

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: 05/23/2022 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 571597

APPROVAL DATE: 07/19/2024 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 6046 BRICKER ROAD, DAYTON, MD 21036

SUBDIVISION: WILLOWSHIRE

LOT: 20

TAX ID:

05-603008

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>90</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>13</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.0</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 TWO (2) CLEANOUTS IN SHC, AS ILLUSTRATED.	

ISSUED BY: R BRICKER

ISSUE DATE: 05/23/2022 EXPIRATION DATE: 05/23/2023

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

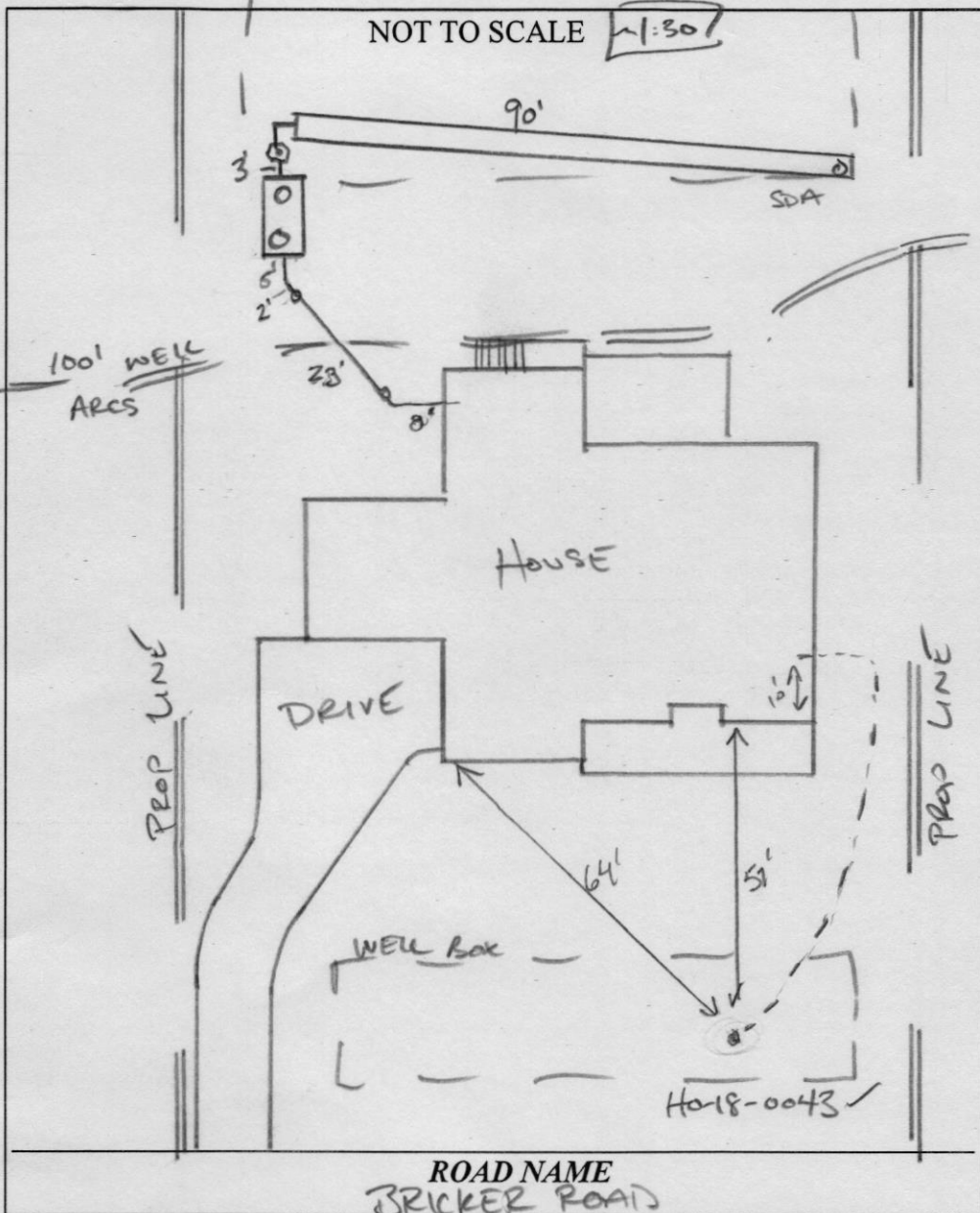
☐ ELECTRICAL PERMIT ISSUED ☒ N.A.

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		90
ABSORPTION AREA		270 SF + 5' SIDE WALL
DISTRIBUTION BOX LEVEL		N/A
DISTRIBUTION BOX BAFFLE		-
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BACKRIVER
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	4'
BAFFLES	YES
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	03/14/2022
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:

07/14/2022 TANK + SDA + TRENCH STAKED. CONFIRMED CONTINUITY OF 1x90' TR. Φ

INSTALLATION:

7/13/22 upon arrival tank hole being dug. Noticed 10' elevation at inlet end of tank. Told contractor need to raise this. They proposed load Beatty tank. OK to set as a w/ load beatty.

