

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: 11/6/14 **ONSITE SEWAGE DISPOSAL SYSTEM** P 555302

INSTALLATION
 APPROVAL DATE: 3/2/15 SEC **PERMIT** A _____
CONSTRUCTION

PROPERTY ADDRESS: 13212 Clarksville Pike

SUBDIVISION: Soong Residence LOT: _____ TAX ID: _____

CONTRACTOR: Farm and Home Excavating EMAIL: _____

CONTRACTOR ADDRESS: 901 Driver Road, Marriottsville, MD 21104 PHONE: 410442-4139

PROPERTY OWNER: Michael Soong EMAIL: _____

OWNER ADDRESS: 13212 Clarksville Pike, Highland, MD 20777 PHONE: _____

BAT UNIT MODEL: ~~Normeco~~ Ecopod 750 PUMP SIZE: 1600GAL PUMP TANK CAPACITY: 750GPD

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

TRENCHES:	LINEAR FEET REQUIRED: <u>SEE BAT PLAN 132'</u>	INLET DEPTH: <u>SEE BAT PLAN 4'</u>
	TRENCH WIDTH: <u>SEE BAT PLAN 3'</u>	MAXIMUM BOTTOM DEPTH: <u>SEE BAT PLAN 8'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>SEE BAT PLAN 9'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>SEE BAT PLAN 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:	<u>Ecopod 750 To Be Installed</u> <u>2x66' Trenches</u>	

ISSUED BY: Dana Bernard ISSUE DATE: 11/6/14 EXPIRATION DATE: 11/6/15

- 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.

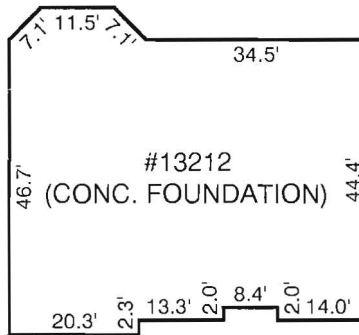
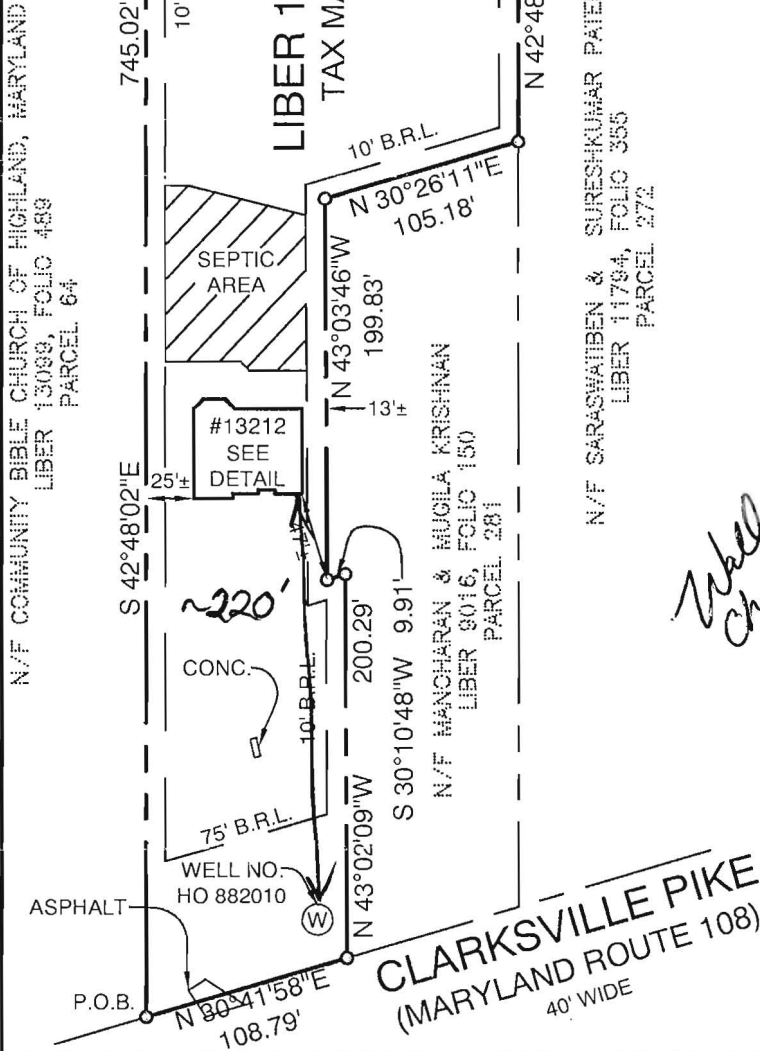
Handwritten notes:
 66 - 3/2/15 far
 61 - 3/1/15
 9 of

NON-BUILDABLE PARCEL A-2
 KOANDAH GARDENS ESTATES, PLAT NO. 15373
 S 46°28'15"W 193.83'

NOTES:

1. THIS PLAT IS A BENEFIT TO THE CONSUMER ONLY INsofar AS IT IS REQUIRED BY A LENDER OR A TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH CONTEMPLATED TRANSFER, FINANCING OR REFINANCING PURPOSES. THIS PLAT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATION OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE STRUCTURES. THIS PLAT DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR FOR SECURING FINANCING OR REFINANCING.
2. THE +/- SETBACK ACCURACY IS 1 FOOT.
3. THIS PLAN OR PLAT IS NOT INTENDED TO SHOW ALL MATTERS RELATED TO THE PROPERTY SHOWN HEREON.
4. THIS LOT DOES NOT APPEAR TO LIE WITHIN THE 100 YEAR FLOOD PLAIN AS SHOWN ON THE F.E.M.A. FLOOD HAZARD MAP 24027C-0140-D AS REVISED NOVEMBER 6, 2013.
5. DEED PLOTTING ONLY.
6. BUILDING RESTRICTION LINES (B.R.L.) SHOWN HEREON ARE PER THE 2013 HOWARD COUNTY ZONING REGULATIONS, EFFECTIVE OCTOBER 2013.
7. SEPTIC AREA SHOWN IS PER CLIENT SUPPLIED PERCOLATION CERTIFICATION PLAN.

WALL CHECK : JULY 29, 2014
 TOP OF WALL ELEV. = 491.6'



DETAIL
 SCALE: 1"=30'

LOCATION DRAWING
 13212 CLARKSVILLE PIKE
 TAX MAP 40, PARCEL 63
LIBER 15256, FOLIO 206
 ELECTION DISTRICT NO. 5
 HOWARD COUNTY, MARYLAND

CERTIFICATION
 I HEREBY CERTIFY THAT I WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION OF THIS LOCATION DRAWING AND THE SURVEY WORK REFLECTED THEREIN, IS IN COMPLIANCE WITH REQUIREMENTS SET FORTH IN THE CODE OF MARYLAND TITLE 9, SUBTITLE 13, CHAPTER 06, REGULATION 12, AND THAT THE POSITION OF EXISTING IMPROVEMENTS AS SHOWN HEREON, ARE CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MICHAEL D. ADCOCK
 PROFESSIONAL LAND SURVEYOR
 NO. 21257, EXPIRATION DATE: 06/30/2014

Adcock & Associates · LLC

Engineers · Surveyors · Planners
 3300 North Ridge Road, Suite 160
 Ellicott City, Maryland 21043
 Phone: 443.325.7682 Fax: 443.325.7685
 Email: mike@saaland.com

REFERENCE:	L: 15256, F. 206
DATE:	AUGUST 6, 2014
SCALE:	1"=100'
FILE NO.:	14-027

MEMBER N. C. B. V. A.

MEMBER P. C. B. V. A.

