

**Bureau of Environmental Health**  
 8930 Stanford Boulevard, Columbia, MD 21045  
 Main: 410-313-2640 | Fax: 410-313-2648  
 TDD 410-313-2323 | Toll Free 1-866-313-6300  
[www.hchealth.org](http://www.hchealth.org)  
 Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 8-8-22 **ONSITE SEWAGE DISPOSAL SYSTEM** P 572128  
 APPROVAL DATE: 09/30/2022 **PERMIT: CONSTRUCTION** A \_\_\_\_\_  
 PROPERTY ADDRESS: 6050 BRICKER ROAD, DAYTON, MD 21036  
 SUBDIVISION: WILLOWSHIRE LOT: 21 TAX ID: 05-603009  
 CONTRACTOR: CHAVIS ENTERPRISES & SEPTIC SERVICES EMAIL: Ryan@chavisenterprisesllc.com  
 CONTRACTOR ADDRESS: 23 EAST ELLENDALE, BEL AIR, MD 21014 PHONE: (410)838-3007  
 PROPERTY OWNER: TOLL MID-ATLANTIC LP COMPANY, INC EMAIL: nbrandenburg@tollbrothers.com  
 OWNER ADDRESS: 250 GIBRALTER ROAD, HORSHAM, PA 19044 PHONE: (410)872-9165  
 SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Back River Pre-Cast, LLC  
 PUMP MODEL: N.A. PUMP SIZE N.A. PUMP TANK CAPACITY: N.A.

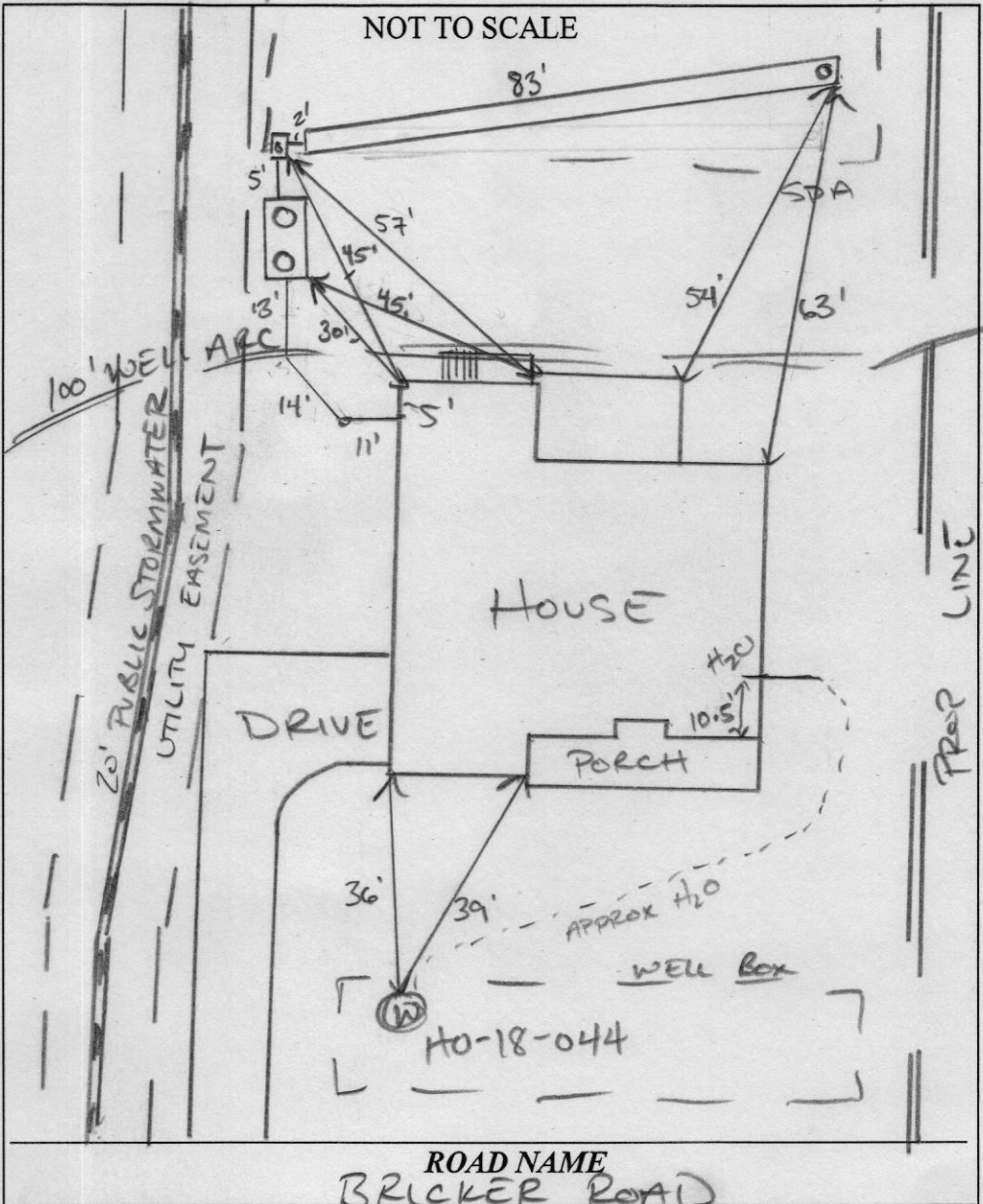
DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>83</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>n.a.</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	INSTALL TWO (2) CLEANOUTS IN SHC, AS ILLUSTRATED.	

