

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

RECEIPT DATE: 7-7-15 **ONSITE SEWAGE DISPOSAL SYSTEM** P 556523
 APPROVAL DATE: 10/22/2015 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 1215 Hoods Mill Road
 SUBDIVISION: _____ LOT: _____ TAX ID: _____
 CONTRACTOR: Hatfield's Equipment EMAIL: ken@hatfieldsequipment.com
 CONTRACTOR ADDRESS: P.O. Box 519, Annapolis Junction, MD 20701 PHONE: 301-480-4289

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: MDE MANUFACTURER:

PROPERTY OWNER: Williamsburg Group LLC EMAIL: marinamorris@williamsburgllc.com
 OWNER ADDRESS: 5485 Harpers Farm Road, Columbia, MD 21044 PHONE: 410-997-8800

NORWECO TNTLP-
 BAT UNIT MODEL: 500GPD PUMP SIZE: N/A PUMP TANK CAPACITY: _____

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: 7/8/15 DATE RECORDED: 7/8/15

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>195 172'</u>	INLET DEPTH: <u>4.5'</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7.5'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5</u>

LOCATION: **PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.**

NOTES: If T2 is too close to existing trench, move downhill towards replacement trench 5. Abandon existing tank and drywell. Pump and fill.
4x43'

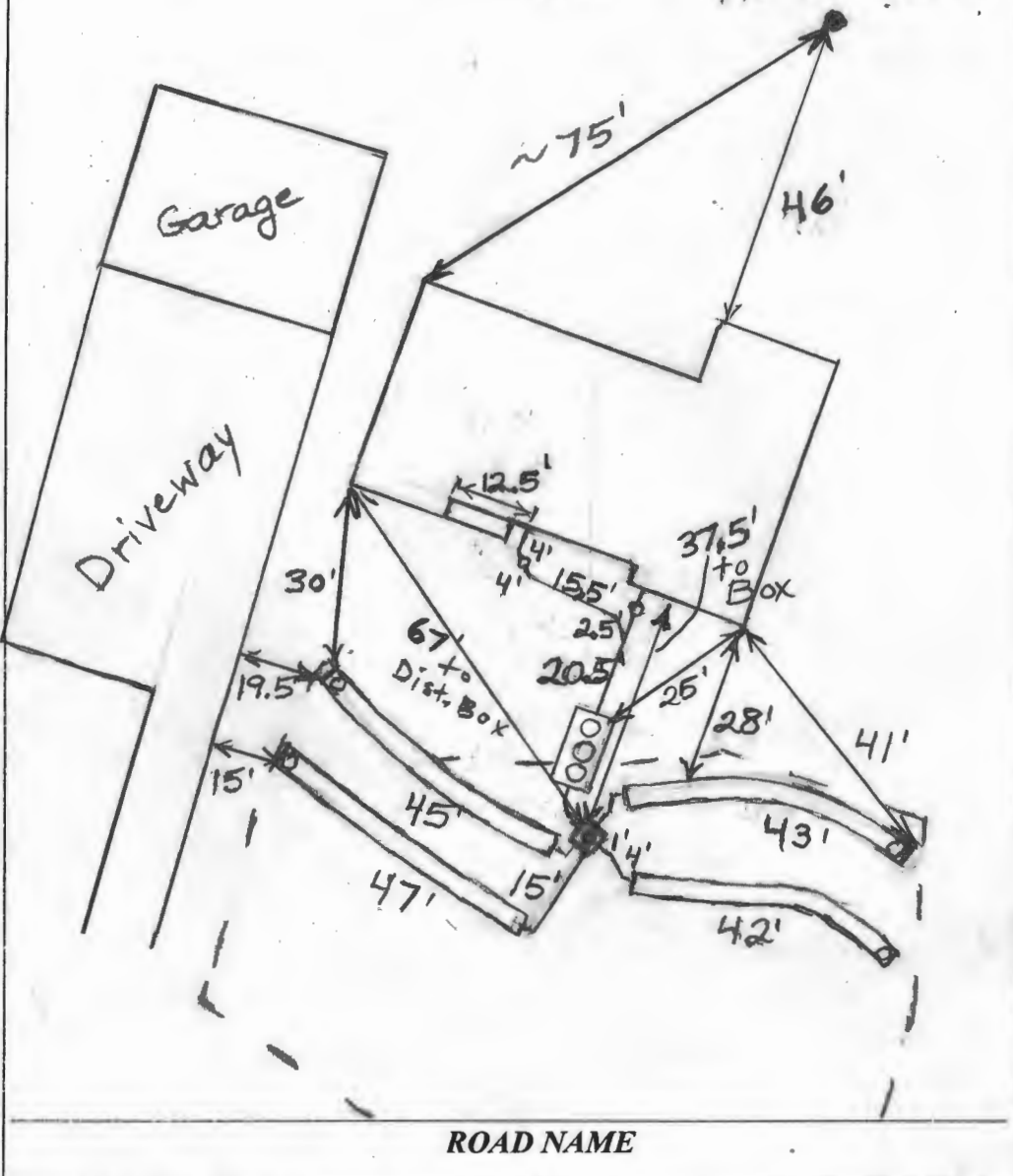
ISSUED BY: Jeff Williams ISSUE DATE: 9-29-15 EXPIRATION DATE: 9-29-16

