

DATE
10/28/96

PERMIT#
77398



Comal County
OFFICE OF ENVIRONMENTAL HEALTH

LICENSE TO OPERATE A PRIVATE SEWAGE FACILITY

OWNER(L) Fair	FIRST Ralph E.	DEVELOPMENT	STREET FM 3351/ Ralph Fair
UNIT	BLOCK	LOT	ACRES/TRACT 1000+

This license is authorization for the owner to operate and maintain a private facility at the location described in accordance to the rules and regulations for on-site sewerage facilities of Comal County, Texas, and the Texas Natural Resource Conservation Commission.

The license grants permission to operate the facility. It does not guarantee successful operation. It is the responsibility of the owner to maintain and operate the facility in a satisfactory manner.

Inspection and licensing of a facility indicates only that the facility meets certain minimum requirements. It does not impede any governmental entity in taking the proper steps to prevent or control pollution, to abate nuisance, or to protect the public health.

This license to operate is valid for an indefinite period. It may be transferred by the holder to a succeeding owner, provided the facility has not been remodeled and is functioning properly.

THE FACILITY IS LICENSED FOR

<input checked="" type="checkbox"/> SINGLE FAMILY RESIDENCE	TOTAL SQUARE FEET OF DWELLING 2800
<input type="checkbox"/> INSTITUTION	TYPE OF BUSINESS/INSTITUTION

THE FACILITY CONSISTS OF

SYSTEM TYPE Proprietary	SYSTEM DESCRIPTION Aerobic Treatment & Surface Irrigation	
GALLON TANK 500/500/750	SQUARE FEET ABSORPTION AREA 5892	SWITCHING VALVE? YES/N No

SPECIAL CONDITIONS

INSPECTOR <i>P. Kriss</i>	COMAL COUNTY ENGINEER <i>[Signature]</i>
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APPLICATION FOR A PERMIT TO CONSTRUCT A PRIVATE SEWERAGE FACILITY AND LICENSE TO OPERATE

DATE Aug 28 1996 * VALID FOR 12 MONTHS * PERMIT NO.: 77398

PROPERTY OWNER'S NAME RALPH E. FAIR PHONE NO. 698-1756

ADDRESS 30267 RALPH FAIR ROAD PHONE NO.

FAIR OAKS RANCH, TEXAS

ZIP CODE 78006

DESCRIPTION OF PROPERTY: SUBDIVISION _____

STREET NAME: _____ UNIT _____ LOT _____ BLK _____

IF NOT IN SUBDIVISION, GIVE NAME OF FM ROAD FM 3351 / RALPH FAIR ACREAGE 1000 ±

LOCATION? DIRECTIONS/MAP TO PROPERTY IS ATTACHED X PROOF OF OWNERSHIP ATTACHED X

PROPERTY LOCATED OVER EDWARDS RECHARGE ZONE? _____ IF SO, WERE (4) PERC HOLES DUG? _____

TYPE OF DEVELOPMENT:

X SINGLE FAMILY RESIDENCE 4 DESIGNATED BDRMS 2400 TOTAL SQ. FT. LIVING AREA

SIZE OF SEPTIC SYSTEM REQUIRED BASED ON LIVING AREA 1250 GALLONS (DUAL TANK)

260 L.F. SIZE OF DRAINFIELD 3.0' SIZE OF TRENCHES

N/A TYPE OF INSTITUTION N/A IF COMMERCIAL, TYPE OF BUSINESS _____

2 NUMBER OF OCCUPANTS 150 ESTIMATED GALLONS PER DAY

N/A INSTITUTIONS (GENERATING MORE THAN 500 GALLONS PER DAY)

SOURCE OF WATER: X PUBLIC _____ PRIVATE _____

IS AN ORGANIZED DISPOSAL SYSTEM WITHIN 300 FEET OF THE PROPOSED SYSTEM? No

ALL SYSTEMS MUST BE DESIGNED BY A PERCOLATION ENGINEER OR REGISTERED SANITARIAN.

PERCOLATION TEST RESULTS AND DESIGN ARE ATTACHED Yes

INSTALLERS NAME: B. Georg

I CERTIFY THAT THE COMPLETED APPLICATION AND ALL ADDITIONAL INFORMATION SUBMITTED DOES NOT CONTAIN ANY FALSE INFORMATION AND DOES NOT CONCEAL ANY MATERIAL FACTS. AUTHORIZATION IS HEREBY GIVEN TO THE LICENSING AUTHORITY AND AGENTS TO ENTER UPON THE ABOVE DESCRIBED PROPERTY FOR THE PURPOSE OF LOT EVALUATION AND INSPECTION OF PRIVATE SEWERAGE FACILITIES.

[Signature] (SIGNATURE OF OWNER OR DESIGNATED AGENT)
IF SIGNED BY AGENT - GIVE ADDRESS AND PHONE NO. ACES, 125 W. SUNSET, 78209

INSPECTOR FOR COMAL COUNTY P. Kriss DATE OF FINAL INSPECTION 10/28/96

DATE RECORDED IN BLUE BOOK AND ON SUMMARY SHEET 10/24/97

DATE LICENSE TO OPERATE MAILED TO OWNER 10/27/97

(IF INSTALLATION IS DIFFERENT FROM DESIGN THE INSPECTOR HAS MADE DESIGN OF ACTUAL INSTALLATION SIZES AS OF FINAL INSPECTION:

500/500/750 TANK

3892 TRENCH

FIELD Application Area

COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH
PERMIT TO CONSTRUCT
 MINIMUM REQUIRED SIZES FOR SYSTEM
 CALL 608-2094 TO SCHEDULE INSPECTIONS
 VALID FOR ONE YEAR

DATE 10/02/96	RE-ISSUED	<u>AEROBIC SYSTEM</u>
<input checked="" type="checkbox"/> SINGLE FAMILY RESIDENCE <input type="checkbox"/> INSTITUTION LESS THAN 500 GALLONS PER DAY <input type="checkbox"/> INSTITUTION GREATER THAN 500 GALLONS PER DAY PER ENGINEER OR SANITARIAN DESIGN <input type="checkbox"/> ALTERNATIVE SYSTEMS PER ENGINEER OR SANITARIAN DESIGN		
PERMIT # 77398	OWNER RALPH E. FAIR	LOT
SUBDIVISION 1000+ ACRES	STREET FM 3351/RALPH FAIR ROAD	
APPROVED MINIMUM SIZES:		
GALLON TANK G-500 AEROBIC/500 TRASH/750 PUMP	SQ. FT. BRANDERS APPLICATION AREA 5892	SQ. FT. TRENCH (18"-36" WIDE)
<input type="checkbox"/> SPECIAL CONDITIONS		

White - ORIGINAL

Canary - FILE

COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH
PERMIT TO CONSTRUCT
 MINIMUM REQUIRED SIZES FOR SYSTEM
 CALL 608-2094 TO SCHEDULE INSPECTIONS
 VALID FOR ONE YEAR

VOID

DATE 9/06/96

COLLECTIVE SYSTEM

- SINGLE FAMILY RESIDENCE
- INSTITUTION LESS THAN 500 GALLONS PER DAY
- INSTITUTION GREATER THAN 500 GALLONS PER DAY PER ENGINEER OR SANITARIAN DESIGN
- ALTERNATIVE SYSTEMS PER ENGINEER OR SANITARIAN DESIGN

PERMIT # 77398	OWNER RALPH E. FAIR	LOT
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SUBDIVISION 1000+ ACRES	STREET FM 3351/RALPH FAIR
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APPROVED MINIMUM SIZES:

GALLON TANK 1250	SQ. FT. DRAINFIELDS	SQ. FT. TRENCH (18"-36" WIDE) 780
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SPECIAL CONDITIONS

PERMIT INFORMATION SHEET

DATE OF APPLICATION	DATE PERMIT TO CONSTRUCT ISSUED	PERMIT NUMBER	DATE OF PRELIM.	DATE OF FIRST INSPECTION	DATE OF SECOND INSPECTION	DATE OF THIRD INSPECTION
9/4/96	9-6-96	77398				

LOCATION: _____

DATE OF FLOOD ZONE ADMINISTRATOR APPROVAL: N/A

CONVENTIONAL OR ALTERNATIVE: _____

DESIGNED BY: _____

WAS ROCK FOUND? _____

METHOD USED TO REMOVE ROCK: _____

INSPECTORS CHECK LIST FOR COMAL COUNTY - TRENCH SYSTEM

FIRST INSPECTION:

- trenches are looped (on level terrain)
- trenches are not to exceed 75' without feeder line
- trench depth is 18" to 36"
- trench bottom is level within one inch
- trench width is 12" to 36"
- distance between parallel trenches is 3 times trench width of 5 feet
- trench walls are not smeared as to be rocked
- no obvious signs of groundwater seepage
- set back from private and public water wells are observed by 150' radius
- a 4" pad of sand, sandy loam, or approved material under tank
- no problem exist with adjacent property owners water well or septic system
- surface improvements distance is observed at 15'
- 50: from slopes or breaks in terrain more than 30% is kept
- square footage is the required amount as designed by R.S., P.E. or installer
- installation is as designed or give reason for difference in writing

SECOND INSPECTION:

- trenches have graded gravel, broken brick, washed rock crushed stone or similar aggregate 3/4" to 2" in size
- bulkhead trench system should have a minimum of 16" drop from bottom of outlet to bottom of first trench
- tank is 5' from foundation
- dual tanks or dual compartment used
- gallon of tank meets number of bedrooms in structure
- structure is built and hooked up to septic system
- 12" of gravel is used throughout the system
- sandy loam is on site and excavated material is removed or used on landscaping
- at least 12" drop from bottom of outlet to bottom of trench
- a clean out plug must be provided within 3' of the building with 90° turn in alignment, both horizontal and vertical, then at every 50' of tightline
- effluent pump tanks will have a minimum capacity of 500 gallons
- sewer pipe from house to tank and from tank to field shall be SDR 35, or ASTM 3034 or 2000#Crush (as approved by the State Health Dept.)
- covering of several layers of newspaper, one layer of butcher, hay 1" to 2" thick or geotextile filter fabric for decomposable
- pipe from house to tank minimum inside diameter not less than 3"
- 10" port shall be provided to each flow line device
- distribution pipe shall consist of plastic perforated pipe 4" corrugated polyethylene, or equivalent materials with SDR rating
- tanks have proper construction - 3" thickness for tank lids
- slope of house plumbing to tank inlet no less than 1/4" per foot
- slope of pipe from tank to disposal area at least 1/8" per foot

THIRD INSPECTION:

- system is covered with sandy loam and mounded

INSPECTOR

Brenda - please
send out a
PTE on Aerobie

hw
10-01-96

ENVIRONMENTAL HEALTH DEPARTMENT

INSPECTOR _____

DATE: _____

PERMIT INSPECTIONS:

DATE OF APPLICATION	PERMIT NUMBER	LOCATION	DATE OF FIRST INSPECTION	DATE OF SECOND INSPECTION	DATE OF THIRD INSPECTION
9/4/96	9-696		10/24/96	—	10/28/96

COMMENTS: Re-Issued 10-1-96

EP - N/A

Service Agreement - rec'd ✓

Affidavit - rec'd ✓

INSPECTORS CHECK LIST FOR COMAL COUNTY - PRESSURE DOSING SYSTEMS

- must consist of following:
 - approved sewerage system
 - an effluent holding tank
 - an easily serviced screened intake electric pump which is activated by a float or programed start/stop switch
 - a solid wall from main
 - perforated distribution piping which is installed within the absorption area
- the effluent pump must:
 - be capable of an operating range that will assure that effluent is delivered to the most distant point of the perforated piping network
 - programed start/stop switch should allow the pump to operate at least three times during the 24 hour day.
 - a high water alarm, on an electric circuit separate from the pump, must be provided.
 - after the alarm activates, the effluent holding tank shall have remaining capacity of 500 gallons for residences and 1000 gallons for businesses and institutions.
 - the number of perforated per length used per absorption area must be adequate to assure uniform liquid distribution over the entire bed area

Note: at the discretion of the local regulatory agent, pressure dosing systems must be designed by a R.S. or P.E.

10/28/96

~~Need As Built from Menzel~~

8-26-97 Bobby Georg Installer II will send as installed → one sprinkler head as been relocated.

Chris H. Menzel, R.S.
Environmental Consultant
 265 Danube Pass, Boerne, TX 78006

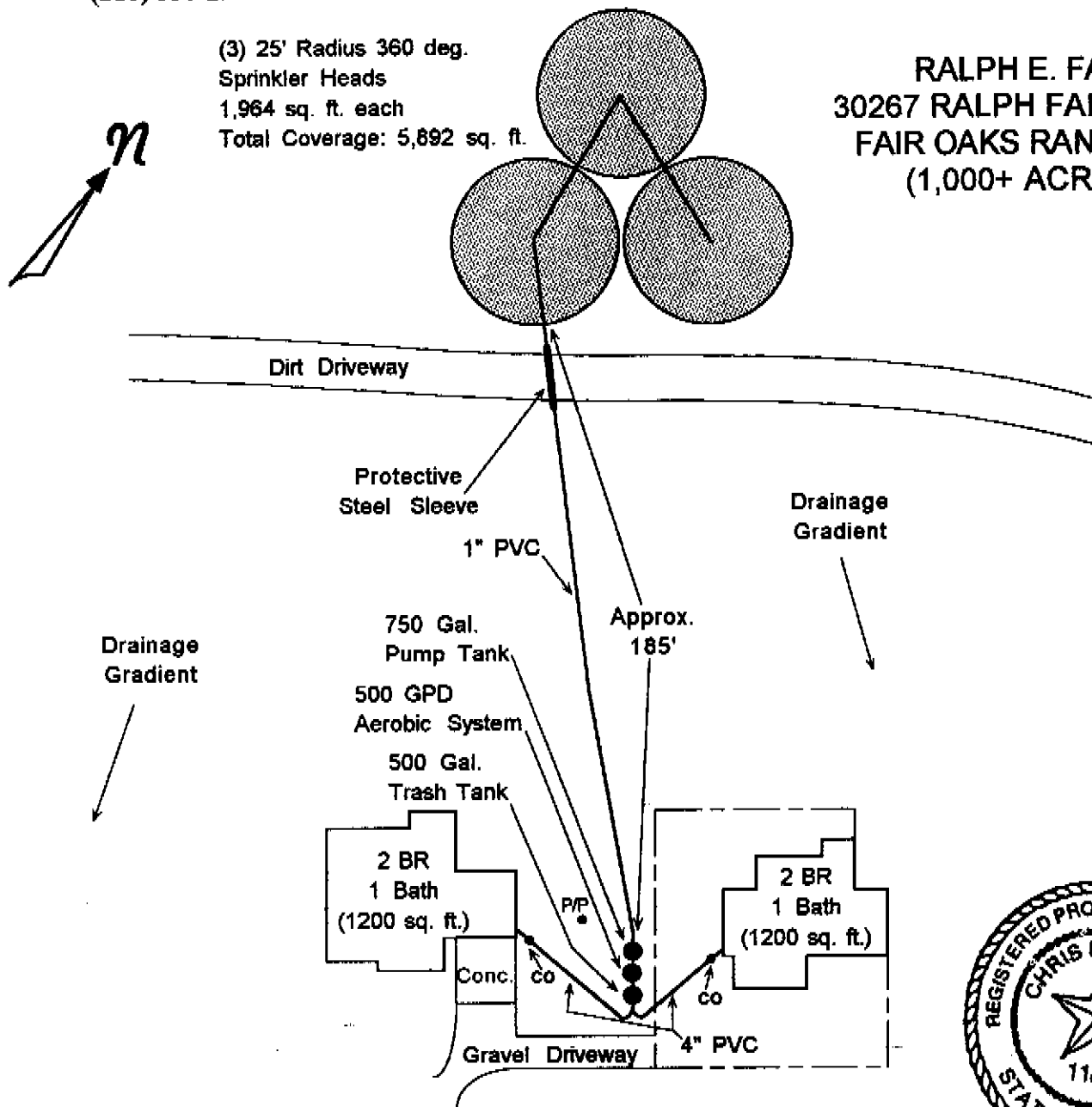
REVISED
 9-30-96
 77398

(210) 336-2989

(Fax) (210) 336-2975

(3) 25' Radius 360 deg.
 Sprinkler Heads
 1,964 sq. ft. each
 Total Coverage: 5,892 sq. ft.

