



**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
Facebook: www.facebook.com/hocohealth

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

RECEIPT DATE: 12/18/24 **ONSITE SEWAGE DISPOSAL SYSTEM** P 587903

APPROVAL DATE: 4/3/2025 (SP) **PERMIT: NEW CONSTRUCTION** A _____

PROPERTY ADDRESS: 548 Watersville Road

SUBDIVISION: Hay Meadow Overlook LOT: 3 TAX ID: _____

CONTRACTOR: Freedom Septic Service EMAIL: christy@freedomseptic.com

CONTRACTOR ADDRESS: 2809 Liberty Road, Sykesville, MD 21784 PHONE: 410-795-2947

PROPERTY OWNER: Jaideep Singh EMAIL: _____

OWNER ADDRESS: 7645 Elmcrest Road, Hanover, MD 21076 PHONE: _____

SEPTIC TANK SIZE: 1500 gal PUMP SIZE: _____ PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>131</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</u>
LOCATION:	SYSTEM TO BE STAKED BY DESIGNER AND VERIFIED BY APPROVING AUTHORITY DURING PRE-CONSTRUCTION INSPECTION.	
NOTES:	Install 2 trenches at 66' in length	

ISSUED BY: Mank O... ISSUE DATE: 1/9/25 EXPIRATION DATE: 12/18/25

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR REGISTERED WITH THE STATE OF MD ON-SITE WASTEWATER PROFESSIONALS BOARD: CONFIRMED 1/9/26 H.O.
- 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 SEPTIC 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: THE HCHD DOES NOT WARRANTY ANY SYSTEM AND CANNOT GUARANTEE THE PERFORMANCE OF THIS SYSTEM AS DESIGNED. BY ACCEPTING THIS PERMIT, THE OWNER AND/OR APPLICANT ACKNOWLEDGE THAT THE SPECIFICATIONS DETAILED IN THIS DESIGN ARE ONE POSSIBLE OPTION AND THAT THE HCHD WILL REVIEW OTHER PROPOSALS. YOU HAVE THE OPTION TO SEEK THE ADVICE OF A QUALIFIED DESIGN CONSULTANT OR PROFESSIONAL ENGINEER FOR FURTHER GUIDANCE.
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- 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

TRENCH/DRAINFIELD DATA

WIDTH INLET BOTTOM

3 2.5-3' 5'

NUMBER OF TRENCHES 2

TOTAL LENGTH 153'

ABSORPTION AREA 459 + Sidelall

DISTRIBUTION BOX LEVEL YES

DISTRIBUTION BOX BAFFLE YES

DISTRIBUTION BOX PORT YES

See separate
Sheet For
AS-Built

* System not installed
Per plan, 2 x 76' trenches
installed on area where
1st replacement system is *

Pre-Construction Notes (contd.)-

2/14/2025 - Installer onsite for layout. measured 2 trenches @ 75',
went down with a 20' from tank below L.O. to make 2.5' inlet.
installer will make system to 2' inlet. Both trenches on
contour with h 1" + 13'-15' between trenches. ok to start install. (SP)
4/13/2025 - Email forwarded to engineer for revised plans (SP)

ROAD NAME

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL YES

MANUFACTURER Babylon

CAPACITY 1500 GAL

SEAM LOC Top

TANK LID DEPTH 1' - 3'

BAFFLES 6" front & 4" back

BAFFLE FILTER

MANHOLE LOC Front & back

6" PORT LOC

WATERTIGHT TEST

SLOTTED YES

DATE ON LID 12/18/2024

PUMP/SEPTIC TANK LEVEL N/A

MANUFACTURER

CAPACITY GAL

SEAM LOC

TANK LID DEPTH

BAFFLES

BAFFLE FILTER

MANHOLE LOC

6" PORT LOC

WATERTIGHT TEST

SLOTTED

DATE ON LID

SEPTIC CONTRACTOR ONSITE INSTALLING SYTEM: Don Farrow
SEPTIC CONTRACTOR ONSITE LICENSED WITH THE STATE OF MD: YES/NO

PRE-CONSTRUCTION NOTES:

1/9/2025 - installer onsite for pre-con. service out of house not realized

25kva contractor to make sewer. Tank started moved due to bio-retention construction, tank needs to be RESTAKED.

SOA not laid out yet. snow on ground, windy & cold. Reschedule for pre-con. (SP/MB) 11/21/2025 - installer onsite for pre-con.

Soil & SOA Staked. trench lengths @ 67', end of lower trench moved up 4.5'. Both trenches on contour. ok to start work. (SP)

INSTALLATION NOTES:

1/30/2025 - installer onsite for inspection. Route found in excavation hole for tank. installer using stone dust under tank. Enough fill
& front bar. seen do used L.O. seen installer dug a unit, & 2 replacement sites, found route in all holes. (SP/MB)

2/18/2025 - installer onsite for inspection. upper trench already dug & staked while onsite. stone dust. Soil test @ 30' of upper
trench bottom. rock seen @ 3'-5'. installer set perforated pipe while onsite & covered w/ stone. installer dug bottom
trench with rock @ 2.5'. moved trench into onsite. perforated pipe set & fabric on top over 10'-11' between
trenches. Levelled d-box while onsite, saw baffle & port. ok to install. (SP)

CONTROL PANEL DATA

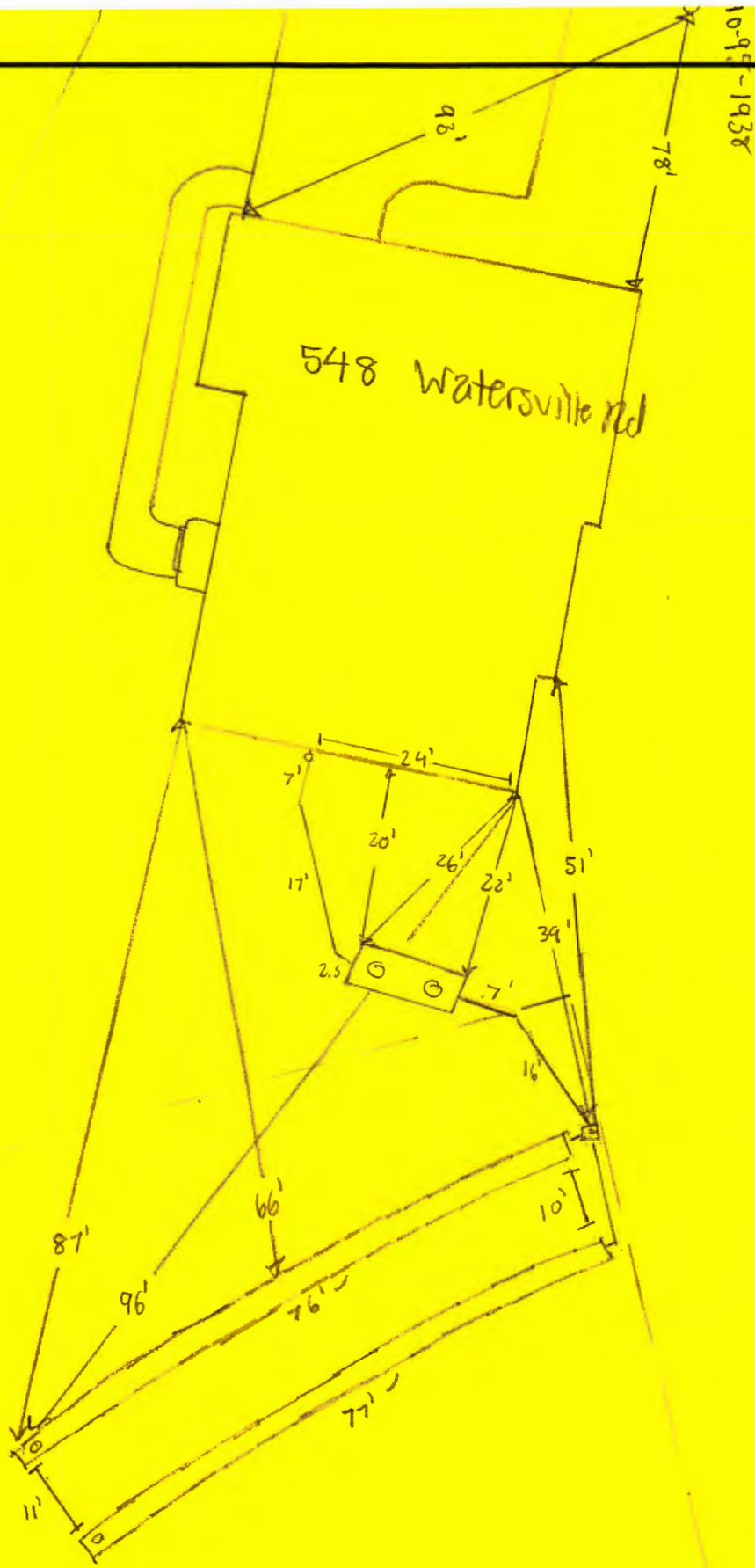
CONTROL PANEL HEIGHT (MIN 30")

INSPECTION DATE

INSPECTION: PASS/FAIL (CIRCLE ONE)

FINAL INSPECTOR S. Page

DATE OF APPROVAL 4/13/2025



NOT TO SCALE
 1" = 20'

(A)



