

Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
Main: 410-313-6300 | Fax: 410-313-6303
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

September 25, 2013

To: Robert Daffer, Applicant

~~1234567890~~

RE: Percolation Test Report, Beaufort Park, Lots 10 and 12; A545133

Percolation testing was conducted on the referenced lots on September 24, 2013. The purpose for conducting these percolation tests was to re-establish sewage disposal areas (SDA) on the respective lots. The area of each SDA must be at least 10,000 square feet.

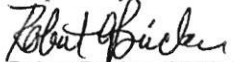
Five pits for soil profile descriptions and percolation tests were dug at staked locations on each lot. Soil conditions observed at all ten location are suitable for wastewater disposal.

Field data collected are shown on Percolation Test Worksheets 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 during the Percolation Certification Plan process, and then maintained in the Health Department file for the subject property.

A Percolation Certification Plan must now be submitted to the Health Department for signature approval. Additional field review of well or soil conditions may be required at any time during this process. After the Percolation Certification Plan is signed, a proposal for building permit may be reviewed for approval by the Health Department.

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

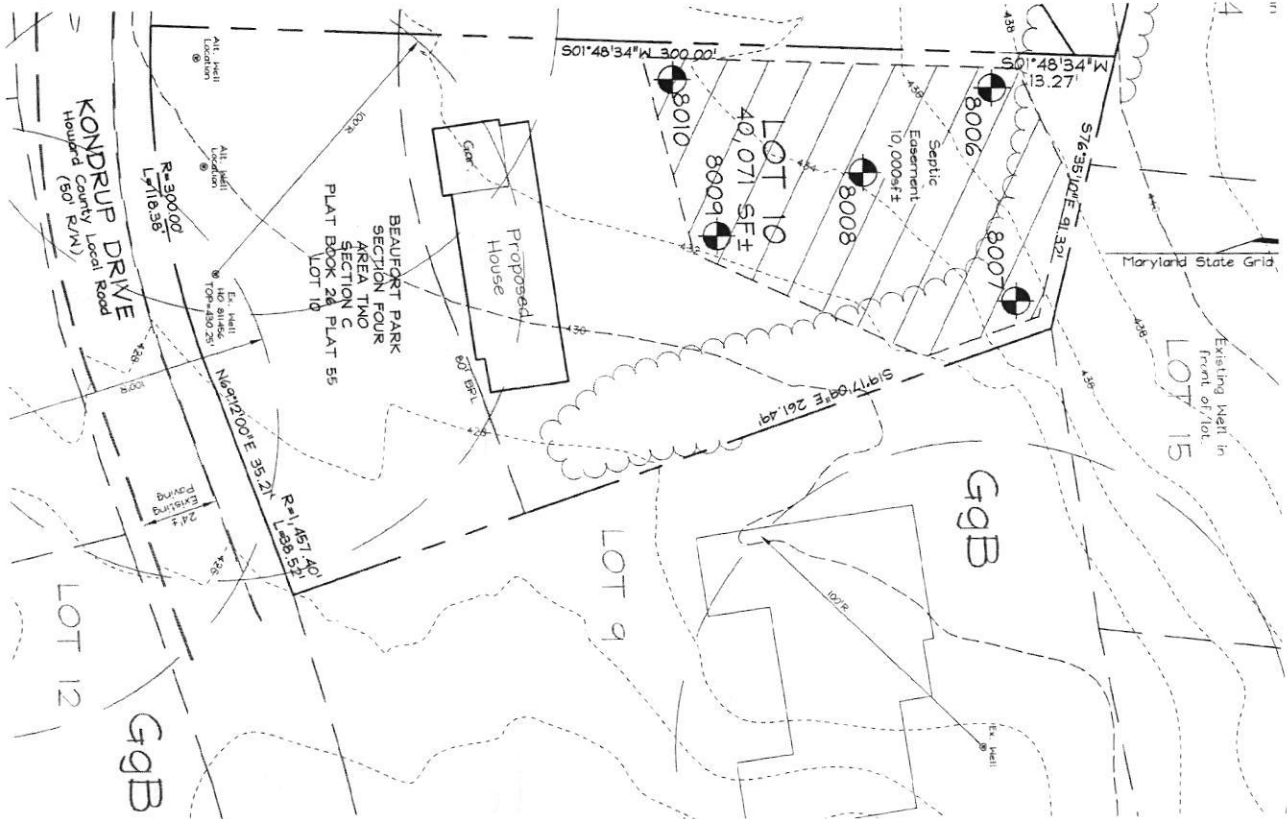
Respectfully,


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

Enclosures (1)

