

**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](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 4/13/22 **ONSITE SEWAGE DISPOSAL SYSTEM** P 571497

APPROVAL DATE: 08/02/2022 **PERMIT: CONSTRUCTION** A \_\_\_\_\_

PROPERTY ADDRESS: 1945 DAVIS BRANCH ROAD, WOODSTOCK, MD 21163

SUBDIVISION: MYRTUE PROPERTY LOT: 22 TAX ID: 03-352560

CONTRACTOR: Farm & Home Sx EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: Driver Rd PHONE: 410.442.2134

PROPERTY OWNER: SONSHINE MD LP EMAIL: greinsmith@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: 7 APPLICATION RATE: 1.2

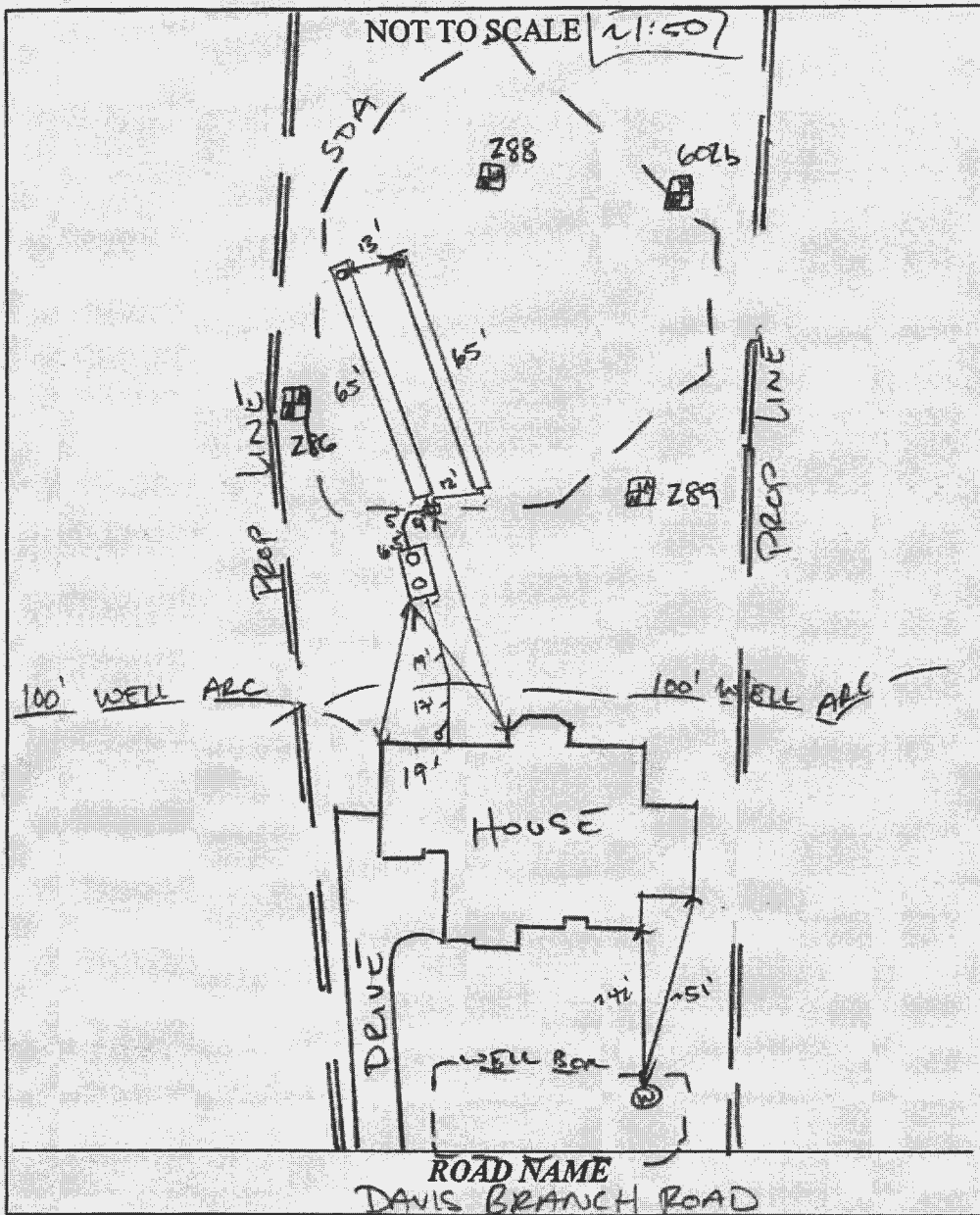
TRENCHES:	LINEAR FEET REQUIRED: <u>122</u>	INLET DEPTH: <u>3.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	INSTALL CLEANOUT IN SHC.	

