

**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: 3/9/15

**ONSITE SEWAGE DISPOSAL SYSTEM**

P 555765-A

INSTALLATION

APPROVAL DATE: 4/27/2015

**PERMIT  
CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 13072 Saint Patrick's Court

SUBDIVISION: White Oaks Estates

LOT: 23

TAX ID: \_\_\_\_\_

CONTRACTOR: South Carroll Backhoe

EMAIL: scbackhoe@comcast.net

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157

PHONE: 410-596-3618

PROPERTY OWNER: Richard Anderson

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

OWNER ADDRESS: 13072 Saint Patrick's Court

PHONE: \_\_\_\_\_

BAT UNIT MODEL: ECOPOD E60-NCA

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

PUMP TANK CAPACITY: 600 GPD

DISTRIBUTION SYSTEM: GRAVITY ☐

LOW PRESSURE DOSED ☐

NUMBER OF BEDROOMS: 4

TRENCHES:	LINEAR FEET REQUIRED: <u>180</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>4</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2.5</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:	Dry Well and existing septic tank must be pumped dry and abandoned prior to Health Department approval and installation.  <u>3x60' Trenches</u>	

ISSUED BY: Robert Bricker

ISSUE DATE: 3/9/15

EXPIRATION DATE: 3/15/15

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

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

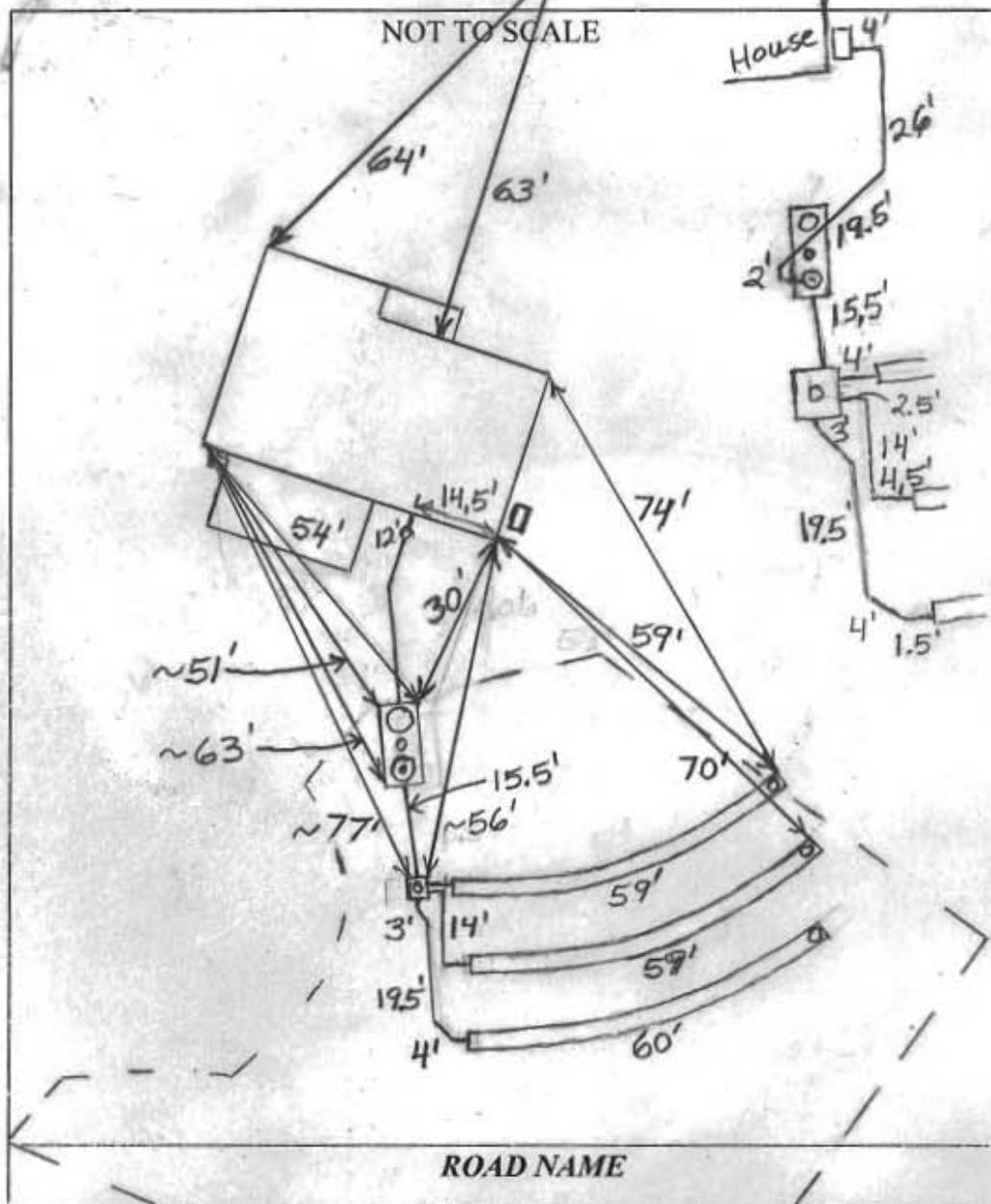
**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE  
SUCCESSFUL OPERATION OF ANY SYSTEM.**

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

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

HO-73-1490

NOT TO SCALE



## TRENCH/DRAINFIELD DATA

WIDTH INLET BOTTOM

3 2.5 4'

NUMBER OF TRENCHES 3

TOTAL LENGTH 178'

ABSORPTION AREA 534+Sidewall

DISTRIBUTION BOX LEVEL Levelers

DISTRIBUTION BOX BAFFLE Yes

DISTRIBUTION BOX PORT Yes

## SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL Yes

MANUFACTURER Babylon/Ecopod

CAPACITY 6000 GAL

SEAM LOC Top

TANK LID DEPTH 3'-4'

BAFFLES Front

BAFFLE FILTER N/A

MANHOLE LOC Front+Rear

6" PORT LOC Center

WATERTIGHT TEST No

SLOTTED N/A

DATE ON LID 1/25/2015

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:

