



HOWARD COUNTY HEALTH DEPARTMENT

56668

DATE
7 / 31 / 2015

Received From

London Chapel Hills

PHONE # 410-848-1790

13535 Arroyo Drive, Dayton MD 21036

For perc App

CASH

CHECK

NO.

1507

Five hundred and one dollar x 1/100

Dollars

\$

506 100

Received By

Michael J. Davis



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) 8/13/2015 TEST TIME 9:30 DP 556668
 AGENCY REVIEW: R. Smith DATE 7-31-15

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 6 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) Paul & Heather Green

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS 13535 Argo Drive ; Dayton MD 21036
STREET CITY/TOWN STATE ZIP

APPLICANT CSI

DAYTIME PHONE 410-848-1790 CELL _____ FAX _____

MAILING ADDRESS 439 E. Main St; Westminster MD 21157
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME Linden Chapel Hills LOT NO. 18

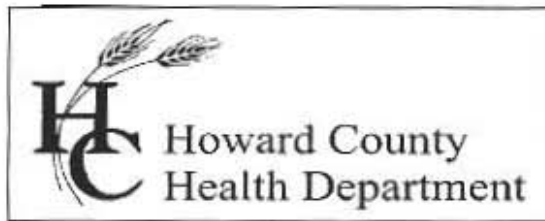
PROPERTY ADDRESS 13535 Argo Drive ; Dayton MD
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 28 GRID 14 PARCEL(S) 3330 PROPOSED LOT SIZE 40,846 sq ft

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
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

8930 Stanford Blvd., Columbia, MD 21045
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TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
Facebook: www.facebook.com/hocohealth
Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

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

August 14, 2015

To: Linda Alexander, CLSI, Applicant

RE: Percolation Test Report. 13535 Argo Drive; Linden Chapel Hills, Lot 18

Percolation testing at 13535 Argo Drive was conducted on August 14, 2015. Three (3) test locations and/or soil profile observations were dug for the proposed sewage disposal area (SDA). The SDA is required in support of a building permit for an addition to the existing house.

All 3 test locations '151', '152', and '153', PASS for a conventional septic system design. Test '151' was dug 29 feet (across the driveway) from stake '1,2', and 28 feet from the edge of the Argo Drive pavement. Test '152' was dug 10 feet south of stake '5', and test '153' was dug about 10 feet north of stake '6'.

Locations of percolation tests that 'PASS' are used to define the sewage disposal areas (SDA) proposed on the Percolation Certification Plan. All percolation test locations, percolation test results, and suitable area for wastewater discharge are certified by the Approving Authority's signature of the Percolation Certification Plan. All percolation test locations must be field-located and the respective elevations documented on a Percolation Certification Plan. Field-run topography in and around the proposed SDA is required for certification. Also, to be included on the plan is the location of trenches for the Initial System and trenches for each of two Replacement Systems. The initial drainfield shall be installed in the uppermost area of the SDA. A Trench Specifications Sheet is included as an attachment to this report.

There is a septic tank and a dry well on the property. The septic tank cleanout is easily observable about 20 feet from the foundation front, near to the driveway. The septic tank is about 83 feet from the drilled well. The dry well is only about 50 feet from the drilled well. As a new septic system will be installed, the existing septic tank and dry well are to be properly abandoned when the new septic system is installed. The BAT unit and Pump Chamber may be installed less than 100 feet from the drilled well, however neither component may be installed closer to the well than the existing septic tank. The drainfield shall be designed for low-pressure distribution.

In addition to a Percolation Certification Plan, a BAT Site Plan is needed as the new septic system will include a BAT unit. The Percolation Certification Plan and the Bat Site Plan may be submitted together as one plan, however the Health Department recommends that calculations, septic system profile, and content related specifically to the BAT unit should be presented on a sheet separate than the sheet containing the Percolation Certification Plan content.

The sequence of events, beginning with submittal of the Percolation Certification Plan/BAT Site Plan, should proceed as follows: 1) Review and revision/approval of the Percolation Certification Plan. 2) Review and approval of the BAT Site Plan (which may be simultaneous to percolation certification approval). 3) Installation of the BAT system and trenches is completed and approved, and the 'old' septic system components are abandoned. 4) Signature/release of building permit B15001385.

Please know that the Operation and Maintenance Agreement for BAT system must be signed by the owner, submitted at the Health Department for signature by the Approving Authority, then submitted to Land Records for recording. The Septic System Installation Permit may be released when a copy of the receipt for recording the agreement is delivered to the Health Department. The installation permit can only be released to a contractor who has been certified to install BAT units by the Maryland Department of the Environment.

