



HOWARD COUNTY HEALTH DEPARTMENT

70117

DATE
8 / 26 / 21

PS

Received From

South Carroll Backhoe

PHONE # 410-875-4197

For

Septic Tank - 12710 Tandelphic Road

CASH

CHECK

NO.

54237

Three hundred ninety six

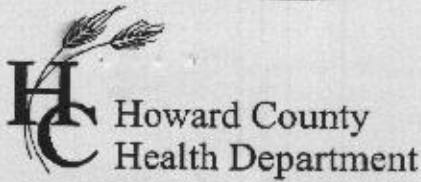
00/100 Dollars

\$

396 | 00

Received By

[Signature]



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: 04/30/2021 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 570117

APPROVAL DATE: 09/16/2021 **PERMIT: CONSTRUCTION**

A 568886

PROPERTY ADDRESS: 12710 Triadelphia Road

SUBDIVISION: _____ LOT: PAR 2 TAX ID: 03-28034

CONTRACTOR: SOUTH CARROLL BACKHOE EMAIL: _____

CONTRACTOR ADDRESS: 4410 SALEM BOTTOM ROAD 21157 PHONE: 410875 4197

PROPERTY OWNER: Ted Ludicke EMAIL: _____

OWNER ADDRESS: 12710 Triadelphia Road, Ellicott City, MD 21042 PHONE: 443-545-4847

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

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

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>91.67</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

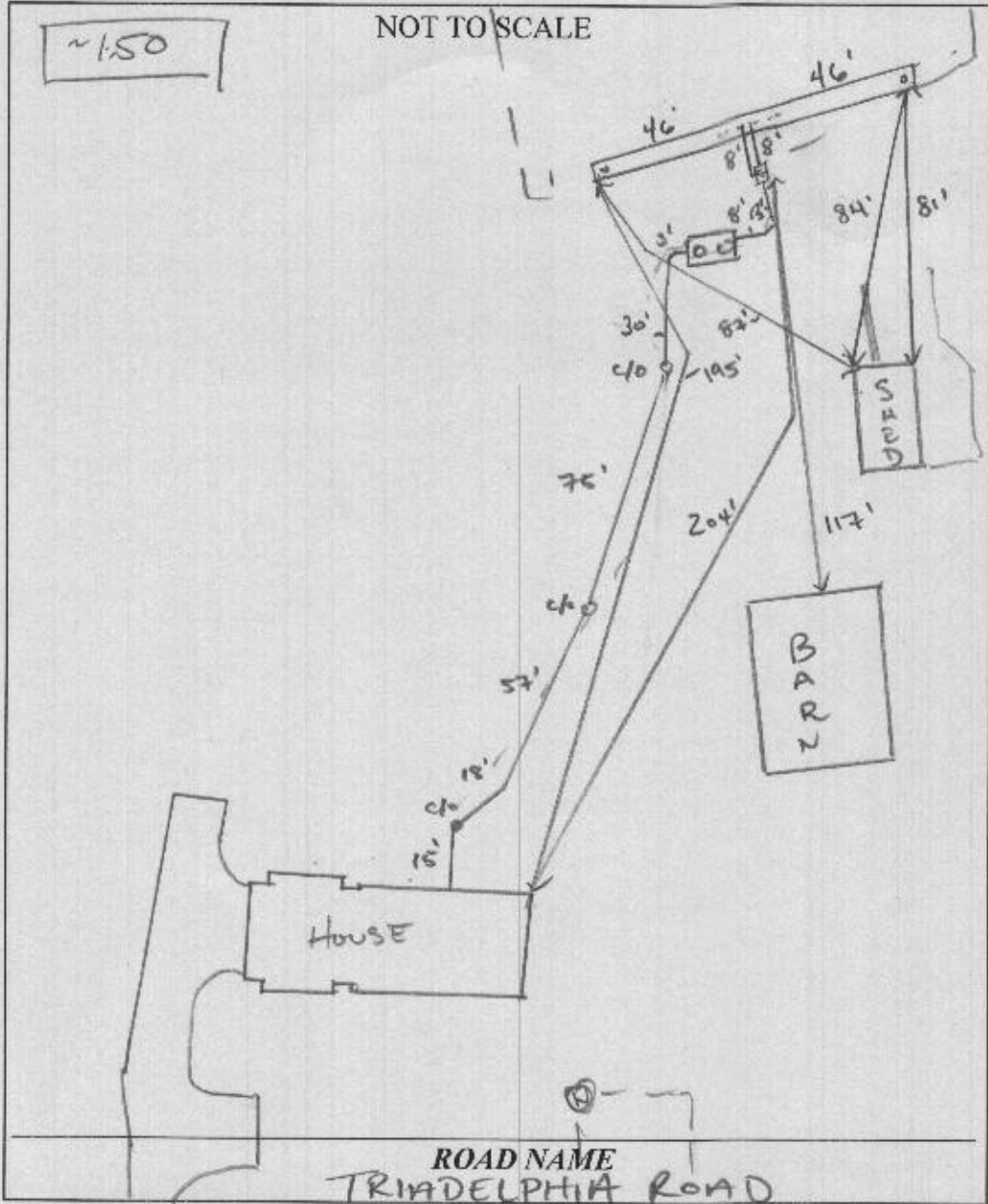
ISSUED BY: Dana Bernard ISSUE DATE: 04/30/2021 EXPIRATION DATE: 04/30/2022

