



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: 1/7/2015 **ONSITE SEWAGE DISPOSAL SYSTEM** P 555388-~~8~~

INSTALLATION APPROVAL DATE: 3/2/15 **PERMIT CONSTRUCTION** A _____
(KMW)

PROPERTY ADDRESS: 14513 Edgewoods Way
 SUBDIVISION: Edgewood Farm LOT: 3 TAX ID: _____
 CONTRACTOR: Fogle's Septic Clean Inc. EMAIL: kevin@foglesinc.com
 CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21104 PHONE: 410-795-5670
 PROPERTY OWNER: _____ EMAIL: _____
 OWNER ADDRESS: _____ PHONE: _____

BAT UNIT MODEL: ECOPOD (600 GPD) PUMP SIZE: _____ PUMP TANK CAPACITY: _____
 DISTRIBUTION SYSTEM: GRAVITY LOW PRESSURE DOSED NUMBER OF BEDROOMS: 4

TRENCHES:	LINEAR FEET REQUIRED: <u>SEE BAT PLAN 126'</u>	INLET DEPTH: <u>SEE BAT PLAN 4'</u>
	TRENCH WIDTH: <u>SEE BAT PLAN 3'</u>	MAXIMUM BOTTOM DEPTH: <u>SEE BAT PLAN 8'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>SEE BAT PLAN 12'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>SEE BAT PLAN</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:	See BAT unit per plan. Install cleanout in SHC 30' - 70' from foundation.	

ISSUED BY: _____ 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 DOWNGRADIENT 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
- 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

See separate sheet
for as-built

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	3.5'	7.5'
NUMBER OF TRENCHES		2
TOTAL LENGTH		126'
ABSORPTION AREA		378'
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK I LEVEL YES

MANUFACTURER ECOPOD E60

CAPACITY 2000 GAL

SEAM LOC TOP

TANK LID DEPTH 2'

BAFFLES

BAFFLE FILTER

MANHOLE LOC FRONT + REAR

6" PORT LOC MIDDLE

WATERTIGHT TEST NO

SLOTTED NO

DATE ON LID

PUMP/SEPTIC TANK LEVEL

MANUFACTURER

CAPACITY GAL

SEAM LOC

TANK LID DEPTH

BAFFLES

BAFFLE FILTER

MANHOLE LOC

6" PORT LOC

WATERTIGHT TEST

SLOTTED

DATE ON LID

PRE-CONSTRUCTION:

1/16/15 Tank location and trenches laid out according to BAT plan. (BB)

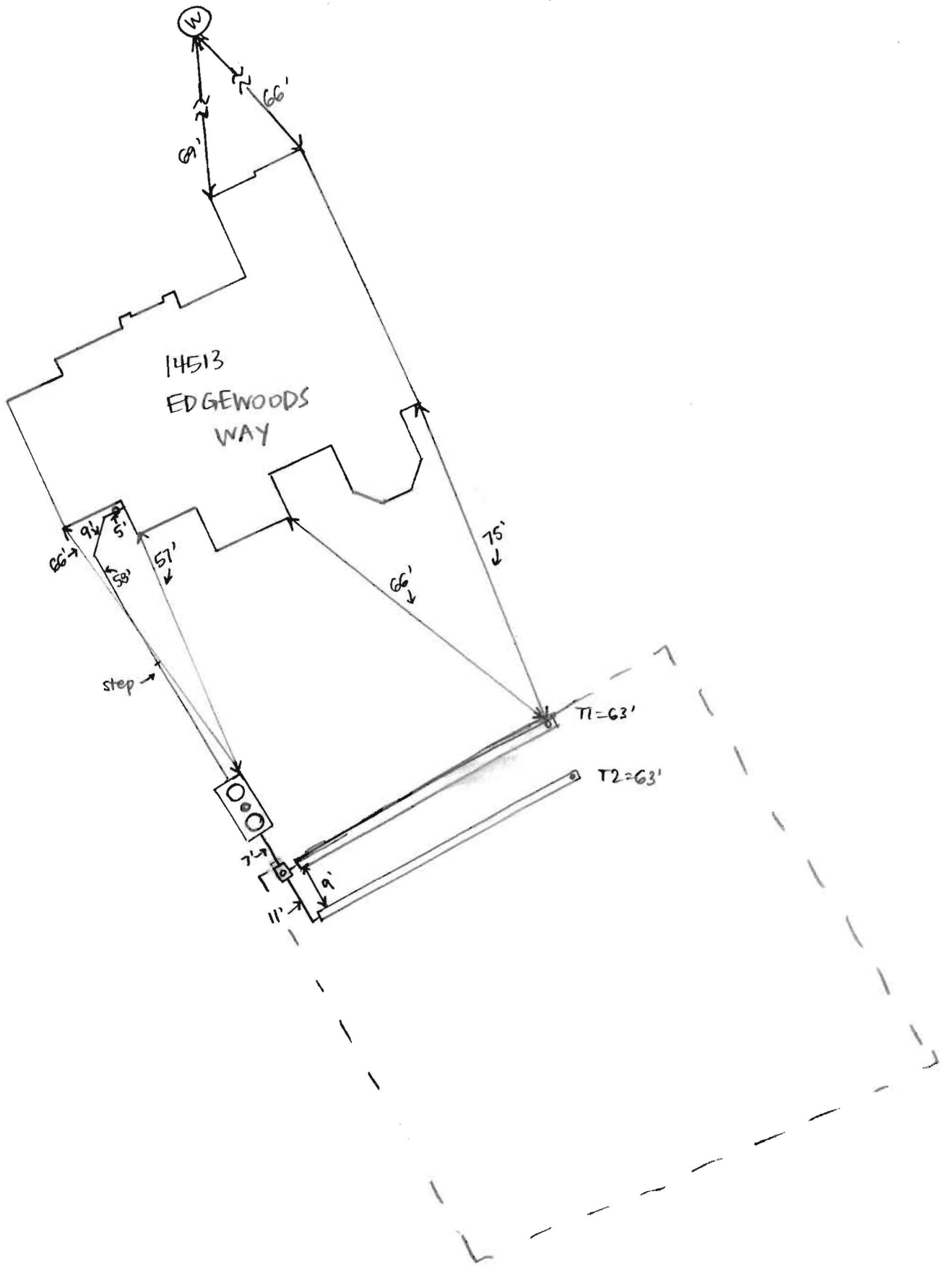
INSTALLATION: 1/21/15 Work finished on trenches + connections. House connection made, step in pipe (length not known b/c covered at end of step) Tank not left open to view baffles. Levelled speed levelers in D-box. Needs BAT startup certification. (SC)

FINAL INSPECTOR

[Signature]

