

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: _____ **ONSITE SEWAGE DISPOSAL SYSTEM** P _____

APPROVAL DATE: 09/30/2021 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 18407 Hidden Creek Way

SUBDIVISION: Windsor Forest Knolls LOT: 14 TAX ID: _____

CONTRACTOR: FARM AND HOME EMAIL: _____

CONTRACTOR ADDRESS: DRIVER ROAD PHONE: _____

PROPERTY OWNER: Keystone Custom Homes EMAIL: _____

OWNER ADDRESS: 227 Granite Run Drive PHONE: _____

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Mayor Bros

PUMP MODEL: Zoeller 371-0002 PUMP SIZE 0.3 PUMP TANK CAPACITY: 2000

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 0.6

TRENCHES:	LINEAR FEET REQUIRED: <u>238</u>	INLET DEPTH: <u>2</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>6</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.5</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 5 trenches at 47.7 LF	

ISSUED BY: CABAHUG 001997 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 21002080

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

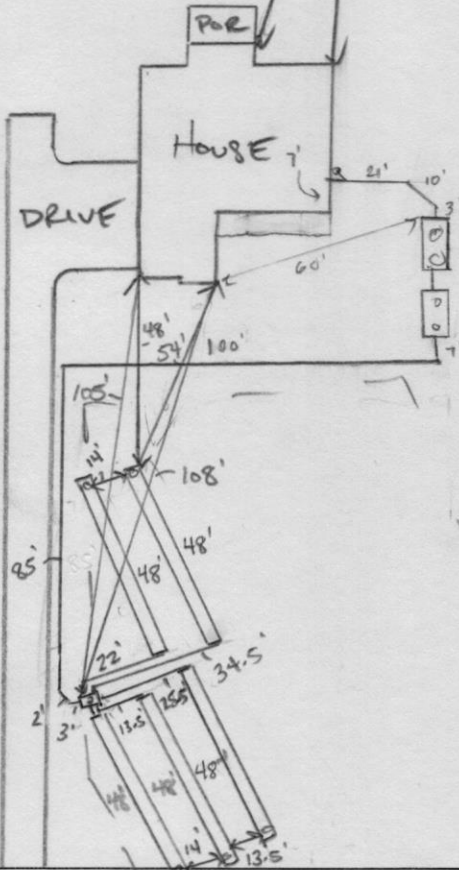
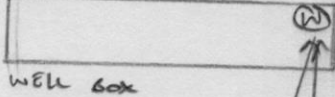
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

1050

NOT TO SCALE HO-95-1041



ROAD NAME
HIDDEN CREEK WAY

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2'	6'
NUMBER OF TRENCHES		5
TOTAL LENGTH		240 F
ABSORPTION AREA		720 SF + 15' SIDE WALL
DISTRIBUTION BOX LEVEL		PUMP
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		-

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL _____

MANUFACTURER Babylon

CAPACITY 2000 GAL

SEAM LOC top

TANK LID DEPTH 1' to 2'

BAFFLES inlet + outlet

BAFFLE FILTER _____

MANHOLE LOC inlet + outlet

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED yes

DATE ON LID 7-13-21

PUMP/SEPTIC TANK LEVEL

MANUFACTURER Babylon

CAPACITY 2000 GAL

SEAM LOC top

TANK LID DEPTH 2' - 2.5'

BAFFLES _____

BAFFLE FILTER _____

MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED no

DATE ON LID 5-10-21

PRE-CONSTRUCTION:

08/17/2021 CHECKED TANK LOCATION. OK TO SET. REINSPECT TRENCH (P)

8/26/21 laid out last two trenches on contour (trenches 3 and 5). (S)

INSTALLATION:

8/25/21 Tanks set. SHC and SI constructed. (S) 8/26/21 FM installed from tank to d-box location. (S)

08/27/2021 TRENCHES CONSTRUCTED; LOWER TRENCH REMAINING. (P)

08/30/2021 LOWER TRENCH COMPLETE. NEEDS PIA. (P)

09/30/2021 Pump + Alarm works. LEFT PANEL 11 + 13 (P)

FINAL INSPECTOR

DATE OF APPROVAL

09/30/2021

Access Easement
for Lot 16
N 22°08'52" E
16.00'

