

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: 6/23/22 **ONSITE SEWAGE DISPOSAL SYSTEM** P 572053
 APPROVAL DATE: 08/10/2022 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 6045 BRICKER ROAD, DAYTON, MD 21036
 SUBDIVISION: WILLOWSHIRE LOT: 44 TAX ID: 05-603032
 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: nbrandenburg@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>95</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>12</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.5</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 THREE (3) CLEANOUTS IN SHC, AS ILLUSTRATED.	

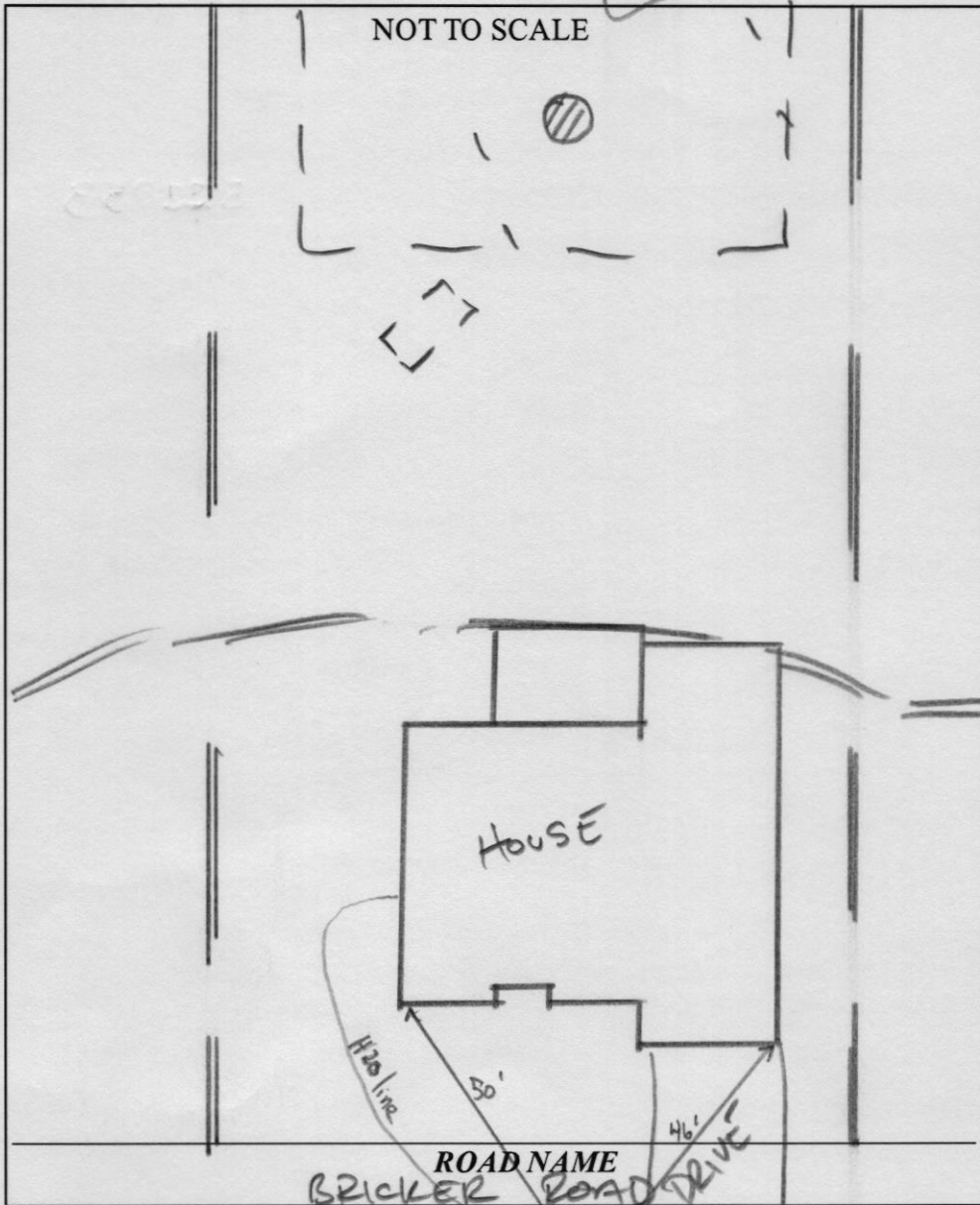
ISSUED BY: R BRICKER *H.O.* ISSUE DATE: 7/18/22 EXPIRATION DATE: 7/18/23

- 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.**

11:30

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH _____ INLET _____ BOTTOM _____

NUMBER OF TRENCHES _____

TOTAL LENGTH _____

ABSORPTION AREA _____

DISTRIBUTION BOX LEVEL _____

DISTRIBUTION BOX BAFFLE _____

DISTRIBUTION BOX PORT _____

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL _____

MANUFACTURER BACK RIVER

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH 1'

BAFFLES _____

BAFFLE FILTER _____

MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED _____

DATE ON LID 07/29/2022

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 _____

PRE-CONSTRUCTION:

HO-18-0081

INSTALLATION: 08/08/2022 TANK + SAC SET w NO PRECON. 08/09/2022 CONSTRUCT LOWER + MID TRENCH. 08/10/2022 UPPER TRENCH COMPLETE D BOX LEVELED w/ SPREAD LEVELS.

FINAL INSPECTOR

DATE OF APPROVAL

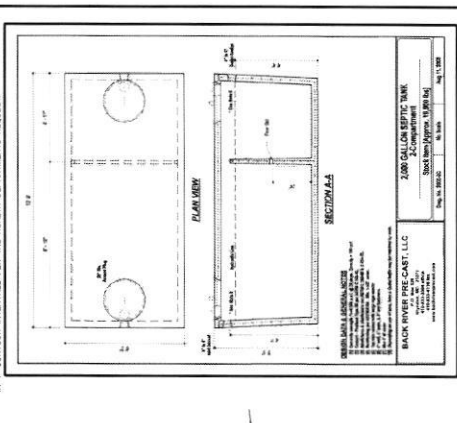
08/10/2022

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. 21028, EXPIRATION DATE 1/9/23.



VICINITY MAP
1" = 200'
TAX MAP 27, GRID 18

- GENERAL NOTES:**
- THESE ARE ASSIGNED TO 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. THE MARYLAND DEPARTMENT OF THE ENVIRONMENT SHALL BE NOTIFIED BY THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE AREA, REDEMPTION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
 - EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE 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.S.) SHOWN HEREON PER SITE DEVELOPMENT PLAN. SETBACK DISTANCES SHOWN HEREON AS "S" HAVE AN ACCURACY OF 40.1' 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 COMPLES 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 REVISION ON 09/03/15.
 - THE EXISTING TOPOGRAPHY SHOWN AT THE REAR OF THE SEPTIC DISPOSAL AREA WAS FIELD LOCATED BY ESE CONSULTANTS, INC. ON 10/27/2021 AND IS SHOWN IN 1' CONTOUR INTERVALS PER THE HEALTH DEPARTMENT'S REQUEST.