DATE OF APPROVAL

3/2/15



NOT TO SCALE

ROAD NAME

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 _____

MANUFACTURER _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH _____

BAFFLES _____

BAFFLE FILTER _____

MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED _____

DATE ON LID _____

PUMP/SEPTIC TANK LEVEL _____

MANUFACTURER _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH _____

BAFFLES _____

BAFFLE FILTER _____

MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED _____

DATE ON LID _____

PRE-CONSTRUCTION:

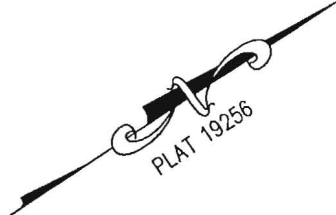
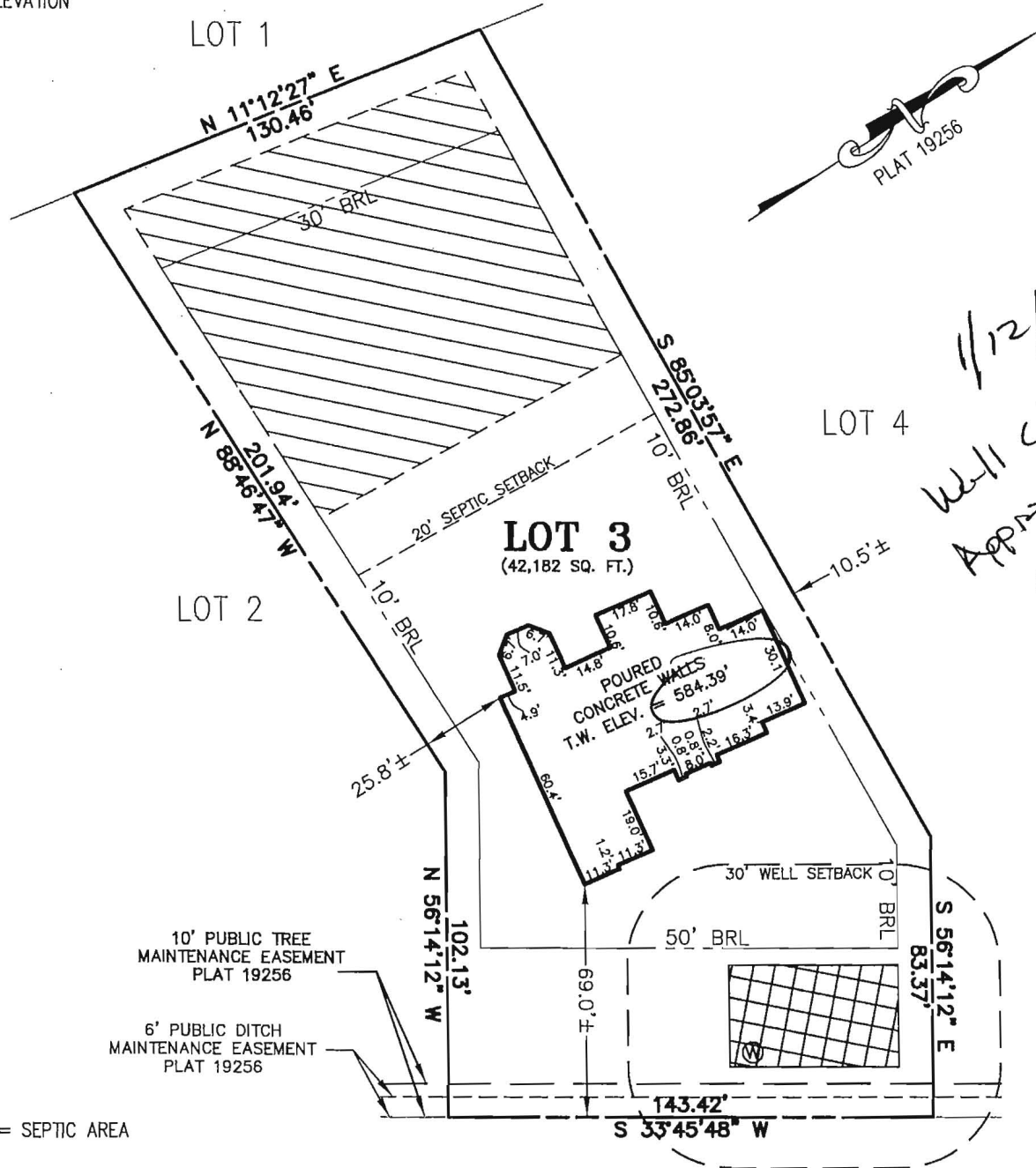
INSTALLATION:

FINAL INSPECTOR _____ DATE OF APPROVAL _____

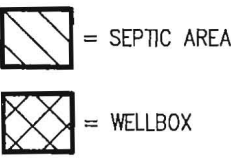
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/15.

LEGEND:

BRL BUILDING RESTRICTION LINE
 T.W. TOP OF WALL
 ELEV. ELEVATION



*11/12/15
 Well Check
 Approved
 -R.C.K.*



EDGEWOODS WAY

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPEMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.

ADDRESS: 14513 EDGEWOODS WAY
 GLENELG, MD 21737

SURVEYOR'S CERTIFICATE

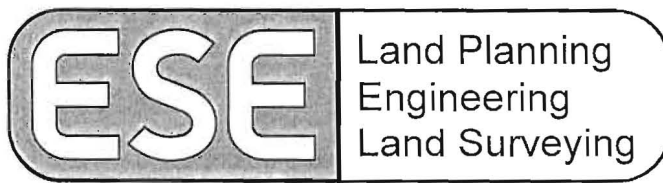
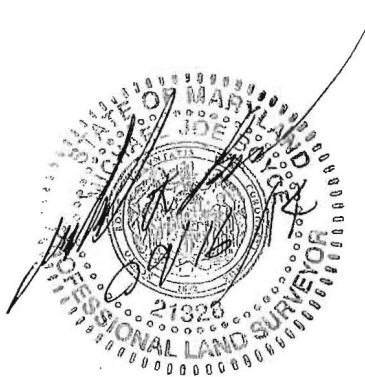
THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHT-OF-WAYS, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED. THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.

SIGNATURE: *Michael Joe Boyce* 21328 MD. LIC NO. DATE: 09/16/14

**WALLCHECK
 LOT 3**

EDGEWOOD FARM

LIBER 10677, FOLIO 461
 PLAT NO. 19256
 FOURTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND



ESE Consultants Inc.
 7164 Columbia Gateway Dr.
 Suite 203
 Columbia, MD 21046
 TEL: 410-872-9105
 FAX: 410-872-4870

DATE: 09/15/14
 CHK'D: M.J.B.

SCALE: 1"=50'
 JOB NO: 1498

FILE: WC LOT 3
 DRAWN: R.C.K.

8864 257

PATZ #3



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

NOV 17 2014

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

THIS AGREEMENT is made this 28th day of October 2014, among TOLL MDV / LP, 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 14513 Edgewoods Way Glenely MD in the 5th 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 10677 Folio 461.

40
20
K

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 ECOPOD ELO NCA.

