

Bureau of Environmental Health  
7178 Gateway Drive Columbia, MD 21046  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
Website: [www.hchealth.org](http://www.hchealth.org)

Peter L. Beilenson, M.D., M.P.H., Health Officer

August 26, 2009

RE: **Percolation Test Results**

Purpose: To Establish Septic Reserved Area

Property ID: 5276 Green Bridge Road

Dayton, Maryland 21036

Tax Map: 28 Parcel: 125

Dear Mr. and Mrs. Snyder:

Percolation testing was recently conducted August 25, 2009 on the above referenced property, in an effort to establish sufficient septic reserve areas for the existing lot.

Results for the lot indicated satisfactory soil conditions for onsite wastewater disposal and adequate septic reserve area to support the proposed number of bedrooms for a single family dwelling. A new reserve area with 2 repairs was established on the lot. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall are indicated, and may be confirmed at the time of installation. Field data collected is shown on the Percolation Test Worksheet enclosed with this letter.

A total of 4 test holes were dug in the proposed septic reserve area and the results were successful. On the existing lot, a dysfunctional existing septic system (750 gallon tank) was discovered behind the house. The septic system included a tank, and a dry well. Both appeared to be failing and were condemned on site.

The hand dug well was inspected on site and must be upgraded to adhere to Howard County Code. A licensed well driller will be able to assist you with the well. After the well is upgraded, the well must be chlorinated and tested after initial connection to plumbing. To schedule a water sampling appointment please contact the community hygiene program at (410) 313-1773.

The next step in this process is to have your engineer/consultant submit a 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.

Respectfully,

*Dana Bernard*

Dana Bernard, Environmental Sanitarian

Bureau of Environmental Health

Well and Septic Program

Development and Coordination

Phone (410) 313-2775

E-mail: [DBernard@howardcountymd.gov](mailto:DBernard@howardcountymd.gov)

DLB

Enclosures

cc: Well & Septic program file

# Percolation Information- 5276 Green Bridge Road

Note: Well on the left side of the house more than 100 feet away.

**A**

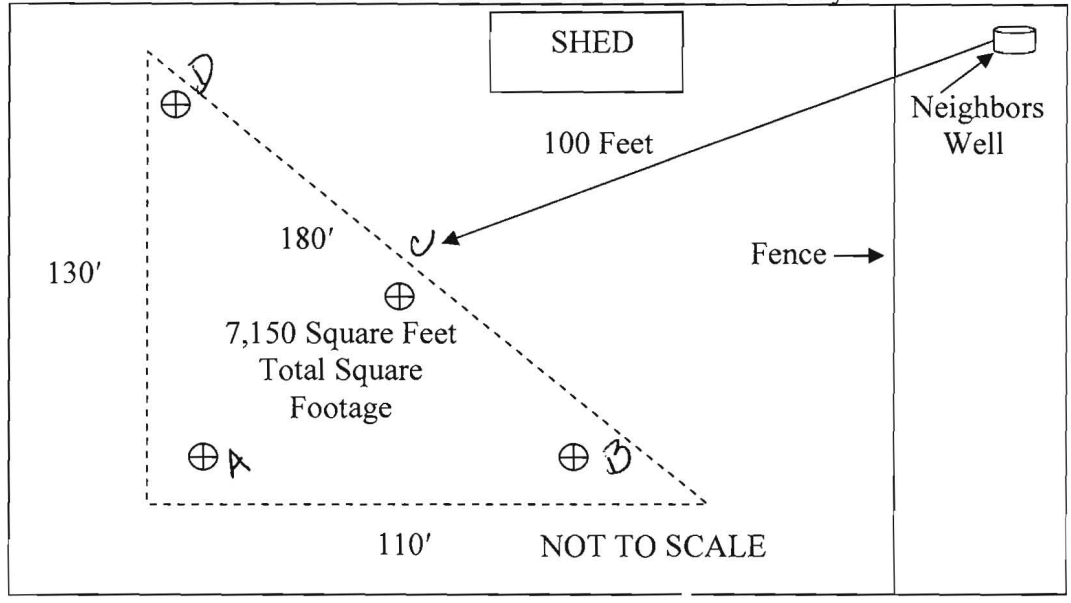
Brown, Grey  
2 SBK  
SCL  
-----1'

Yellow, Red,  
SL  
Small Stones  
Much Mica  
-----5'

Yellow, Red,  
Brown  
SL

↓

Saprolite  
Black Mn  
Deposits  
-----14'



**D**

Soil  
Profile  
Same  
as  
Profile  
B

**B**

Dk. Gray  
Brown, 2 SBK  
SCL  
-----0.8'

Red-Brown  
SCL  
Much Mica  
-----2'

