



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

RECEIPT DATE: 5-2-23

Maura J. Rossman, M.D., Health Officer  
**ONSITE SEWAGE DISPOSAL SYSTEM**

P 5/24/09

APPROVAL DATE: 9/19/2023

**PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 10529 Pudding Lane

SUBDIVISION: Kings Forest

LOT: 37

TAX ID:

CONTRACTOR: Forbes Septic Clean Inc

EMAIL: Kim@forbes.com

CONTRACTOR ADDRESS: 580 Dorecht Rd. Sykesville, MD 21784

PHONE: 410-795-5200

CONTRACTOR CERTIFIED FOR BAT INSTALLATION:



MDE



MANUFACTURER:

PROPERTY OWNER: Toll Brothers

EMAIL: Sriley1@tollbrothers.com

OWNER ADDRESS: 6731 Columbia Gateway Drive, Suite 120

PHONE: (410) 872-9105

BAT UNIT MODEL: Norweco

PUMP SIZE: M:EP50

PUMP TANK CAPACITY: 2000 Gallon

OPERATION & MAINTENANCE AGREEMENT

DATE SIGNED:

DATE RECORDED:

DISTRIBUTION SYSTEM: ☐ GRAVITY

☐ PRESSURE DOSED

BEDROOMS: 6

APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED:	<u>125</u>	INLET DEPTH:	<u>3'2.5'</u>
	TRENCH WIDTH:	<u>3'</u>	MAXIMUM BOTTOM DEPTH:	<u>8'</u>
	MINIMUM SPACE BETWEEN TRENCHES:	<u>10'</u>	EFFECTIVE AREA BEGINNING DEPTH:	<u>3'.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:	*****Electrical Permit Needed*****			

ISSUED BY: Dana Bernard

ISSUE DATE: 12-6-22

EXPIRATION DATE: 12-6-23

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 DOWNGRAIENT 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 2302346

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

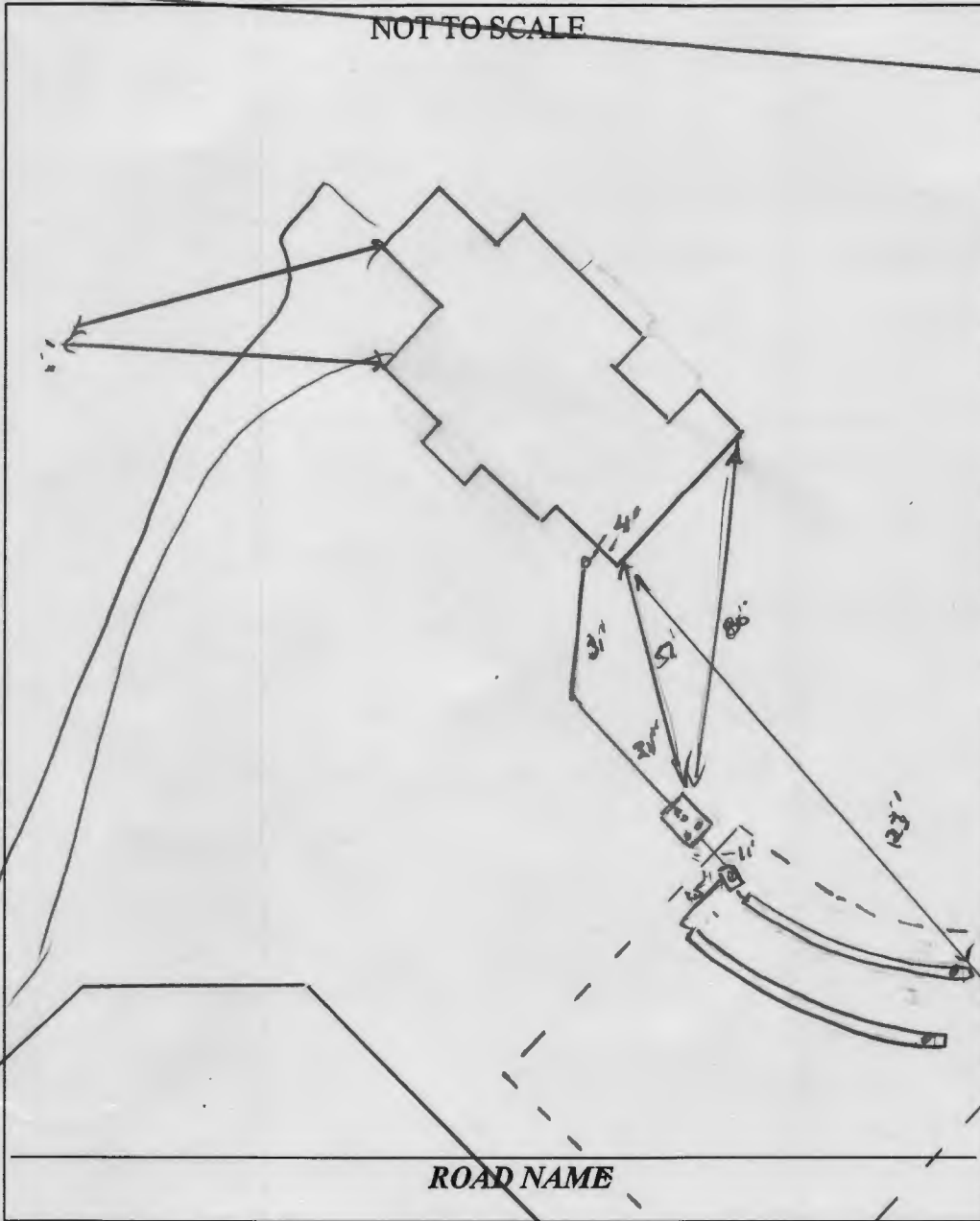
NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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



**TRENCH/DRAINFIELD DATA**

WIDTH 3 INLET 2.5 BOTTOM 8

NUMBER OF TRENCHES \_\_\_\_\_

TOTAL LENGTH \_\_\_\_\_

ABSORPTION AREA \_\_\_\_\_

DISTRIBUTION BOX LEVEL Level

DISTRIBUTION BOX BAFFLE Yes

DISTRIBUTION BOX PORT Yes

**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL Yes

MANUFACTURER 750 LP M...

CAPACITY \_\_\_\_\_ GAL

SEAM LOC Top

TANK LID DEPTH 12"

BAFFLES -

BAFFLE FILTER N/A

MANHOLE LOC Room

6" PORT LOC East / Rear

WATERTIGHT TEST -

SLOTTED Yes

DATE ON LID 6/7/2023

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:**

6/17/2023 - SDA not started, snow fence around the area; undisturbed. (S)

6/22/2023 - SDA & trenches started. Site undisturbed. Trench lengths @ 62.5'. Upper trench on contour by 0.5'-2" & lower trench on contour by 0.5'-1". Tank started, location > 100' from well. D-box started. Sewer coming out of house per plan. (S) to start work. (S)

INSTALLATION: 6/27/2023 Tank and trenches installed per plan. Will need start-up art before final approval.  
8/19/2023 Start-up art. received.

FINAL INSPECTOR

K. Wang

DATE OF APPROVAL

9/19/2023

**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 5<sup>th</sup> day of October, among Al. Shaghghi and Kiana Kavan, 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 lot 37, 10529 Pudding Lane, in the 3<sup>rd</sup> Election District of Howard County, Maryland, and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 23, Block # 23, Parcel # 0148, Deed Reference # 25764-68 and Tax Account # 003405 ("the Property").

WHEREAS, The Property 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 November 24, 2016. The pre-treatment device being installed is

Norweco TN7LP-750GPD

NOW, THEREFORE, the parties hereto agree as follows:

A. Owner hereby grants to the County the right to enter upon the Property at any reasonable time with prior notice 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.

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 Property 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 Property that the system shall require maintenance or other attention. Upon taking title to the Property, 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 this agreement on the date indicated above.

 10/5/23  
Howard County Health Department

Owner #1 Signature

Date

10/5/23

Ali Shahabpour  
Owner #1 Print Name

Owner #2 Signature

Date

10/5/23

Kiana Kavian  
Owner #2 Print Name

Buyer #1 Signature

Date

Buyer #2 Signature

Date

Buyer #1 Print Name

Buyer #2 Print Name





BACK RIVER PRE-CAST, LLC  
 PO BOX 329  
 GLYNDON, MD 21071  
 PH# 410-833-3394

### NORWECO CERTIFICATION

PROPERTY OWNER: TOLL MID-ATLANTIC	INSTALLATION COMPANY: FOGLES SEPTIC
ADDRESS: 10529 PUDDING LANE	CERTIFIED INSTALLER: JAMIE DEEVERS
CITY, ZIPCODE & COUNTY: ELLICOTT CITY, 21042, HOWARD	PERMIT#
SIZE OF SYSTEM INSTALLED:	DATE INSTALLED: 06-27-23
750 GPD CONCRETE	START-UP DATE: 09-19-23
NUMBER OF BEDROOMS:	DATE OF FINAL INSPECTION:
TYPE OF INSTALLATION: NEW	DATE OF ELECTRICAL INSPECTION:
ELECTRICAL WIRING PER ELECTRICAL INSTRUCTIONS: YES	TANK LEVEL: YES
HT. OF CONTROL PANEL ABOVE FINAL GRADE: 36"	BURIAL DEPTH OF TANK: 12"
SYSTEM WIRED ON A 15-AMP DEDICATED CIRCUIT WITH STD. BREAKER: YES	RISERS 4" - 6" ABOVE GRADE: YES
LENGTH(S) OF UF WIRE PAST LAST AERATION RISER(S): 30"	VENTED LID(S) ON AERATION CHAMBER(S): YES
FEMALE PLUG(S) WIRED TO UF WIRE: YES	ANY GROUND SETTLING AROUND TANK:
CONDUIT(S) ENTERING AERATION RISER MADE WITH A WATERTIGHT CONNECTION: YES	NO
ISTHE INSIDE OF THE CONDUIT ENTERING THE CONTROL PANEL(S) AND AERATION RISER(S) SEALED WITH DUCT SEAL: YES	

ON 2<sup>ND</sup> PAGE MAKE A ROUGH SKETCH OF THE HOUSE ,WHERE THE SYSTEM IS LOCATED, WHERE THE CONTROL PANEL IS LOCATED , WHERE THE FRONT OF THE IS AND DIRECTIONS TO THE PROPERTY.

