

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: 6/26/18

ONSITE SEWAGE DISPOSAL SYSTEM

P 563037

APPROVAL DATE: 9/4/18 SEC

PERMIT: COMMERCIAL CONSTRUCTION

A

PROPERTY ADDRESS: 5313 Broadwater Lane

FACILITY NAME: Saima Khan and Babar Nawaz

TAX ID: _____

CONTRACTOR: Freedom Septic

EMAIL: _____

CONTRACTOR ADDRESS: 2809 Liberty Road

PHONE: _____

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: MDE MANUFACTURER:

PROPERTY OWNER: Saima Khan and Babar Nawaz

EMAIL: _____

OWNER ADDRESS: 1728 Willow Springs Drive, Sykesville, MD

PHONE: _____

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: _____

DATE RECORDED: _____

FLOW RATE (GPD): _____ BAT UNIT MODEL/SIZE: _____ GREASE TRAP SIZE: _____

PUMP SIZE: _____ PUMP TANK SIZE: _____

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>198 FT</u>	INLET DEPTH: <u>4 FT</u>
	TRENCH WIDTH: <u>3 FT</u>	MAXIMUM BOTTOM DEPTH: <u>8 FT</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11 FT</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4 FT</u>

LOCATION: **PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.**

NOTES: Install 2,000 gallon plus a 1,000 gallon septic tank and, 4 – 50 FT trenches with 4 feet of stone below invert as per plan.
** Traffic / load bearing tanks required.*
12m

ISSUED BY: Hank Oswald

ISSUE DATE: 6/26/2018

EXPIRATION DATE: 6/26/2019

- 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 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 _____
- 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.

8/27/18

NOT TO SCALE

onside w/ contractor. Tanks being dug out and being re-set. OK'd location to be re-set (>100' from edge, well). Too much soil on top of ground to re-lay out trenches. OK to continue (K) 8/28/18 Tanks set and plumbed in. Onside while upper trench being installed. Second lower trench being dug. D box set. No house connection made. Re pointed out trenches (2x50') on opp. side. OK to continue. Stone clear (K)

See separate sheet for As-Built

8/28/18 T2 complete + left open for inspection. 3' wide, 3.5' to stone. Freedom has 10' left to dig of T3, stone + pipe in trench. 3' wide 4' inlet. House connection made. (K) 8/29/18 Trenches complete. T3 left open at ends for inspection and T4 left open. 3' wide, 3.5' to stone. Levelled speed levelers in D-box. Need old septic tank pumped + filled with clean dirt once plumbing in house is connected to new system. (K) 9/4/18 Documentation received from Freedom that old septic tank was pumped + collapsed. (K)

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES		4
TOTAL LENGTH		206'
ABSORPTION AREA		618' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

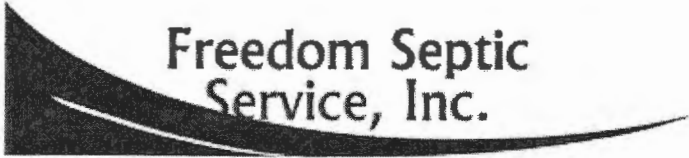
SEPTIC TANK I LEVEL	Yes
MANUFACTURER	Babylon TO
CAPACITY	2000 GAL
SEAM LOC	Top
TANK LID DEPTH	3'
BAFFLES	Yes
BAFFLE FILTER	none
MANHOLE LOC	Front/Rear
6" PORT LOC	none
WATERTIGHT TEST	N/A
SLOTTED	Yes
DATE ON LID	N/A
PUMP/SEPTIC TANK LEVEL	Yes
MANUFACTURER	Babylon TO
CAPACITY	1000 GAL
SEAM LOC	Top
TANK LID DEPTH	2.5'-3'
BAFFLES	Yes
BAFFLE FILTER	no
MANHOLE LOC	Front/Rear
6" PORT LOC	none
WATERTIGHT TEST	-
SLOTTED	no
DATE ON LID	

PRE-CONSTRUCTION:

7/3/18 No SDA staked. Met w/ contractor and property owners. Explained of future expansion addition off back of garage to expand more beds. I told them best case would be to have SDA surveyed staked in field. system elevation shot in field per OSOS plan. Tanks mound slightly down will call for inspection (K)

INSTALLATION: 7/12/18 on site just after 2000gal tank set. saw 1000-gal tank set - no obvious cracks on sides or bottom. Both tanks have traffic-bearing lids. Outlet of 1000-gal tank is 6.5', will not make inlet of 5' at trenches. Drywell already pumped + filled with dirt. Will need plans redone from engineer to include pump tank to pump effluent to 4' inlet @ trenches. May need to move tanks to lower SDA corner if there's not enough space for pump tank. Explained to owner that another option is to raise plumbing coming out of house so that tanks are shallower but he's not interested. Tied existing tank into existing trench as a temporary fix. (K) - see above -

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 9/4/18

The logo for Freedom Septic Service, Inc. features a stylized black and white graphic on the left, resembling a curved arrow or a drop, with the company name in a bold, sans-serif font to its right.

**Freedom Septic
Service, Inc.**

**2809 Liberty Rd.
Sykesville, MD 21784
410-795-2947**

August 31, 2018

RE: 5313 Broadwater Ln., Clarksville, MD 21029

To Whom It May Concern,

Freedom Septic Service, Inc. went out the above referenced property today and completed all the necessary work for the septic installation. The septic tank was pumped, collapsed and abandoned. All trenches have been backfilled and the new system is completely tied in to the property. The septic install has been completed.


Sincerely,

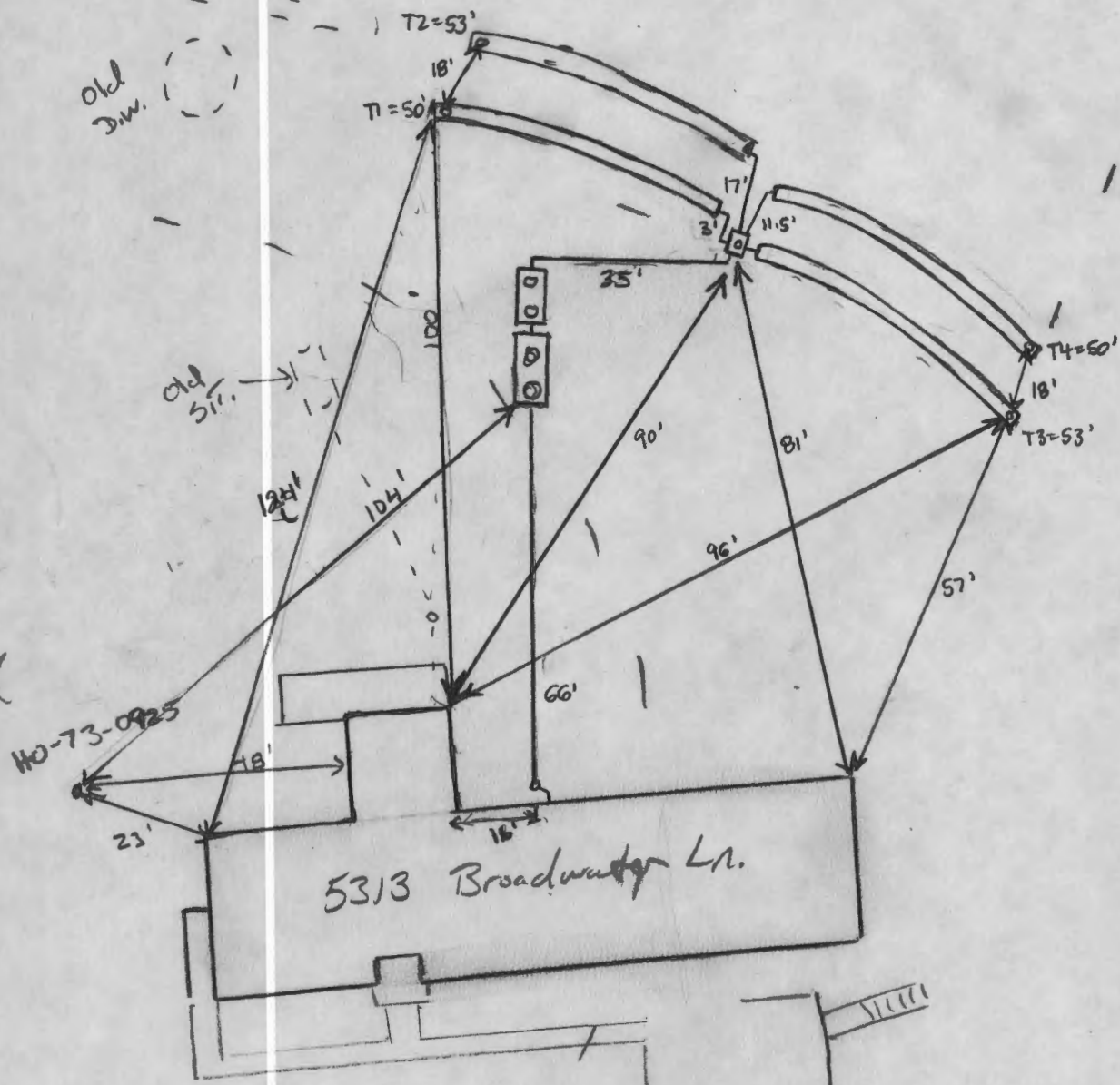
Kristin Greisz


Kristin Greisz

1" = 30'



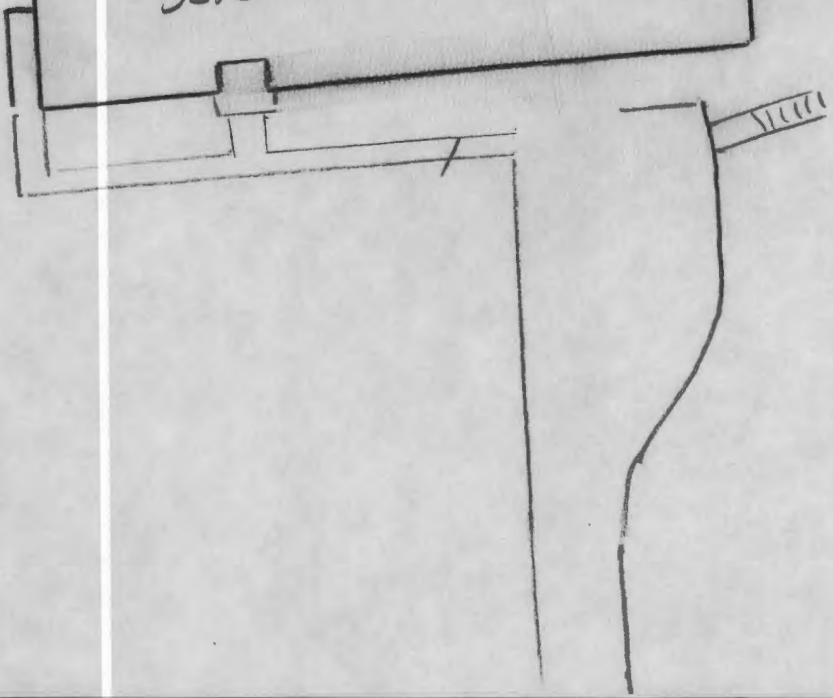
Old D.W. 



Old S.P. 