24' Private Access
Easement for Use In
Common Lots 16, 17 & 18

LOT 15

LOT 14

LOT 13

SEE DETAIL



HIDDEN CREEK WAY
(PUBLIC ACCESS PLACE)
50'R/W

TOP OF FOUNDATION WALL = 806.3'
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

SURVEYOR'S CERTIFICATE

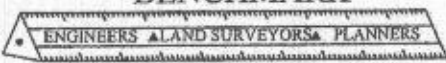
I HEREBY CERTIFY THAT THESE DOCUMENTS, WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21320, EXPIRATION DATE 1-7-2023 AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, 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 04/06/2021.

Donald A. Mason 4/8/21

DONALD A. MASON
PROFESSIONAL LAND SURVEYOR
MARYLAND REG. No. 21320

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

BENCHMARK

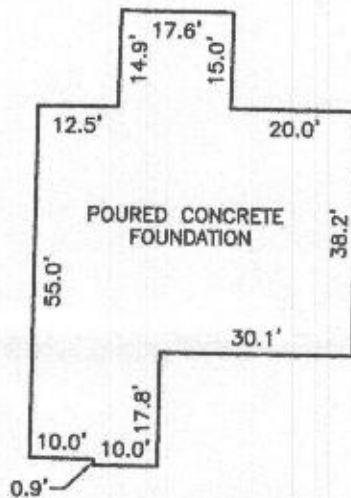


ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE SUITE 315
ELLICOTT CITY, MARYLAND 21043
(P) 410-485-6105 (F) 410-485-8644

WWW.BEI-CVLENGINEERING.COM

Approved
5/27/21 *(Signature)*



FOUNDATION DETAIL
SCALE: 1" = 30'