Babylon

VAULT

S I N C E 1 9 3 0

Burial Vaults - Septic Tanks

PHONE: 410-848-0393
 FAX: 410-848-3551

925 WAKEFIELD VALLEY ROAD
 NEW WINDSOR, MD 21776

**Five Year Initial Service Policy
 On Site Wastewater Treatment System**

Brand Name: <u>Ecopod</u>	Model Number: <u>Ecopod 75</u>
Purchase Date: _____	Serial Number: <u>E75N-01116CA</u>

INITIAL POLICY:

A five (5) year service policy shall be furnished to the user by the Installer.

This policy is included in the original purchase price and shall provide the following:

1. An inspection/service call every six months which includes inspections, adjustment and servicing of the mechanical and electrical component parts as necessary to ensure proper function for the first year. And once a year there after..
2. An effluent quality inspection every six months consisting of a visual check for color, turbidity, scum overflow, and an examination for odors for the first year. And then once a year there after.
3. A sample shall be pulled from the aeration tank once a year as described in the "Solids Removal" Section to determine if there is an excess of solids in the treatment plant. If the test results determine if there is an excess of solids in the treatment plant. If the rest results determine a need for solids removal, the user will bear the cost and responsibility for doing so.
4. If any improper operation is observed which cannot be corrected at that time, the user shall be notified immediately in writing of the conditions and the estimated date of correction.

Violations of Warranty including shutting off the electric current to the system for more than 24 hours, disconnecting the alarm system restricting ventilation to the aerator, overloading the system above its rated capacity, or introducing excessive amounts of harmful matter into the system, or any other form of unusual abuse.

**THIS POLICY DOES NOT INCLUDE PUMPING
 SLUDGE FROM UNIT IF NECESSARY**

PERMITTING AUTHORITY:

SYSTEM OWNER:

INSTALLATION LOCATION:

DISTRIBUTOR:

13212 Clarksville Pike
Highland, MD 20777

Babylon Vault Co.
925 Wakefield Valley Rd.
New Windsor, MD 21776

INSTALLER:

SERVICE COMPANY:

Farm + Home Excavating Inc.
901 Dwyer Rd.
Mariottsville, MD 21104

Babylon Vault Co.
 Service Operators License Number: Steven Kowitz G.M.

I agree to abide by the service policy as stated above: _____

Witness: _____

e3 Environmental LLC

302-725-0788 www.e3onsite.com

ECOPOD-N Completion Statement

Installation Information

Owners Name		# of Bedrooms / GPD	5
Street	13212 Clarksville Pike	Repair	<input type="checkbox"/>
City	Highland	New Construction	<input checked="" type="checkbox"/>
State	MD		
Zip	20777		

Installation Company

Company	Farm Home Excavating Inc	Installed Date	12/15/14
Certified Installer		Startup Date	3/2/15
Street	901 Dnver Road		
City	Marnottsville		
State	MD		
Zip	21104		

ECOPOD-N

Model #	Serial #
E50	
E60	
E75	E75N-01116CA
E100	
E150	

Blower Voltage	Good
Blower Running Amps	Good
Inches of water over media with blower turned off	2 inches
Vent Installed	Yes
Tanks and Risers Water tight	Yes
Alarm Functional	Yes

I hereby certify that the ECOPOD-N wastewater treatment system has been installed and started up in accordance with the construction permit and is in compliance with the manufacturers recommendations

Company Babylon Vault Co.
Signature Steven R. Koontz
Printed Name Steven Koontz G.M.

Date 3/2/15

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: SOEING
Reference/Control #: 112

LR - Agreement Surcharge
1x 40.00 40.00

=====
SubTotal: 60.00
Total: 60.00

=====
REV-Check-BOA 60.00
Number : 830

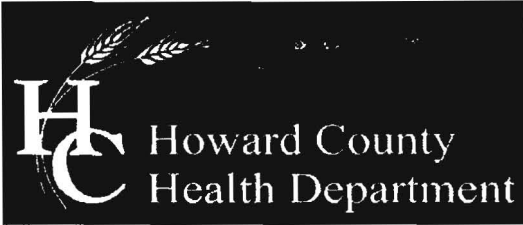
03/11/2014 13:11
#2547334 /494/109

CC13-NN

Thank you for visiting us today~

15212
Clarksville Pike

LIBER 15494 FOLIO 105



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

000112

OPERATION AND MAINTENANCE AGREEMENT FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM HAVING AN ADVANCED PRE-TREATMENT SYSTEM

THIS AGREEMENT is made this 10th day of MARCH 2014, among MICHAEL SOONG & RU XU, 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 13212 CLARKSVILLE AVE. HIGHLAND MD, in the 05 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 15256 Folio 206

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.

20
10

NOW, THEREFORE, the parties hereto agree as follows:

M

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.

Michael Soong 3/10/14
Owner Date
MICHAEL SOONG

Rui Erika Xu 3/10/14
Owner Date
RUI ERIKA XU

Michael J. Davis 3/11/14
Howard County Health Department

LA Agreement
Recording Fee 25.00
Grantor/Grantee Name:
COLINS
Reference/Control #
119
LA Agreement
Purchase 49.00
Subtotal 74.00
Total 74.00
#2547834-1
03/11/2014 01:17
2013-00
#2547834 000503 -
Howard Co.
Columbia/CODE 08 02 -
Register 82 484

Bernard, Dana

From: Bernard, Dana
Sent: Wednesday, June 04, 2014 5:36 PM
To: 'Xu, Rui'
Subject: RE: Soong Residence at 13212 Clarksville Pike BAT and PC
Attachments: 13212 Clarksville .pdf

Mr. Wei,

I called to speak with you but you were out of the office on Monday. I have attached the Soong Residence Plan and we have almost completed our review. However we need address the object located in the well box (the orange highlighted object). I don't remember it and if it is a structure we need to label it . Call me if you have any questions. If needed I can make the corrections with your permission.

Thanks
Dana

From: Xu, Rui [mailto:Rui_Xu@cable.comcast.com]
Sent: Tuesday, June 03, 2014 12:33 PM
To: Bernard, Dana; Williams, Jeffrey
Cc: 'msoong@comcast.net'
Subject: RE: Soong Residence at 13212 Clarksville Pike BAT and PC

Good afternoon Dana and Jeff,

We just want to follow up on the status of our BAT and PC application. I delivered 3 copies back on May 21st. When I check the Howard Count Licenses and Permit department website this morning, I still saw the status of health department is on hold, waiting for Demo and PC.

Could you please let us know when the approval process will complete or if we need to do anything additional to get the approval? Your prompt response is greatly appreciated!

Rui

From: Xu, Rui
Sent: Wednesday, May 21, 2014 10:13 AM
To: Bernard, Dana
Cc: Wei, BaoZhu; msoong@comcast.net; Jeffrey Williams
Subject: RE: Soong Residence

Good morning Dana and Jeff,

I delivered 3 copies of our BAT and PC drawing this morning to your office, they are signed and sealed by our engineers and are in scale. The person who received and stamped date them at your office is Marian (I believe). She said she will log them into the system and then it will go to Dana for review.

We thank you very much for all your attention and efforts all along on our case. Could you please let us know what's the next step, such as how long usually the signature approval process will take from this point going forward? Again, we will have weekly call with our builder soon, so we just want to give them a fair update on our progress.

We are also in the process of preparing the final site plan drawings, incorporating the BTA and PC updates about the septic system we turned in today to you, and we will submit to County this week for final building permit release. Please let us know if you think we foresee any further changes on the BAT and PC drawings ASAP.

Thanks again and looking forward to hearing from you soon!