Red, Yellow  
Brown SL  
Much Mica

↓

Saprolite  
-----14'

Date	Test	Depth	Start	Break 1" Drop	Break 2" Drop	Time of 2 <sup>nd</sup> Inch	P/F/H
8-25-09	A	4'/14'	10:04	10:06	10:10	4 min.	Pass
8-25-09	B	4'/14'	10:23	10:24	10:26	2 min	
	Repair		10:29	10:31	10:33	2 min.	Pass
8-25-09	C	14'		Visual	Pass		Pass
8-25-09	D	4'/14'	11:10	11:11	11:12	1 min.	Pass
	Repair		11:13	11:15	11:17	2 min.	Pass

**C**

Soil  
Profile  
Same  
as  
Profile  
B

Remarks: The soil can support Conventional System. Soil type (MaC). The existing well is 17' from the front of the house. The exiting Septic system is 15' from the back of the house. The tank is 750gallons, and must be abandoned. The tank will be replaced with a 2000 gallon tank.

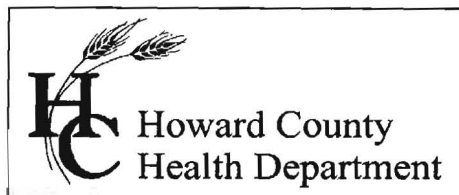
Sanitarian D. Bernard Backhoe Bill Ingram Others

Test Holes Used in  in SDA  Avg. Perc Time 2 min. SQ.FT/BR

Trench Width 2 Inlet Depth 3' Max Bot.Depth 4' Effective S/W 1'

#

#



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August 26, 2009

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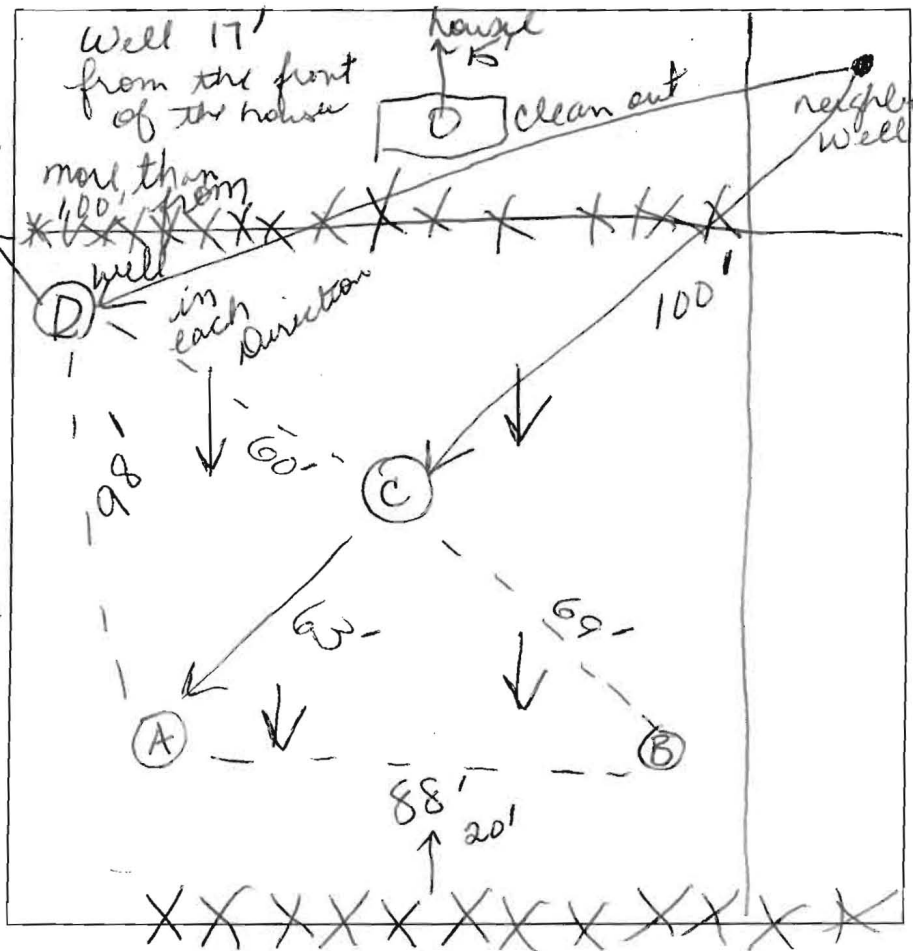
DLB  
Enclosures  
cc: Well & Septic program file

