

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: 8-13-24 **ONSITE SEWAGE DISPOSAL SYSTEM** P 586782

APPROVAL DATE: 12/5/2024 **PERMIT: NEW CONSTRUCTION** A _____

PROPERTY ADDRESS: 1734 Willow Springs Drive

SUBDIVISION: Willow Highlands at w5gc LOT: 13 TAX ID: _____

CONTRACTOR: Earl Preston, Jr. Inc EMAIL: _____

CONTRACTOR ADDRESS: HOSC Federal Hill Road, Terrettsville, MD 21084 PHONE: 410-557-8100

PROPERTY OWNER: Bhrugesh & Utpala Vyas EMAIL: _____

OWNER ADDRESS: 7394 Hopkins Way, Clarksville, MD 21029 PHONE: _____

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

PUMP MODEL: Gould PUMP SIZE: WE03 PUMP TANK CAPACITY: 1500

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

TRENCHES:	LINEAR FEET REQUIRED: <u>132</u>	INLET DEPTH: <u>2</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Install 2 trenches at 66'	

ISSUED BY: H. Arnold ISSUE DATE: 8-13-24 EXPIRATION DATE: 8-13-24

- 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 2400-311
- 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

see separate sheet for As-Built

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3	2	8
NUMBER OF TRENCHES		2
TOTAL LENGTH		134
ABSORPTION AREA		
DISTRIBUTION BOX LEVEL		
DISTRIBUTION BOX BAFFLE		
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL yes
 MANUFACTURER Baldriver
 CAPACITY 1500 GAL
 SEAM LOC Top
 TANK LID DEPTH 1.5'-1
 BAFFLES 6" front
 BAFFLE FILTER ---
 MANHOLE LOC Front & Back
 6" PORT LOC ---
 WATERTIGHT TEST ---
 SLOTTED yes
 DATE ON LID 9/4/2024

PUMP/SEPTIC TANK LEVEL yes

MANUFACTURER Baldriver
 CAPACITY 1500 GAL
 SEAM LOC Top
 TANK LID DEPTH 1.5'-2
 BAFFLES ---
 BAFFLE FILTER ---
 MANHOLE LOC Front & back
 6" PORT LOC ---
 WATERTIGHT TEST ---
 SLOTTED ---
 DATE ON LID ---

10/4/2024 Contractor on site. Sewer outlet line to D-box installed. One trench has been installed. One area of Stone and a lot of Pines. Stone mostly OK. Trench dimensions are per plan. 10% rock at end of first trench. Contractor will send pit of Stone with Gesteonite Fabric. OK to backfill (MB/RL)

10/7/2024 Contractor on site. Inlet of end trench meets spec; 2' inlet and 8' bottom. D-box is too small. Stone with KW and said they will need to replace with a larger unit. Pipe being used, 3000 Triple Wall HDPE ASTM F110, not schedule 40 equivalent. Pipe integrity seems very good, however, per KW the pipe is OK to use, Contractor will send pit of stone over the pipe and Gesteonite Fabric placed on top. OK to backfill trench. (MB)

10/17/24 Installer replaced D-box and is acceptable. Tank lid is not acceptable, however the lid is in the place. As per plan to seal the tank pieces into one using hydraulic cement.

ROAD NAME

10/17/24 Contractor used D-box lid. The lid is not acceptable, however the lid is in the place. As per plan to seal the tank pieces into one using hydraulic cement. This lid did not budge when F stood on it. Will be covered with 1' of soil OK to backfill (MB)

SEPTIC CONTRACTOR ONSITE INSTALLING SYSTEM: Jason Barrett
SEPTIC CONTRACTOR ONSITE LICENSED WITH THE STATE OF MD: YES/NO

PRE-CONSTRUCTION NOTES:

9/13/2024 - Installer Jason onsite for inspection. Sewer out of house higher than plan. Tank structural per plan. OK to install tank. SPA not started, 1st trench started, 2nd trench not started. Part of SPA not cleared off. Installer clearing lot. Per inspect for SPA & trenchal. (SP/MB)

