



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

APP 5 34504

AGENCY REVIEW: _____

DATE 03/16/2011

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) Roger & Robin Zeender

DAYTIME PHONE 410-490-1443

CELL 240-271-8505 (Dave)

FAX 443-325-7685

MAILING ADDRESS 8495 Reservoir Rd. Fulton Md 20759
STREET CITY/TOWN STATE ZIP

APPLICANT E. Dave Harward

DAYTIME PHONE 443-325-7682 CELL 240-271-8505 FAX 443-325-7685

MAILING ADDRESS 3300 North Ridge Rd Ellicott City Md 21043
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Beaufort Park-

LOT NO. 11

PROPERTY ADDRESS 8505 Clarkson Drive Fulton, Md.
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 45 GRID 12 PARCEL(S) 26 EX. PROPOSED LOT SIZE 40,855 S.F.

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.

E. David Harward
SIGNATURE OF APPLICANT

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

A/P _____

2011 MAR 16 AM 11:32
 COUNTY OF ALBANY
 ENVIRONMENTAL SERVICES
 1000 STATE STREET
 ALBANY, NY 12207

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

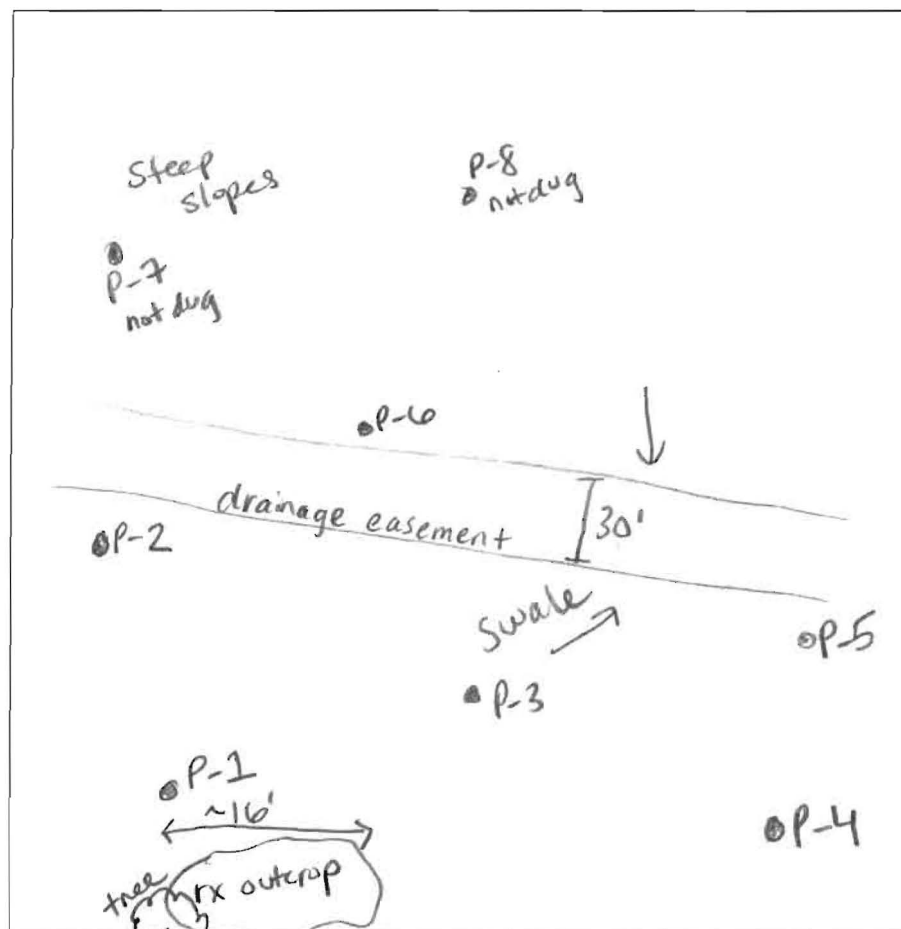
REMARKS _____

SANITARIAN _____ BACKHOE _____ OTHERS _____

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

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

A/P



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6-6-11	P-3	3.5' / 12'	9:03	9:11	9:22	11	P
	P-2	3.5' / 11'	9:21	9:35	9:55	20	P
	P-1		VISUAL				F
	P-4	4.5' / 12'	9:51	9:56	9:59	3	P
	P-5	4' / 11'	10:10 ⁰⁵	10:11 ³⁰	10:13 ⁰⁷	< 2	repor 5
	P-5	4' / 11'	10:13 ¹⁰	10:16 ¹⁷	10:19 ¹⁵	~ 3	P
	P-6	12'	VISUAL				P
	P-2	Max. trench bottom - 6'					
	P-3	Max. trench bottom - 6'					

