

**Bureau of Environmental Health**

8930 Stanford Boulevard, Columbia, MD 21045

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www.hchealth.org

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

RECEIPT DATE: 4-22-21 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 508872

APPROVAL DATE: 3/4/22 (ST) **PERMIT: CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 6501 MARE COURT, DAYTON, MD 21036

SUBDIVISION: WILLOWSHIRE LOT: 13 TAX ID: 03-603001

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: Sriley1@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>112</u>	INLET DEPTH: <u>3.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.5</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 CLEANOUT IN SHC. SET DISTRIBUTION BOX AT BEGINNING OF UPPER TRENCH	

ISSUED BY: R BRICKER ISSUE DATE: 4-22-21 EXPIRATION DATE: 4-22-22

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

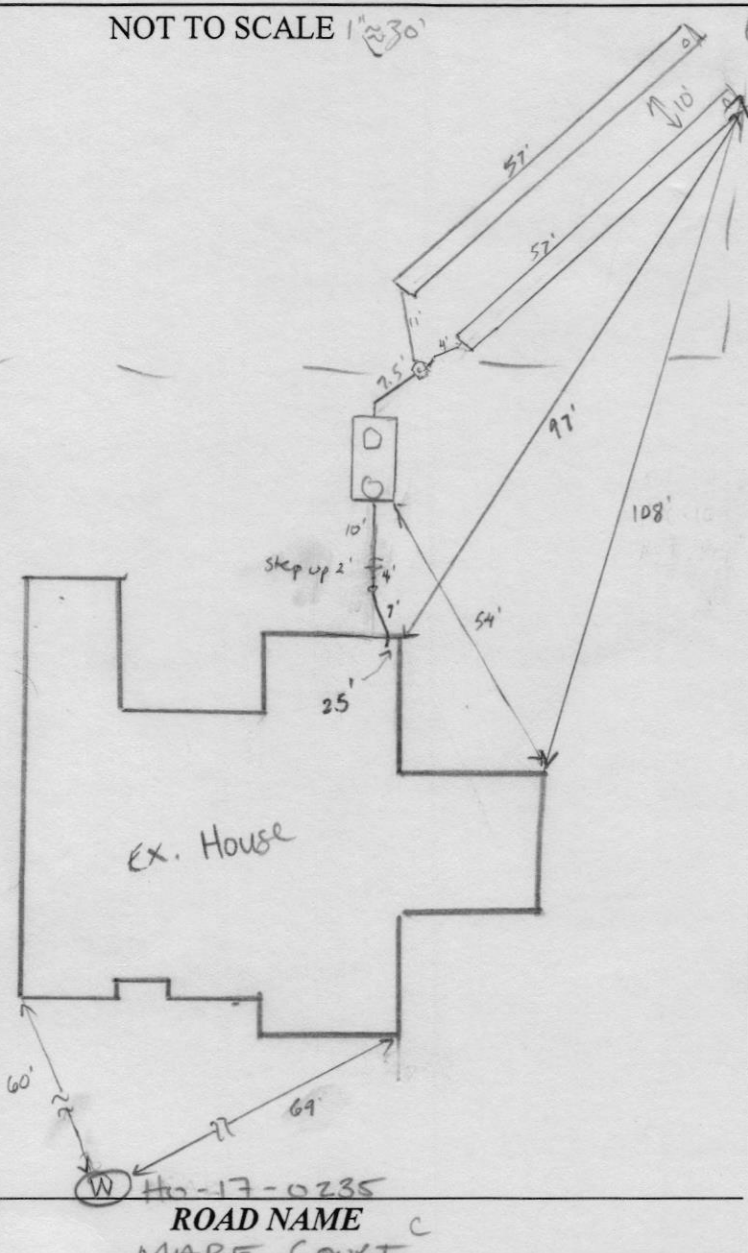
**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.**

**PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.**

**CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

6501 Mare Ct

NOT TO SCALE 1" = 30'



