



Howard County
Health Department

Bureau of Environmental Health
7178 Gateway Drive Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

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

RECEIPT DATE: 3/6/2014 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 546264

INSTALLATION
APPROVAL DATE: 4/9/2014

PERMIT UPGRADE

A _____

PROPERTY ADDRESS: 950 River Road

SUBDIVISION: _____ LOT: _____ TAX ID: 03-286789

CONTRACTOR: _____ EMAIL: _____

CONTRACTOR ADDRESS: _____ PHONE: _____

PROPERTY OWNER: Brian and Deborah Bowers EMAIL: _____

OWNER ADDRESS: 950 River Road PHONE: _____

BAT UNIT MODEL: ECOPOD N SERIES E60-N BAT UNIT SIZE: _____

PUMP CHAMBER CAPACITY (GALLONS): _____ PUMP SIZE: _____

NUMBER OF BEDROOMS: 4 HOUSE SQ. FT. _____ APPLICATION RATE: 600GPD

DISTRIBUTION SYSTEM: GRAVITY FED ☒ LOW PRESSURE DOSED ☐

TRENCHES:	LINEAR FEET REQUIRED: _____	~ _____
	TRENCH WIDTH: _____	MAXIMUM BOTTOM DEPTH: _____
	MINIMUM SPACE _____	
	BETWEEN TRENCHES: _____	EFFECTIVE AREA BEGINNING DEPTH: _____
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Set BAT unit per plan. Set distribution box replace weathered or damaged SHC. Check distribution box and outlets if exposed.	

ISSUED BY: Robert Bricker ISSUE DATE: _____ EXPIRATION DATE: _____

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

**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.

NOT TO SCALE

See As-Built Drawing
On Separate Sheet

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH INLET BOTTOM

Existing

NUMBER OF TRENCHES

TOTAL LENGTH

ABSORPTION AREA

DISTRIBUTION BOX LEVEL Levelers

DISTRIBUTION BOX BAFFLE Yes

DISTRIBUTION BOX PORT Yes

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL Yes EGO-N

MANUFACTURER Babylon

CAPACITY 1000/2000 GAL

SEAM LOC Tap

TANK LID DEPTH 1'-1.5'

BAFFLES Middle

BAFFLE FILTER No

MANHOLE LOC Front+Rear

6" PORT LOC Middle

WATERTIGHT TEST No

SLOTTED Yes

DATE ON LID Dry

PUMP/SEPTIC TANK LEVEL N/A

MANUFACTURER

CAPACITY GAL

SEAM LOC

TANK LID DEPTH

BAFFLES

BAFFLE FILTER

MANHOLE LOC

6" PORT LOC

WATERTIGHT TEST

SLOTTED

DATE ON LID

PRE-CONSTRUCTION:

3/14/2014 O.K. to set new tank directly behind existing
Tank. (BB)

INSTALLATION:

3/19/2014 Tank set. Need to connect to dist. box and pump/
collapse old tank. (BB)

3/21/2014 Tank connected to new dist. box. Need start-up
certification from Babylon. (BB)

4/1/2014 Can't test system. Tank not full. Everything appears
to be working. (BB) 4/3/2014 Some measurements lost. Had to
revisit site. (BB) 4/9/2014 Received start-up certification

