

TEXAS REALTORS

INFORMATION ABOUT ON-SITE SEWER FACILITY

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CONCERNING THE PROPERTY AT

~~_____~~ agreement 621 Las Colinas Dr
Wimberley, TX 78676-9368

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

- (1) Type of Treatment System: Septic Tank Aerobic Treatment Unknown
- (2) Type of Distribution System: _____ Unknown
- (3) Approximate Location of Drain Field or Distribution System: _____ Unknown
- (4) Installer: Paul Wilhelm - Wilhelm Excavation, Bastrop Unknown
- (5) Approximate Age: Installed 2003 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: AAMS
Phone: 512/847-0757 contract expiration date: 7/15/2020
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? ~~_____~~
- (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 _____
- (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.

(TXR-1407) 1-7-04

Initialed for Identification by Buyer _____ and Seller WLD

Page 1 of 2

Keller Williams Realty, 13210 RR 12 Wimberley TX 78676
Debra Donaldson

Produced with zipForm® by zipLogix 18070 Fifteen Mile Road, Fraser, Michigan 48026 www.zipLogix.com

Phone: 512.665.9588

Fax:

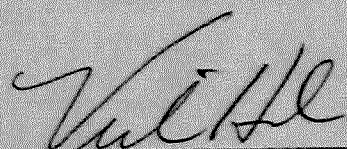
621 Las Colinas,

Information about On-Site Sewer Facility concerning _____

D. INFORMATION FROM GOVERNMENTAL AGENCIES: Pamphlets describing on-site sewer facilities are available from the Texas Agricultural Extension Service. Information in the following table was obtained from Texas Commission on Environmental Quality (TCEQ) on 10/24/2002. The table estimates daily wastewater usage rates. Actual water usage data or other methods for calculating may be used if accurate and acceptable to TCEQ.

Facility	Usage (gal/day) without water-saving devices	Usage (gal/day) with water-saving devices
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

This document is not a substitute for any inspections or warranties. This document was completed to the best of Seller's knowledge and belief on the date signed. Seller and real estate agents are not experts about on-site sewer facilities. Buyer is encouraged to have the on-site sewer facility inspected by an inspector of Buyer's choice.



4/2/20

Signature of Seller

Date

Vicki Hahn

Signature of Seller

Date

Receipt acknowledged by:

Signature of Buyer

Date

Signature of Buyer

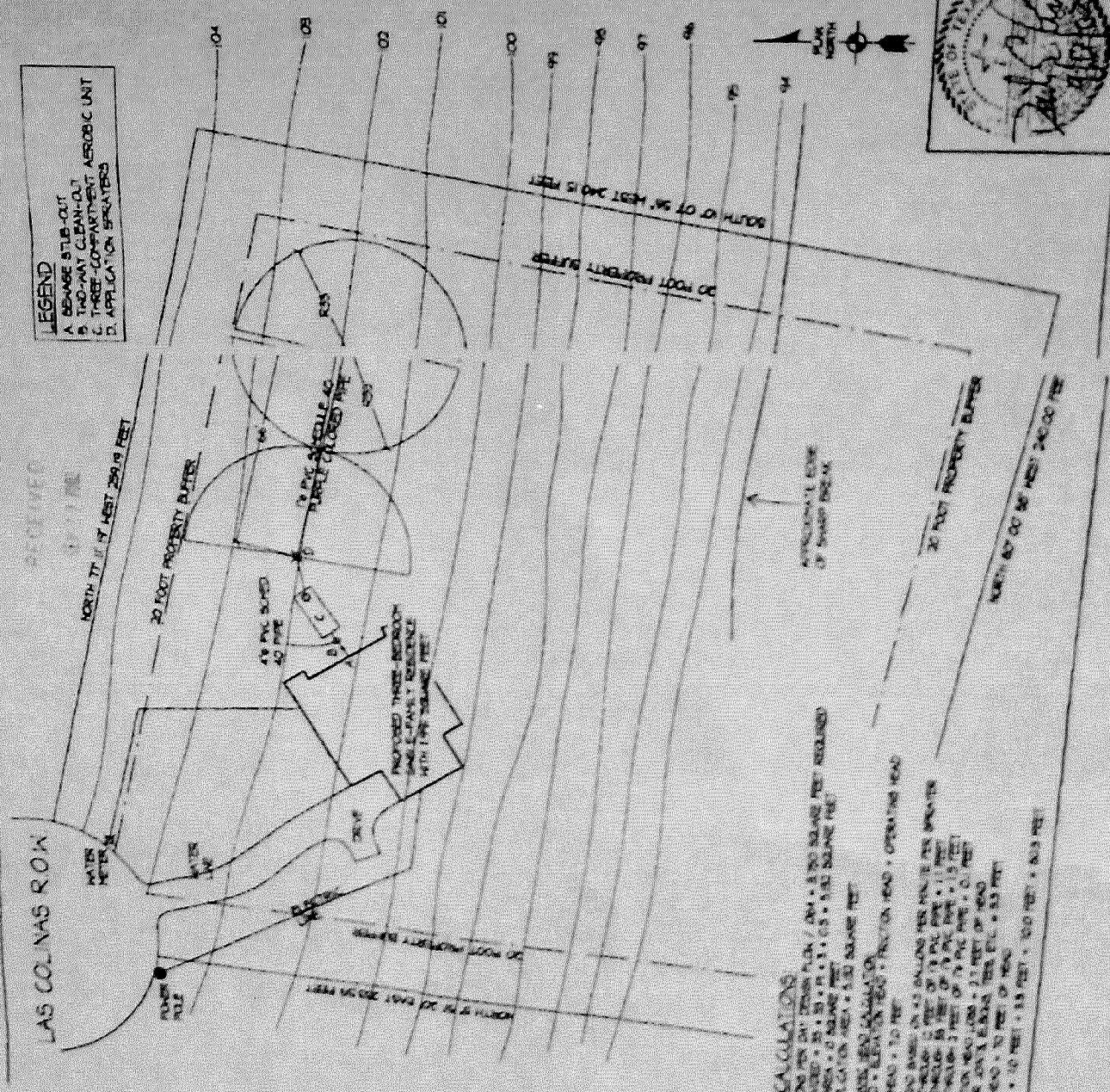
Date

GENERAL NOTES

1. ALL PIPING SHOWN SHALL BE CONSTRUCTED TO SCHEDULE 40 PVC UNLESS NOTED OTHERWISE ON SITE PLAN OR SECTION DETAIL.
2. TREES AND VEGETATION WITHIN THE VICINITY OF THE PROPOSED SYSTEM COMPONENTS SHALL BE PROTECTED. IT IS POSSIBLE THAT DAMAGE MAY OCCUR TO TREES AND VEGETATION DURING THE INSTALLATION OF THIS SYSTEM. NEITHER THE DESIGNER NOR THE INSTALLER SHALL BE RESPONSIBLE FOR VEGETATION REPLACEMENT, REMOVAL AND/OR TRIMMING OF TREES AND VEGETATION THAT MAY BE REQUIRED TO PROPERLY INSTALL AND OPERATE THIS SYSTEM.
3. NO WATER WELL MAY BE INSTALLED CLOSER THAN 150 FEET OF THE PROPOSED SYSTEM. ALL WATER WELLS LOCATED 50 FEET OR LESS FROM ANY PROPERTY LINES MUST BE FILL TO PREVENT GROUND WATER FROM ANY PROPERTY LINES. NO WATER WELL MAY BE A DEPTH OF NO LESS THAN 100 FEET. NO WATER WELL MAY BE INSTALLED CLOSER THAN 10 FEET FROM ANY PROPERTY LINE. ALL WATER LINES SHALL REPAIR AT LEAST 10 FEET FROM ALL UTILITY COMPONENTS UNLESS NOTED OTHERWISE ON SITE PLAN. NO UTILITY TRENCHING SHALL BE PERFORMED WITHIN THE PROPOSED SYSTEM DRAINFIELD.
4. TO THE BEST OF MY KNOWLEDGE THERE APPEAR TO BE NO EXISTING AQUIFER RECHARGE FEATURES WITHIN 150 FEET OF THIS PROPOSED SEPTIC SYSTEM.
5. THE DESIGNER WILL DELIVER TO THE PERMITTING AUTHORITY AN APPROVAL/CERTIFICATION LETTER UPON RECEIVING THE INSTALLED SYSTEM INDICATING COMPLIANCE WITH THE DESIGN APPROVAL. ALL NOT BE GRANTED UNTIL ALL INSPECTIONS ARE PERFORMED. ALL REQUIREMENTS ARE AGREED AND ALL FEES TO THE DESIGNER AND THE PERMITTING AUTHORITY ARE PAID IN FULL. A LICENSE TO OPERATE WILL BE ISSUED BY THE PERMITTING AUTHORITY AND USE MAY NOT BEGIN UNTIL RECEIPT OF THE LICENSE TO OPERATE. USE OF AN ON-SITE SEWAGE FACILITY WITHOUT A LICENSE TO OPERATE IS A VIOLATION OF STATE AND LOCAL LAWS AND REGULATIONS PUNISHABLE BY FINES AND/OR CONFINEMENT OF PROPERTY.
