

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: 1/10/23 ONSITE SEWAGE DISPOSAL SYSTEM

P 572741

APPROVAL DATE: 1/30/23 PERMIT: CONSTRUCTION

A

PROPERTY ADDRESS: 7048 Colt Place Ellicott City

SUBDIVISION: Willowshire

LOT: 37

TAX ID:

CONTRACTOR: Fozles Septic Service EMAIL:

CONTRACTOR ADDRESS: 580 Obrecht Rd. Ste B, Sykesville PHONE: 410 795 5670

PROPERTY OWNER: Toll Mid Atlantic Lp. Co. Inc EMAIL:

OWNER ADDRESS: 250 Gibraltar Rd. Horsham, PA 19044

PHONE: 410-872-9105

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER: Back River Pre-Cast

PUMP MODEL: n/a

PUMP SIZE

n/a

PUMP TANK CAPACITY: n/a

DISTRIBUTION SYSTEM: [X] GRAVITY [] PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.8

Table with 2 columns: Field Name (TRENCHES, LOCATION, NOTES) and Field Value (Linear feet required: 158, Inlet depth: 3, etc.)

ISSUED BY: Robert Freeman ISSUE DATE: 1/10/23 EXPIRATION DATE: 1/10/24

- 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 DOWNGRADE 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
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

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH 3 INLET 2.5-3 BOTTOM 7
NUMBER OF TRENCHES 4
TOTAL LENGTH 158
ABSORPTION AREA 474 Sq Ft
DISTRIBUTION BOX LEVEL yes
DISTRIBUTION BOX BAFFLE yes
DISTRIBUTION BOX PORT yes

SEPTIC TANK DATA

SEPTIC TANK I LEVEL yes
MANUFACTURER Black River
CAPACITY 2000 GAL
SEAM LOC Top
TANK LID DEPTH
BAFFLES 4" Front &
BAFFLE FILTER
MANHOLE LOC Front & back
6" PORT LOC
WATERTIGHT TEST
SLOTTED yes
DATE ON LID 11/18/22

PUMP/SEPTIC TANK LEVEL N/A

MANUFACTURER
CAPACITY GAL
SEAM LOC
TANK LID DEPTH
BAFFLES
BAFFLE FILTER
MANHOLE LOC
6" PORT LOC
WATERTIGHT TEST
SLOTTED
DATE ON LID

PRE-CONSTRUCTION:

1/25/23 - weather conditions rainy & cold. Laid out tank. Spoil piles had been on the site. Trenches will have to be moved to meet contours.
1/26/2023 Adjusted trenches on contours. Approx 5'-6" fill around 2 sets of trenches 1-2.

INSTALLATION:

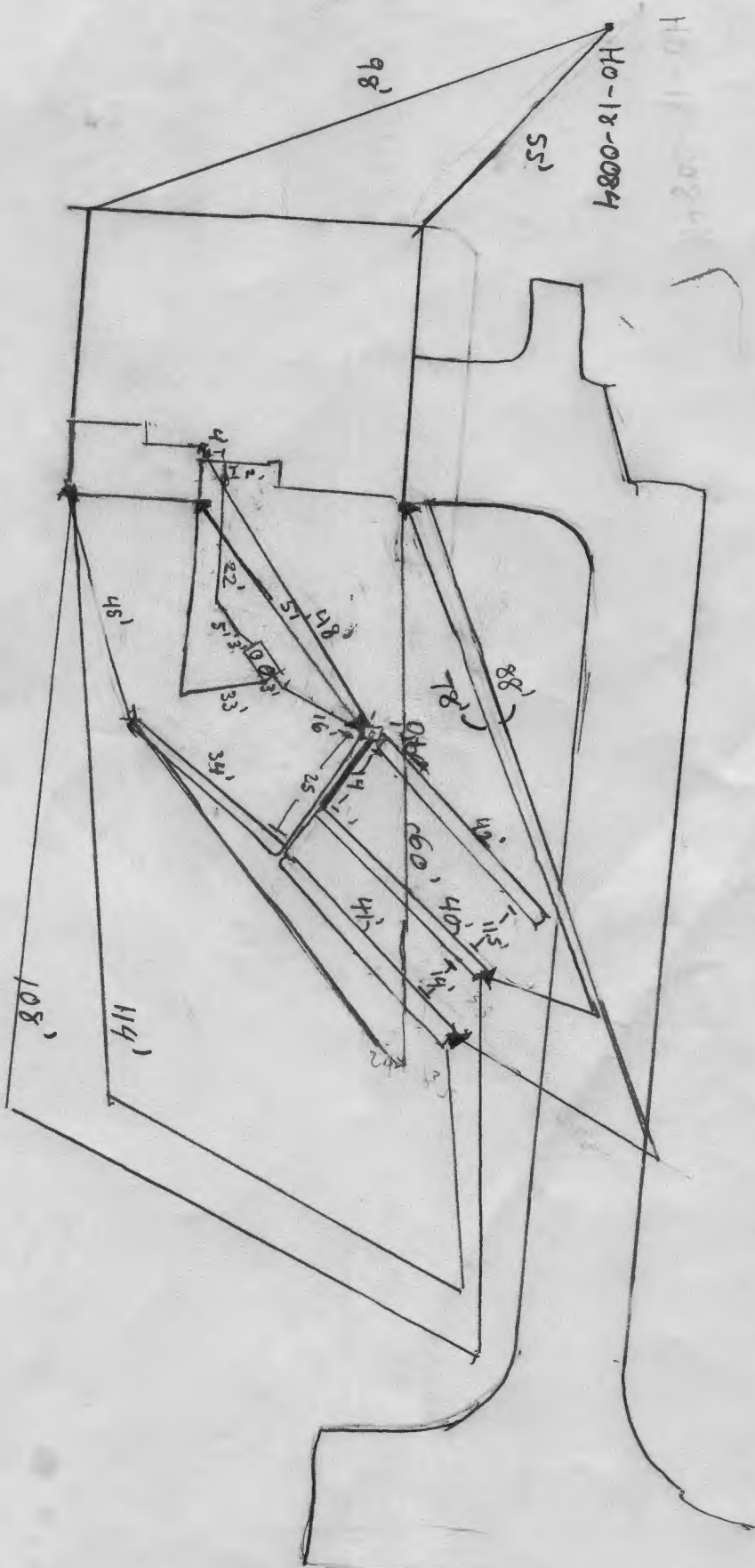
1/26/2023 - Reinspect for back baffle & slope. Measured house to tank. Gave OK to backfill house to front of tank
1/27/23 - Saw back baffle reinspect for slots. D box has lid & part hole attached pipe used is SCH 40 ASTM. Stone for 3rd trench is laid, started stone for 4th trench. (10' for 3rd trench observed.) Space between T1 & T2 is 11.5, between T2 & T4 is 14'
T2 is 40', T4 is 41', T1 is 42', T3 is 35. Lots of rock near T2 & T4
T3 has 5' of stone, Inlet for T2 & T4 is 2.5 instead of 3. Levelled D box & saw slots. (SP)

FINAL INSPECTOR

Shane Page

DATE OF APPROVAL

1/30/23



H0-12-0084

98'

55'

108'

114'

45'

48'

88'

115'

40'

41'

42'

43'

44'

45'

46'

47'

48'

49'

50'

51'

NOT TO SCALE 1" ≈ 30'



HOWARD COUNTY HEALTH DEPARTMENT

72741

DATE 1/10/23

Received From

Fogel

PHONE #

CASH
 CHECK
NO.

