



Howard County  
Health Department

# 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: 4-16-15

## ONSITE SEWAGE DISPOSAL SYSTEM

P 555814

INSTALLATION

APPROVAL DATE: 7/9/15 (Kmm)

# PERMIT

## CONSTRUCTION

A \_\_\_\_\_

PROPERTY ADDRESS: 14905 Victory Lane

SUBDIVISION: Merwether Farm

LOT: 1

TAX ID: 04-593610

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 Inc.

EMAIL: \_\_\_\_\_

OWNER ADDRESS: 14881 Meriwether Drive, Glenelg, MD 21737

PHONE: 301-418-1923

BAT UNIT MODEL: Norweco TMLP 50 PUMP SIZE: \_\_\_\_\_ PUMP TANK CAPACITY: 500 GPD

DISTRIBUTION SYSTEM: GRAVITY ☐ LOW PRESSURE DOSED ☐ NUMBER OF BEDROOMS: \_\_\_\_\_

92 tons

TRENCHES:	LINEAR FEET REQUIRED: <u>158 222'</u>	INLET DEPTH: <u>SEE BAT PLAN 5'</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8 7.5'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5.5-6'</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 Unit per plan.  <u>3 x 74'</u>	

ISSUED BY: Hank Oswald

ISSUE DATE: 4-22-15

EXPIRATION DATE: 4-22-16

**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**

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

**NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA**

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.**

**PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.**

**CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

NOT TO SCALE

See separate sheet for  
as-built drawing

ROAD NAME

**TRENCH/DRAINFIELD DATA**

WIDTH INLET BOTTOM  
3' 5' 7.5'  
NUMBER OF TRENCHES 3  
TOTAL LENGTH 219'  
ABSORPTION AREA 657' + SIDEWALL  
DISTRIBUTION BOX LEVEL YES  
DISTRIBUTION BOX BAFFLE YES  
DISTRIBUTION BOX PORT YES

**SEPTIC TANK DATA**

SEPTIC TANK I LEVEL YES  
MANUFACTURER BACKRIVER  
CAPACITY 1300 GAL  
SEAM LOC TOP  
TANK LID DEPTH 2'  
BAFFLES NO  
BAFFLE FILTER NO  
MANHOLE LOC FRONT, MID, REAR  
6" PORT LOC NONE  
WATERTIGHT TEST NO  
SLOTTED NO  
DATE ON LID NONE

**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:

5/4/2015

INSTALLATION: 5/5/15 House connection not yet made- pipe laid most of the way from house to tank location. Fogle's on site digging tank hole for delivery later today. (SC)  
5/6/15 T1 finished, open at ends. Currently digging T2, 45' to stone, 3' wide. (SC)  
5/6/15 T2 and T3 finished; T2 open at ends and T3 uncovered. All pipe from D-box to trenches laid. Need to level speed levelers in D-box. (SC) 5/8/15  
Leveled speed levelers in D-box. Need BAT startup certification. (SC)

