



HOWARD COUNTY HEALTH DEPARTMENT

55318

P5

DATE 11/17/14

Received From

Hatfield Equip.

PHONE #

301 854-6172

For

Septic Permit - 6234

Heather Glen way

CASH

CHECK

NO. 3299

Three hundred ninety six

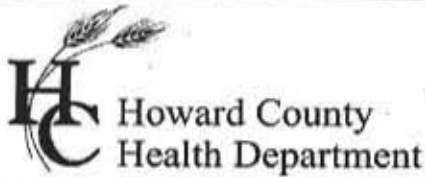
Dollars

\$

396.00

Received By

D. King



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: 11/17/2014 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 555318

INSTALLATION
 APPROVAL DATE: 2/20/2015

**PERMIT
 CONSTRUCTION**

A _____

PROPERTY ADDRESS: 6234 Heather Glen Way

SUBDIVISION: Preserve at Clarksville

LOT: 5 TAX ID: 5448174

CONTRACTOR: Hatfield's Equipment

EMAIL: ken@hatfieldsequipment.com

CONTRACTOR ADDRESS: P.O. Box 519, Annapolis Junction, MD 20701

PHONE: _____

PROPERTY OWNER: Williamsburg Group

EMAIL: _____

OWNER ADDRESS: _____

PHONE: _____

BAT UNIT MODEL: Norweco TNTLP

BAT UNIT SIZE: 750GPD

PUMP CHAMBER CAPACITY (GALLONS): _____

PUMP SIZE: _____

NUMBER OF BEDROOMS: 4

HOUSE SQ. FT. _____

APPLICATION RATE: 1.2

DISTRIBUTION SYSTEM: GRAVITY FED

LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>104</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5</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.	

ISSUED BY: Jeff Williams

ISSUE DATE: _____

EXPIRATION DATE: _____

- 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

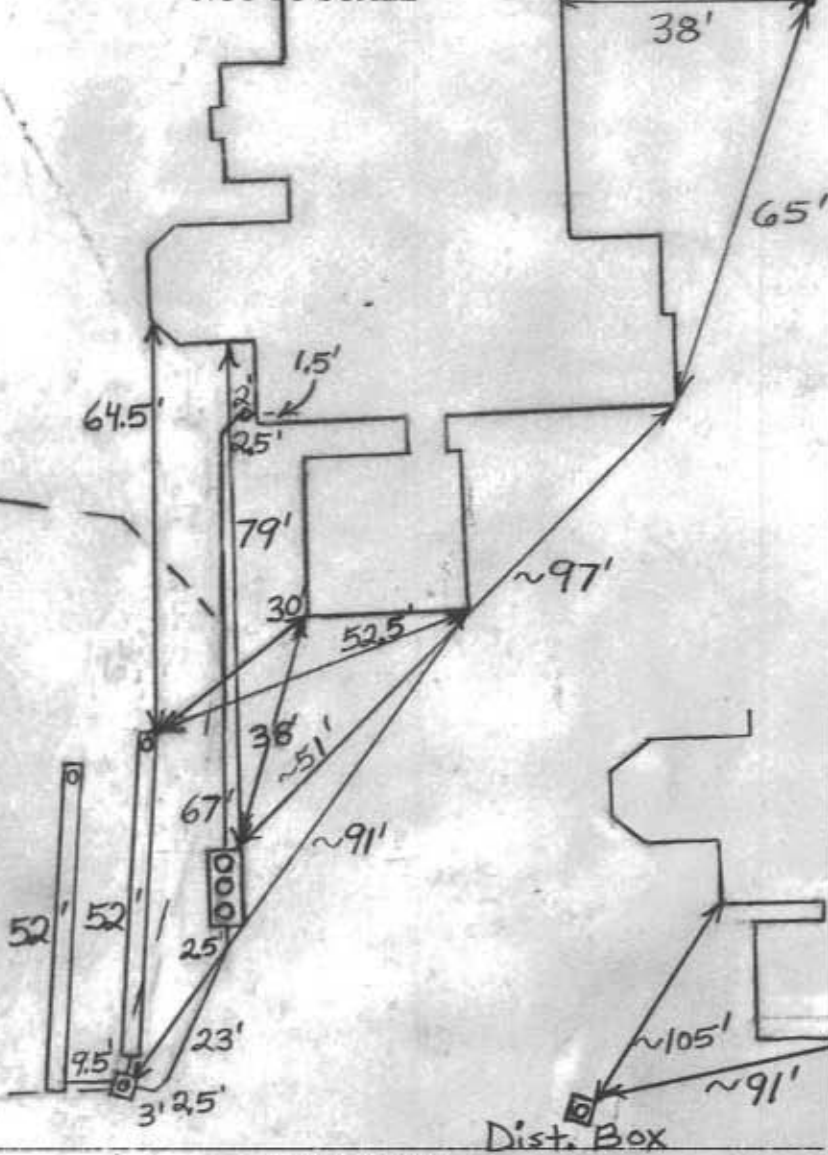
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

