

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

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

RECEIPT DATE: 10/14/14 **ONSITE SEWAGE DISPOSAL SYSTEM** P 555269

INSTALLATION APPROVAL DATE: 8/25/15 **PERMIT** A _____

CONSTRUCTION

PROPERTY ADDRESS: 4507 Ten Oaks Road

SUBDIVISION: Mitchell Property LOT: 2 TAX ID: 05-444896

CONTRACTOR: J.M. Contracting LLC. EMAIL: _____

CONTRACTOR ADDRESS: 425 Obrecht Road, Sykesville, MD 21784 PHONE: 443-277-7526

PROPERTY OWNER: Christopher Esveld EMAIL: _____

OWNER ADDRESS: 14833 Silver Ash Court, Burtonsville, MD 20866 PHONE: 301-549-2223

BAT UNIT MODEL: Advantex AX20-RT PUMP SIZE: _____ PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: GRAVITY LOW PRESSURE DOSED NUMBER OF BEDROOMS: 4

TRENCHES:	LINEAR FEET REQUIRED: <u>SEE BAT PLAN 308'</u>	INLET DEPTH: <u>SEE BAT PLAN 4'</u>
	TRENCH WIDTH: <u>SEE BAT PLAN 2'</u>	MAXIMUM BOTTOM DEPTH: <u>SEE BAT PLAN 8'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>SEE BAT PLAN</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>SEE BAT PLAN 7'</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Set BAT unit per plan. <u>4x77' Trenches</u>	

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

- 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
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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 On Separate Sheet

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
2'	4'	8'
NUMBER OF TRENCHES 4'		
TOTAL LENGTH ~308'		
ABSORPTION AREA 308 ?		
DISTRIBUTION BOX LEVEL Yes		
DISTRIBUTION BOX BAFFLE Yes		
DISTRIBUTION BOX PORT Yes		

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	Yes
MANUFACTURER	Babylon
CAPACITY	1000 GAL
SEAM LOC	Top
TANK LID DEPTH	1'-2'
BAFFLES	Need Front 6"
BAFFLE FILTER	Biotube
MANHOLE LOC	Front + Rear
6" PORT LOC	None
WATERTIGHT TEST	No
SLOTTED	No
DATE ON LID	10/7/2014
PUMP/SEPTIC TANK LEVEL	Yes
MANUFACTURER	Advantex AX20RT
CAPACITY	800 GAL
SEAM LOC	N/A
TANK LID DEPTH	At Grade
BAFFLES	N/A
BAFFLE FILTER	N/A
MANHOLE LOC	N/A
6" PORT LOC	N/A
WATERTIGHT TEST	No
SLOTTED	N/A
DATE ON LID	N/A

PRE-CONSTRUCTION:

11/7/2014 Install four 77' trenches on contour across the top of the easement. Get tank locations staked before setting tanks. Keep observation ports away from driveway. (BB)

INSTALLATION:

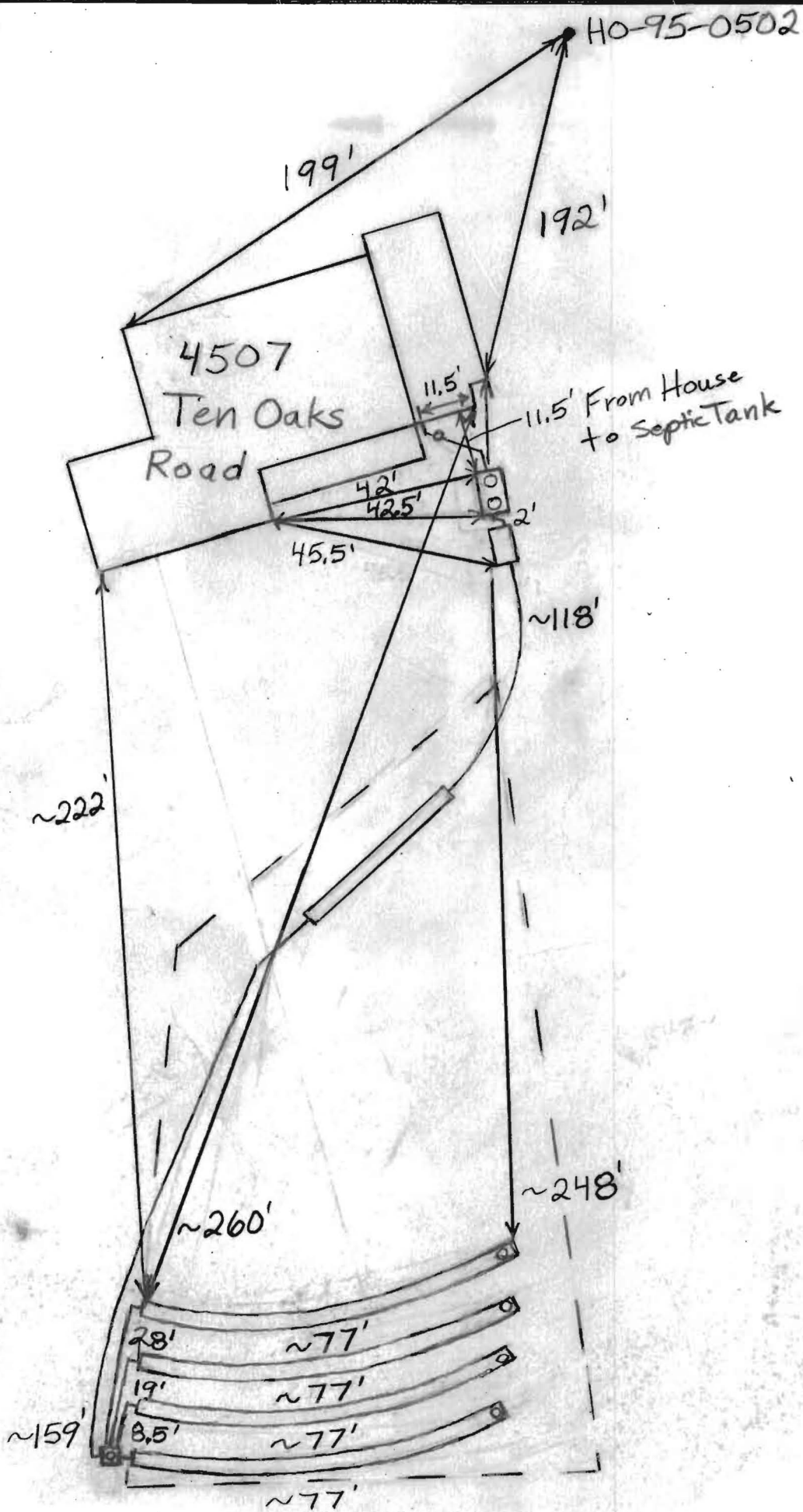
11/12/2014 Front four inch tank baffle needs to be replaced with a six inch baffle. Three inch pipe coming out of slab at house per septic installer. Three to four inch adapter used. Called homeowner (Chris Eweld) and told him to contact plumbing inspector about use of smaller diameter pipe. Need BAT approval from Advantex inspector. (BB) 8/25/14 start-up report received from rink.

FINAL INSPECTOR

J. Wolf

DATE OF APPROVAL

8/25/15



GENERAL NOTES:

1. Owner and Developer:

Christopher Esveld
 14833 Silver Ash Court
 Burtonsville, Maryland 20866
 Home: 301-549-2223
 Mobile: 240-426-0472

Site Location:

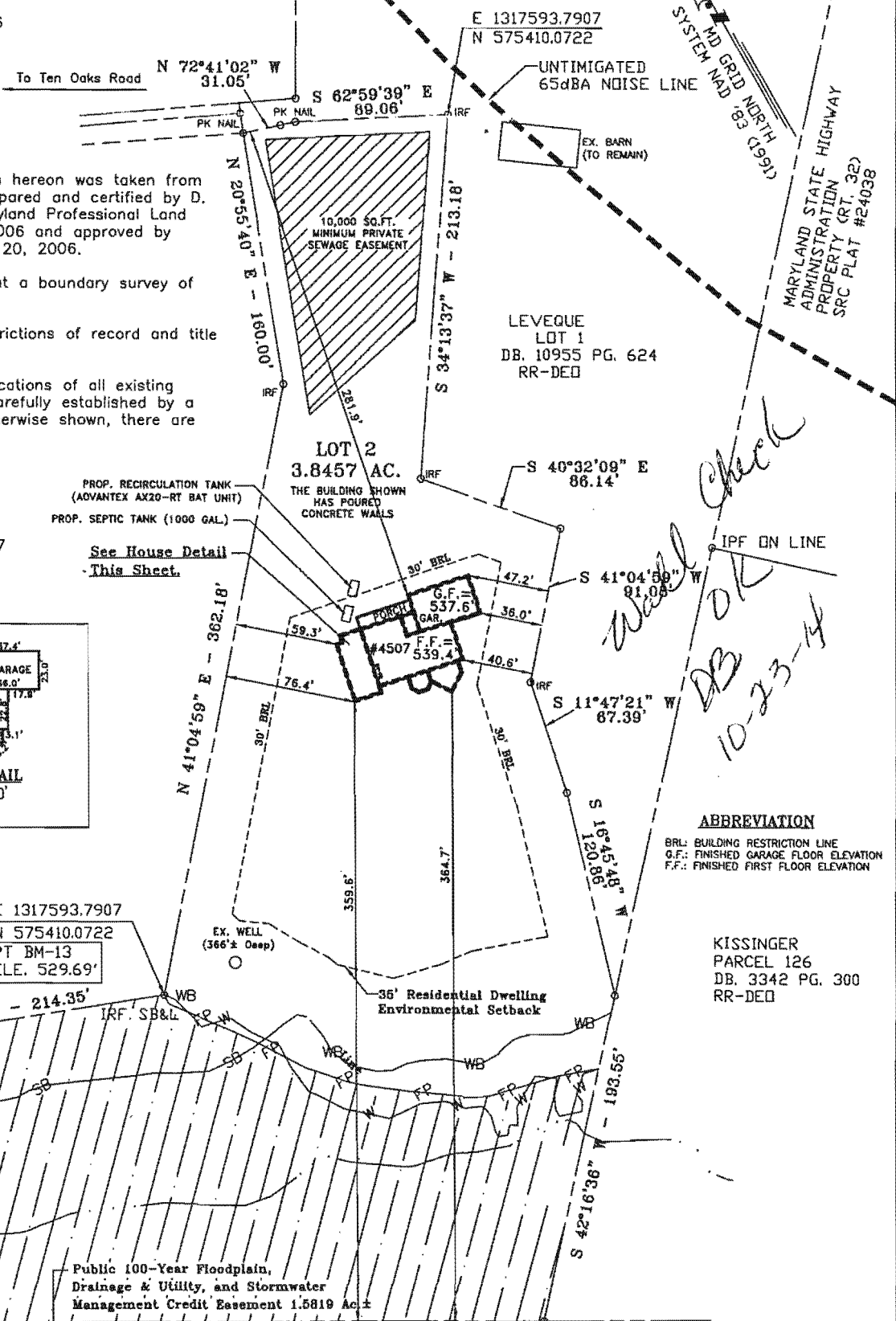
4507 Ten Oaks Road
 Dayton, Maryland 21036

2. Boundary information shown hereon was taken from a boundary survey plat prepared and certified by D. Wayne Weller, State of Maryland Professional Land Surveyor on October 11, 2006 and approved by Howard County on October 20, 2006.

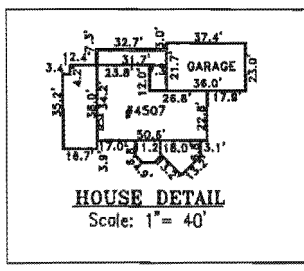
3. This plat does not represent a boundary survey of the property.

4. This plat is subject to restrictions of record and title report is not furnished.

I hereby certify that the locations of all existing improvements have been carefully established by a transit tape and unless otherwise shown, there are no visible encroachments.



CRANE
 PARCEL 271
 DB. 14060 PG. 167
 RR-DED



Wall Check
DB OK
10-23-14

ABBREVIATION
 BRL: BUILDING RESTRICTION LINE
 G.F.: FINISHED GARAGE FLOOR ELEVATION
 F.F.: FINISHED FIRST FLOOR ELEVATION

KISSINGER
 PARCEL 126
 DB. 3342 PG. 300
 RR-DED

- LEGEND**
- WB — 25' WETLAND BUFFER
 - SB — 75' STREAM BUFFER
 - FP — 100 YEAR FLOODPLAIN
 - W — WETLANDS
 - Q — STREAM

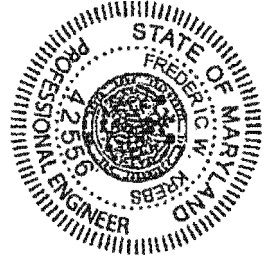
PUBLIC 100-YR FLOODPLAIN, DRAINAGE & UTILITY, AND STORMWATER MANAGEMENT CREDIT EASEMENT

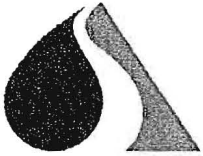
"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 424556, Expiration Date: 7/1/16."

Signature: *[Signature]*
 Date: 7/31/14

Certification Plat
 Showing Wall Check on the Property Located at
4507 Ten Oaks Road
Dayton, MD 21036

Tax Map Number: 28-Grid 2-Parcel 243
 5th Election District Howard County, Maryland
 Scale: 1" = 60' Date: July 31, 2014





Atlantic Solutions, Ltd.

Delivering a Cleaner Tomorrow

512 Shaw Ct, Ste 103 • Severn, MD 21144
Office (877) 814-8426 • Fax (401) 293-0178
www.atlanticsolutionsld.com

August 25, 2015

Kevin Wolf

Howard County Environmental Health

Re: AdvanTex Treatment System
4507 Ten Oaks Rd, Dayton

Kevin:

This is to certify that the AdvanTex treatment system at the above referenced property is installed per manufacturers specifications and ready for use.

Please call if you have any questions

Bob Johnson

Atlantic Solutions
877-814-8426/214-9283



Bureau of Environmental Health 000072

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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 3rd day of November, among Christopher Esveld, 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 4507 Ten Oaks Rd. Dayton, MD, in the 7th 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 3965 Folio 128.

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 Adventex AX20RT. Model 3B/30-SX

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

HOWARD COUNTY CIRCUIT COURT (Land Records) WAR 15859, p. 0147, MSA_CE53_15850. Date available 11/07/2014. Printed 08/21/2015.

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

[Signature] 11/3/2014
 Howard County Health Department

[Signature] 11.2.14
 Owner #1 Signature Date

Christopher Esveid
 Owner #1 Print Name

 Buyer #1 Signature Date

 Buyer #1 Print Name

JW 8/8/2014

 Owner#2 Signature Date

 Owner #2 Print Name

 Buyer #2 Signature Date

 Buyer #2 Print Name

LR - Agreement
 Recording Fee 20.00
 Grantor/Grantee Name:
 Esveid
 Reference/Control #: 72
 LR - Agreement
 Surcharge 40.00
 =====
 SubTotal: 60.00
 =====
 Total: 60.00
 11/03/2014 11:10
 CC13-DS
 #3403630 CC0503 -
 Howard Co
 Columbia/CC05.03.07 -
 Register 07

HOWARD COUNTY CIRCUIT COURT (Land Records) WAR 15859, p. 0148, MSA_CE53_15850. Date available 11/07/2014. Printed 08/21/2015.

