

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: 12/22/2021 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 570887

APPROVAL DATE: 03/4/2022 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 18419 Hidden Creek Way

SUBDIVISION: Windsor Forest Knolls

LOT: 17 TAX ID: _____

CONTRACTOR: From Home Excavating

EMAIL: _____

CONTRACTOR ADDRESS: 901 Driver Road

PHONE: _____

PROPERTY OWNER: Keystone Custom Homes

EMAIL: _____

OWNER ADDRESS: 227 Granite Run Drive, Suite 100

PHONE: 717-464-9060

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER: MBI

PUMP MODEL: Zoeller 371-0002 PUMP SIZE 1/3

PUMP TANK CAPACITY: 2000

DISTRIBUTION SYSTEM: GRAVITY

PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE: 0.6

TRENCHES:	LINEAR FEET REQUIRED: <u>208</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: HANK OSWALD

ISSUE DATE: 05/14/2021

EXPIRATION DATE: 05/14/2022

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 21005702

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.



HOWARD COUNTY HEALTH DEPARTMENT

70887

DATE 12 / 22 / 2021

DS

Received From

Farm and Home Excavating Inc PHONE # 410-442-2139

- CASH
- CHECK

For Septic Permits - Windsor Forest Lot # 37 W
Myrtle Lots 25, 27, 30

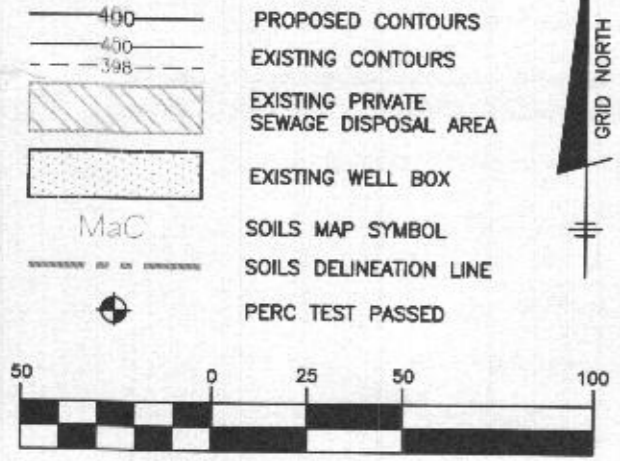
NO. 1884

~~2376.00~~ Two thousand & three seven six Dollars

\$ 2,376.00

Received By J King

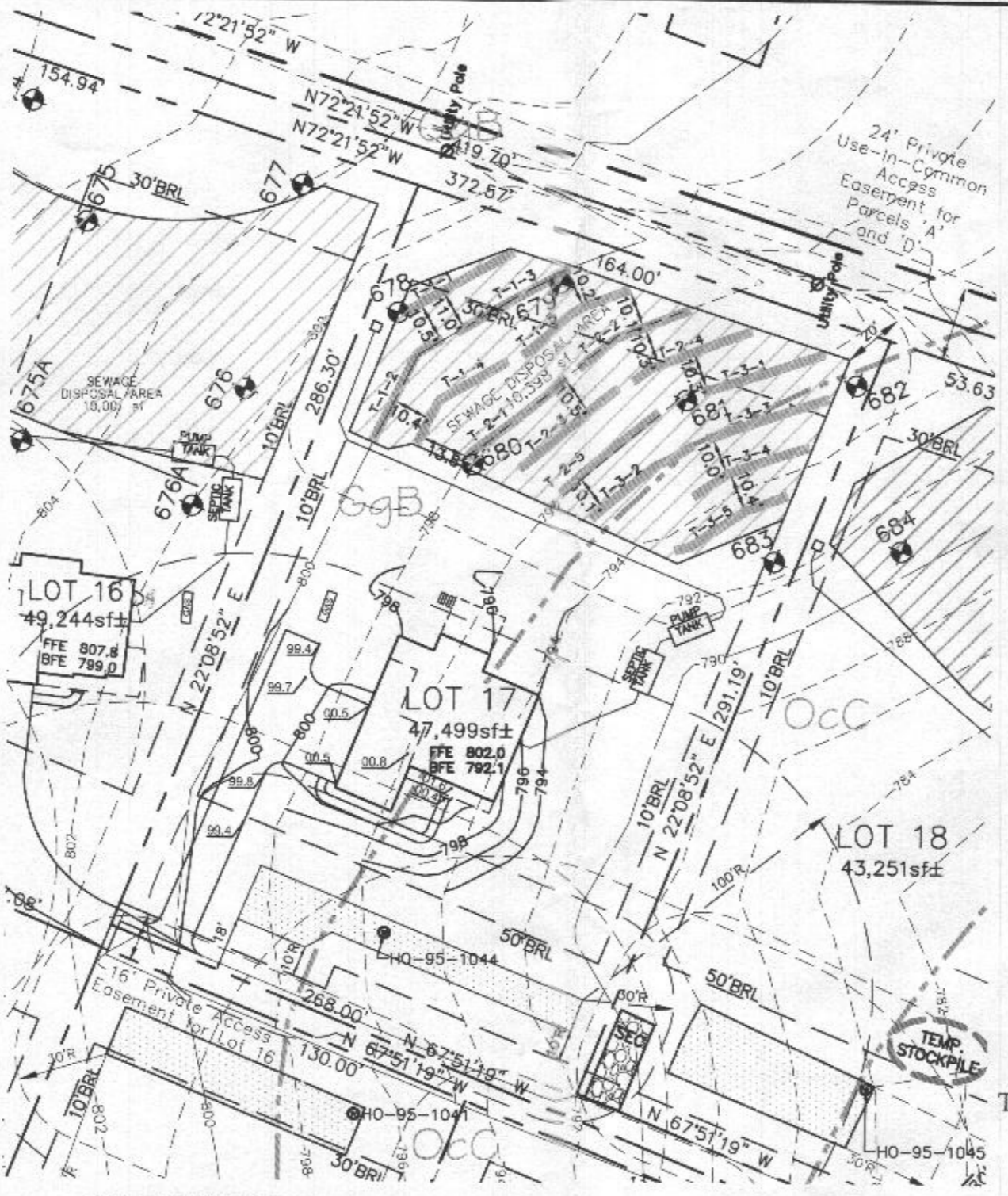
LEGEND



(IN FEET)
1 inch = 50 ft.

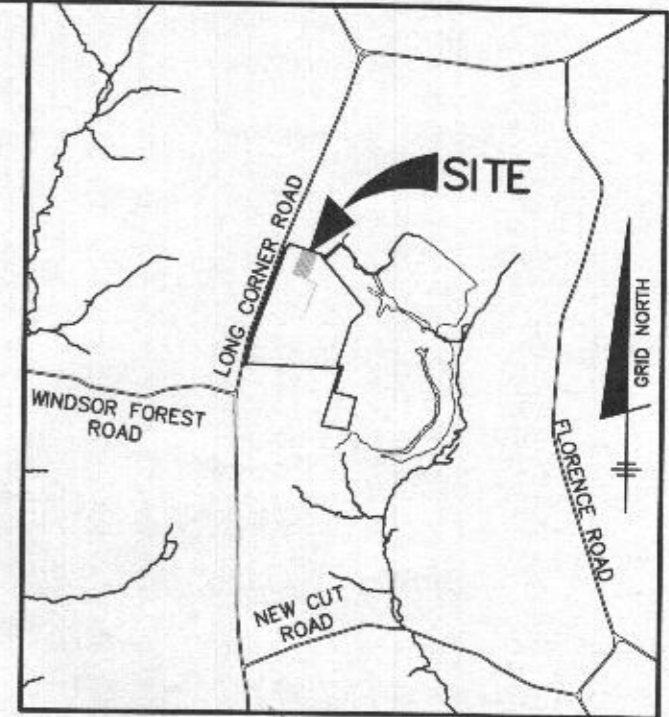
GENERAL NOTES

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-95-1044) 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.
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.

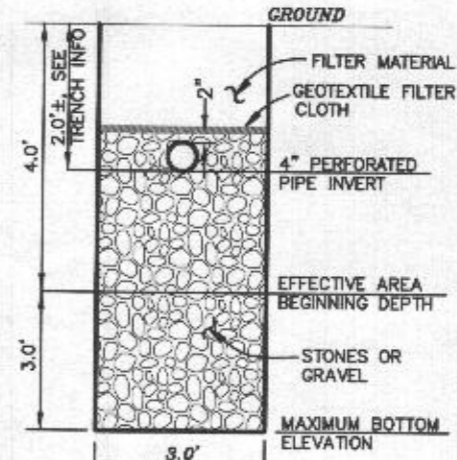


NOTE: CELLAR NOT SERVICED VIA GRAVITY, PUMP REQ'D FOR BASEMENT SERVICE

PLAN VIEW
1" = 50'



VICINITY MAP
SCALE: 1" = 2000'



TYPICAL TRENCH DETAIL
ALL SYSTEMS
NOT TO SCALE

Approved Septic System Plan
Howard County Health Department
Hank Oswald 5/14/21
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.



