



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_ AP 527296

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 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) CARROLL J. BAKER

DAYTIME PHONE 410-531-2491 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 11772 Rt. 108 Clarksville Md. 21079  
STREET CITY/TOWN STATE ZIP

APPLICANT SAME

DAYTIME PHONE \_\_\_\_\_ CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION OWNER  
SUBDIVISION/PROPERTY NAME \_\_\_\_\_ LOT NO. \_\_\_\_\_

PROPERTY ADDRESS 11772 Rt. 108 Clarksville  
STREET TOWN/POST OFFICE

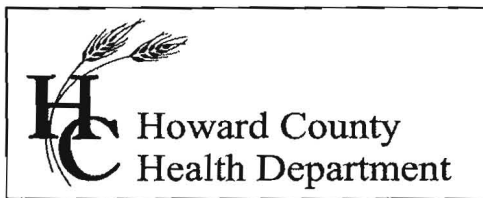
TAX MAP PAGE(S) \_\_\_\_\_ GRID \_\_\_\_\_ PARCEL(S) \_\_\_\_\_ PROPOSED LOT SIZE \_\_\_\_\_

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. Carroll J. Baker  
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





Bureau of Environmental Health  
7178 Columbia Gateway Drive, Columbia MD 21046  
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TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

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

October 31, 2007

C. Joseph Baker  
11772 Clarksville Pike  
Clarksville, MD 21029

Re: **Approved Perc Certification Plan**  
**Signed 10/29/2007**  
**11772 Clarksville Pike**

Dear Mr. Baker:

The Department of Health has reviewed the Perc Certification Plan for the above referenced property and has approved plans for the following reasons. The proposed pole building will not increase the wastewater generated on the property and has been located in an area the property that is not useable for on-site sewage disposal due poor landscape position and adjacent failing perc holes B and C.

The designated sewage disposal area will need additional testing in order to design a repair of the on-site sewage disposal system. On August 21, 2007 you did not permit us to perform a test hole in the location of the original proposed pole building location. Be advised that perc holes D & E were marginal due to the drainage mottles encountered in perc hole D from 2-5 feet. The additional testing is required to determine if the repair system design will be conventional, alternative, or innovative. Additionally, be advised that the site may not be able support any future increase in living space before public sewer becomes available to the property.

If you have any questions, I may be reached at (410) 313-2651.

Sincerely,

Michael J. Davis, R.S.  
Director, Well & Septic Program

C: file

original copy given to Joe Baker 10/31/07  
~ 8:40 AM



# APPLICATION

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PROPERTY OWNER(S) Carroll J. Baker

DAYTIME PHONE 410-531-2491 CELL \_\_\_\_\_ FAX \_\_\_\_\_

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STREET CITY/TOWN STATE ZIP

APPLICANT SAME

DAYTIME PHONE \_\_\_\_\_ CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_  
STREET CITY/TOWN STATE ZIP

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PROPERTY LOCATION OWNER  
SUBDIVISION/PROPERTY NAME \_\_\_\_\_ LOT NO. \_\_\_\_\_

PROPERTY ADDRESS 11772 Rt. 108 Clarksville  
STREET TOWN/POST OFFICE

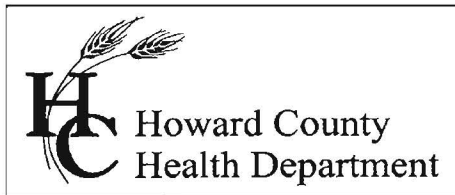
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TEST RESULTS WILL BE MAILED TO APPLICANT. Carroll J. Baker  
SIGNATURE OF APPLICANT

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

10/4/2007

To: C. Joseph Baker  
11772 Clarksville Pk.  
Clarksville, MD 21029

From: Gabe Creighton, Registered Sanitarian  
Well and Septic Program

Re: B07002903  
Building Permit  
30 x 40 Pole Building  
11772 Clarksville Pk.

Mr. Baker:

This department has received and reviewed the revised percolation certification plan (with revised building location proposal) submitted to this office on 9/28/2007. The following is an explanation of why the submittal cannot be approved.

The reasons the plan and building location cannot be approved begin with the results of the percolation tests conducted on 8/24/2007. The results of these percolation tests were limited for reasons explained below.

