



Howard County  
Health Department

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

**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)

RECEIPT DATE: 3/4/22 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 570982

APPROVAL DATE: 11/18/22 **PERMIT: CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 5517 Jacks Landing Way Clarksville, MD 21144

SUBDIVISION: Jack's Landing, Phase II LOT: 6 TAX ID: n/a

CONTRACTOR: Chris Eby EMAIL: ceby@valleyroad.net

CONTRACTOR ADDRESS: Valley Road Enterprises PHONE: 443-927-6063

PROPERTY OWNER: Vijay & Kiranmayi Adimoolam EMAIL: 443-927-6063

OWNER ADDRESS: 7021 Garden Walk Columbia, MD 21044 PHONE: 301-261-0277

SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: Babylon Vault

PUMP MODEL: n/a PUMP SIZE n/a PUMP TANK CAPACITY: n/a

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

TRENCHES:	LINEAR FEET REQUIRED: <u>195</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>6</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 4 trenches of 49 feet in length	

ISSUED BY: Robert Freemon ISSUE DATE: 3/4/2022 EXPIRATION DATE: 3/4/2024

**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 n/a

**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'	4'	8'
NUMBER OF TRENCHES		4'
TOTAL LENGTH		195'
ABSORPTION AREA		585 sq ft + sidewalk
DISTRIBUTION BOX LEVEL		Speed
DISTRIBUTION BOX BAFFLE		brick
DISTRIBUTION BOX PORT		

**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL yes  
 MANUFACTURER Balkriver  
 CAPACITY 1500 GAL  
 SEAM LOC top  
 TANK LID DEPTH 2.5  
 BAFFLES \_\_\_\_\_  
 BAFFLE FILTER \_\_\_\_\_  
 MANHOLE LOC inlet + outlet  
 6" PORT LOC \_\_\_\_\_  
 WATERTIGHT TEST \_\_\_\_\_  
 SLOTTED \_\_\_\_\_  
 DATE ON LID 10-22-22

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 \_\_\_\_\_

See separate sheet  
for AS-Built

9/27/2022 Revised OSDS approved, reflects new location of RO trench. (KM)

9/28/22 - Site inspection for open R/O trench. 4' x 105', 8' deep, contractor did not have most recent approved OSDS plan and dug the trench for the R/O line into the house in the wrong location ok to continue. - reinspect R/O trench for stone, fabric & inlet and perforated pipe, line from house not constructed yet, sewer line already backfilled w/ c/o on the inside of the house, will add approximately where the sewer line is on the AS-Built. (KM)

ROAD NAME

**PRE-CONSTRUCTION:**

6/21/22 met on-site w/ contractor. Area not very overgrown, was able to verify top. Slightly off by 4"-6". Hold elevation's on trench ends. Push trucks down by 3'. may need to move S.T. uphill and closer to house to meet 5' setback to trenches. Need to verify sit inverts. Contractor wants to start trenches first. will need open trench inspection. (KM)

**INSTALLATION:**

6/22/22 First trench partially installed (SF) 6/24/22 Tank set, d-box set, two trenches installed (SF) 6/28/22 AM Dry hole, with 6" PVC casing, grouted, found 3' from end of lower trench. Virgin soil wall was maintained 15' from end of trench. Will cut 15' off end of trench and extend other end of trench 15' towards house, which will leave it 24' from house. Center feed will be moved so that there will still be 2x19' trenches (SF) 6/28/22 P.M. Lower 2x49' trenches complete. (SF) 6/29/22 Piping from d-box to trenches installed (SF) 6/30/22 D-box installed backwards (SF)

09/16/2022 RO IN FILL STOP WORK 09/17/2022 LAND OUT NEW RO CONFIRM SPECS, GAVE NEW PLANS; MARKED 100' WELL ARC. 09/29/2022 RO TRENCH INSTALLED