Rui

----- Forwarded message from "Bernard, Dana" <dbernard@howardcountymd.gov> -----

Date: Tue, 20 May 2014 17:20:25 +0000
From: "Bernard, Dana" <dbernard@howardcountymd.gov>
Reply-To: "Bernard, Dana" <dbernard@howardcountymd.gov>
Subject: RE: Soong Residence
To: "Baozhu Wei, P.E." <baozhuwei@endescoinc.com>

Mr. Wei. The looks fine lets submit for signature.

-----Original Message-----

From: Baozhu Wei, P.E. [<mailto:baozhuwei@endescoinc.com>]
Sent: Wednesday, May 14, 2014 2:15 PM
To: Bernard, Dana
Cc: msoong@comcast.net; Rui_Xu@cable.comcast.com; kevinhuang@endescoinc.com
Subject: Soong Residence

Dana:

Please see attached plans that has been revised per our meeting on Monday. If you have any questions, please let me know. Thanks.

--
Baozhu Wei, P.E.
Senior Project Manager
ENDESCO, INC.
438 N. Frederick Ave., Suite 455
Gaithersburg, MD 20877
P: 301-987-8776; F: 301-987-8777

----- End forwarded message -----

Bernard, Dana

From: Xu, Rui [Rui_Xu@cable.comcast.com]
Sent: Thursday, June 05, 2014 9:00 AM
To: Baozhu Wei, P.E.; Bernard, Dana; Williams, Jeffrey
Cc: msoong@comcast.net; kevinhuang@endescoinc.com
Subject: RE: FW: Soong Residence at 13212 Clarksville Pike BAT and PC

The entire old house area has nothing left now but the well, which was capped by our contractor after he demolished the house recently. I don't think there is any specific vegetable planting area left anywhere around the house. All the area are clear and flat as of now.

Dana, please let us know if you need us to do anything additional before you can complete your review.

Thanks!

Rui

From: Baozhu Wei, P.E. [mailto:baozhuwei@endescoinc.com]
Sent: Thursday, June 05, 2014 8:56 AM
To: Bernard, Dana; Jeffrey Williams
Cc: msoong@comcast.net; Xu, Rui; kevinhuang@endescoinc.com
Subject: Re: FW: Soong Residence at 13212 Clarksville Pike BAT and PC

Dana:

That area you labeled was a vegetable planting area, I guess it has been removed. Please make the corrections as you needed.

If you have any questions, please let me know. Thanks for your review.

Rui:

Please confirm the area Dana labeled was vegetable planting area and removed.

Thanks.

Baozhu Wei, P.E.
Senior Project Manager
ENDESCO, INC.
438 N. Frederick Ave., Suite 455
Gaithersburg, MD 20877
P: 301-987-8776; F: 301-987-8777

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Thanks again and looking forward to hearing from you soon!

Rui

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Subject: RE: Soong Residence
To: "Baozhu Wei, P.E." <baozhuwei@endescoinc.com>

Mr. Wei. The looks fine lets submit for signature.

-----Original Message-----

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Sent: Wednesday, May 14, 2014 2:15 PM
To: Bernard, Dana
Cc: msoong@comcast.net; Rui_Xu@cable.comcast.com; kevinhuang@endescoinc.com
Subject: Soong Residence

Dana:

Please see attached plans that has been revised per our meeting on Monday. If you have any questions, please let me know. Thanks.

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Baozhu Wei, P.E.
Senior Project Manager
ENDESCO, INC.
438 N. Frederick Ave., Suite 455
Gaithersburg, MD 20877
P: 301-987-8776; F: 301-987-8777

Geisert, Andrew

From: msoong@comcast.net
Sent: Friday, March 28, 2014 11:08 AM
To: Geisert, Andrew
Cc: Erika Xu; Rui Xu
Subject: Re: 13212 Clarksville Pike Demo Request

3/31/14
* Abandonment of
Septic Completed
-AG

Good Morning, Andrew,

Our site contractor Farm and Home Excavating Inc has completed the demolition of existing septic system yesterday and they faxed relevant documents to your office last night. We would greatly appreciate if you can expeditiously review the submitted documents and provide a statement to us and Howard county zoning office. Your statement will enable us to obtain demolition permit of the existing house.

Thank you so much.
Michael

From: "Andrew Geisert" <ageisert@howardcountymd.gov>
To: msoong@comcast.net
Sent: Friday, March 14, 2014 9:50:54 AM
Subject: RE: 13212 Clarksville Pike Demo Request

Mr. Soong

Prior to Demolition Permit approval, you will need to abandon the existing septic tank on your property. Please have a contractor pump the contents of the septic tank and supply the Health Department with the pumping record. Once the tank has been emptied, the contractor may collapse and fill/remove the structural components. When the Health Department has confirmation of these tasks completion, you may be granted your Demolition Permit.

Please contact me if you have any questions.

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

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

From: msoong@comcast.net [mailto:msoong@comcast.net]
Sent: Wednesday, March 12, 2014 1:14 PM
To: Geisert, Andrew
Cc: Erika Xu; erikaxu@comcast.net; Wolf, Kevin
Subject: 13212 Clarksville Pike Demo Request

Good afternoon, Mr. Geisert,

We would like to just give you an update on our situation. We had been trying to apply the overall demo permit from Department of Licensing and Permit in order to move the needle on our building permit application. We are going to build a new house on the lot and demolish the old house and Septic tank, but keep the well for future use.

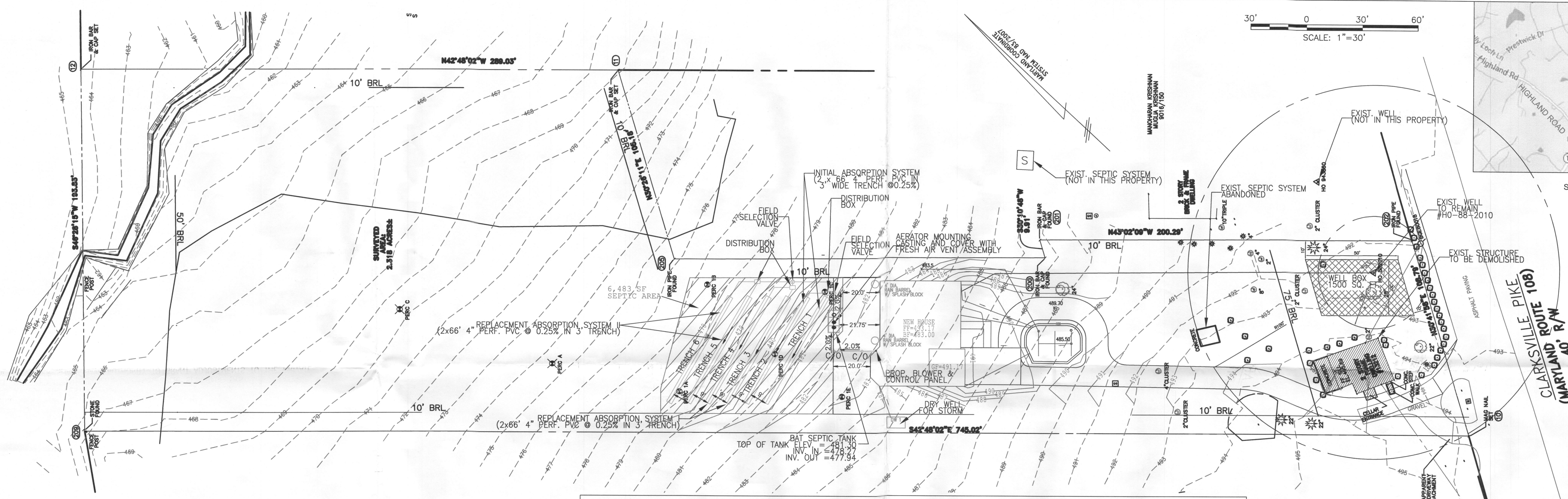
We got all the disconnection letters and documents from County Historical Preservation department already. Health Department demo comments and approval letter is the only one we currently are collecting to turn in the demo permit application. We had provided Ms. Bernard the documents she requested per her comments we received on 3/5/2014. We turned in all of them yesterday at the health department location. A gentlemen named Robert told us we should be able to start our demo application after he showed all the percolation certification plan we turned in to his supervisor.