DIRECTIONS CAN START A FEW STREETS AWAY

EXAMPLE: RT. X LEFT ONTO XX STREET RIGHT ONTO PRIVATE DRIVEWAY 5<sup>TH</sup> HOUSE OF THE LEFT.

I certify that the Norweco Singulair TNT Wastewater Treatment System was installed according to the manufacture's specifications.

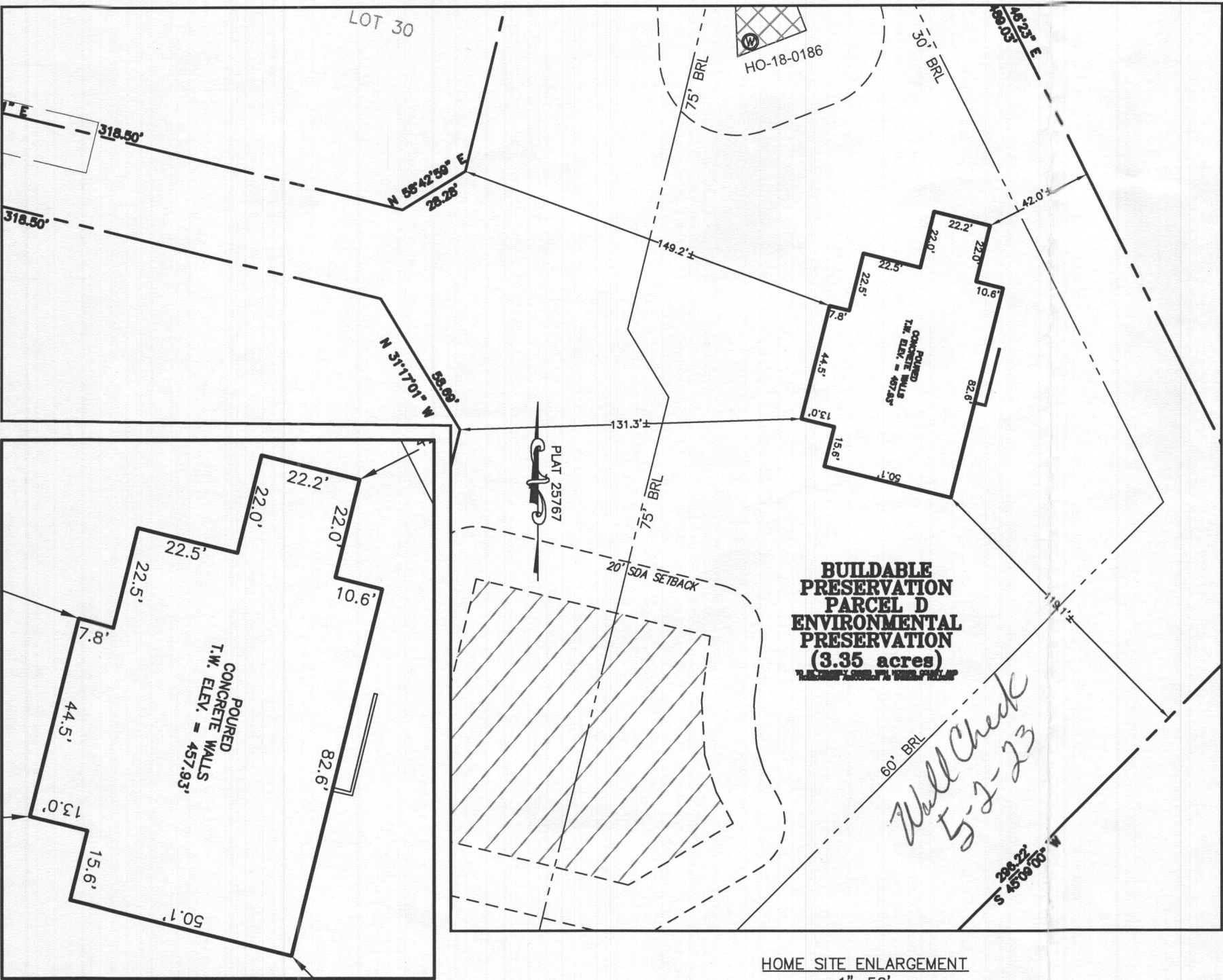
Matthew Geckle

September 19, 2023

Signature of BRP Representative

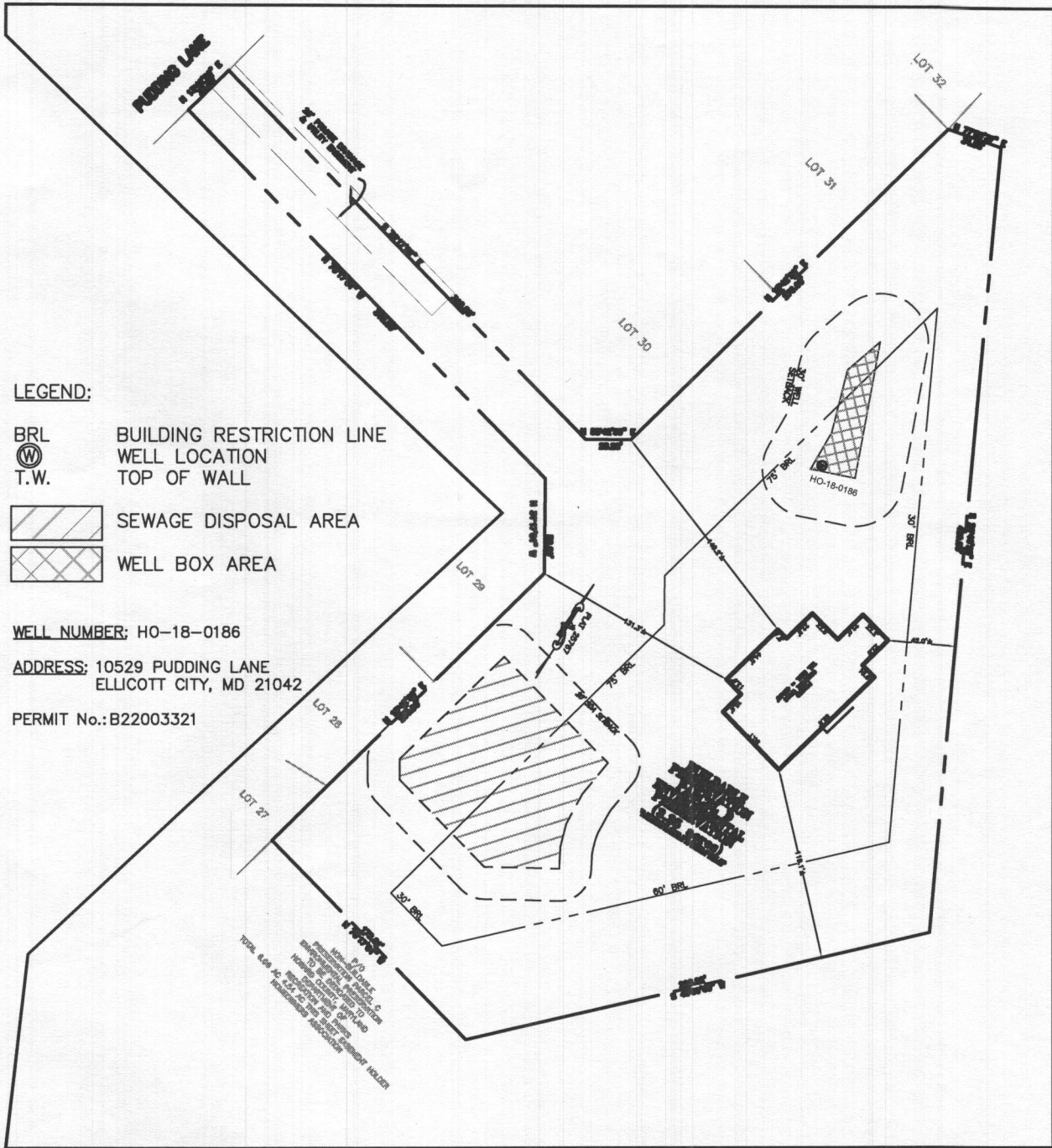
Vice-President

Date



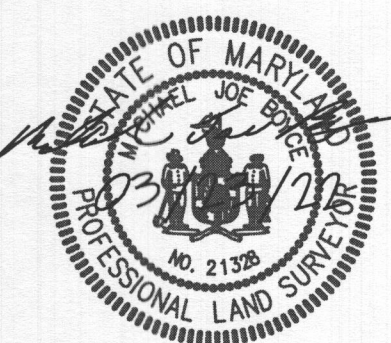
HOUSE ENLARGEMENT  
NOT TO SCALE

HOME SITE ENLARGEMENT  
1"=50'



