



**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](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 10-8-21 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 570189

APPROVAL DATE: 12/14/21 **PERMIT: CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 18415 Hidden Creek Way

SUBDIVISION: Windsor Forest Knolls

LOT: 16

TAX ID:

04-373324

CONTRACTOR: Farm & Home Excavating

EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: 901 Driver Road

PHONE: 410-984-0189

PROPERTY OWNER: Keystone Custom Homes

EMAIL: \_\_\_\_\_

OWNER ADDRESS: 227 Granite Run Dr.

PHONE: 717-464-9060

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER: Mayer Bros

PUMP MODEL: Zoeller, Model 371

PUMP SIZE

1/3 Hp

PUMP TANK CAPACITY: 2000

DISTRIBUTION SYSTEM:  GRAVITY

PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>156</u>	INLET DEPTH: <u>2</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7</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: Robert Freemon

ISSUE DATE: 10-8-21

EXPIRATION DATE: 10-8-22

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 DOWNGRAIENT 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 E21004334

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

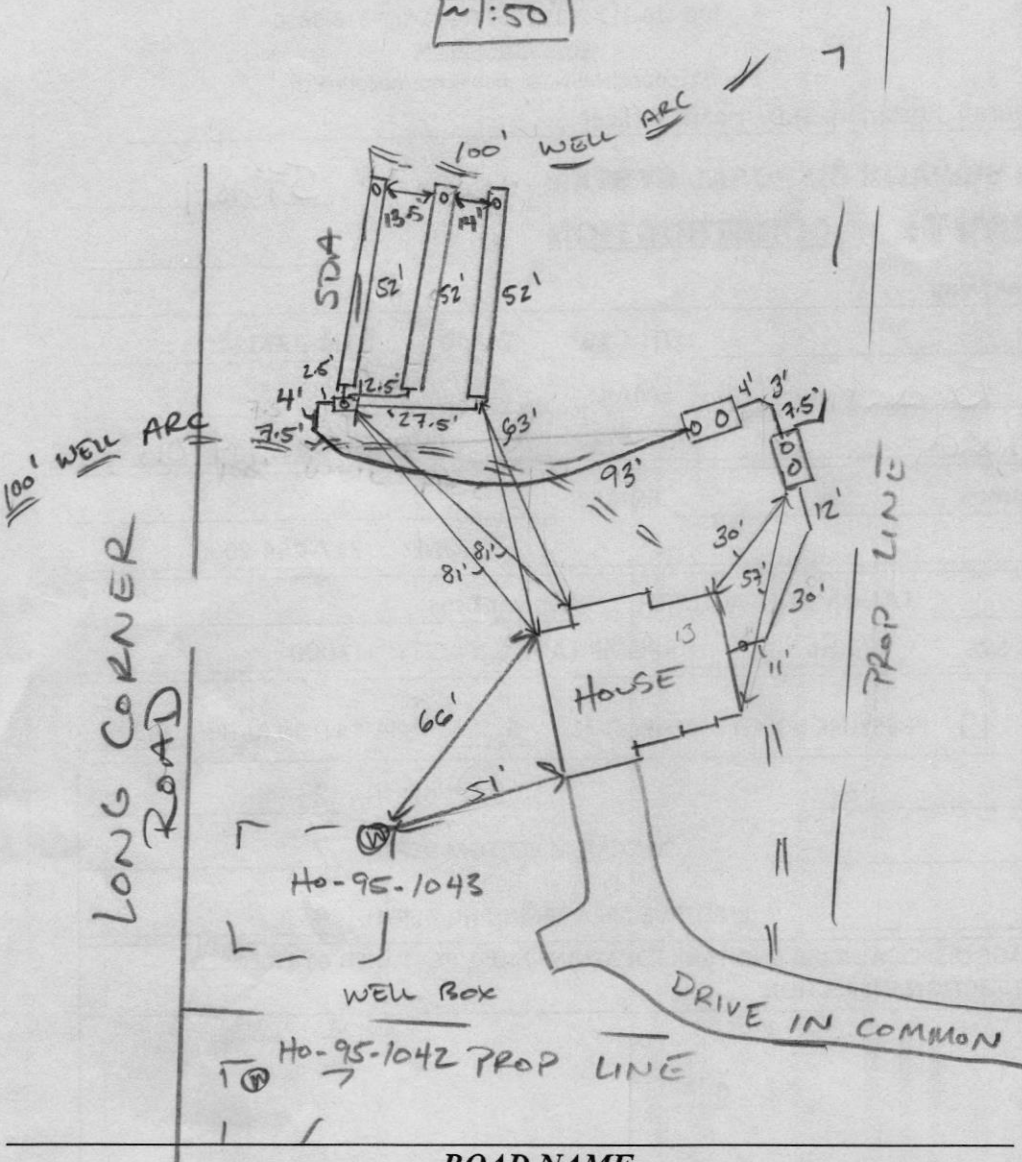
**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.**

**PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.**

**CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

NOT TO SCALE

1:50



ROAD NAME  
HIDDEN CREEK WAY

**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3'	2'	7'
NUMBER OF TRENCHES		3
TOTAL LENGTH		156 F
ABSORPTION AREA		458 SF + 3' SIDE WALL
DISTRIBUTION BOX LEVEL		PUMP
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	2'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT/BACK
6" PORT LOC	
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	09/21/2021
PUMP/SEPTIC TANK LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	3'
BAFFLES	-
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	-
DATE ON LID	10/01/2021

PRE-CONSTRUCTION:

11/09/2021 LAID OUT 2X 78' TRS-Ⓟ

INSTALLATION:

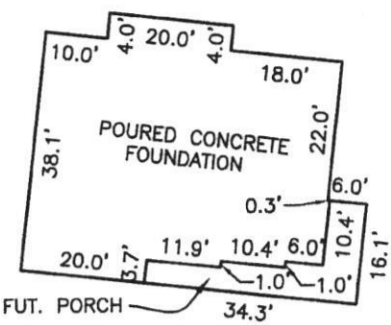
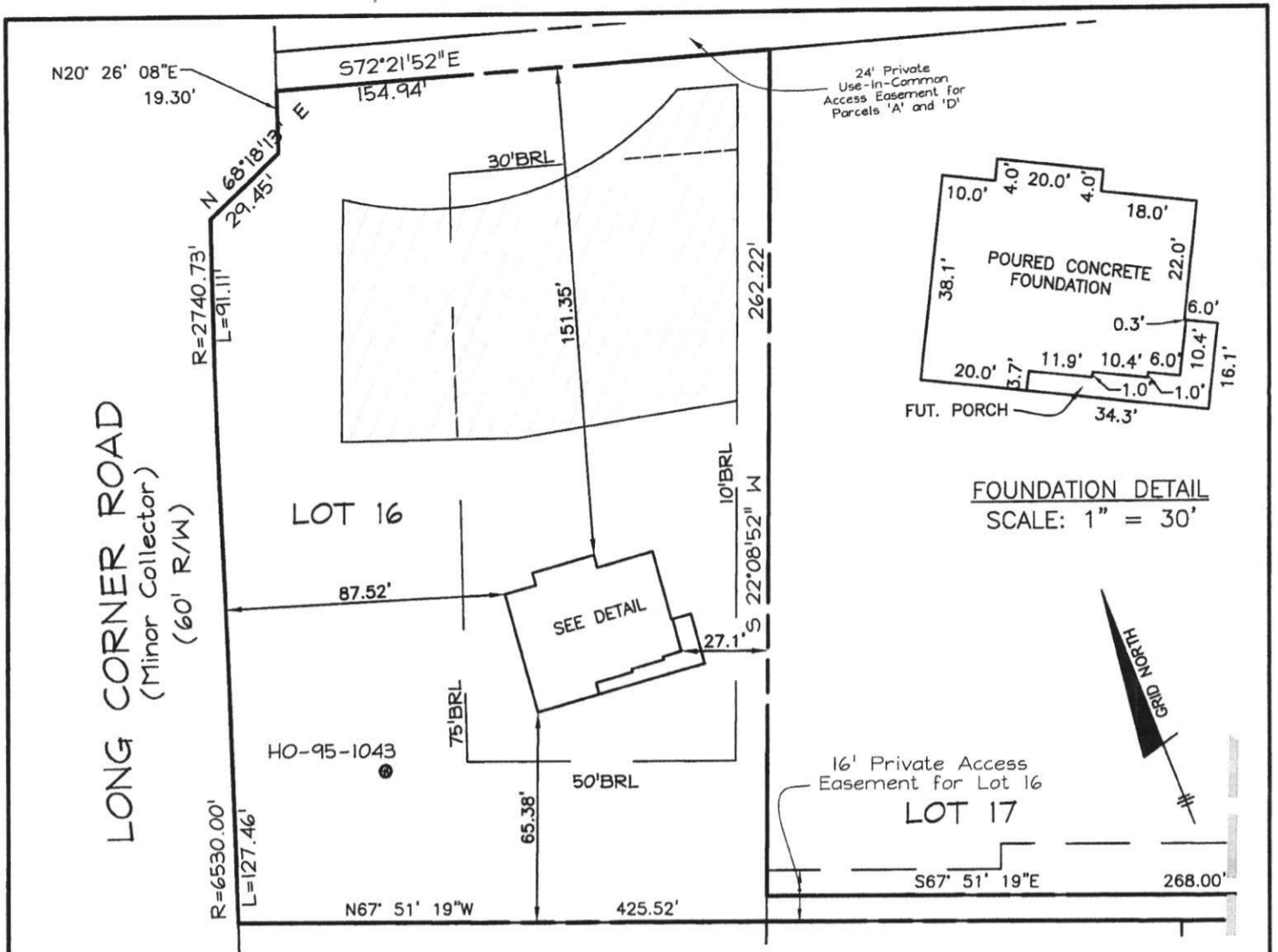
11/10/2021 INSTALLED TANK AND SENDER LINE. Ⓟ 11/18/2021 (AM) PUMP TANK SET. INSTALLING FORCE MAIN AND TRENCHES. Ⓟ (PM) TRENCHES COMPLETE, STIC INSTALLED. Ⓟ 11/23/2021 5' NOT INSTALLED FOR P/A. REINSPECT. Ⓟ 12/14/21 Alarm and pump obs on different circuits in basement. Alarm obs to function, located in basement. Septic pump obs to function with flow in d-box (ST)