9/20/2024 - Installer onsite. SPA started. Trenches @ 66', no less than 2" diff & 15' between trenches. (SP/MB)

INSTALLATION NOTES:

9/16/2024 - per documentation stating Tanks are less than 28 days old but max than 9,000 PSI. (SP/MB)

9/17/2024 - Installer onsite for inspection. Stone from Barrack onsite, some slightly dirty. Sewer installed w/ 1.5'-2' of cover. Respect for inlet & outlet lines. (SP/MB) Come back water later in dig. Installer onsite. Inlet has 3' of not 2' filled. 2' deep. Inlet has 4' of 2" sloped out of tank. EM pressure line is sleeved under stream. 9" depth per plan. OK to backfill. (SP/MB)

9/23/2024 Contractor installed 2" 28075 pressure-rated pipe up to D-box. OK to backfill. Contractor will call in when they dig the 2nd trench. (SP/MB)

FINAL INSPECTOR Matthew Burr F.S. Pge DATE OF APPROVAL 12/5/2024

12/5/2024 - Could's Pump installed outside of house. Alarm successful + pump successfully sends water to d-box. (SP)

CONTROL PANEL DATA

CONTROL PANEL HEIGHT 20"
 (MIN 30")
 INSPECTION DATE 12/5/24
 INSPECTION: PASS FAIL (CIRCLE ONE)

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

AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN ON-SITE TREATMENT SYSTEM

This agreement is entered into by and between the Howard County Health Department (“the Health Department”) and Bhrugesh and Utpala Vyas (“the Owner”).

WHEREAS, the Owner owns a tract of land at street address 1734 Willow springs drive, Sykesville, Maryland 21784 and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 15, Block # 4, Parcel # 03313360, Deed Reference # 04905-00178 and Tax Account # 03-313360 (“the Property”).

WHEREAS, the Property lacks an available public drinking water source and is required to have an individual well as the source of drinking water for the residence of the property.

WHEREAS, the Owner has installed a residential drinking well under well permit H0-880091 that has been tested by the Health Department (or a private laboratory certified to perform testing) for Nitrate-nitrogen. The results of the tests have shown that the Nitrate level meets or exceeds the Maximum Contaminant Level (MCL) of 10 milligrams per liter.

WHEREAS, The Maryland Department of the Environment (MDE) has promulgated rules and regulations under which a Certificate of Potability may be issued and has delegated the authority to issue such Certificate to the Health Department.

WHEREAS, MDE regulations permit the Health Department to issue as a special condition, a permanent deviation to the Certificate of Potability for individual wells where treatment has been installed to meet the MCL for Nitrate.

WHEREAS, MDE has determined that Nitrate can be effectively removed from the drinking water by the use of treatment devices (e.g. reverse osmosis).

WHEREAS, the Owner is requesting that the Health Department issue a Certificate of Potability contingent upon installation and maintenance of a water treatment device to reduce Nitrate.

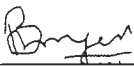
WHEREAS, neither the Owner nor the Health Department has knowledge of an alternative safe source of water for the Property.

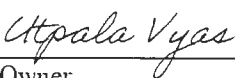
NOW THEREFORE, the parties have agreed to the following terms and conditions:

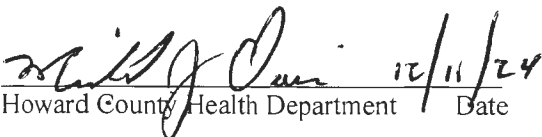
1. The Owner will record this Agreement among the Land Records of Howard County, Maryland and provide confirmation to the Health Dept.
2. The Owner agrees to install and maintain a water treatment device, which effectively reduces the Nitrate below the MCL. The Health Department shall verify that the treatment device is operating effectively and the Owner agrees to allow access to the Health Department to collect a follow-up sample(s).