- 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.**

~1.50

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3'	8'
NUMBER OF TRENCHES		1 (2)
TOTAL LENGTH		92 F
ABSORPTION AREA		276 SF + 2.5' SIDE AREA
DISTRIBUTION BOX LEVEL		SPEED
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL.
SEAM LOC	TOP
TANK LID DEPTH	1.54 - 2.04
BAFFLES	YES
BAFFLE FILTER	-
MANHOLE LOC	FRONT BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	08/03/2021

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	

PRE-CONSTRUCTION:

9/9/21 SDA not stated. 09/15/2021 Laid out 2x46' TRENCHES. OK TO DIG THROUGH.

INSTALLATION:

09/15/2021 INSTALLED SL TO TANK + HALF OF ONE TRENCH. 09/16/2021 TRENCHES COMPLETE. DBOX LEVELLED WITH SPEED LEVELS.

FINAL INSPECTOR

[Handwritten Signature]

DATE OF APPROVAL

09/16/2021



Bureau of Environmental Health

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Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

957017

INFORMATION FORM - SEPTIC SYSTEM REPAIR/UPGRADE

Reason for Request:

- Reason for Request:
- [] Failing System
- [] System relocation for proposed addition
- [] System upgrade for proposed addition
- [x] Inadequate treatment zone
- [] Collapsed septic tank
- [] Collapsed drywell

Has the septic tank been pumped within the last month?

- Has the septic tank been pumped within the last month?
- [] Yes Date pumped: _____
- [x] No

Was a visual inspection of the septic tank and/or drain fields conducted?

- Was a visual inspection of the septic tank and/or drain fields conducted?
- [] Yes Explain observations: _____
- [] No

Existing system design:

- Existing system design:
- [] Drywell
- [x] Trench
- [] Mound
- [] Unknown
- [] Other: _____

Was a visual inspection of the sewage line conducted?

- Was a visual inspection of the sewage line conducted?
- [] Yes
 - Blockage leading to the tank
 - [] Yes. Explain: _____
 - [] No
 - Blockage leading to the field
 - [] Yes. Explain: _____
 - [] No
- [] No

Is discharge surfacing on the ground?

- Is discharge surfacing on the ground?
- [] Yes
- [] No

Additional Comments: _____

*For REPAIRS, are the owners proposing, or do they plan to add in the future, any additions or modifications to the property, i.e. pools, living space additions, garages, etc? This information must be disclosed at the time of this application. The Health Department will not be able to accommodate requests in the field for property modifications unrelated to the repair request. Such requests may require an additional fee, testing, and submittal of a Percolation Certification Plan, if the property does not meet current Code and Regulation.