3/11/2015 Install system similar to as shown on plan except shift trenches towards lot 24 to avoid large trees. Tank location staked. (BB)

## INSTALLATION: 3/13/15 BAT unit set per stake. (BB) 4/6/2015 Trenches

finished but no plumbing from or to tank done. (BB) (BB)

4/7/2015 Plumbing made to dist. box and trenches from tank. (BB)

4/9/2015 House connection made. Aerator installed. (BB)

4/10/2015 Start-up done. Told South Carroll to have the

Ecopod approval paper sent over to me. (BB) Ecopod

certification received from Babylon (BB)

FINAL INSPECTOR Brian

DATE OF APPROVAL 4/27/2015

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

### Five Year Initial Service Policy On Site Wastewater Treatment System

Brand Name: <u>ECOPOD</u>	Model Number: <u>ECOPOD 60</u>
Purchase Date: <u>3/13/15</u>	Serial Number: <u>ELGN 67264 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 thereafter.
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 thereafter.
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:

HAWAEE Cty.

#### SYSTEM OWNER:

\_\_\_\_\_  
\_\_\_\_\_

#### INSTALLATION LOCATION:

13072 ST Patricks Ct  
Highland MD 20772

#### DISTRIBUTOR:

Babylon Vault Co

#### INSTALLER:

S.C. Backhoe

#### SERVICE COMPANY:

Babylon Vault Co  
Service Operators License Number \_\_\_\_\_

agree to abide by the service policy as stated above: \_\_\_\_\_

Witness: \_\_\_\_\_

# e3 Environmental LLC

800-775-0706 www.e3onsite.com

## ECOPOD-N Completion Statement

### Installation Information

Owners Name	Richard + Mary Anderson	# of Bedrooms / GPD	400
Street	13072 ST Patricks CT	Repair	<input type="checkbox"/>
City	Highland	New Construction	<input checked="" type="checkbox"/>
State	MD		
Zip	20777		

### Installation Company

Company	South Carroll Backhoe	Installed Date	3/13/15
Certified Installer	MARK SEAL	Startup Date	4/8/15
Street	4410 Salem Bottom Rd		
City	Westminster		
State	MD		
Zip	21157		

### ECOPOD-N

Model #	Serial #
E50 <input type="checkbox"/>	
E60 <input checked="" type="checkbox"/>	EGON 02264 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 Vault Co  
 Signature Steven R Krontz  
 Printed Name STEVEN R Krontz

Date 4/8/15

11/09/76  
before noon please

# PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

P 24439

A 20505

ELLICOTT CITY

DISTRICT 5th

DATE 11/3/76

APPROVED  
INDEXED  
11-10-76

Jack Pyock

IS PERMITTED TO INSTALL ☒ ALTER

ADDRESS 13775 Triadelphia Rd. Glenelg, Md. 21727

PHONE 988-9270

A SEWAGE DISPOSAL SYSTEM LOCATED AT

SUBDIVISION White Oak Estates

ROAD Unnamed Rd. off Highland Rd. Lot 23, Sec #1  
(St. Patrick's Court)

PROPERTY OWNER Paul H. Kottis

ADDRESS 1015 Gadsden Ave., Silver Spring, Md. 20904

SPECIFICATIONS 8 Bedrooms

DRAIN FIELD DEPTH FEET, BOTTOM AREA SQ. FT.

SEEPAGE PITS ABSORBENT SIDE-WALL AREA SQ. FT.

SEPTIC TANK CAPACITY 1000 GALLONS

FOR GARBAGE GRINDER, INCREASE DISPOSAL AREA 22% & TANK CAPACITY 50%.

OTHER Drywell- 360 square foot sidewall area below inlet. Place the system 150 ft. from front lot line 85 feet right side of the lot as seen when facing the lot from St. Patrick's Court. Drywell inlet to be 4 feet deep and bottom of drywell to be 12 feet deep below original grade.

NOTE: ALL PIPE FROM HOUSE TO DISPOSAL AREA MUST BE CAST IRON.

PERMIT VOID AFTER THREE 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 ACCEPTED.

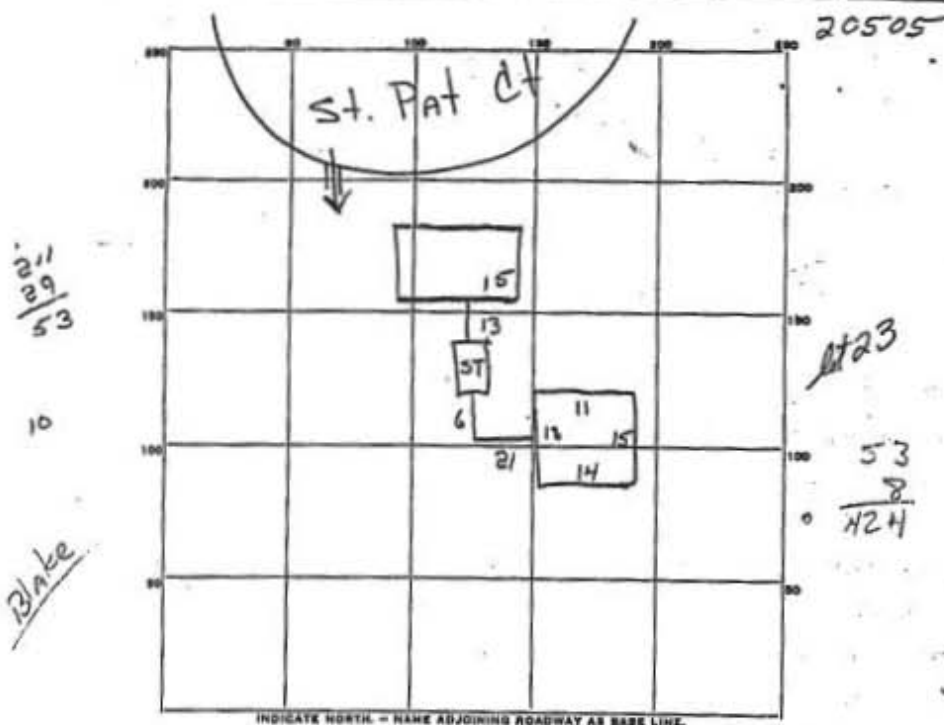
PLANS APPROVED BY Raymond Hodges

DATE 9/9/75

FILL SEPTIC TANK AND DISTRIBUTION BOX WITH WATER BEFORE CALLING FOR AN INSPECTION. COVER NO WORK UNTIL INSPECTED AND APPROVED.

