



# TEXAS ASSOCIATION OF REALTORS®

## INFORMATION ABOUT ON-SITE SEWER FACILITY

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### CONCERNING THE PROPERTY AT

112 Tonkawa Trail  
Corsicana, TX 75109

#### A. DESCRIPTION OF ON-SITE SEWER FACILITY ON PROPERTY:

- (1) Type of Treatment System: ☒ Septic Tank ☐ Aerobic Treatment ☐ Unknown  
☐ See attached
- (2) Type of Distribution System: See attached ☐ Unknown
- (3) Approximate Location of Drain Field or Distribution System: See attached ☐ Unknown
- (4) Installer: \_\_\_\_\_ ☐ Unknown
- (5) Approximate Age: \_\_\_\_\_ ☐ Unknown

#### B. MAINTENANCE INFORMATION:

- (1) Is Seller aware of any maintenance contract in effect for the on-site sewer facility? ☐ Yes ☒ No  
If yes, name of maintenance contractor: \_\_\_\_\_  
Phone: \_\_\_\_\_ contract expiration date: \_\_\_\_\_  
*Maintenance contracts must be in effect to operate aerobic treatment and certain non-standard on-site sewer facilities.)*
- (2) Approximate date any tanks were last pumped? 5-2011
- (3) Is Seller aware of any defect or malfunction in the on-site sewer facility? ☐ Yes ☒ No  
If yes, explain: \_\_\_\_\_
- (4) Does Seller have manufacturer or warranty information available for review? ☐ Yes ☐ No

#### C. PLANNING MATERIALS, PERMITS, AND CONTRACTS:

- (1) The following items concerning the on-site sewer facility are attached:  
☐ planning materials ☐ permit for original installation ☐ final inspection when OSSF was installed  
☐ maintenance contract ☐ manufacturer information ☐ warranty information ☒ See attached
- (2) "Planning materials" are the supporting materials that describe the on-site sewer facility that are submitted to the permitting authority in order to obtain a permit to install the on-site sewer facility.
- (3) It may be necessary for a buyer to have the permit to operate an on-site sewer facility transferred to the buyer.

<u>Facility</u>	<u>Usage (gal/day) without water- saving devices</u>	<u>Usage (gal/day) with water- saving devices</u>
Single family dwelling (1-2 bedrooms; less than 1,500 sf)	225	180
Single family dwelling (3 bedrooms; less than 2,500 sf)	300	240
Single family dwelling (4 bedrooms; less than 3,500 sf)	375	300
Single family dwelling (5 bedrooms; less than 4,500 sf)	450	360
Single family dwelling (6 bedrooms; less than 5,500 sf)	525	420
Mobile home, condo, or townhouse (1-2 bedroom)	225	180
Mobile home, condo, or townhouse (each add'l bedroom)	75	60

112 Tonkawa Trail

**TARRANT REGIONAL WATER DISTRICT**

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

**AUTHORIZATION TO CONSTRUCT  
AN  
ON-SITE SEWAGE FACILITY**

Application Number      RC07-084  
Property Owner          Stephanie K. Rivera  
Mailing Address          107 Kirk Dr.  
                                 Corsicana, TX 75109  
Property Location        Lot: 65 Arrowhead I  
                                 112 Toukawa Trail  
                                 Corsicana, TX 75109  
  
                                 Navarro 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 Commission on Environmental Quality and is based on a maximum daily flow of 300 gallons, the use of water saving devices is required.**

  
\_\_\_\_\_  
Authorized District Representative

OS-21243

\_\_\_\_\_  
Date

12-10-07

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

TRWD USE ONLY

R007-84

APPLICATION NO.

10911

RECEIPT NO.

12-6-07

DATE

200-

AMOUNT

APPLICATION FOR ON-SITE  
SEWAGE FACILITY

R. C.  
TRWD RESERVOIR

NAVARRO

COUNTY OF INSTALLATION

1. PROPERTY OWNER'S NAME: Rivera Stephanie Kaye  
(LAST) (FIRST) (MIDDLE)
2. PERMANENT MAILING ADDRESS: 107 Kirk Drive Corsicana, TX 75109  
(STREET/PO BOX) (CITY/STATE) (ZIP)
3. TELEPHONE NO. DURING DAY: (903) 875-1608
4. SITE ADDRESS: 112 Dukawa Trail Corsicana TX 75109  
(STREET) (CITY/STATE) (ZIP)
5. PROPERTY DESCRIPTION: LOT NO. 65 BLOCK - SEC I SIZE - SQ. FT. A-526
- SUBDIVISION: Arrowhead Phase I Acreage 2.02 Survey John Mason
6. SOURCE OF WATER: Private Well ☒ Public Water Supply M. E. N.  
(NAME OF SUPPLIER)
7. SINGLE FAMILY RESIDENCE: No. of Bedrooms 4 Living Area (sq. ft.) 2828
- DESIGNED MAXIMUM DAILY WATER CONSUMPTION (gpd): 300
8. COMMERCIAL/INSTITUTIONAL (including multi-family residences) TYPE: N/A
- NO. OF EMPLOYEES/OCCUPANTS/UNITS: N/A DAYS OCCUPIED PER WEEK: N/A
- DESIGNED MAXIMUM DAILY WATER CONSUMPTION (gpd): N/A
9. IS AN ORGANIZED SEWAGE COLLECTION WITHIN 300 FEET? ☐ Yes ☒ No
10. DESIGNER: PH. H. P. MARIN LICENSE NO.: 2604
- PHONE NO.: 972-452-8487
11. INSTALLER: Jimmy 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 TCEQ'S On-Site Sewage Facility Rules (OSSF) and the District's Waste Control Order.