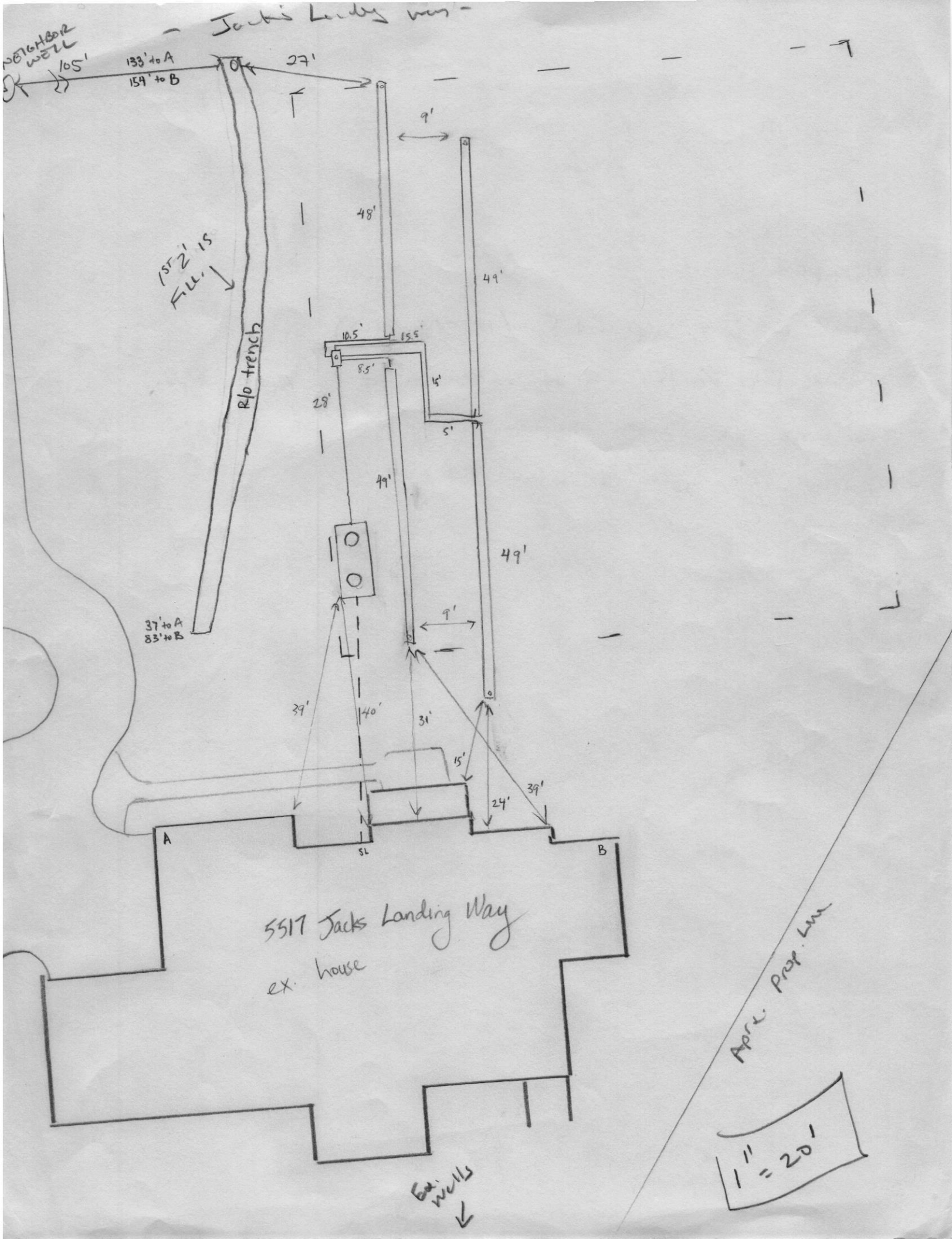
FINAL INSPECTOR

K. King

DATE OF APPROVAL

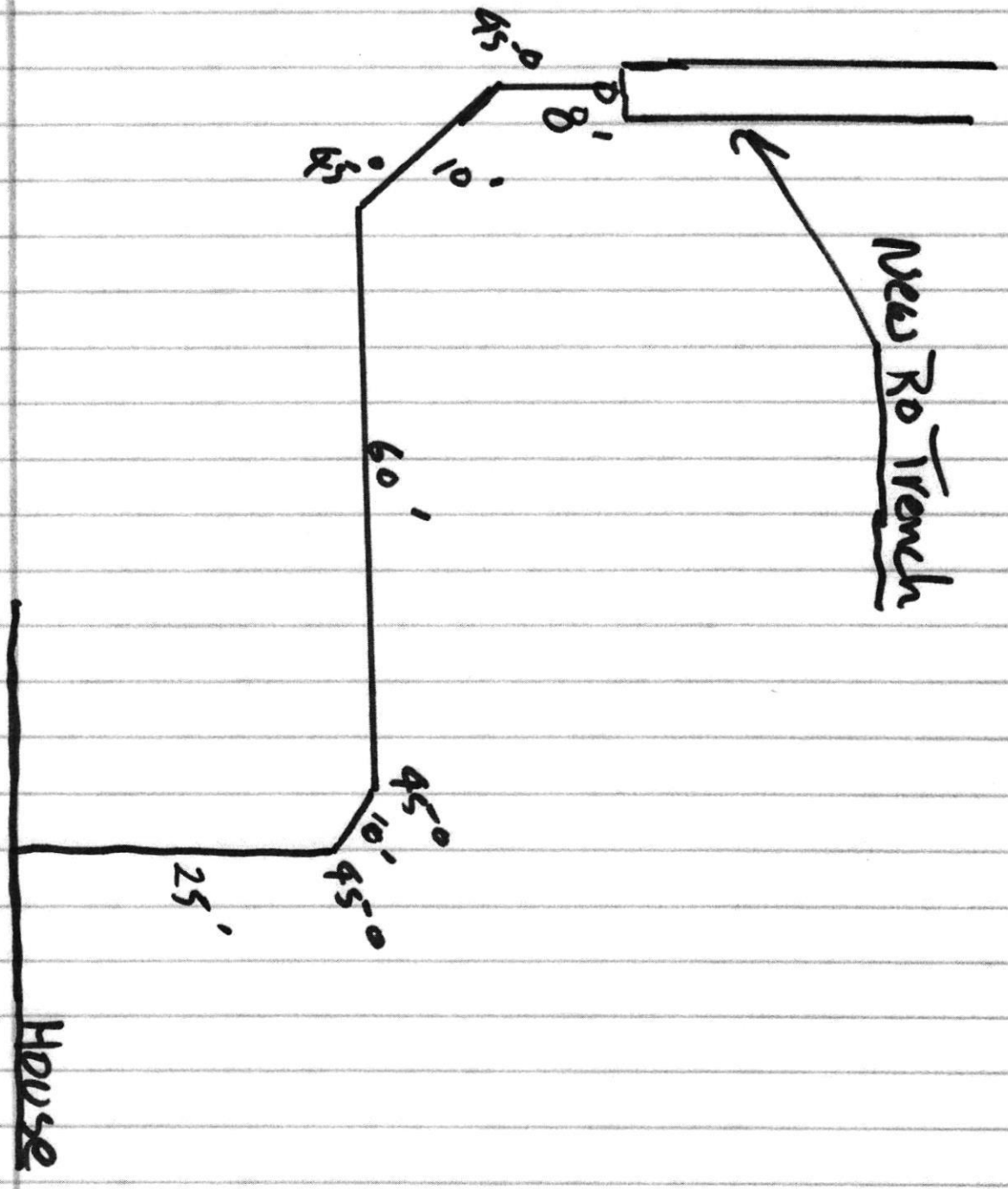
11/18/22

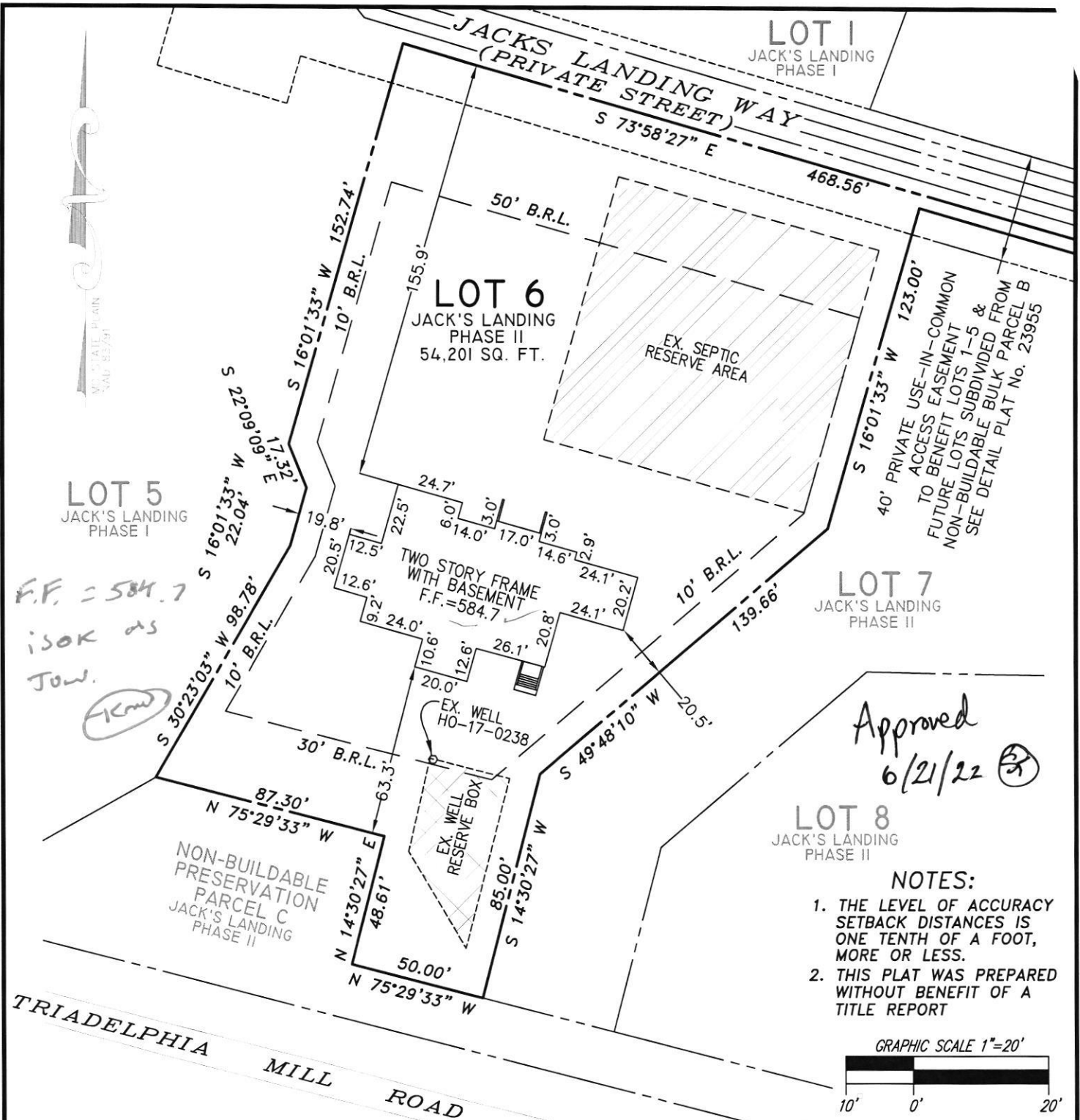
11/23/2022 AS-built rec'd from contractor. (KM)



- New plan
- show well use for Lot 5 (HO-14-0113)
- propose RO Tank, 4 ft wide, x 100' @ 1007 gpd/ft
- 10' dia. re. water system
- stress the RO system to reclaim 1.5'

JACK LANDING LOT # 6 RO TRENCH AS BUILT





LOT 5  
JACK'S LANDING  
PHASE I

F.F. = 584.7  
isok as  
Jow.

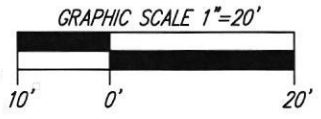
*(Handwritten signature)*

Approved  
6/21/22 *(initials)*

LOT 8  
JACK'S LANDING  
PHASE II

**NOTES:**

1. THE LEVEL OF ACCURACY SETBACK DISTANCES IS ONE TENTH OF A FOOT, MORE OR LESS.
2. THIS PLAT WAS PREPARED WITHOUT BENEFIT OF A TITLE REPORT



I HEREBY CERTIFY THAT IMPROVEMENTS ARE LOCATED AS SHOWN HEREON.



*(Signature)*  
M.N. ROSHAN, L.S. DATE  
APRIL 6, 2022  
MD REG. No. 11049

**WALL CHECK**  
JACK'S LANDING SUBDIVISION  
**LOT 6**  
PLAT No. 23953

LIBER 18731, FOLIO 458  
TAX MAP 34, GRID 3, PARCEL 414  
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND  
SCALE: 1" = 50' DATE: JANUARY 21, 2020



**NJR & ASSOCIATES, LLC.**  
**LAND SURVEYING AND PLANNING**

2770 TERRAPIN RUN  
WEST FRIENDSHIP, MARYLAND 21794  
TEL: (240) 508-3200 FAX: (410) 799-9093

FILE No.  
3438



# Transmittal

DATE: Friday, September 23, 2022

TO:

Gregory Phillips  
Maryland Real Estate Development LLC  
7846 River Rock Way  
Columbia, MD 21044

[gphillips@mred.us](mailto:gphillips@mred.us)

Direct 410-977-0864

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](http://www.hchealth.org)  
[kwolf@howardcountymd.gov](mailto:kwolf@howardcountymd.gov)

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Regarding:

R/O Discharge

Lot 6 Jacks Landing

Regards,

Greg P.

## Wolf, Kevin

---

**From:** Wolf, Kevin  
**Sent:** Thursday, September 22, 2022 4:09 PM  
**To:** Gregory Phillips  
**Cc:** Najib Roshan  
**Subject:** 5517 Jacks Landing | RO trench

Greg,