A/P \_\_\_\_\_

**A**  
 Brao Grey Sch mica 1'  
 Red Yellow Sh small stones mica 5'  
 Yell Red Grey Braon Sh  
 Black Shapelite 14'

**B**  
 SBK 2m Black Grey Sch 0.8  
 Red Yellow Brao Sch 2'  
 Red, Yellow mica Braon Sh  
 Medium Shapelite 14'

**C**  
 Same as B



**D**  
 Same as B

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8-25	A	4/14		10:04	10:06	10:10	4 min Pass
8-25	B	4/14	10:23	10:24	10:26	2m	P
	Repair		10:29	10:31	10:33	2m	P
8-25	C	<del>4/14</del>	Visual				P
8-25	D	4/14	11:10	11:11	11:12		
			11:13	11:15	11:17	2m	P

REMARKS \_\_\_\_\_

SANITARIAN \_\_\_\_\_ BACKHOE \_\_\_\_\_ OTHERS \_\_\_\_\_

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

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

# 531871 Percolation Information- 5276 Green Bridge Road

Note: Well on the left side of the house more than 100 feet away NOT TO SCALE

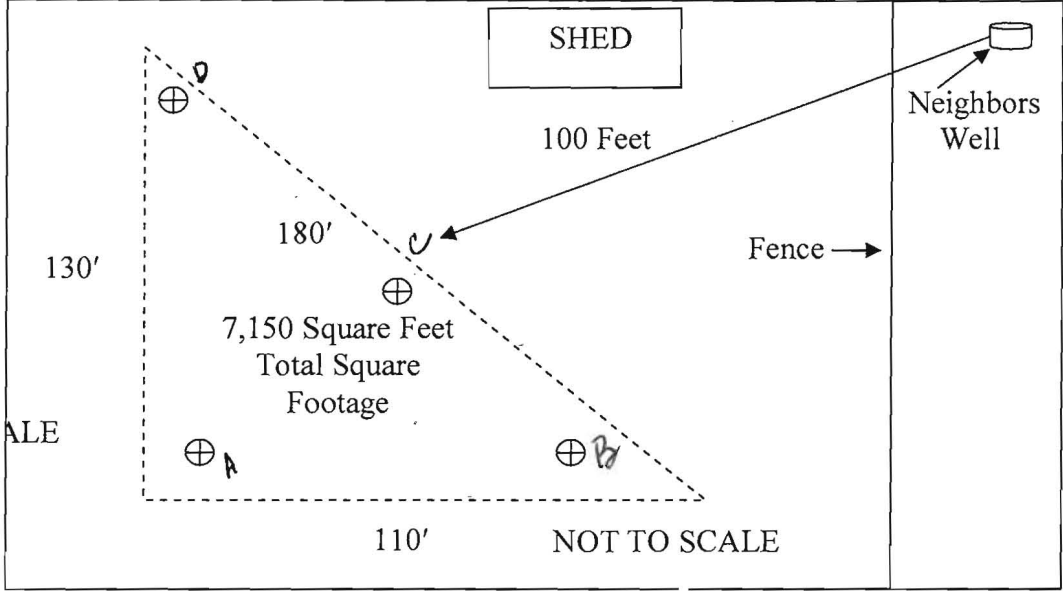
**A**

Brown, Grey  
2 SBK  
SCL  
-----1'

Yellow, Red,  
SL  
Small Stones  
Much Mica  
-----5'

Yellow, Red,  
Brown  
SL  
↓

Saprolite  
Black Mn  
Deposits  
-----14'



**D**

Soil  
Profile  
Same  
as  
Profile  
B

**B**

Dk. Gray  
Brown, 2 SBK  
SCL  
-----0.8'

Red-Brown  
SCL  
Much Mica  
-----2'

Red, Yellow  
Brown SL  
Much Mica  
↓

Saprolite  
-----14'

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Repour			10:29	10:31	10:33	2 min.	Pass
8-25-09	C	14'		Visual	Pass		Pass
8-25-09	D	4'/14'	11:10	11:11	11:12	1 min.	Pass
Repour			11:13	11:15	11:17	2 min.	Pass

**C**

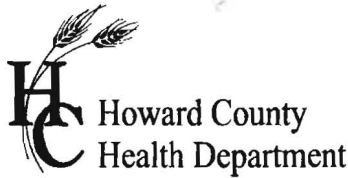
Soil  
Profile  
Same  
as  
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B

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Sanitarian \_D. Bernard\_\_\_\_\_ Backhoe \_\_ Bill Ingram\_\_\_\_ Others\_\_\_\_\_

Test Holes Used in \_\_ in SDA \_\_ Avg. Perc Time \_\_ 2 min. \_\_ SQ.FT/BR \_\_\_\_\_

Trench Width \_2\_\_ Inlet Depth \_3'\_\_ Max Bot.Depth \_4'\_\_ Effective S/W \_1'\_\_



