

EXTENDED AERATION SEWAGE TREATMENT FACILITY

1 of 3

| | | | | |
|---|---|---|------------------------|---|
| Project: | Greater Philadelphia Church | | | Water Well within 100'? |
| Engineer: | Dammon Engineering | | | |
| General Scope of Project: | Church with max capacity of 500 with kitchen | | | |
| | | | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Design Average Flow: | 5000 | | | |
| BOD ₅ Loading (in lbs of BOD ₅ per day): | 8.5 | | | |
| Max. # of Lots or Population at Maximum Capacity: | 500 | | | |
| Initial # of Lots (or population): | n/a | | | |
| Industrial Waste: | none | | | |
| Design Effluent Limits: | BOD ₅ : 30 | TSS: 30 | NH ₃ N: n/a | |
| RECEIVING STREAM: <small>(provide complete path from outfall to first perennial non-intermittent waterway in the path of the projected outfall.)</small> | Private ditch to Comite River | | | |
| Plant Manufacturer: | Gainey's Concrete Products, Inc | | | |
| Plant Model #: | Gainey's 5000 | | | |
| Materials of Construction: | Reinforced High Strength Concrete | | | |
| AERATION TANK | Volume: | 5000 | | |
| | Retention Time (24 Hour Min): | 5000 | | |
| | BOD ₅ Loading: (lb per 1000 CF, 12.5 max.): | 12.72 | | |
| | Screen or Communtor ? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| FINAL CLARIFIER | Surface Area: | 37.5 sq ft | | |
| | Surface Loading: (gpd/ft ² @ peak hourly flow) | 133.33 | | |
| | Volume: | 895 gallons | | |
| | Scum Baffle: | 40 year treated pine | | |
| | Skimmer Through: | Airlift | | |
| | Weir Loading: (gpd/ft @ peak hourly flow) | 455 | | |
| Effluent discharge permit applied for from LADEQ? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NAME OF CERTIFIED OPERATOR: | WTSO | | | |



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| | | | |
|---|---------------------------------------|--------------------|--|
| AIR SUPPLY | # of Blowers (2 minimum): | 2 | |
| | Capacity of Each (SCFM): | 30 | |
| SLUDGE RETURN | Method: | Airlift | |
| | Maximum Flow (GPM): | 5.2 Gallons | |
| | Maximum Percent (% of DAF): | 150% | |
| SLUDGE DRYING BEDS | Number of Beds: | N/A | |
| | Area of Each Bed: | | |
| | Total Area: | | |
| | Area per Capita: | | |
| | Gravel Layer Depth: | | |
| | Sizes: | | |
| | Sand Depth: | | |
| | Under-drain Size: | | |
| | Freeboard Above Sand: | | Splash Plate <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | Effluent To: | | |
| SLUDGE LAGOONS | Number of Lagoons: | N/a | |
| | Maximum Depth: | | |
| | Free Board: | | |
| | Volume of Each Lagoon: | | |
| | Volume of Each Lagoon per Capita: | | |
| | Pump: | | |
| | Piping Material: | | Size: |
| | Effluent To: | | |
| OTHER SLUDGE DISPOSAL METHODS Explain: | Pump truck waisting as needed. | | |
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| | | | |
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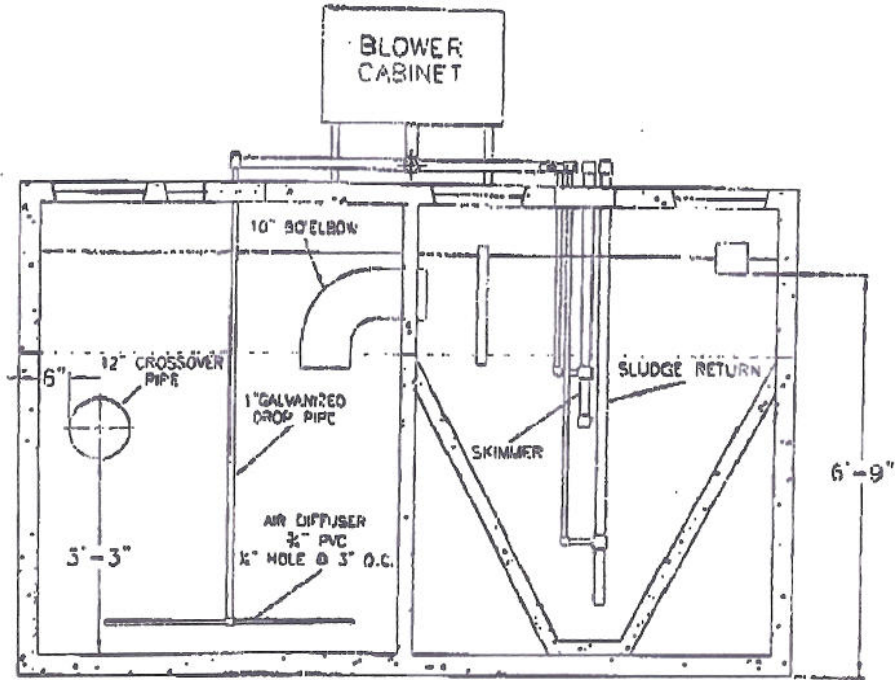


