



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](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 3/11/16

**ONSITE SEWAGE DISPOSAL SYSTEM**

P 558026

APPROVAL DATE: 3/29/16 (SEC)

**PERMIT:**

**REPAIR**

A \_\_\_\_\_

PROPERTY ADDRESS: 17105 Spring Hollow Court

SUBDIVISION: Spring Hollow

LOT: 2

TAX ID: 04-362748

CONTRACTOR: Fogle's Septic Clean Inc.

EMAIL: kevin@foglesinc.com

CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784

PHONE: 410-795-5670

PROPERTY OWNER: Mike Baker

EMAIL: \_\_\_\_\_

OWNER ADDRESS: 17105 Spring Hollow Court, Mount Airy, MD 21771

PHONE: 301-461-5751

SEPTIC TANK SIZE (GALLONS): \_\_\_\_\_

PUMP CHAMBER CAPACITY (GALLONS): \_\_\_\_\_

PUMP SIZE: \_\_\_\_\_

NUMBER OF BEDROOMS: 6

HOUSE SQ. FT. \_\_\_\_\_

APPLICATION RATE: \_\_\_\_\_

DISTRIBUTION SYSTEM: GRAVITY FED ☐

LOW PRESSURE DOSED ☐

TRENCHES:	LINEAR FEET REQUIRED: _____	INLET DEPTH: _____
	TRENCH WIDTH: _____	MAXIMUM BOTTOM DEPTH: _____
	MINIMUM SPACE BETWEEN TRENCHES: _____	EFFECTIVE AREA BEGINNING DEPTH: _____
LOCATION:	TO BE STAKED BY SANITARIAN DURING PRE-CONSTRUCTION INSPECTION.	
NOTES:	Properly abandon existing septic tank & install new HCHD 3NA H-600 BAT unit. Additionally install separate line from water softener inside house to new trench. See BAT plan for details	

ISSUED BY: H. D. Swald

ISSUE DATE: 3/11/16

EXPIRATION DATE: 3/11/17

**NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION**

**NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING**

**NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.**

**NOTE: WATERTIGHT SEPTIC TANKS REQUIRED**

**NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADE FROM ANY WATER WELL**

**NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS**

**NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM**

☐ ELECTRICAL PERMIT ISSUED E 16001376

**NOTE: THE HCHD DOES NOT WARRANTY ANY SYSTEM AND CANNOT GUARANTEE THE PERFORMANCE OF THIS SYSTEM AS DESIGNED. BY ACCEPTING THIS PERMIT, THE OWNER AND/OR APPLICANT ACKNOWLEDGE THAT THE SPECIFICATIONS DETAILED IN THIS DESIGN ARE ONE POSSIBLE OPTION AND THAT THE HCHD WILL REVIEW OTHER PROPOSALS. YOU HAVE THE OPTION TO SEEK THE ADVICE OF A QUALIFIED DESIGN CONSULTANT OR PROFESSIONAL ENGINEER FOR FURTHER GUIDANCE.**

**NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA**

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.**

**PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.**

**CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**





**MAYER BROS., INC.**

Precast Concrete Products  
6264 Race Rd. Elkridge, MD 21075

## Letter of Satisfaction Hoot System Installation

Address of Property: 17105 Spring Hollow Ct.  
MT. Airy, MD, 21797

Date of Final Inspection: 3/25/16

Installer: Eagles Septic

Hoot Technician/Inspector: Mike Sample

I hereby certify that the Hoot system installed at the property listed above has been installed according to proper Hoot installation practices. I have also verified the startup of the system and it is in proper working order.

time-dosed:

recirc. 3 mins

pump 1 min.

1x every 2 hrs.

short + frequent dose

Sincerely,

H. Michael Dyer  
Name of Inspector  
Mayer Bros., Inc.

PH: 410-796-1434

FX: 410-796-1438

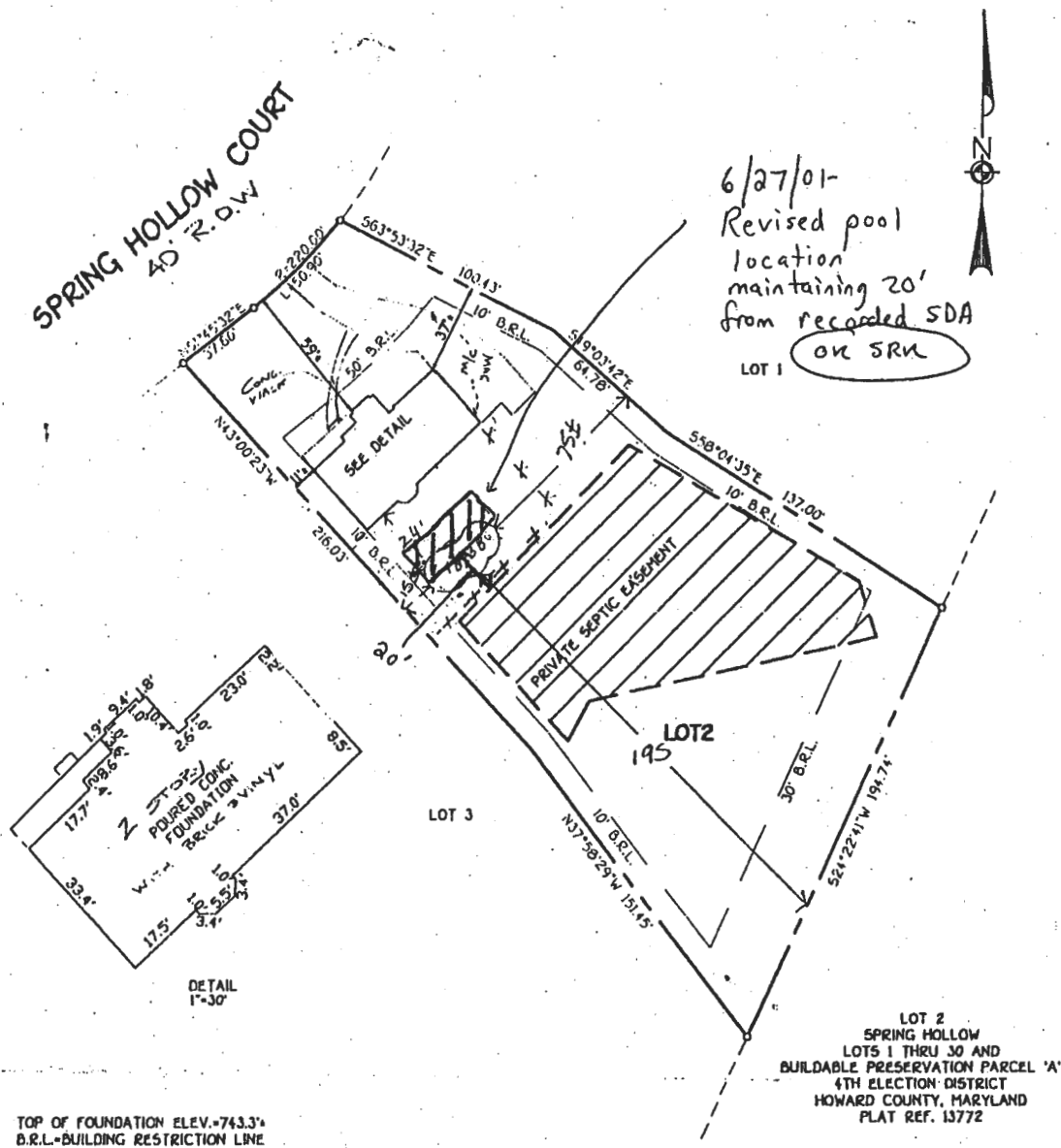
**WBE**  
**NPCA Certified Plant**

mayerbro@connect.net  
www.mayerbrosprecast.com

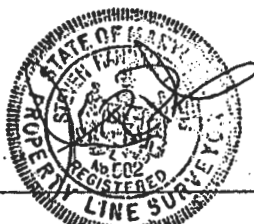
Grease Interceptors, Grease Solutions, Aerobic Treatment Units, Septic Tanks, Holding Tanks, Storm Water Structures, Hydroceptors,  
Bench Barrier, Water Meter Vaults, Sectional Valve Vaults, Top Slabs, Curb Heads, Curb Bumpers, PermEntry Basement Entries,  
Scapewell Window Wells, Custom Precast Products

## GENERAL NOTES:

- 1) THIS PLAT IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR RE-FINANCING. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS PLAT IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS PLAT DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINE, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING OR RE-FINANCING.
- 2) SUBJECT PROPERTY IS SHOWN IN ZONE C ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 210044 0007, EFFECTIVE DATE: DEC. 1, 1996.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF 0.5' PLUS OR MINUS (±).



