

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: 10-13-22 **ONSITE SEWAGE DISPOSAL SYSTEM** P 572652
 APPROVAL DATE: 11/3/22 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 2359 Duvall Road
 SUBDIVISION: Winkler Property LOT: _____ TAX ID: _____
 CONTRACTOR: Marc D. Heath EMAIL: _____
 CONTRACTOR ADDRESS: 2551 Florence Rd, Woodbine, MD 21797 PHONE: 301-580-5977
 PROPERTY OWNER: Frederick & Agnes Winkler EMAIL: _____
 OWNER ADDRESS: 2355 Duvall Road PHONE: 443-844-2686
 SEPTIC TANK SIZE (GALLONS): 2,000 TANK MANUFACTURER: _____
 PUMP MODEL: _____ PUMP SIZE _____ PUMP TANK CAPACITY: _____

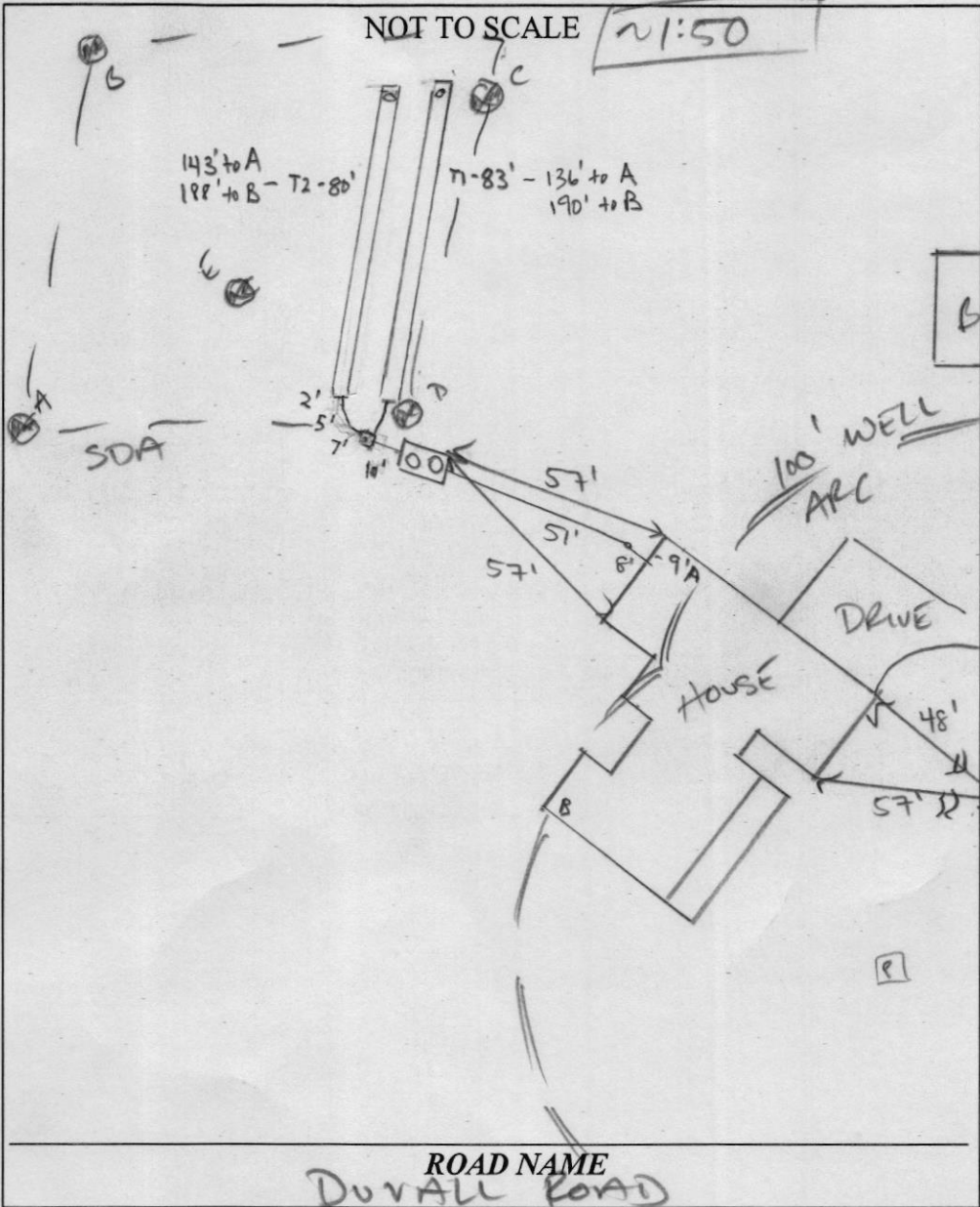
DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>157.5</u>	INLET DEPTH: <u>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>4'</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: Hank Oswald ISSUE DATE: 10-13-22 EXPIRATION DATE: 10-13-23

