

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

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Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 12/1/24 ONSITE SEWAGE DISPOSAL SYSTEM P 570863

APPROVAL DATE: 5/11/22 (S) PERMIT: CONSTRUCTION A

PROPERTY ADDRESS: 6017 BRICKER ROAD, DAYTON, MD 21036

SUBDIVISION: WILLOWSHIRE LOT: 5 TAX ID: 03-602993

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: EP30M1-20 PUMP SIZE 0.3 Hp PUMP TANK CAPACITY: 2000

DISTRIBUTION SYSTEM: [X] GRAVITY [] PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 1.2

Table with 2 columns: Field Name (TRENCHES, LOCATION, NOTES) and Field Value (Linear feet required, trench width, location instructions, notes on cleanouts and testing).

ISSUED BY: R BRICKER (H.D.) ISSUE DATE: 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
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'	3'	4'
NUMBER OF TRENCHES <u>3</u>		
TOTAL LENGTH <u>207 F</u>		
ABSORPTION AREA <u>621 SF + SIDE WALL</u>		
DISTRIBUTION BOX LEVEL <u>PUMP</u>		
DISTRIBUTION BOX BAFFLE <u>BACK</u>		
DISTRIBUTION BOX PORT <u>YES</u>		

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	<u>YES</u>
MANUFACTURER	<u>BACKLWER</u>
CAPACITY	<u>2000</u> GAL
SEAM LOC	<u>TOP</u>
TANK LID DEPTH	<u>1.5'</u>
BAFFLES	<u>YES</u>
BAFFLE FILTER	<u>-</u>
MANHOLE LOC	<u>FRONT/BACK</u>
6" PORT LOC	<u>-</u>
WATERTIGHT TEST	<u>-</u>
SLOTTED	<u>YES</u>
DATE ON LID	<u>10/14/2021</u>
PUMP/SEPTIC TANK LEVEL	<u>YES</u>
MANUFACTURER	<u>BACKLWER</u>
CAPACITY	<u>2000</u> GAL
SEAM LOC	<u>TOP</u>
TANK LID DEPTH	<u>1.5'</u>
BAFFLES	<u>-</u>
BAFFLE FILTER	<u>-</u>
MANHOLE LOC	<u>FRONT/BACK</u>
6" PORT LOC	<u>-</u>
WATERTIGHT TEST	<u>-</u>
SLOTTED	<u>-</u>
DATE ON LID	<u>10/18/2021</u>

PRE-CONSTRUCTION:

01/04/2022 LAID OUT 3+70' TRS ON CONT; CONFIRMED SPECS. GP

INSTALLATION:

01/06/2022 INSTALLED SAC - PARTIAL SL. GP 01/18/2022 INSTALLED FM; TANKS SET; D BOX SET - FM REDUCER COMP. 3" - 4" INTO D BOX OK TO RUN 3" INTO BOX + 90 DOWN AS BAFFLE NEXT INSTALL. VERBAL FROM CONTRACTOR ON ST BAFFLES. REINSPE PIA. GP 5/11/22 Alarm obs. to function. Alarm located on circuit/alarm box on outside wall of house. Alarm and pump observed to be on separate circuits. Pump obs. to function with water flowing in d-box. (ST)