FINAL INSPECTOR

*Susan Thomas*

DATE OF APPROVAL

12/14/21



FOUNDATION DETAIL  
SCALE: 1" = 30'

TOP OF FOUNDATION WALL = 806.4'  
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

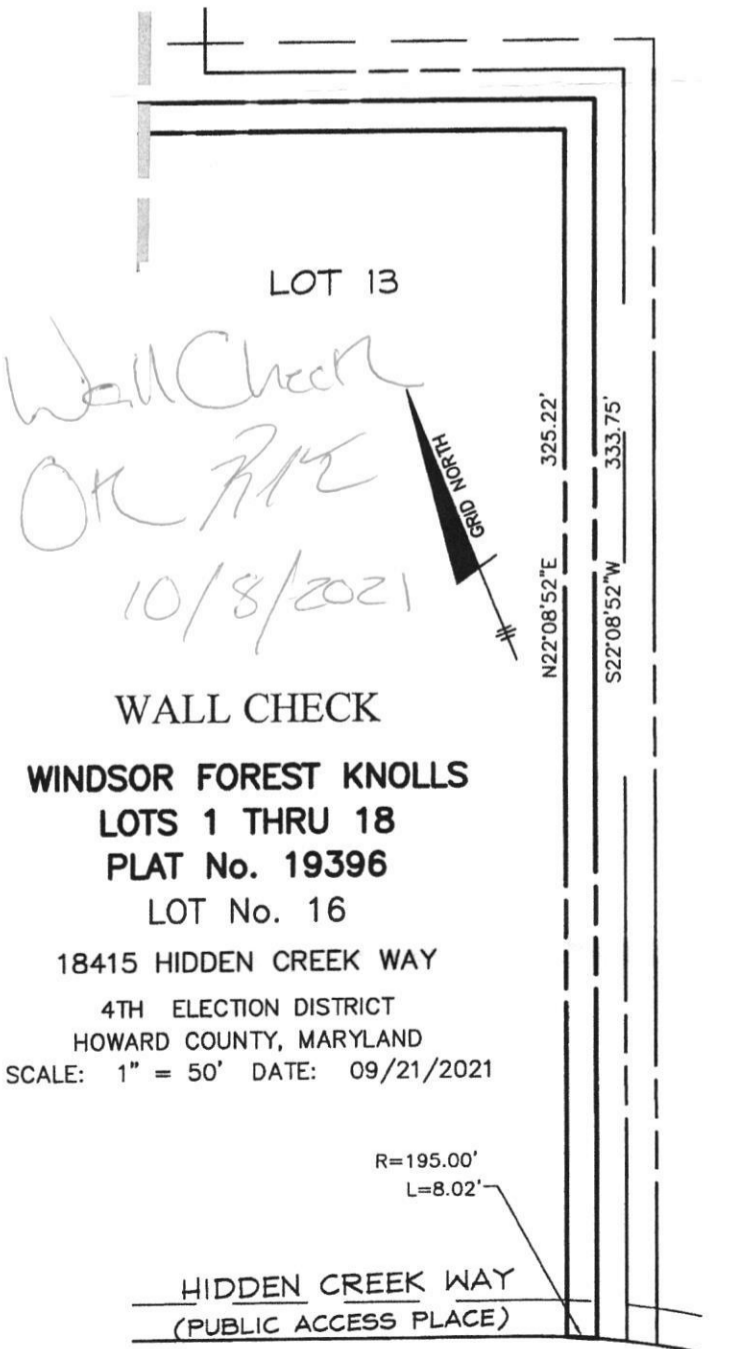
**SURVEYOR'S CERTIFICATE**

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 09/21/2021.

*Donald A. Mason* 9/23/22  
DONALD A. MASON  
PROFESSIONAL LAND SURVEYOR  
MARYLAND REG. No. 21320

FEMA FIRM No. 24027C0010D  
ZONE: X  
DATED: 11/6/2013

FIELD OBS. BY PJ  
COMP. BY EWF  
DRAWN BY EWF

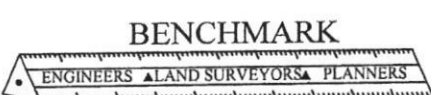


**WALL CHECK**

**WINDSOR FOREST KNOLLS**  
LOTS 1 THRU 18  
PLAT No. 19396  
LOT No. 16  
18415 HIDDEN CREEK WAY  
4TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: 1" = 50' DATE: 09/21/2021

R=195.00'  
L=8.02'

HIDDEN CREEK WAY  
(PUBLIC ACCESS PLACE)

