

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: 12/5/14 **ONSITE SEWAGE DISPOSAL SYSTEM** P 555330-A

INSTALLATION APPROVAL DATE: 3/2/15 (Kme) **PERMIT** A _____
CONSTRUCTION

PROPERTY ADDRESS: 11115 Old Homewood Road
 SUBDIVISION: Homewood Crossing LOT: 68 TAX ID: _____
 CONTRACTOR: Fogle's Septic Clean Inc. EMAIL: kevin@foglesinc.com
 CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784 PHONE: 410-795-5670
 PROPERTY OWNER: Toll Brothers EMAIL: _____
 OWNER ADDRESS: 14881 Meriwether Drive, Glenelg, MD 21737 PHONE: 301-418-1923

BAT UNIT MODEL: ECOPOD E60NCA PUMP SIZE: _____ PUMP TANK CAPACITY: 600GPD
 DISTRIBUTION SYSTEM: GRAVITY LOW PRESSURE DOSED NUMBER OF BEDROOMS: _____

TRENCHES:	LINEAR FEET REQUIRED: <u>SEE BAT PLAN 180'</u>	INLET DEPTH: <u>SEE BAT PLAN 4'</u>
	TRENCH WIDTH: <u>SEE BAT PLAN 3'</u>	MAXIMUM BOTTOM DEPTH: <u>SEE BAT PLAN 7'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>SEE BAT PLAN 9'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>SEE BAT PLAN 5.5'</u>
	LOCATION: PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Install BAT system per plan.	

ISSUED BY: Jeff Williams ISSUE DATE: 12/5/14 EXPIRATION DATE: 12/5/15

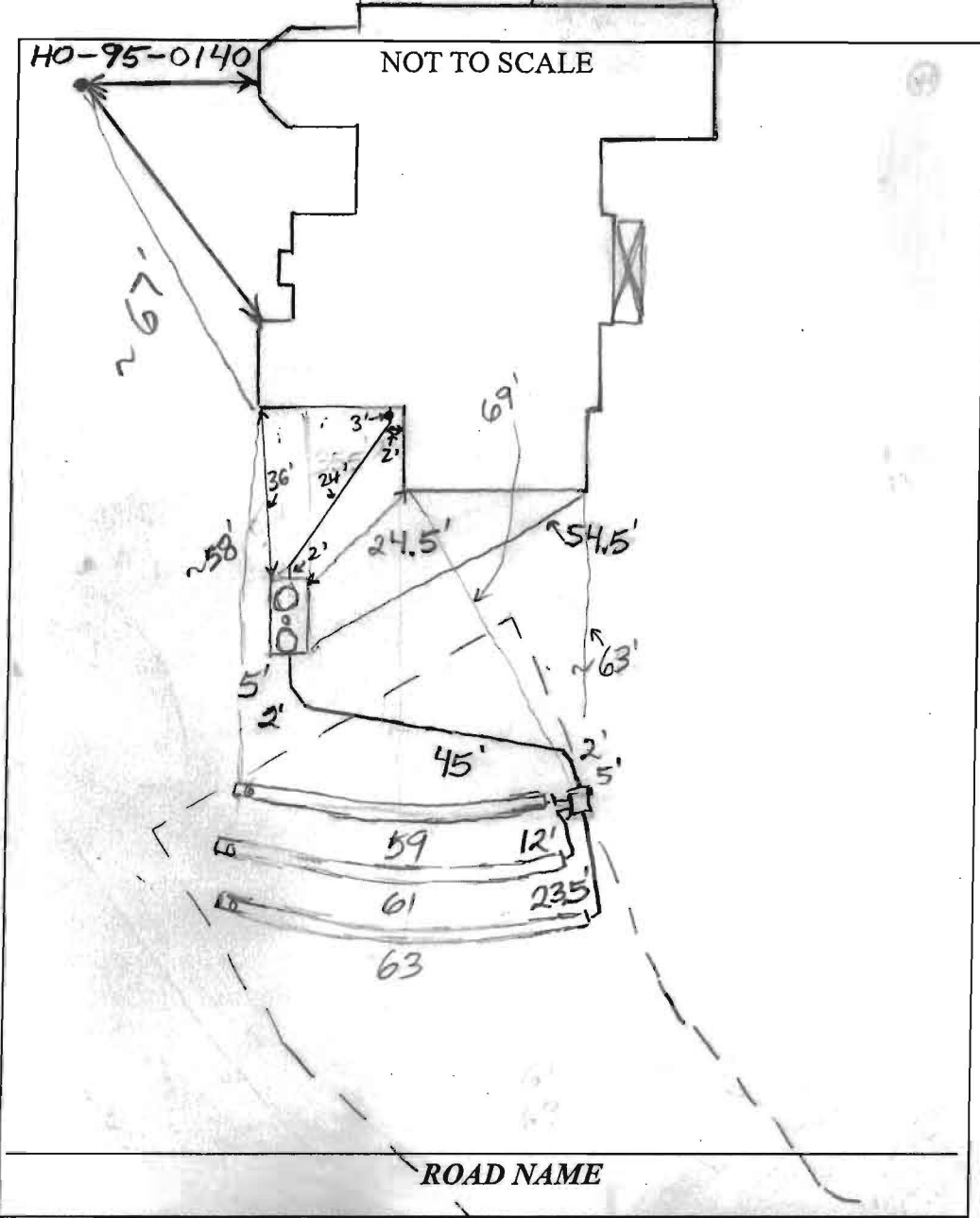
- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION**
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM**
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.**
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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

