

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: 10-25-22 **ONSITE SEWAGE DISPOSAL SYSTEM** P 5721609

APPROVAL DATE: 12/21/22 **PERMIT: TANK REPLACEMENT** A _____

PROPERTY ADDRESS: 14700 Carriage Mill Road

SUBDIVISION: _____ LOT: _____ TAX ID: _____

CONTRACTOR: Jeff Allen Backhoe EMAIL: _____

CONTRACTOR ADDRESS: 15100 Frederick Road, Woodbine, MD 21797 PHONE: 410-707-9028

PROPERTY OWNER: Charles and Barbara Dorsey EMAIL: _____

OWNER ADDRESS: 14700 Carriage Mill Road, Woodbine, MD 21797 PHONE: _____

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Babylon

PUMP MODEL: _____ PUMP SIZE _____ PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: _____ APPLICATION RATE: _____

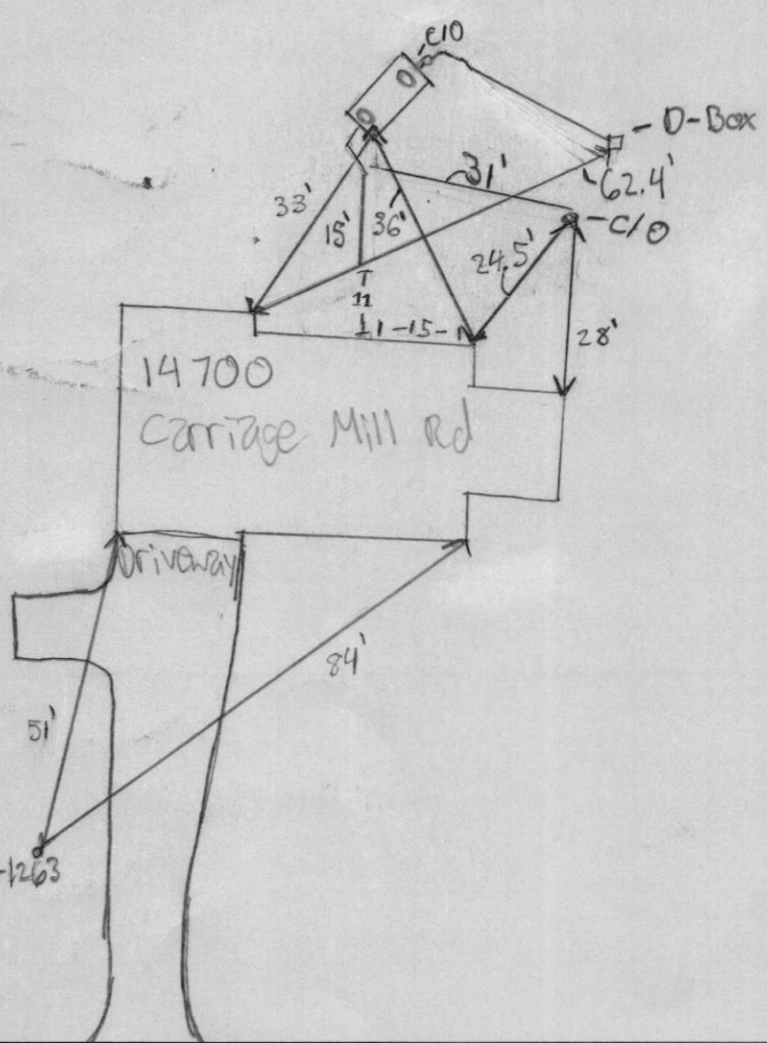
TRENCHES:	LINEAR FEET REQUIRED: _____	INLET DEPTH: _____
	TRENCH WIDTH: _____	MAXIMUM BOTTOM DEPTH: _____
	MINIMUM SPACE BETWEEN TRENCHES: _____	EFFECTIVE AREA BEGINNING DEPTH: _____
LOCATION:	INSTALL REPLACEMENT SEPTIC TANK PER PLAN	
NOTES:		

ISSUED BY: Hank Oswald ISSUE DATE: 10-8-22 EXPIRATION DATE: 10-25-23

- 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 _____
- 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" = 30'



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
_____	_____	_____
NUMBER OF TRENCHES _____		
TOTAL LENGTH _____		
ABSORPTION AREA _____		
DISTRIBUTION BOX LEVEL _____		
DISTRIBUTION BOX BAFFLE _____		
DISTRIBUTION BOX PORT _____		

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	<u>yes</u>
MANUFACTURER	<u>Babylon</u>
CAPACITY	<u>2000</u> GAL
SEAM LOC	<u>top</u>
TANK LID DEPTH	_____
BAFFLES	<u>6" front + 4" back</u>
BAFFLE FILTER	_____
MANHOLE LOC	<u>front + back</u>
6" PORT LOC	_____
WATERTIGHT TEST	<u>-</u>
SLOTTED	<u>yes</u>
DATE ON LID	<u>7/22/22</u>
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 _____	

