

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 525234

AGENCY REVIEW: _____

DATE 8/28/06

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 *addition*

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 and CANDY ELISIO

DAYTIME PHONE 410-489-4891 CELL _____ FAX _____

MAILING ADDRESS 16333 OLD FREDERICK Rd. Mt. Airy Md. 21771
STREET CITY/TOWN STATE ZIP

APPLICANT Judith Ketterman K&K EXCAVATING Inc.

DAYTIME PHONE 410-442-1336 CELL _____ FAX _____

MAILING ADDRESS P.O. Box 280 Lisbon Md. 21765
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME MIDDLE TRAIL FARMS LOT NO. _____

PROPERTY ADDRESS 16333 OLD FREDERICK ROAD
STREET TOWN/POST OFFICE

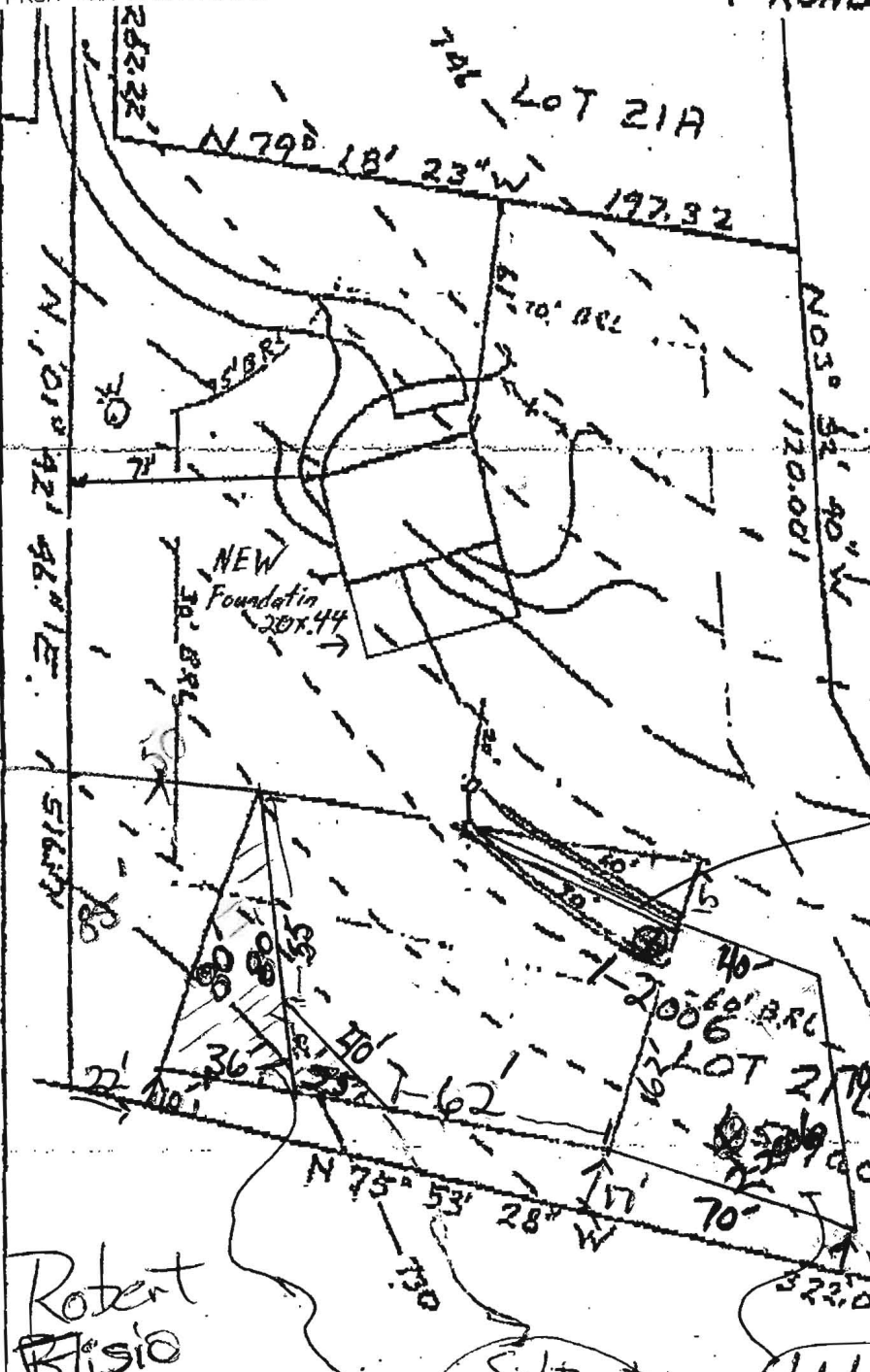
TAX MAP PAGE(S) _____ GRID _____ PARCEL(S) 21B PROPOSED LOT SIZE 1.5 AC

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.

