



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

RECEIPT DATE: 4/3/14

ONSITE SEWAGE DISPOSAL SYSTEM

P 546295

INSTALLATION

APPROVAL DATE: 7/16/2014

**PERMIT
CONSTRUCTION**

A _____

PROPERTY ADDRESS: 2260 McKendree Road

SUBDIVISION: _____

LOT: 3

TAX ID: _____

CONTRACTOR: PH Dymond Corporation

EMAIL: phdymondcorp@netzero.net

CONTRACTOR ADDRESS: _____

PHONE: 443-250-9407

PROPERTY OWNER: Mckendree Associates

EMAIL: _____

OWNER ADDRESS: 2331 York Road Ste 301, Timonium, MD 21093

PHONE: 410-977-6149

BAT UNIT MODEL: Norweco TNTLP

BAT UNIT SIZE: 600 GPD

PUMP CHAMBER CAPACITY (GALLONS): _____

PUMP SIZE: _____

NUMBER OF BEDROOMS: 4

HOUSE SQ. FT. 5171

APPLICATION RATE: 1.2

DISTRIBUTION SYSTEM: GRAVITY FED

LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>103.33</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>6</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>9</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</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 layout inspection. Set distribution box per layout inspection. Install 103.33' of trench on contour. <u>2 x 52' Trenches</u>	

ISSUED BY: Dana Bernard

ISSUE DATE: 4-3-14

EXPIRATION DATE: 4-3-15

- 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.

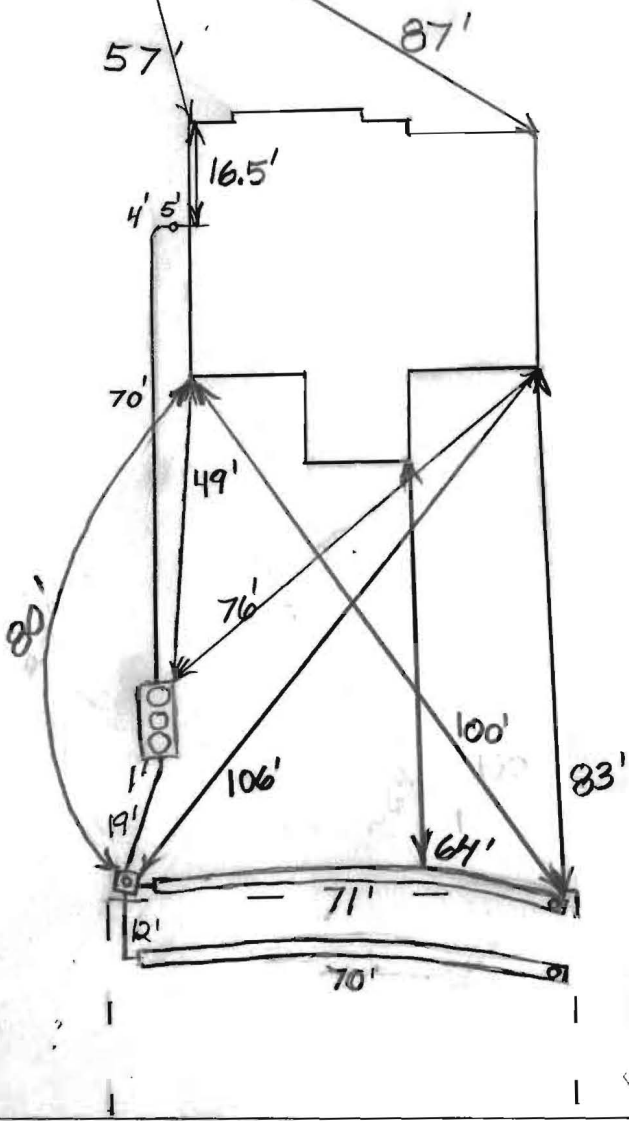
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

30

HO-95-2031

NOT TO SCALE



ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	3'	6'
NUMBER OF TRENCHES		2
TOTAL LENGTH		141'
ABSORPTION AREA		423 + Sidewall
DISTRIBUTION BOX LEVEL		Levelers
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA

