



**Howard County
Health Department**

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

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

RECEIPT DATE: 10/11/22 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 572198

APPROVAL DATE: 3/24/23 **PERMIT: New CONSTRUCTION**

A _____

PROPERTY ADDRESS: 15683 OLD FREDERICK ROAD, WOODBINE, MD 21797

SUBDIVISION: TAX MAP 8, PARCEL 2 (TENANT HOUSE)

LOT: --- TAX ID: 04-315383

CONTRACTOR: Fogles Septic Clean Inc.

EMAIL: hco@foglesinc.com

CONTRACTOR ADDRESS: 580 Cobble Hill Rd, 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: 5

APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>267 158</u> <input checked="" type="checkbox"/>	INLET DEPTH: <u>2.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>4.0 6.0</u> <input checked="" type="checkbox"/>
	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:	A 6-OUTLET DISTRIBUTION BOX IS NEEDED. INSTALL AT LEAST ONE CLEANOUT IN SHC. <u>2x 79 TRS</u> <input checked="" type="checkbox"/> 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: 10/26/2022

EXPIRATION DATE: 10/26/2023

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 225139

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' BOTTOM 4'
NUMBER OF TRENCHES 6
TOTAL LENGTH 201 F
ABSORPTION AREA 792 SF + 1 SIDE WALL
DISTRIBUTION BOX LEVEL PUMP
DISTRIBUTION BOX BAFFLE 90 TURN
DISTRIBUTION BOX PORT YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL yes
MANUFACTURER Babylon
CAPACITY 2000 GAL
SEAM LOC top
TANK LID DEPTH 1.5'-2.5'
BAFFLES front 6" / back 4"
BAFFLE FILTER -
MANHOLE LOC front / back
6" PORT LOC -
WATERTIGHT TEST -
SLOTTED yes
DATE ON LID 9/20/22
PUMP/SEPTIC TANK LEVEL yes
MANUFACTURER Babylon
CAPACITY 1500 GAL
SEAM LOC top
TANK LID DEPTH 1.5'-2.5'
BAFFLES -
BAFFLE FILTER -
MANHOLE LOC back
6" PORT LOC -
WATERTIGHT TEST -
SLOTTED -
DATE ON LID 8/30/22

PRE-CONSTRUCTION:

10/26/2022 MOVE AND INSTALL 2ND REP SYSTEM ALONG SIDA BORDER. SET D BOX IN MIDDLE ON STONE IS OK. TR EXTEND ~ 2' OUT SDA IS OK. 10/27/22 - layout of trenches not completed because contractor did not have a transit on site to verify contours (RR)

*GET W/ENGINEER RESPEC PUMP & CONFIRM W/BUILDER

10/31/2022 CONFIRMED CONTOUR OF 6x4" TRS

INSTALLATION: 10/27/22 - site insp w/ contractor, sewer line & tanks set, baffles in place, ok to continue, check SHC @ reinspection - RR

11/03/2022 COMPLETED 6x TRS; TIED IN TO D BOX
3/24/23 - Pump and alarm OK (RR)

FINAL INSPECTOR

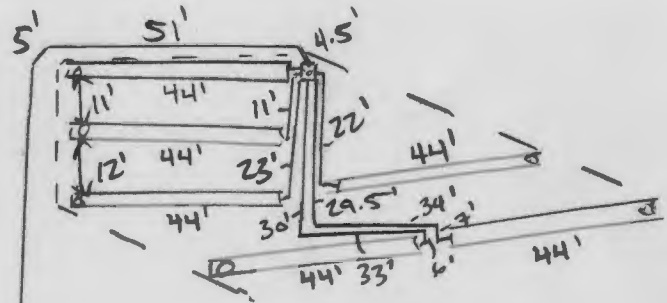
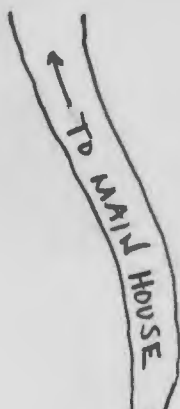
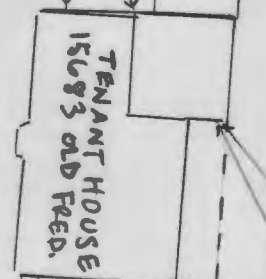
R. Roppaport

DATE OF APPROVAL

3/24/23

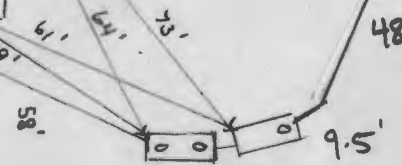
NOT TO SCALE 1" ~ 40'

HO-20-0142



87'

DRIVEWAY TO OLD FRED. RD



Wolf, Kevin

From: Wolf, Kevin
Sent: Tuesday, October 4, 2022 2:44 PM
To: mtran@glwpa.com
Cc: kpierce@glwpa.com
Subject: 15683 Old Frederick Road (tenant house)

Hi Mike,

I am in review of the 'wallcheck' survey plan and notice there is a FFE shown @ 586.4 and no 'top-of-wall'. I am assuming when you guys went out to perform this survey there was no top of wall but rather the first floor was in? Also, while comparing this to the approved osds plan, you only show the BSE. Can you provide me with the first floor elevation and top-of-wall elevation please?

Thanks,

Kevin M. Wolf, LEHS, REHS/RS
Groundwater Mgmt. Sec. Supervisor
Well & Septic Program
Howard County Health Department
8930 Stanford Blvd.
Columbia, MD 21045
410-313-2645 (Office)
410-313-2648 (Fax)
www.hchealth.org
kwolf@howardcountymd.gov



