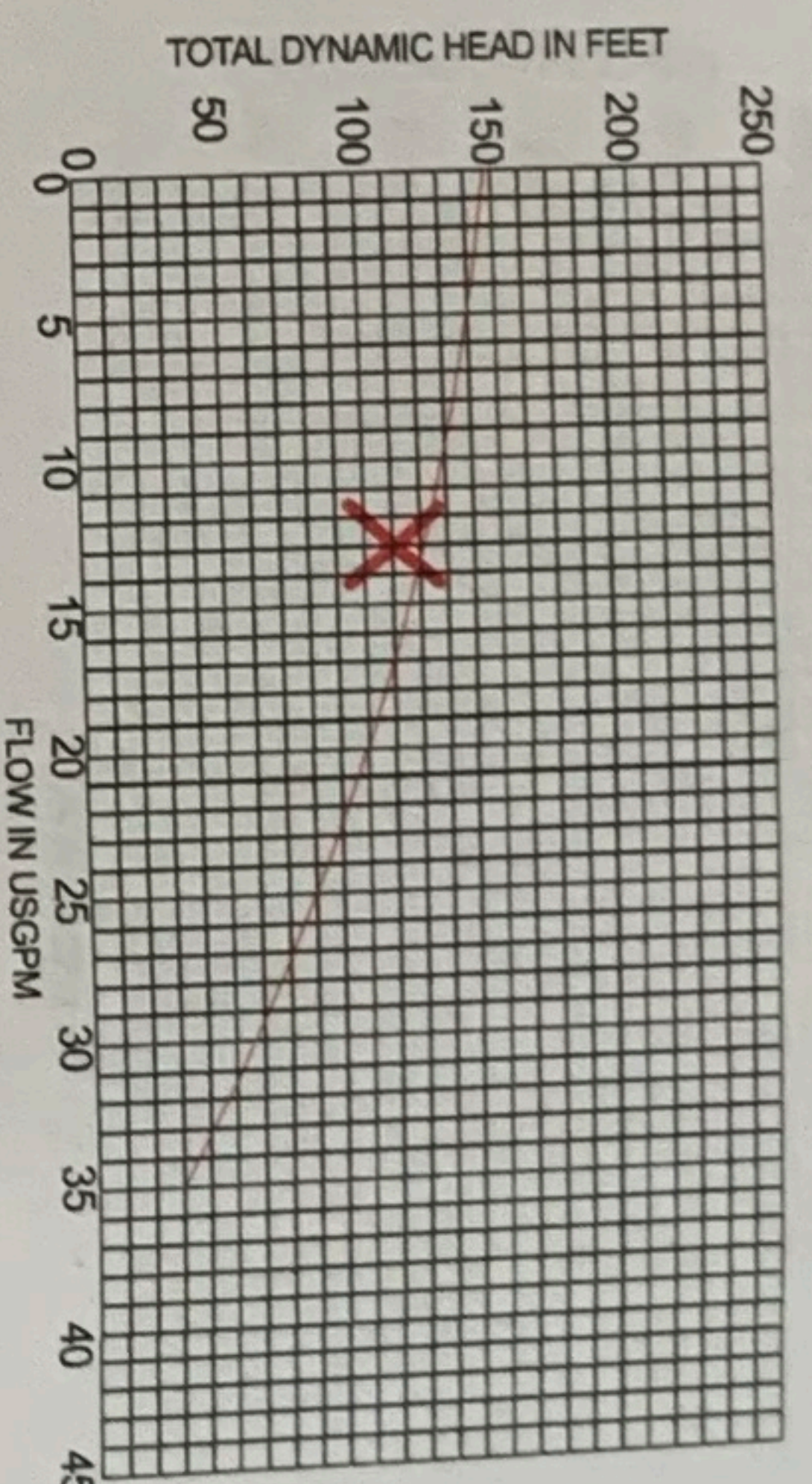
