



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 537343

AGENCY REVIEW: _____

DATE 6-18-12

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) Rick Warfield

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS 6160 Ten Oaks RD Clarksville MD
STREET CITY/TOWN STATE ZIP

APPLICANT Health-Ed, Equipment

DAYTIME PHONE 410-984-0047 CELL _____ FAX 301-499-5794

MAILING ADDRESS PO Box 519 Annapolis Junction MD
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME 6160 Ten Oaks RD LOT NO. _____

PROPERTY ADDRESS 6160 Ten Oaks RD
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
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

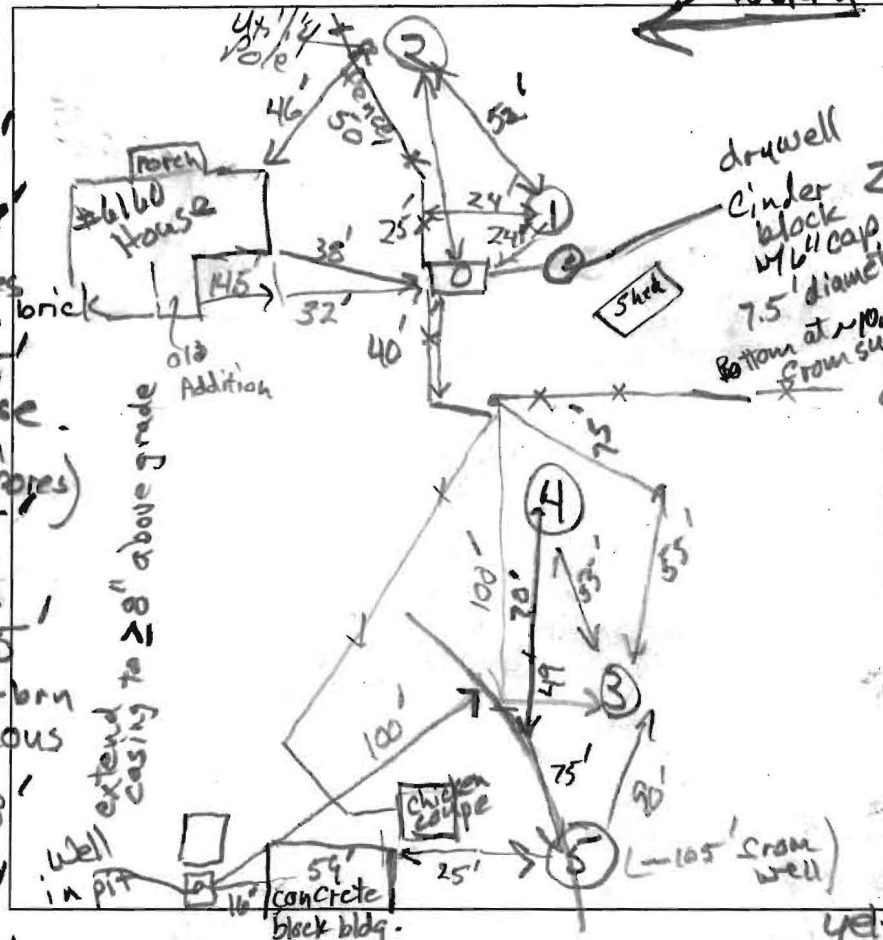
6160 Ten Oaks Rd. (TM 34, P. 43; 115 ± Ac)

North

A/P

①

②



blk loam 8.7'
3fg many roots
grey & brn sl, few stones
2 f s blk many roots
brn sl, dense
f f yellow (in pores)
brn vgr scl
C1d grey-brn
30% rock
brn & grey-brn sl, micaceous
20% m
yel-brn sl
st sl, brn
25%
brn sl
p3d grey-brn many mica
pale yellow & grey fsl
many Mn soft masses
C2P (red)
very moist
micaceous
* water seep at 12'
12.8'
④
dk grey brn L
3 cpl
yel-red scl
few stones, c. mica
yel-red st, dense
yel-red & brn sl, many mica
brn & grey brn sl
many mica
pale yellow sl
c3d white & C2P yel-red
11.1' grey fsl
11.7' micaceous

