

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: 10-22-14 **ONSITE SEWAGE DISPOSAL SYSTEM** P 555283-A  
 INSTALLATION **PERMIT**  
 APPROVAL DATE: 5-29-13 *Kmw* **CONSTRUCTION** A \_\_\_\_\_

PROPERTY ADDRESS: 715 Woodbine Crossing  
 SUBDIVISION: Woodbine Crossing LOT: 2 TAX ID: \_\_\_\_\_  
 CONTRACTOR: WTC Contractors EMAIL: wtccocon@aol.com  
 CONTRACTOR ADDRESS: 3033 Salem Bottom Road PHONE: 410-458-7024  
 PROPERTY OWNER: LDG Inc. EMAIL: info@leedg.com  
 OWNER ADDRESS: 8601 Georgia Avenue, Silver Spring, MD 20910 PHONE: 301-585-7000

BAT UNIT MODEL: Ecopod BAT UNIT SIZE: \_\_\_\_\_  
 PUMP CHAMBER CAPACITY (GALLONS): \_\_\_\_\_ PUMP SIZE: \_\_\_\_\_  
 NUMBER OF BEDROOMS: \_\_\_\_\_ HOUSE SQ. FT. \_\_\_\_\_ APPLICATION RATE: \_\_\_\_\_  
 DISTRIBUTION SYSTEM: GRAVITY FED  LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>SEE BAT PLAN 260'</u>	INLET DEPTH: <u>SEE BAT PLAN 4'</u>
	TRENCH WIDTH: <u>SEE BAT PLAN 11" ± 2'</u>	MAXIMUM BOTTOM DEPTH: <u>SEE BAT PLAN 7.5'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>SEE BAT PLAN</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:	Set BAT unit per plan. <u>4 x 65'</u>	

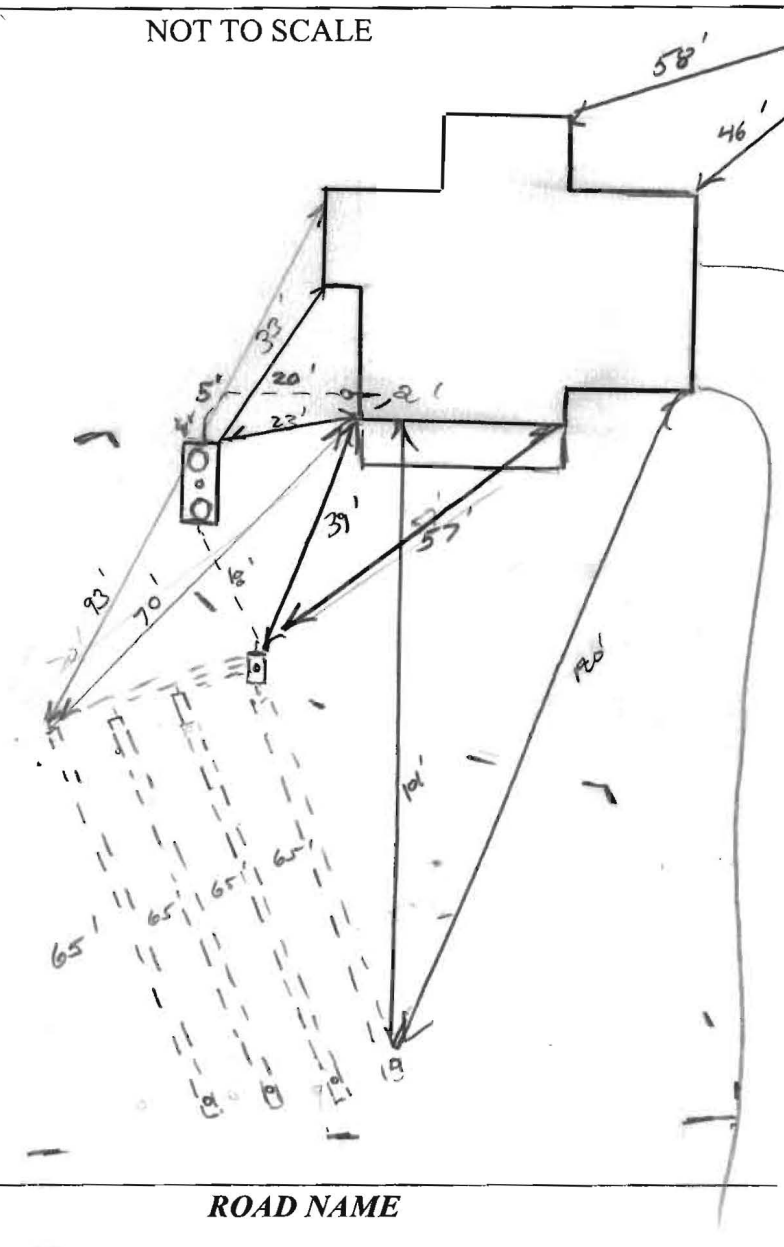
ISSUED BY: Jeff Williams ISSUE DATE: 10-22-14 EXPIRATION DATE: 10-22-15

- 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 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

**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-95-1065

NOT TO SCALE



**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
<u>2</u>	<u>4</u>	<u>7.5</u>
NUMBER OF TRENCHES		<u>4</u>
TOTAL LENGTH		<u>260</u>
ABSORPTION AREA _____		
DISTRIBUTION BOX LEVEL <u>Levelok</u>		
DISTRIBUTION BOX BAFFLE <u>Yes</u>		
DISTRIBUTION BOX PORT <u>Yes</u>		

**SEPTIC TANK DATA**

SEPTIC TANK I LEVEL	<u>Yes</u>
MANUFACTURER	<u>Babylon</u>
CAPACITY	<u>E60N</u> GAL
SEAM LOC	<u>Top</u>
TANK LID DEPTH	<u>3'</u>
BAFFLES	<u>Yes</u>
BAFFLE FILTER	<u>N/A</u>
MANHOLE LOC	<u>Front/Rear</u>
6" PORT LOC	<u>center</u>
WATERTIGHT TEST	<u>-</u>
SLOTTED	<u>Yes</u>
DATE ON LID	<u>N/A</u>
<b>PUMP/SEPTIC TANK LEVEL</b>	<u>For Future</u>
MANUFACTURER	_____
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____
SLOTTED	_____
DATE ON LID	_____

ROAD NAME

**PRE-CONSTRUCTION:**

11/7/14 Elevations shot in field. Will not make gravity w/ 4' inlet invert to upper system. shot elevation @ start of second system. lower elevation. should be ok. Need to stake BAT location, re-shoot all trenches for second and third sep. systems (KW) SC

11/13/14 Trenches laid out BAT loc staked. OK to proceed w/ changes indicated. KW/SC

**INSTALLATION:**

11/24/14 Inspections made by HD Tank set. working on trenches. 12/3/14 work completed on trenches. need BAT start-up for final approval (BB)

5/29/15 site visit for BAT start up. Pump/Blower working. system complete

FINAL INSPECTOR JK Wolff

DATE OF APPROVAL 5/29/15

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>12/1/14</u>	Serial Number: <u>E60N-02214CA</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:**

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

**SYSTEM OWNER:**

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

**INSTALLATION LOCATION:**

715 Woodbine Crossing  
Mt. Airy, MD 21771  
 \_\_\_\_\_  
 \_\_\_\_\_

**DISTRIBUTOR:**

Babylon Vault Company Inc.  
925 Wakefield Valley Rd.  
New Windsor, MD 21776  
 \_\_\_\_\_  
 \_\_\_\_\_

**INSTALLER:**

WTC Contractors  
3033 Salem Bottom Rd.  
Westminster, MD 21157  
 \_\_\_\_\_  
 \_\_\_\_\_

**SERVICE COMPANY:**

Babylon Vault Co. Inc.  
 \_\_\_\_\_  
 Service Operators License Number: \_\_\_\_\_

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

Witness:

# e3 Environmental LLC

302 725-0706 www.e3onsite.com

## ECOPOD-N Completion Statement

### Installation Information

Owners Name	<u>Catonsville Homes LLC</u>	# of Bedrooms / GPD	<u>6/00</u>
Street	<u>715 Woodbine Crossing</u>	Repair	<input type="checkbox"/>
City	<u>Mt. Airy</u>	New Construction	<input checked="" type="checkbox"/>
State	<u>MD</u>		
Zip	<u>21771</u>		

### Installation Company

Company	<u>WTC Contractors</u>	Installed Date	<u>12/1/14</u>
Certified Installer		Startup Date	<u>5/27/15</u>
Street	<u>3033 Salem Bottom Rd.</u>		
City	<u>Westminster</u>		
State	<u>MD</u>		
Zip	<u>21157</u>		

### ECOPOD-N

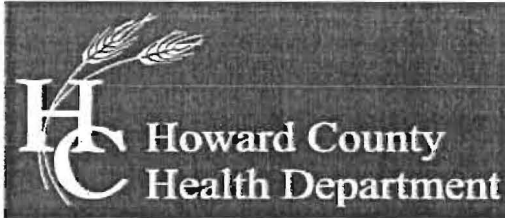
Model #	Serial #
E50 <input type="checkbox"/>	
E60 <input checked="" type="checkbox"/>	<u>E60-N 02214CA</u>
E75 <input type="checkbox"/>	
E100 <input type="checkbox"/>	
E150 <input type="checkbox"/>	

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

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 Koentz  
Printed Name Steven R Koentz

Date 5/27/15



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  
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 28 day of May, 2014, among LDG, Inc., 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 715 Woodbine Crossing, Woodbine, MD 21797 (Lot 2), in the 04 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 1988 Folio 258.

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.

\_\_\_\_\_  
Owner

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Owner

6/9/14  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Howard County Health Department

**Williams, Jeffrey**

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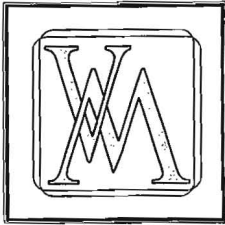
**From:** Williams, Jeffrey  
**Sent:** Thursday, September 18, 2014 11:10 AM  
**To:** 'ron@vanmar.com'  
**Subject:** woodbine crossing lot 2

I've approved the revised BAT plan for WC lot 2. I was wondering why the tank was moved from the original proposed location. The only thing I don't like about the new spot is that in order to maintain fall, you are not using the upper portion of the reserve (wasting some space). I measured and saw that a 3<sup>rd</sup> system can fit below where you show the 2<sup>nd</sup>. For future reference, our priority is to use all available area the best we can. If we are not doing that, we need to see how 3 systems can fit in the area being used. I would prefer to see if it's possible in the field during installation to actually get the trenches a little higher up the hill so we don't waste space on this project. Thanks

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

**CONFIDENTIALITY NOTICE**

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**VANMAR  
ASSOCIATES, INC.**

**Engineers • Surveyors • Planners**

310 South Main Street, P.O. Box 328, Mount Airy, Maryland 21771

(301) 829-2890  
(301) 695-0600

(301) 831-5015

(410) 549-2751  
Fax (301) 831-5603

August 22, 2014

Howard County Health Department  
Bureau of Environmental Health  
718 Columbia Gateway Drive  
Columbia, MD 21046-2147

RE: Lot 2 Site Plan for BAT Installation  
Woodbine Crossing Subdivision

The responses to the check list for the Lot 2 Site Plan for BAT Installation are as follows:

---

**1. Title box with the following title, Site Plan for BAT Installation. The title box shall also include the street address, tax identification number, and subdivision name or property owner names(s).**

**Response 1:** The above information is included in the title box. Per HoCo guidelines, the Site Plan for BAT Installation may also include "PLOT PLAN" to allow the plan to also be used for a building permit.

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**2. The name, address, and telephone number of the owner, developer and the person preparing the plan.**

**Response 2:** The above information is provided on the plan.

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**3. The date the plan was drawn, the plan scale, and a scaled vicinity map. Scales larger than 1:40 require scale approval prior to plan submittal.**

**Response 3:** The above information is provided with a plan scale of 1' = 30'.

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**4. All property lines and dimensions.**

**Response 4:** All property lines and dimensions are shown.

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**5. Show all existing and proposed structures including SWM features.**

**Response 5:** All existing and proposed structures as shown. There are no individual SWM features on the lot.

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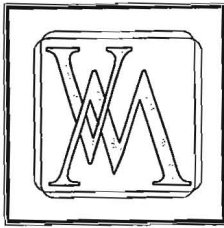
**6. All percolation test holes (pass or fail with corresponding test number or letter) and the approved sewage disposal area (SDA).**

**Response 6:** The above information is contained on the plan.

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**7. Field run topography at two-foot intervals. One-foot intervals are required for mound systems and**

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*systems with pipe depth less than two feet.*

---

**Response 7:** Two-foot topography provided.

---

**8. Illustrate the three (3) proposed well sites or 1,500 SF well box with elliptical radius of 100 feet around each of the three (3) wells or the well box.**

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**Response 8:** The existing well and two reserve well sites locations are shown.