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

10015



PERMIT CARD yes

SEPTIC TANK, LEVEL 1000 g/l

DISTRIBUTION BOX, LEVEL \_\_\_\_\_

TILE FIELD, DEPTH \_\_\_\_\_ FT. TRENCH WIDTH \_\_\_\_\_ FT.

GRAVEL DEPTH \_\_\_\_\_ IN. TOTAL LENGTH \_\_\_\_\_ FT.

NUMBER OF TRENCHES \_\_\_\_\_ TOTAL BOTTOM AREA \_\_\_\_\_

SEEPAGE PITS, INSIDE DIAMETER Perimeter 53 FT. DEPTH BELOW INLET 8 FT.

ABSORBENT AREA 424 SQ. FT.

REMARKS \_\_\_\_\_

DATE SYSTEM APPROVED 11-10-76 INSPECTOR hal henson



## Bureau of Environmental Health

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Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

### SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 13072 Saint Patricks Court

Subdivision: White Oak Estates Lot: 23

#5 & #6 Initial system: Application rate: 0.8 Effective area beginning depth: 2.5 Bottom maximum depth: 4  
#6 & #8 1st Replacement: Application rate: 0.8 Effective area beginning depth: 3 Bottom maximum depth: 6  
#7 2nd Replacement: Application rate: 0.8 Effective area beginning depth: 3.5 Bottom maximum depth: 7.5  
#9

Design Flow = 150 gallons per day per bedroom

Design flow + application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage + trench width

Sidewall reduction credit formula:

$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 6' for 2' wide trenches, 9' for 3' wide trenches. Additional spacing may be needed for deep trenches using formula:  $2D + W$
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

## SEPTIC TRENCH DESIGN (INITIAL SYSTEM)

- INITIAL SYSTEM:
  - APPLICATION RATE: 0.8
  - EFFECTIVE AREA BEGINNING DEPTH: 2.5'
  - BOTTOM MAXIMUM DEPTH: 4'
  - DISTANCE BETWEEN TRENCHES: 10'
- DESIGN FLOW:
  - 4 BEDROOMS AT 150 GPD
  - 4x150 GPD = 600 GPD
- SQUARE FOOTAGE OF DRAINFIELD REQUIRED:
  - DESIGN FLOW (600 GPD) / APPLICATION RATE (0.8) = 750
- SIDEWALL REDUCTION CREDIT:
  - TRENCH WIDTH (W) = 3'
  - TRENCH DEPTH (D) = 1.5'
  - (W+2) / (W+1+2D) x 100 = 71%
- LINEAR LENGTH OF TRENCH REQUIRED:
  - DRAINFIELD SQUARE FOOTAGE (750) x SIDEWALL REDUCTION PERCENTAGE (71%) / TRENCH WIDTH (3') = 177.5'
- LINEAR LENGTH OF TRENCH PROVIDED = 180'

TRENCH NUMBER	EXISTING GRADE	INVERT	TRENCH BOTTOM	LENGTH	WIDTH
1	502.2	499.7	498.2	60'	3'
2	501.0	498.5	497.0	60'	3'
3	500.0	497.5	496.0	60'	3'

## SEPTIC TRENCH DESIGN (REPLACEMENT SYSTEM)

- REPLACEMENT SYSTEM:
  - APPLICATION RATE: 0.8
  - EFFECTIVE AREA BEGINNING DEPTH: 1.5'
  - BOTTOM MAXIMUM DEPTH: 5'
  - DISTANCE BETWEEN TRENCHES: 10'
- DESIGN FLOW:
  - 4 BEDROOMS AT 150 GPD
  - 4x150 GPD = 600 GPD
- SQUARE FOOTAGE OF DRAINFIELD REQUIRED:
  - DESIGN FLOW (600 GPD) / APPLICATION RATE (0.8) = 750
- SIDEWALL REDUCTION CREDIT:
  - TRENCH WIDTH (W) = 3'
  - TRENCH DEPTH (D) = 3.5'
  - (W+2) / (W+1+2D) x 100 = 45%
- LINEAR LENGTH OF TRENCH REQUIRED:
  - DRAINFIELD SQUARE FOOTAGE (750) x SIDEWALL REDUCTION PERCENTAGE (45%) / TRENCH WIDTH (3') = 120.5'
- LINEAR LENGTH OF TRENCH PROVIDED = 123.00'

TRENCH NUMBER	EXISTING GRADE	INVERT	TRENCH BOTTOM	LENGTH	WIDTH
1	499.7	498.2	494.7	41'	3'
2	498.4	496.9	493.4	41'	3'
3	497.0	495.5	492.0	41'	3'