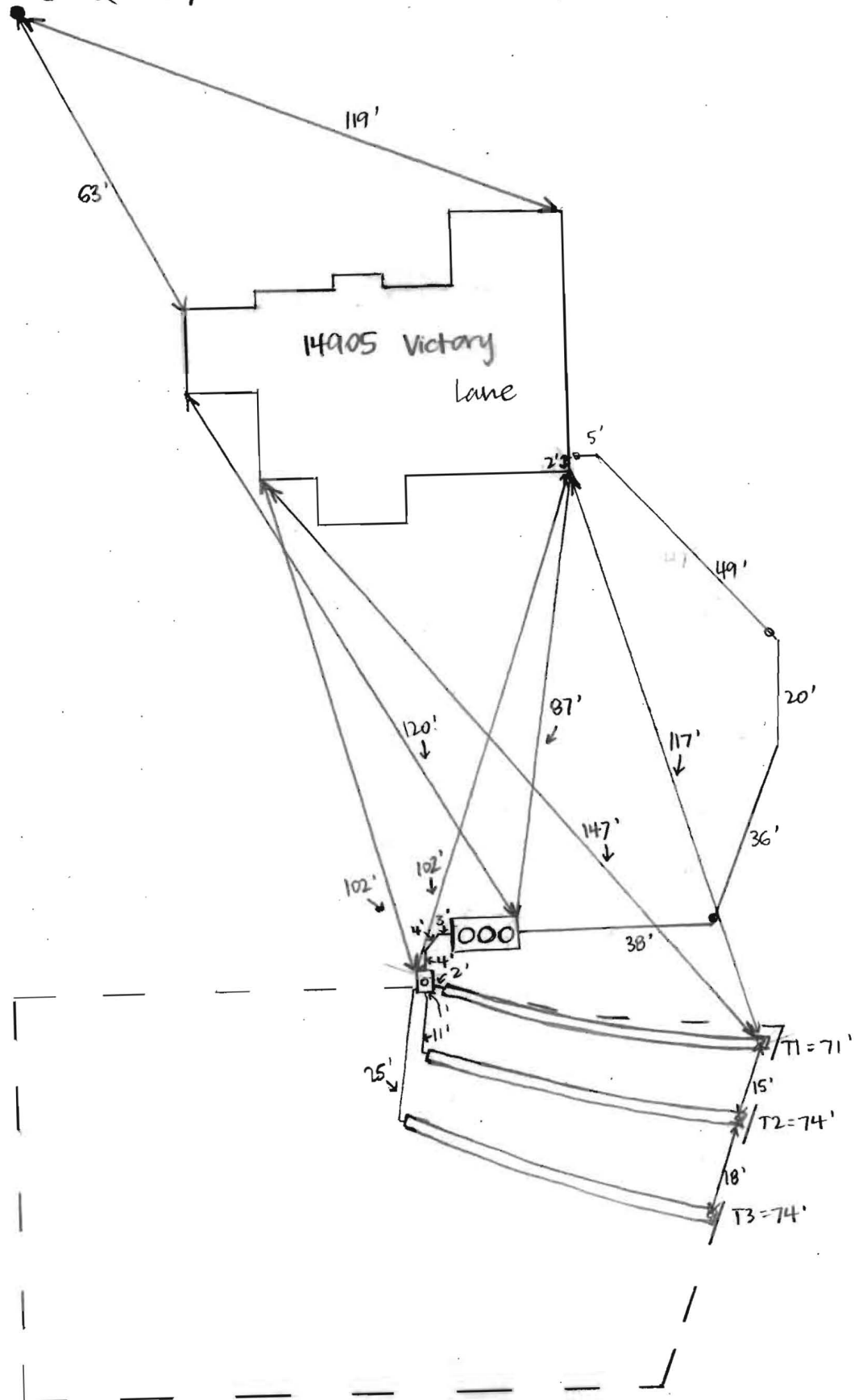
FINAL INSPECTOR

*[Signature]*

DATE OF APPROVAL

7/9/15

HO-95-2079



## 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 Singlair TNT 600 GPD Septic Tank installed at 14905 Victory Ln., Glenelg, MD 21737 was installed on May 5, 2015 according to the manufacture's specifications.

Installer: Matthew Cooney

Property Owner: Toll MD VIII Limited Partnership



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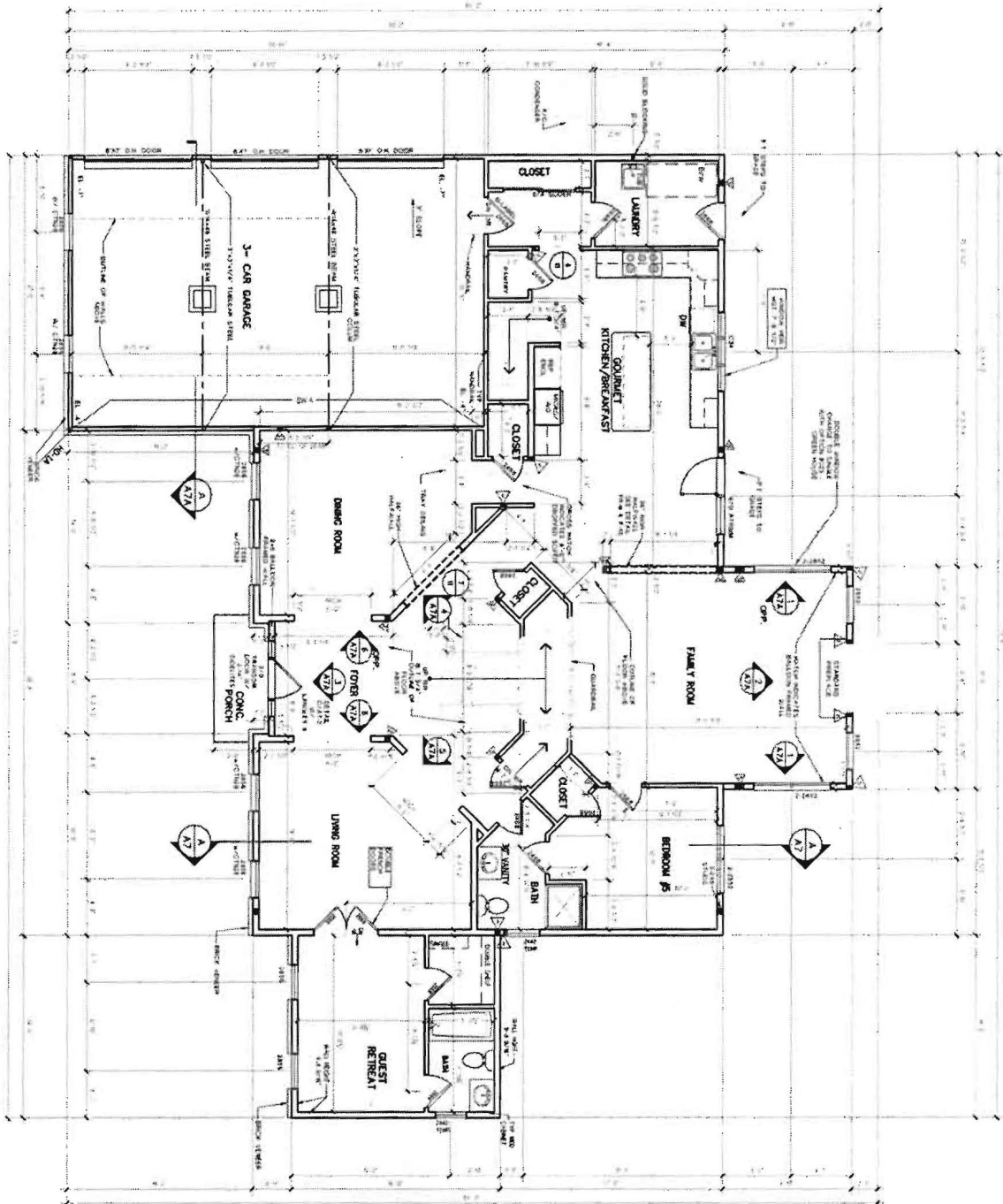
MATTHEW GECKLE