Judith Ketterman
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



HOUSE;
 FIRST FLOOR ELEV. 746.0
 BASEMENT ELEV. 737.0
 INVERT @ HOUSE 734.88

SEPTIC TANK:
 EXISTING GRADE 738.5
 PROPOSED GRADE
 INVERT IN 734.46
 INVERT OUT 734.21

DISTRIBUTION BOX:
 EXISTING GRADE 737.0
 PROPOSED GRADE 737.0
 INVERT 734.0

TRENCHES:

	INVERT	LENGTH	DEPTH	STONE
#1	333.8	60'	3' to 8'	5'
#2	333.3	70'	3' to 8'	5'

Trench installed/round
 7/30/82
 J. S.

Robert
 Blisio
 Property

Subtract ~300 ft² Topography
 Add ~3325 ft² Percs Passed
 Subtract ~1404 ft² Soil-failed perc

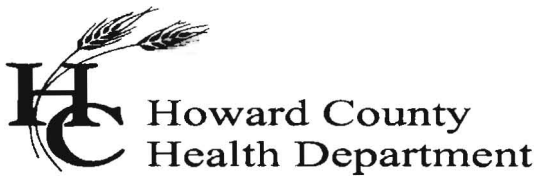
I certify the above measurements and elevations are true and actual for this property.

J. Carl Hudgins
 J. Carl Hudgins

9/1/2006

GRADING STUDY PARCEL 21B
 MIDDLE TRAIL, LISBON MD
 4th Election District
 Howard County Maryland
 Scale 1"=50'
 Date 7/27/82

16333 Old Frederick
 ROAD
 mt Airu md. 21771



Howard County
Health Department

Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-899-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

September 7, 2006

Robert Elisio
16333 Old Frederick Road
Mt. Airy, Maryland 21771

RE: PERCOLATION TEST RESULTS, A-525234

Dear Mr. Elisio,

Percolation testing conducted August 31, 2006 on the referenced property indicated both unsatisfactory and satisfactory soil conditions. A copy of the Percolation Test Results worksheet is enclosed with this letter. Please note that the recommended depth of trench and usable sidewall for septic system design shown on the worksheet are based on observed soil properties and characteristics at this location as well as the particular soil material tested.

Four holes were dug: one near the location of #4 hole dug in 1976 (4-1976); one dug outside the formerly described septic easement about 50' west of the 1976 hole #1 (1-1976) location; one (1-2006) just downhill of current drainfield trench at east edge of formerly described septic easement; one (2-2006) in area to east of the formerly described septic easement. Percolation test at 4-1976 failed as the time exceeded 30 minutes for the water level to drop from 1 inch to 2 inches. Test hole 1-1976 was failed as the soil profile at that location is very similar to 4-1976. Percolation tests 1-2006 and 2-2006 both passed. See the attached copy of the Field Worksheet and the septic specification worksheet.

Subsequently, area at the west side, largely in the southwest corner of the formerly described septic easement has been designated as unsuitable for onsite wastewater treatment. The total unsuitable area is about 1704 sq.ft.: about 1404 sq.ft. due to failed perc tests and about 300 sq.ft. due to unusable topography (would require a trench shorter than 40 feet). Area added to the east side of the formerly described easement totals about 3325 sq.ft.. The added area extends along the property boundary about 70 feet east of the former easement's southeast corner. From a point 10 feet north of the subject property's south boundary, the east boundary of the added area extends about 70 feet north-northwest to a point about 40 feet east from the end of the current drainfield trench.

Validation of the septic easement originally described in 1976, and the resulting percolation tests are required due to a planned addition to the existing residence. The current structure is to be expanded by an addition on the south side of the house extending 20 feet outward. The addition will include a bedroom, thereby expanding the residence from 3 bedrooms to 4 bedrooms. Please note that a 1250-gallon capacity septic tank will be required as a result of the new addition. This is a significant addition, and along with the adjustments of the septic easement (SDA), a Percolation Certification Plan will be required.