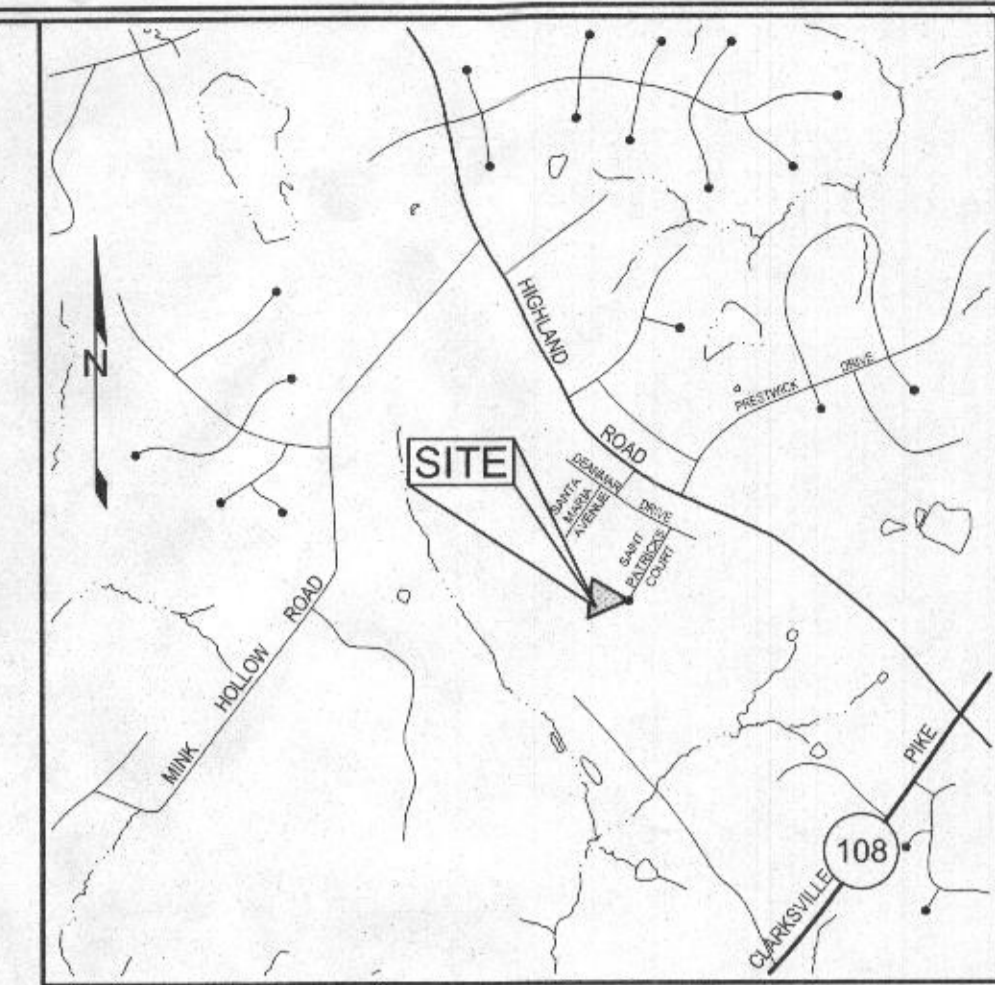
## SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GmB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GmB	GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	0.37
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	0.24

- NOTES:
- SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
  - HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

## LEGEND

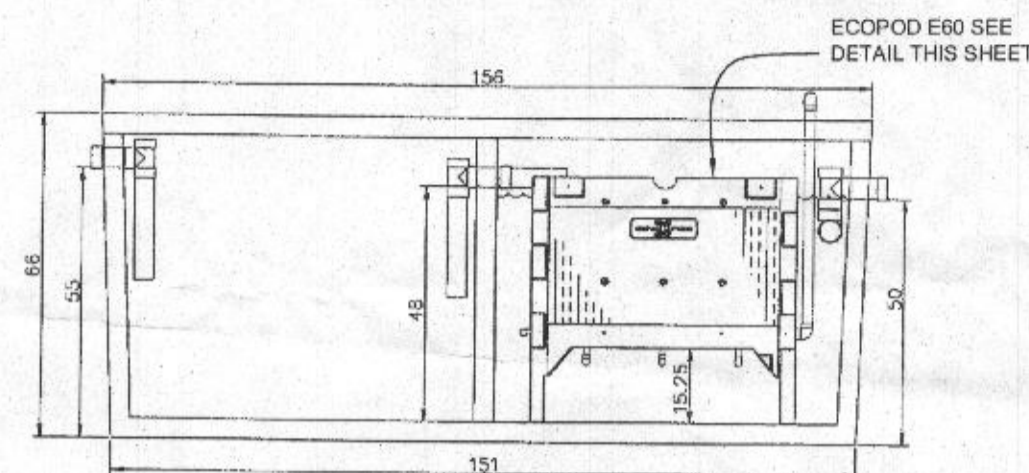
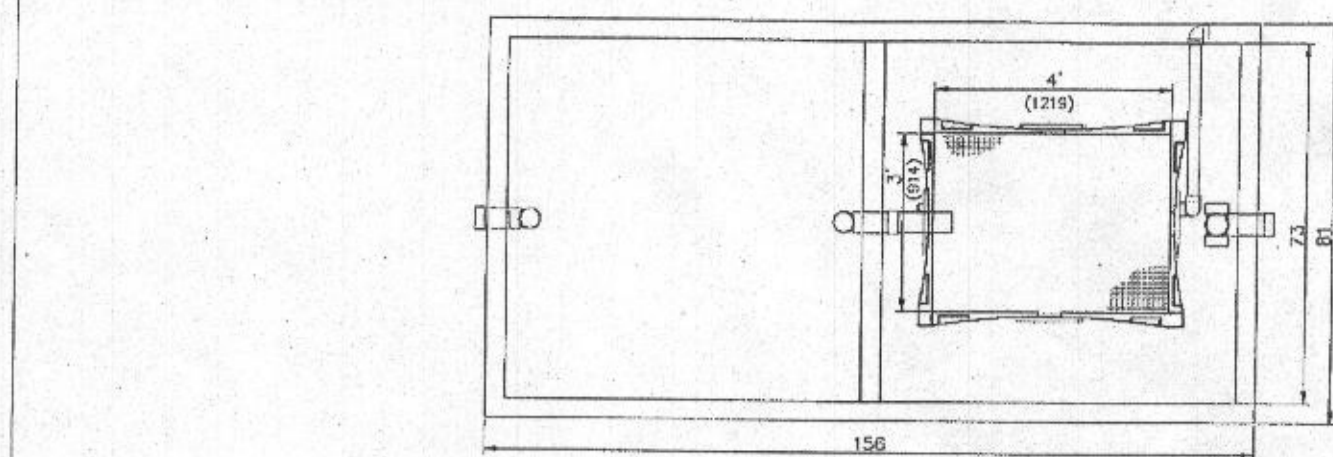
- EXISTING CONTOUR
- PERCOLATION TEST HOLE, PASSED ON 9/19/17/4
- PERCOLATION TEST HOLE, PASSED ON 2/21/2014
- SOIL BOUNDARY
- EXISTING TREE
- EXISTING CLENOT
- PROPOSED 130 SF WELL AREA
- 25% STEEP SLOPES



VICINITY MAP  
SCALE: 1"=2000'

## BAT NOES

- 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 COVER OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 2'.
- THE BLOWER/MAN NOT BE LOCATED MORE THAN 50' 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 SYSTEM 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.



