

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: 5/12/2015 **ONSITE SEWAGE DISPOSAL SYSTEM** P 5-56157

INSTALLATION APPROVAL DATE: 5/21/15 SEC **PERMIT** A _____

CONSTRUCTION

PROPERTY ADDRESS: 13614 Mitchells Way

SUBDIVISION: Cloverfield - Section II LOT: 10 TAX ID: 3-353486

CONTRACTOR: WTC Contractors EMAIL: _____

CONTRACTOR ADDRESS: 3033 Salem Bottom Road PHONE: 410.875.9771

PROPERTY OWNER: Spring Mill LLC EMAIL: _____

OWNER ADDRESS: PO BOX 417, E.C., MD 21041 PHONE: _____

BAT UNIT MODEL: Norweco TNT-600 PUMP SIZE: _____ PUMP TANK CAPACITY: _____

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

TRENCHES:	LINEAR FEET REQUIRED: <u>126 L.F.</u>	INLET DEPTH: <u>3.5 FT</u>
	TRENCH WIDTH: <u>2 FT</u>	MAXIMUM BOTTOM DEPTH: <u>6 FT</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10 FT</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3 FT</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:	Use 2 - 63 L.F. of trench for initial system.	

ISSUED BY: Hank Oswald ISSUE DATE: 5/12/2015 EXPIRATION DATE: 5/12/2016

- 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

TRENCH/DRAINFIELD DATA

WIDTH INLET BOTTOM

3' 3.5' 6'

NUMBER OF TRENCHES 2

TOTAL LENGTH 129'

ABSORPTION AREA 387' + SIDEWALL

DISTRIBUTION BOX LEVEL YES

DISTRIBUTION BOX BAFFLE YES

DISTRIBUTION BOX PORT YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL YES

MANUFACTURER BACKRIVER

CAPACITY 1300 GAL

SEAM LOC TOP

TANK LID DEPTH 3'

BAFFLES NO

BAFFLE FILTER NO

MANHOLE LOC FRONT, MID, REAR

6" PORT LOC NONE

WATERTIGHT TEST NO

SLOTTED NO

DATE ON LID NONE

PUMP/SEPTIC TANK LEVEL

MANUFACTURER

CAPACITY GAL

SEAM LOC

TANK LID DEPTH

BAFFLES

BAFFLE FILTER

MANHOLE LOC

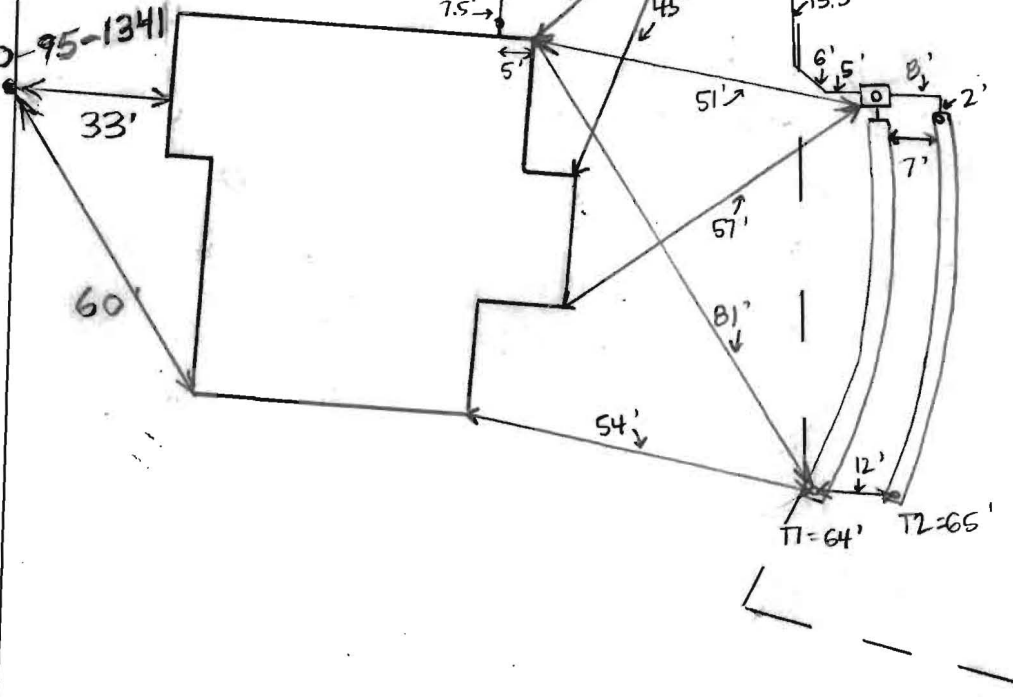
6" PORT LOC

WATERTIGHT TEST

SLOTTED

DATE ON LID

HO-95-1341



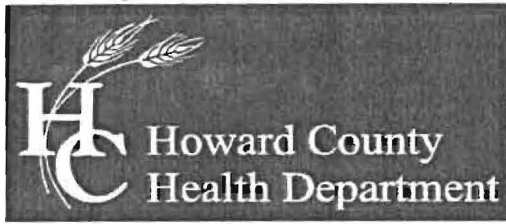
ROAD NAME

PRE-CONSTRUCTION

5/15/2015 Set the dist. box near the top center of the easement and install two 63' trenches on contour towards lot 11. Tank location is staked. (3B)

INSTALLATION: 5/19/15 House connection made. Tank, D-box, and trenches installed and all connections made. T1 open at ends, T2 covered. Need speed levelers in D-box and D-box leveled. (SC) 5/20/15 Speed levelers in D-box, leveled using water. Need PAT startup certification. (SC) 5/21/15 PAT startup certification received. (SC) 10/23/15 PAT startup. Alarm sounds and aerator works. Front and rear risers are at grade and need a 6" extension. (SC) 10/26/15 Front + rear risers on tank extend 6" above grade. (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 5/21/15



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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 4 day of October 2013, among Spring Mill LLC, hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at 13614 Mitchells Way, W. Friendship, MD 21794 (Lot 10), in the 03 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 11285 Folio 00664.