REMARKS holes dug per plan / Drainage easement marked Well is in poor condition

SANITARIAN HS BACKHOE ? OTHERS owner

TEST HOLES USED IN SDA 60 AVG. PERC TIME SQ. FT/BR

TRENCH WIDTH INLET DEPTH MAX. BOT DEPTH EFFECTIVE SW

P-3
6" brn l
6" brn scl
2 f3bk
3' brn sl
micaceous
6' red brn
sl
H₂O @ bottom 11.5'
10.5' moist brn
sl
12' w/ mica schist

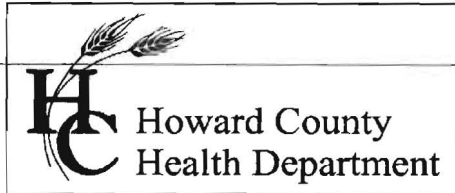
P-2
8" red brn
sl
4.5' red brn
scl
lmsbk
red brn
sl
micaceous
↓
10' Micascist
w/ Mn
H₂O moist
@ bottom

P-1
6" brn l
6" brn scl
micaceous
~ 65%
2.5' brn
vchsl
5' refusal

(P-4)
brn l 10"
brn scl
lmsbk 4'
yellow/orng
brn sl
micaceous 8'
brn fgl
moist brn
fsl 10'
12' bottom

P-5
brn l 10"
lmsbk 10"
yellow/orng
scl 3'
yellow brn
sl
moist
micaceous
brn sl 9.5'

P-6
brn l
3' red brn
scl 3.5'
on red brn
sl 8'
red brn
fsl
↓
micaceous
ls 12'