OVERALL LOT  
1"=100'

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



**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.**  
*Michael Joe Boyce* 21328 03/23/22  
SIGNATURE: MICHAEL JOE BOYCE MD. LIC NO. DATE

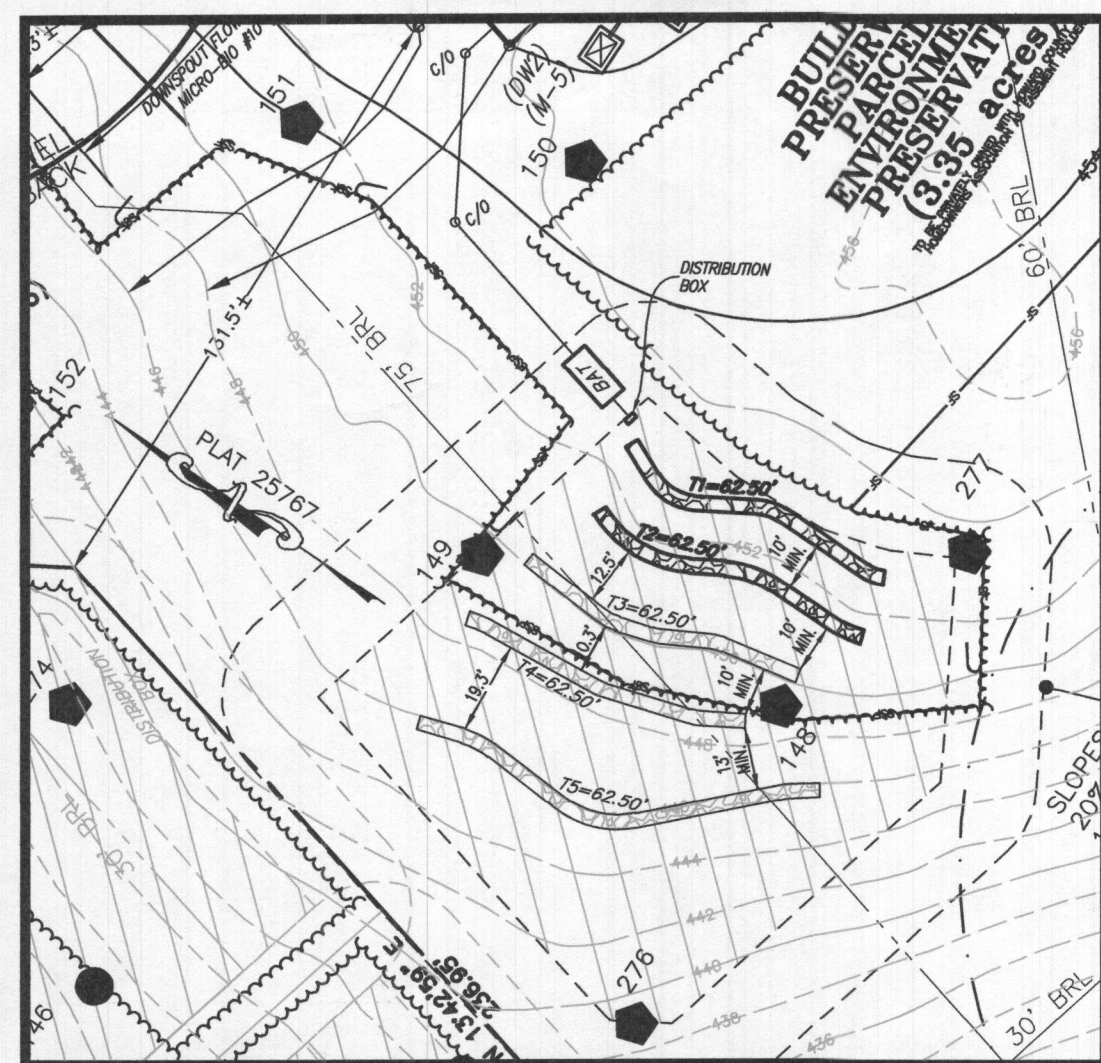
**WALLCHECK  
BUILDABLE  
PRESERVATION PARCEL D  
(T.B.I. LOT 37)  
KINGS FOREST**  
LIBER 20039, FOLIO 212  
PLAT NO. 25767  
ELECTION DISTRICT No. 4  
HOWARD COUNTY, MARYLAND

**ESE CONSULTANTS**  
ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL  
ESE Consultants, Inc.  
6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046  
T: 410-872-9105

DATE: 03/23/2023 SCALE: AS NOTED FILE: WC LOT 37  
CHK'D: M.J.B. JOB NO: 3502 DRAWN: V.X.P.



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 1/8/23.



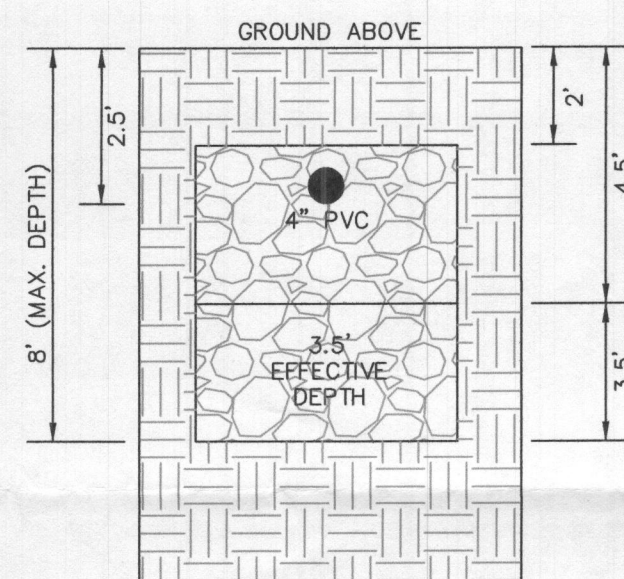
ENLARGEMENT  
SCALE: 1"=40'

#### INITIAL TRENCH DATA:

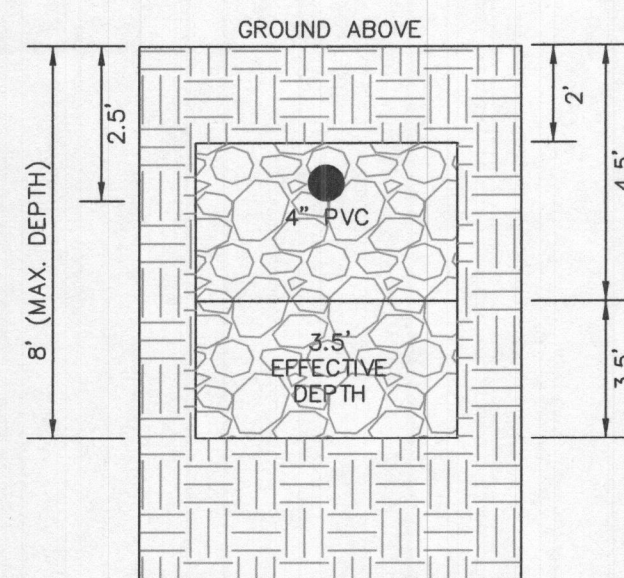
BOTTOM MAX. DEPTH (8')

**TRENCH 1 (T1): 62.50' L.F.**  
GROUND ABOVE = 452.40'  
INV. IN = 449.90'  
BOTTOM TRENCH = 444.40'

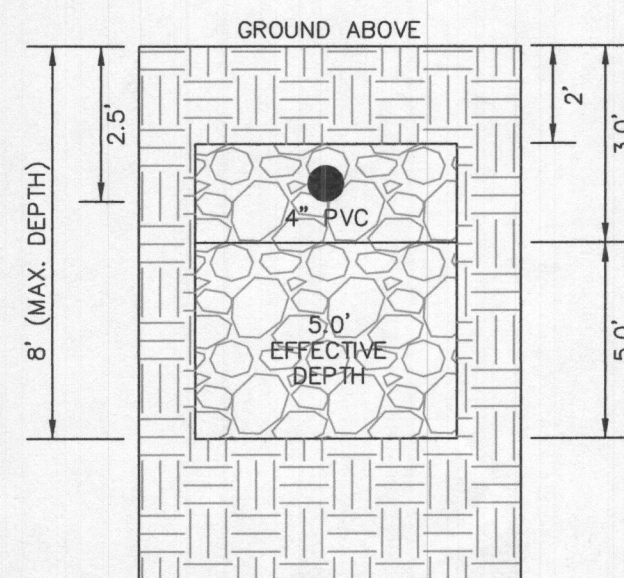
**TRENCH 2 (T2): 62.50' L.F.**  
GROUND ABOVE = 451.50'  
INV. IN = 449.00'  
BOTTOM TRENCH = 443.50'