ROAD NAME
Carriage Mill Road

PRE-CONSTRUCTION:

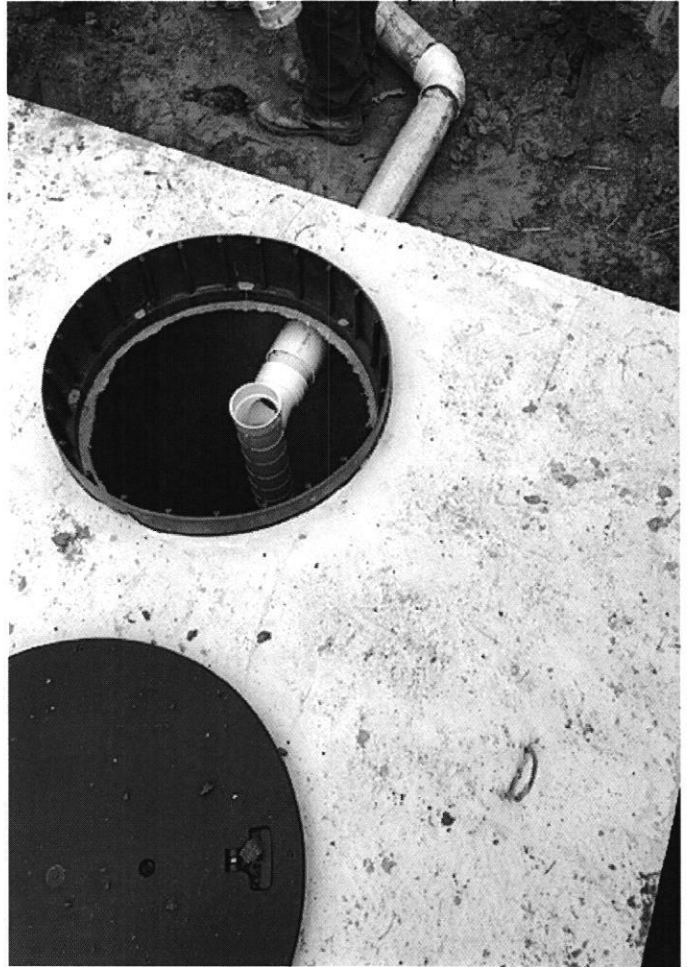
INSTALLATION: 12/12/22 - Tank was crushed & filled, pic in file. New tank comes from existing line. Tank not onsite yet. Onsite for when new tank is set
 Reinspect for front end baffle & connection to d-box (RR/SP)
 12/12/22 - Contractor sent pics of front end baffle. (SP)
 12/19/22 - Baffles are backwards & Jeff will call in for reinspection (SP)
 12/21/22 - onsite to check corrected baffles (RR/SP)

FINAL INSPECTOR Ryan Rappaport / Shepsura Page DATE OF APPROVAL 12/21/23

Pics from Jeff Allen (contractor) 12/12/22



Pics from Jeff Allen (contractor) 12/2/22





pics from Jeff Allen (contractor)
12/12/22

Oswald, Hank

From: Oswald, Hank
Sent: Thursday, December 8, 2022 9:21 AM
To: 'Ba'; 'Barbara Dorsey'
Subject: OSDS Plan_14700 Cariage Mill Road_Septic Upgrade Permit

Hello Mr. and Mrs. Dorsey:

Good morning. The OSDS Plan has been approved. Please have your septic contractor come in to our office to pick-up the septic permit, a copy of the approved plan, pay the permit fee (\$165), and schedule a layout inspection.

Thanks,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Bureau of Environmental Health
Howard County Health Department
8930 Stanford Blvd. Columbia, MD 21045
(410) 313 - 1786
www.hchealth.org

DISCLAIMER: This e-mail is intended only for the individual to whom it is addressed. It may be used only in accordance with applicable laws. If you are not the intended recipient, you are strictly prohibited from reading, disseminating, distributing, or copying this message. If you received this e-mail by mistake, please notify the sender and destroy this e-mail

Oswald, Hank

From: Oswald, Hank
Sent: Wednesday, December 7, 2022 10:00 AM
To: Tony Fertitta
Subject: RE: OSDS Plan_14700 Carriage Mill Road

Tony:

On the revised OSDS Plan, I'm getting a 7% fall from the cleanout to the tank.