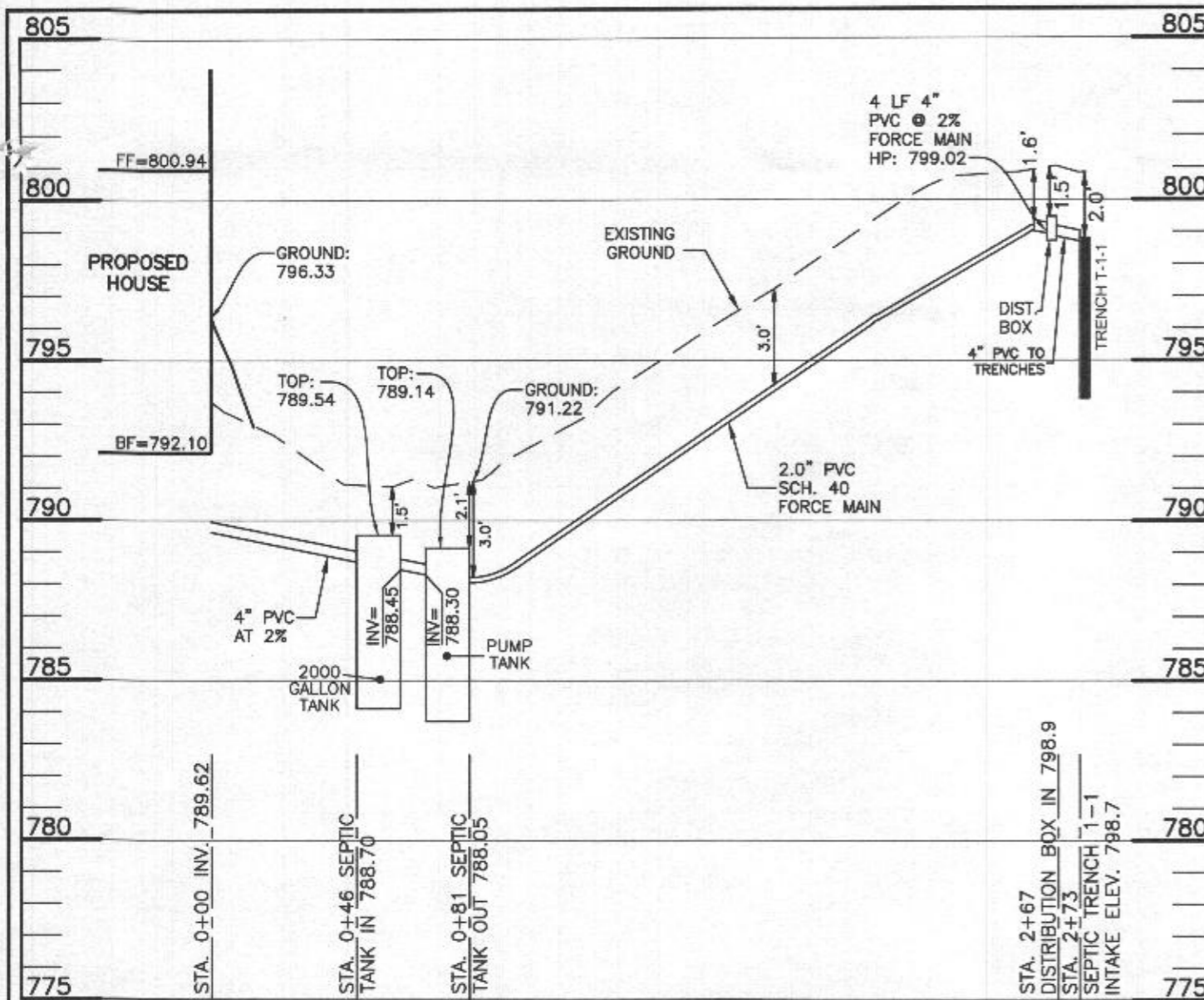
AAM-BEI

2021.04.28 20:39:35 -04'00

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) 410-485-8105 ▲ (F) 410-485-6644
WWW.BEI-CIVILENGINEERING.COM

PROJECT: WINDSOR FOREST KNOLLS LOT 17	
LOCATION: TAX MAP: 6 - GRID: 16 - PARCEL: 57 18419 HIDDEN CREEK WAY, TAX ID# 04-373332 ELECTION DISTRICT NO. 4 - HOWARD COUNTY, MARYLAND	
TITLE: ONSITE SEWAGE DISPOSAL PLAN	
HOUSE TYPE: CUSTOM - KEYSTONE HOMES	
DATE: APRIL, 2021	PROJECT NO. 2986
SCALE: AS SHOWN	DRAWING 1 OF 4



