

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: 12/23/21 **ONSITE SEWAGE DISPOSAL SYSTEM** P 570891

APPROVAL DATE: 2/15/22 (SP) **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 1417 HERITAGE RIDGE ROAD, WOODBINE, MD 21797

SUBDIVISION: LINDEN GROVE, PHASE 2 LOT: 24 TAX ID: 04-603246

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: 0.6

TRENCHES:	LINEAR FEET REQUIRED: <u>250</u>	INLET DEPTH: <u>3.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5.0</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. SET DISTRIBUTION BOX CLOSER TO TRENCH THAN ILLUSTRATED.	

ISSUED BY: R BRICKER ISSUE DATE: 12/23/21 EXPIRATION DATE: 12/23/22

- 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.**

NOT TO SCALE

TRENCH/DRAINFIELD DATA

WIDTH INLET BOTTOM

3' 3' 8'

NUMBER OF TRENCHES 4

TOTAL LENGTH 264'

ABSORPTION AREA 792 sq ft + sidewall

DISTRIBUTION BOX LEVEL speedy

DISTRIBUTION BOX BAFFLE concrete

DISTRIBUTION BOX PORT Pvc

* see attached

SEPTIC TANK DATA

SEPTIC TANK I LEVEL yes

MANUFACTURER Babylon

CAPACITY 2000 GAL

SEAM LOC top

TANK LID DEPTH 2.5'

BAFFLES inlet + outlet

BAFFLE FILTER -

MANHOLE LOC inlet + outlet

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED yes

DATE ON LID 12-2-21

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 _____

ROAD NAME

PRE-CONSTRUCTION:

2/10/22 laid out 4x63' trenches on contour straightened out a bit to make it easier to install. Confirmed stub out in correct location (SP)

INSTALLATION:

2/14/22 SHC, SL installed. Tanks and d-box set 4x66' trenches installed. Re-insp for d-box baffle and leveling (SP) 2/15/22 D-box leveled. (SP)