Hank

From: Tony Fertitta <tonyf@fcc-eng.com>
Sent: Wednesday, December 7, 2022 9:06 AM
To: Oswald, Hank <hoswald@howardcountymd.gov>
Subject: RE: OSDS Plan_14700 Carriage Mill Road

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Ok thanks

From: Oswald, Hank <hoswald@howardcountymd.gov>
Sent: Wednesday, December 7, 2022 8:57 AM
To: Tony Fertitta <tonyf@fcc-eng.com>
Subject: RE: OSDS Plan_14700 Carriage Mill Road

Hi Tony:

Jeff said once we have an approved OSDS Plan, we can release the septic permit to install the new septic tank. But, we will still need a revised perc cert plan with the note regarding the waiver before we can approve the building permit.

Let me know if you have any questions.

Hank

From: Tony Fertitta <tonyf@fcc-eng.com>
Sent: Tuesday, December 6, 2022 2:59 PM
To: Oswald, Hank <hoswald@howardcountymd.gov>
Subject: RE: OSDS Plan_14700 Carriage Mill Road

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

That was done by the field survey at the time of the perc cert.

From: Oswald, Hank <hoswald@howardcountymd.gov>
Sent: Tuesday, December 6, 2022 2:09 PM

To: Tony Fertitta <tonyf@fcc-eng.com>
Subject: OSDS Plan_14700 Carriage Mill Road

Hi Tony:

I have one 1 question and 4 comments about the OSDS Plan for 14700 Carriage Mill Road.

1. How was the invert elevation out of the house determined?
2. Add scale (1:30) to plan.
3. The length of the SHC in the septic profile (scale 1:50) doesn't match the length shown on the layout which appears to be 1:30 scale.
4. The pipe in the trench detail exceeds max depth of 4 feet.
5. Note #5 needs to be changed because the existing trenches won't need upgrading.

Should you have any questions, please don't hesitate to ask.

Thanks,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Bureau of Environmental Health
Howard County Health Department
8930 Stanford Blvd. Columbia, MD 21045
(410) 313 - 1786
www.hchealth.org

DISCLAIMER: This e-mail is intended only for the individual to whom it is addressed. It may be used only in accordance with applicable laws. If you are not the intended recipient, you are strictly prohibited from reading, disseminating, distributing, or copying this message. If you received this e-mail by mistake, please notify the sender and destroy this e-mail

Oswald, Hank

From: home@shanlane.com
Sent: Monday, October 31, 2022 11:39 PM
To: Oswald, Hank
Subject: Re: Perc Cert Plan_14700 Carriage Mill Road

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hank

My availability for phone calls hasn't worked out as I hoped, so I'll try to move things along with this email.

First, I'm not doing the OSDS plan for Mr. Dorsey. I'll advise him of this again.

Second, it looks like some of the comments here pertain to the OSDS plan and not to a Perc Certification Plat.

Going through the comments:

1. I'll add the word "disposal".
2. I thought this was already accomplished with different symbols and with the Legend but I see it is not. I'll add the required symbols and test hole numbers.
3. The SDA area is 10,000 square feet. I'll add that to the plan.
4. I will change the signature block.
5. I can add the note, but Note 6 already covers this.
6. I will change the note.
7. I will change the note.
8. I can add the note, but I think Note 6 covers this if I add a little additional wording to it.
9. I will add a vicinity map.
10. Radius will be removed.

Responding to comments from earlier emails:

Will change the wording on Note 13 to reflect the existing Septic tank being abandoned, not removed.

Will change signature block to reflect private water.

Comment: "Attached, please find the septic specs for 14700 Carriage Mill Road. In addition to the regular requirements for an OSDS Plan, please include step by step instructions on how the existing trench modifications will occur. I'm told that part of the steps should include having the septic tank pumped a day or maybe two before the start of work to reduce the amount of liquid in the area. We'll also want to know if the portion of the existing trench will be completely removed and disposed of properly, or simply cut and walled off by an impermeable layer or some other means to prevent liquid from seeping back into the old portion of the trench. I'm told that you should consult with the septic contractor on this, so everyone is on the same page. His name is Jeff Allen. His # is (410) 707-9028."

The steps in this comment apply to the required OSDS plan. Since I'm not doing the OSDS plan I'd like to keep them off the Perc Certification Plat. It doesn't need to be done twice.

Just for clarity and so I understand, are these things correct?

There needs to be an OSDS Plan.

The part of the trench and the distribution box within the 20-foot setback from the addition have to be removed (dist. box) and removed or cut off by acceptably means (the trench)

Step by step instructions for modifying the trenches must be on the OSDS plan.

No new trenches or trench lengthening is required for approval of the Perc Certification Plat or the OSDS plan.

Thanks in advance for your reply.

Scott
G. Scott Shanaberger
Shanaberger & Lane
8726 Town & Country Blvd.
Suite 201
Ellicott City, MD 21043
410-461-9563
410-461-9693 fax
home@shanlane.com

Hi Scott:

I tried calling you again this morning. I'm in the office until 2 today, or you can try me tomorrow afternoon.