dk grey brn L
2fg 2 v s blk
brn scl
2 m s blk
yel-brn yel
st yel dense
yel-red yel
grey brn
sl, many fine mica
brn & grey brn
sl, many fine mica
(micaceous)
dk grey brn fsl
wz p red
micaceous
very moist
③
dk grey-brn L
brn scl, sticky
comm. mica
brn & grey brn
fsl, sticky
dense
yel-red & yellow
sl, few mica
brn fsl
micaceous
grey & pale yellow
fsl, fine red
strata
very moist
⑤
dk grey brn L
grey-brn L
yel-red scl
yel-red L, dense
brn & yel-red
fsl, many mica
pale yellow
moist
9' mzp yel-red

| DATE | TEST # | DEPTH | START | BREAK 1" DROP | STOP 2" DROP | TIME OF 2ND INCH | P/F/H |
|---------|--------|-------|--------|------------------------|--------------|------------------|-------|
| 6/18/12 | 1 | 5.8' | 10:58 | 11:04 | 11:16 | 12 | P |
| 6/18/12 | 2 | 11.6' | Visual | 4.5' to 7'; 0.8 gpd/ft | 7:08 gpd/ft | | P |
| 6/19/12 | 3 | 8.2' | Visual | 1.2 gpd/ft | | | P |
| 6/19/12 | 4 | 5.5' | 12:17 | 12:25 | 12:40 | 15 | P |
| 6/19/12 | 5 | 8.5' | 1:00 | 1:30 | — | 30 | F |