**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE TWICE PARK - 10272 BALTIMORE NATIONAL PK.  
ELKCHIT CITY, MARYLAND 21042  
(410) 461-2055



PROFESSIONAL LAND SURVEYOR  
REG. # 686

11/5/01  
DATE

## HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 1/17/00  
FINAL LOCATION: 1/5/01  
BOUNDARY SURVEY:

SCALE: 1"=60'  
DATE: 1/18/00  
DRAWN BY: L.P.E.  
CHECKED BY: C.C.  
PROJECT No. 61434

## Oswald, Hank

---

**From:** Kevin Davis <kevin@foglesinc.com>  
**Sent:** Monday, March 14, 2016 7:59 AM  
**To:** Oswald, Hank  
**Cc:** Karen@transformingarchitecture.com  
**Subject:** Hoot specs for 17105 Spring Hollow Ct.  
**Attachments:** Hoot BBlaster.pdf; Hoot Details.pdf

Hank,

Attached are some specs for the HOOT system for 17105 Spring Hollow Ct.  
The pump included with this unit is the 20EB blaster pump. Pump curve and specs are also attached.

Let me know if you need anything further

Kevin Davis  
Fogle's Septic Clean  
240.278.8925 cell  
410.795.5670 office

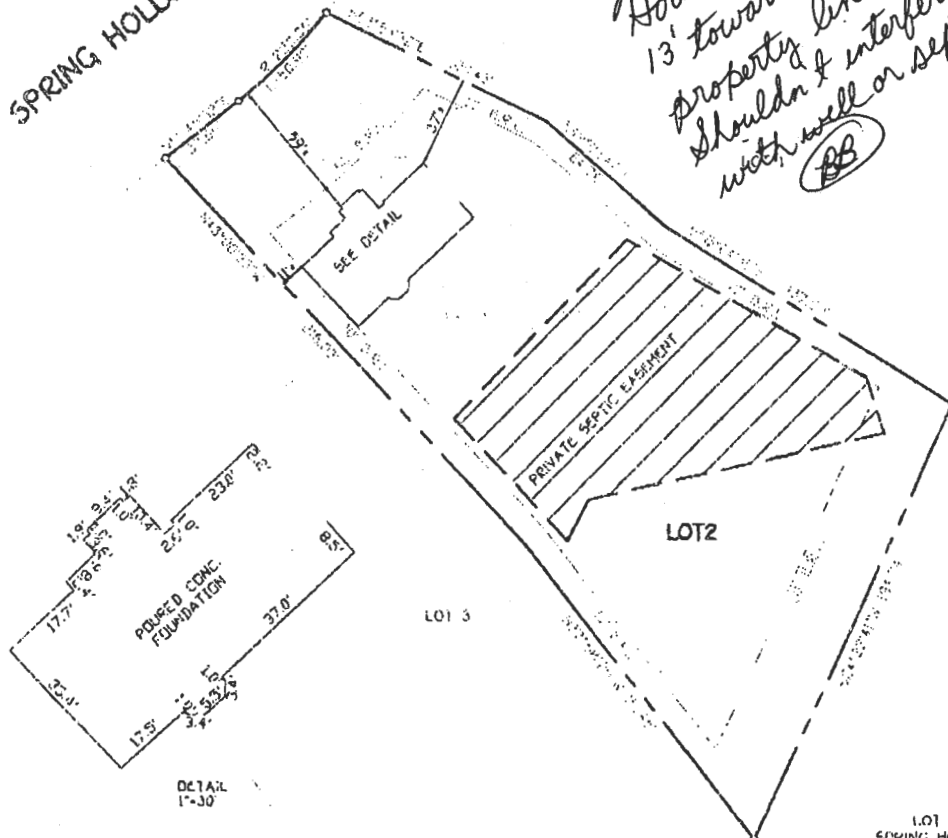
# GENERAL NOTES:

- THIS PLAT IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM, INASMUCH AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR RE-FINANCING. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS PLAT IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS PLAT DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINE, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING OR RE-FINANCING.
- SUBJECT PROPERTY IS SHOWN IN ZONE C ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 240044 9002, EFFECTIVE DATE DEC. 1, 1986.
- THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF 0.5' PLUS OR MINUS (0).

SPRING HOLLOW COURT

4/6/00

House moved  
13' toward right  
property line.  
Shouldn't interfere  
with well or septic.  
BB



LOT 2  
SPRING HOLLOW  
LOTS 1 THRU 30 AND  
BUILDABLE PRESERVATION PARCEL 1A  
4TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
PLAT REF. 13772

TOP OF FOUNDATION SURV. 7433  
PER BUILDING RESTRICTION LINE

JOHN COLLINS & CARTER, INC.  
SURVEYING, ENGINEERING & LAND SURVEYORS  
1727 BULLWORMS ROAD, SUITE 100  
BETHESDA, MD 20814  
(301) 461-3605



PROFESSIONAL LAND SURVEYOR  
REG. 10763  
DATE 4/2/00

## HOUSE LOCATION DRAWING

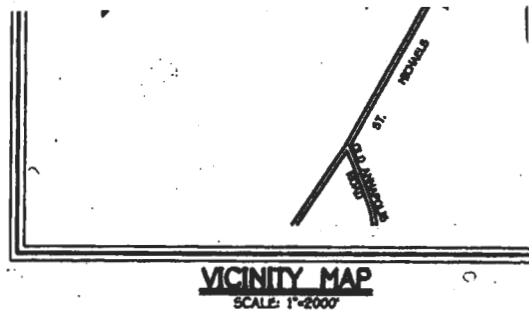
FOUNDATION LOCATION: 12/22/00  
FINAL LOCATION:  
BOUNDARY SURVEY:

SCALE: 1"=60'  
DATE: 3/18/00  
DRAWN BY: J.P.C.  
CHECKED BY: C.C.  
PROJECT No. 51431

FCC

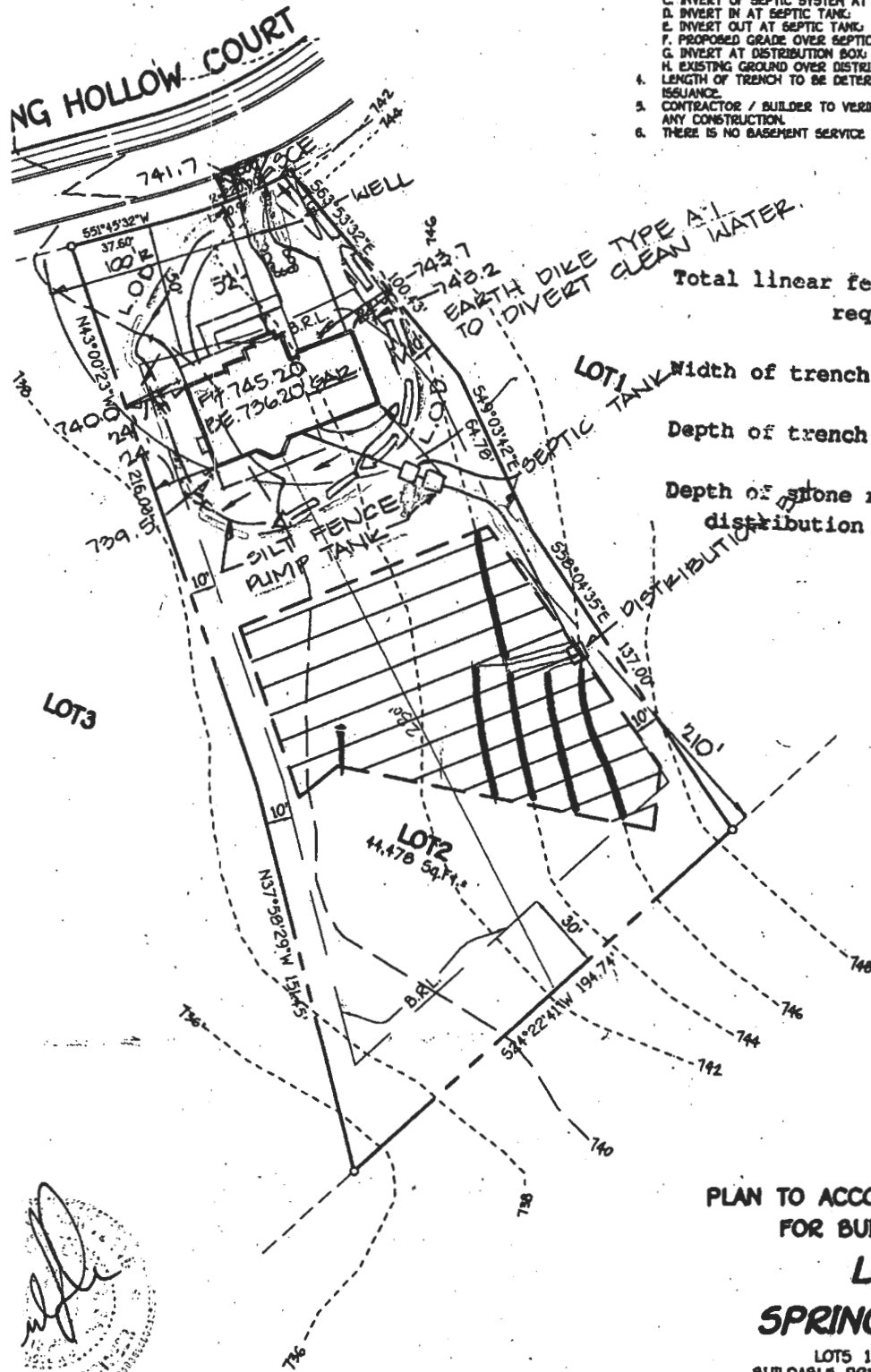
Approved Septic System Plan  
Howard County Health Department

Ami F. Miller 11/24/99  
Signature Date



**GENERAL NOTES**

1. SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT
2. PROPOSED 1500 GALLON SEPTIC TANK
3. A. FIRST FLOOR ELEVATION  
B. BASEMENT ELEVATION  
C. INVERT OF SEPTIC SYSTEM AT HOUSE: 739.5  
D. INVERT IN AT SEPTIC TANK: 739.0  
E. INVERT OUT AT SEPTIC TANK: 738.7  
F. PROPOSED GRADE OVER SEPTIC TANK: 743.0  
G. INVERT AT DISTRIBUTION BOX: 743.00  
H. EXISTING GROUND OVER DISTRIBUTION BOX: 746.00  
I. LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE
5. CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION
6. THERE IS NO BASEMENT SERVICE TO SEPTIC SYSTEM



Total linear feet of trench required 280 feet

Width of trench(es) 3.0 feet

Depth of trench(es) 5.0 feet

Depth of stone required below distribution pipe 2.0 feet

PLAN TO ACCOMPANY APPLICATION  
FOR BUILDING PERMIT

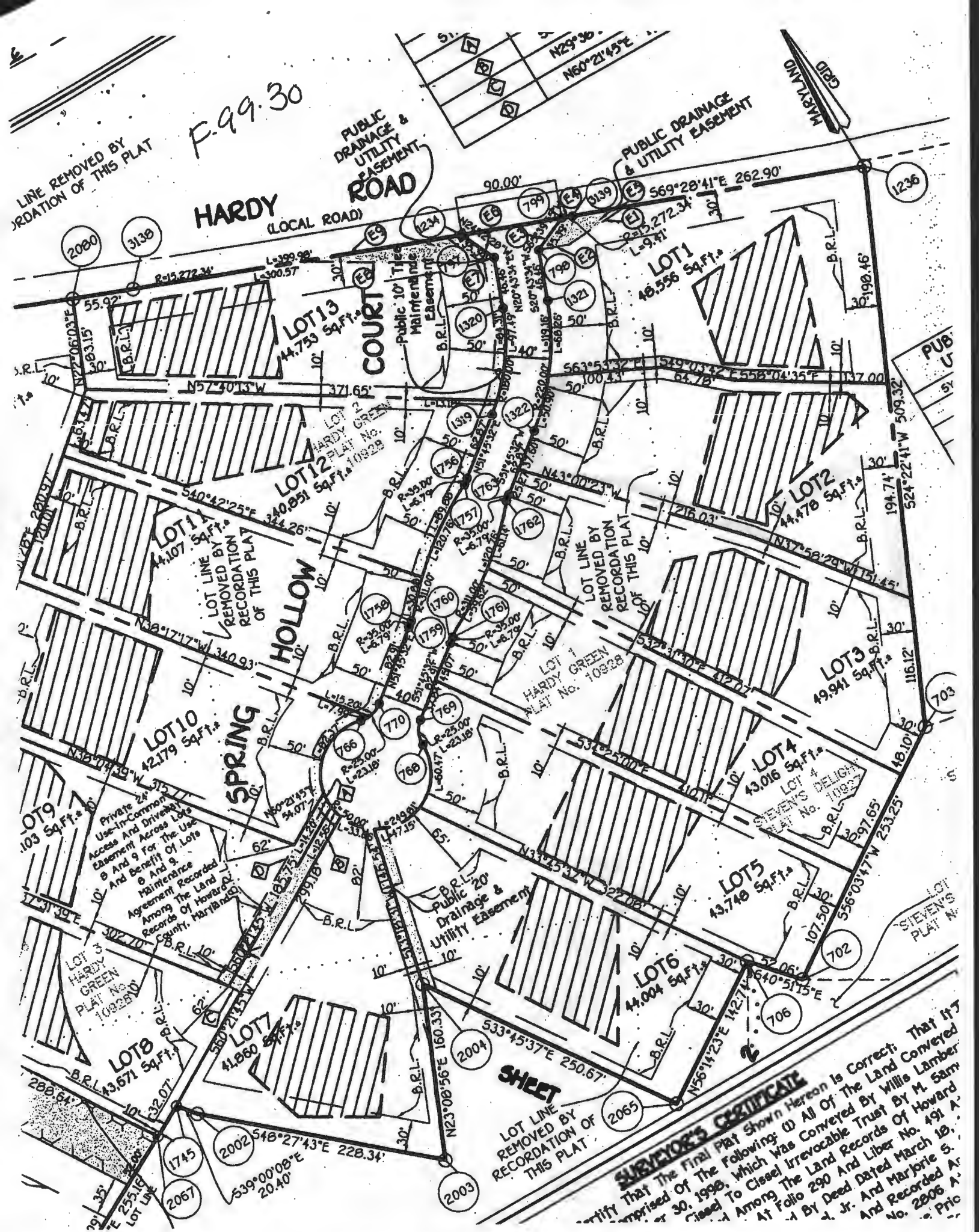
**LOT 2**

**SPRING HOLLOW**

LOTS 1 THRU 30 AND  
BUILDABLE PRESERVATION PARCEL 'A'  
ZONED: RC-DEO

TAX MAP NO. 7 PARCEL NOS. 38,144,341,394 AND 522.







