



**Howard County
Health Department**

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

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

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

P 571497

APPROVAL DATE: 07/18/2022 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 1951 DAVIS BRANCH ROAD, WOODSTOCK, MD 21163

SUBDIVISION: MYRTUE PROPERTY LOT: 23 TAX ID: 03-352579

CONTRACTOR: Farm 2 Home Ex. EMAIL: _____

CONTRACTOR ADDRESS: Driver Rd PHONE: 410.442.2099

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.

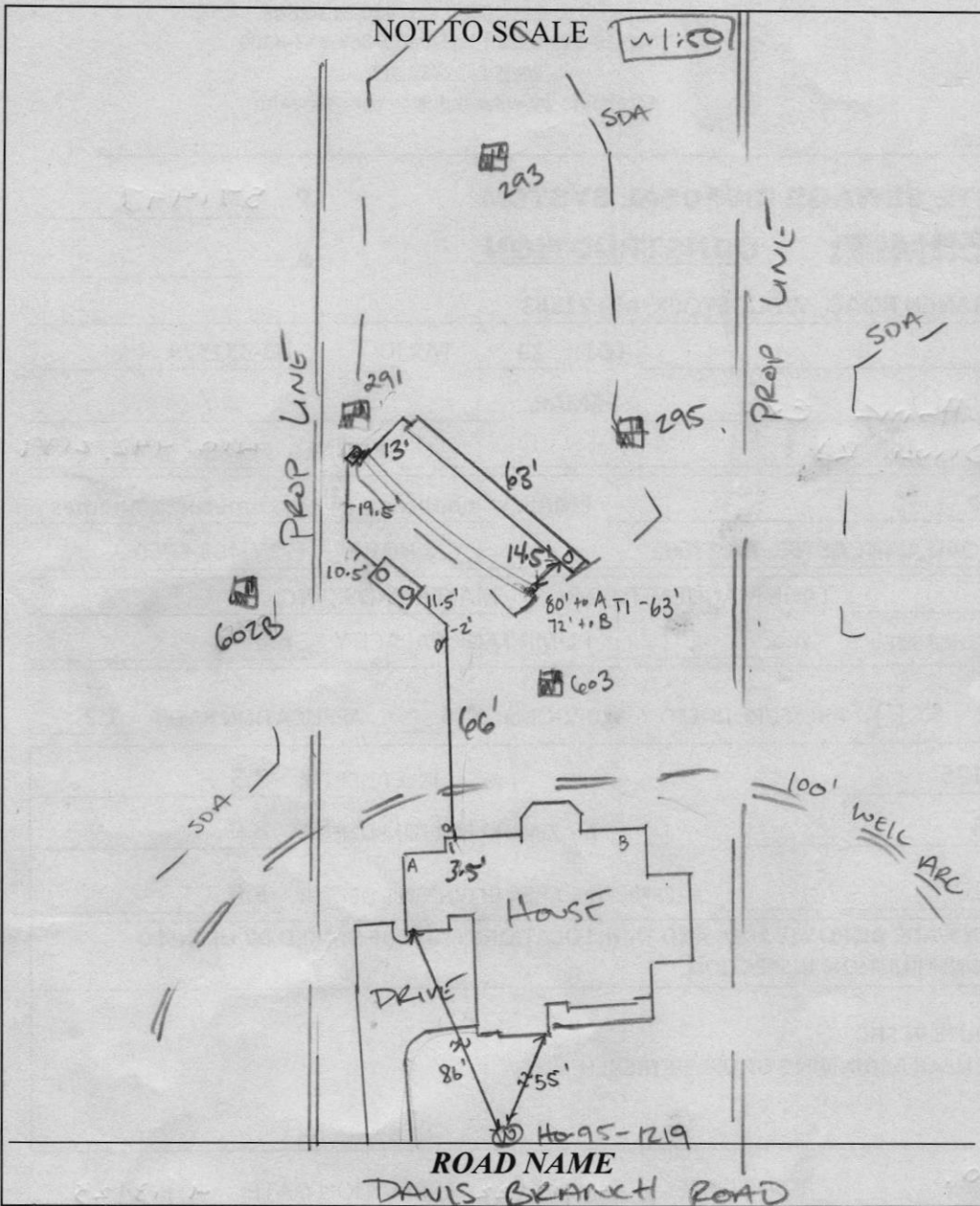
DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>125</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5.0</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 NEAR BEGINNING OF UPPER TRENCH.	

