

**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: 9/2/2016      **ONSITE SEWAGE DISPOSAL SYSTEM**      P 558850  
 APPROVAL DATE: 2/22/17 SEC      **PERMIT: HOLDING TANK**      A 557952  
 PROPERTY ADDRESS: 6130 Lawyers Hill Road      ~~558850~~

SUBDIVISION: \_\_\_\_\_ LOT: \_\_\_\_\_ TAX ID: 1181076

CONTRACTOR: Karen Roth (owner) Aspect Contracting EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: 6130 Lawyers Hill Road PHONE: 410-718-5454

PROPERTY OWNER: Karen Roth EMAIL: Karen@iconsultinggroupinc.com

OWNER ADDRESS: Same as above PHONE: 410-707-3232

HOLDING TANK SIZE (GALLONS): Min size 3150g

NUMBER OF BEDROOMS: 3

DISTRIBUTION SYSTEM: GRAVITY FED  LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>n/a</u>	INLET DEPTH: <u>n/a</u>
	TRENCH WIDTH: <u>n/a</u>	MAXIMUM BOTTOM DEPTH: <u>n/a</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>n/a</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>n/a</u>
LOCATION:	LOCATION OF TANKS TO BE DETERMINED IN FIELD.	
NOTES:	Minimum holding tank capacity needed is 3150 gallons to meet 7 day storage. Recommended tank capacity should be 2 X 2000gallons tanks in series. Holding tanks must be watertight tested in field. Manhole access required on both tanks. High water alarm to be installed for one day design flow storage (450g). Call for all inspections.	

ISSUED BY: K. Wolf      ISSUE DATE: 1/5/2017      EXPIRATION DATE: 1/5/2018

- 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 DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL HOLDING TANKS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM  
 ELECTRICAL PERMIT ISSUED      E 16006441
- 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.**

\* too much pressure + NOT TO SCALE

will pop seal at seam. They recommend filling tanks just to lid so that seam is tested but no extra pressure from water on lid. Second tank filled to 3/4" from top, first tank 5.5".

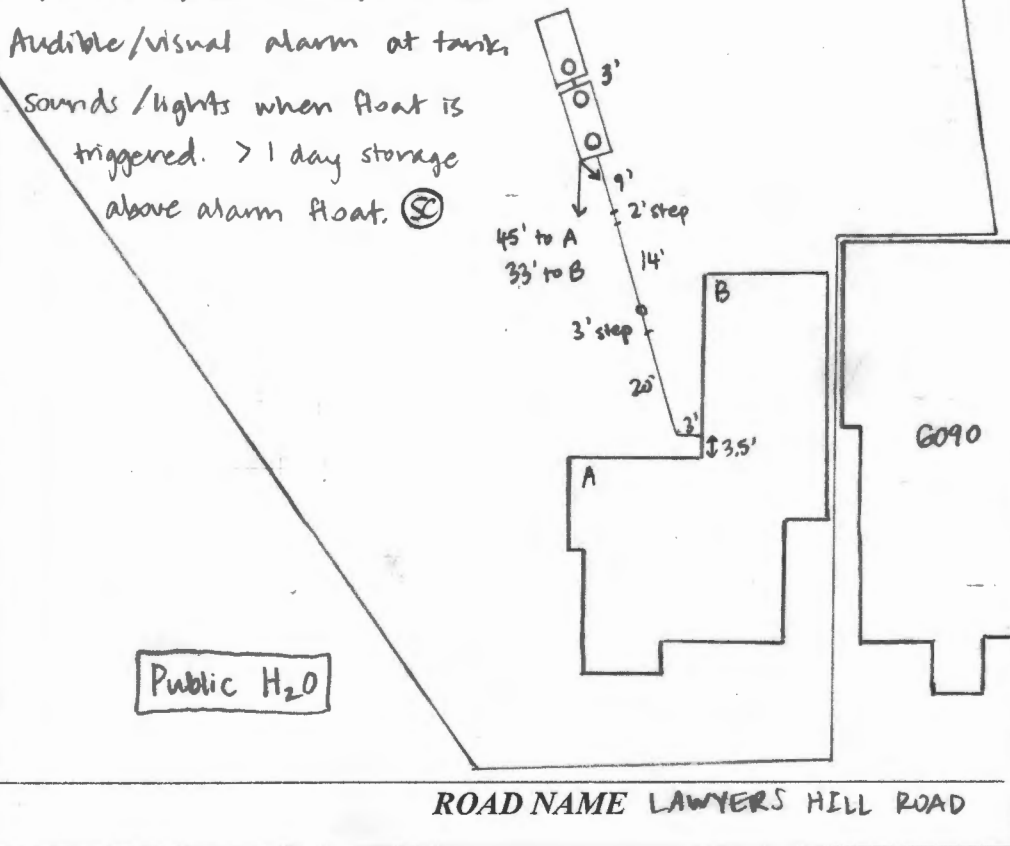
No change in water level after 30 mins.

