

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

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

RECEIPT DATE: 5-24-22 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 571863

APPROVAL DATE: 6/22/22 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 1433 HERITAGE RIDGE ROAD, WOODBINE, MD 21797

SUBDIVISION: LINDEN GROVE, PHASE 2 LOT: 28 TAX ID: 04-603250

CONTRACTOR: CHAVIS ENTERPRISES & SEPTIC SERVICES, LLC EMAIL: Ryan@chavisenterprises.com

CONTRACTOR ADDRESS: 23 EAST ELLENDALE, BELL 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)381-3271

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: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>158</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 AT LEAST TWO CLEANOUTS IN SHC.	

ISSUED BY: R BRICKER ISSUE DATE: _____ EXPIRATION DATE: 5-24-23

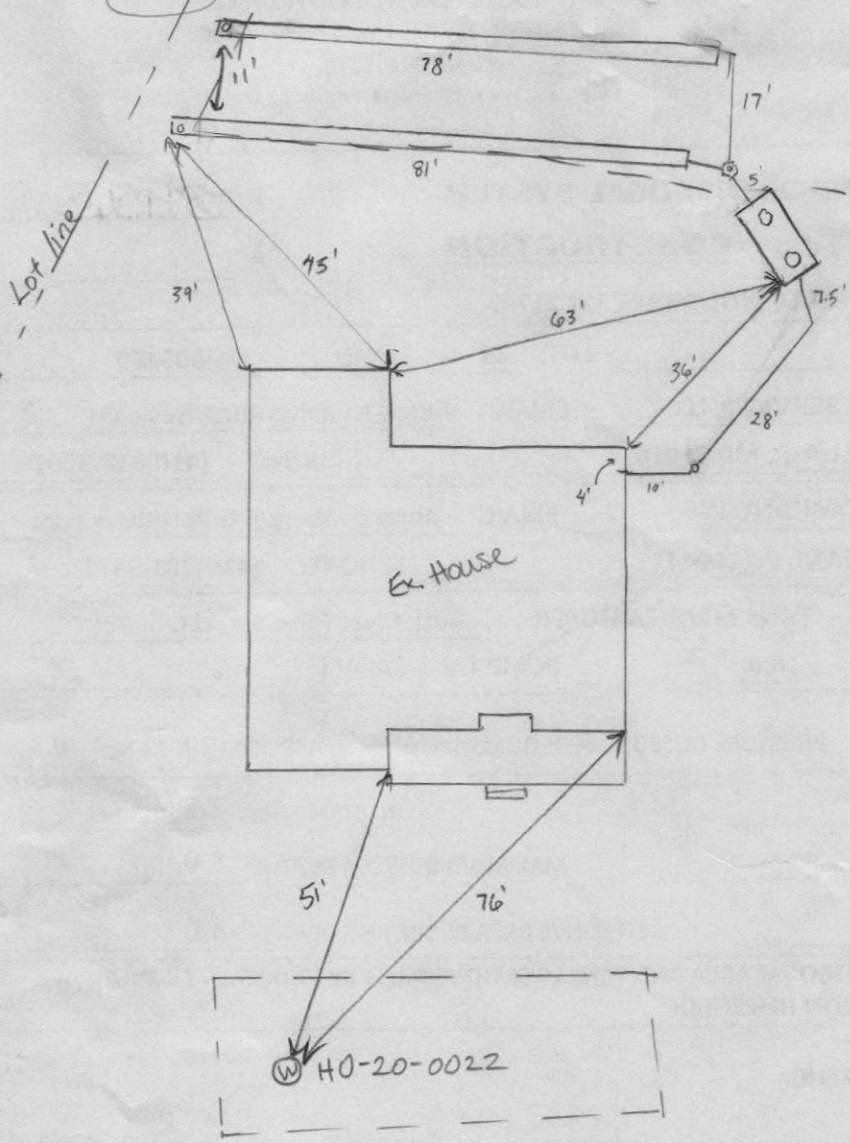
- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- 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.

1433 Heritage Ridge Rd

NOT TO SCALE

1" = 4' 30"



ROAD NAME
Heritage Ridge Rd

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2.5'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		159'
ABSORPTION AREA		477 sq ft + sidewalk
DISTRIBUTION BOX LEVEL		speedy
DISTRIBUTION BOX BAFFLE		cement
DISTRIBUTION BOX PORT		PVC

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	yes
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	top
TANK LID DEPTH	2.5'-1'
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:

6/8/22 SDA and tank location not staked. (S) 6/16/22 2x79' trenches staked out on contour according to plan. OK to straighten trenches. Sufficient fall to tank. (S)

INSTALLATION:

6/17/22 Sk and tank set. Reinsp for baffles. (S) 6/21/22 D-box set and 1x81' trench installed. Baffles installed. (S) 6/22/22 Second trench complete, d-box leveled. (S)

FINAL INSPECTOR

Arcan Thomas

DATE OF APPROVAL

6/22/22

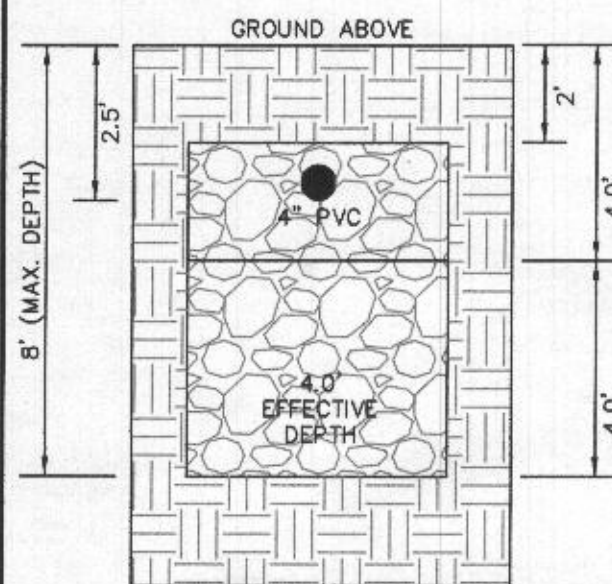
HOUSE OPTIONS:

HOUSE TYPE: PARKHURST (CRAFTSMAN)
 TWO CAR SIDE ENTRY GARAGE
 WALK-OUT BASEMENT
 WET BAR ROUGH-IN
 LUXURY WALK-OUT COVERED DECK
 DOUBLE WIDE DRIVEWAY TAIL