- 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 DOWNGRAIENT 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 _____
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- 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.**

NOT TO SCALE

H0-73-0562



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4.5'	7.5'
NUMBER OF TRENCHES		4
TOTAL LENGTH		177'
ABSORPTION AREA		531 + Sidewall
DISTRIBUTION BOX LEVEL		Levelers
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA

SEPTIC TANK I LEVEL	Yes
MANUFACTURER	Norweco/Babylon
CAPACITY	1300 GAL
SEAM LOC	Top
TANK LID DEPTH	1.5-2.5'
BAFFLES	No
BAFFLE FILTER	No
MANHOLE LOC	Front, Middle, Rear
6" PORT LOC	None
WATERTIGHT TEST	No
SLOTTED	N/A
DATE ON LID	Dry

PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	N/A
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION:

10/14/2015 Layout done. There is lack of space for trenches due to large tree and drywell. Changed trench specs. to make trenches shorter to help with space issue. Install four 43' trenches on contour across the top of the easement. Place the dist. box at the top middle of the easement. Nothing was staked. (BB)

INSTALLATION:

10/20/2015 Tank set. House connections made. (BB)
 10/21/2015 System finished, O.K. to cover. (BB) 10/22/2015 Received approval letter for BAT from Norweco representative. (BB)

FINAL INSPECTOR B. Baker DATE OF APPROVAL 10/22/2015

Back River Pre-Cast, LLC

PO BOX 329
Glyndon, MD 21071
Phone # 410-833-3394
Fax # 410-833-4116

Letter of Certification

This is to certify that the Norweco Singlair TNT 600 GPD Septic Tank installed at 1215 Hoods Mill Rd.,Cooksville, MD 21723 on October 20, 2015 was installed according to the manufacture's specifications.

Installer: Jeff Reiter

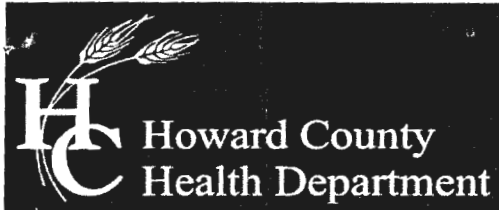
Property Owner: Jack Lanternman

Permit #



MATTHEW GECKLE

Vice-President



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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 8th day of JULY 2015, among JENNIFER & JACK LANTERMAN, 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 1215 HOODS MILL ROAD, COOKEVILLE, in the 4th 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 3561 Folio ~~6707~~ 0725

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. The pre-treatment device being installed is MURWIG TWT-50/60i-GPO

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 with prior notice 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.
- 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.

