

tested in
wet season
08

MOUND TEST DATA SHEETS

Property I.D. 2761 R 97 Lot # _____ Date 4/11/08

Sanitarian _____ Landscape Position _____

% Slope _____ Soil Type _____ Contractor _____

HOLE # 617 DEPTH OF TEST 13" START TIME _____

brn & sbk
brn
coarse heavy
sl
brown
coarse sl
CS
brown
medium sl
water

15%
coarse
chert
in patches

5'

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10 16/16	15	0		
10 4/16	15	12/16		
9 5/16	15	15/16		
8 8/16	15	13/16		
7 12/16	15	12/16		
6 16/16	15	12/16		

12/16

Pass

15 min

HOLE # 618 DEPTH OF TEST 24" START TIME _____

brn &
brown
med sl w/ small
micaceous
10% coarse
chert
brn yellow
dense sl sbk
micaceous
brn yellow
dense sl
d(i) mottling
micaceous
coarse sl sp

24"

3'5"

4'

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10 16/16	1:31	0		
10 7.5/16	1:46	8.5/16		
10 2/16	2:01	5.5/16		
9 13/16	2:16	5/16		
9 8.5/16	2:31	4.5/16		
9 4.5/16	2:46	4/16		
9 1/16	3:01	3.5/16		
8 13.5/16	3:16	3.5/16		
8 9/16	3:31	4.5/16		

Pass

1 hr. = 60 min

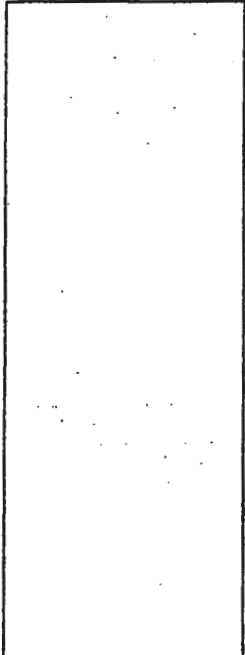
MOUND TEST DATA SHEETS

Property I.D. Rt. 97 (2741) Lot # _____ Date 4/11/08

Sanitarian HS/SS Landscape Position _____

% Slope _____ Soil Type 6nB Contractor Heritage

HOLE # 622 DEPTH OF TEST _____ START TIME 10:55



Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10 10/16	15	0		
10 14/16	15	2/16		
10 13/16	15	1/16		
10 12/16	15	1/16		
10 11/16	15	1/16		

Fail

HOLE # 624 DEPTH OF TEST 16" START TIME 12:15

8' brn & 1fsbk
 ↓
 2.3' brn scl
 ↓
 brn sicl
 2csbk
 ↓
 3' brn vst sl
 40% boulders
 H₂O @ 4'

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10 10/16	15	0		
10 2/16	15	14/16		
9 7/16	15	12/16		
8 14/16	15	9/16		
8 5/16	15	9/16		
7 13/16	15	8/16		

30 min

4'

MOUND TEST DATA SHEETS

Property I.D. 2701 Rt 97 Lot # _____ Date 4/11/08

Sanitarian _____ Landscape Position _____

% Slope _____ Soil Type _____ Contractor _____

HOLE # 621 DEPTH OF TEST 20" START TIME _____

brown l sg
brown
heavy s l sg
micaceous
20"
brn yellow
dense scl
m
24"
brn yellow
dense scl m
f(±) mottling
3'5"
d(l) mottling
dense s l
4'5"
coarse s l
d(l) mottling
micaceous
5' → 6 1/2 water

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10 16/16	1:55	0		
10 14/16	2:10	2/16		
10 12/16	2:25	2/16		
10 11/16	2:40	1/16		
10 9/16	2:55	2/16		

Failed

HOLE # 614 B DEPTH OF TEST 10" START TIME _____

Same as
614 A

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10 16/16	11:06	0		
10 7/16	11:21	9/16		
9 14/16	11:34	9/16		
9 6.5/16	11:51	8.5/16		
8 15.5/16	12:06	7/16		
8 8.5/16	12:21	7/16		
8 0.5/16	12:36	8/16		

Pass

30 min

MOUND TEST DATA SHEETS

Property I.D. Rt. 97 Lot # _____ Date 4/11/08

Sanitarian HS/SS Landscape Position _____

% Slope _____ Soil Type _____ Contractor Heritage

HOLE # 619 DEPTH OF TEST 18" START TIME 1:43

8"
2"
7"

brn s
2 f bk.
dense
brn s cl
sticky

micaceous
brn s l
w/ gray
mottles

came in
@ 4.5'
H₂O @ 7'

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10 16/16	15	Ø		
10 15/16	15	1/16		
10 15/16	15	Ø		

Paul

HOLE # ~~617~~ DEPTH OF TEST ~~13"~~ START TIME ~~2:45~~

[Empty box]

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10 16/16	15	Ø		
10 4/16	15	12/16		
9 5/16	15	15/16		
8 8/16	15	13/16		
7 12/16	15	12/16		
6 16/16	15	12/16		

MOUND TEST DATA SHEETS

Property I.D. 2761 Rt 97 Lot # _____ Date 4/11/08

Sanitarian _____ Landscape Position _____

% Slope _____ Soil Type _____ Contractor _____

HOLE # 623 DEPTH OF TEST 15" START TIME _____

brown sl sbk
 brown yellow med. sl sbk
 brown coarse sl sp stony 50%
 water 5'5" - 5'9"
 7'

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10 ¹⁰ / ₁₆	10:42	⊘		
10 ⁶ / ₁₆	10:57	10/16		
9 ¹¹ / ₁₆	11:12	11/16		
9 ⁴ / ₁₆	11:27	7/16		
8 ¹⁰ / ₁₆	11:42	10/16		
8 ² / ₁₆	11:57	8/16		
7 ^{7.5} / ₁₆	12:12	10.5/16		
7	12:27	7.5/16		
6 ^{7.5} / ₁₆	12:42	8.5/16		

30 min Pass

HOLE # 622 DEPTH OF TEST 18" START TIME _____

dark brown sl sbk
 brown med. sl sbk micaceous
 brown yellow/grey p(2) micaceous
 med. sl sp micaceous
 grey med. sl sp
 water 8'7"
 10'

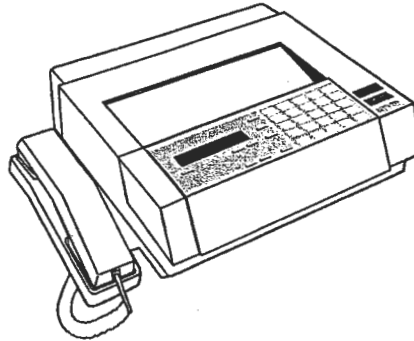
Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10 ¹⁰ / ₁₆	10:52	⊘		
10 ¹⁴ / ₁₆	11:07	2/16		
10 ¹³ / ₁₆	11:22	1/16		
10 ¹² / ₁₆	11:37	1/16		
10 ¹¹ / ₁₆	11:52	1/16		

hard rock

fail

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

F A X



Date 5/5/08

To Zach

Department FSH

FAX # 410-796-1562

From Sana

Telephone 410-313-4261 FAX (410) 313-2648

Of Pages 7 (including cover page)

Comments Placella perc results

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FSH ASSOCIATES

TRANSMITTAL

TO: Howard County Health Department Well and Septic Program 7178 Columbia Gateway Drive Columbia, Maryland 21046	DATE: September 23, 2008		
	JOB NUMBER: 3010		
	JOB NAME: Placella Property		
	REGARDING: Percolation Certification Plan		
FROM: Alla Yablonovskaya			

	FOR YOUR INFORMATION	X	FOR YOUR APPROVAL		
	AS PER YOUR REQUEST		FOR YOUR USE		
	FOR REVIEW AND COMMENT		APPROVED AS SUBMITTED		
X	HAND DELIVERED		OVERNIGHT	AM	PM

COPIES	DATE	NO.	DESCRIPTION OF MATERIAL TRANSMITTED
1	9/22/08		Point by Point Response Letter
1	9/22/08		Placella Percolation Certification Plan- Original
2	9/22/08		Placella Percolation Certification Plan- Copies

REMARKS:

September 22, 2008

Howard County Health Department
Bureau of Environmental Health
Well and Septic Program
7178 Columbia Gateway Drive
Columbia, MD 21046
Attn: Dana Bernard, Sanitarian

Re: Placella Property

Dear Ms. Bernard:

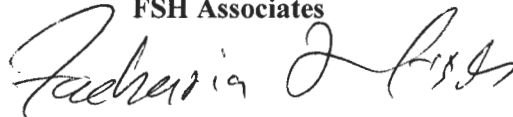
Enclosed please find one original and two (2) paper copies of the percolation certification plan for signature.

Also, we are transmitting herewith a point-by-point response to your comments dated 7/23/08.

1. Please see "Perc Chart" where the percolation test hole number and field run elevation is depicted.
2. Holes that have not been dug were removed.
3. The location of the test holes is based on field survey. Please inform us at 410-567-5200, when a field visit is scheduled if at all necessary.
4. The existing grade slopes within the sand mound easement are less than 12% steep.
5. Please see General Note 11.
6. The proposed wells downhill from the sand mound are at least 200 feet away. The slopes of the existing ground within the septic easement are 12% or less. 2-foot contours are depicted and elevations were verified by ground shots in the field.
7. Please see the updated legend on the plan.
8. A septic area associated with the sand mound beds is shown.
9. The toe of the mound area is within the requested 6 inch allowed variation.
10. Please see General Note.

Should you have any questions or comments regarding this matter, please do not hesitate to contact this office.

Sincerely,
FSH Associates



Zacharia Y. Fisch, P.E.

ZYF:db
CC: File 3010

S:\WORD Documents\FSH Associates\Job Letters\Bernard, Dana - HoCoHealth.doc

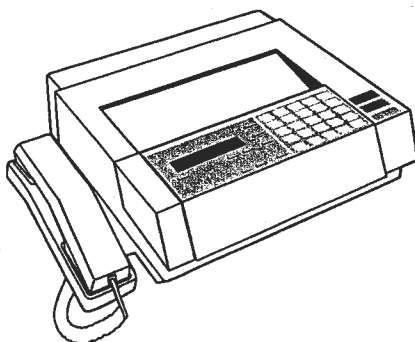


Howard County
Health Department

Bureau of Environmental Health
7178 Columbia 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

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

F A X



Date

3/11/08

To

Zach

Department

FSH

FAX #

410-796-1562

From

Sara

Telephone

410-313-4261

FAX (410) 313-2648

Of Pages

9

(including cover page)

Comments

Placella Prop.

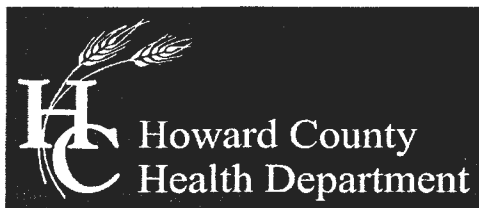
Let 2 mound locations ok

Let 1 is the one needing reconfigured.

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website: www.hchealth.org

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

May 5, 2008

Lou Placella
JB Services of West Virginia
2761 Route 97
Glenwood, Maryland 21738

RE: PERCOLATION TEST RESULTS –
A#526654 and A#526654-A
2761 Rt 97

Dear Mr. Placella:

Percolation testing conducted April 11, 2008 on the referenced property indicated both satisfactory and unsatisfactory soil conditions. Limiting factors influencing soil conditions included shallow water tables and dense soil material. Sufficient septic area was not found for Lot 2. Copies of the test results are enclosed.

Further review is contingent upon submission of a percolation certification plan. Enclosed are the requirements for a percolation certification plan.

If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-4261.

Sincerely,

Sara Sappington, R.S.
Well and Septic Program
Development Coordination Section

Enclosures

(c) *Prohibited Methods of On-Site Sewage Disposal.*

- (1) *Cesspool or septic tank.* A cesspool, septic tank, or other means of private sewage disposal is not permitted wherever a sewer under public ownership adjoins the property in question. Each existing cesspool or other means of on-site sewage disposal shall be eliminated and abandoned. It is the owner's responsibility that abandoned sewage disposal systems are disconnected from the buildings, pumped out, and filled with earth.
- (2) *Insufficient Lot Area or Improper Soils.* When the approving authority finds there to be insufficient lot area or improper soil conditions for adequate sewage disposal for the building or land use proposed, a building permit shall not be issued and an on-site sewage disposal system shall not be permitted.

(d) *Additions, Alterations and Changes.* On-site sewage disposal systems serving existing structures, for which additions, alterations, or changes in use are proposed, shall be determined by the approving authority as capable of handling existing and reasonably foreseeable increases in sewage flow based on soil permeability rate, amount, and type of usable soils, water table depth, use of property, and maximum sewage flow as outlined in the provisions of this subtitle.

