

**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](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 7-15 **ONSITE SEWAGE DISPOSAL SYSTEM** P 580508

APPROVAL DATE: 9/15/15 SEC **PERMIT: CONSTRUCTION** A \_\_\_\_\_

PROPERTY ADDRESS: 14711 Lear Court

SUBDIVISION: Warfields II LOT: 37 TAX ID: \_\_\_\_\_

CONTRACTOR: South Carroll Backhoe EMAIL: sbackhoe@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: \_\_\_\_\_ APPLICATION RATE: \_\_\_\_\_

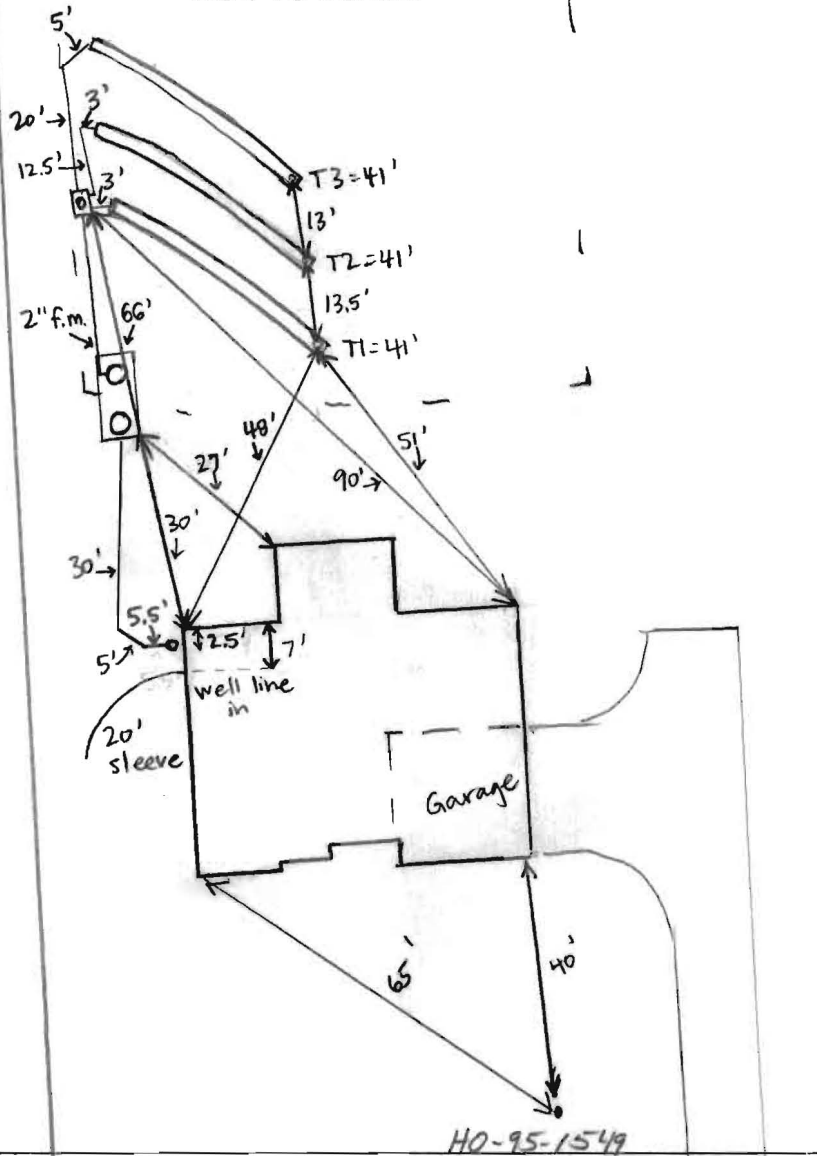
TRENCHES:	LINEAR FEET REQUIRED: <u>68 120</u>	INLET DEPTH: <u>2.5 3</u>
	TRENCH WIDTH: <u>2 2</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION. <u>70 ton</u>	
NOTES:	Use 1 69' long trench. <u>120 x 2 x 5.5</u>	

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

- 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 15003236
- 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'	3'	8'
NUMBER OF TRENCHES 3		
TOTAL LENGTH 123'		
ABSORPTION AREA 369' + SIDEWALL		
DISTRIBUTION BOX LEVEL YES		
DISTRIBUTION BOX BAFFLE NO		
DISTRIBUTION BOX PORT YES		

**SEPTIC TANK DATA**

SEPTIC TANK I LEVEL	YES
MANUFACTURER	MAYER BROS.
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	1'
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:**

7/22/15 Ex. BAT location is w/in 100' well radius, sewer have loc. coming out NW portion of house. I OK'd re location of BAT unit in field since HD approved wrong location originally. Install 3x40' trenches on contour starting 34' down from top left corner SRA. Trench specs adjusted as shown. Call for f/u insp. (46)

**INSTALLATION:** 7/23/15 Tank installed. House connection not made. all other pipe from cleanout at house to tank in place. T3 finished (open at ends) and T2 done (left open). 3' to stone. (SC) 7/24/15 D-box installed and all connections made. T1 finished + left open at ends. Tank bedded around inlet and around pipe on top of tank. 2" force main runs from tank to D-box. Need house connection and BAT startup certification. (SC) 8/17/15 House connection made. Risers level with grade - must be raised 6". (SC) 8/28/15 Risers extend 6" above grade. (SC) 9/11/15 On site with Mike Sample for Hoot startup. Alarm sounds, pump pumps to D-box, recirculation good. (SC) 9/15/15 BAT startup certification received (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 9/15/15

Lot 37

16174 373

003374



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Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

Maure 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 14711 Lear Ct. Glenlyon, md 21737, 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 249.

20  
40

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 ENR.

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 8/8/2014

Print Date: 3/28/2015

LR - Recording Fee (No Taxes) 20.00
Grantor/Grantee Name: NVR
Reference/Control #: 174
LR - Surcharge 40.00
SubTotal: 60.00
Total: 180.00
05/06/2015 11:18 CC13-05
#4285145 CC0503 -
Howard Co
Columbia/CC05.03.07 -
Register 07

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 hereinafter 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* 5/6/15  
Howard County Health Department

*[Signature]* 3/21/15  
Owner #1 Signature Date  
Timothy Naughton

Owner #1 Print Name

*[Signature]* 3/29/2015  
Buyer #1 Signature Date  
Ranjiv George

Buyer #1 Print Name

Owner #2 Signature Date

Owner #2 Print Name

*[Signature]* 3/28/2015  
Buyer #2 Signature Date  
Shiney George

Buyer #2 Print Name

Lot 37

14711 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

Lot 37



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JW 8/8/2014

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.

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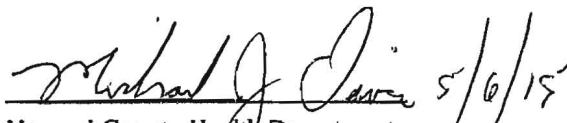
G. This agreement may be voided at any time at the discretion of the County.

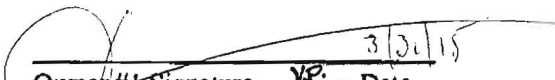
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Howard County Health Department