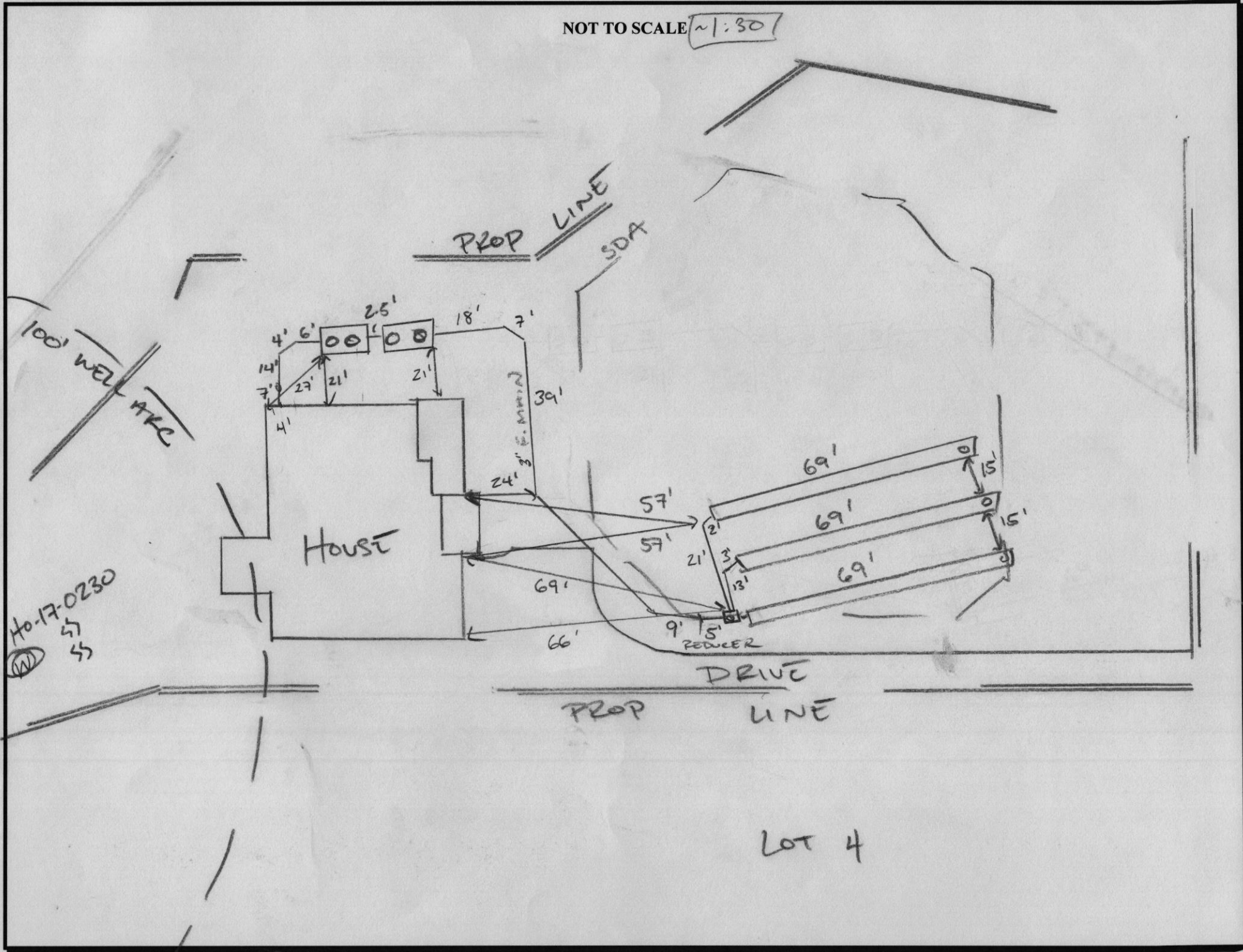
FINAL INSPECTOR

Susan Thomas

DATE OF APPROVAL

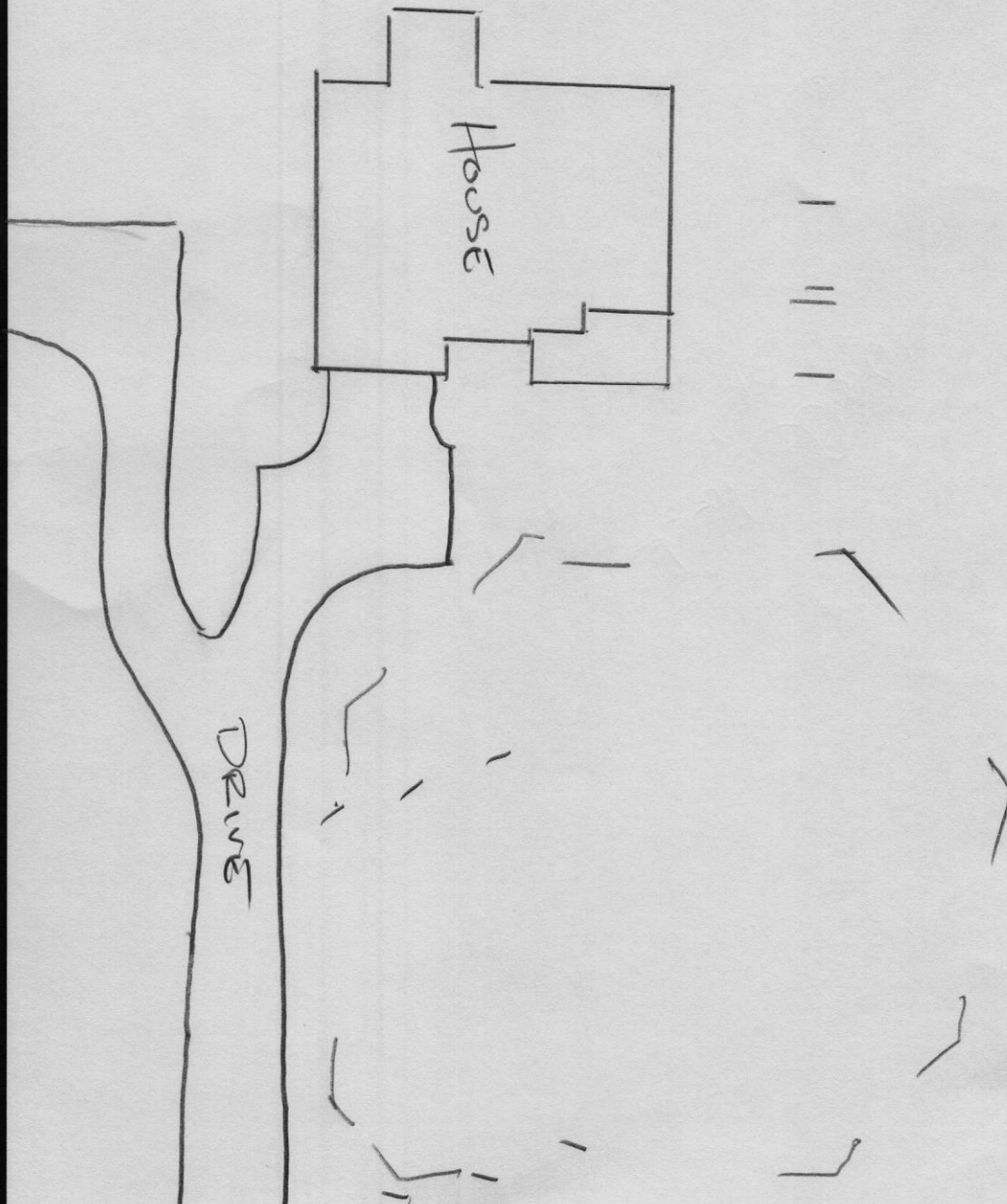
5/11/22

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6038 BRICKER ROAD - LOT 5

Ho-17-0230 (N)