(e) *Construction Materials.* Materials of construction shall be as indicated in this subtitle and the National Standard Plumbing Code (2006), as adopted in Subtitle 3 of this title of the Howard County Code. Where materials are not shown or indicated by a standard or by a recognized testing agency specification, materials shall conform to the standards sited in the National Standard Plumbing Code (2006), as adopted in Subtitle 3 of this title of the Howard County Code.

(f) *Insanitary Conditions—Approval of Other Methods.* When there are existing public health hazards due to insanitary conditions caused by malfunctioning on-site sewage disposal systems and the unsanitary conditions cannot be eliminated through the use of conventional sewage disposal systems, the approving authority may

grant a waiver to the requirements of this subtitle in accordance with section 3.803 and COMAR and may approve the installation of non-conventional sewage disposal systems.

(g) *Separation of Ground Water.* The separation to the ground water shall be maximized for the installation of an on-site sewage disposal system and shallow system designs shall be required where feasible.

(h) *Approving authority.*

- (1) *Generally.* Wherever the provisions of this subtitle are more strict than the requirements contained in comar, the approving authority shall administer, enforce, and interpret the provisions of this subtitle and may adopt minimum standards in accordance with this subtitle and comar for the design and construction of on-site sewage disposal systems in the implementation of this subtitle.
- (2) *Stricter standards.* Nothing contained in this subtitle shall be construed to prevent the approving authority from requiring compliance with more strict standards than those contained herein where such stricter standards are essential to maintain a safe and sanitary condition.

(Ord. No. 81, 2006, § 1)

Sec. 3.805. PERC certification plan requirements.

(a) *PERC Certification Plan.* Except as provided in paragraph (1) of this subsection, before a building permit is issued, a PERC certification plan shall be submitted and approved that complies with the provisions of this subtitle.

- (1) A building permit may be exempt from a PERC certification plan when the proposed structure:
 - (i) Does not increase the amount of living space;
 - (ii) Is less than 250 square feet and is not a garage; and
 - (iii) The existing on-site sewage disposal system is adequate for the existing property use.

- (2) A required PERC certification plan shall contain the following.
- (i) Identification of the property, road, street address if applicable, tax map page, parcel number, subdivision name (if appropriate); a purpose statement as appropriate (re-subdivision, sda adjustment, etc.).
 - (ii) Name, address, and telephone number of the owner, developer, and the person preparing the plan.
 - (iii) The date the plan was drawn, the plan scale (1:30 — 1:100), a scaled vicinity map and if not a preliminary plan, the PC # (percolation test fee receipt number, referenced in the approving authority correspondence).
 - (iv) Health Officer signature block conditioned with "approved for private water and private sewerage systems."
 - (v) Existing and any proposed property lines.
 - (vi) Except for staked holes not dug, all excavated test holes observed by the approving authority, identified according to the original percolation testing proposal, or, as otherwise identified at the time of testing.
 - (vii) Actual surveyed elevation (not based on county aerial topography) of each test hole.
 - (viii) Legend symbols to distinguish holes, which passed, failed, or were held for future review (e.g., for wet season).
 - (ix) Legend symbols to distinguish between existing holes previously documented and new holes.
 - (x) For lots created after March 1972, proposed minimum 10,000 sq. ft. sewage disposal area for each lot and for lots created before March 1972, proposed adequate area for an initial system and 2 repairs.
 - (xi) Field verified/field run topography at two-foot intervals and statement certifying such. One-foot intervals are required for mound systems and systems with pipe depth less than two feet.
 - (xii) Existing structures, wells, septic systems and sewage easements (list use and intent designated for each).
 - (xiii) 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 each lot.
 - (xiv) If required, certification that a groundwater appropriations permit will be issued and all wells will be drilled prior to plat.
 - (xv) Identification of streams, ponds, floodplains, 25% and greater slopes, soil types and soil type boundaries.
 - (xvi) Suitable house site (55 feet × 70 feet) and driveway with building restriction lines as determined by other county agencies.
 - (xvii) All existing wells, septic systems and sewage disposal easements within 100 feet of property boundaries and a note stating such. All existing and proposed wells, septic systems and sewage disposal systems that are located within 200 feet down gradient of existing or proposed septic systems and sewage disposal easements. The engineer shall use all reasonable efforts to find the location of all surrounding wells and septic systems and a note stating such.
 - (xviii) Professional seal or signed statement that "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."
 - (xix) Include the following statement "any changes to a private sewage easement shall require a revised perc certification plan."

(xx) one of the following statements as applicable:

- a. "MDE sewage easement statement for lots created after march 1972: 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 authority to grant adjustments to the private sewage easement. Recordation of a revised sewage easement shall not be necessary."; or
- b. "MDE sewage disposal area statement for lots created before March 1972: 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 the private sewage disposal area."

(xxi) For proposed subdivisions and retests of lots created after November 1985, certification of compliance with MDE ownership width requirements and the statement that "the lot(s) shown hereon complies/comply with the minimum ownership width and lot area as required by the Maryland Department of Environment."

(Ord. No. 81, 2006, § 1)

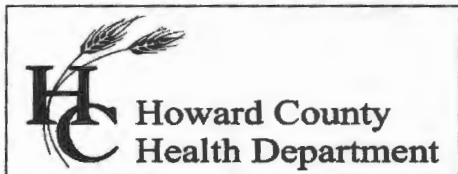
Sec. 3.806. Permits required.

(a) *On site sewage disposal permit; minor septic repair permit.*

(1) *When required.* Where a public sewage disposal system is not available and construction is contemplated for a building for human occupancy or use, or an addition to or alteration of any existing on-site sewage disposal system is proposed, the master plumber, disposal system contractor, or owner shall, prior to beginning any construction, make an application to the approving authority for a minor septic repair permit or an on-site sewage disposal permit in accordance with the requirements of this section and section 12.106(a) of the Howard County Code in order to perform the necessary installation or modification to the existing on-site sewage disposal system.

(2) *Percolation test application.* Before a permit to make the desired installation is issued, a percolation test application, in a form required by the approving authority, shall be obtained and approved. For single family dwellings where it is necessary to replace an existing component of the septic system other than the soil absorption component, a percolation test application will not be required in order to obtain a minor septic repair permit. The approving authority shall require a soil evaluation, including percolation and other pertinent tests, to be conducted under its supervision, with such information to be made a part of the application.

(3) *Percolation test rate results.* The conventional percolation test rate may range between 2 and 30 minutes per inch or up to 60 minutes per inch for a conventional sand mound system. The results of percolation tests shall be considered in conjunction with available information on topography, soil type and conditions, surface and subsurface drainage conditions, water table level, the history of failing septic systems in surrounding areas, and soil map data.



BUREAU OF ENVIRONMENTAL HEALTH

7178 Columbia Gateway Drive,
Columbia, MD 21046
Phone (410) 313-2640 Fax (410) 313-2648

TDD (410) 313-2323
Toll Free 1-866-313-6300
Website: www.hchealth.org

FAX

To: Attention: Zach Fisch, PE FSH Associates, Inc.	From: Dana Bernard
Fax: (410) 796-1562	Pages: 2
Phone: (410) 567-5200	Date: 11/05/2008
Re: Placella Property, Job #3010	cc:

Comments:

If you have any questions or correspondence, I can be reached at the above address or by telephone at (410) 313-2775.

Thanks,

Dana Bernard, Sanitarian
Bureau of Environmental Health
Well and Septic Program
Phone (410) 313-2775
Fax (410) 313-2648
E-mail: DBernard@howardcountymd.gov

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Health Department

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Website: www.hchealth.org

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

MEMORANDUM

TO: Zach Fisch, P.E.
FSH Associates

FROM: Dana Bernard
Well and Septic Program
Development Coordination Section

RE: File Number: Job # 3010
Title: Placella Property Perc Certification Plan

DATE: November 5, 2008

The following comments apply to the plan prepared by FSH Associates.
Applicant is advised to revise and resubmit prior to signature.

- Topography must be field run/verified by a licensed surveyor or engineer must have (1) one foot contour intervals.

The general notes must also be revised:

- Note: # 5. All wells downhill from an uphill sand mound septic field, with a 200 foot setback have been shown.

October 23, 2008

Howard County Health Department
Bureau of Environmental Health
Well and Septic Program
7178 Columbia Gateway Drive
Columbia, MD 21046
Attn: Sara Sappington

Re: Placella Property

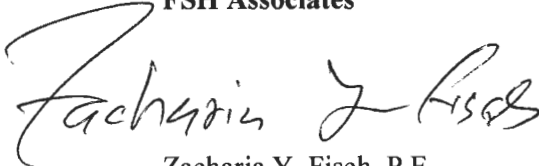
Dear Mrs. Sappington:

In response to your comments dated 10/8/08, we are submitting herewith a revised percolation test certification plans and a point by point response to your comments.

1. The test holes elevations are depicted in "Percolation test elevations chart" located below the general notes.
2. Per your comment, holes 617 and 618 were utilized for the sandmound designated septic reserve area.
3. Please see revised general note number 5.
4. Please see revised general note number 11.

Should you have any questions or comments regarding this matter, please do not hesitate to contact this office.

Sincerely,
FSH Associates



Zacharia Y. Fisch, P.E.

ZYF:db
CC: File 3010

S:\WORD Documents\FSH Associates\Job Letters\Sappington - HoCoHealth - 3010.doc

FSH ASSOCIATES

TRANSMITTAL

TO: Dana Bernard, Sanitarian Howard County Health Department 7178 Columbia Gateway Drive Columbia, Maryland 21046	DATE: October 23, 2008
	JOB NUMBER: 3010
	JOB NAME: Palcella Property
	REGARDING: Percolation Application
FROM: Heather Sterquel	

FOR YOUR INFORMATION	<input checked="" type="checkbox"/>	FOR YOUR APPROVAL
AS PER YOUR REQUEST	<input type="checkbox"/>	FOR YOUR USE
FOR REVIEW AND COMMENT	<input type="checkbox"/>	APPROVED AS SUBMITTED
REGULAR MAIL	<input checked="" type="checkbox"/>	HAND DELIVERED

COPIES	DATE	NO.	DESCRIPTION OF MATERIAL TRANSMITTED
3	10.22.08	1	Percolation Test Certification Plan Office, 1 original & 2 copies
1	10.23.08	1	Letter

REMARKS:

HP Color LaserJet 2840

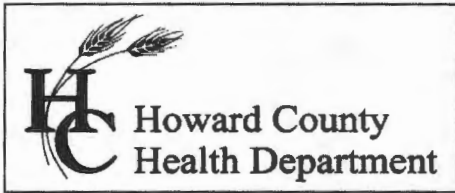


HP LASERJET FAX

Nov-5-2008 5:26PM

Fax Call Report

Job	Date	Time	Type	Identification	Duration	Pages	Result
3062	11/ 5/2008	5:25:50PM	Send	914107961562	1:00	2	OK



7178 Columbia 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

FAX

To: Zach Fisch, PE	From: Dana Bernard
Fax: (410) 796-1562	Pages: 3
Phone: (410) 567-5200	Date: 7/23/2008
Re: Placella Property Job # 3010	cc:

Comments:

I have attached a list of comments pertaining to the plat submitted. These items must be corrected on plat for review. If you have any questions don't hesitate to call. My number is listed below.

Thanks

Dana Bernard, Sanitarian
Bureau of Environmental Health
Well and Septic Program
Phone (410) 313-2775
Fax (410) 313-2648
E-mail: DBernard@howardcountymd.gov



7178 Columbia Gateway Drive, Columbia MD 21046
Phone (410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
Website: www.hchealth.org

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

MEMORANDUM

TO: Zach Fisch, P.E.
FSH Associates

FROM: Dana Bernard
Well and Septic Program
Development Coordination Section

RE: File Number: Job # 3010
Title: Placella Property Perc Certification Plan

DATE: July 23, 2008

The following comments apply to the plan prepared by FSH Associates.
Applicant is advised to revise and resubmit prior to signature.

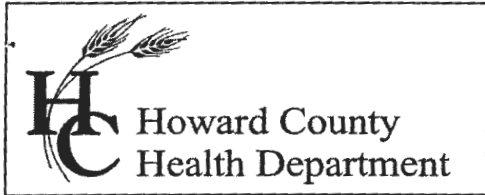
- Elevations of test holes should be shown.
- Remove holes that have not been dug. Remove from plan and legend.
- At this time a site visit will be necessary to verify the location of test hole 614A and 614B. The visit will be conducted by the health department and the information will be passed on to the engineer to complete the perc certification plan.
- The sand mound easement should have a less than 12% slope.
- Topography must be field run/ verified by a licensed surveyor or engineer.
- Downhill location of well requires a 200 foot setback from proposed sand mound septic easement. The sand mound easement should have a less than 12% slope. Show 1 foot contour intervals.
- Legend symbols to distinguish between passed and failed sand mound holes. (Refer to perc notes to determine passed and failed holes.)