SEPTIC TANK I LEVEL	Yes
MANUFACTURER	Norweco
CAPACITY	1300 GAL
SEAM LOC	Top
TANK LID DEPTH	1'-2.5'
BAFFLES	N/A
BAFFLE FILTER	None
MANHOLE LOC	Front, Middle + Rear
6" PORT LOC	None
WATERTIGHT TEST	No
SLOTTED	NA
DATE ON LID	Dry
PUMP/SEPTIC TANK LEVEL	N/A
MANUFACTURER	
CAPACITY	
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION

4/14/2014 Plumbing coming out of other side of house, O.K. to move dist. box to opposite corner of the septic easement. Install two 52' trenches on contour across the top of the easement. O.K. to sit tank above the other top corner easement stake. Keep tank 10' from property line. (BB)

INSTALLATION: 4/16/2014 Tank set. House connection made. (BB)

4/18/2014 A.M. One trench almost finished. (BB) 4/19/2014 P.M. System finished except for Norweco start-up certification from rep. (BB)

6/3/2014
7/16/2014 Received approval from Norweco representative. (BB)

FINAL INSPECTOR B. Baker DATE OF APPROVAL 7/16/2014

FLOOD INSURANCE NOTE: By graphics plotting only, this property is in ZONE of the Flood Insurance Rate Map, Community Panel No. 24027C0045D effective date of 11/06/2013. Exact designations can only be determined by an Elevation Certificate. Based on the above information, this property IS NOT in a Special Flood Hazard Area.

GENERAL NOTES

The plat is a benefit to the consumer only insofar as it is required by the lender or a title insurance company or its agent in connection with contemplated transfer, financing or refinancing.

The plat is not to be relied upon for the establishment or location of fences, garages, buildings, or other existing or future improvements.

The plat does not provide for the accurate identification of property lines, but such identification may not be required for the transfer of title or securing financing or refinancing.

(ACCURACY OF SETBACKS: 1'+/-)



Michael V. Moskuna

4

S 63°09'52" E 280.92'

10' B.R.L.

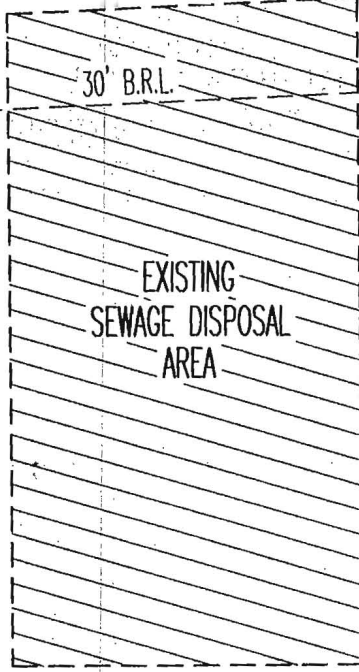
EX. TOP OF CONCRETE FOUNDATION WALLS: 552.5'±

3

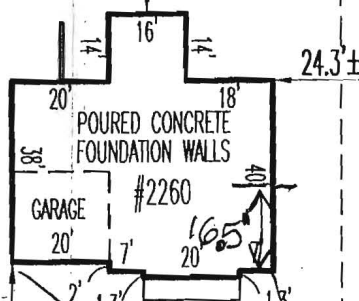


FOREST CONSERVATION EASEMENT #5
MITIGATION BANK
N 23°38'05" W 89.28'

N 26°07'17" E 91.50'



EXISTING SEWAGE DISPOSAL AREA



POURED CONCRETE FOUNDATION WALLS #2260

GARAGE

EX. WELL TAG #HO-95-2031

N 29°44'35" E 138.68'

McKENDREE ROAD
EXISTING PAVING

PARCEL 'A'-McKENDREE SPRINGS
PLAT No. 22328-30

N 61°35'37" W 358.09'

GRAPHICAL SCALE 1"=40'



FOUNDATION LOCATION DRAWING

#2260 McKENDREE ROAD

LOT-3

"McKENDREE SPRINGS" WAR PLAT #22329

TAX MAP: 14 GRID: 6 PARCEL: 128
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

Scale: 1"=40'	Date: 03/04/14	JOB # 10255
Drawn: MVM	Checked: BLM	SURVEY'D: DTW,JK