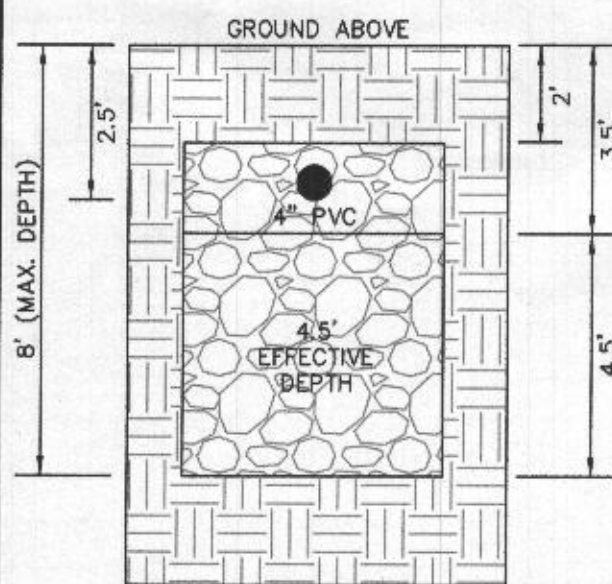
OPTION No. 012
 OPTION No. 017
 OPTION No. 048246
 OPTION No. 263169
 OPTION No. 851

INITIAL TRENCH DATA:

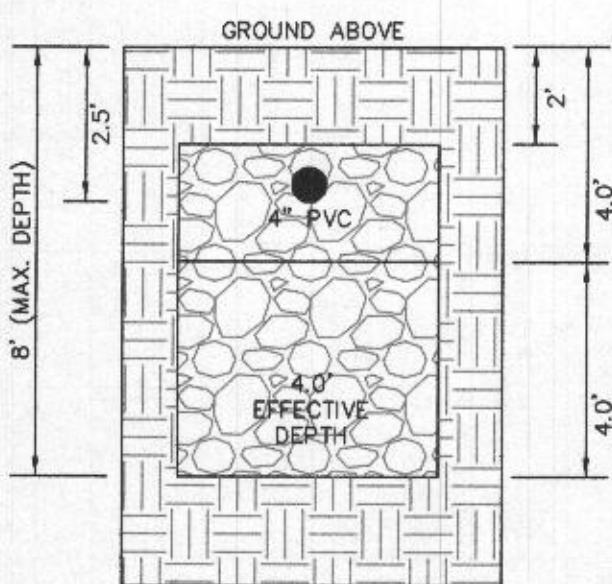
BOTTOM MAX. DEPTH (8.0')
TRENCH 1 (T1): 78.75 L.F.
 GROUND ABOVE = 561.84'
 INV. IN = 559.44'
 BOTTOM TRENCH = 553.84'
TRENCH 2 (T2): 78.75 L.F.
 GROUND ABOVE = 561.00'
 INV. IN = 558.50'
 BOTTOM TRENCH = 553.00'



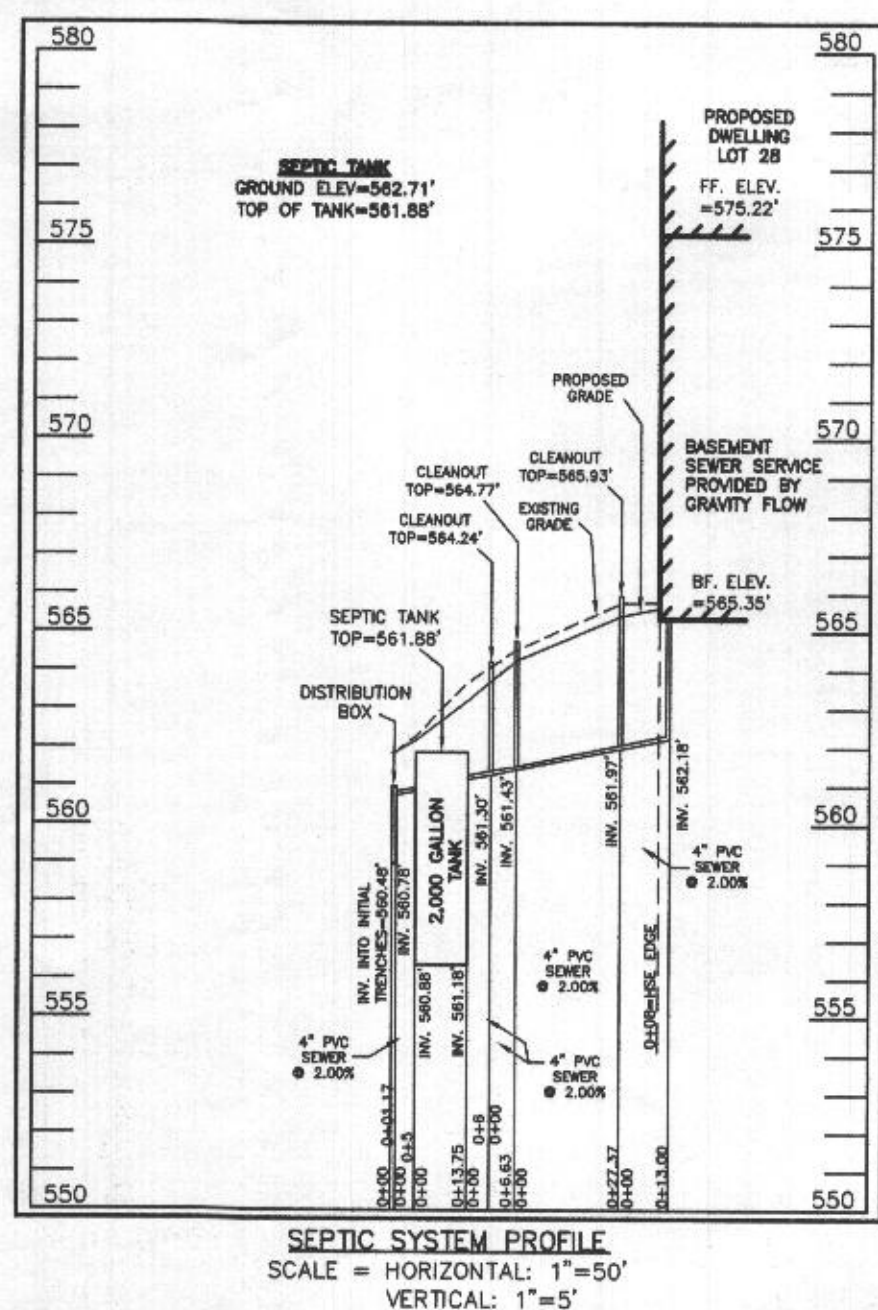
INITIAL SYSTEM
 TRENCH DETAIL (T1) THRU (T2)
 (NOT TO SCALE)



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



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



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

- LEGEND:**
- BRL BUILDING RESTRICTION LINE
 - WELL LOCATION
 - TOP OF WALL
 - C.F. GARAGE FLOOR
 - B.F. BASEMENT FLOOR
 - PASSSED PERC LOCATION
 - FAILED PERC LOCATION
 - SEWAGE DISPOSAL AREA
 - WELL BOX AREA
 - PROPOSED TREE
 - PROPOSED TREE
 - PROPOSED TREE

SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: 562.18'
- EX. GRADE OVER TANK: 563.01'
 PROPOSED GRADE OVER TANK: 562.71'
 INVERT IN: 561.18' INVERT OUT: 560.88'
 - DISTRIBUTION BOX
 EXISTING GRADE OVER TANK: 561.89'
 PROPOSED GRADE OVER TANK: 561.89'
 INVERT IN: 560.78' INVERT OUT: 560.48'
 - INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
 900 GPD + 0.8 APP. RATE = 1,125 SF
 USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
 12' MIN. SPACING BETWEEN TRENCH EDGES
 1,125 SF x 3' WIDTH = 375 LF x 0.42 (SIDEWALL REDUCION) = 157.50 LF MIN.
USE 2 78.75' LONG TRENCHES = 157.50 LF
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SOILS LEGEND

SOIL	NAME	CLASS	Kw
Brd	BRINKLOW CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	B	.20
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	.20
GmA	GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	C	.37
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	.37
GmC	GLENVILLE-SILT LOAMS, 8 TO 15 PERCENT SLOPES	C	.37
MnC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.24

- NOTES:**
- ** HYDRIC SOILS AND / OR CONTAINS HYDRIC INCLUSIONS
 - *** MAY CONTAIN HYDRIC INCLUSIONS
 - *** DENOTES ERODIBLE SOILS

WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 28 (TAG NO. HO-20-0022) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

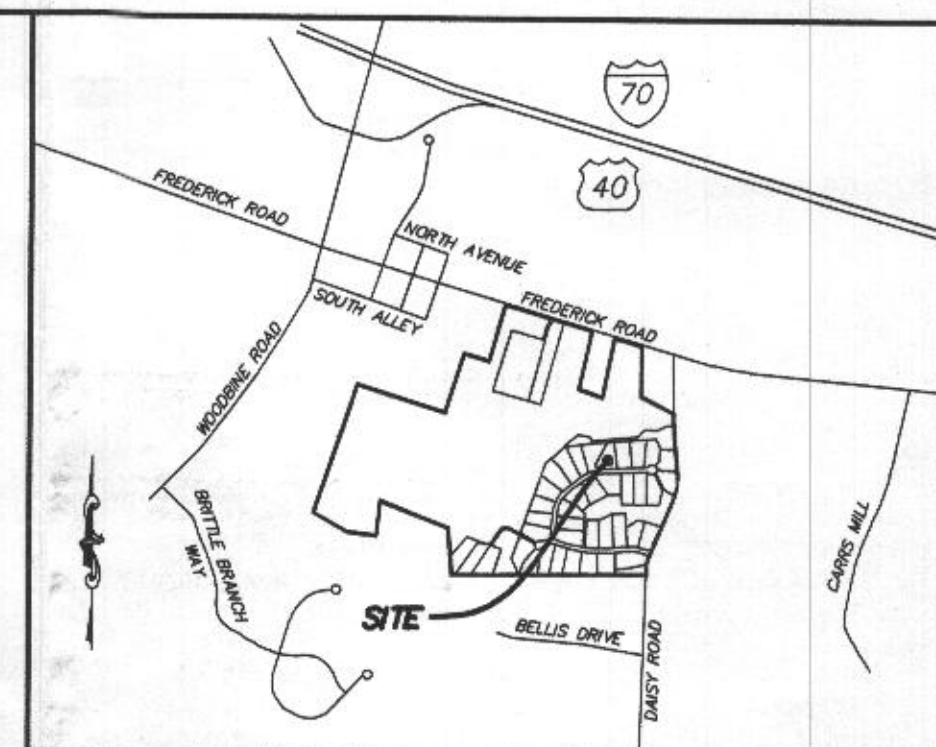
ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 28
LINDEN GROVE
 LIBER 15899, FOLIO 246
 PLAT NO. 25722
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND
 ADDRESS: 1433 HERITAGE RIDGE ROAD
 WOODBINE, MARYLAND 21797

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

DATE: 03/16/2022 SCALE: 1"= 30' FILE: OSDS LOT 28
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.

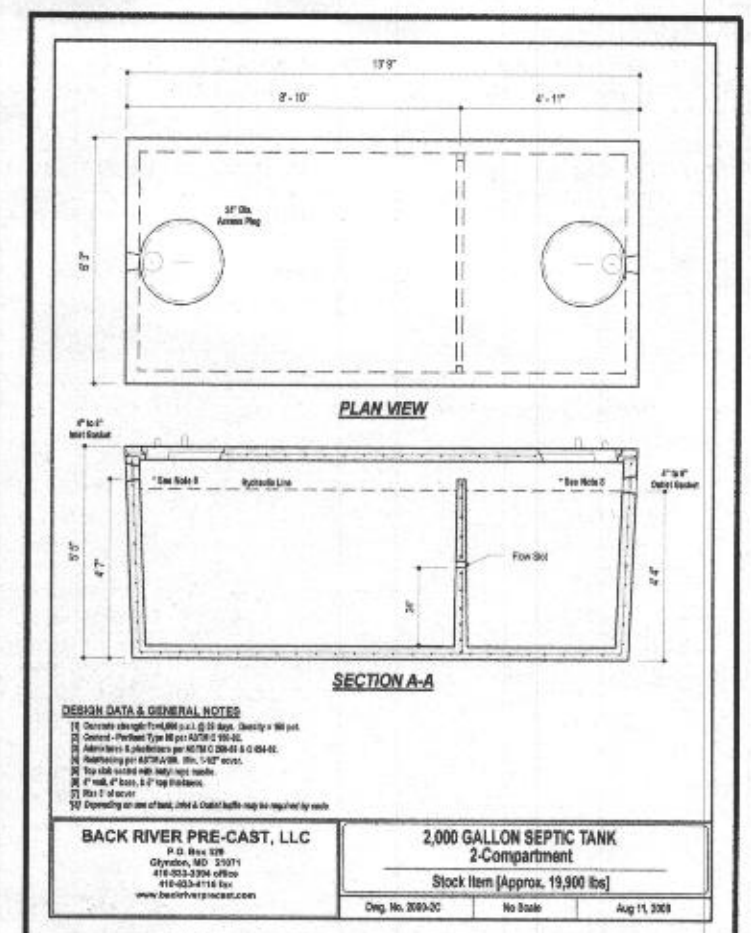
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/23.



VICINITY MAP
 1" = 1000'

GENERAL NOTES:


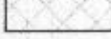
- THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION 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, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY FISHER, COLLINS AND CARTER, INC.



