

GENERAL NOTES

- THIS PROPERTY IS ZONED RR-DEO.
- THE PROPERTY BOUNDARY SHOWN IS BASED ON EXISTING DEED OF RECORD.
- DEED REFERENCE: LIBER 18285 FOLIO 225.
- THE EXISTING TOPOGRAPHY IS BASED ON FIELD RUN SURVEY CONDUCTED BY JNM ENGINEERING.
- ANY CHANGE TO THE SEWAGE DISPOSAL AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- ADJUSTMENTS TO THE SEWAGE DISPOSAL AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
- SOIL TYPES SHOWN ON THIS PLAN ARE FROM THE USDA WEB SOIL SURVEY.
- ALL EXISTING WELLS AND SEWAGE DISPOSAL AREAS AND COMPONENTS WITHIN 100'-FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING/PROPOSED WELLS 200' DOWN GRADIENT FROM EXISTING OR PROPOSED SEPTIC SYSTEMS HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
- ALL BUILDING SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
- AN OSDS PLAN WILL BE REQUIRED TO SHOW HOW 3 SYSTEMS FIT WITHIN THE APPROVED SEWAGE DISPOSAL AREA (SDA) PRIOR TO THE RELEASE OF THE SEPTIC PERMIT.
- THE EXISTING SEPTIC SYSTEM MUST BE ABANDONED AND A NEW SYSTEM INSTALLED PRIOR TO BUILDING PERMIT APPROVAL.
- EXISTING WELL (TAG# HO-17-0226) HAS BEEN FIELD LOCATED AND ACCURATELY SHOWN.
- A VARIANCE REQUEST WAS APPROVED ON 7/5/23 TO COMAR 26.04.02.04K TO MODIFY THE STEEP SLOPE OFFSET FROM 25 FEET TO 5 FEET WITH SUPPORTING JUSTIFICATION.
- 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 SITE PLAN MAY BE REQUIRED.
- SEPTIC TANK AND PUMP CHAMBERS COVER DEPTHS SHALL NOT EXCEED 3'-FEET.
- ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- IF THE NEW SEPTIC TANK AND/OR PUMP CHAMBER IS INSTALLED WITHIN THE OLD SEPTIC TRENCH, THE TRENCH SOIL AND STONE WILL NEED TO BE PROPERLY DISPOSED AND A BERM WILL HAVE TO BE CONSTRUCTED BETWEEN THE OLD TRENCH LOCATION AND NEW TANKS.

ZONING DATA

ZONING: RR-DEO
MIN. LOT AREA = 130,680 SQ FT (3 AC.)
MIN. LOT WIDTH AT R/W = 200 FT
MIN. LOT WIDTH AT B.R.L. = 200 FT
FRONT BRL = 50 FT
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SEPTIC SIZING

Lot Created 1958
System Requirements (1 Initial and 2 replacements).
Proposed Number of Bedrooms: 4
Design Load: 600 Gal/Day
Initial System:

Initial System
Perc rate 6-15 minutes (0.8)
Absorption Area Required: 600/0.8=750
750/3= 250ft
(5/9)*250= 138.9
Total Deep Trench Length Required: 138.9-feet (4 trenches at 35')

Replacement System 1
600 GPD
600/80= 750
750/3= 250
250x0.36 (5' Sidelwall)= 90 LF Required
90/3= 20 ft. (Install 3- 30' long trenches)

Replacement System 2
600 GPD
600/1.2= 500
500/3= 167
167x0.45 (3.5 ft. sidewall)= 75ft Required
75/2= 37.5' (Install 2 - 37.5' long trenches)

SOILS DATA TABLE

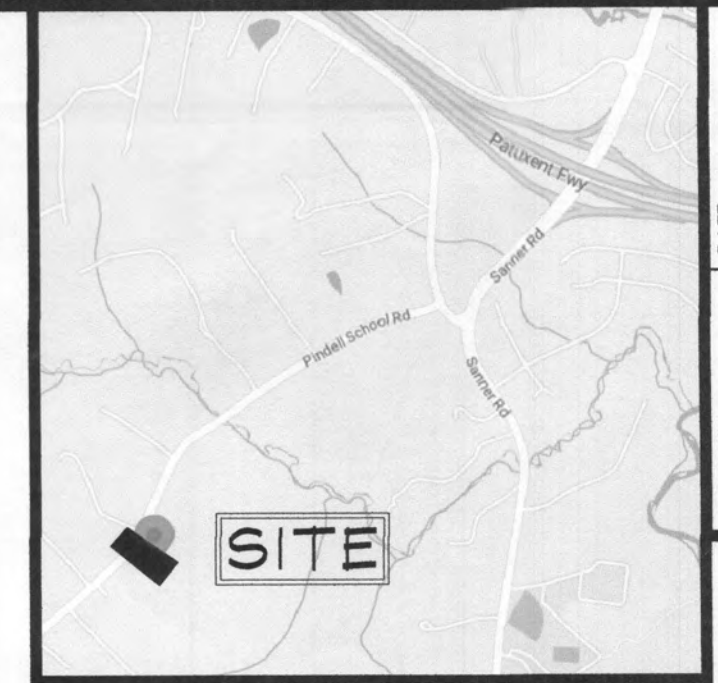
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LEGEND

	EX. PROP. LINE
	EX. FENCE
	PROP. DRIVEWAY
	SEWAGE DISPOSAL AREA
	SOIL BOUNDARY
	EX. 2' CONTOUR
	EX. 10' CONTOUR
	WELL (EX. OR PROP.)
	BUILDING RESTRICTION LINE
	EX. SPOT ELEVATION
	FAILED PERC TEST
	PASSED PERC TEST
	EX STEEP SLOPES