**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3'	5'	8'
NUMBER OF TRENCHES		2'
TOTAL LENGTH		114'
ABSORPTION AREA		342 sq ft + sidewalk
DISTRIBUTION BOX LEVEL		yes
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	3' inlet, 4.5' outlet
BAFFLES	inlet + outlet
BAFFLE FILTER	-
MANHOLE LOC	inlet + outlet
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	3-12-21

**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:**

04/06/2021 CONFIRMED SURVEYED STAKES OF TANK, SDA, AND TRENCH CONTOUR. OK TO START. (S)

INSTALLATION: 4/28/21 Tank set, d-box set and leveled. 2 x 57' trenches constructed. Reinspect for SHC, yo, inlet baffle. (S) 8/9/21 SHC and SL constructed. (S) 3/4/22 SHC and SL redone after house explosion. (S)

FINAL INSPECTOR

*Dustin Thomas*

DATE OF APPROVAL

8/9/21

**HOUSE OPTIONS**

HOUSE TYPE: PARKHURST (MODERN FARMHOUSE)

- TWO CAR SIDE ENTRY GARAGE
- FINISHED LOWER LEVEL
- WALK-OUT BASEMENT
- OPTIONAL BATH FOR FINISHED LOWER LEVEL
- ADDITIONAL TWO CAR FRONT ENTRY GARAGE
- MULTI-GENERATIONAL SUITE ADDITION
- OPTIONAL DROP ZONE
- LUXURY COVERED DECK
- BEDROOM FOR FINISHED LOWER LEVEL
- FINISHED AREA IN LOWER LEVEL UNDER MULTI-GEN SUITE
- DOUBLE WIDE DRIVEWAY TAIL
- WET BAR ROUGH-IN
- 4 HOPPER WINDOWS INCLUDED IN BASEMENT
- COSMO FIREPLACE ADDITION IN LIEU OF STNADARD

- OPTION No. 012
- OPTION No. 013
- OPTION No. 017
- OPTION No. 383
- OPTION No. 263019
- OPTION No. 263073
- OPTION No. 263081
- OPTION No. 263168
- OPTION No. 263216
- OPTION No. 90013010
- OPTION No. 90013013
- OPTION No. 90013009
- OPTION No. 90013012
- OPTION No. 106079

**INITIAL TRENCH DATA:**

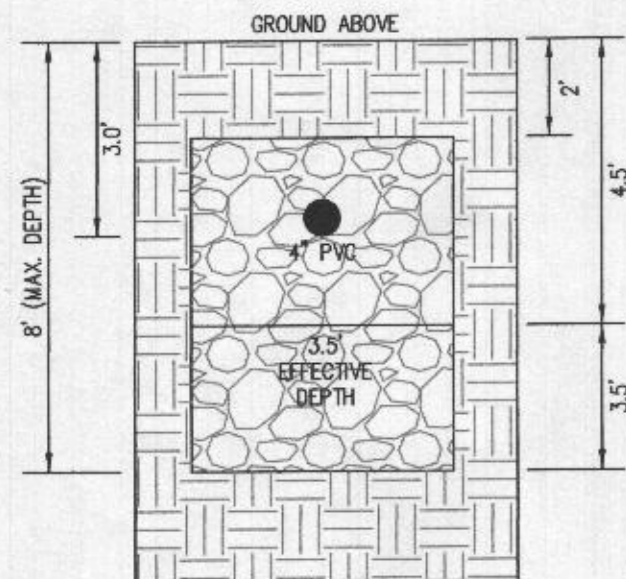
BOTTOM MAX. DEPTH (8')