BACK RIVER PRE-CAST, LLC
 2,000 GALLON SEPTIC TANK
 2 Compartment
 Stock Item (Approx. 19,000 lbs)
 No. 1000
 No. 1000
 No. 1000

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LEGEND:

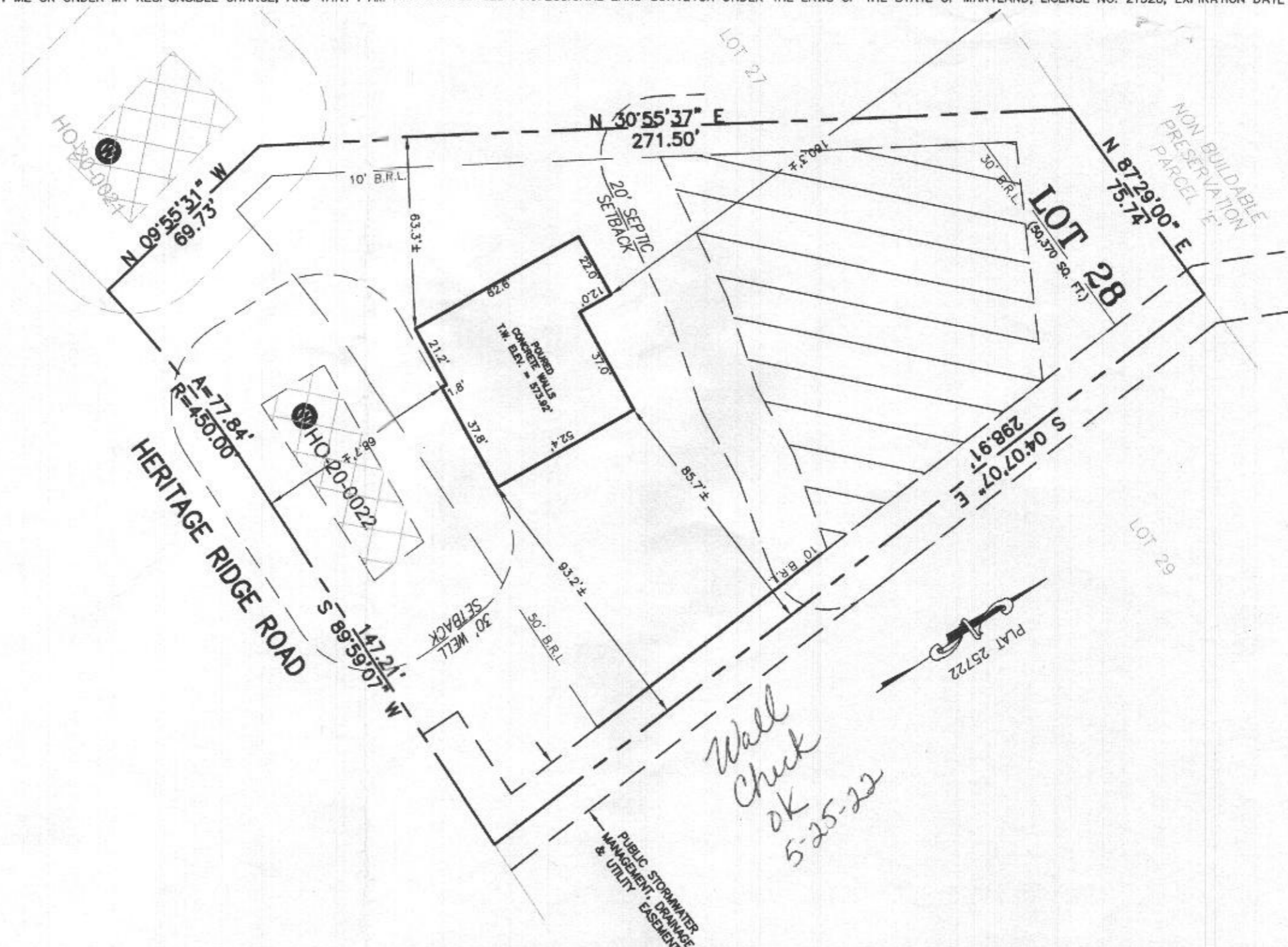
- BRL BUILDING RESTRICTION LINE
- (W) WELL LOCATION
- T.W. TOP OF WALL
- ELEV. ELEVATION
-  SEWAGE DISPOSAL AREA
-  WELL BOX AREA



HOUSE ENLARGEMENT
NOT TO SCALE

WELL NUMBER: HO-20-0022
 ADDRESS: 1433 HERITAGE RIDGE ROAD
 WOODBINE, MD 21797
 PERMIT NO.: B21002812

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.

Michael Joe Boyce 21328 04/21/22
 SIGNATURE: MICHAEL JOE BOYCE MD. LIC NO. DATE

WALLCHECK
 LOT 28
LINDEN GROVE
 LIBER 15899, FOLIO 246
 PLAT NO. 25722
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND

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 T: 410-872-9105

DATE: 04/21/2022 SCALE: 1" = 40' FILE: WC LOT 28
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.

WS-APP-22-00188



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.

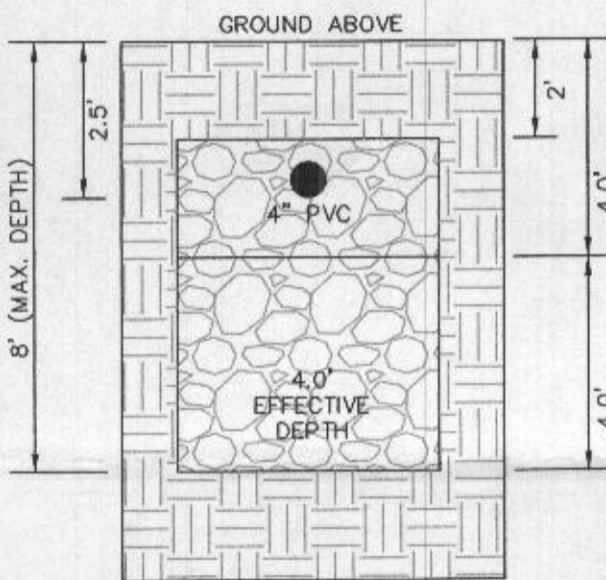
HOUSE OPTIONS:

- HOUSE TYPE: PARKHURST (CRAFTSMAN)
 TWO CAR SIDE ENTRY GARAGE
 WALK-OUT BASEMENT
 WET BAR ROUGH-IN
 LUXURY WALK-OUT COVERED DECK
 DOUBLE WIDE DRIVEWAY TAIL