ISSUED BY: R BRICKER H.O. ISSUE DATE: 4/13/22 EXPIRATION DATE: 4/13/23

- 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 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.**



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3.5'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		130 F
ABSORPTION AREA		390 SF + 4' SIDE WALL
DISTRIBUTION BOX LEVEL		SPED
DISTRIBUTION BOX BAFFLE		CONCRETE
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	3.1'
BAFFLES	YES
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	06/15/2022
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:

07/11/2022 STOCKPILE ON SDA; REMOVE & LAYOUT TRS. TANK  
Loc. OK. ⊕

08/01/2022 Laid out 2x75' TRS. ⊕

INSTALLATION: 07/26/2022 TANK SET, SHE INSTALLED ⊕ 08/02/2022 2x65'  
TRS INSTALLED. D BOX (LEVELLED) W/ SPED LEVELS. ⊕

FINAL INSPECTOR

*[Handwritten Signature]*

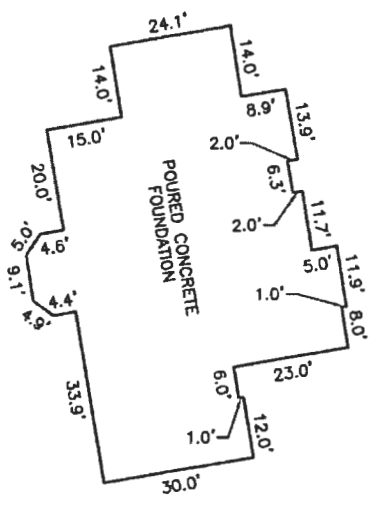
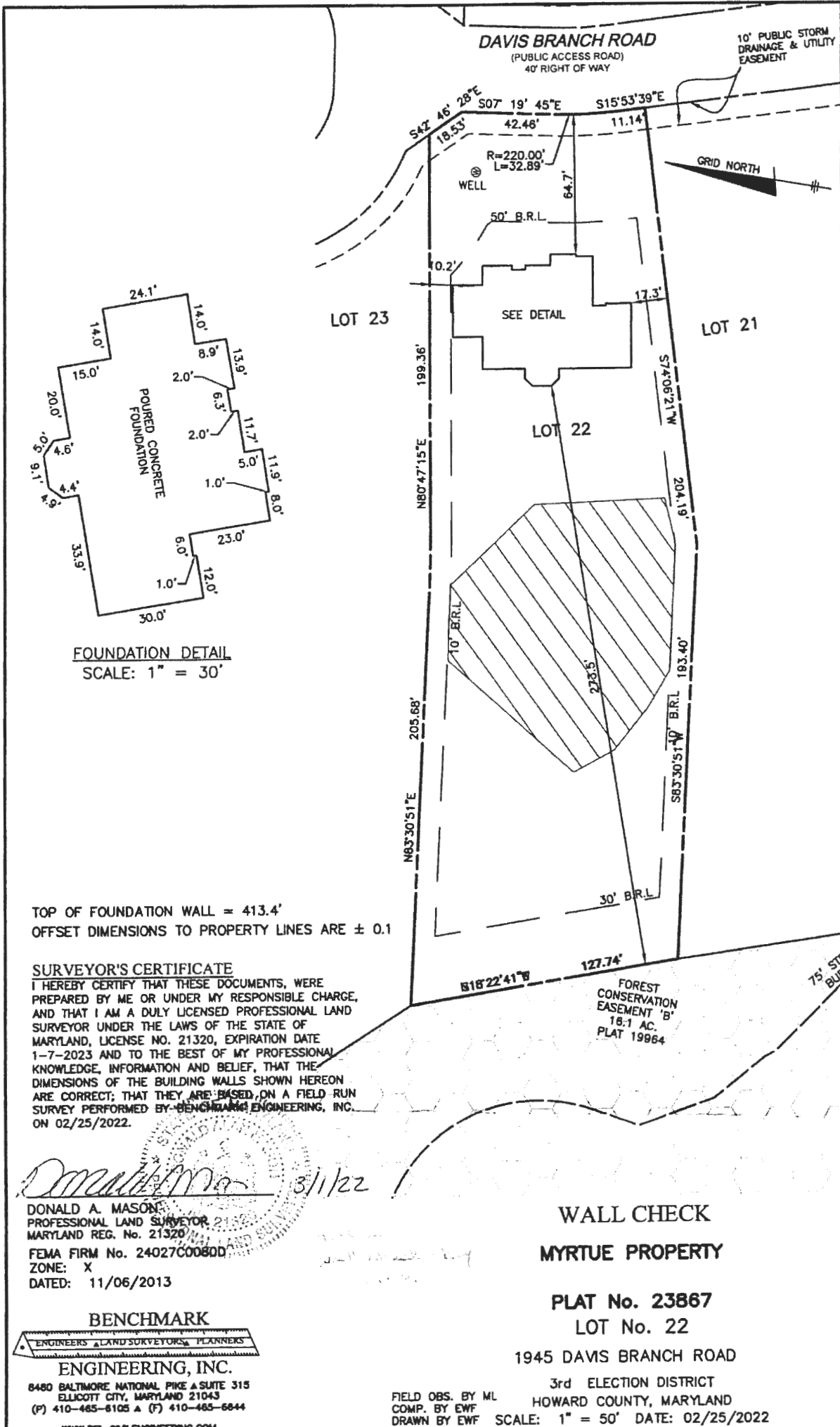
DATE OF APPROVAL

