

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 555284-A

INSTALLATION APPROVAL DATE: 8/17/16 (KMW)

**PERMIT  
CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 13805 Forsythe Road

SUBDIVISION: Barrow Property LOT: \_\_\_\_\_ TAX ID: \_\_\_\_\_

CONTRACTOR: South Carroll Backhoe EMAIL: ken@skbackhoe.com

CONTRACTOR ADDRESS: 4410 Salem Bottom Road PHONE: 410-596-3618

PROPERTY OWNER: M & O Properties EMAIL: \_\_\_\_\_

OWNER ADDRESS: 12545 Indian Hill Road PHONE: 410-489-4596

BAT UNIT MODEL: Advantex AX20 Model 3 A BAT UNIT SIZE: 600 GPD

PUMP CHAMBER CAPACITY (GALLONS): \_\_\_\_\_ PUMP SIZE: \_\_\_\_\_

NUMBER OF BEDROOMS: 4 HOUSE SQ. FT. \_\_\_\_\_ APPLICATION RATE: \_\_\_\_\_

DISTRIBUTION SYSTEM: GRAVITY FED  LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>SEE BAT PLAN 156'</u>	INLET DEPTH: <u>SEE BAT PLAN 4'</u>
	TRENCH WIDTH: <u>SEE BAT PLAN 3'</u>	MAXIMUM BOTTOM DEPTH: <u>SEE BAT PLAN 6'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>SEE BAT PLAN 10'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>SEE BAT PLAN 3.5'</u>
	LOCATION: <b>PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.</b>	
NOTES:	Set BAT unit per plan. <i>3x52'</i>	

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 DOWNGRAIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

**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

TRENCH/DRAINFIELD DATA

WIDTH 3 INLET 4 BOTTOM 6

NUMBER OF TRENCHES 3

TOTAL LENGTH 165'

ABSORPTION AREA 495+sidewall

DISTRIBUTION BOX LEVEL Levelers

DISTRIBUTION BOX BAFFLE Yes

DISTRIBUTION BOX PORT Yes

See As-Built Drawing  
On Separate Sheet

SEPTIC TANK DATA

SEPTIC TANK I LEVEL Yes

MANUFACTURER Advantex

CAPACITY 2000 GAL

SEAM LOC Top

TANK LID DEPTH 3'

BAFFLES YES

BAFFLE FILTER NO

MANHOLE LOC Front/Rear

6" PORT LOC FRONT + REAR

WATERTIGHT TEST NO

SLOTTED NO

DATE ON LID NONE

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

ROAD NAME

PRE-CONSTRUCTION:

4/28/2015 Install three 55' trenches on contour across the top northern half of the septic easement. Put the dist. box near the top middle of the septic easement. Tank location staked. Need close to 2% fall to reach the septic easement by gravity. (BB)

INSTALLATION: 5/1/15 Upper trench 70% complete. Dig w/ transit, looks good. Stone clear, soil consistent w/ perc data. Tank set, ~140' of 4" sch 40 ran from tank to house @ 1.5%. OK to continue (W)

5/4/15 Pipe to house installed; need house connection. 140' before tank is bedded, rest of pipe on dirt. (SC) 5/6/2015 Didn't have file. House connection made. Got dist. box and trench locations and measurements. Checked levelers. Need start-up certification from Advantex inspector. (BB) 5/27/2015 Rechecked tank

FINAL INSPECTOR

DATE OF APPROVAL

8/17/16

location. Need BAT certification. (BB)

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

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

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LR - Agreement Recording Fee  
1x 20.00 20.00

Grantor/Grantee Name: m&o properties  
Reference/Control #: 152

LR - Agreement Surcharge  
1x 40.00 40.00

LR - Additional Recording Fee - linked  
1x 0.00 0.00

LR - Agreement Recording Fee  
1x 20.00 20.00

Grantor/Grantee Name: payne  
Reference/Control #: 153

LR - Agreement Surcharge  
1x 40.00 40.00

LR - Additional Recording Fee - linked  
1x 0.00 0.00

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SubTotal: 120.00

Total: 120.00

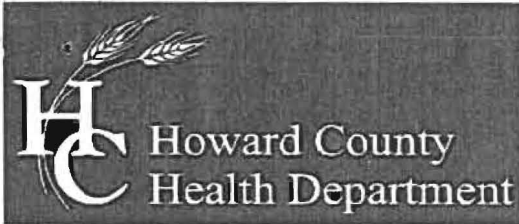
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REV-Check-BOA 120.00  
Number : 3203

07/05/2013 08:56 CC13-KC  
#1754735 /496/109

\*\*\*\*\* DUPLICATE #001 \*\*\*\*\*

07/05/2013 08:57 CC13-KC  
Thank you for visiting us today



## 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](https://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 10th day of June, 2013, among M&O Properties, LLC, 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 Forsythe Road, 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 14636 Folio 00375.

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.

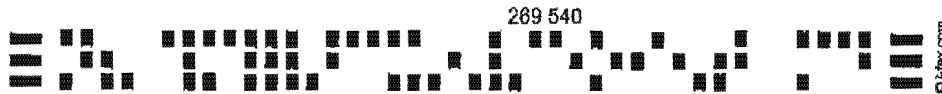
J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Belle Ann Dandson 6-10-13  
Owner Date

[Signature] 6-10-13  
Owner Date

[Signature] 6/19/13  
Howard County Health Department



# AdvanTex® Field Maintenance Report Start-Up Summary Report

Atlantic Solutions, MD  
(877) 814-8426

Property Owner/Tracking #		Operator		Installed Date 07/06/2015	
Site Address 13805 Forsythe Rd, Sykesville MD 21784				Start-Up Date 07/08/2015	
Phone Number	Permit #	Mode Mode 1A	Bedrooms	Occupants	Occupancy Date
Designer/Engineer Atlantic Solutions		Phone (401) 293-0176	Authorized Installer Phone		
AdvanTex Dealer Atlantic Solutions, LTD		Phone (401) 293-0176	Electrician Phone		

### Primary Treatment

If using a single Processing Tank, complete the following:

Processing Tank

Septic Volume ( \_\_\_\_\_ gal.)    Retiro Volume ( \_\_\_\_\_ gal.)