WALL CHECK

WINDSOR FOREST KNOLLS
LOTS 1 THRU 18
PLAT No. 19396
LOT No. 14

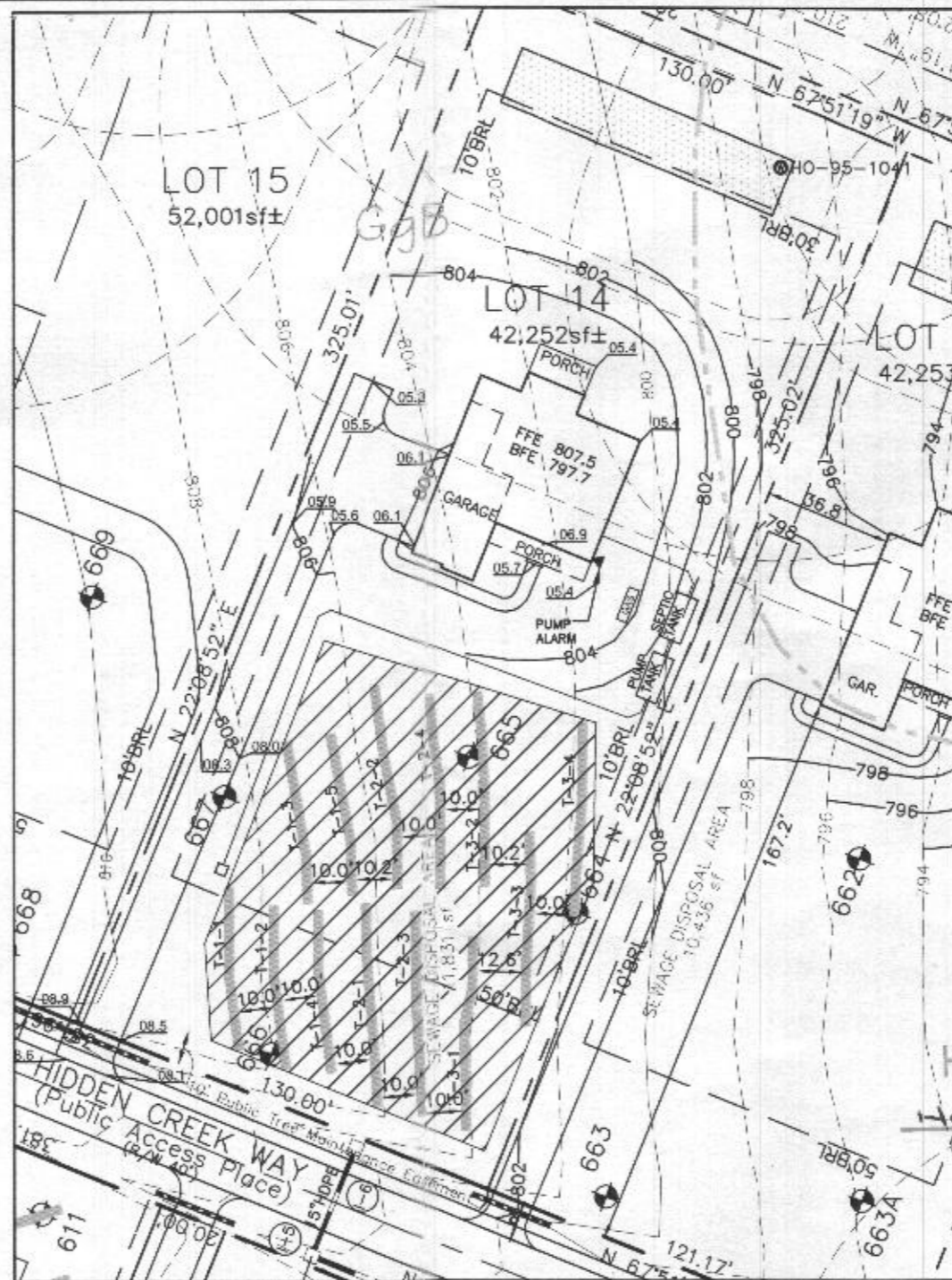
18407 HIDDEN CREEK WAY

4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FIELD OBS. BY ML
COMP. BY EWF
DRAWN BY EWF SCALE: 1" = 50' DATE: 04/06/2021

GENERAL NOTES

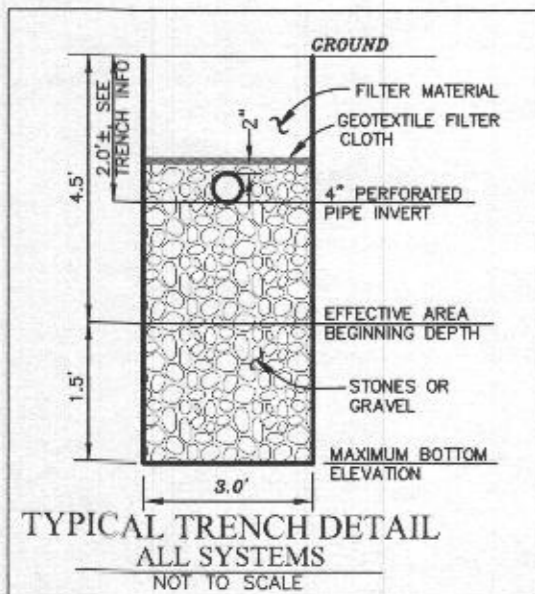
1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR WINDSOR FOREST KNOLLS, PLAT NUMBER 19395. REFER TO THE PLAT FOR LOT DIMENSIONS, LOT AREA, ALL EASEMENTS AND CONDITIONS.
2. THE EXISTING WELL SHOWN ON THIS PLAN (HO-95-1041) HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING INC. JULY 2020 AND IS ACCURATELY 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'



