



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_

AP 530034

AGENCY REVIEW: \_\_\_\_\_

DATE 11-15-11

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- ☒ CONSTRUCT NEW SEPTIC SYSTEM(S)  
☐ REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM  
☐ REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- ☐ NEW STRUCTURE(S)  
☐ ADDITION TO AN EXISTING STRUCTURE  
☐ REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- ☒ CREATE NEW LOT(S)  
☐ BUILD ON AN EXISTING LOT IN A SUBDIVISION  
☐ BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- ☐ YES  
☒ NO

THE TYPE OF STRUCTURE IS:

- ☐ RESIDENTIAL WITH 4-5 PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)  
☐ COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)  
☐ INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) GILBERT + ELIZABETH BLEVINS

DAYTIME PHONE 301-854-0587 CELL 443-980-0306 FAX N/A

MAILING ADDRESS 11986 Hall Shop Rd CLARKSVILLE MD 21029  
STREET CITY/TOWN STATE ZIP

APPLICANT WILLIAMSBURG GROUP LLC - BOB CORBETT

DAYTIME PHONE 410-977-3343 CELL 410-977-3343 FAX 410-997-4358

MAILING ADDRESS 5485 HARPER'S FARM Rd #200 COLUMBIA MD 21044  
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME \_\_\_\_\_ LOT NO. 1

PROPERTY ADDRESS 11986 Hall Shop Rd CLARKSVILLE, MD 21029  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 35 GRID 19 PARCEL(S) 0310 PROPOSED LOT SIZE 3 ACRE

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT.

SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

A/P

Lot 1

Hall Shop Rd

1005

1001

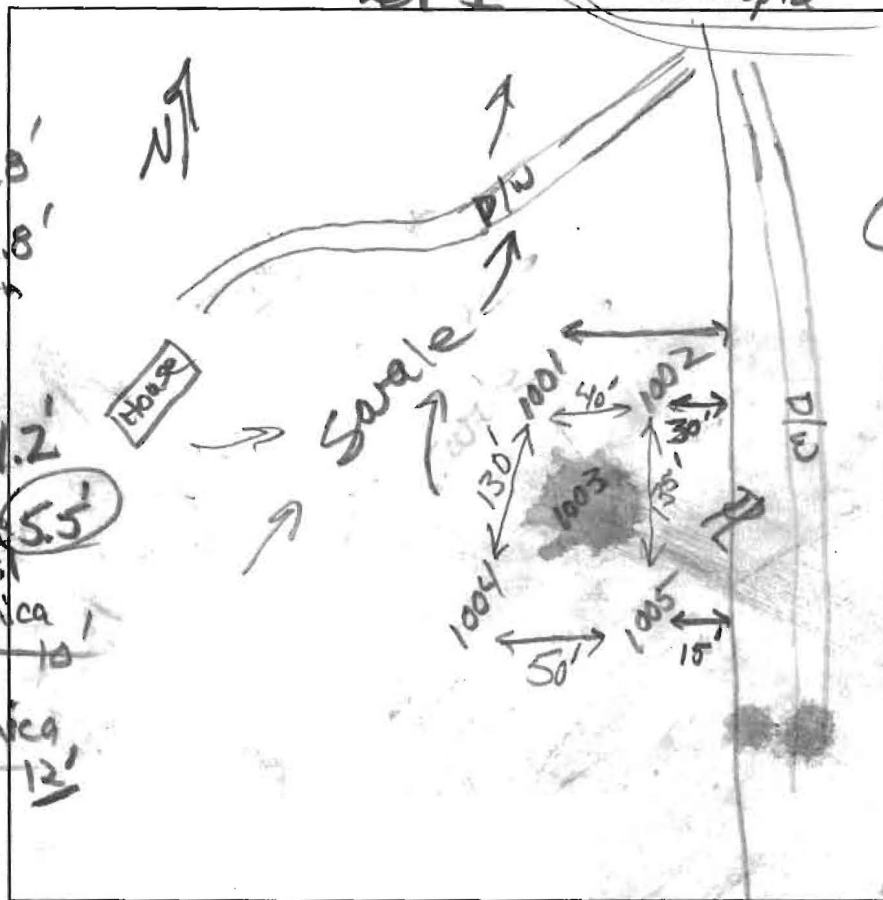
dk grey-brn  
2. vlsbk 0.8'  
yel-brn cl  
1msbk 1.8'  
brn & yel-brn  
cl, 2fslbk  
few gravel  
& stone  
few mica 4.2'  
brn loam  
common mica 5.5'  
red & brn sl  
fm, many mica 10'

red fsl  
many fine mica 12'

1004

dk grey brn  
loam 0.6'  
yel-brn cl  
2.8'  
yel-brn grd  
3.5'  
brn loam  
few mica 4.5'  
yel & red  
loam  
c. fine mica 6.4'

red sl/m. mica  
few gravel 12'



dk grey brn  
yel-brn cl  
few stones  
brn loam

red sl  
many mica

1002

dk grey brn  
loam, 2fsl

0.4' yel-brn cl  
1msbk  
3' brn loam  
4' heavy, fm

brn loam  
yel brn  
stl  
red sl  
many mica

6.5' red sl

12'