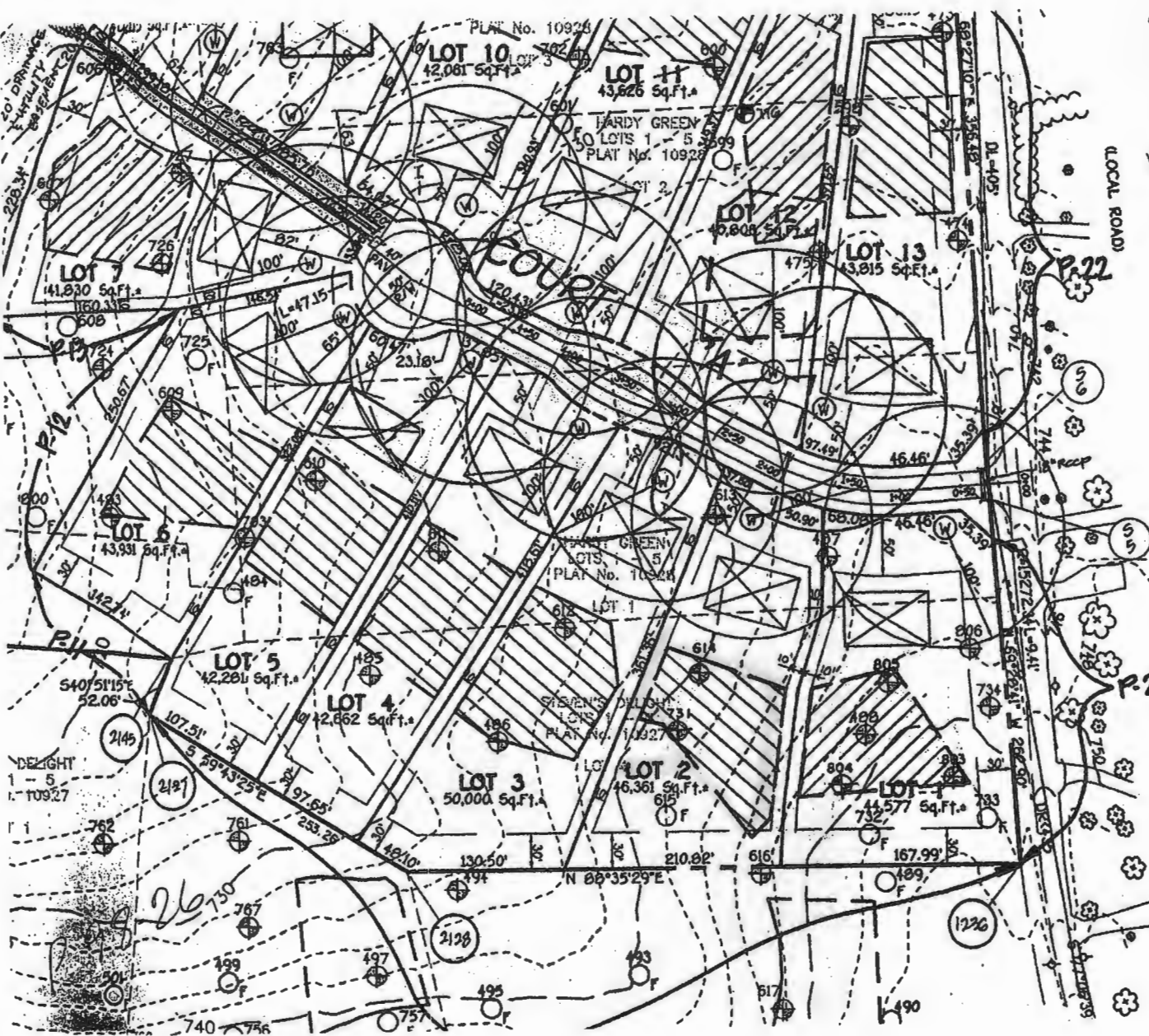
EDY

LOCAL ROAD

N 60°25'0" E 1,281.250'

ROAD

E CURB  
P.C. 518.1-19.90



20' DRAINAGE  
ELEVATION  
50.00

DEIGHT  
1-5  
P.10927

26-130

PLAT No. 10926

LOT 10  
42,061 Sq.Ft.

LOT 11  
43,626 Sq.Ft.

HARDY GREEN  
LOTS 1-5  
PLAT No. 10928

LOT 12  
45,808 Sq.Ft.

LOT 13  
43,815 Sq.Ft.

LOT 7  
41,830 Sq.Ft.

LOT 6  
43,931 Sq.Ft.

LOT 5  
42,281 Sq.Ft.

LOT 4  
42,862 Sq.Ft.

LOT 3  
50,000 Sq.Ft.

LOT 2  
46,361 Sq.Ft.

LOT 1  
44,577 Sq.Ft.

SEVEN'S DELIGHT  
LOTS 1-5  
PLAT No. 10927

N 88°35'29" E

DL-105

P.22

S 9

S 9

S 9

P.23

1226

1490

2128

499

740

26-130

20' DRAINAGE  
ELEVATION  
50.00

SITE INFO:  
 17105 SPRING HOLLOW COURT  
 MT. AIRY, MD 21771  
 LOT 2  
 PARCEL: 0528  
 ELECTION DISTRICT: 4  
 HOWARD COUNTY  
 ZONED - RC-DEO

DISTRIBUTION  
 BOX

524°22'41"W 194.74'

30' BRL

N37°58'29"W 151.45'  
 TRB .01

PRIVATE SEPTIC  
 EASEMENT

N43°00'23"W 216.03'  
 TRB .01

PUMP  
 TANK  
 SEPTIC  
 TANK

PROPOSED  
 GARAGE

EX HOUSE

50' BRL

EXISTING  
 WELL

SITE PLAN

A-4

SCALE: 1" = 50'

R=222.00' N51°45'32"E  
 L=50.90' 37.60'

SPRING HOLLOW CT

ARCHITECT

13662



exp. 10/22/17



7612 Browns Bridge Rd  
 Highland, MD 20777  
 301-776-2666  
 301-776-2886 fax  
 1-877-828-7267  
 info@TransformingArchitecture.com  
 www.TransformingArchitecture.com

The Baker Residence

17105 Spring Hollow Ct. Mt. Airy, MD 21771

SCALE: AS NOTED

DATE: 02-05-16

PROJECT No: 11-069



17105 Spring Hollow  
Kenna w/ Fuglies  
240-278-8925  
H<sub>2</sub>O softener Discharge  
(~100-160 gallons/week)  
Avg - 38-40g/2x week

## Oswald, Hank

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**From:** Oswald, Hank  
**Sent:** Tuesday, February 16, 2016 1:03 PM  
**To:** 'Karen Pitsley, AIA'  
**Subject:** RE: 17105 Spring Hollow Septic Issue  
**Attachments:** BAT Site Plan Requirements.pdf

Hi Karen:

My phone is currently down. To receive BP approval by the Health Department, the septic tank and pump tank would have to be upgraded to a BAT unit designed for 6 bedrooms and pump tank capable of handling one day of emergency storage for a 6 bedroom house (Under current standards, septic systems are designed by # of bedrooms - COMAR 26.04.02). The existing trenches are large enough to accommodate 6 bedrooms so nothing has to be done with them. In addition to the tank and pump tank upgrades, we need to see how one replacement trench system will fit inside the existing sewage disposal area. This information would have to be outlined on a BAT Plan usually designed by an engineer for review and approval. Please see attached BAT Plan requirements. Also, a septic permit and inspection will also be required by this office for this upgrade. Should you have any questions, please don't hesitate to ask

Hank

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**From:** Karen Pitsley, AIA [mailto:karen@transformingarchitecture.com]  
**Sent:** Tuesday, February 16, 2016 10:11 AM  
**To:** Oswald, Hank  
**Cc:** 'Baker, Mike (Hunt Valley)'; 'Claudine Baker'; 'Bernadette Roussel'; 'Paul Lewis'  
**Subject:** 17105 Spring Hollow Septic Issue

Hank,

I left a message, but I have several questions about this property and what we can do to keep moving forward. Please call me when you get a chance. 301-776-2666.  
See history below.