07/18/2022 D BOX SET. TRENCH DUG. SINGLE TR OK TO NOT HAVE SPEED LEVEL. Φ

FINAL INSPECTOR

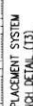
DATE OF APPROVAL

07/19/2022

I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328. EXPIRATION DATE 1/8/23.



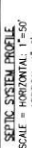
BOTTOM MAX. DEPTH (8')
 TRENCH 1 (11): 90 LF.
 GROUND ABOVE = 497.20'
 INV. IN = 494.70'
 BOTTOM TRENCH = 483.20'



SOILS LEGEND

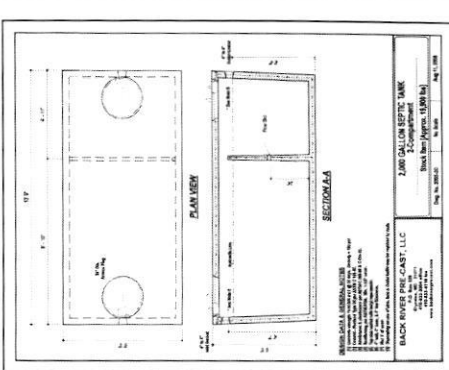
BUILDING RESTRICTION LINE
WELL LOCATION
TOP OF WALL
GARAGE FLOOR
BASEMENT FLOOR
PASSED PERC LOCATION
SEWAGE DISPOSAL AREA
WELL BOX AREA
PROPOSED THREE
PROPOSED THREE

PROPOSED INVERT AT FOUNDATION WALL: 496.46'

[illegible]

TAX MAP 27, GRID 18

1. ZZZZZ THESE ARE DISCOUNT A PRIVATE SERVICE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SERVICE IMPROVEMENTS OF ANY NATURE. THE PROPOSED SYSTEM SHALL BE DESIGNED TO PROVIDE ADEQUATE SYSTEM SHALL BECOME WELL AND VOID STORM CONNECTION TO A PUBLIC SERVICE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ANIMATES TO THE PROPOSED SYSTEM. THE PROPOSED SYSTEM SHALL BE A MODIFIED SYSTEM. THE PROPOSED SYSTEM SHALL NOT BE NECESSARY.
2. EXISTING WELLS, SPECIFIC SYSTEMS, AND SERVICE DISPOSAL AREAS WITHIN 100' OF THE PROPOSED SYSTEMS FOR SERVICE DISPOSAL AREAS HAVE BEEN SHOWN.
3. ANY CHANGES TO A PRIVATE SERVICE AREA SHALL REQUIRE A REVISED PERCOLATION CAPACITY PLAN.
4. BUILDING SETBACKS (BULL) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHALL BE "5" HAVE AN ACCURACY OF ±1.0 FOOT.
5. ANY CHANGES TO THE LOCATIONS OR DEPTHS OF ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HONORARY COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MUST BE ACQUIRED.
6. THE MAXIMUM EARTH COVER OVER THE "PAK" IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
7. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM LOTSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARLAND STATE DEPARTMENT OF THE ENVIRONMENT.
8. THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HONORARY COUNTY GIS AND A TOPOGRAPHIC SURVEY PREPARED BY BOEHLER ENGINEERING ON 06/25/2015.



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ESE Consultants, Inc.
6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046
T: 410-572-8105

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

WILLOWSHIRE

LOT 20

LIBER 18479, FOLIO 296
PLAT NO. 25504

ELECTION DISTRICT No. 5
HOWARD COUNTY, MARYLAND
ADDRESS: 6046 BRICKER ROAD
DANZON, MARYLAND 21036

HOUSE OPTIONS:

HOUSE TYPE: PARKHURST (CRAFTSMAN)

TWO CAR SIDE ENTRY GARAGE
DAYLIGHT BASEMENT
DAYLIGHT WINDOW/WELL IN BASEMENT
ADDITIONAL 2 CAR FRONT ENTRY GARAGE
LUXURY OUTDOOR LIVING

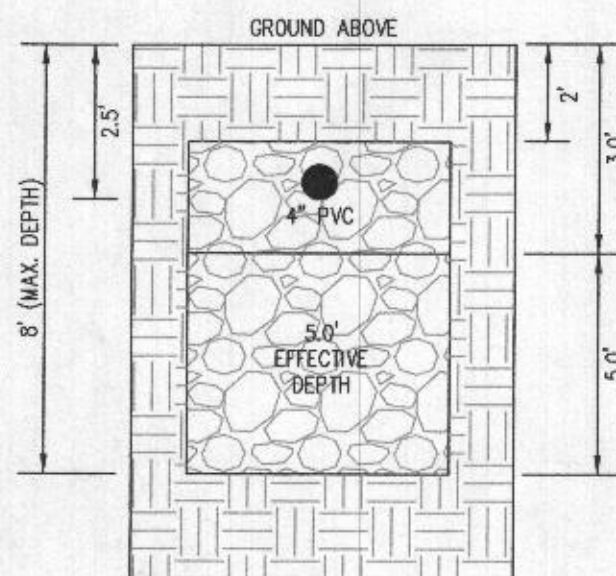
OPTION No. 012
OPTION No. 018
OPTION No. 543
OPTION No. 263019
OPTION No. 263165