Stephanie K. Rivera  
(SIGNATURE OF OWNER)

11-29-07  
(DATE)

Sherry Johnson  
(SIGNATURE OF AUTHORIZED DISTRICT REPRESENTATIVE)

12-6-07  
(DATE)



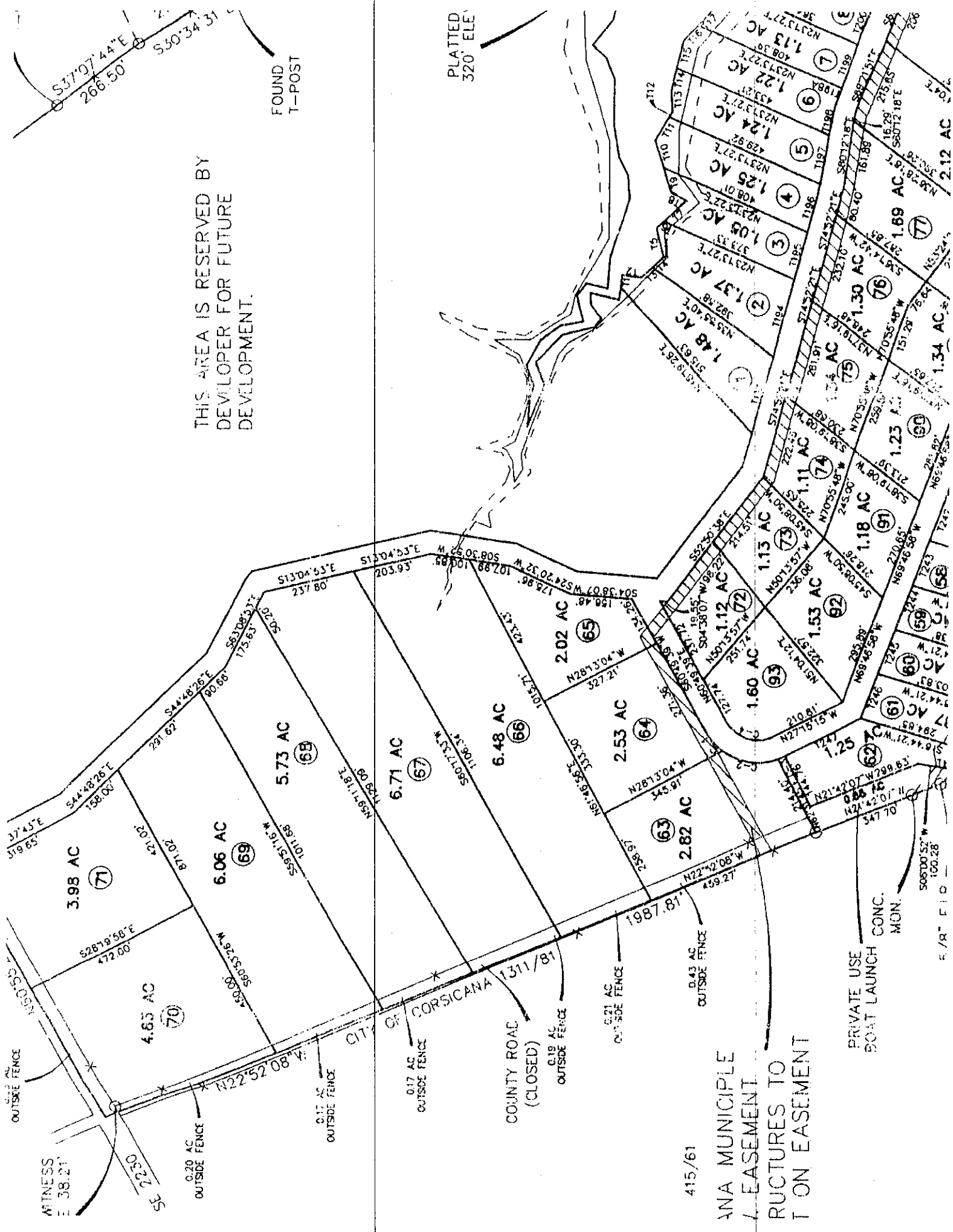
# BUILDING PERMIT

COUNTY OF NAVARRO, TEXAS

No 10140

JOB ADDRESS				112 Lonkama Trail Corsicana 75109			
LOT NO		BLK		SUBDIVISION			
65				Arrowhead Ph. I			
OWNER		ADDRESS		PHONE			
David + Stephanie		107 Kirk Dr. Cor.		75109		903-872-6167	
CONTRACTOR		ADDRESS		PHONE			
Amber D. Hanes		2112 South Third St. Malheur					
ELECTRICAL		ADDRESS		PHONE			
Sub							
PLUMBING		ADDRESS		PHONE			
Sub							
MECHANICAL		ADDRESS		PHONE			
Sub							
USE OF BUILDING							
residential							
CLASS OF WORK: <input checked="" type="checkbox"/> NEW <input type="checkbox"/> ADDITION <input type="checkbox"/> ALTERATION <input type="checkbox"/> REPAIR <input type="checkbox"/> DEMOLISH							
DESCRIBE WORK.							
build new home							
TYPE OF CONST.		SQ. FT.		NO. OF STORIES			
Irish		2828'		1			
NO. OF BEDROOMS		NO. OF BATHS		FOUNDATION			
4		3 1/2		Concrete			
ROOF		SPRINKLERS REQUIRED		PARKING SPACES			
Comp.		-		-			
NO. OF DWELLING UNITS		ZONING		OCCUPANCY GROUP			
1		SF		SF			
<p><b>NOTICE</b></p> <p>THIS PERMIT BECOMES NULL AND VOID IF WORK OR CONSTRUCTION AUTHORIZED IS NOT COMMENCED WITHIN 6 MONTHS, OR IF CONSTRUCTION OR WORK IS SUSPENDED OR ABANDONED FOR A PERIOD OF 1 YEAR AT ANY TIME AFTER WORK IS COMMENCED.</p> <p>THE ISSUANCE OF THIS PERMIT SHOULD NOT BE CONSTRUED BY ANY PERSON AS AN APPROVAL OF BUILDING OR CONSTRUCTION TECHNIQUES, METHODS, OR MATERIALS.</p>				<p>I HEREBY CERTIFY THAT I HAVE READ AND EXAMINED THIS APPLICATION AND KNOW THE SAME TO BE TRUE AND CORRECT. ALL PROVISIONS OF LAW AND ORDINANCES GOVERNING THIS TYPE OF WORK WILL BE COMPLIED WITH WHETHER SPECIFIED HEREIN OR NOT. THE GRANTING OF A PERMIT DOES NOT PRESUME TO GIVE AUTHORITY TO VIOLATE OR CANCEL THE PROVISIONS OF ANY OTHER STATE OF LOCAL LAW REGULATING CONSTRUCTION OR THE PERFORMANCE OF CONSTRUCTION.</p> <p>SIGNATURE: <i>[Signature]</i></p> <p>VALUATION: \$ 282,000.00</p> <p>PERMIT FEE \$ 381.75</p> <p>APPROVED FOR ISSUANCE BY: Vicki Stechler</p> <p>DATE: 8-31-07</p>			
SPECIAL CONDITIONS:							
THIS BECOMES YOUR PERMIT WHEN APPROVED FOR ISSUANCE							





THIS AREA IS RESERVED BY  
DEVELOPER FOR FUTURE  