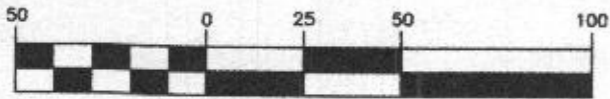


**ENGINEERING, INC.**

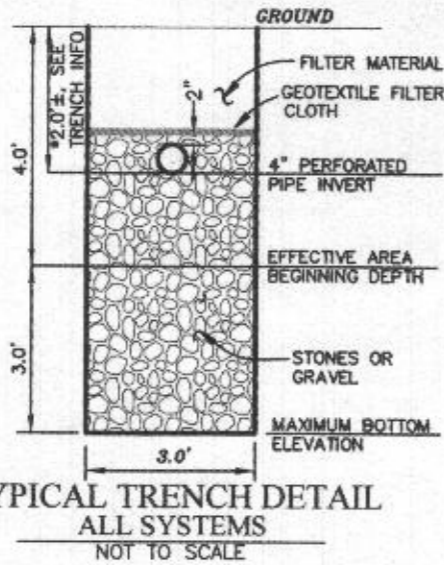
8480 BALTIMORE NATIONAL PIKE SUITE 315  
ELLCOTT CITY, MARYLAND 21043  
(P) 410-465-8105 (F) 410-465-6644

**LEGEND**

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

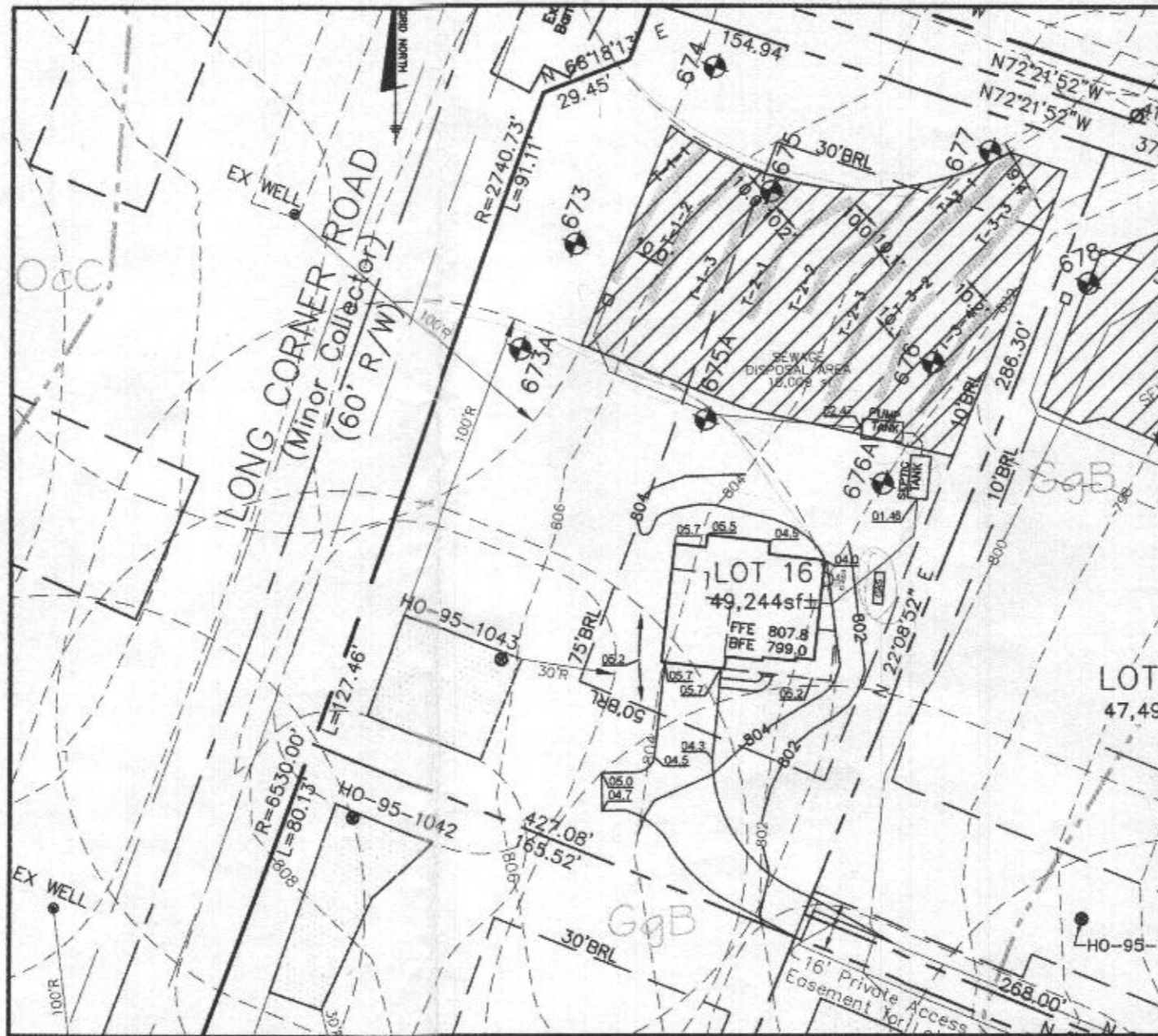


(IN FEET)  
1 inch = 50 ft.