Warm regards,

*Karen Pitsley, AIA, CAPS*  
President, Transforming Architecture

2015, 2013 & 2011 Maryland's Top 100 Women  
2014 Top 100 MBE in Mid-Atlantic Region  
2012 Woman of Distinction, Business Women's Network of Howard County  
2011 Innovator of the Year

301-776-2666  
[www.TransformingArchitecture.com](http://www.TransformingArchitecture.com)  
[Houzz.com Profile](#)

Do we know if the septic tank is the issue that HoCo is citing? How can we work around this issue? To gain a full understanding of the options, how much is a 2000 gallon septic tank, installed? I presume we would need another permit for this? Obviously, if this ends up being the solution, we would want to do this before Paul starts (or gets too far along with) the garage. Any other considerations?

-Mike

---

**Michael S.**

**Baker**

Department Manager

Environmental & Transportation Planning

Environmental Construction Management

D +1-410-891-9222

M +1-443-286-1780

[mike.baker@aecom.com](mailto:mike.baker@aecom.com)

**AECOM**

4 North Park Drive, Suite 300

Hunt Valley, Maryland 21030, United States

T +1-410-785-7220

[aecom.com](http://aecom.com)

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[LinkedIn](#) [Twitter](#) [Facebook](#) [Instagram](#)

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## Oswald, Hank

---

**From:** Oswald, Hank  
**Sent:** Wednesday, February 10, 2016 2:12 PM  
**To:** 'Paul Lewis'  
**Subject:** RE: B16000185\_17105 Spring hollow Court\_Floor Plans for the Remaining House

Hi Paul:

The existing system is currently sized for 4 bedrooms. The floor plan shows a total of 6 bedrooms. Before this office can approve the building permit, the septic system would have to be upgraded to a BAT unit sized for 6 BR's and a pump tank capable of handling 1 day of emergency storage. The existing trenches are sized properly for the proposed use but we will need to see how one replacement system will fit inside the existing sewage disposal area (SDA).

Should you have any questions, please don't hesitate to ask.

Hank

---

**From:** Oswald, Hank  
**Sent:** Tuesday, February 09, 2016 3:32 PM  
**To:** 'Paul Lewis'  
**Subject:** RE: B16000185\_17105 Spring hollow Court\_Floor Plans for the Remaining House

The floor plan needs to include windows, full and half bathrooms, and rooms in the house. It can be hand drawn. A list will not suffice.

Thanks,

Hank

**From:** Paul Lewis [<mailto:lewisandassociatescontracting@gmail.com>]  
**Sent:** Tuesday, February 09, 2016 2:28 PM  
**To:** Oswald, Hank  
**Subject:** Re: B16000185\_17105 Spring hollow Court\_Floor Plans for the Remaining House

Hank,

How detailed do you need this floor plan? Would a list of the number of bathrooms and half bathrooms suffice?

Paul Lewis

Lewis & Associates Contracting, LLC  
10611 Gramercy Place Unit 124  
Columbia, MD 21044  
443-597-2657

On Feb 9, 2016 11:57 AM, "Oswald, Hank" <[hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)> wrote:

Paul Lewis:



Thank you for submitting the revised site plan & floor plan for the first floor plus changes to existing garage. In order to determine if the existing septic system is sized properly for the existing house plus proposed changes, this office will also need to see a floor plan of the existing basement and second floor.

Should you have any questions, please don't hesitate to ask.

Thanks,

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)

SITE INFO:  
17105 SPRING HOLLOW COURT  
MT. AIRY, MD 21771  
LOT 2  
PARCEL: 0528  
ELECTION DISTRICT: 4  
HOWARD COUNTY  
ZONED - RC-DEO

DISTRIBUTION  
BOX

PRIVATE SEPTIC  
EASEMENT

PUMP  
TANK  
SEPTIC  
TANK

PROPOSED  
GARAGE

EX HOUSE

EXISTING  
WELL

**SITE PLAN**

A-4

SCALE: 1" = 50'

R=222.00' N51°45'32"E  
L=50.90' 37.60'

SPRING HOLLOW CT

ARCHITECT

13662



KAREN LYNN PITSLEY  
STATE OF MARYLAND

exp. 10/24/17



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301-776-2666  
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**The Baker Residence**

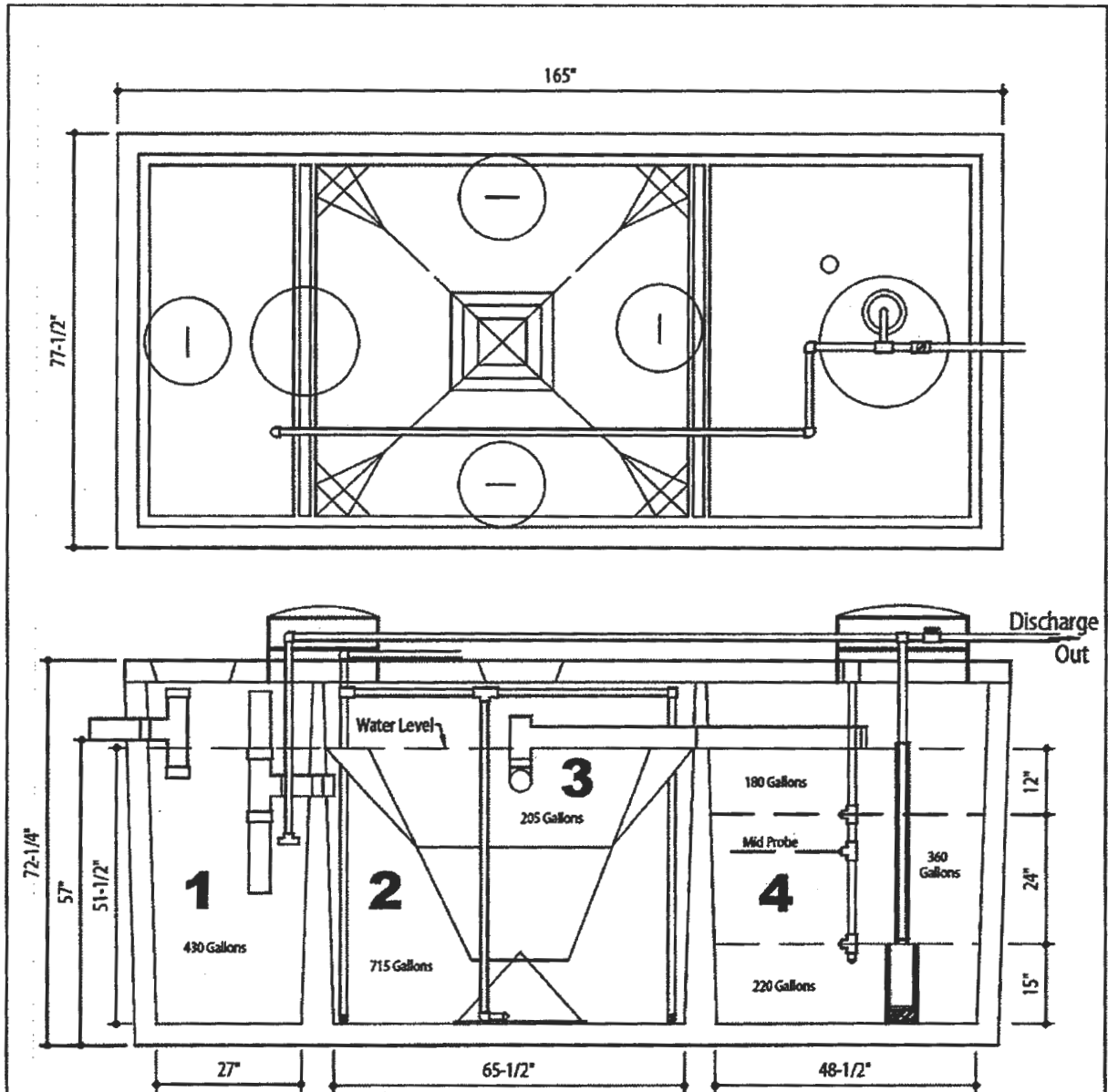
17105 Spring Hollow Ct. Mt. Airy, MD 21771

