

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: 10/30/13 **ONSITE SEWAGE DISPOSAL SYSTEM** P 545179  
 INSTALLATION **PERMIT**  
 APPROVAL DATE: \_\_\_\_\_ A 523944  
**CONSTRUCTION**

PROPERTY ADDRESS: 6210 Heather Glen Way  
 SUBDIVISION: Preserve at Clarksville LOT: 2 TAX ID: \_\_\_\_\_  
 CONTRACTOR: Fogle's Septic EMAIL: \_\_\_\_\_  
 CONTRACTOR ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 PROPERTY OWNER: Dayton Oaks, LLC EMAIL: \_\_\_\_\_  
 OWNER ADDRESS: 6206 Heather Glen Way PHONE: 410-531-1223

BAT UNIT MODEL: Ecopod E100-N BAT UNIT SIZE: 1000 GPD/ 2000 g tank  
 PUMP CHAMBER CAPACITY (GALLONS): N/A PUMP SIZE: N/A  
 NUMBER OF BEDROOMS: 6 HOUSE SQ. FT. \_\_\_\_\_ APPLICATION RATE: 0.8  
 DISTRIBUTION SYSTEM: GRAVITY FED  LOW PRESSURE DOSED

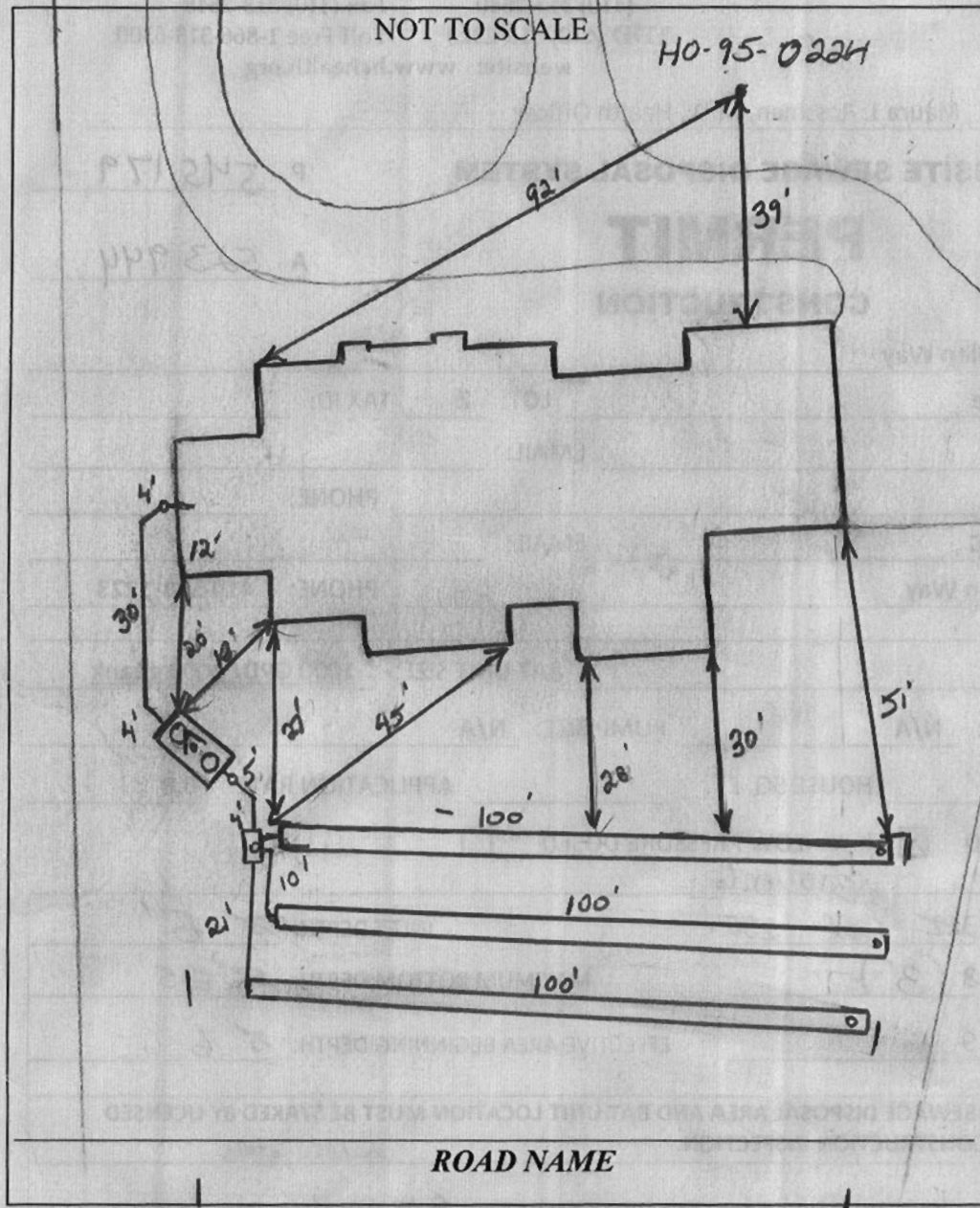
TRENCHES:	LINEAR FEET REQUIRED: <u>312</u> <sup>(3)310 (0.6)</sup> <sub>300' (232+)</sub>	INLET DEPTH: <u>8 5'</u>
	TRENCH WIDTH: <u>3 (3')</u>	MAXIMUM BOTTOM DEPTH: <u>8 0.5'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>9</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5 6'</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION. <i>n/82 stone</i>	
NOTES:	Start-up approval by BAT manufacturer required prior to permit approval. <u>3 X 100'</u>	

