



**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 571521

APPROVAL DATE: 5/17/22 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 1421 HERITAGE RIDGE ROAD, WOODBINE, MD 21797

SUBDIVISION: LINDEN GROVE, PHASE 2

LOT: 25

TAX ID:

04-603247

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>135</u>	INLET DEPTH: <u>3.0</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 AT LEAST TWO CLEANOUTS IN SHC, NO MORE THAN 70 FEET APART	

ISSUED BY: R BRICKER

ISSUE DATE: 4/27/22

EXPIRATION DATE: 4/27/22

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

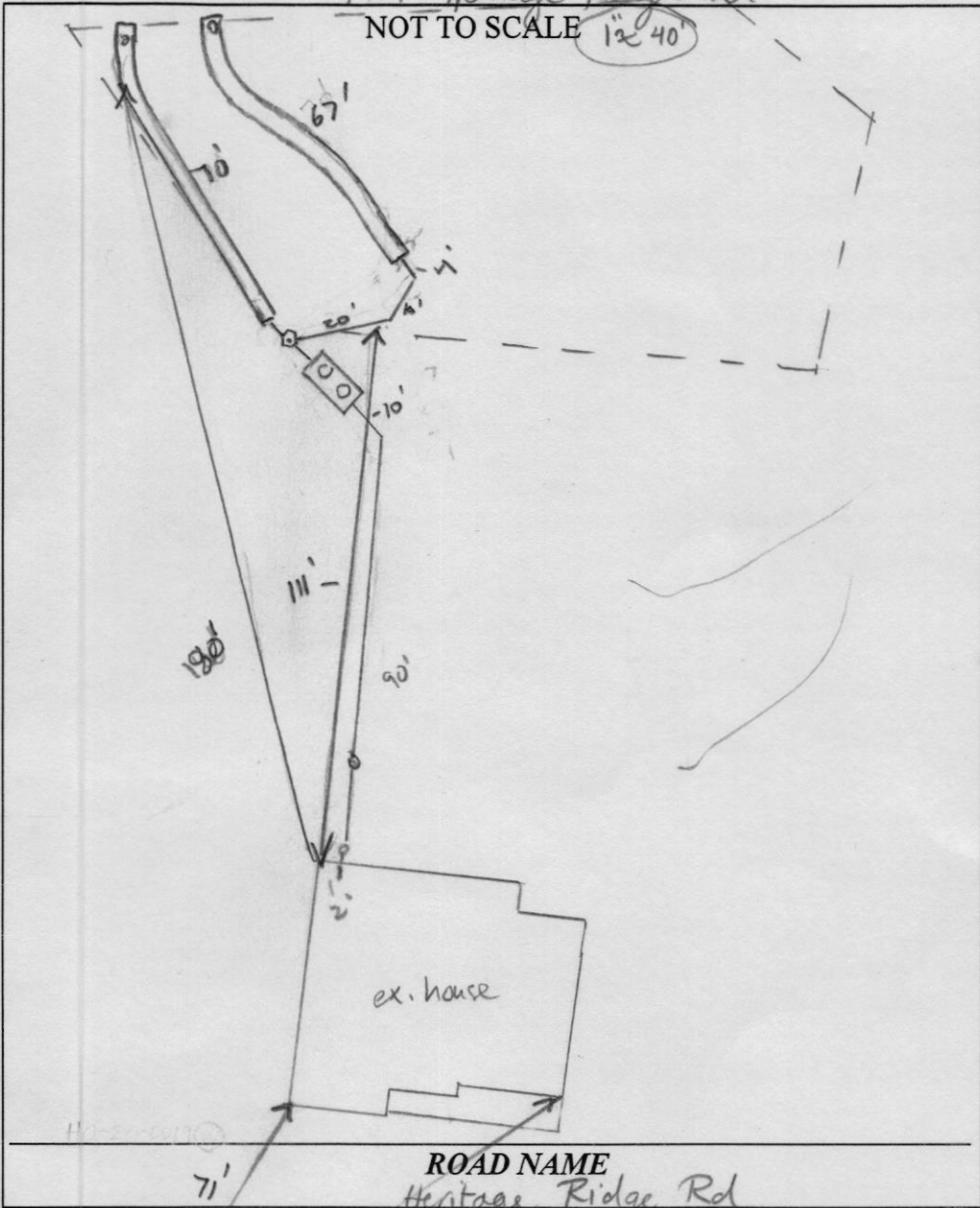
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

