

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: 7-1-15 **ONSITE SEWAGE DISPOSAL SYSTEM** P SSA-508-A
 APPROVAL DATE: 10-15-15 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 14719 Lear Court
 SUBDIVISION: Warfields II LOT: 35 TAX ID: _____
 CONTRACTOR: South Carroll Backhoe EMAIL: scbackhoe@comcast.net
 CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-596-3618

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: MDE MANUFACTURER:

PROPERTY OWNER: NVR Inc. EMAIL: _____
 OWNER ADDRESS: 9720 Patuxent Woods Drive PHONE: 410-379-5956

BAT UNIT MODEL: HOOT 600 BNR PUMP SIZE: EP0511 PUMP TANK CAPACITY: 750GAL

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: _____ DATE RECORDED: _____

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

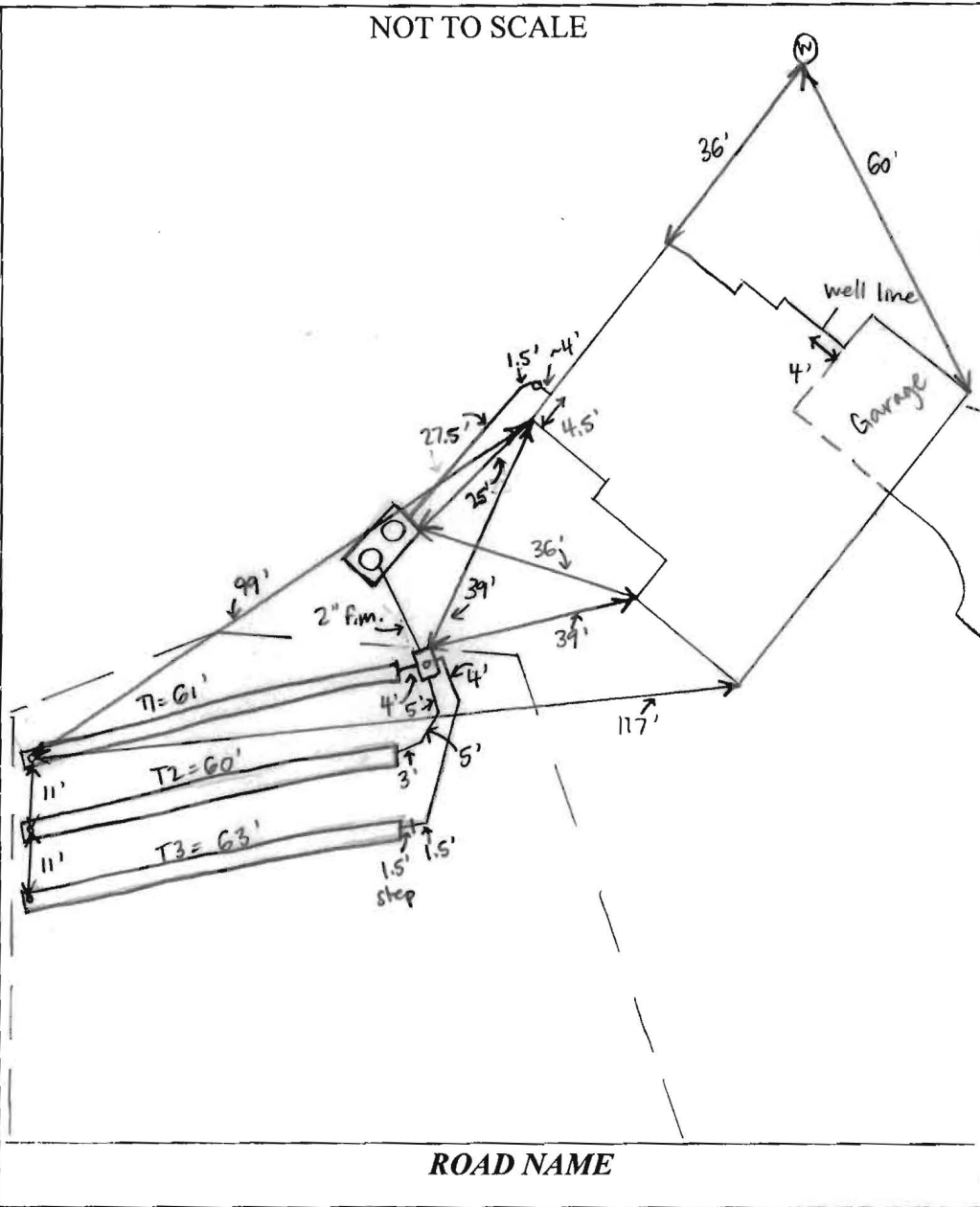
TRENCHES:	LINEAR FEET REQUIRED: <u>129.5 180'</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3'2'</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10'9'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>6</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION. 90 tons stone	
NOTES:	Use 2-64-6 long trenches. <u>3 x 60'</u>	

ISSUED BY: Hank Oswald ISSUE DATE: 7-1-15 EXPIRATION DATE: 7-1-16

- 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 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
 ELECTRICAL PERMIT ISSUED E 15003251
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.
 CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2'	4'	8'
NUMBER OF TRENCHES 3'		
TOTAL LENGTH 184'		
ABSORPTION AREA 368' + SIDEWALL		
DISTRIBUTION BOX LEVEL YES		
DISTRIBUTION BOX BAFFLE NO		
DISTRIBUTION BOX PORT YES		

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	MAYER BROS. / Hoot
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	2.5-3'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	—
PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	—
CAPACITY	— GAL
SEAM LOC	—
TANK LID DEPTH	—
BAFFLES	—
BAFFLE FILTER	—
MANHOLE LOC	—
6" PORT LOC	—
WATERTIGHT TEST	—
SLOTTED	—
DATE ON LID	—

PRE-CONSTRUCTION:

8/25/15 Met Dominic from South Carroll on site for layout. Tank stake and all SDA stakes present. Laid out 3x60' trenches on contour at the upper portion of the SDA. Sewer line comes out under footer as shown on the BAT plan. (SC)

INSTALLATION:

8/28/15 Tank installed pipe laid from house to tank. Need house connection. No baffle at tank inlet yet. (SC) 9/4/15 Baffle installed at tank inlet. T2 and T3 finished. T2 open and T3 open at ends. 3.5' to stone, starting to dig T1 and using transit. (SC) 9/4/15 T1 dug, adding stone + pipe. 8' to bottom, 4' inlet measured. All three trenches have a drop in the pipe as it enters the trench. 2" force main runs from tank to D-box. Need BAT startup certification and house connection. (SC) 9/25/15 House connection made. (SC) 10/1/15 Met Mike Sample for Hoot startup. Alarm probe is above inlet to pump chamber - insufficient storage. Startup not approved. (SC)

FINAL INSPECTOR

R. Wiley

DATE OF APPROVAL

10/15/15



MAYER BROS., INC.

Precast Concrete Products

6264 Race Rd. Elkridge, MD 21075

Letter of Satisfaction Hoot System Installation

Address of Property: 14719 Lear Ct.
Glencly, MD 21737

Date of Final Inspection: 10/13/15

Installer: South Carroll Backhoe Service

Hoot Technician/Inspector: Mike Sample

I hereby certify that the Hoot system installed at the property listed above has been installed according to proper Hoot installation practices. I have also verified the startup of the system and it is in proper working order.

Sincerely,

W. Michael Daryl

Name of Inspector
Mayer Bros., Inc.

PH: 410-796-1434

FX: 410-796-1438

WBE

NPCA Certified Plant

mayerbro@connext.net

www.mayerbrosprecast.com

Grease Interceptors, Grease Solutions, Aerobic Treatment Units, Septic Tanks, Holding Tanks, Storm Water Structures, Hydroceptors,
Bench Barrier, Water Meter Vaults, Sectional Valve Vaults, Top Slabs, Curb Heads, Curb Bumpers, PermEntry Basement Entries,
Scapewel Window Wells, Custom Precast Products



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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 Bhavin Patel ("the Owner").