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'	2.5'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		126 F
ABSORPTION AREA		378 SF + 3' SIDE WALL
DISTRIBUTION BOX LEVEL		SPEED
DISTRIBUTION BOX BAFFLE		CONG.
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	GABULON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	2.5'
BAFFLES	YES
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	05/31/2022
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 LAID OUT 2X 63' TRS ON CONTOUR. (P)

INSTALLATION: 07/14/2022 INSTALLED SMC, SL; SET TANK AND D BOX. (P)

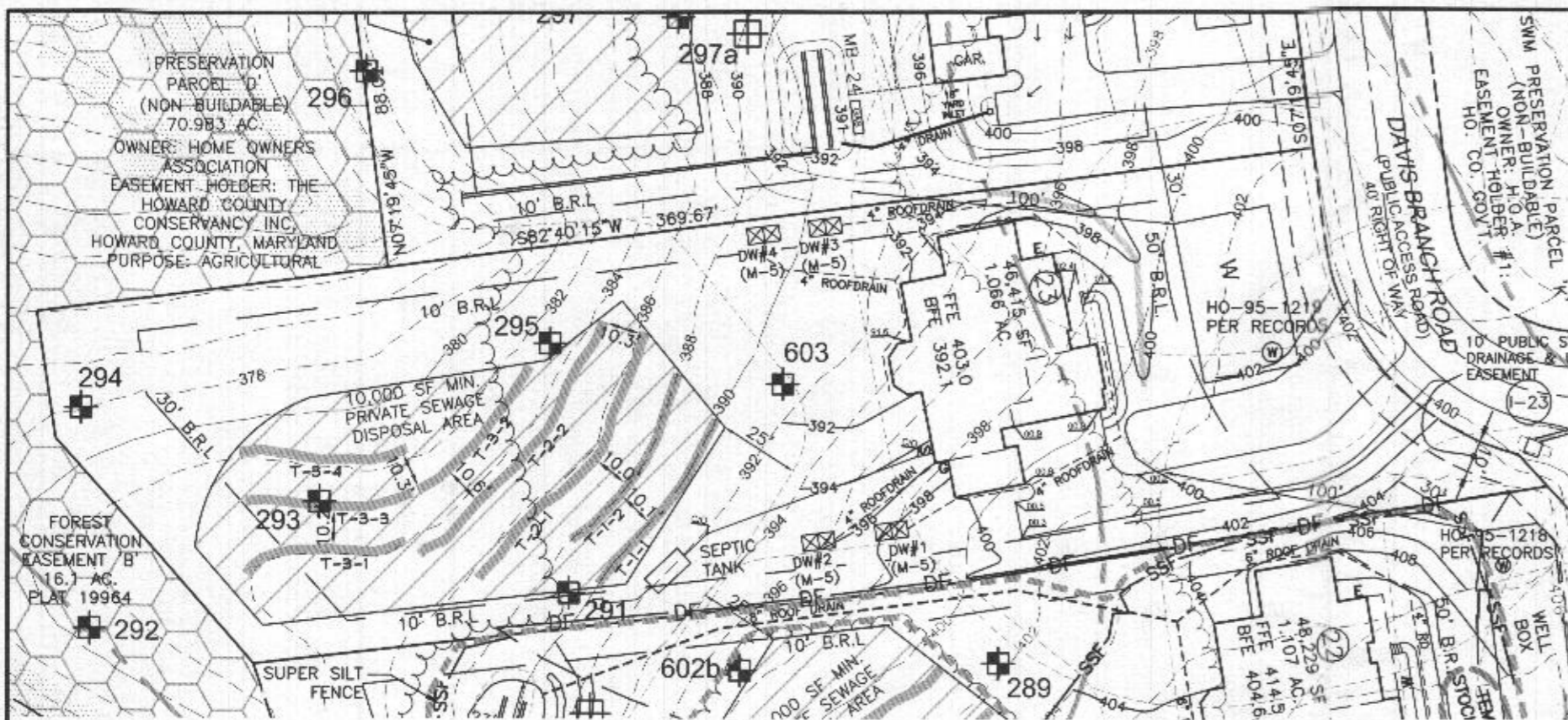
7/15/22- Contractor onsite working on first trench, construction of trench looks good, Stone OK, geotextile fabric in place, OK to backfill and move to 2nd trench for construction, reinspect for T2 & dbox level (P)