Our question is: do you need anything else from us to provide the Health department demo approval letter? what are the other factors will prevent you to issue the health department demo approval? Will we get notified by email when it's done? With the snow we got this winter, we are already a little behind the schedule for construction, so we are trying our best to get all the paper work done. We totally understand there are a lot on your plates, but just want to brief you in on our case and get an estimate on how long it would take.

Thank you so much for your help in advance.

Regards,

Michael and Rui



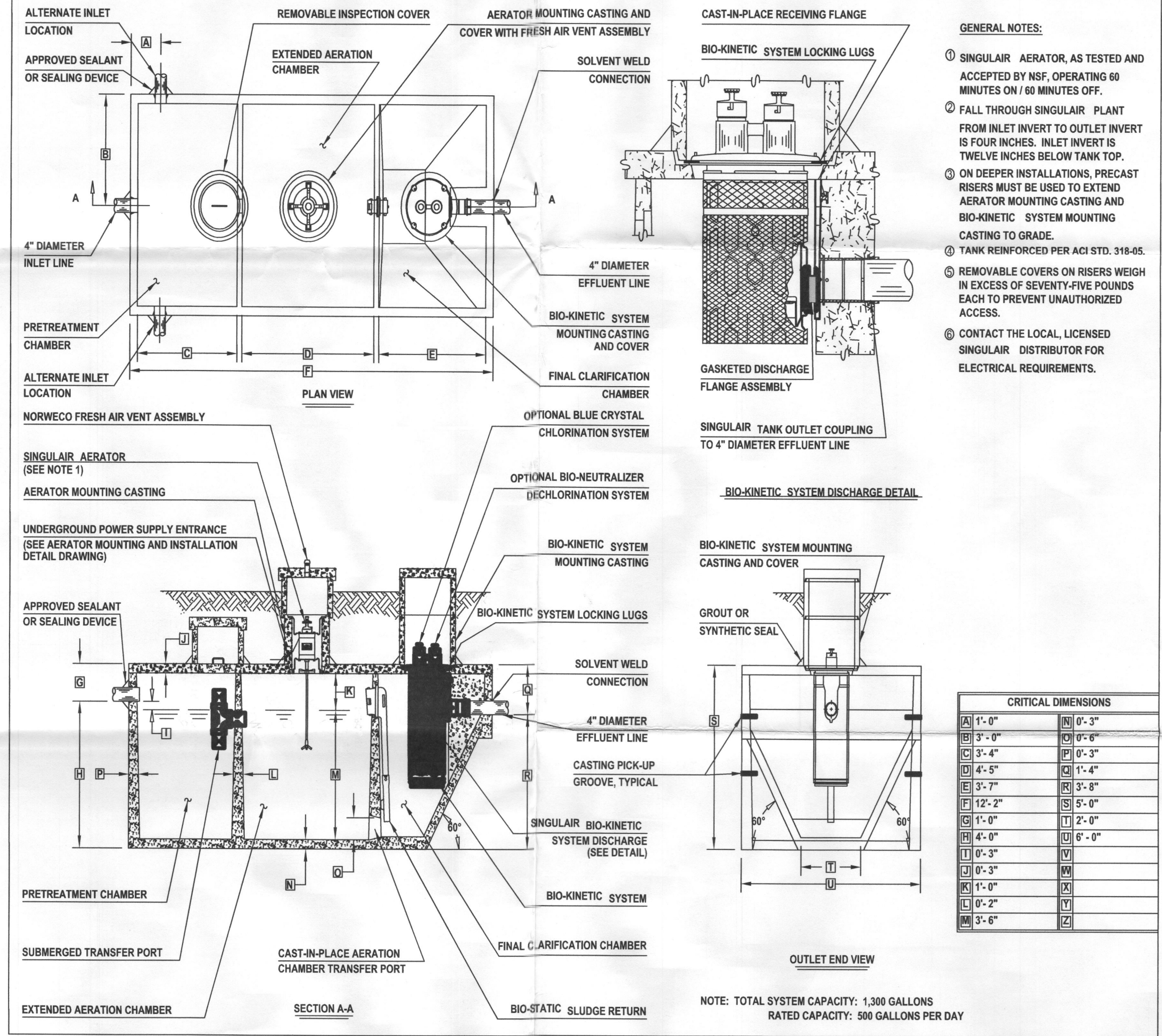
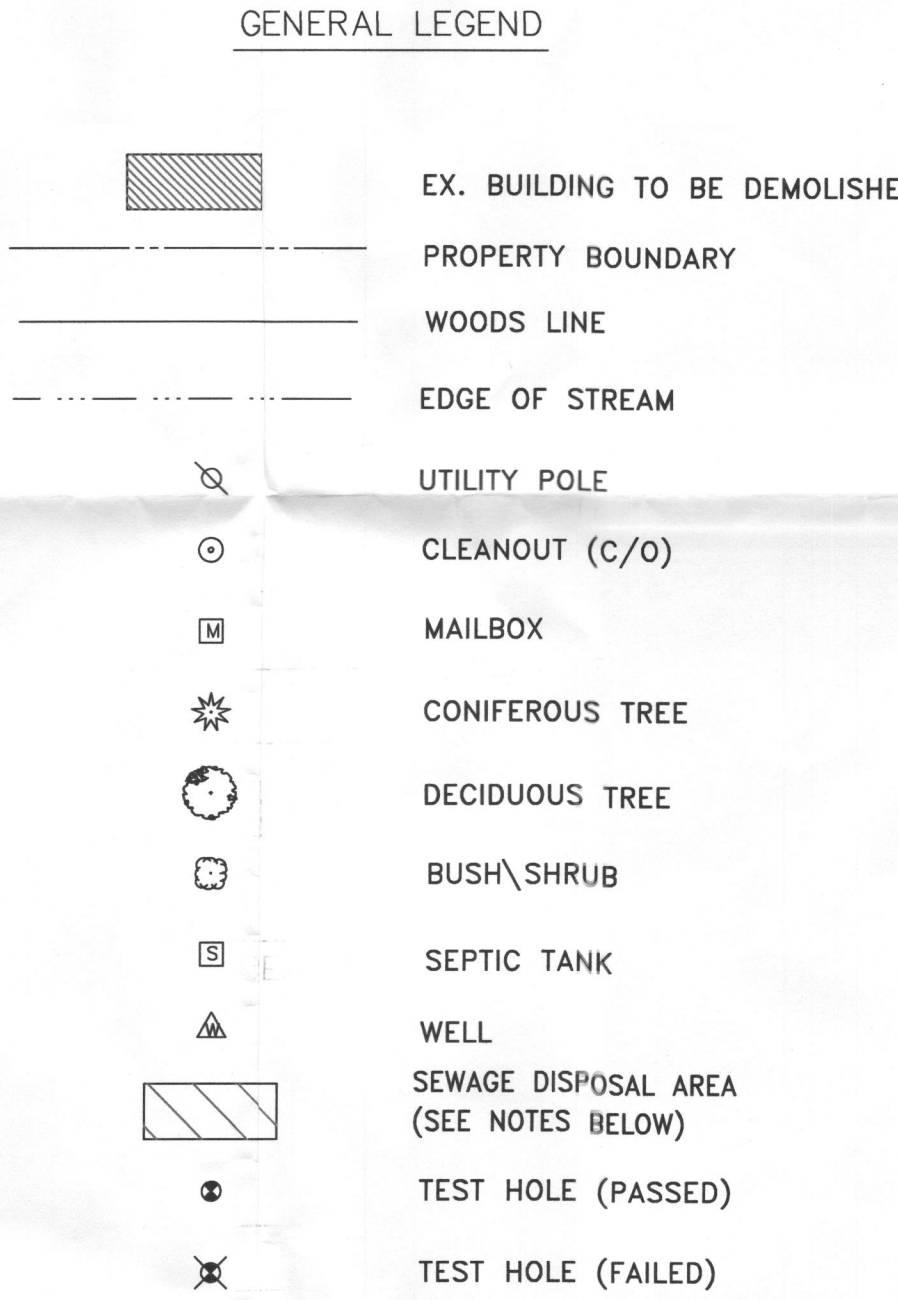
ENDESCO, INC.
 ENGINEERS, DESIGNERS & CONSULTANTS
 438 NORTH FREDERICK AVENUE
 SUITE 455
 GAITHERSBURG, MD-20877