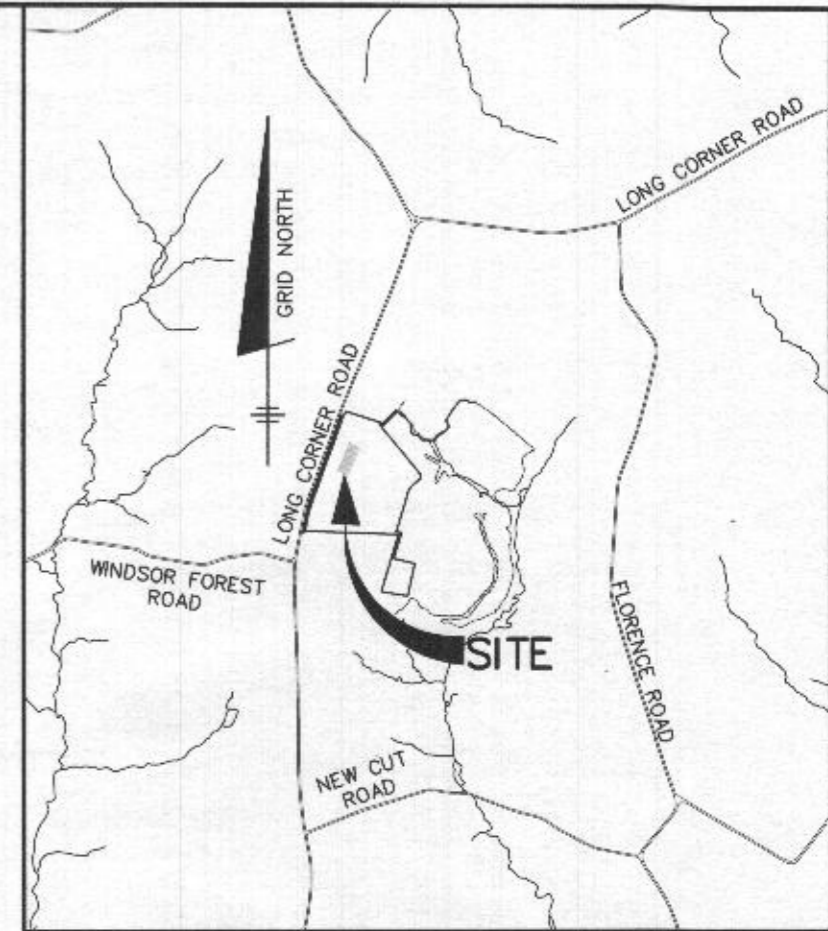
TYPICAL TRENCH DETAIL
ALL SYSTEMS
NOT TO SCALE

LEGEND

- 400 PROPOSED CONTOURS
- 400 EXISTING CONTOURS
- 395
- EXISTING PRIVATE SEWAGE DISPOSAL AREA
- EXISTING WELL BOX
- SOILS MAP SYMBOL
- SOILS DELINEATION LINE
- PERC TEST PASSED
- PERC TEST FAILED



Approved Septic System Plan
Howard County Health Department
Mark Oswald 11/19/2020
Signature Date



VICINITY MAP

SCALE: 1" = 2000'

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: 01-01-2021.



Oct 12 2020 1:50 PM DocuSign

PROJECT:		WINDSOR FOREST KNOLLS LOT 14	
LOCATION:		TAX MAP: 6 - GRID: 16 - PARCEL: 57 18407 HIDDEN CREEK WAY - TAX ID: 04-373308 ELECTION DISTRICT NO. 4 - HOWARD COUNTY, MARYLAND	
TITLE:		ONSITE SEWAGE DISPOSAL PLAN	
HOUSE TYPE:		CUSTOM - KEYSTONE HOMES	
DATE:	OCTOBER, 2020	PROJECT NO.	2986
SCALE:	AS SHOWN	DRAWING	1 OF 4

