

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: 5-20-22 **ONSITE SEWAGE DISPOSAL SYSTEM** P 571553

APPROVAL DATE: 07/29/2022 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 15685 OLD FREDERICK ROAD, WOODBINE, MD 21797

SUBDIVISION: TAX MAP 8, PARCEL 2 LOT: ---- TAX ID: 04-315383

CONTRACTOR: Fogles Septic Clean Inc. EMAIL: king@foglesinc.com

CONTRACTOR ADDRESS: 580 Church Road, Sykesville, MD 21784 PHONE: 410-795-5670

PROPERTY OWNER: WYNNE FAMILY LLC EMAIL: Wynnebrian65@gmail.com

OWNER ADDRESS: 2065 HIGHWAY A1A #1201, INDIAN HARBOR BEACH, FL 32937 PHONE: _____

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: BABYLON VAULT CO.

PUMP MODEL: GOULDS WE-03L PUMP SIZE: 0.3 Hp PUMP TANK CAPACITY: 1500

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>150</u>	INLET DEPTH: <u>2.0</u>
	TRENCH WIDTH: <u>2</u>	MAXIMUM BOTTOM DEPTH: <u>6.5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.0</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 AT LEAST ONE CLEANOUT IN SHC. ATTENDING ENVIRONMENTAL SANITARIAN TO DETERMINE IF SOIL CONDITIONS INDICATE THAT A WATERTIGHT TEST OF SEPTIC TANK AND PUMP TANK IS NEEDED. THE INSTALLED SYSTEM MUST PASS A PUMP & ALARM TEST PRIOR TO FINAL APPROVAL OF THIS PERMIT AND HEALTH DEPARTMENT APPROVAL FOR USE & OCCUPANCY	

ISSUED BY: R BRICKER ISSUE DATE: 5-20-22 EXPIRATION DATE: 5-20-23

- 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 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
- ELECTRICAL PERMIT ISSUED E 22000554
- 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
attached

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
2'	2'	6.5'
NUMBER OF TRENCHES		2
TOTAL LENGTH		151'
ABSORPTION AREA		453 sq ft + sidewall
DISTRIBUTION BOX LEVEL		N/A
DISTRIBUTION BOX BAFFLE		45° down
DISTRIBUTION BOX PORT		PVC

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	yes
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	top
TANK LID DEPTH	2'
BAFFLES	inlet + outlet
BAFFLE FILTER	-
MANHOLE LOC	inlet + outlet
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	4-18-22
PUMP/SEPTIC TANK LEVEL	yes
MANUFACTURER	Babylon
CAPACITY	1500 GAL
SEAM LOC	top
TANK LID DEPTH	2'
BAFFLES	inlet
BAFFLE FILTER	-
MANHOLE LOC	inlet + outlet
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	-
DATE ON LID	

PRE-CONSTRUCTION:

5/23/22 - laid out 2 trenches along contour, 75' x 2 septic tanks to be installed in line to prevent so many 90° turns, contractor informed that if the area where the tanks are to be installed has water intrusion when digging then the tanks will both need water tight testing and may possibly need brackets to hold them down. (S) 5/23/22 - contacted by contractor who said the holes for the tanks was bone dry so no need for water tight tests. (S)

INSTALLATION:

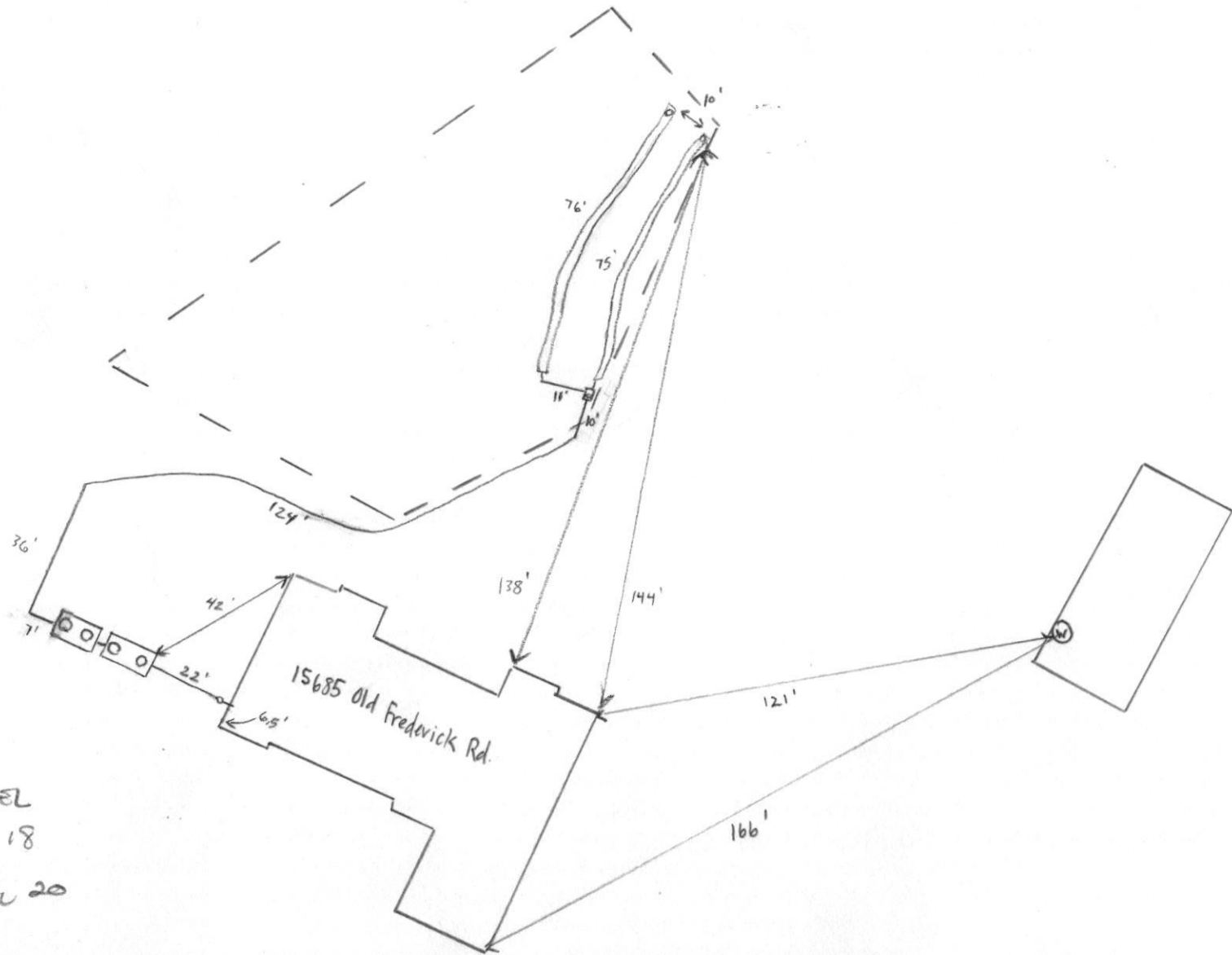
5/24/22 SHC, SL constructed, tanks set, FM installed, d-box set and 1x76 trench installed. (S) 5/25/22 Second trench complete. Reinsp for P/A. (S) 07/27/2022 PUMP FUNCTIONS, ALARM FUNCTIONS. UNABLE TO INSPECT ELECTRICAL PANEL (P) 07/28/2022 ELECTRICAL ON S-V-B PANEL BREAKERS 18 AND 20. (S)

FINAL INSPECTOR

DATE OF APPROVAL

07/28/2022

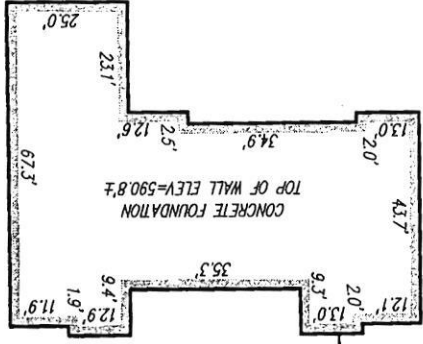
NOT TO SCALE 1" = 40'



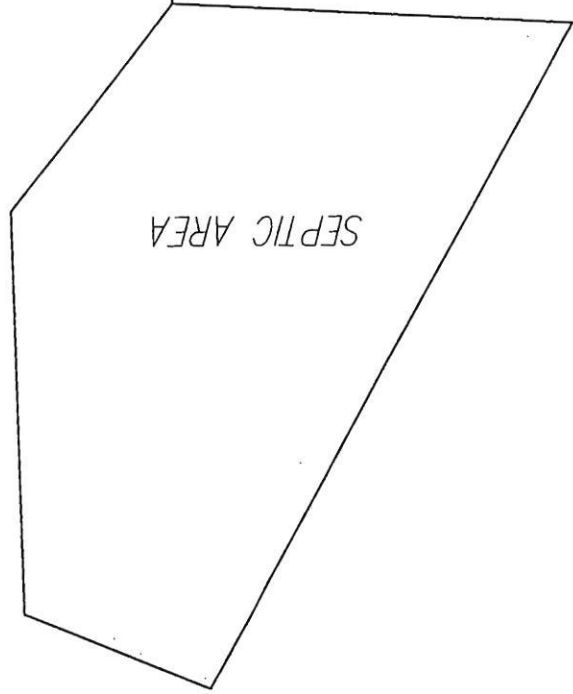
SUB PANEL
SEPTIC 18
SEPTIC
CONTROL 20

Approved
-Kuo
Will Use

EXISTING WELL
TAG # HO-20-0119



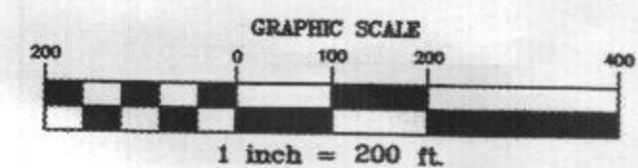
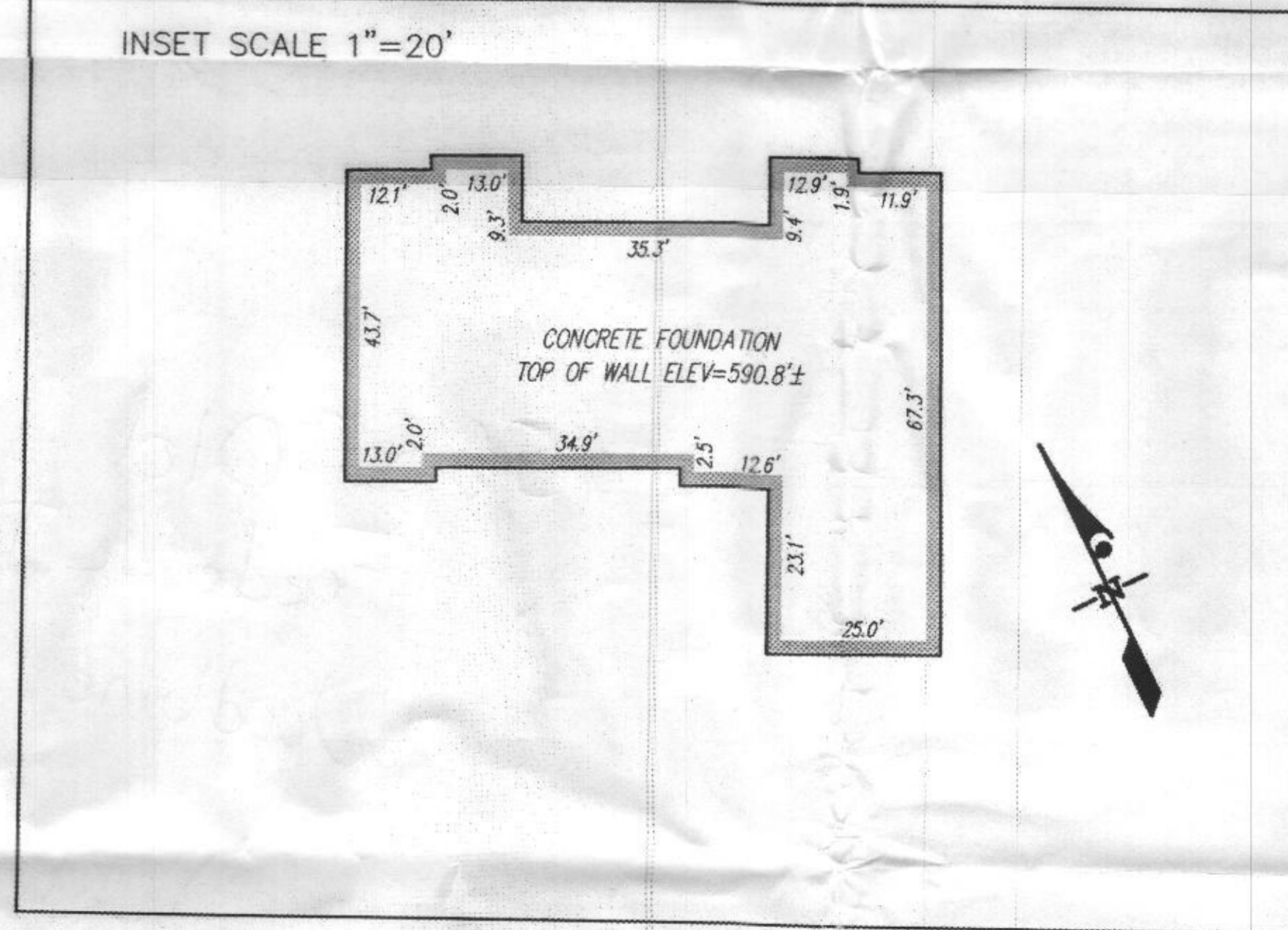
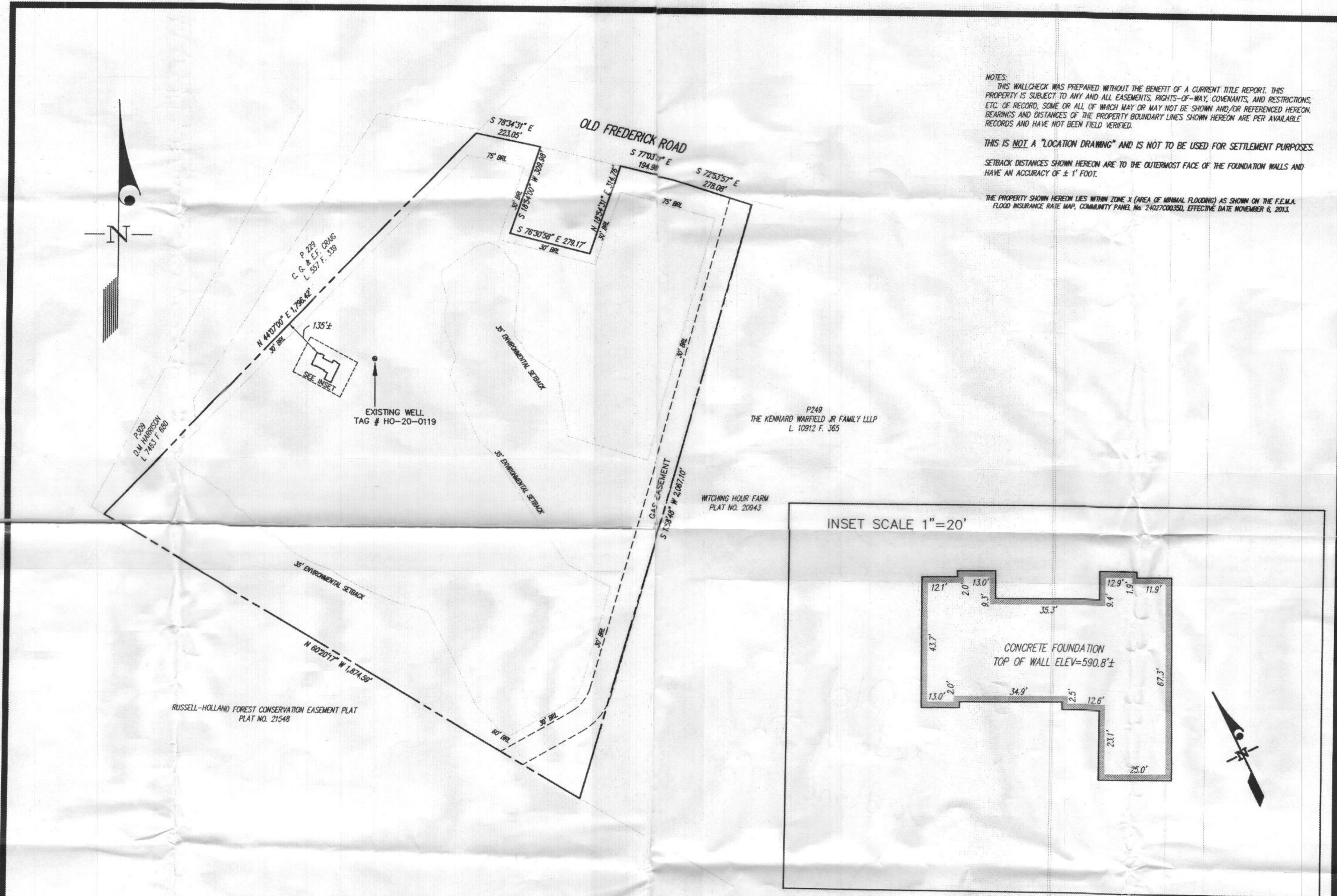
21.4'±