Copy: File

12347 Roundup

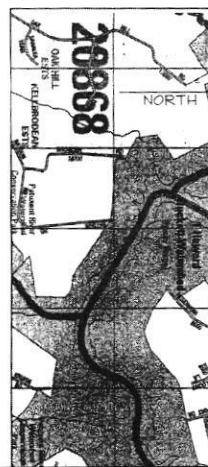


Percent
Signed 12/2/2013

Perc Test (Passed)

GENERAL NOTES

1. Subject property zoned RR-DEO per 02/02/04 Comprehensive Zoning Plan.
2. Area of properties = 40,182 SF (Lot 12), 40,071 SF (Lot 10)
3. Private utility, and septic will be used within this site.
4. [REDACTED] This area designates a private sewage easement of at least 10,000 square feet (or 10,000 square feet per lot for shared open fields associated with a shared sewage individual sewage disposal (COWARD 26.04.03). Improvements of any nature in this area are restricted until public sewage is available. These easements shall become null and void upon connection to a public sewage system. The County Health Officer shall have the authority to grant adjustments to the private sewage easement. Reclamation of a portion of the private sewage easement shall not be required.
5. Existing wells, septic systems, and sewage disposal areas within 100' of the property and those wells within 200' down gradient of existing or proposed septic systems or sewage disposal areas have been shown.
6. Howard County Soil Map #45.
7. The proposed septic fields shown are located on soil type GqB.
8. Wells on lots 10 & 12 are existing.
9. Property address: 12405 (Lot 12) & 12347 (Lot 10) Kondrup Drive
10. The lots shown herein comply with the minimum ownership, width and lot area as required by the Maryland Department of the Environment.
11. Existing 2-foot contour topography is based on a Field Run Topographic Survey by FSH Associates in March 2013 (Lot 12), and June 2013 (Lot 10).
12. Number of existing buildable lots: 2
13. Percolation tests took place at the site.
14. All Perc Test points have been field staked by FSH Associates in September 2013.
15. Any changes to private sewage disposal areas require a revised percolation certification plan.
16. An advanced pre-treatment system which utilizes Best available technology to pretreat sewage effluent shall be located on the septic system for lot 10 and 12. A supplemental plan with all necessary details for installation of the system will be required prior to release of building permits and septic system installation permits.