VICINITY MAP

DATE	BY	REVISION	PROJECT	DATE
			21-0526	8/2023
			ILLUSTRATION	ENGINEERING
			JWW	JWW
			SCALE	APPROVAL
			1"=20'	JWW

PARCEL 193, TAX MAP 41, 5TH ELECTION DISTRICT

7081 PINDELL SCHOOL RD

FULTON, HOWARD COUNTY, MARYLAND

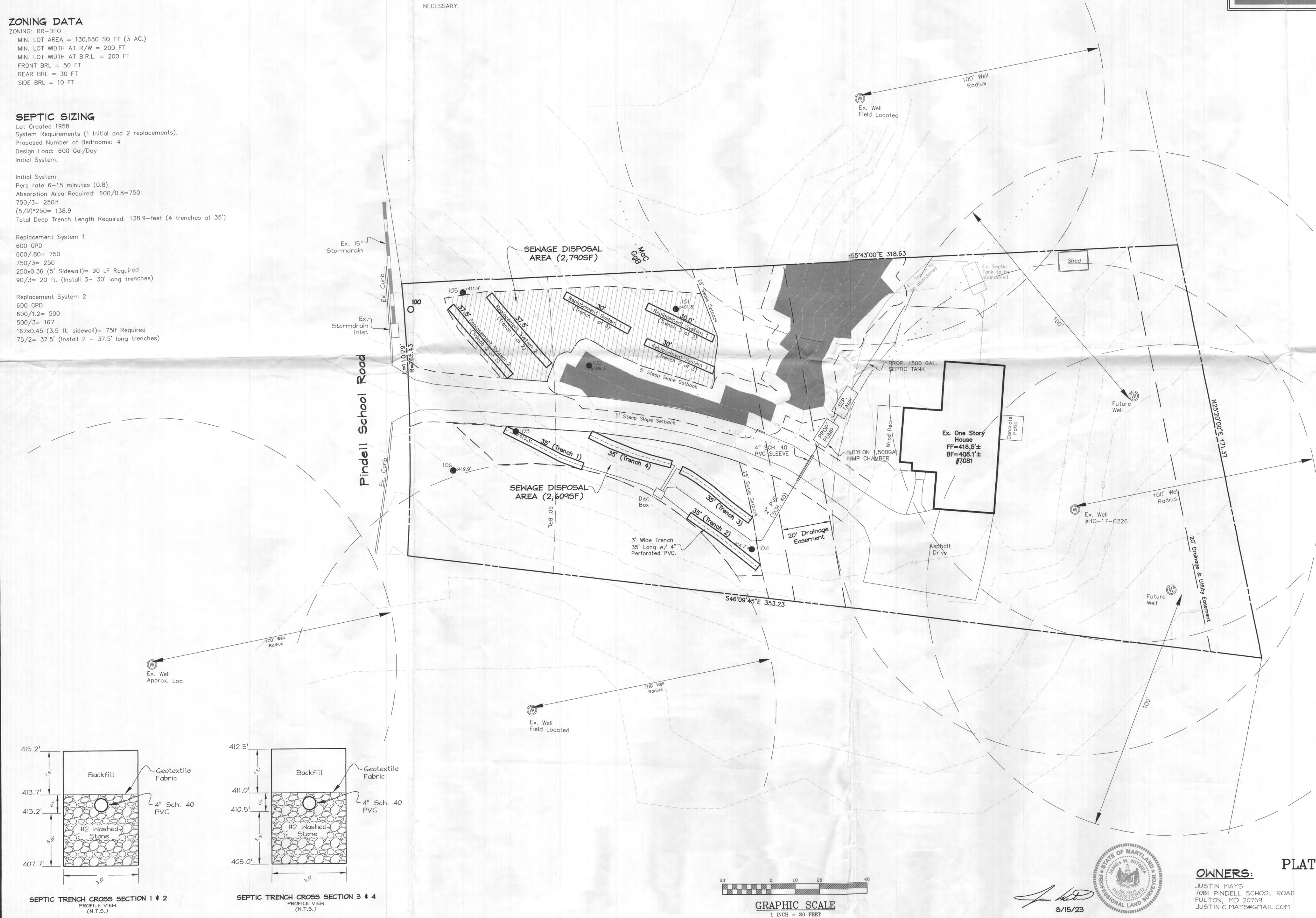
ONSITE SEWAGE DISPOSAL DESIGN PLAN

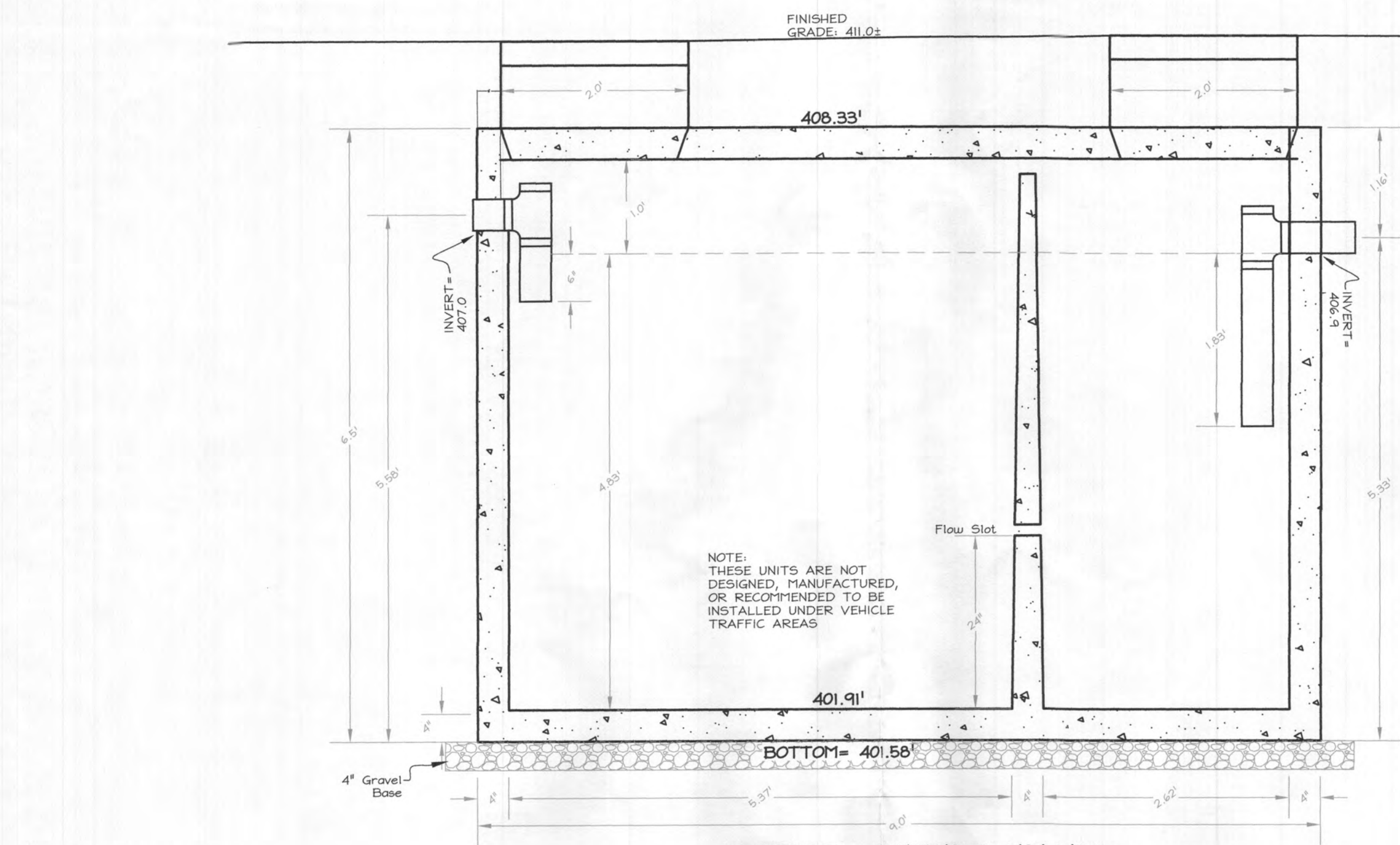
JNM ENGINEERING, LLC

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ENVIRONMENTAL, ARBORICULTURE, LEED PROFESSIONALS
106 LEAFY HOLLOW CIRCLE, MOUNT AIRY, MD 21771
