

**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)

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

RECEIPT DATE: \_\_\_\_\_ **ONSITE SEWAGE DISPOSAL SYSTEM** P \_\_\_\_\_

APPROVAL DATE: 10/20/2022 **PERMIT: CONSTRUCTION** A \_\_\_\_\_

PROPERTY ADDRESS: 1807 DAVIS BRANCH ROAD, WOODSTOCK, MD 21163

SUBDIVISION: MYRTUE PROPERTY LOT: 5 TAX ID: 03-352374

CONTRACTOR: FARM AND HOME EXCAVATING, INC. EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: 901 DRIVER ROAD, MARRIOTTSVILLE, MD 21104 PHONE: (410)442-2139

PROPERTY OWNER: SONSHINE MD LP EMAIL: nbontempi@keystonecustomhomes

OWNER ADDRESS: 227 GRANITE RUN ROAD, LANCASTER, PA 17601 PHONE: (717)469-9060

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: MAYER BROS., INC.

PUMP MODEL: n.a. PUMP SIZE n.a. PUMP TANK CAPACITY: n.a.

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

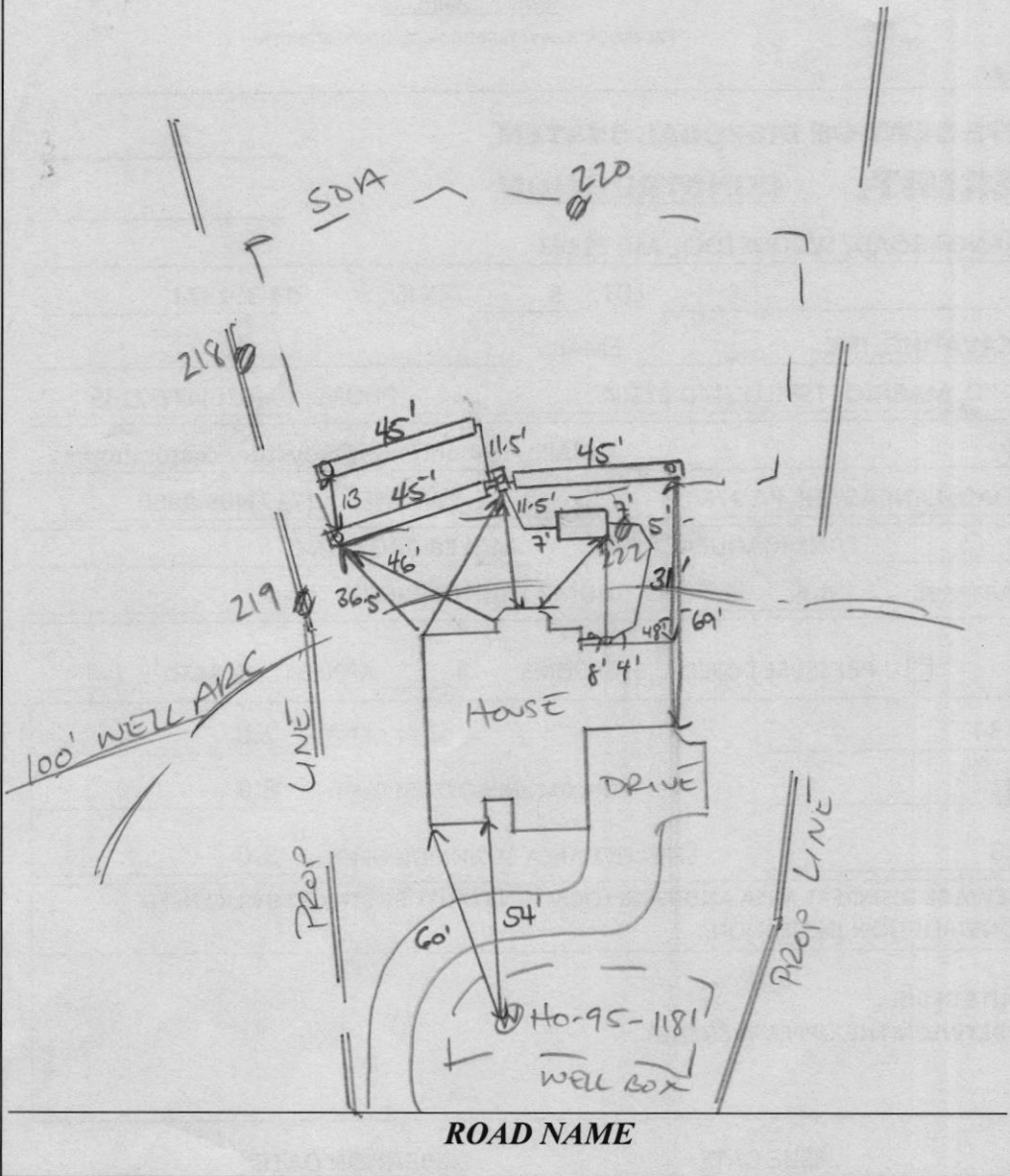
TRENCHES:	LINEAR FEET REQUIRED: <u>134</u>	INLET DEPTH: <u>2.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>13</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	INSTALL AT LEAST 2 CLEANOUTS IN SHC. INSTALL DISTRIBUTION BOX BETWEEN THE UPPER TRENCHES.	