TITLE
SITE PLAN FOR BAT INSTALLATION

SOONG RESIDENCE
 13212 CLARKSVILLE PIKE
 HIGHLAND, MD 20777-9703

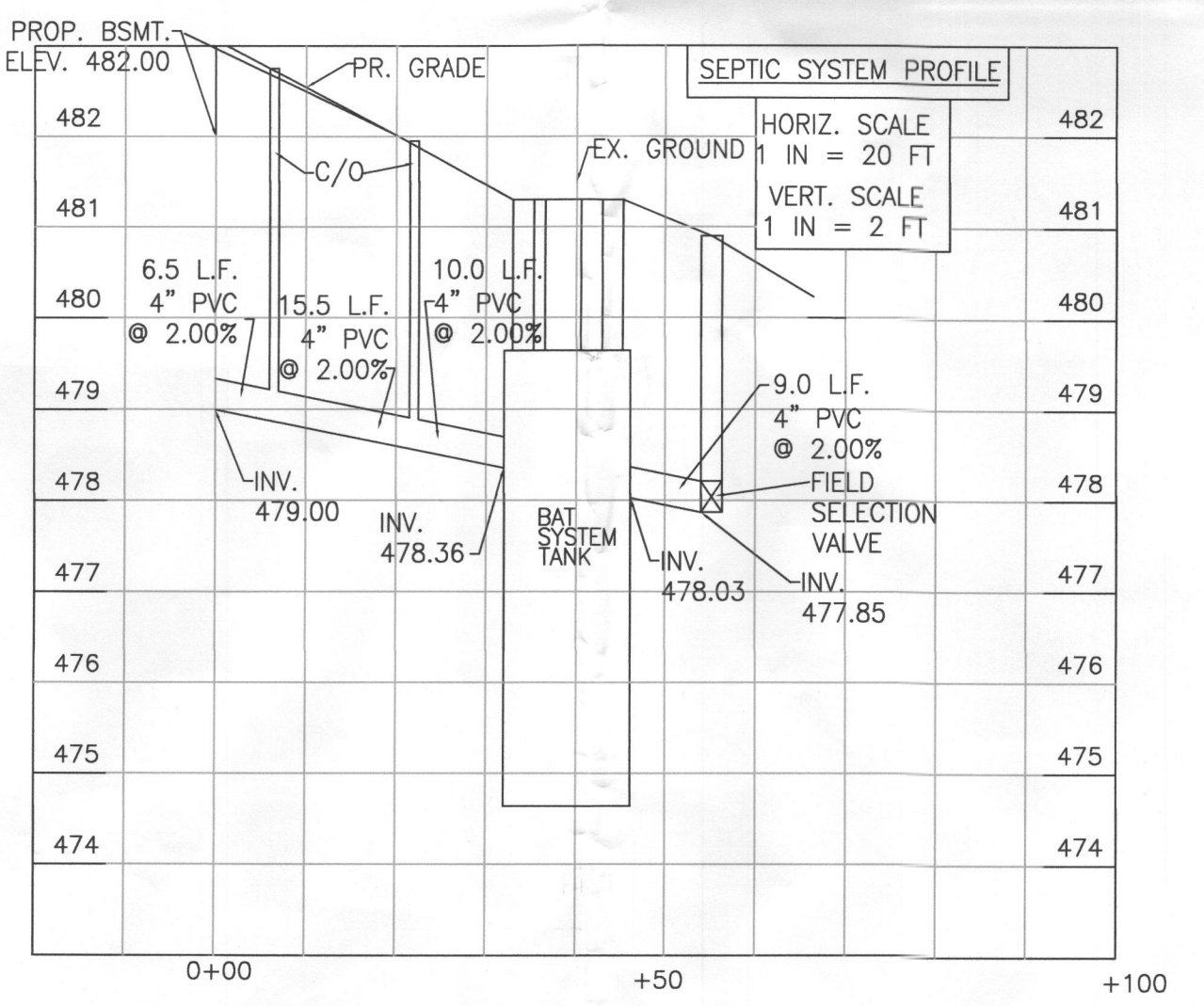
DATE	FILE NO	SHEET	REVISIONS	
			NO.	DESCRIPTION
MAR 2014	1 of 2	1 of 2	1.	
			2.	
			3.	
			4.	

- STANDARD 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 COVER OF THE BAT PER THE MANUFACTURERS SPECIFICATION IS 3 FEET.
 - THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON THE MANUFACTURER SPECIFICATIONS.
 - 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.
 - THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT RECORDATION OF A REVISED OR MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.