Bert Rifon 7/8/2015

Howard County Health Department

Jack E. Lanterman 8 JULY 2015
Owner #1 Signature Date

JACK LANTERMAN
Owner #1 Print Name

Jennifer I. Lanterman 8 JULY 2015
Owner #2 Signature Date

JENNIFER LANTERMAN
Owner #2 Print Name

X
Buyer #1 Signature Date

Buyer #1 Print Name

Buyer #2 Signature Date

Buyer #2 Print Name

1215 Woods Mill Rd.
Cooksville MD. 21723

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

The Thomas Dorsey Building
9250 Bendix Road
Columbia, MD 21045
410-313-5850

LR - Agreement Recording Fee
1x 20.00 20.00

Grantor/Grantee Name: LANTERMAN
Reference/Control #: 317

LR - Agreement Surcharge
1x 40.00 40.00

SubTotal: 60.00

Total: 60.00

REV-Check-BOA 60.00
Number : 2414

07/08/2015 15:10

CC13-NN

#4508935 /494/109

~ Thank you for visiting us today ~

Williams, Jeffrey

From: John Carney <jcarney@bei-civilengineering.com>
Sent: Thursday, July 09, 2015 9:16 AM
To: Williams, Jeffrey
Subject: RE: Septic System design

That would be great. Thanks, John

From: Williams, Jeffrey [mailto:jewilliams@howardcountymd.gov]
Sent: Thursday, July 09, 2015 8:55 AM
To: John Carney
Subject: RE: Septic System design

That's fine by me. I can redline the BAT plan to indicate 4' inlet and include this email chain in the file and I'll change the specs for the septic permit.

From: John Carney [mailto:jcarney@bei-civilengineering.com]
Sent: Wednesday, July 08, 2015 8:17 AM
To: Williams, Jeffrey
Subject: FW: Septic System design

Jeff, Ken Hatfield is asking if we can lower the lateral to 4.0' below grade. It will save them a good bit of stone. The effective area begins at 5' and goes to 7'. Could this allowance be added to the septic permit or do you need a revised plan? I'll be coming down this morning if you need a new plan just let me know. Thanks, John

From: Ken [mailto:Ken@Hatfieldsequipment.com]
Sent: Wednesday, July 08, 2015 6:50 AM
To: jcarney@bei-civilengineering.com
Subject: RE: Septic System design

John ,
I am just checking on the depth of the stone . By the time you cover your pipe you have 4.5 ft. of stone 3 ft. wide 195 ft . long . Only reason I ask because its double the stone from a normal system that we do .
Ken Hatfield
Hatfield's Equipment, Inc.
PO Box 519
Annapolis Junction, MD 20701
301 490 4289 x 101 Office
410 984 0101 Cell

From: Jack Lanterman [mailto:j3tlanterman@verizon.net]
Sent: Tuesday, July 07, 2015 5:14 PM
To: Ken
Subject: Septic System design

Ken,



HOWARD COUNTY HEALTH DEPARTMENT

56523

DATE 7 17 115

SP-5

Received From

Jack Kuntzman

PHONE #

410 489-1684

For

Septic Permit / 1215 Hood Mill Rd.

CASH

CHECK

NO.