RALPH E. FAIR
 30267 RALPH FAIR ROAD
 FAIR OAKS RANCH, TX
 (1,000+ ACRES)



Scale: 1" = 50'

This design is based on rules and guidance standards developed by the Texas Natural Resources Conservation Commission and, under normal conditions and proper installation, should be expected to function in a satisfactory manner. In addition, I have reviewed the plans to verify that there are no other rooms that could be converted into a bedroom.

Chris H. Menzel
 CHRIS H. MENZEL
 REGISTERED PROFESSIONAL SANITARIAN
 R.S. # 1183 DATE: 9-26-96

COMAL COUNTY FLOOD PLAIN DEVELOPMENT PERMIT APPLICATION

PERMIT NO.

77398

77398

APPLICANT: RALPH E. FAIR PHONE #: 698-1756 DATE: 08/28/96

MAILING ADDRESS: 30267 RALPH FAIR ROAD
FAIR OAKS RANCH, TEXAS

PROPERTY LOCATION: (Attach Vicinity Map) 1000+ ACRES Fm 3351 RALPH FAIR

NATURE OF PROPOSED CONSTRUCTION:

RESIDENTIAL: X

NON-RESIDENTIAL: _____

OTHER: (SPECIFY) _____

PLACEMENT OF FILL: _____

ALTERATION OF NATURAL WATERWAY

OR WATER COURSE: _____

DESCRIPTION OF PROPOSED CONSTRUCTION:

NEW CONSTRUCTION: X

HOUSE: _____

MOBILE HOME: _____

OTHER: (SPECIFY) _____

COST: \$ _____

SUBSTANTIAL IMPROVEMENT TO EXISTING

STRUCTURE: _____

NON-RESIDENTIAL: _____

COMMERCIAL: _____

Are proposed buildings located in a Special Flood Hazard Area? NO

Applicant will provide Plans and Specifications of the proposed construction.

Is a WATER POLLUTION ABATEMENT PLAN required? YES _____ NO X

EXEMPTION CERTIFICATE

The above named applicant has applied for a development permit.

The application has been reviewed by the County Administrator and it is his determination that the proposed development is not within an identified flood plain of Comal County.

This certificate exempts the applicant from development standards required by Comal County Flood Plain Management Regulations. Work is hereby authorized to proceed on the above.

The County Administrator has reviewed the plans and specifications of the proposed development and desires to make the following recommendations for development or design alterations:

WARNING:

The flood hazard boundary maps and other flood data used by the County Administrator in evaluating flood hazards to proposed developments are considered reasonable and accurate for regulatory purposes and are based on the best scientific and engineering data. On rare occasions greater floods can and will occur and flood heights may be increased by man-made or natural causes. This exemption certificate does not imply that developments outside the identified areas of special flood hazard will be free from flooding or flood damage. Issuance of this exemption certificate shall not create liability on the part of Comal County in the event flooding or flood damage does occur.

X
ACKNOWLEDGEMENT OF WARNING BY APPLICANT/AGENT

COUNTY ADMINISTRATOR

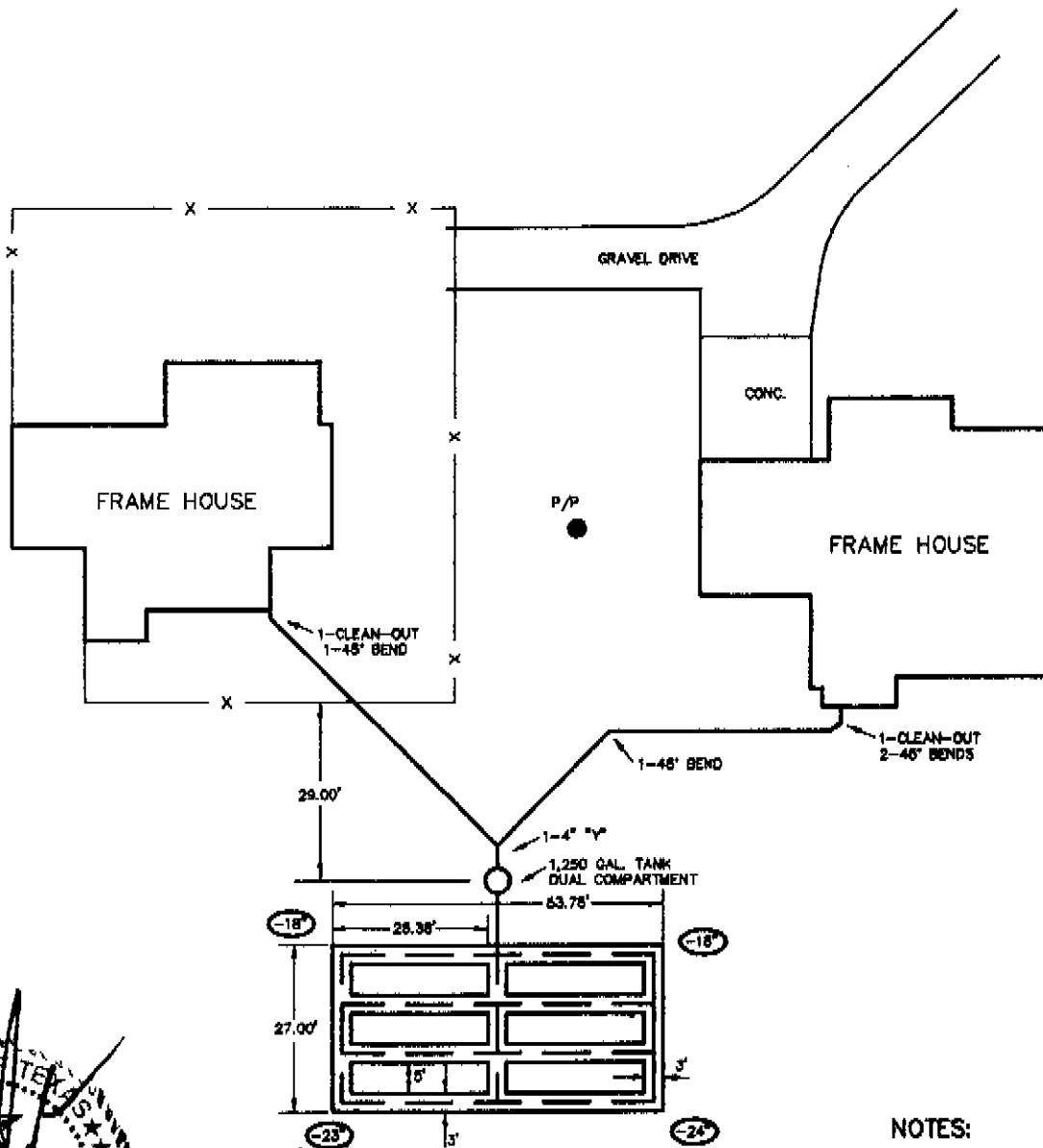
DATE:

DATE:



SCALE: 1"=30'

VOID



NOTES:

- 1) AREA IS TO BE COVERED WITH SANDY LOAM MATERIAL AND SEEDED.
- 2) ALL CONSTRUCTION SHALL CONFORM TO COMAL COUNTY SPECIFICATIONS.
- 3) DRAIN FIELD SHALL BE LOOPED AND LEVELED.
- 4) PERK TEST LOCATED AT CROSS OF DRAIN FIELD.
- 5) EXISTING SEPTIC TANK AND DRAIN SHALL BE COLLAPSED AND FILLED IN.

FAIR OAKS RANCH
FARM HOUSE
SEPTIC SYSTEM



ALAMO CONSULTING
ENGINEERING &
SURVEYING, INC.

DATE 08/14/96
JOB # 09377.02
FILE # WEISS

RECEIVED

SEP 18 1997

ENVIRONMENTAL HEALTH

SAMPLE TESTING AND REPORTING RECORD

This testing and reporting record shall be completed, signed and dated after each inspection. One copy shall be retained by the maintenance company. The second copy is sent to the local permitting authority and the third copy is sent to the system owner along with an invoice for services by the maintenance company.