- A 10,000 ft² septic area needs to be shown.
- Verify no greater than a 6" variation on toe slope for sand mounds.
- The following statement must be added to the general notes. **"Any changes to a private sewage easement shall require a revised perc certification plan."**

If you have any questions don't hesitate to call. My information is listed below.

Dana L. Bernard

Dana L. Bernard, Sanitarian
Bureau of Environmental Health
Well and Septic Program
Phone (410) 313-2775
Fax (410) 313-2648
E-mail: Bernard@howardcountymd.gov



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January 13, 2008

Louis Placella
P.O. Box 280
Glenwood, MD 21738

**RE: Perc Certification Status
9.4 acre lot 2161 on Route 97**

Dear Sir:

Our office reviewed the Perc Certification Plan submitted on January 9, 2009. The plan must have field run topography at one foot contour intervals as required by the Howard county Code Section 3.805 2 (xi). One foot contour detail must be provided to illustrate that the three mound systems can be positioned on the property such that the lower edge of the mound area has no more than one foot of elevation difference.

As discussed, the perc results do not expire and you may continue this process at a later date. If you resume the process after the perc test application expires on April 18, 2009, additional plan review fees may be required to reactivate the project, however, the perc results and plans will be retained in paper until they become a permanent electronic file.

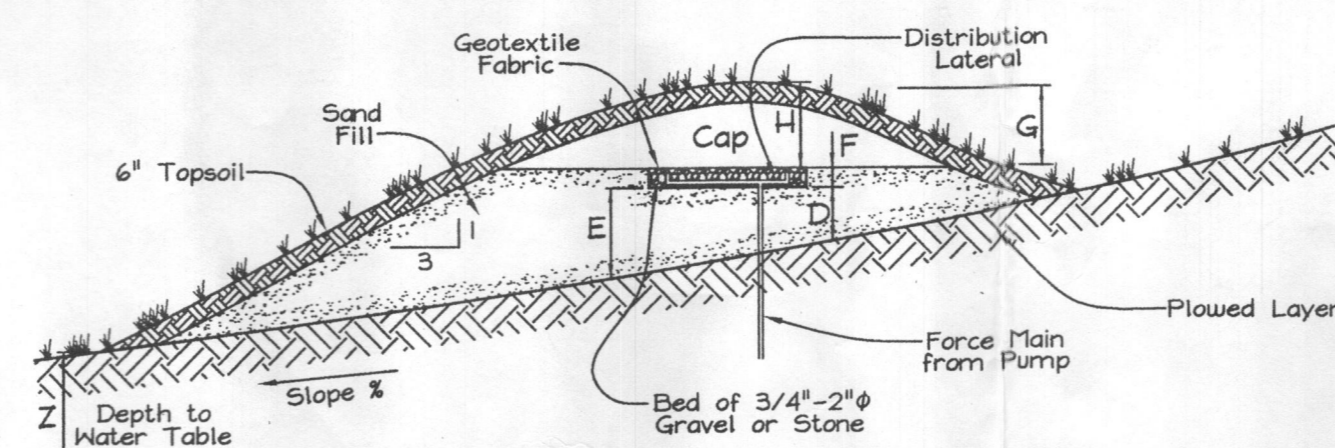
If you have any questions, I may be reached at (410) 313-2651.

Sincerely,

Michael J. Davis
Assistant Director
Bureau of Environmental Health

C: FSH
File

SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	SOIL GROUP
Ba	Baile silt loam	D
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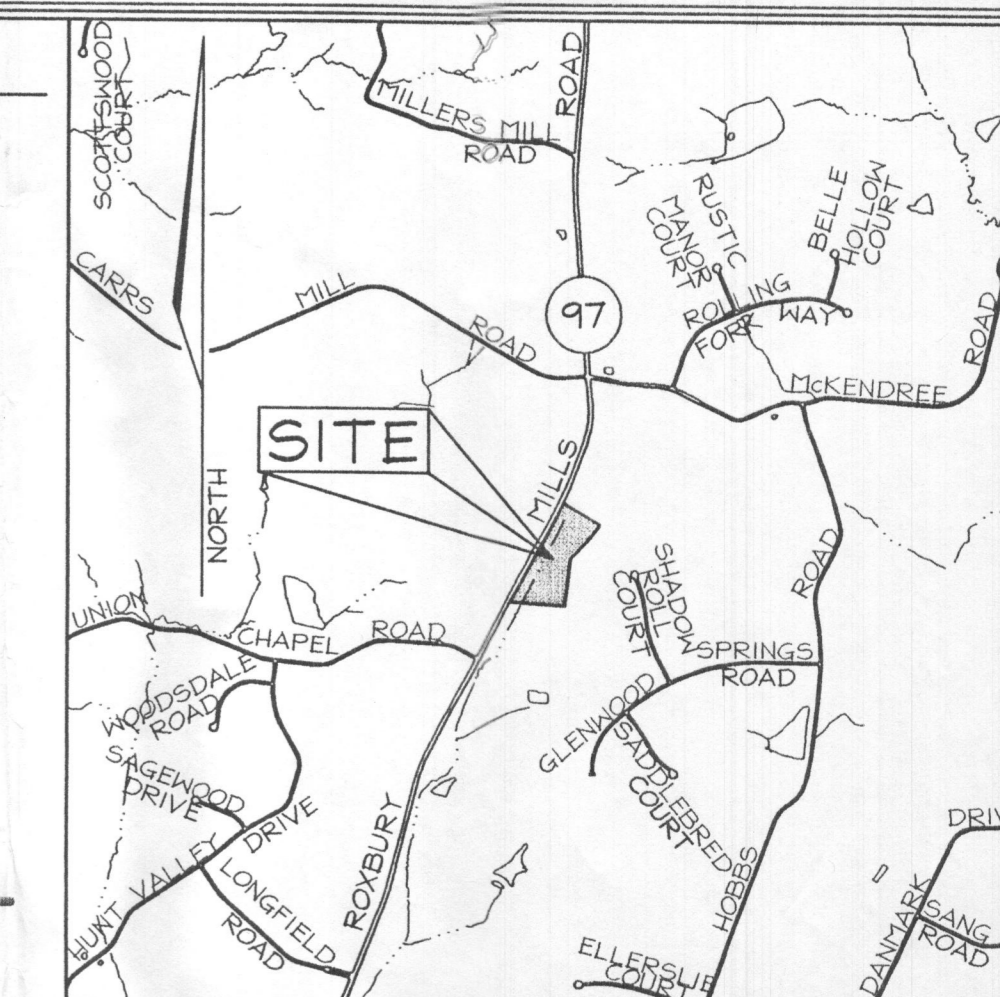


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 H = Cap and Topsoil Height at Bed Center(inches)
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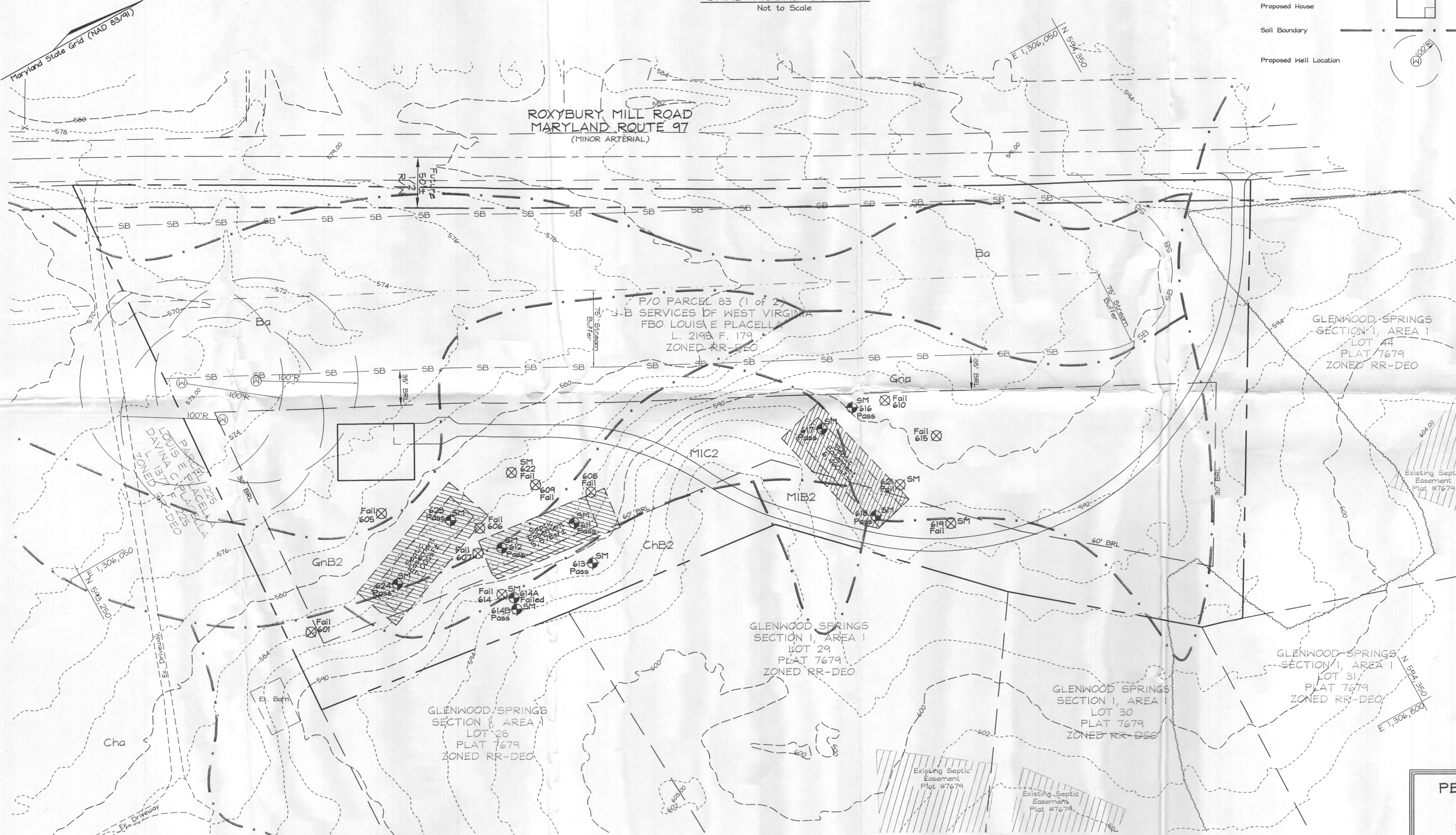
SAND MOUND DETAIL
 Not to Scale

LEGEND

- Existing Contour
- Existing Spot Elevation
- Existing Trees to Remain
- Existing Septic Easement
- Proposed Sand Mound Easement
- Sand Mound Percolation Test
- Perc Test Passed
- Perc Test Failed
- Existing Well
- Proposed House
- Soil Boundary
- Proposed Well Location



VICINITY MAP
 SCALE: 1"=2000'



GENERAL NOTES

- Subject property zoned RR-DEO per 02/02/04 Comprehensive Zoning Plan, and per the Comprehensive Lite Zoning Amendments effective 07/28/06.
- Total area of property = 9.948 ac.±
- Private water and private sewage will be used within this site.
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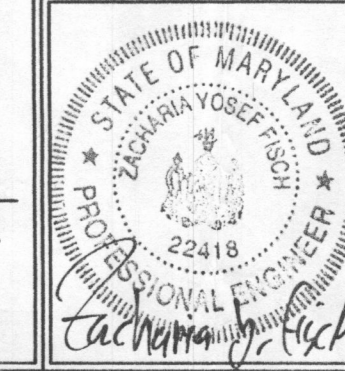
PERCOLATION TEST ELEVATIONS CHART

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618	591.85
623	582.46
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PERCOLATION CERTIFICATION PLAN
PLACELLA PROPERTY
 SE ROUTE 97 ROXYBURY MILL ROAD
 PART/PARCEL 1 OF 2
 TAX MAP 14 GRID 17 4TH ELECTION DISTRICT PARCEL 83 HOWARD COUNTY, MARYLAND

OWNER/DEVELOPER
 J B SERVICES OF WEST VIRGINIA
 FBO LOUIS E PLACELLA
 12 W Church Street
 Frederick, Maryland 21701-5409

