



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: 11-19-15 **ONSITE SEWAGE DISPOSAL SYSTEM** P 557464
 APPROVAL DATE: 5/19/16 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 11211 Independence Way
 SUBDIVISION: Homewood Crossing LOT: 46 TAX ID: 05-443083
 CONTRACTOR: Fogle's Septic Clean Inc. EMAIL: kevin@foglesinc.com
 CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784 PHONE: 410-795-5670

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: MDE MANUFACTURER:

PROPERTY OWNER: Toll MD III LP EMAIL: _____
 OWNER ADDRESS: 14590 Edgewoods Way, Glenelg, MD 21042 PHONE: 410-489-2275

BAT UNIT MODEL: Norweco TNTLP-500 PUMP SIZE: _____ PUMP TANK CAPACITY: 1300

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: _____ DATE RECORDED: _____

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 0.6
0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>260.42</u>	INLET DEPTH: <u>4' 5"</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>9</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>7</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: Use 5 x 52.20' long trenches.

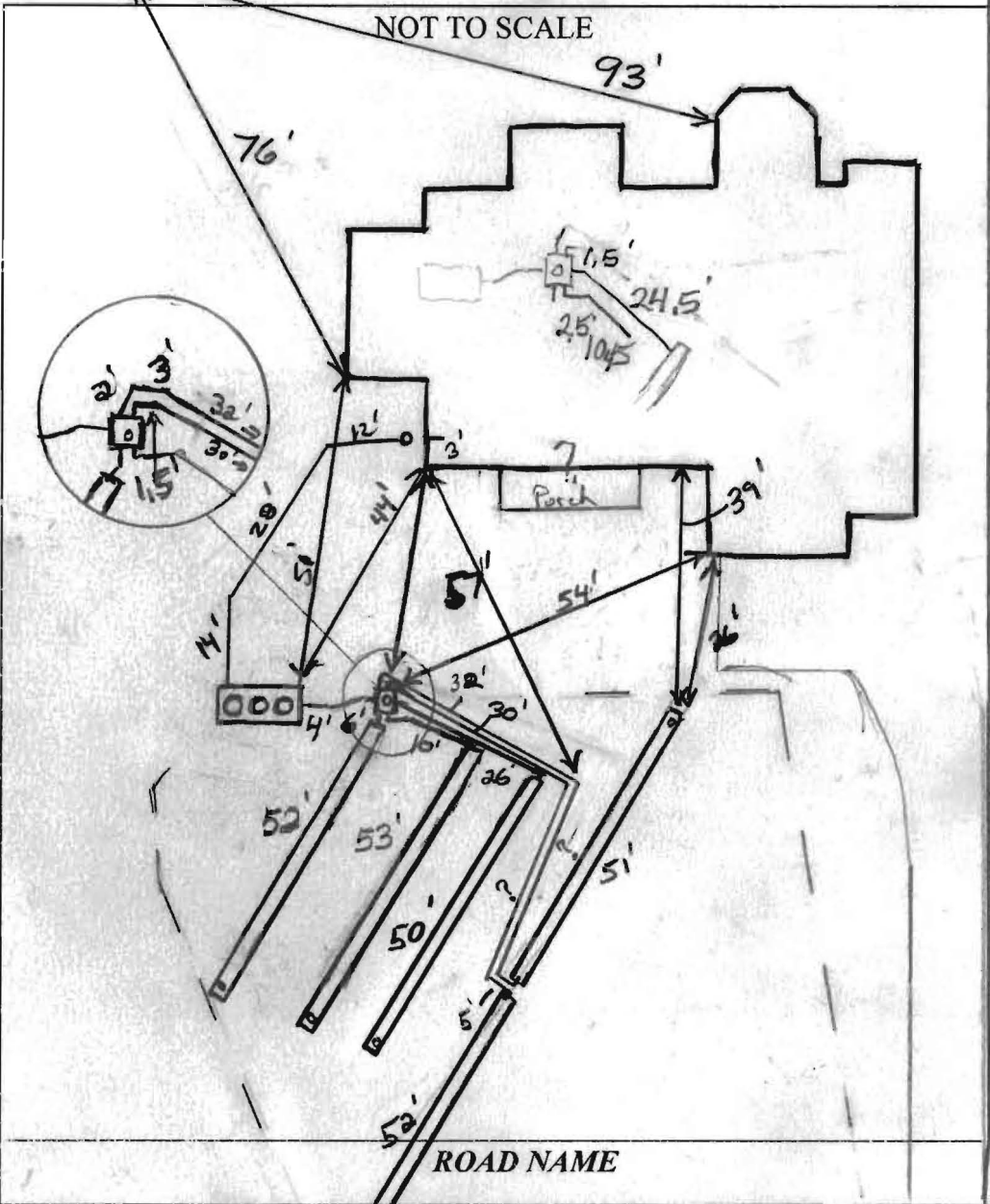
ISSUED BY: Hank Oswald ISSUE DATE: 1-6-16 EXPIRATION DATE: 11-19-16

- 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 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 16000065
- 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.**

HO-95-1254

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	5'	9'
NUMBER OF TRENCHES		5
TOTAL LENGTH		260'
ABSORPTION AREA		774'+SW
DISTRIBUTION BOX LEVEL		Levelers
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	Yes
MANUFACTURER	Norweco
CAPACITY	1300 GAL
SEAM LOC	Top
TANK LID DEPTH	2-4' TBD
BAFFLES	No
BAFFLE FILTER	N/A
MANHOLE LOC	Front, Middle + Rear
6" PORT LOC	None
WATERTIGHT TEST	No
SLOTTED	N/A
DATE ON LID	Dry

PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	N/A
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____
SLOTTED	_____
DATE ON LID	_____

PRE-CONSTRUCTION:

1/12/16 Met Fogle on site for layout. All SDA and tank stakes present. Lots of construction equipment in SDA is preventing us from shooting contour - Tell Bros. must move before trenches can be laid out. Contour is opposite of that shown on BAT site plan - looks like some grade was removed. Confirm with Tell Bros. (C)

1/21/16 On site for layout. No tank stake for new location, upper SDA stake missing. Dumpster in SDA over future trenches. Postpone layout until all are fixed (C) 2/3/16 - All but one stake in

INSTALLATION: place-tie one located in the driveway was not in place, heavy equipment, a dumpster and bldg material sitting in SDA. See plan (C) 2/12/16 Met Fogle's on site for layout. All SDA stakes present or marked with pins; tank staked. Plumbing in basement not changed to new SHC shown on BAT plan - called David Frat w/ Tell Bros. and plumber will connect where Fogle's joins line with house. Laid out 5x53' trenches on contour - slightly different than contour on BAT plan but ends are the same. (C) 2/17/2016 Tank and dist. box set. (CB) 2/18/2016 Working on top trenches. (BB) 2/19/2016 Working on middle trench. (CC) 2/22/16 SHC installed from BAT unit up to house. No penetration thru wall. Dosa leveled. Trenches complete. OK to cover (C)

2/12/16 Met Fogle's on site for layout. All SDA stakes present or marked with pins; tank staked. Plumbing in basement not changed to new SHC shown on BAT plan - called David Frat w/ Tell Bros. and plumber will connect where Fogle's joins line with house. Laid out 5x53' trenches on contour - slightly different than contour on BAT plan but ends are the same. (C) 2/17/2016 Tank and dist. box set. (CB) 2/18/2016 Working on top trenches. (BB) 2/19/2016 Working on middle trench. (CC) 2/22/16 SHC installed from BAT unit up to house. No penetration thru wall. Dosa leveled. Trenches complete. OK to cover (C)

FINAL INSPECTOR

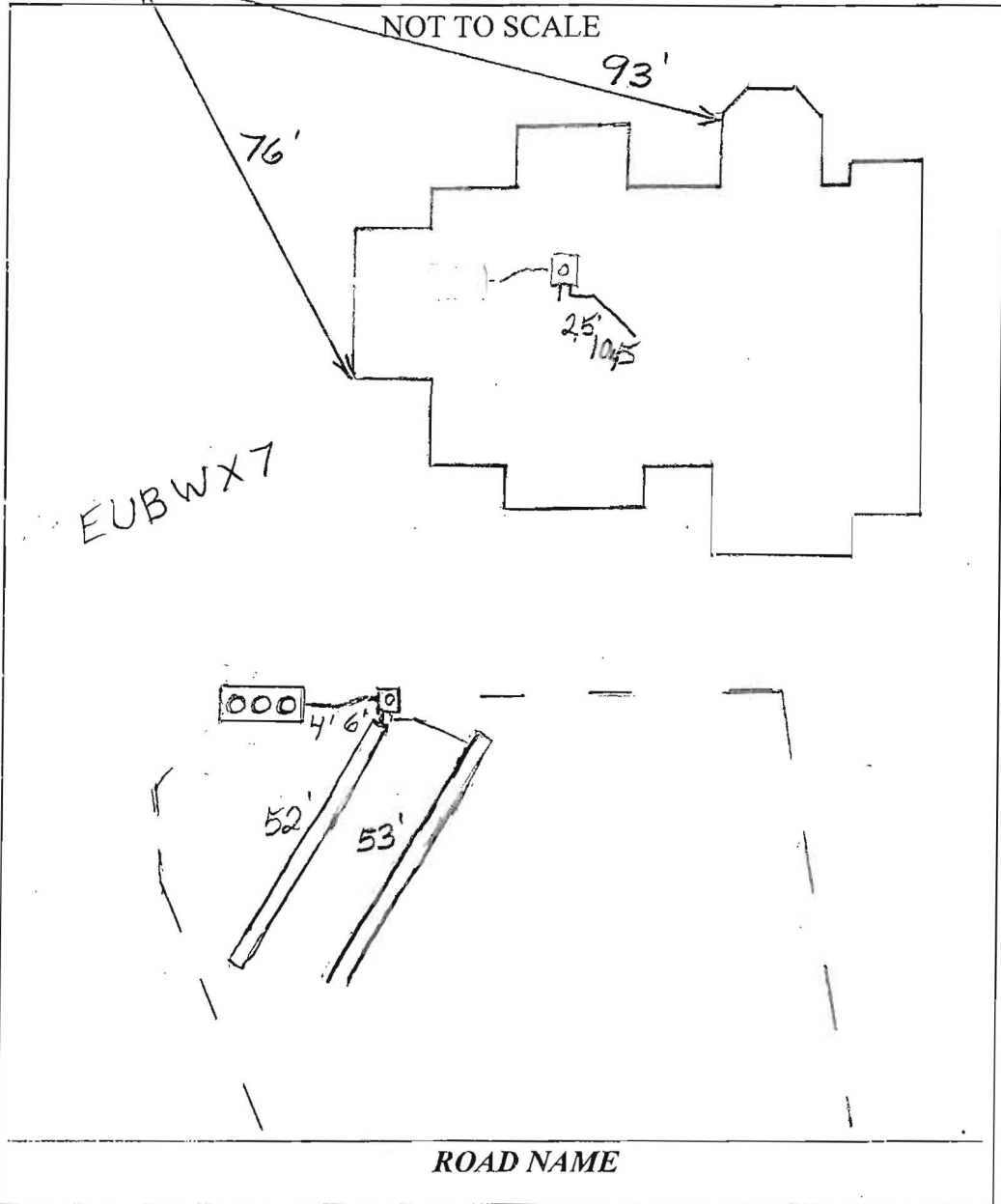
[Signature]

DATE OF APPROVAL

5/19/16

HO-95-1254

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	5'	9'