1st replacement



1st replacement

2nd replacement



1st replacement



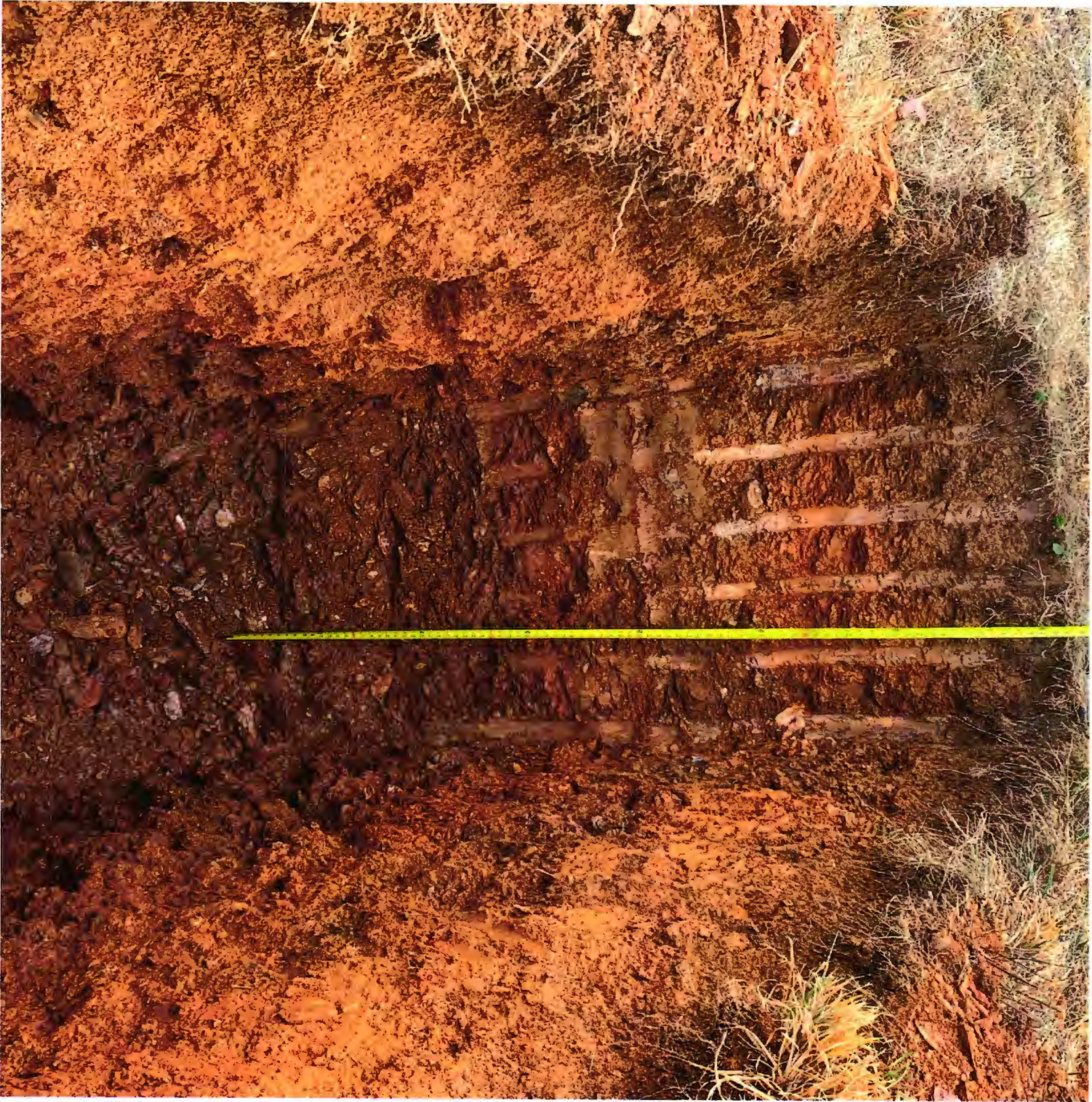
M.B./SP
at 3-5'
staying
2602 road
had

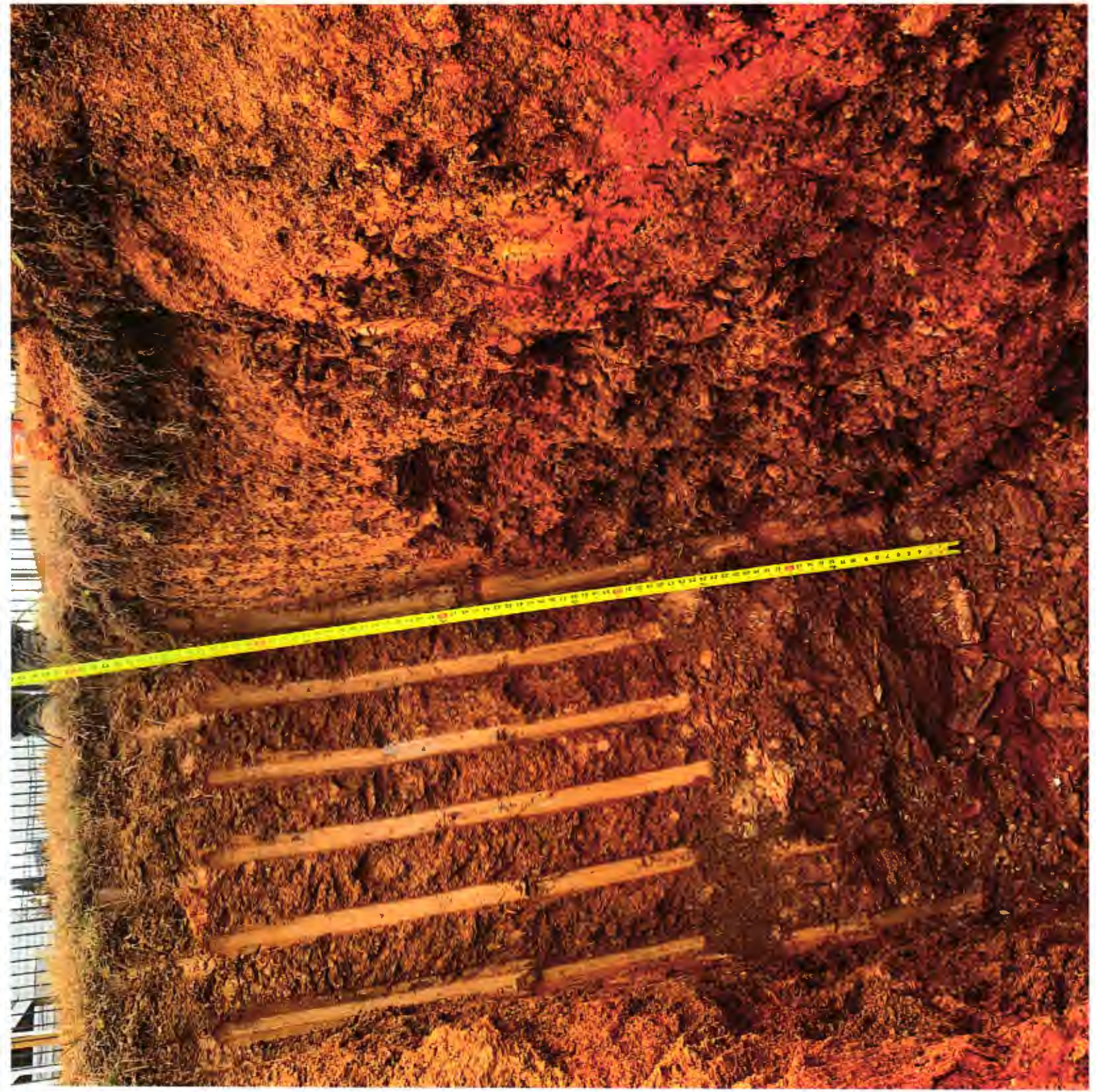
1/30/2025 548 Waterwillie Rd - 3 holes dug @ 1st + 2nd replacement, 3rd 1st replacement, + 2nd replacement. Each hole

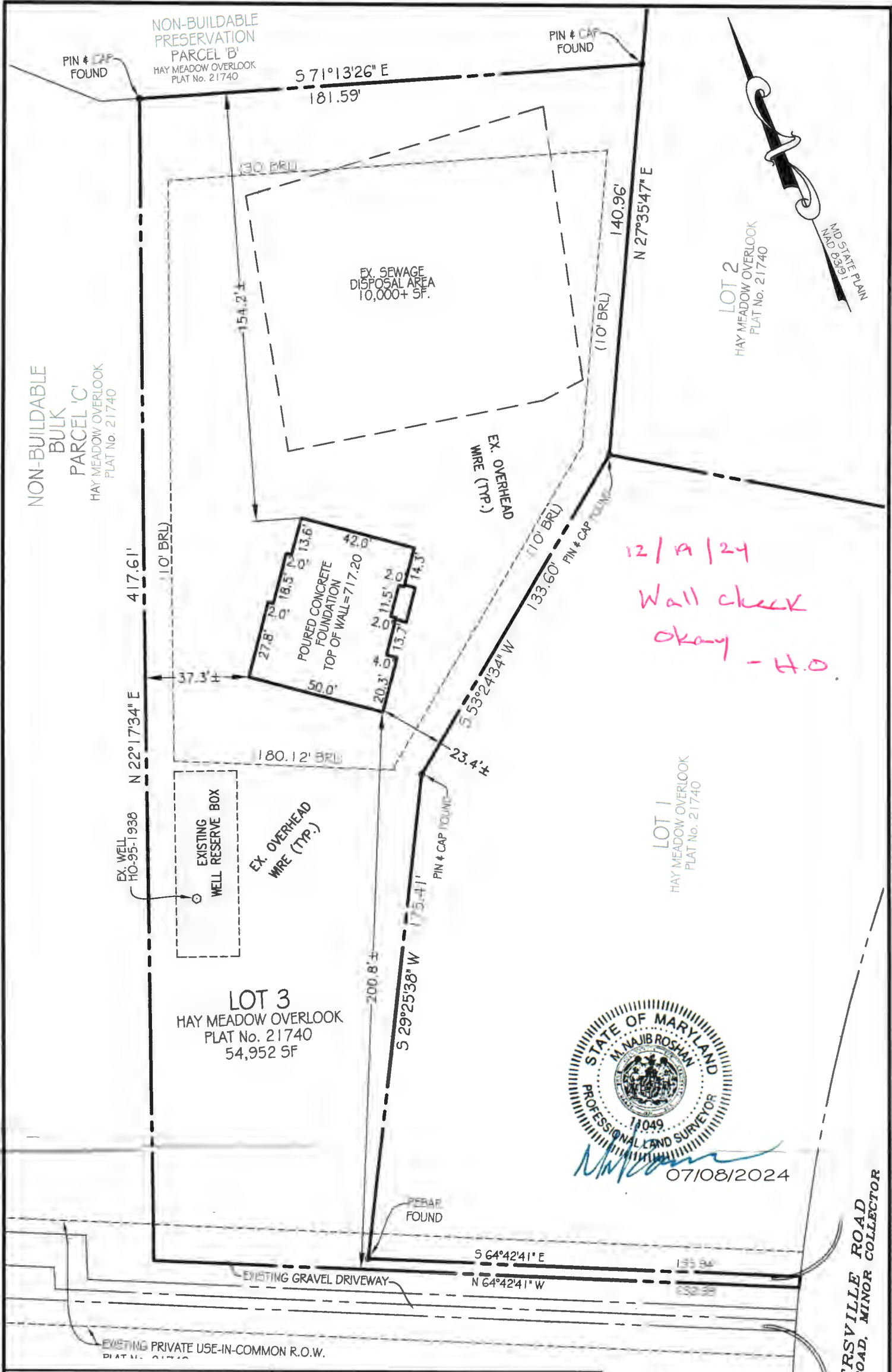
- test @ 1-2'


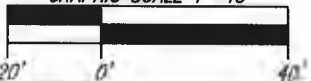
Test pits just below initial trench

W







PREPARED BY:  NJR & ASSOCIATES, LLC. LAND SURVEYING AND PLANNING 2770 TERRAPIN RUN WEST FRIENDSHIP, MD 21794 TEL: (240) 608-3200	WALL CHECK SURVEY HAY MEADOW OVERLOOK LOT 3 PLAT No. 21740 548 WATERSVILLE ROAD, MOUNT AIRY, MD, 21771 TAX MAP 2, GRID 15, PARCEL 18 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND JOB NO.: 3696 DATE : JUL. 8, 2024
	GRAPHIC SCALE 1"=40' 





← (B)

↑ (A)





2nd replacement



2nd replacement



2/18/2025 - on site while lower trench excavated
Rock @ 3'-5'. (SP)



2/18/2025 - onsite white lower trench
excavated. Rock @ 3'-5'. (sp)



2/18/2025 - Onsite while upper trench excavated
rock @ 3'-5'. (S6)

Wolf, Kevin

From: Wolf, Kevin
Sent: Friday, February 7, 2025 1:56 PM
To: 'roshannj@aol.com'; 'scott@oylhomes.com'
Cc: Williams, Jeffrey
Subject: RE: Re-testing | 548 Watersville Road - Hay Meadow Overlook Lot 3

Hello Scott,

So I met with my Director and we have come to a solution that will keep the install moving forward. After review of the site evaluation on Wednesday and comparing that with the original notes from the subdivision, we will keep with a conventional trench design that will be consistent with current regulations while maximizing design standards. The system will be shallower than originally proposed and will also increase the loading rate from 0.8gpd/ft² to 1.2gpd/ft². This is mainly due to the increased permeability with increasing depth to rock on the site; hence why we are shallowing up the trench bottom from 7 feet to 5 feet.

