

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: 7/24/23 **ONSITE SEWAGE DISPOSAL SYSTEM** P 574964

APPROVAL DATE: 8/3/23 **PERMIT: NEW CONSTRUCTION** A _____

PROPERTY ADDRESS: 1872 Woodbine Road

SUBDIVISION: Browning Property LOT: 1 TAX ID: _____

CONTRACTOR: Bennett Excavation EMAIL: _____

CONTRACTOR ADDRESS: 28650 Clarksburg Road, Damascus MD 20872 PHONE: 240-307-0512

PROPERTY OWNER: Charles and Patricia Browning EMAIL: _____

OWNER ADDRESS: 2308 Woodbine Road, Woodbine, MD 21797 PHONE: 301-252-6865

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

PUMP MODEL: N/A PUMP SIZE N/A PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>102.50</u>	INLET DEPTH: <u>4</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 @ 51.25'	

ISSUED BY: Zack Sitast ISSUE DATE: 7/24/23 EXPIRATION DATE: 7/24/24

- 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 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

See as built
on separate sheet

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
<u>3'</u>	<u>4'</u>	<u>8'</u>
NUMBER OF TRENCHES		<u>2</u>
TOTAL LENGTH		<u>106'</u>
ABSORPTION AREA		<u>318 sqft + side wall</u>
DISTRIBUTION BOX LEVEL		<u>yes</u>
DISTRIBUTION BOX BAFFLE		<u>yes</u>
DISTRIBUTION BOX PORT		<u>yes</u>

SEPTIC TANK DATA ^{13' x 6.5'}

SEPTIC TANK 1 LEVEL	<u>yes</u>
MANUFACTURER	<u>Babylon</u>
CAPACITY	<u>2000</u> GAL
SEAM LOC	<u>top</u>
TANK LID DEPTH	<u>3'</u>
BAFFLES	<u>6" front / 4" back</u>
BAFFLE FILTER	<u>-</u>
MANHOLE LOC	<u>front / back</u>
6" PORT LOC	<u>-</u>
WATERTIGHT TEST	<u>-</u>
SLOTTED	<u>yes</u>
DATE ON LID	<u>6/20/23</u>
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:

7/31/23 - met homeowner's contractor onsite, fcc staked ST, dbox & 2 trenches; contractor had sewer out of house exposed and we shot elevation. Sewer line will make fall to septic tank w/ no more than 3' cover on top of ST, there was some fill brought in to the SDA but could see where original grade was w/ grass patches. Shot 2 52' trenches on contour with the transit, SDA stakes were in place, ST to be delivered 8/1/23, ok to continue. (RM)

INSTALLATION:

8/1/23 - site inspection, contractor onsite, sewer line from house to septic tank installed w/ 2" fall & bedded in 57 stone, septic tank set on a level bed of 57 stone, replaced 4" baffle w/ 6" baffle on the front end of the tank, 4" baffle used on back end, ok to continue, ST had to be shift downgrade a bit into the SDA to make fall on the sewer line. SMC made under foundation. (RM) 8/2/23 - contractor working on first trench which is to spec (8' bottom, 4' inlet, 3' wide), obs port in place, stone ok, geotextile fabric in place, dbox set and level, used levelers for equal distribution, beginning of 2nd trench started, was able to level dbox because of it and contractor wanted to backfill, obs port on dbox, ok to backfill sewer line, ST, dbox - ok to continue. (RM) 8/3/23 - 1st & 2nd trench completed to specs, ok to backfill system. (RM)

FINAL INSPECTOR

R. Rappaport

DATE OF APPROVAL

8/3/23

Oswald, Hank

From: Oswald, Hank
Sent: Thursday, April 29, 2021 10:21 AM
To: Tony Fertitta (tonyf@fcc-eng.com)
Subject: Browning Property_1872 Woodbine Road_Lot 1

Hi Tony:

I reviewed the OSDS Plan for the Browning Property, Lot 1. There is a 28 % slope within 25 feet of the sewage disposal area. Perhaps the house site can be adjusted toward the well sites to accommodate the grading adjustment.