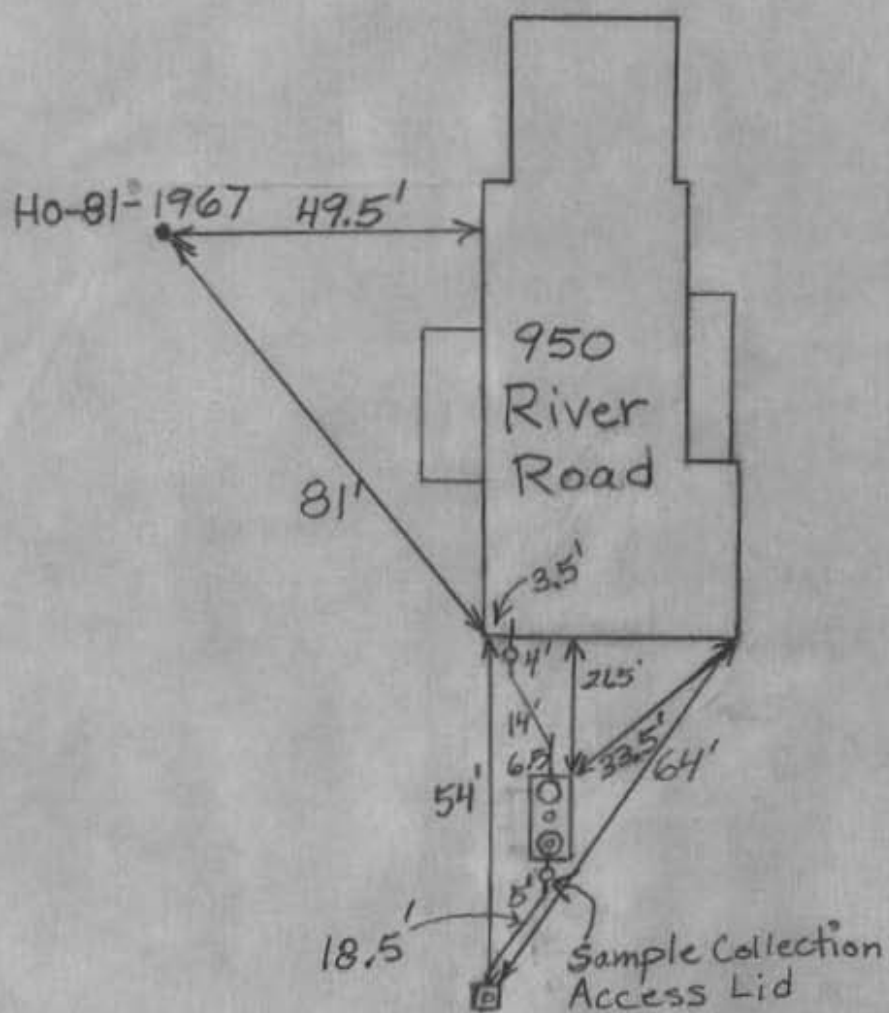
FINAL INSPECTOR

B. Baker

DATE OF APPROVAL

4/9/2014

from Babylon. Gave final without site visit. (BB)



e3 Environmental LLC

302-725-0706 www.e3onsite.com

ECOPOD-N Completion Statement

Installation Information

Owners Name	Brian Bowers	# of Bedrooms / GPD	4 bedroom
Street	950 River Road	Repair / Addition	<input checked="" type="checkbox"/>
City	Sykesville MD	New Construction	<input type="checkbox"/>
State	MARYLAND		
Zip	21784		

Installation Company

Company	Fogles	Installed Date	3/19/14
Certified Installer	James Deaver	Startup Date	4/1/14
Street	580 Obercht Rd		
City	Sykesville		
State	MD		
Zip	21784		

ECOPOD-N

Model #	Serial #
E50	
E60 <input checked="" type="checkbox"/>	E-60-2004 NA
E75	
E100	
E150	

Blower Voltage	Good
Blower Running Amps	Good
Inches of water over media with blower turned off	2 inches
Vent Installed	YES
Tanks and Risers Water tight	YES
Alarm Functional	YES

I hereby certify that the ECOPOD-N wastewater treatment system has been installed and started up in accordance with the construction permit and is in compliance with the manufacturers recommendations

Company Babylon Vault Co
 Signature Steven R Koontz
 Printed Name STEVEN R KOONTZ

Date 4/9/14

FAX

TO: Briam
FAX #: 410-313-2648
DATE: 4/9/14

FROM: STEVE
FAX #:

Memo:

START UP of B.A.T. System
950 River Rd Sykesville MD

MEMBER N. C. B. V. A.

MEMBER P. C. B. V. A.



Burial Vaults - Septic Tanks

Phone:
410-848-0393
Fax:
410-848-3551

925 WAKEFIELD VALLEY ROAD
NEW WINDSOR, MD 21776

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

The Thomas Dorsey Building
9250 Bendix Road
Columbia, MD 21045
410-327-5850

LR - Agreement	Recording Fee	
	1x	20.00 20.00

Grantor/Grantee Name: Bowers
Reference/Control #: 67

LR - Agreement Surcharge	
	1x 40.00 40.00
LR - Additional Recording Fee	linked
	1x 0.00 0.00

SubTotal:	60.00
Total:	60.00

REV-Check-BOA	60.00
Number : 2773	

11/20/2013 09:49 CC13-DS
#2221161 /396/109
Thank you for visiting us today~



Bureau of Environmental Health
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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

**OPERATION AND MAINTENANCE AGREEMENT
FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM
HAVING AN ADVANCED PRE-TREATMENT SYSTEM**

THIS AGREEMENT is made this 19th day of NOV 2013 among BRIAN + DEBORAH BOWERS, hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at 950 RIVER RD SYMESVILLE 21784, in the 3 Election District of Howard County, Maryland, and the deed to same is recorded or shall be recorded among the Land Records of Howard County, Maryland in Liber 6645 Folio 153.