1421 Heritage Ridge Rd

NOT TO SCALE 1" = 40'



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	3'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		140
ABSORPTION AREA		
DISTRIBUTION BOX LEVEL		Level
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	24"
BAFFLES	Yes
BAFFLE FILTER	
MANHOLE LOC	Front/Rear
6" PORT LOC	None
WATERTIGHT TEST	
SLOTTED	Yes
DATE ON LID	3/21/22

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	

ROAD NAME

Heritage Ridge Rd

PRE-CONSTRUCTION:

5/5/22 Plumber accidentally installed hung sewer. There is sufficient grade to cover SL. Contractor had no stakes, call for layout. (SF)

5/16/22 2x68' trenches staked out on contour (SF)

HO-20-0019

INSTALLATION:

5/17/22 Trenches complete installed per plan. Alas trench abs pipes were "light weight" pipe w/ push caps. Told contractor these need to be sch 40 above stone and covered above grade w/ screw cap. OK to cover (Fwy)

FINAL INSPECTOR

[Signature]

DATE OF APPROVAL

5/17/22

HOUSE OPTIONS:

HOUSE TYPE: DUMONT (MODERN FARMHOUSE)

- TWO CAR SIDE ENTRY GARAGE
- FINISHED LOWER LEVEL
- WALK-OUT BASEMENT
- ADDITIONAL WALK-IN CLOSET
- ADD 1' TO HEIGHT OF BASEMENT FOUNDATION WALLS
- EXPANDED BEDROOM
- OUTDOOR LIVING DECK - WALK-OUT
- ADDITIONAL BATH FOR FINISHED LOWER LEVEL
- MET BAR - FINISHED BASEMENT

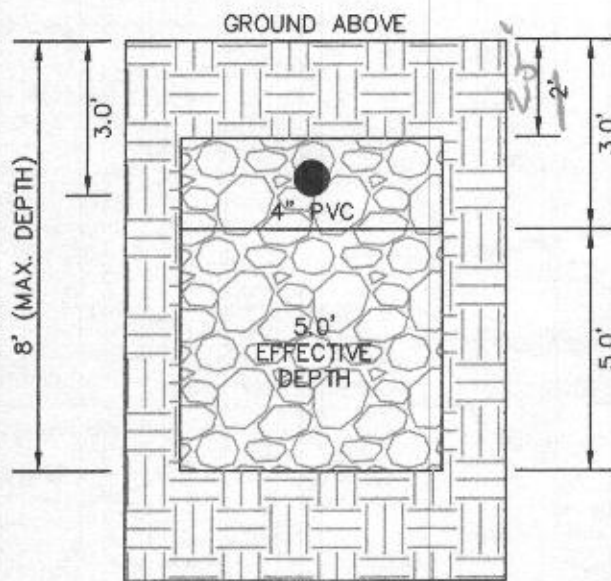
- OPTION No. 012
- OPTION No. 013
- OPTION No. 017
- OPTION No. 030
- OPTION No. 070
- OPTION No. 128
- OPTION No. 263169
- OPTION No. 383
- OPTION No. 561

INITIAL TRENCH DATA:

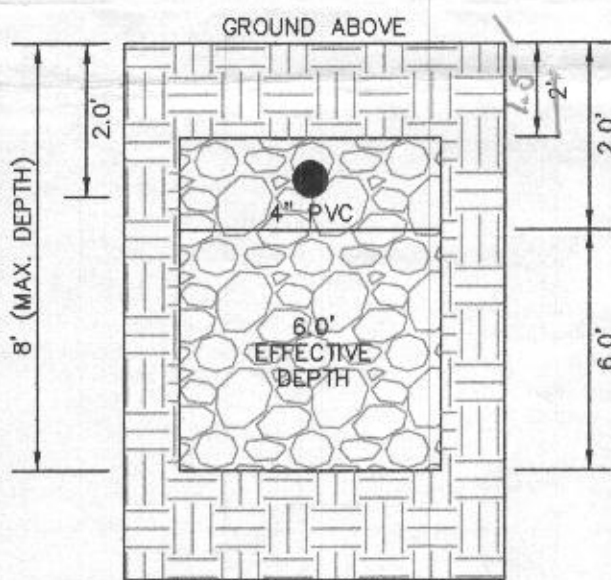
BOTTOM MAX. DEPTH (8.0')

