

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

# 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)

RECEIPT DATE: 3-29-21 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 568815

APPROVAL DATE: 10/1/21 **PERMIT: CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 6505 MARE COURT, DAYTON, MD 21036

SUBDIVISION: WILLOWSHIRE

LOT: 12

TAX ID: 03-603000

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: 5

APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED:	<u>88</u>	INLET DEPTH:	<u>2.5</u>
	TRENCH WIDTH:	<u>3</u>	MAXIMUM BOTTOM DEPTH:	<u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES:	<u>11</u>	EFFECTIVE AREA BEGINNING DEPTH:	<u>4.0</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, AND ORIENT SEPTIC TANK TO REDUCE THE ANGLES BETWEEN THE SEPTIC TANK AND DISTRIBUTION BOX			

ISSUED BY: R BRICKER

ISSUE DATE: \_\_\_\_\_

EXPIRATION DATE: \_\_\_\_\_

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 DOWNGRAIENT 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.

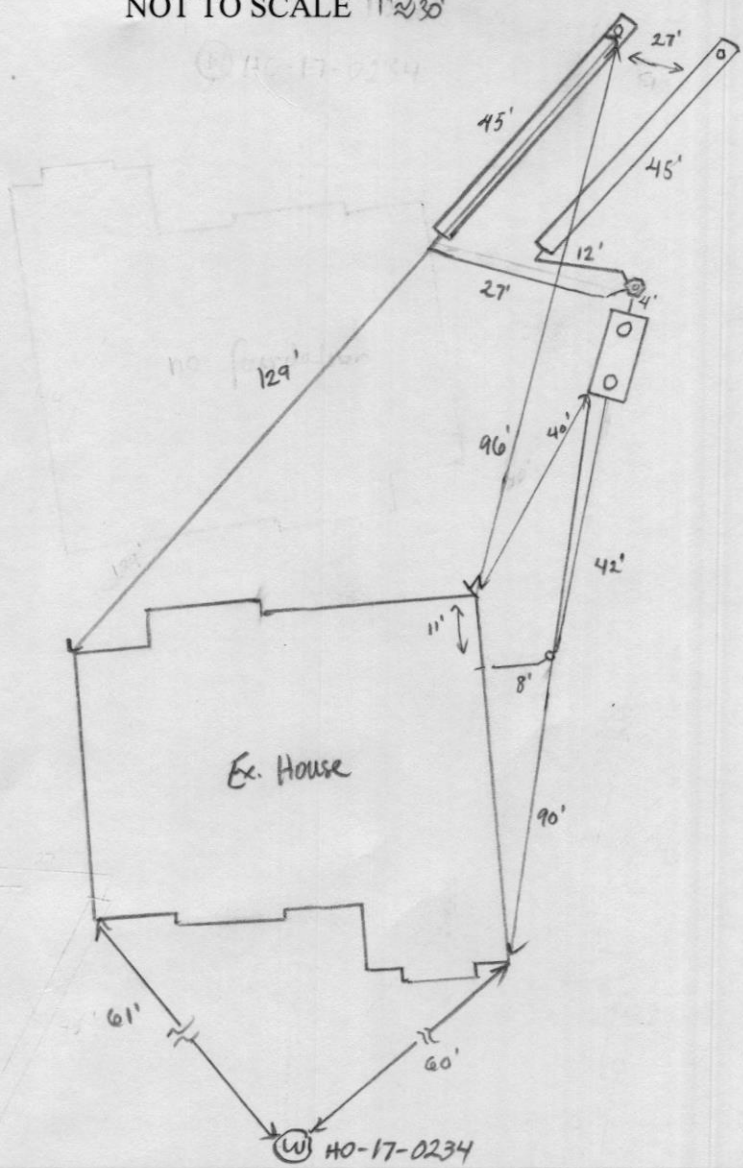
NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

**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 1"=30'



### TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2.5'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		90'
ABSORPTION AREA		270 sq ft + sidewall
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

### SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL

MANUFACTURER Babylon

CAPACITY 2000 GAL

SEAM LOC top

TANK LID DEPTH 1.5'

BAFFLES inlet + outlet

BAFFLE FILTER -

MANHOLE LOC inlet + outlet

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED yes

DATE ON LID 2-26-21

### 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:

4/6/21 Laid out 2x45' trenches on contour according to plan. (S)