(301) 514-2808, JNMENGINEERINGLLC.COM

Approved Septic System Plan
Howard County Health Department
Signature: Hank Oswald Date: 8/8/23

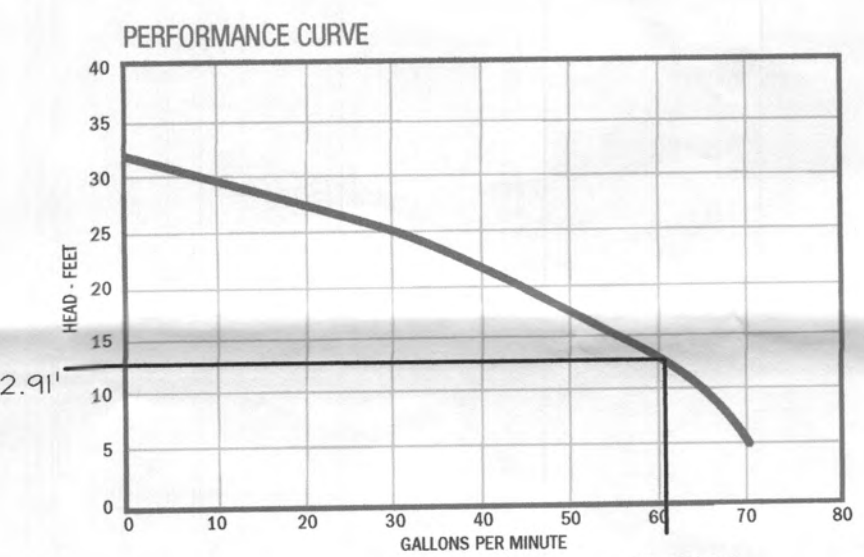
7081 PINDELL SCHOOL ROAD
FULTON, MARYLAND 20759
PARCEL 193, MAP 41, 1.04 ACRES
PLAT 6/76, PLAT OF HOME MILTON SIMONS
SUBDIVISION, DISTRICT 5
ONSITE SEWAGE DISPOSAL
SYSTEM DESIGN PLAN





PROP. SEPTIC TANK
C.R. SEMLER INC. 1,500 GALLON, TOP SEAM, TWO-COMPARTMENT SEPTIC TANK OR APPROVED EQUIVALENT
PROFILE VIEW (N.T.S.)

