

**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: 2-28-16

**ONSITE SEWAGE DISPOSAL SYSTEM**

P 557993

APPROVAL DATE: 3/29/16 SEC

**PERMIT: CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 18317 Chelsea Knolls Drive

SUBDIVISION: Chelsea Knolls

LOT: 3

TAX ID: \_\_\_\_\_

CONTRACTOR: Hatfield's Equipment

EMAIL: ken@hatfieldsequipment.com

CONTRACTOR ADDRESS: P.O. Box 519 Annapolis Junction, MD 20701

PHONE: 301-490-4289

CONTRACTOR CERTIFIED FOR BAT INSTALLATION:



MDE



MANUFACTURER:

PROPERTY OWNER: Ryan Homes

EMAIL: dsnyder@nvrinc.com

OWNER ADDRESS: 9720 Patuxent Woods Drive

PHONE: 410-796-0980

BAT UNIT MODEL: Norweco TNTLP 500

PUMP SIZE: 0.5HP

PUMP TANK CAPACITY: 1500 GAL

OPERATION & MAINTENANCE AGREEMENT

DATE SIGNED: 5/1/14

DATE RECORDED: 5/1/14

DISTRIBUTION SYSTEM:



GRAVITY



PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE: 0.8

TRENCHES:

LINEAR FEET REQUIRED: 262

INLET DEPTH: 4

TRENCH WIDTH: 3

MAXIMUM BOTTOM DEPTH: 5

MINIMUM SPACE

BETWEEN TRENCHES: 10

EFFECTIVE AREA BEGINNING DEPTH: 4

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 cleanout(s) as indicated.

ISSUED BY: Robert Bricker

ISSUE DATE: 2-16-16

EXPIRATION DATE: 2-16-17

**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 DOWNGRAIDENT 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 16000512

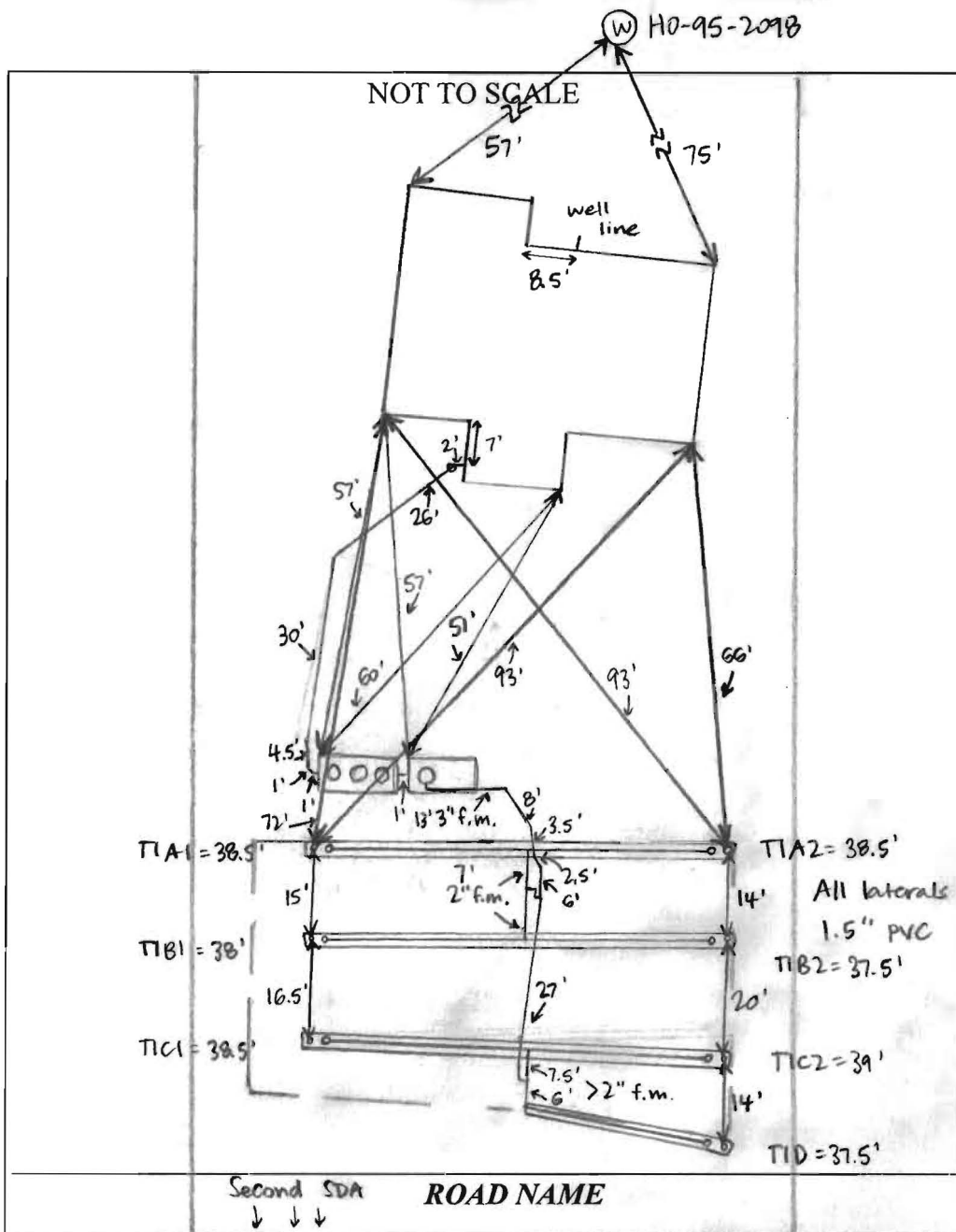
**NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.**