07/18/2022 D Box LEVELED w/ SPEED LEVELS. LOWER TRENCH COMPLETE. OK TO BACKFILL. (P)

FINAL INSPECTOR

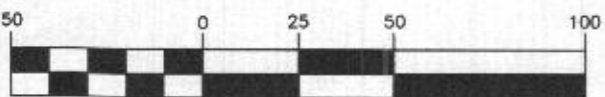
Joseph Abah

DATE OF APPROVAL 07/18/2022



PLAN VIEW

1" = 50'



(IN FEET)
1 inch = 50 ft.

LEGEND

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

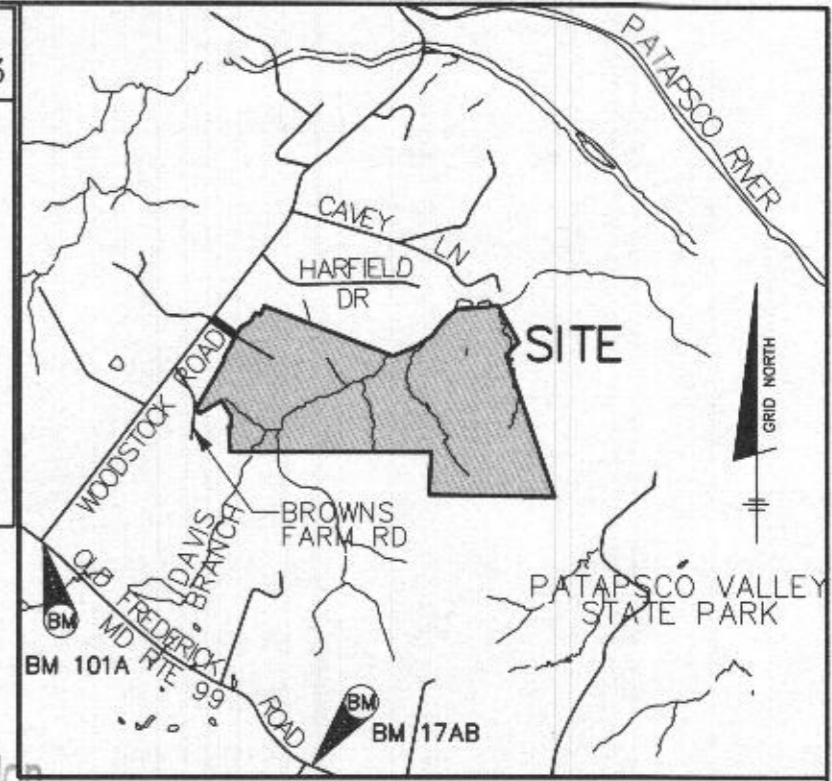
GENERAL NOTES

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-95-1219) HAS BEEN FIELD LOCATED BY DAFT, McCUNE WALKER, INC. AND IS SHOWN IN ACCORDANCE WITH THEIR SURVEY.
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.
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.

