

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: 6/2/14

ONSITE SEWAGE DISPOSAL SYSTEM

P 546381

INSTALLATION
 APPROVAL DATE: 7/11/2014

**PERMIT
 CONSTRUCTION**

A _____

PROPERTY ADDRESS: 11215 Independence Way

SUBDIVISION: Homewood Crossing

LOT: 47

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 VIII LP

EMAIL: _____

OWNER ADDRESS: 7164 Columbia Gateway Drive, Columbia, MD 21046

PHONE: _____

BAT UNIT MODEL: Hoot ABNR

BAT UNIT SIZE: 750 GPD

PUMP CHAMBER CAPACITY (GALLONS): _____

PUMP SIZE: _____

NUMBER OF BEDROOMS: _____

HOUSE SQ. FT. _____

APPLICATION RATE: _____

DISTRIBUTION SYSTEM: GRAVITY FED

LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>See Bat Plan</u>	INLET DEPTH: <u>See Bat Plan</u>
	TRENCH WIDTH: <u>See Bat Plan</u>	MAXIMUM BOTTOM DEPTH: <u>See Bat Plan</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>See Bat Plan</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>See Bat Plan</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. Set distribution box per plan. Install trenches per plan. <i>3 x 70' Trenches 3' Wide Inlet 4', Bottom 8'</i>	

ISSUED BY: Jeff Williams

ISSUE DATE: 6/2/14

EXPIRATION DATE: 6/2/15

- 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 3' INLET 4' BOTTOM 8'

NUMBER OF TRENCHES 3

TOTAL LENGTH 216'

ABSORPTION AREA 648+Sidewall

DISTRIBUTION BOX LEVEL Yes

DISTRIBUTION BOX BAFFLE Elbow

DISTRIBUTION BOX PORT Yes

See As-Built Drawing
On Separate Sheet

SEPTIC TANK DATA

SEPTIC TANK I LEVEL Yes

MANUFACTURER HOOT

CAPACITY Over 2000 GAL

SEAM LOC Top

TANK LID DEPTH 2'-3.5'

BAFFLES Front

BAFFLE FILTER No

MANHOLE LOC Front+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 _____~~

ROAD NAME

PRE-CONSTRUCTION:

6/6/2014 Layout done. Install trenches and tank near where shown on plan. O.K. to set dist. box at nearest upper easement corner. (BB)

INSTALLATION: 6/6/2014 Need house connection (BB) 6/13/2014 Top trench installed. Trench is slightly downhill from the top of the easement due to a buried gas line. (BB)

6/16/2014 Trenches finished. Installer waiting for tank to be ready. (BB) 6/18/2014 Need house connection. Rest of plumbing finished. (BB) 7/7/2014 Pump and alarm not wired to electrical box. (BB) 7/11/2014 Pump and alarm