- 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 TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRAIDENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
 ELECTRICAL PERMIT ISSUED E N/A
- 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.**



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	2.5'	8'
NUMBER OF TRENCHES	2	
TOTAL LENGTH	163'	
ABSORPTION AREA	48949ft ² + Sidewall	
DISTRIBUTION BOX LEVEL	yes	
DISTRIBUTION BOX BAFFLE	yes	
DISTRIBUTION BOX PORT	yes	

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	1.5'
BAFFLES	front 6" / back 4"
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	09/14/2022
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:
 10/17/2022 LAD OUT 2x 79' TRS. TRS STAKED - NOT SDA. CONTRACTOR/BUILDER ASSUMES LIABILITY FOR ALL ERROR

INSTALLATION: 11/01/2022 INSTALLED SHC AND SL. TANK SPT PARTIAL LOWER TRENCH INSTALLED 11/2/22 - site insp. contractor on site, observed ST baffles, both trenches completed (T1-83' T2-80'), dbox & lines from ST to trenches not completed yet, stone for trenches only partially washed, 12' ETE on trenches, geotextile fabric in place, soils consistent w/ perc data for holes B & C, contractor will be using 57 stone to bed the lines from the ST to dbox and dbox to trenches. ok to continue, ok to backfill sewer line, tank & trenches, reinspect for dbox & lines to trenches, trench obs pipes in place 11/3/22 - dbox & lines to trenches completed, dbox levelers ok, continue w/ backfill.

FINAL INSPECTOR R. Raappert DATE OF APPROVAL 11/3/22

Clerk of the ~~Circuit~~ Court for
Howard County

9250 Judicial Way,
Ellicott City, MD 21043
410-313-2111

=====
LR - Agreement Recording Fee
1x 20.00 20.00

Name: dungg
Ref: 1

=====
LR - Agreement Surcharge
1x 40.00 40.00

=====
SubTotal: 60.00
Total: 60.00

=====
REV-Check-WFB 60.00
Number : 1133

03/06/2023 09:01 CC13-YW
#17035512/494/4

~ Thank you for visiting us today ~

2359 Duvall Road.
Woodbine, MD

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

**AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN
ON-SITE TREATMENT SYSTEM**

This agreement is entered into by and between the Howard County Health Department ("the Health Department") and Thomas Durigg / Theresa Aaron ("the Owner").

WHEREAS, the Owner owns a tract of land at street address 2359 Duvall Rd.
Woodbine, MD 21797 and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 13, Block # , Parcel # 0297, Deed Reference # and Tax Account # 04-335201 ("the Property").

WHEREAS, the Property lacks an available public drinking water source and is required to have an individual well as the source of drinking water for the residence of the property.

WHEREAS, the Owner has installed a residential drinking well under well permit 40-20-0124 that has been tested by the Health Department (or a private laboratory certified to perform testing) for Nitrate-nitrogen. The results of the tests have shown that the Nitrate level meets or exceeds the Maximum Contaminant Level (MCL) of 10 milligrams per liter.

WHEREAS, The Maryland Department of the Environment (MDE) has promulgated rules and regulations under which a Certificate of Potability may be issued and has delegated the authority to issue such Certificate to the Health Department.

WHEREAS, MDE regulations permit the Health Department to issue as a special condition, a permanent deviation to the Certificate of Potability for individual wells where treatment has been installed to meet the MCL for Nitrate.

WHEREAS, MDE has determined that Nitrate can be effectively removed from the drinking water by the use of treatment devices (e.g. reverse osmosis).

WHEREAS, the Owner is requesting that the Health Department issue a Certificate of Potability contingent upon installation and maintenance of a water treatment device to reduce Nitrate.


WHEREAS, neither the Owner nor the Health Department has knowledge of an alternative safe source of water for the Property.


NOW THEREFORE, the parties have agreed to the following terms and conditions:

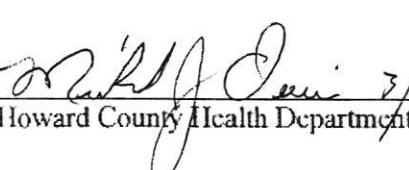
1. The Owner will record this Agreement among the Land Records of Howard County, Maryland and provide confirmation to the Health Dept.
2. The Owner agrees to install and maintain a water treatment device, which effectively reduces the Nitrate below the MCL. The Health Department shall verify that the treatment device is operating effectively and the Owner agrees to allow access to the Health Department to collect a follow-up sample(s).

