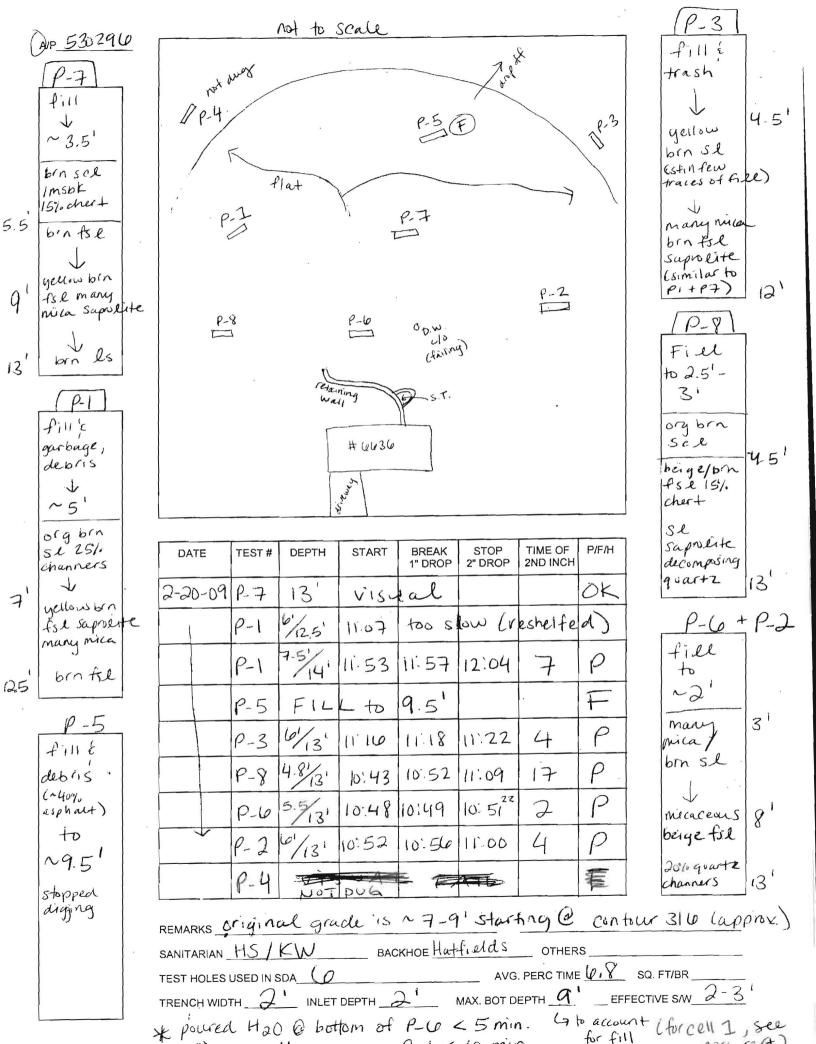


APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S)	TEST TIME	(A)P 3302 44
AGENCY REVIEW:		DATE 2/5/09
DO NOT WRITE A	BOVE THIS LINE	
I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR T CHECK AS NEEDED: CONSTRUCT NEW SEPTIC SYSTEM(S) REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM REPLACE AN EXISTING SEPTIC SYSTEM	O ISSUANCE OF SEWAGE DISPOS CHECK AS NEEDED:	S) ISTING 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 WITHII YES NO	N 2500' OF ANY RESERVOIR?
CI INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMI	AND TYPES OF EMPLOYEES/ CUST BERS AND TYPES OF EMPLOYEES	TOMERS ON ACCOMPANYING PLAN) S/USERS ON ACCOMPANYING PLAN)
PROPERTY OWNER(S) Lois and Letoy Peters	-	
DAYTIME PHONE (443) -266 - 7372 CELL		FAX
MAILING ADDRESS 13009 Twelve Trees C.t. STREET	Charksuille CITYTOWN	MD 21029-024 STATE ZIP
APPLICANT Same as owners		
DAYTIME PHONE CELL		FAX
MAILING ADDRESSSTREET	CITY/TOWN	STATE ZIP
APPLICANT'S ROLE: DEVELOPER BUILDER BUYE	RELATIVE/FRIEND	REALTOR CONSULTANT
PROPERTY LOCATION SUBDIVISION/PROPERTY NAME		LOT NO
PROPERTY ADDRESS 6636 Cedar Lane STREET	Columbia MD TOWN/POS	21044 ST OFFICE
TAX MAP PAGE(S) 35 GRID 16 PARCEL(S) <u>154 </u>	POSED LOT SIZE 2.00 Ac.
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM	INSTALLED SUBSEQUENT TO	THIS APPLICATION IS ACCEPT-
ABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS AP	PLICATION IS COMPLETE WHE	EN ALL APPLICABLE FEES AND A
SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE R	ESPONSIBILITY FOR COMPLIA	NCE 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 OF APPL	LICANT