Construction     Concrete     Fiberglass     Other

Manufacturer: \_\_\_\_\_

If using a separate Septic Tank and Retiro Tank, complete the following:

Septic Tank ( \_\_\_\_\_ gal.)

Construction     Concrete     Fiberglass     Other

Manufacturer: \_\_\_\_\_

Retiro Tank ( \_\_\_\_\_ gal.)

Construction     Concrete     Fiberglass     Other

Manufacturer: \_\_\_\_\_

Pump Model: PF300511

Floats set properly at 11 -in. 13 -in. 24 -in.

### Secondary Treatment

RSV setting: \_\_\_\_\_ -in.

Residual head measurement:

Pod #1 \_\_\_\_\_ -in. Pod #2 \_\_\_\_\_ -in. Pod #3 \_\_\_\_\_ -in.

Discharge Tank/Basin ( \_\_\_\_\_ gal.)

Construction     Concrete     Fiberglass     PVC (Basin)

Manufacturer: \_\_\_\_\_

Pump Model: \_\_\_\_\_

Floats set properly at \_\_\_\_\_ -in. \_\_\_\_\_ -in. \_\_\_\_\_ -in.

Discharge pump flow rate (drawdown test): ( \_\_\_\_\_ gpm)

Discharge pump dose volume: ( \_\_\_\_\_ gal./dose)

Comments Start up

### Control Panel

Panel ID (RTU or UL #) TCOM - MVP	"On" Timer Setting	"Off" Timer Setting
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### Filter Pods

Pod #1 Serial No. 420764	Pod #2 Serial No.	Pod #3 Serial No.
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### Other System Components

Disinfection equipment (manufacturer): \_\_\_\_\_

Dispersal system (type of): \_\_\_\_\_

### Declarations (Initial)

Orenco's Start-Up Procedure was followed.

All lids are secured.

Circuit breakers are on and control panel is latched.

"For Service Call" label with phone # was affixed to panel.

\_\_\_\_\_ Homeowner Package was reviewed with:

Builder on (date) \_\_\_\_\_

Resident on (date) \_\_\_\_\_

The system is ready for use     Yes     No (explain)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Signature [Signature] Date 7-7-15

HO-95-2573

~264'

~295'

13805  
Forsythe  
Road

4' 3" 8.5' 1.5'

4' 7" 12' 1.5'

~239'

~257'

70'

~289'

~294'

298'

4'

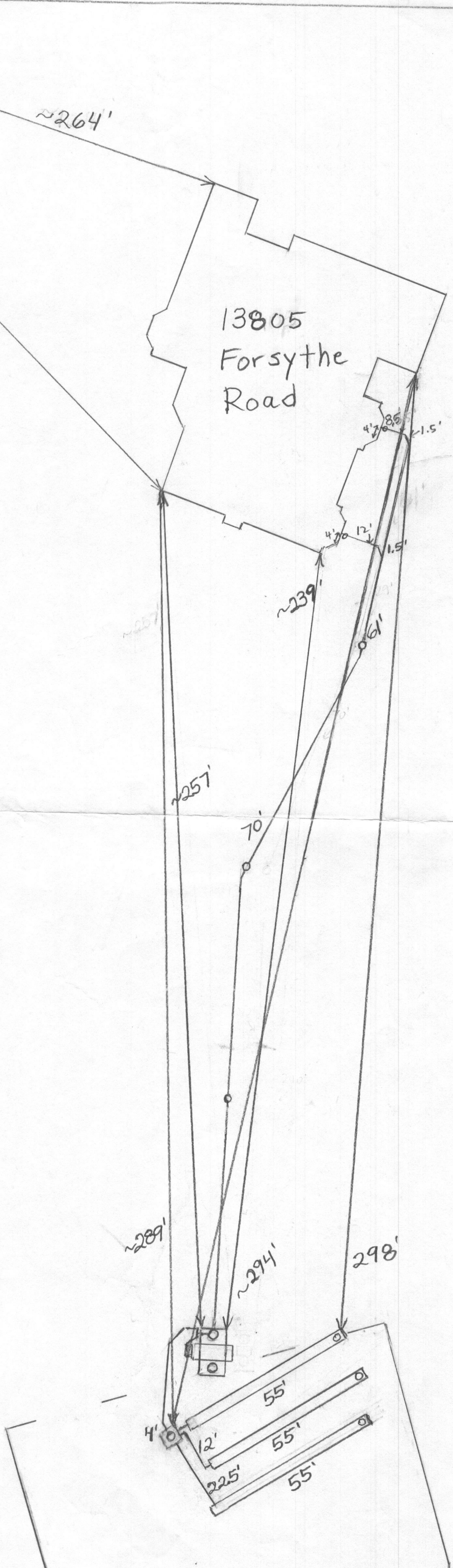
12'

225'

55'

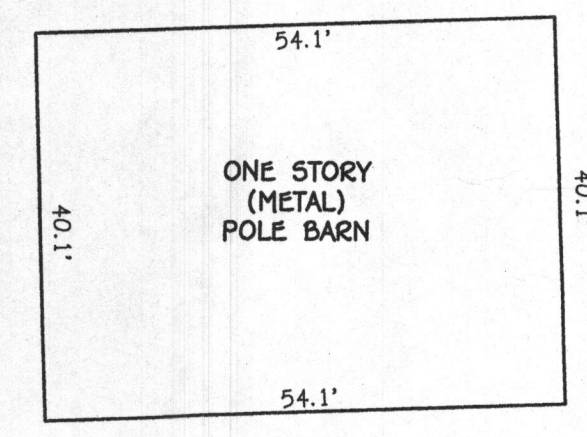
55'

