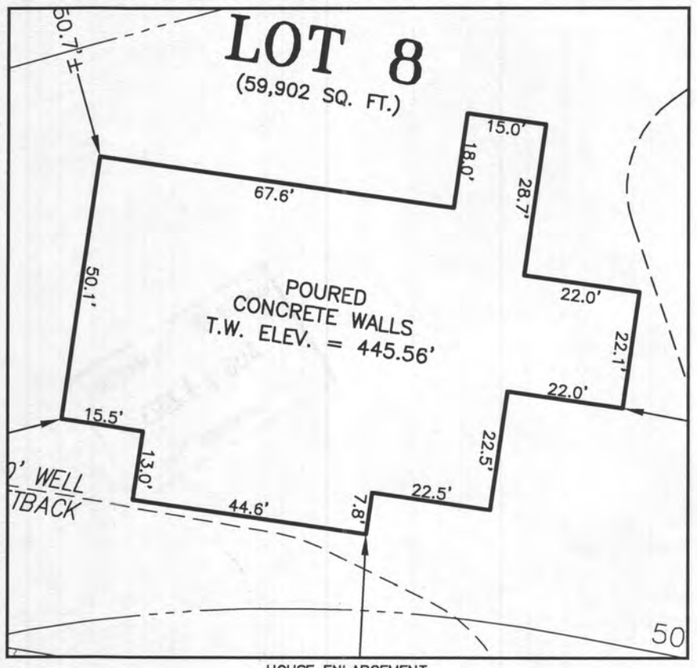
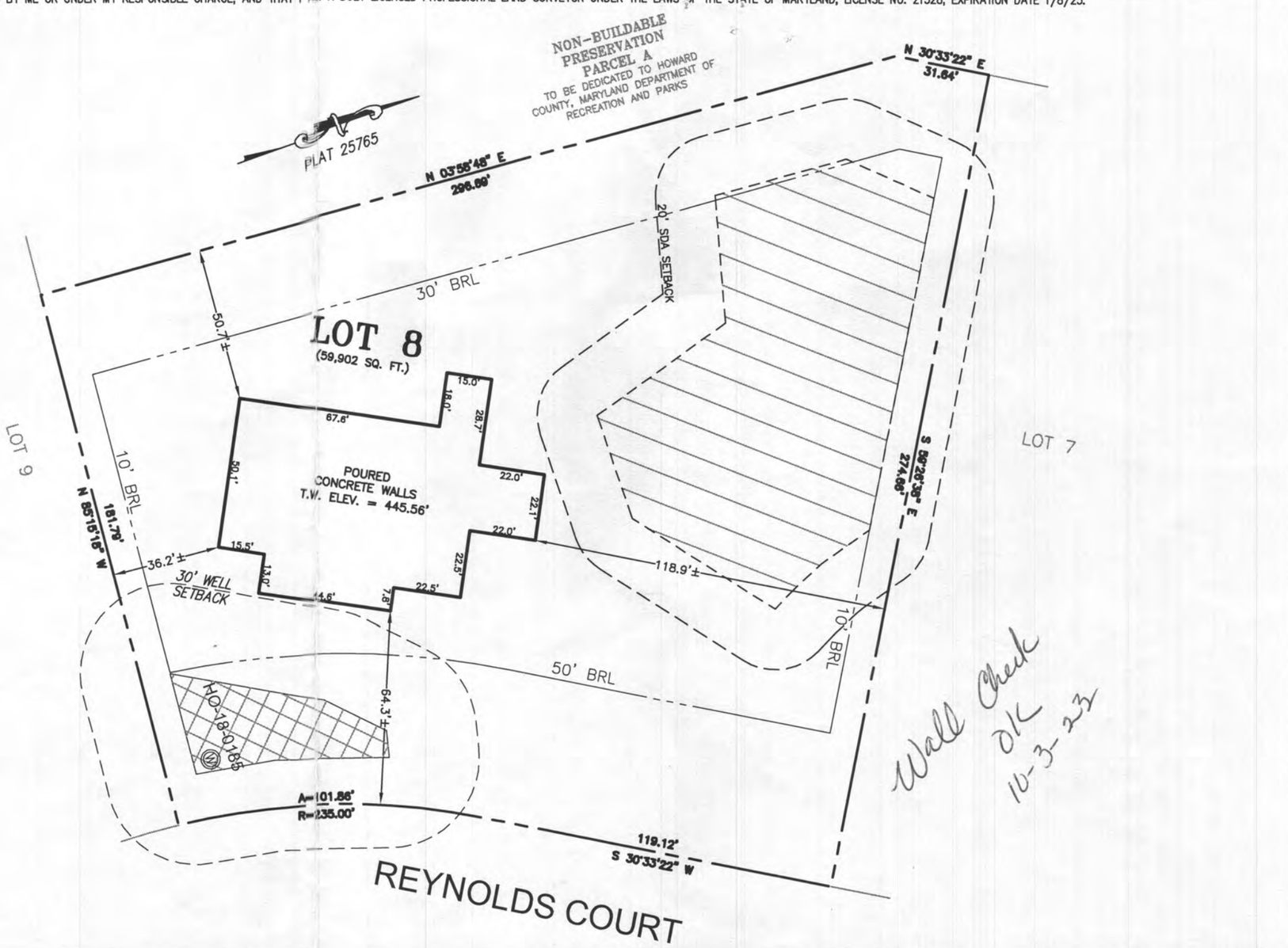
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/25.

