

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: 12/1/21 **ONSITE SEWAGE DISPOSAL SYSTEM** P 570864
 APPROVAL DATE: 01/06/2022 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 6038 BRICKER ROAD, DAYTON, MD 21036
 SUBDIVISION: WILLOWSHIRE LOT: 18 TAX ID: 03-603006
 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: Sriley1@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>105</u>	INLET DEPTH: <u>4.0</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 CLEANOUTS IN SHC AS ILLUSTRATED.	

ISSUED BY: R BRICKER ^{4.0} ISSUE DATE: N.A. ^{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

SEE ATT

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES		3
TOTAL LENGTH		108 F
ABSORPTION AREA		324 sq ft 4' SIDE WALL
DISTRIBUTION BOX LEVEL		SPROD WALL
DISTRIBUTION BOX BAFFLE		CONC
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	SAMSON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	2.5'
BAFFLES	YES
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	11/23/2021
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:

12/29/2021 CONF. TANK LOCATIONS. STRAIGHTENED 3x35' TRS. CONCRETE BOX. OK ± 6".

INSTALLATION:

01/04/2022 INSTALLED SL; SET TANKS w/ BAFFLES. SET D BOX. 01/06/2022 TRENCHES COMPLETE. INSTALLED 3x36' TRS. (PMW) LEVELLED D BOX w/ SPROD LEVELS.

FINAL INSPECTOR

[Handwritten signature]

DATE OF APPROVAL

01/06/2022

NOT TO SCALE

~ 1:30

LOT 19

WB. HO-18-0042

100' WELL ARE

PROP LINE

DRIVE

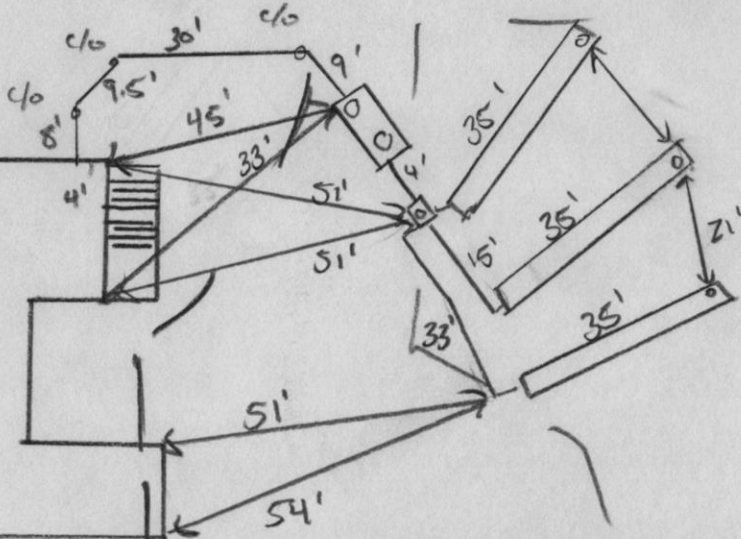
SDA

WELL BOX

HOUSE

HO-18-0041

33'
48'



100' WELL ARECS

PROP LINE

LOT 17

WB.

6038 BRICKER ROAD - LOT 18

HOUSE OPTIONS:

HOUSE TYPE: PARKHURST (CRAFTSMAN)

- TWO CAR SIDE ENTRY GARAGE
- DAYLIGHT BASEMENT
- MULTI-GENERATIONAL SUITE ADDITION
- OPTIONAL DROP ZONE
- WET BAR ROUGH-IN IN BASEMENT
- SINGLE WIDE DRIVEWAY TAIL