08/02/2022

**DAVIS BRANCH ROAD**

(PUBLIC ACCESS ROAD)  
40' RIGHT OF WAY

10' PUBLIC STORM  
DRAINAGE & UTILITY  
EASEMENT



**FOUNDATION DETAIL**  
SCALE: 1" = 30'

TOP OF FOUNDATION WALL = 413.4'  
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1

**SURVEYOR'S CERTIFICATE**

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. 21320, EXPIRATION DATE 1-7-2023 AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THAT THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREON ARE CORRECT; THAT THEY ARE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 02/25/2022.

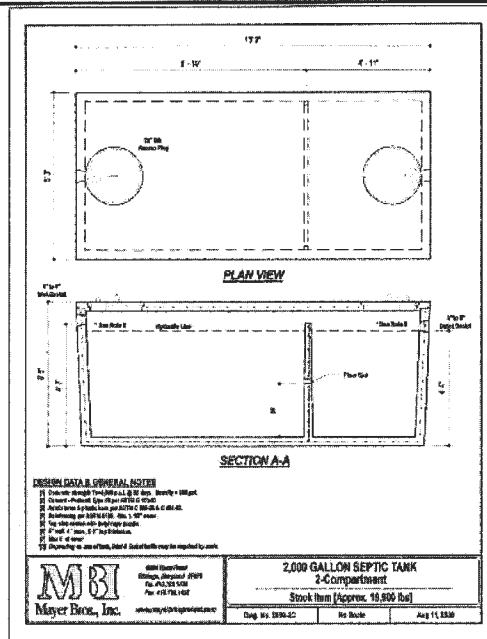
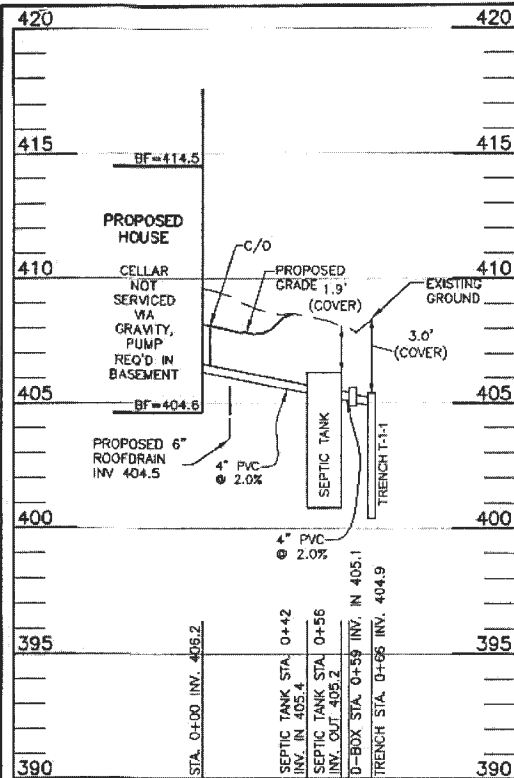
*Donald A. Mason* 3/1/22  
DONALD A. MASON  
PROFESSIONAL LAND SURVEYOR  
MARYLAND REG. No. 21320

FEMA FIRM No. 24027C0080D  
ZONE: X  
DATED: 11/06/2013

**BENCHMARK**  
ENGINEERS & LAND SURVEYORS & PLANNERS  
**ENGINEERING, INC.**  
8480 BALTIMORE NATIONAL PIKE & SUITE 315  
ELLCOTT CITY, MARYLAND 21043  
(P) 410-485-6105 & (F) 410-485-6844

**WALL CHECK**  
**MYRTUE PROPERTY**  
**PLAT No. 23867**  
**LOT No. 22**  
**1945 DAVIS BRANCH ROAD**

3rd ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
FIELD OBS. BY ML  
COMP. BY EWF  
DRAWN BY EWF  
SCALE: 1" = 50' DATE: 02/25/2022



**HEALTH DEPARTMENT SPEC SHEET INFORMATION - Lot 22**

System	Application Rate	Effective Depth	Bottom
1st System	1.2	4.0	8.0
2nd system	1.2	4.5	8.0
3rd System	0.8	3.0	8.0