1003

dk grey brn  
loam, 2fsl  
0.4' yel brn  
yel-brn  
gel, 1msbk

3' brn loam  
heavy  
c. fine mica

5.5' red  
& yel  
loam  
common mica  
8.2' red sl  
12'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
12/5/11	1001	6' 12"	9:32	9:35	9:40	5	P
12/5/11	1004	6' 2" 12"	10:09	10:17	10:31	14	P
12/5/11	1005	6' 3" 12"	10:30	10:32	10:43	9	P
12/5/11	1002	7' 3" 12"	10:42	10:44	10:51	7	P
12/5/11	1003	8' 12"	10:55	11:07	11:28	21	P

REMARKS #1004: 1.2 sp/sq. ft. at 6' 4"

SANITARIAN RB BACKHOE Mike Johnson OTHERS Bob Corbett

TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH 8' EFFECTIVE S/W \_\_\_\_\_

Signed PC  
original

ND PRIVATE SEWERAGE SYSTEMS,  
MENT.

5/20/02  
DATE

Shown Hereon Are Based On Field Locations  
sion, And Are Correct, To The Best Of My  
elief.

Land Surveyor No. 10763

5/16/02  
Date

LAND DEDICATED TO HOWARD  
COUNTY, MARYLAND FOR THE  
PURPOSE OF A PUBLIC  
ROADWAY.

ChB2

ChA

DENSE TREES

MgC2

NON-BUILDABLE  
PRESERVATION PARCEL 'A'  
1460 4.90 AC.

CgB2

CgB2

ChA

EXISTING  
CENTERLINE  
ROAD

NON-BUILDABLE  
PRESERVATION  
PARCEL 'D'  
2005 AC.  
3012

PROP. FOREBAY  
(2' DEEP)  
(32' x 10')  
PROP. BIG-RETENTION  
FACILITY #2,  
HAZARD CLASS 'A'

FOREST CONSERVATION  
EASEMENT NO.  
259 AC.

PROP. FOREBAY  
(2' DEEP)  
(32' x 10')

MgC2

FOREST C  
EASEM  
LO

25'  
WETLAND  
BUFFER

12" TREE

12"

1250 A

1250 A

1220

1200

USE TREES

DRIVEWAY

3014 Fails



[illegible]



10,502SF±

468 MICRO-BIODETENTION  
FACILITY 1 (M-6)  
PRIVATELY OWNED AND  
JOINTLY MAINTAINED -

INV. IN: 461.10

EX ASPHALT DRIVEWAY

PROP. 6" UNDERDRAIN

PROP.  
18<sup>th</sup> SD 13 LF

SWM-10

ES  
2

TEMPORARY  
PROPOSED  
STOCKPILE

PROP.  
STREET  
LIGHT

FF: 473.50  
B: 463.50  
PROPOSED  
HOUSE

~~New well  
Box~~

EX BGE POLE  
NO. 1/2401  
TO BE RELOCATED  
BY OTHERS

SHOP  
MAJOR COLLECTOR

GbA

Perc. Cert 3/7/2013

well boy  
- NOT Staked

Existing wells could.