Let me know if you have any questions.

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

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

See below

From: Oswald, Hank <hoswald@howardcountymd.gov>

Sent: Tuesday, April 27, 2021 9:42 AM

To: Tony Fertitta <tonyf@fcc-eng.com>

Subject: OSDS Plan_1872 Woodbine Road

Hi Tony:

The following comments pertain to the review of the Browning Property Lot 1.

- 1.) Add new address to plan 1872 Woodbine Road. Address was added
- 2.) Relocate drywell (1B). It's within 25 feet of the SDA. Drywell was moved
- 3.) Raise septic tank. Tank is more than 3 feet below grade. Grading was revised for tank depth to be 3'
- 4.) Raise trench invert (if possible) for better use and design of trench. Trench invert is at max depth. Trench depth was set at 4' to allow basement gravity.
- 5.) Ensure trench spacing is being met for all systems. Trench spacing is at 11' for initial system perc spec.

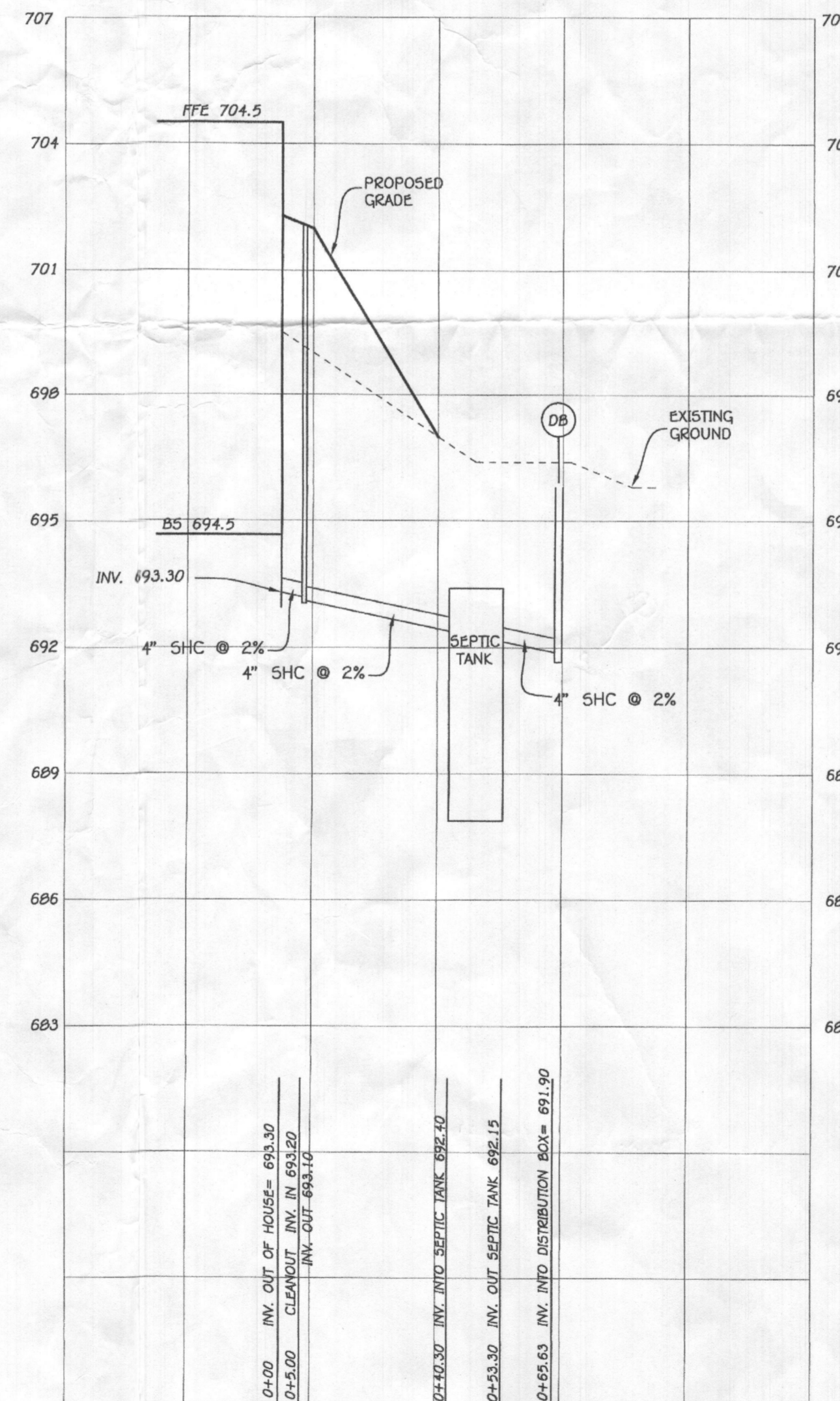
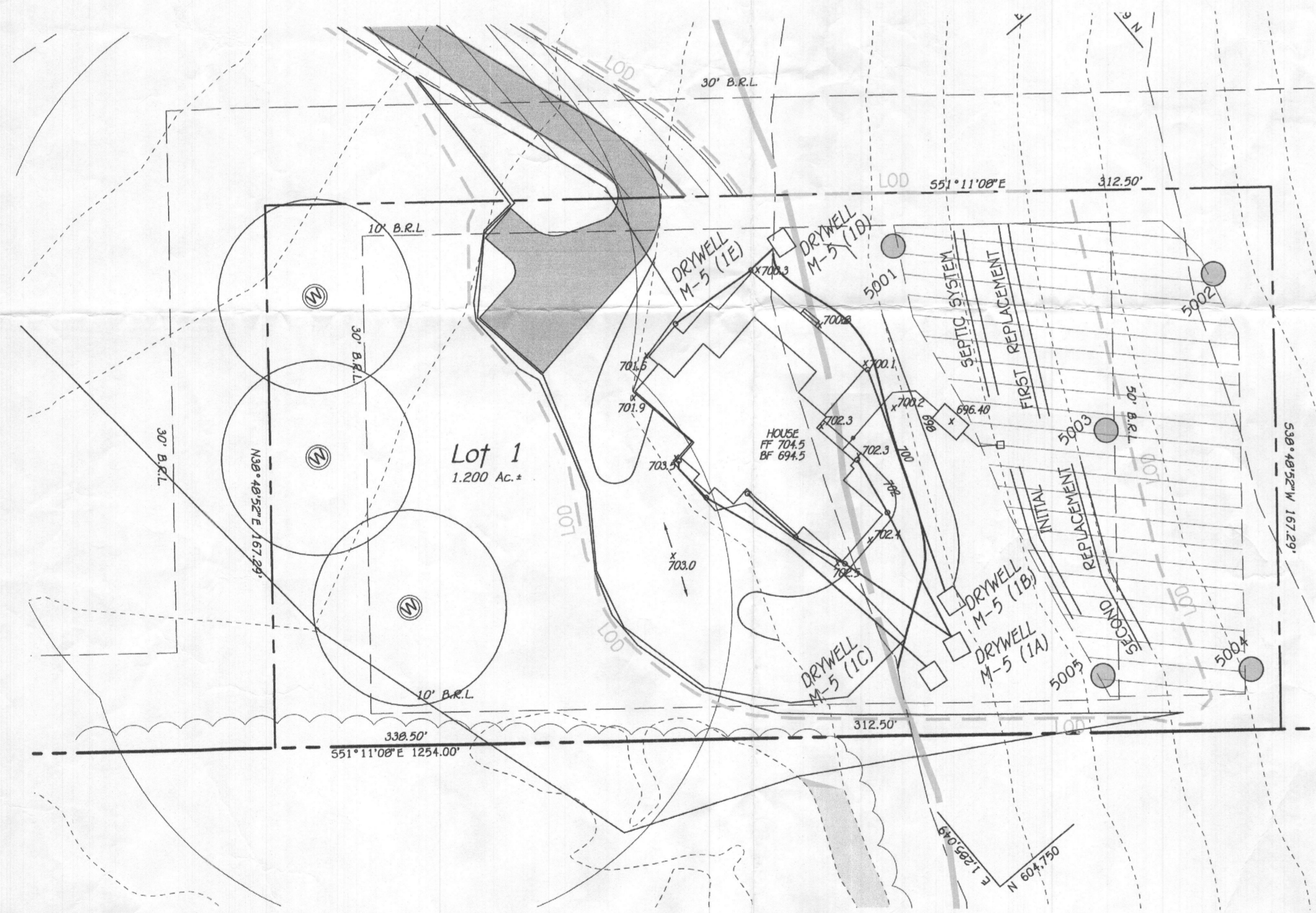
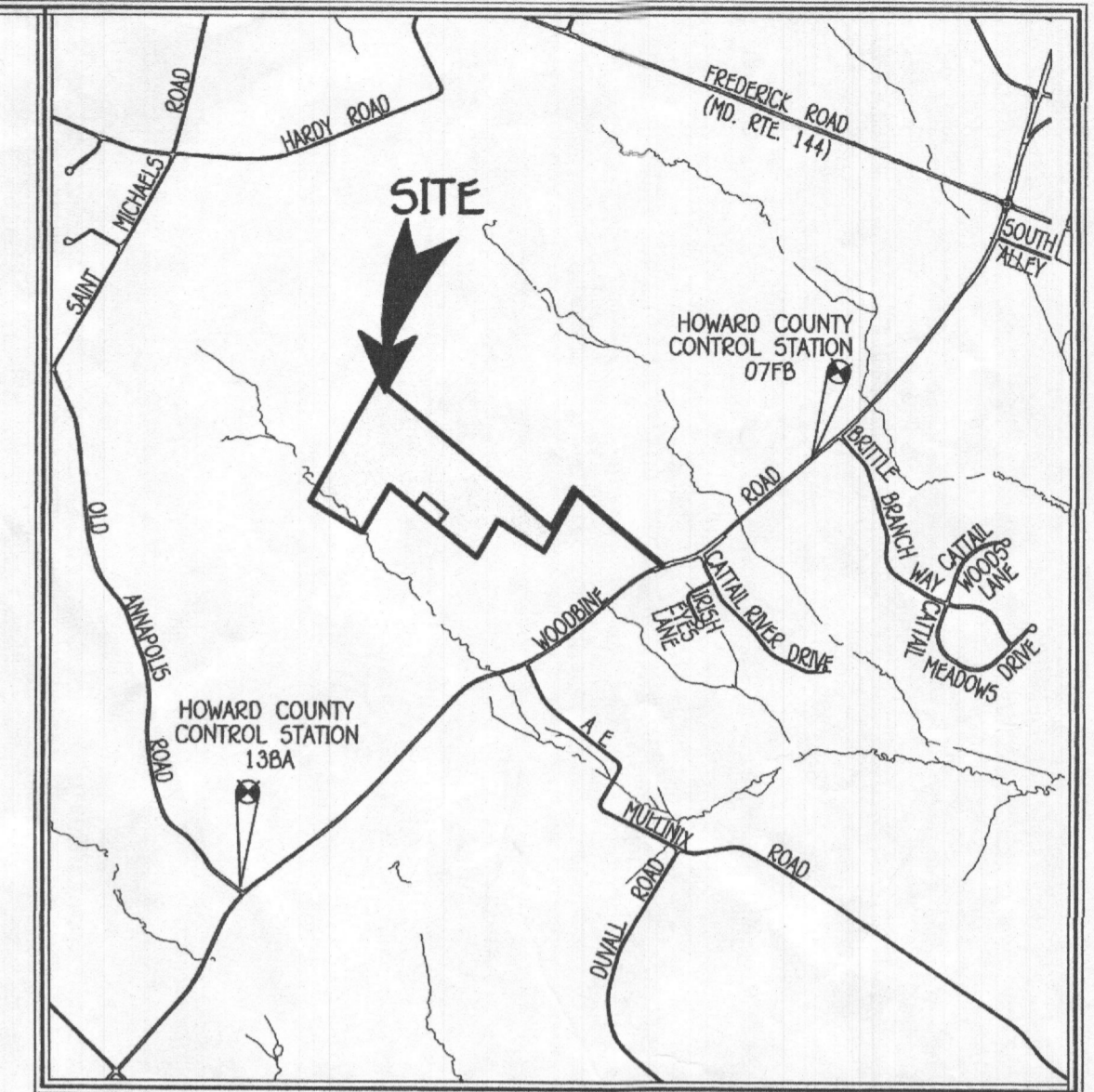
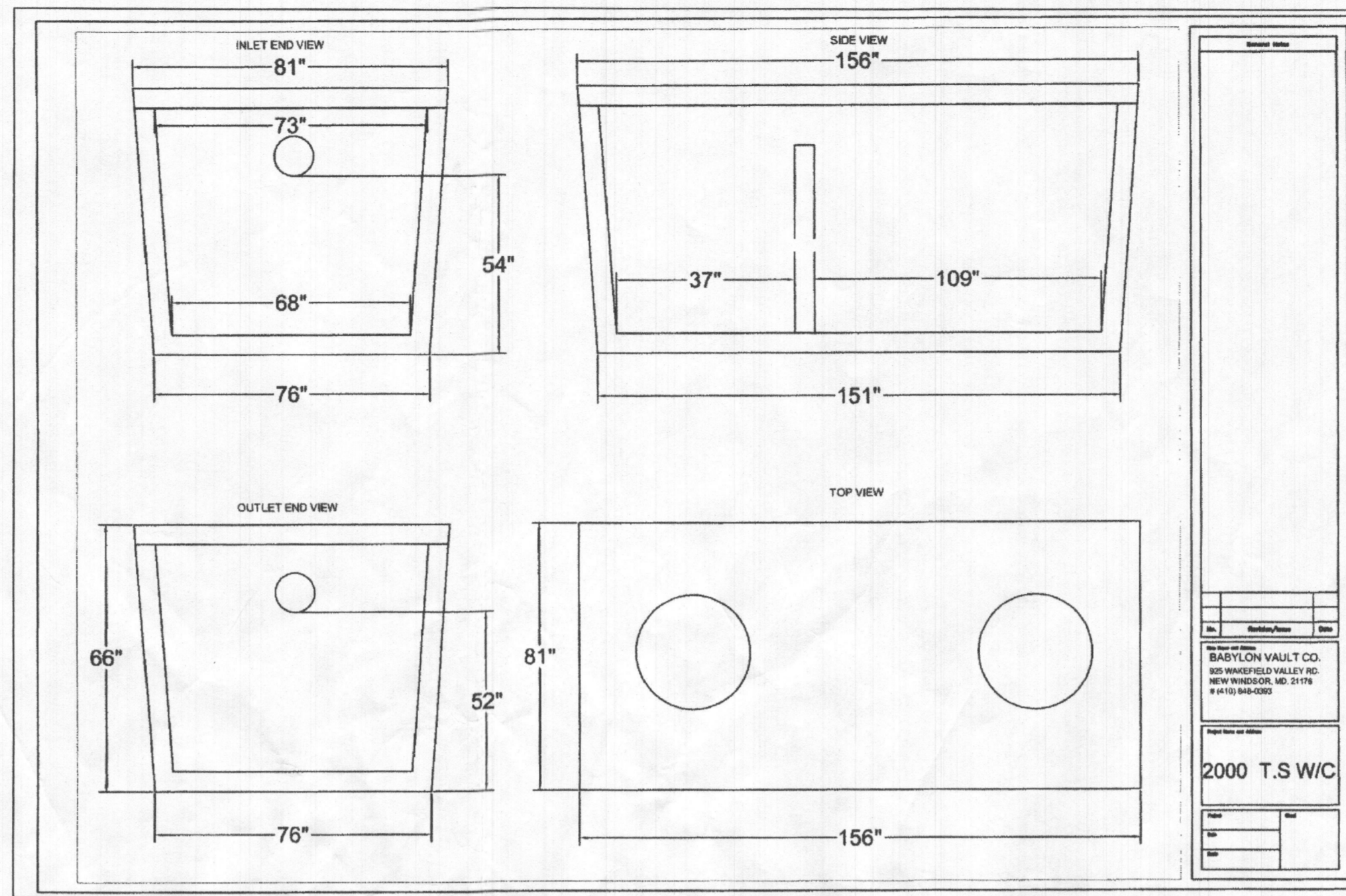
Let me know if you have any questions.