  
Owner #1 Signature <sup>VP.</sup> Date  
Timothy Naughton NUR.NE. 3/20/15

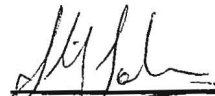
Owner #1 Print Name

  
Buyer #1 Signature Date  
Renju George 3/29/2015

Buyer #1 Print Name

Owner #2 Signature Date

Owner #2 Print Name

  
Buyer #2 Signature Date  
Shiney George 3/28/2015

Buyer #2 Print Name

JW R-B/2014



**MAYER BROS., INC.**

*Precast Concrete Products*

6264 Race Rd. Elkridge, MD 21075

## Letter of Satisfaction Hoot System Installation

Address of Property: 14711 Lear Ct  
Glencig, MD. 21737

Date of Final Inspection: 9/11/15

Installer: South Carroll Backhoe Service

Hoot Technician/Inspector: Mike Sampk

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,

H. Michel Dayer  
Name of Inspector  
Mayer Bros., Inc.

PH: 410-796-1434

FX: 410-796-1438

**WBE**  
**NPCA Certified Plant**

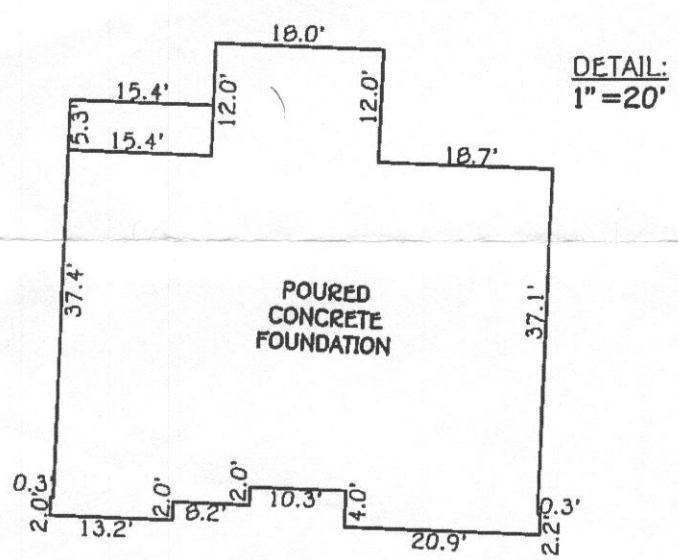
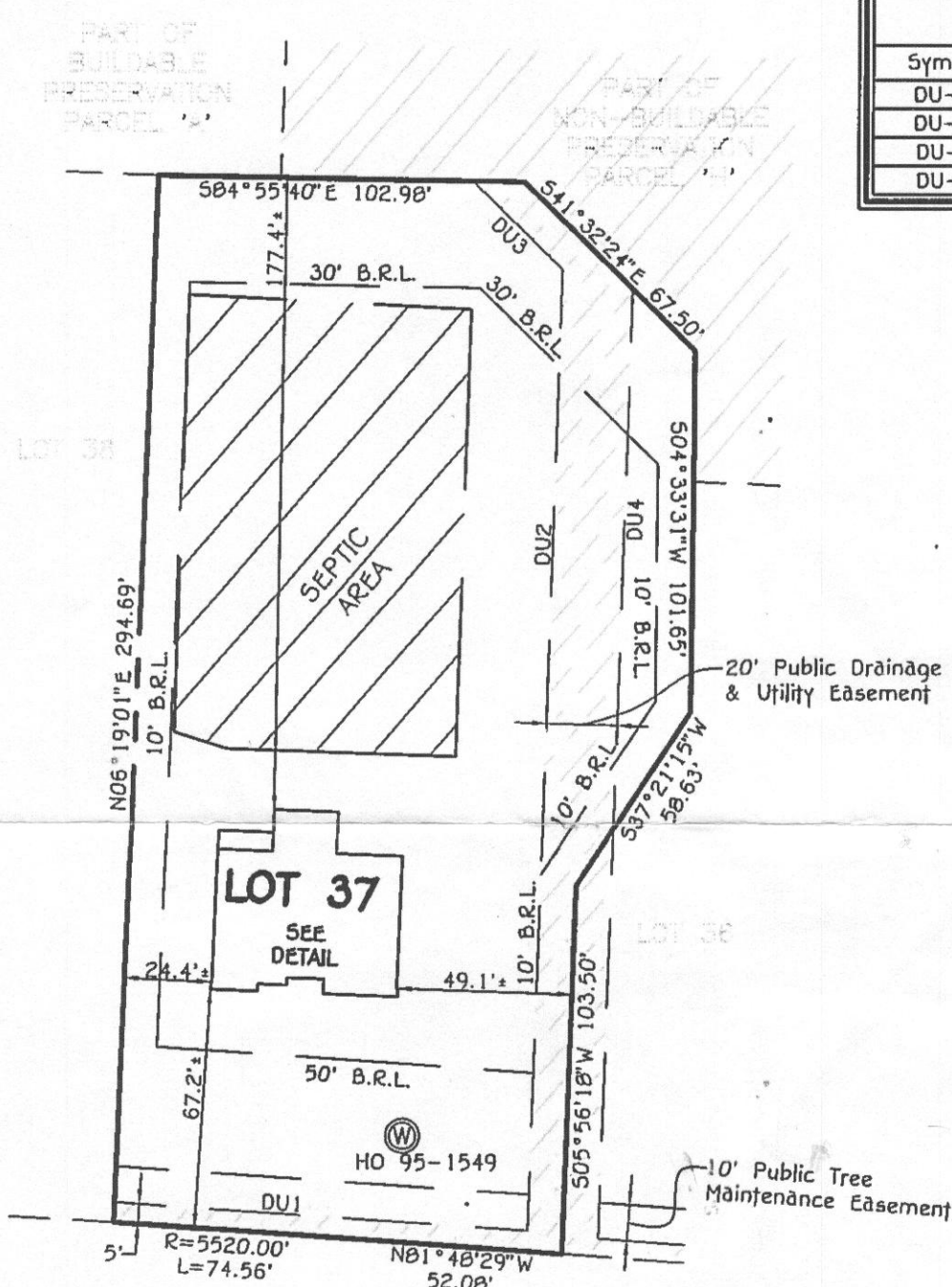
mayerbro@connext.net  
www.mayerbrosprecast.com

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

**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-95-1549 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-15001575

20' Public Drainage & Utility Easement	
Sym	Bearing & Distance
DU-1	S82°08'07"E 116.50'
DU-2	N05°56'18"E 270.20'
DU-3	S41°32'24"E 35.54'
DU-4	S05°56'18"W 267.09'



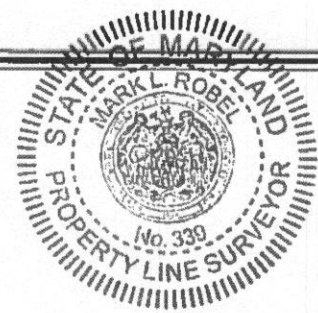
**LEAR COURT**  
(40' R/W)

*7/1/15  
Wall check  
approved  
-kms*

LOT 37  
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

#14711 LEAR COURT  
B.R.L.= BUILDING RESTRICTION LINE  
TOP OF FOUNDATION ELEV.= 518.2'±

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

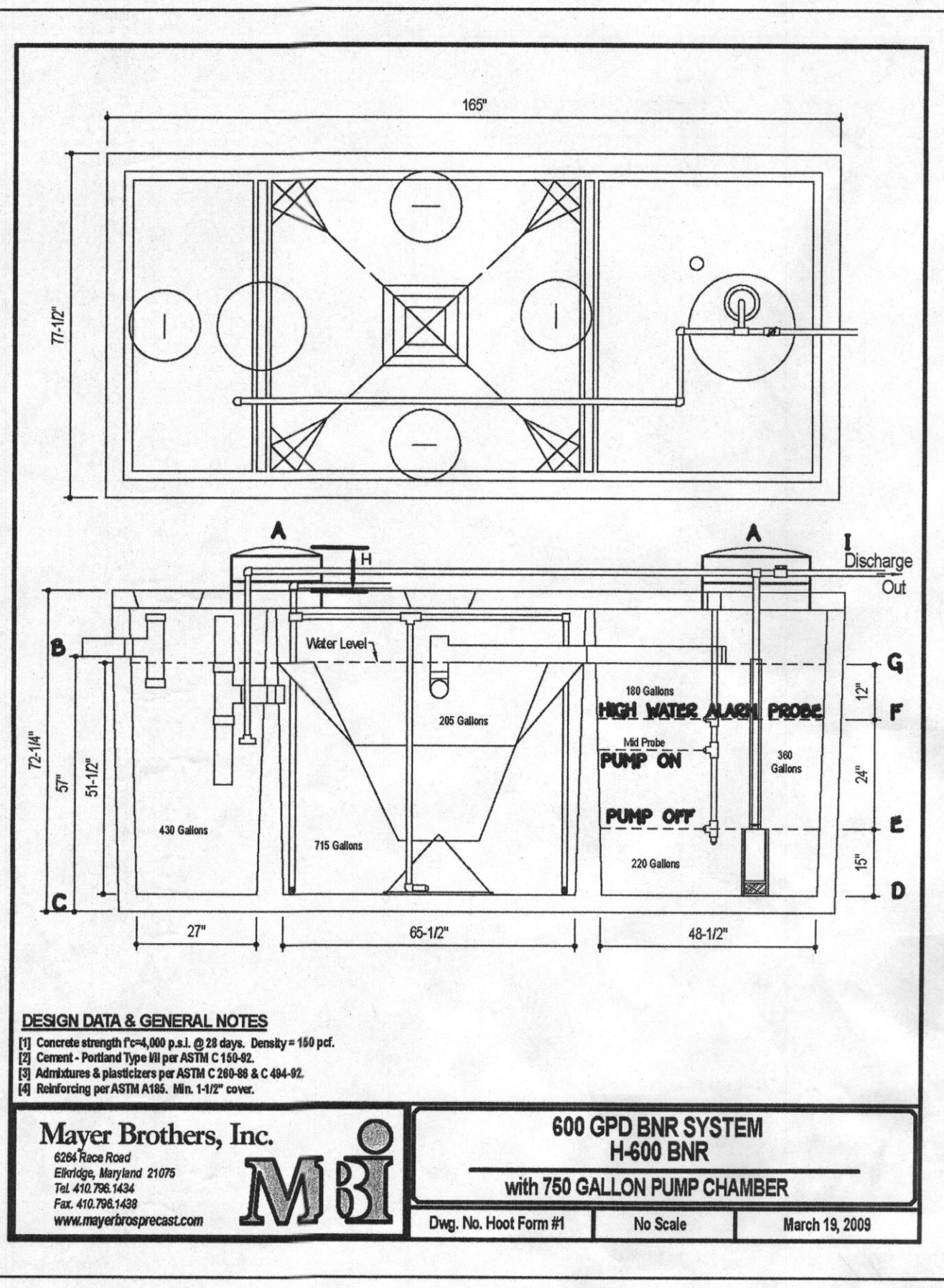


*Mark J. Robel* 6/23/15  
PROPERTY LINE SURVEYOR DATE  
REG. #339

**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



**SEPTIC SYSTEM ELEVATIONS**  
 A= 513.40  
 B= 510.86 (INV. INTO TANK)  
 C= 506.11  
 D= 506.44  
 E= 507.89  
 F= 509.89  
 G= 510.89  
 H= 1.27' (7" MIN.)  
 I= 512.35 (INV. OUT OF TANK)

FFE = 518.91  
 BSE = 509.07  
 INV. OUT OF HOUSE = 511.4  
 INV. INTO DISTRIBUTION BOX = 509.0  
 TOP OF TANK = 512.13  
 DOSE VOLUME = 90 GAL  
 TIME PER DOSE = 2 MIN

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

- BAT NOTES**
1. ANY CHANGE IN THE LOCATION OF DEFFERS TO ANY COMPONENTS MUST BE APPROVED BY THE EMPRESS AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SET PLAN MAY BE REQUIRED.
  2. THE MAXIMUM COVER OVER THE BAT FOR THE MANUFACTURER'S SPECIFICATION IS 3 FEET. IF COVER EXCEEDS 3 FEET, THEN A TRAFFIC BEARING TIME IS REQUIRED.
  3. THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
  4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
  5. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A LICENSED SEWAGE PUMPING CONTRACTOR WITH ONE YEAR OF INSTALLATION. A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE HOWARD DEPARTMENT OF THE ENVIRONMENT (DIED) IN A MANNER ACCEPTABLE TO DIED. THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
  6. ELECTRICAL WIRING FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
  7. AN APPROXIMATION AND DISEASE HAS BEEN COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN THE LAND RECORDS OF HOWARD COUNTY, BOOK 14780, FOLIO 067.
  8. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE SET-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
  9. SURFACE RUNOFF SHALL BE DIRECTED AROUND THE BAT TANK.
  10. AT HIGH WATER ALARM PROBE, PUMP WILL HAVE CONTINUOUS OPERATION UNTIL LEVEL GOES DOWN TO NORMAL.
  11. IF WATER LEVEL RISES ABOVE THE ALARM PROBE, AN ALARM AND VISUAL ALARM WILL SOUND. SEE MANUFACTURER SPECS FOR ADDITIONAL INFORMATION.
  12. ALARM TO BE WIRED TO A CIRCUIT SEPARATE FROM THE PUMP CIRCUIT.

