



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____ A/P 525069
 AGENCY REVIEW: _____ DATE 12/4/06

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 _____ 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) RANDY ROBINETTE LORI ROBINETTE

DAYTIME PHONE 410 442 1694 CELL 443 864 7790 FAX _____

MAILING ADDRESS 1205 MARRIOTTSVILLE RD MARRIOTTSVILLE MD 21104
STREET CITY/TOWN STATE ZIP

APPLICANT RANDY ROBINETTE

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS SAA _____
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME 1205 MARRIOTTSVILLE RD LOT NO. _____

PROPERTY ADDRESS 1205 MARRIOTTSVILLE RD MARRIOTTSVILLE
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) _____ GRID _____ PARCEL(S) _____ PROPOSED LOT SIZE _____

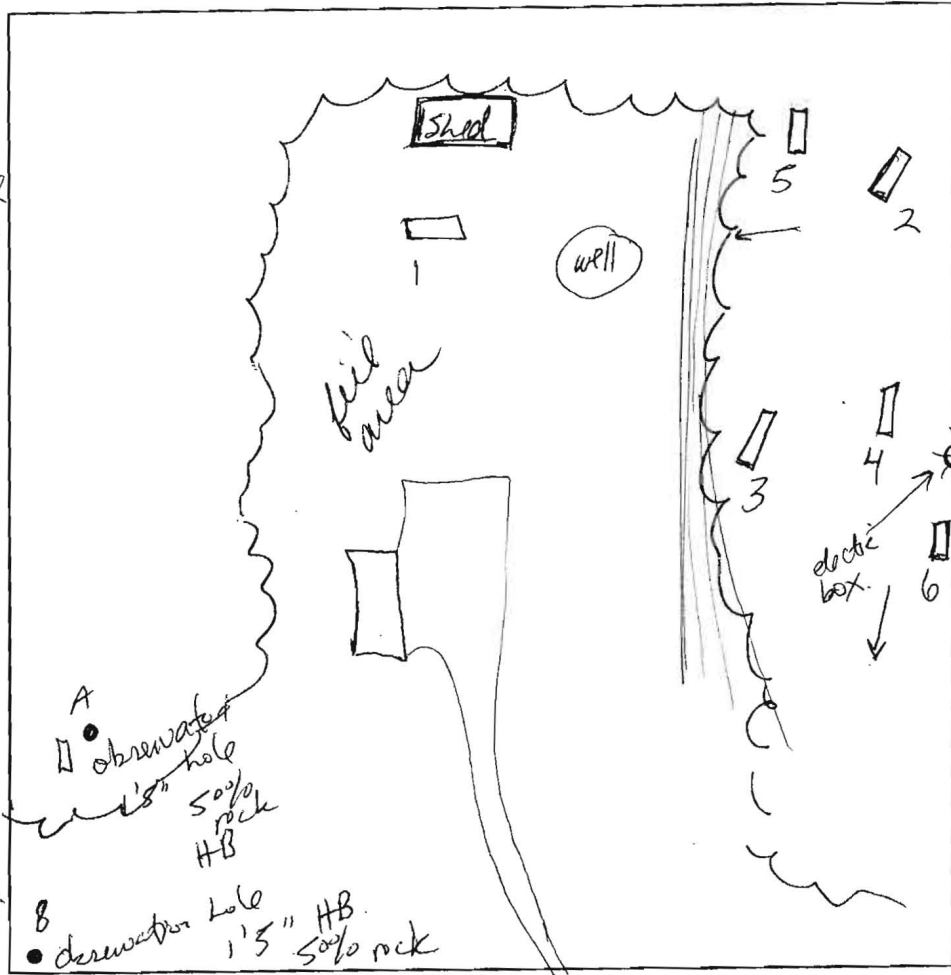
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT. [Signature]
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
 3525-H ELLICOTT MILLS DRIVE, ELLICOTT CITY, MARYLAND 21043-4544 (410) 313-1771 FAX (410) 313-2648
 TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

AP 3

2' brown
silt
fine disoriented
rock.
irregular
boundary.
50% shale
clayey
flossy.
loam?
3' HB.



3
brown
brown
silt
fine disoriented
quartz rocks
veg stony.
2' loam
50% shale
clayey
flossy

1
brown
loam
mitwe
fine?
20% channery.
5' red yellow
silt
55" brown
s.s. platy
rock channery
75% weathered
granite shale

4
brown
surface feel
brown
silt 2 6 5 bk
2' downed yellow
sandstone
brown
2.5' m f s.s. s.g.
weak very coarse
micaceous pl
3' dense
v coarse pl
s.s.
4' very weathered
schist
5' yellow brown
s.s. squall
90% channery
6' yellow brown
coarse s.s.
quartz cobbles
15 3/4' (6) brown
silt
red yellow
s.s.
3' weathered
coarse
rock
50%
5' HB