FINAL INSPECTOR

Susan Thomas

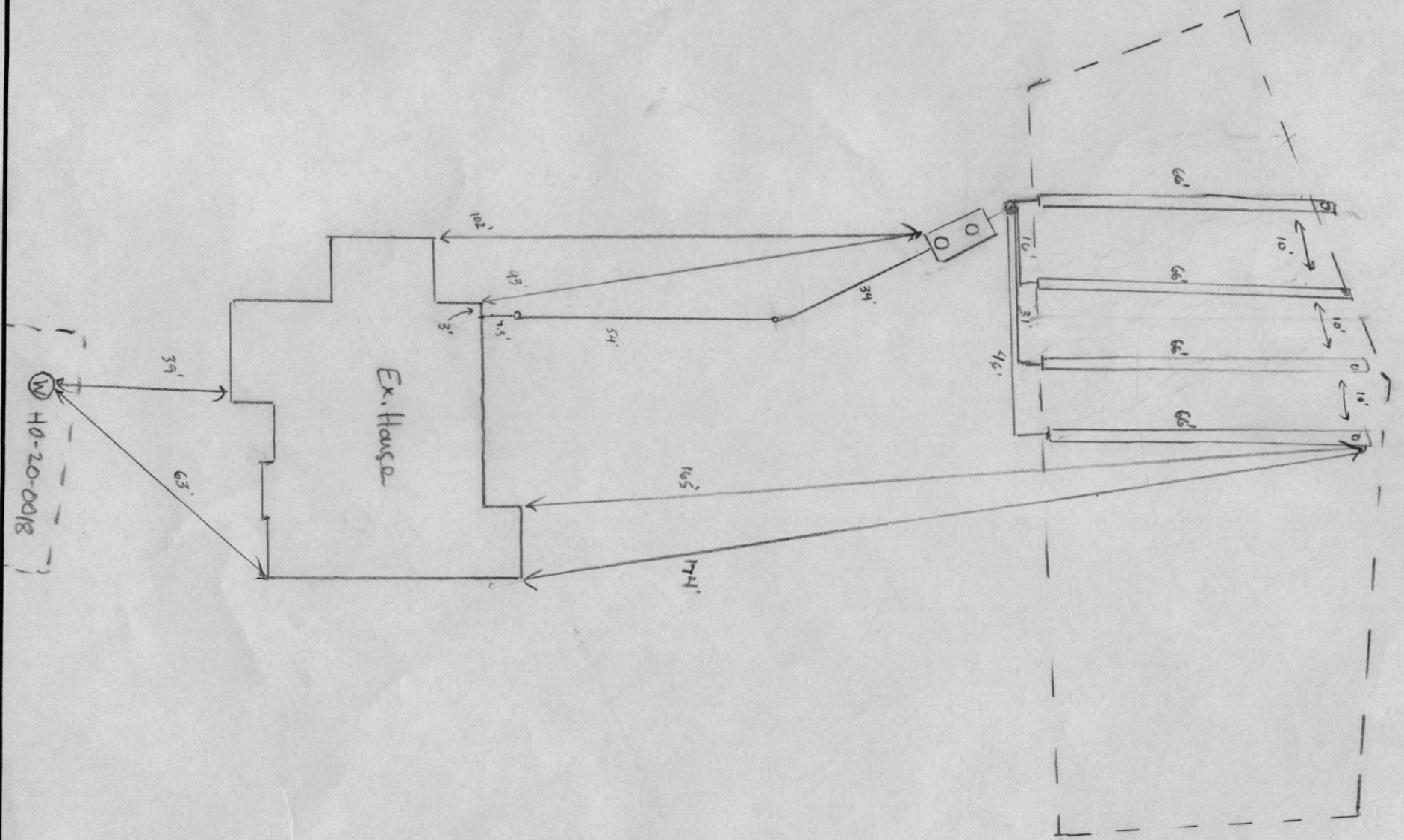
DATE OF APPROVAL

2/15/22

NOT TO SCALE 1" = 30'

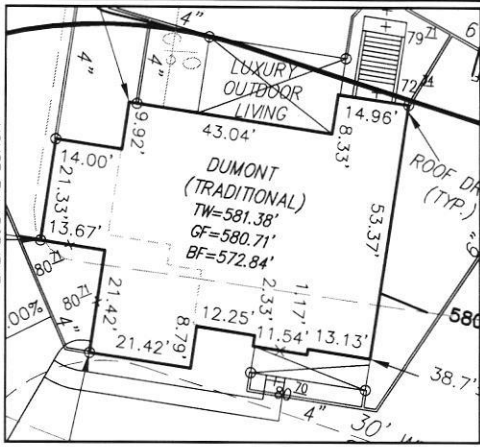
1417 Heritage Ridge

Heritage Ridge Rd



- LEGEND:
- BRL BUILDING RESTRICTION LINE
 - WELL LOCATION
 - TOP OF WALL
 - G.F. GARAGE FLOOR
 - B.F. BASEMENT FLOOR
 - FAILED PERG. LOCATION
 - SILT FENCE
 - SUPER SILT FENCE
 - STONE CONSTRUCTION ENTRANCE
 - SCOE SEWAGE DISPOSAL AREA
 - WELL BOX AREA
 - PROPOSED TREE
 - PROPOSED TREE
 - PROPOSED TREE

NOTE:
TOTAL LIMITS OF DISTURBANCE (LOD) = 49,190 SQ. FT.



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

HOUSE TYPE: DUMONT (TRADITIONAL)



- HOUSE TYPE: DUMONT (TRADITIONAL)
- NOT TO SCALE
- HOUSE ENGAGEMENT
- TWO CAR SIDE ENTRY GARAGE
 - FINISHED BASEMENT
 - MULTI-GENERATIONAL SUITE ADDITION
 - OPTIONAL DRCP ZONE
 - ADDITIONAL ONE CAR FRONT ENTRY GARAGE - 14'
 - LUXURY OUTDOOR LIVING
 - LUXURY BATH FOR FINISHED LOWER LEVEL
 - WET BAR - FINISHED BASEMENT
 - OPTION 030 ADDITIONAL WALK-IN CLOSET
 - OPTION 263279 FINISH BASEMENT WITH MULTI GEN FINISH BONUS RECREATION SPACE
 - WELL NUMBER: HO-20-0018