---

**9. Illustrate streams, ponds, floodplains, 25% and greater slopes, and any other pertinent land features.**

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**Response 9:** Lot 2 does not have any of the above features.

---

**10. Illustrate the locations of all BAT components on the Site Plan.**

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**Response 10:** All BAT components are shown on the Site Plan.

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**11. Include a cross section and details of all BAT components.**

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**Response 11:** Cross section and details of BAT components are shown.

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**12. Include a profile drawing with all invert elevations necessary for installation.**

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**Response 12:** Profile drawing is provided.

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**13. Show the location of the initial absorption system and a replacement(s) with the perforated pipe elevations.**

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**Response 13:** Location of the initial absorption system and replacement is shown. Trench elevations shown in chart form.

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**14. The designing Professional Engineer or other qualified designer must sign the plan.**

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**Response 14:** Designing Professional Engineer has signed the plan.

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**15. Low pressure dosed systems or other pumped systems must include pump station details including:**

- a. Total dynamic head calculations
- b. Pump Curve
- c. Pump on, pump off, and alarm elevations.

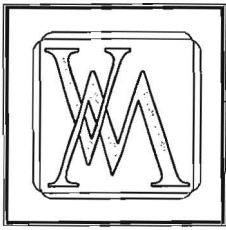
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**Response 15:** A low pressure dosed system is not provided for Lot 2.

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**Required BAT Site Plan Notes:**

1. Any change to the locations or depths to any components ...
  2. The maximum depth of the BAT per the manufacturer's specification ...
  3. The blower may not be located more than ....
  4. The BAT system shall be maintained and operated for the life of the system.
-



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- 
5. *The BAT system shall be operated by and maintained by a certified service provider.*
  6. *Within one month of installation, a person installing the BAT system shall ...*
  7. *Electrical work for the BAT installation must be performed by a licensed electrician.*
  8. *An Agreement and Easement must be completed and signed by all applicable ...*
  9. *The Health Department requires documentation for the start-up certification ...*
- 

**Response:** Standard notes are provided.

---

Thank you,  
VANMAR ASSOCIATES

Ronald E. Thompson, P.E.

## Williams, Jeffrey

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**From:** Pam Walter [PWalter@catonsvillehomes.com]  
**Sent:** Tuesday, August 26, 2014 3:57 PM  
**To:** Williams, Jeffrey; Rob Scranton  
**Cc:** Ron Thompson (Ron@vanmar.com); Chip Bean; Frank Potepan  
**Subject:** RE: Woodbine Crossing Lot 2-Building Permit  
**Attachments:** WC2 - Final cds 7.22.14.pdf

Please see the attached.

Thanks!

Pam Walter

Catonsville Homes, LLC  
11175 Stratfield Court  
Marriottsville, MD 21104  
410-442-2211 x 202  
410-442-2215 Fax  
[pwalter@catonsvillehomes.com](mailto:pwalter@catonsvillehomes.com)

---

**From:** Williams, Jeffrey [mailto:jewilliams@howardcountymd.gov]  
**Sent:** Tuesday, August 26, 2014 3:48 PM  
**To:** Rob Scranton  
**Cc:** Ron Thompson (Ron@vanmar.com); Chip Bean; Pam Walter; Frank Potepan  
**Subject:** RE: Woodbine Crossing Lot 2-Building Permit

I have a BAT plan in review. I'm looking at this while Dana is on vacation. I know she requested floorplans in her last response, but I don't see a copy in the file. You may have emailed them to her, but if you can email me a copy of floorplans I will need to see them in order to approve the BP once the BAT plan is approved. Thanks  
Jeff

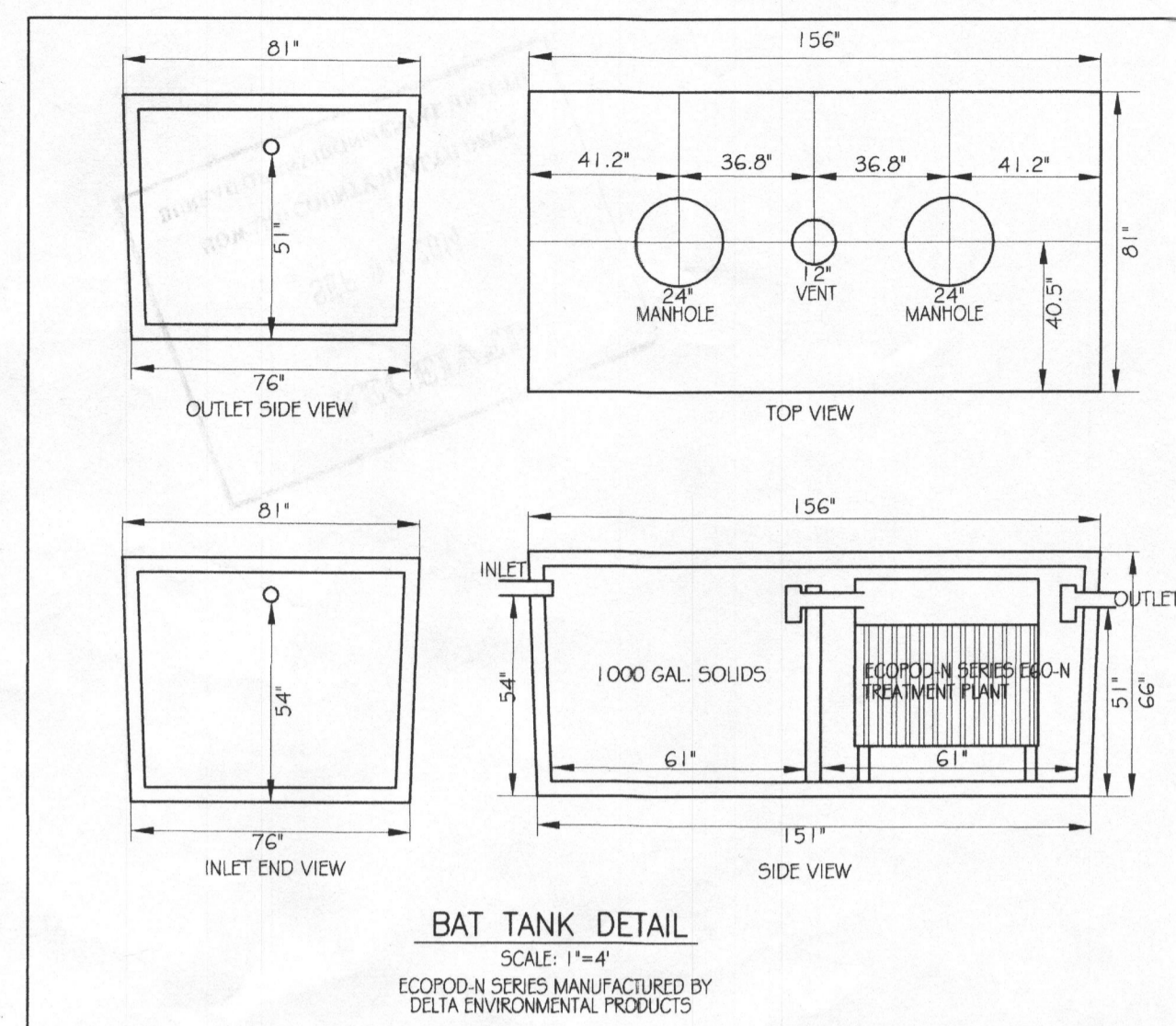
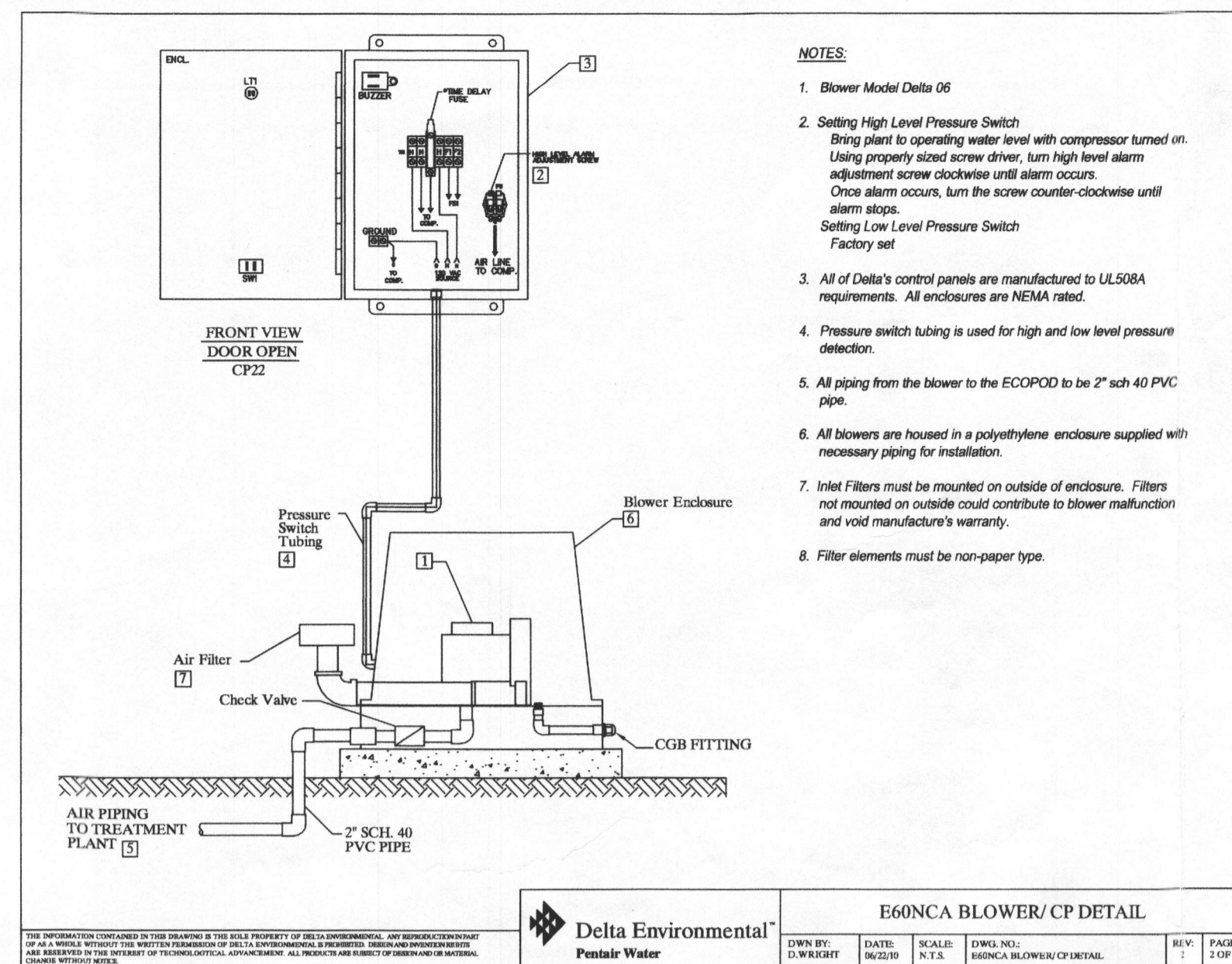
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**From:** Rob Scranton [mailto:rscranton@catonsvillehomes.com]  
**Sent:** Tuesday, August 26, 2014 10:53 AM  
**To:** Williams, Jeffrey  
**Cc:** Ron Thompson (Ron@vanmar.com); Chip Bean; Pam Walter; Frank Potepan  
**Subject:** Woodbine Crossing Lot 2-Building Permit

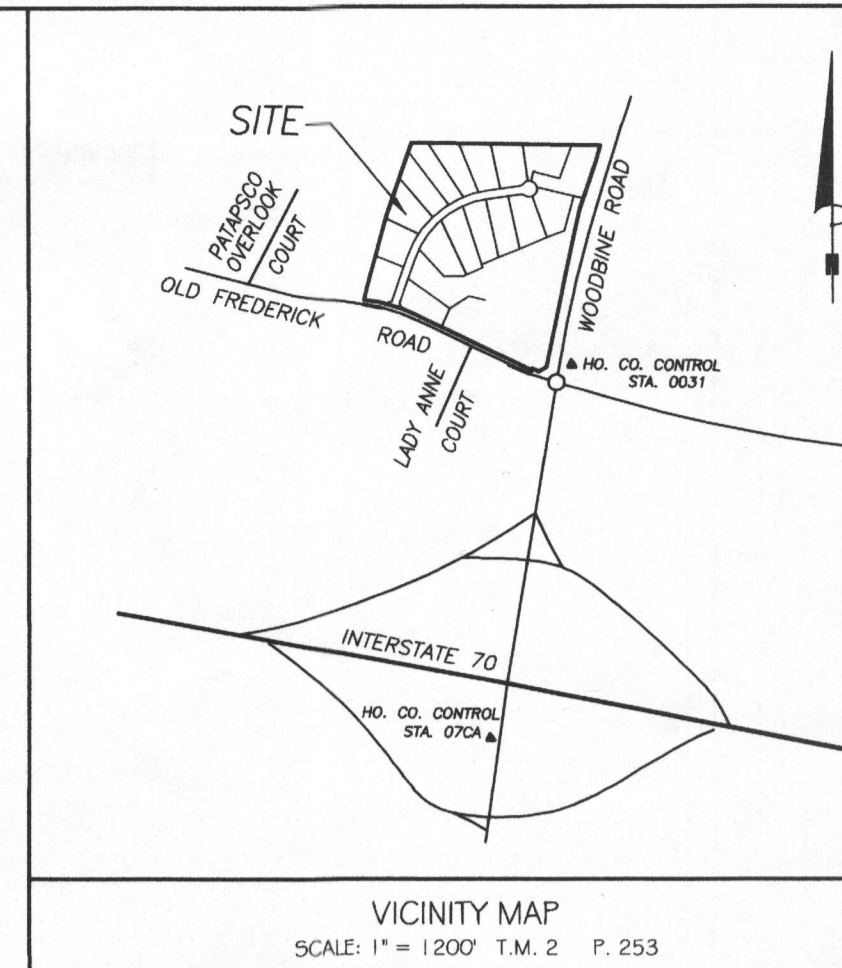
Jeff,

I would like to know the status of our building permit for Woodbine Crossing Lot 2.  
We would like to get started on this home!  
Thank you in advance for your assistance.

