

TARRANT REGIONAL WATER DISTRICT  
140 FM 416, Streetman, Texas 75859  
903-389-3928  
Fax # 903-389-7587

TRWD USE ONLY  
RC 090268

APPLICATION NO.

2999

RECEIPT NO.

9-16-02

DATE

\$ 200.00

AMOUNT

APPLICATION FOR ON-SITE  
SEWAGE FACILITY

Richland Chambers

TRWD RESERVOIR

Freestone

COUNTY OF INSTALLATION

1. PROPERTY OWNER'S NAME: Dent Jon K  
(LAST) (FIRST) (MIDDLE)
2. PERMANENT MAILING ADDRESS: 4955 FM Rd 879 Palmer, TX 75150  
(STREET/PO BOX) (CITY/STATE) (ZIP)
3. TELEPHONE NO. DURING DAY: (972) 878-5801
4. SITE ADDRESS: 109 Bull Run Drive Streetman TX 75859  
(STREET) (CITY/STATE) (ZIP)
5. PROPERTY DESCRIPTION: LOT NO. 29A BLOCK 2 SEC — SIZE — SQ. FT.
- SUBDIVISION: Wilderness Acreage — Survey —
6. SOURCE OF WATER: Private Well ☒ Public Water Supply Calzo Water Supply  
(NAME OF SUPPLIER)
7. SINGLE FAMILY RESIDENCE: No. of Bedrooms 4 Living Area (sq. ft.) 2700
- DESIGNED MAXIMUM DAILY WATER CONSUMPTION (gpd): 300
8. COMMERCIAL/INSTITUTIONAL (including multi-family residences) TYPE: Single Family
- NO. OF EMPLOYEES/OCCUPANTS/UNITS: — DAYS OCCUPIED PER WEEK: —
- DESIGNED MAXIMUM DAILY WATER CONSUMPTION (gpd): —
9. IS AN ORGANIZED SEWAGE COLLECTION WITHIN 300 FEET? ☒ Yes ☐ No
10. DESIGNER: William W. Hill LICENSE NO.: 1361 SE-05762
- PHONE NO.: 903-874-3945
11. INSTALLER: Timmy Rash REGISTRATION NO.: 05-583
- PHONE NO.: 903-872-5520

I certify that the above statements are true and correct to the best of my knowledge. Authorization is hereby given to the Tarrant Regional Water District to enter upon the above described private property for the purpose of lot evaluation and inspection of on-site sewerage facilities. I understand that the approval of this application constitutes authorization for construction of the on-site sewerage facility and that a permit to operate the facility will be granted following successful inspection of the installed system which indicates that the system was installed in compliance with TNRCC's On-Site Sewage Facility Rules (OSSF) and the District's Waste Control Order.

Jon K. Dent

(SIGNATURE OF OWNER)

Karlotte Smith

(SIGNATURE OF AUTHORIZED DISTRICT REPRESENTATIVE)

9-10-02

(DATE)

9-16-02

(DATE)

*TARRANT REGIONAL WATER DISTRICT*

*140 FM 416, Streetman, Texas 75859  
903-389-3928*

*AUTHORIZATION TO CONSTRUCT  
AN  
ON-SITE SEWAGE FACILITY*

Application Number      RC 090268

Property Owner            Jon Dent

Mailing Address           4955 FM 879  
Palmer, Texas 75152

Property Location        Lot 29A The Wilderness I  
109 Bull Run Dr.  
Streetman, Texas 75859

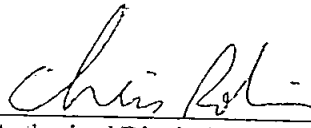
Freestone County, Texas

This serves to notify all persons that an on-site sewerage facility application, related technical data, and the appropriate fee have been received by the Tarrant Regional Water District (District) from the property owner. The application has been reviewed for technical and administrative consideration against the standards set forth by the District. Approval is hereby granted for the construction as shown on the submitted plans.

Any modifications to submitted plans require approval by the Tarrant Regional Water District prior to installation.

You or your installer must contact the District office at 903-389-3928 between 7:30 A.M. to 8:30 A.M. to arrange for the required facility inspection. Calls after 8:30 A.M. may result in inspection being delayed until the next working day. The authorization to construct is valid for one year from the date of issue of an application. If a final inspection has not been performed within one year of issue, a new application and fee will be required.