**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
3'	4'	5'
NUMBER OF TRENCHES 7		
TOTAL LENGTH 267.5'		
ABSORPTION AREA 802.5'		
DISTRIBUTION BOX LEVEL		
DISTRIBUTION BOX BAFFLE		
DISTRIBUTION BOX PORT		

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BACKRIVER/NORWEGIAN
CAPACITY	1300 GAL
SEAM LOC	TOP
TANK LID DEPTH	2.5'
BAFFLES	NO
BAFFLE FILTER	NO
MANHOLE LOC	FRONT, MID, REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	12-14-15
PUMP/SEPTIC TANK LEVEL	YES
MANUFACTURER	BACKRIVER
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	2'
BAFFLES	NO
BAFFLE FILTER	NO
MANHOLE LOC	FRONT
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	1-24-16
PUMP:	WEDSH

#### PRE-CONSTRUCTION:

2/24/16 Met Hatfield's on site for layout. Same stakes present but not labeled and no cut sheet provided. Reschedule layout once SDA, tanks, and laterals are staked + labeled. (SC) 3/7/16 Met Hatfield's on site for layout. All SDA, tank and trench stakes present. All trenches staked at 37.5'. Shot contour - all ends within 6" of other end. Moved southern end of 1C1 down ~ 2' to match elevation of end + straighten trench. (SC)

#### INSTALLATION: 3/8/16 Tanks set and house connection made. WEDSH pump installed. (SC)

3/9/16 On site while Hatfield's is digging trench 1D. Using laser, 5' to bottom. All other trenches/laterals complete + left open at ends. Saw perforations drilled on 1D lateral pipe - no cuttings around holes. Lateral 1D shown on wrong side on BAT plan lateral details (p2) - center feed installed per plan. Need BAT startup and pump + alarm. (SC) 3/11/16 BAT startup received. (SC) 3/29/16 On site for pump + alarm. Head heights 3-4.5' on all laterals. Alarm sounds. Norwegian alarm + aerator run. Water pooling around tank - check final grade. (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 3/29/16

# Back River Pre-Cast, LLC

PO BOX 329  
Glyndon, MD 21071  
Phone # 410-833-3394  
Fax # 410-833-4116

## Letter of Certification

This is to certify that the Norweco Singulair TNT 600 GPD Septic Tank installed at 18317 Chelsea Knolls Dr., Mt. Airy, MD 21771 March 8, 2016 was installed according to the manufacture's specifications.

Installer: Jeff Reiter

Property Owner: NVR

Permit #

**THIS CERTIFICATION IS FOR INSTALLATION ONLY. THE 5-YEAR OPERATIONS & MAINTENANCE AGREEMENT FROM DATE OF INSTALLATION WILL ONLY GO INTO EFFECT AFTER BACK RIVER PRE-CAST, LLC RECEIVES FINAL AND FULL PAYMENT FOR THE SYSTEM.**



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MATTHEW GECKLE  
Vice-President

13038-3001

Clerk of the Circuit Court for  
Howard County  
Land Records/Licensing  
14 SAT AGREEMENTS  
The Thomas Dorsey Building  
9250 Bendix Road  
Columbia, MD 21045  
410-313-5850