HO-73-0925

5313 Broadway Ln.



SYMBOLS LEGEND

- INDICATES PERCOLATION TEST LOCATION (SEE TEST RESULTS ON THIS SHEET AND SHEET 2)
- INDICATES EXISTING WELL LOCATION
- INDICATES ALTERNATE WELL LOCATION
- INDICATES EXISTING GROUND CONTOUR LINE
- THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ.FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECONSTRUCTION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
- INDICATES PRIVATE SEPTIC SYSTEM DRAIN LINES TO BE INSTALLED (SEE SEWAGE FLOW CALCULATIONS) (SEE SHEET 2 FOR SYSTEM PROFILE and SPECIFICATIONS)
- INDICATES REPLACEMENT PRIVATE SEPTIC SYSTEM DRAIN LINES (SEE SEWAGE FLOW CALCULATIONS)

PROPOSED PRIVATE SEWERAGE DISPOSAL SYSTEM:
 INITIAL SEWERAGE DISPOSAL SYSTEM SHALL CONSIST OF:
 4 (FOUR) DEEP TRENCH DRAIN LINES, EACH 3FT. WIDE, 50'-0" LONG, WITH 4.0 FT. DEPTH OF STONE BELOW INVERT OF THE DRAIN LINE.
 1ST REPLACEMENT SEWERAGE DISPOSAL SYSTEM SHALL CONSIST OF:
 4 (FOUR) DEEP TRENCH DRAIN LINES, EACH 3FT. WIDE, 50'-0" LONG, WITH 4.0 FT. DEPTH OF STONE BELOW INVERT OF THE DRAIN LINE.
 2ND REPLACEMENT SEWERAGE DISPOSAL SYSTEM SHALL CONSIST OF:
 3 (THREE) DEEP TRENCH DRAIN LINES, EACH 3FT. WIDE, 71'-8" LONG, WITH 3.5 FT. DEPTH OF STONE BELOW INVERT OF THE DRAIN LINE.
 SEE SHEET 2 FOR SYSTEM PROFILE and SPECIFICATIONS.

ABANDON EXISTING 1,250 GALLON SEPTIC TANK IN ACCORDANCE WITH HOWARD COUNTY HEALTH DEPARTMENT REQUIREMENTS. INSTALL (1)-2,000 GALLON AND (1)-1,000 GALLON, TOP SEAM, SINGLE COMPARTMENT, CONCRETE SEPTIC TANK IN SERIES AS SHOWN.

NOTE: EXISTING INTERIOR PLUMBING TO BE REWORKED FOR SANITARY SEWER TO EXIT THRU BASEMENT WALL AT AN ELEVATION OF 548.50.

STEVE W. GILLIECE
 KATHLEEN GILLIECE
 DEED: C.M.P. 1164/746
 #13111 LINDEN CHURCH RD.

WILLARD MORICE
 KAY MORICE
 DEED: M.I. 2691/640
 #5345 BROADWATER LANE

JOSEPH M. MILLS, JR., TRUSTEE
 LINDA ASHDOWN, TRUSTEE
 DEED: M.D.R. 11193/30
 #5341 BROADWATER LANE

ALLEN W. CURRANO, TRUSTEE
 BARBARA A. CURRANO, TRUSTEE
 DEED: W.A.R. 17236/147
 #13025 LINDEN CHURCH RD.

PAUL W. VON STEIN, TRUSTEE
 ELISABETH A. VON STEIN, TRUSTEE
 DEED: M.D.R. 9799/723
 #13015 LINDEN CHURCH RD.

HERMAN RUBENSTEIN
 ELIZABETH RUBENSTEIN
 DEED: C.M.P. 1090/635
 #5317 BROADWATER LANE

Approved Septic System Plan
 Howard County Health Department
 Gravity system with
 a 2000-gal & a 1000-gal
 single-chamber tanks
 RBrieler
 Signature
 7/30/2018
 Date

SUBDIVISION/SITE: **#5313 Broadwater Lane, Clarksville**

Test #	Test Type	Ground Elev.	Percolation Rate	Percolation Rate	Comments	Date	Test #	San.
A	DT	748.15	7 min at 5.5 ft		~8 minutes at 16.5 feet	07/25/17	A	Wolf
B	DT	745.75	2 min at 4.5 ft	3 min at 6 ft	>2 minutes at 16.0 feet	07/25/17	B	Wolf
C	DT	746.40	5 min at 4.8 ft		>2 minutes at 15.0 feet	12/28/17	C	Bricker
D	OH	742.35			>2 minutes at 15.0 feet	12/28/17	D	Bricker
E	DT	741.60	2 min at 5.5 ft		>2 minutes at 15.0 feet	12/28/17	E	Bricker

SEWAGE FLOW CALCULATIONS

Calculations based on State of Maryland COMAR 26.04.02.05
 Proposed 14 bedroom Assisted Living Facility with Resident Family
 Design flowrate = 100 gallons per day per bedroom (Assisted Living Facility)
 150 gallons per day per bedroom (Resident Family)

SEWAGE FLOW = (14 beds) x (100 GPD) + (2 bedrooms) x (150 GPD)
 SEWAGE FLOW = 1,700 gallons per day (GPD)

Maximum Load Rate = 1.2 GPD / SQ.FT.
 Absorptive Area = 1,700 GPD / (1.2 GPD / SQ.FT.) = 1,417 SQ.FT.

SEPTIC TANK DESIGN

Tank Volume = 1,125 + 0.75 x (1,700) = 2,400 gallons
 An existing 1,250 gallon septic tank is currently installed for the existing house at #5313 Broadwater Lane. This existing tank is to be abandoned per Health Department requirements and (1) proposed 2,000 gallon septic tank and (1) proposed 1,000 gallon septic tank, single compartment, shall be installed (in series) to provide the required volume.

SEWAGE DISPOSAL SYSTEM DESIGN

DEEP TRENCH SYSTEM DESIGN (INITIAL and 1ST REPLACEMENT SYSTEM)

Length of standard trench (3ft. wide) = 1,417 sq. ft. = 473 ft.
 Trench stone depth = 4.0 feet
 Deep trench conversion factor = (w+2) / (w+1+2d) = 41.67%
 Length of deep trench required = (473 ft.) x (0.4167) = 198 ft.
 198 feet of deep trench with a stone depth of 4.0 feet is required.
 Use four deep trench drain lines, each 3.0 ft. wide, 50'-0" feet long, with a depth of stone of 4.0 feet below invert of drain line.

DEEP TRENCH SYSTEM DESIGN (2ND REPLACEMENT SYSTEM)

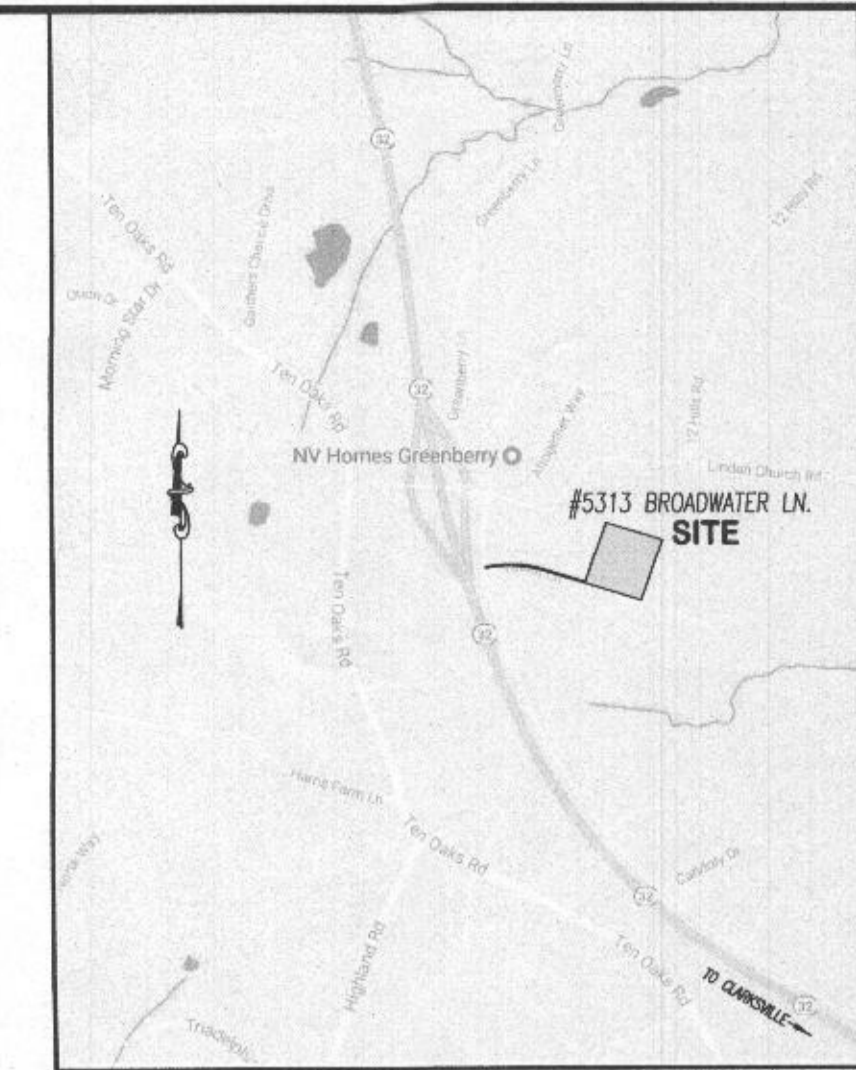
Length of standard trench (3ft. wide) = 1,417 sq. ft. = 473 ft.
 Trench stone depth = 3.5 feet
 Deep trench conversion factor = (w+2) / (w+1+2d) = 45.45%
 Length of deep trench required = (473 ft.) x (0.4545) = 215 ft.
 215 feet of deep trench with a stone depth of 4.0 feet is required.
 Use three deep trench drain lines, each 3.0 ft. wide, 71'-8" feet long, with a depth of stone of 3.5 feet below invert of drain line.

GENERAL NOTES:

- Zoning: RR-DEO (RURAL RESIDENTIAL - DENSITY EXCHANGE OPTION)
- Current Title Reference:
 TAX MAP: 28 GRID: 15 PARCEL: 185 TAX ACCT. NO.: 05-370019
 SAIMA KHAN BABAR NAWAZ
 DEED: W.A.R. 17849/316 5.000 ACRES±
- The topography of this plot is taken from Howard County GIS data and was field verified and updated on October 20, 2017 by Leon A. Podolak & Associates, LLC.
- Water: PRIVATE
 Sewer: PRIVATE
- Soil types shown hereon were taken from the National Resources Conservation Service Web Soil Survey 2.0, National Cooperative Soil Survey, Howard County, Maryland (MD013), Soil Maps Version 12, Sept. 18, 2017. (<http://weboilsurvey.nrcs.usda.gov>)
- Any changes to a private sewage easement shall require a revised percolation certification plan.
- 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.
- The purpose of this plan is to upgrade the private sewerage facilities and designate an area of at least 10,000 sq.ft. for private sewerage facilities, for the existing dwelling at #5313 Broadwater Lane, to comply with Howard County Code.
- The Health Department recognizes that the wastewater sample analyzed for BOD and TSS was obtained from a septic system that is substandard and has treatment capability that is less than optimal. These results are accepted in relation to the current proposal for expansion of the facility to eight beds. For Health Department consideration of future expansion a wastewater sample from the upgraded septic system shall be obtained and analyzed for BOD and TSS.

TO BROADWATER LANE

PLAN VIEW
 SCALE: 1"=50'



ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN for #5313 BROADWATER LANE
 (RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN DEED: W.A.R. 17849/316)
 #5313 BROADWATER LANE
 5-TH ELECTION DISTRICT
 NEAR CLARKSVILLE
 HOWARD COUNTY, MARYLAND

PROPERTY OWNERS / APPLICANT
 SAIMA KHAN
 BABAR NAWAZ
 #5313 BROADWATER LANE
 CLARKSVILLE, MARYLAND 21029
 PHONE: 301-233-2421

#5313 BROADWATER LANE HOWARD CO. TAX MAP: 28 GRID: 15 PARCEL: 185 TAX ACCT. NO.: 05-370019

LEON A. PODOLAK and ASSOCIATES, L.L.C.