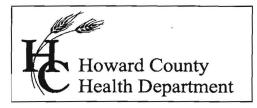
HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM 7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648 TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH



P-1 < 10 min.

11

Graciount (forcell 1, see for fill DELL TRAT



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

February 23rd, 2009

Lois & Leroy Peters 13009 Twelve Trees Ct. Clarksville, MD 21029

Re: PERCO

PERCOLATION TEST RESULTS

Receipt # - A530296

6636 Cedar Lane (Aastoria II Assisted

Living)

Dear Applicant,

Percolation testing was conducted at the above referenced property on February 20th, 2009 in response to a Notice of Violation issued by the Health Dept. on 1/22/09. Results indicate satisfactory and unsatisfactory soil conditions for onsite wastewater disposal. Hole P-5 failed due to fill observed at approx. 9.5 feet, original grade could not clearly be indentified but is estimated at 10-11 feet making this location unsuitable for septic reserve area. Hole P-4 was not dug due to poor location and deep fill anticipated at this location. Uniform soils consisting of deep, sandy loams were identified in all other test holes below the layers of fill. Field data collected is shown on the Percolation Test Worksheets enclosed with this letter. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall have been provided, and may be confirmed at the time of installation.

The existing septic system is currently at the point of failure. A complete septic upgrade will be required to address this issue and to accommodate the increase in capacity at your facility. In the interim the septic system shall be pumped as often as necessary to prevent further overflows. Further review of this project is contingent upon submission of a Percolation Certification Plan by a registered surveyor/engineer demonstrating adequate septic area for the number of beds proposed at your facility. The septic upgrade shall be completed following approval of the Percolation Certification Plan.

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

Sincerely,

Heidi Scott

Well & Septic Program

Cc:

File

John Carney (sent via fax; Benchmark Engineering)

Christopher A. Malagari, P.E., President Donald A. Mason, P.E., Vice President

Ellicott City, MD 410-465-6105 410-465-6644 Fax

Middletown, MD 301-371-3505 301-371-3506 Fax

June 17, 2009

Heidi Scott Well & Septic Program Howard County Health Department 7178 Columbia Gateway Drive Columbia, MD 21046

Re: 6636 Cedar Lane Percolation Certification Plan

#A530296

Dear Ms. Scott,

Transmitted herewith are 3 revised Percolation Certification Plans. All comments submitted to us by your letter dated June 6, 2009 have been addressed in accordance with the following responses. If you have any questions or concerns feel free to contact me by phone at 410-465-6105.

Comment No.

Response

- 1. Test hole #4 has been removed as it was not tested.
- 2. General note #4 has been revised to reflect that the filed topography was verified by Benchmark Engineering, Inc.
- 3. The SRA has been revised as requested. It was necessary for us to extend the SRA to within 5 feet of the common property line of the subject property and lands owned by Hazel Wise. A revised variance request letter is attached.
- 4. General note #11 has been added to address the possible need for a low pressure dose system.
- 5. Minimum spacing calculations have been included in the tables for each cell.
- 6. The revised variance is attached.
- 7. The need for a future pump tank has been included as general note #12 and is also included in the variance letter.

Thank you for your time reviewing this submission. If you should have any questions or concerns please feel free to contact me at 410-465-6105 or email me at <u>jcarney@bei-civilengineering.com</u>.