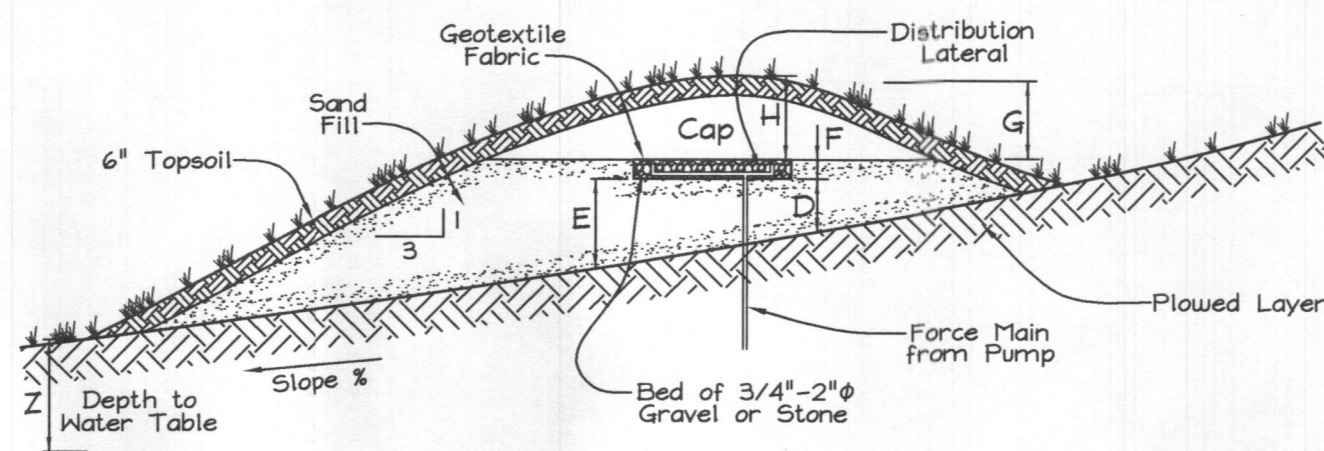


FSH Associates
 Engineers Planners Surveyors
 6339 Howard Lane Elkridge, MD 21075
 Tel: 410-587-5200 Fax: 410-796-1862
 E-mail: info@fsheri.com

DESIGN BY: ZYF
 DRAWN BY: AT
 CHECKED BY: ZYF
 SCALE: 1" = 50'
 DATE: Oct. 20, 2008
 W.O. No.: 3010
 SHEET No.: 1 OF 1

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
 COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT
 DATE

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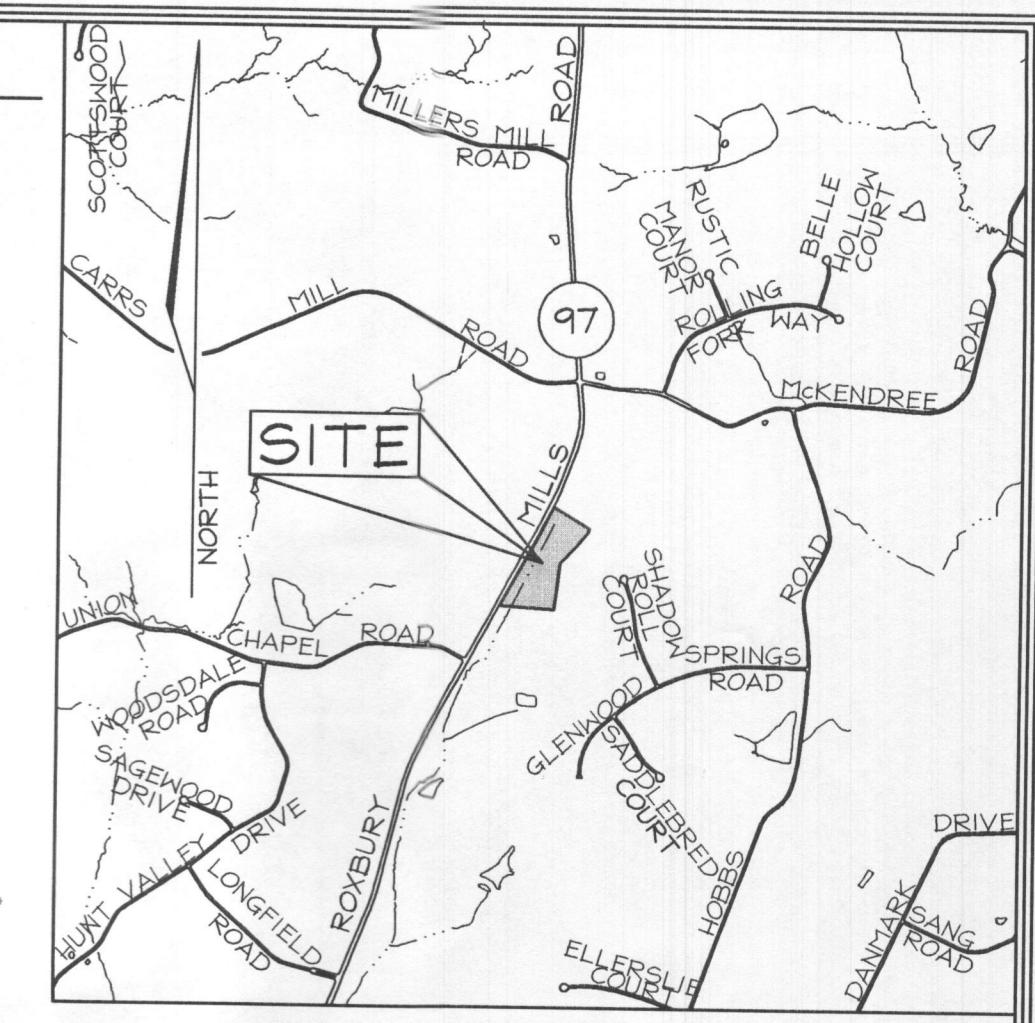


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 Not to Scale

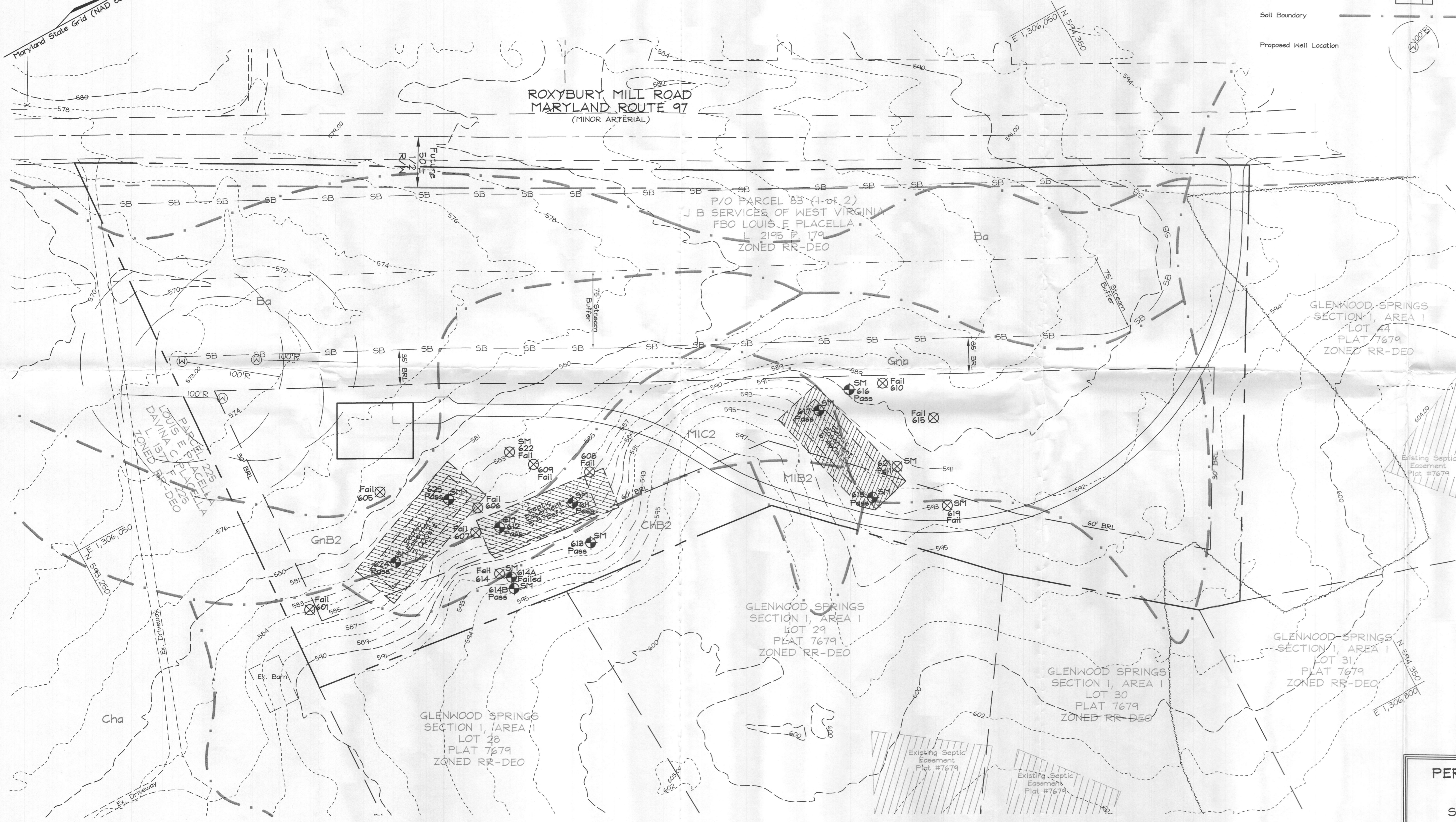
LEGEND

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- Existing Spot Elevation
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- Existing Septic Easement
- Proposed Sand Mound Easement
- Sand Mound Perculation Test
- Perc Test Passed
- Perc Test Failed
- Existing Well
- Proposed House
- Soil Boundary
- Proposed Well Location



VICINITY MAP
 SCALE: 1" = 2000'

ROXYBURY MILL ROAD
MARYLAND ROUTE 97
 (MINOR ARTERIAL)



GENERAL NOTES

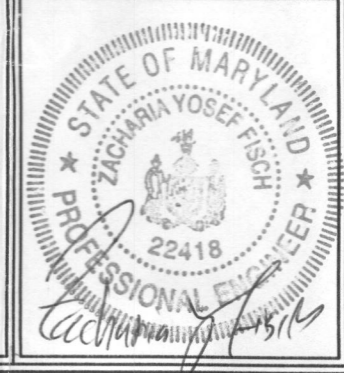
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 PART/PARCEL 1 OF 2
 TAX MAP 14 GRID 17
 4TH ELECTION DISTRICT
 PARCEL 83
 HOWARD COUNTY, MARYLAND



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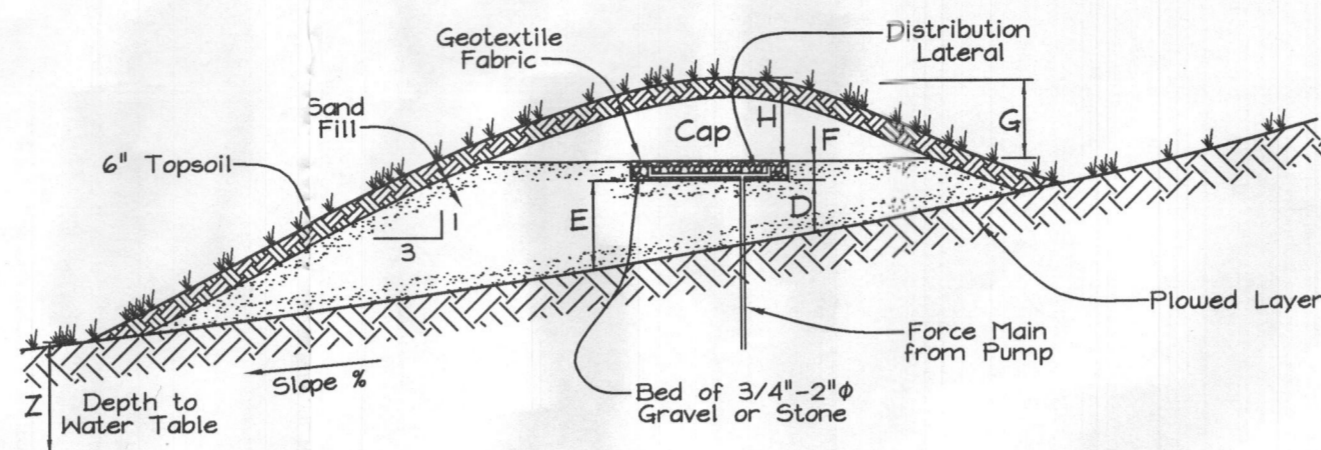
DESIGN BY: ZTF
 DRAWN BY: AY
 CHECKED BY: ZTF
 SCALE: 1" = 50'
 DATE: Nov. 10, 2008
 W.O. No.: 3010
 SHEET No.: 1 OF 1

OWNER/DEVELOPER
 J B SERVICES OF WEST VIRGINIA
 FBO LOUIS E. PLACELLA
 12 N Church Street
 Frederick, Maryland 21701-5409

