

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: 7-15 **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: 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: _____

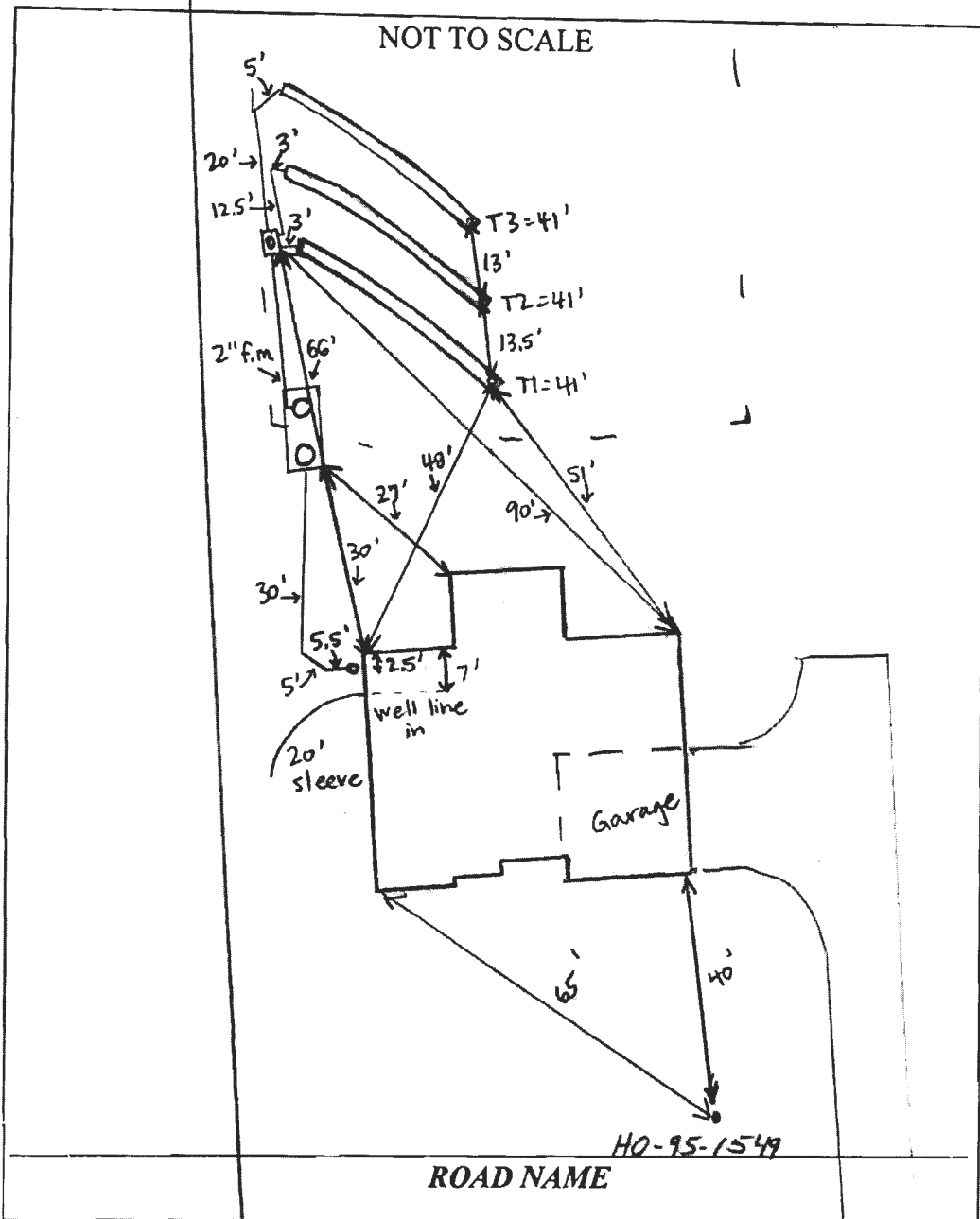
DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: _____ APPLICATION RATE: _____

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: 7-1-16

- 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 DOWNGRADE 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.



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2'	3'	8'
NUMBER OF TRENCHES	3	
TOTAL LENGTH	123'	
ABSORPTION AREA	369' + SIDEWALK	
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 hole 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 SPA. Trench specs adjusted as shown. Call for f/u insp. (u)

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

001617400373

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 21732, 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
D

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 8/2/2014

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
#41206145 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 ^{VP} Date
Timothy Naughton

Owner #1 Print Name

Owner #2 Signature Date

Owner #2 Print Name

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

Buyer #1 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

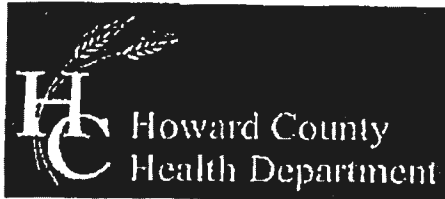
=====
SubTotal: 180.00
Total: 180.00
=====

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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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 14711 Lear Ct. Glenly, 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.

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 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.

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.

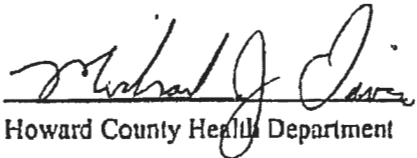
G. This agreement may be voided at any time at the discretion of the County.