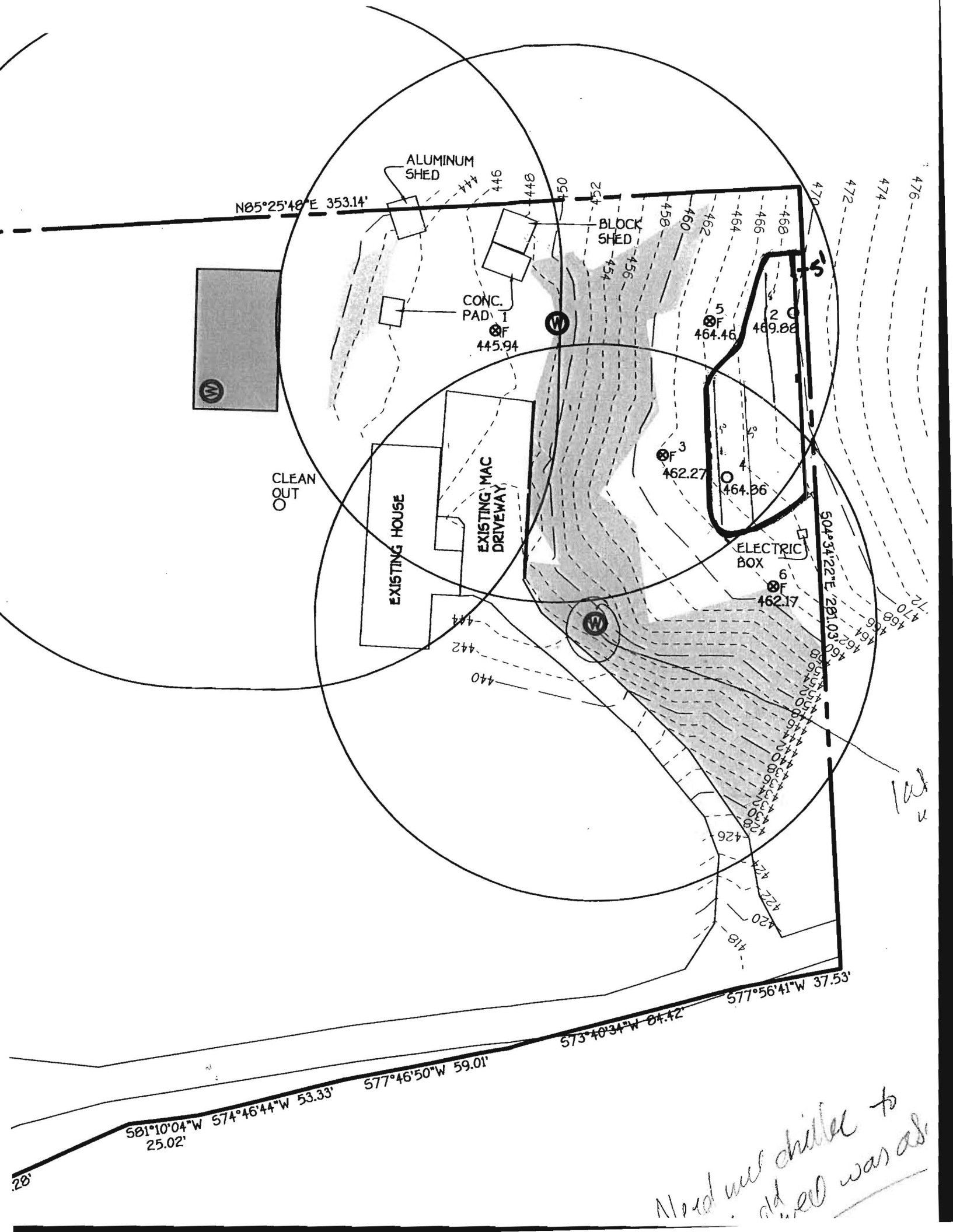
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
1/18/07	1	8'					F
	2	6' / 13'	10:13	10:16	10:19	3	P
	3	8'					F
	4	6'5" / 15'3"	11:11	11:13	11:15	2	P
	5	3'					F
	6	5'					F

2
dark brown
OM
1" brown
silt 2m 5bk
2' irregular
boundary.
f.s.s. m
boundary
compact
2.5' yellow brown
red brown
s.s.
5.5' squalite
platy 35% clayey
multi-colored.
9.5' s.s. squalite

REMARKS #2 EA 5'
SANITARIAN SF/RB BACKHOE Freedom Septic OTHERS
TEST HOLES USED IN SDA _____ AVG. PERC TIME 2.5 SQ. FT/BR
TRENCH WIDTH _____ INLET DEPTH 6' MAX. BOT DEPTH 8 EFFECTIVE SW

12'5" 45% channery
13' HB refusal

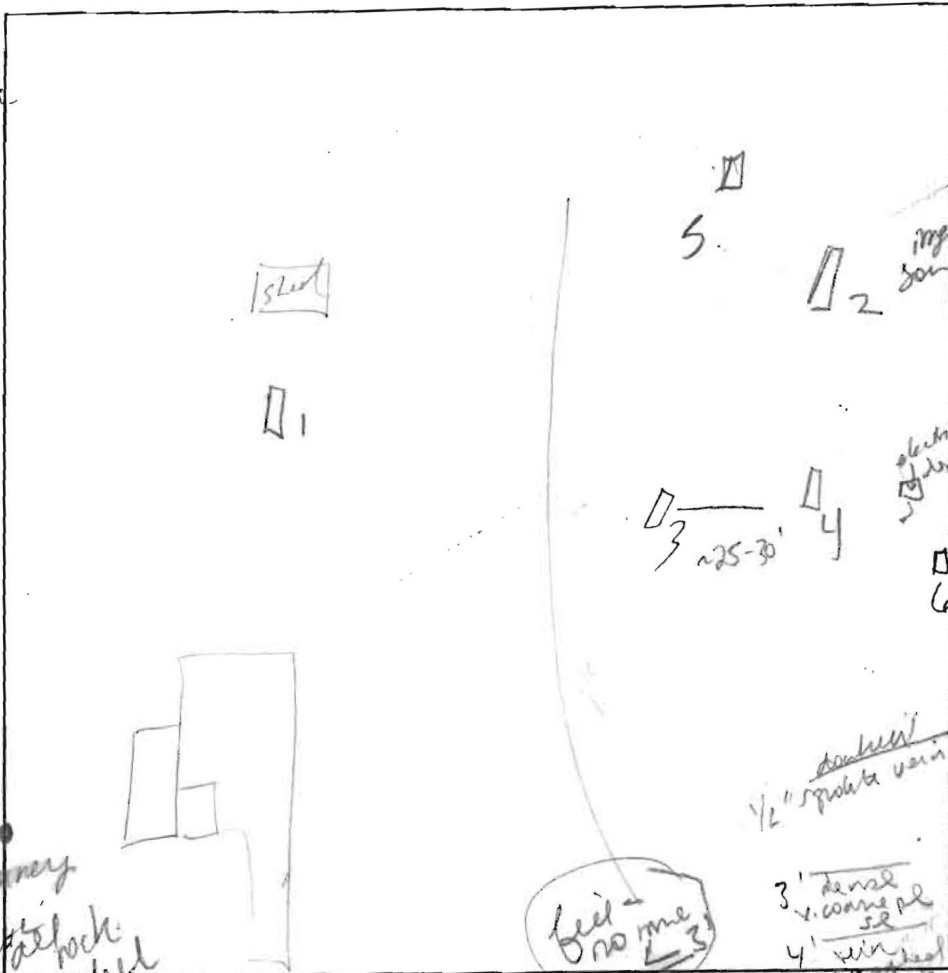
$$\frac{3 \times 150}{1.2} = \frac{375}{2} = 188 \times (0.57) = 107$$



Need well drilled to
 depth was as

AP 678-5999
 as other or other

3/5
 brown
 fine, color, clay
 very sticky
 40% rock shale
 clayey
 flaky
 loam?
 HB



1
 brown
 loam
 mit
 20% ←
 clayey
 75% weak rock
 1/2" silt
 dark rock
 clayey
 75% weak rock