SITE RITE
SURVEYING INC.
200 E. JOPPA ROAD
SHELL BUILDING, SUITE 101
TOWSON, MD. 21286
410-828-9060

2260 + 2270 Mckendree Road

Clerk of the Circuit Court for
Howard County
Land Records/Licensing

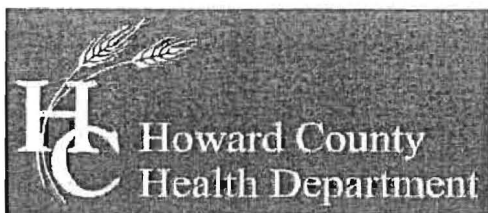
The Thomas Dorsey Building
9250 Bendix Road
Columbia, MD 21045
410-313-5850

=====		
LR - Agreement Recording Fee		
	1x 20.00	20.00
Grantor/Grantee Name: Mckendree Assoc		
Reference/Control #: 175		
LR - Agreement Surcharge		
	1x 40.00	40.00
LR - Agreement Recording Fee		
	1x 20.00	20.00
Grantor/Grantee Name: Mckendree Assoc		
Reference/Control #: 176		
LR - Agreement Surcharge		
	1x 40.00	40.00
=====		

SubTotal:	120.00
Total:	120.00
=====	

REV-Check-BGA	120.00
Number : 1949	

07/22/2014 14:35 CC13-CH
 #3071708 /495/109
 Thank you for visiting us today~



Bureau of Environmental Health
