



Howard County Health Department

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

Facebook: www.facebook.com/hocohealth

RECEIPT DATE: 4-27-22 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 571519

APPROVAL DATE: 5/12/22 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 6041 BRICKER ROAD, DAYTON, MD 21036

SUBDIVISION: WILLOWSHIRE

LOT: 45

TAX ID: 05-603033

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>95</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>12</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.5</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 AT LEAST TWO (2) CLEANOUTS IN SHC.	

ISSUED BY: R BRICKER

ISSUE DATE: 4-28-22

EXPIRATION DATE: 4-27-23

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 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 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

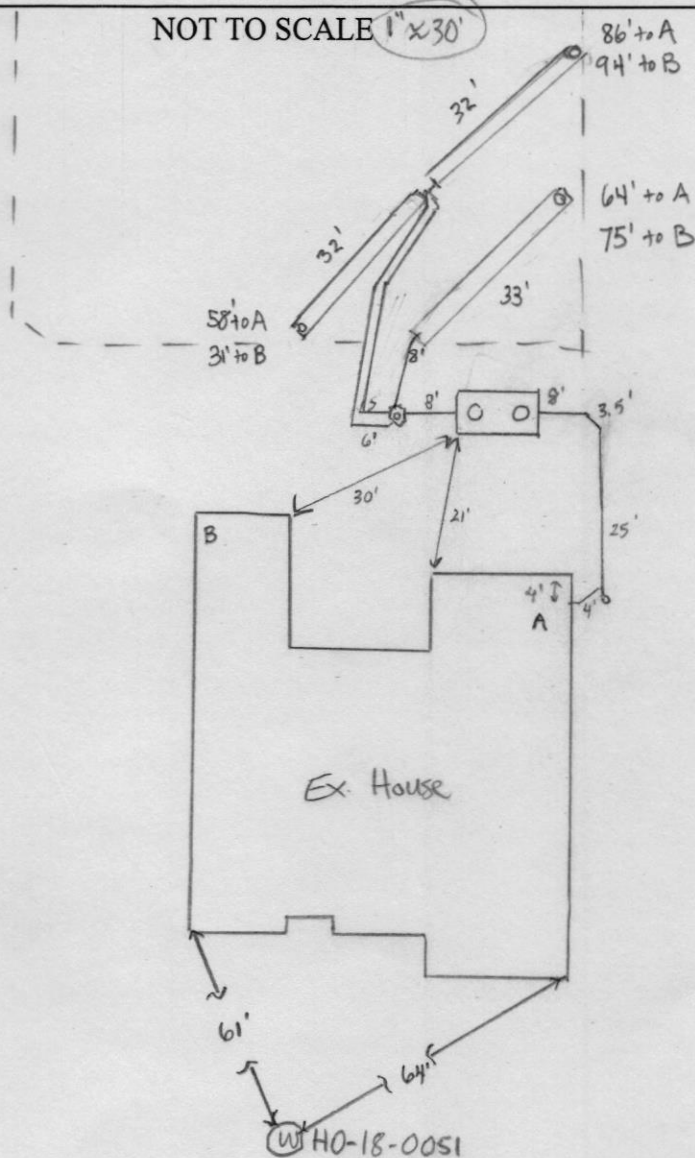
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

6041 Bricker Rd

NOT TO SCALE 1"=30'



ROAD NAME

Bricker Rd

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2.5'	8'
NUMBER OF TRENCHES		3
TOTAL LENGTH		97'
ABSORPTION AREA		291 sqft + sidewall
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	2.5'-2'
BAFFLES	inlet + outlet
BAFFLE FILTER	-
MANHOLE LOC	inlet + outlet
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	4-4-22

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:

5/5/22 3x33' trenches staked out on contour according to plan. Plenty of fall to tank (SD)

INSTALLATION: 5/11/22 SL, SHC constructed. Tank and d-box set (SD)

5/12/22 - header trench complete; trenches (x3) for septic system also installed, soils consistent w/ perc notes, geo-textile fabric in place, stone ok, dbox leveled, - OK to backfill (RR)