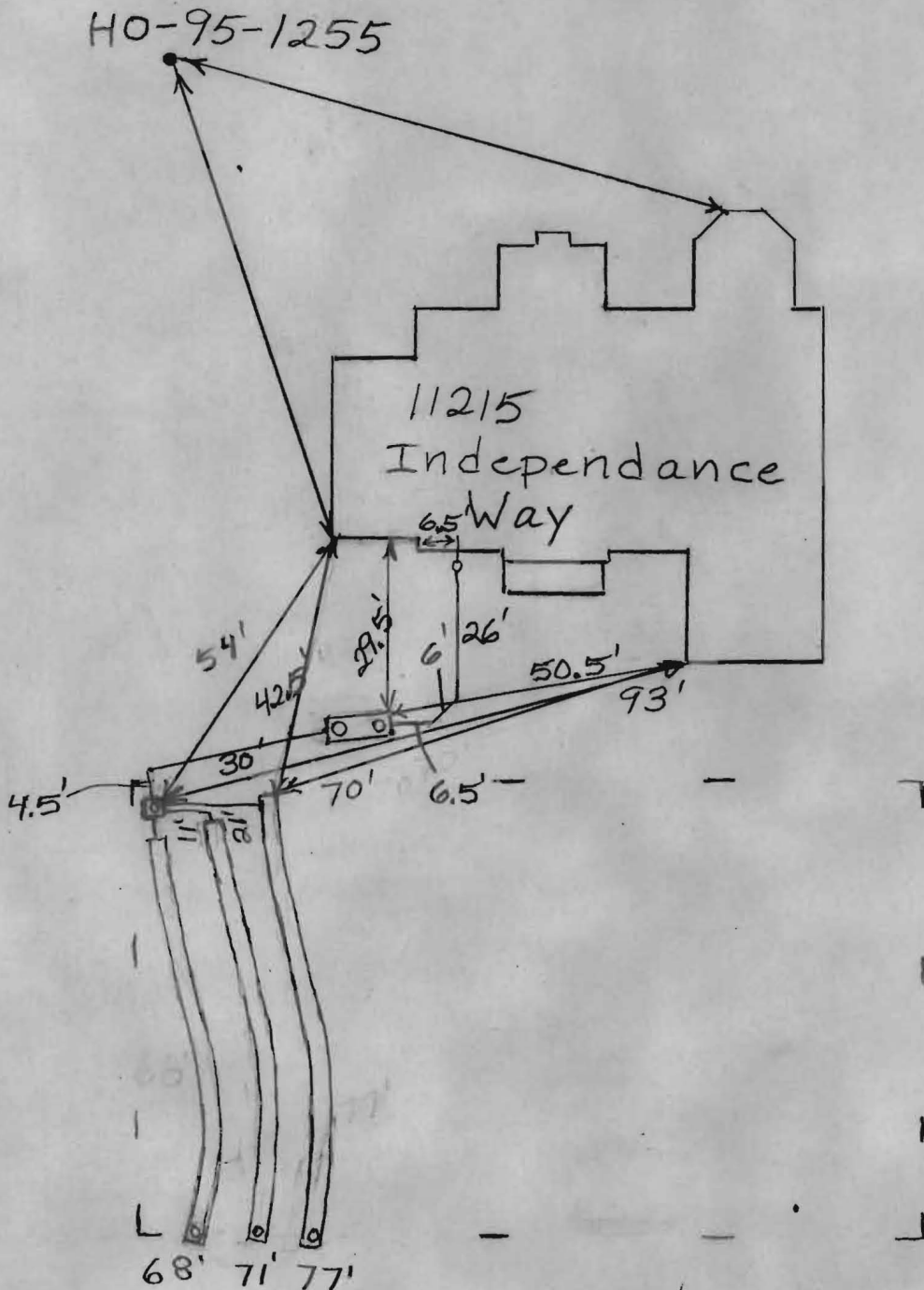
FINAL INSPECTOR

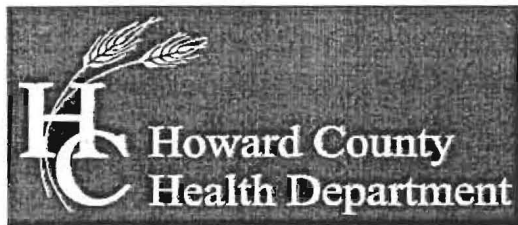
B. Baker

DATE OF APPROVAL

7/11/2014

working. Received approval documentation from HOOT. (BB)





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

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 7th day of May 2014, among Toll Brothers, Inc., 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 11215 Independence Way, 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.

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.

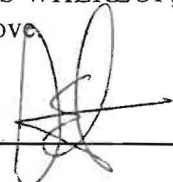
G. This agreement may be voided at any time at the discretion of the County.

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.

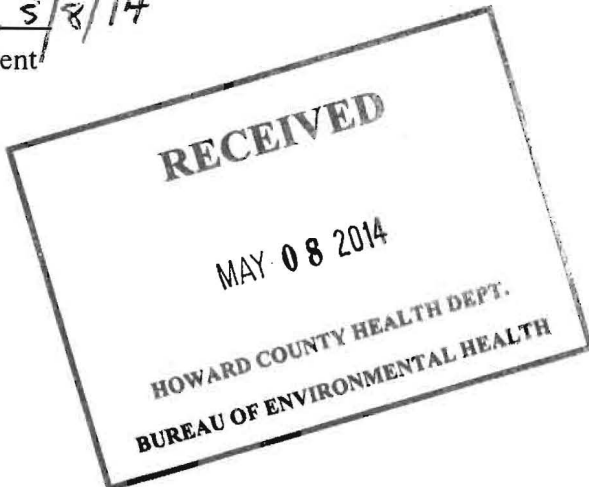
J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