Comments: The following design is based upon the minimum standards set forth by the Texas Natural Resource Conservation Commission and is based on a maximum daily flow of 300 gallons, the use of water saving devices is required.

 OS-8058  
Authorized District Representative

10-8-02  
Date

**Testing**  
Backflow Preventers  
RPZA, PVB, DC

**WILL HILL**  
**TESTING AND DESIGN**  
204 N. FM 2555  
Corsicana, Texas 75110  
903-874-3945

**Design**  
On-Site Sewage Systems  
Sludge Disposal Sites

### Calculations for Drip Emitter System

**Jon Dent**  
Wilderness \* Blk. I \* Lot 29-A

4 bedroom house @ 300 GPD

Long term application in Class <sup>III</sup> soil = 0.2 gal./ sq. ft./day

\*\*\*\*\*  
**Required:**

300 gal/day + 0.2 gal./sq. ft./day = 1500 sq. ft. application area.

1500 sq. ft. + 4 sq. ft./emitter = **375 emitters** X 2 ft. drip line/emitter = **750 ft. of drip line.**

\*\*\*\*\*  
**Designed:**

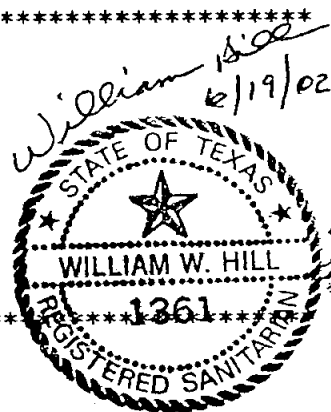
One field of 874 ft. dripline.

874 + 2 ft. line/emitter = 437 emitters x 0.6 gal./hr./emitter = 262.2 GPH.

262.2 GPH + 60 min./hr. = 4.37 GPM.

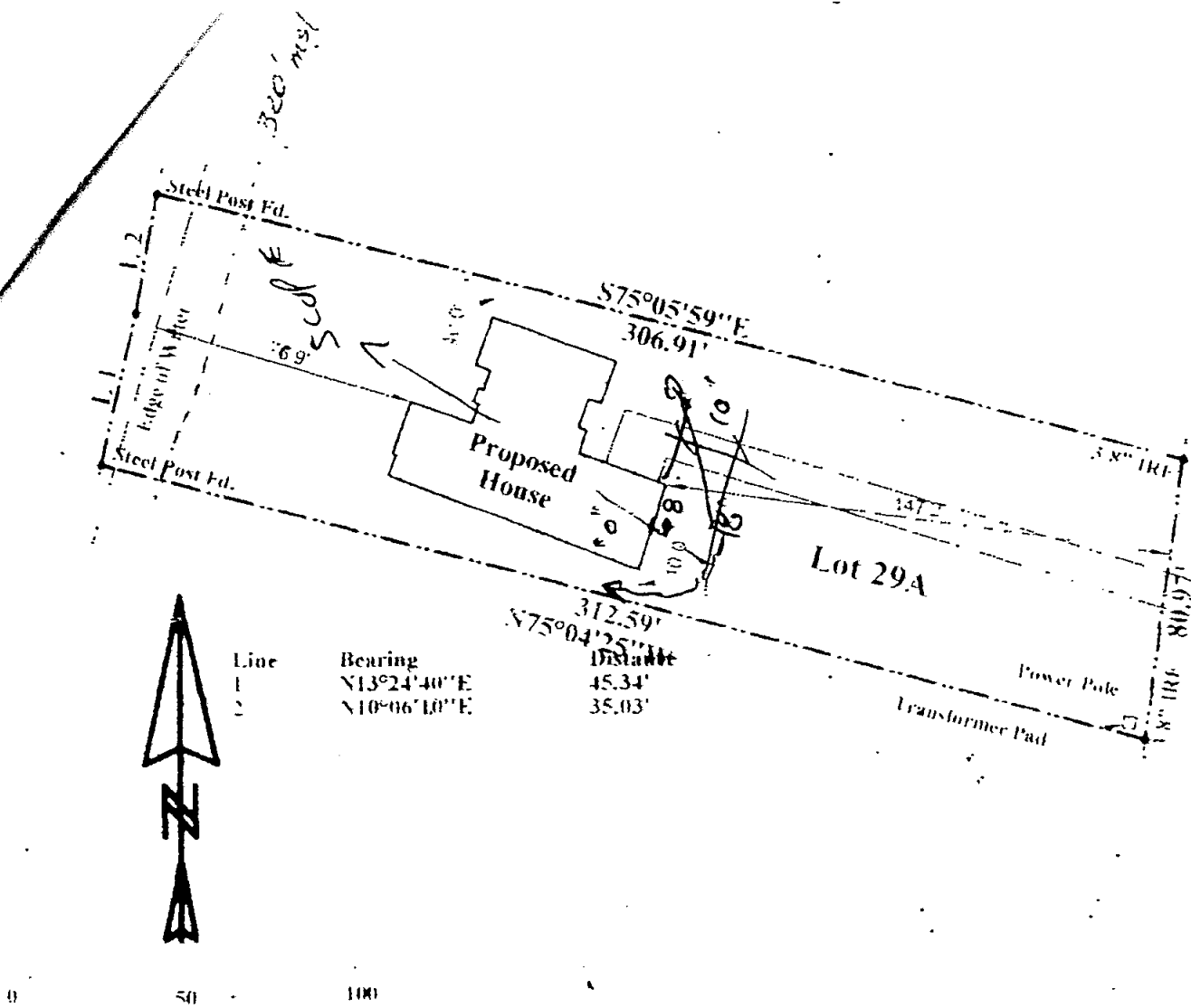
\*\*\*\*\*  
(8 cycles/day)      300 GPD + 8 cycles/day = **37.5 gal./cycle**