WHEREAS, The Lot is suitable for the installation of a conventional on-site sewage disposal system with an advanced pre-treatment system, utilizing best available technology to perform nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07, effective January 1, 2013.

NOW, THEREFORE, the parties hereto agree as follows:

- A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County to develop accurate and thorough test results.
- B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.
- C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.
- D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.
- E. This agreement shall run with the land and upon Owner's taking title to the Lot shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as

long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Lot that the system shall require maintenance or other attention. Upon taking title to the Lot, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

G. This agreement may be voided at any time at the discretion of the County.

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

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

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

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

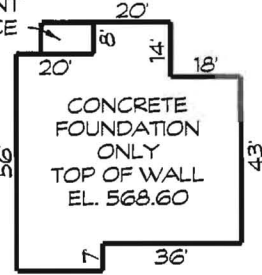
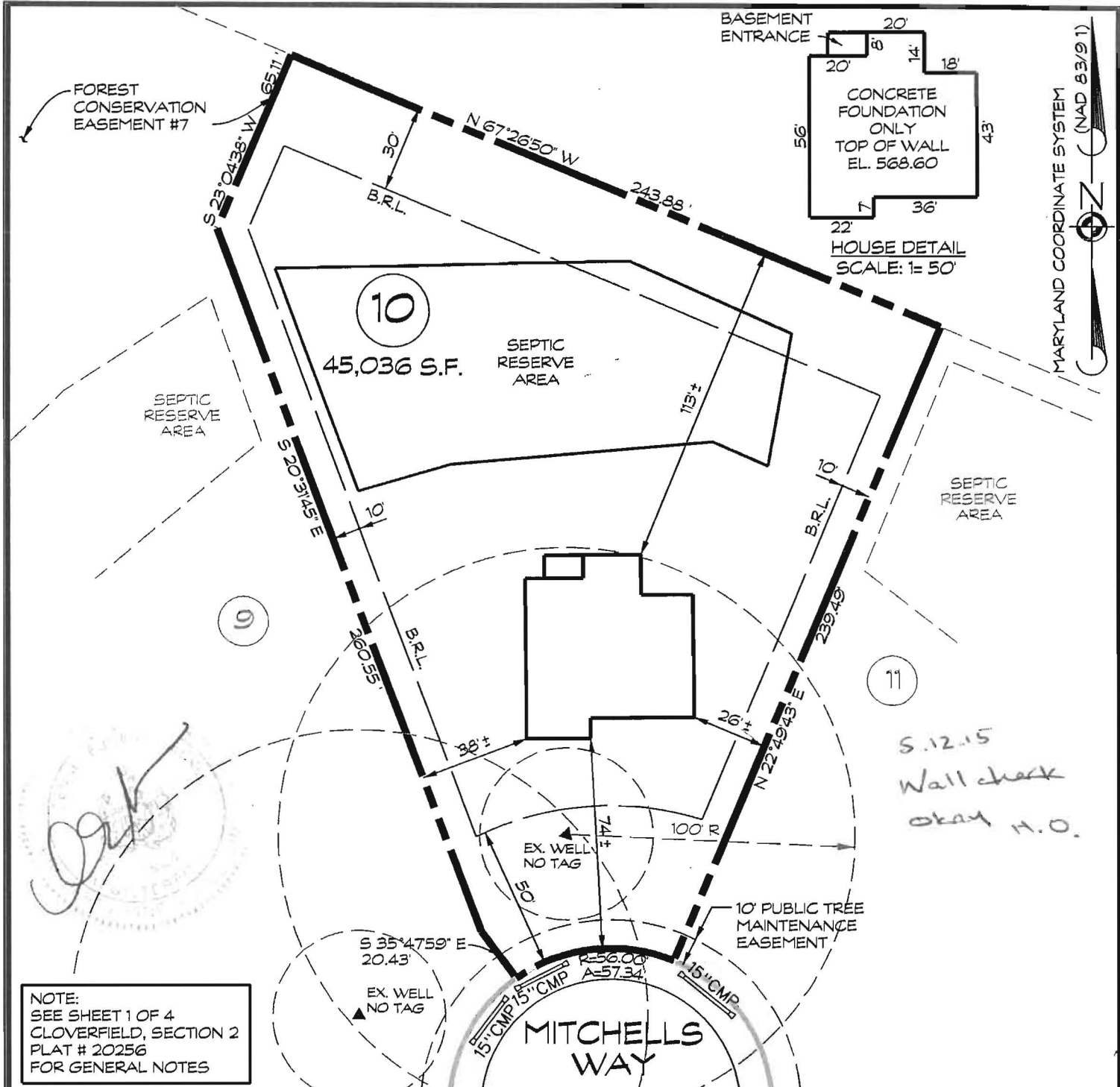
Spring Hill LLC
James R. Maxley III 10/4/13

Owner James R. Maxley, III Date

Owner Date

Bea Ryan 11/4/2013

Howard County Health Department



22' HOUSE DETAIL
SCALE: 1" = 50'

MARYLAND COORDINATE SYSTEM
(NAD 83/91)

NOTE:
SEE SHEET 1 OF 4
CLOVERFIELD, SECTION 2
PLAT # 20256
FOR GENERAL NOTES

I hereby certify that I have surveyed the property shown hereon for the sole purpose of locating the improvements. This plan is a benefit to the customer only in so far as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing or refinancing. It is not to be relied upon for the establishment of boundary, easement or right-of-way lines for any reason, such as the location of fences, garages, buildings, or other existing or future improvements. Offsets of buildings to property lines are to the nearest foot (1') unless otherwise noted.