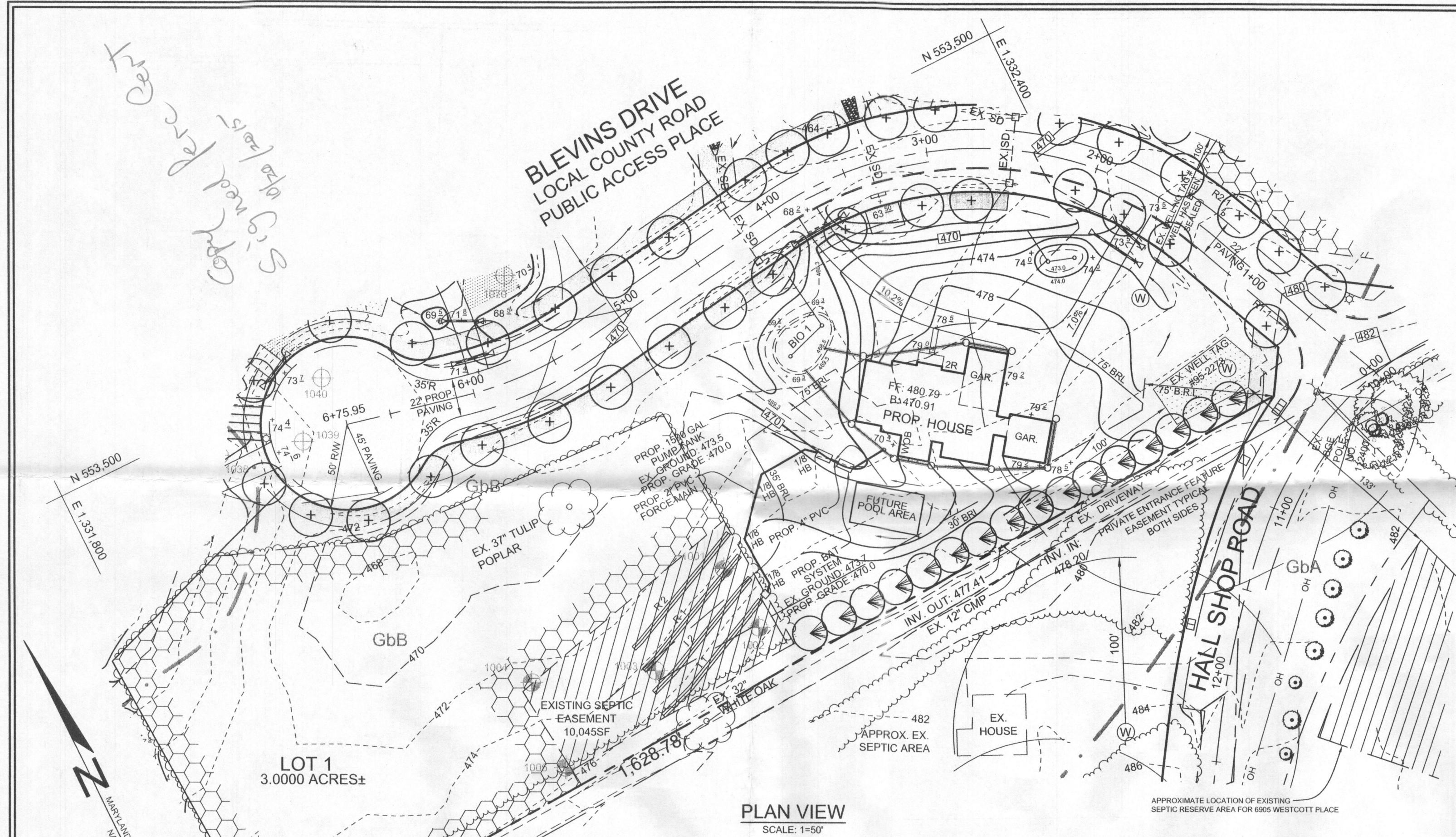
be located in box  
but unsure.  
have new box staked by  
surveyor.