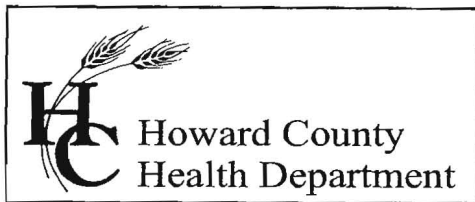
2
 dark brown
 on
 brown
 silt - 1ms blk
 2' irregular
 sandy
 2' 5" coarse
 4' silt
 red brown
 2' 5" silt
 45% clayey
 13' HB

4 Banatocay
 brown
 silt
 2' 5" blk
 4b
 4' 5" silt
 weak var. coarse
 micaceous pl.
 4b
 5' 40% clayey
 4b
 coarse
 5' 2' clayey
 part of
 1/2" silt
 1/2" silt

3
 brown
 silt
 coarse
 3' 35" irregular
 rnk
 quartz
 HB

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
	1	8'					
	2	6' / 13'	10:13	10:16	10:19	3	P
	3	8'					
	4	6' 5" / 15'	11:11	11:13	11:15	2	P
	5	3'					
	6	5'					

REMARKS - well up lane #2 FAS'
 SANITARIAN BACKHOE OTHERS
 TEST HOLES USED IN SDA AVG. PERC TIME SQ. FT/BR
 TRENCH WIDTH INLET DEPTH MAX. BOT DEPTH EFFECTIVE SW
 2' 5" silt
 45% clayey
 13' HB
 layers of
 disintd rnk
 (fill) mix of textures
 color 5



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

Penny E. Borenstein, M.D., M.P.H., Health Officer

January 25, 2007

Randy and Lori Robinette
1205 Marriottsville Road
Marriottsville, MD 21104

RE: PERCOLATION TEST RESULTS – A#525669
1205 Marriottsville
B06006422

Dear Mr. and Mrs. Robinette:

Percolation testing conducted January 18, 2007 on the referenced property indicated both satisfactory and unsatisfactory soil conditions. Limiting factors influencing soil conditions included rock refusal and >50% rock at shallow depths and an unnatural layering of soil textures and disoriented rock, which indicate fill material. Copies of the test results are enclosed. Building permit B06006422 is on hold until the percolation certification plan has been reviewed and approved.

Further review is contingent upon submission of a percolation certification plan showing the following:

- 1) Actual surveyed locations and elevations of all excavated test holes
- 2) House site (55' x 70') or footprint, including building restriction lines as determined by other County agencies, and driveway location
- 3) Existing property lines
- 4) Location of existing septic system and proposed well site, a 1500 square foot well box or three well sites 50' apart.
- 5) Proposed SDA
- 6) A note must be included certifying that all existing wells and septic systems within 100 feet of property boundaries have been shown
- 7) A note stating the engineer used all reasonable efforts to find the location of all surrounding wells and septic systems
- 8) Topography needs to be shown at 2 foot contour intervals and a note certifying topography was field run and verified and reflects field-matched information
- 9) A MDE sewage disposal area statement "This area designates a private sewage disposal area as required by the Maryland Department of the Environment for individual sewage disposal. Improvements of any nature in this area 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."
- 10) MDE minimum lot width statement
- 11) Include the statement, "Any changes to a private sewage easement shall require a revised perc certification plan"
- 12) Identification of streams, ponds, wetlands, floodplains, slopes >25%, soil types and soil type boundaries
- 13) Legend symbols to distinguish between new holes, any existing holes previously documented (by the HCHD), passed holes, failed holes, and any holes held for future review

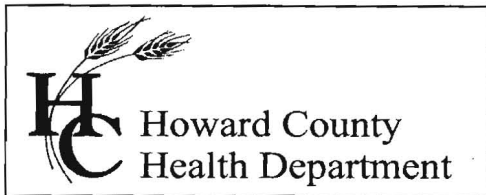
- 14) Existing structures, wells, septic easements and other septic system components such as tanks, dry wells and distribution boxes. Description of use and intent designated for each item, e.g. 'to remain' or 'remove.'
- 15) A Health Officer's signature block stating "approved for private water and private sewer systems"
- 16) Include the electric box location
- 17) Professional seal or signed statement that "I certify that the information shown heron is based on field work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief."
- 18) Identification of the property, road, street address if applicable, tax map page, parcel number, subdivision name (if appropriate); add purpose statement as appropriate, e.g. subdivision, SDA adjustment, percolation certification plan etc
- 19) Name, address and telephone number of each owner, developer and the plan author.
- 20) The date the plan was drawn, the plan scale (1:30 - 1:100), a scaled vicinity map and, the A # (percolation test fee receipt number, referenced in the HCHD correspondence)

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

Sincerely,

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

Enclosures



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

MEMORANDUM

TO: Tony
FCC

FROM: Sara Fegel *SF*
Well and Septic Program
Development Coordination Section

RE: File Number: PC525669
1205 Marriottsville

DATE: April 9, 2007

The following comments for the referenced percolation certification plan need to be addressed prior to plan approval:

- In general note #1 adjust statement to include the square footage of the SDA and the phrase "to accommodate two repair systems for a maximum of a three bedroom home."
- Remove note #6
- Add note: "At time of septic repair, existing well must be abandoned and replacement well drilled"
- Remove note #9
- Adjust well box to be 200' from SDA
- Show Howard County topography on remaining property
- Add note: Old well to be abandoned prior to building permit approval, unless well is certified by a licensed well driller of having been previously abandoned
- Label the well by the driveway as "old well"
- Show SDA as shown on plan