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'

Approved Septic System Plan
Howard County Health Department
2000-gallon Septic tank
to Gravity Distribution
for 6-bed room SFD
Beck
Signature
8/30/2021
Date

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

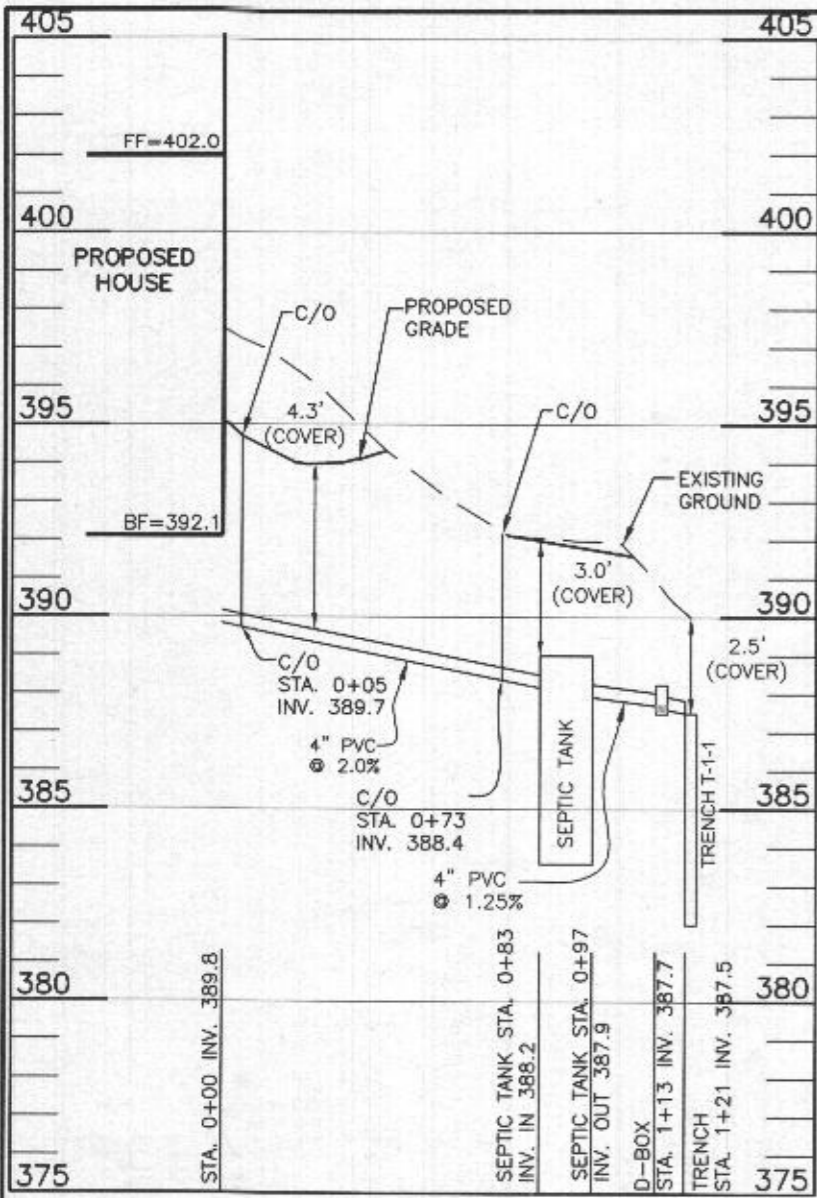
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OWNER:
PALANIVELU &
SUMANTHI SRINIVASAN
4521 VINTER WAY
ELLCOTT CITY, MD 21043
717-464-9060

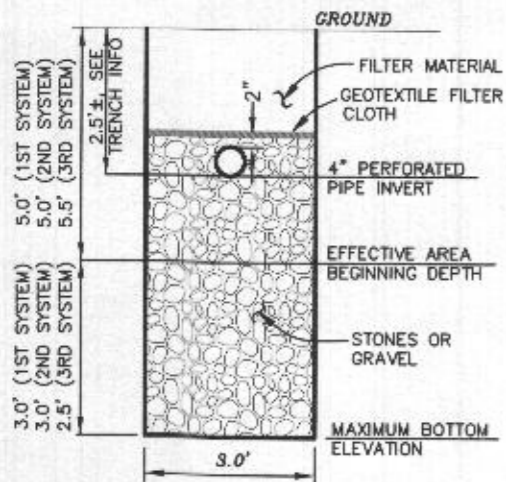
BUILDER:
KEYSTONE CUSTOM HOMES, INC.
227 GRANITE RUN DR.
SUITE 100
LANCASTER, PA 17601
717-464-9060