ISSUED BY: [Signature] ISSUE DATE: 11/1/13 EXPIRATION DATE: 11/1/14

- 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.**

1" = 30'



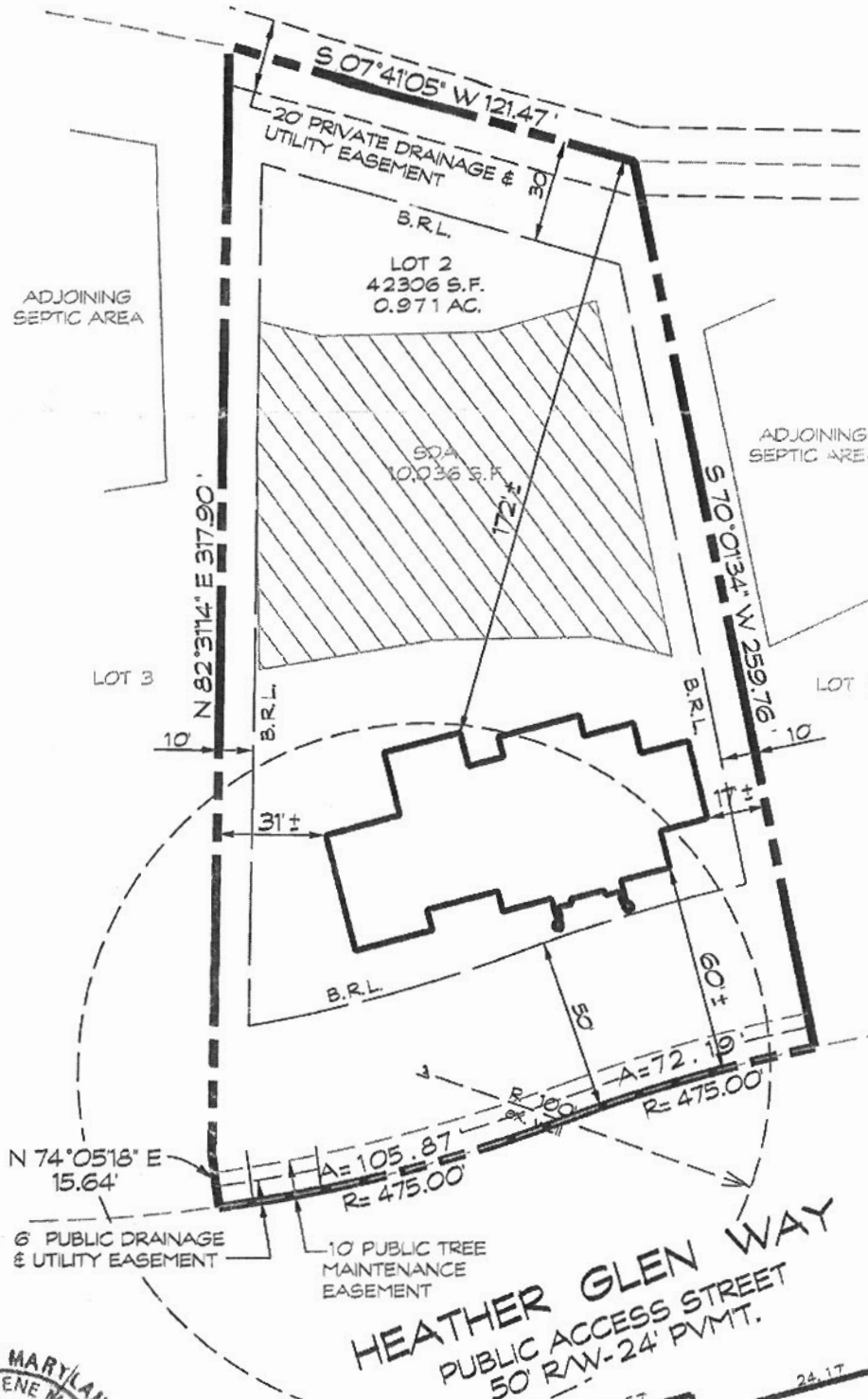
TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3	5'	8.5'
NUMBER OF TRENCHES		3
TOTAL LENGTH		300'
ABSORPTION AREA		900' + SW
DISTRIBUTION BOX LEVEL		leveler's
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		Yes