- OPTION NO. 012
- OPTION NO. 018
- OPTION NO. 263073
- OPTION NO. 263081
- OPTION NO. 90018001
- OPTION NO. 852

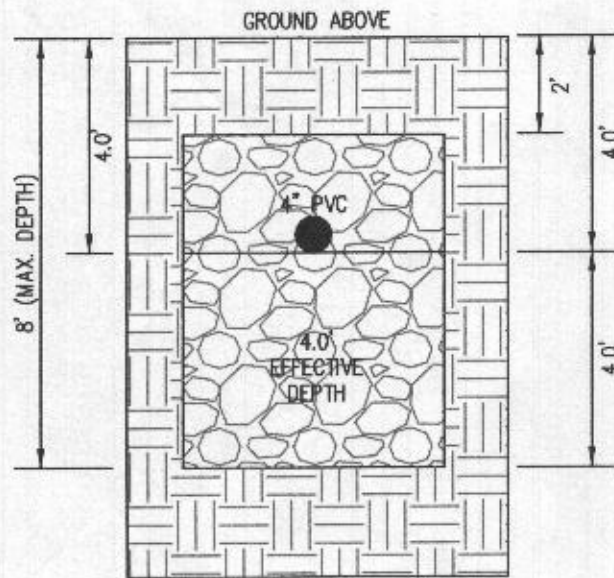
INITIAL TRENCH DATA

BOTTOM MAX. DEPTH (8')

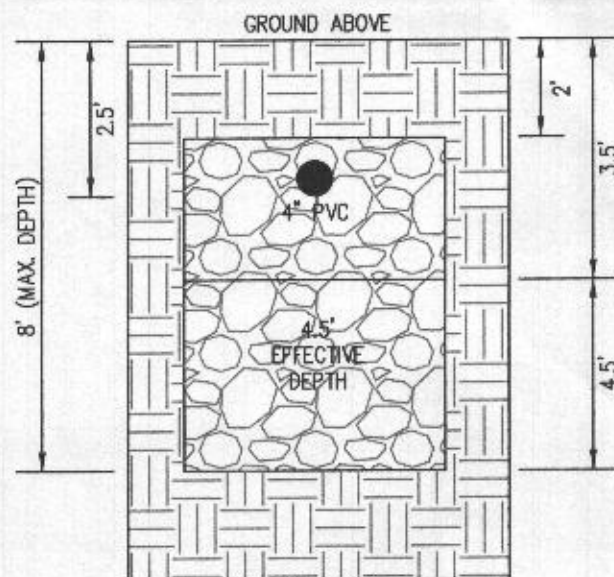
TRENCH 1 (T1): 37.50 L.F.
 GROUND ABOVE = 494.40'
 INV. IN = 490.40'
 BOTTOM TRENCH = 486.40'

TRENCH 2 (T2): 37.50 L.F.
 GROUND ABOVE = 493.30'
 INV. IN = 489.30'
 BOTTOM TRENCH = 485.30'

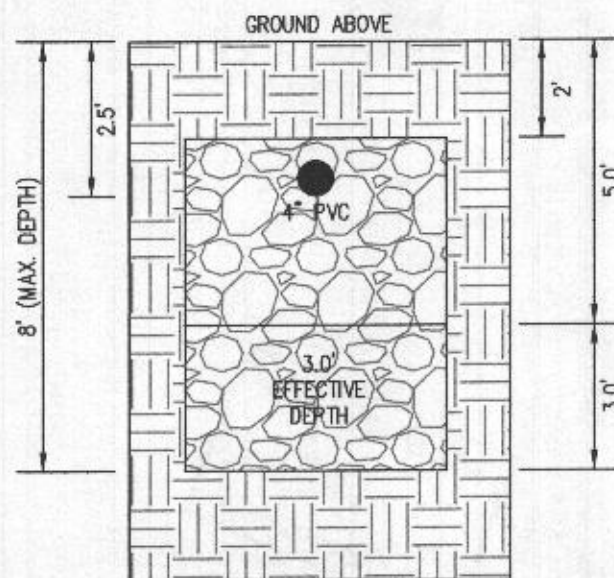
TRENCH 3 (T3): 37.50 L.F.
 GROUND ABOVE = 491.70'
 INV. IN = 487.70'
 BOTTOM TRENCH = 483.70'