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

864 JAN 2 98

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.

Beet Nijam 10/28/14
Howard County Health Department

X Somvora Aash 10/26/14
Owner #1 Signature Date

BUYER
JATTI RAO
Owner #1 Print Name

David Erad 11/4/14
Buyer #1 Signature Date

owner
DAVID ERAD TOLL BROTHERS, INC.
MD VLLP
Buyer #1 Print Name

X N. Lakshmi 10/26/14
Owner #2 Signature Date

LAXMI MACHAVARAPU
Owner #2 Print Name

IR - Agreement
Recording Fee 20.00
Grantor Name:
Howard County
Reference/Control #: 1
IR - Agreement charge 60.00
SubTotal: 80.00
Total: 120.00
11/05/2014 10:42
0013-00

Buyer #2 Signature Date
33408539 000503
Howard Co
Columbia/0095.03.02
Register #2
Buyer #2 Print Name

e3 Environmental LLC

302-725-0788 www.e3onsite.com

ECOPOD-N Completion Statement

Installation Information

Owners Name		# of Bedrooms / GPD	600
Street	14513 Edgewoods Way	Repair	<input type="checkbox"/>
City	Glenelgh	New Construction	<input checked="" type="checkbox"/>
State	MD		
Zip			

Installation Company

Company	Fogles	Installed Date	___/___/___
Certified Installer	Ricky Colson	Startup Date	3/2/15
Street	Obrecht Rd		
City	Sykesville		
State	MD		
Zip			

ECOPOD-N

Model #	Serial #
E50 <input type="checkbox"/>	
E60 <input checked="" type="checkbox"/>	E66N-02241-CA
E75 <input type="checkbox"/>	
E100 <input type="checkbox"/>	
E150 <input type="checkbox"/>	

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 Valley H Co
Signature Stewart R Kowitz
Printed Name Stewart R Kowitz

Date 3/2/15

MEMBER N. C. B. V. A.

MEMBER P. C. B. V. A.

Babylon

VAULT
SINCE 1930

Burial Vaults - Septic Tanks

PHONE:
410-848-0393
FAX:
410-848-3551

925 WAKEFIELD VALLEY ROAD
NEW WINDSOR, MD 21776

Five Year Initial Service Policy On Site Wastewater Treatment System

Brand Name: <u>ECOPOD</u>	Model Number: <u>ECOPOD 60</u>
Purchase Date: <u>3-2-15</u>	Serial Number: <u>EG003 02241 CA</u>

INITIAL POLICY:

A five (5) year service policy shall be furnished to the user by the Installer.

This policy is included in the original purchase price and shall provide the following:

1. An inspection/service call every six months which includes inspections, adjustment and servicing of the mechanical and electrical component parts as necessary to ensure proper function for the first year. And once a year there after..
2. An effluent quality inspection every six months consisting of a visual check for color, turbidity, scum overflow, and an examination for odors for the first year. And then once a year there after.
3. A sample shall be pulled from the aeration tank once a year as described in the "Solids Removal" Section to determine if there is an excess of solids in the treatment plant. If the test results determine if there is an excess of solids in the treatment plant. If the test results determine a need for solids removal, the user will bear the cost and responsibility for doing so.
4. If any improper operation is observed which cannot be corrected at that time, the user shall be notified immediately in writing of the conditions and the estimated date of correction.

Violations of Warranty including shutting off the electric current to the system for more than 24 hours, disconnecting the alarm system restricting ventilation to the aerator, overloading the system above its rated capacity, or introducing excessive amounts of harmful matter into the system, or any other form of unusual abuse.

**THIS POLICY DOES NOT INCLUDE PUMPING
SLUDGE FROM UNIT IF NECESSARY**

PERMITTING AUTHORITY:

Howard

SYSTEM OWNER:

INSTALLATION LOCATION:

14513 Edgewoods Way
Glenelgh MD

DISTRIBUTOR:

Babylon Vault Co.

INSTALLER:

Fogles
Oprecht Rd
Sylksville MD

SERVICE COMPANY:

Steven R Kromy G.M.
Service Operators License Number: _____

I agree to abide by the service policy as stated above: _____

Witness: _____

Williams, Jeffrey

From: Williams, Jeffrey
Sent: Friday, June 27, 2014 1:30 PM
To: 'Michael Boyce'
Cc: 'Nathan Brandenburg'
Subject: BAT plans

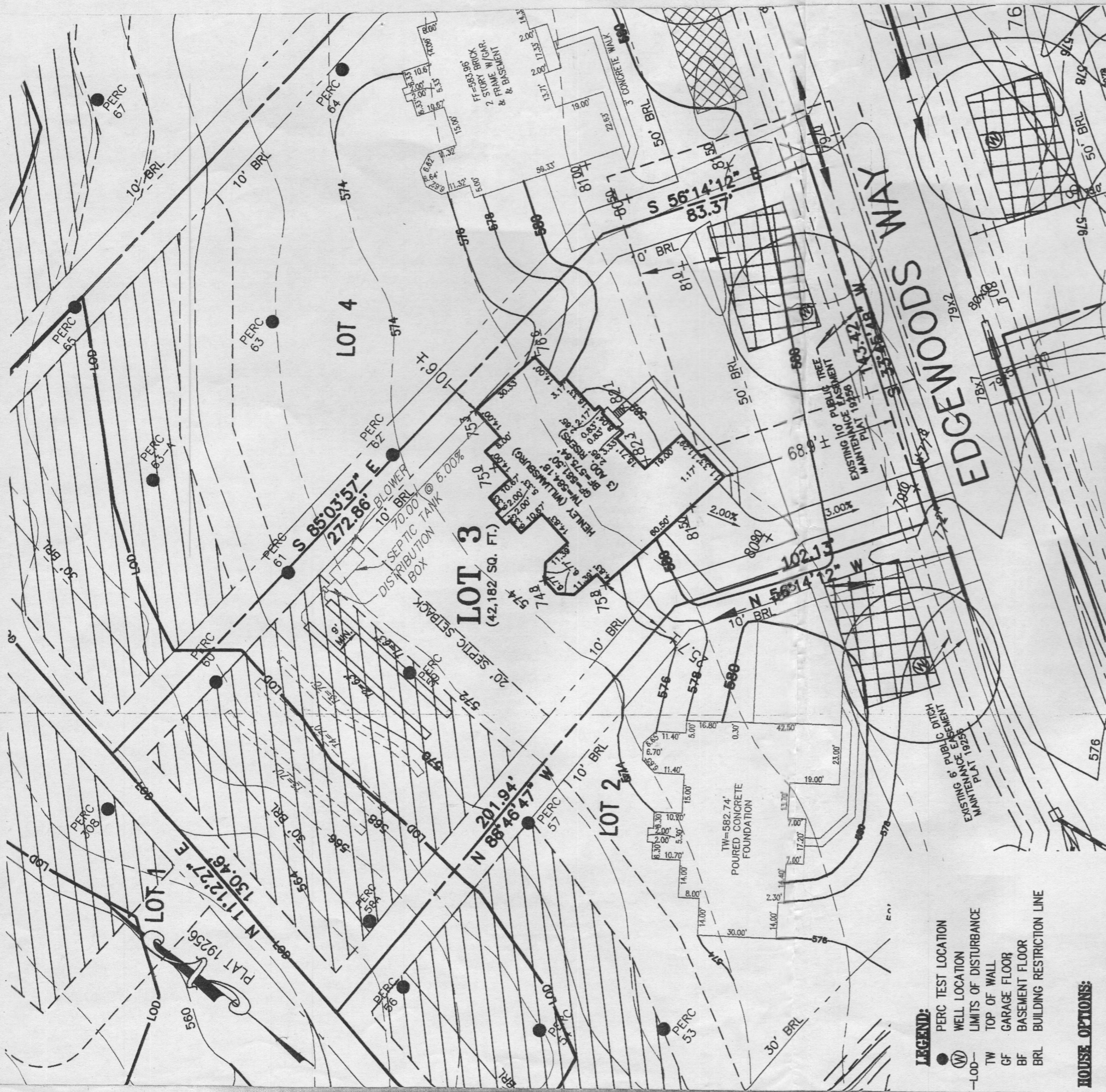
I've approved the BAT plans for Edgewood lot 36 and 3. I need a copy of floor plans in order to approve the building permit. Also, be advised that we will moving towards requiring O&M agreements to be signed and recorded prior to building permit approval, so please plan accordingly. Thanks