4507 Ten Oaks Road

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: Esveld
Reference/Control #: 72

LR - Agreement Surcharge
1x 40.00 40.00

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

REV-Cash 60.00

11/03/2014 11:10 CC13-DS
#3483638 /1246/109

~ Thank you for visiting us today ~



Bureau of Environmental Health

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Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

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Model 3B/30-SX

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Beth Nelson 11/3/2014
Howard County Health Department

11-3-14
Owner #1 Signature Date

Christopher Esvald
Owner #1 Print Name

Owner #2 Signature Date

Owner #2 Print Name

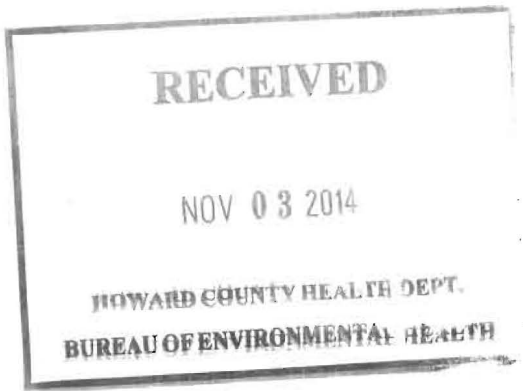
Buyer #1 Signature Date

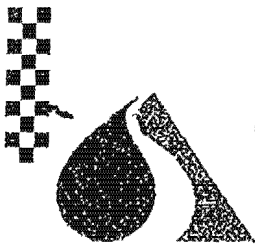
Buyer #1 Print Name

Buyer #2 Signature Date

Buyer #2 Print Name

JW 8/8/2014





Atlantic Solutions, Ltd.

Delivering a Cleaner Tomorrow

2417 East Main Road • Portsmouth, RI 02871
Office (401) 293-0176 • Fax (401) 293-0178
www.atlanticsolutionsllc.com

Operations & Maintenance Agreement AdvanTex Treatment System

This Agreement made between the System Owner (hereinafter "Customer") and Atlantic Solutions, Ltd. (hereinafter "Atlantic"), for the Operations & Maintenance (hereinafter "O&M") services rendered by Atlantic. This agreement covers the O&M services that will be performed by Atlantic on the wastewater treatment equipment for the Customer and installed at the property listed below.

Customer: Christopher Esvelid Home: 301-549-2223
System Address: 4507 Ten Oaks Rd Work: 921-498-1338
City: Dayton State: MD Zip: 21036 Cell: 240-426-0472
Mailing Address: 14833 Silver Ash Ct Email: Theesvelids@verizon.net
City: Burtonsville State: MD Zip: 20866 Permit #:

1.0 Term of Agreement

This agreement shall be for a period of two (2) years from the date of the contract and provide for one (1) scheduled service visits per year, unless otherwise terminated or canceled by either Party as provided herein. The routine service will be completed for a total annual fee of two hundred twenty five dollars (\$225.00), to be paid at the time of execution and on the annual renewal thereafter).

2.0 Certification of System

Customer shall permit Atlantic to inspect the System to determine if it is in good working order. Based on such inspection, Atlantic may, either (i) require the Customer to perform such Maintenance on the System or (ii) perform such Maintenance on the System themselves. Any such Maintenance services provided by Atlantic shall be billed to Customer at Atlantic standard rates for materials, and reduced rate for time and travel.

3.0 Responsibilities of System Owner

The system owner is responsible for providing and/or performing the following services:

- Provide access to an outdoor hose bib within 100 feet of the treatment system components.
- Notify Atlantic of any and all alarms as they occur.
- Provide access to the control panel for the scheduled inspection, including removing of locks, trimming of shrubbery, etc.
- If applicable, install and maintain an analog telephone line to the control panel. It is the sole responsibility of the property owner to maintain and repair the phone line as notified and required. Digital phone service will require customer to purchase a converter to continue with system monitoring.
- Ensure the household practices as detailed in the "Homeowner's Manual" are strictly adhered to.
- Prevent all rain and ground water from sump pumps and down spouts from entering the system.
- Perform any additional services recommended by Atlantic in a timely manner to ensure proper operation.

In the event the customer does not continuously provide and/or perform the services outlined above, Atlantic shall have the right to cease performance of all services to the customer without liability to the system owner.

4.0 Services to be performed

Atlantic will perform the following services at each scheduled visit:

- Measure the swim and sludge of the floating tanks as applicable,
- Inspect and clean pump package,
- Inspect control panel, record pump amperage, confirm dial tone (if applicable), and visual and audible alarms,
- Confirm operation of complete discharge basin, if applicable.
- Monitor disposal area for obvious signs of failure and flush materials as applicable

5.0 Reporting

Atlantic will report the findings of the inspection to the customer in a report summarizing the system status, including any recommendations and/or requirements. If required by local regulations, the date and status of the system after the inspection will be entered into an online database. Any other requirements by the local jurisdiction will be the responsibility of the customer.

6.0 Telephone Support

Atlantic will provide telephone support, at no additional charge, for system questions and alarm conditions for the duration of this agreement. Telephone support will be available Monday thru Friday from 8:00 a.m. to 5:00 p.m., excluding holidays.

7.0 Emergency Service Calls

Atlantic will provide emergency and non-routine maintenance services, not covered under this contract, to the customer at the current discounted contract rate per man-hour plus one-way travel to the system identified under this agreement. In most cases, an emergency answering service will be available seven (7) days a week from 8:00 a.m. to 7:00 p.m. Technicians will be available for dispatch five (5) days a week, Monday through Friday from 8:00 a.m. to 4:00 p.m.

8.0 Services not Covered by this Agreement

Additional services not covered by this agreement include:

- Pumping of the tanks
- Effluent sample, collection and analysis
- Corrective action to ensure system performance, nor costs of additional equipment required to perform such corrective action
- Monitoring of system to verify communication, customer shall be solely responsible for maintaining the phone system and ensuring communication.
- Emergency response or unscheduled service call to the system identified under this agreement

These services can be performed by Atlantic at the customer's request for an additional charge. All additional services requested by the customer will be billed at Atlantic's standard rate for materials and the reduced rate for time and travel.

9.0 Charges

The charges which the Customer shall pay Atlantic for the performance of services shall be as described at the beginning of this agreement, subject to the following conditions:

- Atlantic may increase all or any of the charges for those Services described above by giving the Customer written notice at least thirty (30) days before each yearly anniversary of the Effective Date of this Agreement.
- All charges shall be due and payable within thirty (30) days of the date on the invoice. Customer shall pay a late payment charge of 1.5% per month (18% per annum).
- Customer shall be responsible for any and all reasonable attorney and collection fees for past due invoices sent for collection.

10.0 Limitation of Liability

The sole liability of Atlantic under this agreement shall be to correct any errors, malfunctions, or defects in the system directly caused by Atlantic's failure to perform as provided in a good and workmanlike manner. However, in no event shall Atlantic's liability exceed the total of the amounts paid to Atlantic hereunder by the Customer. In no event shall Atlantic be liable to the Customer or any third-party claimant for any indirect, special, punitive, consequential, or incidental damages or lost profits arising out of or related to this Agreement or the performance or non-performance of the services provided hereunder. No limitation of contract, warranty, negligence, or other liability or other tort, breach of any statutory duty, indemnity, or contribution or otherwise, even if Atlantic has been advised of the possibility of such damages.

11.0 Indemnity

Customer agrees to indemnify and hold Atlantic free and harmless from and against any and all claims, demands, liabilities, actions, losses, and damages of whatsoever kind or nature arising out of or relating to Atlantic's performance under this Agreement.

12.0 Termination/Cancellation

In the event of any termination or cancellation of this Service Contract by Atlantic or Customer, Atlantic shall have the right to:

- Declare all amounts owed to Atlantic to be immediately due and payable;
- Enter Customer's premises and repossess all materials, parts, and all other items owned by Atlantic;
- Cease performance of all services and additional services without liability to the Customer.

Customer shall have the right to:

- Deny Atlantic access to its premises and to the system, except that Atlantic shall have the right to enter the Customer's premises to repossess all materials, parts and other items owned by Atlantic;
- Discontinue utilizing Atlantic for the performance of services and additional services.

13.0 Miscellaneous Provisions

- This Service Contract terminates and supersedes all other agreements between the parties and constitutes the entire understanding between them. This Agreement cannot be changed, modified, or varied except by written instrument duly executed by both parties, except that Atlantic may increase the charges for Services without execution of a written instrument as provided in this agreement.

- The failure of either Party to insist on strict performance of this agreement by the other shall not be construed as a waiver of the right to insist on such performance and no waiver by either party to any breach by the other of any provision hereof shall be deemed a waiver of any other prior or subsequent breach.
- The laws of the State of Maryland shall govern this agreement.
- If any suit or action is filed by either party to enforce this agreement or otherwise with respect to the subject matter of this agreement, the prevailing party shall be entitled to recover reasonable attorney fees incurred in preparation or in prosecution or defense of such suit or action as fixed by the trial court, and if any appeal is taken from the decision of the trial court, reasonable attorney fees as fixed by the appellate court.
- This agreement shall be binding upon and inure to the benefit of the successors and assigns of Atlantic and Customer.
- Time is of the essence for each and every provision of this agreement.
- Any notice or other communication required or permitted to be given under this agreement shall be in writing and shall be mailed by certified mail, return receipt requested, postage prepaid, addressed to the Parties at the addresses shown on the first page of this Service Contract. Any notice or other communication shall be deemed given at the expiration of the second day after the date of deposit in the United States mail. The addresses to which notice or other communications shall be mailed may be changed from time to time by giving written notice to the other party.

This agreement is only valid if signed by both the Customer and a representative of Atlantic Solutions, Ltd.

Sign: _____

Print: Christopher Esvald
Customer

Sign: _____

Print: _____
Customer

Date: 10-31-14

Date: _____

Sign: _____

Print: Tiffany Claver
Atlantic Solutions, Ltd.

Date: 10-31-14

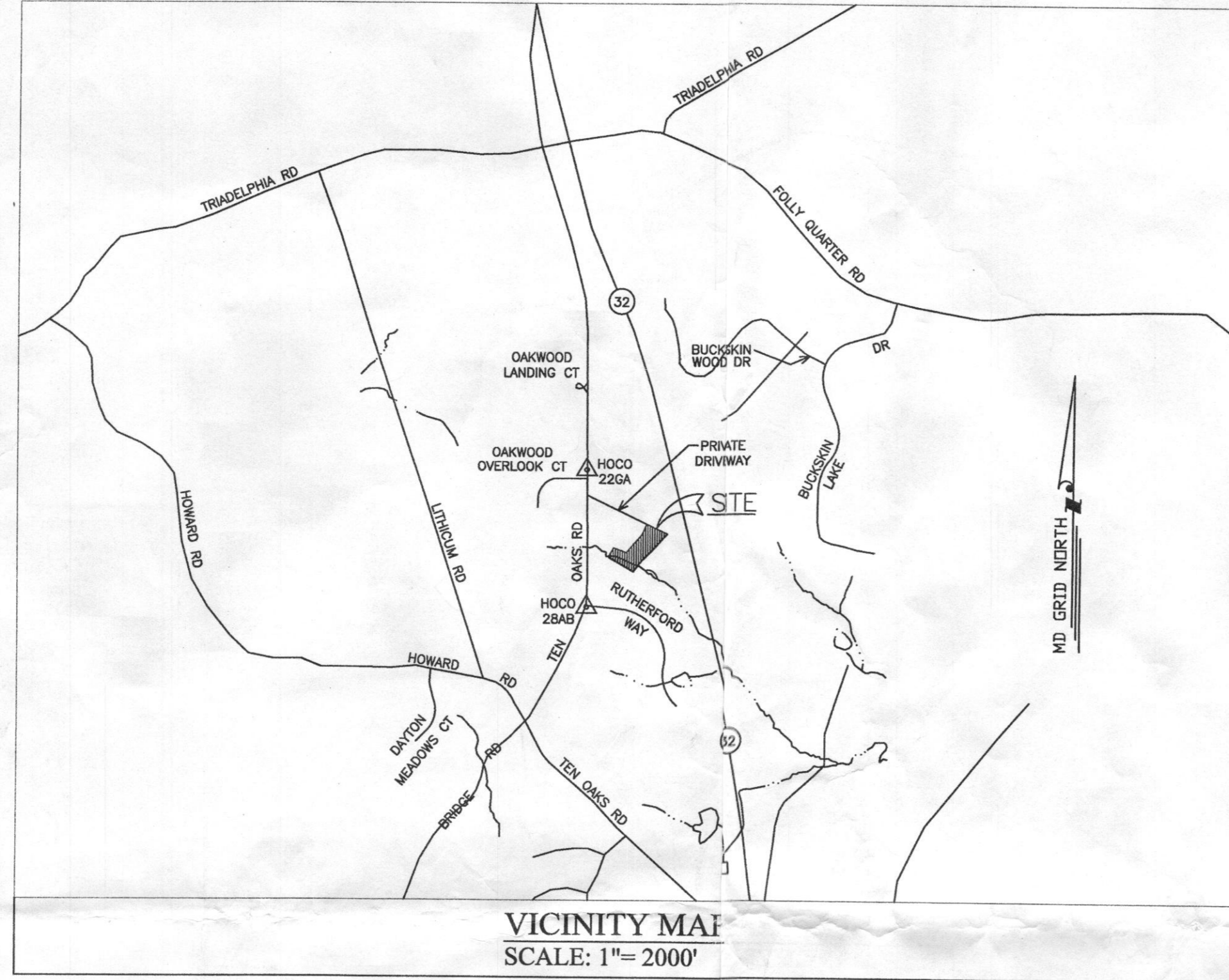
Just a
copy - for
our review
~~DA~~
Not
accepted

GENERAL NOTES:

- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications if applicable.
- The contractor shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection Division at (410) 313-1880 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to the start of construction or any excavation work being done.
- Traffic control devices, markings and signing shall be in accordance with the latest edition of the Manual of Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.
- Street light placement and the type of fixture and pole shall be in accordance with the Howard County Design Manual, Volume III (1993) and as modified by "Guidelines for Street Lights in Residential Developments (June 1993)." A minimum spacing of 20' shall be maintained between any street light and any tree.
- The existing topography is taken from field run survey with maximum two foot contour intervals prepared by Site Engineers, LLC. dated November 25, 2013 & December 24, 2013.
- The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System. Howard County Monument Nos. 22GA and 28AB were used for this project.
- Water is private.
- Sewer is private.
- Overland runoff is used for this lot development.
- Existing utilities shown are based on existing field survey, owner records, and or utility company records. Contractor shall verify the exact location prior to the start of construction.
- The floodplain study for this project was taken from the latest Howard County Clyde's Branch Floodplain Study.
- The wetlands delineation study for this project was prepared by LDE, Inc., dated May 2005, and was approved on January 5, 2007.
- This is an existing lot; therefore, no traffic study for this project is required for this lot.
- Project background information
 Subdivision Name: Mitchell Property
 Subdivision Plat: Plat Number 18739 Recorded on January 5, 2007
 Tax Map Number: 28-Grid 2-Parcel 243
 Section/Area: 3.8457 Acres
 Lot/Parcel: 2/ 243
 Deed Reference: Parcel 243 Liber 3965, Folio 128 & Liber 15348, Folio 46
 Zoning: RR-DEO Per February 2, 2004 Comprehensive Zoning Plan
 ZB/BA Reference: N/A
 Election District: 5
 Total Tract Area: 3.8457 Acres
 Section Area: 3.8457 Acres
 Number of Proposed Lots: Existing Lot
 Preliminary Plan Approval Date: N/A
 DPZ Reference Number: N/A
- Owner and Developer:
 Christopher Esveld
 14833 Silver Ash Court
 Burtonsville, Maryland 20866
 Home: 301-549-2223
 Mobile: 240-426-0472
- Site Location:
 4507 Ten Oaks Road
 Dayton, Maryland 21036
- Boundary information shown hereon was taken from a boundary survey plat prepared and certified by D. Wayne Weller, State of Maryland Professional Land Surveyor on October 11, 2006 and approved by Howard County on October 20, 2006.
- All finished grading and planting shall be done in such a manner not to impede flow of water on the site.
- It shall be the contractor's responsibility to perform the work in such a manner so as to prevent washing of any topsoil, silt, or debris onto the adjacent properties, and he shall be held responsible for any damage incurred for a period of one year after acceptance of the work.
- The contractor shall provide adequate means of cleaning trucks and/or other equipment prior to entering the Maryland Department of Transportation Right-Of-Way, and it is the contractor's responsibility to ensure that the road is maintained in a clean, mud and dust free condition at all times.
- All foundation footings must extend below the disturbed soil or be placed on structural fill inspected and certified geotech engineer.
- There are no wetlands on site that will be disturbed and that will require 401 and 404 wetland permit from the State of Maryland.
- Landscaping for Lot 2 is provided in accordance with the certified Landscape Plan in accordance with Section 16.124 of the Howard County Code and the Landscape Manual. The landscaping surety in the amount of \$2,400.00 will be paid with the builder's grading permit for the (8) required shade trees.