DEVELOPMENT.

FOUND  
T-POST

PLATTED  
320' ELE

415/61

INA MUNICIPAL  
EASEMENT  
STRUCTURES TO  
T ON EASEMENT

PRIVATE USE  
BOAT LAUNCH  
CONC.  
MON.

5/8\"/>

# OSSF Soil & Site Evaluation

Page 1 (Soil & Site Evaluation)

Date Performed: 10/12/07

Property Owner: Rivera Residence

Site Location: Zontacua Dr. Corsicana, TX 75099 Proposed Excavation Depth: 20 to 26"

## REQUIREMENTS:

At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area. Locations of soil borings or dug pits must be shown on the site drawing. For subsurface disposal, soil evaluations must be performed to a depth of at least two feet below the proposed disposal field excavation depth. For surface disposal, the surface horizon must be evaluated. Describe each soil horizon and identify any restrictive features on this form. Indicate depths where features appear.

Soil Boring Number: <u>1</u>					
Depth (Feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
1 FT.	<u>III</u>	<u>NA</u>	<u>NO</u>	<u>NO</u>	<u>CL</u>
2 FT.	<u>II</u>				<u>Clay</u>
3 FT.	<u>I</u>				
4 FT.					
5 FT.					

Soil Boring Number: <u>2</u>					
Depth (Feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
1 FT.	<u>III</u>	<u>NA</u>	<u>NO</u>	<u>NO</u>	<u>CL</u>
2 FT.	<u>II</u>				<u>Clay</u>
3 FT.	<u>I</u>				
4 FT.					
5 FT.					

## FEATURES OF SITE AREA

Presence of 100 year flood zone

Presence of upper water shed

Presence of adjacent ponds, streams, water impoundments

Existing or proposed water well in nearby area (within 150 feet)

Ground Slope

- ☐ Yes ☒ No  
☐ Yes ☒ No  
☐ Yes ☒ No  
☐ Yes ☒ No

I certify that the findings of this report are based on my field observations and are accurate to the best of my ability.

Phillip Marlar P.E. #2604  
(Signature of person performing evaluation)

10-12-07  
(Date)

SE#19819  
Registration Number and Type

Page 2 (Soil & Site Evaluation):

Date Performed: 10/12/07

Site Location: Tontawa Dr. Corsicana 302109 ☒ Subsurface Disposal ☐ Surface Disposal

Schematic of Lot or Tract

Show:

Compass North, adjacent streets, property lines, property dimensions, location of buildings, easements, swimming pools, water lines, and any other structures where known, all to scale.

Location of existing or proposed water wells within 150 feet of the property.