SHEET 1 OF 2

I hereby certify that the information shown hereon is based on field work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief.

Leon A. Podolak
 PETER L. PODOLAK, P.E. Reg. no. 19561

STATE OF MARYLAND
 LEON A. PODOLAK
 PROFESSIONAL ENGINEER
 No. 19561

SURVEYING and CIVIL ENGINEERING
 147 East Main St., (P.O. Box 206) Westminster, Maryland 21157
 (410) 848-2229 - (410) 878-1226

Leon A. Podolak
 Peter L. Podolak, P.E. Date

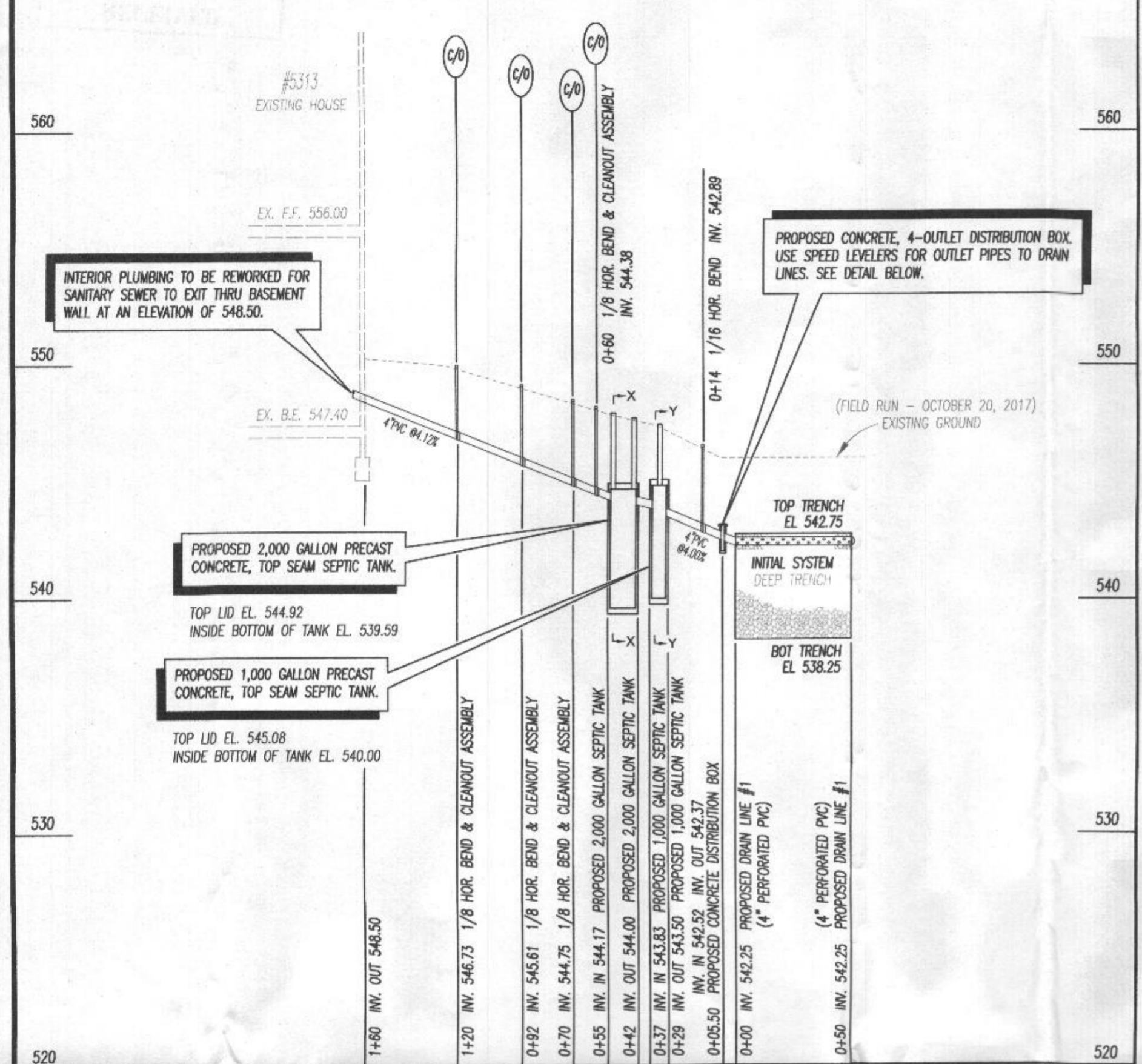
I hereby certify that these documents were prepared or approved by me, and I am a duly licensed professional engineer under the laws of the State of Maryland, license no. 19561, expiration date: 3-3-2020.

Date: Nov. 28, 2017
 Scale: 1"=50'
 Drawing No. _____

\\Vop\Job Files\Newoz\ON-SITE SEWAGE DISPOSAL DESIGN PLAN - #5313 Broadwater Ln (NAWAZ) r4.dwg 7-25-2018

#5313 BROADWATER LANE

NOTE:
ABANDON EXISTING 1,250 GALLON SEPTIC TANK IN ACCORDANCE WITH HOWARD COUNTY HEALTH DEPARTMENT REQUIREMENTS. INSTALL (1)-2,000 GALLON AND (1)-1,000 GALLON, TOP SEAM, SINGLE COMPARTMENT, CONCRETE SEPTIC TANKS IN SERIES AS SHOWN.



SEPTIC SYSTEM PROFILE (#5313 BROADWATER LANE)

SCALE: HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

PROPOSED PRIVATE SEWERAGE DISPOSAL SYSTEM:
INITIAL SEWERAGE DISPOSAL SYSTEM SHALL CONSIST OF:
4 (FOUR) DEEP TRENCH DRAIN LINES, EACH 3FT. WIDE, 50'-0" LONG, WITH 4.0 FT. DEPTH OF STONE BELOW INVERT OF THE DRAIN LINE.
1ST REPLACEMENT SEWERAGE DISPOSAL SYSTEM SHALL CONSIST OF:
4 (FOUR) DEEP TRENCH DRAIN LINES, EACH 3FT. WIDE, 50'-0" LONG, WITH 4.0 FT. DEPTH OF STONE BELOW INVERT OF THE DRAIN LINE.
2ND REPLACEMENT SEWERAGE DISPOSAL SYSTEM SHALL CONSIST OF:
3 (THREE) DEEP TRENCH DRAIN LINES, EACH 3FT. WIDE, 71'-8" LONG, WITH 3.5 FT. DEPTH OF STONE BELOW INVERT OF THE DRAIN LINE.

SEE SHEET 2 FOR SYSTEM PROFILE and SPECIFICATIONS.

PERFORATED PIPE ELEVATIONS

INITIAL SYSTEM

DRAIN LINES #1 & #2 - INV. 542.25 PROPOSED DRAIN FIELDS (4" PERFORATED PVC)
DRAIN LINES #3 & #4 - INV. 542.00 PROPOSED DRAIN FIELDS (4" PERFORATED PVC)

1ST REPLACEMENT SYSTEM

DRAIN LINES #1 & #2 - INV. 541.00 PROPOSED DRAIN FIELDS (4" PERFORATED PVC)
DRAIN LINES #3 & #4 - INV. 540.00 PROPOSED DRAIN FIELDS (4" PERFORATED PVC)

2ND REPLACEMENT SYSTEM

DRAIN LINE #1 - INV. 540.00 PROPOSED DRAIN FIELD (4" PERFORATED PVC)
DRAIN LINE #2 - INV. 539.00 PROPOSED DRAIN FIELD (4" PERFORATED PVC)
DRAIN LINE #3 - INV. 538.00 PROPOSED DRAIN FIELD (4" PERFORATED PVC)

ON-SITE SEWAGE DISPOSAL PLAN NOTES:

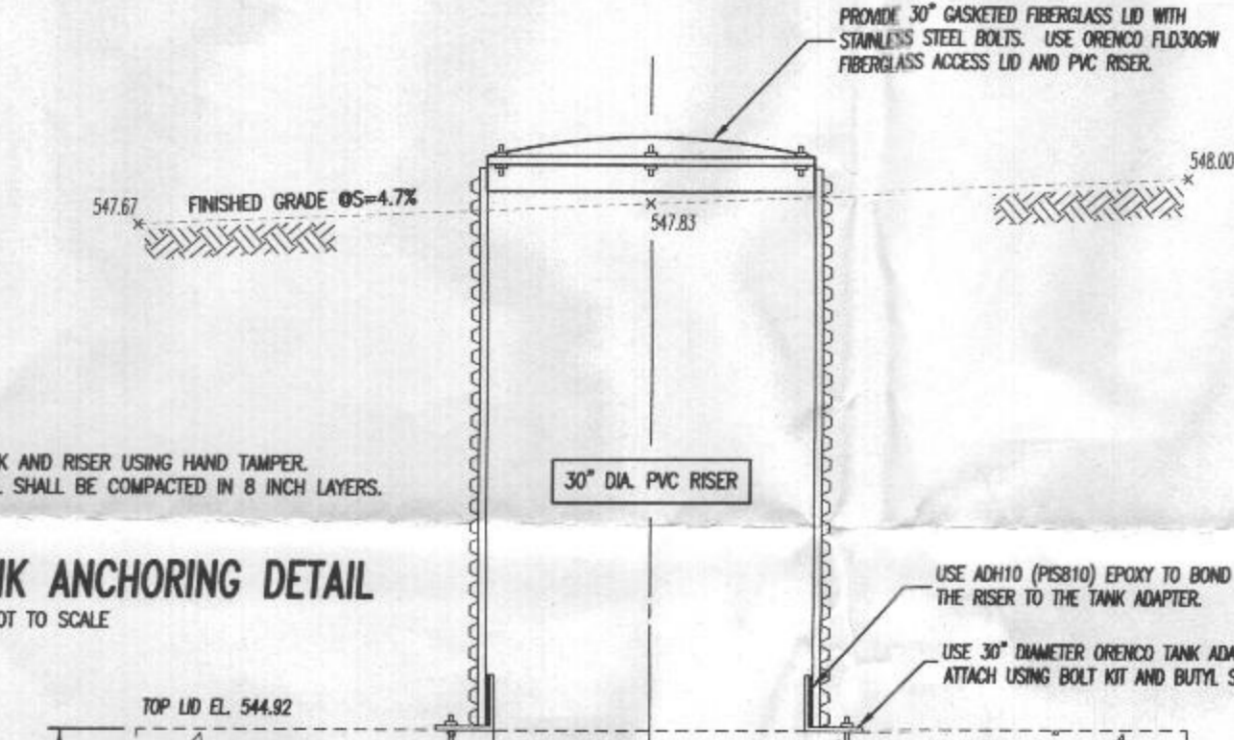
- Any change to the locations or depths to any components must be approved by the engineer and the Howard County Health Department prior to installation. A revised site plan may be required.
- The maximum earth cover over the tanks is 3 feet. Greater earth cover will require a heavy load bearing tank.
- Electrical work for the installation must be performed by a licensed electrician.
- The well (tag # HO-73-0925) has been field located and is accurately shown.
- 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.

CONSTRUCTION NOTES:

- COMPACT AROUND TANK AND RISER USING HAND TAMPER. ALL BACKFILL MATERIAL SHALL BE COMPACTED IN 8 INCH LAYERS.

