NATURAL RESOURCES CONSERVATION SERVICES WEB SOIL SURVEY 2.0  
\* HYDRIC SOILS

I 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.

*Michael C. Riedel*  
PLAN PREPARER  
MICHAEL C. RIEDEL  
FOR BENCHMARK ENGINEERING INC.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

*Roxbury Mills*  
APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH OFFICER  
DATE: 1/23/2017

|   |          |   |          |
|---|----------|---|----------|
| 1 | 12/29/16 | ADD EXIST. WELL LOCATION; ADJUST WELL BOX; REVISE GENERAL NOTE #4 | REVISION |
|---|----------|---|----------|

### BENCHMARK

ENGINEERS & LAND SURVEYORS & PLANNERS

### ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE  
SUITE 315  
ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644  
WWW.BEI-CIVILENGINEERING.COM

|   |  |
|---|--|
| OWNER/DEVELOPER:  | PROJECT:   |
| JOSEPH J. SPELLMAN<br>18000 HIGHFIELD ROAD<br>ASHTON, MARYLAND 20861<br>PHONE: 301-661-6413 | <b>SPELLMAN PROPERTY</b><br>2425 MILLERS MILL ROAD<br>COOKSVILLE, MD 21723 |
| TITLE:  | DATE:  |
| PERCOLATION CERTIFICATION PLAN  | JULY 29, 2015<br>JANUARY 11, 2017  |
| DESIGN:   | PROJECT NO.:   |
| MCR   | 2648   |
| DRAFT:  | SCALE:   |
| MCR   | AS SHOWN   |
| CHECK:  | DRAWING:   |
| JMC   | 1 OF 1   |

## Mike Riedel

---

**From:** Collins, Sarah <SCollins@howardcountymd.gov>  
**Sent:** Friday, January 06, 2017 2:39 PM  
**To:** Mike Riedel  
**Cc:** 'John Carney'; 'Chris Malagari'  
**Subject:** RE: 2425 Millers Mill Rd well exhibit

Hi Mike,

I forwarded the email containing the revised perc cert and well exhibit to Dana Bernard, who's reviewing the perc cert. Unfortunately we cannot accept perc certs via email, but I did not know this- I apologize for the delay. Please drop off a copy to our office and we'll get the review process started.

Dana did say that a BAT will be required for this property due to the well location down gradient of the septic area.

Is the well box now staked? Previously it was just a single site staked on the property. We'd like the well box staked in case the driller hits a dry hole and needs to relocate.

Let me know if you have any other questions.

Thanks,  
Sarah

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**From:** Mike Riedel [mailto:mriedel@bei-civilengineering.com]  
**Sent:** Friday, January 06, 2017 10:24 AM  
**To:** Collins, Sarah  
**Cc:** 'John Carney'; 'Chris Malagari'  
**Subject:** RE: 2425 Millers Mill Rd well exhibit

SARAH: Good Morning. Any update on the Well Exhibit (approval?) and our BAT inquiry? Please reply Back at your earliest convenience. Thanx, MCR

---

**From:** Collins, Sarah [mailto:SCollins@howardcountymd.gov]  
**Sent:** Tuesday, December 27, 2016 9:18 AM  
**To:** Mike Riedel <mriedel@bei-civilengineering.com>  
**Cc:** 'John Carney' <jcarney@bei-civilengineering.com>; Chris Malagari <cmalagari@bei-civilengineering.com>  
**Subject:** RE: 2425 Millers Mill Rd well exhibit

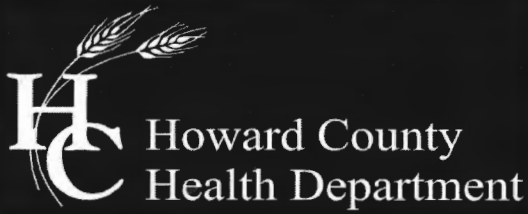
Hi Mike & John,

Any update on the revised perc cert for this property? Ralph Mayne would like to get the well permit released before he moves at the beginning of the year.