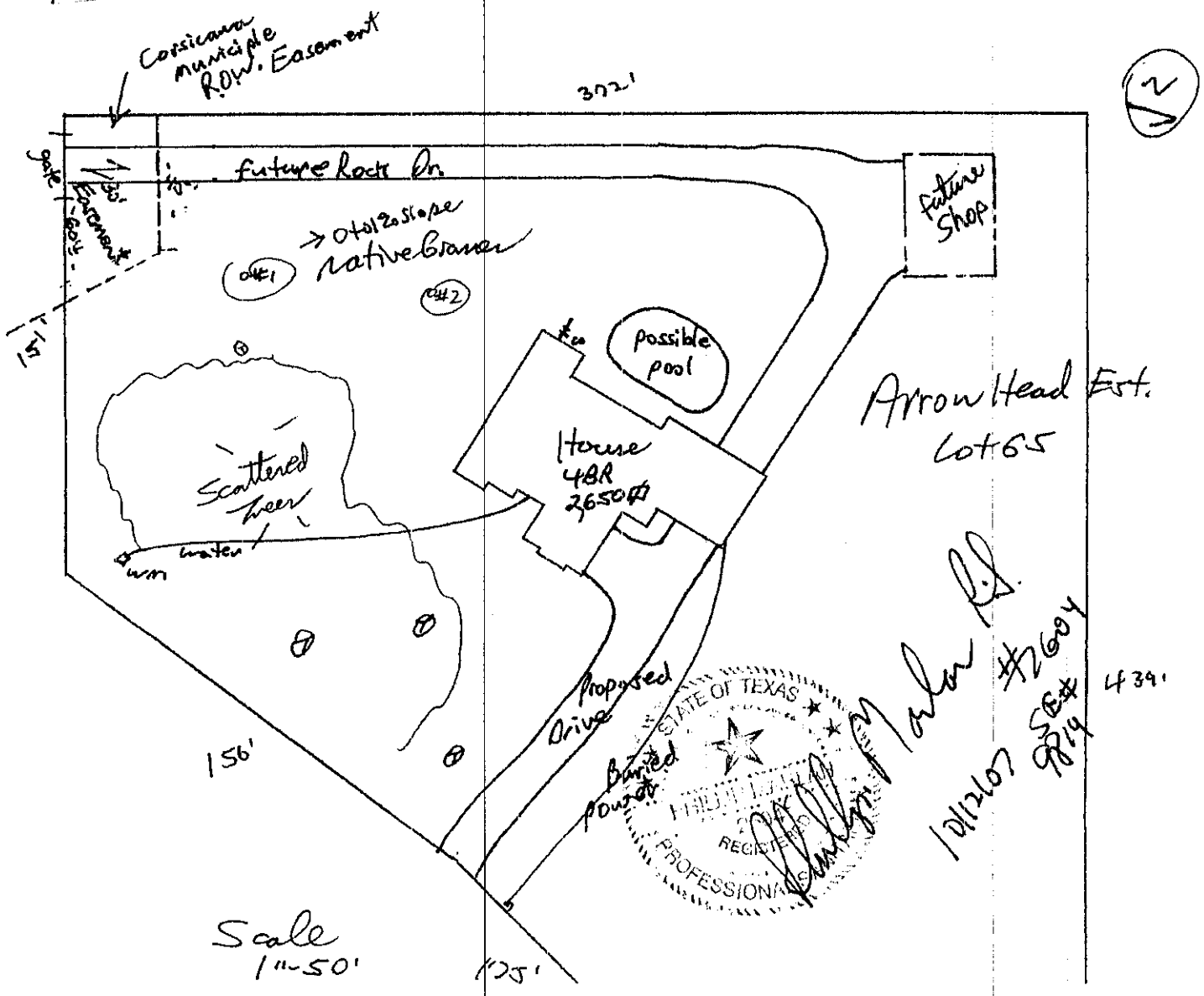
Indicate slope or provide contour lines from the structure to the farthest location of the proposed disposal field.

Location of soil boring or excavation pits (show location with respect to a known reference point).

Location of natural, constructed, or proposed drainage ways (ditches, streams, ponds, lakes, rivers, etc.), water impoundment areas, cut or fill bank, sharp slopes and breaks.