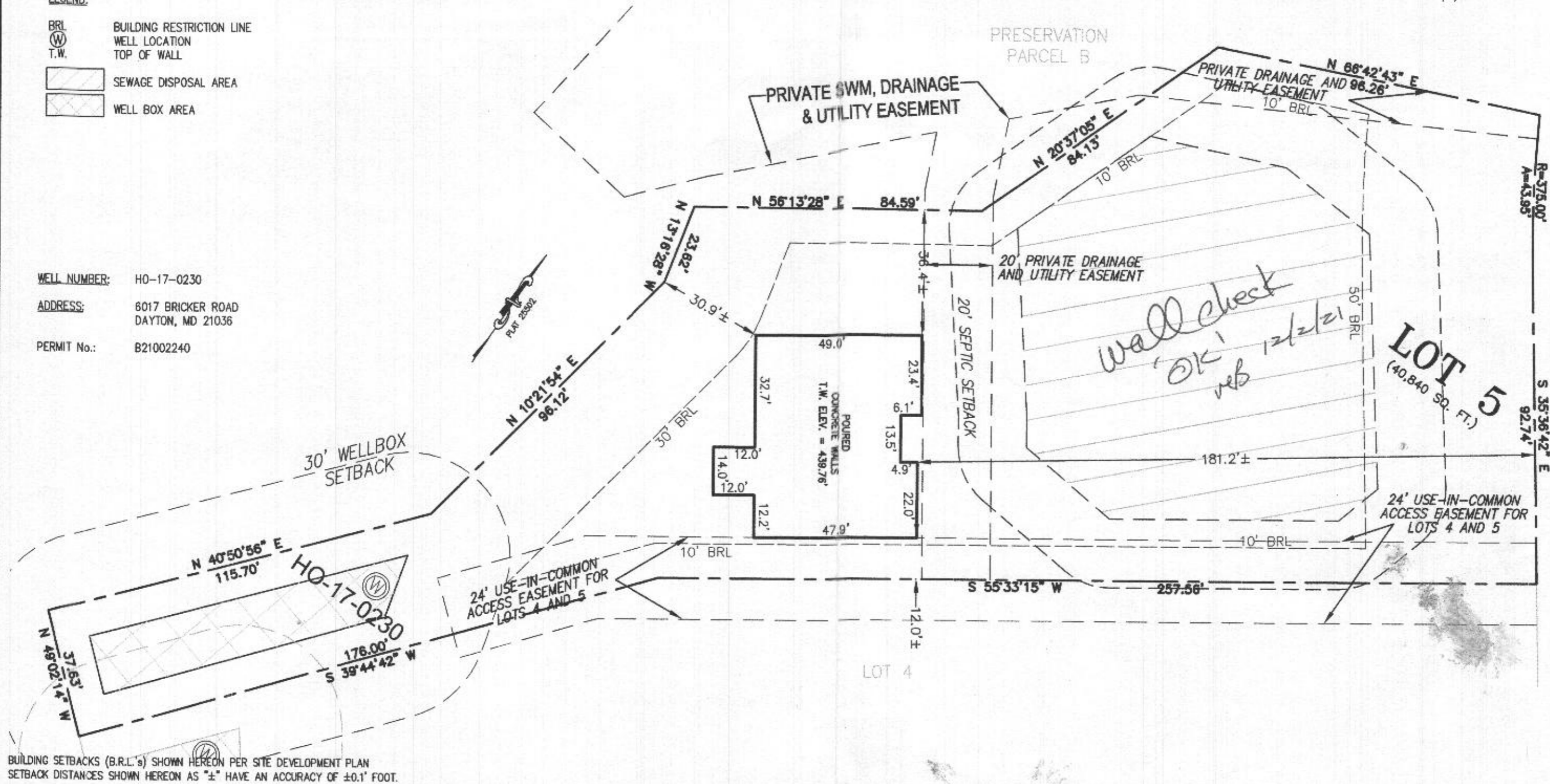
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BRICKER ROAD

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
 - W WELL LOCATION
 - T.W. TOP OF WALL
 - SEWAGE DISPOSAL AREA
 - WELL BOX AREA

WELL NUMBER: HO-17-0230
 ADDRESS: 6017 BRICKER ROAD
 DAYTON, MD 21036
 PERMIT No.: B21002240



BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT 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.

SIGNATURE: *Michael Joe Boyce* 21328 11/30/21
 MD. LIC NO. DATE

WALLCHECK
 LOT 5
WILLOWSHIRE
 LIBER 18479, FOLIO 296
 PLAT NO. 25502
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