\*\*\*\*\*  
(8 cycles/day)      37.5 gal./cycle + 4.37 gal./min. = **8.6 min./cycle.**



T W D  
R. S. # 1361

# Bullrun Drive

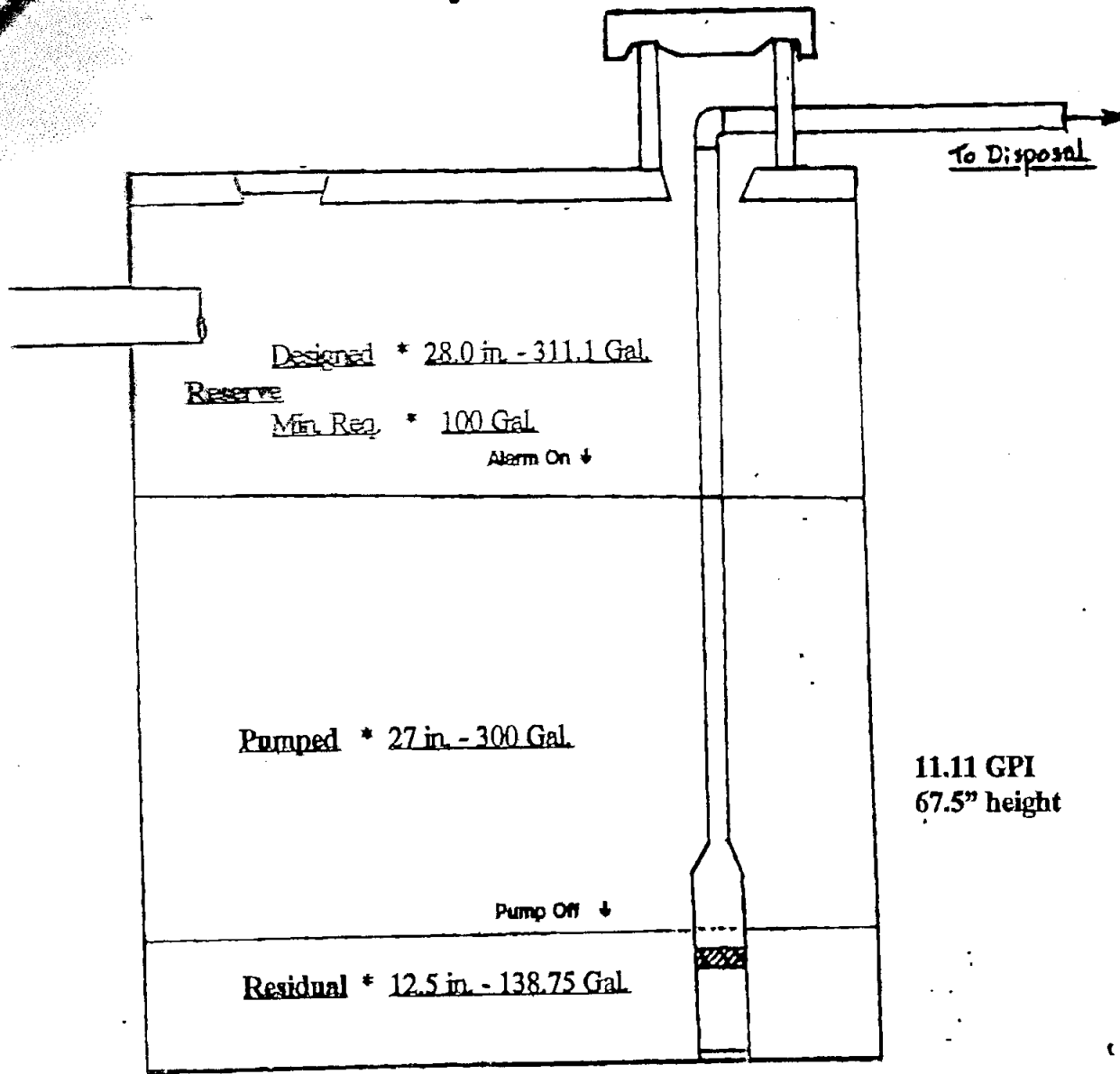


This is to declare that on January 19, 2001, a careful and accurate survey was made under my personal supervision on the ground of the property located at Bullrun Drive in Freestone County, Texas, and being described as follows: Lot 29A of the Wilderness Subdivision, Section One, according to the replat is recorded in Cabinet B Envelope 113 of the Plat Records of Freestone County. The plat hereon is a true, correct and accurate representation of the property as determined by survey, the lines and dimensions of said property being as indicated on the plat; the size, location and type of buildings and improvements are as shown, and that the distance from the nearest intersecting road is as shown on the plat. This survey is subject to any easements not visible on the ground. THERE ARE NO ENCROACHMENTS, CONFLICTS OR PROTRUSIONS, EXCEPT AS SHOWN.

*[Signature]*  