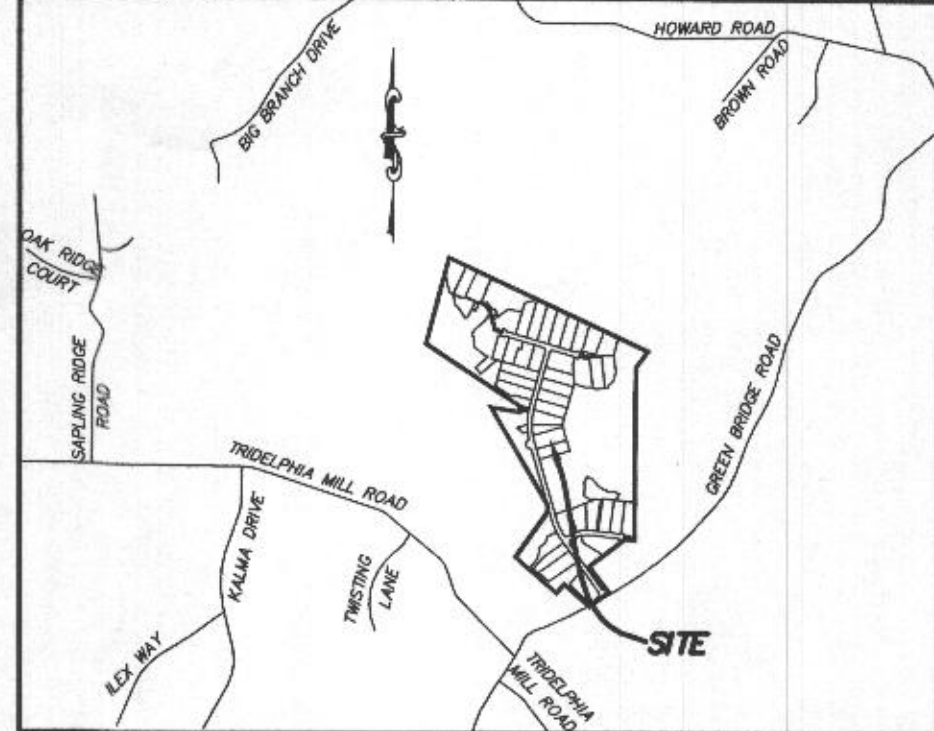
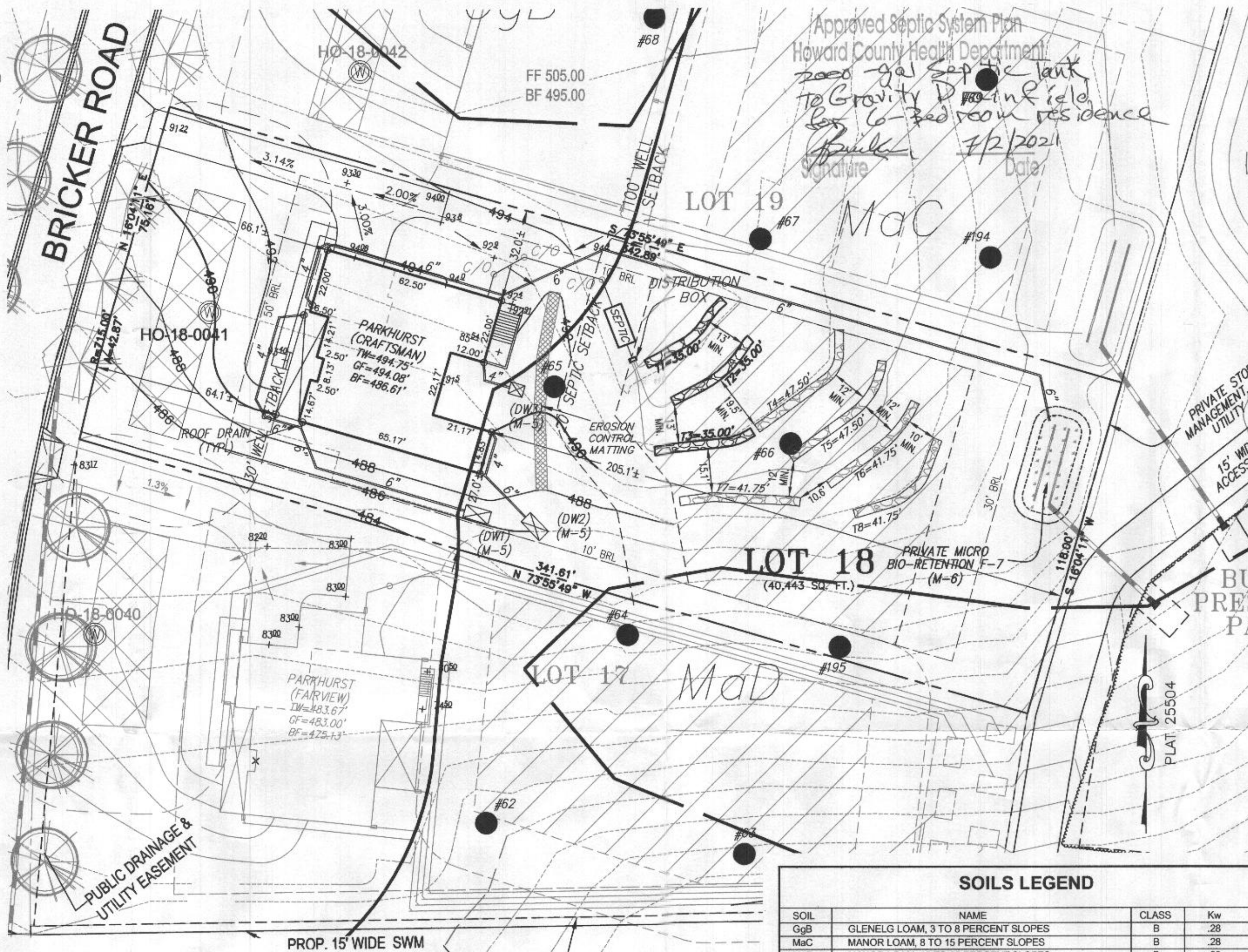
INITIAL SYSTEM TRENCH DETAIL (T1) THRU (T3) (NOT TO SCALE)