NUMBER OF TRENCHES _____
 TOTAL LENGTH _____
 ABSORPTION AREA _____
 DISTRIBUTION BOX LEVEL _____
 DISTRIBUTION BOX BAFFLE Yes
 DISTRIBUTION BOX PORT Yes

SEPTIC TANK DATA

SEPTIC TANK I LEVEL Yes
 MANUFACTURER Norweco
 CAPACITY 1300 GAL
 SEAM LOC Top
 TANK LID DEPTH 2'-4" ? TED
 BAFFLES No
 BAFFLE FILTER N/A
 MANHOLE LOC Front, Middle + Rear
 6" PORT LOC None
 WATERTIGHT TEST No
 SLOTTED N/A
 DATE ON LID Dry

~~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:

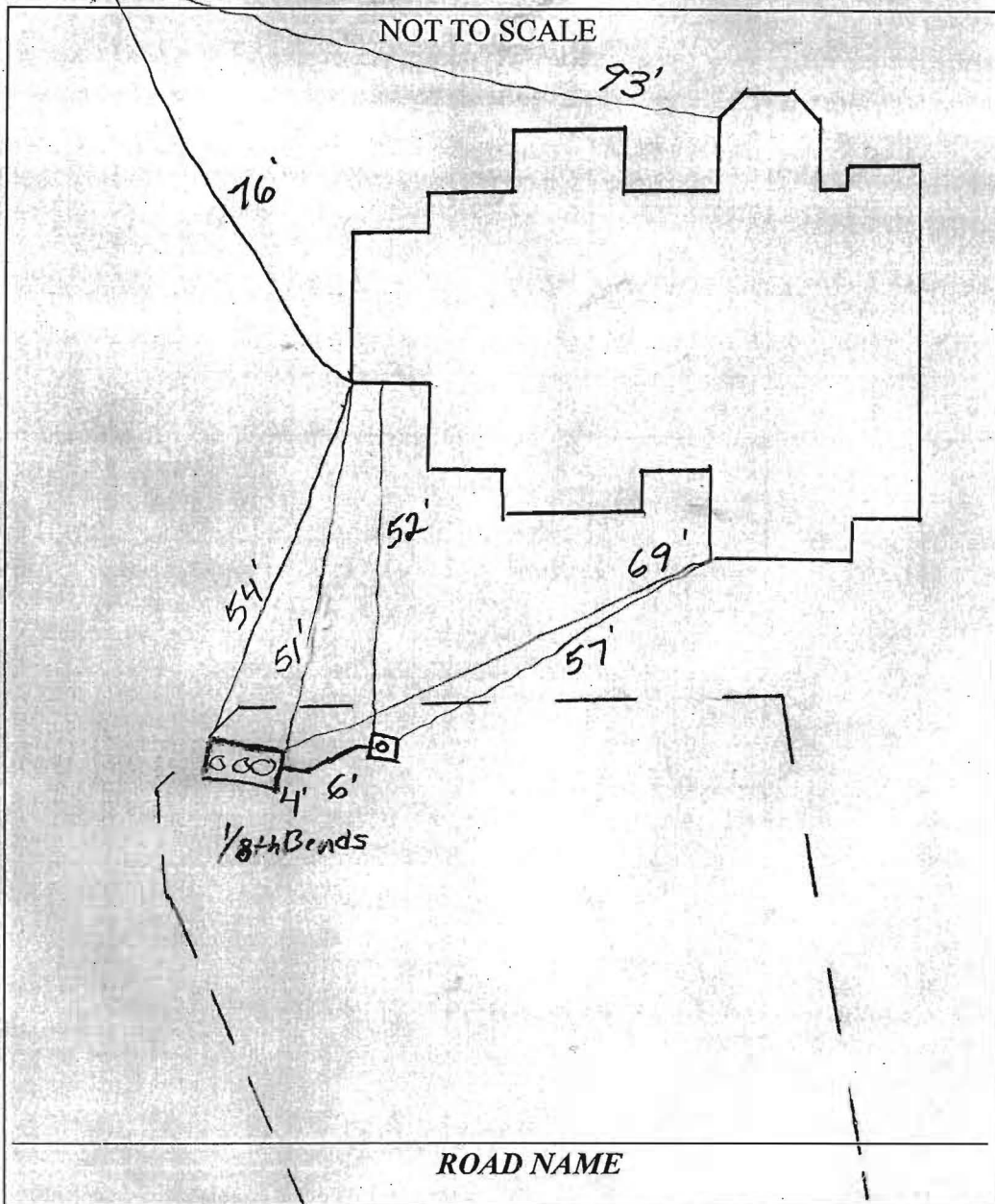
1/12/16 Met Fogle's on site for layout. All SDA and tank stakes present. Lots of construction equipment in SDA is preventing us from shooting contour - Tell Bros. must move before trenches can be laid out. Contour is opposite of that shown on BAT site plan - looks like some grade was removed. Confirm with Tell Bros. (S)

1/21/16 On site for layout. No tank stake for new location, upper ^{SE corner} SDA stake missing. Dumpster in SDA over future trenches. Postpone layout until all are fixed. (S) 2/3/16 - All but one stake in

INSTALLATION: place the one located in the driveway was not in place, heavy equipment, a dumpster and bldg material sitting in SDA. See pic (S)

2/12/16 Met Fogle's on site for layout. All SDA stakes present or marked with pins; tank staked. Plumbing in basement not changed to new SHC shown on BAT plan - called David Erat w/ Tell Bros. and plumber will connect where Fogle's joins line with house. Laid out 5x53' trenches on contour - slightly different than contour on BAT plan but ends are the same. (S) 2/17/2016 Tank and dist. box set. (S)

2/18/2016 Working on top trenches. (S)



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
_____	_____	_____
NUMBER OF TRENCHES _____		
TOTAL LENGTH _____		
ABSORPTION AREA _____		
DISTRIBUTION BOX LEVEL _____		
DISTRIBUTION BOX BAFFLE _____		
DISTRIBUTION BOX PORT <u>Yes</u>		