INITIAL SYSTEM		
Number of Bedrooms	5	
Application Rate	0.6	gpd/sf
Effective Area Beginning Depth	4.0	ft
Bottom Max Depth	7.0	ft
Design Flow	750	gpd
Drainage Field square footage	1250	sf
Sidewall Reduction Credit	0.50	
Trench width	3	ft
Effective Area Depth	3	ft
Trench Spacing	10	ft
Trench Length Required	208	lf

1ST REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	0.6	gpd/sf
Effective Area Beginning Depth	4.0	ft
Bottom Max Depth	7.0	ft
Design Flow	750	gpd
Drainage Field square footage	1250	sf
Sidewall Reduction Credit	0.50	
Trench width	3	ft
Effective Area Depth	3	ft
Trench Spacing	10	ft
Trench Length Required	208	lf

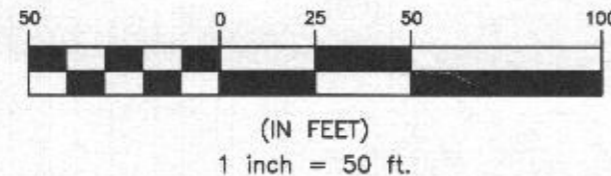
2ND REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	0.6	gpd/sf
Effective Area Beginning Depth	4.0	ft
Bottom Max Depth	7.0	ft
Design Flow	750	gpd
Drainage Field square footage	1250	sf
Sidewall Reduction Credit	0.50	
Trench width	3	ft
Effective Area Depth	3	ft
Trench Spacing	10	ft
Trench Length Required	208	lf

TRENCH DESIGN - Lot 17					
INITIAL SYSTEM					
T-1-1	LENGTH	41.7 ft	T-1-2	LENGTH	41.7 ft
	GROUND ELEVATION	800.8		GROUND ELEVATION	800.0
	INVERT ELEVATION	798.7		INVERT ELEVATION	798.0
	MAX BOTTOM ELEVATION	793.8		MAX BOTTOM ELEVATION	793.0
T-1-4	LENGTH	41.7 ft	T-1-5	LENGTH	41.7 ft
	GROUND ELEVATION	799.1		GROUND ELEVATION	799.0
	INVERT ELEVATION	797.1		INVERT ELEVATION	797.0
	MAX BOTTOM ELEVATION	792.1		MAX BOTTOM ELEVATION	792.0
1ST REPLACEMENT SYSTEM					
T-2-1	LENGTH	41.7 ft	T-2-2	LENGTH	41.7 ft
	GROUND ELEVATION	798.0		GROUND ELEVATION	798.0
	INVERT ELEVATION	796.0		INVERT ELEVATION	796.0
	MAX BOTTOM ELEVATION	791.0		MAX BOTTOM ELEVATION	791.0
T-2-4	LENGTH	41.7 ft	T-2-5	LENGTH	41.7 ft
	GROUND ELEVATION	796.9		GROUND ELEVATION	796.1
	INVERT ELEVATION	794.9		INVERT ELEVATION	794.1
	MAX BOTTOM ELEVATION	789.9		MAX BOTTOM ELEVATION	789.1
2ND REPLACEMENT SYSTEM					
T-3-1	LENGTH	41.7 ft	T-3-2	LENGTH	41.7 ft
	GROUND ELEVATION	796.0		GROUND ELEVATION	795.2
	INVERT ELEVATION	794.0		INVERT ELEVATION	793.2
	MAX BOTTOM ELEVATION	789.0		MAX BOTTOM ELEVATION	788.2
T-3-4	LENGTH	41.7 ft	T-3-5	LENGTH	41.7 ft
	GROUND ELEVATION	794.3		GROUND ELEVATION	793.6
	INVERT ELEVATION	792.3		INVERT ELEVATION	791.6
	MAX BOTTOM ELEVATION	787.3		MAX BOTTOM ELEVATION	786.6

LOT 17 SEPTIC PROFILE
 SCALE: 1"=50' HORIZ., 1"=5' VERT.

SEPTIC INVERT CHART - Lot 17	
INV @ HOUSE	789.62
GROUND @ HOUSE	796.33
INV IN SEPTIC TANK	788.70
INV OUT SEPTIC TANK	788.45
TOP OF SEPTIC TANK	789.54
GROUND OVER SEPTIC TANK	791.04
INV IN PUMP TANK	788.30
INV OUT PUMP TANK	788.05
TOP OF PUMP TANK	789.14
GROUND OVER PUMP TANK	791.22
INV IN DIST BOX	798.94
INV OUT DIST BOX	798.84
GROUND AT DIST BOX	800.99