LEGEND:

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



HOUSE ENLARGEMENT
NOT TO SCALE



Wall Check
DLC
10-3-23

WELL NUMBER: HO-18-0185

ADDRESS: 10629 REYNOLDS COURT
ELLICOTT CITY, MD 21042

PERMIT No.: B23000909

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

STATE OF MARYLAND
MICHAEL JOE BOYCE
07/28/23
NO. 21328
PROFESSIONAL LAND SURVEYOR

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.

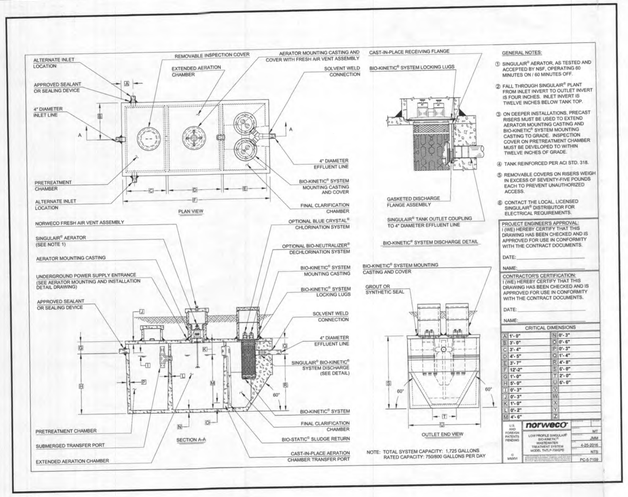
SIGNATURE: MICHAEL JOE BOYCE | 21328 MD. LIC NO. | 07/28/23 DATE

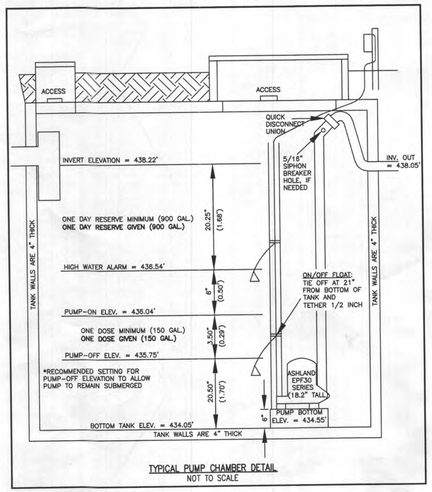
WALLCHECK
LOT 8
KINGS FOREST
LIBER 20039, FOLIO 212
PLAT NO. 25765
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

