

Bureau of Environmental Health
 7178 Gateway Drive Columbia, MD 21046
 (410) 313-2640 Fax (410) 313-2648
 TDD (410) 313-2323 Toll Free 1-866-313-6300
 website: www.hchealth.org

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

RECEIPT DATE: 7/24/14

ONSITE SEWAGE DISPOSAL SYSTEM

P 554557

INSTALLATION APPROVAL DATE: _____

**PERMIT
CONSTRUCTION**

A _____

PROPERTY ADDRESS: 4811 River Crossing Court

SUBDIVISION: Homewood Crossing LOT: 72 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 MD V LP EMAIL: _____

OWNER ADDRESS: 7164 Columbia Gateway Drive, MD 21045 PHONE: 410-872-9105

BAT UNIT MODEL: ECOPOD E609CA BAT UNIT SIZE: 600GPD

PUMP CHAMBER CAPACITY (GALLONS): _____ PUMP SIZE: _____

NUMBER OF BEDROOMS: 4 HOUSE SQ. FT. _____ APPLICATION RATE: 1.2

DISTRIBUTION SYSTEM: GRAVITY FED LOW PRESSURE DOSED

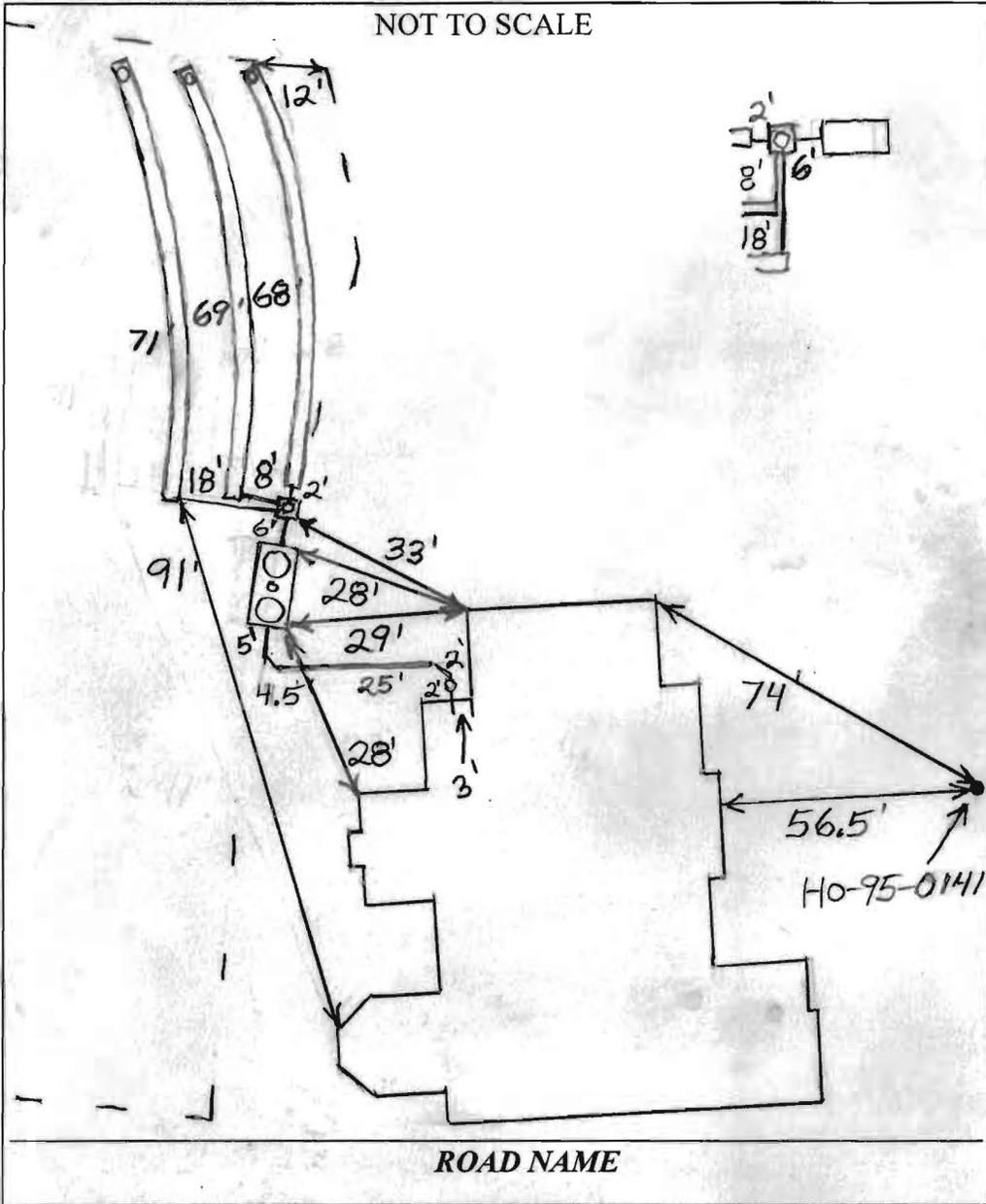
TRENCHES:	LINEAR FEET REQUIRED: <u>SEE BAT PLAN 210'</u>	INLET DEPTH: <u>SEE BAT PLAN 4.5'</u>
	TRENCH WIDTH: <u>SEE BAT PLAN 3'</u>	MAXIMUM BOTTOM DEPTH: <u>SEE BAT PLAN 8'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>SEE BAT PLAN 9'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>SEE BAT PLAN 5'</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Set BAT unit per plan. <u>3 x 70' Trenches</u>	