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@howardcountymd.gov

CONFIDENTIALITY NOTICE

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PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/15.



LEGEND:

- PERC TEST LOCATION
- WELL LOCATION
- ⊞ LIMITS OF DISTURBANCE
- TOP OF WALL
- GF GARAGE FLOOR
- BF BASEMENT FLOOR
- BRL BUILDING RESTRICTION LINE

HOUSE OPTIONS:

- TYPE: HENLEY (WILLIAMSBURG)
- WALKOUT BASEMENT
- EXPANDED FAMILY ROOM/GREAT ROOM
- CONSERVATORY ELITE ADDITION
- NAPLES SUNROOM ADDITION

- OPTION No. 017
- OPTION No. 023
- OPTION No. 039
- OPTION No. 529

SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) 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 SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET COVER.
- THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
- 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 THE 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.

SEWAGE DISPOSAL SYSTEM DATA (4 BDRM):

PROPOSED INVERT AT FOUNDATION WALL: 573.6'

1. E60 ECOPOD SYSTEM
EX. GRADE OVER TANK: 572.1'
PROPOSED GRADE OVER TANK: 572.1'
INVERT IN: 569.4' INVERT OUT: 569.1'

2. DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 571.4'
PROPOSED GRADE OVER TANK: 571.4'
INVERT IN: 568.9' INVERT OUT: 568.6'

3. TRENCH DESIGN—INITIAL SYSTEM
(4 BDRM x 150 GPD/BDRM = 600 GPD)
600 GPD ÷ 0.8 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
9' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.50 = 125 LF MIN. TRENCH
USE 2 63' LONG TRENCHES = 126 LF

4. BACK UP TRENCH DESIGN—1ST REPLACEMENT
(4 BDRM x 150 GPD/BDRM = 600 GPD)
600 GPD ÷ 0.8 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
9' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.83 = 207.50 LF MIN. TRENCH
USE 3 70' LONG TRENCHES = 210 LF

TRENCH DATA:

BOTTOM MAX. DEPTH (8')

- TRENCH 1 (T1):**
GROUND ABOVE = 571'
INV. IN = 567.4'
BOTTOM TRENCH = 56'

- TRENCH 2 (T2):**
GROUND ABOVE = 570'
INV. IN = 566.6'
BOTTOM TRENCH = 56'

- BACK UP TRENCH 3 (T3):**
GROUND ABOVE = 569'
INV. IN = 565.6'
BOTTOM TRENCH = 56'

- BACK UP TRENCH 4 (T4):**
GROUND ABOVE = 568'
INV. IN = 564.7'
BOTTOM TRENCH = 56'

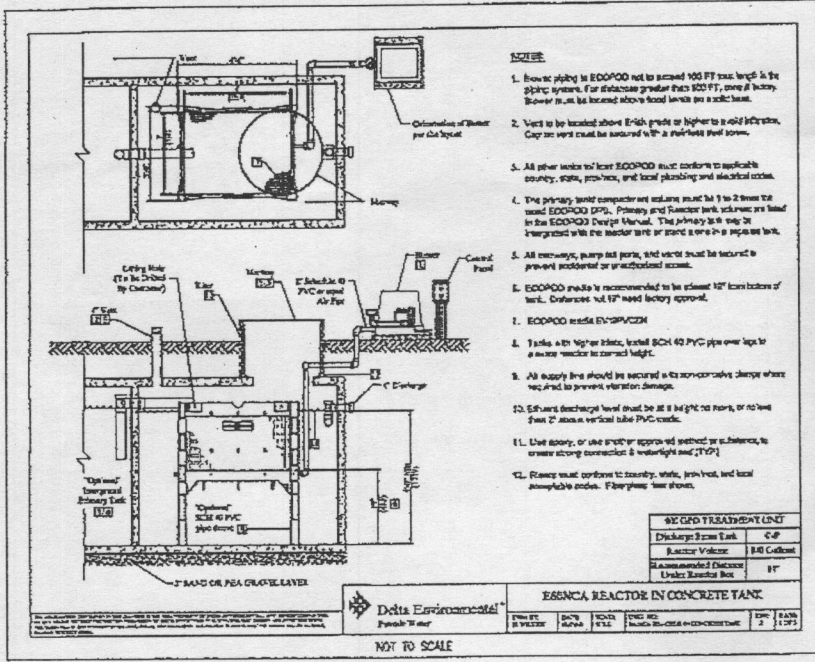
- BACK UP TRENCH 5 (T5):**
GROUND ABOVE = 567'
INV. IN = 563.5'
BOTTOM TRENCH = 55'