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

Date: June 8th, 2011

To: Dave Harward; Applicant
Sill, Adcock & Assoc. LLC

From: Heidi Scott, R.S.
Development Coordination Section
Well & Septic Program

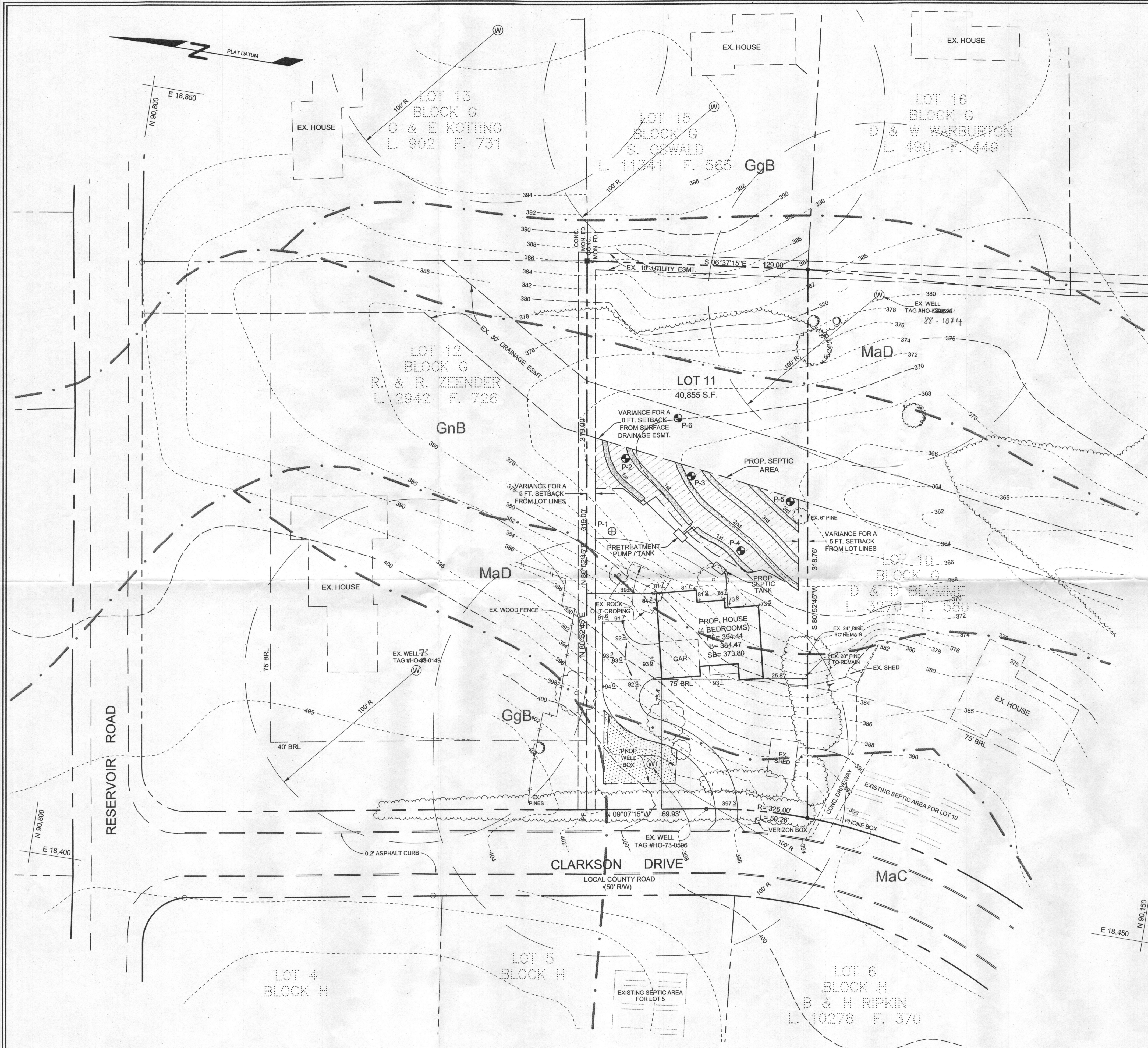
RE: PERCOLATION TEST RESULTS – A534504
8505 Clarkson Rd. – Beaufort Park Lot 11

Percolation testing was conducted at the above referenced property on June 6th, 2011 during a declared wet season. Results indicate satisfactory and unsatisfactory soil conditions. A total of six test holes were dug. Tests P-7 & P-8 were not dug. Holes P-2 thru P-6 had acceptable perc rates. The water table was observed in holes P-2 and P-3 at approximately 11 feet. Test P-1 failed due to shallow rock. A large rock outcrop was also observed near test P-1. The existing well on the lot (HO-73-0596) did not have a secured 2 piece cap or conduit, wires were also exposed. Prior to issuance of a building permit or an occupancy certificate these items must be addressed.

Field data collected is shown on the Percolation Test Worksheets enclosed with this letter. Further review of this project is contingent upon submission of a Percolation Certification Plan. A variance request must be submitted to allow the proposed septic area within the setback to the existing drainage easement and within 5' to the property boundaries. Bedroom limitations for the proposed house may be considered during this stage due to limited area.