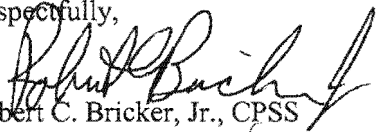
Regarding current status of testing and results for the subject property at 16333 Old Frederick Road, further review is contingent upon submission by a registered engineer/surveyor of a Percolation Certification Plan that includes the following items:

1. Identification of the property, road, street address if applicable, tax map page, parcel number, subdivision name (if appropriate); add purpose statement as appropriate, e.g. subdivision, SDA adjustment, etc.
2. Name, address and telephone number of each owner, developer and the plan author.
3. The date the plan was drawn, the plan scale (1:30 – 1:100), a scaled vicinity map and, if not a Preliminary Plan, the A # (percolation test fee receipt number, referenced in the HCHD correspondence).

4. Health Officer signature block conditioned with the statement, "Approved for private water and private sewerage systems".
5. Existing and proposed property lines.
6. All excavated test holes observed by HCHD inspector, identified according to the original percolation testing proposal, or as otherwise identified at the time of testing; staked holes not dug should not be shown.
7. **Actual** surveyed elevation (not based on County Aerial topography) of each test hole.
8. Legend symbols to distinguish holes, which passed, failed, or were held for re-review (e.g., for wet season).
9. Legend symbols to distinguish between existing holes previously documented and new holes.
10. Proposed minimum 10,000 sq. ft. SDA for each lot that does not encroach upon any setback described by regulation.
11. A table detailing maximum number of bedrooms, total SDA area in square feet, average perc time, and number of square feet of septic capacity per bedroom. **(10,000 ft. requirement not applicable if lot(s) were created before March 1972)**
12. Field verified (field run) topography at 2-foot vertical intervals and statement certifying field verification of topographic features.
13. Existing structures, wells, septic easements and other septic system components such as tanks, dry wells and distribution boxes. Description of use and intent designated for each item, e.g. 'to remain' or 'remove'.
14. Identification of streams, ponds, wetlands, floodplains, slopes >25%, soil types and soil type boundaries.
15. **Proposed structure footprint, or suitable house site (55' x 70'), with Building Restriction Lines as determined by other County agencies.**
16. All existing wells and proposed wells that are down gradient and within 200 feet of existing or proposed septic systems (including SDAs), and those existing or proposed septic systems locations (including SDAs).
17. All existing wells, septic systems and sewage disposal easements within 100 feet of property boundaries and a certification note stating that all are shown.
18. Professional seal or signed statement that "I certify that the information shown heron is based on field work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief."
19. For this lot created after March 1972, the following statement shall be included on the Percolation Certification Plan: "This area designates a private sewage easement of at least 10,000 square feet as required by Maryland Department of Environment for individual sewage disposal. Improvements of any nature in the designated area are restricted. This easement shall become null and void upon connection to a public sewage 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."
20. **If adjustment of previously approved SDA, show area gained, area lost, and final SDA; calculate square footage for each; and shade any area to be abandoned differently than any new SDA to be established.**

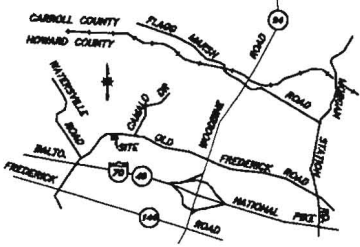
If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-1771.

Respectfully,


Robert C. Bricker, Jr., CPSS
Well and Septic Program
Development Coordination Section