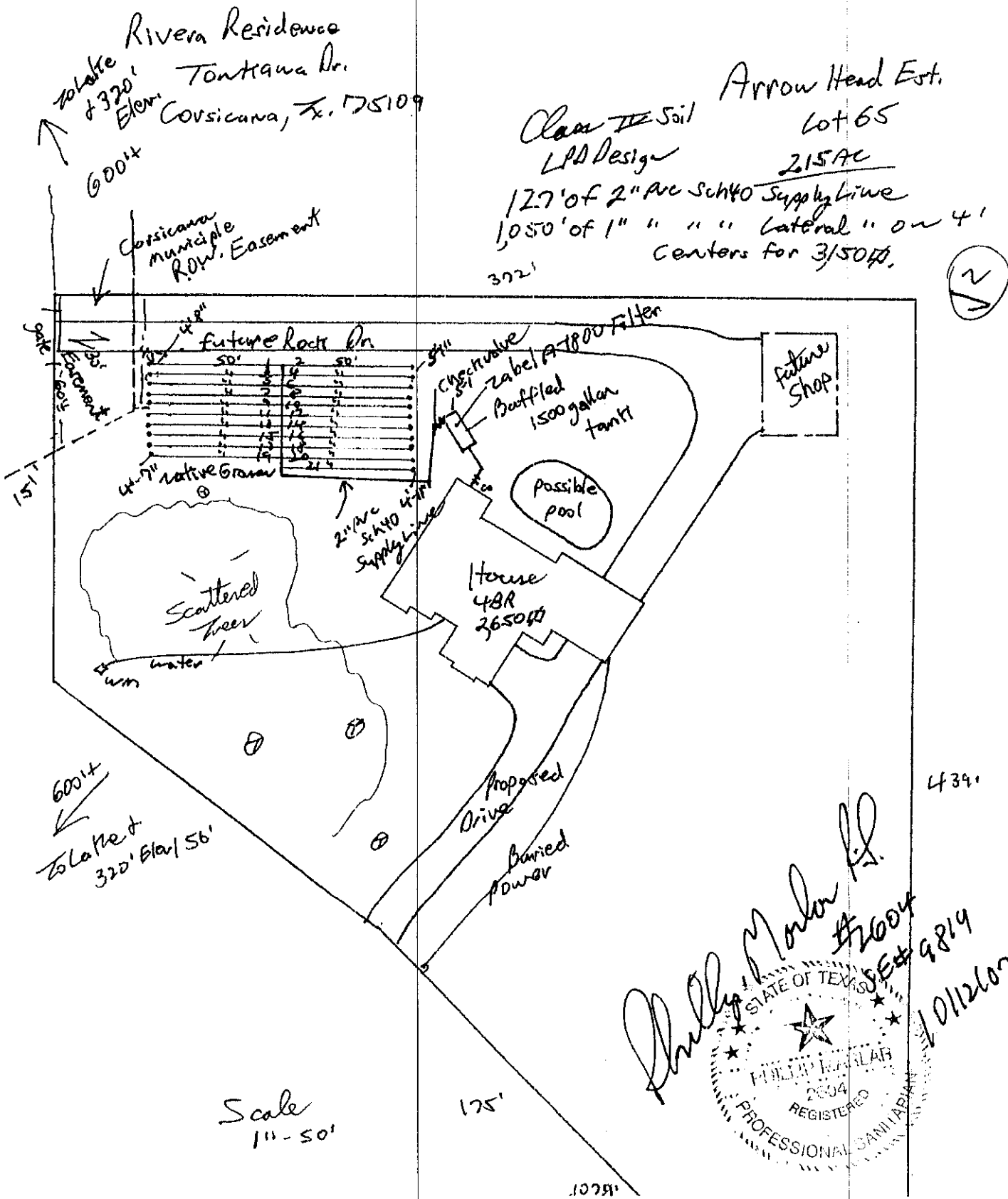
Lot Size: \_\_\_\_\_ or Acreage: 2.15 AC

SITE DRAWING





Phillip Marlar R.S.  
 Professional Registered Sanitarian # 2604  
 Certified Site Evaluator OS 9819  
 P.O. Box 274 Scurry, Texas 75158  
 Phone (972)452-8487 / Fax (972)452-8734



**Phillip Marlar R.S.  
Registered Professional Sanitarian  
Certified Site Evaluator OS 6352  
P.O. Box 274 Scurry, Texas 75158  
Phone (972) 452-8487**

October 12, 2007

Tarrant County Water Control District Designated Representative

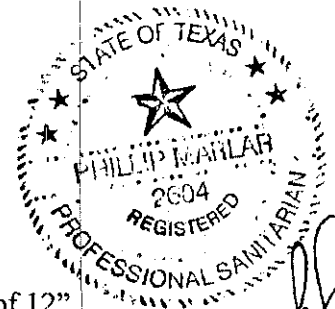
Subject Property: Rivera's Residence at Tonkawa Dr. Corsicana, Texas 75109  
Subject Design: Low Pressure Dosing System (Arrow Head Est. lot 65)

**Design Parameters:**

4 Bedroom House (2,650 sq ft living area) (4 Bedroom Equivalent)  
4 Bedroom House ( water saving fixtures) = 300 gpd  
Soil Evaluation Class IV soil  
Long Term Loading Rate .1 gal / sq ft / day  
Required Absorption Area = 300 gpd / .1 gal / sq ft / day = 3,000 sq ft  
Designed Absorption Area = 3,150 sq ft  
Total Length of Laterals = 1,050'

**System Parameters**

1 - 1,500 gallon tank  
A Zabel A-1800 filter in the outlet of the second tank chamber  
A 500 gallon pump tank chamber with high water alarm  
Supply Line - 2" diameter sch 40 piping  
Lateral Lines - 1 "diameter sch 40 piping  
Supply Line Length - 127'  
Lateral Line Length - 1,050'  
Hole Size in Laterals - 1/8"  
Hole Spacing - 6' (See attached chart)  
# Holes - 168  
Elevation Head - 5.5'  
Friction Head - 4.78' (using 3.14 friction rate)  
Pressure Head - 2' (Operating Head)  
Total Head - 12.28 Ft  
.5 HP Barnes EHV pump with 12.28 Ft head will pump 60 gpm  
GPM at 2 ft Operating Head = 43.68 gpm  
Type Pump - .5 HP Submersible Barnes EHV or **equivalent**  
Pump at 43.68 gpm will deliver 22 ft. head  
Lateral Depth - 20 to 26" (Average Depth 23")  
Excavation width 6" to 1' wide Rock - washed clean 3/8 to 1"  
Rock Depth - at least 10" + under the pipe (laterals) then another 2" for total of 12"  
Volume Supply Line - 20.57 gallons Volume Laterals - 43.05 gallons  
Volume Supply & Laterals - 63.62 gallons Check Valve Required - Yes; due to elevation



*Phillip Marlar*  
#604  
SE# 9810  
10/12/07

**Phillip Marlar R.S.  
Registered Professional Sanitarian  
Certified Site Evaluator OS 6352  
P.O. Box 274 Scurry, Texas 75158  
Phone (972) 452-8487**