CHRISTOPHER ESVELD'S RESIDENCE

4507 TEN OAKS, DAYTON, MD 21036



HEALTH DEPARTMENT NOTES:

- A four-bedroom limit is required for Lot 2.
- Septic field piping is required to be installed prior to construction of the house.

BEST AVAILABLE TECHNOLOGY FOR NITROGEN REMOVAL (BAT) SITE PLAN NOTES:

- Any change to the locations or depths to any components must be approved by the engineer and the Howard County Health Department prior to installation. A revised site plan may be required.
- The maximum depth of the BAT per the manufacturer's specification is 6 feet.
- The blower may not be located more than N/A feet from the tank based on the manufacturer's specifications. There is no blower for this system.
- 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.
- BAT Systems shall be Orenco Advantex AX20-RT Systems or Approved Equal. BAT systems installer shall be Fogle's Septic Service or Approved Equal. Septic Tank shall be a standard one compartment septic tank and shall be provided by Mayer Brothers Precast, or Babylon Vault Company, or Approved Equal.

DRAWINGS INDEX

- SHEET 1 OF 4: COVERSHEET
- SHEET 2 OF 4: SITE PLAN
- SHEET 3 OF 4: WELL COMPLETION REPORT, WELL YIELD TEST, SEPTIC PERCOLATION TEST RESULTS APPROVED LETTER, PERCOLATION TEST FIELD DATA, AX20-RT BAT SYSTEM SPECIFICATIONS AND DETAILS
- SHEET 4 OF 4: BAT SYSTEM PROFILE, PUMP CURVE AND DETAIL

Approved Septic System Plan
 Howard County Health Department
[Signature] 5/30/14
 /Date



"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. 42556, Expiration Date: 7/01/14."
 Signature: *[Signature]* 5/14/14

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS	DATE
HOWARD COUNTY HEALTH OFFICER	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	DATE
DIRECTOR	DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE



DRAWN BY FK & H
 DESIGNED BY FK & H
 CHECKED BY FK & H
 SCALE AS NOTED

C-1

DATE APRIL 2014
 SHEET 1 OF 4

SITE ENGINEERS, LLC
 ENGINEERS - ARCHITECTS - PLANNERS
 7809 ANTIOPH STREET, ANNANDALE, VIRGINIA 22003
 TEL.: 703-635-6364 FAX: 703-573-2467
 PROJECT MANAGER: HIEN LE
 EMAIL: hi.site_engineers@yahoo.com

CHRISTOPHER ESVELD
 4507 TEN OAKS ROAD, DAYTON, MD. 21036
 TELEPHONE: (HOME) 301-359-2223; (MOBILE): 240-426-0472
Site Plan for BAT Installation
 LOT 2 - 3.8457 A - 4507 TEN OAKS RD - MITCHELL PROPERTY
 5TH ELECTION DISTRICT - ACCOUNT NUMBER: 444896
 HOWARD COUNTY, MARYLAND

NO.	REVISIONS	DATE

OF ENVIRONMENT, 1800 WASHINGTON BOULEVARD, WASHINGTON, D.C. 20036

SEQUENCE NO. 2923 (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

IS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

FILL IN THIS FORM COMPLETELY

PERMIT NO. A 59869

DATE WELL COMPLETED 03/30/05

DEPTH OF WELL 360'

OWNER Mitchell Property

STREET OR RD. 2400 Oak Rd

TOWN Dayton

SECTION 2

LOT 2

WELL LOG

DESCRIPTION OF WELL

NO. OF BAGS 14

PUMPING RATE 3.5

DEPTH OF GROUT 360'

WATER LEVEL 4'

BEFORE PUMPING 4'

WHEN PUMPING 222'

TYPE OF PUMP USED 1/2" 1/2"

SCREEN RECORD

SCREEN TYPE 1/2" 1/2"

SCREEN SIZE 1/2" 1/2"

SCREEN LENGTH 360'

SCREEN HEIGHT 360'

LAND SURFACE 20'

LOCATION OF WELL ON LOT

DRILLER'S LIC. NO. MS 0024

Page 1 of 2

Date 03/30/05

Review

FIELD DATA SHEET

HOWARD COUNTY WELL FIELD TEST

Well Permit No. NO-95-05-02

Location of property (road) 2400 Oak Rd

Subdivision Mitchell Property

Lot 2 Block 2 Plat. Sec.

Well Driller Joseph H. M. Mays

Owner William J. Mitchell

Depth of well 360'

Distance of measuring point (M.P.) above ground 2'

Static water level (S.W.L.) below M.P. 4'

High rate pumping -- reservoir drawdown

Time pump started 7:40 am

Pumping rate 3.5 gpm

Total time 30 minutes to reach pumping water level 262' ft. below H.P.

Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL below H.P.	PUMPING RATE (gpm)	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
7:40 am	4'	3.5	N/A	3.5 gpm
7:55	143'	3.5		
8:10	262'	3.5		
8:25	259'	3.5		
8:40	259'	3.5		
8:55	258'	3.5		
9:10	258'	3.5		
9:25	258'	3.5		
9:40	258'	3.5		
9:55	258'	3.5		
10:10	258'	3.5		
10:25	258'	3.5		
10:40	257'	3.5		
10:55	257'	3.5		
11:10	257'	3.5		

Howard County Health Department

7178 Columbia Gateway Drive, Columbia, MD 21046

(410) 313-2440 Fax (410) 313-2648

TDD (410) 313-2323 Toll Free 1-866-313-6300

website: www.health.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

March 8, 2005

Mr. Mitchell
4451 Ten Oaks Road
Clarksville MD 21029

RE: PERCOLATION TEST RESULTS
Tax Map 28, Parcel 243
Mitchell Property, conformation holes

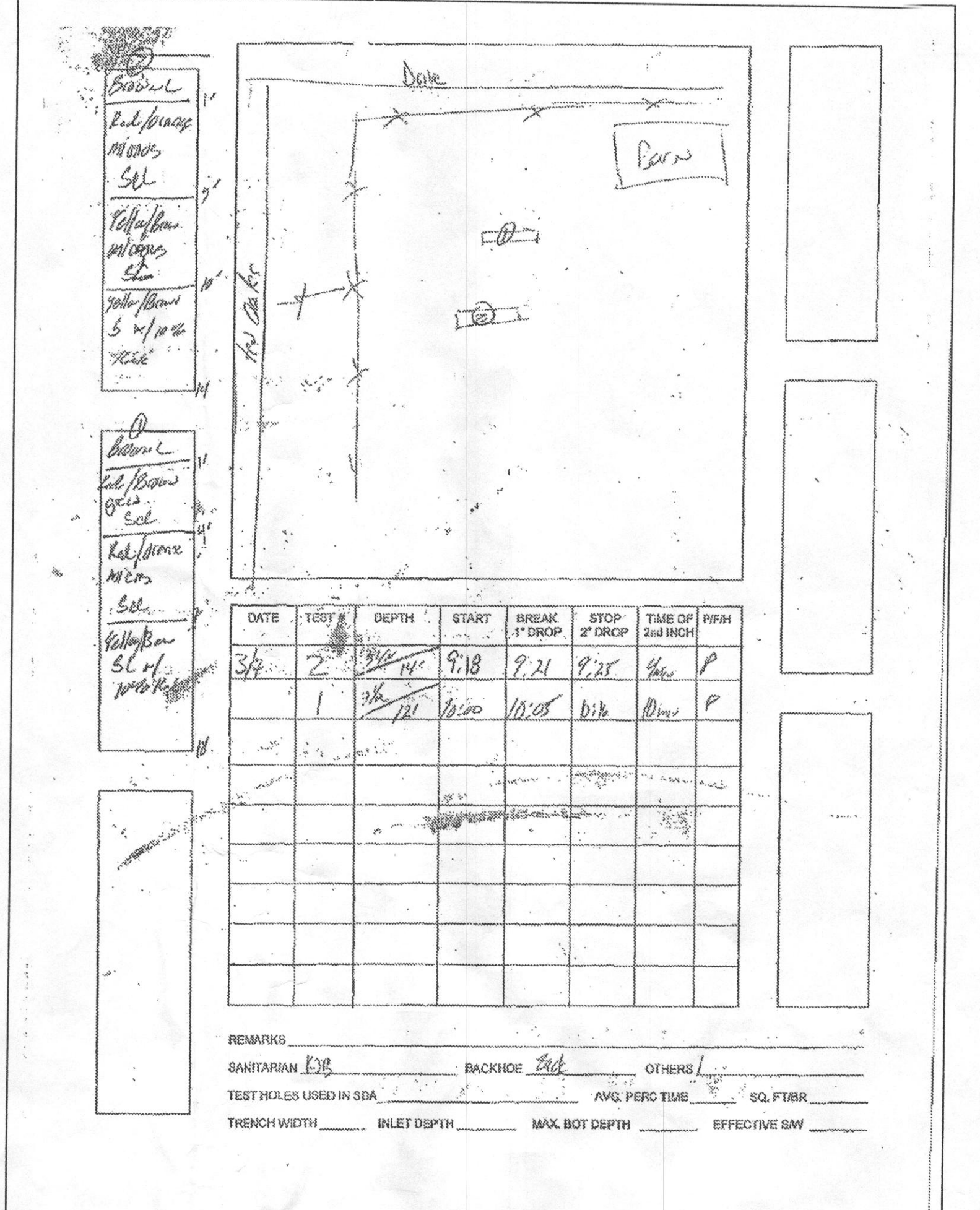
To Whom It My Concern:

Percolation testing conducted March 7, 2005 on the referenced property indicated satisfactory soil conditions. Copies of the test results are enclosed.

If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-1771.

Sincerely,
Penny E. Bell
Water and Septic Program
Development Coordination Section

KJB
Embrosures
Cor. LDR, Inc. (Steve Heiss)
File



AX-RT Residential Design Criteria (cont.)

System Requirements

Residential Strength Wastewater

Residential wastewater must meet the criteria listed in Table 1.

Table 1. Residential Strength Wastewater (Septic Tank Effluent Characteristics)

Characteristic	Average (mg/L)	Weekly Peak (mg/L)	Rarely Exceed (mg/L)
CBOD ₅	130	200	300
TSS	40	60	150
TKN	65	75	150
G&O	20	25	25

Recirculating Pumping Equipment

The AX-RT Treatment Unit includes an Oranco recirculating pumping system, consisting of an Oranco multi-stage effluent pump and a float switch assembly, housed in an integral pump vault.

AX-RT Residential Design Criteria (cont.)

Manifold Pressures

A manifold pressure of 3 to 3.5 psi (20.7 to 24.1 kPa) is used to determine the initial timer settings. Oranco Spin Nozzles typically operate at a flow rate of about 6 gpm (0.38 L/sec). The AX20-RT and AX20-RTUV Treatment Units have two nozzles on the manifold; AX25-RT Treatment Units have three nozzles on the manifold.

Recirculation Ratios and Timer Settings

Initial timer settings for an AX-RT should be established based upon expected average daily flows and a recirculation ratio of 4:1 (filter recirculation ratio). Table 3 provides recommended timer settings. If flows vary significantly from expected flows, timer settings should be adjusted accordingly. Contact Oranco for more information.

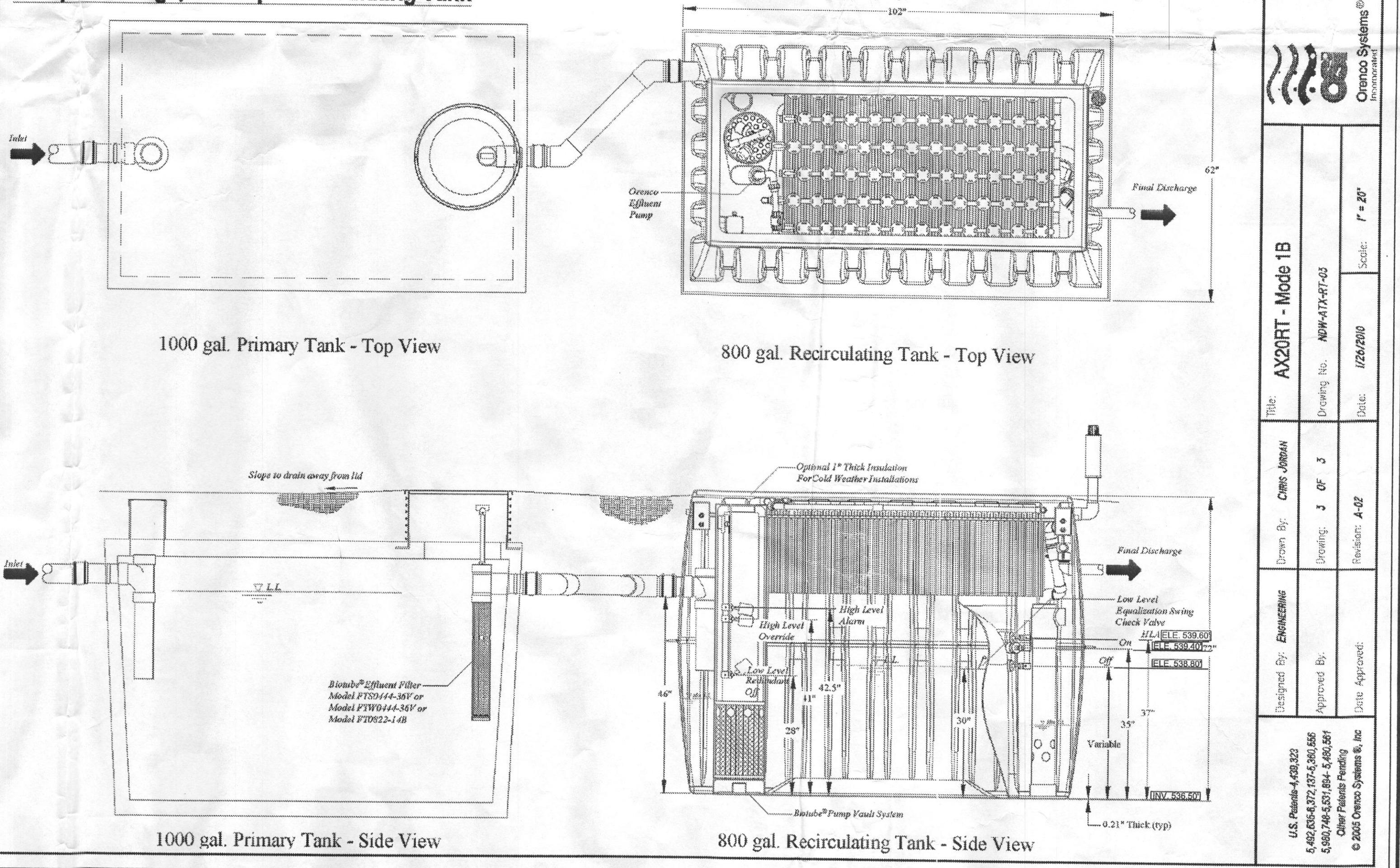
Table 3. Recommended Timer Settings for New Systems

Model	Number of Residents	Time On Setting (Min/Sec)	Avg Daily Flow, gpd (L/day)	Time Off Setting (Min)
AX20-RT	2	0.8 (45)	100 (379)	30
AX20-RTUV	3	0.8 (45)	150 (568)	20
	4	0.8 (45)	200 (757)	15
	5	0.8 (45)	250 (946)	15
	6	0.8 (45)	300 (1136)	10
	7	0.8 (45)	350 (1325)	10
	8	0.8 (45)	400 (1514)	8

Typical Effluent Quality

Effluent quality is dependent on a number of factors, including influent characteristics and loading rates. Figure 3 shows third party, NSF/ANSI Standard 40 testing results. The results demonstrate that moderate loading rates typically produce CBOD₅ and TSS of about 5 mg/L average, while higher loading rates produce CBOD₅ and TSS in the range of 15-25 mg/L.