Septic Contractor: South Carol Backhoe Contractor's Phone: 410-596-3618
Contractor's Address: 4410 Salem Bottom Rd Westminster 21157

Property Address: 12710 Tradelphina Rd County file:
Subdivision: Lot: Year Built:
Owner's Name: Ted Ludicke Owner's Phone: 443-545-4847

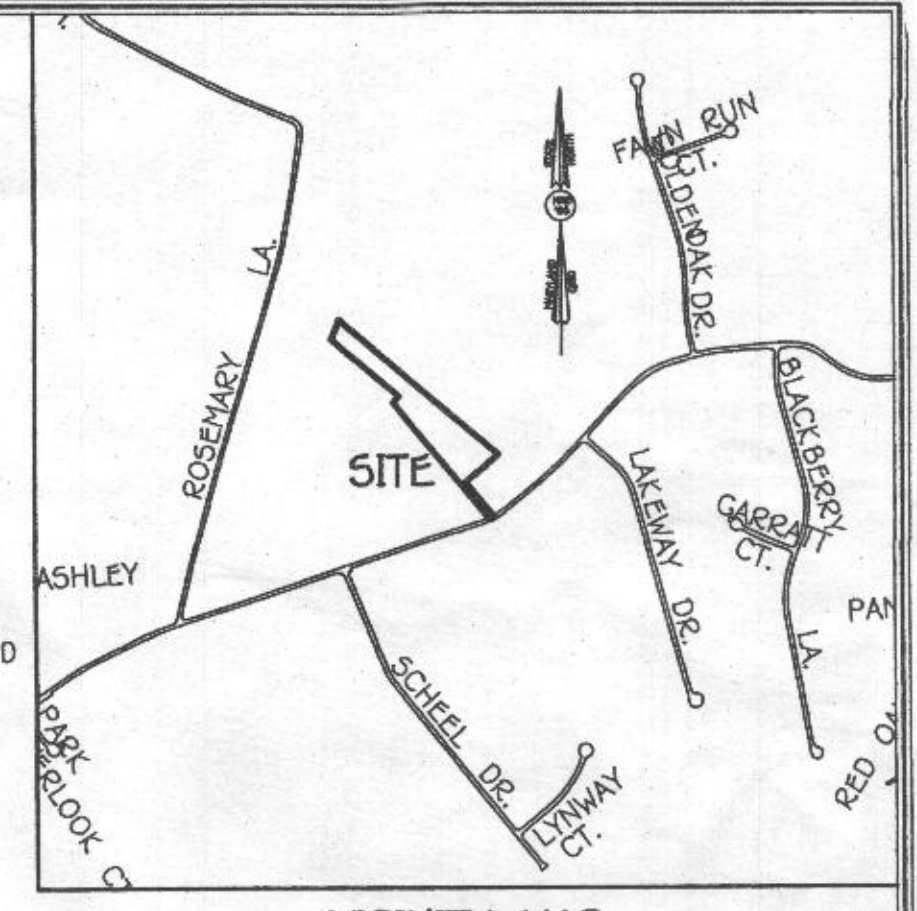
Name of previous owners: Existing bedrooms:
Proposed bedrooms: 7 4

Has this request been previously discussed with a Sanitarian? (Name):
Public Sewer available/nearby:

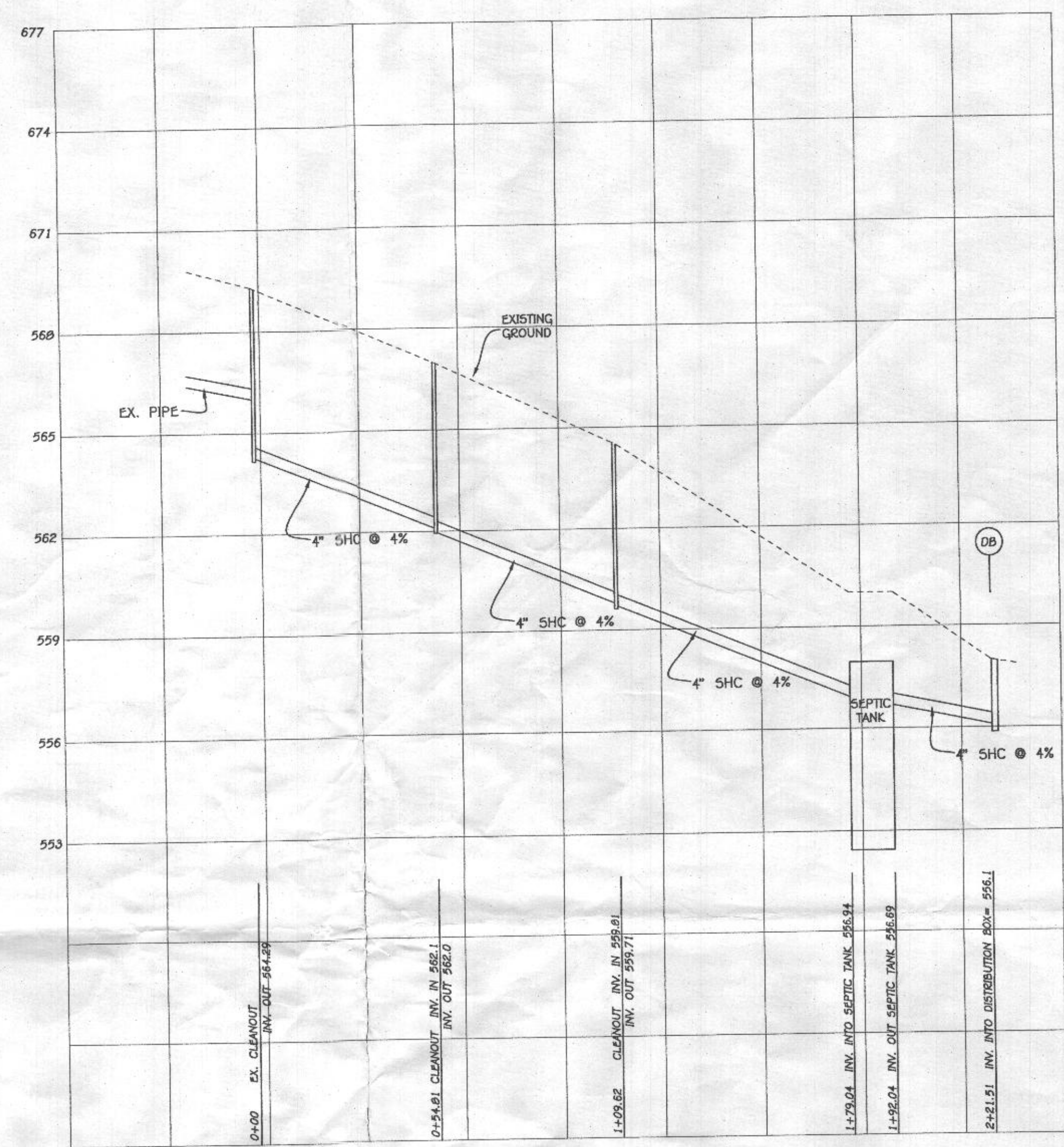
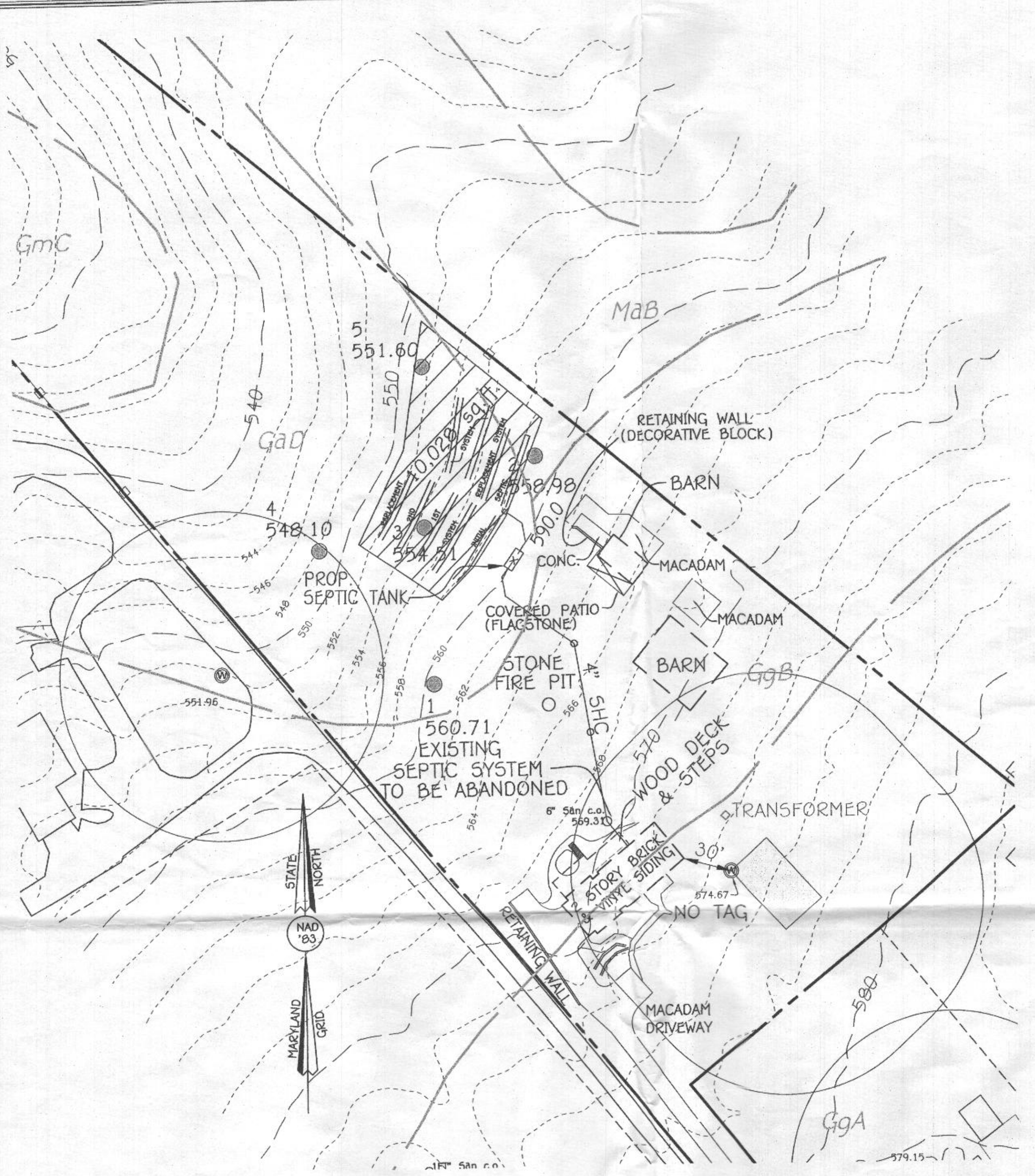
*A Sanitarian will be in contact within three business days, depending upon the urgency of the situation, to coordinate the scheduling/review of the repair or upgrade.