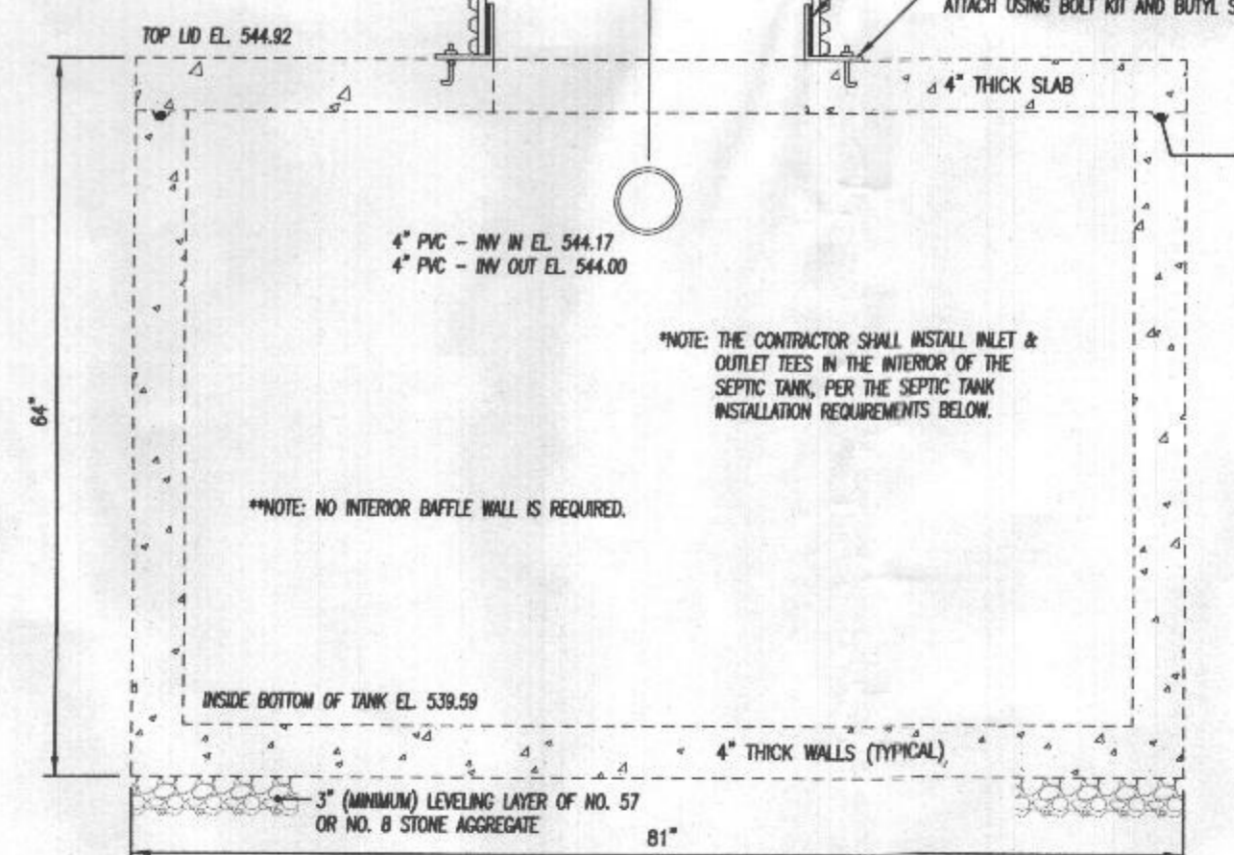
30" RISER TANK ANCHORING DETAIL

NOT TO SCALE



2,000 GALLON SEPTIC TANK DETAIL (SECTION X-X)

NOT TO SCALE



SEPTIC TANK INSTALLATION REQUIREMENTS

THE FOLLOWING REQUIREMENTS APPLY TO THE INSTALLATION OF SEPTIC TANKS.

- THE INLET AND OUTLET TEES SHALL BE LOCATED A MINIMUM OF 6 INCHES FROM THE OPENINGS OF THE TANK.
- THE TEES SHALL EXTEND FROM NEAR THE TOP OF THE TANK TO A POINT 16 INCHES BELOW THE INVERTS OF THE OPENINGS.
- SANITARY TEES SHALL CONFORM TO THE FOLLOWING STANDARDS:
 - THE INLET TEE'S VERTICAL LEG MUST BE A MINIMUM OF 6 INCHES IN DIAMETER AND ITS HORIZONTAL LEG A MINIMUM OF 4 INCHES IN DIAMETER.
 - THE OUTLET TEE'S VERTICAL AND HORIZONTAL LEGS SHALL BE A MINIMUM OF 4 INCHES IN DIAMETER.
 - THE VERTICAL LEG OF BOTH THE INLET AND OUTLET TEE MUST EXTEND 16 INCHES BELOW THE INVERT OF THE HORIZONTAL LEG AND NOT LESS THAN 3 INCHES ABOVE THE CROWN OF THE HORIZONTAL LEG.
 - TEES SHALL BE CONSTRUCTED OF SCH 40 OR SDR 35 PVC PIPE.

PERCOLATION TEST RESULTS

TESTS TAKEN: DECEMBER 26, 2017
HOWARD COUNTY SANTARIAN: ROBERT BRICKER

A602352 6313 Broadwater Lane

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	PERF
12/26/17	A	48"	11:15	11:18	11:23	5	P
12/26/17	E	5.5'	11:20	11:23:30	11:24:30	21	P
12/26/17	D	15'	Visual	12:00/12:02			P

REMARKS: Perc for SDA; see results for A & B, 7/25/17
SANTARIAN: Bricker BACKHOE: Freedom Soils & Soil Alterations, P.C.
TEST HOLES USED IN SOA: TRENCH WIDTH: INLET DEPTH: MAX. BOT DEPTH: EFFECTIVE SW: 11-12'

PERCOLATION TEST RESULTS

TESTS TAKEN: JULY 25, 2017
HOWARD COUNTY SANTARIAN: KEVIN WOLF

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	PERF
7/25/17	A	5 1/2'	00:51	00:54	01:01	7	P
	B	16"	00:50	00:51	00:51	2	P
	C	16"	00:51	00:51	00:51	2	P
	D	4'	00:53	00:53	00:53	2	P

REMARKS: See notes on site for details (will not show plan) (will not show plan)
SANTARIAN: K. Wolf BACKHOE: Don OTHERS: Halsey, a contractor
TEST HOLES USED IN SOA: TRENCH WIDTH: INLET DEPTH: MAX. BOT DEPTH: EFFECTIVE SW: 16'
* Loading Rate for Final system 12

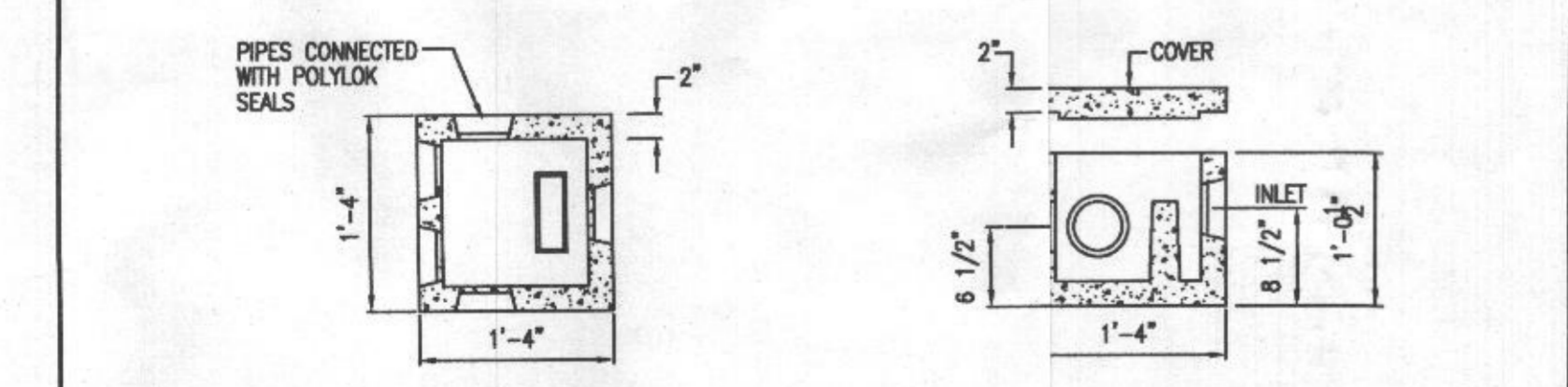
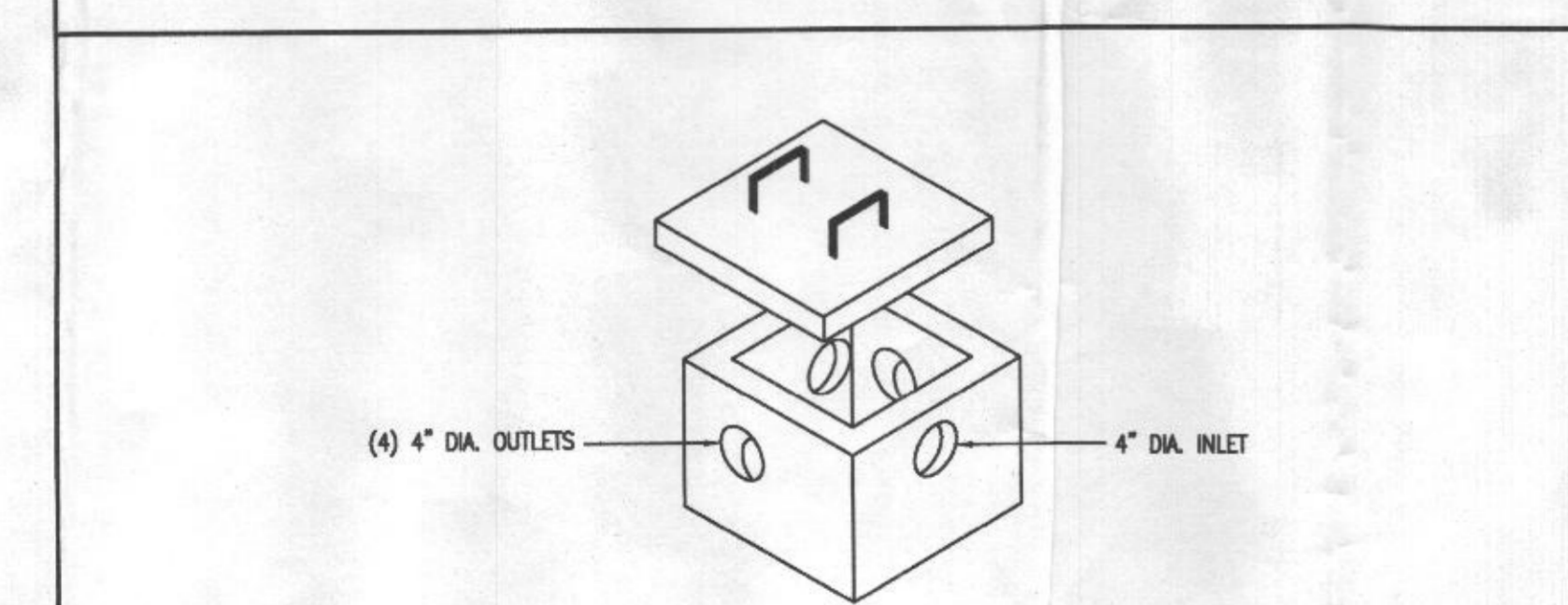
**FILTER CLOTH SPECIFICATIONS

FILTER CLOTH SHALL MEET OR EXCEED THE FOLLOWING PHYSICAL PROPERTIES:

- Permittivity (ASTM D4918) = 0.1 sec⁻¹ (MIN)
- Opening Size (ASTM D4751-87) = 60 (U.S. sieve size) (MAX)
- Flowrate (ASTM D4451-85) = 10 gal/min/ft (MIN)
- Mullen Burst (ASTM D3786) = 200 psi (MIN)

