

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: 11/3/22 **ONSITE SEWAGE DISPOSAL SYSTEM** P 572677
 APPROVAL DATE: 11/22/2022 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 7005 Colt Place
 SUBDIVISION: Willowshire LOT: 24 TAX ID: _____
 CONTRACTOR: Fogles Septic Clean Inc. EMAIL: kim@foglesinc.com
 CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784 PHONE: 410-795-5670
 PROPERTY OWNER: Toll Mid Atlantic LP Co Inc. EMAIL: _____
 OWNER ADDRESS: 250 Gibraltar Road, Horsham, PA 19044 PHONE: 410-872-9105
 SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Back River Pre Cast
 PUMP MODEL: _____ PUMP SIZE _____ PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>187.50</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>6</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</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 5 trenches at 37.50	

ISSUED BY: _____ ISSUE DATE: 11-7-22 EXPIRATION DATE: 11-3-23

- 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 22065993 H.D.
- 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

see separate sheet
For AS-Built

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	3'	6'
NUMBER OF TRENCHES		5
TOTAL LENGTH		195 F
ABSORPTION AREA		585 SF + 3' SIDE WALL
DISTRIBUTION BOX LEVEL		SPED
DISTRIBUTION BOX BAFFLE		CONC
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	Babylon Vault
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	
BAFFLES	yes
BAFFLE FILTER	-
MANHOLE LOC	front/back
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	Oct 10 th 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	

ROAD NAME

PRE-CONSTRUCTION:

11/15/22 - Adjusted T₁ & T₂. Shifted 5" downhill. original elevation shot in field was 5" difference. T₄ & T₅ look good. OK to start T₃ next to d-box (SP/KW)

INSTALLATION:

11/17/2022 Tank loc, Dbox installed; 4 x 39' trenches completed, inspect tie-in to DBox. 11/18/2022 Trenches complete Reinspect D box speed levels. 11/20/22 Dbox leveled OK to cover all work (KW)

FINAL INSPECTOR

[Signature]

DATE OF APPROVAL

11/22/2022

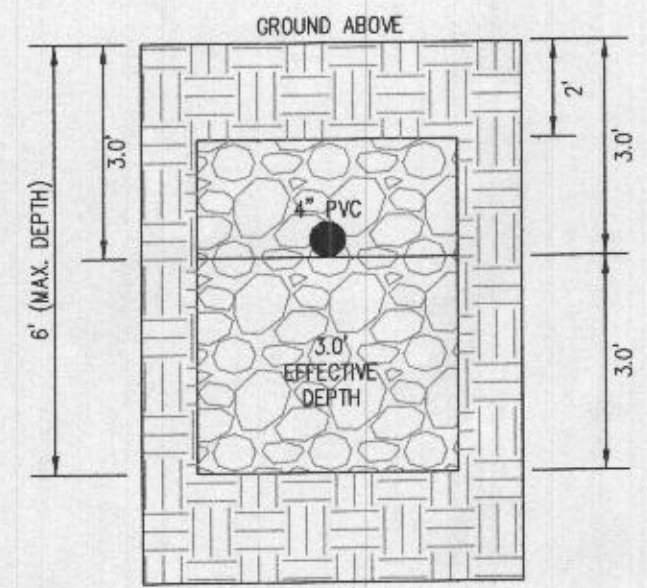
HOUSE OPTIONS:

HOUSE TYPE: PARKHURST (MODERN FARMHOUSE)

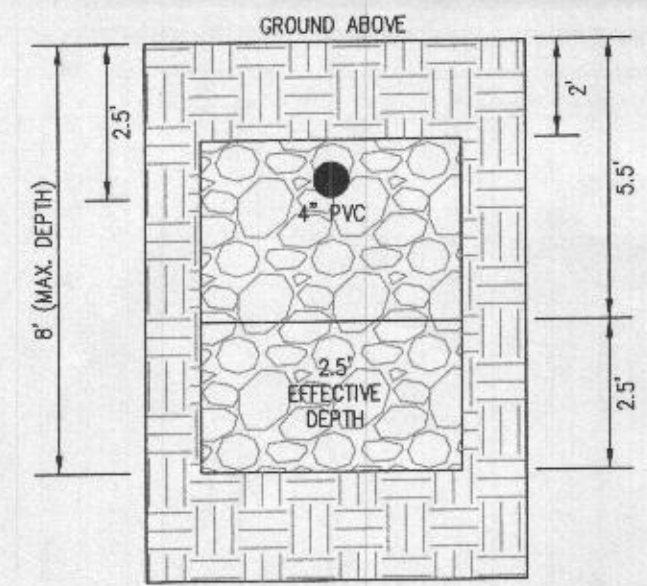
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|--|-------------------|
| TWO CAR SIDE ENTRY GARAGE | OPTION No. 012 |
| FINISHED LOWER LEVEL | OPTION No. 013 |
| WALK-OUT BASEMENT | OPTION No. 017 |
| MULTI-GENERATIONAL SUITE ADDITION | OPTION No. 263073 |
| WALK-OUT LUXURY COVERED DECK | OPTION No. 263169 |
| WET BAR ROUGH-IN | OPTION No. 048246 |
| BEDROOM - FINISHED LOWER LEVEL | OPTION No. 263216 |
| OPTIONAL BATHROOM - FINISHED LOWER LEVEL | OPTION No. 383 |