INSET SCALE 1"=40'



NOTES:
 THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS-OF-WAY, 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.
 SETBACK DISTANCES SHOWN HEREON ARE TO THE OUTERMOST FACE OF THE FOUNDATION WALLS AND HAVE AN ACCURACY OF ± 1' FOOT.
 THE PROPERTY SHOWN HEREON LIES WITHIN ZONE X (AREA OF MINIMAL FLOODING) AS SHOWN ON THE F.E.M.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL No. 24027000350, EFFECTIVE DATE NOVEMBER 6, 2013.



GLW
 PLANNING | ENGINEERING | SURVEYING
 3608 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM
 PHONE: 301-421-4024 | BAL: 410-883-1820 | DCRAV: 301-888-2524 | FAX: 301-421-4188

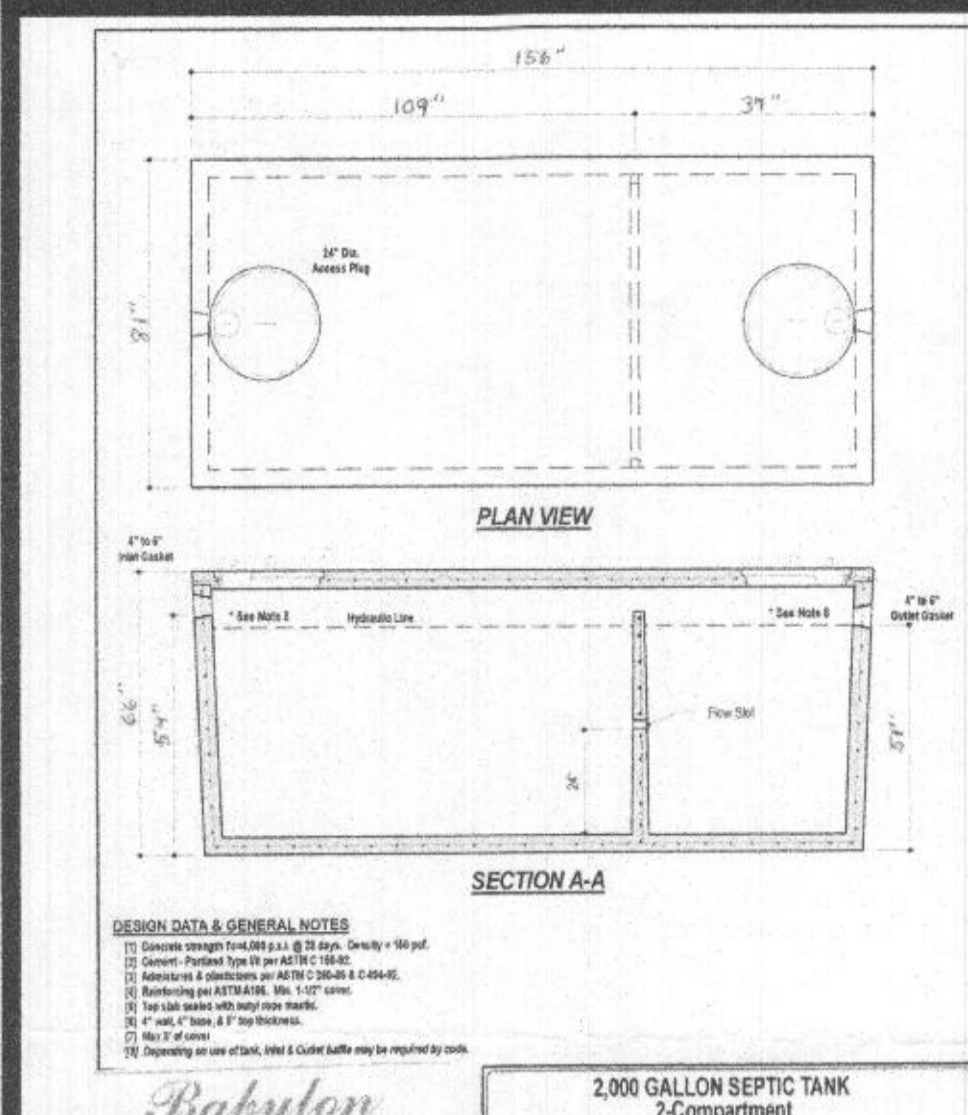
DES.	PREPARED FOR:
DRN.	BRIAN WYNNE
MCK	2065 HIGHWAY A1A
CHK.	UNIT 1201
	INDIAN HARBOR
	BEACH, FL 32937

SURVEYOR'S CERTIFICATE
 THIS IS TO CERTIFY TO:
 WYNNE FAMILY, LLC
 THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE POSITION OF THE ABOVE REFERENCED BUILDING FOUNDATION HAS BEEN ESTABLISHED BY ACCEPTED FIELD PRACTICES.
 [Signature] 11/30/2021
 For Gutschick, Little and Weber, P.A.:
 Thomas C. O'Connor, Jr., Professional Land Surveyor,
 No. 10854 (EXP. DATE: 07/03/2022)

WALLCHECK
 (SPECIAL PURPOSE SURVEY)
PROPERTY OF WYNNE FAMILY, LLC
 15685 OLD FREDERICK ROAD
 WOODBINE, MARYLAND 21797
 REFERENCE: L 20327 F.137

GLW FILE No.:	21-020
DATE:	11/23/2021
SCALE:	1"=200'
SHEET:	1 OF 1

S:\Survey Drawings\WALLCHECK\WYNNE PROPERTY-2102021\000\CK.dwg, 11/23/2021 9:08:19 AM, 118, 11



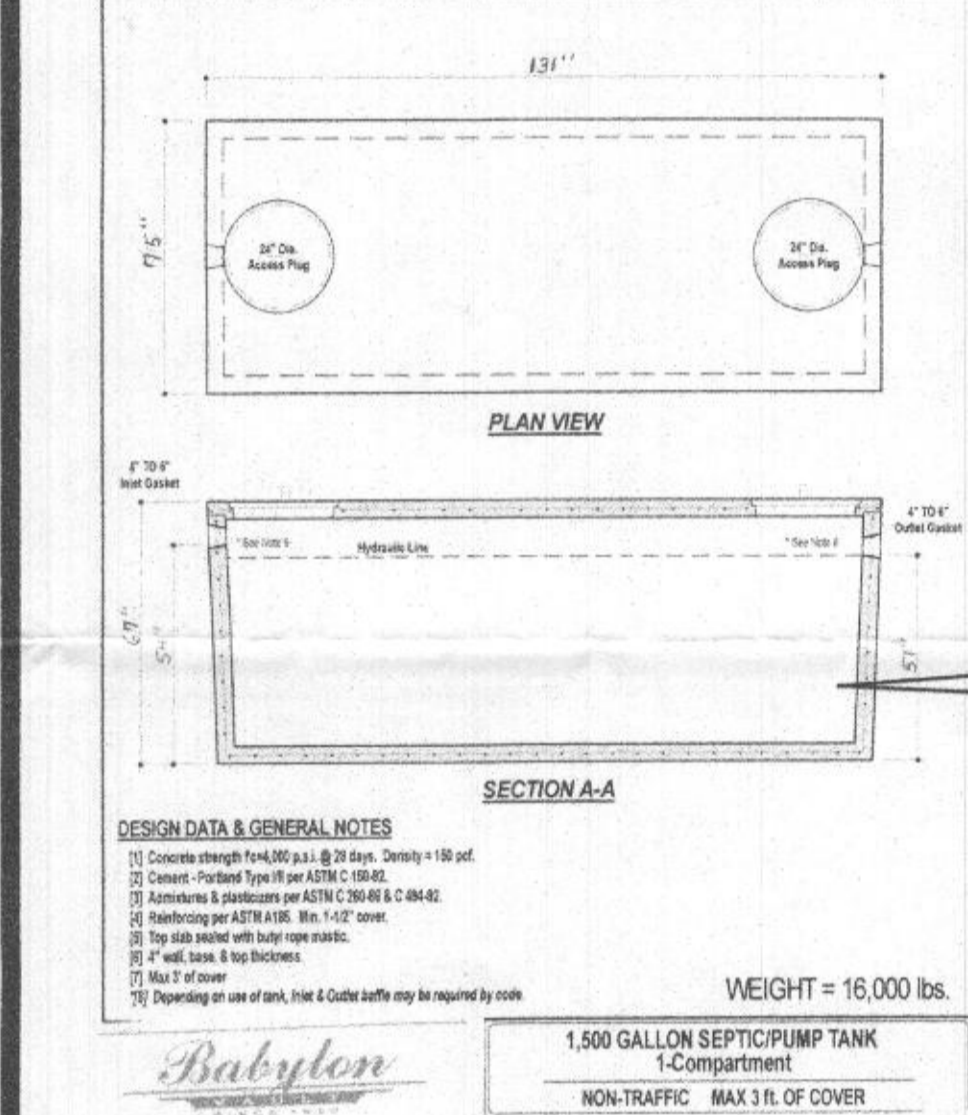
GENERAL DATA & GENERAL NOTES

- Check strength of soil at 2 ft depth. Density = 100 pcf.
- Concrete shall be 3000 psi (min) with 4% steel reinforcement.
- Minimum cover shall be 18 inches above the top of the tank.
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2,000 GALLON SEPTIC TANK
2-Compartment
Stock Item (Approx. 19,900 lbs)

SEPTIC TANK CONSTRUCTION AND INSTALLATION NOTES:

- TANK TO BE ASTM C1227-20 AND HOWARD COUNTY CODE COMPLIANT AND INCLUDE A PROPERLY POSITIONED INLET & OUTLET EXTENDING INTO THE TANK AIR SPACE AT LEAST 4-INCHES ABOVE THE LEVEL, BUT AT LEAST 1-INCH BELOW THE TOP, CONSTRUCTED OF NOT LESS THAN SCHEDULE 40 P.V.C. CONCRETE SHALL NOT BE LESS THAN 4-INCHES THICK.
- PROVIDE ADDITIONAL CONTIGUOUS AS MANDATED BY HOWARD COUNTY, MD.
- SET THE TANKS ON A 6-INCH MINIMUM LEVELING BED OF ASHSTO #57 AGGREGATE ON A FIRM SUBGRADE. THE ACCESS COVERS TO BE CHILD PROOF HEAVY DUTY COVERS WITH INTERNAL SAFETY NET OR CATCH AS MANUFACTURED BY S.W. TECH OR TUF-TITE. TANK AND RISERS TO BE WATER TIGHT AND PASS MANUFACTURER'S WATER-TIGHTNESS TEST (VACUUM 2-INCHES HG FOR 60 MIN, 5 PSIG WATER FOR 60 MINUTES, 5 PSIG AIR FOR 15 MINUTES) OR MORE STRINGENT AS REQUIRED. THE LIDS ARE TO BE GAS TIGHT AND TO EXTEND NOT MORE THAN 4-INCHES ABOVE FINISHED GROUND.