Jeff and I reviewed the file and we have an option that should be suitable for the location of the ro trench. Looking at the osds plan, our option is to relocate the trench above the existing trenches just installed for the house main septic. We know it will be out of the sda but with the limited area available due to the fill, we really do not have many other options. This location will also be within the well box setback for lot 5 and this ok and we will be adding a memo in with this lot file to reflect this (Lot 5 has other area for future well replacement). The only thing with this location is the loading rates are slightly slower in this area and will make the RO trench design a lot larger, @ a 1.07gpd/sq ft instead of the 1.6gpd/sq ft. For this, instead of a 3ft wide trench, MDE has allowed the RO discharge trench to be 4ft with exceptions. Let's design it as 4ft wide which should ultimately keep it the same length as initially proposed (100ft). Try to place the trench as best on contour as possible while maintaining 10ft min off the trenches. I think we are assuming that the RO system proposed in the house will stretch its limit's to 1:1 or better, at least that's what has been said. Let me know if you have any questions on this. I'd be happy to discuss in person if there are any questions or concerns. Please show this design on the revised osds plan. Note that unless we re-route the RO discharge line out of the house, there will be a crossing at the main 4' sewer house connection.

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](http://www.hchealth.org)  
[kwolf@howardcountymd.gov](mailto:kwolf@howardcountymd.gov)



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[instagram.com/hocohealth](https://instagram.com/hocohealth)

CONFIDENTIALITY NOTICE

**Oswald, Hank**

---

**From:** Oswald, Hank  
**Sent:** Wednesday, June 9, 2021 2:40 PM  
**To:** roshannj@aol.com  
**Subject:** Re: OSDS Plan\_5517 Jacks Landing Way\_Lot 6

Do you happen to have the water treatment specs required for Iron?

Thank you for making the change. Thats all I see.