INITIAL TRENCH DATA

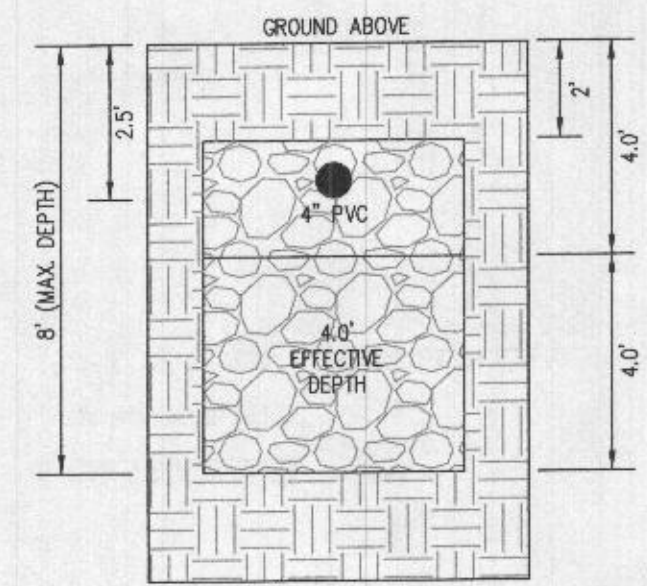
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|----------------------------------|----------------------------------|
| BOTTOM MAX. DEPTH (6") | |
| TRENCH 1 (T1): 37.50 L.F. | TRENCH 4 (T4): 37.50 L.F. |
| GROUND ABOVE = 478.10' | GROUND ABOVE = 476.10' |
| INV. IN = 475.10' | INV. IN = 473.10' |
| BOTTOM TRENCH = 472.10' | BOTTOM TRENCH = 470.10' |
| TRENCH 2 (T2): 37.50 L.F. | TRENCH 5 (T5): 36.50 L.F. |
| GROUND ABOVE = 477.30' | GROUND ABOVE = 475.20' |
| INV. IN = 474.30' | INV. IN = 472.20' |
| BOTTOM TRENCH = 471.30' | BOTTOM TRENCH = 469.20' |
| TRENCH 3 (T3): 37.50 L.F. | |
| GROUND ABOVE = 476.10' | |
| INV. IN = 473.10' | |
| BOTTOM TRENCH = 470.10' | |



INITIAL SYSTEM
TRENCH DETAIL (T1) THRU (T5)
(NOT TO SCALE)



1ST REPLACEMENT SYSTEM
TRENCH DETAIL (T6 AND T8)
(NOT TO SCALE)