Pump Discharge, 2-Comp. Recirculating Tank



Design Loading Rates

Oranco's suggested design loading rates are based upon the average influent strength characteristics shown in Table 1 and occupancy or typical per capita flow rates (60-60 gpd/person or 189-227 L/day/person) as shown in Table 2.

Table 2. Treatment Unit Recommendations

Number of Bedrooms	Number of Occupants	Septic Tank Size, gal. (L)	AX-RT Model
1-4	8	1000 (3800)	AX20-RT
5	10	1250 (4732)	AX25-RT
6	12	1500 (5676)	AX25-RT

Performance

Performance is a function of the expected typical loads with periodic weekly highs. Typically, the daily mass loading is based on the expected daily flows and actual strength. Oranco's AX-RT units are listed as NSF/ANSI Standard 40 Class 1 Treatment Units and are suitable for residences with up to 6 bedrooms. For applications with more than 6 bedrooms, contact Oranco.

Advantex Control System

Critical to the success of the Advantex Treatment System is the method by which the effluent is loaded onto the textile sheets. Over the past three decades, timer-controlled applications have played an essential role in optimizing the performance of both fixed and suspended-growth biological systems. A timer-controlled pump in the treatment tank periodically doses effluent to the distribution manifold over the textile sheets. The effluent then percolates through the textile media and is treated by naturally occurring microorganisms that populate the filter. During periods of high flow, a timer override float will temporarily modify the timer settings to process the additional flow. Conversely, during periods of low flow, the timer settings can be modified to reduce loading onto the filter.

Key functions of the VeriComm Monitoring System include:

- Automatic notification of alert and alarm conditions for service providers
- Self-adjustment based on trend data of system use, compensating for greater-than-average and less-than average flows
- Remote adjustment of settings
- Standard monthly call-in to Web site under normal operation

U.S. Patent # 4,983,322
5,492,838-8,372,837-4,361,686
5,990,746-5,001,694-4,982,991
Other Patents Pending
© 2002 Oranco Systems, Inc.

Designed By: ENGINEERING
Drawn By: CHRIS JORDAN
Checked By: J. OF J.
Date Approved:

Title: AX20RT - Mode 1B
Drawing No.: MW-ATX-RT-03
Date: 1/26/2005
Scale: 1" = 20"

DATE

REVISIONS

NO.

DRAWN BY FK & HL
DESIGNED BY FK & HL
CHECKED BY FK & HL
SCALE AS NOTED

C-3
DATE APRIL 2014
SHEET 3 OF 4

CHRISTOPHER ESVELD
5407 TEN OAKS ROAD, DAYTON, MD. 21036
TELEPHONE: (HOME) 301-359-2223; (MOBILE): 240-426-0472

SITE ENGINEERS, LLC
ENGINEERS - ARCHITECTS - PLANNERS

7809 ANTOPI STREET, ANNANDALE, VIRGINIA 22003
TEL.: 703-635-6364 FAX.: 703-573-2467
PROJECT MANAGER: HIEN LE
EMAIL: hl.ste_engineers@yahoo.com

Site Plan for BAT Installation

LOT 2 - 3, 8457 A - 4507 TEN OAKS RD. - MITCHELL PROPERTY
5TH ELECTION DISTRICT - ACCOUNT NUMBER: 444896
HOWARD COUNTY, MARYLAND

STATE OF MARYLAND
FREDERIC W. KRESS
42556
PROFESSIONAL ENGINEER

"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. 42556, Expiration Date: 7/31/14"

Signature: [Signature] 5/14/14

OF ENVIRONMENTAL TECHNOLOGY FOR QUALIFIED DESIGNERS

SEQUENCE NO. 2929

STATE OF MARYLAND
WELL COMPLETION REPORT

IS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

WELL PERMIT NO. 95-0502

Location of property (road) St. Johns Rd.

well driller Michael J. Mitchell

owner William J. Mitchell

DATE WELL COMPLETED 3/30/05

DEPTH OF WELL 360'

WELL LOG

WELL HAS BEEN Cased (C) or Drilled (D) (Check appropriate box)

TYPE OF CASING MATERIAL (Check one)

CASING RECORD

NO. OF BAGS 11 NO. OF POUNDS 736

DEPTH OF GROUT SEAL (in nearest foot)

WATER LEVEL (distance from land surface)

BEFORE PUMPING 22.2

WHEN PUMPING 22.2

TYPE OF PUMP USED (for test)

TYPE OF PUMP INSTALLED

DRILLER INSTALLED PUMP (CHECK) (YES OR NO)

IF DRILLER INSTALLED PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED

PLACEMENT OF PUMP

CAPACITY GALLONS PER MINUTE (to nearest gallon)

PUMP HORSE POWER

PUMP COLUMN LENGTH (nearest ft)

CASING HEIGHT (to nearest foot)

LAND SURFACE

LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANK, AND JOB LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)

DRILLERS LIC. NO. M.S.D. 224

DRILLER SIGNATURE Michael J. Mitchell

DATE 3/30/05

WELL SUPERVISOR SIGNATURE Michael J. Mitchell

Page 1 of 1

Date 3/30/05

Review

PITFALL SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. 95-0502

Location of property (road) St. Johns Rd.

well driller Michael J. Mitchell

owner William J. Mitchell

DATE WELL COMPLETED 3/30/05

DEPTH OF WELL 360'

WATER LEVEL (distance from land surface)

BEFORE PUMPING 22.2

WHEN PUMPING 22.2

TYPE OF PUMP USED (for test)

TYPE OF PUMP INSTALLED

DRILLER INSTALLED PUMP (CHECK) (YES OR NO)

IF DRILLER INSTALLED PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED

PLACEMENT OF PUMP

CAPACITY GALLONS PER MINUTE (to nearest gallon)

PUMP HORSE POWER

PUMP COLUMN LENGTH (nearest ft)

CASING HEIGHT (to nearest foot)

LAND SURFACE

LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANK, AND JOB LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)

DRILLERS LIC. NO. M.S.D. 224

DRILLER SIGNATURE Michael J. Mitchell

DATE 3/30/05

WELL SUPERVISOR SIGNATURE Michael J. Mitchell

Howard County Health Department

7178 Columbia Gateway Drive, Columbia, MD 21046
(410) 313-2460 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-213-6300
website www.hchealth.org

Penny E. Bozenstein, M.D., M.P.H., Health Officer
March 8, 2005

Mr. Mitchell
4451 Ten Oaks Road
Clarksville MD 21029

RE: PERCOLATION TEST RESULTS
Tax Map 28, Parcel 243
Mitchell Property, conformation holes

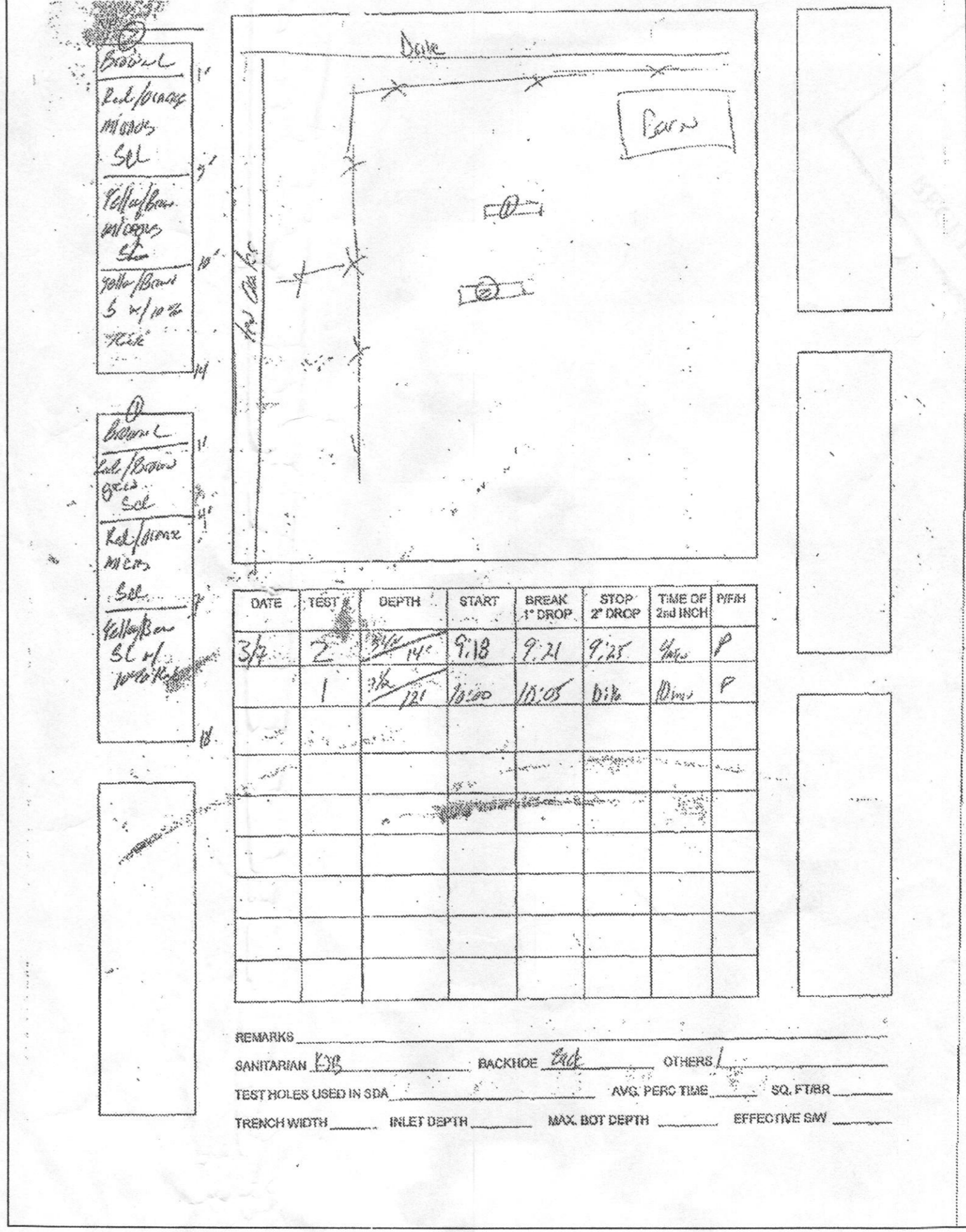
To Whom It My Concern:

Percolation testing conducted March 7, 2005 on the referenced property indicated satisfactory soil conditions. Copies of the test results are enclosed.

If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-1771.

Sincerely,
Kermit Bell
Water and Sewer Program
Developmental Coordination Section

KJB
Enclosures
Cc: EDE, Inc. (Steve Heiss)
File



AX-RT Residential Design Criteria (cont.)

System Requirements

Residential Strength Wastewater

Residential wastewater must meet the criteria listed in Table 1.

Table 1. Residential Strength Wastewater (Septic Tank Effluent Characteristics)

Characteristic	Average (mg/L)	Weekly Peak (mg/L)	Rarely Exceed (mg/L)
CBOD ₅	130	200	300
TSS	40	60	150
TKN	65	75	150
G&O	20	25	25

Biotope Effluent Filter

An Orenco Biotope® effluent filter is required to be installed on the septic tank outlet preceding an AX-RT Treatment System. The effluent filter should have a minimum surface area of 5 ft² (0.46 m²). Any of the following Orenco effluent filters can be used: FT0822-14B, FTW0444-36V, or FT50444-36V.

Recirc Pumping Equipment

The AX-RT Treatment Unit includes an Orenco recirculation pumping system, consisting of an Orenco multi-stage effluent pump and a float switch assembly, housed in an integral pump vault.

Table 2. Treatment Unit Recommendations

Number of Bedrooms	Number of Occupants	Septic Tank Size, gal. (L)	AX-RT Model
1-4	8	1000 (3800)	AX20-RT
5	10	1250 (4732)	AX25-RT
6	12	1500 (5678)	AX25-RT

The information in Table 2 is based on a mean hydraulic loading rate of 29.1 gpd/ft² (1184 L/m²/day) for all residential AX-RT units. The nominal hydraulic loading rate is 25 gpd/ft² (1019 L/m²/day). In jurisdictions where the nominal hydraulic loading rate does not exceed 500 gpd (2000 L/day), a single AX20-RT unit may be used as long as the system's anticipated treatment levels (see Figure 4) meet local requirements. For homes with more than 6 bedrooms or homes that are larger than 5000 ft² (465 m²), contact Orenco.

Peak hydraulic loading rates may reach 1000 gpd (3785 L). Hydraulic loading rates may need to be adjusted to compensate for high organic or nitrogen influent concentrations.

Performance is a function of the expected typical loads with periodic weekly highs. Typically, the daily mass loading is based on the expected daily flows and actual strength. Orenco's AX-RT units are listed as NSF/ANSI Standard 40 Class I Treatment Units and are suitable for residences with up to 6 bedrooms. For applications with more than 6 bedrooms, contact Orenco.

AX-RT Residential Design Criteria (cont.)

Manifold Pressures

A manifold pressure of 3 to 3.5 psi (20.7 to 24.1 kPa) is used to determine the initial timer settings. Orenco Spin Nozzles typically operate at a flow rate of about 6 gpm (0.38 L/sec). The AX20-RT and AX20-RTUV Treatment Units have two nozzles on the manifold; AX25-RT Treatment Units have three nozzles on the manifold.

Recirculation Ratios and Timer Settings

Initial timer settings for an AX-RT should be established based upon expected average daily flows and a recirculation ratio of 4:1 (filter recirculation ratio). Table 3 provides recommended timer settings. If flows vary significantly from expected flows, timer settings should be adjusted accordingly. Contact Orenco for more information.