INITIAL TRENCH DATA:

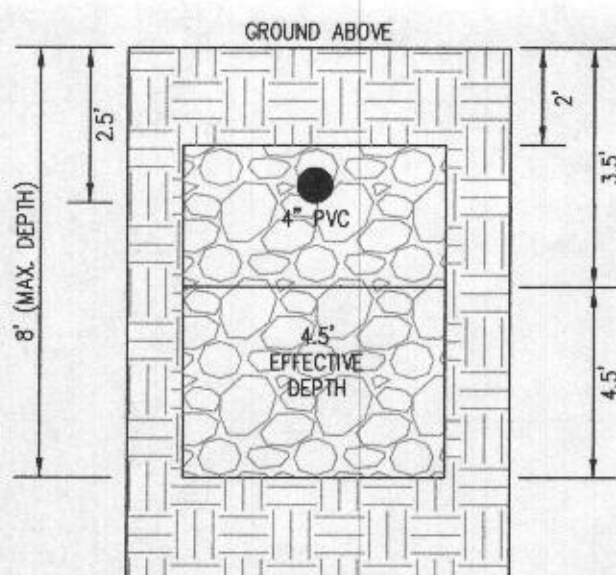
BOTTOM MAX. DEPTH (8')

TRENCH 1 (T1): 90 LF.

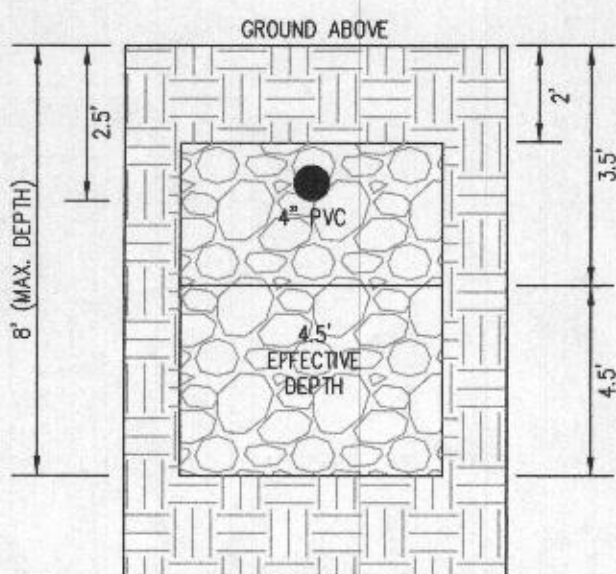
GROUND ABOVE = 497.20'
INV. IN = 494.70'
BOTTOM TRENCH = 489.20'