What we would need from Nj is a supplemental sheet showing the new design calculations followed by an as-built plan once the system is installed.

The design specifications are as follows:

Loading rate → 1.2gpd/ft²

Trench bottom → 7 feet

Effective area start depth → 3.5 feet

Total trench length required → 148 feet

I would keep the system inlet shallow as possible. I spoke with Dan (Freedom Septic) and he confirmed that he can make a 2.5 foot inlet invert on the trenches. Ideally, we would like to utilize 2 trenches, keeping them close to perc hole 126, southeast part of the sda.

Hopefully this will clarify the issues we encountered onsite and help keep the project moving. Let me know if you have any questions. I will await Nj's supplemental sheet with the new design spec's. Once I receive this, I will let the septic installer know and we can meet onsite for a pre-construction meeting to discuss.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS
Groundwater Mgmt. Sec. Supervisor
Well & Septic Program
Howard County Health Department
8930 Stanford Blvd.
Columbia, MD 21045
410-313-2645 (Office)
410-313-2648 (Fax)
www.hchealth.org



kwolf@howardcountymd.gov

CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

From: Wolf, Kevin
Sent: Thursday, February 6, 2025 11:10 AM
To: 'roshannj@aol.com' <roshannj@aol.com>; 'scott@oylhomes.com' <scott@oylhomes.com>
Cc: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Subject: RE: Re-testing | 548 Watersville Road - Hay Meadow Overlook Lot 3

Scott,
Update: We are still in review of the outstanding situation with the septic system installation on lot 3 which I will be discussing with my Director later today/tomorrow. I don't believe any more conventional testing is needed on this lot in question. However, it was brought to my attention that, while onsite yesterday, the owner of the development (Phillip Dorsey) mentioned better soil surrounded this lot and inclined the possibility of testing. Can you check with him to see if this is something that he may consider? We just want to have all options available to us moving forward.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS
Groundwater Mgmt. Sec. Supervisor
Well & Septic Program
Howard County Health Department
8930 Stanford Blvd.
Columbia, MD 21045
410-313-2645 (Office)
410-313-2648 (Fax)
www.hchealth.org



kwolf@howardcountymd.gov

CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

From: Wolf, Kevin

Sent: Thursday, February 6, 2025 9:41 AM

To: 'roshannj@aol.com' <roshannj@aol.com>; 'scott@oylhomes.com' <scott@oylhomes.com>

Cc: Williams, Jeffrey <jewilliams@howardcountymd.gov>

Subject: RE: Re-testing | 548 Watersville Road - Hay Meadow Overlook Lot 3

Hello Scott,

I did get your vm. I want to have a chance to review the file against the site evaluation done yesterday before I called you back. We are looking now to see what possible solution(s) can be done. I will keep you posted.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS
Groundwater Mgmt. Sec. Supervisor
Well & Septic Program
Howard County Health Department
8930 Stanford Blvd.
Columbia, MD 21045
410-313-2645 (Office)
410-313-2648 (Fax)
www.hchealth.org



kwolf@howardcountymd.gov

CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

From: roshannj@aol.com <roshannj@aol.com>

Sent: Monday, February 3, 2025 11:05 AM

To: 'scott@oylhomes.com' <scott@oylhomes.com>; Wolf, Kevin <KWolf@howardcountymd.gov>

Cc: 'christy sheubrooks' <christy@freedomseptic.com>; Page, Shepsura <spage@howardcountymd.gov>; Burns, Matthew <mburns@howardcountymd.gov>; Williams, Jeffrey <jewilliams@howardcountymd.gov>; Silvast, Zackary <zsilvast@howardcountymd.gov>; Freemon, Robert <rfreemon@howardcountymd.gov>

Subject: Re: Re-testing | 548 Watersville Road - Hay Meadow Overlook Lot 3

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

Good morning,

Property corners and lines, SDA corners and the existing percolation points are being staked this morning.

Thank you

Najib Roshan, LS
NJR & Associates, LLC
2770 Terrapin Run
West Friendship, MD 21794
PH (240) 508-3200
roshanni@aol.co

On Friday, January 31, 2025 at 01:12:12 PM EST, Wolf, Kevin <kwolf@howardcountymd.gov> wrote:

Scott/Nj,

We have received confirmation with Freedom septic and our office that we will be onsite next Wednesday 2/5 @ 9am to perform the necessary testing/evaluation. We have confirmed property lines, sda and existing perc holes to be staked out prior to testing.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS

Groundwater Mgmt. Sec. Supervisor

Well & Septic Program

Howard County Health Department

8930 Stanford Blvd.

Columbia, MD 21045

410-313-2645 (Office)

410-313-2648 (Fax)

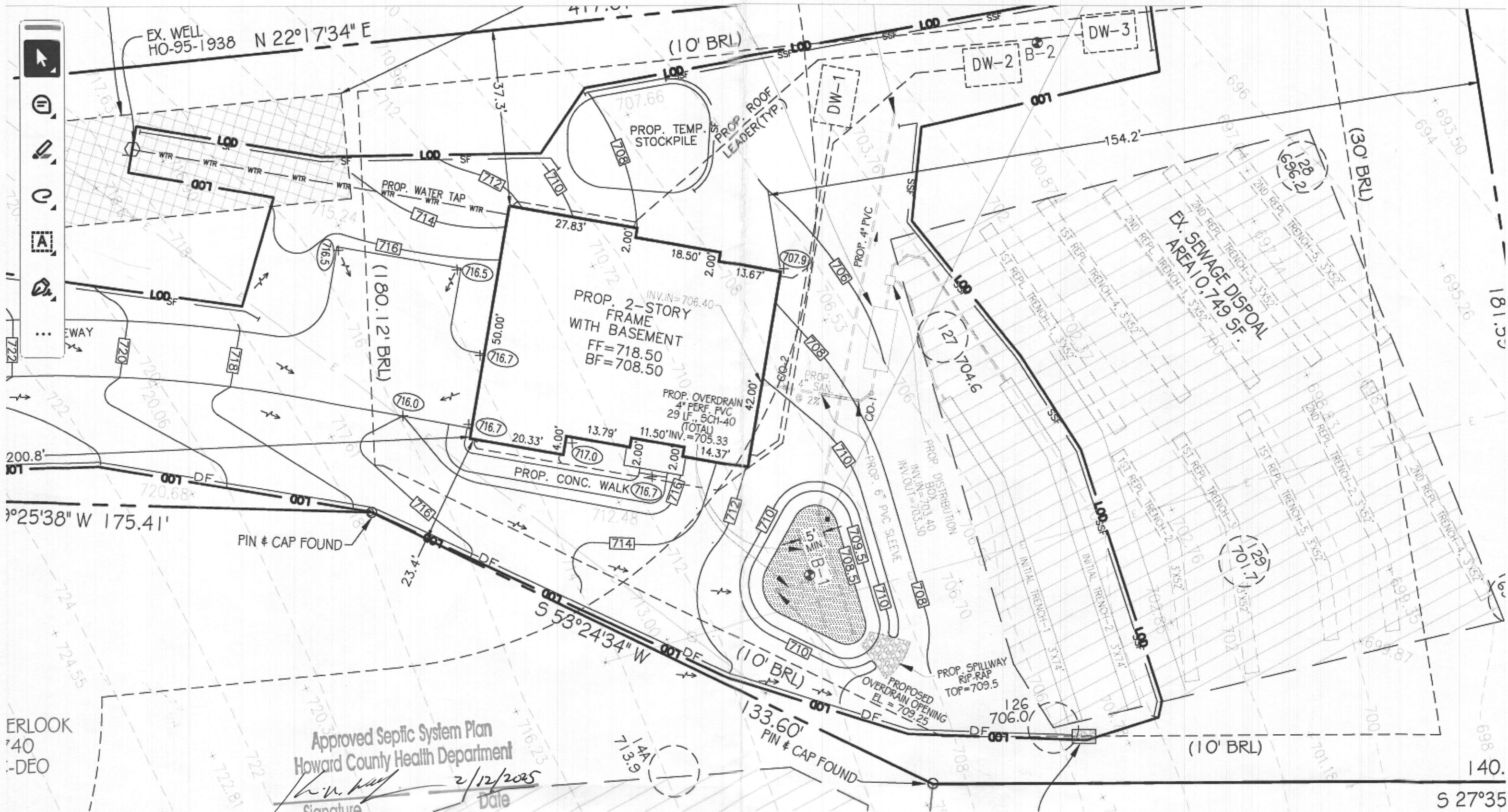
www.hchealth.org



kwolf@howardcountymd.gov

CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.