Rob Scranton  
Catonsville Homes LLC  
11175 Stratfield Court  
Marriottsville, MD 21104  
410.442.2211 x206



- 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 SITE PLAN MAY BE REQUIRED.
  - MAXIMUM COVER OVER THE BAT PER MANUFACTURER'S SPECIFICATION IS 3 FEET.
  - THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON MANUFACTURER'S SPECIFICATIONS.
  - THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
  - THE BAT SHALL BE OPERATED 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 MADE IN A MANNER ACCEPTABLE TO ME, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND 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 INSTALLATION.

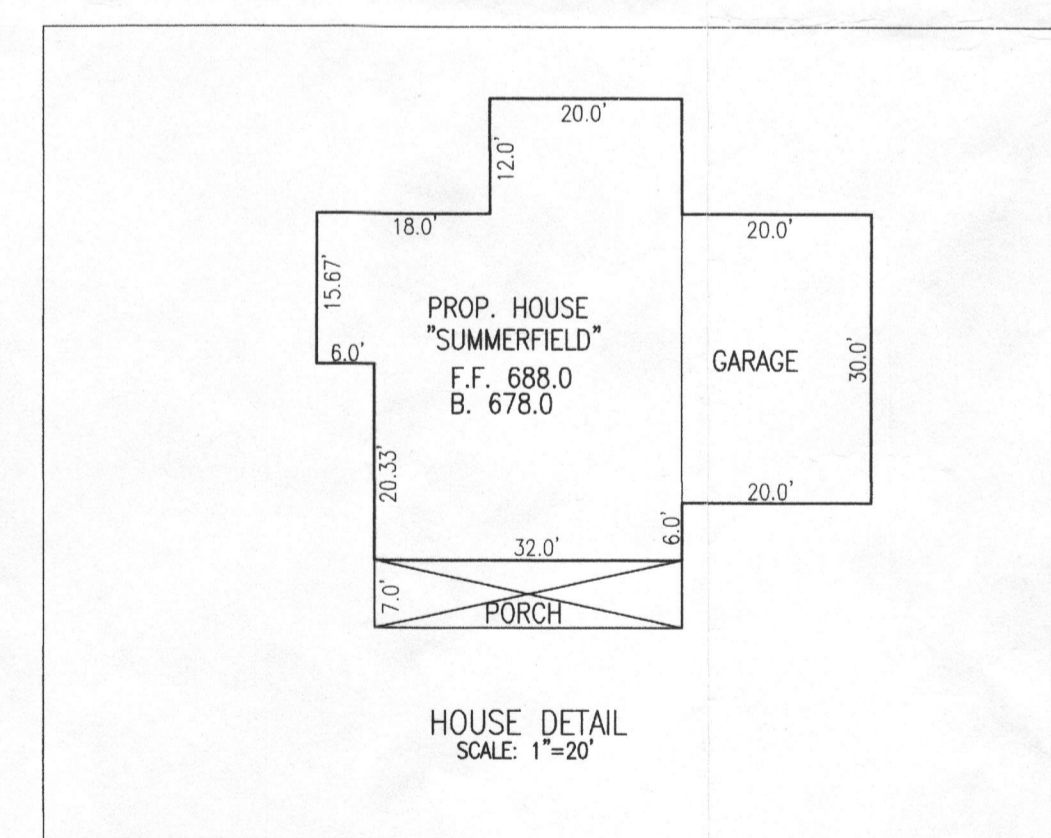
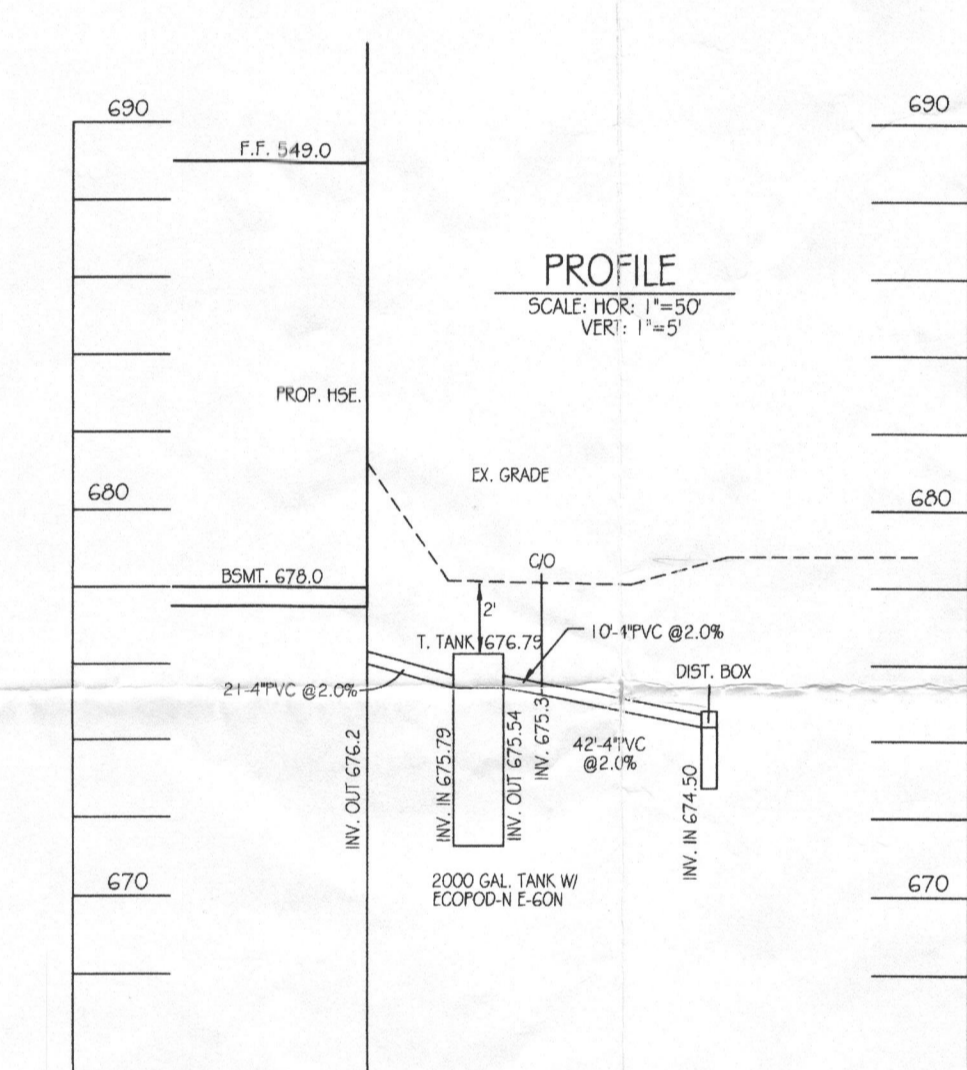
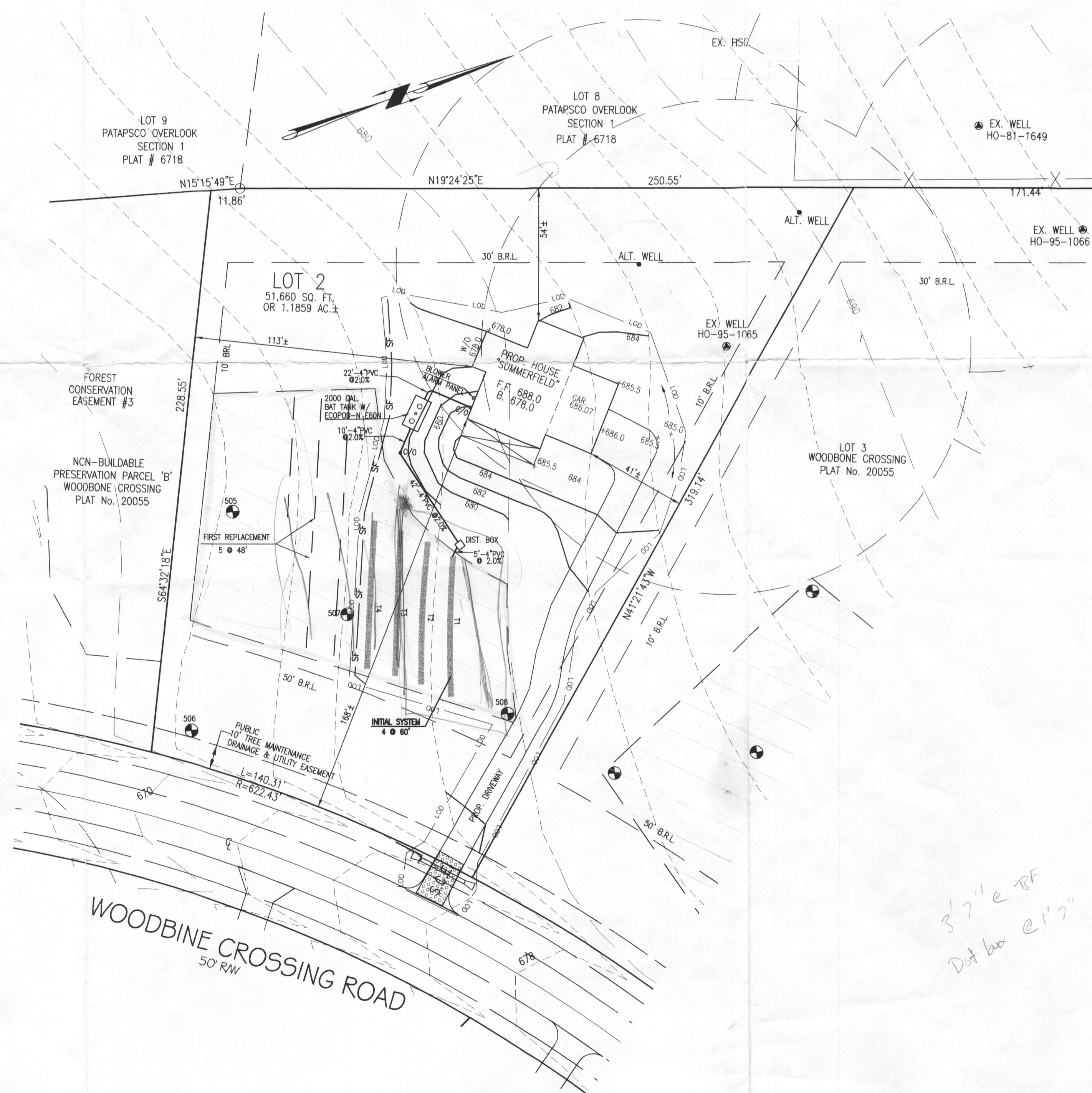
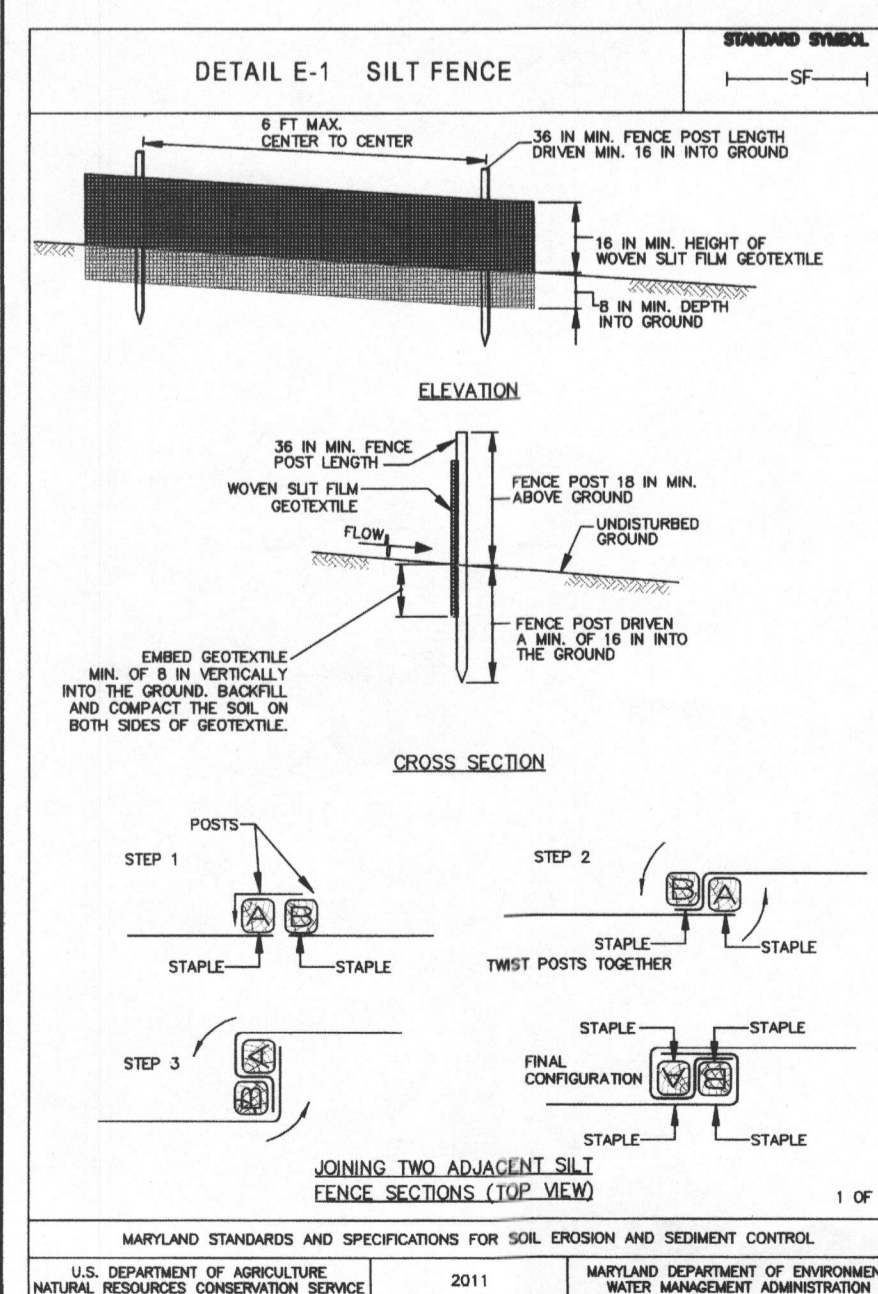
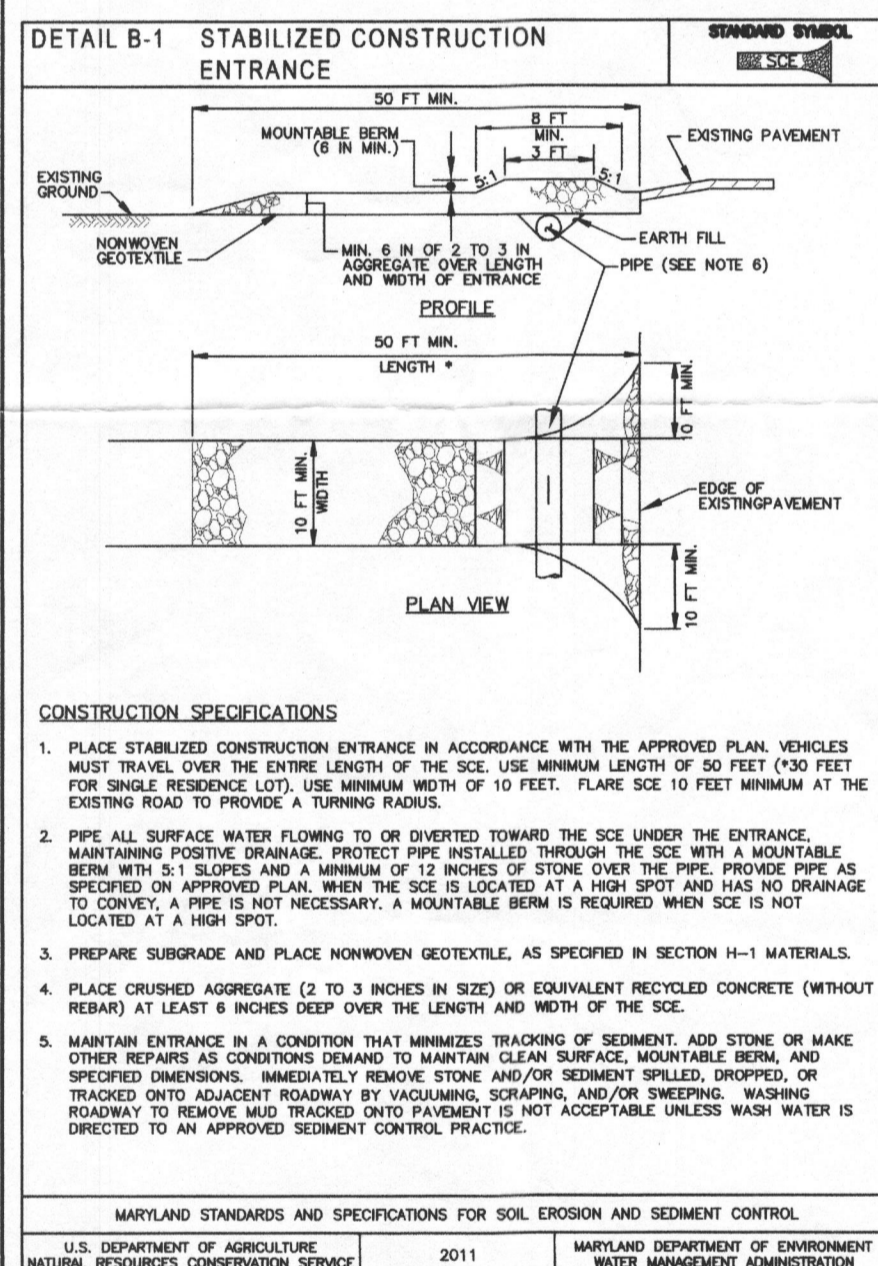