APPROVED: FOR HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION

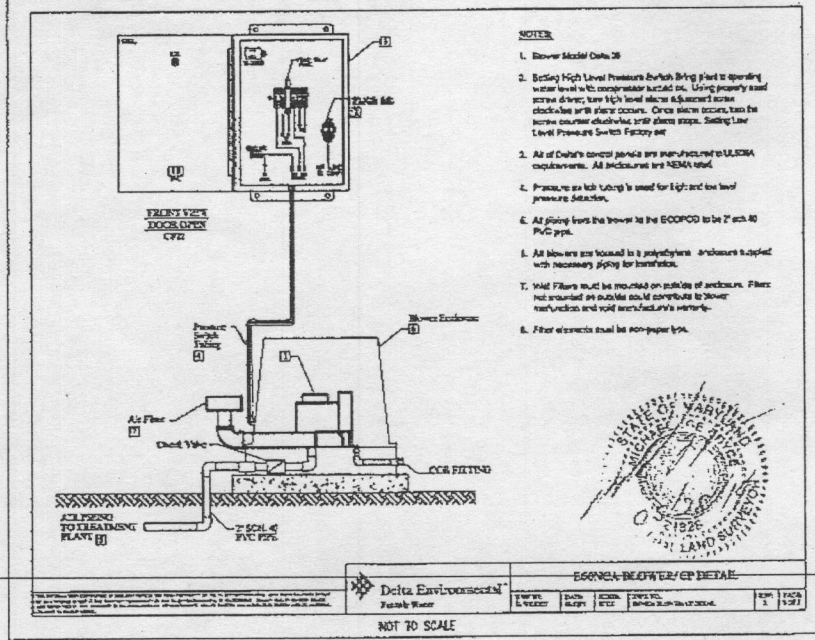
DATE

PLOT PLAN FOR BAT INSTALLATION
LOT 3
EDGEWOOD FARM
LIBER 10677, FOLIO 461
PLAT No. 19256



- SCALE**
- Blower piping to EGOPOD not to exceed 100 FT max length & the piping system. For distances greater than 100 FT, use of battery blower is to be located above local levels per a site plan.
 - Unit to be located above 8' high grade or higher to a solid structure. Cap or vent must be secured with a padlock that is tamper proof.
 - All other units to be located above 8' high grade or higher to a solid structure.
 - The primary, vent, compressor system must be 1 to 2 times the wind EGOPOD (EPG). Primary and vent lines shall be lead to the EGOPOD through the tank. The primary air may be interrupted with the motor air or start a one-to-one-to-a-pipe-to-tank.
 - All emergency, pump and parts, and vent must be secured to prevent accidental or unauthorized access.
 - EGOPOD shall be recommended to be placed 10' from bottom of tank. Contractor shall need factory approval.
 - EGOPOD model EV-200/200N
 - Tanks with higher tanks, listed SCH 40 PVC pipe over legs to a base reactor to correct height.
 - All supply lines should be secured with a non-corrosive clamp when not in use to prevent vibration damage.
 - Edwards discharge level shall be at a height no more, or no less than 2' above vertical tube PVC caps.
 - Use safety or use proper approval method to reference, to ensure strong connection & watertight seal (TWP)
 - Review must conform to factory, white, printed, and local applicable codes. Factory may show.