DRIVEWAY

HO-95-0140

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	7'
NUMBER OF TRENCHES <u>3</u>		
TOTAL LENGTH _____		
ABSORPTION AREA _____		
DISTRIBUTION BOX LEVEL <u>Levelers</u>		
DISTRIBUTION BOX BAFFLE <u>Yes</u>		
DISTRIBUTION BOX PORT <u>Yes</u>		

SEPTIC TANK DATA

SEPTIC TANK I LEVEL Yes

MANUFACTURER Babylon-Ecopod

CAPACITY 2000 GAL

SEAM LOC Top

TANK LID DEPTH 1-1.5'

BAFFLES Need Front

BAFFLE FILTER N/A

MANHOLE LOC Front + Rear

6" PORT LOC Middle

WATERTIGHT TEST No

SLOTTED N/A

DATE ON LID 12/7/2014

PUMP/SEPTIC TANK LEVEL N/A

MANUFACTURER _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH _____

BAFFLES _____

BAFFLE FILTER _____

MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED _____

DATE ON LID _____

PRE-CONSTRUCTION:

1/8/2015 I install three 60' trenches on contour across the uppermost part of the septic easement. Set the tank and dist. box similar to plan. (BB)

INSTALLATION: 1/13/15 visited site for follow-up. Only work completed was the hole dug for the tank. (SC/BB)

1/15/2015 Tank and distribution box set. (BB)

1/16/2015 Need house connection and alarm

1/28/15 House connection made. Needs BAT startup certification. (SC) 2/20/15 BAT startup and pump alarm with Kevin from Fogles. All works well. (SC)

FINAL INSPECTOR

f. way

DATE OF APPROVAL

3/2/15

e3 Environmental LLC

302-775-0788 www.e3onsite.com

ECOPOD-N Completion Statement

Installation Information

Owners Name		# of Bedrooms / GPD	<u>600</u>
Street	<u>11115 Homewood Rd</u>	Repair	<input type="checkbox"/>
City	<u>Ellicott City</u>	New Construction	<input checked="" type="checkbox"/>
State	<u>MD</u>		
Zip			

Installation Company

Company	<u>Fogles</u>	Installed Date	<u>1/1/15</u>
Certified Installer	<u>Matt Cooney</u>	Startup Date	<u>2/13/15</u>
Street	<u>Obrecht Rd</u>		
City	<u>Sykesville</u>		
State	<u>MD</u>		
Zip			

ECOPOD-N

Model #	Serial #
E50 <input type="checkbox"/>	
E60 <input checked="" type="checkbox"/>	<u>E60N-62238-CA</u>
E75 <input type="checkbox"/>	
E100 <input type="checkbox"/>	
E150 <input type="checkbox"/>	

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

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

Company Babyloni Vault Co
Signature Steven R Koontz
Printed Name Steven R Koontz

Date 3/2/15

Fax or email completed form to e3 Environmental at 302-258-0706 or ericv@e3onsite.com

MEMBER N. C. B. V. A.

MEMBER P. C. B. V. A.

Babylon

V A U L T
S I N C E 1 9 3 0

Burial Vaults - Septic Tanks

PHONE:
410-848-0393

FAX:
410-848-3551

925 WAKEFIELD VALLEY ROAD
NEW WINDSOR, MD 21776

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

Brand Name: <u>ECOPOD</u>	Model Number: <u>ECOPOD 60</u>
Purchase Date: <u>2-24-15</u>	Serial Number: <u>E-6001 02238CA</u>

INITIAL POLICY:

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

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

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

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

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

PERMITTING AUTHORITY:

Howard

SYSTEM OWNER:

INSTALLATION LOCATION:

11115 Homewood Rd
Ellicott City MD

DISTRIBUTOR:

Babylon Vault Co.