Read 4/9/07

SITE INSPECTION SHEET

OWNER: _____ PHONE #: _____

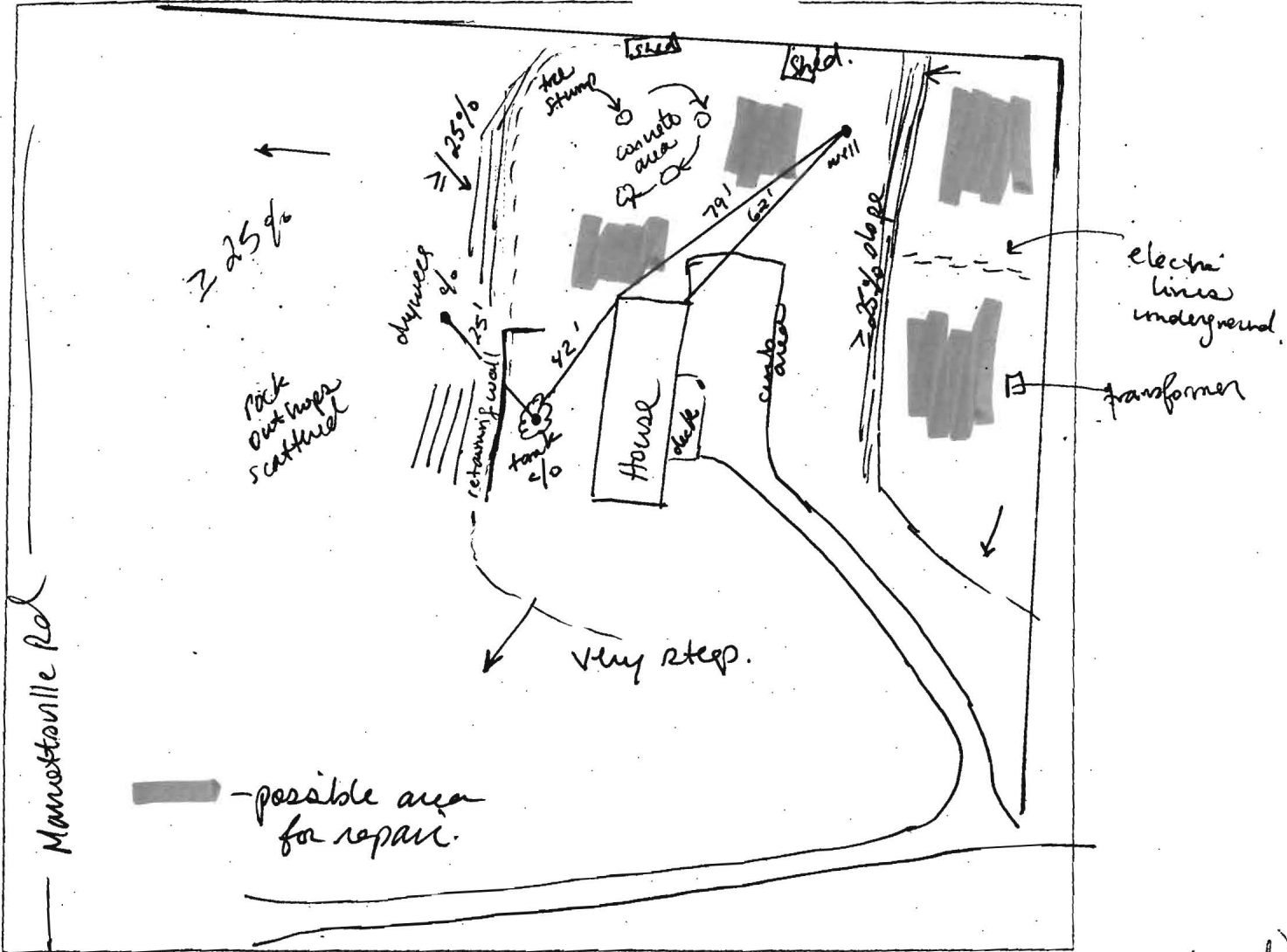
ADDRESS: 1205 Mamottsville Rd CONTRACTOR: _____

WELL TAG #: _____

SUBDIVISION: _____ LOT: _____ COUNTY #: _____

PROPOSAL: _____

LOCATION DIAGRAM



COMMENTS: House ~30 yrs. old, built on an old stone quarry (quarry not enough for ~50 yrs ago).
limited site, need perc test to confirm area for septic
resence. Only flat area is next to house & over towards sheds.
Potential area on top of slope near transformer etc. (SP) 12/11/06

-76°54'17"



39°20'18"



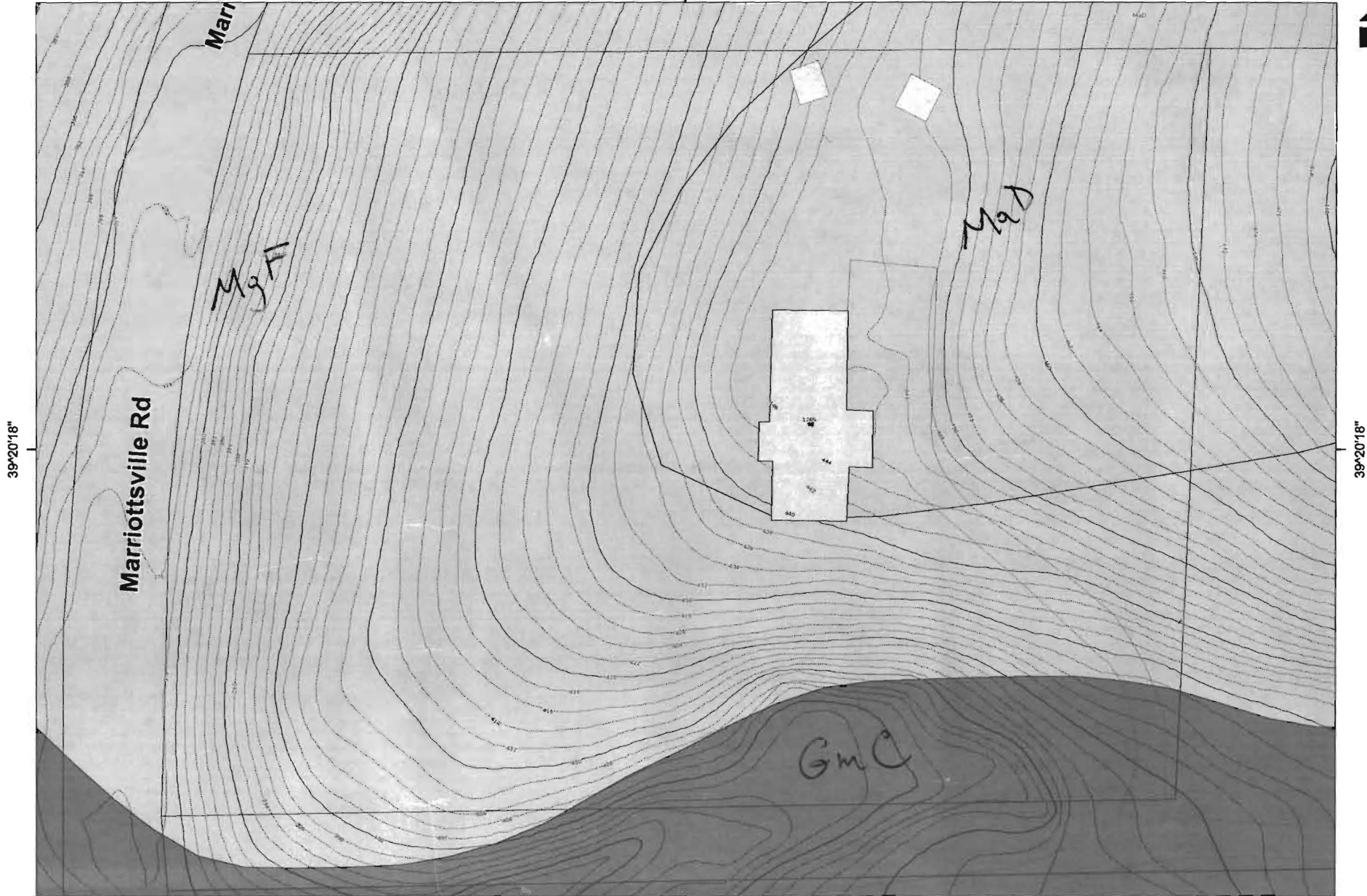
39°20'18"