DESIGN DATA & GENERAL NOTES

- Check strength of soil at 2 ft depth. Density = 100 pcf.
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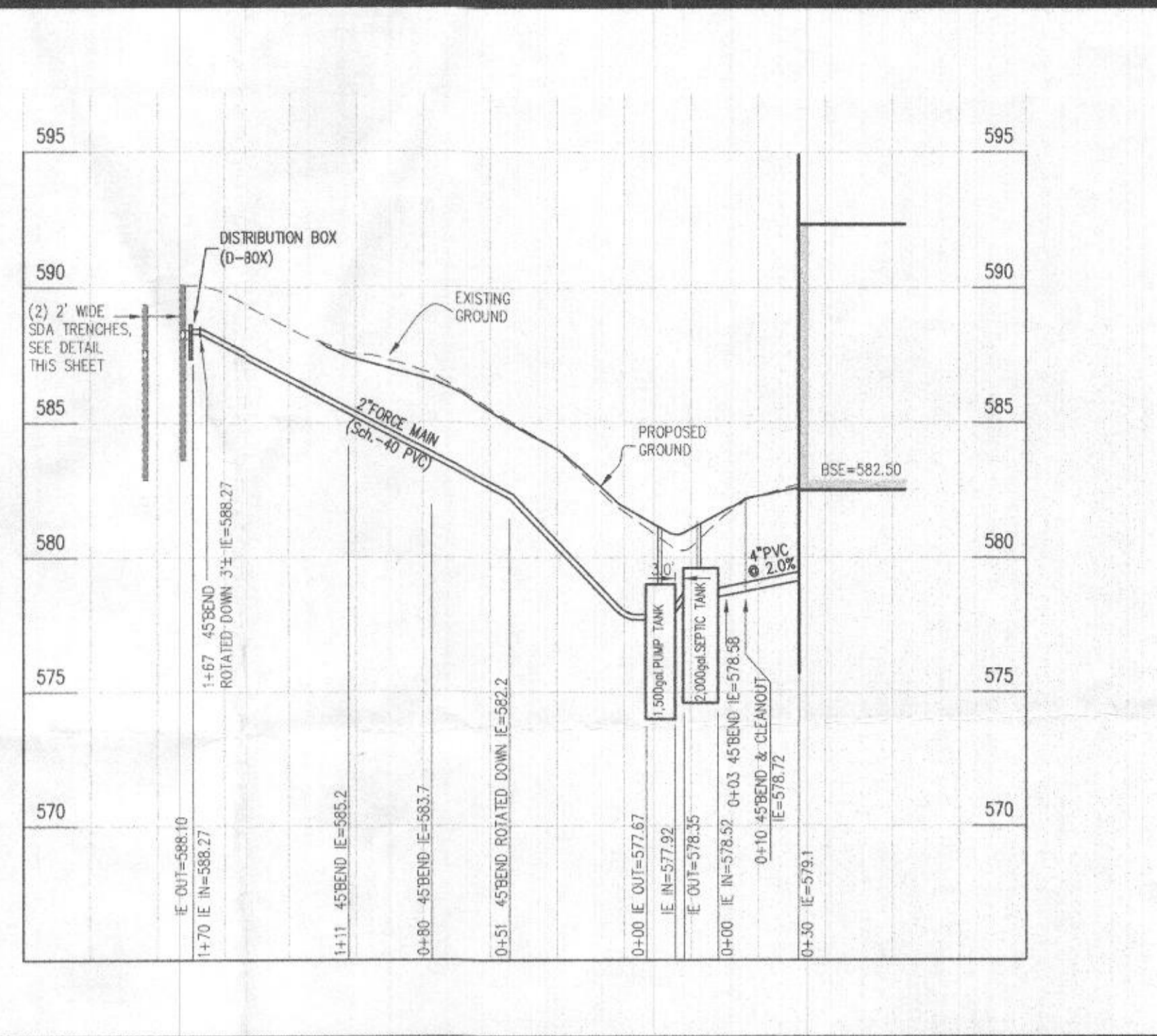
1,500 GALLON SEPTIC PUMP TANK
1-Compartment
NON-Traffic MAX 3 FT. OF COVER

Rectangular Tripartite Pump Chamber Volume Calculations	Wynne Youth	1500 Gal. Tank
Height (inside dimension) from bottom of chamber to top cover/invert	38.00 in.	
W: Top Width (inside dimension)	67.00 in.	
L: Top Length (inside dimension)	123.00 in.	
w: Bottom Width (inside dimension)	62.00 in.	
l: Bottom Length (inside dimension)	118.00 in.	
Chamber Bottom Area (A x B)	7316.0 sq. in.	1932 gal.
Chamber volume to top cover/invert (Vol)	49593.0 cu. in.	
Height from bottom of chamber to inlet level (H)	50.0 in.	
Chamber width at inlet level (C)	68.33 in.	
Chamber length at inlet level (D)	122.31 in.	
Chamber Sectional Area at inlet level (C x D)	8358.4 sq. in.	
Chamber Volume at inlet level (V)	41855.6 cu. in.	1048 gal.
Float Switch Setting Parameters & Volume Calculations		
Design Flow per day (max. reserved capacity to set alarm level)	6.40 gpd at 150.0 gal./day	
Design Frequency per day & volume per day		
Water level (W) to switch on alarm	32.00 in.	
Chamber width at alarm level (C _a)	64.76 in.	
Chamber length at alarm level (D _a)	120.76 in.	
Chamber Sectional Area at alarm level (C _a x D _a)	7820.2 sq. in.	
Water volume at alarm level (V _a)	24213.8 cu. in.	1048 gal.
Reserved Capacity between alarm level and inlet level (to be utilized since the septic tank outlet invert is 4.3 inches higher than the pump tank inlet invert)	14358.6 cu. in.	357 gal.
Additional Capacity in the pump chamber above the inlet level to be utilized since the septic tank outlet invert is 4.3 inches higher than the pump tank inlet invert	40551 cu. in.	176 gal.
Total Reserved Capacity Available	18793.9 cu. in.	796 gal. (20%)
Alarm High Water Level (from bottom of pump chamber)	32.00 in.	
Pump on water level (from bottom of pump chamber)	28.00 in.	
Chamber width at this level (C ₁)	64.24 in.	
Chamber length at this level (D ₁)	120.24 in.	
Chamber Sectional Area at this level (C ₁ x D ₁)	7724.47 sq. in.	
Water volume (W ₁) to switch pump on	19550.6 cu. in.	496 gal.
Pump off water level (from bottom of pump chamber)	25.00 in.	
Chamber width at this level (C ₂)	63.00 in.	
Chamber length at this level (D ₂)	115.00 in.	
Chamber Sectional Area at this level (C ₂ x D ₂)	7666.50 sq. in.	
Water volume (W ₂) to switch pump off	16473.4 cu. in.	713 gal.
Volume between on off switches (W ₁ - W ₂) (C ₁ x D ₁ - C ₂ x D ₂) (W ₁ - W ₂) (C ₁ x D ₁ - C ₂ x D ₂)	30771 cu. in.	133 gal.
Back Check Valve Volume Setting (W ₁ - W ₂)	30771 cu. in.	133 gal.

Ground Elevation at D-Box	590.10
Effluent Pipe Invert Elevation (EPI) at D-Box	588.10
Pump Off Water Surface Elevation	575.58
Static Head	12.52
Pump Capacity (gpm)	4.0
Force Main Diameter (inches)	2.0
Velocity (ft/s)	4.09
Force Main Length (ft.)	172
Pipe Length Equivalent for Fittings (ft.)	26
Friction Loss in Force Main & Fittings	5.25
Total Dynamic Head (TDH)	17.77

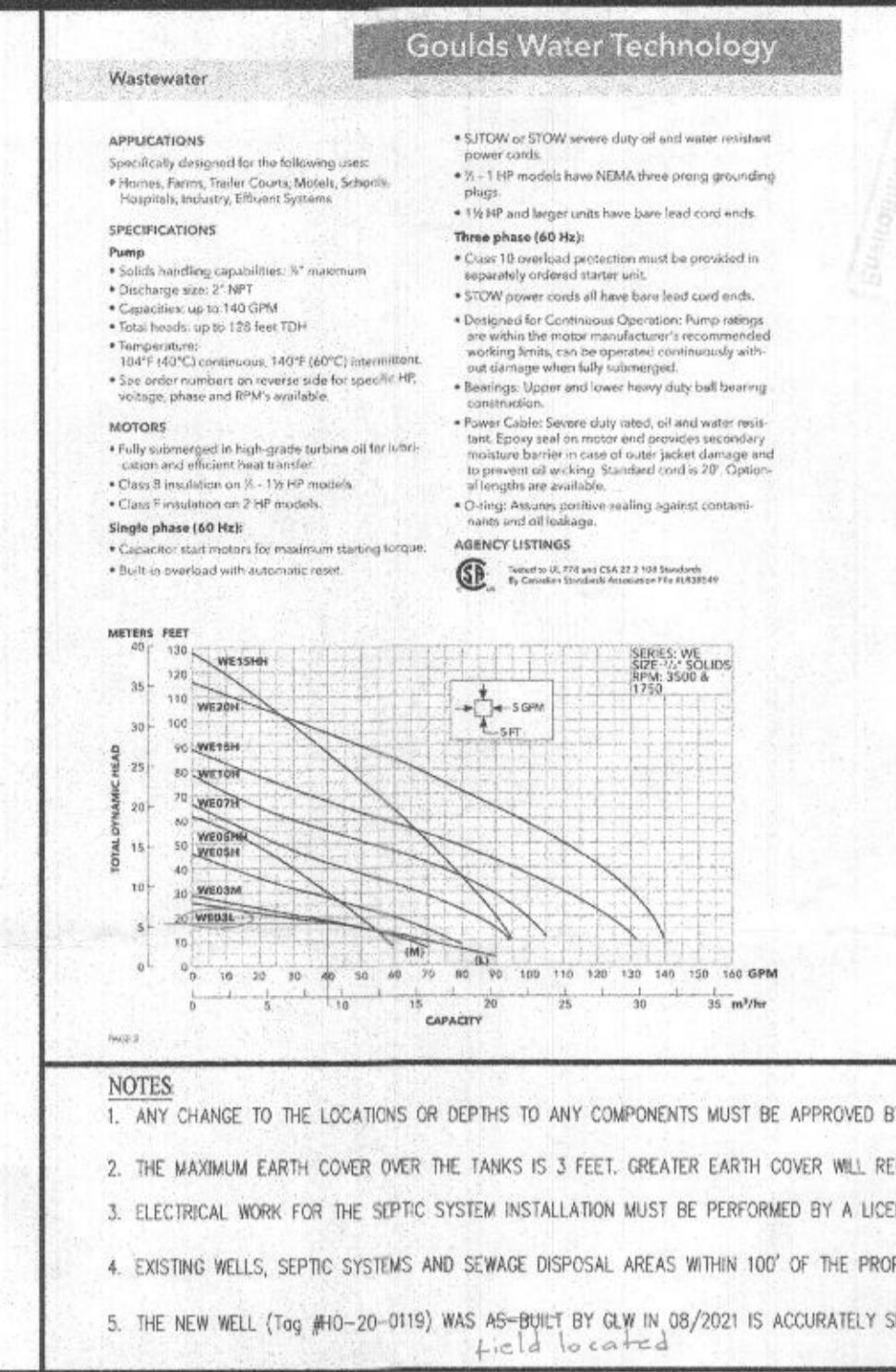
Wynne Residence (Main House) Pump Tank Elevations	
High finished grade above tank	581.40
Top of tank elevation	579.00
Delta (cover above tank, 3" max.)	2.40 ft.
Outside bottom of tank	573.42
Bottom of chamber elevation	573.75
Invert in	577.82
Invert out	577.87
Bottom of Pump (set on 6" blocks)	574.25
Bottom of chamber (floor) elevation	573.75
Top Seem (chamber ceiling) Elevation	578.58

Wynne Residence (Main House) Septic Tank Elevations	
High finished grade above tank	581.60
Top of tank elevation	579.60
Delta (cover above tank, 3" max.)	2.00 ft.
Outside bottom of BAT tank elevation	574.02
Invert in	578.52
Invert out	578.35



NOTES

- ANY CHANGE 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 ODS PLAN MAY BE REQUIRED.
- THE MAXIMUM EARTH COVER OVER THE TANKS IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ELECTRICAL WORK FOR THE SEPTIC SYSTEM INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPOSED IMPROVEMENTS AND THOSE 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- THE NEW WELL (Tag #10-20-0119) WAS AS-BUILT BY GLW IN 08/2021 IS ACCURATELY SHOWN ON THIS PLAN.