SCALE: AS NOTED

DATE: 02-05-16

PROJECT No: 11-069

## I. HOW THE HOOT SYSTEM WORKS



### DESIGN DATA & GENERAL NOTES

- [1] Concrete strength  $f'c=4,000$  p.s.i. @ 28 days. Density = 150 pcf.
- [2] Cement - Portland Type I/II per ASTM C 150-92.
- [3] Admixtures & plasticizers per ASTM C 260-86 & C 494-92.
- [4] Reinforcing per ASTM A185. Min. 1-1/2" cover.

**Mayer Brothers, Inc.**

6264 Race Road  
Elkridge, Maryland 21075  
Tel. 410.796.1434  
Fax. 410.796.1438  
www.mayerbrosprecast.com



**600 GPD BNR SYSTEM  
H-600 ABNR**

**with 750 GALLON PUMP CHAMBER**

Dwg. No. Hoot Form #1

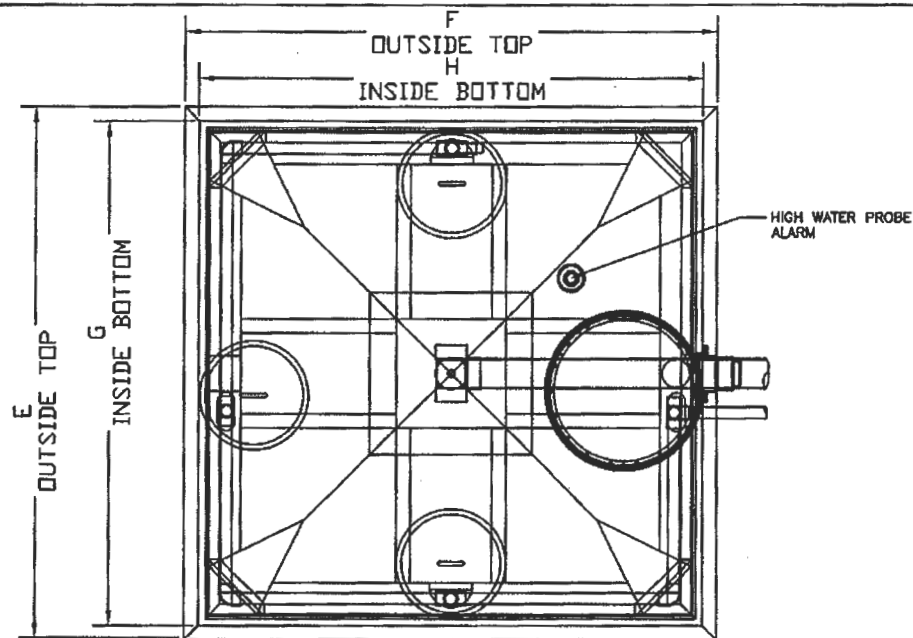
No Scale

March 19, 2009

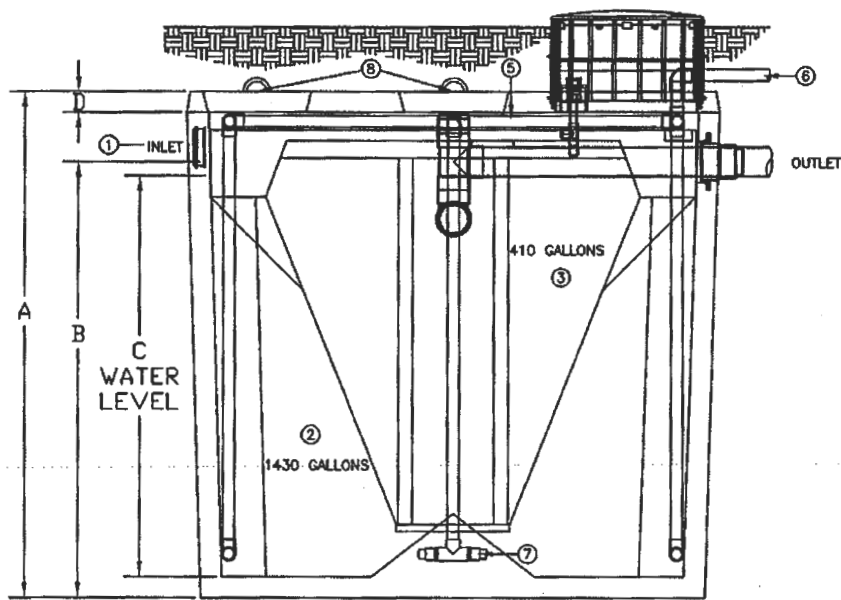
# GENERAL HOOT INFORMATION

## VERY IMPORTANT

1. Electrical requirements: 110V 30 AMP (NOT 20 AMP) with a stand-alone breaker. Less than 30 AMPS will cause the system to malfunction.
2. Probes should be installed according to the following site evaluations:
  - a. If there is less than 15" of cover over tank, install standard probe in top of tank as usual (through precut 3" opening in top of tank).
  - b. If there are 15" to 36" of cover over tank, install probe inside the riser, and seal the precut probe opening with a 3" cap.
  - c. **If the tank is more than 50' from the control panel, a Float Probe must be installed.** Please call Mayer Bros. in advance to order parts and discuss.
3. **DO NOT GLUE** the sensor probe staff into the 3" collar cast into the lid, since it may need to be removed for inspection or repair. Tapping it firmly into the sleeve is sufficient.
4. **USE ONLY SILICON II** (Silicon I gives off gas when drying, which may cause flame.)
5. **Locating Control Panel:** All systems ordered from Mayer Bros. include a Remote Mounting Kit for the control panel, to mount the panel remotely from the tank (usually at the house). If the tank is located within 100' of the house, attach the Control Panel box to the house (preferably in an area where the homeowner will see and hear the alarms). If the tank is further than 100' from the house, the panel should be mounted at tank location - typically on a **Panel Pole** (...a 2x10 plank of treated lumber 10' long, inserted vertically along the side of the excavated tank and backfilled in place, leaving 3-4 feet above grade on which to mount the panel.) The length of wires attached to the probe staff determines where the panel should be located. **THESE WIRES CANNOT BE SPLICED.**
6. Locate the Blower adjacent to the Control Panel, for ease of operation & maintenance. It must be within 100' of the tank location to assure sufficient air pressure.
7. Maryland Distributor BNR Hoot System Tank Dimensions:
  - a. Width at Top Slab: 77.5"
  - b. Length at Top Slab: 165"
  - c. Overall Height: 72.25"
  - d. Bottom of Tank to Bottom of Inlet: 57.5"
8. All *PolyLok* Risers over the trash/aeration chamber (20" dia) and pump chamber (24" dia) must be brought to grade with Riser extensions. Grade should be finished so that homeowner can mow over them.
9. Versions of the Control Chip located in the Control Panel box are as follows:
  - a. Version Universal 1.02 (all installations since May 2009)
10. Version 6.98 BNR (units older than May 2009)



