	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 D	DATE: 10/07/2022 ON	SITE SEWAGE DISPOSA	L SYSTEM	P 572195			
APPROVAL D	DATE: 3/15/2023	PERMIT: CONST	RUCTION	Α			
		crest Court, Brookeville, MD 20	0833				
SUBDIVISION	Rivercrest RS LT 1 BU	UICE	LOT: <u>4</u> TAX ID:	04-370597			
CONTRACTO	R: Hatfield's Equipme	nt	EMAIL:				
CONTRACTOR	ADDRESS: PO Box 519,	Annapolis Junction, MD 2070	L P	HONE: (301) 490 - 4289			
PROPERTY O	WNER: Wolfe, Edward	Charles JR; Wolfe, Michelle Lynn	EMAIL:				
OWNER ADDR	ESS: 4109 Briggs Chane	ey Road, Beltsville, MD 20705	РНОМ	NE:			
SEPTIC TANK SIZE (GALLONS): 2000 g TANK MANUFACTURER: Backriver or Equivalent							
PUMP MODEL	Goulds WE07H	PUMP SIZE 3/4 HP		CITY: 2000			
DISTRIBUTIO	N SYSTEM: 🛛 GRAV		BEDROOMS: 5	APPLICATION RATE: 1.2			
	LINEAR FEET REQUIRED:	58'	INLET	DEPTH: <b>2'</b>			
TRENCHES:	TRENCH WIDTH:	3'	MAXIMUM BOTTOM	DEPTH: <b>5'</b>			
	MINIMUM SPACE BETWEEN TRENCHES:		FECTIVE AREA BEGINNING	DEPTH· <b>4'</b>			
		N. SEWAGE DISPOSAL AREA AND T					
LOCATION:		E-CONSTRUCTION INSPECTION.					
	Install 3 x 58' Trenches						
NOTES:							
ISSUED BY:	Cabahug 001997	ISSUE DATE:	10/13/2022 EXPIRA	TION DATE: 10/13/2023			
		A PRE-CONSTRUCTION INSPECTIO					
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.							
	ERTIGHT TANKS REQUIRED ARTS OF SEPTIC SYSTEM SH	HALL BE AT LEAST 100 FEET DOWN	GRADIENT FROM ANY WA	TER 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

E ELECTRICAL PERMIT ISSUED E 22.00 b818

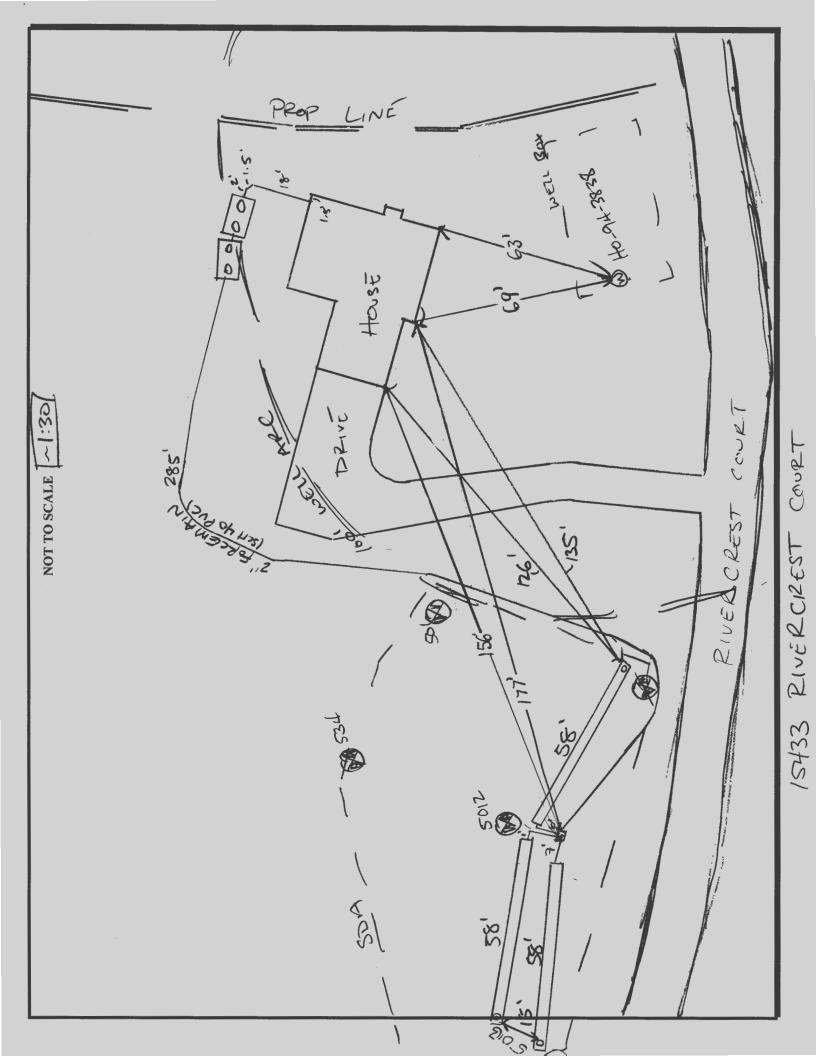
NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

