









## Collins, Sarah

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**From:** Collins, Sarah  
**Sent:** Wednesday, June 27, 2018 9:01 AM  
**To:** kristin@freedomseptic.com  
**Subject:** 6902 Brooks Road

Hi Kristin,

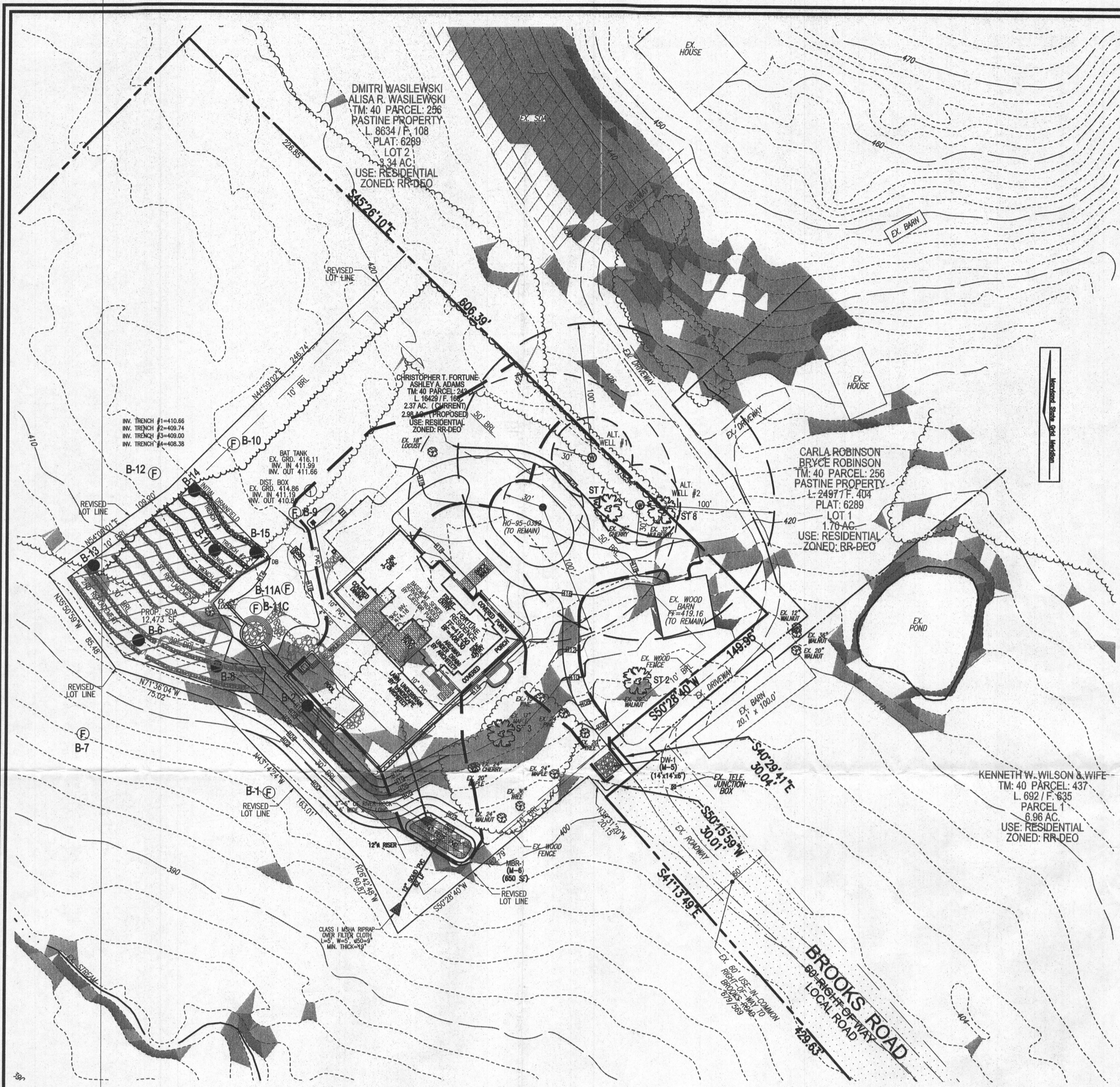
It looks like we didn't approve any new plans or issue a new permit for 6902 Brooks Road, but there's a note on the permit from Kevin saying 'No whole-house RO system allowed!!' Before we give final approval of the septic permit, we'll need something in writing from the owner stating that they will not install a whole-house RO system in the house. Otherwise we have no way of knowing what they decide to install for water treatment in the house.