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

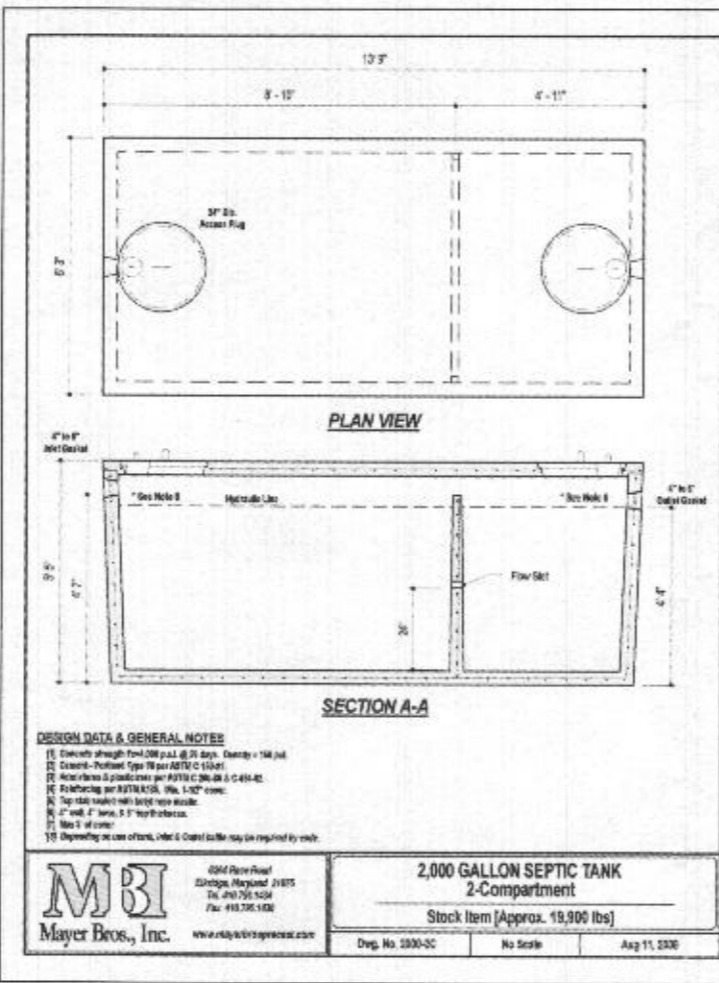
PROJECT:		MYRTUE PROPERTY LOT 23	
LOCATION: TAX MAP: 10, GRID: 24, PARCEL: 225, ZONED: RC-DEO 1951 DAVIS BRANCH RD. WOODSTOCK, MD 21163 6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352579			
TITLE:		ONSITE SEWAGE DISPOSAL PLAN	
HOUSE TYPE:		CUSTOM - KEYSTONE HOMES	
DATE:	AUGUST, 2021	PROJECT NO.	2099
SCALE:	AS SHOWN	DRAWING	<u>1</u> OF <u>2</u>



LOT 23 SEWER PROFILE
SCALE: 1"=50' HORIZ., 1"=5' VERT.