Thanks,

Hank

Hank Oswald

Oswald, Hank

From: Oswald, Hank
Sent: Thursday, October 27, 2022 10:22 AM
To: home@shanlane.com
Subject: RE: Perc Cert Plan_14700 Carriage Mill Road
Attachments: [Untitled].pdf

Hi Scott:

Attached, please find the septic specs for 14700 Carriage Mill Road. In addition to the regular requirements for an OSDS Plan, please include step by step instructions on how the existing trench modifications will occur. I'm told that part of the steps should include having the septic tank pumped a day or maybe two before the start of work to reduce the amount of liquid in the area. We'll also want to know if the portion of the existing trench will be completely removed and disposed of properly, or simply cut and walled off by an impermeable layer or some other means to prevent liquid from seeping back into the old portion of the trench. I'm told that you should consult with the septic contractor on this, so everyone is on the same page. His name is Jeff Allen. His # is (410) 707-9028.

Should you have any questions or concerns, please don't hesitate to ask.

Thanks,

Hank

From: home@shanlane.com <home@shanlane.com>
Sent: Wednesday, October 26, 2022 12:28 PM
To: Oswald, Hank <hoswald@howardcountymd.gov>
Subject: Re: Perc Cert Plan_14700 Carriage Mill road

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hank,
Along with the perc cert revisions/amendments listed below Mr Dorsey will need to submit another plan for the actual system improvements. Can you send me the specs or a link to the specs for that additional plan?

Thanks!

Hi Scott:

Good morning. I need to revise my last set of plan review comments sent to you on 10.21.22. The following comments still apply:

1. Add the word "disposal" in between the words "sewage area" in notes 4 and 7 etc.
2. Add the previous perc test holes along with proper legend symbol to plan. Please differentiate new and old (by date) *passing* perc test holes in legend.
3. Add elevation #s next to each perc test hole. Please make sure elevation #s are legible on printed copy.
4. Add sq. ft. to SDA.
5. Change signature block to read private water.
6. Add note; The existing well tag # HO-94-1263 has been field located and is accurately shown.
7. Change note #13 to read; A 2000 gallon septic tank must be installed and the existing septic tank must be properly abandoned. (Please note that septic tanks aren't typically removed. They are pumped crushed and filled in)
8. Add separate a note; The septic tank, d-box and trench ends have been field located and are accurately shown.
9. Add vicinity map
10. Delete radius circle around the d-box.

I apologize for any inconvenience. Please let me know if you have any questions.

