



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

523837
AP 523273

AGENCY REVIEW: _____

DATE 9/8/2005

05-436605 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 4 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) PETER G BONNETT & IRIS J BONNETT

DAYTIME PHONE 301 854 1292 CELL 301 674 1428 FAX 301 854 0700

MAILING ADDRESS 13515 HIGHLAND ROAD CLARKSVILLE MD 21029
STREET CITY/TOWN STATE ZIP

APPLICANT RONALD A. RICKS

DAYTIME PHONE 301 854 0565 CELL 410-627-5038 FAX 301-854-0922

MAILING ADDRESS 13509 NARROW LEAF COURT CLARKSVILLE MD 21029
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME LOT 10 1. 1034 A, PLAT BOOK 7, F 31 LOT NO. 10
WOOD RIDGE MSA C 2466-215J

PROPERTY ADDRESS 13500 BRIGHTON DAM ROAD CLARKSVILLE
STREET TOWN/POST OFFICE

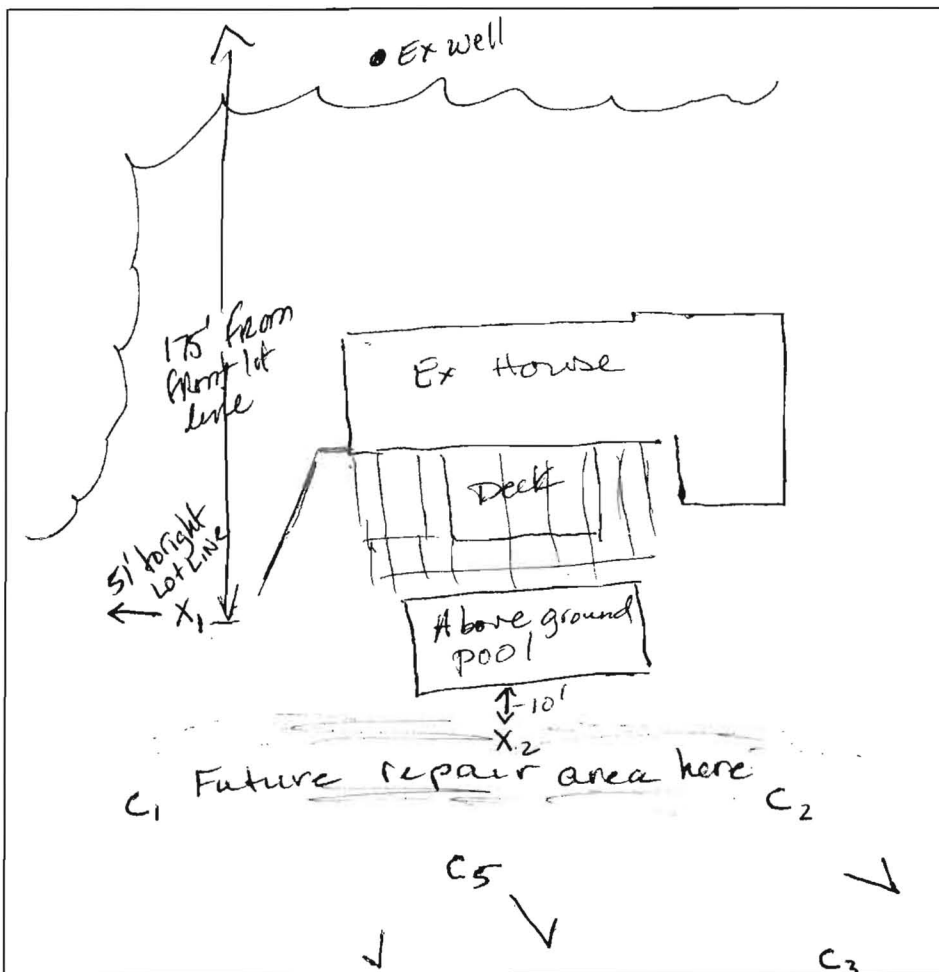
TAX MAP PAGE(S) 34 GRID 8 PARCEL(S) 430 PROPOSED LOT SIZE 1.1 ACRE

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. Ronald A. Ricks
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
C5/C3
excessive
Flagstone
2' to 4½'
refusal
v. micac.



X1
Str brn
Loam
2½-3'
brn
LS
@ 4'
platy struct
yellow loam
to 5'
SANDY
Loam
Rock
15-20%
12' Hard Bot.

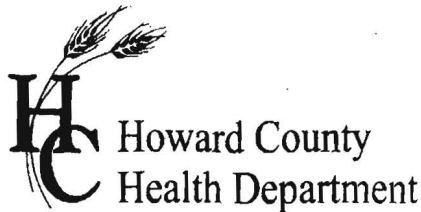
X2
Str brn
hvy L
pockets
of CL
3'
brn
Loam
pockets
of
Flagstone
from 5' to 7'
testing
@ 5½'
9' Bottom

C1
Org brn,
brn
CL
2½'
Brown
platy loam
w/ 1% Si
tested tx
zone @
6'
8' refusal

C2
DK brn
hvy L
3'
platy
micac.
SL-L
Rx -35/45%
test tx
zone
@ 6'
refusal
@ 9'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
1/27/06	C1	6' Tx zone	5 gallons 10:17 ³⁰	10:25	+	okay for shallow trench	P
	C2	6½' Tx zone	5 gallons 10:37	10:44			P
	X1	visual - searching for dry well NOT found -	SEE P profile				OK
	X2	5½'	10" auger perc hole 11:23 ³⁰	11:26 ³⁰	11:31	4+	OK
Abrupt A in A to B horizon							
OWNER UNDERSTAND NO INGROUND pool permitted - need soils for future septic repair (2 nd repair system)							