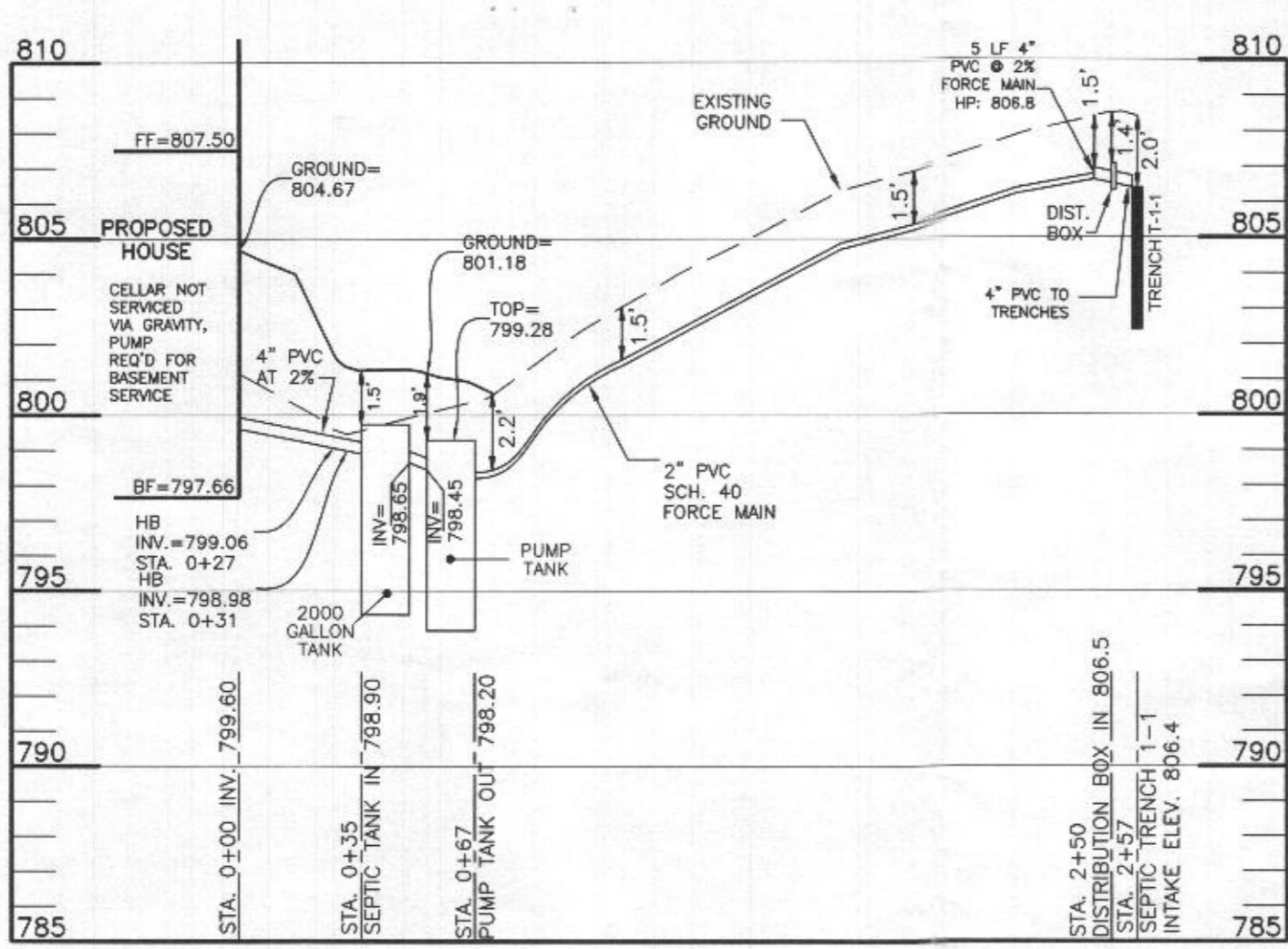
OWNER/BUILDER:
KEYSTONE CUSTOM HOMES, INC.
227 GRANITE RUN DR.
SUITE 100
LANCASTER, PA 17601
717-464-9060

BENCHMARK
ENGINEERS • LAND SURVEYORS • PLANNERS
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8480 BALTIMORE NATIONAL PIKE • SUITE 315
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(P) 410-465-6105 • (F) 410-465-6644
WWW.BEI-CIVILENGINEERING.COM

INITIAL SYSTEM		
Number of Bedrooms	4	
Application Rate	0.6	gpd/sf
Effective Area Beginning Depth	4.5	ft
Bottom Max Depth	6.0	ft
Design Flow	600	gpd
Drainage Field square footage	1000	sf
Sidewall Reduction Credit	0.71	
Trench width	3	ft
Effective Area Depth	1.5	ft
Trench Spacing	10	ft
Trench Length Required	238	lf

1ST REPLACEMENT SYSTEM		
Number of Bedrooms	4	
Application Rate	0.6	gpd/sf
Effective Area Beginning Depth	4.5	ft
Bottom Max Depth	6.0	ft
Design Flow	600	gpd
Drainage Field square footage	1000	sf
Sidewall Reduction Credit	0.71	
Trench width	3	ft
Effective Area Depth	1.5	ft
Trench Spacing	10	ft
Trench Length Required	238	lf