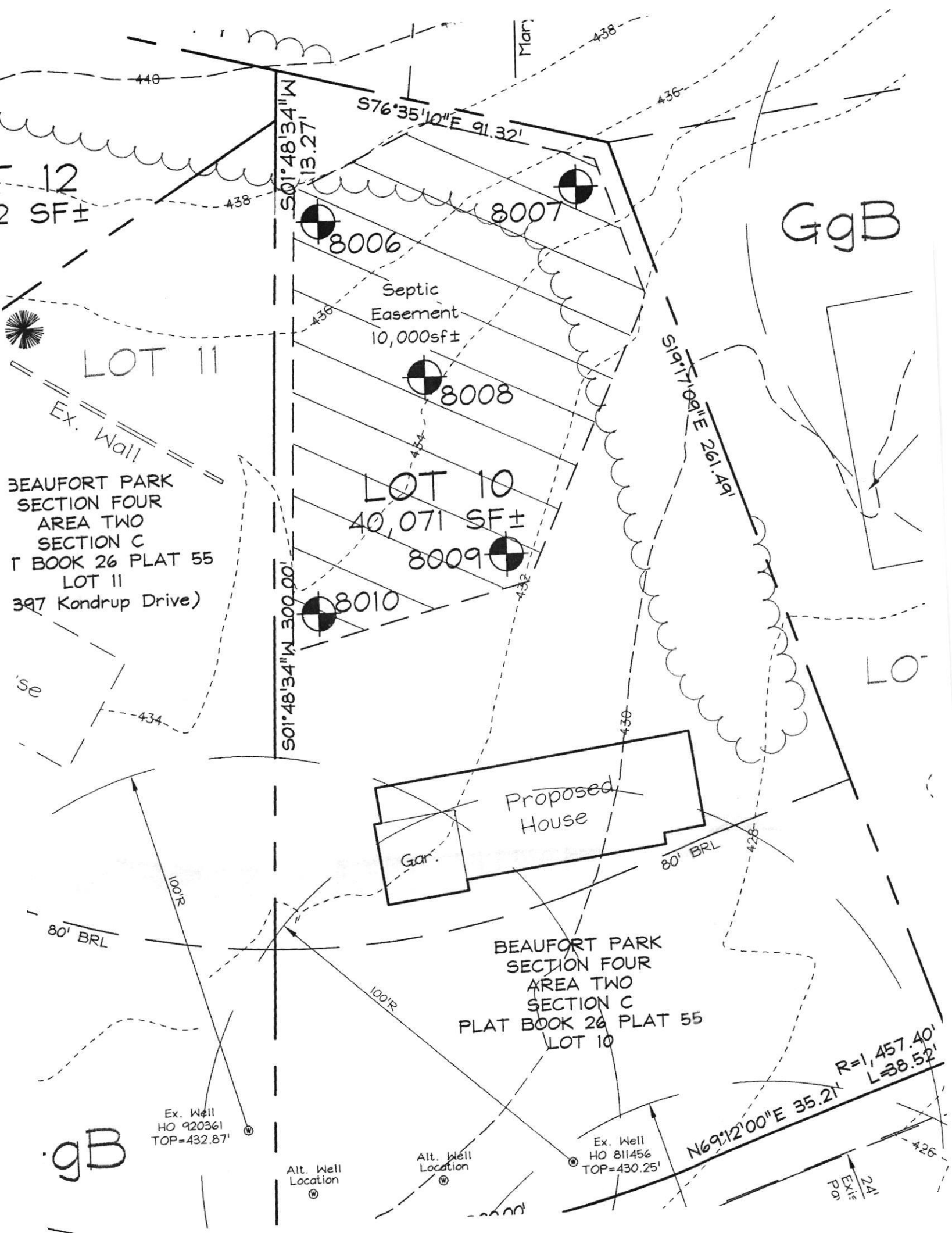


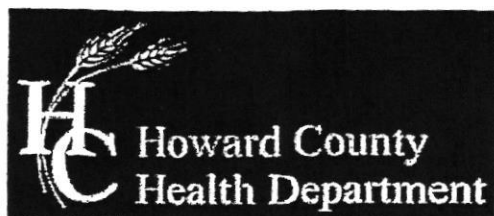
VICINITY MAP
SCALE=200'

PERC. CHART

PERC. CHART			
LOT 12		LOT 10	
Number	Elevation	Number	Elevation
8001	429.84	8006	437.26
8002	434.96	8007	435.43
8003	430.57	8008	434.36
8004	433.15	8009	432.52
8005	438.54	8010	433.87

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.





Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 12397 Kondrup Drive

Subdivision: Beaufort Park Lot: 10

Initial system:	Application rate: <u>1.2</u>	Effective area beginning depth: <u>4.5</u>	Bottom maximum depth: <u>7'</u>
1 st Replacement:	Application rate: <u>1.2</u>	Effective area beginning depth: <u>4.5</u>	Bottom maximum depth: <u>7'</u>
2 nd Replacement:	Application rate: <u>1.2</u>	Effective area beginning depth: <u>4.5</u>	Bottom maximum depth: <u>7'</u>

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- Trenches must be located to provide room for 3 systems in the disposal area
- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Tank and trenches must be placed as shallow as possible while maintaining 2% fall in pipe from house and at least 18" cover over trenches. If 2% fall from house is not possible, the minimum allowable fall is 1%.
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is $2D + W$ up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