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

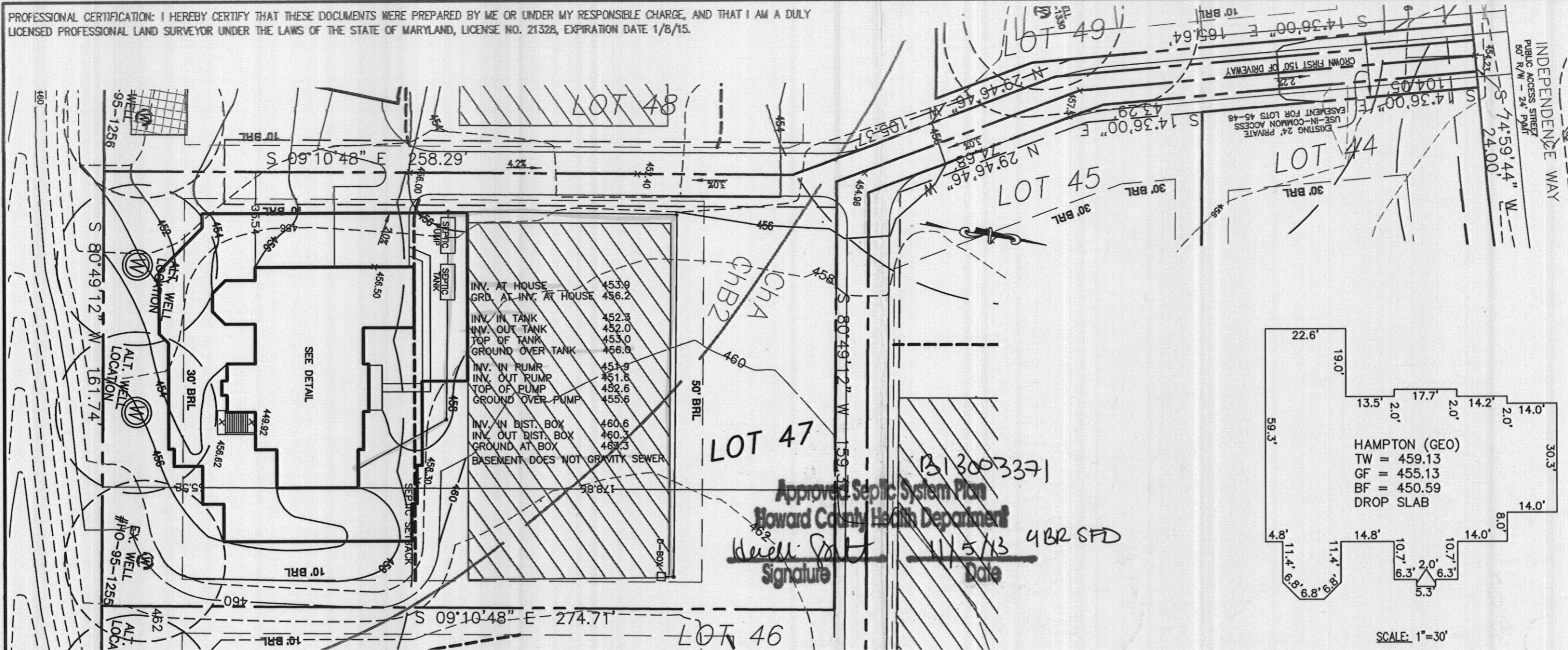
Toll Brothers Inc  5/7/14
Owner Date

Owner Date

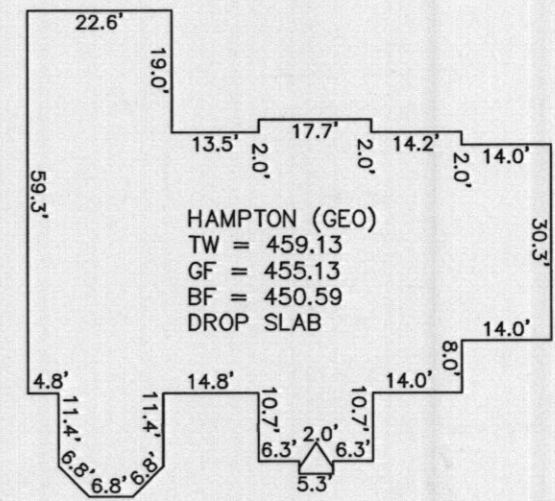
 5/8/14
Howard County Health Department



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.



INV. AT HOUSE	453.0
GRD. AT INV. AT HOUSE	456.2
INV. IN TANK	452.3
INV. OUT TANK	452.0
TOP OF TANK	453.0
GROUND OVER TANK	456.0
INV. IN PUMP	451.9
INV. OUT PUMP	451.6
TOP OF PUMP	452.6
GROUND OVER PUMP	455.6
INV. IN DIST. BOX	460.6
INV. OUT DIST. BOX	460.3
GROUND AT BOX	463.3
BASEMENT DOES NOT GRAVITY SEWER	



Approved Septic System Plan
 Howard County Health Department
 11/5/13
 Signature: *Heidi Galt* Date: 11/5/13
 1313003371
 4BR SFD

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 SEWAGE 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. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN. RECORDATION OF A MODIFIED 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 95-1256) SHOWN ON THIS PLAN HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC. AND IS ACCURATELY SHOWN.

8. TOPOGRAPHIC INFORMATION ESTABLISHED AT TWO FOOT INTERVALS BASED ON AERIAL TOPOGRAPHY PREPARED BY 2DI LLC. DATED APRIL 2001 AND SUPPLEMENTED BY FIELD RUN TOPOGRAPHY PREPARED BY FISHER, COLLINS & CARTER, INC.