FOUNDATION CERTIFICATION
#13614 MITCHELLS WAY
LOT 10
CLOVERFIELD
SECTION II

3RD ELECTION DISTRICT • HOWARD COUNTY, MD.
TAX MAP: 15 BLOCK: 7 PARCEL: 119
RECORDED PLAT NO. 22710

By: *Dennis E. Meckley* Date: *4/30/15*
Dennis E. Meckley Property Line Surveyor No. 10844
License expires March 29, 2016

A licensed Maryland Surveyor either personally prepared this Location Drawing, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with the Maryland Minimum Standards of Practice for Land Surveyors. (COMAR 09-13-06.06 AND .12)



439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

DRAWN BY:	MNM
DESIGN BY:	
REVIEW BY:	DEM
DATE:	4/20/15
SCALE:	1" = 50'
JOB NO:	2013039
SHEET:	1 OF 1

Back River Pre-Cast, LLC

PO BOX 329
Glyndon, MD 21071
Phone # 410-833-3394
Fax # 410-833-4116

Letter of Certification

This is to certify that the Norweco Singlair TNT 600 GPD Septic Tank installed at 13614 Mitchells Way, West Friendship, MD 21794 was installed on May 18, 2015 according to the manufacture's specifications.

Installer: Walter Coon

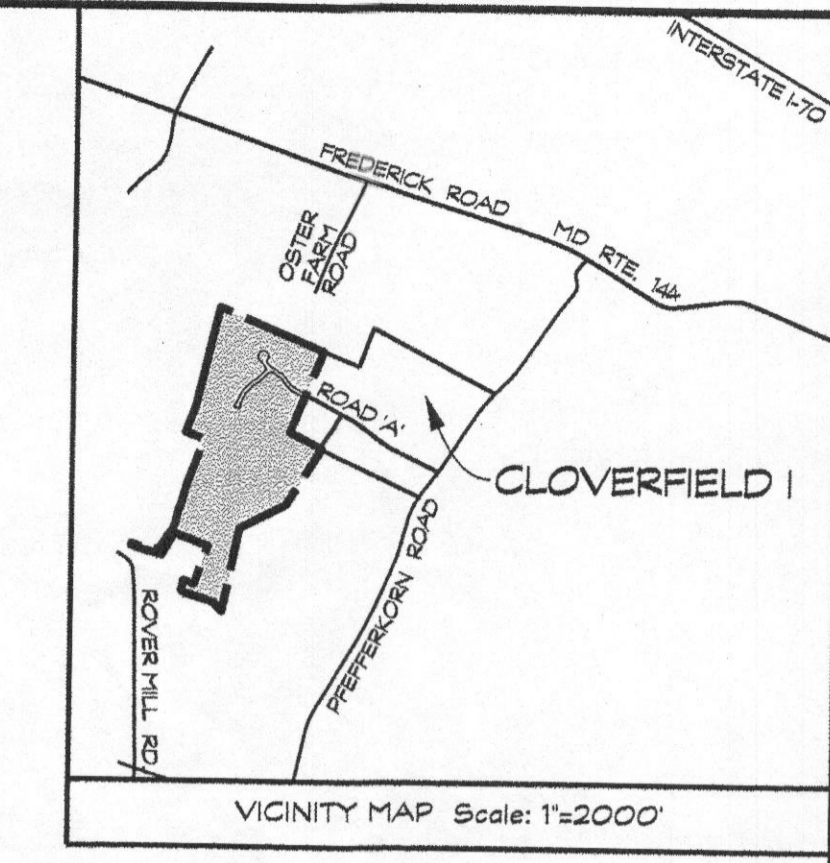
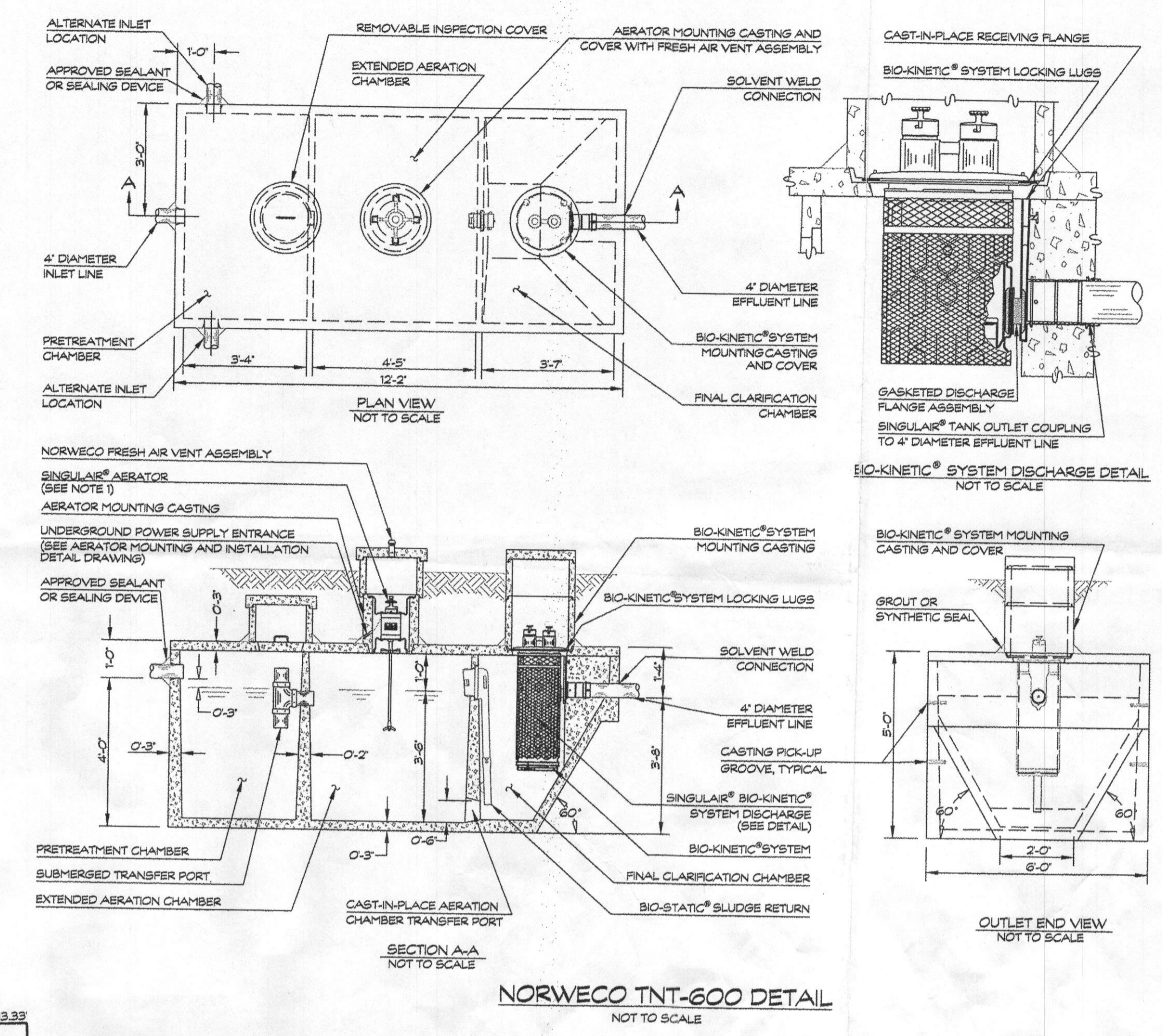
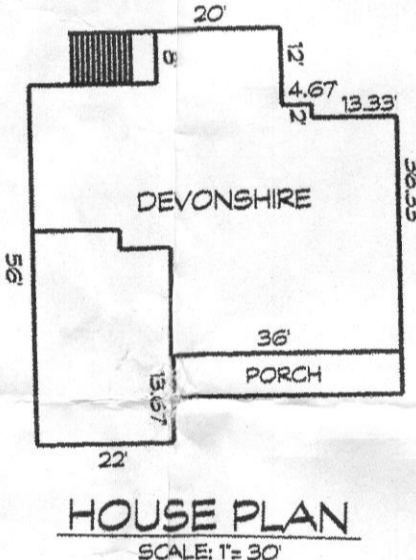
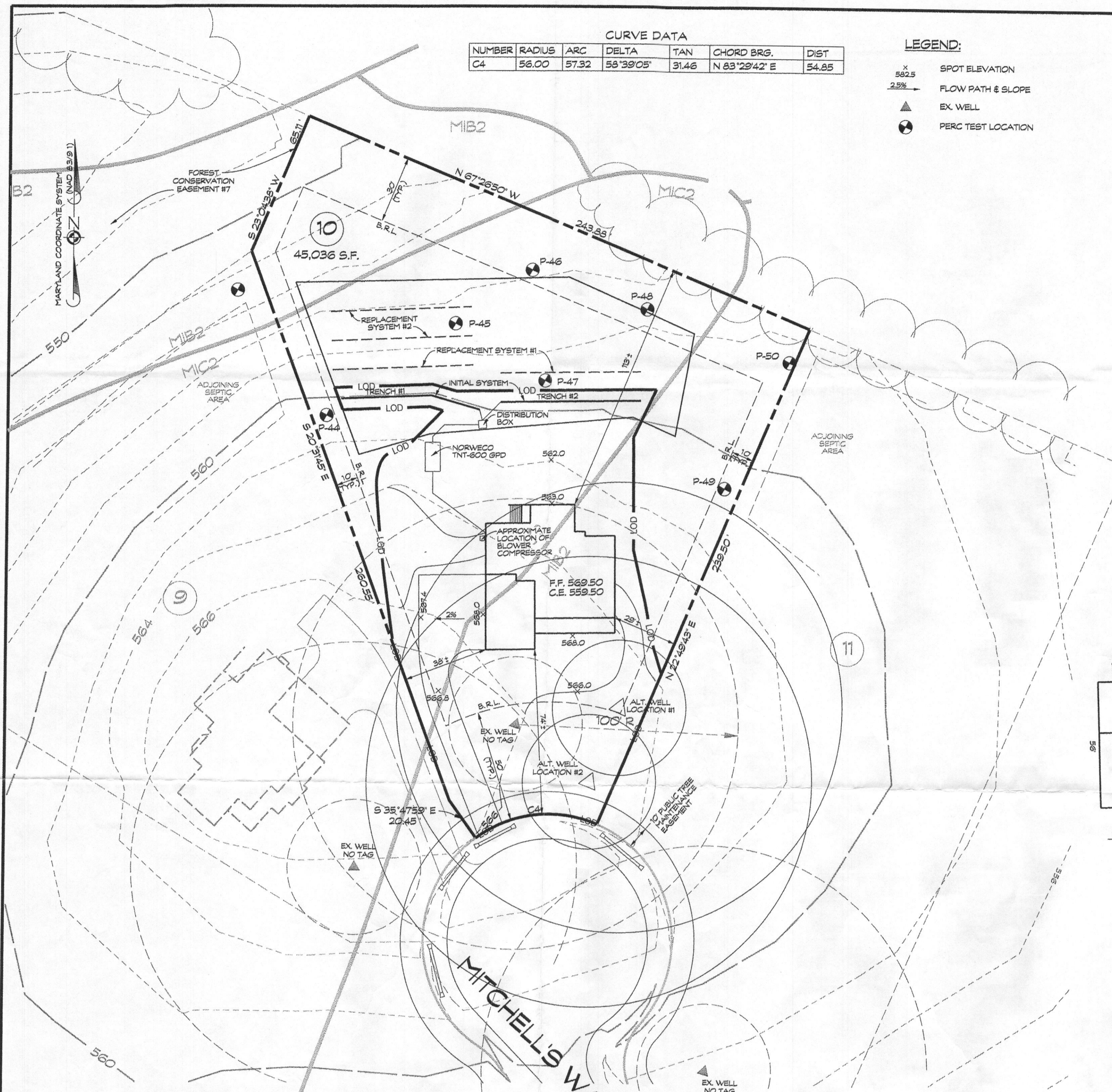
Property Owner: Catonsville Homes