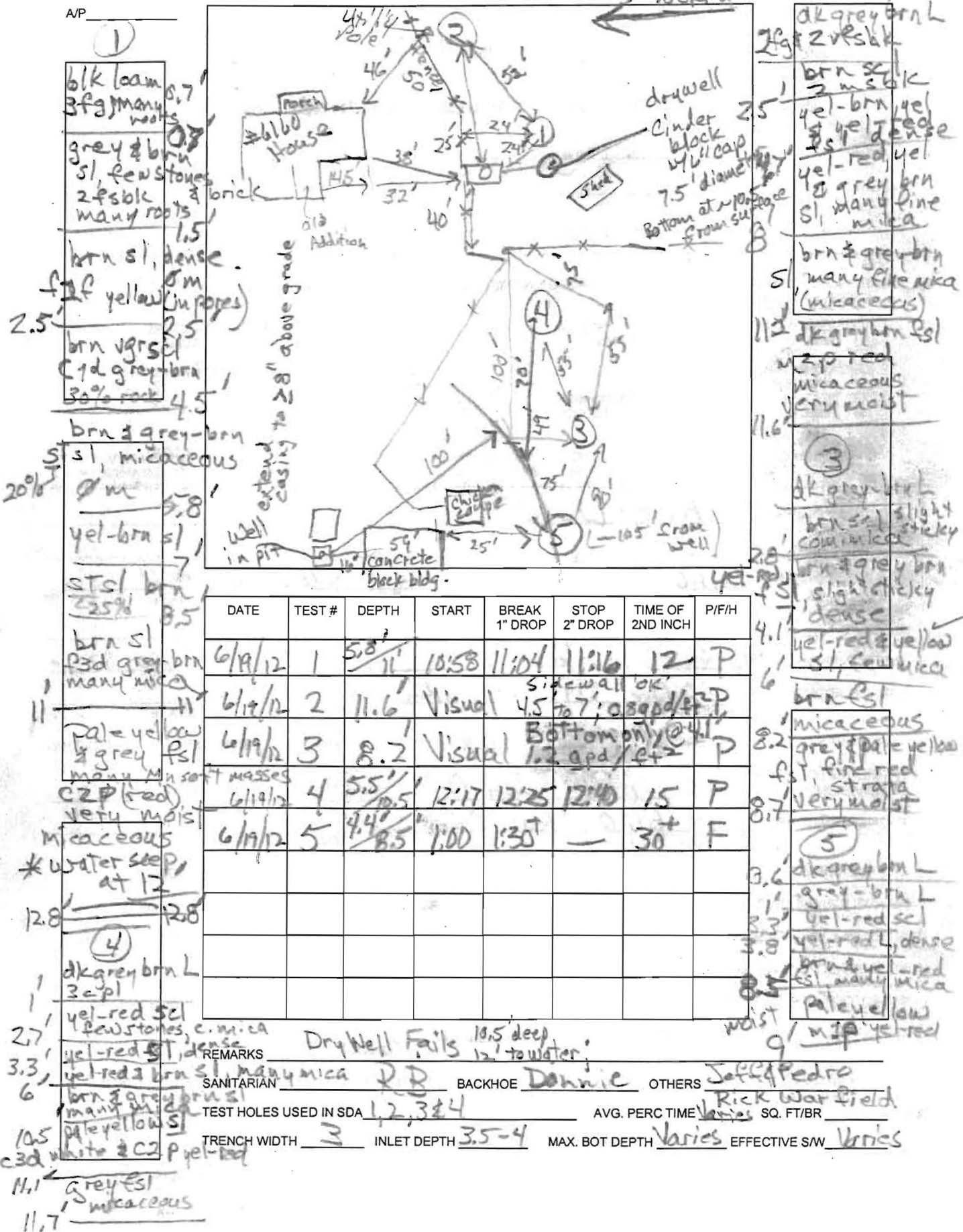
Dry Well Fails 10.5' deep 12' to water

REMARKS
SANTARIAN
TEST HOLES USED IN SDA 1, 2, 3 & 4
TRENCH WIDTH 3
INLET DEPTH 3.5-4
MAX. BOT DEPTH
AVG. PERC TIME
EFFECTIVE SW