Disclaimer: Howard County, Maryland assumes no responsibility for the accuracy of this report or the information contained herein or derived therefrom. The user assumes all risks and liabilities whatsoever resulting from or arising out of the use of this information. There are no oral agreements or warranties relating to the use of this report.

-76°54'17"



-76°54'17"



39°20'18"

39°20'18"

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-76°54'17"

Howard County

LOCATION MANOR

MD+DE NC PA VA

Established Series
Rev. WDC
03/1999

MANOR SERIES

The Manor series consists of very deep, well drained to somewhat excessively drained, moderately permeable soils on uplands. They formed in materials weathered from micaceous schist. Slopes range from 0 to 65 percent. Mean annual temperature is 54 degrees F., and mean annual precipitation is 40 inches.

TAXONOMIC CLASS: Coarse-loamy, micaceous, mesic Typic Dystrudepts

TYPICAL PEDON: Manor loam - wooded. (Colors are for moist soil unless otherwise stated.)

A--0 to 1 inch, dark grayish brown (10YR 4/2) loam; weak fine granular structure; loose; many roots; common fine mica flakes; strongly acid; smooth boundary. (1 to 2 inches thick).

E--1 to 10 inches, dark yellowish brown (10YR 4/4) loam; weak medium granular structure; soft, very friable, slightly sticky; many roots; many fine mica flakes; strongly acid; clear smooth boundary. (7 to 10 inches thick)

Bw--10 to 20 inches, yellowish red (5YR 4/6) loam; weak medium sub- angular blocky structure; slightly hard, friable, slightly sticky; common roots; many fine mica flakes; strongly acid; clear wavy boundary (7 to 12 inches thick).

C--20 to 120 inches, variegated brown (10YR 5/3), yellowish red (5YR 4/8), and yellow (10YR 7/6) loam; massive; friable; few roots in upper portion, very few below 60 inches; highly micaceous; very strongly acid.

TYPE LOCATION: Prince Georges County, Maryland; about two miles north- west of Laurel.

RANGE IN CHARACTERISTICS: The thickness of the solum ranges from 15 to 35 inches. Depth to bedrock is 6 to 10 or more feet. Rock fragments range from 0 to 30 percent throughout the solum and C horizon. Cobbles range from 0 to 5 percent. Fragments are mostly hard quartzite or flat schist. Stones occupy .01 to 3 percent of the surface in some pedons. Unlimed reaction ranges from moderately acid to extremely acid throughout.

The A horizon has hue of 10YR to 5YR, value of 3 to 5, and chroma of 2 to 4. It is loam or silt loam in the fine earth fraction.

The E horizon has hue of 10YR to 5YR, value of 4 to 6, and chroma of 2 to 6. Fine earth texture is loam or silt loam.

The Bw horizon has hue of 2.5YR to 7.5YR, value of 4 or 5, and chroma of 4 to 8. It is silt loam or loam in the fine earth fraction.

The C horizon has hue of 10R to 10YR, value of 4 to 8, chroma of 2 to 8 and commonly is variegated as a result of relict rock structure. It is loam or sandy loam in the fine earth fraction.

COMPETING SERIES: The Chandler series is the only other series in the same family. The Chandler soils have 10YR or yellower hues in the B horizon.

Amostown, Ashe, Bernardston, Broadbrook, Brookfield, Cardigan, Chadakoin, Charlton, Chatfield, Cheshire, Chestnut, Ditney, Dutchess, Edneyville, Fedscreek, Hazel, Lordstown, Maplecrest, Marrowbone, Maymead, Montauk, Nantucket, Newport, Paxton, Pollux, Riverhead, Satsop, Scituate, St. Albans, Steinsburg, Sweetapple, Valois, Wethersfield, and Yalesville soils are similar soils in related families. All of these soils except the Sweetapple series have mixed mineralogy. Sweetapple soils have a thermic temperature regime.

GEOGRAPHIC SETTING: Manor soils are nearly level to very steep soils on strongly dissected uplands in the northern Piedmont Plateau, with slopes ranging from 0 to 65 percent. The soils formed in residuum from highly micaceous schist. The climate is temperate and humid with a mean annual temperature of 48 to 58 degrees F. and mean annual precipitation of 35 to 50 inches. Frost-free days range from 150 to 220.

GEOGRAPHICALLY ASSOCIATED SOILS: These are the Brandywine, Chester, Codorus, Comus, Elioak, Glenelg, Glenville, Hatboro, Hollinger, Linganore, and Mt. Airy soils. Brandywine soils have sandy-skeletal particle-size control sections. Chester, Elioak, Glenelg, Hollinger, Linganore and Mt. Airy soils have argillic horizons. Codorus, Comus, and Hatboro soils are on nearby floodplains. Glenville soils have a fragipan. The Mt. Airy soils are less than 40 inches to bedrock and have more than 35 percent rock fragments in the particle-size control section.

DRAINAGE AND PERMEABILITY: Well drained to somewhat excessively drained. Permeability is moderate in the solum and moderate to moderately rapid in the C horizon. Runoff is medium to rapid.

USE AND VEGETATION: Most of the nearly level to strongly sloping slopes are used for farming or are in nonfarm uses. Principal crops are corn, soybeans, small grain, and hay. The steeper slopes are in pasture and forest. Native vegetation is black oak, chestnut oak, red oak, white oak, hickory, yellow poplar, and red maple. Cutover and second-growth areas have some shortleaf pine and Virginia pine.

DISTRIBUTION AND EXTENT: Maryland, Delaware, Pennsylvania, the District of Columbia, Virginia, and North Carolina. The series is of large extent and commonly dominates the landscape.

MLRA OFFICE RESPONSIBLE: Morgantown, West Virginia

SERIES ESTABLISHED: Lancaster County, Pennsylvania, 1900.