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

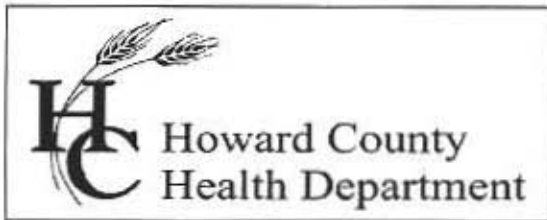
Respectfully,



Robert Bricker, CPSS, REHS/RS, L.E.H.S.
Environmental Sanitarian II
Well and Septic Program

Enclosures: (2)

Copy: Gregg Leffler, Leffler Construction, Inc.
Paul Green, owner
file



Bureau of Environmental Health

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Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

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

July 6, 2015

To: Dennis E. Meckley, Property Line Surveyor
dmeckley@clsimail.com

RE: Percolation Certification Plan comment; Linden Chapel Hills, Lot 18 (13535 Argo Drive),
Green residence

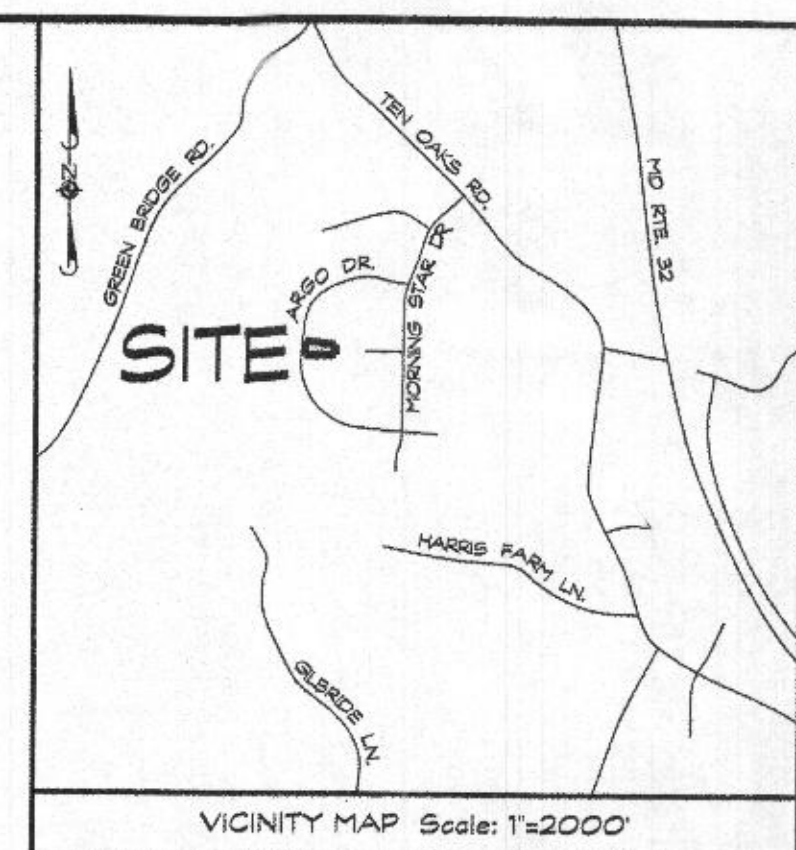
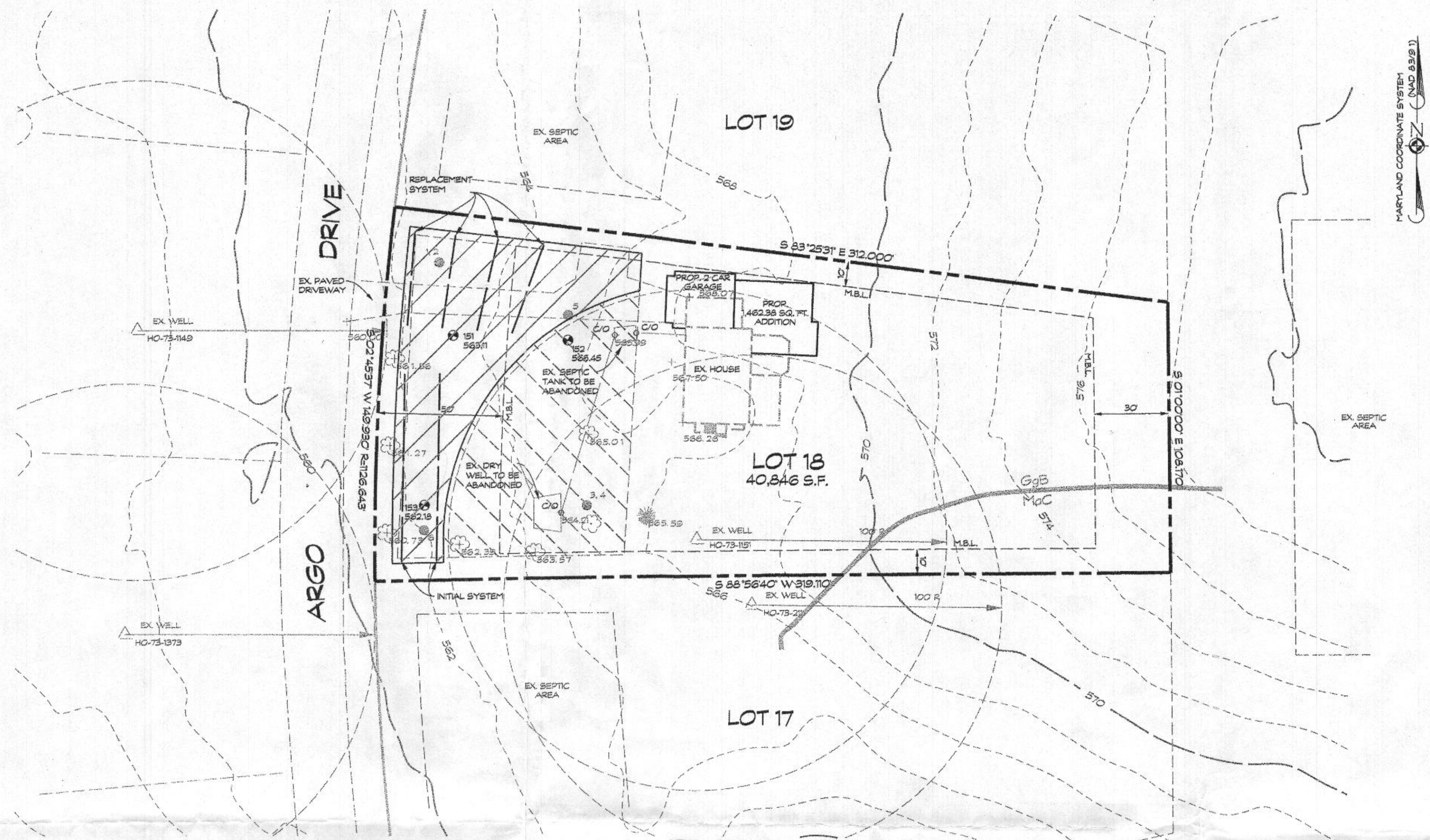
The following additions, deletions, and/or corrections are required on the submitted Percolation Certification Plan.