Prior to scheduling inspections, scaled plans should be submitted to clarify the nature of the addition.
Print out a copy of Real Property Data via Dept. of Taxation website Indexed file found
If public sewer may be nearby, verify whether sewer is technically "available" through the Bureau of Engineering.
If sewer is available and the property is within the Metropolitan District, connection to sewer is required; if the owner believes reason for exemption exists, the owner should justify the request in writing.
If soil/site conditions are limited and sewer and/or Metro District status is not conducive to connection, the Sanitarian may recommend pursuit of Emergency Sewer Extension or Emergency Metro District Inclusion. The Owner should contact the Bureau of Utilities for details.
No permit is to be issued nor inspection to be scheduled without prior fee collection at the office unless an emergency situation exists. The contractor is to notify office of the emergency situation as soon as possible.

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 (NO TAG) 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.



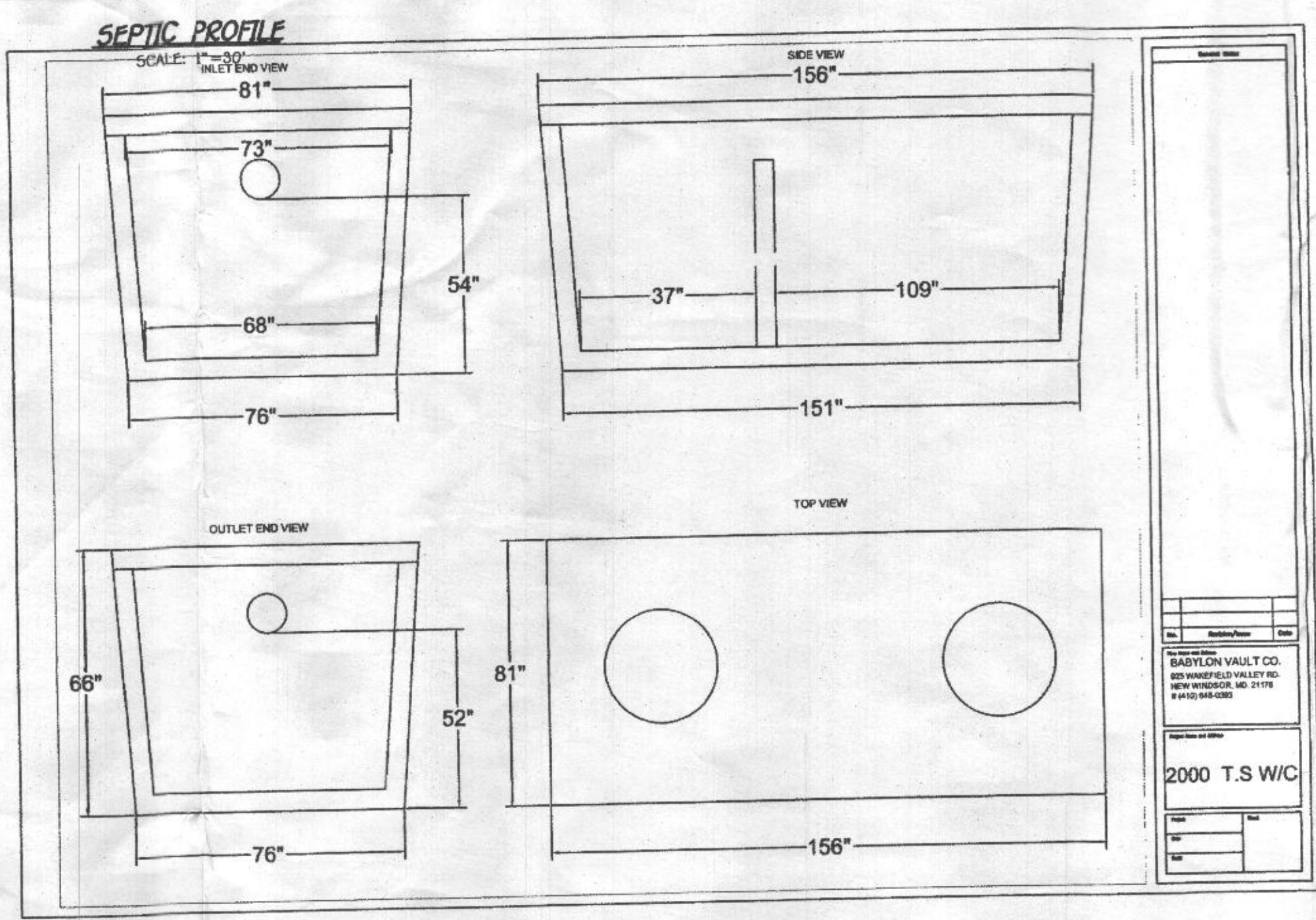
VICINITY MAP
SCALE: 1" = 1200'



INITIAL SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 4 BEDROOMS
LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 5.5 FEET
TRENCH DEPTH = 0 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2.5 FEET
SF OF DRAINFIELD = 600 GPD / 0.8 = 750 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x2.5)) = 0.55
TRENCH LENGTH = 250 SF x 0.55 = 137.50 FEET
(USE 3 TRENCHES AT 45.83 L.F.)
TRENCH SPACING = 20+W = ((2x2.5) + 3) = 8' USE 10'