E75N	
SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	Yes
MANUFACTURER	Bublyn Escopod
CAPACITY	2000 GAL
SEAM LOC	Top
TANK LID DEPTH	4'
BAFFLES	Yes
BAFFLE FILTER	no
MANHOLE LOC	Front / Rear
6" PORT LOC	under
WATERTIGHT TEST	—
SLOTTED	Yes
DATE ON LID	
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:**  
 11/4/13 Large amounts of fill comprized SRA. Dug hole near top part of SRA. ~ 4' of fill. close to 5'-6' near top corners of SRA. No layout given. Need to remove fill. No tank location given. Builder arrived on-site. Discussed nature of fill and placing fill back on after system goes in. Explained not suitable, should try to limit amount over SRA. (KW)

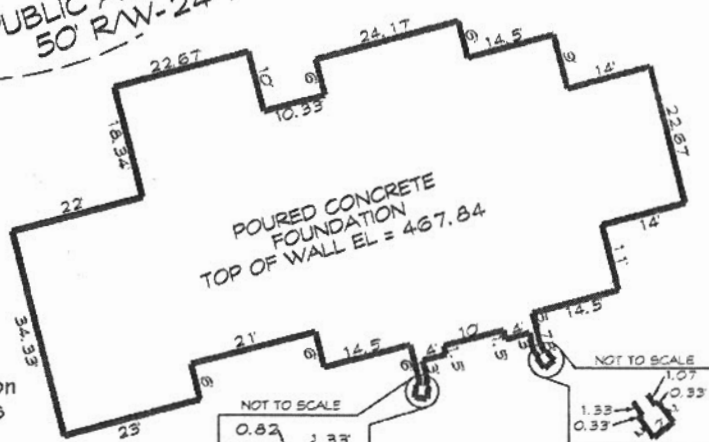
**INSTALLATION:** 11/5/2013 Laid out three 100' trenches.  
 11/6/13 Escopod 75 series tank set. SAC installed. No trenches started (KW)  
 11/7/13 Top 2 trenches just about complete. D box set looks ok to continue. 11/8/13 Trenches complete. Need to perform start-up of BAT unit for final approval (KW)  
 12/13/13 Start-up cert received - approved. (KW)