- Percolation test A, was dug in a location where presumably, an existing septic trench was located and therefore was neither tested nor excavated to a depth to observe soil conditions at depths suitable for septic systems. (Result: Inconclusive)
- At the time of percolation testing Percolation test B was considered a failing test due to an excessive amount of rock in the soil profile. (Result: Fail)
- Soil conditions in Percolation test C were observed to contain indications of possible seasonal groundwater saturation and drainage problems, and thus would have to be observed during the wet season (typically spring time when groundwater tables are observed to be at peak levels) to be considered passing. (Result: Held for Wet Season Review)
- Percolation test(s) D & E were the only passing percolation tests. (Result: Pass)
- A proposed percolation test between tests D and B was denied due to the fact that at the time, the proposal was to place the structure in that vicinity. Percolation testing in this area would be crucial to identifying the limits of the deep soils found in test D and excessive rock content observed in test B.

To: Joe Baker  
Re: B07002903  
Pg: 2

This being the case, the structure's proposed location between the only two passing test locations is not suitable due to the number of limitations to septic systems existing on this property.

First and foremost of these limitations is the lack of definable repair area (as indicated by lack of passing percolation tests), because of this, approvable building locations would have to be in areas of the property which are decidedly unsuitable for septic systems (the proposed location is not). Other noteworthy limitations include the existing well's location near the center of the one acre parcel in such a location that the 100 ft. setback to septic systems from the wellhead renders a large portion (approximately 1/2) of the lot unsuitable for septic systems without percolation testing until the well is relocated (or the house connected to public water) at some point in the future. Additionally the topographically low area in the northeastern corner of the lot renders more of the parcel as unsuitable.

Despite the fact that percolation test E lies within 100 feet of the current well location, this area may still be considered for septic repairs if more suitable area cannot be identified. In the event of a septic failure on this property, all options will be pursued to ensure a properly designed septic system for the repair, including the possible relocation of the well. Pursuit of these options would be warranted due to the fact that neither public water nor public sewer service are to be made available in the foreseeable future for access from the property.

Approval of a building permit in an area potentially suitable for repair septic systems would be unconscionable in the opinion of this office without first delineating a septic reserve area. Approvable building locations would still need to be accompanied by an approved percolation certification plan as required by Howard County Code, Section 3.805, prior to building permit approval.

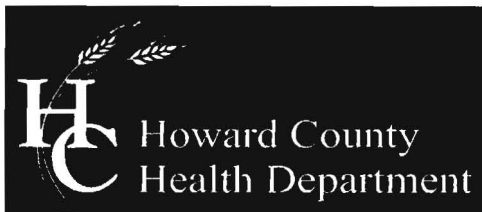
Upon receipt of this letter, you may respond in writing to the above address, or contact myself at (410) 313-2775 or Mr. Mike Davis, Well and Septic Program Supervisor at (410) 313-2651 with questions.

Respectfully,



Gabriel A. Creighton, R.S.  
Development Coordination Section  
Well and Septic Program

Enclosures  
cc: File



Bureau of Environmental Health  
7178 Columbia Gateway Drive, Columbia, MD 21046-2147  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

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

7/5/2007

To: Mr. Joe Baker  
11772 Clarksville Pike  
Clarksville, MD 21029

From: Gabe Creighton, Sanitarian  
Well and Septic Program

Re: Percolation Testing, A527296  
11772 Clarksville Pike  
BP: B07002903

Mr. Baker,

Percolation testing was conducted 8/24/2007 on the above referenced property in order to establish septic reserve area prior to building permit approval. This testing indicated several limiting conditions. Several percolation test holes observed contained limiting conditions such as deep impermeable soils and indications of possible groundwater table fluctuations in addition to a limiting amount of rock in at least one test hole. Further complications exist in that the well on your property is situated near the center of the one acre lot, making the 100 ft. setback requirement to the well with septic system components and repair area more difficult to meet.

It is apparent, based upon the review of both the percolation test results and those limiting conditions presented on your property, that the 30' x 40' pole building proposed by B07002903 will be situated on the most likely area for the repair of septic systems on your property. Health Department approval of the building permit with the structure in the location proposed would be to condone the limitations already existing and create further complications for future septic installations. Other locations may be considered, however, and may be approved based upon the feasibility of the area to support septic systems and the relationship to potentially approvable repair area.