EX. BGE POLE  
NO. 112403  
13400

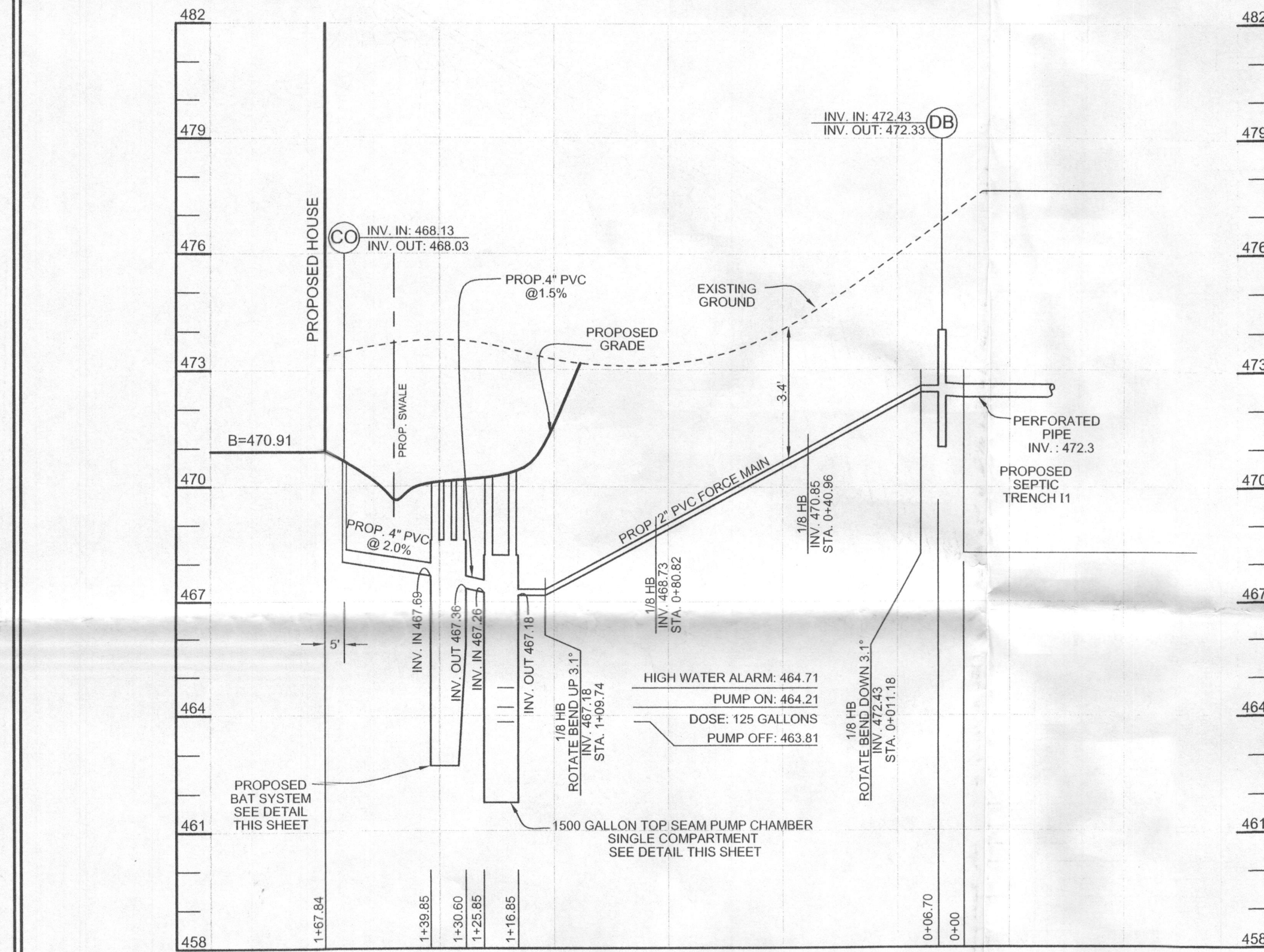
3GE POLE -  
112402







PLAN VIEW  
SCALE: 1"=50'



BAT SYSTEM PROFILE  
SCALE: HORIZ. 1"=30'  
VERT. 1"=3'

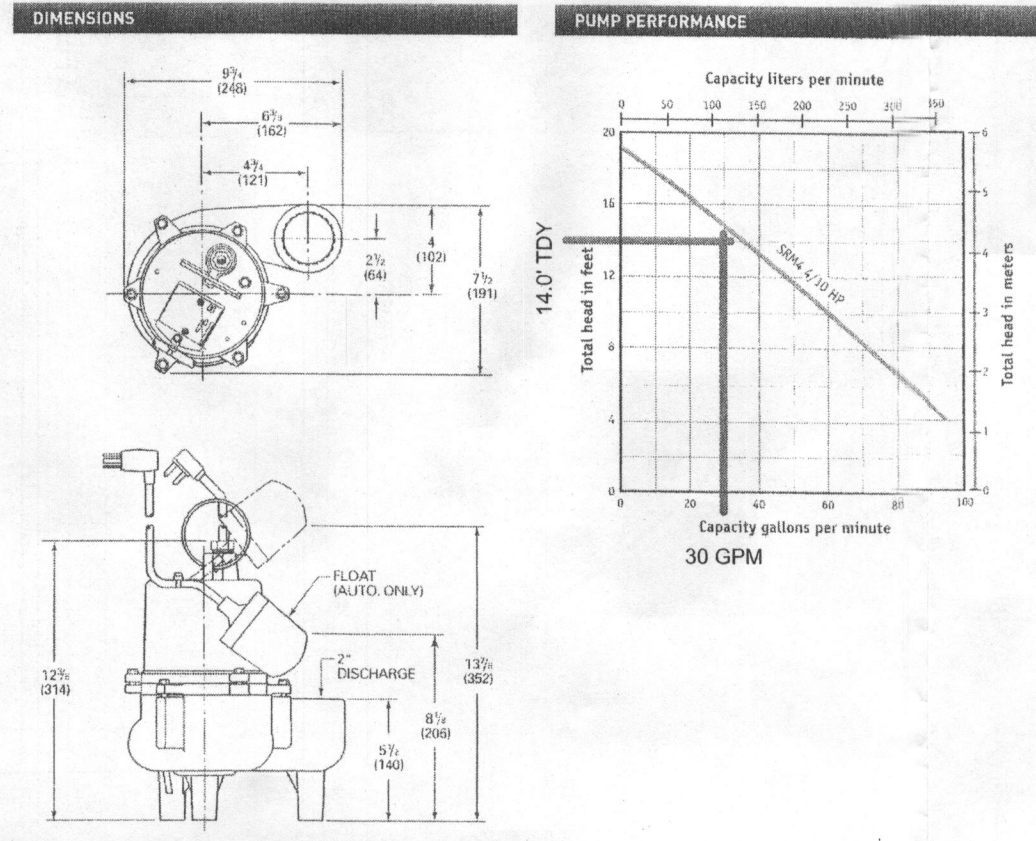
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