Thanks for your help,  
Sarah

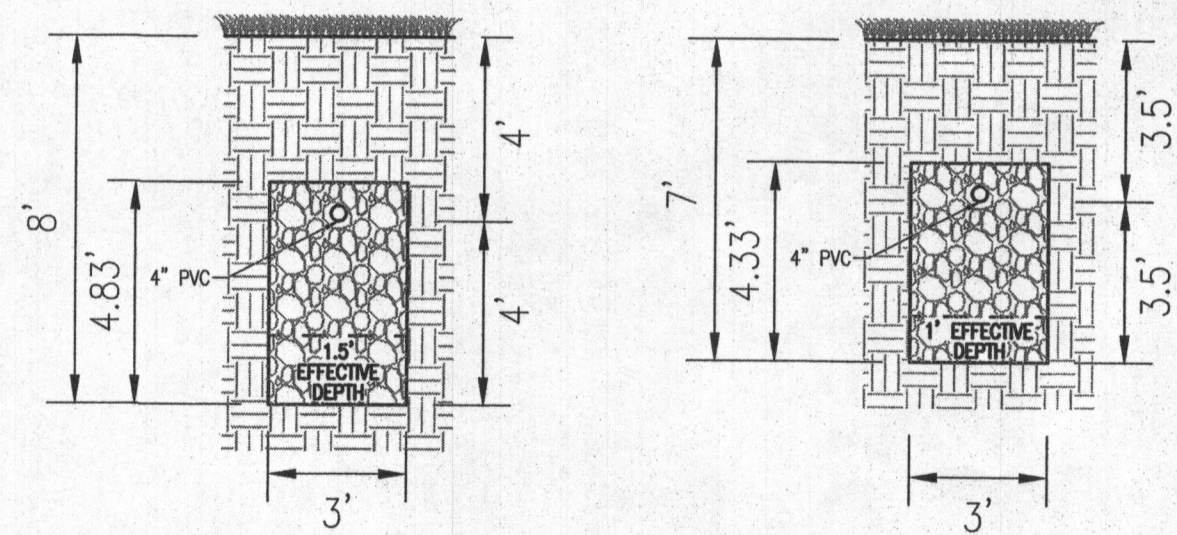
Sarah Collins, L.E.H.S.  
Howard County Health Department  
Bureau of Environmental Health  
8930 Stanford Blvd.  
Columbia, MD 21045  
[SCollins@howardcountymd.gov](mailto:SCollins@howardcountymd.gov)  
410-313-6287

#### CONFIDENTIALITY NOTICE

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TRENCH	LENGTH	INVERT	TOP	OF TRENCH	EXISTING GROUND
1	76'	410.66	406.66	414.66	
2	74'	409.74	405.74	413.74	
3	72'	409.00	405.00	413.00	
4	74'	408.38	404.38	412.38	



**INITIAL SYSTEM TRENCH DETAIL**  
NOT TO SCALE

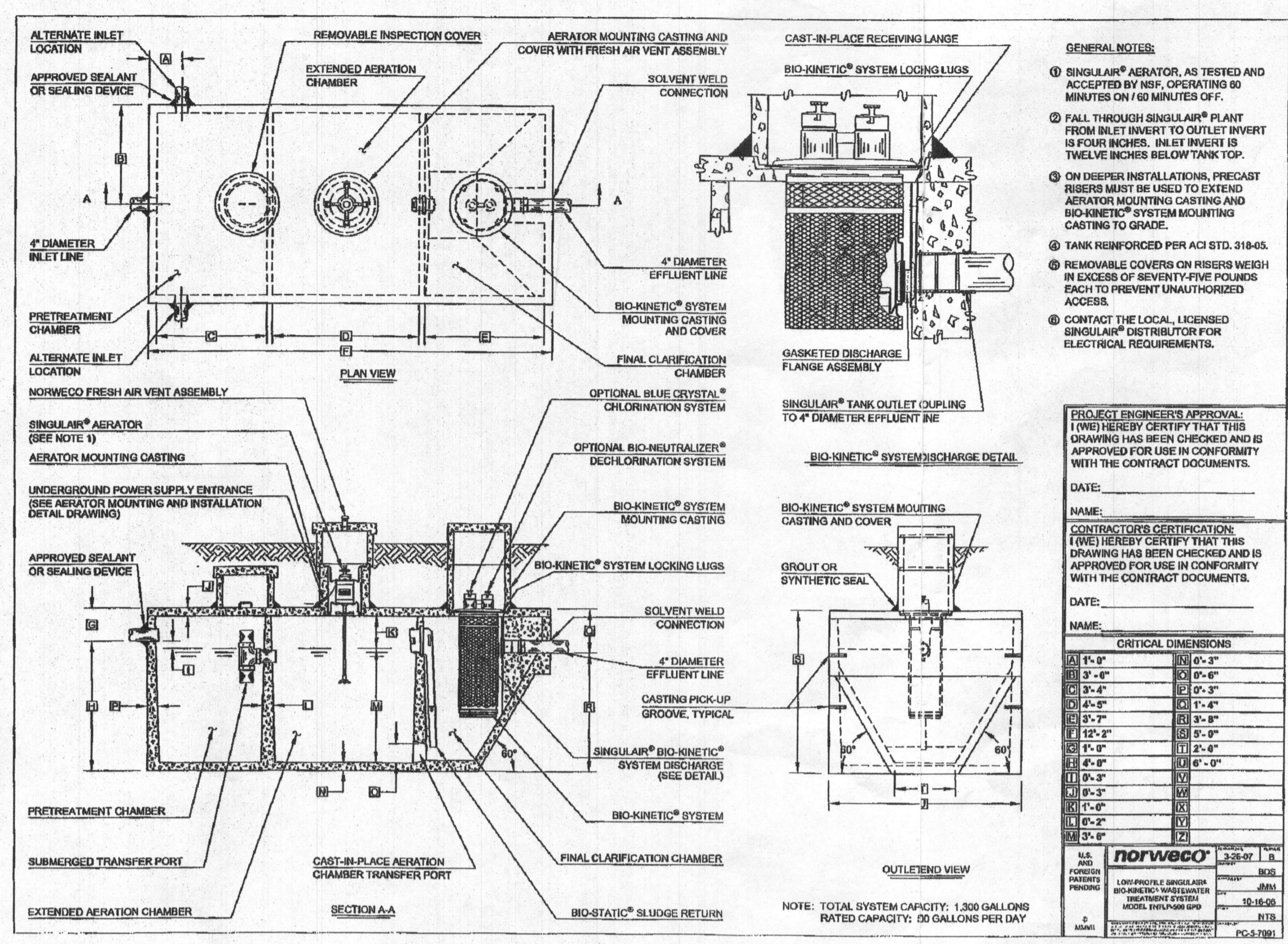
**1ST REPLACEMENT TRENCH DETAIL**  
NOT TO SCALE