Hank

---

**From:** roshannj@aol.com <roshannj@aol.com>  
**Sent:** Wednesday, June 9, 2021 2:23 PM  
**To:** Oswald, Hank <hoswald@howardcountymd.gov>  
**Subject:** Re: OSDS Plan\_5517 Jacks Landing Way\_Lot 6

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

Good afternoon,

As per the attached revised plan, four 49' trenches can fit with a slope of over 1.5% from the box to trench 1 and 2 and 2.5' space from end to end. Please let me know if this is the only comment and it's addressed, I will drop off prints of the attached tomorrow.

Thank you  
Najib Roshan, LS  
NJR & Associates, LLC  
2770 Terrapin Run  
West Friendship, MD 21794  
PH (240) 508-3200  
[roshannj@aol.com](mailto:roshannj@aol.com)

-----Original Message-----

From: Oswald, Hank <hoswald@howardcountymd.gov>  
To: roshannj@aol.com <roshannj@aol.com>  
Sent: Wed, Jun 9, 2021 10:44 am  
Subject: OSDS Plan\_5517 Jacks Landing Way\_Lot 6

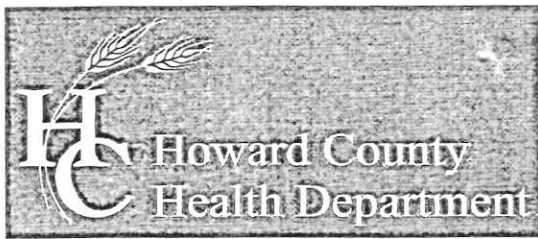
Hi Mr. Roshan:

I am little concern about the lack of fall from the d-box to the ends of the trenches (0.65%). I recommend keeping the d-box where it is and splitting each trench in the middle and center feeding them. Is there enough room?

D.B.-----  
\_\_\_\_\_ | || | \_\_\_\_\_

Hank

Hank Oswald, L.E.H.S.  
Howard County Health Department  
Well & Septic Program  
410.313.1786



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

October 13, 2013

Marty A Howard  
PO Box 740  
Clarksville, MD 21029

Land Design and Development, Inc  
5300 Dorsey Hall Dr, Ste 102  
Ellicott City, MD 21042


**RE: Variance Request  
Dunfarmin Estates**

Dear Mr. Howard:

Maryland Department of the Environment has accepted our recommendation to approve the following variance request under the *Code of Maryland Regulations 26.04.02.05 (C)* to allow: the proposed sewage disposal system serving lots 6 and 7 on Dunfarmin Estates (13938 Highland Road) to be located at least 200' upgradient from the existing private water wells located at 13295, 13331, and 13341 Triadelphia Mill Road. Due to the landscape position of the sewage areas and wells, the request was approved subject to the following conditions:

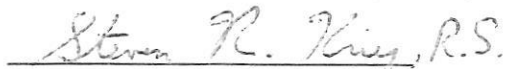
1. An advanced pretreatment system which utilizes best available technology to perform nitrogen reduction must be installed on the sewage disposal systems on Lots #6 and #7. In addition, ongoing maintenance is required. An agreement acknowledging the need for maintaining a service contract with an authorized service provider must be recorded in the Howard County Land Records for each of these lots within 30 days after plat recordation. Building permit applications for the respective lots will not be approved until such an agreement is recorded. Before a septic system installation permit is released for the advanced pre-treatment system, a site plan must be submitted with all necessary details for installation of the system.
2. A low pressure dosing system will be required for the sewage disposal systems on Lots #6 and #7.

If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-1771.



Jeff Williams

Program Supervisor, Well & Septic Program



Steven Krieg, R.S.

Maryland Department of the Environment

Cc: File

JACKS LANDING W.  
S 73°58'27" E

468.56'

579.5

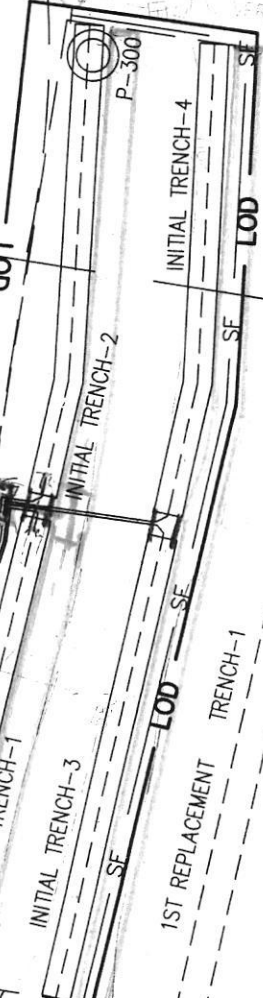
100.0'

152.4'

50' B.R.L.

PROP. 1,500 GAL. SEPTIC TANK  
INV.IN=577.7  
INV.OUT=577.4

PROP. DIST. BOX  
INV.IN=577.3  
INV.OUT=577.2



**LOT 6**  
JACK'S LANDING  
PHASE II  
54,201 SQ. FT.

WATER TREATMENT TRENCH, 100'X3'  
PROP. 6" PVC @ 1.26%

S 16°01'33" W

NON-ROOFTOP DISCONNECT-2  
MAX. SLOPE=5%  
AREA=4,013 SF.±  
DA=4,005 SF.±

PROP. 4" SAN @ 2%

PROP. 4" BACKWASH

PROP. 4" BACKWASH

OVERDRAIN OPENING  
EL. = 556.25

PROPOSED TWO STORY FRAME WITH BASEMENT  
F.F.=584.3  
B.F.=574.3  
(MONARCH)

PROPOSED MICRO-BIORETENTION (M-6) WITH IMPERMEABLE LINER 12" PONDING

EX. WELL 17-0238

PROP. 4" PVC

PROP. 6" PVC

66.8'

PROP. WATER TAP

10.50'

20.00'

12.50'

26.00'

21.00'

12.00'

6.00'

25.17'

13.33'

3.00'

17.67'

3.00'

14.50'

3.00'

11.67'

20.33'

12.00'

25.0' (MIN.)

25.0' (MIN.)

139.66'

100.0'

99.19'

82.4

582.5

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← Jess:

1.) Response to my comment #4 re:  
SWM

2.) pipe length between d-box

to trench (0.65%) OK?