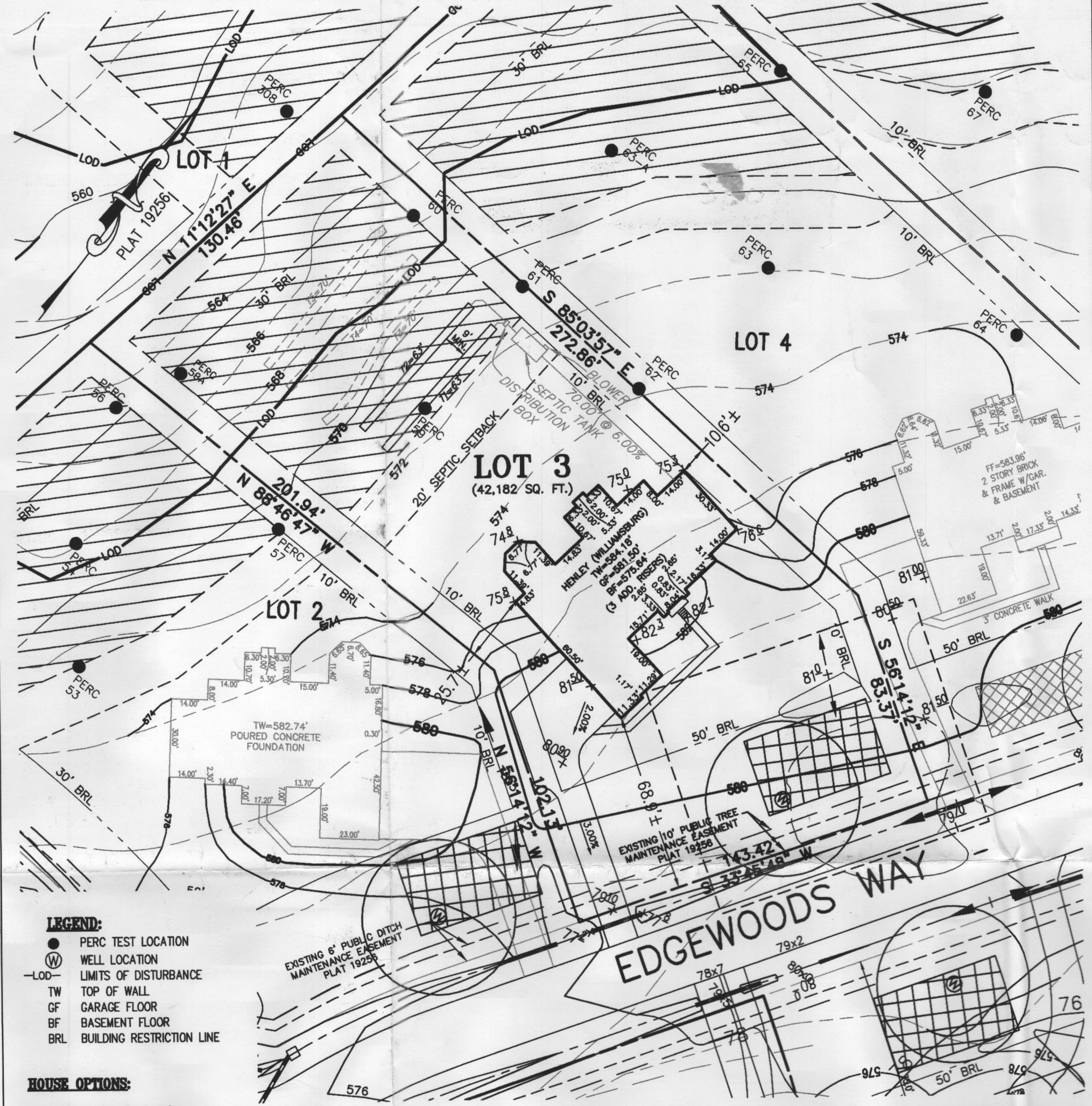
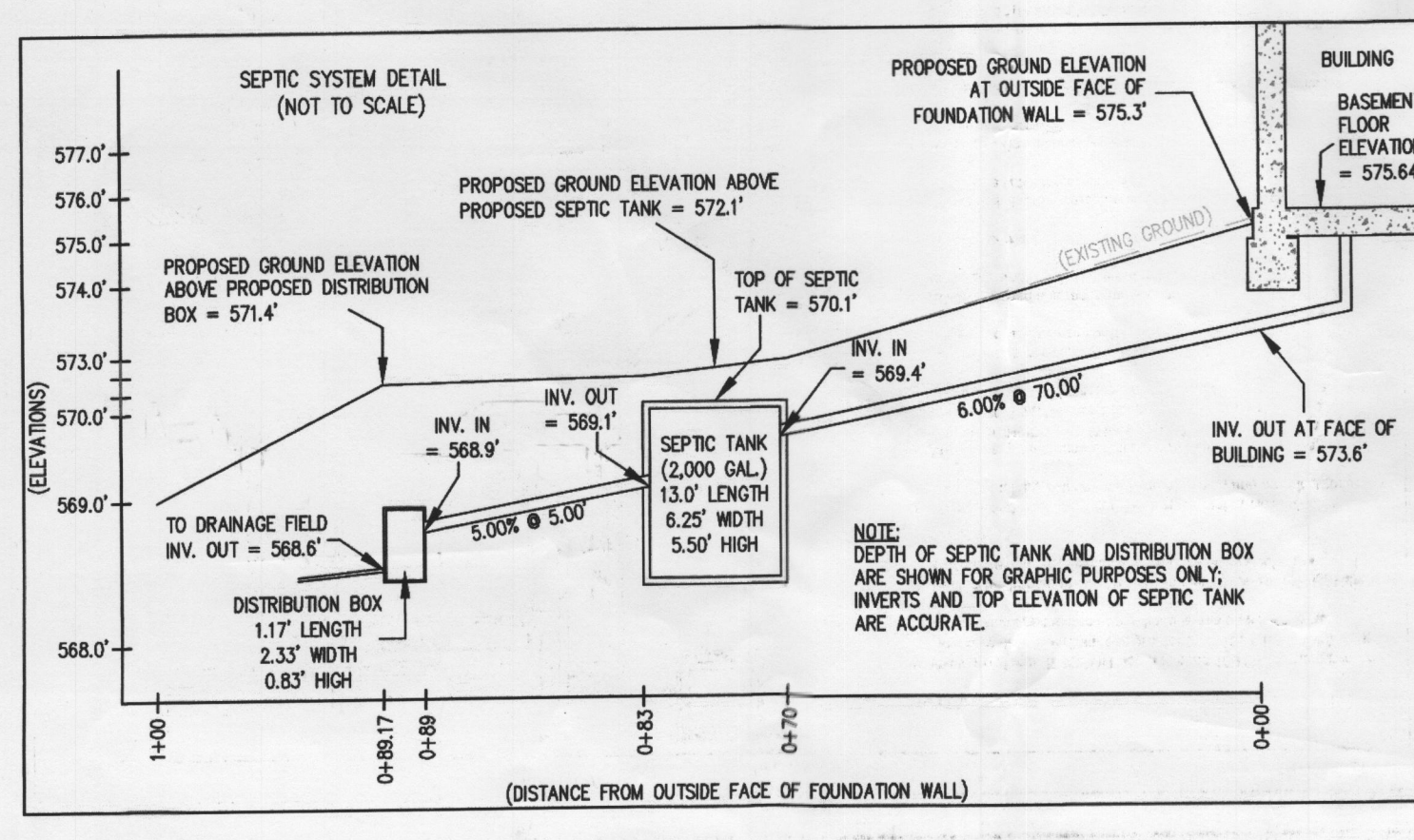
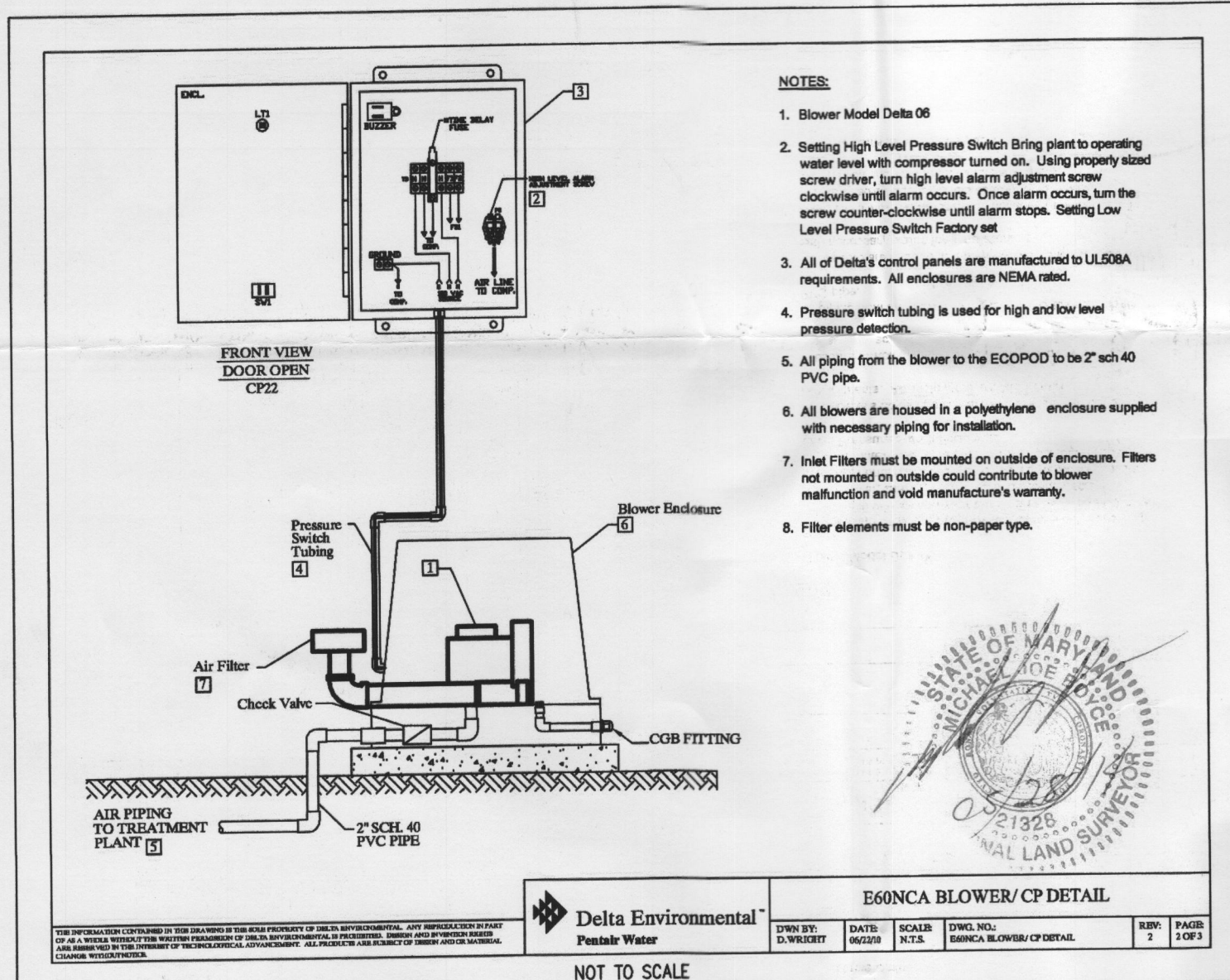
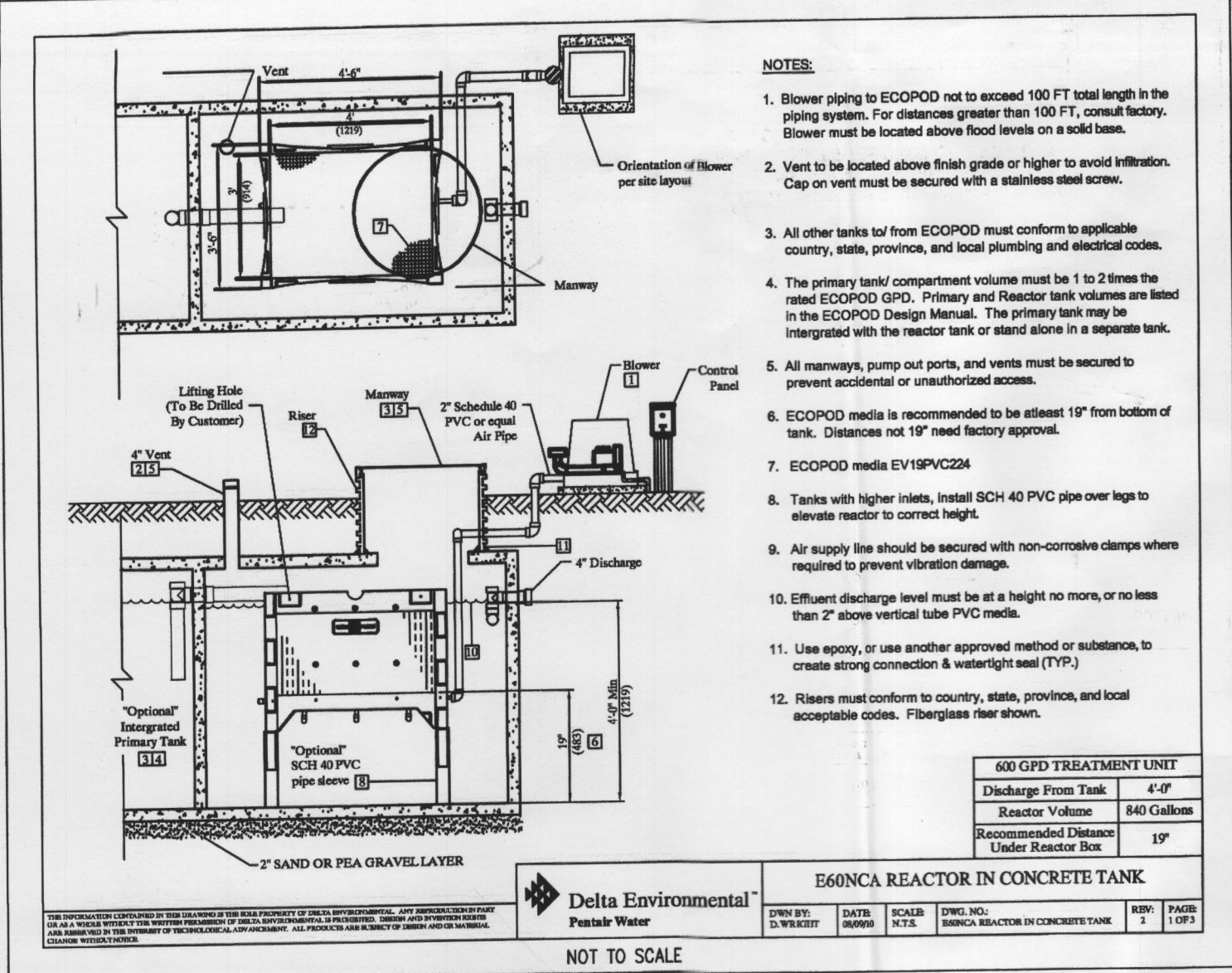
WATER TREATMENT UNIT	
Discharge From Tank	C/P
Reactor Volume	846 Gallons
Recommended Discharge	100 GPD
Units Reactor Box	10'



