

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: 2/6/15 **ONSITE SEWAGE DISPOSAL SYSTEM** P 555739

INSTALLATION
 APPROVAL DATE: 6/15/15 SEC **PERMIT** A _____
CONSTRUCTION

PROPERTY ADDRESS: 12615 Grovewood Court

SUBDIVISION: The Preserve at Clarksville LOT: 14 TAX ID: _____

CONTRACTOR: Hatfield's Equipment EMAIL: ken@hatfieldsequipment.com

CONTRACTOR ADDRESS: P.O. Box 519 Annapolis Junction, MD 20701 PHONE: 301-490-4289

PROPERTY OWNER: Williamsburg Homes EMAIL: _____

OWNER ADDRESS: 5485 Harpers Farm Road Suite 200, Columbia, MD 21044 PHONE: 410-997-8800

BAT UNIT MODEL: Norweco PUMP SIZE: _____ PUMP TANK CAPACITY: 750GPD

DISTRIBUTION SYSTEM: GRAVITY LOW PRESSURE DOSED NUMBER OF BEDROOMS: 5

TRENCHES:	LINEAR FEET REQUIRED: <u>260</u>	INLET DEPTH: <u>See BAT Plan 4'</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>See BAT Plan</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>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. <i>4x65' Trenches</i>	

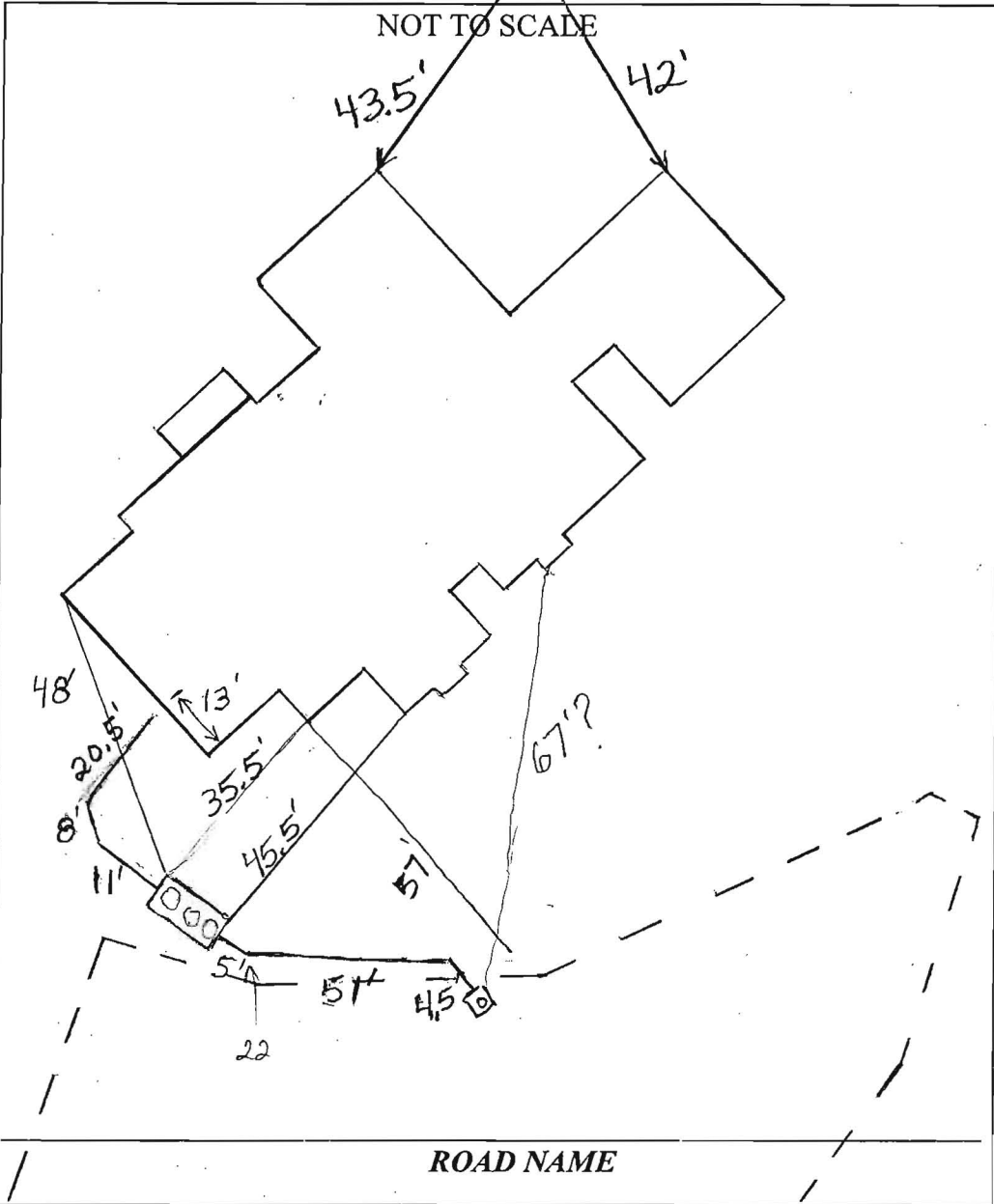
ISSUED BY: Hank Oswald ISSUE DATE: 2/6/15 EXPIRATION DATE: 2/6/16

- 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 DOWNGRAIDENT 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.**

HO-95-0257

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
_____	_____	_____
NUMBER OF TRENCHES _____		
TOTAL LENGTH _____		
ABSORPTION AREA _____		
DISTRIBUTION BOX LEVEL _____		
DISTRIBUTION BOX BAFFLE _____		
DISTRIBUTION BOX PORT _____		

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL Yes

MANUFACTURER Norweco, River

CAPACITY 1300 GAL

SEAM LOC Top

TANK LID DEPTH 0.5-1.5'

BAFFLES No

BAFFLE FILTER N/A

MANHOLE LOC Front, Middle, Rear

6" PORT LOC None

WATERTIGHT TEST No

SLOTTED N/A

DATE ON LID _____

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 _____

PRE-CONSTRUCTION:

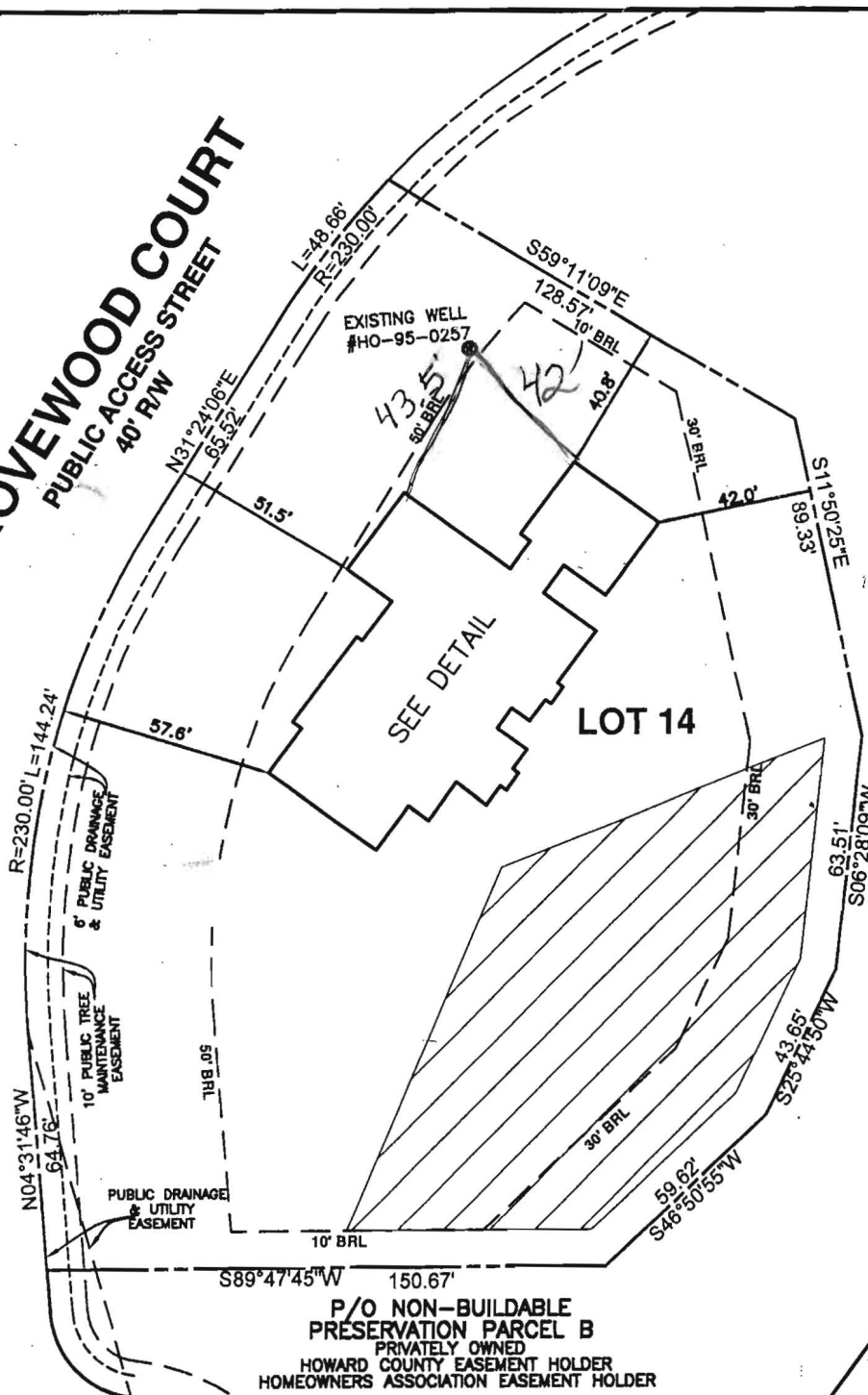
2/19/2015 Set the dist. box in the top middle of the septic easement and install four 65' trenches on contour as high as possible. Install the tank as per plan location. (EB)

INSTALLATION: 2/20/2015 Need house connection.

FINAL INSPECTOR _____ DATE OF APPROVAL _____

GROVEWOOD COURT

PUBLIC ACCESS STREET
40' R/W



HOWARD COUNTY HOMEOWNERS ASSOCIATION EASEMENT HOLDER

PRIVATELY OWNED

2/10/15
wall check
okay - H.O.

P/O NON-BUILDABLE PRESERVATION PARCEL B
PRIVATELY OWNED
HOWARD COUNTY EASEMENT HOLDER
HOMEOWNERS ASSOCIATION EASEMENT HOLDER

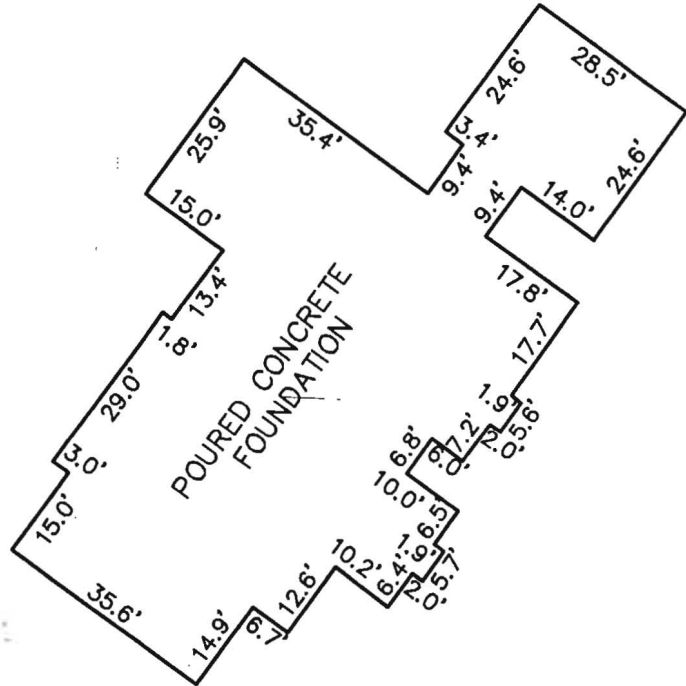
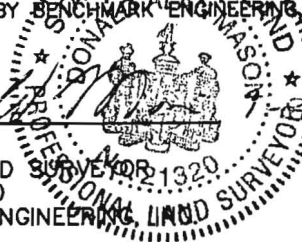
TOP OF FOUNDATION WALL ELEVATION = 436.6'
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THESE DOCUMENTS, WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21320, EXPIRATION DATE 1-7-2017 AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THAT THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREON ARE CORRECT; THAT THEY ARE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 01/08/2015.

Donald A. Mason

DONALD A. MASON
PROFESSIONAL LAND SURVEYOR
MD REG. No. 21320
FOR BENCHMARK ENGINEERING, INC.
MD REG. No. 351
FEMA FIRM No. 24027C0130D
ZONE: X
DATED: 11/06/2013



FOUNDATION DETAIL
SCALE: 1" = 30'

WALL CHECK

THE PRESERVE AT CLARKVILLE
LOTS 1-32
PLAT No. 19217
LOT No. 14

12615 GROVEWOOD COURT

FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1" = 50' DATE: 01/08/2015



8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315
ELLCOTT CITY, MARYLAND 21043
phone: 410-465-6105 ▲ fax: 410-465-6644
www.bei-civilengineering.com

FIELD OBS. BY AIS&ML
COMP. BY EWF
DRAWN BY EWF

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 12615 Grovewood Ct., Clarksville, MD 21029 February 20, 2015 was installed according to the manufacture's specifications.