- I don't love the layout - they can lower the trench a bit to get better fall

OK to ~~that~~ 7

TX, Hank

---

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

**MEMORANDUM**

**TO: NJR & Associates**  
**2770 Route 32**  
**West Friendship, MD 21794**

**FROM: Hank Oswald, L.E.H.S.**  
**Well & Septic Program**

**RE: OSDS Plan**  
**Jacks Landing Phase II, Lot 6**  
**5517 Jacks Landing Way**

**Date: February 25, 2021**

---

The OSDS Plan has been reviewed with the following comments:

- 1.) Move tank out of SDA
- 2.) Place initial system at top of SDA and move water treatment to bottom of SDA and use 1- 100 ft. trench.
- 3.) Maintain 25 feet from bio retention pond to SDA.
- 4.) Maintain 25 feet from pond discharge pipe to SDA.

Attached hereto, please find the revised copies of the new OSD plans for this project. The followings are point by point responses to the comments above:

- 1- The tank is moved outside the SDA and placed in the gap between the SDA and the Well Box 100' radius.
- 2- The initial system and the Water Treatment trenches are moved as directed.
- 3- The SWM pond is placed at a minimum distance of 25' distance from SDA and noted as such on the plan.
- 4- The location of the outfall of the SWM facility that is shown for this project is the only feasible spot on this lot due to height restriction. This location is within an existing Storm Water Management device (Swale with Check Dams) and it is already in violation of the 25' setback to the SDA. Further, we directed the flow of the pipe away from the SDA and we are proposing to protect the area with outfall protection Riprap. An approval of this location is essential for a building on this lot.

Sincerely  
M.Najib Roshan, NJR & Assoc., LLC.



Bureau of Environmental Health  
8930 Stanford Blvd | Columbia, MD 21045  
410.313.2640 - Voice/Relay  
410.313.2648 - Fax  
1.866.313.6300 - Toll Free

---

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

**MEMORANDUM**

**TO:** NJR & Associates  
2770 Route 32  
West Friendship, MD 21794

**FROM:** Hank Oswald, L.E.H.S.  
Well & Septic Program

**RE:** OSDS Plan  
Jacks Landing Phase II, Lot 6  
5517 Jacks Landing Way

**Date:** February 25, 2021

---

The OSDS Plan has been reviewed with the following comments:

- 1.) Move tank out of SDA
- 2.) Place initial system at top of SDA and move water treatment to bottom of SDA and use 1- 100 ft. trench.
- 3.) Maintain 25 feet from bio retention pond to SDA.
- 4.) Maintain 25 feet from pond discharge pipe to SDA.

## Oswald, Hank

---

**From:** Oswald, Hank  
**Sent:** Thursday, February 25, 2021 11:56 AM  
**To:** 'roshannj@aol.com'  
**Subject:** OSDS Plan\_5517 Jacks Landing Way  
**Attachments:** OSDS Memo\_NJR\_5517 Jacks Landing Way.pdf

Hi Mr. Roshan:

Attached, please find comments to the OSDS Plan for 5517 Jacks Landing Way (Lot 6).

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

Thanks,

Hank

Hank Oswald, L.E.H.S.  
Howard County Health Department  
Bureau of Environmental Health  
Well & Septic Program  
8930 Stanford Boulevard  
Columbia, MD 21045  
(410) 313 - 1786  
hoswald@howardcountymd.gov

T/6/22

D-box is backwards

lot 6 Iron - 4.3

Na - 16.3/34.6

Cl - 202/133

TDS - 548/591

MBE - 5.15/5.23

TAME - 0.65

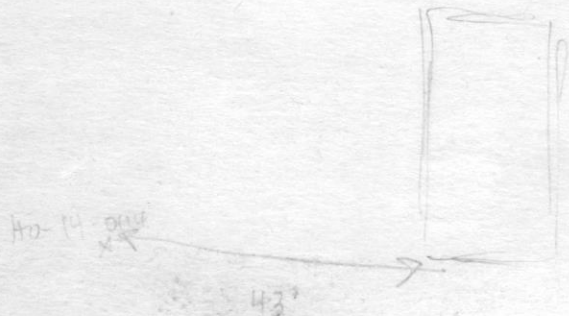
# MDE Variance

1/15/19 Notes

6/10  
drilling alt well farther from road  
hitting some water

lot 6 → well Abandoned  
Reports for 2 wells  
only very 1 of 3

~~SAT~~  
~~LPD~~ road



5/8

- 48' static lot 7
- new G: 45' static
- old GA: 42' static farther from rd
- GB: 45' static
- lot 8: both 42' static
- started pumping lot 6 10:45 am
- no change in static levels @ 11:25 am
- lot 6: water foamy

3/1

780'  
55' casing  
1 1/2 water

hole #1  
4 gpm  
85'

3/5

drilling hole #2  
55' casing  
1 1/2 water ~150'  
@ 300'

3/8

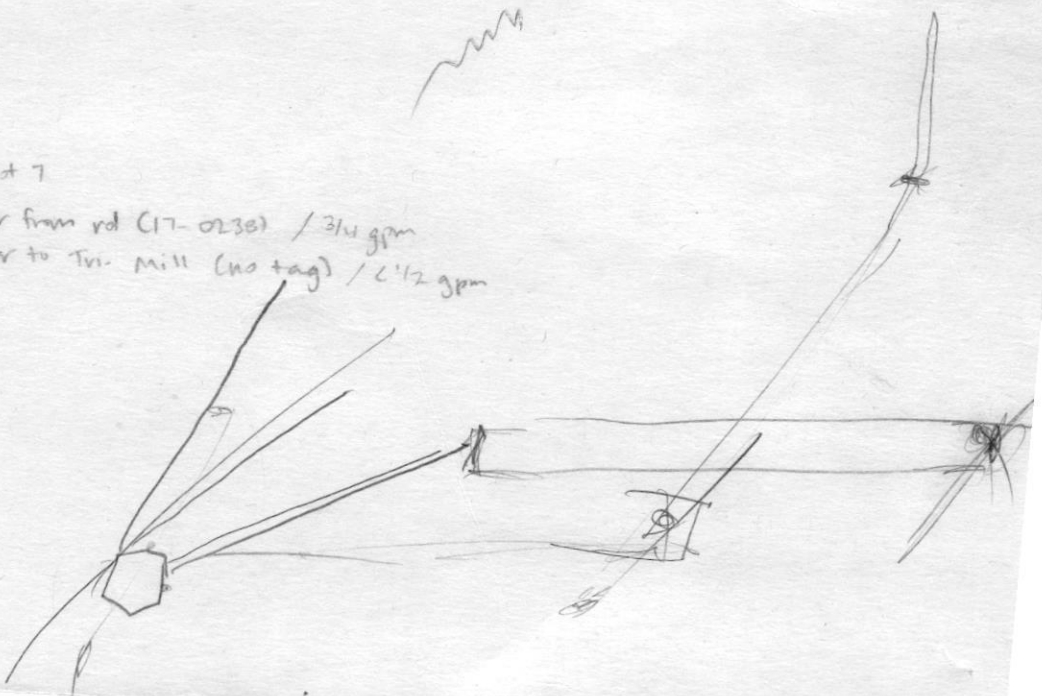
800'

3/26

simultaneous yield w/ lot 7  
well A = north, farther from rd (17-0236) / 3 1/4 gpm  
well B = south, closer to Tri. Mill (no tag) / 2 1/2 gpm  
all 5 wells' static 445'

5/7

@ 315' water → @ 340'  
50' bedrock  
63' steel casing





# HOWARD COUNTY HEALTH DEPARTMENT

70982

DATE 3/1/22

P5

Received From

Valley Road Ent.