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

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

AP 531871

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

DATE 8-7-09

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

A 11806 Health Dept. records

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH N/A 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) Eric F. and Patty Jean M. Snyder

DAYTIME PHONE 240-752-4089 CELL 443-528-5658 FAX 240-399-2001

MAILING ADDRESS 8410 cotoneaster Drive Apt. 3F Ellicott City, MD  
STREET CITY/TOWN STATE 21043 ZIP

APPLICANT Same as above

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 \_\_\_\_\_ LOT NO. \_\_\_\_\_

PROPERTY ADDRESS 5276 Green Bridge Rd. Dayton, MD 21036  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 28 GRID 13 PARCEL(S) 125 PROPOSED LOT SIZE \_\_\_\_\_

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. Patty Jean M. Snyder  
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

A/P \_\_\_\_\_

[Empty rectangular box]

[Large empty rectangular box for notes or drawings]

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[Empty rectangular box]

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RECEIVED  
HOWARD COUNTY HEALTH DEPT  
ENVIRONMENTAL HEALTH

2009 AU -7 PH 2:40

[Empty rectangular box]

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

REMARKS \_\_\_\_\_

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TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

TAX MAP 27  
PARCEL 34

N 61° 18' 30" E  
125.00'

1.004 AC. ±

N 28° 41' 30" W

S 28° 41' 30" E

WOOD SHED 12' x 6'

CHAIN LINK FENCE

TAX MAP 28  
PARCEL 122

1 STORY BRICK & FRAME DWLG.

TAX MAP 28  
PARCEL 106



WILLIAM H. NOYES, JR.  
MD. REG. PROF. L.S. #10723

THE LOT SHOWN HEREON IS IN FLOOD ZONE C PER F.E.M.A. FLOOD INSURANCE RATE MAP PANEL # Z40044 0026 B

The plat is of benefit to a consumer only insofar as it is required by a lender of a title insurance company or its agent in connection with contemplated transfer, financing, or refinancing. The plat is not to be relied upon for the establishment or location of fences, garages, buildings, or other existing or future improvements. The plat does not provide for the accurate identification of property boundary lines, but such identification may not be required for the transfer of title or securing financing or refinancing. The plat contains a tolerance of accuracy of two feet, more or less.

CHAIN LINK FENCE

CONC. WALK

BOW WINDOW

STONING

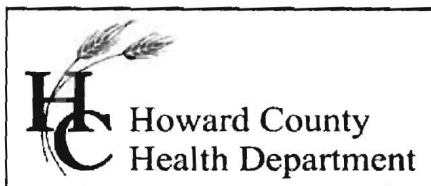
WOOD FENCE

GREEN BRIDGE ROAD  
S 61° 18' 30" W  
125.00'

**H** **HICKS ENGINEERING ASSOCIATES, INC.**  
ENGINEERS, SURVEYORS & PLANNERS  
200 EAST JOPPA ROAD - SUITE 402  
TOWSON, MARYLAND, 21286  
TELEPHONE: (410) 494-0001

LOCATION DRAWING OF  
#5276 GREEN BRIDGE ROAD  
HOWARD COUNTY, MD.  
DEED REF: 4825/273

DATE: 6/12/09 SCALE: 1"=40' FILE: 27554



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DLB  
Enclosures  
cc: Well & Septic program file

A 531871

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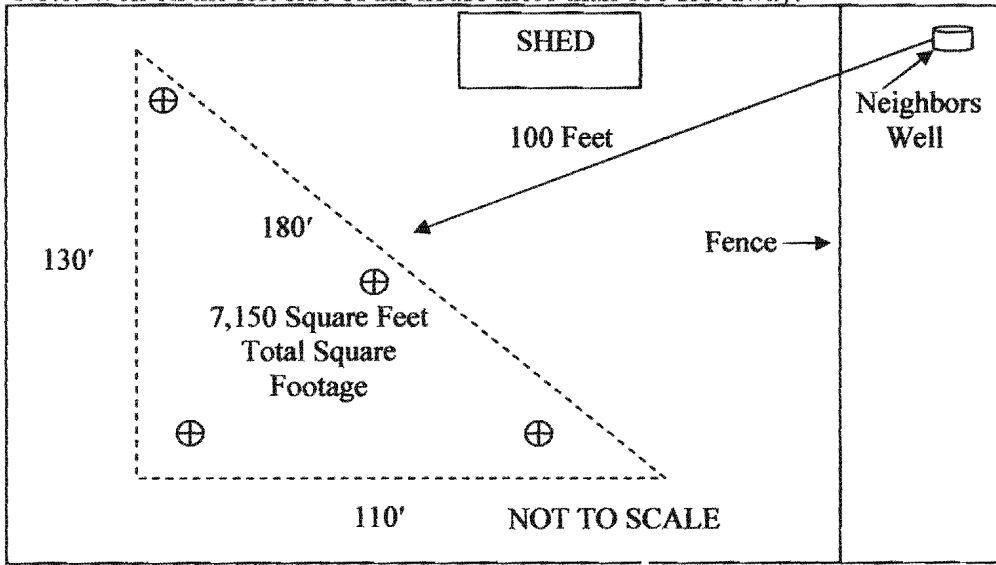
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Sanitarian D. Bernard Backhoe Bill Ingram Others \_\_\_\_\_