FINAL INSPECTOR

R. Rappeport

DATE OF APPROVAL

5/12/22

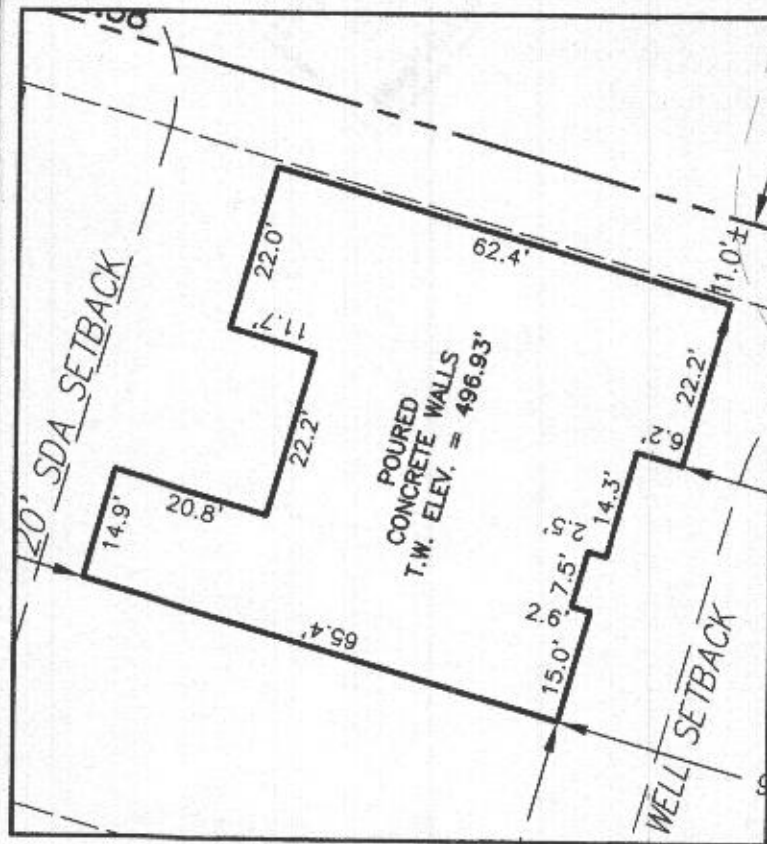
6041 Bricker Rd - 5/12/22



LEGEND:

BRL BUILDING RESTRICTION LINE
W WELL LOCATION
T.W. TOP OF WALL

SEWAGE DISPOSAL AREA
WELL BOX AREA



HOUSE ENLARGEMENT
NOT TO SCALE

WELL NUMBER: HO-18-0051

ADDRESS: 6041 BRICKER ROAD
DAYTON, MD 21036

PERMIT NO.: B21003558

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

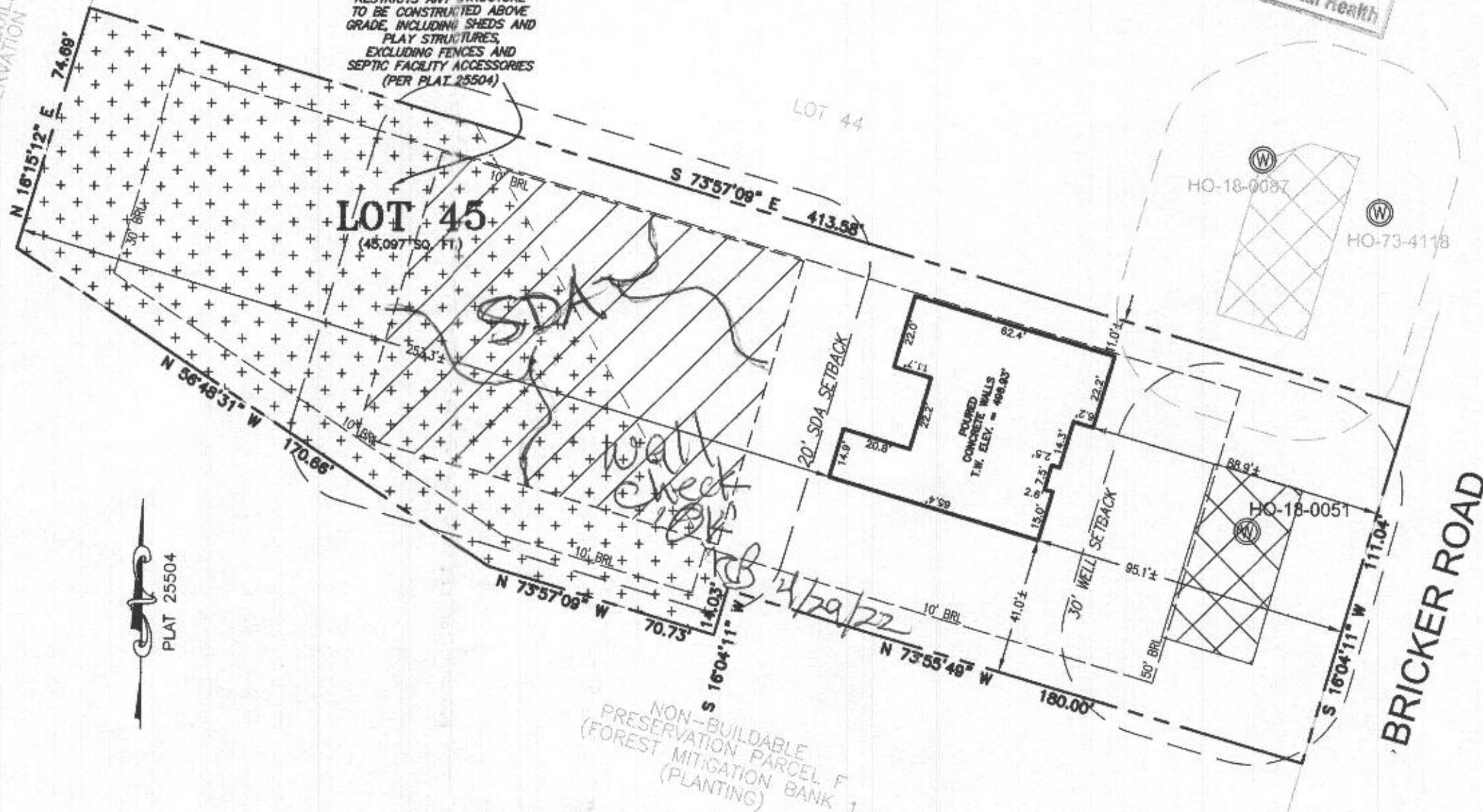
SURVEYOR'S CERTIFICATE

THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHT-OF-WAYS, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED.
THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.