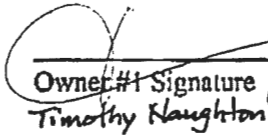
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I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

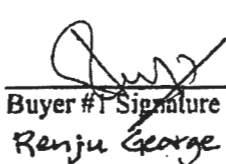
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IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

 5/6/15
Howard County Health Department

 3/21/15
Owner #1 Signature ^{VP.} Date
Timothy Naughton NURSE

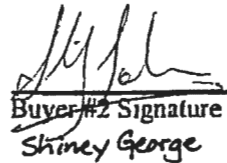
Owner #1 Print Name

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

Buyer #1 Print Name

Owner #2 Signature Date

Owner #2 Print Name

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

Buyer #2 Print Name



MAYER BROS., INC.

Precast Concrete Products

6264 Race Rd. Elkridge, MD 21075

Letter of Satisfaction Hoot System Installation

Address of Property: 14711 Lear Ct
Glenn, 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 Dager
Name of Inspector
Mayer Bros., Inc.

PH: 410-796-1434

FX: 410-796-1438

WBE
NPCA Certified Plant

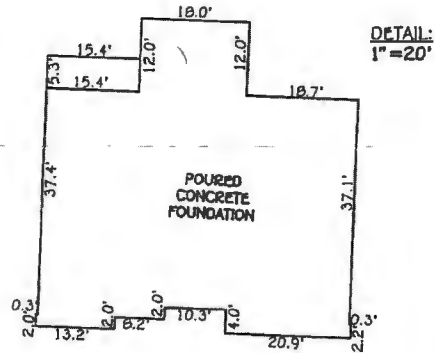
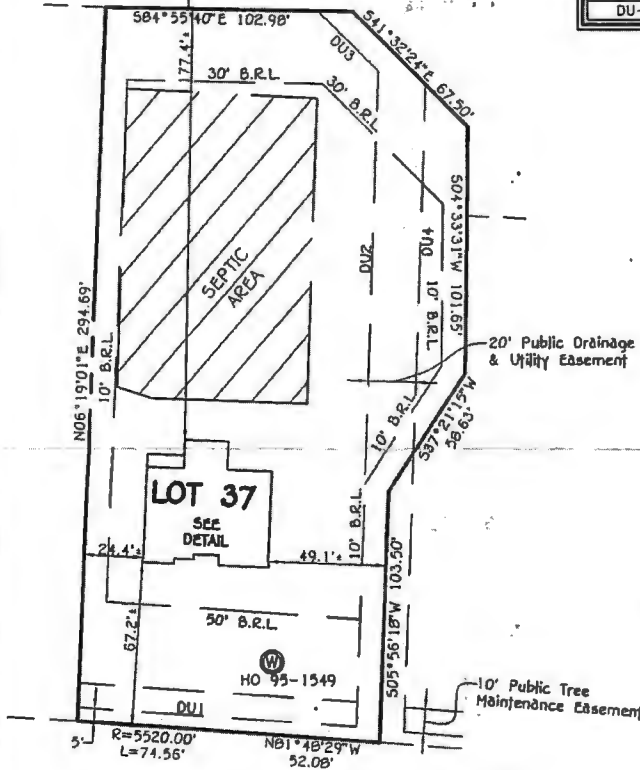
mayerbro@connext.net
www.mayerbrosprecast.com

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. 2420440020-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'



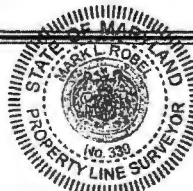
LEAR COURT
(40' R/W)

*7/1/15
Well checked
approved
-KMW*

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 "T"
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
PLAT #20247-20254

#14711 LEAR COURT
B.R.L. = BUILDING RESTRICTION LINE
TOP OF FOUNDATION ELEV. = 510.2'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SOURCE OFFICE: PARK - 10272 BALTIMORE NATIONAL PIKE
BALTIMORE CITY, MARYLAND 21042
(410) 461-2895