6. THIS PLAN IS INTENDED FOR USE AS AN INSTALLATION GUIDE. THE DIMENSIONS AND LOCATION OF THE PROPERTY AND SITE FEATURES ARE DEVELOPED FROM SURVEYS OF PROVIDED AND ANY ADDITIONAL INFORMATION PROVIDED BY THE OWNER, BUILDER OR INSTALLER. THE SITE PLAN IS NOT INTERFERED AS A LEGAL LAND SURVEY AND SHOULD NOT BE TREATED AS SUCH. FIELD CONDITIONS MAY HAVE CHANGED SINCE THE ORIGINAL SITE VISIT. IT IS THE RESPONSIBILITY OF THE INSTALLER TO FIELD VERIFY ALL DIMENSIONS AND SITE FEATURES.
7. THIS PLAN IS SITE SPECIFIC AND MAY NOT BE REPRODUCED W/O PERMISSION FROM THE DESIGNER AND DELCON ENVIRONMENTAL SYSTEMS, LLC. THIS DESIGN AND THE INFORMATION WITHIN REMAIN THE OWNERSHIP OF THE DESIGNER AND DELCON ENVIRONMENTAL SYSTEMS, LLC. ADDITIONAL COPIES OF THIS DESIGN MAY BE OBTAINED BY CONTACTING DELCON ENVIRONMENTAL SYSTEMS, LLC. ADDITIONAL PRINTING FEES MAY APPLY.
8. IN MY PROFESSIONAL OPINION, THIS PROPOSED SYSTEM MAY BE OPERATED WITHOUT CAUSING A THREAT OR HARM TO THE PUBLIC HEALTH OR THE ENVIRONMENT. THE OWNER IS RESPONSIBLE FOR PROPER USE OF THIS SYSTEM. SYSTEM ABUSE OR OVERUSE MAY DAMAGE THE PROPER FUNCTION OF THIS SYSTEM CAUSING FAILURES AND POTENTIALLY REQUIRING MODIFICATIONS OR REPLACEMENT AT THE OWNER'S EXPENSE.

LEGEND

- A. SEWAGE STUB-OUT
- B. TWO-WAY CLEAN-OUT
- C. THREE-COMPARTMENT AEROBIC UNIT
- D. APPLICATION SPRAYERS



DESIGN CALCULATIONS

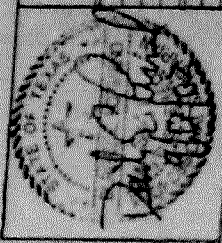
240 GALLONS PER DAY DESIGN FLOW (2.0) x 1.250 SOLIDS FEET REQUIRED
 AREA PROVIDED = 240 GPD x 1.250 = 300 GPD x 1.500 SOLIDS FEET
 TOTAL AREA = 300 GPD x 1.500 SOLIDS FEET = 450 GPD x 1.500 SOLIDS FEET