Thanks,

Hank

Hank Oswald
Howard County Health Department
Well & Septic Program

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 HO-18-0012 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.

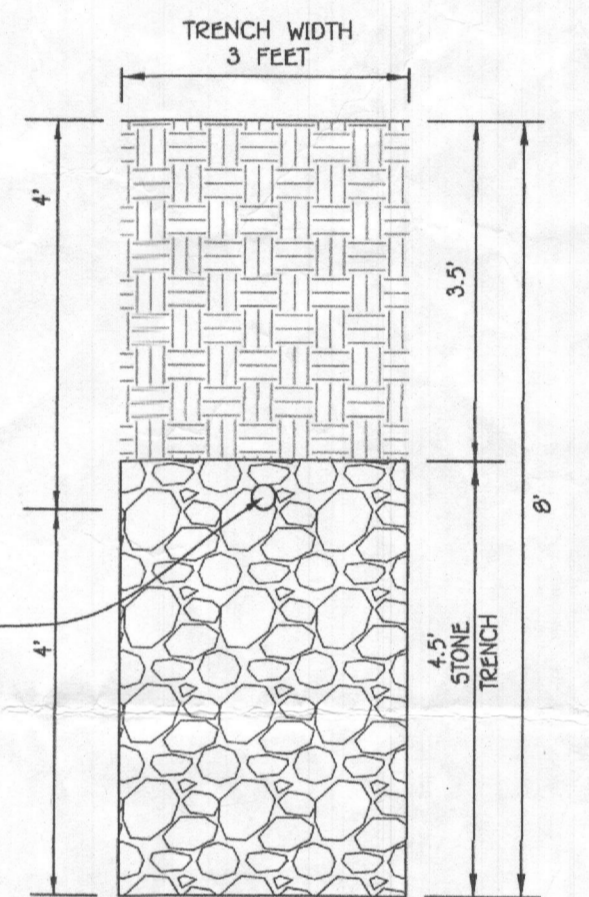


FFE 704.5
 BSE 694.5
 INV. OUT OF HOUSE = 693.30
 PROP. GROUND AT CLEANOUT #1 = 702.3
 INV. INTO CLEANOUT = 693.20
 INV. OUT OF CLEANOUT = 693.10
 EX. GROUND AT SEPTIC TANK = 696.40
 TOP OF SEPTIC TANK = 693.40
 INV. INTO SEPTIC TANK = 692.40
 INV. OUT OF SEPTIC TANK = 692.15
 EX. GROUND AT DISTRIBUTION BOX = 695.80
 INV. INTO DISTRIBUTION BOX = 691.90
 INV. OUT OF DISTRIBUTION BOX = 691.80

TRENCH DATA:

TRENCH 1:
 EX. GROUND ABOVE = 695.8
 INV. IN = 691.80
 BOTTOM TRENCH = 687.80

TRENCH 2:
 EX. GROUND ABOVE = 695.8
 INV. IN = 691.80
 BOTTOM TRENCH = 687.80



INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS)
 LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 GPD
 APPLICATION RATE = 0.8
 EFFECTIVE SIDEWALL BEGINS AT 4 FEET
 TRENCH DEPTH (D) = 3 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 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+(2x4)) = 0.41
 TRENCH LENGTH = 250.00 SF x 0.41 = 102.50 FEET (USE 2 TRENCHES AT 51.25 L.F.)
 TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 11'