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LR - Agreement Recording Fee	1x	20.00	20.00
Grantor/Grantee Name: Chelsea Knolls LC			
Reference/Control #: 82			
LR - Agreement Surcharge	1x	40.00	40.00
LR - Agreement Recording Fee	1x	20.00	20.00
Grantor/Grantee Name: Chelsea Knolls LC			
Reference/Control #: 83			
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Grantor/Grantee Name: Chelsea Knolls LC			
Reference/Control #: 88			
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Grantor/Grantee Name: Chelsea Knolls LC			
Reference/Control #: 89			
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Grantor/Grantee Name: Chelsea Knolls LC			
Reference/Control #: 90			
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LR - Agreement Recording Fee	1x	20.00	20.00
Grantor/Grantee Name: Chelsea Knolls LC			

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1x 40.00 40.00  
LR - Agreement Recording Fee  
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Grantor/Grantee Name: Chelsea Knolls LC  
Reference/Control #: 88

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Grantor/Grantee Name: Chelsea Knolls LC  
Reference/Control #: 89

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Grantor/Grantee Name: Chelsea Knolls LC  
Reference/Control #: 90

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LR - Agreement Recording Fee  
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Grantor/Grantee Name: Chelsea Knolls LC  
Reference/Control #: 91

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LR - Agreement Recording Fee  
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Grantor/Grantee Name: Chelsea Knolls LC  
Reference/Control #: 92

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LR - Agreement Recording Fee  
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Grantor/Grantee Name: Chelsea Knolls LC  
Reference/Control #: 93

LR - Agreement Surcharge  
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LR - Agreement Recording Fee  
1x 20.00 20.00  
Grantor/Grantee Name: Chelsea Knolls LC  
Reference/Control #: 94

LR - Agreement Surcharge  
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LR - Agreement Recording Fee  
1x 20.00 20.00  
Grantor/Grantee Name: 95

LR - Agreement Surcharge  
1x 40.00 40.00  
LR - Agreement Recording Fee  
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1x -20.00  
LR - Agreement Surcharge  
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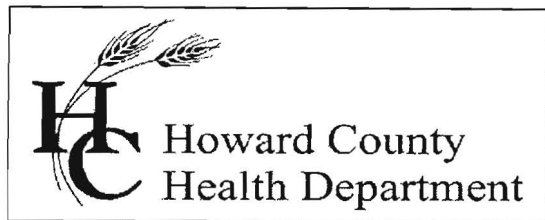
Grantor/Grantee Name: Chelsea Knolls LC  
Reference/Control #: 95

LR - Agreement Surcharge  
1x 40.00 40.00

=====  
SubTotal: 840.00  
Total: 840.00  
=====

REV-Check-80A 840.00  
Number : 3616

05/01/2014 14:01 CC13-JE  
#2738771 /494/109  
Thank you for visiting us today~



## Bureau of Environmental Health

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TDD 410-313-2323 | Toll Free 1-866-313-6300

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

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

Twitter: HowardCoHealthDep

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

September 4, 2015

To: Daren Snyder, Ryan Homes  
[dsnyder@nvrinc.com](mailto:dsnyder@nvrinc.com)

RE: 18317 Chelsea Knolls Drive (Lot 3), BAT Plan comment

The Bureau has conducted an internal review of the BAT proposal, held internal discussions, and discussed relevant issues with the consulting engineer. Through this process we have learned that the BAT Plan cannot be given final approval at this time.

Due to the sensitivity to elevation differences in the proper design of low-pressure distribution (LPD) systems, we have resolved that the required grading must occur first. After grading, the topography of the graded area and immediate adjacent areas are to be field -run and presented on what we hope to be the final draft of the BAT Plan for Lot 3.

Well and Septic Program Environmental Sanitarians are to be on location when the grading occurs to observe the soil conditions and depth of grading. Please coordinate the grading activity with Jeff Williams and myself.

Should you have an inquiry or a proposal concerning the timing of Building Permit release and BAT Plan approval, you may contact our Well and Septic Program Supervisor, Jeff Williams, directly by email or by phone. Our Program phone number is 410-313-1771.

Respectfully,

Robert Bricker, CPSS, REHS/R.S.