INSTALLER:

Fogles
Obrecht Rd
Sylkesville MD

SERVICE COMPANY:

Steven Koontz C.M

Service Operators License Number: _____

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

/itness: _____

1115 Old
Home
wood
ct

Clerk of the Circuit Court for
Howard County
Land Records/Licensing

The Thomas Dorsey Building
9250 Bendix Road
Columbia, MD 21045
410-313-5850

=====
LR - Agreement Recording Fee
1x 20.00 20.00

Grantor/Grantee Name: Toll MD III
Reference/Control #: 131

LR - Agreement Surcharge
1x 40.00 40.00

=====
SubTotal: 80.00
Total: 80.00
=====

REV-Check-BOA 60.00
Number : 09487697

10/28/2014 14:04 CC13-KD
#3466085 /1342/109

~ Thank you for visiting us today ~

Toll Bros., Inc

250 GIBRALTAR ROAD
HORSHAM, PA 19044
215-938-8000

Check No. - 9487697

Check Date - 10/13/14

Stub 1 of 1

INVOICE NO	INVOICE DATE	COMMENT	GROSS	DEDUCTIONS	AMOUNT PAID
FEE1498/0051	101014	HEALTH DEPT DOCS LOT 51	60.00		60.00

See Reverse Side For Easy Opening Instructions

Toll Bros., Inc
250 GIBRALTAR ROAD
HORSHAM, PA 19044

CLERK OF THE COURT
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Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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 28th day of October 2014, among TOLL MD III, hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

11115 WHEREAS, Owner is the owner or contract owner of a parcel of land located at Old Homewood Ct Ellicott City, 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 9808 Folio 207.

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 System.

NOW, THEREFORE, the parties hereto agree as follows:

Ecopod ELON

- A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County to develop accurate and thorough test results.
B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.
C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.
D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.
E. This agreement shall run with the land and upon Owner's taking title to the Lot shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Lot that the system shall require

maintenance or other attention. Upon taking title to the Lot, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

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

H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

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

J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

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

Ben Ripen 10/28/17
Howard County Health Department

[Signature] 10/10/17
Owner #1 Signature Date

David Erab
Owner #1 Print Name

Owner#2 Signature Date

Owner #2 Print Name

[Signature] _____
Buyer #1 Signature Date P.D.A.

Buyer #2 Signature Date

Buyer #1 Print Name

Buyer #2 Print Name

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/15.

- HOUSE OPTIONS:**
- OPTION No. 018 THE NATIONAL (GEORGIAN)
 - OPTION No. 023 LIGHT BASHERS
 - OPTION No. 026 EXPANDED FAMILY ROOM/GREAT ROOM
 - OPTION No. 039 PALM BEACH SUNROOM ADDITION
 - OPTION No. 070 CONSERVATORY ELITE ADDITION
 - OPTION No. 070 ADD'L 1' HEIGHT TO BASEMENT FOUNDATION WALLS
 - OPTION No. 070 MAPLES SUNROOM ADDITION

- LEGEND:**
- PERC TEST LOCATION
 - WELL LOCATION
 - LIMITS OF DISTURBANCE
 - TOP OF WALL
 - TW GARAGE FLOOR
 - GF BASEMENT FLOOR
 - BF BUILDING RESTRICTION LINE
 - BRL



VICINITY MAP
1" = 1000'

GENERAL NOTES:

- THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 2/2/04 COMPREHENSIVE ZONING PLAN AND PER COMP-LITE ZONING REGULATIONS DATED 7/28/06.
- PLAT REFERENCE: PLAT No. 18245.
- THE EXISTING TOPOGRAPHY WITHIN THE AREA OF PROPOSED WORK IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY ESE DATED 5/10/11.
- SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND DESIGN DETAILS. PRIOR TO STAKEOUT FOR CONSTRUCTION, IT SHALL BE THE OWNER/BUILDERS RESPONSIBILITY TO PROVIDE ESE CONSULTANTS INC. WITH THE MOST RECENT SET OF HOUSE PLANS.
- THE CONTRACTOR OR DEVELOPER SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT (410-313-1881) AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TOTAL LIMIT OF DISTURBANCE: 34,777 SQ. FT. / 0.80 AC.±
- STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY PREVIOUSLY APPROVED PLAN F-05-069.
- ANY DAMAGE TO PUBLIC "RIGHT-OF-WAYS" OR PAVED PUBLIC ROADS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER (ESE) MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- THE DIMENSIONED DISTANCES SHALL GOVERN IF SCALED AND DIMENSIONED DISTANCES ON THIS PLAN ARE FOUND TO BE IN DISAGREEMENT.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM LOT AREA AND OWNERSHIP WIDTH AS REQUIRED BY THE WARTLAND DEPARTMENT OF THE ENVIRONMENT.
- THESE AREAS DESIGNATE A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA. ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON THE AUTHORITY OF A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDED OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
- EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- UPON BUILDING PERMIT REVIEW THE SEPTIC SYSTEMS FOR ALL PROPOSED STRUCTURES AND/OR EXISTING STRUCTURE EXPANSIONS SHALL BE RE-EVALUATED TO DETERMINE SUFFICIENT SYSTEM CAPACITY.
- THE DEVELOPMENT OF THIS LOT DOES NOT REQUIRE AN ENVIRONMENTAL CONCEPT PLAN SINCE STORMWATER MANAGEMENT WAS PREVIOUSLY APPROVED UNDER F-05-069.
- A STANDARD SEDIMENT CONTROL PLAN MAY BE USED FOR DEVELOPMENT OF THIS LOT. REFERENCE GRADING PLAN GP-14-034, DATED 10/30/13.
- EXISTING WELLS(S) SHOWN ON THIS PLAN IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-0140 HAS BEEN FIELD LOCATED BY ESE CONSULTANTS - PROFESSIONAL LAND SURVEYOR(S), AND IS ACCURATELY SHOWN.
- BUILDING SETBACKS (B.R.L.'S) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "E" HAVE AN ACCURACY OF ±0.1' FOOT.
- NO CULVERT NEEDED FOR THIS LOT.