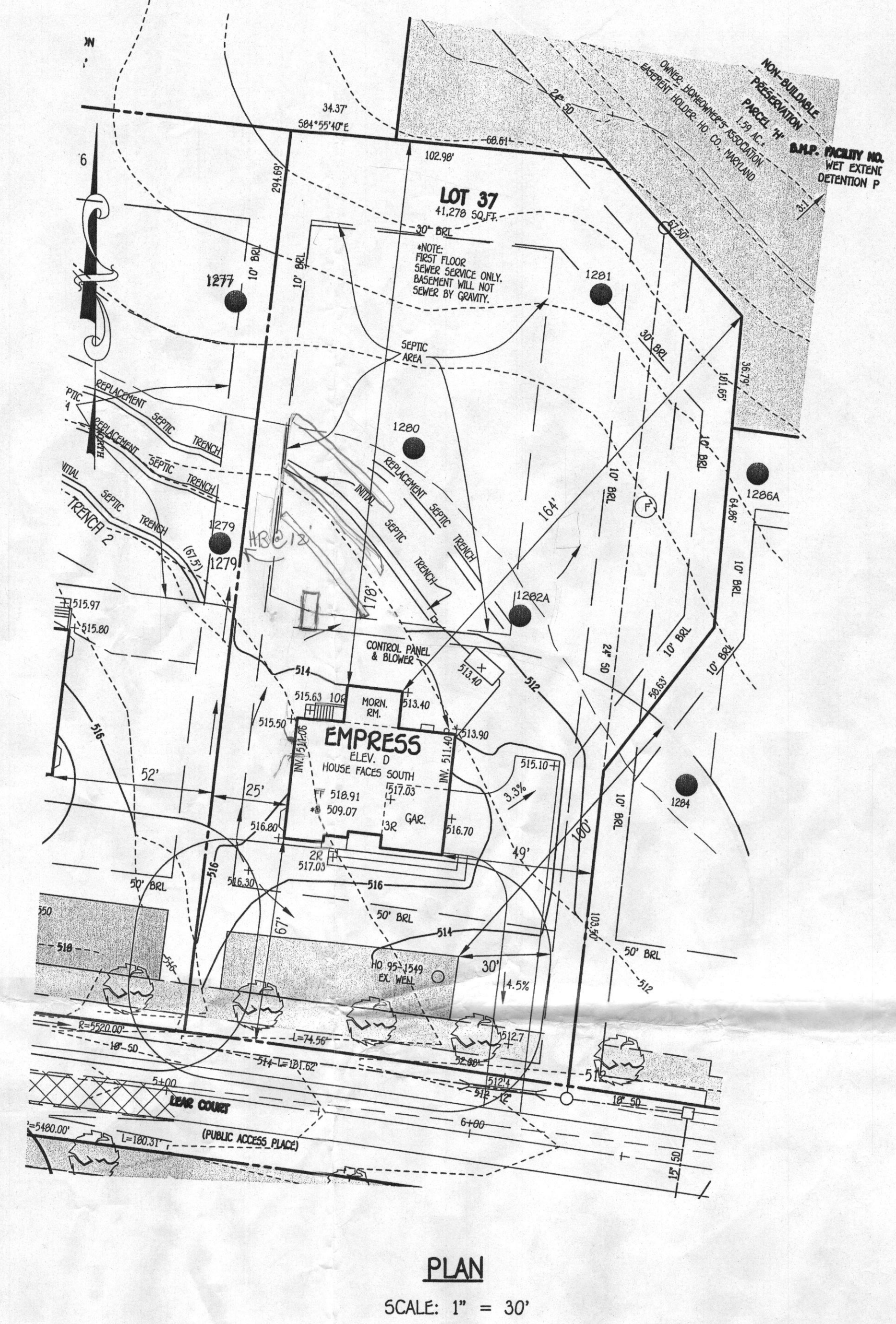
**DESIGN DATA & GENERAL NOTES**

- 1) Concrete strength F<sub>cm</sub> = 4,000 p.s.i. @ 28 days. Density = 150 pcf.
- 2) Concrete - Reinforced Type III per ASTM C 1154-02.
- 3) Admixtures & plasticizers per ASTM C 494-02 & C 494-02.
- 4) Reinforcing per ASTM A 618. Min. 1/4" cover.

**Mayer Brothers, Inc.**  
 6264 Reisterstown Road  
 Ellicott City, Maryland 21037  
 Tel: 410.796.1444  
 Fax: 410.796.1489  
 www.mayerbrothers.com

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

Drawn: No. Hoot Form #1 No Scale March 19, 2009



**SEWAGE DISPOSAL SYSTEM DATA: PREPARE 4 BEDROOMS. DESIGN FOR 5 BEDROOMS**

PROP. INVERT AT FOUNDATION WALL: 511.40  
 1. HOOT 750 BNR (MAX. NO. BEDRMS.=5)  
 EX. GRADE OVER TANK: 511.50  
 PROP. GRADE OVER TANK: 513.40  
 INVERT INTO TANK: 510.86 INVERT (DISCHARGE ELEV.) OUT TANK: 512.35

2. DISTRIBUTION BOX:  
 EX. GRADE: 511.50  
 PROP. GRADE: 511.50  
 INVERT IN: 509.00

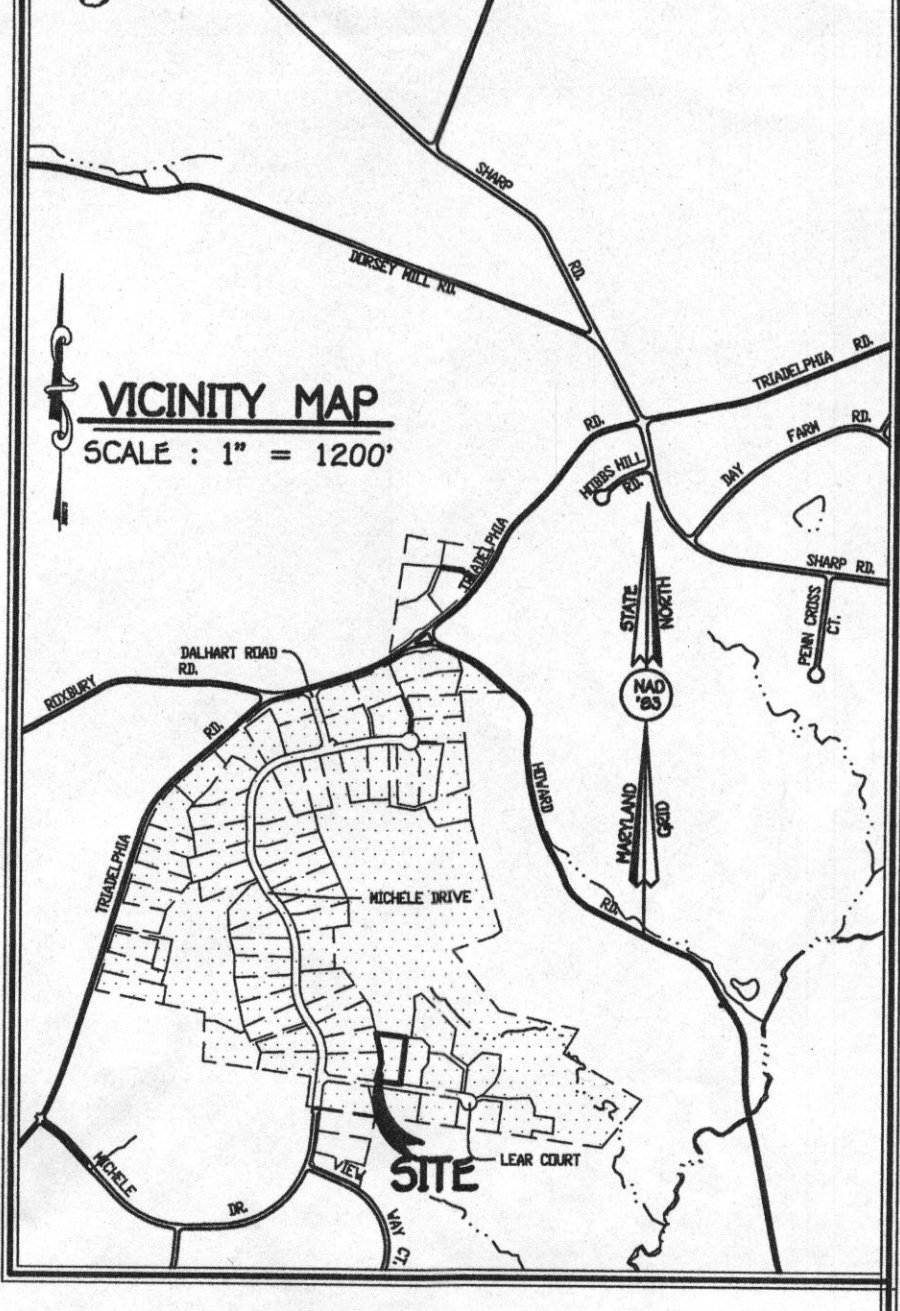
3. TRENCH DESIGN:  
 (5 BDRM X 150 GPD/BDRM= 750 GPD)  
 750 / 1.2 APP. RATE = 625 SF  
 USE 3' WIDE TRENCH AND 10' MIN. SPACING BETWEEN TRENCH EDGES.  
 625 SF / 3' WIDTH = 208.3 LF. X (.33) = 68.75 LF. MIN. TRENCH  
 USE 1- 69' LONG TRENCH = 69 LF.