REMARKS: Diagnostic horizons and features recognized in this pedon are:

- a. Ochric epipedon--the zone from the surface of the soil to a depth of approximately 10 inches (A and E horizons)
- b. Cambic horizon--the zone from approximately 10 to 20 inches (Bw horizon)
- c. Typic ochrepts feature--yellowish red color and subangular blocky structure in the 10 to 20 inch zone.

National Cooperative Soil Survey

LOCATION BANNERTOWN

NC+VA

Established Series
RJL-DCC/Rev. JAK
09/2003

BANNERTOWN SERIES

MLRA(s): 136 (mesic part)
Depth Class (Agricultural): Moderately deep to bedrock
Drainage Class: Somewhat excessively drained
Internal Free Water Occurrence: Very deep
Flooding Frequency and Duration: None
Ponding Frequency and Duration: None
Index Surface Runoff: Low to medium
Permeability: Moderately rapid
Shrink-Swell Potential: Low
Landscape: Piedmont upland
Landform: Low hill
Geomorphic Component: Interfluve, head slope, side slope nose slope
Hillslope Profile Position: Summit, shoulder, backslope
Parent Material: Residuum from felsic metamorphic or igneous rock
Slope: 2 to 95 percent
Elevation (type location): 1060 feet
Frost Free Period (type location): 174 days
Mean Annual Air Temperature (type location): 57 degrees F.
Mean Annual Precipitation (type location): 46 inches

TAXONOMIC CLASS: Coarse-loamy, mixed, semiactive, mesic Typic Dystrudepts

TYPICAL PEDON: Bannertown gravelly coarse sandy loam (in an area of Rhodhiss-Bannertown-Rock outcrop complex, 25 to 60 percent slopes), on a 35 percent slope, in an area of woodland. (Colors are for moist soil unless otherwise indicated.)

A--0 to 4 inches; dark brown (10YR 3/3) gravelly coarse sandy loam; weak fine granular structure; very friable; many fine and common medium and coarse roots; few fine flakes of mica; 20 percent fine quartz gravel; very strongly acid; clear wavy boundary. (2 to 10 inches thick)

BA--4 to 8 inches; brown (10YR 4/3) gravelly coarse sandy loam; weak fine subangular blocky structure; very friable; many fine and common medium and coarse roots; common fine pores; common fine flakes of mica; few fine grains of feldspar; 20 percent fine quartz gravel; strongly acid; gradual wavy boundary. (0 to 10 inches)

Bw1--8 to 14 inches; yellowish brown (10YR 5/4) gravelly coarse sandy loam; weak medium subangular blocky structure; very friable; common fine, medium, and coarse roots; common fine pores; common distinct brown (10YR 4/3) fillings of BA material between peds and in old root channels; common fine flakes of mica; common fine grains of feldspar; 15 percent fine quartz gravel; strongly acid; gradual wavy boundary.

Bw2--14 to 19 inches; light yellowish brown (10YR 6/4) gravelly coarse sandy loam; weak coarse subangular blocky structure; very friable; common fine, medium, and coarse roots; common fine pores; common fine flakes of mica; common fine grains of feldspar; 15 percent fine quartz gravel; very strongly acid; gradual wavy boundary. (Combined thickness of the Bw horizon is 10 to 30 inches.)

C--19 to 27 inches; light yellowish brown (10YR 6/4) gravelly coarse sandy loam saprolite of granite; massive; friable; common coarse and few fine and medium roots; few fine pores; common distinct yellowish brown (10YR 5/4) clay fillings in old root channels and in relict rock fractures; common fine flakes of mica; common fine grains of feldspar; 15 percent fine gravel; very strongly acid. (0 to 15 inches thick)

Cr--27 to 30 inches; slightly weathered gray granite; weakly cemented; moderate excavation difficulty; abrupt smooth boundary. (0 to 10 inches thick)

R--30 inches; gray granite; very strongly cemented; very high excavation difficulty.

TYPE LOCATION: Surry County, North Carolina; about 1.0 mile southwest of Mount Airy, 0.2 mile north of the intersection of Secondary Roads 1359 and 1363 on Secondary Road 1359, 0.6 mile southeast on farm road (in county industrial park), 800 feet northeast across pasture in woodland; USGS Dobson topographic quadrangle; lat. 36 degrees 28 minutes 34 seconds N. and long. 80 degrees 38 minutes 47 seconds W.

RANGE IN CHARACTERISTICS:

Depth to top of Cambic horizon: 4 to 15 inches

Depth to base of Cambic horizon: 15 to 35 inches

Depth to Bedrock: 20 to 40 inches to hard bedrock

Rock Fragments Content: 5 to 35 percent by volume throughout, mostly gravel, cobbles, or stones

Soil Reaction: Extremely acid to moderately acid, except where limed

Mica Content: 0 to 20 percent, by volume throughout

RANGE OF INDIVIDUAL HORIZONS:

A horizon or Ap horizon (if it occurs):

Color--hue of 10YR or 2.5Y, value of 3 to 5, chroma of 2 to 6

Texture (fine-earth fraction)--coarse sandy loam, sandy loam, fine sandy loam, or loam

E horizon (if it occurs):

Color--hue of 10YR or 2.5Y, value of 4 to 6, chroma of 2 to 6

Texture (fine-earth fraction)--coarse sandy loam, sandy loam, fine sandy loam, or loam

BA horizon:

Color--hue of 10YR or 2.5Y, value of 4 to 6, chroma of 2 to 6

Texture (fine-earth fraction)--coarse sandy loam, sandy loam, fine sandy loam, or loam

Bw horizon:

Color--hue of 7.5YR to 2.5Y, value of 4 to 6, chroma of 4 to 8

Texture (fine-earth fraction)--coarse sandy loam, sandy loam, fine sandy loam, or loam. Some pedons have thin layers or pockets of sandy clay loam.

C horizon:

Color--hue of 7.5YR to 2.5Y, value of 3 to 8, chroma of 4 to 8, or is variegated in shades of these colors
Texture (fine-earth fraction)--coarse sandy loam, sandy loam, fine sandy loam, loamy sand, loamy fine sand, or loamy coarse sand

Cr horizon (if it occurs):

Bedrock kind--felsic crystalline rock, mostly granite
Bedrock hardness--extremely weakly cemented to moderately cemented
Fracture interval--greater than 4 inches
Excavation difficulty--low to high

R horizon:

Bedrock kind--felsic crystalline rock, mostly granite
Bedrock hardness--strongly cemented to indurated
Fracture interval--greater than 4 inches
Excavation difficulty--very high or extremely high

COMPETING SERIES: Excluding CEC activity class, there are 36 series in this family. Only competing series in MLRA 136 are listed.