AREA PROVIDED AND CALCULATED

DESIGN FLOW = 240 GPD
 DESIGN FLOW x 1.250 = 300 GPD
 DESIGN FLOW x 1.500 = 450 GPD

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 DESIGN FLOW x 1.500 = 450 GPD



RECEIVED

09/12/03

AS-BUILT SHEET 1 - SITE PLAN
DELCON ENVIRONMENTAL SYSTEMS, L.L.C.
 9001 MOUNTAINVIEW CIRCLE
 AUSTIN, TEXAS 78750
 (512) 455-0028

CLIENT	VICKI HARR BRIDGE OF PAUL HURFIELD
ADDRESS	125 LAS COLINAS
PERMIT AUTHORITY	LOT 24, HERRINGTON HILLS SECTION 2
DATE	MAY 12, 2003
SCALE	1" = 30'



1/26/2004 08:12 AM

Hays County Environmental Health NOTICE OF APPROVAL FOR ON-SITE SEWAGE FACILITY

THIS IS TO CERTIFY that the on site sewage facility located at:

OSSF # 2003 - 1485

621 LAS COLINAS DRIVE, WIMBERLEY, TX 78676

Grid:

WIMBERLEY HILLS II

Block: Lot: 24 Routine Maintenance

meets or exceeds the basic requirements established by the County.
LICENSE TO OPERATE this facility is hereby granted to the owner. This license simply grants permission to operate this facility; it does not guarantee its successful operation. Routine maintenance and proper functioning are the sole responsibility of the owner.

KEEP THIS LICENSE with important papers. You may need it when selling your house or if a malfunction occur

Tank Type: Concrete Box

Valve: Sample

Max Flow: 240 gallons/day

Tank Size: gallons

Drainfield Size: 5132 sq. ft.

Installed By: WILHELM PAUL

Engineered By: LORMAND, DERRICK

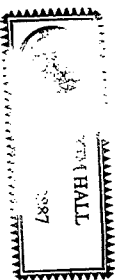
The above referenced private sewage facility has been inspected by the Hays County Health Department for compliance with the Rules of Hays County and, based on information provided in the application, has been found to comply with the requirements of those Rules.

NOTE: This certification does not extend to the materials, workmanship or fabrication of the private sewage facility so as to express or imply to the owner or installer of the facility any warranty by or rights against Hays County or any of its agencies, as to the quality or durability of the facility nor compliance with the owner's individual specifications and requirements, but solely relates to the facility meeting the requirements of Hays County in effect as of this date.

NOTE: This approval simply grants permission to operate this facility; it does not guarantee its successful operation. Routine maintenance and proper functioning are the sole responsibility of the owner.

NOTE: This approval remains in effect until such time as there is evidence that this facility is not operating properly and may constitute a threat to the health of the people of Hays County.

The specified backfill should not be altered or covered in any way except for sodded grass or grass seeded cover to promote evaporation. All plumbing in the house should be kept in good repair to minimize flooding of the drainfield.