3. The Health Department shall issue a Certificate of Potability for the well once follow-up sampling shows acceptable Nitrate levels.
4. The Owner agrees that there shall be no liability on part of the Health Department for any immediate or long term impacts to health or property, under any circumstance or including, but not limited to, treatment device failure, improper maintenance or installation, or defect. The Health Department does not warranty or guarantee that the device will adequately or properly function and the Owner agrees to implement and pay for any necessary changes or corrections.
5. The Owner acknowledges and agrees that neither the Health Department nor any of its agents or employees, either officially or individually, underwrites the operation of any system or treatment device.
6. This Agreement shall not be construed to limit any authority of the Health Department to protect the public health, safety or enjoyment of property or to issue any other orders to take any other action, which is now or may hereafter be within its authority.
7. This agreement contains the entire agreement and understanding between the Health Department 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 their authorized representatives.
8. The Agreement shall run with the land and binds the Owner, his heirs, successors, and assigns. The owner agrees to provide a copy of this agreement to any purchaser or lessee of the property.
9. The laws of the State of Maryland govern the provisions of all transactions.

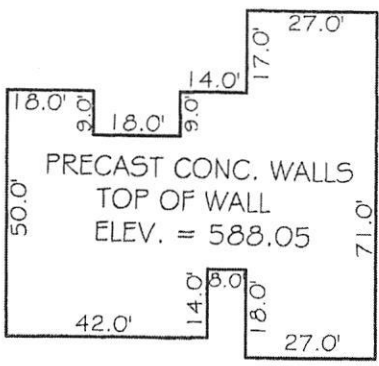
The parties have signed this Agreement on the dates set forth below.

	3/3/23		
Owner	Date	Buyer	Date

	3/3/23		
Owner	Date	Buyer	Date

	3/3/23		
Howard County Health Department	Date		

- NOTES:
 1. FOOTINGS AND FOUNDATION ARE IN PLACE AS SHOWN HEREON.
 2. TOP OF WALL ELEV. = 588.05
 3. BUILDING TIES ARE ±0.5' UNLESS OTHERWISE NOTED.

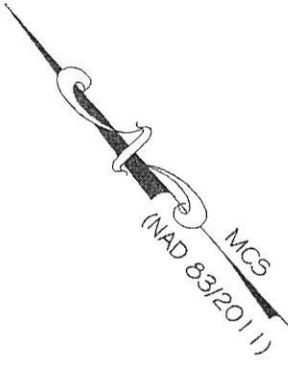
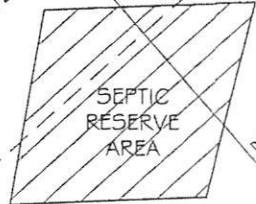


HOUSE DETAIL
 1" = 40'

EVELYN E. FERLEY
 JANE F. SIMS
 TRUSTEES
 L. 14639, F. 436

THOMAS C. DURIGG
 THERESA A. AARON
 L. 21313, F. 290
 182,207 SQ. FT. OR
 4.1829 AC. ±

WILLIAM M. MYERS, Jr.
 BARBARA J. MYERS
 L. 16220, F. 157



EX. WELL •
 HO73-1195
 FRANK D. LIGHT
 L. 1969, F. 189
 LOT 3B
 "DORSEY PROPERTY"
 PLAT No. 3552

FREDERICK W. WINKLER
 AGNES P. WINKLER
 THIRD PARCEL
 L. 9371, F. 263
 EX. WELL •
 (NO TAG)

WAYNE K. MYERS
 L. 9947, F. 659

Wall Check
 OK R/E
 10/13/2022

EX. WELL
 (NO TAG) •

DUVALL ROAD
 (60' RW)

WALL CHECK DRAWING
 LANDS CONVEYED TO
**THOMAS C. DURIGG &
 THERESA A. AARON**
 LIBER 21313 AT FOLIO 290
 2359 DUVALL ROAD
 ELECTION DISTRICT NO. 4
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 100' AUGUST, 2022

PROFESSIONAL CERTIFICATION:

I HEREBY CERTIFY THAT THIS DOCUMENT WAS 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. 21512, EXPIRATION DATE AUGUST 12, 2023 ACCORDANCE WITH COMAR 09.13.06.12.

Jeffery W. Elkins 8/8/2022
 For VanMar Associates, Inc. Date
 Jeffery W. Elkins, Prof. Land Surveyor



I CERTIFY THIS PLAT TO BE CORRECT; IT IS THE RESULT OF AN ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, AS REFERENCED HEREON.