Table 3. Recommended Timer Settings for New Systems

Model	Number of Residents	Time On Setting (Sec)	Avg Daily Flow, gpd (L/day)	Time Off Setting (Min)
AX20-RT, AX20-RTUV	2	0.8 (45)	100 (379)	30
	3	0.8 (45)	150 (568)	20
	4	0.8 (45)	200 (757)	15
	5	0.8 (45)	250 (946)	15
	6	0.8 (45)	300 (1136)	10
	7	0.8 (45)	350 (1325)	10
	8	0.8 (45)	400 (1514)	8
Model	Number of Residents	Time On Setting (Sec)	Avg Daily Flow, gpd (L/day)	Time Off Setting (Min)
AX25-RT	2	1.0 (60)	100 (379)	40
	3	1.0 (60)	150 (568)	30
	4	1.0 (60)	200 (757)	20
	5	1.0 (60)	250 (946)	15
	6	1.0 (60)	300 (1136)	15
	7	1.0 (60)	350 (1325)	10
	8	1.0 (60)	400 (1514)	10
	9	1.0 (60)	450 (1703)	8
	10	1.0 (60)	500 (1893)	8
	11	1.0 (60)	550 (2082)	7
	12	1.0 (60)	600 (2271)	7

* Automatic notification of alert and alarm conditions for service providers

* Self-adjustment based on trend data of system use, compensating for greater-than-average and less-than average flows

* Remote adjustment of settings

* Standard monthly call-in to Web site under normal operation

Typical Effluent Quality

Effluent quality is dependent on a number of factors, including influent characteristics and loading rates. Figure 3 shows three different loading rates and their corresponding effluent quality. In Mode 3, nitrogen reduction can reach 70% or better (TN 20-), depending on wastewater strength and other characteristics like grease and oils, pH, and alkalinity concentrations.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

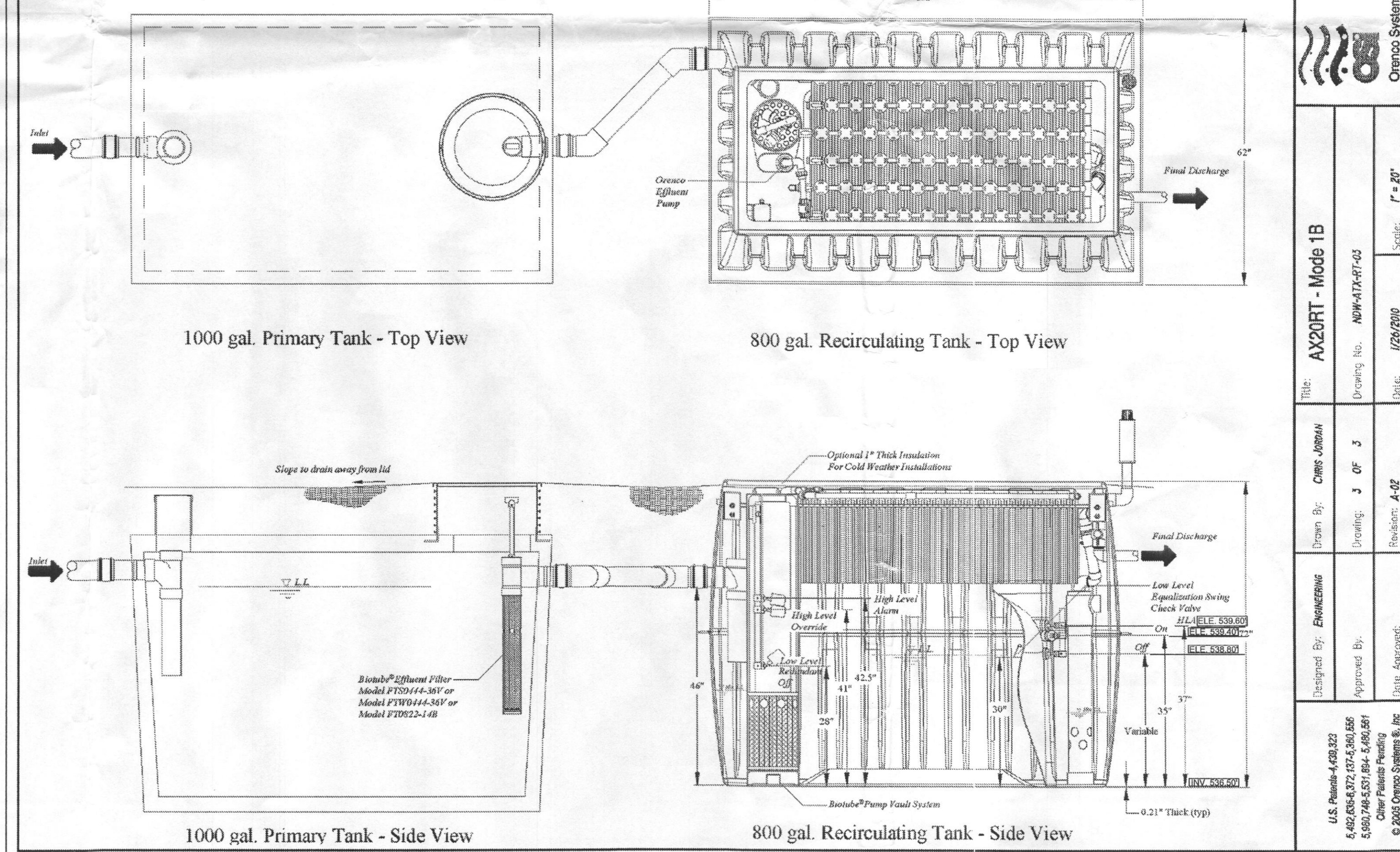
HOWARD COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DIRECTOR

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Pump Discharge, 2-Comp. Recirculating Tank



SITE ENGINEERS, LLC
ENGINEERS - ARCHITECTS - PLANNERS

7809 ANTIPOI STREET, ANNANDALE, VIRGINIA 22003
TEL: 703-635-6364 FAX: 703-573-2467

CHRISTOPHER ESVELD
4507 TEN OAKS ROAD, DAYTON, MD. 21036
TELEPHONE: (HOME) 301-359-2223; (MOBILE): 240-426-0472

Site Plan for BAT Installation

LOT 2 - 3.8457 A - 4507 TEN OAKS RD - MITCHELL PROPERTY
5TH ELECTION DISTRICT - ACCOUNT NUMBER: 444896
HOWARD COUNTY, MARYLAND

DATE

REVISIONS

NO.

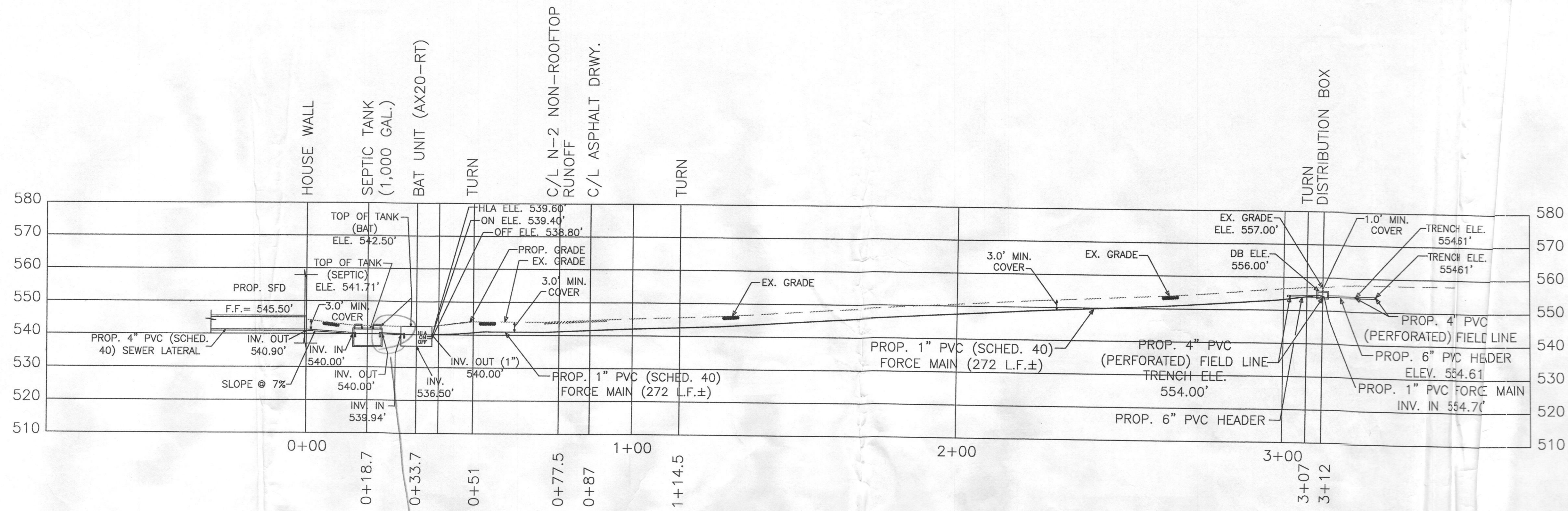
U.S. Patent 4,238,323
6,602,054-5,372, 13,745, 260, 565
5,937, 248-5,571, 684, 5,480, 581
Other Patents Pending
© 2005 Orenco Systems, Inc.

U.S. Patent 4,238,323
6,602,054-5,372, 13,745, 260, 565
5,937, 248-5,571, 684, 5,480, 581
Other Patents Pending
© 2005 Orenco Systems, Inc.

STATE OF MARYLAND
FREDERICK W. WESSER
42556
PROFESSIONAL ENGINEER

DRAWN BY FK & HL
DESIGNED BY FK & HL
CHECKED BY FK & HL
SCALE AS NOTED

C-3
DATE APRIL 2014
SHEET 3 OF 4

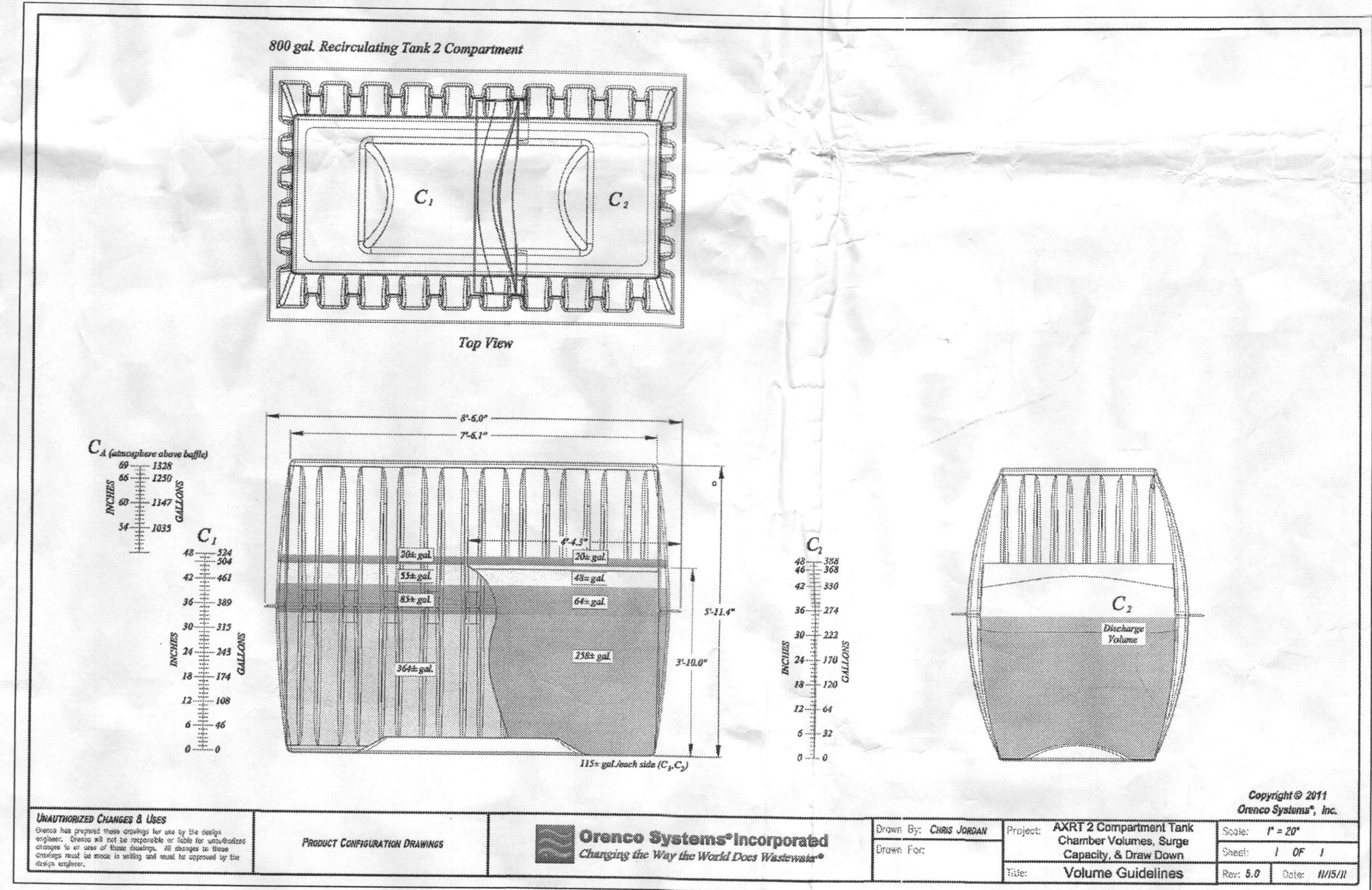
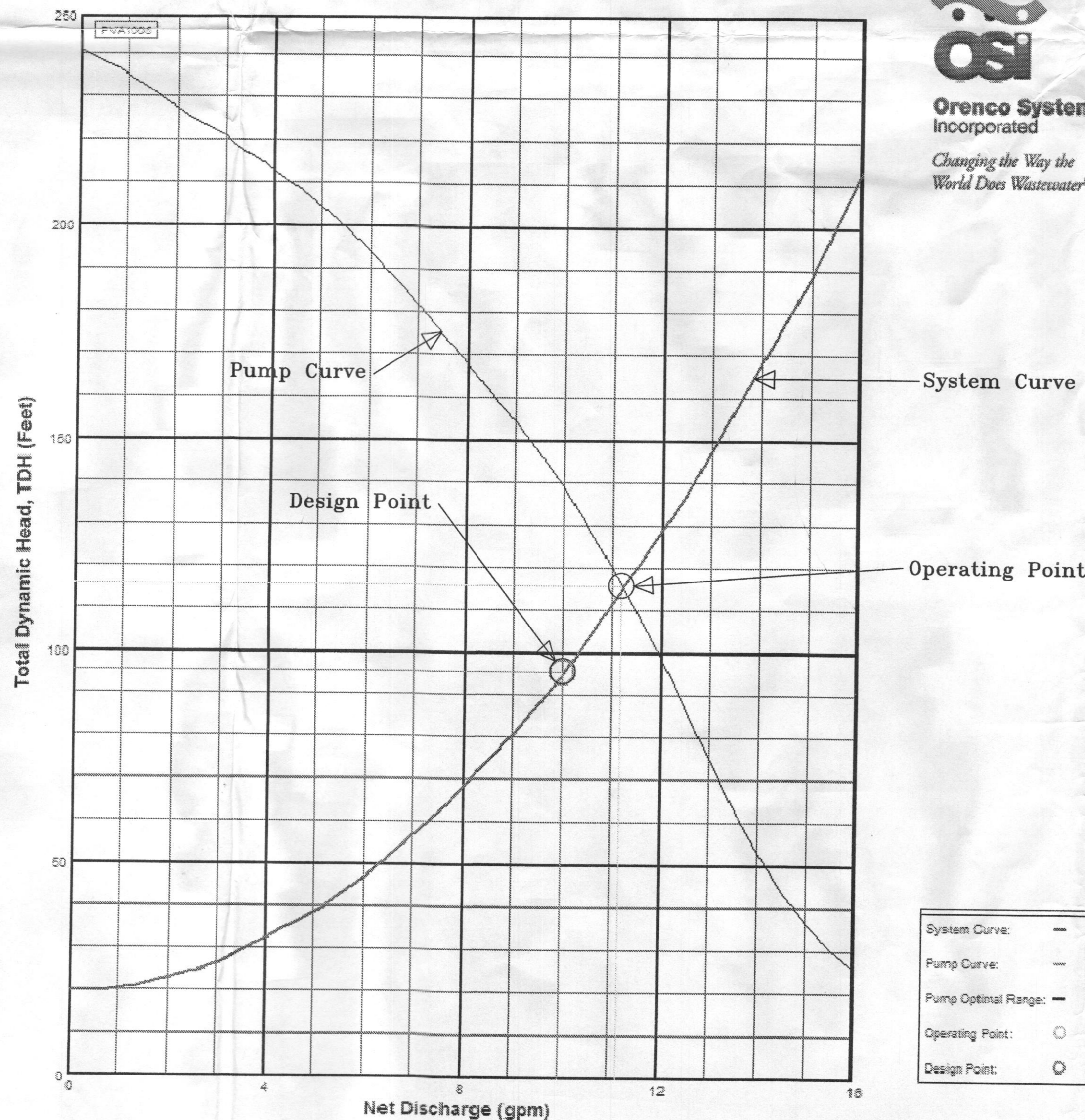