WHEREAS, the Owner owns a tract of land at street address 14719 Lear Ct., Greenleaf Md and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 27, Block # , Parcel # 114, Deed Reference # liber 1661 and Tax Account # 452058 ("the Property").
April 4/96

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 #095 ¹⁵⁴⁷ that has been tested by the Health Department (or a private laboratory certified to perform testing) for Nitrate-nitrogen. The results of the tests have shown that the Nitrate level meets or exceeds the Maximum Contaminant Level (MCL) of 10 milligrams per liter.

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 MCL for Nitrate.

WHEREAS, MDE has determined that Nitrate can be effectively removed from the drinking water by the use of treatment devices (e.g. 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 Nitrate.

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:

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 Nitrate below the 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 Nitrate 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.

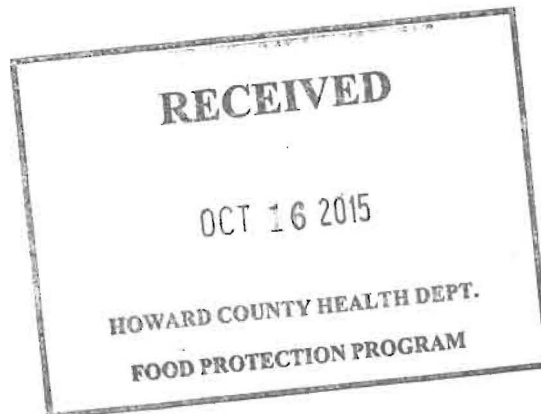
The parties have signed and sealed this Agreement on the dates set forth below.

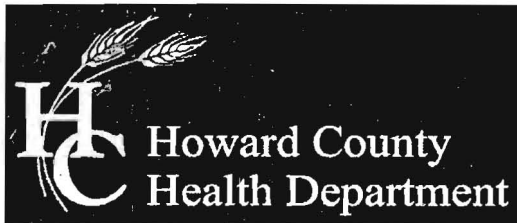
Shari [Signature] 10-16-15 Matt [Signature] 10/15/15
Owner Date Witness Date

Owner Date Witness Date
Beet [Signature] 10/16/15
Howard County Health Department Date

Dana

I didn't
send a note
about possible
septic upgrade
should a BR
Full Bath w/c
added in
basement
- 16





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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-95-1547 that has been tested by the Health Department (or a private laboratory certified to perform testing) for Nitrate-nitrogen. The results of the tests have shown that the Nitrate level meets or exceeds the Maximum Contaminant Level (MCL) of 10 milligrams per liter.

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.

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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.

<u>Erwin Pohl</u>	<u>10-16-15</u>	<u>Matt Aron</u>	<u>10/16/15</u>
Owner	Date	Witness	Date
<u>[Signature]</u>	<u>10-16-15</u>	_____	_____
Owner	Date	Witness	Date
<u>Bev Nijon</u>	<u>10/16/15</u>		
Howard County Health Department	Date		

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 - Recording Fee (No Taxes)
1x 20.00 20.00

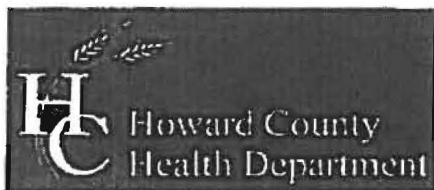
Grantor/Grantee Name: Patel
Reference/Control #: 139

LR - Surcharge
1x 40.00 40.00

=====
SubTotal: 60.00
Total: 60.00

=====
CRD-Credit 60.00
Credit Card Confirmation : 02727B

10/16/2015 14:54 CC13-DS
#5015752 / 1246/109
Thank you for visiting us today~



Bureau of Environmental Health

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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 18 day of March, among NVR, Inc., 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 14719 Leav Ct, Glenelg, MD 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 15635 Folio 242.

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 HOOT 600 GPD BNR.

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

JW 3/8/2014

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 J. Davis 3/6/15
Howard County Health Department

[Signature] 3/31/15
Owner #1 Signature ^{V.P.} Date
Timothy Naughton, ^{NVRINC.}

Owner #1 Print Name

[Signature] 3/28/15
Buyer #1 Signature Date
Bhavin Patel

Buyer #1 Print Name

[Signature] 3/31/15
Owner #2 Signature Date

Owner #2 Print Name

[Signature] 3-28-15
Buyer #2 Signature Date
Kinjal Patel

Buyer #2 Print Name

JW R 8/2014

Print Date: 3/28/2015

LR - Recording Fee (No Taxes) 20.00
Grantor/Grantee Name: NVR
Reference/Control #: 176
LR - Surcharge 40.00
SubTotal: 60.00
Total: 190.00
05/06/2015 11:18 CC13-05
#A206145 CC0503 -
Howard Co
Columbia/CC05.03.07 -
Register 07

Lot 35

14719 Lear Court

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 - Recording Fee (No Taxes)
1x 20.00 20.00

Grantor/Grantee Name: NVR
Reference/Control #: 174

LR - Surcharge
1x 40.00 40.00

LR - Recording Fee (No Taxes)
1x 20.00 20.00

Grantor/Grantee Name: NVR
Reference/Control #: 175

LR - Surcharge
1x 40.00 40.00

LR - Recording Fee (No Taxes)
1x 20.00 20.00

Grantor/Grantee Name: NVR
Reference/Control #: 176

LR - Surcharge
1x 40.00 40.00

=====
SubTotal: 180.00

Total: 180.00
=====

REV-Check-BOA 180.00
Number : 4323

05/06/2015 11:17 CC13-DS

#4206145 /1246/109

***** DUPLICATE #001 *****

05/06/2015 11:19 CC13-DS

Thank you for visiting us today

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.

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Michael J. Davis 3/16/15
Howard County Health Department

[Signature] 3/31/15
Owner #1 Signature ^{V.P.} Date
Timothy Naughton, ^{NVRWE.}

Owner #1 Print Name

[Signature] 3/31/15
Owner #2 Signature Date

Owner #2 Print Name

[Signature] 3/28/15
Buyer #1 Signature Date
Bhavin Patel

Buyer #1 Print Name

[Signature] 3-28-15
Buyer #2 Signature Date
Kinjal Patel

Buyer #2 Print Name

GENERAL NOTES:

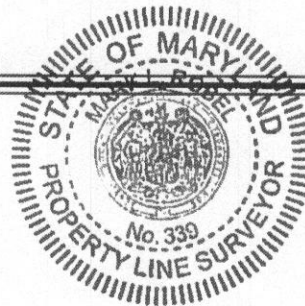
- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS LOCATION DRAWING IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS LOCATION DRAWING DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING FOR RE-FINANCING.
 - 2) SUBJECT PROPERTY IS SHOWN IN ZONE C ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 2400440020-B EFFECTIVE DEC. 4, 1986.
 - 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 1'(*).
 - 4) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
 - 5) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-1547 HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
 - 6) PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 339, EXPIRATION DATE 10/04/2016.
- 1) BUILDING PERMIT #B-15001552



#14719 LEAR COURT
 B.R.L.= BUILDING RESTRICTION LINE
 TOP OF FOUNDATION ELEV.= 512.1'

LOT 35
 THE WARFIELDS II
 SECTION TWO
 LOTS 6 THRU 68
 CEMETERY OPEN SPACE LOT 69
 AND BUILDABLE PRESERVATION
 PARCEL "A" & NON-BUILDABLE
 PRESERVATION PARCEL "B" THRU "I"
 FIFTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 PLAT #20247-20254