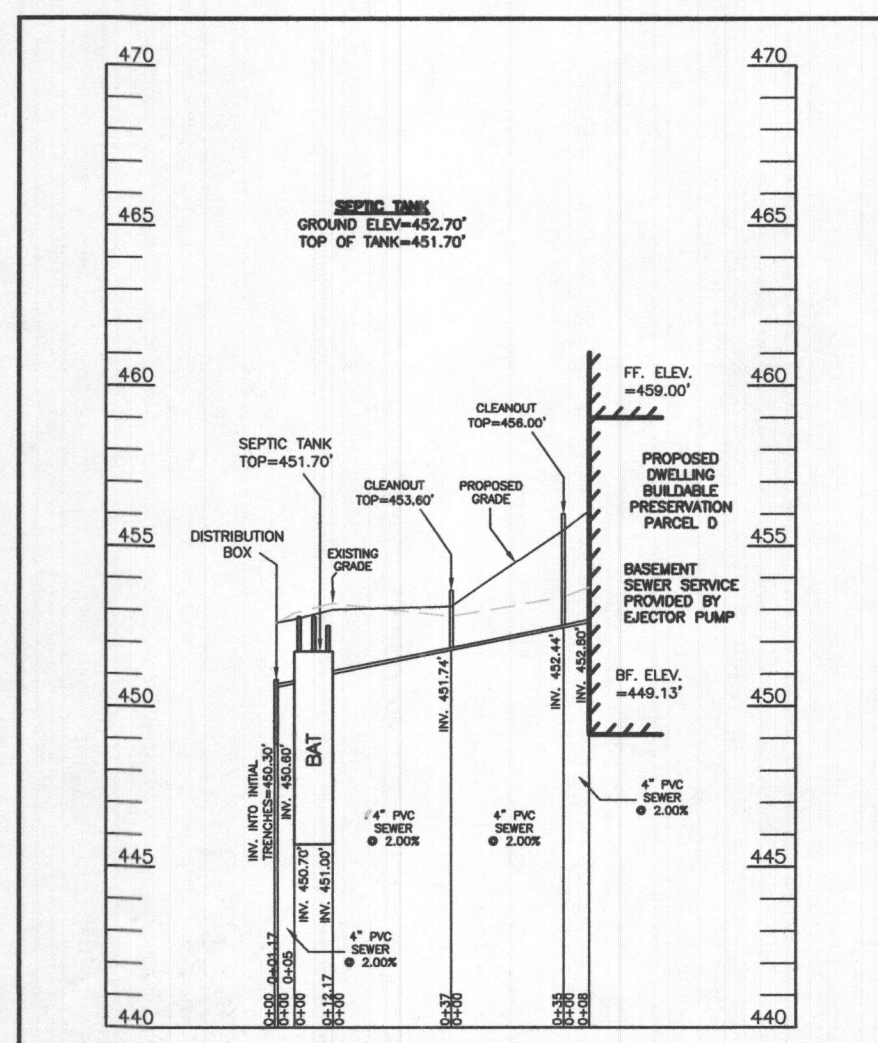
INITIAL SYSTEM  
TRENCH DETAIL (T1) AND (T2)  
(NOT TO SCALE)



1ST REPLACEMENT SYSTEM  
TRENCH DETAIL (T3) AND (T4)  
(NOT TO SCALE)



2ND REPLACEMENT SYSTEM  
TRENCH DETAIL (T5)  
(NOT TO SCALE)



SEPTIC SYSTEM PROFILE  
SCALE = HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'

#### SEWAGE DISPOSAL SYSTEM DATA (6 BDRM):

PROPOSED INVERT AT FOUNDATION WALL: 452.60'  
1. EX. GRADE OVER TANK: 453.20'  
PROPOSED GRADE OVER TANK: 452.70'  
INVERT IN: 451.00' INVERT OUT: 450.70'

2. DISTRIBUTION BOX  
EXISTING GRADE OVER TANK: 452.60'  
PROPOSED GRADE OVER TANK: 452.60'  
INVERT IN: 450.60' INVERT OUT: 450.30'

3. INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
900 GPD ÷ 1.2 APP. RATE = 750 SF  
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE  
10' MIN. SPACING BETWEEN TRENCH EDGES  
750 SF ÷ 3' WIDTH = 250 LF x 0.50 (SIDEWALL REDUCTION) = 125 LF MIN.  
USE 2 62.50' LONG TRENCHES = 125 LF

4. 1ST REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
900 GPD ÷ 1.2 APP. RATE = 750 SF  
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE  
10' MIN. SPACING BETWEEN TRENCH EDGES  
750 SF ÷ 3' WIDTH = 250 LF x 0.50 (SIDEWALL REDUCTION) = 125 LF MIN.  
USE 2 62.50' LONG TRENCHES = 125 LF

5. 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
900 GPD ÷ 1.2 APP. RATE = 750 SF  
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE  
13' MIN. SPACING BETWEEN TRENCH EDGES  
750 SF ÷ 3' WIDTH = 250 LF x 0.36 (SIDEWALL REDUCTION) = 90 LF MIN.  
USE 1 90' LONG TRENCHES = 90 LF



Approved Septic System Plan  
Howard County Health Department  
Signature: D. Bonard  
Date: 12-6-22

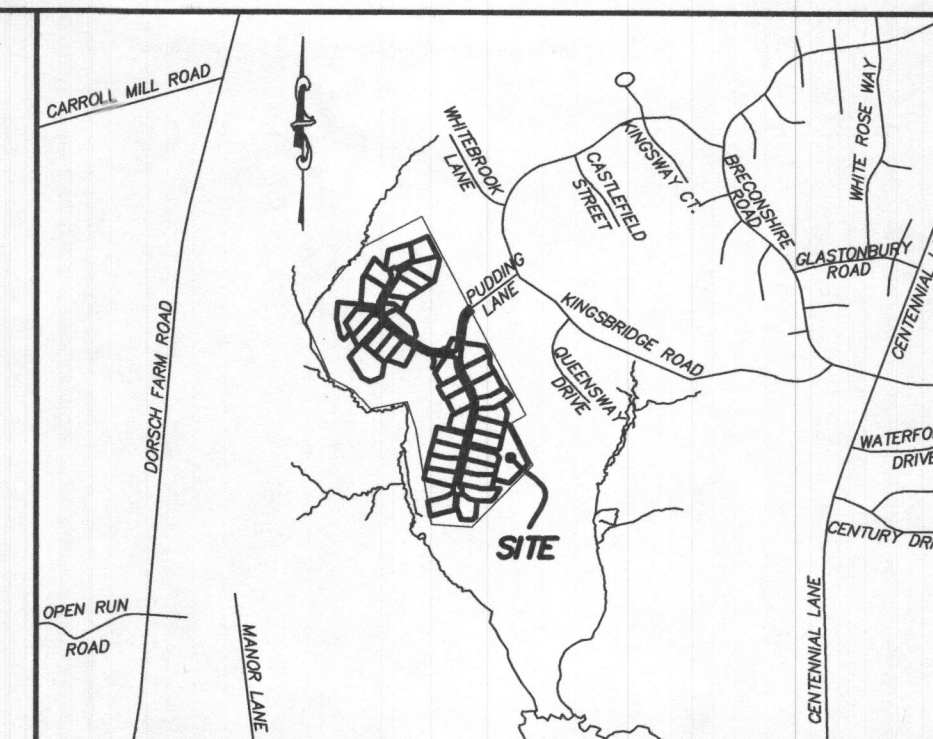
#### LEGEND:

- BRL BUILDING RESTRICTION LINE
- W.W. WELL LOCATION
- G.F. GARAGE FLOOR
- B.F. BASEMENT FLOOR
- P.P. PASSED PERC LOCATION
- F.P. FAILED PERC LOCATION
- SEWAGE DISPOSAL AREA
- WELL BOX AREA
- PROPOSED TREE

#### WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR BUILDABLE PRESERVATION PARCEL D (TAG NO. HO-18-0186) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