Installer: Jeff Reiter

Property Owner: Williamsburg Group, LLC



MATTHEW GECKLE

Vice-President



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

**AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN
ON-SITE TREATMENT SYSTEM**

This agreement is entered into by and between the Howard County Health Department ("the Health Department") and Kunte Ayankoya & Adefunke Adeyemi ("the Owner").

WHEREAS, the Owner owns a tract of land at street address 12615 Greenwood Court, Clarksville, MD 21029 and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 34, Block # , Parcel # 0077, Deed Reference # 15236/00011 and Tax Account # 05/448263 ("the Property").

WHEREAS, the Property lacks an available public drinking water source and is required to have and individual well as the source of drinking water for the residence of the property.

WHEREAS, the Owner has installed a residential drinking well under well permit HO-95-0257 that has been tested by the Health Department (or a private laboratory certified to perform testing) for radionuclide particles. The results of the tests have shown that the gross alpha particle content and/or the gross beta particle content and/or the combined radium 226/228 levels exceeds the standards of 15 picocuries per liter (pCi /L), 4 millirems per year (mrem/yr) and/or 5pCi/L respectively.

WHEREAS, The Maryland Department of the Environment (MDE) has promulgated rules and regulations under which a Certificate of Potability may be issued and has delegated the authority to issue such Certificate to the Health Department.

WHEREAS, MDE regulations permit the Health Department to issue as a special condition, a permanent deviation to the Certificate of Potability for individual wells where treatment has been installed to meet the maximum contaminate levels (MCL's) for radionuclides.

WHEREAS, MDE has determined that radium can be effectively removed from the drinking water by the use of treatment devices (e.g., ion exchange or reverse osmosis).

WHEREAS, the Owner is requesting that the Health Department issue a Certificate of Potability contingent upon installation and maintenance of a water treatment device to reduce radionuclides.

WHEREAS, neither the Owner nor the Health Department has knowledge of an alternative safe source of water for the Property.

NOW THEREFORE, the parties have agreed to the following terms and conditions:

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KD

1. The Owner will record this Agreement among the Land Records of Howard County, Maryland and provide confirmation to the Health Dept.
2. The Owner agrees to install and maintain a water treatment device, which effectively reduces the gross alpha, gross beta and radium levels to below their respective MCL. The Health Department shall verify that the treatment device is operating effectively and the Owner agrees to allow access to the Health Department to collect a follow-up sample(s).
3. The Health Department shall issue a Certificate of Potability for the well once follow-up sampling shows acceptable gross alpha, gross beta (short and long term) and radium 226 / 228 levels.
4. The Owner agrees that there shall be no liability on part of the Health Department for any immediate or long term impacts to health or property, under any circumstance or including, but not limited to, treatment device failure, improper maintenance or installation, or defect. The Health Department does not warranty or guarantee that the device will adequately or properly function and the Owner agrees to implement and pay for any necessary changes or corrections.
5. The Owner acknowledges and agrees that neither the Health Department nor any of its agents or employees, either officially or individually, underwrites the operation of any system or treatment device.
6. This Agreement shall not be construed to limit any authority of the Health Department to protect the public health, safety or enjoyment of property or to issue any other orders to take any other action, which is now or may hereafter be within its authority.
7. This agreement contains the entire agreement and understanding between the Health Department 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 their authorized representatives.
8. The Agreement shall run with the land and binds the Owner, his heirs, successors, and assigns. The owner agrees to provide a copy of this agreement to any purchaser or lessee of the property.
9. The laws of the State of Maryland govern the provisions of all transactions.

The parties have signed and sealed this Agreement on the dates set forth below.

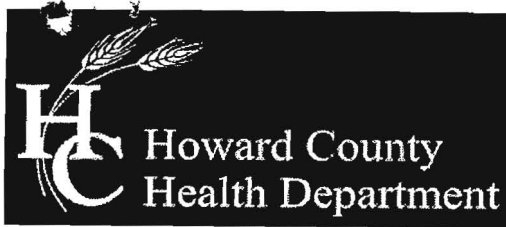
Kunle Ayankoya 09/09/2014
 Owner Kunle Ayankoya Date

Mari D. Morris 9/12/14
 Witness /Date

Adefunke Adegun 9/14/14
 Owner Adefunke Adegun Date

Mari D. Morris 9/12/14
 Witness /Date

B. DePamper for Maura Rossman 9/15/2014
 Health Officer Date



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000085

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 ^{15th} ~~4th~~ day of Sept 2014, among Kunle Ayankoya + Adefunke Adeyemi, 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 Preserve AT Clarksville ~~LOT 14 + Non-Buildable Preservation Parcel B~~, in the 572 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. The pre-treatment device being installed is NORWECO 600 GPD

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.

Beit Rufon 9/15/2014
Howard County Health Department

KUNLE AYANKOYA

Kunle 09/04/2014
Owner #1 Signature Date

Adekunle
Owner #1 Print Name

ADEFUNKE ADEJUNOM
Buyer #1 Signature Date

Buyer #1 Print Name

Owner #2 Signature Date 9/13/14

Owner #2 Print Name

Buyer #2 Signature Date

Buyer #2 Print Name

1/ - Agreement
 Accounting Fee 25.00
 Invoice/Invoice Name
 474000
 Reference/Control #: 65
 1/ - Agreement
 Number: 49.00
 =====
 Total: 28.00
 =====
 Total: 120.00
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Bureau of Environmental Health

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AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN ON-SITE TREATMENT SYSTEM

This agreement is entered into by and between the Howard County Health Department (“the Health Department”) and Kunle Ayankoya & Adefunke Adeyemi (“the Owner”).

WHEREAS, the Owner owns a tract of land at street address 12615 Greenwood Court, Clarksville, MD 21029 and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 34, Block # , Parcel # 0077, Deed Reference # 15236/00011 and Tax Account # 05/448263 (“the Property”).

WHEREAS, the Property lacks an available public drinking water source and is required to have an individual well as the source of drinking water for the residence of the property.

WHEREAS, the Owner has installed a residential drinking well under well permit HO-95-0257 that has been tested by the Health Department (or a private laboratory certified to perform testing) for radionuclide particles. The results of the tests have shown that the gross alpha particle content and/or the gross beta particle content and/or the combined radium 226/228 levels exceeds the standards of 15 picocuries per liter (pCi/L), 4 millirems per year (mrem/yr) and/or 5pCi/L respectively.

WHEREAS, The Maryland Department of the Environment (MDE) has promulgated rules and regulations under which a Certificate of Potability may be issued and has delegated the authority to issue such Certificate to the Health Department.

WHEREAS, MDE regulations permit the Health Department to issue as a special condition, a permanent deviation to the Certificate of Potability for individual wells where treatment has been installed to meet the maximum contaminate levels (MCL’s) for radionuclides.

WHEREAS, MDE has determined that radium can be effectively removed from the drinking water by the use of treatment devices (e.g., ion exchange or reverse osmosis).

WHEREAS, the Owner is requesting that the Health Department issue a Certificate of Potability contingent upon installation and maintenance of a water treatment device to reduce radionuclides.