- 1. Required frequency of visits - every 4 months
Actual date of visit Aug. 15, 1997
- 2. System inspection: Property Address 30267 Ralph Fair Rd.
Permit # 77398
Person Performing Inspection Paul D. Brunsand

Inspected Item	Operational	Inoperative
Aerators	/	
Filters	/	
Irrigation pumps	/	
Recirculation pumps	/	
Disinfection device	/	
Chlorine supply	/	
Electrical Circuits	/	
Distribution system	/	
Other as needed		

3. Repairs to system N/A

4. Tests required and results

Test	Required		Results mg/l, mpr/100, or trace
	Yes	No	
BOD(Grab)			
TSS(Grab)			
Cl (Grab)			
<u>Fecal Coliform</u>			<u>1.5.</u>

5. General comments or recommendations _____

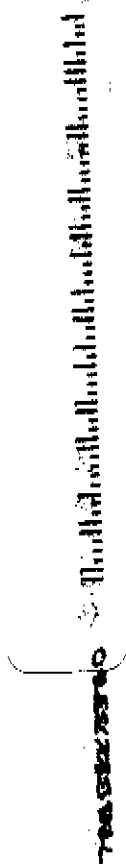
FAIRCO WATER COMPANY

BOX 4495
BOERNE, TEXAS 78006



SAN ANTONIO, TX 782XX 15:02 09/15/97 153¢ 0410

COMAL COUNTY ENVIRONMENTAL HEALTH
4931 HWY 46 W #19
NEW BRAUNFELS, TEXAS 78132



REVISED
9-30-96
77398

TESTING AND REPORTING
CONTRACT

The type of unit is a Hydro-Action Model G-500, Class I Aerobic Wastewater System. This unit requires three (3) inspections per guidelines dated November 20, 1990.

The owner will inspect this system three (3) times a year the first two (2) years.

The test required includes a chlorine residual or fecal coliform at each visit. The acceptable test results will be 1 mg/L chlorine residual in the pump tank or fecal coliform not to exceed 200 MPN/100 ml.

The inspections will be recorded and a copy retained by the inspection company and one sent to the permitting authority three (3) times per year.

OWNER: Bob Weiss
Bob Weiss, President
Ralph E. Fair, Inc.

INSTALLER: Bobby Georg
Bobby Georg

REVISED
9-30-96
77398

AFFIDAVIT TO THE PUBLIC

1/c

The County of Comal:

STATE OF TEXAS

Before me, the undersigned authority, on this day personally appeared **Bob Weiss, President, Ralph E. Fair, Inc.**, who after being by me duly sworn, upon oath states that he is represents that certain tract or parcel of land lying and being situated in Comal County, Texas and being more particularly described as follows: **The General Ranch Deed as described in Volume 2883, Page 27, as recorded in the Deed of Records, Comal County, Texas.**

The undersigned further states that a surface application on-site wastewater treatment system has been installed in accordance with the permitting provisions of the TEXAS NATURAL RESOURCES CONSERVATION COMMISSION. The undersigned will utilize qualified wastewater personnel to provide services and repairs to the surface application system.

Further the undersigned states that he will, upon sale or transfer of the above-described property, request a transfer of the permit, to operate such surface application system to the buyer or transferee. Any buyer or transferee is hereby notified that a maintenance contract with an approved maintenance company will be required for use of the system. For more information concerning the rules or regulations on surface application on-site wastewater treatment systems, please contact the Division of Water Hygiene, Texas Department of Health, 1100 W. 49th Street, Austin, Texas 78765.

Witness MY/OUR HAND(S) on this 26th day of Sept, 1996.

STATE OF TEXAS
COUNTY OF COMAL.
This is to certify that this document was FILED and RECORDED in the Official Public Records of Comal County, Texas on the date and time stamped thereon.



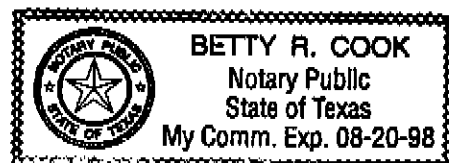
Joy Streater
COUNTY CLERK
COMAL COUNTY, TEXAS

Bob Weiss
Bob Weiss, President
Ralph E. Fair, Inc.

SWORN TO AND SUBSCRIBED BEFORE ME on this 26th day of Sept, 1996
by Bob Weiss

Doc# 9606019540
Pages: 1
Date : 09-30-1996
Time : 02:47:36 P.M.
Filed & Recorded in
Official Records
of COMAL County, TX.
JOY STREATER
COUNTY CLERK
Rec. \$ 9.00

Betty R. Cook
Notary Public, State of Texas



DOC# 9606019540

Chris H. Menzel, R.S.
Environmental Consultant
265 Danube Pass, Boerne, TX 78006

REVISED
9-30-96
77398

(210) 336-2989

Fax (210) 336-2975

ON-SITE AEROBIC WASTEWATER SYSTEM APPLICATION

DATE: SEPTEMBER 27, 1996

OWNER: RALPH E. FAIR, INC.

ADDRESS: 30267 RALPH FAIR ROAD, FAIR OAKS RANCH, TX. 780015

TELEPHONE: 201/698-1756

COUNTY: COMAL

Georg
S3
10/28/96
OK
Water line
Re Routed
around
System

DESIGN PARAMETERS

SIZE OR RESIDENCE: 2400 FT²

NUMBER OF BEDROOMS: 4

AVERAGE EXPECTED FLOW: 375 GAL./DAY

APPLICATION RATE: 0.064 GAL./FT²/DAY

APPLICATION RATE REQUIRED: $5,859 \text{ FT}^2 = (375 \text{ GAL./DAY}) / (0.064 \text{ GAL./FT}^2/\text{DAY})$

ACTUAL APPLICATION AREA: 5,892 FT²

EQUIPMENT SPECIFICATIONS

TREATMENT SYSTEM: HYDRO-ACTION, MODEL G-500 CLASS 1 AEROBIC SYSTEM

TRASH TANK: 500 GAL.

PUMP TANK: 750 GAL. WITH PUMP AND HIGH WATER LEVEL ALARM

SURFACE APPLICATION: * SURFACE APPLICATION WITH DISCHARGE PUMP
* RAIN BIRD SPRINKLER HEADS
* (3) 25 FT. RADIUS @ 360 DEG. = 5,892 FT²

DISINFECTION: STACK-FEED CONTACT CHLORINATOR

INSTALLER: BOBBY GEORG, (210) 438-2640, (Manufactures Equipment and Operational Data
Furnished to Homeowner by Installer)



This design is based on rules and guidance standards developed by the Texas Natural Resources Conservation Commission and, under normal conditions and proper installation, should be expected to function in a satisfactory manner.


Chris H. Menzel, Registered Professional Sanitarian

Date: 9-27-96

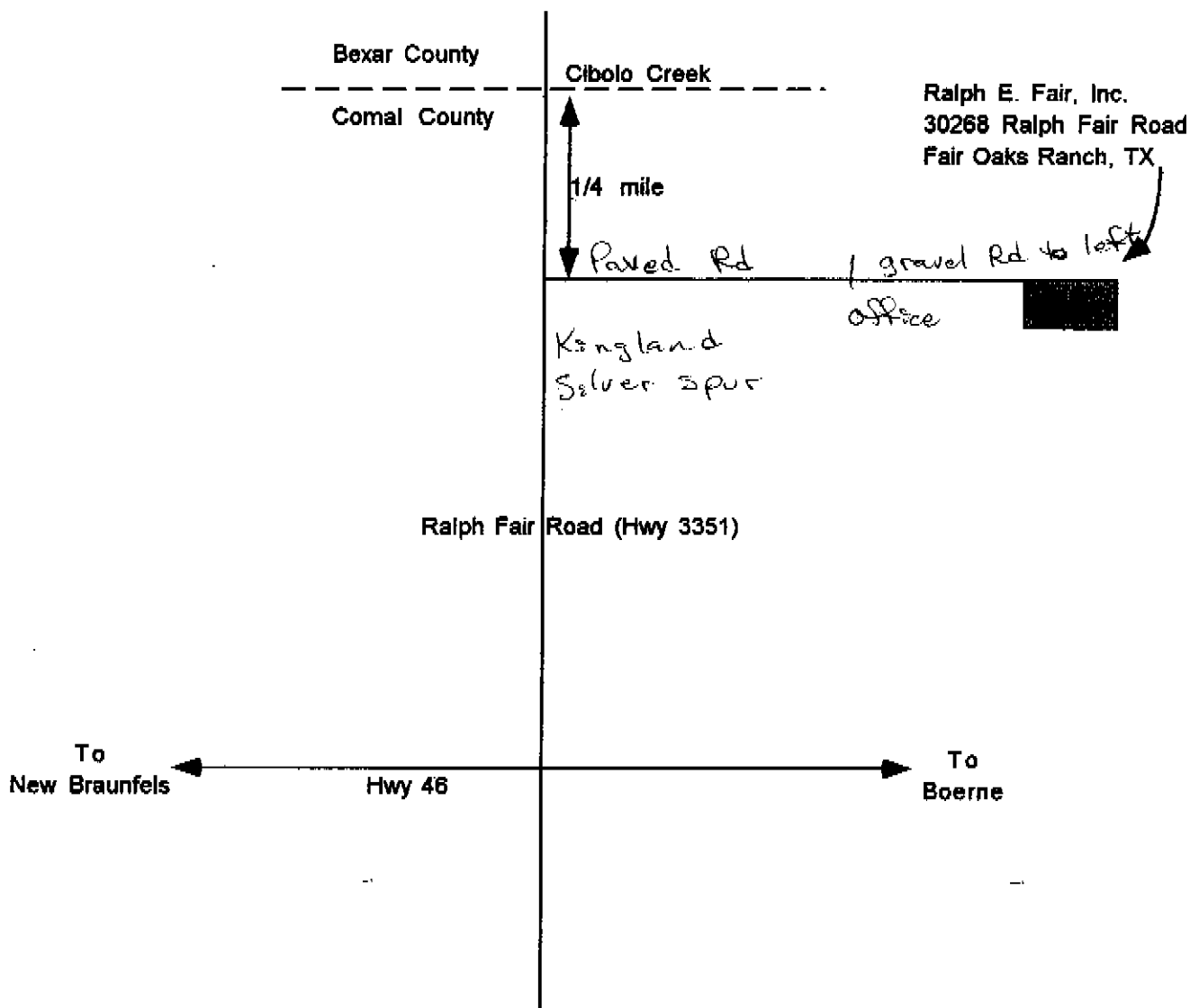
Chris H. Menzel, R.S.
Environmental Consultant
265 Danube Pass, Boerne, TX 78006