**GENERAL NOTES**

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR WINDSOR FOREST KNOLLS, PLAT NUMBER 19395. REFER TO THE PLAT FOR LOT DIMENSIONS, LOT AREA, ALL EASEMENTS AND CONDITIONS.
2. THE EXISTING WELL SHOWN ON THIS PLAN (HO-95-1043) HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING INC. JULY 2020 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 BASED ON FIELD RUN TOPOGRAPHY BY C.B. MILLER & ASSOCIATES IN APRIL, 2002, AND WAS SUPPLEMENTED BY FIELD RUN TOPOGRAPHY BY BENCHMARK ENGINEERING, INC. JULY 2020.
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.

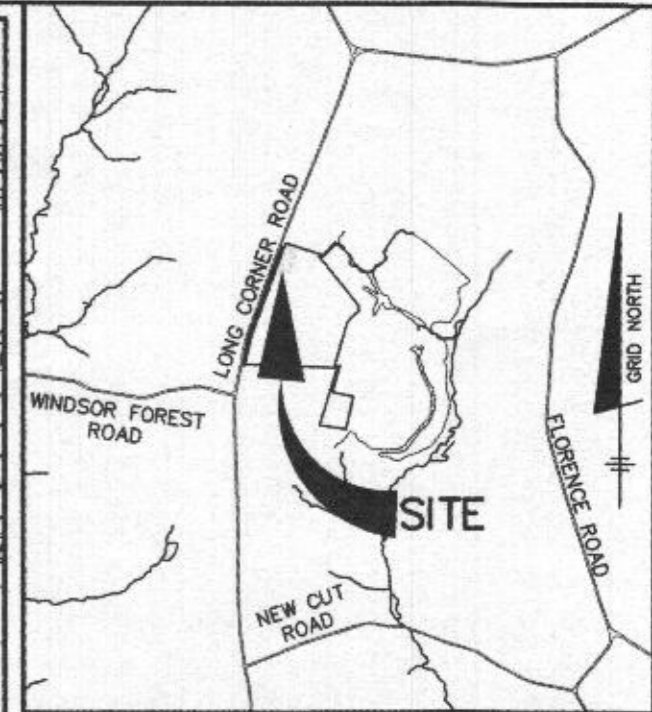


**PLAN VIEW**

1" = 50'

NOTE: CELLAR NOT SERVICED VIA GRAVITY, PUMP REQ'D FOR BASEMENT SERVICE

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. THE PUMP TANK WILL BE A 2000 GALLON ONE COMPARTMENT TANK.
11. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
12. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
13. 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.



**VICINITY MAP**

SCALE: 1" = 2000'

Approved Septic System Plan  
Howard County Health Department

*[Signature]* 6/16/2021  
Signature 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.