WHEREAS, neither the Owner nor the Health Department has knowledge of an alternative safe source of water for the Property.

NOW THEREFORE, the parties have agreed to the following terms and conditions:

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Kunle Ayankoya 09/04/2014
 Owner Kunle Ayankoya Date

Mari D. Morris 9/12/14
 Witness Date

Adefunke Adeyuwon 9/14/14
 Owner Adefunke Adeyuwon Date

Mari D. Morris 9/12/14
 Witness Date

R. Dufour for Maura Rosstman 9/15/2014
 Health Officer Date



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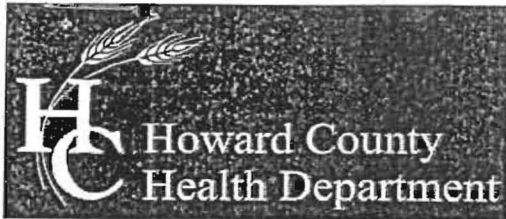
Kunle Ayankoya 09/09/2014
 Owner Kunle Ayankoya Date

Mai B. Monis 9/12/14
 Witness Mai B. Monis Date

Adefunke Adefuwon 9/14/14
 Owner Adefunke Adefuwon Date

Mai B. Monis 9/12/14
 Witness Mai B. Monis Date

B. Dufour for Maura Rossman 9/15/2014
 Health Officer B. Dufour for Maura Rossman Date



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FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM
HAVING AN ADVANCED PRE-TREATMENT SYSTEM**

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WHEREAS, Owner is the owner or contract owner of a parcel of land located at Preserve AT CLARKSVILLE ~~LOT 14 + Non-Buildable Preservation Parcel B~~, in the 5th Election District of Howard County, Maryland, and the deed to same is recorded or shall be recorded among the Land Records of Howard County, Maryland in Liber 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. The pre-treatment device being installed is NORWECO 600 GPD

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.

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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.

Bert Rufon 9/15/2014
Howard County Health Department

KUNLE AYANKOYA

Kunle 09/04/2014
Owner #1 Signature Date

ADEJUNKE 9/4/14
Owner #1 Print Name

ADEFUNKE ADEJUNKE
Buyer #1 Signature Date

Buyer #1 Print Name

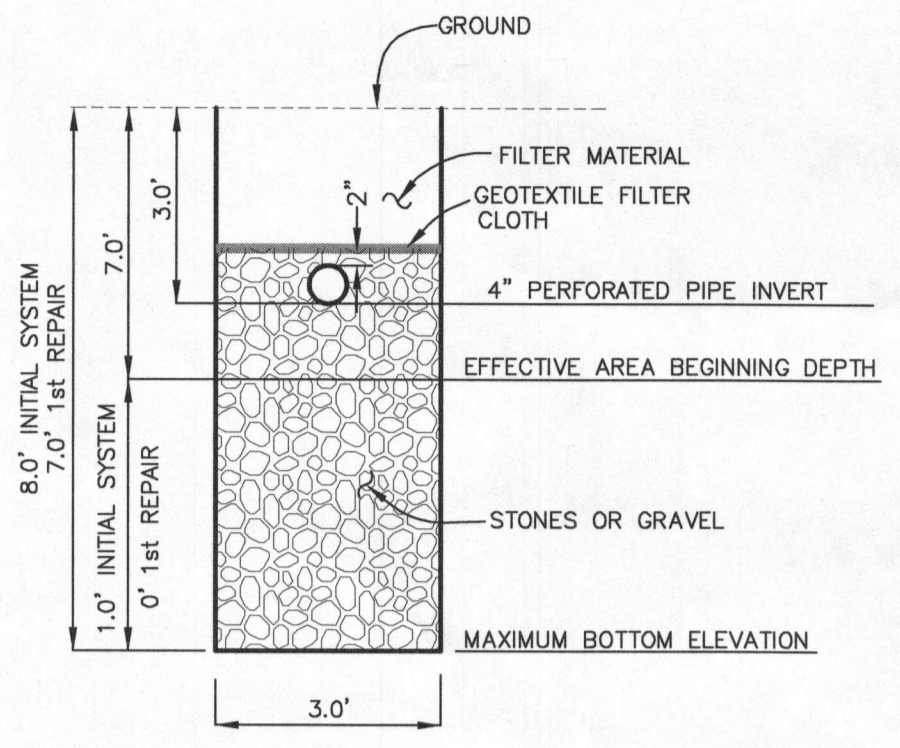
Owner #2 Signature Date @ 9/13/14

Owner #2 Print Name

Buyer #2 Signature Date

Buyer #2 Print Name

- 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.



TYPICAL TRENCH DETAIL
NOT TO SCALE

LEGEND
N00°00'00\"/>

NRCS SOILS CHART - HoCo Soils Map No. 16

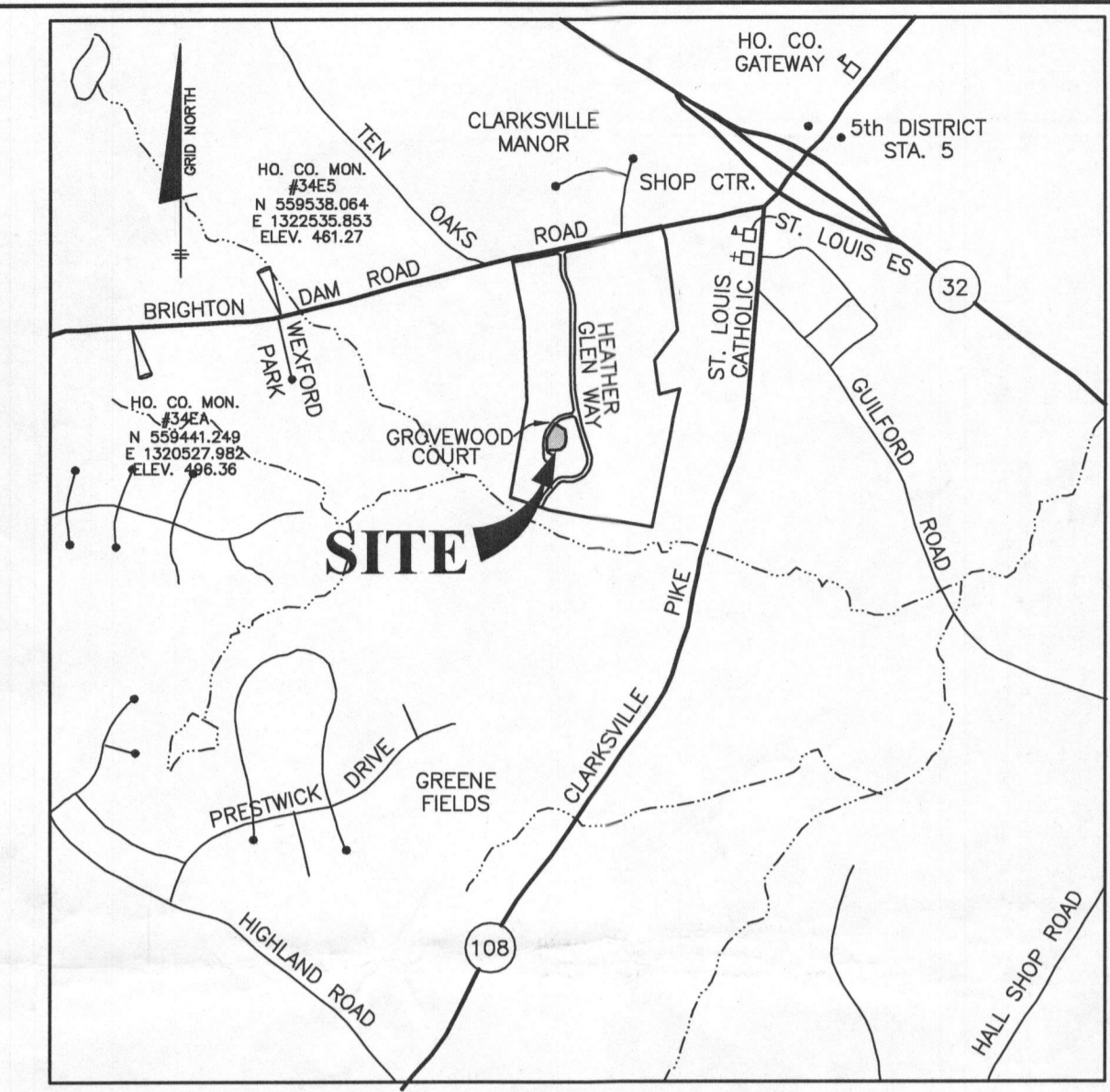
SYMBOL	HYDRIC	GROUP	Kw	MAP UNIT NAME
GgB		B	0.37	GLENELG LOAM, 3 TO 8 PERCENT SLOPES