ESE CONSULTANTS
ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL
ESE Consultants, Inc.
6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046
T: 410-672-9106
DATE: 03/21/2022 SCALE: 1" = 30'
JOB NO: 4520 DRAWN: R.C.K.

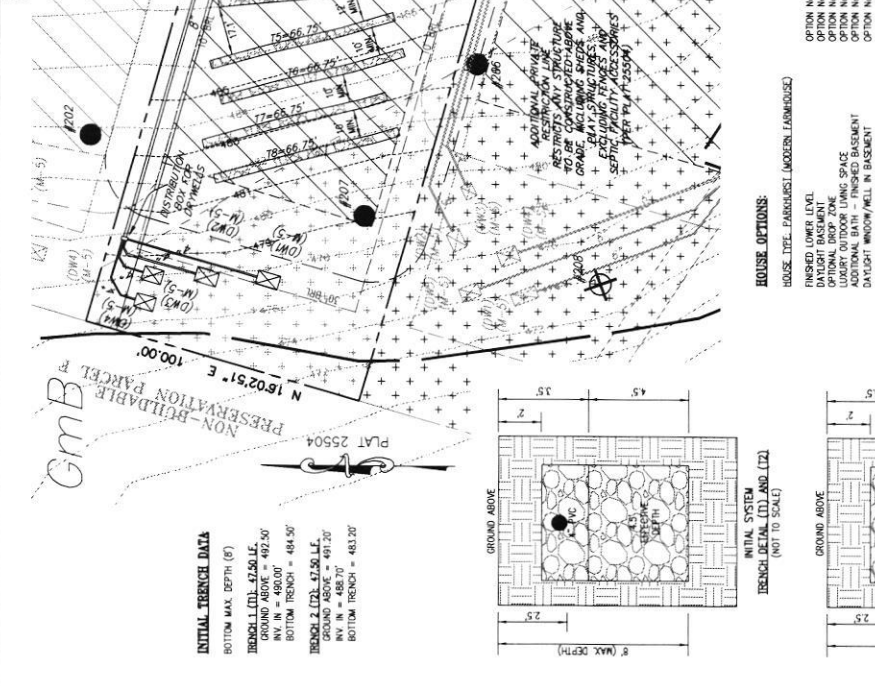


SOILS LEGEND

SOIL	NAME	CLASS	Kw
GMB	GLENHELG LOAM, 3 TO 8 PERCENT SLOPES	B	28
GMB	GLENHELG SILT LOAM, 3 TO 8 PERCENT SLOPES	B	43
MBC	MAJOR LOAM, 8 TO 15 PERCENT SLOPES	B	25

- LEGEND:**
- BUILDING RESTRICTION LINE
 - TOP OF WALL
 - GARAGE FLOOR
 - BASMENT FLOOR
 - PASSED PERC. LOCATION
 - FAILED PERC. LOCATION
 - SEWAGE DISPOSAL AREA
 - WELL BOB AREA
 - ADDITIONAL PRIVATE RESTRICTION AREA
 - PROPOSED TRENCH
 - SOIL DELINEATION LINE
- WELL LOCATION CERTIFICATION:**
- THE EXISTING WELL SHOWN FOR LOT 44 (TAG NO. HO-18-0087) HAS BEEN FIELD LOCATED AND IS ADEQUATELY SHOWN HEREON.

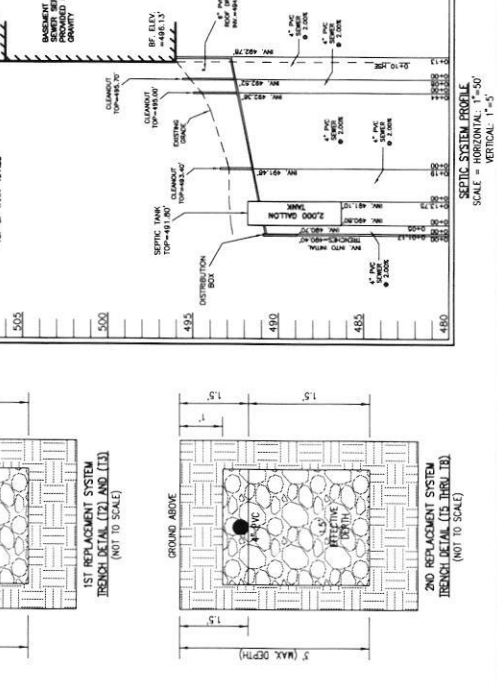
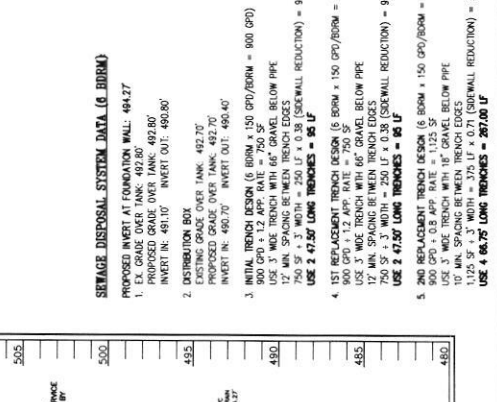
ON-SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 44
WILLOWSHIRE
LIBER 18479, FOLIO 296
PLAT NO. 25504
ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND
ADDRESS: 6045 BRICKER ROAD
DAYTON, MARYLAND 21036



SEWAGE DISPOSAL SYSTEM DATA (G. 0308A)

PROPOSED INVERT AT FOUNDATION WALL: 494.27

- EX. GRADE OVER TANK: 492.80
PROPOSED GRADE OVER TANK: 492.80
INVERT IN: 491.10 INVERT OUT: 490.30
- DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 492.70
PROPOSED GRADE OVER TANK: 492.70
INVERT IN: 490.70 INVERT OUT: 490.40
- INITIAL TRENCH DESIGN (6 BOM x 150 GPD/BOM = 900 GPD)
USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
17" MIN. SPACING BETWEEN TRENCH EDGES
750 SF x 3" WIDTH = 2250 LF x 0.38 (SIDEWALL REDUCTION) = 855 LF MIN
USE 4" 47.50" LONG TRENCHES = 95 LF
- 1ST REPLACEMENT TRENCH DESIGN (6 BOM x 150 GPD/BOM = 900 GPD)
900 GPD x 1.2 APP. RATE = 750 SF
USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
17" MIN. SPACING BETWEEN TRENCH EDGES
750 SF x 3" WIDTH = 2250 LF x 0.38 (SIDEWALL REDUCTION) = 855 LF MIN
USE 4" 47.50" LONG TRENCHES = 95 LF
- 2ND REPLACEMENT TRENCH DESIGN (6 BOM x 150 GPD/BOM = 900 GPD)
900 GPD x 0.8 APP. RATE = 675 SF
USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
17" MIN. SPACING BETWEEN TRENCH EDGES
1025 SF x 3" WIDTH = 3075 LF x 0.21 (SIDEWALL REDUCTION) = 266.25 LF MIN
USE 4" 47.50" LONG TRENCHES = 207.00 LF