ISSUED BY: Jeff Williams ISSUE DATE: 8/21/14 EXPIRATION DATE: 7/24/15

- 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

**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
3'	4.5'	8'
NUMBER OF TRENCHES		3'
TOTAL LENGTH		208'
ABSORPTION AREA		624 + Sidewall
DISTRIBUTION BOX LEVEL		Levelers
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes E 60
MANUFACTURER	Babylon EGO
CAPACITY	~2000 GAL
SEAM LOC	Top
TANK LID DEPTH	1'-2.5'
BAFFLES	Yes
BAFFLE FILTER	No
MANHOLE LOC	Front + Rear
6" PORT LOC	Middle
WATERTIGHT TEST	No
SLOTTED	N/A
DATE ON LID	5/24/2014
RUMP/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:

9/18/2014 Plumbing coming out of house in wrong location. Place the dist. box close to the top center of the easement. Install three 70' trenches on contour towards lot 73. O.K. to put the tank just inside the easement in front of the dist. box. Keep the tank shallow so that the entire easement can be used for repairs. (BB)

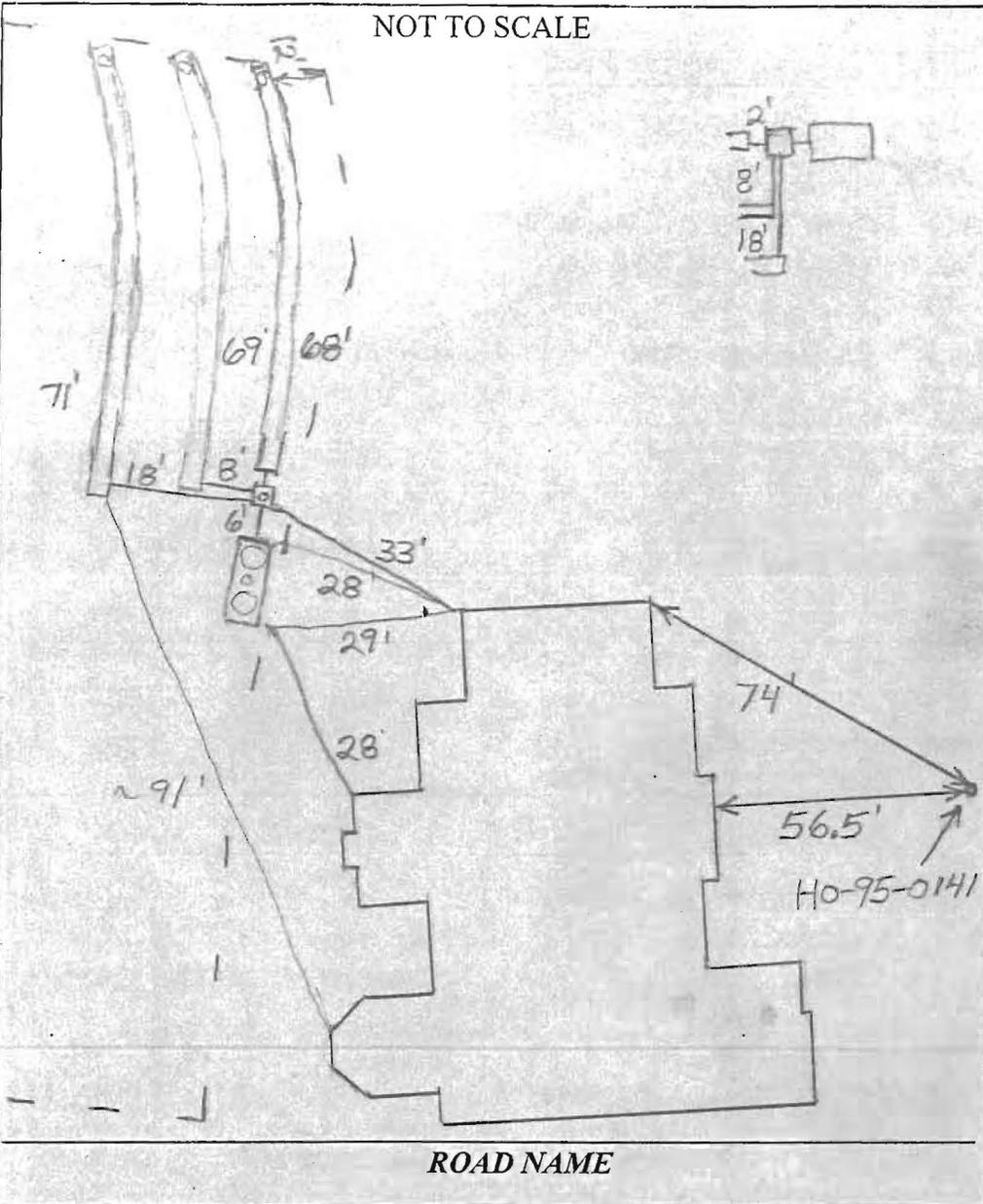
INSTALLATION:

9/15/2014 Tank set. Finishing up bottom trench. O.K. to backfill when done. To make house connection tomorrow after scaffolding is moved (BB) 9/16/2014 House connection made. Need BAT approval memo. from Babylon (BB)

FINAL INSPECTOR _____

DATE OF APPROVAL _____

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4.5'	8'
NUMBER OF TRENCHES		3'
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	<u>Yes</u>
MANUFACTURER	<u>Babylon Escaped</u>
CAPACITY	_____ GAL
SEAM LOC	<u>Top</u>
TANK LID DEPTH	<u>1'-2.5'</u>
BAFFLES	_____
BAFFLE FILTER	<u>No</u>
MANHOLE LOC	<u>Front + Rear</u>
6" PORT LOC	<u>Middle</u>
WATERTIGHT TEST	<u>No</u>
SLOTTED	<u>N/A</u>
DATE ON LID	<u>5/24/2014</u>
PUMP/SEPTIC TANK LEVEL <u>N/A</u>	
MANUFACTURER	_____
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____
SLOTTED	_____
DATE ON LID	_____

PRE-CONSTRUCTION:

9/13/2014 Plumbing coming out of house in wrong location. Place the dist. box close to the top center of the easement. I install three 70' trenches on contour towards lot 73. O.K. to put the tank just inside the easement in front of the dist. box. Keep the tank shallow so that the entire easement can be used for repairs. (B)

INSTALLATION:

9/15/2014

FINAL INSPECTOR _____

DATE OF APPROVAL _____

MEMBER N. C. B. V. A.

MEMBER P. C. B. V. A.



Burial Vaults - Septic Tanks

925 WAKEFIELD VALLEY ROAD
NEW WINDSOR, MD 21776

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

Five Year Initial Service Policy On Site Wastewater Treatment System

Brand Name: <u>ECOPOD</u>	Model Number: <u>ECOPOD 60</u>
Purchase Date: <u>9/11/14</u>	Serial Number: <u>E 66 N - 02160 CA</u>

INITIAL POLICY:

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

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

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

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

THIS POLICY DOES NOT INCLUDE PUMPING SLUDGE FROM UNIT IF NECESSARY

PERMITTING AUTHORITY:

HOWARD COUNTY

SYSTEM OWNER:

INSTALLATION LOCATION:

4811 Rivers Crossing Ct
Ellicott City
MD 21047

DISTRIBUTOR:

Babylon Vault Co
925 Wakefield Valley Rd
New Windsor MD 21776

INSTALLER:

Fogle Septic
Obrecht Rd
Sylksville MD 21784

SERVICE COMPANY:

Babylon Vault Co
Service Operators License Number: Stuart K. G. M.

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

Witness: _____

e3 Environmental LLC

302-725-0788 www.e3onsite.com

ECOPOD-N Completion Statement

Installation Information

Owners Name		# of Bedrooms / GPD	<u>600</u>
Street	<u>4811 River Crossing Ct</u>	Repair	<input type="checkbox"/>
City	<u>Ellicott City</u>	New Construction	<input checked="" type="checkbox"/>
State	<u>MD</u>		
Zip	<u>21042</u>		

Installation Company

Company	<u>Fogles</u>	Installed Date	<u>9/15/14</u>
Certified Installer	<u>James Deavers</u>	Startup Date	<u>10/14/14</u>
Street	<u>Obrecht Rd</u>		
City	<u>Sykesville</u>		
State	<u>MD</u>		
Zip	<u>21784</u>		

ECOPOD-N

Model #	Serial #
E50 <input type="checkbox"/>	
E60 <input checked="" type="checkbox"/>	<u>E60N-02160 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 Babylon Vault Co.
Signature Steven R Koontz
Printed Name Steven R Koontz

Date 11/19/14

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The information provided herein is for informational purposes only. Nothing contained herein is intended to obligate or bind Toll Brothers, Inc., its affiliates, or subsidiaries unless signed by all parties in an Agreement of Sale.