CRITICAL DIMENSIONS

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

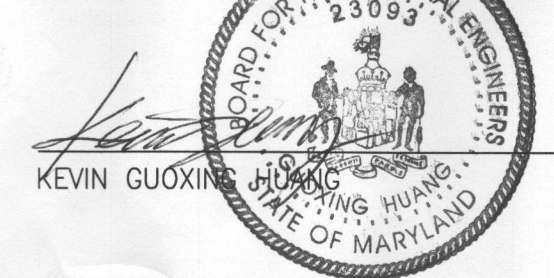


OWNER/DEVELOPER: MICHAEL SOONG
 11525 JAMESTOWN COURT
 LAUREL, MD 20723
 TEL - (240) 568-9559

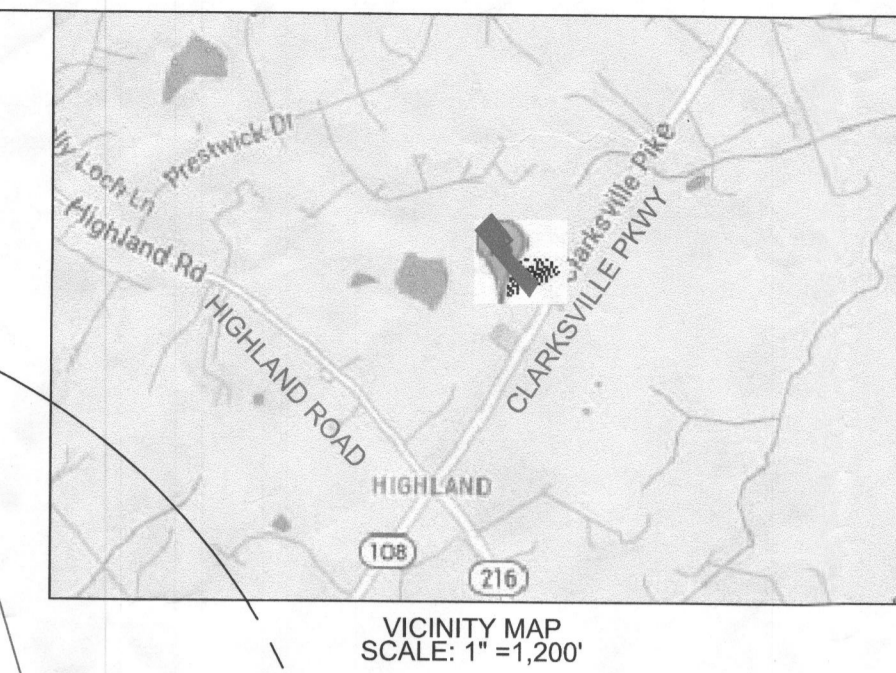
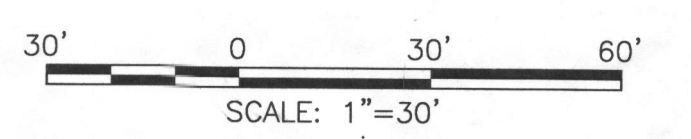
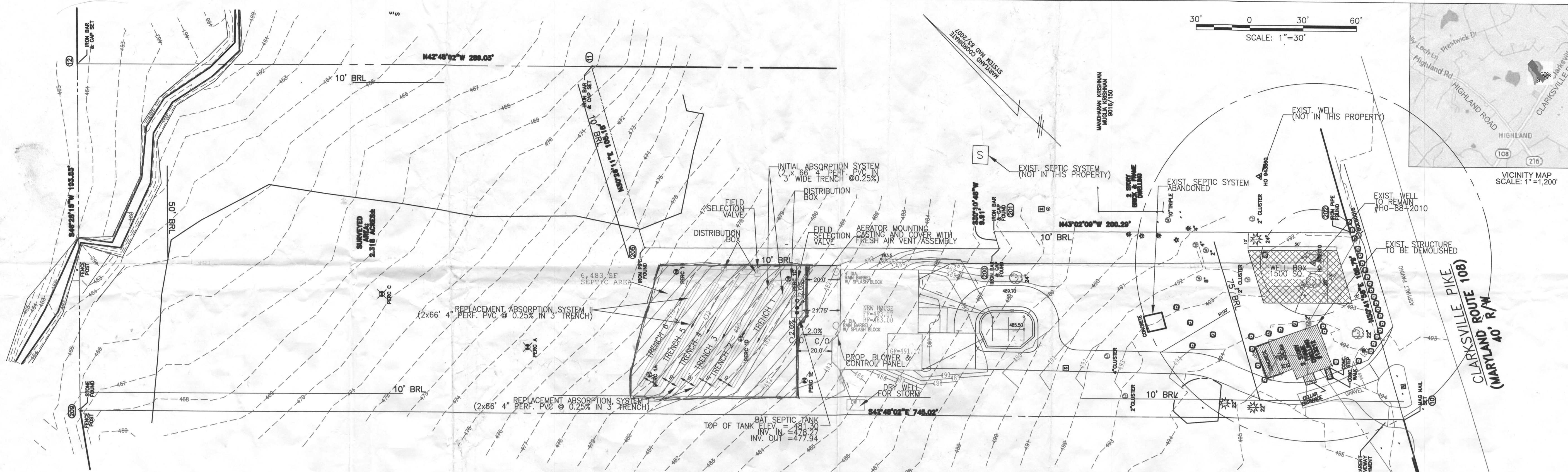
ENGINEERING FIRM: KEVIN GUOXING HUANG, P.E.
 ENDESCO, INC
 438 N. FREDERICK AVE. SUITE 455
 GAITHERSBURG, MD 20877
 TEL - (301) 987-8776

"APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS"
 HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE

PROFESSIONAL CERTIFICATION
 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."



NOTE: SEE SHEET 2 FOR OPERATION AND MAINTENANCE AGREEMENT

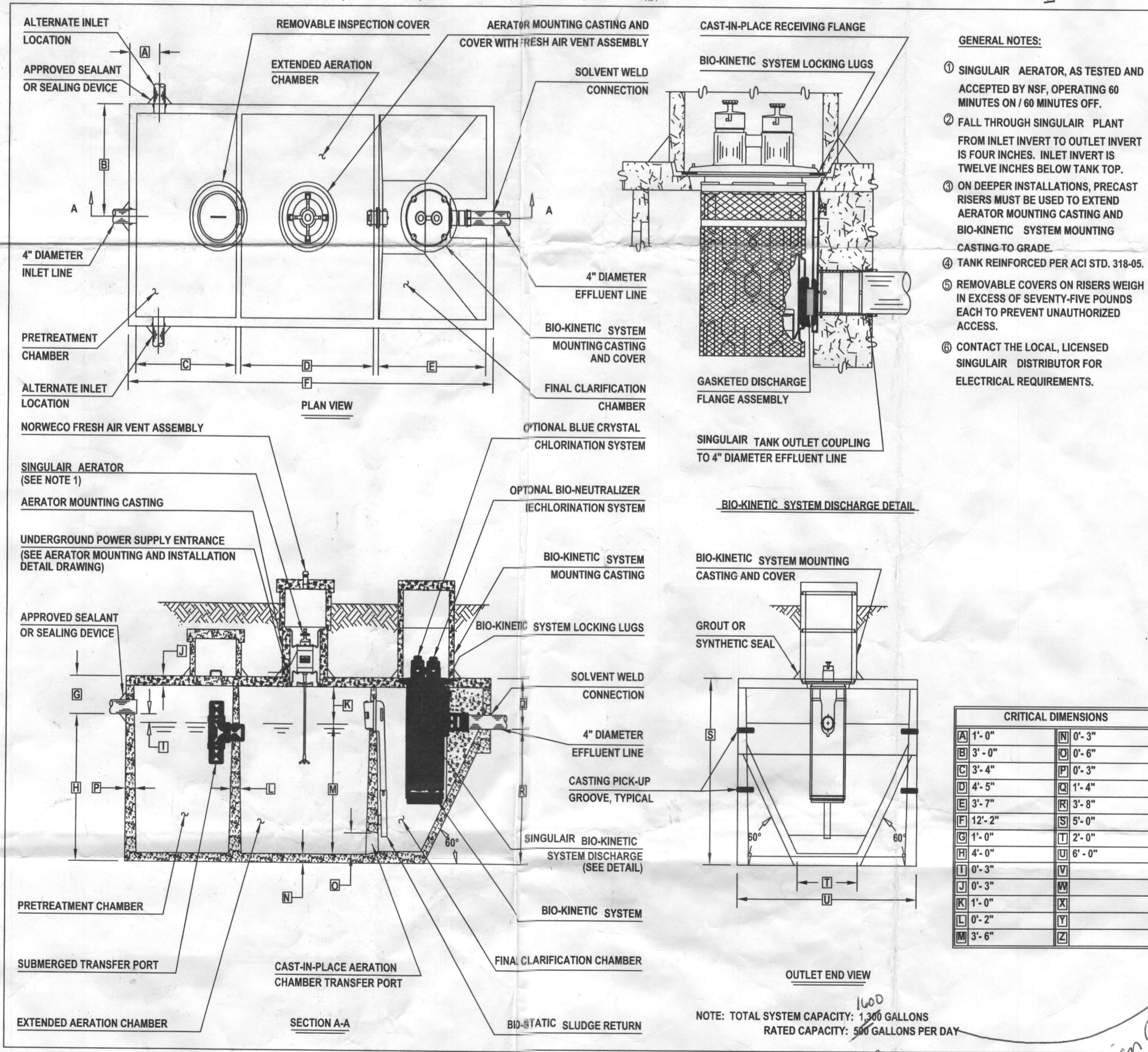
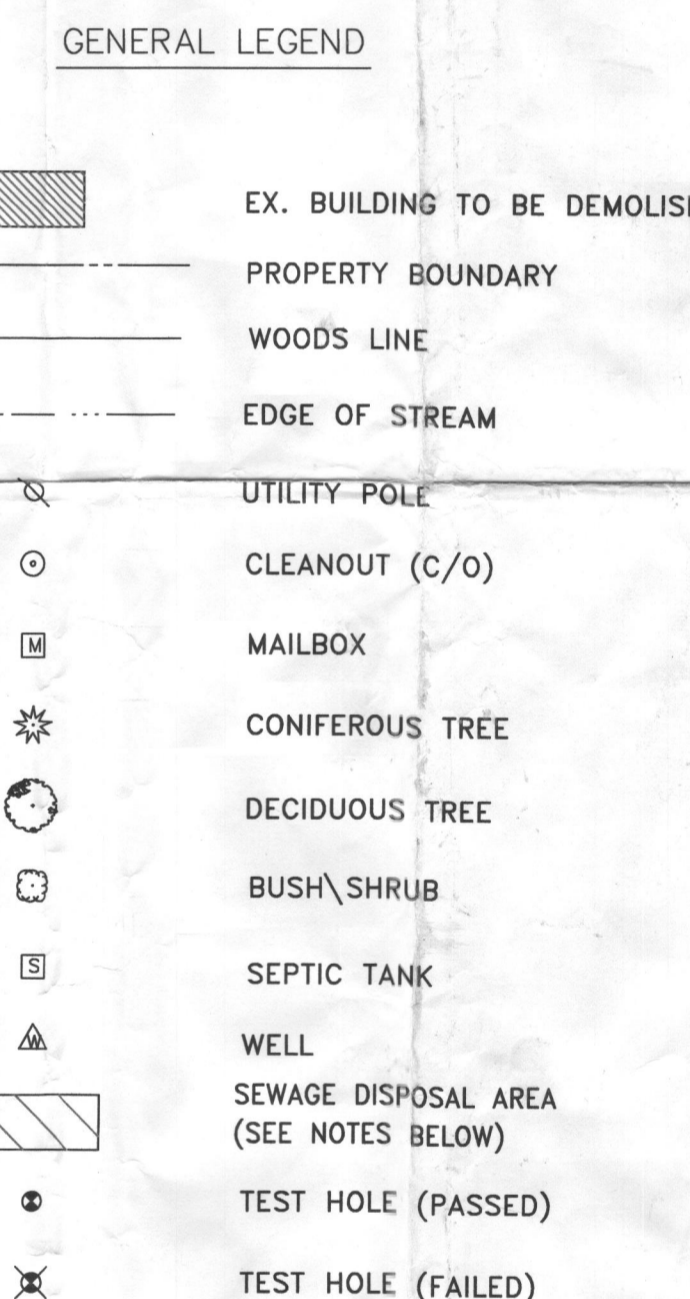