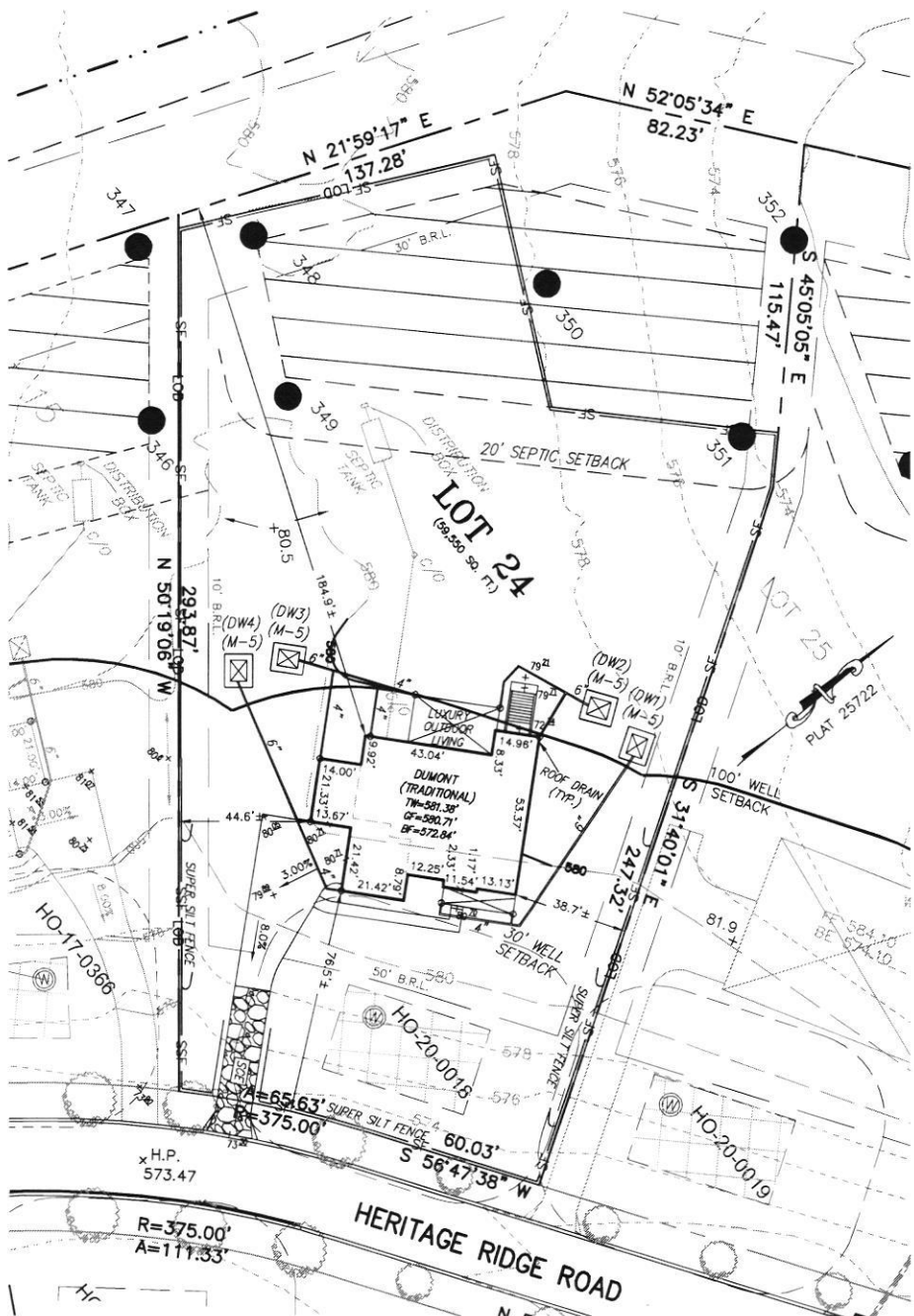
ADDRESS: 1417 HERITAGE RIDGE ROAD WOODBINE, MD 21797

LOT PLAN
LOT 24
LINDEN GROVE
LIBER 15899, FOLIO 246
PLAT NO. 25722
ELECTION DISTRICT NO. 4
HOWARD COUNTY, MARYLAND

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ENGINEERING • PLANNING • SURVEYING • ENVIRONMENT

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

DATE: 07/02/2021 SCALE: 1" = 40' FILE: PP LOT 24 DUMONT TRADITIONAL_rev1
CHK'D: M.A.B. JOB NO: 4683 DRAWN: V.A.P.