**GENERAL NOTES:**

- TOPOGRAPHY & PLANIMETRIC FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY, SUPPLEMENTED WITH FIELD LOCATIONS BY VANMAR ASSOCIATES, INC. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVD83.
- THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
- ZONING DISTRICT: RC-DEO
- LIMIT OF DISTURBANCE (LOD) = 10,349 SQ.FT.
- THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS LOT.
- STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY EXISTING WOODBINE CROSSING STORM WATER MANAGEMENT FACILITIES.

**SEPTIC SYSTEM TRENCH DESIGN:**

- NUMBER OF BEDROOMS = 4  
APPLICATION RATE = 0.6 GPD / sq.ft.  
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1000 sq.ft. / 3.0 ft. WIDE TRENCH = 334 LF TRENCH  
334 LF TRENCH X 0.71 REDUCTION CREDIT = 237 LF TRENCH
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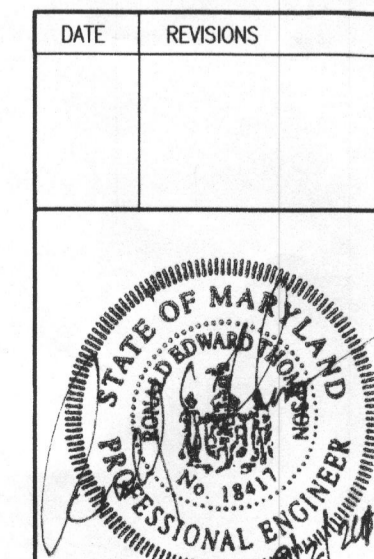


Approved Septic System Plan  
Howard County Health Department  
Signature: [Signature] Date: 9/16/14

**OWNER:**  
LDG INC.  
LEE PLAZA, SUITE 200  
8601 GEORGIA AVENUE  
SILVER SPRING, MD. 20910  
301-585-7000

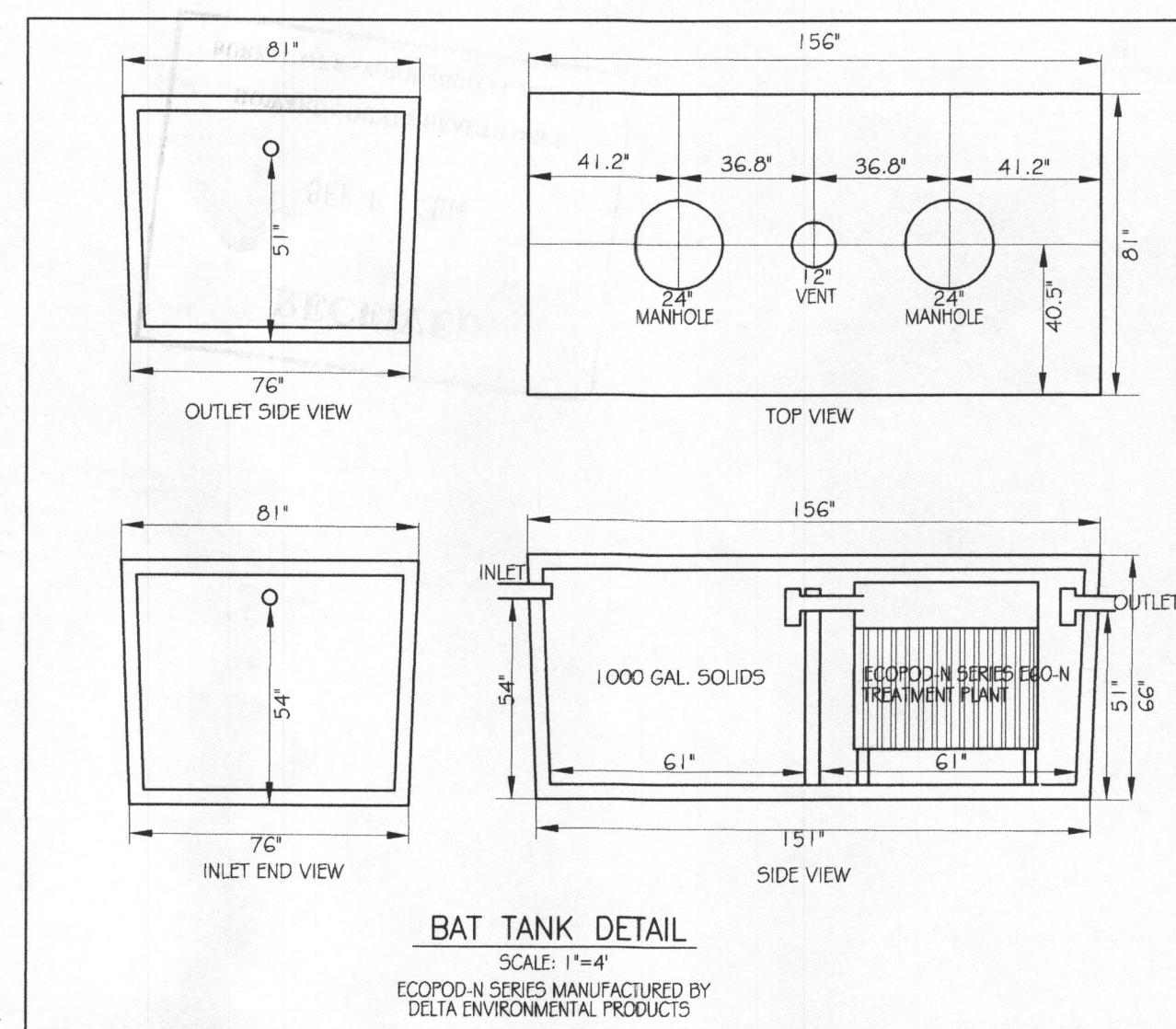
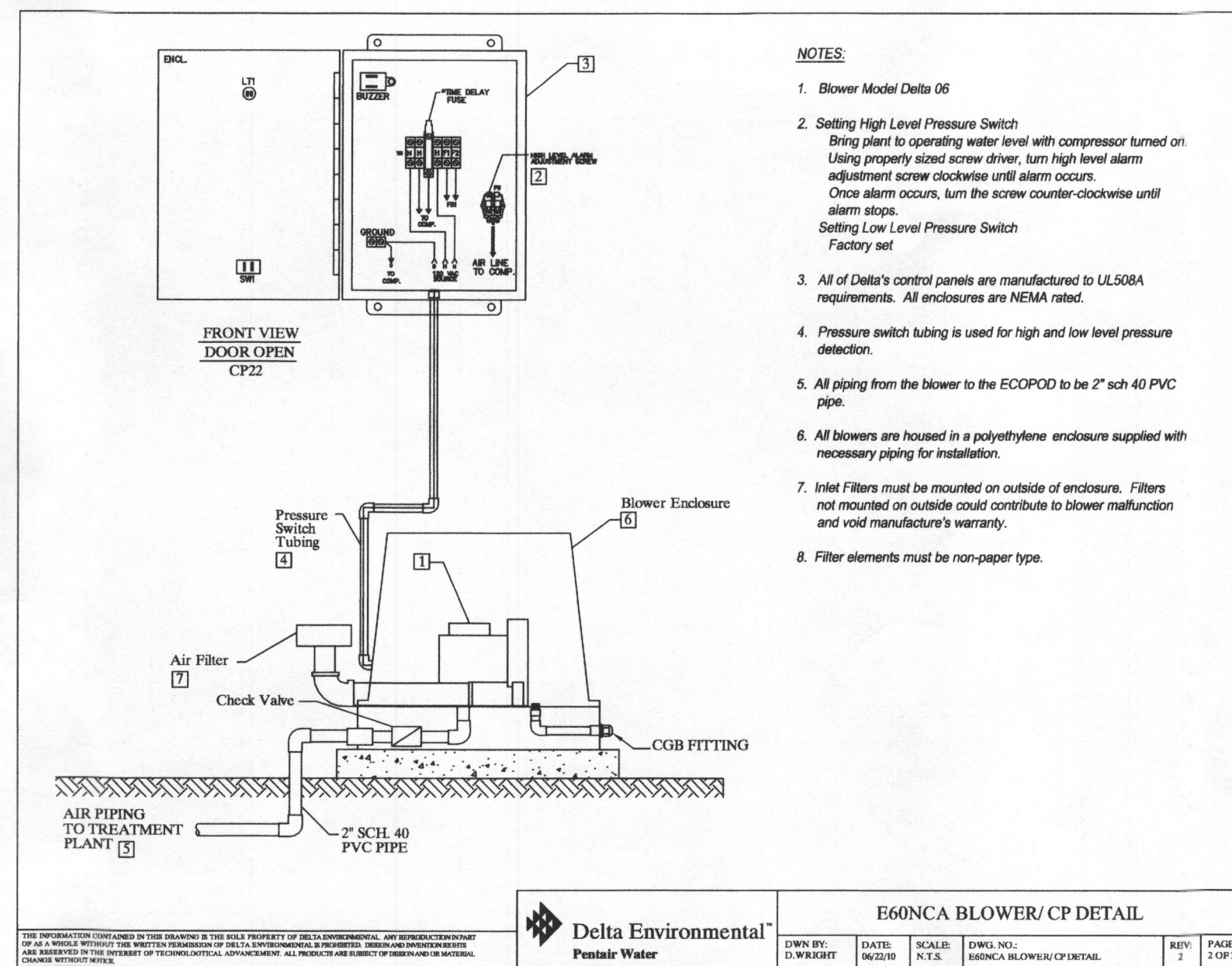
**DEVELOPER:**  
CATONVILLE HOMES  
1175 STRATFIELD CT  
MARRIOTTVILLE, MD. 21104  
410-442-2211