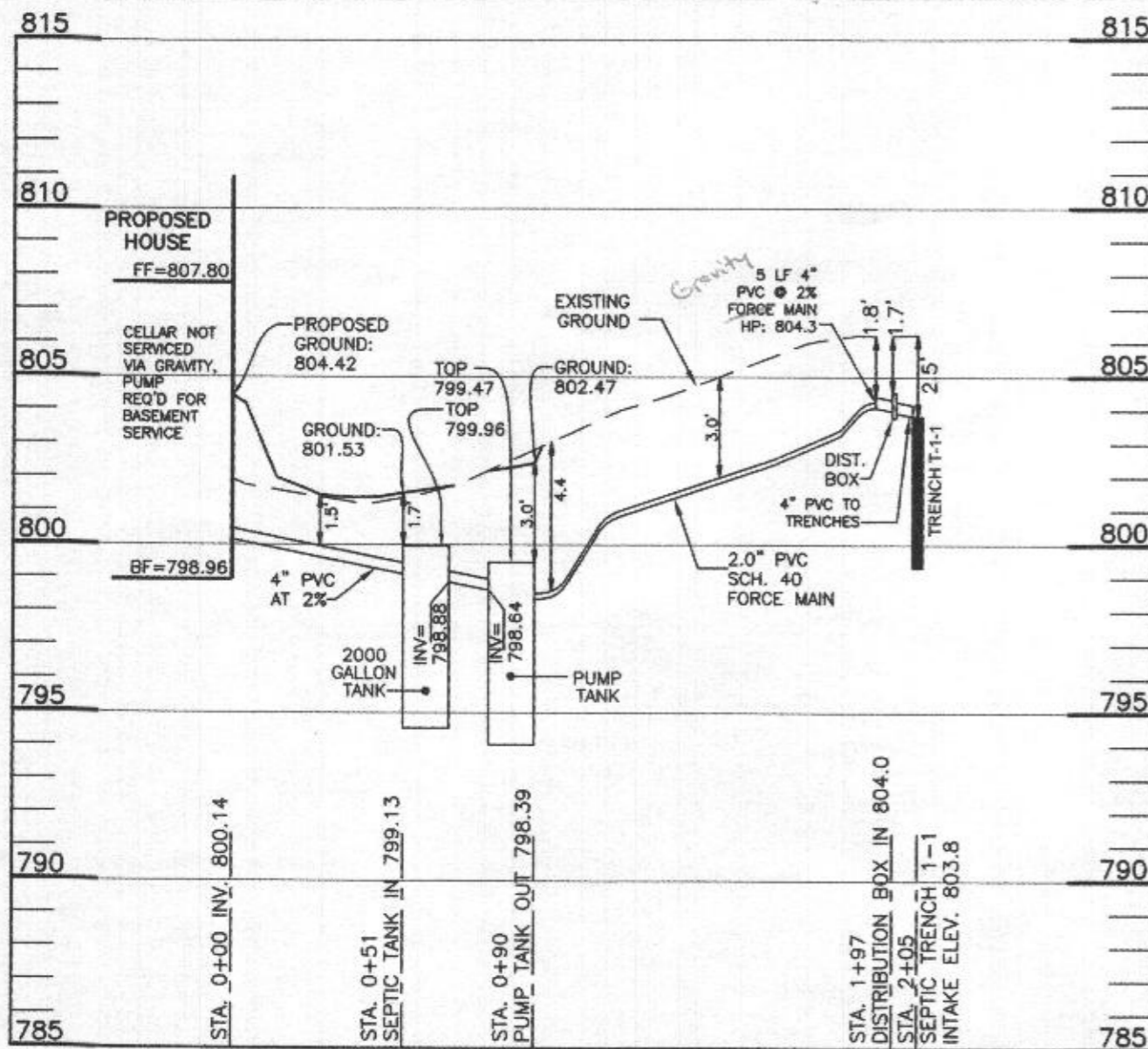


3 May 21

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-CIVLENGINEERING.COM

PROJECT: <b>WINDSOR FOREST KNOLLS LOT 16</b>	
LOCATION: TAX MAP: 6 - GRID: 16 - PARCEL: 57 18415 HIDDEN CREEK WAY, TAX ID# 04-373324 ELECTION DISTRICT NO. 4 - HOWARD COUNTY, MARYLAND	
TITLE: <b>ONSITE SEWAGE DISPOSAL PLAN</b>	
HOUSE TYPE: <b>CUSTOM - KEYSTONE HOMES</b>	
DATE: MAY, 2021	PROJECT NO. 2986
SCALE: AS SHOWN	DRAWING 1 OF 4



**LOT 16 SEPTIC PROFILE**  
SCALE: 1"=50' HORIZ., 1"=5' VERT.

INITIAL SYSTEM		
Number of Bedrooms	5	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	4.0	ft
Bottom Max Depth	7.0	ft
Design Flow	750	gpd
Drainage Field square footage	937.5	sf
Sidewall Reduction Credit	0.50	
Trench width	3	ft
Effective Area Depth	3	ft
Trench Spacing	10	ft
Trench Length Required	156	lf

1ST REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	4.0	ft
Bottom Max Depth	7.0	ft
Design Flow	750	gpd
Drainage Field square footage	937.5	sf
Sidewall Reduction Credit	0.50	
Trench width	3	ft
Effective Area Depth	3	ft
Trench Spacing	10	ft
Trench Length Required	156	lf

2ND REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	4.0	ft
Bottom Max Depth	7.0	ft
Design Flow	750	gpd
Drainage Field square footage	938	sf
Sidewall Reduction Credit	0.50	
Trench width	3	ft
Effective Area Depth	3	ft
Trench Spacing	10	ft
Trench Length Required	156	lf

TRENCH DESIGN - Lot 16					
INITIAL SYSTEM					
T-1-1	LENGTH	52.1 ft	T-1-2	LENGTH	52.1 ft
	GROUND ELEVATION	806.3		GROUND ELEVATION	805.9
	INVERT ELEVATION	803.8		INVERT ELEVATION	803.4
	MAX BOTTOM ELEVATION	799.3		MAX BOTTOM ELEVATION	798.9
T-1-3	LENGTH	52.1 ft		LENGTH	52.1 ft
	GROUND ELEVATION	805.4		GROUND ELEVATION	805.4
	INVERT ELEVATION	803.4		INVERT ELEVATION	803.4
	MAX BOTTOM ELEVATION	798.4		MAX BOTTOM ELEVATION	798.4

1ST REPLACEMENT SYSTEM					
T-2-1	LENGTH	52.1 ft	T-2-2	LENGTH	52.1 ft
	GROUND ELEVATION	804.9		GROUND ELEVATION	804.3
	INVERT ELEVATION	802.9		INVERT ELEVATION	802.3
	MAX BOTTOM ELEVATION	797.9		MAX BOTTOM ELEVATION	797.3
T-2-3	LENGTH	52.1 ft		LENGTH	52.1 ft
	GROUND ELEVATION	803.6		GROUND ELEVATION	803.6
	INVERT ELEVATION	801.6		INVERT ELEVATION	801.6
	MAX BOTTOM ELEVATION	796.6		MAX BOTTOM ELEVATION	796.6

2ND REPLACEMENT SYSTEM					
T-3-1	LENGTH	40 ft	T-3-2	LENGTH	40 ft
	GROUND ELEVATION	803.6		GROUND ELEVATION	803.0
	INVERT ELEVATION	801.6		INVERT ELEVATION	801.0
	MAX BOTTOM ELEVATION	796.6		MAX BOTTOM ELEVATION	796.0