ISSUED BY: R BRICKER ISSUE DATE: \_\_\_\_\_ EXPIRATION DATE: 8-8-23

- 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.**



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	2.5'	8'
NUMBER OF TRENCHES		1
TOTAL LENGTH		83 F
ABSORPTION AREA		249 SF + 3.5' SIDE WALL
DISTRIBUTION BOX LEVEL		-
DISTRIBUTION BOX BAFFLE		CONC.
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BACKHUS
CAPACITY	2000 GAL
SEAM LOC	TSP
TANK LID DEPTH	3'-1"
BAFFLES	YES
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	08/22/2022
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:**

9/27/22 - stakes for SDA, septic tank, dbox & trench in place, verified fall for sewer line w/ less than 3' cover on septic tank, laid out 1 trench @ 83', had to adjust a few trench stakes to make contour, ok to begin installation (R)

**INSTALLATION:**

09/29/2022 SHC, SI, TANK, INSTALLED. TB PUT IN BUT PROP COVER IS 3" low. 09/30/2022 TR COMPLETED. (P)

FINAL INSPECTOR

DATE OF APPROVAL

09/30/2022





**HOUSE OPTIONS:**

HOUSE TYPE: PARKHURST (MODERN FARMHOUSE)

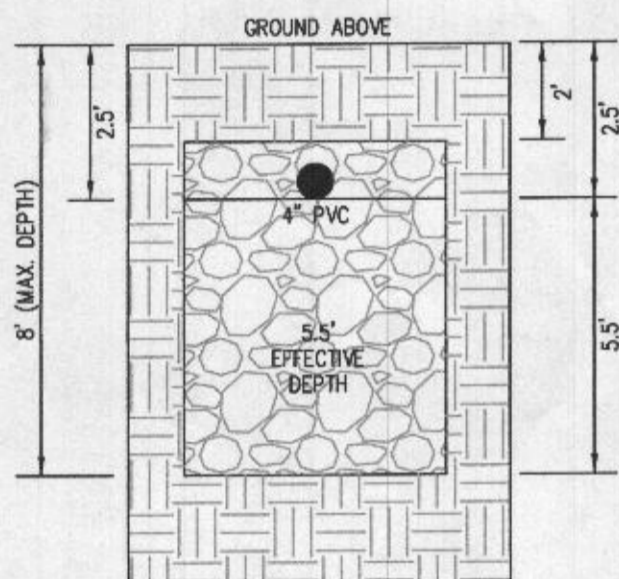
- TWO CAR SIDE ENTRY GARAGE
- DAYLIGHT BASEMENT
- WET BAR ROUGH-IN- LOWER LEVEL
- LUXURY OUTDOOR LIVING