REMARKS Holes C1, C5, C3, C2 per plan
SANITARIAN Race BACKHOE S. Cornell OTHERS owner
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR 180
TRENCH WIDTH 3 INLET DEPTH 2 MAX. BOT DEPTH 4 EFFECTIVE SW. Ø
SHALLOW SYSTEMS ONLY Waria Replacement
SYSTEM FURTHER EVALUATED



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) 1/27/06 TEST TIME _____ 523836
AVP 523274

AGENCY REVIEW: Existing LOT of record since DATE 9/8/05
June, 1959 Per recorded final record plat. KN
OS-370620 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:
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- CHECK AS NEEDED:
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- 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)
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PROPERTY OWNER(S) PETER G BONNETT, & IRIS J BONNETT

DAYTIME PHONE 301 854 1292 CELL 301 674 1428 FAX 301 854 0700

MAILING ADDRESS 13515 HIGHLAND ROAD CLARKSVILLE MD 21029
STREET CITY/TOWN STATE ZIP

APPLICANT RONALD A RICKS

DAYTIME PHONE 301 854 0565 CELL 410 627 5038 FAX 301 854 0922

MAILING ADDRESS 13509 NARROW LEAF COURT CLARKSVILLE MD 21029
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME 13515 HIGHLAND RD LOT NO. 9

PROPERTY ADDRESS LOT 9 1.6944A
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 34 GRID 8 PARCEL(S) 181 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.

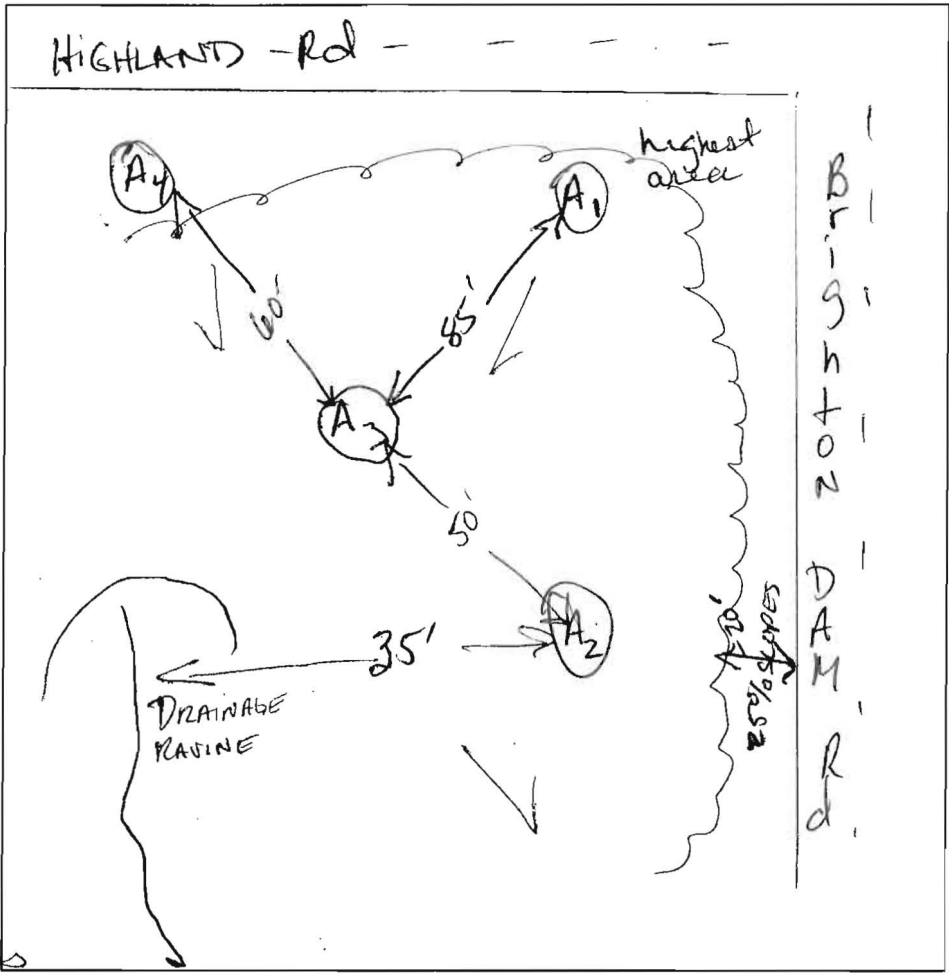
TEST RESULTS WILL BE MAILED TO APPLICANT. [Signature]
SIGNATURE OF APPLICANT

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 **A₁**
 org brn CL
 4'
 transition layer
 SCL (org brn)
 5'
 tightly packed med gr. lt brn SAND
 Rx < 5%
 ↓
 15' Bottom

A₂
 y brn S loam
 4'
 wk brn med gr SAND
 decomposed greens
 St pro lite
 V. WK SAND 15%
 8' Refusal

A₃ **A₄**
 org brn hvy L
 4'
 Abrupt Δ to SL packets in S matrix
 TRACE Rock
 10'± med gr SAND
 14' Bottom