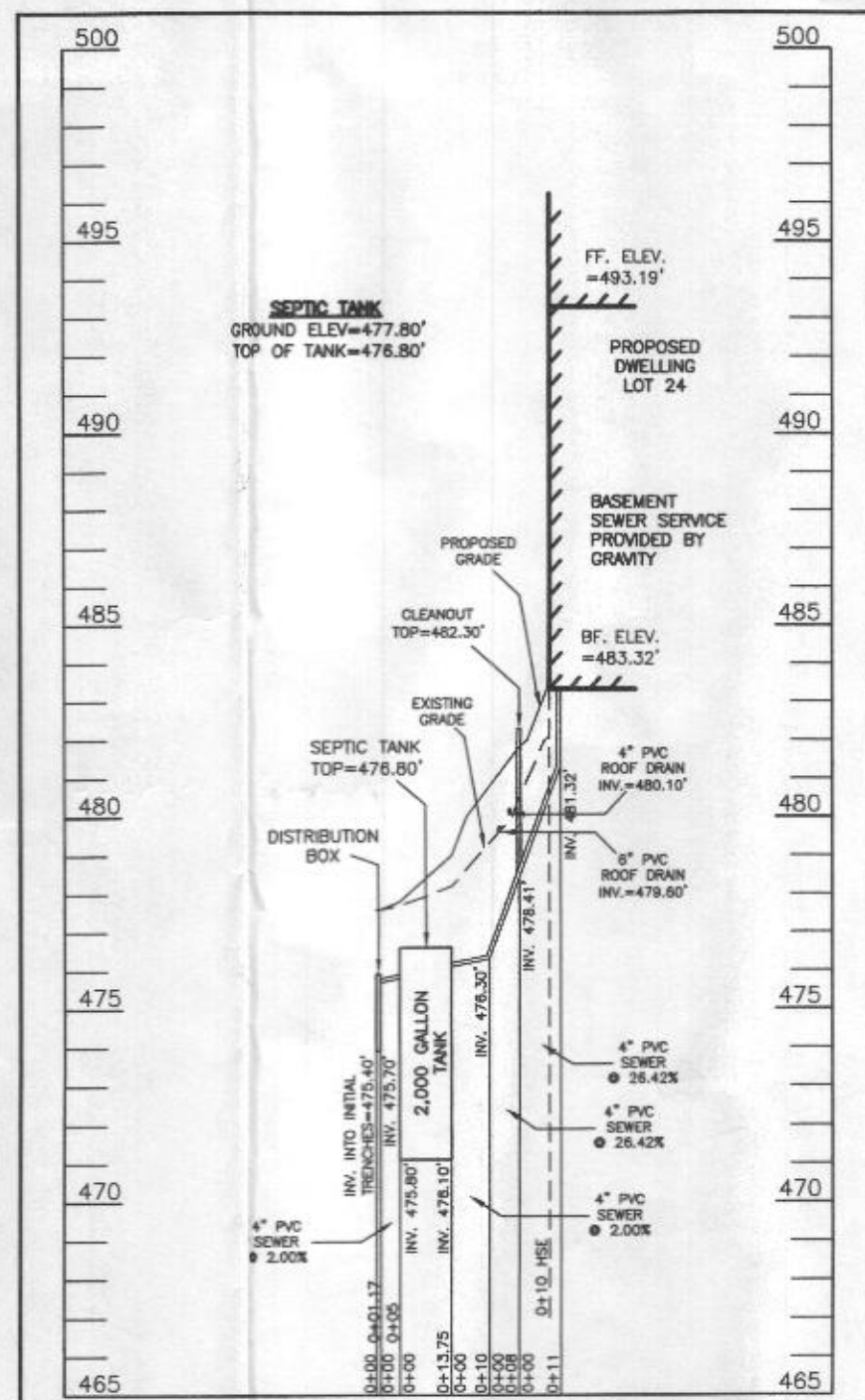


2ND REPLACEMENT SYSTEM
TRENCH DETAIL (T9 AND T10)
(NOT TO SCALE)

- LEGEND:**
- BRL BUILDING RESTRICTION LINE
 - 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
 - SOIL DELINEATION LINE

SOILS LEGEND

SOIL	NAME	CLASS	Kw
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.28
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	.28



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

SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: 481.32'
- EX. GRADE OVER TANK: 477.70'
PROPOSED GRADE OVER TANK: 477.80'
INVERT IN: 476.10' INVERT OUT: 475.80'
 - DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 477.60'
PROPOSED GRADE OVER TANK: 477.60'
INVERT IN: 475.70' INVERT OUT: 475.40'
 - 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 36" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF ÷ 3" WIDTH = 375 LF x 0.56 (SIDEWALL REDUCTION) = 187.50 LF MIN.
USE 5 37.50' LONG TRENCHES = 187.50 LF
 - 1ST REPLACEMENT 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
10' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3" WIDTH = 250 LF x 0.56 (SIDEWALL REDUCTION) = 140 LF MIN.
USE 3 46.75' LONG TRENCHES = 140.25 LF
 - 2ND REPLACEMENT 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
11' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3" WIDTH = 250 LF x 0.42 (SIDEWALL REDUCTION) = 105 LF MIN.
USE 2 52.50' LONG TRENCHES = 52.50 LF

WELL LOCATION CERTIFICATION:

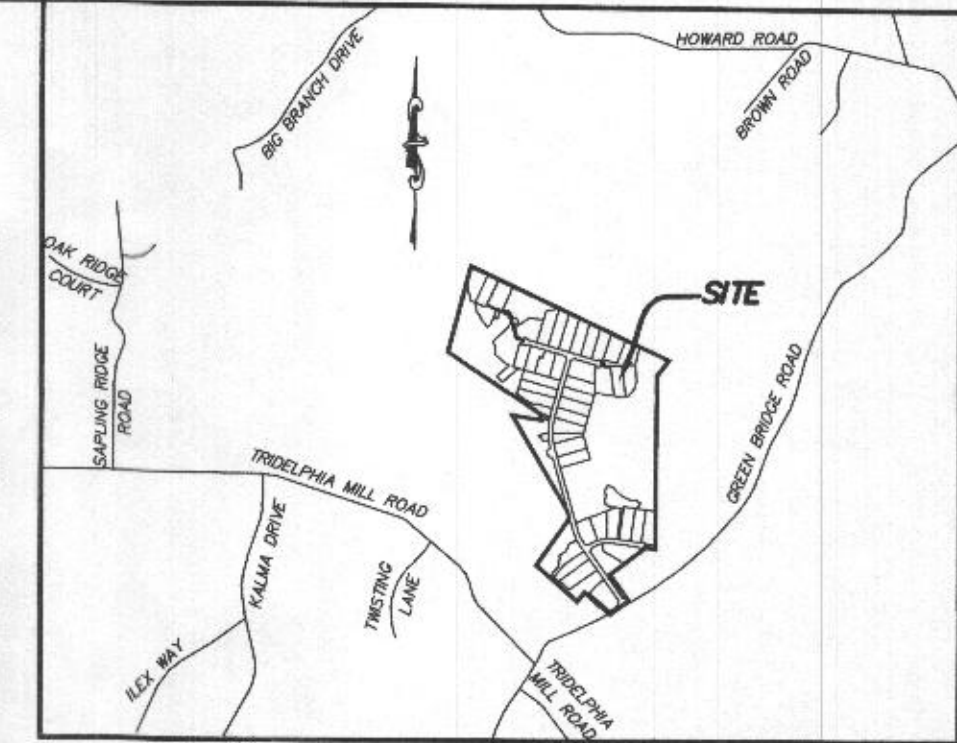
THE EXISTING WELL SHOWN FOR LOT 24 (TAG NO. HO-18-0047) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 24
WILLOWSHIRE
LIBER 18479, FOLIO 296
PLAT NO. 25505
ELECTION DISTRICT No. 5
HOWARD COUNTY, MARYLAND
ADDRESS: 7005 COLT PLACE
DAYTON, MARYLAND 21036