1. Exclude the area within the 100-ft well-arc from the sewage disposal area (SDA).
2. Provide a label for the amount of area that remains in the SDA.
3. Add two Alternate Well locations with their respective 100-ft radii. In addition to meeting all other regulated setback requirements, the proposed alternate well locations must be spaced at least 50 feet from the existing well and each other.
4. The Purpose Statement is lacking relevant information. Please be advised that the purpose for any percolation certification plan would be related to requirements concerning the sewage disposal area or well locations. Sometimes certification of well locations or sewage disposal area is required in support of a building permit proposal.
5. Due to a renewed emphasis on certifying topography, Note 3 must be re-written. This is the engineer's/surveyor's certification note. The note is to meet the requirement for a statement certifying that the topography illustrated on the plan is based on field-run data, or certifying that the topography is an accurate representation of field-conditions.

Two things it is not:

- A. It is not a certification of spot elevations such as the percolation test locations. (However, the perc test location elevations are to be included on the plan.)
 - B. It is not simply a description or explanation of the source of data used to illustrate the elevation contours.
6. Add this Note:

SHOULD A SEPTIC SYSTEM UPGRADE BE REQUIRED, THE SEPTIC SYSTEM COMPONENTS SHALL BE INSTALLED AND APPROVED PRIOR TO HEALTH DEPARTMENT APPROVAL OF THE BUILDING PERMIT APPLICATION.



PLAN
SCALE: 1" = 30'

LEGEND:

- + 562.5 SPOT ELEVATION
- ▲ EX. WELL
- PREVIOUS PERC TEST LOCATION
- PERC TEST LOCATION

THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS EASEMENT ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THIS EASEMENT 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. RECORDATION OF THE MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

THIS AREA DESIGNATES A PREVIOUSLY DEFINED SEWAGE AREA, WITHIN 100 FEET OF WELL, THAT IS CURRENTLY UNUSABLE.