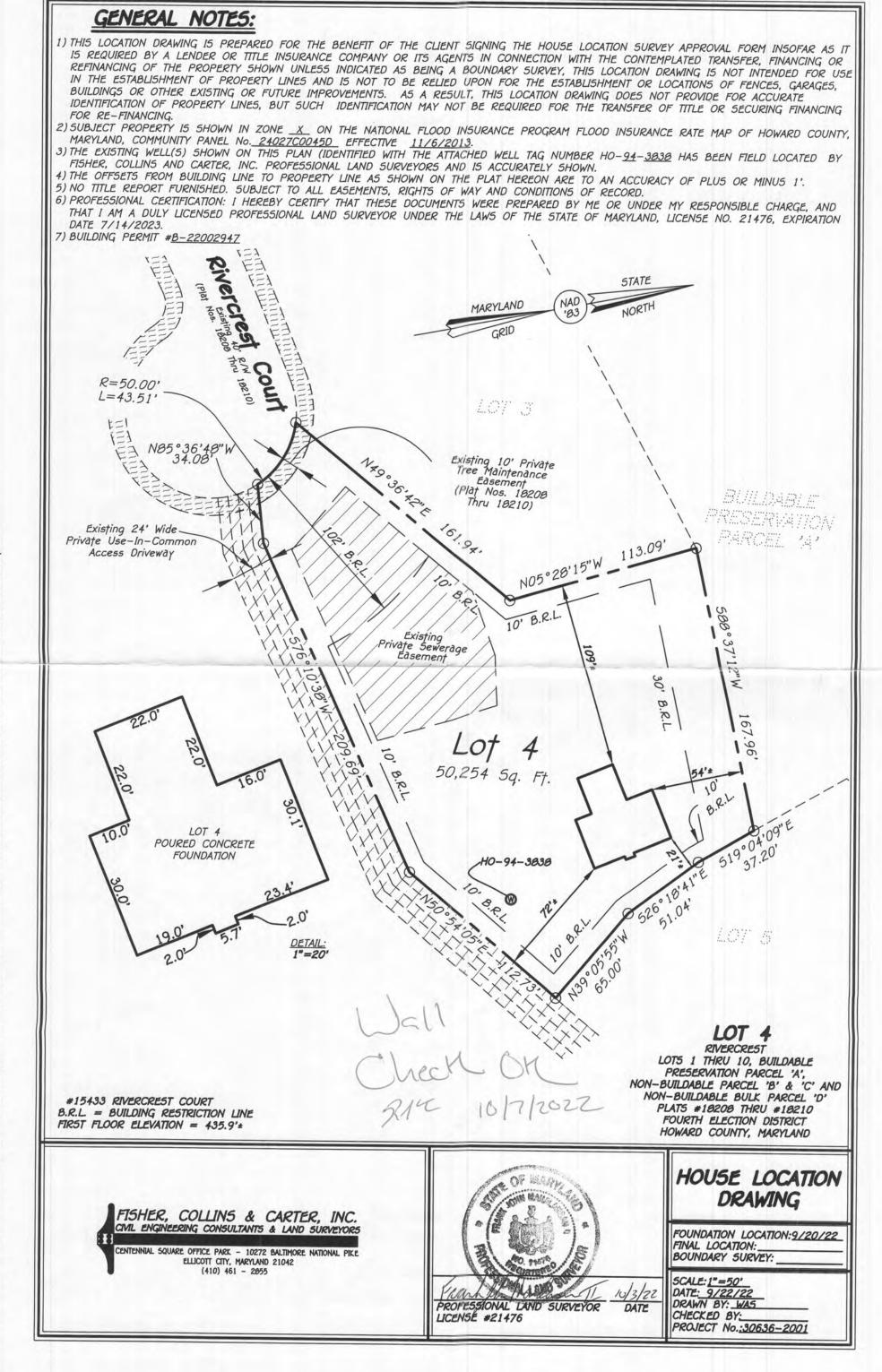
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