REVISED
9-30-96
77398

(210) 336-2989

(Fax) (210) 336-2975

Location Map



Scale: NOT TO SCALE

Chris H. Menzel, R.S.
Environmental Consultant
265 Danube Pass, Boerne, TX 78006

REVISED
9-30-96
77398

(210) 336-2989

Fax (210) 336-2975

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Chris H. Menzel, Registered Professional Sanitarian

Date: 9-27-96

Chris H. Menzel, R.S.
Environmental Consultant
265 Danube Pass, Boerne, TX 78006

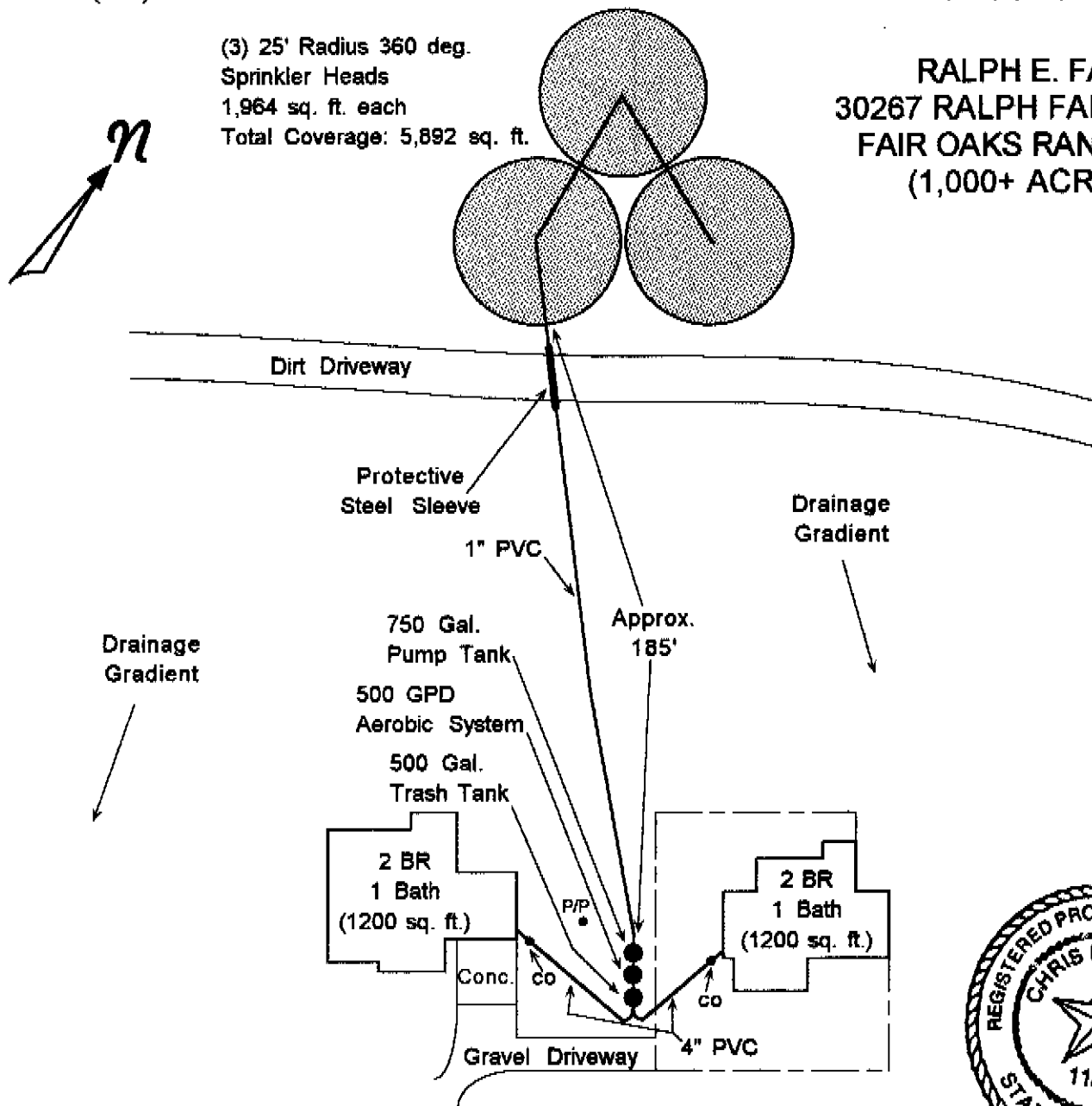
REVISED
9-30-96
77398

(210) 336-2989

(Fax) (210) 336-2975

(3) 25' Radius 360 deg.
 Sprinkler Heads
 1,964 sq. ft. each
 Total Coverage: 5,892 sq. ft.

RALPH E. FAIR
30267 RALPH FAIR ROAD
FAIR OAKS RANCH, TX
(1,000+ ACRES)



Scale: 1" = 50'

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Chris H. Menzel R.S. # 1183 DATE: 9-26-96
 CHRIS H. MENZEL
 REGISTERED PROFESSIONAL SANITARIAN