**SYSTEM CALCULATIONS:**

**INITIAL SYSTEM:**  
5 BEDROOMS AT 750gpd / 0.6 ABSORPTION RATE = 1,250 SQ. FT.  
1,250 SQ. FT. / 3 (TRENCH WIDTH) x .71 (SIDEWALL REDUCTION) = 296 LINEAR FEET  
296 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.

**FIRST REPLACEMENT SYSTEM:**  
5 BEDROOMS AT 750gpd / 0.8 ABSORPTION RATE = 938 SQ. FT.  
938 SQ. FT. / 3 (TRENCH WIDTH) x .83 (SIDEWALL REDUCTION) = 260 LINEAR FEET  
260 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.

THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS EASEMENT ARE RESTRICTED. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.



- GENERAL NOTES:**
- SINGULAR® AERATOR, AS TESTED AND ACCEPTED BY M.D.E., OPERATING 60 MINUTES ON / 60 MINUTES OFF.
  - FALL THROUGH SINGULAR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
  - ON DISPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE.
  - TANK REINFORCED PER ACI STD. 318-03.
  - REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
  - CONTACT THE LOCAL LICENSED SINGULAR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

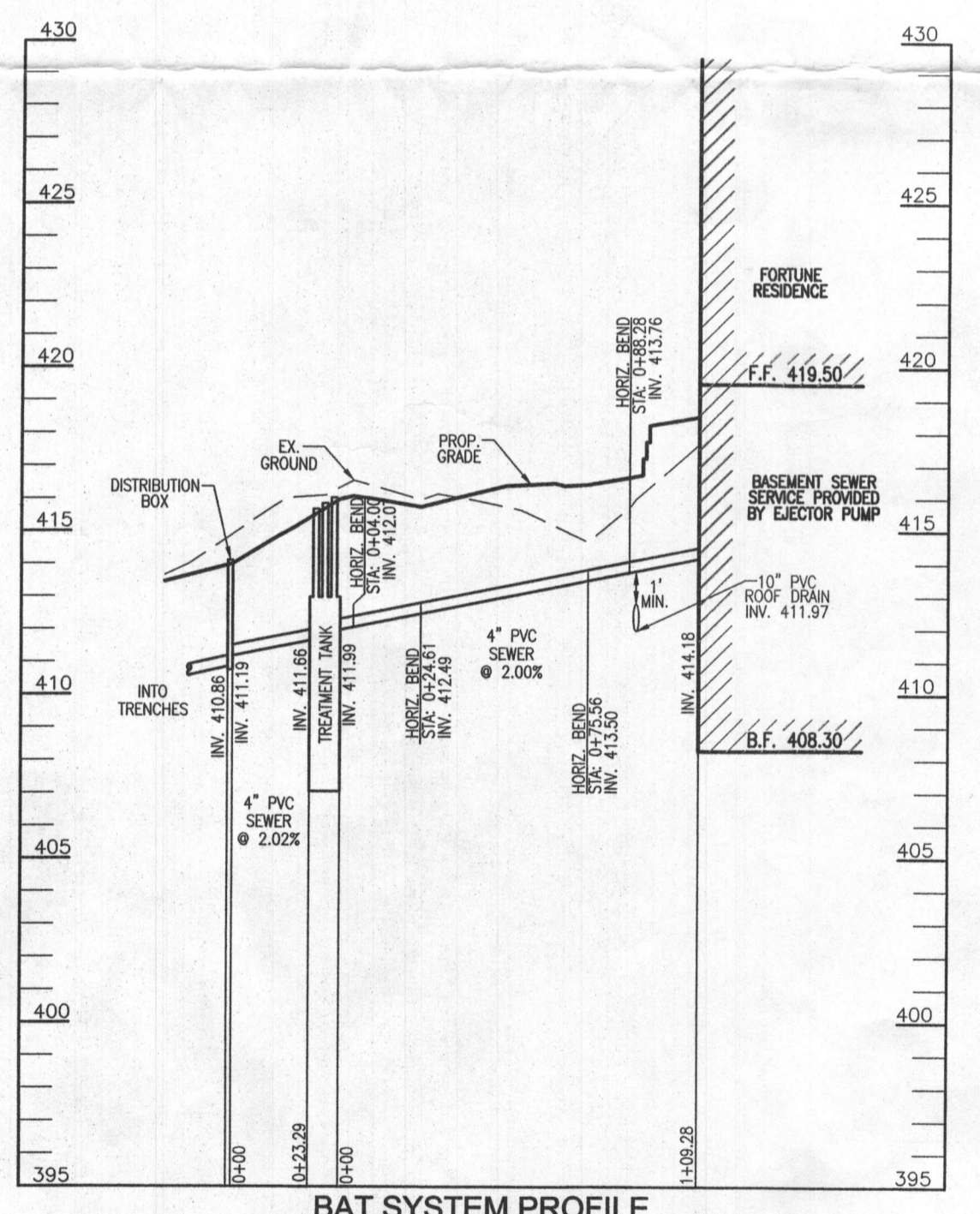
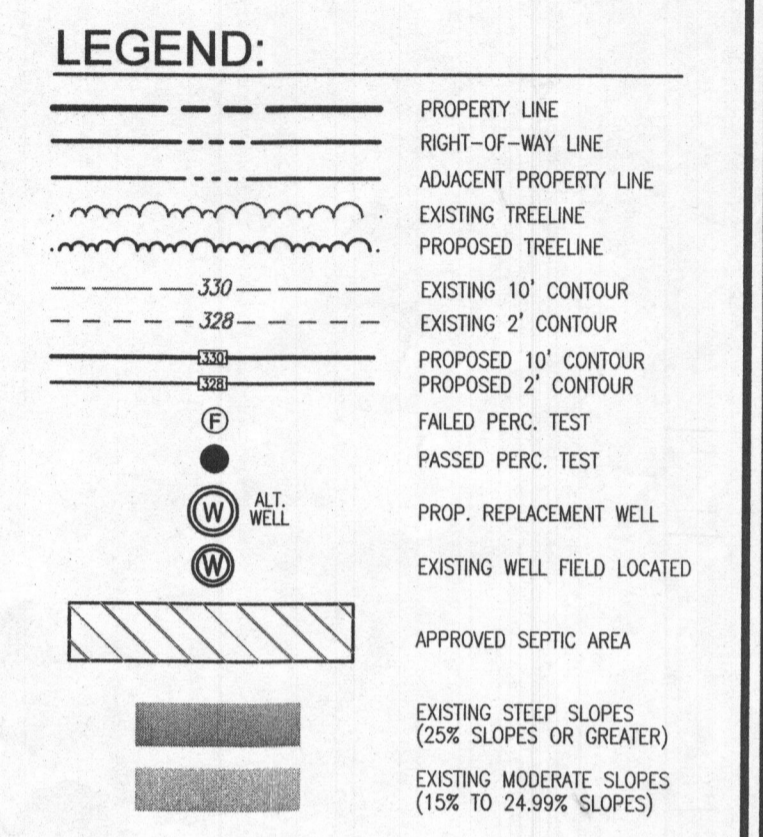
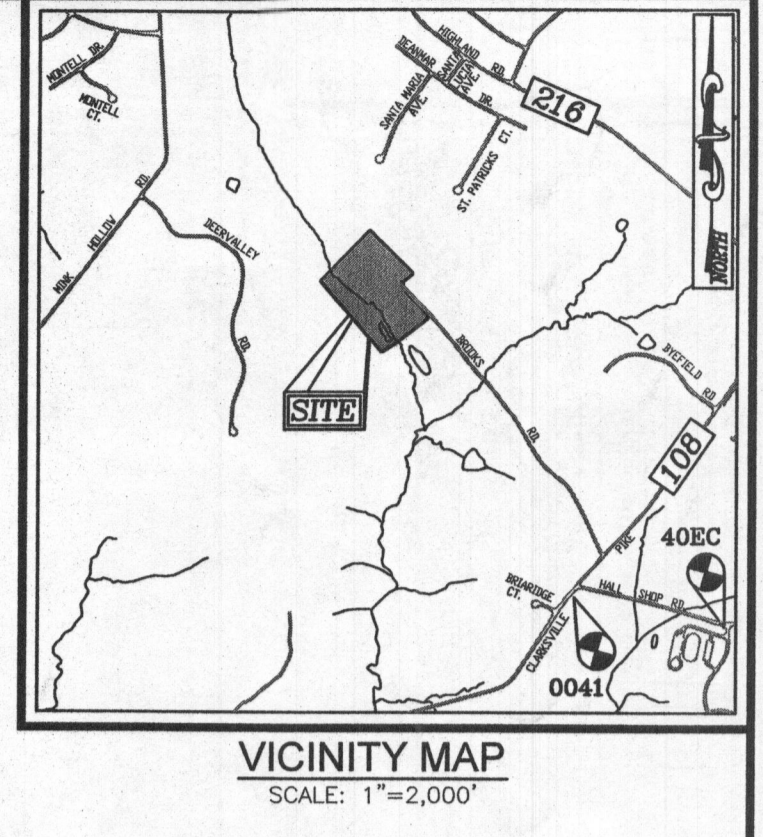
**PROJECT ENGINEER'S APPROVAL:**  
I (WE) HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.  
DATE: \_\_\_\_\_  
NAME: \_\_\_\_\_