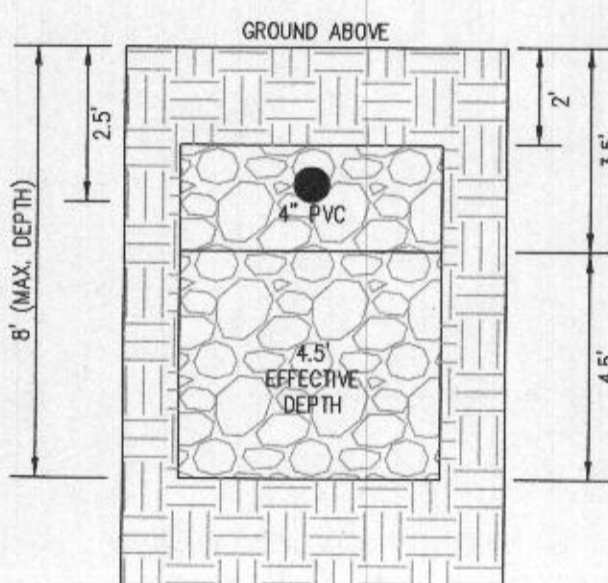


OS-SP-AP-22-00165

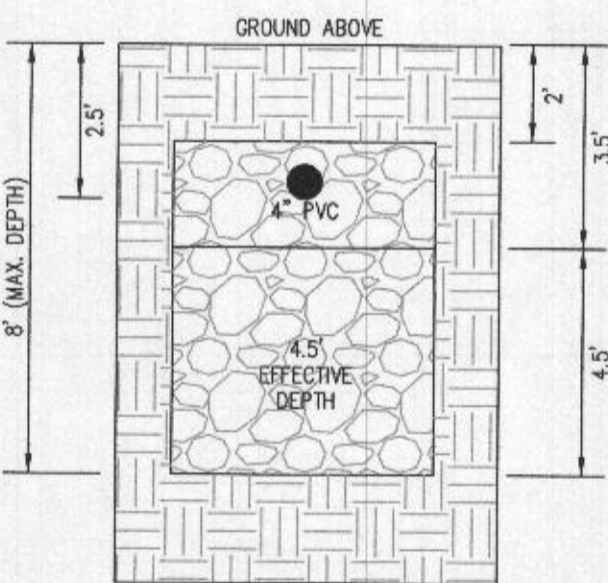
GmB
NON-BUILDABLE PRESERVATION PARCEL F
PLAT 25504
N 16°02'51" E 100.00'

INITIAL TRENCH DATA:

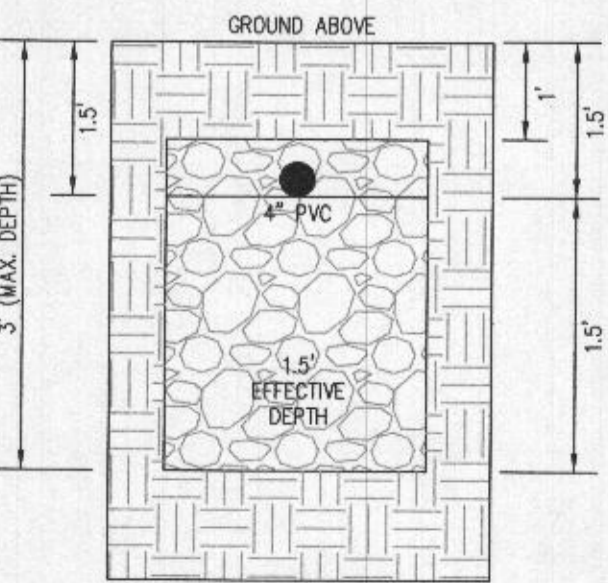
BOTTOM MAX. DEPTH (8')
TRENCH 1 (T1): 47.50 LF.
 GROUND ABOVE = 492.50'
 INV. IN = 490.00'
 BOTTOM TRENCH = 484.50'
TRENCH 2 (T2): 47.50 LF.
 GROUND ABOVE = 491.20'
 INV. IN = 488.70'
 BOTTOM TRENCH = 483.20'



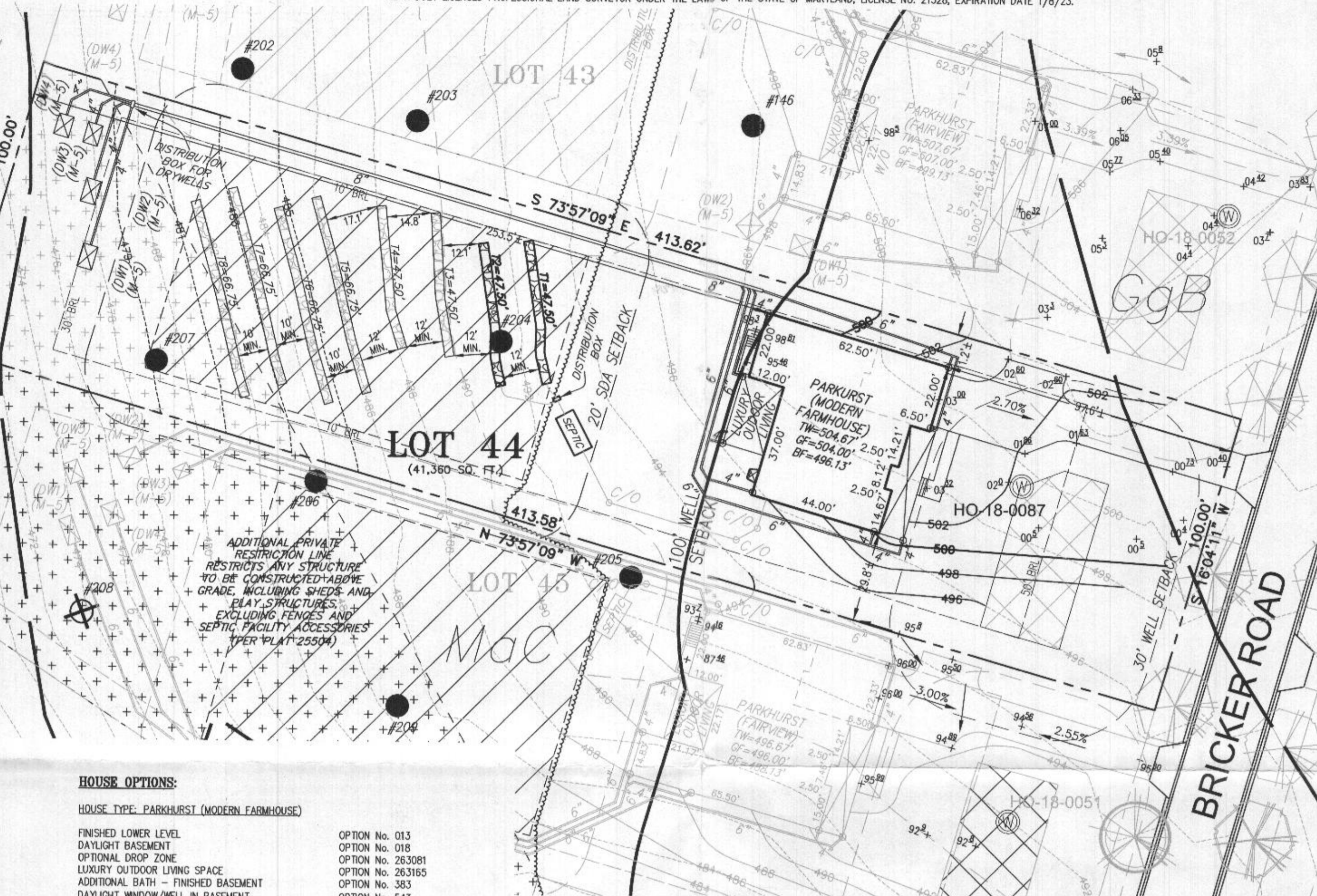
INITIAL SYSTEM
TRENCH DETAIL (T1) AND (T2)
(NOT TO SCALE)



