



Howard County
Health Department

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

RECÉIPT DATE: 12/10/14

ONSITE SEWAGE DISPOSAL SYSTEM

P 555363

INSTALLATION

APPROVAL DATE: 1/26/2015

**PERMIT
CONSTRUCTION**

A _____

PROPERTY ADDRESS: 11755 Bragdon Wood Drive

SUBDIVISION: Balakirsky Property

LOT: 1

TAX ID: 05-373572

CONTRACTOR: Farm and Home Excavating Inc.

EMAIL: _____

CONTRACTOR ADDRESS: 901 Driver Rd, Marriottsville, MD 21104

PHONE: 410-442-4129

PROPERTY OWNER: Michael Balakirsky

EMAIL: _____

OWNER ADDRESS: 11755 Bragdon Wood Drive, Clarksville, MD 21029

PHONE: 410-340-7823

BAT UNIT MODEL: Ecopod E 60

BAT UNIT SIZE: 1000gpd

PUMP CHAMBER CAPACITY (GALLONS): 1000 ?

PUMP SIZE: _____

NUMBER OF BEDROOMS: 4

HOUSE SQ. FT. _____

APPLICATION RATE: 0.8

DISTRIBUTION SYSTEM: GRAVITY FED

LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>104</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</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:	Install LPD per plan 2 laterals end feed 1.5" x 52.5' dose 27gpm at 10' head - 100g dose.	

ISSUED BY: Jeff Williams

ISSUE DATE: 12/10/14

EXPIRATION DATE: 12/10/15

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.

NOT TO SCALE

See As-Built Drawing
On Separate Sheet

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	3'	5'
NUMBER OF TRENCHES 2		
TOTAL LENGTH 113'		
ABSORPTION AREA 339+Sidewalk		
DISTRIBUTION BOX LEVEL N/A		
DISTRIBUTION BOX BAFFLE N/A		
DISTRIBUTION BOX PORT N/A		

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	Yes
MANUFACTURER	Babylon/Ecopod
CAPACITY	ECON GAL
SEAM LOC	Top
TANK LID DEPTH	12"
BAFFLES	Yes
BAFFLE FILTER	Yes
MANHOLE LOC	Front/Back
6" PORT LOC	center
WATERTIGHT TEST	No
SLOTTED	Yes
DATE ON LID	N/A

PUMP/SEPTIC TANK LEVEL

PUMP/SEPTIC TANK LEVEL	Yes
MANUFACTURER	Babylon
CAPACITY	1000 GAL
SEAM LOC	Top
TANK LID DEPTH	0.5-1'
BAFFLES	No
BAFFLE FILTER	No
MANHOLE LOC	Front/Back
6" PORT LOC	none
WATERTIGHT TEST	No
SLOTTED	No
DATE ON LID	11-9-11

PRE-CONSTRUCTION:

12/19/14 Tanks were set prior to my arrival. Layout not given. SEA staked per plan. Told contractor that both laterals must be staked per plan. Call when staked so layout can be confirmed. Due to office closing, contractor OK to install trenches. Final inspection includes pla test to be scheduled (yes)

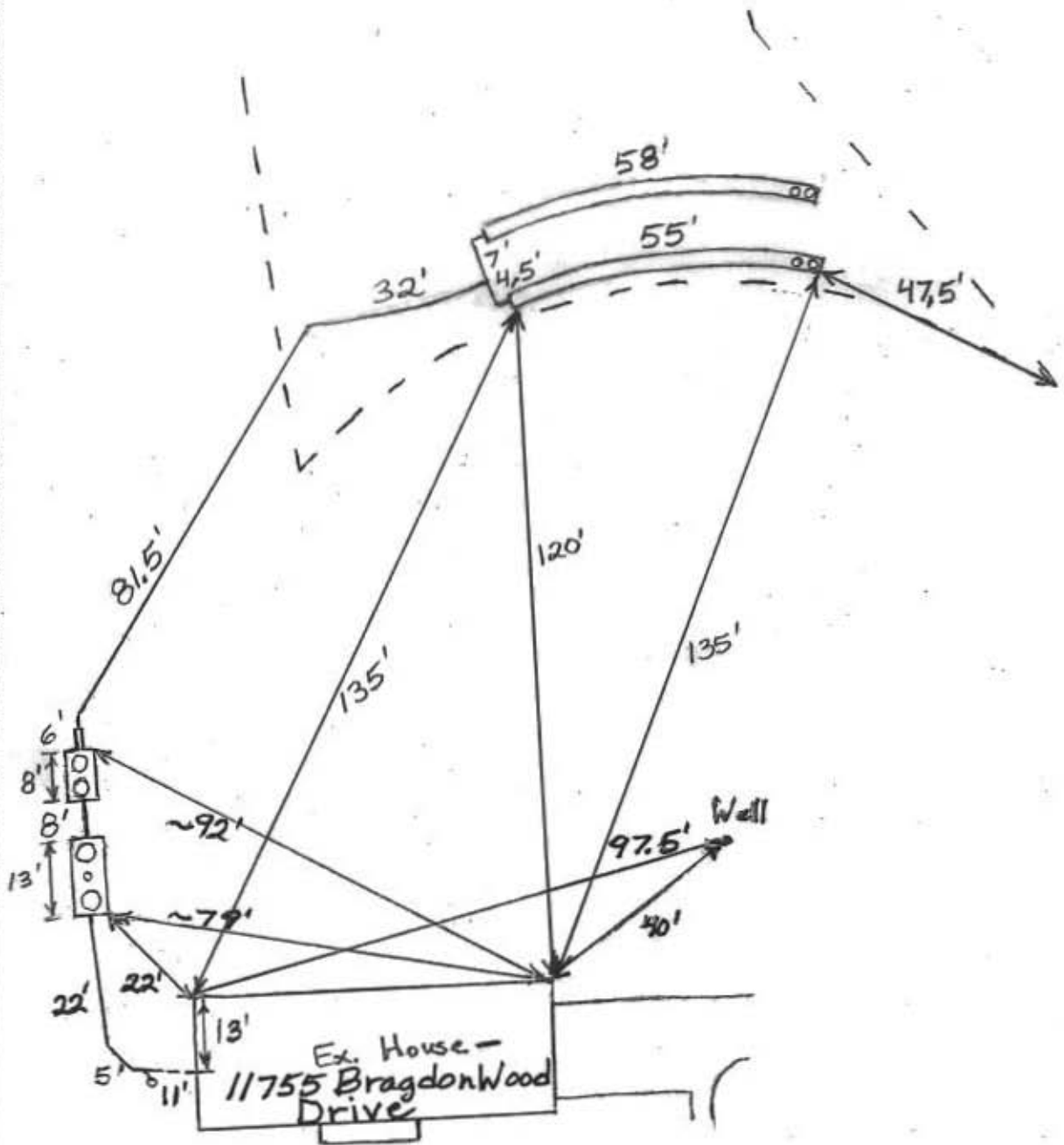
12/22/2014 Cannot install trenches as staked because very large tree is in the way. Contour is terrible/unlevel. To install trenches on top of opposite side of easement. Force main installed. (B)

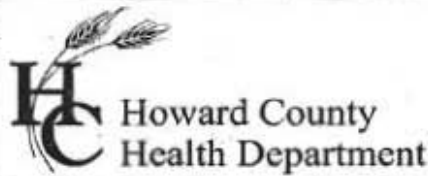
12/23/2014 Laterals tested before covering. Around 2.5' of head in top turn-up. Need to do final pump and alarm test. Need Ecopod certification from Babylon inspector. (B)

1/26/2015 Called Bill Ingram (Farm and Home). He said that the pump and alarm were working correctly and that the alarm was on its own circuit breaker. Received BAT approval notification. (B)

FINAL INSPECTOR B. Baker DATE OF APPROVAL 1/26/2015

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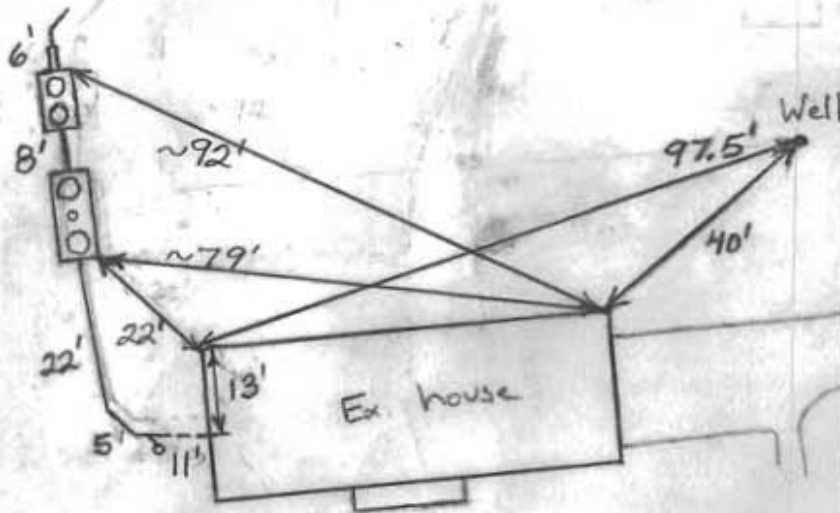
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NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3'	5'
NUMBER OF TRENCHES		2
TOTAL LENGTH		113'
ABSORPTION AREA		339 + Sidewall
DISTRIBUTION BOX LEVEL		N/A
DISTRIBUTION BOX BAFFLE		N/A
DISTRIBUTION BOX PORT		N/A