Approved Septic System Plan
 Howard County Health Department
[Signature]
 Date 2/12/2025

* Approved supplemental plan
 due to issues encountered w/ excessive
 rock w/in sdt. Engineer
 As built to follow -KMW

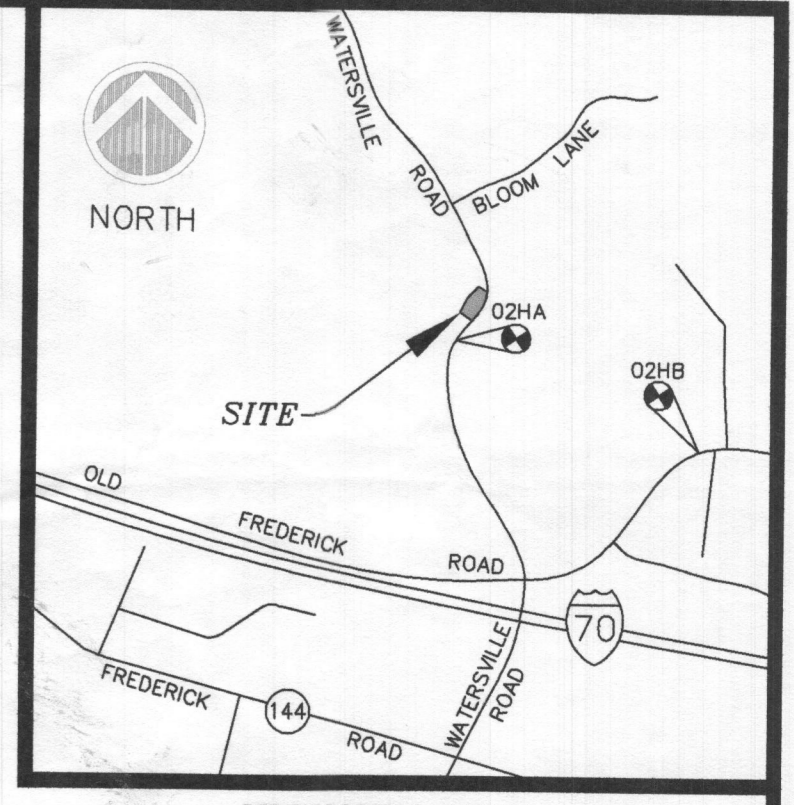
SEPTIC SYSTEM CALCULATIONS, INITIAL SYSTEM	SEPTIC SYSTEM CALCULATIONS, 1ST + 2ND REPLACEMENT SYSTEMS
ABS. RATE= 1.2, EFFECTIVE DEPTH= 3.5'-5' = 1.5'	ABS. RATE= 0.6, EFFECTIVE DEPTH= 3'-5' = 2.0'
DRAINFIELD AREA: 5 BEDROOMS AT 750 gpd / 1.2 ABSORPTION RATE=625 SQ. FT.	DRAINFIELD AREA: 5 BEDROOMS AT 750 gpd / 0.6 ABSORPTION RATE=1250 SQ. FT.
SIDEWALL REDUCTION CREDIT: $\frac{WIDTH+2}{WIDTH+1+2(DEPTH)} = \frac{3+2}{3+1+2(1.5)} = \frac{5}{7} = 0.714$	SIDEWALL REDUCTION CREDIT: $\frac{WIDTH+2}{WIDTH+1+2(DEPTH)} = \frac{3+2}{3+1+2(2)} = \frac{5}{8} = 0.625$
LENGTH OF TRENCHES: $\frac{625 \times 0.714}{3} = 148$ LINEAR FEET	LENGTH OF TRENCHES: $\frac{1250 \times 0.625}{3} = 260$ LINEAR FEET
INITIAL SYSTEMS: TWO TRENCHES OF 74 FEET IN LENGTH EACH, 3 FEET WIDE, 10 FEET MINIMUM SPACED ARE PROVIDED.	REPLACEMENT SYSTEMS: FIVE TRENCHES OF 52 FEET IN LENGTH EACH, 3 FEET WIDE, 10 FEET MINIMUM SPACED ARE PROVIDED.

1" = 20'

MISS-UTILITY NOTE:
 1. CONTACT MISS-UTILITY 72 HOURS BEFORE ANY TRENCHING, (800) 257 - 7777.

BUILDABLE PRESERVATION PARCEL 'A'
 HAY MEADOW OVERLOOK
 PLAT No. 21740
 ZONNING = RC-DEO

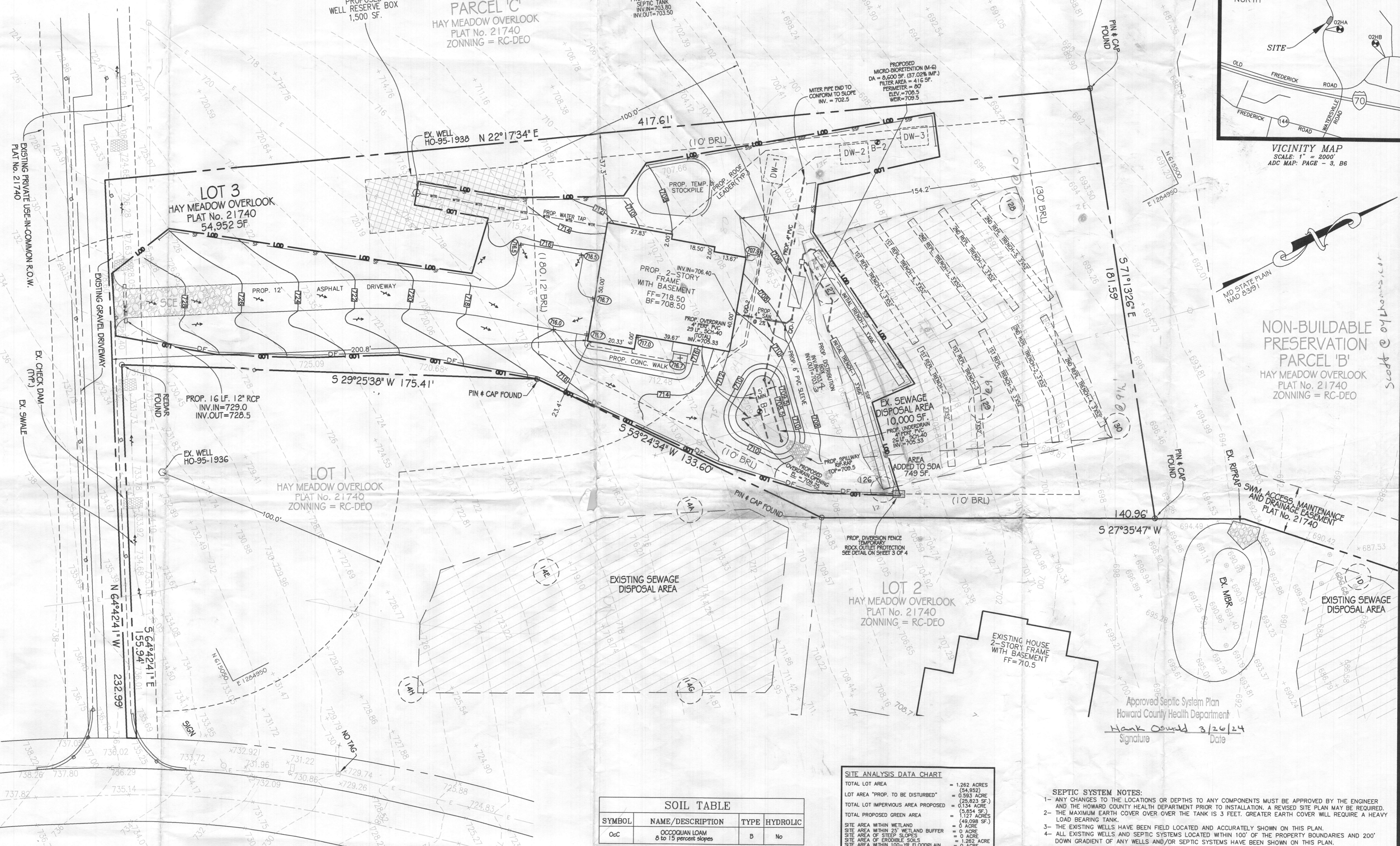
NON-BUILDABLE BULK PARCEL 'C'
 HAY MEADOW OVERLOOK
 PLAT No. 21740
 ZONNING = RC-DEO



VICINITY MAP
 SCALE: 1" = 2000'
 ADC MAP: PAGE - 3, B6

LEGEND:

	EX. ROAD SIGN
	EX. UTILITY POLE
	EX. GUY ANCHOR
	EX. POST
	EX. MAILBOX
	EX. OVERHEAD UTILITY LINE
	EX. WATER WELL
	PROP. SPOT ELEVATION
	EX. CONTOUR
	PROP. CONTOUR
	PROP. MBR DRAINAGE AREA
	PROP. SUPER SILT FENCE
	PROP. SILT FENCE
	PROP. DIVERSION FENCE
	PROP. LIMIT OF DISTURBANCE
	EX. EDGE WOODED AREA
	EX. SEWAGE DISPOSAL AREA
	PROP. WELL RESERVE BOX
	PROP. STABILIZED CONSTRUCTION ENTRANCE
	EX. PASSING PERCOLATION TEST LOCATION



NON-BUILDABLE PRESERVATION PARCEL 'B'
 HAY MEADOW OVERLOOK
 PLAT No. 21740
 ZONNING = RC-DEO

LOT 2
 HAY MEADOW OVERLOOK
 PLAT No. 21740
 ZONNING = RC-DEO

LOT 3
 HAY MEADOW OVERLOOK
 PLAT No. 21740
 54,952 SF

LOT 1
 HAY MEADOW OVERLOOK
 PLAT No. 21740
 ZONNING = RC-DEO

SITE ANALYSIS DATA CHART

TOTAL LOT AREA	= 1.262 ACRES (54,952 SF)
LOT AREA "PROP. TO BE DISTURBED"	= 0.583 ACRE (25,823 SF)
TOTAL LOT IMPERVIOUS AREA PROPOSED	= 0.134 ACRE (5,854 SF)
TOTAL PROPOSED GREEN AREA	= 1.127 ACRES (48,999 SF)
SITE AREA WITHIN WETLAND	= 0 ACRE
SITE AREA WITHIN 25' WETLAND BUFFER	= 0 ACRE
SITE AREA OF STEEP SLOPES	= 0 ACRE
SITE AREA OF ERODIBLE SOILS	= 1.262 ACRE
SITE AREA WITHIN 100'-YR FLOODPLAIN	= 0 ACRE
SITE AREA WITHIN 100' STREAM BUFFER	= 0 ACRE
SITE TOTAL EXISTING FORESTED AREA	= 0 ACRE
SITE ULTIMATE FORESTED AREA	= 0 ACRE

SOIL TABLE

SYMBOL	NAME/DESCRIPTION	TYPE	HYDROLOGIC
OcC	OCCOQUAN LOAM 8 to 15 percent slopes	B	No