HO-95-0227 Below Fill

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH 3' INLET 4.5'-5' BOTTOM 7.5'-8'
 NUMBER OF TRENCHES 2
 TOTAL LENGTH 104'
 ABSORPTION AREA 312 + Sidewall
 DISTRIBUTION BOX LEVEL Levelers?
 DISTRIBUTION BOX BAFFLE Yes?
 DISTRIBUTION BOX PORT Yes

SEPTIC TANK DATA

SEPTIC TANK I LEVEL Yes
 MANUFACTURER BackFiver Norweco
 CAPACITY 1,300 GAL
 SEAM LOC Top
 TANK LID DEPTH 1-2'
 BAFFLES No
 BAFFLE FILTER N/A
 MANHOLE LOC Front, Middle or Rear
 6" PORT LOC None
 WATERTIGHT TEST No
 SLOTTED N/A
 DATE ON LID 10/21/2014

PUMP/SEPTIC TANK LEVEL N/A

MANUFACTURER _____
 CAPACITY _____ GAL
 SEAM LOC _____
 TANK LID DEPTH _____
 BAFFLES _____
 BAFFLE FILTER _____
 MANHOLE LOC _____
 6" PORT LOC _____
 WATERTIGHT TEST _____
 SLOTTED _____
 DATE ON LID _____

ROAD NAME

Dist. Box

PRE CONSTRUCTION:

11/18/2014 Could not find original grade of the septic easement anywhere near the house. Finally dug a perc test hole on the top of both sides of the easement to locate the depth where sandy material started. Trenches to be installed according to level depth of sandy material. Install two 65' trenches straight across the easement.

INSTALLATION:

The trench ends near the house should be about 10' further downhill. Remove enough fill so that the trench inlets won't be deeper than 5'. Use a laser. (BB)

12/1/2014 System completed except for end of bottom trench, levelers and dist box baffle. (BB) 12/2/2014 Unable to inspect. Told contractor to install dist. baffle (bricks) and check levelers. O.K. to cover. (BB) 12/3/2014 Got final

FINAL INSPECTOR

B Baker

DATE OF APPROVAL

2/20/2015

as-built measurements. Need BAT approval from Norweco inspector. (BB) 2/20/2015 Received BAT approval from Norweco rep. (BB)

Back River Pre-Cast, LLC

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

Letter of Certification

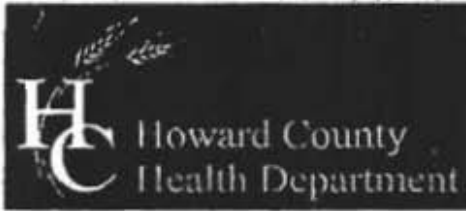
This is to certify that the Norweco Singulair TNT 600 GPD Septic Tank installed at 6234 Heather Glen Way, Clarksville, MD 21029 was installed on December 1, 2014 was installed according to the manufacture's specifications.

Installer: Jeff Reiter



MATTHEW GECKLE

Vice-President



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
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 15 day of March, 2014, among Hely & Hiral Patel, 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 6234 Heather Glen Way, in the 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 15236 Folio 00041

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

Handwritten signature

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20

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.

Hiral Patel 3-15-14
Owner / Hiral Patel Date

Hely Patel 3-15-14
Owner / Hely Patel Date

Bert Nixon 3/19/2014
Howard County Health Department
BERT NIXON

LR - Agreement
Recording Fee 20.00
Grantor/Grantee Name:
Patel
Reference/Control #: 139
LR - Agreement Surcharge 40.00
Subtotal: 60.00
Total: 120.00
#2573548-1
03/19/2014 12:22
CC13-DS
#2573548 CC0503 -
Howard Co
Columbia/CC05.03.04 -
Register 04 496

HOWARD COUNTY CIRCUIT COURT (Land Records) WAR 15505, p. 0078, MSA_CE53_15496. Date available 03/21/2014. Printed 02/23/2015.