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	Yes
MANUFACTURER	Babylon/Ecopod
CAPACITY	600 GAL
SEAM LOC	Top
TANK LID DEPTH	12'
BAFFLES	Yes
BAFFLE FILTER	Yes
MANHOLE LOC	Front/Back
6" PORT LOC	center
WATERTIGHT TEST	No
SLOTTED	Yes
DATE ON LID	N/A
PUMP/SEPTIC TANK LEVEL	
Yes	
MANUFACTURER	Babylon
CAPACITY	1000 GAL
SEAM LOC	Top
TANK LID DEPTH	0.5'-1'
BAFFLES	No
BAFFLE FILTER	No
MANHOLE LOC	Front/Back
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FINAL INSPECTOR

B. Baker

DATE OF APPROVAL

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Z ↖



HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
3430 Courthouse Drive ■ Ellicott City, Maryland 21043 ■ 410-313-2350

Marsha S. McLaughlin, Director

www.howardcountymd.gov
FAX 410-313-3391
TDD 410-313-2323

TEMPORARY USE CASE 14-009

Michael Balakirsky

To: Department of Recreations and Parks
Department of Inspections, Licenses and Permits
Bureau of Environmental Health
Department of Fire and Rescue Services
Development Engineering Division

From: Division of Public Service and Zoning Administration

Date: November 13, 2014

Attached is the application for the temporary use referenced above as permitted under Section 132.0 of the Howard County Zoning Regulations. This Section allows approval of a temporary use by the Director of the Department of Planning and Zoning, provided the following determinations are made:

1. The use will not adversely affect vicinal properties.
2. The use does not require significant or permanent changes to the existing topography, vegetation, structures or other features of the site.

A public hearing on the application is scheduled for **December 2, 2014**. Please submit any advisory comments or applicable requirements your agency has on the application by November 24, 2014. If you have any questions, please contact me at extension 2350.

Attachment



Department of Planning and Zoning

Temporary Use Petition

DPZ Office Use only:

Case No. TU 14-009

Date Filed 10/29/14

1. Temporary Use Request

Description of Proposed Use The original existing structure to be preserved AS IS until new lots recordation. The Property is vacant and will stay vacant. The preservation of the property (delay of demolition) is requested to meet Lienholder (Bank)requirements to secure collateral until new lots are recorded (Active Project F08-121)

2. Petitioner's Name Michael Balakirsky

Address 11755 Bragdon Wood, Clarksville MD 21029

Phone No. (W) 410-3407823 (H) 410-7301481

Email Address kopiy98@gmail.com

3. Counsel for Petitioner

Counsel's Phone No.

Email Address

4. Property Identification

Address of Subject Property 5626 Oakland Mills Rd.

Total Acreage of Property 1.36

Property Location Columbia MD 21045

Election District Zoning District

Tax Map # 0036 Block# Parcel/Lot # 0002

Subdivision Name (if applicable)

5. Petitioner's Interest in Subject Property

[X] Owner (including joint ownership) [] Other (describe and give name and address of owner) Owner

If the Petitioner is not the owner of the subject property, documentation from the owner authorizing the petition must accompany this petition.

OCT 29 2014

6. Description of Temporary Use

Please respond in detail to all of the following items applicable to the proposed use. Pages may be attached to this application if additional space is needed.

- a. Dates of operation n/a
- b. Daily hours of operation n/a
- c. Is this Temporary Use proposed to recur annually under the same conditions, at the same location and at approximately the same dates of operation? Yes/No (circle one)
- d. Description of temporary structures or other improvements to be installed on subject property existing structure-single house. No extra/new structures to be installed.
- e. Potential number of employees/staff on site at one time none
- f. Potential number of customers/visitors on site at one time none
- g. Description of parking facilities, including the number of parking spaces on site; number and location of off-site parking spaces available for use; surface material of parking areas existing driveway
- h. Description of outdoor lighting to be used, including intensity and type of existing or proposed lighting fixtures no change to existing lighting
- i. Potential noise levels and sources of noise generated by proposed use; proposed noise mitigation measures none

7. Temporary Use Plan

All plans must be folded to approximately 8 1/2 x 14 inches. The plan must be drawn to scale and must include the items listed below:

- (a) Distances to property lines

- (b) Size of property
- (c) North arrow
- (d) Scale of plan
- (e) Tax map, parcel and lot number of subject property
- (f) Existing and proposed uses, structures, parking spaces, driveways, and points of access on the subject property
- (g) Location of well and private sewerage easement, if applicable
- (h) Floor area and height of structures, setback distances, and other numerical values necessary for examination of the petition
- (i) Any other information necessary for full and proper consideration of the petition

8. Materials, Fees, Posting and Advertising

- a. **Original and six (6) copies of this petition**, all supplemental pages or reports, and the required plans must be submitted.
- b. The undersigned agrees to pay all costs in accordance with the current schedule of fees. The fee is **\$100.00 plus \$25.00 for a poster**. The undersigned also agrees to properly post the property at least 15 days immediately prior to the hearing, to maintain the posters as required, and to submit an affidavit of posting at the time of the hearing.

9. Signatures

The undersigned hereby affirms that all of the statements and information contained in, or filed with, this petition are true and correct.

The undersigned has read the instructions on this form, filing herewith all of the required accompanying information.



Signature of Petitioner

Signature of Attorney

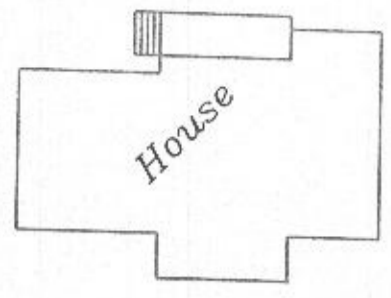
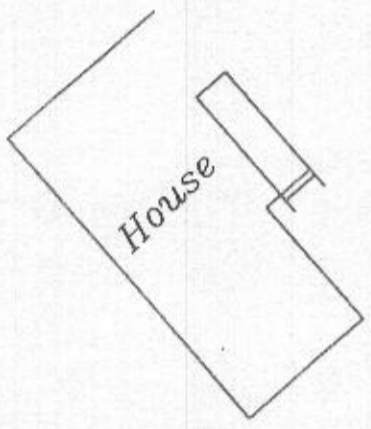
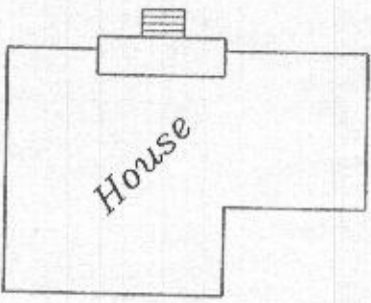
For DPZ office use only:

Hearing fee: \$ _____
 Poster fee: \$ _____
 Total: \$ _____
 Receipt No. _____

(Make checks payable to the "Director of Finance")

County Website: www.howardcountymd.gov

NOTE: No appointment is needed to submit this application and payment of fees is not due until a hearing date is set and you are notified.