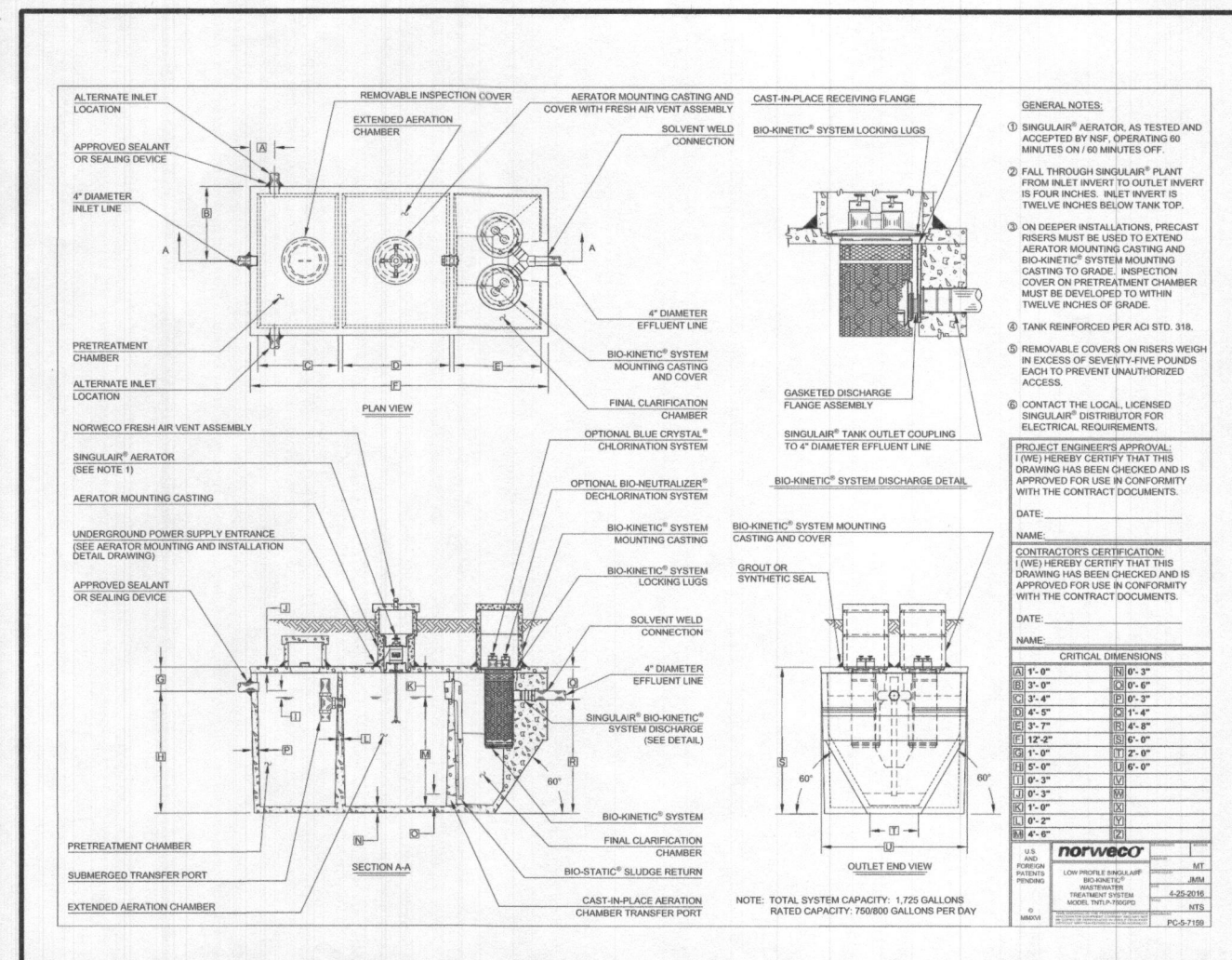
SITE PLAN FOR BAT INSTALLATION  
BUILDBLE PRESERVATION PARCEL D  
(T.B.I. LOT 37)  
**KINGS FOREST**  
LIBER 20039, FOLIO 212  
PLAT NO. 25767  
ELECTION DISTRICT No. 2  
HOWARD COUNTY, MARYLAND  
ADDRESS: 10529 PUDDING LANE  
ELLICOTT CITY, MARYLAND 21042



VICINITY MAP  
1" = 1000'

#### GENERAL NOTES:

- THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA 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 AREAS 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 AREA. RECORDATION OF A MODIFIED SEWAGE AREA 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.
- BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
- ANY CHANGES 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 EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY BENCHMARK ENGINEERING, INC., IN FEBRUARY 2014.



**ESE CONSULTANTS**  
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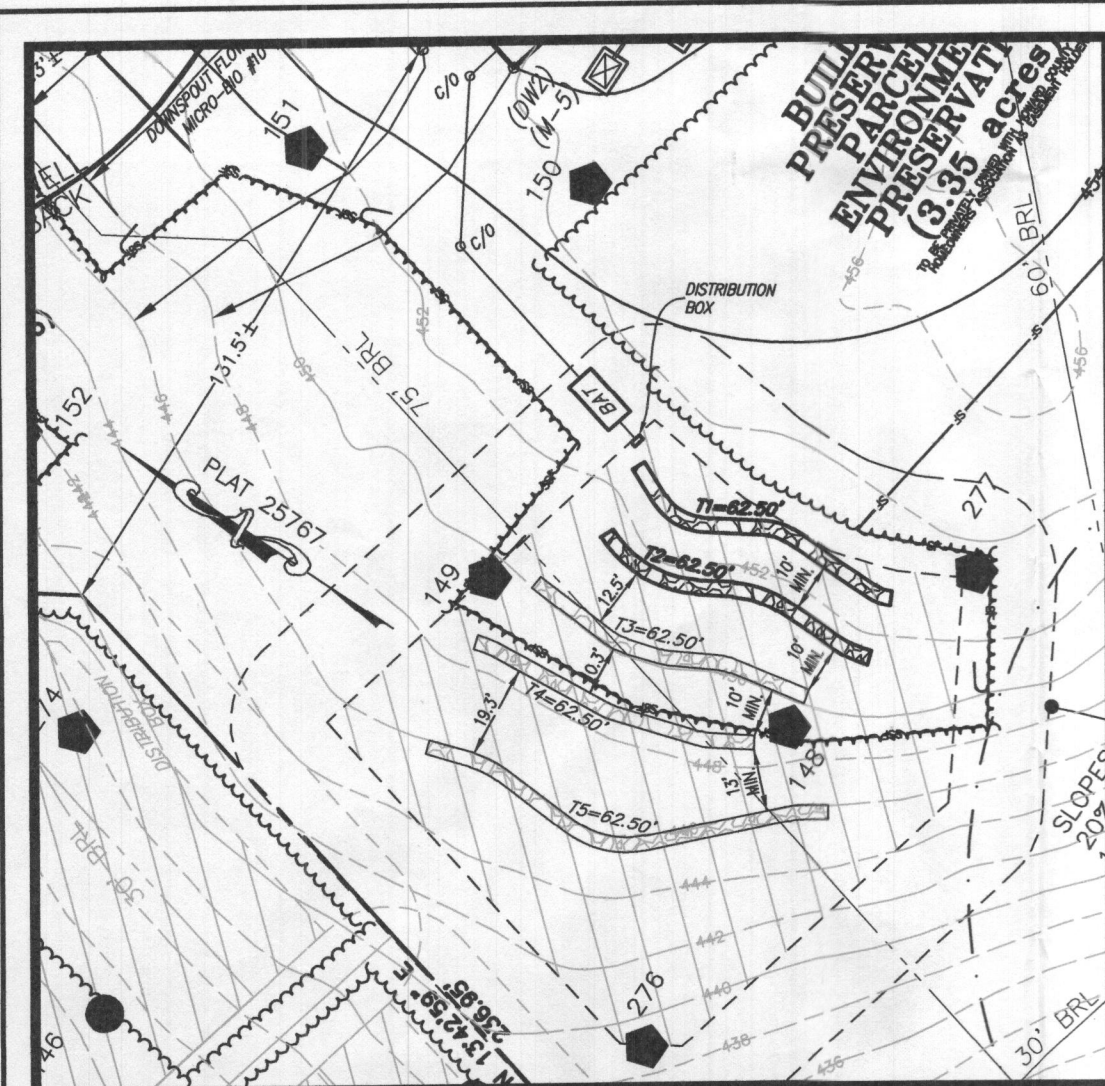
DATE: 11/12/2022  
CHK'D: M.J.B.

SCALE: 1"= 50'  
JOB NO: 4520

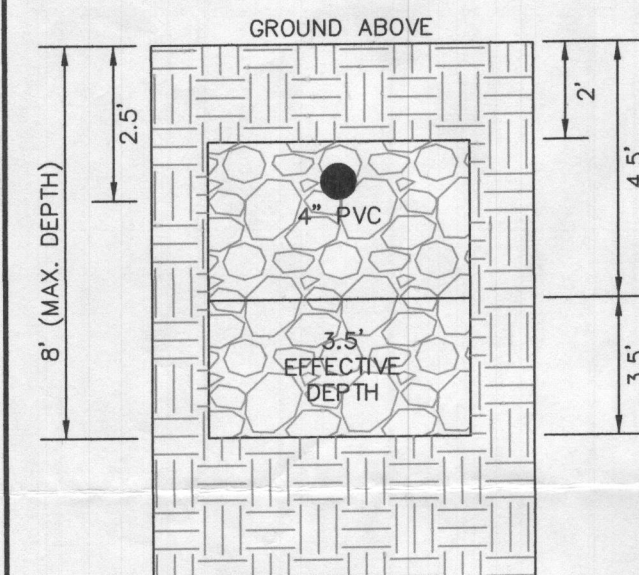
FILE: BAT PARCEL D  
DRAWN: R.C.K.