55'

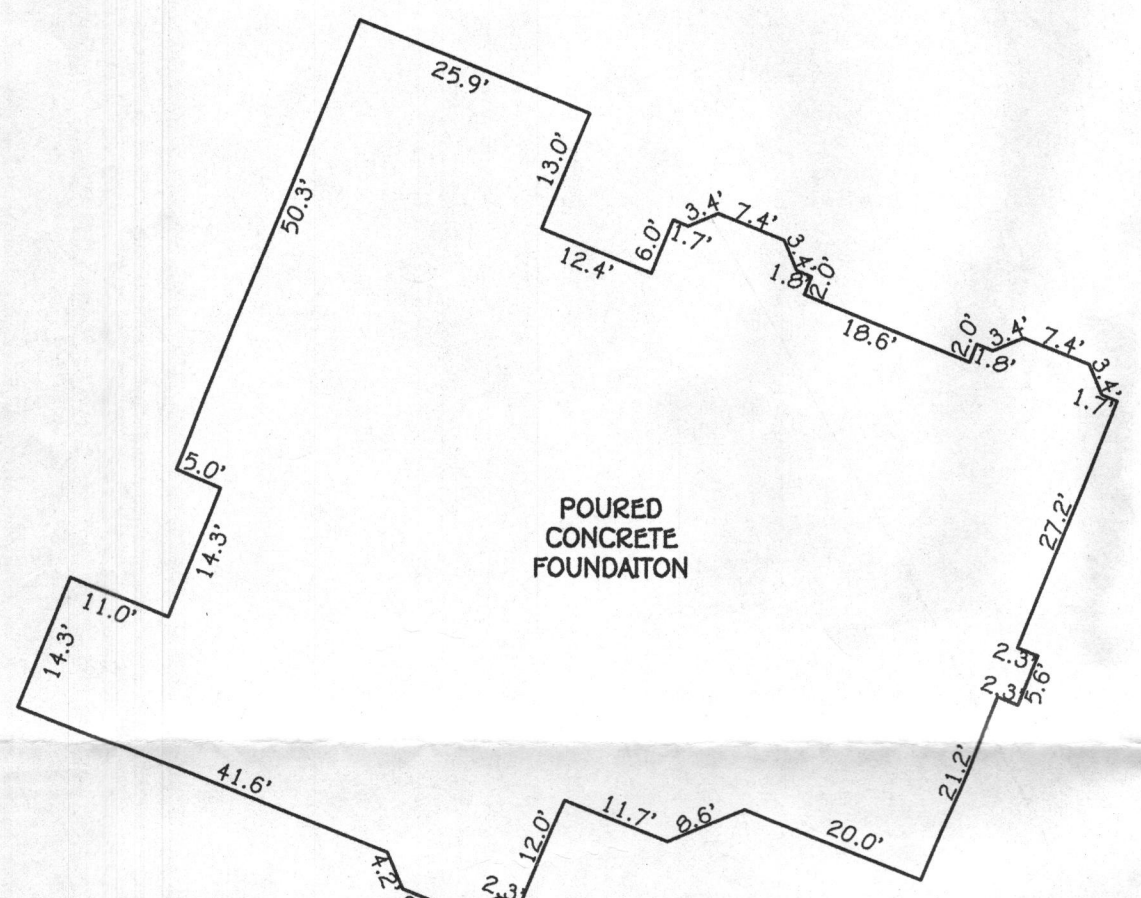


**GENERAL NOTES:**

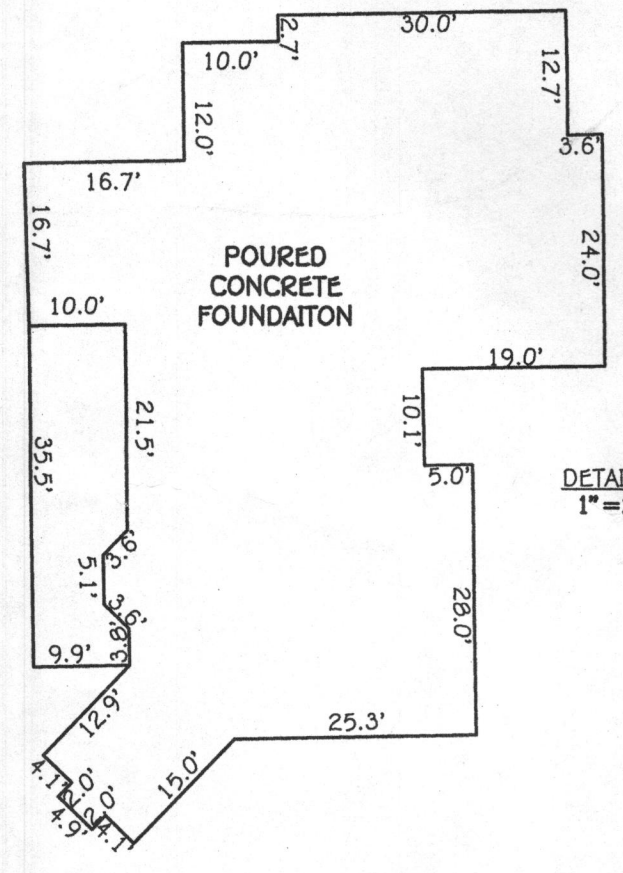
- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS LOCATION DRAWING IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS LOCATION DRAWING DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING FOR RE-FINANCING.
- 2) SUBJECT PROPERTY IS SHOWN IN ZONE X ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 24027C0055D, EFFECTIVE NOV. 5, 2013.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAN HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 1".
- 4) NO TITLE REPORT FURNISHED, SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
- 5) PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 339, EXPIRATION DATE 10/04/2014.
- 6) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-2572 & WELL TAG NUMBER HO-95-2573) HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
- 7) [Symbol] DENOTES SEPTIC FIELD.
- 8) THE BEARINGS AND DISTANCES SHOWN ON THIS SURVEY ARE BASED ON A FIELD RUN BOUNDARY SURVEY PERPARED BY FISHER, COLLINS & CARTER, INC ON OR ABOUT APRIL 23, 2013.