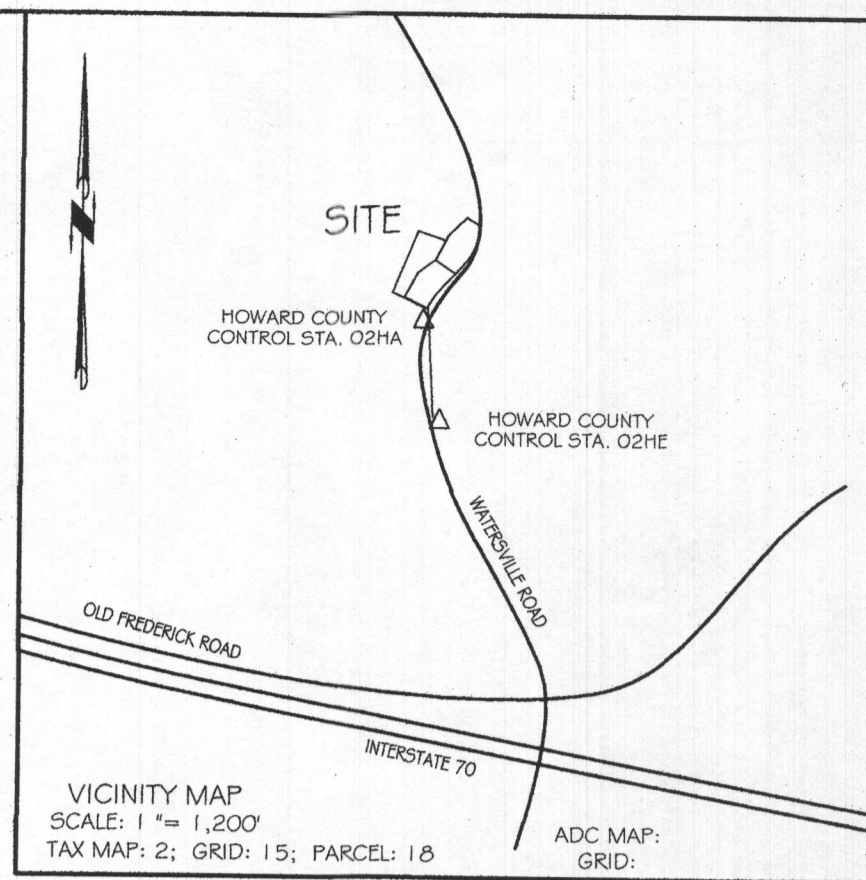
SEPTIC SYSTEM NOTES:

- 1- 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.
- 2- THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- 3- THE EXISTING WELLS HAVE BEEN FIELD LOCATED AND ACCURATELY SHOWN ON THIS PLAN.
- 4- ALL EXISTING 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 ON THIS PLAN.
- 5- THIS SURVEY IS TIED TO MARYLAND STATE PLANE NAD 83/91 COORDINATE SYSTEM.
- 6- THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.

GENERAL NOTES

1. ZONING: RC-DEO. PROPOSED SEWER - PRIVATE; PROPOSED WATER - PRIVATE.
2. THE PLAN IS BASED ON A FIELD RUN BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY NLR & ASSOCIATES IN OCTOBER OF 2023.
3. THE PLAN IS BASED ON THE 2023 MARYLAND STATE PLANE NAD 83/91 COORDINATE SYSTEM.

Approved Septic System Plan
 Howard County Health Department
 Hank Oswald 3/26/24
 Signature Date



SEPTIC SYSTEM TRENCH DESIGN

INITIAL NUMBER OF BEDROOMS = 4
 APPLICATION RATE = 0.8 GPD / sq.ft.
 DESIGN FLOW: 150 GPD X 4 BEDROOMS = 600 GPD
 600 GPD / 0.8 GPD/sq.ft. = 750 sq.ft.
 750 sq.ft. / 3 ft. WIDE TRENCH = 250 LF TRENCH
 250 LF TRENCH X 0.417 REDUCTION CREDIT = 104 LF TRENCH
 TRENCH T1-1 EX. GRD=706.0 - INV. TRENCH=703.5 - B. TRENCH=699.0
 TRENCH T1-2 EX. GRD=705.0 - INV. TRENCH=702.5 - B. TRENCH=698.0

1st REPLACEMENT

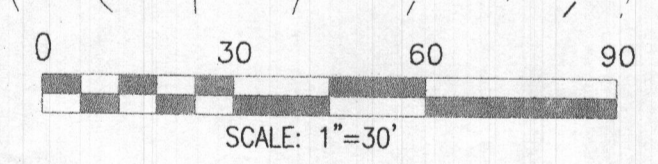
APPLICATION RATE = 0.6 GPD / sq.ft.
 DESIGN FLOW: 150 GPD X 4 BEDROOMS = 600 GPD
 600 GPD / 0.6 GPD/sq.ft. = 1000 sq.ft.
 1000 sq.ft. / 3 ft. WIDE TRENCH = 333 LF TRENCH
 333 LF TRENCH X 0.625 REDUCTION CREDIT = 208 LF TRENCH
 TRENCH 2-1 EX. GRD=703.5 - INV. TRENCH=701.0 - B. TRENCH=698.5
 TRENCH 2-2 EX. GRD=703.5 - INV. TRENCH=701.0 - B. TRENCH=698.5
 TRENCH 2-3 EX. GRD=702.2 - INV. TRENCH=697.7 - B. TRENCH=697.2
 TRENCH 2-4 EX. GRD=702.2 - INV. TRENCH=697.7 - B. TRENCH=697.2

2nd REPLACEMENT

APPLICATION RATE = 0.6 GPD / sq.ft.
 DESIGN FLOW: 150 GPD X 4 BEDROOMS = 600 GPD
 600 GPD / 0.6 GPD/sq.ft. = 1000 sq.ft.
 1000 sq.ft. / 3 ft. WIDE TRENCH = 333 LF TRENCH
 333 LF TRENCH X 0.625 REDUCTION CREDIT = 208 LF TRENCH
 TRENCH 3-1 EX. GRD=700.6 - INV. TRENCH=698.1 - B. TRENCH=695.6
 TRENCH 3-2 EX. GRD=700.6 - INV. TRENCH=698.1 - B. TRENCH=695.6
 TRENCH 3-3 EX. GRD=699.3 - INV. TRENCH=696.8 - B. TRENCH=694.3
 TRENCH 3-4 EX. GRD=699.3 - INV. TRENCH=696.8 - B. TRENCH=694.3