INITIAL SYSTEM

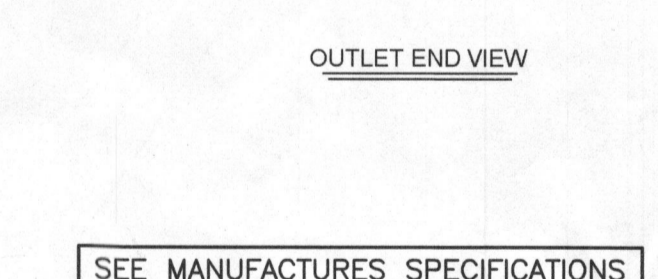
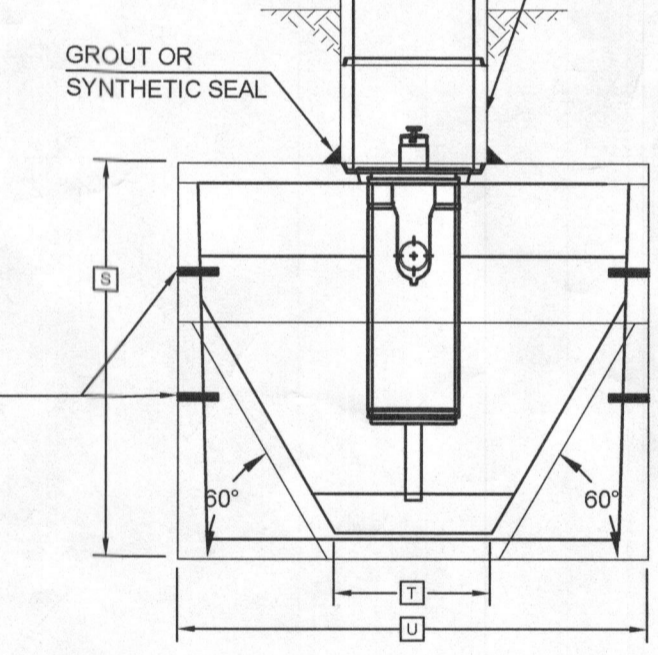
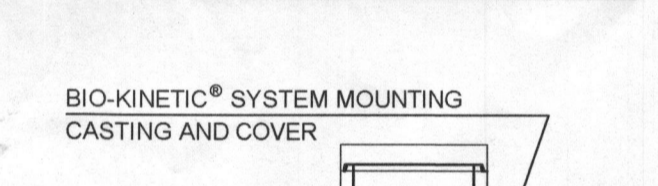
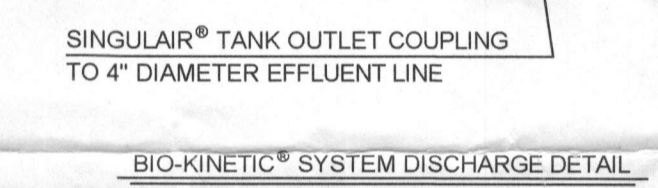
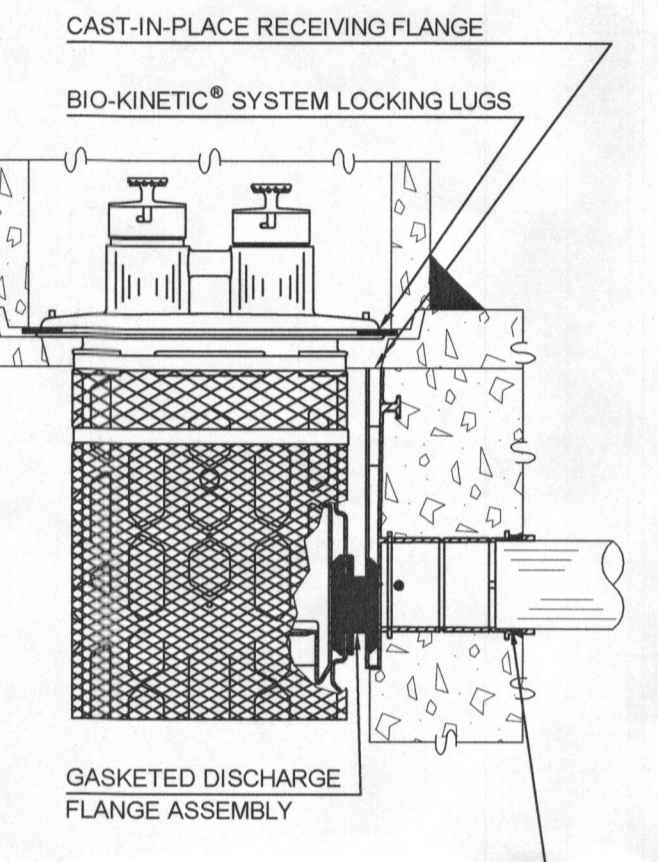
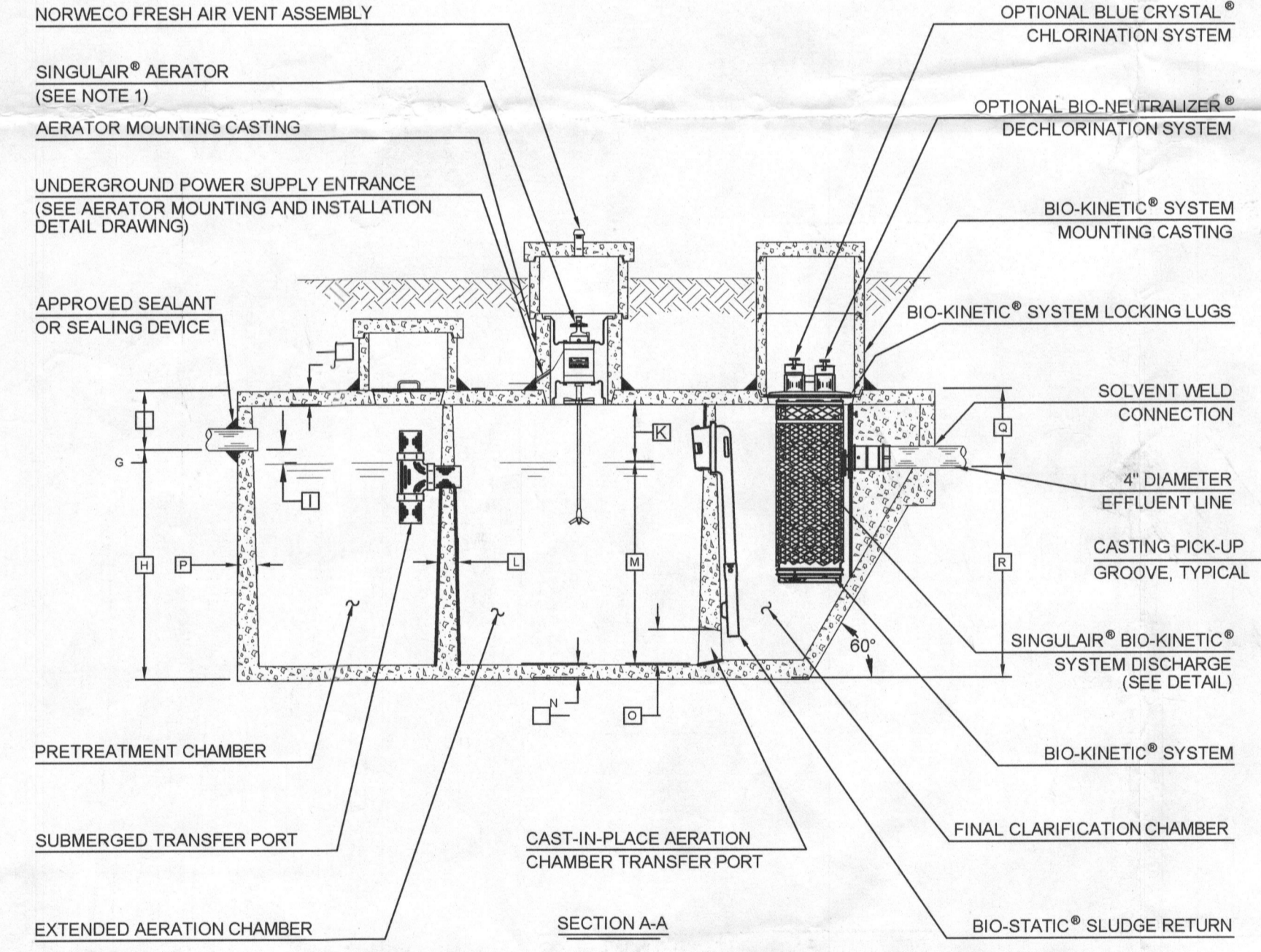
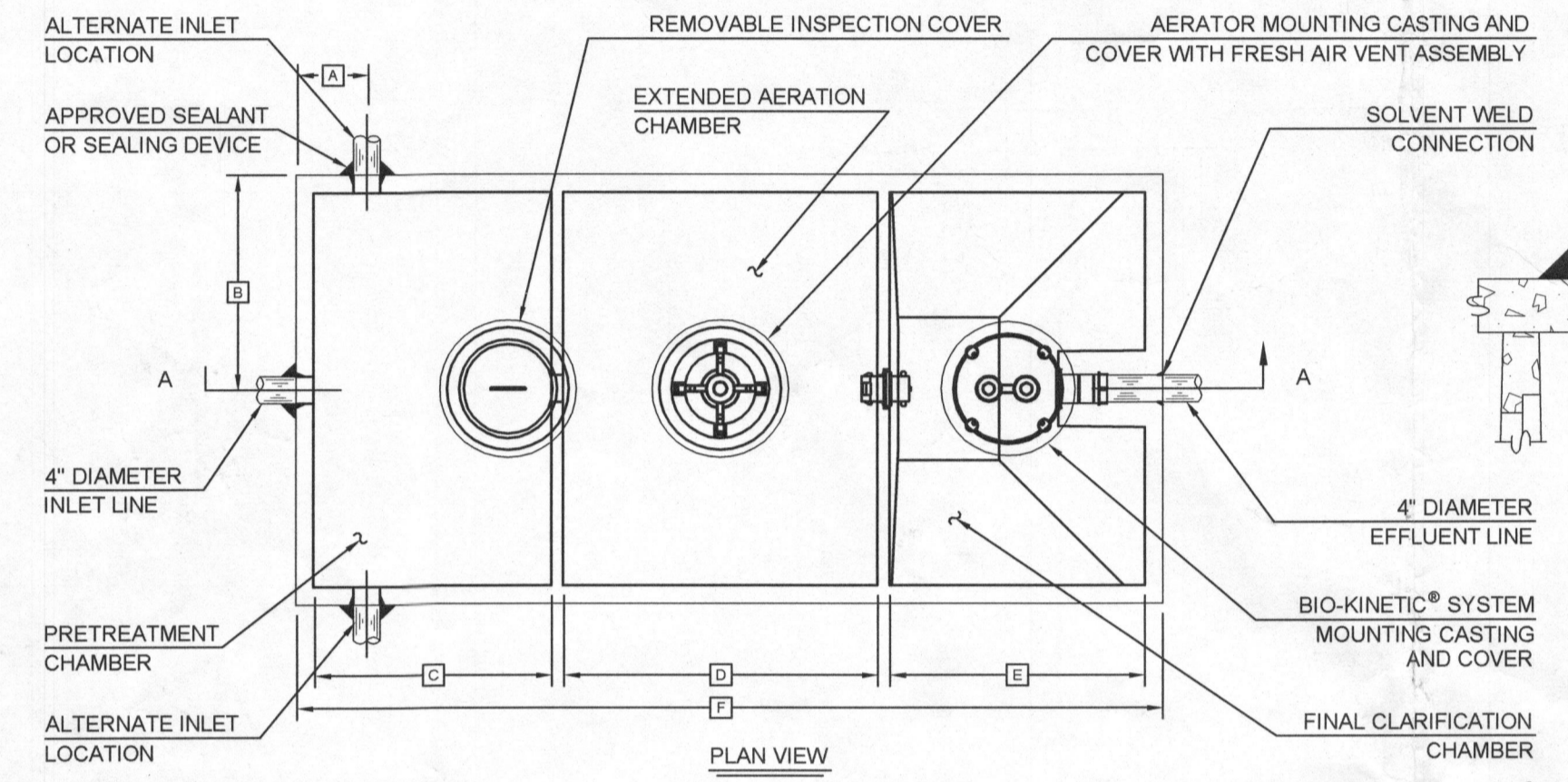
Number of Bedrooms	5
Application Rate	0.8 gpd/sf
Effective Area Beginning Depth	7 ft
Bottom Max Depth	8 ft
Design Flow	750 gpd
Drainage Field square footage	937.5 sf
Sidewall reduction credit	0.8
Trench width	3
Effective Area Depth	1
Linear Length of trench Required	260 lf