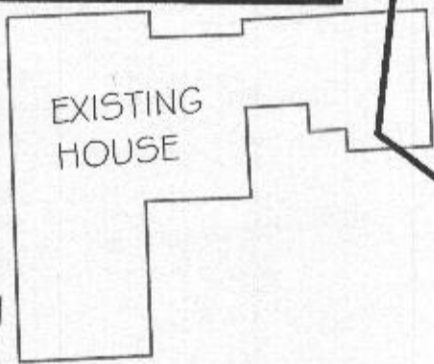


LOT 7

LOT 5

EX. POOL
FILLED IN

WELL □



LOT 6



3300 North Ridge Road, Suite 160
Ellicott City, MD 21043
Website: www.sillengineering.com

Office: 443-325-7682
Fax: 443-325-7685
Email: info@sillengineering.com

Civil Engineering for Land Development

SILL ENGINEERING GROUP, LLC

Balakirsky Property

Lot 1

11755 Bragdon Wood

Plot Plan Low Pressure Dosing System Report

Approved Septic System Plan
Howard County Health Department


Signature

12/10/14
Date

November 21, 2014

Prepared For:

Shanaberger & Lane
8726 Town & Country Boulevard
Ellicott City, Maryland 21043



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. 32025, Expiration Date: June 20, 2015

Project #14-045

Balakirsky Property
Lot 1
11755 Bragdon Wood
November 21, 2014

Pressure Network Design

- Design Flow: 600 gpd
- The absorption beds in the Initial System are each 52.5' long and the distribution network is an End Feed Network.
- For Perforation Size, Number, and Spacing see Pressure Distribution table.
- Diameter of lateral = 1.5"
- Spacing between laterals = 13'
- Number of laterals = 2
- Diameter of force main = 2.0"
- Diameter of manifold = 2.0"
- Material: Schedule 40 PVC

Septic System Trench Design Specifications

- Initial System And Replacements:
 - Application Rate: 1.2
 - Effective Area Beginning Depth: 3'
 - Bottom Maximum Depth: 5'
- Design Flow:
 - 4 Bedrooms at 150 gpd
 - $4 \times 150 \text{ gpd} = 600 \text{ gpd}$
- Square Footage of Drain field Required:
 - Design Flow (600 gpd) / Application Rate (1.2) = 500 sf
- Sidewall Reduction Credit:
 - Trench Width (W) = 3'
 - Trench Effective Depth (D) = 2'
 - $(W+2) / (W+1+2D) \times 100 = 62.5\%$
- Linear Length of Trench Required:
 - Drain field Square Footage (500) x Sidewall Reduction Credit (62.5%) / Trench Width (3') = 105'
- Linear Length of Trench Provided = 105
 - Two trenches 52.5 lf each

Pumping System Design

- Dose Calculations:
 - Design Flow: 600 gpd
 - Length of force main and manifold
 - 2.0" force main = 86.1'
 - 2.0" manifold = 13.0'
 - Volume of force main:
 - $86.1' \times 17.4 \text{ gallons per } 100' = 15.0 \text{ gallons}$

- Volume of manifold:
 - $28.0' \times 17.4$ gallons per 100' = 4.9 gallons
- Length of 1.5" laterals: $52.5' \times 2 = 105.0'$
- Volume of laterals:
 - $105.0' \times 10.6$ gallons per 100' = 11.1 gallons
- Minimum dose is the greater of:
 - Volume of force main and manifold + (5 x Volume of the laterals):
 $15.0 + 4.9$ gallons + (5 x 11.1 gallons) = 75.4 gallons
 - Or
 - $1/6^{\text{th}}$ the design flow:
 - $1/6 \times 600$ gallons = 100.0 gallons

Use 100 gallons for dose

- Pump Design:
 - Pump flow required: 27 gpm (see Pressure Distribution table for initial system)
 - Dose amount: 100 gallons
 - Pump run time: 3.7 minutes
 - Static head (see Pump Chamber detail): 3.9' use 4.0'
 - Friction head calculation (Table 4.3):

Pipe size	1.5"	2.0"
1/4 Bend (90°)	-	2 @ 7.0' = 14.0'
1/8 Bend (45°)	-	1 @ 4.0' = 4.0'
1/16 Bend (22.5°)	-	1 @ 2.0' = 2.0'
1/32 Bend (11.25°)	-	-
Gate Valve	-	1 @ 1.3' = 1.3'
Standard Tee	-	-
Run Tee	-	1 @ 2.0' = 2.0'
Cross	-	-
Reducer	-	2 @ 1.4' = 2.8'
Couplings	7 @ 1.5' = 10.5'	6 @ 2.0' = 12.0'
Total Equivalent Length of pipe	10.5'	38.1'

- Flow at 2.0" pipe = 27 gpm
 - Friction loss per 100' (Table 4.4) of 2.0" schedule 40 plastic pipe: 1.28
 - Total equivalent length of 2.0" FM, manifold and appurtenances =
 $86.1' + 13.0' + 38.1' = 137.2'$
 - Friction loss in 2.0" pipe = $137.2'/100 \times 1.28 = 1.8'$
- Flow at 1.5" pipe = 13.5 gpm
 - Friction loss per 100' (Table 4.4) of 1.5" schedule 40 plastic pipe: 1.25
 - Total equivalent length of 1.5" laterals and appurtenances = $120' + 10.5' = 130.5'$
 - Friction loss in 1.5" pipe = $130.5'/100 \times 1.25 = 1.6'$
- Total Friction Head = 3.4'

Balakirsky Property
Lot 1
11755 Bragdon Wood
November 21, 2014

- Total Dynamic Head = Static head + Distal Head + Friction head
- $4.0' + 2.0' + 3.4' = 9.4'$ use 10'

- Pump Chamber Design:

- For pump tank dimensions and detail, see plans.
- Pump chamber elevations (assumes maximum 3.0' of cover over tank):

 - Proposed grade at top of tank (at inlet): 424.8

 - Top of pump tank: 421.90

 - Pump chamber invert in: 421.07

 - High Water Alarm: 419.03

 - Pump On: 418.53

 - Pump Off: 418.15

 - Bottom slab of tank: 416.65

- Pump Chamber volumes:

 - Invert In to Pump On: 89.26 cf or 668 gallons

 - Pump On to Pump Off: 13.29 cf or 100 gallons

- Design based on:

 - Ecopod-N Series E60-N or equivalent

 - Meyers SRM4 series pump or equivalent

PRESSURE DISTRIBUTION
Balakirsky Property Lot 1
11755 Bragdon Wood

Lateral No.	Ex. Grd Elev. (ft)	Invert Elev. (ft)	Trench Bottom Elev. (ft)	Lateral Length (ft)	Head (ft)	Orifice Diameter (in)	Orifice Flow Rate (gpm)	Orifice Spacing (ft)	Number of Orifices	Trench Flow Rate (gpm)	Zone
1	415.9	412.9	410.9	52.5	2.0	5/16	1.63	6.6	8	13.04	Initial
2	414.0	411.0	409.0	52.5	3.9	5/16	2.30	8.8	6	13.80	

TOTALS

105

26.84
Use 27 gpm

Invert depth = 3
Trench depth = 5

52.8



4.4, 2.0, 2.0, 2.0, 2.0, 2.0, 4.4

52.8

MYERS® SRM4 SERIES

The Myers SRM4 series residential sewage pumps are considered by industry pros to be extremely reliable. The specially designed recessed impeller allows 2" solids to easily pass through without jamming. The cast iron housing and volute case handle the harshest conditions and will provide years of service. Automatic and manual operation models available.

APPLICATIONS

Sewage, high-capacity sump, effluent

SPECIFICATIONS

Capacities - 95 GPM [360 LPM]
Shut-off Head - 19' [5.8 m]
Solids Handling - 2" [50.8 mm]
Liquids Handling - Septic effluent and sewage
Intermittent Liquid Temperature - Up to 140°F [60°C]
Motor/Electrical Data - 4/10 HP, permanent split capacitor type, 115V, 12A, 1Ø, 60Hz; 230V, 6A, 1Ø, 60Hz
Acceptable pH Range - 5-9
Discharge, NPT - 2" [50.8 mm]
Housing - Heavy cast iron
Power Cord - 10' [20' optional]
Impeller - Recessed, thermoplastic
Volute Case - Cast iron
Shaft Seal - Type 11A, carbon and ceramic



FEATURES

Versatile Applications

Effective and efficient performance in septic tank sewage, effluent and high-capacity sump applications.

Handles the Heat

High-endurance, oil-cooled motor for continuous bearing lubrication and critical heat dissipation.

Powerful Torque

High-torque, permanent split capacitor (PSC) motor; no starting switches or relays to wear out.

Motor Protection

Long-life carbon/ceramic seal provides extra protection against water leaks.

Excess Heat Detection

Internal heat sensor provides overload protection; automatically resets when motor cools to a safe operating temperature.

Free-flow Design

Recessed impeller design also improves the free flow of solids up to 2".

Longer Bearing Life

Recessed impeller reduces radial bearing loads, increasing bearing life.

Automatic and Manual

Automatic tethered or vertical switch models (with piggyback plug), or manual operation models.