Enclosure

Cc: Judy Ketterman, K&K Excavation, Inc.
File

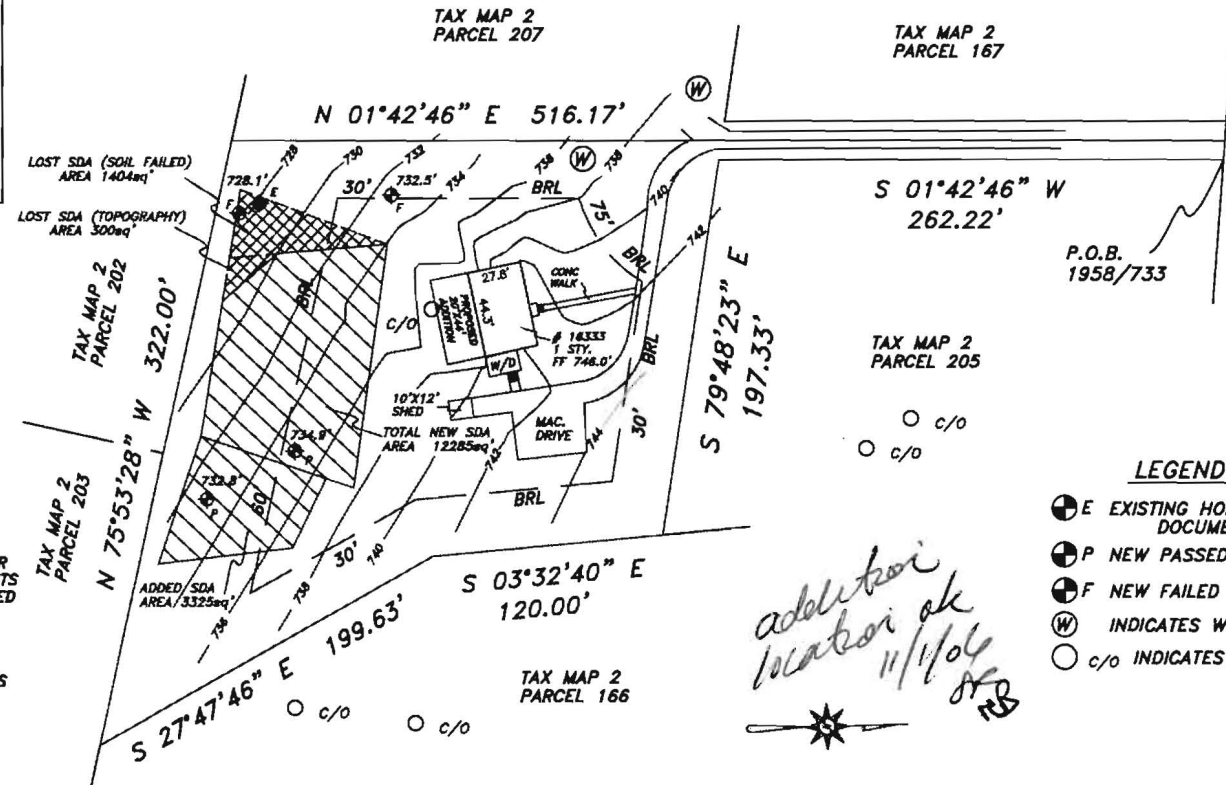


VICINITY MAP 1"=10,000'

NOTES:

- 1) ALL EXISTING WELLS AND SEPTIC WITHIN 100' OF THE PROPERTY BOUNDARY HAVE BEEN SHOWN.
- 2) THE TOPOGRAPHY SHOWN HEREON IS DERIVED FROM A FIELD RUN SURVEY PERFORMED BY N.T.T. ASSOC. INC. IN SEPTEMBER 2006.
- 3) ALL WELLS TO BE DRILLED PRIOR TO SUBMITTAL AND APPROVAL OF BUILDING PERMIT.
- 4) THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- 5) THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF A MINIMUM OF 10,000 sq' AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
- 6) SEPTIC SYSTEM UPGRADE IS REQUIRED BEFORE BUILDING PERMIT APPROVAL.

No. OF BEDROOMS	TOTAL SDA AREA	AVG. PERC RATE	SEPTIC CAPACITY/BEDROOM
4	12285sq'	12	210



○ c/o
 Subject property is shown in Zone C on the FIRM Map of HOWARD COUNTY, Maryland on Community Panel 240044 0002 B.Effective DECEMBER 4, 1986

OWNER / DEVELOPER
ROBERT ELISIO
 16333 OLD FREDERICK ROAD
 MT. AIRY, MARYLAND 21771
 PHONE 410-489-4891

THE PURPOSE OF THIS PLAT IS TO ADJUST THE SDA AS PER PERCOLATION TEST RESULTS A-525234.

- LEGEND**
- EXISTING HOLE PREVIOUSLY DOCUMENTED
 - NEW PASSED PERC TEST
 - NEW FAILED PERC TEST
 - INDICATES WELL
 - INDICATES CLEANOUT

*addition
 location ok
 11/1/06
 RB*

This is to certify that I have surveyed the property shown hereon, being known as # 16333 OLD FREDERICK ROAD TAX MAP 2 PARCEL 206 MIDDLE TRAIL PARCEL 21B and recorded among the land records of HOWARD County, Maryland in Liber 1958 FOLIO 733 and is correct, to the best of my knowledge and belief for the purpose of locating percolation test.