Donnie
Rick Warfield
Jared Pedro
Varies
Varies

6160 Ten Oaks Rd. (TM 34, P. 43; 115 ± Ac)

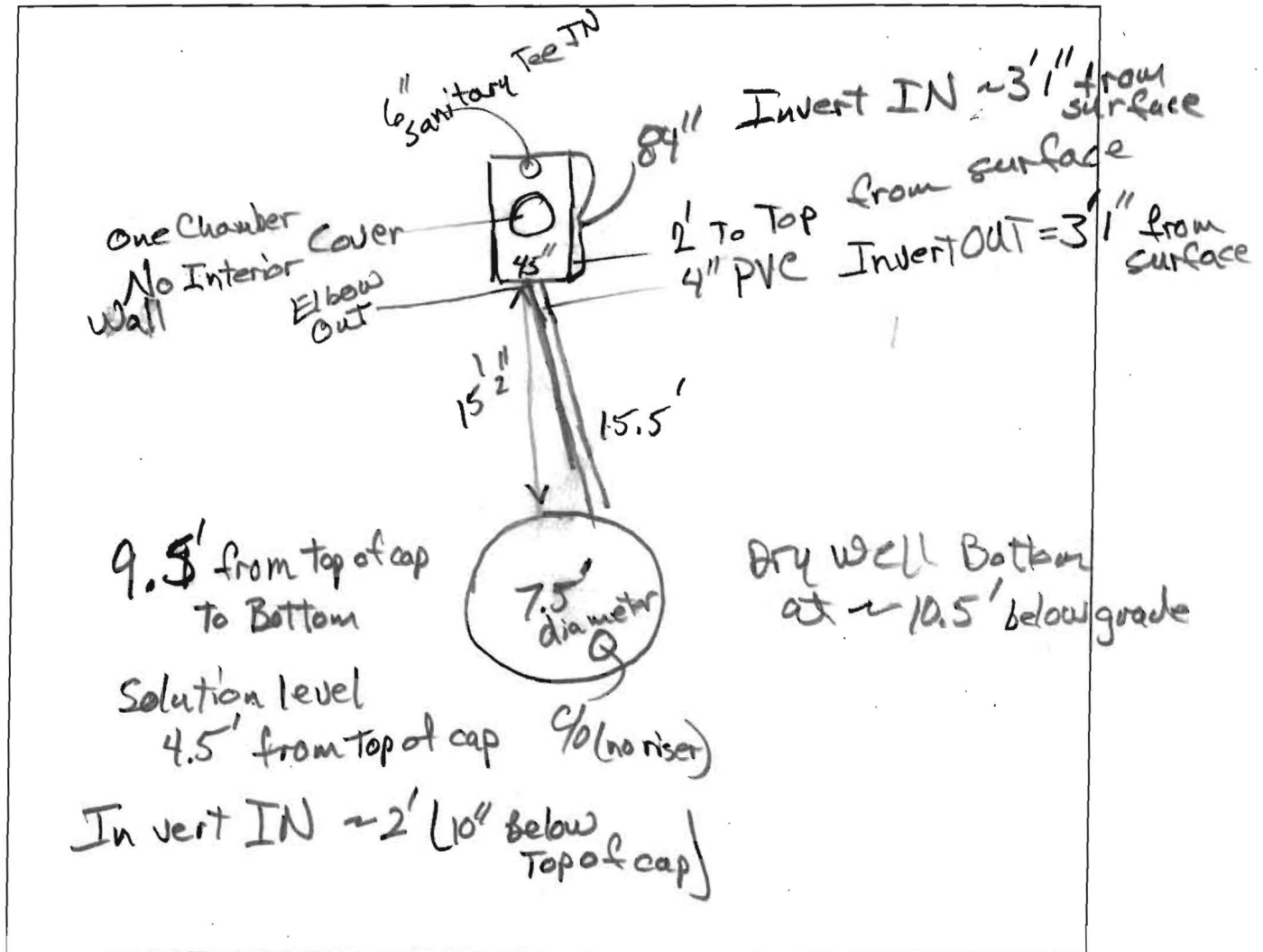
A/P



SITE INSPECTION SHEET

OWNER: Richard Warfield PHONE #: _____
ADDRESS: 6160 Ten Oaks CONTRACTOR: _____
Clarksville 21029 WELL TAG #: _____
SUBDIVISION: Tax Map 34 LOT: P. 43 COUNTY #: _____
PROPOSAL: Dry Well / Septic System Evaluation

LOCATION DIAGRAM



COMMENTS: Seasonal High Water Table occurs at 11' from soil surface; Active water seeps observed at 12' depth

DATE: 6/19/2012 INSPECTOR: R Buck



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

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

June 15, 2012

To: Rick and Colleen Warfield, applicants
c/o Colleen Warfield, caw21029@verizon.net

RE: **Perc Test Report, 6160 Ten Oaks Road, [Tax Map 34, Parcel 43; 8601], A537343**

Percolation testing was conducted on the referenced property on June 19, 2012. The purpose for conducting these percolation tests was to (in order) uncover the existing system, describe it and prove or disprove a 4-foot soil buffer to the water table beneath it. If failed, as it did, the second objective was to define area for a replacement system. The third objective was to demonstrate that nearby areas are suitable for onsite wastewater treatment and disposal.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Soil conditions either satisfactory or unsatisfactory for onsite wastewater disposal were observed at each test location on each proposed lot. Both satisfactory and unsatisfactory results were recorded. Areas that may be included in a septic reserve are represented by test locations having satisfactory soil conditions. The subject property was created in the early 1900s and the last subdivision (for a 1-acre lot fronting on Ten Oaks Road) was completed in the 1950. If a septic reserve is to be established on the subject property at this time, the area or combination of areas defined as a septic reserve must be large enough to accommodate at least 3 drainfields to serve the planned residence [Howard County Code, 3.805.A.2.X].

The unsatisfactory results included a Failed test in an area near to the barns, where the percolation rate was greater than 30 minutes. At this location the water table indicators occurred at 8.5 feet, so the test was conducted in fine-textured subsoils at about 4.4 feet depth. At a location near the existing dry well, water table indicators began at 11 feet depth and a water seep was observed at 12 feet. As the bottom of the dry well is at about 10.5 feet from the soil surface, the dry well is Failed as there is not a 4-foot soil buffer between its bottom and the level at which the seasonal high water table occurs.

Soil conditions satisfactory for onsite wastewater treatment and disposal were found at four locations. Locations 1 and 2 define an area appropriate for an initial system, i.e. a drainfield to replace the dry well. Location 4 is centered in an area appropriate for a repair drainfield, and location 3 defines a lower boundary for future repair. The loading rate at locations 1, 2, and 4 is 0.8 gallons per day per square foot of absorption area (gpd/sq.ft.). At location 3 the infiltration rate is 1.2 gpd/sq.ft.. The depth of the seasonal high water table limits the usable depth of the soil profile at all 4 locations.