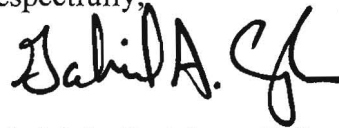
Further review of the project is contingent upon submittal of a Percolation Certification Plan as required by Howard County Code Subtitle 3.8. At this time, indicate on this plan a revised location for the structure.

Enclosed for your reference is a summary of these regulations, a copy of the percolation test notes, and a chart of applicable setbacks for residential development.

Upon receipt of the Percolation Certification Plan, this office will review the plan to ensure the application of state and local codes and regulations. If deemed appropriate, the plan may be approved.

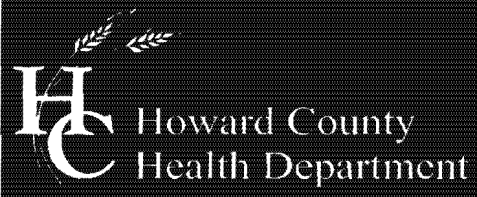
If you have any questions regarding this process, at this time or in the future, please do not hesitate to contact me directly at (410) 313-2775.

Respectfully,

A handwritten signature in black ink, appearing to read "Gabriel A. Creighton". The signature is stylized and cursive.

Gabriel A. Creighton, R.S.  
Development Coordination Section  
Well and Septic Program

GAC/gac  
Enclosures  
cc: File



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

## PERCOLATION CERTIFICATION PLAN / PRELIMINARY PLAN REQUIREMENTS

EXCEPT AS PROVIDED BY ITEMS I., II. AND III., IN THE FOLLOWING PARAGRAPH, BEFORE A BUILDING PERMIT IS ISSUED, A PERCOLATION CERTIFICATION PLAN SHALL BE SUBMITTED AND APPROVED THAT COMPLIES WITH THE PROVISIONS OF TITLE 3, SUBTITLE 8 OF HOWARD COUNTY CODE:

A BUILDING PERMIT MAY BE EXEMPT FROM A PERCOLATION CERTIFICATION PLAN WHEN THE PROPOSED STRUCTURE:

- (I) DOES NOT INCREASE THE AMOUNT OF LIVING SPACE; AND
- (II) IS LESS THAN 250 SQUARE FEET AND IS NOT A GARAGE; AND
- (III) THE EXISTING ON-SITE SEWAGE DISPOSAL SYSTEM IS ADEQUATE FOR THE EXISTING PROPERTY USE.

*All items must be included except those marked N/A*

### PERCOLATION CERTIFICATION PLANS OR PRELIMINARY PLANS MUST INCLUDE THE FOLLOWING SPECIFIC ITEMS:

- 1) IDENTIFICATION OF THE PROPERTY, ROAD, STREET ADDRESS IF APPLICABLE, TAX MAP PAGE, PARCEL NUMBER, SUBDIVISION NAME (IF APPROPRIATE); A PURPOSE STATEMENT AS APPROPRIATE (SUBDIVISION, SDA ADJUSTMENT, BUILDING PERMIT, ETC.).
- 2) NAME, ADDRESS, AND TELEPHONE NUMBER OF THE OWNER, DEVELOPER, AND THE PERSON PREPARING THE PLAN.
- 3) THE DATE THE PLAN WAS DRAWN, THE PLAN SCALE (1:30 – 1:100), A SCALED VICINITY MAP AND THE A # (PERCOLATION TEST FEE RECEIPT NUMBER, REFERENCED IN THE APPROVING AUTHORITY CORRESPONDENCE).
- 4) HEALTH OFFICER SIGNATURE BLOCK CONDITIONED WITH THE STATEMENT: “APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.”