Need test of alarm float. (SC)

2/22/17 On site for alarm test.

Audible/visual alarm at tank.

Sounds /lights when float is triggered. > 1 day storage above alarm float. (SC)



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
_____	_____	_____
NUMBER OF TRENCHES _____		
TOTAL LENGTH _____		
ABSORPTION AREA _____		
DISTRIBUTION BOX LEVEL _____		
DISTRIBUTION BOX BAFFLE _____		
DISTRIBUTION BOX PORT _____		

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	MAYER BROS.
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	6" - 1'
BAFFLES	NO
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	YES
SLOTTED	NO
DATE ON LID	—
PUMP/SEPTIC TANK LEVEL	YES
MANUFACTURER	MAYER BROS.
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	6" - 1'
BAFFLES	NO
BAFFLE FILTER	NO
MANHOLE LOC	FRONT
6" PORT LOC	NONE
WATERTIGHT TEST	YES
SLOTTED	NO
DATE ON LID	—

PRE-CONSTRUCTION:

1/5/17 Met contractors on site to layout locations for holding tanks. They will install away from proposed LP tank location. 2x 2000-gal tanks from Mayer Bros. to be installed. Water tight test req'd, fill into lid of lower tank, slightly lower in first tank. Tanks to be connected in series. (SC)

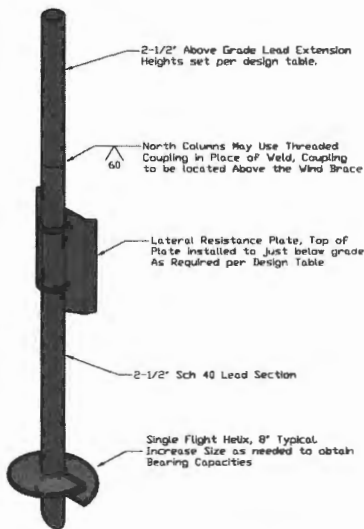
INSTALLATION:

1/20/17 Tanks set. 2nd tank has no outlet, solid concrete. Contractors will connect to house + fill with water over the weekend. (SC) 1/24/17 On site for 1-hr watertight test. Tanks full as of 24 hrs ago. Water level within 7/8" of lid of tank #2, 6" of lid of tank #1. Had contractors run water to fill water into lid of tank #2 + found leaks at seam near inlet end. Will fix with tar tape + do test tomorrow. Need house connection. (SC) 1/25/17 Tank corner tanned but still leaking at seam. Mayer Bros. to remove lid + replace tar tape this afternoon. Tank #1 also leaking at seam. (SC) 1/26/17 Mayer Bros. replaced tar tape on both lids. Mayer Bros. stated that filling tanks into lids creates \*

FINAL INSPECTOR Sarah Collins

DATE OF APPROVAL 2/22/17

ICC ES Report.