*K. J. Miller*  
COUNTY HEALTH OFFICER  
HOWARD COUNTY HEALTH DEPARTMENT

DATE: 10/25/2015

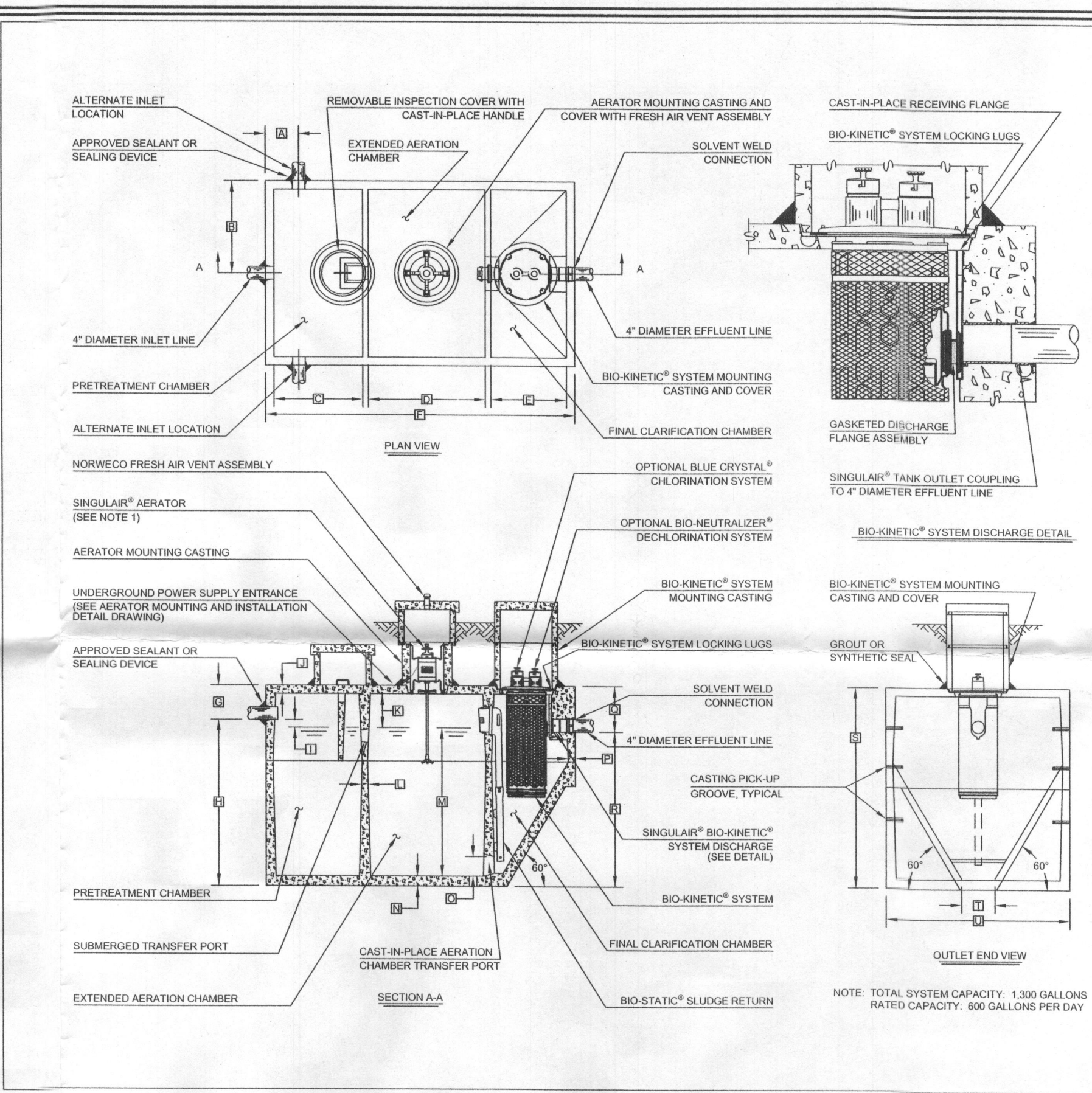
## MYERS® SRM4 SERIES

ORDERING INFORMATION						
Catalog Number	HP	Volts	Phases/Cycles	Amps	Discharge Size	Switch Type
SRM4P-1	1/2	115	1/60	12	2"	Tethered Automatic*
SRM4P-1	1/2	115	1/60	12	2"	Tethered Automatic*
SRM4M-1	1/2	115	1/60	12	2"	Manual
SRM4M-2	1/2	115	1/60	12	2"	Tethered Automatic*
SRM4M-2	1/2	115	1/60	12	2"	Manual
SRM4M-1	1/2	115	1/60	12	2"	Vertical Automatic*
SRM4M-2	1/2	115	1/60	12	2"	Vertical Automatic*