Vice-President

**FIRST FLOOR PLAN**

SCALE: 1/4" = 1'-0"

FEDERAL



LEFT HAND SET CATTAIL OVERLOOK - LOT# 001- AO# 97068

<p><b>A2</b></p> <p>PROJECT NAME <b>ESTATE</b></p> <p>PROJECT ADDRESS <b>LANGLAY</b></p> <p>DESIGNER <b>FEDERAL</b></p> <p>DATE <b>2013.0</b></p>	<p><b>FIRST FLOOR PLAN</b></p>	<p>SHEET NUMBER <b>10/20/2014</b></p> <p>SHEET REVISION INFO</p>	<p>SHEET DATE <b>10/20/2014</b></p> <p>SHEET REVISION INFO</p>	<p>DESIGNED BY <b>M. STEIN</b></p> <p>CHECKED BY <b>T. MAHER</b></p> <p>SCALE <b>AS NOTED</b></p>	<p><b>Toll Architecture</b></p> <p>A Toll Brothers, Inc. Company</p> <p>PHILADELPHIA • BALTIMORE • BOSTON • CHICAGO • DALLAS • DENVER • HOUSTON • LOS ANGELES • MIAMI • MINNEAPOLIS • NEW YORK • PHOENIX • PORTLAND • RICHMOND • SEATTLE • TAMPA • WASHINGTON, DC</p> <p>EASTERN DIVISION</p>	<p>And Gibson AIA Lee Galloway AIA David Guggins AIA Michael R. LeBlanc AIA Cynthia E. Sweeney AIA Jeremy Green AIA Robert E. DeSilva AIA Timothy O'Neil AIA Joe Vachek AIA</p>
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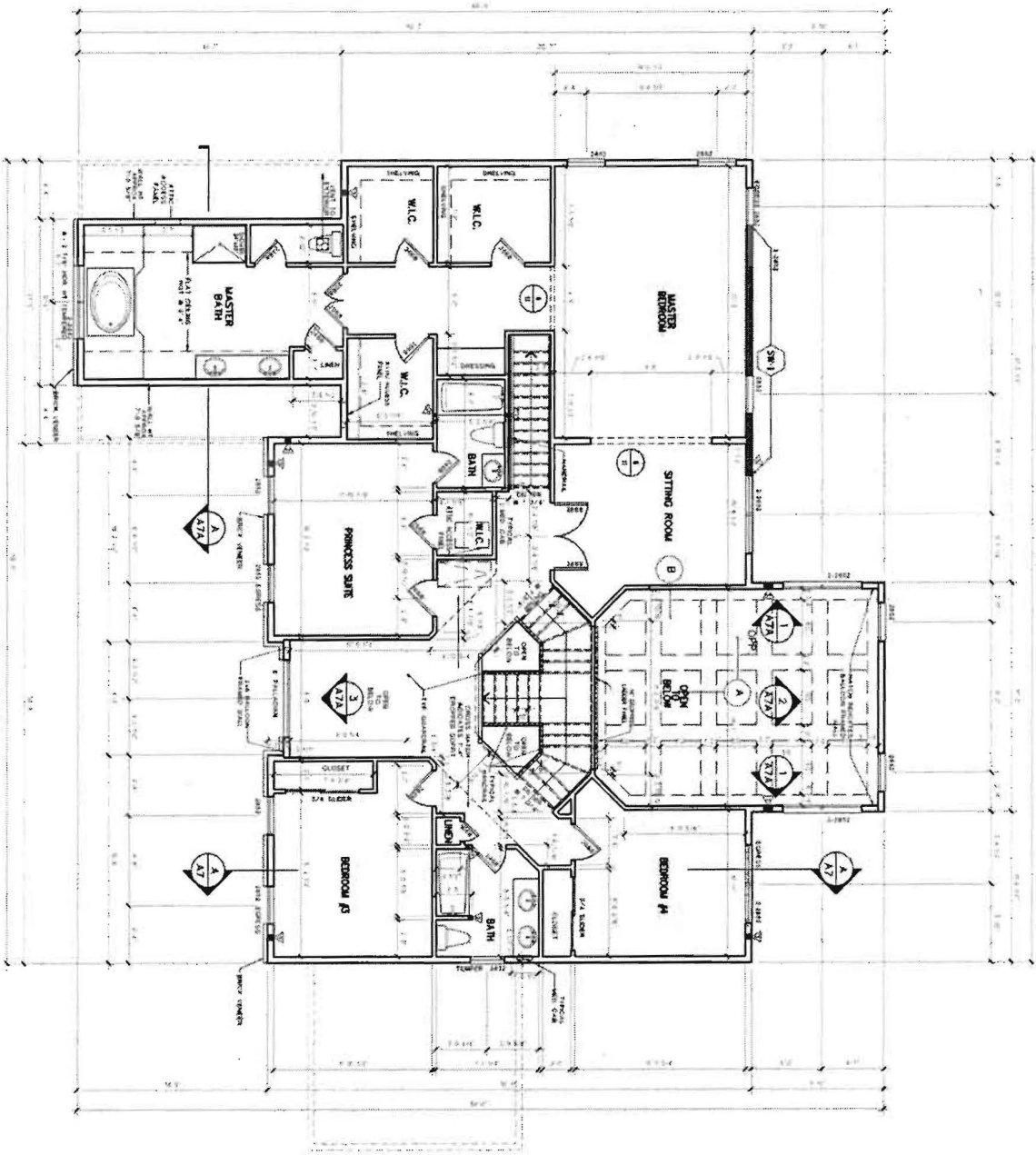
ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF TOLL BROTHERS, INC. AND ARE COPYRIGHTED. THEY WERE CREATED, EVOLVED AND DEVELOPED FOR USE ON, AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF TOLL BROTHERS, INC. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY, AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND TOLL BROTHERS OFFICE MUST BE NOTIFIED OF ANY VIOLATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