PENTAIR  
ECOPOD E60 SEE DETAIL THIS SHEET  
DELTA ENVIRONMENTAL

## ELECTRICAL REQUIREMENTS

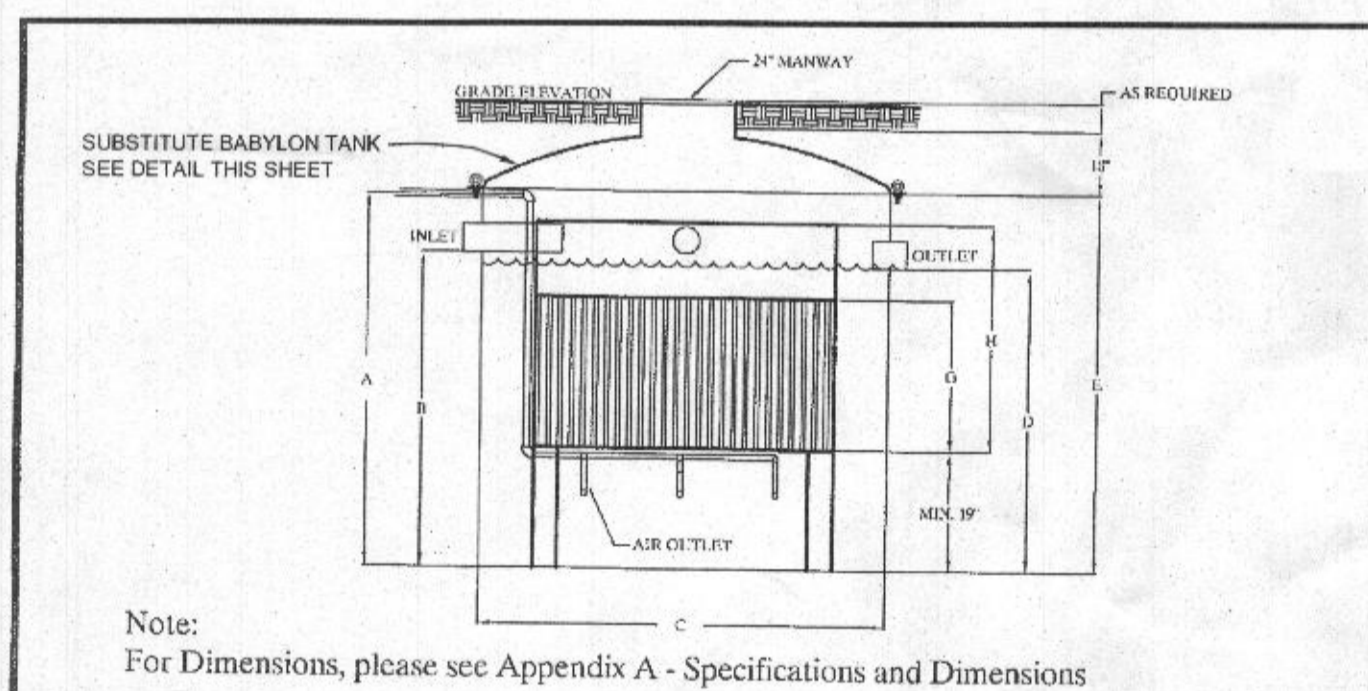
Model	Compressor	Motor full load Amps	Measured Operating Watts	Electrical Requirements
E50	Delta Model E50	3.5	185 watts	115 volt - single phase
E60	Delta Model E60	4.7	280 Watts	115 volt - single phase

## DIMENSIONS

\*For Delta furnished fiberglass tanks only

TREATMENT ECOPOD	A	B	C	D	E	F	G	H
E50	4'-11 3/16"	4'-2"	6'-0"	4'	5'-0"	10"	2'	3'
E60	5'-7 3/4"	4'-6"	6'-3"	4'-4"	5'-0"	11 1/2"	2'	3'

REFER TO TREATMENT ECOPOD DRAWINGS ON THE ABOVE DIMENSIONS.