 SURVEYOR

Concrete Pump Tank  
4 Plan 35  
11.11

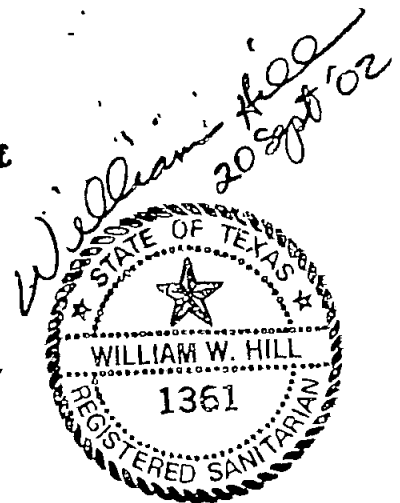
Jon Dent  
The Wilderness  
Blk. I; Lot 29-A



11.11 GPI  
67.5" height

Set Pump On at Shortest Tether Possible Above Pump Off

Pump tanks must be equipped with visual and audible alarms.



# **ON-SITE SEWAGE FACILITY SOIL SURVEY REPORT INFORMATION**

City Owner's Name Jon Dent  
 Mailing Address 2  
 City, State, Zip Streetman, TX.  
 Site Location The Wilderness; Blk. I; Lot 29-A  
 County Freestone

(FOR HOLE #1)

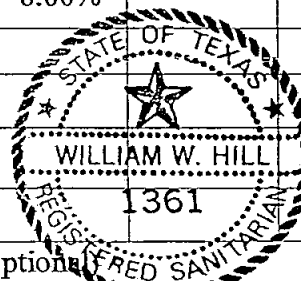
DEPTH	TEXTURE	CLASS	STRUCTURE	WATER TABLE	SLOPE 0-30%	* SOIL SERIES	* SOIL ABSORPTION
in.	i.e. Loamy Sand, Sandy Loam, Loam, Silty Clay Loam, Sandy Clay, or Clay.	per USDA Chart i.e. Ia,Ib,II,III,or IV	Only if soil is a Class III i.e. Blocky, Platy, or Massive	PRESENT Yes / No	Maximum of overall drainfield	per County Soil Survey i.e. "Bowie"	LIMITATION RATING i.e. Fair, Moderate, Severe
00 - 12	Sandy Loam	II		No	8.00%		Fair
12 - 24	Mott. Sandy Clay	III	Sub Ang Bl	No			Moderate