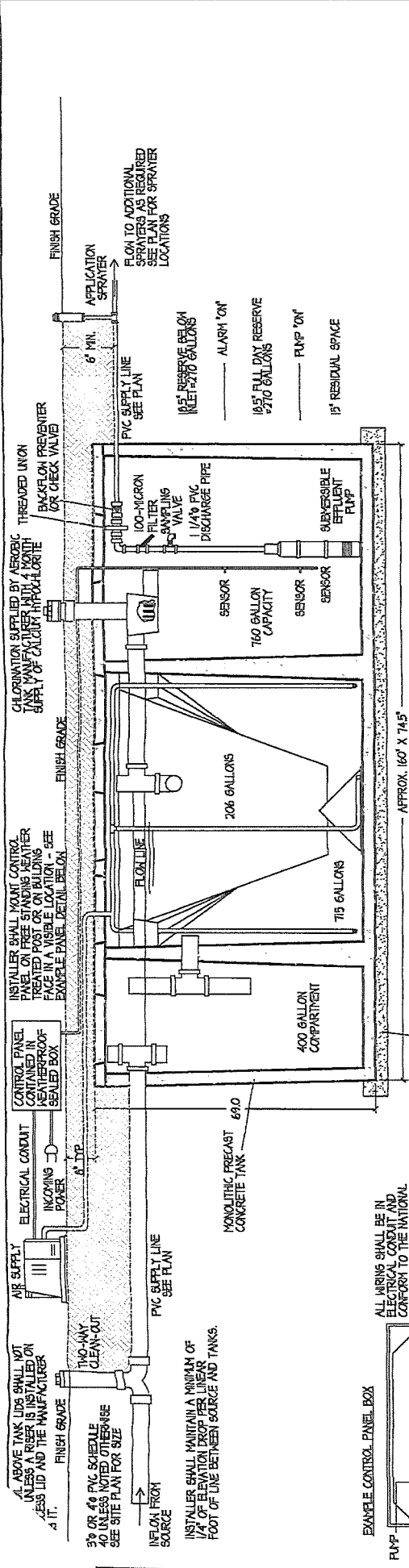
Date of Final Inspection: 1/23/2004

Issued this date:

1-26-04

Sean Hartan

Director, Environmental Health



EFFLUENT PUMP:
HOOT KILL SWITCH TO ACTIVATE AUDIO-VISUAL ALARM AT CONTROL PANEL WHEN WATER LEVEL REACHES 18\"/>

REGULATOR: 1/2\"/>

POCKET REQUIREMENT:
115 VOLT, SINGLE PHASE, 60 HERTZ.

HIGH LEVEL ALARM:
ON SEPARATE CIRCUIT TO ACTIVATE AUDIO-VISUAL ALARM AT CONTROL PANEL WHEN WATER LEVEL REACHES 18\"/>

FLOW SENSORS:
INSTALL PER MANUFACTURER'S REQUIREMENTS AND ADJUST FLOWS TO HAVE THE OPERATING RANGE AS INDICATED.

PUMP KILL SWITCH:
CONTROL PANEL SHALL INCLUDE PUMP KILL SWITCH IF AERATOR MALFUNCTIONS.

THIS SYSTEM REQUIRES SECONDARY DISINFECTION (CHLORINATION). CALCIUM HYPOCHLORITE TABLETS CAN MAINTAIN EFFECTIVE RESIDUALS (TRACES) UNDER NORMAL OPERATING CONDITIONS.

TIMER SHALL BE INSTALLED AS REQUIRED BY MANUFACTURER. SET TIMER TO BRNAY AT 4:00 AM. SYSTEM SHALL ACTIVATE FOR ONLY ONE DOSE PER 24-HOUR PERIOD.

DRAINFIELD SHALL HAVE GRASS COVER. THE EXISTING SOIL IS SUITABLE TO SUPPORT VEGETATIVE GROWTH. THE OWNER IS RESPONSIBLE FOR MAINTAINING THE VEGETATION AT THE DRAINFIELD LOCATION. ALL ROCK OUTCROPPINGS AND BARE SPOTS WITHIN THE PROPOSED DRAINFIELD AREA SHALL BE COVERED WITH A MINIMUM OF 2\"/>

AERobic TREATMENT UNIT WITH SURFACE APPLICATION SPRAYERS. SOIL APPLICATION RATE = 0.064 GALLONS PER SQUARE FOOT PER DAY - PER TRUCK COSEFF WORKSHOPS 86-276/8V-01 REVISED MAY 2001; FIGURE 1, APPENDIX A.