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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 ^(22ND) 17th day of July 2014, among McKendree Associates, 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 2260 McKendree Road, in the 4th 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 7803 Folio 591.

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.

By: Robert Country 7/22/14

Owner

Date

Owner

Date

Bert Nyson 7/22/14

Howard County Health Department

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 2260 McKendree RD., West Friendship, MD 21794 on April 16, 2014 was installed according to the manufacture's specifications.

Installer: Paul Dymond JR.



MATTHEW GECKLE

Vice-President

Back River Pre-Cast, LLC

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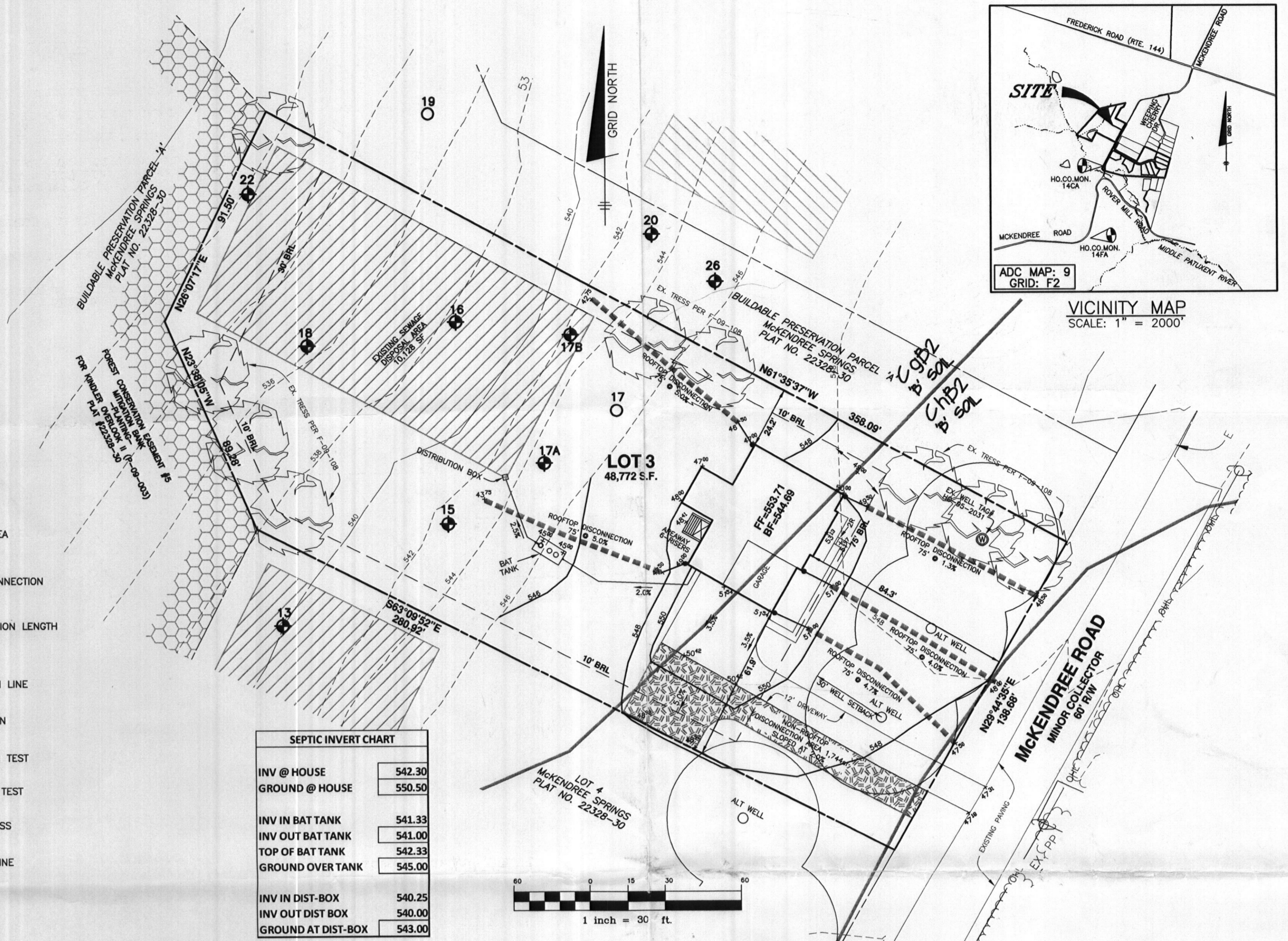
Vice-President