**TRENCH 1 (T1): 56.25 LF.**

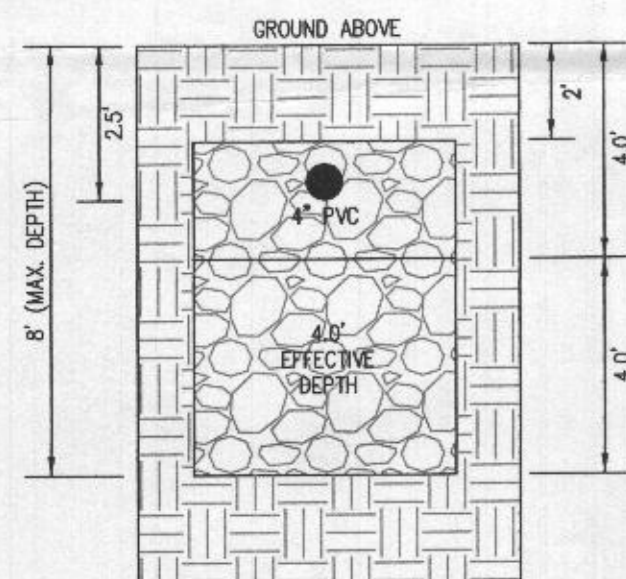
GROUND ABOVE = 446.30'  
INV. IN = 443.30'  
BOTTOM TRENCH = 438.30'

**TRENCH 2 (T2): 56.25 LF.**

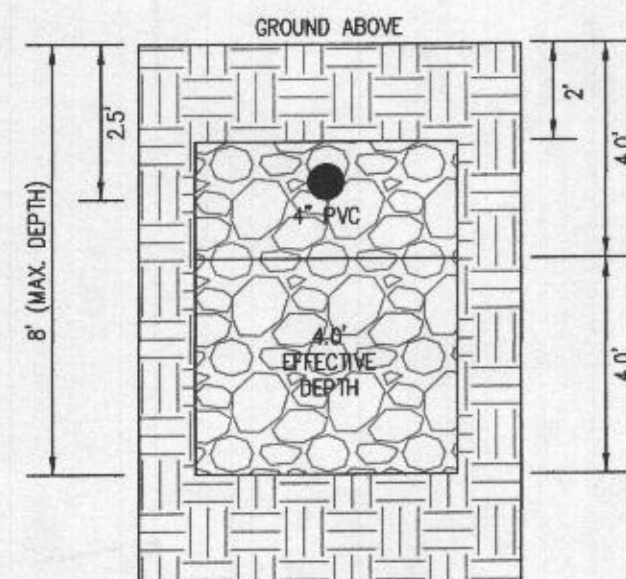
GROUND ABOVE = 444.30'  
INV. IN = 441.30'  
BOTTOM TRENCH = 436.30'



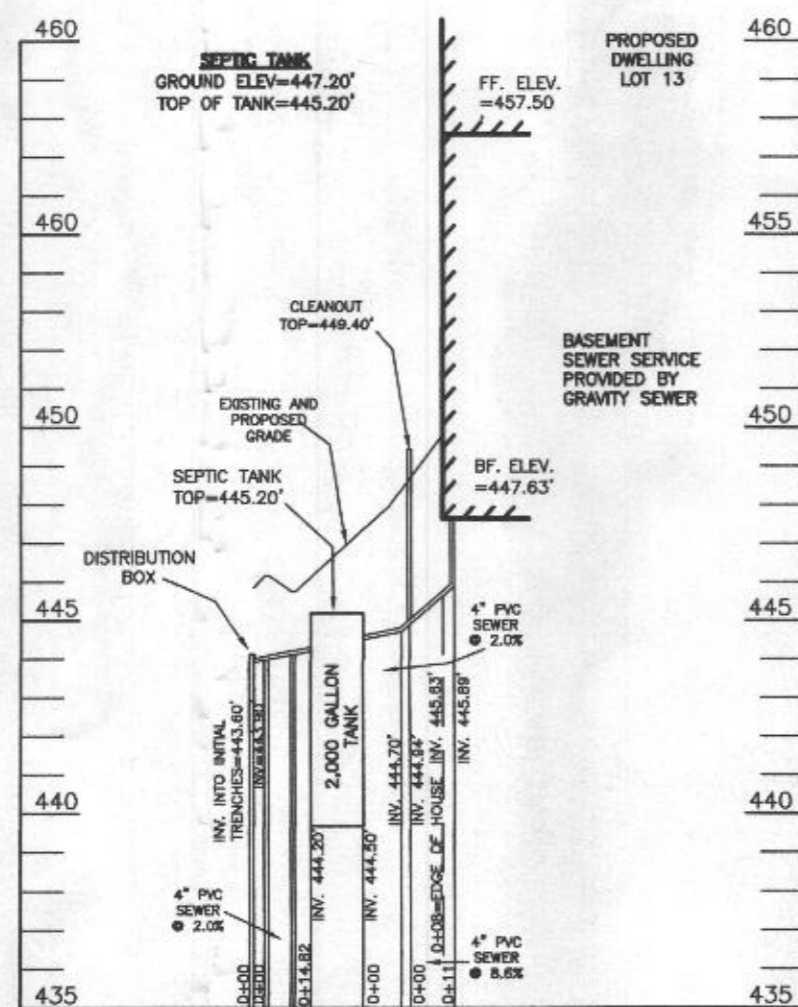
INITIAL SYSTEM  
TRENCH DETAIL (T1) AND (T2)  
(NOT TO SCALE)



