

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: 1/7/2015

ONSITE SEWAGE DISPOSAL SYSTEM

P 555388-A

INSTALLATION APPROVAL DATE: _____

**PERMIT
CONSTRUCTION**

A _____

PROPERTY ADDRESS: 14553 Edgewood Way

SUBDIVISION: Edgewood Farm LOT: 37 TAX ID: _____

CONTRACTOR: Fogle's Septic Clean, Inc. EMAIL: kevin@fogleinc.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 21045 PHONE: 410-872-9105

BAT UNIT MODEL: ECOPOD E60NCA BAT UNIT SIZE: 600 GPD

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

NUMBER OF BEDROOMS: 4 HOUSE SQ. FT. _____ APPLICATION RATE: 0.8

DISTRIBUTION SYSTEM: GRAVITY FED LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: _____	INLET DEPTH: <u>2.5'-3.0'</u>
	TRENCH WIDTH: _____	MAXIMUM BOTTOM DEPTH: <u>4.5-5.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: _____	EFFECTIVE AREA BEGINNING DEPTH: <u>4-4.5</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:	See BAT unit per plan. Install cleanout in SHC 30' - 70' feet from foundation. <u>Bed 12x66'</u>	

ISSUED BY: Hank Oswald ISSUE DATE: 1-12-15 EXPIRATION DATE: 1-7-16

- 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

**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

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

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL _____
MANUFACTURER _____
CAPACITY _____ GAL
SEAM LOC _____
TANK LID DEPTH _____
BAFFLES _____
BAFFLE FILTER _____
MANHOLE LOC _____
6" PORT LOC _____
WATERTIGHT TEST _____
SLOTTED _____
DATE ON LID _____

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 _____

ROAD NAME

PRE-CONSTRUCTION:

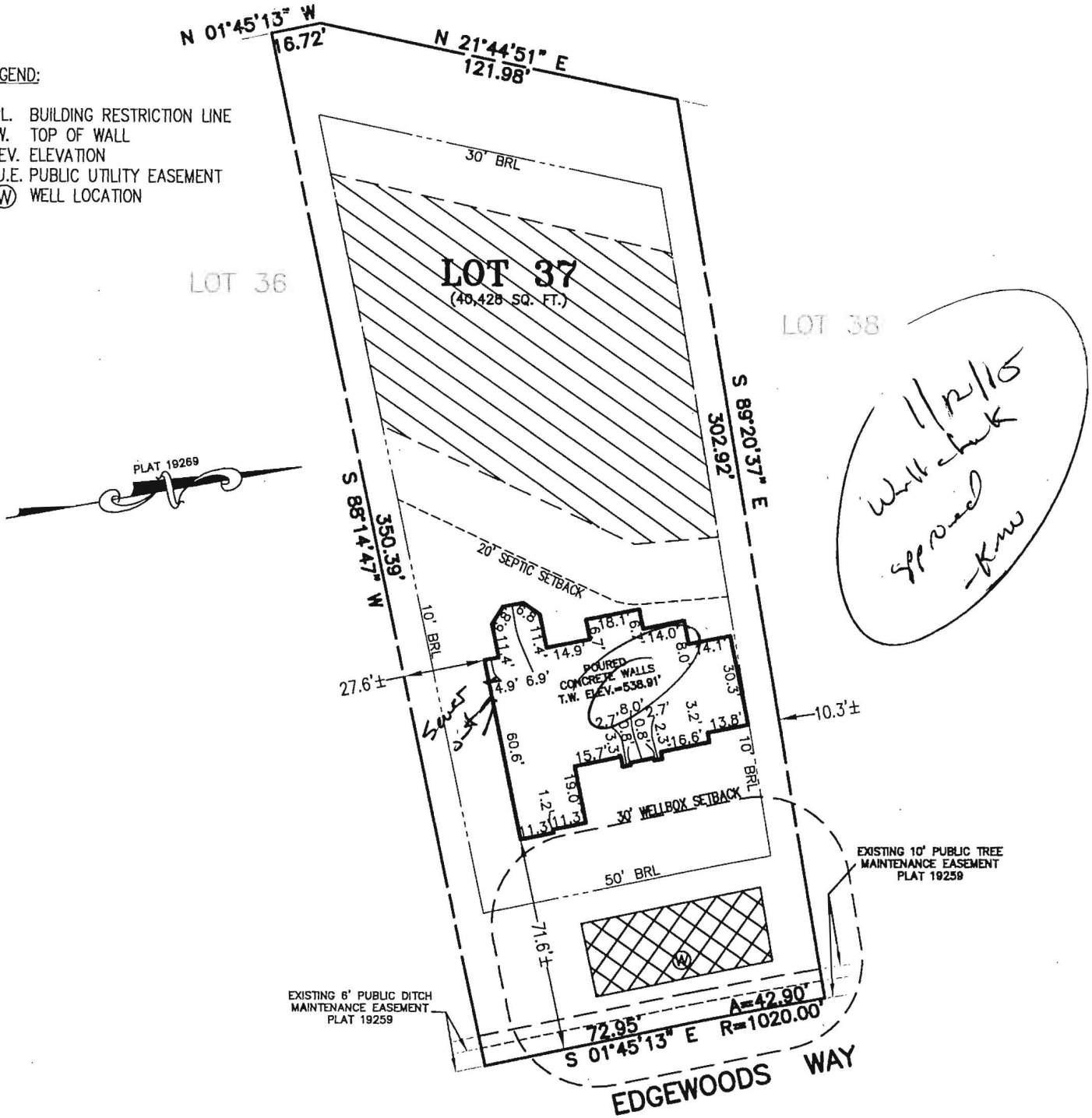
INSTALLATION:

FINAL INSPECTOR _____ DATE OF APPROVAL _____

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21245, EXPIRATION DATE 1/27/15.

LEGEND:

- BRL. BUILDING RESTRICTION LINE
- T.W. TOP OF WALL
- ELEV. ELEVATION
- P.U.E. PUBLIC UTILITY EASEMENT
- (W) WELL LOCATION



WELL TAG NUMBER: HO-95-0554

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: 14553 EDGEWOODS WAY
GLENELG, MD 21737

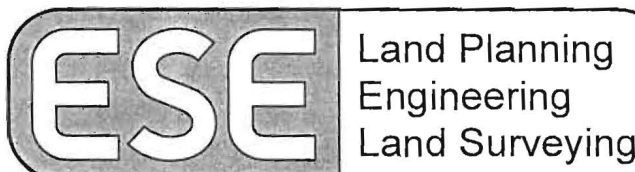
SURVEYOR'S CERTIFICATE

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.

Gregory Van Stewart
SIGNATURE: GREGORY VAN STEWART

21245 MD. LIC NO. 12/30/14 DATE

WALL CHECK
LOT 37
EDGEWOOD FARM
LIBER 10677, FOLIO 461
PLAT NO. 19269
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



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

DATE: 12/30/14
CHK'D: G.V.S.

SCALE: 1"=50'
JOB NO: 1498

FILE: WC LOT 37
DRAWN: V.X.P



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

RECEIPT DATE: 1/7/2015 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 555388-A

INSTALLATION

PERMIT

A _____

APPROVAL DATE: 6/1/15 SEC

CONSTRUCTION

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NUMBER OF BEDROOMS: 4 HOUSE SQ. FT. _____ APPLICATION RATE: 0.8

DISTRIBUTION SYSTEM: GRAVITY FED LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>250' Minimum</u>	INLET DEPTH: <u>2.0'</u>
	TRENCH WIDTH: <u>3.0'</u>	MAXIMUM BOTTOM DEPTH: <u>4.0'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>9.0'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.0'</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:	See BAT unit per plan. Install cleanout in SHC 30' - 70' feet from foundation. <u>Bed 12'x66'</u>	