3. The Health Department shall issue a Certificate of Potability for the well once follow-up sampling shows acceptable Nitrate levels.
4. The Owner agrees that there shall be no liability on part of the Health Department for any immediate or long term impacts to health or property, under any circumstance or including, but not limited to, treatment device failure, improper maintenance or installation, or defect. The Health Department does not warranty or guarantee that the device will adequately or properly function and the Owner agrees to implement and pay for any necessary changes or corrections.
5. The Owner acknowledges and agrees that neither the Health Department nor any of its agents or employees, either officially or individually, underwrites the operation of any system or treatment device.
6. This Agreement shall not be construed to limit any authority of the Health Department to protect the public health, safety or enjoyment of property or to issue any other orders to take any other action, which is now or may hereafter be within its authority.
7. This agreement contains the entire agreement and understanding between the Health Department and the Owner. There are no additional terms other than as contained in this Agreement. This Agreement may not be modified except in writing signed by each of the parties or their authorized representatives.
8. The Agreement shall run with the land and binds the Owner, his heirs, successors, and assigns. The owner agrees to provide a copy of this agreement to any purchaser or lessee of the property.
9. The laws of the State of Maryland govern the provisions of all transactions.

The parties have signed this Agreement on the dates set forth below.

	Dec. 10, 2024		
Owner	Date	Buyer	Date

	Dec. 10, 2024		
Owner	Date	Buyer	Date

	12/11/24
Howard County Health Department	Date

CIRCUIT COURT FOR HOWARD
9250 JUDICIAL WAY
ELLCOTT CITY, MD 21043

SALE

Store: 4153
REF#: 00000002
Batch #: 009 RRN: 434618500983
12/11/24 13:58:01
Trans ID: 464346683413245
APPR CODE: 211195
VISA Chip
*****3716 **/**

AMOUNT \$60.00

APPROVED

VISA CREDIT
AID: A0000000031010
TVR: 80 80 00 80 00
TST: 68 00

CUSTOMER COPY

Clerk of the Circuit Court for
Howard County

9250 Judicial Way
Ellicott City, MD 21043
410-313-2111

=====
LR - Agreement Recording Fee
1x 20.00 20.00

Name: Vyas
Ref: 5

=====
LR - Agreement Surcharge
1x 40.00 40.00

=====
SubTotal: 60.00
Total: 60.00

=====
CRD-Credit 60.00
Credit Card Confirmation : 211195

12/11/2024 13:58 CC13-CH

#18586869/498/4

Thank you for visiting us today~

CIRCUIT COURT FOR HOWARD
9250 JUDICIAL WAY
ELLCOTT CITY, MD 21043

SALE

Store: 4153

Batch #: 009 REF#: 00000002
12/11/24 RRN: 434618500983
13:59:01

Trans ID: 464346683413245

APPR CODE: 211195

VISA

*****3716

Chip
/

AMOUNT \$60.00

APPROVED

VISA CREDIT

AID: A0000000031010

TVR: 80 80 00 80 00

TSt 68 00

CUSTOMER COPY

Clerk of the Circuit Court for
Howard County

9250 Judicial Way
Ellicott City, MD 21043
410-313-2111

LR - Agreement Recording Fee
1x 20.00 20.00

Name: Vyas
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LR - Agreement Surcharge
1x 40.00 40.00

SubTotal: 60.00
Total: 60.00

CRD-Credit 60.00
Credit Card Confirmation: 211195

12/11/2024 13:58
#18586869/498/4

CC13-CH

Thank you for visiting us today

BACK RIVER PRE-CAST, LLC.

MANUFACTURERS OF PRECAST CONCRETE PRODUCTS

P.O. BOX 329 GLYNDON, MD 21071

PHONE (410) 833-3394 FAX (410) 833-4116

QUALITY CONTROL DEPARTMENT

CONCRETE TESTING REPORT

September 4, 2024

DATE: _____

MON. TUES. WED. THURS. FRI. SAT.

