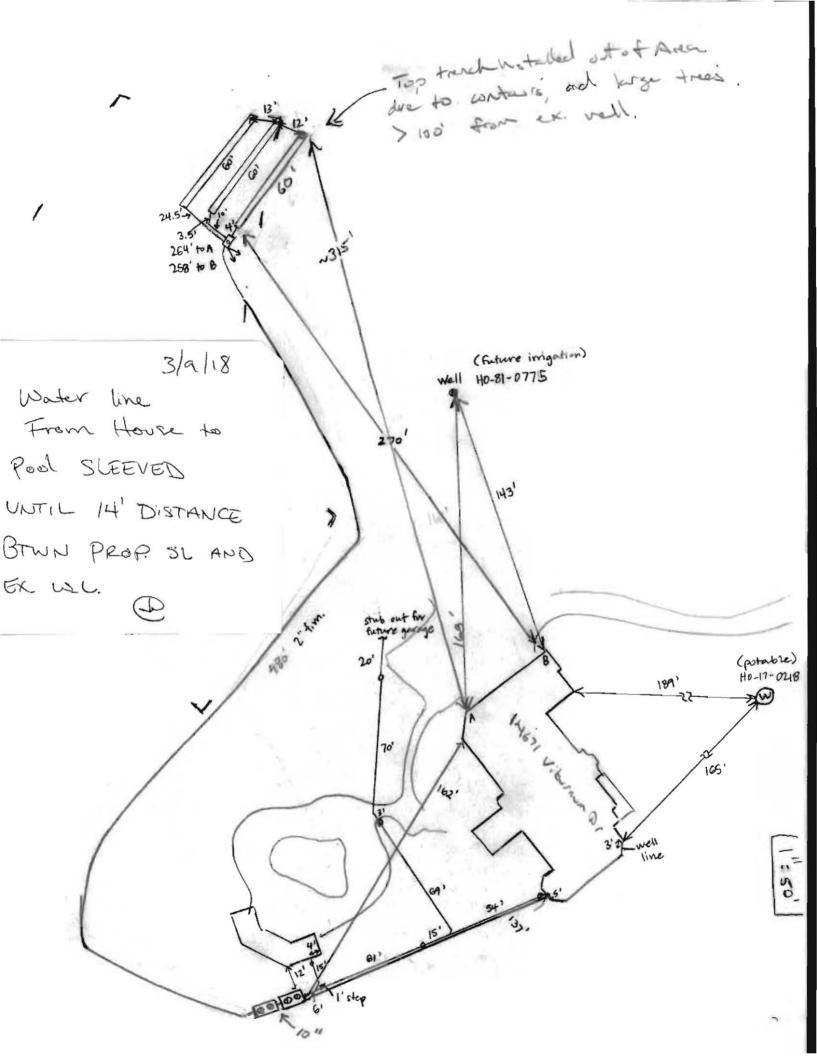
Howard County Health Department	Bureau of Environmental Health 8930 Stanford Boulevard, Columbia, MD 21045 Main: 410-313-2640 Fax: 410-313-2648 TDD 410-313-2323 Toll Free 1-866-313-6300 www.hchealth.org Facebook: www.facebook.com/hocohealth
	Maura J. Rossman, M.D., Health Officer
	SITE SEWAGE DISPOSAL SYSTEM
APPROVAL DATE: 10,25/18 Rm	ERMIT: <u>CONSTRUCTION</u> A
PROPERTY ADDRESS: 14671 Vibur	num Drive
SUBDIVISION: Kalmia Farms, Section	DOT: 20 TAX ID:
CONTRACTOR:	EMAIL:
CONTRACTOR ADDRESS:	PHONE:
PROPERTY OWNER: Johnathan and	Rosanne Calure EMAIL:
OWNER ADDRESS: 5227 Sweet Mead	ow Lane PHONE: 410-598-4165
SEPTIC TANK SIZE (GALLONS): 2000	TANK MANUFACTURER: MBI
PUMP MODEL:	PUMP SIZE PUMP TANK CAPACITY: 2000
DISTRIBUTION SYSTEM: 🛛 GRAV	TY PRESSURE DOSED BEDROOMS: 8 APPLICATION RATE. C.8
LINEAR FEET REQUIRED:	178.5 INLET DEPTH: 3
TRENCHES: TRENCH WIDTH:	3 MAXIMUM BOTTOM DEPTH 8
MINIMUM SPACE BETWEEN TRENCHES:	13 EFFECTIVE AREA BEGINNING DEPTH: 3
PER APPROVED SITE PLAN	. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED CONSTRUCTION INSPECTION.
3×65' +	how then
NOTES:	
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ISSUED BY: Hank Oswald	ISSUE DATE: 1-14-14 EXPIRATION DATE: 1-14-14
	A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
	EALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
NOTE: WATERTIGHT TANKS REQUIRED	
	ALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL ALL SEPTIC TANKS AND PUMP CHAMBERS
And a second s	RED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
	E <u>17605047</u> KS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE DT DISCHARGED TO THE DISPOSAL AREA
	TY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE
	UCCESSFUL OPERATION OF ANY SYSTEM.
	NSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.
CAL	L 410-313-1771 TO SCHEDULE INSPECTIONS.
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See Seperate steet for As-Built	TOTAL LENGTH
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and pump . plarm. (3/14/18 server house connections com	plete. Need pump + alarm.
Y I M	1 1 0
FINAL INSPECTOR DATE OF APPROVAL	10/20/18