ISSUED BY: R BRICKER ISSUE DATE: \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_

- 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 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 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.**

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	2'	8'
NUMBER OF TRENCHES		3
TOTAL LENGTH		135 F
ABSORPTION AREA		405 SF + 5' SIDE
DISTRIBUTION BOX LEVEL		SPEED WALL
DISTRIBUTION BOX BAFFLE		CONCRETE
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	18"
BAFFLES	YES
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	08/15/2022
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:

10/12/2022 CONFIRMED CONTOUR OF 3x 45' TRS. *[Signature]*

INSTALLATION:

10/18/2022 INSTALLED S1C, S1L SEPTIC TANK *[Signature]*  
10/19/2022 T<sub>1</sub> + T<sub>2</sub> INSTALLED *[Signature]* 10/20/2022 T<sub>3</sub> COMPLETE  
D BOX LEVELLED W/ SPEED LEVELS. *[Signature]*

FINAL INSPECTOR

*[Signature]*

DATE OF APPROVAL

10/20/2022

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 Jeffrey & Shannon Swenson (“the Owner”).

WHEREAS, the Owner owns a tract of land at street address 1807 Davis Branch Rd, Woodstock MD 21163 and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 10, Block #     , Parcel # 225, Deed Reference # 21266/004 and Tax Account # 03-352374 (“the Property”).

WHEREAS, the Property lacks an available public drinking water source and is required to have and 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 Ho-95-118 that has been tested by the Health Department (or a private laboratory certified to perform testing) for radionuclide particles. The results of the tests have shown that the gross alpha particle content and/or the gross beta particle content and/or the combined radium 226/228 levels exceeds the standards of 15 picocuries per liter (pCi /L), 4 millirems per year (mrem/yr) and/or 5pCi/L respectively.

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 maximum contaminate levels (MCL’s) for radionuclides.

WHEREAS, MDE has determined that radium can be effectively removed from the drinking water by the use of treatment devices (e.g., ion exchange or 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 radionuclides.




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 gross alpha, gross beta and radium levels to below their respective 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 gross alpha, gross beta (short and long term) and radium 226 / 228 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.

 Owner	12/12/2022 Date	_____ Buyer	_____ Date
 Owner	12/12/22 Date	_____ Buyer	_____ Date
 Howard County Health Department	12/15/22 Date		