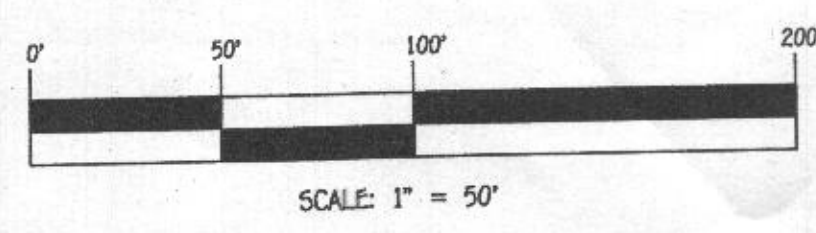
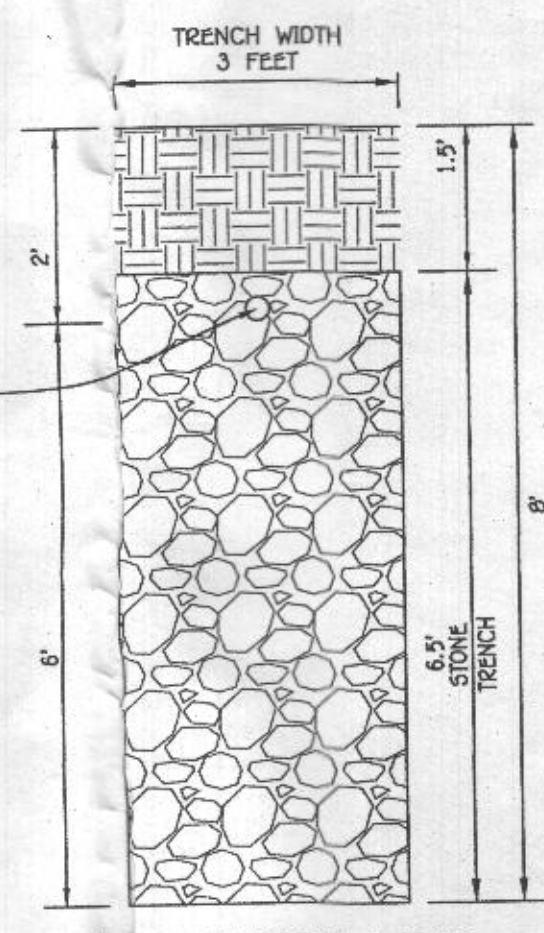
1ST REPLACEMENT SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 4 BEDROOMS
LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 GPD
APPLICATION RATE = 1.2
EFFECTIVE SIDEWALL BEGINS AT 5.5 FEET
TRENCH DEPTH = 0 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2.5 FEET
SF OF DRAINFIELD = 600 GPD / 1.2 = 500 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x2.5)) = 0.55
TRENCH LENGTH = 250 SF x 0.55 = 91.67 FEET
(USE 2 TRENCHES AT 45.83 L.F.)
TRENCH SPACING = 20+W = ((2x2.5) + 3) = 8' USE 10'

2ND REPLACEMENT SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 4 BEDROOMS
LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 6.6 FEET
TRENCH DEPTH = 0 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 1.4 FEET
SF OF DRAINFIELD = 600 GPD / 0.8 = 750 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x1.4)) = 0.73
TRENCH LENGTH = 250 SF x 0.73 = 182.50 FEET
(USE 2 TRENCHES AT 45.63 L.F.)
TRENCH SPACING = 20+W = ((2x1.4) + 3) = 5.8' USE 10'



EX. GROUND AT EX. CLEANOUT #1 = 569.3
INV. INTO CLEANOUT = 566.3
INV. OUT OF CLEANOUT = 564.29
EX. GROUND AT CLEANOUT #2 = 567.0
INV. INTO CLEANOUT = 562.1
INV. OUT OF CLEANOUT = 562.00
EX. GROUND AT CLEANOUT #3 = 564.5
INV. INTO CLEANOUT = 559.81
INV. OUT OF CLEANOUT = 559.71
EX. GROUND AT SEPTIC TANK = 560
TOP OF SEPTIC TANK = 557.94
INV. INTO SEPTIC TANK = 557.94
INV. OUT OF SEPTIC TANK = 556.94
EX. GROUND AT DISTRIBUTION BOX = 558
INV. INTO DISTRIBUTION BOX = 556.1
INV. OUT OF DISTRIBUTION BOX = 556

TRENCH DATA:
TRENCH 1:
EX. GROUND ABOVE = 558
INV. IN = 552.5
BOTTOM TRENCH = 550
TRENCH 2:
EX. GROUND ABOVE = 558
INV. IN = 552.5
BOTTOM TRENCH = 550
TRENCH 3:
EX. GROUND ABOVE = 556.2
INV. IN = 550.7
BOTTOM TRENCH = 548.2



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2999

OWNER/DEVELOPER
Ted Ludicke
12710 Triadelphia Road
Ellicott City, MD 21042
443-545-4847



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. 20740, EXPIRATION DATE: 02/22/2021.
Michael J. Vitari
Signature of Professional Engineer
7/20/21
DATE

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
157	12710 TRIADELPHIA ROAD

Approved Septic System Plan
Howard County Health Department
Dane Powell
Signature Date

SEPTIC SYSTEM
INSTALLATION SITE PLAN
12710 TRIADELPHIA RD

TAX MAP #22 GRD: 0004 PARCEL: 157
3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=100' DATE: JULY 2, 2021