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CONFIDENTIALITY NOTICE

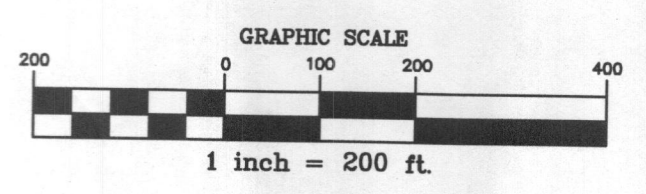
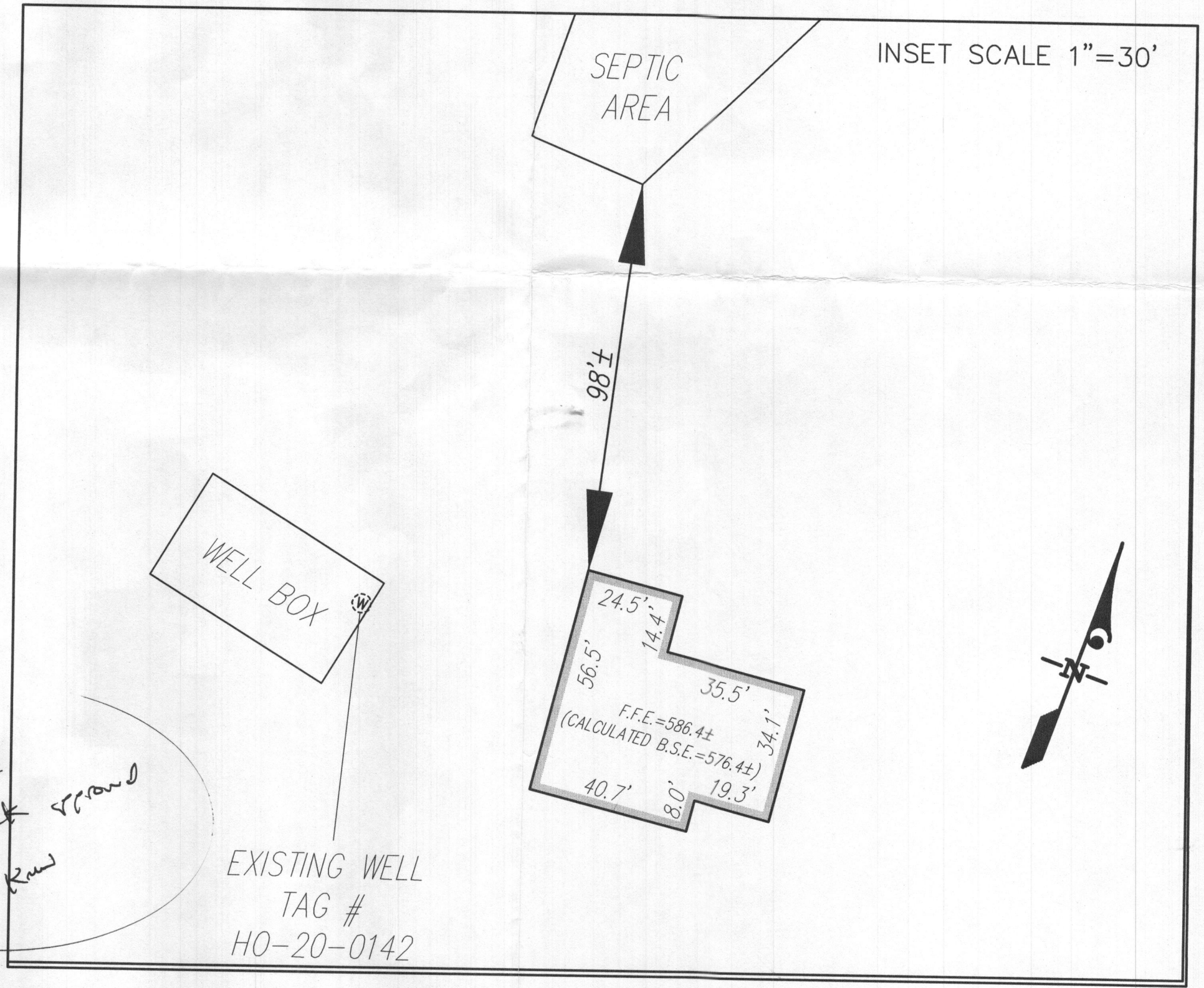
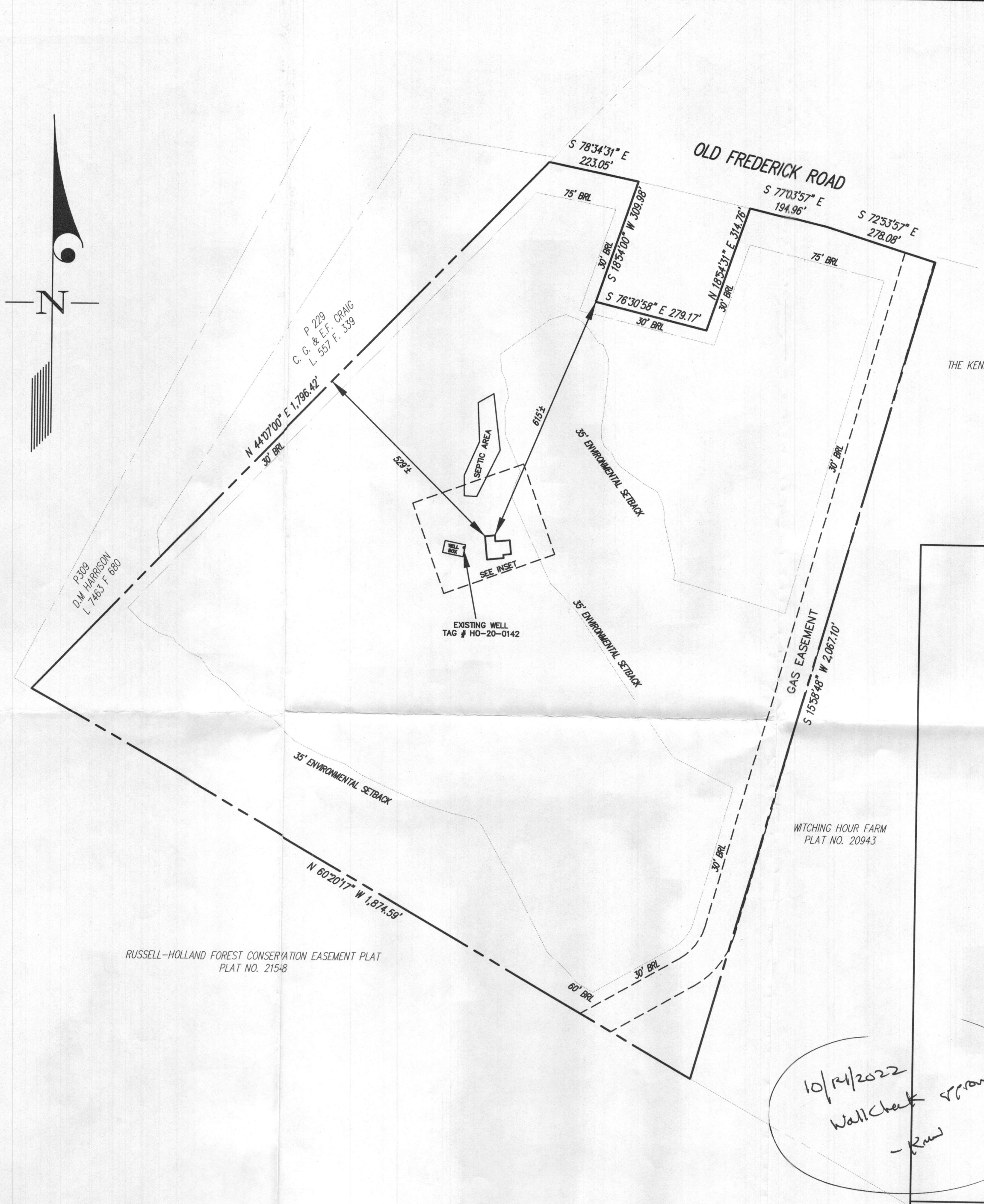
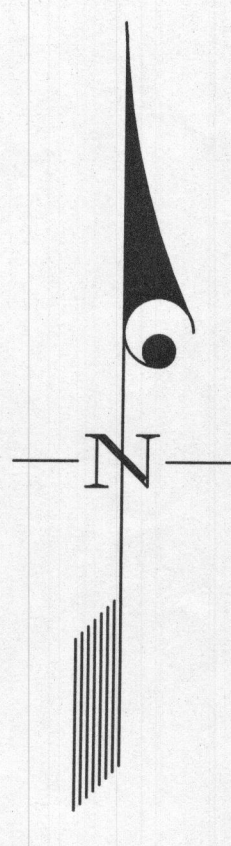
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NOTES:
 THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS-OF-WAY, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED 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. 2402700350, EFFECTIVE DATE NOVEMBER 6, 2013.