REFERENCE	JOB NO.
L. 21313, F. 290	CI-6088



VANMAR ASSOCIATES, INC.
 Engineers Surveyors Planners
 310 South Main Street Mount Airy, Maryland 21771
 (301) 829-2890 (301) 831-5015 (410) 549-2751
 Fax (301) 831-5603 ©Copyright, Latest Date Shown

Oswald, Hank

From: Oswald, Hank
Sent: Monday, March 21, 2022 9:26 AM
To: ron@vanmar.com
Subject: OSDS Plan Review_2359 Duvall Road

Hi Ron:

Good morning. The OSDS Plan for 2359 Duvall Road has been reviewed with the following comments:

- 1.) A 1500 gallon septic tank is undersized for 6 bedrooms. Replace septic tank with a 2000 gallon tank.
- 2.) The sidewall reduction credit for the first 2 systems should be $3+2/3+1 \times 2(4) = 5/12 = 0.42$, 2nd replacement is $5/11 = 0.45$
- 3.) The *sewer profile* shows the SHC longer than 65 feet.

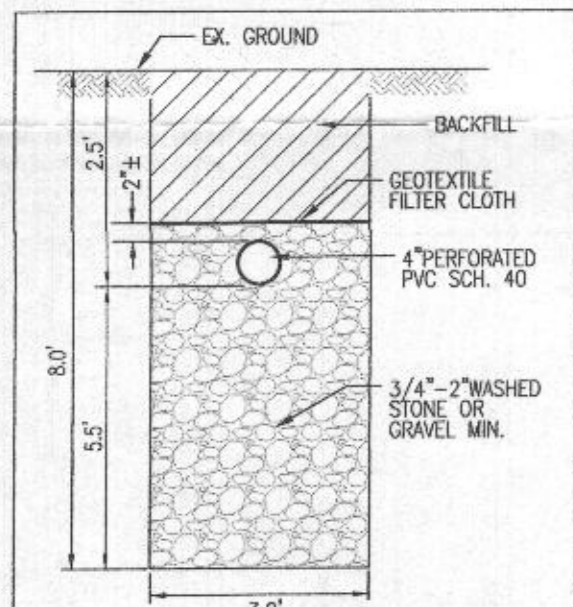
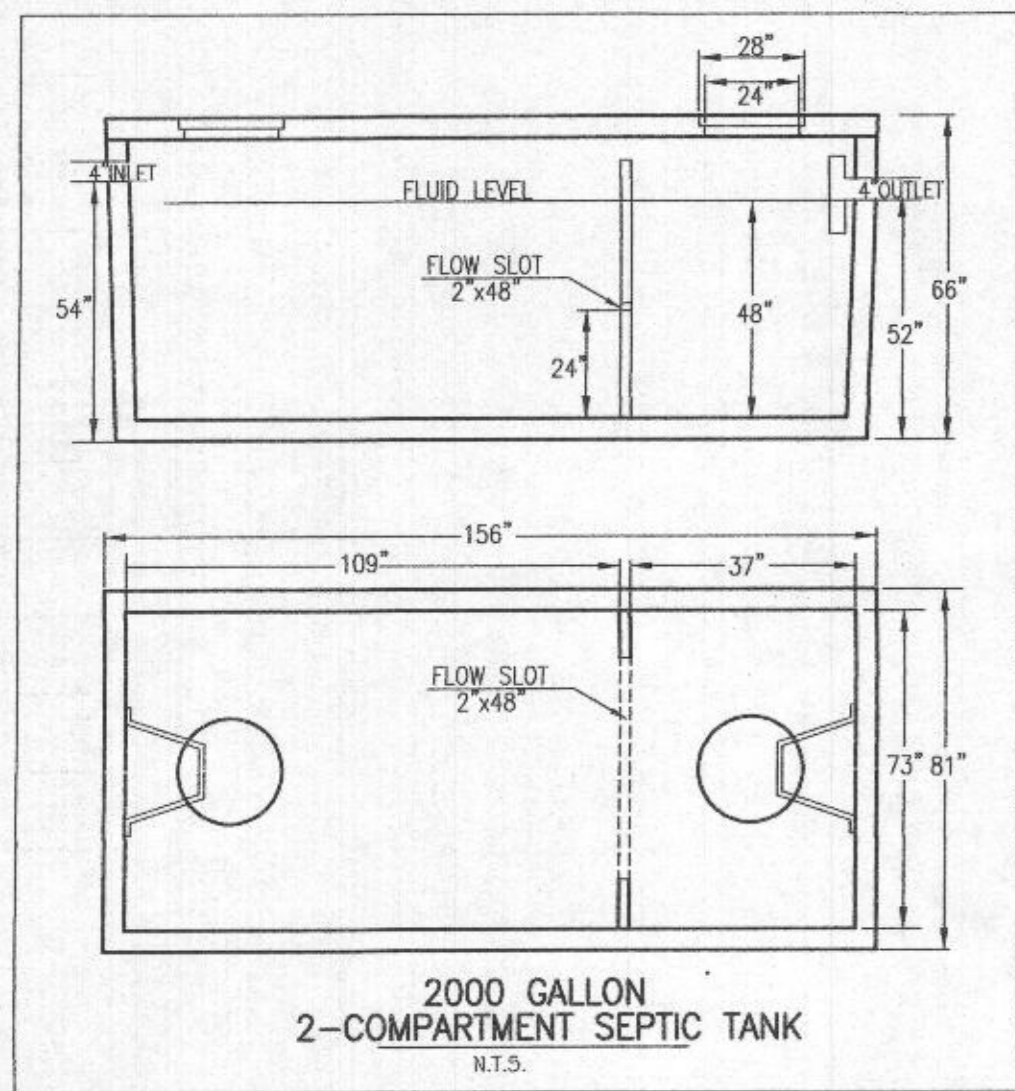
Please let me know if you have any questions.