WHEREAS, The Lot is suitable for the installation of a conventional on-site sewage disposal system with an advanced pre-treatment system, utilizing best available technology to perform nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07, effective January 1, 2013.

NOW, THEREFORE, the parties hereto agree as follows:

- A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County to develop accurate and thorough test results.
- B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.
- C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.
- D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.
- E. This agreement shall run with the land and upon Owner's taking title to the Lot shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as

long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Lot that the system shall require maintenance or other attention. Upon taking title to the Lot, the Owner agrees to cause this agreement to be recorded 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 aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

G. This agreement may be voided at any time at the discretion of the County.

H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

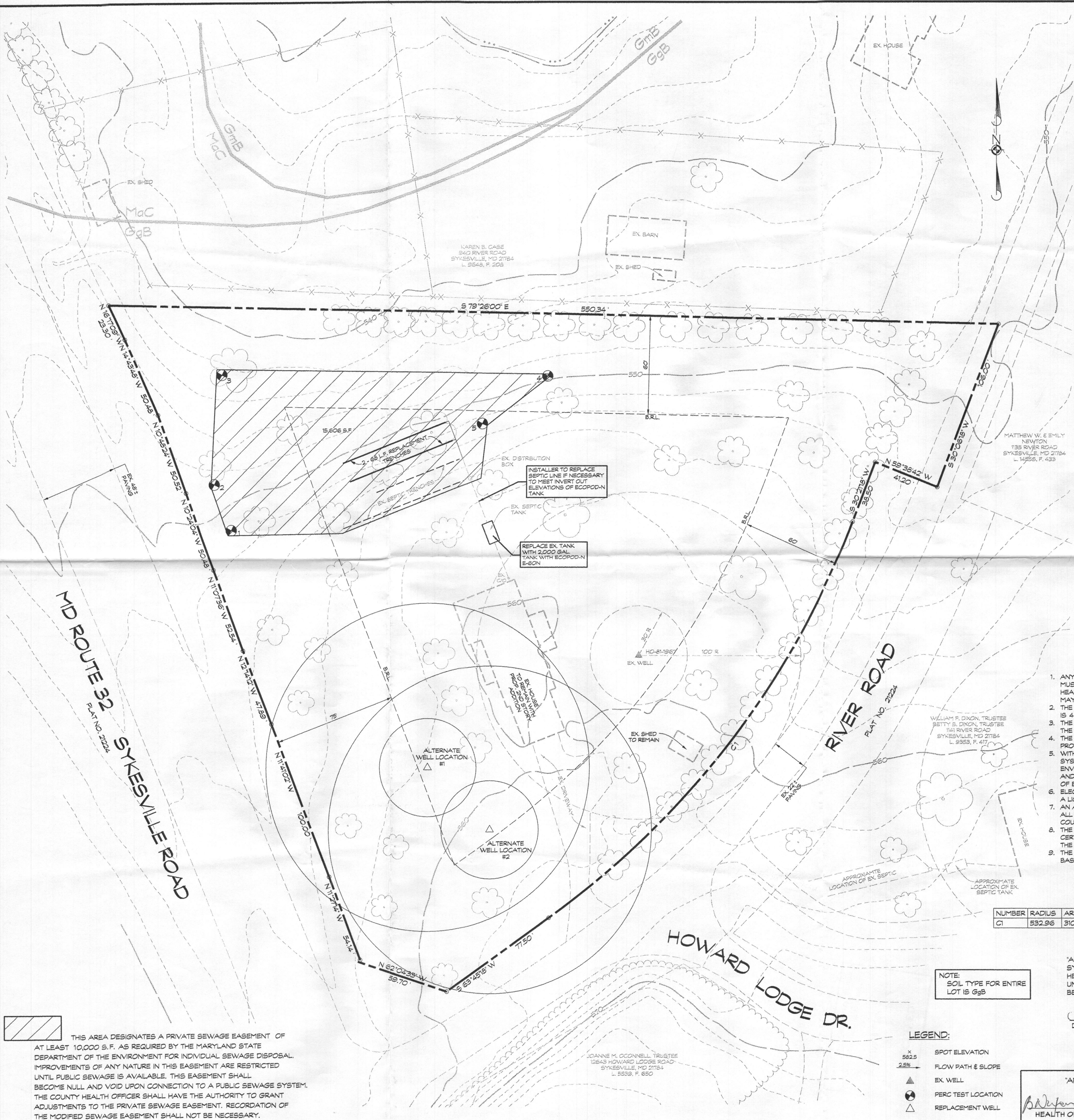
J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Brian Bowles 11/19/2013
Owner Date