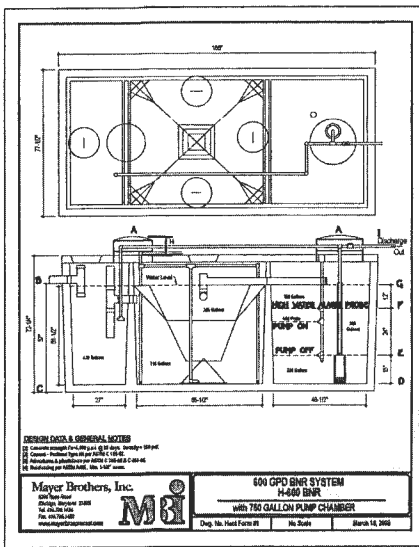


Mark L. Roll *6/23/15*
PROPERTY LINE SURVEYOR DATE
REG. #339

HOUSE LOCATION DRAWING

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

SCALE: 1"=50'
DATE: 6/23/15
DRAWN BY: GMD
CHECKED BY: MLR
PROJECT No. 20180-6001



SPEC. SYMBOL PLACEMENT

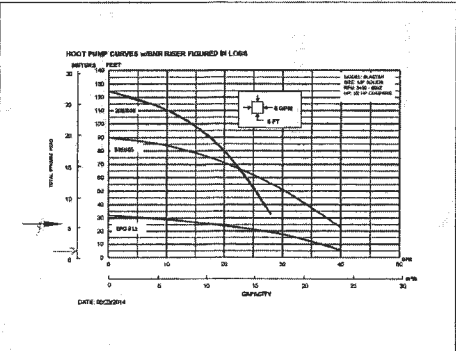
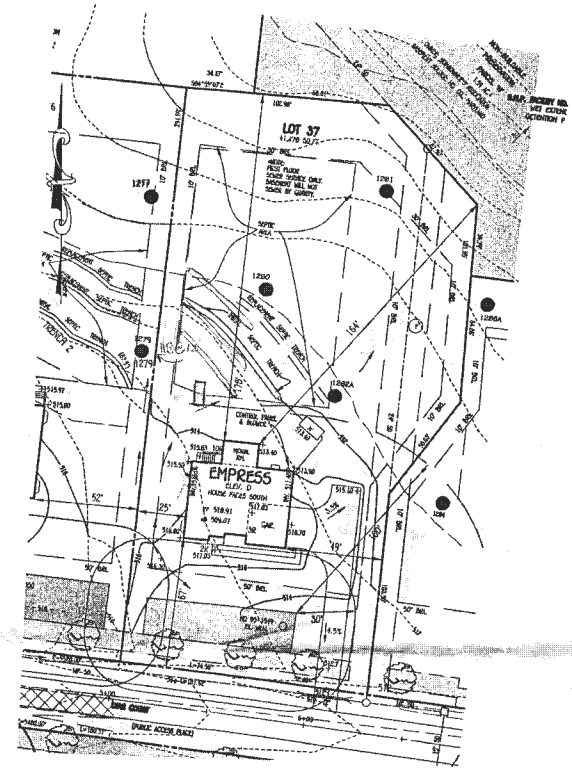
A = 513.48
 B = 510.28 (INV. INTO TANK)
 C = 506.11
 D = 502.94
 E = 507.81
 F = 509.69
 G = 510.56
 H = 512.77 (FP. HBL.)
 I = 512.95 (INV. OUT OF TANK)

FIN = 518.91
FOSE = 509.97
INV. OUT OF HOUSE = 514
INV. INTO GROUND/UNDER SLAB = 509.0
TOP OF TANK = 512.15
DOSE VALVE = 507.00
TIME PER DOSE = 2 MIN

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

BAT NOTES

1. ANY CHANGE TO THE LOCATION OR DEPTH OF ANY EXISTING WELL IS APPLICABLE TO THE HOUSE AND THE HOUSE OWNER SHALL BE RESPONSIBLE FOR OBTAINING A PERMIT FROM THE STATE OF IOWA.
2. THE HOUSE OWNER SHALL BE RESPONSIBLE FOR OBTAINING A PERMIT FROM THE STATE OF IOWA FOR ANY CHANGE TO THE LOCATION OR DEPTH OF ANY EXISTING WELL.
3. THE HOUSE OWNER SHALL BE RESPONSIBLE FOR OBTAINING A PERMIT FROM THE STATE OF IOWA FOR ANY CHANGE TO THE LOCATION OR DEPTH OF ANY EXISTING WELL.
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20. THE HOUSE OWNER SHALL BE RESPONSIBLE FOR OBTAINING A PERMIT FROM THE STATE OF IOWA FOR ANY CHANGE TO THE LOCATION OR DEPTH OF ANY EXISTING WELL.



SEWER DISPOSAL WITH SOIL PUMP & BATTERY POWER FOR 4 BEDROOMS

PROP. BATTERY AT FOUNDATION WALL: 511.40

1. EXIST. 2" DIA. (100' TO 100')
 CL. GRADE OVER DATE: 513.20
 PROP. GRADE OVER DATE: 513.10
 BRICKS INTO TRENCH: 510.24
 BRICKS INTO TRENCH: 510.24
 BRICKS INTO TRENCH: 510.24

E. DESTINATION SIDE:
 EX. GRADE: 511.50
 PROP. GRADE: 511.50
 BATTERY IN: 509.00

L. TRENCH DESIGN:
 (1) 800' x 150' (CONCRETE) - 750' (2)
 (2) 7' x 12' (4) - 400' (2)
 USE 2" DIA. TRENCH AND 10' DIA. SLOTTING BETWEEN TRENCH EDGES
 USE 2" x 12' (4) - 200.00 L.F. x 1.10 = 220.00 L.F. FOR TRENCH
 USE 1" - 60' LONG, TRENCH = 60' L.F.

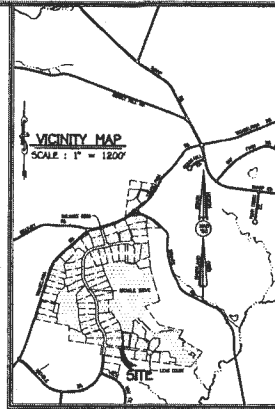
4. TRENCH DESIGN FOR 1ST REPLACEMENT TRENCH:
 (1) 800' x 150' (CONCRETE) - 750' (2)
 (2) 7' x 12' (4) - 400' (2)
 USE 2" DIA. TRENCH AND 10' DIA. SLOTTING BETWEEN TRENCH EDGES
 USE 2" x 12' (4) - 200.00 L.F. x 1.10 = 220.00 L.F. FOR TRENCH
 USE 1" - 60' LONG, TRENCH = 60' L.F.

TRENCH DATA:

TRENCH 1:
 CL. GRADE ABOVE = 511.5
 INV. IN = 509.0
 BOTTOM TRENCH = 502.5

REPLACEMENT TRENCH 2:
 CL. GRADE ABOVE = 510.7
 INV. IN = 502.2
 BOTTOM TRENCH = 502.7

NOTE FOR THE PUMP, TRENCHES AND THE 1ST REPLACEMENT TRENCH:
 TRENCHES, SLOTTING BETWEEN TRENCHES MUST BE 10' FT.