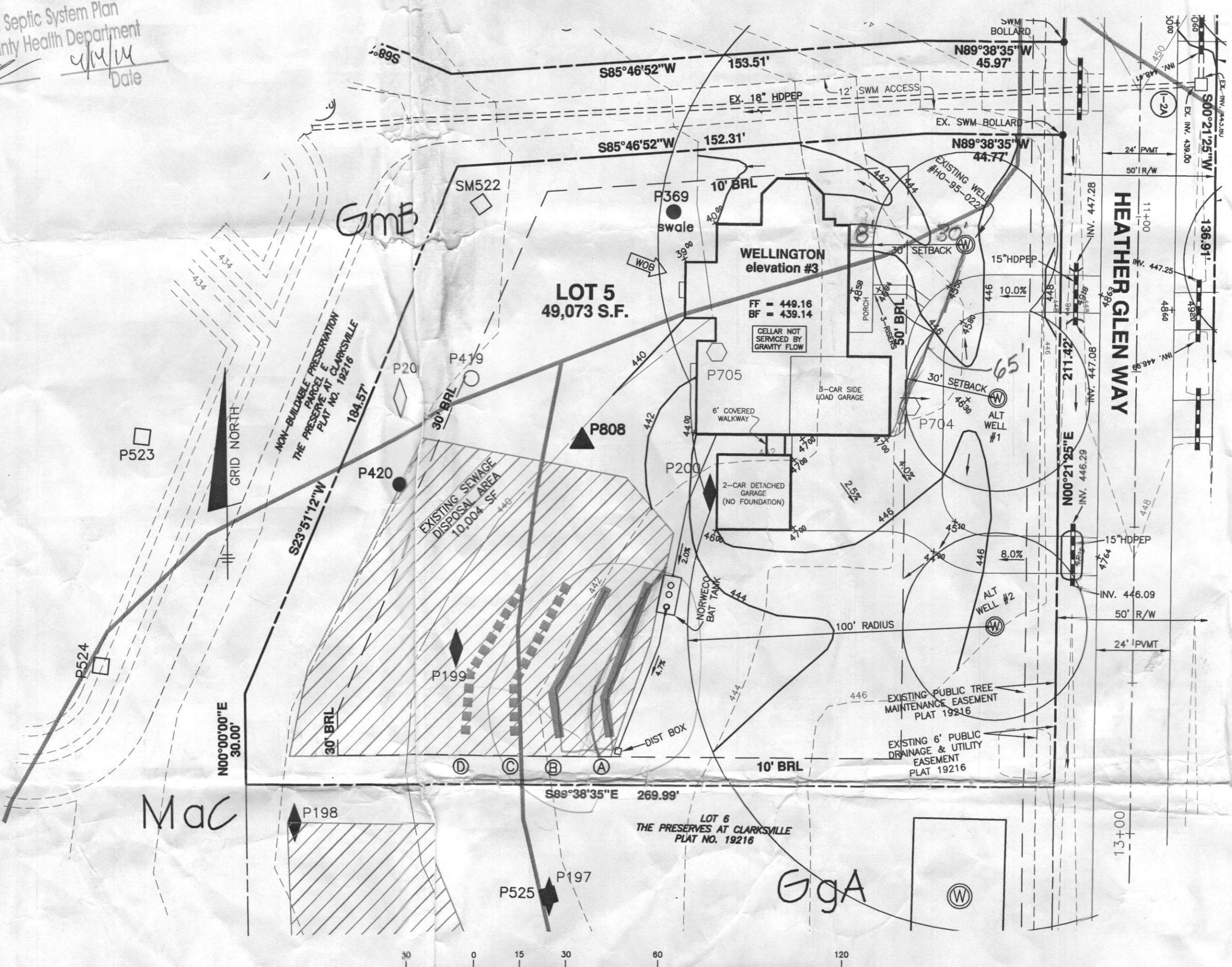