4. TRENCH DESIGN FOR 1ST REPLACEMENT TRENCH:  
 (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 = 208.3 LF. X (.33) = 68.75 LF. MIN. TRENCH  
 USE 1- 69' LONG TRENCH = 69 LF.

TRENCH DATA:  
 TRENCH 1:  
 EX. GROUND ABOVE = 511.5  
 INV. IN = 508.9  
 BOTTOM TRENCH = 503.5

REPLACEMENT TRENCH 2:  
 EX. GROUND ABOVE = 510.7  
 INV. IN = 508.2  
 BOTTOM TRENCH = 502.7

NOTE: FOR THE INITIAL TRENCHES AND THE 1ST REPLACEMENT TRENCHES, SEPARATION BETWEEN TRENCHES MUST BE 14 FT.



**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.  
 • Capacity: 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 STW with three prong grounding plug. Optional 20 foot length, 16/3 STW 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.

**PERFORMANCE RATINGS**

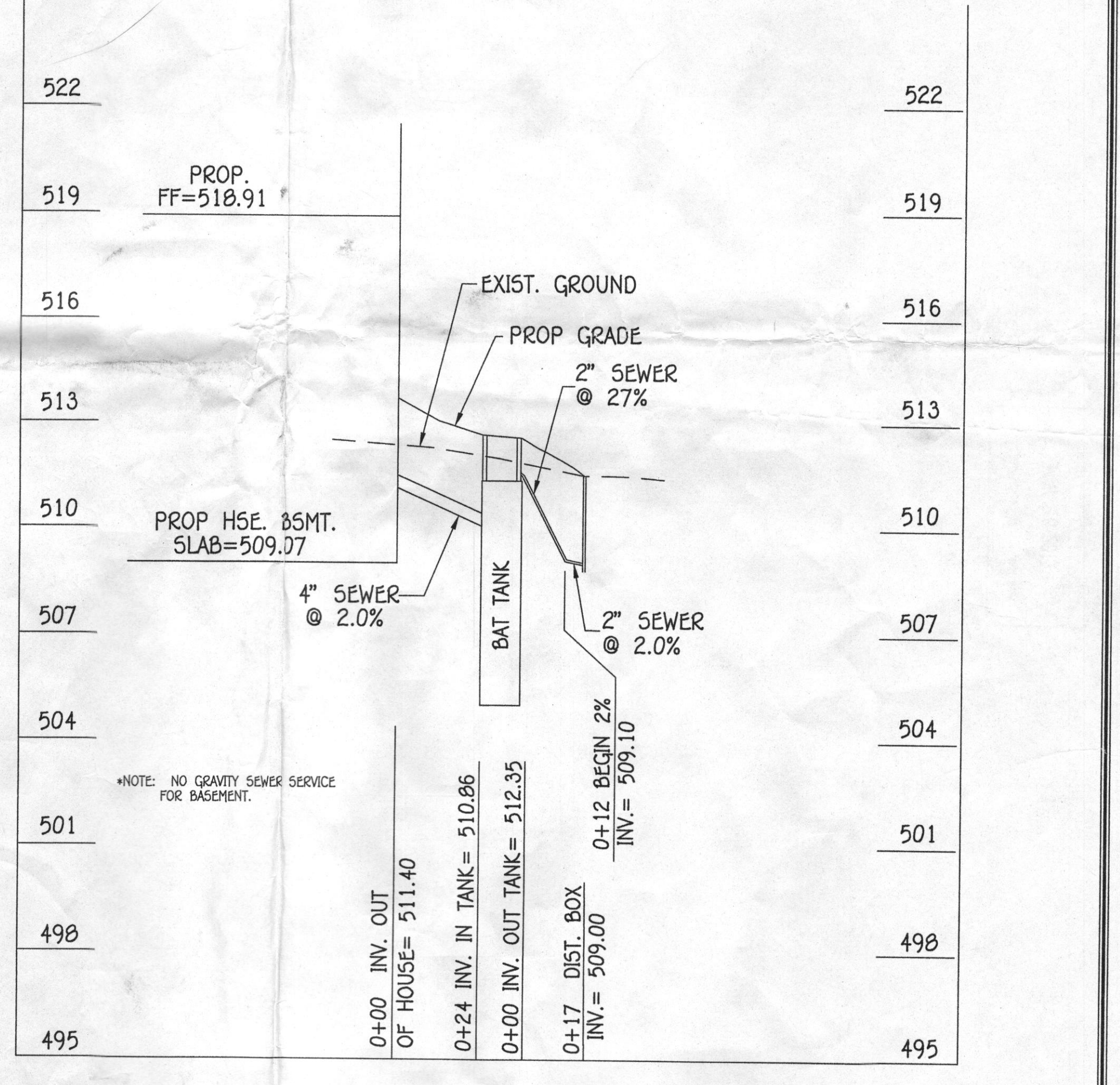
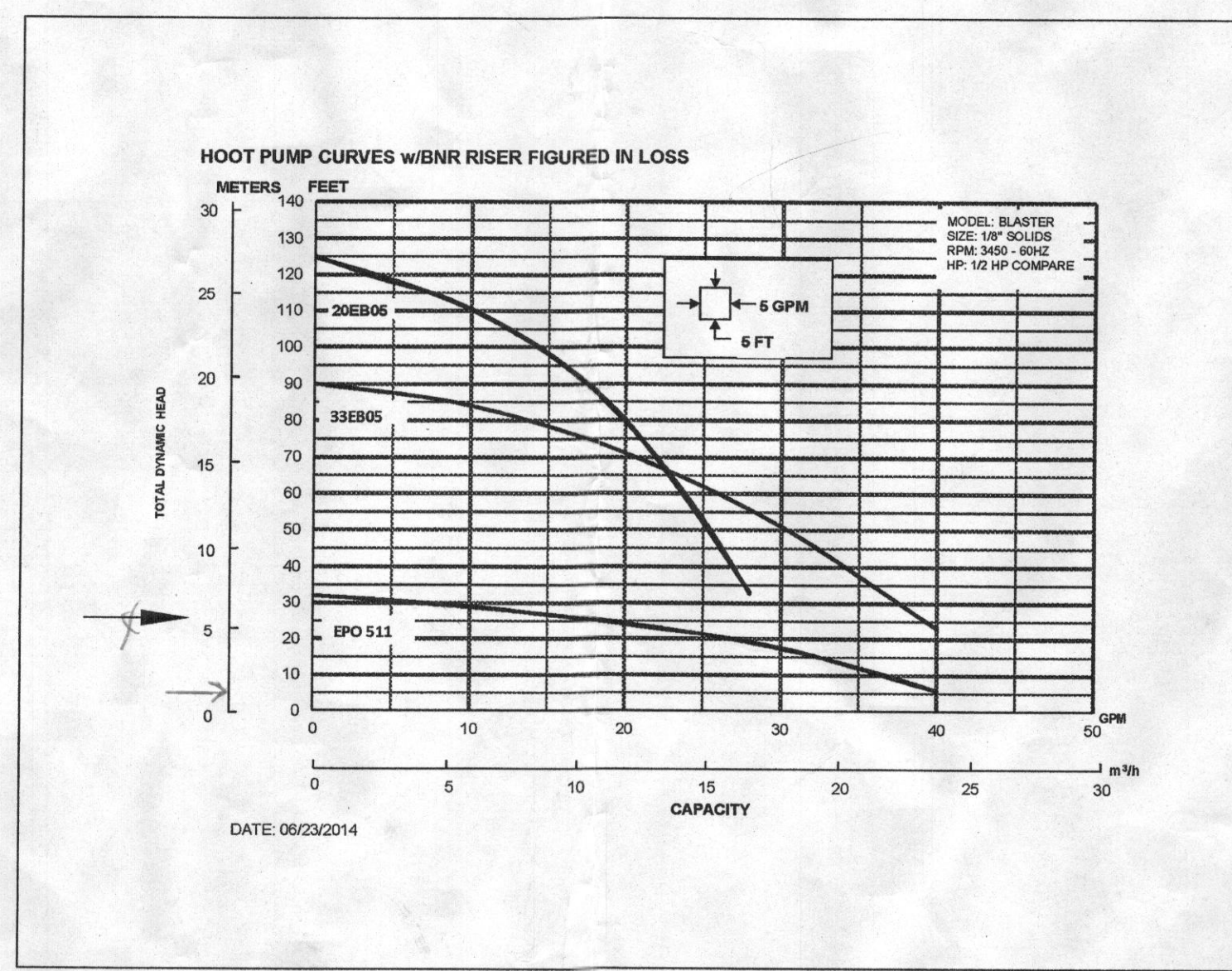
Total Head (ft. of water)	Gallons Per Minute	EP04	EP05
5	59	-	-
10	46	62	-
15	36	55	-
20	21	46	-
25	0	33	-
30	-	11	-

**COMPONENTS**

Item No.	Description
1	Impeller
2	Base
3	Pump Casing
4	Mechanical Seal
5	Bull Bearings
6	O-Rings
7	Power Cord
8	Oil Filled Motor
9	Motor Housing/ Stator Assembly
10	Motor Cover

**MODEL INFORMATION**

Order No.	HP	Volts	Amperes	Phase	Float Switch Style	Discharge Connection	Minimum On Level	Minimum Off Level	Minimum Basin Diameter	Maximum Solids Size	Shipping Weight (lbs)
EP0411	1/4	115	12	20	Plug / No Switch	1 1/2"	11"	Manual	15"	1/2"	20 / 9.1
EP0411A	1/4	115	12	20	Piggyback / Wide-Angle	1 1/2"	11"	Manual	15"	1/2"	21 / 9.5
EP0411F	1/4	115	12	20	Plug / No Switch	2"	11"	Manual	15"	1/2"	20 / 9.1
EP0411AC	1/4	115	12	20	Piggyback / Wide-Angle	2"	11"	Manual	15"	1/2"	21 / 9.5
EP0412	1/2	230	6	10	Plug / No Switch	1 1/2"	11"	Manual	15"	1/2"	20 / 9.1
EP0412F	1/2	230	6	10	Plug / No Switch	2"	11"	Manual	15"	1/2"	20 / 9.1
EP0511F	1/2	115	13	20	Plug / No Switch	1 1/2"	11"	Manual	15"	1/2"	22 / 10
EP0511AC	1/2	115	13	20	Piggyback / Wide-Angle	2"	11"	Manual	15"	1/2"	23 / 10.4
EP0512F	1/2	230	6.5	10	Plug / No Switch	1 1/2"	11"	Manual	15"	1/2"	22 / 10



**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. Kerschel* 05-26-15  
 PAUL W. KERSHEL DATE

**WELL CERTIFICATION:**  
 THE EXISTING WELL, TAG NO. HO-95-1549, HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.