**INITIAL SYSTEM**

Number of Bedrooms	7	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	4.0	ft
Bottom Max Depth	8.0	ft
Design Flow	1050	gpd
Drainage Field square footage	875	sf
Sidewall Reduction Credit	0.42	
Trench width	3	ft
Effective Area Depth	4	ft
Trench Spacing	11	ft
Linear Length of trench Required	1.22	lf

**SEPTIC INVERT CHART - Lot 22**

INV @ HOUSE	406.2
GROUND @ HOUSE	408.2
INV IN SEPTIC TANK	405.4
INV OUT SEPTIC TANK	405.2
TOP OF SEPTIC TANK	406.2
GROUND OVER SEPTIC TANK	408.1
INV IN DIST BOX	405.1
INV OUT DIST BOX	405.0
GROUND AT DIST BOX	408.4

**1ST REPLACEMENT SYSTEM**

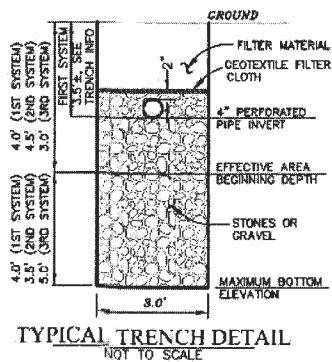
Number of Bedrooms	7	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	4.5	ft
Bottom Max Depth	8.0	ft
Design Flow	1050	gpd
Drainage Field square footage	875	sf
Sidewall Reduction Credit	0.45	
Trench width	3	ft
Effective Area Depth	3.5	ft
Trench Spacing	10	ft
Linear Length of trench Required	1.33	lf

**TRENCH DESIGN - Lot 22**

INITIAL SYSTEM			1ST REPLACEMENT SYSTEM			2ND REPLACEMENT SYSTEM		
T-1-1	T-1-2	T-1-3	T-2-1	T-2-2	T-2-3	T-3-1	T-3-2	T-3-3
LENGTH 40.6 ft	LENGTH 40.6 ft	LENGTH 40.6 ft	LENGTH 44.2 ft	LENGTH 44.2 ft	LENGTH 44.2 ft	LENGTH 52.1 ft	LENGTH 52.1 ft	LENGTH 52.1 ft
GROUND ELEVATION 408.6	GROUND ELEVATION 406.3	GROUND ELEVATION 406	GROUND ELEVATION 404.6	GROUND ELEVATION 403.8	GROUND ELEVATION 402.9	GROUND ELEVATION 402.5	GROUND ELEVATION 400.9	GROUND ELEVATION 400.9
INVERT ELEVATION 405.1	INVERT ELEVATION 402.8	INVERT ELEVATION 402.5	INVERT ELEVATION 402.6	INVERT ELEVATION 401.8	INVERT ELEVATION 400.9	INVERT ELEVATION 400.5	INVERT ELEVATION 398.9	INVERT ELEVATION 398.9
MAX BOTTOM ELEVATION 400.6	MAX BOTTOM ELEVATION 398.3	MAX BOTTOM ELEVATION 398.0	MAX BOTTOM ELEVATION 396.6	MAX BOTTOM ELEVATION 395.8	MAX BOTTOM ELEVATION 394.9	MAX BOTTOM ELEVATION 394.5	MAX BOTTOM ELEVATION 392.9	MAX BOTTOM ELEVATION 392.9

**2ND REPLACEMENT SYSTEM**

Number of Bedrooms	7	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	3.0	ft
Bottom Max Depth	8.0	ft
Design Flow	1050	gpd
Drainage Field square footage	1313	sf
Sidewall Reduction Credit	0.36	
Trench width	3	ft
Effective Area Depth	5	ft
Trench Spacing	13	ft
Linear Length of trench Required	1.56	lf



**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  
ELICOTT CITY, MARYLAND 21043  
(P) 410-465-8105 & (F) 410-465-8844  
WWW.BEI-CIVILENGINEERING.COM

**PROJECT: MYRTUE PROPERTY LOT 22**

**LOCATION:** TAX MAP: 10, GRID: 24, PARCEL: 225, ZONED: RC-DEO  
1945 DAVIS BRANCH RD. WOODSTOCK, MD 21163  
6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352560

**TITLE: ONSITE SEWAGE DISPOSAL PLAN**

**HOUSE TYPE: CUSTOM - KEYSTONE HOMES**

**DATE:** JULY, 2021 **PROJECT NO. 2099**

**SCALE: AS SHOWN** **DRAWING 2 OF 2**

Approved Septic System Plan  
Howard County Health Department  
2000-gallon Septic Tank  
To Gravity Distribution  
for 7-Bed room residence  
Signature: [Signature]  
Date: 8/14/21

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

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