Field data collected are shown on a Percolation Test Worksheet enclosed with this letter. Recommended Inlet and Trench Bottom depths, and Usable Sidewall all are based on observed soil properties and characteristics at respective test locations as well as the particular soils materials tested. The values for the drainfield parameters will be documented and then maintained in the Health Department file for the subject property.

If you have any questions regarding this evaluation, please contact me at the above address or by calling (410) 313-2691.

Respectfully,

Robert Bricker, CPSS, REHS/RS
Environmental Sanitarian
Well and Septic Program

Enclosures (2)
Copy: file

Davis, Michael J

From: Colleen Warfield [caw21029@verizon.net]
Sent: Tuesday, May 15, 2012 10:45 AM
To: Davis, Michael J
Subject: Exemption from Percolation Certificate

Mike Davis
Assistant Director
HCHD Well & Septic Program

May 15, 2012

Mr. Davis, I am writing you regarding our home at 6160 Ten Oaks Rd.; Clarksville, Md. 21029. We are requesting a variance from a Percolation Certificate because the home has an existing, working septic system. We will be adding a family room and a bathroom as per the plans you have received from us. The home is unoccupied and will remain so until the renovations are complete. We currently live in another home on the same farm. We will actually be losing a bedroom to make a walk-in closet. We are a single family of 3 members, Rick, Colleen and Rachel Warfield. We would like to obtain a building permit ASAP since we inherited the house and farm in August 2011. We look forward to fixing up the old farm house for our family. Thank you, Colleen Warfield

Rick Warfield
Farm 410 531 2660
*Cell 443-756-3309

PERCOLATION CERTIFICATION PLAN
6160 TEN OAKS ROAD
'PERSIMMON BOTTOM FARM'
TAX MAP 34, PARCEL 43

OWNER SIGNATURE BLOCK

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON WORK PERFORMED IN MY PRESENCE OR BY MY DIRECTION, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Richard E. Libby 7/3/12
(SIGNATURE) (DATE)

HEALTH OFFICER SIGNATURE BLOCK

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.

Richard J. Davis 7/12/12
for (SIGNATURE) (DATE)

THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS EASEMENT ARE RESTRICTED. THIS EASEMENT SHALL BECOME VOID 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.