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE

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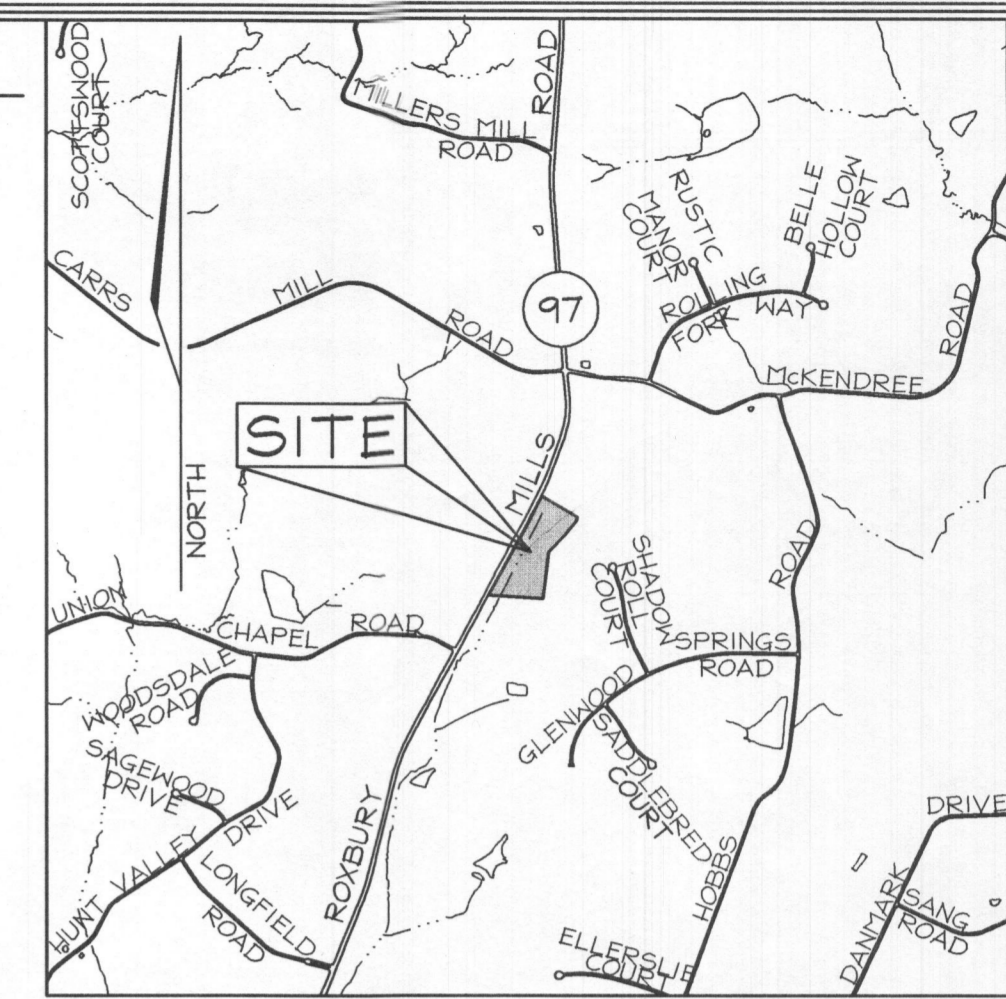


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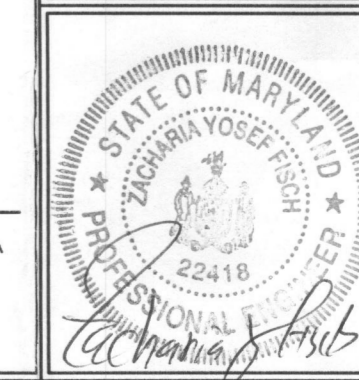
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**PERCOLATION CERTIFICATION PLAN
 PLACELLA PROPERTY**

SE ROUTE 97 ROXYBURY MILL ROAD
 PART/PARCEL 1 OF 2

TAX MAP 14 GRID 17 PARCEL 83
 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



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DESIGN BY: ZYF
 DRAWN BY: AY
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 SCALE: 1" = 50'
 DATE: Nov. 10, 2008
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OWNER/DEVELOPER

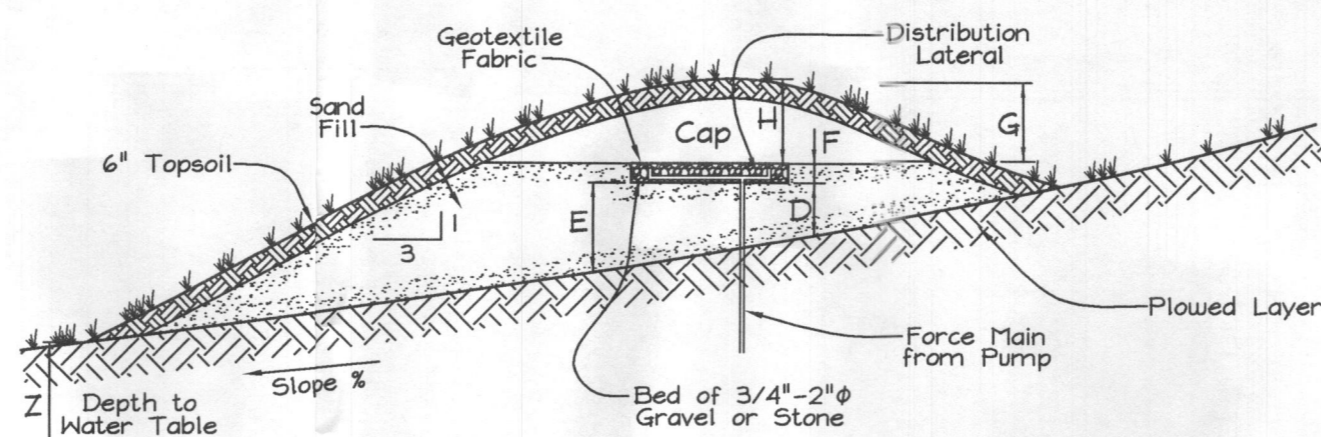
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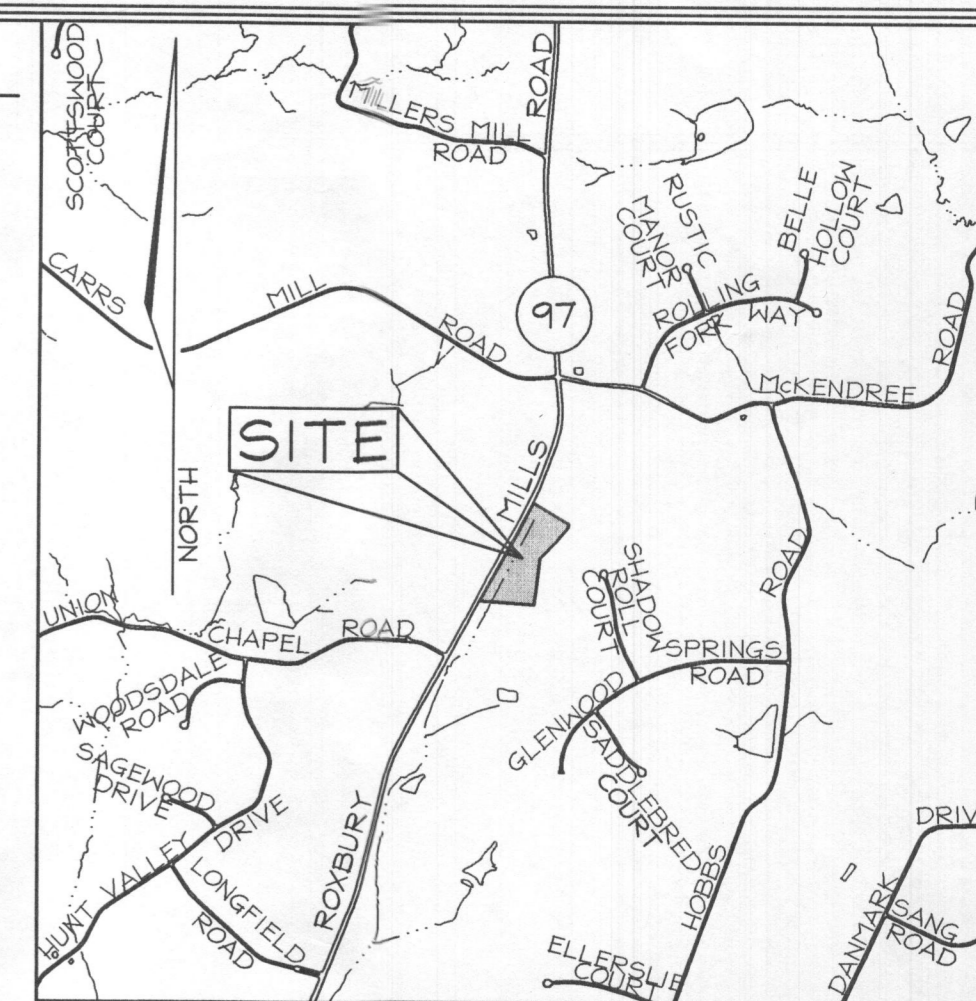


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PLACELLA PROPERTY
SE ROUTE 97 ROXBURY MILL ROAD
PART/PARCEL 1 OF 2

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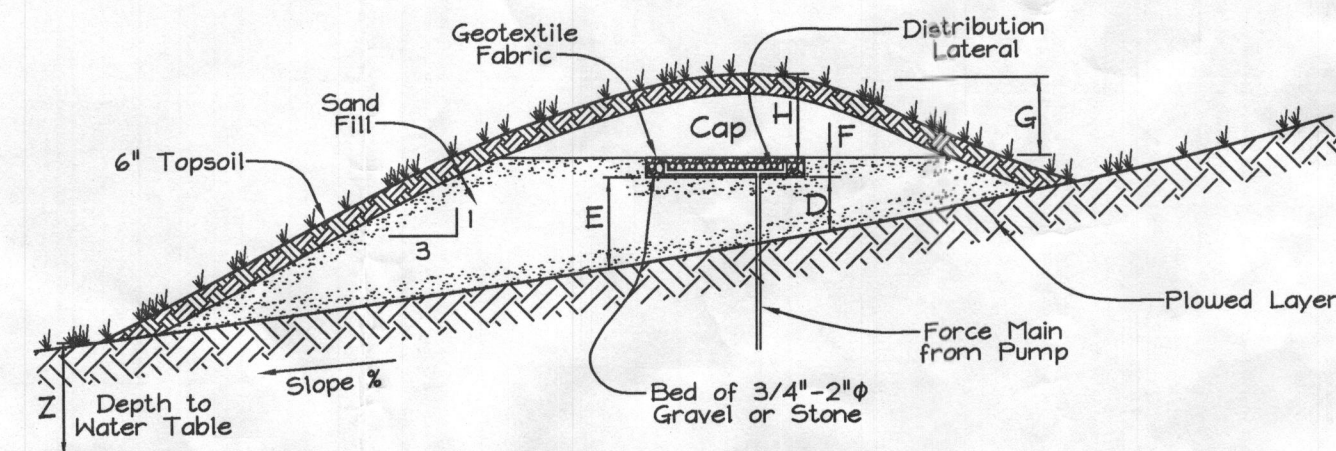
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DATE

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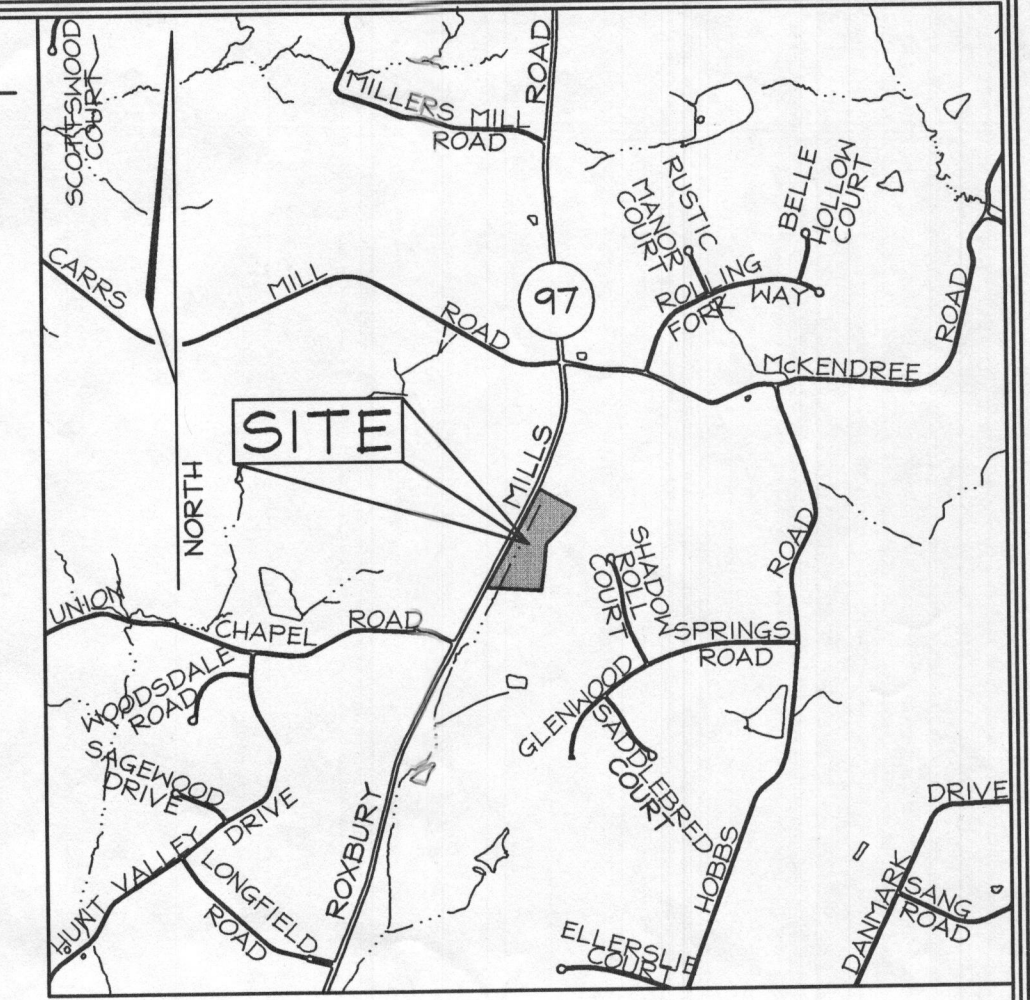