Sincerely.

John M. Carney

For Benchmark Engineering, Inc.

Project Manager



Christopher A. Malagari, P.E., President Donald A. Mason, P.E., Vice President

Ellicott City, MD 410-465-6105 410-465-6644 Fax Middletown, MD 301-371-3505 301-371-3506 Fax

May 27, 2009

Heidi Scott Well & Septic Program Howard County Health Department 7178 Columbia Gateway Drive Columbia, MD 21046

Re: 6636 Cedar Lane

Percolation Certification Plan

#A530296

Dear Ms. Scott,

Transmitted herewith are 3 revised Percolation Certification Plans. All comments submitted to us by your letter dated April 6, 2009 have been addressed in accordance with the following responses. If you have any questions or concerns feel free to contact me by phone at 410-465-6105.

Comment No.

Response

- 1. The SRA has been revised as requested. It was necessary for us to extend the SRA to within 5 feet of the common property line of the subject property and lands owned by Howard County. A variance request letter is attached.
- 2. We have applied the application rate as requested. It was necessary for us to modify the trench width and effective sidewall calculations in order to provide adequate treatment. We did this in accordance with Howard County Private Sewage Disposal Code section 16.9.1.
- 3. The design of the trenches has been adjusted to have a width of 3 feet and an effective depth of 2 feet. This, along with the application rate, resulted in 417' of required trench per system. We have shown a tank layout that will require pumping in order to get the effluent to the third system.
- 4. The tank detail should be provided with the building permit.

Thank you for your time reviewing this submission. If you should have any questions or concerns please feel free to contact me at 410-465-6105 or email me at <u>jcarney@bei-civilengineering.com</u>.

Sincerely,

John M. Carney

For Benchmark Engineering, Inc.

Mr. Com

Project Manager



ENGINEERING, INC.

Christopher A. Malagari, P.E., President Donald A. Mason, P.E., Vice President

Ellicott City, MD 410-465-6105 410-465-6644 Fax

Middletown, MD 301-371-3505 301-371-3506 Fax

March 18, 2009

Heidi Scott Well & Septic Program Howard County Health Department 7178 Columbia Gateway Drive Columbia, MD 21046

Re: 6636 Cedar Lane

Percolation Certification Plan

#A530296

Dear Ms. Scott.

Transmitted herewith are 3 revised Percolation Certification Plans. All comments submitted to us by your letter dated March 16, 2009 have been addressed in accordance with the following responses. If you have any questions or concerns feel free to contact me by phone at 410-465-6105.

Comment No.

Response

- 1. General note #6 has been revised as requested.
- 2. General note #9 was added to address the need for repair before building permit issuance.
- 3. The existing septic tank is no longer going to be utilized in the final design.
- 4. The 0.8 application rate has been included in the calculation for the absorption area.
- 5. The side wall absorption has been changed to 2.5 feet in calculations for the absorption area.
- 6. The septic area has been modified to be 20' from the retaining wall. There are vertical constraints that may limit the use of this area.

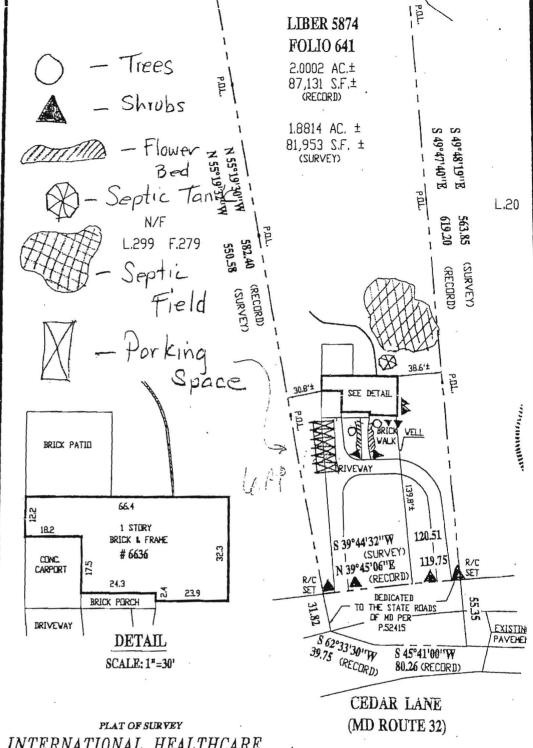
Thank you for your time reviewing this submission. If you should have any questions or concerns please feel free to contact me at 410-465-6105 or email me at jcarney@bei-civilengineering.com.