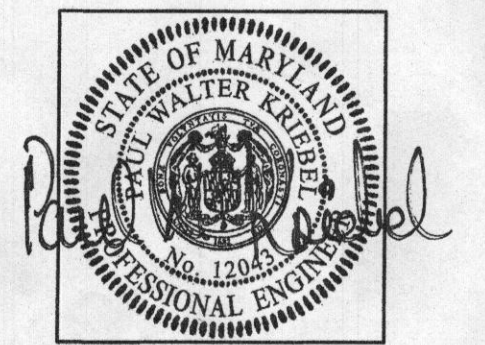
**BUILDER/DEVELOPER**  
 NV HOMES  
 9720 Patuxent Woods  
 COLUMBIA, MARYLAND 21046  
 410-379-5956

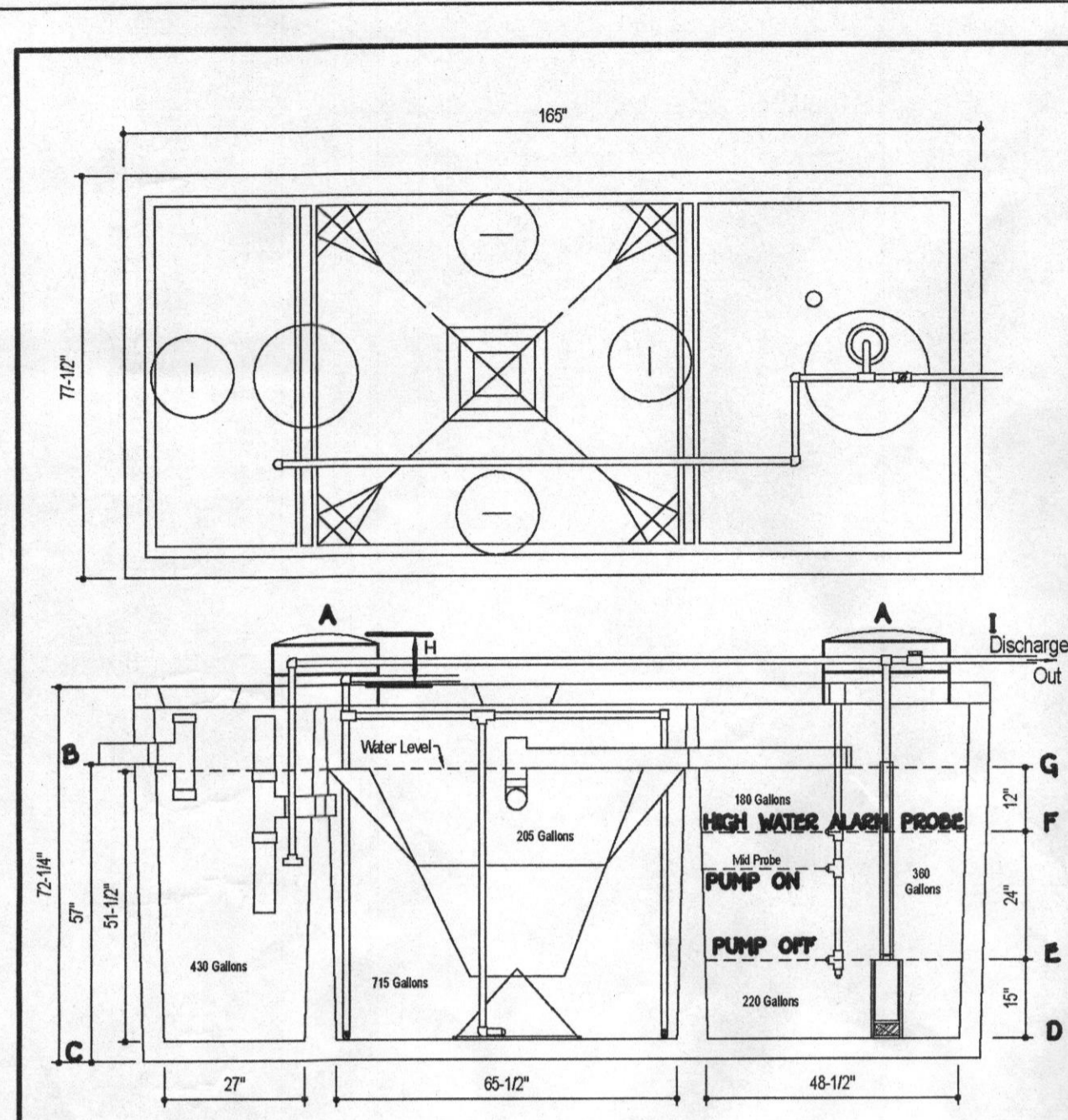
**SEPTIC SYSTEM PROFILE**  
 SCALE: HORIZ. 1" = 30'  
 VERT. 1" = 3'

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

**SITE PLAN FOR BAT INSTALLATION  
 THE WARFIELDS II**  
 14711 LEAR COURT  
 LOT 37  
 SECTION TWO  
 ZONED: RC-00

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





**DESIGN DATA & GENERAL NOTES**

1. Concrete strength F<sub>cm</sub> 4,000 p.s.i. @ 28 days, Density = 150 pcf.  
 2. Cement - Portland Type III per ASTM C 150-02.  
 3. Admixtures & plasticizers per ASTM C 266.5 & C 494-02.  
 4. Reinforcing per ASTM A618, Min. 1-1/2" cover.

**600 GPD BNR SYSTEM**  
**H-600 BNR**  
 with 760 GALLON PUMP CHAMBER

Mayer Brothers, Inc.  
 6300 Rock Road  
 Ellicott City, Maryland 21075  
 Tel: 410.792.1424  
 Fax: 410.792.1428  
 www.mayerbrothers.com

Fig. No. Hoot Form #1 No Scale March 19, 2009

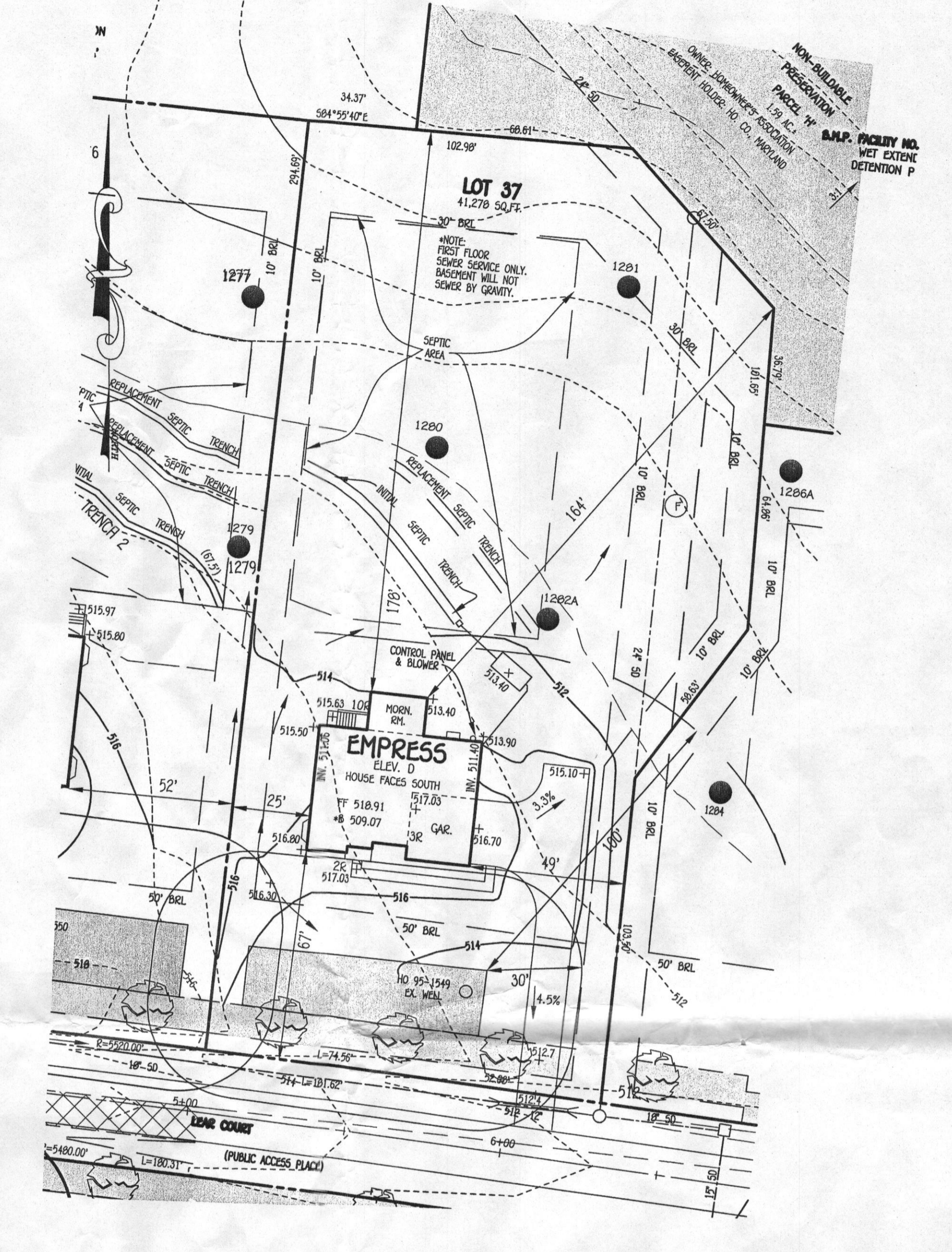
**SEPTIC SYSTEM ELEVATIONS**

A = 513.40  
 B = 510.86 (INV. INTO TANK)  
 C = 506.11  
 D = 506.44  
 E = 507.69  
 F = 509.69  
 G = 510.69  
 H = 1.27' (7" MIN.)  
 I = 512.35 (INV. OUT OF TANK)