For

Newspaper
2018/2019 P.L. William C
Hence reported 1/3/23

Dollars

\$

Received By

[Signature]

HOUSE OPTIONS:
 HOUSE TYPE: RENWICK (MODERN FARMHOUSE)
 TWO CAR SIDE ENTRY GARAGE
 FINISHED LOWER LEVEL
 DAYLIGHT BASEMENT
 BEDROOM FINISHED LOWER LEVEL
 ADDITIONAL BATH
 ADDITIONAL BATH FINISHED LOWER LEVEL
 DAYLIGHT WINDOW WELL

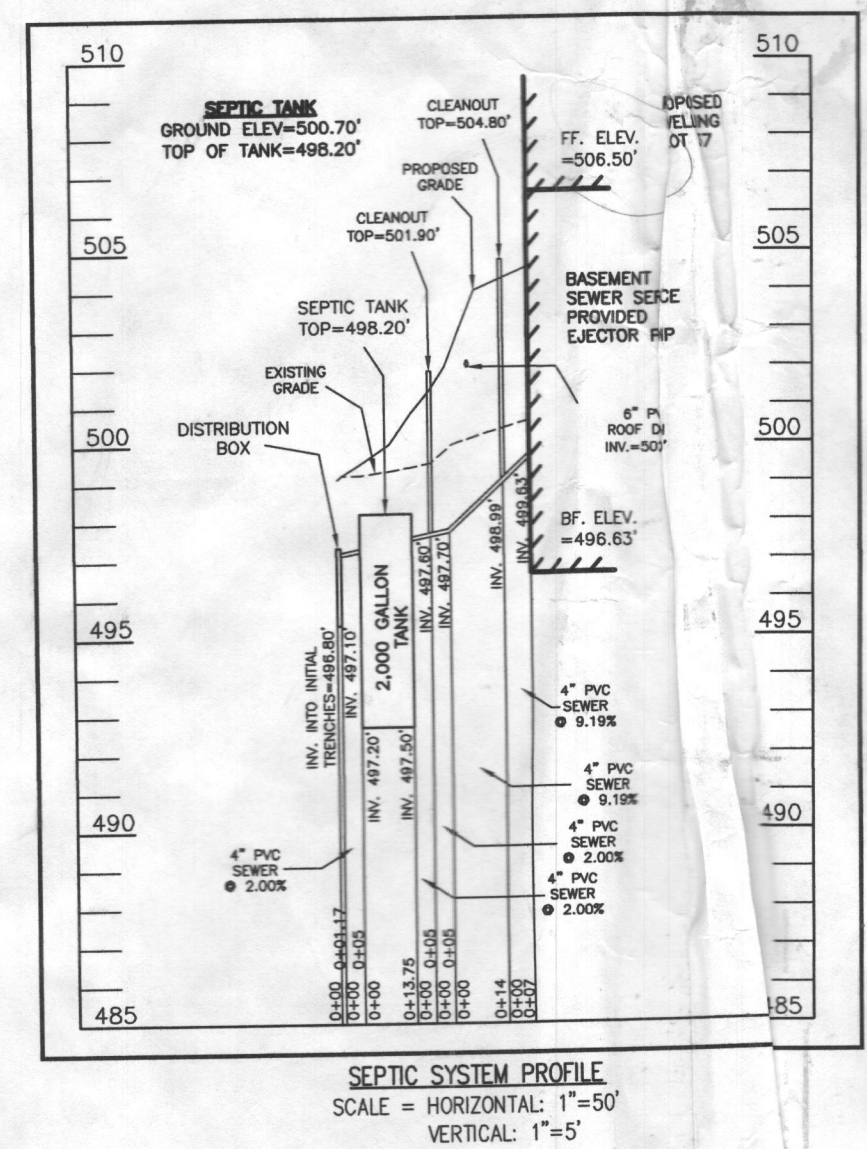
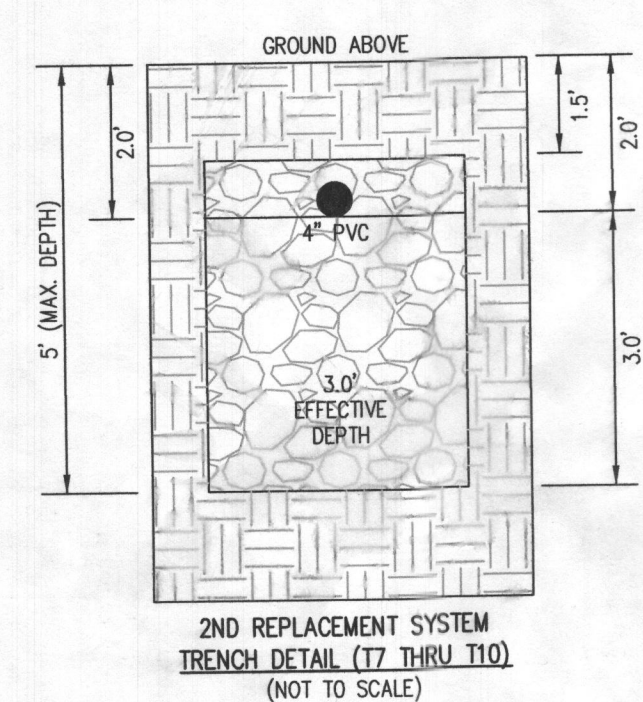
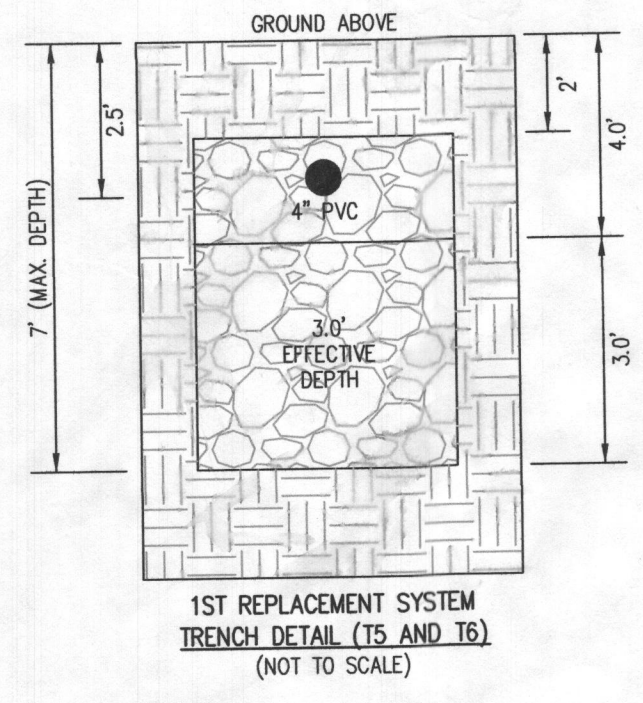
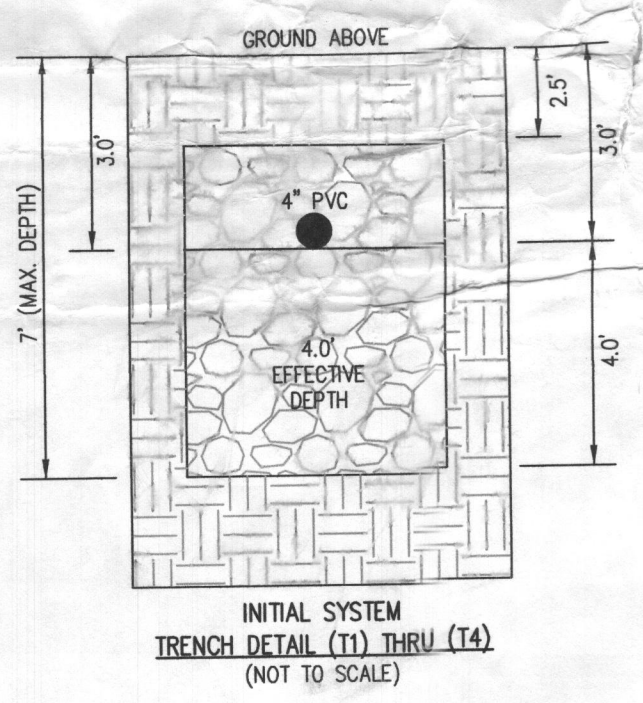
OPTION NO. 012
 OPTION NO. 013
 OPTION NO. 018
 OPTION NO. 263216
 OPTION NO. 367
 OPTION NO. 383
 OPTION NO. 543

SOIL	NAME	CLASS	Kw
GpB	GLENELG LOAM, 3 TO 5 PERCENT SLOPES	B	28
GnB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	43
GnB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	43
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	28

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
 S Sewage Disposal Area
 W Well Box Area
 P Proposed Tree