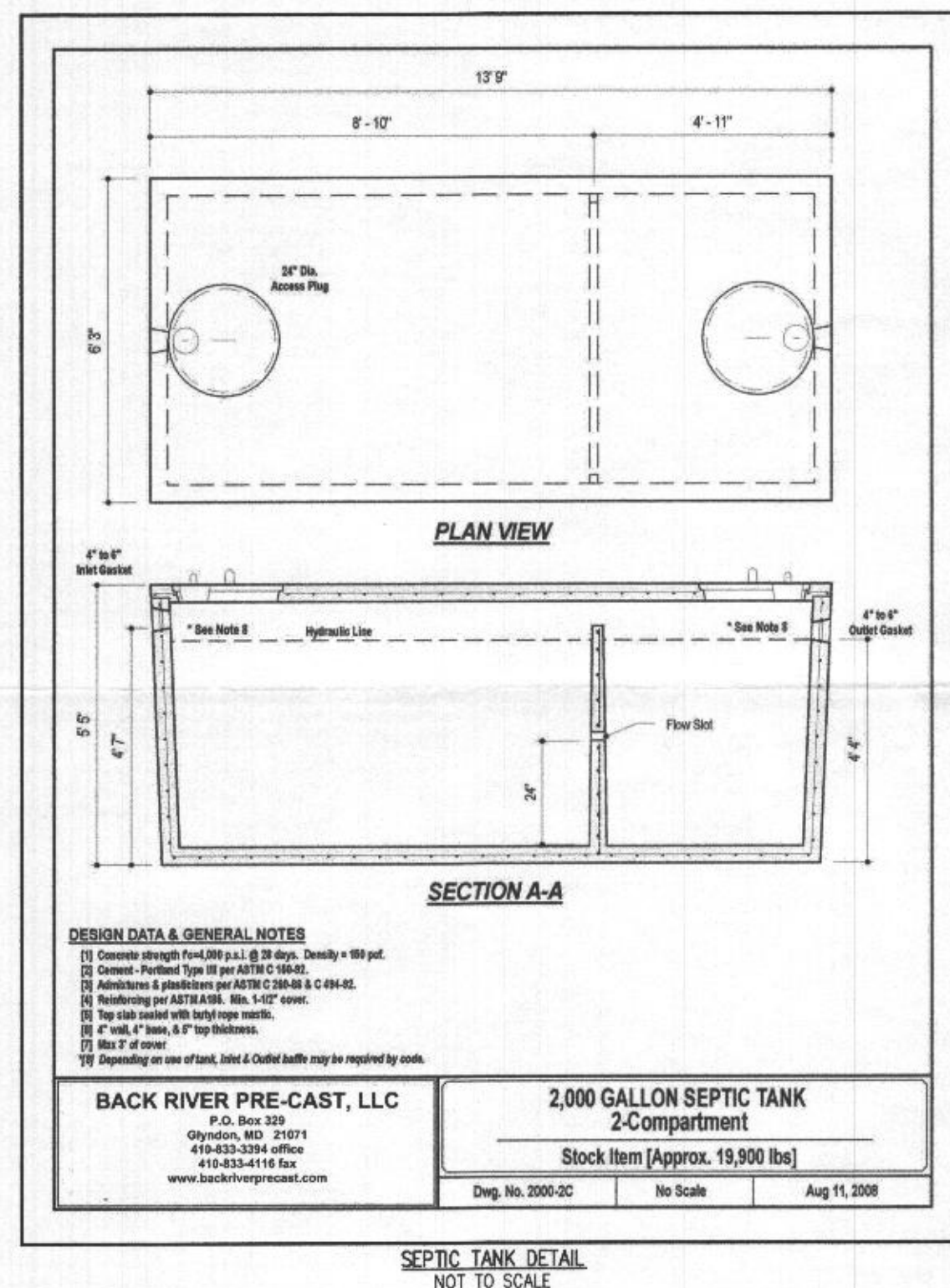
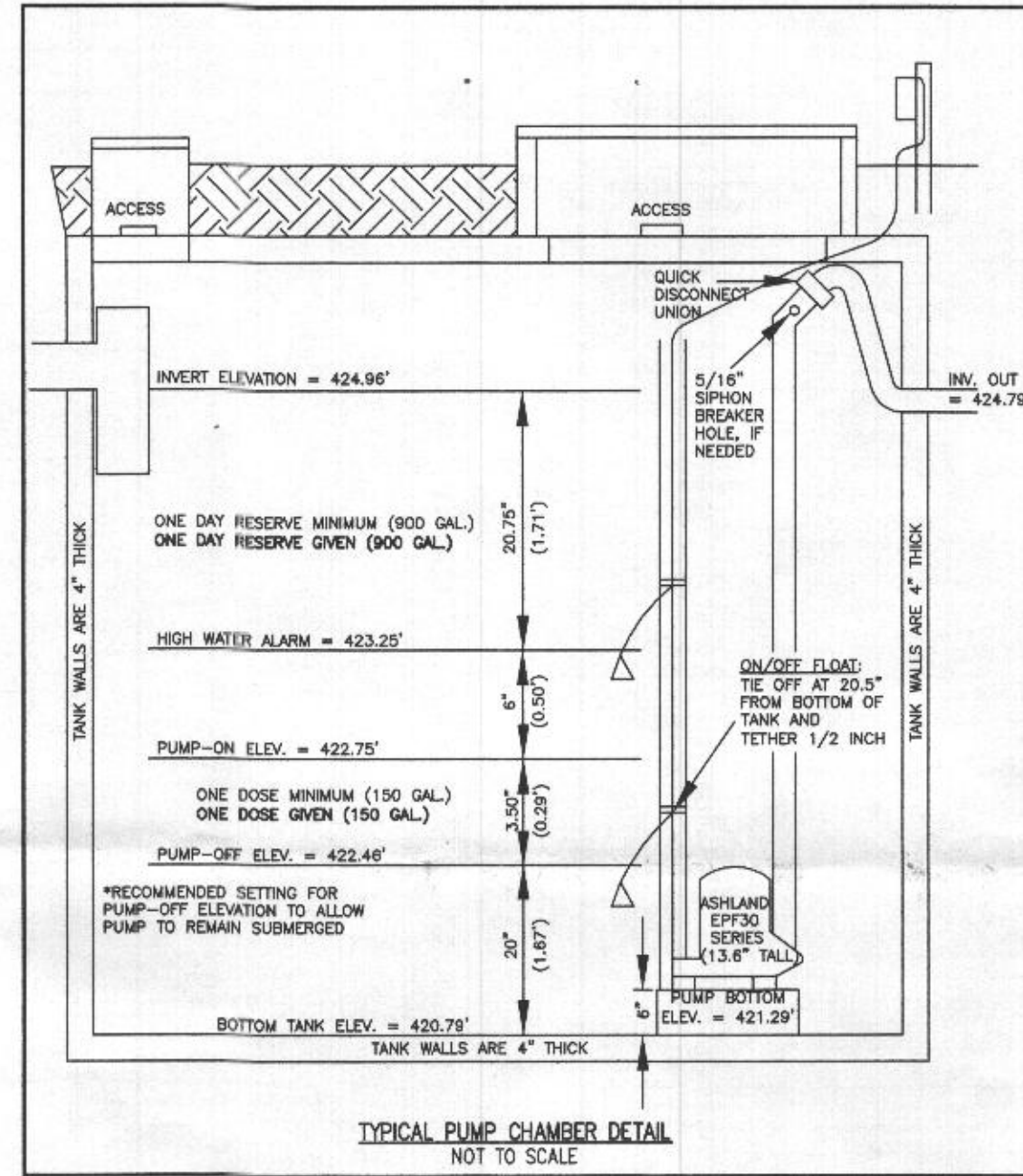
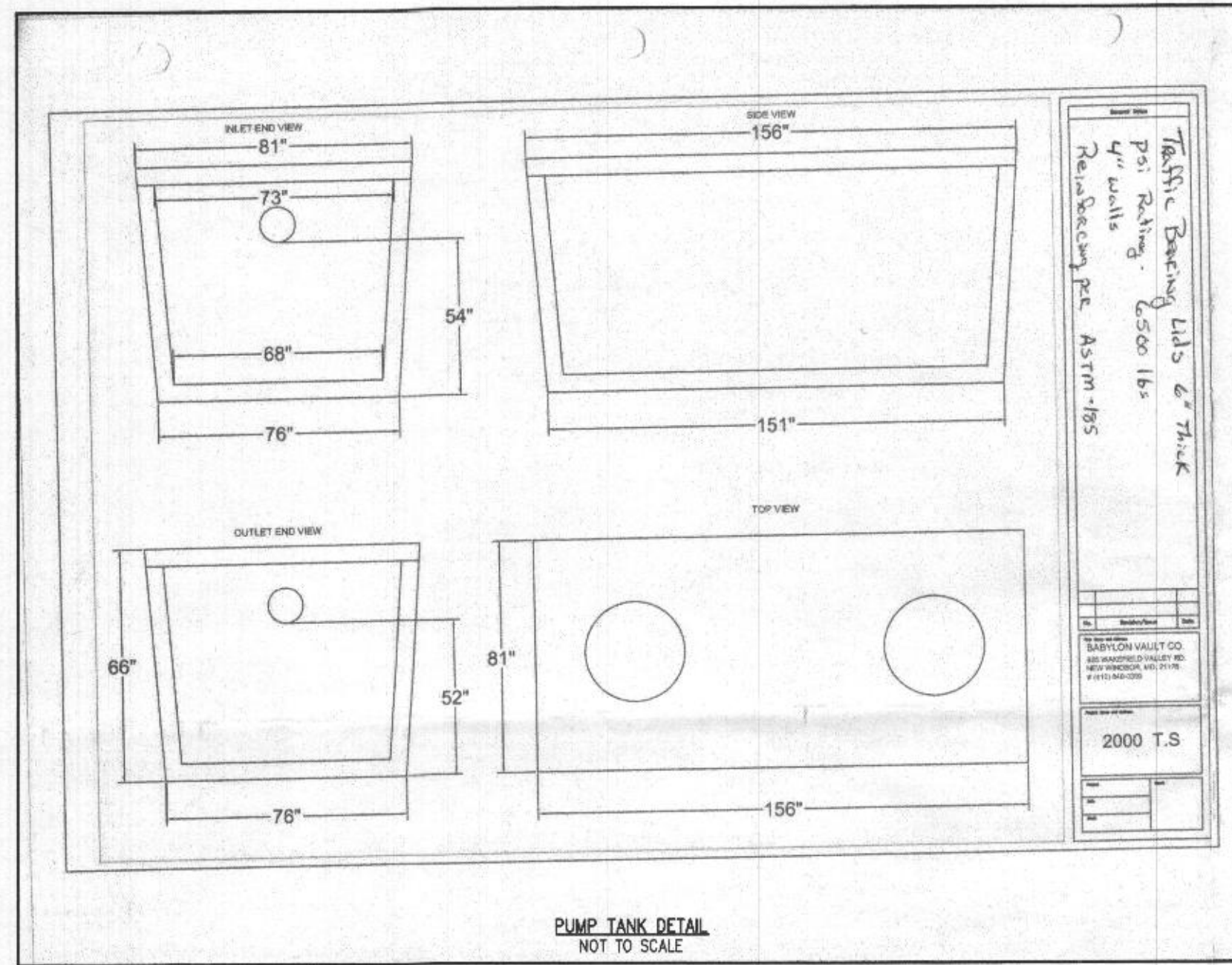
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 ESE Consultants, Inc.
 6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046
 T: 410-872-9105