PHONE #

410-3927-6003

For

Septic Permit, 5517 Jack  
Lander

CASH

CHECK

NO. CC

Three hundred ninety five

Dollars

\$

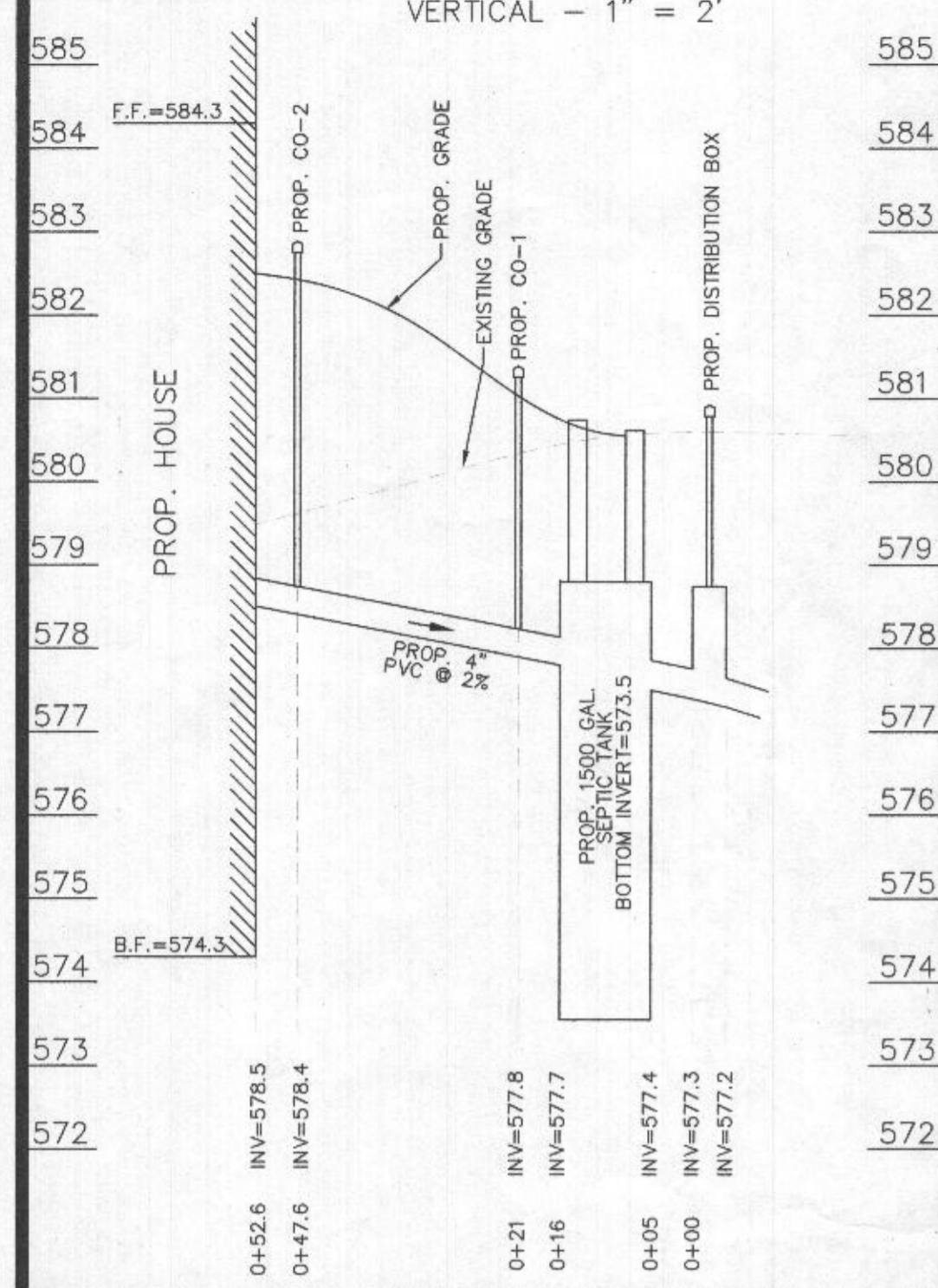
395.00

Received By

King

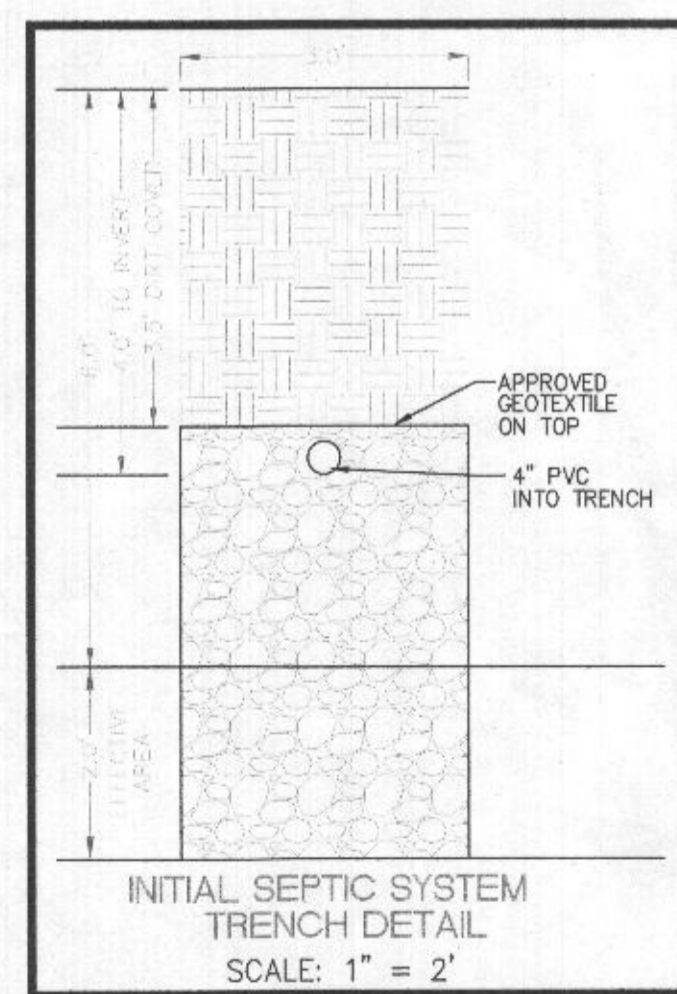
**SEPTIC SYSTEM PROFILE**

SCALE: HORIZONTAL - 1" = 20'  
VERTICAL - 1" = 2'