TRENCH/DRAINFIELD DATA NOT TO SCALE INLET BOTTOM WIDTH 3 L 1 NUMBER OF TRENCHES TOTAL LENGTH 171 ABSORPTION AREA S22 SF + DISTRIBUTION BOX LEVEL DISTRIBUTION BOX BAFFLE DISTRIBUTION BOX PORT MES SEPTIC TANK DATA SEPTIC TANKI LEVEL 453 MANUFACTURER BARALUN CAPACITY 1000 \_\_\_GAL 107 SEAM LOC TANK LID DEPTH 1' 1 BAFFLES **BAFFLE FILTER** MANHOLE LOC FLON 6" PORT LOC WATERTIGHT TEST SLOTTED DATE ON LID holl PUMP/SEPTIC TANK LEVEL MANUFACTURER BABY LON 2000 CAPACITY GAL TOY SEAM LOC TANK LID DEPTH BAFFLES **BAFFLE FILTER** MANHOLELOC FLONT/BAC 6" PORT LOC WATERTIGHT TEST SLOTTED DATE ON LID **ROAD NAME** PRE-CONSTRUCTION: TRENCH CONTORS. LEVEL FROM lowest CONFILMEN 113 1 ZOTZ CUTER INSTALLATION: OMPLETI 10/21 022 Box SET. Di 3/15/2023 - And POSt. on its own Alerm 11/1m outside mu NUCR The Melsineo SULCOSSEN 13 5 60X 1'ump SULCESSION !!! Shepsra Page FINAL INSPECTOR \_\_\_\_\_ DATE OF APPROVAL 3/15/2023