LDE, INC. Planning • Engineering • Surveying

January 28, 2017 Mr. Hank Oswald, LEHS Well & Septic Program Bureau of Environmental Health Howard County Health Department 8930 Stanford Boulevard Columbia, MD 21045

RE: Kalmia Farms Section 2, Lot 20 Replacement Dwelling

Dear Mr. Oswald,

Please find three (3) copies of the Onsite Sewage Disposal System design Plan for the above referenced project. An overview of the project is as follows:

- 1. An existing two story dwelling is presently located on the property. The existing septic system was determined to have capacity for 5 bedrooms.
- 2. The owners plan construction of a new three story dwelling, replacing the existing residence, and a pool/spa area.
- The existing dwelling will remain occupied during construction of the replacement dwelling and utilize the existing well and septic system. The planned detached three car garage, near the rear of the existing dwelling will not be constructed during this period.
- 4. Upon completion of the new dwelling and pool/spa, the existing dwelling will be razed and the existing septic system will be abandoned.
- 5. After abandonment of the existing septic system, the new septic system will be installed. Preliminary review of the architectural plans by Robert Bricked determined that the new system must be sized for a minimum of six bedrooms.
- 6. The owners have not decided if the detached three car garage will be constructed or the type of bathroom facilities at this time. If a Powder Room is planned in the garage, a wye connection to the planned system has been provided. The planned system should be adequate and not require expansion.

Should you have any questions, please contact our office.

ery truly yours Bruce D Burton.

LDE. Inc.

Historic Carriage House 7520 Main Street • Suite 203 • Sykesville, MD • 21784 410-795-6391 • 410-795-9540 FAX

Oswald, Hank

From: Sent: To: Subject: Oswald, Hank Wednesday, February 22, 2017 9:45 AM bb121658@gmail.com RE: Septic Plan_14671 Viburnum_Kalmia Farm_Lot2

Hi Bruce:

A couple of questions regarding the OSDS design plan for 14671 Viburnum Drive?

- 1.) The EP05 pump should be sufficient but how do you arrive at 20 gpm on the pump curve? If the total dynamic head is 25 then the pump will yield approximately 33 gpm according to the curve.
- 2.) Is the garage septic line a force main or 4 inch pvc?

There needs to be a clean-out shown every 70 feet on the line. Also, the septic line located underneath the driveway needs to be sleeved.

I could redline the plan to show to indicate a 4 inch line, cleanouts and a sleeve so this plan can be used for the future garage and pool house.

Let me know.

Thanks,

Hank

From: Oswald, Hank Sent: Thursday, February 02, 2017 10:34 AM To: <u>bb121658@gmail.com</u> Subject: Septic Plan_14671 Viburnum_Kalmia Farm_Lot2

Hi Bruce:

Please see attached letter and supporting docs pertaining to the OSDS plan for 14671 Viburnum Drive.

