



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

Facebook: www.facebook.com/hocohealth

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

RECEIPT DATE: 2/12/19 **ONSITE SEWAGE DISPOSAL SYSTEM** P 564754

APPROVAL DATE: 6/21/19 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 5524 Jacks Landing Way

SUBDIVISION: Jacks Landing LOT: 1 TAX ID: 05-599482

CONTRACTOR: Farm & Home Excavating EMAIL: farmhomeex@verizon.net

CONTRACTOR ADDRESS: 901 Driver Road, Marriotts ville, MD PHONE: 410-442-2139

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: MDE MANUFACTURER:

PROPERTY OWNER: Venkata Velaga EMAIL: _____

OWNER ADDRESS: 2614 Shady Side Lane, Ellicott City, MD 21043 PHONE: 301-832-4526

BAT UNIT MODEL: NORWECO TNTLP 500 PUMP SIZE: _____ PUMP TANK CAPACITY: _____

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

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

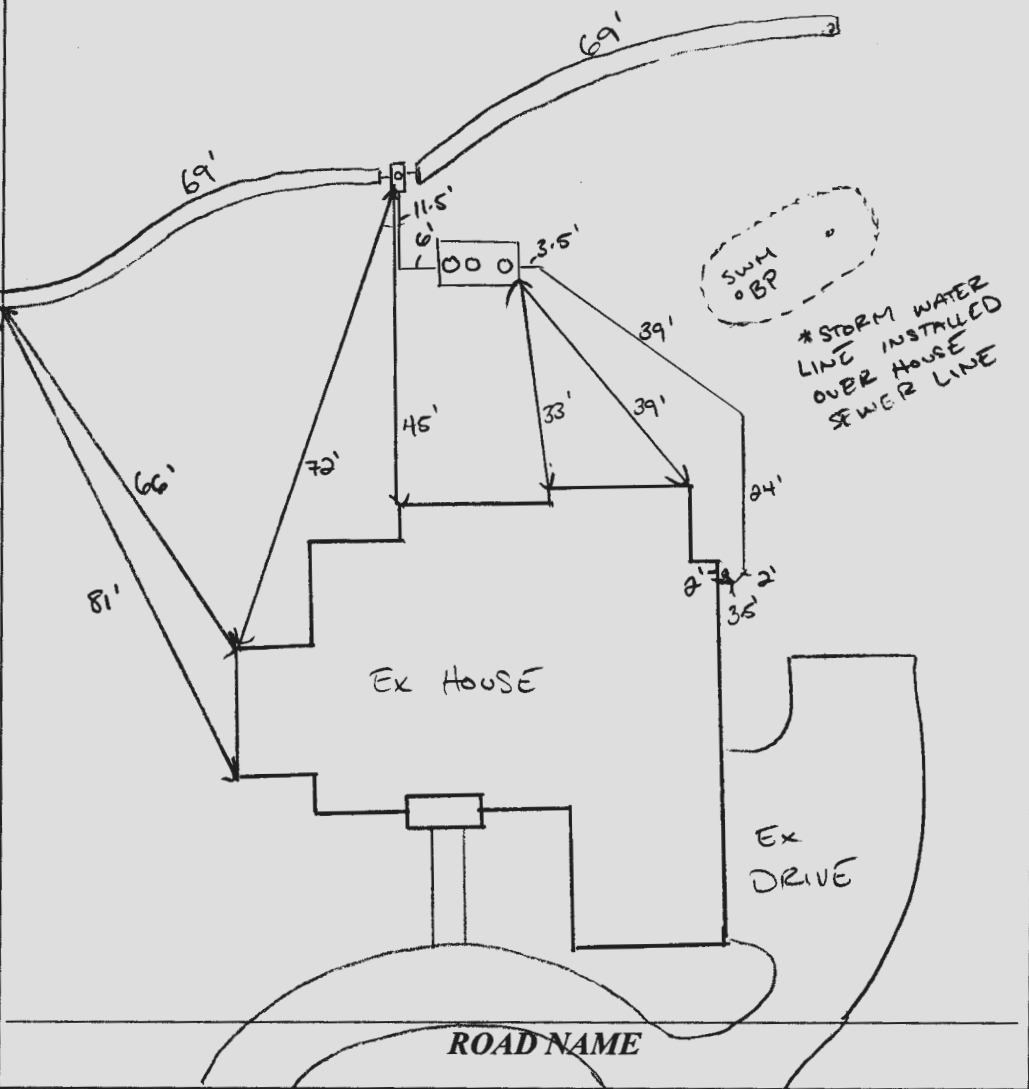
TRENCHES:	LINEAR FEET REQUIRED: <u>138</u>	INLET DEPTH: <u>3.5</u>
	TRENCH WIDTH: <u>2</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: Hank Oswald ISSUE DATE: 3/20/2019 EXPIRATION DATE: 2/12/2020