1507 DAVIS BRANCH RD

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: Swenson  
Ref: 1

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

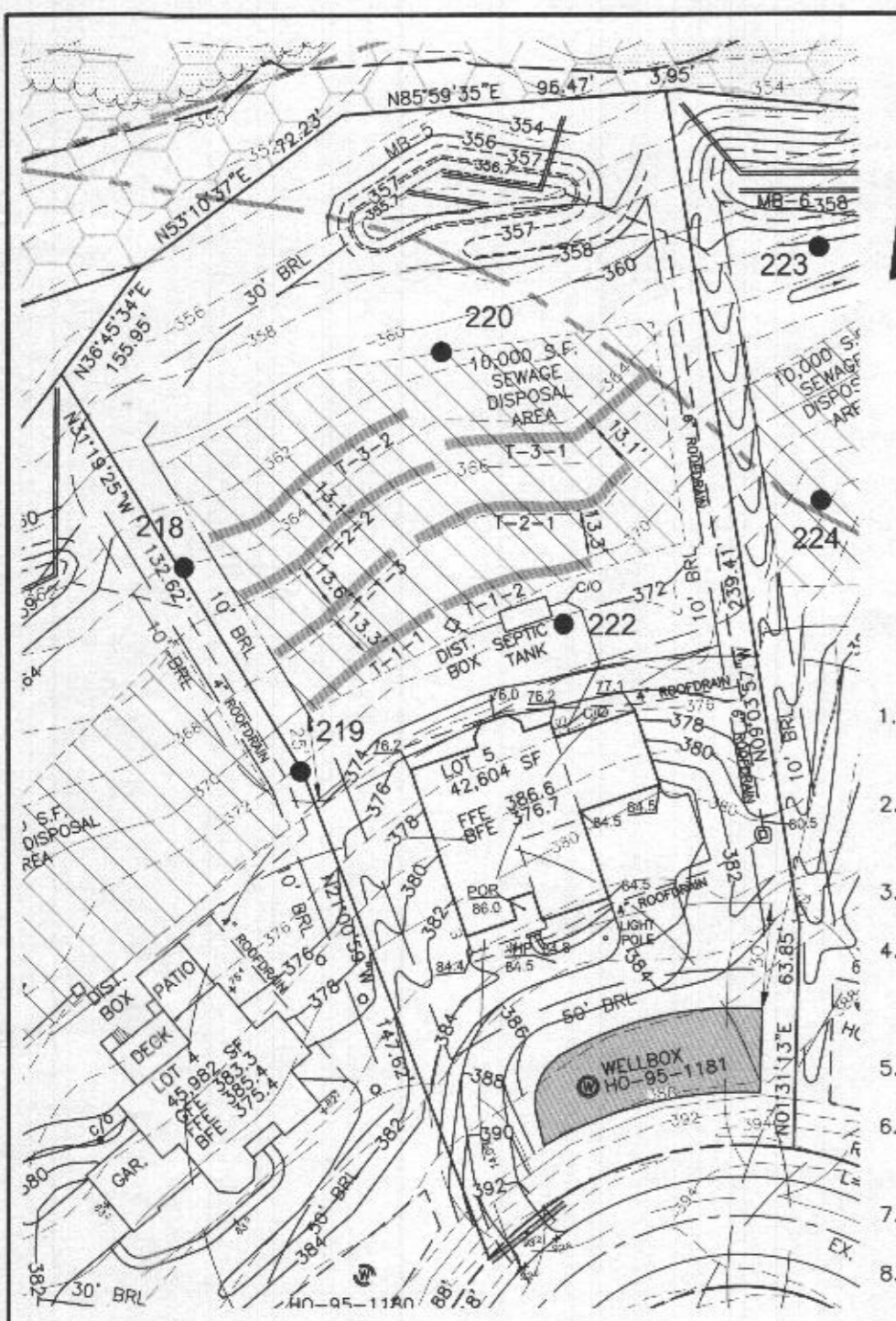
=====  
SubTotal: 60.00  
Total: 60.00

=====  
CRD-Credit 60.00  
Credit Card Confirmation : 028116

12/15/2022 10:05 CC17-DH

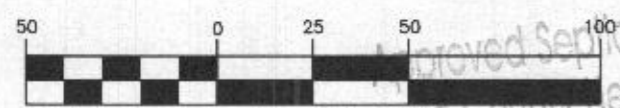
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Thank you for visiting us today~



PLAN VIEW

1" = 50'



(IN FEET)  
1 inch = 50 ft.

*Approved Septic System Plan  
Howard County Health Department*

*2000 gal Septic Tank  
to Gravity Distribution  
for 6-bedroom residence*

*RBush  
Signature*

*9/10/2021  
Date*

**LEGEND**

- 400 PROPOSED CONTOURS
- 400 EXISTING CONTOURS
- EXISTING PRIVATE SEWAGE AREA
- PROPOSED PRIVATE SEWAGE AREA
- EXISTING WELL BOX
- PROPOSED WELL BOX
- PROPOSED TREELINE
- EXISTING TREELINE
- SOILS MAP SYMBOL
- SOILS DELINEATION LINE
- PERC TEST PASSED