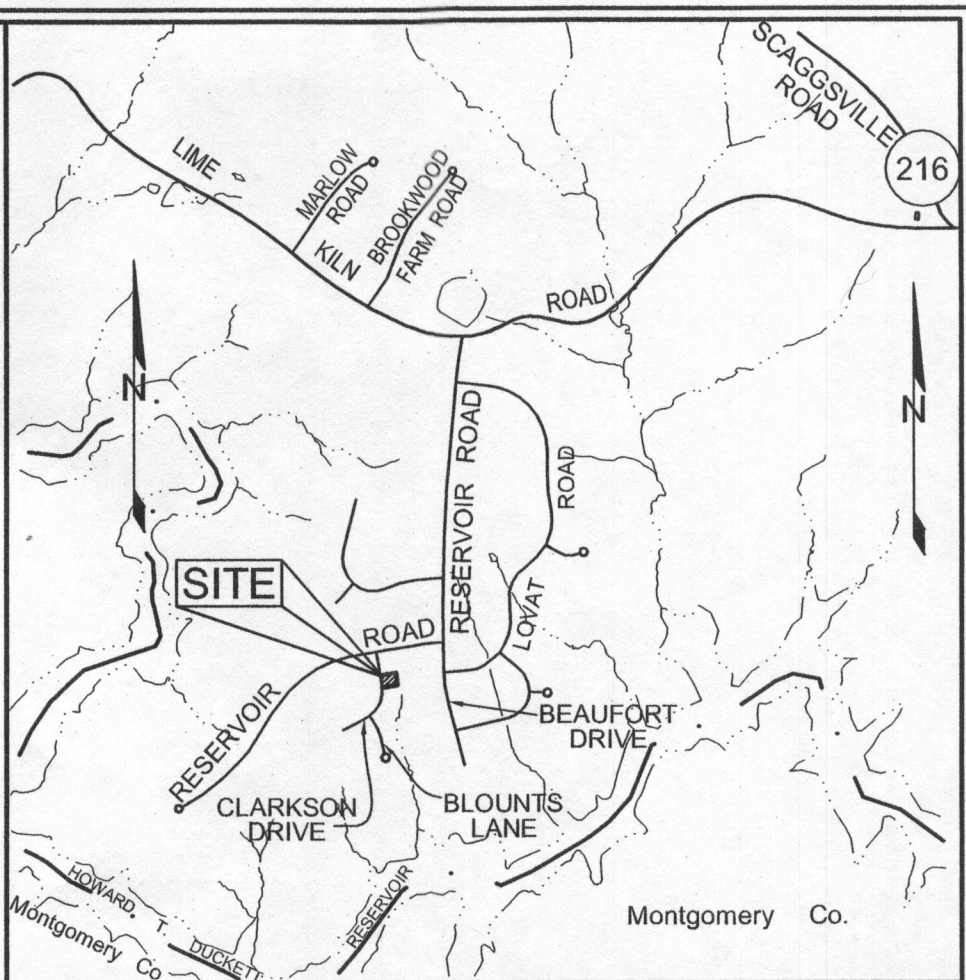
If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at (410) 313-6287.

Enclosures
Cc:



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING TREE
- PERCOLATION TEST HOLE (PASSED)
- PERCOLATION TEST HOLE (FAILED)
- EXISTING WELL
- SOIL BOUNDARY
- PROPOSED WELL BOX



VICINITY MAP
SCALE: 1"=200'

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP
GnB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C
GnB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	B
GnB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C

PERCOLATION TEST HOLE INFORMATION

BORING #	PASSED OR FAILED	ELEVATION
P-1	FAILED	374.10
P-2	PASSED	370.20
P-3	PASSED	367.90
P-4	PASSED	368.50
P-5	PASSED	366.30
P-6	PASSED	370.00