Thanks,

Hank

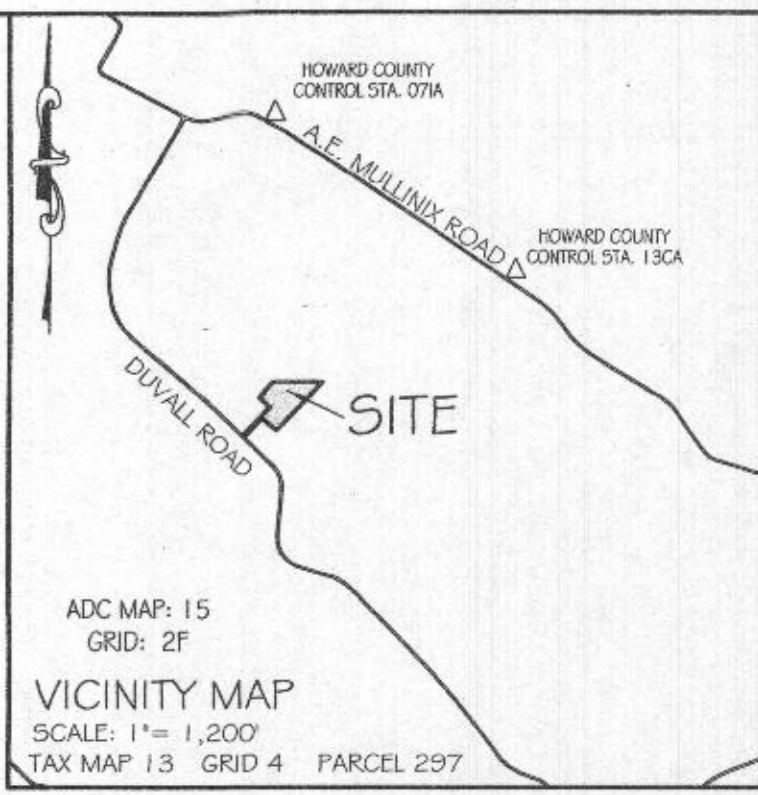
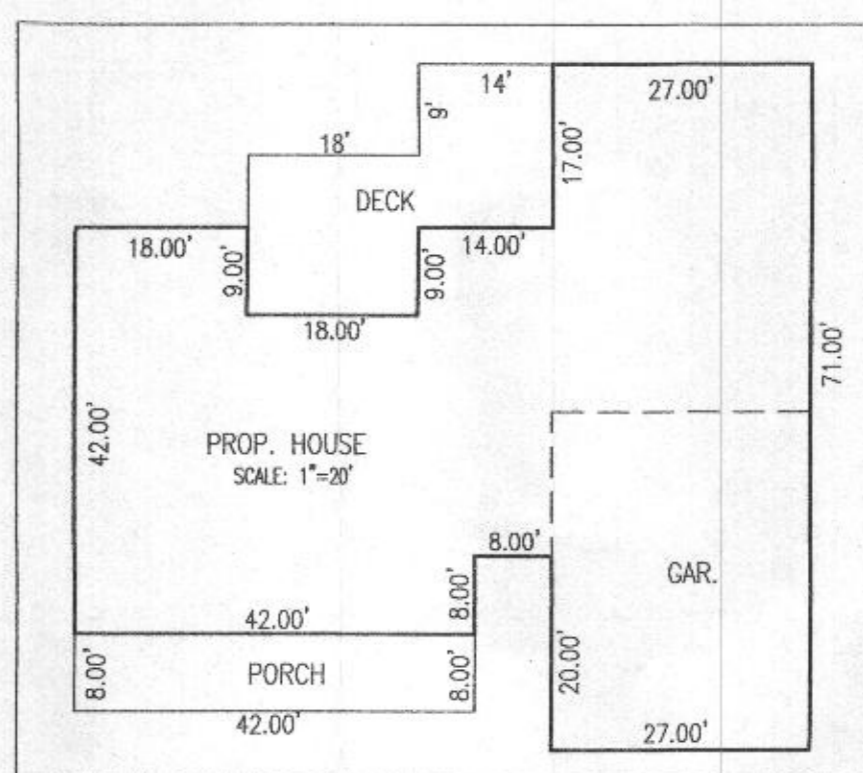