2413

Three hundred ninety-six

Dollars

\$

396.00

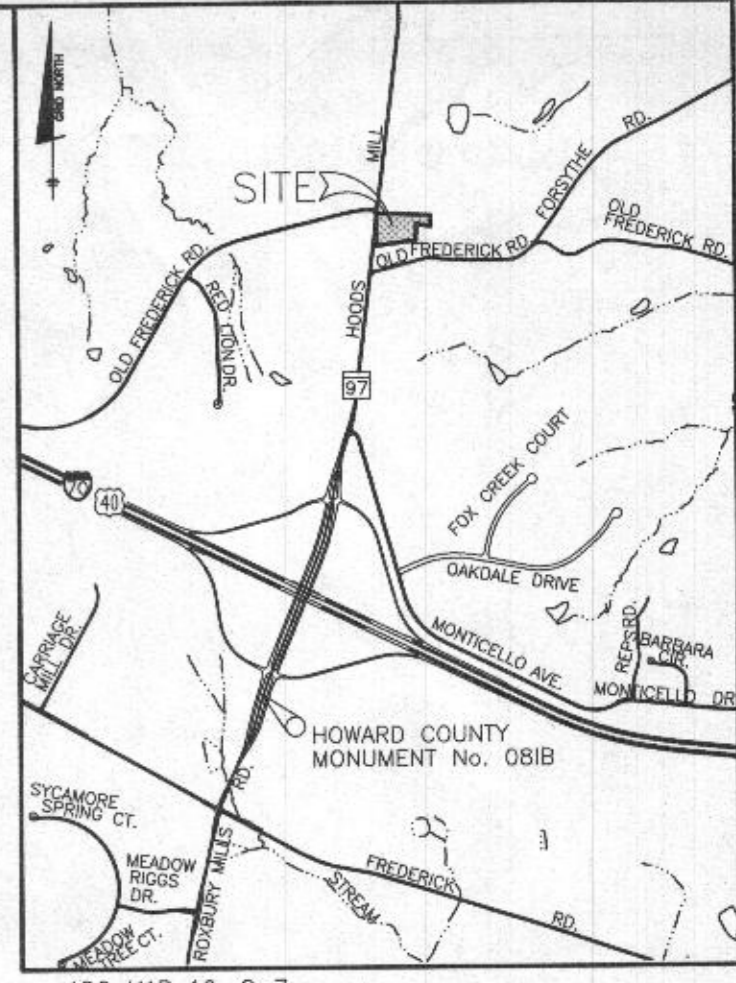
Received By

J. King

SOILS LEGEND		
MAP SYMBOL	SOIL GROUP	SOIL TYPE
GgB	C	Glenn loam, 3 to 8 percent slopes
GgC	B	Glenn loam, 8 to 15 percent slopes

* INDICATES HYDRIC SOILS
 TAKEN FROM WEB SOILS SURVEY MAP NO. 3, WOODBINE NE

LEGEND	
SOILS CLASSIFICATION	GgB
SOILS DELINEATION	-----
EXISTING CONTOURS (GIS)	---480--- ---478---
EXISTING WOODS LINE	~~~~~
SEPTIC FIELD	▨
EXISTING WELL	⊕
PASSING PERCOLATION TEST	○



GENERAL NOTES

- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT LARGE ENOUGH FOR THE INITIAL SYSTEM AND ONE REPLACEMENT SYSTEM AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT. THE LOT SIZE FOR THESE LOTS WILL FULFILL THE REQUIREMENTS OF THE ZONING REGULATIONS.
- ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS OF CONCERN WITHIN 100' OF THE PROPERTY'S BOUNDARIES EXCEPT THAT WHICH ARE SHOWN. INFORMATION HAS BEEN REQUESTED FROM THE BUREAU OF ENVIRONMENTAL HEALTH CONCERNING THE ADJOINING PROPERTIES.
- THE EXISTING TOPOGRAPHY SHOWN IS TAKEN FROM HOWARD COUNTY GIS WITH TWO-FOOT CONTOUR INTERVALS. TRACT OUTLINE IS ESTABLISHED BY DEED OF RECORD.
- AN ADVANCED PRE-TREATMENT SYSTEM, WHICH UTILIZES CURRENTLY ACCEPTABLE TECHNOLOGY TO PERFORM NITROGEN REDUCTION, MUST BE INSTALLED ON THE SEPTIC SYSTEMS FOR THIS SUBDIVISION. THESE ADVANCED PRE-TREATMENT SYSTEMS SHALL BE LIMITED TO THE SYSTEMS LISTED IN THE WEBSITE FOR BAY RESTORATION FUND (BRF) BEST AVAILABLE TECHNOLOGY FOR REMOVING NITROGEN FROM ONSITE SYSTEMS. A SUPPLEMENTAL SITE PLAN WITH ALL OF THE NECESSARY DETAILS FOR INSTALLATION OF THE SEPTIC SYSTEM WILL BE REQUIRED PRIOR TO THE RELEASE OF THE BUILDING PERMIT AND SYSTEM INSTALLATION PERMIT.
- PERCOLATION TEST FEE RECEIPT NUMBER, REFERENCED IN THE APPROVING AUTHORITY CORRESPONDENCE IS A18700 AND PERMIT 18988.
- THE PURPOSE OF THIS PERCOLATION CERTIFICATION IS TO ESTABLISH PRIVATE SEWERAGE EASEMENT AND TO ESTABLISH OR 1500 SQ. FT. OF WELL ZONE WITH ELLIPTICAL RADIUS OF 100 FEET AROUND THE ENTIRE SET/WELL ZONES FOR THIS PROPERTY.
- CONTRACTOR TO VERIFY LOCATION OF EXISTING TRENCH. THE INSTALLATION OF THE NEW TRENCHES SHALL MAINTAIN 10' SEPARATION FOR THE EDGE OF THE EXISTING TRENCH.