\* This can be found in the County Soil Survey entitled "Sanitary Facilities" (optional)

THE MOST RESTRICTIVE SOIL CLASS FOUND ONE (1) FOOT BELOW THE BOTTOM OF THE PROPOSED EXCAVATION IS: CLASS III [Note Class Ia & IV are unsuitable for standard disposal systems]

(FOR HOLE #2)

DEPTH	TEXTURE	CLASS	STRUCTURE	WATER TABLE	SLOPE 0-30%	* SOIL SERIES	* SOIL ABSORPTION
in.	i.e. Loamy Sand, Sandy Loam, Loam, Silty Clay Loam, Sandy Clay, or Clay.	per USDA Chart i.e. Ia,Ib,II,III,or IV	Only if soil is a Class III i.e. Blocky, Platy, or Massive	PRESENT Yes / No	Maximum of overall drainfield	per County Soil Survey i.e. "Bowie"	LIMITATION RATING i.e. Fair, Moderate, Severe
00 - 24	Sandy Loam	II		No	8.00%		Fair
24 - 46	Sandy Clay	III	Sub Ang Bl	No			Moderate
46 - 48	Gr. Sandy Clay	III	Sub Ang Bl	No			Moderate



\* This can be found in the County Soil Survey entitled "Sanitary Facilities" (optional)  
 THE MOST RESTRICTIVE SOIL CLASS FOUND ONE (1) FOOT BELOW THE BOTTOM OF THE PROPOSED EXCAVATION IS: CLASS III [Note: Class Ia & IV are unsuitable for standard disposal systems]

EVALUATION PERFORMED BY: William Hill Registered Sanitarian.  
 DATE OF SOIL SURVEY: 2 June 2002 CERTIFICATION NO: QS7622