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	<u>Yes</u>
MANUFACTURER	<u>Norweco</u>
CAPACITY	<u>1300</u> GAL
SEAM LOC	<u>Top</u>
TANK LID DEPTH	<u>2-4</u> ?
BAFFLES	<u>No</u>
BAFFLE FILTER	<u>N/A</u>
MANHOLE LOC	<u>Front, Middle + Rear</u>
6" PORT LOC	<u>None</u>
WATERTIGHT TEST	<u>No</u>
SLOTTED	<u>N/A</u>
DATE ON LID	<u>Dry</u>

PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	<u>N/A</u>
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____
SLOTTED	_____
DATE ON LID	_____

PRE-CONSTRUCTION:

1/12/16 Met Fogle's on site for layout. All SDA and tank stakes present. Lots of construction equipment in SDA is preventing us from shooting contour - Toll Bros. must move before trenches can be laid out. Contour is opposite of that shown on BAT site plan - looks like some grade was removed. Confirm with Toll Bros. (SC)

1/21/16 On site for layout. No tank stake for new location. Upper ^{SE corner} SDA stake missing. Dumpster in SDA over future trenches. Postpone layout until all are fixed (SC)

2/3/16 - All but one stake in ^{SE corner} SDA. place-tie one located in the driveway was not in place, heavy equipment, a dumpster and bldg material sitting in SDA. See pic (SC)

2/12/16 Met Fogle's on site for layout. All SDA stakes present or marked with pin; tank staked. Plumbing in basement not changed to new SHC shown on BAT plan - called David Erat w/ Toll Bros. and plumber will connect where Fogle's joins line with house. Laid out 5x53' trenches on contour - slightly different than contour on BAT plan but ends are the same. (SC) 2/17/2016 Tank and dist. box set. (BB)



MAYER BROS., INC.

Precast Concrete Products

6264 Race Rd. Elkridge, MD 21075

Letter of Satisfaction Hoot System Installation

Address of Property: 5016 Bee Frances Way
Clarksville, MD, 21029

Date of Final Inspection: 5/17/16

Installer: South Carroll Backhoe Service

Hoot Technician/Inspector: Mike Sample

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,

N. Michael Aaga
Name of Inspector
Mayer Bros., Inc.

PH: 410-796-1434

FX: 410-796-1438

WBE

NPCA Certified Plant

mayerbro@comcast.net

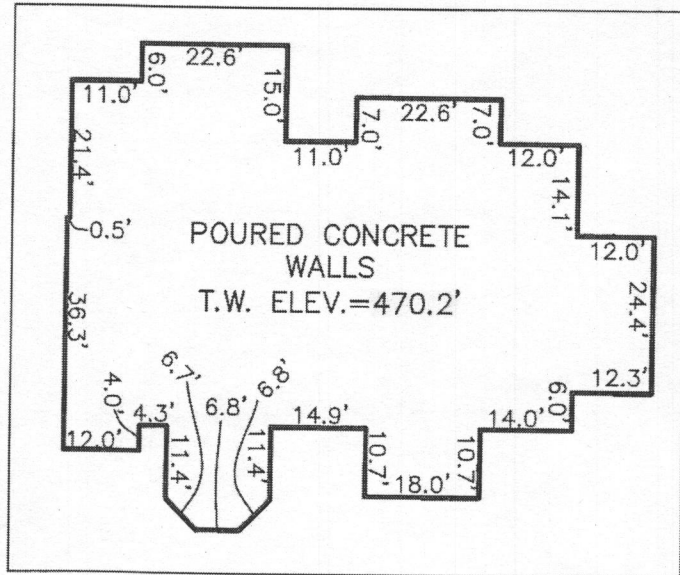
www.mayerbrosprecast.com

Grease Interceptors, Grease Solutions, Aerobic Treatment Units, Septic Tanks, Holding Tanks, Storm Water Structures, Hydroceptors, Borch Barrier, Water Meter Vaults, Sectional Valve Vaults, Top Slabs, Catch Basins, Catch Basins, Storm Entry Basement Entries, Sump/Wall Window Walls, Custom Precast Products

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.

LEGEND:

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



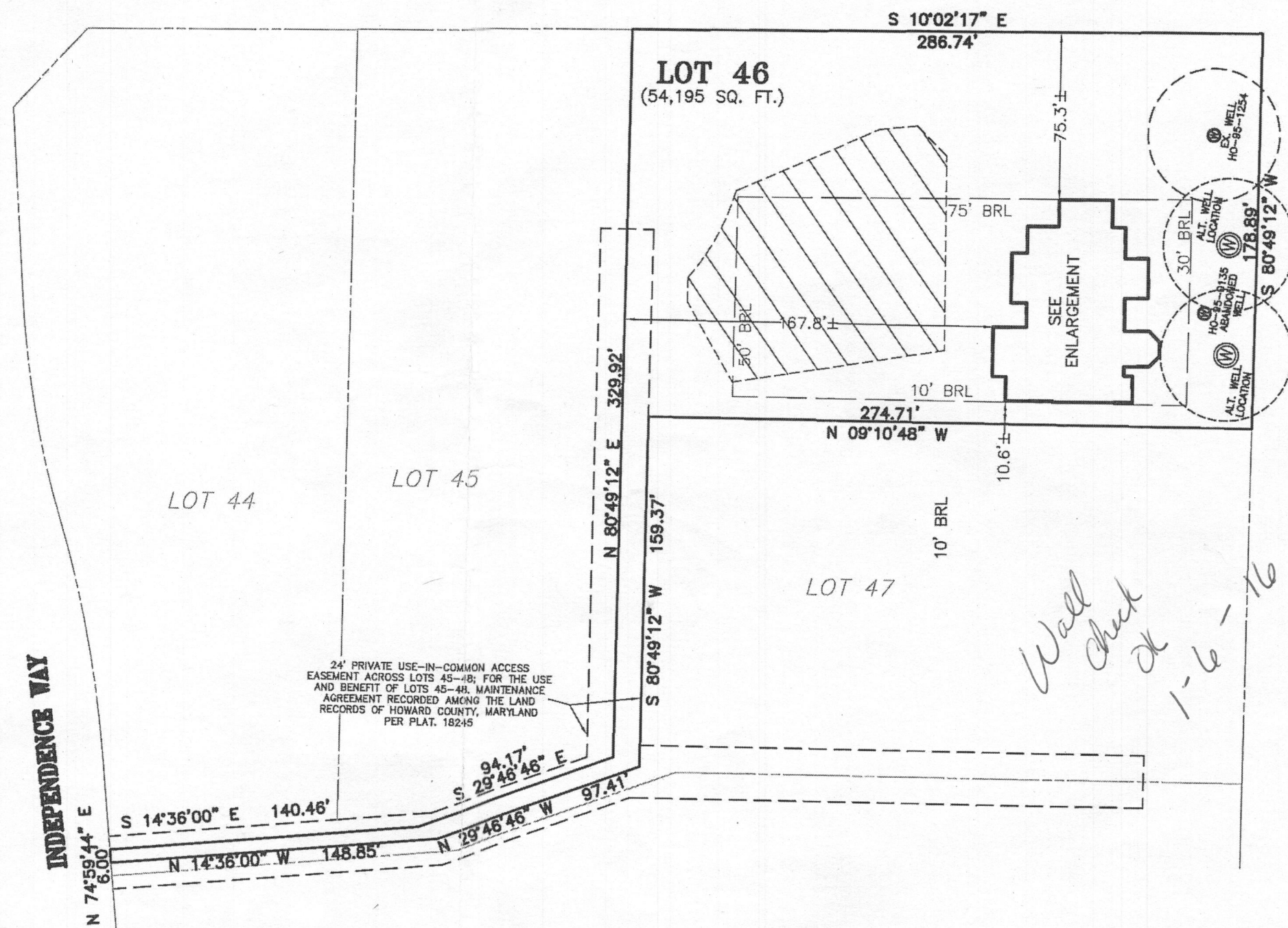
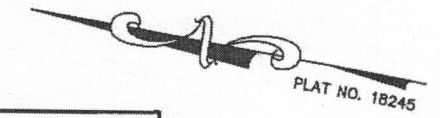
ENLARGEMENT
SCALE: 1"=30'

WELL NUMBER: HO-95-1254

ADDRESS: 11211 INDEPENDENCE WAY
ELLCOTT CITY, MD 21043

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

HOMEWOOD ROAD

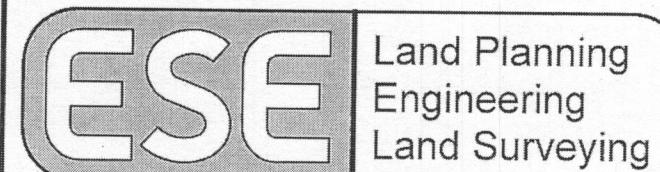


SURVEYOR'S CERTIFICATE

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.
DATE: 10/21/15

WALL CHECK
LOT 46
HOMEWOOD CROSSING
LIBER 9808, FOLIO 204
PLAT NO. 18245
ELECTION DISTRICT No. 5
HOWARD COUNTY, MARYLAND



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

DATE: 10/21/15
CHK'D: M.J.B.

SCALE: 1"=60'
JOB NO: 1214

FILE: WC LOT 46
DRAWN: V.X.P.

Patuxent Chase

Lot 46 11211 Independence Way

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 Broths Inc
Reference/Control #: 107

LR - Agreement Surcharge
1x 40.00 40.00

=====
SubTotal: 60.00
Total: 60.00

=====
REV-Check-BOA 60.00
Number : 09663508

12/28/2015 13:11 CC13-NN
#5357587 /396/109

Thank you for visiting us today"

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 11211 Independence Way, Ellicott City, MD 21042 February 15, 2016 was installed according to the manufacture's specifications.

Installer: Ed Klingelhofer

Property Owner: Toll MD III Limited Partnership

Permit #



MATTHEW GECKLE

Vice-President



Bureau of Environmental Health

8930 Stanford Blvd, Columbia, MD 21045
Main: 410-313-2640 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org

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

January 13, 2016

MEMORANDUM

TO: Toll Brothers, Inc.
Sent via email to David Erat (DERAT@tollbrothersinc.com) on 1/13/16

FROM: Sarah Collins, L.E.H.S. SEC
Howard County Health Department
Well and Septic Program