ENDESCO, INC.
 ENGINEERS, DESIGNERS & CONSULTANTS
 438 NORTH FREDERICK AVENUE
 SUITE 455
 GAITHERSBURG, MD 20877

TITLE
SITE PLAN FOR BAT INSTALLATION

SOONG RESIDENCE
 13212 CLARKSVILLE PIKE
 HIGHLAND, MD 20777-9703

- STANDARD NOTES**
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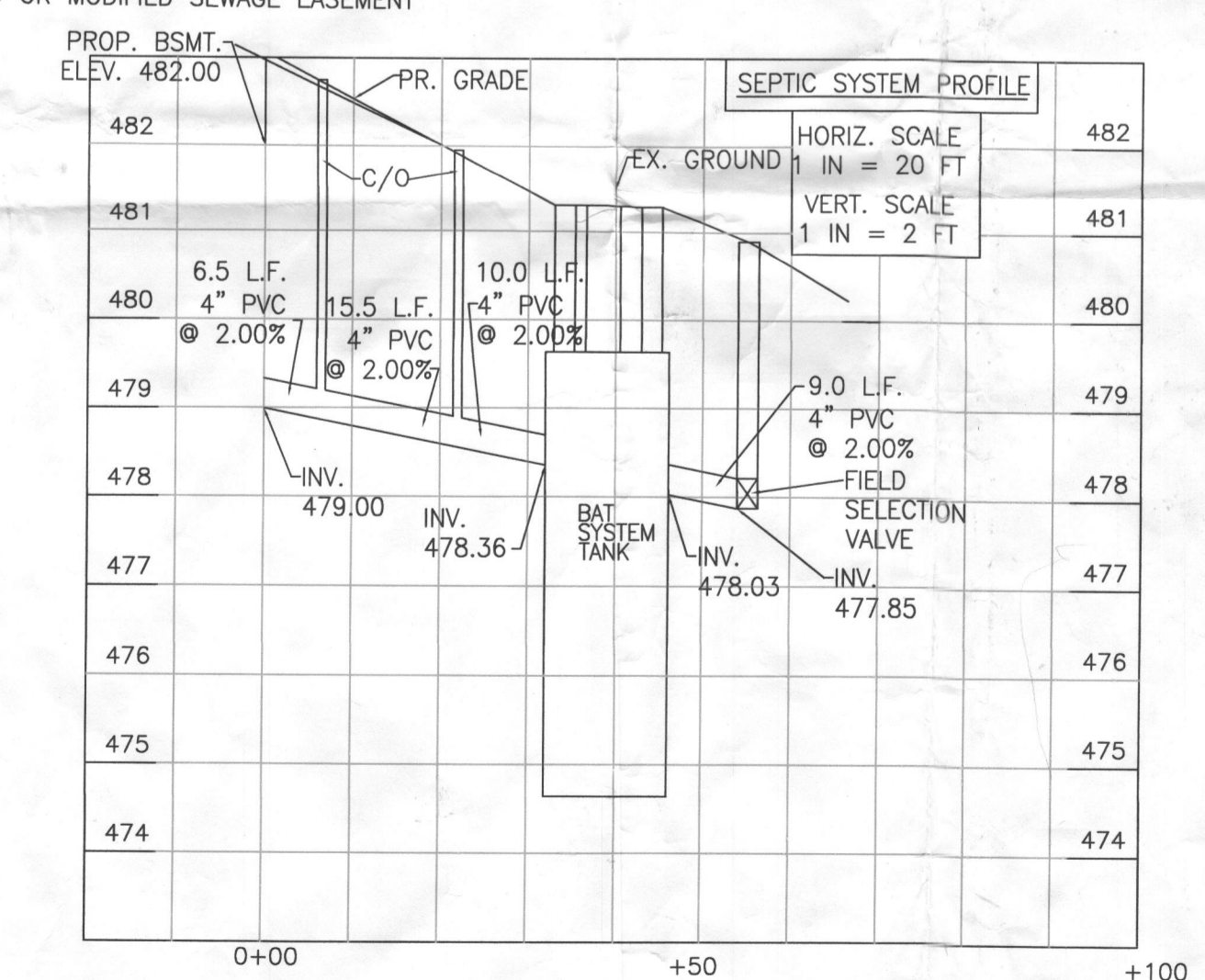


- GENERAL NOTES:**
1. SINGULAR AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 60 MINUTES ON / 60 MINUTES OFF.
 2. FALL THROUGH SINGULAR PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
 3. ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO 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.

Septic System Design Data (5 bedrooms)

The proposed house located at 13212 Clarksville Pike, Highland, MD 20777 is 4200 sq ft with four bedrooms and one study room which is considered as a bedroom because it has direct access to a full bathroom. Proposed invert of the 4" sewer line at the wall existing the house is 479.00.