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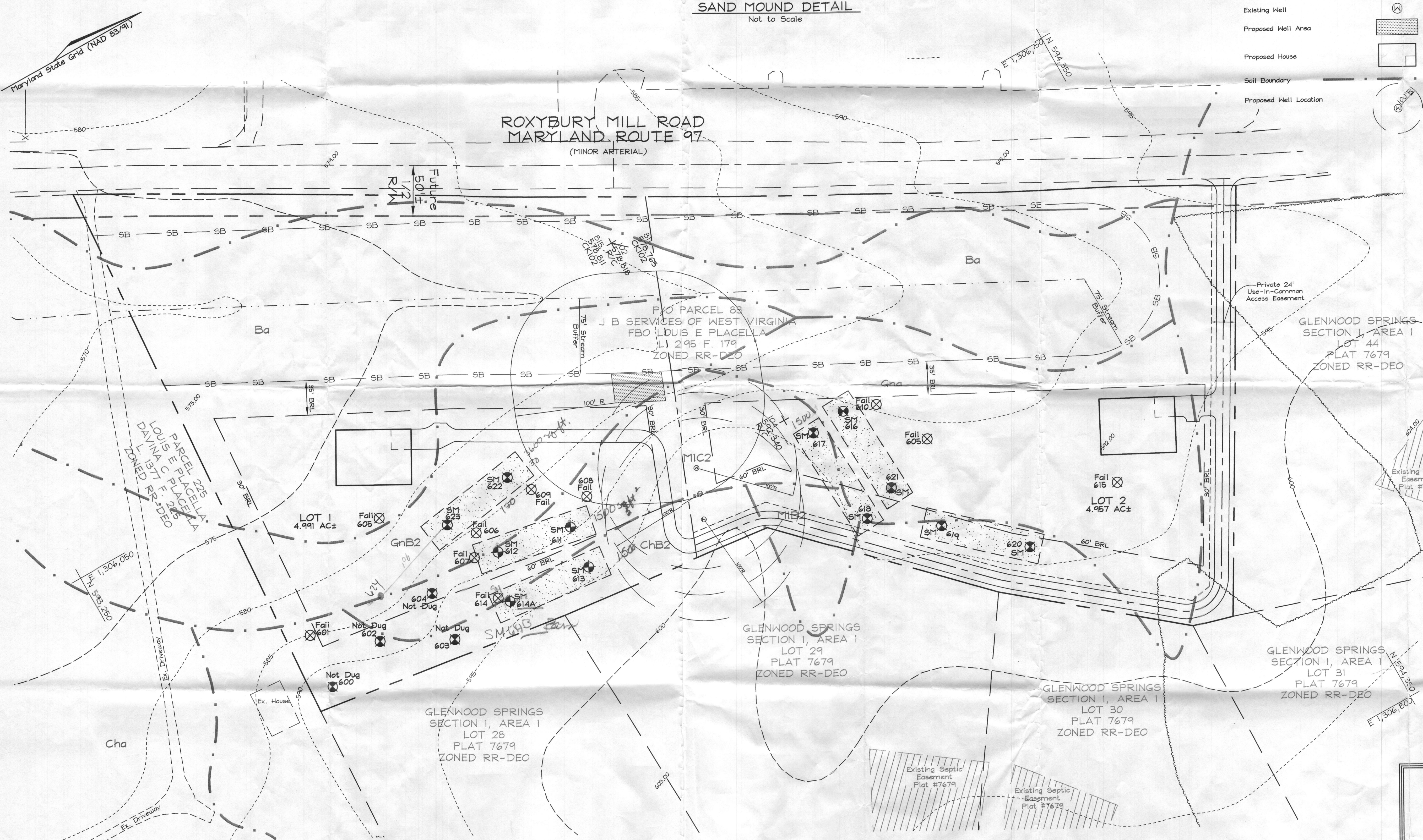
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- This area designates a private sewage easement, of at least 10,000 SF as required by the Maryland State Department of the Environment for individual sewage disposal (COMAR 26.04.03). Improvements of any nature in this area are restricted until public sewerage is available. These easements shall become null and void upon connection to a public sewerage system. The County Health Officer shall have the authority to grant adjustments to the private sewage easement. Recordation of a modified sewage easement shall not be necessary.
- All wells and septic fields within 100' of property's boundary have been shown.
- Existing septic field shown are of approximate location by the recorded plans.
- Howard County soil maps #7 & 13.
- Deed History:
 June 28, 1990 - Present: J & B Services Company of West Virginia, F/b/o Louis E. Placella
 June, 1988 - June, 1990: Signet Bank Maryland
 Aug., 1985 - June, 1988: Louis and Davina Placella
 Aug., 1985 - June, 1988: C. Webster Abbott, Personal Representative
 Nov., 1943 - Aug., 1985: Jesse and Mary Hakes
- The lots shown hereon comply with the minimum ownership, width and lot area as required by the Maryland Department of the Environment.
- All wells to be drilled prior to submittal of record plat for signature. It is the developer's responsibility to schedule the well drilling prior to final plat submission. It will not be considered 'government delay' if the well drilling holds up the Health Department signature of the record plat.
- Existing Topography based on Howard County Aerial Topography flown in 1993.
- References: Parcel 83 Liber 2195 Folio 179



"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."

ZACHARIA YOSEF FISCH, P.E. #22418 DATE
 FSH ASSOCIATES

PERCOLATION CERTIFICATION PLAN
PLACELLA PROPERTY
 SE ROUTE 97 ROXYBURY MILL ROAD

TAX MAP 14 GRID 17 4TH ELECTION DISTRICT PARCEL 83 HOWARD COUNTY, MARYLAND

OWNER/DEVELOPER
 J B SERVICES OF WEST VIRGINIA
 FBO LOUIS E PLACELLA
 12 W Church Street
 Frederick, Maryland 21701-5409

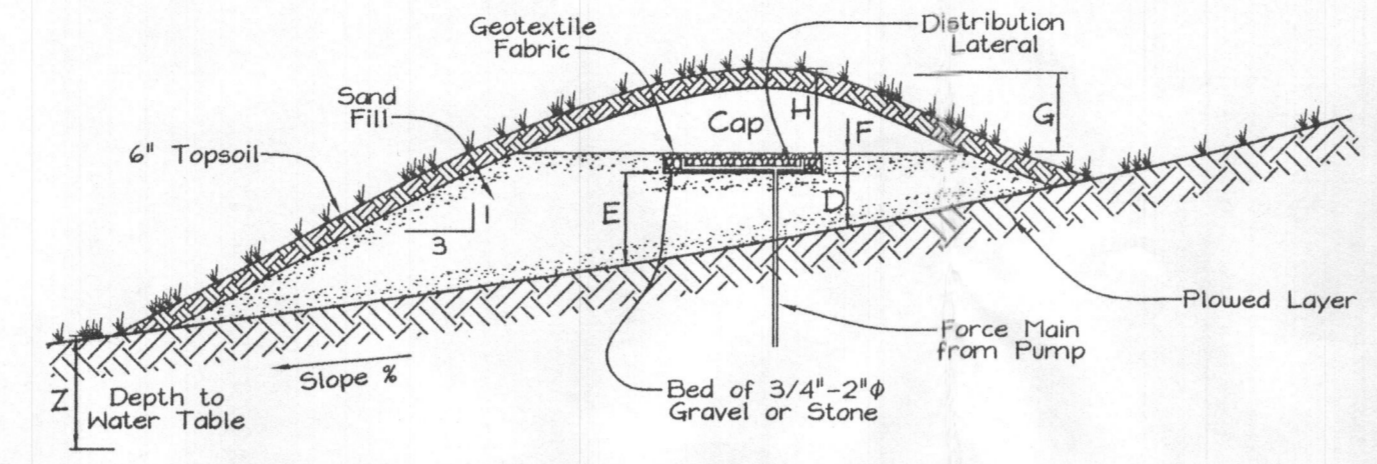
DESIGN BY: ZYF
 DRAWN BY: AY
 CHECKED BY: ZYF
 SCALE: 1" = 50'
 DATE: March 18, 2008
 W.O. No.: 3010
 SHEET No.: 1 OF 1

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT DATE

March 27 31

SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	SOIL GROUP
Ba	Baile silt loam	D
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
GnA	Glenville silt loam, 0 to 3 percent slopes	C
GnB2	Glenville silt loam, 3 to 8 percent slopes, moderately eroded	C
MIB2	Minor loam, 3 to 8 percent slopes, moderately eroded	B
MIC2	Minor loam, 8 to 15 percent slopes, moderately eroded	B

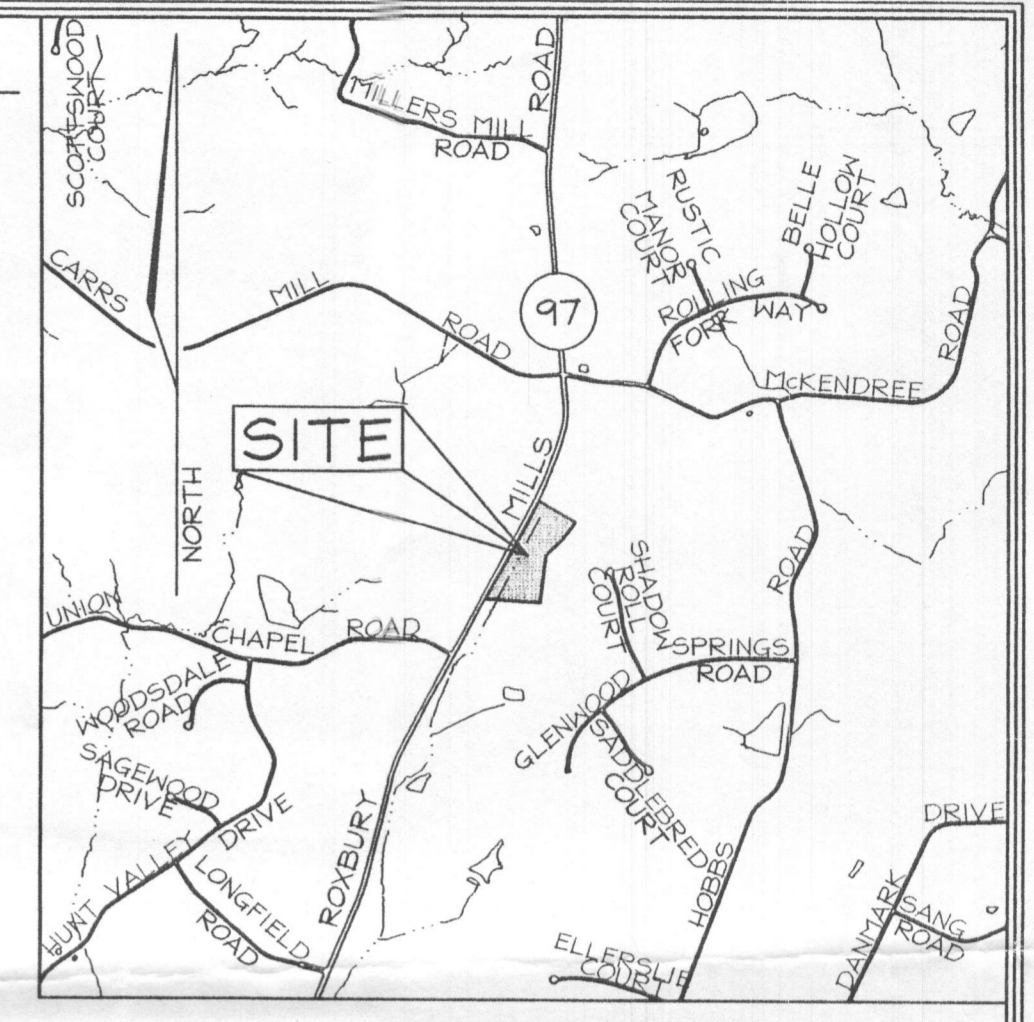


D = Upslope Sand Fill Depth(inches)
 E = Downslope Sand Fill Depth(inches)
 F = Bed Depth(inches)
 G = Cap and Topsoil Height at Bed Edges(inches)
 H = Cap and Topsoil Height at Bed Center(inches)
 Z = Depth to Water Table(inches)