## SEPTIC SYSTEM TRENCH DESIGN SPECIFICATIONS

- INITIAL SYSTEM:
    - APPLICATION RATE: 0.8
    - EFFECTIVE AREA BEGINNING DEPTH: 5.5'
    - BOTTOM MAXIMUM DEPTH: 8'
  - DESIGN FLOW:
    - 5 BEDROOMS AT 150 GPD
    - 5X150 GPD = 750 GPD
  - SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:
    - DESIGN FLOW (750 GPD) / APPLICATION RATE (0.8) = 937.5 SF
  - SIDEWALL REDUCTION CREDIT:
    - TRENCH WIDTH (W) = 3'
    - TRENCH EFFECTIVE DEPTH (D) = 2.5'
    - (W+2) / (W+1+2D) X 100 = 55.6%
  - LINEAR LENGTH OF TRENCH REQUIRED:
    - DRAIN FIELD SQUARE FOOTAGE (937.5) X SIDEWALL REDUCTION CREDIT (55.6%) / TRENCH WIDTH (3') = 173.8'
  - LINEAR LENGTH OF TRENCH PROVIDED = 174'
  - TWO TRENCHES 87 LF EACH
  - EX. GRADE: TRENCH 11: 476.3  
TRENCH 12: 475.2
  - INVERT: TRENCH 11: 472.3  
TRENCH 12: 471.2
- REPLACEMENT SYSTEM:
    - APPLICATION RATE: 0.8
    - EFFECTIVE AREA BEGINNING DEPTH: 5.5'
    - BOTTOM MAXIMUM DEPTH: 8'
  - DESIGN FLOW:
    - 5 BEDROOMS AT 150 GPD
    - 5X150 GPD = 750 GPD
  - SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:
    - DESIGN FLOW (750 GPD) / APPLICATION RATE (0.8) = 937.5 SF
  - SIDEWALL REDUCTION CREDIT:
    - TRENCH WIDTH (W) = 3'
    - TRENCH EFFECTIVE DEPTH (D) = 2.5'
    - (W+2) / (W+1+2D) X 100 = 55.6%
  - LINEAR LENGTH OF TRENCH REQUIRED:
    - DRAIN FIELD SQUARE FOOTAGE (937.5) X SIDEWALL REDUCTION CREDIT (55.6%) / TRENCH WIDTH (3') = 173.8'
  - LINEAR LENGTH OF TRENCH PROVIDED = 174'
  - TWO TRENCHES 87 LF EACH
  - EX. GRADE: TRENCH R1: 474.2  
TRENCH R2: 473.2
  - INVERT: TRENCH R1: 470.2  
TRENCH R2: 469.2



GENERAL NOTES:

- SINGULAR® AERATOR, AS TESTED AND ACCEPTED BY NSF, 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 DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE. INSPECTION COVER OR PRETREATMENT CHAMBER MUST BE DEVELOPED TO WITHIN TWELVE INCHES OF GRADE.
- TANK REINFORCED PER ACI STD. 318.
- 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 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 HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.