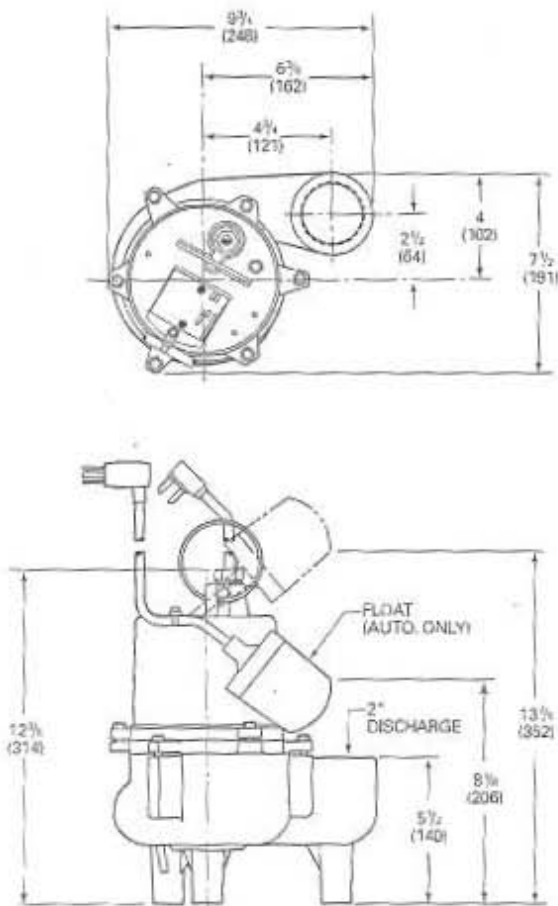
MYERS® SRM4 SERIES

ORDERING INFORMATION

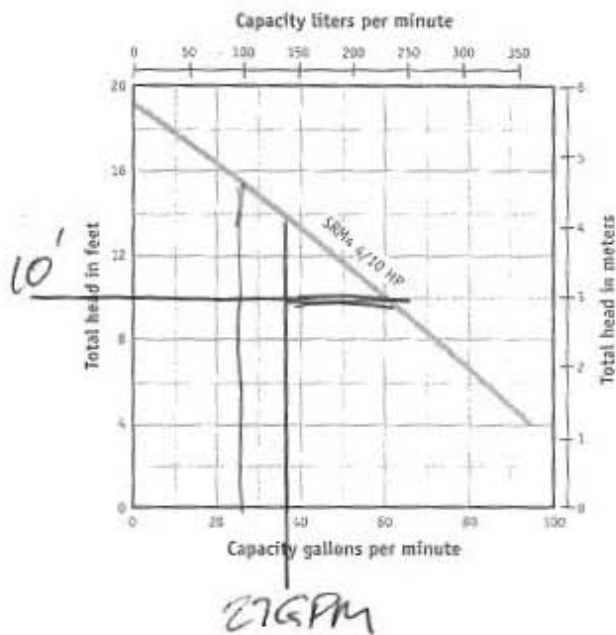
Catalog Number	HP	Volts	Phase/Cycles	Amps	Discharge Size	Switch Type	Cord Length	Approx. Wt. Lbs.
SRM4P-1	4/10	115	1/60	12	2"	Tethered Automatic*	10'	40
SRM4PC-1	4/10	115	1/60	12	2"	Tethered Automatic*	20'	40
SRM4M1C	4/10	115	1/60	12	2"	Manual	20'	37
SRM4PC-2	4/10	230	1/60	6	2"	Tethered Automatic*	20'	40
SRM4M2C	4/10	230	1/60	6	2"	Manual	20'	39
SRM4V-1	4/10	115	1/60	12	2"	Vertical Automatic*	20'	40
SRM4V-2	4/10	230	1/60	6	2"	Vertical Automatic*	20'	40

*Piggyback

DIMENSIONS



PUMP PERFORMANCE



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: BALAKIRSKY
Reference/Control #: 73

=====
LR - Agreement Surcharge
1x 40.00 40.00

=====
SubTotal: 60.00
Total: 60.00
=====

=====
REV-Cash 100.00
Change 40.00

=====
12/10/2014 14:31 CC13-ES
#3628803 /1247/109

Thank you for visiting us today



Bureau of Environmental Health
8930 Stanford Boulevard, Columbia, MD 21045
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 10th day of December, among MICHAEL BALAKIRSKY, 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 11755 BAASDON WOOD, CLARKVILLE MD 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 14885 Folio 154.

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. The pre-treatment device being installed is Ecopod E-60

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 the County.

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

Recording Fee 20.00
Grantor/Grantee Name: BALAKIRSKY
Reference/Control #: 73
LR - Agreement
Subcharge 40.00
SubTotal: 60.00
Total: 60.00
12/10/2014 02:32
CC13-ES
202883 CC0503 -
Howard Co
Columbia/CC05.03.08 -
Register 08

20
40
55



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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 10th day of December, among Michael BAIKIRSKY, 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 11755 BAYDON WOOD, (AER) WILKINSON 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 14885 Folio 154.

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. The pre-treatment device being installed is Ecoped E-60.

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.


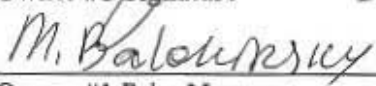
H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

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.

 12/10/14
Howard County Health Department

 12/10/14
Owner #1 Signature Date

Owner #1 Print Name

Owner#2 Signature Date

Owner #2 Print Name

Buyer #1 Signature Date

Buyer #2 Signature Date

Buyer #1 Print Name

Buyer #2 Print Name

MEMBER N. C. B. V. A.

MEMBER P. C. B. V. A.

Babylon

VAULT

SINCE 1930

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>12/19/14</u>	Serial Number: <u>E100ND2225CA</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 thereafter.
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 thereafter.
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:

11755 Bragdon Woods Drive
Clarksville, MD 21029

DISTRIBUTOR:

Babylon Vault Co
925 Wakefield Valley Rd
New Windsor MD 21776

INSTALLER:

Farm + Home Excavating Inc.
901 Driver Road
Marrlottsville, MD 21104

SERVICE COMPANY:

Babylon Vault Co
Service Operators License Number: Justin King C.M.

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

Witness: _____

e3 Environmental LLC

302-723-0706 www.e3onsite.com

ECOPOD-N Completion Statement

Installation Information

Owners Name		# of Bedrooms / GPD	600
Street	11755 Bragdon Wood Dr.	Repair	<input type="checkbox"/>
City	Clarksville	New Construction	<input checked="" type="checkbox"/>
State	Maryland		
Zip	21029		

Installation Company

Company	Farm & Home Excavating Inc	Installed Date	12/19/14
Certified Installer		Startup Date	1/13/15
Street	901 Driver Road		
City	Marriottsville		
State	MD		
Zip	21104		

ECOPOD-N

Model #	Serial #
E50 <input type="checkbox"/>	
E60 <input checked="" type="checkbox"/>	E60N 02225CA
E75 <input type="checkbox"/>	
E100 <input type="checkbox"/>	
E150 <input type="checkbox"/>	

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

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 Koontz
Printed Name Steven R Koontz

Date 1/13/15



Office of the Health Officer
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www.hchealth.org
Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

TO: Shanaberger and Lane
8726 Town and Country Blvd.
C/O Scott Schanaberger
Via e-mail: lhome@shanlane.com

FROM: Dana Bernard, REHS/RS
Well and Septic Program
Development Coordination Section

RE: 11755 Bragdonwood
BAT Plan

DATE: October 31, 2014

The following comments apply to the plan prepared by Landesign Inc, Engineers, Surveyors, and Planners. Applicant is advised to revise and resubmit.

BAT Plan

- ✦ Include the locations of all BAT components on the site plan. If you are proposing to use the Eco-pod BAT unit, all components must be shown on plan. Blower is not shown. *SHOWN ON BOTH SHEETS*
- ✦ Show the location of the initial absorption system and a replacement with perforated pipe elevations. *✓ SHOWN ON BOTH SHEETS*
- ✦ Trenches must be of equal length. Trench calculations must be shown on plan. *SHEET 1*
- ✦ BAT notes must be included. *✓ SHEET 1*
- ✦ Include a profile drawing with all invert elevations necessary for installation. *✓ SHEET 2*
- ✦ If you are proposing to use the Eco-pod BAT unit, all components must be shown on plan. Blower is not shown. *✓ SHOWN ON BOTH SHEETS*
- ✦ Existing septic easement must show trench and tank to be abandoned. *COMPONENTS SHOWN ON BOTH SHEETS*
- ✦ The existing well and the proposed well symbols must be shown in the legend. *SHEET 1*
- ✦ The existing water vault must be abandoned and documentation must be sent to the Howard County Health Department. *✓ -*

I have included information regarding our BAT requirements. Please try and fit all BAT information on one page. If you have any questions or correspondence, I can be reached at the above address or by telephone at (410) 313-2775.

Sincerely,

Dana Bernard, REHS/RS
Environmental Specialist II
Bureau of Environmental Health,
Phone (410) 313-2775

Michael

Balaklesky

kopi798@gmail.com

410-3407823

SEPTIC SPECIFICATIONS WORKSHEET

Subdivision Hinkson Property A 544517
 Street Name 11755 Bragdonwood Lot Number 01
 Average Percolation Rate (min./in.) 5 min./inch Application Rate (GPD/sq. ft.) 1.2
 Number of Bedrooms 4 Design Flow (#BRx150) = 4 x 150 = 600
 Square Footage (of House) ± 3900 Septic Tank Capacity (gal.) 2000
 Sidewall Credit / % Reduction 2 feet / .62 % Total Length of Trench (ft.) 103.33

***All Septic/Pump tanks must be top seamed unless otherwise approved by this agency.**

***All Septic tanks must be compartmented unless otherwise approved by this agency.**

Baffle Filter Required? Yes No

TRENCH DIMENSIONS: Trench to 3 feet wide. Inlet is at 3 feet below original grade with 2 feet of stone below the distribution pipe. Bottom maximum depth is 5 feet below original grade. Effective sidewall begins at 3 feet below original grade. Maintain at least 9 feet spacing between trenches.

$$\frac{4 \times 150}{0.8 \times 3} = 500 = 166.66 \times 0.62 = 133.33$$

PUMP SYSTEM PROPOSED? YES NO

Pump system details: gallon pump chamber

Note 1: Septic pump detail to be provided by installer prior to issuance of septic permit.