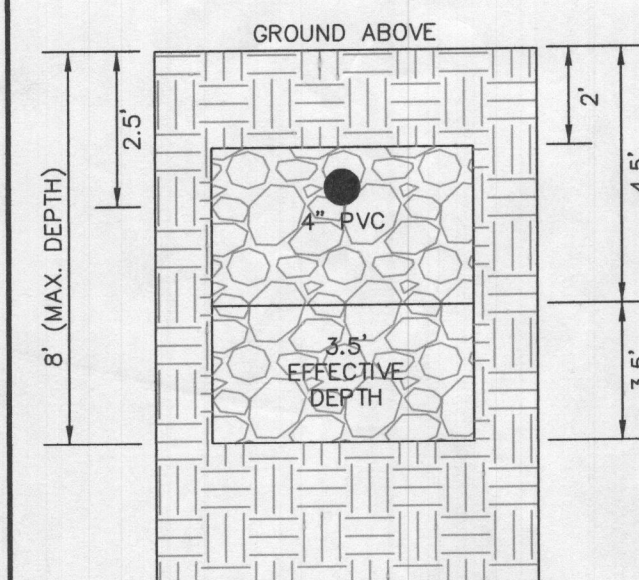
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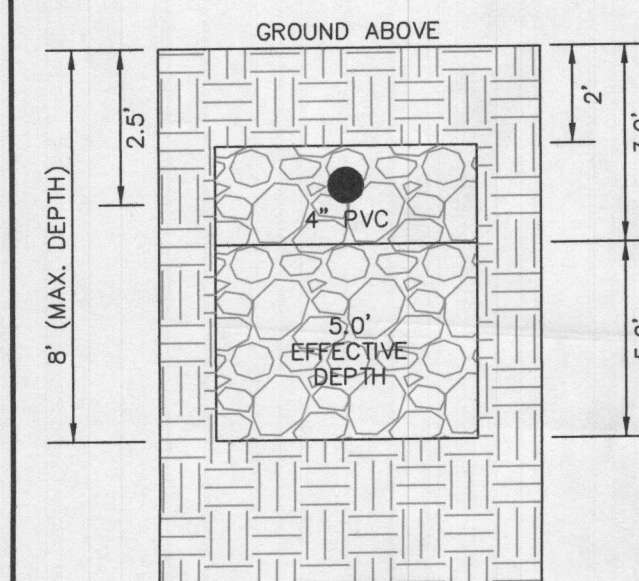
ENLARGEMENT  
SCALE: 1"=40'



INITIAL SYSTEM  
TRENCH DETAIL (T1) AND (T2)  
(NOT TO SCALE)



1ST REPLACEMENT SYSTEM  
TRENCH DETAIL (T3) AND (T4)  
(NOT TO SCALE)



2ND REPLACEMENT SYSTEM  
TRENCH DETAIL (T5)  
(NOT TO SCALE)

### INITIAL TRENCH DATA:

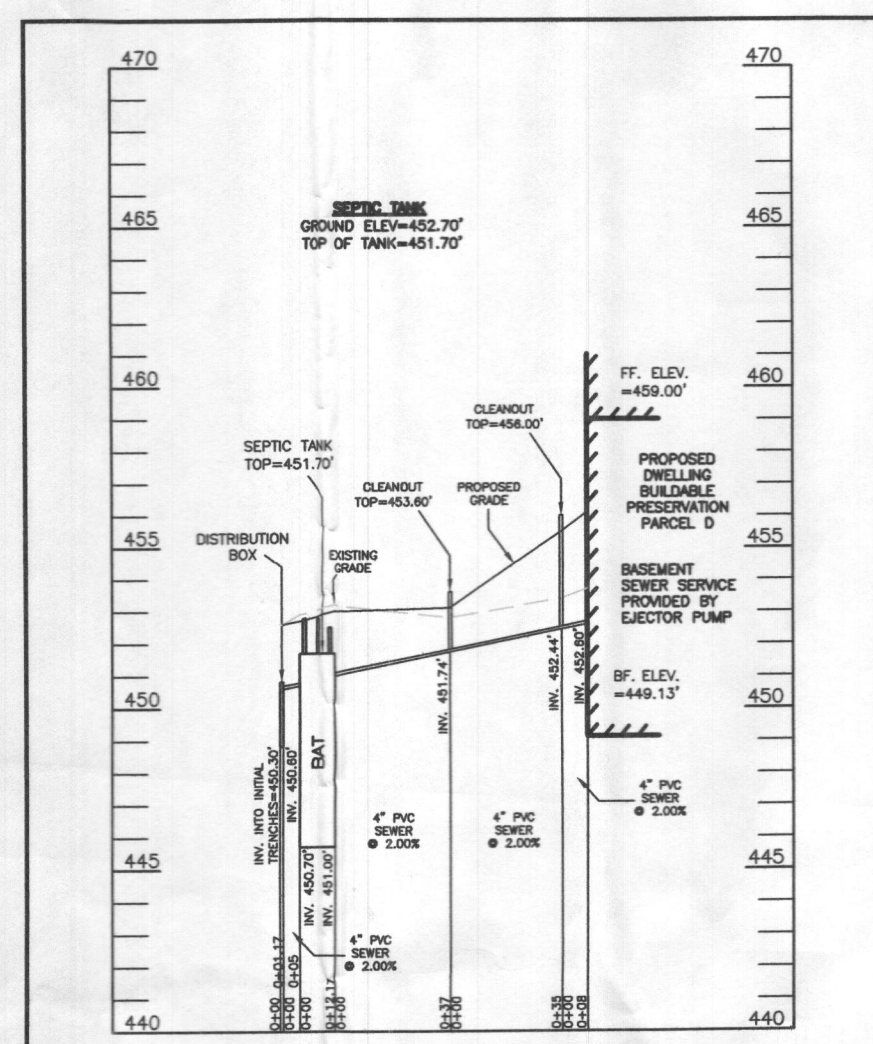
BOTTOM MAX. DEPTH (8')

TRENCH 1 (T1): 62.50' L.F.

GROUND ABOVE = 452.40'  
INV. IN = 449.90'  
BOTTOM TRENCH = 444.40'

TRENCH 2 (T2): 62.50' L.F.

GROUND ABOVE = 451.50'  
INV. IN = 449.00'  
BOTTOM TRENCH = 443.50'



SEPTIC SYSTEM PROFILE  
SCALE = HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'

### SEWAGE DISPOSAL SYSTEM DATA (6 BDRM):

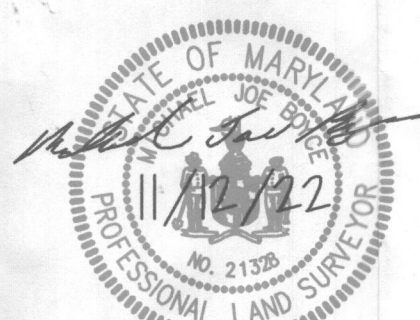
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2. DISTRIBUTION BOX  
EXISTING GRADE OVER TANK: 452.60'  
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3. INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
900 GPD ÷ 1.2 APP. RATE = 750 SF  
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE  
10' MIN. SPACING BETWEEN TRENCH EDGES  
750 SF ÷ 3' WIDTH = 250 LF x 0.50 (SIDEWALL REDUCTION) = 125 LF MIN.  
USE 2 62.50' LONG TRENCHES = 125 LF

4. 1ST REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
900 GPD ÷ 1.2 APP. RATE = 750 SF  
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750 SF ÷ 3' WIDTH = 250 LF x 0.50 (SIDEWALL REDUCTION) = 125 LF MIN.  
USE 2 62.50' LONG TRENCHES = 125 LF

5. 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
900 GPD ÷ 1.2 APP. RATE = 750 SF  
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE  
13' MIN. SPACING BETWEEN TRENCH EDGES  
750 SF ÷ 3' WIDTH = 250 LF x 0.36 (SIDEWALL REDUCTION) = 90 LF MIN.  
USE 1 90' LONG TRENCHES = 90 LF



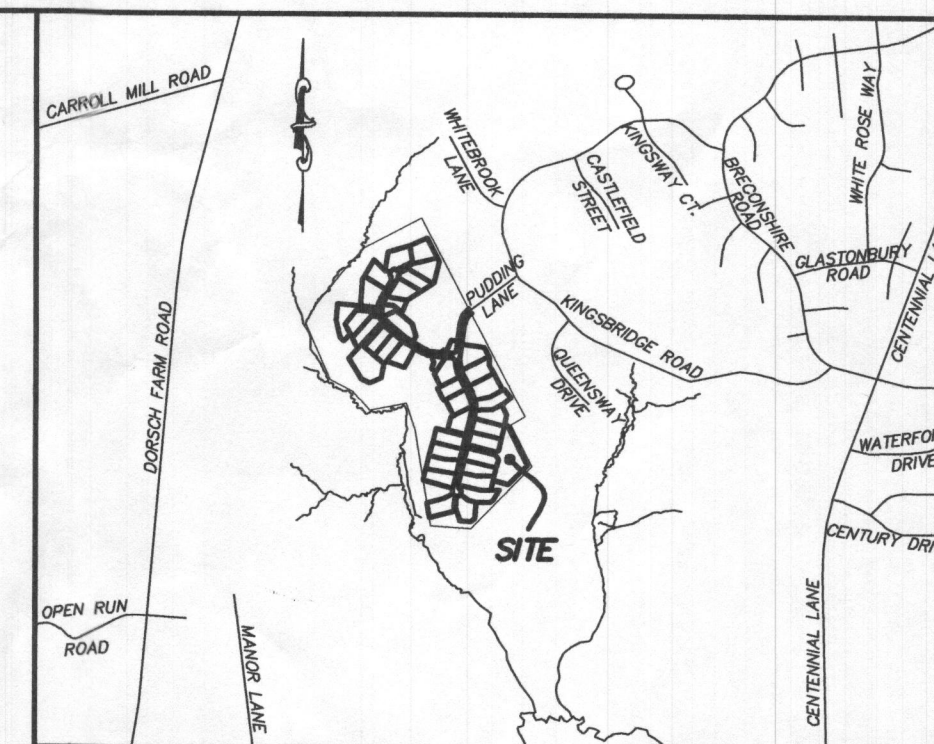
Signature: *Joe B. Beard*  
Date: 12-6-22