TRENCH	TRENCH LENGTH	EX. TOP OF GROUND	TOP OF GRAVEL	INV. INTO TRENCH	BOTTOM OF TRENCH
1 & 2	49'	580.7±	577.2	576.7	572.7
3 & 4	49'	580.0±	576.5	576.0	572.0

**SEPTIC SYSTEM CALCULATIONS**  
ABS. RATE= 0.8, EFFECTIVE DEPTH= 6'-8" (2')  
DRAINFIELD AREA: 5 BEDROOMS AT 750 gpd / 0.8 ABSORPTION RATE=938 SQ. FT.  
SIDEWALL REDUCTION CREDIT:  $\frac{WIDTH+2}{3+1+2(2)} = \frac{5}{8} = 0.625$   
LENGTH OF TRENCHES:  $938 \text{ SQ. FT.} \times 0.625 = 195 \text{ LINEAR FEET}$   
ALL SYSTEMS: FOUR TRENCHES OF 49 FEET IN LENGTH, 3 FEET WIDE, 10 FEET MINIMUM SPACED ARE PROVIDED.



**MISS UTILITY**  
CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF FREDERICK COUNTY REGULATIONS.

REVISIONS	
No.	DATE

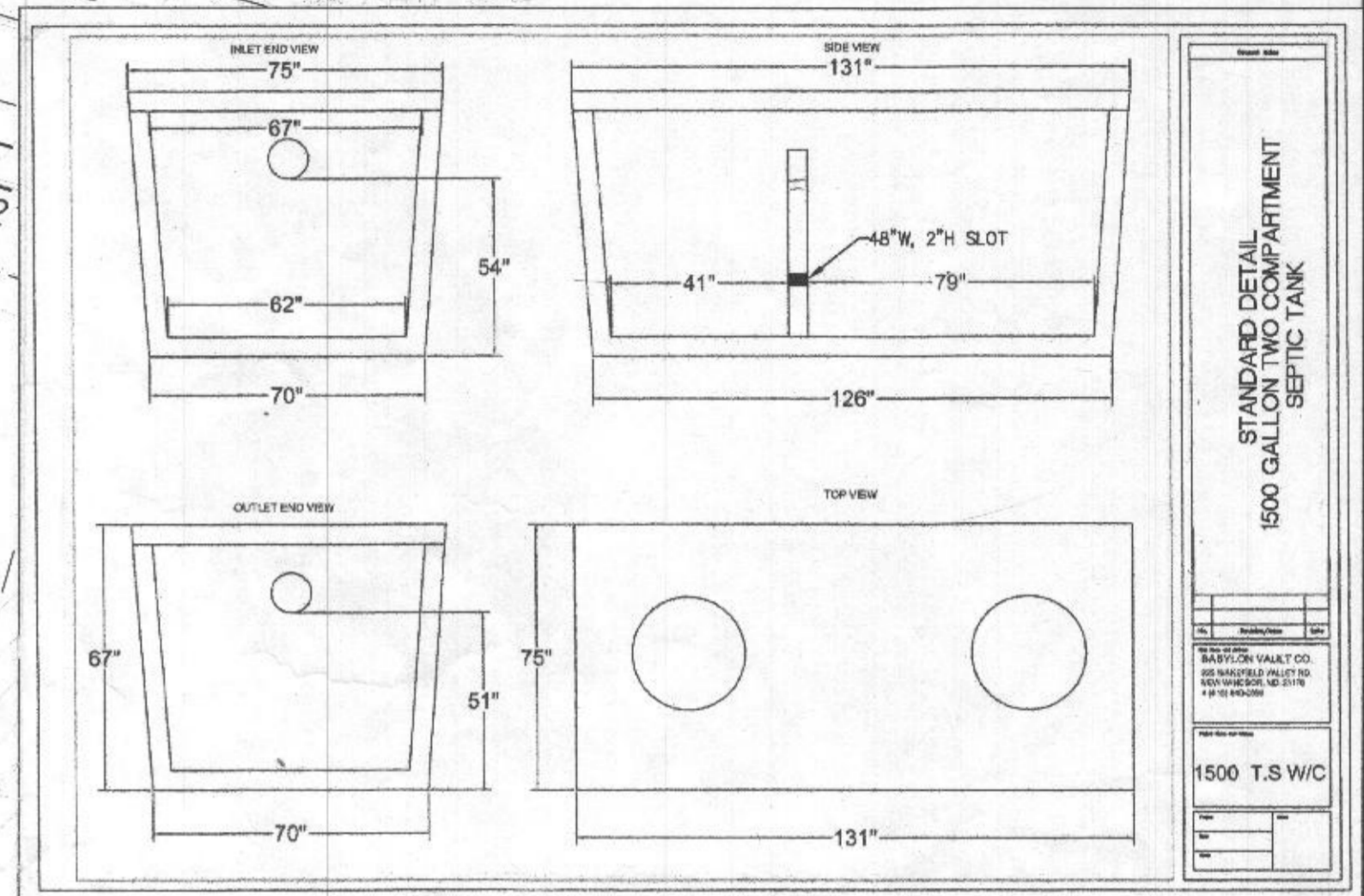
SOL TABLE			
SYMBOL	NAME/DESCRIPTION	TYPE	HYDRIC
GgB	Glennel Locn, 3% to 8% Slopes		No