SIGNATURE: MICHAEL JOE BOYCE 21328 03/02/22
MD. LIC NO. DATE

ADDITIONAL PRIVATE RESTRICTION LINE RESTRICTS ANY STRUCTURE TO BE CONSTRUCTED ABOVE GRADE, INCLUDING SHEDS AND PLAY STRUCTURES, EXCLUDING FENCES AND SEPTIC FACILITY ACCESSORIES (PER PLAT 25504)

NON-BUILDABLE PRESERVATION PARCEL F



APR 27 2022
Environmental Health

HO-18-0087
HO-73-4118

HO-18-0051

BRICKER ROAD

WALLCHECK

LOT 45
WILLOWSHIRE

LIBER 18479, FOLIO 296
PLAT NO. 25504
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

ESE CONSULTANTS

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6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046
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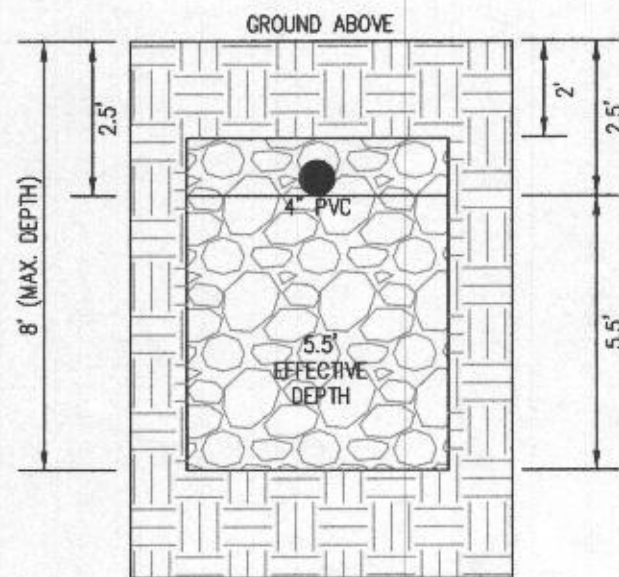
DATE: 03/02/2022
CHK'D: M.J.B.

SCALE: 1" = 40'
JOB NO: 4520

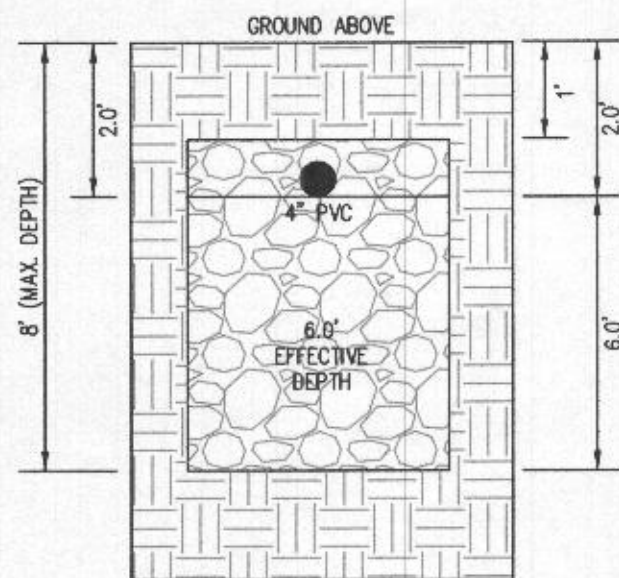
FILE: WC LOT 45
DRAWN: V.X.P.

INITIAL TRENCH DATA:

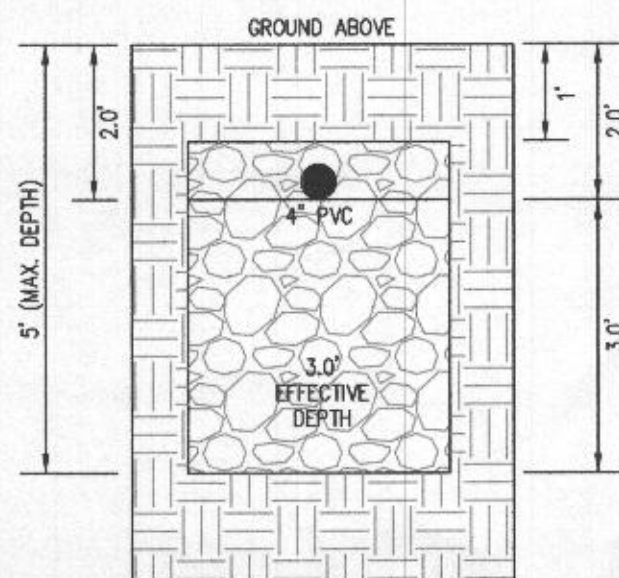
- BOTTOM MAX. DEPTH (8")
- TRENCH 1 (T1): 31.75 LF.**
GROUND ABOVE = 490.40'
INV. IN = 487.90'
BOTTOM TRENCH = 482.40'
- TRENCH 2 (T2): 31.75 LF.**
GROUND ABOVE = 488.80'
INV. IN = 485.30'
BOTTOM TRENCH = 480.80'
- TRENCH 3 (T3): 31.75 LF.**
GROUND ABOVE = 488.80'
INV. IN = 485.30'
BOTTOM TRENCH = 480.80'