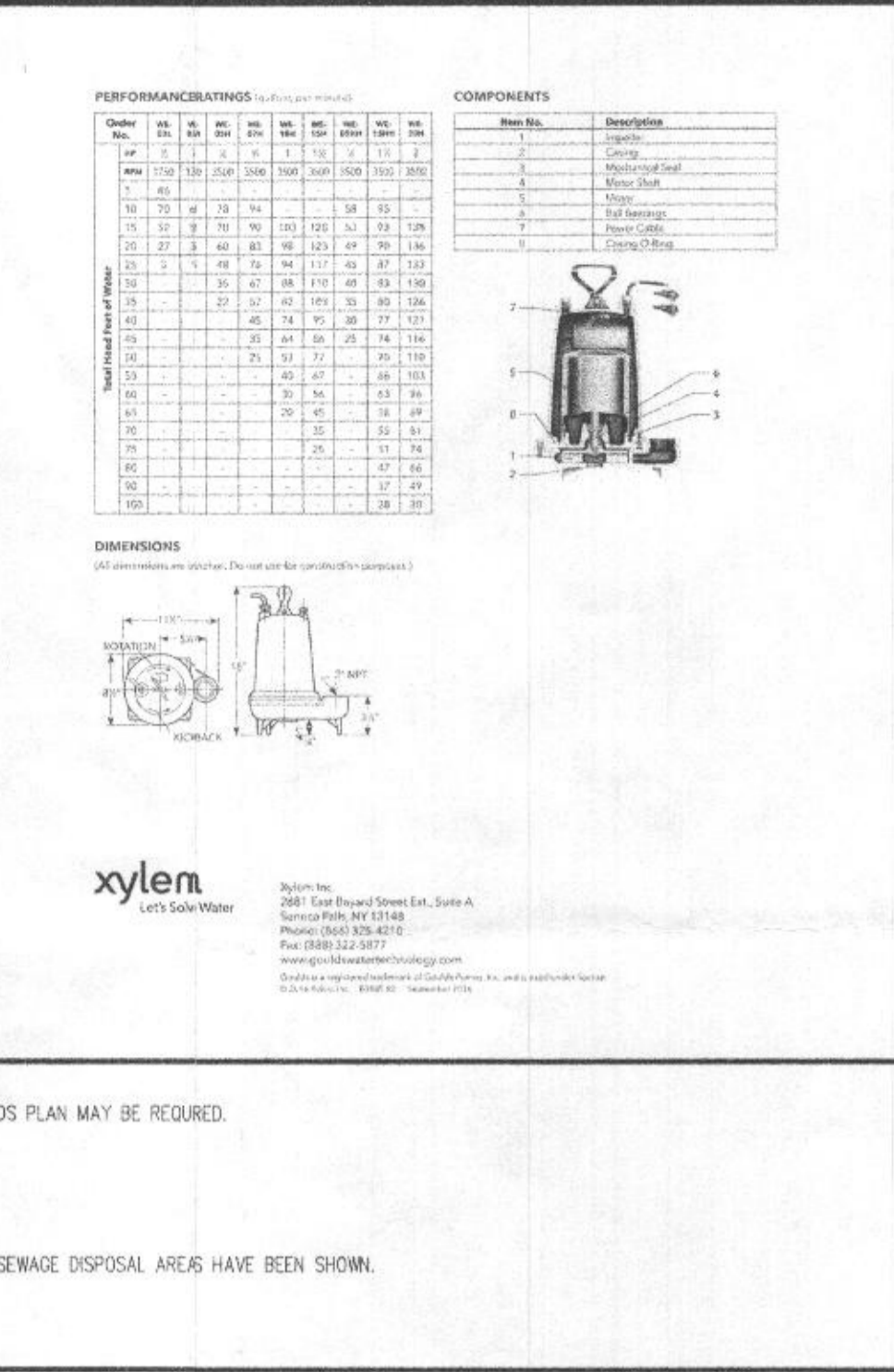
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Model	Flow Rate (GPM)	Head (feet)	Power (HP)
1000-100	100	10	0.5
1000-200	200	20	1.0
1000-300	300	30	1.5
1000-400	400	40	2.0
1000-500	500	50	2.5
1000-600	600	60	3.0
1000-700	700	70	3.5
1000-800	800	80	4.0
1000-900	900	90	4.5
1000-1000	1000	100	5.0

NOTES

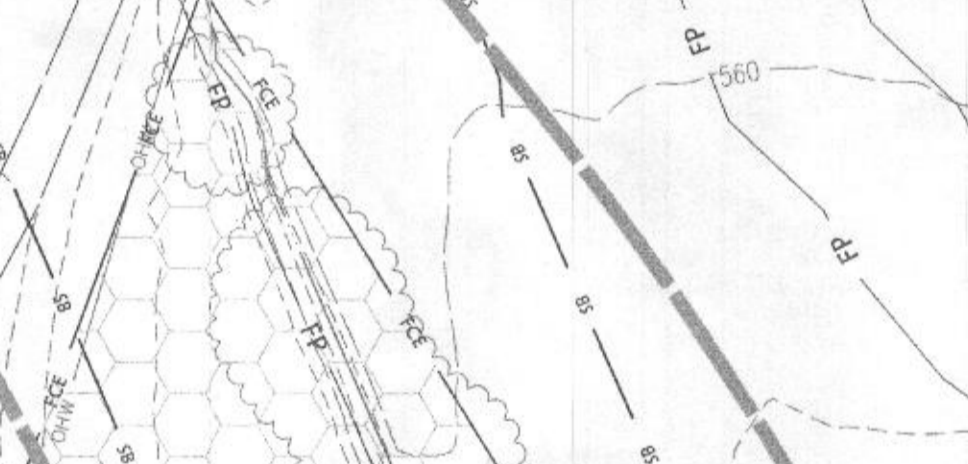
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VICINITY MAP
SCALE: 1" = 2,000'

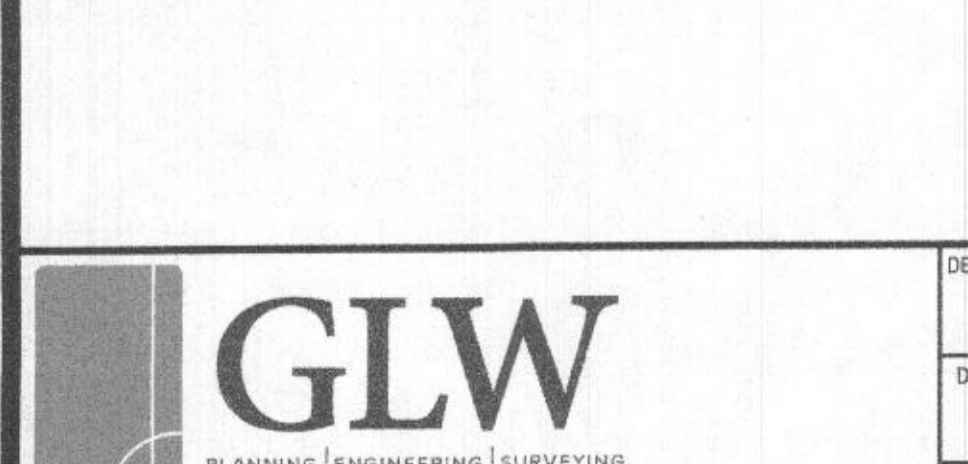
Legend	Description
---	EXISTING CONTOUR
- - - -	PROPOSED 2'-FT CONTOUR
FP	100 YEAR FLOODPLAIN
SB	STREAM BUFFER
WB	25' WETLAND BUFFER
---	EXISTING WETLANDS
---	EXISTING FOREST CONSERVATION EASMENT
---	WELL BOX LOCATION
---	PRIVATE SEWAGE DISPOSAL AREA
---	DRYWELL LOCATION
PT-1	PERCOLATION TEST PIT FAILED BY HEALTH DEPARTMENT
PT-4	PERCOLATION TEST PIT PASSED BY HEALTH DEPARTMENT

Wynne Property - Main House	15685 Old Frederick Rd.
Initial System No. 1	Replacement System No. 3
Application Rate	0.8
Effective area beginning depth	3
Effective area maximum bottom depth	8
Number of Bedrooms	4
Design flow at 150 gpd/bedroom	600
Absorption Trench Calculations	
Design flow/application rate	750
Drainfield area required	750
Effluent pipe depth to invert	2
Effective sidewall depth "D"	4
Depth between the effective beginning depth or pipe depth (whichever is deeper) and maximum trench bottom	3.5
Trench Width "W" (2 or 3 feet)	2
Side-slope Reduction Percent	40.00%
Linear feet of trench required	150
Approximate length available on contour & not exceeding 100-ft	90
Number of trenches to use	2
Total (linear feet)	150
Minimum Trench Spacing	10



Ground Elevation at Top of Trench	590.10
Effluent Pipe Invert Elevation	588.10
Bottom of Chamber Elevation	573.75
Bottom of Chamber (Floor) Elevation	573.75
Top Seem (Chamber Ceiling) Elevation	578.58

Rectangular Tripartite Pump Chamber Volume Calculations	Wynne Youth	1500 Gal. Tank
Height (inside dimension) from bottom of chamber to top cover/invert	38.00 in.	
W: Top Width (inside dimension)	67.00 in.	
L: Top Length (inside dimension)	123.00 in.	
w: Bottom Width (inside dimension)	62.00 in.	
l: Bottom Length (inside dimension)	118.00 in.	
Chamber Bottom Area (A x B)	7316.0 sq. in.	1932 gal.
Chamber volume to top cover/invert (Vol)	49593.0 cu. in.	
Height from bottom of chamber to inlet level (H)	50.0 in.	
Chamber width at inlet level (C)	68.33 in.	
Chamber length at inlet level (D)	122.31 in.	
Chamber Sectional Area at inlet level (C x D)	8358.4 sq. in.	
Chamber Volume at inlet level (V)	41855.6 cu. in.	1048 gal.
Float Switch Setting Parameters & Volume Calculations		
Design Flow per day (max. reserved capacity to set alarm level)	6.40 gpd at 150.0 gal./day	
Design Frequency per day & volume per day		
Water level (W) to switch on alarm	32.00 in.	
Chamber width at alarm level (C _a)	64.76 in.	
Chamber length at alarm level (D _a)	120.76 in.	
Chamber Sectional Area at alarm level (C _a x D _a)	7820.2 sq. in.	
Water volume at alarm level (V _a)	24213.8 cu. in.	1048 gal.
Reserved Capacity between alarm level and inlet level (to be utilized since the septic tank outlet invert is 4.3 inches higher than the pump tank inlet invert)	14358.6 cu. in.	357 gal.
Additional Capacity in the pump chamber above the inlet level to be utilized since the septic tank outlet invert is 4.3 inches higher than the pump tank inlet invert	40551 cu. in.	176 gal.
Total Reserved Capacity Available	18793.9 cu. in.	796 gal. (20%)
Alarm High Water Level (from bottom of pump chamber)	32.00 in.	
Pump on water level (from bottom of pump chamber)	28.00 in.	
Chamber width at this level (C ₁)	64.24 in.	
Chamber length at this level (D ₁)	120.24 in.	
Chamber Sectional Area at this level (C ₁ x D ₁)	7724.47 sq. in.	
Water volume (W ₁) to switch pump on	19550.6 cu. in.	496 gal.
Pump off water level (from bottom of pump chamber)	25.00 in.	
Chamber width at this level (C ₂)	63.00 in.	
Chamber length at this level (D ₂)	115.00 in.	
Chamber Sectional Area at this level (C ₂ x D ₂)	7666.50 sq. in.	
Water volume (W ₂) to switch pump off	16473.4 cu. in.	713 gal.
Volume between on off switches (W ₁ - W ₂) (C ₁ x D ₁ - C ₂ x D ₂) (W ₁ - W ₂) (C ₁ x D ₁ - C ₂ x D ₂)	30771 cu. in.	133 gal.
Back Check Valve Volume Setting (W ₁ - W ₂)	30771 cu. in.	133 gal.



DESIGNED BY: mbt
DRAWN BY: klp
CHECKED BY: ckg

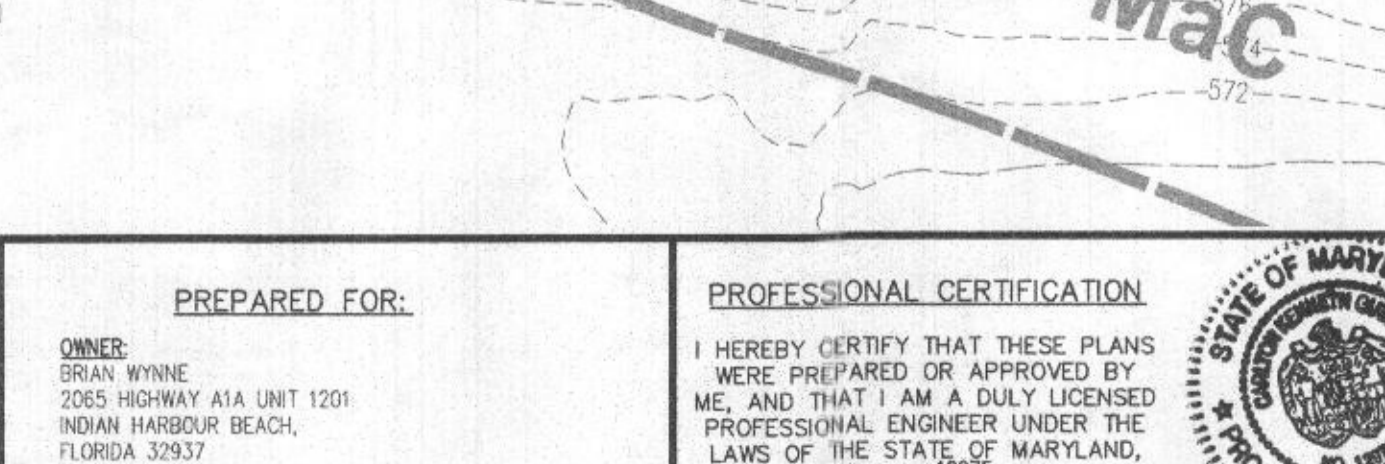
DATE: Oct/2021

REVISION: House shifted uphill. Revised location of tanks, force main alignment and profile accordingly.

PREPARED FOR: WYNNE PROPERTY
2065 HIGHWAY 41A UNIT 1201
INDIAN HARBOUR BEACH, FLORIDA 32937
wynnebrn5@gmail.com

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16720. EXPIRATION DATE: MAY 26, 2022.