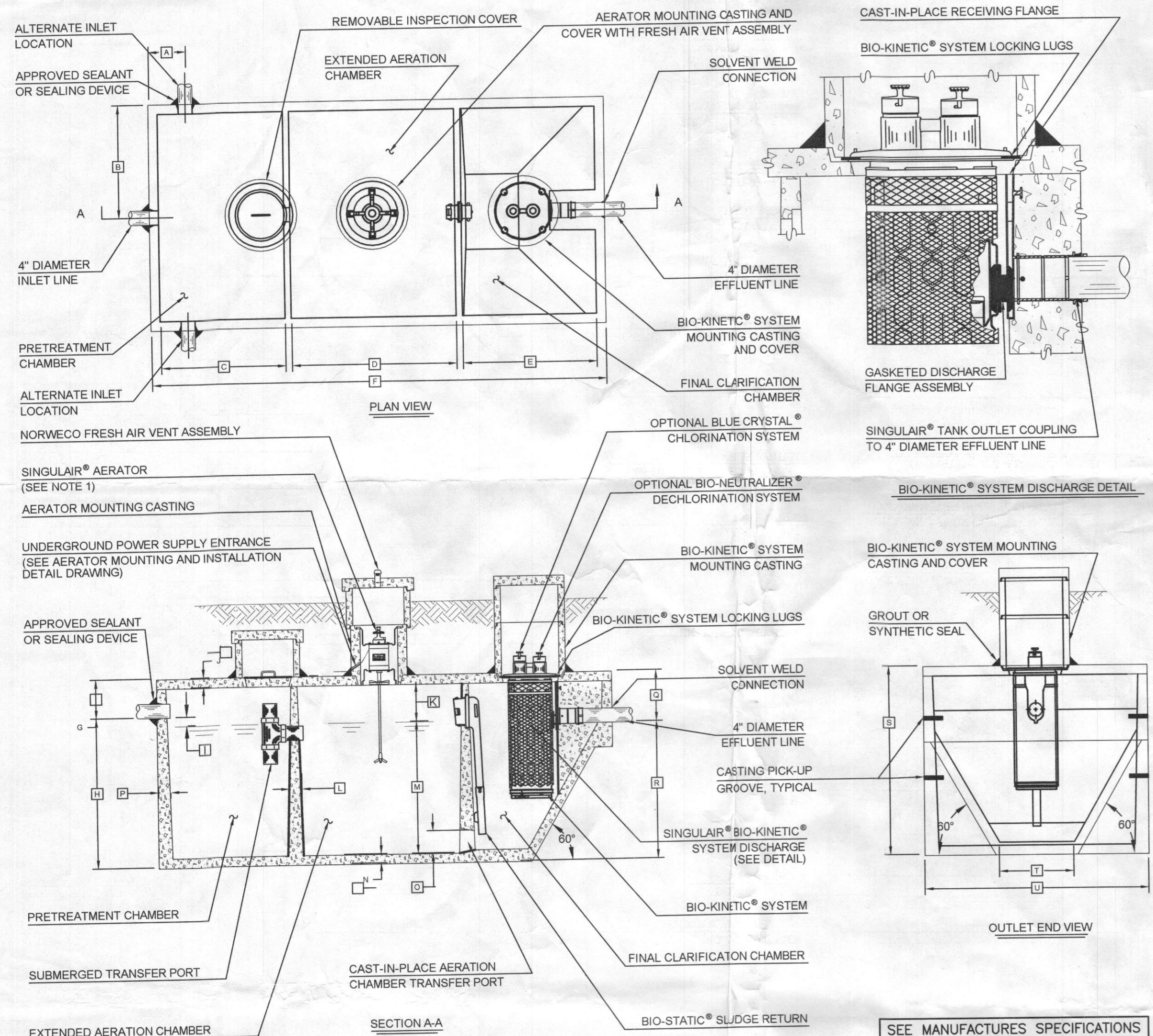