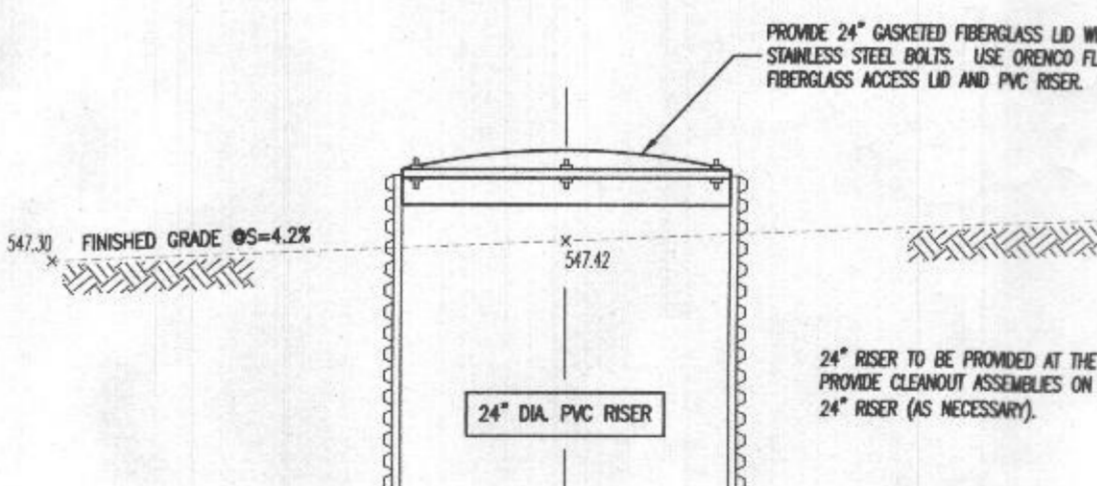
Approved Septic System Plan
Howard County Health Department
Gravity system with
a 2000-gal & a 1000-gal
single-chamber tanks
R. Bricker 7/30/2018

4 OUTLET DISTRIBUTION BOX



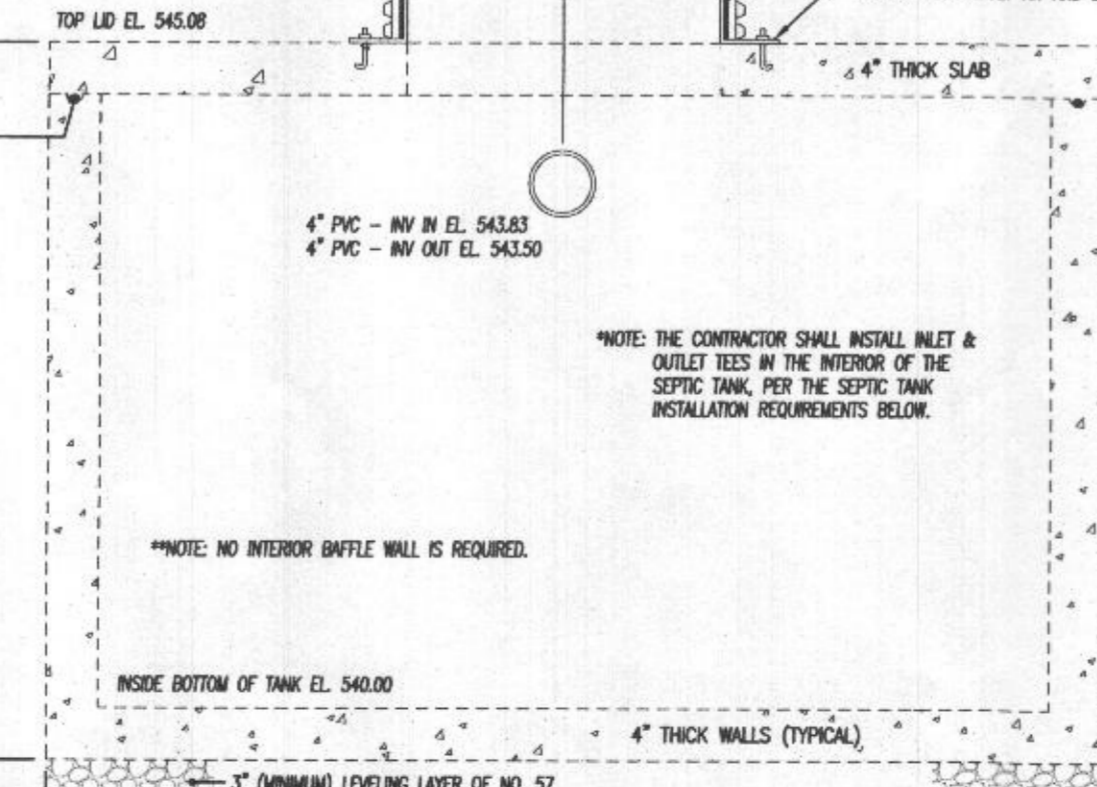
GENERAL NOTES:
CONCRETE TO BE MIN. 5000 PSI @ 28 DAYS
ENTRAINED AIR 5% - 8%
STEEL REINFORCEMENT - ASTM A 615 GRADE 60
BUILT IN ACCORDANCE TO ASTM C-1227/C913 (300 PSI)

PROPOSED SINGLE CHAMBER, PRECAST CONCRETE, TOP SEAM, SEPTIC TANKS BY BABYLON VAULT CO. OR APPROVED EQUIVALENT. BABYLON VAULT COMPANY 925 WAKEFIELD VALLEY ROAD NEW WINDSOR, MD 21776 PHONE: (410) 848-0393



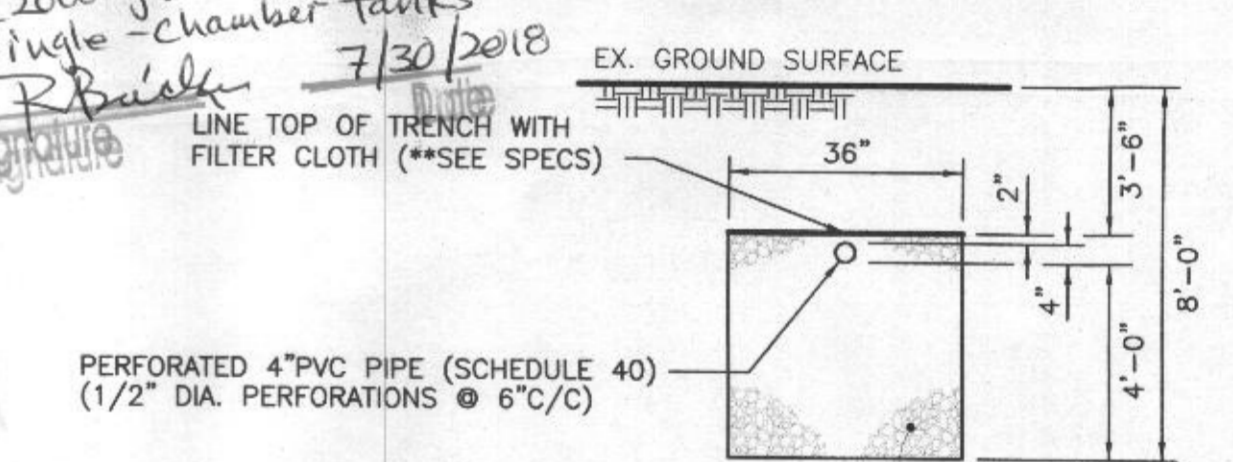
24" RISER TANK ANCHORING DETAIL

NOT TO SCALE



1,000 GALLON SEPTIC TANK DETAIL (SECTION Y-Y)

NOT TO SCALE



DEEP TRENCH DETAIL

NOT TO SCALE

PERCOLATION TEST RESULTS, SYSTEM PROFILE and SPECIFICATIONS

#5313 BROADWATER LANE HOWARD CO. TAX MAP: 28 GRID: 15 PARCEL: 185 TAX ACCT. NO.: 05-370019

SHEET 2 OF 2

LEON A. PODOLAK and ASSOCIATES, L.L.C.

SURVEYING and CIVIL ENGINEERING
147 East Main St. (P.O. Box 266) Westminster, Maryland 21157
(410) 848-2228 - (410) 876-1226

Date: 11-23-2018
Revision: PERC TEST RESULTS
2-27-2018: CHANGE BEDDINGS
3-27-2018: HEALTH DEPT COMMENTS
4-9-2018: ADD CONCRETE D-BOX
6-7-2018: HEALTH DEPT COMMENTS
7-25-2018: REVISE SYSTEM DESIGN

Leon A. Podolak, P.E.
I hereby certify that these documents were prepared or approved by me, and I am a duly licensed professional engineer under the laws of the State of Maryland, license no. 19361, expiration date: 3-3-2020.

Date: Nov. 28, 2017
Scale: 1"=50'
Drawing No.:

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: Peter Podolak [mailto:pete@lapodolak.com]
Sent: Thursday, July 12, 2018 11:31 PM
To: Bricker, Robert; Wolf, Kevin; Babar Nawaz
Subject: 5313 Broadwater Lane

Attached please find an As-Built survey of the sewage disposal system, partially installed, for the above referenced property. The "As-Built" locations are depicted in red on the attachment. Based on the survey, the existing system, at its terminus, is about 2 feet lower than the plan grades called for.

I don't know if you would allow us to lower the bottom elevation of the deep trench system, that was originally designed, to compensate for the unusually deep sewer line on this property.
Please Advise.

If not, the depth of stone in the primary sewage disposal system could be reduced by two feet and still accommodate an eleven bedroom Assisted Living Facility, with 3 full time staff members. I have attached sewerage calculations below. Such a revision would still allow gravity flow to the primary and two replacement systems.

Sewage Flow Calculations:

Calculations based on State of Maryland COMAR 26.04.02.05

Proposed 11 bedroom Assisted Living Facility with 3 staff members

Design Flowrate = (100 gallons per day per bedroom)(11 bedrooms) + (3 staff)(15 gpd/staff) = 1145 gpd

Maximum Loading Rate = 1.2 gpd/sq ft

Required Absorptive Area = 1145 gpd / 1.2 gpd /sq ft = 955 sq ft.

Deep Trench Design: Initial system.

Length of Standard Trench 3 feet wide = $\frac{955 \text{ sq ft}}{3 \text{ ft}} = 318 \text{ feet}$

Use a deep trench system with a 2 foot depth of stone:

Deep Trench Conversion Factor = $(w + 2) / (w + 1 + 2d) = 62.5 \%$

Length of Deep Trench Required = 199 feet

Use four deep trench drain lines, each 3 foot wide and 50 feet long, with a depth of stone of 2 feet.

In completing this design we were hoping to accommodate future expansion of the Assisted Living Facility to the maximum of 16 beds. The current renovations are only for 8 beds, so the primary system would still enable an expansion of 3 beds if the depth of stone is reduced.

Another option would be to redesign the second replacement system for a 4 foot depth of stone, removing one of the lines and shift the lines down hill. This could provide an additional bedroom for the primary system.

I will contact you to discuss this in greater detail tomorrow. Thank you,

Pete Podolak



Leon A. Podolak & Associates, LLC

Surveying / Civil Engineering

147 E. Main St PO Box 266

Westminster, MD 21157

(410) 848-2229 (410) 876-1226

FAX - (410) 848-2258

email- drawings@lapodolak.com

Wolf, Kevin

From: Wolf, Kevin
Sent: Friday, July 13, 2018 11:21 AM
To: 'Peter Podolak'; Babar Nawaz
Cc: Bricker, Robert; Davis, Michael J; Kristin Greisz (kristin@freedomseptic.com)
Subject: RE: 5313 Broadwater Lane

Peter,

After reviewing this project and where we are right now, the Health Department cannot allow Freedom Septic to proceed with the current septic system install. The approval of a trench inlet invert depth below 6ft is not something we condone. It poses potential issues in the future to the soil absorption system as well as the overall performance of the trenches and system functionality. Not to mention this is an unsafe practice for the installers and our inspections as we need to get in and around the trench to inspect.