- NOTES**
- Blower Model Data 20
 - Setting High Level Pressure Switch being used to operating water level in its compressor located on. Using properly sized control wires, low high level alarm adjustment on the float valve with the float cover. Once shown secure, then the normal control should be set to stop. Setting Low Level Pressure Switch factory set
 - All of Delta's control panels are manufactured to UL/ISA requirements. All enclosures are NEMA rated.
 - Pressure air tubing is used for light and low level pressure detection.
 - All piping from the blower to the EGOPOD to be 2" sch 40 PVC pipe.
 - All blowers are housed in a polyethylene enclosure equipped with necessary safety for protection.
 - Wind Flares must be installed on outside of enclosure. Flares not mounted are double end to contribute to blower ventilation and void manufacturer's warranty.
 - Filter elements shall be non-paper type.

ESSENCA BLOWER/CP DETAIL	
Units Blower	1
Units CP	1
Units EPG	1
Units EGOPOD	1
Units Reactor Box	1
Units Tank	1
Units Piping	1
Units Electrical	1
Units Control Panel	1
Units Enclosure	1
Units Flare	1
Units Filter	1
Units Valve	1
Units Pipe	1
Units Tank	1
Units Piping	1
Units Electrical	1
Units Control Panel	1
Units Enclosure	1
Units Flare	1
Units Filter	1
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PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/15.



SEWAGE DISPOSAL SYSTEM DATA (4 BDRM):

PROPOSED INVERT AT FOUNDATION WALL: 573.6'

1. E60 ECOPOD SYSTEM
EX. GRADE OVER TANK: 572.1'
PROPOSED GRADE OVER TANK: 572.1'
INVERT IN: 569.4' INVERT OUT: 569.1'

2. DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 571.4'
PROPOSED GRADE OVER TANK: 571.4'
INVERT IN: 568.9' INVERT OUT: 568.6'

3. TRENCH DESIGN—INITIAL SYSTEM (4 BDRM x 150 GPD/BDRM = 600 GPD)
600 GPD x 0.8 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
9' MIN. SPACING BETWEEN TRENCH EDGES
750 SF x 3' WIDTH = 250 LF x 0.50 = 125 LF MIN. TRENCH
USE 2 63' LONG TRENCHES = 126 LF

4. BACK UP TRENCH DESIGN—1ST REPLACEMENT (4 BDRM x 150 GPD/BDRM = 600 GPD)
600 GPD x 0.8 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
9' MIN. SPACING BETWEEN TRENCH EDGES
750 SF x 3' WIDTH = 250 LF x 0.83 = 207.50 LF MIN. TRENCH
USE 3 70' LONG TRENCHES = 210 LF