DETAIL #3  
1"=20'



DETAIL #1  
1"=20'



DETAIL #2  
1"=20'

LOT #1  
"KYNE PROPERTY"  
PLAT #0415

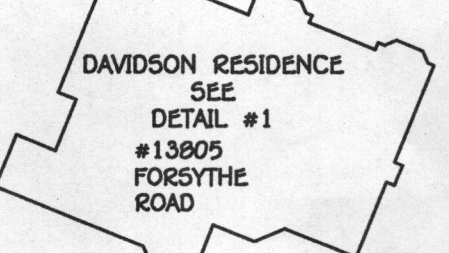
LOT #2  
"KYNE PROPERTY"  
PLAT #0415

FORSYTHE ROAD  
(MINOR COLLECTOR)

POB (14636/357) @ AN IRON PIPE FOUND ON THE SOUTH SIDE OF FORSYTHE ROAD AT THE END OF THE 14TH OR SOUTH 35.75 DEGREE WEST, 28 PERCH LINE OF THE FIRST PARCEL OF LAND DESCRIBED IN A MORTGAGE BETWEEN WILLIAM HENRY FORSYTHE AND MELL ADELLA FORSYTHE, HIS WIFE AND THE FEDERAL LAND BANK OF BALTIMORE, DATED JANUARY 16, 1934 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 148, FOLIO 157.

DEED REFERENCE:  
(14636/357 ~ PARCEL #1)  
18.421 ACRES±

*Wall Check  
10-22-14  
DB*



POB (14636/383) @ THE BEGINNING OF THE 11TH OR N 74.25 DEGREE EAST, 68 PERCH LINE OF THE FIRST PARCEL OF LAND DESCRIBED IN A MORTGAGE BETWEEN WILLIAM HENRY FORSYTHE AND MELL ADELLA FORSYTHE, HIS WIFE AND THE FEDERAL LAND BANK OF BALTIMORE, DATED JANUARY 16, 1934 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 148, FOLIO 157.

DEED REFERENCE:  
(14636/383)  
3.064 ACRES±

POB (14636/387) @ A POINT IN OR NEAR THE CENTERLINE OF UNDERWOOD ROAD AT THE END OF THE 11TH OR N 74.25 DEGREE EAST, 68 PERCH LINE OF THE FIRST PARCEL OF LAND DESCRIBED IN A MORTGAGE BETWEEN WILLIAM HENRY FORSYTHE AND MELL ADELLA FORSYTHE, HIS WIFE AND THE FEDERAL LAND BANK OF BALTIMORE, DATED JANUARY 16, 1934 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 148, FOLIO 157.

DEED REFERENCE:  
(14636/375)  
0.131 ACRES±



Mark A. Hill  
PROPERTY LINE SURVEYOR  
REG. #339  
7/3/14  
DATE

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21142  
(410) 461-2899

PAYNE RESIDENCE  
BUILDING PERMIT #18-13004158  
ADDRESS: #13710 BARBERRY WAY  
TOP OF FOUNDATION ELEVATION = 613.4'  
WELL TAG NUMBER HO-95-2572

DAVIDSON RESIDENCE  
BUILDING PERMIT #18-13004157  
ADDRESS: #13805 FORSYTHE ROAD  
TOP OF FOUNDATION ELEVATION = 609.5'  
WELL TAG NUMBER HO-95-2573

DAVIDSON POLE BARN  
BUILDING PERMIT #18-14001436  
ADDRESS: #13805 FORSYTHE ROAD  
TOP OF FOUNDATION ELEVATION = 608.1'