MATTHEW GECKLE
Vice-President

NUMBER	RADIUS	ARC	DELTA	TAN	CHORD BRG.	DIST
C4	56.00	57.32	53°39'05"	31.46	N 83°29'42" E	54.85

LEGEND:
 562.5 SPOT ELEVATION
 2.3% FLOW PATH & SLOPE
 ▲ EX. WELL
 ● PERC TEST LOCATION



SEPTIC TANK NOTES

1. SINGULAR® AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 60 MINUTES ON / 60 MINUTES OFF.
2. FALL THROUGH SINGULAR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
3. ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE.
4. TANK REINFORCED PER ACI STD. 318-05.
5. REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
6. CONTACT THE LOCAL, LICENSED SINGULAR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

GENERAL NOTES

1. THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED OFF-SITE IN THE TWO MICROPOOL EXTENDED DETENTION FACILITIES AND GRASSED SWALES PER THE RECORDED PLAN NO. 20256.
2. THERE ARE NO STREAMS, PONDS, FLOODPLAINS, OR WETLANDS ON THIS LOT.
3. THERE ARE NO 20% OR GREATER SLOPES ON THIS LOT.
4. EXISTING WELL LOCATION IS FIELD LOCATED.

SEPTIC SYSTEM TRENCH DESIGN:

HOUSE SQUARE FOOTAGE: 2817 S.F.
 PROPOSED NUMBER OF BEDROOMS = 4
 AVERAGE PERCOLATION TEST TIME = 4 MINS.
 APPLICATION RATE = 1.2 GPD/SQ. FT.
 DESIGN FLOW: 600 GALS x 4 BEDROOM = 150 GAL/DAY
 600 GAL/DAY / 1.2 GAL/DAY/SQ. FT. = 500 SQ. FT.
 500 SQ. FT. / 2 FT. = 250 L.F. OF TRENCH
 250 L.F. x 50" = 125 L.F. OF TRENCH = 126 L.F.
 USE 2 - 63 L.F. OF TRENCH FOR INITIAL SYSTEM
 USE 2 - 63 L.F. OF TRENCH FOR EACH REPLACEMENT SYSTEM

TRENCH CHART

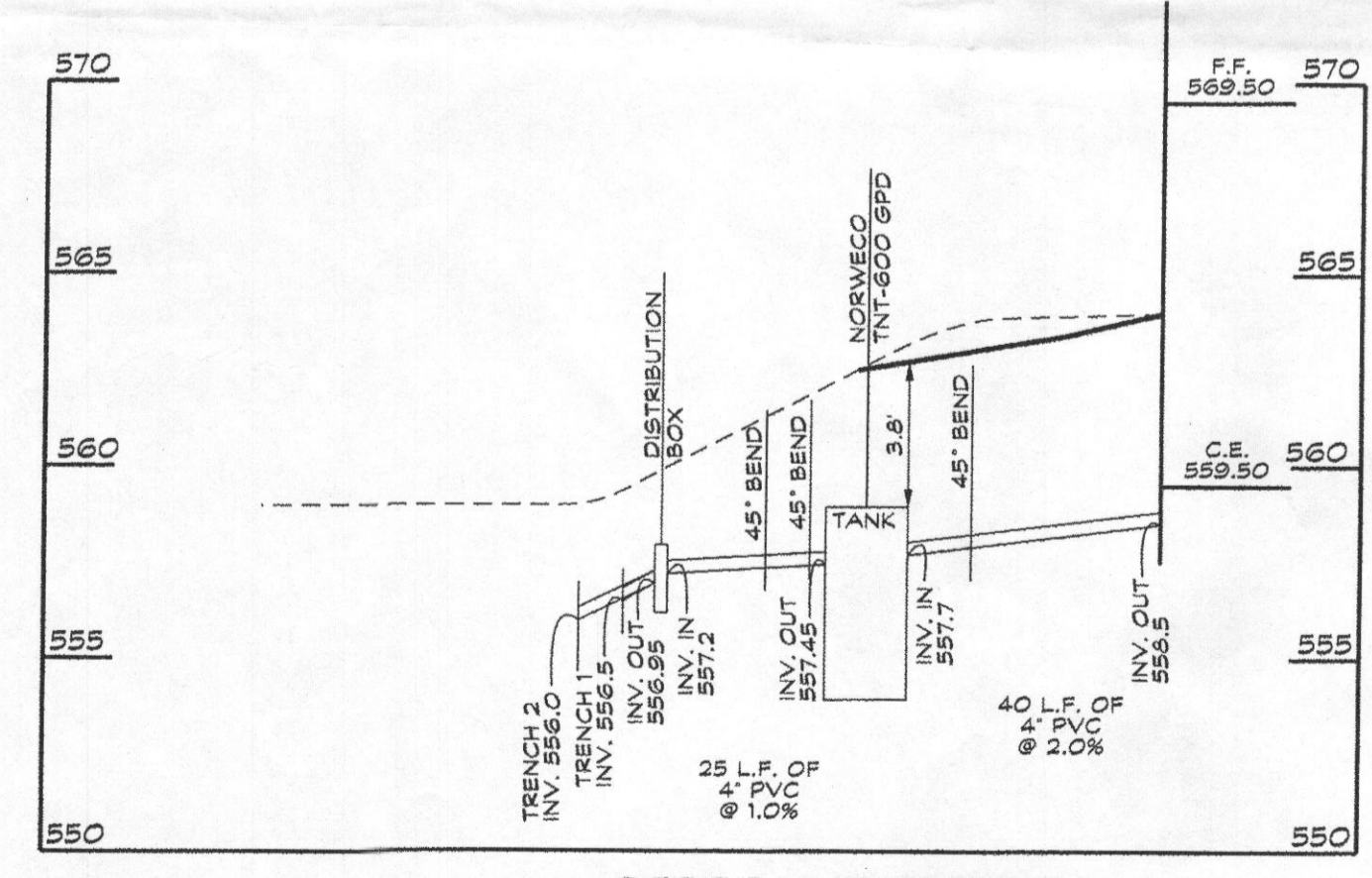
TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	560.0	556.5	554.0
2	559.5	556.0	553.5