Sincerely,

John M. Carney

For Benchmark Engineering, Inc.

Project Manager



Accept plag Use = Zo

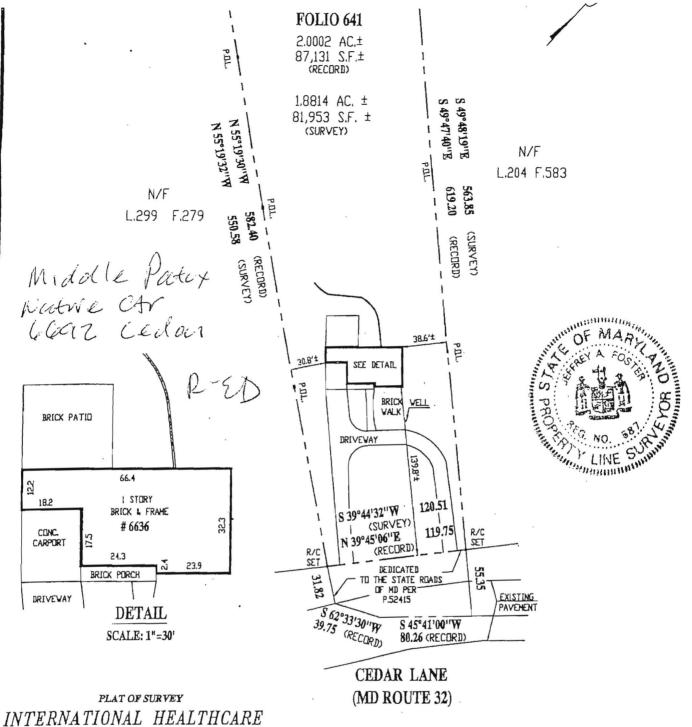
INTERNATIONAL HEALTHCARE
CONSULTANTS INC. PROPERTY

LIBER 5874 FOLIO 641

HOWARD COUNTY, MARYLAND

Building Line and/or Flood Zone Information is taken from Available Sources and is Subject