10/14/2022
 Wallcheck record
 - RW

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.

For Gutschick, Little and Weber, P.A. :
 Thomas C. O'Connor, Jr., Professional Land Surveyor,
 No. 10954 (EXP. DATE: 07/03/2024)

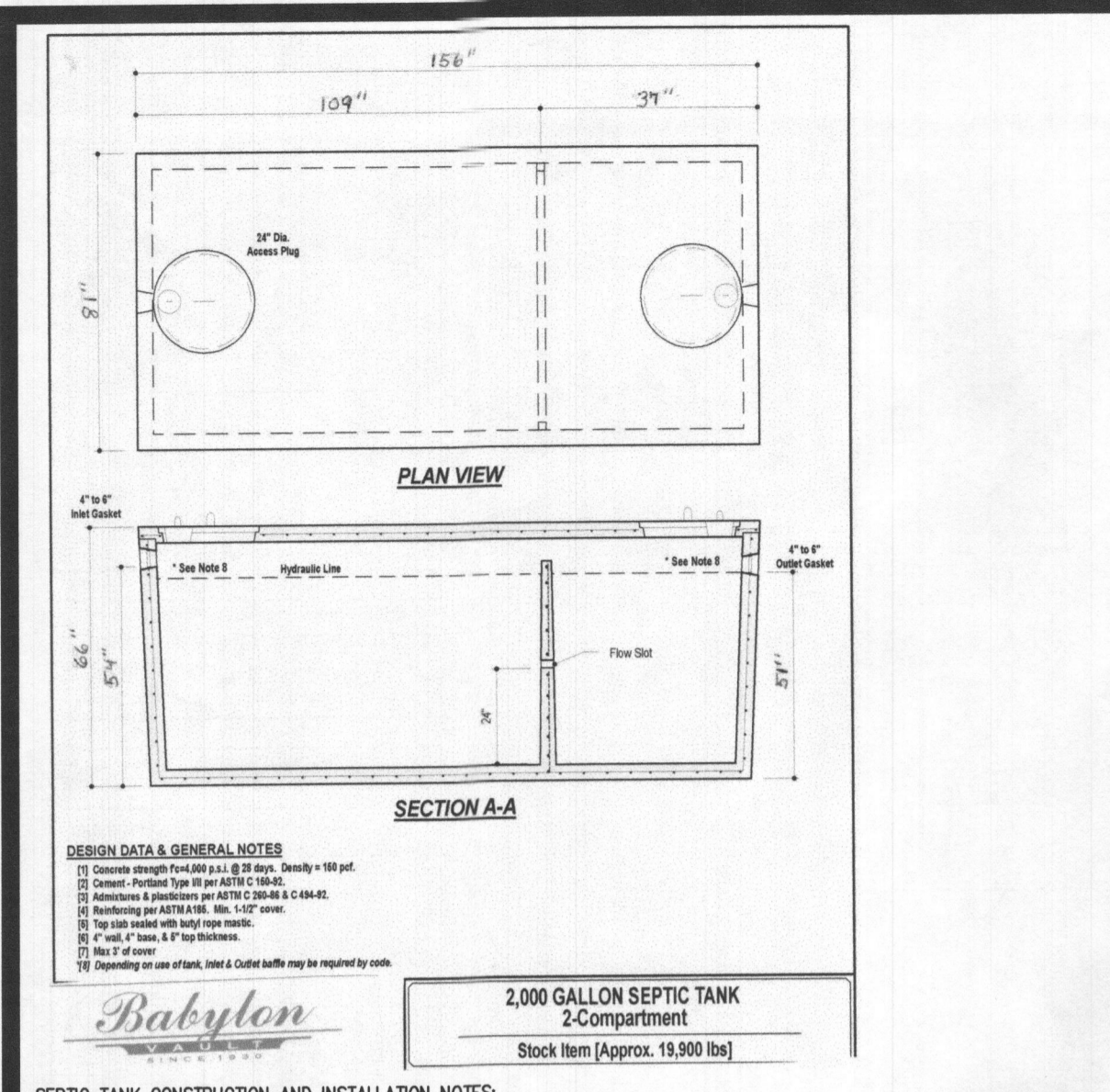
THIS WALLCHECK IS VALID ONLY WITH AN ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE SURVEYOR.