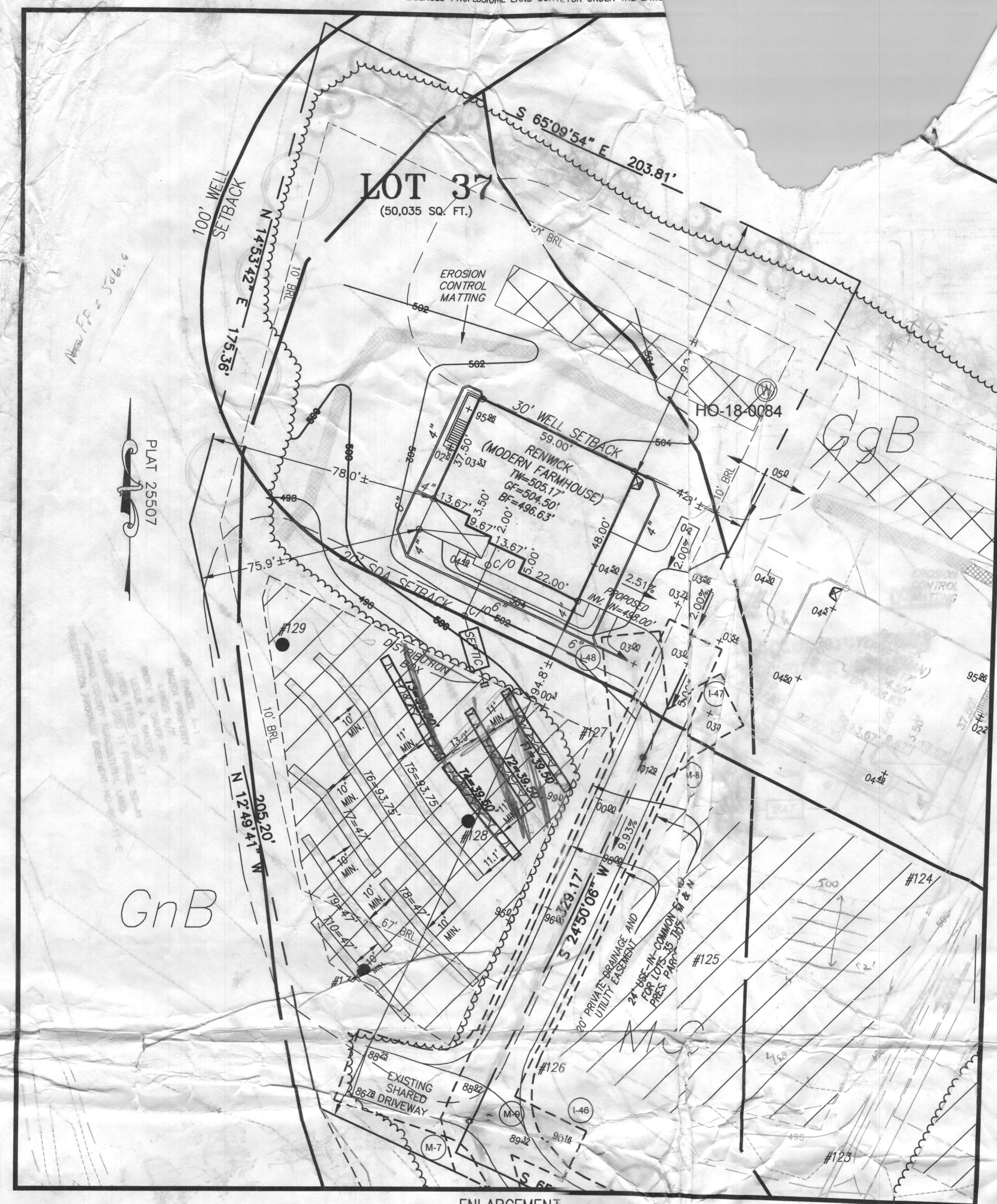
INITIAL TRENCH DATA

- BOTTOM MAX. DEPTH (7')
- TRENCH 1 (T1): 39.50 LF**
 GROUND ABOVE = 499.40'
 INV. IN = 496.40'
 BOTTOM TRENCH = 492.40'
- TRENCH 2 (T2): 39.50 LF**
 GROUND ABOVE = 498.10'
 INV. IN = 495.10'
 BOTTOM TRENCH = 491.10'
- TRENCH 3 (T3): 39.50 LF**
 GROUND ABOVE = 496.60'
 INV. IN = 493.60'
 BOTTOM TRENCH = 489.60'
- TRENCH 4 (T4): 39.50 LF**
 GROUND ABOVE = 496.60'
 INV. IN = 493.60'
 BOTTOM TRENCH = 489.60'

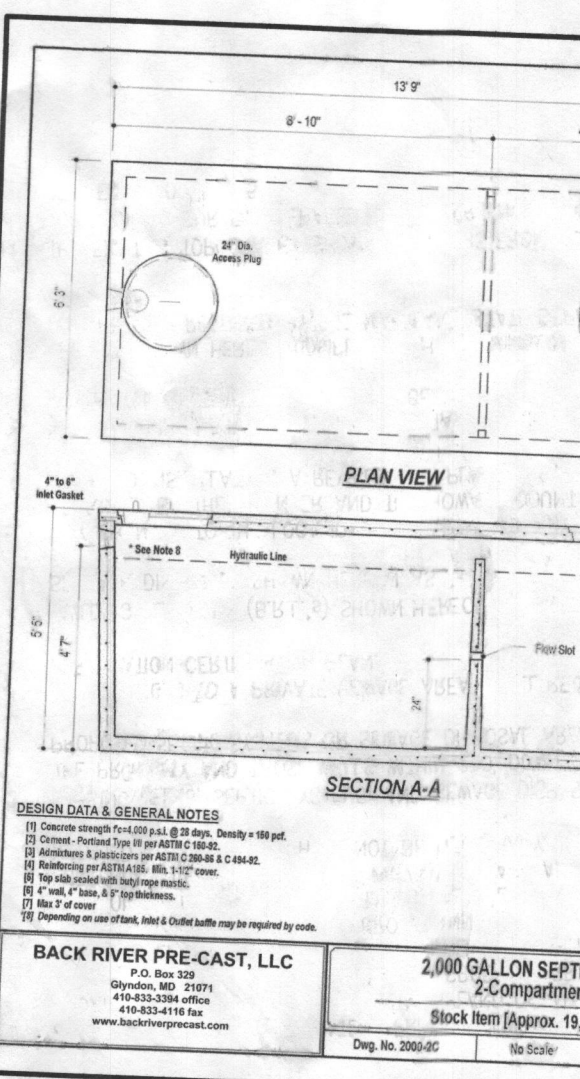


SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: 499.63'
- EX. GRADE OVER TANK: 499.40'
 PROPOSED GRADE OVER TANK: 500.70'
 INVERT IN: 497.50' INVERT OUT: 497.20'
 - DISTRIBUTION BOX
 EXISTING GRADE OVER TANK: 499.10'
 PROPOSED GRADE OVER TANK: 499.10'
 INVERT IN: 497.10' INVERT OUT: 496.80'
 - 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 48" GRAVEL BELOW PIPE
 11' MIN. SPACING BETWEEN TRENCH EDGES
 1,125 SF ÷ 3' WIDTH = 375 LF x 0.42 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 4 39.50' LONG TRENCHES = 158.00 LF
 - 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 54" GRAVEL BELOW PIPE
 10' MIN. SPACING BETWEEN TRENCH EDGES
 1,125 SF ÷ 3' WIDTH = 375 LF x 0.50 (SIDEWALL REDUCTION) = 187.50 LF MIN.
USE 2 93.75' LONG TRENCHES = 187.50 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 36" GRAVEL BELOW PIPE
 10' MIN. SPACING BETWEEN TRENCH EDGES
 1,125 SF ÷ 3' WIDTH = 375 LF x 0.50 (SIDEWALL REDUCTION) = 187.50 LF MIN.
USE 4 47' LONG TRENCHES = 188 LF



- GENERAL NOTES:**
- THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS TO THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. ANY CHANGES TO THIS AREA SHALL BE APPROVED BY THE COUNTY HEALTH OFFICER. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO APPROVE OR DENY ANY CHANGES TO THIS AREA. FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE AREA, A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
 - EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS SHALL BE IDENTIFIED AND SHOWN ON THIS PLAN. EXISTING SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS SHALL BE IDENTIFIED AND SHOWN ON THIS PLAN.
 - ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE PERCOLATION CERTIFICATION PLAN.
 - BUILDING SETBACKS (B.R.L.'S) SHOWN HEREON PER SITE SPECIFIC SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN APPROVED SETBACK DISTANCE.
 - ANY CHANGES TO THE LOCATIONS OR DEPTHS TO ANY OF THE EXISTING WELLS SHALL BE APPROVED BY THE COUNTY HEALTH OFFICER PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
 - THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. THE COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
 - THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY TOPOGRAPHIC SURVEY PREPARED BY BOHLER ENGINEERING REVISIONS ON 09/03/15.