GENERAL NOTES

- SUBJECT PROPERTY ZONED RC-DEO PER 02/02/04 COMPREHENSIVE ZONING PLAN.
- TOTAL AREA OF PROPERTY = 0.9379 AC ± (40,855 S.F.)
- PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT, 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.
- BOUNDARY SHOWN HEREON IS BASED ON RECORD PLAT BOOK 10, PLAT NO. 8, BEAUFORT PARK.
- THE TOPOGRAPHY SHOWN ON LOT 7 HAS BEEN FIELD RUN BY SILL, ADCOCK & ASSOCIATES, LLC, IN SEPTEMBER, 2010. THE REMAINING EXISTING TOPOGRAPHY IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 1993.
- PROPERTY ADDRESS: 8505 CLARKSON DRIVE.
- DEED REFERENCE: LIBER 2942, FOLIO 726, PB. 10, PLAT 8.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
- ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN-GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS HAVE BEEN FIELD LOCATED.
- THE EXISTING WELL (HO-73-0696) WAS FIELD LOCATED BY SILL, ADCOCK & ASSOCIATES, LLC, IN SEPTEMBER, 2010. THIS EXISTING WELL MUST HAVE A SECURED TWO PIECE CAP OR CONDUIT AND EXPOSED WIRES CANNOT BE EXPOSED PRIOR TO ISSUANCE OF BUILDING PERMIT.
- THE PURPOSE OF THIS PLAN IS TO ESTABLISH THE SEPTIC EASEMENT FOR THE LOT SHOWN. THE SEPTIC SYSTEM SHOWN IS BASED ON THE APPROVAL OF THE REQUESTED WAIVERS FOR THE SEPTIC AREA SETBACKS OF 5 FT. FROM PROPERTY LINES AND 0 FT. FROM THE SURFACE DRAINAGE EASEMENT.
- A VARIANCE TO THE MINIMUM 2 ACRE LOT SIZE REQUIREMENT FOR LOTS WITHIN 2500 FEET OF A RESERVOIR (COMAR 26.04.02.04K) MUST BE GRANTED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR SEPTIC SYSTEM INSTALLATION.
- PRE-TREATMENT WILL BE REQUIRED FOR THE PROPOSED SEPTIC SYSTEM AND THE MAXIMUM NUMBER OF BEDROOMS IS FOUR (4).

OWNER/DEVELOPER

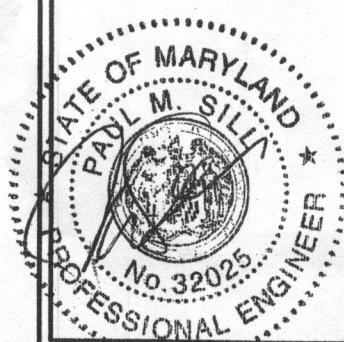
ROGER & ROBIN ZEENDER
8495 RESERVOIR ROAD
FULTON, MARYLAND 20759
301-490-1443

PERCOLATION CERTIFICATION PLAN
BEAUFORT PARK

LOT 11, BLOCK G
8505 CLARKSON DRIVE
FULTON, MARYLAND 20759

TAX MAP 45 GRID 12
6TH ELECTION DISTRICT

PARCEL 26
HOWARD COUNTY, MARYLAND



Sill · Adcock & Associates · LLC
Engineers · Surveyors · Planners
3300 North Ridge Road, Suite 160
Ellicott City, Maryland 21043
Phone: 443.325.7682 Fax: 443.325.7685
Email: info@saaland.com

DESIGN BY: DH
DRAWN BY: DH
CHECKED BY: PS
SCALE: AS SHOWN
DATE: JULY 15, 2011
PROJECT #: 10-038
SHEET #: 1 of 1

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. 3202, EXPIRATION DATE: JUNE 26, 2013.