WALLCHECK (SPECIAL PURPOSE SURVEY)		G.L.W. FILE No.:
PROPERTY OF WYNNE FAMILY, LLC		21-020
15683 OLD FREDERICK ROAD WOODBINE, MARYLAND 21797		DATE:
		08/12/2022
		SCALE:
		1"=200'
		SHEET:
		1 OF 1
REFERENCE :		L.20327 F.137



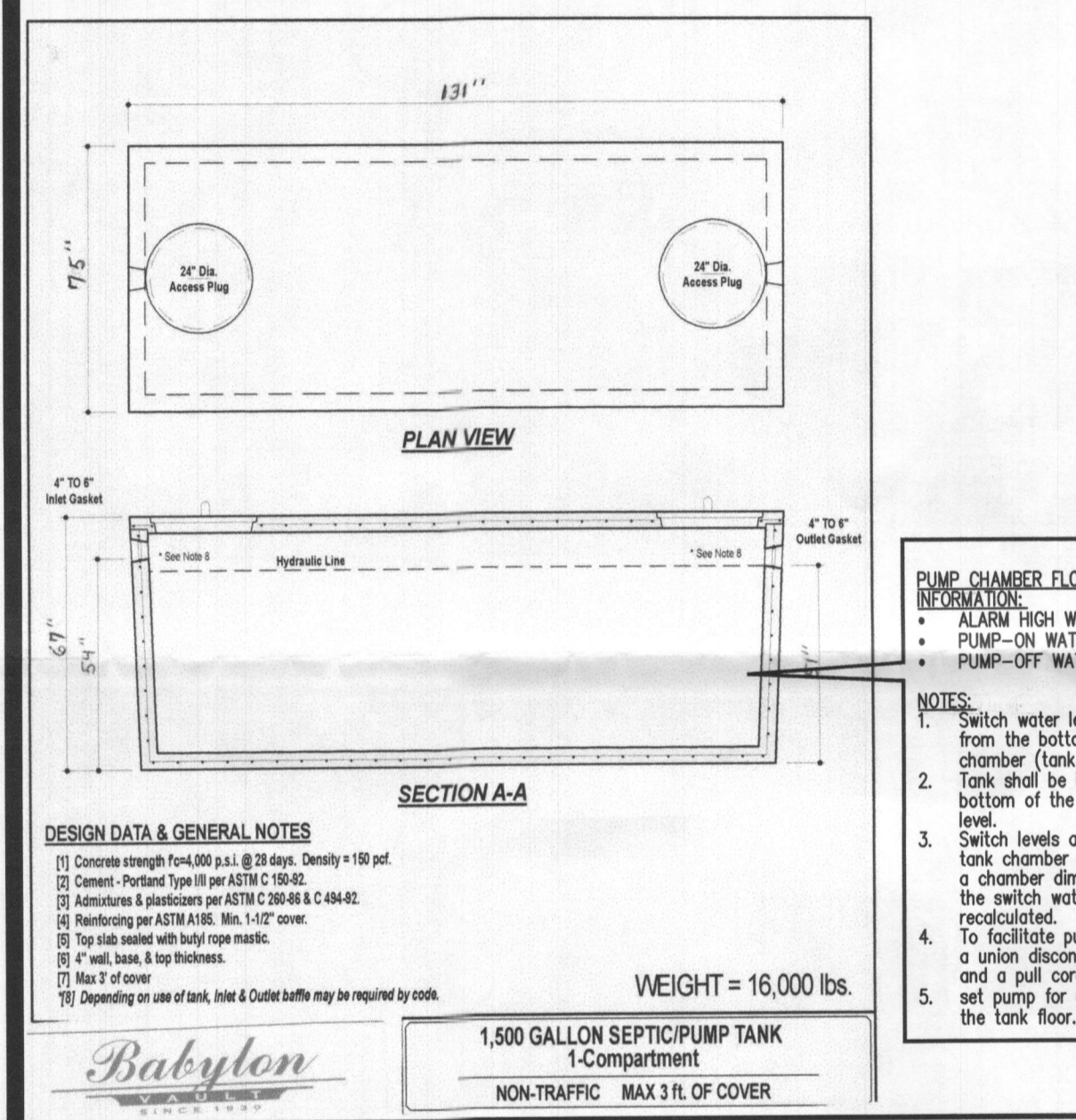
DES.	PREPARED FOR :
DRN.	BRIAN WYNNE
MDK	2065 HIGHWAY A1A
CHK.	UNIT 1201
	INDIAN HARBOR
	BEACH, FL 32937

S:\Survey Drawings\WALLCHECK\WYNNE PROPERTY-2102021020WCK-TEENANT HOUSE WITH BASEMENT SLAB ELEVATION.dwg, 10/7/2022 1:46:53 PM, dlk, 1:1



SEPTIC TANK CONSTRUCTION AND INSTALLATION NOTES:

- TANK TO BE ASTM C1277-20 AND HOWARD COUNTY COMPLIANT AND INCLUDE A PROPERLY POSITIONED INLET T-BUFFLE EXTENDED INTO THE TANK AIR SPACE AT LEAST 8-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.
- PROVIDE ADDITIONAL COUPLINGS AS MANDATED BY HOWARD COUNTY, MD.
- SET THE TANKS ON A 2-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 SM TECH OR TUF-TITE. TANK AND RISERS TO BE WATER TIGHT 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.



Rectangular Trapezoidal Pump Chamber Volume Calculations

Parameter	Value	1500 Gal. Tank
H: Height (inside dimension) from bottom of chamber to top seam/ceiling	58.00 in.	
W: Top Width (inside dimension)	67.00 in.	
L: Top Length (inside dimension)	123.00 in.	
a: Bottom Width (inside dimension)	62.00 in.	
b: Bottom Length (inside dimension)	118.00 in.	
Chamber Bottom Area (a x b)	7316.0 sq. in.	
Chamber volume to top seam/ceiling (Vc)	450911 cu. in.	1952 gal.
Height from bottom of chamber to inlet invert level (Si)	50.0 in.	
Chamber width at inlet level (Ci)	66.31 in.	
Chamber length at inlet level (Di)	123.31 in.	
Chamber Sectional Area at Inlet level (Ci x Di)	8110.4 sq. in.	
Chamber Volume at Inlet level (Vi)	385506 cu. in.	1669 gal.