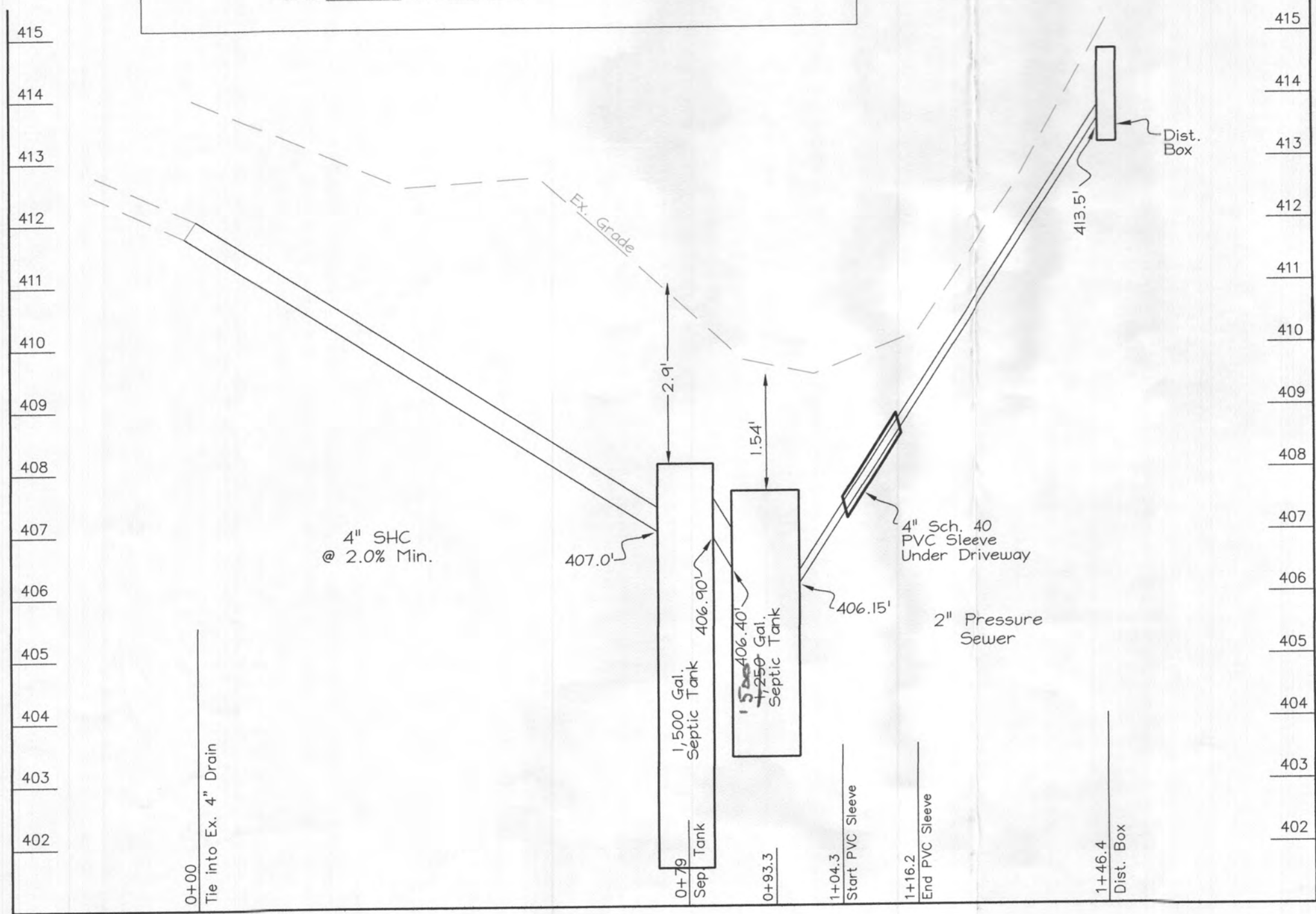
EFFLUENT PUMPS
EPF30 Performance Data
RPM: 3450 Discharge: 2" Solids: 3/4"