1ST REPLACEMENT SYSTEM TRENCH DETAIL (T4 AND T5) (NOT TO SCALE)



2ND REPLACEMENT SYSTEM TRENCH DETAIL (T6 THRU T8) (NOT TO SCALE)



VICINITY MAP

1" = 2000'
 TAX MAP 27, GRID 18

GENERAL NOTES:

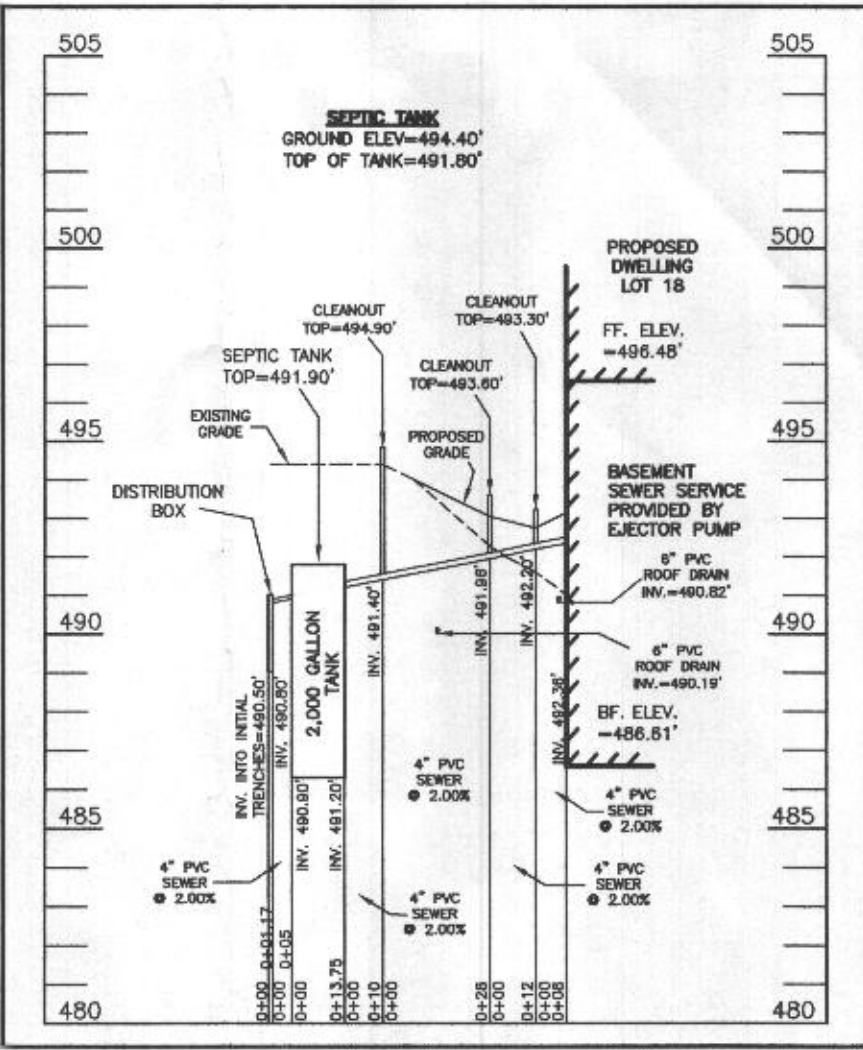
1. THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION 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 (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.
11. 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.