### INSTALLATION:

4/7/21 Tank set, d-box set and 2x45' trenches constructed. Re-inspect for sewer line, inlet baffle and SHC. (S) 8/9/21 SL constructed. Hole in foundation drilled too low. Reinsp for SHC. (S) 10/1/21 SHC covered by plumber. Contractor ran water from house into tank (S)

FINAL INSPECTOR

Susan Thomas

DATE OF APPROVAL

10/1/21



# HOUSE OPTIONS:

HOUSE TYPE: RIDGEVIEW (MODERN FARMHOUSE)

WALK-OUT BASEMENT  
OPTIONAL DROP ZONE  
LUXURY COVERED DECK  
DOUBLE WIDE TURN AROUND PAD FOR DRIVEWAY

OPTION NO. 017  
OPTION NO. 263081  
OPTION NO. 263168  
OPTION NO. 90012001

## INITIAL TRENCH DATA:

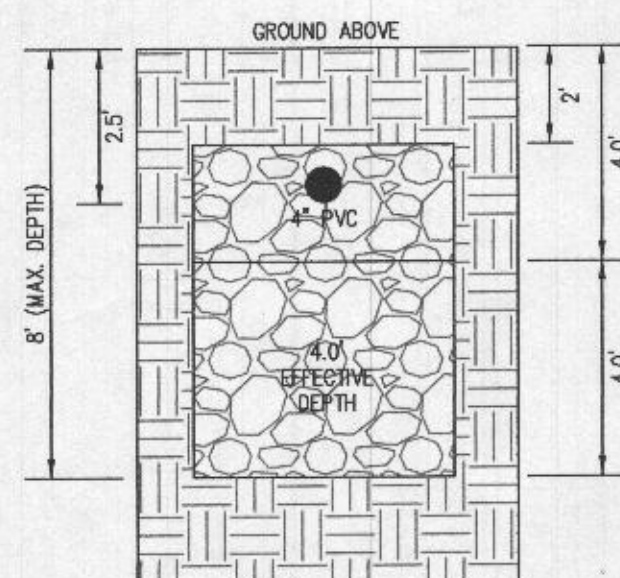
BOTTOM MAX. DEPTH (8')

TRENCH 1 (T1): 43.75 LF

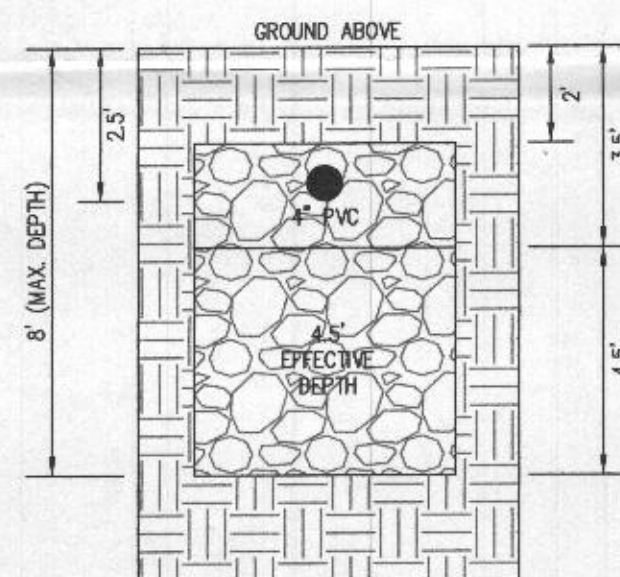
GROUND ABOVE = 460.70'  
INV. IN = 458.20'  
BOTTOM TRENCH = 454.70'

TRENCH 2 (T2): 43.75 LF

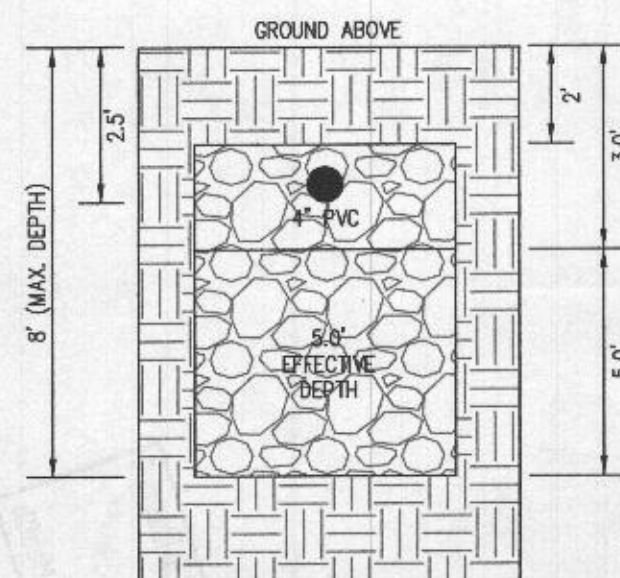
GROUND ABOVE = 459.40'  
INV. IN = 456.90'  
BOTTOM TRENCH = 451.40'