Float Switch Setting Parameters & Volume Calculations

Parameter	Value	1500 Gal. Tank
Design flow per day (min. reserved capacity to set alarm level)	750 gal.	
Dosing frequency per day & volume per dose	6 doses at 125.0 gal./dose	
Water level (Sa) to switch on alarm	29.50 in.	
Chamber width at alarm level (Ca)	64.54 in.	
Chamber length at alarm level (Da)	120.54 in.	
Chamber Sectional Area at alarm level (Ca x Da)	7780.2 sq. in.	
Water volume at alarm level (Va)	226588 cu. in.	964 gal.
Reserved Capacity between alarm level and Inlet Invert level (M-Va)	162898 cu. in.	705 gal.
Additional capacity in the pump chamber above the inlet level to be utilized since the septic tank outlet invert is 2.8 inches higher than the pump tank inlet invert elevation. The additional capacity provided above the pump tank inlet invert is:	22892 cu. in.	99 gal.
Total Reserved capacity available	185760 cu. in.	804 gal. (OK)
Alarm High Water Level (from bottom of pump chamber)	29.50 in.	
Pump on water level (O, from bottom of pump chamber)	24.50 in.	
Chamber width at this level (Co)	64.11 in.	
Chamber length at this level (Do)	120.11 in.	
Chamber Sectional Area at Inlet level (Co x Do)	7700.63 sq. in.	
Water volume (Vo) to switch pump on	183936 cu. in.	796 gal.
Pump off water level (F, from bottom of pump chamber)	20.50 in.	
Chamber width at this level (Cf)	63.77 in.	
Chamber length at this level (Df)	119.77 in.	
Chamber Sectional Area at this level (Cf x Df)	7637.23 sq. in.	
Water volume (Vf) to switch pump off	153260 cu. in.	663 gal.
Volume between on-off switches: ((O-F)/H)(Co+Df)(Co+Cf)((Do+Df)+Cf*Df)	30676 cu. in.	133 gal.
Back Check dosing volume switch setting: Vc-Vf	30676 cu. in.	133 gal.

GLW PLANNING | ENGINEERING | SURVEYING

3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20886 | GLWPA.COM
PHONE: 301-421-4024 | BALTO: 410-880-1820 | DC/VA: 301-689-2524 | FAX: 301-421-4186

DESIGNED BY: **mbt**
DRAWN BY: **ktp**
CHECKED BY: **ckg**

DATE: _____ BY: _____ APPR: _____

Goulds Water Technology

Wastewater

APPLICATIONS
Specifically designed for the following uses:
• Homes, Farms, Trailer Camps, Mobile, Schools, Hospitals, Industry, Effluent Systems

PERFORMANCE RATING (gallons per minute)

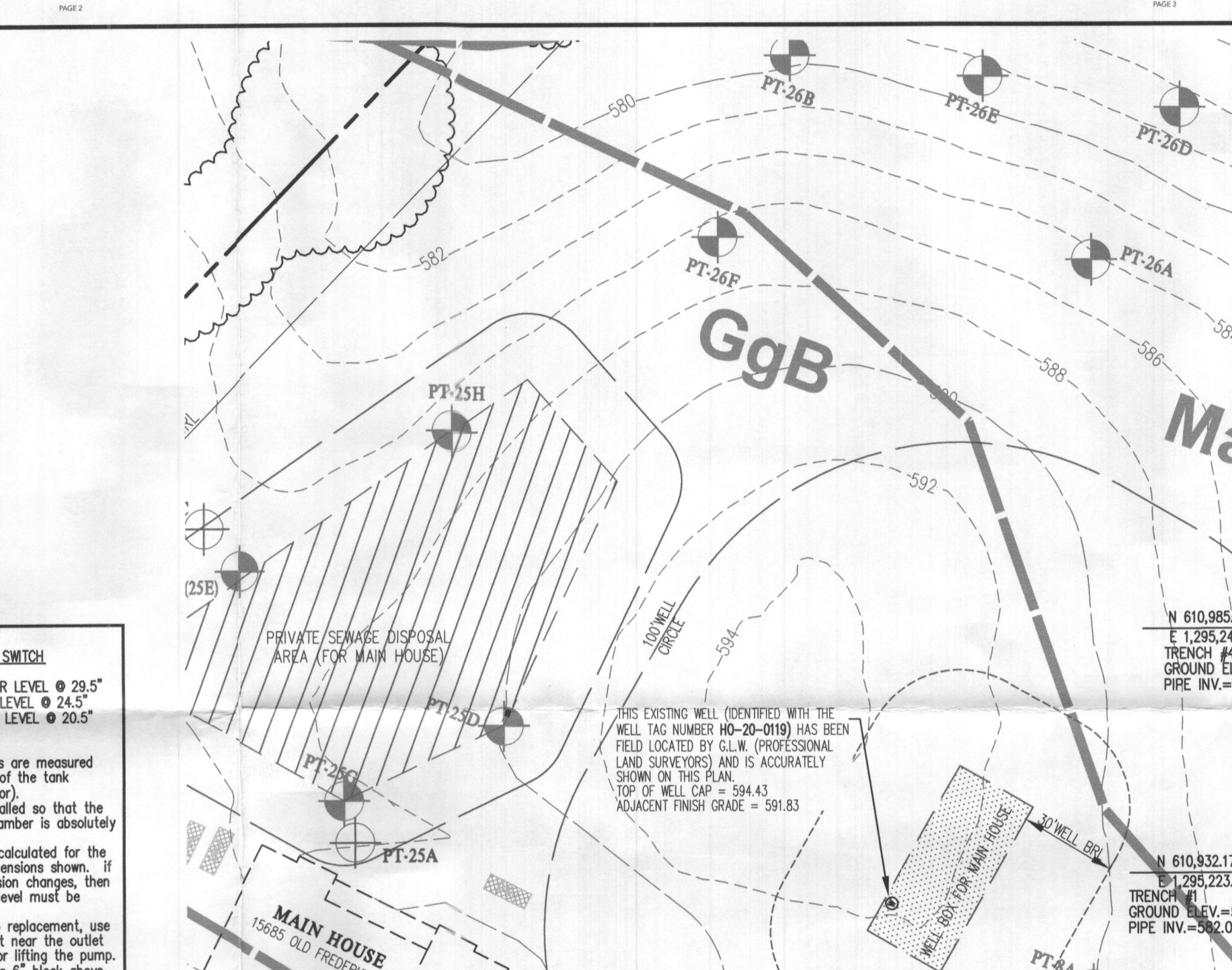
Model	Flow	Head	Efficiency
500	10	10	75
1000	20	20	75
1500	30	30	75
2000	40	40	75
3000	60	60	75
4000	80	80	75
5000	100	100	75
6000	120	120	75
8000	160	160	75
10000	200	200	75