ITT **GOULDS PUMPS** Wastewater

APPLICATIONS

- Effluent systems
- Sewer
- Effluent sludge tanks
- Waste transfer
- Comminuting

PERFORMANCE RATINGS

Model	Capacity (gpm)	Head (ft)
1	10	10
2	20	20
3	30	30
4	40	40
5	50	50
6	60	60
7	70	70
8	80	80
9	90	90
10	100	100

COMPONENTS

- 1/2 HP
- 3/4 HP
- 1 HP
- 1 1/2 HP
- 2 HP
- 3 HP
- 4 HP
- 5 HP
- 6 HP
- 7 HP
- 8 HP
- 9 HP
- 10 HP

MODEL INFORMATION

Model	Capacity (gpm)	Head (ft)	Power (HP)	Material	Weight (lbs)	Dimensions (H x W x D)
EP101A	10	10	1/2	Cast Iron	20	10 x 10 x 10
EP101B	20	20	3/4	Cast Iron	40	10 x 10 x 10
EP101C	30	30	1	Cast Iron	60	10 x 10 x 10
EP101D	40	40	1 1/2	Cast Iron	80	10 x 10 x 10
EP101E	50	50	2	Cast Iron	100	10 x 10 x 10
EP101F	60	60	3	Cast Iron	120	10 x 10 x 10
EP101G	70	70	4	Cast Iron	140	10 x 10 x 10
EP101H	80	80	5	Cast Iron	160	10 x 10 x 10
EP101I	90	90	6	Cast Iron	180	10 x 10 x 10
EP101J	100	100	7	Cast Iron	200	10 x 10 x 10

ITT **GOULDS PUMPS** Wastewater

PERFORMANCE RATINGS

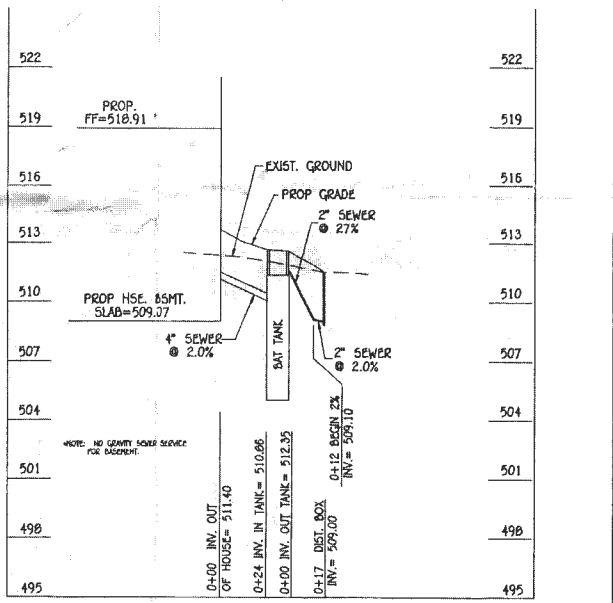
Model	Capacity (gpm)	Head (ft)
1	10	10
2	20	20
3	30	30
4	40	40
5	50	50
6	60	60
7	70	70
8	80	80
9	90	90
10	100	100

COMPONENTS

- 1/2 HP
- 3/4 HP
- 1 HP
- 1 1/2 HP
- 2 HP
- 3 HP
- 4 HP
- 5 HP
- 6 HP
- 7 HP
- 8 HP
- 9 HP
- 10 HP

MODEL INFORMATION

Model	Capacity (gpm)	Head (ft)	Power (HP)	Material	Weight (lbs)	Dimensions (H x W x D)
EP101A	10	10	1/2	Cast Iron	20	10 x 10 x 10
EP101B	20	20	3/4	Cast Iron	40	10 x 10 x 10
EP101C	30	30	1	Cast Iron	60	10 x 10 x 10
EP101D	40	40	1 1/2	Cast Iron	80	10 x 10 x 10
EP101E	50	50	2	Cast Iron	100	10 x 10 x 10
EP101F	60	60	3	Cast Iron	120	10 x 10 x 10
EP101G	70	70	4	Cast Iron	140	10 x 10 x 10
EP101H	80	80	5	Cast Iron	160	10 x 10 x 10
EP101I	90	90	6	Cast Iron	180	10 x 10 x 10
EP101J	100	100	7	Cast Iron	200	10 x 10 x 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 IOWA, LICENSE NO. 1141/14.

Paul W. Kuchel
 PAUL W. KUCHEL
 05-26-15
 DATE

BUILDER/DEVELOPER

RF HOMES
 9720 FUTURE ROAD
 COLUMBIA, MISSOURI 21048
 417-379-7556

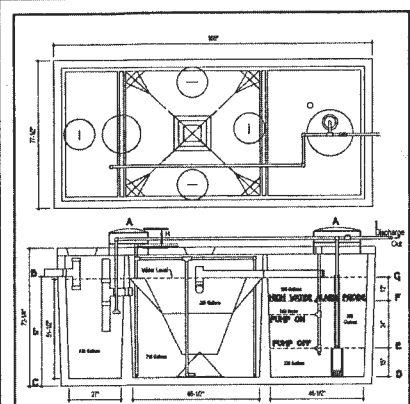
WELL CERTIFICATION:
 THE EXISTING WELL, TAG NO. HO-95-1549, HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.