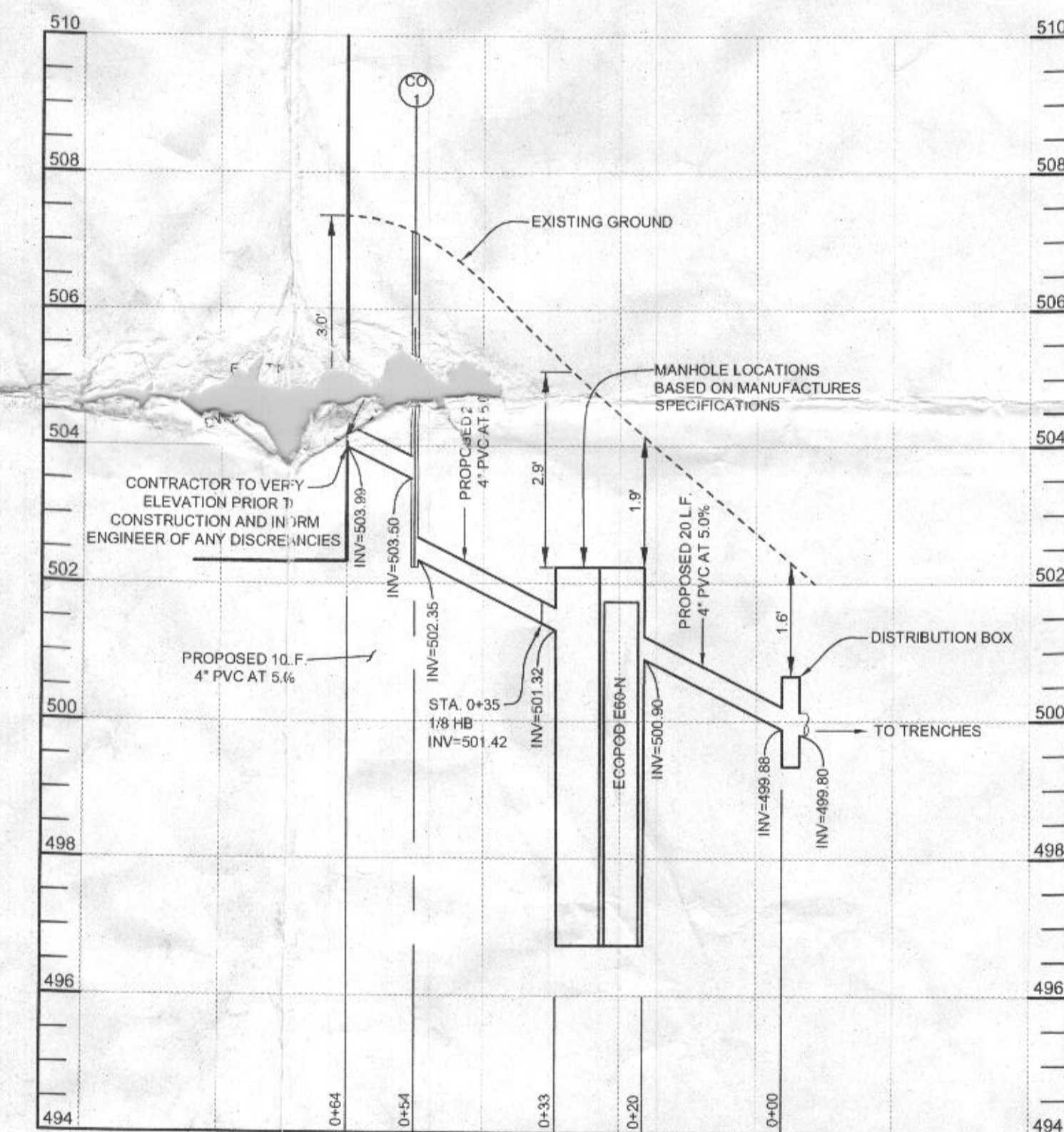


## WASTEWATER TREATMENT UNITS MODEL EXX-FECOPOD

Delta Environmental Products  
P.O. Box 969 Denham Springs, LA 70727

DESIGNED BY: C.RACHAL DATE: 10/1/2014 SCALE: N.T.S. DWG. NO.: EXX-F-MN

- NOTE:
- SEE THE DETAIL ON PAGE 17 OF ECOPOD DESIGN MANUAL <http://www.deltainvironmental.com/pdfs/ECOPODINM4508.pdf>
  - THE PROPOSED HOUSE CONTAINS 4 BEDROOMS, SO ECOPOD MODEL E60-N WILL BE UTILIZED ON THIS SITE.



BAT PROFILE VIEW  
HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=2'

## OWNER/DEVELOPER

ALLAN HOMES INC.  
10260 OLD COLUMBIA ROAD  
COLUMBIA MD, 21046  
410.877.5700

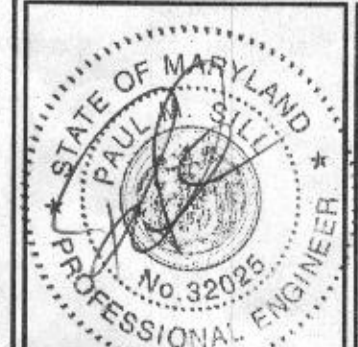
## SITE PLAN FOR BAT INSTALLATION

13072 SAINT PATRICKS COURT

LOT 23

TAX MAP 34  
5TH ELECTION DISTRICT

PARCEL 355  
HOWARD COUNTY, MARYLAND



## Adcock & Associates, LLC

Engineers - Surveyors - Planners  
3300 North Ridge Road, Suite 100  
Ellicott City, Maryland 21043  
Phone: 443.325.7682 Fax: 443.325.7685  
Email: info@asalland.com

DESIGN BY: PS  
DRAWN BY: JT  
CHECKED BY: PS  
SCALE: AS SHOWN  
DATE: OCTOBER 24, 2014  
PROJECT #: 14-083  
SHEET #: 2 of 2

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. 32025, EXPIRATION DATE: JUNE 20, 2015.

E.B. HARRY  
L. 239 / F. 74

- NOTES:
1. THIS PLAT IS A BENEFIT TO THE CONSUMER ONLY INsofar AS IT IS REQUIRED BY A LENDER OR A TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH CONTEMPLATED TRANSFER, FINANCING OR REFINANCING PURPOSES. THIS PLAT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATION OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE STRUCTURES. THIS PLAT DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR FOR SECURING FINANCING OR REFINANCING.
  2. THE +/- SETBACK ACCURACY IS 1 FOOT.
  3. THIS PLAN OR PLAT IS NOT INTENDED TO SHOW ALL MATTERS RELATED TO THE PROPERTY SHOWN HEREON.
  4. B.R.L. = BUILDING RESTRICTION LINE

THIS LOT DOES NOT APPEAR TO LIE WITHIN THE 100 YEAR FLOOD PLAIN AS SHOWN ON THE F.E.M.A. FLOOD HAZARD MAP 24027C-0140-D AS REVISED NOVEMBER 6, 2013.

P.B. 30, P.N. 51

Z

LOT 23  
80,333 S.F.±

PRIVATE SEWAGE EASEMENT  
PER PERCOLATION CERTIFICATION  
PLAN APPROVED ON MAY 16, 2014

LOT 24

LOT 22

LOT 25

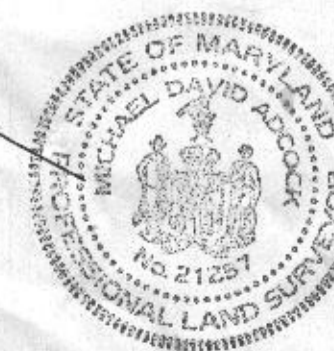


Wall Check  
OK'd 3/19/15  
H.O.