SEWAGE DISPOSAL SYSTEM DATA (4 BDRM)

PROPOSED INVERT AT FOUNDATION WALL: 468.7

1. EGO ECOPOD SYSTEM
EX. GRADE OVER TANK: 471.0
PROPOSED GRADE OVER TANK: 471.5
INVERT IN: 467.8' INVERT OUT: 467.5'

2. DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 471.0
PROPOSED GRADE OVER TANK: 471.0
INVERT IN: 467.3' INVERT OUT: 467.0'

3. TRENCH DESIGN (4 BDRM x 150 GPD/BDRM = 600 GPD)
600 GPD + 0.5 APP. RATE = 750 SF
USE 3" WIDE TRENCH WITH 36" GRAVEL BELOW PIPE
9" MIN. SPACING BETWEEN TRENCH EDGES
750 SF x 3" WIDTH = 250 LF x 0.71 = 177.50 LF MIN. TRENCH
USE 4' 45" LONG TRENCHES = 180 LF

TRENCH DATA

TRENCH	GROUND ABOVE	GROUND BELOW	BOTTOM TRENCH
TRENCH 1 (1)	470.9'	466.9'	463.7'
TRENCH 2 (12)	470.7'	466.7'	463.7'
TRENCH 3 (13)	470.5'	466.5'	463.5'
TRENCH 4 (14)	470.3'	466.3'	463.3'

- SEPTIC SYSTEM / BEST AVAILABLE TECHNOLOGY (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 REVISED SITE PLAN MAY BE REQUIRED.
 - THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET COVER.
 - 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 MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
 - ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
 - AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN THE LAND RECORDS OF HOWARD COUNTY.
 - THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