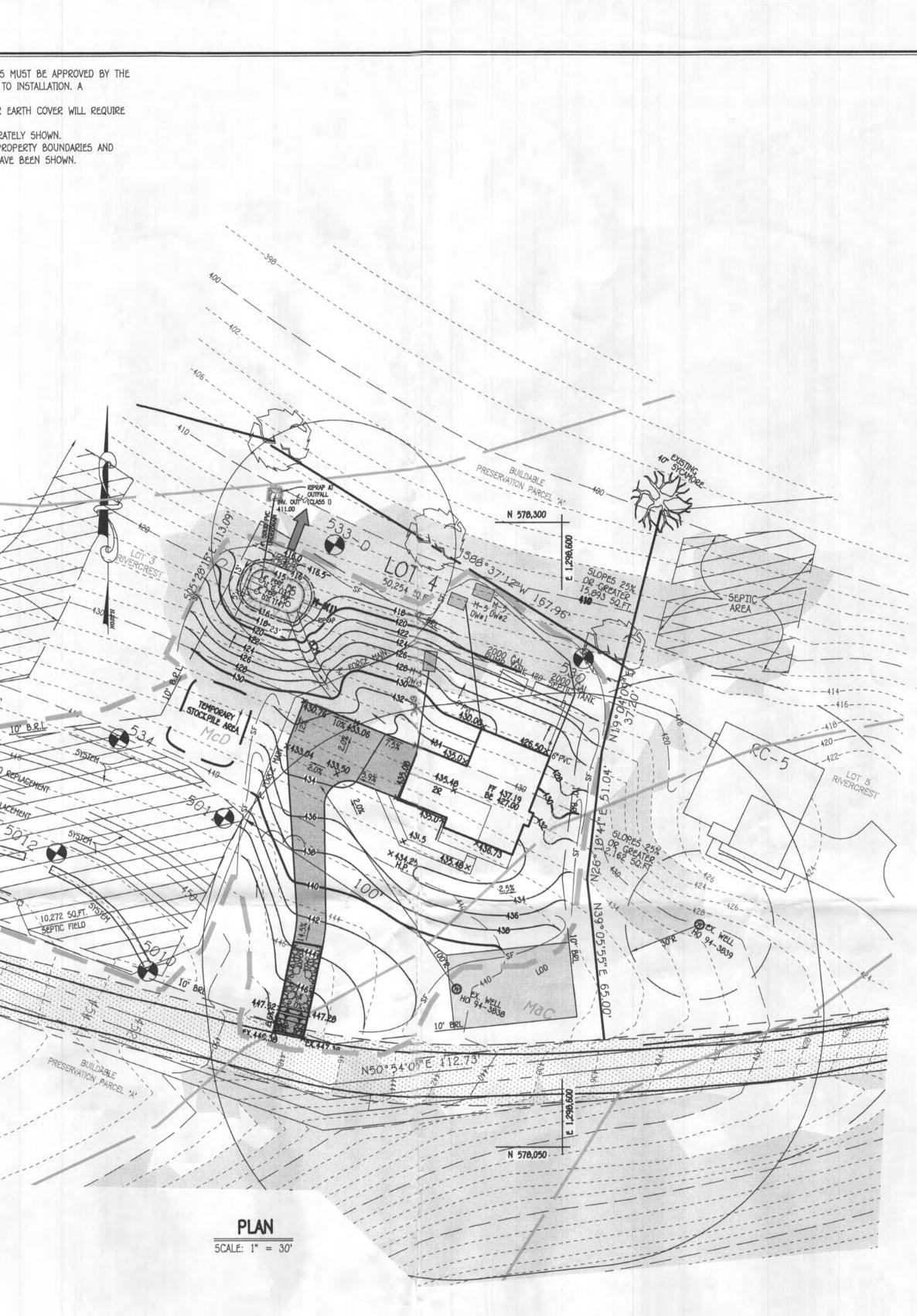


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וחו ו הרחחר אתה אתו ווובבווואוובנוואו אין האשר הי אשר ויחור והיו אה אין ארחים ו וחו