**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. 18412, Expiration Date: 9-18-15.

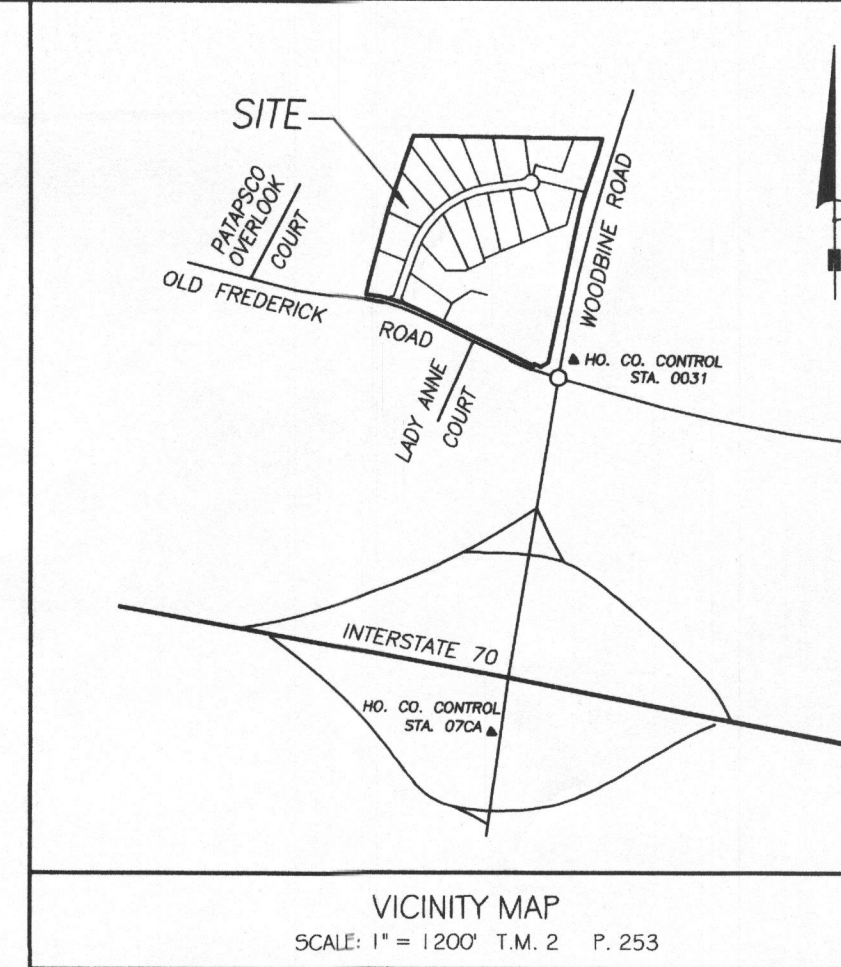


**VANMAR ASSOCIATES, INC.**  
Engineers Surveyors Planners  
310 South Main Street Mount Airy, Maryland 21771  
(301) 829-2890 (301) 831-5015 (410) 549-2751  
Fax (301) 831-5603 ©Copyright, Latest Date Shown

**PLOT PLAN**  
SITE PLAN FOR BAT TECHNOLOGY  
LOT 2  
**WOODBINE CROSSING**  
PLAT No. 20055  
715 WOODBINE CROSSING ROAD  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' JUNE, 2014



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  2. MAXIMUM COVER OVER THE BAT PER MANUFACTURER'S SPECIFICATION IS 3 FEET.
  3. THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON MANUFACTURER'S SPECIFICATIONS.
  4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
  5. THE BAT SHALL BE OPERATED AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
  6. 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 TYPE OF BAT INSTALLED.
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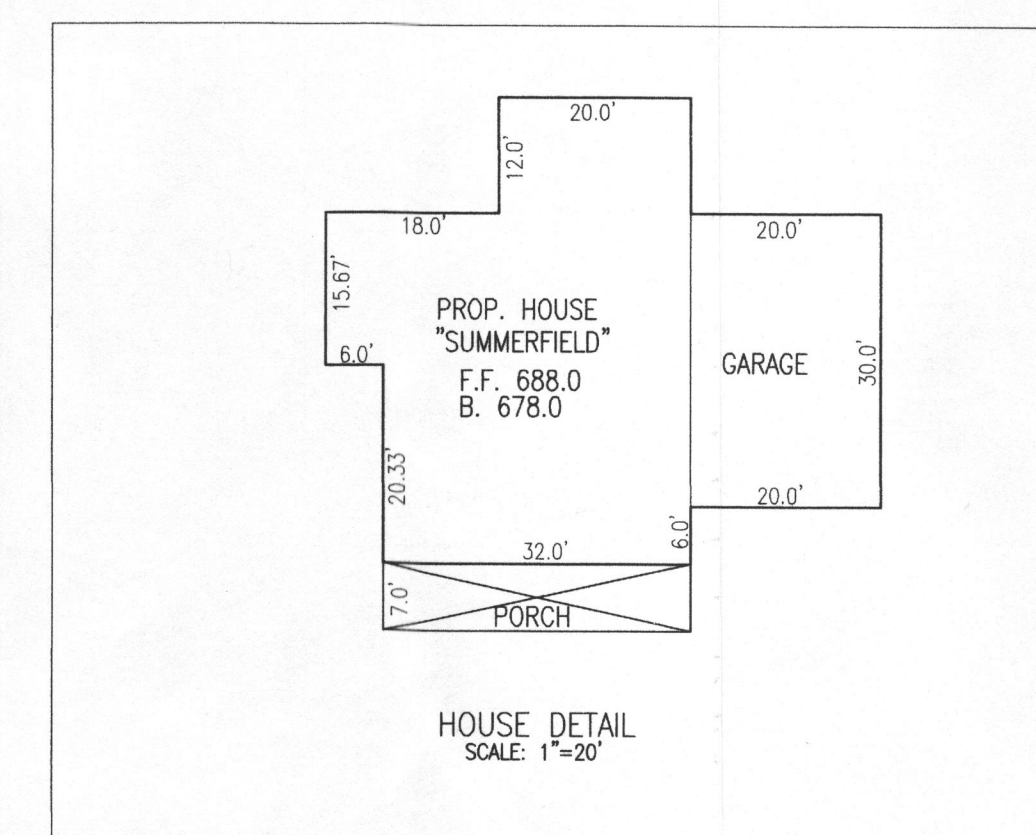
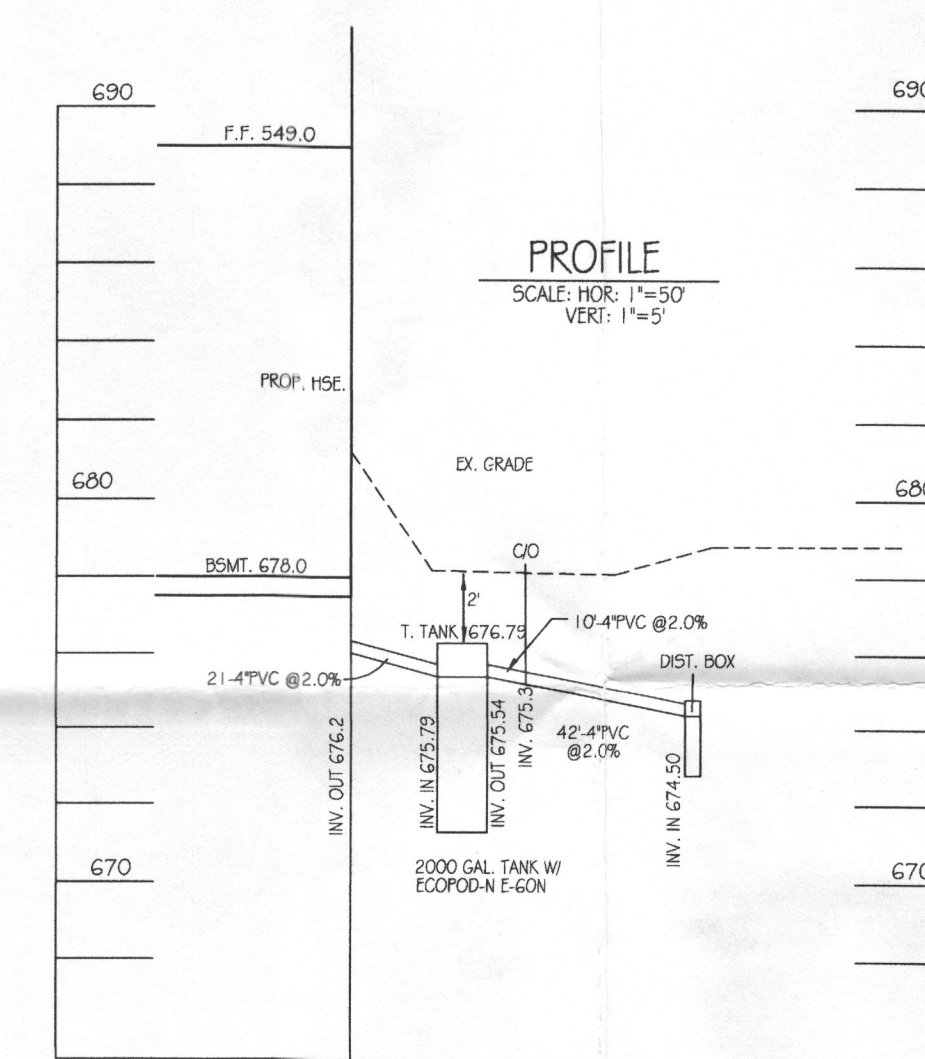


**GENERAL NOTES:**

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2. THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
3. ZONING DISTRICT: RC-DEO
4. LIMIT OF DISTURBANCE (LOD) = 18,349 SQ.FT.
5. THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS LOT.
6. STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY EXISTING WOODBINE CROSSING STORM WATER MANAGEMENT FACILITIES.