INITIAL SYSTEM
TRENCH DETAIL (T1) THRU (T3)
(NOT TO SCALE)



1ST REPLACEMENT SYSTEM
TRENCH DETAIL (T4 AND T5)
(NOT TO SCALE)



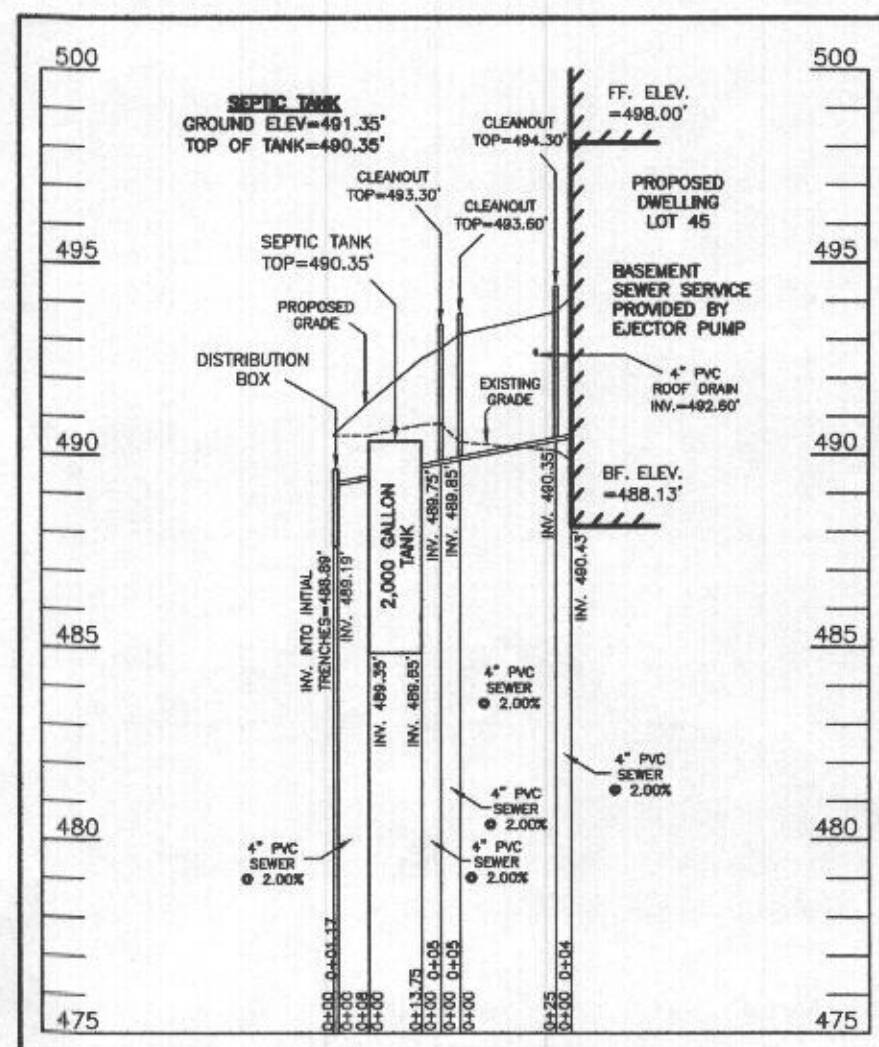
2ND REPLACEMENT SYSTEM
TRENCH DETAIL (T6 THRU T9)
(NOT TO SCALE)

HOUSE OPTIONS:

HOUSE TYPE: PARKHURST (FAIRVIEW)

FINISHED LOWER LEVEL
DAYLIGHT BASEMENT
ADDITIONAL BATH FINISHED LOWER LEVEL
DAYLIGHT WINDOW/Well IN BASEMENT
MULTI-GENERATIONAL SUITE ADDITION
LUXURY OUTDOOR LIVING
ADDITIONAL BEDROOM - FINISHED BASEMENT
DOUBLE WIDE TAIL FOR DRIVEWAY
WETBAR ROUGHIN
FINISHED AREA IN LOWER LEVEL UNDER
MULTI-GEN SUITE

OPTION No. 013
OPTION No. 018
OPTION No. 383
OPTION No. 543
OPTION No. 263073
OPTION No. 263165
OPTION No. 263216
OPTION No. 90045001
OPTION No. 90045003
OPTION No. 90045005