TYPICAL TRENCH DETAIL
NOT TO SCALE



DESIGN DATA & GENERAL NOTES
 1. Elevations through final 100 p.u.d. @ 21 days. Change = 100 p.u.d.
 2. Excavate - Footing Type 18 per ASTM C 1519-11.
 3. Interior finish to grade above per ASTM C 206-04 & C 419-02.
 4. Insulating per ASTM C 553, Min. 1.5\"/>

M B I Mayer Bros., Inc. 2004 River Road, Suiting, Maryland 21075, Tel. 410.750.1524, Fax. 410.750.1528, www.mbiinc.com

2,000 GALLON SEPTIC TANK 2-Compartment
 Stock Item (Approx. 19,900 lbs)
 Dep. No. 2200-2C No Scale Aug 11, 2020

SEPTIC INVERT CHART - Lot 23

INV @ HOUSE	389.8
GROUND @ HOUSE	395.0
INV IN SEPTIC TANK	388.2
INV OUT SEPTIC TANK	387.9
TOP OF SEPTIC TANK	389.0
GROUND OVER SEPTIC TANK	392.0
INV IN DIST BOX	387.7
INV OUT DIST BOX	387.6
GROUND AT DIST BOX	391.0

HEALTH DEPARTMENT SPEC SHEET INFORMATION - Lot 23

System	Application Rate	Effective Depth	Bottom Depth
1st System	1.2	5.0	8.0
2nd System	0.8	5.0	8.0
3rd System	0.8	5.5	8.0

INITIAL SYSTEM

Number of Bedrooms	6	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	5.0	ft
Bottom Max Depth	8.0	ft
Design Flow	900	gpd
Drainage Field square footage	750	sf
Sidewall Reduction Credit	0.50	
Trench width	3	ft
Effective Area Depth	3	ft
Trench Spacing	10	ft
Linear Length of trench Required	125	lf

1ST REPLACEMENT SYSTEM

Number of Bedrooms	6	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	5.0	ft
Bottom Max Depth	8.0	ft
Design Flow	900	gpd
Drainage Field square footage	1125	sf
Sidewall Reduction Credit	0.50	
Trench width	3	ft
Effective Area Depth	3	ft
Trench Spacing	10	ft
Linear Length of trench Required	188	lf

2ND REPLACEMENT SYSTEM

Number of Bedrooms	6	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	5.5	ft
Bottom Max Depth	8.0	ft
Design Flow	900	gpd
Drainage Field square footage	1125	sf
Sidewall Reduction Credit	0.56	
Trench width	3	ft
Effective Area Depth	2.5	ft
Trench Spacing	10	ft
Linear Length of trench Required	208	lf

TRENCH DESIGN - Lot 23

INITIAL SYSTEM					
T-1-1	LENGTH	62.5 ft	T-1-2	LENGTH	62.5 ft
	GROUND ELEVATION	390.0		GROUND ELEVATION	388.0
	INVERT ELEVATION	387.5		INVERT ELEVATION	385.5
	MAX BOTTOM ELEVATION	382.0		MAX BOTTOM ELEVATION	380.0
1ST REPLACEMENT SYSTEM					
T-2-1	LENGTH	93.8 ft	T-2-2	LENGTH	93.8 ft
	GROUND ELEVATION	386.3		GROUND ELEVATION	384.5
	INVERT ELEVATION	383.8		INVERT ELEVATION	382.0
	MAX BOTTOM ELEVATION	378.3		MAX BOTTOM ELEVATION	376.5
2ND REPLACEMENT SYSTEM					
T-3-1	LENGTH	52.1 ft	T-3-2	LENGTH	52.1 ft
	GROUND ELEVATION	383.9		GROUND ELEVATION	383.0
	INVERT ELEVATION	381.4		INVERT ELEVATION	380.5
	MAX BOTTOM ELEVATION	375.9		MAX BOTTOM ELEVATION	375.0
T-3-3	LENGTH	52.1 ft	T-3-4	LENGTH	52.1 ft
	GROUND ELEVATION	383.0		GROUND ELEVATION	381.7
	INVERT ELEVATION	380.5		INVERT ELEVATION	379.2
	MAX BOTTOM ELEVATION	375.0		MAX BOTTOM ELEVATION	373.7

Approved Septic System Plan
 Howard County Health Department
 2000-gallon Septic Tank
 to Gravity Distribution
 for 6-bedroom SFD
Brink
 Date 8/30/21