JOB NO. _____

JOB NAME _____

SLUMP <u>5"</u>	CYLINDER NO.	585	587	589	591
		586	588	590	592

AIR ENTRAINMENT (%) <u>7%</u>	BREAK DATE	<u>5-Sep</u>	<u>11-Sep</u>	<u>2-Oct</u>	_____
-------------------------------	------------	--------------	---------------	--------------	-------

UNIT WEIGHT <u>1485 LB</u>	BREAK DATE	<u>1-DAY</u>	<u>7-DAY</u>	<u>28-DAY</u>	_____
----------------------------	------------	--------------	--------------	---------------	-------

CONCRETE TEMP. <u>76°F</u>	CURING AGE	_____	_____	_____	_____
----------------------------	------------	-------	-------	-------	-------

AMBIENT TEMP. <u>70°F</u>	LOAD IN LBS.	<u>56</u>	<u>64⁵⁰⁰</u>	_____	_____
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TIME MADE <u>13:29</u>	_____	<u>63"</u>	_____	_____	_____
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REQ. PSI @ 28 DAYS _____	PSI STRENGTH	<u>4455</u>	<u>5131</u>	_____	_____
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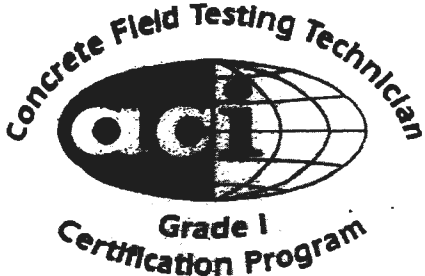
ITEMS CAST TODAY :SEE PRODUCTION REPORT	_____	<u>4415</u>	<u>5012</u>	_____	_____
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REMARKS _____

AC CONCRETE FIELD TESTING

TECHNICIAN - GRADE 1

David Lysse



BACK RIVER PRE-CAST, LLC.

MANUFACTURERS OF PRECAST CONCRETE PRODUCTS

P.O. BOX 329 GLYNDON, MD 21071

PHONE (410) 833-3394 FAX (410) 833-4116

QUALITY CONTROL DEPARTMENT

CONCRETE TESTING REPORT

September 14, 2024

DATE: _____

MON. TUES. WED. THURS. FRI. ~~SAT.~~

JOB NO. _____

JOB NAME _____

SLUMP 5"

CYLINDER NO.

657 659 661 663

AIR ENTRAINMENT (%) 5.3

658 660 662 664

UNIT WEIGHT 145-16

BREAK DATE

~~16-Sep~~ ~~21-Sep~~ ~~12-Oct~~ _____

CONCRETE TEMP. 76°

CURING AGE

~~1-DAY~~ ~~7-DAY~~ ~~28-DAY~~ _____

AMBIENT TEMP. 70°

LOAD IN LBS.

60" _____

TIME MADE 12:31

61" _____

REQ. PSI @ 28 DAYS _____

PSI STRENGTH

4773 _____

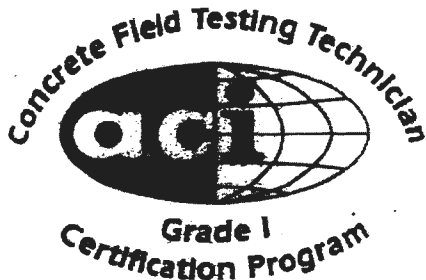
ITEMS CAST TODAY : SEE PRODUCTION REPORT

4853 _____

REMARKS _____

AC CONCRETE FIELD TESTING

TECHNICIAN - GRADE 1



David Lysowski



3000 TRIPLE WALL HDPE 4" I.D. (100 mm) ASTM F 840







Oswald Jr, Woodin

From: Zach Sill <zach@sillengineering.com>
Sent: Monday, February 5, 2024 3:59 PM
To: Oswald Jr, Woodin
Subject: Re: OSDS Plan_1734 Willow Springs Drive
Attachments: WillowSprings_Set_22-048.pdf

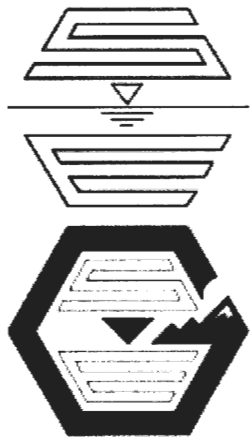
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Hi Hank,

Please see the attached revised plans. I have added the perc hole locations with numbers to correspond with the elevation chart. I have also included the well box in the well radius. I also went ahead and added the roof leader crossing the SHC to profile to show clearance. I will bring by hard copies tomorrow.