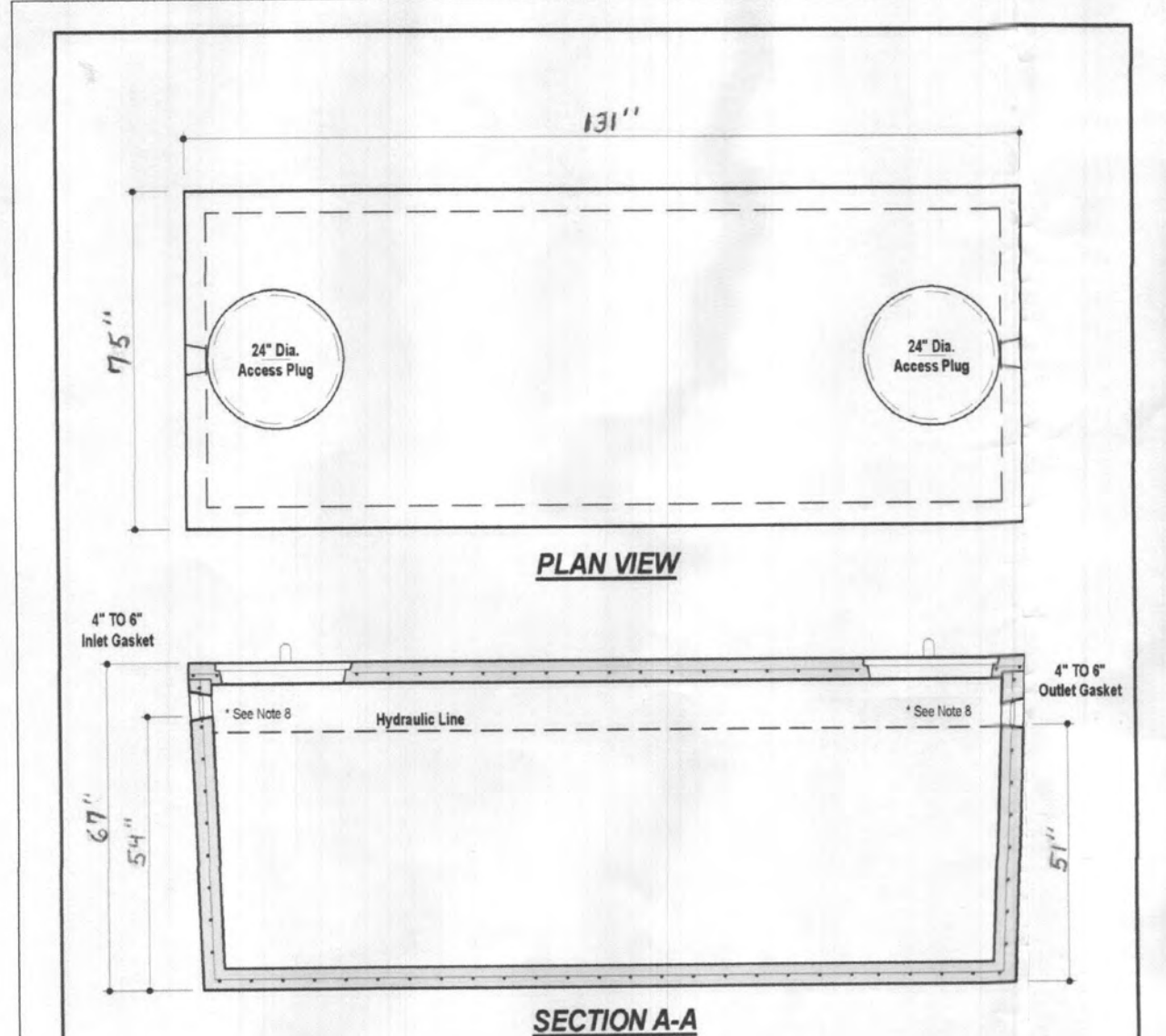
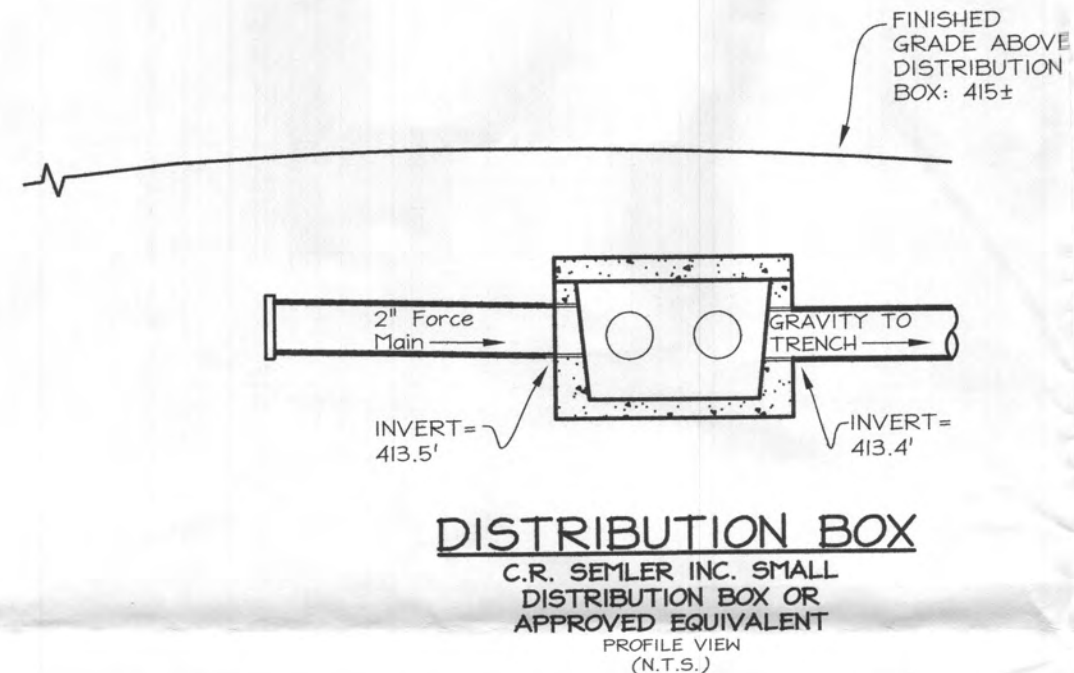
PERFORMANCE CURVE

Total Lift (feet)	0	5	10	15	20	25	30	32
GPM	75	70	63	56	44	31	9	0

Conditions of Service:
GPM: 61 GPM TDH: 12.91'



Septic System Profile
HOR.: 1"=20'
VERTICAL: 1"=5'

