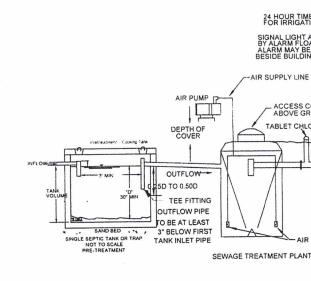
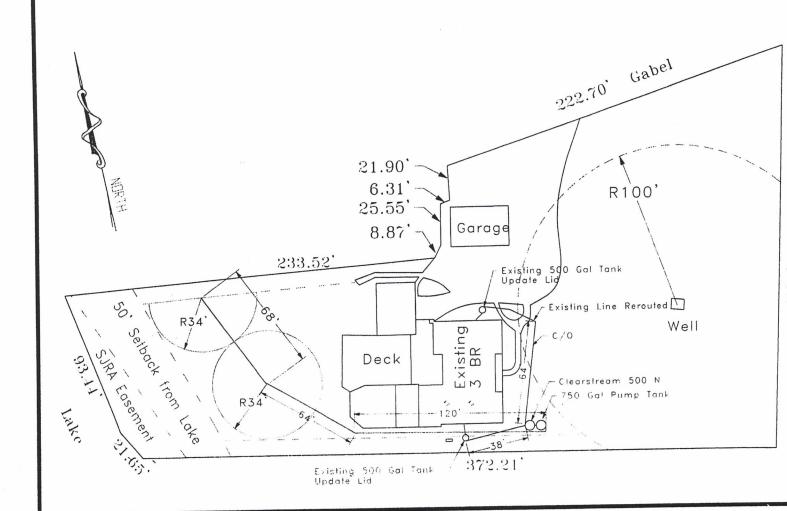
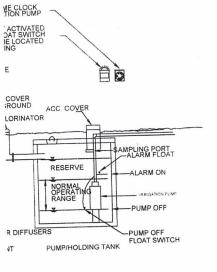
Number	Daily	With	Pump Tank	Loading	Area
of ·	Flow in	Low FLow	Req'd Active		Required
Bedrooms	Gallons	Devices	Capacity	Rate	Sq. Ft.
3	300	240	320	0.045	5333
Pump Tank Specs					
Height	Height	Inside	Inside	Volume	Volume
in	in	Diameter	Radius	in	in
Inches	Feet	in Inches	In Feet	Cubic Ft.	Gallons
65.5	5.46	59.5	2.48	105.40	788.36
Gallons	Pump	Pump	Dead	High Water	Active
Per	Off Level	On Level	Space .	Alarm on	Capacity
Inch	in inches	in inches	Gallons	in Inches	Gallons,
12.04	14	20	240.72	39.9	547.64
Required	Actual	Actual	Reserve	Normal -	Normal
Reserve	Reserve	Reserve	Percent of	Operating	Operating
in Gallons	in Gallons	in Inches	Daily Flow	Range (Gal)	Range (In)
80.00	308	26	128%	240.0	19.94

Sprinkler	Radius	Degree	Area
Head	in	of	Sq. Ft.
Number	Feet	Spray	Covered
1	34	360	3632
2	34	180	1816
Name and Address of the Owner, where the Owner, which is the Owne		Sub-Total	5448
		Overlap	0
		Total	5448







## DESIGN SUMMARY

Effluent from one 500 gallon tank will flow to a Clearstream 500 N aerobic treatment plant, through a Clearstream tablet chlorinator to a 750 gallon pump tank. A Clearstream P20, ½ HP pump discharges the "Class I" effluent to the surface through 2 Lowangle nozzle heads. Spray area shall be graded and if necessary, swales installed to provide positive drainage away from the spray area to prevent ponding or pooling. The land owner shall be responsible to have the area sodded with St. Augustine or Zoyzia arrasses unless native areas is established and overseed with a winter Pape areas for periods when other or pooling. The land owner shall be responsible to have the area sodded with St. Augustine or Zoyzia grasses unless native grass is established and overseed with a winter Rye grass for periods when other grasses are dormant. The maximum inlet pressure for sprinklers shall be 40 pounds per square inch. Low angle nozzles (15 degrees or less in trajectory) shall be used in the sprinklers to keep the spray stream low and reduce aerosols sprinkler operation shall be controlled by commercial irrigation timers set to spray between midnight and 5:00 a.m. Placement of the spray heads shall not be within ten (10) feet of trees in the direction of the spray as to impede the spray area. Equipment specified in this design may be substituted for equipment of equivalentspecifications. Reject water from reverse osmosis water treatment systems shall not be discharged into this system. Machinery heavier than residential lawn equipment shall not be operated in the area of this system. After inspection and approval from the licensing authority, no relocation of the sprinkler heads or their water supply lines will be permitted equipment shall not be operated in the area of this system. After inspection and approval from the licensing authority, no relocation of the sprinkler heads or their water supply lines will be permitted without prior approval of the licensing authority. Prior to any pool installation, approval from the permitting authority shall be required. Installation of a lawn sprinkler system overlapping the on-site surface disposal field will violate the integrity of this design. All Construction methods and materials shall be in accordance with state and local codes.

## SPRAYFIELD CALCULATIONS

A 3 bedroom residence rated at 300 gallons/day, the flow is reduced by 20% due to the use of low flow devices which lowers the daily flow to 240 gallons/day divided by the sewerage application rate (.045 gallons/foot, squared equals the required area of 5333 sq. ft.). The sprayfield is designed at 5448 sq. ft. Exceeding the maximum daily flow set forth in this document, negates the validity of this design. Grease, cigarette butts, sanitary napkins (personal hygiene products) and other non biodegradable products shall not be disposed of in this system.

## DESIGN PARAMETERS

- 1. Estimated Daily Flow
- Application Rate
  Area Designed

## **EQUIPMENT SPECIFICATIONS**

- Pretreatment Tank
- Aerobic Unit
  Pump Tank
- Pump
- Chlorinator
- Sprinklers
- 7. Timer

240 gallons/day .045 gal/Sq. Ft./day 5448 Sq. Ft.

500 gallon Clearstream 500 N 750 gallon Clearstream P-20, 1/2 HP Clearstream P-120 Low angle nozzles 15 degrees or less in trajectory Hr Timer installed W/ Equipment



CORONADO ENVIRONMENTAL 1300 S. Frazier, Suite 102

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DATE: SCALE Aug "=60

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DRAWN BY DRAWING

Survey Elijah Collard Anderson 1.6 Ac George Address

County or Agency:

SJRA

Willis, TX 2201 Gabel