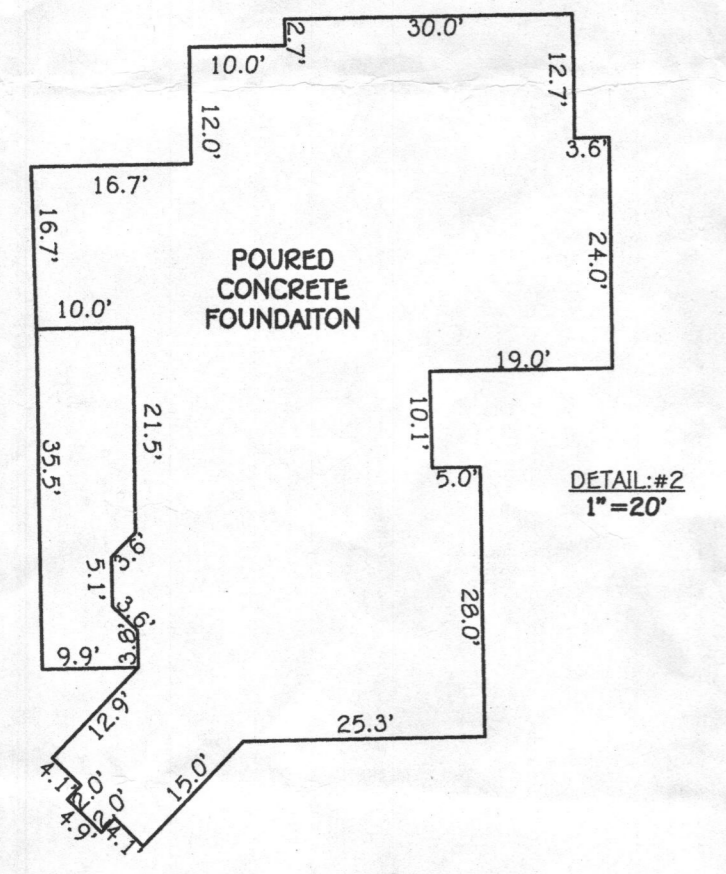
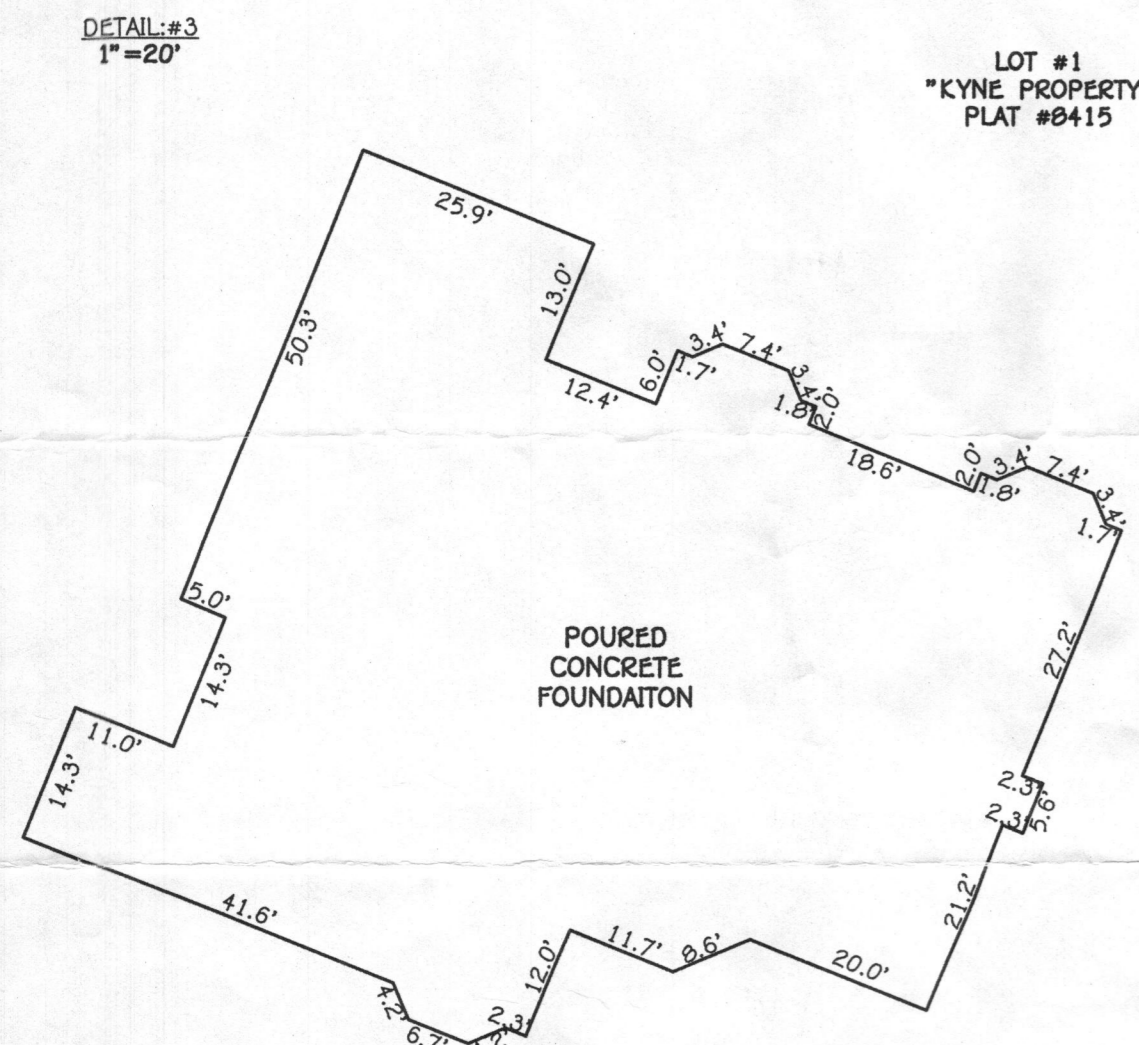
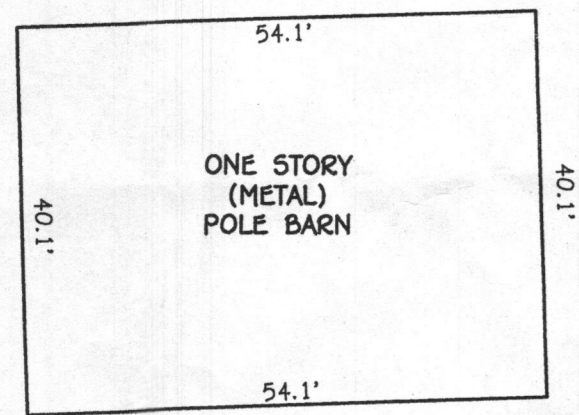
LOT #8  
"WEST CLIFFE MANOR"  
PLAT #3896

HOUSE LOCATION  
DRAWING  
FOUNDATION LOCATION: ZL17L14  
FINAL LOCATION:  
BOUNDARY SURVEY:  
SCALE: 1"=50'  
DATE: 7/31/14  
DRAWN BY: ZSD  
CHECKED BY: MJC  
PROJECT No. 21022-2001

HOUSE LOCATION SURVEY  
#13805 FORSYTHE ROAD  
#13710 BARBERRY WAY  
FOURTH ELECTOIN DISTRICT  
HOWARD COUNTY, MARYLAND

**GENERAL NOTES:**

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**FORSYTHE ROAD**  
(MINOR COLLECTOR)

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DEED REFERENCE:  
(14636/357 ~ PARCEL #1)  
10.421 ACRES\*

DAVIDSON RESIDENCE  
SEE  
DETAIL #1  
#13805 FORSYTHE ROAD

POB (14636/383) @ THE BEGINNING OF THE 11TH OR N 74.25 DEGREE EAST, 68 PERCH LINE OF THE FIRST PARCEL OF LAND DESCRIBED IN A MORTGAGE BETWEEN WILLIAM HENRY FORSYTHE AND MELL ADELLA FORSYTHE, HIS WIFE AND THE FEDERAL LAND BANK OF BALTIMORE, DATED JANUARY 16, 1934 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 148, FOLIO 157.