GLW
PLANNING | ENGINEERING | SURVEYING
3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM
PHONE: 301-421-4524 | BALT.: 410-880-1020 | DC&VA: 301-988-2524 | FAX: 301-421-4108



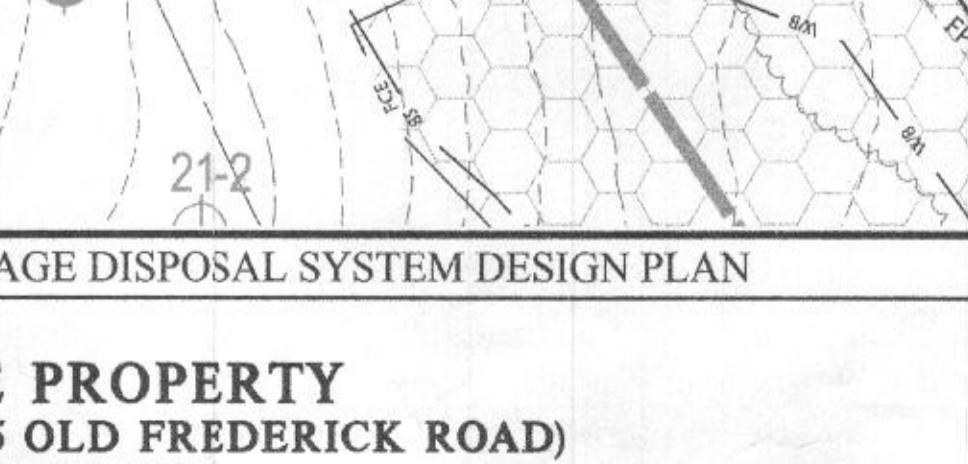
NOTES

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- THE MAXIMUM EARTH COVER OVER THE TANKS IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ELECTRICAL WORK FOR THE SEPTIC SYSTEM INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPOSED IMPROVEMENTS AND THOSE 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- THE NEW WELL (Tag #10-20-0119) WAS AS-BUILT BY GLW IN 08/2021 IS ACCURATELY SHOWN ON THIS PLAN.

Model	Flow Rate (GPM)	Head (feet)	Power (HP)
1000-100	100	10	0.5
1000-200	200	20	1.0
1000-300	300	30	1.5
1000-400	400	40	2.0
1000-500	500	50	2.5
1000-600	600	60	3.0
1000-700	700	70	3.5
1000-800	800	80	4.0
1000-900	900	90	4.5
1000-1000	1000	100	5.0

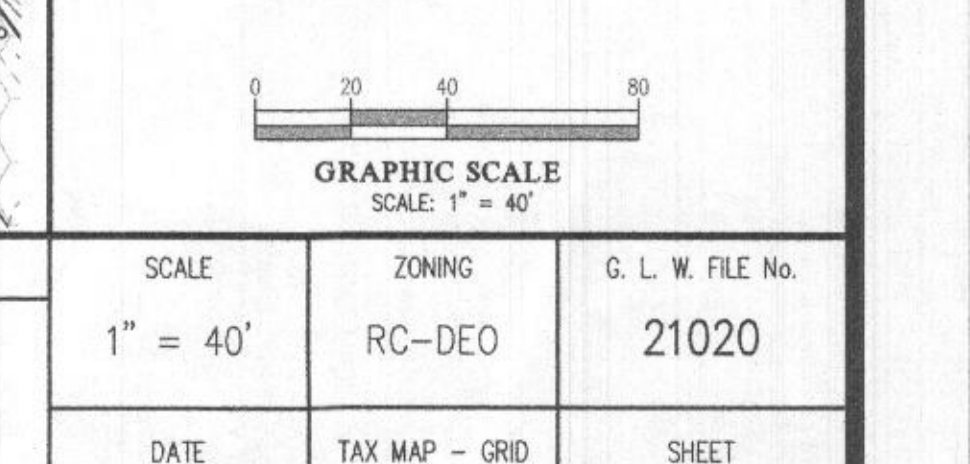
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- THE NEW WELL (Tag #10-20-0119) WAS AS-BUILT BY GLW IN 08/2021 IS ACCURATELY SHOWN ON THIS PLAN.



Legend	Description
---	EXISTING CONTOUR
- - - -	PROPOSED 2'-FT CONTOUR
FP	100 YEAR FLOODPLAIN
SB	STREAM BUFFER
WB	25' WETLAND BUFFER
---	EXISTING WETLANDS
---	EXISTING FOREST CONSERVATION EASMENT
---	WELL BOX LOCATION
---	PRIVATE SEWAGE DISPOSAL AREA
---	DRYWELL LOCATION
PT-1	PERCOLATION TEST PIT FAILED BY HEALTH DEPARTMENT
PT-4	PERCOLATION TEST PIT PASSED BY HEALTH DEPARTMENT

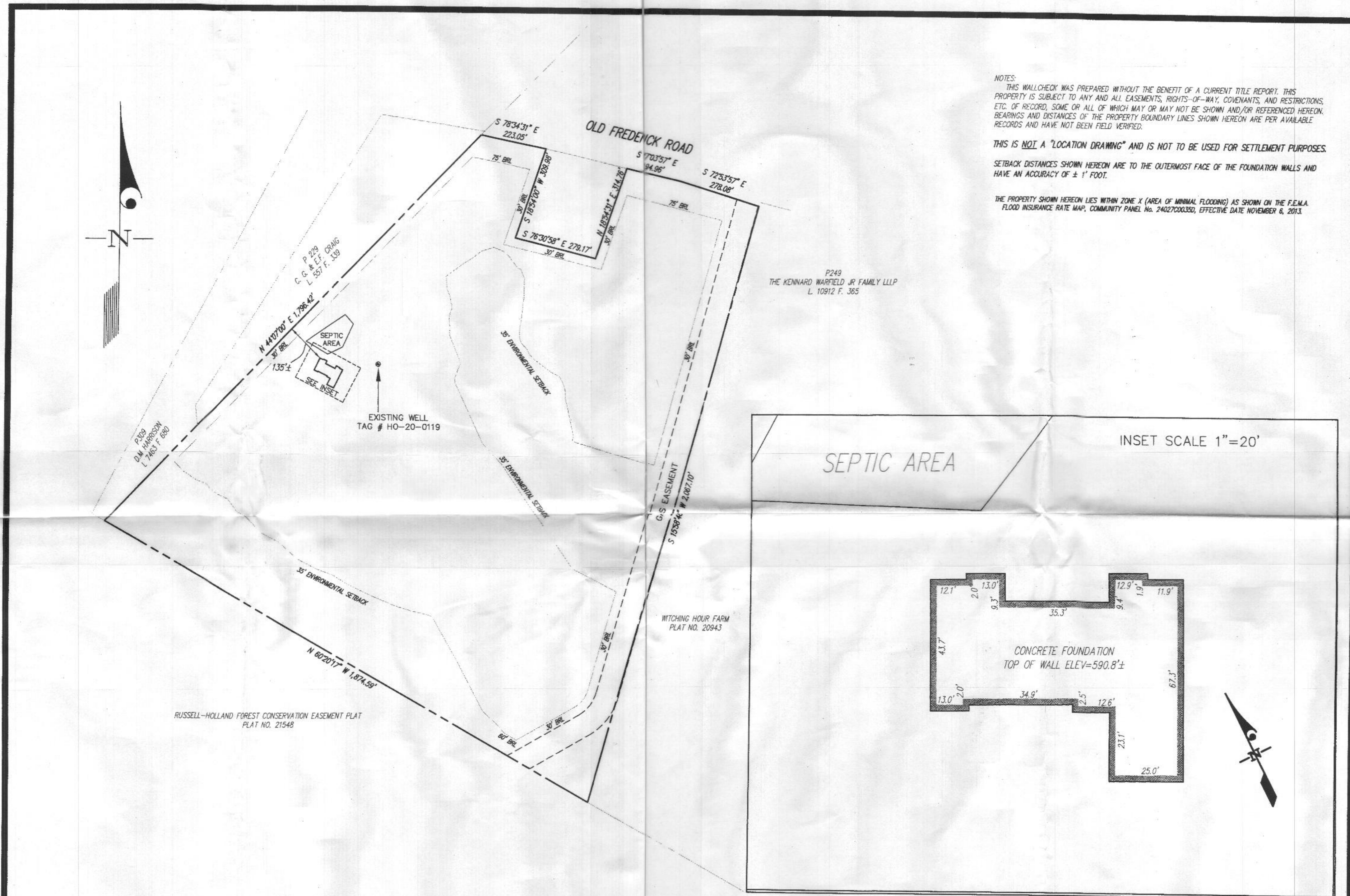
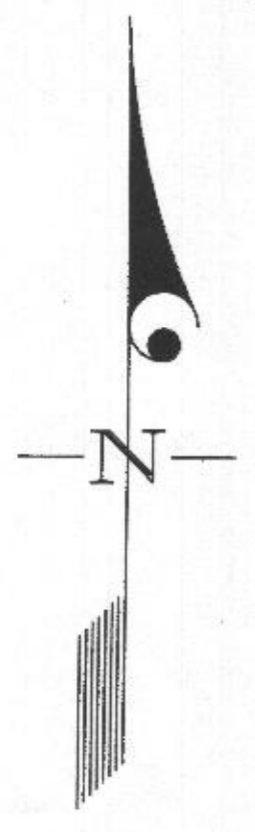
Wynne Property - Main House	15685 Old Frederick Rd.
Initial System No. 1	Replacement System No. 3
Application Rate	0.8
Effective area beginning depth	3
Effective area maximum bottom depth	8
Number of Bedrooms	4
Design flow at 150 gpd/bedroom	600
Absorption Trench Calculations	
Design flow/application rate	750
Drainfield area required	750
Effluent pipe depth to invert	2
Effective sidewall depth "D"	4
Depth between the effective beginning depth or pipe depth (whichever is deeper) and maximum trench bottom	3.5
Trench Width "W" (2 or 3 feet)	2
Side-slope Reduction Percent	40.00%
Linear feet of trench required	150
Approximate length available on contour & not exceeding 100-ft	90
Number of trenches to use	2
Total (linear feet)	150
Minimum Trench Spacing	10



Ground Elevation at Top of Trench	590.10
Effluent Pipe Invert Elevation	588.10
Bottom of Chamber Elevation	573.75
Bottom of Chamber (Floor) Elevation	573.75
Top Seem (Chamber Ceiling) Elevation	578.58

|--|

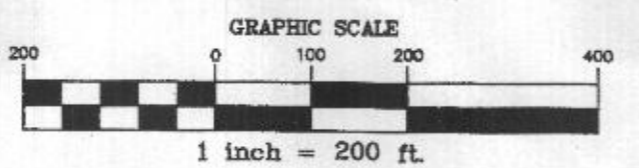
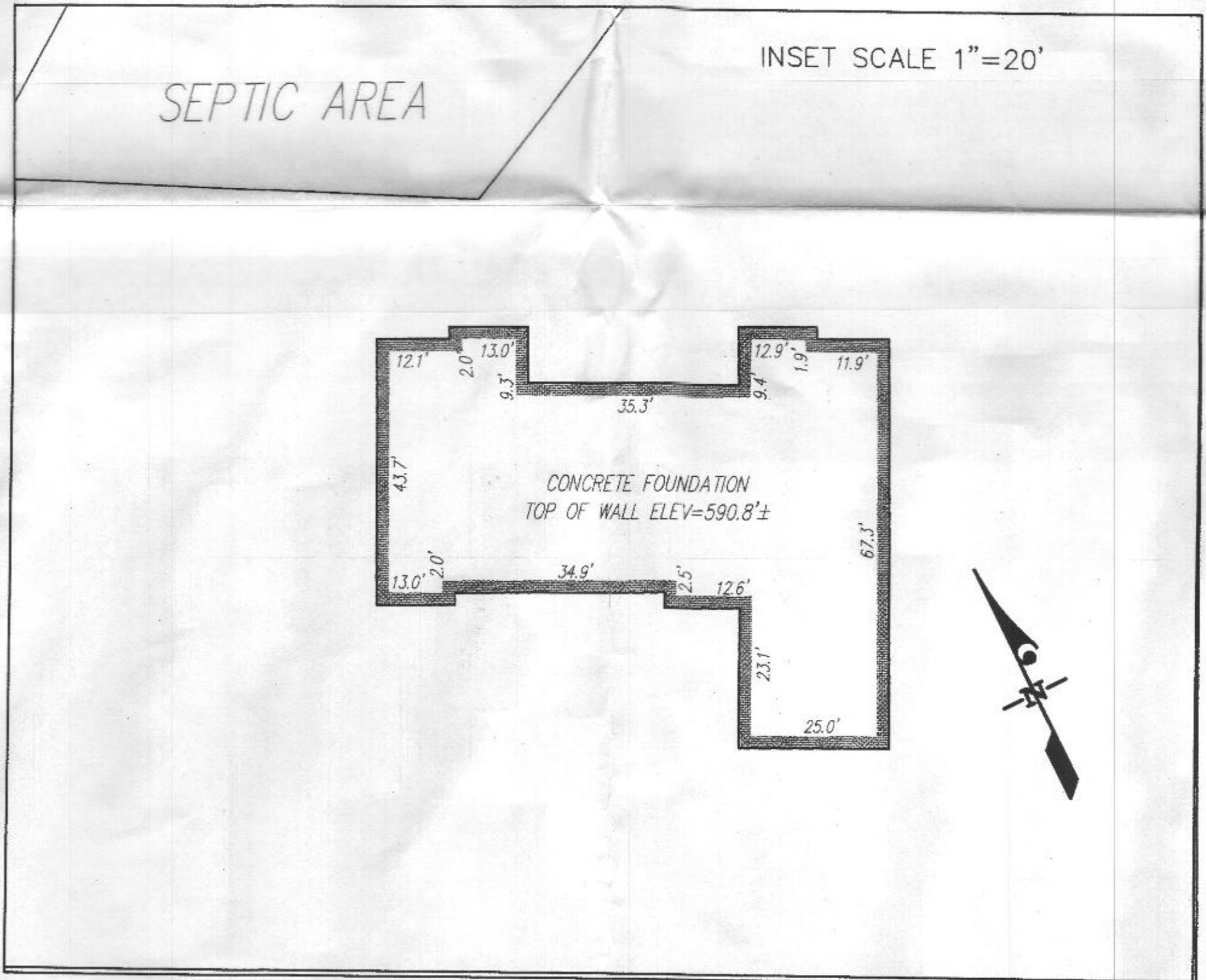
PROCESSED BY
MAY 11 2022
Environmental Health



NOTES:
THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS-OF-WAY, 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.
SETBACK DISTANCES SHOWN HEREON ARE TO THE OUTERMOST FACE OF THE FOUNDATION WALLS AND HAVE AN ACCURACY OF ± 1' FOOT.