SITE PLAN FOR BAT INSTALLATION THE WARFIELDS II

14711 LEAR COURT
 LOT 37
 SECTION TWO
 ZONING UC-000

144 PWP NO. 27 ORD. NO. 5 PARCEL NO. 114
 30th ELECTION DISTRICT HOWARD COUNTY, IOWA
 SCALE: AS NOTED DATE: MAY 28, 2015

Approved Septic System Plan
 Howard County Health Department
John Cornwell 10/2/15
 Signature Date



SEPTIC SYSTEM ELEVATIONS

A= 513.40
 B= 510.86 (INV. INTO TANK)
 C= 506.11
 D= 506.44
 E= 507.09
 F= 509.66
 G= 510.89
 H= 512.17 (7' MIN.)
 I= 512.18 (INV. OUT OF TANK)

FF = 510.91
 FZ = 509.07
 INV. OUT OF HOUSE = 511.4
 INV. INTO REPLACEMENT TANK = 509.0
 TOP OF TANK = 512.13
 DRAIN VOLUME = 80 GAL
 TIME FOR USE = 2 HRS
 (See Department of Health Approval #12)

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

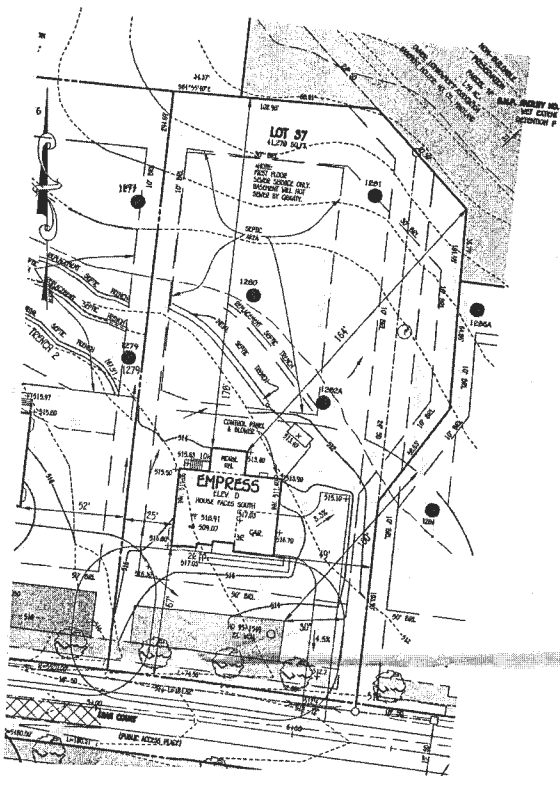
BAT NOTICE

- ANY CHANGE TO THE LOCATION OR SIZE OF ANY COMPONENT PART OF APPROVED BY THE OFFICE AND THE OWNER SHALL REQUIRE PRIOR REVIEW OF REVISIONS. A REVISION WILL NOT BE APPROVED.
- THE PROPOSED HOUSE IS TO HAVE 4 BEDROOMS DESIGNED FOR 5.
- THE HOUSE SHALL BE LOCATED PER THE INV. OUT OF HOUSE AND THE INV. INTO REPLACEMENT TANK.
- THE HOUSE SHALL BE LOCATED PER THE INV. INTO REPLACEMENT TANK AND THE INV. INTO REPLACEMENT TANK.
- THE HOUSE SHALL BE LOCATED PER THE INV. INTO REPLACEMENT TANK AND THE INV. INTO REPLACEMENT TANK.
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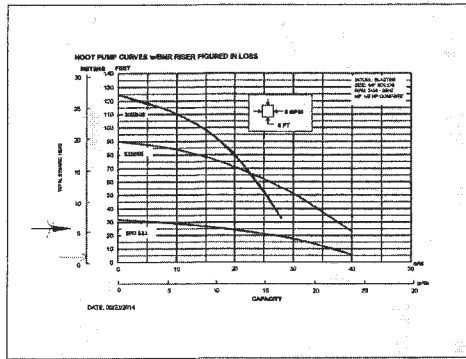
DESIGN DATA & GENERAL NOTES

1. Construct through-out with 4" x 4" x 1/2" gal. steel. Rebar #4.
2. All concrete shall be finished with a smooth surface.
3. All masonry shall be finished with a smooth surface.
4. All masonry shall be finished with a smooth surface.
5. All masonry shall be finished with a smooth surface.
6. All masonry shall be finished with a smooth surface.
7. All masonry shall be finished with a smooth surface.
8. All masonry shall be finished with a smooth surface.
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13. All masonry shall be finished with a smooth surface.
14. All masonry shall be finished with a smooth surface.
15. All masonry shall be finished with a smooth surface.
16. All masonry shall be finished with a smooth surface.
17. All masonry shall be finished with a smooth surface.
18. All masonry shall be finished with a smooth surface.
19. All masonry shall be finished with a smooth surface.
20. All masonry shall be finished with a smooth surface.

Mayer Brothers, Inc.
 600 QPD BNR SYSTEM
 14-00 BNR
 with 760 GALLON PUMP CHAMBER
 Dept. No. Heat Pump #1 No. 2600 March 16, 2003



PLAN
SCALE: 1" = 30'



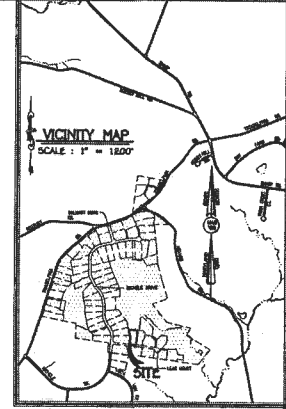
SEPTIC SYSTEM DATA, PROFILE & ELEVATIONS, DESIGN FOR 4 BEDROOMS

PROP. HOUSE AT FOUNDATION WALL: 511.4
 1. FOOT 750 WIDE (FHA NO. 8005-54)
 2. CE. GRADE: 511.50
 3. PROP. GRADE: 511.50
 4. PROP. GRADE: 511.50
 5. PROP. GRADE: 511.50
 6. PROP. GRADE: 511.50
 7. PROP. GRADE: 511.50
 8. PROP. GRADE: 511.50
 9. PROP. GRADE: 511.50
 10. PROP. GRADE: 511.50
 11. PROP. GRADE: 511.50
 12. PROP. GRADE: 511.50
 13. PROP. GRADE: 511.50
 14. PROP. GRADE: 511.50
 15. PROP. GRADE: 511.50
 16. PROP. GRADE: 511.50
 17. PROP. GRADE: 511.50
 18. PROP. GRADE: 511.50
 19. PROP. GRADE: 511.50
 20. PROP. GRADE: 511.50