Thank you,  
Sarah

---

**From:** Collins, Sarah  
**Sent:** Thursday, December 15, 2016 7:38 AM  
**To:** 'Mike Riedel'



**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  
[www.hchealth.org](http://www.hchealth.org)  
Face book: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)  
Twitter: HowardCoHealthDep

---

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

TO: Benchmark Engineering, Inc.  
C/O Michael C. Riedel  
Via E-mail: [mriedel.bei-civilengineering.com](mailto:mriedel.bei-civilengineering.com)

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

RE: 2425 Millers Mill Road  
Percolation Certification Testing Results

DATE: May 15, 2015

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Percolation testing was conducted on the referenced property on May 7, 2015. The purpose for conducting these percolation tests was for an anticipated establishment of a sewage disposal area for 1 lot.

A total of six (6) test holes evaluated and five (5) 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. 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,  
  
Dana Bernard, REHS/RS  
Environmental Specialist II  
Phone (410) 313-2775  
Fax (410) 313-2648  
E-mail: [DBernard@howardcountymd.gov](mailto:DBernard@howardcountymd.gov)



HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
3430 Courthouse Drive ■ Ellicott City, Maryland 21043 ■ 410-313-2350

Marsha S. McLaughlin, Director

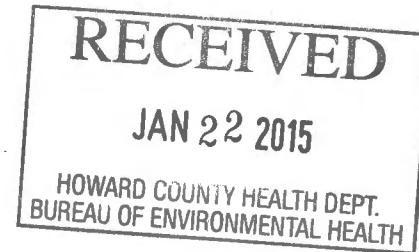
[www.howardcountymd.us](http://www.howardcountymd.us)

FAX 410-313-3467

TDD 410-313-2323

May 7, 2014

Joseph J. Spellman  
18000 Highfield Road  
Ashton, Maryland 20861



RE: 1.9375 Acre Millers Mill Road Parcel  
Tax Map 14, Grid 4, Parcel 268  
(the "Property")

Dear Mr. Spellman:

I am writing in response to your request regarding the Property referenced above. You ask whether the Property is a legal "buildable lot". You submitted several deeds as documentation for the creation of the Property.

This Division has evaluated the materials you submitted with your letter, and we have concluded that the Property was essentially created on December 19, 1969 with the recording of a deed in Liber 524 Folio 52 for the adjoining parcel to the west, Parcel 165. The creation of Parcel 165, which was done with a plat approved by the Planning Director, divided Parcel 30 at that time into two parts, one to the west of Parcel 165 and one to the east. The eastern portion of Parcel 30 eventually was given the new parcel number of Parcel 268. Based on this conclusion, we consider the Property to be a valid lot for which this Division will grant authorization on a building permit for a single-family detached dwelling, but only if the dwelling fully complies with the current bulk regulations for the RC District.

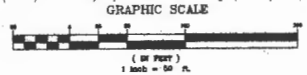
The Property may still be subject to access or plan approval requirements before a building permit may be issued. A building permit application for a single-family detached dwelling on the Property will not be given zoning authorization unless a copy of this letter is submitted with the application. If you have additional questions, please contact me at 410-313-4344 or at [blalush@howardcountymd.gov](mailto:blalush@howardcountymd.gov).

Sincerely,

Robert Lalush, Planning Supervisor  
Division of Public Service  
and Zoning Administration