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# SECOND FLOOR PLAN

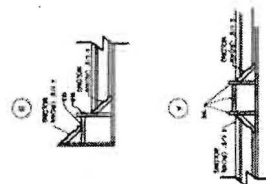
Scale: 1/4" = 1'-0"

FEDERAL



## OPEN BEAM CEILING DETAILS

Scale: N.T.S.



LEFT HAND SET CATTAIL OVERLOOK - LOT# 001- AO# 97068

<p>SHEET NUMBER <b>A3</b></p>	<p>PROJECT NAME <b>ESTATE</b></p> <p>ARCHITECT FIRM <b>LANGLEY</b></p> <p>ARCHITECT NAME <b>FEDERAL</b></p>	<p>SHEET DESCRIPTION <b>SECOND FLOOR PLAN</b></p>	<p>SIT. DESCRIPTION <b>...</b></p>	<p>SHEET DATE <b>10/20/14</b></p> <p>SHEET REVISION INFO <b>...</b></p>	<p>DESIGNED BY <b>...</b></p> <p>CHECKED BY <b>...</b></p> <p>SCALE <b>AS NOTED</b></p>	<p><b>Toll Architecture</b></p> <p>A Toll Brothers, Inc. Company</p> <p>PHILADELPHIA • DALLAS BIRMINGHAM • CHICAGO • MIAMI</p>	<p>JOEL GIBSON, AIA LEO GONZALEZ, AIA DAVID RUGGLES, AIA NORMAN R. LEBLANC, AIA SYLVIA E. SENECHY, AIA JENNIFER GREENE, AIA KAROL W. DU SALLE, AIA TAMARAH C. HALL, AIA MI VANCE, AIA</p>
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[illegible]

## Oswald, Hank

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**From:** Steve Landoll <propermits@gmail.com>  
**Sent:** Monday, December 22, 2014 11:30 AM  
**To:** Oswald, Hank  
**Subject:** Fwd: Cattail: Lot #1 Blue Prints  
**Attachments:** Lot001-A1.pdf; Lot001-A2.pdf; Lot001-A3.pdf

Please find floor plans for lot 1  
Steve Landoll

----- Forwarded message -----

From: "Michael Martin" <MMARTIN3@tollbrothersinc.com>  
Date: Dec 22, 2014 11:24 AM  
Subject: Cattail: Lot #1 Blue Prints  
To: "Steve Landoll &lt;propermits@gmail.com>; (propermits@gmail.com)" <propermits@gmail.com>  
Cc:

Michael C. Martin

-----  
Cattail Overlook

Office: 410.489.7408

Fax: 410.489.2676





DRAWN: R.C.K.

## Oswald, Hank

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**From:** Oswald, Hank  
**Sent:** Monday, January 05, 2015 11:40 AM  
**To:** 'Steve Landoll'  
**Cc:** 'mmartin3@tollbrothersinc.com'  
**Subject:** Meriwether Farm Lots 1, 4, 7, 8

Hi Steve:

### **Lots 4 and 8:**

The floor plans show 4 bedrooms with a full bath rough in on the basement level. Depending on how the basement is finished later on may require the future homeowners to upgrade their septic system (if the floor plans show more than 1 bedroom in the basement). Otherwise, the building permits for these two lots have been approved.

### **Lot 1:**

The BAT system is currently designed for 5 bedrooms but the floor plans show 6 bedrooms (guest retreat – room # 6). Please revise the floor plans or BAT Plan and resubmit for BP approval.

### **Lot 7:**

I still need to see the floor plans for this lot (Last email from you only included the cover page.).

Regards,

Hank

Hank Oswald, L.E.H.S.  
Howard County Health Department  
Bureau of Environmental Health  
Well & Septic Program  
410.313.1786

1/5/15 - Per J. Mudd, Lot 1 BAT will be revised.