Minimum Required Dosing - 235.82 gallons  
Proposed Dosing Volume - 237.6 gallons  
(27" of effluent depth in pump tank to be pumped at a time)



*Phillip Marlar R.S.*  
#2604  
56#  
98"  
10/12/07

**Phillip Marlar R.S.**  
**Registered Professional Sanitarian**  
**P.O. Box 274 Scurry, Texas 75158**  
**Phone (972) 452-8487**

**Sylvia Vega LPD - OSSF Specifications**

Line	Length	Pressure Head	Hole Space	# Holes	Hole Size	Flow GPM/Hole	Rate GPM/Line	GPM/Ft./Line
1	50'	2'	6'	8	1/8"	.26	2.08	0.041
2	50'	2'	6'	8	1/8"	.26	2.08	0.041
3	50'	2'	6'	8	1/8"	.26	2.08	0.041
4	50'	2'	6'	8	1/8"	.26	2.08	0.041
5	50'	2'	6'	8	1/8"	.26	2.08	0.041
6	50'	2'	6'	8	1/8"	.26	2.08	0.041
7	50'	2'	6'	8	1/8"	.26	2.08	0.041
8	50'	2'	6'	8	1/8"	.26	2.08	0.041
9	50'	2'	6'	8	1/8"	.26	2.08	0.041
10	50'	2'	6'	8	1/8"	.26	2.08	0.041
11	50'	2'	6'	8	1/8"	.26	2.08	0.041
12	50'	2'	6'	8	1/8"	.26	2.08	0.041
13	50'	2'	6'	8	1/8"	.26	2.08	0.041
14	50'	2'	6'	8	1/8"	.26	2.08	0.041
15	50'	2'	6'	8	1/8"	.26	2.08	0.041
16	50'	2'	6'	8	1/8"	.26	2.08	0.041
17	50'	2'	6'	8	1/8"	.26	2.08	0.041
18	50'	2'	6'	8	1/8"	.26	2.08	0.041
19	50'	2'	6'	8	1/8"	.26	2.08	0.041
20	50'	2'	6'	8	1/8"	.26	2.08	0.041
21	50'	2'	6'	8	1/8"	.26	2.08	0.041
Totals	1,050'			168			43.68	

Lateral lines to be 20 to 26" in depth.  
Average line depth will be 23" in depth.  
Entire field only varies by 6".