LOD DENOTES LIMIT OF DISTURBANCE TOTAL AREA = 20,265 S.F.

PLAN SCALE: 1/8" = 1'-0"

BAT SITE PLAN NOTES

1. 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.
2. THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 4 FEET.
3. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
4. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
5. 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.
6. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
7. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OR HOWARD COUNTY.
8. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
9. THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON MANUFACTURER'S SPECIFICATIONS.



Approved Septic System Plan
 Howard County Health Department
 Hank Oswald 3/31/15
 Signature

SITE PLAN AND PLOT PLAN FOR BAT INSTALLATION

SPRINGS MILL LLC
 13614 MITCHELLS WAY
 TAX ACCOUNT NO.: 359446
 LOT 10

CLOVERFIELD- SECTION II

3RD ELECTION DISTRICT * HOWARD COUNTY, MD.
 TAX MAP: 15 BLOCK: 7 PARCEL: 119

Linda D. Alexander
 3-26-2015

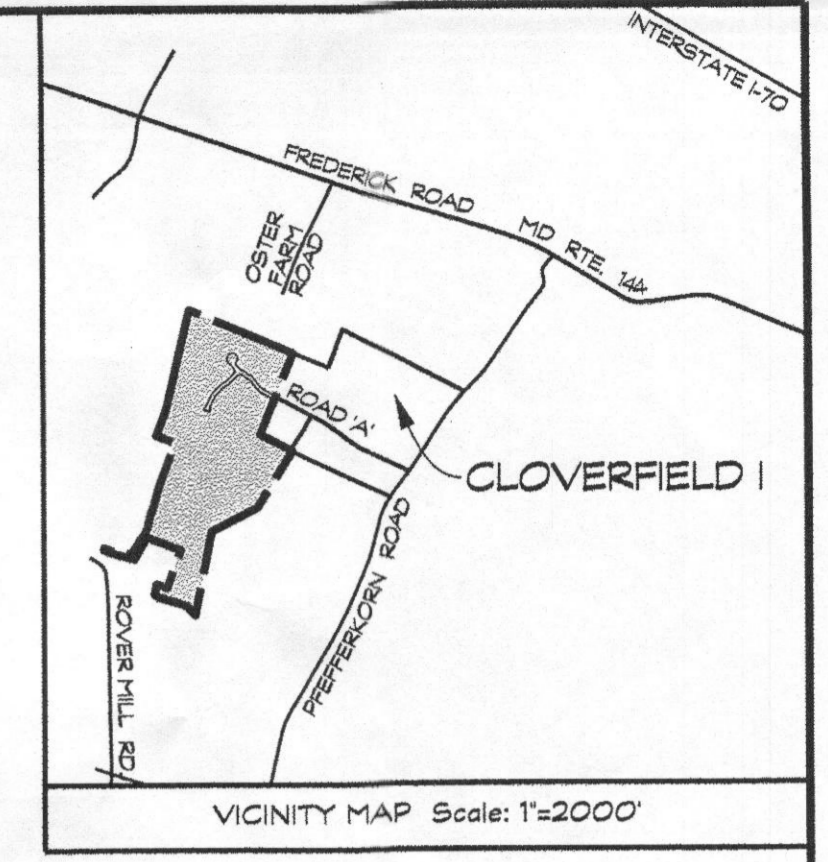
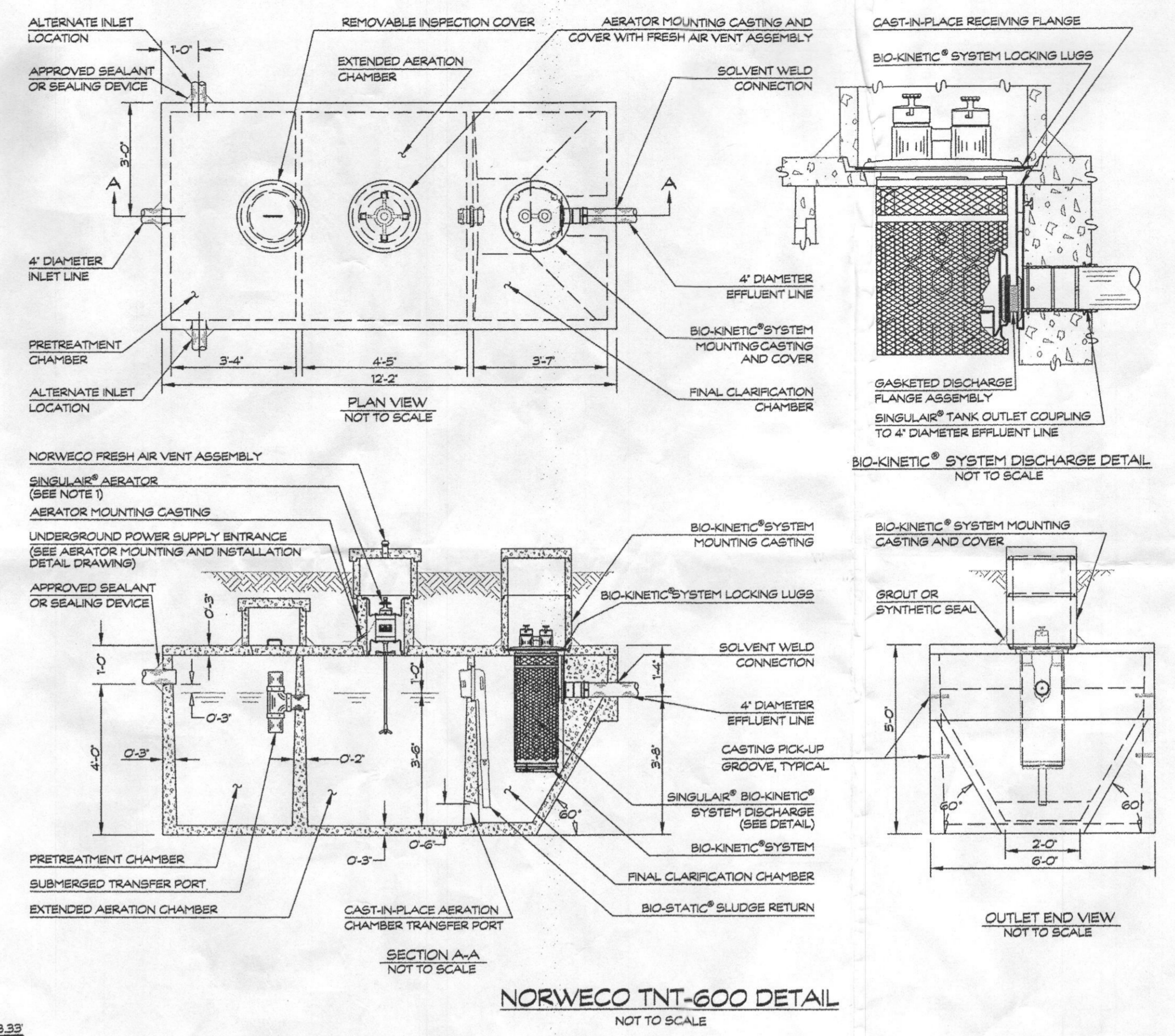
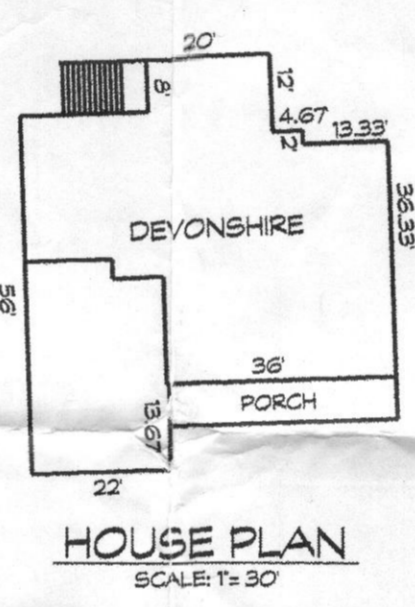
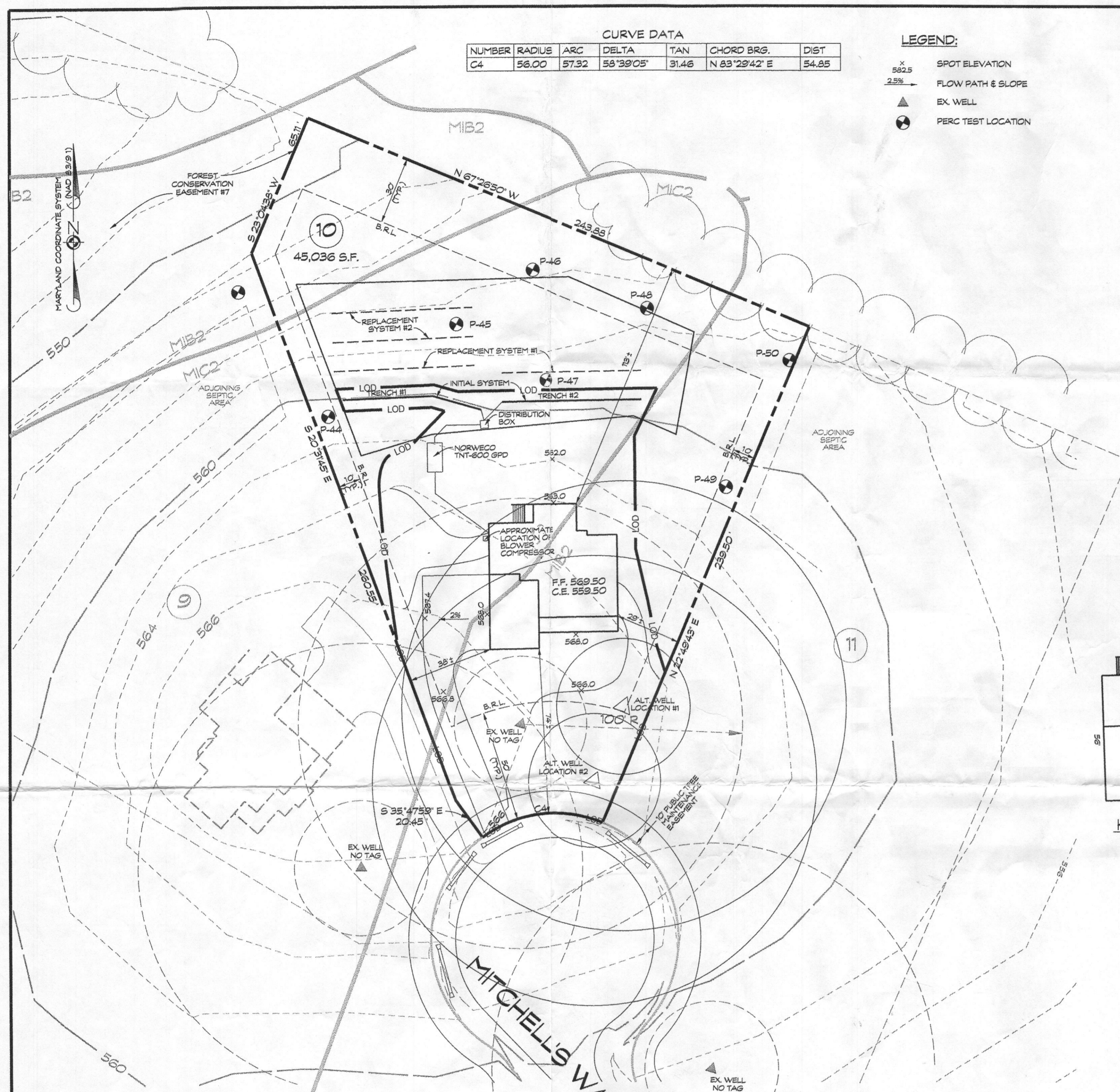
Linda D. Alexander
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CLSI
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 Land Planning & Environmental Consultants
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Date	Revisions	Drawn By:
3/25/15	REVISED ALT. WELL LOCATIONS AND BAT TANK	BM
		Designed By: LDA
		Reviewed By: LDA
		Date: 2/3/15
		Scale: 1" = 30'
		Job No.: 2013039
		Sheet: 1 OF 1