**Bureau of Environmental Health**

8930 Stanford Boulevard, Columbia, MD 21045

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

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Facebook: [www.facebook.com/hocohealth](https://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 15 day of April 2015, among MELISSA ANDERSON, 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 14905 VICTORY LANE, in the      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      Folio     .

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 NORWECO BINGULIN TNT 600.

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

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.

Bed Nipon 4/15/2015  
Howard County Health Department

Owner #1 Signature 4/15/15 Date

MIKE MARTIN  
Owner #1 Print Name

Buyer #1 Signature 4-15-15 Date

MELISSA ANDERSON  
Buyer #1 Print Name

Owner#2 Signature Date

Owner #2 Print Name

Buyer #2 Signature Date

Buyer #2 Print Name

14905 Victory Lane

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: anderson  
Reference/Control #: 155

LR - Agreement Surcharge

	1x 40.00	40.00
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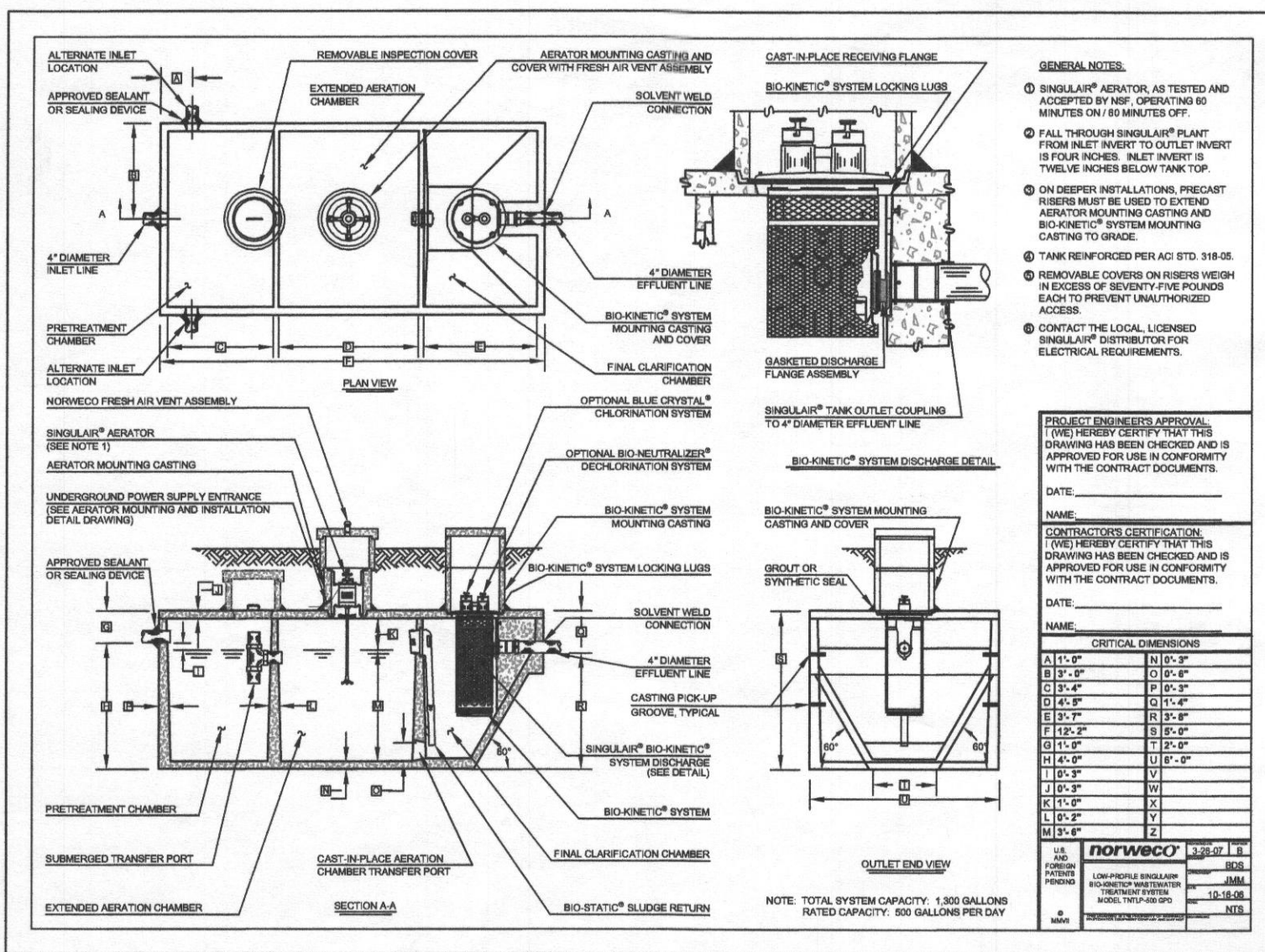
SubTotal:	60.00
Total:	60.00

=====

REV-Check-BOA	60.00
Number : 68918	

04/15/2015 13:28 CC13-TR  
#4107182 /396/109  
~ Thank you for visiting us today~