From here, you will need to either have the plumbing at the house re-designed with an ejector pit in the basement so that the plumbing is a workable depth with an ejector pit in the basement or revise the current OSDS plan to show a pump system adequate enough to support the design flow we have. Please note the septic tanks that were set in the ground yesterday would have to be relocated to meet a less than 4ft of earth cover depth to grade. We tried to come up with a solution yesterday afternoon in the field but nothing that could be approvable.

In addition, during the site meetings, Mr. Nawaz spoke about a proposed addition of approximately 2200ft² coming off the back part of the house towards the existing SDA. He wanted me to adjust septic components in the field to accommodate this addition which to that I explained without floor plans, site plans, or a proposal, I could not make this work.

Please do not hesitate to call me with questions or concerns regarding this issue at hand. I am available through email and phone or if you would, we can set up a meeting at our office to discuss further.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS
Groundwater Mgmt. Sec. Supervisor
Well & Septic Program
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045
(o) 410-313-2645
(f) 410-313-2648



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

Wolf, Kevin

From: Peter Podolak <pete@lapodolak.com>
Sent: Sunday, July 15, 2018 5:25 PM
To: Wolf, Kevin; Bricker, Robert; Babar Nawaz
Subject: Re: 5313 Broadwater Lane

Kevin,

My client, Mr. Babar Nawaz, and I would like to meet with you or Robert and Mr. Mike Davis to discuss our options here. However, given the fact that time is of the essence in getting a new sewage disposal system installed for this facility, scheduling may not permit such a meeting, and it may be quicker to correspond via email or phone.

I have many questions regarding your regulations and requirements. I, for example, do not see any limitations regarding the depths of a deep trench system in your regulations. What is this maximum depth? Furthermore, I do not see any regulations regarding the four foot depth of cover requirement over septic tanks, and was hoping you can direct me to that ordinance. It is my understanding that the septic installer did, in fact, install load bearing tanks, in light of their installation depth.

In trying to understand the options you outlined in your last email, wouldn't adding a pumping system to the OSDS plan still require reconstruction of the plumbing in the house and an ejector pump?

Per my previous email, the currently planned building renovations are to expand the Assisted Living Facility to 8 beds. In designing the OSDS plan originally, we considered a future expansion of up to 16 beds, and used a flow rate of 1700 gallons per day for design purposes.

I believe that we can now redesign the originally designed deep trench system to meet the 800 gpd flowrate, that is required by the current renovation plan, and still maintain gravity flow to the system and without lowering the deep trench system any more than what is currently proposed.

I will contact you to discuss this in greater detail.

Pete Podolak



Leon A. Podolak & Associates, LLC
Surveying / Civil Engineering

147 E. Main St PO Box 266
Westminster, MD 21157
(410) 848-2229 (410) 876-1226
FAX - (410) 848-2258
email- drawings@lapodolak.com

On Fri, Jul 13, 2018 at 11:20 AM, Wolf, Kevin <KWolf@howardcountymd.gov> wrote:

Williams, Jeffrey

From: Williams, Jeffrey
Sent: Wednesday, July 18, 2018 2:37 PM
To: 'Peter Podolak'
Cc: Davis, Michael J; Babar Nawaz
Subject: RE: 5313 Broadwater Lane

That would be theoretically possible. I can think of a dozen reasons why it could end up not working. You would have to start with a proposed grading plan to see what you would need to do to get that soil off without disturbing the SDA, leaving the tank in a swale, or directing drainage to the SDA. After that, there would be all the different ways it could go wrong, e.g. failed percs, different perc rates, etc. This would also be a course of action that would probably take a month or more to complete.

From: Peter Podolak [<mailto:pete@lapodolak.com>]
Sent: Wednesday, July 18, 2018 11:53 AM
To: Williams, Jeffrey
Cc: Davis, Michael J; Babar Nawaz
Subject: Re: 5313 Broadwater Lane

Thanks Jeff....we're exploring all options....and I wanted to be sure I asked this question.

Another consideration would be to do additional percolation tests and shift the SDA down hill....to allow for the grading over the ex septic tanks and gravity flow from the basement. I'm assuming we would then need to revise the Percolation Certification plan. Would there be any other issues that you foresee in pursuing this course of action? Please advise.

Thank you for your help,

Pete

On Wed, Jul 18, 2018 at 10:26 AM, Williams, Jeffrey <jewilliams@howardcountymd.gov> wrote:

You can't grade over the sewage disposal area either by adding fill or cutting away for a variety of reasons. It is possible to adjust grading over a tank to get the desired amount of cover, but I'm not sure you'll be able to do that here with the proximity to the SDA that can't be graded without ending up with the tank in a graded swale of some sort, or creating excess drainage onto the SDA, which is not allowed.

From: Peter Podolak [<mailto:pete@lapodolak.com>]
Sent: Tuesday, July 17, 2018 9:28 PM
To: Williams, Jeffrey; Davis, Michael J; Babar Nawaz
Subject: 5313 Broadwater Lane

Gentlemen,

First and foremost I would like to thank you for taking the time to meet to discuss this project with me and my client.

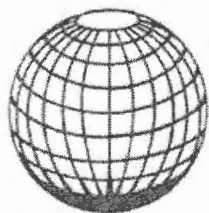
In considering your input, I realize that I forgot to ask one very important question:

Can we grade over the septic tank (cut of 3 feet) and effluent area (maximum cut of 2 feet) to remedy this situation?

I have attached a grading plan which depicts this grading. Given percolation testing results, I do not believe that we would be harming the effluent area with this minimal amount of cut. In an effort to mitigate costs for my client, I would like to know if this is an option. Please advise.

Thank you,

Peter L. Podolak, PE



Leon A. Podolak & Associates, LLC
Surveying / Civil Engineering
147 E. Main St PO Box 266
Westminster, MD 21157
(410) 848-2229 (410) 876-1226

FAX - (410) 848-2258

email- drawings@lapodolak.com

Approved 6/8/81

Stayer

P 31307

A Repair

PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

6/8/81
HOWARD COUNTY

05-370019

ELLICOTT CITY

DISTRICT 5th

DATE 4/7/81

INDEXED

Jack Ryock

IS PERMITTED TO INSTALL ALTER X

ADDRESS 13775 Triadelphia Road, Glenelg, Md. 21737 PHONE 988-9270

SUBDIVISION _____ ROAD 5313 Broadwater Lane LOT _____

PROPERTY OWNER Robert Tucker

ADDRESS 5313 Broadwater Lane, Clarksville, Md. 21029 Phone: 854-0117

SPECIFICATIONS

- SEPTIC TANK CAPACITY _____ GALLONS
- DRAIN FIELD _____ DEPTH _____ FEET, BOTTOM AREA _____ SQ. FT.
- DEEP TRENCH _____ DEPTH _____ FEET, BOTTOM AREA _____ SQ. FT.
- SEEPAGE PITS _____ ABSORBENT SIDE-WALL AREA _____ SQ. FT.
- INLET PIPE _____ FT. BELOW ORIGINAL GRADE. MAXIMUM DEPTH _____ FT. BELOW ORIGINAL GRADE
- EFFECTIVE DEPTH AT _____ FT. BELOW ORIGINAL GRADE.
- LOCATE DISPOSAL AREA _____ FT. FROM _____ LOT LINE AND _____ FT. FROM _____ LOT LINE AS SEEN WHEN FACING LOT FROM

REPAIR - Call for an appointment when ground is opened up and Sanitarian will

recommend the repair system. Trench, 70ft long, 12ft deep.

Inlet 4ft below org. grade. 8ft of stone.

5ft buffer from dry well to trench

PLANS APPROVED BY Palmer F. Wine DATE 4/6/81

COVER NO WORK UNTIL INSPECTED AND APPROVED.

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

NOTE: IF TRENCH IS USED CALL FOR INSPECTION BEFORE PLACING GRAVEL IN TRENCH.

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER.

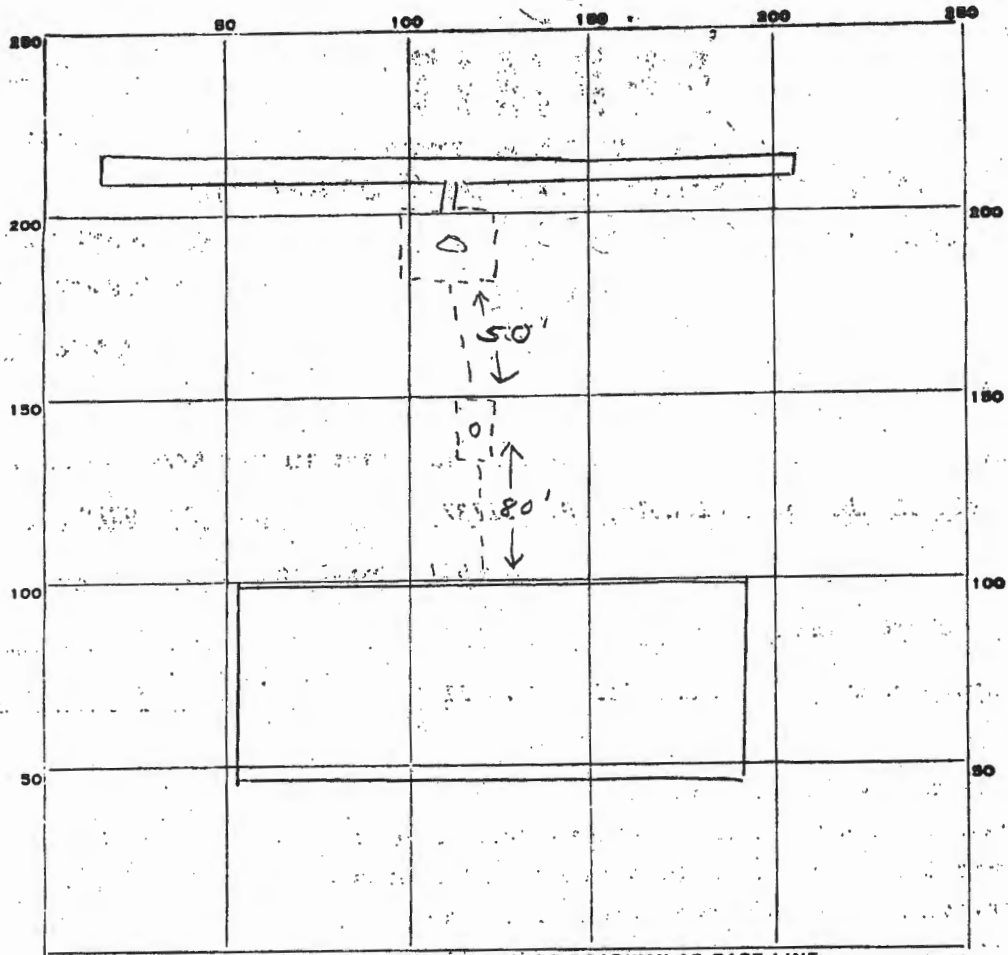
NOTE: ALL PIPE FROM HOUSE TO DISPOSAL AREA MUST BE CAST IRON.

PERMIT VOID AFTER THREE YEARS.

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 8 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA ACCEPTED.

***INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.**

31307



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.

RD

PERMIT CARD ✓

SEPTIC TANK, LEVEL _____ CLEANOUTS _____

DISTRIBUTION BOX, LEVEL _____

TILE FIELD, DEPTH 12 FT. TRENCH WIDTH 2 FT.

GRAVEL DEPTH 8 IN. TOTAL LENGTH 70 FT.