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

Approved Septic System Plan
Howard County Health Department

Signature: [Signature] Date: 10/27/2021

SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: 490.43'
1. EX. GRADE OVER TANK: 490.50'
PROPOSED GRADE OVER TANK: 491.35'
INVERT IN: 489.65' INVERT OUT: 489.35'
2. DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 490.50'
PROPOSED GRADE OVER TANK: 490.50'
INVERT IN: 489.19' INVERT OUT: 488.89'
3. 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
12" MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.38 (SIDEWALL REDUCTION) = 95 LF MIN.
USE 3 31.75' LONG TRENCHES = 95.25 LF
4. 1ST REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 0.8 APP. RATE = 1,125 SF
USE 3' WIDE TRENCH WITH 72" GRAVEL BELOW PIPE
15" MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF ÷ 3' WIDTH = 375 LF x 0.31 (SIDEWALL REDUCTION) = 116.25 LF MIN.
USE 3 38.75' LONG TRENCHES = 116.25 LF
5. 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 0.8 APP. RATE = 1,125 SF
USE 3' WIDE TRENCH WITH 36" GRAVEL BELOW PIPE
10" MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF ÷ 3' WIDTH = 375 LF x 0.50 (SIDEWALL REDUCTION) = 187.50 LF MIN.
USE 4 47.00' LONG TRENCHES = 188.00 LF

SOIL	NAME	CLASS	Kw
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	B	.43
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.28
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	.28

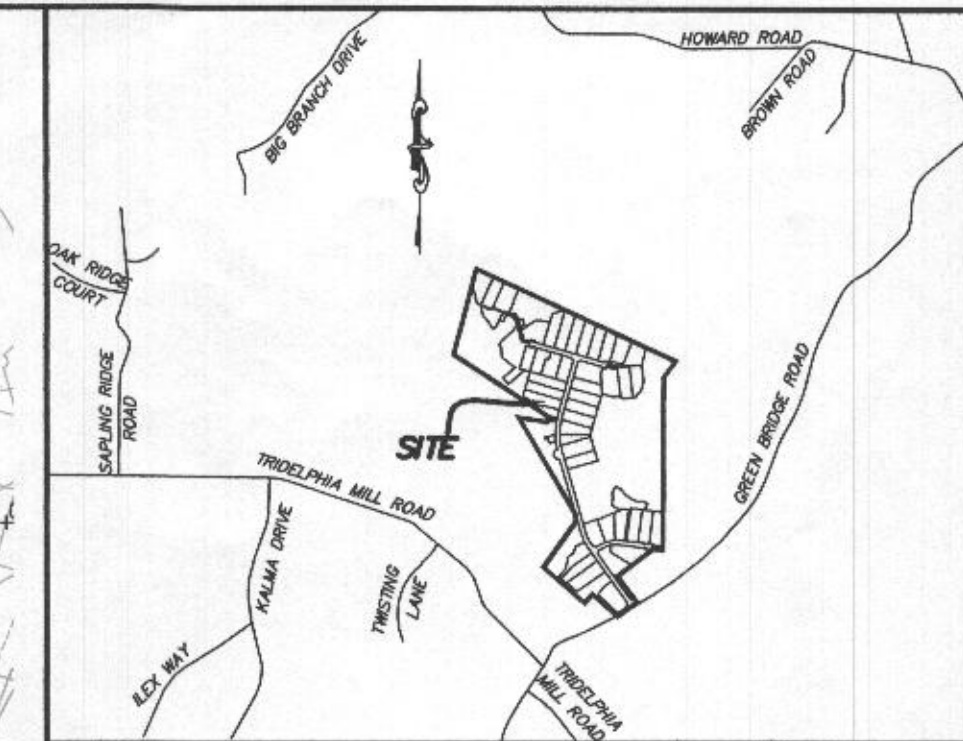
LEGEND:

- BRL BUILDING RESTRICTION LINE
T.W. WELL LOCATION
G.F. TOP OF WALL
B.F. GARAGE FLOOR
DW. BASEMENT FLOOR
DW. DRYWELL
P. PASSED PERC LOCATION
F. FAILED PERC LOCATION
S.D.A. SEWAGE DISPOSAL AREA
W.B.A. WELL BOX AREA
A.P.R. ADDITIONAL PRIVATE RESTRICTION AREA
P.T. PROPOSED TREE
P.T. PROPOSED TREE
S.D. SOIL DELINEATION LINE

WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 45 (TAG NO. HO-18-0051) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 45
WILLOWSHIRE
LIBER 18479, FOLIO 296
PLAT NO. 25504
ELECTION DISTRICT No. 5
HOWARD COUNTY, MARYLAND
ADDRESS: 6041 BRICKER ROAD
DAYTON, MARYLAND 21036