- 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
- ELECTRICAL PERMIT ISSUED E 19000712
- 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	INLET	BOTTOM
2'	3.5'	8'
NUMBER OF TRENCHES <u>2</u>		
TOTAL LENGTH <u>138 ft</u>		
ABSORPTION AREA <u>276 sq</u>		
DISTRIBUTION BOX LEVEL <u>YES</u>		
DISTRIBUTION BOX BAFFLE <u>YES</u>		
DISTRIBUTION BOX PORT <u>YES</u>		

SEPTIC TANK DATA

SEPTIC TANK I LEVEL	<u>YES</u>
MANUFACTURER	<u>BACK RIVER</u>
CAPACITY	<u>TNTP 500</u> GAL
SEAM LOC	<u>TOP</u>
TANK LID DEPTH	<u>< 3'</u>
BAFFLES	<u>BAT</u>
BAFFLE FILTER	<u>BAT</u>
MANHOLE LOC	<u>FRONT/MID/BACK</u>
6" PORT LOC	<u>BAT</u>
WATERTIGHT TEST	<u>QC (MANUFACTURE)</u>
SLOTTED	<u>BAT</u>
DATE ON LID	<u>OK</u>
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	_____

BAT - NORWECO

PRE-CONSTRUCTION:

5/14/2019 R CONTRACTOR REQUESTED MOVING TANK. BUILDER OK - SEWER HOUSE OUT WAS MOVED TO OPPOSITE SIDE OF HOUSE. ST AND SWM MUST HAVE 25' SEP. TO APPROVE. (P)

INSTALLATION:

5/14/2019 SHC AND SEWERLINE INSTALLED TO TANK. (P)
 5/15 or 5/16 D Box SET AND TRENCHES DUB. (P) 5/17/2019 TRENCHES COMPLETE (P) 5/21/2019 D Box LEVELED w/ SPEED LEVELS.
 REINSP. P/A (P) 6/21/19 BAT stand-up n.c'd.

FINAL INSPECTOR

K. Wolf

DATE OF APPROVAL

6/21/19

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 27⁽²⁸⁾ day of JUNE 2019, among Venkata G Velaga & Lalitha Valluri, 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 5524 Jacks Landing way, in the 05 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 # 0034, Block # , Parcel # 0414, Deed Reference # 18312/0012 and Tax Account # 599482 ("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.

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.

Bert Myer 6/28/2019
Howard County Health Department

[Signature] 06/27/2019
Owner #1 Signature Date

Venkata G Velaga
Owner #1 Print Name

Buyer #1 Signature Date

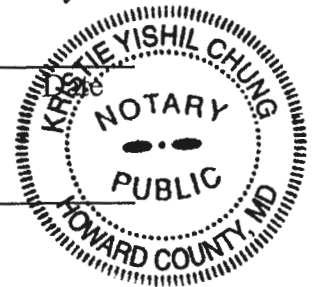
Buyer #1 Print Name

V. Lalitha 06/27/2019
Owner #2 Signature Date

Lalitha Valluri
Owner #2 Print Name

Buyer #2 Signature

Buyer #2 Print Name



4-16-22



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

NORWECO CERTIFICATION

PROPERTY OWNER: VENKATA VELAGA	INSTALLATION COMPANY: FARM & HOME
ADDRESS: 5524 JACKS LANDING WAY	CERTIFIED INSTALLER: BILL INGRAM
CITY, ZIPCODE & COUNTY: CLARKSVILLE, 21029, HOWARD	PERMIT#
SIZE OF SYSTEM INSTALLED:	DATE INSTALLED: 05-15-19
600 GPD CONCRETE	START-UP DATE: 06-05-19
NUMBER OF BEDROOMS:	DATE OF FINAL INSPECTION:
TYPE OF INSTALLATION: NEW CONSTRUCTION	DATE OF ELECTRICAL INSPECTION:
ELECTRICAL WIRING PER ELECTRICAL INSTRUCTIONS: YES	TANK LEVEL: YES
HT. OF CONTROL PANEL ABOVE FINAL GRADE: 45"	BURIAL DEPTH OF TANK: 24"
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: NO
CONDUIT(S) ENTERING AERATION RISER MADE WITH A WATERTIGHT CONNECTION: YES	
IS THE INSIDE OF THE CONDUIT ENTERING THE CONTROL PANEL(S) AND AERATION RISER(S) SEALED WITH DUCT SEAL: YES	

ON 2ND 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 5TH HOUSE OF THE LEFT.