Devotion soils--are moderately deep (20 to 40 inches) to soft bedrock and deep (40 to 60 inches) to hard bedrock

GEOGRAPHIC SETTING:

Landscape: Piedmont upland
Landform: Low hill
Geomorphic Component: Interfluve, head slope, side slope nose slope
Hillslope Profile Position: Summit, shoulder, backslope
Parent Material: Residuum from felsic metamorphic or igneous rock; mostly granites
Slope: 2 to 95 percent
Elevation: 300 to 1,600 feet
Frost Free Period: 160 to 205 days
Mean Annual Air Temperature: 52 to 57 degrees
Mean Annual Precipitation: 40 to 55 inches

GEOGRAPHICALLY ASSOCIATED SOILS:

Clifford soils--very deep, well drained, and have a thick clayey Bt horizon; on similar landforms
Devotion soils--moderately deep to soft rock; on similar landforms
Fairview soils--very deep, well drained, and have a thin clayey Bt horizon; on similar landforms
Nathalie soils--very deep, well drained, and have a thick clayey Bt horizon; on similar landforms
Rhodhiss soils--very deep, well drained, and have a fine-loamy particle-size class; on similar landforms
Stott Knob soils--moderately deep to soft rock, well drained, and have a fine-loamy particle-size class; on similar landforms
Toast soils--very deep, well drained, and have a thin clayey Bt horizon; on similar landforms

DRAINAGE AND PERMEABILITY:

Depth Class: Moderately deep to bedrock
Drainage Class (Agricultural): Somewhat excessively drained
Internal Free Water Occurrence: Very deep
Flooding Frequency and Duration: None
Ponding Frequency and Duration: None
Index Surface Runoff: Low to medium
Permeability: Moderately rapid

Shrink-Swell Potential: Low

USE AND VEGETATION:

Major Uses: Urban development and forest, some pastureland

Dominant Vegetation: Where cultivated--corn, tobacco, small grain, hay, and apples. Where wooded--eastern white pine, Virginia pine, red oak, white oak, post oak, hickory, blackgum, red maple, and dogwood.

DISTRIBUTION AND EXTENT:

Distribution: Piedmont of North Carolina and Virginia

Extent: Moderate

MLRA OFFICE RESPONSIBLE: Raleigh, North Carolina

SERIES ESTABLISHED: Surry County, North Carolina, 2003.

REMARKS: Bannertown soils were previously mapped as Ashlar soils. The 04/1997 relocation of the mesic/thermic line in North Carolina and Virginia necessitated the establishment of the Bannertown series as a mesic counterpart.

Diagnostic horizons and soil characteristics recognized in this pedon:
 Ochric epipedon--the zone from 0 to 8 inches (A and BA horizons)
 Cambic horizon--the zone from 8 to 19 inches (Bw horizon)
 Paralithic contact--the contact at a depth of 27 inches (top of Cr layer)
 Paralithic materials--the zone from 27 to 30 inches (Cr horizon)
 Other soil features identified with this pedon:
 Series control section--the zone from 0 to 30 inches

ADDITIONAL DATA:

Laboratory Data: No laboratory data available.

Database Information:

Typical Pedon Data Mapunit ID--411639

TABULAR SERIES DATA:

Soil Name	Slope	Airtemp	FrFr/Seas	Precip	Elevation
BANNERTOWN	2-95	52-57	160-205	40-55	300-1600