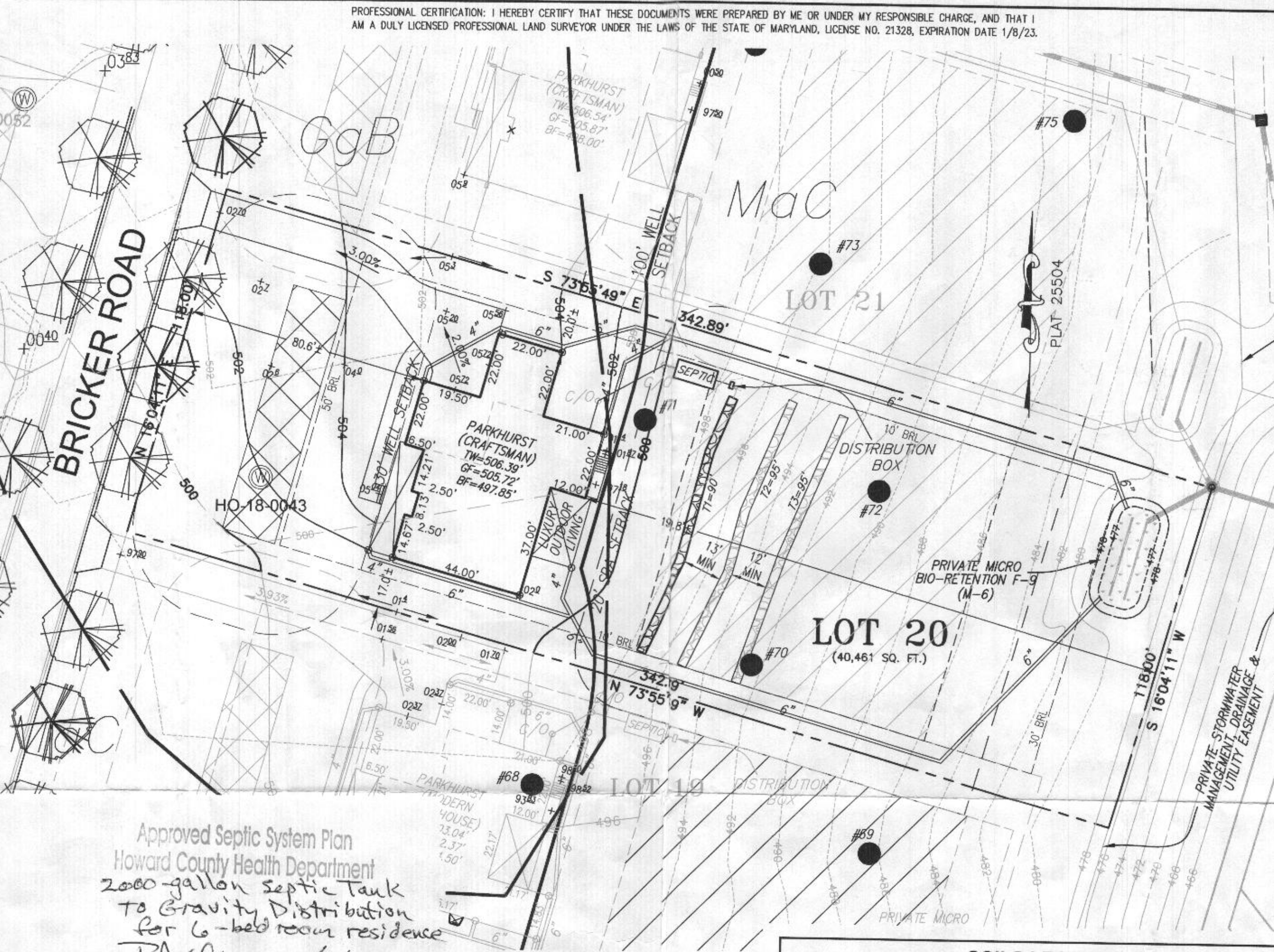
INITIAL SYSTEM
TRENCH DETAIL (T1)
(NOT TO SCALE)



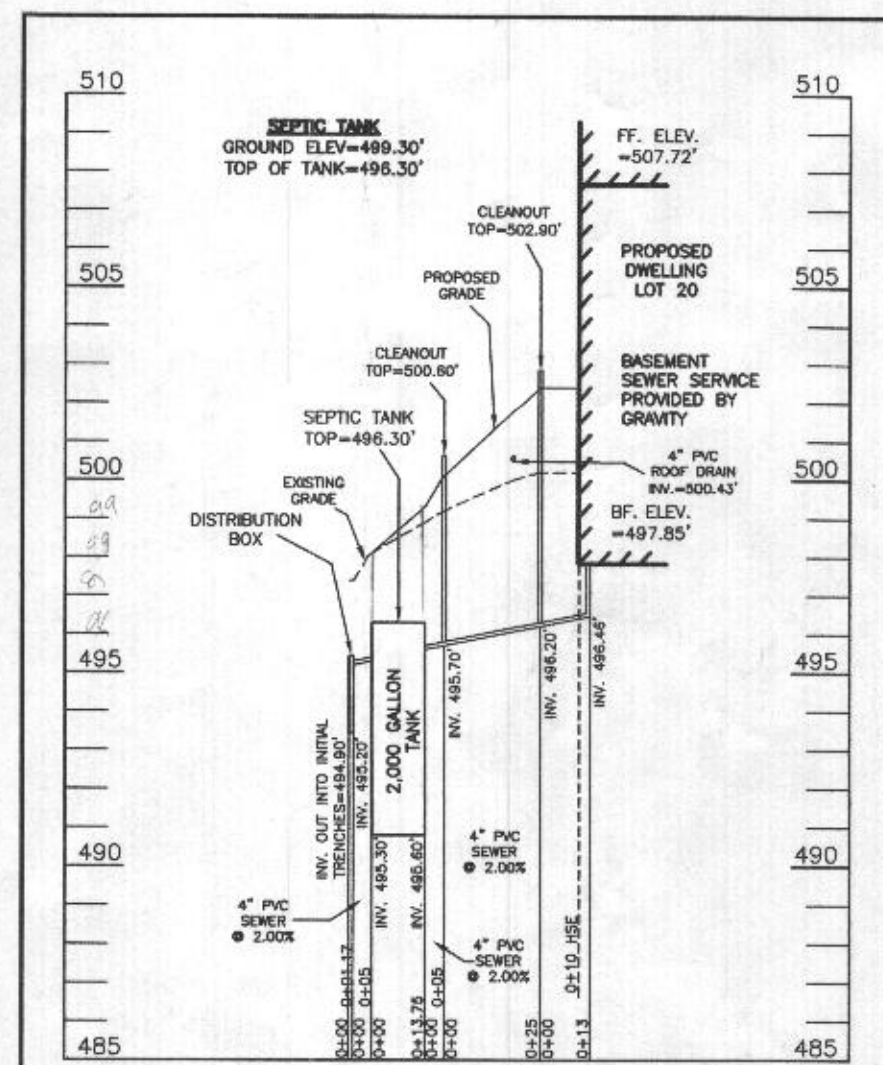
1ST REPLACEMENT SYSTEM
TRENCH DETAIL (T2)
(NOT TO SCALE)