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

Matthew Geckle

June 05, 2019

Signature of BRP Representative

Vice-President

Date

5528 Jack's Landing Way

Clerk of the Circuit Court for
Howard County
Land Records/Licensing

6095 Marshalee Drive
Suite 120
Elkridge, MD 21075
410-313-5850

LR - Agreement Recording Fee
1x 20.00 20.00

Name: Patibandla
Ref: 15

LR - Agreement Surcharge
1x 40.00 40.00

SubTotal: 60.00
Total: 60.00

REV-Check-BOA 60.00
Number : 1515

06/28/2019 11:05 CC17-DH
#12351266/396/109

~ Thank you for visiting us today ~

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

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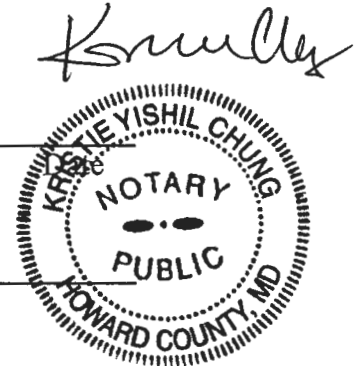
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Owner #2 Signature Date

Lalitha Valluri
Owner #2 Print Name

Buyer #2 Signature

Buyer #2 Print Name



4-16-22



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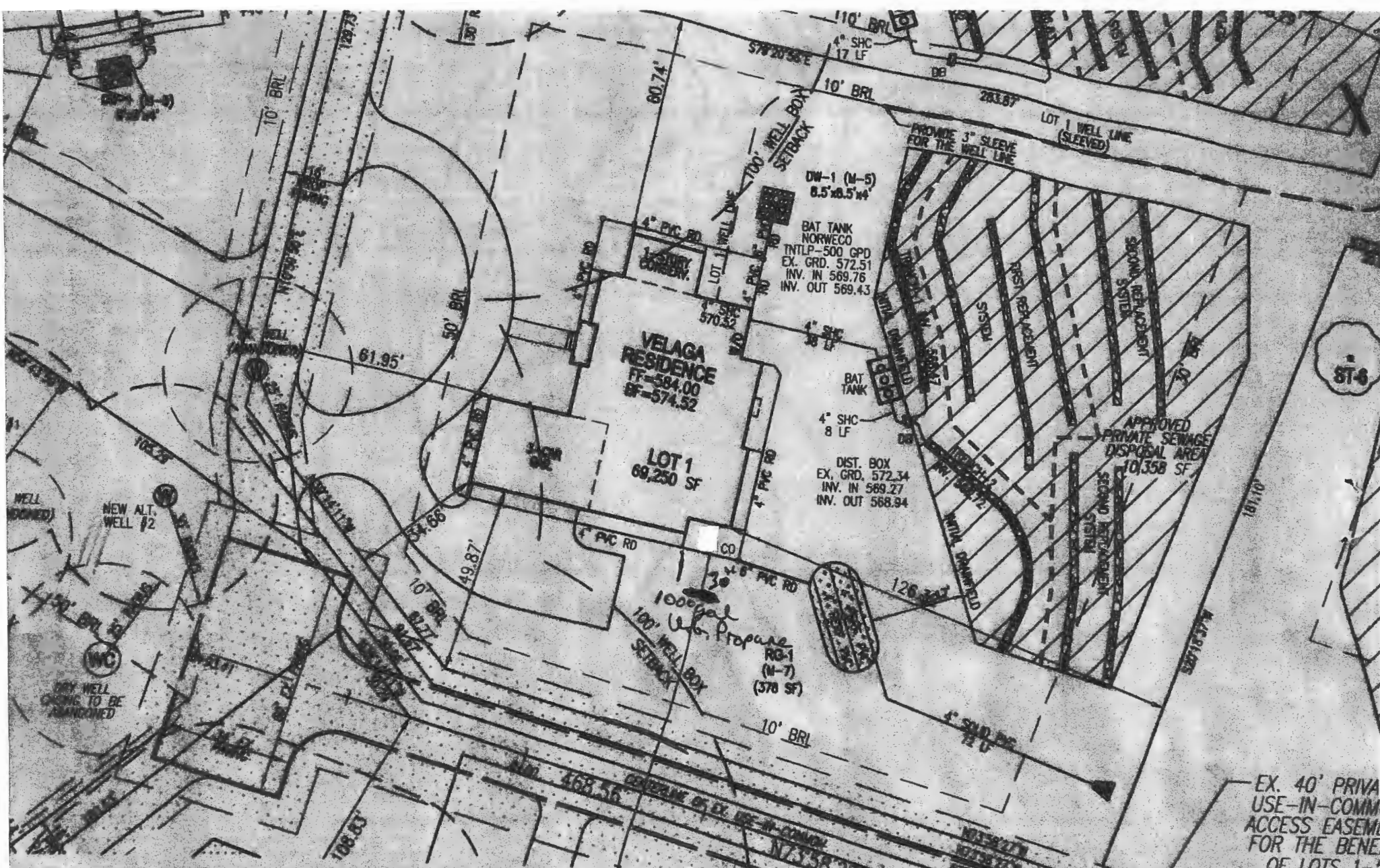
Matthew Geckle