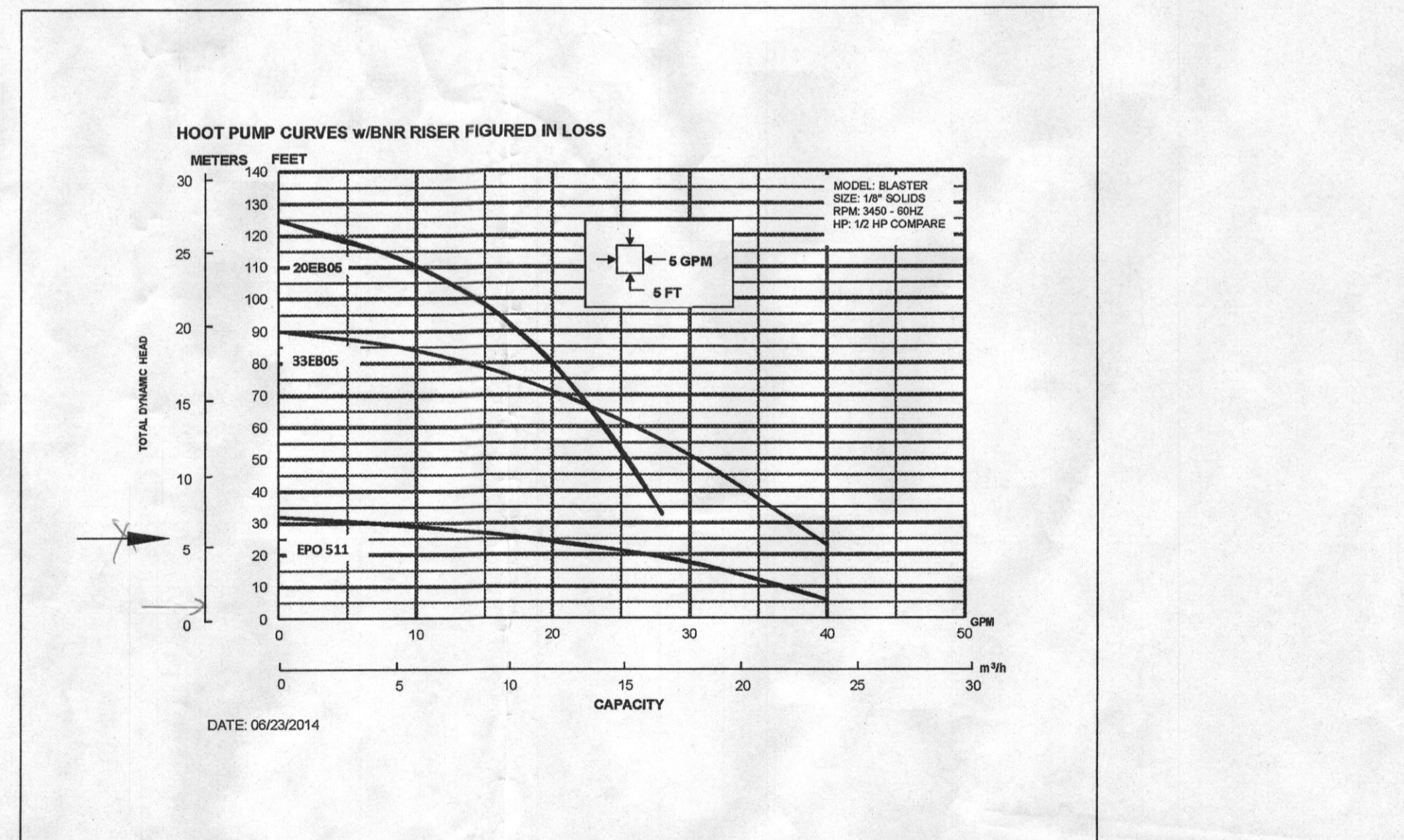
FFE = 518.91  
 BSE = 509.07  
 INV. OUT OF HOUSE = 511.4  
 INV. INTO DISTRIBUTION BOX = 509.0  
 TOP OF TANK = 512.13  
 DOSE VOLUME = 90 GAL.  
 TIME PER DOSE = 2 MIN.  
 Total Dynamic Head Approx 5 Ft.

**NOTE:**  
 THE PROPOSED HOUSE IS TO HAVE 4 BEDROOMS DESIGNED FOR 5.

- BAT 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 REVISION SITE PLAN MAY BE REQUIRED.
  - THE MAXIMUM COVER OVER THE BAT FOR THE MANUFACTURER'S SPECIFICATION IS 3 FEET. IF COVER EXCEEDS 3 FEET, THEN A TRENCH BRACING TANK IS 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 ANY PERSON BY A COVERED SERVICE PROVIDED WITHIN ONE MONTH OF INSTALLATION. A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE HOWARD COUNTY DEPARTMENT OF THE ENVIRONMENT PRIOR TO A PARKING ACCIDENT 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 AGREEMENT AND CASHEMONT HAS BEEN COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN THE LAND RECORDS OF HOWARD COUNTY, LIBER 14760, FOLD 067.
  - THE HEALTH DEPARTMENT REQUIRES OCCUPANCY FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION. SURVEY KENNY SHALL BE DIRECTED AROUND THE BAT TANK.
  - AT HIGH WATER ALARM PROBE, PUMP WILL HAVE CONTINUOUS OPERATIONAL UNTIL LEVEL CROSS REVERSE 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 WIRING TO A CIRCUIT SEPARATE FROM THE PUMP CIRCUIT.



**PLAN**  
 SCALE: 1" = 30'



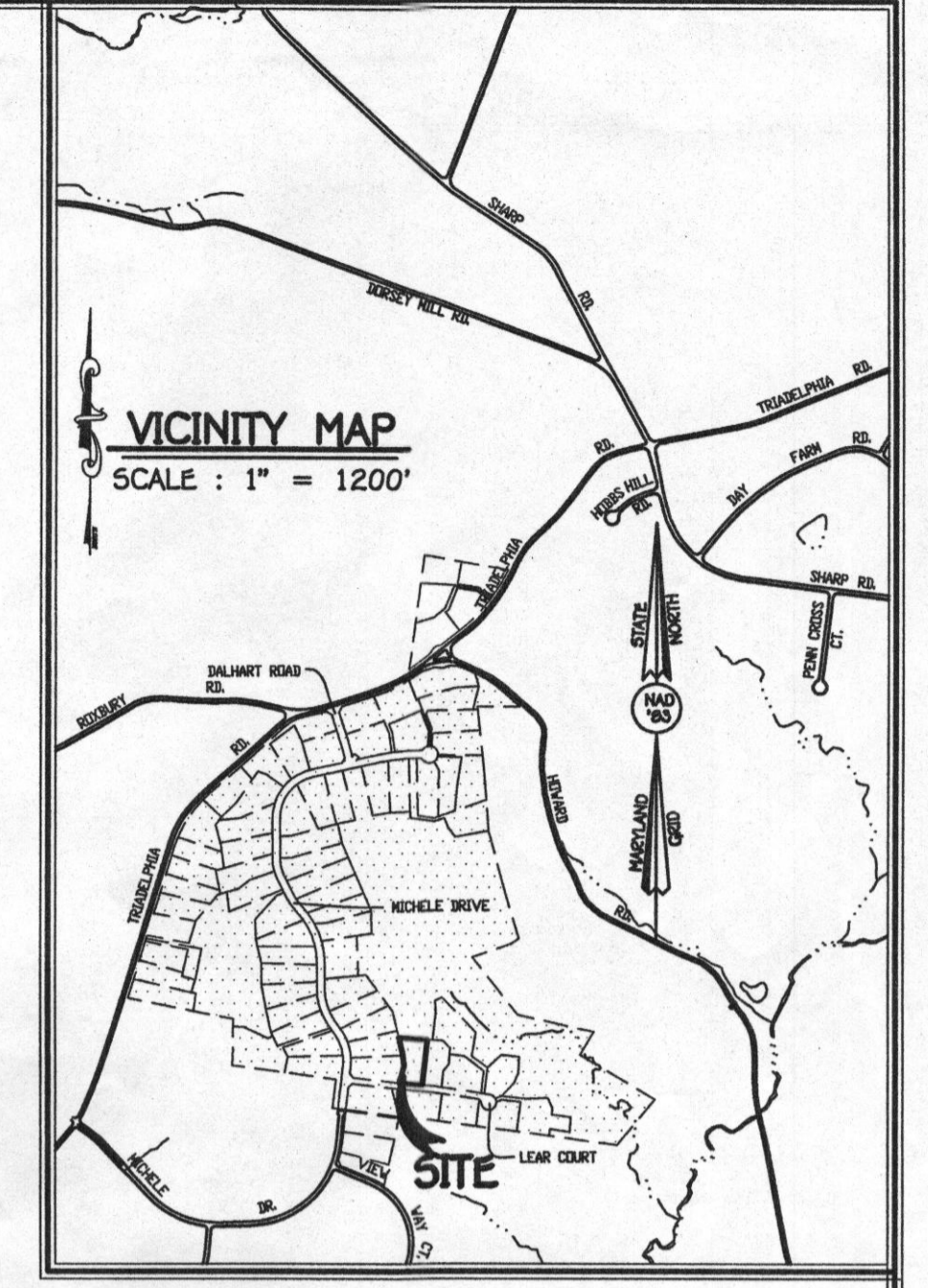
**SEWAGE DISPOSAL SYSTEM DATA: PERMIT 4 BEDROOMS, DESIGN FOR 5 BEDROOMS**

PROP. INVERT AT FOUNDATION WALL: 511.40  
 1. HOOT 750 BNR (MAX. NO. BEDRMS=5)  
 EX. GRADE OVER TANK: 511.50  
 PROP. GRADE OVER TANK: 513.40  
 INVERT INTO TANK: 510.86 (INVERT (DISCHARGE ELEV.) OUT TANK: 512.35)

2. DISTRIBUTION BOX:  
 EX. GRADE: 511.50  
 PROP. GRADE: 511.50  
 INVERT IN: 509.00

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 = 208.3 L.F. X 0.33 = 68.75 L.F. MIN. TRENCH  
 USE 1 - 69' LONG TRENCH = 69 L.F.