- OPTION No. 012
- OPTION No. 018
- OPTION No. 048246
- OPTION No. 263165

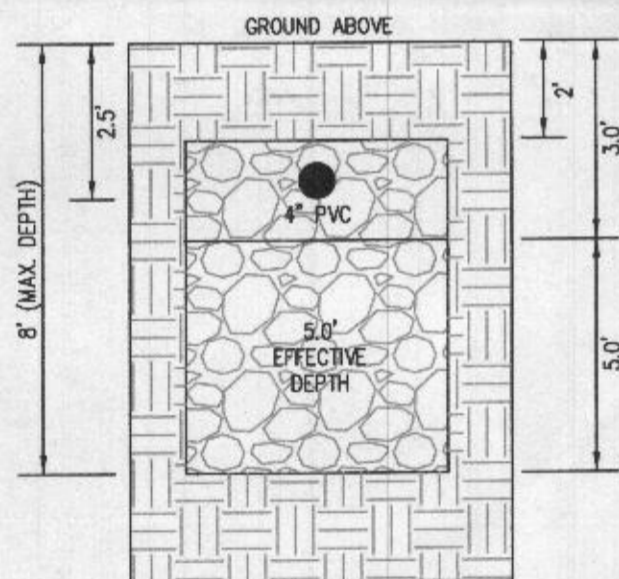
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/23.

**INITIAL TRENCH DATA**

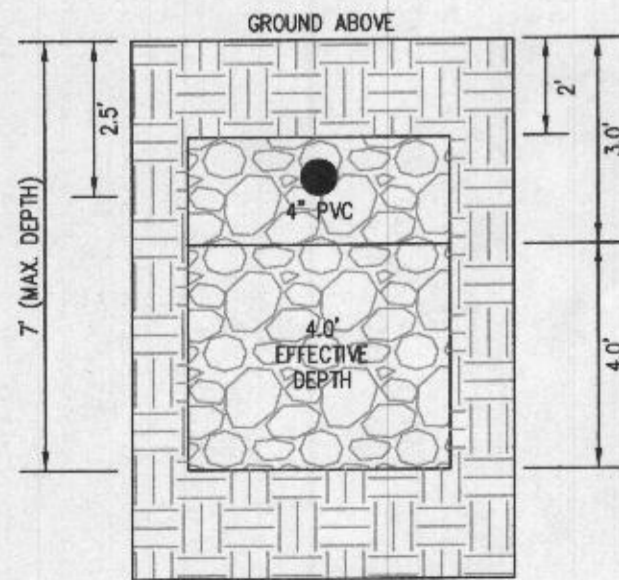
BOTTOM MAX. DEPTH (8')  
**TRENCH 1 (T1): 82.50 LF**  
 GROUND ABOVE = 496.80'  
 INV. IN = 494.30'  
 BOTTOM TRENCH = 488.80'