PLAN VIEW



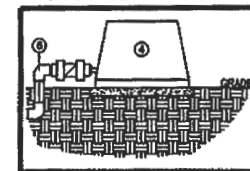
SIDE ELEVATION

REVISIONS	DESCRIPTION

CRITICAL DIMENSIONS

A	80.00"
B	70.25"
C	65.00"
D	4.00"
E	92.00"
F	92.00"
G	80.00"
H	80.00"

TROY AIR BLOWER



THE HOOT ANAEROBIC TREATMENT SYSTEM

- 1) SEPARATE PRETREATMENT TANK REQUIRED (MIN. 800 GALLONS) - WHERE ANAEROBIC DIGESTION OCCURS AND STORAGE FOR NON-BIODEGRADABLE MATERIALS.
- 2) AERATION CHAMBER - WHERE AIR IS INTRODUCED INTO SEWAGE FOR DIGESTION.
- 3) CLARIFIER - A STILL CHAMBER WHERE SOLIDS SETTLE OUT AND THE CLEAR EFFLUENT RISES.
- 4) TROY AIR LINEAR AIR BLOWER - LONG LIFE, EFFICIENT LINEAR BLOWER WHICH COMPRESSES ATMOSPHERIC AIR AND UNDER PRESSURE DELIVERS IT TO THE TANK. MAY BE REMOTELY MOUNTED UP TO 50' FROM SYSTEM. MUST MAINTAIN 1/8" SLOPE TOWARDS TANK FOR DRAINAGE TO TANK.
- 5) AIR MANIFOLD - DELIVERS THE AIR FROM THE LINE TO THE STONES FOR DIFFUSION INTO THE SEWAGE.
- 6) AERATION LINE - DELIVERS THE AIR FROM THE PUMP TO THE MANIFOLD. CHECK VALVE INCLUDED.
- 7) AERATION STONE - AIR IS FINELY DIFFUSED FROM THE STONE INTO THE AERATION CHAMBER.
- 8) 18" COVERS - PROVIDE ACCESS TO EACH COMPONENT OF THE SYSTEM FOR REPAIR AND ARE BROUGHT TO GRADE IF REQUIRED PER LOCAL CODE.



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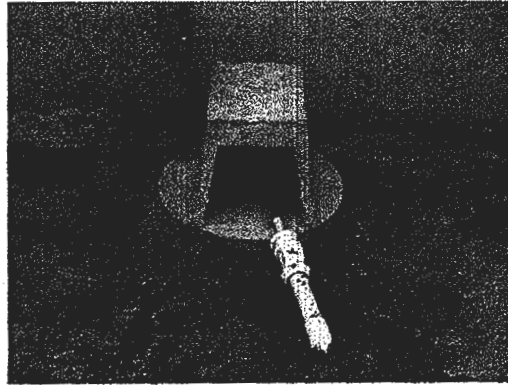
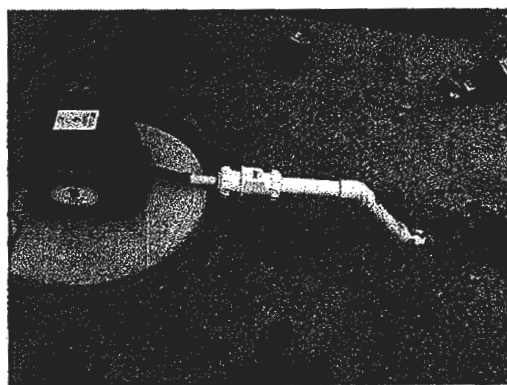
DESCRIPTION: 1000 GPD GRAVITY DISCHARGE SYSTEM  
H-1000-A w/ POLYLOK ACCESS 4" WALLS

PART #

H-1000-A

DATE: 9-11-10  
DRAWN BY: AY  
CHECK BY: RS  
SCALE: N.T.S.

- j. If the 90 degree bends line up, then **prime and glue** the pieces in place.
- k. **Measure** the distance between the 90 degree bends, and cut piping to connect them. (NOTE: This section of pipe is useful in supporting the check valve to best advantage. While the blower itself should always rest firmly on the level pad, the check valve should be not be touching the concrete pad. The vibrations caused by air flowing through it can cause it to rub against the concrete and wear out prematurely. Use the vertical pipe coming up from the trench to support the valve a little above the concrete pad. To accomplish this, the air pipe itself must be well supported from underneath in the trench, particularly underneath the 45 or 90 degree bend turning upward. Tamp the earth well in this area, or place a brick under the end of the pipe.)



Installing the air blower and connecting it to the air pipe.

- l. **Prime and glue in place**, once all is right.

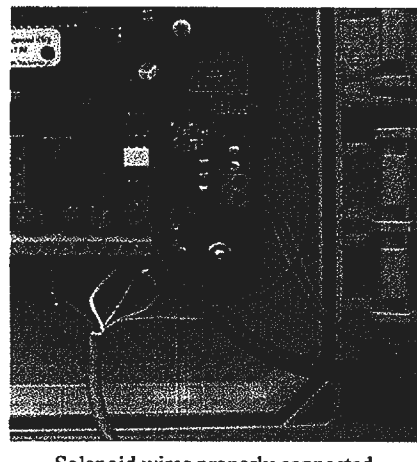
**Attach the back-pressure hose:**

- m. **Locate** the small black rubber hose line that is wound up inside the control panel. **This is the back-pressure hose that will connect to the blower, and enable the control panel to monitor the amount of air being pumped into the aeration chamber. For the system to function properly, it MUST be installed correctly.**



## 16. WIRING THE RECIRCULATION SOLENOID IN THE PANEL

- a. **Locate** the two remaining wires that you have pulled into the panel for the recirculation solenoid.
- b. **Locate** the small solenoid terminal on the control panel door.
- c. Strip back each wire  $\frac{1}{4}$ " and twist very tightly. (REMINDER: Leave enough wire inside so that the door can be fully opened, but not so much that it will interfere with panel operation.)
- d. Insert the two wires into either terminal point and secure. (NOTE: It does not matter which way you connect these two wires, since the current here is D.C.)

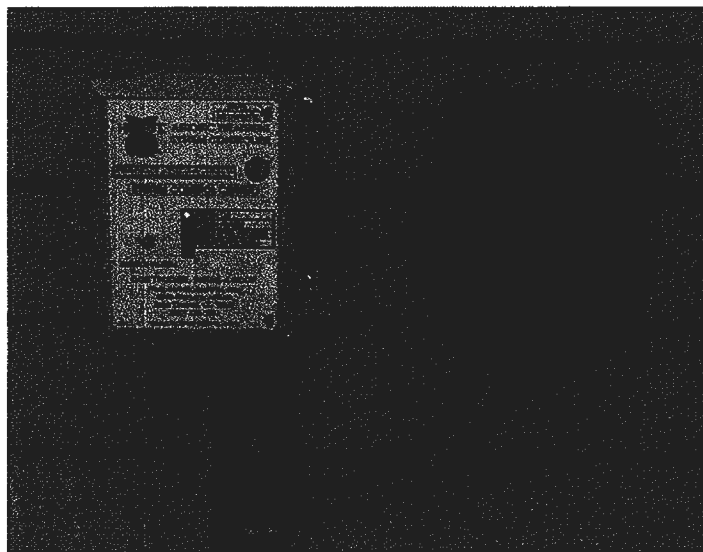


Solenoid wires properly connected

(REMINDER: Always use standard wire – not solid – so that it is flexible.)