SOILS LEGEND			LOCATIONS OR DEPTHS TO ANY COMPONENTS M IOWARD COUNTY HEALTH DEPARTMENT PRIOR TO IAY BE REQUIRED.
SOIL NAME	CLASS "K" VALUE	2. THE MAXIMUM EARTH A HEAVY LOAD BEARI	COVER OVER THE TANK 15 3 FEET. GREATER EA
aC Manor Ioam, 8 to 15 percent slopes cD Manor Ioam, 15 to 25 percent slopes, very rocky	B .32 B .28	4. ALL WELLS AND SEPT	338 HAS BEEN FIELD LOCATED AND IS ACCURATE TC SYSTEMS LOCATED WITHIN 100' OF THE PROF
25:		200' DOWN GRADIENT	OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE
tydric soils and/or contains hydric inclusions 1ay contain hydric inclusions			
Generally only within 100-year floodplain areas			
INITIAL SYSTEM			
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS		*	
LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 G APPLICATION RATE = $1.2$	PD		
EFFECTIVE SIDEWALL BEGINS AT 4 FEET TRENCH DEPTH = 5 FEET			
TRENCH WIDTH $(W) = 3$ FEET EFFECTIVE DEPTH $(D) = 1$ FEET			
SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF COEFFICIENT OF REDUCTION OF TRENCH LENGTH =			SEPTIC
(W+2)/(W+1+2D)=(3+2)/(3+1+(2x1))=0.833 TRENCH LENGTH = 208.33 5F x 0.833 = 173.61 FEET			Activity
(USE 3 TRENCHES AT 57.87 L.F.) TRENCH SPACING = $2D+W = ((2*1) + 3) = 5$ ' USE 10'			
15T REPLACEMENT SYSTEM			
5 BEDROOMS < 750			
OADING RATE = $4$ BEDROOMS X 150 GPD/BEDROOM = 600 GI PPLICATION RATE = 1.2	PD		N49° 36' 42"E 161:94
FFECTIVE SIDEWALL BEGINS AT 4 FEET RENCH DEPTH = 5 FEET			Vare the
TRENCH WIDTH (W) = 3 FEET EFFECTIVE DEPTH (D) = 1 FEET		R=50 cz	1998
SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF COEFFICIENT OF REDUCTION OF TRENCH LENGTH =	01.	R=50.00, L=43.52,	IST REPLAC
(W+2)/(W+1+2D)=(3+2)/(3+1+(2x1))=0.833 TRENCH LENGTH = 208.33 SF x 0.833 = 173.61 FEET	RIVERCREST	Co. Kerst	
(USE 3 TRENCHES AT 57.87 L.F.) TRENCH SPACING = $2D+W = ((2*1) + 3) = 5'$ USE 10'	PUBLIC ACCESS PLAN	COURT	36. 08, 18. E
			B. B. E
2ND REPLACEMENT SYSTEM			No. K
EWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 750	- int		N76° 10'38"E 200
EWAGE DISPOSAL SYSTEM DATA, DESIGN FOR <u>BEDROOMS</u> DADING RATE = $4$ BEDROOMS X 150 GPD/BEDROOM = 600 GPD PPLICATION RATE = 1.2	- int		N76° 10'38"E 209.69'
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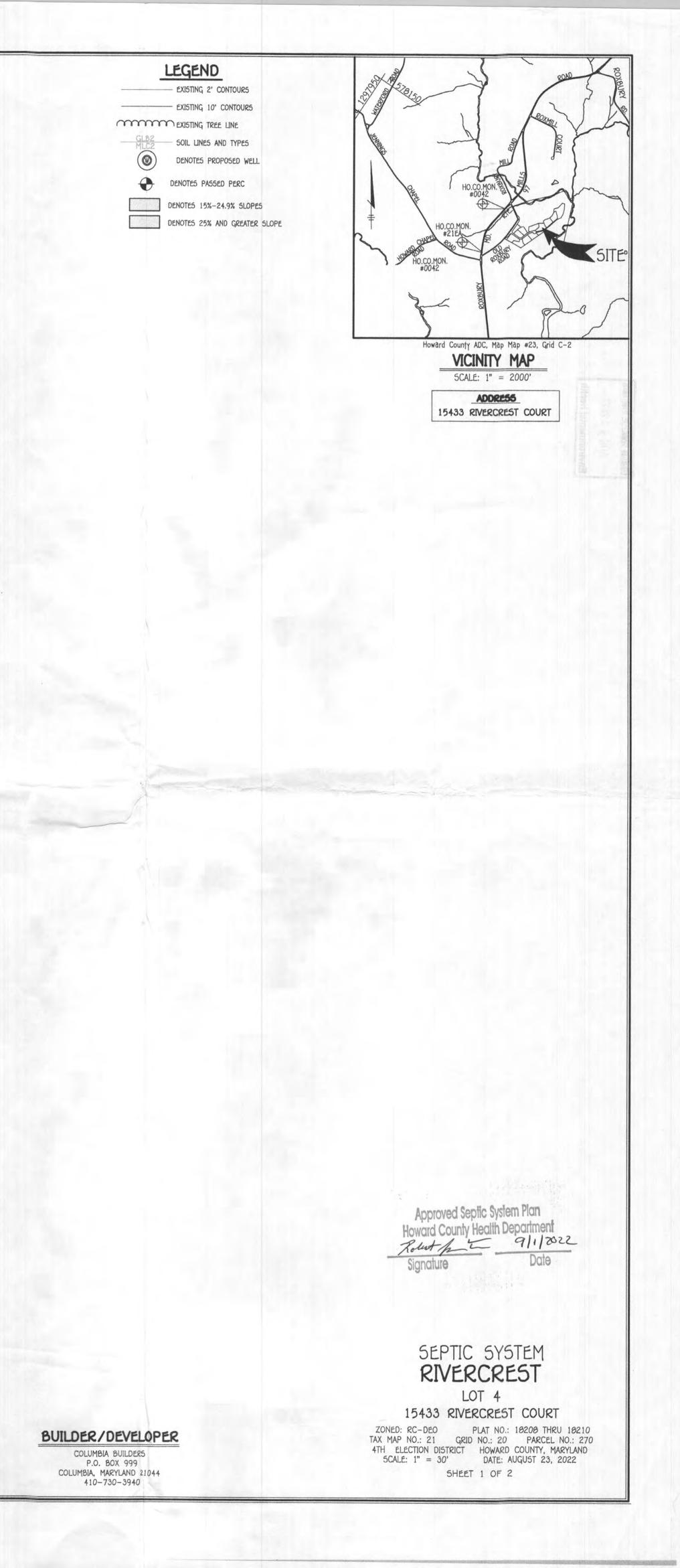