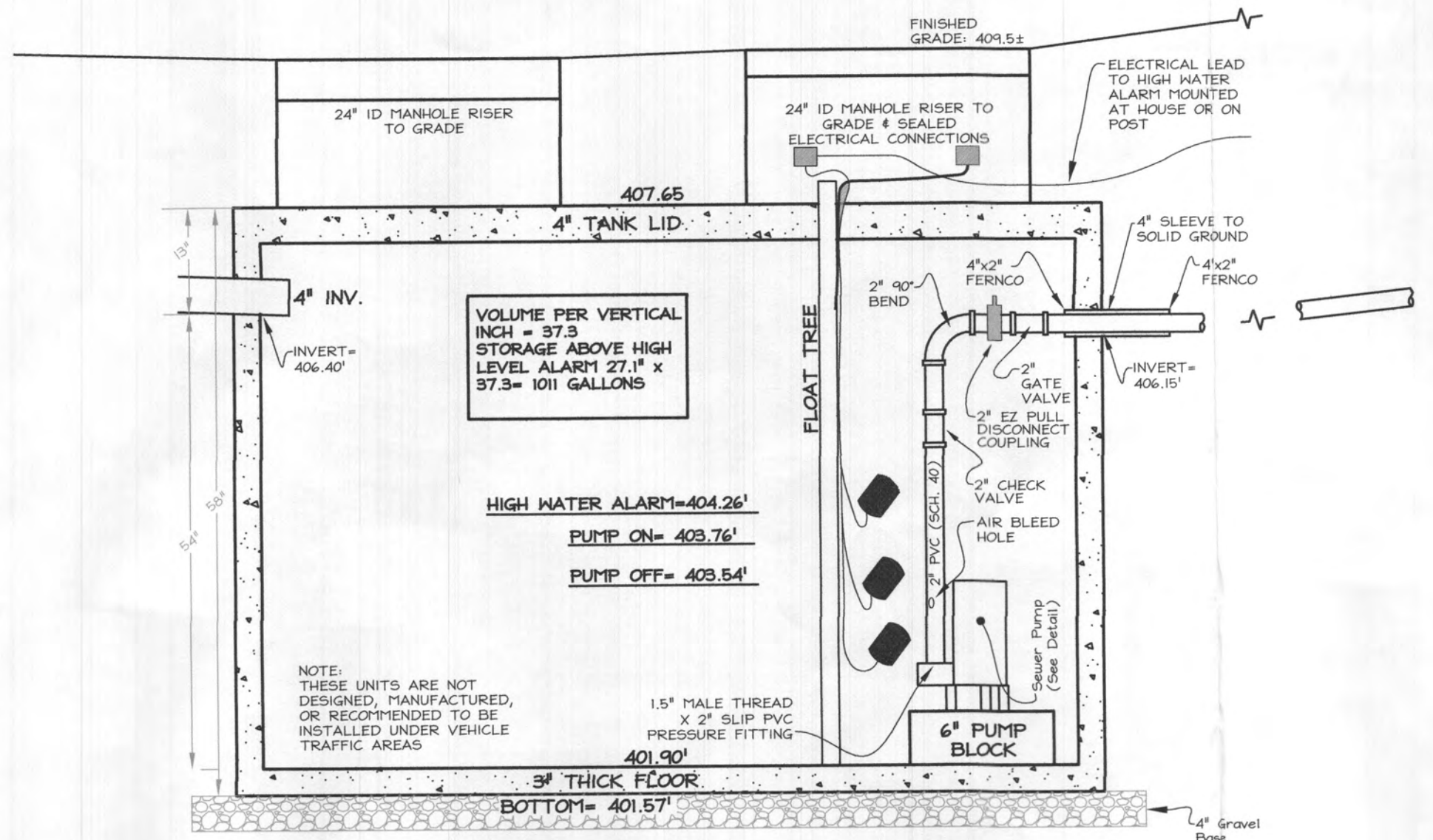


DESIGN DATA & GENERAL NOTES

- Concrete strength 7000 p.s.i. @ 28 days. Density = 150 pcf.
- Cement - Portland Type III per ASTM C 150-92.
- Admixtures and plasticizers per ASTM C 260-88 & C 494-92.
- Reinforcing per ASTM A195. Min. 1-1/2" cover.
- Top slab sealed with butyl rope mastic.
- 4" wall, base, & top thickness.
- Max 3" of cover.
- Depending on use of tank, Inlet & Outlet baffles may be required by code.

WEIGHT = 16,000 lbs.

1,500 GALLON SEPTIC/PUMP TANK
1-Compartment
NON-TRAFFIC MAX 3 ft. OF COVER



Pump Chamber Storage Calculations with gravity flow into trenches

PUMP CHAMBER SPECIFICATIONS

Pump chamber volume (available for storage) =	1500	gallons
Pump chamber type (Enter "R" for rectangular or "C" for circular) =	R	
L - Interior tank length =	125.0	inches
W - Interior tank width =	65.0	inches
A - Cross-sectional area (For rectangular chamber: L X W) =	8125	sq. inches
H - Interior tank height (height to inlet unless otherwise approved) =	54.0	inches
Pr - Pump riser height =	6	inches

SITE INFORMATION/VOLUME CALCULATIONS

Q - System design flow =	600	gpd
N - Number of dosages/day =	6	dosages/day
D - Dose volume = Q / number of doses per day =	100	gallons
Elevation of inside bottom (floor) of pump chamber =	401.90	feet
Pump height =	13.63	inches
Lf - Length of force main =	93	feet
Dp - Inside diameter of force main which will drain back to the pump chamber =	2.06	inches
Volume of effluent per 100 linear feet of pipe draining back =	2.31	gallons
Length of pipe which will drain back to the pump chamber =	93	feet
Vp - Volume of effluent which will drain back to the pump chamber =	2	gallons
Vc - Volume required per pump cycle = Vd + Vp =	102	gallons
Ez - Elevation of invert at distribution box or crest of force main =	411.96	feet