Note 2: Pump performance test required prior to Health Department approval of pumped septic system.

LOCATION:

1. Set septic tank per layout inspection.
2. Set distribution box per layout inspection.
3. Install 133.33 feet of trench on contour.

ADDITIONAL NOTES Do not order the septic tank until after layout inspection and Sanitarian approval. Stake septic easement corners. Call for layout inspection. Mark utilities. Gravel tickets must be available for Environmental Sanitarians. Stone must be approved by the Howard County Health Department. A written variance request is required for tanks deeper than 3 feet. A traffic bearing lid is required for tanks deeper than 4 feet. The water vault on lot #1 must be abandoned along with the septic system prior to building permit issuance. The best available technology must be used along with low pressure dosing as a condition of the variance approval.

Reviewed by: Dana Bernard

Date: 06/17/13

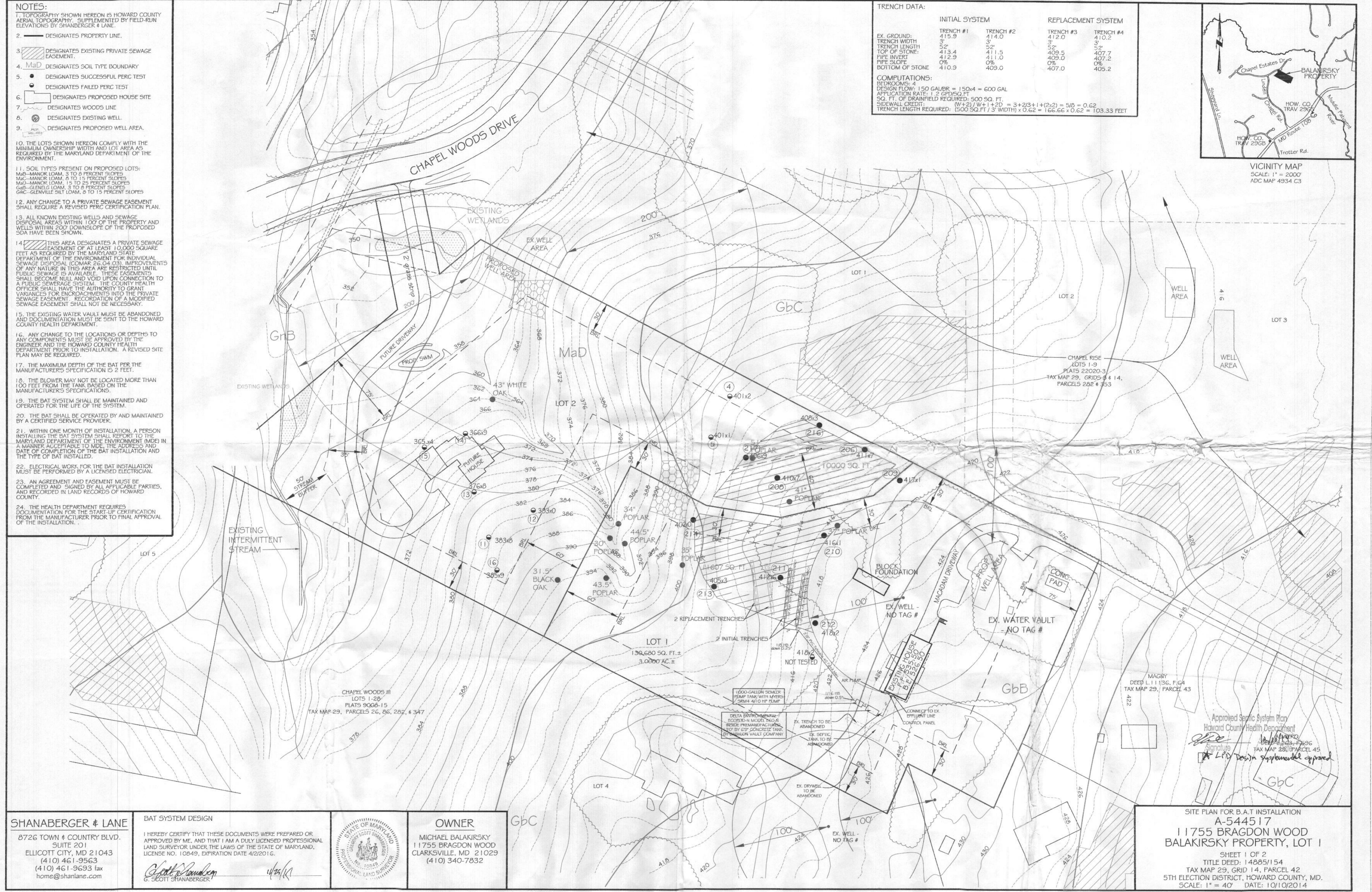
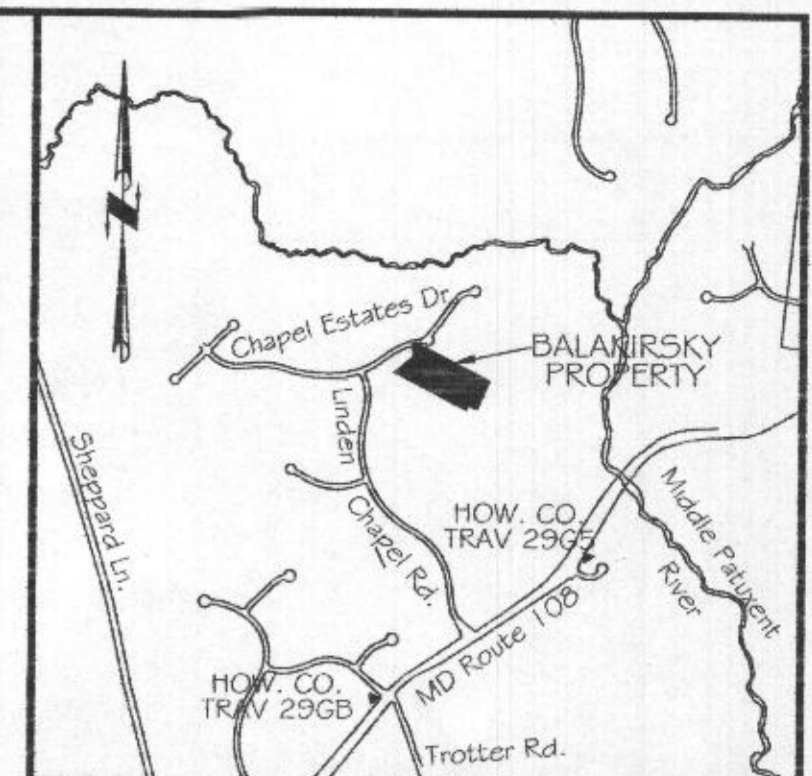
NOTES:

- TOPOGRAPHY SHOWN HEREON IS HOWARD COUNTY AERIAL TOPOGRAPHY, SUPPLEMENTED BY FIELD-RUN ELEVATIONS BY SHANBERGER & LANE.
- DESIGNATES PROPERTY LINE.
- DESIGNATES EXISTING PRIVATE SEWAGE EASEMENT.
- MaD DESIGNATES SOIL TYPE BOUNDARY.
- DESIGNATES SUCCESSFUL PERC TEST
- DESIGNATES FAILED PERC TEST
- DESIGNATES PROPOSED HOUSE SITE
- DESIGNATES WOODS LINE
- DESIGNATES EXISTING WELL.
- DESIGNATES PROPOSED WELL AREA.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- SOIL TYPES PRESENT ON PROPOSED LOTS:
 MaB-MANOR LOAM, 3 TO 8 PERCENT SLOPES
 MaC-MANOR LOAM, 8 TO 15 PERCENT SLOPES
 MaD-MANOR LOAM, 15 TO 25 PERCENT SLOPES
 GbB-GLENVILLE LOAM, 3 TO 6 PERCENT SLOPES
 GbC-GLENVILLE SILT LOAM, 8 TO 15 PERCENT SLOPES
- ANY CHANGE TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
- ALL KNOWN EXISTING WELLS AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND WELLS WITHIN 200' DOWNSLOPE OF THE PROPOSED SDA HAVE BEEN SHOWN.
- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET 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 SEWAGE 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 VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
- THE EXISTING WATER VAULT MUST BE ABANDONED AND DOCUMENTATION MUST BE SENT TO THE HOWARD COUNTY HEALTH DEPARTMENT.
- 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 2 FEET.
- THE BLOWER MAY NOT BE LOCATED MORE THAN 100 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.