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
1/27/06	A ₁ aka C ₂ or plan	5 1/2'	1:13	1:15	1:17	2+	P
	A ₂	6 1/2' Tx zone	2:13 ³⁴	2:14 ²⁵	2:16 ⁺	2+	P
	A ₃	4 1/2'	2:00	2:02 ³⁰	2:06 ⁵³	4+	P
	A ₄	SEE A ₃	Visual due to time				P

REMARKS Well drained soils
 SANITARIAN Kacie BACKHOE S. Carroll OTHERS owner
 TEST HOLES USED IN SDA A₁ - A₄ AVG. PERC TIME 2-3 min SQ. FT/BR 180

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____
 Elevation - AREA A₄ - A₁ to A₃ inlet @ 4' bottom @ 10' 6' sidewalk
A₃ to A₄ inlet @ 2' bottom @ 4' bottom area only



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PROPERTY OWNER(S) Peter G. BONNETT & Iris J Bonnett

DAYTIME PHONE 301-854-1292 CELL 301-674-1428 FAX 301-854-0700

MAILING ADDRESS 13515 Highland Rd
STREET CITY/TOWN STATE ZIP

APPLICANT Ronald Ricks

DAYTIME PHONE 301-854-0565 CELL 410-627-5038 FAX 301-854-0922

MAILING ADDRESS 13509 Narrow Leaf Ct.
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME WOODRIDGE LOT NO. 10

PROPERTY ADDRESS _____
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 34 GRID 8 PARCEL(S) 101 PROPOSED LOT SIZE _____

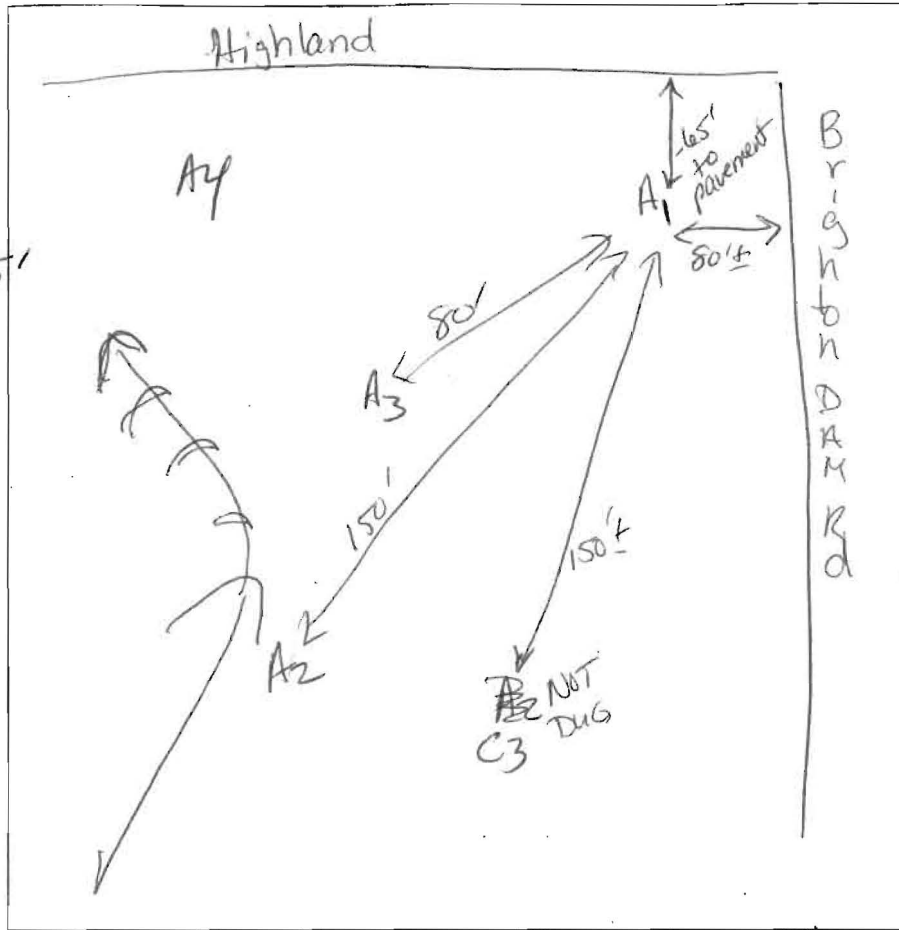
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HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

AP

(A1) **(A4)**
 organic
 nuyl 11"
 org brn
 CL 4-5'
 Hbrn
 w.c.s.g.
 compacted
 mdgr.
 SAND
 TRACE
 Rx
 Bottom 15'



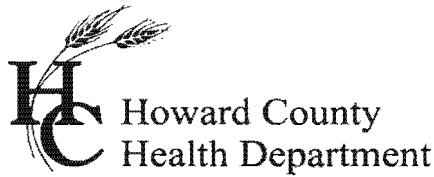
(A2)
 ybrn
 SL 4 1/2'
 wkbrn
 med gr
 SAND
 decomp
 grass
 V-wk
 saprolite
 15%
 Refusal 8'

(A3)
 nuyl 2 1/2'
 org brn
 CL 4'
 lt brn
 Medgr.
 SAND
 Rock < 10%
 Bottom 14'

~ 8" hole

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
1/27/06	A1	5 1/2'	1:13	1:15	1:17	2	P
	A2	DUG TO SEE SEVERITY OF SOIL NEAR swale					MP
	Tested TR ZONE	6'3"	1:34	2:00	8 gellows		P
		5 1/2'	2:13 ³⁹	2:14 ²⁵	2:16 ⁺	2	P
	A3	4 1/2'	2:00	2:02 ³⁰	2:00 ⁵³	4	P