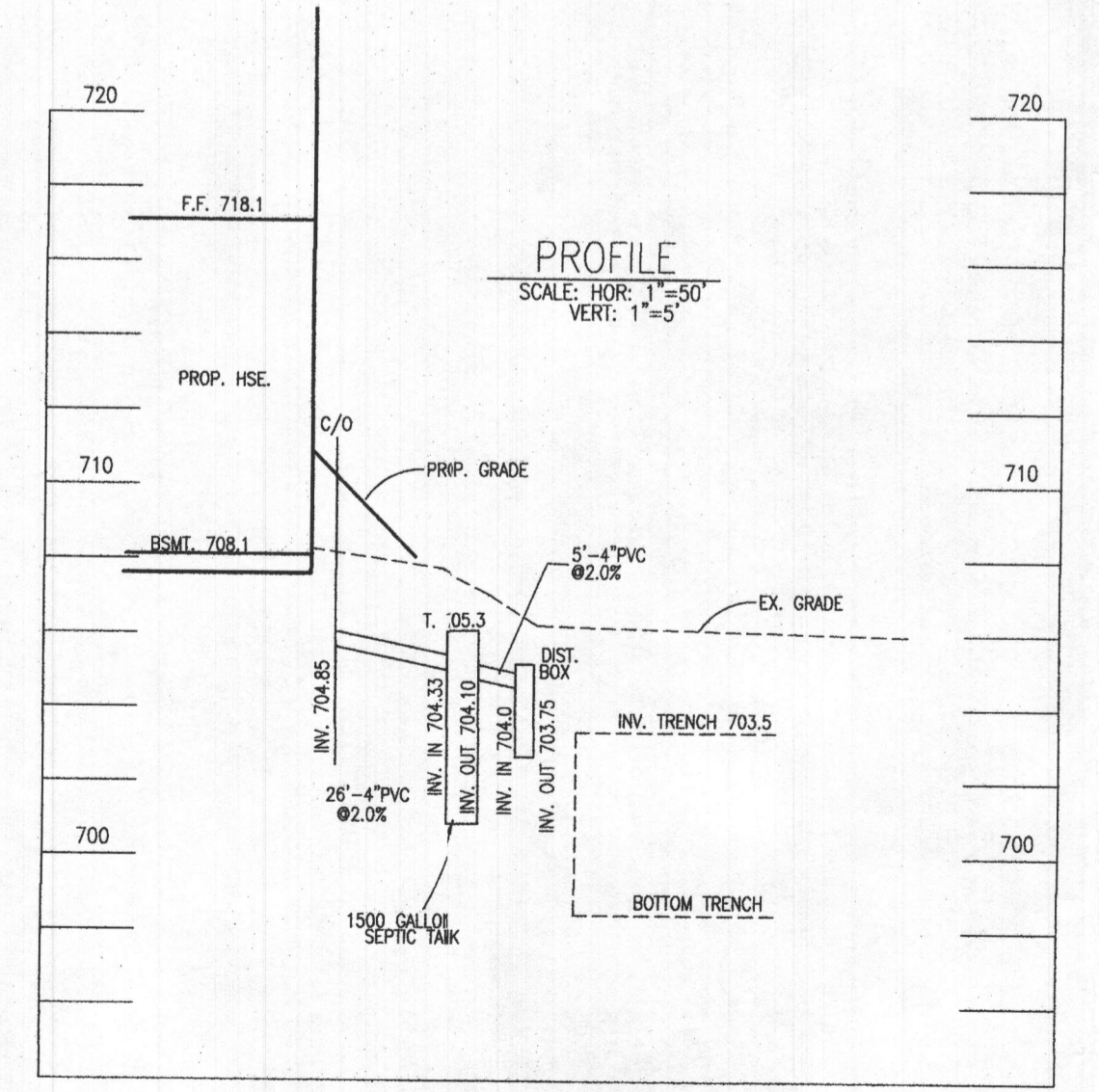
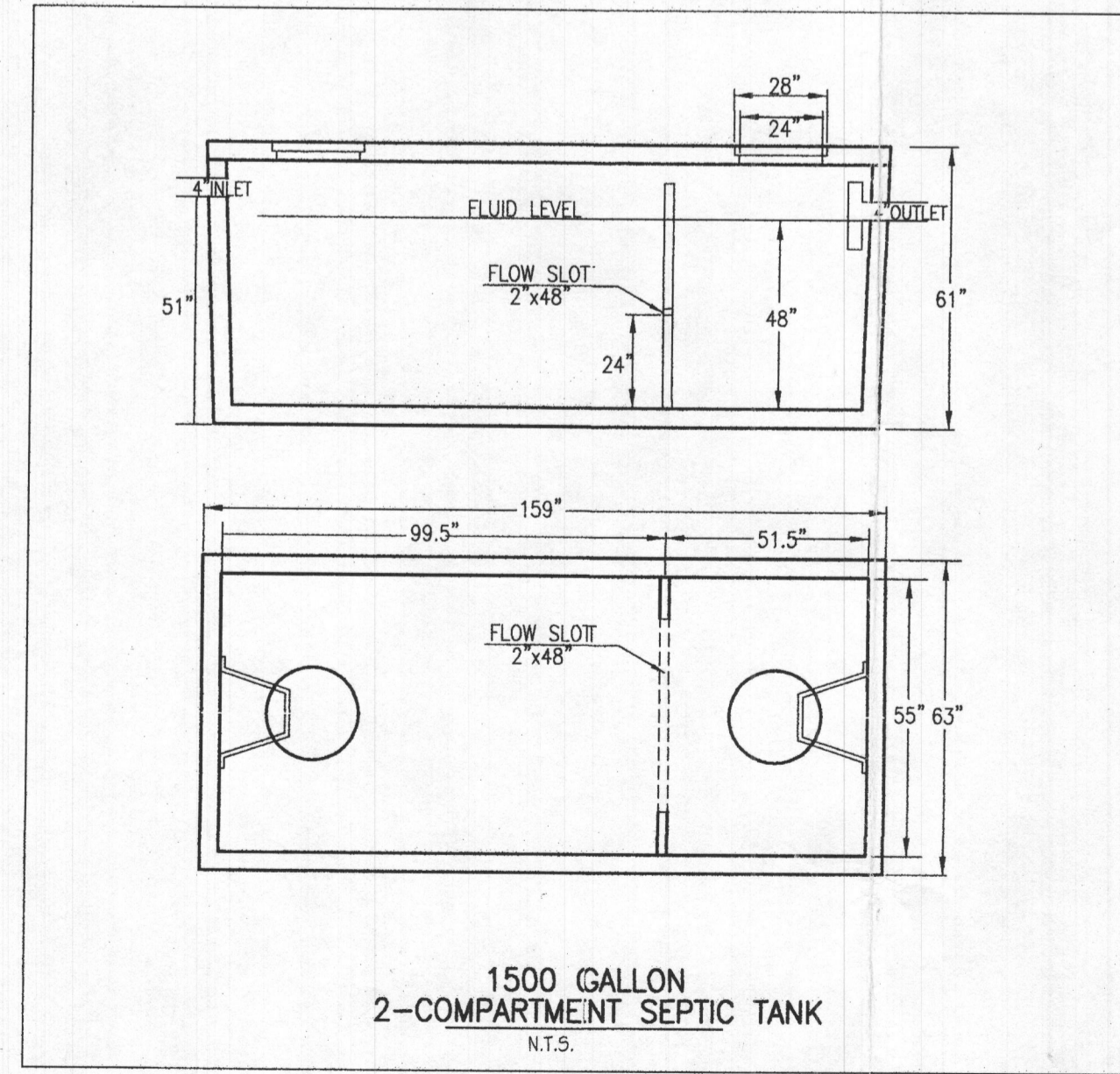
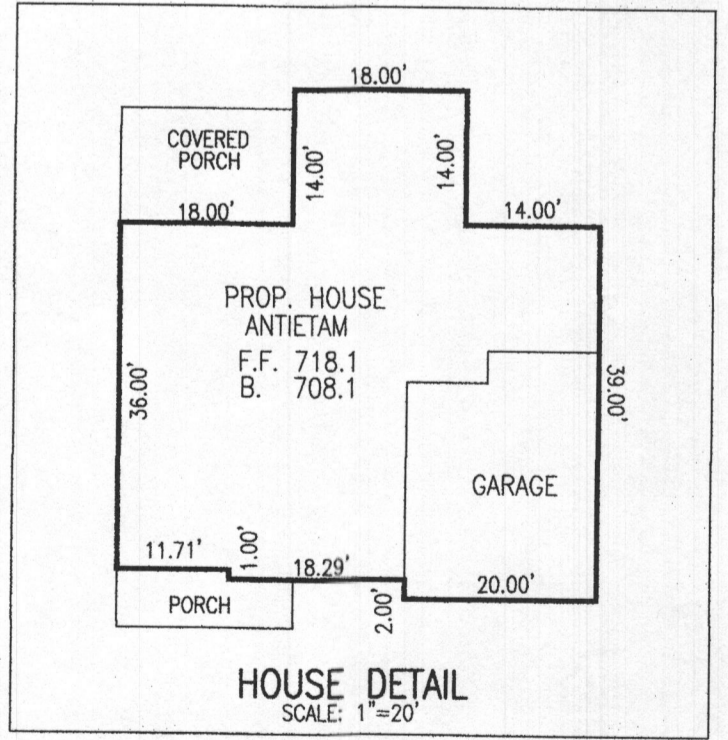
- GENERAL NOTES:**
- TOPOGRAPHY & PLANIMETRIC FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY, SUPPLEMENTED WITH FIELD LOCATIONS BY VANMAR ASSOCIATES, INC. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVD88.
 - THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
 - ZONING DISTRICT: RC-DEO
 - LIMIT OF DISTURBANCE (LOD) = 23,500 SQ.FT.
 - THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS LOT.

- SITE PLAN NOTES:**
- 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.
 - MAXIMUM COVER OVER THE TANK IS 3 FEET. GREATER DEPTH WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
 - THE EX. WELL HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
 - ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADE/OF ANY WELLS AND OR SEPTIC SYSTEMS HAVE BEEN SHOWN.



Approved Septic System Plan
 Howard County Health Department
 1500-gal Septic Tank
 To Gravity Distribution
 for 4-bedroom SFD

Signature _____ Date _____



OWNER:
 PHILLIP H. DORSEY
 13090 OLD FREDERICK ROAD
 SYKESVILLE, MD. 21784

DEVELOPER:
 RYLEA HOMES
 P O BOX 68
 GLENWOOD, MARYLAND 21738
 410-489-6030

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. 18417, Expiration Date: 9-18-21.

DATE	REVISIONS
12/21/20	HD COMMENTS

ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 3
HAY MEADOW OVERLOOK
 548 WATERSVILLE ROAD

TAX MAP: 2
 GRID NO: 15
 PARCEL NO: 18

ELECTION DISTRICT: No. 4
 HOWARD COUNTY, MARYLAND
 EX. ZONING: RC-DEO

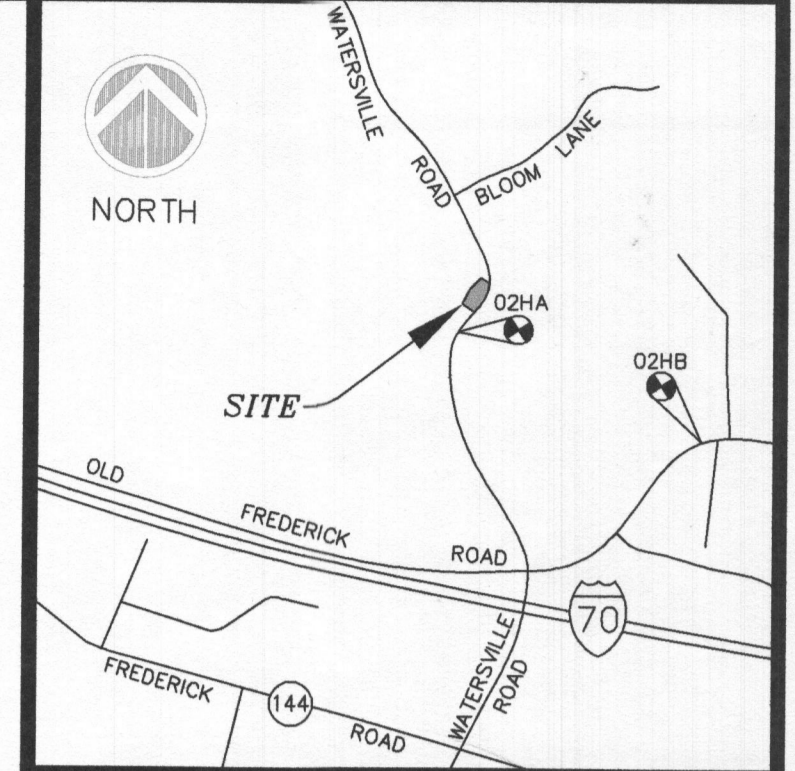
SCALE: AS SHOWN
 DATE: NOVEMBER, 2020
 SHEET 1 OF 1

VANMAR ASSOCIATES, INC.
 Engineers Surveyors Planners
 310 South Main Street Mount Airy, Maryland 21771
 (301) 829-2890 (301) 831-5015 (410) 549-2751
 Fax (301) 831-5603 ©Copyright, Latest Date Shown

MISS-UTILITY NOTE:
1. CONTACT MISS-UTILITY 72 HOURS BEFORE ANY TRENCHING, (800) 257 - 7777.