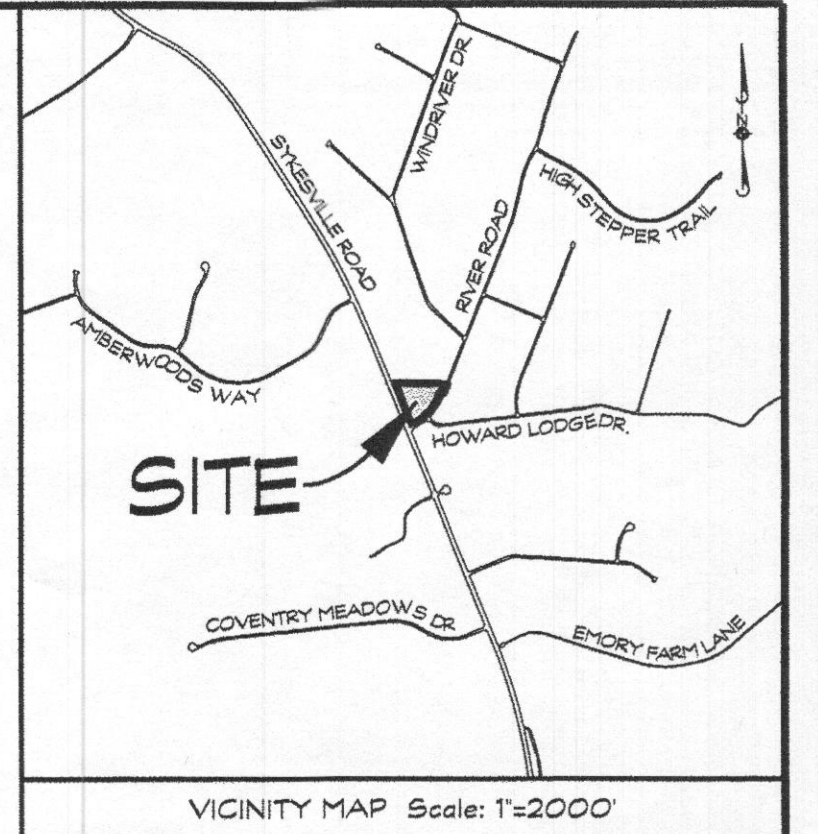
DL M Ba 11-19-2013
Owner Date

Bea Mufson 11/19/13
Howard County Health Department



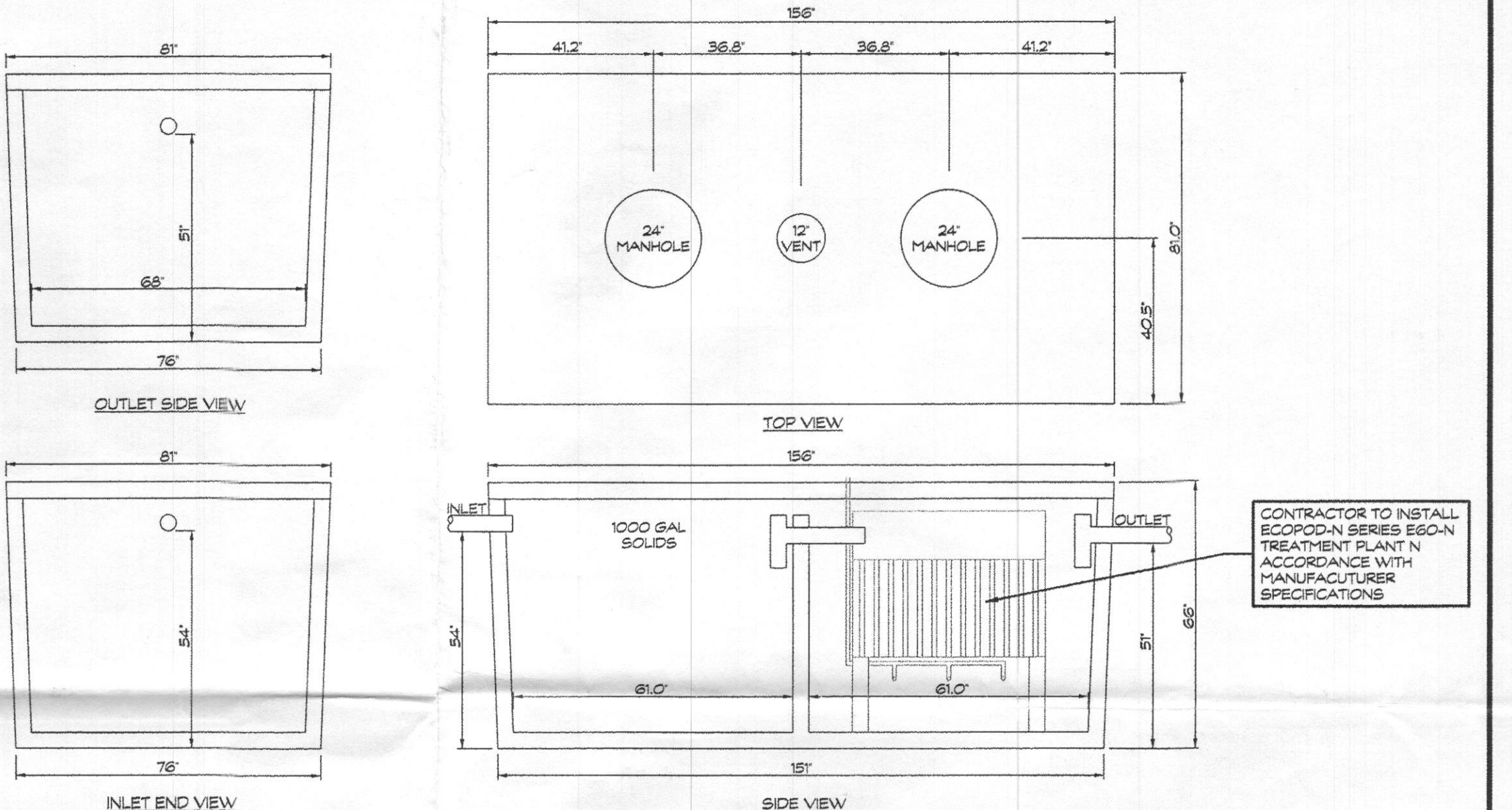
GENERAL NOTES

- 1. CURRENT TITLE REFERENCE: OWNER, BRIAN P. & DEBORAH M. BOWERS DEED REFERENCE: LIBER 14882, FOLIO 287 DATE: MAY 2, 2013 GRANTOR: AMBROSE I. LANE SR.
- 2. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE PROPERTY BOUNDARY AND 200' DOWN GRADIENT OF ANY WELLS AND/ OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
- 3. THE TOPOGRAPHY OF THIS PLAT IS TAKEN FROM HOWARD COUNTY AERIAL TOPOGRAPHY AND IS VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY.
- 4. B.R.L. - DENOTES 'BUILDING RESTRICTION LINE'.
- 5. THE BOUNDARY INFORMATION SHOWN IS FROM THE MEETES AND BOUNDS RECORDED IN LIBER 14882, FOLIO 287.
- 6. ANY CHANGES TO THE PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- 7. THE PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN IS TO ESTABLISH A SEWAGE DISPOSAL (SDA) IN SUPPORT OF AN ANTICIPATED BUILDING PERMIT APPLICATION TO CONSTRUCT A SECOND FLOOR ON THE EXISTING HOUSE.
- 8. THE LOCATION OF THE EXISTING TRENCHES WERE TAKEN FROM THE AS-BUILT SKETCH PROVIDED BY HOWARD COUNTY HEALTH DEPARTMENT AND ARE NOT BASED ON A FIELD SURVEY BY CLSI INC.
- 9. THERE ARE NO STREAMS, FLOODPLAIN OR WETLANDS ON THIS SITE.
- 10. THE LOCATION OF THE PERCOLATION TEST WERE TAKEN FROM THE LOCATION DRAWING PROVIDED BY THE HOWARD COUNTY HEALTH DEPARTMENT.
- 11. PER LETTER DATED NOVEMBER 12, 2013 FROM HOWARD COUNTY HEALTH DEPARTMENT NO ADDITIONAL PERCOLATION TESTS ARE REQUIRED AT THIS TIME.