FINAL INSPECTOR [Signature] DATE OF APPROVAL 12/13/13

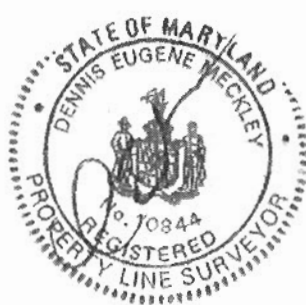


Wall check  
OK  
Jew  
10/1/13

PLAN  
SCALE: 1" = 50'



FOUNDATION CERTIFICATION  
LOT 2  
THE PRESERVE AT CLARKSVILLE  
HEATHER GLEN WAY  
5th ELECTION DISTRICT • HOWARD COUNTY, MARYLAND  
RECORDED IN PLAT 19215



I hereby certify that I have surveyed the property shown hereon for the sole purpose of locating the improvements. This plan is a benefit to the customer only in so far as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing or refinancing. It is not to be relied upon for the establishment of boundary, easement or right-of-way lines for any reason, such as the location of fences, garages, buildings, or other existing or future improvements. Offsets of buildings to property lines are to the nearest foot (1') unless otherwise noted.

By: *Dennis E. Meckley* Date: 4/11/13  
Dennis E. Meckley Property Line Surveyor No. 10844  
License expires March 29, 2014

A licensed Maryland Surveyor either personally prepared this Location Drawing, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with the Maryland Minimum Standards of Practice for Land Surveyors. (COMAR 09-13-06.06 AND .12)



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

DRAWN BY:	BM
DESIGN BY:	
REVIEW BY:	DEM
DATE:	4/11/13
SCALE:	AS SHOWN
JOB NO:	2007035
SHEET:	1 OF 1

P220

30 BRL U88 AC

Eco-POD Blower Location

2,000 gallon top room P508 with Eco-POD Blower Treatment Tank

LOT 2

43792  
P2192  
0.992

P51C

P218  
30'

P410

P411 10' BRL TANK

LOT 3

EV SDA  
060 SE

350AL

66.38

30.57

17.14

18.29

50' BRL

40.54

Eco-POD Control Box  
F.F.E. 468.8  
B.E. 459.0

466TS

31143

10' BRL  
B (300055)

Approved Septic System for  
San Diego County Health Department

Area Enclosed

HO-95-022  
N 559981

ST AB2548  
N 400145  
E 614GRM

83.3  
71.23

6" PUBLIC DRAINAGE & UTILITY EASEMENT  
10' PUBLIC TREE MAINTENANCE E.C.