BAT SYSTEM PROFILE

SCALE: 1" = 20'

Pump Selection for a Non-Pressurized System - Single Family Residence Project

Parameters	
Discharge Assembly Size	1.0FC inches
Transport Length	272 feet
Transport Pipe Class	40
Transport Line Size	2.00 inches
Distributing Valve Model	None
Max Elevation Lift	20 feet
Design Flow Rate	10 gpm
Flow Meter	None inches
'Add-on' Friction Losses	0 feet
Calculations	
Transport Velocity	0.9 fps
Frictional Head Losses	
Loss through Discharge	75.0 feet
Loss in Transport	0.6 feet
Loss through Valve	0.0 feet
Loss through Flowmeter	0.0 feet
'Add-on' Friction Losses	0.0 feet
Pipe Volumes	
Vol of Transport Line	47.4 gals
Minimum Pump Requirements	
Design Flow Rate	10.0 gpm
Total Dynamic Head	95.6 feet



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DIRECTOR _____

CHIEF, DEVELOPMENT ENGINEERING DIVISION _____ DATE _____

"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. 42556. Expiration Date: 7/21/14."

Signature: *[Signature]* 5/14/14



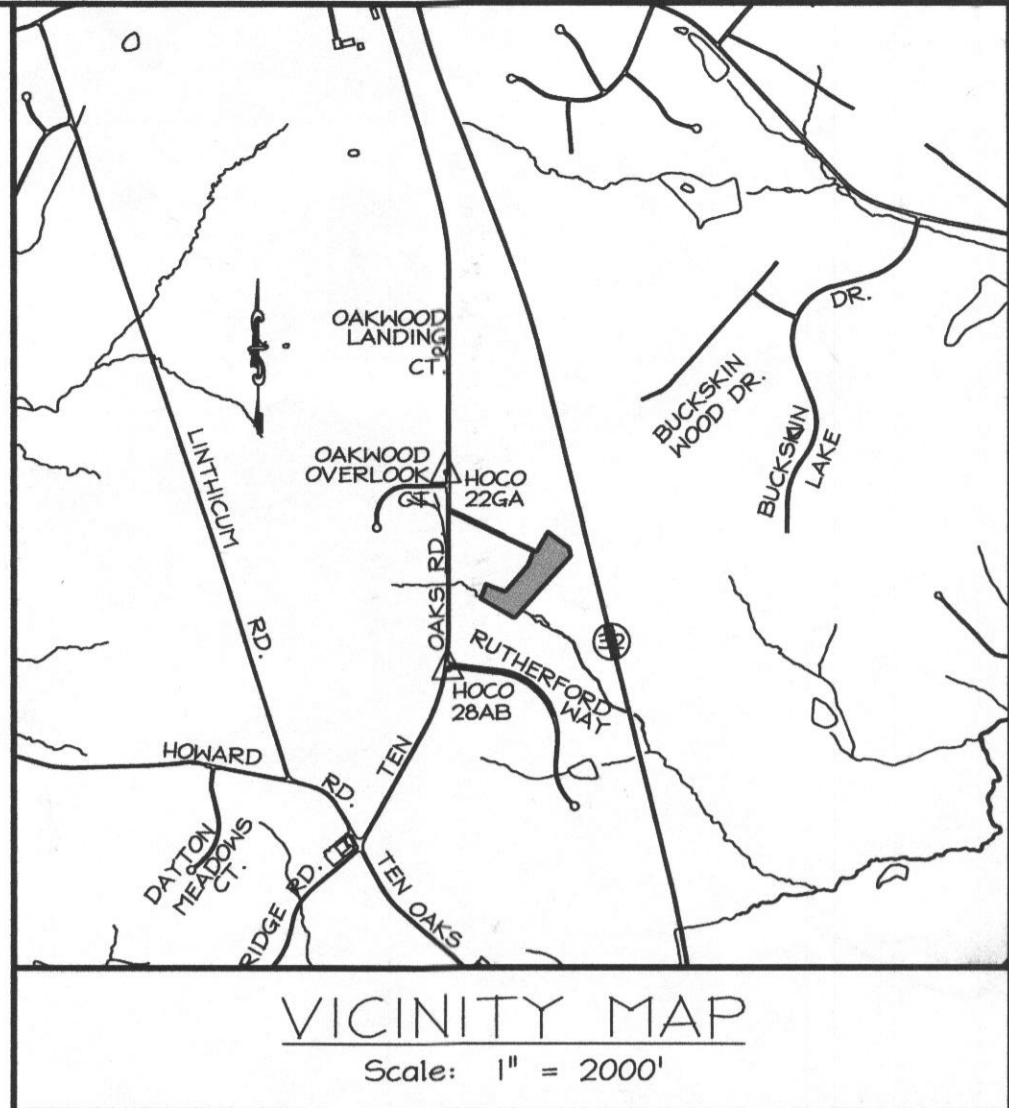
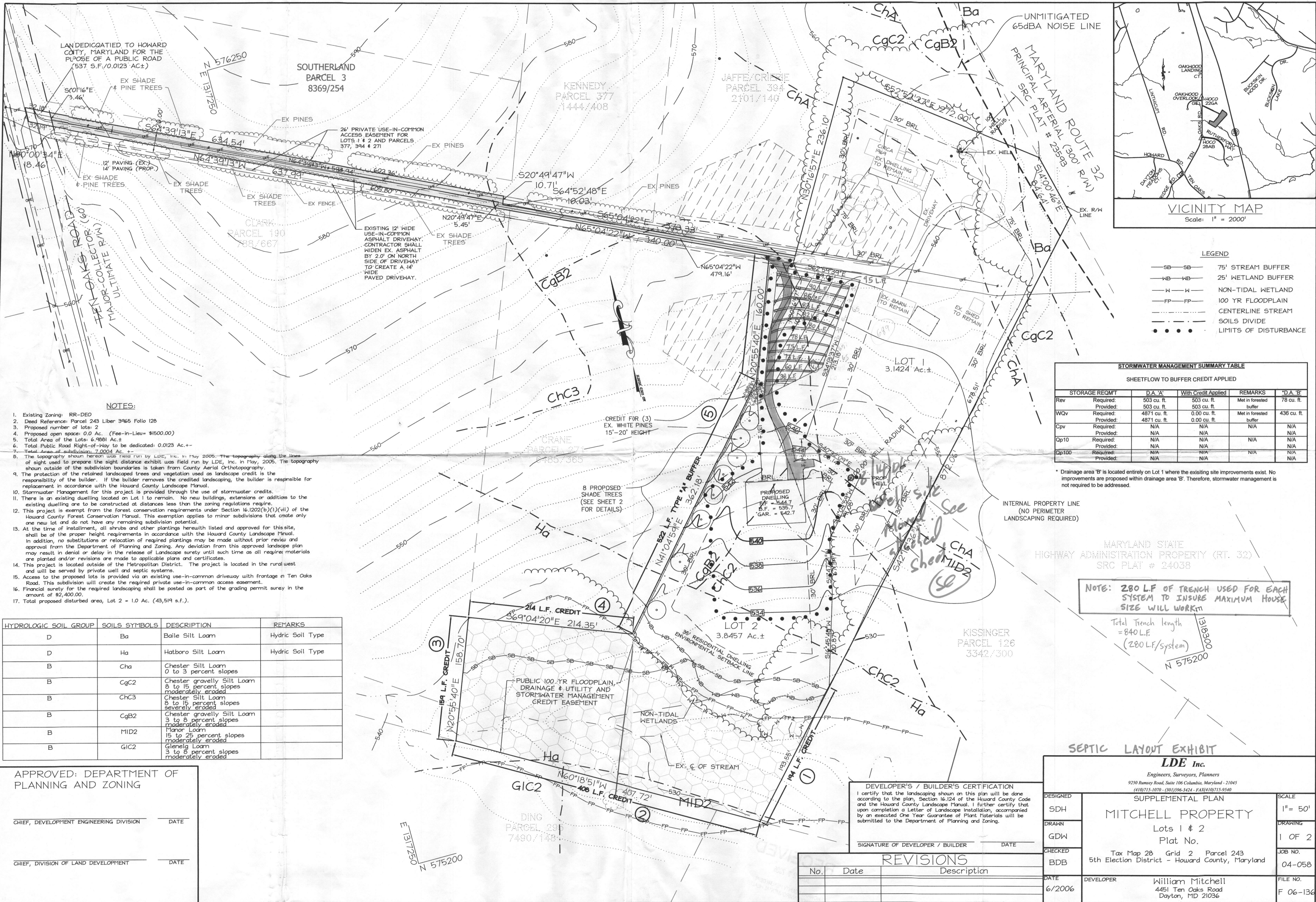
SITE ENGINEERS, LLC
 ENGINEERS - ARCHITECTS - PLANNERS
 7809 ANTIQUP STREET, ANNANDALE, VIRGINIA 22003
 TEL.: 703-635-6364 FAX.: 703-573-2467
 PROJECT MANAGER: HIEN LE
 EMAIL: hi.site_engineers@yahoo.com

CHRISTOPHER ESVELD
 4507 TEN OAKS ROAD, DAYTON, MD. 21036
 TELEPHONE: (HOME) 301-359-2223; (MOBILE): 240-426-0472
Site Plan for BAT Installation
 LOT 2 - 3-8457 A - 4507 TEN OAKS RD - MITCHELL PROPERTY
 5TH ELECTION DISTRICT - ACCOUNT NUMBER: 444896
 HOWARD COUNTY, MARYLAND

NO.	REVISIONS	DATE



DRAWN BY FK & HL
 DESIGNED BY FK & HL
 CHECKED BY FK & HL
 SCALE AS NOTED



LEGEND

- SB—SB— 75' STREAM BUFFER
- WB—WB— 25' WETLAND BUFFER
- W—W— NON-TIDAL WETLAND
- FP—FP— 100 YR FLOODPLAIN
- — — — — CENTERLINE STREAM
- — — — — SOILS DIVIDE
- LIMITS OF DISTURBANCE

STORMWATER MANAGEMENT SUMMARY TABLE

SHEETFLOW TO BUFFER CREDIT APPLIED

STORAGE REQMT	D.A. 'A'	With Credit Applied	REMARKS	'D.A. B'
Rev	Required: 503 cu. ft. Provided: 503 cu. ft.	503 cu. ft.	Met in forested buffer	78 cu. ft.
WQv	Required: 4871 cu. ft. Provided: 4871 cu. ft.	0.00 cu. ft.	Met in forested buffer	436 cu. ft.
Cpv	Required: N/A Provided: N/A	N/A	N/A	N/A
Op10	Required: N/A Provided: N/A	N/A	N/A	N/A
Op100	Required: N/A Provided: N/A	N/A	N/A	N/A

* Drainage area 'B' is located entirely on Lot 1 where the existing site improvements exist. No improvements are proposed within drainage area 'B'. Therefore, stormwater management is not required to be addressed.

MARYLAND STATE HIGHWAY ADMINISTRATION PROPERTY (RT. 302) SRC PLAT # 24038

NOTE: 280 L.F. OF TRENCH USED FOR EACH SYSTEM TO INSURE MAXIMUM HOUSE SIZE WILL WORK!!

Total Trench length = 840 L.F.
(280 L.F./system)

- NOTES:**
- Existing Zoning: RR-DEO
 - Deed Reference: Parcel 243 Liber 3965 Folio 126
 - Proposed number of lots: 2
 - Proposed open space: 0.0 Ac. (Fee-in-Lieu= \$1500.00)
 - Total Area of the Lots: 6.9881 Ac.±
 - Total Public Road Right-of-Way to be dedicated: 0.0123 Ac.±
 - Total Area of subdivision: 7.0004 Ac.±
 - The topography shown herein was field run by LDE, Inc. in May 2005. The topography along the lines of sight used to prepare the sight distance exhibit was field run by LDE, Inc. in May, 2005. The topography shown outside of the subdivision boundaries is taken from County Aerial Orthotopography.
 - The protection of the retained landscaped trees and vegetation used as landscape credit is the responsibility of the builder. If the builder removes the credited landscaping, the builder is responsible for replacement in accordance with the Howard County Landscape Manual.
 - Stormwater Management for this project is provided through the use of stormwater credits.
 - There is an existing dwelling located on Lot 1 to remain. No new buildings, extensions or additions to the existing dwelling are to be constructed at distances less than the zoning regulations require.
 - This project is exempt from the forest conservation requirements under Section 16.1202(b)(1)(vii) of the Howard County Forest Conservation Manual. This exemption applies to minor subdivisions that create only one new lot and do not have any remaining subdivision potential.
 - At the time of installation, all shrubs and other plantings herewith listed and approved for this site, shall be of the proper height requirements in accordance with the Howard County Landscape Manual. In addition, no substitutions or relocation of required plantings may be made without prior review and approval from the Department of Planning and Zoning. Any deviation from this approved landscape plan may result in denial or delay in the release of Landscape Surety until such time as all required materials are planted and/or revisions are made to applicable plans and certificates.
 - This project is located outside of the Metropolitan District. The project is located in the rural/west and will be served by private well and septic systems.
 - Access to the proposed lots is provided via an existing use-in-common driveway with frontage on Ten Oaks Road. This subdivision will create the required private use-in-common access easement.
 - Financial surety for the required landscaping shall be posted as part of the grading permit surety in the amount of \$2,400.00.
 - Total proposed disturbed area, Lot 2 = 1.0 Ac. (43,519 s.f.).