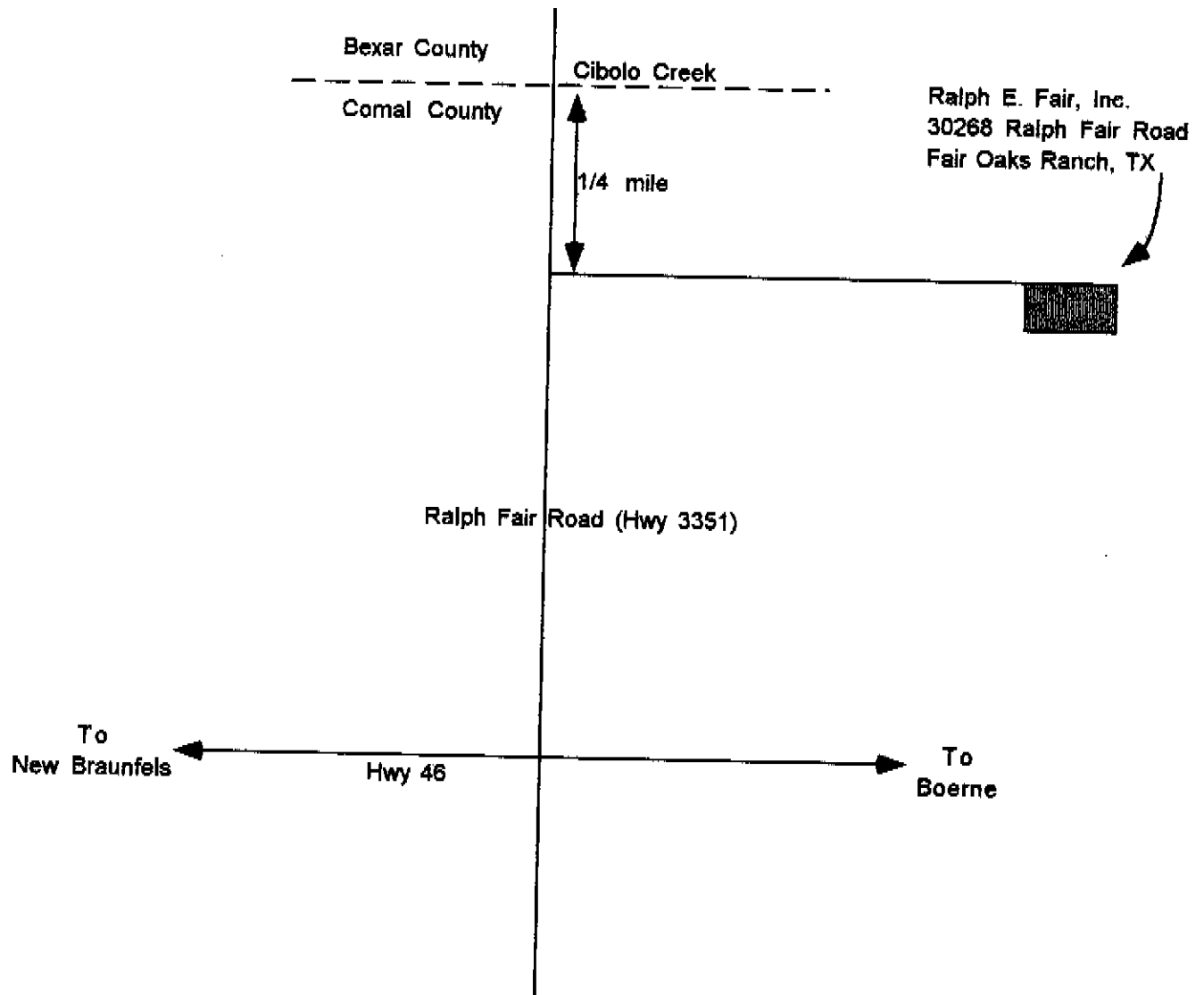
Chris H. Menzel, R.S.
Environmental Consultant
265 Danube Pass, Boerne, TX 78006

REVISED
9-30-96
77398

(210) 336-2989

(Fax) (210) 336-2975

Location Map



Scale: NOT TO SCALE

REVISED
9-30-96
77398

Chris H. Menzel, R.S.
Environmental Consultant
265 Danube Pass
Boerne, Texas 78006

(210) 336-2989

Fax (210) 336-2975

September 30, 1996

Ms. Monica M. Wallace
Environmental Health Department Officer
4931 Hwy. 46 W., Suite 101
New Braunfels, TX. 78132

Revision
to
On-Site Sewerage Facility Design
Permit No. 77398
30267 Ralph Fair Road
Fair Oaks Ranch, TX. 78015

Dear Ms. Wallace:

I am enclosing a revision to the above referenced application. The revision is to allow for the installation of a aerobic wastewater treatment system utilizing surface spray application instead of the conventional septic system originally requested in an application dated August 28, 1996. This modification is at the request of Ralph E. Fair, Inc. A Permit to Construct the conventional system was issued by your office on September 6, 1996.

Thank you for your assistance in this matter. If you should have any questions, please contact me at your convenience.

Thank You,


Chris H. Menzel

Enclosures

REVISED
9-30-96
77398

**ON-SITE
SEWAGE FACILITY
APPLICATION & DESIGN**

Prepared for:

Ralph E. Fair, Inc.
30267 Ralph E. Fair Road
Fair Oaks Ranch, TX 78015

Prepared by:

Chris H. Menzel, R.S.
Environmental Consultant
265 Danube Pass
Boerne, TX
(210) 336-2989
(210) 336-2975 (Fax)

Project No. 29361
September 1996



Chris H. Menzel
Registered Professional Sanitarian

TRANSMITTAL



77398

ALAMO CONSULTING ENGINEERING & SURVEYING, INC.

125 W. SUNSET ROAD

SAN ANTONIO, TX 78209

PHONE : (210)828-0691

FAX NO.: (210)824-3055

VOID

TO: MS. MONICA WALLACE
COMAL COUNTY SANITARIAN
4931 HWY. 46 WEST, SUITE 101
NEW BRAUNFELS, TX. 78132-3760

RE: FAIR OAKS RANCH

DATE: August 29, 1996

WE ARE SENDING YOU:	X ATTACHED	UNDER SEPARATE
Blueline Prints	Mylar Prints	Specifications
Xerox Copies	Sepla Prints	Plans

COPIES	DESCRIPTION	LATEST DATE
1	SEPTIC PERMIT	

TRANSMITTED:

X For Approval
As Requested

Review and Comment
For Bids Due _____

For Your File
19__

REMARKS: PLEASE PROCESS THIS SUBMITTAL AS SOON AS POSSIBLE. THANK YOU.

IF ADDITIONAL INFORMATION IS REQUIRED, PLEASE CONTACT THIS OFFICE.

COPIES TO: FILE # FAIRCO

HOW DELIVERED: MAIL

RECEIVED BY: _____

SIGNED: KRIS ROBERSON

Date dug & wet: 8-21-96

By: Kids

Owner's Name: Ralph E. Fair

Mailing Address: 30207 Ralph Fair Rd.

Fair Oaks Ranch, Texas 78006

Phone: 698-1756

Job Location: FM 3351 | Ralph Fair

Unit No. _____ Lot No. _____ Blk No. _____ Acreage 1000±

Over Edwards Aquifer Recharge Zone: Yes _____ No _____

Date: _____

Perc Test: _____

Installer: _____

Mailing Address: **VOID**

Phone: _____

Test Holes

	#1	#2	#3	#4
Size or Diameter	<u>9"</u>	<u>9"</u>	_____	_____
Depth	<u>24"</u>	<u>24"</u>	_____	_____
Time Saturated	<u>-</u>	<u>-</u>	_____	_____
24 Hour Condition	<u>-</u>	<u>-</u>	_____	_____
Filled to 12"	<u>Yes</u>	<u>Yes</u>	_____	_____
1st 30 Minute Absorption	<u>6</u>	<u>6</u>	_____	_____
2nd 30 Minute Absorption	<u>6</u>	<u>6</u>	_____	_____
Minute/Inch Absorption	<u>6</u>	<u>6</u>	_____	_____
Average Minute/Inch Absorp.	<u>6</u>	_____	_____	_____

Grade shots are given on system design? YES

Type of soils BOB BOERNE FINE SANDY LOAM, 1 to 3% slopes

17" fine sandy loam to 41" of pale brownish pale brown fine sandy loam

No. of bedrooms the septic system is sized for: 4 Total sq.ft. of living area 2400

780 sq.ft. trench bottom sq. ft. bed _____ required.

1250 Gallon compartmental septic tank required.

Calculations: BASED ON TABLE VI CONVENTIONAL ABSORPTION TRENCH AND BED

SIZING REQUIREMENTS FOR SINGLE FAMILY RESIDENTIAL DWELLINGS

DO NOT use excavated material for backfill over drainfield gravel. Use sand and sandy loam.