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

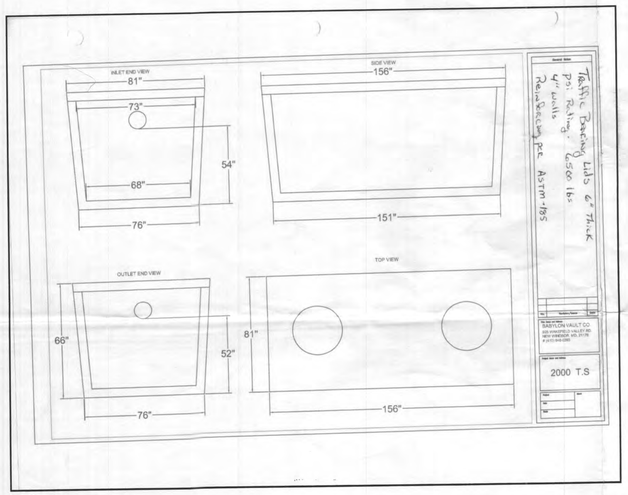
DATE: 07/28/2023	SCALE: 1"= 40'	FILE: WC LOT 8
CHK'D: M.J.B.	JOB NO: 3502	DRAWN: V.X.P.

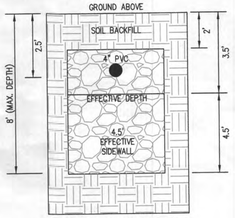
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/25.





TYPICAL PUMP CHAMBER DETAIL
NOT TO SCALE





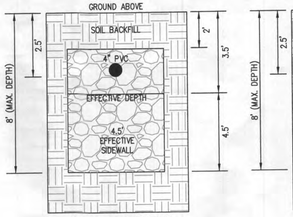
INITIAL SYSTEM (T1 AND T2)
TRENCH DETAIL
(NOT TO SCALE)

INITIAL TRENCH DATA:

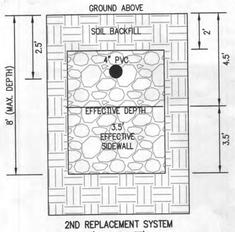
BOTTOM MAX. DEPTH (8')

TRENCH 1 (T1): 47.50 LF.
GROUND ABOVE = 444.10'
INV. IN = 441.60'
BOTTOM TRENCH = 436.10'

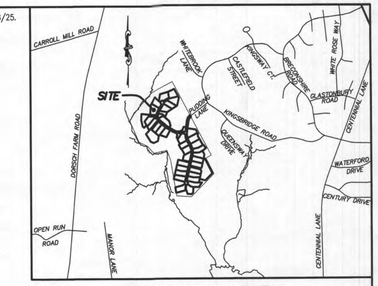
TRENCH 2 (T2): 47.50 LF.
GROUND ABOVE = 443.30'
INV. = 444.80'
BOTTOM TRENCH = 435.30'



1ST REPLACEMENT SYSTEM
(T3 AND T4)
TRENCH DETAIL
(NOT TO SCALE)



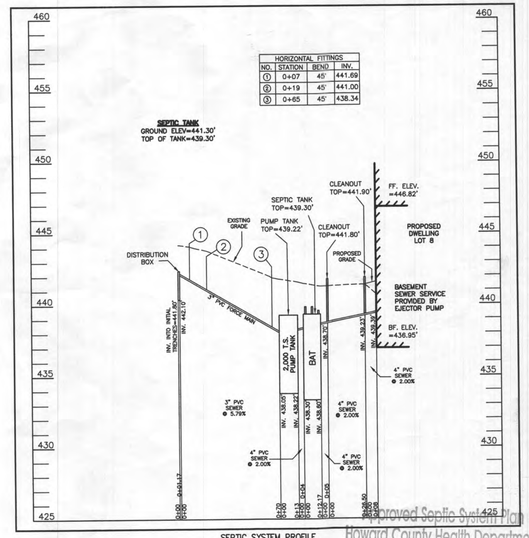
2ND REPLACEMENT SYSTEM
(T5 THRU T7)
TRENCH DETAIL
(NOT TO SCALE)