HOWARD COUNTY HEALTH DEPARTMENT

70891

DATE 12/23/21

RS

Received From

Chavis Ent

PHONE #

410-557-2455

For

Septic Permit /
Lot 24 1417

Henkbridge

CASH

CHECK

NO.

2540

Three hundred twenty

Dollars

\$



396 00

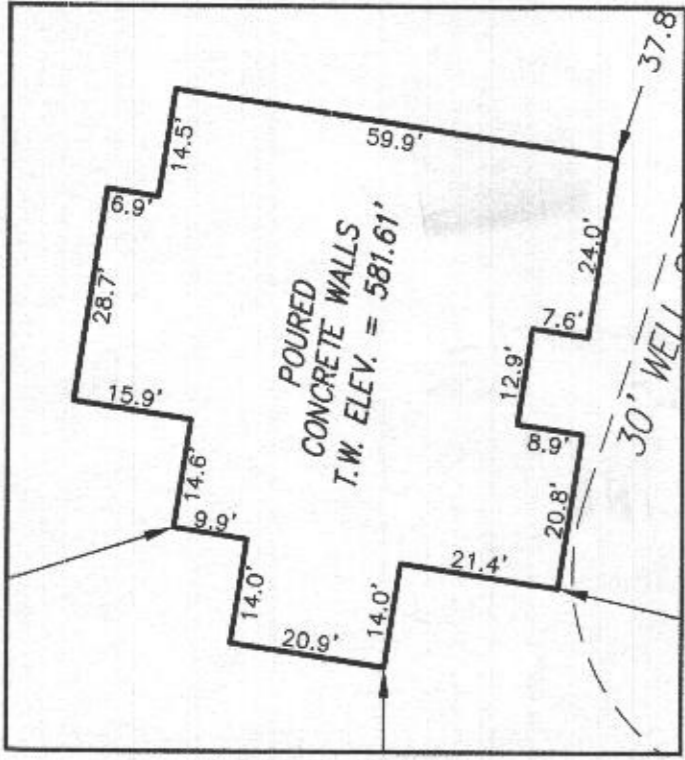
Received By

Kemp

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:

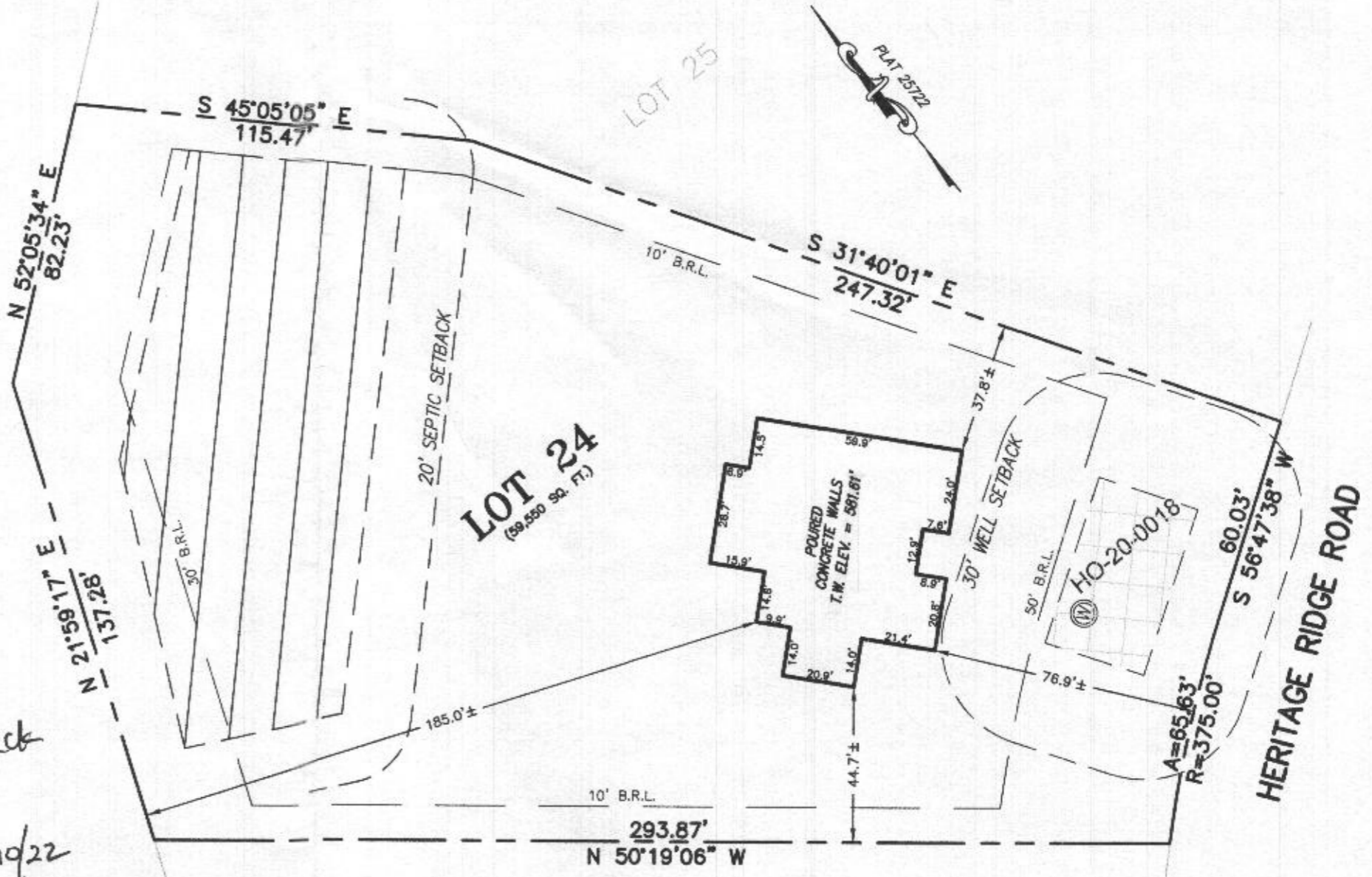
- BRL BUILDING RESTRICTION LINE
- (W) WELL LOCATION
- T.W. TOP OF WALL
- ELEV. ELEVATION
-  SEWAGE DISPOSAL AREA
-  WELL BOX AREA



HOUSE ENLARGEMENT
NOT TO SCALE

WELL NUMBER: HO-20-0018
 ADDRESS: 1417 HERITAGE RIDGE ROAD
 WOODBINE, MD 21797
 PERMIT NO.: B21002656

Wall check
OK
② 2/10/22



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
 MD. LIC NO. 21328
 DATE 12/14/21

WALLCHECK
 LOT 24
LINDEN GROVE
 LIBER 15899, FOLIO 246
 PLAT NO. 25722
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND

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 ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

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

DATE: 12/14/2021 SCALE: 1" = 40' FILE: WC LOT 24
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: R.C.K.



HOUSE OPTIONS:

HOUSE TYPE: DUMONT (TRADITIONAL)

- TWO CAR SIDE ENTRY GARAGE
- FINISHED LOWER LEVEL
- DAYLIGHT BASEMENT
- MULTI-GENERATIONAL SUITE ADDITION
- OPTIONAL DROP ZONE
- ADDITIONAL ONE CAR FRONT ENTRY GARAGE - 14'
- LUXURY OUTDOOR LIVING
- ADDITIONAL BATH FOR FINISHED LOWER LEVEL
- NET BAR - FINISHED BASEMENT
- OPTION 030 ADDITIONAL WALK IN CLOSET
- OPTION 263279 FINISH BASEMENT WITH MULT GEN
- FINISH BONUS RECREATION SPACE

- OPTION No. 012
- OPTION No. 013
- OPTION No. 018
- OPTION No. 263073
- OPTION No. 263081
- OPTION No. 263102
- OPTION No. 263165
- OPTION No. 383
- OPTION No. 561
- OPTION No. 90024003
- OPTION No. 90024002
- OPTION No. 90024004

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.