NUMBER OF TRENCHES 1 TOTAL BOTTOM AREA 560

SEEPAGE PITS, INSIDE DIAMETER _____ FT. DEPTH BELOW INLET _____ FT.

ABSORBENT AREA 560 SQ. FT.

REMARKS 6/8/81 OK to add stone in trench. jf
6/8/81 OK to cover all work. jf

DATE SYSTEM APPROVED _____ INSPECTOR _____

8/18/75
Ready

OFF 8-18-75

WDM

PERMIT

SEWAGE DISPOSAL SYSTEM

P 21895
A 17497

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

ELLICOTT CITY

INDEXED

DISTRICT 5th

DATE 7/29/75

Gary Weincoop

IS PERMITTED TO INSTALL ALTER

ADDRESS Mt. Airy, Maryland

PHONE _____

A SEWAGE DISPOSAL SYSTEM LOCATED AT _____

SUBDIVISION _____ ROAD 5313 Broadwater Lane LOT 8

PROPERTY OWNER Mary E. Tucker

ADDRESS 825 Bowie Road, Rockville, Maryland

Phone: 762-6257

(8) Mr. Tucker 282-2195

SPECIFICATIONS ⁴ 3 bedrooms

DRAIN FIELD _____ DEPTH _____ FEET. BOTTOM AREA _____ SQ. FT.

SEEPAGE PITS _____ ABSORBENT SIDE-WALL AREA _____ SQ. FT.

SEPTIC TANK CAPACITY ¹²⁵⁰ 1000 GALLONS

FOR GARBAGE GRINDER, INCREASE DISPOSAL AREA 22% & TANK CAPACITY 50%.

OTHER ~~DRY WELL - 300~~ ⁴⁰⁰ sq. ft. sidewall area. Place the dry well inlet 3 1/2 ft. below grade and the dry well bottom 11 1/2 ft. below grade. Place the dry well ~~300~~ ³⁰⁰ ft. from the lot line which is ~~975~~ ⁹⁷⁵ 73 ft. long and runs ~~N73~~ ^{N73} degrees 21 ft. 32 inches W and ~~25~~ ²⁵ ft. from the left side of the lot as seen when facing the lot from the right-of-way. *Changes Ok - 7-30-75 WDM*

NOTE: ALL PIPE FROM HOUSE TO DISPOSAL AREA MUST BE CAST IRON.

PERMIT VOID AFTER THREE YEARS.

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA ACCEPTED.

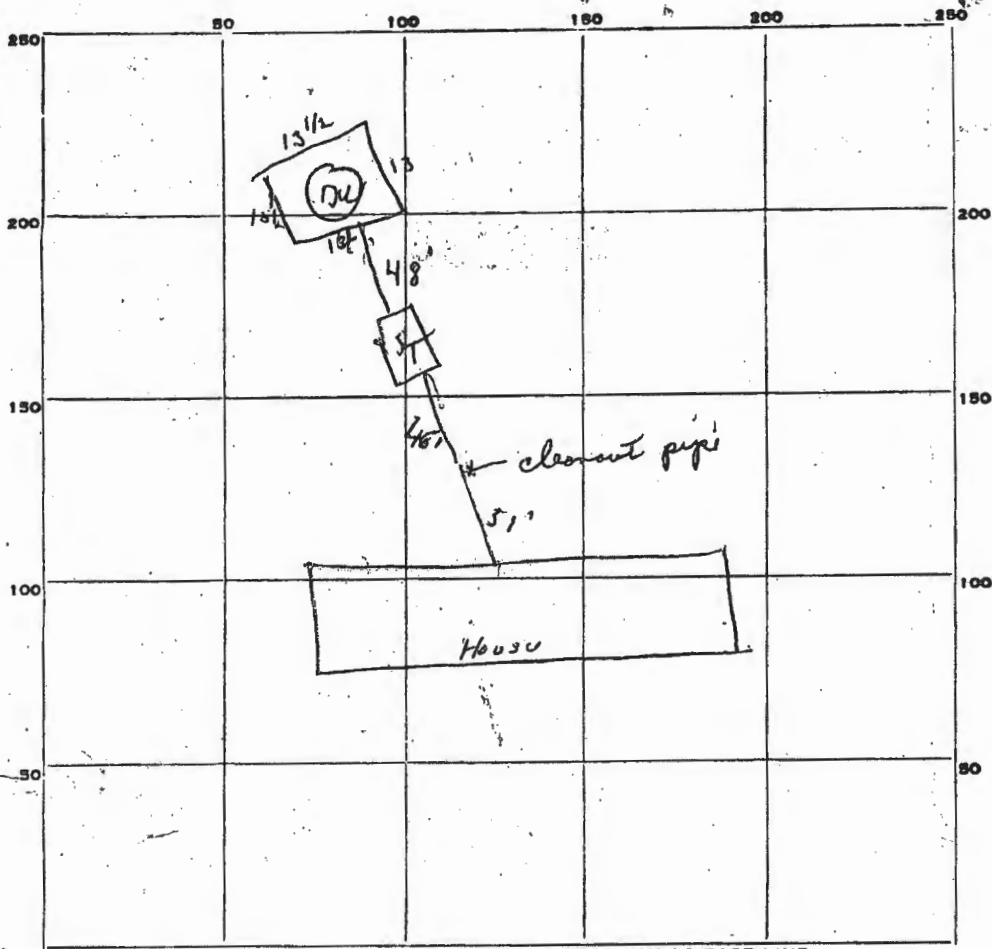
PLANS APPROVED BY Raymond Hodges

DATE 11/13/72

FILL SEPTIC TANK AND DISTRIBUTION BOX WITH WATER BEFORE CALLING FOR AN INSPECTION. COVER NO WORK UNTIL INSPECTED AND APPROVED.

NEITHER THE HOWARD COUNTY COMMISSIONERS NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

A 17497



INDICATE NORTH: - NAME ADJOINING ROADWAY AS BASE LINE.

$$\begin{array}{r}
 13' \\
 13' \\
 13' \\
 14' \\
 \hline
 3 \times 1 \\
 7.25' \\
 54' \\
 \hline
 2900 \\
 3025 \\
 \hline
 401.50 \\
 391
 \end{array}$$

PERMIT CARD _____

SEPTIC TANK, LEVEL OK

CLEANOUTS OK / man hole in trench

DISTRIBUTION BOX, LEVEL _____

TILE FIELD, DEPTH _____ FT. TRENCH WIDTH _____ FT.

GRAVEL DEPTH _____ IN. TOTAL LENGTH _____ FT.

NUMBER OF TRENCHES _____ TOTAL BOTTOM AREA _____

SEEPAGE PITS, INSIDE DIAMETER 54 FT. DEPTH BELOW INLET 7 1/4 FT.

ABSORBENT AREA 391.5 SQ. FT.

REMARKS _____

DATE SYSTEM APPROVED

8-19-78

INSPECTOR

[Signature]

APPLICATION

SEWAGE DISPOSAL TESTING

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

A 17497

P _____

ELLICOTT CITY

DISTRICT 5th

DATE 9/28/72

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TESTS IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER Edward Talbott, Trustee

ADDRESS 11 Park Avenue, Gaithersburg, Md. 20760 PHONE 926-3007

PROPERTY LOCATION:

SUBDIVISION _____

LOT NO. _____

ROAD AND DESCRIPTION The S.E. corner of Linden Chapel Road and Broadwater ~~Road~~
Road.

OCCUPANT _____

PHONE _____

PERSON TO CONSTRUCT SYSTEM _____

ADDRESS _____

PHONE _____

SIZE OF LOT 5.000 acres

TYPE BLDG. 3 or 4 bedrooms

NUMBER OF BEDROOMS

IF NOT SINGLE RESIDENCE DESCRIBE _____

SIGNATURE OF APPLICANT Richard Hallowell, Agent - 286-2988

APPROVED BY _____

FOR _____

(KIND OF SYSTEM)

DATE _____

REJECTED BY _____

FOR _____

(KIND OF SYSTEM)