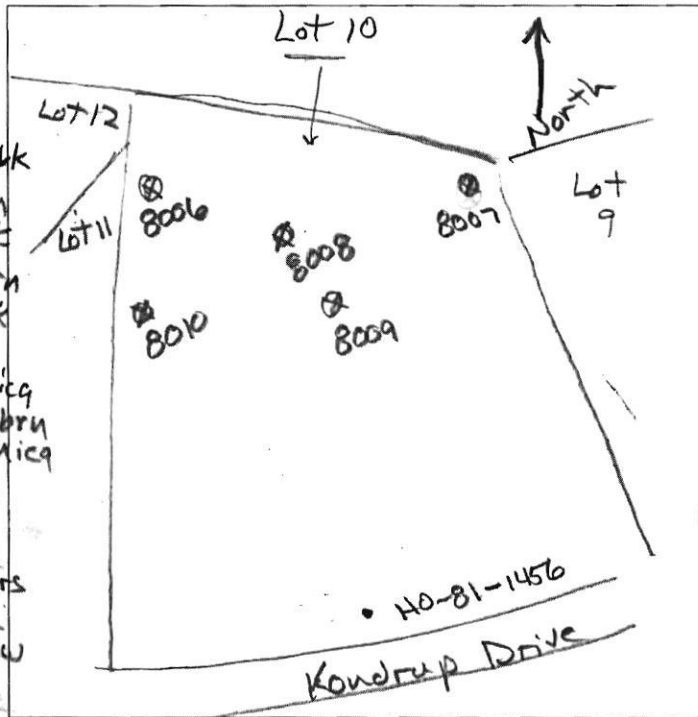
Additional requirements:

BAT unit required; Pump & Pump Tank
LPT design for drain field

Approved: R Bricker

Date: 4/29/21

ATP
8009
 0.2' grey-brn sl, 2fg
 0.8' brn sl, 1fsbk
 2.3' yel-red & brn Loam, 3msbk
 4' yel-red & brn Loam, 2fsbk
 5' red fs
 5' fm few mica
 7' yel-red & brn sl. many mica
 7' few stones
 12' red ls
 12' many mica
 12' few channers
 12' blk lfs
 13' red & pale yellow mixed in



8008
 0.9' dk brn sl 1fg
 0.9' brn sl, 2fsbk
 3.5' yel-brn sl 2fsbk to 1fsbk
 7' brn & red sts
 7' red ls many mica
 7.8' pale red ls
 11' yel-brn & pale yellow ls
 11' dk grey layer
 12' pale yellow
 12' lfs, common coarse mica

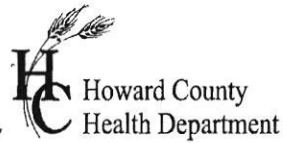
8007
 0.9' dk brn sl
 0.9' brn sl
 2.5' brn sts 1msbk
 5' red fs, fm dense
 5' interlayered yel-red ls
 8.5' yel-brn lfs many mica
 11' dk grey
 11' lfs

8010
 0.8' dk brn sl, 2fg
 0.8' brn grsl, 2fsbk
 1.9' red L, 3fsbk
 3.3' red L, 2msbk
 4' brn L, 1msbk
 5' brn & red fs, fm many mica
 5' red & brn ls micaceous
 10' blk & yel-brn lfs, interlayered
 12' brn & pale yellow chls, many mica

8006
 0.9' dk brn sl 2fg
 0.9' brn sl 1fsbk
 2.8' red sl 3mpl many mica
 4' red chls dense, many mica
 6.7' pale yellow lfs, common mica
 12' red chls 1mpl many mica

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9/21/13	8009	12'	Visual		5'-8" 1.2 gpd/cu ²		P
9/21/13	8010	12'	Visual		5'-8" 1.2 gpd/cu ²		P
9/24/13	8008	6.5' 11'	2:42	2:45	2:50	5	P
9/24/13	8007	5.5' 11'	2:43	2:45	2:48	3	P
9/24/13	8006	12'	Visual		4'-8" 1.2 gpd/cu ²		P