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461 - 2855

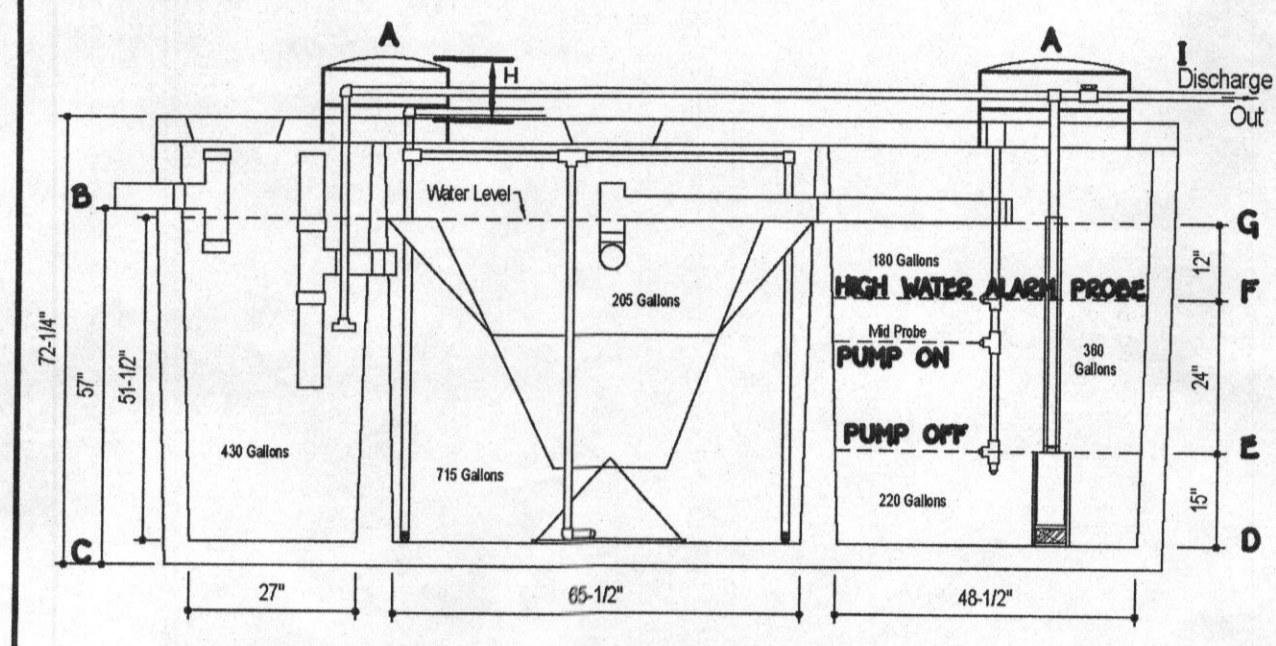
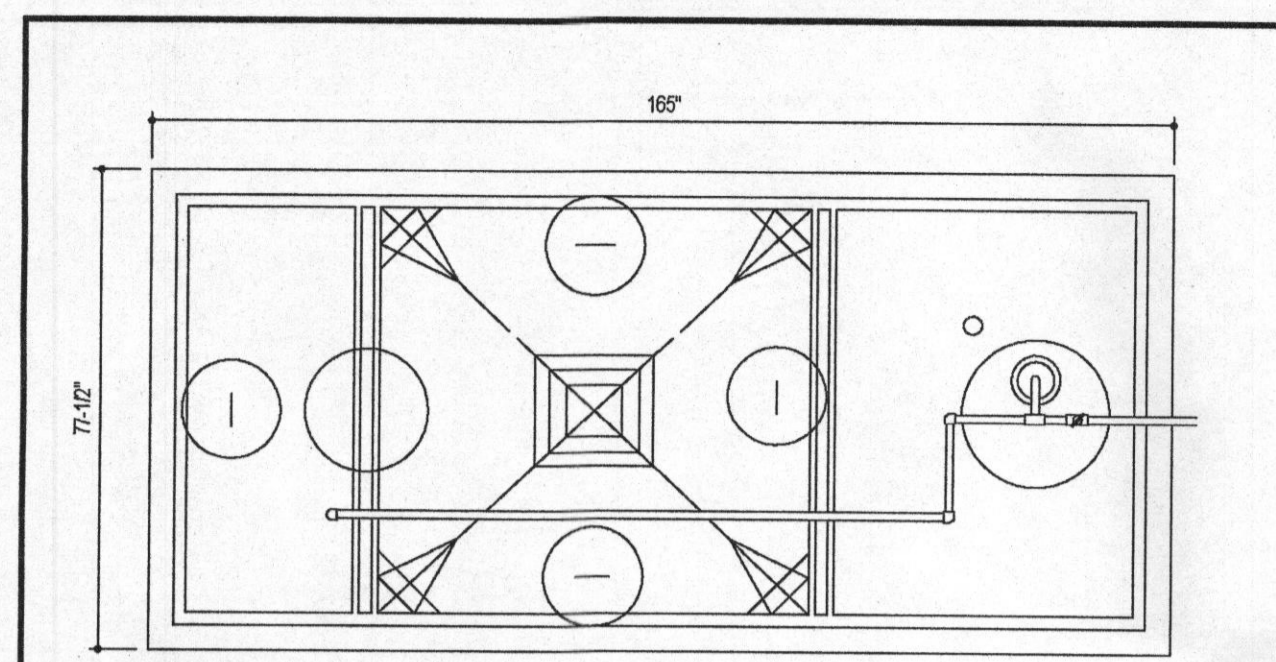


Mark J. Nobel
 PROPERTY LINE SURVEYOR
 REG. #339
 DATE: 6/23/15

HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 6/18/15
 FINAL LOCATION: _____
 BOUNDARY SURVEY: _____

SCALE: 1"=50'
 DATE: 6/23/15
 DRAWN BY: GAD
 CHECKED BY: MLR
 PROJECT No.: 05100-6001



DESIGN DATA & GENERAL NOTES

- Concrete strength F_c = 4000 p.s.i. @ 28 days. Density = 150 pcf.
- Reinforcing steel per ASTM C 408.
- Reinforcing per ASTM A 618, Min. 1/4" cover.

Mayer Brothers, Inc.
 6204 Race Road
 Beltsville, Maryland 21075
 Tel: 410.796.1434
 Fax: 410.796.1438
 www.mayerbrothers.com