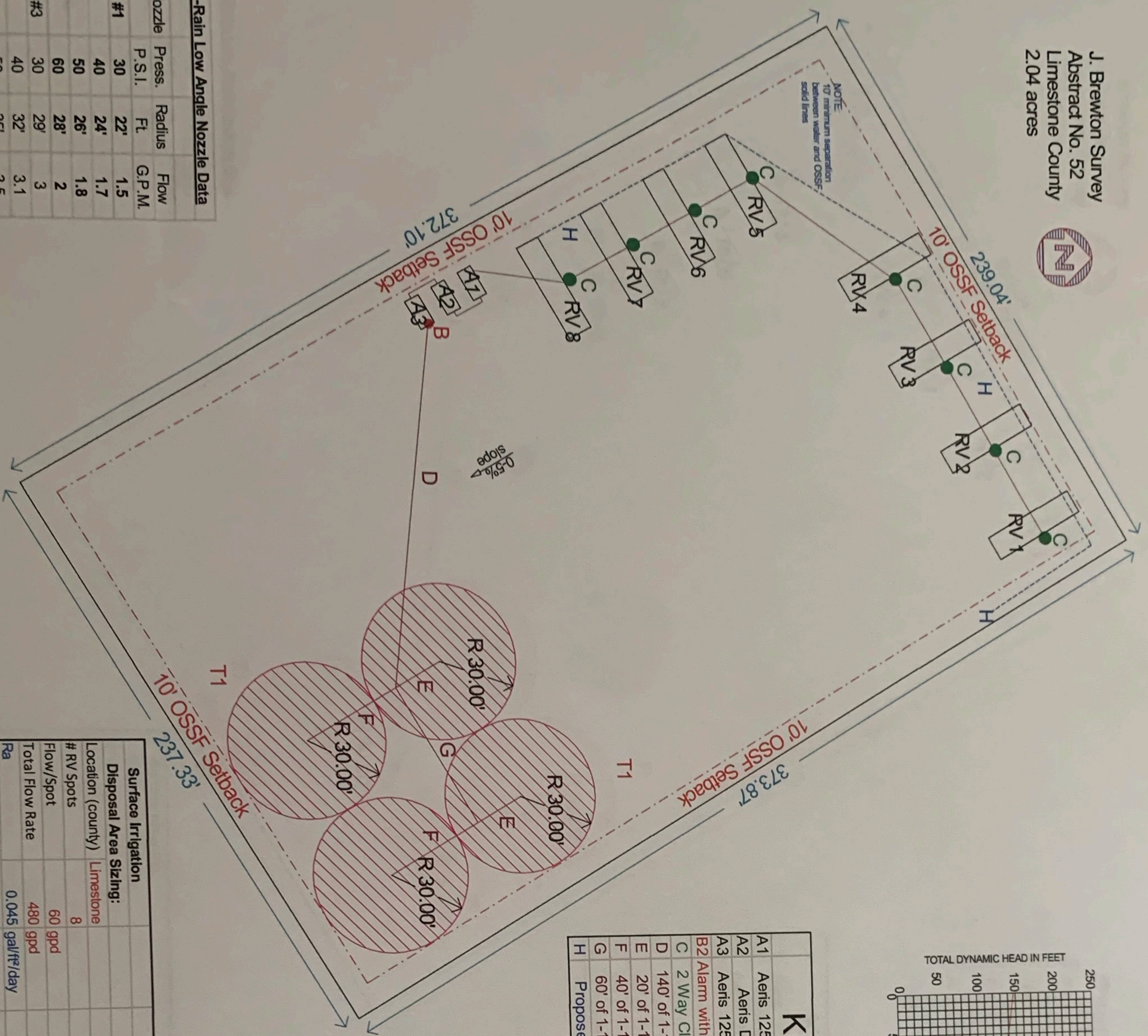