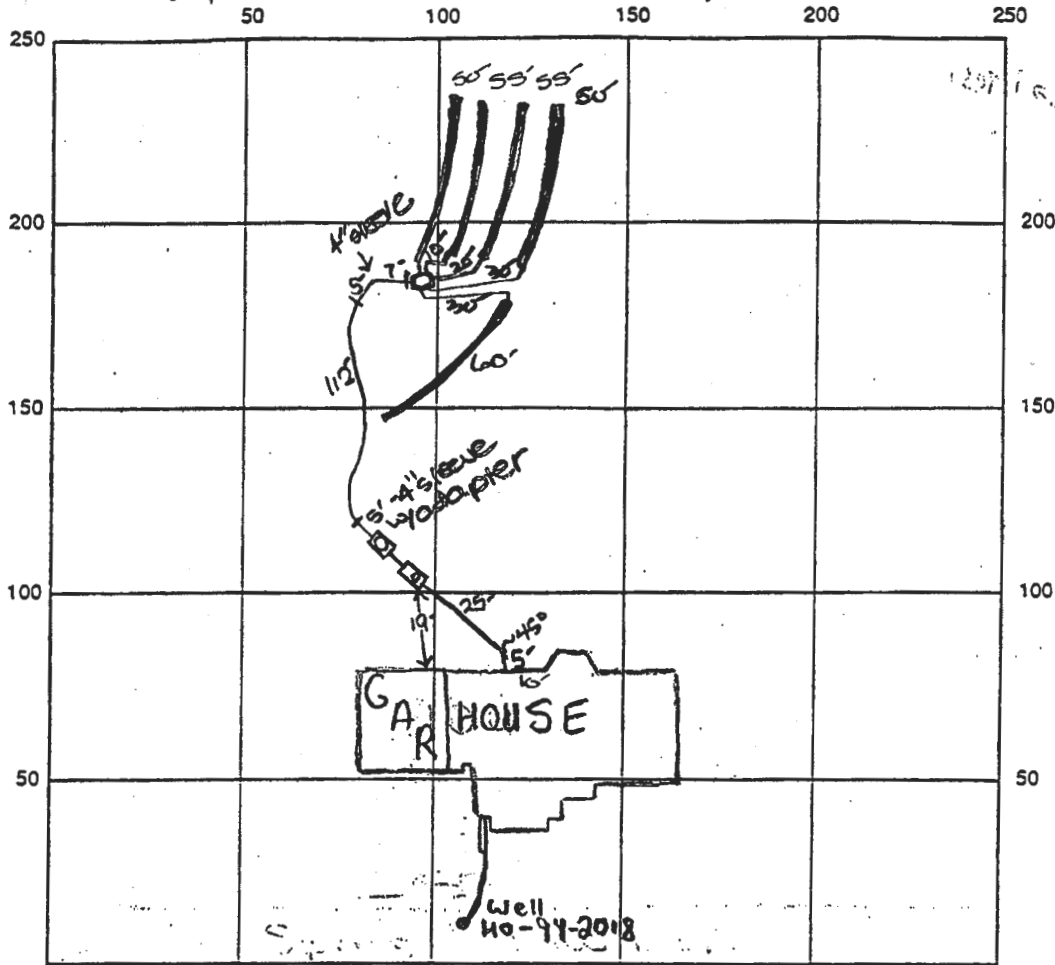
## 17. CLOSE AND SECURE THE CONTROL PANEL DOOR.

- a. **Silicone** all conduit penetration points where the wires entered to keep out pests, moisture, and gases. Wiggle wires to make certain seals are complete.
- b. Tuck all the wires in neatly, close and secure the panel door.
- c. Leave the quick disconnect power disconnected. The startup technician will do this.
- d. Before leaving make certain the 30 AMP breaker inside the house is ON.



Completed control panel installation

NOT TO SCALE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE  
SPRING HOLLOW COURT

SEPTIC TANK LEVEL OK-1250 gal p.p.s.t. CLEANOUTS one on s.t., manhole on PP

DISTRIBUTION BOX LEVEL OK

DRAIN FIELD/TILE DEPTH 5 FT. TRENCH WIDTH 3 FT. INLET DEPTH 3 FT.

EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH 280 FT.

NUMBER OF TRENCHES 5 ~~ONE SIDEWALL~~ BOTTOM AREA 840 SQ. FT.

DRYWELL INSIDE DIAMETER N/A FT. EFFECTIVE DEPTH BELOW INLET N/A FT.

ABSORBENT AREA N/A SQ. FT.

REMARKS: 4/20/00 OK to cover all septic work. Need pump  
performance test for final approval. DKS

1/4/01 PUMP/ALARM OK (MR)

DATE SYSTEM APPROVED

1/4/01

INSPECTOR

M. R. P. Kin

**SITE INFO:**

17105 SPRING HOLLOW COURT  
MT. AIRY, MD 21771  
LOT 2  
PARCEL: 0528  
ELECTION DISTRICT: 4  
HOWARD COUNTY  
ZONED - RC-DEO

DISTRIBUTION  
BOX

524°22'41"W 194.74'

30' BRL

N37°58'29"W 151.45'  
788.01'

PRIVATE SEPTIC  
EASEMENT

PUMP  
TANK

SEPTIC  
TANK

PROPOSED  
GARAGE

EX HOUSE

50' BRL

EXISTING  
WELL

**SITE PLAN**

A-4

SCALE: 1" = 50'

R=222.00' N51°45'32"E  
L=50.90' 37.60'

SPRING HOLLOW CT

ARCHITECT

13662

KAREN LYNN PITSLEY  
STATE OF MARYLAND

exp. 10/22/17



7612 Browns Bridge Rd  
Highland, MD 20777  
301-776-2666  
301-776-2886 fax  
1-877-828-7267  
info@TransformingArchitecture.com  
www.TransformingArchitecture.com

**The Baker Residence**

17105 Spring Hollow Ct. Mt. Airy, MD 21771

SCALE: AS NOTED DATE: 02-05-16 PROJECT No: 11-069

# PERMIT

## SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~XXXXXX~~ 410-313-2640

4/26/00 Needs pur. p  
perf. test

P 513373

A 57610-B

DISTRICT

DATE 4-6-2000

DATE SYSTEM APPROVED

INSPECTOR M. R. Ikin

04-362721

INDEXED

WTC III Plumbing & Heating

IS PERMITTED TO INSTALL X ALTER

ADDRESS 1820 Gillis Falls Road, Woodbine, MD 21797

PHONE 410-489-4457

SUBDIVISION Spring Hollow

LOT 2

ROAD 17105 Spring Hollow Court

PROPERTY OWNER

Vance ~~Mason~~ ANNE LINN

ADDRESS

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

210 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 280

### Pumped Septic System Proposed

INSTALL: 1-1250 Gallon Pump Chamber

NOTES: - Septic pump detail to be provided by installer prior to issuance of septic permit.  
- Pump performance test is necessary prior to Health Department approval of pumped septic system.

TRENCHES - Trench to be 3 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 5.0 feet below original grade. Effective area begins at 3.0 feet below original grade. 2.0 feet of stone below distribution pipe.

LOCATION - Begin trenches 225 feet off the front lot line and 10 feet off the left lot line as seen when facing the lot from Spring Hollow Court. Run trenches on contour as shown on approved septic plan.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. 12/24/99 O.K. (28)

PLANS APPROVED BY Amy McMillen

DATE 11-24-1999

COVER NO WORK UNTIL INSPECTED AND APPROVED

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS. 90° ELBOWS NOT ACCEPTABLE.

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX TRENCHES) TO BE 100 FEET FROM WELL (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCH(ES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES)

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

PERMIT VOID AFTER TWO YEARS

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

\*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

HD-260(6-90)

\*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEM.

MS. PERMIT SHOWN  
AND RETURNED 6/14/01

B00130849 - deck

OLD PERMIT SHOWN

AND RETURNED 6/27/01  
B00131174 - inground pool

A 57610B

$$\frac{w+2}{w+1+2(d)} = \frac{3+2}{3+1+2(2)}$$

$$\frac{5}{8} = 0.625$$

$$280' \times 3' = \boxed{840}$$

$$840 \div 0.625 =$$

$$\boxed{1360} \times .8 =$$

$$\boxed{1088}$$

\* Lots created aft  
march 72' 10,000 sq.ft.

\* Lots created before  
march 72' 1 initial  
+ 2 replacements