COMPONENTS

- 1. Cast Iron
- 2. Mechanical Seal
- 3. Motor
- 4. Bearings
- 5. Drive Shaft
- 6. Impeller

AGENCY LISTINGS

1. **AGENCY LISTINGS**
A list of agencies where Goulds pumps are used, including various municipalities and industrial sites.



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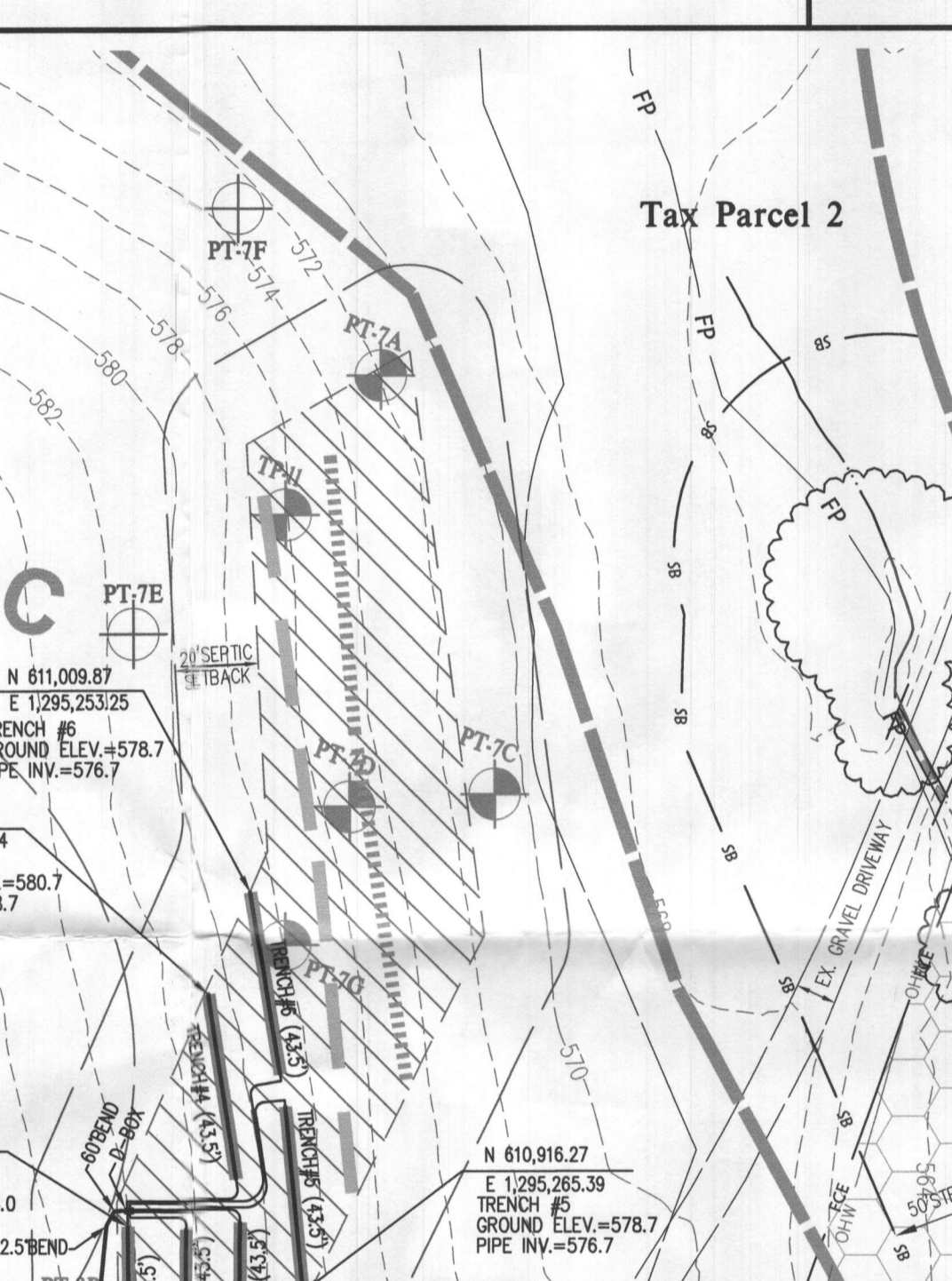
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1000	20	20	75
1500	30	30	75
2000	40	40	75
3000	60	60	75
4000	80	80	75
5000	100	100	75
6000	120	120	75
8000	160	160	75
10000	200	200	75