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS

*SIGNATURE BLOCK EXAMPLE*

HOWARD COUNTY HEALTH OFFICER

- 5) EXISTING PROPERTY LINES.
- 6) ALL EXCAVATED TEST HOLES OBSERVED BY THE APPROVING AUTHORITY, IDENTIFIED ACCORDING TO THE ALPHANUMERIC IDENTIFIER IN THE SANITARIAN'S TEST NOTES. THESE LOCATIONS MUST BE ACCURATELY LOCATED/DEPICTED BY MULTIPLE MEASUREMENTS TO FIXED LOCATIONS ON THE PROPERTY SUCH AS HOUSE CORNERS, PROPERTY CORNERS OR OTHER SURVEY MEASUREMENT METHODS.
- 7) A LEGEND, WITH LEGEND SYMBOLS TO DISTINGUISH HOLES, WHICH PASSED, FAILED, OR WERE HELD FOR FUTURE REVIEW (E.G., FOR WET SEASON).
- 8) THE EXISTING WELL(S) ON THE PROPERTY WITH A 100 FOOT RADIUS ~~EACH~~ FOR LOTS CREATED AFTER MARCH 1972, PROPOSED MINIMUM 10,000 SQ. FT. SEWAGE DISPOSAL AREA FOR EACH LOT AND FOR LOTS CREATED BEFORE MARCH 1972, PROPOSED ADEQUATE AREA FOR AN INITIAL SYSTEM AND 2 REPAIR SYSTEMS.
- 9) *N/A*
- 10) FIELD VERIFIED TOPOGRAPHY LINES AT TWO-FOOT INTERVALS AND STATEMENT CERTIFYING SUCH. IF THE TOPOGRAPHY IS COPIED FROM HOWARD COUNTY GIS, STATE THE SOURCE AND INDICATE AS FIELD VERIFIED
- 11) EXISTING STRUCTURES, WELLS, SEPTIC SYSTEMS AND SEWAGE EASEMENTS (LIST USE AND INTENT DESIGNATED FOR EACH (FOR EXAMPLE: REMAIN, REMOVE OR ABANDON)).
- 12) IDENTIFICATION OF STREAMS, PONDS, FLOODPLAINS, 25% AND GREATER SLOPES.
- 13) PROPOSED ADDITIONS, ALTERATIONS, BUILDINGS, ETC. AND DRIVEWAY WITH BUILDING RESTRICTION LINES AS DETERMINED BY OTHER COUNTY AGENCIES.

- 14) ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100 FEET OF PROPERTY BOUNDARIES AND A NOTE STATING THAT ALL ARE SHOWN. THE PLAN PREPARER SHALL USE ALL REASONABLE EFFORTS TO FIND THE LOCATION OF ALL SURROUNDING WELLS AND SEPTIC SYSTEMS AND A NOTE STATING SUCH. (IE: 'ALL EXISTING WELLS AND SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN.')
- 15) ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN-GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS.
- 16) THE FOLLOWING STATEMENT WITH SIGNATURE: "I CERTIFY THAT THE INFORMATION SHOWN HERON IS BASED ON WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF."
- 17) INCLUDE THE FOLLOWING STATEMENT: "ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN."
- 18) INCLUDE ONE OF THESE STATEMENTS ('A' OR 'B') AS APPLICABLE ALONG WITH THE SYMBOL USED TO INDICATE THE SEWAGE DISPOSAL AREA:

N/A

A. "MDE SEWAGE EASEMENT STATEMENT FOR LOTS CREATED AFTER MARCH 1972:

THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL.

IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED.

THIS EASEMENT SHALL BECOME NULL 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."; OR

~~A~~B.

"MDE SEWAGE DISPOSAL AREA STATEMENT FOR LOTS CREATED  
BEFORE MARCH 1972:

THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE DISPOSAL AREA."

N/A<sup>19)</sup>

FOR PROPOSED SUBDIVISIONS AND RETESTS OF LOTS CREATED AFTER NOVEMBER 1985, CERTIFICATION OF COMPLIANCE WITH MARYLAND DEPARTMENT OF THE ENVIRONMENT MINIMUM OWNERSHIP AREA AND LOT WIDTH REQUIREMENTS AND THIS STATEMENT: "THE LOT(S) SHOWN HEREON COMPLIES/COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT."

Source: Howard County Code, Section 3.805


# Percolation Certification Plan: A527296

11772 Clarksville Pike, Clarksville, MD 21029

Owner: Carroll J. Baker (410) 531-2491

Notes:

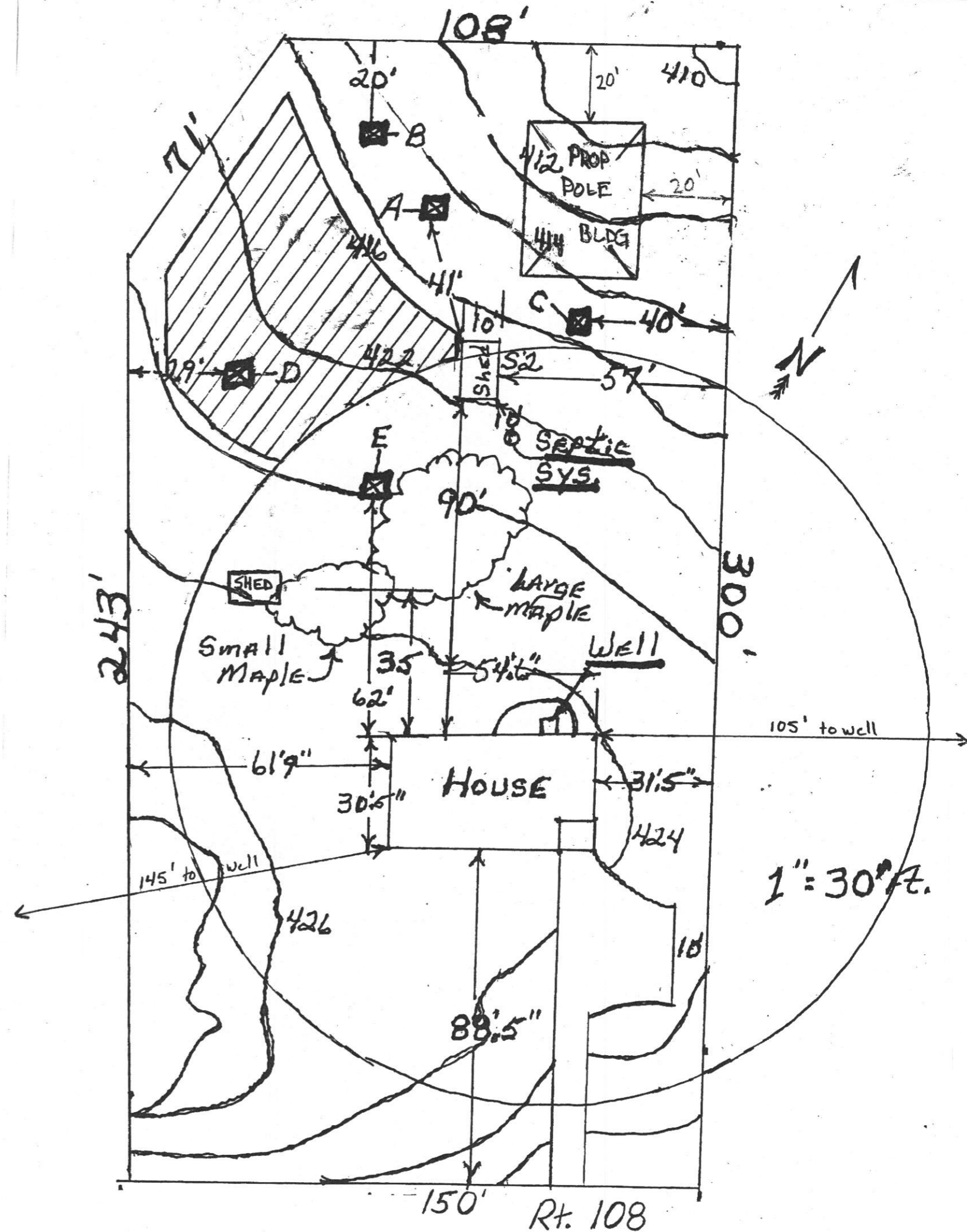
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- 2) Percolation Test Results
  - A. Inconclusive
  - B. Fail
  - C. Held for Wet Season Review
  - D. Pass
  - E. Pass
- 3) The existing structures will remain
- 4) The proposed structure is shown on the drawing.
- 5) Well and Septic Systems on the property are shown on the drawing.
- 6) Adjacent wells and septic systems will not be impacted by this proposal. The adjacent wells are greater than 100 feet from the proposed septic reserve area. No wells exist within 200 feet downslope.
- 7) Any changes to a private sewage easement shall require a revised percolation certification plan.

 This area designates a private sewage disposal area as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this area are restricted. This sewage disposal area shall become null and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to the private sewage disposal area.

The information shown on this plan is based on work performed by me, and is correct to the best of my knowledge and belief.

*Carroll J. Baker* Date 10-3-07

Approved for Private Water and Sewerage Systems  
*B. Nylan for Peter Beilensen* Date 10/29/07  
 Howard County Health Officer GAC mgj




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*Carroll J. Baker* Date 10-3-07

Approved for Private Water and Sewerage Systems  
*B. Weyer for Peter B. Selmon* Date 10/29/07  
 Howard County Health Officer GAC *mjo*