**Helical Pile Detail** NOT TO SCALE

**Specification Requirements:**

The following material specification requirements pertain to the fabrication of the Solar Foundations USA ground mount solar support structure as indicated on these drawings.

1. Solar Foundation aluminum rolls shall conform to ASTM B221.
2. Structural steel tubing shall be ASTM A500 Grade C.
3. Steel pipe for piles shall conform to ASTM A500 Grade C.
4. Steel pile extensions shall be ASTM A53 Grade B.
5. Fabricated steel plate for column cap assemblies, bracing clamps, etc. shall be ASTM A36 or A1011.
6. Steel bolts for cap fasteners shall conform to SAE J429 Grade 5. All other bolts shall conform to SAE J429 Grade 2 or better.
7. Steel U-bolts shall conform to ASTM 1018.
8. USS Flat steel washers shall conform to ASTM F844 and nuts for steel connections shall conform to ASTM A563 Grade A.
9. All field welding shall conform to AWS D11/D11M - Structural Welding Code requirements.
10. All steel shall be hot-dip galvanized per ASTM A123 or A153 after all fabrication has been completed.

**Installation Requirements:**

1. The minimum average installation torque required to obtain the required indicated capacities and the minimum installation depth shown on the plans shall be satisfied prior to termination of the installation. The installation torque shall be an average of the installation torques indicated during the last 1 foot of installation.
2. The torsional strength rating of the torque anchor shall not be exceeded during the installation. If the torsional strength limit of the anchor has been reached, but the anchor has not reached the target depth, perform the following:
  - 2.1. If the torsional strength limit is achieved prior to reaching the target depth, the installation may be acceptable if reviewed and approved by the engineer and/or owner.
  - 2.2. The installer may remove the torque anchor and install a new one with smaller diameter helical plate.
  - 2.3. If using a continuous flight pile, pre-drill the pile location with a 3-1/2" rock auger or rock drill as needed.
3. If the target depth is achieved, but the torsional requirement has not been met the installer may do one of the following:
  - 3.1. Install the torque anchor deeper to obtain the required capacity.
  - 3.2. Remove the torque anchor and install a new one with a larger diameter helical plate or one with multiple helical plates.
  - 3.3. Reduce the load capacity on the individual torque anchor by providing additional torque anchors at a reduced spacing.