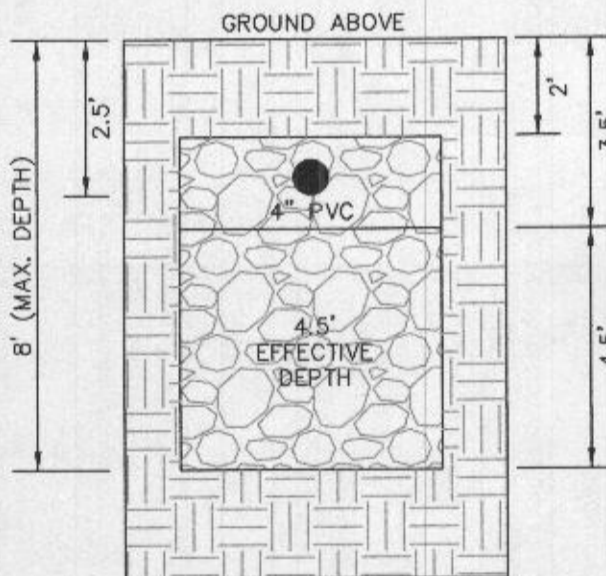
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 OPTION No. 048246
 OPTION No. 263169
 OPTION No. 851

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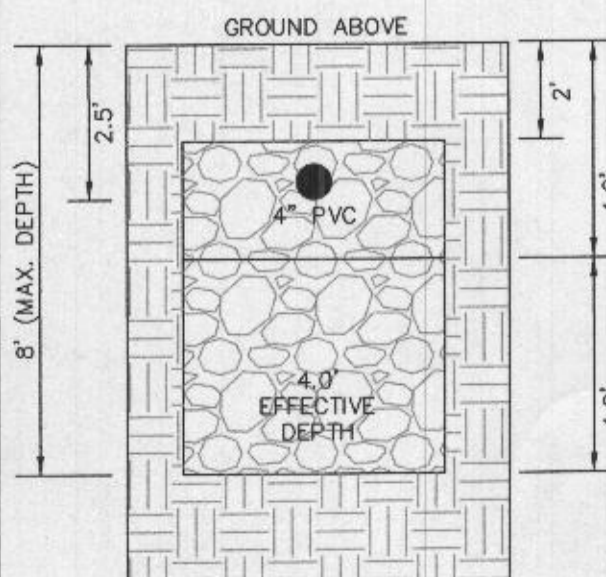
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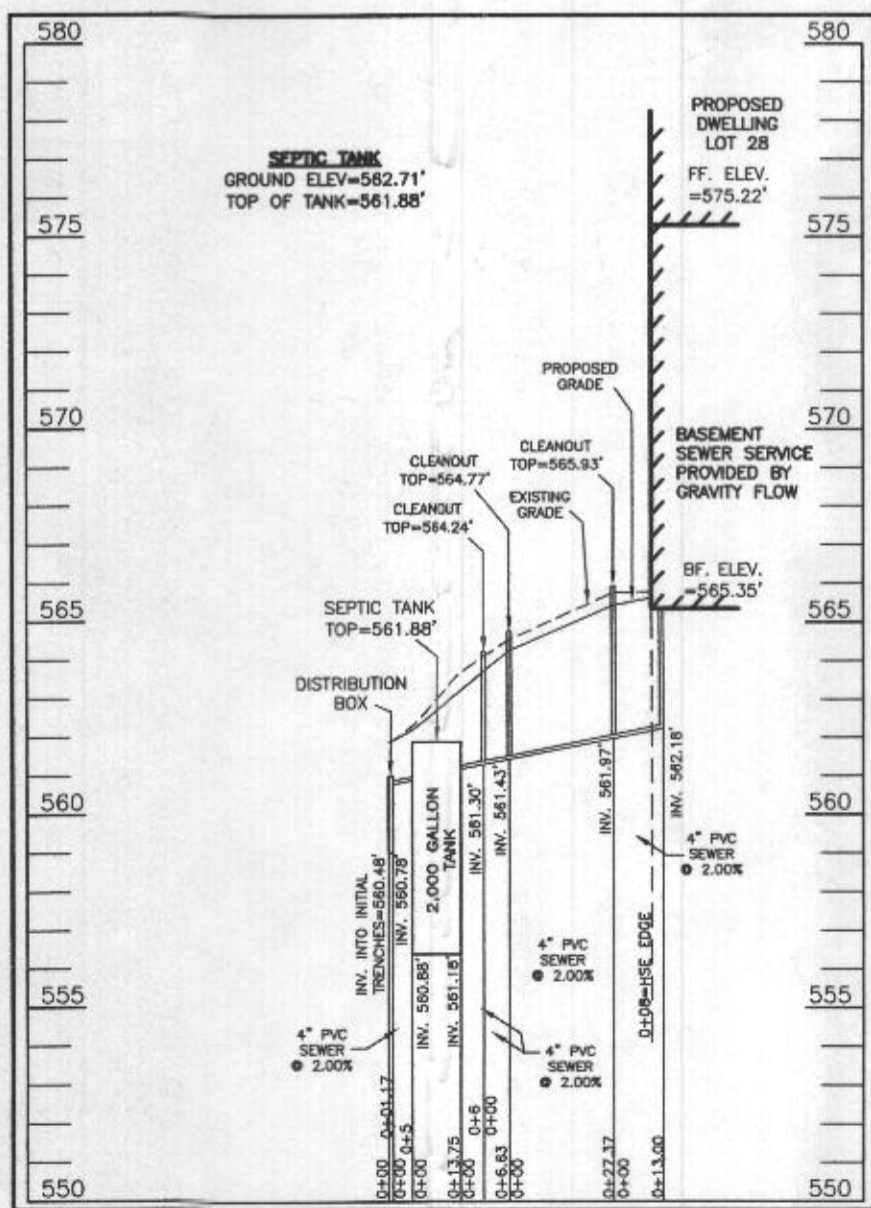
INITIAL SYSTEM TRENCH DETAIL (T1) THRU (T2) (NOT TO SCALE)



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



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



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

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
- ▨ SEWAGE DISPOSAL AREA
- ▧ WELL BOX AREA
- PROPOSED TREE
- PROPOSED TREE

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Approved Septic System Plan
 Howard County Health Department
 2000-gal Septic Tank
 to Gravity Distribution
 for 6-bedroom residence
 Builders 5/10/2022
 Signature Date



SOILS LEGEND

SOIL	NAME	CLASS	KW
B/D	BRINKLOW CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	B	.20
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	.20
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*GnC	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	***.37
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WELL LOCATION CERTIFICATION:

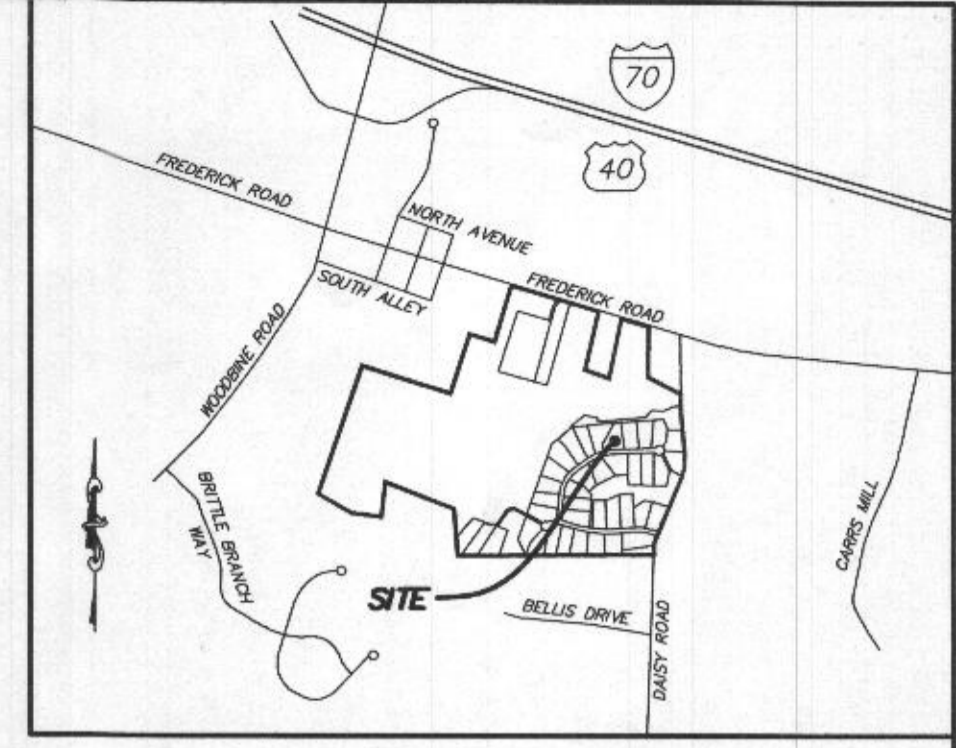
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 PLAT NO. 25722
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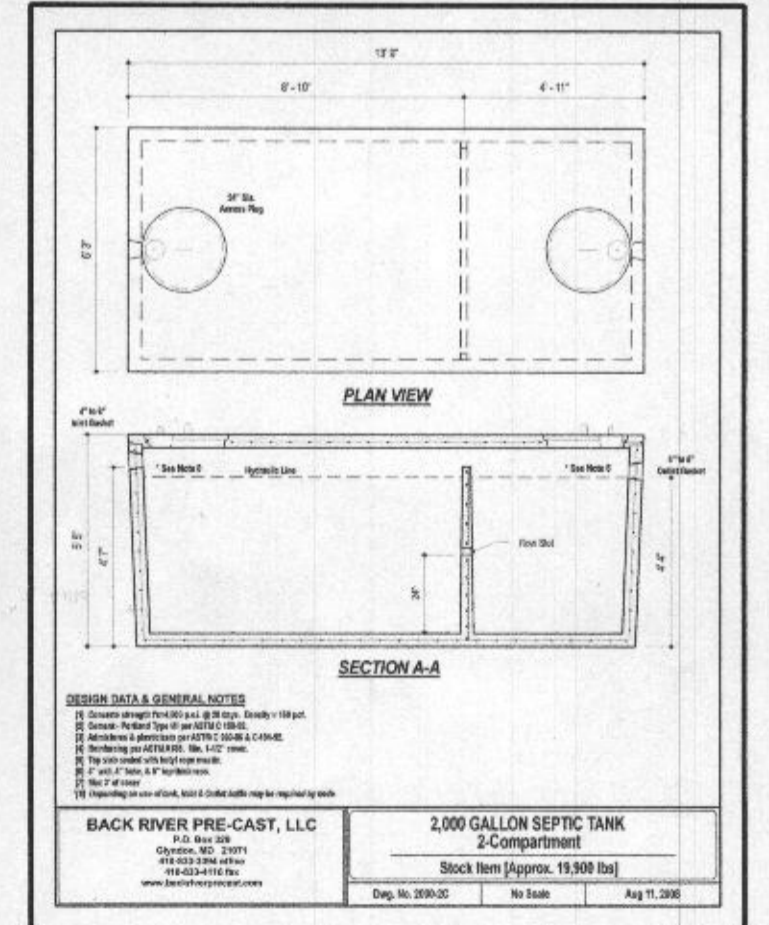
DATE: 03/16/2022 SCALE: 1"= 30' FILE: OSDS LOT 28
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.



VICINITY MAP
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GENERAL NOTES:

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- 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, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY FISHER, COLLINS AND CARTER, INC.



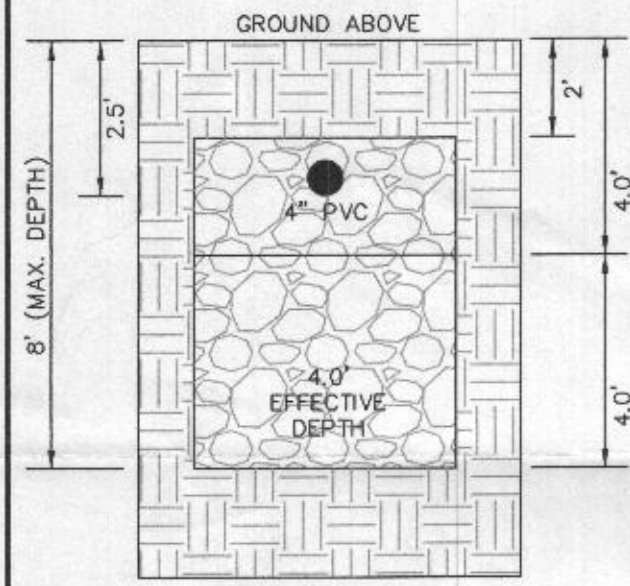
BACK RIVER PRE-CAST, LLC
 2,000 GALLON SEPTIC TANK
 2-Compartment
 Stock Item # (approx.) 15,500 (Std)
 Drawn: M.J.B. No Scale Aug 11, 2008

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.

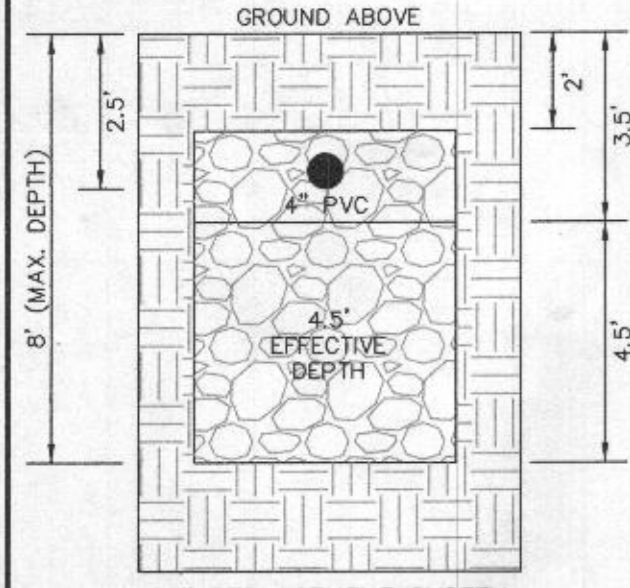
HOUSE OPTIONS:
 HOUSE TYPE: PARKHURST (CRAFTSMAN)
 TWO CAR SIDE ENTRY GARAGE
 WALK-OUT BASEMENT
 WET BAR ROUGH-IN
 LUXURY WALK-OUT COVERED DECK
 DOUBLE WIDE DRIVEWAY TAIL