REMARKS
 SANITARIAN R. Bricker BACKHOLE Ronnie Heaps & Kyle OTHERS
 TEST HOLES USED IN SDA _____ AVG. PERC TIME 4 SQ. FT/BR 125
 TRENCH WIDTH 2 INLET DEPTH 3 or 4 MAX. BOT DEPTH 7 EFFECTIVE S/W 3 or 4 max



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____ A/P _____

AGENCY REVIEW: _____ DATE _____

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 ONE:

- ☐ CREATE NEW LOT(S)
☐ BUILD ON AN EXISTING LOT IN A SUBDIVISION
☐ BUILD ON AN EXISTING PARCEL OF RECORD

CHECK AS NEEDED:

- ☐ NEW STRUCTURE(S)
☐ ADDITION TO AN EXISTING STRUCTURE
☐ REPLACE AN EXISTING STRUCTURE

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) Robert A. Daffer n98rd@aol.com

DAYTIME PHONE 410-792-0616 CELL 443-831-6201 FAX _____

MAILING ADDRESS PO Box 569 Fulton, Md. 20759
STREET CITY/TOWN STATE ZIP

APPLICANT Same as above - owner

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME Beavert Park Section 4 Area 2 "C" LOT NO. 10

PROPERTY ADDRESS _____
STREET TOWN/POST OFFICE

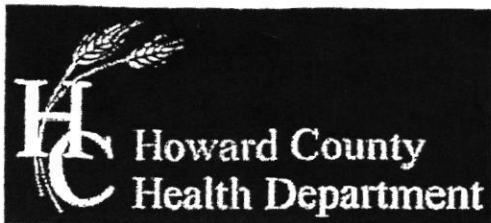
TAX MAP PAGE(S) _____ GRID _____ PARCEL(S) _____ PROPOSED LOT SIZE _____

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.

Robert A. Daffer
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



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Maura J. Rossman, M.D., Health Officer

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 12397 Kondrup Drive

Subdivision: Beaufort Park Lot: 10

Initial system: Application rate: 1.2 Effective area beginning depth: 4.5 Bottom maximum depth: 7
1st Replacement: Application rate: 1.2 Effective area beginning depth: 4.5 Bottom maximum depth: 7
2nd Replacement: Application rate: 1.2 Effective area beginning depth: 4.5 Bottom maximum depth: 7

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- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

*BAT requirement rescinded.
LPD drainfield design is optional.
Pump and Pump Tank are needed.*

Approved: BBrieker

Date: 4/30/2021

8-15-86

Beaufort Park LOT 10 BIK C Sec. 4 KONDROP CT.

MR. CRACKEN CALLED AND NOTIFIED THAT THE WELL
WILL BE ACCEPTABLE AT A POINT NOT MORE THAN 25 FE
FROM THE ROAD AND EXACTLY $\frac{1}{2}$ WAY DOWN FRONT
LOT LINE (MIDDLE OF FRONT) TO AVOID SS ON EITHER
SIDE. PERC FIELD TO BE ADJUSTED UP HILL TO MAINTAIN 100'
FROM WELL AND ACCESSABLE TO HOUSE.

S. Abel

9-21-88
CATE-AM

HOWARD COUNTY HEALTH DEPARTMENT
Bureau of Environmental Health
3525-H Ellicott Mills Drive
Ellicott City, MD 21043
461-9933

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

New Installation
Replacement ☒

Receipt #

Date

9-21-88

Name of Installer

George SATERDAE

Telephone

License Number

40

Certified Well Pump Installer

Well Driller

☒

Registered Plumber

Name of Property Owner

MCCRACKEN

Telephone

Subdivision

Beaumont Park

Lot #

10

Well Tag #

140-81-1456

Site Address

Kendall Dr.