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 SEPTIC RESERVE AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEPTIC RESERVE 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 BENCHMARK ENGINEERING, INC., IN FEBRUARY 2014.
9. LOTS SHOWN HEREON ARE PER THE F-19-014 PLAN, APPROVED ON MARCH 5, 2020. RECORD PLATS ARE NOT RECORDED AT THIS TIME BUT ARE IN PROCESS THEREOF.



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

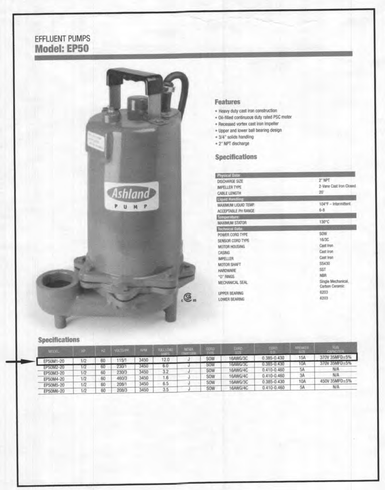
HOUSE OPTIONS:

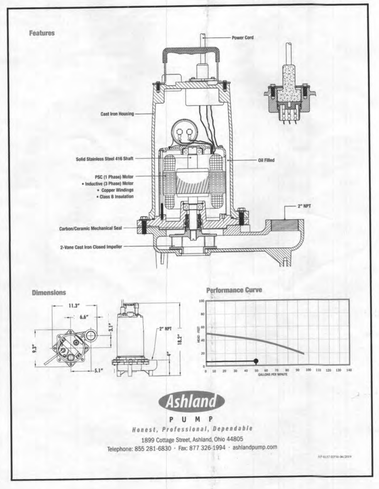
HOUSE TYPE: KALORAMA (MODERN FARMHOUSE)

TWO CAR SIDE ENTRY GARAGE	OPTION No. 012
DAYLIGHT BASEMENT	OPTION No. 018
WET BAR ROUGH-IN	OPTION No. 048246
ADDITIONAL TWO CAR FRONT ENTRY GARAGE	OPTION No. 263019
MULTI GENERATIONAL SUITE	OPTION No. 263073
GRAND MULTI GENERATIONAL SUITE	OPTION No. 263075
CEPHANKED CLOSET	OPTION No. 263111
PREP KITCHEN	OPTION No. 263158
LUXURY OUTDOOR LIVING SPACE	OPTION No. 263165
DAYLIGHT WINDOW/WELL	OPTION No. 543
DOUBLE WIDE DRIVEWAY TAIL	OPTION No. 851

LEGEND:

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





PUMP SYSTEM CALCULATIONS

TOTAL DOSE PER DAY = 150 GALLONS X 6 EVENTS PER DAY IS 900 GPD

TRENCH 1 (T1) INV. ELEV.=441.60' LENGTH=47.50'
TRENCH 2 (T2) INV. ELEV.=440.80' LENGTH=47.50'

FORCEMAIN LENGTH = 70.00' TYPE=SCH40

DESIGN FLOW = 900 GPD
PUMP OFF ELEV. = 435.75'
INV. OUT PUMP TANK = 438.05'
PUMP BOTTOM ELEV. = 434.55'
PUMP SELECTED = 1/2 HP

**PUMPING FORCEMAIN TO A DISTRIBUTION BOX AND GRAVITY FLOW FROM DISTRIBUTION BOX TO TRENCHES, NO MANIFOLD AND TRENCH CALCULATIONS NEEDED

MIN. SYSTEM DISCHARGE RATE = 50 GPM
MANIFOLD DIAMETER = — IN. VELOCITY = — FPS TRICTION LOSS (TABLE 4.4) = —
FORCE MAIN DIAMETER = 3 IN. VELOCITY = 2.17 FPS TRICTION LOSS (TABLE 4.4) = 0.58
MINIMUM DOSE = 150 GAL.