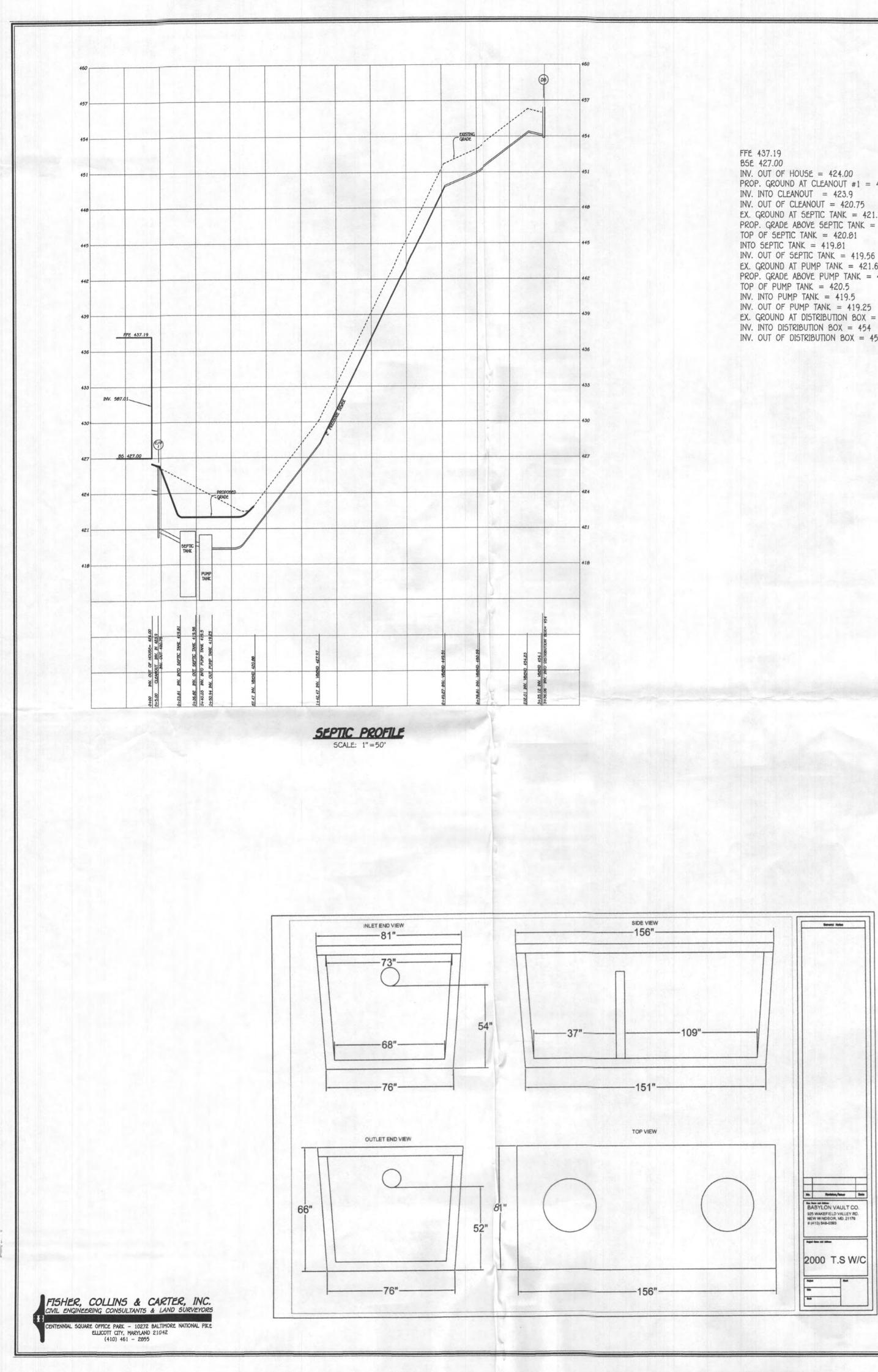
## PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS 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. 20740, EXPIRATION DATE: 02/22/2023.