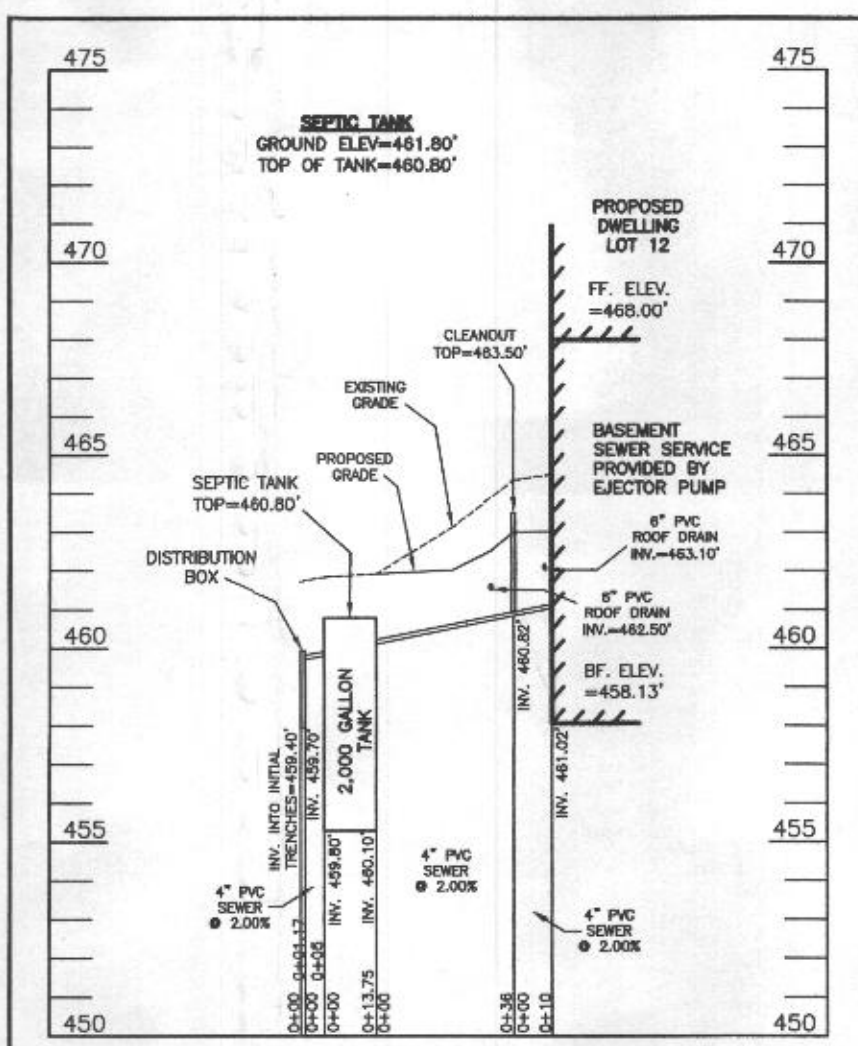
INITIAL SYSTEM  
TRENCH DETAIL (T1) AND (T2)  
(NOT TO SCALE)



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



2ND REPLACEMENT SYSTEM  
TRENCH DETAIL (T4)  
(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.



## SEWAGE DISPOSAL SYSTEM DATA (5 BDRM):

- PROPOSED INVERT AT FOUNDATION WALL: 461.02'  
1. EX. GRADE OVER TANK: 461.80'  
PROPOSED GRADE OVER TANK: 461.80'  
INVERT IN: 460.10' INVERT OUT: 459.80'
- DISTRIBUTION BOX  
EXISTING GRADE OVER TANK: 461.70'  
PROPOSED GRADE OVER TANK: 461.70'  
INVERT IN: 459.70' INVERT OUT: 459.40'
- INITIAL TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)  
750 GPD ÷ 1.2 APP. RATE = 625 SF  
USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE  
11' MIN. SPACING BETWEEN TRENCH EDGES  
625 SF ÷ 3' WIDTH = 208.33 LF x 0.42 (SIDEWALL REDUCTION) = 87.50 LF MIN.  
USE 2 43.75' LONG TRENCHES = 87.50 LF
- 1ST REPLACEMENT TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)  
750 GPD ÷ 1.2 APP. RATE = 625 SF  
USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE  
12' MIN. SPACING BETWEEN TRENCH EDGES  
625 SF ÷ 3' WIDTH = 208.33 LF x 0.38 (SIDEWALL REDUCTION) = 76.17 LF MIN.  
USE 1 76.25' LONG TRENCHES = 76.25 LF
- 2ND REPLACEMENT TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)  
750 GPD ÷ 1.2 APP. RATE = 625 SF  
USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE  
13' MIN. SPACING BETWEEN TRENCH EDGES  
625 SF ÷ 3' WIDTH = 208.33 LF x 0.36 (SIDEWALL REDUCTION) = 75 LF MIN.  
USE 1 75' LONG TRENCHES = 75 LF