Thanks,

Hank

Hank Oswald

Licensed Environmental Health Specialist

Bureau of Environmental Health

Howard County Health Department

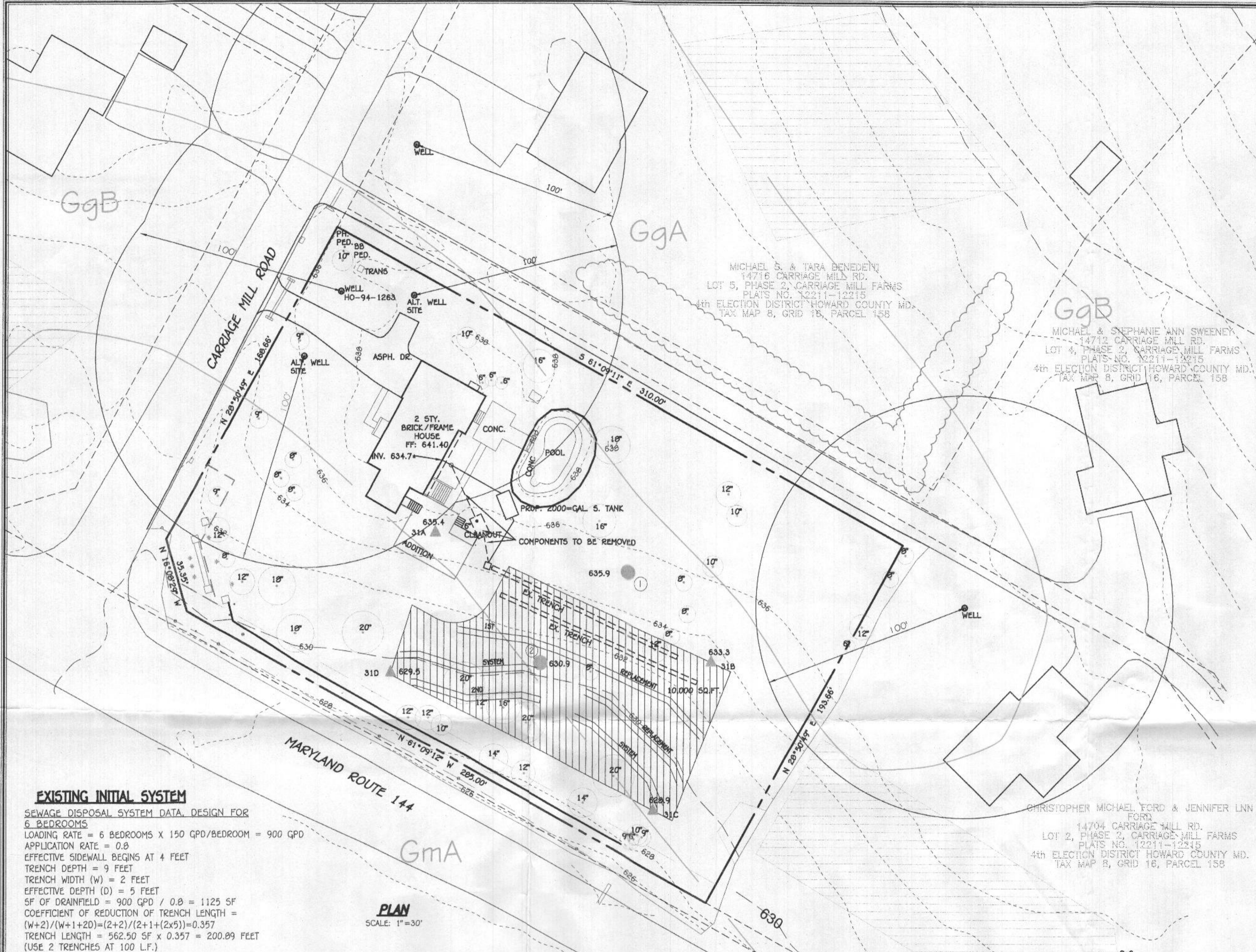
8930 Stanford Blvd. Columbia, MD 21045

(410) 313 - 1786

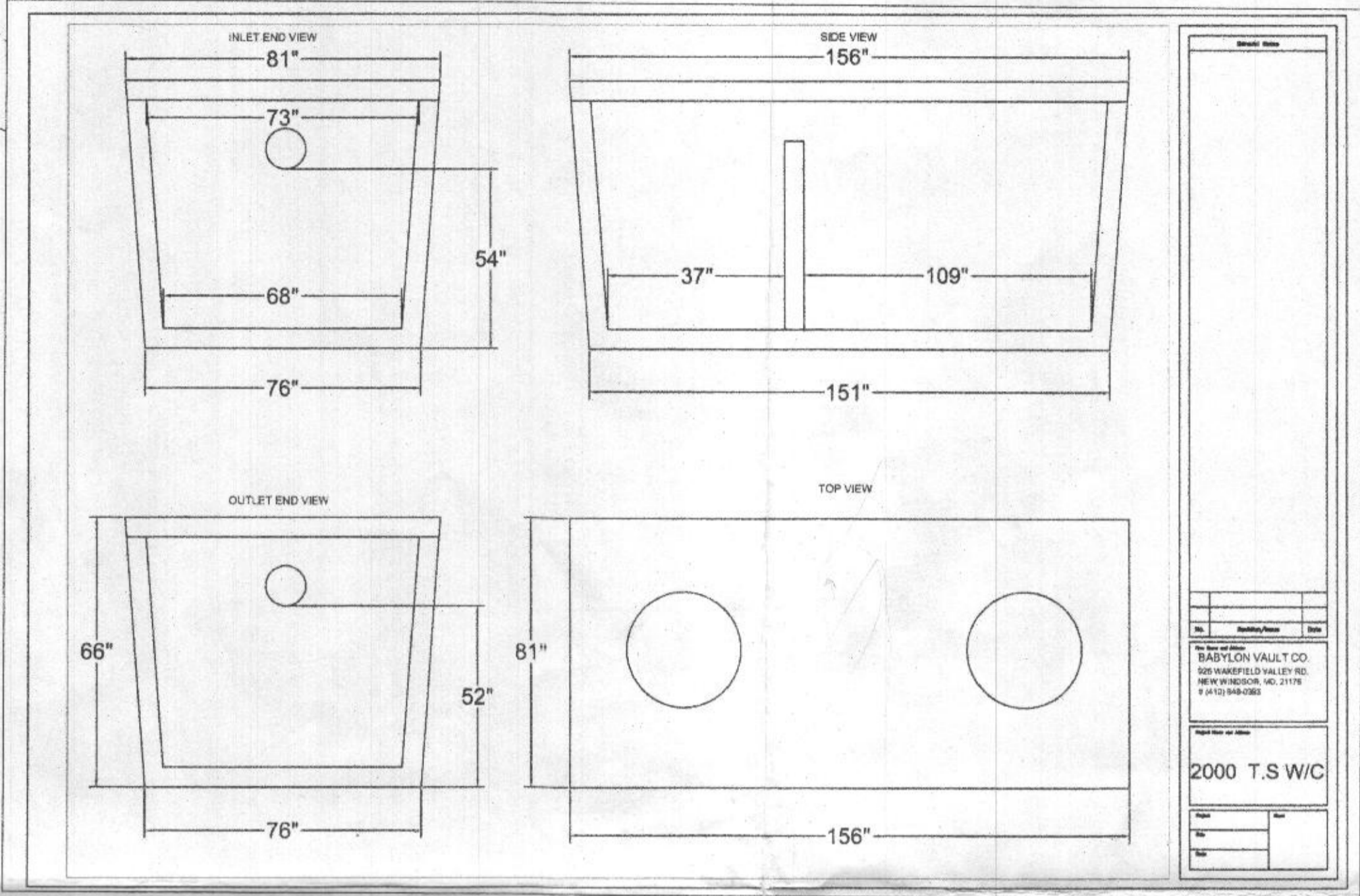
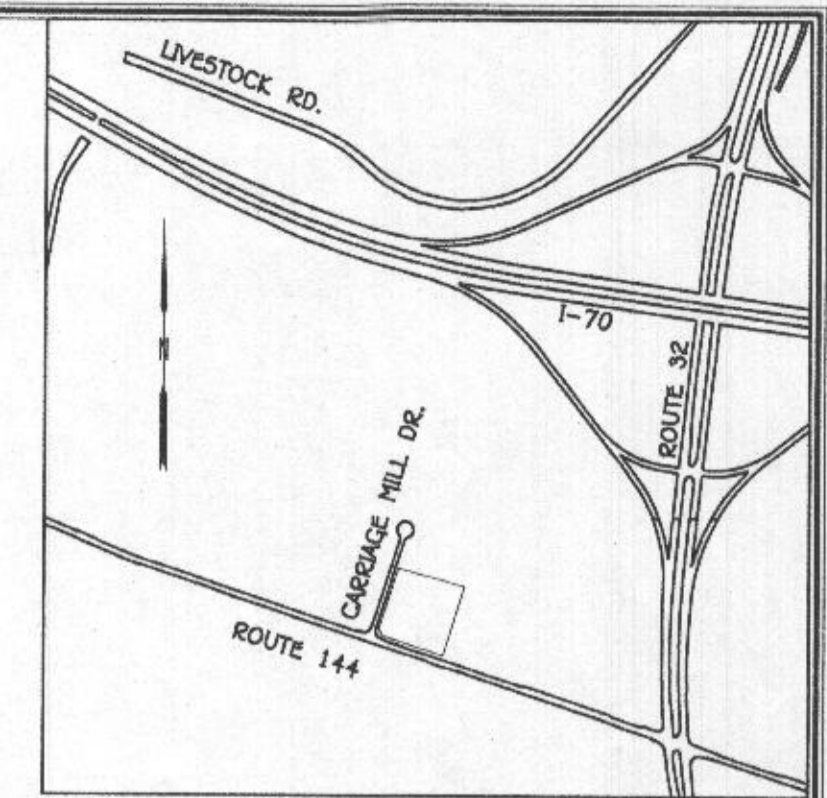
www.hchealth.org