DATE: 11/30/2021 SCALE: 1"=30' FILE: WC LOT 5
 CHK'D: M.J.B. JOB NO: 4520 DRAWN: V.X.P.

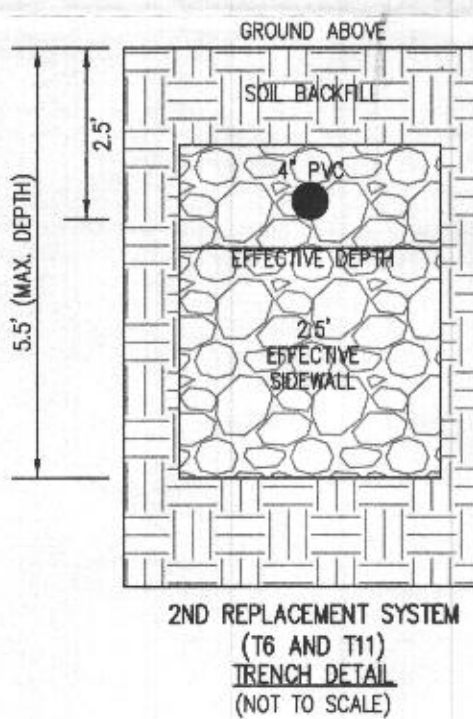
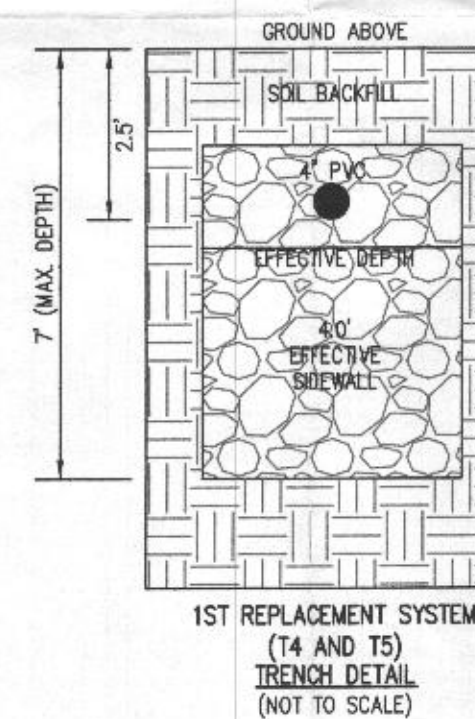
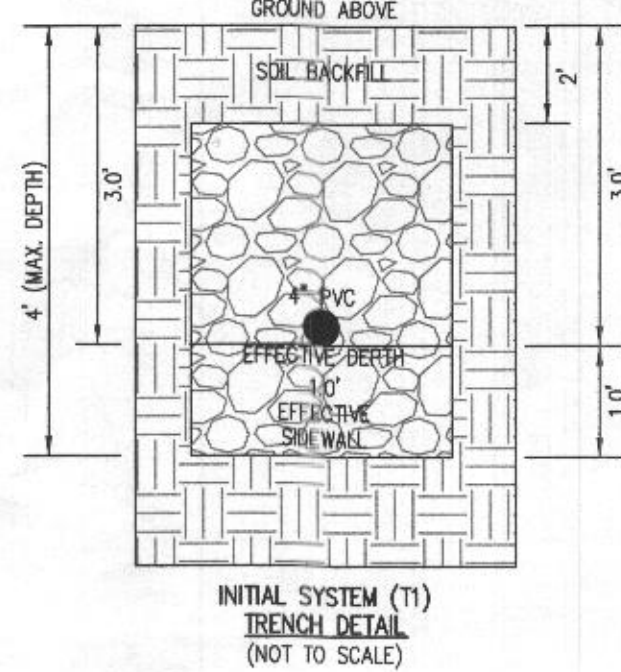
BRICKER ROAD