Item	Proposed grade	Ex. grade	Invert
1. Septic Tanked			
The house will require a 2,000 gallon septic tank:			
Ex. grade over tank:	481.30		
Prop. grade over tank:	481.30		
Invert in:	478.36		
Invert out:	478.03		
2. Distribution Box - Initial Absorption System			
A. Ex. grade:	480.70		
Proposed grade:	480.70		
Invert:	477.80		
B. Replacement Absorption System I			
Ex. grade:	479.50		
Proposed grade:	479.70		
Invert:	476.80		
C. Replacement Absorption System II			
Ex. grade:	478.50		
Proposed grade:	478.70		
Invert:	475.80		
3. Trench Design			
The results of the percolation testing found that the soils in the proposed on-site sewage disposal area absorbed water at the approximate average of 8 minutes/inch. A system with 3 foot wide trenches with an effective depth of 48 inches is being proposed.			
Design flow = 150 gallons X 5 bedrooms = 750 gallons per day			
Square feet of trench required = 750 gal ÷ 0.8 (application rate) = 937.5 square feet			
Length of trench (width adjustment) = 937.5 ÷ 3 foot wide trench = 312.5 feet			
Length of the trench (depth adjustment) = 312.5 X 0.42 (%from table) = 131.25 feet			
Use two(2) 66 foot trenches @ spacing of 9 feet.			
4. Trench Data			
A. Initial Absorption System			
Trench 1:			
Ex. grade above	480.70	481.30	
Proposed grade	above	480.75	
Slope of 4" perf. pipe & trench bottom	477.75	477.58	
4" perf. pipe invert	477.75	477.58	
Trench bottom elevation	473.75	473.58	
Trench 2:			
Ex. grade above	480.10	480.80	
Proposed grade	above	480.25	
Slope of 4" perf. pipe & trench bottom	476.75	476.58	
4" perf. pipe invert	477.25	477.08	
Trench bottom elevation	473.25	473.08	
B. Replacement Absorption System I			
Trench 3:			
Ex. grade above	479.70	480.20	
Proposed grade	above	479.75	
Slope of 4" perf. pipe & trench bottom	476.75	476.58	
4" perf. pipe invert	476.75	476.58	
Trench bottom elevation	472.75	472.58	
Trench 4:			
Ex. grade above	479.50	479.80	
Proposed grade	above	479.25	
Slope of 4" perf. pipe & trench bottom	476.25	476.08	
4" perf. pipe invert	476.25	476.08	
Trench bottom elevation	472.25	472.08	
C. Replacement Absorption System II			
Trench 5:			
Ex. grade above	478.80	479.30	
Proposed grade	above	478.75	
Slope of 4" perf. pipe & trench bottom	475.75	475.58	
4" perf. pipe invert	475.75	475.58	
Trench bottom elevation	471.75	471.58	
Trench 6:			
Ex. grade above	478.10	478.80	
Proposed grade	above	478.25	
Slope of 4" perf. pipe & trench bottom	475.25	475.08	
4" perf. pipe invert	475.25	475.08	
Trench bottom elevation	471.25	471.08	



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BAT SYSTEM DETAIL
 NOT TO SCALE

"APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS"
 HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE

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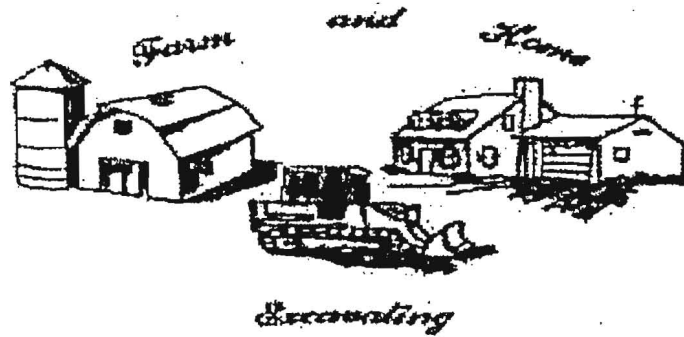


5-20-2014
 DATE

NOTE: SEE SHEET 2 FOR OPERATION AND MAINTENANCE AGREEMENT

DATE	FILE NO	REVISIONS	
		NO.	DESCRIPTION
MAR 2014 <td rowspan="4">1 of 2 <td>1.</td> <td></td> </td>	1 of 2 <td>1.</td> <td></td>	1.	
		2.	
		3.	
		4.	

SCALE: 1" = 30'



Fax Cover Sheet

5/13/14
 Date: 3/27/14 Time: _____

Name: Andrew Grisort

Firm: Howard Co. Health

Fax: 4-313-2648 Phone: _____

From: Bill Ingram

Number Of Pages Including Cover Page: 2

Comments: Pump out invoice for 13212 Clarksville Pike
 Michael Soory Demo permit
 Pumped & collapsed septic tank & drywell

If You Have Any Questions Or Problems, Please Call Bill Ingram At 410-442-2139 Phone Fax Number 410-442-3280

901 Driver Road Marriottsville Md 21104

Farm and Home Excavating



6084

901 Driver Road
 Marriottsville, MD 21104
 (410) 442-2139
 Fax (410) 442-3280

CUSTOMER'S ORDER NO.		PHONE			DATE 3/27/14		
NAME Michael Song							
ADDRESS 1525 Junction Ct. Laurel, MD 20723 13212 Clarksville Pike							
SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	PAID OUT	
QTY.	DESCRIPTION					PRICE	AMOUNT
	Loader						
	Backhoe						
	Bobcat						
	Dozer						
	Excavator						
	Dump Truck						
	Tons Stone						
	Tons Gravel						
	Yards Concrete						
	Labor						
	Pumping tank & dry well						750 00
	Roll-Off Container						
	Container Overweight						
	Materials						
	Pumped & collapsed 1000 gal. Septic Tank						950 00
	Pumped & collapsed one Dry well						
	Delivery Charge Fill with dirt						
RECEIVED BY						TAX	
						TOTAL	1700 00

Invoices not paid within 30 days are subject to a monthly finance charge of 2.00%.

Thank You



Office of the Health Officer
8930 Stanford Blvd., Columbia, MD 21045
Main: 410-313-6300 | Fax: 410-313-6303
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

DATE: March 5, 2014

TO: Mr. Kevin Soong
Via-e-mail: msoong@comcast.net

RE: **Building Permit # B14000175**
13212 Clarksville Pike
Highland, Maryland 20777-9703

Mr. Soong,

Further review is contingent upon submission of a revised Percolation Certification Plan and BAT plan showing the following: **(Note: Your BAT plan and Percolation Certification Plan must be prepared as separate documents.)**

BAT Plan must show the following:

- Illustrate the location of the initial absorption system and a replacement (s) with perforated pipe elevations. The absorption system should show the exact amount of trench in equal lengths to accommodate the number of bedrooms.
- Show pump station details including: pump curve, total dynamic head calculations, and pump on, off, and alarm elevations.
- Show location of blower on plan.
- In addition to the revised BAT plan, we will need **floor plans for the proposed house**, and an **Operation and Maintenance Agreement** for this property.
- BAT plan must have a title box.

Percolation Certification Plan must show the following:

- Percolation testing holes must be field located with elevations and labeled correctly.
- Standard general notes for percolation certification plan must be shown on plan.
- Percolation Certification Plan must show title box.

Please note your building permit will not be released until the existing septic is abandoned and the existing house is demolished. Your building permit will be placed "on hold" until all Health Department requirements are met. If you have any questions or correspondence, I can be reached at the above address or by telephone at (410) 313-2775.

Respectfully,

A handwritten signature in cursive script that reads "Dana Bernard".

Dana Bernard, REHS/RS
Environmental Specialist II
Bureau of Environmental Health
Well and Septic Program
Phone (410) 313-2775
E-mail: DBernard@howardcountymd.gov

cc: Well & Septic program file
Kevin Huang/Engineer
Via-e-mail: Rui_Xu@cable.comcast.com