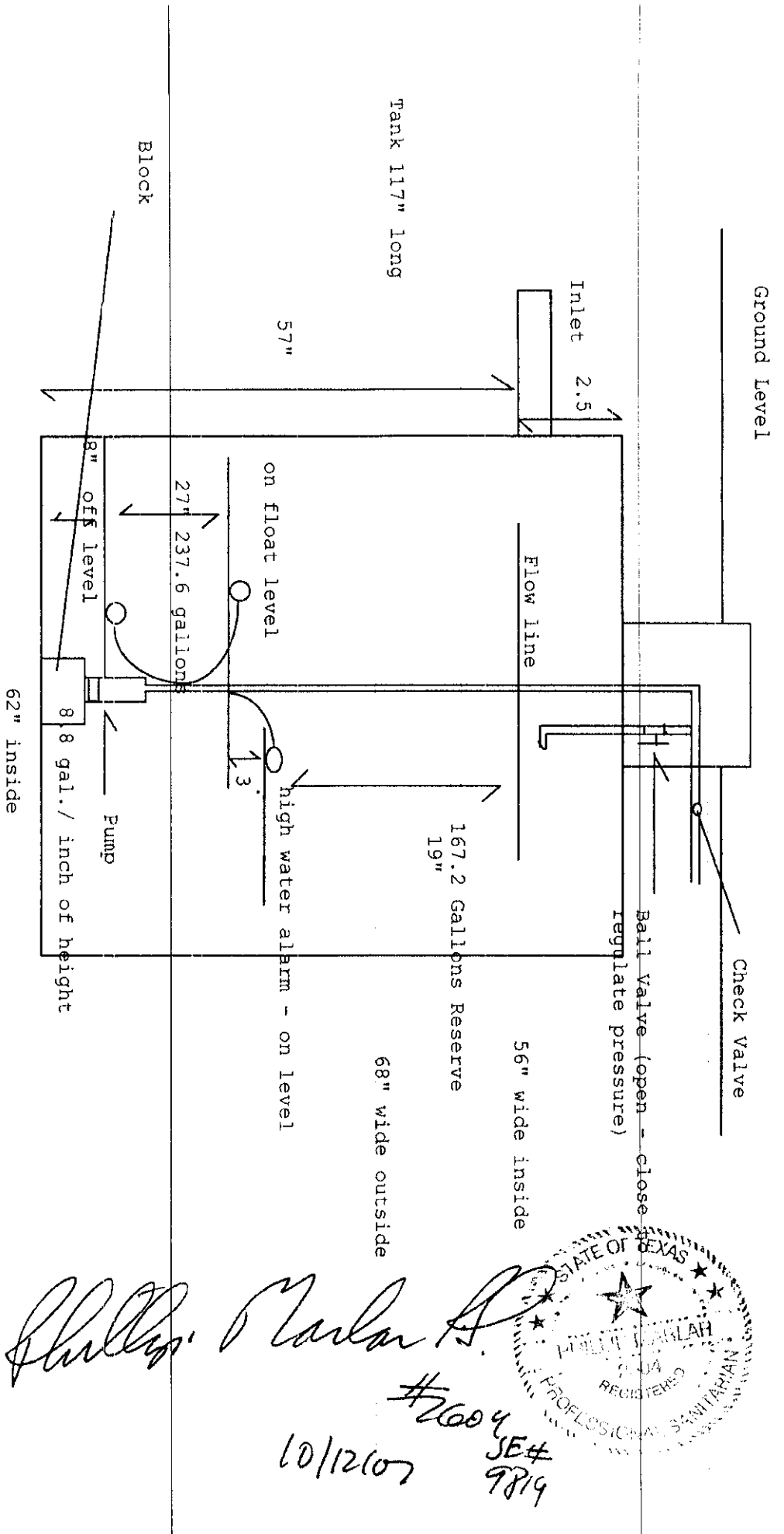


*Phillip Marlar*

10/12/07

*RS*  
#2624  
SE#9819

500 Gallon CPI pump tank  
chamber on 1 piece (1,500  
gallon baffled tank)



Pump Time 5.43 minutes for  
237.6 gallons at 43.68 gpm  
at .86 psi.

Total Head 12.28 FT at 43.68  
gpm for 2" Sch 40 PVC  
piping.

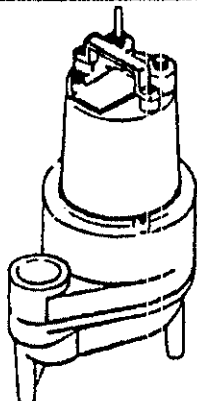
1/2 HP Barnes EHV @ 43.68  
gpm will deliver 22 FT total  
head.

*Phillip Parker*  
#2604 SE# 9819  
10/12/07  
STATE OF TEXAS  
PHILIP PARKER  
REGISTERED  
PROFESSIONAL SANITARIAN

# BARNES® EHV

**SUBMERSIBLE EFFLUENT PUMPS**  
**3/4" Spherical Solids Handling**

SECTION	B
PAGE	1
DATE	12/89
REPLACES	2/89



**Series: EHV .5 HP 3450RPM**



CSA 108 - File No. LR11087  
 UL 778

**NRTLIC**

**Description:**

PUMP IS DESIGNED FOR HANDLING SEWAGE  
 EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT  
 APPLICATIONS.

**DISCHARGE:**  
**LIQUID TEMPERATURE:**  
**MOTOR HOUSING:**  
**PUMP BODY:**  
**IMPELLER:**

*Design:*  
*Material:*

2" (51mm) N.P.T. Female, Vertical,  
 77°F (25°C) Continuous.

Cast Iron  
 Cast Iron  
 Multi-Vane Vortex  
 Cast Iron

**SHAFT:**  
**O-RINGS:**  
**HARDWARE:**  
**PAINT:**  
**CABLE ENTRY:**

420 Stainless Steel  
 Buna-N  
 300 Series Stainless Steel  
 Air Dry Enamel  
 20 ft. (6M) Cord with Plug and  
 Pressure Grommet for Sealing and  
 Strain Relief.

**SEAL:**

*Design:*  
*Material:*

Single Mechanical, Oil-Filled Reservoir,  
 Rotating Faces - Ceramic  
 Stationary Faces - Carbon  
 Elastomer - Buna-N  
 Hardware - 300 Series Stainless  
 3450 RPM

**SPEED:**  
**UPPER BEARING:**

*Design:*

Single Row, Ball

**LOWER BEARING:**

*Design:*

Single Row, Ball

**MOTOR:**

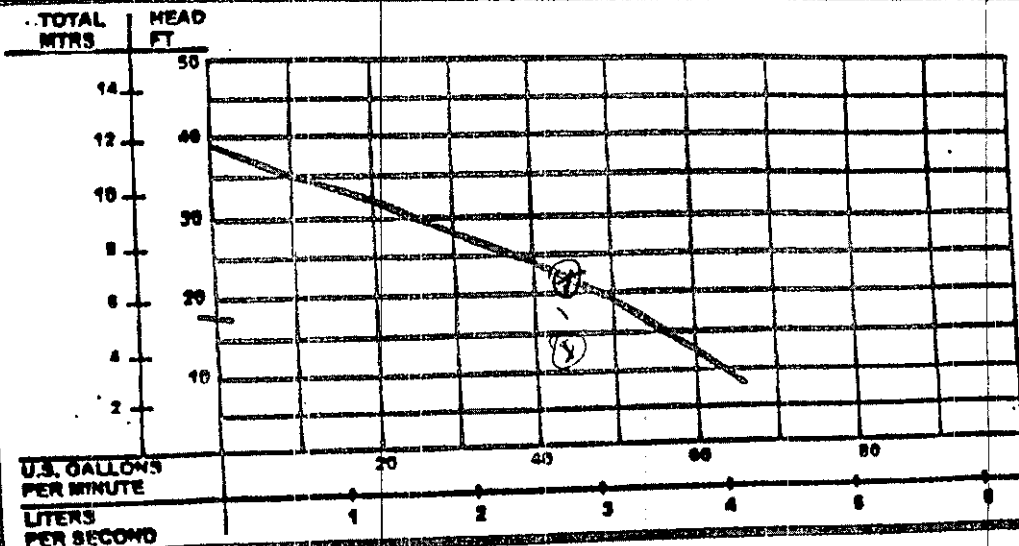
*Design:*  
*Insulation:*

Oil-Filled,  
 Class B,  
 Permanent Split Capacitor (PSC),  
 Includes Overload Protection in Motor.