INITIAL TRENCH DATA

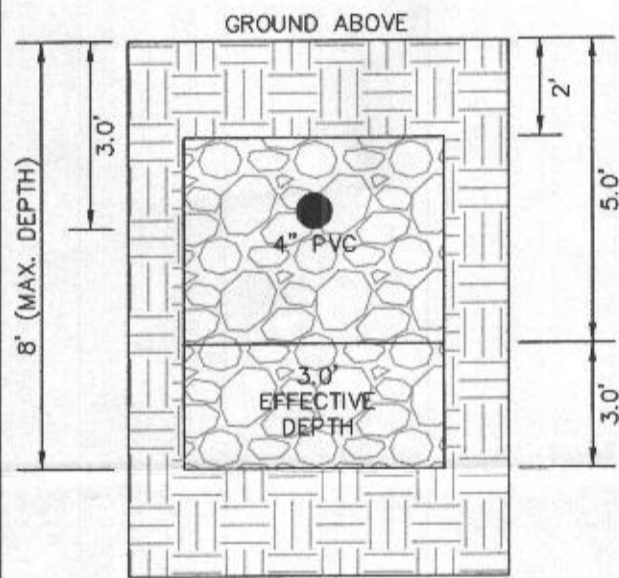
BOTTOM MAX. DEPTH (8.0')

TRENCH 1 (T1): 62.50 LF.
GROUND ABOVE = 579.50'
INV. IN = 576.50'
BOTTOM TRENCH = 571.50'

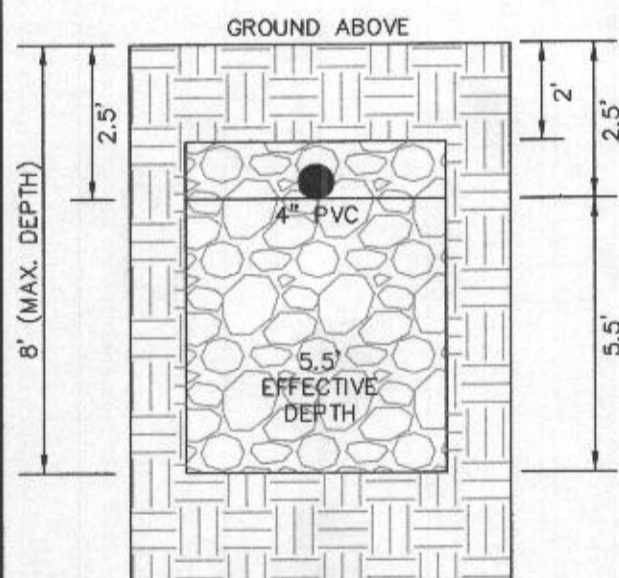
TRENCH 2 (T2): 62.50 LF.
GROUND ABOVE = 579.10'
INV. IN = 576.10'
BOTTOM TRENCH = 571.10'

TRENCH 3 (T3): 62.50 LF.
GROUND ABOVE = 578.70'
INV. IN = 575.70'
BOTTOM TRENCH = 570.70'

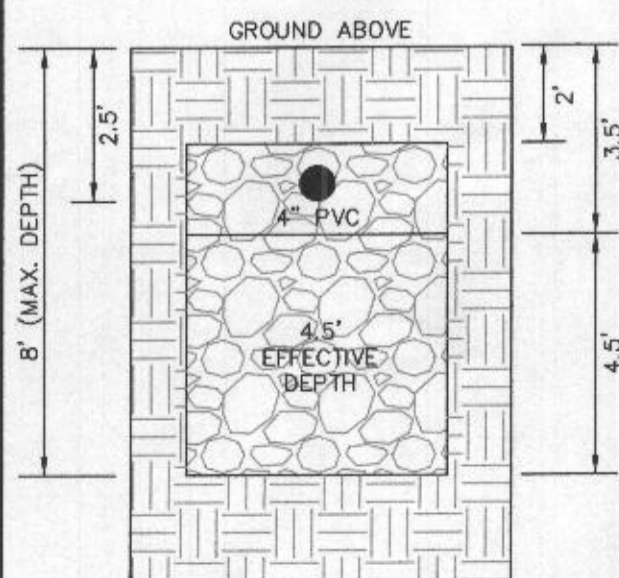
TRENCH 4 (T4): 62.50 LF.
GROUND ABOVE = 578.40'
INV. IN = 575.40'
BOTTOM TRENCH = 570.40'