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

DATE: 10/25/2022 SCALE: 1"=30' FILE: OSDS LOT 24
CHK'D: M.J.B. JOB NO: 4520 DRAWN: R.C.K.

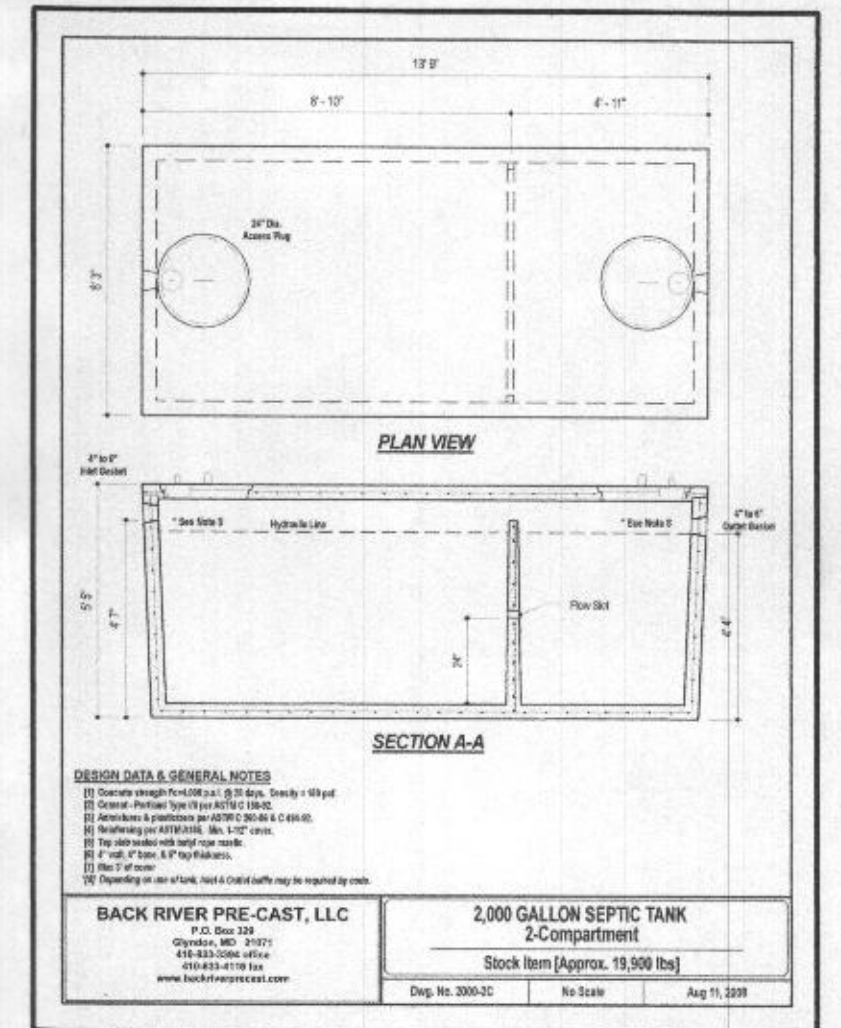
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/23.



VICINITY MAP
1" = 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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- 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 "I" 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. Overall length 19'-0" x 8'-0" x 6'-0"
2. Overall width 8'-0" x 8'-0" x 6'-0"
3. Depth 6'-0" (to top of tank)
4. Material 20 gauge galvanized steel
5. All steel work to be painted
6. All steel work to be galvanized
7. All steel work to be painted
8. All steel work to be galvanized

BACK RIVER PRE-CAST, LLC
P.O. Box 132
Dayton, MD 21037
410-872-9105
www.backriverprecast.com

2,000 GALLON SEPTIC TANK
2-Compartment
Stock Item [Approx. 19,900 lbs]
Dep. No. 2000-20 No. Scale Aug 11, 2008