HEALTH DEPARTMENT SPEC SHEET INFORMATION - Lot 17			
System	Application Rate	Effective Depth	Bottom Depth
1st System	0.6	4.0	7.0
2nd system	0.6	4.0	7.0
3rd System	0.6	4.0	7.0



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 227 GRANITE RUN DR.
 SUITE 100
 LANCASTER, PA 17601
 717-464-9060

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 WWW.BEI-CIVILENGINEERING.COM

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

2021.04.28 20:40:46 -04'00

PROJECT: WINDSOR FOREST KNOLLS LOT 17	
LOCATION: TAX MAP: 6 - GRID: 16 - PARCEL: 57 18419 HIDDEN CREEK WAY, TAX ID# 04-373332 ELECTION DISTRICT NO. 4 - HOWARD COUNTY, MARYLAND	
TITLE: ONSITE SEWAGE DISPOSAL PLAN	
HOUSE TYPE: CUSTOM - KEYSTONE HOMES	
DATE: APRIL, 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 = 151 feet SCH 40 gallons/100 feet = 17.4 Table 4.2

Volume of Main = 31.5 gallons

Total Volume = 31.5 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 31 gallons

Use minimum dose of 130 gallons okay Doses per Day = 5.769231

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	Walls:	Bottom:	Top:	Bottom to Inlet:
Length:	13.75 feet	13.06 feet	0.33 feet	0.33 feet	0.42 feet	4.58 feet
Width:	6.25 feet	5.58 feet				
Height:	5.42 feet	4.67 feet				
Area:		73.05 sf				
Volume:		340.89 cf				

Sizing the Pump

Flow: runtime = 8.867 minutes
 rate = 15.00 gallons/minute

Design Head: Design Head = Static Head + Friction Head
 Static Head = highest elevation of main - pump off elevation
 Highest component of system = 799.02 Main HP
 Pump off elevation = 785.70
 Static Head = 13.32 feet
 Friction Head = Head loss due to pipe friction
 2.0" pipe = 181 feet
 45° bends 5 loss for bend 20 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 = 0.44 (ft/100 ft)
 Equivalent Length = 216 Friction loss 0.95 feet
 Total Friction Head = 0.95
 Design Head = 14.27 feet

Pump Requirements

Performance = 15.00 gpm
 Head of Water = 14.27 feet of head

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

Pump Flow Rate = 21.19 gallons/minute per rating curve. Run time: 6.14 Minutes
 TDH analysis 15.10 ft
 Between design and curve? Yes

Design Pump Chamber

Ground over Tank = 791.22 Cover = 2.08 ft
 Top of Tank = 789.14
 Invert of Tank = 784.05
 6" Riser = 0.75 feet
 Pump Height = 0.84 feet

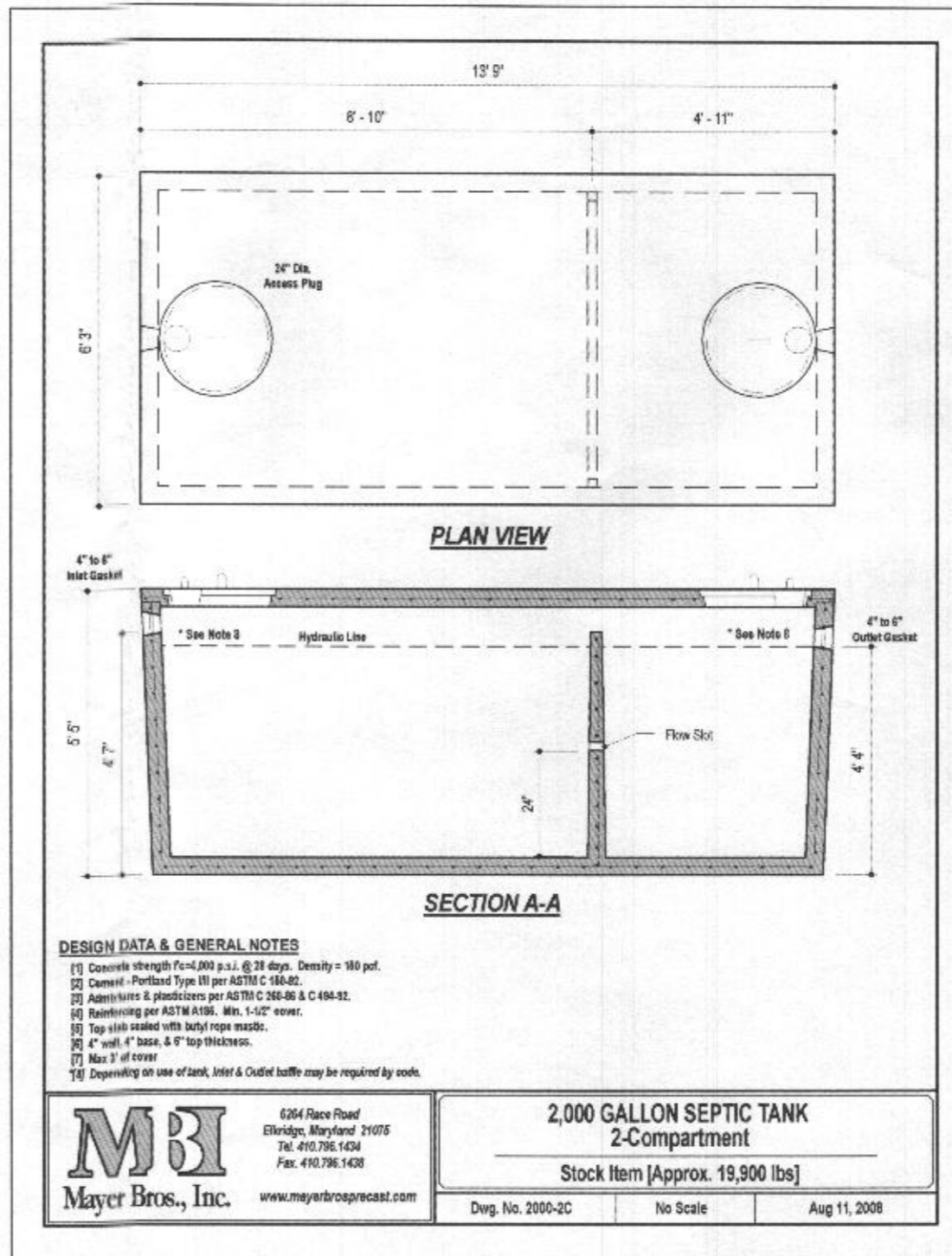
Min. Pump off = 785.64
 Selected Pump off = 785.70