INITIAL TRENCH DATA:

- BOTTOM MAX. DEPTH (4')**
- TRENCH 1 (T1): 69.25 LF
GROUND ABOVE = 441.20'
INV. IN = 438.20'
BOTTOM TRENCH = 437.20'
 - TRENCH 2 (T2): 69.25 LF
GROUND ABOVE = 438.70'
INV. IN = 436.20'
BOTTOM TRENCH = 434.70'
 - TRENCH 3 (T3): 69.25 LF
GROUND ABOVE = 436.40'
INV. IN = 433.90'
BOTTOM TRENCH = 432.40'



- LEGEND:**
- PASSSED PERC TEST LOCATION
 - FAILED PERC TEST LOCATION
 - EXISTING WELL LOCATION
 - C/O CLEANOUT
 - TW TOP OF WALL
 - BF BASEMENT FLOOR
 - BR BUILDING RESTRICTION LINE
/>
 - PRIVATE SEWAGE DISPOSAL AREA TO BE REMOVED
 - PROPOSED TREE LOCATION
 - EXISTING TREE LOCATION

HOUSE OPTIONS:

- HOUSE TYPE: BEMICK (MODERN FURNISHING)
- TWO CAR FRONT ENTRY GARAGE
 - WALK-OUT BASEMENT
 - ADDITIONAL 1" TO BSMT FOUNDATION WALLS
 - WALK-OUT LUXURY COVERED DECK

LOW PRESSURE DISTRIBUTION SYSTEM CALCULATIONS

FLOW = 40 GPM
TIMED DOSE = 40 GPM @ 3.75 MINUTE INTERVALS IS 150 GALLONS PER DOSE
TOTAL DOSE PER DAY = 150 GALLONS X 6 EVENTS PER DAY IS 900 GPD

TRENCH 1 (T1) INV. ELEV.=438.20' LENGTH=69.25'
TRENCH 2 (T2) INV. ELEV.=436.20' LENGTH=69.25'
TRENCH 3 (T3) INV. ELEV.=433.90' LENGTH=69.25'