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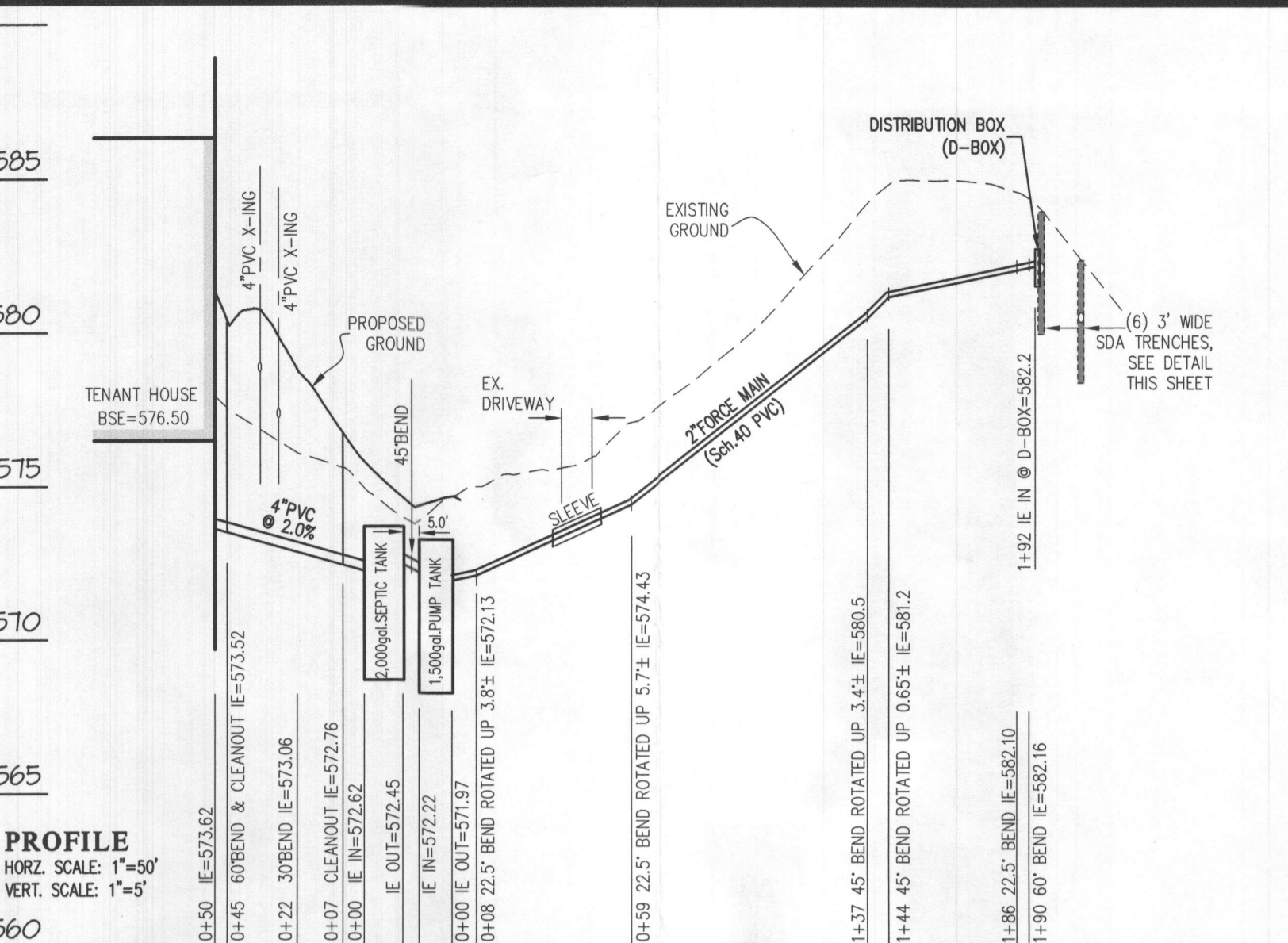
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DESIGNED BY: **mbt**
DRAWN BY: **ktp**
CHECKED BY: **ckg**

DATE: _____ BY: _____ APPR: _____



SDA TRENCH SIZE CALCULATIONS

Wynne Property - Tenant House | 15683 Old Frederick Rd.

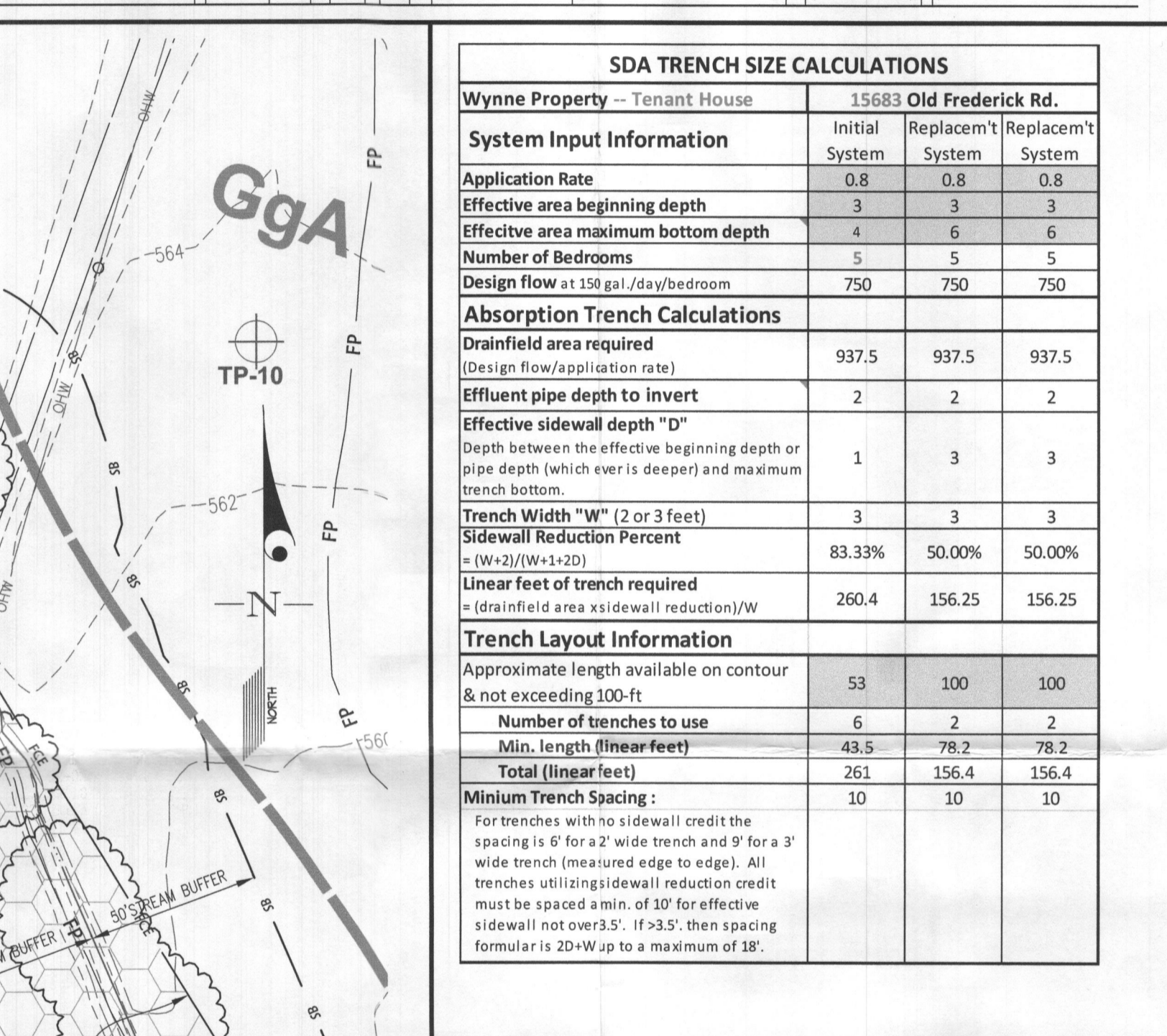
System Input Information	Initial System	Replacement System	Replacement System
Application Rate	0.8	0.8	0.8
Effective area beginning depth	3	3	3
Effective area maximum bottom depth	4	6	6
Number of Bedrooms	5	5	5
Design flow at 150 gal./day/bedroom	750	750	750