Dose = 17.4 cf
 Area of Pit = 73.05 sf

Pump on dist. = 0.24
 Pump on Elev. = 785.94

Distance between Pump on and Highwater Alarm = 0.5 feet
 Highwater Alarm Elevation = 786.44

Dist. for day stored above alarm 1.37
 Minimum Inlet Elev. = 787.81
 Tank Inlet = 788.30 Okay
 Dist. Alarm to inlet = 1.85 Okay



MBI
 Mayer Bros., Inc.
 6264 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

SEPTIC INVERT CHART - Lot 17	
INV @ HOUSE	789.62
GROUND @ HOUSE	796.33
INV IN SEPTIC TANK	788.70
INV OUT SEPTIC TANK	788.45
TOP OF SEPTIC TANK	789.54
GROUND OVER SEPTIC TANK	791.04
INV IN PUMP TANK	788.30
INV OUT PUMP TANK	788.05
TOP OF PUMP TANK	789.14
GROUND OVER PUMP TANK	791.22
INV IN DIST BOX	798.94
INV OUT DIST BOX	798.84
GROUND AT DIST BOX	800.99

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.



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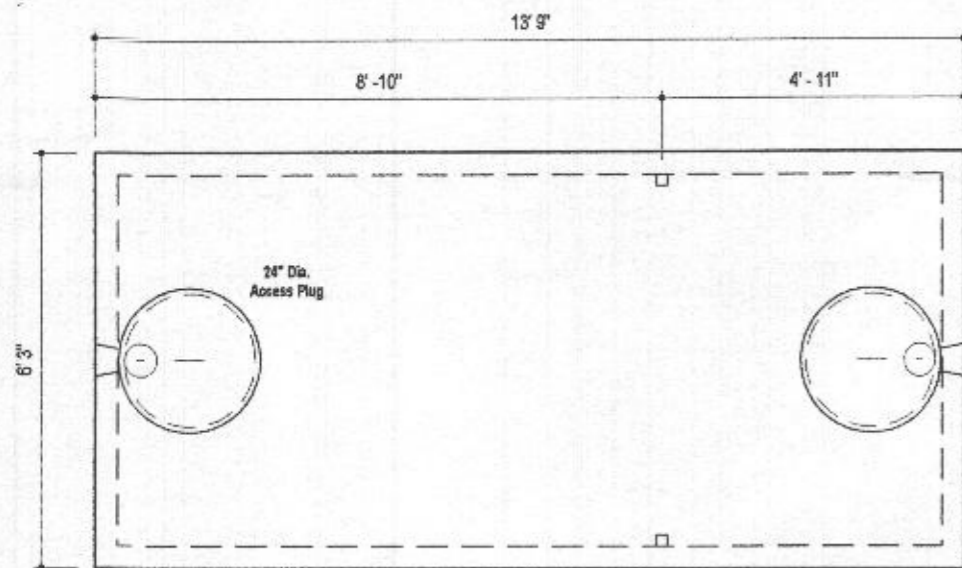
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SEE MANUFACTURER'S SPECIFICATIONS FOR DETAILS. EQUIVALENT FROM OTHER MANUFACTURERS CAN BE SUBSTITUTED.