600 GPD BNR SYSTEM H-600 BNR
 with 750 GALLON PUMP CHAMBER

Dwg. No. Hoot Form #1 No Scale March 18, 2009

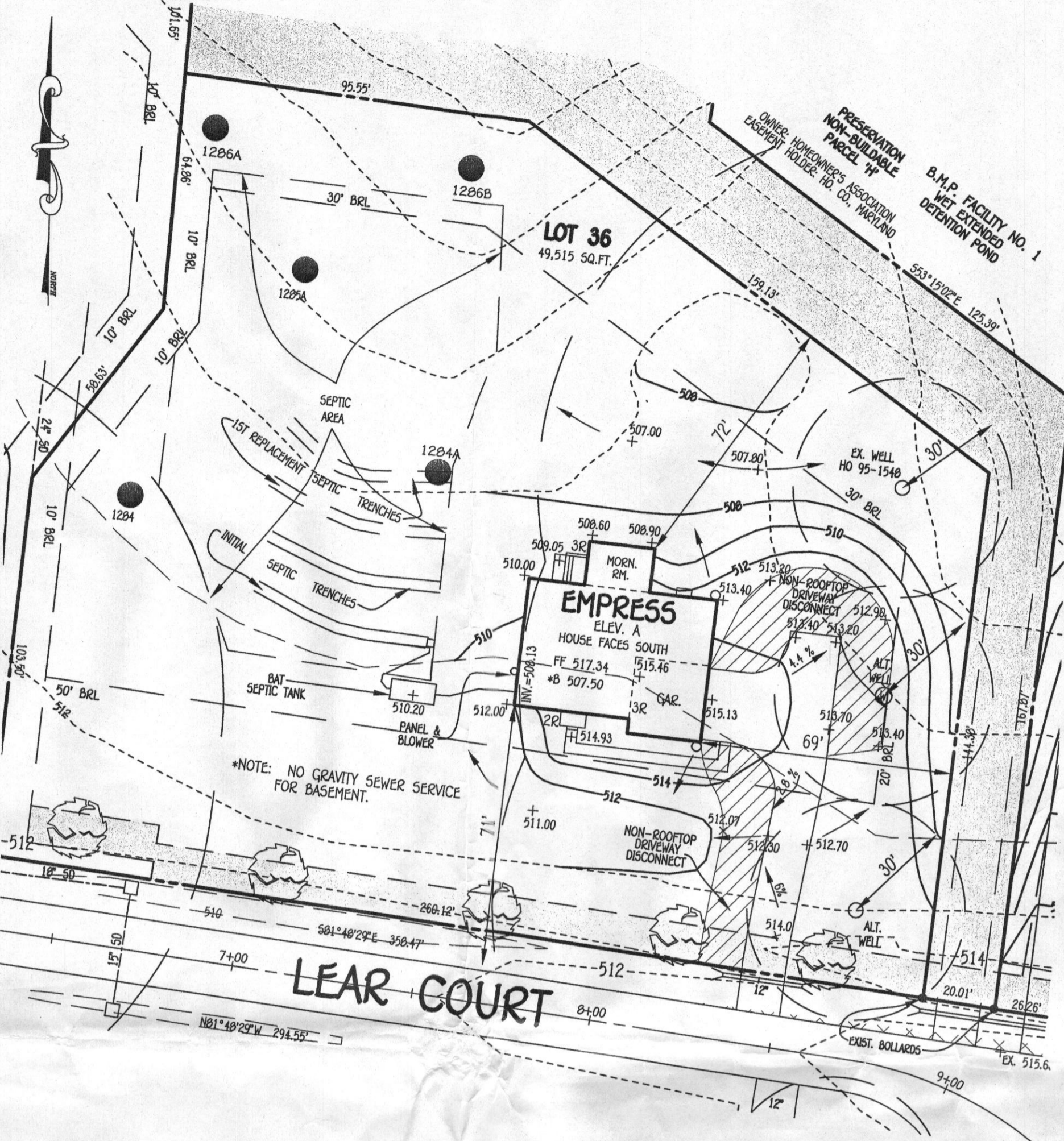
SEPTIC SYSTEM ELEVATIONS

A = 510.20
 B = 507.66 (INV. INTO TANK)
 C = 502.91
 D = 503.24
 E = 504.49
 F = 506.49
 G = 507.49
 H = 1.27' (7" MIN.)
 I = 509.15 (INV. OUT OF TANK)

FFE = 517.34
 BSE = 507.50
 INV. OUT OF HOUSE = 508.13
 INV. INTO DISTRIBUTION BOX = 506.70
 TOP OF TANK = 508.93
 DOSE VOLUME = 50 GAL
 TIME PER DOSE = 2 MIN

NOTE:
 THE PROPOSED HOUSE IS TO HAVE 4 BEDROOMS, HOWEVER IT IS DESIGNED FOR 5 BEDROOMS.

- BAT NOTE:**
- ANY CHANGE TO THE CONDITIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REDUCED SITE PLAN (7) IS REQUIRED.
 - THE MAXIMUM COVER OVER THE BAT FOR THE MANUFACTURER'S SPECIFICATION IS 3 FEET. IF COVER EXCEEDS 3 FEET, THEN A TRENCH EXCAVATION SHALL BE REQUIRED.
 - THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON THE MANUFACTURER'S 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 HEALTH DEPARTMENT OF THE JURISDICTION IN A MANNER ACCEPTABLE TO HIM, 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 WAIVER HAS BEEN COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND ACCORDING TO THE LATEST RECORDS OF HOWARD COUNTY, LIBER 14700, FOLIO 067.
 - THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
 - SURFACE RUNOFF SHALL BE DIRECTED AROUND THE BAT TANK.
 - IF HIGH WATER ALARM PUMP WILL HAVE CONTINUOUS OPERATION UNTIL LEVEL COSES EXCEEDS PROBE.
 - IF WATER LEVEL RISES ABOVE THE ALARM PROBE, AN AUDIBLE AND VISUAL ALARM WILL SOUND. SEE MANUFACTURER SPECS FOR ADDITIONAL INFORMATION.
 - ALARM TO BE WIRED TO A CIRCUIT SEPARATE FROM THE PUMP CIRCUIT.



PLAN
 SCALE: 1" = 30'

SEWAGE DISPOSAL SYSTEM DATA (PERMIT 4 BEDROOMS, DESIGN 5 BEDROOMS)

PROP. INVERT AT FOUNDATION WALL: 483.90

1. HOOT 600 BNR (750 GAL. PUMP CHAMBER) (MAX. NO. BEDRMS.=5)
 EX. GRADE OVER TANK: 509.80
 PROP. GRADE OVER TANK: 510.20
 INVERT INTO TANK: 507.66 INVERT (DISCHARGE ELEV.) OUT TANK: 509.15

2. DISTRIBUTION BOX:
 EX. GRADE: 509.7
 PROP. GRADE OVER TANK: 510.20
 INVERT IN: 506.70

3. TRENCH DESIGN:
 (5 BDRM X 150 GPD/BDRM= 750 GPD)
 750 / 1.2 APP. RATE = 625 SF
 USE 3" WIDE TRENCH AND 10' MIN. SPACING BETWEEN TRENCH EDGES.
 625 SF / 3" WIDTH = 208.33 LF. X 0.42 = 87.5 LF. MIN. TRENCH
 USE 2- 50' LONG TRENCHES = 100 LF.