NUMBER	RADIUS	ARC	DELTA	TAN	CHORD BRG.	DIST
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 2.5% FLOW PATH & SLOPE
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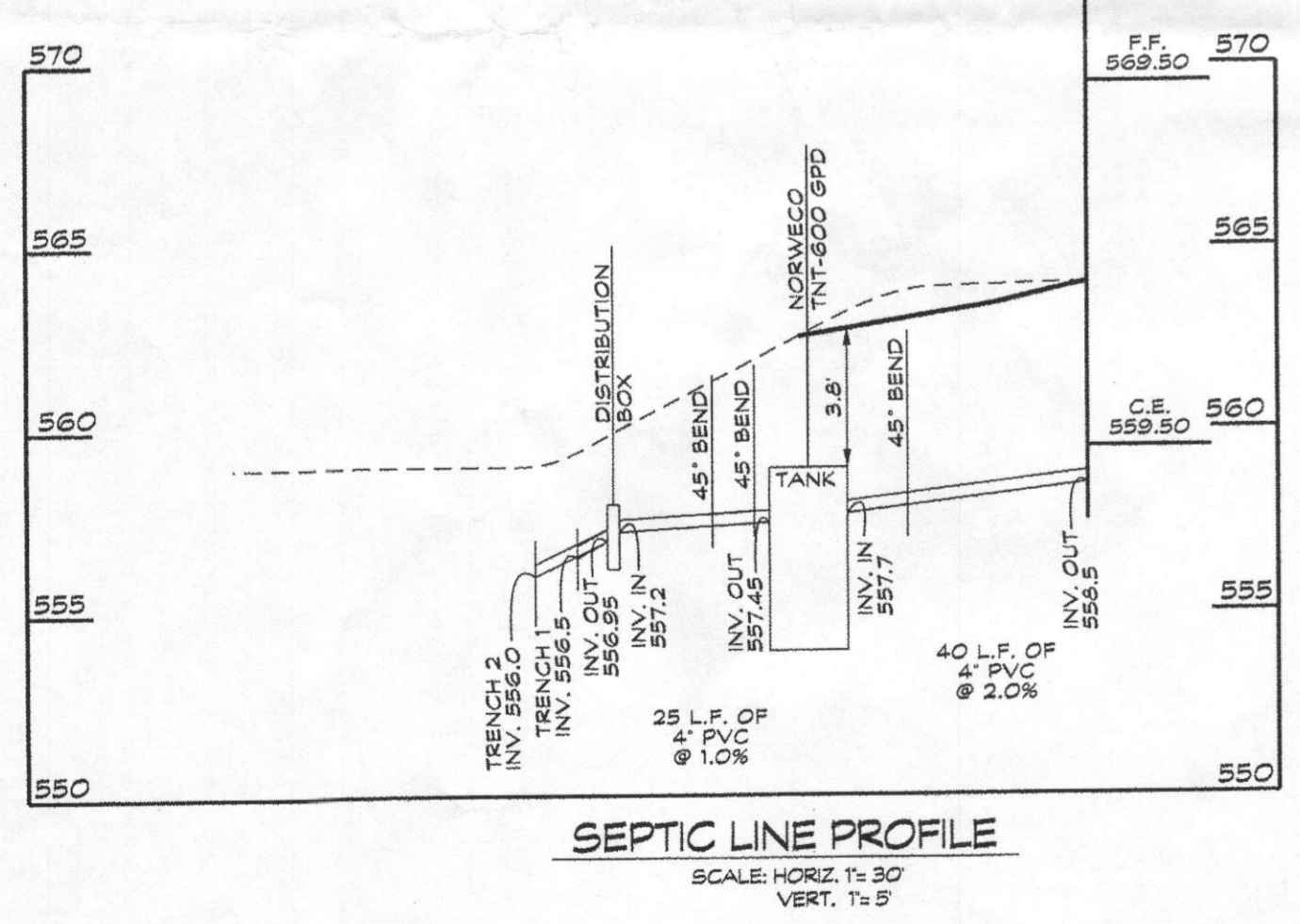
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PLAN
SCALE: 1" = 30'



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 Howard County Health Department
 Hank Oswald 3/31/15
 Signature Date

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 TAX ACCOUNT NO. 353486
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