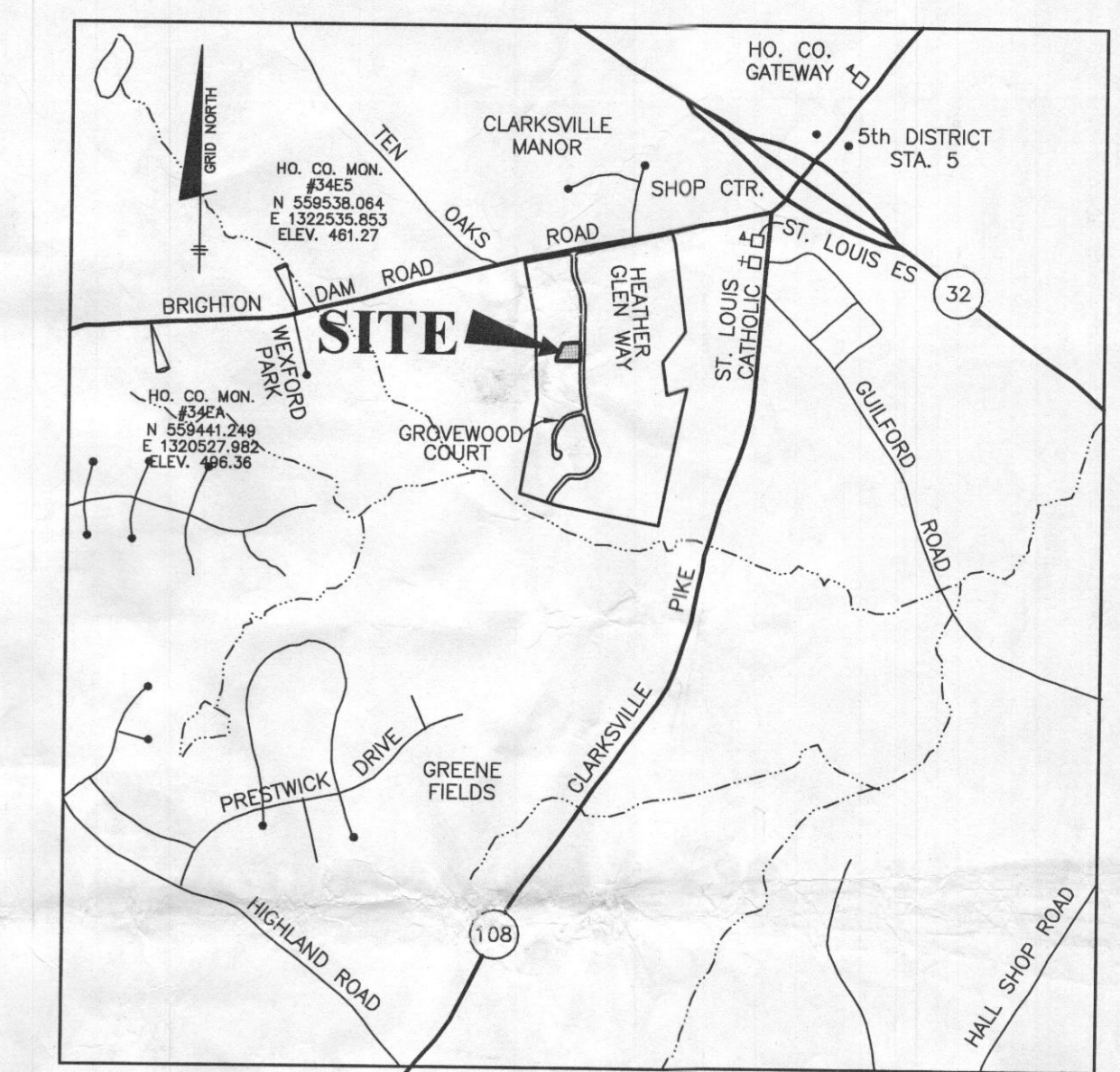
NOTES:

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.

Approved Septic System Plan
Howard County Health Department
Signature: [Signature] Date: 4/14/14

9. 10,000 sq ft easement Note

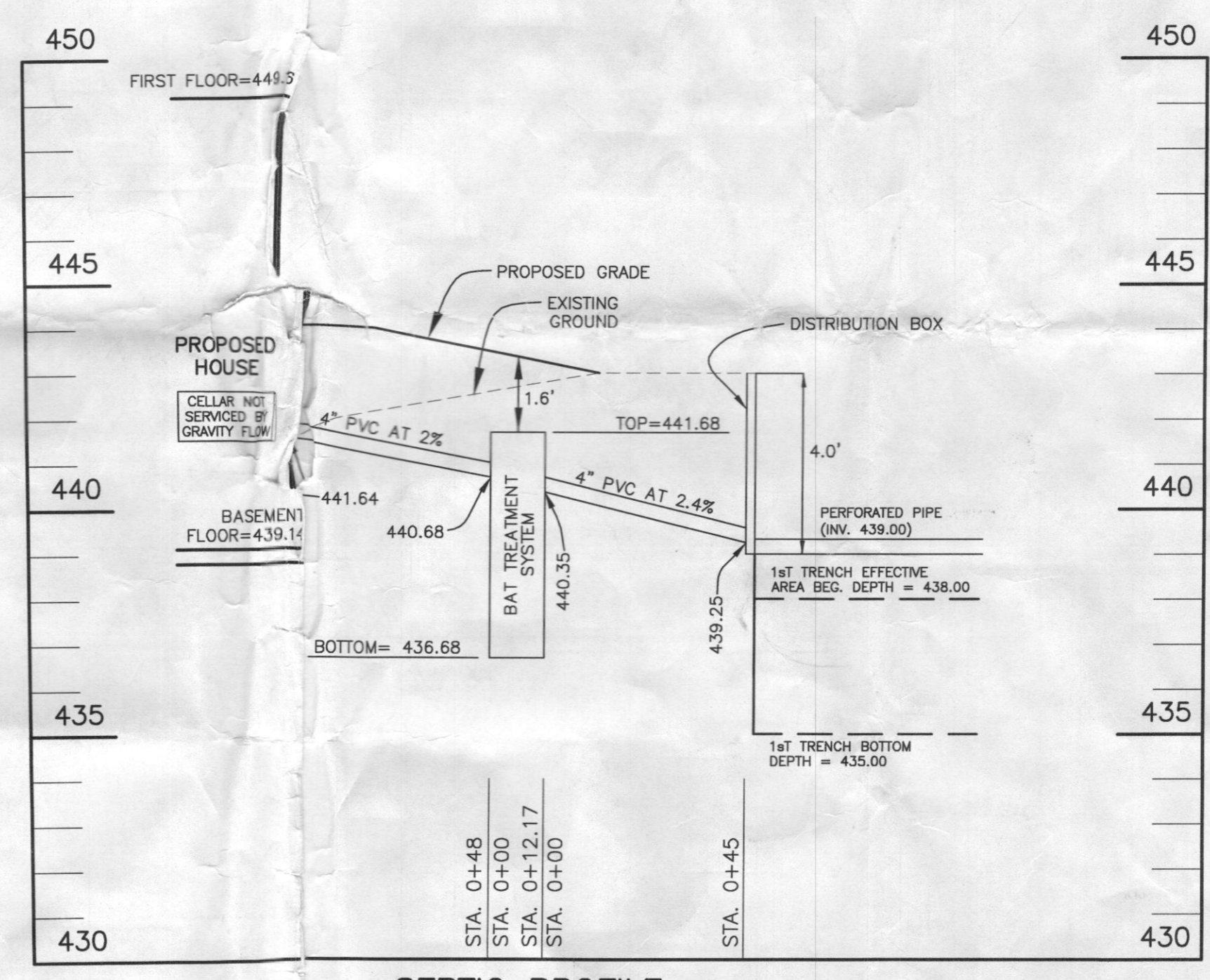
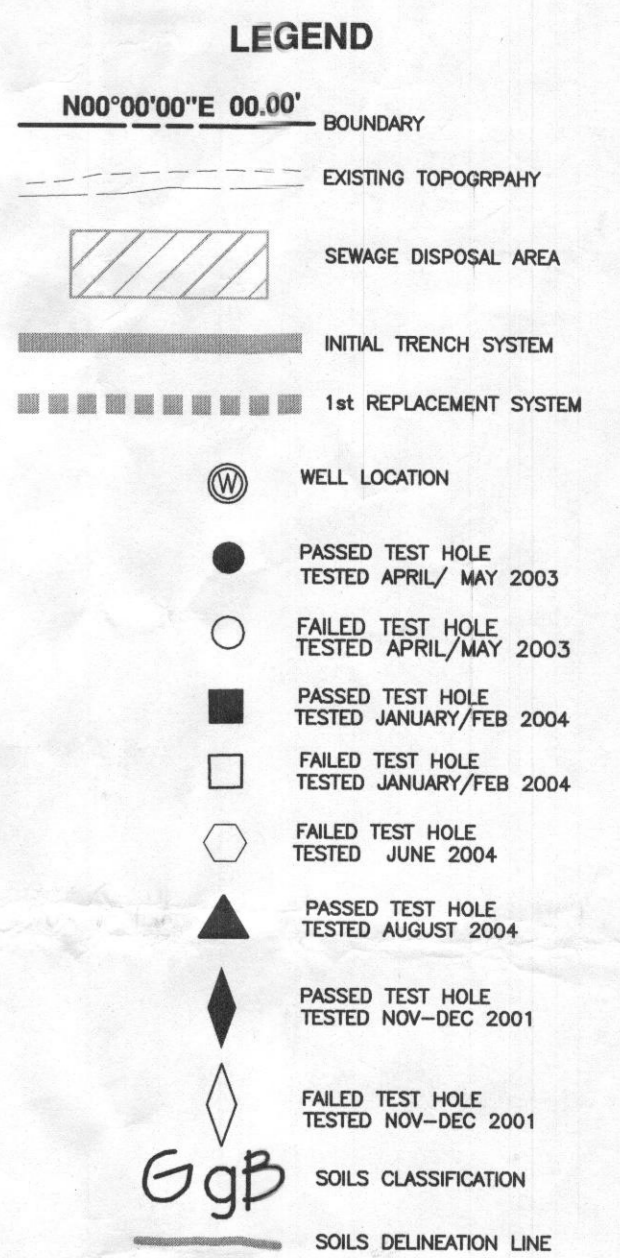
SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NRCS SOILS CHART	NAME
GgA		B		GLENELG LOAM, 0 TO 3 PERCENT SLOPES	
GmB*	YES	C		GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	
MaC		B		MANOR LOAM, 8 TO 15 PERCENT SLOPES	