T-3-3	LENGTH	40 ft	T-3-4	LENGTH	40 ft
	GROUND ELEVATION	802.9		GROUND ELEVATION	802.2
	INVERT ELEVATION	800.9		INVERT ELEVATION	800.2
	MAX BOTTOM ELEVATION	795.9		MAX BOTTOM ELEVATION	795.2

SEPTIC INVERT CHART - Lot 16	
INV @ HOUSE	800.1
GROUND @ HOUSE	804.4
INV IN SEPTIC TANK	799.1
INV OUT SEPTIC TANK	798.9
TOP OF SEPTIC TANK	800.0
GROUND OVER SEPTIC TANK	801.5
INV IN PUMP TANK	798.6
INV OUT PUMP TANK	798.4
TOP OF PUMP TANK	799.5
GROUND OVER PUMP TANK	802.5
INV IN DIST BOX	804.0
INV OUT DIST BOX	803.8
GROUND AT DIST BOX	806.2

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.



HEALTH DEPARTMENT SPEC SHEET INFORMATION - Lot 16			
System	Application Rate	Effective Depth	Bottom Depth
1st System	0.8	4.0	7.0
2nd System	0.8	4.0	7.0
3rd System	0.8	4.0	7.0

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

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WWW.BEI-CIVILENGINEERING.COM

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LOCATION: TAX MAP: 6 - GRID: 16 - PARCEL: 57 18415 HIDDEN CREEK WAY, TAX ID# 04-373324 ELECTION DISTRICT NO. 4 - HOWARD COUNTY, MARYLAND	
TITLE: ONSITE SEWAGE DISPOSAL PLAN	
HOUSE TYPE: CUSTOM - KEYSTONE HOMES	
DATE: MAY, 2021	PROJECT NO. 2986
SCALE: AS SHOWN	DRAWING 2 OF 4

**Pumping Station**

Diameter of Force Main and Manifold = 2" PVC SCH. 40  
 Length of Force Main = 107 feet SCH.40 gallons/100 feet = 17.4 Table 4.2

Volume of Main = 18.6 gallons

Total Volume = 18.6 gallons

Minimum Dose must be greater than 1/6 of the design flow 125 gallons

Minimum Dose must be greater than the volume of the main 19 gallons

Use minimum dose of 130 gallons okay Doses per Day = 5.789231

**Size Pump Chamber**

Pump chamber must be able to hold one dose and one days design flow

One day Capacity = 750 gallons  
 Dose = 130 gallons  
 Totals = 880 gallons

Use 2,000 gallon pump tank

Tank Dimensions:	Exterior	Interior			
Length:	13.75 feet	Length:	13.08 feet	Walls:	0.33 feet
Width:	6.25 feet	Width:	5.58 feet	Bottom:	0.33 feet
Height:	5.42 feet	Height:	4.67 feet	Top:	0.42 feet
		Area:	73.06 sf	Bottom to	
		Volume:	340.89 cf	Inlet:	4.58 feet

**Sizing the Pump**

Flow: runtime = 5.000 minutes  
 rate = 26.00 gallons/minute

**Design Head:**

Design Head = Static Head + Friction Head

Static Head = highest elevation of main - pump off elevation

Highest component of system = 804.3 Main HP  
 Pump off elevation = 795.75  
 Static Head = 8.55 feet

Friction Head = Head loss due to pipe friction

2.0" pipe =	107 feet		
45° bends	3 loss for bend	12 feet	per table 4.3
90° bends	3 loss for bend	15 feet	per table 4.3
Gate Valve	0 loss for tee	0 feet	per table 4.3

Friction loss per table 4.4 = 1.188 (ft/100 ft)

Equivalent Length = 134 Friction loss 1.59 feet

Total Friction Head = 1.59

Design Head = 10.14 feet

**Pump Requirements:**

Performance = 26.00 gpm  
 Head of Water = 10.14 feet of head

**Pump Selection:** Zoeller Pump Company, Model 371  
 1/3 horse power

**Pump Flow Rate = 33.60 gallons/minute** per rating curve. Run time: 3.87 Minutes  
 TDH analysis 11.11 ft  
 Between design and curve? Yes

**Design Pump Chamber**

Ground over Tank = 802.47 Cover = 3.00 ft  
 Top of Tank = 799.47  
 Invert of Tank = 794.38  
 6" Riser = 0.50 feet  
 Pump Height = 0.84 feet