THE PROPERTY SHOWN HEREON LIES WITHIN ZONE X (AREA OF MINIMAL FLOODING) AS SHOWN ON THE F.E.M.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL No. 24027200350, EFFECTIVE DATE NOVEMBER 6, 2013.



 3500 NATIONAL DRIVE SUITE 200 BURTONSVILLE, MD 20899 GLWPA.COM PHONE: 301-421-4024 FAX: 301-421-4026 TOLL FREE: 800-451-2254 FAC: 301-421-4136	DES.	PREPARED FOR :
	DRN.	BRIAN WYNNE
	WDK	2065 HIGHWAY A1A
	CHK.	UNIT 1201 INDIAN HARBOR BEACH, FL 32937

SURVEYOR'S CERTIFICATE
THIS IS TO CERTIFY TO:
"WYNNE FAMILY, LLC"
THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF,
THE POSITION OF THE ABOVE REFERENCED BUILDING FOUNDATION
HAS BEEN ESTABLISHED BY ACCURATE FIELD PRACTICES.

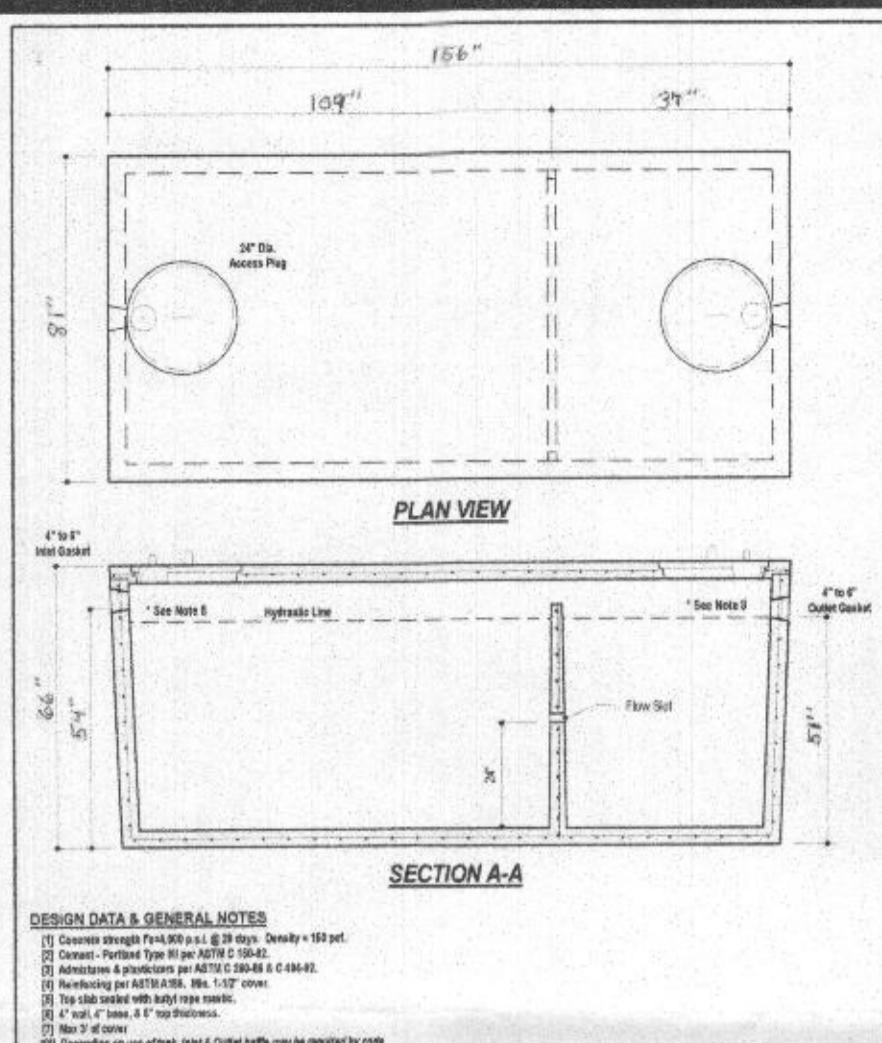
[Signature] 5/3/2022
For Outschick, Little and Weber, P.A. :
Thomas C. O'Connor, Jr., Professional Land Surveyor,
No. 10954 (EXP. DATE: 07/03/2022)

THIS WALLCHECK IS VALID ONLY WITH AN ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE SURVEYOR.

WALLCHECK
(SPECIAL PURPOSE SURVEY)
PROPERTY OF WYNNE FAMILY, LLC
15685 OLD FREDERICK ROAD
WOODBINE, MARYLAND 21797
REFERENCE: L.20327 F.137

G.L.W. FILE No.:
21-020
DATE:
11/23/2021
SCALE:
1"=200'
SHEET:
1 OF 1

S:\Survey Drawings\WALLCHECK\WYNNE PROPERTY\2102021\2021WCK.dwg, 5/3/2022 3:10:02 PM, 1/1

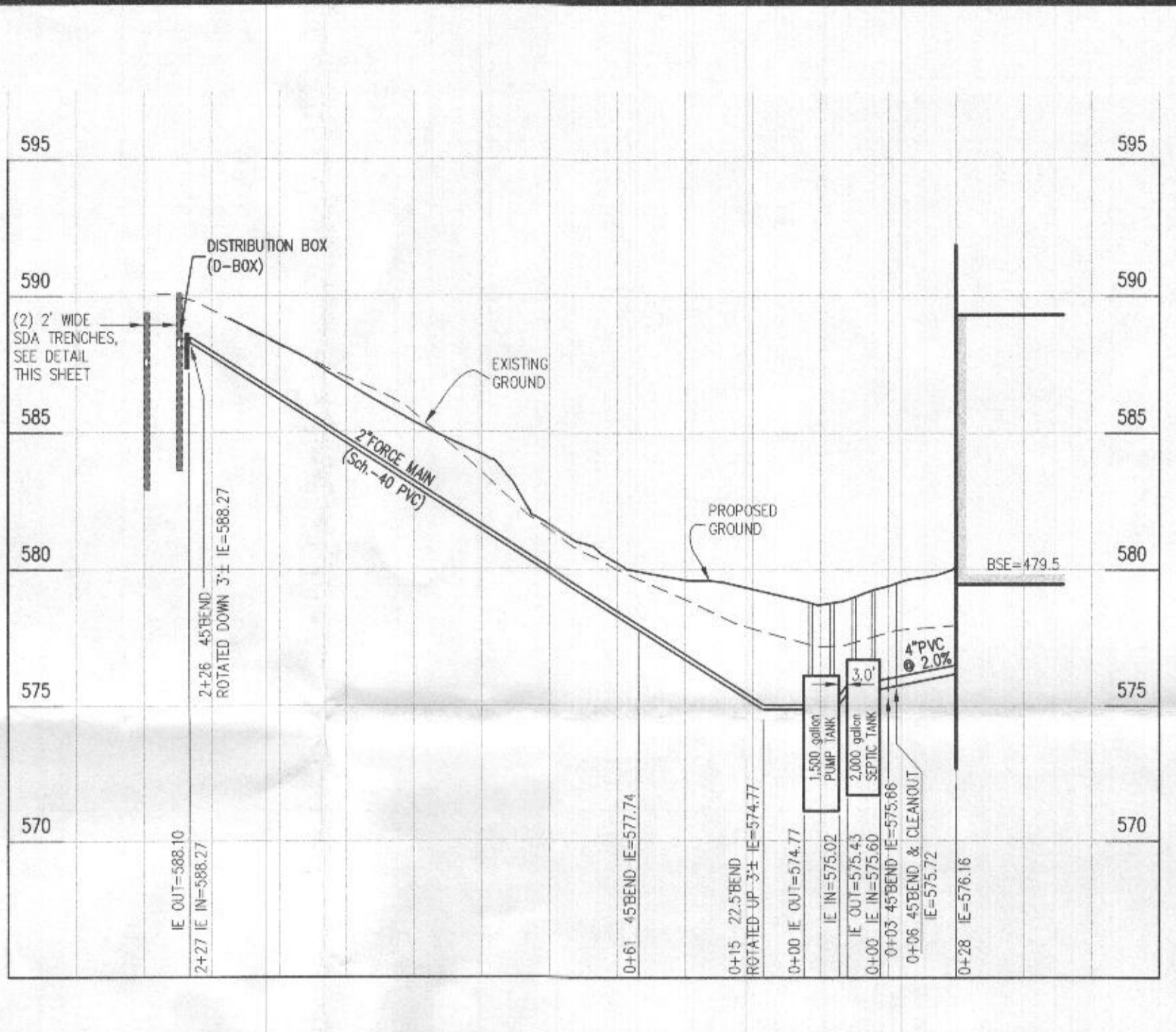


DESIGN DATA & GENERAL NOTES

- Concrete strength 4000 psi @ 28 days. Density = 150 pcf.
- Cover depth 18 inches @ 28 days.
- Minimum dimensions are 42" x 24" x 18".
- Manufactured by Babylon, Inc. 1-800-451-7474.
- 2' wide trench.
- 4' x 10' outlet.

SEPTIC TANK CONSTRUCTION AND INSTALLATION NOTES

- TANK TO BE ASTM C1277-20 AND HOWARD COUNTY CODE COMPLIANT AND INCLUDE A PROPERLY POSITIONED INLET TO DIRT/LEAK EXTENDED INTO THE TANK AIR SPACE AT LEAST 6-INCHES ABOVE THE LIQUID LEVEL, BUT AT LEAST 1-INCH BELOW THE TOP. CONSTRUCTED OF NOT LESS THAN SCHEDULE 40 P.V.C. CONCRETE SHALL NOT BE LESS THAN 4-INCHES THICK.
- PROMOTE ADDITIONAL COAGULATION AS MANDATED BY HOWARD COUNTY, MD.
- SET THE TANKS ON A 6-INCH MINIMUM LEVELING BED OF AASHTO #57 AGGREGATE ON A FIRM SUBGRADE. THE ACCESS COVERS TO BE CHILD PROOF HEAVY DUTY COVERS WITH INTERNAL SAFETY NET OR CATCH AS MANUFACTURED BY S.W. TANK OR TIF-TITE. TANK AND RISERS TO BE WATERIGHT AND PASS MANUFACTURERS WATER-TIGHTNESS TEST (VACUUM 2-INCHES HG FOR 60 MIN. 5 PSIG WATER FOR 60 MINUTES, 5 PSIG AIR FOR 15 MINUTES) OR MORE STRINGENT AS REQUIRED. THE LIDS ARE TO BE GAS TIGHT AND TO EXTEND NOT MORE THAN 4-INCHES ABOVE FINISHED GROUND.



Wastewater

APPLICATIONS

- Specifically designed for the following uses:
 - Hotels, Resorts, Towns, Camps, Schools, Hospitals, University, Retail, etc.

FEATURES

- 150' and longer in a three tank bed construction.
- 150' and longer in a three tank bed construction.

THREE PHASE (100 HP)

- Class 10 overhead protection must be provided in covering and/or storage.
- Design and build to meet all applicable codes and regulations.
- Design and build to meet all applicable codes and regulations.

AGENCY LISTINGS

NOTES

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- EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPOSED IMPROVEMENTS AND THOSE 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- THE NEW WELL (Tag #HO-20-019) WAS AS-BUILT BY GLW IN 08/2021 IS ACCURATELY SHOWN ON THIS PLAN.

Wastewater

PERFORMANCE RATINGS

Model	Flow (gpm)	Head (ft)	Efficiency (%)	Power (hp)
1000-100	100	10	85	1.5
1000-200	200	10	85	3.0
1000-300	300	10	85	4.5
1000-400	400	10	85	6.0
1000-500	500	10	85	7.5
1000-600	600	10	85	9.0
1000-700	700	10	85	10.5
1000-800	800	10	85	12.0
1000-900	900	10	85	13.5
1000-1000	1000	10	85	15.0

COMPONENTS

Item No.	Description
1	Motor
2	Impeller
3	Discharge Pipe
4	Check Valve
5	Control Panel
6	Wiring
7	Access Panel
8	Seal
9	Mounting Bracket
10	Wiring Harness