**Sheet 1 of 1**

Date	Revision	Drawn By:	Review By:
01/16/2017	Original		MZ

**Project:**  
**Roth Residence**  
 6130 Lawyers Hill Road  
 Elkridge, MD 21075

**Solar Foundations USA**

6103 Winterhaven Drive Newark, DE 19702 Ph: (855) 738-7200 Fax: (866) 644-5695



# HOWARD COUNTY HEALTH DEPARTMENT

58850

DATE  
9 / 2 / 14

195

Received by

Karen Roth

PHONE #

For Perc Repair - 10130 Lawyers Hill Road

CASH  
 CHECK

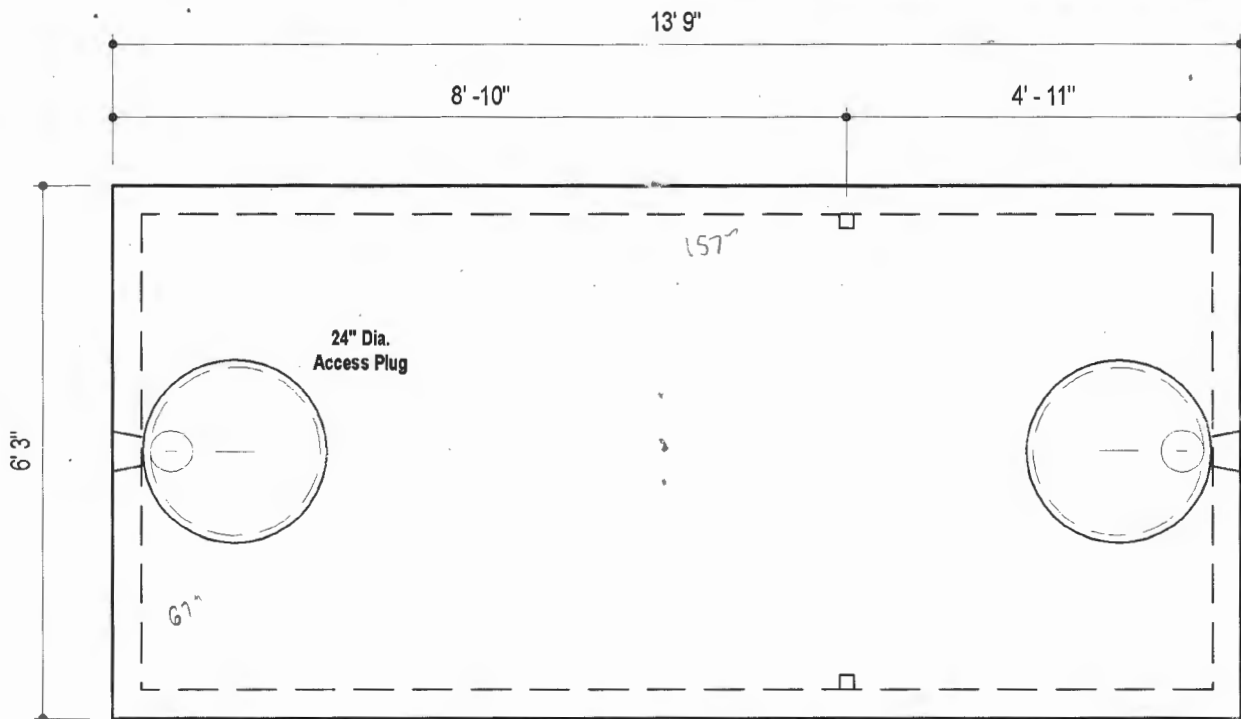
332

One hundred sixty-five <sup>00</sup>/<sub>100</sub>

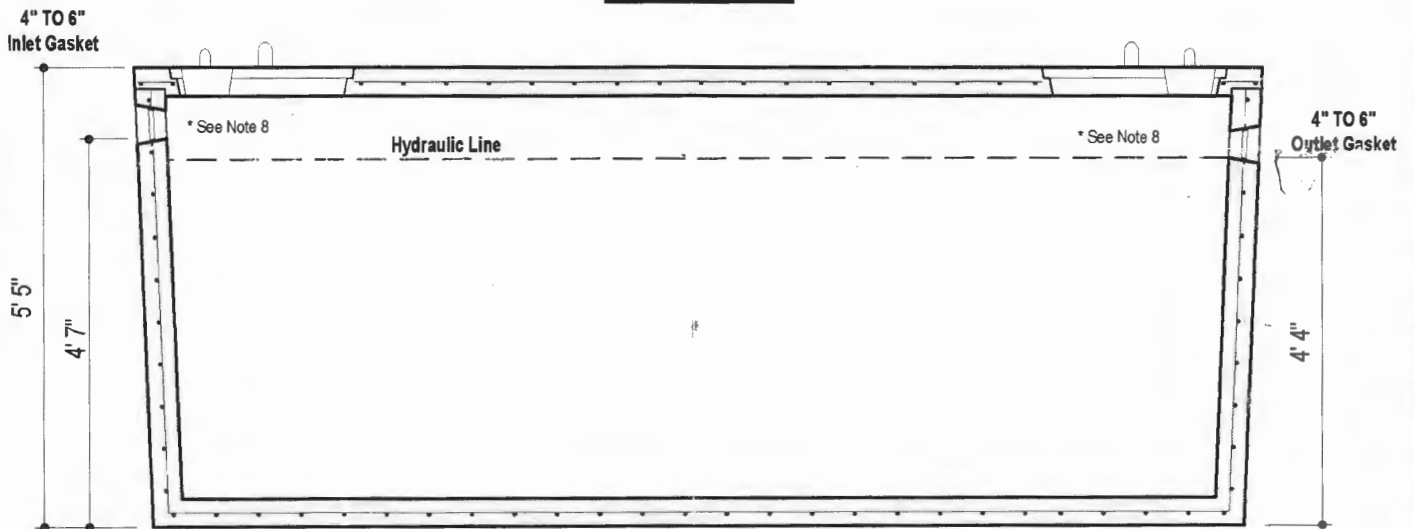
Dollars

165 100

Received By Marian Curry



**PLAN VIEW**



**SECTION A-A**

**DESIGN DATA & GENERAL NOTES**

- [1] Concrete strength  $f_c=4,000$  p.s.i. @ 28 days. Density = 160 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.
- [5] Top slab sealed with butyl rope mastic.
- [6] 4" wall, 4" base, & 6" top thickness.
- [7] Max 3' of cover
- [8] Depending on use of tank, Inlet & Outlet baffle may be required by code.

**WEIGHT = 19,000 lbs.**

**MBI**  
 Mayer Bros., Inc.  
 6264 Race Road  
 Elkridge, Maryland 21075  
 Tel. 410.796.1434  
 Fax. 410.796.1438  
 www.mayerbrosprecast.com

**2,000 GALLON SEPTIC TANK**  
**1-Compartment**  
 Stock Item [Approx. 19,000 lbs]

Dwg. No. 2000-1C	No Scale	Aug. 11, 2008
------------------	----------	---------------

71E

W.0E

PE

4530 BNA

6130 Lawyers Hill

Clerk of the Circuit Court for  
Howard County  