HYDROLOGIC SOIL GROUP	SOILS SYMBOLS	DESCRIPTION	REMARKS
D	Ba	Baile Silt Loam	Hydic Soil Type
D	Ha	Hatboro Silt Loam	Hydic Soil Type
B	Cha	Chester Silt Loam 0 to 3 percent slopes	
B	CgC2	Chester gravelly Silt Loam 8 to 15 percent slopes moderately eroded	
B	ChC3	Chester Silt Loam 8 to 15 percent slopes severely eroded	
B	CgB2	Chester gravelly Silt Loam 3 to 8 percent slopes moderately eroded	
B	MID2	Manor Loam 15 to 25 percent slopes moderately eroded	
B	GIC2	Glensig Loam 3 to 8 percent slopes moderately eroded	

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION _____ DATE _____

CHIEF, DIVISION OF LAND DEVELOPMENT _____ DATE _____

DEVELOPER'S / BUILDER'S CERTIFICATION

I certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Code and the Howard County Landscape Manual. I further certify that upon completion a Letter of Landscape Installation, accompanied by an executed One Year Guarantee of Plant Materials will be submitted to the Department of Planning and Zoning.

SIGNATURE OF DEVELOPER / BUILDER _____ DATE _____

REVISIONS

No.	Date	Description

SEPTIC LAYOUT EXHIBIT

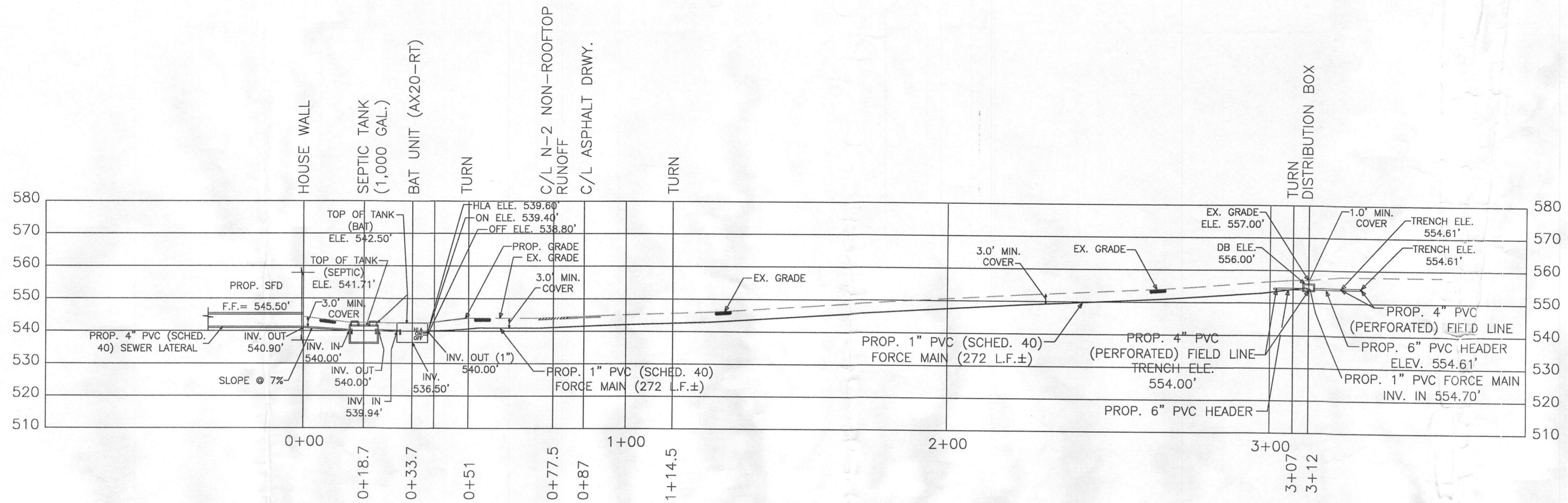
LDE Inc.
Engineers, Surveyors, Planners
9230 Ramsey Road, Suite 106 Columbia, Maryland - 21045
(410)715-1070 - (301)596-3424 - FAX(410)715-9540

DESIGNED: SDH
DRAWN: GDW
CHECKED: BDB

SUPPLEMENTAL PLAN
MITCHELL PROPERTY
Lots 1 & 2
Plat No. _____
Tax Map 28 Grid 2 Parcel 243
5th Election District - Howard County, Maryland

DATE: 6/2006
DEVELOPER: William Mitchell
4451 Ten Oaks Road
Dayton, MD 21036

SCALE: 1" = 50'
DRAWING: 1 OF 2
JOB NO.: 04-058
FILE NO.: F 06-136



BAT SYSTEM PROFILE

SCALE: 1" = 20'

Pump Selection for a Non-Pressurized System - Single Family Residence Project

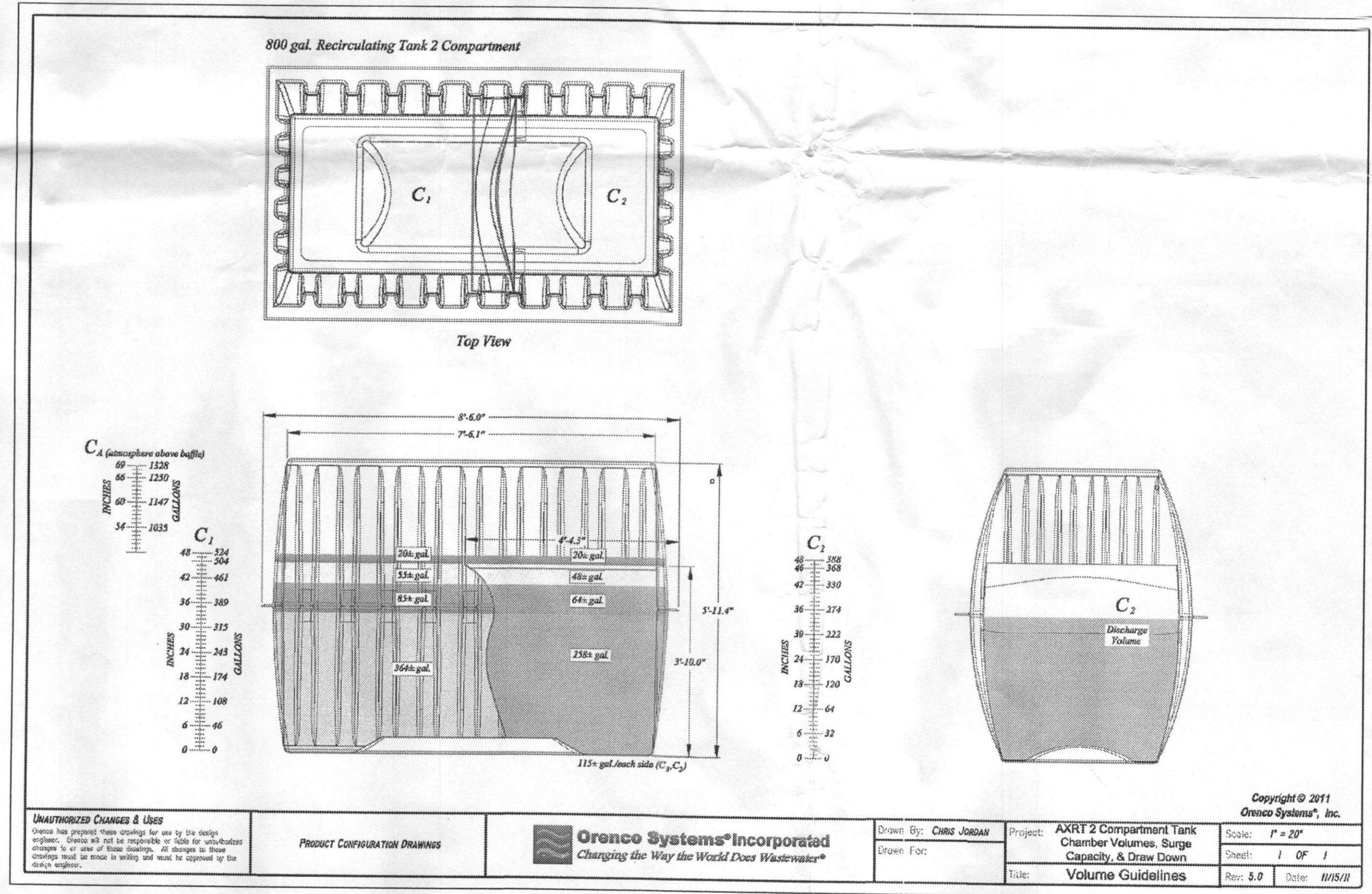
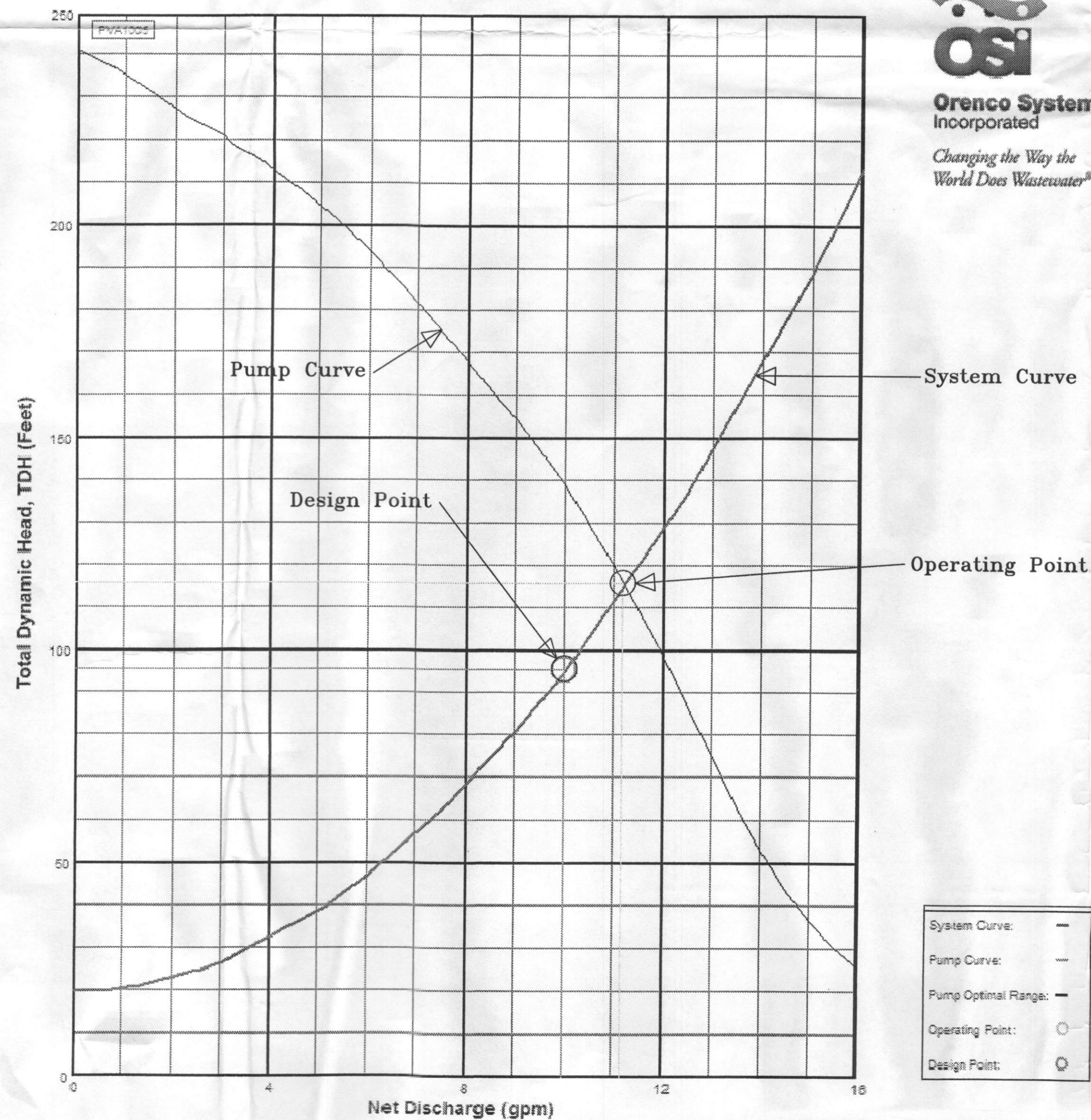
Parameters	
Discharge Assembly Size	1.0FC inches
Transport Length	272 feet
Transport Pipe Class	40
Transport Line Size	2.00 inches
Distributing Valve Model	None
Max Elevation Lift	20 feet
Design Flow Rate	10 gpm
Flow Meter	None inches
*Add-on Friction Losses	0 feet

Calculations	
Transport Velocity	0.9 fps

Frictional Head Losses	
Loss through Discharge	75.0 feet
Loss in Transport	0.8 feet
Loss through Valve	0.0 feet
Loss through Flowmeter	0.0 feet
*Add-on Friction Losses	0.0 feet

Pipe Volumes	
Vol of Transport Line	47.4 gals

Minimum Pump Requirements	
Design Flow Rate	10.0 gpm
Total Dynamic Head	95.6 feet



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DIRECTOR _____

CHIEF, DEVELOPMENT ENGINEERING DIVISION _____ DATE _____

"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. 42556, Expiration Date: 7/1/14"

Signature: *[Signature]*

5/14/14

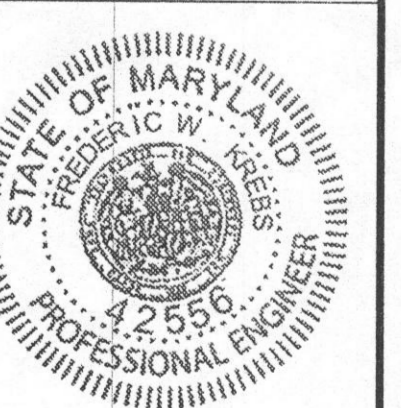
SITE ENGINEERS, LLC
ENGINEERS - ARCHITECTS - PLANNERS

7609 ANTIPOI STREET, ANNANDALE, VIRGINIA 22003
TEL.: 703-635-6364 FAX.: 703-573-2467
PROJECT MANAGER: HIEN LE
EMAIL: hi.site_engineers@yahoo.com

CHRISTOPHER ESVELD
4507 TEN OAKS ROAD, DAYTON, MD, 21036
TELEPHONE: (HOME) 301-359-2223; (MOBILE): 240-426-0472

Site Plan for BAT Installation
LOT 2 - 3.8457 A - 4507 TEN OAKS RD - MITCHELL PROPERTY
5TH ELECTION DISTRICT - ACCOUNT NUMBER: 444896
HOWARD COUNTY, MARYLAND

NO.	REVISIONS	DATE



DRAWN BY FK & HL
DESIGNED BY FK & HL
CHECKED BY FK & HL
SCALE AS NOTED

C-4
DATE APRIL 2014
SHEET 4 OF 4

Geisert, Andrew

From: Geisert, Andrew
Sent: Wednesday, May 07, 2014 3:21 PM
To: 'hl.site_engineers@yahoo.com'
Subject: 4507 Ten Oaks (Mitchell Property) BAT Plan Review

Hien Le,

I have reviewed you Bat Plan submission. The following are my 1st revisions:

- Trenches in system must be equal length
- Must have elevations for pump on/off floats
- Must have spot elevations over tank, BAT, distribution box, and each trench