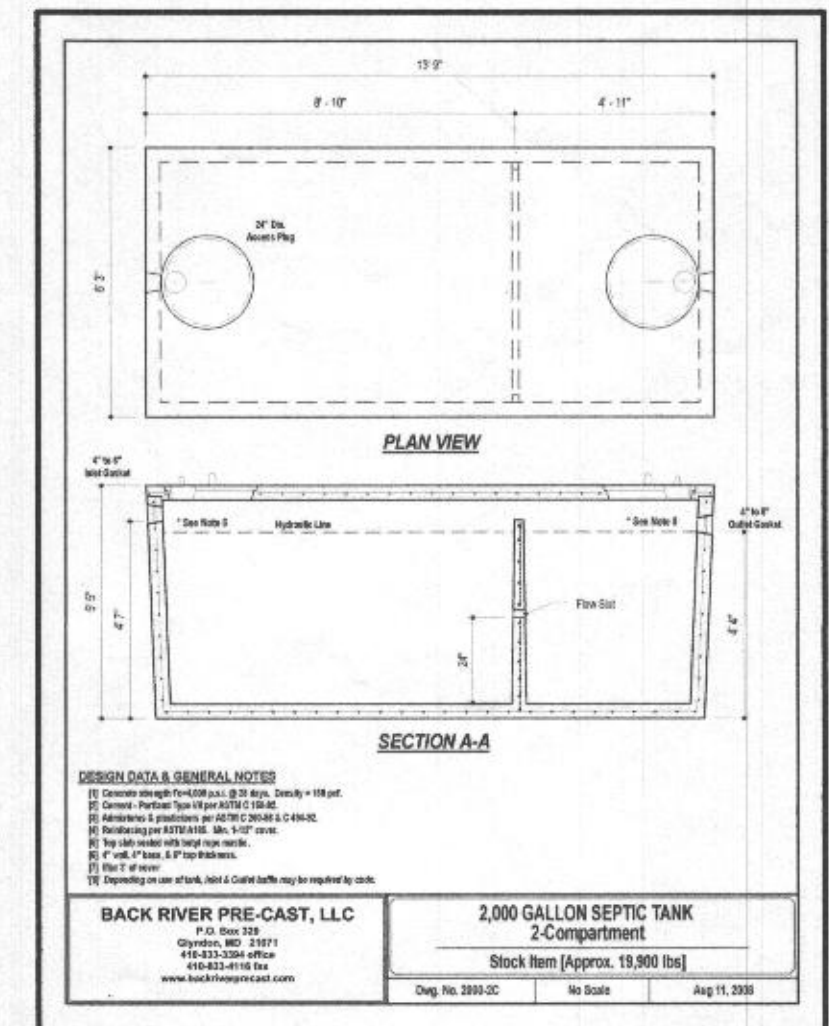


VICINITY MAP

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.
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- 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.



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ESE Consultants, Inc.
7164 Columbia Gateway Drive • Suite 230 • Columbia, MD 21046
T: 410-672-9105

DATE: 08/20/2021 SCALE: 1"= 30' FILE: OSDS LOT 45
CHK'D: M.J.B. JOB NO: 4520 DRAWN: R.C.K.

INITIAL TRENCH DATA:

BOTTOM MAX. DEPTH (8')

TRENCH 1 (T1): 31.75 L.F.

GROUND ABOVE = 490.40'

INV. IN = 487.90'

BOTTOM TRENCH = 482.40'

TRENCH 2 (T2): 31.75 L.F.

GROUND ABOVE = 488.80'

INV. IN = 485.30'

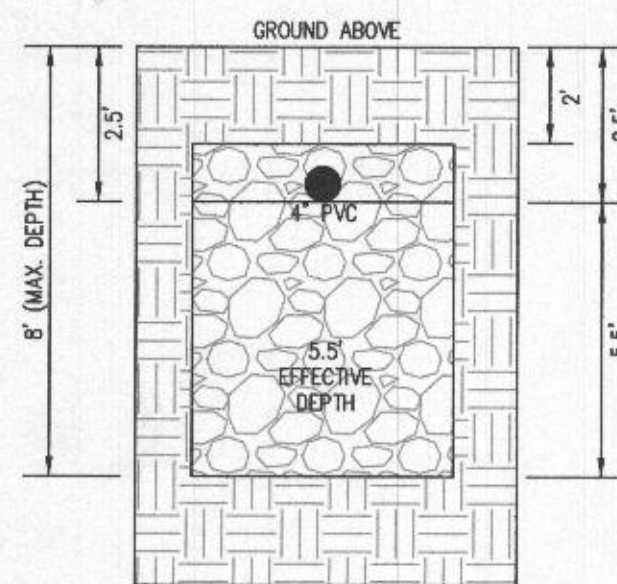
BOTTOM TRENCH = 480.80'

TRENCH 3 (T3): 31.75 L.F.