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Date: October 5, 2009

To: Bureau of Environmental Health  
Well and Septic Program  
Development and Coordination  
Howard County, MD

Attn: Dana Bernard

From: Eric and Patty Snyder  
5276 Green Bridge Road  
Dayton, MD 21036

Re: Percolation Certification Plan Package

Mrs. Bernard,

Attached you will find the following items in support of the Percolation Certification Plan for 5276 Green Bridge Road – Dayton, MD 21036:

- 1.) Percolation Certification Plan
- 2.) Septic Work Contract with Wesmar Corp.
- 3.) Site Plan
- 4.) Arial Photo showing adjacent wells (Google maps)
- 5.) Percolation Test Results
- 6.) Percolation Information

Well upgrade work has been scheduled for this week and upon completion an inspection will be requested. Once the building permit and applicable septic installation permit has been issued it is our understanding that a site visit with your department, Wesmar Corp., and us will be conducted to layout new septic drain field. Once this is accomplished Wesmar Corp. will begin field activities. Field activities are anticipated to take two weeks to complete. As stated on the Percolation Certification Plan final building approval will not be granted. Lastly, the existing premises will not be occupied until which point all septic systems are installed, inspected, and accepted as functional. Your continued support towards accomplishing these activities is greatly appreciated. Please contact us with any questions or issues needing addressed.