RE: 11211 Independence Way
BAT site plan

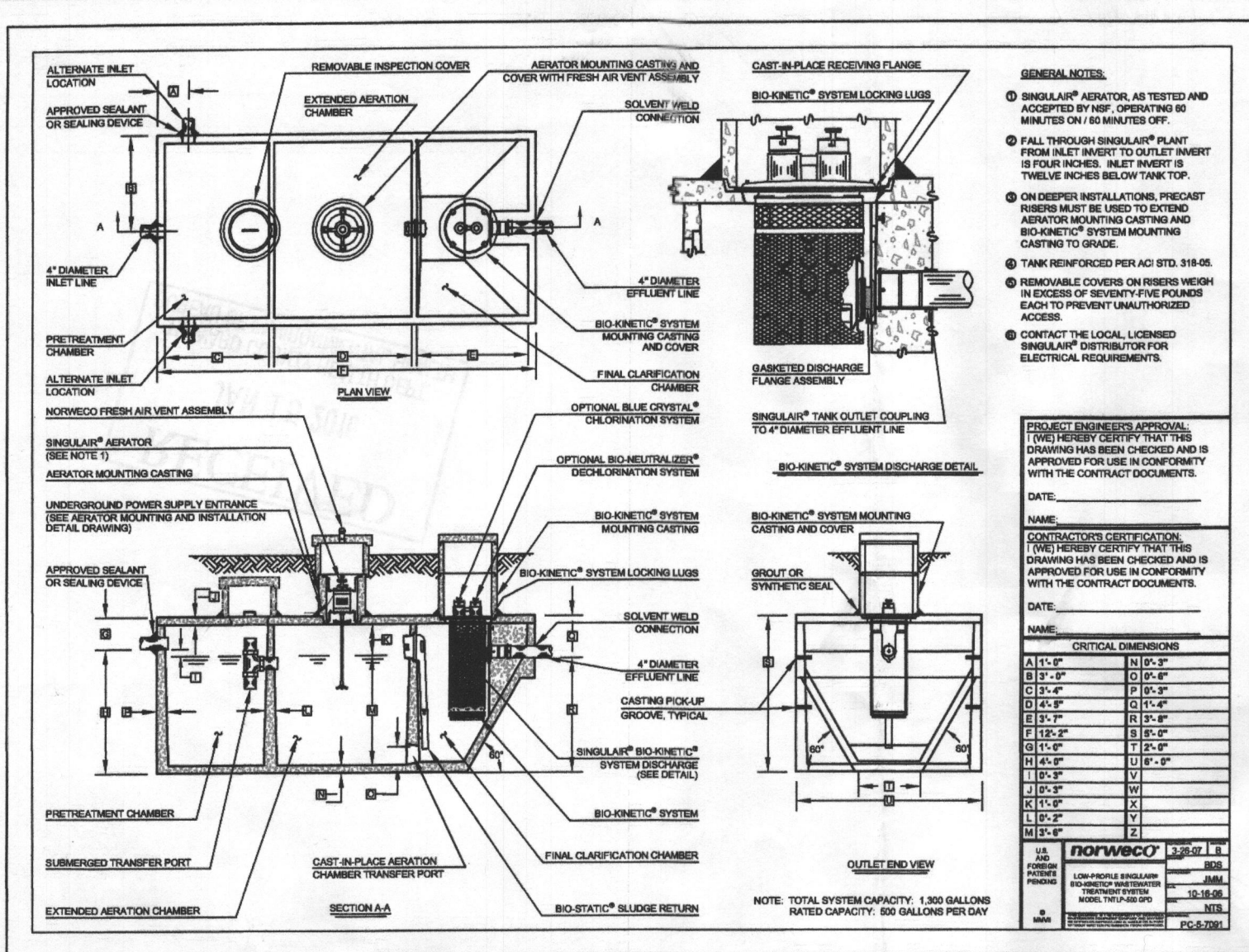
During a pre-construction meeting at 11211 Independence Way with Fogle's Septic Clean, Inc. on 1/12/16, the Health Department observed several inconsistencies with the current BAT site plan.

The septic house connection is different than shown on the BAT site plan. The plan shows it coming out on the eastern face, while it actually connects on the northern face. Additionally, in its current proposed location, the BAT tank would have more than the maximum three feet of cover.

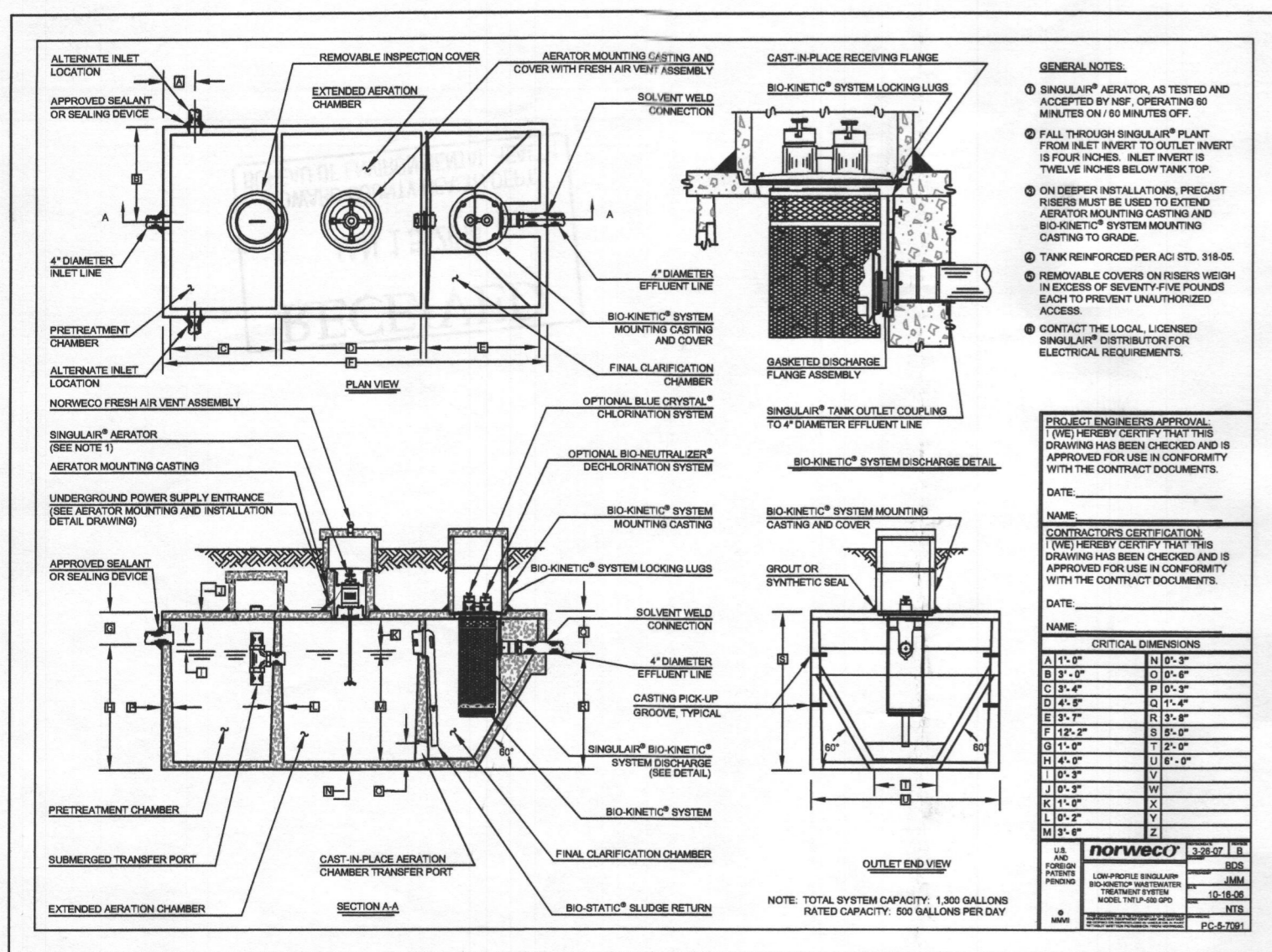
Please address these two issues and submit a revised BAT site plan to the Health Department. No work may be done on the septic system until a new plan is approved.