Absorption Trench Calculations

Parameter	Initial System	Replacement System	Replacement System
Drainfield area required (Design flow/application rate)	937.5	937.5	937.5
Effluent pipe depth to invert	2	2	2
Effective sidewall depth "D"	1	3	3
Trench Width "W" (2 or 3 feet)	3	3	3
Sidewall Reduction Percent = (W+2)/(W+1+2D)	83.33%	50.00%	50.00%
Linear feet of trench required = (Drainfield area x sidewall reduction)/W	260.4	156.25	156.25

Trench Layout Information

Parameter	Initial System	Replacement System	Replacement System
Approximate length available on contour & not exceeding 100-ft	53	100	100
Number of trenches to use	6	2	2
Min. length (linear feet)	43.5	78.2	78.2
Total (linear feet)	261	156.4	156.4
Minimum Trench Spacing:	10	10	10



Wynne Property - Tenant House Pump Tank Elevations

High finished grade above tank	575.30
Top of tank elevation	573.30
Delta (cover above tank, 3' max.)	2.00 ft.
Outside bottom of tank	567.72
Bottom of chamber elevation	568.05
Invert in	572.22
Invert out	571.97
Bottom of pump (set on 6" block)	568.55
Bottom of chamber (floor) elevation	568.05
Top Seam (chamber ceiling) Elevation	572.88

Wynne Property - Tenant House Septic Tank Elevations

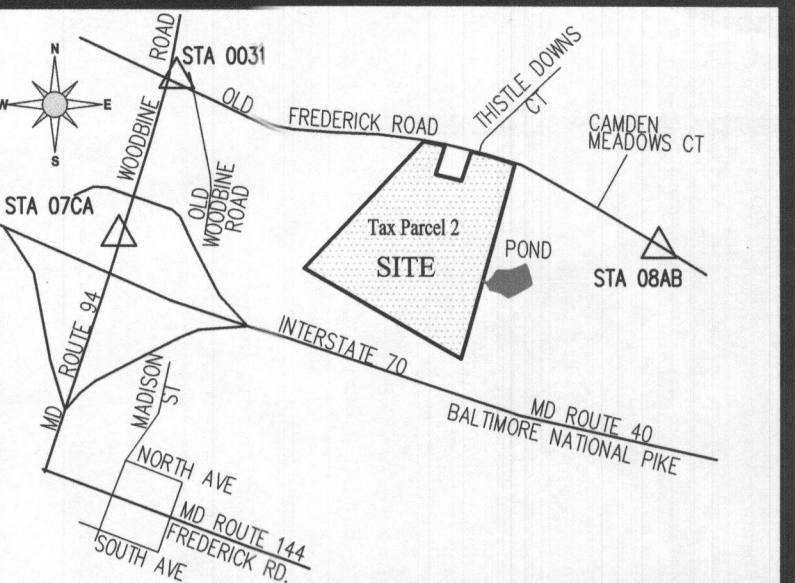
High finished grade above tank	576.30
Top of tank elevation	573.70
Delta (cover above tank, 3' max.)	2.60 ft.
Outside bottom of BAT tank elevation	568.12
Invert in	572.62
Invert out	572.45

ONSITE SEWERAGE DISPOSAL SYSTEM DESIGN PLAN

TAX PARCEL 2 - 15685 OLD FREDERICK ROAD
WYNNE PROPERTY
Tenant House (15683 Old Frederick Road)
PLAT No. 23626-2328

SCALE: 1" = 40'
ZONING: RC-DEO
G. L. W. FILE No. 21020

DATE: JAN. 2022
TAX MAP - GRID: 8-1
SHEET: 1 OF 1



VICINITY MAP
SCALE: 1" = 2000'

LEGEND

- EXISTING CONTOUR
- PROPOSED 2-FT CONTOUR
- 100 YEAR FLOODPLAIN
- STREAM BUFFER
- 25' WETLAND BUFFER
- EXISTING WETLANDS
- EXISTING FOREST CONSERVATION EASMENT
- WELL BOX LOCATION
- PRIVATE SEWAGE DISPOSAL AREA
- DRYWELL LOCATION

Approved Septic System Plan
Howard County Health Department
2000-gallon septic tank w/1500-gallon pump tank & Goulds WE 03 L pump or equivalent
To Gravity Distribution for 5-bedroom residence

Signature: *[Signature]* Date: 2/3/2022

SDA TRENCH ELEVATION CHART

TRENCH No.	1	2	3	4	5	6
Ground Elevation	584.00	582.40	580.70	580.70	578.70	576.70
Pipe Invert Elevation	582.00	580.40	578.70	578.70	576.70	574.70
Effective Area Beginning Depth	581.00	579.40	577.70	577.70	575.70	573.70
Bottom of Trench	580.00	578.40	576.70	576.70	574.70	572.70

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. 12923, EXPIRATION DATE: MAY 26, 2022

[Signature]

PREPARED FOR:
OWNER: BRIAN WYNNE
2065 HIGHWAY A1A UNIT 1201
INDIAN HARBOR BEACH, FLORIDA 32937
wynnebr@comcast.net

ELECTION DISTRICT No. 4