DISCLAIMER: This e-mail is intended only for the individual to whom it is addressed. It may be used only in accordance with applicable laws. If you are not the intended recipient, you are strictly prohibited from reading, disseminating, distributing, or copying this message. If you received this e-mail by mistake, please notify the sender and destroy this e-mail

From: Oswald, Hank
Sent: Friday, October 21, 2022 2:49 PM
To: 'home@shanlane.com' <home@shanlane.com>
Subject: Perc Cert Plan_14700 Carriage Mill road



1. ANY CHANGE 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.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. THE WELL HO-94-1263 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
4. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
5. THE SEPTIC SYSTEM TANK CAPACITY MUST BE UPGRADED. THE INSTALLATION PERMIT FOR THE UPGRADE SHALL BE CONDITIONED SO THAT THE EXISTING SEPTIC TANK IS PROPERLY ABANDONED FOR FINAL APPROVAL OF THE INSTALLATION. THE CONTRACTOR IS TO SUBMIT A COPY OF THE INVOICE TO PUMP THE TANK DRY ALONG WITH A REPORT OF ABANDONMENT. FINAL APPROVAL MUST BE INDICATED ON THE INSTALLATION PERMIT PRIOR TO HEALTH DEPARTMENT APPROVAL OF A PERMIT THAT INCREASES THE NUMBER OF BEDROOMS.
6. A 2000-GALLON SEPTIC TANK MUST BE INSTALLED AND THE EXISTING SEPTIC TANK MUST BE PROPERLY ABANDONED.
7. EXISTING SEPTIC TANK, DISTRIBUTION BOX, AND ENDS OF EX. TRENCHES ARE FIELD-LOCATED AND ACCURATELY SHOWN BY SHANABERGER & LANE.
8. A WAIVER HAS BEEN APPROVED TO ALLOW THE DISTRIBUTION BOX AND TRENCH TO BE CLOSER THAN 20' TO THE PROPOSED ADDITION.