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

2021.08.12 12:41:31 -04'00

OWNER:
 PALANIVELU & SUMANTHI SRINIVASAN
 4521 VINTER WAY
 ELLICOTT CITY, MD 21043
 717-464-9060

BUILDER:
 KEYSTONE CUSTOM HOMES, INC.
 227 GRANITE RUN DR.
 SUITE 100
 LANCASTER, PA 17601
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PROJECT: MYRTUE PROPERTY LOT 23

LOCATION: TAX MAP: 10, GRID: 24, PARCEL: 225, ZONED: RC-DEO
 1951 DAVIS BRANCH RD, WOODSTOCK, MD 21163
 6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352579

TITLE: ONSITE SEWAGE DISPOSAL PLAN

HOUSE TYPE: CUSTOM - KEYSTONE HOMES

DATE:	AUGUST, 2021	PROJECT NO.	2099
SCALE:	AS SHOWN	DRAWING	2 OF 2

Submitted w/OSDS plan
 Not for approval of BP

The user hereby agrees to indemnify and hold the Architect harmless for any and all claims, damages, losses, and expenses, including reasonable attorneys' fees, that may be asserted against or incurred by the Architect in connection with the performance of its professional services under this contract, whether or not such claims, damages, losses, and expenses are caused in whole or in part by the negligence of the Architect. This limitation shall not apply to claims for bodily injury, death, or property damage, or to claims for which the Architect is specifically liable under applicable law.

227 GRANITE RUN DRIVE, SUITE 100
 LANCASTER, PENNSYLVANIA 17601
 TEL: (717) 464-9060 • FAX: (717) 464-9046
 www.KeystoneCustomHomes.com



KEYSTONE CUSTOM HOMES, INC.

PROJECT NO: MRS023
 MODEL: PALANIVELU / SRINIVASAN
 DATE: JUNE 10 2021
 SCALE: AS NOTED
 DRAWN BY: T. HARRIS
 SHEET NO: A10
 PAGE: ads 30



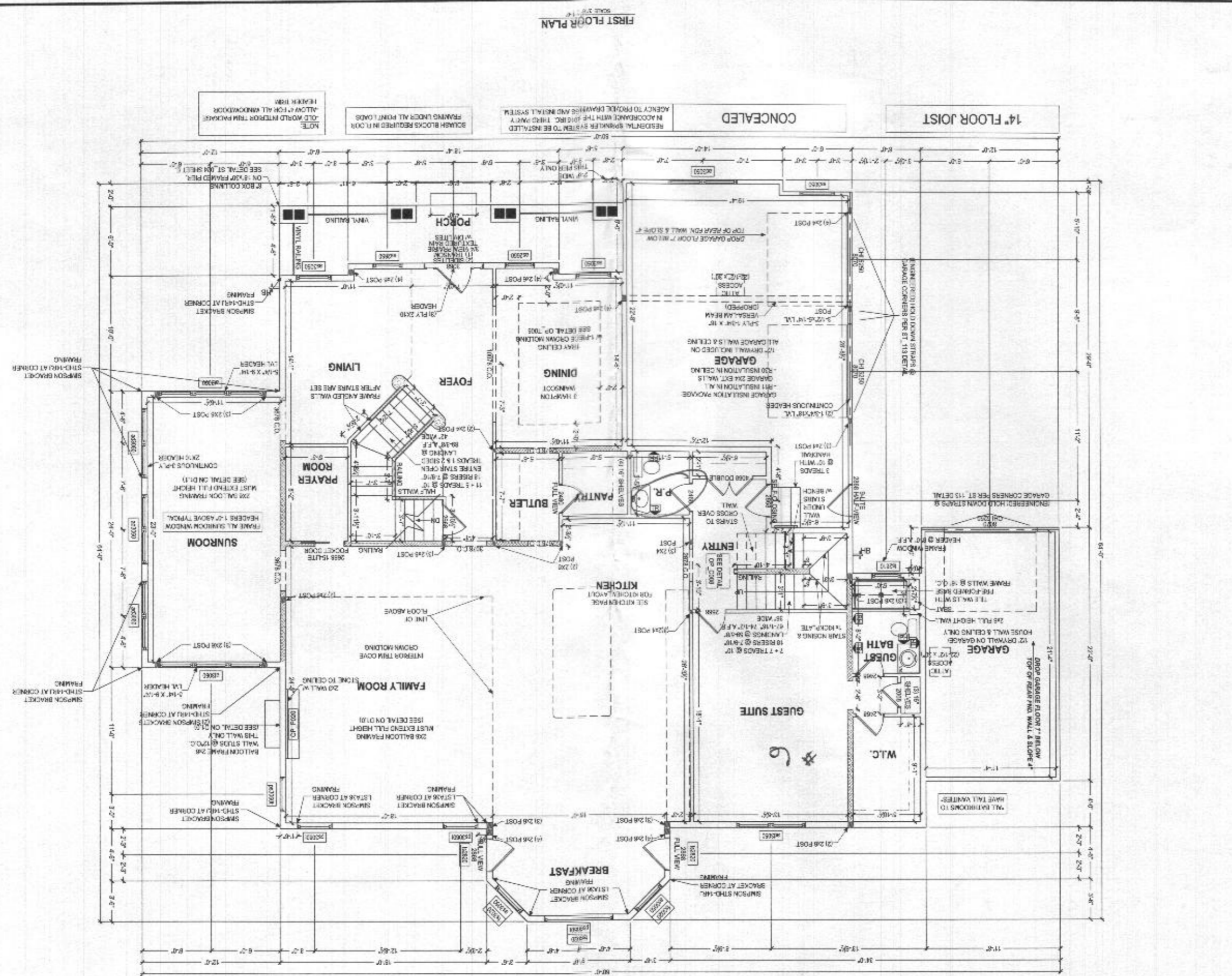
FRONT ELEVATION
 SCALE: 1/4" = 1'-0"