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
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	.28

SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: 492.38'
1. EX. GRADE OVER TANK: 494.40'
 PROPOSED GRADE OVER TANK: 494.40'
 INVERT IN: 491.20' INVERT OUT: 490.90'
 2. DISTRIBUTION BOX
 EXISTING GRADE OVER TANK: 494.40'
 PROPOSED GRADE OVER TANK: 494.40'
 INVERT IN: 490.80' INVERT OUT: 490.50'
 3. INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
 900 GPD ÷ 1.2 APP. RATE = 750 SF
 USE 3" WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
 13' MIN. SPACING BETWEEN TRENCH EDGES
 750 SF ÷ 3' WIDTH = 250 LF x 0.42 (SIDEWALL REDUCTION) = 105 LF MIN.
 USE 3 35.00' LONG TRENCHES = 105 LF
 4. 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
 12' MIN. SPACING BETWEEN TRENCH EDGES
 750 SF ÷ 3' WIDTH = 250 LF x 0.38 (SIDEWALL REDUCTION) = 95 LF MIN.
 USE 2 47.50' LONG TRENCHES = 95 LF
 5. 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
 10' MIN. SPACING BETWEEN TRENCH EDGES
 750 SF ÷ 3' WIDTH = 250 LF x 0.50 (SIDEWALL REDUCTION) = 125 LF MIN.
 USE 3 41.75' LONG TRENCHES = 125 LF