OPTION No. 012
 OPTION No. 017
 OPTION No. 048246
 OPTION No. 263169
 OPTION No. 851

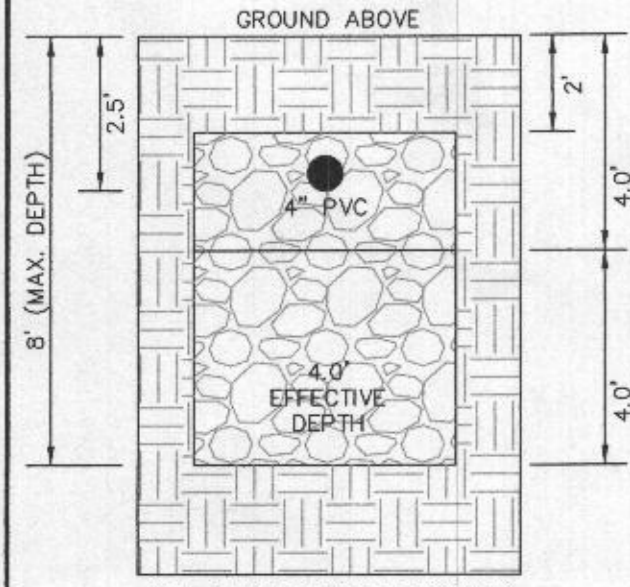
INITIAL TRENCH DATA:
 BOTTOM MAX. DEPTH (8.0')
TRENCH 1 (T1): 78.75' L.F.
 GROUND ABOVE = 561.84'
 INV. IN = 559.44'
 BOTTOM TRENCH = 553.84'
TRENCH 2 (T2): 78.75' L.F.
 GROUND ABOVE = 561.00'
 INV. IN = 558.50'
 BOTTOM TRENCH = 553.00'



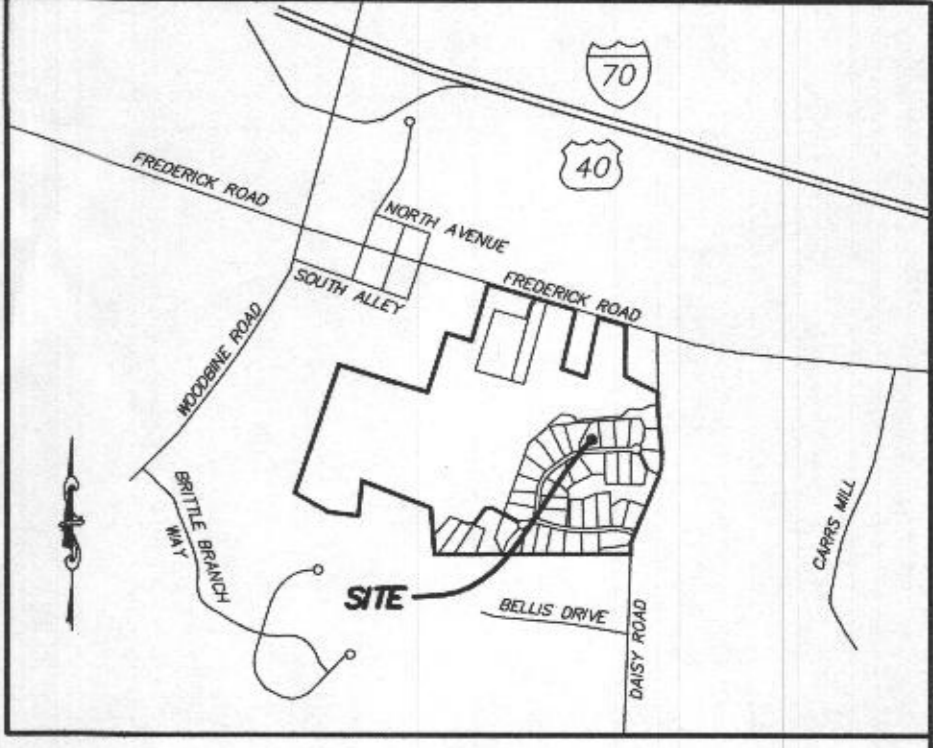
INITIAL SYSTEM TRENCH DETAIL (T1) THRU (T2) (NOT TO SCALE)



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



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



VICINITY MAP
 1" = 1000'

- 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, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY FISHER, COLLINS AND CARTER, INC.

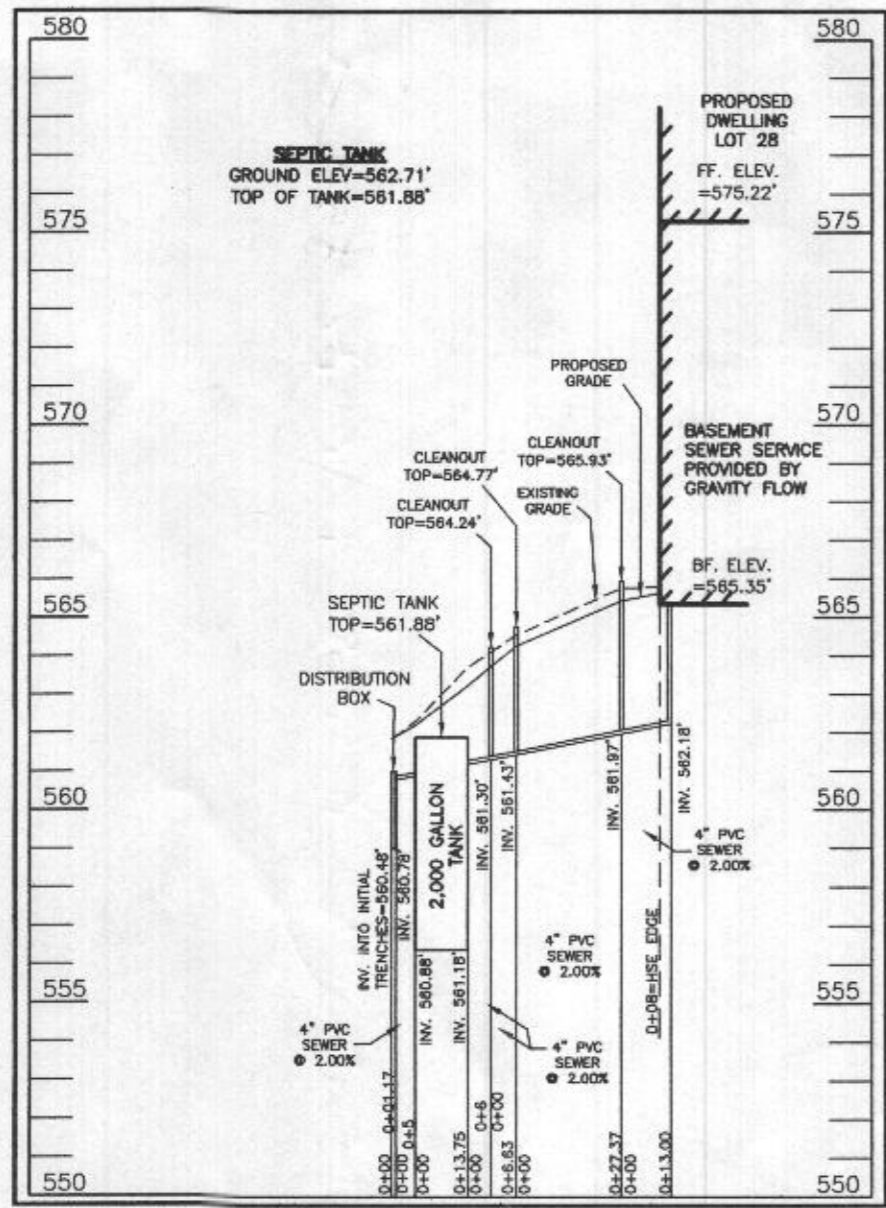
Approved Septic System Plan
 Howard County Health Department
 2000-gallon Septic Tank
 to Gravity Distribution
 for 6-bedroom residence
 Blake 5/10/2022
 Signature Date