1ST REPLACEMENT SYSTEM
TRENCH DETAIL (T2) AND (T3)
(NOT TO SCALE)



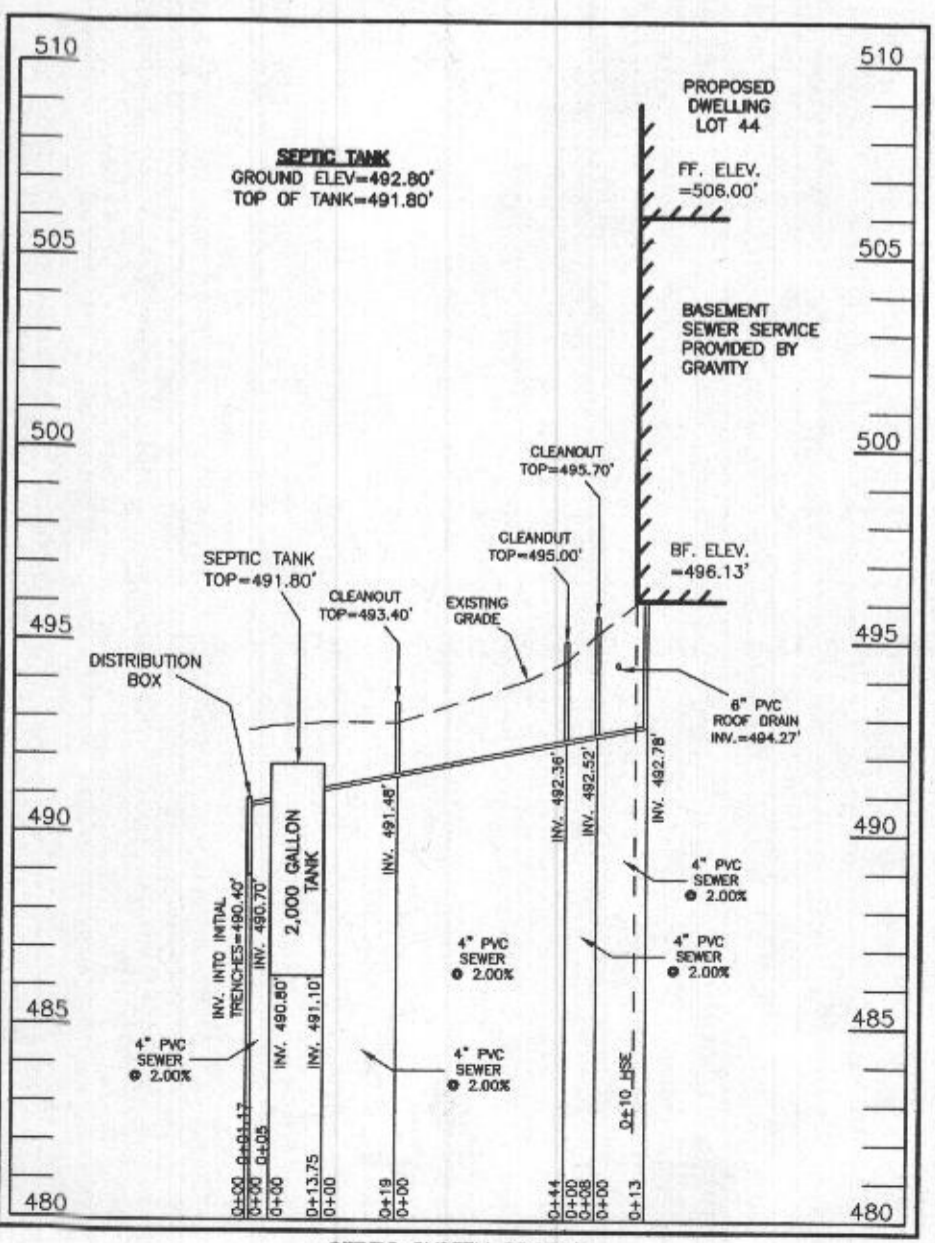
2ND REPLACEMENT SYSTEM
TRENCH DETAIL (T5 THRU T8)
(NOT TO SCALE)



HOUSE OPTIONS:

HOUSE TYPE: PARKHURST (MODERN FARMHOUSE)
 FINISHED LOWER LEVEL
 DAYLIGHT BASEMENT
 OPTIONAL DROP ZONE
 LUXURY OUTDOOR LIVING SPACE
 ADDITIONAL BATH - FINISHED BASEMENT
 DAYLIGHT WINDOW/WELL IN BASEMENT

- OPTION No. 013
- OPTION No. 018
- OPTION No. 263081
- OPTION No. 263165
- OPTION No. 383
- OPTION No. 543



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

Approved Septic System Plan
 Howard County Health Department
 2000-gallon Septic Tank
 to Gravity Drain Field
 for 6-Bedroom residence
 Rhinck 4/1/2022
 Signature Date

SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: 494.27'
1. EX. GRADE OVER TANK: 492.80'
 PROPOSED GRADE OVER TANK: 492.80'
 INVERT IN: 491.10' INVERT OUT: 490.80'
2. DISTRIBUTION BOX
 EXISTING GRADE OVER TANK: 492.70'
 PROPOSED GRADE OVER TANK: 492.70'
 INVERT IN: 490.70' INVERT OUT: 490.40'
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 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
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 ÷ 0.8 APP. RATE = 1,125 SF
 USE 3' WIDE TRENCH WITH 18" GRAVEL BELOW PIPE
 10' MIN. SPACING BETWEEN TRENCH EDGES
 1,125 SF ÷ 3' WIDTH = 375 LF x 0.71 (SIDEWALL REDUCTION) = 266.25 LF MIN.
 USE 4 66.75' LONG TRENCHES = 267.00 LF

SOILS LEGEND

SOIL	NAME	CLASS	Kw
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.28
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	B	.43
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.28

LEGEND:

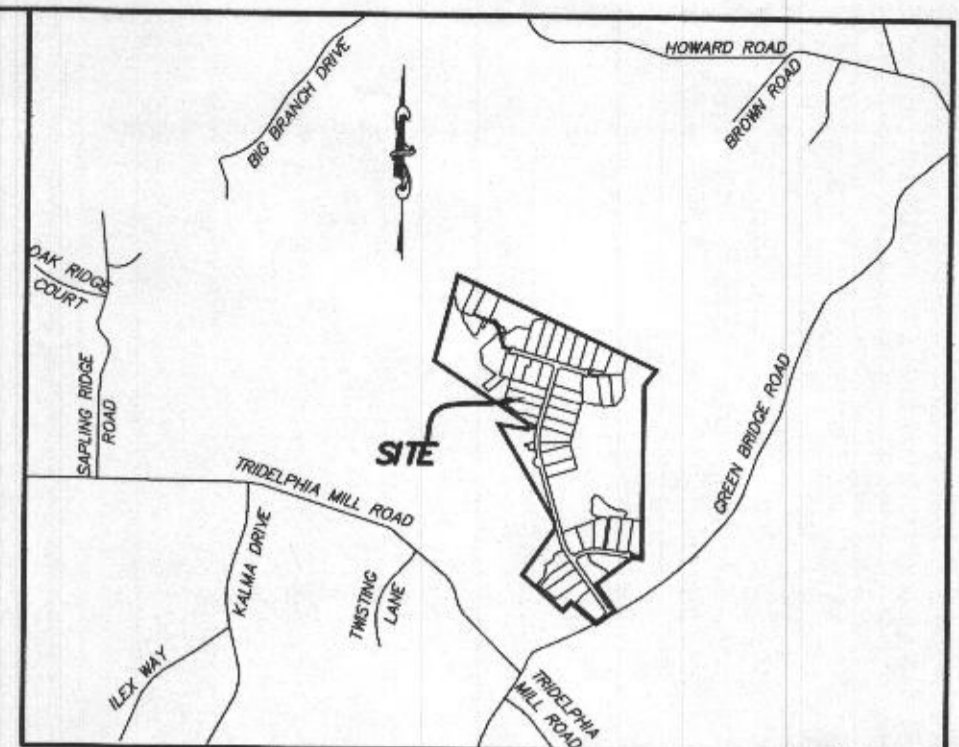
- BRL BUILDING RESTRICTION LINE
- WELL LOCATION
- T.W. TOP OF WALL
- G.F. GARAGE FLOOR
- B.F. BASEMENT FLOOR
- DW DRYWELL
- PASSED PERC LOCATION
- FAILED PERC LOCATION
- ▨ SEWAGE DISPOSAL AREA
- ▩ WELL BOX AREA
- ▤ ADDITIONAL PRIVATE RESTRICTION AREA
- ▥ PROPOSED TREE
- ▦ PROPOSED TREE
- SOIL DELINEATION LINE



WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 44 (TAG NO. HO-18-0087) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

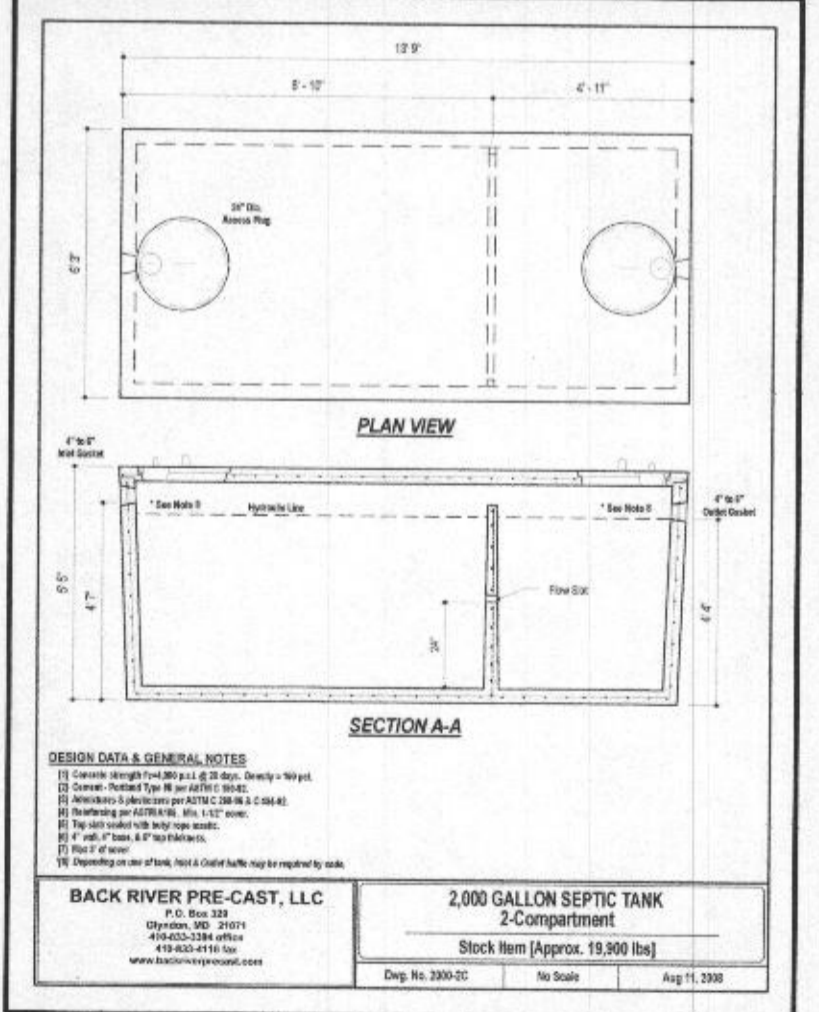
ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 44 WILLOWSHIRE
 LIBER 18479, FOLIO 296
 PLAT NO. 25504
 ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND
 ADDRESS: 6045 BRICKER ROAD
 DAYTON, MARYLAND 21036



VICINITY MAP

GENERAL NOTES: 1" = 2000'
TAX MAP 27, GRID 18

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 INTO 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.
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.
12. THE EXISTING TOPOGRAPHY SHOWN AT THE REAR OF THE SEPTIC DISPOSAL AREA WAS FIELD LOCATED BY ESE CONSULTANTS, INC. ON 10/27/2021 AND IS SHOWN IN 1' CONTOUR INTERVALS PER THE HEALTH DEPARTMENTS REQUEST.



BACK RIVER PRE-CAST, LLC
 2,000 GALLON SEPTIC TANK
 2-Compartment
 Stock Item [Approx. 19,900 lbs]
 Date: 03/21/2022
 Scale: 1" = 30'
 File: OSDS LOT 44
 Job No: 4520
 Drawn: R.C.K.

ESE CONSULTANTS
 ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

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

DATE: 03/21/2022 SCALE: 1" = 30' FILE: OSDS LOT 44
 CHK'D: M.J.B. JOB NO: 4520 DRAWN: R.C.K.