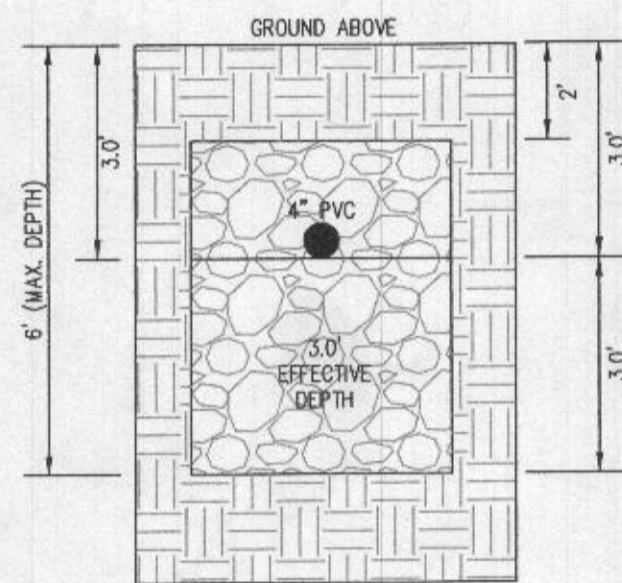
HOUSE OPTIONS:

HOUSE TYPE: PARKHURST (MODERN FARMHOUSE)

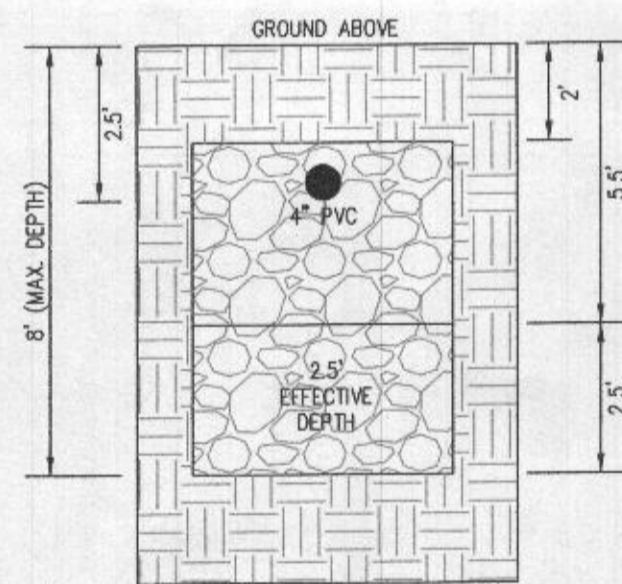
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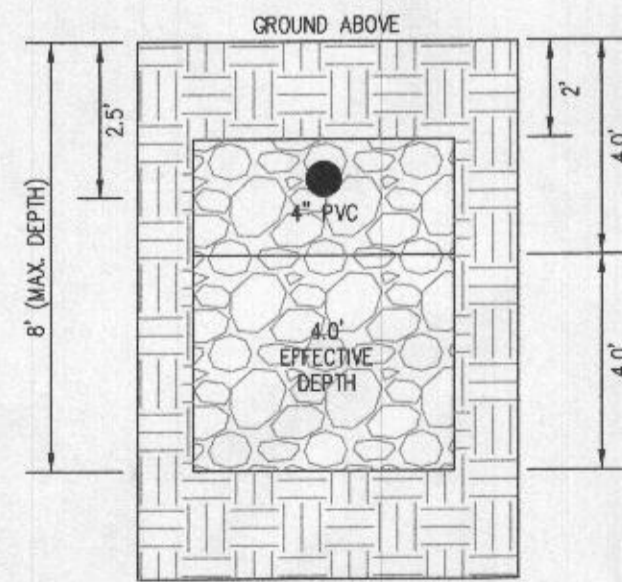
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TRENCH DETAIL (T1) THRU (T5)
(NOT TO SCALE)



1ST REPLACEMENT SYSTEM
TRENCH DETAIL (T6 AND T8)
(NOT TO SCALE)