REMARKS Ex lot of record Post hole digger - sized holes
 SANITARIAN KACIE BACKHOE S. Carroll OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH 2 INLET DEPTH 4 MAX. BOT DEPTH 8 1/2 - 9' EFFECTIVE SW 4 1/2 - 5'



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 30, 2006

Mr. & Mrs. Bonnett
13515 Highland Road
Clarksville, MD 21029

RE: **Percolation Test Results**
Application: A523273 & A523837
Property ID: 13515 Highland Road
Tax Map: 34, Parcel: 181
&
13500 Brighton Dam Road
Tax Map: 34, Parcel: 430

Dear Mr. & Mrs. Bonnett;

Percolation testing was conducted for both referenced properties on January 27, 2006. Although the designation of 10,000 square feet does not apply to either property due to the final record plat dated June, 1959, as you are aware, identifying areas as close to 10,000 square feet is most favorable. Our office would like to applaud your assistance in allowing us to analyze the soils on your property as to maximize safety for the proposed well sites on the adjacent parcel. For your convenience, a copy of the percolation test results is enclosed.

A **licensed surveyor** MUST submit a Percolation Certification Plan showing the following information and changes to the percolation test plan:

- actual locations and elevations of all excavated test holes with hole numbers matching sanitarian notes
- identify percolation test holes as passed or failed
- overlay the plan with soil map
- calculate septic reserve area's total square footage after adjustment to SDA
- topography with 2' contours,
- propose house sites with a driveway location (s)
- propose three acceptable well locations from septic disposal area
- identify slopes if greater than 24.99% and ensure septic area 25' away from them
- show the predominate swale for parcel 430
- field locate actual location of all existing wells and septic systems within 100 feet of all property boundaries
- include in General Notes the zoning of the property and note that lot lines will remain as documented on the final record plat dated June, 1959.
- Add in the General Notes the drilled proposed well site will have grout surpassing the minimum state requirement per the Approving Authority's discretion

For clarification, the proposed building lot must have at minimum, enough room for two systems; however, the area identified in the field may support three complete systems. Trench design criteria are found on the bottom of the percolation test notes. If, however, three systems cannot be established in the identified septic area, pretreatment will be required. If further help is needed with the trench layout, do not hesitate to call me directly at 410-313-1775. Thank you for your time and cooperation.

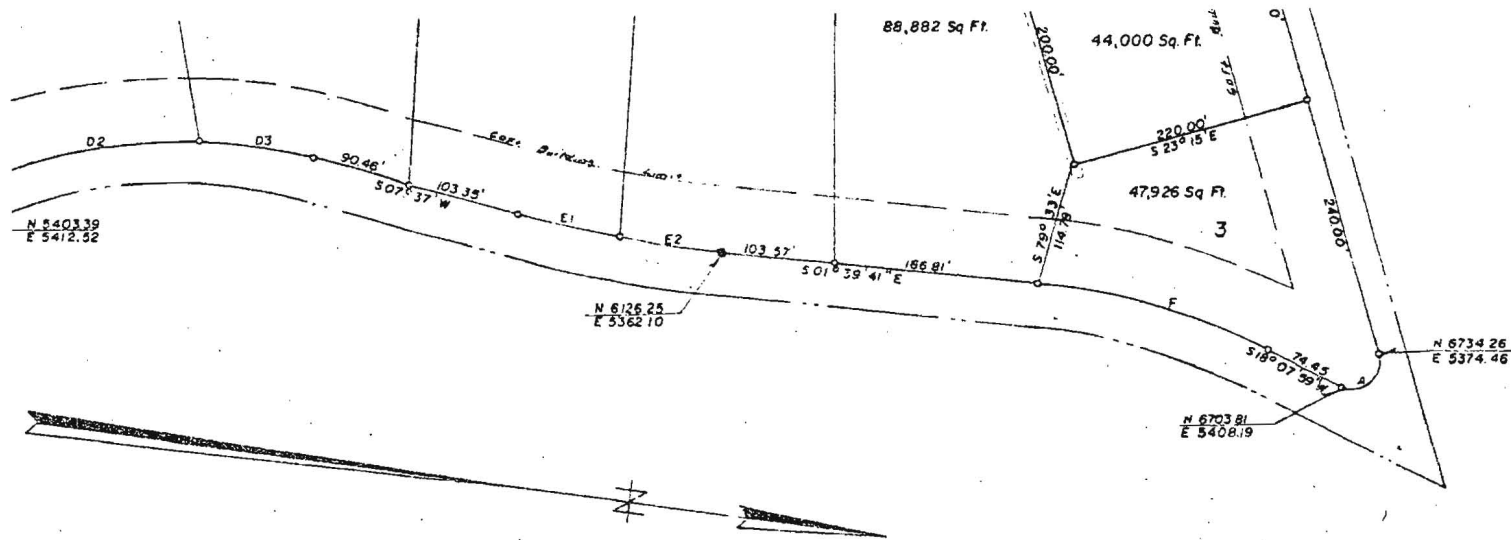
Sincerely,

A handwritten signature in cursive script that reads "Kacie Noonan".