LEGEND:

- BRL BUILDING RESTRICTION LINE
- ⊙ WELL LOCATION
- T.W. TOP OF WALL
- SEWAGE DISPOSAL AREA
- WELL BOX AREA
- ADDITIONAL PRIVATE RESTRICTION AREA



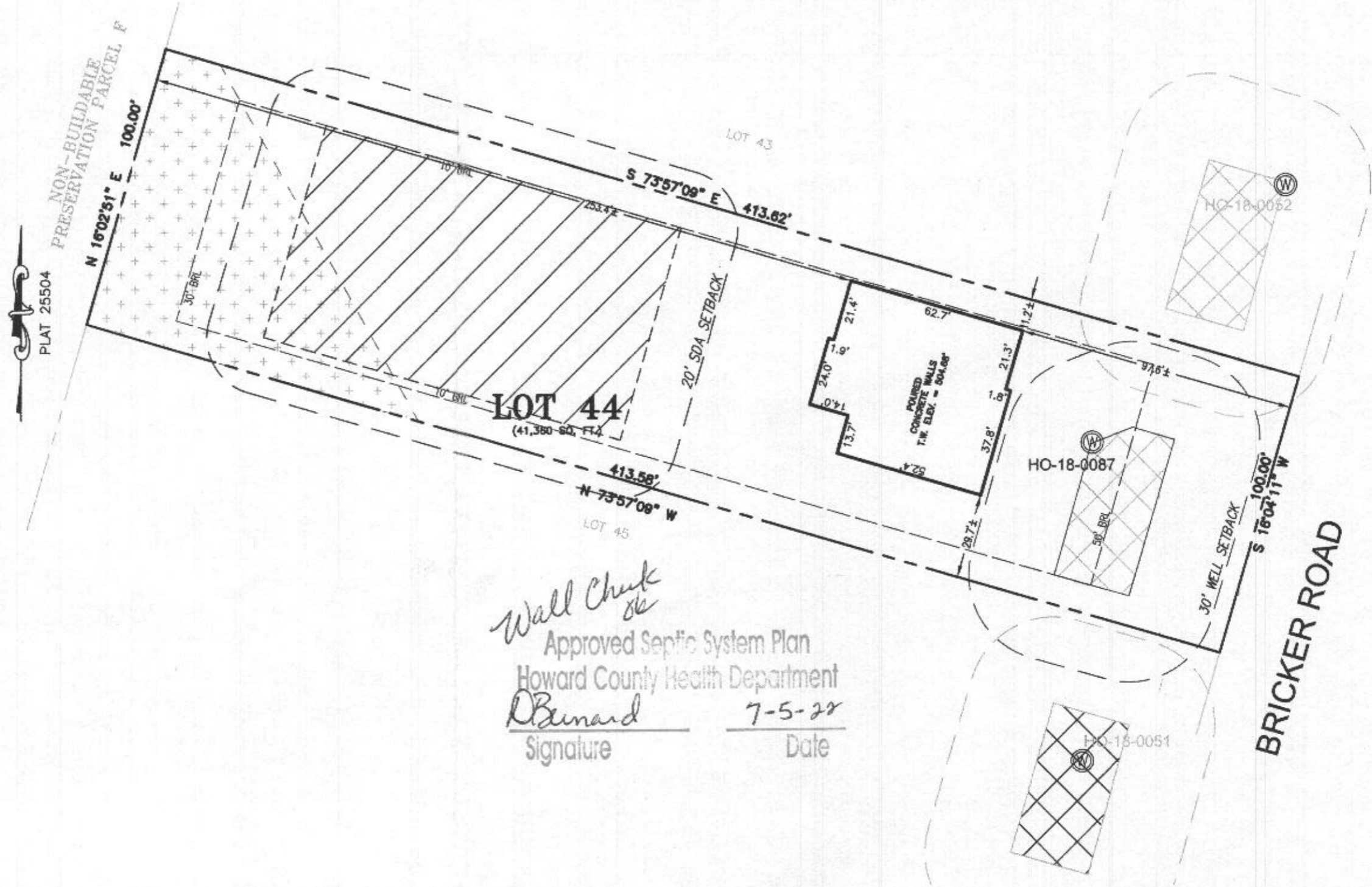
HOUSE ENLARGEMENT
NOT TO SCALE

WELL NUMBER: HO-18-0087

ADDRESS: 6045 BRICKER ROAD
DAYTON, MD 21036

PERMIT NO.: B22000449

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



Wall Chuck
Approved Septic System Plan
Howard County Health Department
D. Bernard 7-5-22
Signature Date

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 6/20/22
SIGNATURE: MICHAEL JOE BOYCE MD. LIC NO. DATE

WALLCHECK
LOT 44
WILLOSHIRE
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: 06/20/2022
CHK'D: M.J.B.

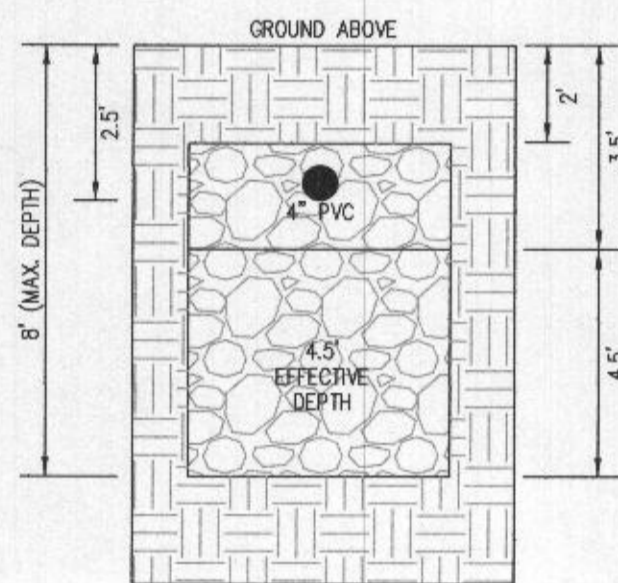
SCALE: 1" = 40'
JOB NO: 4520

FILE: WC LOT 44
DRAWN: V.X.P.

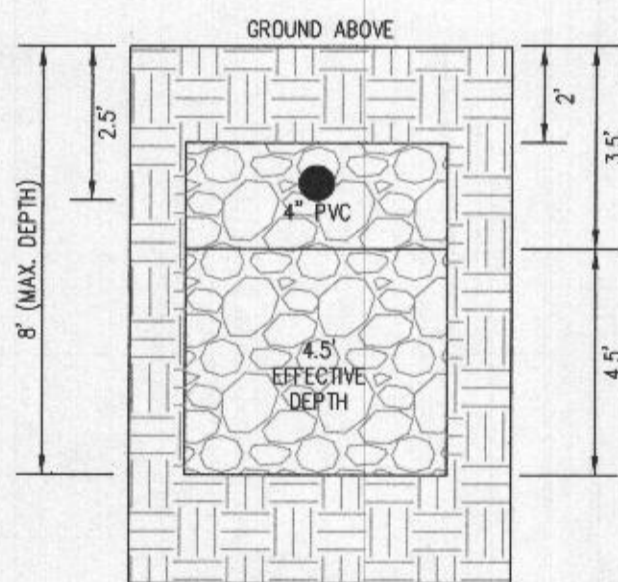
GmB

INITIAL TRENCH DATA:

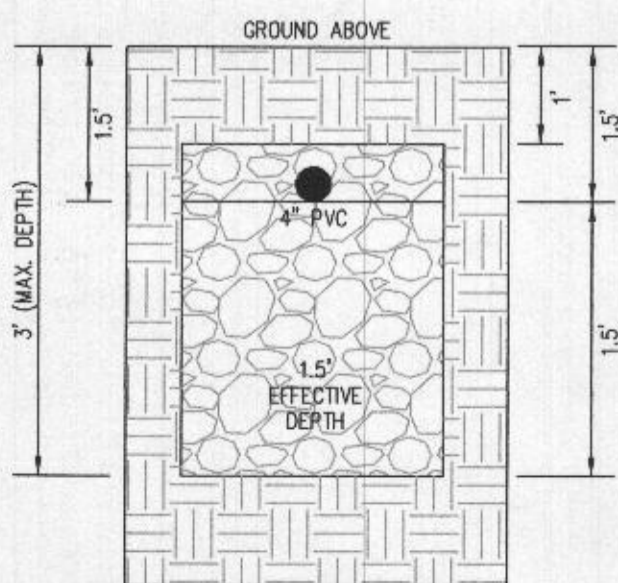
BOTTOM MAX. DEPTH (8')
TRENCH 1 (T1): 47.50 LF.
 GROUND ABOVE = 492.50'
 INV. IN = 490.00'
 BOTTOM TRENCH = 484.50'
TRENCH 2 (T2): 47.50 LF.
 GROUND ABOVE = 491.20'
 INV. IN = 488.70'
 BOTTOM TRENCH = 483.20'



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



1ST REPLACEMENT SYSTEM TRENCH DETAIL (T2) AND (T3) (NOT TO SCALE)

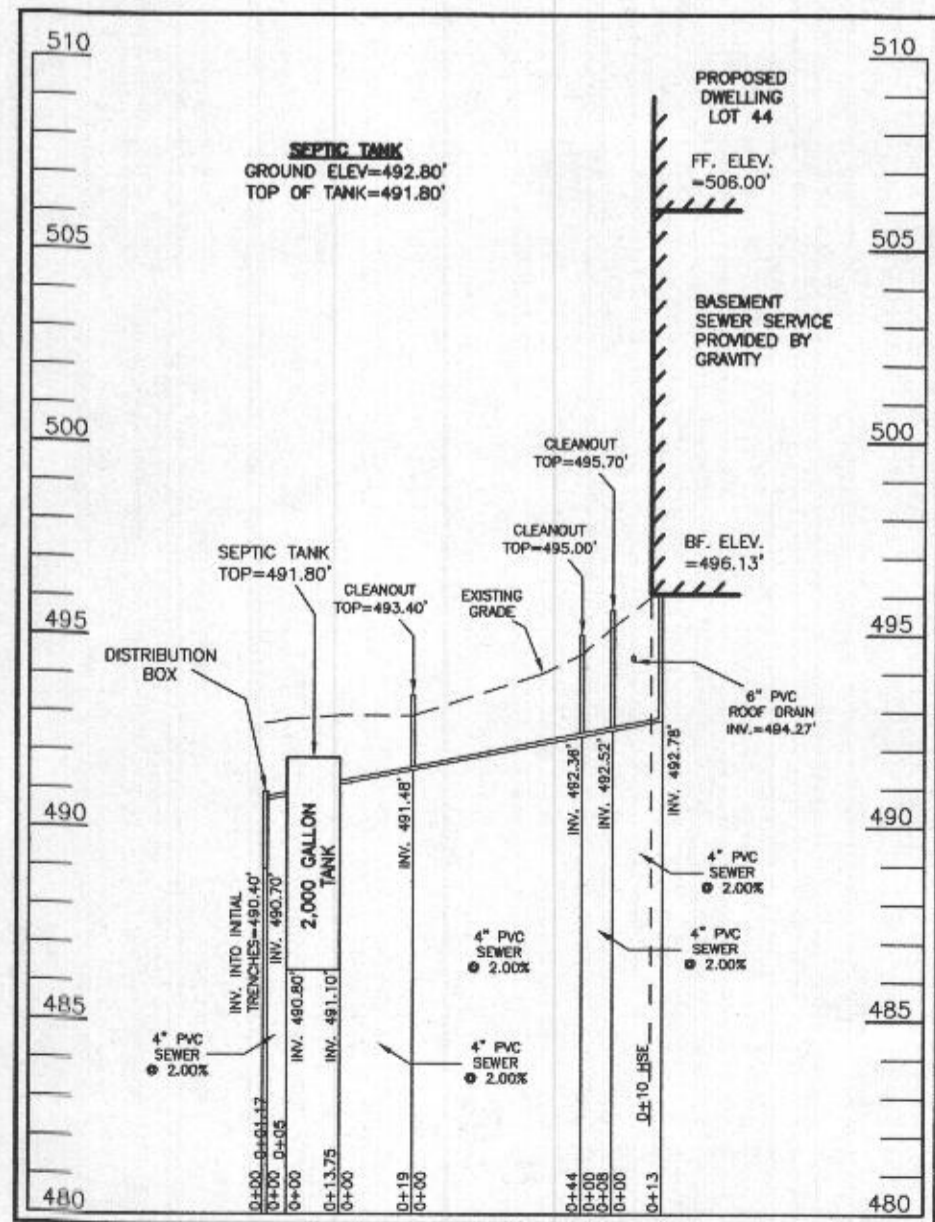


2ND REPLACEMENT SYSTEM TRENCH DETAIL (T5 THRU T8) (NOT TO SCALE)

HOUSE OPTIONS:

HOUSE TYPE: PARKHURST (MODERN FARMHOUSE)

- | | |
|-------------------------------------|-------------------|
| FINISHED LOWER LEVEL | OPTION No. 013 |
| DAYLIGHT BASEMENT | OPTION No. 018 |
| OPTIONAL DROP ZONE | OPTION No. 263081 |
| LUXURY OUTDOOR LIVING SPACE | OPTION No. 263165 |
| ADDITIONAL BATH - FINISHED BASEMENT | OPTION No. 383 |
| DAYLIGHT WINDOW/WELL IN BASEMENT | OPTION No. 543 |



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

Approved Septic System Plan
 Howard County Health Department
 2000-gallon Septic tank
 to Gravity Drain field
 for 6-bedroom residence
 Bricker
 Signature
 4/1/2022
 Date

SEWAGE DISPOSAL SYSTEM DATA (6 BDRM):

- PROPOSED INVERT AT FOUNDATION WALL: 494.27'
- EX. GRADE OVER TANK: 492.80'
 PROPOSED GRADE OVER TANK: 492.80'
 INVERT IN: 491.10' INVERT OUT: 490.80'
 - DISTRIBUTION BOX
 EXISTING GRADE OVER TANK: 492.70'
 PROPOSED GRADE OVER TANK: 492.70'
 INVERT IN: 490.70' INVERT OUT: 490.40'
 - INITIAL 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
 - 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
 - 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 18" GRAVEL BELOW PIPE
 10' MIN. SPACING BETWEEN TRENCH EDGES
 1,125 SF ÷ 3' WIDTH = 375 LF x 0.71 (SIDEWALL REDUCTION) = 266.25 LF MIN.
 USE 4 66.75' LONG TRENCHES = 267.00 LF