all. Muni Signature Of Professional Engineer

8/23/22 DATE ROXBURY FARM, LLC C/O COLUMBIA DEVELOPERS LLC 6420 AUTUMN SKY WAY COLUMBIA, MARYLAND 21044 410-730-3940





PROP. GROUND AT CLEANOUT #1 = 426.3 EX. GROUND AT SEPTIC TANK = 421.7 PROP. GRADE ABOVE SEPTIC TANK = 422 EX. GROUND AT PUMP TANK = 421.6 PROP. GRADE ABOVE PUMP TANK = 422.0 EX. GROUND AT DISTRIBUTION BOX = 456 INV. OUT OF DISTRIBUTION BOX = 453.9

> PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS 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. 20748, EXPIRATION DATE: 02/22/2023.



Mun Signature Of Professional Engineer

Xac /

8/23/22 DATE

# **GOULDS PUMPS**

Wastewater

#### • ½ - 1 HP models have NEMA three prong grounding plugs.

- 11/2 HP and larger units have bare lead cord ends. Three phase (60 Hz): Class 10 overload protection must be provided in
- separately ordered starter unit. · STOW power cords all have bare lead cord ends.
- Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage
- when fully submerged. Bearings: Upper and lower heavy duty ball bearing construction.
- Power Cable: Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and
- to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
- O-ring: Assures positive sealing against contaminants and oil leakage. AGENCY LISTINGS
- Tested to UL 778 and CSA 22.2 108 Stanlards By Canadian Standards Association File #LR38549 Goulds Pumps is ISO 9001 Registered.
- SJTOW or STOW severe duty oil and water resistant

	*.		1750	
	T	GPM		
	LSF			
LN	N			
	1		X	
	1V			
	N	N		
V	-	1	XY	
(M)	(1)			
50 60 70	80 90	100 110 1	20 130 140	150 160 GPM

10 15 20 25 30 35 m<sup>3</sup>/hr

- 39 GPM

**WITT** 

APPLICATIONS Specifically designed for the following uses:

Solids handling capabilities: ¾" maximum.

SPECIFICATIONS

• Discharge size: 2" NPT.

Capacities: up to 140 GPM.

• Total heads: up to 128 feet TDH.

Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industry, Effluent Systems

Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.

See order numbers on reverse side for specific HP voltage, phase and RPM's available.

MOTORS Fully submerged in high-grade turbine oil for lubrica-tion and efficient heat transfer.

Capacitor start motors for maximum starting torque.

■ Class B insulation on 1/2 - 11/2 HP models.

Class F insulation on 2 HP models.

· Built-in overload with automatic reset.

0 10 20 3

0 5

PUMP ALARMS / INFORMATION A PUMP OFF : 416.92

C HIGH WATER ALARM : 417.75

D TOP OF ACCESS COVER : 422.0

B PUMP ON : 417.25

E TOP OF TANK : 420.5 F BOTTOM OF TANK : 414.75

12-2 UF CABLES

2.47'

1078 GAL

HE 8

ACCESS COVER.