Land Records/Licensing

Elkridge, MD

Seasey Building  
250 Bendix Road  
Tumbia, MD 21045  
410-313-5850

LR - Agreement Recording Fee  
1x 20.00 20.00

Grantor/Grantee Name: roth  
Reference/Control #: 108

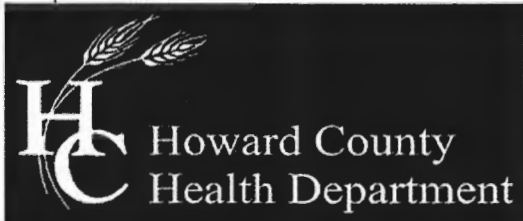
LR - Agreement Surcharge  
1x 40.00 40.00

SubTotal: 60.00  
Total: 60.00

REV-Check-BOA 60.00  
Number : 331

09/02 14:36 CC13-LS  
#6851, 24, 109

Thank you for visiting us today~



Bureau of Environmental Health

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

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

CONSENT AGREEMENT FOR USE OF HOLDING TANKS TO CORRECT FAILING SEWAGE SYSTEM

THIS AGREEMENT made this 24th day of September, 2016, by and between Lisa Mogel and Daniel Roth HEREINAFTER REFERRED TO AS Owner, and the Howard County Bureau of Environmental Health, HEREINAFTER REFERRED TO AS the Bureau.

WHEREAS, Owner is seized and possessed of a tract of land at 6130 Lawyers Hill Rd, Elkridge, MD, known as Tax Map 32, Parcel 36456, Block, the deed to same being recorded among the land records of Howard County, Maryland in Liber 16860, Folio 258.

WHEREAS, the Howard County Bureau of Environmental Health has advised the Owner of the need to correct the on-site sewage disposal problems and all parties concerned recognize the only alternative available is a holding tank system to serve the 2336 square foot residential dwelling containing 3 bedrooms.