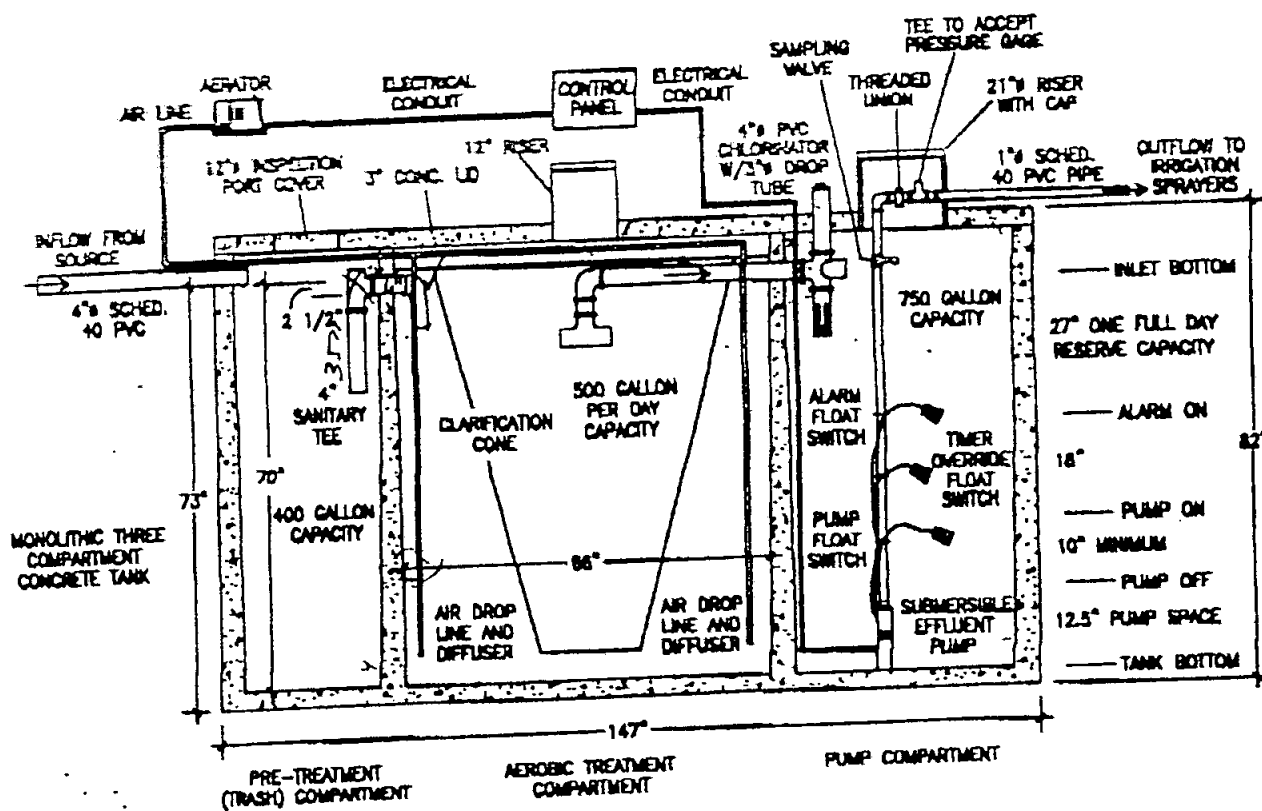
# TYLER PRODUCTS & SALES

SINCE 1982

10383 SPUR 164 • TYLER, TX 75709  
OFFICE 903/593-8633 • FAX 903/593-8862

JOHN REDFERN

MANUFACTURERS OF PRECAST:  
SEPTIC TANKS • AEROBIC SYSTEMS • GREASE INTERCEPTORS •  
MANHOLES • CATCH BASINS • BURIAL BOXES & VAULTS • CAR STOPS  
• SAND TRAPS • LIFT STATIONS



NOTE: TANK IS 72" WIDE

10.25 GFI  
6.10 GFI  
Valve

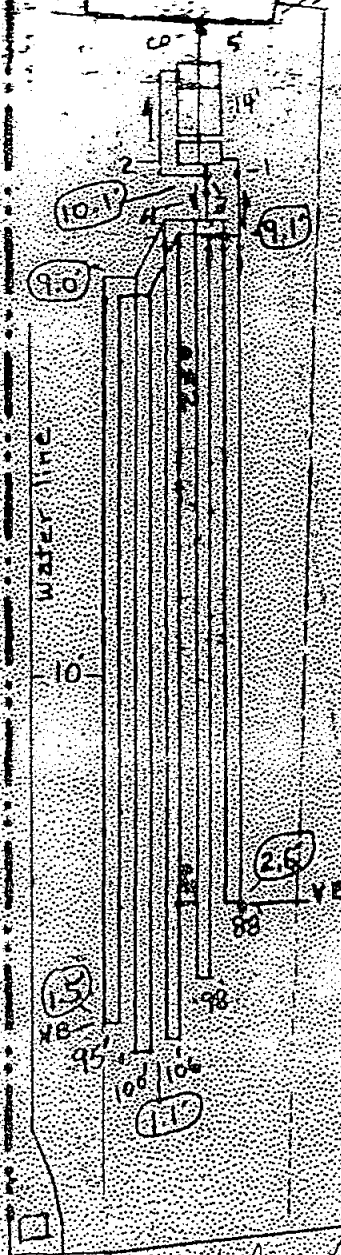
AQUA SAFE SINGLE TANK  
THREE COMPARTMENT TREATMENT UNIT

Jon Dent  
The Wilderness  
Blk. I, Lot 29-A

Revision

312.59'

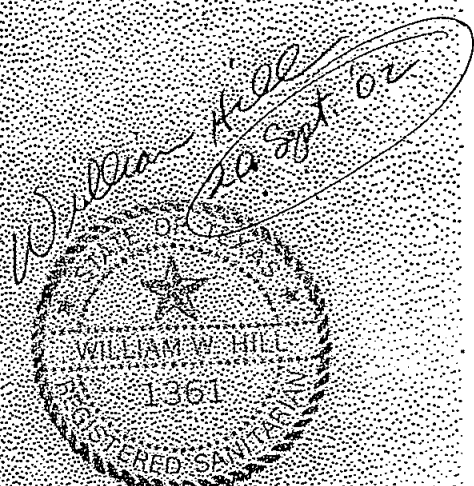
306.91'



Slope  
8%

Trees &  
Grass

- 1. ball valve
- 2. filter wash return line
- 3. 100 micron filter
- 4. pressure regulator
- VB - vacuum breaker





**Cont. specifications for Jon Dent**

TNRCC requires 1/3 daily rated usage ( $300 \text{ gal.}/3 = 100 \text{ gal.}$ ) as reserve capacity in the pump tank in case of malfunction of the treatment system. At a designed reserve capacity of 128 gal. there will be 1.28 times the required reserve capacity.