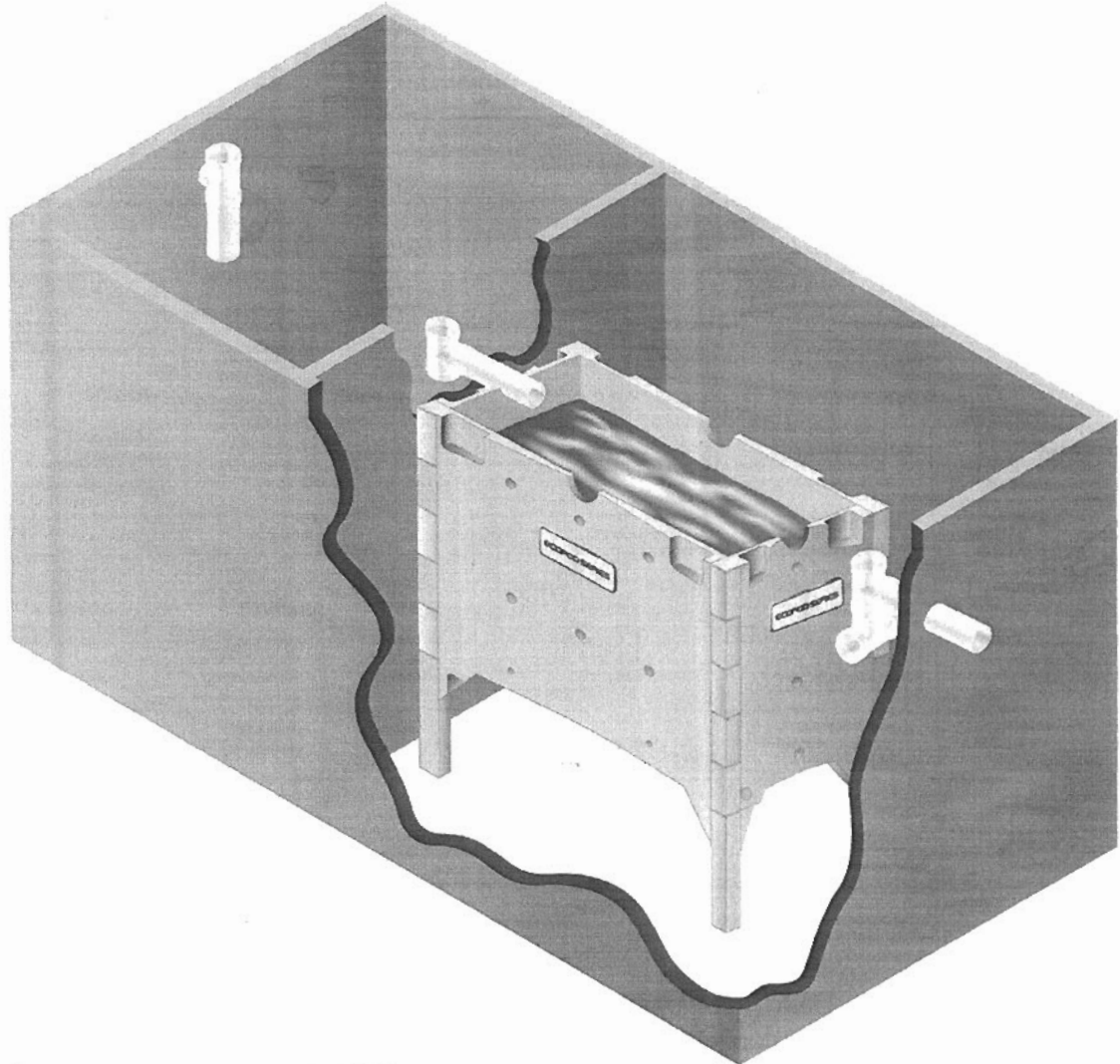
15" RCP W/ MIN. 9" COVER

15" RCP W/ MIN. 9" COVER

15" RCP W/ MIN. 9" COVER

15" RCP W/ MIN. 9" COVER





**DELTA ENVIRONMENTAL®**  
**ECOPOD-N®**  
**NSF/ANSI 40 AND 245 CERTIFIED**  
**RESIDENTIAL WASTEWATER**  
**TREATMENT SYSTEM**



# DELTA ENVIRONMENTAL® NSF/ANSI 40 AND 245 Certified Residential Wastewater Treatment System

## ECOPOD-N® Advanced Wastewater Treatment

ECOPOD-N is the clear choice for an on-site wastewater disposal system where nitrogen reduction is required. Its technology was tested under Standard 40 and 245 of ANSI/NSF International with an average nitrogen reduction of greater than 50% and met and exceeded Class 1 requirements with an average effluent quality of 9 mg/L BOD5 and 8 mg/L TSS.

ECOPOD-N directly contributes to a cleaner, safer environment using the bacteria nature provides. As a result of air being pumped into the system, the bacteria thrive and grow in much greater numbers than would occur naturally. This "overpopulation" of bacteria speeds the process of breaking down the sewage, making it safe for release into the environment.

ECOPOD-N significantly reduces BOD, TSS, fecal coliforms, and nutrients in the wastewater. Nitrification and denitrification occur in a single tank.