Best,

Zachary Sill
Civil Drafter & Designer
Erosion & Sediment Control No. RPC016242



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC

16005 Frederick Road, 2nd Floor
Woodbine, MD 21797

Office: 443-325-5076 ext. 107 | Fax: 410-696-2021
Website: www.sillengineering.com

From: Zach Sill <zach@sillengineering.com>
Sent: Monday, February 5, 2024 1:51 PM
To: Oswald Jr, Woodin <hoswald@howardcountymd.gov>
Subject: Re: OSDS Plan_1734 Willow Springs Drive

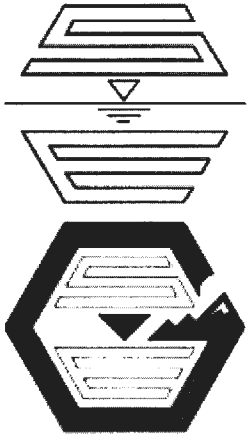
Hank,

Apologies, looks like I have the elevations on there but the layer the perc holes were on was frozen in my plans and I didn't notice. The SHC is shown entering the house on the back left side of the house in plan view. I show the SHC 5' off of that side of the house as we don't usually design exactly where they SHC is coming into the house, we have always have stopped 5' short. The builder said he preferred it in this location because that's where the plumbing will be. The structure you are asking about is a stormwater management drywell.

I will add the perc hole locations & #s to correspond with the elevation chart, and add a well radius on the well box.

Thanks,

Zachary Sill
Civil Drafter & Designer
Erosion & Sediment Control No. RPC016242



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Website: www.sillengineering.com

From: Oswald Jr, Woodin <hoswald@howardcountymd.gov>
Sent: Monday, February 5, 2024 1:38 PM
To: Zach Sill <zach@sillengineering.com>
Subject: RE: OSDS Plan_1734 Willow Springs Drive

Hi Zach,

The perc test holes and associated elevation #s aren't shown on the revised OSDS Plan. Additionally, I can't tell where the SHC is exiting the house now. Also, what is that structure near the corner of the house and SHC? Riprap? Lastly, please show a 100 ft radius around the well box too since we need a revised plan.

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

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From: Zach Sill <zach@sillengineering.com>
Sent: Friday, February 2, 2024 1:08 PM
To: Oswald Jr, Woodin <hoswald@howardcountymd.gov>
Subject: Re: OSDS Plan_1734 Willow Springs Drive

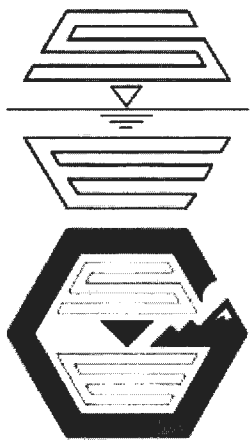
[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hello Hank,

I plan to resubmit the revised plan this afternoon. Please see the attached revised plan, picture of the capped illegal outfall and response to your comments below in Blue. The outfall was capped near the property line. The riprap will be removed at the time of installation of the septic system.

Best,

Zachary Sill
Civil Drafter & Designer
Erosion & Sediment Control No. RPC016242



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Office: 443-325-5076 ext. 107 | Fax: 410-696-2021
Website: www.sillengineering.com

From: Oswald Jr, Woodin <hoswald@howardcountymd.gov>
Sent: Monday, December 4, 2023 11:31 AM
To: Zach Sill <zach@sillengineering.com>
Subject: OSDS Plan_1734 Willow Springs Drive

Hi Zack,

The OSDS Plan for 1734 Willow Springs Drive has been reviewed with the following comments:

1. The last perc cert plan did not include the smaller area shown on Lot 15. If you need to utilize that area for this design, then a revised perc cert plan will be required to include that area. Trench design has been revised to keep all trenches within the SDA for Lot 13. There are no proposed trenches on lot 15 now.
2. The plan shows a 4 inch outfall and rip rap inside the SDA. Does this exist? I ask this question, because the inspector did not make note of it during the 2016 perc. A future site visit will occur to evaluate the area around the outfall/rip rap. Depending on the outcome of that visit, the area around the outfall may not be useable, and the rip rap will need to be abandoned. After extensive discussions with the county, it was determined that this is an illegal private outfall, and it is up to the homeowners to rectify. Currently, the outfall has been capped at our

property line, and the neighbor will handle dealing with relocating the outfall on his property at a later date. The riprap has been labeled as "to be removed at time of installation of septic system". Please see attached photo of the capped pipe.