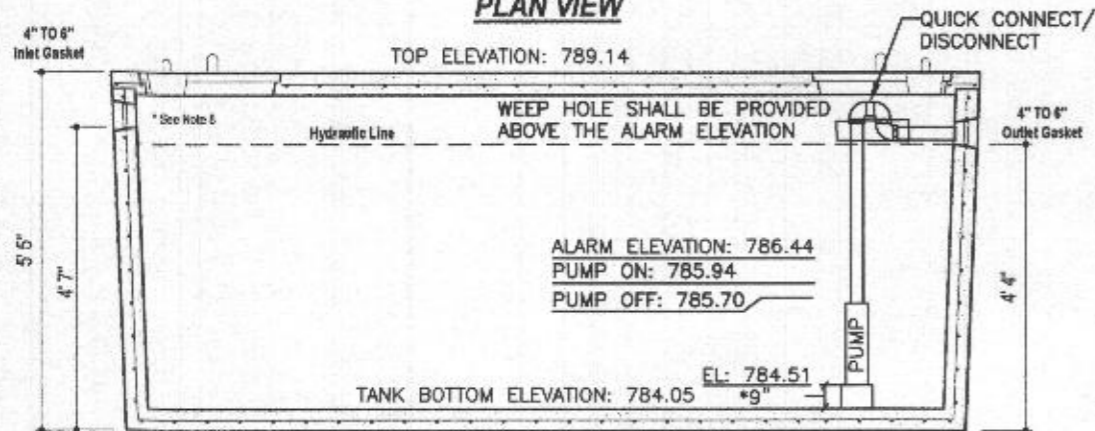
OWNER/BUILDER:
 KEYSTONE CUSTOM HOMES, INC.
 227 GRANITE RUN DR.
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PROJECT:	WINDSOR FOREST KNOLLS LOT 17	
LOCATION:	TAX MAP: 6 - GRID: 16 - PARCEL: 57 18419 HIDDEN CREEK WAY, TAX ID# 04-373332 ELECTION DISTRICT NO. 4 - HOWARD COUNTY, MARYLAND	
TITLE:	ONSITE SEWAGE DISPOSAL PLAN	
HOUSE TYPE:	CUSTOM - KEYSTONE HOMES	
DATE:	APRIL, 2021	PROJECT NO. 2986
SCALE:	AS SHOWN	DRAWING 3 OF 4



PLAN VIEW



SECTION A-A

*USE BLOCK OR SUPPORT TO RAISE PUMP INLET A MINIMUM OF 0.75' OFF BOTTOM OF TANK

WEIGHT = 19,000 lbs.

DESIGN DATA & GENERAL NOTES

- [1] Concrete strength $f'c=4,000$ p.s.i. @ 28 days. Density = 150 pcf.
- [2] Cement - Portland Type III per ASTM C 150-32.
- [3] Admixtures & plasticizers per ASTM C 260-86 & C 494-92.
- [4] Reinforcing per ASTM A105. Min. 1-1/2" cover.
- [5] Top slab sealed with butyl rope mastic.
- [6] 4" wall, 4" base, & 4" top thickness.
- [7] Max 3" of cover
- [8] Depending on use of tank, Inlet & Outlet baffle may be required by code.

MBI
Mayer Bros., Inc.
6264 Race Road
Elkridge, Maryland 21075
Tel. 410.796.1434
Fax. 410.796.1438
www.mayerbrosprecast.com

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

Dwg. No. 2000-1C No Scale Aug. 11, 2008

Your Piece of Mind is Our Top Priority!