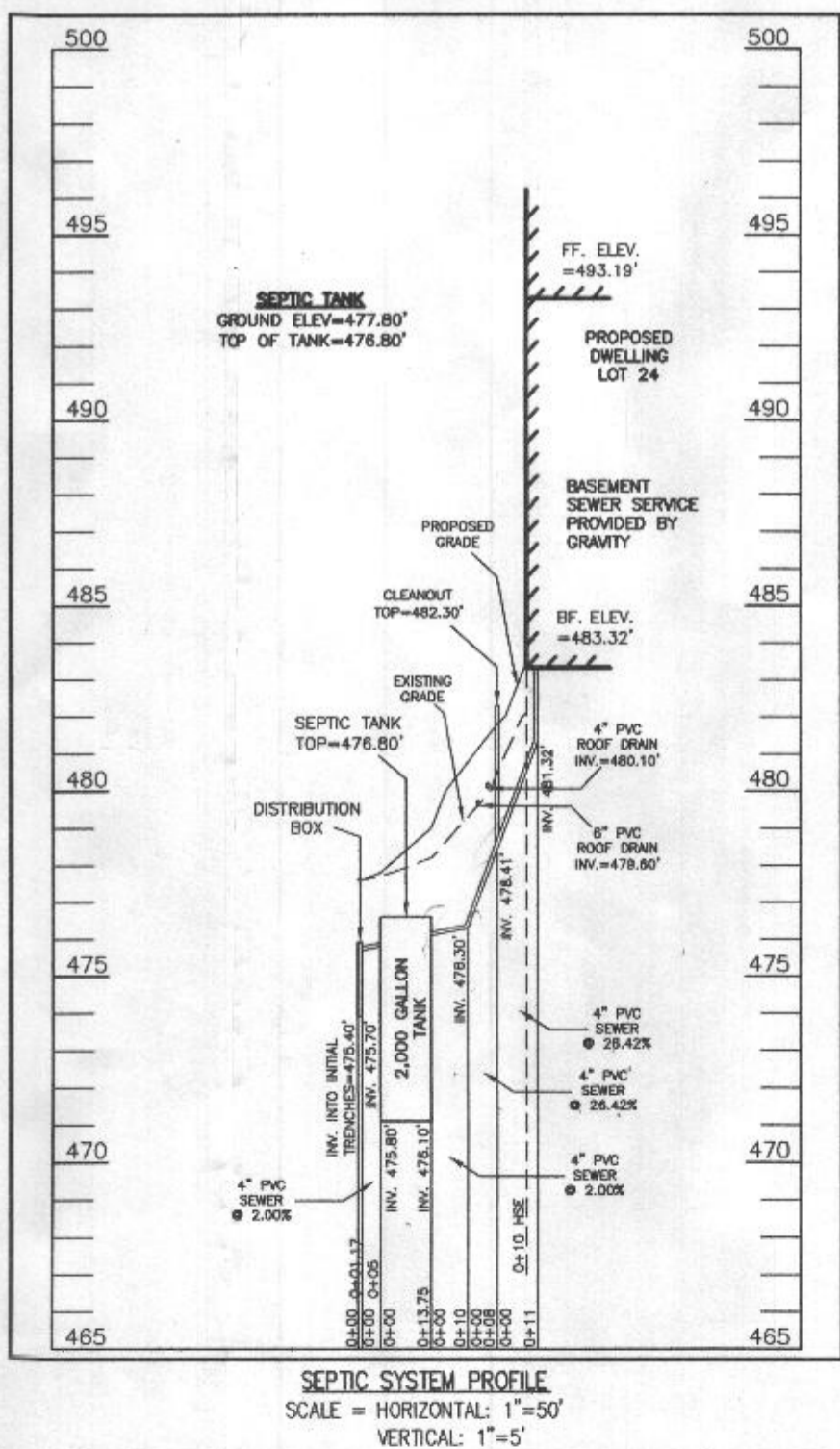


2ND REPLACEMENT SYSTEM
TRENCH DETAIL (T9 AND T10)
(NOT TO SCALE)

- LEGEND:**
- BRL (Symbol) BUILDING RESTRICTION LINE
 - (Symbol) WELL LOCATION
 - T.W. (Symbol) TOP OF WALL
 - G.F. (Symbol) GARAGE FLOOR
 - B.F. (Symbol) BASEMENT FLOOR
 - (Symbol) PASSED PERC LOCATION
 - (Symbol) FAILED PERC LOCATION
 - (Symbol) SEWAGE DISPOSAL AREA
 - (Symbol) WELL BOX AREA
 - (Symbol) SOIL DELINEATION LINE