JRL:jrl

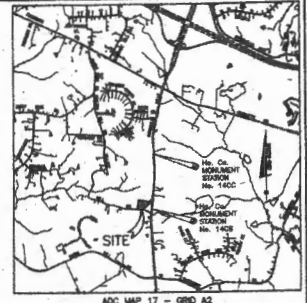
cc: Annette Merson



### LEGEND

**SOILS CLASSIFICATION**  
SOIL DELINEATION: GgC, GgB, GgA, GmB, GmC, GmD, GmE, GmF, GmG, GmH, GmI, GmJ, GmK, GmL, GmM, GmN, GmO, GmP, GmQ, GmR, GmS, GmT, GmU, GmV, GmW, GmX, GmY, GmZ, GmAA, GmAB, GmAC, GmAD, GmAE, GmAF, GmAG, GmAH, GmAI, GmAJ, GmAK, GmAL, GmAM, GmAN, GmAO, GmAP, GmAQ, GmAR, GmAS, GmAT, GmAU, GmAV, GmAW, GmAX, GmAY, GmAZ, GmBA, GmBB, GmBC, GmBD, GmBE, GmBF, GmBG, GmBH, GmBI, GmBJ, GmBK, GmBL, GmBM, GmBN, GmBO, GmBP, GmBQ, GmBR, GmBS, GmBT, GmBU, GmBV, GmBW, GmBX, GmBY, GmBZ, GmCA, GmCB, GmCC, GmCD, GmCE, GmCF, GmCG, GmCH, GmCI, GmCJ, GmCK, GmCL, GmCM, GmCN, GmCO, GmCP, GmCQ, GmCR, GmCS, GmCT, GmCU, GmCV, GmCW, GmCX, GmCY, GmCZ, GmDA, GmDB, GmDC, GmDD, GmDE, GmDF, GmDG, GmDH, GmDI, GmDJ, GmDK, GmDL, GmDM, GmDN, GmDO, GmDP, GmDQ, GmDR, GmDS, GmDT, GmDU, GmDV, GmDW, GmDX, GmDY, GmDZ, GmEA, GmEB, GmEC, GmED, GmEE, GmEF, GmEG, GmEH, GmEI, GmEJ, GmEK, GmEL, GmEM, GmEN, GmEO, GmEP, GmEQ, GmER, GmES, GmET, GmEU, GmEV, GmEW, GmEX, GmEY, GmEZ, GmFA, GmFB, GmFC, GmFD, GmFE, GmFF, GmFG, GmFH, GmFI, GmFJ, GmFK, GmFL, GmFM, GmFN, GmFO, GmFP, GmFQ, GmFR, GmFS, GmFT, GmFU, GmFV, GmFW, GmFX, GmFY, GmFZ, GmGA, GmGB, GmGC, GmGD, GmGE, GmGF, GmGG, GmGH, GmGI, GmGJ, GmGK, GmGL, GmGM, GmGN, GmGO, GmGP, GmGQ, GmGR, GmGS, GmGT, GmGU, GmGV, GmGW, GmGX, GmGY, GmGZ, GmHA, GmHB, GmHC, GmHD, GmHE, GmHF, GmHG, GmHH, GmHI, GmHJ, GmHK, GmHL, GmHM, GmHN, GmHO, GmHP, GmHQ, GmHR, GmHS, GmHT, GmHU, GmHV, GmHW, GmHX, GmHY, GmHZ, GmIA, GmIB, GmIC, GmID, GmIE, GmIF, GmIG, GmIH, GmII, GmIJ, GmIK, GmIL, GmIM, GmIN, GmIO, GmIP, GmIQ, GmIR, GmIS, GmIT, GmIU, GmIV, GmIW, GmIX, GmIY, GmIZ, GmJA, GmJB, GmJC, GmJD, GmJE, GmJF, GmJG, GmJH, GmJI, GmJJ, GmJK, GmJL, GmJM, GmJN, GmJO, GmJP, GmJQ, GmJR, GmJS, GmJT, GmJU, GmJV, GmJW, GmJX, GmJY, GmJZ, GmKA, GmKB, GmKC, GmKD, GmKE, GmKF, GmKG, GmKH, GmKI, GmKJ, GmKK, GmKL, GmKM, GmKN, GmKO, GmKP, GmKQ, GmKR, GmKS, GmKT, GmKU, GmKV, GmKW, GmKX, GmKY, GmKZ, GmLA, GmLB, GmLC, GmLD, GmLE, GmLF, GmLG, GmLH, GmLI, GmLJ, GmLK, GmLL, GmLM, GmLN, GmLO, GmLP, GmLQ, GmLR, GmLS, GmLT, GmLU, GmLV, GmLW, GmLX, GmLY, GmLZ, GmMA, GmMB, GmMC, GmMD, GmME, GmMF, GmMG, GmMH, GmMI, GmMJ, GmMK, GmML, GmMN, GmMO, GmMP, GmMQ, GmMR, GmMS, GmMT, GmMU, GmMV, GmMW, GmMX, GmMY, GmMZ, GmNA, GmNB, GmNC, GmND, GmNE, GmNF, GmNG, GmNH, GmNI, GmNJ, GmNK, GmNL, GmNM, GmNO, GmNP, GmNQ, GmNR, GmNS, GmNT, GmNU, GmNV, GmNW, GmNX, GmNY, GmNZ, GmOA, GmOB, GmOC, GmOD, GmOE, GmOF, GmOG, GmOH, GmOI, GmOJ, GmOK, GmOL, GmOM, GmON, GmOO, GmOP, GmOQ, GmOR, GmOS, GmOT, GmOU, GmOV, GmOW, GmOX, GmOY, GmOZ, GmPA, GmPB, GmPC, GmPD, GmPE, GmPF, GmPG, GmPH, GmPI, GmPJ, GmPK, GmPL, GmPM, GmPN, GmPO, GmPP, GmPQ, GmPR, GmPS, GmPT, GmPU, GmPV, GmPW, GmPX, GmPY, GmPZ, GmQA, GmQB, GmQC, GmQD, GmQE, GmQF, GmQG, GmQH, GmQI, GmQJ, GmQK, GmQL, GmQM, GmQN, GmQO, GmQP, GmQQ, GmQR, GmQS, GmQT, GmQU, GmQV, GmQW, GmQX, GmQY, GmQZ, GmRA, GmRB, GmRC, GmRD, GmRE, GmRF, GmRG, GmRH, GmRI, GmRJ, GmRK, GmRL, GmRM, GmRN, GmRO, GmRP, GmRQ, GmRR, GmRS, GmRT, GmRU, GmRV, GmRW, GmRX, GmRY, GmRZ, GmSA, GmSB, GmSC, GmSD, GmSE, GmSF, GmSG, GmSH, GmSI, GmSJ, GmSK, GmSL, GmSM, GmSN, GmSO, GmSP, GmSQ, GmSR, GmSS, GmST, GmSU, GmSV, GmSW, GmSX, GmSY, GmSZ, GmTA, GmTB, GmTC, GmTD, GmTE, GmTF, GmTG, GmTH, GmTI, GmTJ, GmTK, GmTL, GmTM, GmTN, GmTO, GmTP, GmTQ, GmTR, GmTS, GmTT, GmTU, GmTV, GmTW, GmTX, GmTY, GmTZ, GmUA, GmUB, GmUC, GmUD, GmUE, GmUF, GmUG, GmUH, GmUI, GmUJ, GmUK, GmUL, GmUM, GmUN, GmUO, GmUP, GmUQ, GmUR, GmUS, GmUT, GmUU, GmUV, GmUW, GmUX, GmUY, GmUZ, GmVA, GmVB, GmVC, GmVD, GmVE, GmVF, GmVG, GmVH, GmVI, GmVJ, GmVK, GmVL, GmVM, GmVN, GmVO, GmVP, GmVQ, GmVR, GmVS, GmVT, GmVU, GmVV, GmVW, GmVX, GmVY, GmVZ, GmWA, GmWB, GmWC, GmWD, GmWE, GmWF, GmWG, GmWH, GmWI, GmWJ, GmWK, GmWL, GmWM, GmWN, GmWO, GmWP, GmWQ, GmWR, GmWS, GmWT, GmWU, GmWV, GmWW, GmWX, GmWY, GmWZ, GmXA, GmXB, GmXC, GmXD, GmXE, GmXF, GmXG, GmXH, GmXI, GmXJ, GmXK, GmXL, GmXM, GmXN, GmXO, GmXP, GmXQ, GmXR, GmXS, GmXT, GmXU, GmXV, GmXW, GmXX, GmXY, GmXZ, GmYA, GmYB, GmYC, GmYD, GmYE, GmYF, GmYG, GmYH, GmYI, GmYJ, GmYK, GmYL, GmYM, GmYN, GmYO, GmYP, GmYQ, GmYR, GmYS, GmYT, GmYU, GmYV, GmYW, GmYX, GmYY, GmYZ, GmZA, GmZB, GmZC, GmZD, GmZE, GmZF, GmZG, GmZH, GmZI, GmZJ, GmZK, GmZL, GmZM, GmZN, GmZO, GmZP, GmZQ, GmZR, GmZS, GmZT, GmZU, GmZV, GmZW, GmZX, GmZY, GmZZ