**SINGLE PHASE:**

None  
 Wide Angle, Mechanical, 20R (RM) Cable,  
 Pipe Mounted,  
 Vertical Float, PVC, Snap Action.

**FLOAT:** EHV412  
 EHV412A  
 EHV412VF



Testing is performed  
 with water, specific  
 gravity of 1.0 @ 68° F,  
 other fluids may vary  
 performance.

**CRANE®**

A Crane Co. Company

**PUMPS & SYSTEMS**

Barnes Pumps, Inc.  
 Distributor Sales & Service Dept.  
 420 Third Street P.O. Box 603  
 Piquette, Ohio 45356-0603  
 PH: (937) 615-3595  
 FAX: (937) 773-7157

Barnes Pumps, Inc.  
 Bid-To-Spec & Project Sales  
 1485 Lexington Ave.  
 Mansfield, Ohio 44907-2674  
 PH: (419) 774-1511  
 FAX: (419) 774-1530

Barnes Pumps Canada, Inc.  
 53 West Drive  
 Brampton, Ontario  
 Canada L6T 2J8  
 PH: (905) 457-6223  
 FAX: (905) 457-2050

**Member**  
**SUP**  
**MEMBER**

235.82



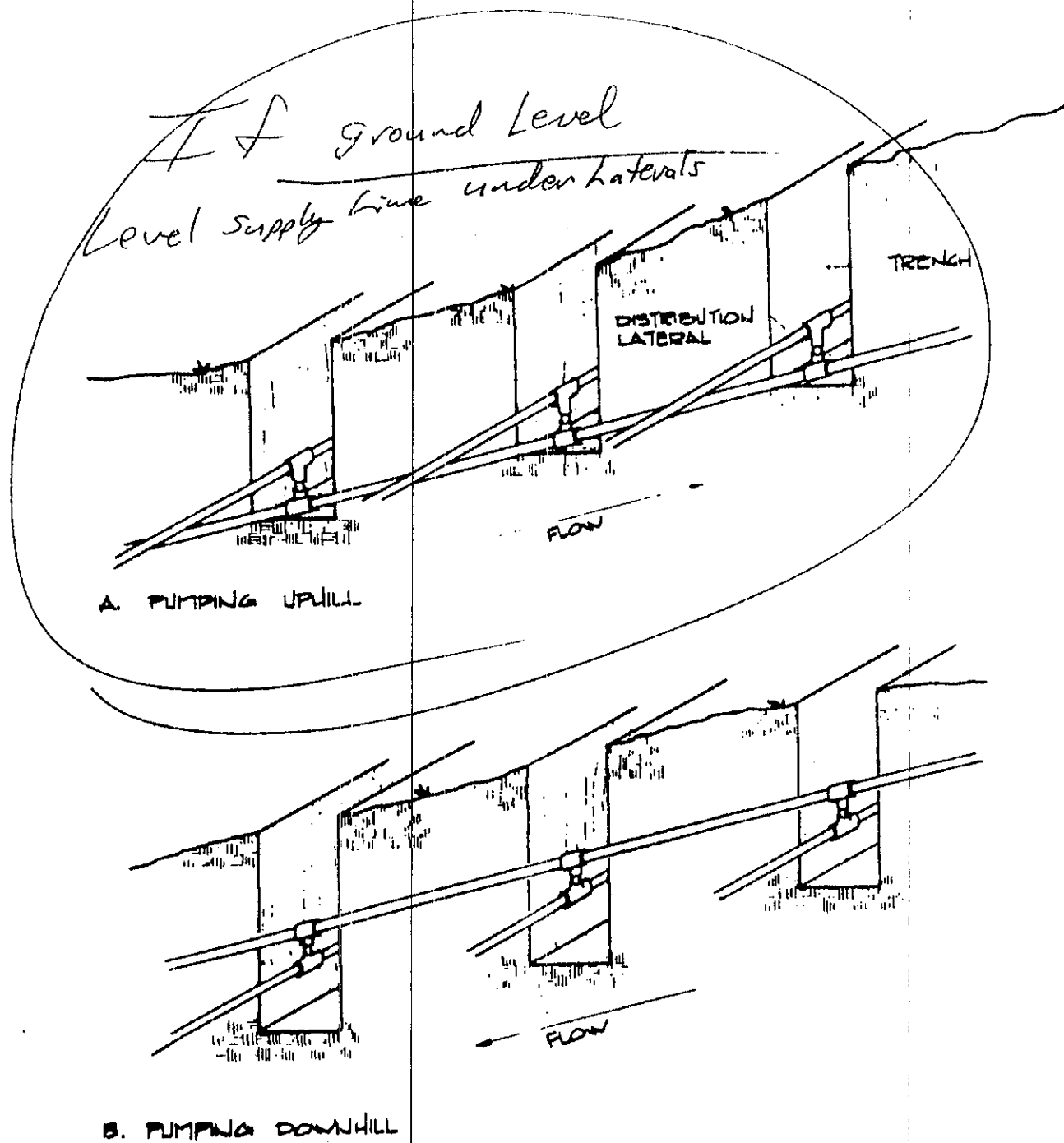


Figure 10. Manifold placement on slopes