Approved Septic System Plan
 Howard County Health Department
 Signature: [Signature]
 Date: 10/27/2022

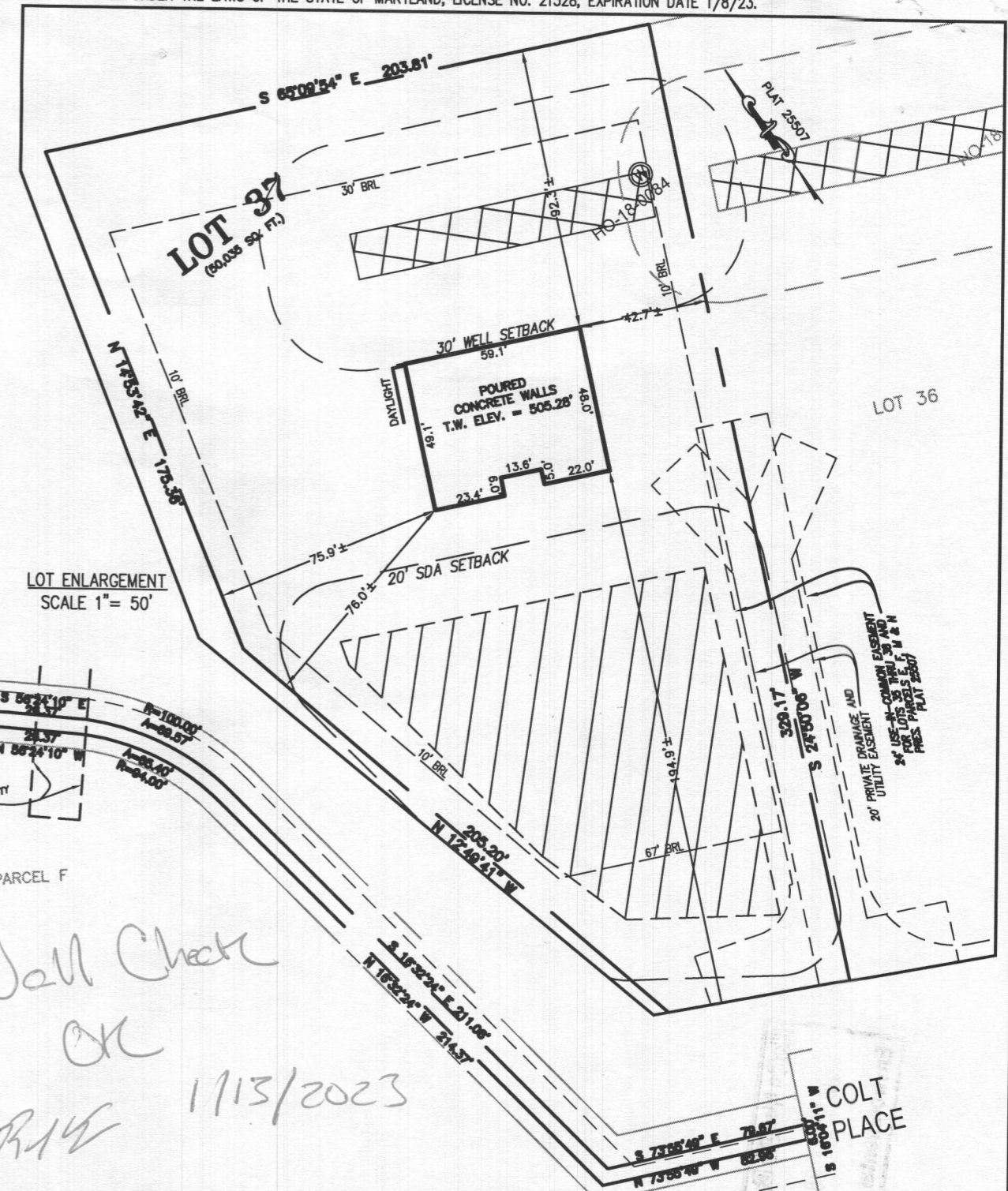
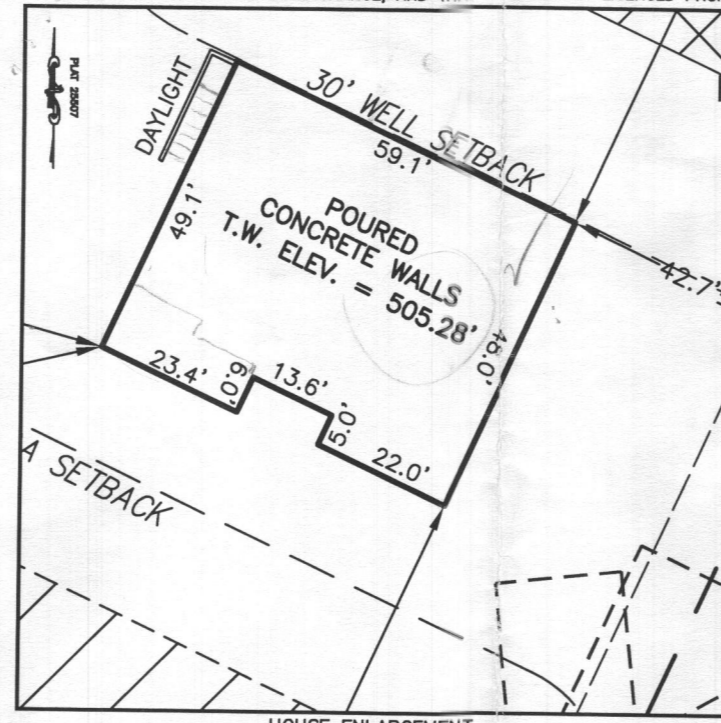
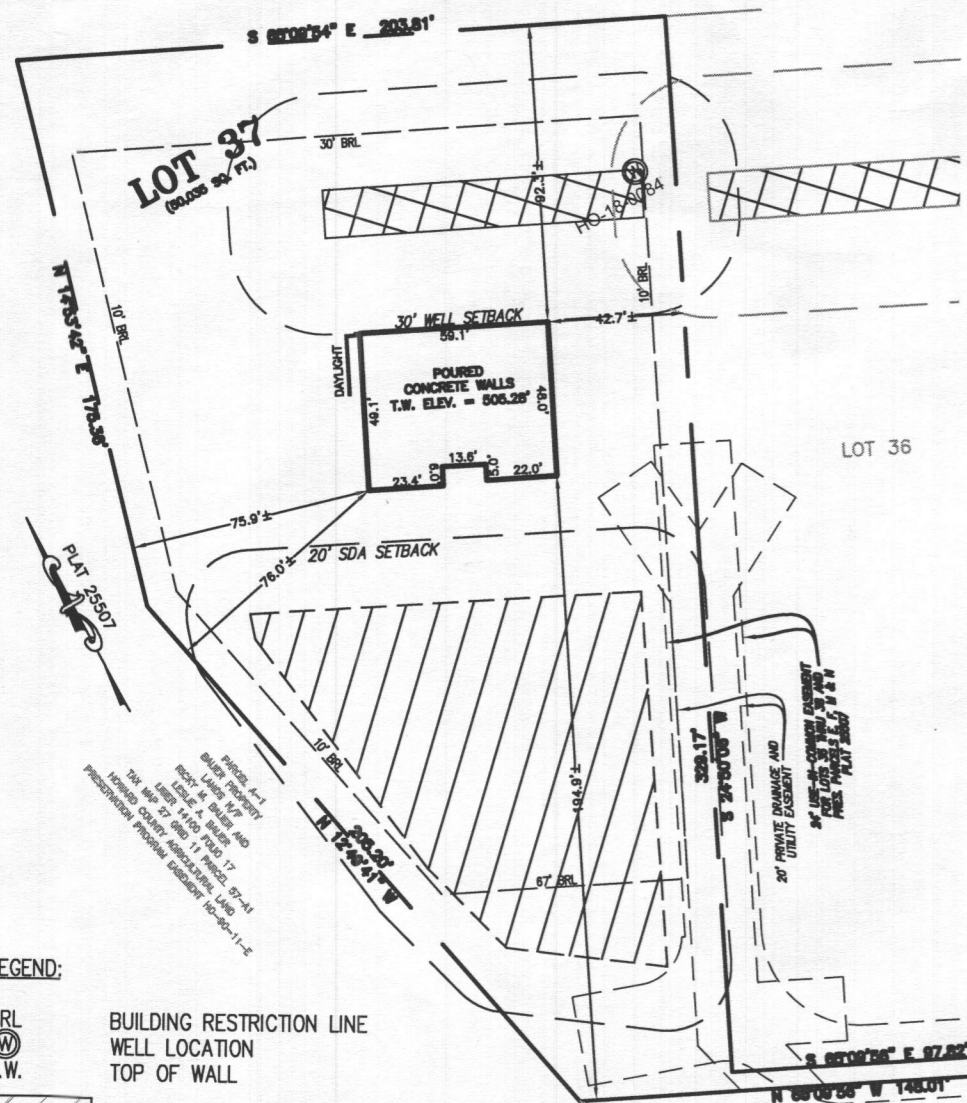
PROFESSIONAL CERTIFICATION:
 A WELL SHOWN FOR LOT 37 (TAG NO. HO-18-0084) FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 37
WILLOWSHIRE
 LIBER 18479, FOLIO 296
 PLAT NO. 25507
 ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND
 ADDRESS: 7048 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: 08/22/2022 SCALE: 1" = 40' FILE: OS
 CHK'D: M.J.B. JOB NO: 4520 DRAWN:

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.