1st REPLACEMENT SYSTEM

Number of Bedrooms	5
Application Rate	0.6 gpd/sf
Effective Area Beginning Depth	7 ft
Bottom Max Depth	7 ft
Design Flow	750 gpd
Drainage Field square footage	1250 sf
Sidewall reduction credit	1.0
Trench width	3
Effective Area Depth	0
Linear Length of trench Required	417 lf



34E5 - STAMPED BRASS DISK SET ON TOP OF CONCRETE BASE
34EA - STAMPED BRASS DISK SET ON TOP OF CONCRETE BASE
VICINITY MAP
SCALE: 1" = 2000'



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

CRITICAL DIMENSIONS

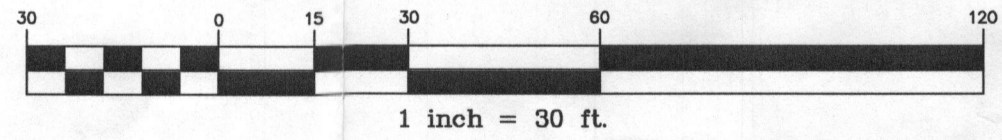
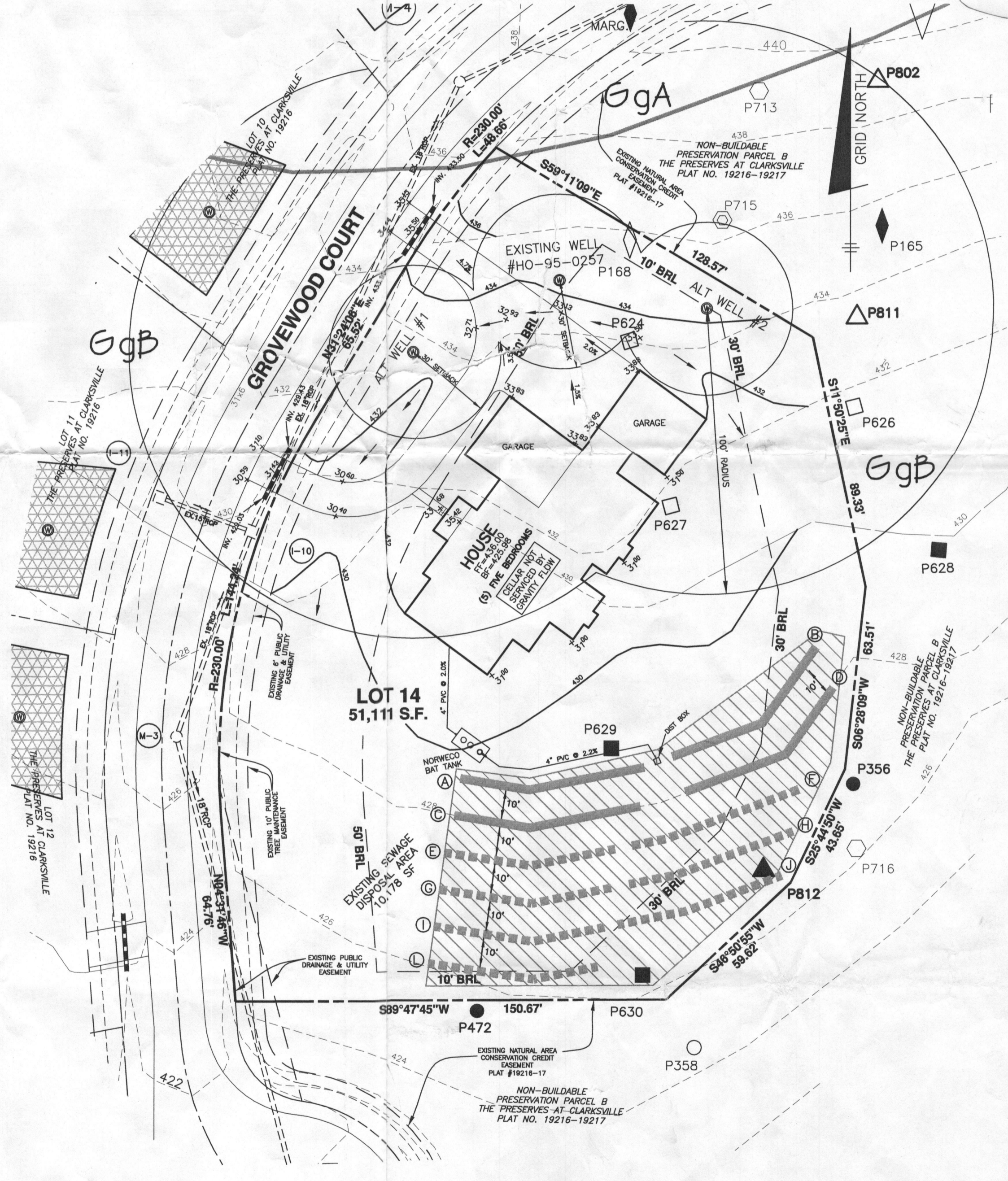
A	1'-0"	N	0'-3"
B	3'-0"	O	0'-6"
C	3'-4"	P	0'-3"
D	4'-5"	Q	1'-4"
E	3'-7"	R	3'-8"
F	12'-2"	S	5'-0"
G	1'-0"	T	2'-0"
H	4'-0"	U	6'-0"
I	0'-3"	V	
J	0'-3"	W	
K	1'-0"	X	
L	0'-2"	Y	
M	3'-6"	Z	

norweco 3-26-07 B
U.S. AND FOREIGN PATENTS PENDING
LOW-PROFILE SINGULAR® BIO-KINETIC® WASTEWATER TREATMENT SYSTEM MODEL TNL-600 GPD
© MMVII PC-5-7091

- GENERAL 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.

NOTES: TOTAL SYSTEM CAPACITY: 1,300 GALLONS
RATED CAPACITY: 600 GALLONS PER DAY PER MANUFACTURER.
ABLE TO SERVICE UP TO FIVE (5) BEDROOMS.