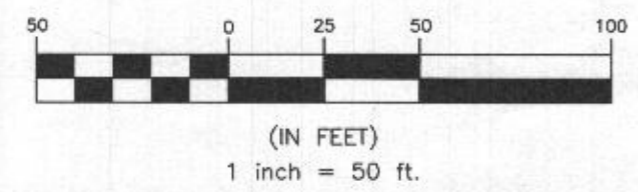
2ND REPLACEMENT SYSTEM		
Number of Bedrooms	4	
Application Rate	0.6	gpd/sf
Effective Area Beginning Depth	4.5	ft
Bottom Max Depth	6.0	ft
Design Flow	600	gpd
Drainage Field square footage	1000	sf
Sidewall Reduction Credit	0.71	
Trench width	3	ft
Effective Area Depth	1.5	ft
Trench Spacing	10	ft
Trench Length Required	238	lf



LOT 14 SEPTIC PROFILE
SCALE: 1"=50' HORIZ., 1"=5' VERT.

TRENCH DESIGN - Lot 14					
INITIAL SYSTEM					
T-1-1	LENGTH	47.7 ft	T-1-2	LENGTH	47.7 ft
	GROUND ELEVATION	808.4		GROUND ELEVATION	807.8
	INVERT ELEVATION	806.4		INVERT ELEVATION	805.8
	MAX BOTTOM ELEVATION	802.4		MAX BOTTOM ELEVATION	801.8
T-1-4	LENGTH	47.7 ft	T-1-5	LENGTH	47.7 ft
	GROUND ELEVATION	807.0		GROUND ELEVATION	806.4
	INVERT ELEVATION	805.0		INVERT ELEVATION	804.4
	MAX BOTTOM ELEVATION	801.0		MAX BOTTOM ELEVATION	800.4
1ST REPLACEMENT SYSTEM					
T-2-1	LENGTH	59.6 ft	T-2-2	LENGTH	59.6 ft
	GROUND ELEVATION	806.0		GROUND ELEVATION	805.6
	INVERT ELEVATION	804.0		INVERT ELEVATION	803.6
	MAX BOTTOM ELEVATION	800.0		MAX BOTTOM ELEVATION	799.6
T-2-3	LENGTH	59.6 ft	T-2-4	LENGTH	59.6 ft
	GROUND ELEVATION	805.2		GROUND ELEVATION	804.7
	INVERT ELEVATION	803.2		INVERT ELEVATION	802.7
	MAX BOTTOM ELEVATION	799.2		MAX BOTTOM ELEVATION	798.7
2ND REPLACEMENT SYSTEM					
T-3-1	LENGTH	59.6 ft	T-3-2	LENGTH	59.6 ft
	GROUND ELEVATION	804.1		GROUND ELEVATION	803.8
	INVERT ELEVATION	802.1		INVERT ELEVATION	801.8
	MAX BOTTOM ELEVATION	798.1		MAX BOTTOM ELEVATION	797.8
T-3-3	LENGTH	59.6 ft	T-3-4	LENGTH	59.6 ft
	GROUND ELEVATION	802.8		GROUND ELEVATION	801.7
	INVERT ELEVATION	800.8		INVERT ELEVATION	799.7
	MAX BOTTOM ELEVATION	796.8		MAX BOTTOM ELEVATION	795.7

HEALTH DEPARTMENT SPEC SHEET INFORMATION - Lot 14			
System	Application Rate	Effective Depth	Bottom Depth
1st System	0.6	4.5	6.0
2nd system	0.6	4.5	6.0
3rd System	0.6	4.5	6.0



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

SEPTIC INVERT CHART - Lot 14	
INV @ HOUSE	799.6
GROUND @ HOUSE	804.7
INV IN SEPTIC TANK	798.9
INV OUT SEPTIC TANK	798.7
TOP OF SEPTIC TANK	799.7
GROUND OVER SEPTIC TANK	801.3
INV IN PUMP TANK	798.5
INV OUT PUMP TANK	798.2
TOP OF PUMP TANK	799.3
GROUND OVER PUMP TANK	801.2
INV IN DIST BOX	806.5
INV OUT DIST BOX	806.4
GROUND AT DIST BOX	808.5

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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: 01-01-2021.