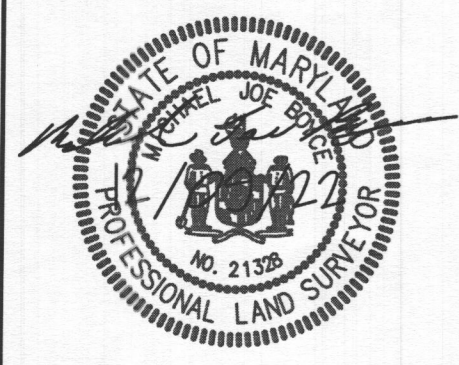
LEGEND:
 BRL BUILDING RESTRICTION LINE
 WELL LOCATION
 T.W. TOP OF WALL
 SEWAGE DISPOSAL AREA
 WELL BOX AREA

WELL NUMBER: HO-18-0084
 ADDRESS: 7048 COLT PLACE DAYTON, MD 21036
 PERMIT No.: B22002737

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

Handwritten notes:
 HO = 24"
 Elev = 505
 New Floor 5'00" + 24"

Handwritten notes:
 Wall Check
 OK
 R14
 1/13/2023



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
 21328
 MD. LIC NO.
 DATE: 12/09/22

WALLCHECK
 LOT 37
WILLOSHIRE
 LIBER 18479, FOLIO 296
 PLAT NO. 25507
 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: 12/09/2022 SCALE: 1" = 60 FILE: WC LOT 37
 CHK'D: M.J.B. JOB NO: 4520 DRAWN: V.X.P.

HOUSE OPTIONS:

TWO CAR SIDE ENTRY GARAGE	OPTION NO. 012
FINISHED LOWER LEVEL	OPTION NO. 013
DAYLIGHT BASEMENT	OPTION NO. 018
BEDROOM FINISHED LOWER LEVEL	OPTION NO. 263216
ADDITIONAL BATH	OPTION NO. 367
ADDITIONAL BATH FINISHED LOWER LEVEL	OPTION NO. 383
DAYLIGHT WINDOW WELL	OPTION NO. 543

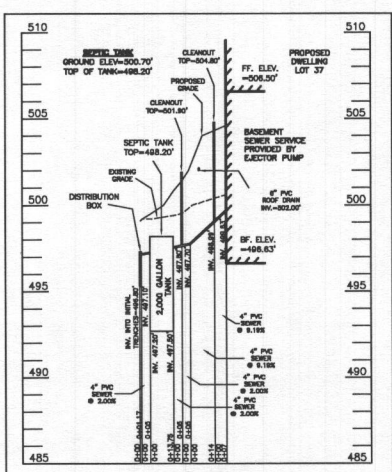
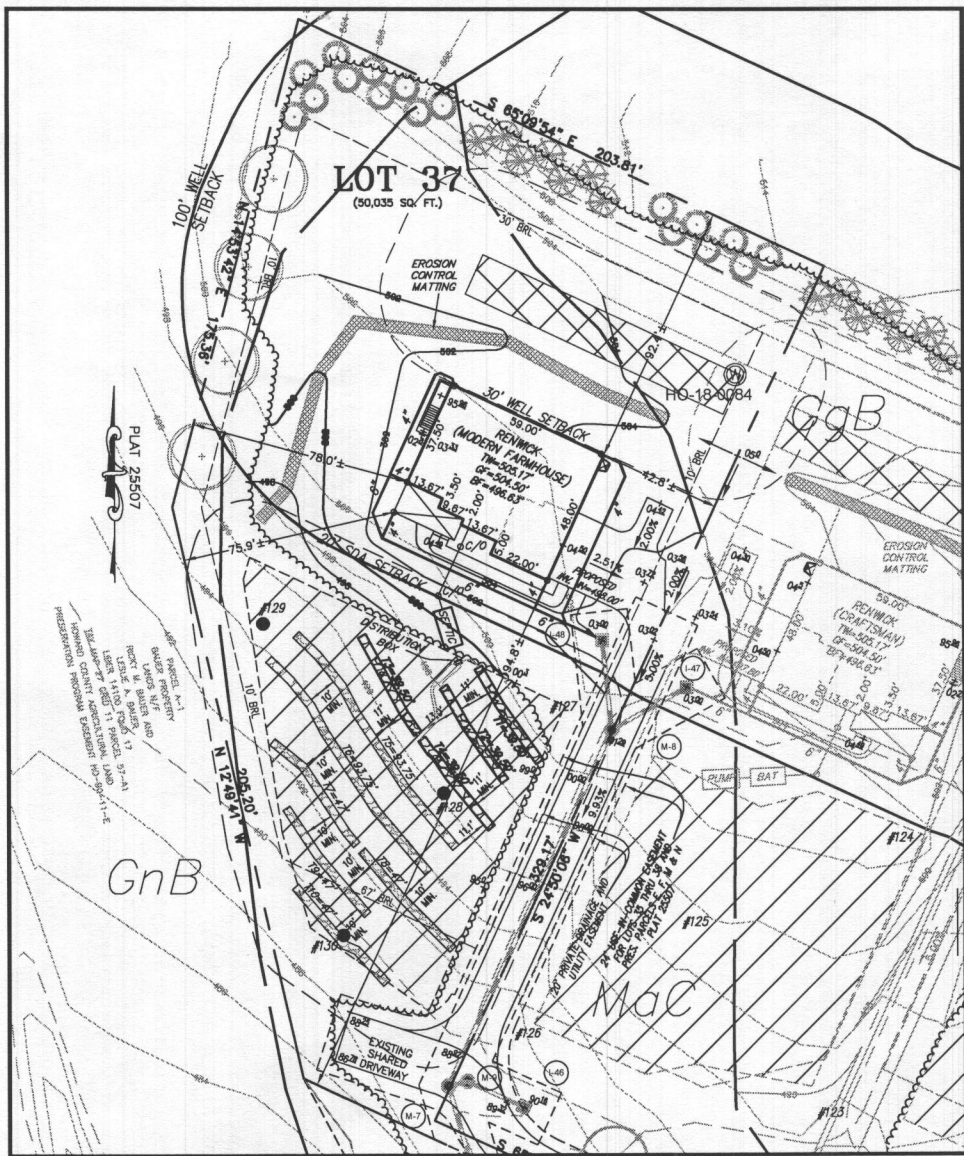
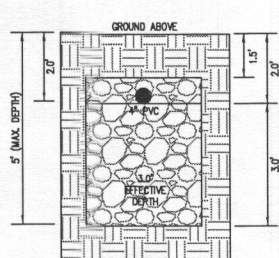
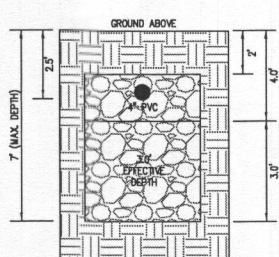
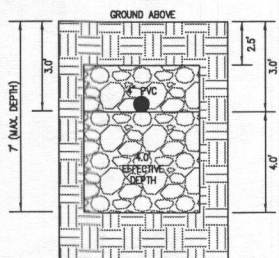
SOIL	NAME	CLASS	Kw
GgB	GLENELG LOAM 3 TO 5 PERCENT SLOPES	B	28
GnB	GLENVILLE SILTY LOAM 3 TO 8 PERCENT SLOPES	C	43
GnH	GLENVILLE-BAILE SILTY LOAMS, 0 TO 8 PERCENT SLOPES	C	43
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	28