3. Show perc test holes on plan with elevations. Provided.
4. Show trench spacing calculation (2D+W), and proper spacing between trenches in the layout. Provided
5. Show 45 degree elbow on last turn before the septic tank. Alignment has been adjusted before the septic tank to make a more gradual turn into the septic tank.
6. Label cleanouts on plan. Cleanout labeled with "C/O"
7. You could make the 1st replacement system 2 – 100 ft. trenches to allow enough room to fit the 2nd replacement system in the lower portion of the SDA. Trench design has been revised.
8. How did you arrive at 111.0239 CF or 830.516 excess above the high water alarm? Are you including the space above the pump tank invert? We include the area between the High Water alarm and the Invert in.
9. Eliminate 90 degree angles in FM at stream. Make FM gradually slope down to stream and up to d-box for a smoother transition. Show sleeve on FM at stream with sleeve extending out 10 feet on both sides of stream. These are 1/8 bends at stream. Sleeve has been provided in profile view and called out as "proposed sleeve extending 10' on both sides of the stream centerline and is noted under "OSDS Notes" on sheet #2.

I will get back to you soon about my site visit findings regarding the outfall. 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
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Oswald Jr, Woodin

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Attachments: WillowSprings_Set_22-048.pdf; 20240202_103247.jpg

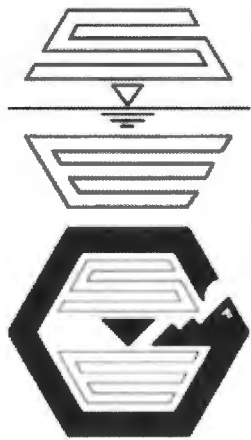
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1. The last perc cert plan did not include the smaller area shown on Lot 15. If you need to utilize that area for this design, then a revised perc cert plan will be required to include that area. Trench design has been revised to keep all trenches within the SDA for Lot 13. There are no proposed trenches on lot 15 now.

2. The plan shows a 4 inch outfall and rip rap inside the SDA. Does this exist? I ask this question, because the inspector did not make note of it during the 2016 perc. A future site visit will occur to evaluate the area around the outfall/rip rap. Depending on the outcome of that visit, the area around the outfall may not be useable, and the rip rap will need to be abandoned. After extensive discussions with the county, it was determined that this is an illegal private outfall, and it is up to the homeowners to rectify. Currently, the outfall has been capped at our property line, and the neighbor will handle dealing with relocating the outfall on his property at a later date. The riprap has been labeled as "to be removed at time of installation of septic system". Please see attached photo of the capped pipe.
3. Show perc test holes on plan with elevations. Provided.
4. Show trench spacing calculation (2D+W), and proper spacing between trenches in the layout. Provided
5. Show 45 degree elbow on last turn before the septic tank. Alignment has been adjusted before the septic tank to make a more gradual turn into the septic tank.
6. Label cleanouts on plan. Cleanout labeled with "C/O"
7. You could make the 1st replacement system 2 – 100 ft. trenches to allow enough room to fit the 2nd replacement system in the lower portion of the SDA. Trench design has been revised.
8. How did you arrive at 111.0239 CF or 830.516 excess above the high water alarm? Are you including the space above the pump tank invert? We include the area between the High Water alarm and the Invert in.
9. Eliminate 90 degree angles in FM at stream. Make FM gradually slope down to stream and up to d-box for a smoother transition. Show sleeve on FM at stream with sleeve extending out 10 feet on both sides of stream. These are 1/8 bends at stream. Sleeve has been provided in profile view and called out as "proposed sleeve extending 10' on both sides of the stream centerline and is noted under "OSDS Notes" on sheet #2.