NOTES

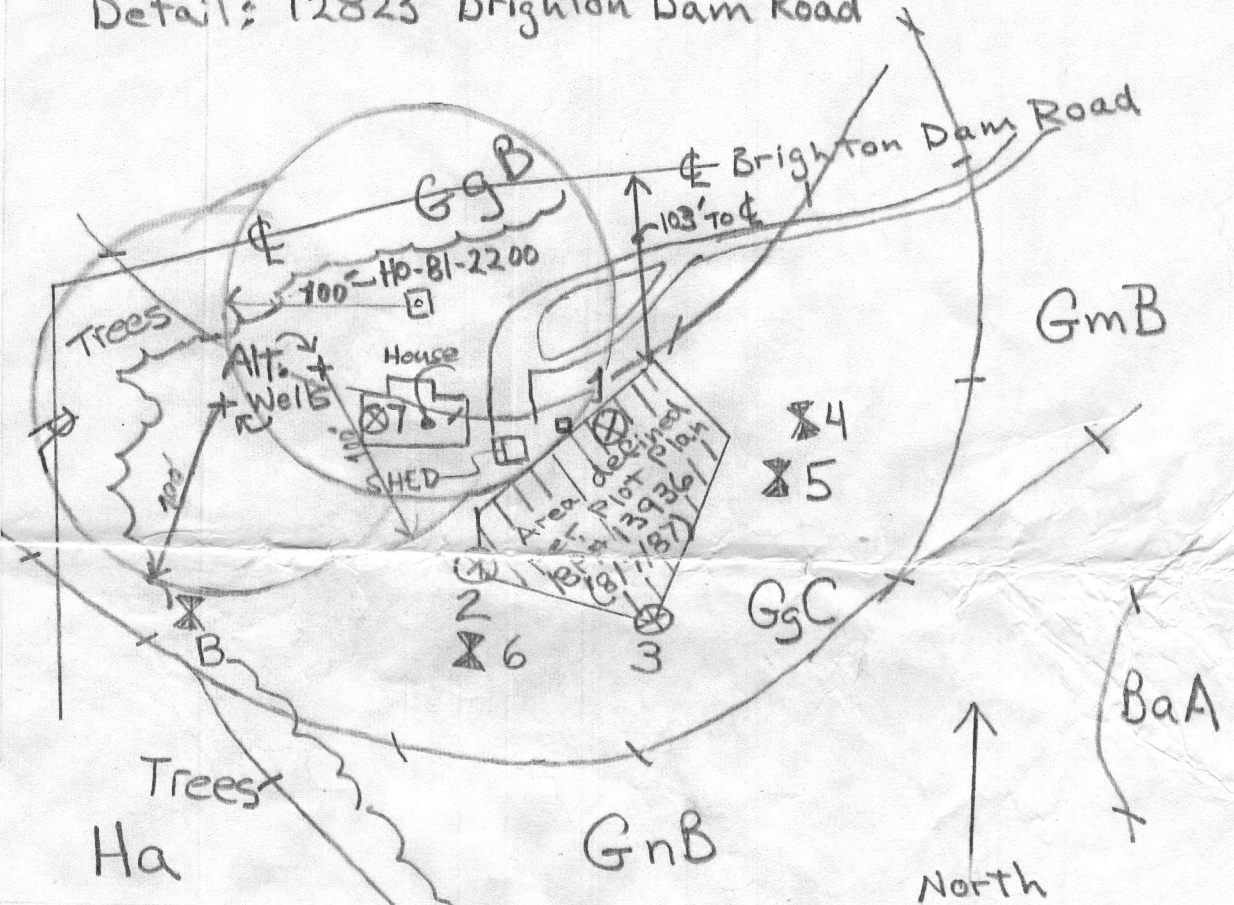
- ALL EXISTING WELLS ON THE SUBJECT PROPERTY AND ALL WELLS WITHIN 100 FEET OF THE PROPOSED SEPTIC RESERVE AREAS ARE REPRESENTED TO THE BEST OF MY KNOWLEDGE AND BELIEF.
- TOPOGRAPHIC CONTOUR LINES ARE NOT AVAILABLE AT THIS TIME. DISCHARGE TO THE PROPOSED SEPTIC RESERVE AREAS IS ACHIEVED BY GRAVITY FLOW AT THIS TIME. EXISTING AND PROPOSED WELL LOCATIONS ARE NOT DOWN-GRADE OF ANY KNOWN OR PROPOSED SEPTIC RESERVE AREAS.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.
- ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THE EXISTING RESIDENCES AND ALL OTHER STRUCTURES WILL REMAIN.
- THE PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN REVISION IS TO ESTABLISH SEPTIC RESERVE AREAS ON THE SUBJECT PROPERTY IN SUPPORT OF A PROPOSED ADDITION TO THE RESIDENCE AT 6160 TEN OAKS ROAD.
- THE DRY WELL THAT HAS SERVED THE RESIDENCE AT 6160 TEN OAKS ROAD HAS BEEN DETERMINED TO BE UNSUITABLE BY AN ENVIRONMENTAL SANITARIAN DUE TO ABSENCE OF A 4-FOOT SOIL BUFFER TO WATER TABLE. ALSO THE SEPTIC TANK CAPACITY IS ONLY ABOUT 750 GALLONS. THE DRY WELL WILL BE REPLACED BY TRENCHES AND THE SEPTIC TANK CAPACITY WILL BE AMENDED TO EQUAL 1300 GALLONS PRIOR TO HEALTH DEPARTMENT APPROVAL OF THE BUILDING PERMIT PROPOSAL.
- THE EXISTING WELL IS IN A PIT BUT HAS A FITLESS ADAPTER INSTALLED. THE WELL CASING WILL BE EXTENDED TO A HEIGHT OF AT LEAST 8 INCHES ABOVE SOIL GRADE PRIOR TO HEALTH DEPARTMENT APPROVAL OF THE BUILDING PERMIT PROPOSAL.