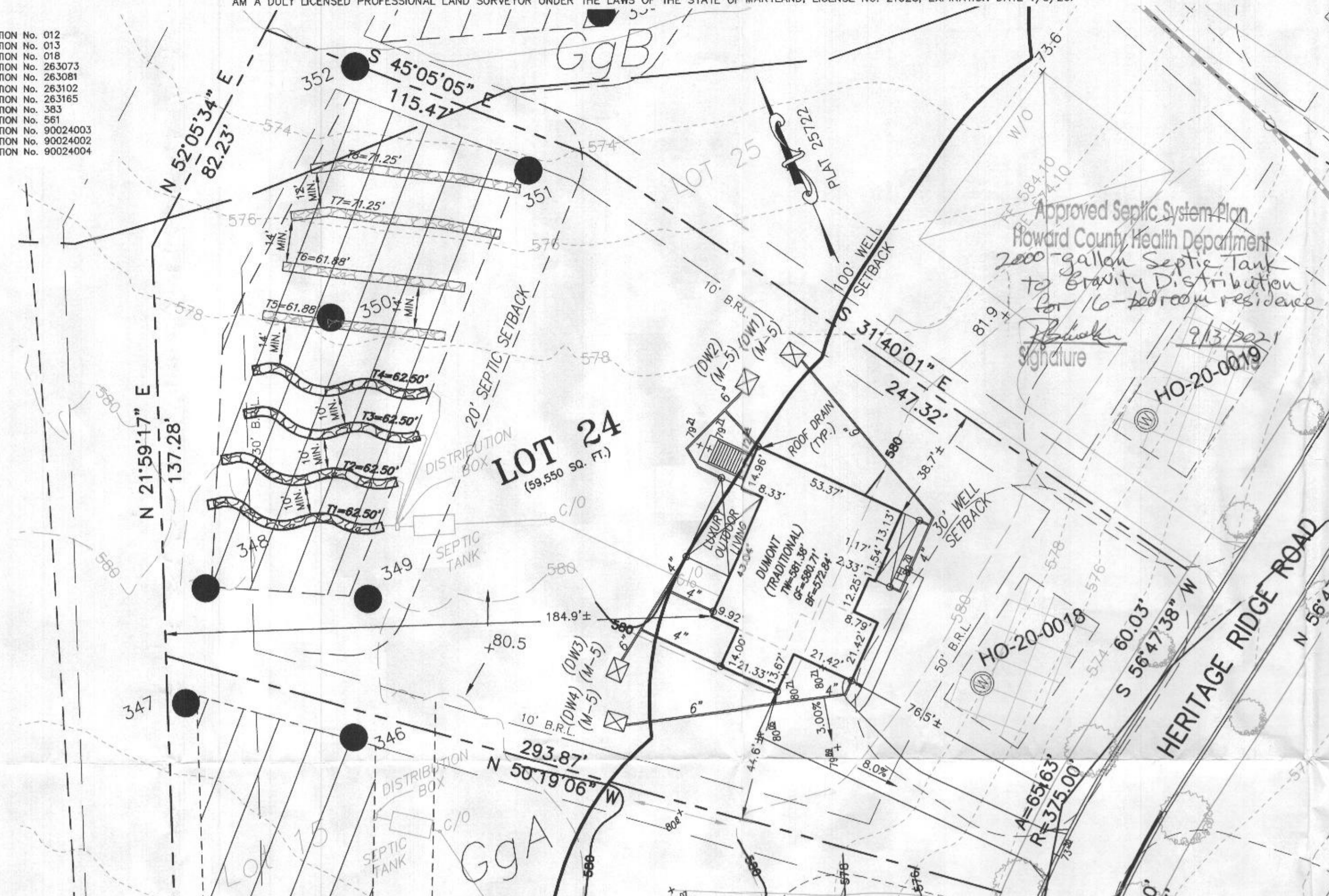
INITIAL SYSTEM TRENCH DETAIL (T1) THRU (T4) (NOT TO SCALE)



1ST REPLACEMENT SYSTEM TRENCH DETAIL (T5) AND (T6) (NOT TO SCALE)



2ND REPLACEMENT SYSTEM TRENCH DETAIL (T7) AND (T8) (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
 - P.P. PASSED PERC LOCATION
 - F.P. FAILED PERC LOCATION
 - SEWAGE DISPOSAL AREA
 - WELL BOX AREA
 - PROPOSED TREE
 - PROPOSED TREE