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- 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
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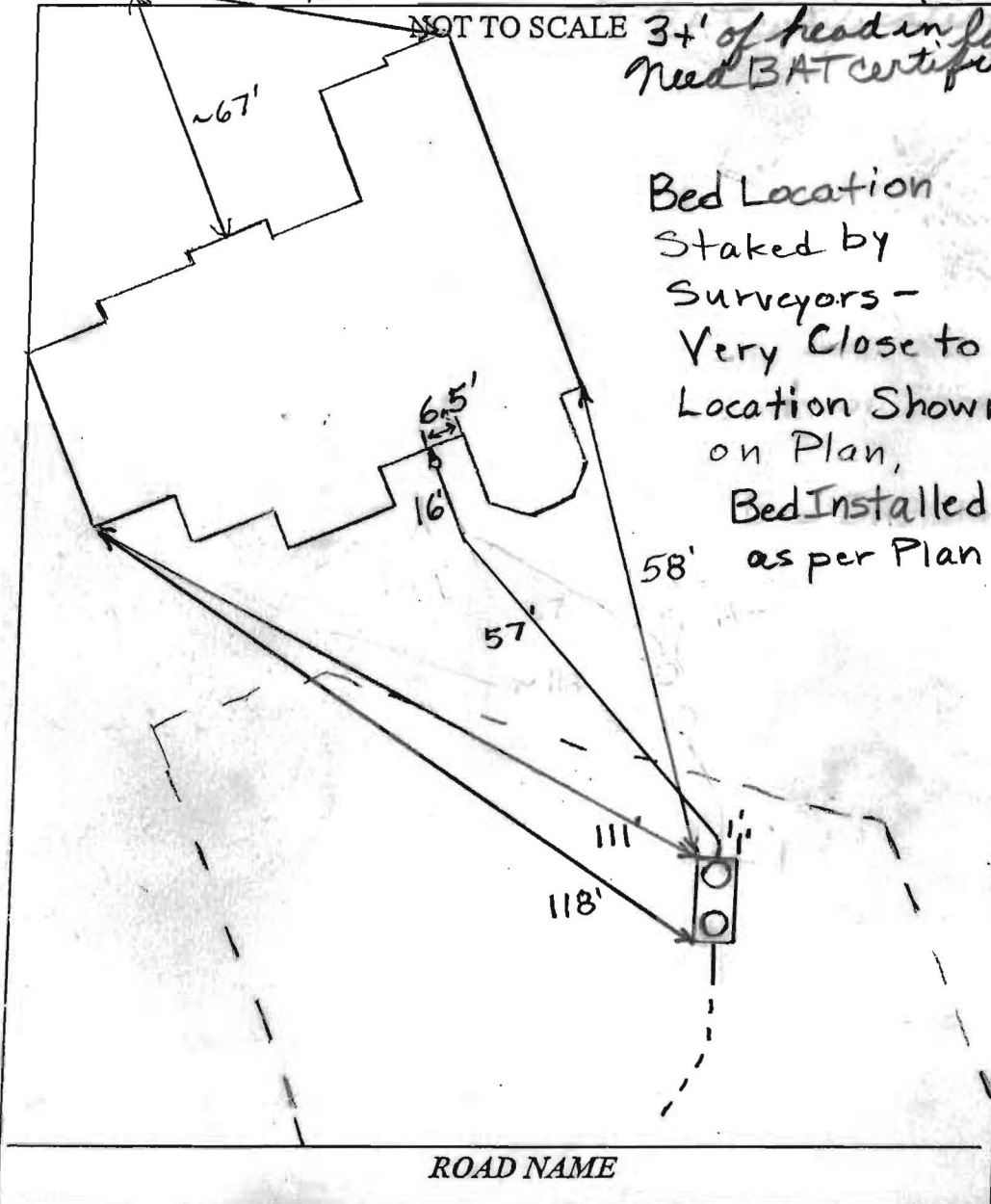
HO-95-0554 ~67' (PB) 5/29/2015 Pump and alarm working. Getting

NOT TO SCALE 3+' of head in lateral
Need BAT certification

Bed Location
Staked by
Surveyors -
Very Close to
Location Shown
on Plan,
Bed Installed
58' as per Plan

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
12'	2.5'-4'	4.5'-6'
NUMBER OF TRENCHES 1		
TOTAL LENGTH 66'		
ABSORPTION AREA 792+Sidewall		
DISTRIBUTION BOX LEVEL N/A		
DISTRIBUTION BOX BAFFLE N/A		
DISTRIBUTION BOX PORT N/A		

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
MANUFACTURER	Mayer Bros-Hoot
CAPACITY	1350 GAL
SEAM LOC	Top
TANK LID DEPTH	1-2.5'
BAFFLES	Front
BAFFLE FILTER	N/A
MANHOLE LOC	Front
6" PORT LOC	None
WATERTIGHT TEST	No
SLOTTED	N/A
DATE ON LID	Dry
PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	Same
CAPACITY	760 GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	Rear
6" PORT LOC	None
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	



ROAD NAME

PRE-CONSTRUCTION:

1/23/2015 Laid out two 80' trenches on contour across the top of the easement. Tank location staked. (PB)
 1/29/2015 Contractor hit shallow rock at the start of both trenches. Rock is too shallow to get a 4' buffer. Tried to start digging more perc test holes but the backhoe wouldn't start. (PB)
 1/30/2015 Dig several new perc test holes to try to establish usable area. Some possible area found for trenches. Will have to do more digging. (PB)

INSTALLATION:
 2/4/2015 More digging and testing done. Located enough area for at least 2 systems. LPD trenches suggested for longevity. (PB)
 4/6/2015 (AM) Bed location staked by surveyors. Lateral holes drilled and cleaned out. Started digging bed. (PB) 4/6/2015 (PM) Almost finished digging bed. Started stoning bed. Have installer O.K. to cover bed when done due to impending rain. (PB)
 4/7/2015 No work done. (PB) 4/8/2015 Tank set. House connection made. Most of pump line installed. Contractor installed tank in wrong location. It was supposed to be installed per BAT plan. Need certification, pump and alarm. (PB)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 6/1/15

Letter of Satisfaction

Hoot System Installation

Address of Property: 14553 Edgewood Way
Glenelg, MD 21737

Date of Final Inspection: 5/20/15

Installer: Fogles

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,

H. Mike Sample
Name of Inspector
Mayer Bros., Inc.

PH: 410-796-1434
FX: 410-796-1438

WBE
NPCA Certified Plant

mayerbro@connect.net
www.mayerbrosprecast.com

Grease Interceptors, Grease Solutions, Aerobic Treatment Units, Septic Tanks, Holding Tanks, Storm Water Structures, Hydroceptors,
Bench Barrier, Water Meter Vaults, Sectional Valve Vaults, Top Slabs, Curb Heads, Curb Bumpers, PermEntry Basement Entries,
Scapewell Window Wells, Custom Precast Products

RATC #37



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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 21st day of October, 2014, among Toll MD V, 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 14553 Edgewoods Way Gaithersburg, 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 10677 Folio 461.

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 ECOPOD ELONCA.

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.

Bert Rifan 10/27/2014
Howard County Health Department

[Signature] 10/12/2014
Owner #1 Signature Date

Zhengxiong Xi
Owner #1 Print Name

David Earl TOLLMSV
Buyer #1 Signature Date
owner

Buyer #1 Print Name

[Signature] 10/12/2014
Owner #2 Signature Date

Hui Shen 10/12/2014
Owner #2 Print Name

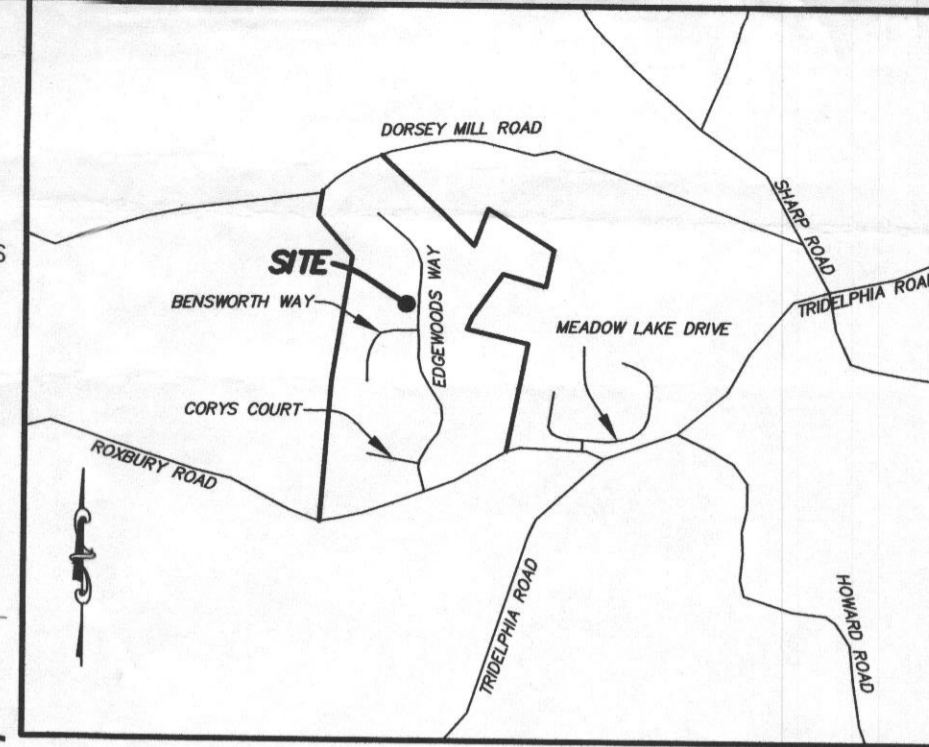
Buyer #2 Signature Date

Buyer #2 Print Name

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:

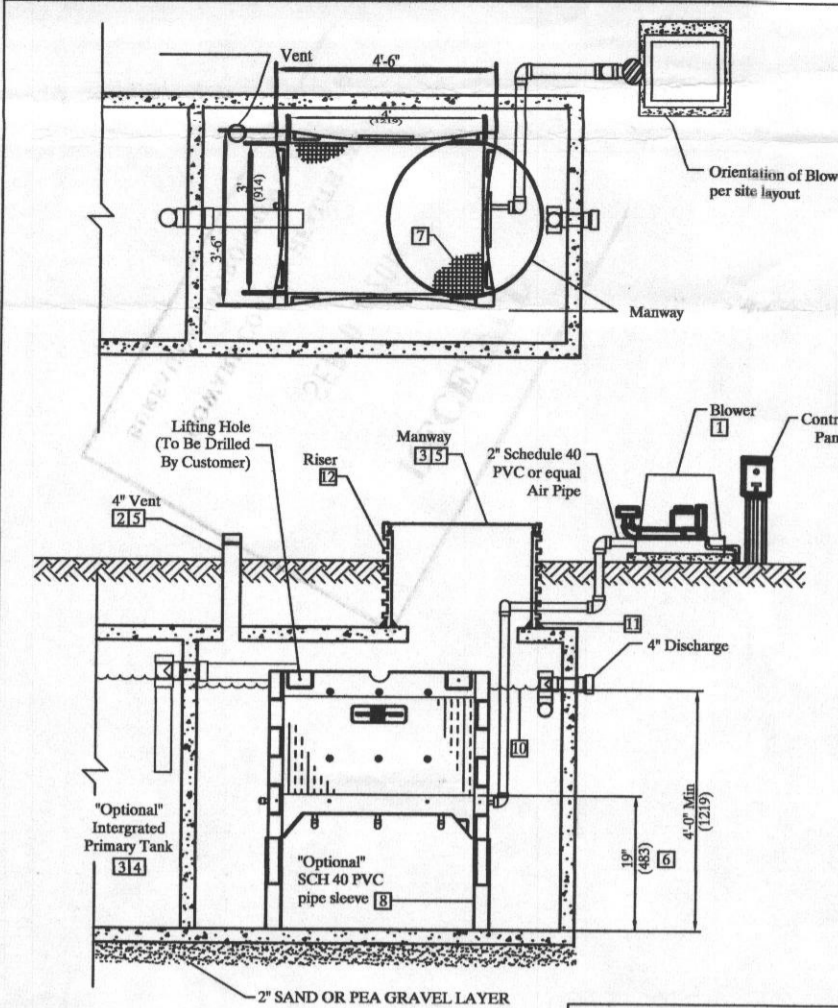
- PERC TEST LOCATION
- WELL LOCATION
- LOD- LIMITS OF DISTURBANCE
- SOIL TYPE LINE
- GgB GLENELG LOAM, 3 TO 8 PERCENT SLOPES
- GmB GLENVILLE SILT LOAM, 8 TO 15 PERCENT SLOPES
- TW TOP OF WALL
- GF GARAGE FLOOR
- BF BASEMENT FLOOR
- BRL BUILDING RESTRICTION LINE



VICINITY MAP
1" = 2000'

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. 19269.
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 4/27/11.
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: 34,509 SQ. FT. / 0.79 AC.±
8. STORMWATER MANAGEMENT PER PLAN F-06-108.
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. [Hatched Area] 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-06-108.
18. A STANDARD SEDIMENT CONTROL PLAN MAY BE USED FOR DEVELOPMENT OF THIS LOT. REFERENCE GRADING PLAN GP-14-031, DATED 10/31/13.
19. THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-0554 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 IS A 15" CORRUGATED METAL PIPE (CMP) PER NOTE 30 AS SHOWN ON SHEET LABELED "ROADS, STORMWATER MANAGEMENT AND STORM DRAIN PLANS" IN THE F-06-108 PLAN.



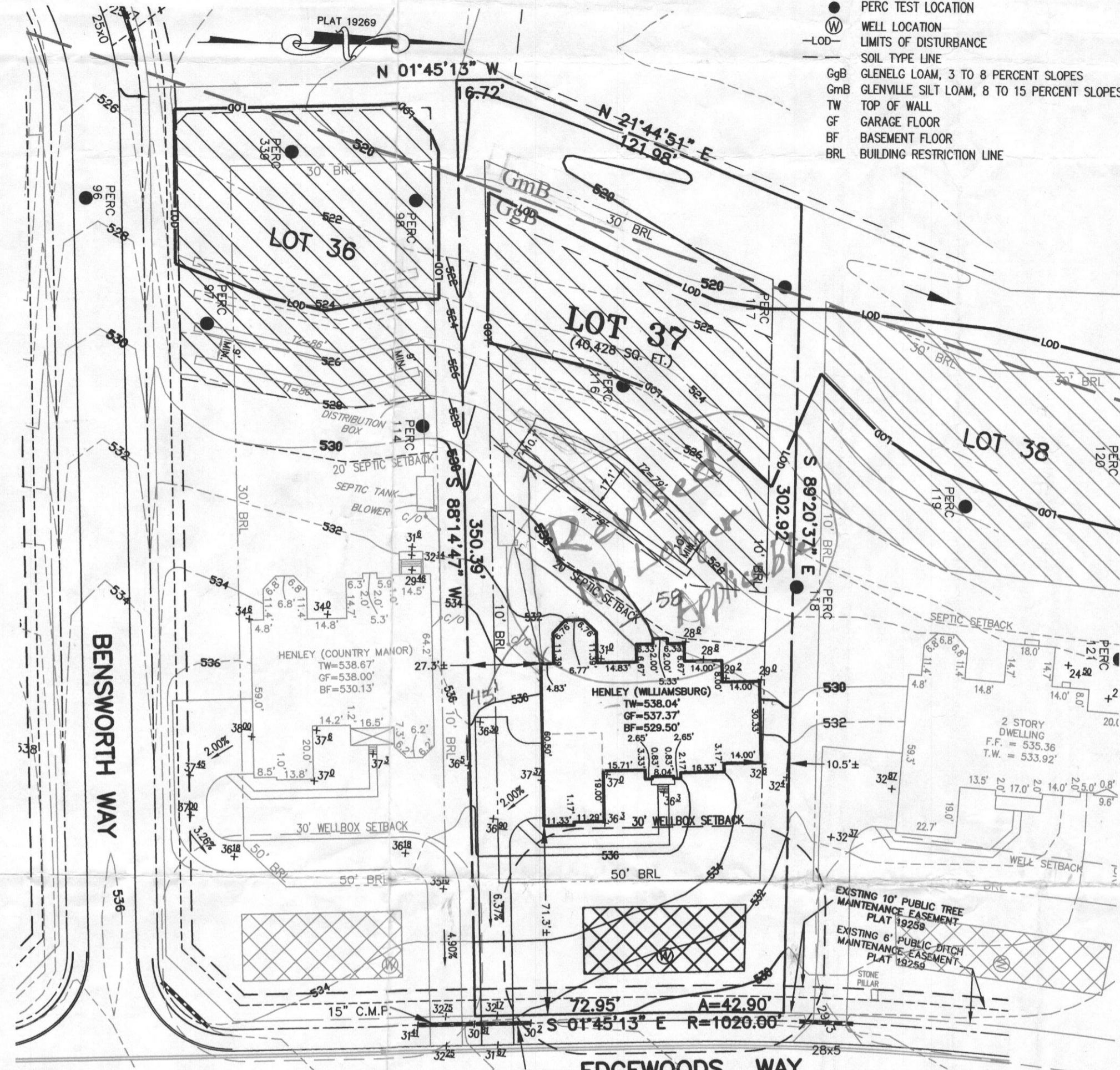
NOTES:

1. Blower piping to ECOPOD not to exceed 100 FT total length in the piping system. For distances greater than 100 FT, consult factory. Blower must be located above finished floor levels on a solid base.
2. Vent to be located above finish grade or higher to avoid infiltration. Cap on vent must be secured with a stainless steel screw.
3. All other tanks to/ from ECOPOD must conform to applicable country, state, province, and local plumbing and electrical codes.
4. The primary tank/ compartment volume must be 1 to 2 times the rated ECOPOD GPD. Primary and Reactor tank volumes are listed in the ECOPOD Design Manual. The primary tank may be integrated with the reactor tank or stand alone in a separate tank.
5. All manways, pump out ports, and vents must be secured to prevent accidental or unauthorized access.
6. ECOPOD media is recommended to be atleast 19" from bottom of tank. Distances not 19" need factory approval.
7. ECOPOD media EV19PVC224
8. Tanks with higher inlets, install SCH 40 PVC pipe over legs to elevate reactor to correct height.
9. Air supply line should be secured with non-corrosive clamps where required to prevent vibration damage.
10. Effluent discharge level must be at a height no more, or no less than 2" above vertical tube PVC media.
11. Use epoxy, or use another approved method or substance, to create strong connection & watertight seal (TYP.)
12. Risers must conform to country, state, province, and local acceptable codes. Fiberglass riser shown.

600 GPD TREATMENT UNIT	
Discharge From Tank	4'-0"
Reactor Volume	840 Gallons
Recommended Distance Under Reactor Box	19"

E60NCA REACTOR IN CONCRETE TANK

Delta Environmental
Pentair Water
NOT TO SCALE



HOUSE OPTIONS:

- TYPE: HENLEY (WILLIAMSBURG)
- WALK-OUT BASEMENT
- CONSERVATORY ELITE ADDITION
- ADD'L 1' TO HEIGHT OF BASEMENT FOUNDATION WALLS
- NAPLES SUNROOM ADDITION

- OPTION No. 017
- OPTION No. 039
- OPTION No. 070
- OPTION No. 529

SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) NOTES:

1. 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.
2. THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET COVER.
3. THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
5. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
6. 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.
7. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
8. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN THE LAND RECORDS OF HOWARD COUNTY.
9. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

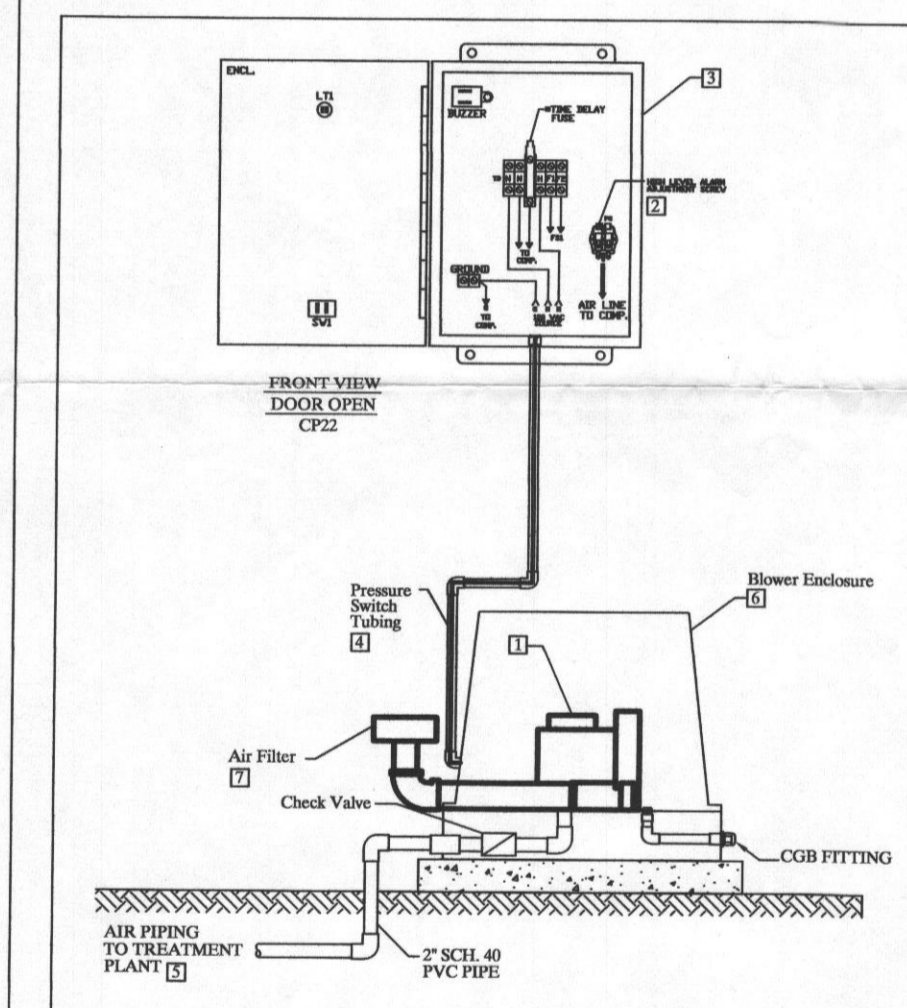
SEWAGE DISPOSAL SYSTEM DATA (5 BDRM):

- E60 ECOPOD 2 CHAMBER SYSTEM
- PROPOSED INVERT AT FOUNDATION WALL: 528.3'
1. EX. GRADE OVER TANK: 530.9'
 - PROPOSED GRADE OVER TANK: 530.9'
 - INVERT IN: 527.2' INVERT OUT: 526.9'
2. DISTRIBUTION BOX
- EXISTING GRADE OVER BOX: 528.7'
- PROPOSED GRADE OVER BOX: 528.7'
- INVERT IN: 526.4' INVERT OUT: 526.1'
3. TRENCH DESIGN
- APP. RATE: 0.8, SIDEWALL BEGIN: 5', MAX BOTTOM: 8'
- (5 BDRM x 150 GPD/BDRM = 750 GPD)
- 750 GPD ÷ 0.8 APP. RATE = 937.50 SF
- USE 3' WIDE TRENCH WITH 72" GRAVEL BELOW PIPE
- 9' MIN. SPACING BETWEEN TRENCH EDGES
- 937.50 SF ÷ 3' WIDTH = 312.50 LF x 0.50 = 156.25 LF MIN. TRENCH
- USE 2 79' LONG TRENCHES = 158 LF

TRENCH DATA:

- BOTTOM MAX. DEPTH (8') = 2'
- TRENCH 1 (T1):
- GROUND ABOVE = 528.8'
 - INV. IN = 526.8'
 - BOTTOM TRENCH = 520.8'
- TRENCH 2 (T2):
- GROUND ABOVE = 527.7'
 - INV. IN = 525.7'
 - BOTTOM TRENCH = 519.7'