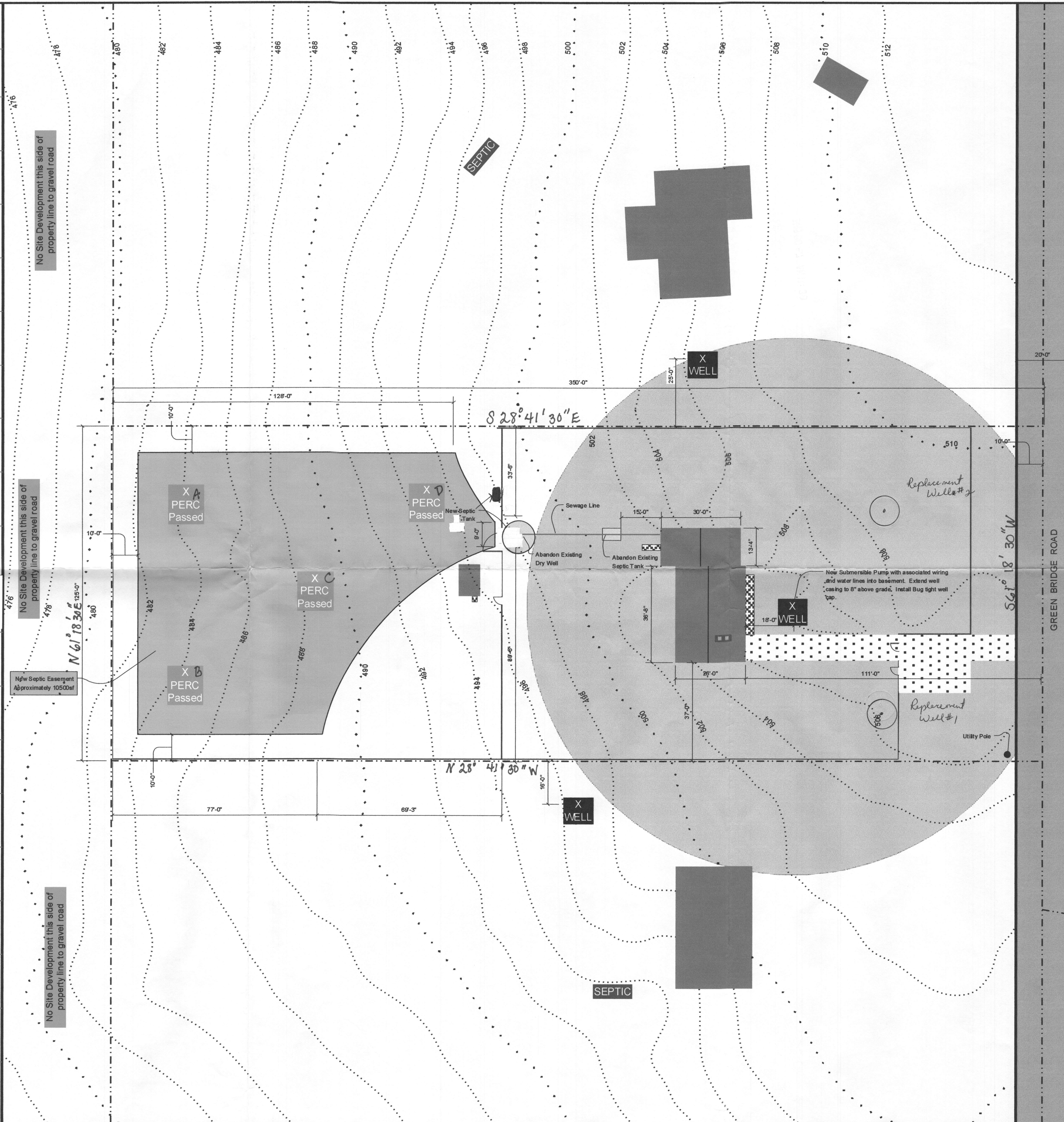
Sincerely,

Eric Snyder  
Cell (240) 752-4089

Patty Snyder  
Cell (443) 528-5658



LEGEND:	
	Existing Well "X" denotes center of well
	Existing Septic System
	New Septic Holding Tank
	Existing Drywell to be Abandoned
	Existing Septic Holding Tank to be Abandoned
	Property Line
	New Septic Easement
	Existing Structure
	PERC Test Location which passed "X" denotes location of PERC Test
	Replacement Wells
	Site Sewer Line
	Existing Concrete
	Existing Gravel
	Asphalt Road
	100' Existing Well easement radius
	Utility Pole
	Contour Line Contour Lines ending in 0
	Contour Line Contour Lines not ending in 0
	Land not developed in this area to gravel road. Unimproved Parcel(s)



**GENERAL NOTES:**

1.) The existing well upgrade must be complete prior to issuance of building permit.

2.) The existing septic tank & drywell are to be abandoned & upgraded with new system prior to final building approval.

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.