2ND REPLACEMENT SYSTEM

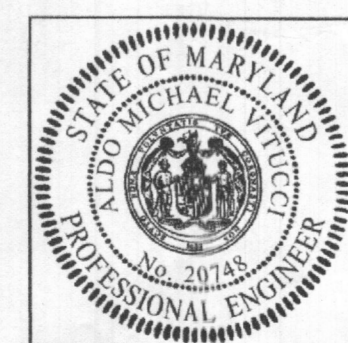
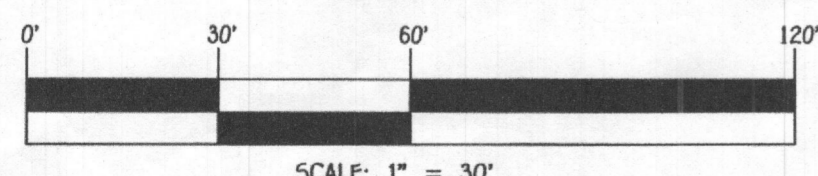
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS)
 LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 GPD
 APPLICATION RATE = 1.2
 EFFECTIVE SIDEWALL BEGINS AT 3 FEET
 TRENCH DEPTH (D) = 5 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 3 FEET
 SF OF DRAINFIELD = 600 GPD / 1.2 = 500 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x5)) = 0.357
 TRENCH LENGTH = 166.67 SF x 0.357 = 59.50 FEET
 TRENCH SPACING = 2D+W = ((2x5) + 3) = 13' USE 13'

1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS)
 LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 GPD
 APPLICATION RATE = 1.2
 EFFECTIVE SIDEWALL BEGINS AT 3 FEET
 TRENCH DEPTH (D) = 5 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 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+(2x5)) = 0.357
 TRENCH LENGTH = 166.67 SF x 0.357 = 59.50 FEET
 TRENCH SPACING = 2D+W = ((2x5) + 3) = 13' USE 13'

Approved Septic System Plan
 Howard County Health Department
 Hank Ouellet 5/12/21
 Signature Date

PLAN
1" = 30'



PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20748, EXPIRATION DATE: 02/22/2023.

Signature of Professional Engineer: *Michael J. Vitorei*
 DATE: 4/30/21

SEPTIC PROFILE
SCALE: 1" = 30'

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 10272 BALTIMORE NATIONAL PIKE
 ELKOTT CITY, MARYLAND 21042
 (410) 461-2895

OWNER / DEVELOPER
 Charles Hanford Browning, Jr.
 And
 Patricia Lee Browning
 1874 Woodbine Road
 Woodbine, Maryland 21797
 Ph 301-252-6864