SOILS LEGEND

SOIL	NAME	CLASS	Kw
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.28
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	B	.43
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.28

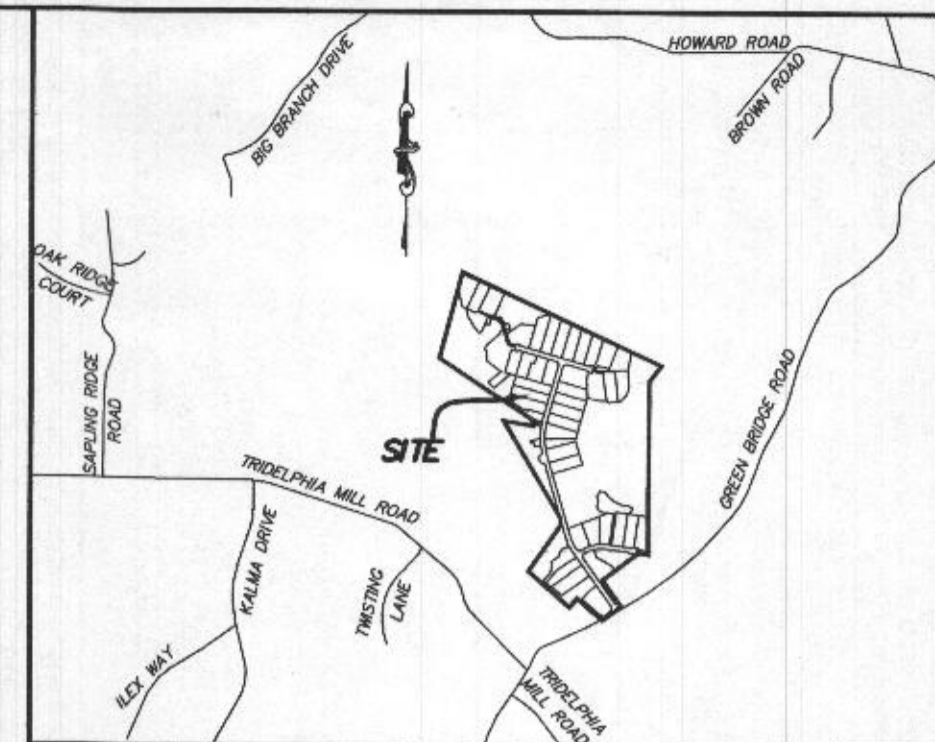
LEGEND:

- BRL (---) BUILDING RESTRICTION LINE
- WELL LOCATION (W) WELL LOCATION
- T.W. (---) TOP OF WALL
- G.F. (---) GARAGE FLOOR
- B.F. (---) BASEMENT FLOOR
- DW (●) DRYWELL
- PASSED PERC LOCATION
- FAILED PERC LOCATION
- (//) SEWAGE DISPOSAL AREA
- (□) WELL BOX AREA
- (+ + +) ADDITIONAL PRIVATE RESTRICTION AREA
- (○) PROPOSED TREE
- (○) PROPOSED TREE
- (---) SOIL DELINEATION LINE

WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 44 (TAG NO. HO-18-0087) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

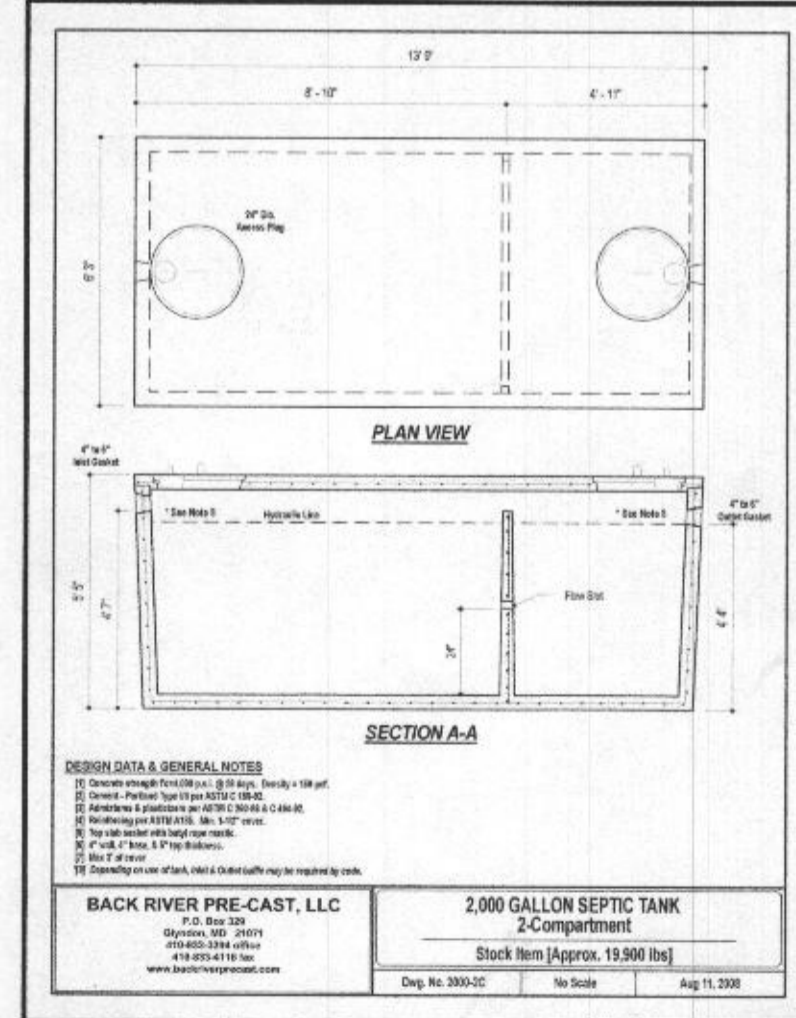
ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
 LOT 44
WILLOSHIRE
 LIBER 18479, FOLIO 296
 PLAT NO. 25504
 ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND
 ADDRESS: 6045 BRICKER ROAD
 DAYTON, MARYLAND 21036



VICINITY MAP

GENERAL NOTES: 1" = 2000'
 TAX MAP 27, GRID 18

- 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.
- 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 AND A TOPOGRAPHIC SURVEY PREPARED BY BOHLER ENGINEERING ON 08/25/15 AND REVISED ON 09/03/15.
- THE EXISTING TOPOGRAPHY SHOWN AT THE REAR OF THE SEPTIC DISPOSAL AREA WAS FIELD LOCATED BY ESE CONSULTANTS, INC. ON 10/27/2021 AND IS SHOWN IN 1' CONTOUR INTERVALS PER THE HEALTH DEPARTMENTS REQUEST.



ESE CONSULTANTS
 ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

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

DATE: 03/21/2022 SCALE: 1"=30' FILE: OSDS LOT 44
 CHK'D: M.J.B. JOB NO: 4520 DRAWN: R.C.K.