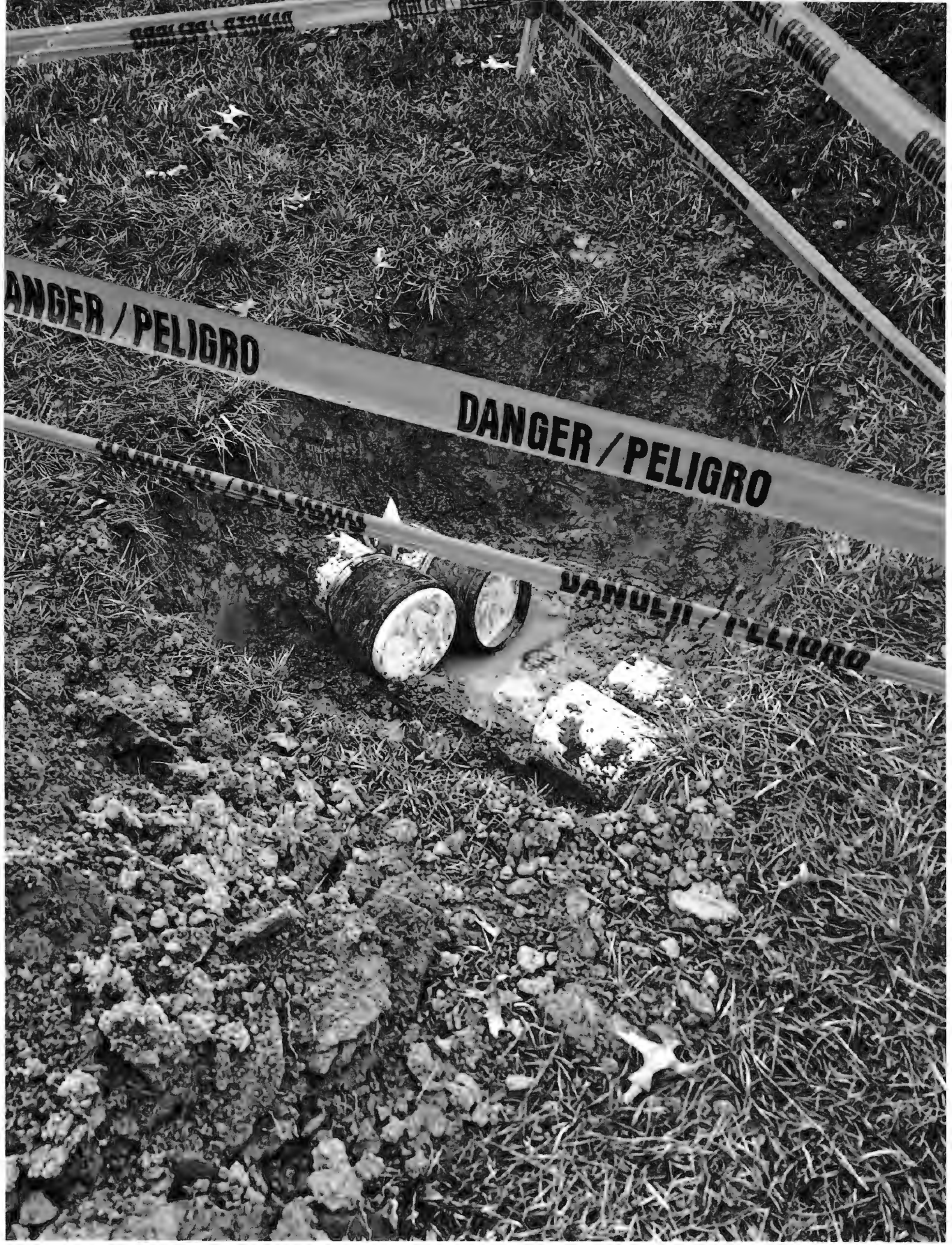
I will get back to you soon about my site visit findings regarding the outfall. Should you have any questions, please don't hesitate to ask.