APPROVED: FOR HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE

DIRECTOR

DATE

PROFESSIONAL ENGINEER

DATE

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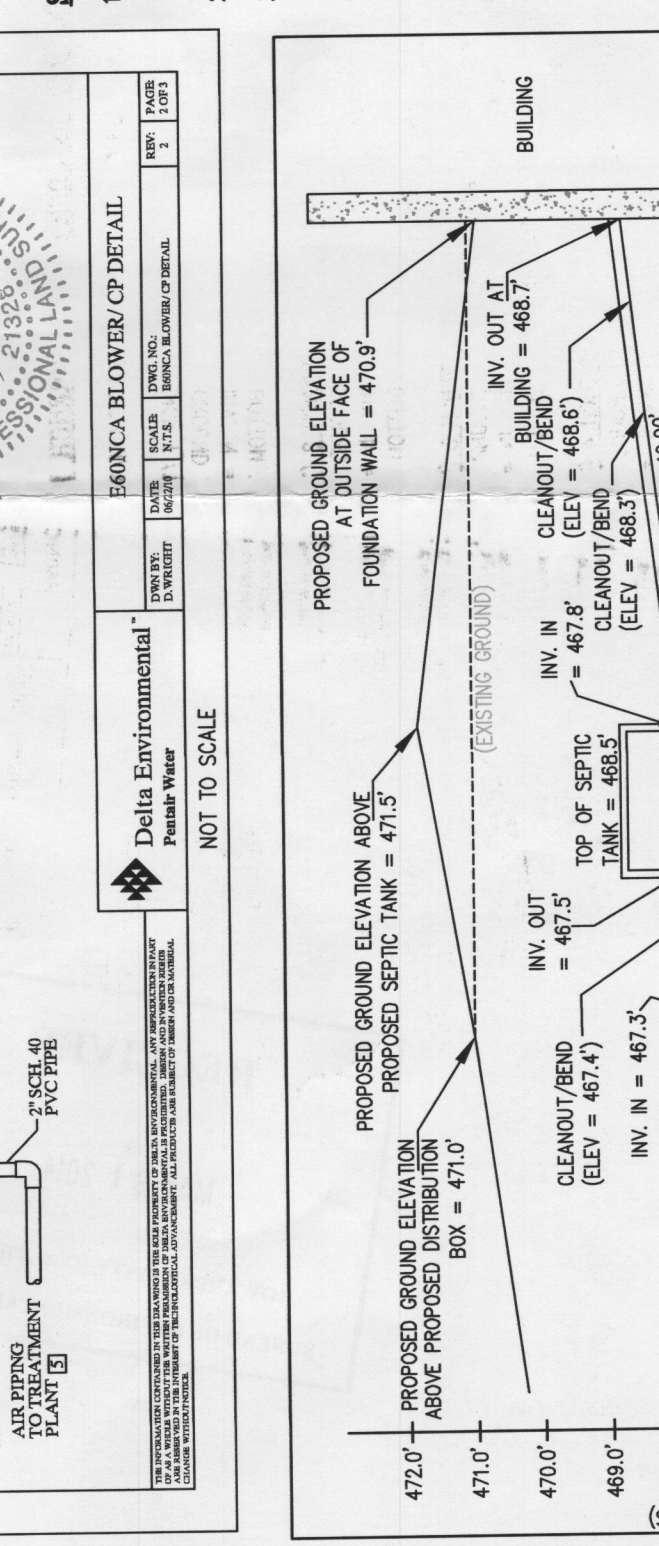
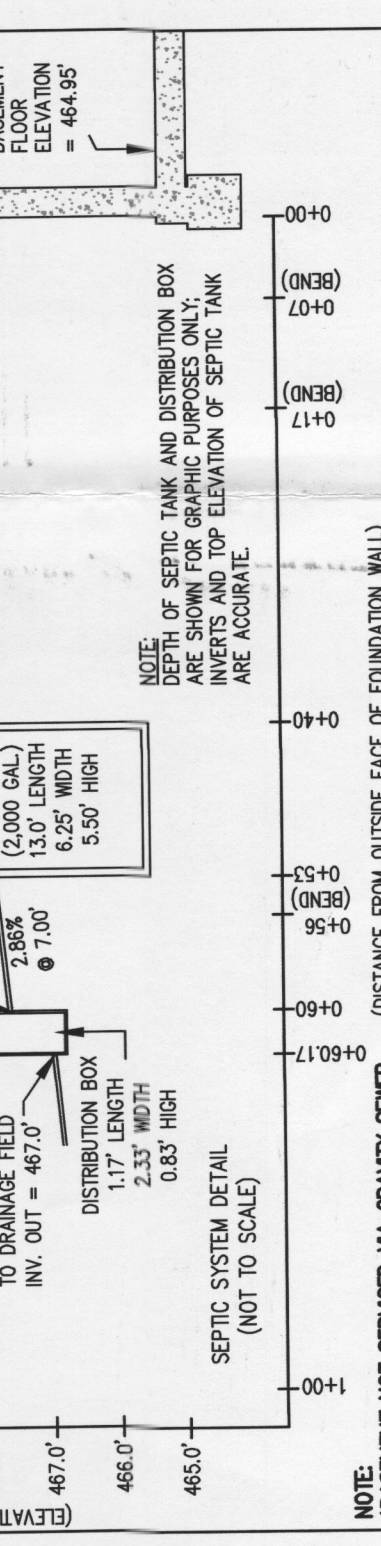
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NOTES:

- Blower piping to ECOPOD not to exceed 100 FT. total length in the piping system. For distances greater than 100 FT, consult factory. Blower must be located above finish grade or on a solid base. Cap on vent must be secured with a stainless steel screw.
- All other tanks from ECOPOD must conform to applicable country, state, province, and local plumbing and electrical codes. The primary airtight compartment volume must be 1 to 2 times the volume of the secondary compartment. The primary tank may be integrated with the reactor tank or stand alone in a separate tank. All manways, vents, and access, and vents must be secured to prevent accidental or unauthorized access.
- ECOPOD media is recommended to be atleast 18" from bottom of tank. Disrupter not 18" need factory approval.
- ECOPOD media EVISPV224
- Tanks with higher inlets, install SCH 40 PVC pipe over legs to elevate reactor to correct height.
- Air supply line should be secured with non-corrosive clamps where required to prevent vibration damage.
- Effluent discharge level must be at a height no more, or no less than 2" above vertical tube PVC media.
- Use epoxy for any weather approved method or substance to create airtight connection & watertight seal (TYP).
- Risers must conform to country, state, province, and local acceptable codes. Fiberglass riser shown.