**CONTRACTOR'S CERTIFICATION:**  
I (WE) HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.  
DATE: \_\_\_\_\_  
NAME: \_\_\_\_\_

**CRITICAL DIMENSIONS**

1'-0"	0'-0"	0'-0"
2'-0"	0'-0"	0'-0"
3'-0"	0'-0"	0'-0"
4'-0"	0'-0"	0'-0"
5'-0"	0'-0"	0'-0"
6'-0"	0'-0"	0'-0"
7'-0"	0'-0"	0'-0"
8'-0"	0'-0"	0'-0"
9'-0"	0'-0"	0'-0"
10'-0"	0'-0"	0'-0"
11'-0"	0'-0"	0'-0"
12'-0"	0'-0"	0'-0"
13'-0"	0'-0"	0'-0"
14'-0"	0'-0"	0'-0"
15'-0"	0'-0"	0'-0"
16'-0"	0'-0"	0'-0"
17'-0"	0'-0"	0'-0"
18'-0"	0'-0"	0'-0"
19'-0"	0'-0"	0'-0"
20'-0"	0'-0"	0'-0"

**NOTE:** TOTAL SYSTEM CAPACITY: 1,200 GALLONS RATED CAPACITY: 80 GALLONS PER DAY



**BAT SYSTEM PROFILE**  
SCALE: HORIZONTAL - 1"=50'  
VERTICAL - 1"=5'

- GENERAL NOTES:**
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
  - THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET.
  - NO BLOWER IS REQUIRED. THE NORWECO WASTEWATER TREATMENT SYSTEM HAS AN AERATOR MOUNTED IN THE TANK.
  - THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
  - THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
  - WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
  - ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
  - AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
  - THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATE FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

Approved Septic System Plan  
Howard County Health Department  
Mark Oswald 10/3/16  
Signature Date