CHLORINATION SUPPLIED BY AERobic TANK MANUFACTURER WITH 4 MONTH SUPPLY OF CALCIUM HYPOCHLORITE

INSTALLER SHALL MAINTAIN CONTROL PANEL ON FREE STANDING NEUTRAL TREATED POST OR ON BUILDING FACE IN A VISIBLE LOCATION - SEE EXAMPLE PANEL DETAIL BELOW

MONOLITHIC PRECAST CONCRETE TANK

FOUNDATION OF 4\"/>

APPROX. 160' X 145'

HOOT KILL SWITCH TO ACTIVATE AUDIO-VISUAL ALARM AT CONTROL PANEL WHEN WATER LEVEL REACHES 18\"/>

REGULATOR: 1/2\"/>

POCKET REQUIREMENT:
115 VOLT, SINGLE PHASE, 60 HERTZ.

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8. THE LAWS AND REGULATIONS CONTAINED IN THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY TITLE 50 TEXAS ADMINISTRATIVE CODE CHAPTER 205 FOR ON-SITE SEWAGE FACILITIES ADOPTED MAY OF 2001 AND EFFECTIVE JUNE OF 2001 GOVERN THE DESIGN, PERMIT AND INSTALLATION OF THIS SYSTEM. ANY ADDITIONAL REGULATIONS ADOPTED BY THE LOCAL AUTHORITY ABOVE AND BEYOND THE REQUIREMENTS OF THE TRCC SHALL SUPERSEDE. ANY ADDITIONAL REQUIREMENTS AND/OR SPECIFIC STIPULATIONS LISTED IN THE PERMIT AUTHORIZATION SHALL BE STRICTLY FOLLOWED. IT IS THE RESPONSIBILITY OF THE INSTALLER TO REVIEW THE SPECIAL CONDITIONS IF ANY CONTAINED IN THE AUTHORIZATION TO CONSTRUCT.

9. A MAINTENANCE CONTRACT WITH A LICENSED AND CERTIFIED MAINTENANCE PROVIDER IS REQUIRED BY STATE LAW FOR THIS SYSTEM. PERIODIC MAINTENANCE IS NECESSARY TO MAINTAIN OPTIMUM SYSTEM PERFORMANCE AND ENVIRONMENTAL PROTECTION. IT IS HIGHLY RECOMMENDED THAT PERIODIC MAINTENANCE BE PERFORMED AT THREE-MONTH INTERVALS.

10. PERMANENT WATER AND ELECTRIC UTILITIES SHALL BE CONNECTED TO THIS SEWAGE FACILITY TO OBTAIN A LICENSE TO OPERATE FROM THE PERMITTING AUTHORITY. THE PERMIT APPLICATION FROM THE DESIGNER WILL BE DELIVERED TO THE PERMITTING AUTHORITY AFTER THE PERMIT APPLICATION IS PREPARED AND ALL DESIGN FEES ARE RECEIVED. OPERATING AN ON-SITE SEWAGE FACILITY WITHOUT A LICENSE TO OPERATE IS A VIOLATION OF STATE AND LOCAL LAWS AND REGULATIONS.

11. THE INSTALLER SHALL COORDINATE WITH THE PERMITTING AUTHORITY TO SCHEDULE ALL REQUIRED INSPECTIONS THROUGHOUT THE INSTALLATION PROCESS. THE INSTALLER MAY CONTACT THE PERMITTING AUTHORITY TO OBTAIN A SCHEDULE OF INSPECTIONS.

12. TANKS SHALL BE FILLED WITH WATER TO THE FLOW LINE TO DETERMINE INTEGRITY. ANY LEAKS SHALL BE PATCHED TO HOLD WATER. ONLY TANKS ARE APPROVED BY THE PERMITTING AUTHORITY. THE WATER LEVEL WITHIN THE PUMP TANK MUST BE LOWERED TO THE OPERATING RANGE. DO NOT DISCHARGE THE EXCESS WATER INTO THE DRAINFIELD. THE EXCESS WATER SHALL BE REMOVED FROM THE SYSTEM WITHOUT ENTERING THE DRAINFIELD.