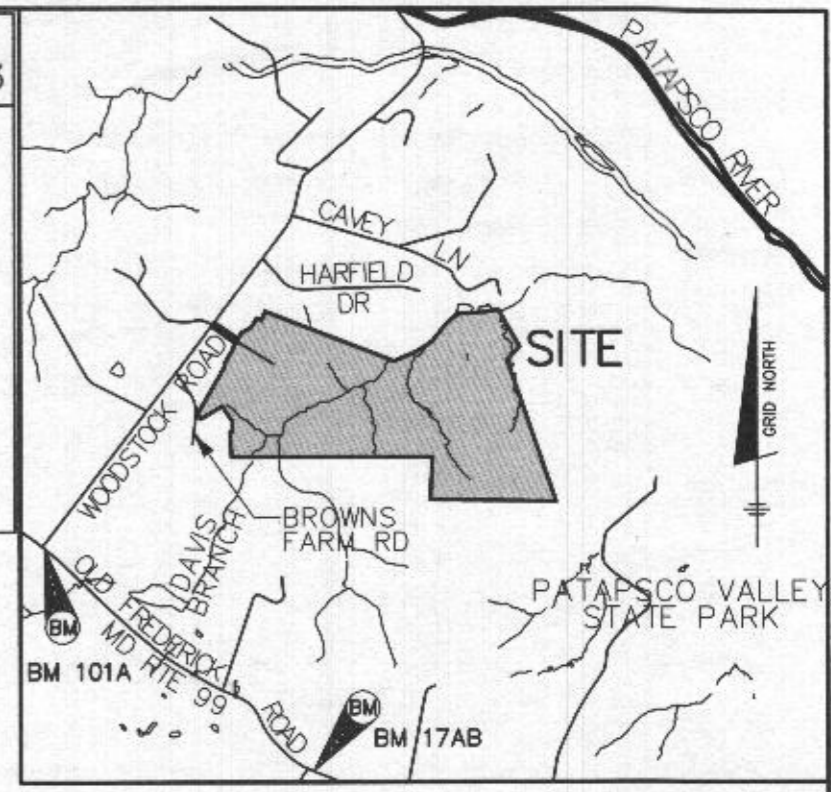
**GENERAL NOTES**

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR MYRTUE PROPERTY, PLAT NUMBER 23865. REFER TO THE PLAT FOR LOT DIMENSIONS, LOT AREA, ALL EASEMENTS AND CONDITIONS.
2. THE EXISTING WELL SHOWN ON THIS PLAN (HO-95-1181) HAS BEEN FIELD LOCATED ON JUNE, 2019 BY BENCHMARK ENGINEERING, INC. AND IS ACCURATELY SHOWN.
3. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
4. TOPOGRAPHY SHOWN WAS FLOWN BY VIRGINIA RESOURCE MAPPING, INC. DATED FEBUARY 2003 AND SUPPLEMENTED WITH FIELD SURVEY BY DMW, INC. DATED 2005 AND BENCHMARK ENGINEERING, INC. DATED JUNE, 2019 WHICH CONSISTS OF 2 FOOT CONTOUR INTERVALS.
5. SEDIMENT AND EROSION CONTROLS WILL BE SUBMITTED BY HOWARD SOILS CONSERVATION DISTRICT AS A CUSTOM GRADING PLAN.
6. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED BUILDING PERMIT AND CUSTOM GRADING PLANS.
7. ANY CHANGES TO A PRIVATE SEWAGE DISPOSAL AREA OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
8. 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.
9. ANY ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
10. THE SEPTIC TANK WILL BE A 2000 GALLON TWO COMPARTMENT TANK.
11. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
12. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS/OR SEPTIC SYSTEM HAVE BEEN SHOWN.
13. ANY FUTURE WELLS SHALL BE 10 FEET AWAY FROM THE DRIVEWAY.

**BENCHMARK INFORMATION NAD83**

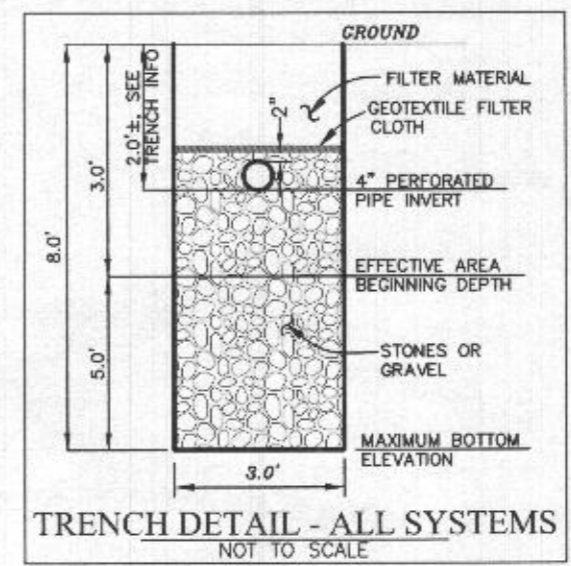
Ho. Co. STATION 17AB  
STAMPED DISC SET ON TOP  
OF CONCRETE COLUMN  
NORTHING: 564468.943'  
EASTING: 1318257.375'  
ELEVATION: 561.105'