**EXISTING FEATURES**  
EXISTING CONTOURS (10.00, 20.00, 30.00)  
LAST OF WETLANDS  
EXISTING WOODS LINE  
PROPOSED WOODS LINE  
EXISTING STRUCTURE  
EXISTING SEPTIC FIELD  
PROPOSED SEPTIC FIELD  
PROPOSED PERCOLATION PAVED  
PROPOSED PERCOLATION UNPAVED



### BENCHMARK INFORMATION TABLES

|   |   |
|---|---|
| NO. OR. BENCH. 1428<br>ELEVATION 1004.62<br>ELEVATION 1004.62 | NO. OR. BENCH. 1429<br>ELEVATION 1004.63<br>ELEVATION 1004.63 |
|---|---|

### GENERAL NOTES

- THIS AREA REQUIRES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE STATE DEPARTMENT OF ENVIRONMENT FOR PERCOLATION SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNLESS PUBLIC SERVICE IS AVAILABLE. THIS EASEMENT SHALL REMAIN IN FULL FORCE AND EFFECT IN CONNECTION TO THE PERCOLATION SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO MAKE ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAN SHALL NOT BE NECESSARY.
- THE LOT SHOWN HEREIN COMPLY WITH THE MINIMUM OVERSEER WIDTH AND LOT AREA AS REQUIRED BY THE HANOVER DEPARTMENT OF ENVIRONMENT. THE LOT SIZE FOR THESE LOTS WILL MEET THE REQUIREMENTS OF THE ZONING REGULATIONS.
- ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A RECORDED PERCOLATION CERTIFICATION PLAN.
- THERE ARE NO EXISTING WELLS ON SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY'S BOUNDARIES EXCEPT THOSE WHICH ARE SHOWN. INFORMATION HAS BEEN REQUESTED FROM THE BUREAU OF ENVIRONMENTAL HEALTH CONCERNING THE FOLLOWING PROPERTIES:  
1. 2004 MILLERS MILL ROAD, PARCEL 120, ASHTON, MARYLAND 21004.  
2. 2004 MILLERS MILL ROAD, PARCEL 121, ASHTON, MARYLAND 21004.
- THE EXISTING TOPOGRAPHY SHOWN IS BASED UPON AERIAL PHOTOGRAPHS AND SUPPLEMENTED WITH FIELD-TURN TOPOGRAPHY PERFORMED BY BENCHMARK ENGINEERING, INC. ON OR ABOUT JANUARY, 2016. CORRELAR ARE AT THE-FOOT INTERVALS.
- TRACT OUTLINE WAS ESTABLISHED BY FIELD WORK PERFORMED BY BENCHMARK ENGINEERING, INC. ON OR ABOUT JANUARY, 2016. TOPOGRAPHY FOR THE SEPTIC RESERVE AREA WAS FIELD SURVEYED BY BENCHMARK ENGINEERING, INC. ON OR ABOUT JANUARY, 2016.
- ALL WELLS TO BE INSTALLED PRIOR TO BUILDING PERMIT APPROVAL. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE WELL DRILLING PRIOR TO BUILDING PERMIT SUBMISSION. IT WILL NOT BE CONSIDERED GOVERNMENT DELAY IF THE WELL-DRILLING HOLDS UP THE HEALTH DEPARTMENT APPROVAL OF THE BUILDING PERMIT.
- AN ADVANCED PRE-TREATMENT SYSTEM WHICH UTILIZES CURRENTLY ACCEPTABLE TECHNOLOGY TO PERFORM NITROGEN REDUCTION MUST BE INSTALLED ON THE SEPTIC SYSTEM FOR THIS PROJECT. THESE ADVANCED PRE-TREATMENT SYSTEMS SHALL BE LISTED IN THE SPECIFICATIONS IN THE RESERVE FOR SEE PERCOLATION PLAN UNDER BEST AVAILABLE TECHNOLOGY FOR REMOVING NITROGEN FROM SEWAGE. A SEWERAGE SYSTEM WITH PUMP WITH ALL OF THE NECESSARY DETAILS FOR INSTALLATION OF THE SEPTIC SYSTEM WILL BE REQUIRED PRIOR TO THE RELEASE OF THE BUILDING PERMIT AND SYSTEM INSTALLATION PERMIT.
- PERCOLATION TEST FEE RECEIPT NUMBER REFERENCED IN THE APPROVING AUTHORITY CORRESPONDENCE IS A-08716.
- THE PURPOSE OF THIS PERCOLATION CERTIFICATION IS TO ESTABLISH PRIVATE SEWERAGE EASEMENT AND TO ESTABLISH THREE (3) PROPOSED WELL SITES OF 1500 SQ. FT. OF WELL ZONE WITH ELLIPTICAL RADII OF 100 FEET AROUND THE ENTIRE SET/ WELL ZONE FOR THE LOT SHOWN ON THIS PROJECT.
- THE HANOVER DEPARTMENT OF ENVIRONMENT HAS ACCEPTED OUR VARIANCE REQUEST UNDER THE CODE OF MARYLAND REGULATIONS (B-04.02.02) TO ALLOW THE PROPOSED SEWERAGE DISPOSAL SYSTEM SERVING ON THE JOSEPH J. SPELLMAN PROPERTY (2455 MILLERS MILL ROAD) TO BE LOCATED UP GRADIENT FROM THE EXISTING PRIVATE WELLS (NO-04-007) LOCATED AT 2004 MILLERS MILL ROAD. DUE TO THE LANDSCAPE POSITION OF THE BENCHMARETS AND WELLS, THE REQUEST WAS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:  
1. AN ADVANCED PRE-TREATMENT SYSTEM WHICH UTILIZES BEST AVAILABLE TECHNOLOGY TO PERFORM NITROGEN REDUCTION AND LOW PRESSURE BODIES MUST BE INSTALLED ON THE SEWERAGE DISPOSAL SYSTEM AT 2455 MILLERS MILL ROAD. IN ADDITION, Ongoing MAINTENANCE IS REQUIRED. AN APPROVED CONTRACTOR SHALL BE Hired FOR MAINTENANCE A SERVICE CONTRACT WITH AN AUTHORIZED SERVICE PROVIDER SHALL BE REQUIRED BY THE HANOVER COUNTY LAND DEPARTMENT FOR THE LOT WITHIN 30 DAYS AFTER PLAN RECORDATION. BUILDING PERMIT APPLICATION FOR THE RESPECTIVE LOT WILL NOT BE APPROVED UNLESS SUCH AN AGREEMENT IS RECORDED. BEFORE A SEPTIC SYSTEM INSTALLATION PERMIT IS RELEASED FOR THE ADVANCED PRE-TREATMENT SYSTEM, A SITE PLAN MUST SUBMITTED WITH ALL NECESSARY DETAILS FOR INSTALLATION OF THE SYSTEM.