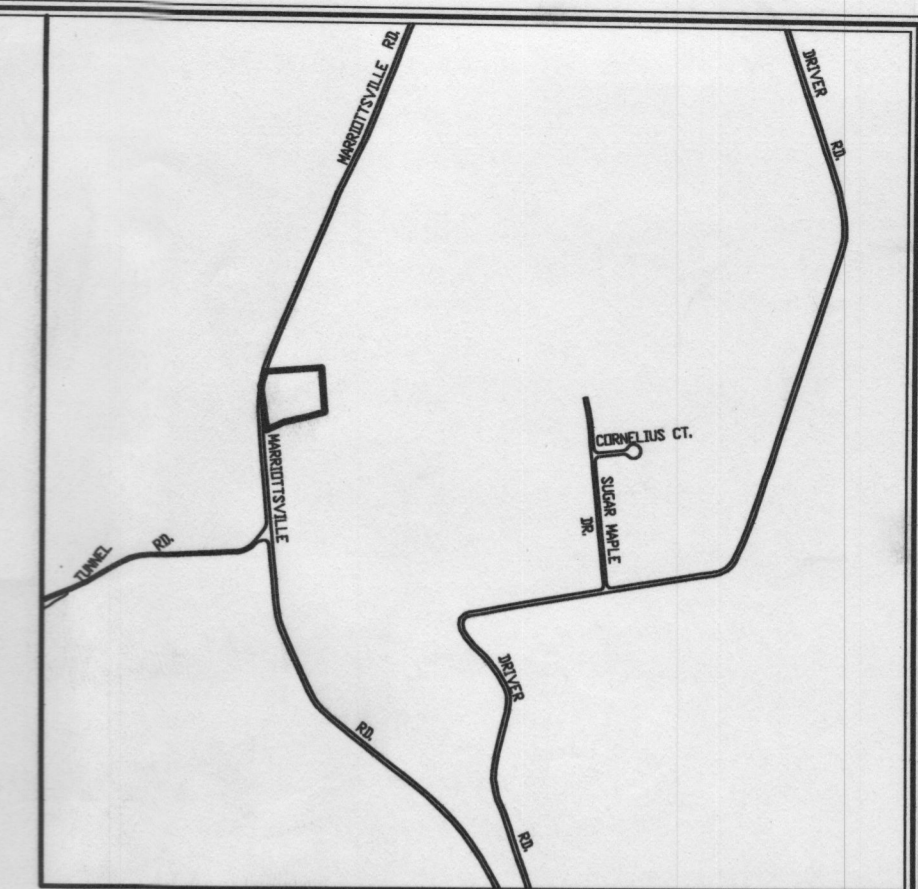
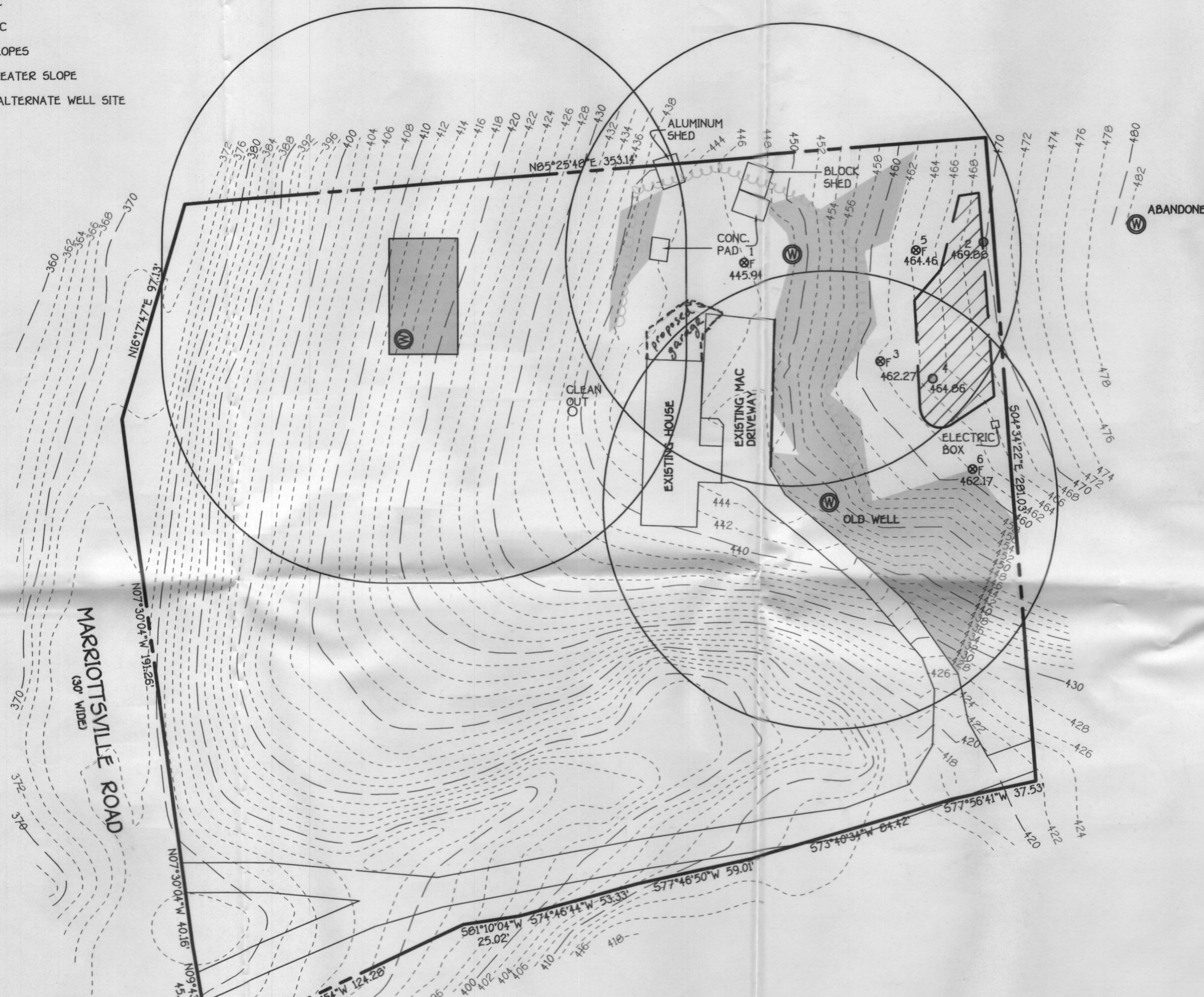
FloodL	FloodH	Watertable	Kind	Months	Bedrock	Hardness
NONE		6.0-6.0		-	20-40	HARD

Depth	Texture	3-Inch	No-10	Clay%	-CEC-
0-8	SL FSL	0-2	75-100	5-18	-
0-8	ST-SL ST-FSL	0-5	65-95	5-18	-
0-8	GR-SL GR-FSL GR-CSL	0-2	50-75	5-18	-
0-8	GR-COS GR-ICOS	0-2	50-75	2-10	-
8-27	SL FSL GR-SL	0-8	50-100	5-18	-
27-30	WB	-	-	-	-
30	UWB	-	-	-	-

Depth	-pH-	O.M.	Salin	Permeab	Shnk-Swll
0-8	3.5- 5.5	0.5-1.	0-0	2.0- 6.0	LOW
8-27	3.5- 5.5	0.0-0.5	0-0	2.0- 6.0	LOW

LEGEND

- EXISTING 2' CONTOURS
- - - EXISTING 10' CONTOURS
- EXISTING TREE LINE
- GL B2
ML C2 SOIL LINES AND TYPES
- ⊙ DENOTES PROPOSED WELL
- DENOTES FAILED PERC
- DENOTES PASSED PERC
- ▭ DENOTES 15%-24.9% SLOPES
- ▭ DENOTES 25% AND GREATER SLOPE
- ⊙ DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE



VICINITY MAP
SCALE : 1" = 1200'

GENERAL NOTES:

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 2,404 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL 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 SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. SDA WILL ONLY ACCOMMODATE TWO REPAIR SYSTEMS FOR A MAXIMUM OF A THREE BEDROOM HOME.
3. ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
4. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
5. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
6. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
7. AT TIME OF SEPTIC REPAIR, EXISTING WELL MUST BE ABANDONED AND REPLACEMENT WELL DRILLED.
8. TOPOGRAPHY SHOWN IS FIELD RUN BY FISHER COLLINS AND CARTER, INC.
9. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
10. DEED REFERENCE LIBER 3779 FOLIO 1.
11. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
12. OLD WELL TO BE ABANDONED PRIOR TO BUILDING PERMIT APPROVAL, UNLESS WELL IS CERTIFIED BY LICENSED WELL DRILLER OF HAVING BEEN PREVIOUSLY ABANDONED.

PERC CERTIFICATION

I certify that the locations shown hereon are based on field locations done under my direct supervision and are correct to the best of my professional knowledge and belief.

Terrell A. Fisher
Signature of Professional Land Surveyor
Terrell A. Fisher, Professional Land Surveyor No. 10692

4/10/07
Date

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

Robert J. Weber
COUNTY HEALTH OFFICER

SF 792 4/19/07
DATE

OWNER
RANDY AND LORI ROBINETTE
1205 MARRIOTTSVILLE ROAD
MARRIOTTSVILLE, MD 21104
410-442-1694

PERC CERTIFICATION PLAT
1205 MARRIOTTSVILLE ROAD

TAX MAP *10 GRID 9 PARCEL: 201
3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' A*525669 DATE: APRIL 10, 2007