WHEREAS, Owner's land meets requirements of COMAR 26.04.02 for installation of a holding tank. NOW THEREFORE, the parties hereto agree as follows:

- A. The Owner will install a holding tank(s) consistent with the design approved and permitted by the Bureau and follow the relevant provisions of COMAR 26.04.02 in regards to holding tank operation.
B. Owner agrees to insure reasonable access to the property and system by the Bureau as well as to provide any information requested by the Bureau to assure proper operation and maintenance of the holding tank(s).
C. Owner agrees that there shall be no liability on the part of the County or Bureau to Owner if the holding tank(s) is not properly maintained.
D. Owner acknowledges and agrees that neither the Bureau nor any of its agents or employees, either officially or individually underwrites the operation of the holding tank(s) and it is understood that the holding tank(s) is a last resort method to correct existing sewage disposal problems on the property.

LR - Agreement
Recording Fee 20.00
Grantor/Grantee Name:
Roth
Reference/Control #:
106
LR - Agreement
Surcharge 40.00
SubTotal: 60.00
Total: 60.00
09/02/2016 02:37 CC13-15
#8851799 C09503 -
Howard Co
Columbia/CO95.03.06 -
Register 08

20
40
25

8851799

- E. The Owner will devote such care and effort to the maintenance of the holding tank(s) so that it shall not malfunction and cause pollution at the ground surface, the waters of the state, or create a nuisance.
- F. The Owner agrees that he shall not alter or tamper with the holding tank(s) in any way that would cause it to malfunction or change it from its extended purpose of sewage storage with the sewage disposal being accomplished by a scavenger.
- G. The Owner agrees that, should the holding tank(s) be determined to pose a threat to the public health, safety or comfort, the Bureau may order any necessary changes or corrections for which the Owner agrees to pay. System modification may include requirements for additional tanks and/or more frequent pumping of the holding tank(s).
- H. The Owner understands that if violations occur from failure to maintain the holding tank(s) properly, the Bureau may take legal action to insure compliance.
- I. The Owner shall contact the Howard County Bureau of Environmental Health at least 24 hours prior to system completion so that the Bureau may inspect the system in the field with the installer. The Owner further agrees that this system will be installed according to the plans and specifications approved by the Bureau and any changes determined to be necessary by the Bureau as a result of reviewing the field conditions.
- J. This agreement shall run with the land and binds the Owner, his heirs, successors or assigns to the provisions of the agreement as long as the property is in existence. Owner further agrees that he/she shall inform any purchaser or lessee of the property of the holding tank(s) and all conditions in association with it.
- K. Owner agrees to record this agreement in the land records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be made aware of the special conditions affecting this property. This agreement shall not be construed to limit any authority of the Bureau to protect the public health, safety or comfort or to issue any other orders or take any other action which is now or may hereinafter be within its authority.
- L. Owner certifies that he has obtained a cost estimate and is financially capable of having the sewage removed from the holding tank(s) by a permitted sewage waste hauler on a regular basis so that the holding tank(s) never overflows. The Owner further agrees to enter into and maintain a written service contract which will be renewed annually with any permitted scavenger and will forward a copy to the Bureau prior to the approval of the permit for the holding tank(s) installation and annually thereafter.
- M. If the Owner installs any new plumbing, he/she shall install only water conserving fixtures (e.g. toilets installed will use no more than 1.6 gallons of water per flush).

- N. The Owner shall not perform any renovations or remodeling which results in any change of use which could lead to a potential increase in wastewater discharge.
- O. The approval of a holding tank system provided for in this agreement is only for an interim period until public sewerage facilities become available, at which time the Owner shall connect all buildings to the public facilities and shall properly abandon and back fill the holding tank(s).
- P. The Owner shall provide notice of continuous pumping of the tank(s) by a licensed scavenger as evidenced by submitting copies of pumping receipts to the Bureau on a quarterly basis.

WITNESS, the hand and seal of the parties hereto.

Daniel Roth 9/2/16   
Owner Date

Daniel Roth

Michael J. Cowie 9/2/16   
/Howard County Health Department

Lia Mogel 9/2/16   
Owner Date

Lisa Mogel



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Twitter: HowardCoHealthDep

Dr. Maury J. Rossmann, M.D., Health Officer

### INFORMATION FORM - SEPTIC SYSTEM REPAIR/UPGRADE

Reason for Request:

- Failing System
- System relocation for proposed addition
- System upgrade for proposed addition
- Inadequate treatment zone
- Collapsed septic tank
- Collapsed drywell

Has the septic tank been pumped within the last month?