### LEGEND:

- BRL BUILDING RESTRICTION LINE
- W.W. WELL LOCATION
- G.F. GARAGE FLOOR
- B.F. BASEMENT FLOOR
- PA PASSED PERC LOCATION
- FI FAILED PERC LOCATION
- SEWAGE DISPOSAL AREA
- WELL BOX AREA
- PROPOSED TREE

### WELL LOCATION CERTIFICATION:

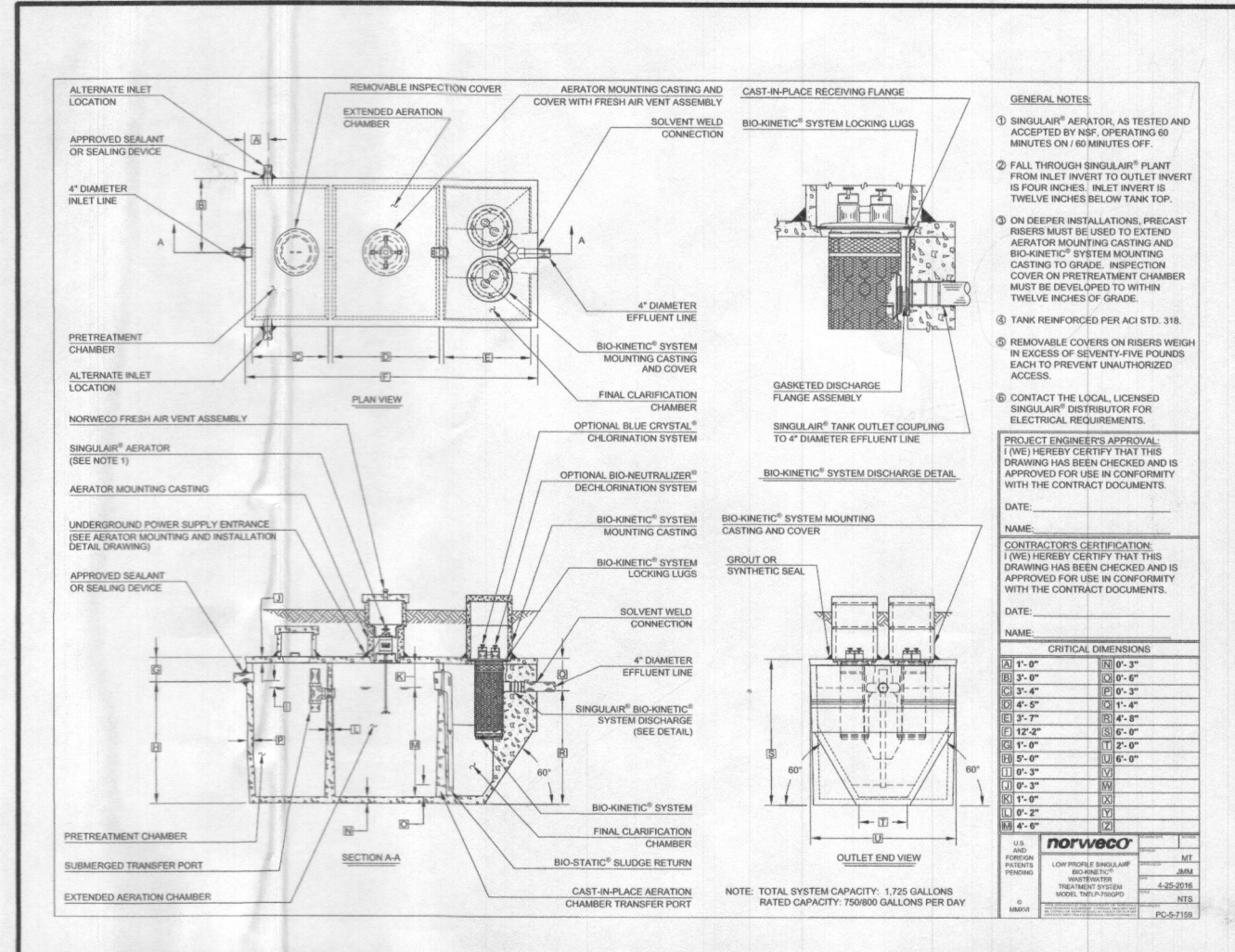
THE EXISTING WELL SHOWN FOR BUILDABLE PRESERVATION PARCEL D (TAG NO. HO-18-0186) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.



VICINITY MAP  
1" = 1000'

### GENERAL NOTES:

- THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA 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 AREAS 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 AREA. RECORDATION OF A MODIFIED SEWAGE AREA 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.
- BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
- ANY CHANGES 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 EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY BENCHMARK ENGINEERING, INC., IN FEBRUARY 2014.



SITE PLAN FOR BAT INSTALLATION  
BUILDABLE PRESERVATION PARCEL D  
(T.B.I. LOT 37)  
**KINGS FOREST**  
LIBER 20039, FOLIO 212  
PLAT NO. 25767  
ELECTION DISTRICT No. 2  
HOWARD COUNTY, MARYLAND  
ADDRESS: 10529 PUDDING LANE  
ELLCOTT CITY, MARYLAND 21042

## ESE CONSULTANTS

ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

ESE Consultants, Inc.  
6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046  
T: 410-872-9105

DATE: 11/12/2022	SCALE: 1"= 50'	FILE: BAT PARCEL D
CHK'D: M.J.B.	JOB NO: 4520	DRAWN: R.C.K.



B22003321

GENERAL PLAN NOTES

- A. ALL WOOD STUD PARTITIONS NOT DIMENSIONED ARE TO BE 3 1/2" FOR INTERIOR AND 5 1/2" FOR EXTERIOR WALLS UNLESS OTHERWISE NOTED.
- B. ALL INTERIOR DIMENSIONS ARE TO FACE OF STUDS.
- C. ALL EXTERIOR DIMENSIONS ARE TO FACE OF STUDS.
- D. ALL DIMENSIONS GOVERN OVER SCALE.
- E. ALL SMOKE DETECTORS ARE TO BE WIRED IN SUCH A MANNER THAT ACTIVATION OF ONE WILL ACTIVATE THEM ALL.
- F. ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS AND SOFFITS PROTECTED ON ENCLOSED SIDE WITH 1/2" GYPSUM BOARD.
- G. ALL WINDOWS SIZE ARE NOTED IN FEET + INCHES AS MEASURED FROM SASH TO SASH.
- H. REFER TO ELEVATIONS FOR WINDOW HEAD HEIGHTS.
- I. ALL DOORS ARE TO BE 8'-0" HIGH UNLESS OTHERWISE NOTED.
- J. WASHER ALWAYS TO BE ON LEFT SIDE OF DRYER.
- K. DISHWASHER ALWAYS TO BE ON RIGHT SIDE OF SINK.