On BAT system Profile

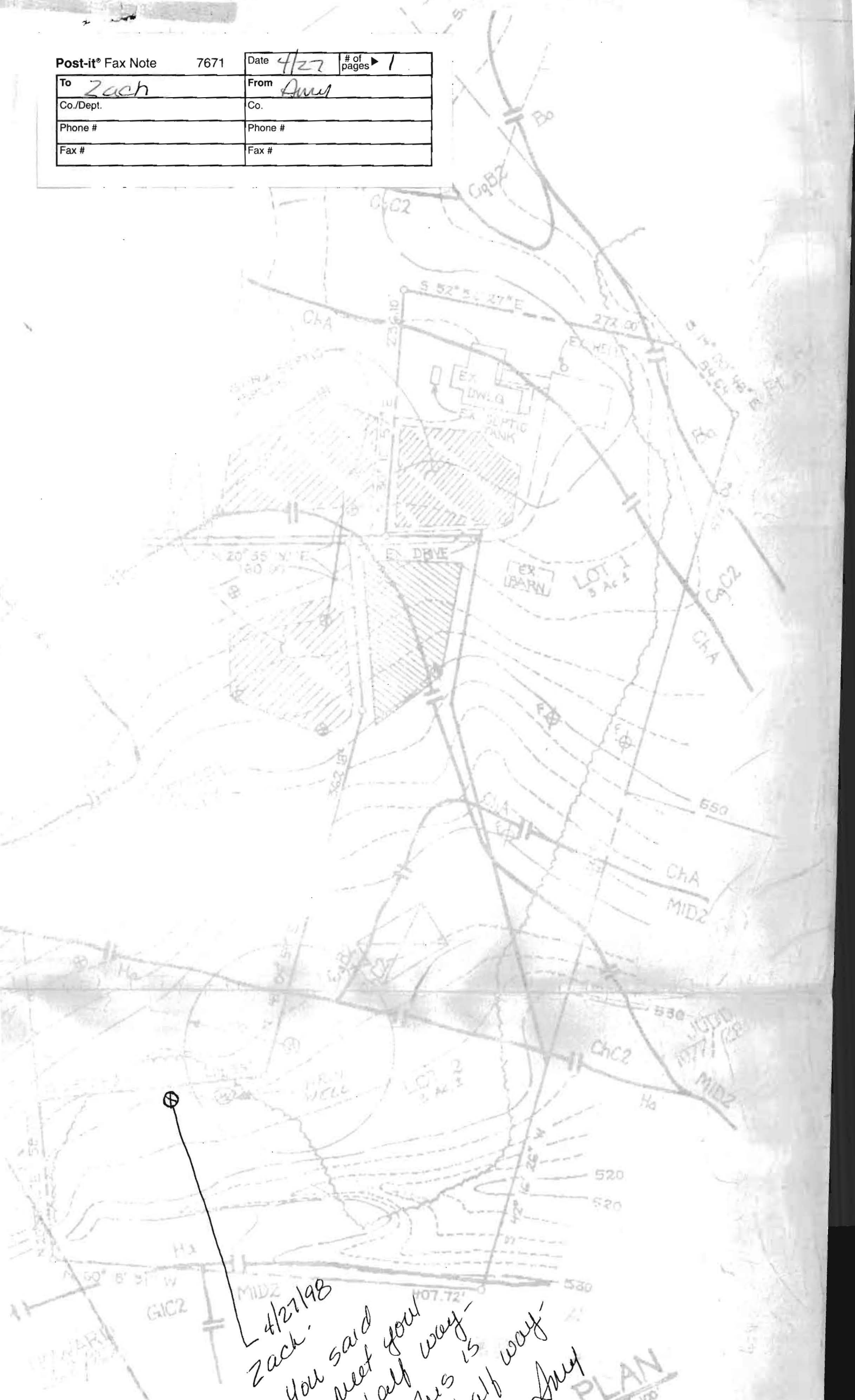
- Elevations required
 - Top of tank
 - Inv out of house
 - Inv out of septic tank
 - Inv into BAT
 - Inv out of BAT
 - Proposed grade over septic tank
 - Proposed grade over BAT
 - Proposed grade over distribution box
 - Inv into distribution box
 - Inv into trench

Andrew Geisert
Environmental Sanitarian Supervisor
Howard County Health Department
Bureau of Environmental Health
Office: 410-313-6287
Fax: 410-313-2648
ageisert@howardcountymd.gov

CONFIDENTIALITY NOTICE

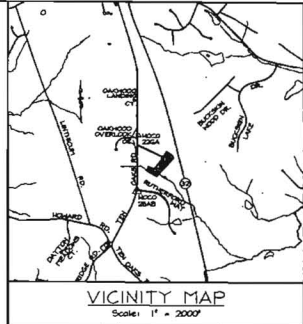
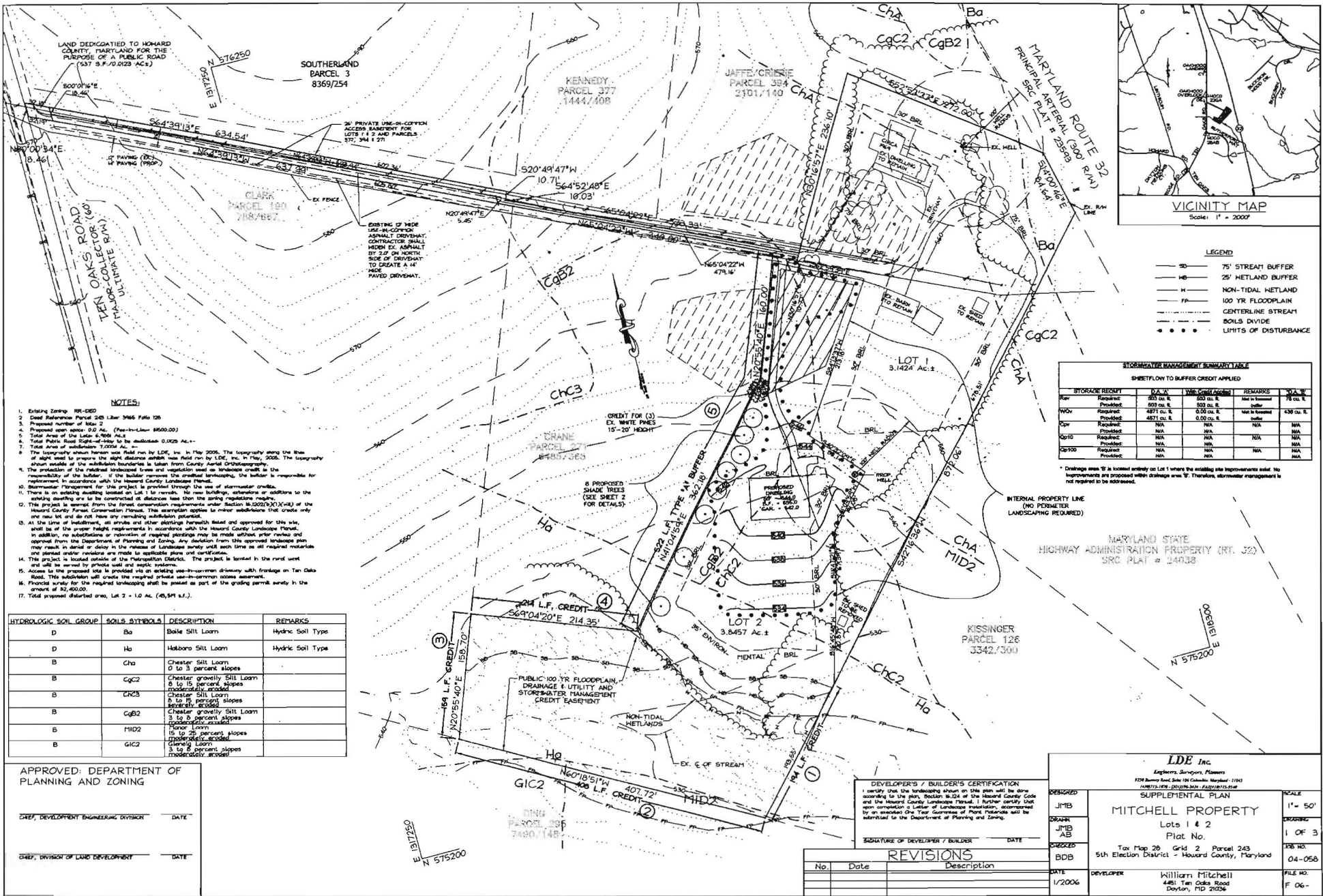
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Co./Dept.		Co.			
Phone #		Phone #			
Fax #		Fax #			



L 4/27/98
 Zach.
 you said
 meet you
 half way -
 this is
 half way -
 Amy

PLAN
 SCALE: 1" = 100'



LEGEND

- 75' STREAM BUFFER
- 25' WETLAND BUFFER
- H NON-TIDAL WETLAND
- 100 YR FLOODPLAIN
- CENTERLINE STREAM
- BOLLS DIVIDE
- LIMITS OF DISTURBANCE

STORMWATER MANAGEMENT SCHEDULE

SHEETFLOW TO BUFFER CREDIT APPLIED

STORMWATER PROTECT	D.A.	WATER CREDIT	REMARKS	N.A.
Run	Required: 200 cu. ft.	Provided: 200 cu. ft.	Met in Stream	78 cu. ft.
WQV	Required: 4871 cu. ft.	Provided: 4871 cu. ft.	Met in Stream	438 cu. ft.
Scp	Required: N/A	Provided: N/A	N/A	N/A
Scp10	Required: N/A	Provided: N/A	N/A	N/A
Scp100	Required: N/A	Provided: N/A	N/A	N/A

* Drainage area "W" is located entirely on Lot 1 where the existing site improvements exist. No improvements are proposed within drainage area "W". Therefore, stormwater management is not required to be addressed.

INTERNAL PROPERTY LINE
(NO PERIMETER LANDSCAPING REQUIRED)

MARYLAND STATE
HIGHWAY ADMINISTRATION PROPERTY (RT. 30)
SRC PLAT # 24038

KISSINGER
PARCEL 126
J342/300

- NOTES:**
- Existing zoning: RR-DEO
 - Deed Reference Parcel 245 Liber 9666 Page 106
 - Proposed number of lots: 2
 - Proposed open space: 2.0 Ac. (Per-Low 8800.00)
 - Total Area of the Lots: 6.986 Ac.
 - Total Public Road Right-of-Way to be addressed: 0.028 Ac.
 - Total area of subdivision: 7.004 Ac.
 - The topography shown herein was field run by LDE, Inc. in May 2006. The topography along the line of sight used to prepare the sight distance studies was field run by LDE, Inc. in May 2006. The topography shown outside of the subdivision boundaries is taken from County Aerial Orthophotography.
 - The projection of the related topographic lines and vegetation used as landscape credit is the responsibility of the builder. If the builder removes the existing landscaping, the builder is responsible for replacement in accordance with the Howard County Landscape Plan.
 - Stormwater management for this project is provided through the use of stormwater credits.
 - There is an existing building located on Lot 1 to remain. No new buildings, alterations or additions to the existing building are to be constructed at discrete lots that the zoning regulations require.
 - The project is exempt from the forest conservation requirements under Section 8.02(2)(X)(iii) of the Howard County Forest Conservation Plan. The applicant agrees to never subdivisions that create only one new lot and do not have any remaining subdivision potential.
 - At the time of subdivision, all articles and other documents heretofore filed and approved for this site, as well as of the proper height requirements in accordance with the Howard County Landscape Plan. In addition, no substitutions or revisions of required plantings may be made without prior notice and approval from the Department of Planning and Zoning. Any deviation from the approved landscape plan may result in denial or delay in the release of landscape surety until such time as all required materials are planted and/or replanted are made to applicable plans and certification.
 - The project is located outside of the Prince Georges District. The project is located in the rural area and will be served by private well and septic system.
 - Access to the proposed lots is provided via an existing use-in-common driveway with frontage on Ten Oaks Road. This subdivision will create the required private use-in-common access easement.
 - Frontage surety for the required landscaping shall be posted as part of the grading permit surety in the amount of \$2,400,000.
 - Total proposed disturbed area, Lot 2 = 1.0 Ac. (4,854 S.F.).

HYDROLOGIC SOIL GROUP	SOILS SYMBOLS	DESCRIPTION	REMARKS
D	Ba	Belle Silt Loam	Hydric Soil Type
D	Ha	Holboro Silt Loam	Hydric Soil Type
B	Cha	Chester Silt Loam 0 to 3 percent slopes	
B	CgC2	Chester gravelly Silt Loam 8 to 15 percent slopes moderately eroded	
B	CR2B	Chester Silt Loam 8 to 15 percent slopes CHESTER 2B0000	
B	CgB2	Chester gravelly Silt Loam 3 to 8 percent slopes moderately eroded	
B	MID2	Middleton Silt Loam 15 to 25 percent slopes moderately eroded	
B	GIC2	Glenny Silt Loam 3 to 6 percent slopes moderately eroded	

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DEVELOPER'S / BUILDER'S CERTIFICATION

I certify that the landscaping shown on this plan will be done according to the plan, Section 8.04 of the Howard County Code and the Howard County Landscape Plan. I further certify that upon completion of a Letter of Landscape Finality, accompanied by an executed One Year Guarantee of Plant Materials will be submitted to the Department of Planning and Zoning.

SIGNATURE OF DEVELOPER / BUILDER DATE

REVISIONS

No.	Date	Description

LDE Inc.
Engineers, Surveyors, Planners
1124 Rumbo Road, Suite 106 Columbia, Maryland 21041
(410) 733-1234 FAX (410) 733-1235

DESIGNED: JMB
DRAWN: JMB, AB
CHECKED: BDB
DATE: 1/2006

DEVELOPER: William Mitchell
481 Ten Oaks Road
Dayton, MD 21026

SUPPLEMENTAL PLAN
MITCHELL PROPERTY
Lots 1 & 2
Plot No. _____
Tax Map 28 Grid 2 Parcel 243
5th Election District - Howard County, Maryland

SCALE: 1" = 50'
DRAWING: 1 OF 3
JOB NO.: 04-058
FILE NO.: F 06-



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

Public Information Act Request Form

Property Information Requested:
Current Owner's Name: William Mitchell
Property Address: 4507 TENASKA RD, DISTON, MD 21036
Subdivision: MITCHELL PROPERTY
Lot #: 2
Tax Map: 28
Parcel: 243

Applicant's name: HIENLE
Address: 7809 ANTIOP? ST, MANASSAS, VA 22003
Phone #: 703-635-6364

Select from the following records:

Well & Septic Program

- Percolation Results
Well Completion Report
Other (specify)
Septic Construction Plan (As built)
Complete Lot File

Food Protection Program

- Inspection Report - Food Facility Name:
List of food facilities
Other (Please explain):

Community Hygiene Program

- Complaint Investigation Reports
Registered Storage Tanks
Rabies Case Reports
Well Water Sampling
Pool Inspection Records
Other

I understand that I will be charged \$.60 per page copied. If staff time in record retrieval takes more than two (2) hours, then a fee of \$25.00 per hour after two (2) hours will be assessed. Also, I do understand that I will not be able to request any proprietary information enclosed in the file and all copies larger than 11"x17" may best be provided by the proprietor of the document. I also realize that it may take up to thirty (30) days to process this request.

Please indicate preferred response method for your request:

Regular Mail Fax: Email: hl, Site_engineers@yahoo.com

Applicant's Name (please print): HIENLE

Applicant's Signature: [Signature]

Applicant's Fax #

Date: 1/16/2014

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