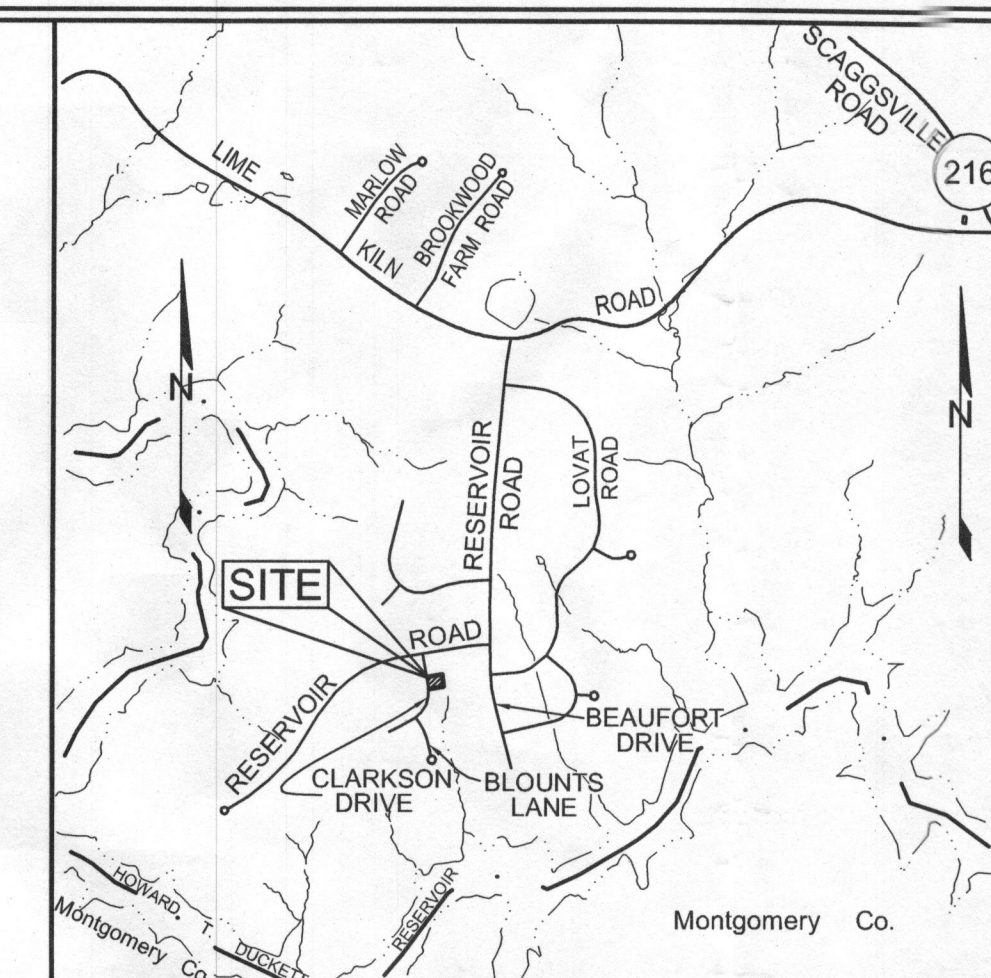
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

DATE

PLAN VIEW

SCALE: 1"=30'



SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	GROUP
GnB	GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C
GbB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	B
GmB	GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C

GENERAL NOTES

1. SUBJECT PROPERTY ZONED RR-DEO PER 02/20/04 COMPREHENSIVE ZONING PLAN.
 2. TOTAL AREA OF THIS LOT = 2.83 AC± (40,655 SQ.FT.)
 3. PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
 4. BOUNDARY SHOWN HEREON IS BASED ON A RECORD PLAT FOR THE BEAUFORT PARK SUBDIVISION, PLAT ONE (P.B. 10, P. 8)
 5. THE LOT BOUNDARY TOPOGRAPHY SHOWN IS FROM A TOPOGRAPHICAL SURVEY PROVIDED BY SILL, ADOCK & ASSOCIATES, L.L.C., SEPTEMBER, 2010.
 6. PROPERTY ADDRESS: 8509 CLARKSON DRIVE.
 7. DEED REFERENCE: LIBER 2942, FOLIO 726
 8. THIS LOT WAS CREATED PRIOR TO MARCH, 1972 (RECORDED JAN. 1, 1955, IN P.B. 10, P. 8).
 9. THERE IS A WELL EXISTING ON THIS LOT TO SERVE THE PROPOSED HOUSE.
- [TAG NO. HQ-73595]

OWNER/DEVELOPER

ROGER & ROBIN ZEENDER
8495 RESERVOIR ROAD
FULTON, MARYLAND 20759
301-490-1443

PERCOLATION APPLICATION PLAN
BEAUFORT PARK

LOT 11, BLOCK G
8505 CLARKSON DRIVE
FULTON, MARYLAND 20759

TAX MAP 45 GRID 12
6TH ELECTION DISTRICTPARCEL 26
TY, MARYLAND

Sill · Adcock &
Associates · LLC

Engineers · Surveyors · Planners

3300 North Ridge Road, Suite 160
Ellicott City, Maryland 21043
Phone: 443.325.7682 Fax: 443.325.7683
Email: info@saaland.com

DESIGN BY: _____ DH
DRAWN BY: _____ DH
CHECKED BY: _____ PS
SCALE: _____ AS SHOWN
DATE: _____ MARCH 15, 2011
PROJECT #: _____ 10-038
SHEET #: _____ 1 of 1

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. 32025, EXPIRATION DATE: JUNE 20, 2011