4. TRENCH DESIGN FOR 1ST REPLACEMENT TRENCH:  
 (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 = 208.3 L.F. X 0.33 = 68.75 L.F. MIN. TRENCH  
 USE 1 - 69' LONG TRENCH = 69 L.F.

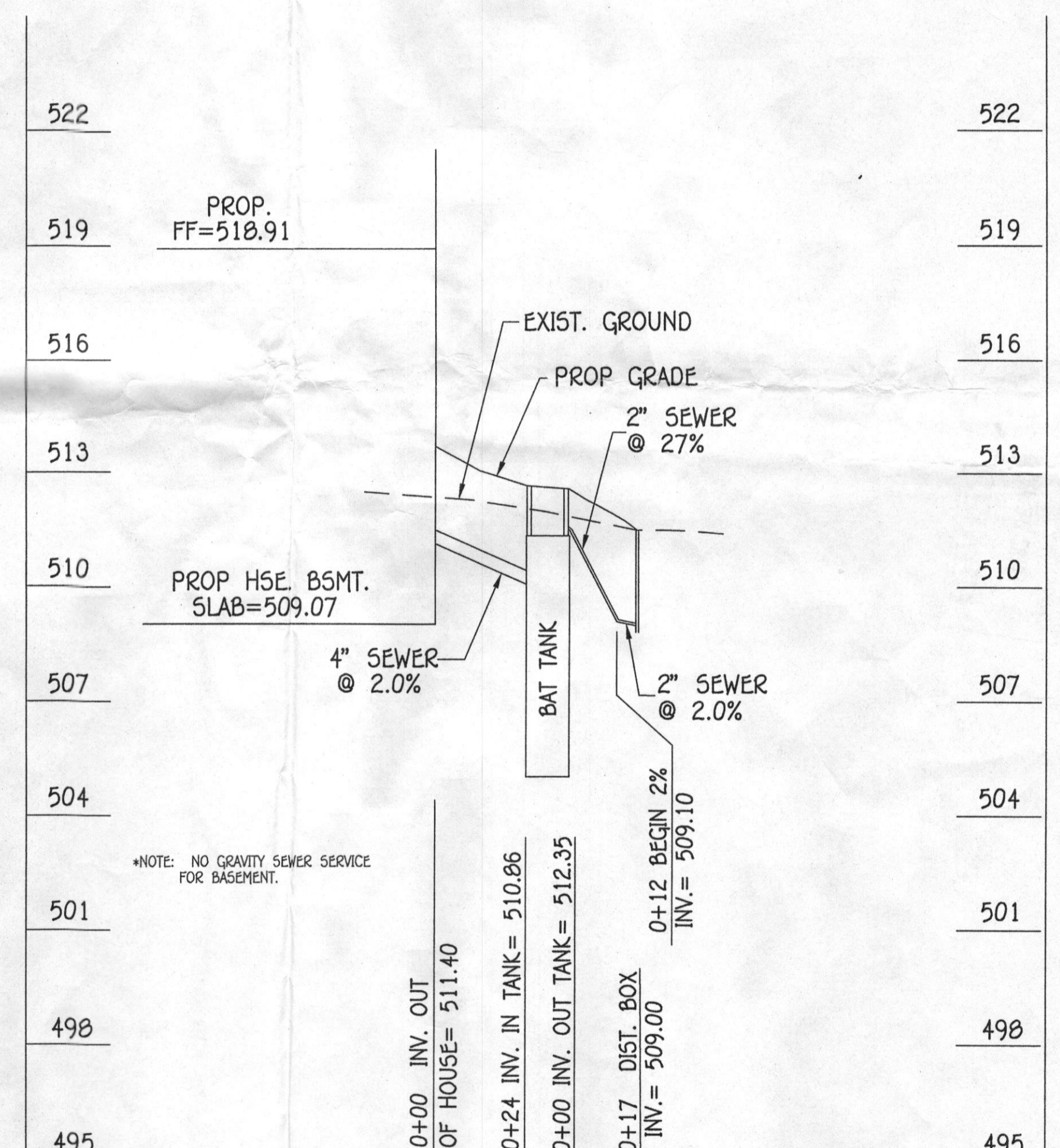


**TRENCH DATA:**

TRENCH 1:  
 EX. GROUND ABOVE = 511.5  
 INV. IN = 508.9  
 BOTTOM TRENCH = 503.5

TRENCH 2:  
 EX. GROUND ABOVE = 510.7  
 INV. IN = 508.2  
 BOTTOM TRENCH = 502.7

**NOTE:** FOR THE INITIAL TRENCHES AND THE 1ST REPLACEMENT TRENCHES, SEPARATION BETWEEN TRENCHES MUST BE 14 FT.



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 • 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)	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	Blade
3	Pump Casing
4	Mechanical Seal
5	Ball Bearings
6	O-Ring
7	Power Cord
8	Oil Filled Motor
9	Motor Housing/ Starter Assembly
10	Motor Cover

**MODEL INFORMATION**

Order No.	HP	Volts	Amperes	Minimum Circuit Breaker	Phase	Float Switch Style	Cord Length	Discharge Connection	Minimum Inlet Level	Minimum Outlet Level	Minimum Basin Diameter	Maximum Solids Size	Shipping Weight (lbs)
EP0411						Plug / No Switch	10'	1 1/2"	Manual	Manual	15"		20 / 9.1
EP0411A						Plugback / Wide-Angle	10'	1 1/2"	12"	6"	15"		21 / 9.5
EP0411F		115	12	20		Plug / No Switch	20'	1 1/2"	Manual	Manual	15"		20 / 9.1
EP0411AC						Plugback / Wide-Angle	20'	1 1/2"	12"	6"	15"		21 / 9.5
EP0412		230	6	10	1	Plug / No Switch	10'	1 1/2"	Manual	Manual	15"	1/2"	20 / 9.1
EP0412F						Plug / No Switch	20'	1 1/2"	Manual	Manual	15"		20 / 9.1
EP051F		115	13	20		Plug / No Switch	10'	1 1/2"	Manual	Manual	15"		22 / 10
EP0511AC						Plugback / Wide-Angle	20'	1 1/2"	12"	6"	15"		23 / 10.4
EP0512F		230	6.5	10		Plug / No Switch	20'	1 1/2"	Manual	Manual	15"		22 / 10

**PROFESSIONAL CERTIFICATION**

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

*Paul W. Koebel*  
 PAUL W. KOEBEL  
 05-26-15  
 DATE

**WELL CERTIFICATION:**  
 THE EXISTING WELL, TAG NO. HO-95-1549, HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.

**BUILDER/DEVELOPER**  
 NV HOMES  
 9720 Patuxent Woods  
 COLUMBIA, MARYLAND 21046  
 410-379-9996

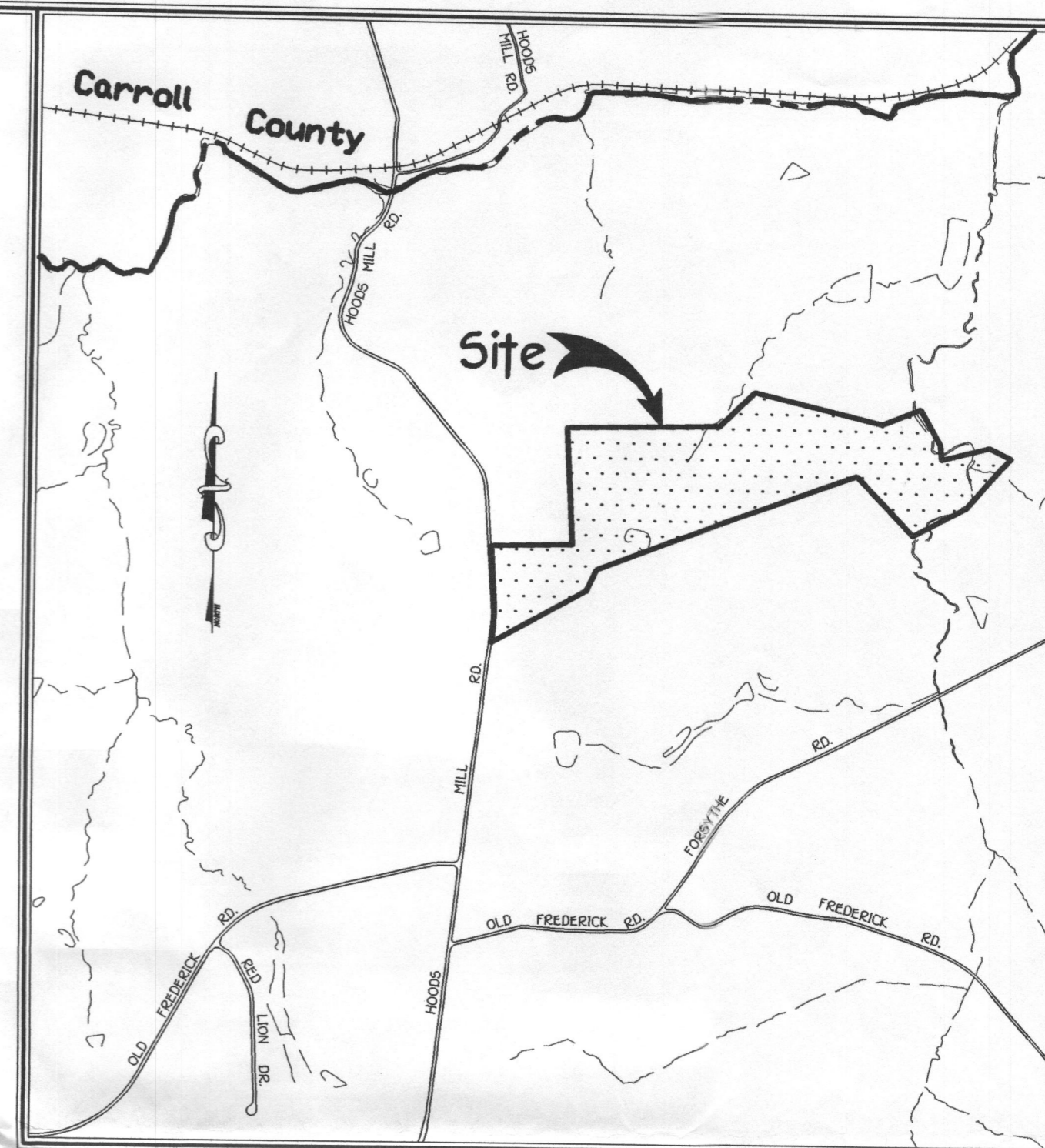
**Approved Septic System Plan**  
 Howard County Health Department  
*Paul W. Koebel*  
 Signature  
 5/26/15  
 Date