FLOAT SETTINGS

Pump off float setting (set so that pump remains submerged) =	19.0	inches
Es - Pump off float setting equates to an elevation of	403.54	feet
Distance req'd. bn on and off floats = (Vc X 231 cubic inches per gallon) / A =	2.7	inches
Pump on float setting = off float setting + distance bn on and off floats =	22.4	inches
Pump on float setting equates to an elevation of	403.76	feet
Ah - High water alarm setting = pump on float setting + 4.5 inches	26.9	inches
High water alarm setting equates to an elevation of	404.26	feet

STORAGE/PUMP REQUIREMENTS

Height of storage remaining above high water alarm = H - Ah =	27.1	inches
Height of storage above high water alarm required for ONE DAY'S storage =	18.1	inches
Height of storage above high water alarm required for a HALF DAY'S storage =	8.0	inches
Elevation difference to be overcome by pump = Ez - Es =	8.4	feet
Friction loss associated with force main = $1.49 \times 10^{-5} \times (1000)^2 \times (1.49)^2 \times (1.49)^2 \times (1.49)^2$	0.1	feet
Friction loss resulting from fittings =	38.30	feet
Pump flow =	61.00	gpm
Pump run time = Vd/pump flow =	1.67	minutes
Flow velocity = pump flow / (A X 144) (Inside diameter of force main / 12 / 12) X 3.14159	1.01	ft/s
Minimum horsepower required (assumes 2 ft. distal end head and 0.4 efficiency) ** =	0.33	horsepower

** = (Pump flow X Elevation difference + friction loss + 2 ft. distal head X 1.49368) X 0.4 / 1714

0.138918
519.97417

Checklist:

- [] Off float setting does not keep pump submerged
- [] Configuration is acceptable with a single pump
- [] Configuration is acceptable despite pumps only
- [] Configuration does not provide adequate storage above the high water alarm

DESIGN FLOW

Design flow= 600 gal/day (4 bedroom house)	
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TOTAL DESIGN HEAD AND PUMP SPECIFICATIONS

Determine TOTAL DESIGN HEAD:	
Static Head= 9.96	(relative elevation of pump off float to invert out of distribution box)
PVC Pipe Fittings	No. of Fittings
2" PVC Pipe	n/a
Check Valve	1
90 deg. Bend (2")	1
Gate Valve	1
45 deg. Bend (2")	4
Equiv. Pipe Length	93
Total Length	93 ft
Friction Loss	14 ft
Friction Head	7 ft
Friction Loss	1.3 ft
Friction Head	16 ft
Total Design Head =	131.3

Specify Flow (Per Pump) = 61
Friction Loss per 100 ft (2" PVC) (table 4.4) = 2.25
Friction Head = 2.95 ft (pipe length from above and apply friction loss factor from table 4.4)
Total Design Head = 12.91 ft (static head + friction head)

DETERMINE THE PUMP REQUIREMENTS:
Effluent must be capable of providing 61 gal/min 12.91 ft. of head
Use the following pump model: EPF30 Series Ashland Pump

CHECK CYCLE TIME
Height from "pump off" to "pump on" = 2.7" with 1,500 gallon pump chamber
Pump Cycle Time: 1.67 min OK

CHECK PUMP CHAMBER SIZE
Determine the PUMP DOSE: Pump Dose= 102 gal.
Determine the REQUIRED PUMP CHAMBER SIZE: One day storage capacity + one dose= 702 gal. OK

Approved Septic System Plan
Howard County Health Department
Hank Oswald 8/31/23
Signature Date

7081 PINDELL SCHOOL ROAD
FULTON, MARYLAND 20759
PARCEL 193, MAP 41, 1.04 ACRES
PLAT 6/76, PLAT OF HOME MILTON SIMONS
SUBDIVISION, DISTRICT 5
ONSITE SEWAGE DISPOSAL
SYSTEM DESIGN PLAN

OWNERS:
JUSTIN MAYS
7081 PINDELL SCHOOL ROAD
FULTON, MD 20759
JUSTIN.C.MAYS@GMAIL.COM

- 1) THIS PROPERTY IS ZONED RR-DCO.
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- 13) EXISTING WELL (TAG# 10-07-0226) HAS BEEN FIELD LOCATED AND ACCURATELY SHOWN.
- 14) PROPOSED REVISION #04-04-04 TO MODIFY THE STEEP SLOPE OFFSET FROM 25 FEET TO 5 FEET, WITH SUPPORTING JUSTIFICATION, WAS SUBMITTED AND APPROVED ON 08/07/17 BY 1, 2, 3.

SYMBOL	SOIL	HYDRIC	K-FACTOR	ERODIBLE	GROUP
GgC	Glenelg Loam, 0%-15% Slopes	NO	0.24	NO	B
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SEWAGE DISPOSAL AREA

SOIL BOUNDARY

EX. 2' CONTOUR

EX. 10' CONTOUR

WELL (EX. OR PROP.)