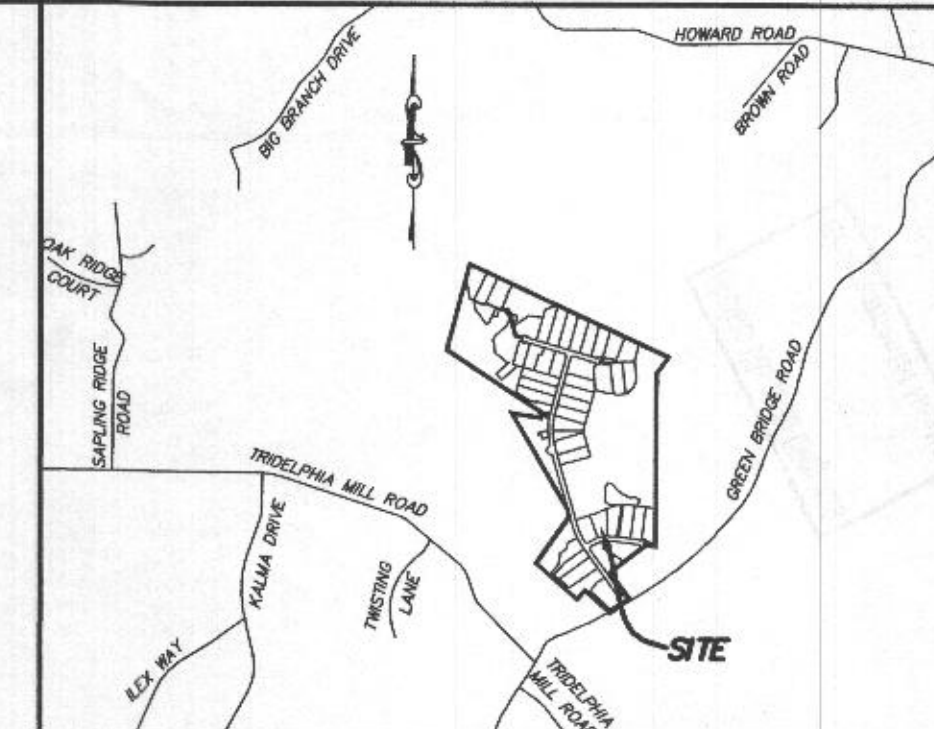
## LEGEND:

- 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

## WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 2 (TAG NO. HO-17-0234) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN  
LOT 12  
WILLOWSHIRE  
LIBER 18479, FOLIO 296  
PLAT NO. 25503  
ELECTION DISTRICT NO. 5  
HOWARD COUNTY, MARYLAND  
ADDRESS: 6505 MARE COURT  
DAYTON, MARYLAND 21036