BUILDABLE PRESERVATION PARCEL 'A'
HAY MEADOW OVERLOOK
PLAT No. 21740
ZONNING = RC-DEO

NON-BUILDABLE PARCEL 'C'
HAY MEADOW OVERLOOK
PLAT No. 21740
ZONNING = RC-DEO

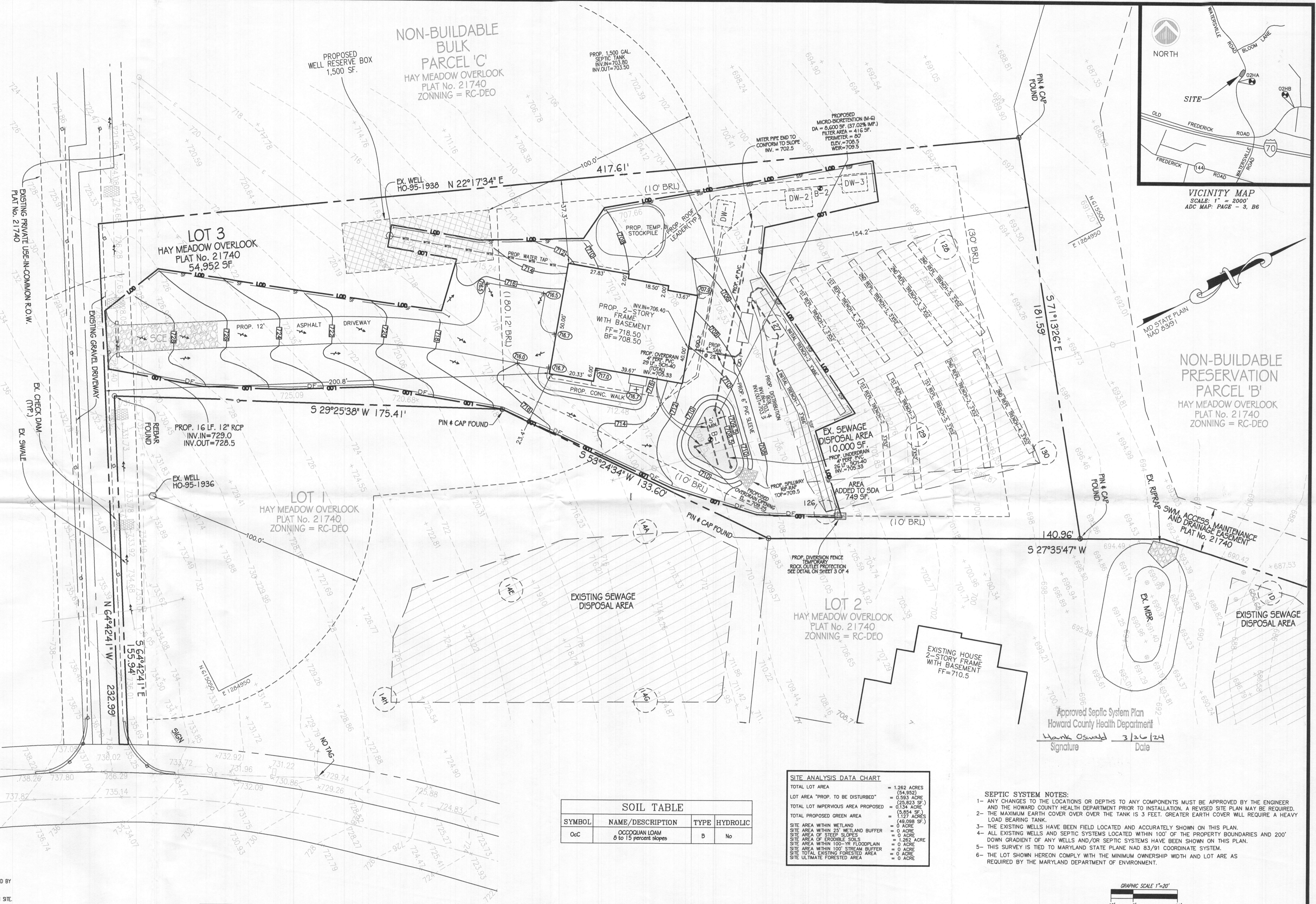


VICINITY MAP
SCALE: 1" = 2000'
ADC MAP: PAGE - 3, B6

NON-BUILDABLE PRESERVATION PARCEL 'B'
HAY MEADOW OVERLOOK
PLAT No. 21740
ZONNING = RC-DEO

LEGEND:

- EX. ROAD SIGN
- EX. UTILITY POLE
- EX. GUY ANCHOR
- EX. POST
- EX. MAILBOX
- EX. OVERHEAD UTILITY LINE
- EX. WATER WELL
- PROF. SPOT ELEVATION
- EX. CONTOUR
- PROF. CONTOUR
- PROF. MDR DRAINAGE AREA
- PROF. SUPER SILT FENCE
- PROF. SILT FENCE
- PROF. DIVERSION FENCE
- PROF. LIMIT OF DISTURBANCE
- EX. EDGE WOODED AREA
- EX. SEWAGE DISPOSAL AREA
- PROF. WELL RESERVE BOX
- PROF. STABILIZED CONSTRUCTION ENTRANCE
- EX. PASSING PERCOLATION TEST LOCATION



- GENERAL NOTES**
- ZONING: RC-DEO
 - PROPOSED SEWER - PRIVATE; PROPOSED WATER - PRIVATE
 - THE PLAN IS BASED ON A FIELD RUN BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY NJR & ASSOCIATES IN OCTOBER OF 2023.
 - THERE IS NO FLOODPLAIN, WETLAND, STREAMS OR THEIR BUFFERS ON THIS SITE.
 - THERE ARE NO CRITICAL HABITATS OF RARE, THREATENED OR ENDANGERED SPECIES ON SITE.
 - TOTAL AREA WITHIN LOD = 22,732 SQ.FT.
 - WATERSHED = SOUTH BRANCH PATAPSCO.
 - REVIEW OF THIS PLAN FOR COMPLIANCE WITH THE ZONING AND SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SHALL OCCUR AT THE PERMIT STAGE; AND THEREFORE, THIS PLAN IS SUBJECT TO ADDITIONAL AND MORE DETAILED COMMENTS AS THIS PLAN PROGRESSES THROUGH THE PERMIT PROCESS.
 - EXISTING PASSING SEPTIC PERCOLATION TESTS WITH ADEQUATE INFILTRATION RATES ARE LOCATED WITHIN 50' OF THE PROPOSED STORM WATER MANAGEMENT FACILITY; THEREFOR, NO ADDITIONAL SOIL TESTS ARE PROPOSED.
 - PREVIOUS HOWARD COUNTY FILE NUMBERS: F-09-110, F-19-089 AND SP-08-011.
 - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 ATLEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
 - CONTRACTOR TO MAINTAIN POSITIVE SLOPE AWAY FROM THE FOUNDATION OF THE HOUSE.

SOIL TABLE

SYMBOL	NAME/DESCRIPTION	TYPE	HYDROLIC
OcC	OCCOQUAN LOAM 0 to 15 percent slopes	B	No

SITE ANALYSIS DATA CHART

TOTAL LOT AREA	= 1.282 ACRES (54,952 SF)
LOT AREA "PROP. TO BE DISTURBED"	= 0.593 ACRES (25,823 SF)
TOTAL LOT IMPERVIOUS AREA PROPOSED	= 0.134 ACRES (5,854 SF)
TOTAL PROPOSED GREEN AREA	= 1.127 ACRES (48,098 SF)
SITE AREA WITHIN WETLAND	= 0 ACRES
SITE AREA WITHIN 25' WETLAND BUFFER	= 0 ACRES
SITE AREA OF STEEP SLOPES	= 0 ACRES
SITE AREA OF ERODIBLE SOILS	= 1.282 ACRES
SITE AREA WITHIN 100-YR FLOODPLAIN	= 0 ACRES
SITE AREA WITHIN 100' STREAM BUFFER	= 0 ACRES
SITE TOTAL EXISTING FORESTED AREA	= 0 ACRES
SITE ULTIMATE FORESTED AREA	= 0 ACRES

- SEPTIC SYSTEM NOTES:**
- 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.
 - THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - THE EXISTING WELLS HAVE BEEN FIELD LOCATED AND ACCURATELY SHOWN ON THIS PLAN.
 - ALL EXISTING 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 ON THIS PLAN.
 - THIS SURVEY IS TIED TO MARYLAND STATE PLANE NAD 83/91 COORDINATE SYSTEM.
 - THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.

REVISIONS

No.	DESCRIPTION	DATE
1		

PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 11049 WITH EXPIRATION DATE OF FEBRUARY 10, 2025.

DATE: FEBRUARY 12, 2024

DEVELOPER
OYL HOMES, LLC.
6100 DAYLONG LANE, SUITE-100
CLARKSVILLE, MD 21029
CONTACT: Mr. Gregory B. Phillips
(410) 948-7046