- TYPE: HAMPTON (GEO)-
 DAYLIGHT BASEMENT
 EXPANDED FAMILY ROOM
 GUEST ELITE SUITE
 ADD'L 1' TO HEIGHT OF BASEMENT
 NAPLES SUNROOM ADD
- OPTION No. 018
 OPTION No. 023
 OPTION No. 035
 OPTION No. 070
 OPTION No. 529

ADDRESS: 11215 INDEPENDENCE WAY
 ELLICOTT CITY, MD 21043



HOWARD COUNTY HEALTH DEPT.
 BUREAU OF ENVIRONMENTAL HEALTH

PERMIT PLOT PLAN
 LOT #47
HOMWOOD CROSSING
 D.B. 9808, PG. 204
 PLAT No. 18245
 FIFTH ELECTION DISTRICT
 HOWARD

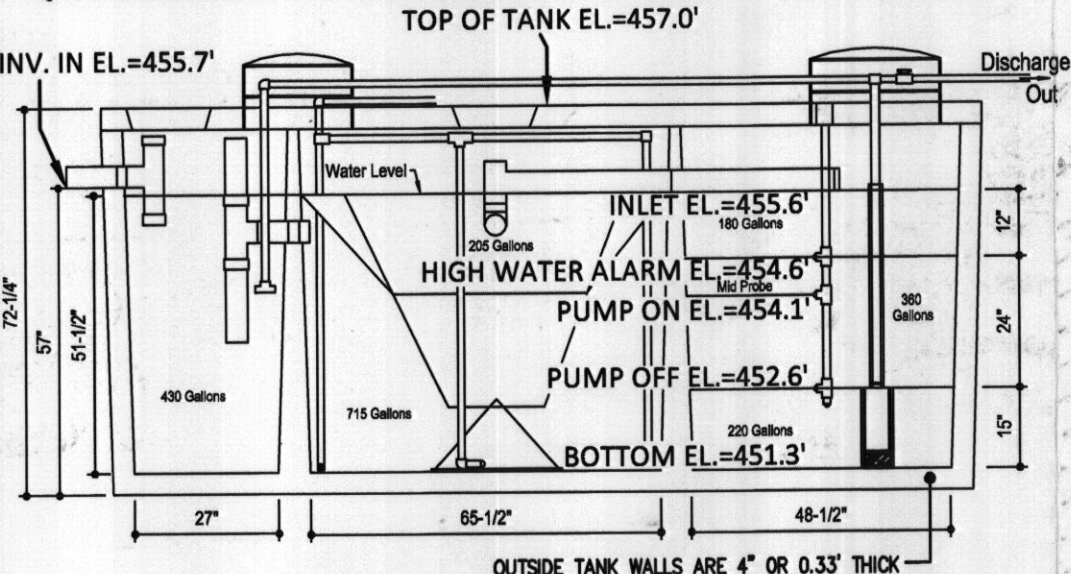
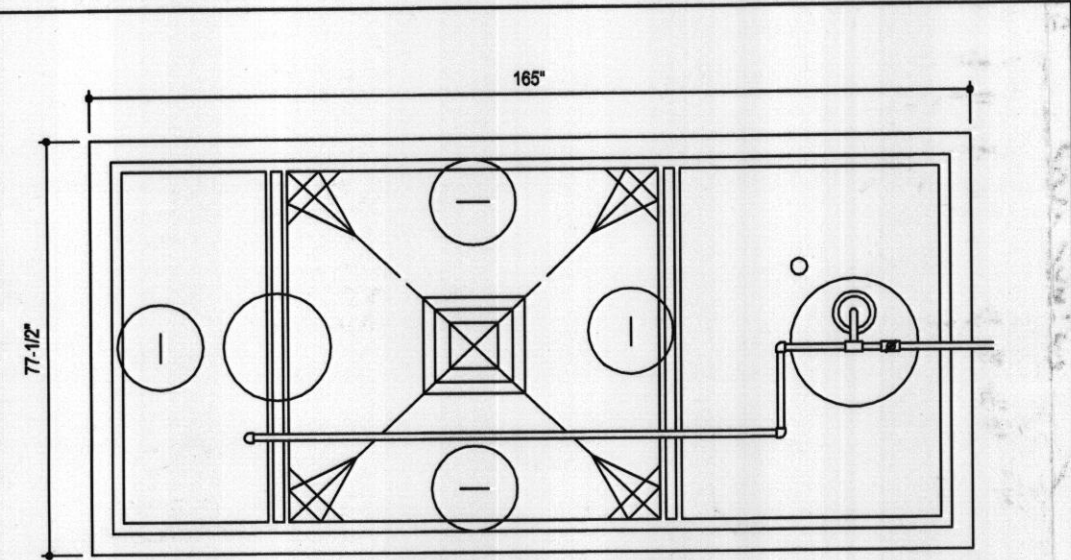
**Land Planning
 Engineering
 Land Surveying**