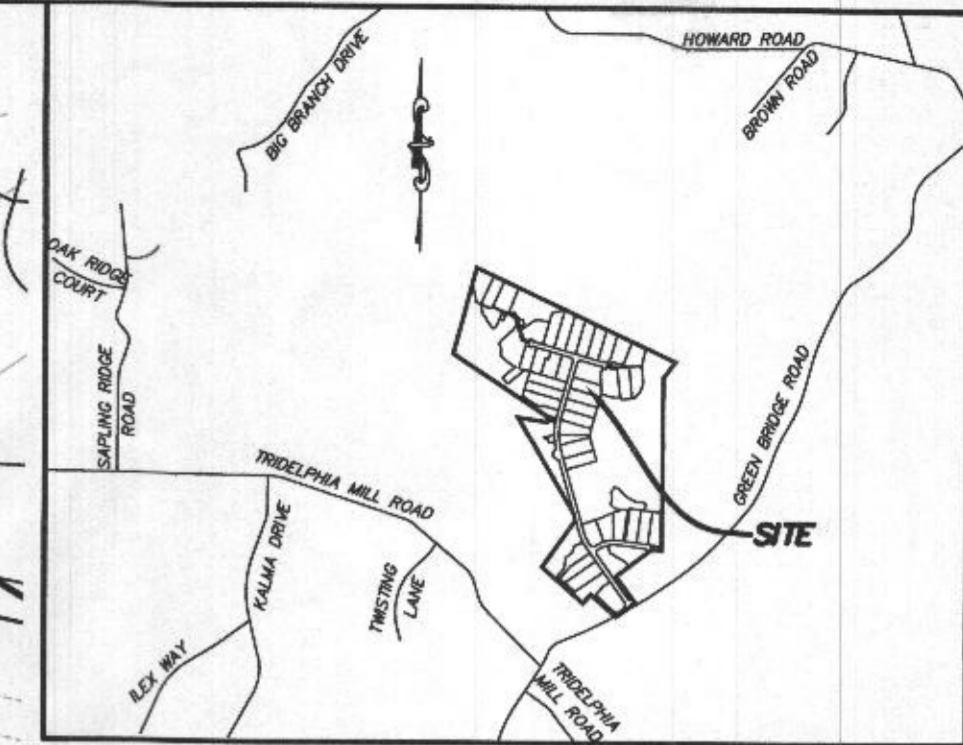
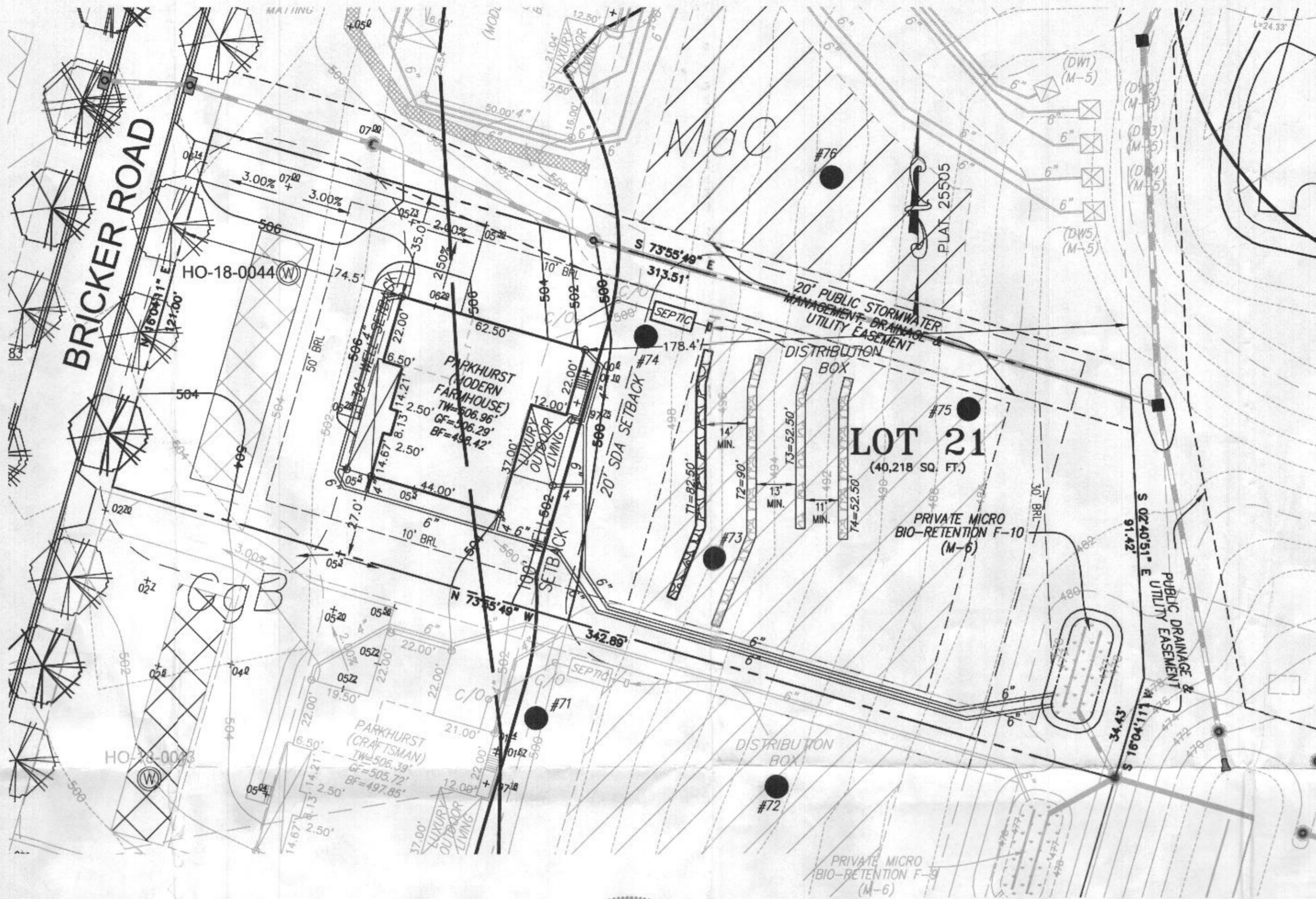
**INITIAL SYSTEM TRENCH DETAIL (T1)**  
(NOT TO SCALE)