PAYNE RESIDENCE  
SEE  
DETAIL #2  
#13710 BARBERRY WAY

POB (14636/387) @ A POINT IN OR NEAR THE CENTRELINE OF UNDERWOOD ROAD AT THE END OF THE 11TH OR N 74.25 DEGREE EAST, 68 PERCH LINE OF THE FIRST PARCEL OF LAND DESCRIBED IN A MORTGAGE BETWEEN WILLIAM HENRY FORSYTHE AND MELL ADELLA FORSYTHE, HIS WIFE AND THE FEDERAL LAND BANK OF BALTIMORE, DATED JANUARY 16, 1934 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 148, FOLIO 157.

*Mark E. Rohlf*  
PROPERTY LINE SURVEYOR  
REC. #339  
7/31/14  
DATE



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BUILDING PERMIT #B-14001438  
ADDRESS: #13805 FORSYTHE ROAD  
TOP OF FOUNDATION ELEVATION = 608.1'

LOT #8  
WEST CLIFFE MANOR  
PLAT #3896

**HOUSE LOCATION DRAWING**

FOUNDATION LOCATION: ZL1Z14  
FINAL LOCATION:  
BOUNDARY SURVEY:  
SCALE: 1"=20'  
DATE: 7/31/14  
DRAWN BY: GAO  
CHECKED BY: JLE  
PROJECT No. 51029-2021

HOUSE LOCATION SURVEY  
#13805 FORSYTHE ROAD  
#13710 BARBERRY WAY  
FOURTH ELECTOIN DISTRICT  
HOWARD COUNTY, MARYLAND

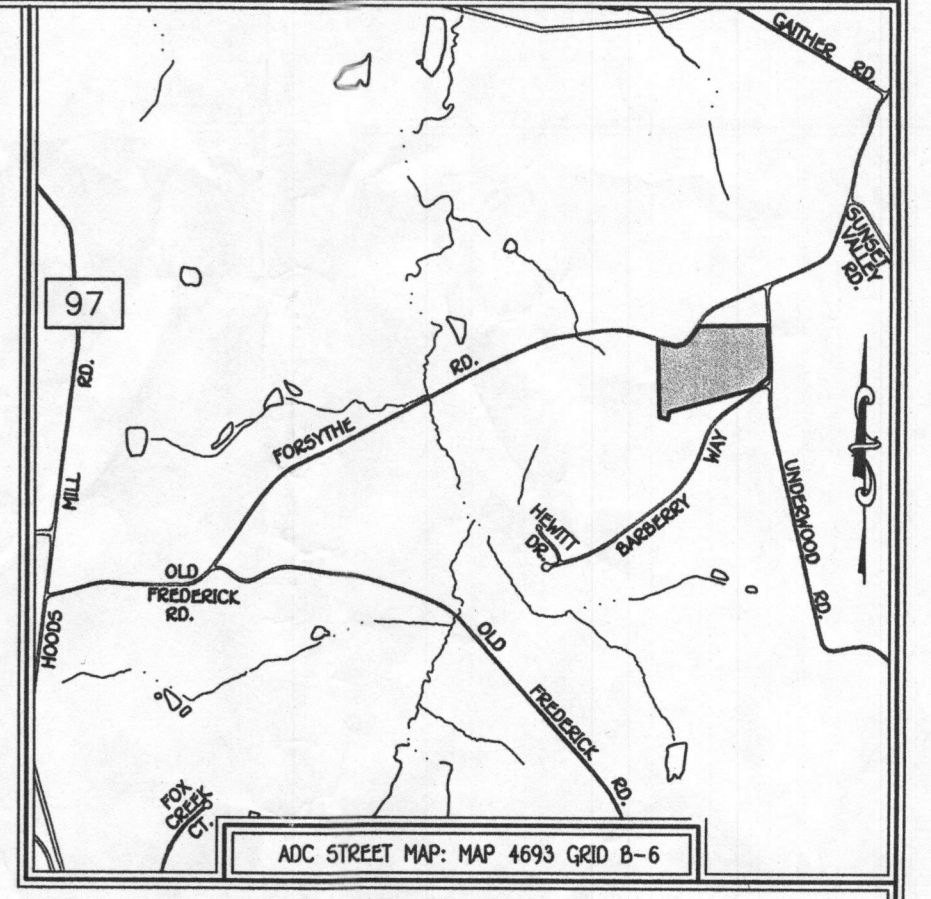
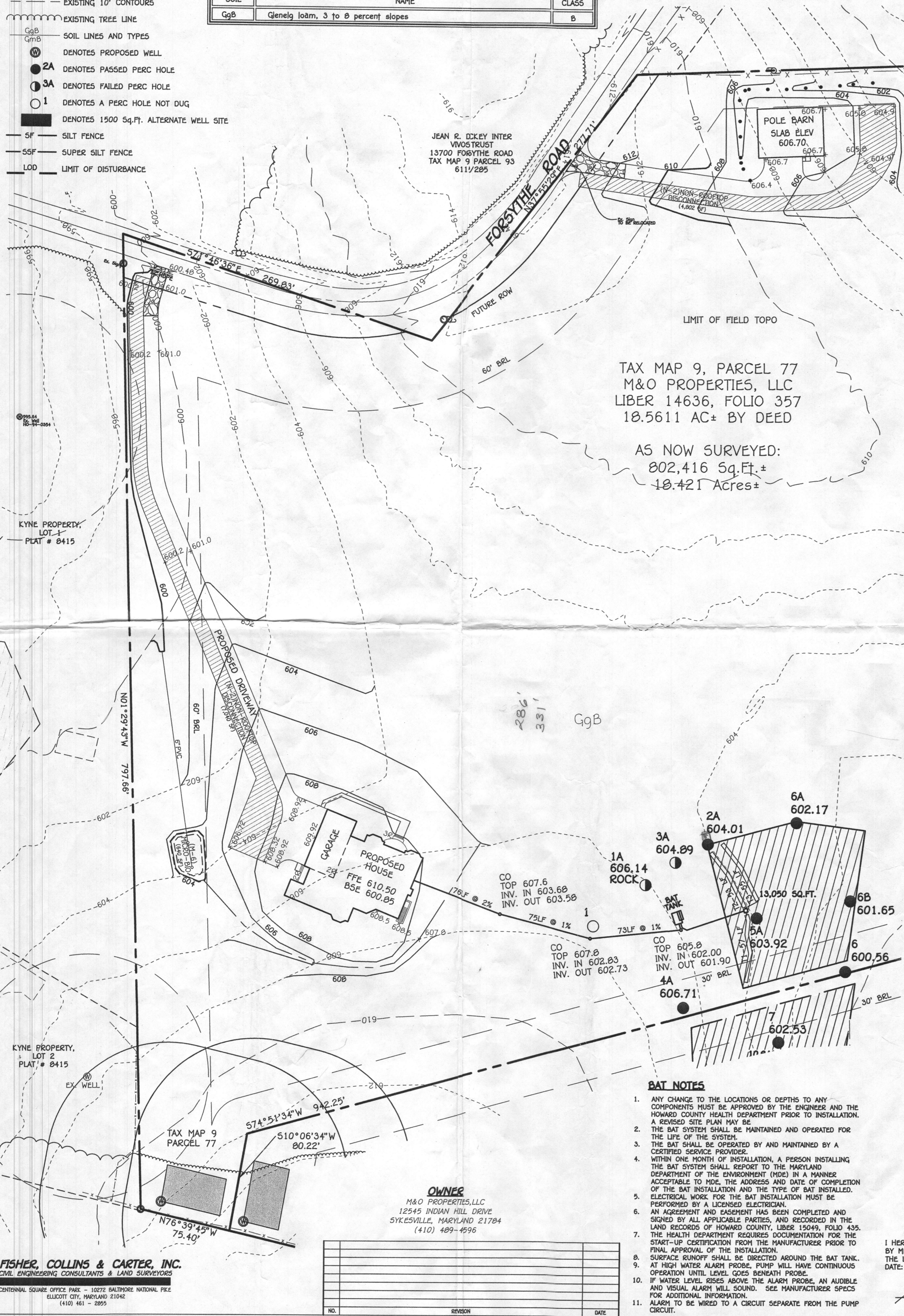
*Made check OK  
10-22-14  
11-11-14*