June 05, 2019

Signature of BRP Representative

Vice-President

Date



PLOT PLAN
JACK'S LANDING - LOT 1
 5524 JACKS LANDING WAY
 CLARKSVILLE, MD 21029
 1.59 AC.
 (PLAT: 23952-23955)

1000gal UG
 Propane tank

LAYOUT PLAN
 SCALE: 1"=30'

Well 180ft
 Septic 140ft
 Rear 250ft
 Front 230ft
 Right 25ft
 House 30ft

OWN
 APR
 2018
 11-31
 05

10112 / P. 120
 24 APR 24 09:03

REF: GP 10 036

PARCEL: 414
 ZONE: RR-DED

OWNER
 VENKATA G. VELAGA
 LALITHA WALLURI
 2614 SHADYSIDE LANE
 ELLICOTT CITY, MD 21043

BUILDER
 CARUSO HOMES
 C/O GARY EVANS
 2120 BILDWIN AVE., #200
 CROFTON, MD 21114

ROBER ENGINEERS

VOGEL ENGINEERING + TIMMONS GROUP

8407 Main Street Ellicott City, MD 21043
P 410.461.7666 F 410.461.8961 www.timmons.com

January 02, 2019

Mr. Hank Oswald
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, Maryland 21045

Re: **BAT Plan**
5524 Jack's Landing Way

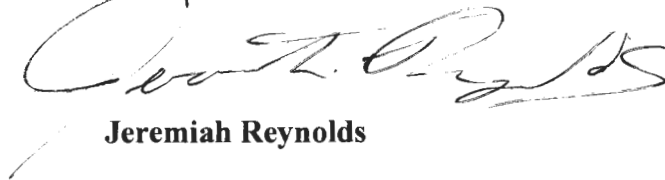
Dear Mr. Oswald,

This letter is in response to your comments dated December 03, 2018.

1. The title of the plan has been revised to read "Site Plan for BAT Installation".
2. The plan calls for the well line for lot 1 to be sleeved along the area that you highlighted on the markup.
3. There is 25.17' of separation between the sewage disposal area and the footprint of the rain garden. I have added a dimension to the plan for clarity.
4. Tank depth is as shallow as I can make it, while servicing the entire basement by gravity.
5. The trench depth is as shallow as I can make it, while servicing the entire basement by gravity.

Should you have any questions regarding this matter, please do not hesitate to contact this office.

Sincerely,
VOGEL ENGINEERING + TIMMONS GROUP



Jeremiah Reynolds

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

MEMORANDUM

TO: Vogel Engineering

**FROM: Hank Oswald, L.E.H.S.
Well & Septic Program**

**RE: BAT Plan
5524 Jacks Landing Way**

Date: December 3, 2018

The following comments refer to the BAT Plan for 5524 Jacks Landing Way:

- 1.) Change the title to "Site Plan for BAT Installation".
- 2.) Show sleeve on well line starting from Lot 2 SDA through Lot 1 SDA (See attachment for details).
- 3.) Ensure 25 foot separation between SDA and bio-retention pond.
- 4.) Make tank depth as shallow as possible while maintaining at least 2% fall in the pipe from the house.
- 5.) Make trench depths as shallow as possible up to a minimum of 18 inch depth while maintaining minimum 2% fall from tank to distribution box.

Oswald, Hank

From: Oswald, Hank
Sent: Monday, December 03, 2018 9:01 AM
To: Rob Vogel (rvogel@vogeleng.com)
Subject: BAT Plan_5524 Jacks Landing Way_Lot 1
Attachments: BAT_Memo_Jacks Landing.pdf; lot1.pdf

Hi Rob:

Attached, please find comments pertaining to the BAT Plan for Jacks Landing Lot 1.