Health Dept

10529 Pudding Lane

LOT 37

Kings forest

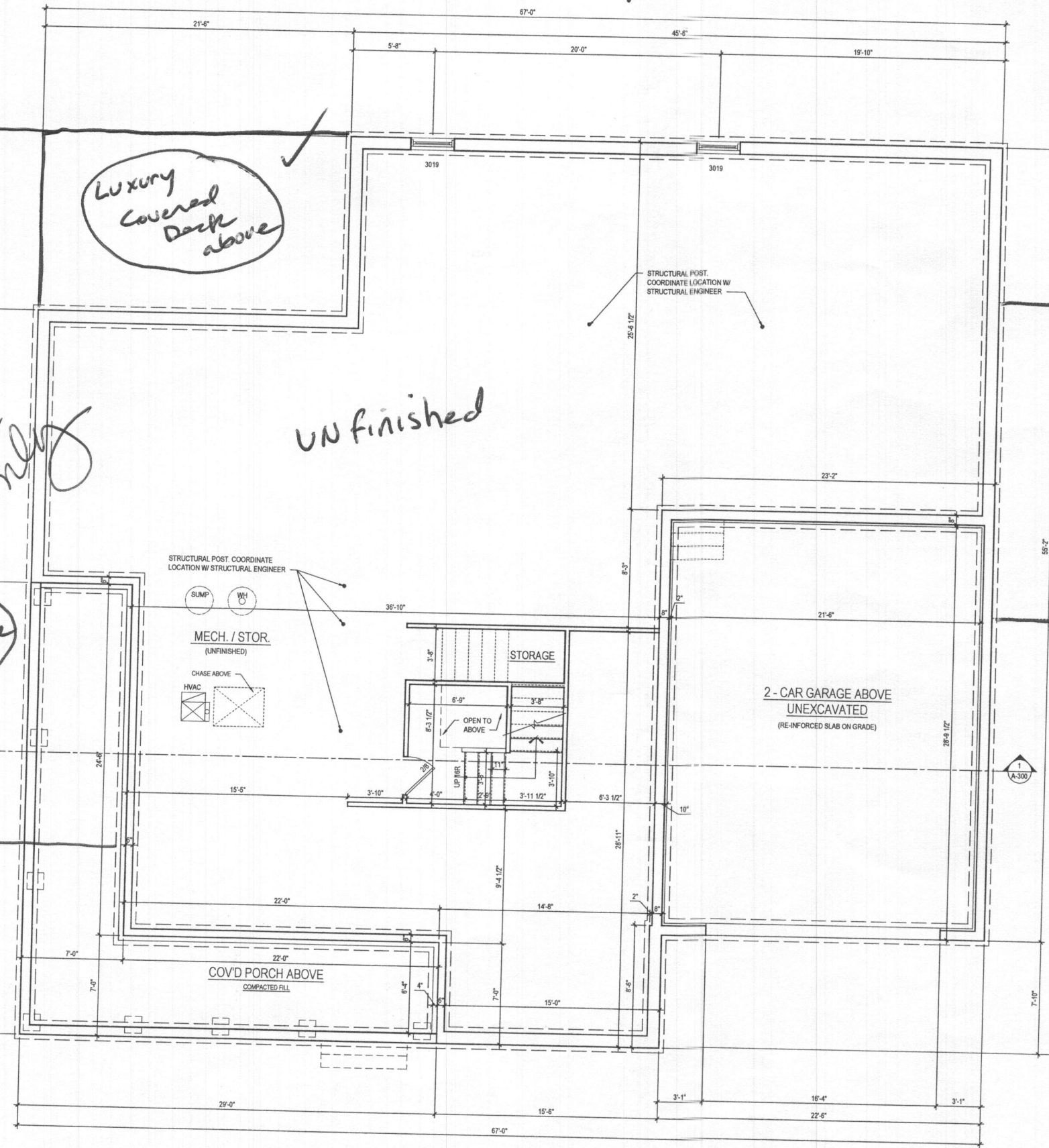
left only

UN finished

Grand multi-gen suite above

Luxury Covered Deck above

OPT. 263102 ONE CAR GARAGE  
OPT. 63019 TWO CAR GARAGE



1 BASEMENT PLAN  
A-100 SCALE: 1/4"=1'-0"

@ ELEV. 1 - CRAFTSMAN *shown*

See additional pages for "Modern farmhouse" ELEV.

ARCHITECT:



lessard  
DESIGN

8521 Leesburg Pike  
Suite 700 | Vienna, VA 22182  
P: 571.830.1800 | F: 571.830.1801  
www.lessarddesign.com

SEAL & SIGNATURE:

OWNER:

TOLL BROTHERS

19775 BELMONT EXECUTIVE PLAZA  
SUITE 250  
ASHBURN, VA 20147  
P: 571.291.8068  
F: 703.327.1736  
CONTACT: CHRISTINA LEMLEY  
CLEMLEY@tollbrothers.com

KALORAMA

FLOOR PLANS

PROJECT NAME:

SHEET TITLE:

ISSUE / REVISION		
NO.	DESCRIPTION	DATE
1	DESIGN DEVELOPMENT	03.23.20
2	BID SET	09.30.20
3	WILLOW CREEK PERMIT SET	12.22.20
4	LENAH MILL PERMIT SET	12.22.20

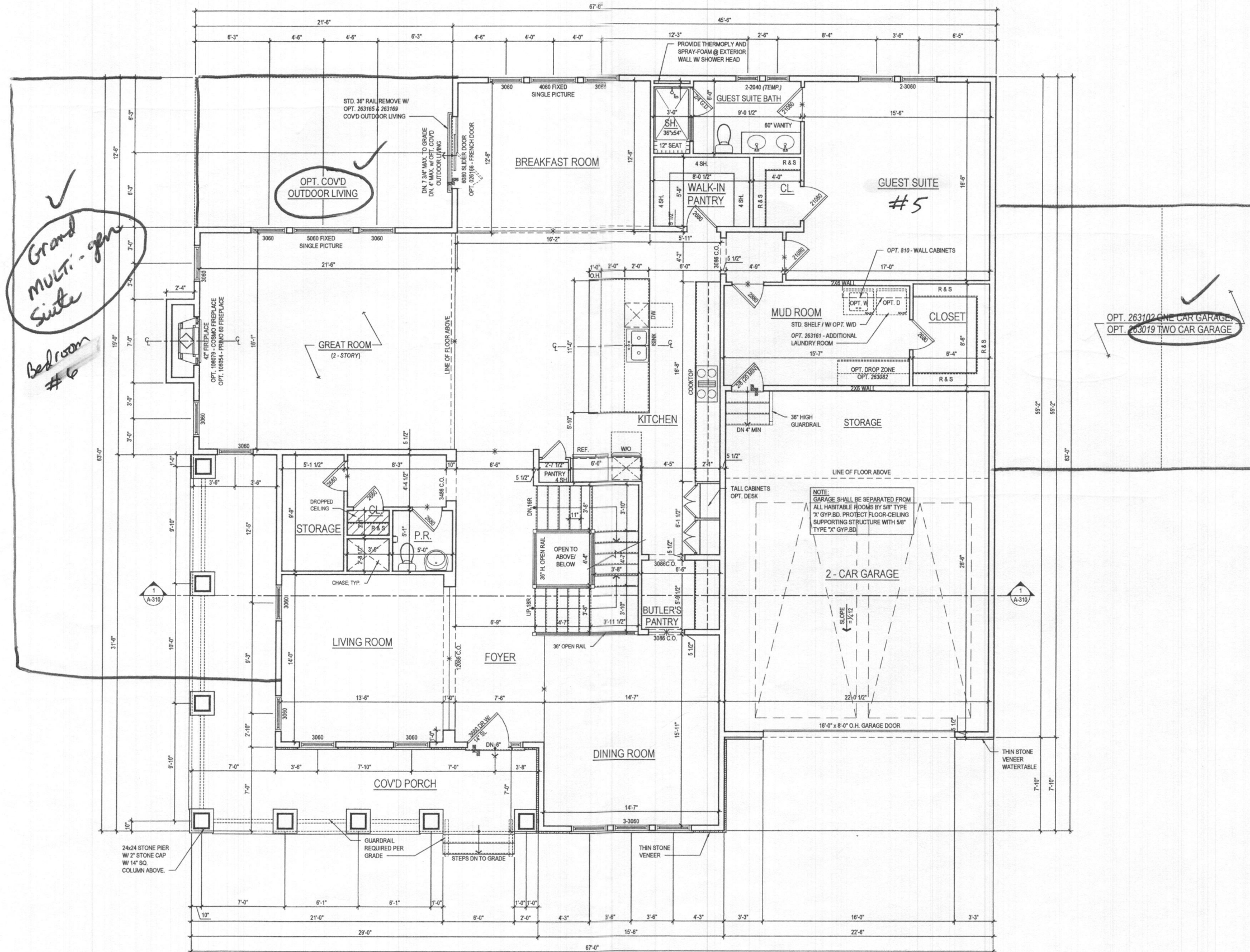
PROJECT No: TOL-019-  
DRAWN BY: AC & AN  
CHECKED BY: RN & AP  
PLOT DATE: Dec. 17, 2020  
FILE NAME: TOL019-A100.dwg

A-100



# GENERAL PLAN NOTES

- ALL WOOD STUD PARTITIONS NOT DIMENSIONED ARE TO BE 3 1/2" FOR INTERIOR AND 5 1/2" FOR EXTERIOR WALLS UNLESS OTHERWISE NOTED.
- ALL INTERIOR DIMENSIONS ARE TO FACE OF STUDS.
- ALL EXTERIOR DIMENSIONS ARE TO FACE OF STUDS.
- ALL DIMENSIONS GOVERN OVER SCALE.
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- ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS AND SOFFITS PROTECTED ON ENCLOSED SIDE WITH 1/2" GYP/PM BOARD.
- ALL WINDOWS SIZE ARE NOTED IN FEET + INCHES AS MEASURED FROM SASH TO SASH.
- REFER TO ELEVATIONS FOR WINDOW HEAD HEIGHTS.
- ALL DOORS ARE TO BE 6'-8" HIGH UNLESS OTHERWISE NOTED.
- WASHER ALWAYS TO BE ON LEFT SIDE OF DRYER.
- DISHWASHER ALWAYS TO BE ON RIGHT SIDE OF SINK.

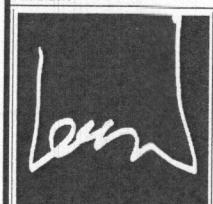


1 FIRST FLOOR PLAN  
A-110 SCALE: 1/4"=1'-0"  
TOL019C\_A110.DWG

@ ELEV. 1 - CRAFTSMAN shown  
2,786.3 SQ. FT.

See additional pages for "Modern Farmhouse" elev

ARCHITECT:



lessard  
DESIGN

8521 Leesburg Pike  
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4	LENAH MILL PERMIT SET	12.22.20

PROJECT NO: TOL019C  
DRAWN BY: AC & AN  
CHECKED BY: RN & AP  
PLOT DATE: Dec. 16, 2020  
FILE NAME: TOL019C\_A110.dwg

A-110