**1ST REPLACEMENT SYSTEM TRENCH DETAIL (T2)**  
(NOT TO SCALE)



**2ND REPLACEMENT SYSTEM TRENCH DETAIL (T3 AND T4)**  
(NOT TO SCALE)



**VICINITY MAP**

1" = 2000'  
 TAX MAP 27, GRID 18

**GENERAL NOTES:**

- THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE. IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS UNTO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
- ANY CHANGES TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS AND A TOPOGRAPHIC SURVEY PREPARED BY BOHLER ENGINEERING ON 08/25/15 AND REVISED ON 09/03/15.



**SOILS LEGEND**

SOIL	NAME	CLASS	Kw
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.28
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.28

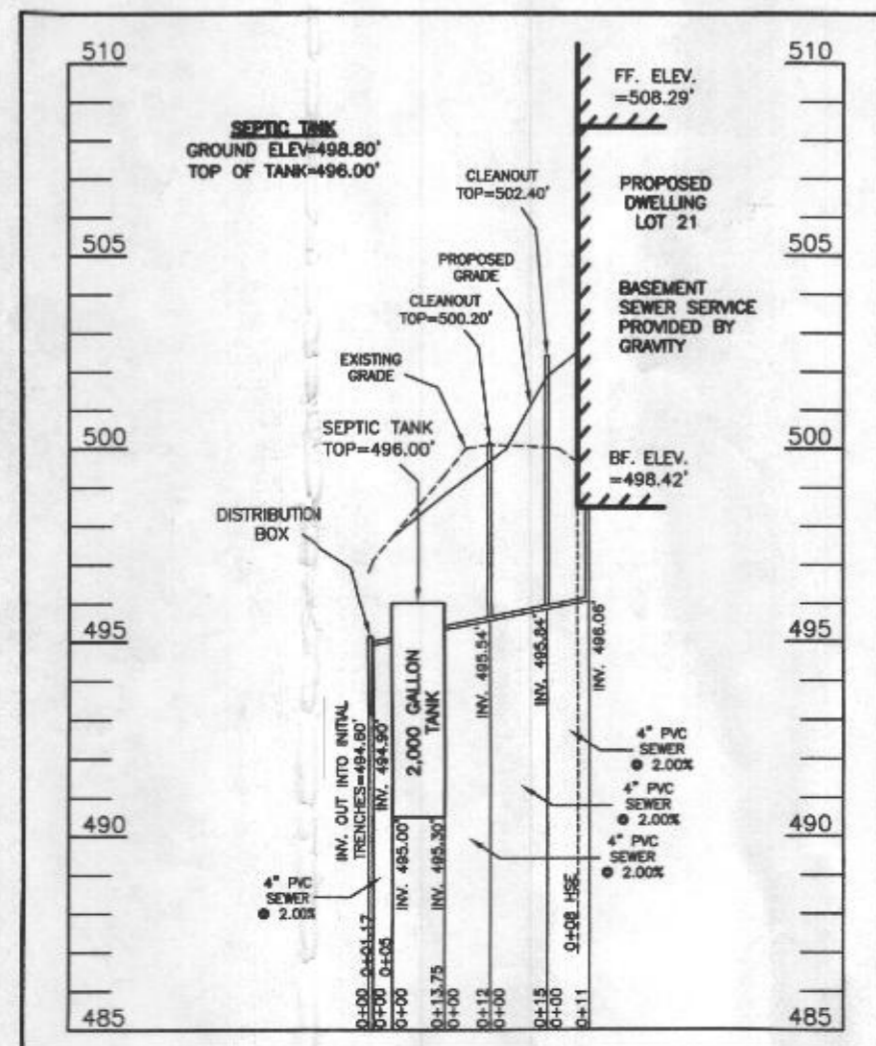
**LEGEND:**

- BUILDING RESTRICTION LINE
- WELL LOCATION
- TOP OF WALL
- GARAGE FLOOR
- BASEMENT FLOOR
- PASSED PERC LOCATION
- SEWAGE DISPOSAL AREA
- WELL BOX AREA
- PROPOSED TREE
- PROPOSED TREE
- SOIL DELINEATION LINE

Approved Septic System Plan  
 Howard County Health Department  
 2000-gallon Septic Tank  
 to Gravity Distribution  
 for 6-bed room residence  
 Signature: [Signature] Date: 2/18/2022

**SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)**

- EX. GRADE OVER TANK: 499.30'  
 PROPOSED GRADE OVER TANK: 498.80'  
 INVERT IN: 495.30' INVERT OUT: 495.00'
- DISTRIBUTION BOX  
 EXISTING GRADE OVER TANK: 496.80'  
 PROPOSED GRADE OVER TANK: 496.80'  
 INVERT IN: 494.90' INVERT OUT: 494.60'
- INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
 900 GPD ÷ 1.2 APP. RATE = 750 SF  
 USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE  
 14' MIN. SPACING BETWEEN TRENCH EDGES  
 750 SF ÷ 3' WIDTH = 250 LF x 0.33 (SIDEWALL REDUCTION) = 82.50 LF MIN.  
 USE 1 82.50' LONG TRENCHES = 82.50 LF
- 1ST REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
 900 GPD ÷ 1.2 APP. RATE = 750 SF  
 USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE  
 13' MIN. SPACING BETWEEN TRENCH EDGES  
 750 SF ÷ 3' WIDTH = 250 LF x 0.36 (SIDEWALL REDUCTION) = 90 LF MIN.  
 USE 1 90' LONG TRENCHES = 90 LF
- 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
 900 GPD ÷ 1.2 APP. RATE = 750 SF  
 USE 3' WIDE TRENCH WITH 54" GRAVEL BELOW PIPE  
 11' MIN. SPACING BETWEEN TRENCH EDGES  
 750 SF ÷ 3' WIDTH = 250 LF x 0.42 (SIDEWALL REDUCTION) = 105 LF MIN.  
 USE 2 52.50' LONG TRENCHES = 105 LF