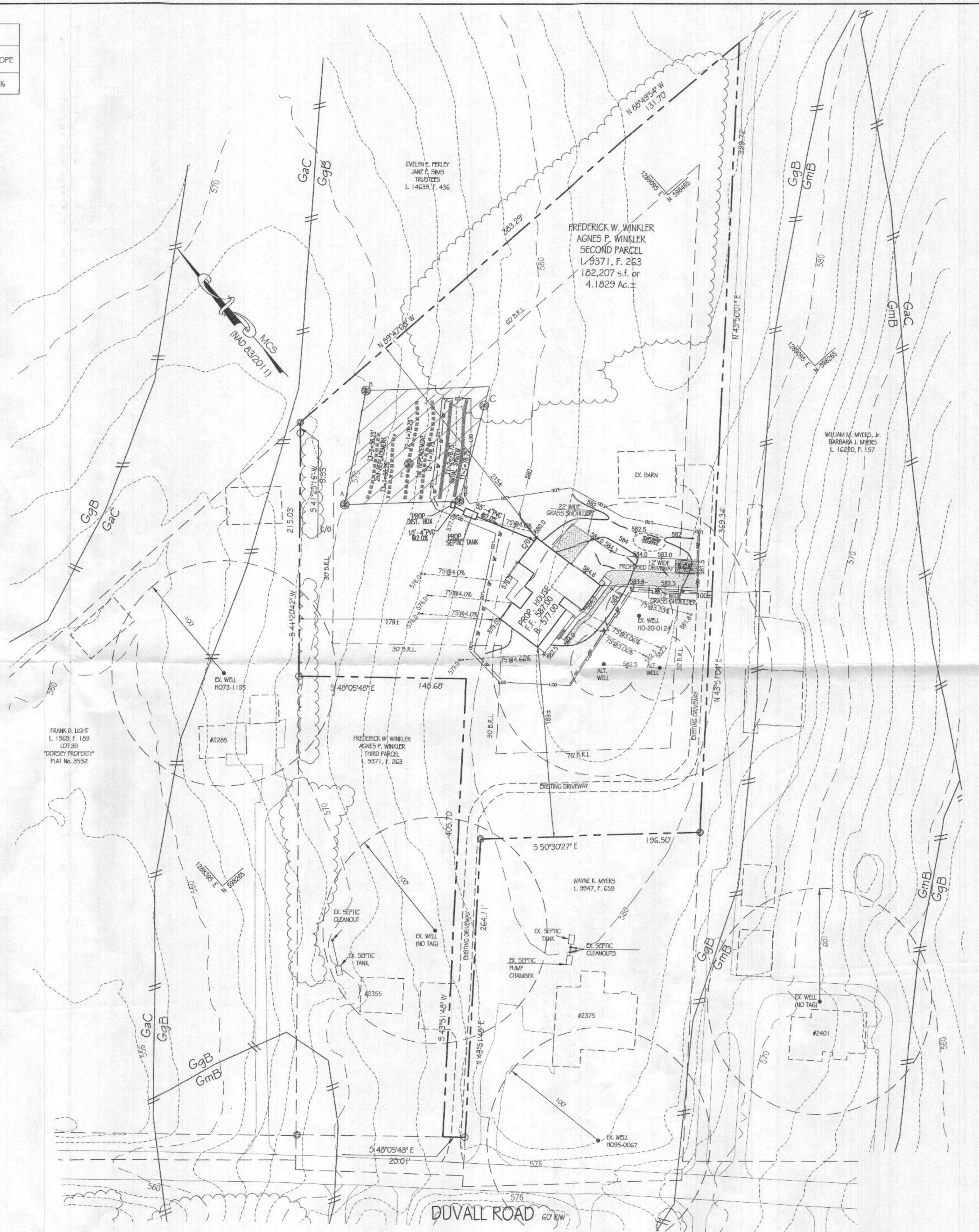
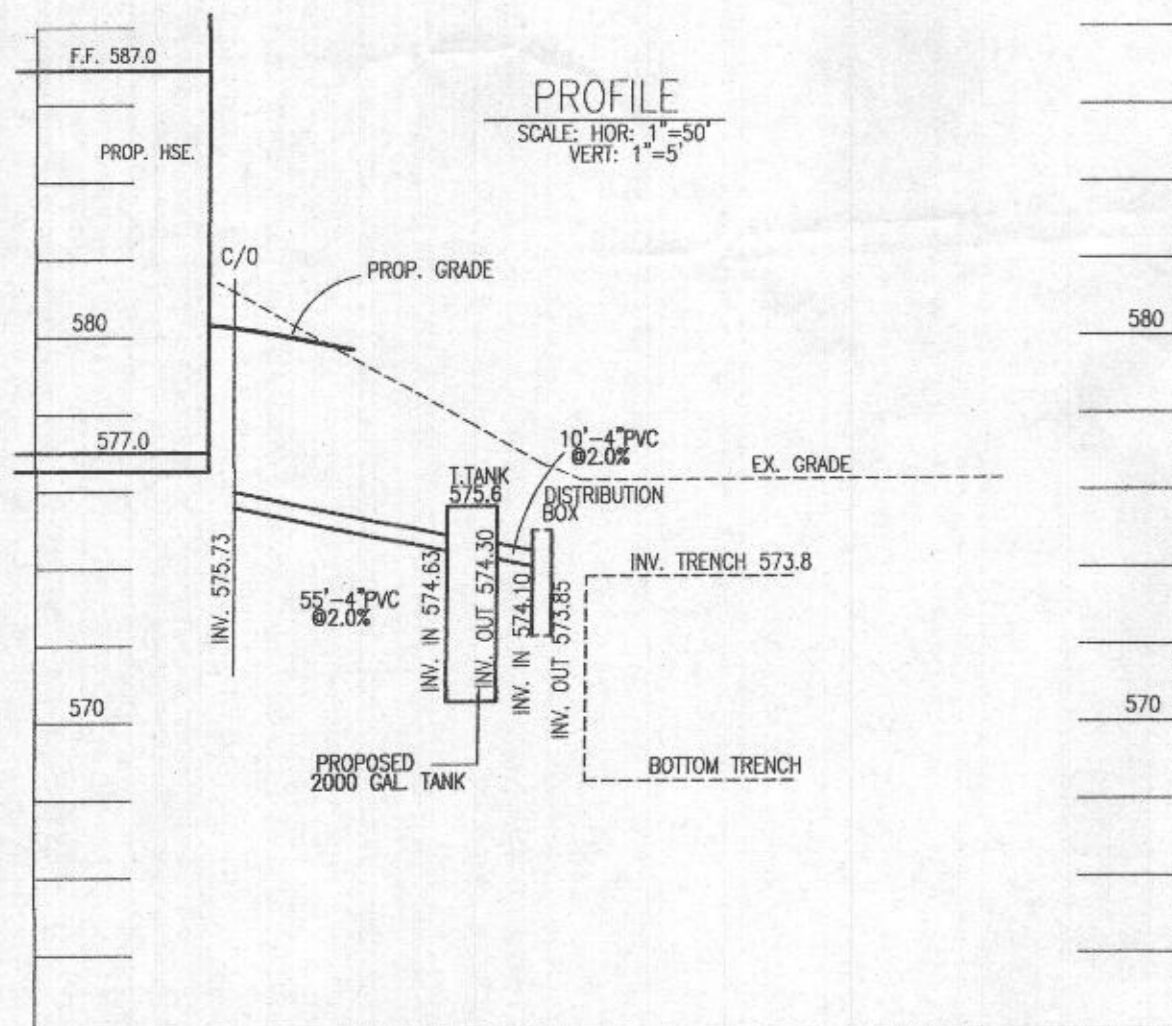
Hank Oswald, L.E.H.S.
Howard County Health Department
Well & Septic Program
410.313.1786
hoswald@howardcountymd.gov