**SEPTIC SYSTEM TRENCH DESIGN:**

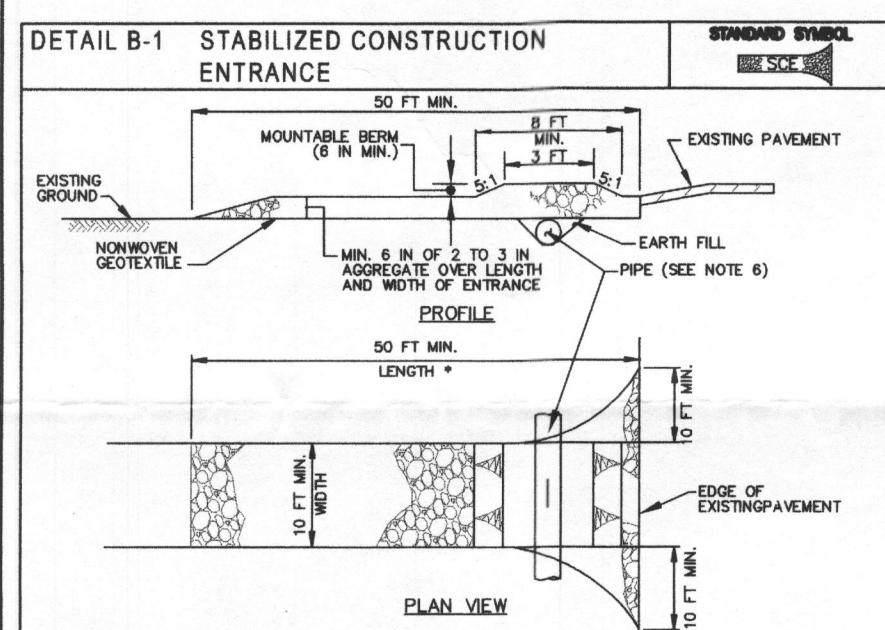
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Approved Septic System Plan  
Howard County Health Department  
Signature: [Signature] 9/16/14 Date

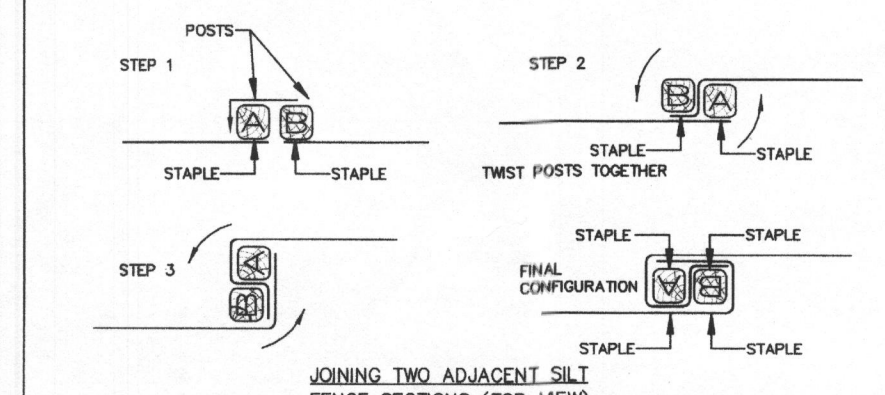
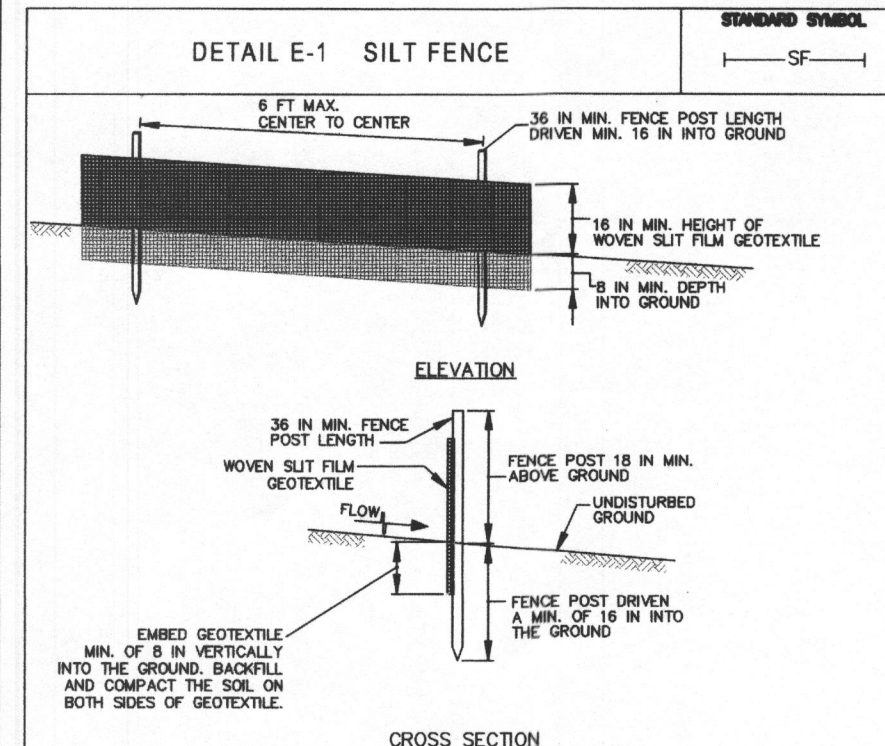
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DEVELOPER:  
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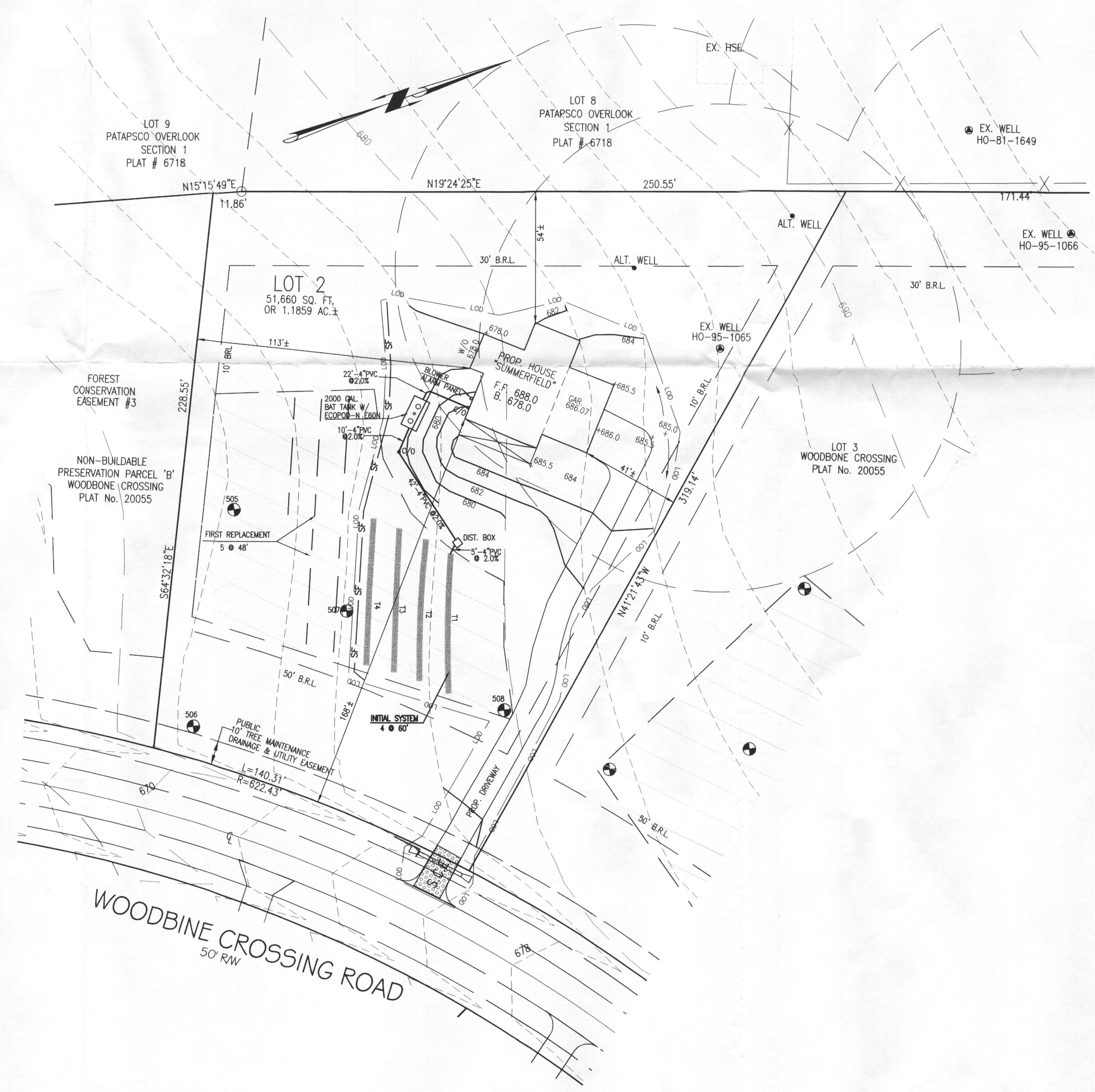


- CONSTRUCTION SPECIFICATIONS**
1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SOLE. USE MINIMUM LENGTH OF 30 FEET (150 FEET FOR SINGLE RESIDENCE LOTS). USE MINIMUM WIDTH OF 10 FEET. FLARE SIZE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
  2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SITE UNDER THE ENTRANCE. MAINTAIN POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SITE WITH A MOUNTABLE BEAM WITH 8" SLIPS AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SIZE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CORNER, A PIPE IS NOT NECESSARY. A MOUNTABLE BEAM IS REQUIRED WHEN SIZE IS NOT LOCATED AT A HIGH SPOT.
  3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
  4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SIZE.
  5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTABLE BEAMS AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPOILED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

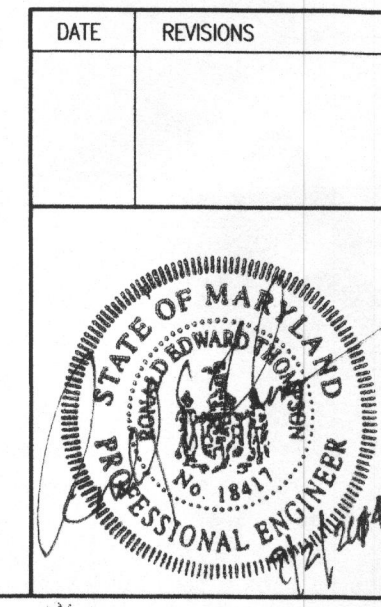
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL  
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