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

DATE: 08/02/13
CHK'D: MJB

SCALE: 1" = 40'
JOB#: 1214

FILE: PP LOT 47 MALVERN-WIL.
DRAWN: JLN



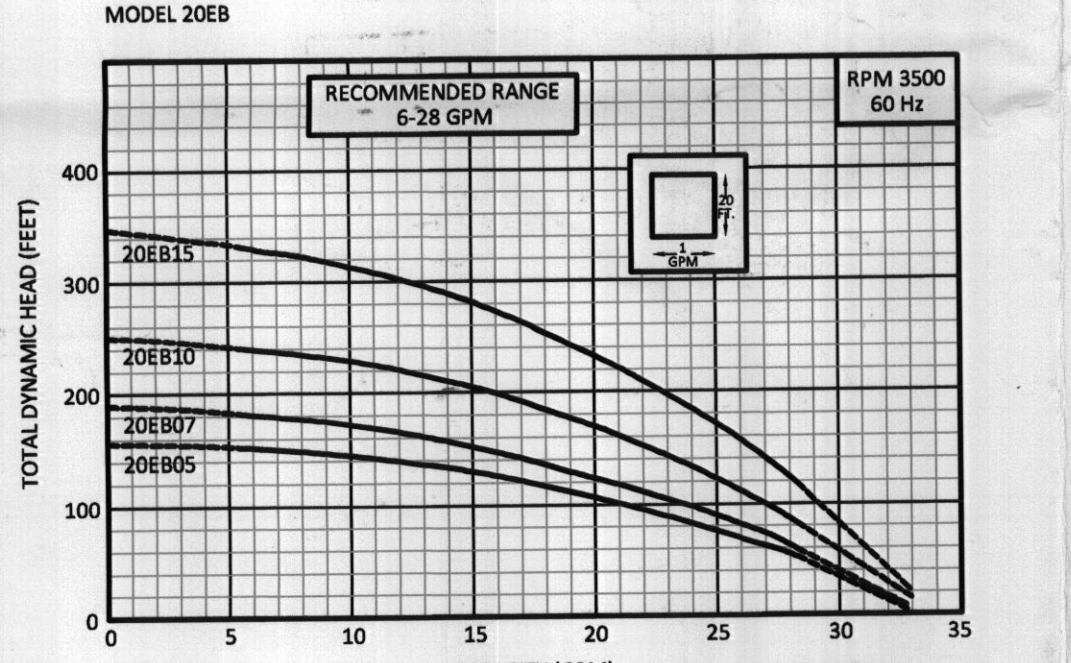
DESIGN DATA & GENERAL NOTES
 1. Concrete strength $f_c=4,000$ p.s.i. @ 28 days. Density = 150 pcf.
 2. Cement - Portland Type III per ASTM C 150-92.
 3. Admixtures & plasticizers per ASTM C 260-98 & C 484-92.
 4. Reinforcing per ASTM A165. Min. 1-1/2" cover.

Mayer Brothers, Inc.
 6264 Race Road
 Elkridge, Maryland 21075
 Tel. 410.796.1434
 Fax. 410.796.1438
 www.mayerbroscast.com

**600 GPD BNR SYSTEM
 H-600 ABNR
 with 750 GALLON PUMP CHAMBER**

Dwg. No. Hoot Form #1 No Scale March 19, 2009

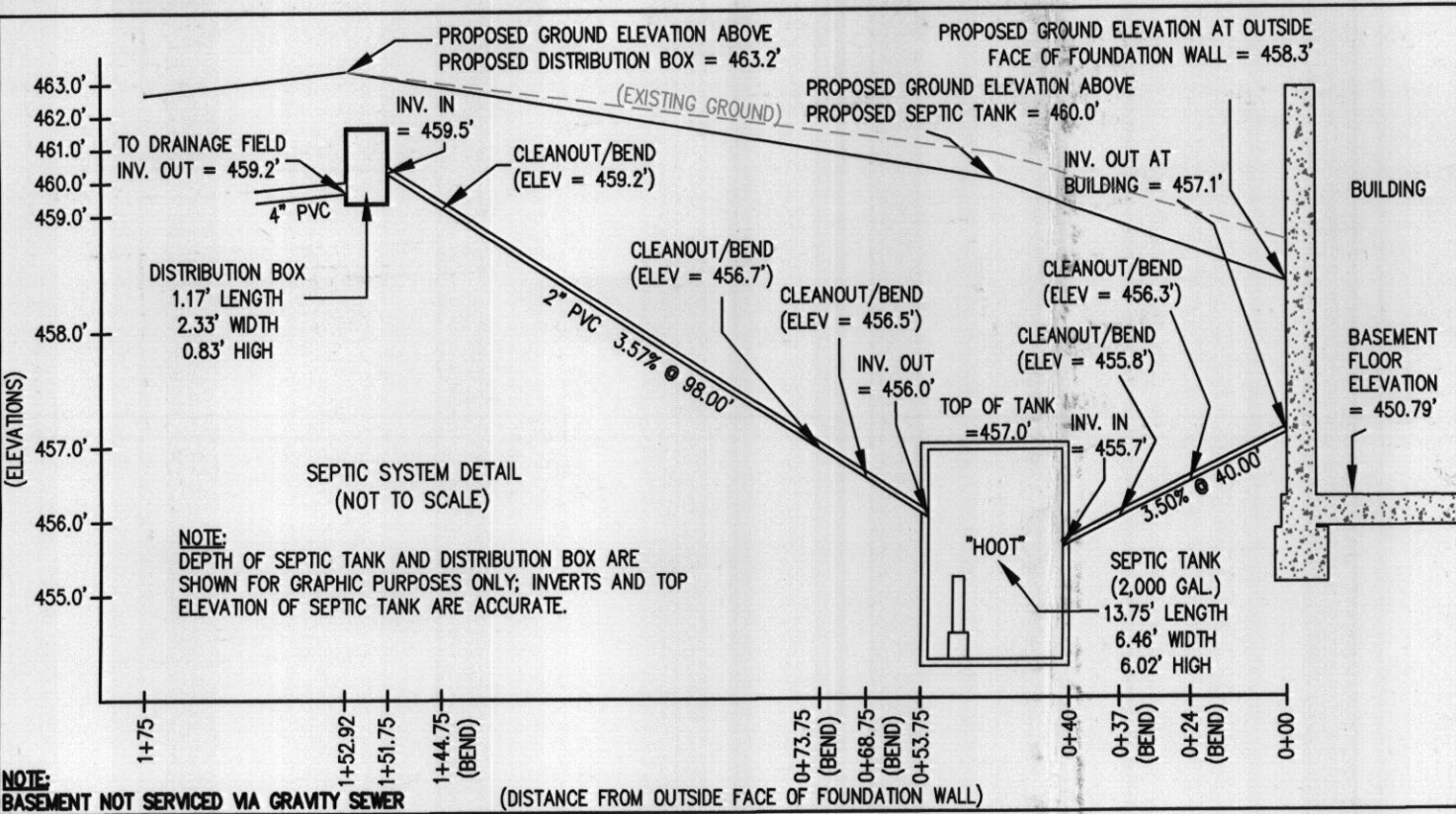
**FILTERED EFFLUENT BLASTER PUMP CURVE
 FOR WASTEWATER**