DATA TABULATIONS:

- 1. ZONING DISTRICT: R-250
- 2. NUMBER OF BUILDING SITES: 1
- 3. TOTAL AREA OF SUBDIVISION: 3.08 ACRES



BAT TANK DETAIL

VAULT SPECIFICATIONS PROVIDED BY BABYLON VAULT COMPANY SCALE: 3/8" = 1'

NOTE: ECOPOD-N SERIES MANUFACTURED BY DELTA ENVIRONMENTAL PRODUCTS

BAT SITE PLAN NOTES

- 1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- 2. THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURERS SPECIFICATION IS 4 FEET.
- 3. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
- 4. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
- 5. WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
- 6. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- 7. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OR HOWARD COUNTY.
- 8. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
- 9. THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON MANUFACTURERS SPECIFICATIONS.

SEPTIC SYSTEM TRENCH DESIGN:

PROPOSED SECOND FLOOR ADDITION TO EXISTING HOUSE, TOTAL NUMBER OF BEDROOMS = 4 AVERAGE PERCOLATION TEST TIME = 7.5 MIN./INCH APPLICATION RATE = 0.8 GPD/SQ. FT. DESIGN FLOW: 150 GALS x 4 BEDROOM = 600 GAL/DAY 600 GAL/DAY / 0.8 GAL./DAY/SQ. FT. = 750 SQ. FT. EXISTING TRENCH AREA: (135 LF / 0.36) 2 FT. = 750 SQ. FT.

OWNER / DEVELOPER

BRIAN & DEBORAH BOWERS 250 RIVER ROAD SYKESVILLE, MD 21784

BAT SITE PLAN & PERCOLATION CERTIFICATION PLAN

250 RIVER ROAD TAX ACCOUNT #: 228789

BOWERS PROPERTY

3RD ELECTION DISTRICT * HOWARD COUNTY, MD. TAX MAP: 9 * BLOCK: 5 * PARCEL: 35



439 East Main Street Westminster, MD 21157-5539 (410) 848-1790 FAX (410) 848-1791

NUMBER	RADIUS	ARC	DELTA	TAN	CHORD BRG.	DIST
G1	532.96	310.68	33°23'59"	159.89	S 47°03'17" W	306.30

CURVES DESIGNATED THUS: CX

"AS TO THE LOCATION OF THE EXISTING WELLS AND SEPTIC SYSTEMS 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."

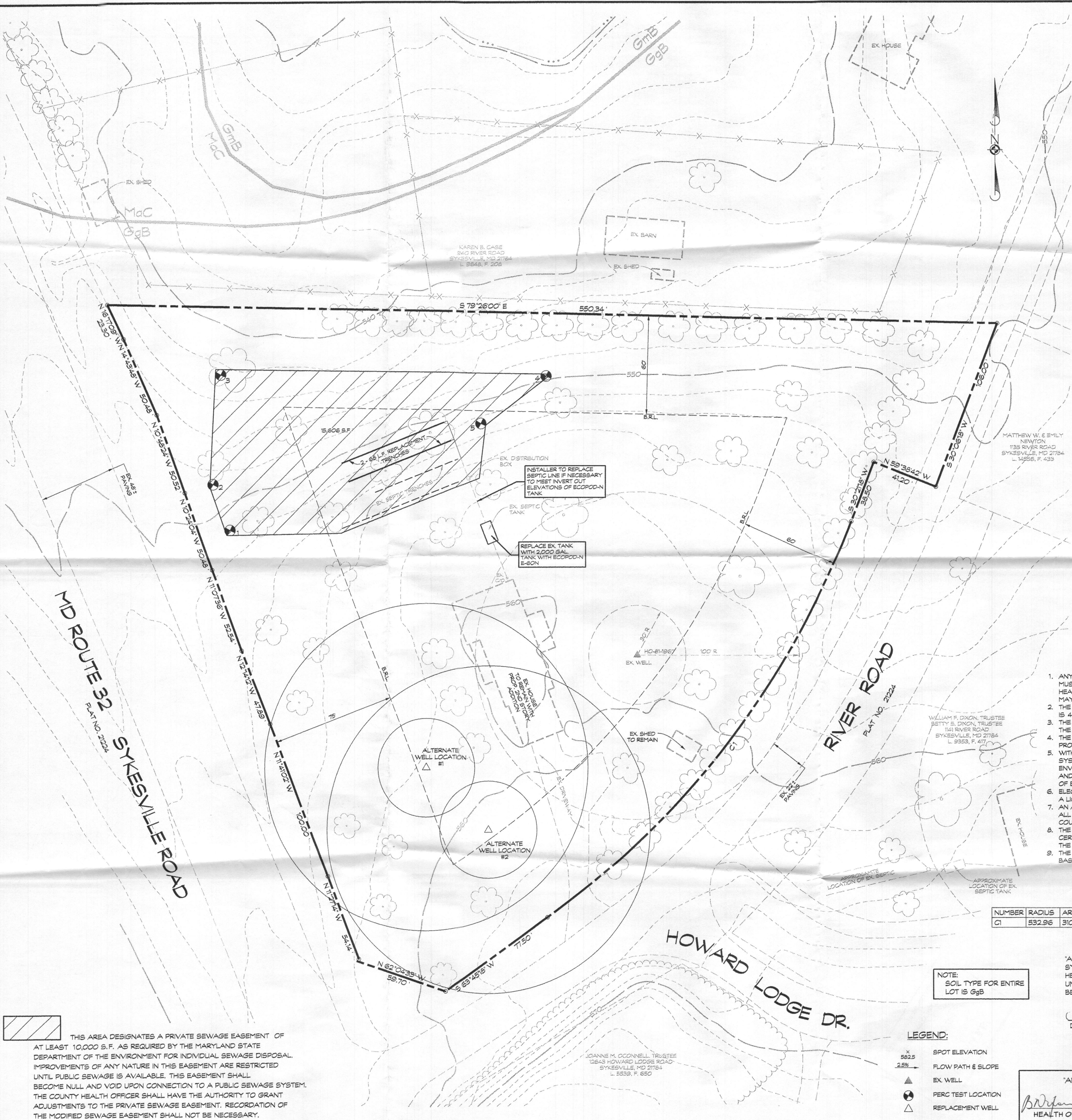
Dennis E. Mackley, Property Line Surveyor No. 10844