WELL NO.  
H.O.-73-1490

L=46.71'  
R=50.00"

ST. PATRICKS COURT  
50' R/W



CERTIFICATION  
I HEREBY CERTIFY THAT I WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION OF THIS BOUNDARY SURVEY AND THE SURVEY WORK REFLECTED IN IT, IS IN COMPLIANCE WITH REQUIREMENTS SET FORTH IN THE CODE OF MARYLAND TITLE 9, SUBTITLE 13, CHAPTER 08, REGULATION 12, AND THE POSITION OF EXISTING IMPROVEMENTS AS SHOWN HEREON, ARE CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MICHAEL D. ADCOCK  
PROFESSIONAL LAND SURVEYOR  
NO. 21257, EXPIRATION DATE: 06-16-2015

Adcock &  
Associates · LLC  
Engineers · Surveyors · Planners  
3300 North Ridge Road, Suite 160  
Ellicott City, Maryland 21043  
Phone: 443.325.7682 Fax: 443.325.7685  
Email: mike@saaland.com

LOCATION DRAWING  
13072 ST. PARTICKS COURT  
LOT 23  
WHITE OAK ESTATES  
HIGHLAND ROAD  
CLARKSVILLE, MD  
ELECTION DISTRICT NO. 5  
HOWARD COUNTY, MARYLAND

REFERENCE:  
P.B. 30, P.N. 51  
DATE:  
FEBRUARY 25, 2015  
SCALE:  
FILE NO.

99  
106

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GmB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GmB	GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	0.37
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 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