13. NO AUTOMATIC WATER SPRINKLER SYSTEMS MAY BE PLACED TO IRRIGATE THE PROPOSED DRAINFIELD. HAND WATERING IS PERMISSIBLE WHEN REQUIRED TO HELP MAINTAIN VEGETATION.

14. IN MY PROFESSIONAL OPINION AND UNDER NORMAL OPERATING CONDITIONS, THIS SYSTEM MAY BE OPERATED WITHOUT CAUSING A THREAT TO THE PUBLIC HEALTH OR TO THE ENVIRONMENT.

GENERAL NOTES:

1. ON-SITE SEWAGE PERMIT (AUTHORIZATION TO CONSTRUCT) MUST BE OBTAINED FROM THE PERMITTING AUTHORITY PRIOR TO THE COMMENCEMENT OF THE INSTALLATION OF THIS SYSTEM. THE PERMIT MUST BE PLACED AT A VISIBLE LOCATION AT THE PROPERTY AND BE AVAILABLE FOR INSPECTION.

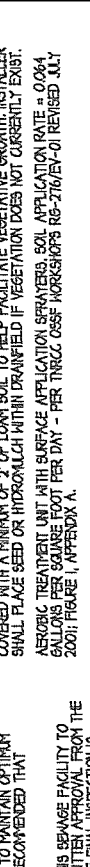
2. INSTALLATION OF THIS SYSTEM MUST BE PERFORMED BY A STATE LICENSED CLASS II INSTALLER OR A STATE LICENSED APPRENTICE OPERATING UNDER THE DIRECT SUPERVISION OF A STATE LICENSED CLASS II INSTALLER. THE LICENSED CLASS II INSTALLER OR APPRENTICE MUST MAINTAIN CURRENT PROOF OF LICENSE AT JOB SITE WHILE INSTALLING SYSTEM.

3. NO PORTION OR COMPONENT OF THIS SYSTEM SHALL BE COVERED UNTIL REVIEWED AND APPROVED BY THE PERMITTING AUTHORITY. THE DESIGNER SHALL BE NOTIFIED TO PERFORM INSPECTION AT LEAST 24 HOURS IN ADVANCE PRIOR TO COVERING ANY SYSTEM COMPONENTS.

4. THE INSTALLER SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES BETWEEN THIS DESIGN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DESIGNER IMMEDIATELY. CONSTRUCTION WORK SHALL STOP IMMEDIATELY UPON REPORTING OF DISCREPANCIES AND SHALL BE RE-STARTED BY THE INSTALLER NOT WITHIN COMPLIANCE OF THIS PLAN IS DONE AT THE INSTALLER'S RISK. FIELD CONDITIONS ARE SUBJECT TO CHANGE AND SHALL BE REPORTED.

5. FIELD MODIFICATIONS TO THIS DESIGN ARE PERMISSIBLE IF APPROVED BY THE DESIGNER AND THE PERMITTING AUTHORITY. ADDITIONAL FEES TO THE DESIGNER AND/OR THE PERMITTING AUTHORITY MAY APPLY. CONSTRUCTION OF THE SYSTEM SHALL STOP IMMEDIATELY UPON REPORTING OF DISCREPANCIES AND SHALL BE RE-STARTED BY THE INSTALLER. MODIFICATIONS ARE SUBJECT TO APPLICABLE FEES AND PHD. ALL REQUIRED SEPARATION DISTANCES SHALL BE MAINTAINED.

6. THE INSTALLER IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. THE INSTALLER SHALL CONTACT A UTILITY LOCATING SERVICE TO MARK ALL PERTINENT UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ANY DESIGN MODIFICATIONS REQUIRED TO AVOID UNDESIRABLE CONDITIONS SHALL BE REPORTED TO THE DESIGNER IMMEDIATELY. WORK SHALL STOP UNTIL APPROVAL TO PROCEED IS GRANTED FROM THE DESIGNER AND THE PERMITTING AUTHORITY.