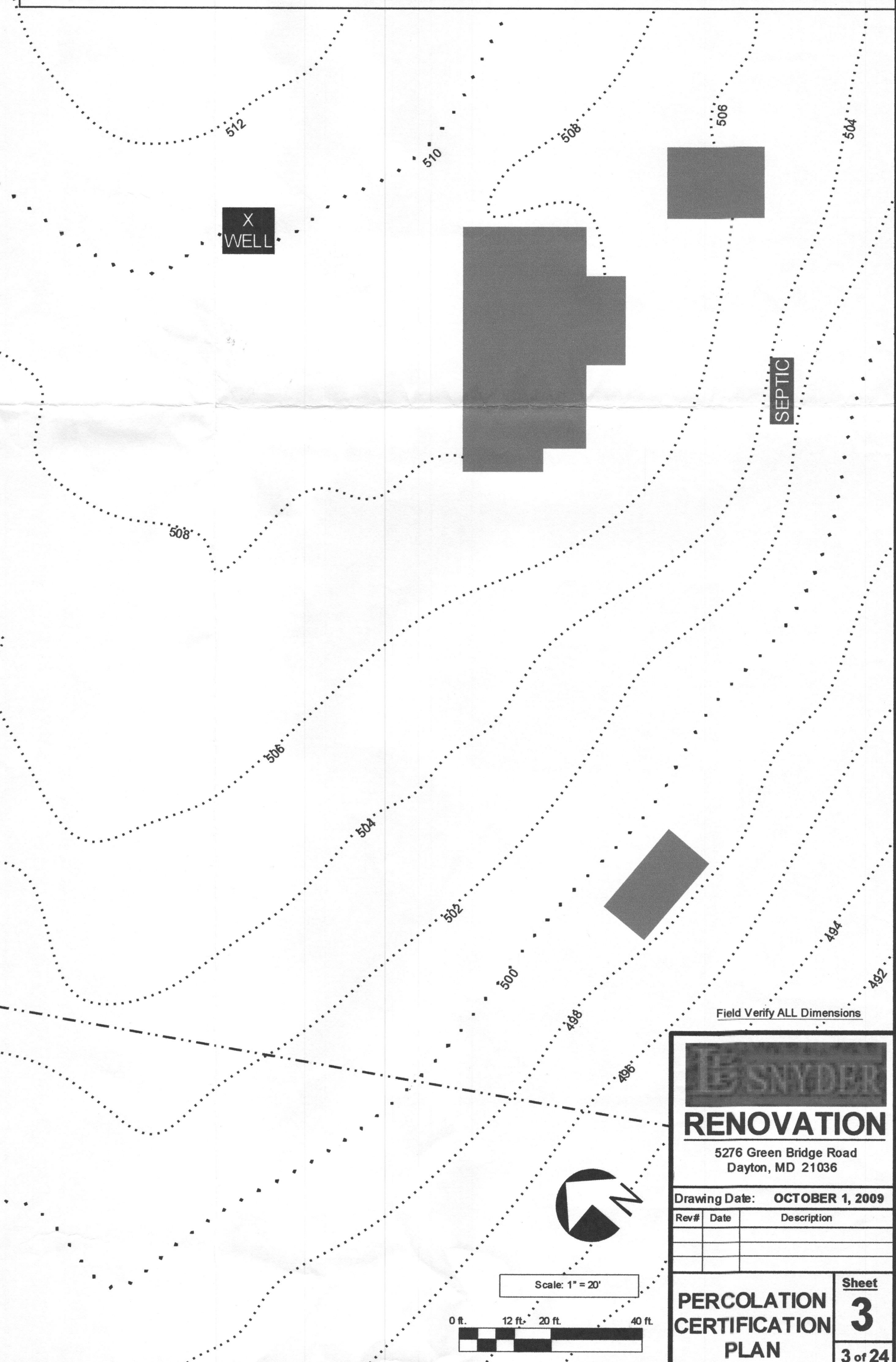
*Eric Snyder* 10/5/09

**STANDARD HOWARD COUNTY NOTES FOR STRUCTURES CREATED BEFORE MARCH 1972:**

- Any changes to a private sewage easement shall require a revised percolation certification plan.
- The topography of this plat is taken from Howard County Geographic Information Systems Division and is verified to accurately represent the relative changes on the subject property.
- All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic systems have been shown.
- "This area designates a private sewage disposal area as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this area are restricted. This sewage disposal area shall become null and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to this private sewage disposal area."
- Plan adapted from drawing prepared by Hicks Engineering created on 6-12-09 in support of building permit # B0900 2374

Health Officer Signature Block  
"Approved For Private Water and Private Sewerage Systems"

*Richard for Peter Bruleman* 10/9/2009  
Health Officer, Howard County Health. Dept. Date



Field Verify ALL Dimensions

**SNYDER RENOVATION**  
5276 Green Bridge Road  
Dayton, MD 21036

Drawing Date: **OCTOBER 1, 2009**

Rev#	Date	Description

**PERCOLATION CERTIFICATION PLAN**

Sheet **3**  
3 of 24

**PROJECT:**  
**SNYDER Renovation**  
 5276 Green Bridge Road  
 Dayton, MD 21036

**SEPTIC DESIGN CALCULATIONS**

**CURRENT HOME CONFIGURATION (TWO BEDROOM)**

**Wastewater Volume Calculation**

Number of Bedrooms = 2

$$2 \times 150 \text{ Gallons/Day} = 300 \text{ Gallons/Day}$$

**Drain Field Sizing Calculation**

Percolation Rate	Application Rate
2 - 5	1.2

Square feet of trench required:

$$300 \text{ gallons/Day} \times 1.2 = 360 \text{ sf}$$

Length of trench (width adjustment)

$$360 / 3' \text{ width} = 120$$

Length of trench (depth adjustment)

$$120 \times 0.83 = 99.6 \text{ lf}$$

**FUTURE HOME CONFIGURATION (FOUR BEDROOM)**

**Wastewater Volume Calculation**

Number of Bedrooms = 4

$$4 \times 150 \text{ Gallons/Day} = 600 \text{ Gallons/Day}$$

**Drain Field Sizing Calculation**

Percolation Rate	Relative Application Rate
2 - 5	1.2

Square feet of trench required:

$$600 \text{ gallons/Day} \times 1.2 = 720 \text{ sf}$$

Length of trench (width adjustment)

$$720 / 3' \text{ width} = 240$$

Length of trench (depth adjustment)