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LOCATION:	TAX MAP: 6 - GRID: 16 - PARCEL: 57 18407 HIDDEN CREEK WAY - TAX ID: 04-373308 ELECTION DISTRICT NO. 4 - HOWARD COUNTY, MARYLAND		
TITLE:	ONSITE SEWAGE DISPOSAL PLAN		
HOUSE TYPE:	CUSTOM - KEYSTONE HOMES		
DATE:	OCTOBER, 2020	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 = 182 feet SCH.40 gallons/100 feet = 17.4 Table 4.2

Volume of Main = 31.7 gallons

Total Volume = 31.7 gallons

Minimum Dose must be greater than 1/6 of the design flow 100 gallons

Minimum Dose must be greater than the volume of the main 32 gallons

Use minimum dose of 120 gallons okay Doses per Day = 5

Size Pump Chamber

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

One day Capacity = 600 gallons
 Dose = 120 gallons
 Totals = 720 gallons

Use 2,000 gallon pump tank

Tank Dimensions:	Exterior	Interior		
Length:	13.75 feet	Length:	13.08 feet	Walls:
Width:	6.25 feet	Width:	5.58 feet	Bottom:
Height:	5.42 feet	Height:	4.67 feet	Top:
		Area:	73.05 sf	Bottom to
		Volume:	340.89 cf	Inlet:
				4.58 feet

Sizing the Pump

Flow: runtime = 6.000 minutes
 rate = 20.00 gallons/minute

Design Head: Design Head = Static Head + Friction Head
 Static Head = highest elevation of main - pump off elevation
 Highest component of system = 806.8 Main HP
 Pump off elevation = 795.61
 Static Head = 11.19 feet
 Friction Head = Head loss due to pipe friction
 2.0" pipe = 182 feet
 45° bends 7 loss for bend 28 feet per table 4.3
 Gate Valve 0 loss for tee 0 feet per table 4.3
 Friction loss per table 4.4 = 0.74 (ft/100 ft)
 Equivalent Length = 210 Friction loss 1.55 feet
 Total Friction Head = 1.55
 Design Head = 12.74 feet

Pump Requirements:

Performance = 20.00 gpm
 Head of Water = 12.74 feet of head

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

Pump Flow Rate = 25.78 gallons/minute per rating curve. Run time: 4.65 Minutes
 TDH analysis 13.64 ft
 Between design and curve? Yes

Design Pump Chamber

Ground over Tank = 801.18 Cover = 1.90 ft
 Top of Tank = 799.28
 Invert of Tank = 794.19
 8" Riser = 0.50 feet
 Pump Height = 0.84 feet