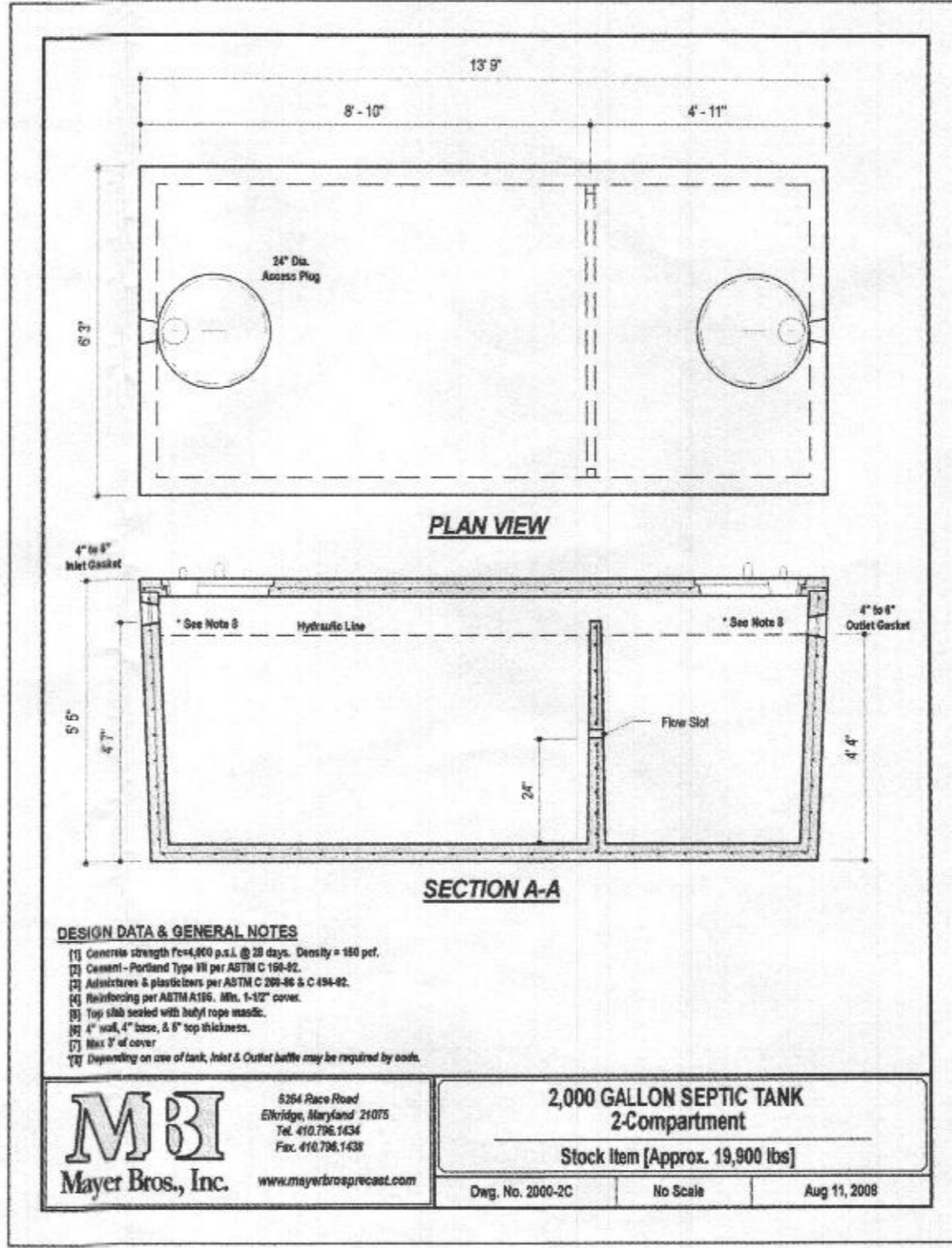
Min. Pump off = 795.72  
 Selected Pump off = 795.75

Dose = 17.4 cf  
 Area of Pit = 73.06 sf

Pump on dist. = 0.24  
 Pump on Elev. = 795.99

Distance between Pump on and Highwater Alarm = 0.5 feet  
 Highwater Alarm Elevation = 796.49

Dist. for day stored above alarm 1.37  
 Minimum Inlet Elev. = 797.86  
 Tank Inlet = 798.63 Okay  
 Dist. Alarm to Inlet = 2.14 Okay



**DESIGN DATA & GENERAL NOTES**

- Concrete strength f'c=4,000 p.s.i. @ 28 days. Density = 150 pcf.
- Cement - Portland Type III per ASTM C 150-92.
- Admixtures & plasticizers per ASTM C 200-96 & C 494-92.
- Reinforcing per ASTM A196. Min. 1-1/2" cover.
- Top slab sealed with butyl rope mastic.
- 4" wall, 4" base, & 6" top thickness.
- Max 3" of cover.
- Depending on use of tank, Inlet & Outlet baffles may be required by code.

**MBI**  
 Mayer Bros., Inc.  
 5264 Race Road  
 Elkridge, Maryland 21075  
 Tel. 410.796.1434  
 Fax. 410.796.1438  
 www.mayerbrosprecast.com

**2,000 GALLON SEPTIC TANK**  
**2-Compartment**  
 Stock Item [Approx. 19,900 lbs]

Dwg. No. 2000-2C No Scale Aug 11, 2008

SIGNATURE AND SEAL ARE FOR SEPTIC PROFILE AND CALCULATIONS ONLY, TANK, PUMP AND DETAILS WERE NOT DESIGNED OR REVIEWED BY THE ENGINEER.

**THIS PLAN IS FOR SEPTIC DESIGN ONLY**

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.

STATE OF MARYLAND  
 ALICE A. MILLER  
 No. 28376  
 PROFESSIONAL ENGINEER  
 3-May-21

SEE MANUFACTURER'S SPECIFICATIONS FOR DETAILS. EQUIVALENT FROM OTHER MANUFACTURERS CAN BE SUBSTITUTED.

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

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