TO ALARM 1.....

....

T WEEP ALARM SWITCH -

3.4" DOSE 150 GAL

Single phase (60 Hz):

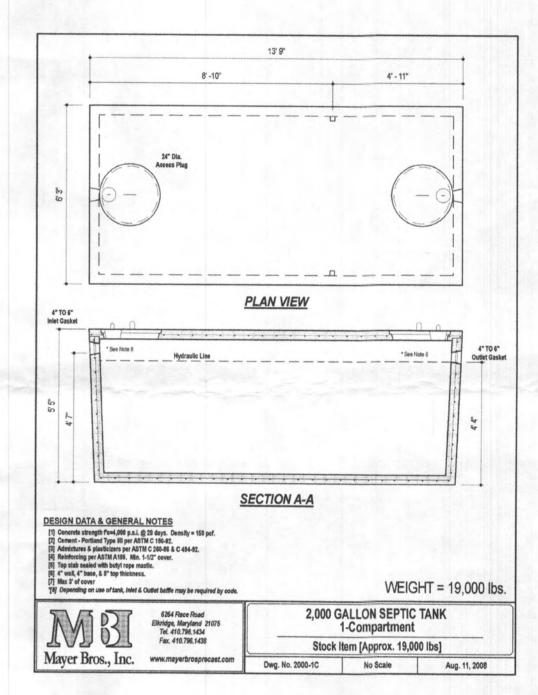
power cords.

43.53 FT OF HEAD

G DISCHARGE OUT OF TANK : 419.25 H INVERT INTO TANK : 419.5 MOISTURE RESISTANT CONCECTORS D

1078 + 150 = 1228 GALLONS EMERGENCY STORAGE NOTE: THIS DETAIL IS TO BE USED FOR FLOAT CONFIGURATION ONLY - SEE DETAIL ABOVE FOR TANK DIMENSIONS AND ACTUAL LOCATION OF

NOTE: THIS DETAIL IS TO BE USED FOR FLOAT CONFIGURATION ONLY - SEE DETAIL ABOVE FOR TANK DIMENSIONS AND ACTUAL LOCATION OF ACCESS COVER.



### PUMP TANK DETAIL NOT TO SCALE

2" 5CH. 40 PVC = 285 LF 1 UNION @ 2 EQUIVALENT FEET = 2 LF 6 1/8 HB @ 4 EQUIVALENT FEET = 28 LF TOTAL LINEAR FEET OF 2" SCH. 40 PVC = 315 LF

DYNAMIC HEAD 315 LF X 2.05 FT PER 100 LF OF 2" PIPE = 6.45 FT OF FRICTION HEAD 315 LF X 2.05 FT PER 100 LF OF 2" PIPE = 2.33 FT OF FRICTION HEAD VERTICAL FROM PUMP OFF TO HIGH POINT IN PUMP CHAMBER = 2.33 FT OF FRICTION HEAD POINT IN SYSTEM TO HIGHEST ELEV OF SYSTEM = 34.75 FT (PUMP OUT IS THE HIGHEST POINT) TOTAL DYNAMIC HEAD = 43.53 FT

750 125 1/6 DESIGN FLOW (600/6=100) USE 150 GALLON DOSE (150 GALLON MINIMUM) DOSE: 1/6 DESIGN FLOW + VOLUME IN PIPE 100+47= 147 GAL (RUN TIME = 3.8 MIN (39 GPM X 3.8 = 150 GALLON DOSE)

PUMP NEEDS TO HANDLE 39 GPM AT 43.53 FT OF HEAD USE 3/4 HP (GOULDS MODEL WE07H PUMP)

## SEPTIC SYSTEM RIVERCREST LOT 4

15433 RIVERCREST COURT ZONED: RC-DEO PLAT NO.: 18208 THRU 18210 TAX MAP NO .: 21 GRID NO .: 20 PARCEL NO .: 270 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: 1" = 30' DATE: AUGUST 23, 2022 SHEET 2 OF 2