**LEGEND**

- - - EXISTING 2' CONTOURS
- - - EXISTING 10' CONTOURS
- - - EXISTING TREE LINE
- GgB GmB SOIL LINES AND TYPES
- ⊙ DENOTES PROPOSED WELL
- 2A DENOTES PASSED PERC HOLE
- 3A DENOTES FAILED PERC HOLE
- 1 DENOTES A PERC HOLE NOT DUG
- DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE
- SF SILT FENCE
- SSF SUPER SILT FENCE
- LOD LIMIT OF DISTURBANCE

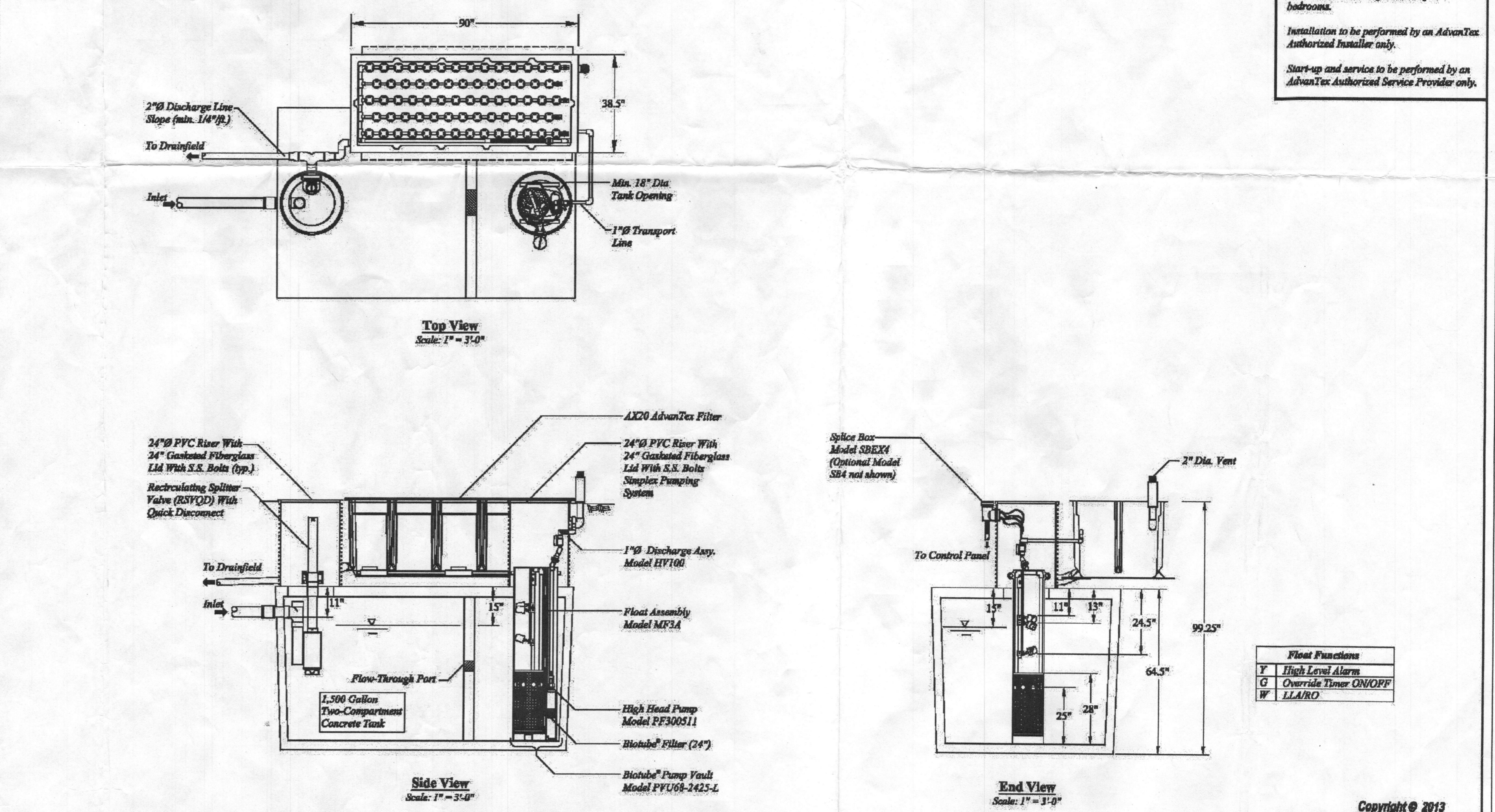
**SOILS LEGEND**

SOIL	NAME	CLASS
GgB	Glencol loam, 3 to 8 percent slopes	B



- GENERAL NOTES**
- SUBJECT PROPERTY ZONED: RC-D60
  - TOTAL AREA OF PROPERTY: 18.421 AC.
  - LIMIT OF DISTURBANCE: 128,583 SQ.FT. OR 2.95 ACRES±.
  - SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT REVIEW.
  - LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
  - CONTRACTOR/BUILDER TO VERIFY ELEVATION IN THE FIELD BEFORE BEGINNING ANY CONSTRUCTION.
  - BOUNDARY BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY CONDUCTED BY FISHER, COLLINS & CARTER, INC. IN MAY 2013.
  - TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY CONDUCTED BY FISHER, COLLINS & CARTER, INC. IN MAY 2013. OFF-SITE AND AREAS OUTSIDE THE LIMITS OF FIELD TOPOGRAPHY ARE BASED ON HOWARD COUNTY GIS TOPOGRAPHY AT 2' CONTOUR INTERVAL.
  - NO WETLANDS EXIST ON THIS PARCEL.
  - THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL 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 SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
  - PROPERTY DEED REFERENCE: LIBER 14636, FOLIO 383.

**AdvanTex® AX20 Mode 3A**



**Design Notes**

For residential strength made up to 4 bedrooms.

Installation to be performed by an AdvanTex Authorized Installer only.

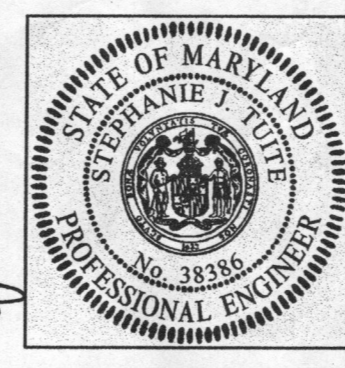
Start-up and service to be performed by an AdvanTex Authorized Service Provider only.