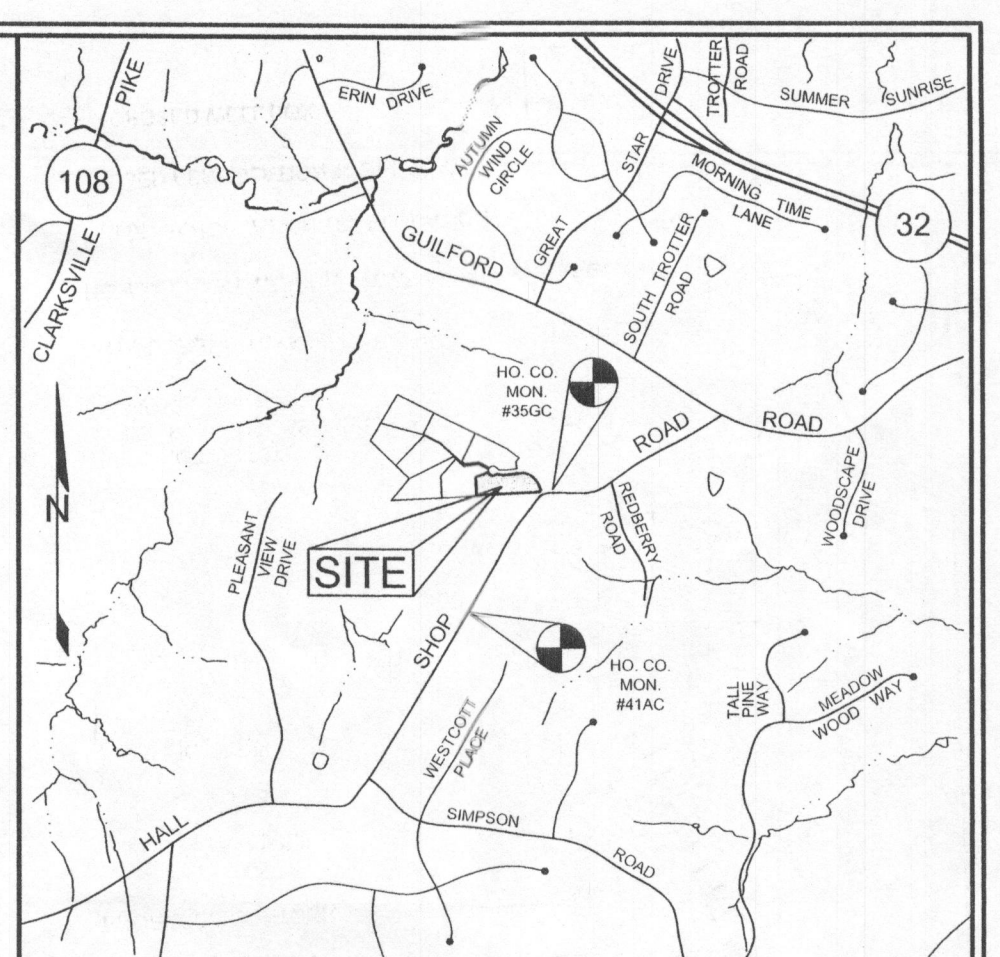
DATE: \_\_\_\_\_

NAME: \_\_\_\_\_

CRITICAL DIMENSIONS

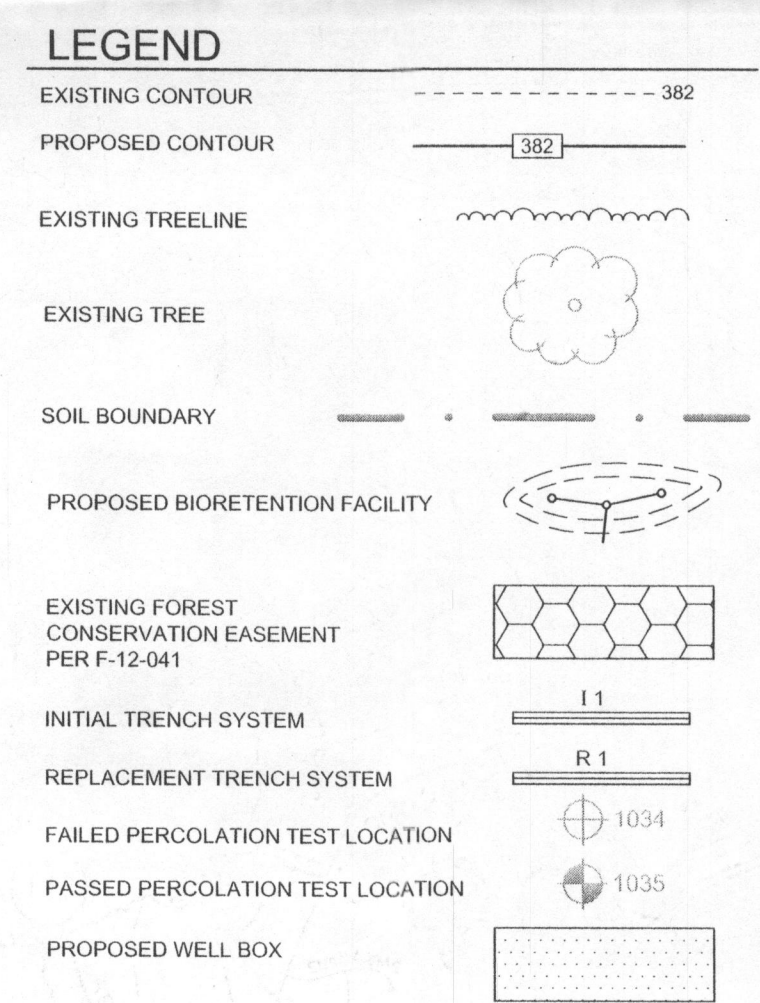
1'-0"	0'-3"
2'-0"	0'-4"
2'-6"	0'-2 1/2"
3'-7"	1'-4"
2'-3"	4'-8"
4'-3"	8'-0"
1'-0"	1'-0"
5'-0"	5'-6"
0'-3"	0'-3"
1'-0"	1'-0"
0'-2"	0'-2"
0'-4"	0'-4"

NOTE: TOTAL SYSTEM CAPACITY: 1,300 GALLONS  
RATED CAPACITY: 800 GALLONS PER DAY



HOWARD COUNTY, MARYLAND ADC MAP 5052 GRID B1

VICINITY MAP  
SCALE: 1"=2000'