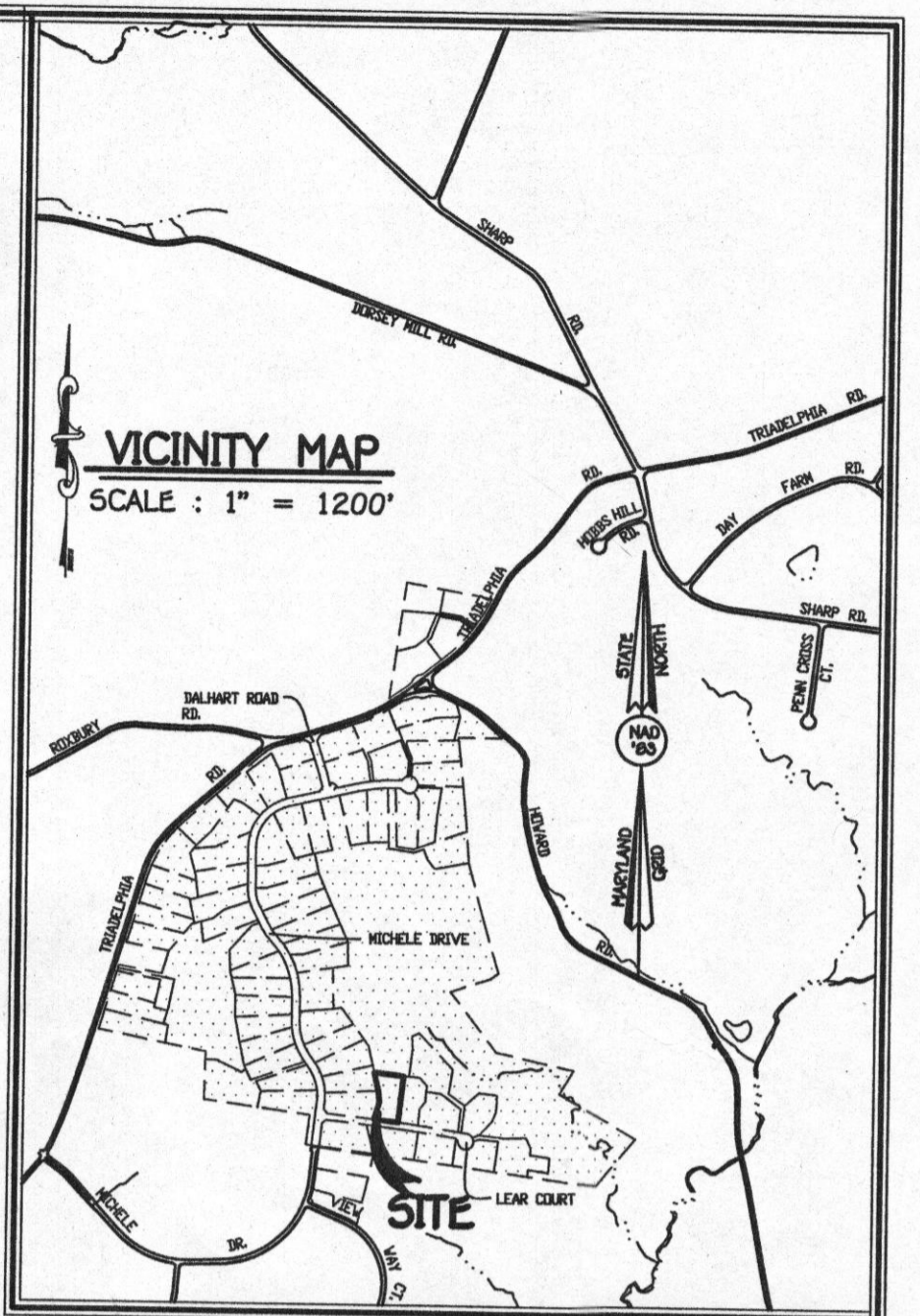
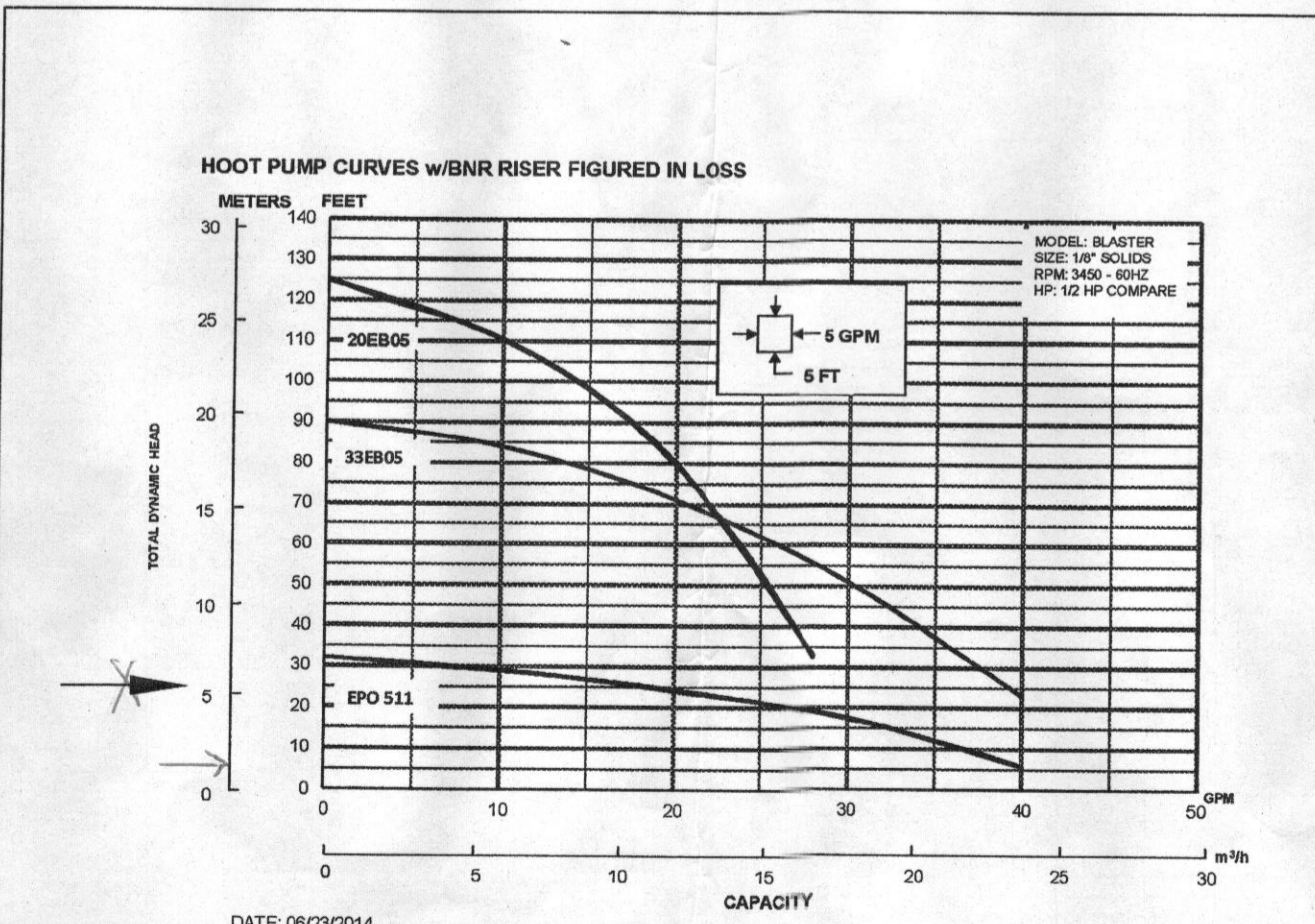
TRENCH DATA:

TRENCH 1:
 EX. GROUND ABOVE = 509.70
 INV. IN = 506.60
 BOTTOM TRENCH = 502.70

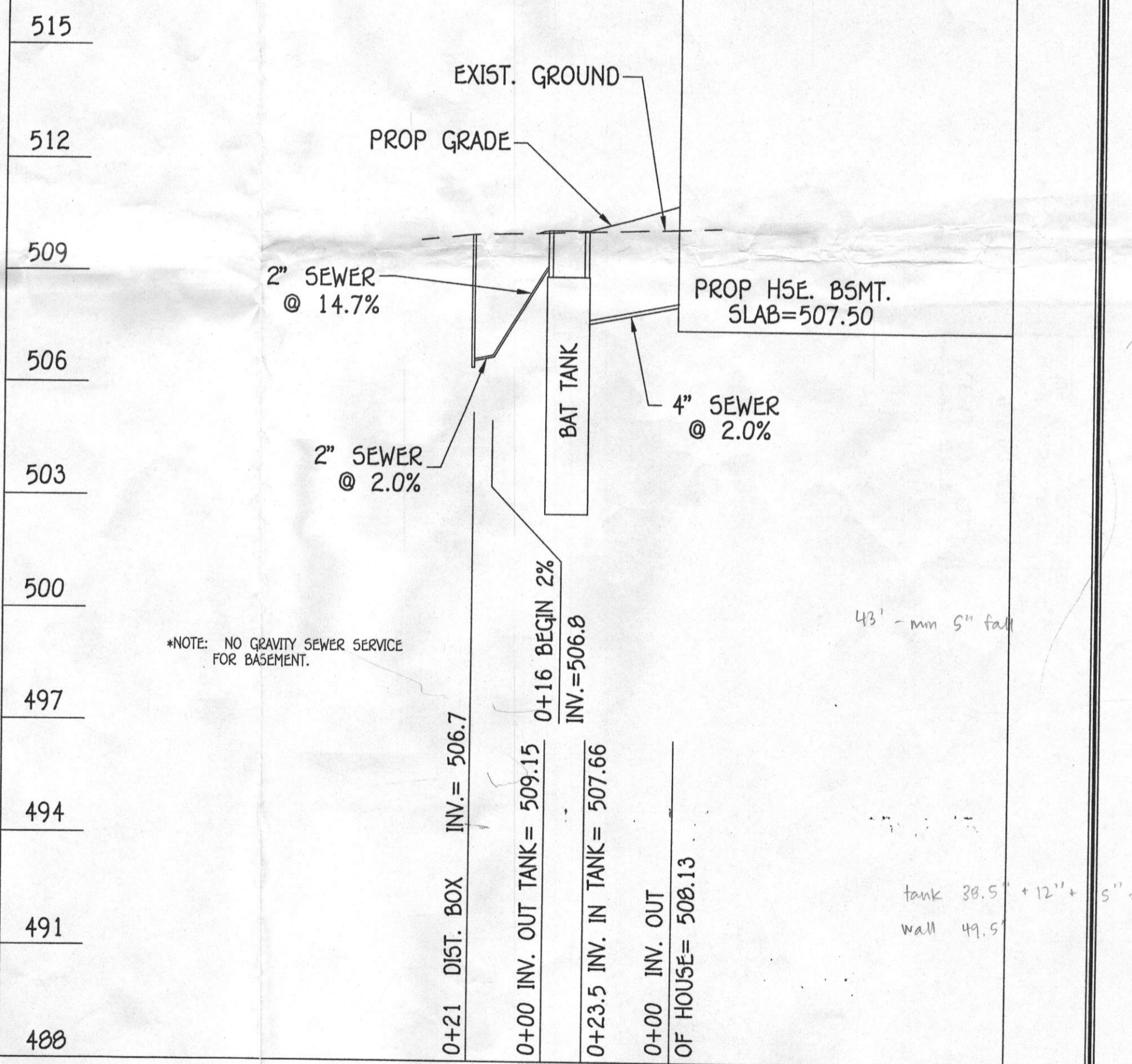
TRENCH 2:
 EX. GROUND ABOVE = 509.10
 INV. IN = 506.10
 BOTTOM TRENCH = 502.10