Approved Septic System Plan
Howard County Health Department
9/16/14

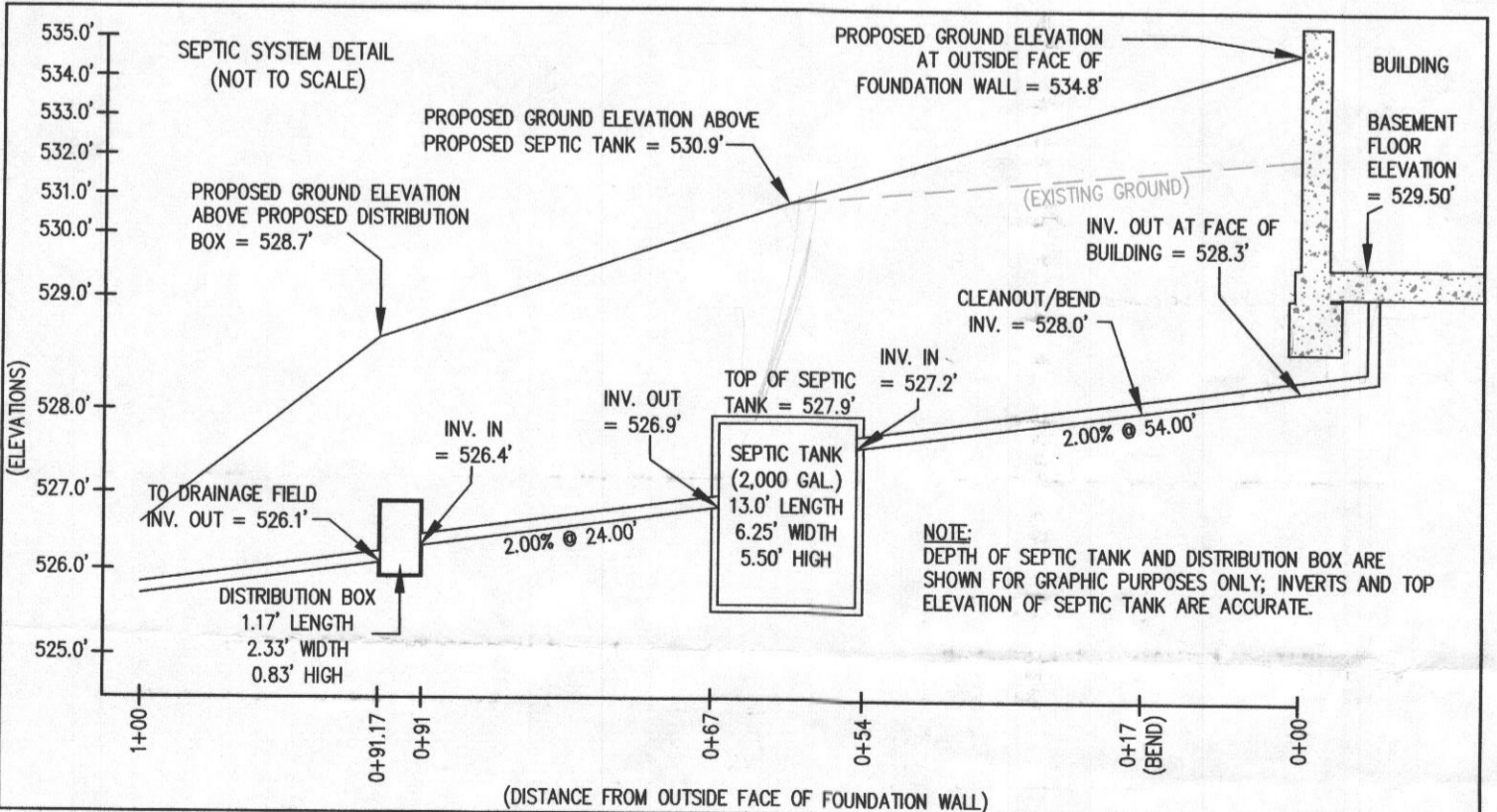


NOTES:

1. Blower Model Delta 06
2. Setting High Level Pressure Switch Bring plant to operating water level with compressor turned on. Using properly sized screw driver, turn high level alarm adjustment screw clockwise until alarm occurs. Once alarm occurs, turn the screw counter-clockwise until alarm stops. Setting Low Level Pressure Switch Factory set
3. All of Delta's control panels are manufactured to UL508A requirements. All enclosures are NEMA rated.
4. Pressure switch tubing is used for high and low level pressure detection.
5. All piping from the blower to the ECOPOD to be 2" sch 40 PVC pipe.
6. All blowers are housed in a polyethylene enclosure supplied with necessary piping for installation.
7. Inlet Filters must be mounted on outside of enclosure. Filters not mounted on outside could contribute to blower malfunction and void manufacturer's warranty.
8. Filter elements must be non-paper type.

E60NCA BLOWER/CP DETAIL

Delta Environmental
Pentair Water
NOT TO SCALE



APPROVED: FOR HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DIRECTOR
PROFESSIONAL ENGINEER

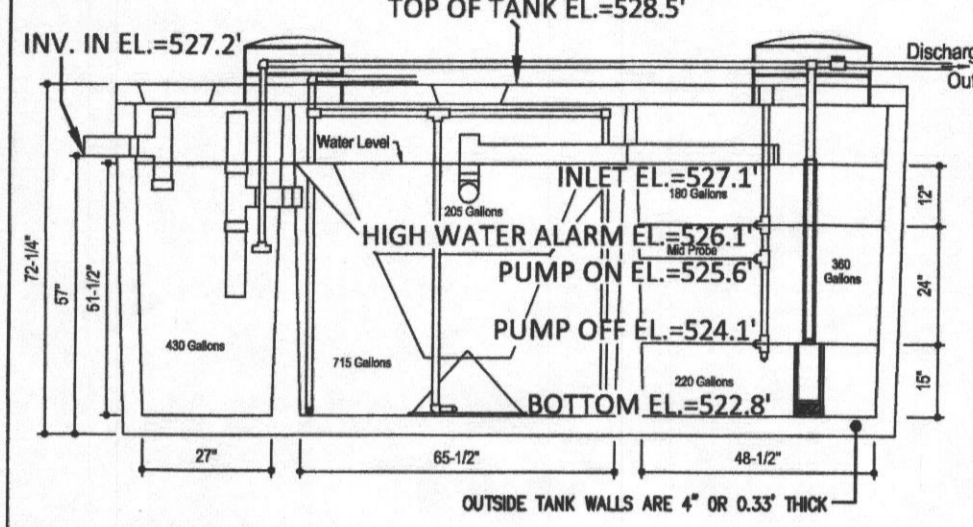
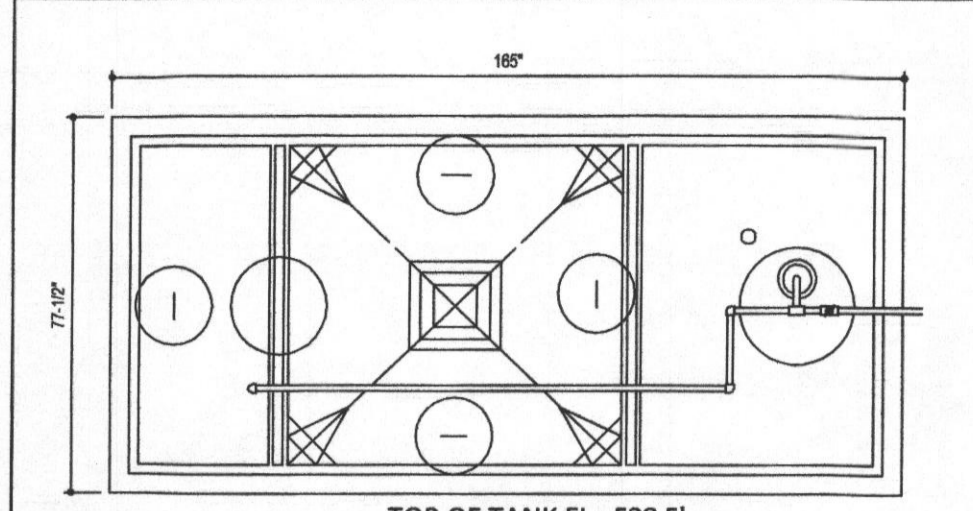
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SITE PLAN FOR BAT INSTALLATION
LOT 37
EDGEWOOD FARM
LIBER 10677, FOLIO 461
PLAT No. 19269
TAX No. 04-372654
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
ADDRESS: 14553 EDGEWOODS WAY
GLENELG, MARYLAND

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: 09/04/14
SCALE: 1"=40'
FILE: BAT LOT 37
CHK'D: M.J.B
JOB NO: 1498
DRAWN: R.C.K