TRENCH DATA:

	INITIAL SYSTEM		REPLACEMENT SYSTEM	
	TRENCH #1	TRENCH #2	TRENCH #3	TRENCH #4
EX. GROUND:	415.9	414.0	412.0	410.2
TRENCH WIDTH:	3'	3'	3'	3'
TRENCH LENGTH:	52'	52'	409.5	407.7
TOP OF STONE:	413.4	411.5	409.0	407.2
PIPE INVERT:	412.9	411.0	408.5	406.7
PIPE SLOPE:	0%	0%	0%	0%
BOTTOM OF STONE:	410.3	409.0	407.0	405.2

COMPUTATIONS:
 BEDROOMS: 4
 DESIGN FLOW: 150 GALER = 150x4 = 600 GAL
 APPLICATION RATE: 1.2 GPD/SQ.FT.
 SQ. FT. OF DRAINFIELD REQUIRED: 500 SQ. FT.
 SIDEWALL CREDIT: $(W+2)/W+1+2D = 3+2/3+1+(2x2) = 5/3 = 0.62$
 TRENCH LENGTH REQUIRED: $(500 \text{ SQ.FT.} / 3' \text{ WIDTH}) \times 0.62 = 166.66 \times 0.62 = 103.33 \text{ FEET}$



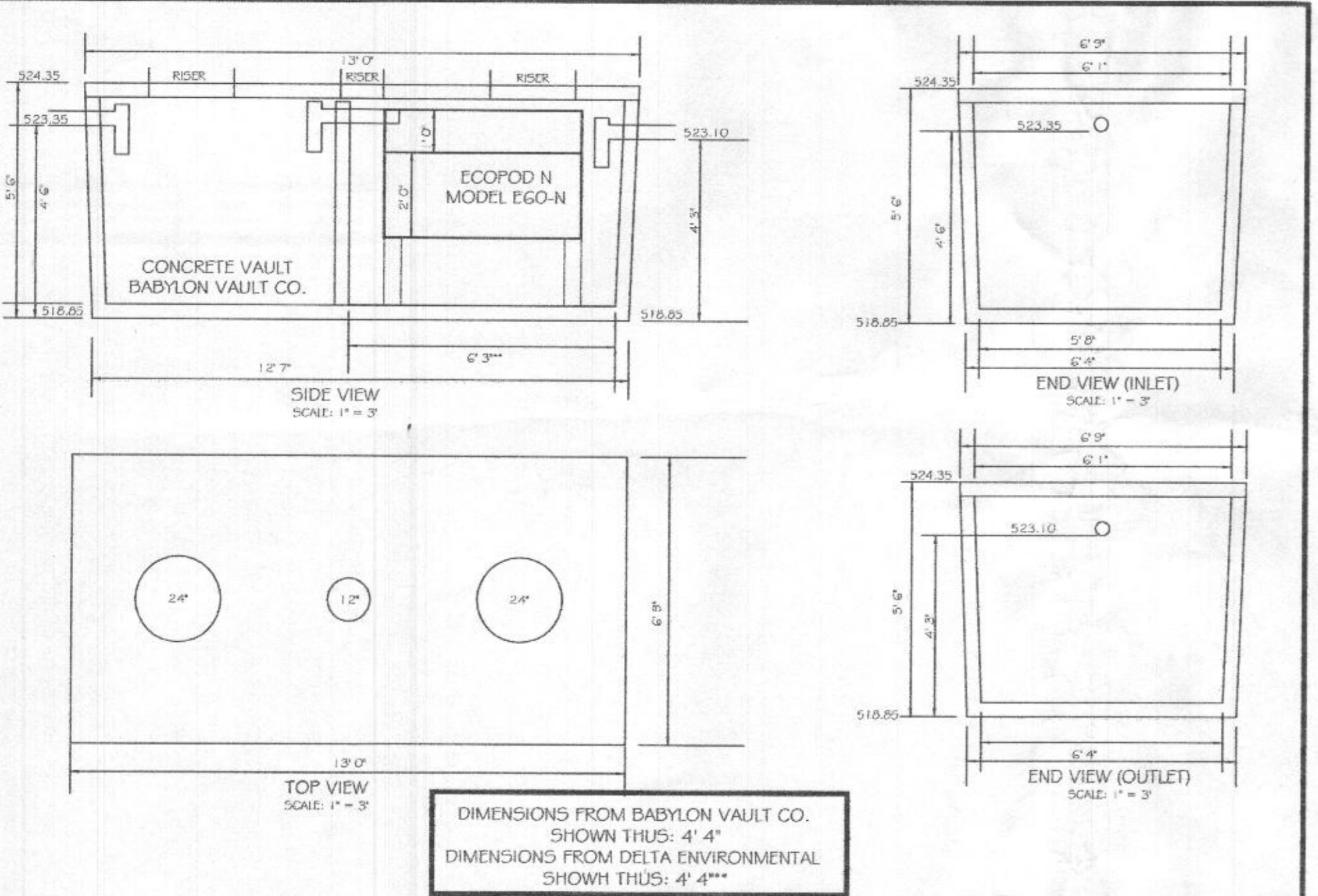
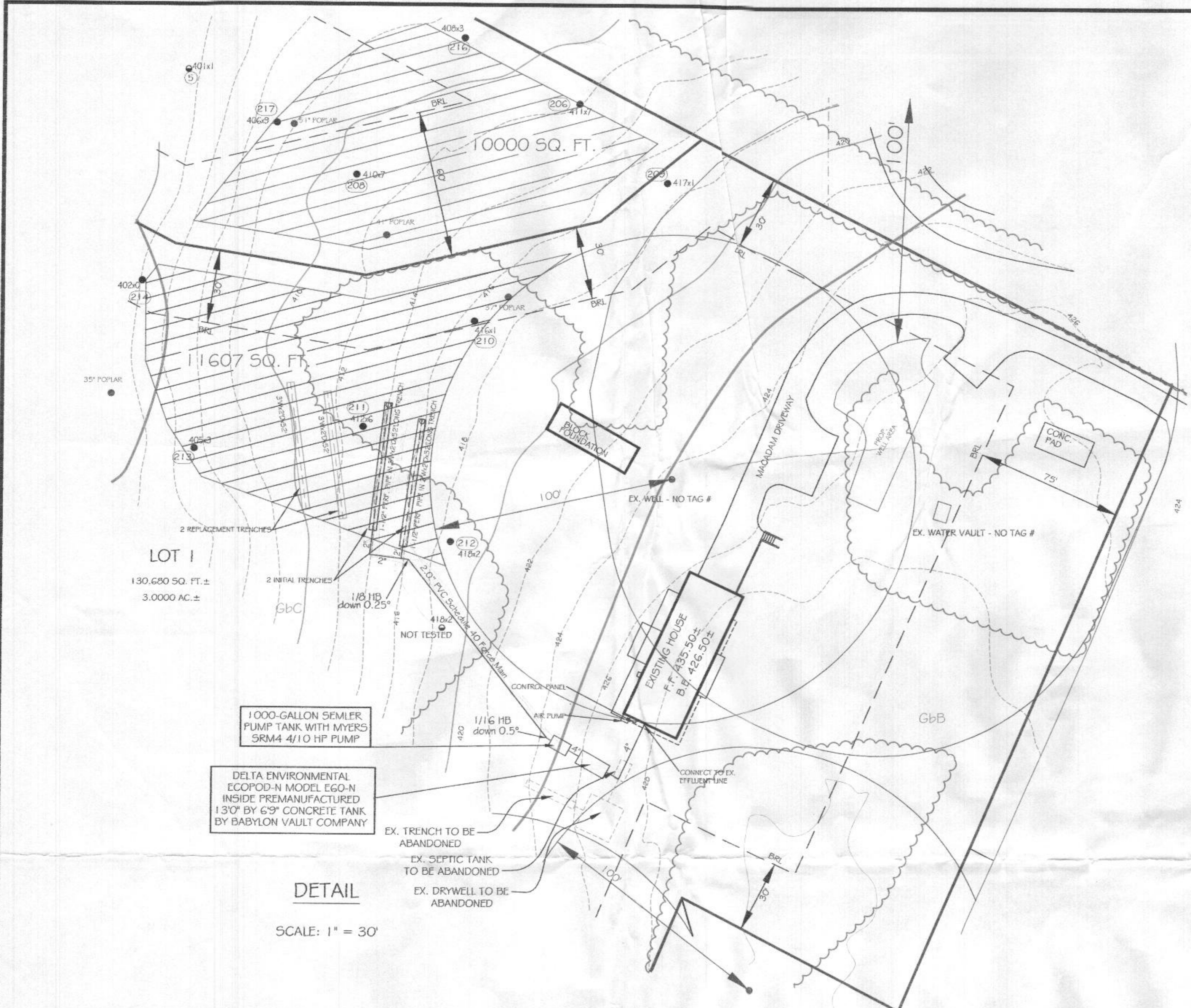
SHANBERGER & LANE
 8726 TOWN & COUNTRY BLVD.
 SUITE 201
 ELLICOTT CITY, MD 21043
 (410) 461-9563
 (410) 461-9693 fax
 home@shanlane.com