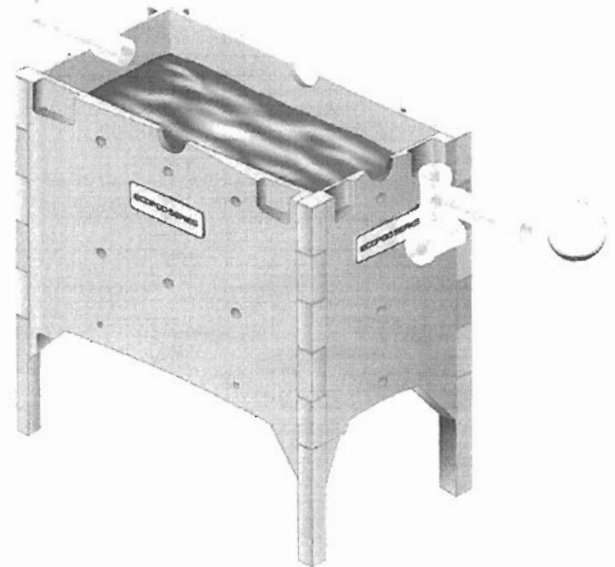
ECOPOD-N series uses a fixed film process which is characteristically stable, reliable and sturdy. Fixed film is a preferred treatment process for on-site wastewater treatment systems.

## ECOPOD-N Available Offering

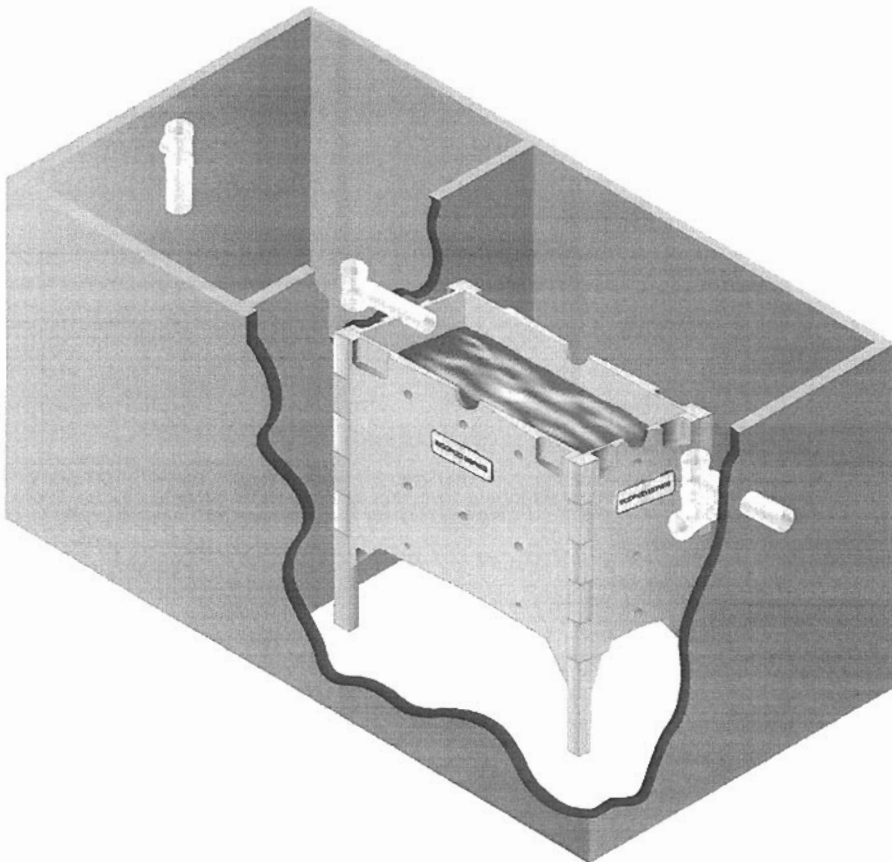
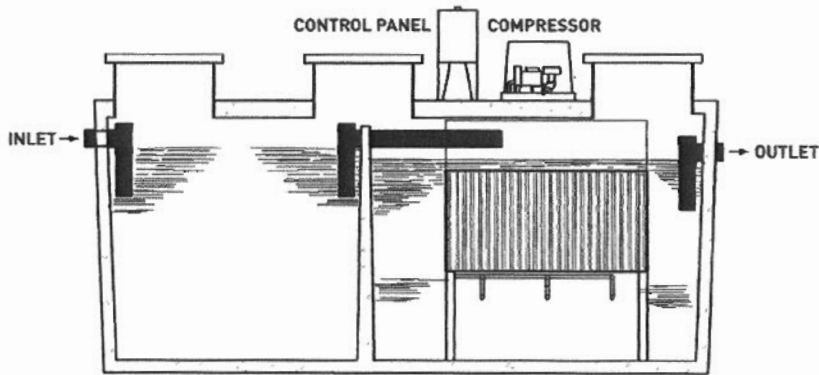
ECOPOD-N Units are manufactured to specifications according to wastewater flow requirements. Units are available in the following sizes:

- Model E50-N treating 500 gallons per day
- Model E60-N treating 600 gallons per day
- Model E75-N treating 750 gallons per day
- Model E100-N treating 1,000 gallons per day
- Model E150-N treating 1,500 gallons per day

## ECOPOD SERIES



# The Future of On-site Wastewater Now Certified to NSF/ANSI Standard 245 for Nitrogen Reduction



## Why Use ECOPOD-N® Advanced Wastewater Treatment?

- Built with technology which meets ANSI/NSF International Standards 40 and 245 - Class 1
- Completely submerged reactor disposes of wastewater quietly, efficiently, and with no odor
- Typical effluent quality of 9 mg/L BOD5 and 8 mg/L TSS
- No inner tank filters, screens or diffusers to service
- Patented non-clogging air delivery system
- Remote mount air compressor
- Low initial capital cost and operation
- Complete on-site system designs
- ECOPOD-N treatment systems are pre-engineered, requiring no special expertise to design, specify, or install
- True attached growth system - no mixed liquor
- Integral clarifier - no external clarifier required

## Manufactured According to Need

Two choices of fabrication are offered, consistent with your preference or regulatory requirements:

- Fiberglass Construction
- Concrete Construction\*
- Round or Rectangular

\*Based on regional availability

Design Components Material Specifications	
Shown is the ECOPOD-N MODEL E50-N	
Treatment Capacity	500 GPD
Electrical Requirement	115/1/60
Aerator Compressor	EN50

### 9. TRIM INSPECTION RISERS:

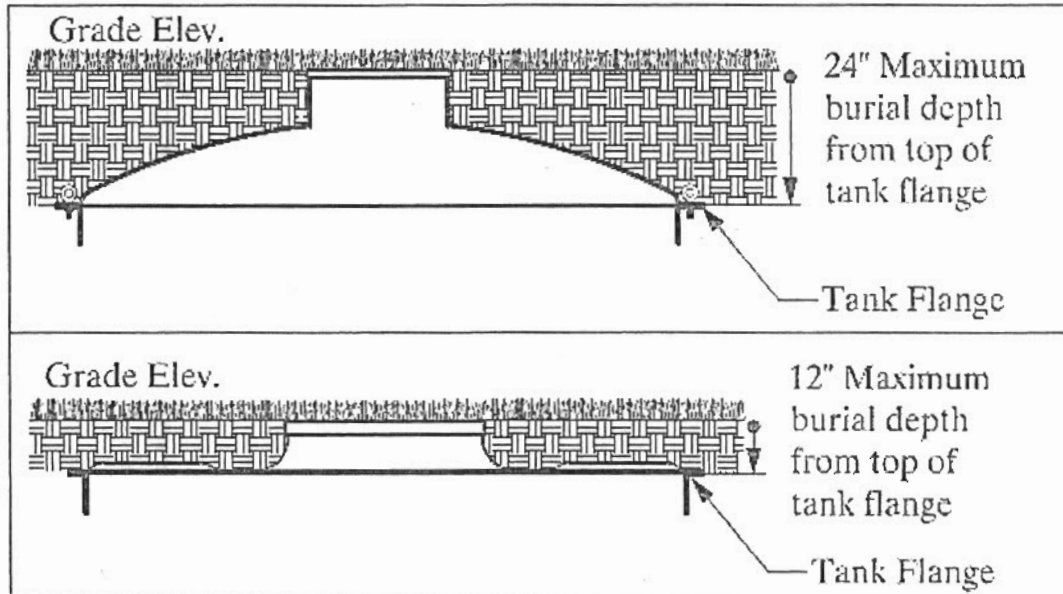
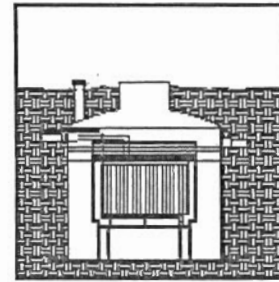
Trim inspection risers to proper length. The 4" aeration inspection riser also serves as a vent for the tank.