LEGEND

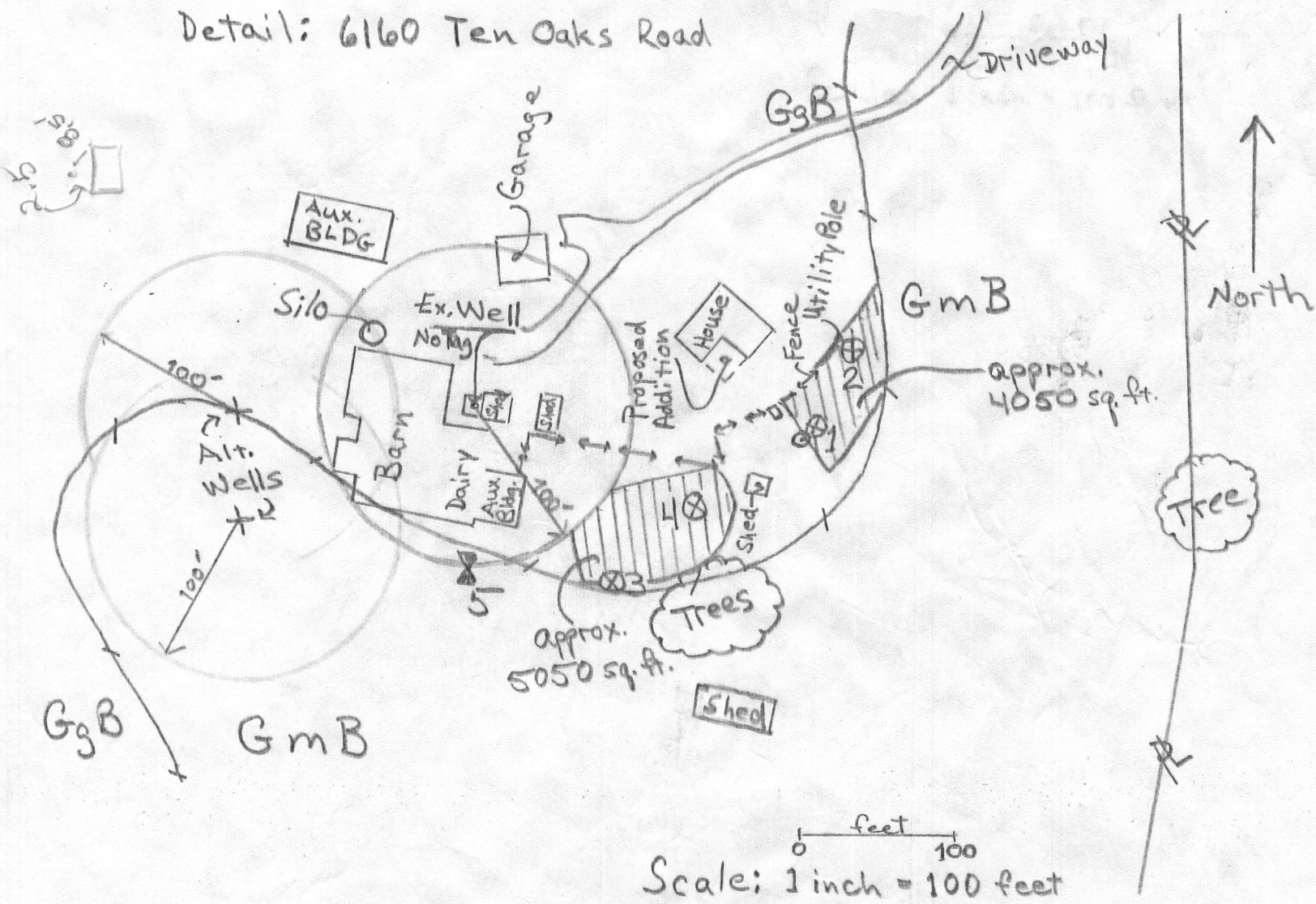
- center line public road
- property line
- GgB / GmB soil map unit delineation
- existing well
- + proposed alternate (alt.) well location
- existing septic tank
- existing dry well
- ⊗₂ Perc Test - Pass
- ⊗₅ Perc Test - Fail
- Fence (at or near septic reserve)
- Treeline or tree outline

OWNER/AUTHORITY: Rick Warfield
6160 Ten Oaks Road
Clarksville, MD 21029

Detail: 12825 Brighton Dam Road



Detail: 6160 Ten Oaks Road



SUPPLEMENT SHEET
PERCOLATION CERTIFICATION PLAN
6160 TEN OAKS ROAD
'PERSIMMON BOTTOM FARM'
TAX MAP 34, PARCEL 43

LEGEND

- ⊕ centerline public road
- ▬ property line
- GgB x GmB soil map unit delineation
- ⊙ 100-foot radius (for existing well)
- ▣ existing well