REPLACEMENT TRENCH 3:
 EX. GROUND ABOVE = 509.70
 INV. IN = 506.60
 BOTTOM TRENCH = 502.70

TRENCH 4:
 EX. GROUND ABOVE = 509.10
 INV. IN = 506.10
 BOTTOM TRENCH = 502.10



PROF.
 FF=517.34



*NOTE: NO GRAVITY SEWER SERVICE FOR BASEMENT.

SEPTIC SYSTEM PROFILE
 SCALE: HORIZ. 1" = 30'
 VERT. 1" = 3'

Approved Septic System Plan
 Howard County Health Department
 Mark Oswald 6/21/15
 Signature Date

SITE PLAN FOR BAT INSTALLATION THE WARFIELDS II

14715 LEAR COURT
 LOT 36
 SECTION TWO
 ZONED: RC-DEO

BUILDER/DEVELOPER
 NV HOMES
 9720 Patuxent Woods
 COLUMBIA, MARYLAND 21046
 410-379-5956

TAX MAP NO.: 27 GRID NO.: 5 PARCEL NO.: 114
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS NOTED DATE: MAY 26, 2015

ITT GOULDS PUMPS Wastewater

APPLICATIONS
 Specifically designed for the following uses:
 • Effluent systems
 • Homes
 • Farms
 • Heavy duty sump
 • Water transfer
 • Dewatering

SPECIFICATIONS
 • Solids handling capability: 1/2" maximum.
 • Capacities: up to 60 GPM.
 • Total heads: up to 31 feet.
 • Discharge size: 1 1/2" NPT.
 • Mechanical seal: carbon-rotary/ceramic-stationary, BUNA-N elastomers.
 • Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
 • Fasteners: 300 series stainless steel.
 • Capable of running dry without damage to components.

Motor:
 • EP04 Single phase: 0.4 HP, 115 or 230 V, 60 Hz, 1550 RPM, built in overload with automatic reset.
 • EP05 Single phase: 0.5 HP, 115 V or 230V, 60 Hz, 1550 RPM, built in overload with automatic reset.
 • Power cord: 10 foot standard length, 16/3 SJTW with three prong grounding plug. Optional 20 foot length, 16/3 SJTW with three prong grounding plug (standard on EP05).
 • Fully submerged in high grade turbine oil for lubrication and efficient heat transfer.

Available for automatic and manual operation. Automatic models include Mechanical Float Switch assembled and preset at the factory.

Total Head (ft. of water)	Gallons Per Minute (GPM)	EP04	EP05
5	53	-	-
10	46	62	-
15	36	55	-
20	21	46	-
25	0	33	-
30	-	11	-

COMPONENTS

Item No.	Description
1	Impeller
2	Shaft
3	Pump Casting
4	Mechanical Seal
5	Ball Bearings
6	Oil Ring
7	Power Cord
8	Oil Filled Motor
9	Motor Housing/Frame Assembly
10	Motor Cover

MODEL INFORMATION

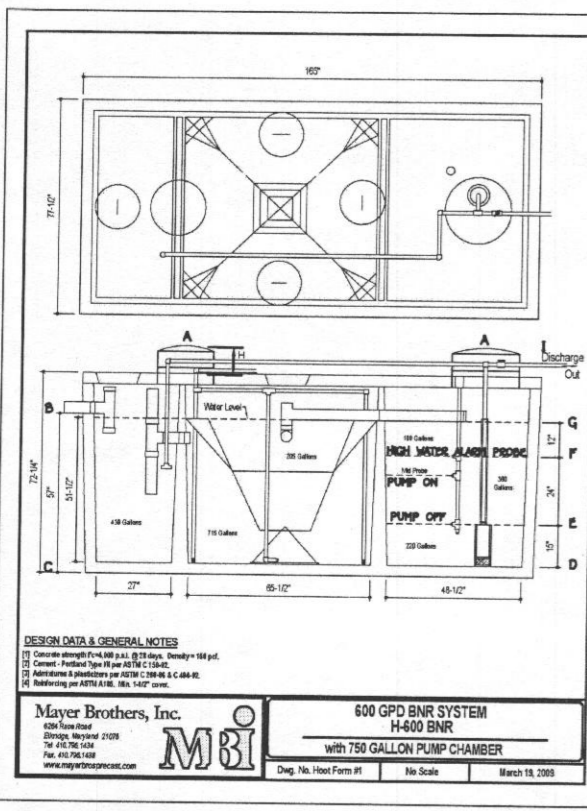
Order No.	HP	Volts	Amps	Minimum Circuit Breaker	Phase	Head Switch Style	Cord Length	Discharge Connection	Minimum On Level	Minimum Off Level	Minimum Basin Diameter	Maximum Solids Size	Shipping Weight	Shipping Size
EP0411						Plug / No Switch	10'	1 1/2"	Manual	Manual	15"		20/9.1	
EP0411A	115	12	20			Plugback / Wide-Angle	10'	1 1/2"	Manual	Manual	15"		21/9.5	
EP0411F	115	13	20			Plugback / Wide-Angle	20'	1 1/2"	Manual	Manual	15"		20/9.1	
EP0411AC	230	6	10			Plug / No Switch	10'	1 1/2"	Manual	Manual	15"		21/9.5	
EP0412	230	6	10			Plug / No Switch	10'	1 1/2"	Manual	Manual	15"		20/9.1	
EP0412F	230	6	10			Plugback / Wide-Angle	20'	1 1/2"	Manual	Manual	15"		22/10	
EP0511AC	115	13	20			Plugback / Wide-Angle	20'	1 1/2"	Manual	Manual	15"		23/10.4	
EP0512F	230	6.5	10			Plug / No Switch	20'	1 1/2"	Manual	Manual	15"		22/10	

WELL CERTIFICATION:
 THE EXISTING WELL, TAG NO. HO-95-1550, HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 122043, EXPIRATION DATE: 7/16/16.
 Paul W. Kriebel 05-26-15
 PAUL W. KRIEBEL DATE



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 12072 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2895



SEPTIC SYSTEM ELEVATIONS

A = 502.60
 B = 499.66 (INV. INTO TANK)
 C = 494.91
 D = 495.24
 E = 495.49
 F = 498.49
 G = 499.49
 H = 1.27 (7" MIN.)
 I = 501.15 (INV. OUT OF TANK)

FFE = 513.19
 BSE = 503.17
 INV. OUT OF HOUSE = 500.40
 INV. INTO DISTRIBUTION BOX = 499.70
 TOP OF TANK = 500.93
 DOSE VOLUME = 80 GAL.
 TIME PER DOSE = 2 MIN.
 DYNAMIC HEAD APPROX. 5 FT.