SOIL LEGEND					
MAP SYMBOL	MAPPING UNIT	HYDROLOGIC SOIL GROUP	HYDRIC COMPONENTS	Kw	SLOPE
GgB	GLENELG LOAM	B	NO	0.24	3-8%



- NOTE:
1. INITIAL TRENCHES SHALL BE CONSTRUCTED 10 FT. MIN. EDGE TO EDGE.
 2. TRENCH BOTTOMS SHALL BE LEVEL ALONG THE LENGTH OF 4" PERF. DISTRIBUTION PIPE.

SEPTIC TRENCH DETAIL
N.T.S.



- GENERAL NOTES:**
1. TOPOGRAPHY & PLANIMETRIC FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY, SUPPLEMENTED WITH FIELD LOCATIONS BY VANMAR ASSOCIATES, INC. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVD83.
 2. THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
 3. ZONING DISTRICT: RC-DEO
 4. LIMIT OF DISTURBANCE (LOD) = 24,927 SQ.FT.
 5. THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS LOT.
 6. STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY N-1 ROOFTOP DISCONNECTION AND N-2 NON-ROOFTOP DISCONNECTION.

- SEPTIC SYSTEM TRENCH DESIGN**
- INITIAL NUMBER OF BEDROOMS = 6
 APPLICATION RATE = 0.8 GPD / sq.ft.
 DESIGN FLOW: 150 GPD X 6 BEDROOMS = 900 GPD
 900 GPD / 0.8 GPD/sq.ft. = 1125 sq.ft.
 1125 sq.ft. / 3 ft. WIDE TRENCH = 375 LF TRENCH
 375 LF TRENCH X 0.42 REDUCTION CREDIT = 157.5 LF TRENCH
 TRENCH T1-1 EX. GRD=576.3 -INV. TRENCH=573.8 -B. TRENCH=568.3
 TRENCH T1-2 EX. GRD=575.3 -INV. TRENCH=572.8 -B. TRENCH=567.3
- 1st REPLACEMENT
 APPLICATION RATE = 0.8 GPD / sq.ft.
 DESIGN FLOW: 150 GPD X 6 BEDROOMS = 900 GPD
 900 GPD / 0.8 GPD/sq.ft. = 1125 sq.ft.
 1125 sq.ft. / 3 ft. WIDE TRENCH = 375 LF TRENCH
 375 LF TRENCH X 0.42 REDUCTION CREDIT = 157.5 LF TRENCH
 TRENCH T2-1 EX. GRD=574.3 -INV. TRENCH=571.8 -B. TRENCH=566.3
 TRENCH T2-2 EX. GRD=573.3 -INV. TRENCH=570.8 -B. TRENCH=565.3
- 2nd REPLACEMENT
 APPLICATION RATE = 1.2 GPD / sq.ft.
 DESIGN FLOW: 150 GPD X 6 BEDROOMS = 900 GPD
 900 GPD / 1.2 GPD/sq.ft. = 750 sq.ft.
 750 sq.ft. / 3 ft. WIDE TRENCH = 250 LF TRENCH
 250 LF TRENCH X 0.45 REDUCTION CREDIT = 112.5 LF TRENCH
 TRENCH T3-1 EX. GRD=572.3 -INV. TRENCH=569.8 -B. TRENCH=564.3
 TRENCH T3-2 EX. GRD=571.3 -INV. TRENCH=568.8 -B. TRENCH=563.3

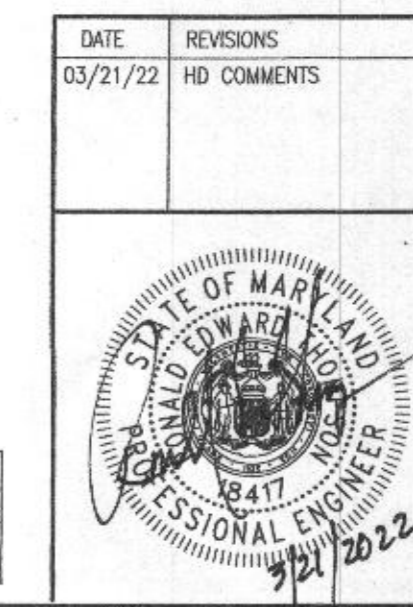
- SITE PLAN NOTES:**
1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
 2. MAXIMUM COVER OVER THE TANK IS 3 FEET. GREATER DEPTH WILL REQUIRE A HEAVY LOAD BEARING TANK.
 3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
 4. THE EX. WELL HO-20-0124 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
 5. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND OR SEPTIC SYSTEMS HAVE BEEN SHOWN.

THIS AREA DESIGNATES A 10,000 S.F. PRIVATE SEWAGE DISPOSAL AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE DISPOSAL AREA.

(PASSED) PERCOLATION TEST SITE:

EX. WELL:

Approved Septic System Plan
 Howard County Health Department
 Hank Oswald
 Signature Date 4/1/22



OWNER:
 FREDERICK W. WINKLER
 AGNES P. WINKLER
 2355 DUVALL ROAD
 WOODBINE, MD. 21797
 301-219-4887

PROFESSIONAL CERTIFICATION
 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. 18417, Expiration Date: 9-21-23.

ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
WINKLER PROPERTY
 SECOND PARCEL LIBER 9371 FOLIO 263
 2359 DUVALL ROAD

TAX MAP: 13
 GRID NO: 4
 PARCEL NO: 297

ELECTION DISTRICT: No. 4
 HOWARD COUNTY, MARYLAND
 EX. ZONING: RC-DEO

SCALE: 1" = 50'
 DATE: FEBRUARY 2022
 SHEET 1 OF 1

VANMAR ASSOCIATES, INC.
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 310 South Main Street Mount Airy, Maryland 21771
 (301) 829-2890 (301) 831-5015 (410) 549-2751
 Fax (301) 831-5603 ©Copyright, Latest Date Shown