EXISTING INITIAL SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS
LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 9 FEET
TRENCH WIDTH (W) = 2 FEET
EFFECTIVE DEPTH (D) = 5 FEET
SF OF DRAINFIELD = 900 GPD / 0.8 = 1125 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (2+2)/(2+1+(2x5)) = 0.357
TRENCH LENGTH = 562.50 SF x 0.357 = 200.89 FEET
(USE 2 TRENCHES AT 100 LF.)

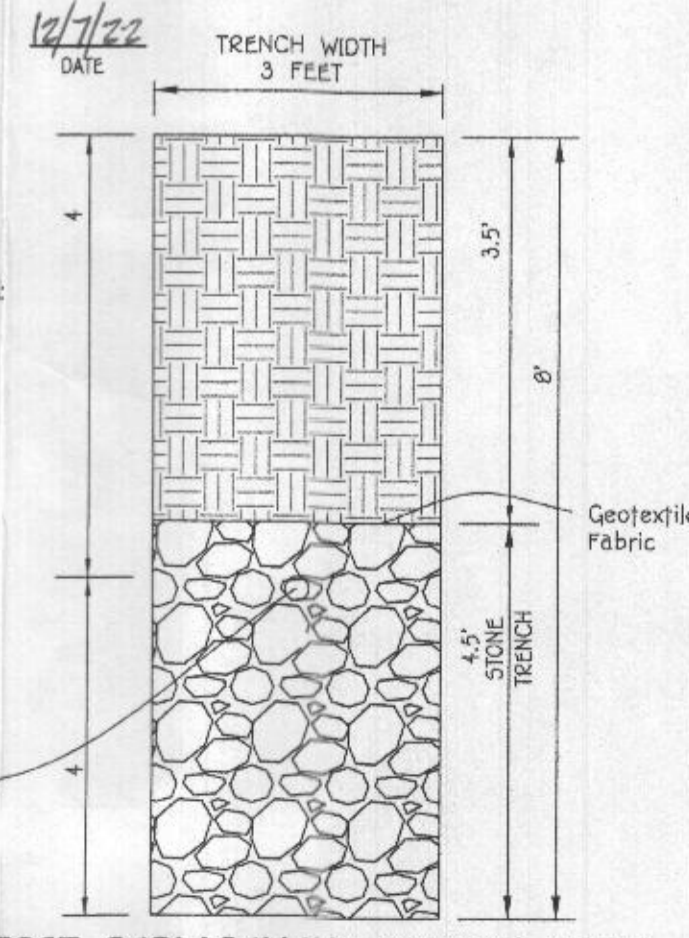
1ST REPLACEMENT SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS
LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 5 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3 FEET
SF OF DRAINFIELD = 900 GPD / 0.8 = 1125 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3)) = 0.500
TRENCH LENGTH = 375 SF x 0.500 = 187.50 FEET
(USE 3 TRENCHES AT 62.50 LF.)
TRENCH SPACING = 2D+W = ((2x3) + 3) = 9' USE 10'

2ND REPLACEMENT SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS
LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 5 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3 FEET
SF OF DRAINFIELD = 900 GPD / 0.8 = 1125 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3)) = 0.500
TRENCH LENGTH = 375 SF x 0.500 = 187.50 FEET
(USE 3 TRENCHES AT 62.50 LF.)
TRENCH SPACING = 2D+W = ((2x3) + 3) = 9' USE 10'

PLAN
SCALE: 1"=30'

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. 20748, EXPIRATION DATE: 02/22/2023.