From: Bricker, Robert [mailto:RBricker@howardcountymd.gov]
Sent: Monday, May 19, 2014 12:35 PM
To: Nathan Brandenburg
Subject: RE: Building Permit

Was this a lot for which there had not been a well established?

From: Nathan Brandenburg [mailto:NBRANDENBURG@tollbrothersinc.com]
Sent: Friday, May 16, 2014 1:44 PM
To: Bricker, Robert
Subject: Building Permit

Robert,

I hope you're doing well. I was inquiring with Dana about the status of a building permit and she told me to touch base with you. Can you provide an update on permit B13000116?

Thanks!

Nathan Brandenburg
Project Manager - Toll Brothers Inc.
Patuxent Chase & The Reserve at Triadelphia Crossing
Field Office (410) 489-2275 ~ Fax (410) 489-2278

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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.

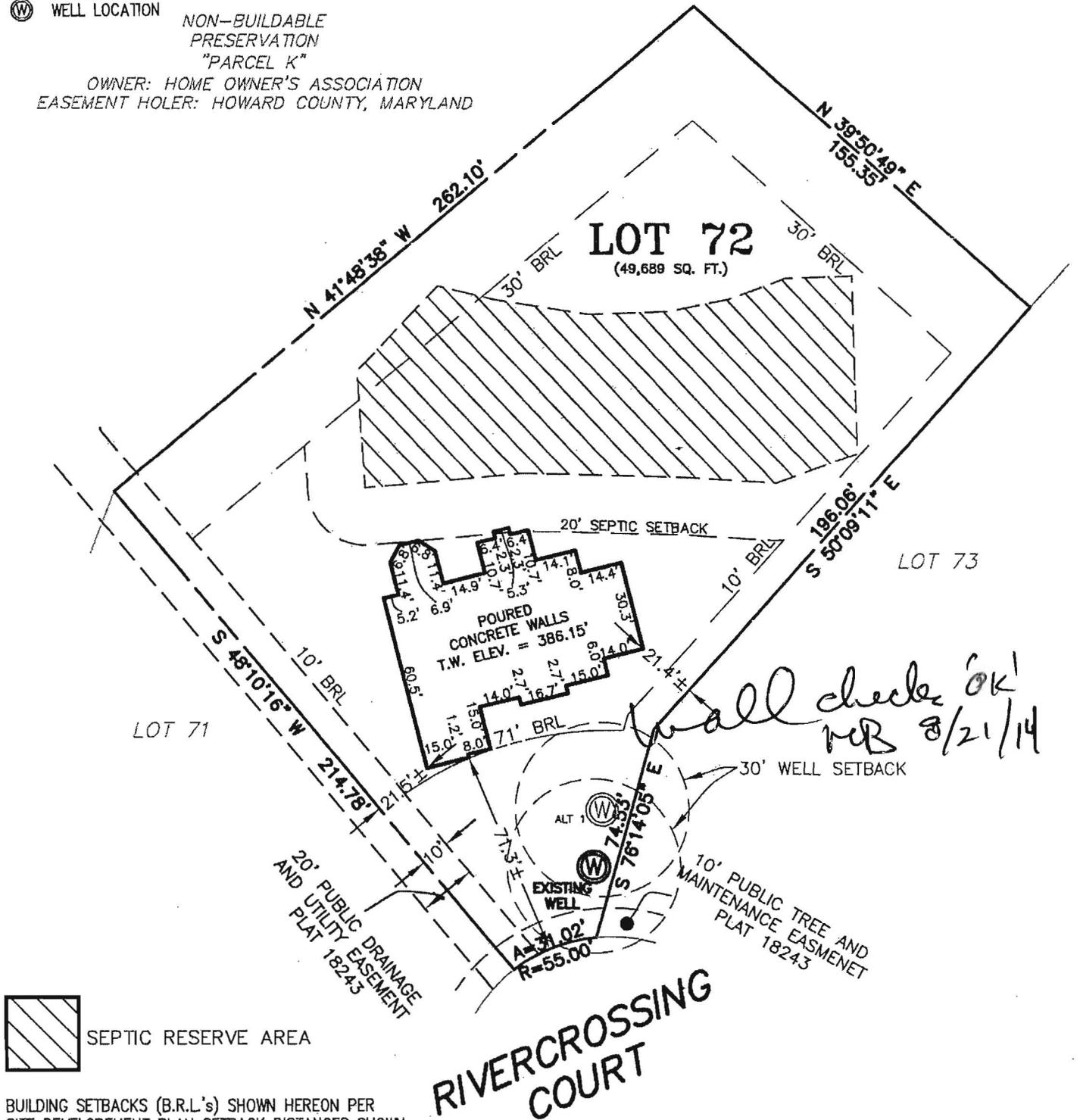
LEGEND:

- BRL BUILDING RESTRICTION LINE
- T.W. TOP OF WALL
- ELEV. ELEVATION
- ⊙ WELL LOCATION

NON-BUILDABLE
PRESERVATION
"PARCEL K"

OWNER: HOME OWNER'S ASSOCIATION
EASEMENT HOLDER: HOWARD COUNTY, MARYLAND

PLAT 18243



 SEPTIC RESERVE AREA

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

ADDRESS: 4811 RIVERCROSSING COURT
ELLICOTT CITY, MD 21042

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.

07/24/14
DATE

WALLCHECK
LOT 72

HOMWOOD CROSSING

LIBER 9808, FOLIO 204

PLAT NO. 18243

ELECTION DISTRICT NO. 5

HOWARD COUNTY, MARYLAND



Land Planning
Engineering
Land Surveying

ESE Consultants Inc.
4101 Ritchie Marlboro Rd.
Upper Marlboro, MD 20772
Tel: 301-627-8504
Fax: 301-627-7985

DATE: 07/24/14

SCALE: 1"=50'

FILE: WC LOT 72_rev 1

CHK'D: M.J.B.

JOB NO: 1214

DRAWN: R.C.K.

Williams, Jeffrey

From: Williams, Jeffrey
Sent: Tuesday, May 20, 2014 9:48 AM
To: 'Nathan Brandenburg'
Cc: Bricker, Robert
Subject: RE: Building Permit
Attachments: image001.jpg; image002.jpg

Looking at the file, I do not see an abandonment report for well HO-95-0141. We have the completion report for the new well, 95-2504. In order to move forward with the building permit, we will need the abandonment report, and then we will need a revised BAT plan showing the new well location and alternate well locations as well as all of our standard requirements for the septic system design. In the meantime, if you could also send us a pdf of the floorplans for the proposed house, we could make sure the number of bedrooms matches the septic sizing when we get the BAT plan for review. Thanks

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@howardcountymd.gov

CONFIDENTIALITY NOTICE

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From: Bricker, Robert
Sent: Monday, May 19, 2014 3:33 PM
To: Williams, Jeffrey
Subject: FW: Building Permit

From: Nathan Brandenburg [<mailto:NBRANDENBURG@tollbrothersinc.com>]
Sent: Monday, May 19, 2014 12:40 PM
To: Bricker, Robert
Subject: RE: Building Permit

Good Morning,

This lot did have two wells at one time, and one has been abandon. I'm trying to figure out where I stand on getting the building permit signed off.

Thanks.

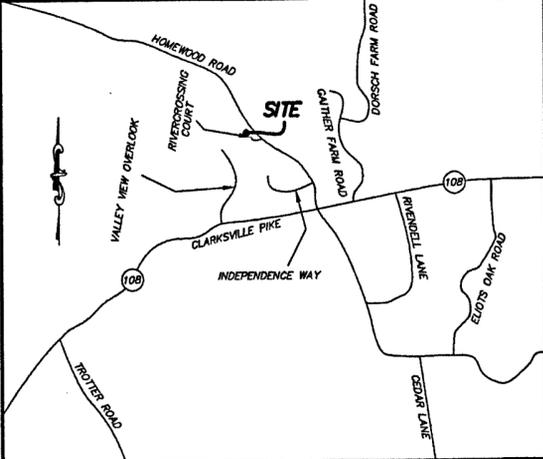
Nathan Brandenburg
Project Manager - Toll Brothers Inc.
Patuxent Chase & The Reserve at Triadelphia Crossing
Field Office (410) 489-2275 ~ Fax (410) 489-2278

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- LEGEND:**
- PERC TEST LOCATION
 - WELL LOCATION
 - LOD- LIMITS OF DISTURBANCE
 - SF - SILT FENCE
 - DRAINAGE AREA LIMITS
 - SOIL TYPE LINE
 - GbB GLADSTONE LOAM, 3% TO 8% SLOPES
 - GbC GLADSTONE LOAM, 8% TO 15% SLOPES
 - DA-1 DRAINAGE AREA 1
 - TW TOP OF WALL
 - GF GARAGE FLOOR
 - BF BASEMENT FLOOR
 - BRL BUILDING RESTRICTION LINE