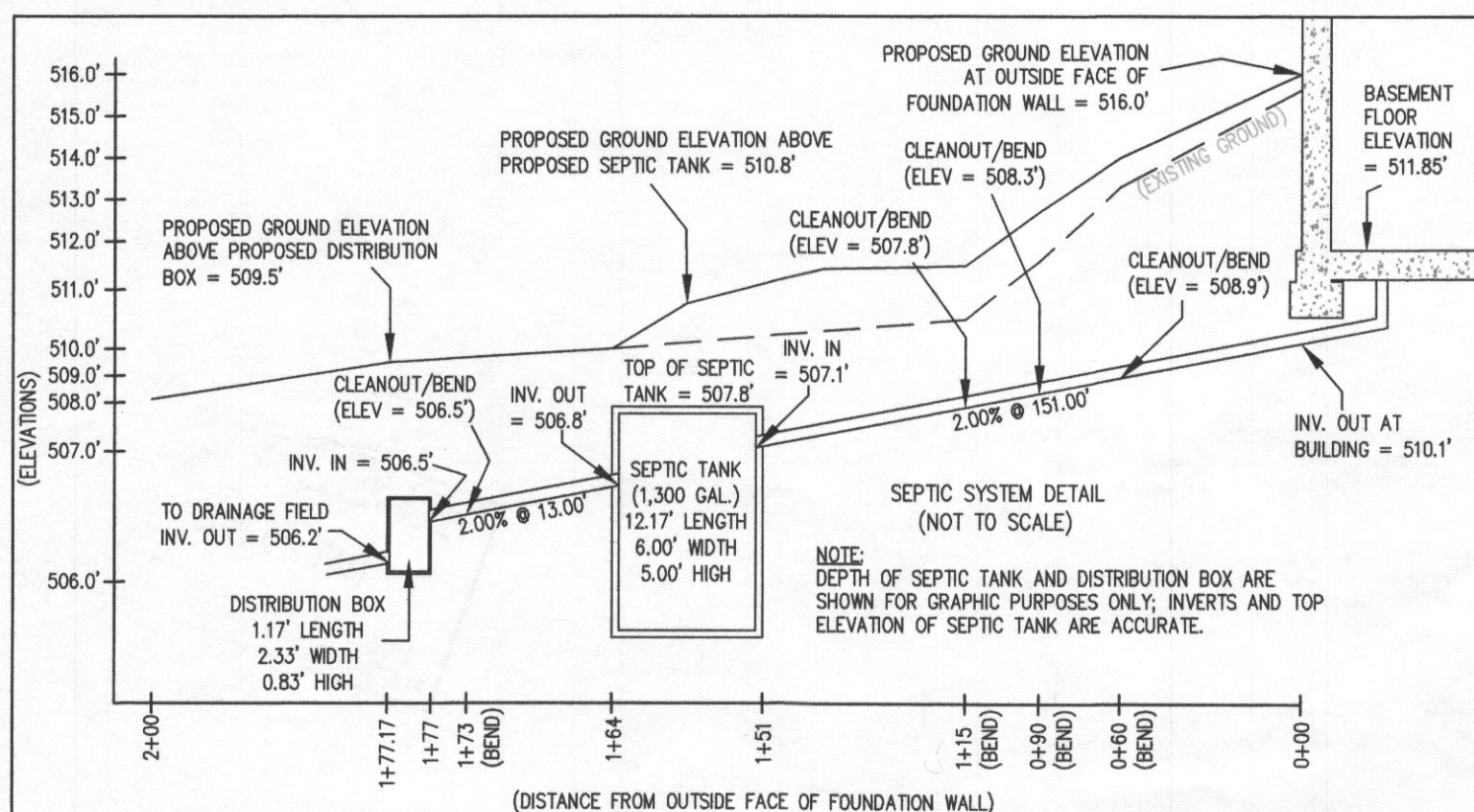




#### GENERAL NOTES (ADDITIONAL):

REVISED PLAN SHOWN HEREON IS TO CHANGE THE SEPTIC TANK THAT IS BEING INSTALLED ONLY, ALL CALCULATIONS ARE TO REMAIN THE SAME. THIS PLAN WAS APPROVED PREVIOUSLY WITH THE ECOPOD SYSTEM, BUT DUE TO THE MEMORANDUM FROM THE HOWARD COUNTY HEALTH DEPARTMENT DATED FEBRUARY 19, 2015; THOSE SYSTEMS ARE NO LONGER TO BE USED IF NOT INSTALLED BY MARCH 15, 2015.

Approved Septic System Plan  
Howard County Health Department  
Hank O'Sullivan 3/25/15  
Signature Date