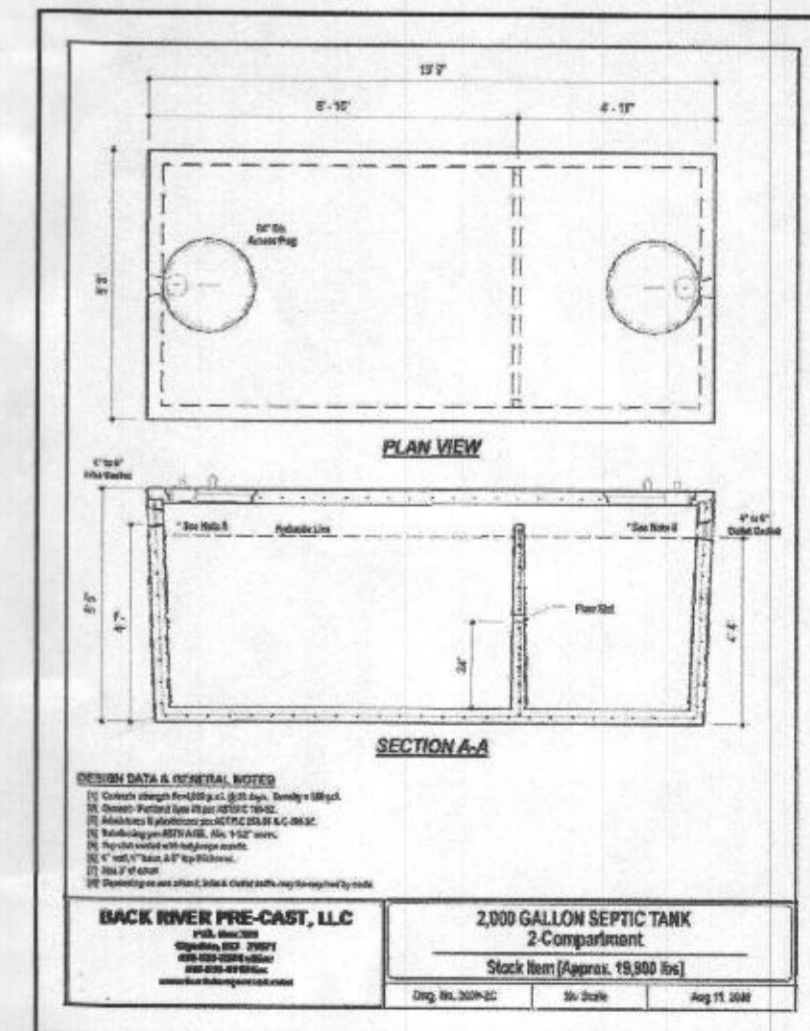


**SEPTIC SYSTEM PROFILE**  
 SCALE = HORIZONTAL: 1"=50'  
 VERTICAL: 1"=5'

**WELL LOCATION CERTIFICATION:**

THE EXISTING WELL SHOWN FOR LOT 21 (TAG NO. HO-18-0044) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN  
**LOT 21**  
**WILLOWSHIRE**  
 LIBER 18479, FOLIO 296  
 PLAT NO. 25505  
 5th ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 ADDRESS: 6050 BRICKER ROAD  
 DAYTON, MARYLAND 21036



**BACK RIVER PRE-CAST, LLC**  
 2,000 GALLON SEPTIC TANK  
 2-Compartment  
 Stack Height (Approx. 15,000 lbs)  
 Aug 15, 2018

**ESE CONSULTANTS**  
 ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

ESE Consultants, Inc.  
 6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046  
 T: 410-872-9105

DATE: 02/04/2022 SCALE: 1" = 30' FILE: OSDS LOT 21  
 CHK'D: M.J.B. JOB NO: 4520 DRAWN: T.B.O./R.C.K.