LEGEND:

BSL	BUILDING RESTRICTION LINE
WELL	WELL LOCATION
T.W.	TOP OF WALL
G.F.	GARAGE FLOOR
B.F.	BASEMENT FLOOR
P.F.C.	PASSED PERC LOCATION
F.F.C.	FAILED PERC LOCATION
SDA	SEWAGE DISPOSAL AREA
W.B.A.	WELL BOX AREA
P.T.	PROPOSED TREE

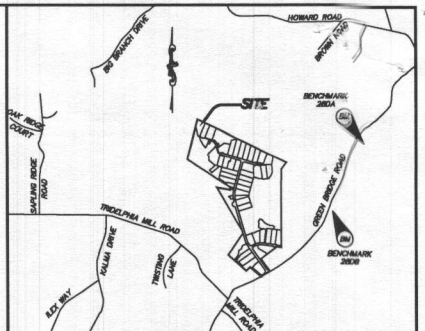
INITIAL TRENCH DATA:

- BOTTOM MAX. DEPTH (7')**
- TRENCH 1 (T1) 30.50 LF**
GROUND ABOVE = 499.40'
INV. IN = 496.40'
BOTTOM TRENCH = 492.40'
 - TRENCH 2 (T2) 30.50 LF**
GROUND ABOVE = 498.10'
INV. IN = 495.10'
BOTTOM TRENCH = 491.10'
 - TRENCH 3 (T3) 30.50 LF**
GROUND ABOVE = 498.90'
INV. IN = 493.90'
BOTTOM TRENCH = 489.90'
 - TRENCH 4 (T4) 30.50 LF**
GROUND ABOVE = 496.60'
INV. IN = 493.60'
BOTTOM TRENCH = 489.60'



SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: 499.63'
- EX. GRADE OVER TANK: 499.40'**
PROPOSED GRADE OVER TANK: 500.70'
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PROPOSED GRADE OVER TANK: 499.10'
INVERT IN: 497.10' INVERT OUT: 496.80'
 - 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 48" GRAVEL BELOW PIPE
11' MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF ÷ 3" WIDTH = 375 LF x 0.42 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 4 30.50' LONG TRENCHES = 158.00 LF
 - 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 54" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF ÷ 3" WIDTH = 375 LF x 0.50 (SIDEWALL REDUCTION) = 187.50 LF MIN.
USE 2 93.75' LONG TRENCHES = 187.50 LF
 - 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)**
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USE 3" WIDE TRENCH WITH 36" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF ÷ 3" WIDTH = 375 LF x 0.50 (SIDEWALL REDUCTION) = 187.50 LF MIN.
USE 4 47' LONG TRENCHES = 188 LF



GENERAL NOTES:

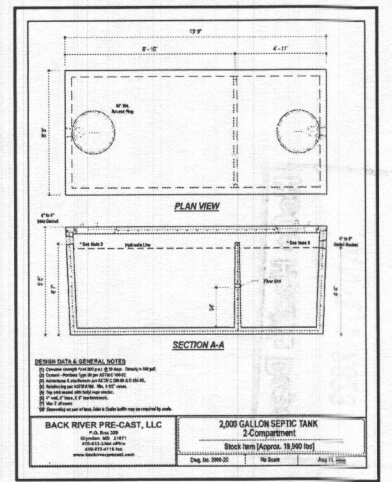
- THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE AREA. REORDINATION 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.L.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "5" HAVE AN ACCURACY OF 30.1' 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 TOPOGRAPHIC SURVEY PREPARED BY BOHLER ENGINEERING ON 08/25/15 AND REVISED ON 08/03/15.



WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 37 (TAG NO. HO-18-0084) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 37
WILLOWSHIRE
LIBER 18479, FOLIO 296
PLAT NO. 25507
ELECTION DISTRICT No. 5
HOWARD COUNTY, MARYLAND
ADDRESS: 7048 COLT PLACE
DAYTON, MARYLAND 21036



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ESE Consultants, Inc.
8731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21048
T: 410-872-9105

DATE: 08/22/2022 SCALE: 1" = 40' FILE: 0355 LOT 37
CHK'D: M.L.B. JOB NO: 4520 DRAWN: R.C.K.

HOUSE OPTIONS:
 HOUSE TYPE: RENWICK (MODERN FARMHOUSE)
 TWO CAR SIDE ENTRY GARAGE
 FINISHED LOWER LEVEL
 DAYLIGHT BASEMENT
 BEDROOM FINISHED LOWER LEVEL
 ADDITIONAL BATH
 ADDITIONAL BATH FINISHED LOWER LEVEL
 DAYLIGHT WINDOW WELL