FORCEMAIN LENGTH = 123.00' TYPE=SC440

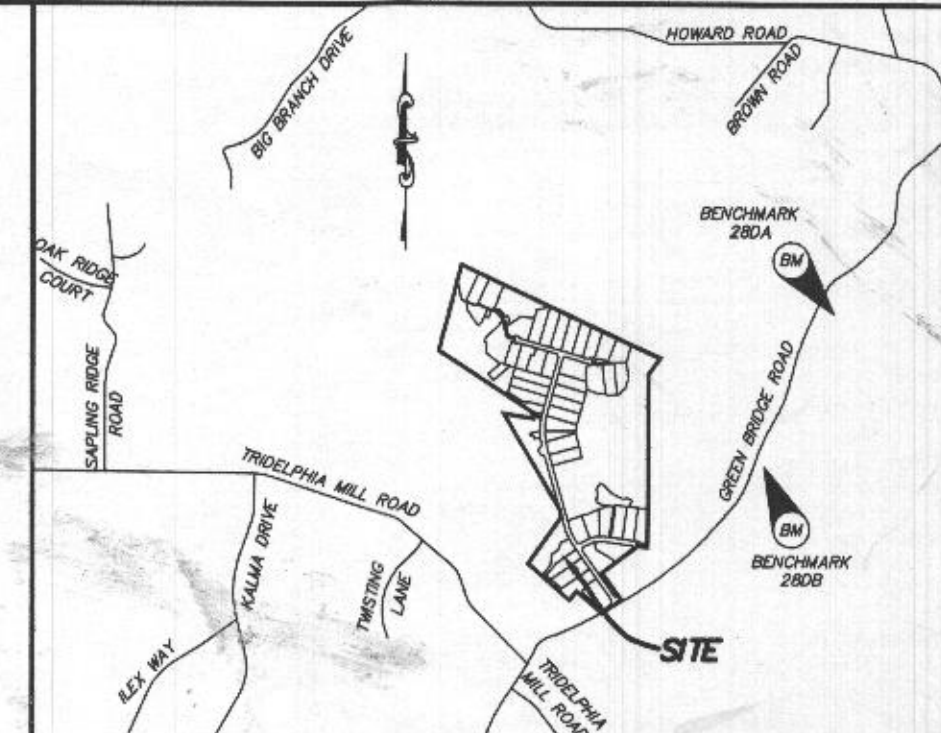
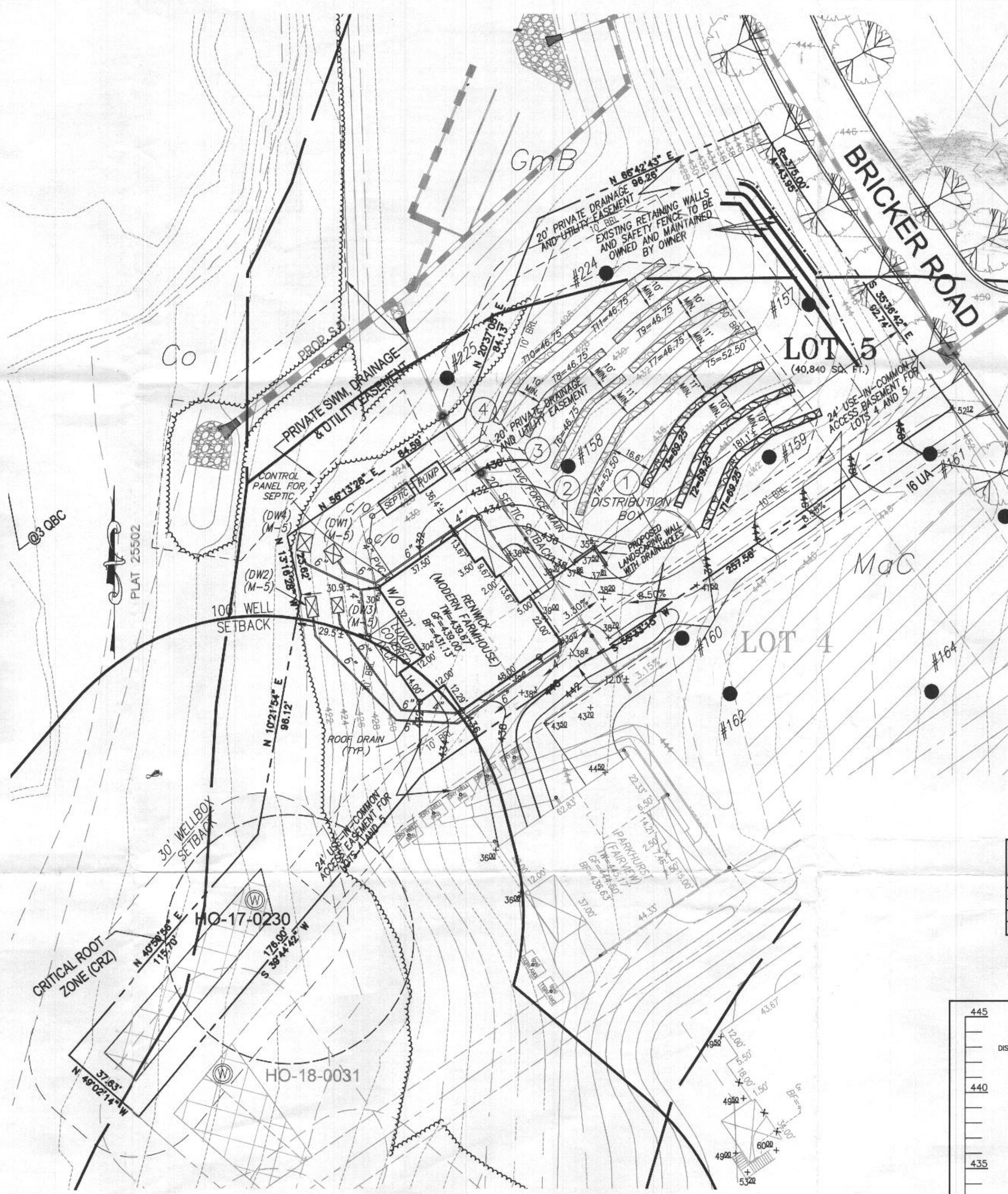
MIN. SYSTEM DISCHARGE RATE = 40 GPM
MANFOLD DIAMETER = 4" IN. VELOCITY = 1.73 FPS FRICTION LOSS (TABLE 4.4) = 0.39
FORCE MAIN DIAMETER = 3" IN. VELOCITY = 1.73 FPS FRICTION LOSS (TABLE 4.4) = 0.39
MINIMUM DOSE = 150 GAL.

CALCULATE TOTAL DESIGN HEAD

LENGTH OF FM FROM PUMP TANK TO DISTRIBUTION BOX = 123.00'
OF (45) BENDS IN FM = 4 (ADD 6' PER BEND) = 24.00'
OF (90) BENDS IN FM = N/A (ADD 10' PER BEND) = N/A TOTAL PIPE/ TOTAL LENGTHS = 123.00' + 24.00' = 147.00'
TOTAL ADD'L LENGTHS = 24.00' FRICTION LOSS = 147.00' x 0.575 = 84.525'
(40 GPM OF 3" PVC = 0.39 PER 100' PIPE; 0.39 / 100' = 0.0039 x 147.00' = 0.575')

FRICTION HEAD = 0.57' FT. (FOR ABOVE CALCULATION)
STATIC HEAD = 16.44' FT. (HIGHEST POINT IN DISTRIBUTION SYSTEM - PUMP OFF FLD#1 ELEVATION)
TOTAL DYNAMIC HEAD = 17.01' FT. (FRICTION HEAD + STATIC HEAD)

THEFORE A PUMP CAPABLE OF DELIVERING AT LEAST 40 GPM AGAINST 17.01' OF HEAD IS REQUIRED.
EP30MI-20, 3/10 H.P. IS EFFICIENT