**OWNER**  
CHRISTOPHER T. FORTUNE  
ASHLEY A. ADAMS  
4524 ALPINE ROSE BEND  
ELLCOTT CITY, MD 21042  
410-733-4454

**BUILDER**  
SMITHOUSE CONSTRUCTION, LLC  
232 COCKEYSVILLE RD., SUITE 5200  
COCKEYSVILLE, MD 21030  
(410) 329-1262

**SITE PLAN FOR BAT INSTALLATION**  
FORTUNE PROPERTY  
6902 BROOKS ROAD  
HIGHLAND, MD 20777  
(L. 16429 / F. 166)

BUILDING PERMIT # \_\_\_\_\_

TAX MAP: 40 GRID: 03  
5TH ELECTION DISTRICT

ZONED: RR-DEO  
PARCELS: 421 & 243  
HOWARD COUNTY, MARYLAND

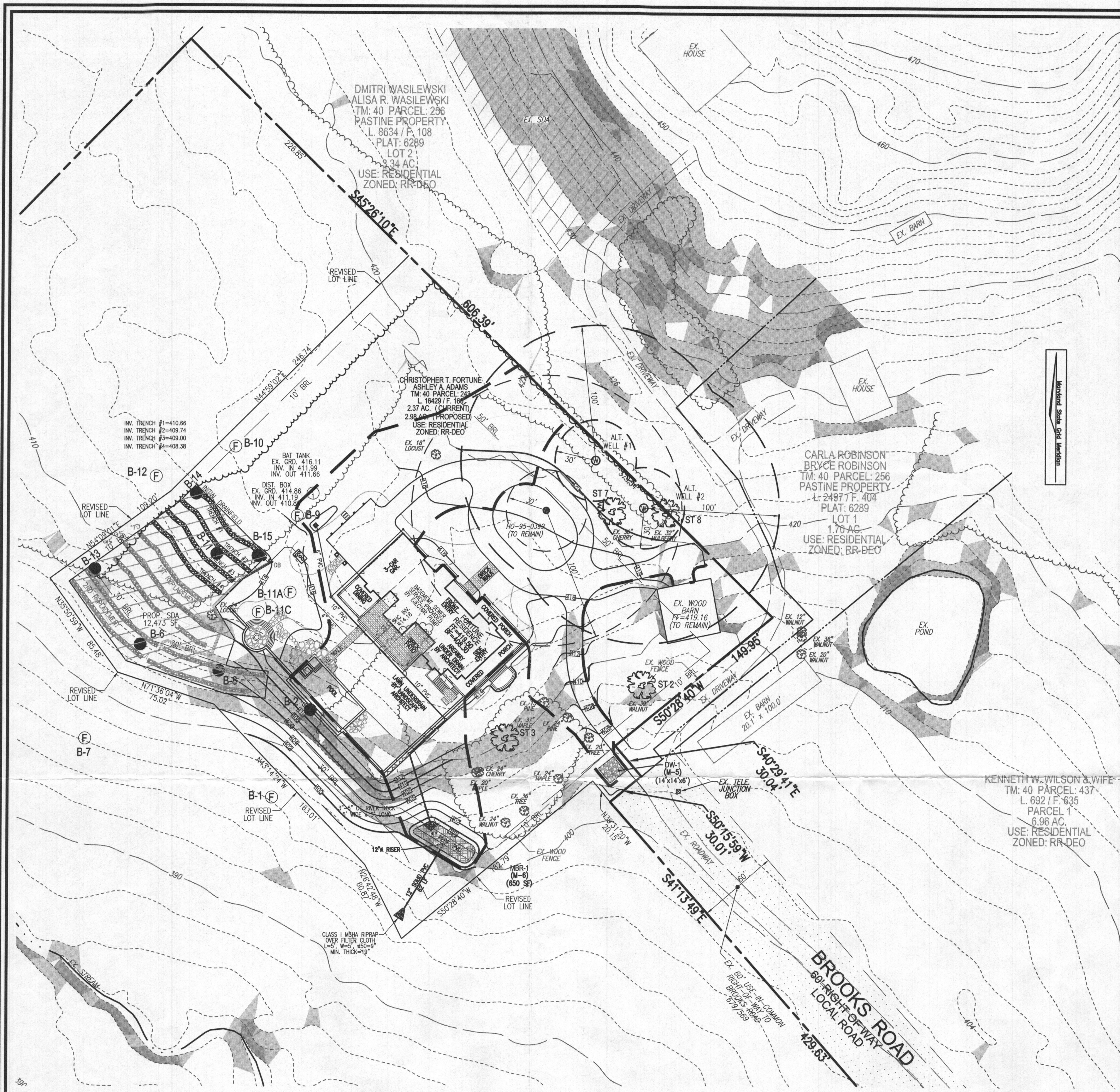
**ROBERT H. VOGEL ENGINEERING, INC.**  
ENGINEERS • SURVEYORS • PLANNERS  
8407 MAIN STREET  
ELLCOTT CITY, MD 21043  
TEL: 410.461.7666  
FAX: 410.461.6961



**PROFESSIONAL CERTIFICATE**

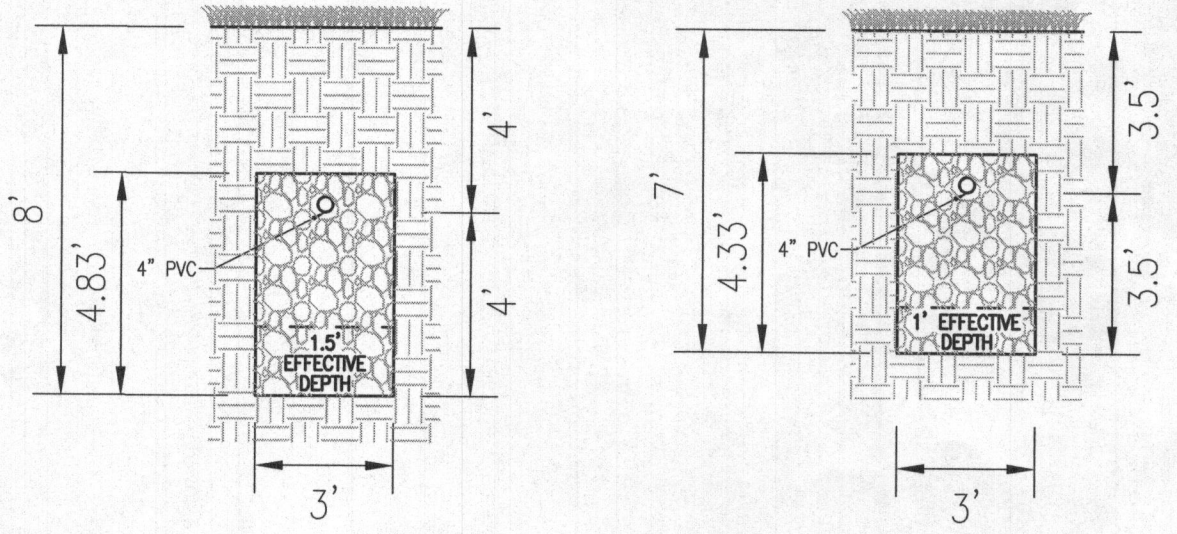
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 18195, EXPIRATION DATE: 09-27-2018.