- LEGEND:**
- BRL BUILDING RESTRICTION LINE
 - WELL LOCATION
 - TOP OF WALL
 - G.F. GARAGE FLOOR
 - B.F. BASEMENT FLOOR
 - PROPOSED PERC LOCATION
 - FAILED PERC LOCATION
 - SEWAGE DISPOSAL AREA
 - WELL BOX AREA
 - PROPOSED TREE
 - PROPOSED TREE
 - PROPOSED TREE



SEWAGE DISPOSAL SYSTEM DATA (6 BDRM):

- PROPOSED INVERT AT FOUNDATION WALL: 562.18'
- EX. GRADE OVER TANK: 563.01'
 PROPOSED GRADE OVER TANK: 562.71'
 INVERT IN: 561.18' INVERT OUT: 560.88'
 - DISTRIBUTION BOX
 EXISTING GRADE OVER TANK: 561.89'
 PROPOSED GRADE OVER TANK: 561.89'
 INVERT IN: 560.78' INVERT OUT: 560.48'
 - INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
 900 GPD ÷ 0.8 APP. RATE = 1,125 SF
 USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
 11" MIN. SPACING BETWEEN TRENCH EDGES
 1,125 SF ÷ 3" WIDTH = 375 LF x 0.42 (SIDEWALL REDUCION) = 157.50 LF MIN.
 USE 2 78.75' LONG TRENCHES = 157.50 LF
 - 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 66" GRAVEL BELOW PIPE
 12" MIN. SPACING BETWEEN TRENCH EDGES
 1,125 SF ÷ 3" WIDTH = 375 LF x 0.38 (SIDEWALL REDUCION) = 142.50 LF MIN.
 USE 2 71.25' LONG TRENCHES = 142.50 LF
 - 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 66" GRAVEL BELOW PIPE
 11" MIN. SPACING BETWEEN TRENCH EDGES
 1,125 SF ÷ 3" WIDTH = 375 LF x 0.42 (SIDEWALL REDUCION) = 157.50 LF MIN.
 USE 2 78.75' LONG TRENCHES = 157.50 LF



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

SOILS LEGEND

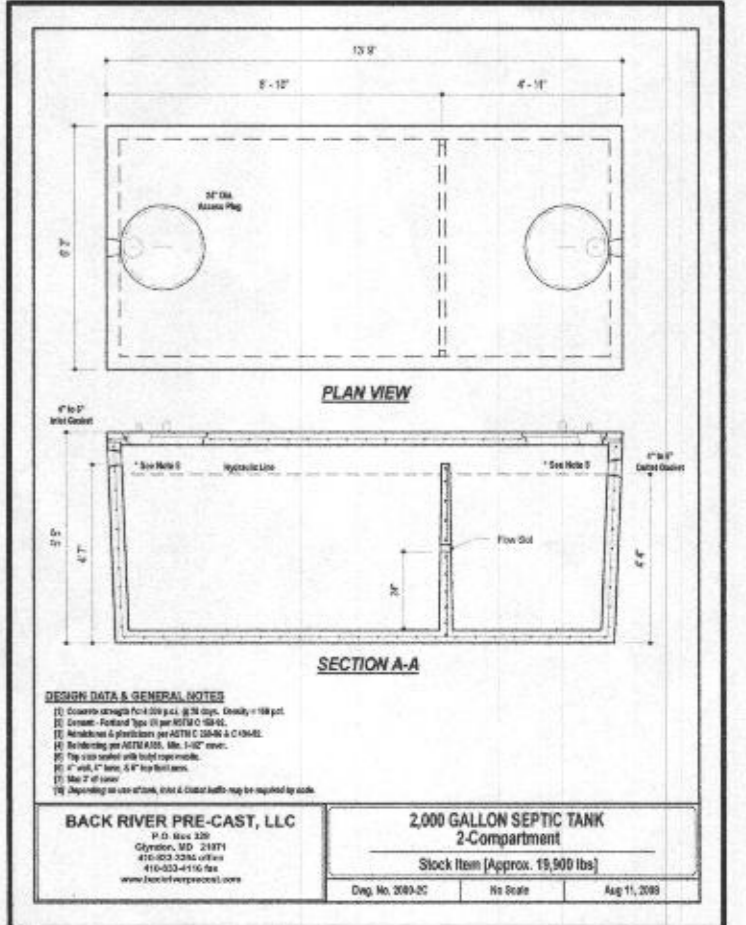
SOIL	NAME	CLASS	Kw
B/D	BRINKLOW CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	B	.20
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	.20
*GmA	GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	C	.37
*GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	.37
*GnC	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	.37
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.24

- NOTES:**
- HYDRIC SOILS AND / OR CONTAINS HYDRIC INCLUSIONS
 - MAY CONTAIN HYDRIC INCLUSIONS
 - DENOTES ERODIBLE SOILS

WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 28 (TAG NO. HO-20-0022) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
 LOT 28
LINDEN GROVE
 LIBER 15899, FOLIO 246
 PLAT NO. 25722
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND
 ADDRESS: 1433 HERITAGE RIDGE ROAD
 WOODBINE, MARYLAND 21797



ESE CONSULTANTS
 ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

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

DATE: 03/16/2022 SCALE: 1"= 30' FILE: OSDS LOT 28
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.