CALCULATE TOTAL DESIGN HEAD
LENGTH OF FM FROM PUMP TANK TO DISTRIBUTION BOX = 70.00'
OF (45°) BENDS IN FM = 3 (ADD 6' PIR BEND) = 18.00'
OF (90°) BENDS IN FM = N/A (ADD 10' PIR BEND) = N/A TOTAL PIPE/
TOTAL LENGTHS = 70.00' TOTAL ADD'L LENGTHS = 18.00' FRICTION LOSS = 88.00'
((50 GPM OF 3" PVC = 0.58 PER 100' PIPE): 0.58 / 100' = L0058 x 88.00' = 0.51')

FRICTION HEAD = 0.51' FT. (PER ABOVE CALCULATION)
STATIC HEAD = 6.35' FT. (HIGHEST POINT IN DISTRIBUTION SYSTEM – PUMP OFF FLOAT ELEVATION)
TOTAL DYNAMIC HEAD = 6.86' FT. (FRICTION HEAD + STATIC HEAD)

THEREFORE A PUMP CAPABLE OF DELIVERING AT LEAST 50 GPM AGAINST 6.85' OF HEAD IS REQUIRED.
EPF50M1-20, 1/2 H.P. IS EFFICIENT

STATE OF MARYLAND MICHAEL JOE BENARD 21328 PROFESSIONAL LAND SURVEYOR
03/07/23

SEWAGE DISPOSAL SYSTEM DATA (6 BDRM):

PROPOSED INVERT AT FOUNDATION WALL: 439.39'
1. EX. GRADE OVER TANK: 441.30'
PROPOSED GRADE OVER TANK: 441.30'
INVERT IN: 438.60' INVERT OUT: 438.30'
2. DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 444.20'
PROPOSED GRADE OVER TANK: 444.20'
INVERT IN: 442.10' INVERT OUT: 441.80'
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 XX" GRAVEL BELOW PIPE
12' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.38 (SIDEWALL REDUCTION) = 95.00 LF MIN.
USE 2 47.50' LONG TRENCHES = 95.00 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 XX" GRAVEL BELOW PIPE
12' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.38 (SIDEWALL REDUCTION) = 95.00 LF MIN.
USE 2 47.50' LONG TRENCHES = 95.00 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 XX" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF ÷ 3' WIDTH = 375 LF x 0.45 (SIDEWALL REDUCTION) = 168.75 LF MIN.
USE 3 56.25' LONG TRENCHES = 168.75 LF

Approved Septic System Plan
Howard County Health Department
DBenard 4-3-23
Signature Date

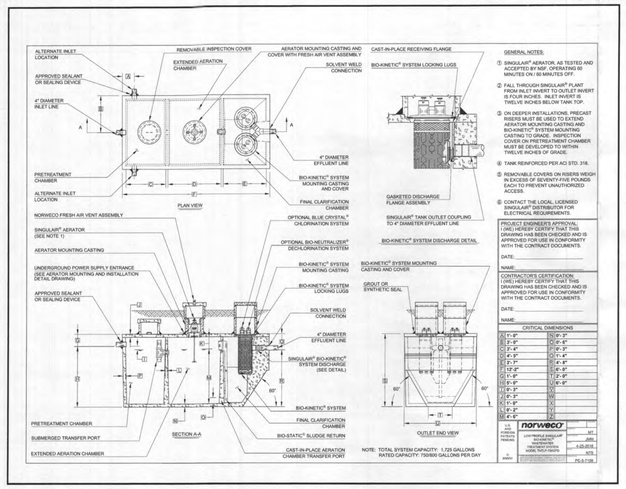
WELL LOCATION CERTIFICATION:

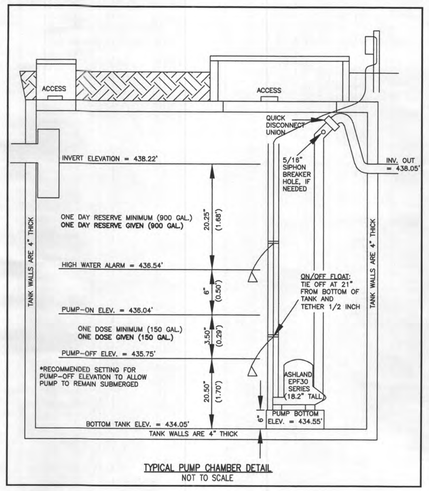
THE EXISTING WELL SHOWN FOR LOT 8 (TAG NO. HO-18-0185) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

SITE PLAN FOR BAT INSTALLATION
LOT 8 10629 Reynolds
KINGS FOREST Court
LIBER 20039, FOLIO 212
PLAT NO. 25765
ELECTION DISTRICT No. 2
HOWARD COUNTY, MARYLAND
ADDRESS: 10629 REYNOLDS COURT
ELLICOTT CITY, MARYLAND 21042

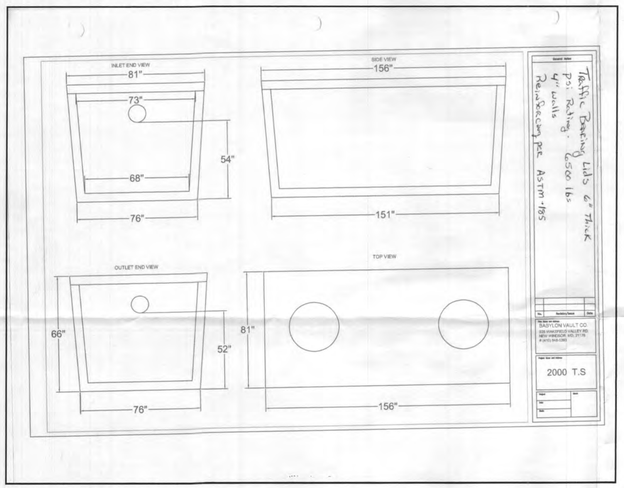
ESE CONSULTANTS
ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL
ESE Consultants, Inc.
6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046
T: 410-872-9105

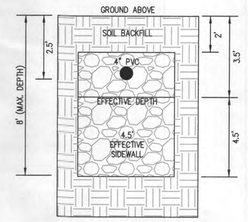
DATE: 03/06/2023 SCALE: 1"=30' FILE: BAT LOT 8
CHK'D: M.J.B JOB NO: 3502 DRAWN: R.C.K





TYPICAL PUMP CHAMBER DETAIL
NOT TO SCALE





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

INITIAL TRENCH DATA:

BOTTOM MAX. DEPTH (8')

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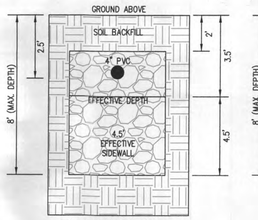
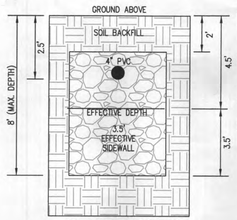
BOTTOM TRENCH = 435.30'