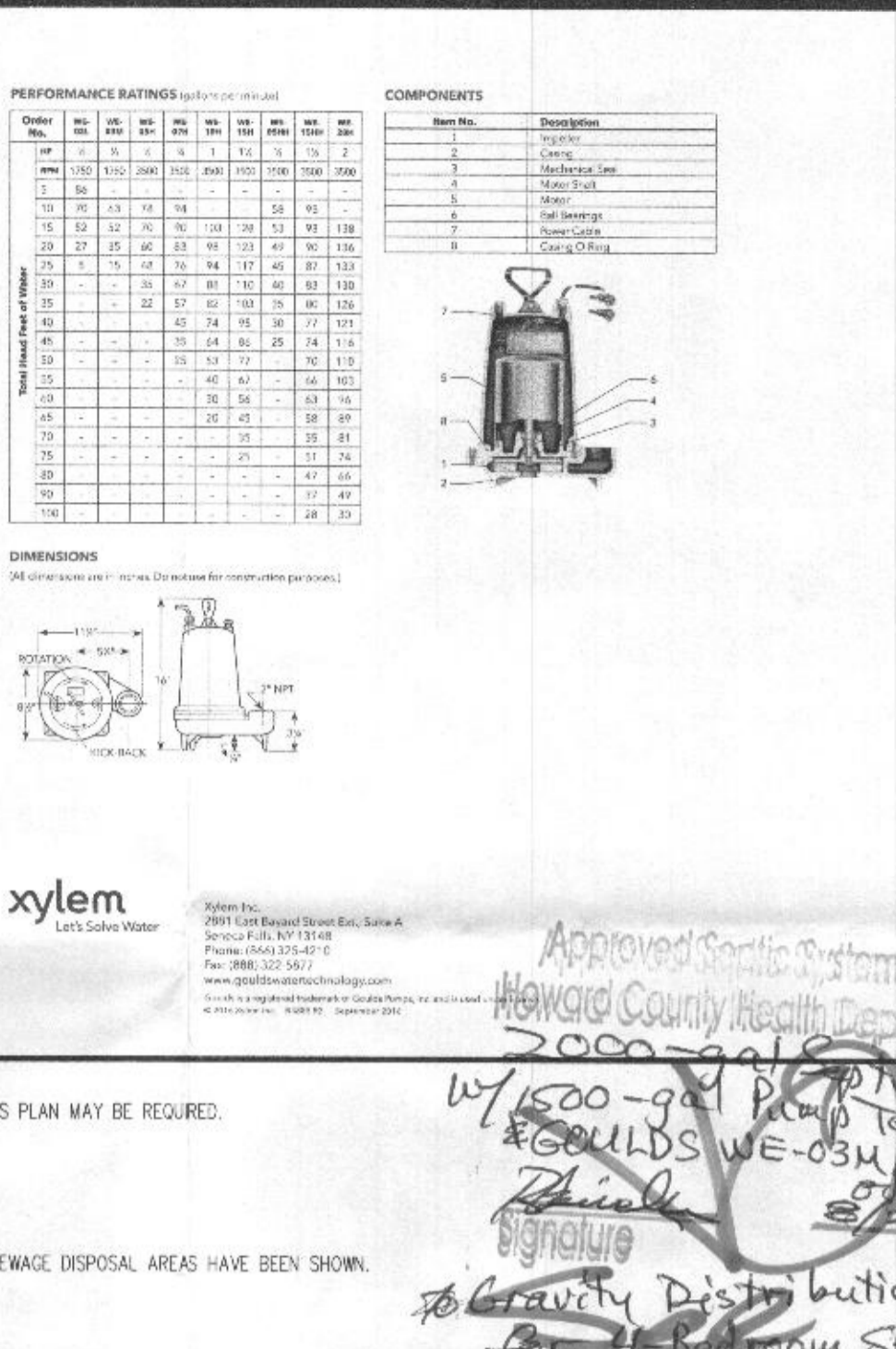
DIMENSIONS

WYNNE RESIDENCE PUMP TANK ELEVATIONS

Item	Elevation
High finished grade above tank	579.10
Top of tank elevation	576.10
Delta (cover above tank, 3' max.)	3.00 ft
Outside bottom of tank	570.52
Bottom of chamber elevation (tank floor)	570.52
Invert in	575.02
Invert out	574.77
Bottom of Pump (set on 6" block)	571.35
Bottom of chamber (floor) elevation	570.85
Top Seam (chamber ceiling) Elevation	575.68

WYNNE RESIDENCE SEPTIC TANK ELEVATIONS

Item	Elevation
High finished grade above tank	579.40
Top of tank elevation	576.68
Delta (cover above tank, 3' max.)	2.72 ft
Outside bottom of BAT tank elevation	571.10
Invert in	576.60
Invert out	576.43



VICINITY MAP

SCALE: 1" = 2000'

ADC MAP: 4
ORD: C4 & C5

LEGEND

- EXISTING CONTOUR
- PROPOSED 2-FT CONTOUR
- 100 YEAR FLOODPLAIN
- STREAM BUFFER
- 25' WETLAND BUFFER
- EXISTING WETLANDS
- EXISTING FOREST-CONSERVATION EASEMENT
- PROPOSED WELL BOX LOCATION
- PROPOSED PRIVATE SEWAGE DISPOSAL AREA
- PROPOSED DRYWELL LOCATION
- PERCOLATION TEST PIT FAILED BY HEALTH DEPARTMENT
- PERCOLATION TEST PIT PASSED BY HEALTH DEPARTMENT
- INITIAL SYSTEM 2" WIDE TRENCH
- FIRST REPLACEMENT SYSTEM 3" WIDE TRENCH
- SECOND REPLACEMENT SYSTEM 3" WIDE TRENCH

SDA TRENCH SIZE CALCULATIONS

System	Initial System	Replacement System No.1	Replacement System No.2
Application Rate	0.8	0.8	0.8
Effective area beginning depth	3	4.5	4.5
Effective area maximum bottom depth	4	6	6
Number of Bedrooms	4	4	4
Design flow @ 150 gal./day/bedroom	600	600	600

Absorption Trench Calculations

Parameter	Initial System	Replacement System No.1	Replacement System No.2
Drainfield area required (Design flow/application rate)	750	750	750
Effluent pipe depth to invert	2	2	2
Effective sidewall depth "D"	3.5	3.5	3.5
Depth between the effective beginning depth or pipe depth (whichever is deeper) and maximum trench bottom	3.5	3.5	3.5
Trench Width "W" (2 or 3 feet)	2	3	3
Side-slope Reduction Percent	40.00%	45.45%	45.45%
Linear feet of trench required	150	113.64	113.64

Trench Layout Information

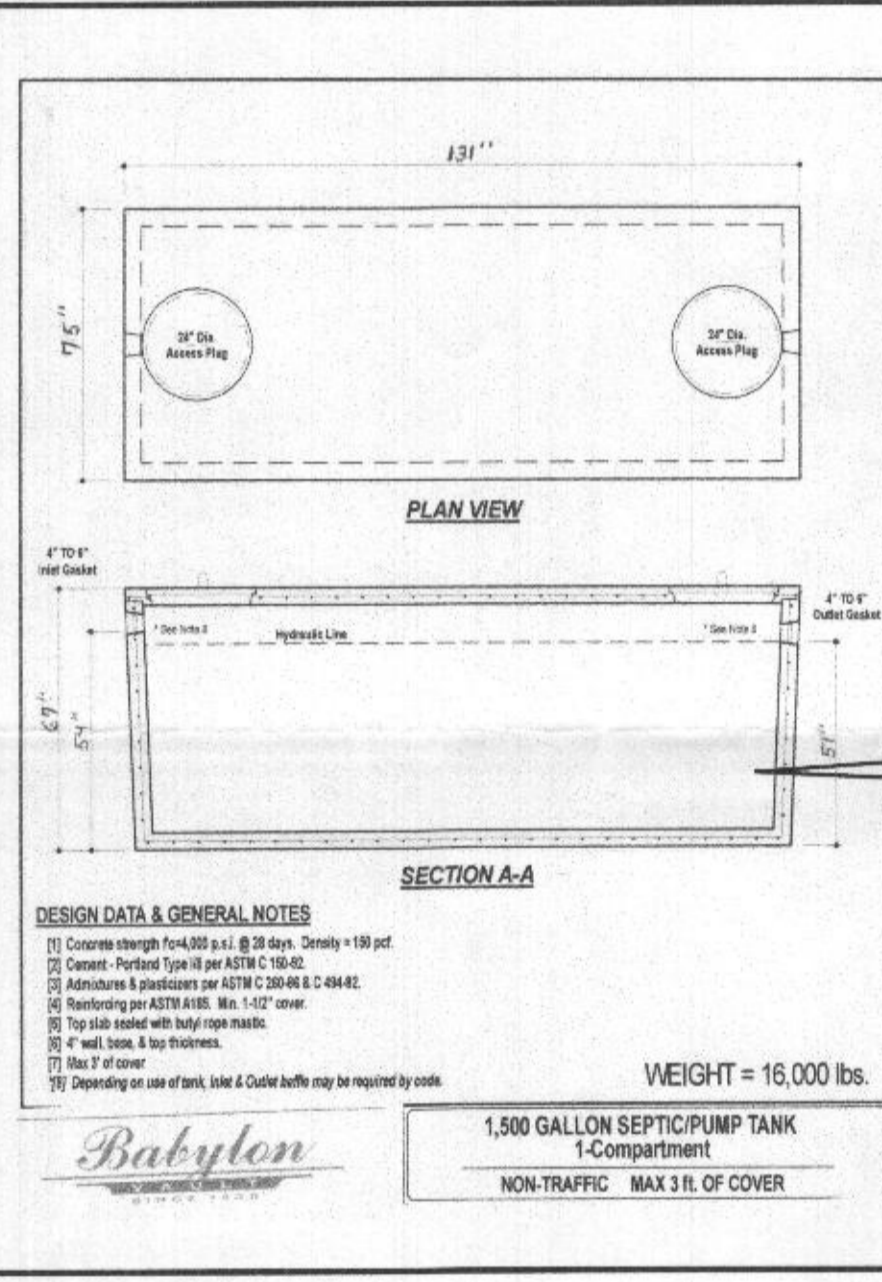
Parameter	90	100	100
Approximate length available on contour & not exceeding 100-ft	90	100	100
Number of trenches to use	2	2	2
Min. length (linear feet)	75	56.9	56.9
Total (linear feet)	150	113.8	113.8
Minimum Trench Spacing	10	10	10

SEPTIC TRENCH SECTION DETAIL

NO SCALE

GRAPHIC SCALE

SCALE: 1" = 40'



DESIGN DATA & GENERAL NOTES

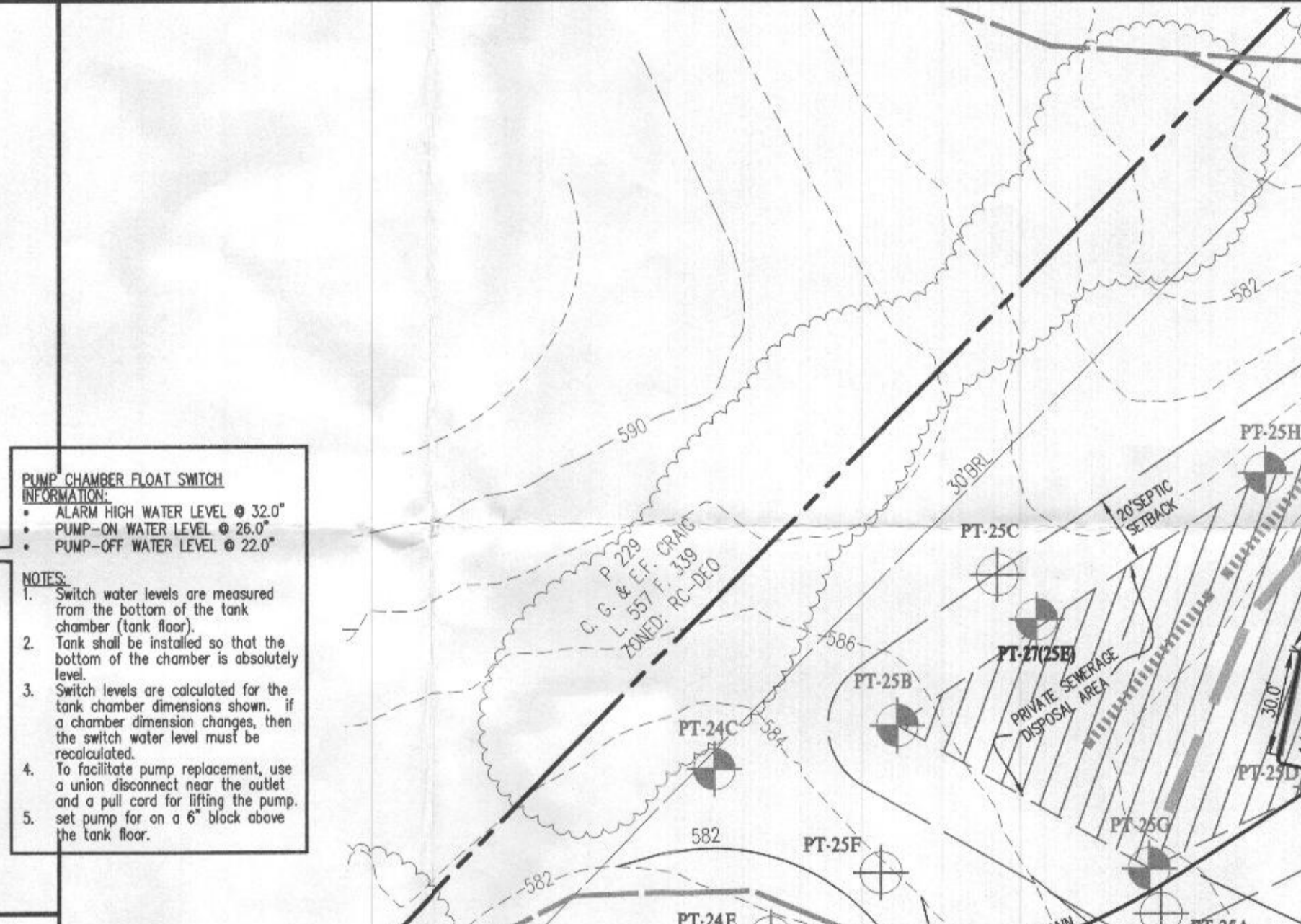
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- Cover depth 18 inches @ 28 days.
- Minimum dimensions are 42" x 24" x 18".
- Manufactured by Babylon, Inc. 1-800-451-7474.
- 2' wide trench.
- 4' x 10' outlet.

WEIGHT = 16,000 lbs.

1,500 GALLON SEPTIC PUMP TANK

1-Compartment

NON-TRAFFIC MAX 3 FT. OF COVER



Rectangular Trapezoidal Pump Chamber Volume Calculations

Parameter	Value
In height (inside dimension)	58.00 in.
Wt. Top Width (inside dimension)	47.00 in.
L. Top Length (inside dimension)	123.00 in.
Wt. Bottom Width (inside dimension)	42.00 in.
L. Bottom Length (inside dimension)	118.00 in.
Chamber Bottom Area (A x B)	7315.0 sq. in.
Chamber Volume at inlet level (V1)	405831 cu. in.
Height from bottom of chamber to inlet level (H1)	50.0 in.
Chamber width at inlet level (C1)	46.41 in.
Chamber length at inlet level (D1)	122.33 in.
Chamber Sectional Area at inlet level (C1 x D1)	8115.4 sq. in.
Chamber Volume at inlet level (V1)	85506 cu. in.