TRENCH 1 (T1): 67.50 L.F.
 GROUND ABOVE = 571.62'
 INV. IN = 568.62'
 BOTTOM TRENCH = 563.62'

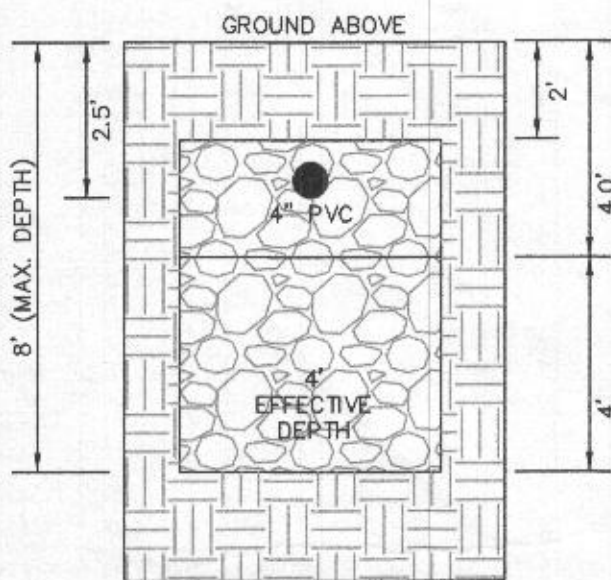
TRENCH 2 (T2): 67.50 L.F.
 GROUND ABOVE = 570.38'
 INV. IN = 567.88'
 BOTTOM TRENCH = 562.38'