HOUSE OPTIONS:
 TYPE: HAMPTON (GEORGIAN)
 DAYLIGHT BASEMENT
 EXPANDED FAMILY ROOM/GREAT ROOM
 GUEST ELITE SUITE
 QUESTION 1' BASEMENT FOUNDATION WALLS
 NAPLES SUNROOM ADDITION

OPTION No. 018
 OPTION No. 023
 OPTION No. 035
 OPTION No. 070
 OPTION No. 529

PERC TEST LOCATION
 WELL LOCATION
 LIMITS OF DISTURBANCE
 TW TOP OF WALL
 GF GROUND FLOOR/FIRST FLOOR
 BF BASEMENT FLOOR
 BRL BUILDING RESTRICTION LINE



PUMPING SYSTEM DATA:
 LENGTH OF FORCE MAIN: 98.00' @ 2" DIA. PIPE
 STATIC HEAD = 6.90'
 FRICTION HEAD = 0.81'
 DYNAMIC HEAD = 7.71'
 FLOW = 28 GPM
 TIMED DOSE = 56 GALLONS @ 2 MINUTE INTERVALS
 PUMP TYPE PER PUMP CURVE CHART = 20EB05, 1/2 H.P.

DOSE CALCULATIONS:
 PER HOWARD COUNTY HEALTH DEPARTMENT SPECIFICATIONS, A DOSE AROUND 50 GALLONS IS PREFERRED WHEN PUMPING TO A DISTRIBUTION BOX. MINIMUM DOSING FOR A 4 BEDROOM HOUSE IS 600 GPD AT 12 EVENTS PER DAY.
 (600 GPD ÷ 12 EVENTS PER DAY) = 50 GALLON DOSE (MINIMUM)
 PUMP MAXIMUM = 28 GPM X 2MIN. (DOSE TIME SELECTED) = 56 GALLON DOSE
 56 GALLON DOSE MEETS MINIMUM REQUIREMENTS.