PLO
 SHEET NO.
 1-44-915
 DATE: 11/10/21
 PROJECT: MRS023
 CLIENT: TALANIVILLI/SRINIVASAN

KEYSTONE CUSTOM HOMES, INC.


227 GRANITE RUN DRIVE, SUITE 100
 LANCASTER, PENNSYLVANIA 17601
 PH: (717) 464-9060 FAX: (717) 464-9046
 www.keystonecustomhomes.com

ALL EXTERIOR WALLS ARE 20" CMU WITH 2" RIGID INSULATION. INTERIOR WALLS ARE 5/8" GYP BOARD ON 2" X 4" STUDS. CEILING IS 5/8" GYP BOARD ON 2" X 4" RAFTERS. FLOORING IS 3/4" OSB ON 2" X 8" JOISTS. ROOFING IS 1/2" OSB ON 2" X 12" RAFTERS.



FRAMING POST	■
2" X 8" TRIM WALL	▬
INTERIOR PART WALL	▬
EXTERIOR PART WALL	▬
20" CMU WITH 2" RIGID INSULATION	▬
5/8" GYP BOARD ON 2" X 4" STUDS	▬
5/8" GYP BOARD ON 2" X 4" RAFTERS	▬

ALL EXTERIOR WALLS ARE 20" CMU WITH 2" RIGID INSULATION. INTERIOR WALLS ARE 5/8" GYP BOARD ON 2" X 4" STUDS. CEILING IS 5/8" GYP BOARD ON 2" X 4" RAFTERS. FLOORING IS 3/4" OSB ON 2" X 8" JOISTS. ROOFING IS 1/2" OSB ON 2" X 12" RAFTERS.

FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"

CONCEALED
 14" FLOOR JOIST
 RESIDENTIAL SPARKLET SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE IBC. THIRD PARTY AGENCY TO PROVIDE DRAWINGS AND INSTALL SYSTEM.
 SQUARE BLOCKS REQUIRED IN CONFORMANCE WITH THE IBC. THIRD PARTY AGENCY TO PROVIDE DRAWINGS AND INSTALL SYSTEM.
 NOTE: ALL INTERIOR TRIM PACKAGES SHALL BE FOR ALL WINDOW/S DOOR/HEADERS.