- Yes
- No

Date pumped: \_\_\_\_\_

Was a visual inspection of the septic tank and/or drain fields conducted?

- Yes
- No

Explain observations: \_\_\_\_\_

Downward sloping field with cess pool in lowest elevation

Was a visual inspection of the sewer line conducted?

- Yes
- No

at 10' min

Existing system design

- Drywell
- Trench
- Mound
- Unknown

Blockage leading to the tank

- Yes
- No

Blockage leading to the field

- Yes
- No

Is discharge surfacing on the ground?

- Yes
- No

Additional Comments: \_\_\_\_\_

\*For REPAIRS, are the owners proposing, or do they plan to add in the future, any additions or modifications to the property, i.e. pools, living space additions, garages, etc? This information must be disclosed at the time of this application. The Health Department will not be able to accommodate requests in the field for property modifications unrelated to the repair request. Such requests may require an additional fee, testing, and submission of a Percolation Certification Plan, if the property does not meet current Code and Regulation.

Septic Contractor: Holtman Septic Contractor's Phone: 3014904289 x101

Contractor's Address: \_\_\_\_\_

Property Address: 16130 Lowyers Hill Rd County file: \_\_\_\_\_

Subdivision: \_\_\_\_\_ Lot: \_\_\_\_\_ Year Built: circa 1890

Owner's Name: \_\_\_\_\_ Owner's Phone: \_\_\_\_\_

Name of previous owner: \_\_\_\_\_ Existing bedrooms: 3

Proposed bedrooms: 3

Has this request been previously discussed with a Sanitarian? (Name): \_\_\_\_\_  
Public Sewer available/nearest: \_\_\_\_\_

\*A Sanitarian will be in contact within three business days, depending upon the urgency of the situation, to coordinate the scheduling/preview of the repair or upgrade.

\*Prior to scheduling inspections, sealed plans should be submitted to clarify the nature of the addition.\*

Print out a copy of Real Property Data via Dept. of Taxation website \_\_\_\_\_ Indexed file found \_\_\_\_\_

If public sewer may be nearby, verify whether sewer is technically "available" through the Bureau of Engineering. \_\_\_\_\_

If sewer is available and the property is within the Metropolitan District, connection to sewer is required. If the owner believes reason for exemption exists, the owner should justify the request in writing. \_\_\_\_\_

If soil/site conditions are limited and sewer and/or Metro District status is not conducive to connection, the Sanitarian may recommend pursuit of Emergency Sewer Excavation or Emergency Metro District Inclusion. The Owner should contact the Bureau of Utilities for details. \_\_\_\_\_

No permit is to be issued nor inspection to be scheduled without prior fee collection at the office unless an emergency situation exists. The contractor is to notify office of the emergency situation as soon as possible.



GLOBE SANITATION

2882 FLORENCE RD.  
 WOODBINE, MD 21797  
 (410)255-4650  
 (410)442-8295 Fax

**PROPOSAL**

DATE	PROPOSAL N...
4/21/2017	130

NAME / ADDRESS
Roth, Lisa 6130 Lawyers Hill Rd. Elkridge, MD 21075

DESCRIPTION	QTY	COST	PROJECT
			TOTAL
Globe Sanitation proposes to pump out (2) 2000 gallon holding tanks at 6130 Lawyers Hill Rd. Elkridge, MD every 6 weeks starting on May 31, 2017. If additional pumping is needed within that time additional charges will be made according to how many gallons extra is pumped.		400.00	400.00
Sales Tax		6.00%	0.00
We look forward to working with you!		<b>TOTAL</b>	\$400.00

SIGNATURE

*[Handwritten Signature]* 4/21/17  
 Daniel S. Roth