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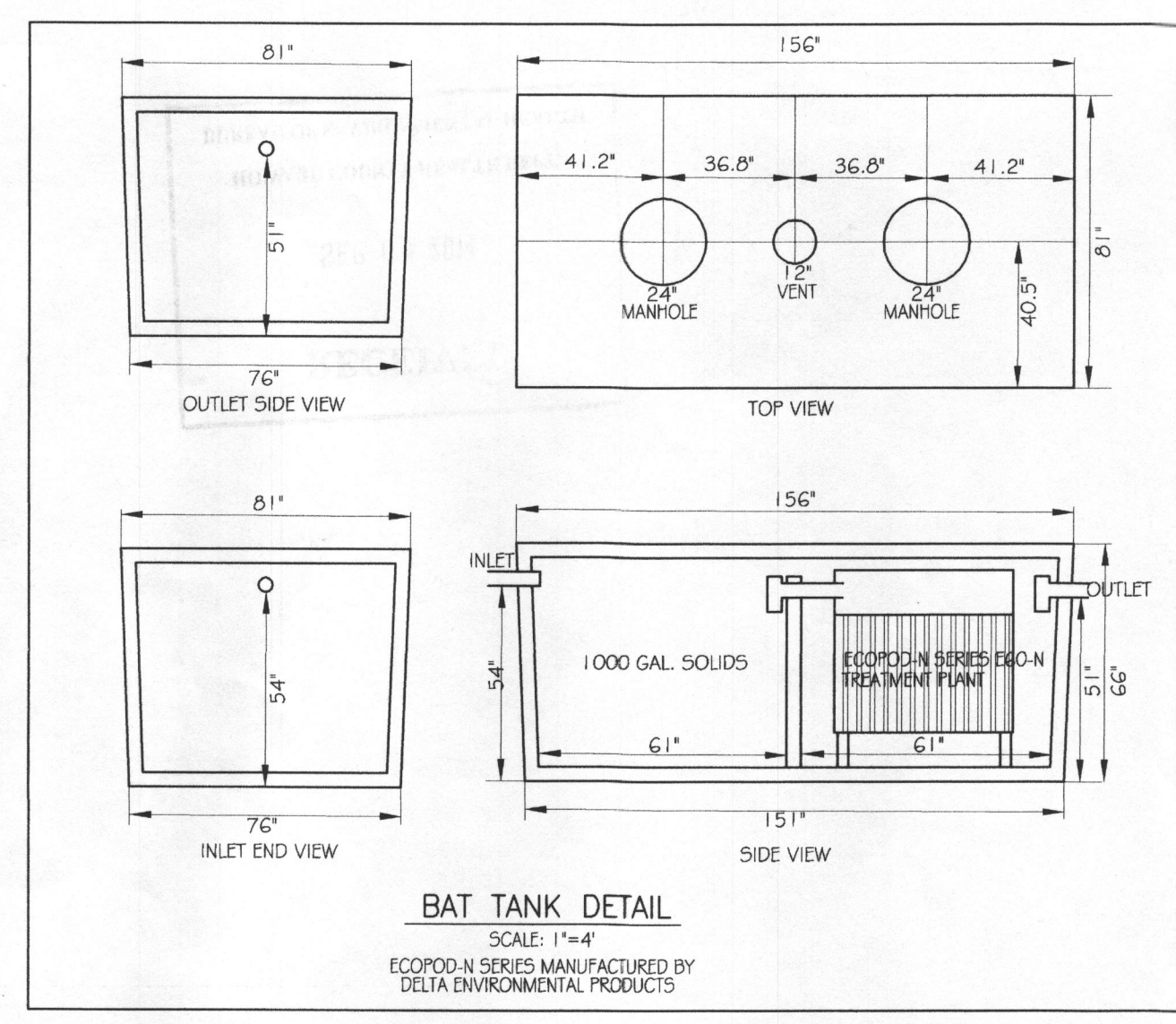
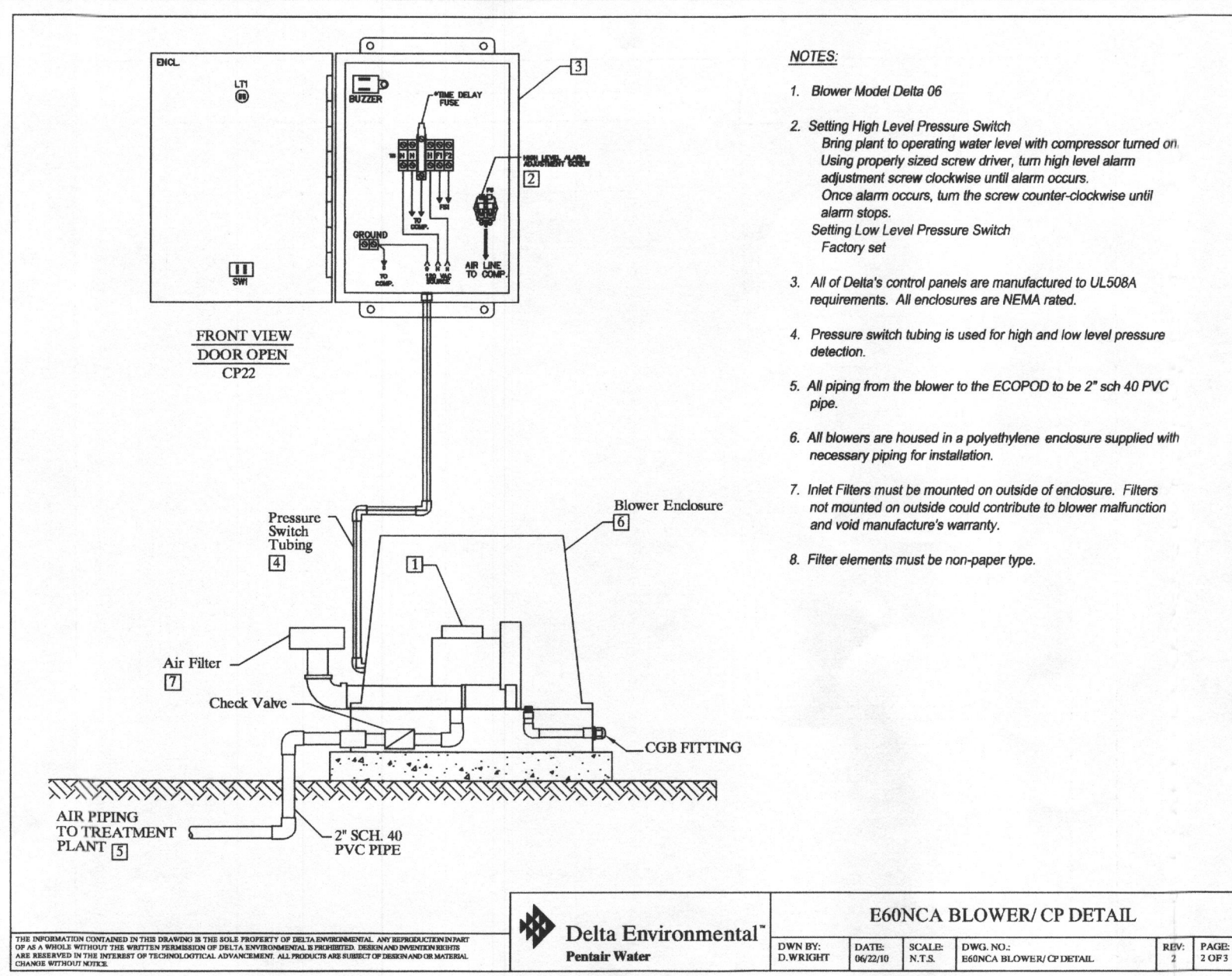


**PROFESSIONAL CERTIFICATION**  
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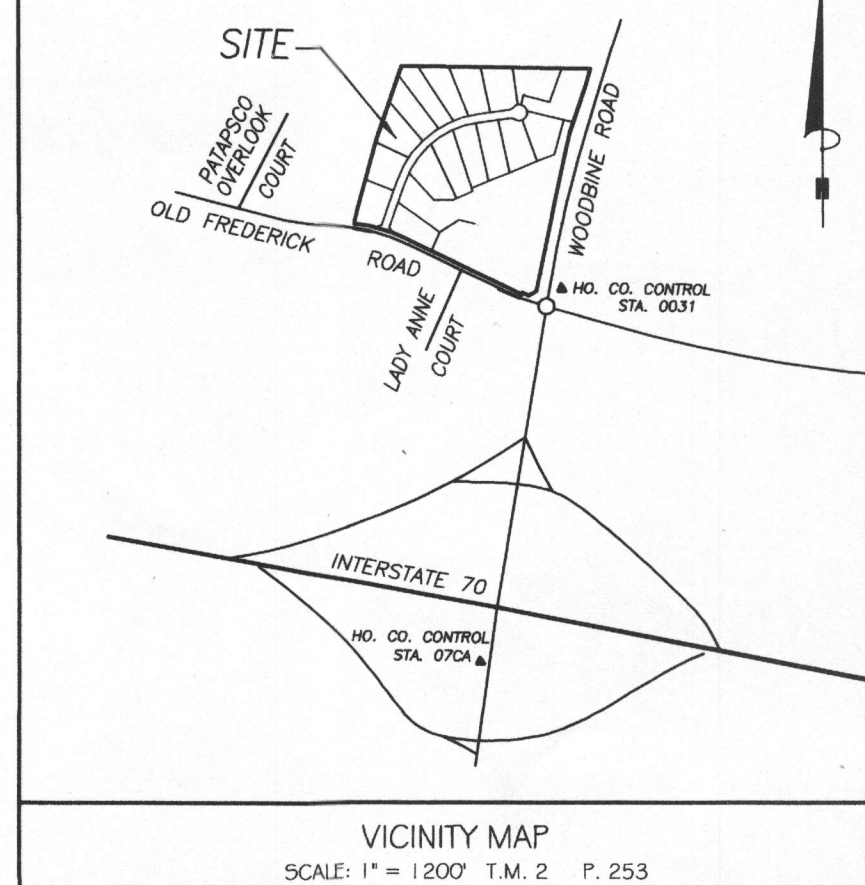


**PLOT PLAN**  
SITE PLAN FOR BAT TECHNOLOGY  
LOT 2  
**WOODBINE CROSSING**  
PLAT No. 20055  
715 WOODBINE CROSSING ROAD  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' JUNE, 2014

**VANMAR ASSOCIATES, INC.**  
Engineers Surveyors Planners  
310 South Main Street Mount Airy, Maryland 21771  
(301) 829-2890 (301) 831-5015 (410) 549-2751  
Fax (301) 831-5603 ©Copyright, Latest Date Shown



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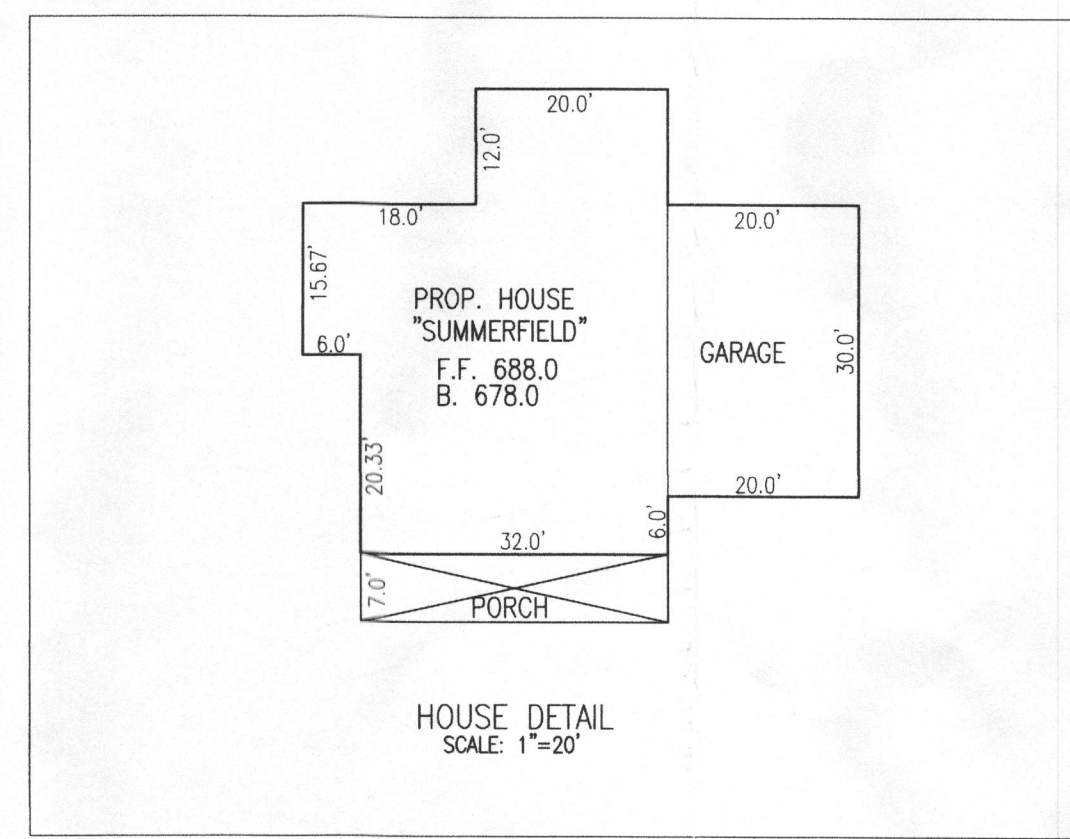
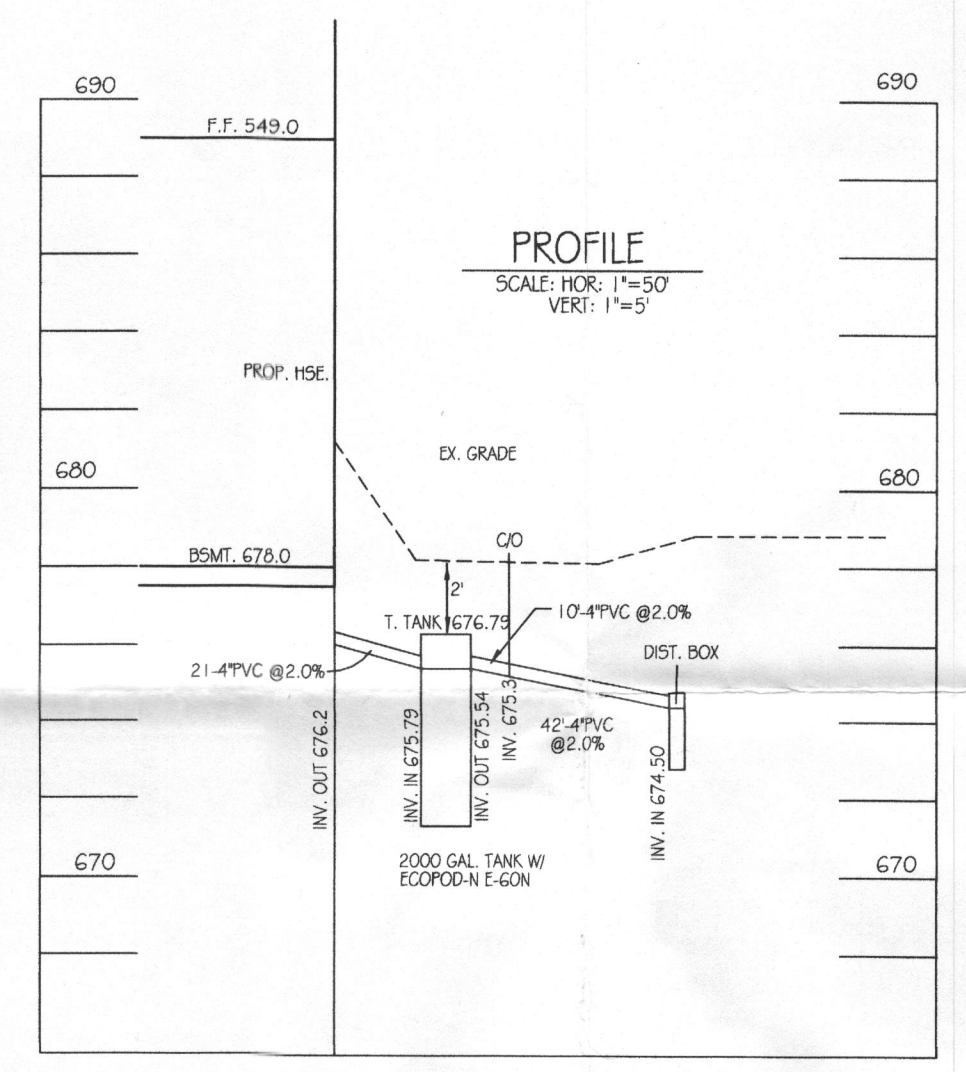