THE ELECTRICAL SERVICE ENTRANCE WIRE MUST BE RE-ROUTED PRIOR TO RELEASE OF THE SEPTIC SYSTEM PERMIT.

THE HEALTH DEPARTMENT REQUIRES THAT ANY SEPTIC SYSTEM DRAINFIELD INSTALLED ON THIS PROPERTY BE DESIGNED FOR LOW PRESSURE DISTRIBUTION OR EQUIVALENT.

PURPOSE NOTE:
THE PURPOSE OF THIS REVISED PERCOLATION CERTIFICATION PLAN IS TO SHOW ONE SYSTEM & REPLACEMENT SYSTEM FOR EXISTING HOUSE AND PROPOSED BUILDING ADDITION PER BUILDING PERMIT APPLICATION B15001365.

THE BAT UNIT AND THE PUMP TANK MAY BE INSTALLED AT A DISTANCE FROM THE EXISTING WELL THAT IS NO LESS THAN THE CURRENT DISTANCE BETWEEN THE WELL AND THE EXISTING SEPTIC TANK, WHICH IS ABOUT 23 FEET. THE EXISTING SEPTIC TANK AND THE DRY WELL MUST BE PUMPED DRY AND ABANDONED, I.E., THE VOIDS FILLED WITH CLEAN EARTH MATERIAL, FOR THE SEPTIC SYSTEM INSTALLATION PERMIT TO BE APPROVED.

SOILS LEGEND	
SOIL	TYPE
G _g B	GLENELG
M _g C	MANOR

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT

Richard J. Davis 9/15/15
HOWARD COUNTY HEALTH OFFICER

Dennis E. Meckley 9/15/15
DENNIS E. MECKLEY, PROPERTY LINE SURVEYOR NO. 10844

1. I HEREBY 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.

GENERAL NOTES

- CURRENT TITLE REFERENCE:
OWNER: PAUL F. & HEATHER C. GREEN
DEED REFERENCE: L. 13255, F. 136
DATE: APRIL 29, 2011
GRANTOR: VERGIE L. PIFER
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THE TOPOGRAPHY SHOWN HEREON IS BASED ON HOWARD COUNTY 200' SCALE TOPO MAPS AND FIELD VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY.
- EXISTING WELLS AND/OR SEWER EASEMENTS WITHIN 100' OF THE LOT LINES HAVE BEEN SHOWN. THERE ARE NO WELLS 200' DOWN GRADIENT OF THE SEPTIC EASEMENT AREA SHOWN.
- M.B.L. DENOTES MINIMUM BUILDING LINE
- ANY CHANGES TO THE PRIVATE SEWER EASEMENT AND/OR ALTERNATIVE WELL LOCATION SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THE PERCOLATION TEST LOCATIONS WERE TAKEN FROM THE INFORMATION PROVIDED BY THE HEALTH DEPARTMENT FROM THE ORIGINAL PERMIT INFO #22916.
- SHOULD STORMWATER MANAGEMENT BE REQUIRED, IT WILL BE PROVIDED BY A DRY WELL ON SITE.
- THE LOCATION OF PROPOSED STRUCTURES TAKEN FROM RESIDENTIAL CAD DESIGN AND CONSULTING, LLC PLANS FOR THE GREEN RESIDENCE.
- A SEPTIC SYSTEM UPGRADE WILL BE REQUIRED PRIOR TO HEALTH DEPARTMENT APPROVAL OF THE BUILDING PERMIT APPLICATION.

DATA TABULATIONS:

- ZONING DISTRICT: RR-DEO
- NUMBER OF BUILDING SITES: 1
- TOTAL AREA OF LOT: 0.94 ACRES

OWNER/DEVELOPER
PAUL & HEATHER GREEN
13535 ARGO DRIVE
DAYTON, MD 21036

PERCOLATION TEST RESULTS, AP - 556668

**REVISED
PERC TEST CERTIFICATION PLAN
LOT 18
LINDEN CHAPEL HILLS**

ALSO KNOWN AS 13535 ARGO DRIVE
PREVIOUSLY RECORDED IN PLAT #3330
TAX MAP: 28 * BLOCK: 14 * PARCEL: 289
5th ELECTION DISTRICT * HOWARD COUNTY, MD



Date	Revisions	Drawn By: BM, MM, VP
9/10/15	Revised perc tests shown & per HO letter	Designed By: LDA
		Reviewed By: LDA
		Date: AUGUST 2015
		Scale: 1" = 30'
		Job No.: 2015074
		Sheet: 1 OF 1

PC556668