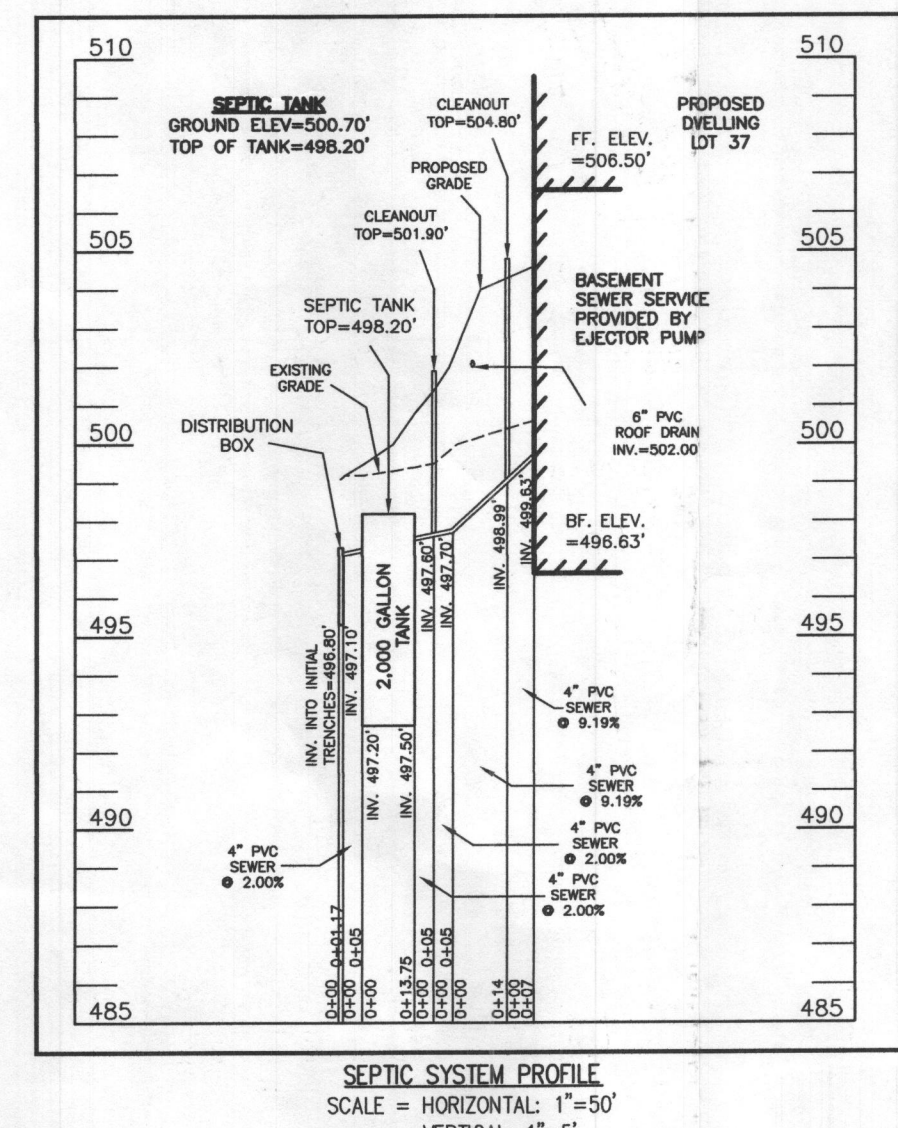
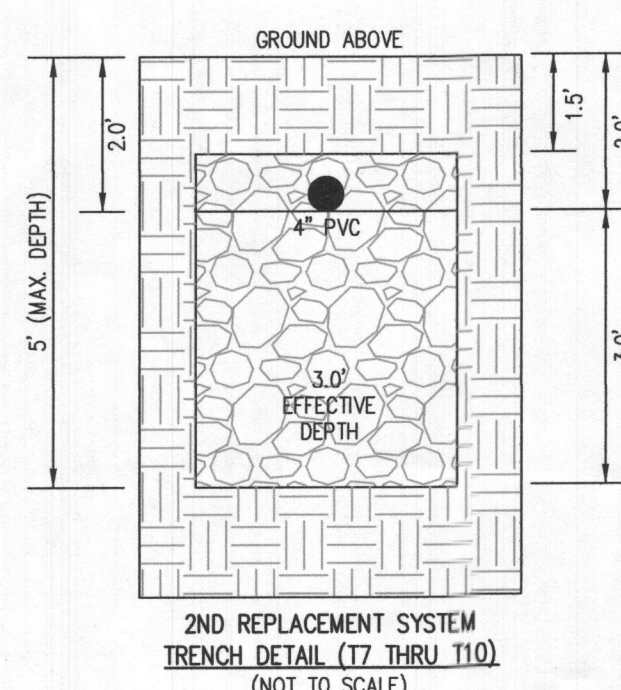
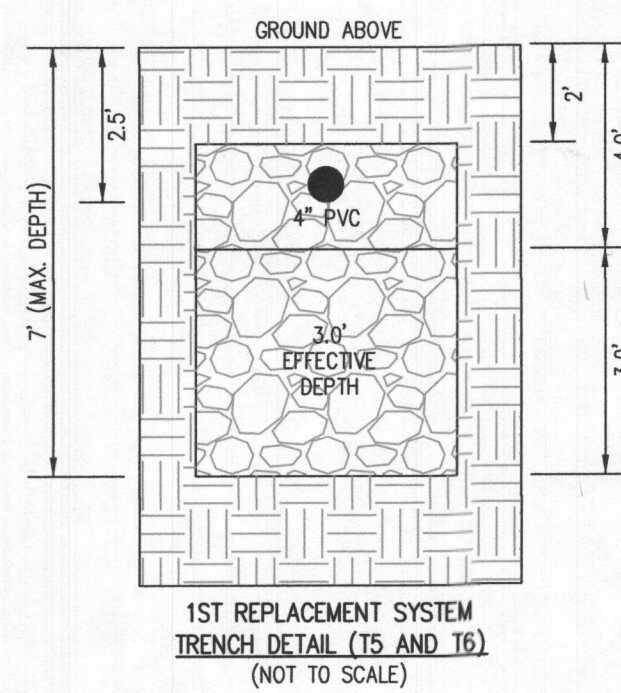
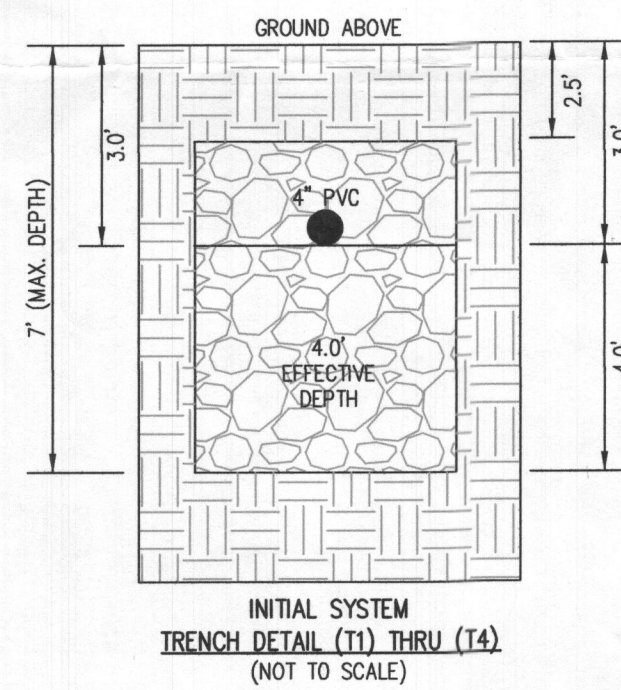
OPTION NO. 012
 OPTION NO. 013
 OPTION NO. 018
 OPTION NO. 28326
 OPTION NO. 367
 OPTION NO. 383
 OPTION NO. 543

SOIL	NAME	CLASS	Kw
GgB	GLENELG LOAM, 3 TO 5 PERCENT SLOPES	B	28
GnB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	43
GnB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	43
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	28

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
 () PROPOSED TREE

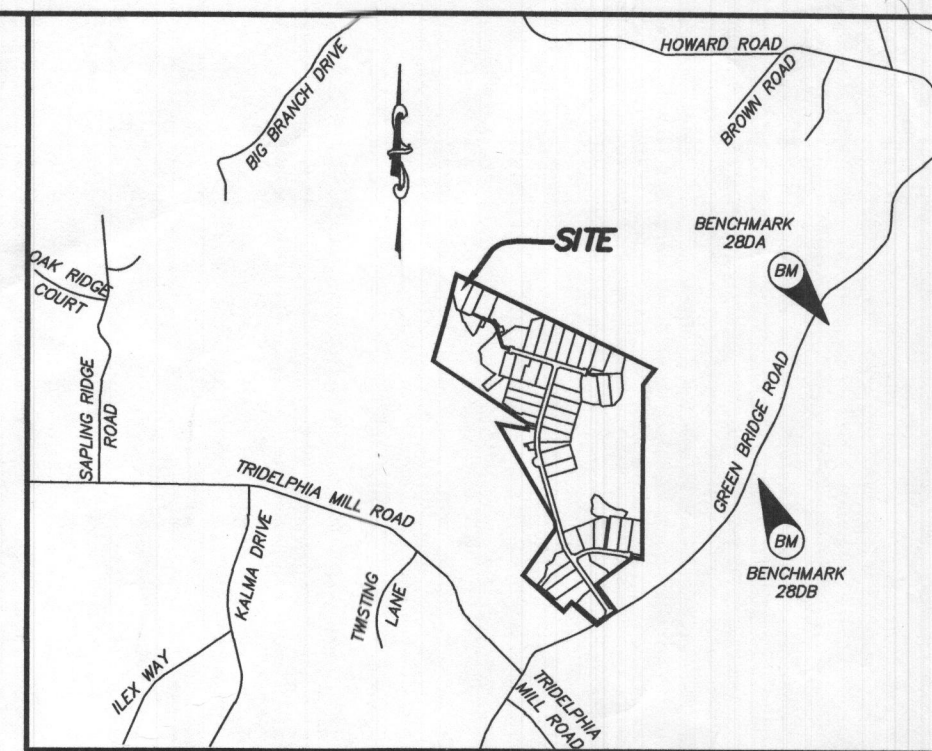
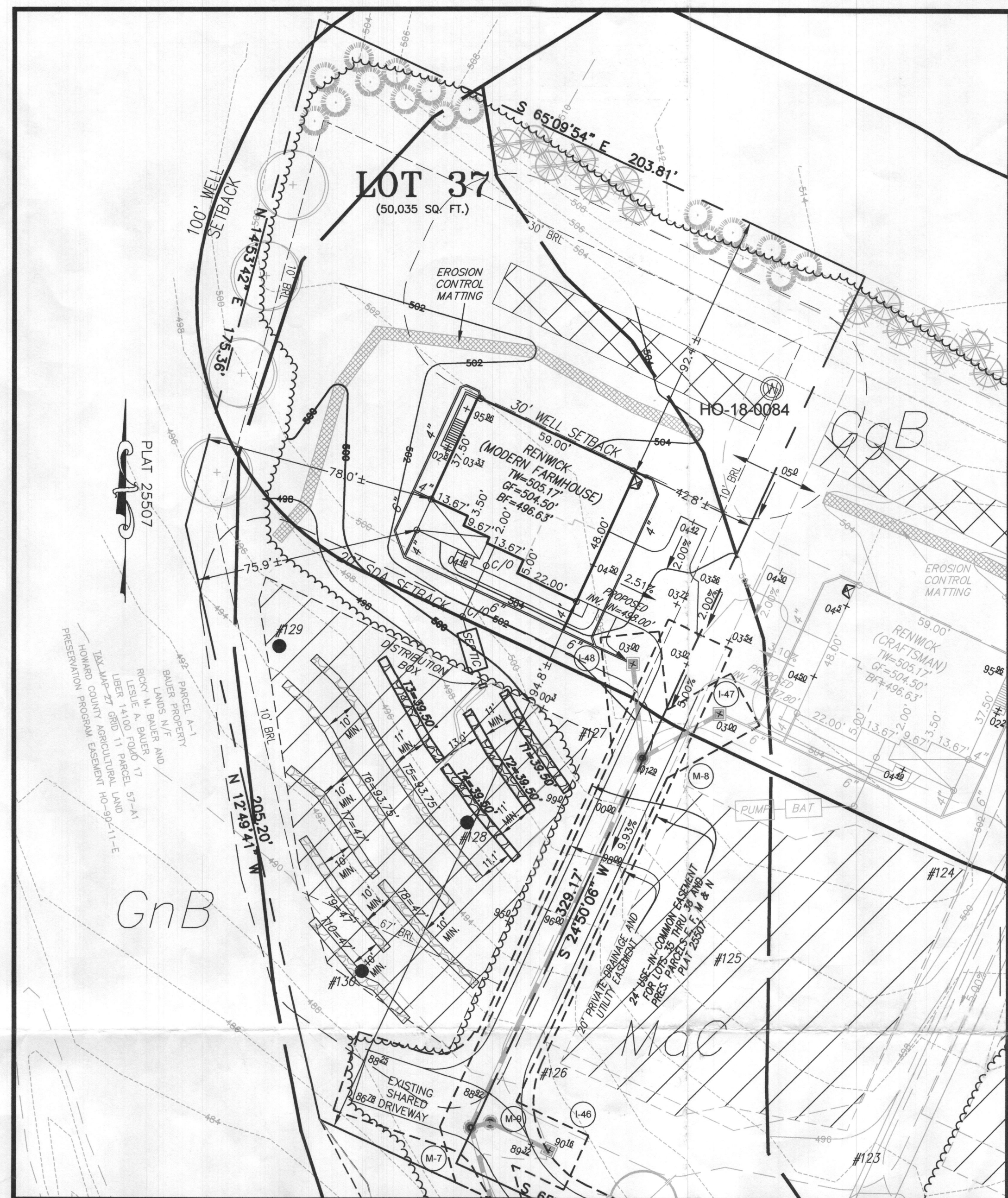
INITIAL TRENCH DATA