- 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 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 HAS BEEN COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN THE LAND RECORDS OF HOWARD COUNTY, LIBER 15049, FOLIO 435. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
  - SURFACE RUNOFF SHALL BE DIRECTED AROUND THE BAT TANK.
  - AT HIGH WATER ALARM PROBE, PUMP WILL HAVE CONTINUOUS OPERATION UNTIL LEVEL GOES BENEATH PROBE.
  - IF WATER LEVEL RISES ABOVE THE ALARM PROBE, AN AUDIBLE AND VISUAL ALARM WILL SOUND. SEE MANUFACTURER'S SPECS FOR ADDITIONAL INFORMATION.
  - ALARM TO BE WIRED TO A CIRCUIT SEPARATE FROM THE PUMP CIRCUIT.

**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. 38386, EXPIRATION DATE: 01/12/2014.

*Stephanie Suite* 12/9/13  
Signature of Professional Engineer DATE



**SEPTIC SYSTEM ELEVATIONS**

FPE = 610.50  
BSE = 600.95  
INV. OUT OF HOUSE = 605.20  
BASEMENT SEWERAGE IS TO BE PUMPED

EX/PROP GRADE AT BAT TANK (TOP OF FILTER CHAMBER) = 605.80  
TOP OF TANK = 602.90  
INVERT INTO TANK = 601.98  
INVERT OUT OF TANK = 602.78  
HIGH LEVEL ALARM (Y) = 601.98  
OVERRIDE TIMER ON/OFF (G) = 601.81  
LOW LEVEL ALARM - LLA/RO (W) = 600.85

GRADE AT DISTRIBUTION BOX = 604.1  
INV. INTO DISTRIBUTION BOX = 601.35

**SEPTIC SYSTEM DESIGN**

4 BEDROOM HOUSE  
TRENCH LENGTH = 165 FEET  
TRENCH INVERT = 3 FEET  
TRENCH T1 INVERT = 601.1  
TRENCH T2 INVERT = 601.1  
TRENCH T3 INVERT = 600.8  
TRENCH DEPTH = 6 FEET

**BAT SITE PLAN**

**13805 FORSYTHE ROAD**

TAX MAP #9 GRID #19 PARCEL: 77  
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1"=50' DATE: NOVEMBER, 2013

K:\Drawings\6161089\RD\DWG\Borrow\61089 BAT Site Plan Par 77, 12/9/2013 10:01:59 AM, 1:1

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALDORNE NATIONAL PIKE  
ELICOTT CITY, MARYLAND 21042  
(410) 461-2855