PERC CERTIFICATION PLAN
 16333 OLD FREDERICK ROAD
 4th ELECTION DISTRICT
 HOWARD COUNTY, MD.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS

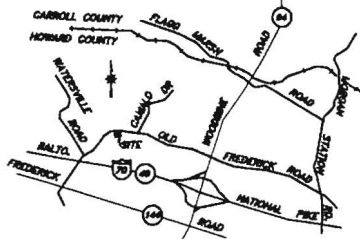
Robert J. Walden 10/12/06
 for HEALTH OFFICER SIGNATURE

J. Carl Hudgins PLS #96

NTT Associates, Inc.
 16205 Old Frederick Road
 Mt. Airy, Maryland 21771
 Ph. (410)442-2031
 Fax No. (410)442-1315

Scale: 1"=100'
Date: 15SEPT06
Field By: RIK
Drawn By: RIK
Drawing # MISC8814

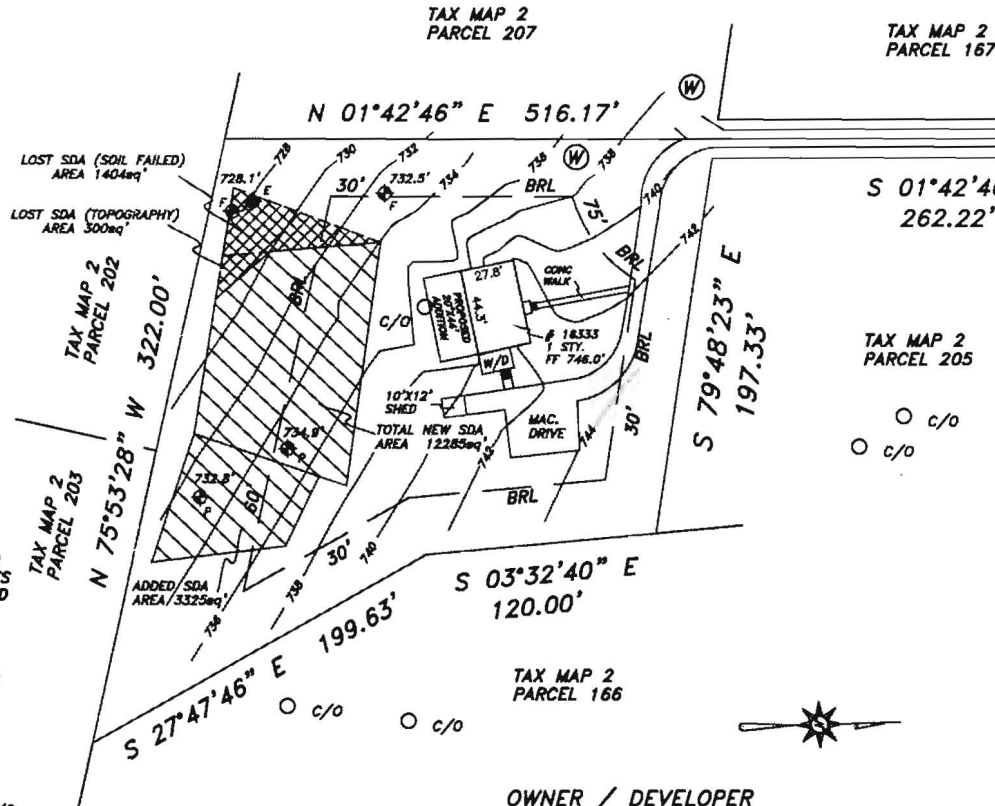
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Subject property is shown in Zone C on the FIRM Map of HOWARD COUNTY, Maryland on Community Panel 240044 0002 B. Effective DECEMBER 4, 1986

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 MT. AIRY, MARYLAND 21771
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 16333 OLD FREDERICK ROAD
 4th ELECTION DISTRICT
 HOWARD COUNTY, MD.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS

Robert J. Weber 10/12/06
 for HEALTH OFFICER SIGNATURE

J. Carl Hudgins PLS #96

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 Mt. Airy, Maryland 21771
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