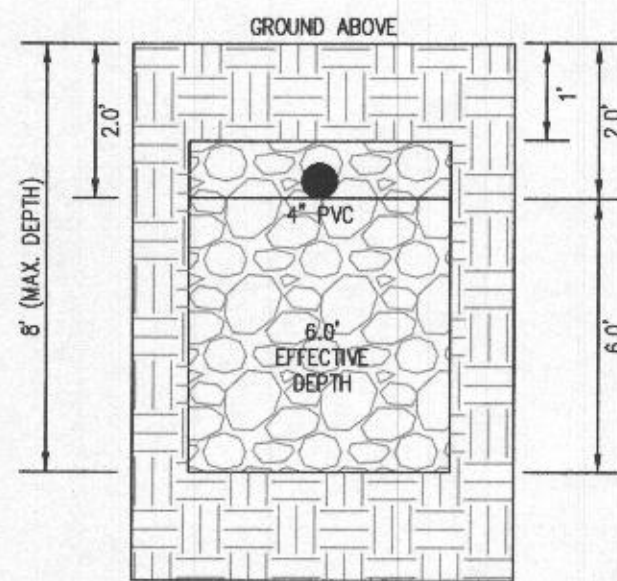
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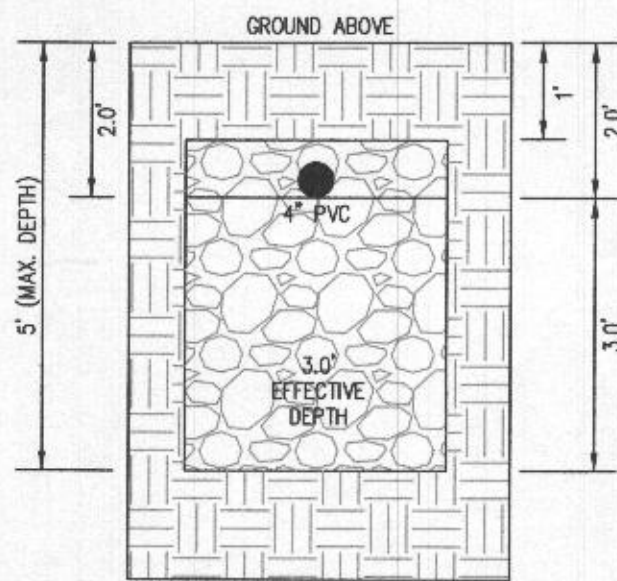
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(NOT TO SCALE)