1ST REPLACEMENT SYSTEM  
TRENCH DETAIL (T3 & T4)  
(NOT TO SCALE)



2ND REPLACEMENT SYSTEM  
TRENCH DETAIL (T5 & T6)  
(NOT TO SCALE)

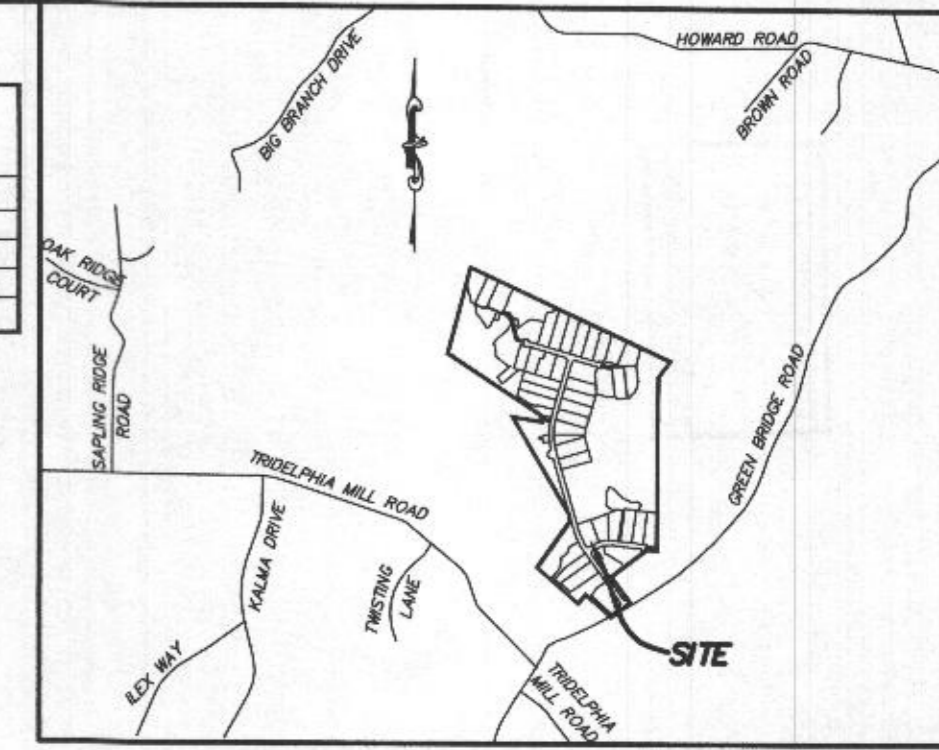
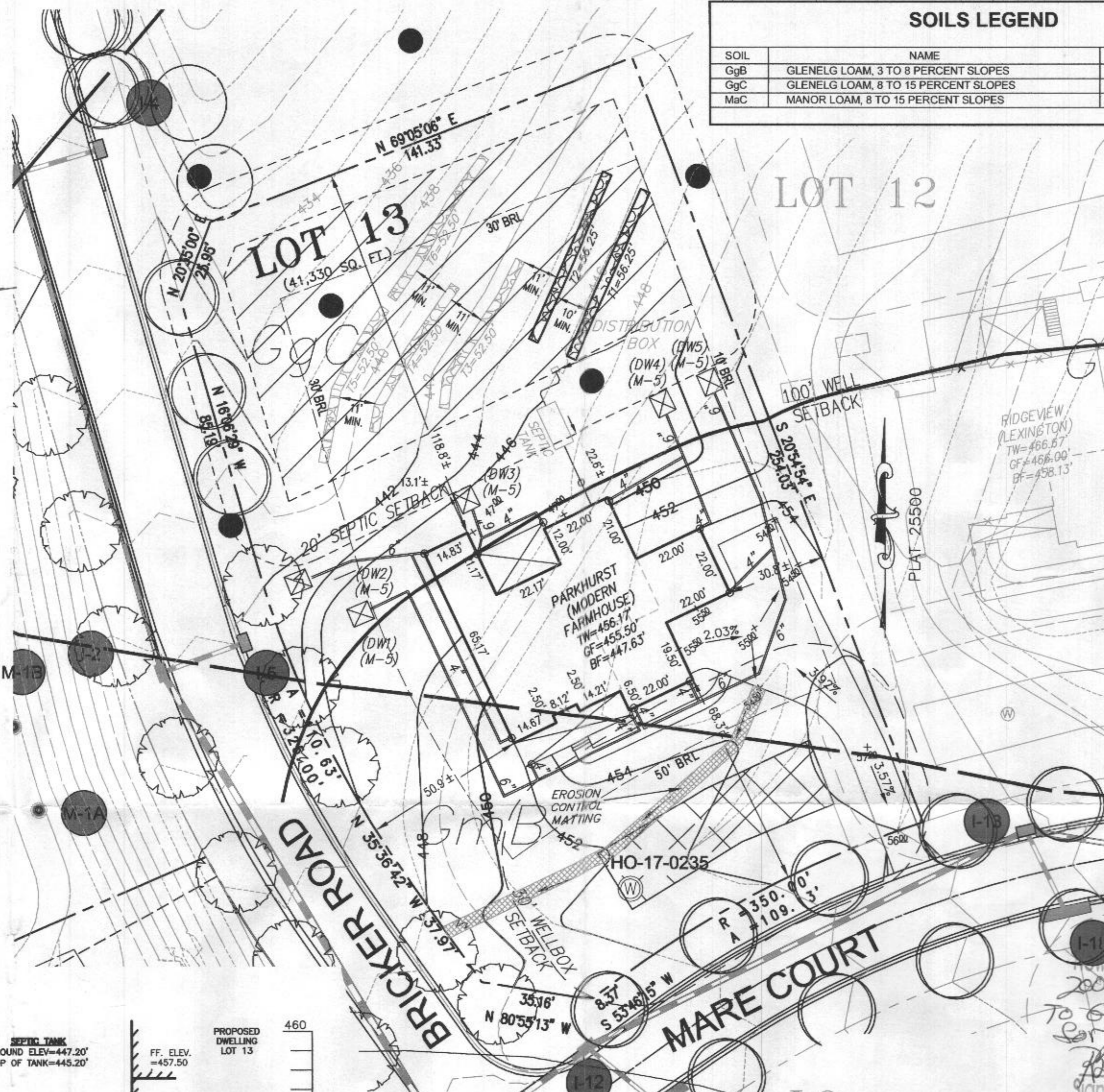


SEPTIC SYSTEM PROFILE  
SCALE = HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'

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.



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



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 INTO 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 PLAN.
  - 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.