- LEGEND:
- 582.5 SPOT ELEVATION
 - 2.5% FLOW PATH & SLOPE
 - EX. WELL
 - PERC TEST LOCATION
 - REPLACEMENT WELL

"APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS"

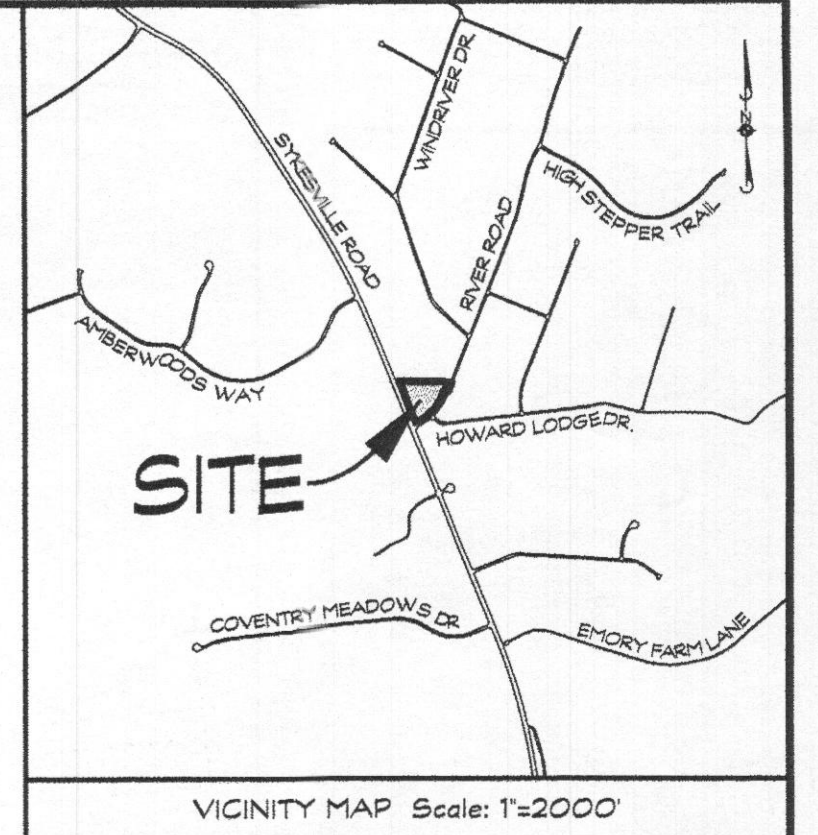
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE 12/7/2014