Cc: Kevin Davis, Fogle's Septic Clean, Inc. (kevin@foglesinc.com)
Ryan Ketner (rketner@eseeng.com)
File

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.



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.



GENERAL NOTES:

- SINGULAR® AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 80 MINUTES ON 60 MINUTES OFF.
- FALL THROUGH SINGULAR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
- ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE.
- TANK REINFORCED PER ACI STD. 318-05.
- REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
- CONTACT THE LOCAL LICENSED SINGULAR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

PROJECT ENGINEER'S APPROVAL:
I HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.

DATE: _____
NAME: _____

CONTRACTOR'S CERTIFICATION:
I HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.

DATE: _____
NAME: _____

CRITICAL DIMENSIONS:

A11.5"	D12.5"
B15.5"	E15.5"
C15.5"	F15.5"
G15.5"	H15.5"
I15.5"	J15.5"
K15.5"	L15.5"
M15.5"	N15.5"
O15.5"	P15.5"
Q15.5"	R15.5"
S15.5"	T15.5"
U15.5"	V15.5"
W15.5"	X15.5"
Y15.5"	Z15.5"

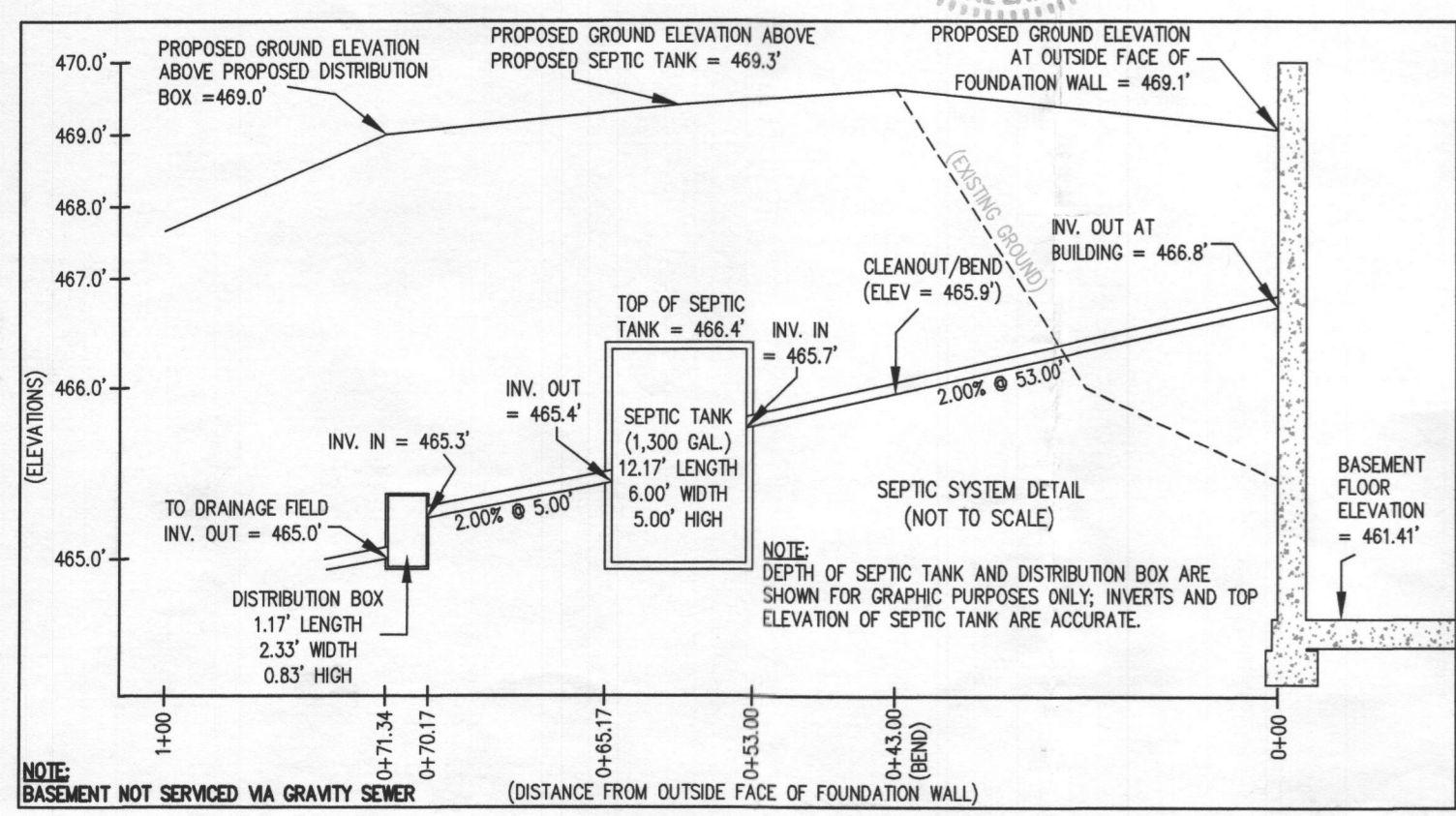
NOTE: TOTAL SYSTEM CAPACITY: 1,300 GALLONS
RATED CAPACITY: 500 GALLONS PER DAY