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



Approved Septic System Plan
Howard County Health Department
2000-gallon Septic Tank
To Gravity Distribution
for 6-bed room residence
R. Bricker 2/17/2022
Signature Date



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

SEWAGE DISPOSAL SYSTEM DATA (6 BDRM):

- PROPOSED INVERT AT FOUNDATION WALL 96.46'
1. EX. GRADE OVER TANK: 499.30'
PROPOSED GRADE OVER TANK: 498.5
INVERT IN: 495.60' INVERT OUT: 430'
- DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 497.40
PROPOSED GRADE OVER TANK: 497.
INVERT IN: 495.20' INVERT OUT: 490'
- INITIAL TRENCH DESIGN (6 BDRM x 1 GPD/BDRM = 900 GPD)
900 GPD ÷ 1.2 APP. RATE = 750 S
USE 3" WIDE TRENCH WITH 66" GRABELOW PIPE
13' MIN. SPACING BETWEEN TRENCHES
750 SF ÷ 3" WIDTH = 250 LF x 0.3 SIDEWALL REDUCTION) = 90 LF MIN.
USE 1 90' LONG TRENCHES = 90 LF
- 1ST REPLACEMENT TRENCH DESIGN (ORM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 1.2 APP. RATE = 750 S
USE 3" WIDE TRENCH WITH 66" GRABELOW PIPE
12' MIN. SPACING BETWEEN TRENCHES
750 SF ÷ 3" WIDTH = 250 LF x 0.3 SIDEWALL REDUCTION) = 95 LF MIN.
USE 1 95' LONG TRENCHES = 95 LF
- 2ND REPLACEMENT TRENCH DESIGN (ORM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 1.2 APP. RATE = 750 S
USE 3" WIDE TRENCH WITH 66" GRABELOW PIPE
12' MIN. SPACING BETWEEN TRENCHES
750 SF ÷ 3" WIDTH = 250 LF x 0.3 SIDEWALL REDUCTION) = 95 LF MIN.
USE 1 95' LONG TRENCHES = 95 LF

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

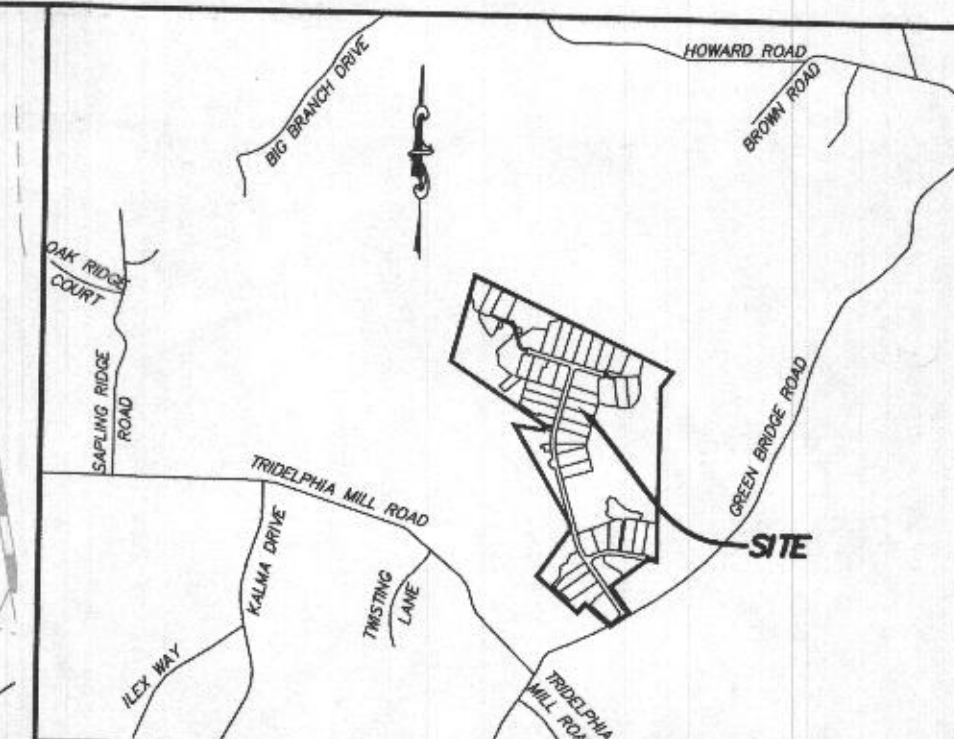
LEGEND:

- 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

WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 20 (TAG NO. HO-18-0043)
HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 20
WILLOWSHIRE
LIBER 18479, FOLIO 296
PLAT NO. 25504
ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND
ADDRESS: 6046 BRICKER ROAD
DAYTON, MARYLAND 21036

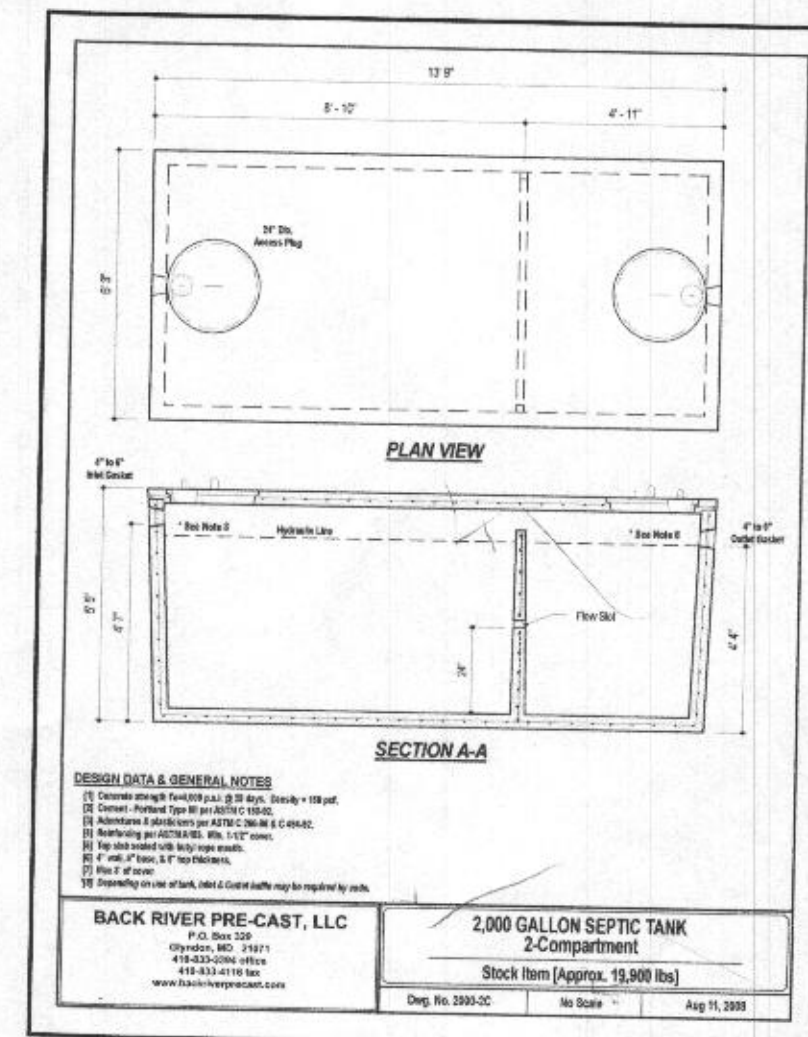


VICINITY MAP

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 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.



DESIGN DATA & GENERAL NOTES:

1. Owner: [Name]
2. Designer: [Name]
3. Date: [Date]
4. Project: [Name]
5. Location: [Address]
6. Scale: [Scale]
7. Sheet: [Sheet]
8. Total: [Total]

BACK RIVER PRE-CAST, LLC
P.O. Box 120
Glenwood, MD 21741
410-832-0200
www.backriverprecast.com

2,000 GALLON SEPTIC TANK
2-Compartment
Stock Item (Approx. 19,900 lbs)
Dep. No. 2000-02 No Scale Aug 11, 2008

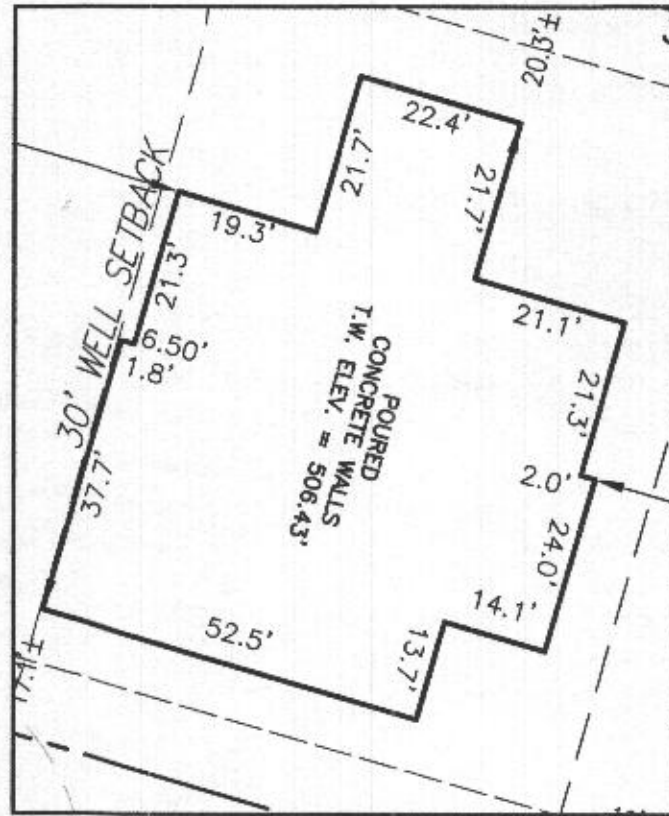
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6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046
T: 410-872-9105