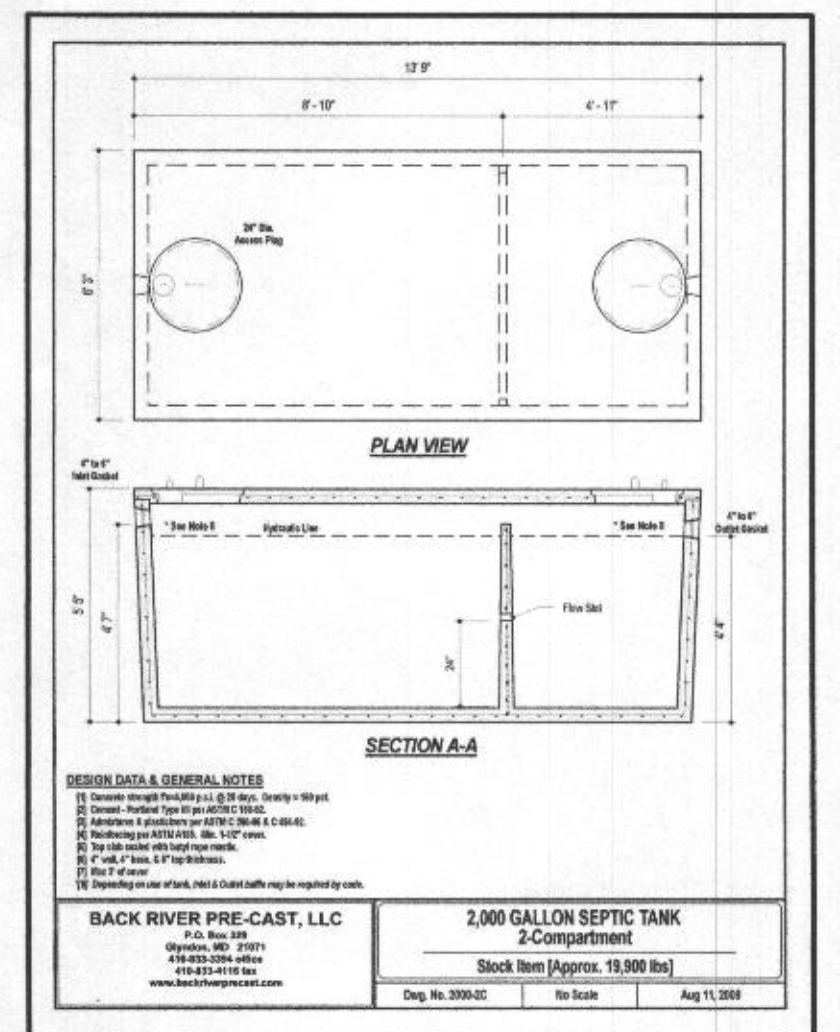


SEPTIC SYSTEM PROFILE
 SCALE = HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'



WELL LOCATION CERTIFICATION:
 THE EXISTING WELL SHOWN FOR LOT 18 (TAG NO. HO-18-0041) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 18
WILLOWSHIRE
 LIBER 18479, FOLIO 296
 PLAT NO. 25504
 ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND
 ADDRESS: 6038 BRICKER ROAD
 DAYTON, MARYLAND 21036

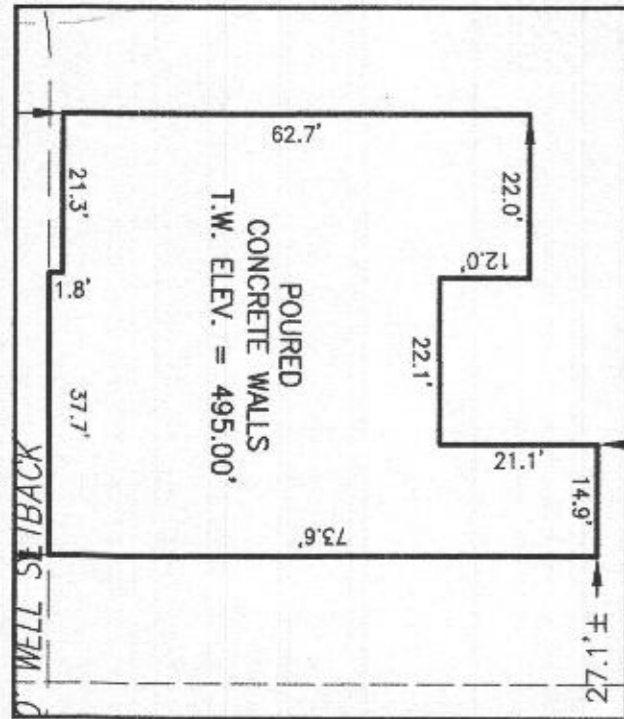


ESE CONSULTANTS
 ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL
 ESE Consultants, Inc.
 7164 Columbia Gateway Drive • Suite 230 • Columbia, MD 21046
 T: 410-872-9105

DATE: 06/13/2021 SCALE: 1"=30' FILE: OSDS LOT 18
 CHK'D: M.J.B. JOB NO: 4520 DRAWN: R.C.K.

LEGEND:

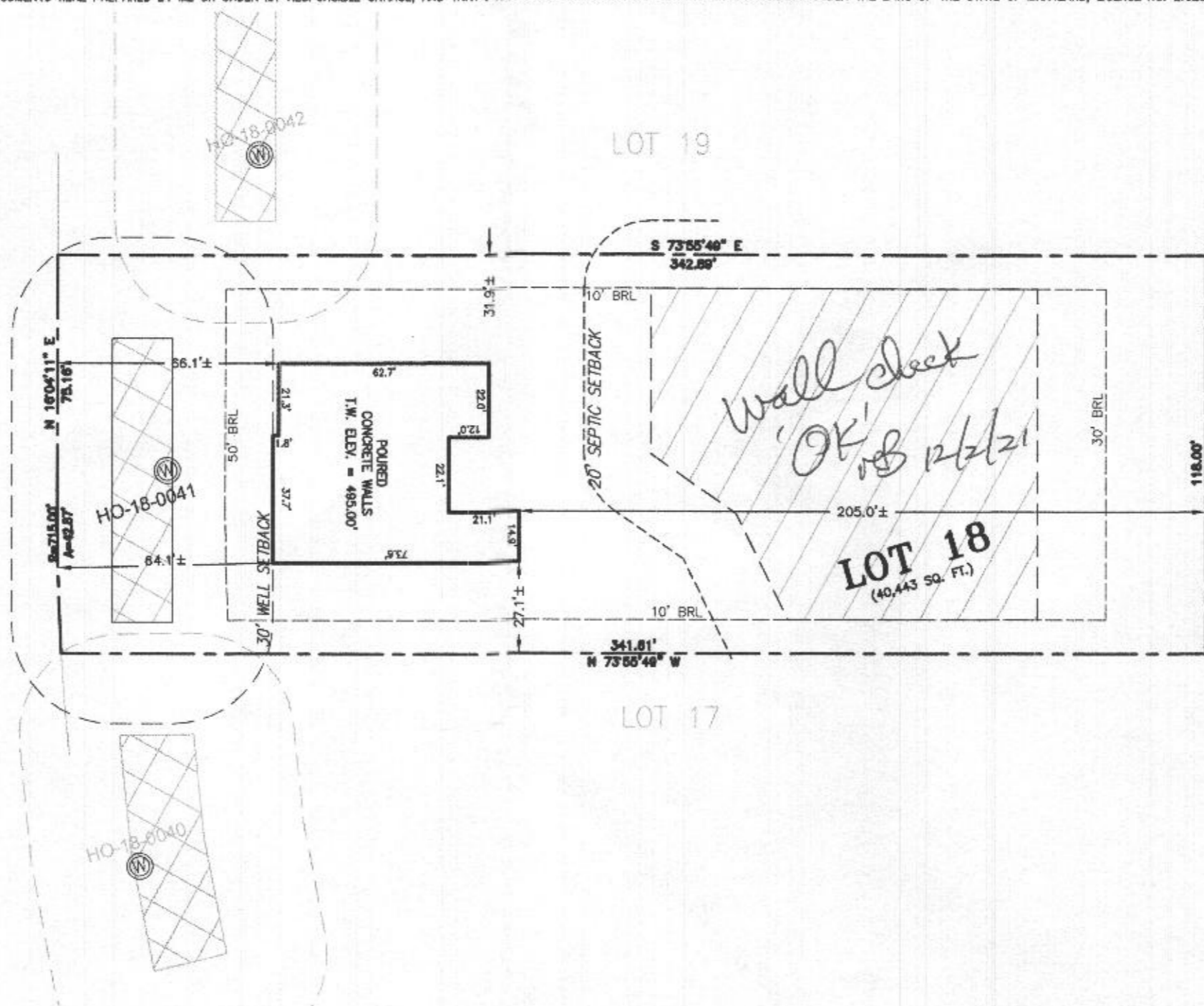
- BRL BUILDING RESTRICTION LINE
- ⊙ WELL LOCATION
- T.W. TOP OF WALL
- [Hatched Box] SEWAGE DISPOSAL AREA
- [Hatched Box] WELL BOX AREA



HOUSE ENLARGEMENT
NOT TO SCALE

WELL NUMBER: HO-18-0041
 ADDRESS: 6038 BRICKER ROAD
 DAYTON, MD 21036
 PERMIT NO.: B21002237

BRICKER ROAD



BUILDABLE
PRESERVATION
PARCEL C



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 11/14/21
 SIGNATURE: MICHAEL JOE BOYCE MD. LIC NO. DATE

WALLCHECK
 LOT 18
WILLOWSHIRE
 LIBER 18479, FOLIO 296
 PLAT NO. 25504
 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: 11/14/2021
 CHK'D: M.J.B.

SCALE: 1" = 40'
 JOB NO: 4520

FILE: WC LOT 18
 DRAWN: V.X.P.

