

100' Lewis Road

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 3 Low angle 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 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 sprinkers 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 in the direction of the spray as to impede the spray area. Equipment specified in this design may be substituted for equipment of equivalent specifications

SPRAYFIELD CALCULATIONS

A 3 Bedroom 2000 Sq. Ft. Residence rated at 300 gallons/day, divided by the sewerage application rate (.041 gallons/foot, squared equals the required area of 7317 sq. ft.). The sprayfield is designed at 7317 sq. ft. Exceeding the maximum daily flow set forth in this document, negates the validity of this design. Sq. ii. Exceeding on maximum any now set forth in this document, regardless of standard basis, anitary napkins (personal hygiene products) and other non biodegradable products shall not be disposed of in this system.

DESIGN PARAMETERS

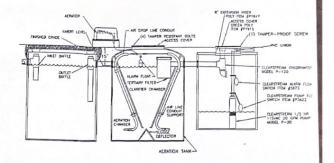
- 1. Estimated Daily Flow
- 2. Application Rate
- 3. Area Designed

- 1. Pretreatment Tank 2. Aerobic Unit
- 3. Pump Tank
- 4. Pump
- 5. Chlorinator 6. Sprinklers
- 7. Timer

300 gallons/day .041 gal/Sq. Ft./day 7317 Sq. Ft.

EQUIPMENT SPECIFICATIONS

500 gallon Clearstream 500 N 750 gallon Clearstream P-20, 1/2 HP Clearstream P-120 Low angle nozzles 15 degree or less in trajectory 24 Hr Timer installed W/ Equipment



| Number | Daily | Pump Tank | Loading | Area |
|----------|---------|--------------|---------|----------|
| of | Flow in | Reg'd Active | | Required |
| Bedrooms | Gallons | Capacity | Rate | Sq. Ft. |
| 3 | 300 | 400 | 0.041 | 7317 |

| Pump Tan | k Specs | | | | |
|-----------------------------------|---------------------------------|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------|
| Height in Inches | Height in Feet | Inside Diameter in Inches | Inside Radius In Feet | Volume in Cubic Ft. | Volume in Gallons |
| 65.5 | 5.46 | 59.5 | 2.48 | 105.40 | 788.36 |
| Gallons Per Inch | Pump Off Level in inches | Pump On Level in inches | Dead Space Gallons | High Water Alarm on in Inches | Active Capacity Gallons |
| 12.04 | 14 | 20 | 240.72 | 44.9 | 547.64 |
| Required Reserve in Gallons | Actual Reserve in Gallons | Actual Reserve in Inches | Reserve Percent of Daily Flow | | |
| 100.00 | 248 | 21 | 83% | | |

| Sprinkler Head Number | Radius in Feet | Degree of Spray | Area Sq. Ft. Covered |
|-----------------------------|----------------------|-----------------------|----------------------------|
| 1 | 30 | 360 | 2827 |
| 2 | 30 | 360 | 2827 |
| 3 | 23 | 360 | 1662 |
| | | Total | 7317 |





PROFESSIONAL SANITARIAN STATE LICENSE 2721

1300 S. Frazier, Suite 102 Conroe, Texas 77301 (936) 539-2999 (936) 539-2955 Fax www.coronadobc.com E-Mail: drawings@coronadobc.com

| SCALE: | DATE: | DRAWN BY: | DRAWING: |
|----------|------------------|-----------|--------------|
| 1" = 50' | 16 December 2002 | KC | Youngcin.Skd |

Cindy Young 1.6 Acres out of Tract 168 Ida Straus Subdivision

ounty or Agency: Address:

Lewis Road