DATE: 02/04/2022 SCALE: 1"= 30' FILE: OSDS LOT 20
CHK'D: M.J.B. JOB NO: 4520 DRAWN: T.B.O./R.C.K.

LEGEND:

BRL BUILDING RESTRICTION LINE
 (W) WELL LOCATION
 T.W. TOP OF WALL
 ELEV. ELEVATION
 [Hatched Box] SEWAGE DISPOSAL AREA
 [Hatched Box] WELL BOX AREA



HOUSE ENLARGEMENT
 NOT TO SCALE

WELL NUMBER: HO-18-0043
 ADDRESS: 6046 BRICKER ROAD
 DAYTON, MD 21036
 PERMIT NO.: B22000594

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

BRICKER ROAD

N 16°04'11" E 118.00'

HO-18-0043

HO-18-0042

30' WELL SETBACK

POURED CONCRETE WALLS T.W. ELEV. = 506.43'

S 73°55'49" E 342.89'

N 73°55'49" W 342.89'

LOT 21

LOT 20
 (40,461 SQ. FT.)

LOT 19

PLAT 25504

Wall Check OK
 7-5-22

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 04/30/22
 MD. LIC NO. DATE

WALLCHECK
 LOT 20
 WILLOWSHIRE
 LIBER 18479, FOLIO 296
 PLAT NO. 25504
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

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 T: 410-872-9105

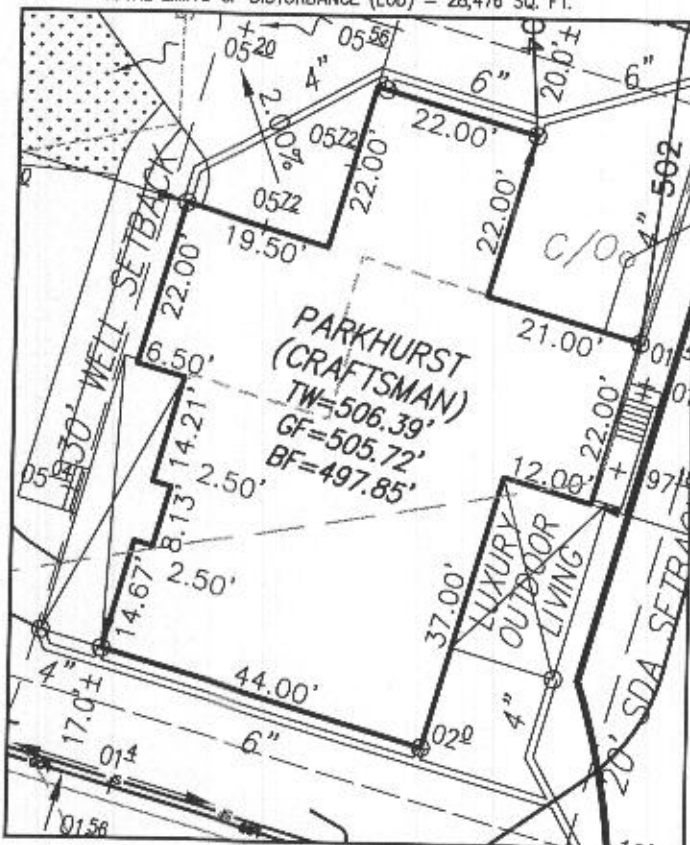
DATE: 04/30/2022 SCALE: 1" = 40' FILE: WC LOT 20
 CHK'D: M.J.B. JOB NO: 4520 DRAWN: V.X.P.

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.