BAT SYSTEM DESIGN
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 10849, EXPIRATION DATE 4/2/2016.
 G. SCOTT SHANBERGER



OWNER
 MICHAEL BALAKIRSKY
 11755 BRAGDON WOOD
 CLARKSVILLE, MD 21029
 (410) 340-7832

SITE PLAN FOR B.A.T. INSTALLATION
A-544517
 11755 BRAGDON WOOD
 BALAKIRSKY PROPERTY, LOT 1
 SHEET 1 OF 2
 TITLE DEED: 14885/154
 TAX MAP 29, GRID 14, PARCEL 42
 5TH ELECTION DISTRICT, HOWARD COUNTY, MD.
 SCALE: 1" = 40' DATE: 10/10/2014



SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 201
ELLCOTT CITY, MD 21043
(410) 461-9563
(410) 461-9693 fax
home@shanlane.com

BAT SYSTEM DESIGN

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 10649, EXPIRATION DATE 4/22/2016.

G. Scott Shanabarger
G. SCOTT SHANABARGER



LOW-PRESSURE DOSAGE SYSTEM DESIGN BY

SILL ENGINEERING GROUP, LLC
3300 North Ridge Road, Suite 160
Ellicott City, Maryland 21043
Phone: 443.325.7682
Fax: 443.325.7685
Email: info@sillengineering.com
Civil Engineering for Land Development

STATE OF MARYLAND
PROFESSIONAL ENGINEER
No. 32025

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. 32025, EXPIRATION DATE: JUNE 20, 2015

RESIDENTIAL SEWAGE PUMP
MYERS® SRM4 SERIES

The Myers® SRM4 series residential sewage pumps are considered by industry pros to be extremely reliable. The specially designed recessed impeller allows 2" solids to easily pass through without jamming. The cast iron housing and volute case handle the harshest conditions and will provide years of service. Automatic and manual operation models available.

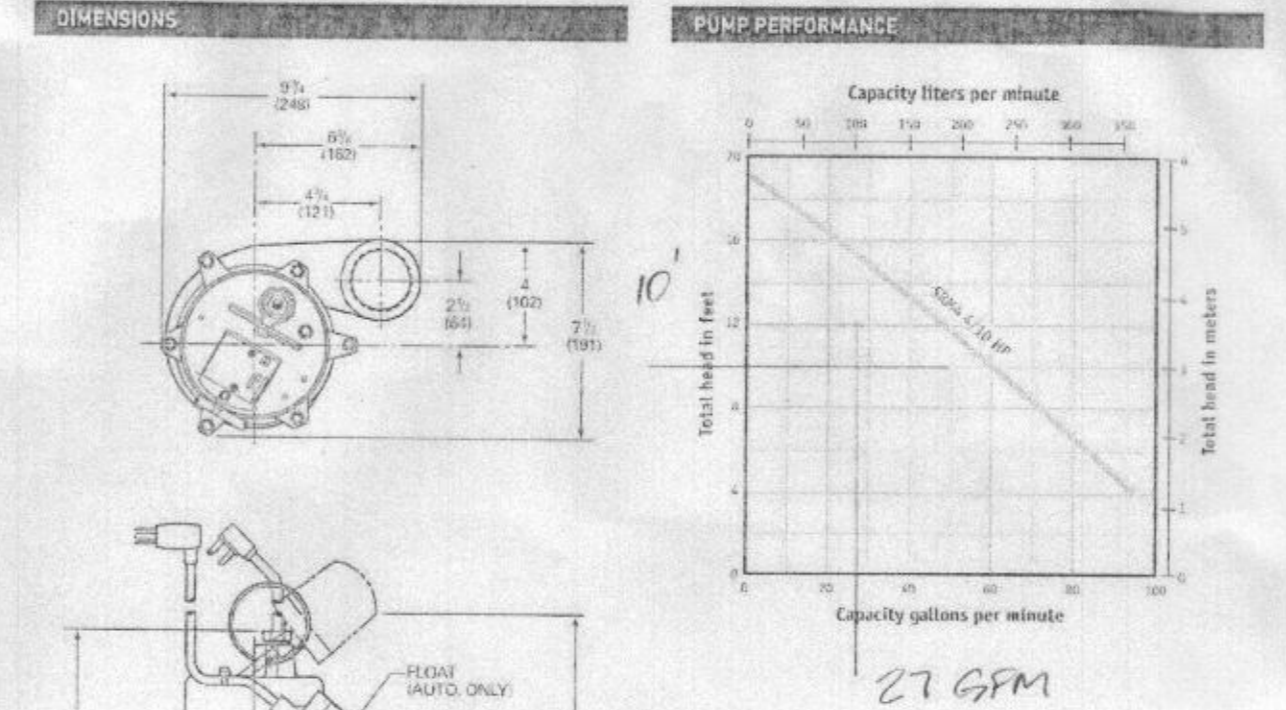


- APPLICATIONS**
Sewage, high-capacity sump, effluent
- SPECIFICATIONS**
Capacities - 95 GPM (360 LPM)
Shut-off Head - 19' (5.8 m)
Solids Handling - 2" (50.8 mm)
Liquids Handling - Septic effluent and sewage
Intermittent Liquid Temperature - Up to 140°F (60°C)
Motor/Electrical Data - 4/10 HP, permanent split capacitor type, 115V, 12A, 10, 60Hz; 230V, 6A, 10, 60Hz
Acceptable pH Range - 5-9
Discharge, NPT - 2" (50.8 mm)
Housing - Heavy cast iron
Power Cord - 10' (3.0m) optional
Impeller - Recessed, thermoplastic
Volute Case - Cast iron
Shaft Seal - Type 11A, carbon and ceramic
- FEATURES**
- Versatile Applications** Effective and efficient performance in septic tank sewage, effluent and high-capacity sump applications
 - Handles the Heat** High-endurance, oil-cooled motor for continuous bearing lubrication and critical heat dissipation
 - Powerful Torque** High-torque, permanent split capacitor (PSC) motor; no starting switches or relays to wear out
 - Motor Protection** Long-life carbon/ceramic seal provides extra protection against water leaks
 - Excess Heat Detection** Internal heat sensor provides overload protection; automatically resets when motor cools to a safe operating temperature
 - Free-flow Design** Recessed impeller design also improves the free flow of solids up to 2"
 - Longer Bearing Life** Recessed impeller reduces radial bearing loads, increasing bearing life
 - Automatic and Manual** Automatic tethered or vertical switch models (with piggyback plug), or manual operation models

RESIDENTIAL SEWAGE PUMP
MYERS® SRM4 SERIES

ORDERING INFORMATION

Model Number	HP	Volts	Phase/Cycles	Amps	Discharge Size	Switch Type	Cord Length	Approx. Wt. Lbs.
SRM4P-1	4/10	115	1/60	12	2"	Tethered Automatic	10'	40
SRM4PC-1	4/10	115	1/60	12	2"	Tethered Automatic	10'	40
SRM4M-1	4/10	115	1/60	12	2"	Manual	30'	39
SRM4PC-2	4/10	230	1/60	6	2"	Tethered Automatic	10'	40
SRM4M-2	4/10	230	1/60	6	2"	Manual	30'	39
SRM4V-1	4/10	115	1/60	12	2"	Vertical Automatic	30'	40
SRM4V-2	4/10	230	1/60	6	2"	Vertical Automatic	30'	40