PLAN VIEW
 SCALE: 1" = 50'

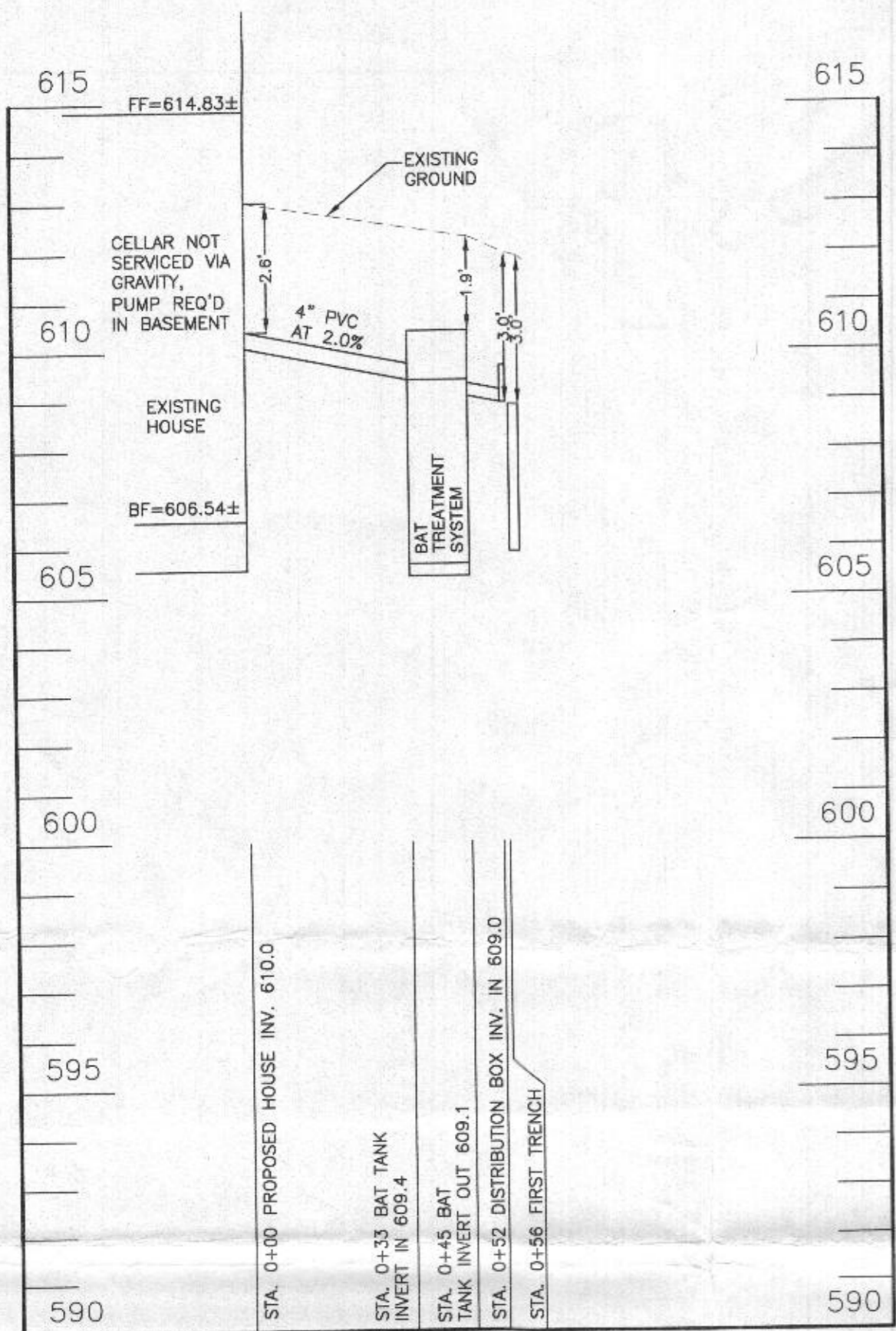
BENCHMARK
 ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 ▲ FAX: 410-465-6644
 BEI@BEI-CIVLENGINEERING.COM