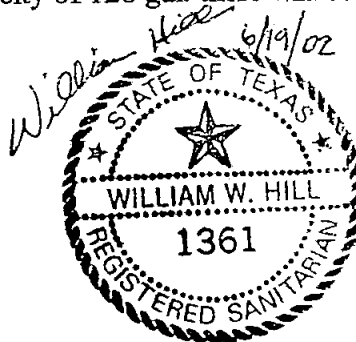
Operating Pressure = 20 psi = 46 ft. head.

Pump Head:

Pressure Head = 46.0 ft.

Friction Head = 7.0 ft.

Elevation Head = 13.0 ft.



66.0 ft. @ 4.37 GPM + 2 GPM recycle = 6.37 GPM @ 66 ft. total pump head.

The treatment system is to be an AquaSafe-500 (4 + 75) with the Aeromotor 1/2 HP pump, model #T2050. The autodialer for this system is made by ChlorAlarm and is Model #CA(1)300LSORTBB5-4B-BBXLS-BB5LSC-115. The dripline is to be Netafim USA Bioline 0.6 GPH (08WRAM.6-24V). The dripline to be buried 10" in depth.

2006534

THE COUNTY OF Freestone  
STATE OF TEXAS

## CERTIFICATION OF OSSF REQUIRING MAINTENANCE

According to Texas Natural Resource Conservation Commission Rules for On-Site Sewage Facilities, this document is filed in the Deed Records of Freestone County, Texas.

## I

The Texas Health and Safety Code, Chapter 366 authorizes the Texas Natural Resource Conservation Commission (TNRCC) to regulate on-site sewage facilities (OSSFs). Additionally, the Texas Water Code (TWC), §5.012 and §5.013, gives the TNRCC primary responsibility for implementing the laws of the State of Texas relating to water and adopting rules necessary to carry out its powers and duties under the TWC. The TNRCC, under the authority of the TWC and the Texas Health and Safety Code, requires owner's to provide notice to the public that certain types of OSSFs are located on specific pieces of property. To achieve this notice, the TNRCC requires a deed recording. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This deed certification is not a representation or warranty by the TNRCC of the suitability of this OSSF, nor does it constitute any guarantee by the TNRCC that the appropriate OSSF was installed.

## II

An OSSF requiring a maintenance contract, according to Texas Administrative Code §285.91(12) will be installed on the property described as:

109 Bull Run Drive, Lot 27A Block 1  
The Wilderness - Subdivision

The property is owned by Jan K Dant

O  
R1  
2  
1  
16  
2  
1

2006534

O  
R

This OSSF must be covered by a continuous maintenance contract. All maintenance on this OSSF must be performed by an approved maintenance company, and a signed maintenance contract must be submitted to Tarrant Regional Water District within 30 days after the property has been transferred.

1  
2  
1  
1

The owner will, upon any sale or transfer of the above-described property, request a transfer of the permit for the OSSF to the buyer or new owner. A copy of the planning materials for the OSSF can be obtained from Tarrant Regional Water District

6  
2  
2  
1

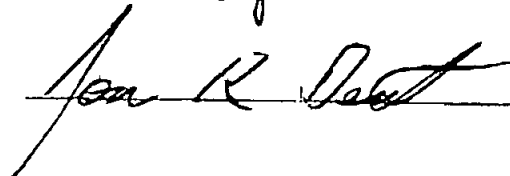
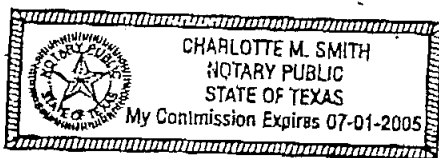
140 FM 416

Streetman, Texas 75859

(903) 389-3928

WITNESS BY HAND(S) ON THIS 11<sup>th</sup> DAY OF September, 2002Filed for Record in:  
Freestone County

On: Sep 12, 2002 at 04:50PM

As a RecordingsDocument Number: 2006534Amount 11.00Receipt Number - 37800  
By, Linda Jarvis  
\_\_\_\_\_  
(Owner(s) signature(s))SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 11<sup>th</sup> DAY OF September  
  
\_\_\_\_\_  
Notary Public, State of TexasNotary's Printed Name Charlotte M. SmithMy Commission Expires: 7/1/2005