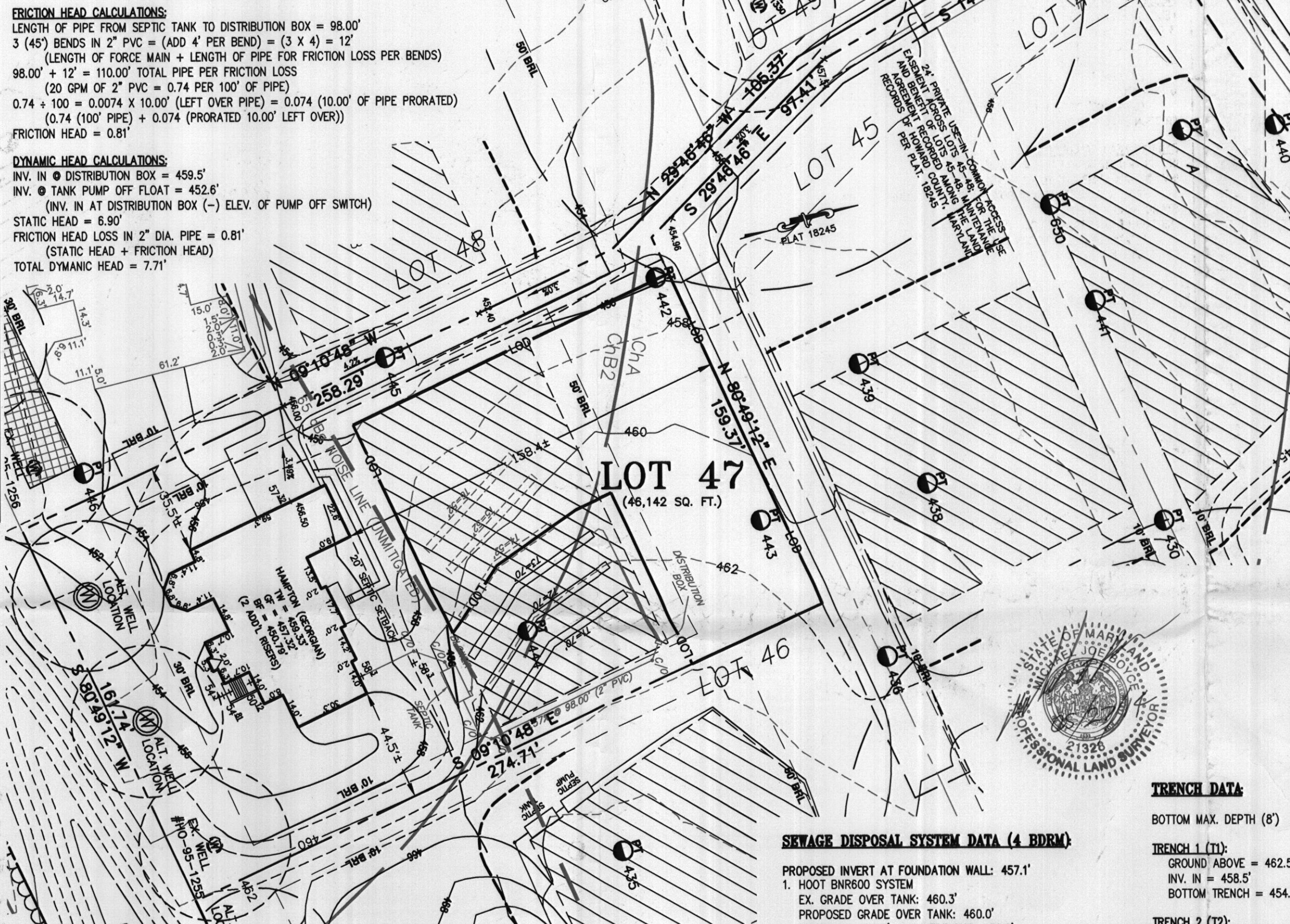
FRICTION HEAD CALCULATIONS:
 LENGTH OF PIPE FROM SEPTIC TANK TO DISTRIBUTION BOX = 98.00'
 3 (45) BENDS IN 2" PVC = (ADD 4' PER BEND) = (3 X 4) = 12'
 (LENGTH OF FORCE MAIN + LENGTH OF PIPE FOR FRICTION LOSS PER BENDS)
 98.00' + 12' = 110.00' TOTAL PIPE PER FRICTION LOSS
 (20 GPM OF 2" PVC = 0.74 PER 100' OF PIPE)
 0.74 ÷ 100 = 0.0074 X 110.00' (LEFT OVER PIPE) = 0.074 (10.00' OF PIPE PRORATED)
 (0.74 (100' PIPE) + 0.074 (PRORATED 10.00' LEFT OVER))
 FRICTION HEAD = 0.81'

DYNAMIC HEAD CALCULATIONS:
 INV. IN @ DISTRIBUTION BOX = 459.5'
 INV. @ TANK PUMP OFF FLOAT = 452.6'
 (INV. IN AT DISTRIBUTION BOX (-) ELEV. OF PUMP OFF SWITCH)
 STATIC HEAD = 6.90'
 FRICTION HEAD LOSS IN 2" DIA. PIPE = 0.81'
 (STATIC HEAD + FRICTION HEAD)
 TOTAL DYNAMIC HEAD = 7.71'

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.

FLOW CALCULATIONS:
 STANDARD HOOT 600BNR "BLASTER EB20" PUMP:
 THE SPECIFICATIONS SHOW IT PUMPS 28 GPM (MAXIMUM) AT A HEAD OF 100'.
 (2 MINUTE PUMP RUN TIME X 28 GPM = 56 GALLON DOSE)
 (56 GALLON DOSE X 12 EVENTS PER DAY = 672 GALLONS)
 672 GALLONS MEETS MINIMUM DAILY REQUIREMENTS.

PUMP HORSEPOWER CALCULATIONS:
 FLOW X TOTAL DYNAMIC HEAD X SPECIFIC GRAVITY ÷ 3960 X EFFICIENCY
 (SPECIFIC GRAVITY H2O @ 68°F IS 1)
 (USE 0.4 FOR EFFICIENCY, AS THIS IS COMMON FOR EFFLUENT PUMPS)
 28 X 13.13 X 1 + 3960 X 0.4 = 367.64 ÷ 1,584.0 = 0.23
 USE PUMP CHART - PUMP = 20EB05, 1/2 H.P.



SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) NOTES:

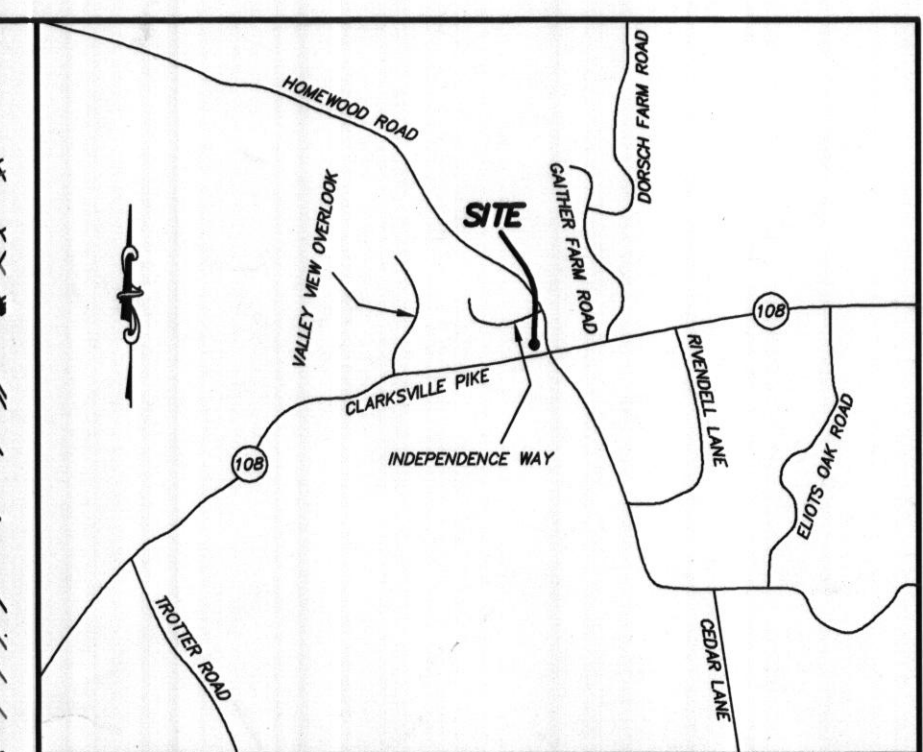
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET COVER.
- THE BLOWER MAY NOT BE LOCATED 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 (4 BDRM):

PROPOSED INVERT AT FOUNDATION WALL: 457.1'

- HOOT BNR600 SYSTEM
 EX. GRADE OVER TANK: 460.3'
 PROPOSED GRADE OVER TANK: 460.0'
 INVERT IN: 455.7' INVERT OUT: 456.0'
- DISTRIBUTION BOX
 EXISTING GRADE OVER TANK: 463.2'
 PROPOSED GRADE OVER TANK: 463.2'
 INVERT IN: 459.5' INVERT OUT: 459.2'
- TRENCH DESIGN-INITIAL SYSTEM
 (4 BDRM x 150 GPD/BDRM = 600 GPD)
 600 GPD ÷ 0.8 APP. RATE = 750 SF
 USE 3" WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
 9" MIN. SPACING BETWEEN TRENCH EDGES
 750 SF ÷ 3" WIDTH = 250 LF x 0.83 = 207.50 LF MIN. TRENCH
 USE 3 70' LONG TRENCHES = 210 LF
- BACK UP TRENCH DESIGN-1ST REPLACEMENT
 (4 BDRM x 150 GPD/BDRM = 600 GPD)
 600 GPD ÷ 0.8 APP. RATE = 750 SF
 USE 3" WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
 9" MIN. SPACING BETWEEN TRENCH EDGES
 750 SF ÷ 3" WIDTH = 250 LF x 0.62 = 155 LF MIN. TRENCH
 USE 3 52' LONG TRENCHES = 156 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. 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: 31,890 SQ. FT. / 0.73 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.
 - 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 F-05-069.
 - THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-1255 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 PER PLAN AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
 - CULVERT FOR DRIVEWAY PWN F-05-069.

APPROVED: FOR HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION _____ DATE _____

DIRECTOR _____ DATE _____

PROFESSIONAL ENGINEER _____ DATE _____

Plot Plan for BAT Installation
 LOT 47
HOMEROOD CROSSING
 LIBER 9808, FOLIO 204
 PLAT No. 18245
 TAX No. 05-443091
 FIFTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 ADDRESS: 11215 INDEPENDENCE WAY
 ELLICOTT CITY, MARYLAND

Approved Septic System Plan
 Howard County Health Department
 ESE Consultants Inc.
ESE Engineering Land Surveying
 716 Columbia Gateway Dr.
 Suite 203
 Columbia, MD 21046
 TEL: 410-872-9105
 FAX: 410-872-4870

DATE: 05/27/14 SCALE: 1"=40' FILE: PP LOT 47
 CHK'D: M.J.B. JOB NO: 1214 DRAWN: R.C.K.