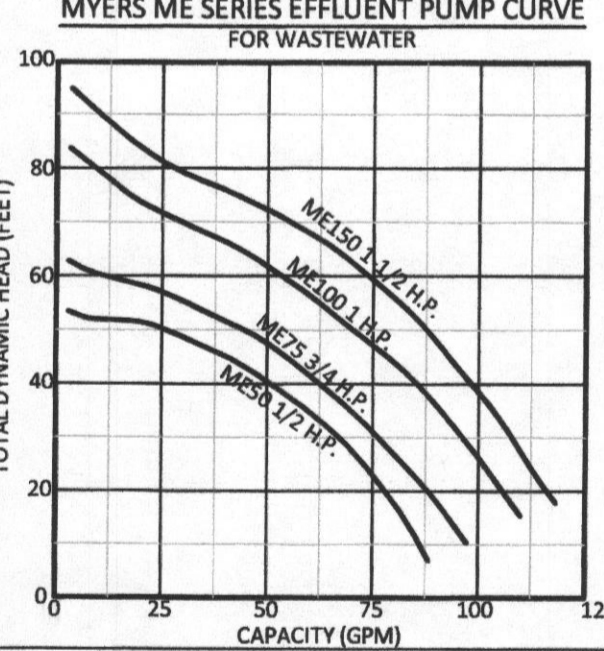
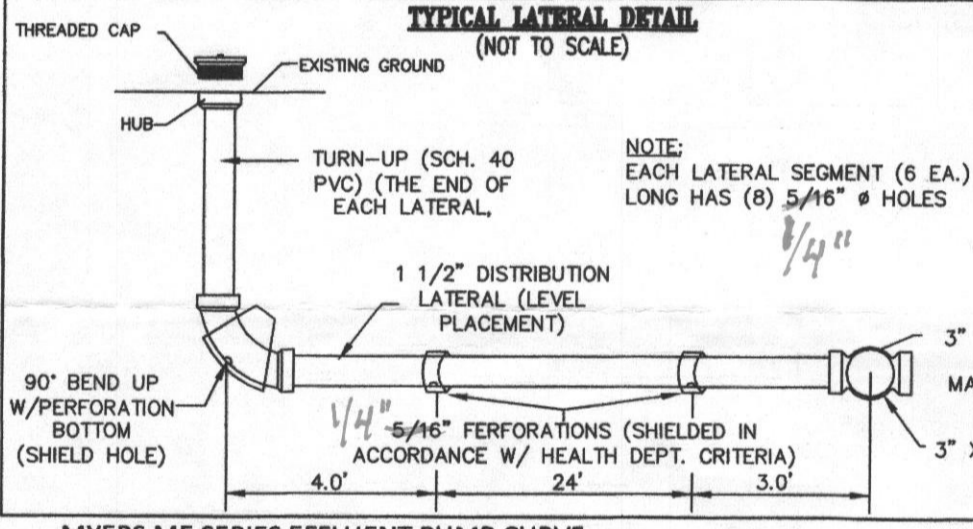
DESIGN DATA & GENERAL NOTES

(1) Concrete strength F_{cm} 4,800 p.s.i. @ 28 days. Density = 150 pcf.
 (2) Cement - Portland Type III per ASTM C 150-02.
 (3) Admixtures & plasticizers per ASTM C 260-08 & C 494-02.
 (4) Reinforcing per ASTM A185. Min. 1-1/2" cover.

Mayer Brothers, Inc.
 6304 Race Road
 Ellicott City, Maryland 21075
 Tel. 410.736.6434
 Fax. 410.736.6438
 www.mayerbrosprecast.com

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

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



SEWAGE DISPOSAL DATA (5 BDRM)

HOOT BNR600 (3 CHAMBER SYSTEM)

PROPOSED INVERT AT FOUNDATION WALL: 528.3'

1. EX. GRADE OVER TANK: 530.9'
 PROPOSED GRADE OVER TANK: 530.9'
 INVERT IN: 527.2' INVERT OUT: 527.5'

2. ABSORPTION BED:
 EXISTING GRADE OVER BED: 521.2'
 PROPOSED GRADE OVER BOX: 521.2'
 INVERT IN: 518.9'

LATERAL DETAILS (FOR ALL LATERALS - ALL LATERALS ARE AT SAME ELEVATION)

LATERAL	LAT. LENGTH	LAT. ELEV.	LAT. (DIA.)	(#) PERFORATIONS	HOLE SPACING	HOLE (DIA.)	DISCHARGE RATE	DISTAL HEAD
A	31'	518.9'	1 1/2"	8	4' (3' @ MAIN)	5/16"	13.04	2'
B	31'	518.9'	1 1/2"	8	4' (3' @ MAIN)	5/16"	13.04	2'
C	31'	518.9'	1 1/2"	8	4' (3' @ MAIN)	5/16"	13.04	2'
D	31'	518.9'	1 1/2"	8	4' (3' @ MAIN)	5/16"	13.04	2'
E	31'	518.9'	1 1/2"	8	4' (3' @ MAIN)	5/16"	13.04	2'
F	31'	518.9'	1 1/2"	8	4' (3' @ MAIN)	5/16"	13.04	2'

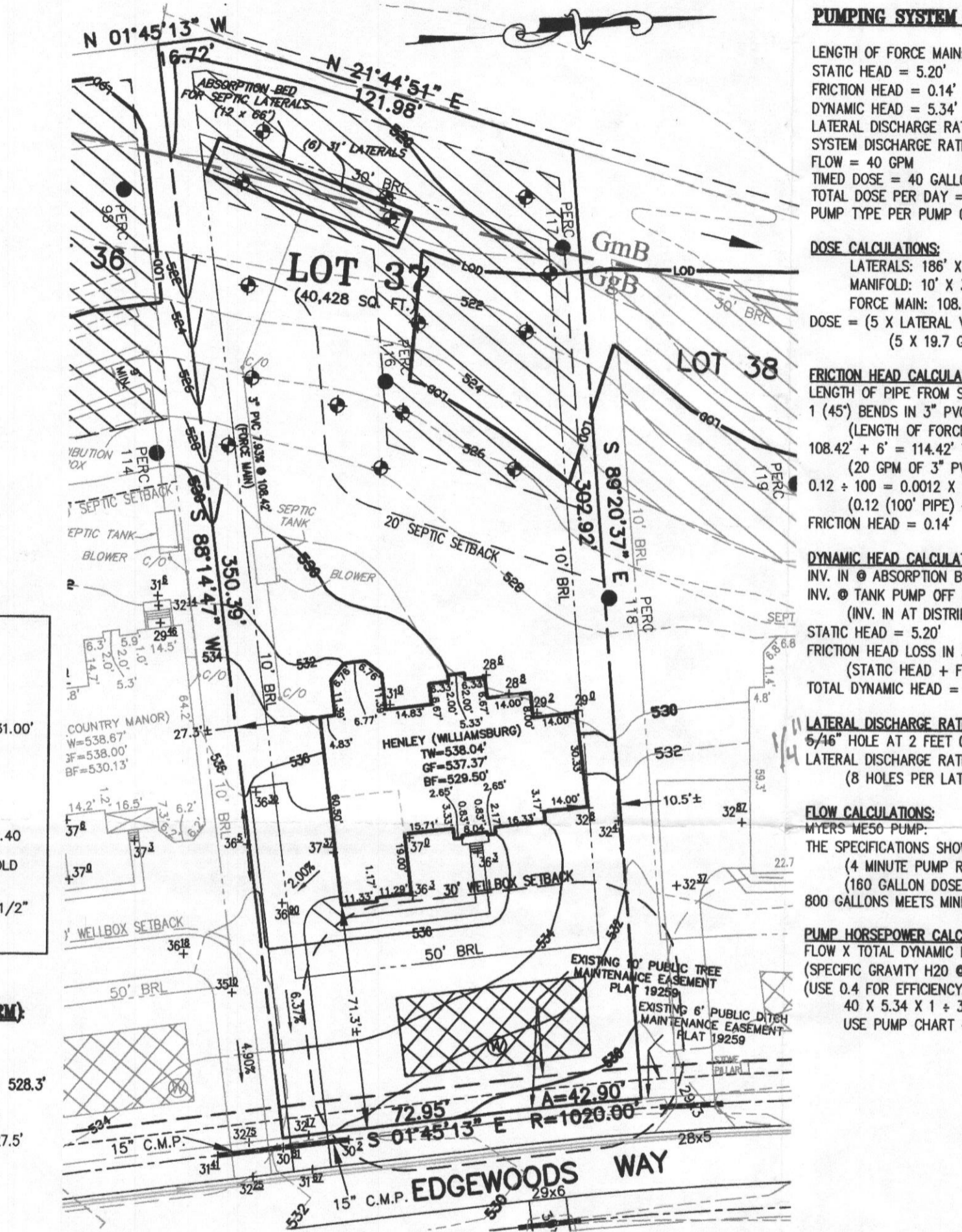
LEGEND:

- PERC TEST LOCATION
- NEW PERC TRENCH LOCATION
- WELL LOCATION
- LIMITS OF DISTURBANCE
- SOIL TYPE LINE
- GgB GLENELG LOAM, 3 TO 8% SLOPES
- GmB GLENVILLE SILT LOAM, 8 TO 15% SLOPES
- TW TOP OF WALL
- GF GARAGE FLOOR
- BF BASEMENT FLOOR
- BRL BUILDING RESTRICTION LINE

HOUSE OPTIONS:

TYPE: HENLEY (WILLIAMSBURG)
 WALK-OUT BASEMENT
 CONSERVATORY ELITE ADDITION
 ADD'L 1' TO HEIGHT OF BASMT WALLS
 NAPLES SUNROOM ADDITION

OPTION No. 017
 OPTION No. 039
 OPTION No. 070
 OPTION No. 529



PUMPING SYSTEM DATA:

LENGTH OF FORCE MAIN: 108.42' @ 3" DIA. PIPE
 STATIC HEAD = 5.20'
 FRICTION HEAD = 0.14'
 DYNAMIC HEAD = 5.34'
 LATERAL DISCHARGE RATE = 13.0 GPM PER LATERAL
 SYSTEM DISCHARGE RATE (MINIMUM) = 78 GPM
 FLOW = 40 GPM
 TIMED DOSE = 40 GALLONS @ 4 MINUTE INTERVALS
 TOTAL DOSE PER DAY = 160 GALLONS X 5 TIMES A DAY = 800 GPD
 PUMP TYPE PER PUMP CURVE CHART = MESO, 1/2 H.P.

LENGTH OF LATERAL FROM MANIFOLD:

LENGTH OF ABSORPTION BED: 66'
 CENTER FEED NETWORK (ABSORPTION BEDS LONGER THAN 41 FEET)
 (CENTER FEED LATERAL LENGTH = 1/2 BED LENGTH - 1/2 PERF. SPACING)
 66'(2) - 4'(2) = 33 - 2; LENGTH OF LATERALS = 31'

DOSE CALCULATIONS:

LATERALS: 186' X 10.6 GALLONS (VOLUME IN 1 1/2" DIA. PIPE) = 19.7 GALLONS
 MANIFOLD: 10' X 38.4 GALLONS (VOLUME IN A 3" DIA. PIPE) = 3.8 GALLONS
 FORCE MAIN: 108.42' X 38.4 GALLONS (VOLUME IN A 3" DIA. PIPE) = 41.6 GALLONS
 DOSE = (5 X LATERAL VOLUME) + ONE MANIFOLD VOLUME + ONE FORCE MAIN VOLUME:
 (5 X 19.7 GAL) + (3.8 GAL) + (41.6 GAL) = 144 GALLONS MINIMUM DOSE

FRICTION HEAD CALCULATIONS:

LENGTH OF PIPE FROM SEPTIC TANK TO ABSORPTION BED = 108.42'
 1 (45') BENDS IN 3" PVC = (ADD 6' PER BEND) = (1 X 6) = 6'
 (LENGTH OF FORCE MAIN + LENGTH OF PIPE FOR FRICTION LOSS PER BENDS)
 108.42' + 6' = 114.42' TOTAL PIPE PER FRICTION LOSS
 (20 GPM OF 3" PVC = 0.12 PER 100' OF PIPE)
 0.12 + 100 = 0.0012 X 114.42' (LEFT OVER PIPE) = 0.1373 (14.42' OF PIPE PRORATED)
 (0.12 (100' PIPE) + 0.0173 (PRORATED 14.42' LEFT OVER))
 FRICTION HEAD = 0.14'

DYNAMIC HEAD CALCULATIONS:

INV. @ ABSORPTION BED = 518.9'
 INV. @ TANK PUMP OFF FLOAT = 524.1'
 (INV. IN AT DISTRIBUTION BOX (-) ELEV. OF PUMP OFF SWITCH)
 STATIC HEAD = 5.20'
 FRICTION HEAD LOSS IN 3" DIA. PIPE = 0.14'
 (STATIC HEAD + FRICTION HEAD)
 TOTAL DYNAMIC HEAD = 5.34'

LATERAL DISCHARGE RATE CALCULATIONS:

5/16" HOLE AT 2 FEET OF HEAD (MINIMUM) DISCHARGES AT 1.63 GPM.
 LATERAL DISCHARGE RATE = (NUMBER OF HOLES PER LATERAL X DISCHARGE RATE PER HOLE)
 (8 HOLES PER LATERAL X 1.63 GPM PER HOLE) = 13.04

FLOW CALCULATIONS:

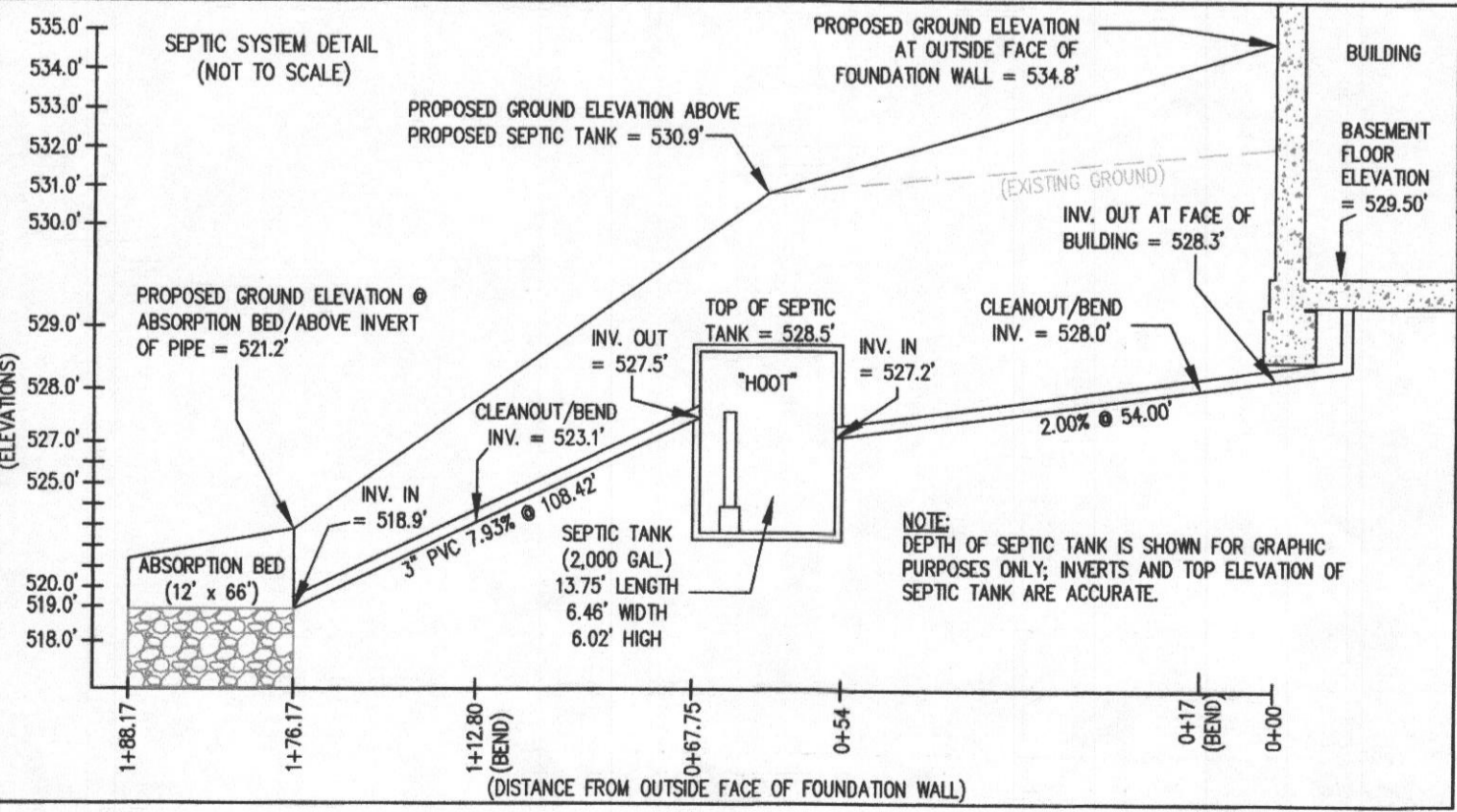
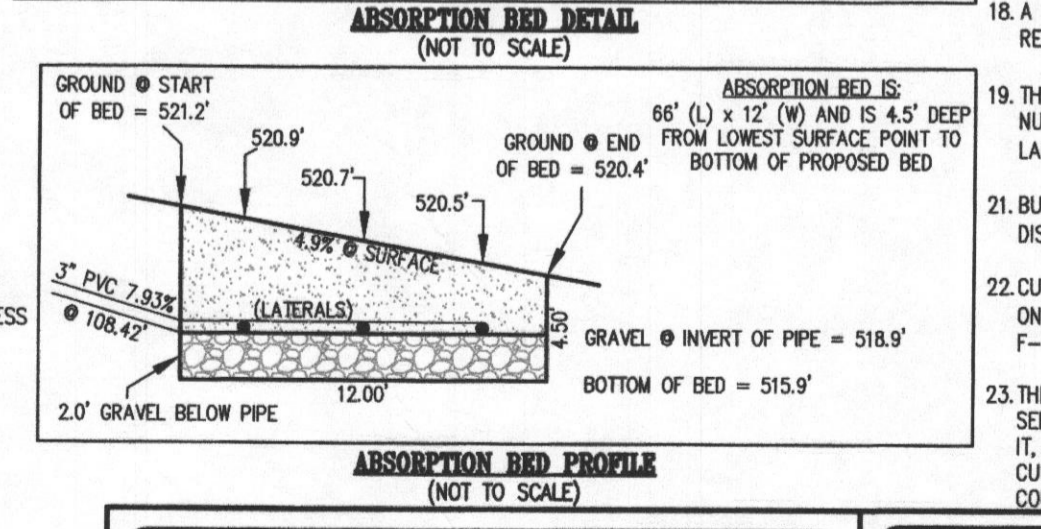
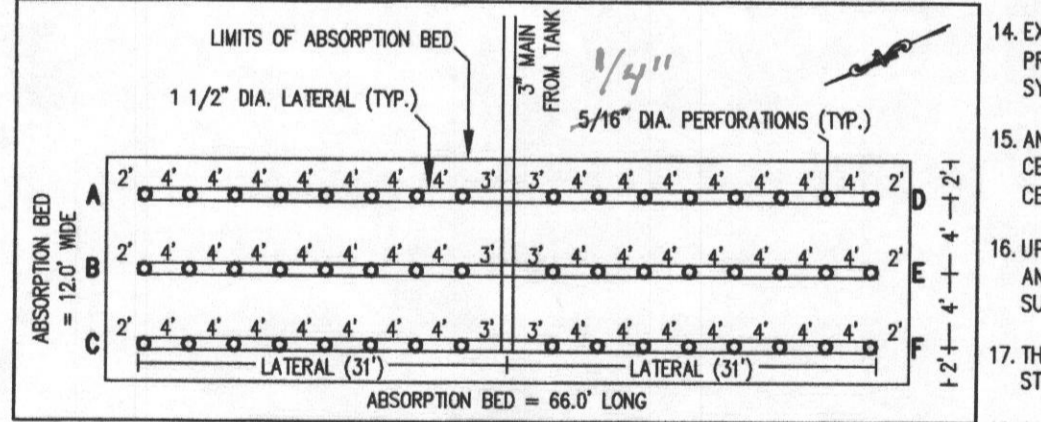
MYERS ME50 PUMP:
 THE SPECIFICATIONS SHOW IT PUMPS 120 GPM (MAXIMUM) AT A HEAD OF 95'.
 (4 MINUTE PUMP RUN TIME X 40 GPM = 160 GALLON DOSE)
 (160 GALLON DOSE X 5 EVENTS PER DAY = 800 GALLONS)
 800 GALLONS MEETS MINIMUM DAILY REQUIREMENTS.