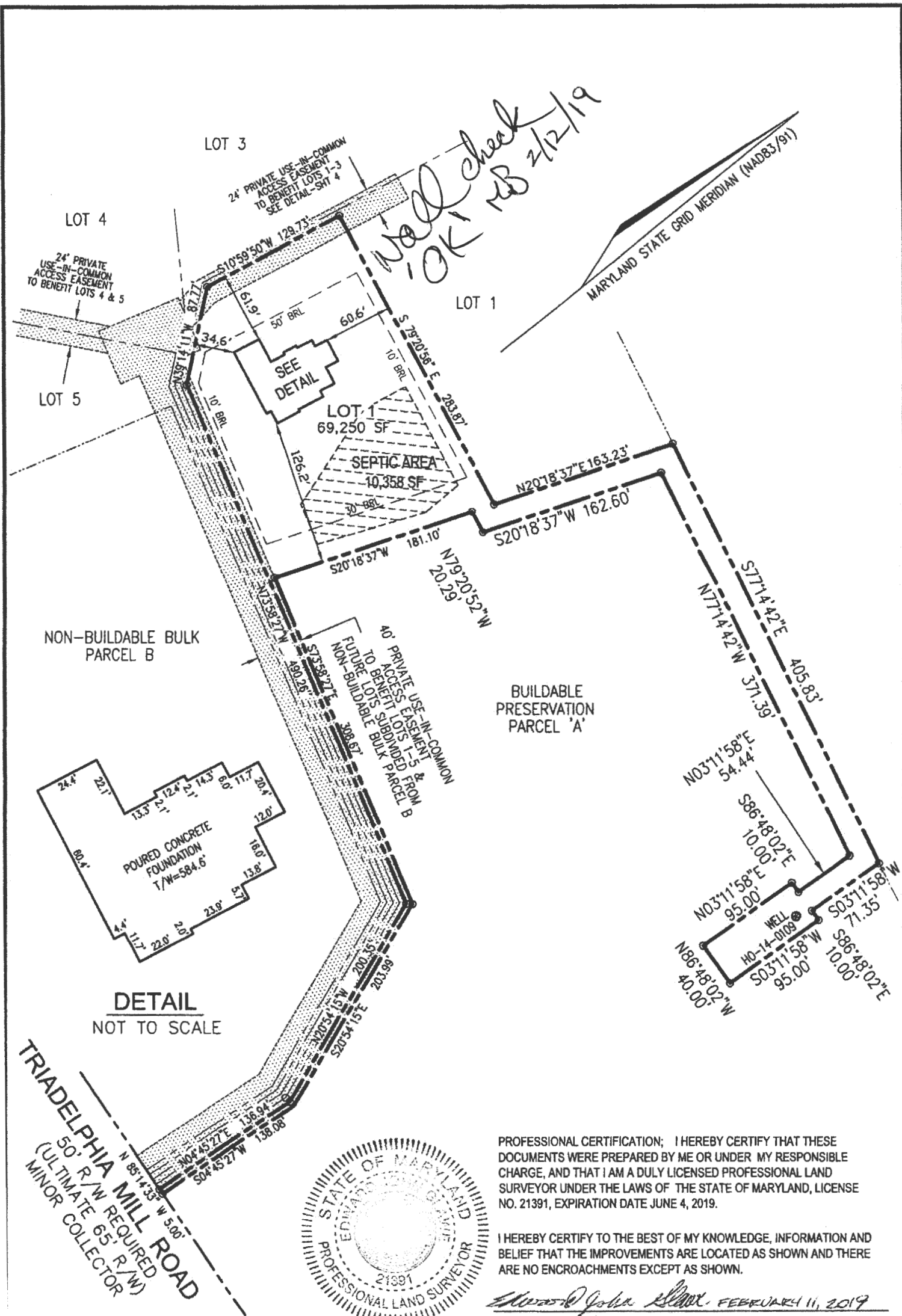
Thanks,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

CONFIDENTIALITY NOTICE

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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. 21391, EXPIRATION DATE JUNE 4, 2019.

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN AND THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN.

Edward J. Glawe FEBRUARY 11, 2019
 EDWARD J. GLAWE, PROFESSIONAL LAND SURVEYOR #21391 DATE

THIS WALL CHECK DRAWING CONTAINS A HORIZONTAL TOLERANCE IN ACCURACY OF 0.1' AND A VERTICAL TOLERANCE IN ACCURACY OF 0.2'

SCALE 1" = 100'	DATE 02/07/2019	VOGEL ENGINEERING + TIMMONS GROUP ENGINEERS - SURVEYORS - PLANNERS 3300 NORTH RIDGE ROAD SUITE 110 ELLICOTT CITY, MARYLAND 21043 TEL: 410-461-7666 FAX: 410-461-8961	WALL CHECK DRAWING 5524 JACK'S LANDING WAY LOT 1 JACK'S LANDING PLAT NUMBER 23953 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DRAWN BY B.D.A.	CHECKED BY E.J.G.		
PLAT NUMBER 23952-23955	JOB NUMBER 13-31		