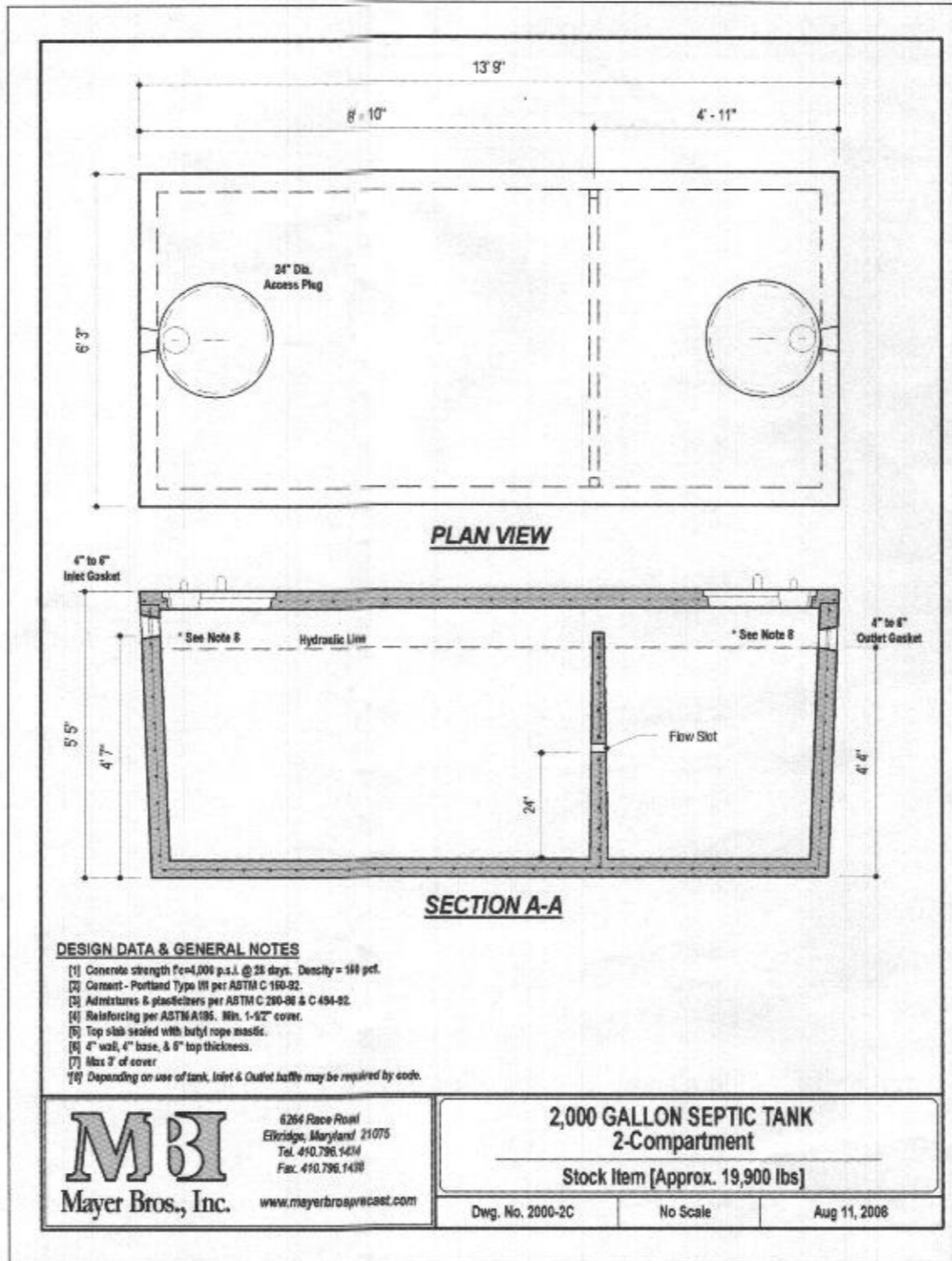
Min. Pump off = 795.53
 Selected Pump off = 795.61

Dose = 16 cf
 Area of Pit = 73.05 sf

Pump on dist. = 0.22
 Pump on Elev. = 795.83

Distance between Pump on and Highwater Alarm = 0.5 feet
 Highwater Alarm Elevation = 796.33

Dist. for day stored above alarm 1.10
 Minimum Inlet Elev. = 797.43
 Tank Inlet = 798.44 Okay
 Dist. Alarm to Inlet = 2.11 Okay



DESIGN DATA & GENERAL NOTES

- [1] Concrete strength f'c=4,000 p.s.i. @ 28 days. Density = 144 pcf.
- [2] Cement - Portland Type III per ASTM C 150-92.
- [3] Admixtures & plasticizers per ASTM C 260-98 & C 494-92.
- [4] Reinforcing per ASTM A195. Min. 1-5/8" cover.
- [5] Top slab sealed with butyl rope mastic.
- [6] 4" wall, 4" base, & 6" top thickness.
- [7] Max 3" of cover
- [8] Depending on use of tank, Inlet & Outlet baffles may be required by code.

MB
 Mayer Bros., Inc. www.mayerbrospipecast.com
 6264 Race Road
 Elbridge, Maryland 21075
 Tel. 410.796.1414
 Fax. 410.796.1400

**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 14	
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GROUND @ HOUSE	804.7
INV IN SEPTIC TANK	798.9
INV OUT SEPTIC TANK	798.7
TOP OF SEPTIC TANK	799.7
GROUND OVER SEPTIC TANK	801.3
INV IN PUMP TANK	798.5
INV OUT PUMP TANK	798.2
TOP OF PUMP TANK	799.3
GROUND OVER PUMP TANK	801.2
INV IN DIST BOX	806.5
INV OUT DIST BOX	806.4
GROUND AT DIST BOX	808.5

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: 01-01-2021.



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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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