TRENCH DATA

TRENCH 1:
 CE. GRADE: 511.50
 INV. IN = 509.0
 BOTTOM TRENCH = 503.5
 REPLACEMENT TRENCH 2:
 CE. GRADE: 511.50
 INV. IN = 509.0
 BOTTOM TRENCH = 503.5

NOTE FOR THE TRENCHES AND THE 1ST REPLACEMENT TRENCH:
 TRENCH 1: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 2: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 3: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 4: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 5: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 6: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 7: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 8: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 9: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 10: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 11: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 12: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 13: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 14: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 15: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 16: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 17: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 18: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 19: 12" WIDE x 12" DEPTH x 750 GPM
 TRENCH 20: 12" WIDE x 12" DEPTH x 750 GPM



ITT

GOULDS PUMPS
Wastewater

APPLICATIONS

Specifically designed for the following uses:

- Effluent systems
- Sewage
- Rain
- Heavy duty pump
- Water transfer
- Dewatering

PERFORMANCE DATA

Model	Capacity (GPM)	Head (ft)
100	10	10
150	15	15
200	20	20
250	25	25
300	30	30
350	35	35
400	40	40
450	45	45
500	50	50
550	55	55
600	60	60
650	65	65
700	70	70
750	75	75
800	80	80
850	85	85
900	90	90
950	95	95
1000	100	100

MODELS INFORMATION

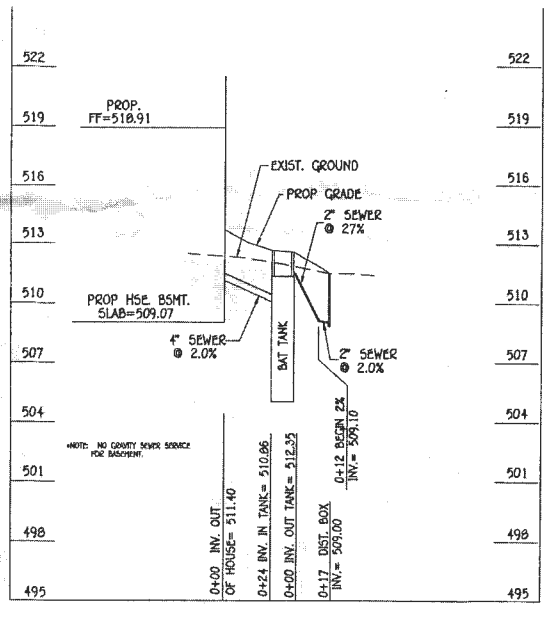
Model No.	Capacity (GPM)	Head (ft)	Material	Weight (lbs)	Dimensions (H x W x D)
100	10	10	Cast Iron	15	10 x 10 x 10
150	15	15	Cast Iron	20	15 x 15 x 15
200	20	20	Cast Iron	25	20 x 20 x 20
250	25	25	Cast Iron	30	25 x 25 x 25
300	30	30	Cast Iron	35	30 x 30 x 30
350	35	35	Cast Iron	40	35 x 35 x 35
400	40	40	Cast Iron	45	40 x 40 x 40
450	45	45	Cast Iron	50	45 x 45 x 45
500	50	50	Cast Iron	55	50 x 50 x 50
550	55	55	Cast Iron	60	55 x 55 x 55
600	60	60	Cast Iron	65	60 x 60 x 60
650	65	65	Cast Iron	70	65 x 65 x 65
700	70	70	Cast Iron	75	70 x 70 x 70
750	75	75	Cast Iron	80	75 x 75 x 75
800	80	80	Cast Iron	85	80 x 80 x 80
850	85	85	Cast Iron	90	85 x 85 x 85
900	90	90	Cast Iron	95	90 x 90 x 90
950	95	95	Cast Iron	100	95 x 95 x 95
1000	100	100	Cast Iron	105	100 x 100 x 100

ITT

GOULDS PUMPS
Wastewater

COMPONENTS

Part No.	Description
1	Motor
2	Impeller
3	Frame
4	Frame Cover
5	Frame Mount
6	Frame Base
7	Frame Feet
8	Frame Guard
9	Frame Cover
10	Frame Mount
11	Frame Base
12	Frame Feet
13	Frame Guard
14	Frame Cover
15	Frame Mount
16	Frame Base
17	Frame Feet
18	Frame Guard
19	Frame Cover
20	Frame Mount
21	Frame Base
22	Frame Feet
23	Frame Guard
24	Frame Cover
25	Frame Mount
26	Frame Base
27	Frame Feet
28	Frame Guard
29	Frame Cover
30	Frame Mount
31	Frame Base
32	Frame Feet
33	Frame Guard
34	Frame Cover
35	Frame Mount
36	Frame Base
37	Frame Feet
38	Frame Guard
39	Frame Cover
40	Frame Mount
41	Frame Base
42	Frame Feet
43	Frame Guard
44	Frame Cover
45	Frame Mount
46	Frame Base
47	Frame Feet
48	Frame Guard
49	Frame Cover
50	Frame Mount
51	Frame Base
52	Frame Feet
53	Frame Guard
54	Frame Cover
55	Frame Mount
56	Frame Base
57	Frame Feet
58	Frame Guard
59	Frame Cover
60	Frame Mount
61	Frame Base
62	Frame Feet
63	Frame Guard
64	Frame Cover
65	Frame Mount
66	Frame Base
67	Frame Feet
68	Frame Guard
69	Frame Cover
70	Frame Mount
71	Frame Base
72	Frame Feet
73	Frame Guard
74	Frame Cover
75	Frame Mount
76	Frame Base
77	Frame Feet
78	Frame Guard
79	Frame Cover
80	Frame Mount
81	Frame Base
82	Frame Feet
83	Frame Guard
84	Frame Cover
85	Frame Mount
86	Frame Base
87	Frame Feet
88	Frame Guard
89	Frame Cover
90	Frame Mount
91	Frame Base
92	Frame Feet
93	Frame Guard
94	Frame Cover
95	Frame Mount
96	Frame Base
97	Frame Feet
98	Frame Guard
99	Frame Cover
100	Frame Mount