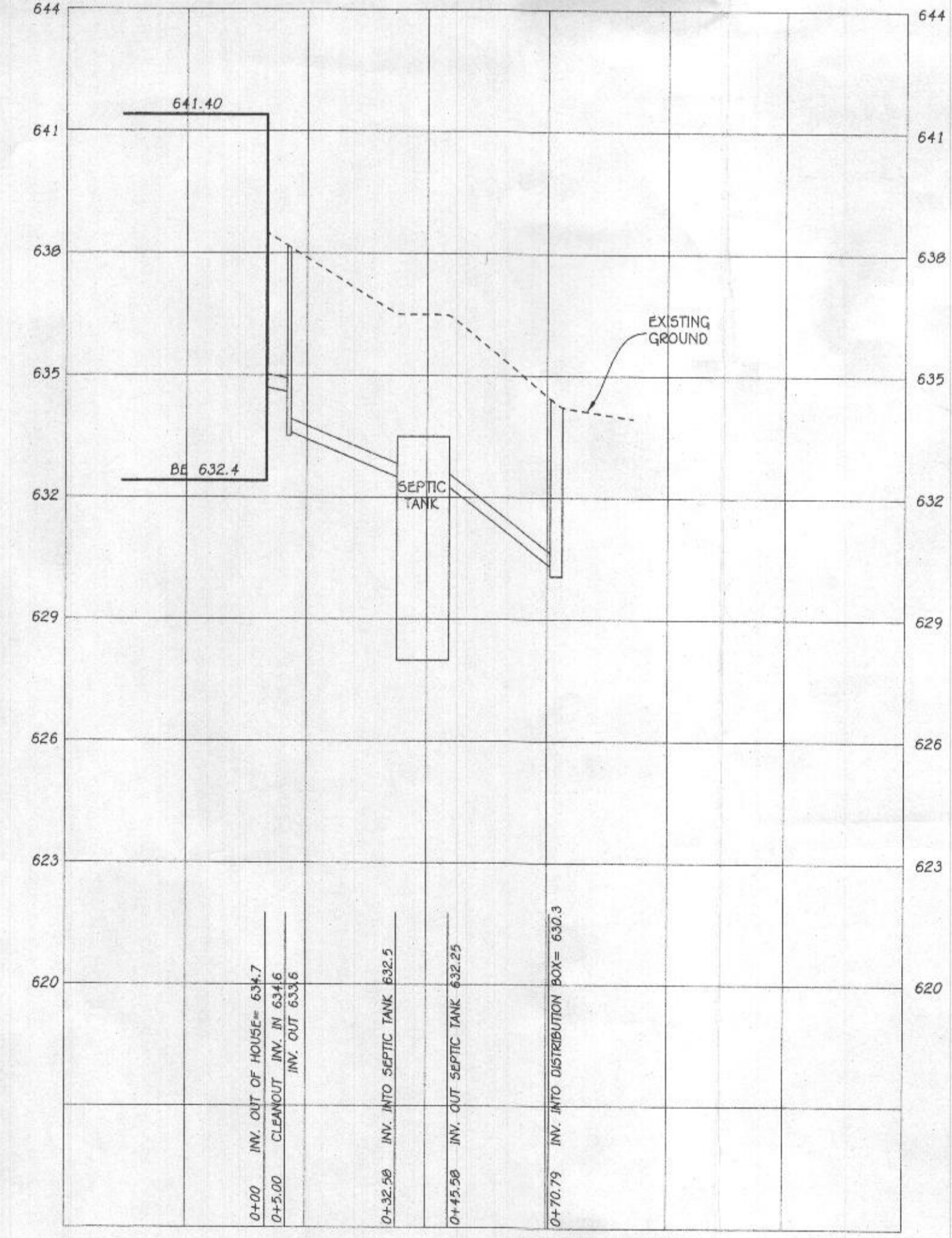
Signature of Professional Engineer



FIRST REPLACEMENT TRENCH DATA:
TRENCH 1:
EX. GROUND ABOVE = 631.7
INV. IN = 627.7
BOTTOM TRENCH = 623.7
TRENCH 2:
EX. GROUND ABOVE = 631.7
INV. IN = 627.7
BOTTOM TRENCH = 623.7
TRENCH 3:
EX. GROUND ABOVE = 630.1
INV. IN = 626.1
BOTTOM TRENCH = 622.1

FFE 641.40
BSE 632.4
INV. OUT OF HOUSE = 634.7
PROP. GROUND AT CLEANOUT #1 = 630.5
INV. INTO CLEANOUT = 634.6
INV. OUT OF CLEANOUT = 633.6
EX. GROUND AT SEPTIC TANK = 636.5
PROP. GRADE ABOVE SEPTIC TANK = 636.5
TOP OF SEPTIC TANK = 633.5
INTO SEPTIC TANK = 632.5
INV. OUT OF SEPTIC TANK = 632.25
EX. GROUND AT DISTRIBUTION BOX = 634.2
INV. INTO DISTRIBUTION BOX = 630.3
INV. OUT OF DISTRIBUTION BOX = 630.2

FIRST REPLACEMENT TRENCH DETAIL
SCALE: 1"=2'



LEGEND

- ② FIELD-LOCATED PASSING PERC TEST LOCATION & NUMBER
- 31A PASSING PERC TESTS DUG IN 1989
- SOIL TYPE BOUNDARY
- WOODLINE/TREES
- LIMITS OF FIELD-RUN TOPOGRAPHY

Approved Septic System Plan
Howard County Health Department
Hank Osuna 12/18/22
Signature Date

SEPTIC SYSTEM
14700 CARRIAGE MILL ROAD
LOT 1 PHASE 1 CARRIAGE MILL FARMS
TAX MAP No. 8 GRID No. 16 PARCEL No. 158
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE 1"=30' DATE: DECEMBER 6, 2022

SEPTIC PROFILE
SCALE: 1"=30'