### SOILS LEGEND

| SOIL SYMBOL | SOIL GROUP | SOIL TYPE                                     |
|-------------|------------|---|
| GgC         | B          | CLAYEY LOAM, 3 TO 8 PERCENT SLOPES            |
| GgB         | C          | CLAYEY-SANDY SILT LOAM, 0 TO 8 PERCENT SLOPES |
| GgA         | C          | CLAYEY SILT LOAM, 3 TO 8 PERCENT SLOPES       |
| GmB         | D          | SANDY SILT LOAM, 0 TO 3 PERCENT SLOPES        |

FROM HANOVER, MARYLAND COMMISSIONER SERVICES WEB SOIL SURVEY 2.0  
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I 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.

*Michael D. Hessel*  
MICHAEL D. HESSEL  
PLAN PREPARED FOR BENCHMARK ENGINEERING INC.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS  
HANOVER COUNTY HEALTH DEPARTMENT

*Richard A. Moore*  
RICHARD A. MOORE  
DATE: 8/10/2016

| NO. | DATE | REVISION |
|-----|------|----------|
|     |      |          |

**BENCHMARK ENGINEERING, INC.**  
BENCHMARETS & LAND SURVEYORS & PLANNERS  
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SUITE 3114  
ELICOTT CITY, MARYLAND 21043  
(410) 465-6100 FAX (410) 465-8844  
WWW.BE-ONLINEENGINEERING.COM

OWNER/DEVELOPER: **JOSEPH J. SPELLMAN**  
18000 HIGHFIELD ROAD  
ASHTON, MARYLAND 21001  
PHONE: 301-661-6413

PROJECT: **SPELLMAN PROPERTY**  
2455 MILLERS MILL ROAD  
COCKEENVILLE, MD 21773

LOCATION: **ADC MAP 17 / GRID D04**  
PARCEL 0288 / ZONE RC-02D  
4th ELECTION DISTRICT  
HANNING COUNTY, MARYLAND

TITLE: **PERCOLATION CERTIFICATION PLAN**

DATE: **NOV. 2016**  
JULY 26, 2016

SCALE: **AS SHOWN**

PROJECT NO.: **2848**

DESIGN: **WCR** DRAFT: **WCR** CHECK: **WCR**