Approved Septic System Plan
 Howard County Health Department

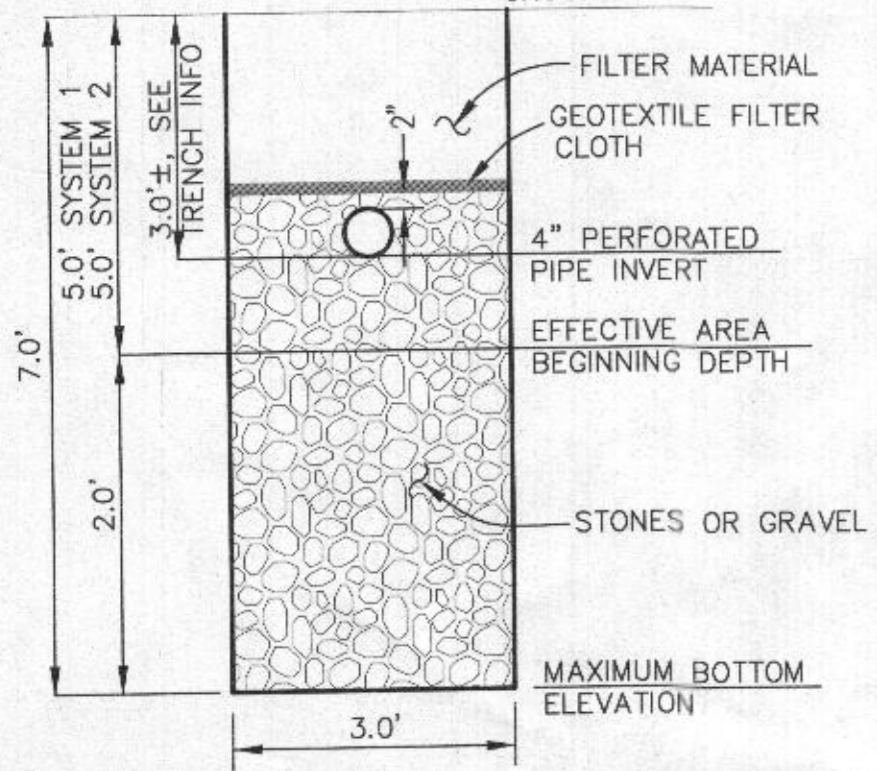
[Signature] 7/2/15
 Signature Date

OWNER/BUILDER:		1215 HOODS MILL ROAD	
LANTERMAN, JACK ELROY, JR LANTERMAN, JENNIFER L. T/E 1215 HOODS MILL RD COOKSVILLE MD 21723		1215 HOODS MILL RD COOKSVILLE, MD 21723 TAX MAP No. 8 - GRID 0011 - PARCEL 0289 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND TAX ID NUMBER 04-311213	
DATE: JUNE, 2015		PROJECT NO. 2705	
DESIGN: JMC		DRAWING 1 OF 2	
DRAFT: NAF		SCALE: 1" = 50'	