SAND MOUND DETAIL
 Not to Scale

LEGEND

- Existing Contour
- Existing Spot Elevation
- Existing Trees to Remain
- Existing Septic Easement
- Proposed Sand Mound Easement
- Sand Mound Percolation Test
- Perc Test Passed
- Perc Test Failed
- Existing Well
- Proposed House
- Soil Boundary
- Proposed Well Location



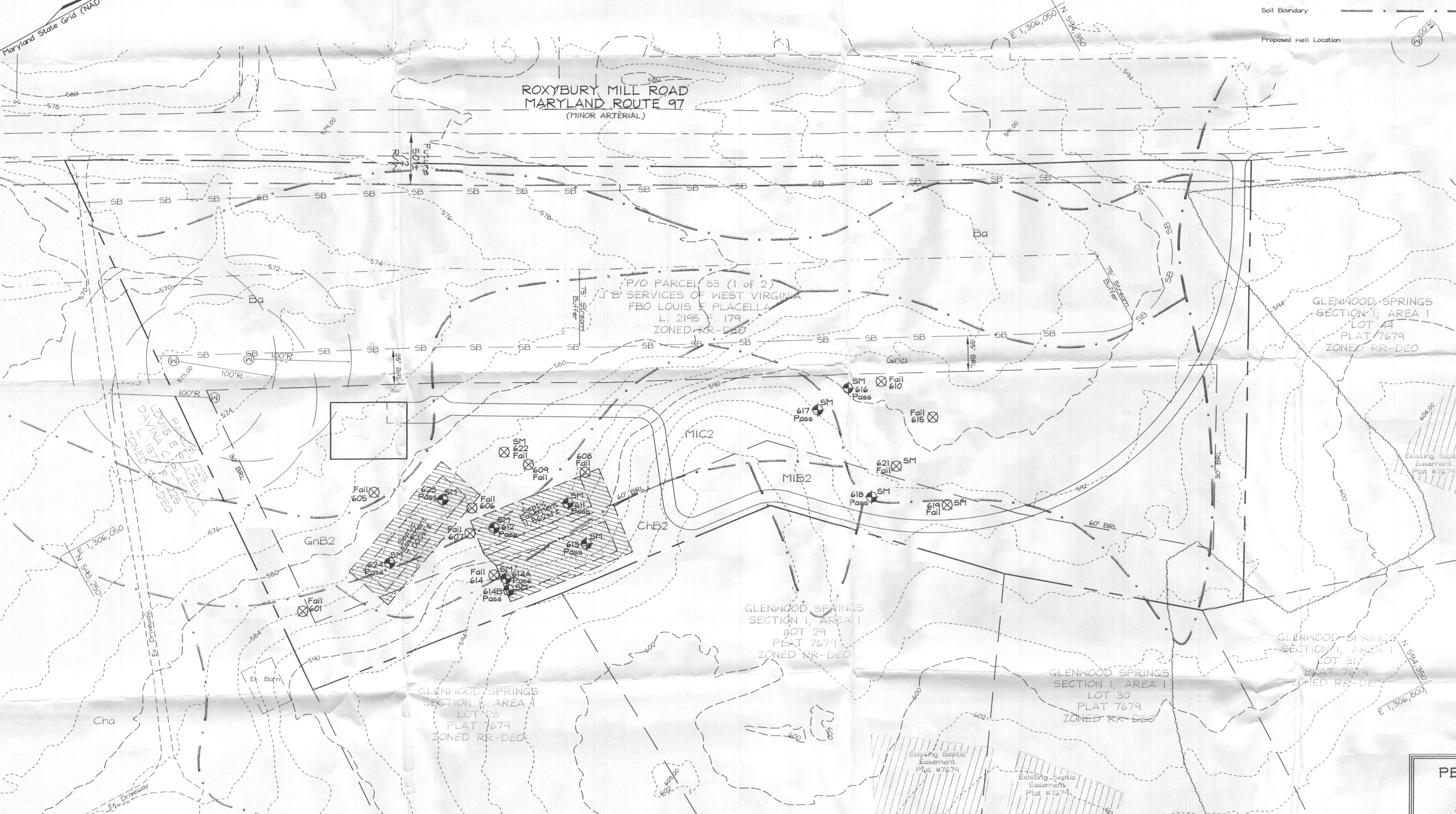
VICINITY MAP
 SCALE: 1" = 2000'

GENERAL NOTES

1. Subject property zoned RR-DEO per 02/02/04 Comprehensive Zoning Plan, and per the Comprehensive Lite Zoning Admendment effective 07/28/06.
2. Total area of property = 9.948 ac.±
3. Private water and private sewage will be used within this site.
4. This area designates a private sewage easement, of at least 10,000 SF as required by the Maryland State Department of the Environment for individual sewage disposal (COMAR 26.04.03). Improvements of any nature in this area are restricted until public sewerage is available. These easements shall become null and void upon connection to a public sewerage system. The County Health Officer shall have the authority to grant adjustments to the private sewage easement. Recordation of a modified sewage easement shall not be necessary.
5. All wells and septic fields within 100' of property's boundary have been shown.
6. Existing septic fields shown are of approximate location by the record plats.
7. Howard County soil maps #7 & 13.
8. Deed History:
 June 28, 1990 - Present: J & B Services Company of West Virginia, F/b/o Louis E. Placella
 June, 1988 - June, 1990: Signet Bank Maryland
 Aug., 1985 - June, 1988: Louis and Davina Placella
 Aug., 1985 - June, 1988: C. Webster Abbott, Personal Representative
 Nov., 1943 - Aug., 1985: Jesse and Mary Hakes
9. The lots shown hereon comply with the minimum ownership, width and lot area as required by the Maryland Department of the Environment.
10. All wells to be drilled prior to submittal of record plat for signature. It is the developer's responsibility to schedule the well drilling prior to final plat submission. It will not be considered 'government delay' if the well drilling holds up the Health Department signature of the record plat.
11. Existing topography based on Howard County GIS Aerial Topography 2006 and field verified test holes for location and elevation.
12. References: Parcel 83 Liber 2195 Folio 179, Part/Parcel 1 of 2
13. Any changes to a private Sewage Easement shall require a revised percolation certification plan.

PERC. CHART	
Number	Elevation
611	586.61
612	586.43
613	581.20
614A	582.42
614B	582.88
623	582.46
624	582.80

Maryland State Grid (NAD 83/91)



PROFESSIONAL CERTIFICATION
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. #22418, Expiration Date: 7/24/2004.

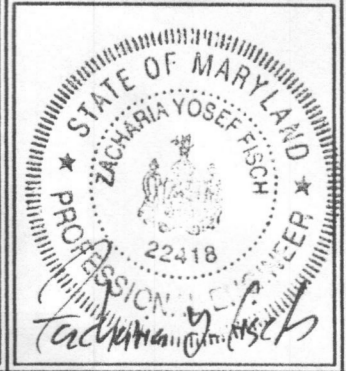
PERCOLATION CERTIFICATION PLAN
PLACELLA PROPERTY
 SE ROUTE 97 ROXBURY MILL ROAD
 PART/PARCEL 1 OF 2

TAX MAP 14 GRID 17 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND PARCEL 83

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT DATE

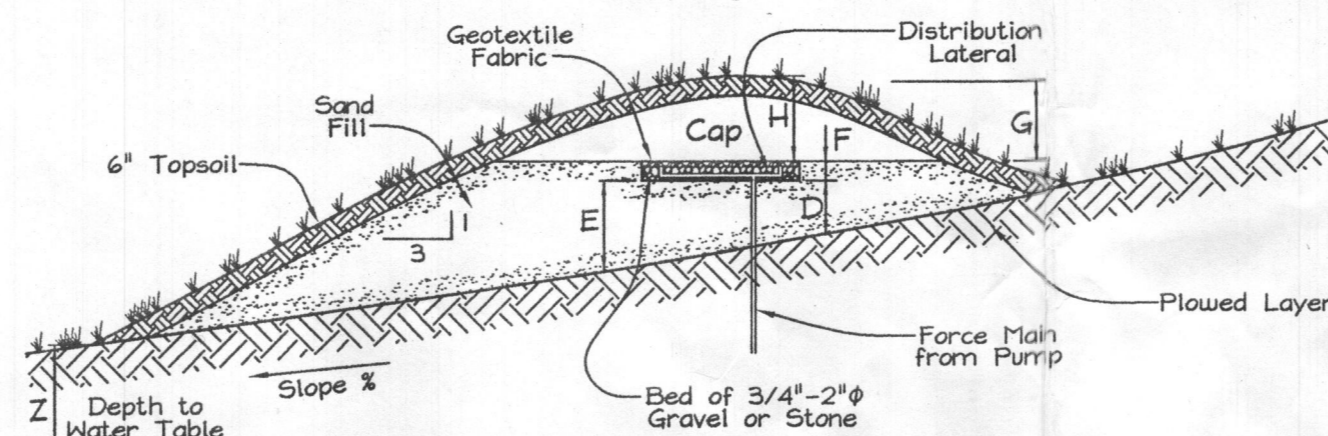
OWNER/DEVELOPER
 J & B SERVICES OF WEST VIRGINIA
 FBO LOUIS E. PLACELLA
 12 W Church Street
 Frederick, Maryland 21701-5409



FSH Associates
 Engineers Planners Surveyors
 6339 Howard Lane Elkridge, MD 21075
 Tel: 410-567-5200 Fax: 410-796-1562
 E-mail: info@fsh.net

DESIGN BY: ZYF
 DRAWN BY: AY
 CHECKED BY: ZYF
 SCALE: 1" = 50'
 DATE: Sept. 22, 2008
 W.O. No.: 3010
 SHEET No.: 1 OF 1

SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	SOIL GROUP
Ba	Baile silt loam	D
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
GnA	Glenville silt loam, 0 to 3 percent slopes	C
GnB2	Glenville silt loam, 3 to 8 percent slopes, moderately eroded	C
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MIC2	Minor loam, 8 to 15 percent slopes, moderately eroded	B

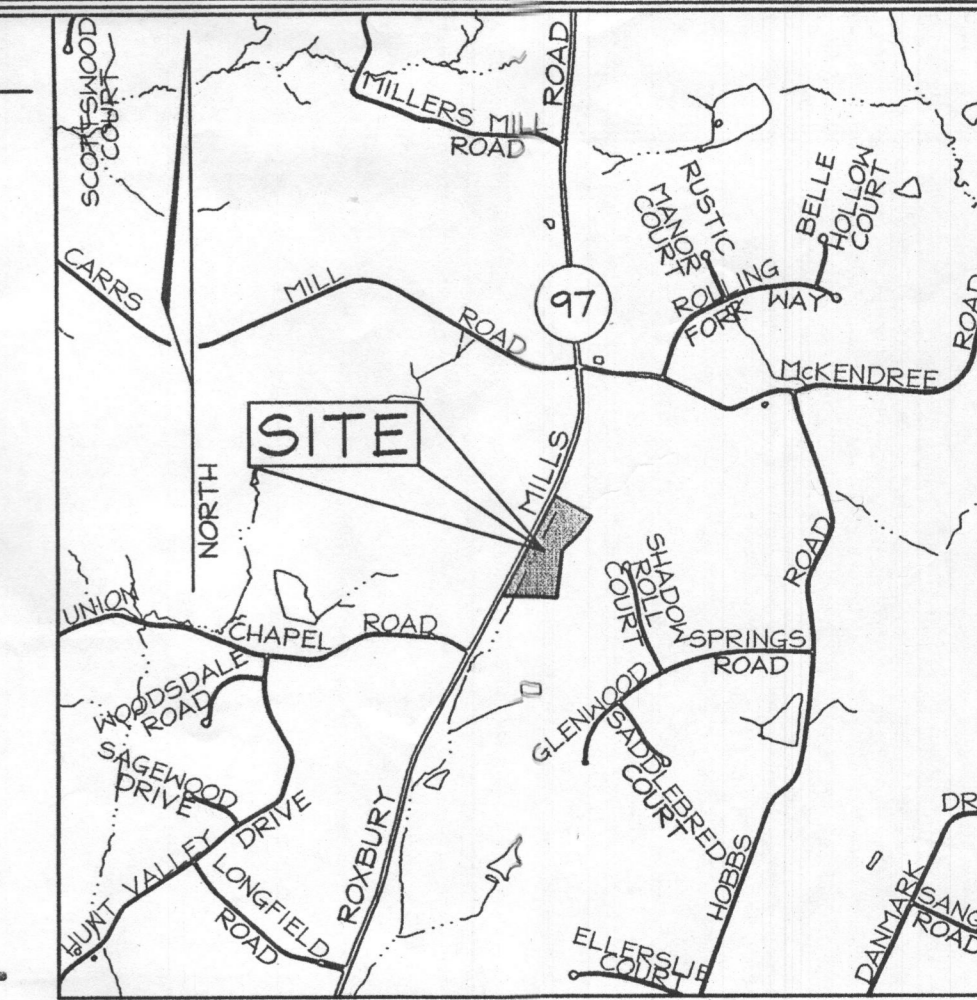


D = Upslope Sand Fill Depth (inches)
 E = Downslope Sand Fill Depth (inches)
 F = Bed Depth (inches)
 G = Cap and Topsoil Height at Bed Edges (inches)
 H = Cap and Topsoil Height at Bed Center (inches)
 Z = Depth to Water Table (inches)