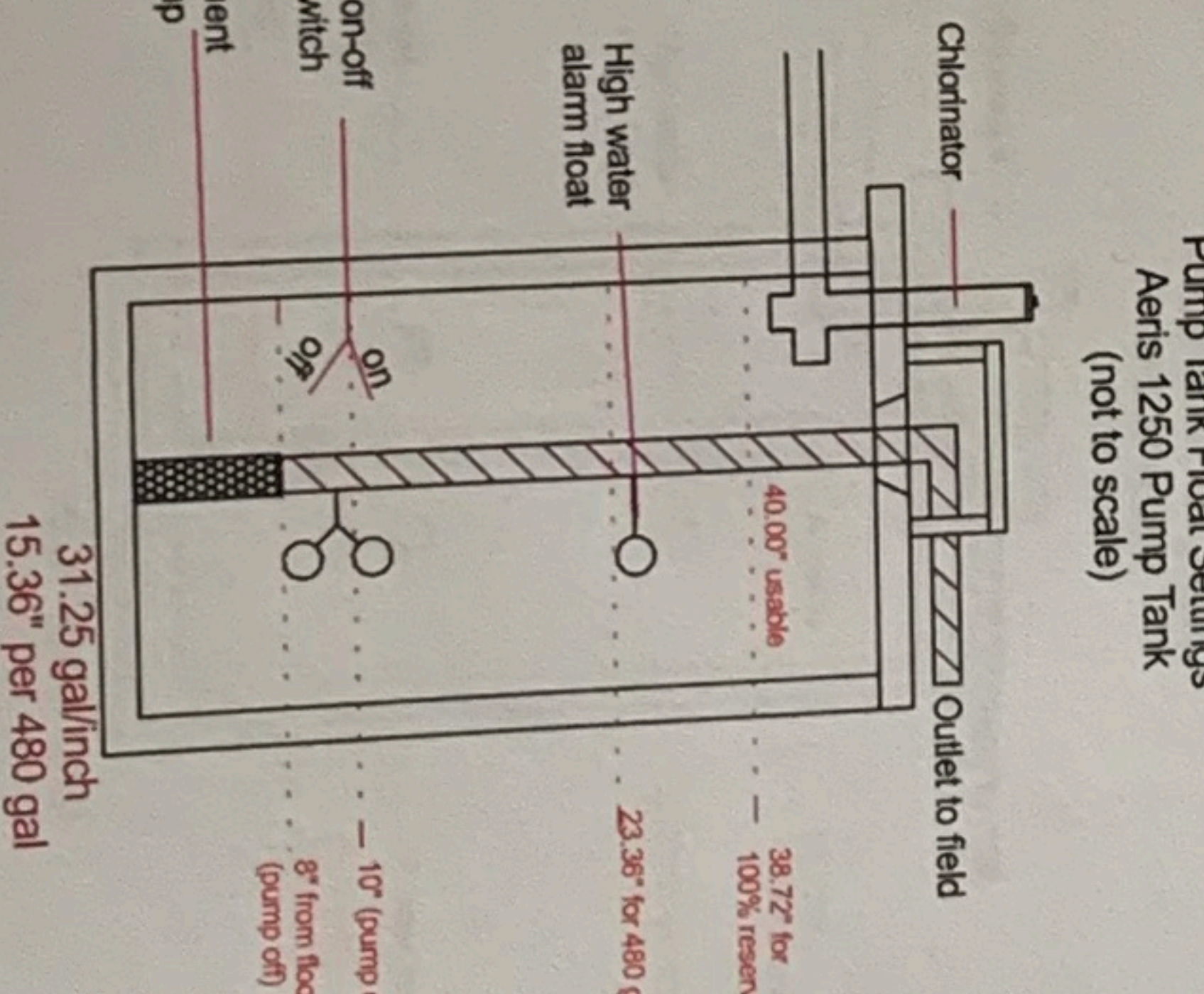