# LEGEND

EXISTING CONTOUR

PERCOLATION TEST HOLE, PASSED  
ON 9/19/1974

PERCOLATION TEST HOLE, PASSED  
ON 2/21/2014

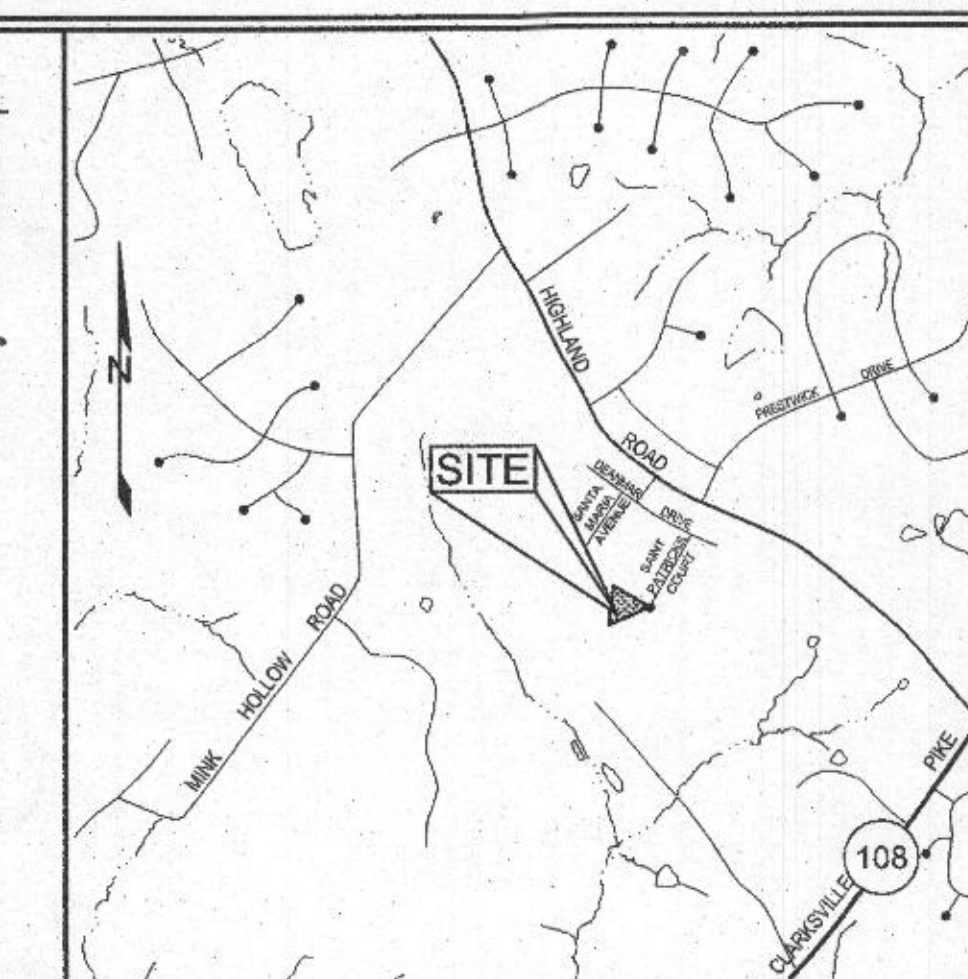
SOIL BOUNDARY

EXISTING TREE

EXISTING CLEAN OUT

PROPOSED 1,000 SF WELL AREA

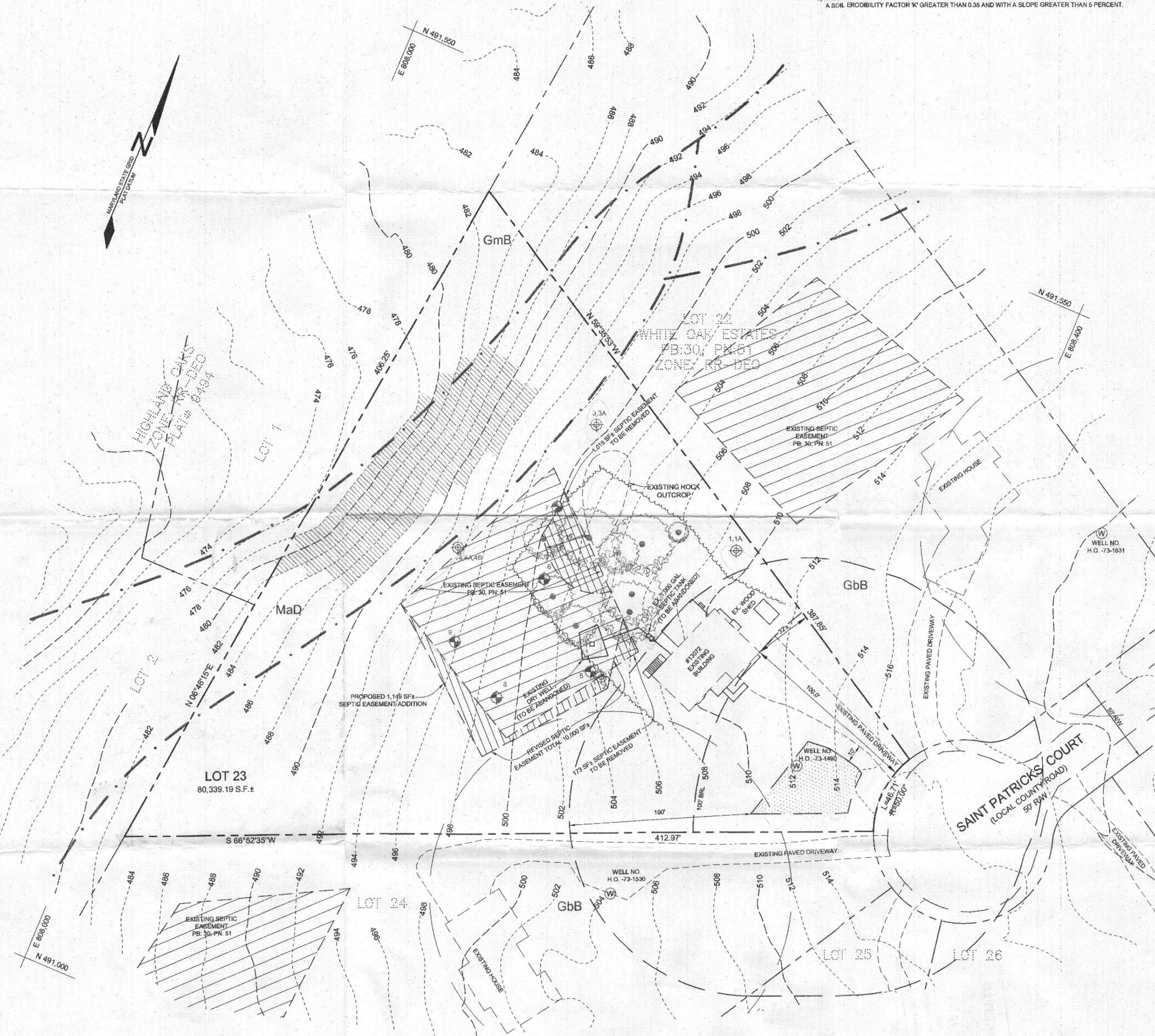
2% STEEP SLOPES



VICINITY MAP  
SCALE: 1"=200'

## GENERAL NOTES

- SUBJECT PROPERTY ZONED RR-DEO PER 02/02/04 COMPREHENSIVE ZONING PLAN.
- TOTAL AREA OF PROPERTY = 1.84 AC.
- PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT, OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS 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 SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
- THE BOUNDARY SHOWN HEREON IS BASED ON A RECORD PLAT AND TAX MAP INFORMATION.
- THE TOPOGRAPHY SHOWN HEREON IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2011.
- PROPERTY ADDRESS: 13072 SAINT PATRICK COURT
- REFERENCES: LIBER 4337, FOLIO 527; PLAT BOOK: 30, PLAT PAGE: 51
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS HAVE BEEN FIELD LOCATED. LOCATED WELLS WITHOUT A WELL TAG SHOWN DID NOT HAVE ONE.
- THE EXISTING WELL SHOWN ON THIS PLAN (#73-1490) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
- THE SEPTIC SYSTEM MUST BE REPLACED AND ABANDONED. THE REPLACEMENT SYSTEM WILL CONSIST OF A TANK AND TRENCHES ADEQUATE TO RECEIVE THE ESTIMATED DISCHARGE FROM A SINGLE RESIDENCE. *The septic system must be upgraded prior to Health Dept. approval of any Building Permit.*
- THE PURPOSE OF THIS PLAN IS TO RECORD A REVISED PERCOLATION CERTIFICATION PLAN FOR THE EXISTING SEPTIC AREA.



PLAN VIEW  
SCALE: 1"=30'

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AS IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PAUL W. SILL, P.E. LEED AP  
LICENSED PROFESSIONAL ENGINEER #32025

DATE

APPROVED: *Paul W. Sill* 5/16/2014  
COUNTY HEALTH OFFICER  
HOWARD COUNTY HEALTH DEPARTMENT

## OWNER/DEVELOPER

RICHARD AND MARY ANDERSON  
13072 SAINT PATRICKS COURT  
HIGHLAND MD, 20777

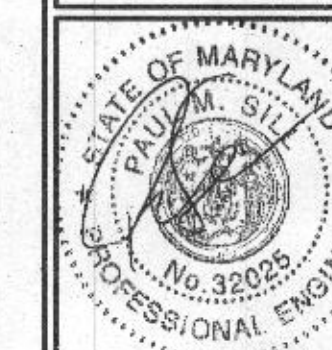
## PERCOLATION CERTIFICATION PLAN

13072 SAINT PATRICK COURT

LOT 23

TAX MAP 34  
5TH ELECTION DISTRICT

PARCEL 355  
HOWARD COUNTY, MARYLAND



**Sill · Adcock &  
Associates · LLC**

Engineers · Surveyors · Planners  
3300 North Ridge Road, Suite 160  
Ellicott City, Maryland 21043  
Phone: 443.325.7682 Fax: 443.325.7685  
Email: info@silladcock.com

DESIGN BY: PS  
DRAWN BY: JT  
CHECKED BY: PS  
SCALE: AS SHOWN  
DATE: MAY 5, 2014  
PROJECT #: 13-110  
SHEET #: 1 of 1

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. 32025, EXPIRATION DATE: JUNE 20, 2019.