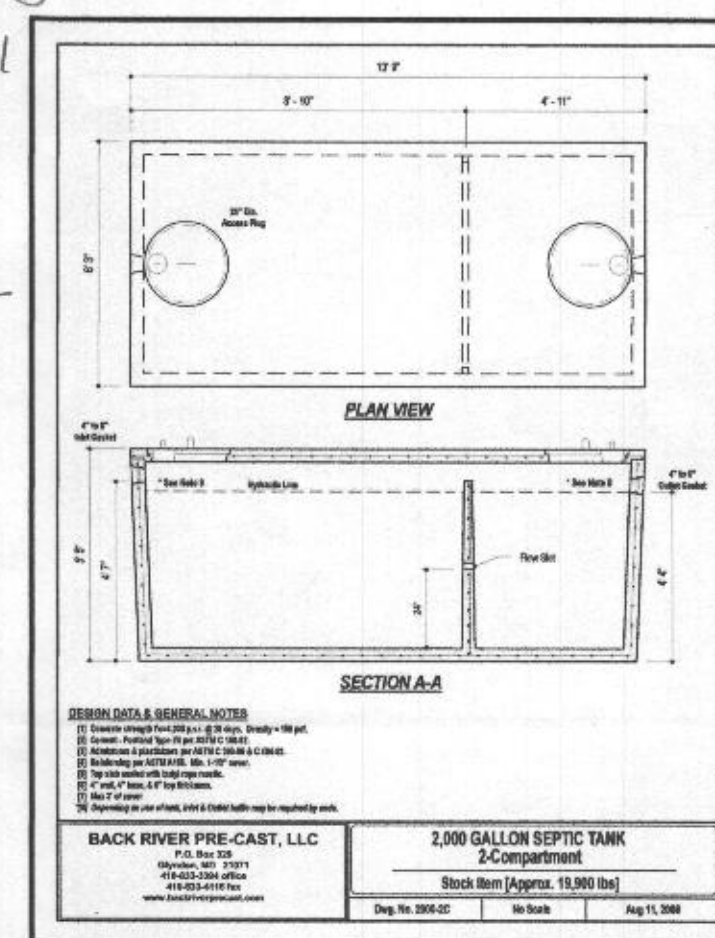


## VICINITY MAP

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 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.



## ESE CONSULTANTS

ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL  
ESE Consultants, Inc.  
7164 Columbia Gateway Drive • Suite 230 • Columbia, MD 21046  
T: 410-872-9105

DATE: 01/13/2021 SCALE: 1"= 30' FILE: OSDS LOT 2  
CHK'D: M.J.B. JOB NO: 4520 DRAWN: R.C.K.

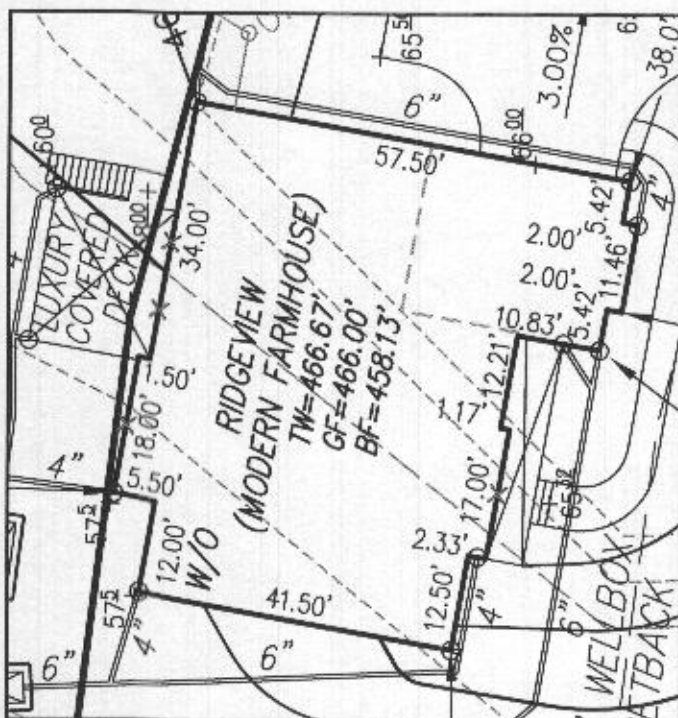


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LEGEND:

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W WELL LOCATION  
T.W. TOP OF WALL  
G.F. GARAGE FLOOR  
B.F. BASEMENT FLOOR  
PASSED PERC LOCATION  
FAILED PERC LOCATION  
SILT FENCE  
SUPER SILT FENCE  
SCE STONE CONSTRUCTION ENTRANCE  
SEPTIC RESERVE AREA  
WELL BOX AREA  
PROPOSED TREE  
PROPOSED TREE  
PROPOSED TREE

NOTE:  
TOTAL LIMITS OF DISTURBANCE (LOD) = 27,230 SQ. FT.



HOUSE ENLARGEMENT  
NOT TO SCALE

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN  
SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.

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OPTION No. 90012001

WELL NUMBER: HO-17-0234

ADDRESS: 6505 MARE COURT  
DAYTON, MD 21036

PLOT PLAN  
LOT 12  
WILLOWSHIRE  
LIBER 18479, FOLIO 296  
PLAT NO. 25503  
5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

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

DATE: 01/12/2021 SCALE: 1" = 30' FILE: 4520 PP Lot 12 - RIDGE. M.F.  
CHK'D: M.J.B. JOB NO: 4520 DRAWN: V.X.P. / R.C.K.