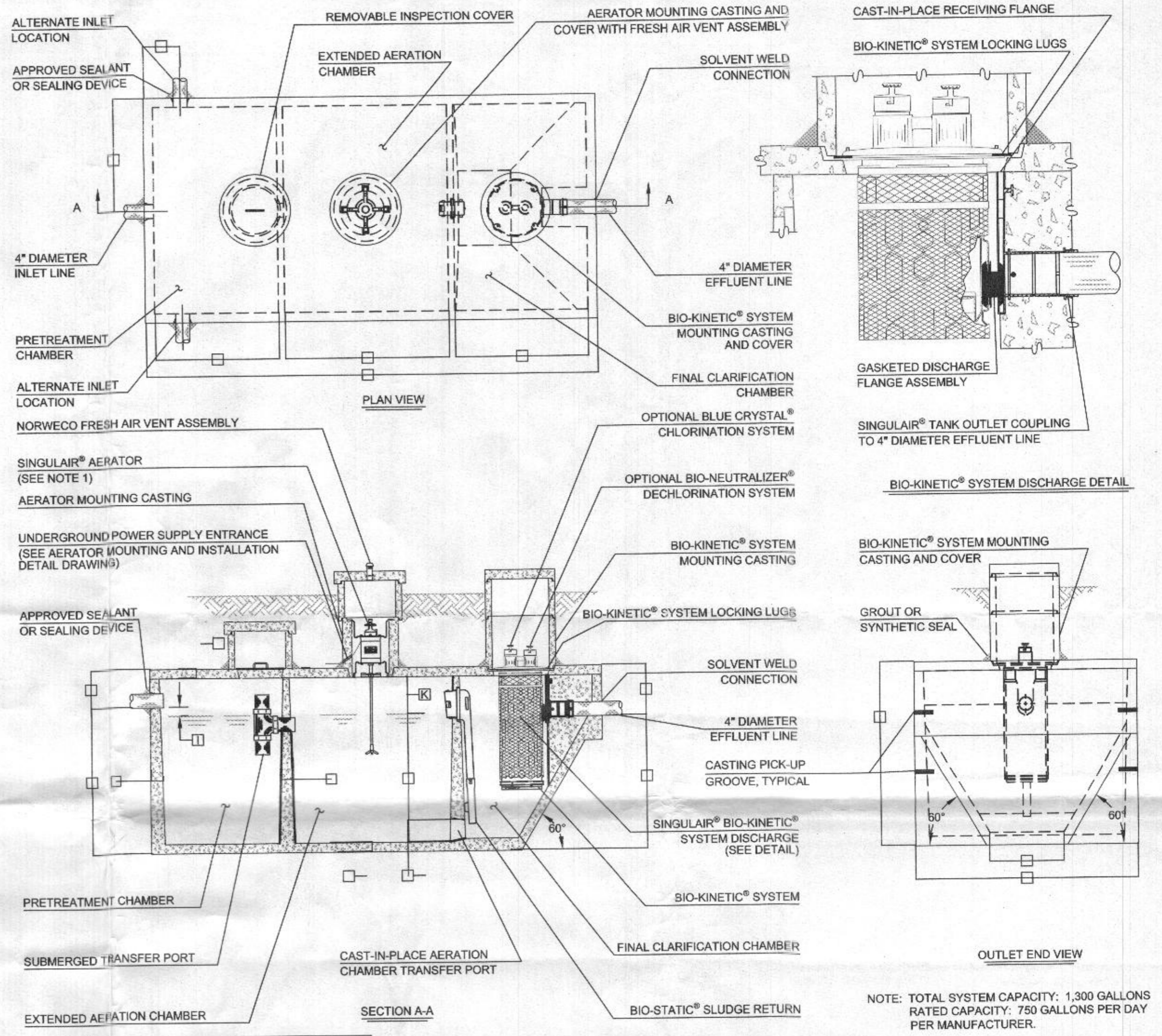
SEWER PROFILE - PARCEL 289
SCALE: VERTICAL 1"=3', HORIZONTAL 1"=30'

INITIAL SYSTEM		1st REPLACEMENT		INV. OUT OF HOUSE	
TRENCH 1	49 LF	TRENCH 5	49 LF	610.0	
GROUND ELEVATION	611.9	GROUND ELEVATION	608.2	609.4	
INVERT ELEVATION	608.9	INVERT ELEVATION	605.2	609.1	
MAX. BOTTOM ELEV.	604.9	MAX. BOTTOM ELEV.	601.2	610.4	
TRENCH 2	49 LF	TRENCH 6	49 LF	612.3	
GROUND ELEVATION	610.1	GROUND ELEVATION	607.0	609.0	
INVERT ELEVATION	607.1	INVERT ELEVATION	603.0	608.9	
MAX. BOTTOM ELEV.	603.1	MAX. BOTTOM ELEV.	600.0	612.1	
TRENCH 3	49 LF	TRENCH 7	49 LF		
GROUND ELEVATION	611.8	GROUND ELEVATION	610.2		
INVERT ELEVATION	608.8	INVERT ELEVATION	607.2		
MAX. BOTTOM ELEV.	604.8	MAX. BOTTOM ELEV.	603.2		
TRENCH 4	49 LF	TRENCH 8	49 LF		
GROUND ELEVATION	611.0	GROUND ELEVATION	609.0		
INVERT ELEVATION	608.0	INVERT ELEVATION	606.0		
MAX. BOTTOM ELEV.	604.0	MAX. BOTTOM ELEV.	602.0		