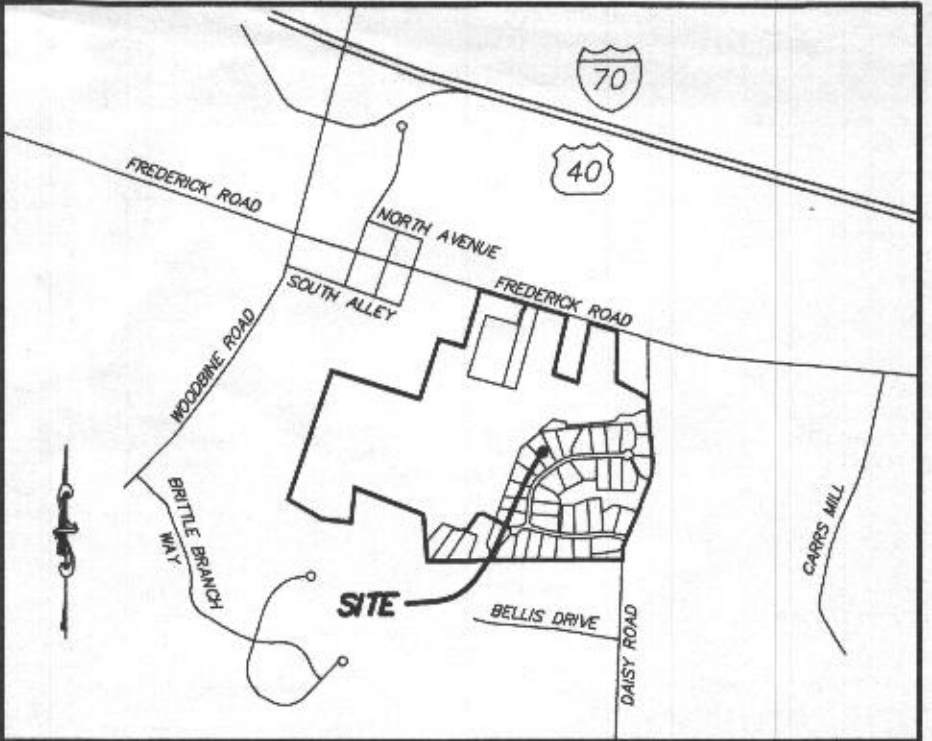
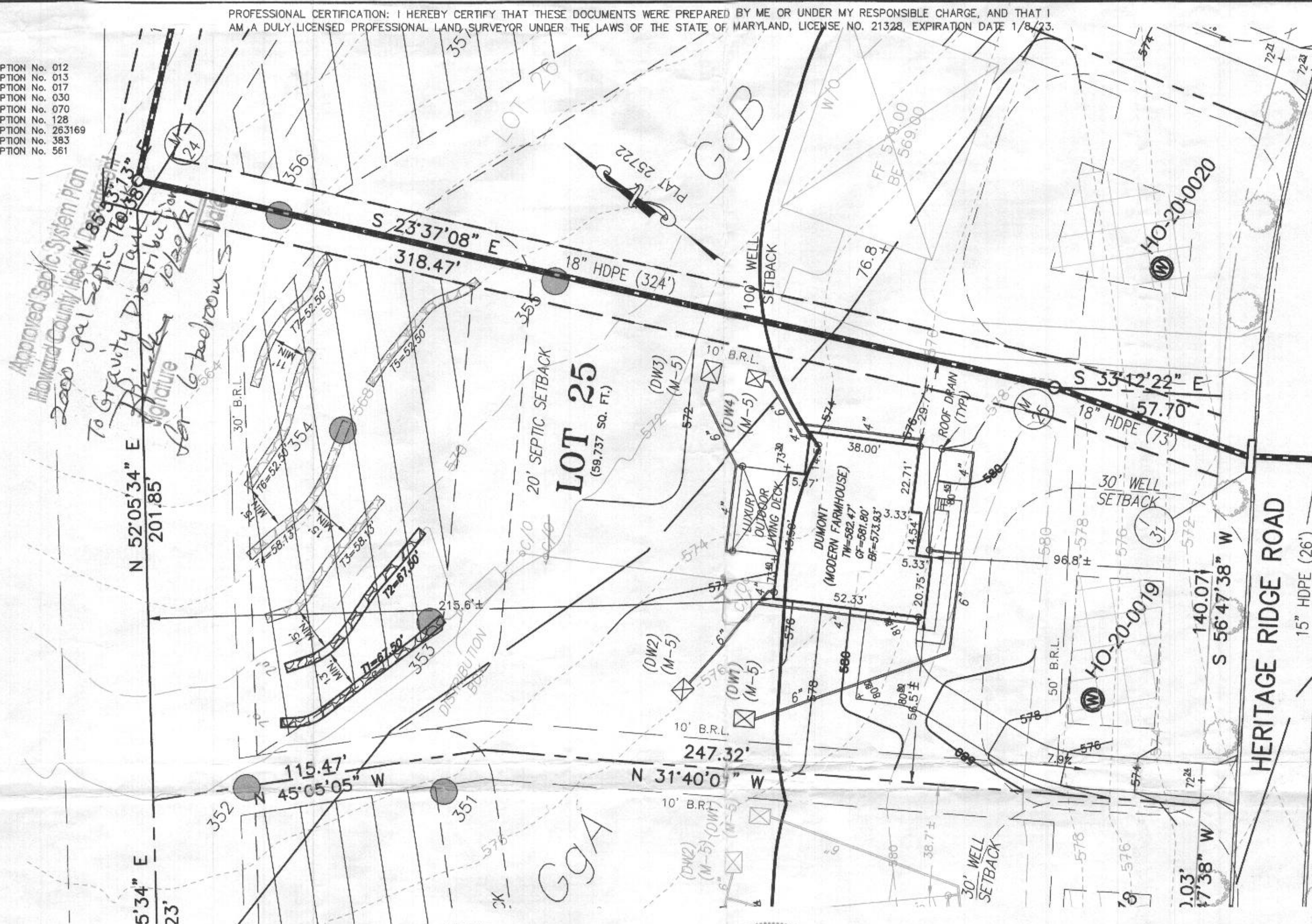
INITIAL SYSTEM TRENCH DETAIL (T1) THRU (T2) (NOT TO SCALE)



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



2ND REPLACEMENT SYSTEM TRENCH DETAIL (T5) THRU (T7) (NOT TO SCALE)



VICINITY MAP
1" = 1000'

GENERAL NOTES:

1. 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.
2. 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.
3. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
4. BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
5. 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.
6. THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
7. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
8. THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY FISHER, COLLINS AND CARTER, INC.