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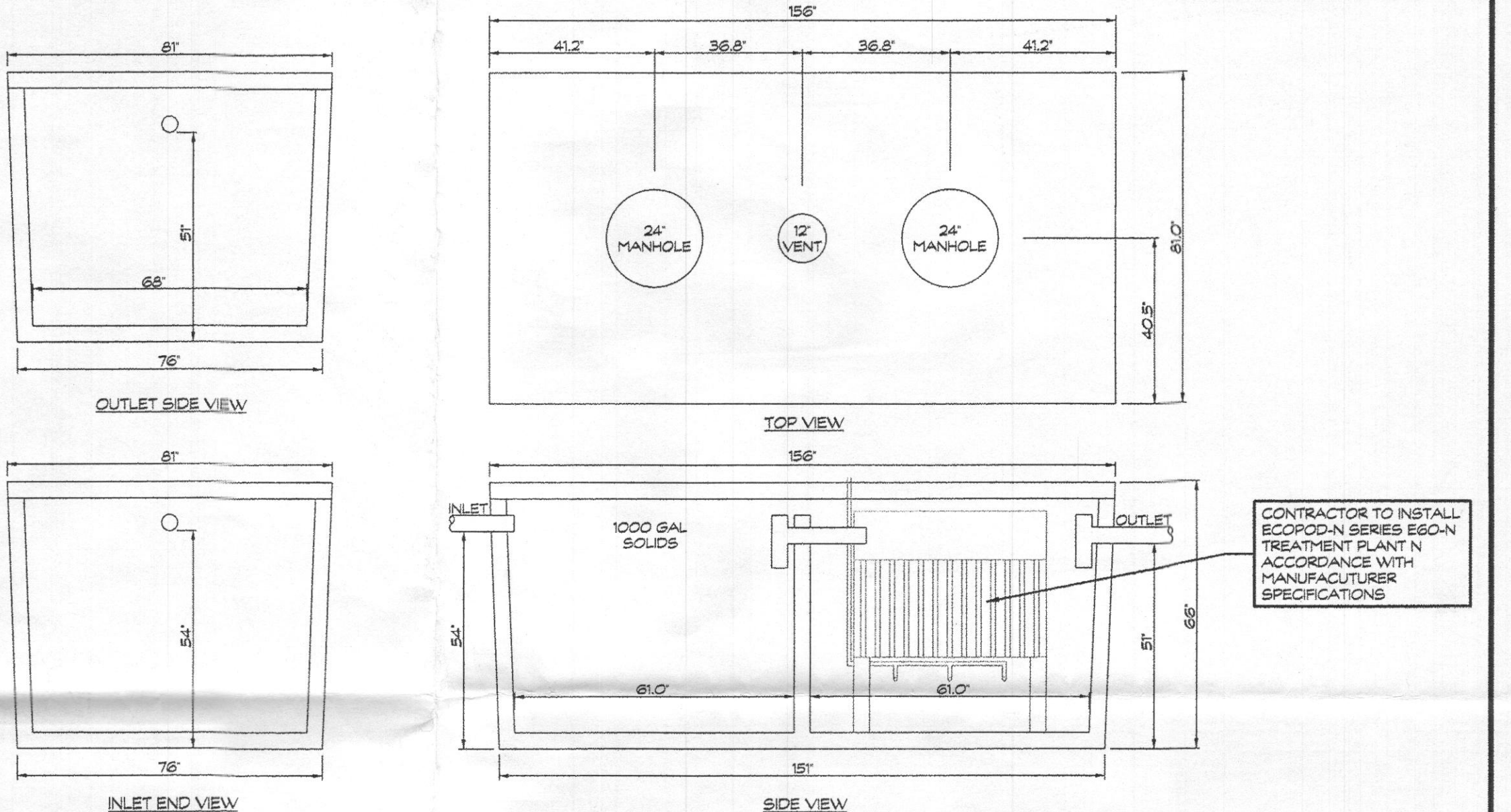
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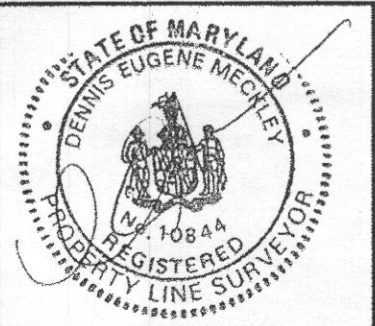
BRIAN & DEBORAH BOWERS
280 RIVER ROAD
SYKESVILLE, MD 21784

BAT SITE PLAN & PERCOLATION CERTIFICATION PLAN

280 RIVER ROAD
TAX ACCOUNT #: 228789

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Dennis E. Mackley, Property Line Surveyor, No. 10844

NOTE:
SOIL TYPE FOR ENTIRE LOT IS GgB

LEGEND:

- SPOT ELEVATION
- FLOW PATH & SLOPE
- EX. WELL
- PERC TEST LOCATION
- REPLACEMENT WELL

"APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS"

Brian P. Bowers
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT.
DATE: 1/27/2014

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