Thanks,

Hank

Hank Oswald
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Bureau of Environmental Health
Howard County Health Department
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www.hchealth.org

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HOWARD COUNTY HEALTH DEPARTMENT

Mary Sue Baker, MBA, Acting County Health Officer

May 26, 1999

Thomas Beach
13343 Pipes Lane
P.O. Box 31
West Friendship, Md.
21794-0031

Re: Willow Highlands
Lots 13 and 28

Dear Mr. Beach,

Enclosed please find a copy of recommended septic system specifications for each of the above referenced properties, utilizing the platted sewage disposal easement originally established in the 1987 evaluation for each of the respective lots.

Pending review of the applicant's specific septic system elevation plans, each lot could be expected to support the wastewater handling requirements for a house of "typical" configuration for this community, i.e. not more than 5 bedrooms.

Notes in each property file pertaining to concerns about potential for complications due to seasonal fluctuations in depth to groundwater table were resolved through a second site evaluation conducted in the spring of 1991, and remain in the file only to give notice of concern in the event of a request to adjust either of the septic locations to positions lower in the landscape.

The recommendation for each system to include a second tank in series is intended to maximize performance of the initial system installation since we are aware of limitations elsewhere on these properties.

Please feel free to contact me at this office if you have any additional questions about these or other properties.

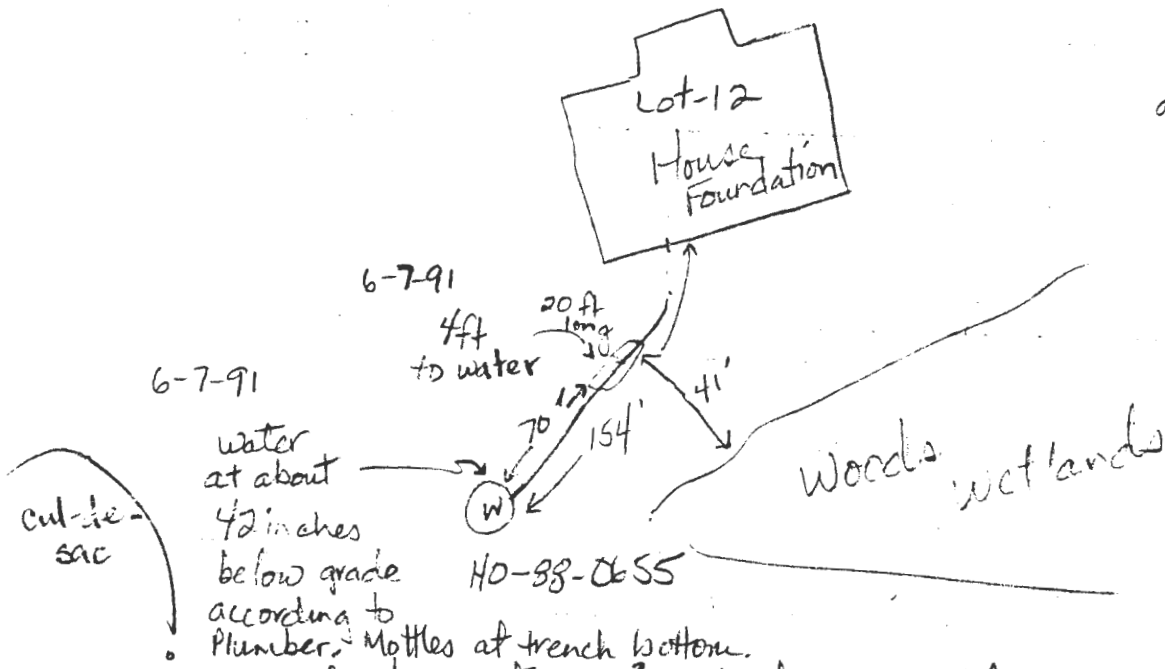
Yours truly,

Craig Williams, Sanitarian

ENC.
P.

Willow Highlands
 Lot-12
 Willow Springs Drive

6-7-91
 At 7'10" below
 grade, H₂O in stand pipe
 on Lot-13 JET.



Pitless adaptor at 36 in below grade. Well line at 4 inches below grade. House connection ok. No pump tank installed yet JENodran 6-7-91