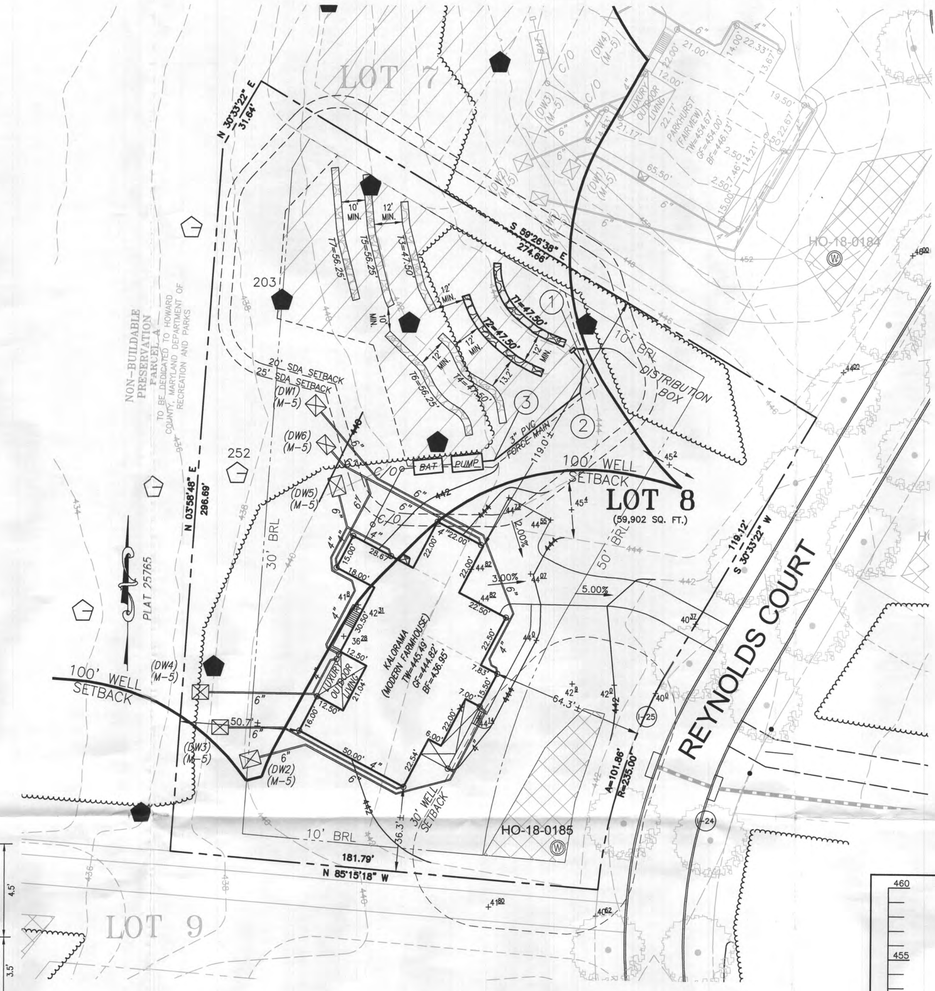


1ST REPLACEMENT SYSTEM
(T3 AND T4)
TRENCH DETAIL
(NOT TO SCALE)



2ND REPLACEMENT SYSTEM
(T5 THRU T7)
TRENCH DETAIL
(NOT TO SCALE)

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 1/8/25.


LOT 7
LOT 8
(59,902 SQ. FT.)
LOT 9
HO-18-0184
HO-18-0185
N 37°53'22" E 31.64'
S 86°26'38" E 274.65'
N 03°56'48" E 296.69'
S 32°33'22" W 118.12'
N 85°15'18" W 181.79'
PLAT 25765
REYNOLDS COURT
203
252
20' SDA SETBACK
25' SDA SETBACK
100' WELL SETBACK
30' WELL SETBACK
30' BRL
50' BRL
10' BRL
DISTRIBUTION BOX
BAT
PUMP
3" PVC FORCE MAIN
119.0'
KALORAMA (MODERN FARMHOUSE) TW=445.60' GF=444.00' BF=436.85'
1,000 T.G. PUMP
1,000 T.G. PUMP
(DW1) M-5
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NON-BUILDABLE PRESERVATION PARCEL 'A' TO BE CONVEYED TO HOWARD COUNTY, MARYLAND DEPARTMENT OF RECREATION AND PARKS
100' WELL SETBACK
100' WELL SETBACK
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6"
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