600 GPD TREATMENT UNIT

Discharge From Tank	4-9"
Reactor Volume	840 Gallons
Recommended Distance Under Reactor Box	18"

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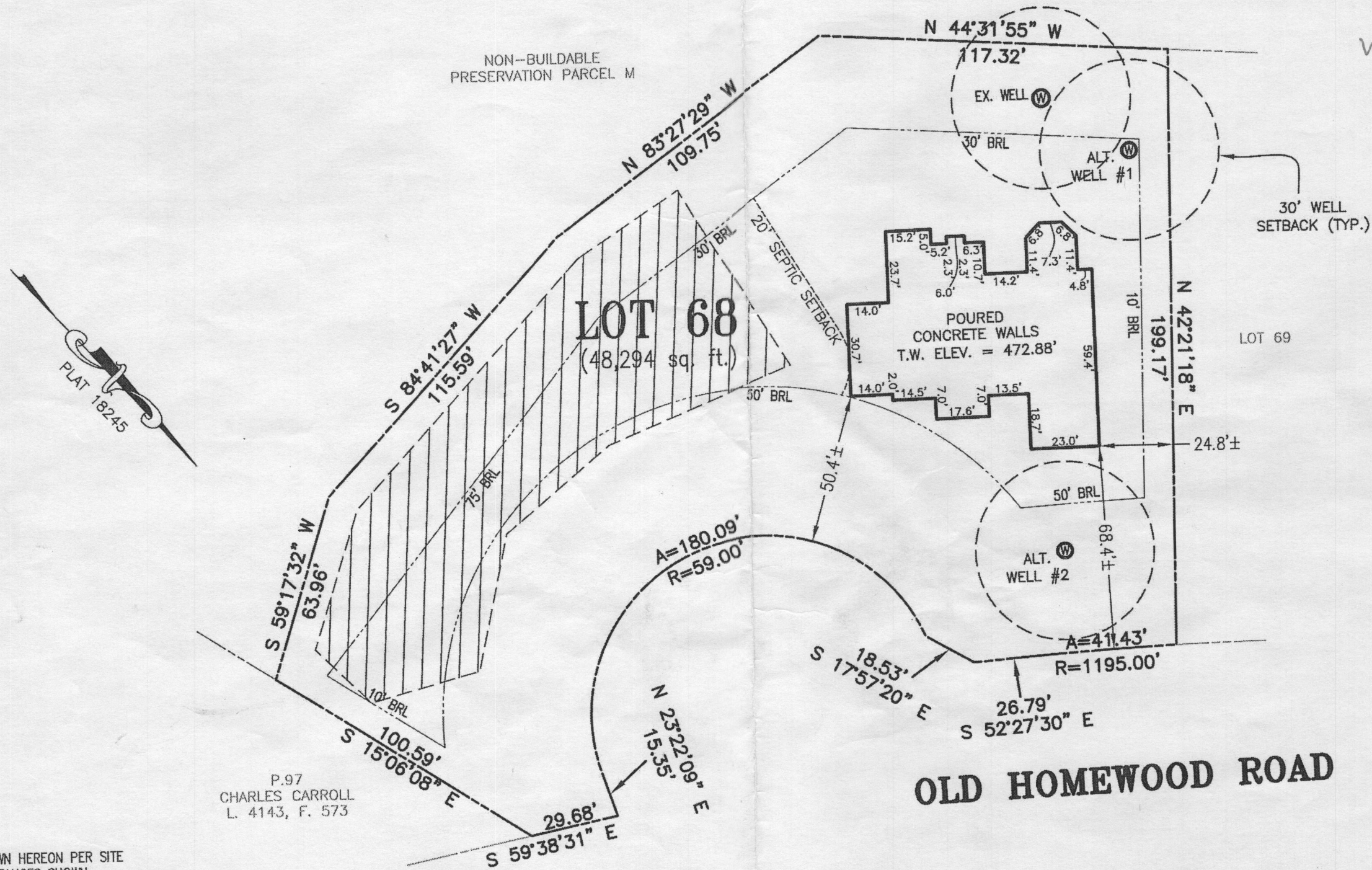
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LEGEND:
 BRL BUILDING RESTRICTION LINE
 T.W. TOP OF WALL
 ELEV. ELEVATION



Wall check
 Okay - H.O.
 12/5/14

= SEPTIC AREA

P.97
 CHARLES CARROLL
 L. 4143, F. 573

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPEMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.