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 3 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 (1) 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 OF HOWARD COUNTY.
8. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

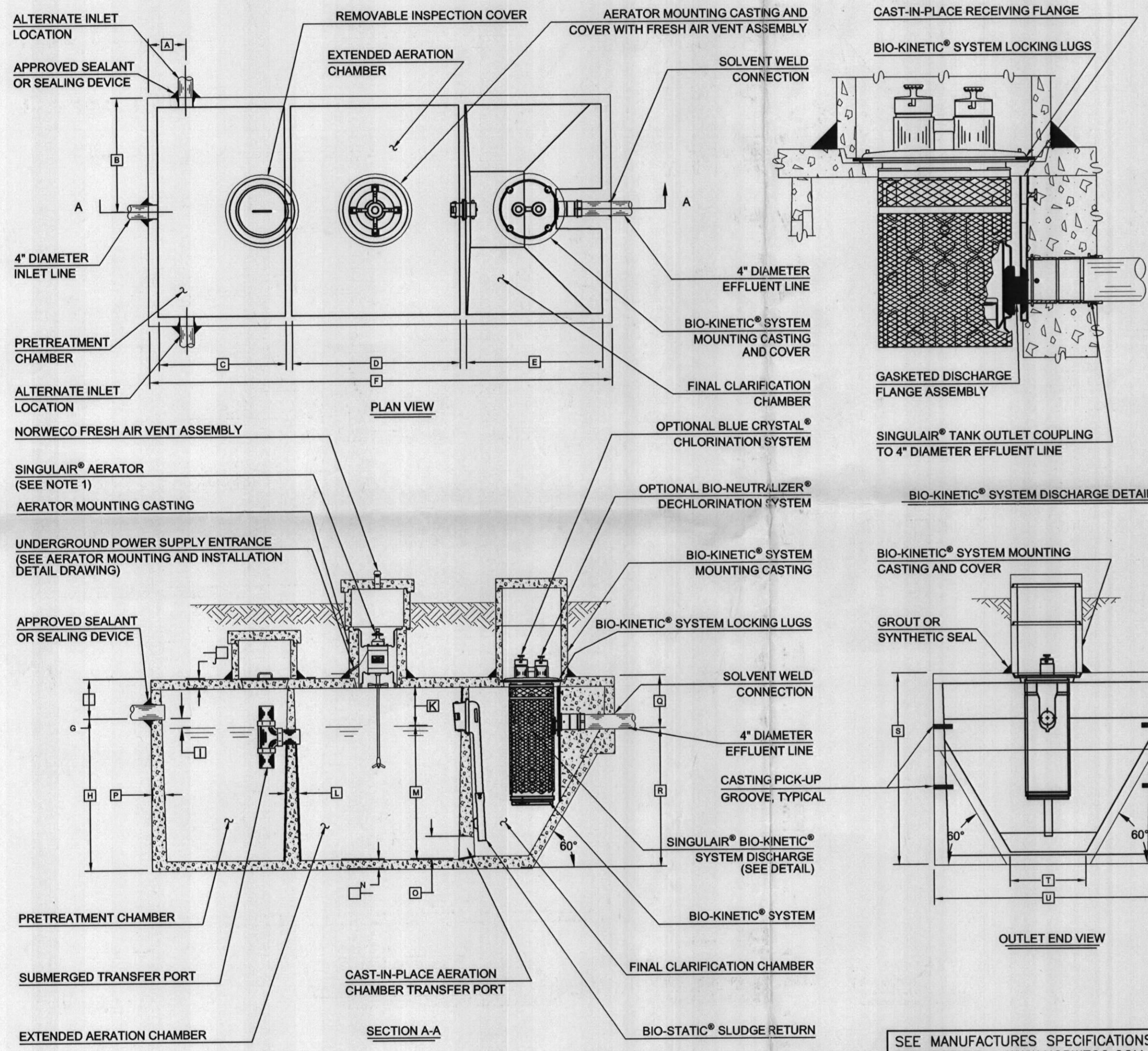
LEGEND

- EXISTING CONTOURS
- BOUNDARY
- ▨ SEWAGE DISPOSAL AREA
- ▨ NON-ROOFTOP DISCONNECTION AREA (FILTER STRIP)
- ROOFTOP DISCONNECTION LENGTH (FILTER STRIP)
- ROOF DOWNSPOUTS
- BUILDING RESTRICTION LINE
- FOREST CONSERVATION EASEMENT
- ⬢ PASSED PERCOLATION TEST HOLE
- FAILED PERCOLATION TEST HOLE
- SOILS TYPE AND CLASS
- SOILS DELINEATION LINE



SEPTIC INVERT CHART

INV @ HOUSE	542.30
GROUND @ HOUSE	550.50
INV IN BAT TANK	541.33
INV OUT BAT TANK	541.00
TOP OF BAT TANK	542.33
GROUND OVER TANK	545.00
INV IN DIST-BOX	540.25
INV OUT DIST BOX	540.00
GROUND AT DIST-BOX	543.00



SEE MANUFACTURER'S SPECIFICATIONS FOR DETAILS. WWW.NORWECO.COM

CRITICAL DIMENSIONS

A	1'-0"	N	0'-3"
B	3'-0"	O	0'-6"
C	3'-4"	P	0'-3"
D	4'-5"	Q	1'-4"
E	3'-7"	R	3'-8"
F	12'-2"	S	5'-0"
G	1'-0"	T	2'-0"
H	4'-0"	U	6'-0"
I	0'-3"	V	
J	0'-3"	W	
K	1'-0"	X	
L	0'-2"	Y	
M	3'-6"	Z	