Environmental Sanitarian II

Well and Septic Program, Bureau of Environmental Health

Howard County Health Department

8930 Stanford Boulevard

Columbia, MD 21045

Phone : 410-313-2691

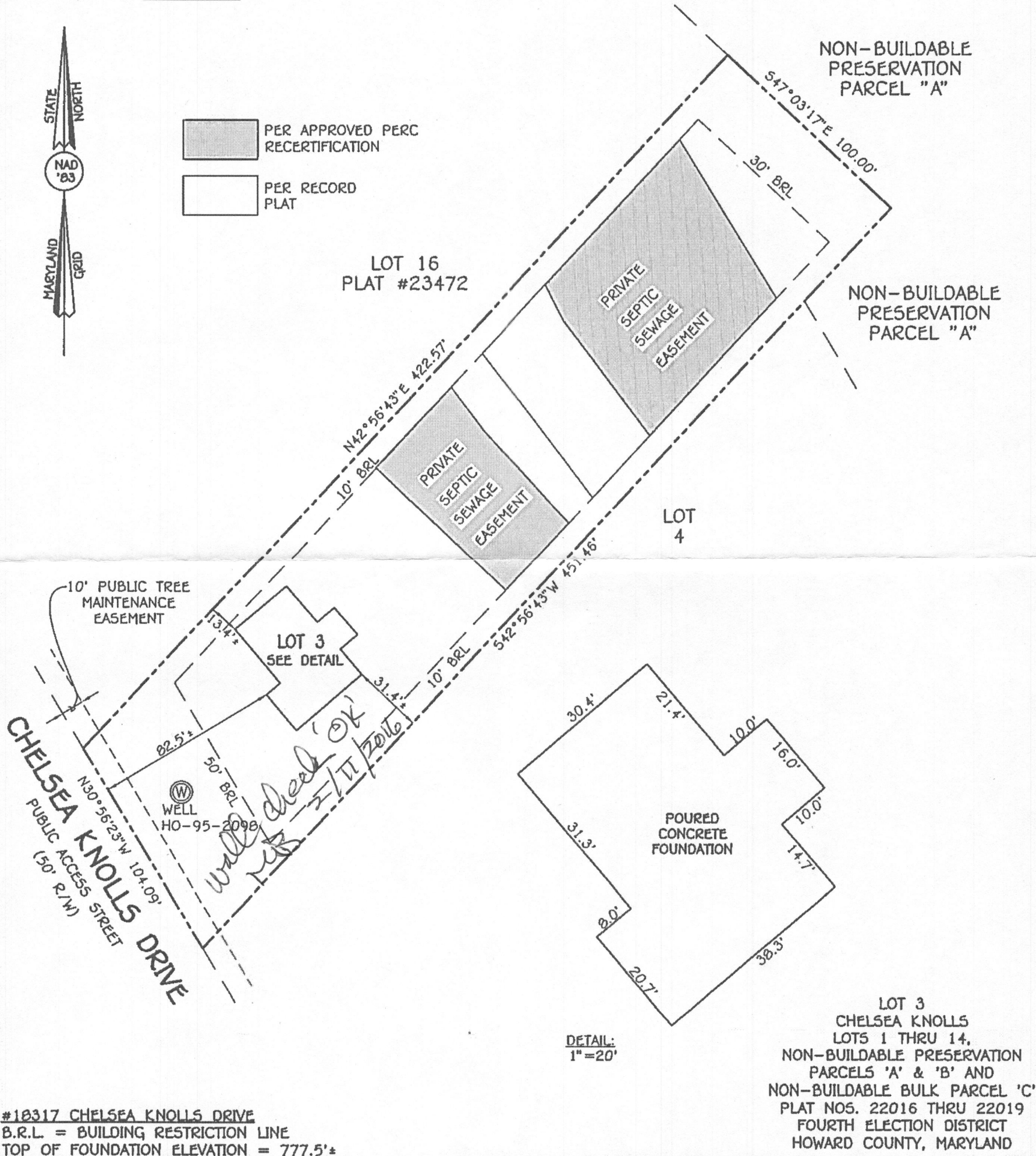
RB

Copy: Stephanie Tuitte, Fisher Collins & Carter, Inc.  
Jeff Williams, Bureau of Environmental Health  
file



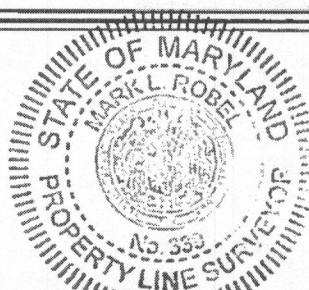
# GENERAL NOTES:

- 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 X ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 24027C0010D EFFECTIVE 11/06/2013
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 1.0.'
- 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-95-2098) 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.
- 7) BUILDING PERMIT #B-15002688



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

Drawing Name:



*Mark L. Robel*  
 PROPERTY LINE SURVEYOR  
 REG. #339

2/11/16  
 DATE

## HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 1/18/16  
 FINAL LOCATION: \_\_\_\_\_  
 BOUNDARY SURVEY: \_\_\_\_\_

SCALE: 1"=50'  
 DATE: 2/11/16  
 DRAWN BY: GAD  
 CHECKED BY: MLR  
 PROJECT No.: 13038-3001