SEPTIC SYSTEM PROFILE
SCALE: HORIZ. 1" = 30'
VERT. 1" = 5'

Approved Septic System Plan
 Howard County Health Department
 Signature: _____ Date: _____

PERKINS COLLINS & CHAPPEL INC.
 ARCHITECTURAL, ENGINEERING & LAND SURVEYING
 1100 W. 10th Street, Suite 100
 Des Moines, IA 50319
 (515) 281-1000

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA AND LICENSE NO. 15241, EXPIRES 05/26/15.

Paul W. Johnson
 PAUL W. JOHNSON
 05-26-15
 DATE



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

BUILDER/DEVELOPER
 INV. HOPES
 9700 Filwood Woods
 COLUMBIA, MARYLAND 21046
 410-371-9956

SITE PLAN FOR BAT INSTALLATION
THE WARFIELDS II
 14711 LEAR COURT
 LOT 37
 SECTION TWO
 ZONING: RC-100
 TAX MAP NO. 27 GRID NO. 5 PARCEL NO. 114
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS NOTED DATE: MAY 26, 2015

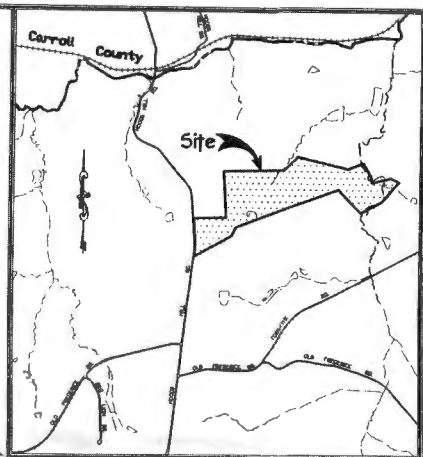
SOILS LEGEND		
SOIL	NAME	CLASS
HuSd	Highbank silt loam, 3 to 6 percent slopes, moderately eroded	D
HuS	Highbank and silt loam, very stony, silt loam, 3 to 25 percent slopes	B
CE1	Carney loam, 6 to 15 percent slopes, severely eroded	B
CE2	Carney loam, 3 to 6 percent slopes, moderately eroded	B
LaC2	Lady silt loam, 6 to 15 percent slopes, moderately eroded	D
ESd2	Essex silt loam, 3 to 6 percent slopes, moderately eroded	D
FR2	Forest loam, 3 to 6 percent slopes, moderately eroded	D
HuS3	Highbank silt loam, 15 to 25 percent slopes, severely eroded	B
HuS	Highbank very stony loam, 3 to 25 percent slopes	D
CoB	Cornus silt loam, local silt loam, 3 to 6 percent slopes	D
HC1	Honor loam, 6 to 15 percent slopes, severely eroded	B
CE2	Carney loam, 6 to 15 percent slopes, moderately eroded	D
FR3	Forest silt loam, 6 to 15 percent slopes, moderately eroded	D
LaS2	Lady silt loam, 3 to 6 percent slopes, moderately eroded	D
CE2	Carney silt loam, 3 to 6 percent slopes, moderately eroded	B
CE2	Carney loam, 6 to 15 percent slopes, moderately eroded	B
CH2	Chenier silt loam, 3 to 6 percent slopes, moderately eroded	D
HuF	Highbank very stony loam, 25 to 60 percent slopes	D
FR	Forest loam, 25 to 45 percent slopes	D
Hu	Highbank silt loam	D
CE2	Carney loam, 15 to 25 percent slopes, moderately eroded	D
LaC3	Lady silt loam, 6 to 15 percent slopes, severely eroded	B

LEGEND

- EXISTING E CONTOURS
- EXISTING W CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- DENOTES PROPOSED WELL
- DENOTES PAVED PERC
- DENOTES PROPOSED PERC
- DENOTES PROPOSED HOUSE
- DENOTES 15%-24% SLOPES
- DENOTES 25% AND GREATER SLOPE
- DENOTES 15% SLOPE ALTERNATE WELL SITE

NOTES:

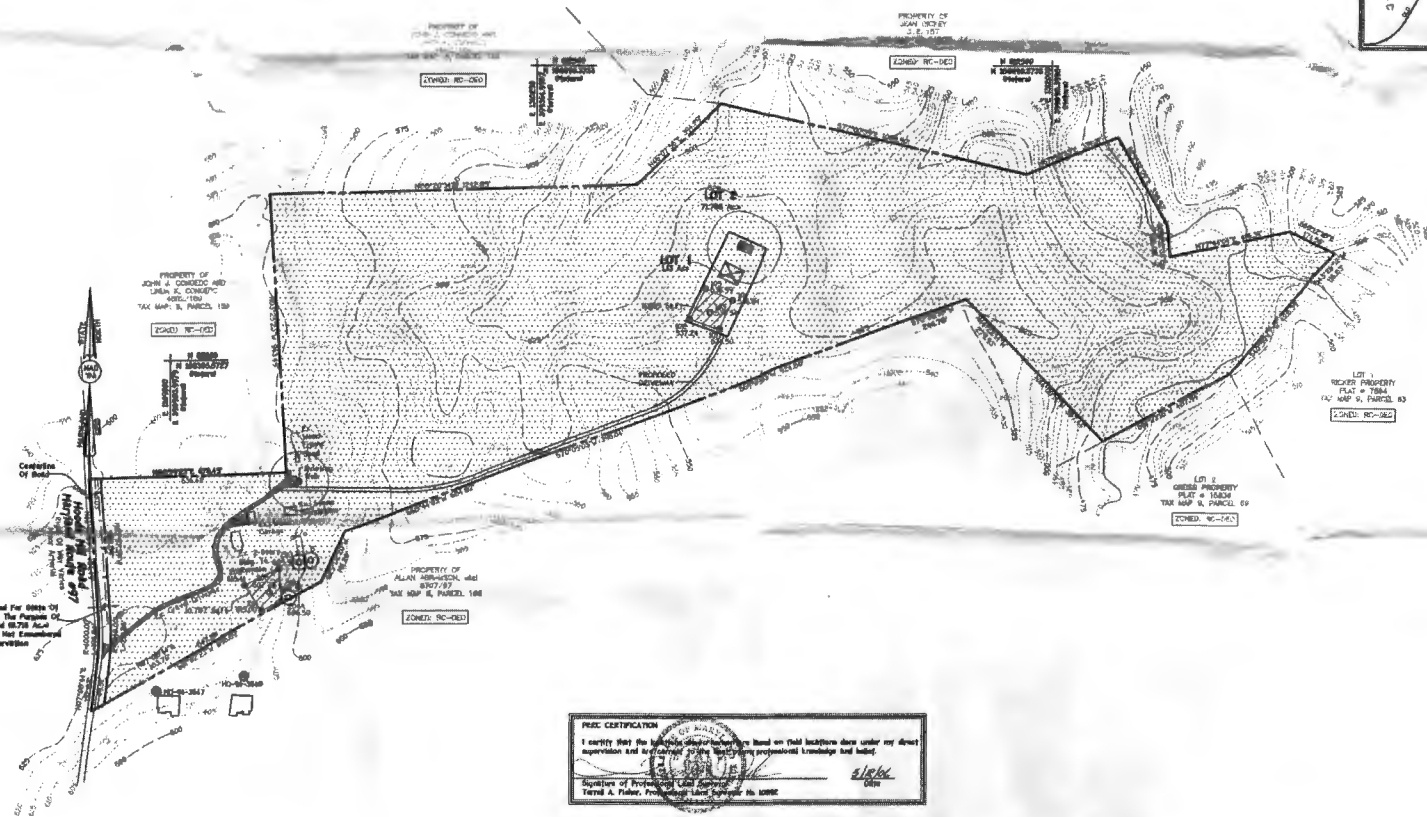
- * Hydraulic conductivity and/or permeability indications
- ** Field capacity hydraulic indications
- † Generally very stony 100-pair (fingering) areas



Vicinity Map
Scale 1"=1200'

GENERAL NOTES:

- THIS AREA DESIGNATES A PRIVATE WASTEWATER EASEMENT OF 1000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA AND EXCEPT WHERE SHOWN OTHERWISE, THESE ARE TO BE CONSIDERED AS A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICE SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE SEWERAGE EASEMENT, REVISIONS OF A PROPOSED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
- ADJUSTMENTS TO SEWER EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
- THE LOT SHOWN HEREIN COMPLEES WITH THE HERRICK OWNERSHIP WITH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 500 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE MOST AVAILABLE INFORMATION.
- ALL WELLS, 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 SIGNATURE OF THE RECORD PLAT.
- TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY OR TOPOGRAPHY AT 5' CONTOUR INTERVAL, INTERPOLATED FOR 1' CONTOUR INTERVAL.
- BOUNDARY OUTLINE BASED ON FIELD BOUNDARY SURVEY PERFORMED ON OR ABOUT JUNE, 2008 BY EAST-PRECISION AND WALKER.
- DEED REFERENCE: LIBER 3070 FOLIO 63



PERC CERTIFICATION

I certify that the hydrologic data and/or test results shown on this certificate were under my direct supervision and to the best of my knowledge and belief.

Signature of Professional Engineer: *[Signature]*
 Title: Professional Engineer No. 10086

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT.

Signature: *[Signature]*
 Title: County Health Officer

PERC CERTIFICATION PLAT
ROSE HILL FARM, LLC
LOT 1 AND 2

Zone RC-100
 The Map is Prepared in Accordance with the Maryland State Department of the Environment, Howard County, Maryland.

Scale: 1"=1200'
 Date: 10/18/2008
 Sheet 1 of 1

Owner:
 Rose Hill Farm, LLC
 226 W. 8 Hwy. David and Barbara Coombs
 WY 8045 97
 Coaldale, Maryland 21722

Developer:
 P. A. H. Coombs Architects, P.
 2455 Tidewater Road
 Glenwood, Maryland 21737

SIGNED PERC CERT 5/22/16

FSHER, COLLINS & CARTER, INC.
 2000 W. 8 Hwy. Suite 100
 P.O. Box 1000
 Glenwood, Maryland 21737