Kacie Noonan, R.S.
Water and Sewerage Program

Enclosures

Cc: Ron Ricks/ Builder



MAP OF
WOOD RIDGE
FIFTH ELECTION DISTRICT OF HOWARD COUNTY
HIGHLAND, MARYLAND
SCALE: 1"=100' June, 1959

Coordinates System - Assumed
Area in Lots 16.250 Acres
Area in Road 2.509 Acres
Total 18.759

OWNERS DEDICATION

We, G. Rust Conby and Elizabeth D. Conby his wife, owners of the property shown and described hereon, adopt this plan of Subdivision.

Witness our hands and seals this 18th day of June 1959

G. Rust Conby
G. Rust Conby

Elizabeth D. Conby
Elizabeth D. Conby

ENGINEERS CERTIFICATE

I, hereby certify that the plan shown hereon is correct; that it is a subdivision of the land which by deed dated December 28, 1956 and recorded among the Land Records of Howard County in Liber No. 292, Folia 424 etc. was granted and conveyed by Edith Clark, unmarried to G. Rust Conby and Elizabeth D. Conby his wife, and that iron pipes marked thus \odot and concrete monuments marked thus \bullet are in place as shown hereon.

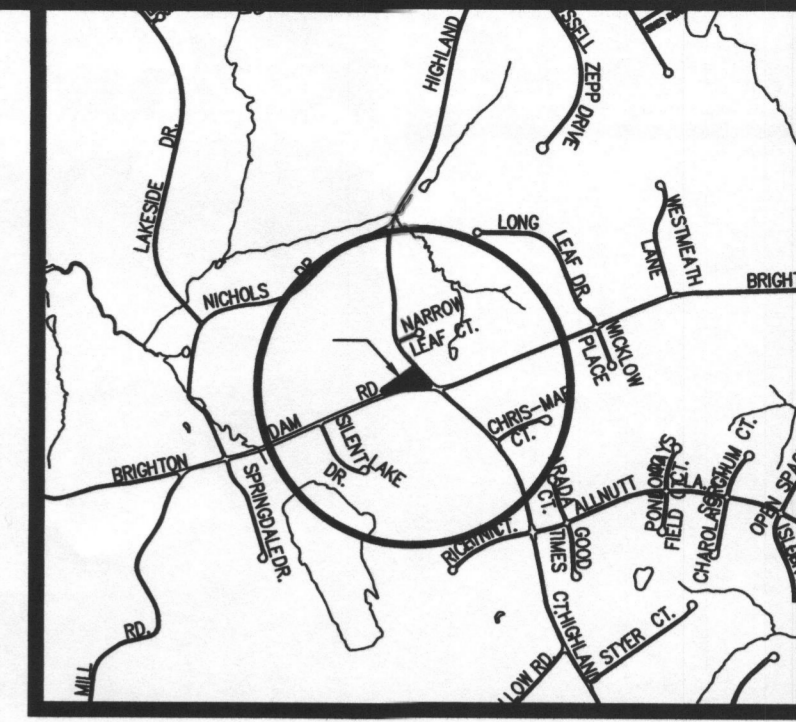
I further certify that the requirements of Section 72A to 72D of the Annotated Code of Maryland (Title Clerk of Court - Subtitle Clerk of Circuit Court) as far as they relate to the marking of this plot and the setting of markers have been complied with.

Claude M. Skinner Jr.
Claude M. Skinner Jr. Reg. Engineer & Land Surveyor No. 2237

JUN 18 1959

463

THE SEPTIC TRENCH DESIGN FOR LOT 9 IS AS FOLLOWS:
 INLET OF PIPE AT 2', BOTTOM OF TRENCH AT 4', TRENCH WIDTH 3' WIDE, TRENCHES 9' EDGE TO EDGE. PERCOLATION TEST RATE SUPPORTS 180 CUBIC FEET OF ADSORPTION AREA PER BEDROOM.



VICINITY MAP
 SCALE 1:2000

LEGEND

- ⊙ POWER POLE
- × GUY ANCHOR
- ROAD SIGN
- APPROX. LOCATION OF OLD PERC TEST OVERHEAD WIRE
- ⊗ SEPTIC CLEANOUT

NOTE:
 ELEVATIONS SHOWN HEREON ARE TIED TO HOWARD COUNTY NGVD 29 DATUM.

- ⊙ PERC HOLES LOCATED AND TESTED
- ⊙ PROPOSED LOCATION OF PERC HOLES
- IF DENOTES IRON PIPE FOUND
- EXISTING CONTOURS
- W1 PROPOSED WELL LOCATIONS
- EX. TREE LINE
- ▨ STEEP SLOPE (MORE THAN 25%)

SOILS LEGEND

SYMBOL	NAME/DESCRIPTION	TYPE
ChB2	Chester silt loam, 3 to 8% slopes, moderately eroded	B
GIC2	Glenelg loam, 8 to 15% slopes, moderately eroded	B
MID2	Manor loam, 15 to 25% slopes, moderately eroded	B