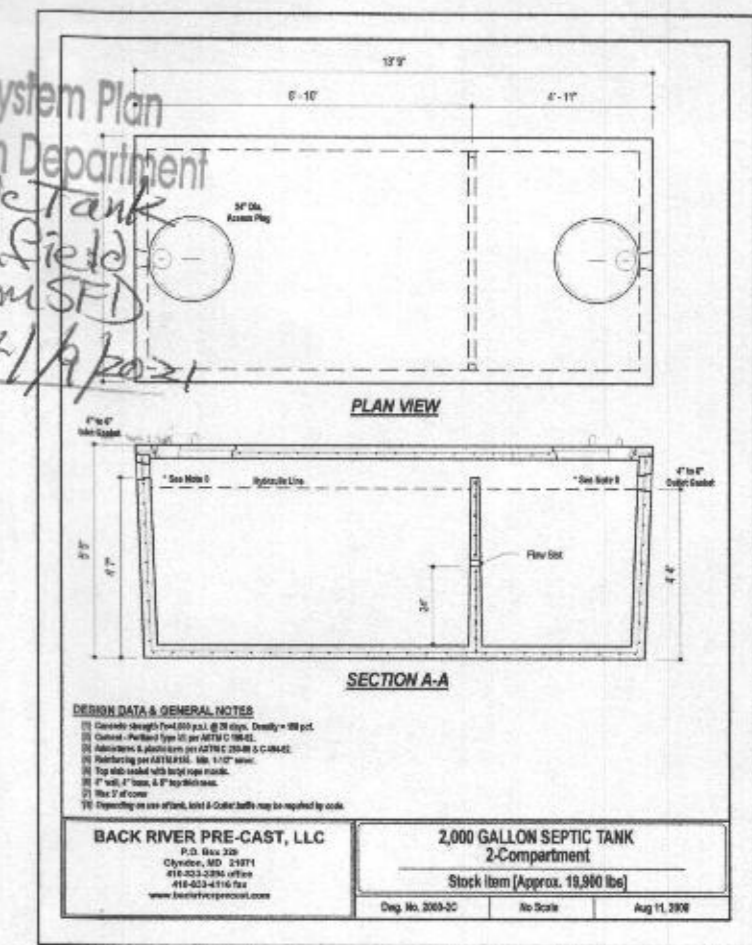
**SEWAGE DISPOSAL SYSTEM DATA (6 BDRM):**

- PROPOSED INVERT AT FOUNDATION WALL: 445.63'
- EX. GRADE OVER TANK: 447.20'  
PROPOSED GRADE OVER TANK: 447.20'  
INVERT IN: 444.50' INVERT OUT: 444.20'
  - DISTRIBUTION BOX  
EXISTING GRADE OVER TANK: 446.00'  
PROPOSED GRADE OVER TANK: 446.00'  
INVERT IN: 443.90' INVERT OUT: 443.60'
  - INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
900 GPD ÷ 1.2 APP. RATE = 750 SF  
USE 3' WIDE TRENCH WITH 60" GRAVEL BELOW PIPE  
10' MIN. SPACING BETWEEN TRENCH EDGES  
750 SF ÷ 3' WIDTH = 250 LF x 0.45 (SIDEWALL REDUCTION) = 112.50 LF MIN.  
USE 2 56.25' LONG TRENCHES = 112.50 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  
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
  - 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 66" 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

- LEGEND:**
- BRL BUILDING RESTRICTION LINE
  - W WELL LOCATION
  - T.W. TOP OF WALL
  - G.F. GARAGE FLOOR
  - B.F. BASEMENT FLOOR
  - P.P. PASSED PERC LOCATION
  - F.P. FAILED PERC LOCATION
  - SEPTIC RESERVE AREA
  - WELL BOX AREA
  - PROPOSED TREE
  - PROPOSED TREE
  - PROPOSED TREE

**WELL LOCATION CERTIFICATION:**  
THE EXISTING WELL SHOWN FOR LOT 13 (TAG NO. HO-17-0235) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN  
**LOT 13 WILLOWSHIRE**  
LIBER 18479, FOLIO 296  
PLAT NO. 25500  
ELECTION DISTRICT No. 5  
HOWARD COUNTY, MARYLAND  
ADDRESS: 6505 MARE COURT  
DAYTON, MARYLAND 21036



**ESE CONSULTANTS**  
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ESE Consultants, Inc.  
7164 Columbia Gateway Drive • Suite 230 • Columbia, MD 21046  
T: 410-872-9105

DATE: 03/15/2021 SCALE: 1"=30' FILE: OSDS LOT 13\_rev1  
CHK'D: M.J.B. JOB NO: 4520 DRAWN: R.W.A.