Ho. Co. STATION 101A  
STAMPED DISC SET ON TOP  
OF CONCRETE COLUMN  
NORTHING: 565347.937'  
EASTING: 1319266.269'  
ELEVATION: 588.708'



VICINITY MAP

SCALE: 1" = 2000'



TRENCH DETAIL - ALL SYSTEMS  
NOT TO SCALE

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. 28376, Expiration Date: 01-01-2023.



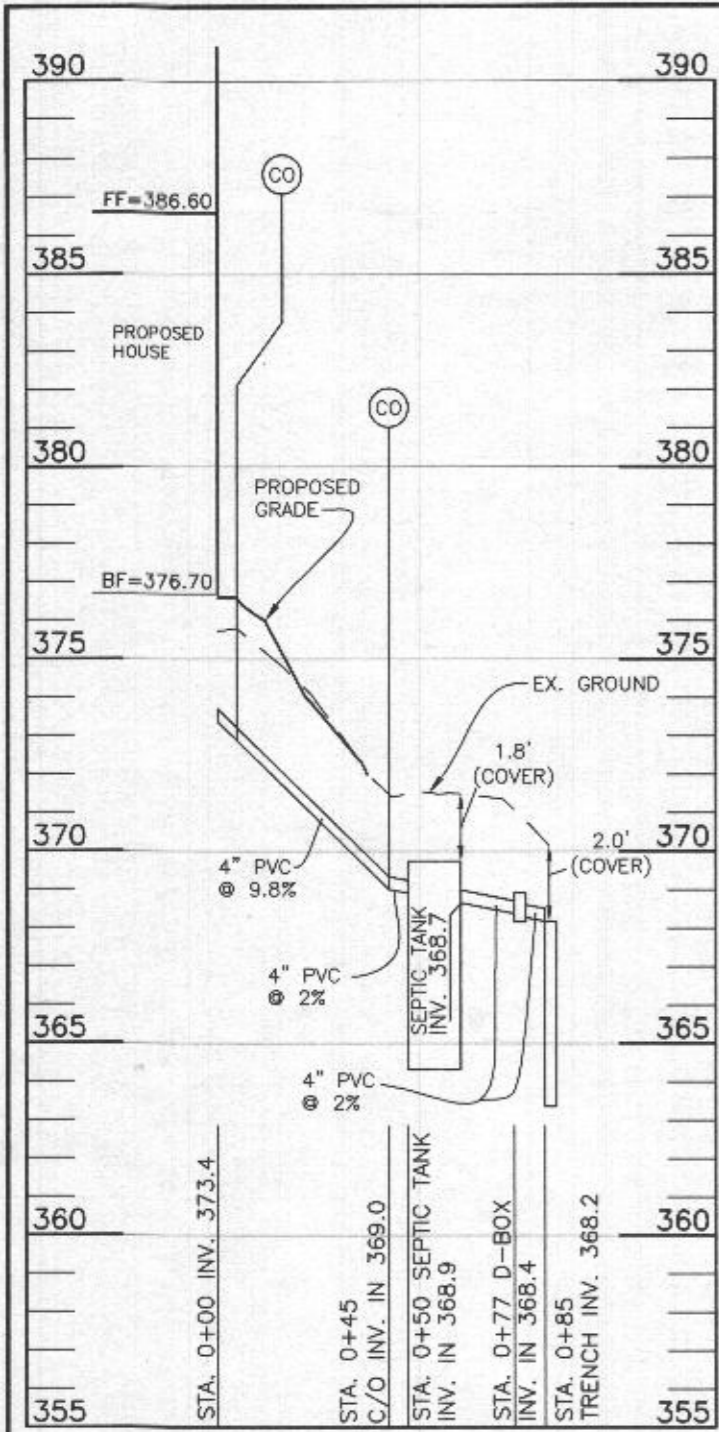
AAM-BEI

2021.08.26 12:46:37 -04'00

PROJECT:		<b>MYRTUE PROPERTY LOT 5</b>	
LOCATION: TAX MAP: 10, GRID: 24, PARCEL: 225, ZONED: RC-DEO 1807 DAVIS BRANCH RD. WOODSTOCK, MD 21163 6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352374			
TITLE:		ONSITE SEWAGE DISPOSAL PLAN	
HOUSE TYPE:		CUSTOM - KEYSTONE HOMES	
DATE:	AUGUST, 2021	PROJECT NO.	2099
SCALE:	AS SHOWN	DRAWING	1 OF 2