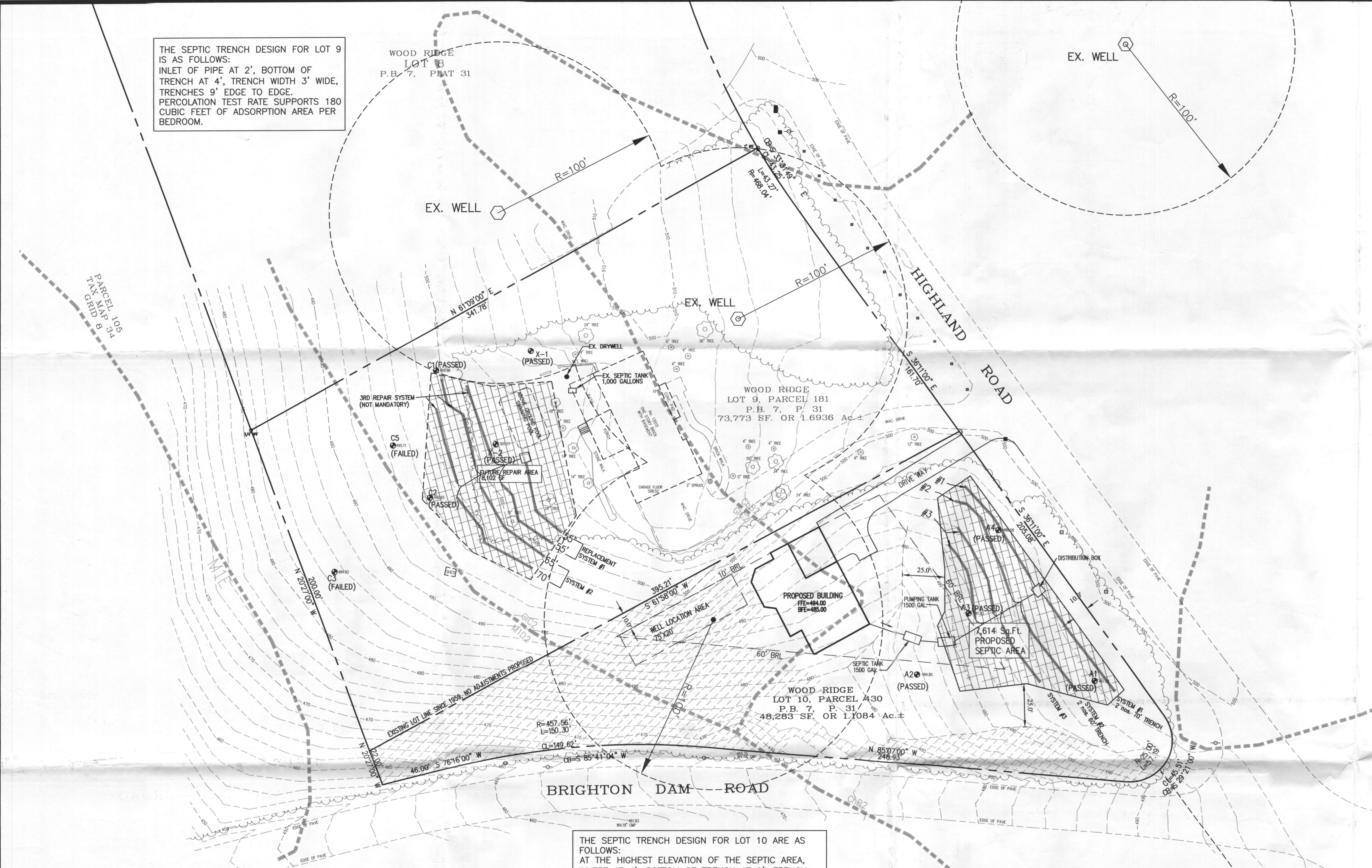
APPROVED FOR PUBLIC WATER AND PRIVATE SEWAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT.
Robert J. Walter 6/12/06
 COUNTY HEALTH OFFICER DATE

- GENERAL NOTES:
- This site is zoned RC-DEO per the 10-18-93 Comprehensive Zoning Plan.
 - BRL denotes Building Restriction Line.
 - Driveway shall be provided per the following minimum requirements:
 - Width-12' (14' serving more than one residence);
 - Surface-6" of compacted crusher run base w/tar and chip coating (1-1/2" min.);
 - Geometry-Max. 15% grade, max. 10% grade change and min. 45' turning radius;
 - Structures (culverts/bridges)-capable of supporting 25 gross tons (H25 loading);
 - Drainage Elements-capable of safely passing 100-year flood with no more than 1 foot depth over driveway surface;
 - Maintenance-sufficient to insure all weather use.
 - Topography shown here is based on field run topo performed by KCE Engineering, Inc. in November, 2005.
 - Boundary survey was performed by KCE Engineering, Inc. in November, 2005.
 - The zoning of the property and lot lines will remain as documented on the final record plat dated June, 1959.
 - The drilled proposed well site will have a grout surpassing the minimum state requirement per the Approving Authority's discretion.
 - The perc performed on Lot 9 was not required, but was done due to concern about future performance of the existing septic system.
 - All existing wells and septic within 100' of property have been shown.
 - Ex. septic system for Lot 9 was inspected on January 30th, 2006 and approved for continued use by the APPROVING AUTHORITY.
 - The lots shown hereon comply with the minimum lot area and ownership width as required by Maryland State Department of the Environment.

THIS AREA DESIGNATES A PRIVATE EASEMENT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE. IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS WILL BECOME NULL AND VOID UPON CONNECTION OF PUBLIC SEWAGE 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.

First Floor Elevation= 494.00
 Basement Elevation= 485.00
 Invert Out of the House= 483.0
 Invert In Septic Tank @2%= 482.6
 Invert Out Septic Tank= 482.4
 Invert In Pumping Station = 482.2
 Invert In Distribution Box= 495.50
 Existing Elevation @Septic Tank= 486.0
 Existing Elevation @Distribution Box= 497.50

THE SEPTIC TRENCH DESIGN FOR LOT 10 ARE AS FOLLOWS:
 AT THE HIGHEST ELEVATION OF THE SEPTIC AREA, INVERT AT 4', BOTTOM OF TRENCH AT 9', TRENCH WIDTH 2' WIDE. PLACE TRENCHES 7' EDGE TO EDGE.