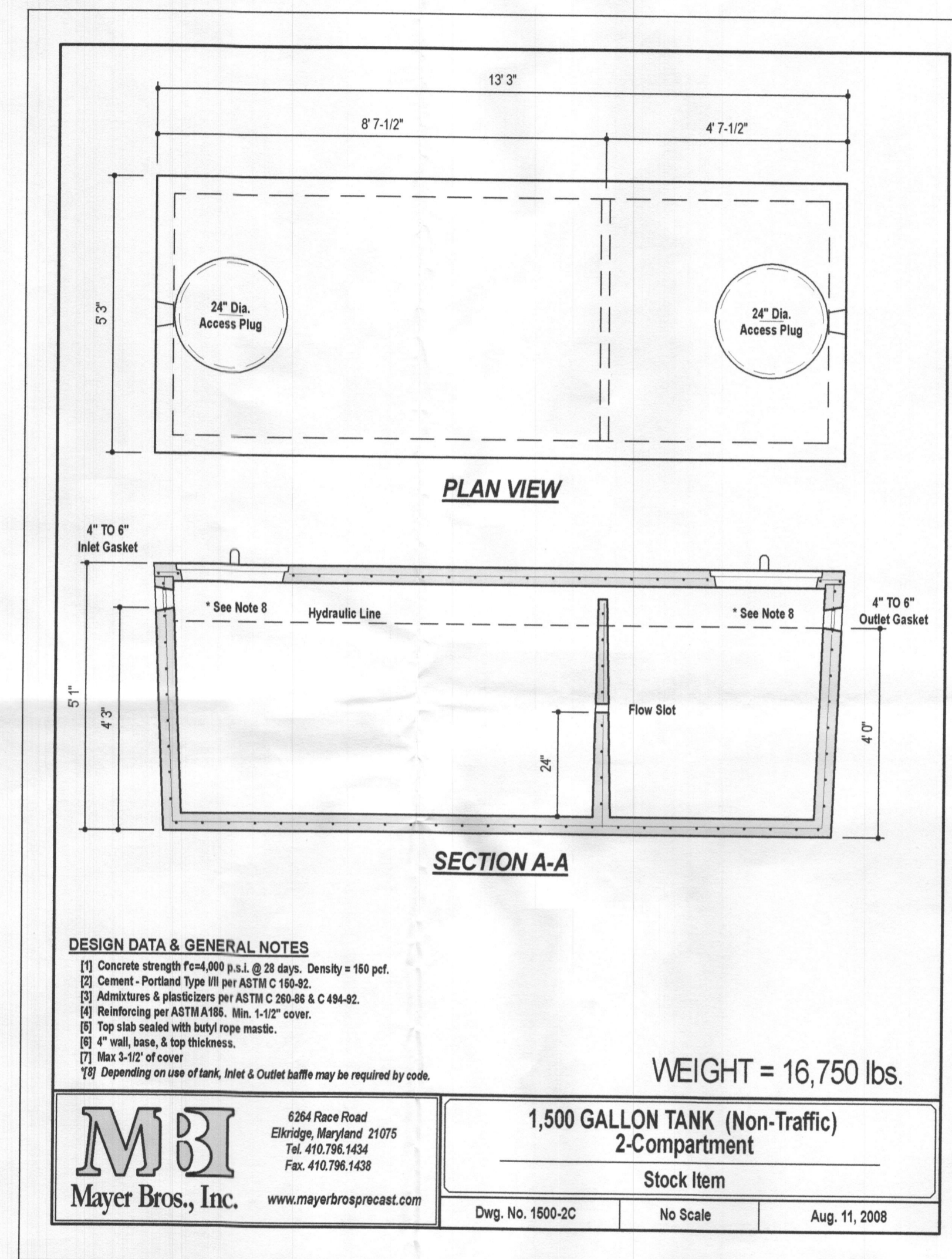
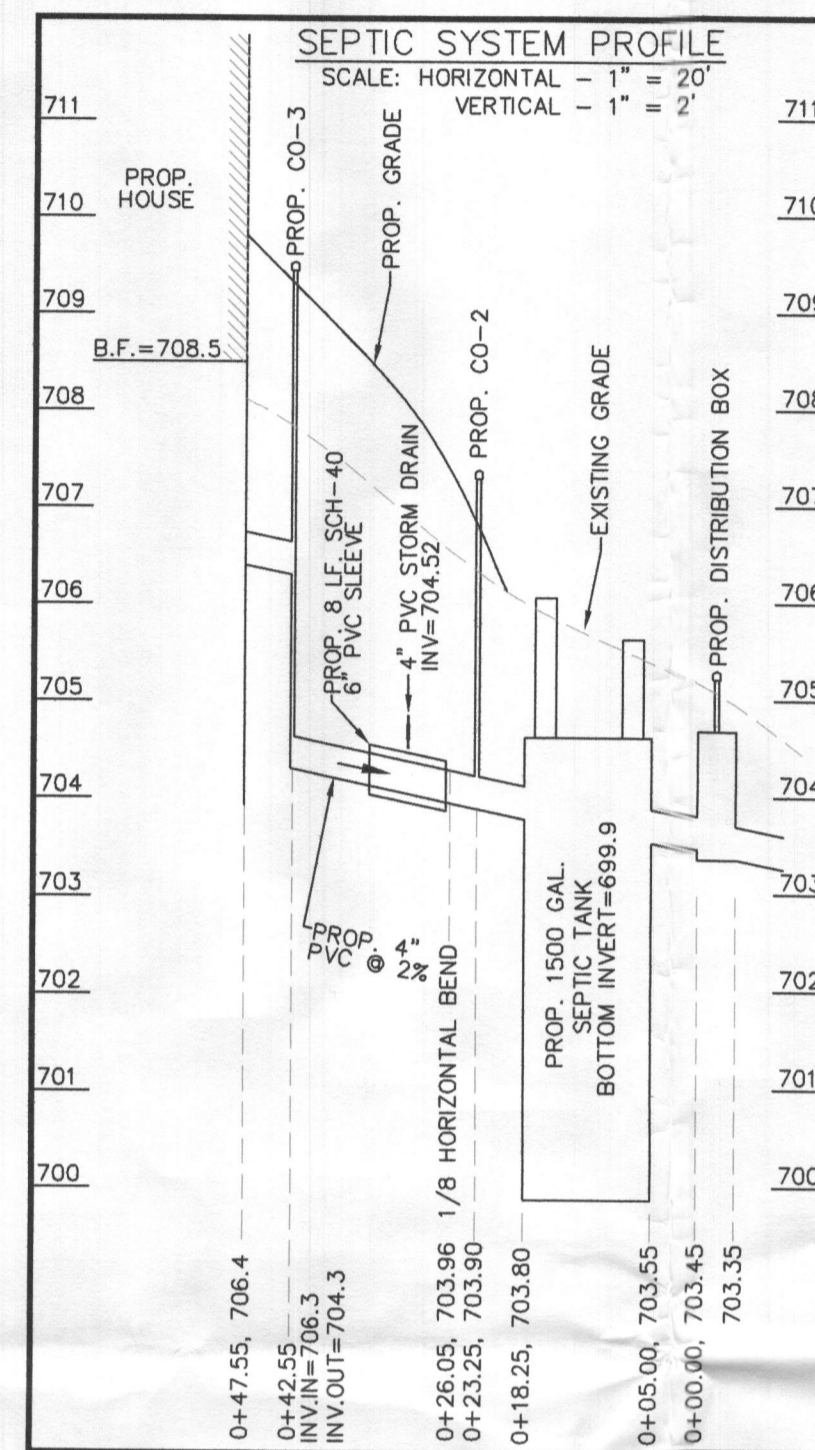
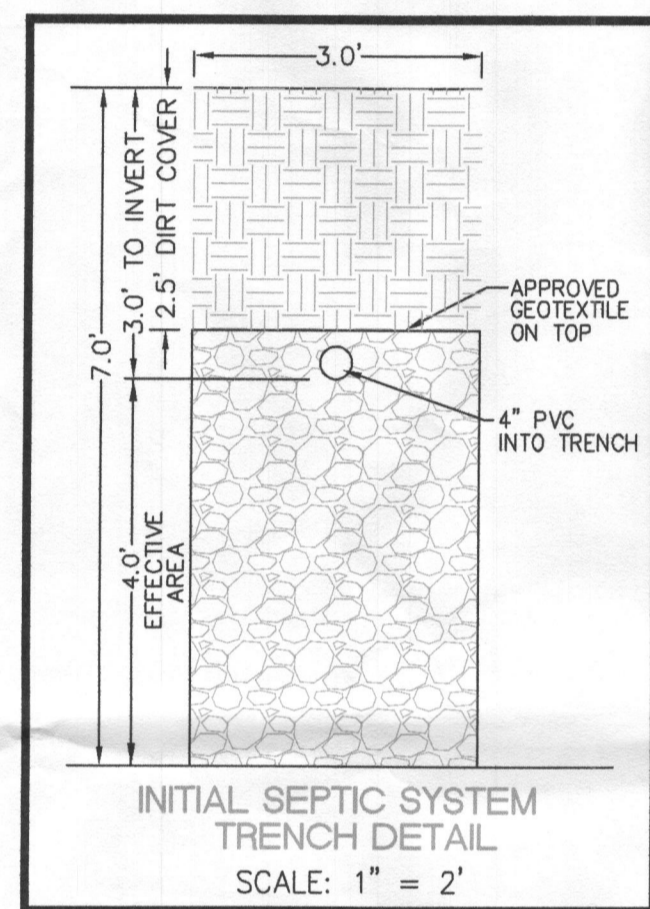
OWNER
JAIDEEP SINGH JONEJA
7645 ELMCREST ROAD
HANOVER, MD 21076
jjoneja@gmail.com

PLAN PREPARED BY:
NJR & ASSOCIATES
Land Surveying and Planning
2770 TERRAPIN RUN
WEST FRIENDSHIP, MD 21794
TEL: (240) 608-3200

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
HAY MEADOW OVERLOOK
LOT 3
PLAT No. 21740
548 WATERSVILLE ROAD, MOUNT AIRY, MD, 21771
TAX MAP 2, GRID 15, PARCEL 1B
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1" = 20'
JOB NO.: 3696
DATE: DEC. 12, 2023
SHEET: 1 OF 2

MISS-UTILITY NOTE:
 1. CONTACT MISS-UTILITY 72 HOURS BEFORE ANY TRENCHING, (800) 257 - 7777.



SEPTIC TRENCH INFO, INITIAL SYSTEM					
TRENCH	TRENCH LENGTH	TRENCH WEDTH	EX. TOP OF GROUND	TOP OF GRAVEL	BOTTOM OF TRENCH
1	66'	3'	705.7±	703.2	702.7
2	66'	3'	704.2±	701.7	701.2

SEPTIC SYSTEM CALCULATIONS, INITIAL SYSTEM:
 ABS. RATE= 0.8, EFFECTIVE DEPTH= 3'-7" = 4.0'
 DRAINFIELD AREA: 5 BEDROOMS AT 750 gpd / 0.8 ABSORPTION RATE=938 SQ. FT.
 SIDEWALL REDUCTION CREDIT: $\frac{WIDTH+2}{3+1+2(4)} = \frac{3+2}{12} = \frac{5}{12} = 0.42$
 LENGTH OF TRENCHES: $\frac{938 \times 0.42}{3} = 131$ LINEAR FEET
 INITIAL SYSTEMS: TWO TRENCHES OF 66 FEET IN LENGTH EACH, 3 FEET WIDE, 11 FEET MINIMUM SPACED ARE PROVIDED.

SEPTIC SYSTEM CALCULATIONS, 1ST + 2ND REPLACEMENT SYSTEMS:
 ABS. RATE= 0.6, EFFECTIVE DEPTH= 3'-5" = 2.0'
 DRAINFIELD AREA: 5 BEDROOMS AT 750 gpd / 0.6 ABSORPTION RATE=1250 SQ. FT.
 SIDEWALL REDUCTION CREDIT: $\frac{WIDTH+2}{3+1+2(2)} = \frac{3+2}{8} = \frac{5}{8} = 0.625$
 LENGTH OF TRENCHES: $\frac{1250 \times 0.625}{3} = 260$ LINEAR FEET
 INITIAL SYSTEMS: FIVE TRENCHES OF 52 FEET IN LENGTH EACH, 3 FEET WIDE, 10 FEET MINIMUM SPACED ARE PROVIDED.

- DESIGN DATA & GENERAL NOTES**
- [1] Concrete strength F=4,000 p.s.i. @ 28 days. Density = 150 pcf.
 - [2] Cement- Portland Type III per ASTM C-150-92.
 - [3] Admixtures & plasticizers per ASTM C 260-96 & C 494-92.
 - [4] Reinforcing per ASTM A198. Min. 1-1/2" cover.
 - [5] Top slab sealed with butyl rope mastic.
 - [6] 4" wall, base, & top thickness.
 - [7] Max 3-1/2" of cover
 - [8] Depending on use of tank, Inlet & Outlet baffle may be required by code.

MB
 Mayer Bros., Inc. www.mayerbrosprecast.com

1,500 GALLON TANK (Non-Traffic) 2-Compartment
 Stock Item
 Dwg. No. 1500-2C No Scale Aug. 11, 2008

WEIGHT = 16,750 lbs.

No.	REVISIONS DESCRIPTION	DATE
1		

PROFESSIONAL CERTIFICATE
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 11049 WITH EXPIRATION DATE OF FEBRUARY 10, 2025.
 SIGNATURE: [Signature] DATE: FEBRUARY 12, 2024

DEVELOPER
 OYL HOMES, LLC.
 6100 DAYLONG LANE, SUITE-100
 CLARKSVILLE, MD 21029
 CONTACT: Mr. Gregory B. Phillips
 (410) 948-7046
OWNER
 JAIDEEP SINGH JONEJA
 7645 ELMCREST ROAD
 HANOVER, MD 21076
 jjoneja@gmail.com

PLAN PREPARED BY:
NJR & ASSOCIATES
 Land Surveying and Planning
 2770 TERRAPIN RUN
 WEST FRIENDSHIP, MD 21794
 TEL: (240) 508-3200

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
HAY MEADOW OVERLOOK
 LOT 3
 PLAT No. 21740
 548 WATERSVILLE ROAD, MOUNT AIRY, MD, 21771
 TAX MAP 2, GRID 15, PARCEL 18
 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 20' JOB NO.: 3696 DATE : DEC. 12, 2023 SHEET : 2 OF 2