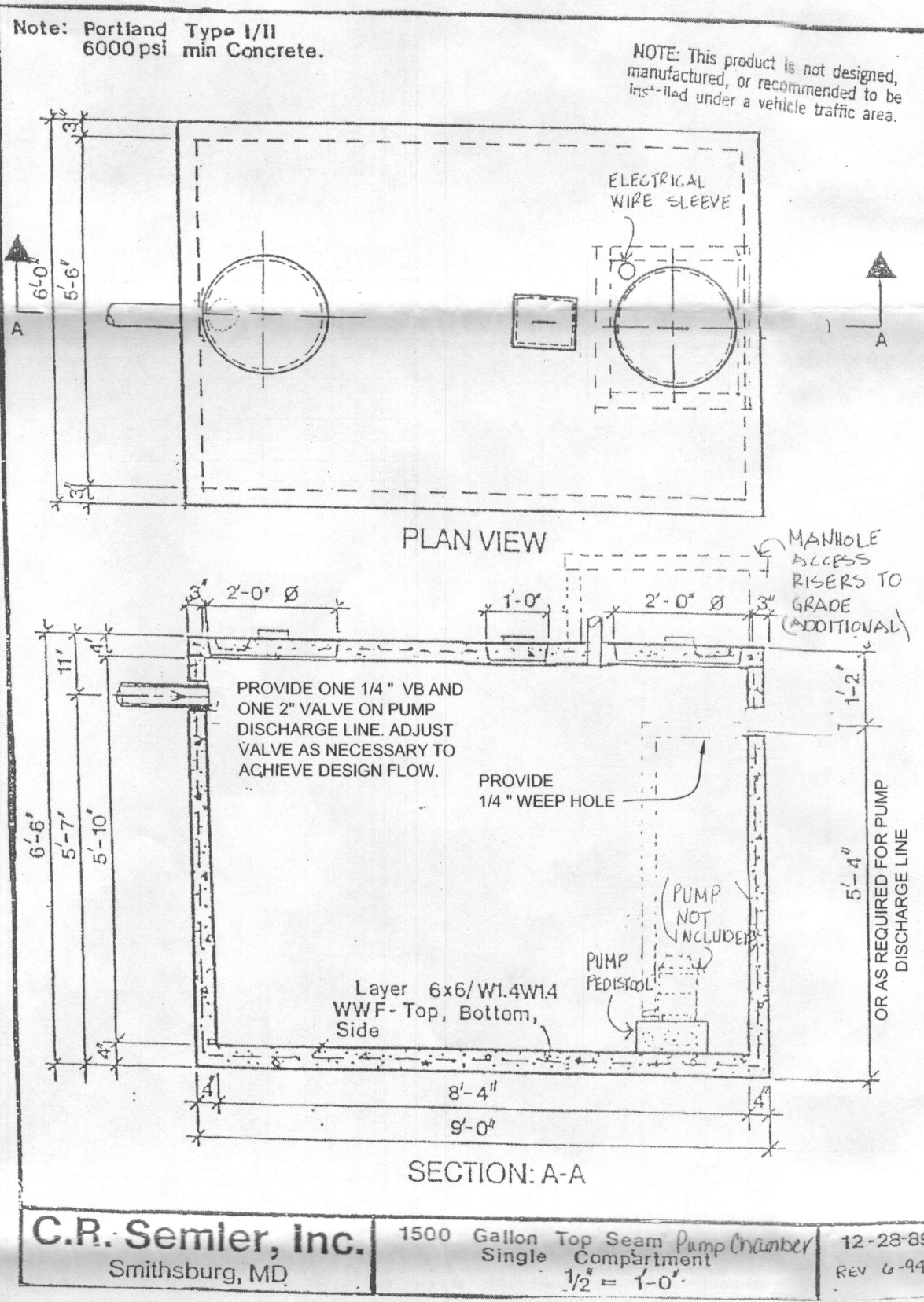


## BAT NOTES

- 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 MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 5 FEET.
- THE BLOWER MAY NOT BE LOCATED MORE THAN 50 FEET 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 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 THE INSTALLATION.
- DOSE TO BE 125 GALLONS ON A PUMP RUN TIME OF 4.2 MINUTES.
- PUMP TO BE A MYERS SRM4 SERIES OR EQUIVALENT.
- BAT SYSTEM TO BE A NORWECO SINGULAR MODEL TNT-500 OR EQUIVALENT.

## PERCOLATION CERTIFICATION NOTES

- SUBJECT PROPERTY IS ZONED RR-DEO PER THE 1006/2013 COMPREHENSIVE ZONING PLAN.
- TOTAL AREA OF PROPERTY: 3.0000 ACRES.
- PRIVATE WATER AND 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. RECONSTRUCTION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
- THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY SILL, ADCOCK & ASSOCIATES, LLC, ON FEBRUARY 27, 2012.
- THE TOPOGRAPHY SHOWN HEREON HAS BEEN FIELD RUN WITH 2' CONTOUR INTERVALS BY SILL, ADCOCK & ASSOCIATES, LLC, ON APRIL 13, 2012. THE EXISTING TOPOGRAPHY SHOWN OUTSIDE THE SITE IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2004.
- PROPERTY ADDRESS: 11005 BLEVINS DRIVE
- THE LOTS SHOWN HEREON COMPLY 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 LOCATED USING AVAILABLE RECORD DRAWINGS OR HAVE BEEN FIELD LOCATED.
- THE PURPOSE OF THIS REVISED PERCOLATION CERTIFICATION PLAN IS TO REVISE THE LOCATION OF THE PROPOSED WELL BOX.



C.R. Semler, Inc.  
Smithsburg, MD

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	K' FACTOR
GbA	GLADSTONE LOAM, 0 TO 3 PERCENT SLOPES	B	0.20
GbB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GbC	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
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.

## OWNER/DEVELOPER

WILLIAMSBURG GROUP  
5485 HARPERS FARM ROAD, SUITE 200  
COLUMBIA, MARYLAND 21044  
410.997.8800

## SITE PLAN FOR BAT INSTALLATION AND REVISED PERCOLATION CERTIFICATION PLAN BLEVINS PROPERTY

LOT 1

TAX MAP 35 GRID 19  
5TH ELECTION DISTRICT

PARCEL 310  
HOWARD COUNTY, MARYLAND

STATE OF MARYLAND  
JULIA M. HILL  
PROFESSIONAL ENGINEER  
No. 3292

SILL  
ENGINEERING  
GROUP, LLC

11130 Dovedale Court, Suite 200  
Marriottsville, Maryland 21104  
Phone: 443.325.5076  
Fax: 410.696.2022  
Email: info@sillengineering.com  
Civil Engineering for Land Development

DESIGN BY: PS  
DRAWN BY: KSZ  
CHECKED BY: PS  
SCALE: AS SHOWN  
DATE: OCTOBER 05, 2015  
PROJECT #: 14-040  
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. 3292, EXPIRATION DATE: JUNE 30, 2015.