NOTE:
 THE PROPOSED HOUSE IS TO HAVE 5 BEDROOMS DESIGNED FOR 5.

- BAT NOTES**
- ANY CHANGE TO THE LOCATION OR DESIGN TO ANY COMPONENT MUST BE APPROVED BY THE ENGINEER AND THE HONORARY COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A DESIGN SET PLAN MAY BE REQUIRED.
 - THE PROGRAM COVER OVER THE BAT FOR THE MANUFACTURER'S SPECIFICATION IS 3 FEET. IF COVER EXCEEDS 3 FEET, THEN A TRAFFIC SIGNING TIME IS REQUIRED.
 - THE BATTERY MUST NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON THE MANUFACTURER'S 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.
 - WHEN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE HONORARY DEPARTMENT OF THE ENVIRONMENT (DOE) IN A WRITTEN ACCEPTABLE TO 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 ACCEPTANCE AND ENDORSEMENT HAS BEEN COMPLETED AND SIGNED BY ALL APPLICABLE AGENCIES AND RECORDED IN THE LAND RECORDS OF HONORARY COUNTY, LEAR, VIRGINIA, 10/10/16.
 - THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CHECKOUT FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
 - SURFACE RUNOFF SHALL BE DIRECTED AWAY FROM THE BAT TANK.
 - AT HIGH WATER ALARM PROBE, PUMP WILL HAVE CONTINUOUS OPERATION UNTIL LEVEL DROPS BELOW PROBE.
 - IF WATER LEVEL RISES ABOVE THE ALARM PROBE, AN ALARMS AND VISUAL ALARM WILL SOUND. SEE MANUFACTURER SPECS FOR ADDITIONAL INFORMATION.
 - ALARMS TO BE WIRED TO A CIRCUIT SEPARATE FROM THE PUMP CIRCUIT.

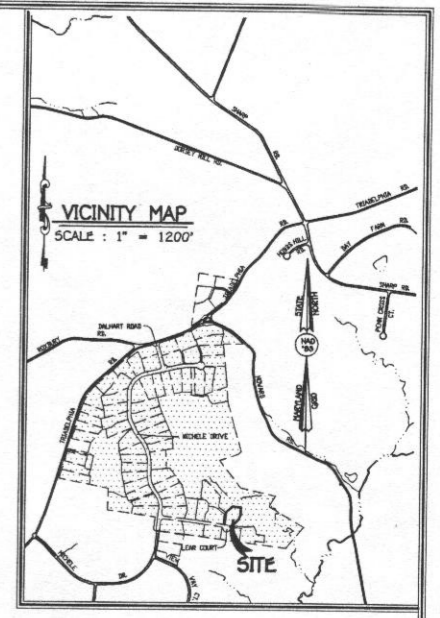
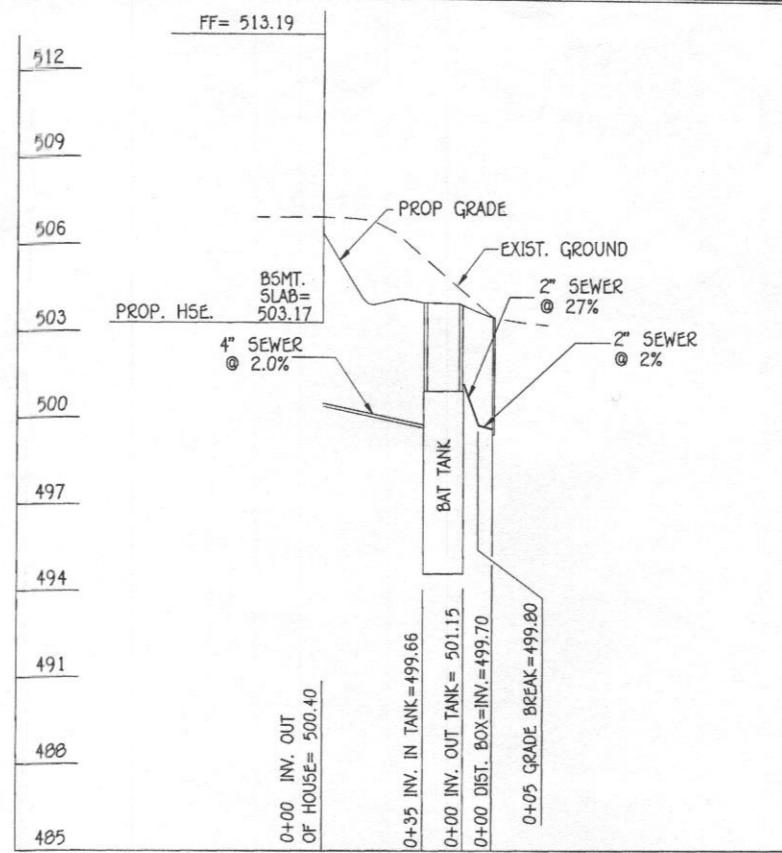
DESIGN DATA & GENERAL NOTES

1. Concrete strength F_c = 4,000 p.s.i. (28 days). Density = 150 p.c.f.
 2. Cement = Portland Type I or II ASTM C 150.
 3. Admixtures & plasticizers per ASTM C 494 & C 484-03.
 4. Reinforcing per ASTM A 618, 601, 603, 605.

Mayer Brothers, Inc.
 4380 Route 404
 Elwyn, Maryland 21030
 Tel. 410.762.1434
 Fax. 410.762.1439
 www.mayerbrothers.com

**600 GPD BNR SYSTEM
 H-600 BNR**
 WITH 750 GALLON PUMP CHAMBER

Diag. No. Hoot Form #1 No Scale March 18, 2009



SEWER DISPOSAL SYSTEM DATA: PART B - DESIGN FOR 5 BEDROOMS

PROP. INVERT AT FOUNDATION WALL: 500.40
 1. HOOT 500 BNR (750 GAL. PUMP CHAMBER) (MAX. NO. ROOMS=5)
 EX. GRADE OVER TANK: 504.50
 PROP. GRADE OVER TANK: 503.43
 INVERT INTO TANK: 499.66 INVERT (DISCHARGE ELEV.) OUT TANK: 501.15

2. DISTRIBUTION BOX:
 EX. GRADE: 503.50
 PROP. GRADE: 503.60
 INVERT IN: 499.70

3. TRENCH DESIGN:
 (5 ROOM X 150 GPD/ROOM = 750 GPD)
 750 / 1.2 APP. RATE = 625 SF
 USE 3' WIDE TRENCH AND 10' MIN. SPACING BETWEEN TRENCH EDGES.
 625 SF / 3' WIDTH = 208.3 L.F. X 0.82 = 129.15 L.F. MIN. TRENCH
 USE 2- 64.5' LONG TRENCHES = 129.2 L.F.

4. 1ST REPLACEMENT TRENCH DESIGN:
 (5 ROOM X 150 GPD/ROOM = 750 GPD)
 750 / 1.2 APP. RATE = 625 SF
 USE 3' WIDE TRENCH AND 10' MIN. SPACING BETWEEN TRENCH EDGES.
 625 SF / 3' WIDTH = 208.3 L.F. X 0.82 = 129.15 L.F. MIN. TRENCH
 USE 2- 64.5' LONG TRENCHES = 129.2 L.F.