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)
 40 X 5.34 X 1 ÷ 3960 X 0.4 = 213.6 ÷ 1,584.0 = 0.13
 USE PUMP CHART - PUMP = MESO, 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.



APPROVED: FOR HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DIRECTOR

PROFESSIONAL ENGINEER

DATE

DATE

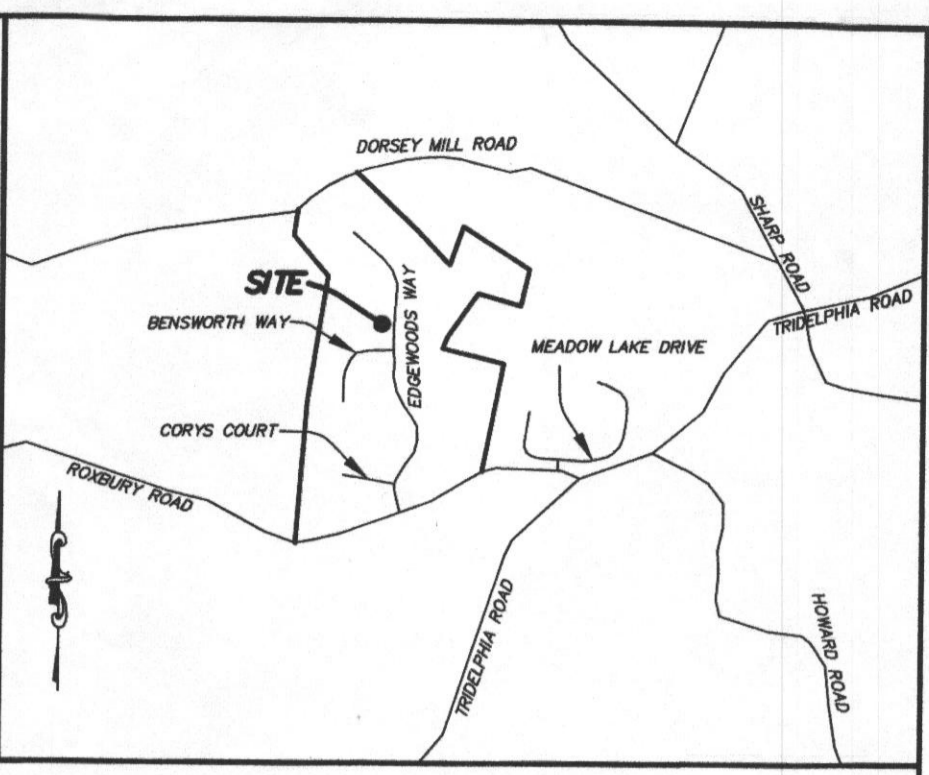
DATE

SITE PLAN FOR BAT INSTALLATION
 LOT 37
EDGEWOOD FARM
 LIBER 10677, FOLIO 461
 PLAT No. 19269
 TAX No. 04-372654
 FOURTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 ADDRESS: 14553 EDGEWOODS WAY
 GLENELG, 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: 04/08/15 SCALE: 1"=40' FILE: BAT LOT 37_rev1
 CHK'D: M.J.B. JOB NO: 1498 DRAWN: R.C.K.



- 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. 19269.
 - THE EXISTING TOPOGRAPHY WITHIN THE AREA OF PROPOSED WORK IS TAKEN FROM FIELD SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY ESE, DATED 4/27/11.
 - 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: 37,567 SQ. FT. / 0.86 AC.±
 - STORMWATER MANAGEMENT PER PLAN F-06-10B.
 - 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 HAVE BEEN MADE TO SEPTIC AREA PER "PERCOLATION CERTIFICATION REVISION PLAN" DATED 04/08/2015 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-06-10B.
 - A STANDARD SEDIMENT CONTROL PLAN MAY BE USED FOR DEVELOPMENT OF THIS LOT. REFERENCE GRADING PLAN GP-14-031, DATED 10/31/13.
 - THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-0554 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 A 15" CORRUGATED METAL PIPE (CMP) PER NOTE 30 AS SHOWN ON SHEET LABELED "ROADS, STORMWATER MANAGEMENT AND STORM DRAIN PLANS" IN THE F-06-10B PLAN.
 - THIS SEPTIC PLAN REVISION WAS REQUIRED DUE TO ROCK BEING FOUND WHEN DIGGING THE SEPTIC TRENCHES FOR THE PREVIOUS APPROVED SEPTIC PLAN WITH THE ECOPOD SYSTEM ON IT, ECOPOD IS NO LONGER BEING USED BUT ALSO DUE TO THE ROCK WE HAD TO DO A CUSTOM ABSORPTION BED UNDER THE GUIDANCE AND RECOMMENDATIONS OF THE HOWARD COUNTY HEALTH DEPARTMENT.

1/4" Lateral Perforations