	SURVEYOR'S CERTIFICATE	REFERENCES	
	THEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON HAS BEEN BASED UPON THE RESULTS OF A FIELD SURVEY PURSUANT TO THE	PLAT BK.	LANI 2
	DEED OR PLAT OF RECORD. PROPERTY MARKERS HAVE BEEN RECOVERED OR PLACED IN ACCORDANCE WITH THE INFORMATION SHOWN."	PLAT NO.	GE 301/
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	Jeffrey A. tooth	LIBER 5874 FOLIO 641	PROP. CORS.: 10-24-02
Ì	MARYLAND PROPERTY LINE SURVEYOR REG. NO. 321	FOELU 641	HSE. LOC.: 08-07-02
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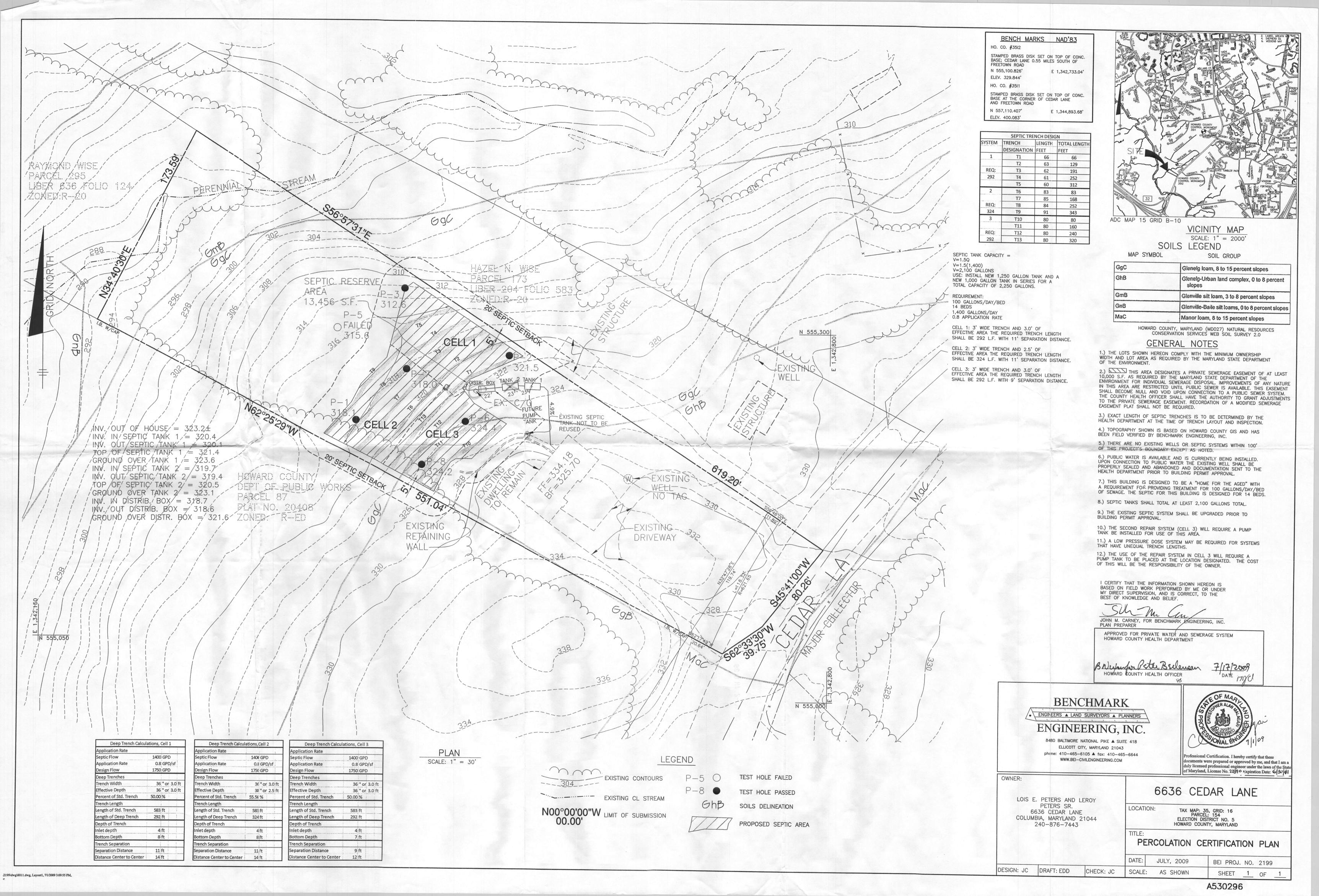
CONSULTANTS INC. PROPERTY