SOILS LEGEND

SOIL	NAME	CLASS	Kw
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.28
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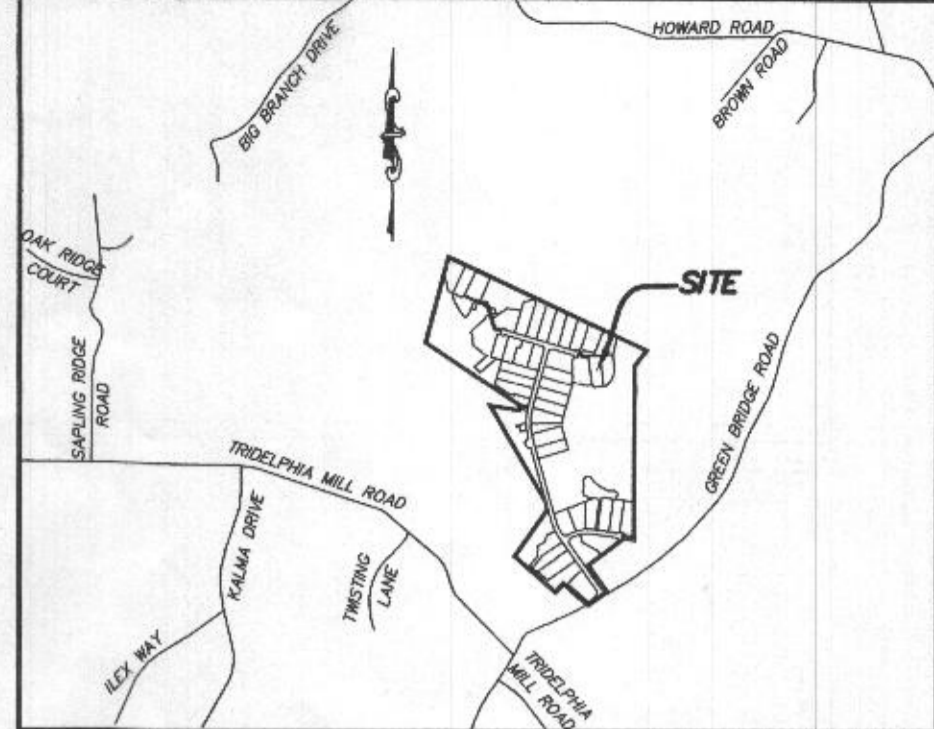
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LOT 24
WILLOWSHIRE
LIBER 18479, FOLIO 296
PLAT NO. 25505
ELECTION DISTRICT No. 5
HOWARD COUNTY, MARYLAND
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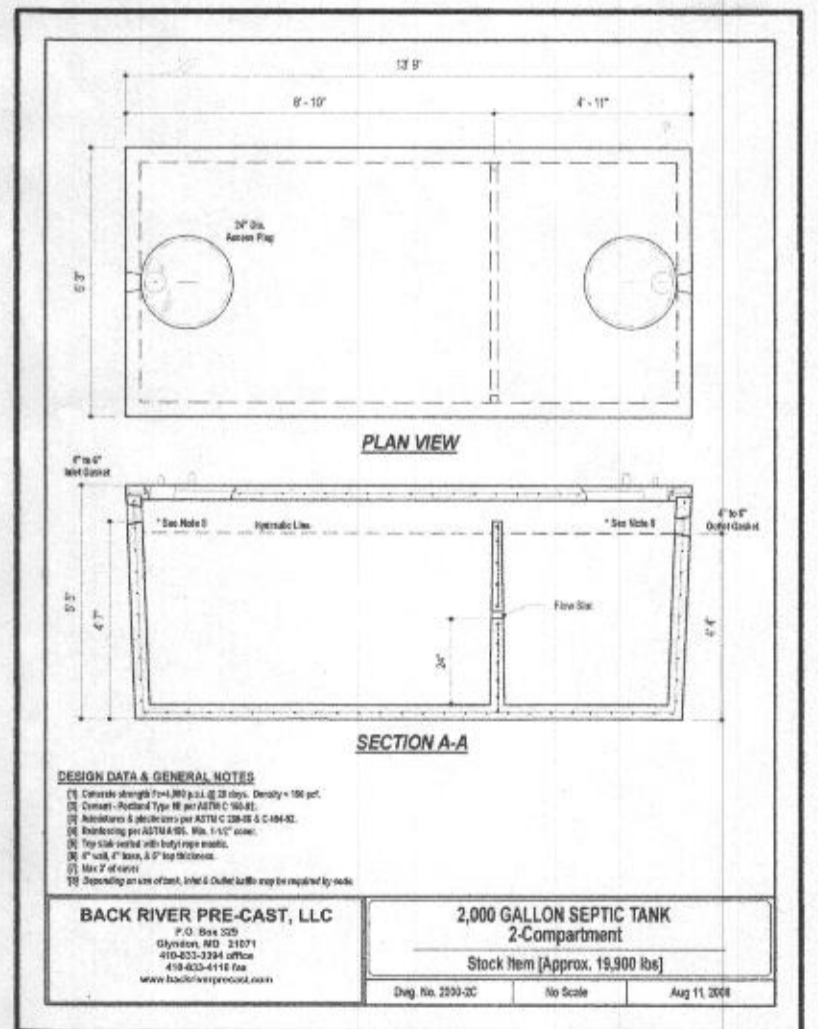


VICINITY MAP

1" = 2000'
TAX MAP 27, GRID 18

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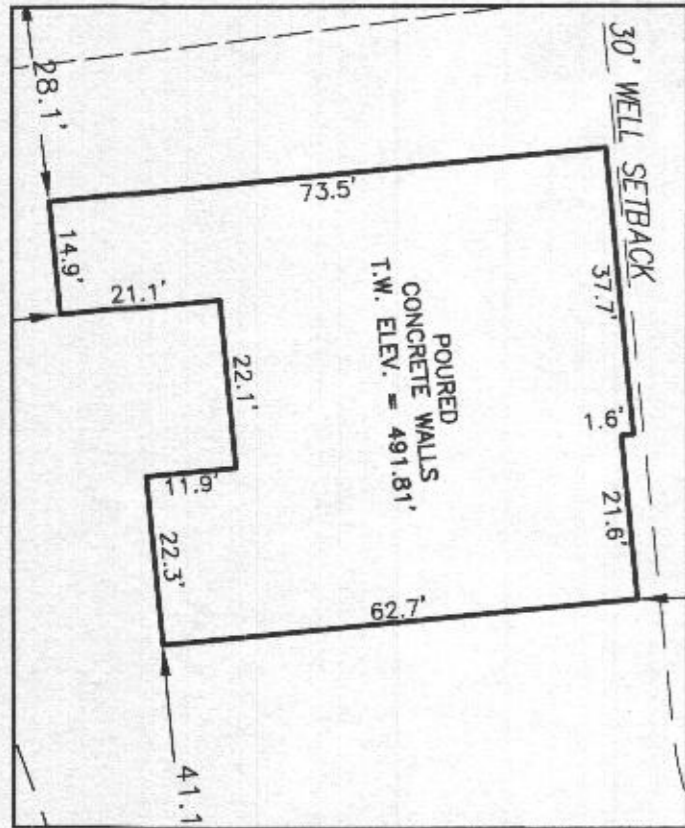
ESE CONSULTANTS
ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