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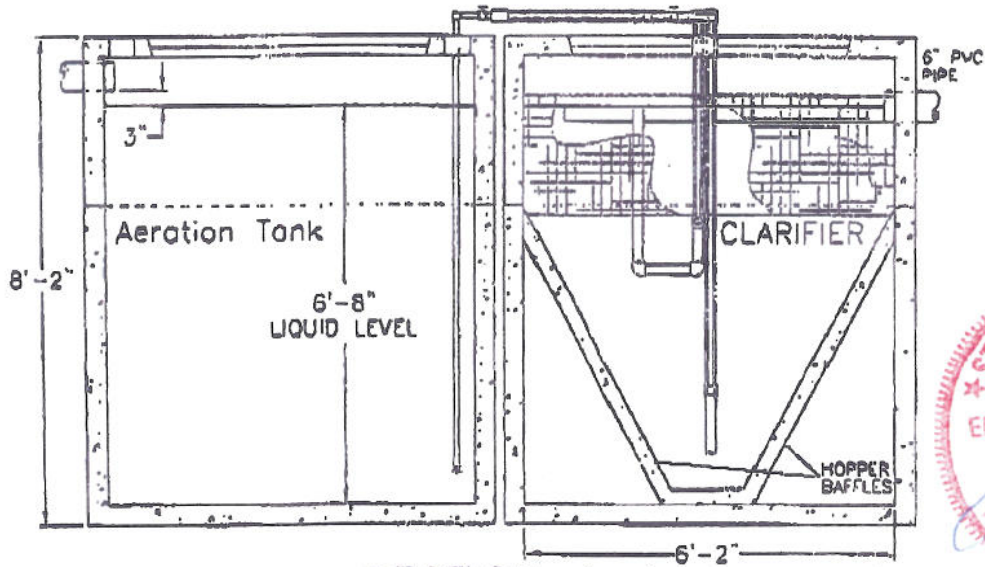
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| | | | | |
|--|---|--|--|--|
| CHLORINATION | Number: | | 2 tube | |
| | Gas or Hypo: | | Hypo | |
| | Capacity (lb per 24 hrs): | | .33 | |
| | Test Kit: | | N/A | |
| | Location: | | Inline | |
| | Ventilation: | | Open Grating on Top | |
| CHLORINE CONTACT TANK | Inside Dimensions | Length: | 4'6" | |
| | | Width: | 3'6" | |
| | | Operating Depth: | 2'3" | |
| | | Capacity (gal): | 250 | |
| | Retention Time: <small>(15 minute min. @ peak hourly flow or maximum rate of pumping)</small> | | 30 | |
| Baffles <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Scum Baffle <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| ADDITIONAL DETATILS | Backflow Prevention <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Power Supply (Dual) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Washdown Facility <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| | Facility Fenced <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Gates Locked <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Access Road <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| ADDITIONAL COMMENTS: | STP shall be constructed using minimum 4500 PSI high-strength reinforced precast concrete as manufactured by a member of the NPCA (National Precast Concrete Association). | | | |
| LOCATIONAL INFORMATION | | Coordinates: | | |
| | | Latitude 30°38'57.6"N | | |
| | | Longitude 91°05'67.3"W | | |
| | | OR | | |
| | | Latitude 00.00000°N | | |
| | | Longitude 00.00000°W | | |
| | | Geographic Datum: | | |
| | | NAD83 <input type="checkbox"/> WGS84 <input type="checkbox"/> NAD27 <input type="checkbox"/> | | |
| | | Collection Method: | | |
| | | GPS <input type="checkbox"/> — DGPS/WAAS enabled? Yes <input type="checkbox"/> No <input type="checkbox"/> | | |
| | | — Horizontal Accuracy? _____ meters | | |
| | | Map <input checked="" type="checkbox"/> Specify: Street Atlas | | |
| | | Scale: 1/1000 | | |