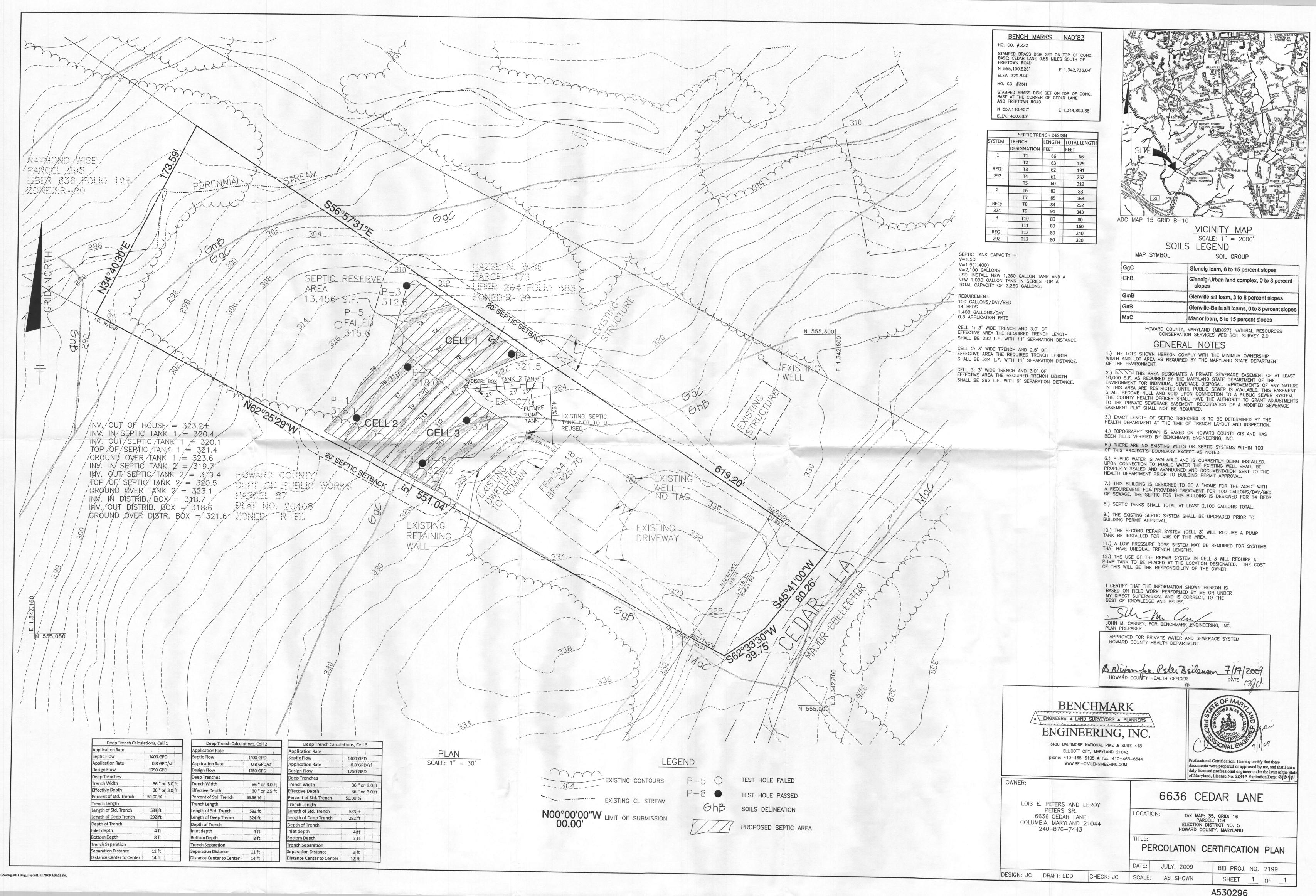
LIBER 5874 FOLIO 641

HOWARD COUNTY, MARYLAND

Building Line and/or Flood Zone Information is taken from Available Sources and is Subject to Interpretation of Ordinator

SURVEYOR'S CERTIFICATE	REFERENCES	S	NIDER & ASSOCIATES
I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON HAS BEEN BASED UPON THE RESULTS OF A FIELD SURVEY PURSUANT TO THE DEED OR PLAT OF RECORD. PROPERTY MARKERS HAVE BEEN RECOVERED OR PLACED IN	PLAT BK. PLAT NO.	SU LAND 2 P Gai	RVEYORS — ENGINEERS PLANNING CONSULTANTS rofessional Drive, Suite 216 thersburg, Maryland 20879 48-5100, Fax 301/948-1286
ACCORDANCE WITH THE INFORMATION SHOWN."		DATE OF LOCATIONS	SCALE: 1" = 80'
Deffunt Forty	LIBER 5874	PROP. CORS.: 10-24-02	DRAWN BY: E.M.G.
WARYLAND PROPERTY LINE SURVEYOR REG. NO. 537	FOLIO 841	HSE, LOC.: 08-07-02	JOB NO.: 2002-6174





A530296

