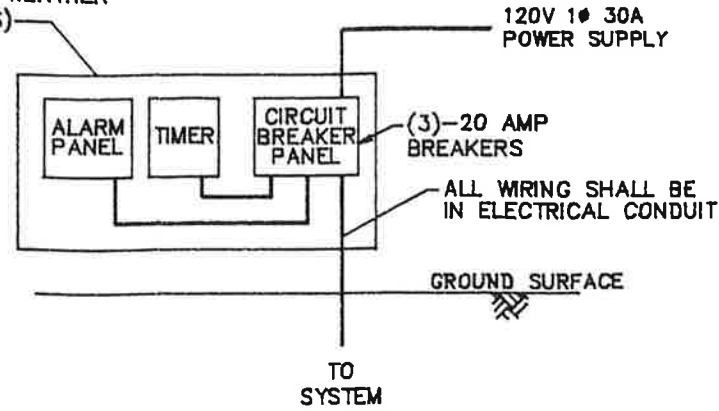


PUMP TANK

PUMP: 20 GPM 120V 1 1/2 HP
 HIGH LEVEL LIGHT/FLOAT ALARM:
 FLOAT SWITCH:
 13 AMP MIN., 50 AMP SURGE

FOUNDATION REQUIREMENT
 STABILIZED OR COMPACTED SAND

THIS EQUIPMENT MUST BE
 MOUNTED ON BUILDING OR
 FREE-STANDING WEATHER-
 TREATED POST(S)



SYSTEM CONTROL ARRANGEMENT

PUMP TANK FLOAT SETTINGS

| | |
|-----------------------------|--------------------------------|
| BOTT. OF INLET TO TK. BOTT. | = 51.5" |
| GAL./INCH OF HEIGHT | = 13.93 GAL. |
| ALARM SET | = 42.0" = 69.65 GAL. ABV. 'ON' |
| PUMP ON | = 37.0" } |
| PUMP OFF | = 15.0" } 308.46 GAL. |

GENERAL NOTES

- 1 - An on-site sewage facility license must be obtained from Harris County prior to installing and operating this wastewater disposal system.
- 2 - System installation must be by a registered installer of on-site sewage facilities as required by Article 4477-7E of Vernons Civil Statutes or by the owner of the property under the license. No component of this system shall be covered up without Harris County's written approval.
- 3 - If any discrepancies exist between the approved design and the actual field conditions, it is installers responsibility to immediately notify the designer and Harris County prior to start of any work.
- 4 - All construction methods and materials must be in accordance with county and state rules and policies unless specifically noted on this drawing and approved by Harris County.
- 5 - This system, if installed and operated in accordance with this plan, should not present a hazard to public health nor threaten proposed or adjacent water wells. Actual location of any and all components may be varied depending upon owner's desires and installers best judgement.

BASIS OF DESIGN (w/WATER SAVING DEVICES)

4-BDRM. RESIDENCE (<3500sf) = 300 gpd
 PROPERTY AREA = 2.3546 ACRES

DISPOSAL METHOD:

TREATED WATER IRRIGATION SYSTEM
 APPLICATION RATE = 0.041 gal/sf (TDH BULLETIN-
 APRIL 10,1990)

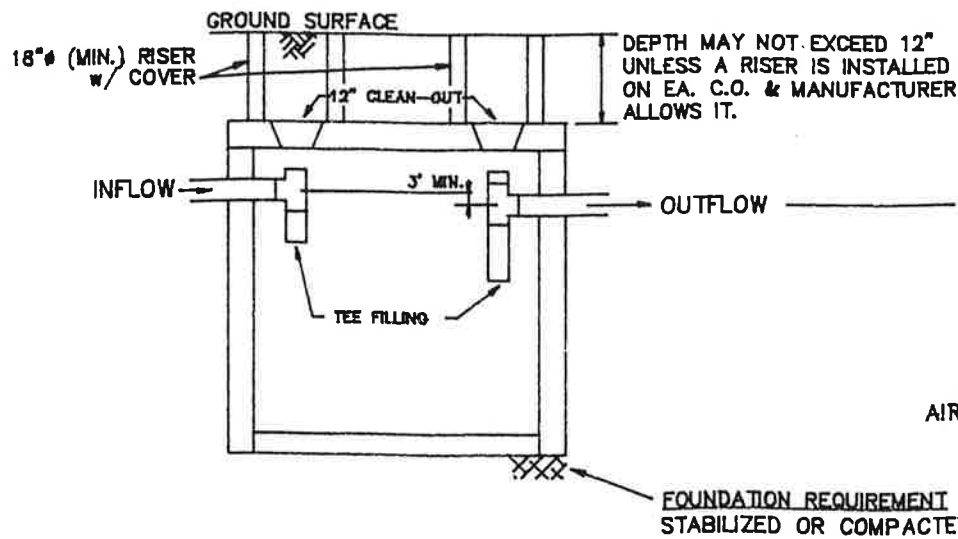
IRRIGATION AREA REQ'D:

$$\frac{300 \text{ gpd}}{0.041} = 7,317 \text{ sf}$$

- 4 - 26' RAD. SPRAY NOZZLES = 8,426 sf
 RAIN-BIRD SPRAY NOZZLE MOD. R-50SAM-LA

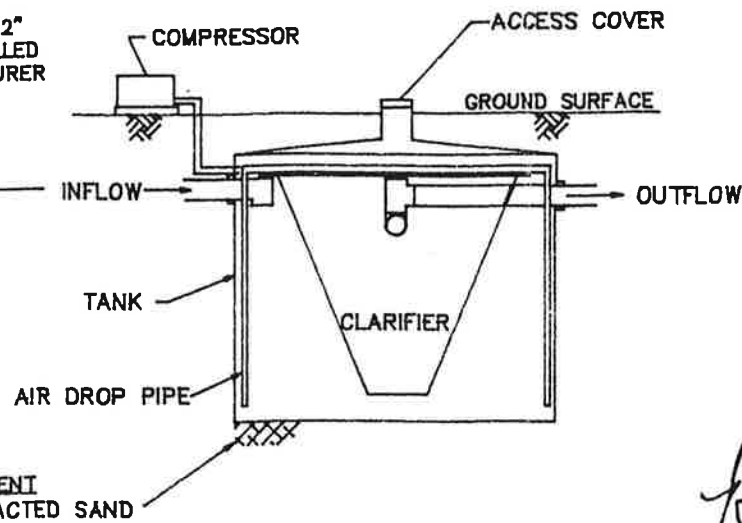
TREATMENT METHOD

- (1) 500 GAL PRE-TREATMENT TANK
- (1) 500 GPD NSF TESTED ON-SITE TREATMENT UNIT
- (1) 750 GAL PUMP TANK
- SPRINKLERS - PER ATTACHED DRAWING
- CHLORINATOR - REQ'D.
- TIMER FOR PUMP CIRCUIT SHALL BE SET TO SPRAY BETWEEN MIDNIGHT & 5:00 A.M.
- TOWER MUST HAVE FOLIAGE (GRASS) COVER FOR SPRAY AREA



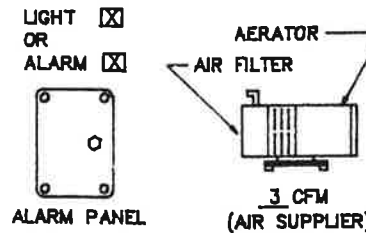
PRE-TREATMENT TANK

FOR COLLECTION OF FLOATABLES & SETTLEABLES



TREATMENT TANK

AQUA-SAFE SYSTEM (OR EQUAL)



Randolph E. Pettit
 19 Jun '02



I, R.E. PETTIT, A REGISTERED PROFESSIONAL ENGINEER OF TEXAS, SUBMIT THIS DRAWING AS A DESIGN TO COMPLY WITH THE DEPARTMENT OF HEALTH "CONSTRUCTION STANDARDS FOR ON-SITE SEWERAGE FACILITIES" AND TO BE INSTALLED BY OTHERS.

| | | | |
|-----------------------------|--------------------|--------|---------|
| ON-SITE DISPOSAL SYSTEM FOR | | SCALE | NONE |
| BILL E. & EDIR M. JACHETTA | | DATE | 6/18/02 |
| 1906 MAN O'WAR COURT | | DESIGN | LYCAN |
| RICHMOND, TX 77469 | | CHKD. | PETTIT |
| C V SERVICES | (281)328-5059 | DRG. | AR2-35A |
| Crosby, TX 77532 | | SHT | 2 OF 2 |
| Engineered Septic Systems | | | |
| R.E. Pettit, PE26827 | T.D. Lycan, OS6858 | | |