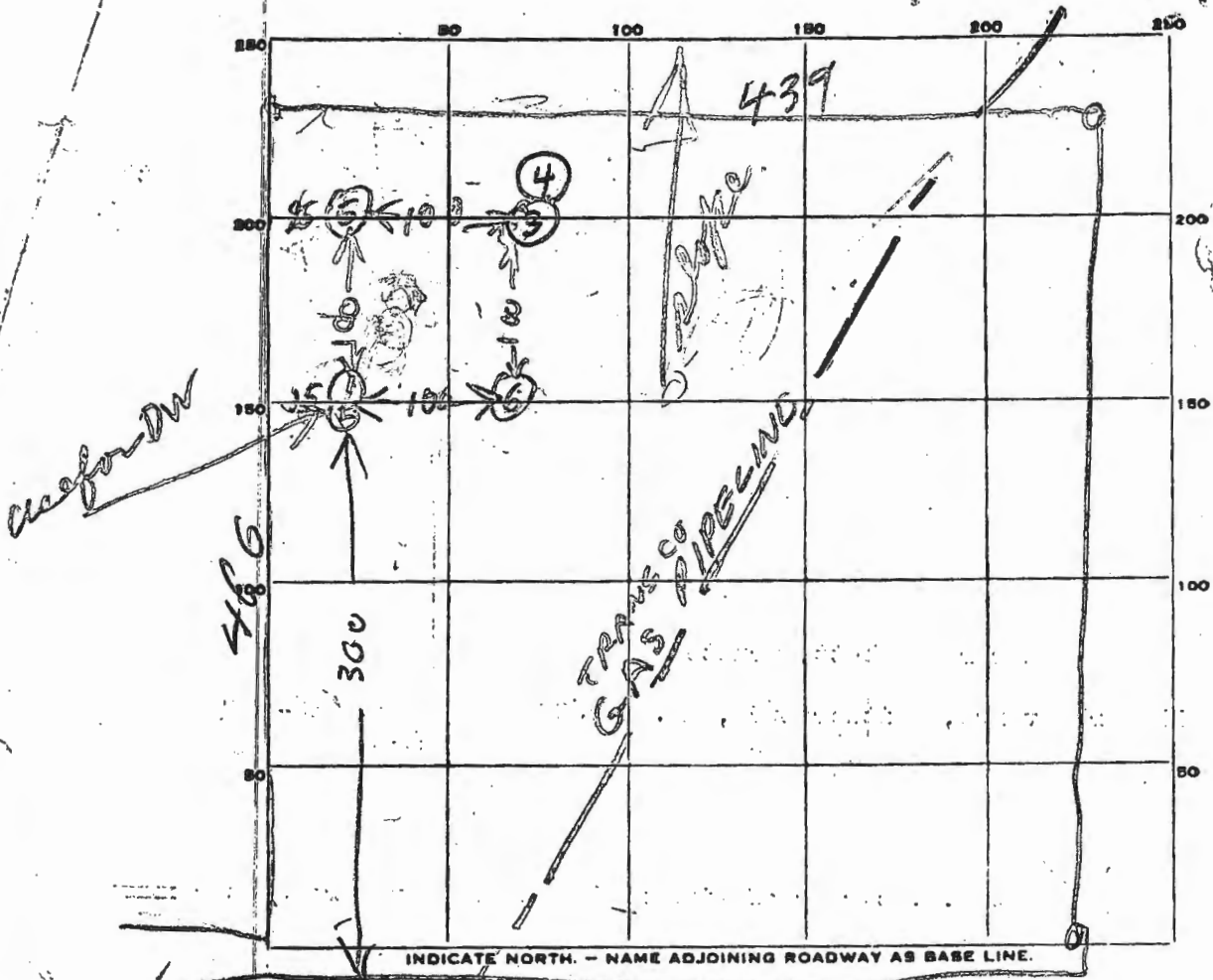
DATE _____

HOLD PENDING FURTHER TESTS _____

DATE _____

REASONS FOR REJECTION OR HOLDING _____

THIS IS NOT A PERMIT



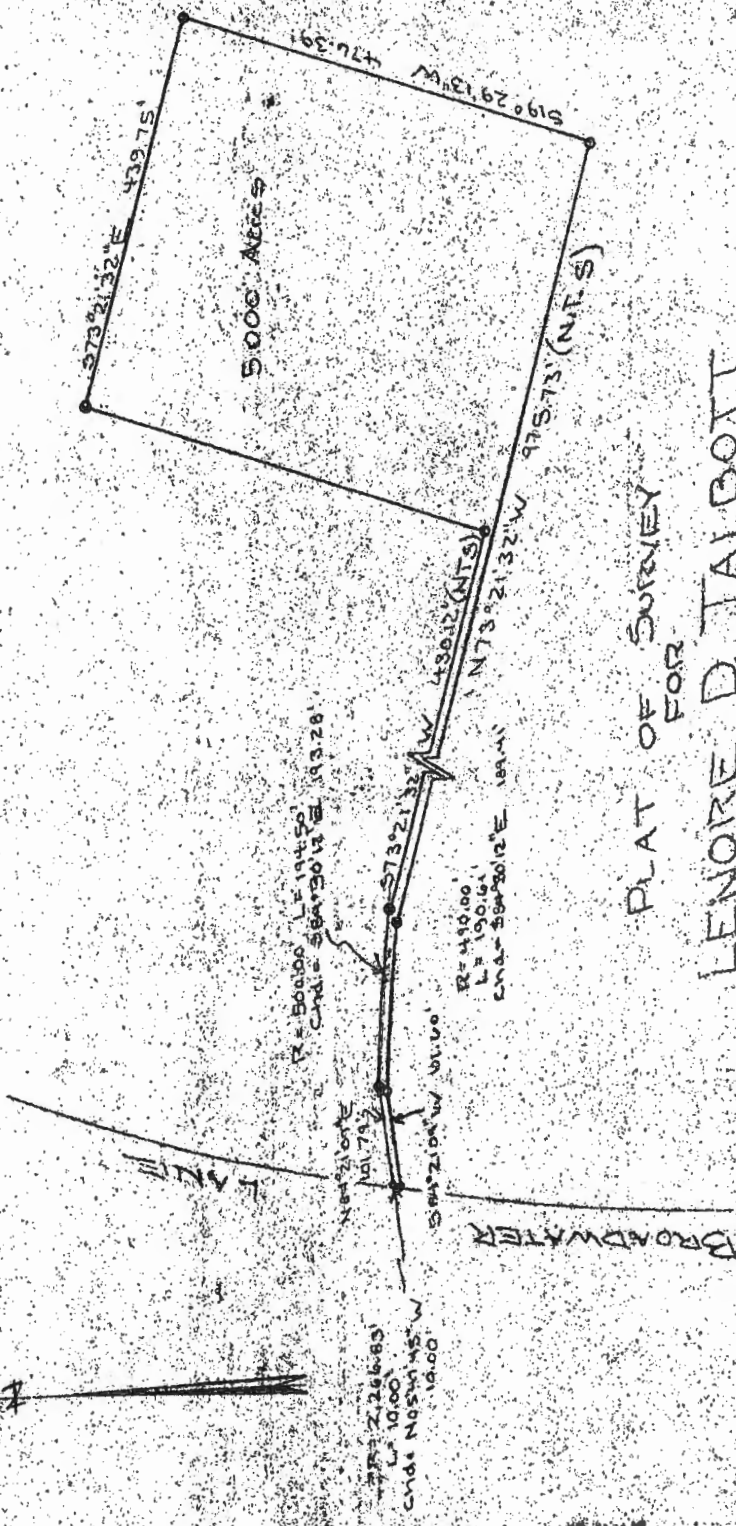
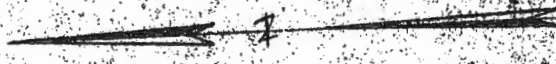
DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11/1/22	1	3 1/2	1220	1221	1221	1223	1
	2	11 1/2	1221	1222	1224	1223	1
	3	3 1/2	1225	1226	1226	1227	1
	4	17 1/2	1225	1226	1226	1229	3
	5	10	ALL SAND		Dry		
	6	10	TOP 3 FT CLAY BOT 7 FT SAND		Dry		

SOIL AUGER FINDING

TESTED BY

B. Hodger

REMARKS



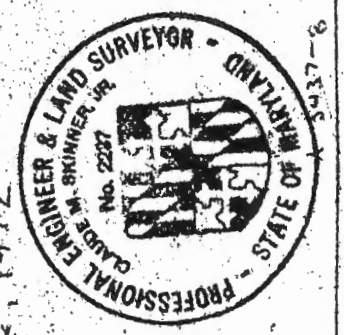
PLAT OF SURVEY
FOR

LENORE D. TALBOTT
FIFTH ELECTION DISTRICT OF HOWARD COUNTY,
CLARKSVILLE, MARYLAND

SCALE: 1 IN. = 200 FT.

SEPT. 6, 1972

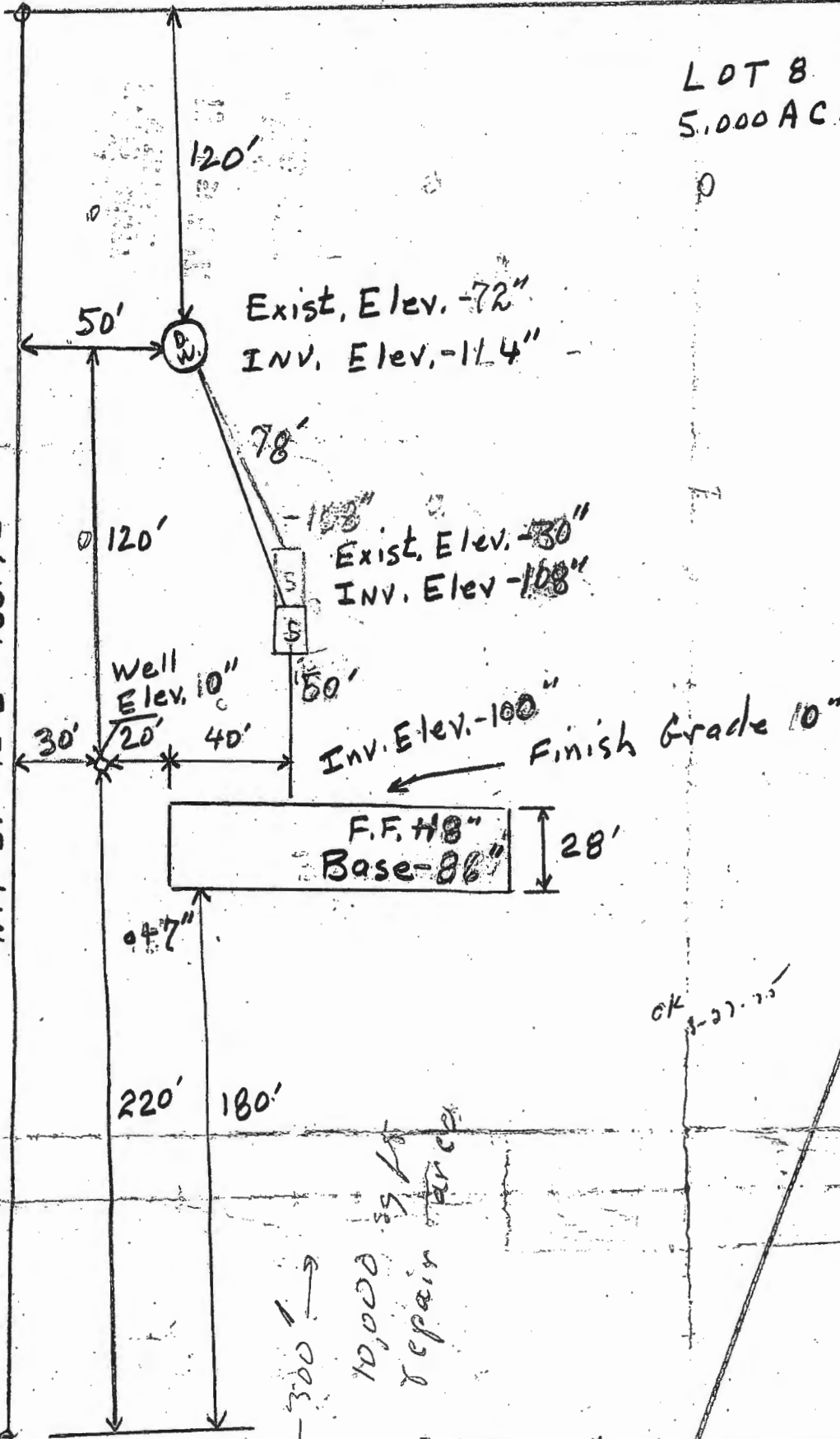
Claude M. Skinner, Jr.
Claude M. Skinner, Jr.
Reg. Professional Engineer's
Land Surveyor No. 2237



Transcontinental Gas

439.75'

LOT 8
5.000 ACRES



N19° 37' 42" E 466.42'

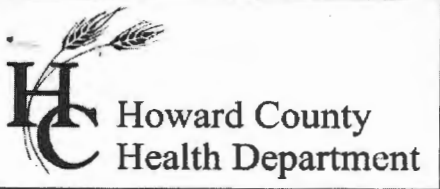
220' 180'

10,000 repair brace

OK 1-27-75

530.12'

975.73'



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: 7/6/18

ONSITE SEWAGE DISPOSAL SYSTEM

P 201451

APPROVAL DATE: _____

PERMIT:

REPAIR

A _____

PROPERTY ADDRESS: 5313 Broadwater Lane

SUBDIVISION: _____ LOT: P/8 TAX ID: _____

CONTRACTOR: Freedom Septic EMAIL: _____

CONTRACTOR ADDRESS: 2809 Liberty Road, Sykesville, MD 21784 PHONE: 410-984-6863

PROPERTY OWNER: Virajdev Naik and Priti Raman Desai EMAIL: _____

OWNER ADDRESS: 5185 Sheppard Lane, Ellicott City, MD 21042 PHONE: 301-213-6529

SEPTIC TANK SIZE (GALLONS): _____ PUMP CHAMBER CAPACITY (GALLONS): _____ PUMP SIZE: _____

NUMBER OF BEDROOMS: _____ HOUSE SQ. FT. _____ APPLICATION RATE: _____

DISTRIBUTION SYSTEM: GRAVITY FED LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: _____	INLET DEPTH: _____
	TRENCH WIDTH: _____	MAXIMUM BOTTOM DEPTH: _____
	MINIMUM SPACE BETWEEN TRENCHES: _____	EFFECTIVE AREA BEGINNING DEPTH: _____
LOCATION:	TO BE STAKED BY SANITARIAN DURING PRE-CONSTRUCTION INSPECTION.	
NOTES:	_____	

ISSUED BY: _____ ISSUE DATE: _____ EXPIRATION DATE: 7-6-18

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 SEPTIC TANKS REQUIRED

NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADE 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: THE HCHD DOES NOT WARRANT 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: 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

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH INLET BOTTOM

NUMBER OF TRENCHES _____

TOTAL LENGTH _____

ABSORPTION AREA _____

DISTRIBUTION BOX LEVEL _____

DISTRIBUTION BOX BAFFLE _____

DISTRIBUTION BOX PORT _____

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL _____

MANUFACTURER _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH _____

BAFFLES _____

BAFFLE FILTER _____

MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED _____

DATE ON LID _____

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:

INSTALLATION:

FINAL INSPECTOR _____, DATE OF APPROVAL _____