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

DATE: 10/25/2022 SCALE: 1" = 30' FILE: OSDS LOT 24
CHK'D: M.J.B. JOB NO: 4520 DRAWN: R.C.K.

LEGEND:

- BRL BUILDING RESTRICTION LINE
- W WELL LOCATION
- T.W. TOP OF WALL
- SEPTIC RESERVE AREA
- WELL BOX AREA

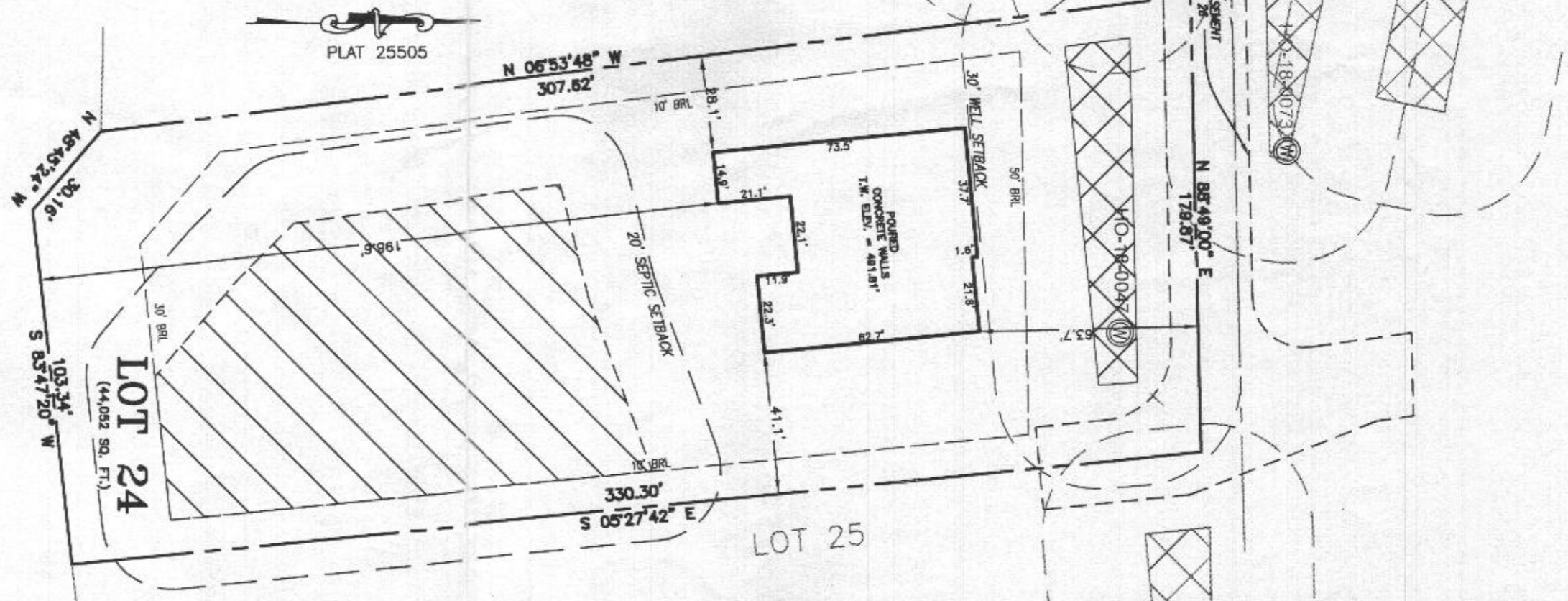


HOUSE ENLARGEMENT
NOT TO SCALE

WELL NUMBER: HO-18-0047
 ADDRESS: 7005 COLT PLACE
 DAYTON, MD 21036
 PERMIT No.: B21002776

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

BUILDABLE
PRESERVATION PARCEL C



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 9/20/22
 SIGNATURE: MICHAEL JOE BOYCE MD. LIC NO. DATE

WALLCHECK
 LOT 24
 WILLOWSHIRE
 LIBER 18479, FOLIO 296
 PLAT NO. 25505
 5th ELECTION DISTRICT
 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: 09/20/2022
 CHK'D: M.J.B.

SCALE: 1" = 40'
 JOB NO: 4520

FILE: WC LOT 24
 DRAWN: V.X.P.