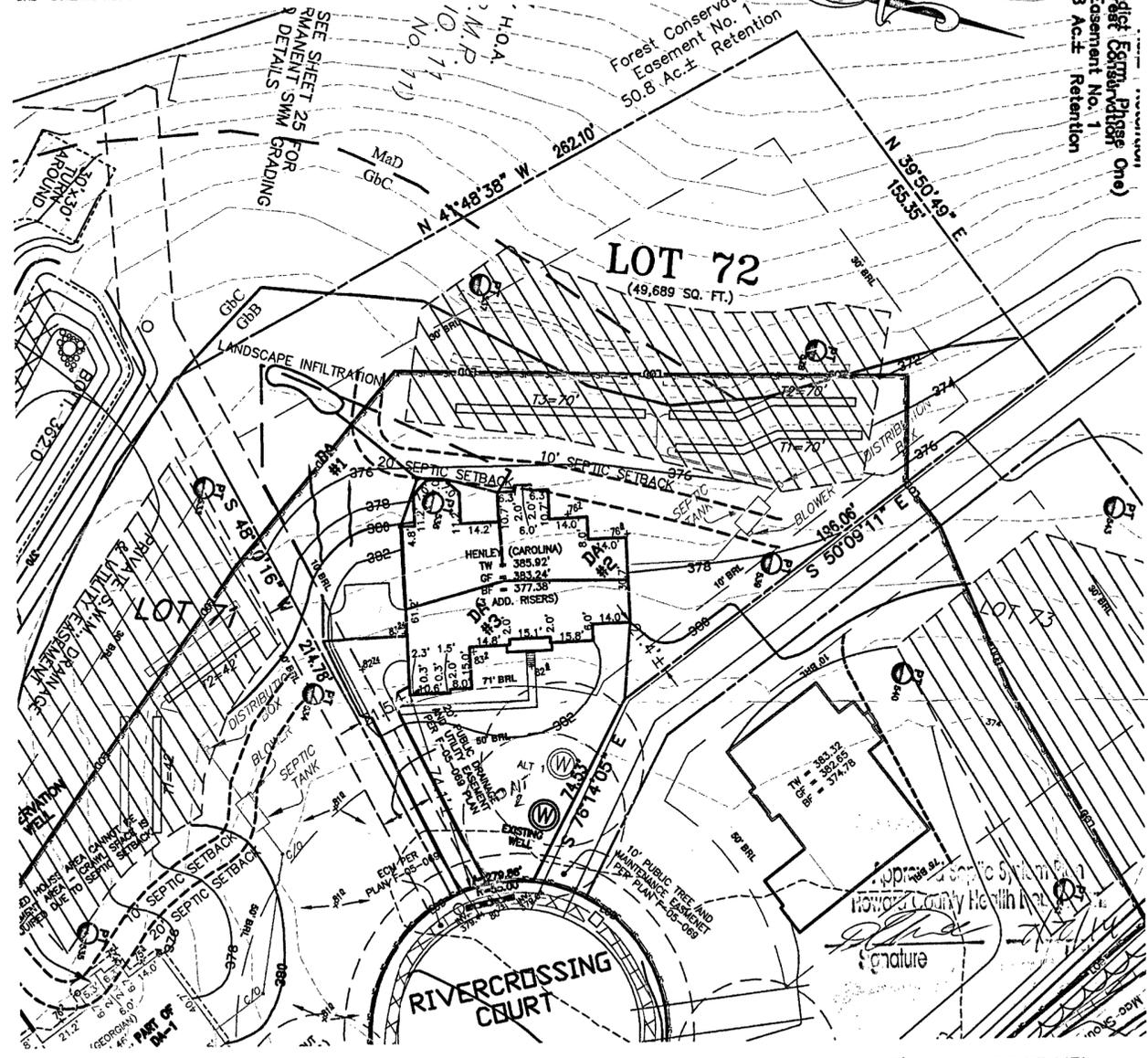
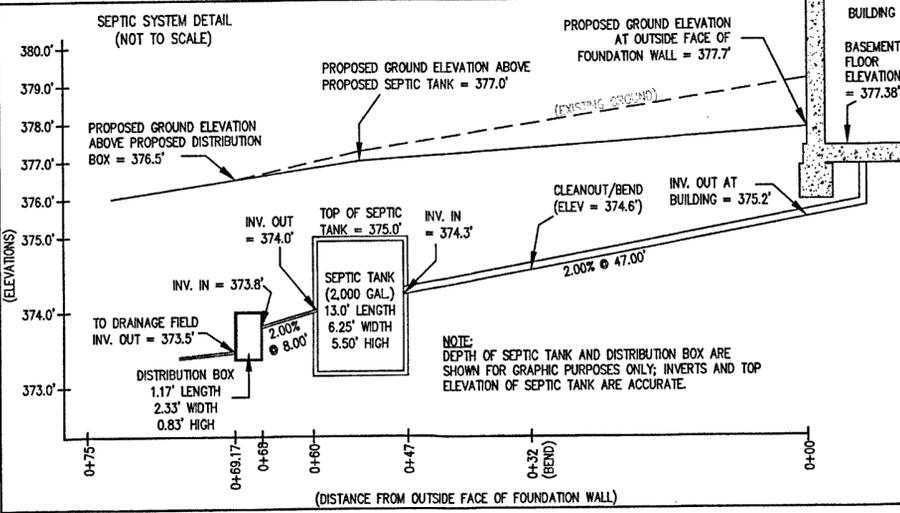