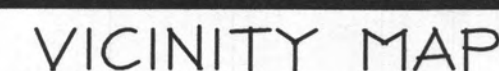
BUILDING RESTRICTION LINE

EX. SPOT ELEVATION

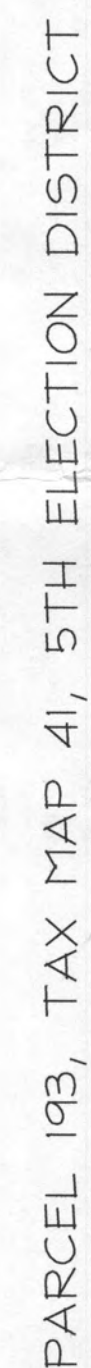
FAILED PERC TEST

PASSED PERC TEST

EX STEEP SLOPES



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			JWW	JWW
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			1" = 20'	JWW



7081 PINDELL SCHOOL RD

FULTON, HOWARD COUNTY, MARYLAND

PERCOLATION CERT. PLAN

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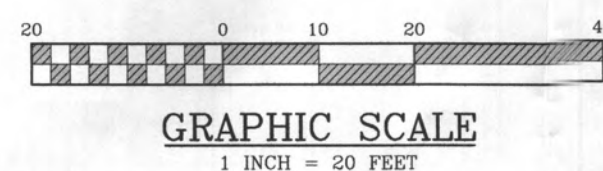
1 OF 1

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS

For Joel G. Chen 7/14/73
COUNTY HEALTH OFFICER H.O. gwr DATE

PERCOLATION CERTIFICATION:
CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME
OR UNDER MY DIRECT SUPERVISION, AND ARE CORRECT, TO THE BEST OF MY KNOWLEDGE AND
BELIEF.


JAMES W. WITMER
PROFESSIONAL LAND SURVEYOR, MD REG. NO. 21931



OWNERS:

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FULTON, MD 20759
JUSTIN.C.MAYS@GMAIL.COM

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PARCEL 193, MAP 41, 1.04 ACRES
PLAT 6/76, PLAT OF HOME MILTON
SIMONS SUBDIVISION, DISTRICT 5
PERCOLATION CERT. PLAN

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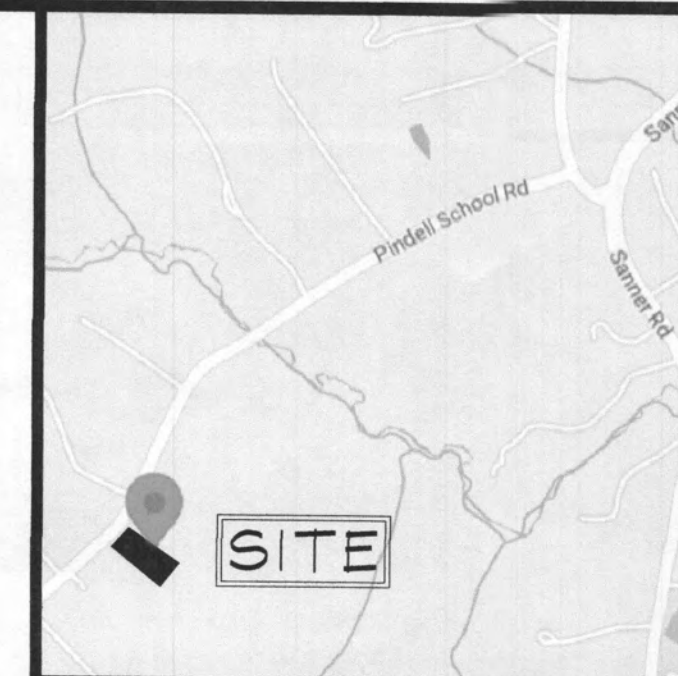
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The diagram shows a cross-section of a road and its various boundaries and features. From top to bottom, the layers are:

- EX. PROP. LINE**: The topmost horizontal line.
- EX. FENCE**: A horizontal line with short vertical tick marks below it.
- PROP. DRIVEWAY**: A horizontal line with a dashed line below it.
- SEWAGE DISPOSAL AREA**: A rectangular area with diagonal hatching.
- SOIL BOUNDARY**: A horizontal dashed line.
- EX. 2' CONTOUR**: A horizontal line with a small circle (spot elevation) below it.
- EX. 10' CONTOUR**: A horizontal line with a larger circle (spot elevation) below it.
- WELL (EX. OR PROP.)**: A vertical line with a circle at the bottom.
- BUILDING RESTRICTION LINE**: A horizontal line with the label "XX' BKL" below it.
- EX. SPOT ELEVATION**: A horizontal line with the value "457.04" below it.
- FAILED PERC TEST**: A solid black circle.
- PASSED PERC TEST**: An open circle.
- EX STEEP SLOPES**: A thick, solid black horizontal bar at the bottom.

Labels on the left side of the diagram include "GnB" and "GmA" next to the soil boundary line.



VICINITY MAP

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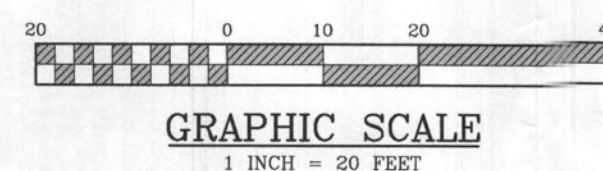


1 OF 1

For William J. Davis 3/14/23
COUNTY HEALTH OFFICER DATE

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OR UNDER MY DIRECT SUPERVISION, AND ARE CORRECT, TO THE BEST OF MY KNOWLEDGE AND
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 5/10/23
JAMES W. WITMER DATE
PROFESSIONAL LAND SURVEYOR, MD REG. NO. 21931



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PARCEL 193, MAP 41, 1.04 ACRES
PLAT 6/76, PLAT OF HOME MILTON
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PERCOLATION CERT. PLAN