TRENCH DATA:

BOTTOM MAX. DEPTH (8')

TRENCH 1 (T1):
GROUND ABOVE = 571.4'
INV. IN = 567.4'
BOTTOM TRENCH = 563.4'

TRENCH 2 (T2):
GROUND ABOVE = 570.6'
INV. IN = 566.6'
BOTTOM TRENCH = 562.6'

BACK UP TRENCH 3 (T3):
GROUND ABOVE = 569.6'
INV. IN = 565.6'
BOTTOM TRENCH = 561.6'

BACK UP TRENCH 4 (T4):
GROUND ABOVE = 568.7'
INV. IN = 564.7'
BOTTOM TRENCH = 560.7'

BACK UP TRENCH 5 (T5):
GROUND ABOVE = 567.5'
INV. IN = 563.5'
BOTTOM TRENCH = 559.5'

SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) NOTES:

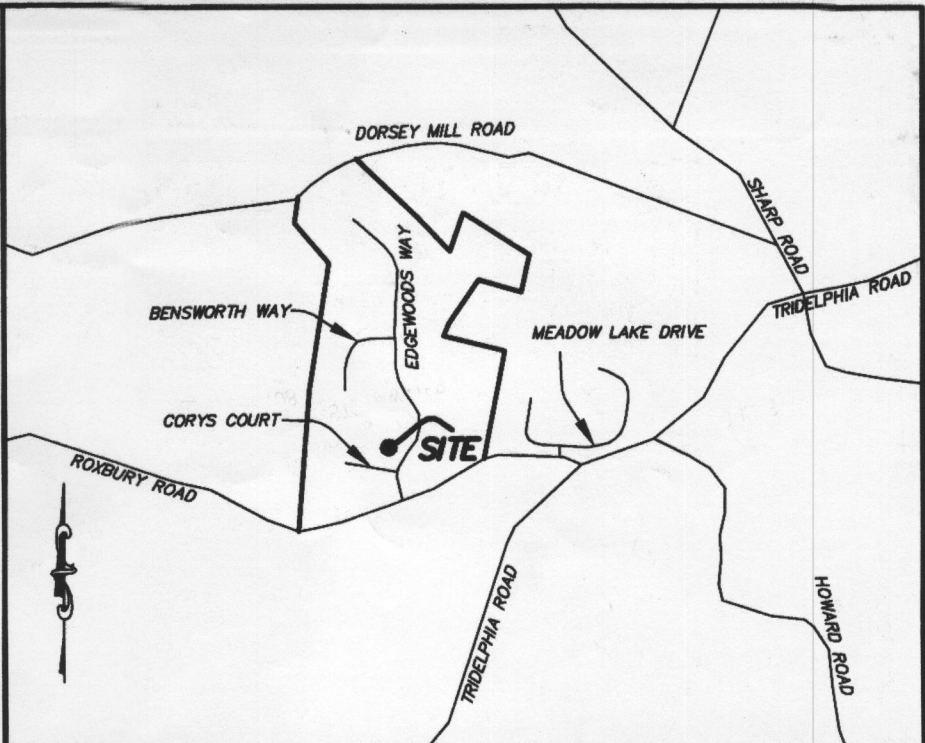
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET COVER.
- THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
- 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 THE 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.

APPROVED: FOR HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION _____ DATE _____

DIRECTOR _____ DATE _____

PROFESSIONAL ENGINEER _____ DATE _____



VICINITY MAP
1" = 2000'

- GENERAL NOTES:**
- THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 2/2/04 COMPREHENSIVE ZONING PLAN AND PER COMP-LITE ZONING REGULATIONS DATED 7/28/06.
 - PLAT REFERENCE: PLAT No. 19256.
 - THE EXISTING TOPOGRAPHY WITHIN THE AREA OF PROPOSED WORK IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY ESE. DATED 4/27/11.
 - SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND DESIGN DETAILS. PRIOR TO STAKEOUT FOR CONSTRUCTION, IT SHALL BE THE OWNER/BUILDERS RESPONSIBILITY TO PROVIDE ESE CONSULTANTS INC. WITH THE MOST RECENT SET OF HOUSE PLANS.
 - THE CONTRACTOR OR DEVELOPER SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT (410-313-1881) AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
 - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
 - TOTAL LIMIT OF DISTURBANCE: 33,933 SQ. FT. / 0.78 AC.±
 - STORMWATER MANAGEMENT PER PLAN F-06-108.
 - ANY DAMAGE TO PUBLIC "RIGHT-OF-WAYS" OR PAVED PUBLIC ROADS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS.
 - DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER (ESE) MAY CAUSE THE WORK TO BE UNACCEPTABLE.
 - THE DIMENSIONED DISTANCES SHALL GOVERN IF SCALED AND DIMENSIONED DISTANCES ON THIS PLAN ARE FOUND TO BE IN DISAGREEMENT.
 - THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM LOT AREA AND OWNERSHIP WIDTH AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 - THESE AREAS DESIGNATE A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS UNTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
 - EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
 - ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - UPON BUILDING PERMIT REVIEW THE SEPTIC SYSTEMS FOR ALL PROPOSED STRUCTURES AND/OR EXISTING STRUCTURE EXPANSIONS SHALL BE RE-EVALUATED TO DETERMINE SUFFICIENT SYSTEM CAPACITY.
 - THE DEVELOPMENT OF THIS LOT DOES NOT REQUIRE AN ENVIRONMENTAL CONCEPT PLAN SINCE STORMWATER MANAGEMENT WAS PREVIOUSLY APPROVED UNDER F-06-108.
 - A STANDARD SEDIMENT CONTROL PLAN MAY BE USED FOR DEVELOPMENT OF THIS LOT. REFERENCE GRADING PLAN GP-14-031, DATED 10/31/13.
 - THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-0755 HAS BEEN FIELD LOCATED BY ESE CONSULTANTS - PROFESSIONAL LAND SURVEYOR(S), AND IS ACCURATELY SHOWN.
 - BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
 - CULVERT FOR DRIVEWAY PER F-06-108.

Approved Septic System Plan
Howard County Health Department

Signature: _____ Date: 6/10/14

ESE Land Planning Engineering Land Surveying

ESE Consultants Inc.
7164 Columbia Gateway Dr.
Suite 203
Columbia, MD 21046
TEL: 410-872-9105
FAX: 410-872-4870

DATE: 05/28/14 SCALE: 1"=40' FILE: PP LOT 3
CHK'D: M.J.B. JOB NO: 1498 DRAWN: R.C.K.

PLOT PLAN FOR BAT INSTALLATION
LOT 3
EDGEWOOD FARM
LIBER 10677, FOLIO 461
PLAT No. 19256
TAX No. 04-372107
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
ADDRESS: 14513 EDGEWOODS WAY
GLENELG, MARYLAND