OWNER/BUILDER:  
KEYSTONE CUSTOM HOMES, INC.  
227 GRANITE RUN DR.  
SUITE 100  
LANCASTER, PA 17601  
717-464-9060

**BENCHMARK**  
ENGINEERS • LAND SURVEYORS • PLANNERS  
**ENGINEERING, INC.**  
8480 BALTIMORE NATIONAL PIKE SUITE 315  
ELLCOTT CITY, MARYLAND 21043  
(P) 410-465-6105 • (F) 410-465-6644  
WWW.BEI-CIVILENGINEERING.COM



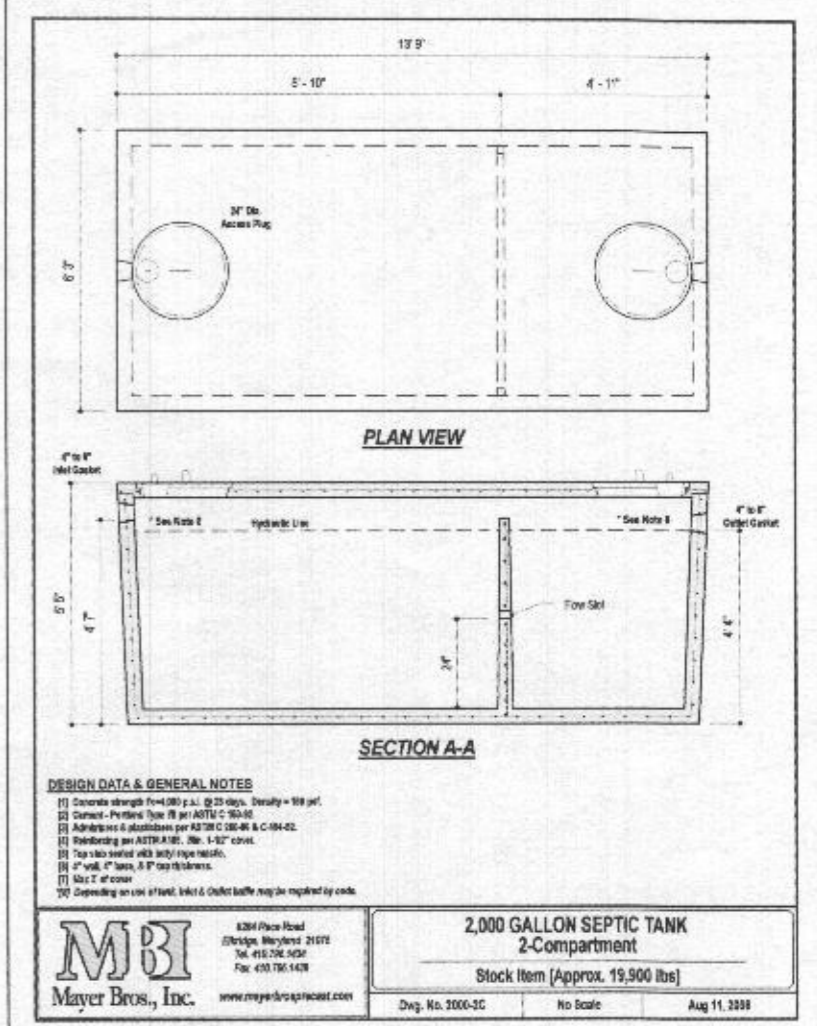
INITIAL SYSTEM		
Number of Bedrooms	6	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	3.0	ft
Bottom Max Depth	8.0	ft
Design Flow	900	gpd
Drainage Field square footage	1125	sf
Sidewall Reduction Credit	0.36	
Trench width	3	ft
Effective Area Depth	5	ft
Trench Spacing	13	ft
<b>Linear Length of trench Required</b>	<b>134</b>	<b>lf</b>