CRITICAL DIMENSIONS			
A	1'-0"	N	0'-3"
B	3'-0"	O	0'-6"
C	3'-4"	P	0'-3"
D	4'-5"	Q	1'-4"
E	3'-7"	R	3'-8"
F	12'-2"	S	5'-0"
G	1'-0"	T	2'-0"
H	4'-0"	U	6'-0"
I	0'-3"	V	
J	0'-3"	W	
K	1'-0"	X	
L	0'-2"	Y	
M	3'-6"	Z	

norweco
LOW-PROFILE SINGULAIR® BIO-KINETIC WASTEWATER TREATMENT SYSTEM MODEL NTLF-600 GPD
PC-5-7091



NOTES:
TOTAL SYSTEM CAPACITY: 1,300 GALLONS
RATED CAPACITY: 600 GALLONS PER DAY AND
ABLE TO SERVICE UP TO FIVE (5)
BEDROOMS PER MANUFACTURER.

SEE MANUFACTURER'S SPECIFICATIONS FOR
DETAILS. WWW.NORWECO.COM

- Required BAT Site Plan Notes
- 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 sit plan may be required.
 - The maximum depth of the BAT shall be per the manufacturer's specification, 3.0'.
 - The blower may not be located further from the tank than the manufacturer's specifications, 75'.
 - The BAT system shall be maintained and operated for the life of the system.
 - The BAT shall be operated by and maintained by a certified service provider.
 - 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.
 - Electrical work for the BAT installation must be performed by a licensed electrician.
 - An agreement and Easement must be completed and signed by all applicable parties, and recorded in Land Records of Howard County.
 - The Health Department requires documentation for the start-up certification from the manufacturer prior to final approval of the installation.

INITIAL SYSTEM		
Number of Bedrooms	5	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	5	ft
Bottom Max Depth	7	ft
Design Flow	750	gpd
Drainage Field square footage	938	sf
Sidewall reduction credit	0.63	
Trench width	3	ft
Effective Area Depth	2	ft
Linear Length of trench Required	195	lf

1st REPAIR SYSTEM		
Number of Bedrooms	5	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	5	ft
Bottom Max Depth	7	ft
Design Flow	750	gpd
Drainage Field square footage	938	sf
Sidewall reduction credit	0.63	
Trench width	3	ft
Effective Area Depth	2	ft
Linear Length of trench Required	195	lf

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PHONE: 410-465-6105 • FAX: 410-465-6644
BEI@BEI-CVLENGINEERING.COM

OWNER/BUILDER:
LANTERMAN, JACK ELROY, JR
LANTERMAN, JENNIFER L. T/E
1215 HOODS MILL RD
COOKSVILLE MD 21723

1215 HOODS MILL ROAD

1215 HOODS MILL RD
COOKSVILLE, MD 21723
TAX MAP No. 8 - GRID 0011 - PARCEL 0289
4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
TAX ID NUMBER 04-311213

BAT PLAN AND DETAILS
EXISTING SINGLE FAMILY DWELING WITH
PROPOSED ADDITION

DATE: JUNE, 2015	PROJECT NO. 2705
DESIGN: JMC	DRAFT: JMC
SCALE: AS SHOWN	DRAWING 2 OF 2

SIGNATURE AND SEAL ARE FOR
CULVERT PROFILE ONLY:
Professional Certification. I hereby certify that these documents
were prepared or approved by me, and that I am a duly licensed
professional engineer under the laws of the State of Maryland,
License No. 40972, Expiration Date: 06-08-2016.

J. M. C.
6/29/15