GENERAL NOTES:

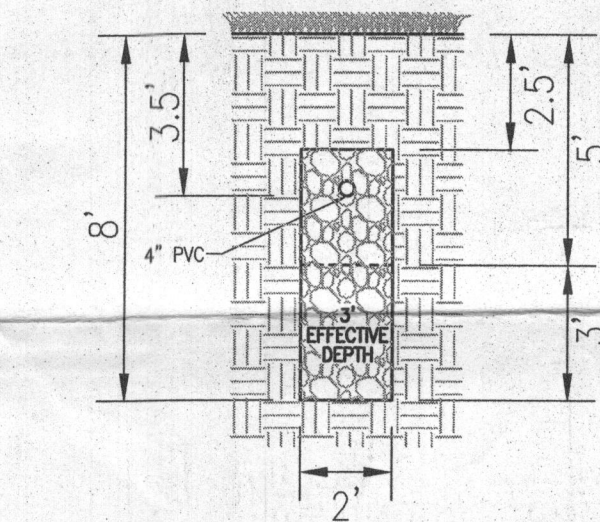
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS BASED ON CURRENT HOWARD COUNTY GIS DATA, AND HAS BEEN FIELD VERIFIED TO BE ACCURATE.
- EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWNDRAPE OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN USING ALL REASONABLE EFFORTS.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- 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.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS THREE FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- NO BLOWER IS REQUIRED. THE HOOT WASTEWATER TREATMENT SYSTEM HAS AN ACRATOR MOUNTED IN THE TANK.
- 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 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.

SYSTEM CALCULATIONS:

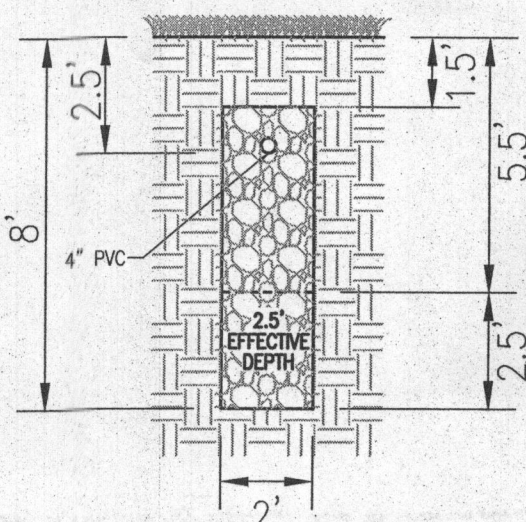
- INITIAL SYSTEM:**
 5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 2 (TRENCH WIDTH) x .44 (SIDEWALL REDUCTION) = 138 LINEAR FEET
 138 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.
 (2 TRENCHES OF 69 FEET IN LENGTH)
- FIRST REPLACEMENT SYSTEM:**
 5 BEDROOMS AT 750gpd / 0.8 ABSORPTION RATE = 938 SQ. FT.
 938 SQ. FT. / 2 (TRENCH WIDTH) x .44 (SIDEWALL REDUCTION) = 206 LINEAR FEET
 207 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.
 (3 TRENCHES OF 69 FEET IN LENGTH)
- SECOND REPLACEMENT SYSTEM:**
 5 BEDROOMS AT 750gpd / 0.8 ABSORPTION RATE = 938 SQ. FT.
 938 SQ. FT. / 2 (TRENCH WIDTH) x .50 (SIDEWALL REDUCTION) = 235 LINEAR FEET
 236 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE SECOND REPLACEMENT SYSTEM.
 (4 TRENCHES OF 59 FEET IN LENGTH)

INITIAL SYSTEM TRENCH INFO:

TRENCH	TRENCH LENGTH	TRENCH WIDTH	TRENCH DEPTH	EXISTING GROUND
1	69	568.47	583.97	571.97
2	69	568.72	564.22	572.22

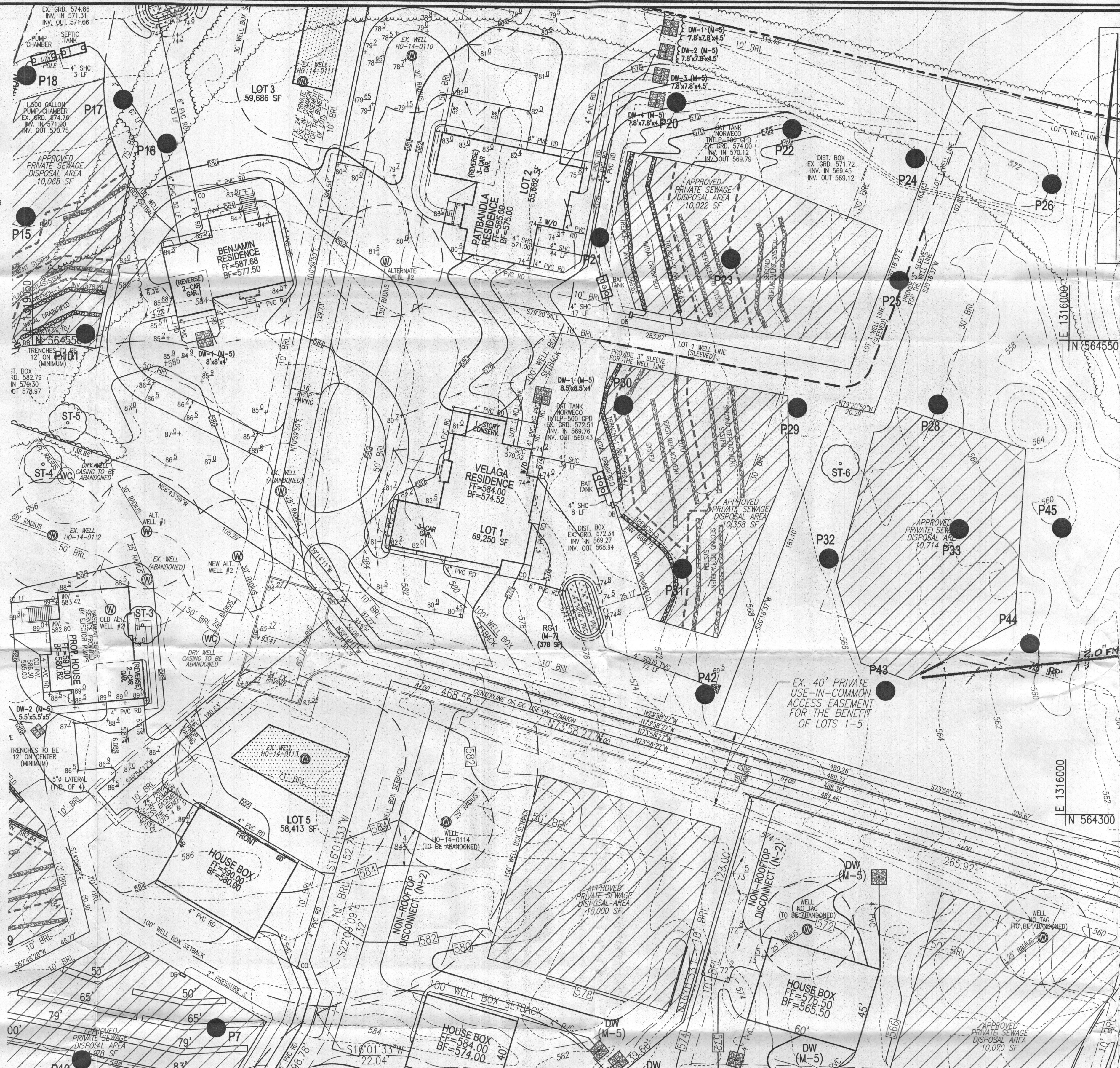


INITIAL & 1ST REPLACEMENT SYSTEM TRENCH DETAIL
NOT TO SCALE



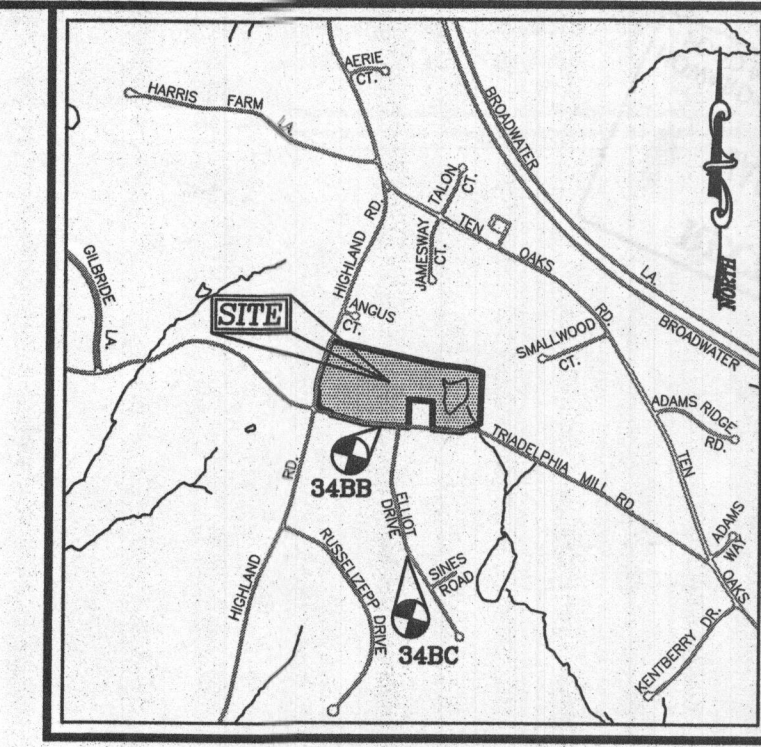
2ND REPLACEMENT SYSTEM TRENCH DETAIL
NOT TO SCALE

THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS 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 SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.



PLAN VIEW
SCALE: 1" = 30'

MATCHLINE - SEE SHEET 2



VICINITY MAP
SCALE: 1" = 2,000'
ADC MAP COORDINATE: PAGE: 24 GRID: EB

BENCHMARKS

HOWARD COUNTY BENCHMARK 348B (CONC. MON.)
 N 563,899.232 E 1319560.973 ELEV. 559.29
 SOUTH SIDE TRIADAPHA MILL ROAD, APPROX. 13' EAST OF CENTERLINE OF DRIVEWAY FOR HOUSE # 13295.
 HOWARD COUNTY BENCHMARK 348C (CONC. MON.)
 N 562,546.600 E 1319,851.519 ELEV. 529.572
 SOUTH SIDE OF ELLIOTT DRIVE, EAST OF CENTERLINE FOR THE DRIVEWAY FOR HOUSE NUMBER 13318.

LEGEND:

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY LINE
- PROPOSED RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF PAVING
- EXISTING TREE LINE
- EXISTING WOOD FENCE
- EXISTING METAL FENCE
- EXISTING UTILITY POLE
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- SOILS
- EXISTING USE-IN-COMMON ACCESS EASEMENT
- EXISTING WELL LOCATION
- APPROVED WELL LOCATION (FIELD LOCATED)
- PROPOSED ALTERNATE WELL LOCATION
- EXISTING DRY WELL CASING (TO BE ABANDONED)
- EXISTING PRIVATE SDA
- APPROVED PRIVATE SDA
- APPROVED WELL BOX
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED SPOT ELEVATION
- PASSED PERC. TEST
- FAILED PERC. TEST
- EXISTING SPECIMEN TREE

Approved Septic System Plan
 Howard County Health Department
 Name: *Jack Oswald* / 1/8/19
 Signature: _____ Date: _____

OWNER
 VENKATA G. VELAGA
 LALITHA VALLURI
 2614 SHADYSIDE LANE
 ELLICOTT CITY, MD 21043
 (301) 832-4526

BUILDER
 CARUSO HOMES
 C/O GARY EVANS
 2120 BALDWIN AVE., #200
 CROFTON, MD 21114
 (301) 832-4526

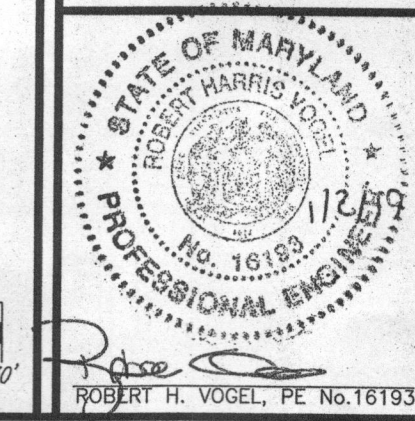
SITE PLAN FOR BAT INSTALLATION

JACK'S LANDING - LOT 1
 5524 JACKS LANDING WAY
 CLARKSVILLE, MD 21029
 1.59 AC.
 (PLAT: 23952-23955)

L 16312 / F. 120
 TAX MAP: 34 GRID: 03
 5TH ELECTION DISTRICT

PARCEL: 414
 ZONE: RR-DEO
 HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 3300 N. RIDGE ROAD, SUITE 110 TEL: 410.461.7666
 ELLICOTT CITY, MD 21043 FAX: 410.461.8961



PROFESSIONAL CERTIFICATE

DESIGN BY: _____ RHV
 DRAWN BY: _____ JMR
 CHECKED BY: _____ RHV
 DATE: JANUARY 2019
 SCALE: AS SHOWN
 W.O. NO.: 13-31

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 112159, EXPIRATION DATE 08-27-2020.

1 SHEET OF 2