SEWAGE DISPOSAL SYSTEM DATA (6 BDRM):

- PROPOSED INVERT AT FOUNDATION WALL: 578.72'
1. EX. GRADE OVER TANK: 579.45'
PROPOSED GRADE OVER TANK: 579.45'
INVERT IN: 577.52' INVERT OUT: 577.22'
 2. DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 579.47'
PROPOSED GRADE OVER TANK: 579.47'
INVERT IN: 577.12' INVERT OUT: 576.82'
 3. INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 0.6 APP. RATE = 1,500 SF
USE 3' WIDE TRENCH WITH 60" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
1,500 SF ÷ 3' WIDTH = 500 LF x 0.50 (REDUCTION) = 250 LF MIN.
USE 4 62.50' LONG TRENCHES = 250 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 66" GRAVEL BELOW PIPE
14' MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF ÷ 3' WIDTH = 375 LF x 0.33 (REDUCTION) = 123.75 LF MIN.
USE 2 61.88' LONG TRENCHES = 123.75 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
12' MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF ÷ 3' WIDTH = 375 LF x 0.38 (REDUCTION) = 142.50 LF MIN.
USE 2 71.25' LONG TRENCHES = 142.50 LF

SOILS LEGEND

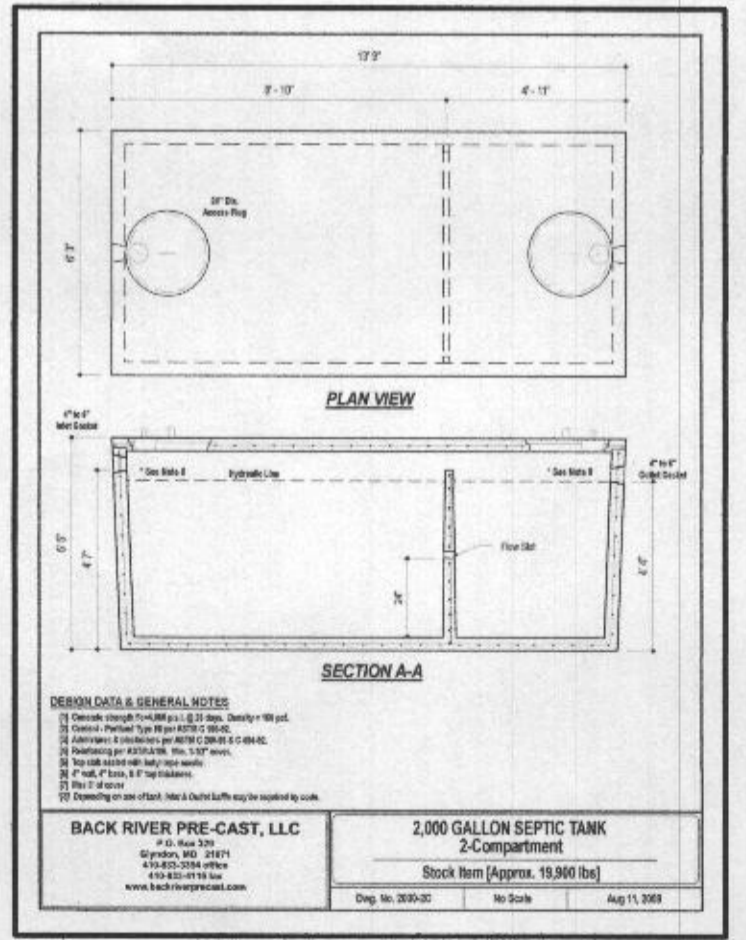
SOIL	NAME	CLASS	Kw
BrD	BRINKLOW CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	B	20
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	20
*GmA	GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	C	37
*GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	37
*GmC	GLENVILLE-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 24 (TAG NO. HO-20-0018) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 24
LINDEN GROVE
 LIBER 15899, FOLIO 246
 PLAT NO. 25722
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND
 ADDRESS: 1417 HERITAGE RIDGE ROAD
 WOODBINE, MARYLAND 21797



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 T: 410-872-9105

DATE: 07/11/2021 SCALE: 1" = 30' FILE: OSDS LOT 24_rev1
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.