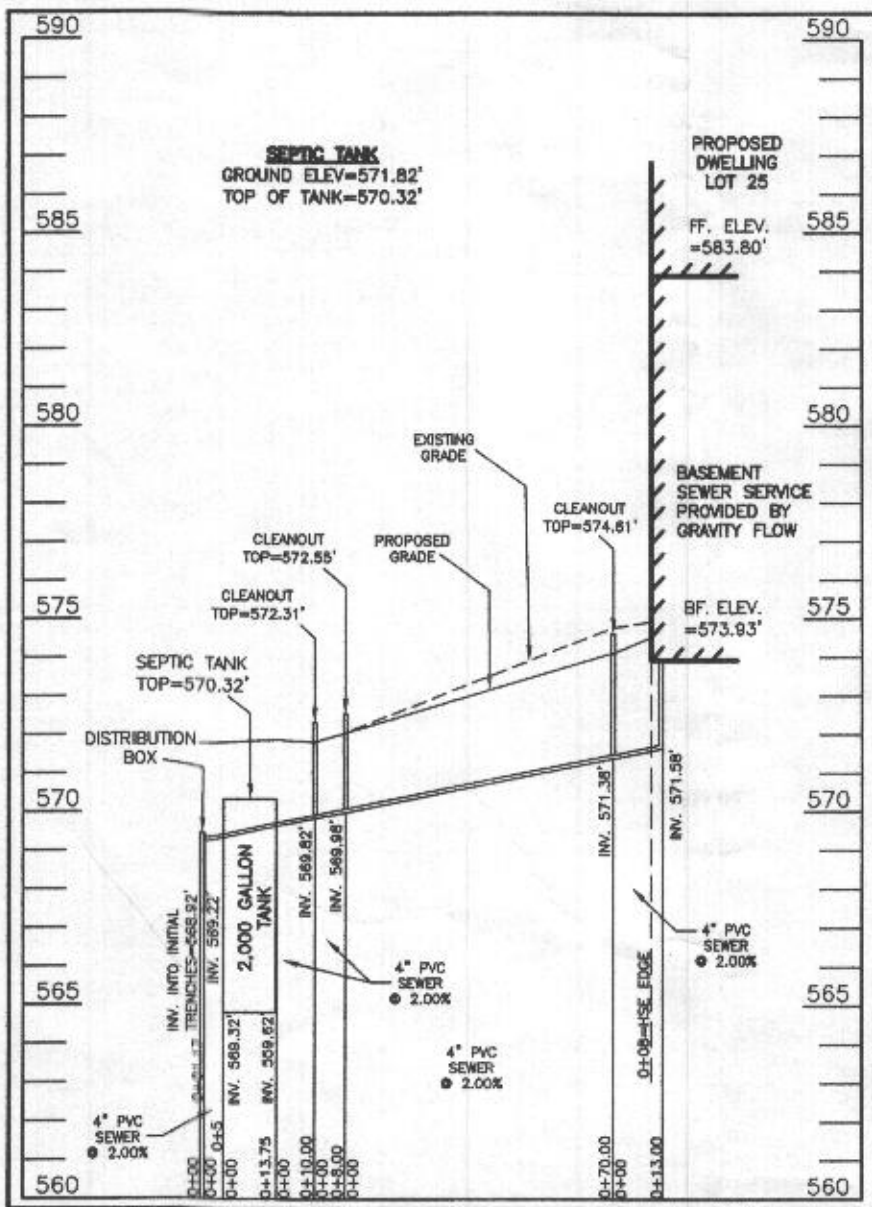
LEGEND:

- BRL BUILDING RESTRICTION LINE
- 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
- PROPOSED TREE



SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: 573.93'
1. EX. GRADE OVER TANK: 571.82'
 PROPOSED GRADE OVER TANK: 571.82'
 INVERT IN: 569.62' INVERT OUT: 569.32'
 2. DISTRIBUTION BOX
 EXISTING GRADE OVER TANK: 571.76'
 PROPOSED GRADE OVER TANK: 571.76'
 INVERT IN: 569.22' INVERT OUT: 568.92'
 3. 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 60" GRAVEL BELOW PIPE
 13' MIN. SPACING BETWEEN TRENCH EDGES
 1,125 SF + 3" WIDTH = 375 LF x 0.36 (REDUCTION) = 135 LF MIN.
 USE 2 67.50' LONG TRENCHES = 135 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 (REDUCTION) = 116.25 LF MIN.
 USE 2 58.13' 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 66" GRAVEL BELOW PIPE
 11' MIN. SPACING BETWEEN TRENCH EDGES
 1,125 SF + 3" WIDTH = 375 LF x 0.42 (REDUCTION) = 157.50 LF MIN.
 USE 3 52.50' LONG TRENCHES = 157.50 LF



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

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
*GnB	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

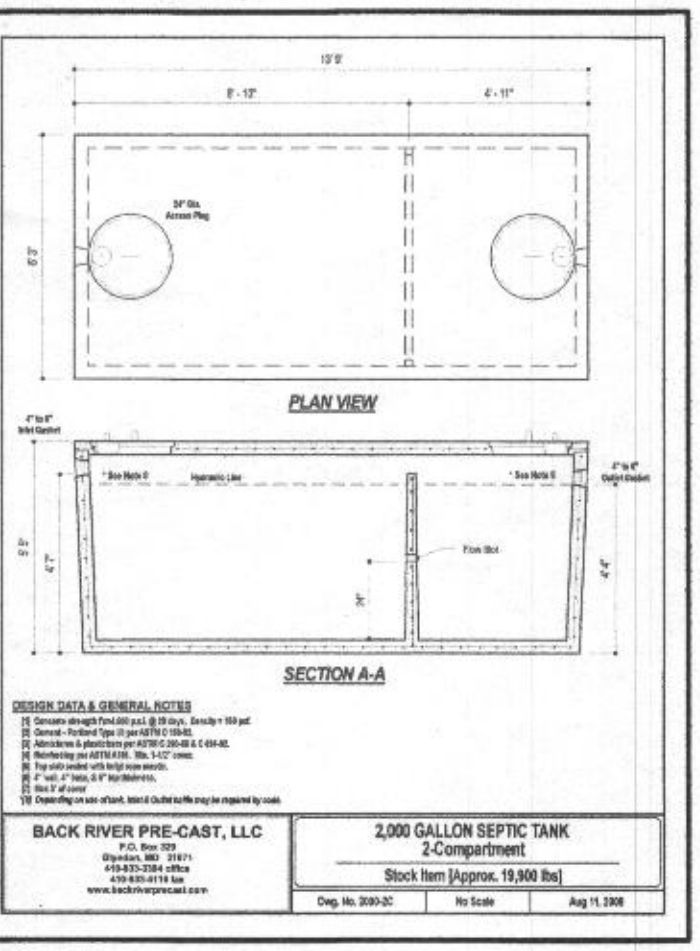
WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 25 (TAG NO. HO-20-0019) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.



ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 25
LINDEN GROVE
 LIBER 15899, FOLIO 246
 PLAT NO. 25722
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND
 ADDRESS: 1421 HERITAGE RIDGE ROAD
 WOODBINE, MARYLAND 21797

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

DATE: 08/12/2021 SCALE: 1" = 30' FILE: OSDS LOT 25
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.