KCE ENGINEERING, INC.
 EXECUTIVE CENTER
 3300 NORTH RIDGE ROAD, SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 PHONE (410) 203-9800 FAX (410) 203-9228

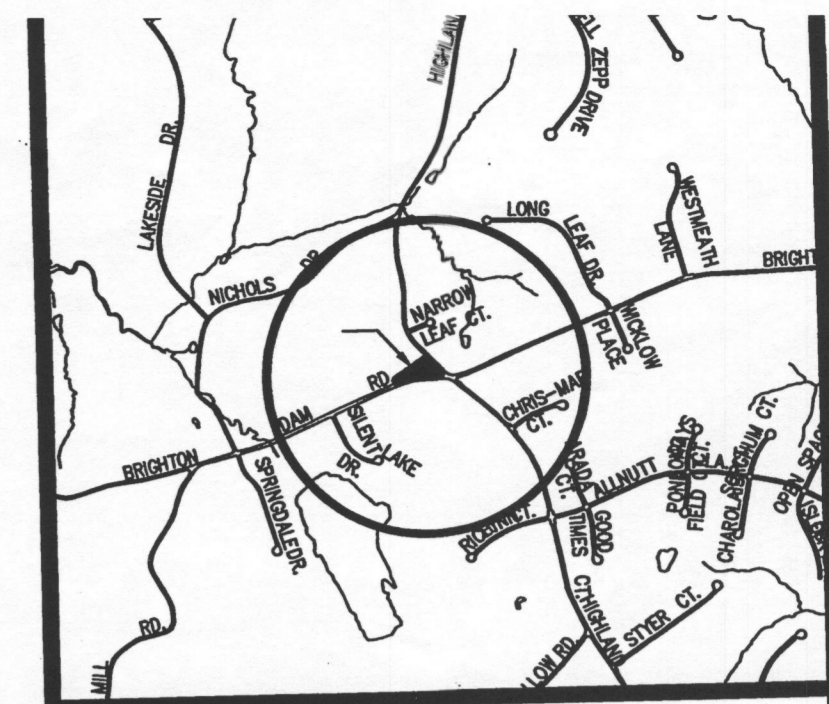
OWNER/DEVELOPER
 PETER BONNETT
 13515 HIGHLAND ROAD
 CLARKVILLE, MD-21029



PERC CERTIFICATE
 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.
 M.N. ROSHAN, L.S. No. 11049 DATE

PERCOLATION CERTIFICATION PLAT
 PETER BONNETT PROPERTY
 PARCELS 181, 430, TAX MAP 34, GRID 8
 LIBER 6496, FOLIO 417
 WOOD RIDGE, HOWARD COUNTY, MARYLAND

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VICINITY MAP
 SCALE 1:2000

LEGEND

- ⊙ POWER POLE
- × GUY ANCHOR
- ROAD SIGN
- ⊙ APPROX. LOCATION OF OLD PERC TEST
- OVERHEAD WIRE
- ⊗ SEPTIC CLEANOUT

NOTE:
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- EX. TREE LINE
- ▨ STEEP SLOPE (MORE THAN 25%)

SOILS LEGEND		
SYMBOL	NAME/DESCRIPTION	TYPE
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GIC2	Glennel loam, 8 to 15% slopes, moderately eroded	B
M1D2	Manor loam, 15 to 25% slopes, moderately eroded	B