DESIGN BY: RHW  
DRAWN BY: JMR  
CHECKED BY: RHW  
DATE: SEPTEMBER 2016  
SCALE: AS SHOWN  
W.O. NO.: 14-60



BAT PLAN  
SCALE: 1"=50'

TRENCH INFO				
TRENCH	TRENCH LENGTH	INVERT	INTO BOTTOM OF EXISTING	EXISTING GROUND
1	75'	410.65	105.65	414.65
2	74'	409.74	105.74	413.74
3	72'	409.00	105.00	413.00
4	74'	408.38	104.38	412.38



INITIAL SYSTEM TRENCH DETAIL  
NOT TO SCALE

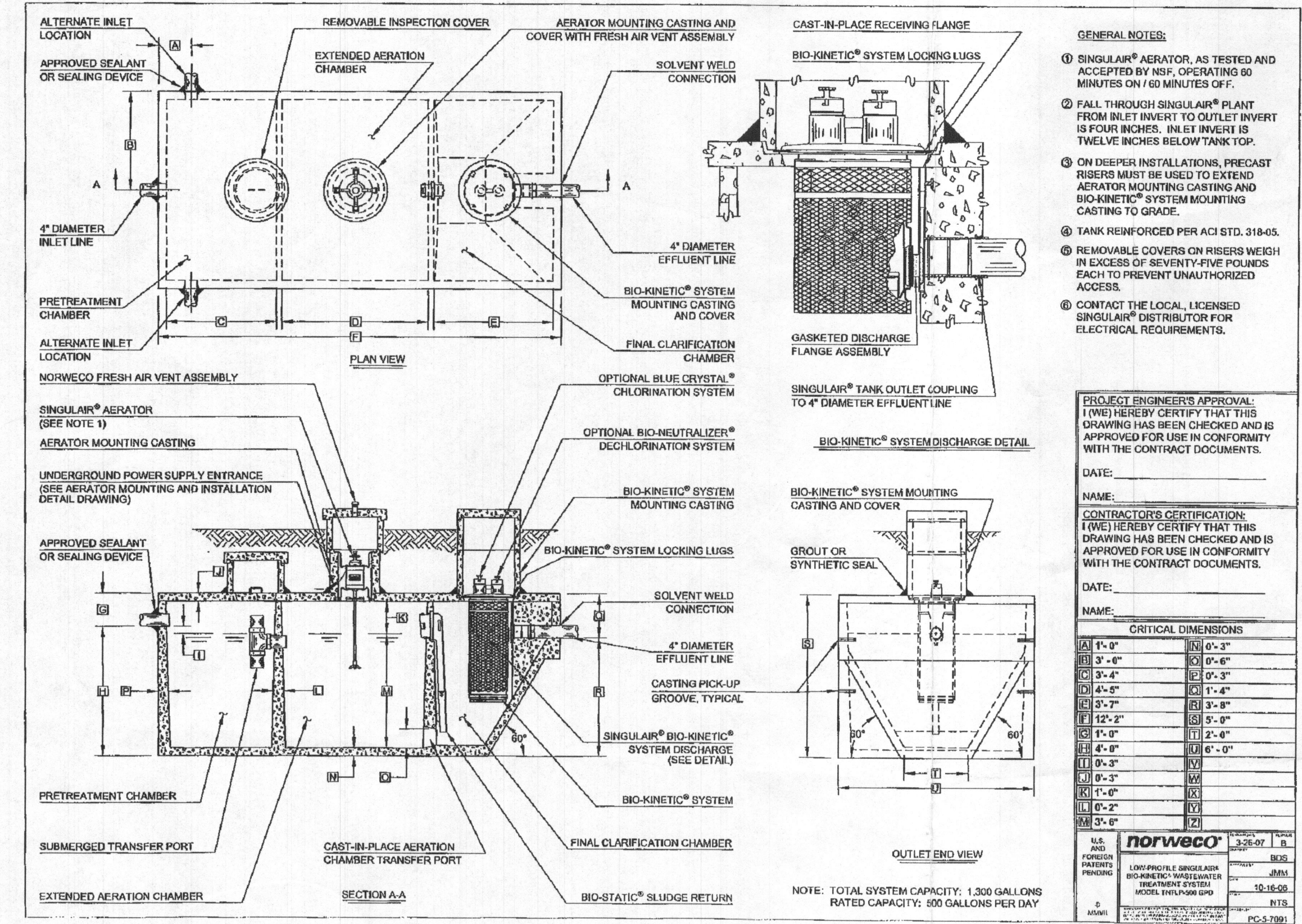
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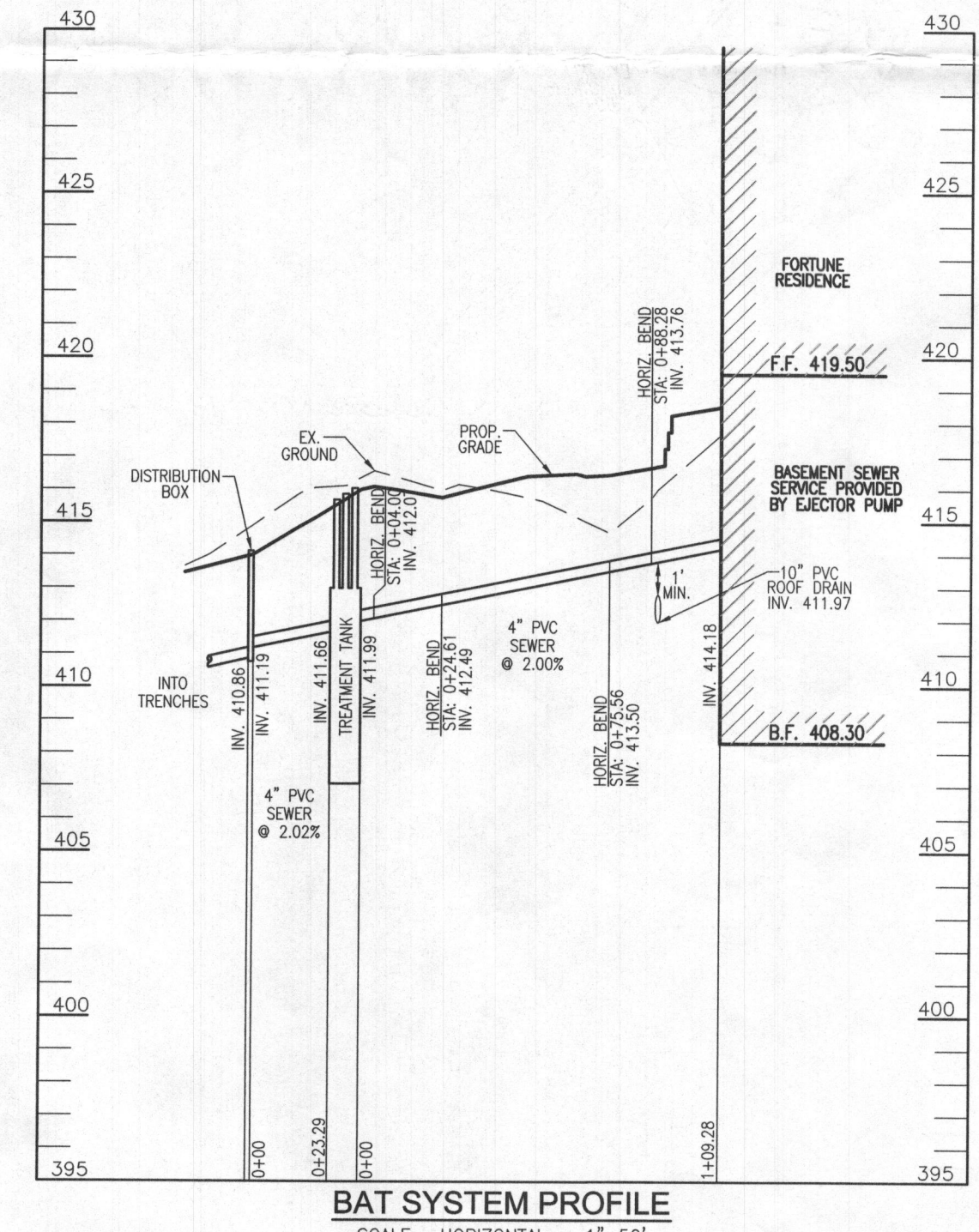
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3) 3'-0"	4) 0'-0"
5) 3'-4"	6) 0'-3"
7) 5'-2"	8) 3'-4"
9) 12'-2"	10) 2'-0"
11) 0'-3"	12) 0'-0"
13) 4'-0"	14) 0'-0"
15) 0'-2"	16) 0'-0"
17) 0'-3"	18) 0'-0"
19) 0'-0"	20) 0'-0"
21) 0'-0"	22) 0'-0"
23) 0'-0"	24) 0'-0"