LEGEND:

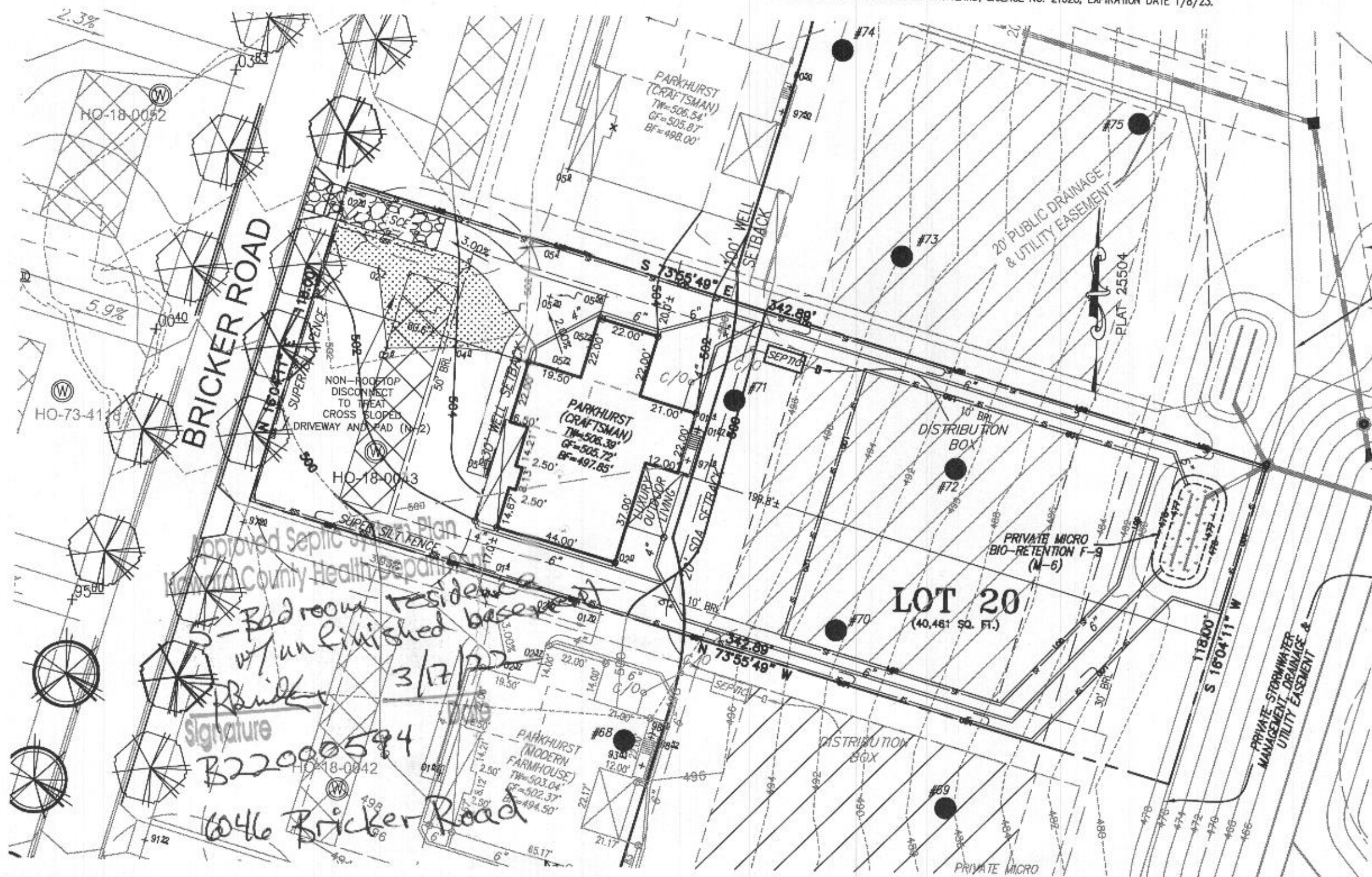
- BRL BUILDING RESTRICTION LINE
- WELL LOCATION
- T.W. TOP OF WALL
- G.F. GARAGE FLOOR
- B.F. BASEMENT FLOOR
- PASSED PERC LOCATION
- SEWAGE DISPOSAL AREA
- WELL BOX AREA
- SILT FENCE
- SUPER SILT FENCE
- LIMITS OF DISTURBANCE
- PROPOSED TREE
- PROPOSED TREE
- SCE STONE CONSTRUCTION ENTRANCE

NOTE:
TOTAL LIMITS OF DISTURBANCE (LOD) = 28,476 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.



Approved Septic System Plan
Howard County Health Department
3/17/22
Signature
B22000584
6046 Bricker Road

HOUSE TYPE: PARKHURST (CRAFTSMAN)

TWO CAR SIDE ENTRY GARAGE
DAYLIGHT BASEMENT
DAYLIGHT WINDOW/WELL IN BASEMENT
ADDITIONAL 2 CAR FRONT ENTRY GARAGE
LUXURY OUTDOOR LIVING

OPTION No. 012
OPTION No. 018
OPTION No. 543
OPTION No. 263019
OPTION No. 263165

WELL NUMBER: HO-18-0043

ADDRESS: 6046 BRICKER ROAD
DAYTON, MD 21036

PERMIT PLOT PLAN
LOT 20
WILLOWSHIRE

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

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

DATE: 01/21/2022 SCALE: 1" = 40' FILE: PP LOT 20 - PARKHURST CRAFTS.
CHK'D: M.J.B. JOB NO: 4520 DRAWN: T.B.O./R.C.K.