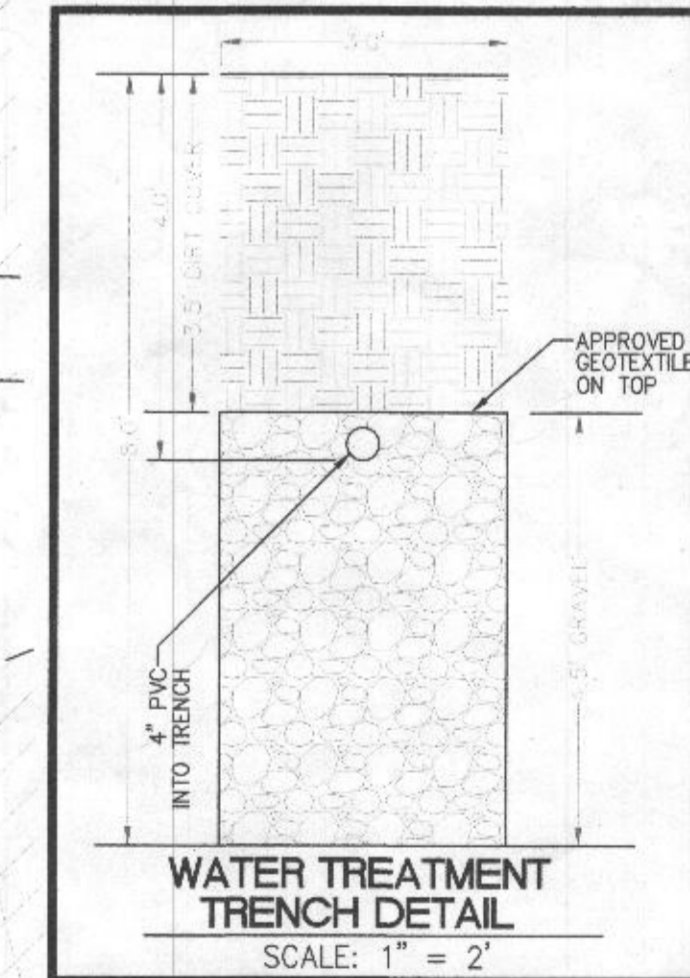
**GENERAL NOTES**

- ZONING: RR-BED.
- PROPOSED SEWER - PRIVATE; PROPOSED WATER - PRIVATE.
- THE PLAN IS BASED ON A FIELD RUN BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY NJR & ASSOCIATES IN SEPTEMBER OF 2020.
- THERE IS NO 100 YEAR FLOODPLAIN ON SITE.
- THERE ARE NO WETLANDS AND STREAMS ON SITE.
- THERE ARE NO CRITICAL HABITATS OF RARE, THREATENED OR ENDANGERED SPECIES ON SITE.
- TOTAL AREA WITHIN LOD = 29,914 SQ.FT.
- WATERSHED = PATUXENT RIVER
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- CONTRACTOR TO MAINTAIN POSITIVE SLOPE AWAY FROM THE FOUNDATION OF THE HOUSE.

**BUILDABLE PRESERVATION PARCEL A JACK'S LANDING PHASE I**



TRENCH	TRENCH LENGTH	EX. TOP OF GROUND	TOP OF GRAVEL	INV. INTO TRENCH	BOTTOM OF TRENCH
1	100'	575.4±	571.9	571.4	567.4



**LEGEND**

- EX. WATER WELL
- EX. STREET SIGN
- EX. WOOD POST
- EX. TELEPHONE PEDESTAL
- EX. SANITARY CLEAN OUT
- EX. UTILITY POLE
- EX. GUY WIRE ANCHOR
- EX. STORM DRAIN MANHOLE
- EX. STUMP
- EX. EVERGREEN TREE
- EX. DECIDUOUS TREE
- PROP. SPOT ELEVATION
- EX. CONTOUR
- PROP. CONTOUR
- PROP. SUPER SILT FENCE
- PROP. SILT FENCE
- PROP. LIMIT OF DISTURBANCE
- B.R.L. DENOTES (BUILDING RESTRICTION LINE)
- PROP. STABILIZED CONSTRUCTION ENTRANCE
- EX. SEPTIC RESERVE AREA
- EX. WELL RESERVE BOX
- PROP. NON-ROOFTOP DISCONNECT
- EX. PASSING PERCOLATION TEST
- PROP. SURFACE FLOW DIRECTION

**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 WELL (TAG # HO-17-1238) HAS 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- THE TOPOGRAPHY SHOWN ON THIS PLAN IS BASED ON AN ACTUAL FIELD RUN SURVEY BY NJR & ASSOCIATES PERFORMED ON SEPTEMBER OF 2020.  
6- THIS SURVEY IS TIED TO MARYLAND STATE PLANE NAD 83/91 COORDINATE SYSTEM.  
7- THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT ARE AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.

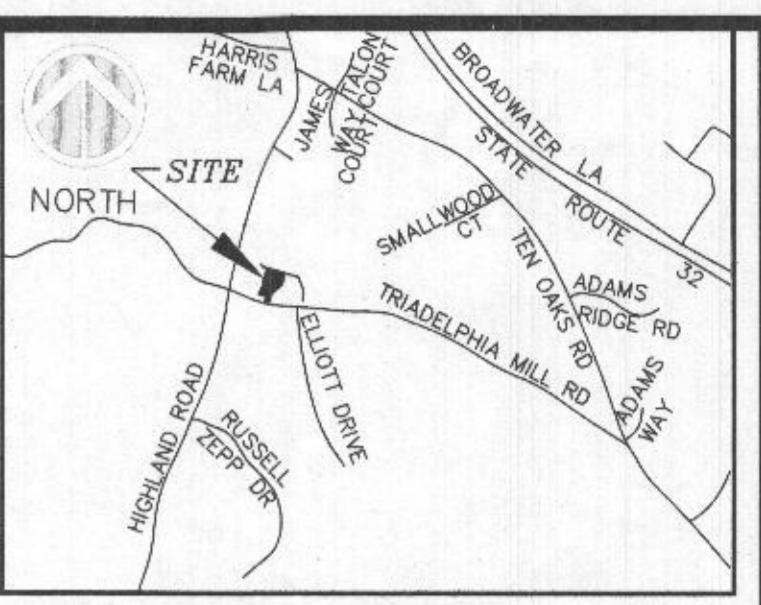
Approved Septic System Plan  
Howard County Health Department  
Hank O'Connell 7/2/21  
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.  
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPARTMENT. DATE

**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, 2023.  
SIGNATURE: [Signature] DATE: JUNE 12, 2021

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

DEVELOPER  
CARUSO HOMES  
1120 BALDWIN AVENUE, Ste 200  
CROFTON, MD 21144  
(301) 281-0277  
OWNER  
JAY & KIRANMAYI ADIMOOLAM  
7021 GARDEN WALK  
COLUMBIA, MD 21044  
(301) 261-0277

**ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN**  
JACK'S LANDING, PHASE II  
**LOT 6**  
PLAT No. 25063  
5517 JACKS LANDING WAY, CLARKSVILLE  
TAX MAP 34, GRID 3, PARCEL 414  
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 20' JOB NO.: 3438 DATE: DEC. 5, 2020 SHEET: 1 OF 1



VICINITY MAP  
SCALE: 1" = 2000'  
ADC MAP - 24  
GRID - E8