SEPTIC SYSTEM
 INSTALLATION SITE PLAN
 BROWNING PROPERTY
 LOT 1

1872 WOODBINE ROAD
 ZONED RC-DEO

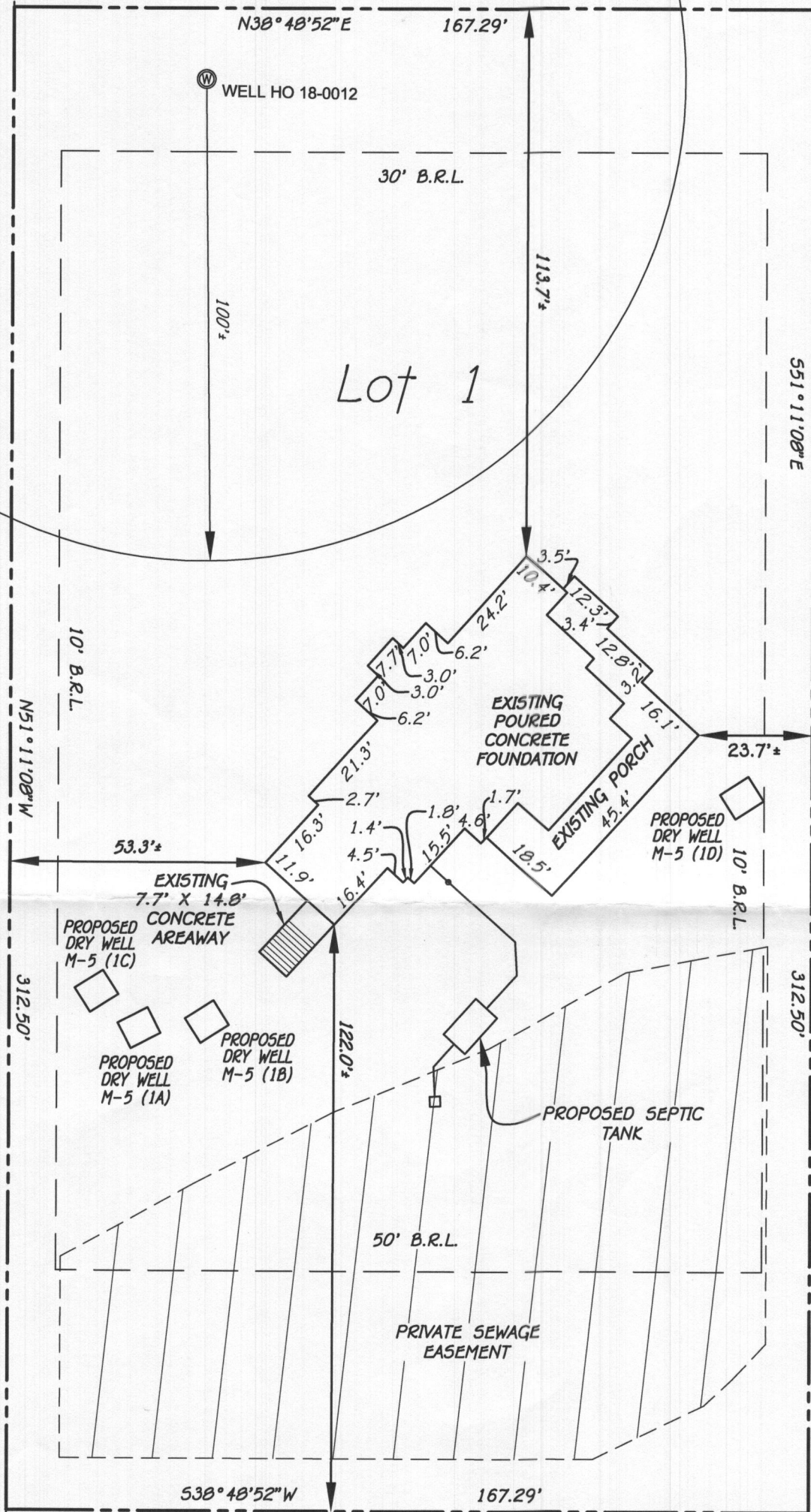
TAX MAP No. 7 GRID No. 15 PARCEL No. 50B

FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN DATE: APRIL 28, 2021

SHEET 1 OF 1

SCALE: 1"=30'
 MD STATE PLANE NAD83/NAV88



Private Use-In-Common Access
 And Stormwater Management
 Driveway Easement For The Use
 And Benefit Of Lot 1.

Approved,
 JB 7/25/23

*NOTE: THE EXISTING LOCATION OF THE AREAWAY
 DOES NOT CONFLICT WITH THE PROPOSED LOCATION
 OF ANY DRYWELLS.
 PROPOSED DRYWELLS DO NOT CONFLICT WITH THE
 PROPOSED SEPTIC SYSTEM

LOT 1 ADDRESS: #1072 WOODBINE ROAD
 FIRST FLOOR ELEVATION = 705.3±
 BSMT FLOOR ELEVATION = 694.5±
 TOP OF FOUNDATION ELEVATION = 704.3±
 B.R.L. = BUILDING RESTRICTION LINE

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461 - 2055

Lot 1 Agricultural Preservation Subdivision Plat For The Browning Property

(Being A Subdivision Of Tax Map 7, Parcel 50B
 Liber 1774 At Folio 056)
 Tax Map: 7, Grid: 15, Parcel: 50B
 Fourth Election District - Howard County, Maryland

PLAN TO ACCOMPANY SEPTIC PERMIT

FOUNDATION LOCATION: 4/4/2022
 FINAL LOCATION: _____
 BOUNDARY SURVEY: _____

SCALE: 1"=30'
 DATE: 7/24/2023
 DRAWN BY: MD / WAS
 CHECKED BY: FM II
 PROJECT No.: 17022-3001