1ST REPLACEMENT SYSTEM
TRENCH DETAIL (T4 AND T5)
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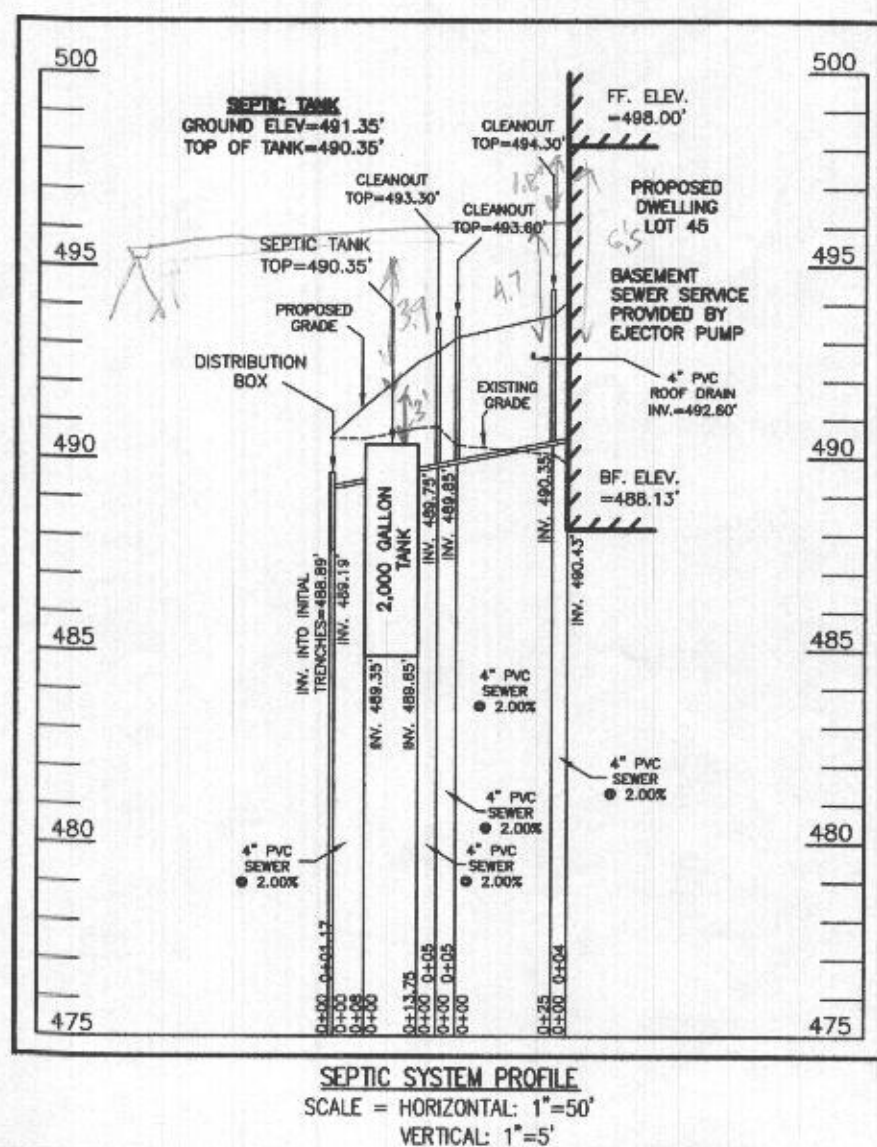
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ADDITIONAL BATH FINISHED LOWER LEVEL
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LUXURY OUTDOOR LIVING
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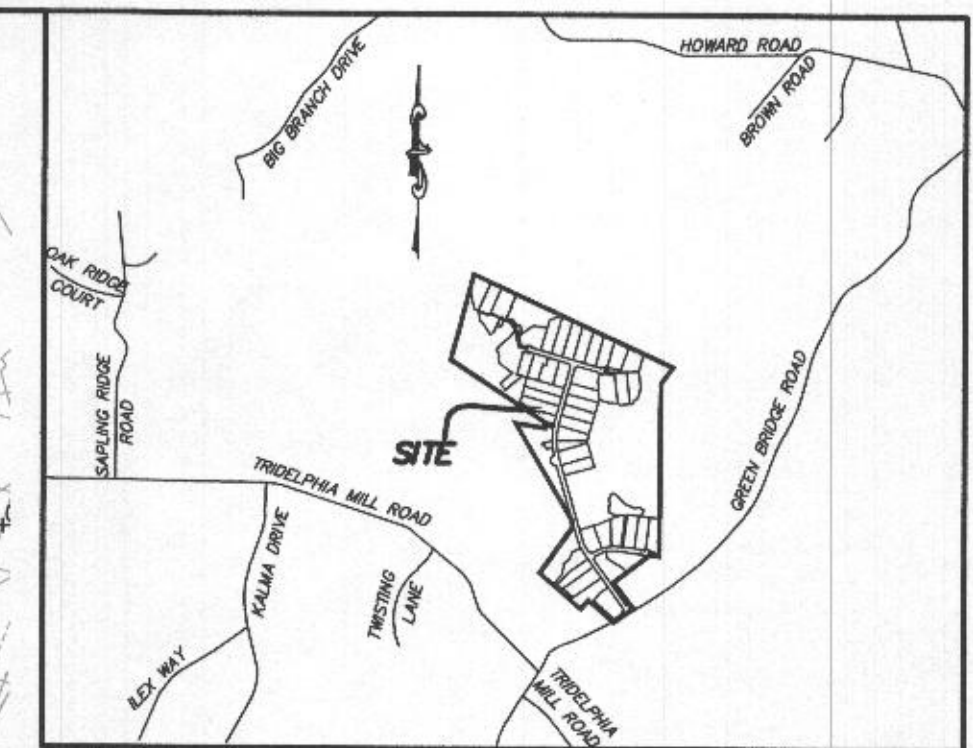
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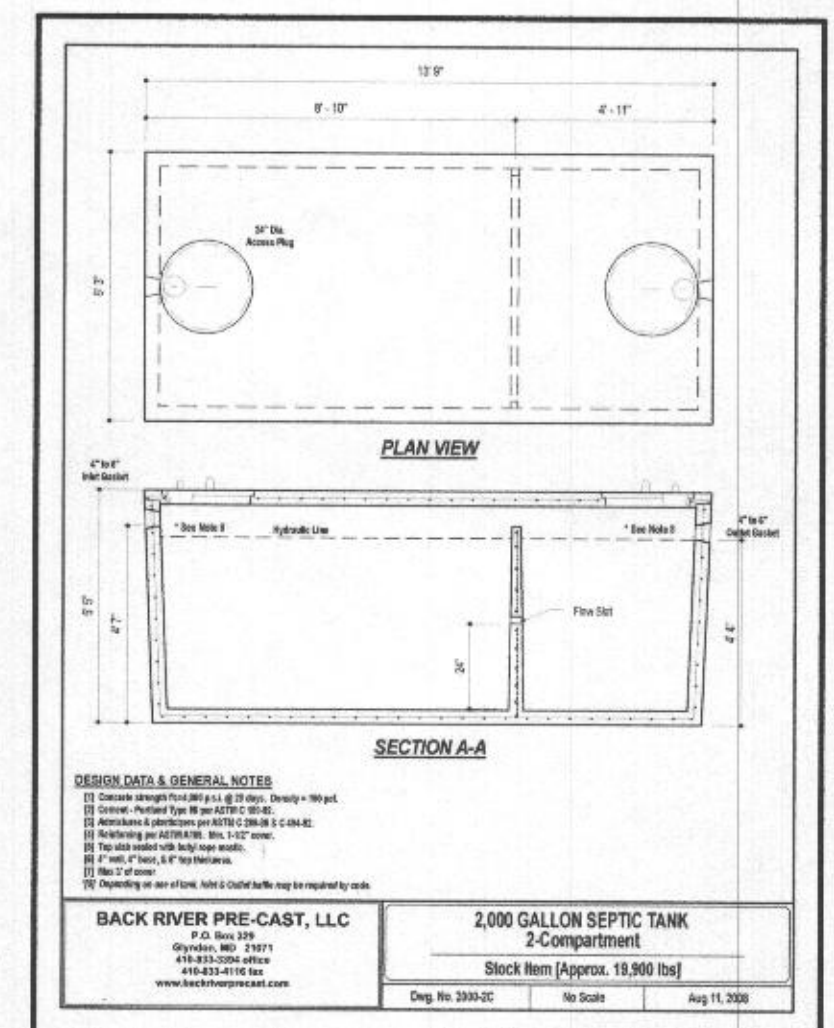


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