Please contact me with any questions.

Respectfully,

Hank

Hank Oswald, L.E.H.S. Howard County Health Department Bureau of Environmental Health Well & Septic Program 8930 Stanford Boulevard Columbia, MD 21045 410.313.1786 (Office) 410.313.2648 (Fax)

Oswald, Hank

From:Oswald, HankSent:Thursday, February 02, 2017 10:34 AMTo:bb121658@gmail.comSubject:Septic Plan_14671 Viburnum_Kalmia Farm_Lot2Attachments:Septic Layout_14671 Viburnum.pdf; Graph.pdf; OSDS Plan_14671 Viburnum Dr..pdf;
Septic Specs_14671 Viburnum.pdf

Hi Bruce:

Please see attached letter and supporting docs pertaining to the OSDS plan for 14671 Viburnum Drive.

Please contact me with any questions.

Respectfully,

Hank

Hank Oswald, L.E.H.S. Howard County Health Department Bureau of Environmental Health Well & Septic Program 8930 Stanford Boulevard Columbia, MD 2104S 410.313.1786 (Office) 410.313.2648 (Fax)



Bureau of Environmental Health 8930 Stanford Boulevard, Columbia, MD 21045 Main: 410-313-2640 | Fax: 410-313-2648 TDD 410-313-2323 | Toll Free 1-866-313-6300 www.hchealth.org Facebook: www.facebook.com/hocohealth Twitter: HowardCoHealthDep

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

February 2, 2017

LDE Inc. 7520 Main Street Sykesville, MD 21784

Sent via email to: bb121658@gmail.com

RE: 14671 Viburnum Dr. Septic Plan Kalmia Farm, Section 2, Lot 20

Hi Bruce:

This letter is in response to the Septic Plan submitted for 14671 Viburnum Dr. (Kalmia Farm, Section 2, lot 20). Upon review of the plan, a couple of items need to be added or changed on the plan.

Please revise the plan to include the following:

- 1.) Change trench design calculations to match septic specs (see attachment).
- 2.) Place initial and first replacement system at top of SDA (see attachment).
- 3.) If TDH = 25.74, then GPM = 33. This # is based on graph provided on plan. (see attachment).
- 4.) Pump will be EP05
- 5.) Runtime = 150/33 = 4.54 minutes

At building permit stage, floor plans for the house and pool house will be required. Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank Oswald

Hank Oswald, L.E.H.S Bureau of Environmental Health Well & Septic Program

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Suite 203 Sykesville, MD 21784		ATTENDED ATTENDED	JOB 15-004
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If enclosures are not as noted, kindly notify us at once.

LDE, INC. Planning + Engineering + Surveying

February 14, 2017

Mr. Hank Oswald, LEHS Well & Septic Program Bureau of Environmental Health Howard County Health Department 8930 Stanford Boulevard Columbia, MD 21045

RE: Kalmia Farms Section 2, Lot 20 Replacement Dwelling / #B17000327

Dear Mr. Oswald,

Please find three (3) copies of the Onsite Sewage Disposal System design Plan for the above referenced project. In response to your comments of February 2, 2017 and review of the proposed architectural plans, we offer the following:

- 1. Trench calculations and design have been revised to accommodate 8 bedrooms.
- 2. Trench layout has been adjusted to accommodate the initial, first and second replacement systems.
- 3. The design head has increased due to the repositioning of the distribution box. Since the design flow has increased, the force main has increased in size to 2°. This will place the pump discharge within the median output range. The discharge rate is a function of a quantity dose over a prescribed time.
- 4. Pump will remain EP05.
- 5. Pump run time has been revised to 8 minutes.

Should you have any questions, please contact our office.

Very truly yours t/E Bruce D Burton, PE LDE, Inc.

Cc: Mueller Homes

Historic Carriage House 7520 Main Street + Suite 203 + Sykesville, MD + 21784 410-795-6391 + 410-795-9540 FAX