Stovall
105-7682

J. Brewton Survey
Abstract No. 52
Limestone County
2.04 acres



KEY	
A1	Aeris 1250 Trash Tank
A2	Aeris D-1100 ATTU
A3	Aeris 1250 Pump Tank
B2	Alarm with Sta-Rite Pump
C	2 Way Cleanout (30"x4")
D	140' of 1-1/2" purple pvc
E	20' of 1-1/2" purple pvc
F	40' of 1-1/2" purple pvc
G	60' of 1-1/2" purple pvc
H	Proposed Water Line



K-Rain Low Angle Nozzle Data				
Nozzle	Press. P.S.I.	Radius Ft.	Flow G.P.M.	
#1	30	22'	1.5	
40	40	24'	1.7	
50	50	26'	1.8	
60	60	28'	2	
#3	30	29'	3	
40	40	32'	3.1	
50	50	35'	3.5	
60	60	37'	3.8	
#4	30	31'	3.4	
40	40	34'	3.9	
50	50	37'	4.4	
60	60	38'	4.7	
40	40	38'	6.5	
50	50	40'	7.3	
60	60	42'	8	
70	70	44'	8.6	

Surface Irrigation		Pump Selection	
Disposal Area Sizing:	Limestone	# of Heads	4
Location (county):	Limestone	Nozzle Flow	3.1 gpm
# RV Spots	8	System Flow	12.4 GPM
Flow/Spot	60 gpd	Total discharge time	38.71 minutes
Total Flow Rate	480 gpd	System Pressure	40 psi
Flow/Spot Rate	0.045 gal/ft ² /day	Elevation Head	4 ft.
Total Area Reqd	10666.67 ft ²	Header Length*	240 ft. (longest run)*
		Friction Factor	2.33 psi/100'
		Friction Loss	12.92 ft. Hunter flow chart
		Pressure Head	92.44 ft head (psi x 2.311)
		Total Head	109.36 (farthest head)
		Effective Ra	0.042 gal/ft ² /day

General Notes:
System sizing of 480 gallons per day based on an RV park for 8 RV spots at 60 gpd each with water savings devices. An aerobic treatment plant will be used to treat the effluent, followed by a surface irrigation disposal method using low angle nozzles and spraying only at night. The disposal area must be seeded or sodded before utilizing the system. Cad drawing of aerobic plant unavailable, pump tank representation shown.

Site Information:
This design was based upon a site evaluation provided by Billy Hopson SE18596. See attached site evaluation form on permit. No flood plains or water wells noted on the provided plat. All known easements shown. Periodic sampling required.

System Components:
1250 Trash Tank, Aeris D1100 Class I Aerobic Treatment System, Aeris 1250 pump tank with Sta-Rite Dominator pump (or equivalent) and alarm. The pump is to be on separate circuit from alarms.

Chlorinator- on board (tablet or liquid), Alarm- on board- for aerator failure and high water control panel with onboard night timer to discharge between 1 and 5 am. A non-threaded sampling port will be installed to regulate system pressure @ 40 p.s.i. A check valve to be installed in effluent piping inside pump tank to prevent backflow. 1" Sch 40 PVC supply line (purple), (4) K-Rain rotors, see worksheet for radius, arc and flow requirements.

Additional Considerations:
This design proposal is intended to meet the current TCEQ guidelines. The installer is responsible for proper instruction regarding system operation and repair. An on-going maintenance contract is required during operating condition, the following guidelines must be adhered to during operation:

- Maintain chlorine in the system (owner's responsibility)
- Keep the field areas mowed and in good condition
- Maintain vegetation year round
- Do not place buildings or structures in spray area
- Do not use garbage disposals to dispose of kitchen waste
- Do not allow kitchen grease to enter the system
- Do not flush paper products not intended for septic use
- Do not use water softeners- can void warranty and cause damage to system components
- Be sure to pump out pretreatment tank every two to three years to avoid excessive sludge build up

If any problems persist, such as frequent high water alarms or surfacing septic water, call a licensed maintenance contractor for consultation or repair. The homeowner or builder is to be responsible for identifying all property lines, easements, wells and other related improvements either actual or proposed and verifying that the septic system installation does not violate any regulation or law. This design is intended to follow all current regulations as set forth by the T.C.E.Q. and local permitting authority, as should the installation and any future maintenance and/or repair procedures.

Drawing Details Page 1 of 1

Property Owner:
Jerrett Stovall
4202 FM 339 South
Groesbeck, TX. 76642

Drawing ID: Permitted Authority
Rhodes: Limestone Co.

Scale: 1"=50'
Date: 7/28/2022
Billy Hopson
RS4038