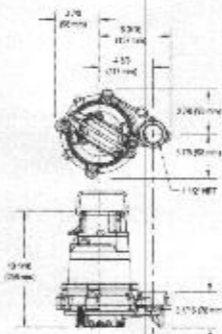


**TECHNICAL DATA SHEET
EVAPORATIVE COOLING PUMPS
Models 371, 372, 373 Submersible Effluent/Dewatering Pump**

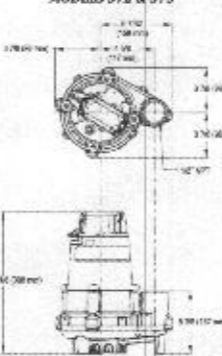
PRODUCT SPECIFICATIONS

GENERAL	Motor Power	0.375 HP
	Voltage	115 or 230
	Phase	1 Ph
	Temp	60 F to 120 F
	SPH	1000 RPM
	Temp	Permissible split capacitor or shaded pole
	Insulation	Class B
	Amperage	3.0 A
PUMP	Operation	Non-clogging
	Discharge Size	1-1/2" NPT
	Grate Housing	10" x 10" mesh stainless steel
	Cord Length	20' - 60' standard
	Cord Type	UL listed
	Max. Head	20' (6 m)
	Max. Flow Rate	40 GPM (151 LPM)
	Max. Operating Temp.	122° F (50° C)
	Coating	OX-Rite
	Water Protection	Auto reset thermal overload
MATERIALS	Case	Cast iron
	Motor Housing	Cast iron
	Flange Housing	Cast iron
	Flange	Cast iron or plastic
	Upper Bearing	Oil-free cast iron ball bearing
	Lower Bearing	Oil-free cast iron ball bearing
	Medial Seal	Carbon and silicon nitride
	Impeller Type	Non-clogging vortex
	Impeller	Engineered plastic
	Hardware	Stainless steel
	Motor Shaft	ASTM 1015 cold water steel
	Gasket	Nippon

MODEL 371



MODELS 372 & 373

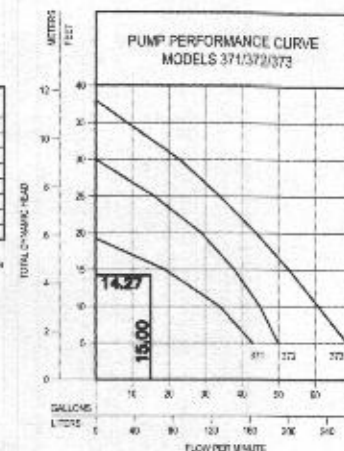


© Copyright 2014 Zoeller® Co. All rights reserved. 502-778-2731 | 800-928-7887 | 3549 Gane Run Road | Louisville, KY 40213-1061 | www.zoeller.com

SECTION: 2.55.03
PART: 2810
0814
Submittal
Rev

**TOTAL DYNAMIC HEAD
FLOW PER MINUTE**

MODEL	371	372	373
Flow (GPM)	30	30	30
Head (ft)	15	15	15
Flow (LPM)	1135	1135	1135
Head (m)	4.3	4.3	4.3
Flow (m³/hr)	76	76	76
Head (m)	4.3	4.3	4.3
Flow (m³/hr)	76	76	76
Head (m)	4.3	4.3	4.3
Flow (m³/hr)	76	76	76
Head (m)	4.3	4.3	4.3
Flow (m³/hr)	76	76	76
Head (m)	4.3	4.3	4.3



RECOMMENDED PUMP:

Model	Seal	Motor	Volts	MODEL COMPARISON				Lbs	Kg
				HP	Hz	Flow	Head		
371-0004	Single	Non	115	0.27	0.3	65	21.0	9.5	
371-0004	Single	Non	230	0.27	0.3	65	21.0	9.5	
372-0004	Single	Non	115	0.37	0.3	65	22.8	10.3	
372-0004	Single	Non	230	0.37	0.3	65	22.8	10.3	
373-0004	Single	Non	115	0.5	0.4	65	27.0	12.2	
373-0004	Single	Non	230	0.5	0.4	65	27.0	12.2	

CAUTION: All models for use in potable water applications should be used for a qualified licensed professional engineer. All electrical safety codes should be followed including National Electrical Code (NEC) and the International Building Code (IBC).

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Float Tree:	Elev.	Relative to Bottom
Bottom of Tank	784.05	
Top of Pump	785.64	1' 7 1/16"
Pump Off	785.70	1' 7 3/4"
Pump On	785.94	1' 10 5/8"
High Alarm	786.44	2' 4 5/8"

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

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

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ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315
ELLCOTT CITY, MARYLAND 21043
(P) 410-465-6105 ▲ (F) 410-465-6644
WWW.BEI-CVILENGINEERING.COM

PROJECT: WINDSOR FOREST KNOLLS
LOT 17

LOCATION: TAX MAP: 6 - GRID: 16 - PARCEL: 57
18419 HIDDEN CREEK WAY, TAX ID# 04-373332
ELECTION DISTRICT NO. 4 - HOWARD COUNTY, MARYLAND

TITLE: ONSITE SEWAGE DISPOSAL PLAN

HOUSE TYPE: CUSTOM - KEYSTONE HOMES

DATE: APRIL, 2021 **PROJECT NO.:** 2986

SCALE: AS SHOWN **DRAWING** 4 **OF** 4

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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