Pump

1. Type

a. Deep well jet

b. Shallow well jet

c. Submersible

2. Make

3. Model #

4. Capacity _____ GPM

5. Pump exceeds well capacity Yes _____ No _____

6. If Yes, is low pressure cutoff switch installed? Yes _____ No _____

7. What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors _____ Cable guards _____ Other _____

Motor

1. Horsepower

2. RPM

3. Voltage

a. 110

b. 220

Pitless Adapter

1. Make

2. Model #

3. Depth

Tank

1. Capacity

2. Pressure relief valve?

Piping

1. Type

2. Size

3. NSF and/or BOCA Code approved

4. Depth of supply line

Well data

1. Depth _____ ft.

2. Yield _____ GPM

3. Static water level _____ ft.

4. Will water supply be disinfected by installer?

I understand that it is my responsibility to notify the Howard County Health Department when the installation is ready for inspection (otherwise this permit is null and void).

All information given above is true to the best of my knowledge.

Signature of Applicant:

Date:

Note: A sticker indicating approval/status of the installation will be placed on the well casing at the time of the inspection.

APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES

P.O. BOX 476 ELLICOTT, MARYLAND 21043
TELEPHONE: 992-2330

A 30885

P _____

DISTRICT

5th

DATE

8/27/80

VOID

WELL HO-81-1456
DRILLED IN CONFLICT
W/ THIS SEPTIC AREA -
WELL SEWAGES OCCUPIED
LOT 3 - P39093

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

WHICH WAS
OUT-OF-WATER

PROPERTY OWNER

James V. Riffle

ADDRESS

8409 Montpelier Dr. Laurel, Md.
20811

PHONE

776-4324

PROPERTY LOCATION

SUBDIVISION

Beaufort Park

LOT NO.

10 BLK. C. sec. 4 AREA 2

ROAD AND DESCRIPTION

Kondrup Drive

SIZE OF LOT

40,070 sq. ft.

TYPE BLDG.

2 story 4 Bdrm.

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE.

ANY CIRCUMSTANCES.