ITT GOULDS PUMPS Wastewater

APPLICATIONS
 Specifically designed for the following uses:
 • Effluent systems
 • Farms
 • Heavy duty sump
 • Water transfer
 • Dewatering

SPECIFICATIONS
 • Solids handling capacity: 1/2" maximum.
 • Capacities: up to 60 GPM.
 • Total heads: up to 31 feet.
 • Discharge size: 1 1/2" NPT
 • Mechanical seal: carbon-rotary/ceramic-stationary.
 • Break-in elastomers.
 • Temperature:
 104° F (40° C) continuous
 140° F (60° C) intermittent.
 • Fasteners: 300 series stainless steel.
 • Capable of running dry without damage to components.

Motor:
 • EP04 Single phase: 0.4 HP 115 or 230 V, 60 Hz, 1550 RPM, built in overhauled with automatic reset.
 • EP05 Single phase: 0.5 HP 115 V or 230V, 60 Hz, 1550 RPM, built in overhauled with automatic reset.
 • Power cord: 10 foot standard length, 16/3 SJTW with three prong grounding plug. Optional 20 foot length, 16/3 SJTW with three prong grounding plug (concord on EP05).
 • Fully submerged in high grade turbine oil for lubrication and efficient heat transfer.
 • Available for automatic and manual operation.
 • Automatic models include Mechanical Float Switch assembled and preset at the factory.

PERFORMANCE RATINGS

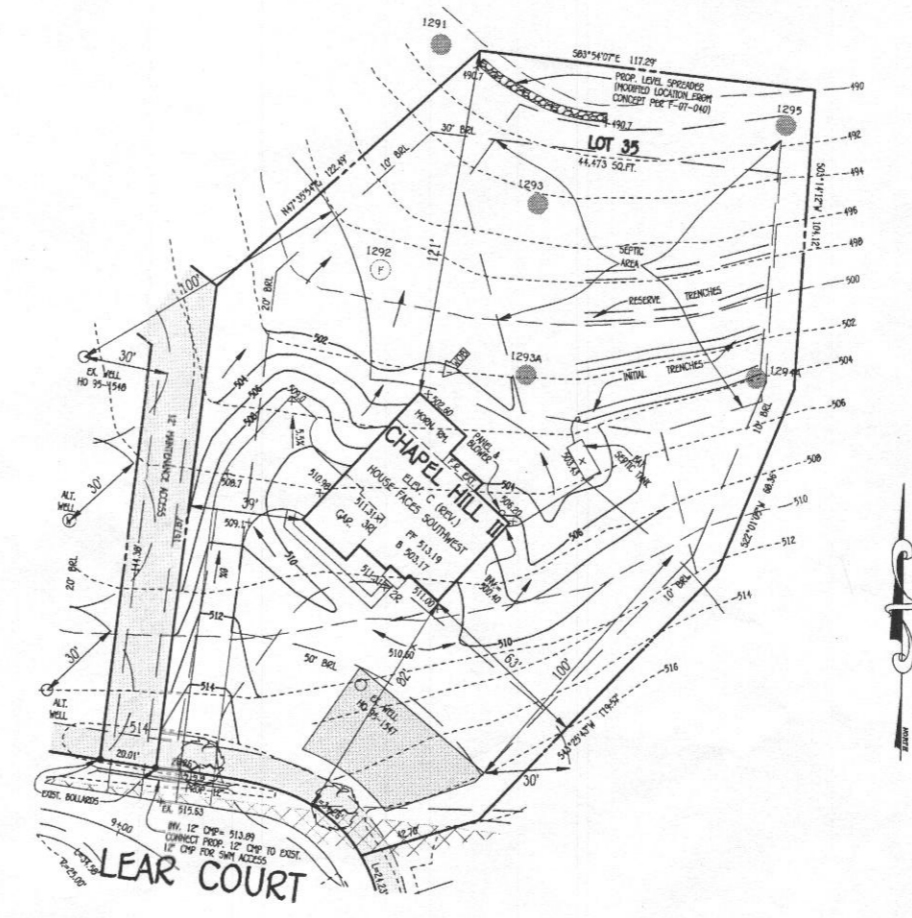
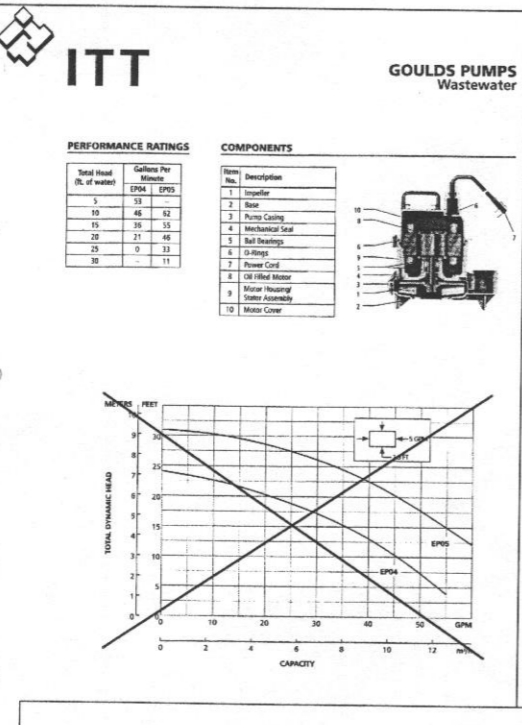
Total Head (ft. of water)	Gallons Per Minute	EP04	EP05
5	58	46	62
10	36	26	36
15	26	21	26
20	21	16	21
25	16	11	16
30	11	6	11

COMPONENTS

Item No.	Description
1	Inverter
2	Base
3	Pump Control
4	Mechanical Seal
5	Ball Bearings
6	Oil Rings
7	Power Cord
8	Oil Filled Motor
9	Motor Housing
10	Motor Cover

MODEL INFORMATION

Order No.	HP	Volts	Amperes	Minimum Circuit Breaker	Phase	Float Switch Style	Cord Length	Stroke/Connection	Minimum On Level	Minimum Off Level	Minimum Basin Diameter	Maximum Subm. Depth	Shipping Weight
EP0411	0.4	115	12	20	1	Plug / No Switch	10'	1 1/2"	Manual	Manual	12"	12"	20 / 9.1
EP0411A	0.4	115	12	20	1	Plug / No Switch	10'	1 1/2"	Manual	Manual	12"	12"	21 / 9.5
EP0411F	0.4	115	12	20	1	Plug / No Switch	20'	1 1/2"	Manual	Manual	12"	12"	20 / 9.1
EP0411AC	0.4	115	12	20	1	Plug / No Switch	20'	1 1/2"	Manual	Manual	12"	12"	21 / 9.5
EP0412	0.5	115	13	20	1	Plug / No Switch	10'	1 1/2"	Manual	Manual	12"	12"	20 / 9.1
EP0412A	0.5	115	13	20	1	Plug / No Switch	10'	1 1/2"	Manual	Manual	12"	12"	20 / 9.1
EP0412F	0.5	115	13	20	1	Plug / No Switch	20'	1 1/2"	Manual	Manual	12"	12"	22 / 10
EP0412AC	0.5	115	13	20	1	Plug / No Switch	20'	1 1/2"	Manual	Manual	12"	12"	23 / 10.4
EP0412F	0.5	230	6.5	10	1	Plug / No Switch	20'	1 1/2"	Manual	Manual	12"	12"	22 / 10



TRENCH DATA:

TRENCH 1:
 EX. GROUND ABOVE = 503.60
 INV. IN = 499.60
 BOTTOM TRENCH = 499.60

TRENCH 2:
 EX. GROUND ABOVE = 501.70
 INV. IN = 497.70
 BOTTOM TRENCH = 493.70

TRENCH 3:
 EX. GROUND ABOVE = 499.80
 INV. IN = 495.80
 BOTTOM TRENCH = 492.80

TRENCH 4:
 EX. GROUND ABOVE = 497.70
 INV. IN = 493.70
 BOTTOM TRENCH = 490.70

WELL CERTIFICATION:
 THE EXISTING WELL, TAG NO. HO-95-1550, HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12043, EXPIRATION DATE: 7/16/16.

PAUL W. ERZSBERG DATE