SECTION B-B



SECTION A-A



5000 GAL SEWAGE TREATMENT SYSTEM

SCALE: 3/8" = 1'-0"

11/8/02.



28021 Coker-Vail Road
 Phone (225) 567-2700

Holden, LA
 Fax (225) 567-3089

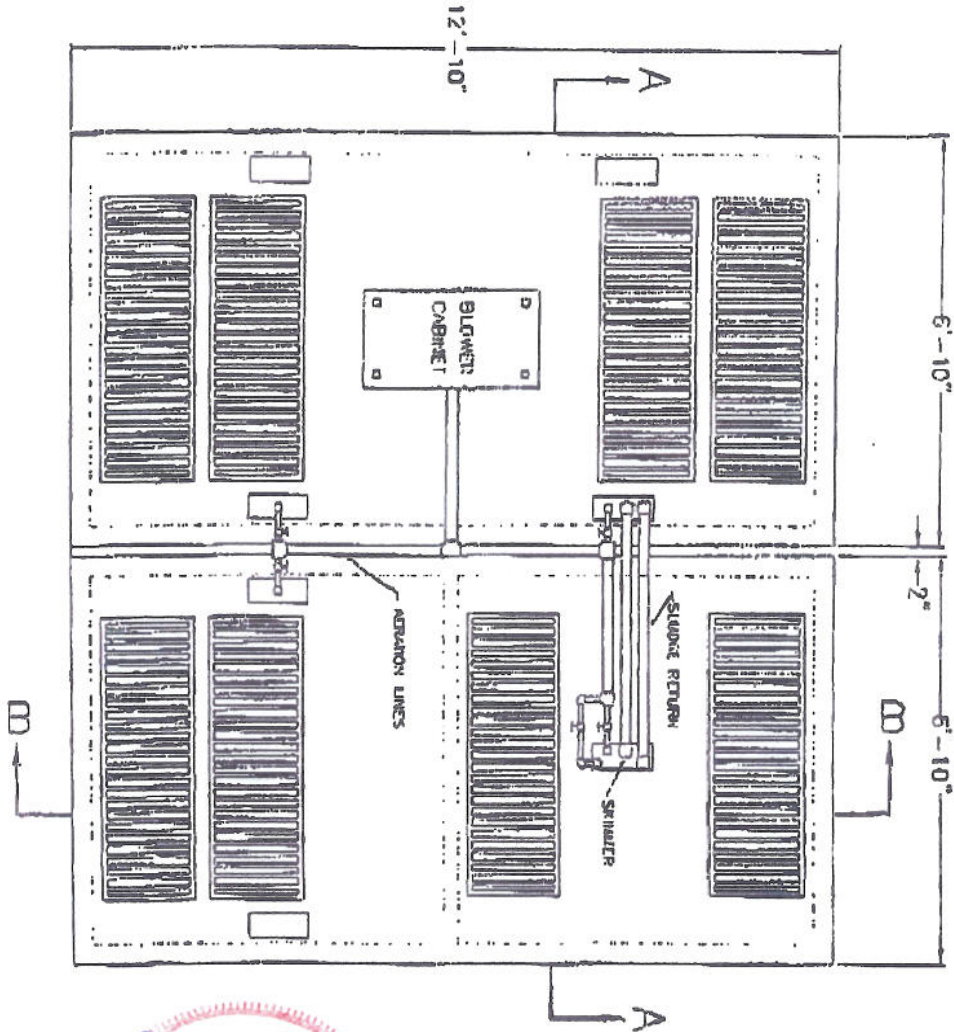
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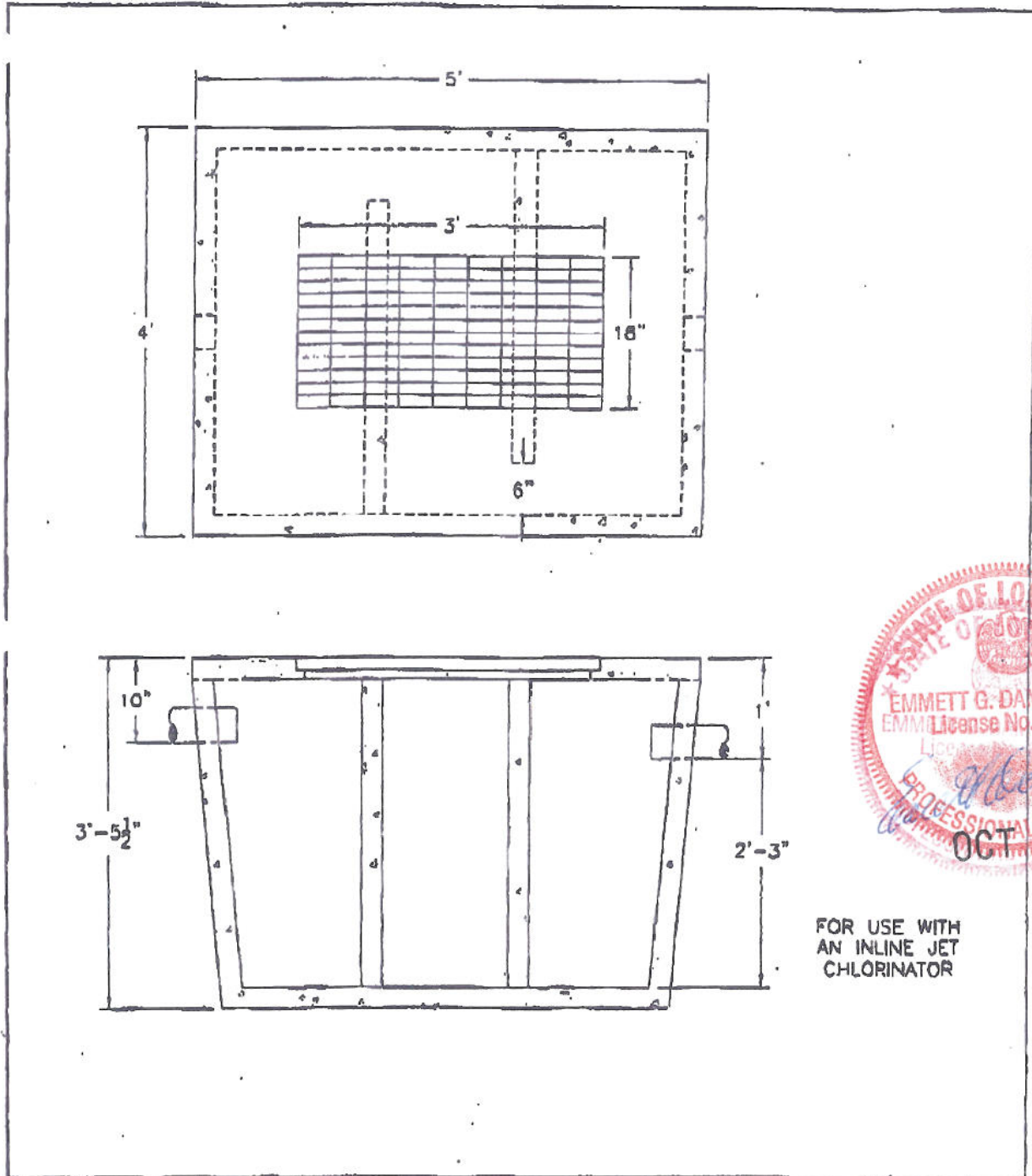
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www.gainey.com

TOP VIEW



5000 GAL SEWAGE
 TREATMENT SYSTEM
 SCALE: 1/2" = 1'-0"
 1/8/02



FOR USE WITH
AN INLINE JET
CHLORINATOR

GCP 250 CHLORINE CONTACT CHAMBER

SCALE: 3/4" = 1'

7/21/04



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