ADDRESS: 1115 OLD HOMEWOOD COURT
 ELLICOTT CITY, MD 21043

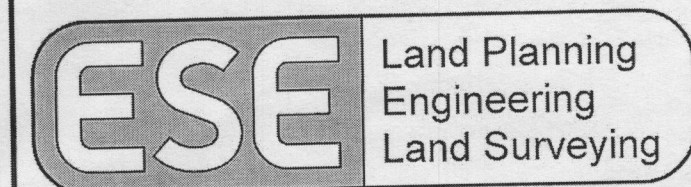
SURVEYOR'S CERTIFICATE

THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHT-OF-WAYS, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED. THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.



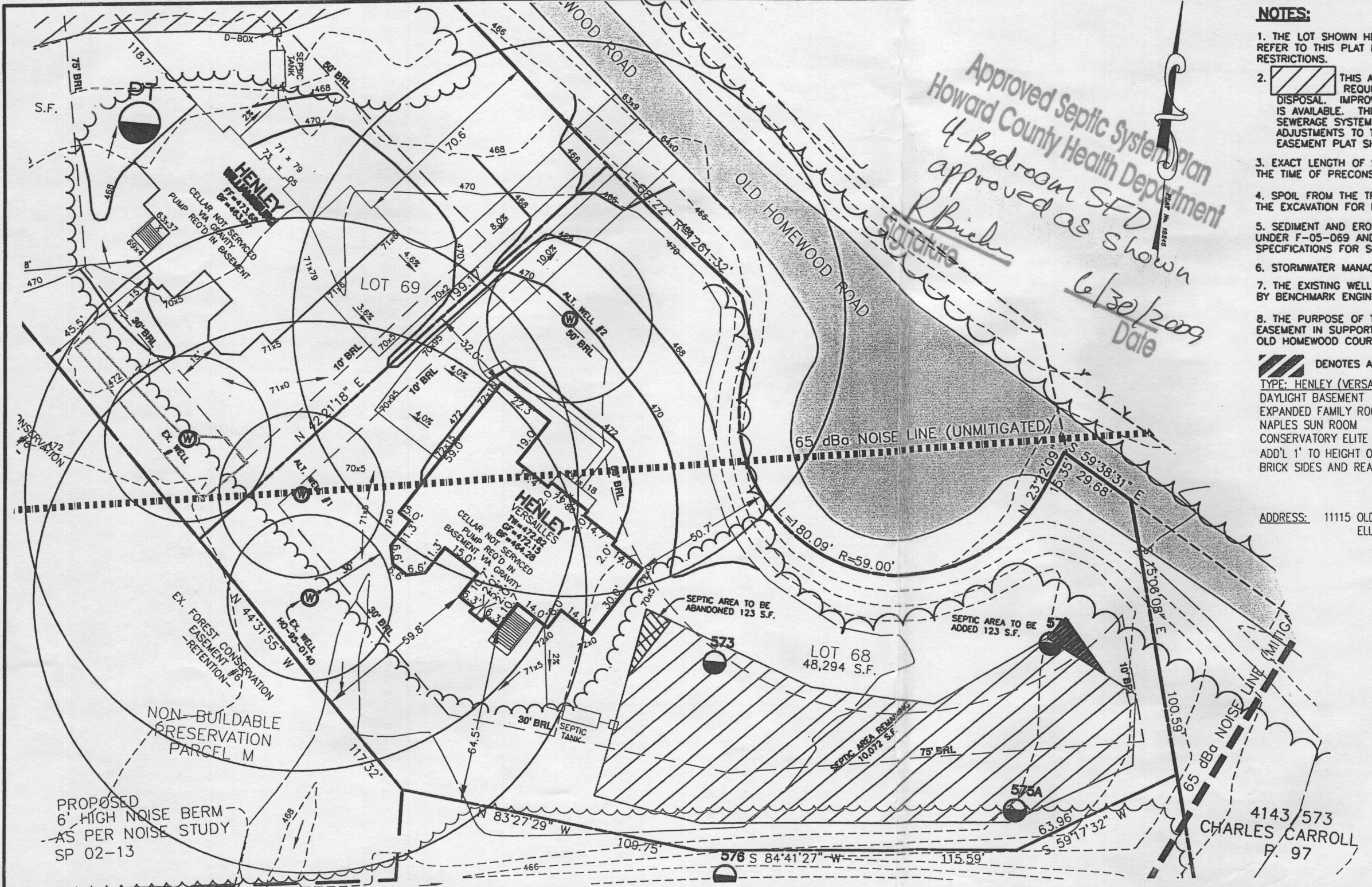
SIGNATURE: MICHAEL JOE BOYCE
 21328 MD. LIC NO.
 09/08/14 DATE

WALLCHECK
 LOT 68
HOMWOOD CROSSING
 LIBER 9808, FOLIO 204
 PLAT NO. 18245
 ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND



ESE Consultants, Inc.
 7164 Columbia Gateway Dr.
 Columbia, MD 21046
 Tel: 410-872-9105
 Fax: 410-872-4870

DATE: 09/08/14 SCALE: 1"=40' FILE: WC LOT 68
 CHK'D: M.J.B. JOB NO: 1214 DRAWN: R.C.K.



NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED ON MAY 2, 2006 AS PLAT NUMBER 18245. REFER TO THIS PLAT FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND BUILDING RESTRICTIONS.
2. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT 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 PLAT SHALL NOT BE NECESSARY.
3. EXACT LENGTH OF SEPTIC TRENCHES ARE BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF PRECONSTRUCTION INSPECTION.
4. SPOIL FROM THE TRENCHING OF THE SEPTIC AREA IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION FOR EACH INDIVIDUAL LOT.
5. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT UNDER F-05-069 AND GP-07-067 AND SHALL COMPLY WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
6. STORMWATER MANAGEMENT FOR THIS LOT WAS PROVIDED UNDER F-05-069.
7. THE EXISTING WELL (TAG NO. HO-95-0140) SHOWN ON THIS PLAN HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC. AND IS ACCURATELY SHOWN.
8. THE PURPOSE OF THIS PERCOLATION CERTIFICATION PLAN IS TO ADJUST THE SEPTIC EASEMENT IN SUPPORT OF A BUILDING PERMIT APPLICATION FOR NEW CONSTRUCTION AT 11115 OLD HOMEWOOD COURT, ELLICOTT CITY, MARYLAND 21043.

Approved Septic System Plan
 Howard County Health Department
 4-bedroom SFD
 approved as shown
R. Biehn
 Signature
 6/30/2009
 Date

DENOTES AREA TO BE ADDED TO SEPTIC AREA
 TYPE: HENLEY (VERSAILLES)-
 DAYLIGHT BASEMENT
 EXPANDED FAMILY ROOM
 NAPLES SUN ROOM
 CONSERVATORY ELITE
 ADD'L 1' TO HEIGHT OF BASEMENT
 BRICK SIDES AND REAR OF HOME

OPTION No. 018
OPTION No. 023
OPTION No. 529
OPTION No. 039
OPTION No. 070
OPTION No. 673

ADDRESS: 11115 OLD HOMEWOOD COURT
 ELLICOTT CITY, MD 21043

WELL No. HO-95-0140

INV. @ HOUSE	467.8
GROUND @ INV. @ HOUSE	472.0
INV. IN TANK	466.9
INV. OUT TANK	466.6
TOP OF TANK	467.6
GROUND OVER TANK	470.5
INV. IN DIST. BOX	466.5
INV. OUT DIST. BOX	466.2
GROUND @ BOX	470.2

BASEMENT NOT SERVICED VIA GRAVITY SEWER.

APPROVED FOR PRIVATE WATER & PRIVATE SEWAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
Michael J. Davis
 COUNTY HEALTH OFFICER
 6/30/09
 DATE

TO BE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE FOLLOWING STATEMENTS ARE TRUE:

1) ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITH IN 100' OF THE PROPERTY BOUNDARIES HAVE BEEN SHOWN. ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWNGRADIENT OF ANY EXISTING OR PROPOSED SEPTIC SYSTEM AND SEWAGE DISPOSAL EASEMENTS HAVE BEEN SHOWN. THE ENGINEER HAS USED ALL EFFORTS TO FIND THE LOCATIONS OF ALL SURROUNDING WELLS AND SEPTIC SYSTEMS

THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTHS AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIROMENT AS SHOWN ON THE RECORD PLAT 18240 GENERAL NOTES ITEM 2.

ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN

THE ENTIRE SUBJECT PRPERTY IS WITHIN SOIL MAP UNIT GgB

PERMIT PLOT PLAN &
 PERCOLATION CERTIFICATION PLAN
 LOT #68
HOMWOOD CROSSING
 D.B. 9808, PG. 204
 PLAT No. 18245
 THIRD ELECTION DISTRICT
 HOWARD COUNTY

ESE Land Planning
 Engineering
 Land Surveying

ESE Consultants Inc.
 7164 Columbia Gateway Dr.
 Suite 203
 Columbia, MD 21046
 TEL: 410-872-9105
 FAX: 410-872-4870

DATE: 06/12/09 SCALE: 1"=40' FILE: LOT 68 HENLEY VERS
 CHK'D: MJB JOB#: 1214 DRAWN: GVS

Michael J. Davis
 6/30/09
 DATE