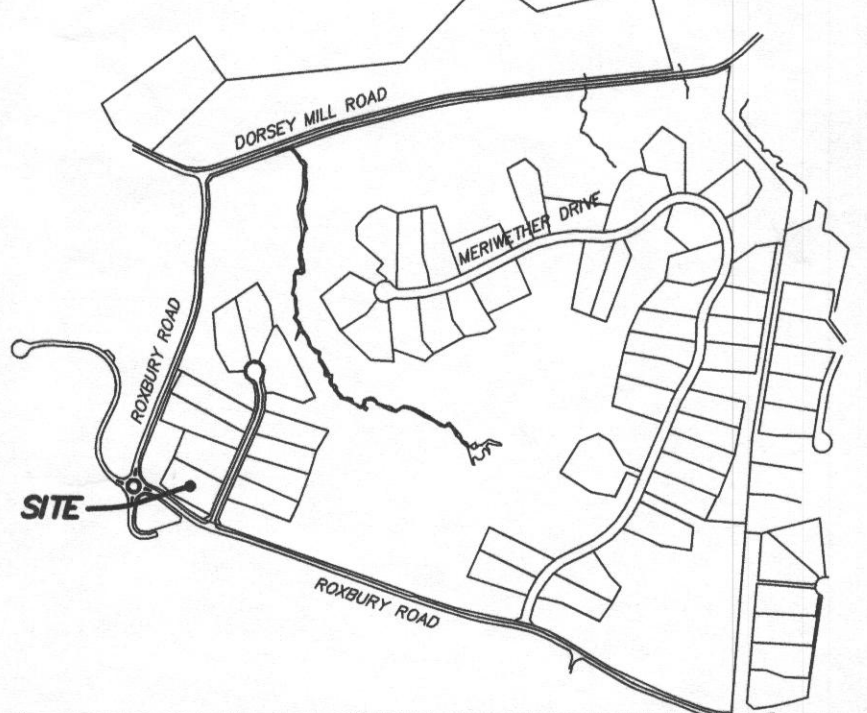
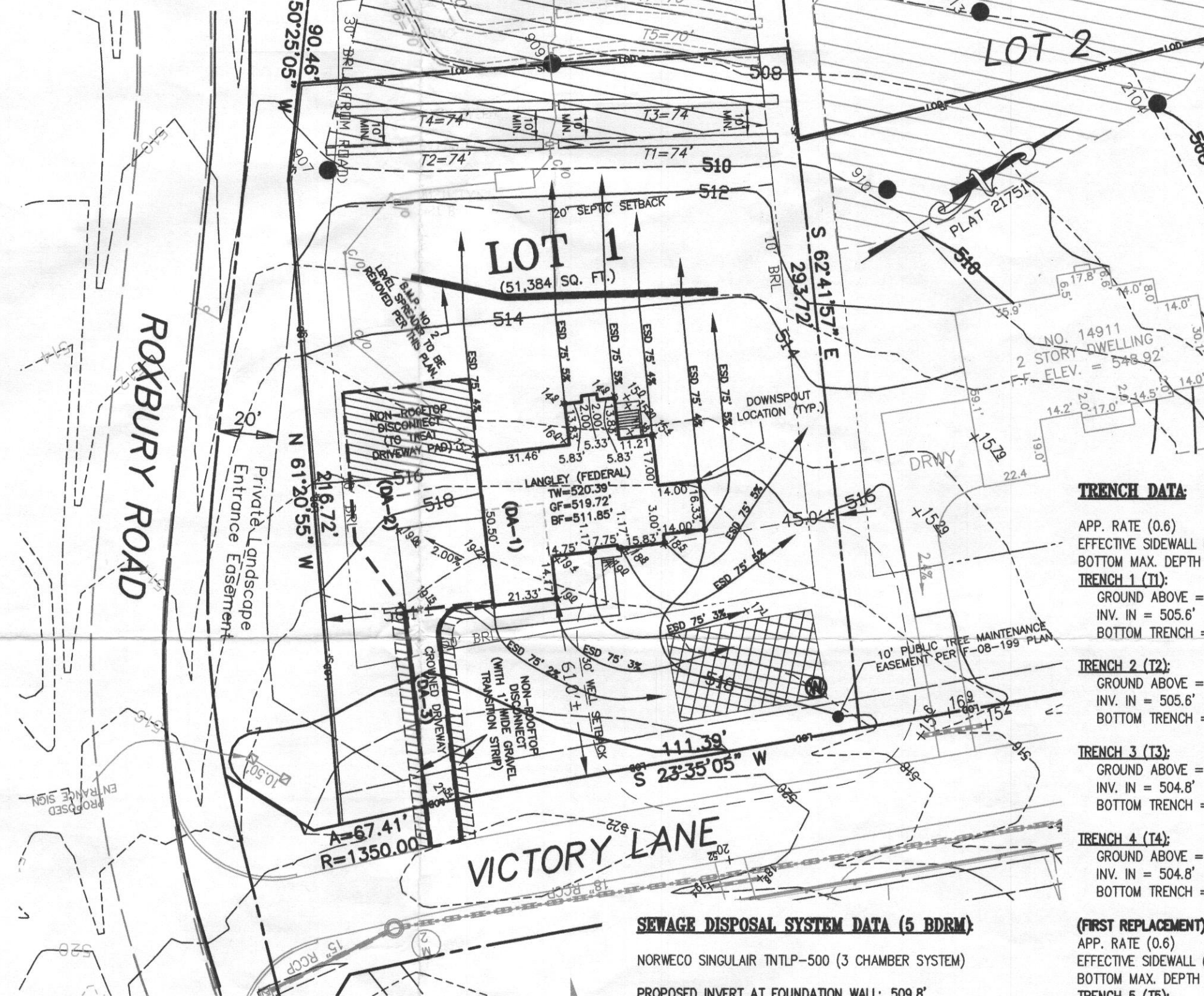
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/17.