SIGNATURE OF APPLICANT

James V. Riffle

APPROVED BY

FOR

DATE

REJECTED BY

FOR

DATE

HOLD PENDING FURTHER TESTS

DATE

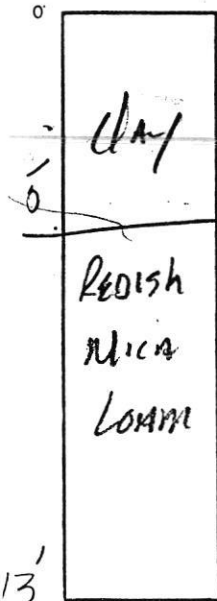
REASONS FOR REJECTION OR HOLDING

9-3-80 Hold for discussion with supervisor SK/

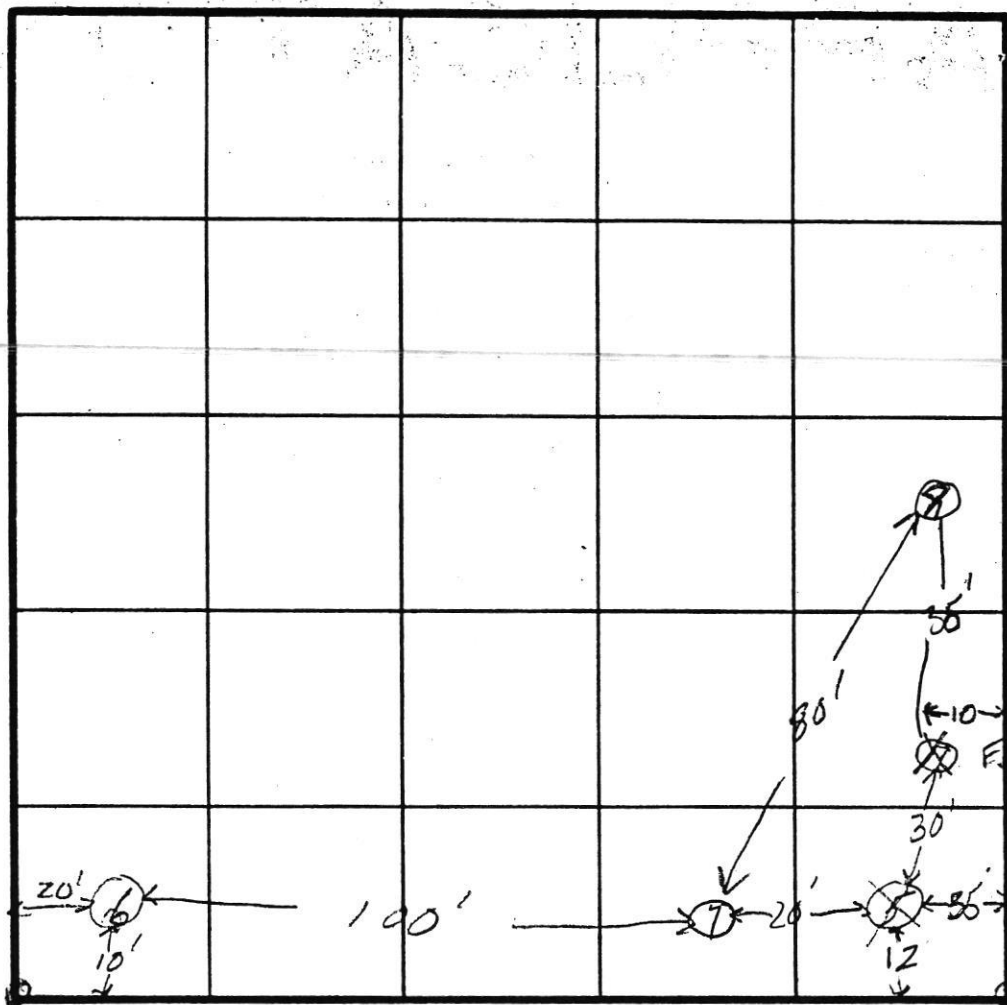
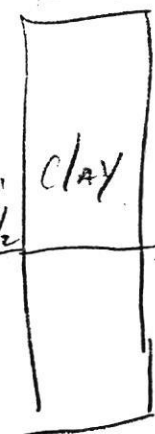
10-80 Move Sewage Permit 15' Towards front lot line as per
discussion with FF. SK/

THIS IS NOT A PERMIT

6 7
SOIL PROFILE



5 8



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

28
7029
FIELD
SHEET

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
9-3-80	5s	5'	10:01	X4	XY	XY	FAIL 1/2" 30min
	5D	14'	10:01	10:07	10:07	10:16	9min
	6s	5'	10:22	10:28	10:28	10:48	20min
	6D	13'	10:22	10:26	10:26	10:41	15min
	7s	5'	11:31	11:36	11:36	11:47	11min
	7D	13'	11:30	11:32	11:32	11:35	3min
✓	8	Clay to 7 1/2'	Did not PERK				

REMARKS

OPEN FIELD LOWER SLIKES FOUND

TYPE OF SOIL

HEAVY CLAY TO 7 1/2' IN RIGHT CORNER OF LOT

SKIP + BOB OF F/OK

APPLICATION

SEWAGE DISPOSAL TESTING

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

ELLICOTT CITY

DISTRICT 5th

DATE 11/29/72

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TESTS IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER Anne K. Gray and Susie Kondrup

ADDRESS Beaufort Drive, Fulton, Md.

Any questions call Mr. C. J.

PHONE Beall, 776-7075

PROPERTY LOCATION:

SUBDIVISION Beaufort Park

LOT NO. 11, Blk. C, Sec. 4

ROAD AND DESCRIPTION Kondrup Drive

OCCUPANT _____

PHONE _____

PERSON TO CONSTRUCT SYSTEM _____

ADDRESS _____

PHONE _____

SIZE OF LOT 40,000 sq. ft.

TYPE BLDG. 3 or 4 bedrooms

NUMBER OF BEDROOMS

IF NOT SINGLE RESIDENCE DESCRIBE _____

SIGNATURE OF APPLICANT /s/ Anne K. Gray

APPROVED BY _____

FOR _____

(KIND OF SYSTEM)

DATE _____

REJECTED BY _____

FOR _____

(KIND OF SYSTEM)

DATE _____

HOLD PENDING FURTHER TESTS _____

DATE _____

REASONS FOR REJECTION OR HOLDING _____

THIS IS NOT A PERMIT