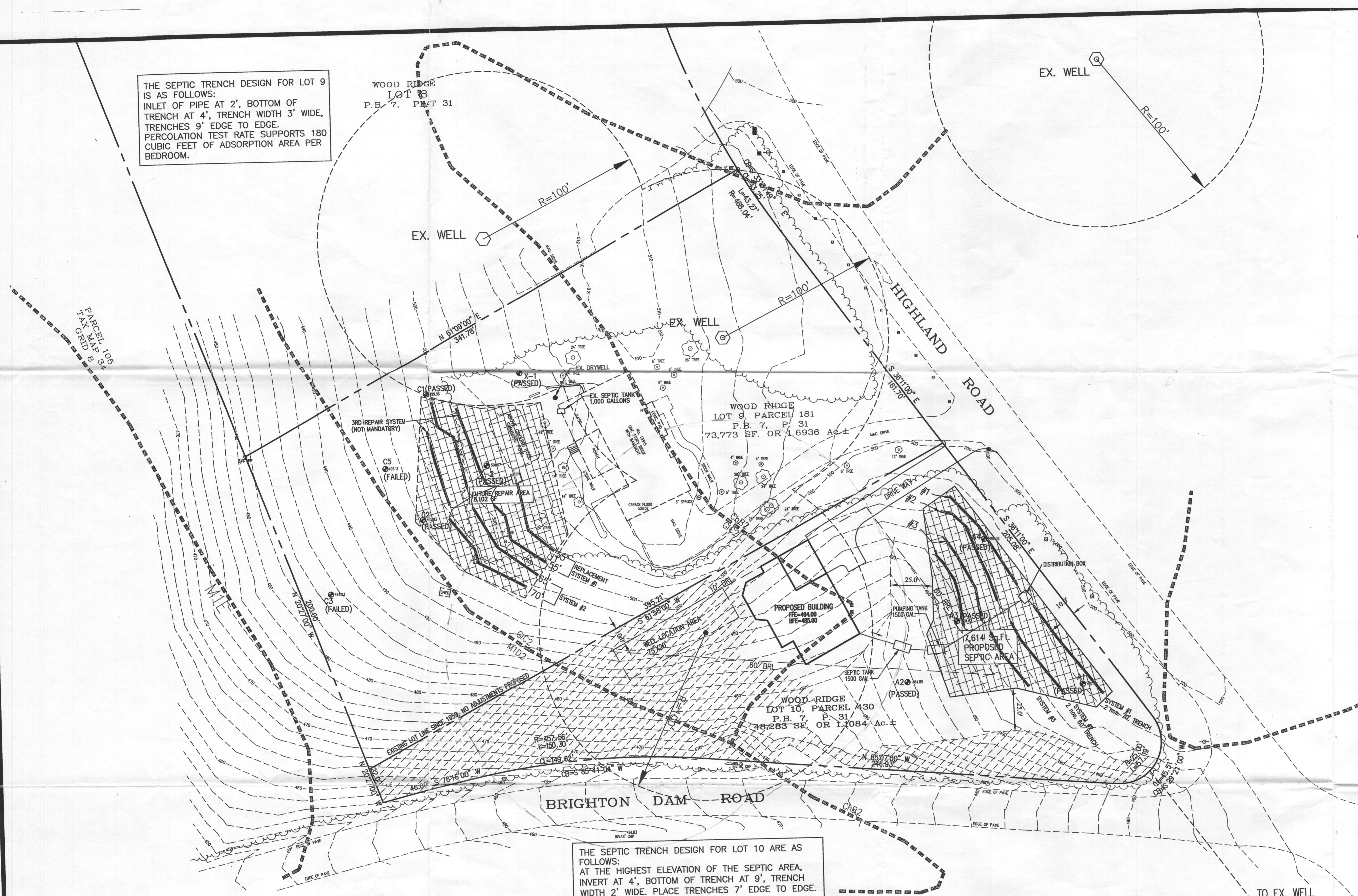
APPROVED FOR PUBLIC WATER AND PRIVATE SEWAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT.
Robert J. Walker 6/12/06
 COUNTY HEALTH OFFICER DATE

- GENERAL NOTES:
- This site is zoned RC-DEO per the 10-16-93 Comprehensive Zoning Plan.
 - BRL denotes Building Restriction Line.
 - Driveway shall be provided per the following minimum requirements:
 - Width-12' (14' serving more than one residence);
 - Surface-6" of compacted crusher run base w/tar and chip coating (1-1/2" min.);
 - Geometry-Max. 15% grade, max. 10% grade change and min. 45' turning radius;
 - Structures (culverts/bridges)-capable of supporting 25 gross tons (H25 loading);
 - Drainage Elements-capable of safely passing 100-year flood with no more than 1 foot depth over driveway surfaces;
 - Maintenance-sufficient to insure all weather use.
 - Topography shown here is based on field run topo performed by KCE Engineering, Inc. in November, 2005.
 - Boundary survey was performed by KCE Engineering, Inc. in November, 2005.
 - The zoning of the property and lot lines will remain as documented on the final record plat dated June, 1998.
 - The drilled proposed well site will have grout surpassing the minimum state requirement per the Approving Authority's discretion.
 - The perc performed on Lot 9 was not required, but was done due to concern about future performance of the existing septic system.
 - All existing wells and septic within 100' of property have been shown.
 - Ex. septic system for Lot 9 was inspected on January 30th, 2006 and approved for continued use by the APPROVING AUTHORITY.
 - The lots shown hereon comply with the minimum lot area and ownership width as required by Maryland State Department of the Environment.

First Floor Elevation= 494.00
 Basement Elevation= 485.00
 Invert Out of the House= 483.0
 Invert In Septic Tank @2% = 482.6
 Invert Out Septic Tank= 482.4
 Invert In Pumping Station = 482.2
 Invert In Distribution Box= 495.50
 Existing Elevation @Septic Tank= 486.0
 Existing Elevation @Distribution Box= 497.50

THIS AREA DESIGNATES A PRIVATE EASEMENT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS WILL BECOME NULL AND VOID UPON CONNECTION OF PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDED AT A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

PARCEL 105
 TAX MAP 34
 GRID 8



THE SEPTIC TRENCH DESIGN FOR LOT 10 ARE AS FOLLOWS:
 AT THE HIGHEST ELEVATION OF THE SEPTIC AREA, INVERT AT 4', BOTTOM OF TRENCH AT 9', TRENCH WIDTH 2' WIDE. PLACE TRENCHES 7' EDGE TO EDGE.



KCE ENGINEERING, INC.
 EXECUTIVE CENTER
 3300 NORTH RIDGE ROAD, SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 PHONE (410) 203-9800 FAX (410) 203-9228

OWNER/DEVELOPER
 PETER BONNETT
 13515 HIGHLAND ROAD
 CLARKVILLE, MD-21029



PERC CERTIFICATE
 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.
 M.N. ROSHAN, L.S. No. 11049 DATE

PERCOLATION CERTIFICATION PLAT
 PETER BONNETT PROPERTY
 PARCELS 181, 430, TAX MAP 34, GRID 8
 LIBER 6496, FOLIO 417
 WOOD RIDGE, HOWARD COUNTY, MARYLAND

SCALE: 1" = 30' JOB NO.: 05110.00 DATE: 06/01/2006 SHEET: 1 OF 1