**Caution:** The bottom of the 4" aeration riser must be above the water level for both visual inspection and ventilation. Both of the optional 6" and 4" top caps must be above ground level to prevent ground water from entering the risers.

**Caution:** Care must be taken not to push the optional 6" Clarifier Inspection Riser down too far. This may cause damage to the effluent discharge tee assembly and the clarifier.

**Caution:** Maximum burial depth - 2 feet from top of tank flange with dome or 24" manways and 1 foot from top of tank flange with flat lids. For burial depths beyond 2 feet contact the factory.

For further details refer to the installation manual.



DELTA ENVIRONMENTAL PRODUCTS  
P. O. BOX 969 DENHAM SPRINGS, LA 70727

## INSTALLATION PROCEDURE

DWN BY:  
C.RACHAL

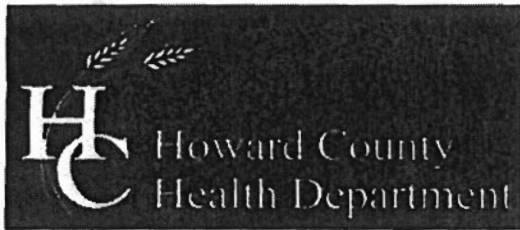
DATE:  
5/18/09

SCALE:  
N.T.S.

DWG. NO.:  
DEP034



Delta Environmental  
Products™



**Bureau of Environmental Health**

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

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)

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 \_\_\_\_ day of \_\_\_\_\_, among Ray & Shirey Mathew, 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 6210 Heather Glen Way, Marksville, MD in the \_\_\_\_ 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 14790 Folio 1030.7

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.

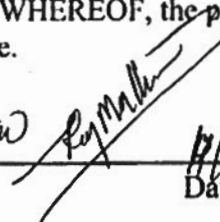
G. This agreement may be voided at any time at the discretion of the County.

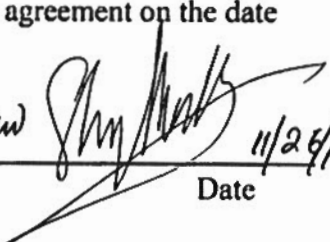
H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

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.

ROY MATHEW  11/26/13  
Owner Date

SHINY V MATHEW  11/26/13  
Owner Date

Howard County Health Department



## e3 Environmental, LLC.

2872 Deer Valley Rd

Milford, DE 19963

P: 1-302-725-0788 F: 1-302-258-0706

[www.e3onsite.com](http://www.e3onsite.com)

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December 4<sup>th</sup> 2013

Fogles Septic  
580 Obrecht Road  
Sykesville, MD 21784

Re: ECOPOD-N Inspection and Startup  
6210 Heather Glen Rd, Clarksville MD 21029

Fogles Septic

As the representative of Delta Environmental Products this letter serves as verification that the ECOPOD-N model E75 that was installed at the above referenced property was has been inspected and started up in substantial compliance with the manufacturers recommendations.

If you have any questions please contact me at 1-703-309-6916 or via email at [ericv@e3onsite.com](mailto:ericv@e3onsite.com)

Respectfully  
*Eric W. Valentine*  
Eric W. Valentine  
General Manager

*Received Dec. 12/2013  
veb*

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: Mathew  
Reference/Control #: 94

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 : 2386

12/05/2013 14:24 CC13-VB  
#2264884 /497/109

Thank you for visiting us today~