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Richard F. Warfield 7/3/12
 (SIGNATURE) (DATE)

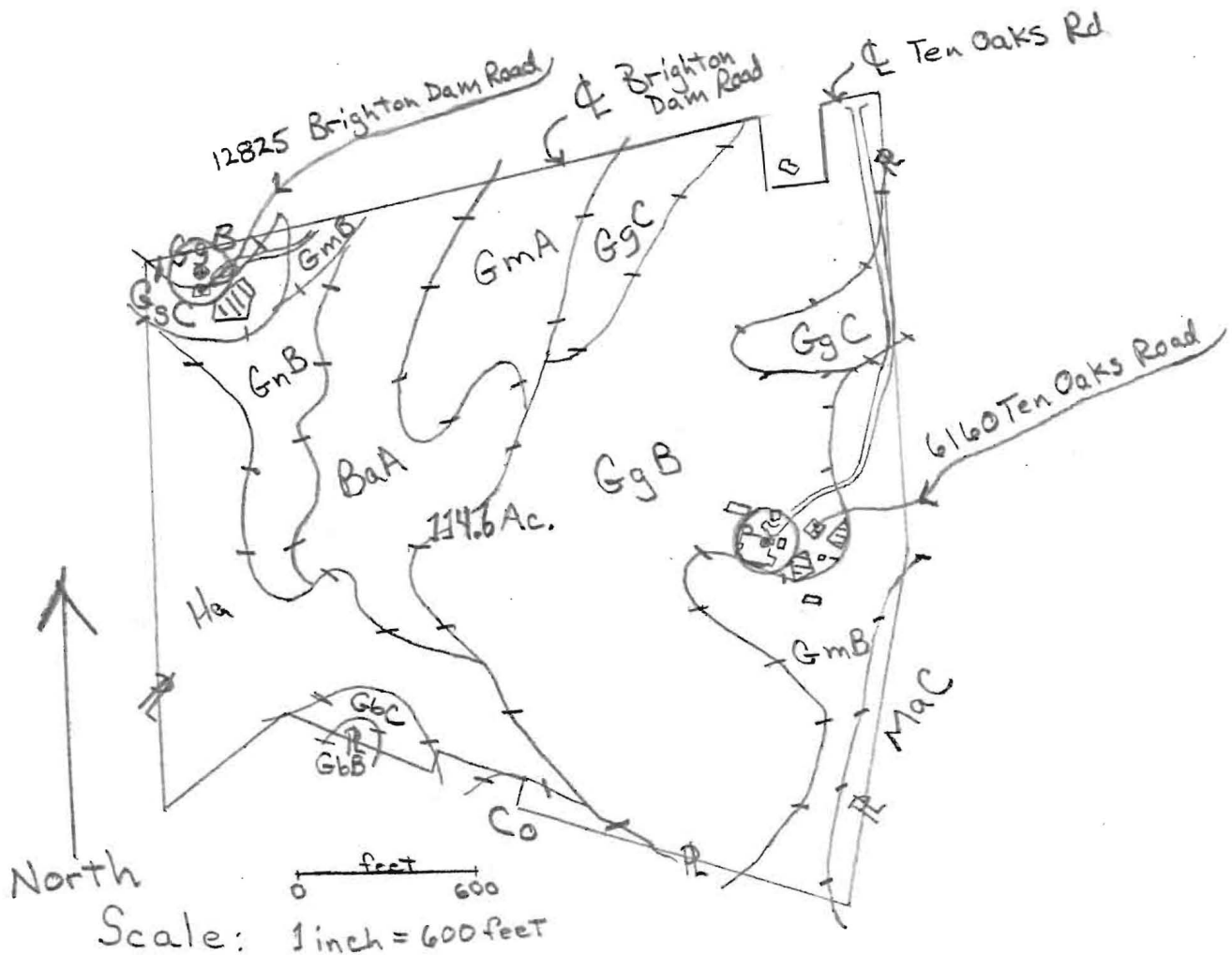
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APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.

Michael J. Davis 7/12/12
 for (SIGNATURE) (DATE)



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537343