Location of Test Holes:

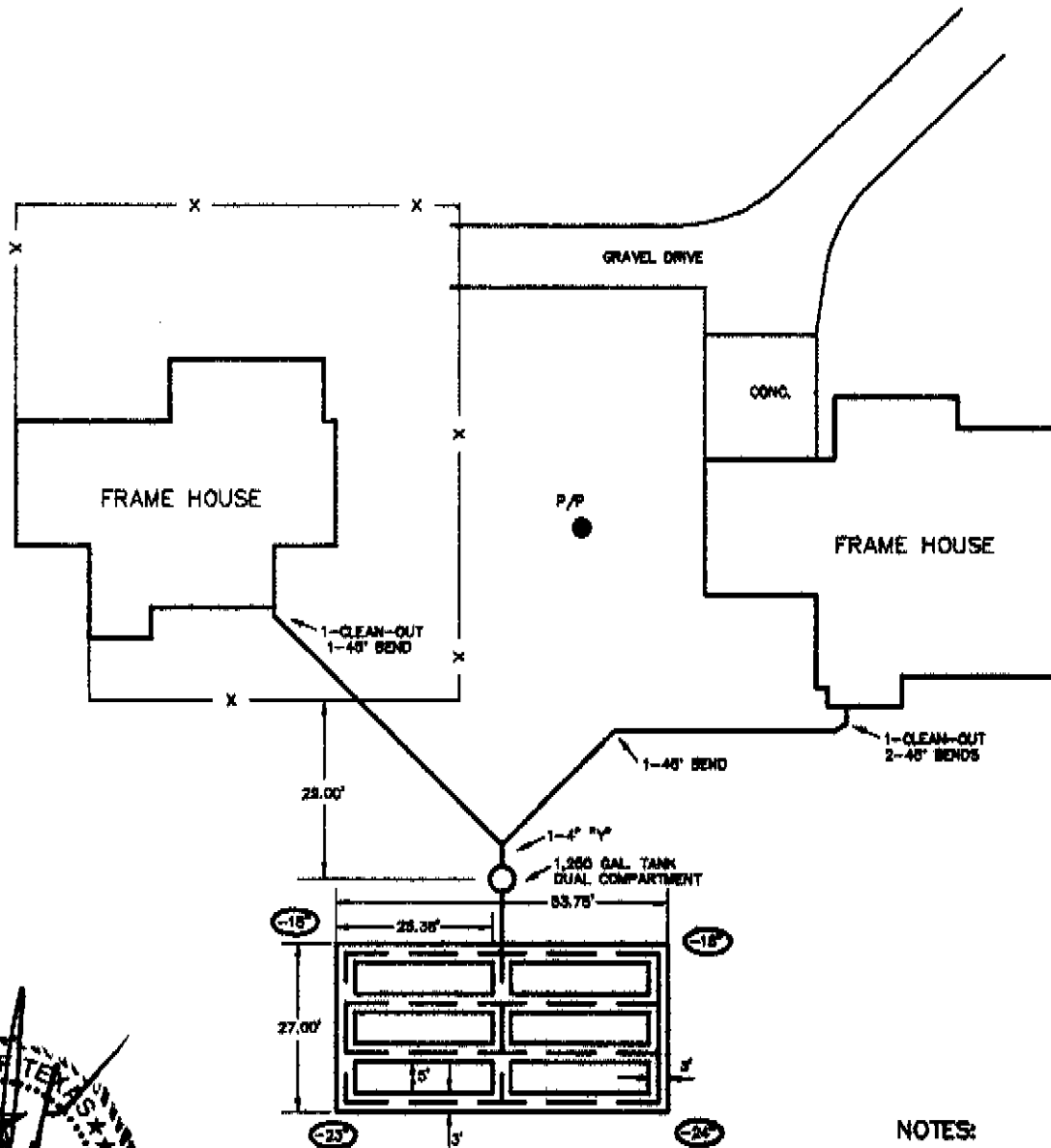


Signature and Registration No. of P.E. / Sanitarian / Geologist



SCALE: 1"=30'

VOID



**FAIR OAKS RANCH
FARM HOUSE
SEPTIC SYSTEM**



**ALAMO CONSULTING
ENGINEERING &
SURVEYING, INC.**

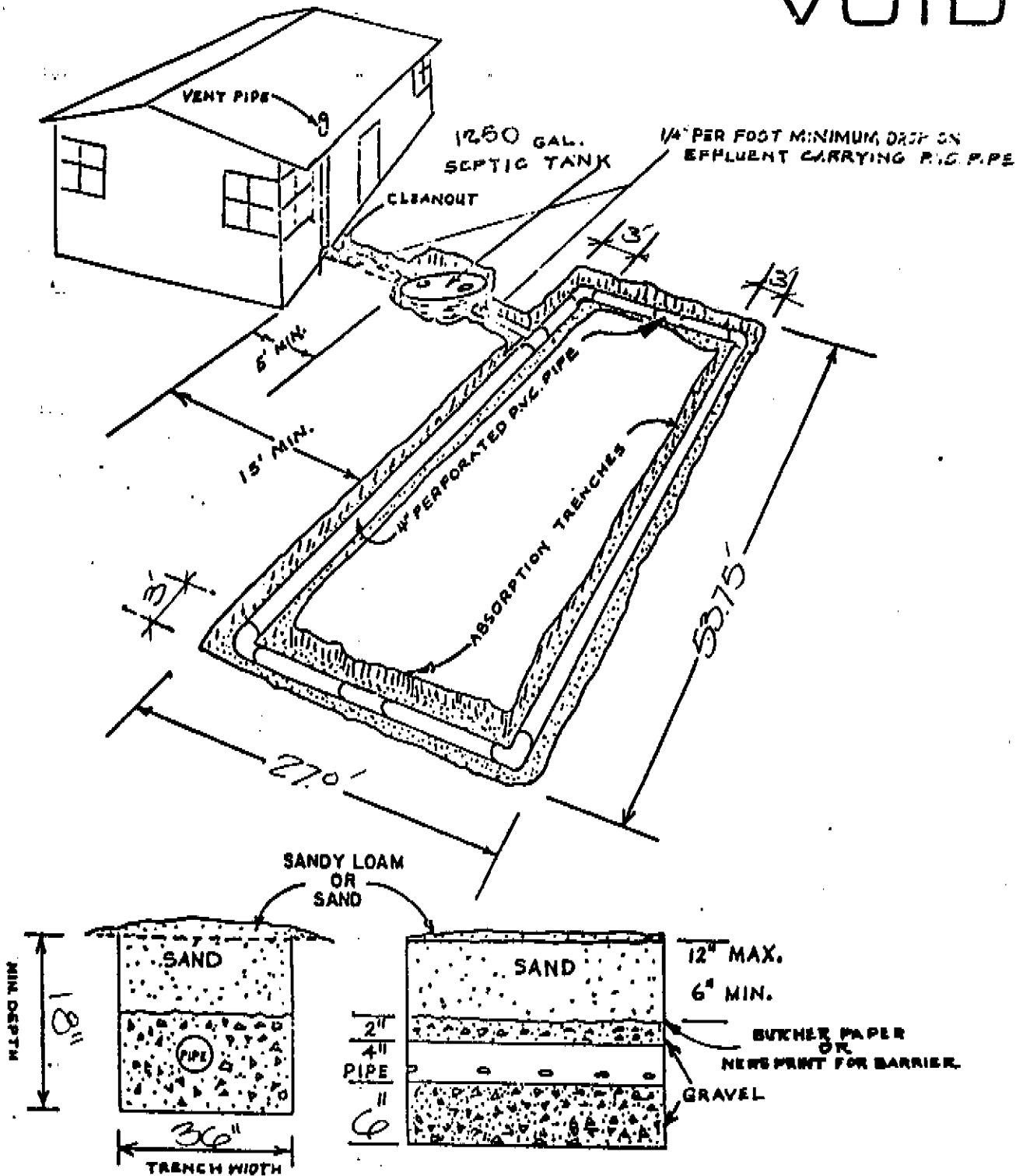
DATE 05/14/96
JOB # 08377.02
FILE # WD88

NOTES:

- 1) AREA IS TO BE COVERED WITH SANDY LOAM MATERIAL AND SEEDED.
- 2) ALL CONSTRUCTION SHALL CONFORM TO COMAL COUNTY SPECIFICATIONS.
- 3) DRAIN FIELD SHALL BE LOOPED AND LEVELLED.
- 4) PERK TEST LOCATED AT CROSS OF DRAIN FIELD.
- 5) EXISTING SEPTIC TANK AND DRAIN SHALL BE COLLAPSED AND FILLED IN.