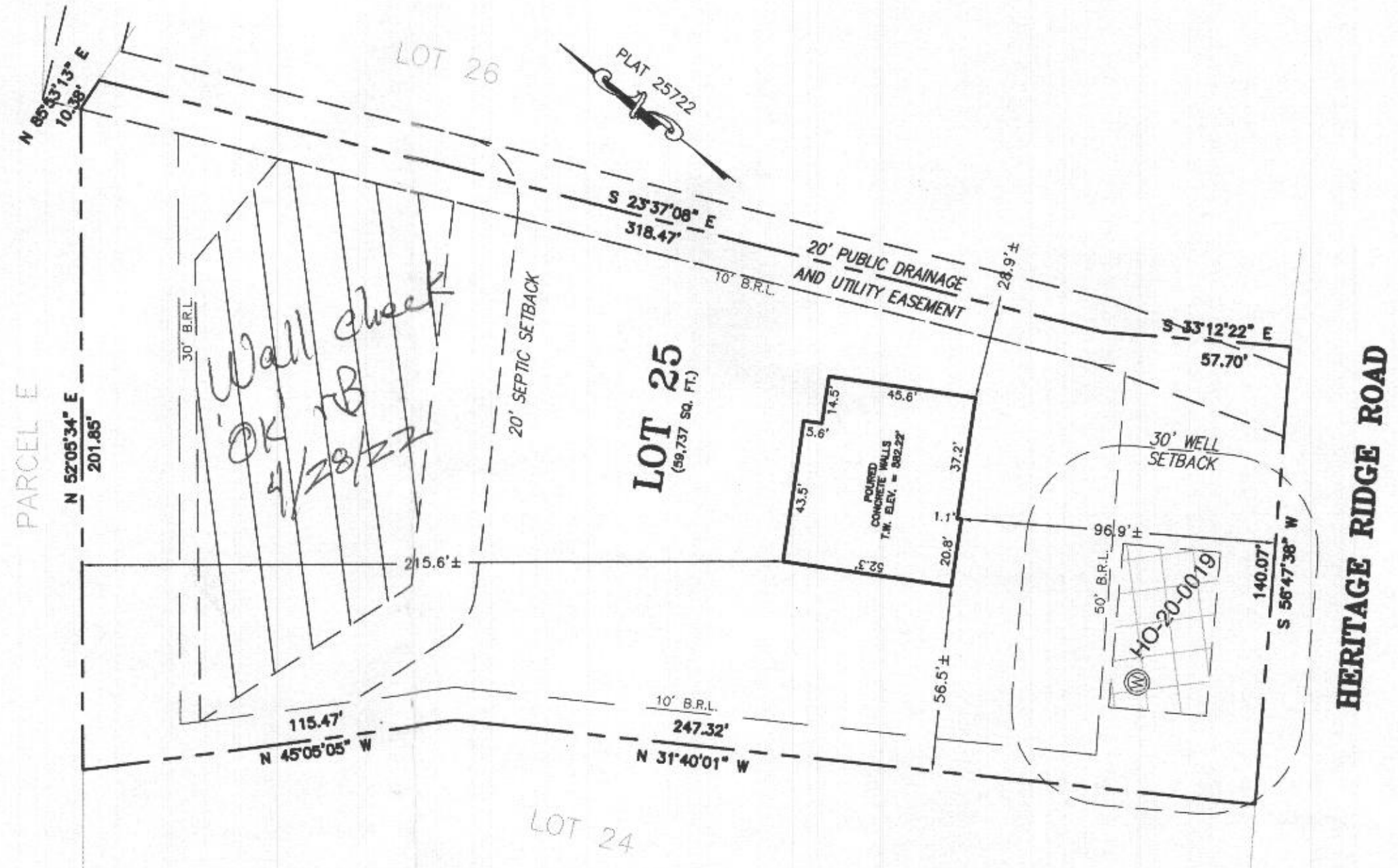


LEGEND:

- 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-20-0019
ADDRESS: 1421 HERITAGE RIDGE ROAD
 WOODBINE, MD 21797
PERMIT No.: B21003179

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPEMENT 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 01/19/22
 SIGNATURE: MICHAEL JOE BOYCE MD. LIC NO. DATE

WALLCHECK
 LOT 25
LINDEN GROVE
 LIBER 15899, FOLIO 246
 PLAT NO. 25722
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND

ESE CONSULTANTS

ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

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

DATE: 01/19/2022 SCALE: 1" = 40' FILE: WC LOT 25
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.