SAND MOUND DETAIL
 Not to Scale

LEGEND

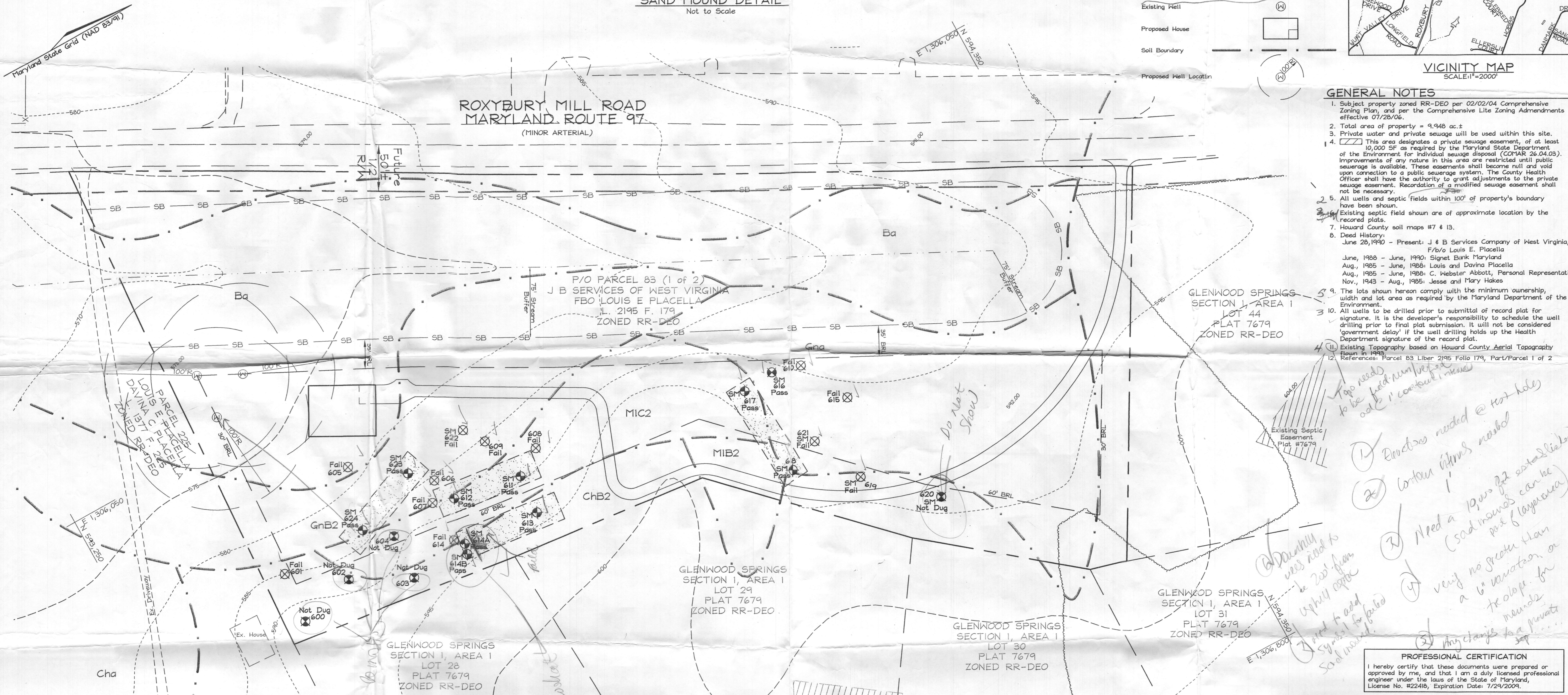
- Existing Contour
- Existing Spot Elevation
- Existing Trees to Remain
- Existing Light Pole
- Existing Septic Easement
- Proposed Sand Mountain Easement
- Existing Clean Out
- Proposed Perc Test
- Perc Test Passed
- Perc Test Failed
- Existing Well
- Proposed House
- Soil Boundary
- Proposed Well Location



VICINITY MAP
 SCALE: 1" = 200'

GENERAL NOTES

1. Subject property zoned RR-DEO per 02/02/04 Comprehensive Zoning Plan and per the Comprehensive Lite Zoning Amendments effective 07/28/06.
2. Total area of property = 9,948 ac.t.
3. Private water and private sewage will be used within this site.
4. This area designates a private sewage easement, of at least 10,000 SF as required by the Maryland State Department of the Environment for individual sewage disposal (COMAR 26.04.03). Improvements of any nature in this area are restricted until public sewerage is available. These easements shall become null and void upon connection to a public sewerage system. The County Health Officer shall have the authority to grant adjustments to the private sewage easement. Recordation of a modified sewage easement shall not be necessary.
5. All wells and septic fields within 100' of property's boundary have been shown.
6. Existing septic field shown are of approximate location by the recorded plats.
7. Howard County soil maps #7 & #3.
8. Deed History:
 June 28, 1990 - Present: J & B Services Company of West Virginia, F/b/o Louis E. Placella
 June, 1988 - June, 1990: Signet Bank Maryland
 Aug., 1985 - June, 1988: Louis and Davina Placella
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9. The lots shown hereon comply with the minimum ownership, width and lot area as required by the Maryland Department of the Environment.
10. All wells to be drilled prior to submittal of record plat for signature. It is the developer's responsibility to schedule the well drilling prior to final plat submission. It will not be considered 'government delay' if the well drilling holds up the Health Department signature of the record plat.
11. Existing Topography based on Howard County Aerial Topography flown in 1989.
12. References: Parcel 83 Liber 2195 Folio 179, Part/Parcel 1 of 2



Top needs to be field measured and combined notes

Directions needed @ 100' hole

Contours within needed

Need a 1000 sq ft sand mound (sand mound can be part of landscape)

Downstream well need to be 200' from uphill septic

Need to add symbol for failed perc test

very no greater than a 6" variation on the slope for mounds for private

any change to private

PROFESSIONAL CERTIFICATION
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. #22418, Expiration Date: 7/29/2009.

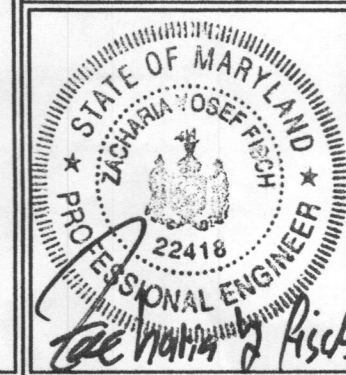
PERCOLATION CERTIFICATION PLAN
PLACELLA PROPERTY
 SE ROUTE 97 ROXYBURY MILL ROAD
 PART/PARCEL 1 OF 2

TAX MAP 14 GRID 17 PARCEL 83
 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

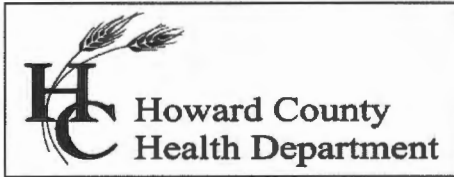
COUNTY HEALTH OFFICER _____ DATE _____
 HOWARD COUNTY HEALTH DEPARTMENT

OWNER/DEVELOPER
 J B SERVICES OF WEST VIRGINIA
 FBO LOUIS E PLACELLA
 12 W Church Street
 Frederick, Maryland 21701-5409



FSH Associates
 Engineers Planners Surveyors
 6338 Howard Lane Elkridge, MD 21075
 Tel: 410-567-5200 Fax: 410-796-1562
 E-mail: info@fshen.com

DESIGN BY: ZYF
 DRAWN BY: AY
 CHECKED BY: ZYF
 SCALE: 1" = 50'
 DATE: July 8, 2008
 P.O. No.: 5010
 SHEET No.: 1 OF 1



7178 Columbia 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

FAX

To: Zach Fisch, PE	From: Dana Bernard
Fax: (410) 796-1562	Pages: 2
Phone: (410) 567-5200	Date: 10/8/2008
Re: Placella Property, Job #3010	cc:

Comments:

If you have any questions or correspondence, I can be reached at the above address or by telephone at (410) 313-2775.

Thanks,

Dana Bernard, Sanitarian
Bureau of Environmental Health
Well and Septic Program
Phone (410) 313-2775
Fax (410) 313-2648
E-mail: DBernard@howardcountymd.gov



7178 Columbia Gateway Drive, Columbia MD 21046
Phone (410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
Website: www.hchealth.org

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

MEMORANDUM

TO: Zach Fisch, P.E.
FSH Associates

FROM: Dana Bernard
Well and Septic Program
Development Coordination Section

RE: File Number: Job # 3010
Title: Placella Property Perc Certification Plan

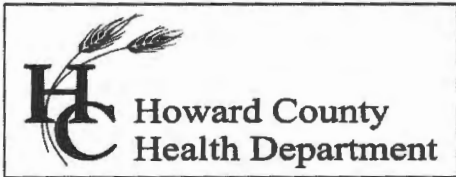
DATE: October 8, 2008

The following comments apply to the plan prepared by FSH Associates.
Applicant is advised to revise and resubmit prior to signature.

- Elevations of test holes should be shown.
- A site visit to verify the location of test hole 614A and 614B occurred on October 6, 2008. Test hole SM-614A has been determined to be a failed hole. Which will confirm that the area containing 614A and 614B not suitable for a sand mound. This area must be removed and 617 and 618 can be used as a reserved area.

The general notes must also be revised:

- Note: # 5. All wells downhill from an uphill sand mound septic field, with a 200 foot setback have been shown.
- Note: # 11. Topography was field run/verified by a licensed surveyor or engineer at (1) one foot contour intervals.



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Columbia, MD 21046
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TDD (410) 313-2323
Toll Free 1-866-313-6300

Website: www.hchealth.org

FAX

To: Zach Fisch, PE	From: Dana Bernard
Fax: (410) 796-1562	Pages: 2
Phone: (410) 567-5200	Date: 9/29/2008
Re: Placella Property , Job # 3010	cc:

Comments:

I have attached a list of comments pertaining to the plan submitted. These items must be corrected on plan for review. If you have any questions or correspondence, I can be reached at the above address or by telephone at (410) 313-2775.

Thanks,

Dana Bernard, Sanitarian
Bureau of Environmental Health
Well and Septic Program
Phone (410) 313-2775
Fax (410) 313-2648
E-mail: [DBernard@ howardcountymd.gov](mailto:DBernard@howardcountymd.gov)



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TDD (410) 313-2323 Toll Free 1-866-313-6300
Website: www.hchealth.org

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

MEMORANDUM

TO: Zach Fisch, P.E.
FSH Associates

FROM: Dana Bernard
Well and Septic Program
Development Coordination Section

RE: File Number: Job # 3010
Title: Placella Property Perc Certification Plan

DATE: September 29, 2008

The following comments apply to the plan prepared by FSH Associates.
Applicant is advised to revise and resubmit prior to signature.

- Elevations of test holes should be shown.
- At this time a site visit will be necessary to verify the location of test hole 614A and 614B. The visit will be conducted by the health department and the information will be passed on to the engineer to complete the perc certification plan.
- Topography must be field run/ verified by a licensed surveyor or engineer at (1) one foot contour intervals.

The general notes must also be revised:

- Note: # 5. All wells downhill from an uphill sand mound septic field, with a 200 foot setback have been shown.
- Note: # 11. Topography was field run/verified by a licensed surveyor or engineer at (1) one foot contour intervals.