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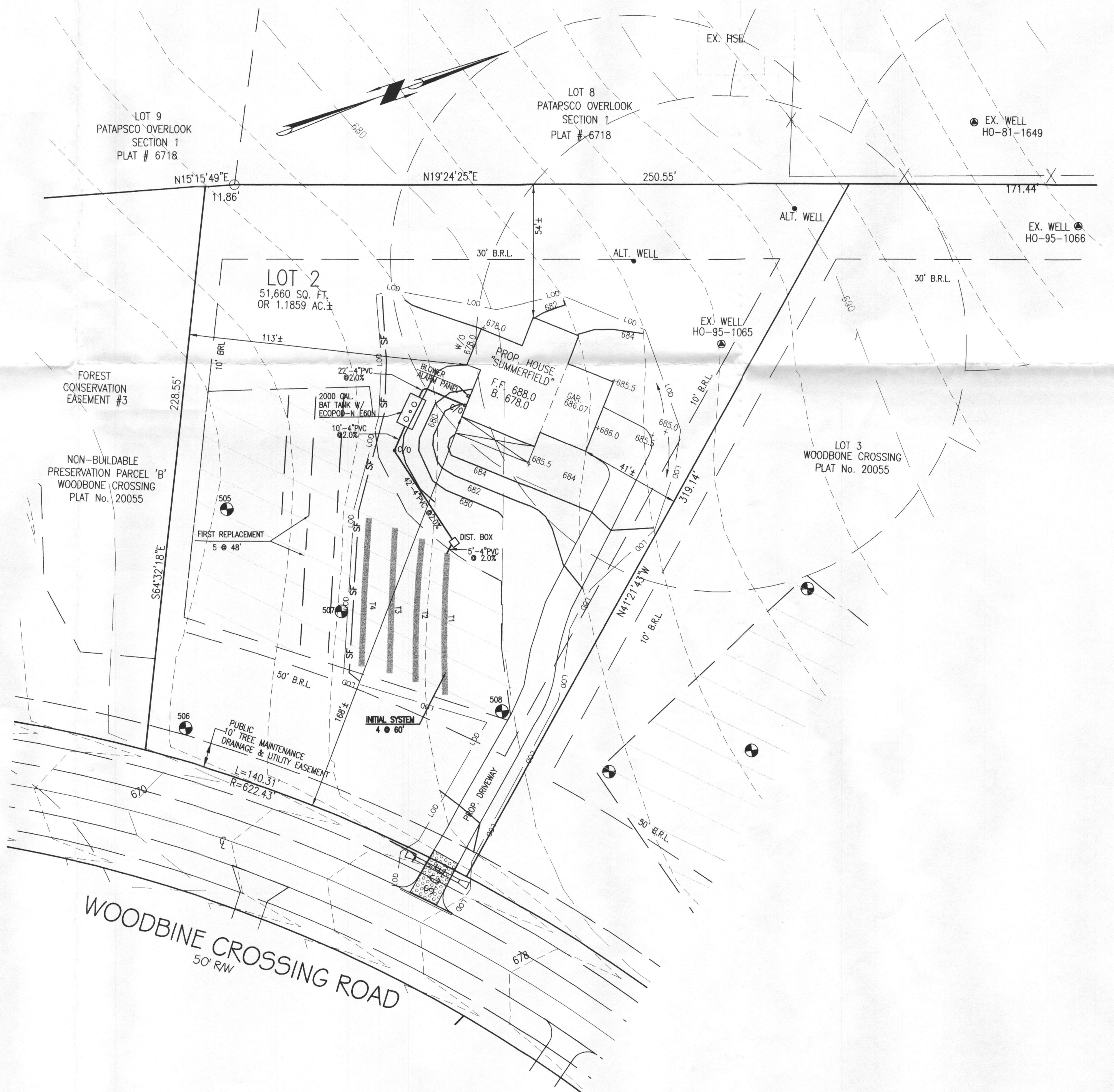
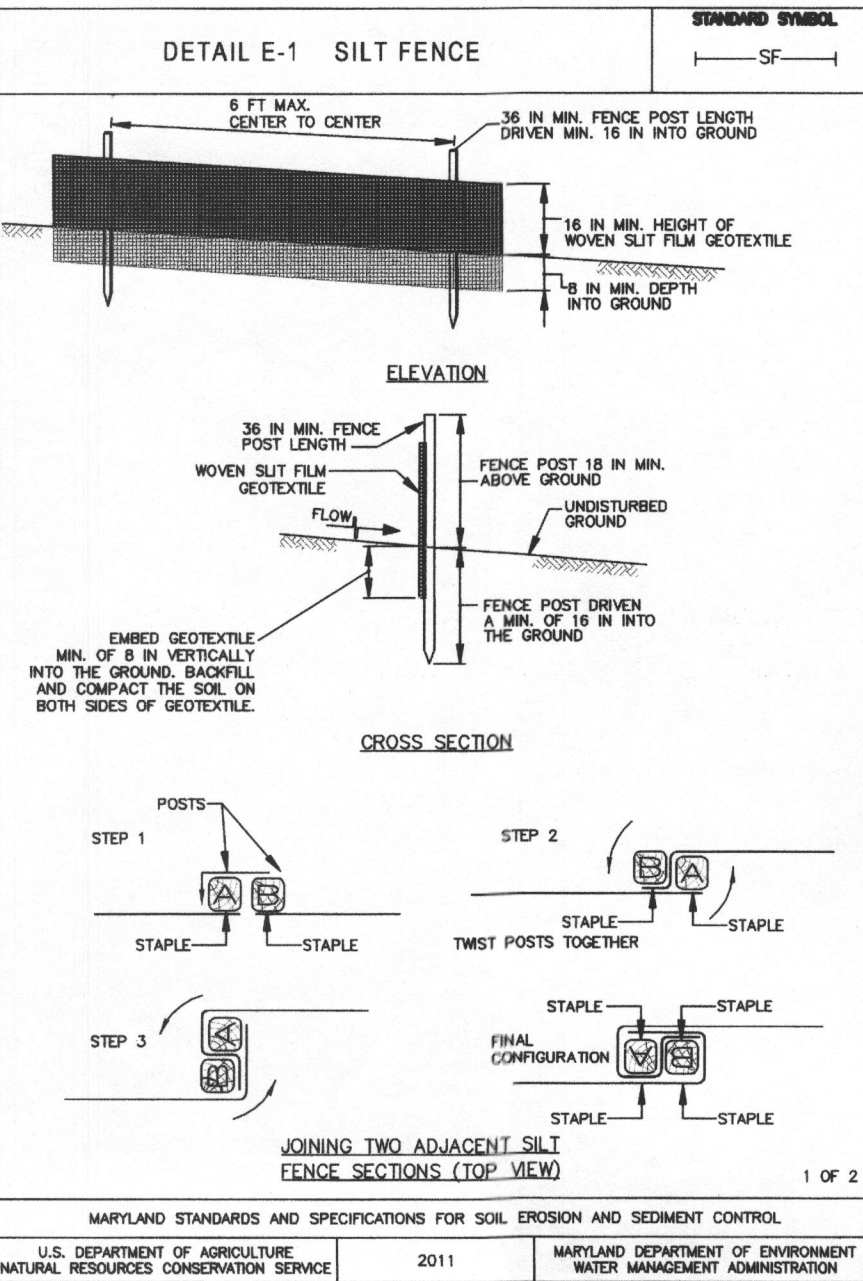
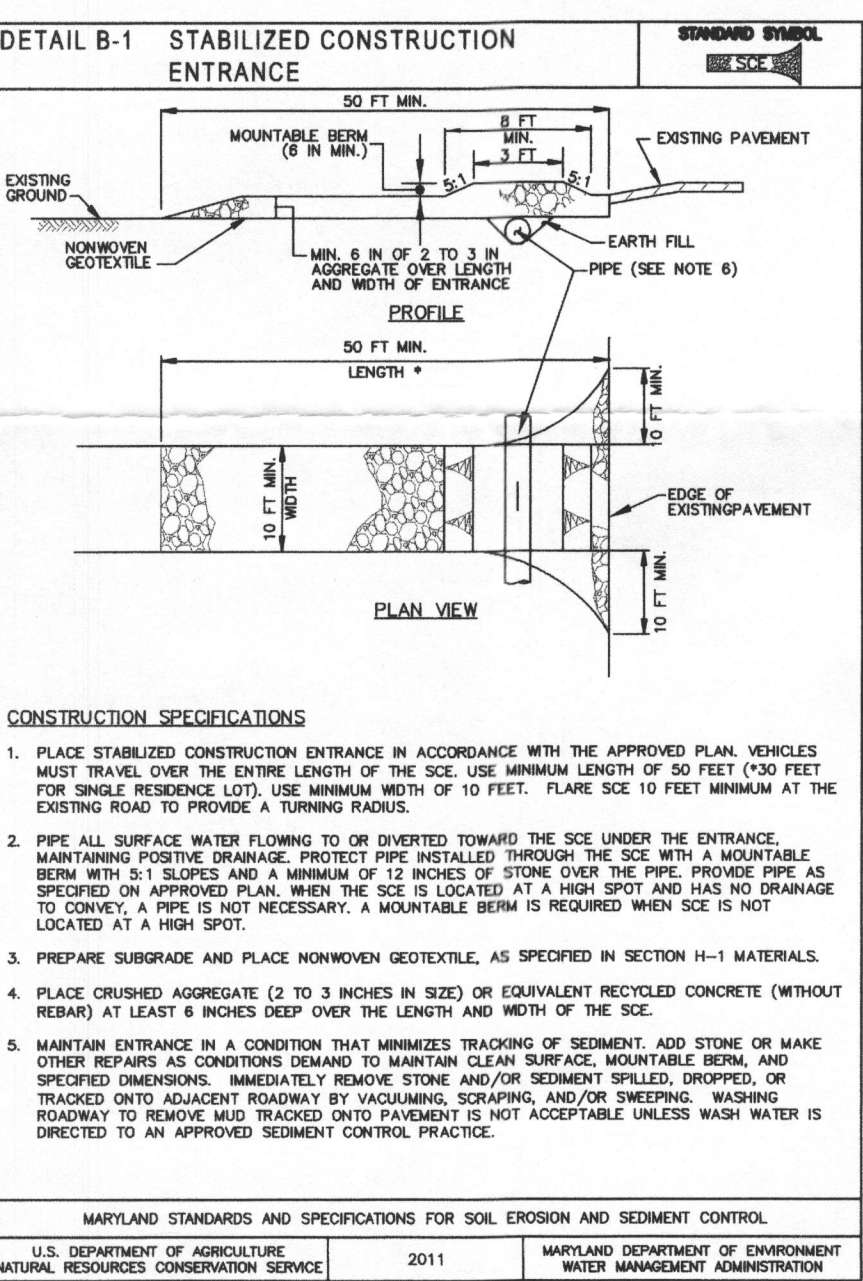
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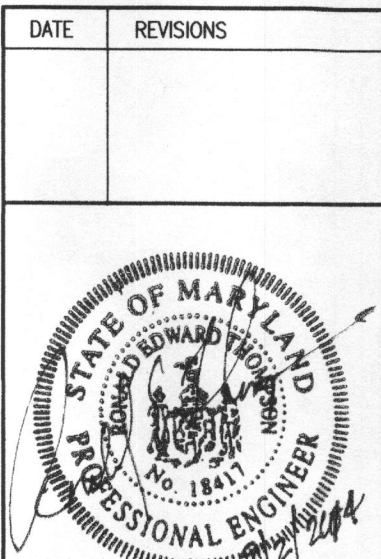
Approved Septic System Plan  
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 Signature: [Signature] Date: 9/16/11

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**PLOT PLAN**  
 SITE PLAN FOR BAT TECHNOLOGY  
 LOT 2  
**WOODBINE CROSSING**  
 PLAT No. 20055  
 715 WOODBINE CROSSING ROAD  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 30' JUNE, 2014

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