1ST REPLACEMENT SYSTEM		
Number of Bedrooms	6	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	3.0	ft
Bottom Max Depth	8.0	ft
Design Flow	900	gpd
Drainage Field square footage	1125	sf
Sidewall Reduction Credit	0.36	
Trench width	3	ft
Effective Area Depth	5	ft
Trench Spacing	13	ft
<b>Linear Length of trench Required</b>	<b>134</b>	<b>lf</b>

2ND REPLACEMENT SYSTEM		
Number of Bedrooms	6	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	3.0	ft
Bottom Max Depth	8.0	ft
Design Flow	900	gpd
Drainage Field square footage	1125	sf
Sidewall Reduction Credit	0.36	
Trench width	3	ft
Effective Area Depth	5	ft
Trench Spacing	13	ft
<b>Linear Length of trench Required</b>	<b>134</b>	<b>lf</b>

SEPTIC INVERT CHART - Lot 5	
INV @ HOUSE	373.4
GROUND @ HOUSE	376.6
INV IN SEPTIC TANK	368.9
INV OUT SEPTIC TANK	368.7
TOP OF SEPTIC TANK	369.8
GROUND OVER SEPTIC TANK	371.5
INV IN DIST BOX	368.4
INV OUT DIST BOX	368.3
GROUND AT DIST BOX	371.0

TRENCH DESIGN - Lot 5					
INITIAL SYSTEM					
T-1-1	LENGTH	44.7 ft	T-1-2	LENGTH	44.7 ft
	GROUND ELEVATION	370.1		GROUND ELEVATION	370.1
	INVERT ELEVATION	368.1		INVERT ELEVATION	368.1
	MAX BOTTOM ELEVATION	362.1		MAX BOTTOM ELEVATION	362.1
T-1-3	LENGTH	44.7 ft			
	GROUND ELEVATION	367.6			
	INVERT ELEVATION	365.6			
	MAX BOTTOM ELEVATION	359.6			
1ST REPLACEMENT SYSTEM					
T-2-1	LENGTH	67 ft	T-2-3	LENGTH	67 ft
	GROUND ELEVATION	367.5		GROUND ELEVATION	365.8
	INVERT ELEVATION	365.5		INVERT ELEVATION	363.8
	MAX BOTTOM ELEVATION	359.5		MAX BOTTOM ELEVATION	357.8
2ND REPLACEMENT SYSTEM					
T-3-1	LENGTH	67 ft	T-3-3	LENGTH	67 ft
	GROUND ELEVATION	364.7		GROUND ELEVATION	363.2
	INVERT ELEVATION	362.7		INVERT ELEVATION	361.2
	MAX BOTTOM ELEVATION	356.7		MAX BOTTOM ELEVATION	355.2



LOT 5 OSDS  
SCALE: 1"=50' HORIZ., 1"=5' VERT.

HEALTH DEPARTMENT SPEC SHEET INFORMATION - Lot 5			
System	Application Rate	Effective Depth	Bottom Depth
1st System	0.8	3.0	8.0
2nd system	0.8	3.0	8.0
3rd System	0.8	3.0	8.0

OWNER/BUILDER:  
KEYSTONE CUSTOM HOMES, INC.  
227 GRANITE RUN DR.  
SUITE 100  
LANCASTER, PA 17601  
717-464-9060

BENCHMARK  
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS  
ENGINEERING, INC.  
8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315  
ELLCOTT CITY, MARYLAND 21043  
(P) 410-465-6105 ▲ (F) 410-465-6644  
WWW.BEI-CIVILENGINEERING.COM

Approved Septic System Plan  
Howard County Health Department  
2000-gallon Septic Tank  
to Gravity Distribution  
for 6-bedroom residence  
*Signature*  
Date 9/10/2021

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. 28376, Expiration Date: 01-01-2023.



AAM-BEI

2021.08.26 12:46:58 -04'00

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HOUSE TYPE:	CUSTOM - KEYSTONE HOMES		
DATE:	AUGUST, 2021	PROJECT NO.	2099
SCALE:	AS SHOWN	DRAWING	2 OF 2