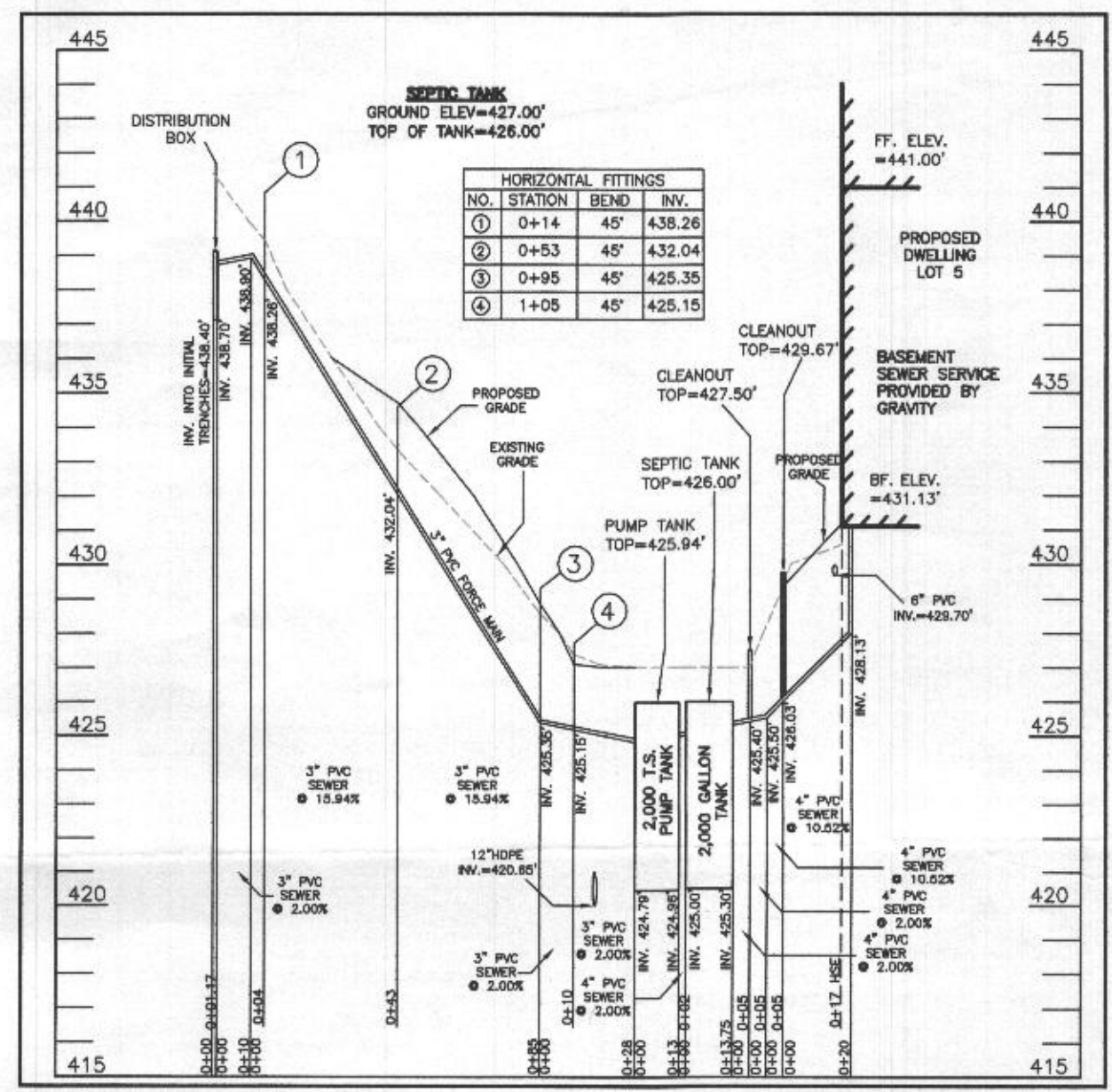


BENCHMARK 280A
N: 570,624.997, E: 1,313,434.228, EL: 564.389'
BENCHMARK 280B
N: 569,055.561, E: 1,313,795.348, EL: 537.391'

- 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 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 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.S.L.'S) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "L" 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 WILL BE REQUIRED.
 6. THE MINIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 7. THE LOT SHOWN HEREON COMPLES 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 AND A TOPOGRAPHIC SURVEY PREPARED BY BOHLER ENGINEERING ON 08/25/15 AND REVISED ON 09/03/15.

SOILS LEGEND

SOIL	NAME	CLASS	Kw
Co	CODORUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT CLAY	C	32
GmB	GLENVILLE LOAM, 3 TO 5 PERCENT SLOPES	C	43
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	28



WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 5 (TAG NO. HO-17-0230) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 5
WILLOWSHIRE
LIBER 18479, FOLIO 311
PLAT NO. 25502
ELECTION DISTRICT No. 5
HOWARD COUNTY, MARYLAND
ADDRESS: 6017 BRICKER ROAD
DAYTON, MARYLAND 21036

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

DATE: 06/07/2021 SCALE: 1"=30' FILE: OSDS LOT 5
CHKD: M.L.B. JOB NO: 4520 DRAWN: R.C.K.

EFFLUENT PUMPS Model: EPF30

Features:

- 3/4" NPT discharge and 1/2" NPT inlet
- 3/4" NPT discharge and 1/2" NPT inlet
- 3/4" NPT discharge and 1/2" NPT inlet
- 3/4" NPT discharge and 1/2" NPT inlet

Specifications:

Model	Flow (GPD)	Head (FT)	Power (W)	Material
EPF30-20	30	20	100	PP
EPF30-25	30	25	100	PP
EPF30-30	30	30	100	PP
EPF30-35	30	35	100	PP
EPF30-40	30	40	100	PP
EPF30-45	30	45	100	PP
EPF30-50	30	50	100	PP
EPF30-55	30	55	100	PP
EPF30-60	30	60	100	PP
EPF30-65	30	65	100	PP
EPF30-70	30	70	100	PP
EPF30-75	30	75	100	PP
EPF30-80	30	80	100	PP
EPF30-85	30	85	100	PP
EPF30-90	30	90	100	PP
EPF30-95	30	95	100	PP
EPF30-100	30	100	100	PP

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