List

VOID





United States
Department of
Agriculture

In Cooperation with
Texas
Agricultural
Experiment
Station

Soil
Conservation
Service

SOIL CONSERVATION SERVICE
555 III 35 W. STE 248
NEW BRAUNFELS TX 78130

Soil Survey of Comal and Hays Counties Texas

77398



TABLE 14.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS

[The symbol < means less than. Entries under "Erosion factors--T" apply to the entire profile. Entries under "Organic matter" apply only to the surface layer. Absence of an entry indicates that data were not available or were not estimated]

Map symbol and soil name	Depth In	Clay Pct	Permeability In/hr	Available water capacity In/in	Soil reaction pH	Shrink-swell potential	Erosion factors		Organic matter Pct
							K	T	
AgC3, AgD3----- Altoza	0-13 13-60	35-50 35-50	0.6-2.0 0.6-2.0	0.15-0.18 0.15-0.18	7.9-8.4 7.9-8.4	High----- Moderate-----	0.32 0.32	5	<2
AnA, AnB----- Anhalt	0-18 18-28 28-35	--- --- ---	<0.06 <0.06 ---	0.15-0.18 0.15-0.18 ---	6.1-8.4 6.1-8.4 ---	High----- Very high----- ---	0.32 0.32 ---	2	---
AuB,* AuC3:* Austin-----	0-11 11-24 24-34	35-55 35-55 ---	0.2-0.6 0.2-0.6 ---	0.15-0.20 0.15-0.20 ---	7.9-8.4 7.9-8.4 ---	High----- Moderate----- ---	0.32 0.32 ---	2	1-4
Castephen-----	0-15 15-18	24-43 ---	0.6-2.0 ---	0.08-0.14 ---	7.9-8.4 ---	Moderate----- ---	0.32 ---	1	1-3
BoB----- Boerne	0-65	12-23	2.0-6.0	0.10-0.15	7.9-8.4	Low-----	0.28	5	.5-1
BrB----- Bolar	0-14 14-28 28-30	25-40 25-40 ---	0.6-2.0 0.6-2.0 ---	0.11-0.20 0.11-0.20 ---	7.9-8.4 7.9-8.4 ---	Moderate----- Moderate----- ---	0.32 0.17 ---	2	1-3
BtD:* Brackett-----	0-17 17-18	15-35 ---	0.2-0.6 ---	0.10-0.20 ---	7.9-8.4 ---	Low-----	0.17	2	<1
Rock outcrop.									
Comfort-----	0-4 4-11 11-20	35-50 55-75 ---	0.06-0.2 0.06-0.2 ---	0.07-0.15 0.07-0.15 ---	6.6-8.4 6.6-8.4 ---	Low----- Moderate----- ---	0.10 0.10 ---	1	1-4
BtG:* Brackett-----	0-14 14-18	15-35 ---	0.2-0.6 ---	0.10-0.20 ---	7.9-8.4 ---	Low-----	0.17	2	<1
Rock outcrop.									
Real-----	0-12 12-36	22-40 ---	0.6-2.0 ---	0.05-0.10 ---	7.9-8.4 ---	Low-----	0.10	1	1-4
ByA, ByB----- Branyon	0-60 60-80	45-60 30-60	<0.06 <2.0	0.15-0.18 0.11-0.18	7.9-8.4 7.9-8.4	Very high----- Very high-----	0.32 0.32	5	2-4
CsC3----- Castephen	0-16 16-20	24-43 ---	0.6-2.0 ---	0.08-0.14 ---	7.9-8.4 ---	Moderate----- ---	0.32 ---	1	1-3
GrD:* Comfort-----	0-6 6-13 13-20	35-50 55-75 ---	0.06-0.2 0.06-0.2 ---	0.07-0.15 0.07-0.15 ---	6.6-8.4 6.6-8.4 ---	Low----- Moderate----- ---	0.10 0.10 ---	1	1-4
Rock outcrop.									
DeB, DeC3----- Denton	0-25 25-36 36-40	35-60 35-60 ---	0.06-0.2 0.06-0.2 ---	0.15-0.20 0.15-0.20 ---	7.9-8.4 7.9-8.4 ---	High----- High----- ---	0.32 0.32 ---	2	1-4
DeC----- Dees	0-18 18-24	32-48 ---	0.2-0.6 ---	0.15-0.20 ---	7.9-8.4 ---	Moderate----- ---	0.24 ---	1	1-3

See footnote at end of table.

Chris H. Menzel, R.S.
Environmental Consultant
 265 Danube Pass, Boerne, TX 78006

REVISED
 9-30-96
 77398

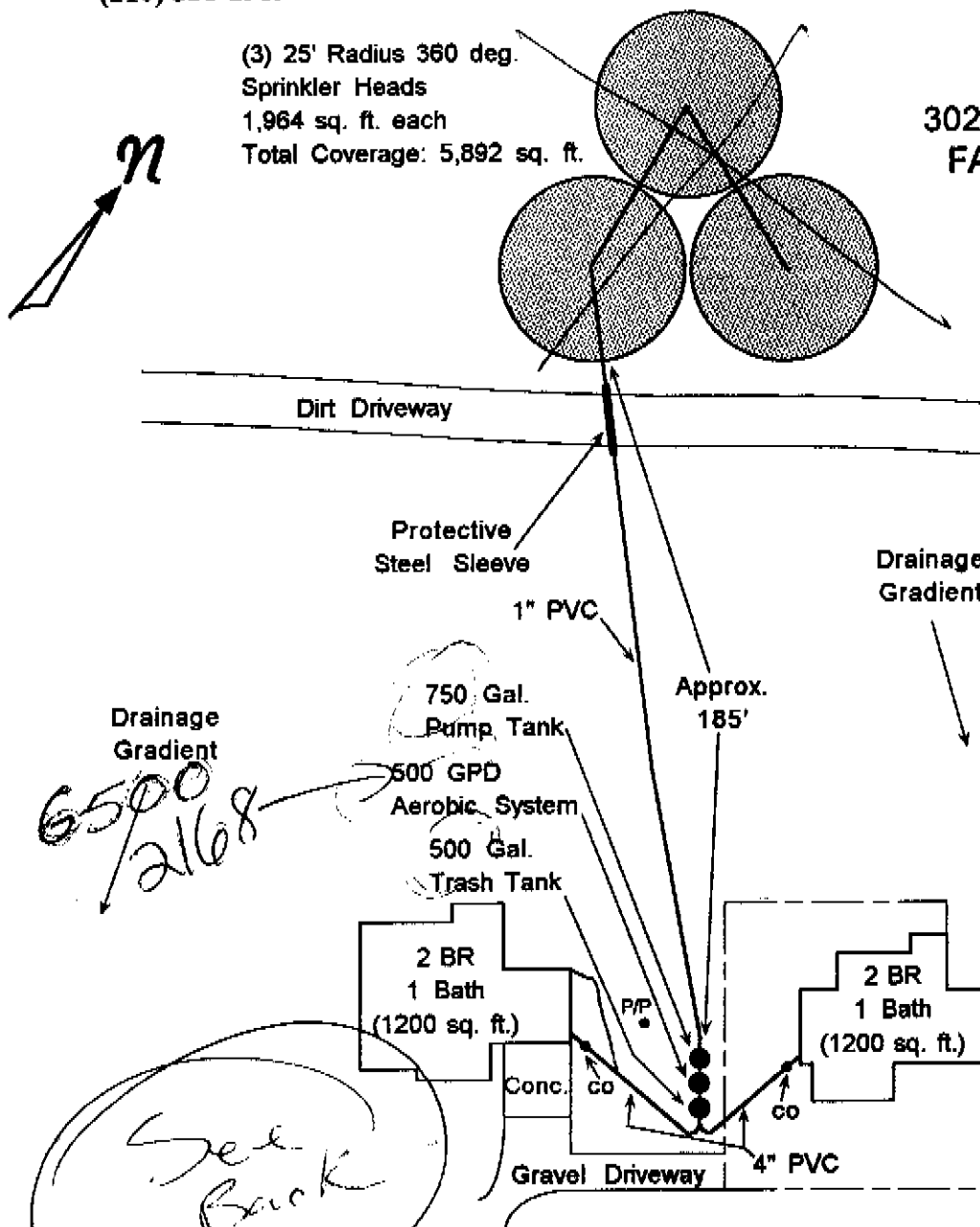
(210) 336-2989

(Fax) (210) 336-2975

(3) 25' Radius 360 deg.
 Sprinkler Heads
 1,964 sq. ft. each
 Total Coverage: 5,892 sq. ft.

RALPH E. FAIR
 30267 RALPH FAIR ROAD
 FAIR OAKS RANCH, TX
 (1,000+ ACRES)

SI
 10/29/96
 Passed



Scale: 1" = 50'

This design is based on rules and guidance standards developed by the Texas Natural Resources Conservation Commission and, under normal conditions and proper installation, should be expected to function in a satisfactory manner. In addition, I have reviewed the plans to verify that there are no other rooms that could be converted into a bedroom.

Chris H. Menzel
 CHRIS H. MENZEL
 REGISTERED PROFESSIONAL SANITARIAN
 R.S. # 1183 DATE: 9-26-96

10/24/96

Dirt Road