#### HOUSE OPTIONS:

TYPE: LANGLEY (FEDERAL)  
THREE CAR SIDE ENTRY GARAGE  
DAYLIGHT BASEMENT  
EXPANDED FAMILY ROOM/GREAT ROOM  
ADD'L 1' TO HEIGHT OF BASEMENT FOUNDATION  
GUEST RETREAT OPTION NO.33

#### LEGEND:

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



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. 21751.
- 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 06/06/13.
- 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: 43,441 SQ. FT. / 1.00 AC.±
- STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY PREVIOUSLY APPROVED PLAN F-08-199
- 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 MARYLAND 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 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.
- 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-08-199.
- A STANDARD SEDIMENT CONTROL PLAN MAY BE USED FOR DEVELOPMENT OF THIS LOT. REFERENCE GRADING PLAN DATED 12/18/13.
- THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-2079 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 "±" HAVE AN ACCURACY OF ±0.1' FOOT.
- CULVERT FOR DRIVEWAY IS NOT NEEDED AS SHOWN ON SHEET 7 OF 15 OF THE STORM DRAIN PROFILES PLAN IN A COLUMN LABELED "DRIVEWAY FOR CULVERT DATE", PER F-08-199 PLAN.

#### TRENCH DATA:

APP. RATE (0.6)  
EFFECTIVE SIDEWALL (6')  
BOTTOM MAX. DEPTH (7.5')  
TRENCH 1 (T1):  
GROUND ABOVE = 509.6'  
INV. IN = 505.6'  
BOTTOM TRENCH = 502.1'

TRENCH 2 (T2):  
GROUND ABOVE = 509.6'  
INV. IN = 505.6'  
BOTTOM TRENCH = 502.1'

TRENCH 3 (T3):  
GROUND ABOVE = 508.8'  
INV. IN = 504.8'  
BOTTOM TRENCH = 501.3'

TRENCH 4 (T4):  
GROUND ABOVE = 508.8'  
INV. IN = 504.8'  
BOTTOM TRENCH = 501.3'

(FIRST REPLACEMENT)  
APP. RATE (0.6)  
EFFECTIVE SIDEWALL (6')  
BOTTOM MAX. DEPTH (7')  
TRENCH 5 (T5):  
GROUND ABOVE = 507.8'  
INV. IN = 505.8'  
BOTTOM TRENCH = 500.8'

TRENCH 6 (T6):  
GROUND ABOVE = 508.0'  
INV. IN = 506.0'  
BOTTOM TRENCH = 501.0'

TRENCH 7 (T7):  
GROUND ABOVE = 506.9'  
INV. IN = 504.9'  
BOTTOM TRENCH = 499.9'

TRENCH 8 (T8):  
GROUND ABOVE = 507.4'  
INV. IN = 505.4'  
BOTTOM TRENCH = 500.4'

TRENCH 9 (T9):  
GROUND ABOVE = 505.9'  
INV. IN = 503.9'  
BOTTOM TRENCH = 498.9'

#### SEWAGE DISPOSAL SYSTEM DATA (5 BDRM):

NORMECO SINGULAR TINTL-500 (3 CHAMBER SYSTEM)

PROPOSED INVERT AT FOUNDATION WALL: 509.8'

1. EX. GRADE OVER TANK: 510.0'  
PROPOSED GRADE OVER TANK: 510.8'  
INVERT IN: 507.1' INVERT OUT: 506.8'

2. DISTRIBUTION BOX:  
EXISTING GRADE OVER BOX: 509.5'  
PROPOSED GRADE OVER BOX: 509.5'  
INVERT IN: 506.5' INVERT OUT: 506.2'

3. TRENCH DESIGN:  
(5 BDRM x 150 GPD/BDRM = 750 GPD)  
750 GPD ÷ 0.8 APP. RATE = 1,250 SF  
USE 3' WIDE TRENCH WITH 42" GRAVEL BELOW PIPE  
10' MIN. SPACING BETWEEN TRENCH EDGES  
1,250 SF ÷ 3' WIDTH = 416.67 LF x 0.71 = 295.84 LF MIN. TRENCH  
USE 4 74' LONG TRENCHES = 296 LF

4. TRENCH DESIGN, FIRST REPLACEMENT:  
(5 BDRM x 150 GPD/BDRM = 750 GPD)  
750 GPD ÷ 0.8 APP. RATE = 1,250 SF  
USE 3' WIDE TRENCH WITH 60" GRAVEL BELOW PIPE  
10' MIN. SPACING BETWEEN TRENCH EDGES  
1,250 SF ÷ 3' WIDTH = 416.67 LF x 0.83 = 345.84 LF MIN. TRENCH  
USE 5 70' LONG TRENCHES = 350 LF

#### 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

DIRECTOR

PROFESSIONAL ENGINEER

DATE

DATE

DATE

SITE PLAN FOR BAT INSTALLATION  
LOT 1  
MERIWETHER FARMS  
LIBER 13779, FOLIO 473  
PLAT No. 21751  
TAX No. 04-593610  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
ADDRESS: 14905 VICTORY LANE  
GLENELG, MARYLAND

ESE Consultants Inc.  
7164 Columbia Gateway Dr.  
Suite 230  
Columbia, MD 21046  
TEL: 410-872-9105  
FAX: 410-872-4870

DATE: 03/15/15  
CHK'D: M.J.B.

SCALE: 1"=40'  
JOB NO: 3184

FILE: BAT LOT 1\_rev1  
DRAWN: R.C.K.