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

Approved Septic System Plan
Howard County Health Department
Hank Oswald 1/19/16
Signature Date

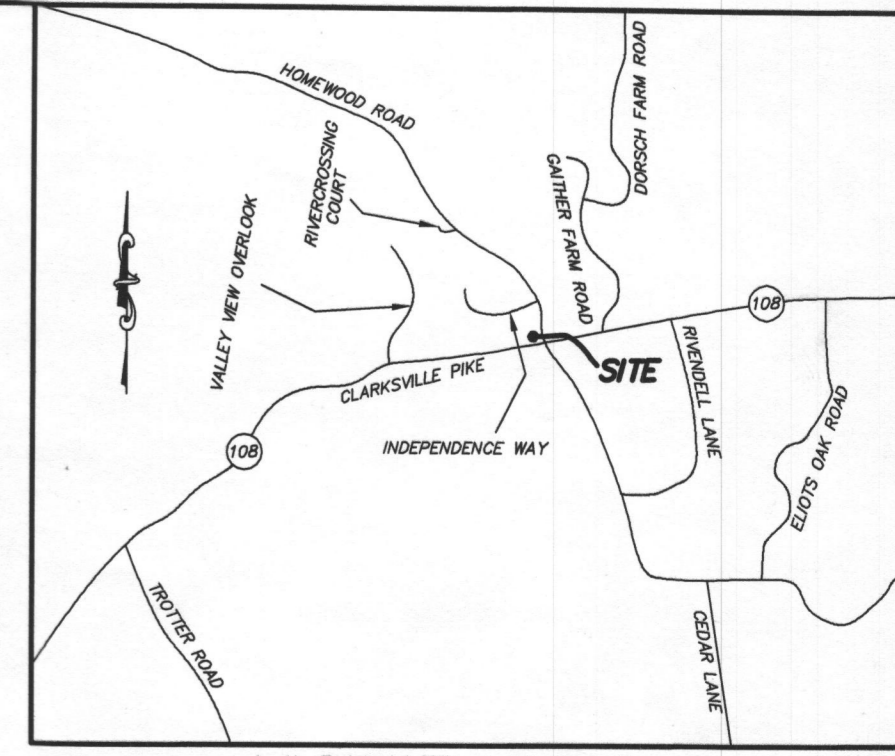
HOUSE OPTIONS:

HOUSE TYPE: HENLEY (CAROLINA)	OPTION 018
DAYLIGHT BASEMENT	OPTION 023
EXPANDED FAMILY ROOM/GREAT ROOM	OPTION 024
ADD'L FRONT ENTRY GARAGE	OPTION 070
ADD'L 1' TO BASEMENT FOUNDATION WALLS	OPTION 377
ADD'L POWDER ROOM-FIRST/SECOND FLOOR	OPTION 529
NAPLES SUNROOM ADDITION	OPTION 263008
FAMILY SUITE - REDUCED TO 12'	OPTION 263021
12' WIDE CONSERVATORY ELITE ADDITION	OPTION 263023
12' WIDE BEDROOM SUITES ABOVE ELITE	



- 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.

- SEWAGE DISPOSAL SYSTEM DATA (5 BDRM):**
- NORWECO SINGULAR TINTLP-500 (3 CHAMBER SYSTEM)
- PROPOSED INVERT AT FOUNDATION WALL: 466.8'
- EXISTING GRADE OVER TANK: 469.3'
PROPOSED GRADE OVER TANK: 469.3'
INVERT IN: 465.7' INVERT OUT: 465.4'
 - DISTRIBUTION BOX:
EXISTING GRADE OVER BOX: 469.0'
PROPOSED GRADE OVER BOX: 469.0'
INVERT IN: 465.3' INVERT OUT: 465.0'
 - TRENCH DESIGN:
(5 BDRM x 150 GPD/BDRM = 750 OPD)
750 GPD @ 0.6 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 0.625 = 260.42 LF MIN. TRENCH
USE 5 52.20' LONG TRENCHES = 261 LF
- BASEMENT NOT SERVICED VIA GRAVITY SEWER**



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. 18243.
 - 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: 36,980 SQ. FT. / 0.85 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 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. CHANGES TO SEPTIC AREA WERE MADE PER "PERCOLATION CERTIFICATION REVISION PLAN" DATED 04/24/2015 AND IS CURRENTLY UNDER REVIEW.
 - 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.
 - THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-1254 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 "±" HAVE AN ACCURACY OF ±0.1' FOOT.
 - NO CULVERT FOR DRIVEWAY PER F-05-069.
 - BOTTOM MAX DEPTH OF SEPTIC TRENCHES WAS CHANGED TO 9' PER HOWARD COUNTY HEALTH DEPARTMENT'S SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET DATED 11/19/2014 AND REVISED ON 05/07/2015.

APPROVED: FOR HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DIRECTOR

PROFESSIONAL ENGINEER

DATE _____
DATE _____
DATE _____

SITE PLAN FOR BAT INSTALLATION
LOT 46
HOMEWOOD CROSSING
LIBER 9808, FOLIO 204
PLAT No. 18243
TAX No. 05-443083
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
ADDRESS: 11211 INDEPENDENCE WAY
ELLCOTT CITY, MARYLAND

ESE Land Planning
Engineering
Land Surveying

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

DATE: 01/15/16 SCALE: 1"=40' FILE: BAT LOT 46_rev2
CHK'D: M.J.B. JOB NO.: 1214 DRAWN: R.C.K.