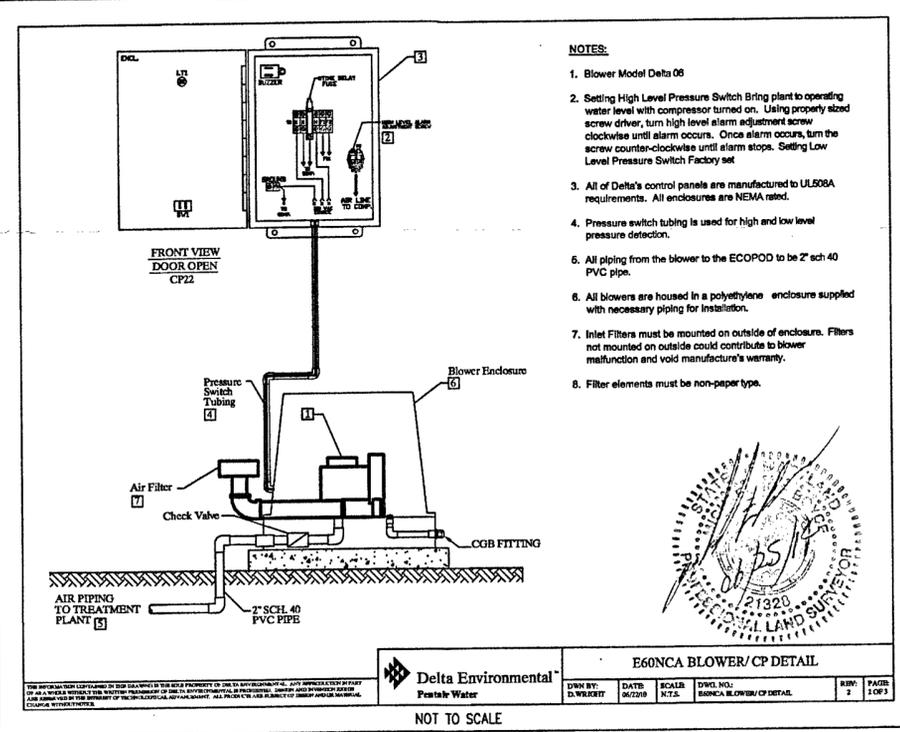
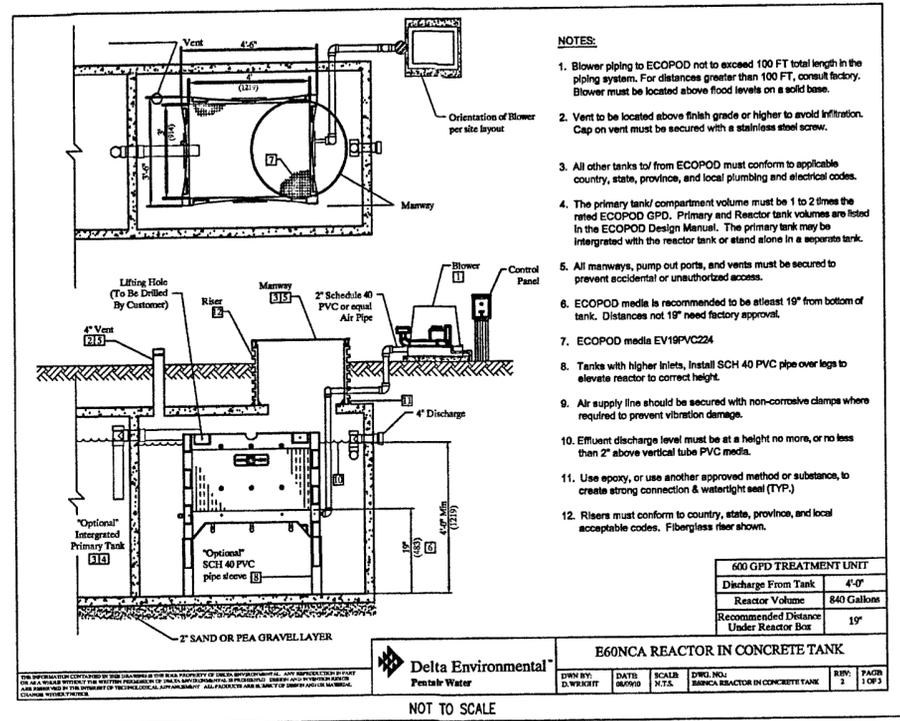
HOUSE OPTIONS:

- TYPE: HENLEY (CAROLINA)
- WALK-OUT BASEMENT
 - EXPANDED FAMILY ROOM/GREAT ROOM
 - CONSERVATORY ELITE ADDITION
 - ADDITION 1' BASEMENT FOUNDATION WALLS
 - FIRST FLOOR BEDROOM IN LIEU OF STUDY
 - ADDITION POWDER ROOM-FIRST/SECOND FLOOR
 - NAPLES SUNROOM ADDITION
 - BRICK SIDES AND REAR
- OPTION No. 017
OPTION No. 023
OPTION No. 039
OPTION No. 070
OPTION No. 075
OPTION No. 377
OPTION No. 529
OPTION No. 673



VICINITY MAP
1" = 1000'

- GENERAL NOTES:**
1. 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.
 2. PLAT REFERENCE: PLAT No. 18243.
 3. 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.
 4. 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.
 5. 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.
 6. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
 7. TOTAL LIMIT OF DISTURBANCE: 26,411 SQ. FT. / 0.61 AC.±
 8. STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY PREVIOUSLY APPROVED PLAN F-05-069 AND ENVIRONMENTAL SITE DESIGN APPROVED WITH ORIGINAL PLOT PLAN DATED 12/30/13.
 9. 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.
 10. DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER (ESE) MAY CAUSE THE WORK TO BE UNACCEPTABLE.
 11. THE DIMENSIONED DISTANCES SHALL GOVERN IF SCALED AND DIMENSIONED DISTANCES ON THIS PLAN ARE FOUND TO BE IN DISAGREEMENT.
 12. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM LOT AREA AND OWNERSHIP WIDTH AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 13. 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 CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS UNTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
 14. 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.
 15. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 16. 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.
 17. THE DEVELOPMENT OF THIS LOT DOES NOT REQUIRE AN ENVIRONMENTAL CONCEPT PLAN SINCE STORMWATER MANAGEMENT WAS PREVIOUSLY APPROVED UNDER F-05-069 AND ENVIRONMENTAL SITE DESIGN SHOWN HEREON.
 18. A STANDARD SEDIMENT CONTROL PLAN MAY BE USED FOR DEVELOPMENT OF THIS LOT. REFERENCE GRADING PLAN GP-14-034 DATED 10/30/13.
 19. THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-0141) HAS BEEN FIELD LOCATED BY ESE CONSULTANTS - PROFESSIONAL LAND SURVEYOR(S), AND IS ACCURATELY SHOWN.
 20. BUILDING SETBACKS (B.R.L.'S) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
 21. CULVERT FOR DRIVEWAY PER F-05-069.



SEWAGE DISPOSAL SYSTEM DATA (5 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: 375.2'
1. E60 ECOPOD SYSTEM
EX. GRADE OVER TANK: 377.3'
PROPOSED GRADE OVER TANK: 377.0'
INVERT IN: 374.3' INVERT OUT: 374.0'
2. DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 376.5'
PROPOSED GRADE OVER TANK: 376.5'
INVERT IN: 373.8' INVERT OUT: 373.5'
3. TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)
750 GPD x 0.6 APP. RATE = 1,250 SF
USE 3" WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
9" MIN. SPACING BETWEEN TRENCH EDGES
1,250 SF x 3" WIDTH = 416.67 LF x 0.50 = 208.34 LF MIN. TRENCH
USE 3 7/8" LONG TRENCHES = 210 LF

TRENCH DATA:

- BOTTOM MAX. DEPTH (8')
- TRENCH 1 (T1):
GROUND ABOVE = 374.6'
INV. IN = 370.6'
BOTTOM TRENCH = 366.6'
- TRENCH 2 (T2):
GROUND ABOVE = 372.9'
INV. IN = 368.9'
BOTTOM TRENCH = 364.9'
- TRENCH 3 (T3):
GROUND ABOVE = 372.9'
INV. IN = 368.9'
BOTTOM TRENCH = 364.9'

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DIRECTOR

PROFESSIONAL ENGINEER

DATE

DATE

DATE

PLOT PLAN FOR BAT INSTALLATION
LOT 72
HOMEWOOD CROSSING
LIBER 9808, FOLIO 204
PLAT No. 18243
TAX No. 05-443377
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
ADDRESS: 4811 RIVERCROSSING COURT
ELLCOTT CITY, MARYLAND

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: 06/24/14 SCALE: 1"=40' FILE: PP LOT 72_rev 3
CHK'D: M.J.B. JOB NO: 1214 DRAWN: R.C.K.