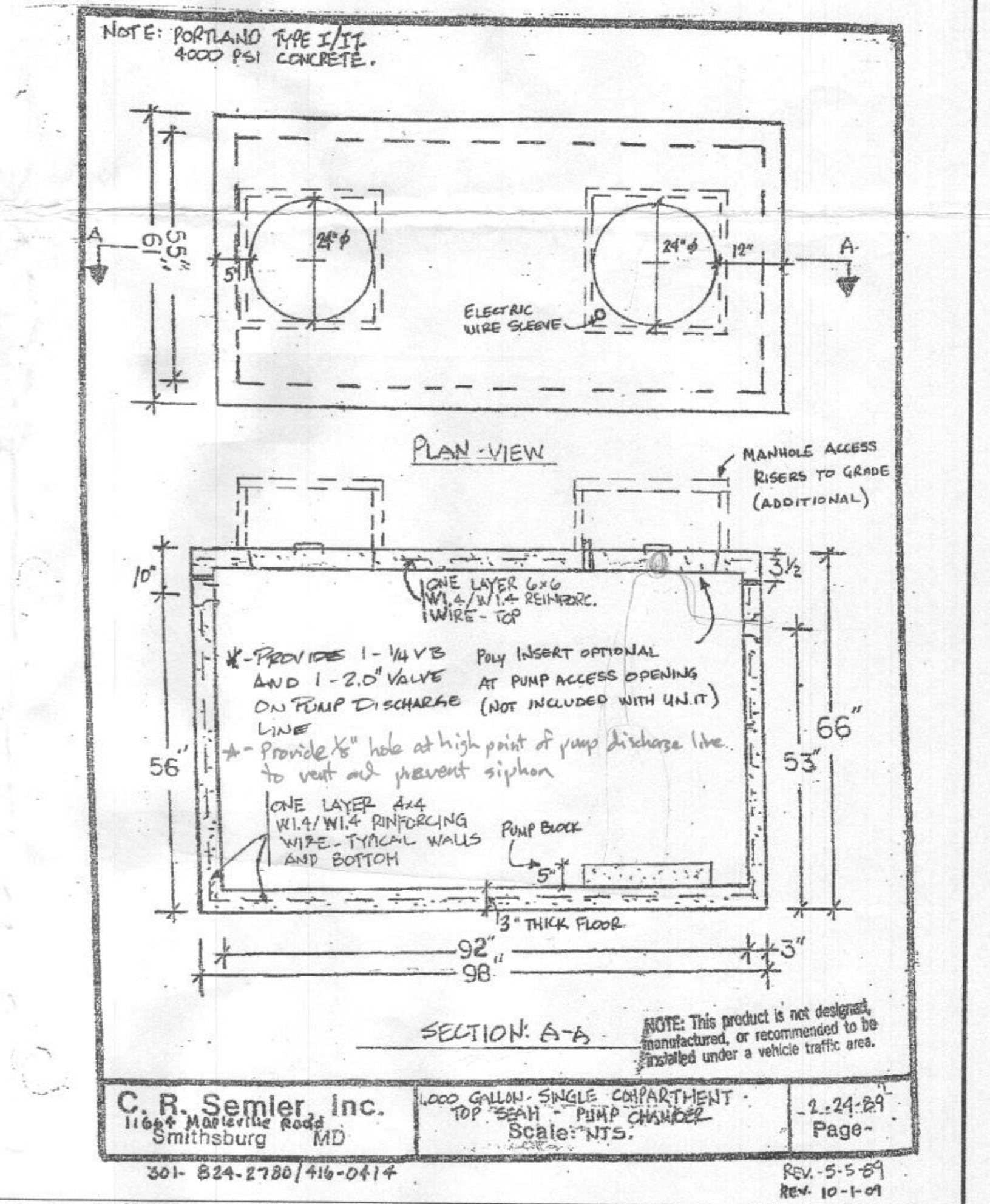
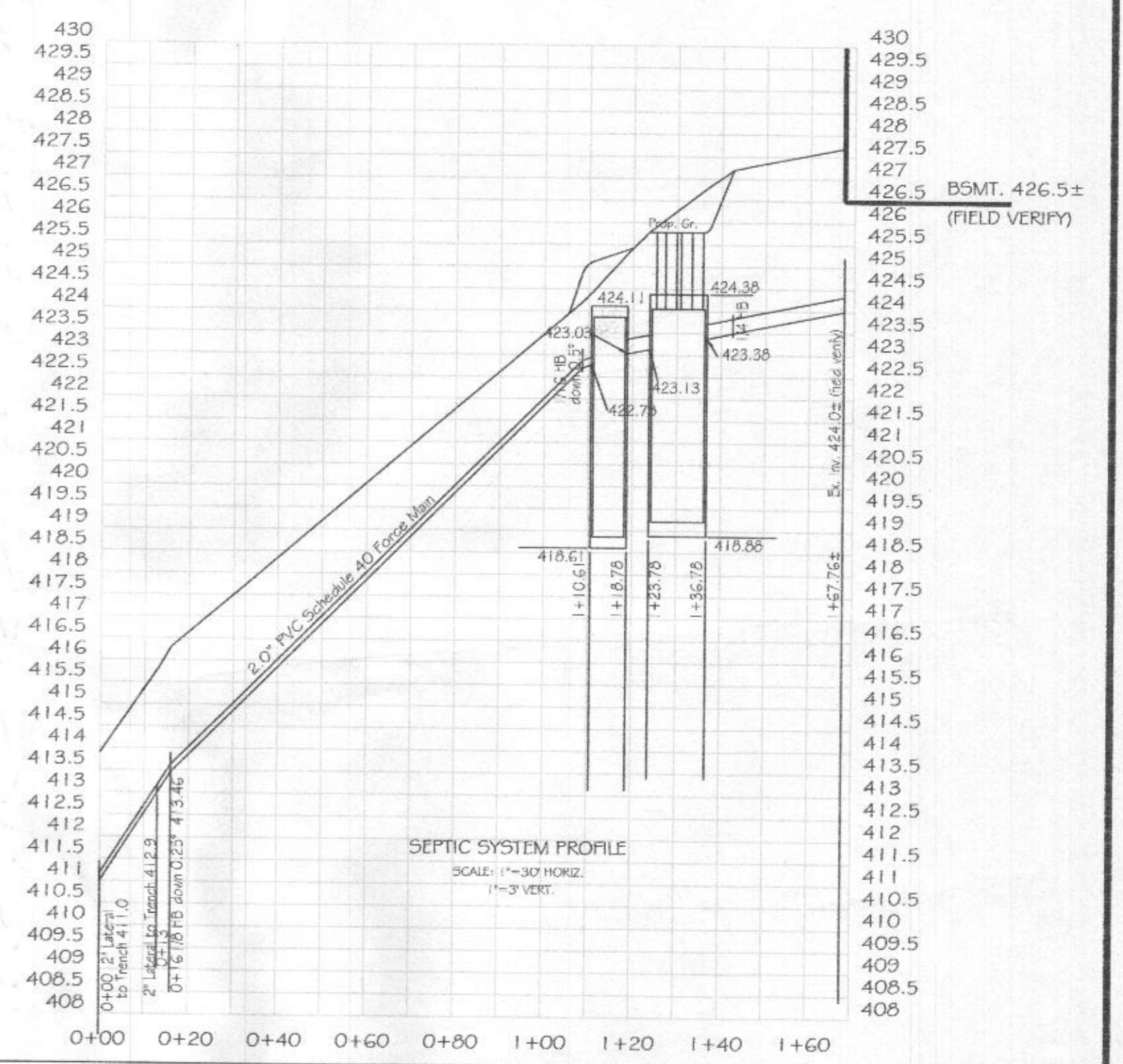
Approved Septic System Plan
Howard County Health Department
[Signature] 1/2/14
Date

PENTAIR

- NOTES:**
- CONTRACTOR TO BUILD / INSTALL 2" WIDE DISPOSAL TRENCHES.
 - DISTRIBUTION LATERALS TO BE INSTALLED ON LEVEL GRADE. BOTTOM OF TRENCH TO BE EXCAVATED ON LEVEL GRADE.
 - CONTRACTOR TO DRILL HOLES IN DISTRIBUTION LATERALS AS SHOWN BELOW. INSTALL PIPE HOLES DOWNWARD.
 - THE LAST HOLE IN THE LATERALS MUST BE LOCATED AT THE CROWN OF THE INVERT.

SEWAGE DISPOSAL AREA LATERAL / TRENCH SIZING SUMMARY

ZONE	LATERAL TRENCH NO.	EX. GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION	LATERAL LENGTH	HEAD	ORIFICE DIAMETER	ORIFICE FLOW RATE (GPM)	ORIFICE SPACING	NUMBER OF ORIFICES	TRENCH FLOW RATE (GPM)
INITIAL	1	415.9	412.9	410.9	32.2'	2.0'	5/16"	1.63	6.0'	8	13.0
	2	414.0	409.0	409.0	52.2'	3.9'	5/16"	2.30	8.8'	6	13.8
TOTAL DISCHARGE OF DISTRIBUTION NETWORK EQUALS 26.8 GPM.											



OWNER
MICHAEL BALAKIRSKY
11755 BRAGDON WOOD
CLARKSVILLE, MD 21029
(410) 340-7832

SITE PLAN FOR B.A.T. INSTALLATION
A-544517
11755 BRAGDON WOOD
BALAKIRSKY PROPERTY, LOT I

SHEET 2
TITLE DEED: 14885/154
TAX MAP 29, GRID 14, PARCEL 42
5TH ELECTION DISTRICT, HOWARD COUNTY, MD.
SCALE: 1" = 20' DATE: 10/10/2014