NOTE: TOTAL SYSTEM CAPACITY: 1,300 GALLONS  
RATED CAPACITY: 600 GALLONS PER DAY



BAT SYSTEM PROFILE  
SCALE: HORIZONTAL - 1"=50'  
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Approved Septic System Plan  
Howard County Health Department  
Signature: *Mark Oswald* Date: 10/3/16

**OWNER**  
CHRISTOPHER T. FORTUNE  
ASHLEY A. ADAMS  
4524 ALPINE ROSE BEND  
ELLICOTT CITY, MD 21042  
410-733-4454

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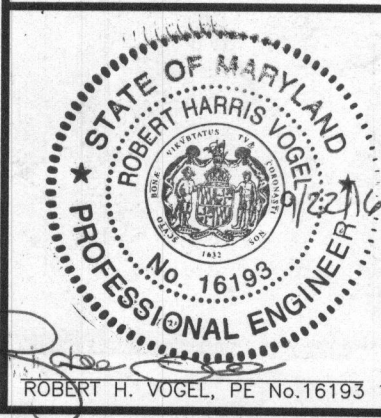
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BUILDING PERMIT # \_\_\_\_\_

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PARCELS: 421 & 243  
HOWARD COUNTY, MARYLAND

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8407 MAIN STREET  
ELLICOTT CITY, MD 21043  
TEL: 410.461.7666  
FAX: 410.461.8961



DESIGN BY: RHV  
DRAWN BY: JMR  
CHECKED BY: RHV  
DATE: SEPTEMBER 2016  
SCALE: AS SHOWN  
W.O. NO.: 14-60

PROFESSIONAL CERTIFICATE  
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. 16193, EXPIRATION DATE 08-27-2018

1 SHEET OF 1