- BOTTOM MAX. DEPTH (7')
TRENCH 1 (T1): 39.50 LF.
 GROUND ABOVE = 499.40'
 INV. IN = 496.40'
 BOTTOM TRENCH = 492.40'
TRENCH 2 (T2): 39.50 LF.
 GROUND ABOVE = 498.10'
 INV. IN = 495.10'
 BOTTOM TRENCH = 491.10'
TRENCH 3 (T3): 39.50 LF.
 GROUND ABOVE = 496.60'
 INV. IN = 493.60'
 BOTTOM TRENCH = 489.60'
TRENCH 4 (T4): 39.50 LF.
 GROUND ABOVE = 496.60'
 INV. IN = 493.60'
 BOTTOM TRENCH = 489.60'

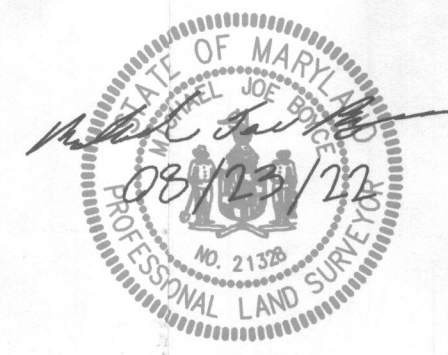


SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: 499.63'
- EX. GRADE OVER TANK: 499.40'
 PROPOSED GRADE OVER TANK: 500.70'
 INVERT IN: 497.50' INVERT OUT: 497.20'
 - DISTRIBUTION BOX
 EXISTING GRADE OVER TANK: 499.10'
 PROPOSED GRADE OVER TANK: 499.10'
 INVERT IN: 497.10' INVERT OUT: 496.80'
 - 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 48" GRAVEL BELOW PIPE
 11' MIN. SPACING BETWEEN TRENCH EDGES
 1,125 SF ÷ 3' WIDTH = 375 LF x 0.42 (SIDEWALL REDUCTION) = 157.50 LF MIN.
 USE 4 39.50' LONG TRENCHES = 158.00 LF
 - 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 54" GRAVEL BELOW PIPE
 10' MIN. SPACING BETWEEN TRENCH EDGES
 1,125 SF ÷ 3' WIDTH = 375 LF x 0.50 (SIDEWALL REDUCTION) = 187.50 LF MIN.
 USE 2 93.75' LONG TRENCHES = 187.50 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 36" GRAVEL BELOW PIPE
 10' MIN. SPACING BETWEEN TRENCH EDGES
 1,125 SF ÷ 3' WIDTH = 375 LF x 0.50 (SIDEWALL REDUCTION) = 187.50 LF MIN.
 USE 4 47' LONG TRENCHES = 188 LF



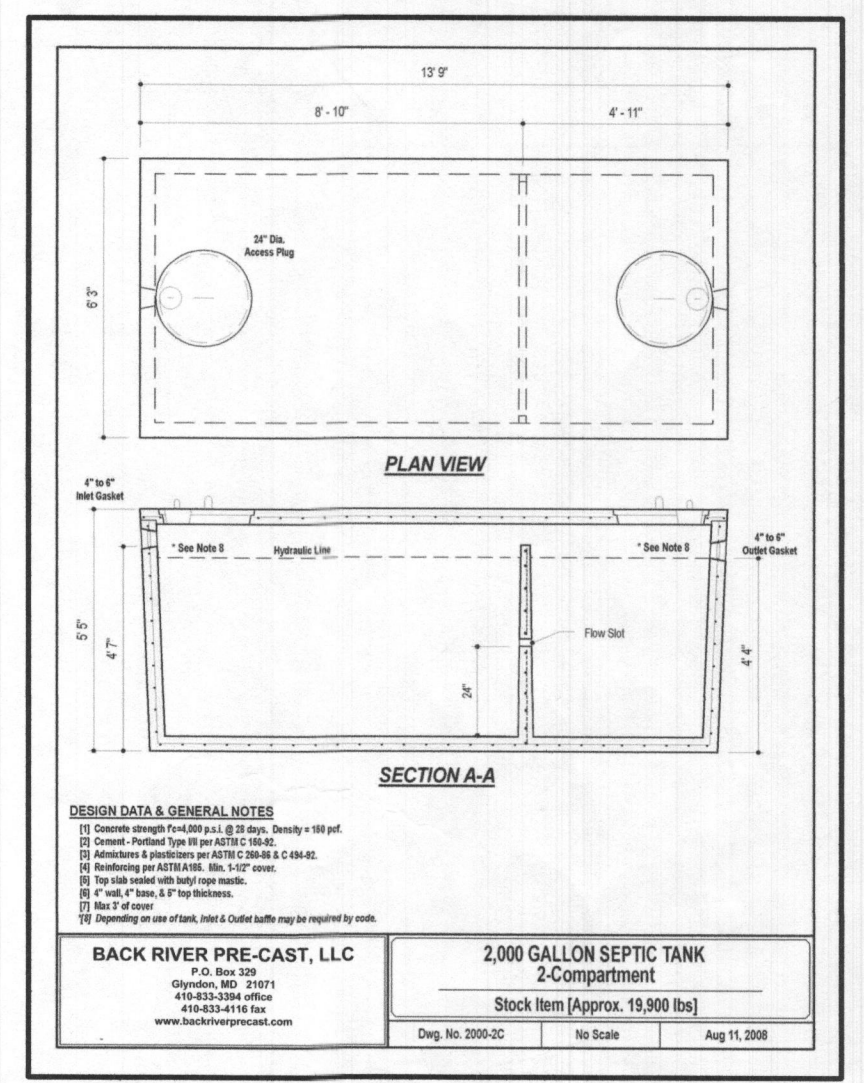
- GENERAL NOTES:**
- THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL 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.
 - 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.



Approved Septic System Plan
 Howard County Health Department
 Signature: *[Signature]* Date: 10/27/2022

WELL LOCATION CERTIFICATION:
 THE EXISTING WELL SHOWN FOR LOT 37 (TAG NO. HO-18-0084) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 37 WILLOWSHIRE
 LIBER 18479, FOLIO 296
 PLAT NO. 25507
 ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND
 ADDRESS: 7048 COLT PLACE
 DAYTON, MARYLAND 21036



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

DATE: 08/22/2022 SCALE: 1" = 40' FILE: OSDS LOT 37
 CHK'D: M.J.B. JOB NO: 4520 DRAWN: R.C.K.