U.S. AND FOREIGN PATENTS PENDING

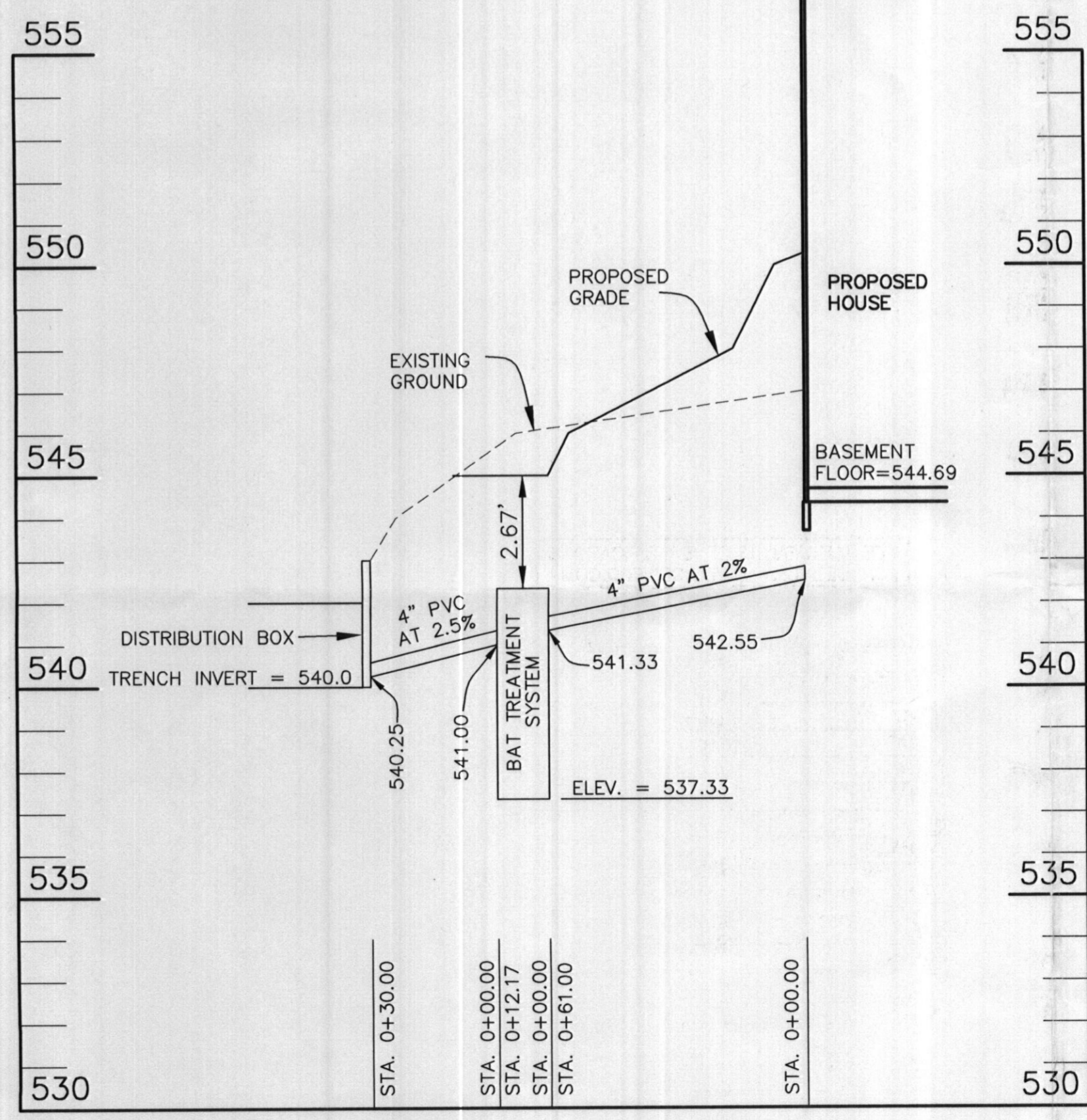
norweco 3-26-07 BDS

LOW-PROFILE SINGLAIR® BIO-KINETIC WASTEWATER TREATMENT SYSTEM MODEL TMTLP-600 GPD

PC-5-7091

- GENERAL NOTES:**
1. SINGLAIR® AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 60 MINUTES ON / 60 MINUTES OFF.
 2. FALL THROUGH SINGLAIR® 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 SINGLAIR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

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



SEPTIC PROFILE
SCALE: VERTICAL 1"=5', HORIZONTAL 1"=50'

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DAVID THOMPSON
PLAN PREPARER

McKENDREE SPRINGS
LOT 3
2260 McKENDREE ROAD
WEST FRIENDSHIP, MARYLAND 21794

OWNER: McKendree Associates LLC
2331 YORK ROAD, SUITE 301
TIMONIUM, MARYLAND 21093

TAX MAP: 14 GRID: 6 PARCEL: 128
ZONED: RC-DEO
ELECTION DISTRICT NO. 4

SITE PLAN FOR BAT INSTALLATION

DATE: NOVEMBER 26, 2013 BEI PROJECT NO: 2598
SCALE: AS SHOWN SHEET 1 OF 1