INITIAL SYSTEM	
Number of Bedrooms	5
Application Rate	1.2 gpd/sf
Effective Area Beginning Depth	5 ft
Bottom Max Depth	8 ft
Design Flow	750 gpd
Drainage Field square footage	625 sf
Sidewall reduction credit	0.5
Trench width	3
Effective Area Depth	3
Linear Length of trench Required	104 lf

1st REPLACEMENT SYSTEM	
Number of Bedrooms	5
Application Rate	1.2 gpd/sf
Effective Area Beginning Depth	5 ft
Bottom Max Depth	8 ft
Design Flow	750 gpd
Drainage Field square footage	625 sf
Sidewall reduction credit	0.5
Trench width	3
Effective Area Depth	3
Linear Length of trench Required	104 lf

TRENCH INFORMATION	
Ⓐ TRENCH LENGTH	52 LF
GROUND ELEVATION	443.00
INVERT ELEVATION	438.00
MAX BOTTOM ELEV.	435.00
Ⓑ TRENCH LENGTH	52 LF
GROUND ELEVATION	442.20
INVERT ELEVATION	438.20
MAX BOTTOM ELEV.	434.20
Ⓒ TRENCH LENGTH	52 LF
GROUND ELEVATION	441.50
INVERT ELEVATION	437.50
MAX BOTTOM ELEV.	433.50
Ⓓ TRENCH LENGTH	52 LF
GROUND ELEVATION	441.00
INVERT ELEVATION	437.00
MAX BOTTOM ELEV.	433.00



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 4/4/14

- GENERAL NOTES:**
1. SINGULAR® AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 60 MINUTES ON / 180 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 AC 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.

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	

SEE MANUFACTURER SPECIFICATIONS FOR DETAILS. WWW.NORWECO.COM

BENCHMARK ENGINEERING, INC.
ENGINEERS & LAND SURVEYORS & PLANNERS
6480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLIOTT CITY, MARYLAND 21043
(7) 410-465-8102 (F) 410-465-6644
WWW.BEI-ONLINEENGINEERING.COM

THE PRESERVE AT CLARKSVILLE LOT 5 6234 HEATHER GLEN WAY CLARKSVILLE, MARYLAND 21029 TAX MAP: 34 GRID: 11 PARCEL: 77 ZONED: RC-DEO ELECTION DISTRICT NO. 5	
BUILDER: WILLIAMSBURG HOMES, INC. 5485 HARPERS FARM ROAD SUITE 200 COLUMBIA, MARYLAND 21044 410-997-8800	SITE PLAN FOR BAT INSTALLATION DATE: APRIL 4, 2014 BEI PROJECT NO: 1407-W SCALE: AS SHOWN SHEET 1 OF 1