Hourly Switch Setting Parameters & Volume Calculations

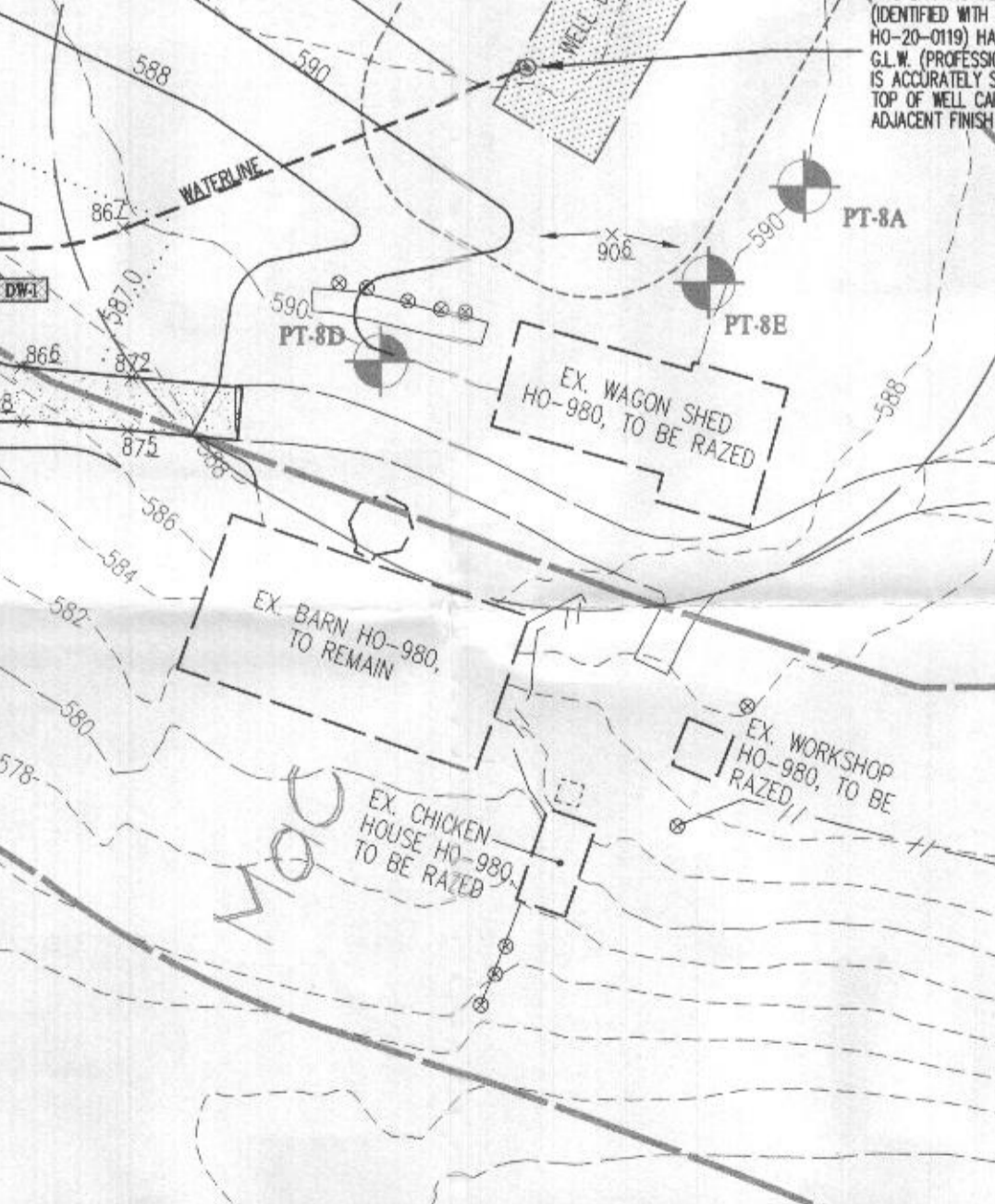
Parameter	Value
Design flow per day (from reserved capacity to alarm level)	6000 gal.
Design frequency per day @ volume per dose	6 doses @ 1000 gal./dose
Water level (W1) to switch on alarm	32.00 in.
Chamber width at alarm level (C1)	44.76 in.
Chamber length at alarm level (D1)	130.76 in.
Chamber Sectional Area at alarm level (C1 x D1)	7832.2 sq. in.
Water volume at alarm level (V1)	242336 cu. in.
Reserved Capacity between alarm level and inlet level (V1-V2)	143568 cu. in.
Additional capacity in the pump chamber above the inlet level to be used last when the night tank inlet level is 4.8" inches higher than the pump tank inlet level	40551 cu. in.
The additional capacity provided above the pump tank inlet level is:	179 gal.
Total Reserved capacity available	183919 cu. in.
Alarm High Water Level (from bottom of pump chamber)	32.00 in.
Pump on water level (W2, from bottom of pump chamber)	76.00 in.
Chamber width at this level (C2)	64.24 in.
Chamber length at this level (D2)	120.24 in.
Chamber Sectional Area at this level (C2 x D2)	7724.7 sq. in.
Water volume (V2) to switch pump on	95504 cu. in.
Pump off water level (W3, from bottom of pump chamber)	23.00 in.
Chamber width at this level (C3)	43.90 in.
Chamber length at this level (D3)	115.90 in.
Chamber Sectional Area at this level (C3 x D3)	7660.9 sq. in.
Water volume (V3) to switch pump on	58774 cu. in.
Volume between on/off water level (V3-V4) (PVC/Duct/Con/Pipe/Duct/Con)	30771 cu. in.
Back Check closing volume switch setting (V4-V3)	133 gal.

Wynne Residence Pump Tank Elevations

Item	Elevation
High finished grade above tank	579.10
Top of tank elevation	576.10
Delta (cover above tank, 3' max.)	3.00 ft
Outside bottom of tank	570.52
Bottom of chamber elevation (tank floor)	570.52
Invert in	575.02
Invert out	574.77
Bottom of Pump (set on 6" block)	571.35
Bottom of chamber (floor) elevation	570.85
Top Seam (chamber ceiling) Elevation	575.68

Wynne Residence Septic Tank Elevations

Item	Elevation
High finished grade above tank	579.40
Top of tank elevation	576.68
Delta (cover above tank, 3' max.)	2.72 ft
Outside bottom of BAT tank elevation	571.10
Invert in	576.60
Invert out	576.43



Rectangular Trapezoidal Pump Chamber Volume Calculations

Parameter	Value
In height (inside dimension)	58.00 in.
Wt. Top Width (inside dimension)	47.00 in.
L. Top Length (inside dimension)	123.00 in.
Wt. Bottom Width (inside dimension)	42.00 in.
L. Bottom Length (inside dimension)	118.00 in.
Chamber Bottom Area (A x B)	7315.0 sq. in.
Chamber Volume at inlet level (V1)	405831 cu. in.
Height from bottom of chamber to inlet level (H1)	50.0 in.
Chamber width at inlet level (C1)	46.41 in.
Chamber length at inlet level (D1)	122.33 in.
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Chamber Volume at inlet level (V1)	85506 cu. in.

Hourly Switch Setting Parameters & Volume Calculations

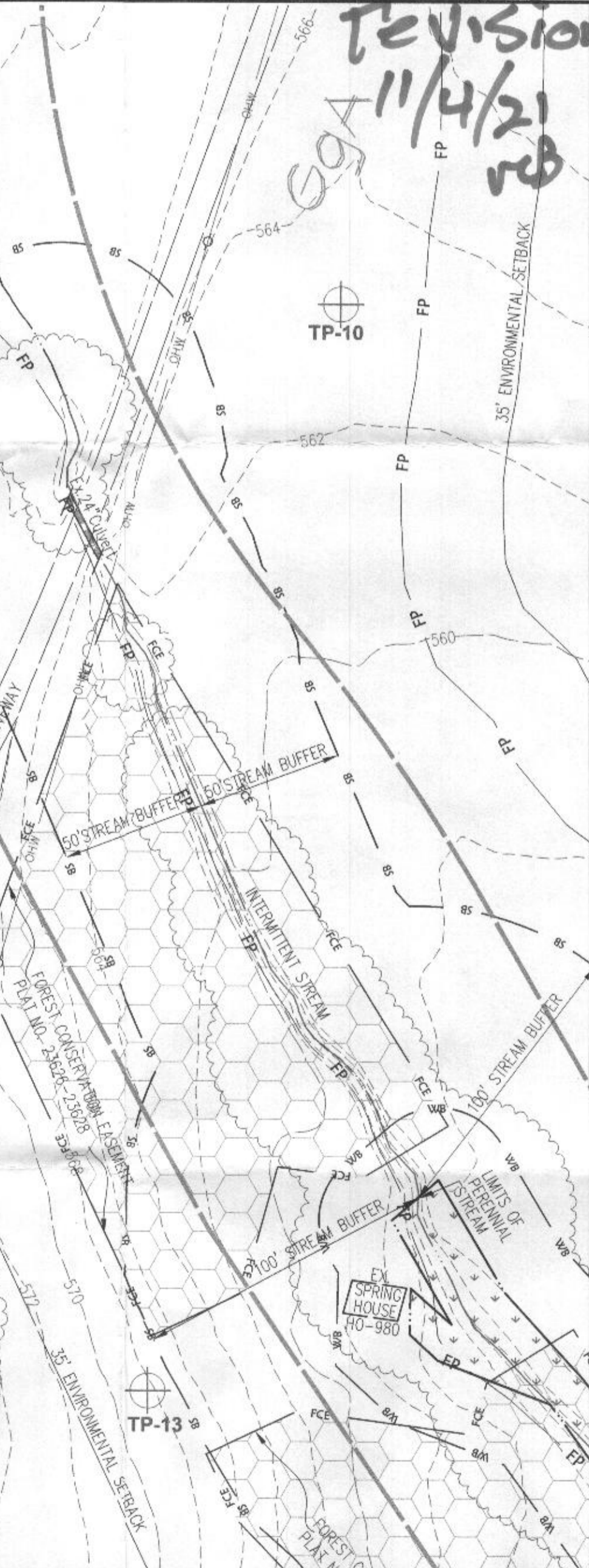
Parameter	Value
Design flow per day (from reserved capacity to alarm level)	6000 gal.
Design frequency per day @ volume per dose	6 doses @ 1000 gal./dose
Water level (W1) to switch on alarm	32.00 in.
Chamber width at alarm level (C1)	44.76 in.
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Chamber length at this level (D3)	115.90 in.
Chamber Sectional Area at this level (C3 x D3)	7660.9 sq. in.
Water volume (V3) to switch pump on	58774 cu. in.
Volume between on/off water level (V3-V4) (PVC/Duct/Con/Pipe/Duct/Con)	30771 cu. in.
Back Check closing volume switch setting (V4-V3)	133 gal.

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Item	Elevation
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Delta (cover above tank, 3' max.)	3.00 ft
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Bottom of chamber elevation (tank floor)	570.52
Invert in	575.02
Invert out	574.77
Bottom of Pump (set on 6" block)	571.35
Bottom of chamber (floor) elevation	570.85
Top Seam (chamber ceiling) Elevation	575.68

Wynne Residence Septic Tank Elevations

Item	Elevation
High finished grade above tank	579.40
Top of tank elevation	576.68
Delta (cover above tank, 3' max.)	2.72 ft
Outside bottom of BAT tank elevation	571.10
Invert in	576.60
Invert out	576.43



VICINITY MAP

SCALE: 1" = 2000'

ADC MAP: 4
ORD: C4 & C5

LEGEND

- EXISTING CONTOUR
- PROPOSED 2-FT CONTOUR
- 100 YEAR FLOODPLAIN
- STREAM BUFFER
- 25' WETLAND BUFFER
- EXISTING WETLANDS
- EXISTING FOREST-CONSERVATION EASEMENT
- PROPOSED WELL BOX LOCATION
- PROPOSED PRIVATE SEWAGE DISPOSAL AREA
- PROPOSED DRYWELL LOCATION
- PERCOLATION TEST PIT FAILED BY HEALTH DEPARTMENT
- PERCOLATION TEST PIT PASSED BY HEALTH DEPARTMENT
- INITIAL SYSTEM 2" WIDE TRENCH
- FIRST REPLACEMENT SYSTEM 3" WIDE TRENCH
- SECOND REPLACEMENT SYSTEM 3" WIDE TRENCH

SDA TRENCH ELEVATION CHART

Ground Elevation	TRENCH#1	TRENCH#2
590.10	589.40	
588.10	587.40	
586.10	585.40	
584.10	583.40	

SEPTIC TRENCH SECTION DETAIL

NO SCALE

GRAPHIC SCALE

SCALE: 1" = 40'

GLW

PLANNING [ENGINEERING] SURVEYING

3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20886 | GLWPA.COM
PHONE: 301-421-4024 | BAL: 410-880-1820 | DC&VA: 301-969-2524 | FAX: 301-421-4186

DESIGNED BY: mbt

DRAWN BY: klp

CHECKED BY: ckg

DATE: _____

REVISION: _____

BY: _____

APPR: _____

PREPARED FOR:

OWNER:
BRIAN WYNNE
2055 HIGHWAY A1A UNIT 1201
INDIAN HARBOUR BEACH,
FLORIDA 32937
wynnebrisan5@gmail.com

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12975

EXPIRATION DATE: MAY 26, 2027

9/19/21

ONSITE SEWERAGE DISPOSAL SYSTEM DESIGN PLAN

WYNNE PROPERTY

TAX PARCEL 2 (15685 OLD FREDERICK ROAD)

PLAT No. 23626-23628

ELECTION DISTRICT No. 4

HOWARD COUNTY, MARYLAND

SCALE: 1" = 40'

ZONING: RC-DEO

G. L. W. FILE NO.: 21020

DATE: AUGUST 2021

TAX MAP - GRID: 8-1

SHEET: 1 OF 1

Fogle's Septic Clean Inc.

Fogle's Portable Toilets • Fogle's Well Drilling LLC • Fogle's Excavating, LLC



July 20, 2021

Howard Co Dept of Environmental Health
8930 Stanford Blvd
Columbia, Md 21045

To Whom it may concern,

On July 19th 2021 Fogle's Septic Clean Inc, pumped, crushed and filled in old cesspool to abandon, located at 15685 Old Frederick Rd for Brian Wynne .
If you have any questions please call me at the office 410-795-5670.

Sincerely,

A handwritten signature in cursive script that reads "Kurt Cassell".

Kurt Cassell
Fogle's Septic Clean, Inc.