BENCHMARK ENGINEERING, INC.
ENGINEERS & LAND SURVEYORS & PLANNERS
6480 BALTIMORE NATIONAL PIKE & SUITE 315 A ELICOTT CITY, MARYLAND 21043
(P) 410-465-6105 (F) 410-465-6644
WWW.BE-CIVLENGINEERING.COM

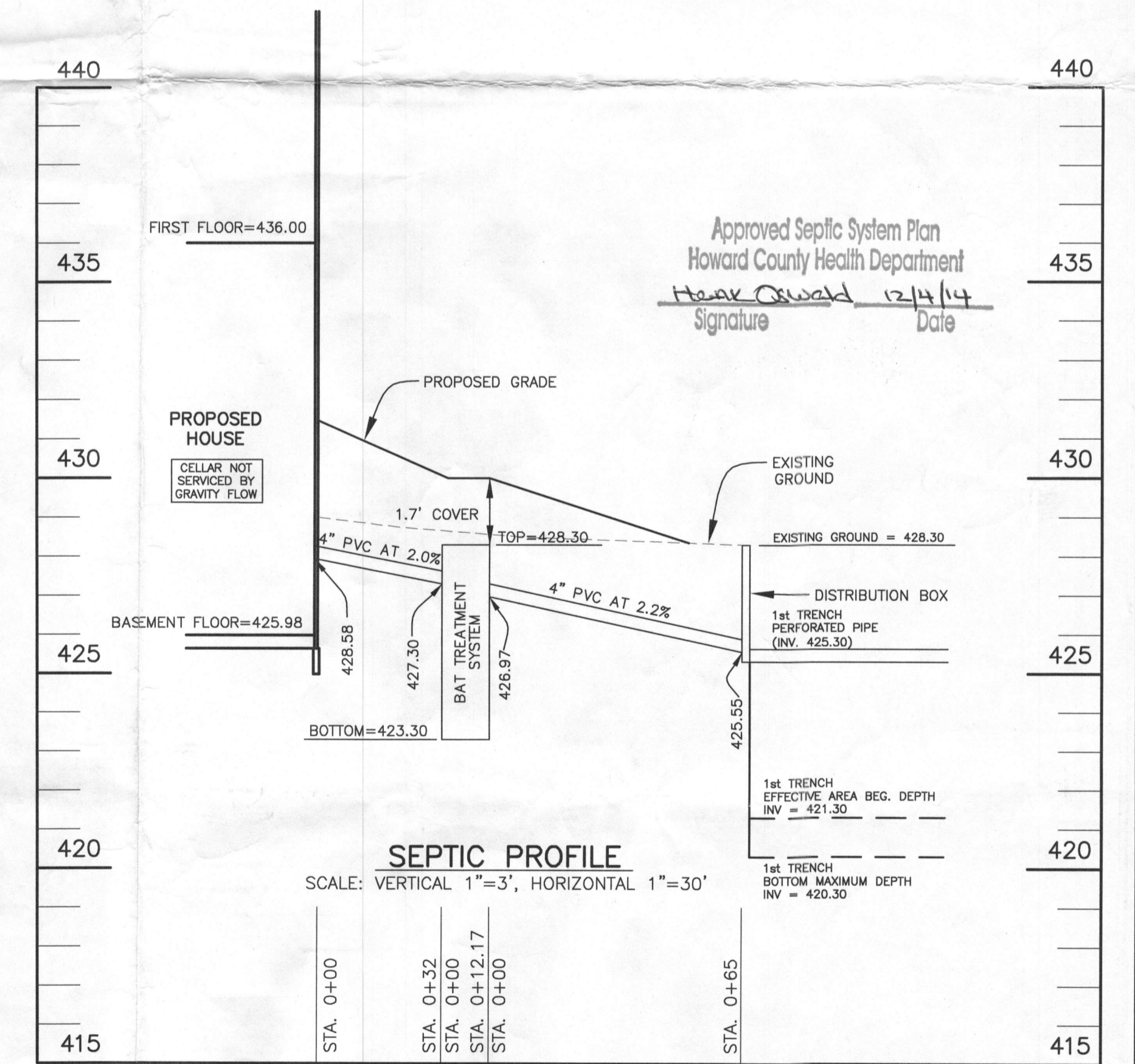


SEPTIC INVERT CHART

INV @ HOUSE	428.58
GROUND @ HOUSE	431.50
INV IN BAT TANK	427.30
INV OUT BAT TANK	426.97
TOP OF BAT TANK	428.30
GROUND OVER TANK	430.00
INV IN DIST BOX	425.55
INV OUT DIST BOX	425.30
GROUND AT DIST BOX	428.30

TRENCH INFORMATION

ⓐ	TRENCH LENGTH	65 LF	ⓐ	TRENCH LENGTH	65 LF
ⓑ	GROUND ELEVATION	428.5	ⓑ	GROUND ELEVATION	428.0
ⓒ	INVERT ELEVATION	425.3	ⓒ	INVERT ELEVATION	425.0
ⓓ	MAX BOTTOM ELEV	420.3	ⓓ	MAX BOTTOM ELEV	420.0
ⓔ	TRENCH LENGTH	60 LF	ⓔ	TRENCH LENGTH	60 LF
ⓕ	GROUND ELEVATION	427.5	ⓕ	GROUND ELEVATION	427.0
ⓖ	INVERT ELEVATION	424.5	ⓖ	INVERT ELEVATION	424.0
ⓗ	MAX BOTTOM ELEV	420.5	ⓗ	MAX BOTTOM ELEV	420.0
ⓓ	TRENCH LENGTH	60 LF	ⓓ	TRENCH LENGTH	60 LF
ⓔ	GROUND ELEVATION	426.5	ⓔ	GROUND ELEVATION	426.2
ⓕ	INVERT ELEVATION	423.5	ⓕ	INVERT ELEVATION	423.2
ⓖ	MAX BOTTOM ELEV	419.5	ⓖ	MAX BOTTOM ELEV	419.2



SEPTIC PROFILE
SCALE: VERTICAL 1"=3', HORIZONTAL 1"=30'

Approved Septic System Plan
Howard County Health Department
Howe Oswald 12/14/14
Signature Date

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 11-6-2014

THE PRESERVE AT CLARKSVILLE
LOT 14
12615 GROVEWOOD COURT
CLARKSVILLE, MARYLAND 21029

BUILDER: WILLIAMSBURG HOMES, INC. 5485 HARRISBURG FARM ROAD SUITE 200 COLUMBIA, MARYLAND 21044 410-997-8800

TAX MAP: 34 GRID: 11 PARCEL: 77
ZONED: RC-DEO ELECTION DISTRICT NO. 5

SITE PLAN FOR BAT INSTALLATION

DATE: NOVEMBER 6, 2014 BEI PROJECT NO: 1407-W
SCALE: AS SHOWN SHEET 1 OF 1