**SITE PLAN FOR BAT INSTALLATION**  
**THE WARFIELDS II**  
 14711 LEAR COURT  
 LOT 37  
 SECTION TWO  
 ZONED: RC-DEO  
 TAX MAP NO: 27 GRID NO: 5 PARCEL NO: 114  
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS NOTED DATE: MAY 26, 2015

SOILS LEGEND		
SOIL	NAME	CLASS
HeB2	Neshaminy silt loam, 3 to 8 percent slopes, moderately eroded	B
MsD	Montalto and Relay very stony silt loams, 3 to 25 percent slopes	B
GIC3	Glenelig loam, 0 to 15 percent slopes, severely eroded	B
GI82	Glenelig loam, 3 to 8 percent slopes, moderately eroded	B
KcC2	Kelly silt loam, 0 to 15 percent slopes, moderately eroded	D
EkB2	Elioak silt loam, 3 to 8 percent slopes, moderately eroded	B
MB2	Manor loam, 3 to 8 percent slopes, moderately eroded	B
NsD3	Neshaminy silt loam, 15 to 25 percent slopes, severely eroded	B
MnD	Manor very stony loam, 3 to 25 percent slopes	B
CuB	Comus silt loam, local alluvium, 3 to 8 percent slopes	B
MIC3	Manor loam, 0 to 15 percent slopes, severely eroded	B
GI2	Glenelig loam, 0 to 15 percent slopes, moderately eroded	B
EIC3	Elioak silty clay loam, 0 to 15 percent slopes, moderately eroded	D
KeB2	Kelly silt loam, 3 to 8 percent slopes, moderately eroded	D
GnB2	Glenville silt loam, 3 to 8 percent slopes, moderately eroded	C
GI2	Glenelig loam, 0 to 15 percent slopes, moderately eroded	B
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
MnF	Manor very stony loam, 25 to 60 percent slopes	B
MI2	Manor loam, 25 to 45 percent slopes	B
Hs	Hatboro silt loam	D
GI2	Glenelig loam, 15 to 25 percent slopes, moderately eroded	B
LgC3	Legore silty clay loam, 0 to 15 percent slopes, severely eroded	B

NOTES:  
 \* Hydric soils and/or contains hydric inclusions  
 \*\* May contain hydric inclusions  
 † Generally only within 100-year floodplain areas

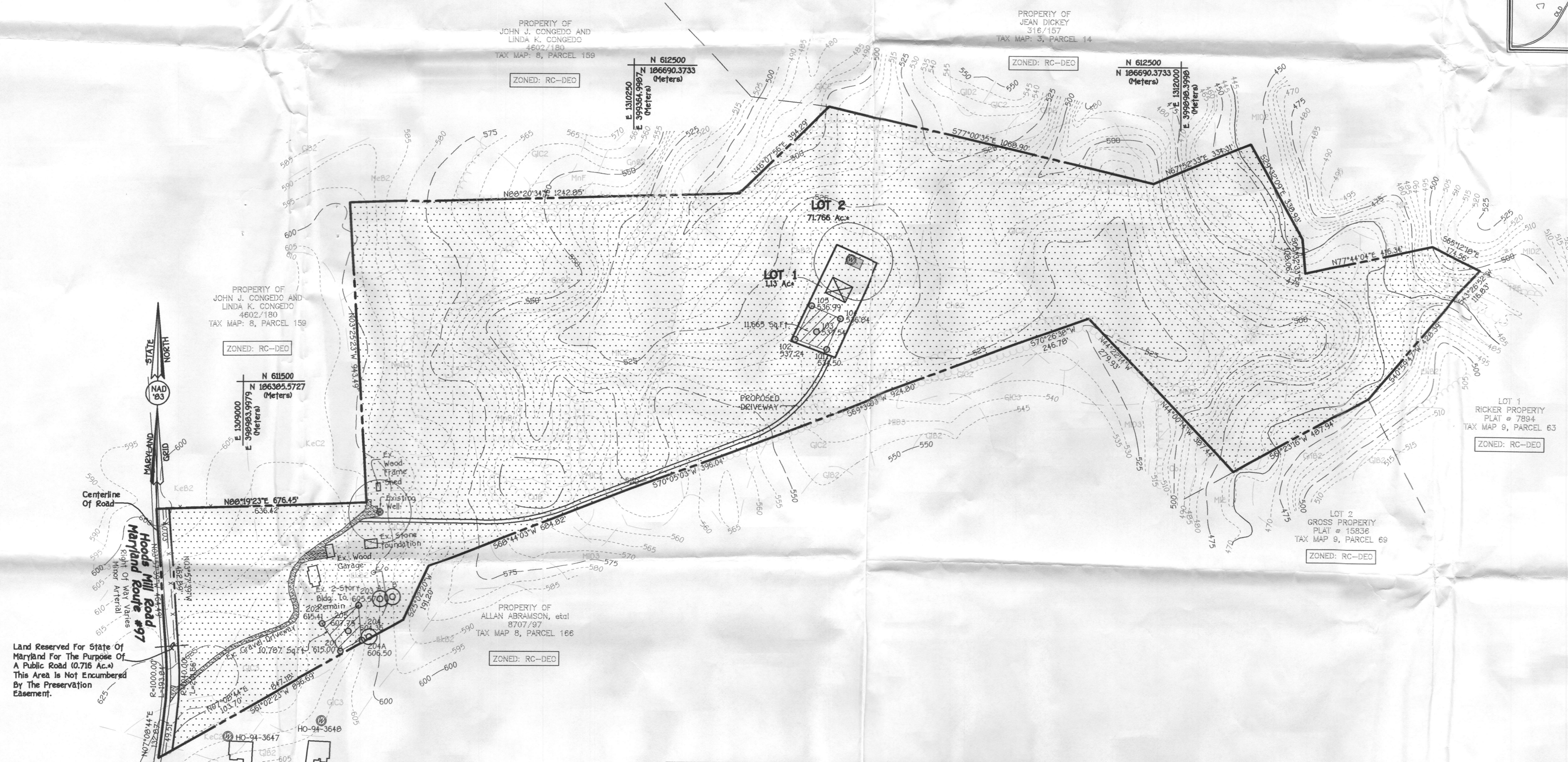
LEGEND	
---	EXISTING 2' CONTOURS
---	EXISTING 10' CONTOURS
---	EXISTING TREE LINE
---	SOIL LINES AND TYPES
○	DENOTES PROPOSED WELL
○	DENOTES FAILED PERC
○	DENOTES PASSED PERC
○	DENOTES PROPOSED PERC
□	DENOTES PROPOSED HOUSE
□	DENOTES 15% - 24.9% SLOPES
□	DENOTES 25% AND GREATER SLOPE
□	DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE



Vicinity Map  
 Scale: 1"=1200'

GENERAL NOTES:

- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
- ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
- ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
- ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
- TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY GIS TOPOGRAPHY AT 5' CONTOUR INTERVAL INTERPOLATED FOR 2' CONTOUR INTERVAL.
- BOUNDARY OUTLINE BASED ON FIELD BOUNDARY SURVEY PERFORMED ON OR ABOUT JUNE, 2004 BY DAFT-MCCUNE AND WALKER.
- DEED REFERENCE LIBER 3078 FOLIO 613



Land Reserved For State Of Maryland For The Purpose Of A Public Road (0.715 Ac.) This Area Is Not Encumbered By The Preservation Easement.

PERC CERTIFICATION  
 I certify that the locations shown hereon are based on field locations done under my direct supervision and are correct to the best of my professional knowledge and belief.  
 Signature of Professional Land Surveyor: Terrell A. Fisher, Professional Land Surveyor No. 10692  
 Date: 5/18/06

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT.  
 Signature of County Health Officer: Robert J. Walker  
 Date: 5/22/06

Owner: Rose Hill Farm, LLC  
 c/o Mr. & Mrs. David and Barbara Costello  
 979 Route 97  
 Cooksville, Maryland 21723

Developer: Mr. & Mrs. Kenneth Warfield, Jr.  
 14451 Triadelphia Road  
 Glenelig, Maryland 21737

PERC CERTIFICATION PLAT  
 ROSE HILL FARM, LLC  
 LOT 1 AND 2  
 Zoned: RC-DEO

Tax Map: 8 Parcel 30 Grid 6  
 Fourth Election District  
 Howard County, Maryland

Scale: 1"=200'  
 Date: May 18, 2005  
 Sheet 1 of 1

SIGNED PERC CERT 5/22/06