$$240 \times 0.83 = 199.2 \text{ lf} \leftarrow$$

**Septic Tank Sizing**

Current Square Footage = 1353 sf → 1000 Gallon Tank

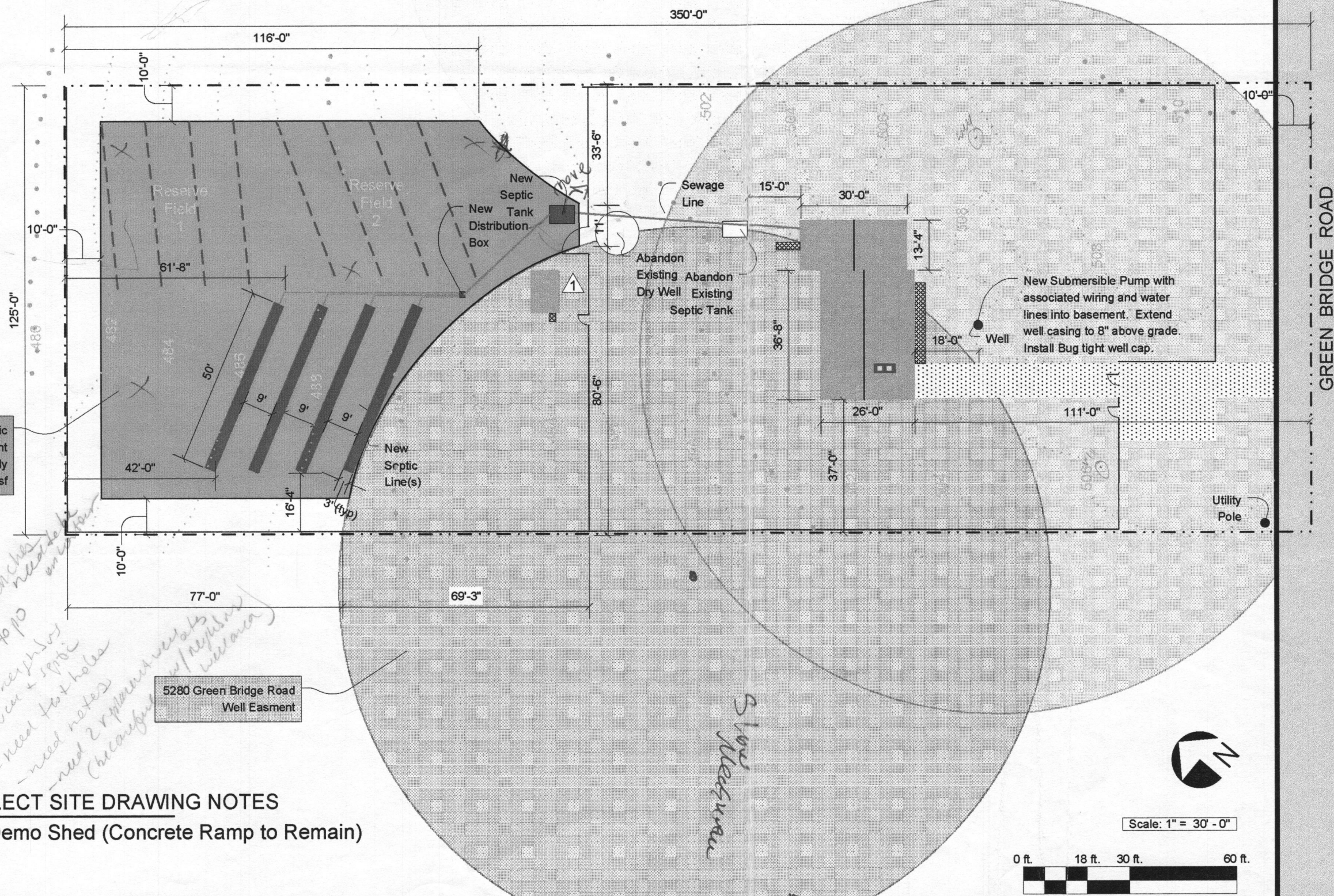
Future Square Footage = 2346 sf → 1500 Gallon Tank ←

Add  
Vexl

5250 Green Bridge Road  
Well Easement

I certify that the information shown hereon is based on fieldwork performed by me or under my direct supervision, and is correct, to the best of my knowledge and believe  
*Eric Snyder*

Accurate  
Shows  
Field  
Holes



New Septic Easement  
Approximately  
10500sf

5280 Green Bridge Road  
Well Easement

GREEN BRIDGE ROAD

Field Verify ALL Dimensions

**E SNYDER**  
**RENOVATION**

5276 Green Bridge Road  
Dayton, MD 21036

Drawing Date: **JUNE 15, 2009**

Rev#	Date	Description
1	9/25/09	Add New Septic System

**SELECT SITE DRAWING NOTES**

▲ Demo Shed (Concrete Ramp to Remain)

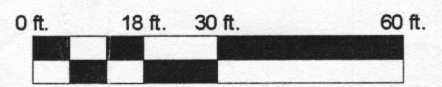
*Darken to po  
- clear neighbors  
- need to spot  
- need to holes  
- need 2 r plan w/ neighbors  
(Chicago)*

*Shed  
Measure*

*5280  
well + 14ft?*



Scale: 1" = 30' - 0"



**SITE  
DRAWING**

Sheet  
**2**  
2 of 23