TREATMENT METHOD:
1) 500 GALLON PER DAY CONCRETE THREE-COMPARTMENT AERobic TREATMENT UNIT

CLIENT:	MS. MICKI HAIN c/o MR. PAUL WILHELM
STREET:	625 LAS COLINAS
LOT, SUBDIVISION:	LOT 24, HAYES COUNTRY, SECTION 2
PERMIT AUTHORITY:	WARRANT COUNTY, TEXAS
DRAWN BY:	D. E. LORRARD, R.T.
DATE:	06/27/2005
FILE NAME:	8 SCALE: 1/2" = 1'-0"



ENVIRONMENTAL SYSTEMS, L.L.C.
103 NORTH FIRST STREET, SUITE 200
Pflugerville, Texas 78660
(512) 340-1169

SECTION DETAIL
SHEET 2

LAS COLINAS R.O.M.

RECEIVED

SEP 12 2003

NORTH 77.11' 19" EAST 229.19 FEET

POWER POLE

WATER METER

WATER LINE

DRIVE

PROPOSED THREE-BEDROOM SINGLE-FAMILY RESIDENCE WITH 1597 SQUARE FEET

4" PVC SCHED. 40 PIPE

1" PVC SCHEDULE 40 FLUTE SCHEDULE 40

20 FOOT PROPERTY BUFFER

66'

93'

93'

104

103

102

101

100

99

98

97

96

95

94

PLAN NORTH

APPROXIMATE EDGE OF SHARP BEND

30 FOOT PROPERTY BUFFER

NORTH 80° 00' 50" WEST 240.00 FEET

30 FOOT PROPERTY BUFFER

SOUTH 10° 00' 56" WEST 240.15 FEET

30 FOOT PROPERTY BUFFER

30 FOOT PROPERTY BUFFER

30 FOOT PROPERTY BUFFER

30 FOOT PROPERTY BUFFER

30 FOOT PROPERTY BUFFER

30 FOOT PROPERTY BUFFER

30 FOOT PROPERTY BUFFER

30 FOOT PROPERTY BUFFER

30 FOOT PROPERTY BUFFER

30 FOOT PROPERTY BUFFER

LEGEND

- A. SEWAGE SUMP-OUT
- B. TWO-DAY CLEAN-OUT
- C. THREE-COMPARTMENT AEROBIC UNIT
- D. APPLICATION SPRAYERS

GENERAL NOTES

1. ALL PIPES SHOWN SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC UNLESS NOTED OTHERWISE ON SITE PLAN OR SECTION DETAIL.
2. TREES AND VEGETATION WITHIN THE VICINITY OF THE PROPOSED SYSTEM COMPONENTS OF TREES AND VEGETATION DURING THE INSTALLATION OF THIS SYSTEM. NEITHER THE DESIGNER NOR THE INSTALLER SHALL BE RESPONSIBLE FOR VEGETATION REPLACEMENT, REMOVAL AND/OR TRIMMING OF TREES AND VEGETATION. VEGETATION SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE LIFE OF THE SYSTEM.
3. NO WATER WELL MAY BE INSTALLED CLOSER THAN 150 FEET OF THE PROPOSED SYSTEM. ALL WATER WELLS LOCATED 50 FEET OR LESS FROM ANY PROPERTY LINE MUST BE PRESERVED. DEWELLING CAUSED TO A DEPTH OF NO LESS THAN 100 FEET. NO WATER WELL MAY BE INSTALLED CLOSER THAN 10 FEET FROM ANY PROPERTY LINE. ALL WATER LINES SHALL REMAIN AT LEAST 10 FEET FROM ALL SYSTEM COMPONENTS UNLESS NOTED OTHERWISE ON THE PLAN. NO UTILITY TRENCHING SHALL BE PERFORMED WITHIN THE PROPOSED SYSTEM DRAINFIELD.
4. TO THE BEST OF MY KNOWLEDGE THESE APPEAR TO BE NO EXISTING WATER RECEIVING FEATURES WITHIN 150 FEET OF THIS PROPOSED SEPTIC SYSTEM.
5. THE DESIGNER WILL DELIVER TO THE PERMITTING AUTHORITY AN APPROVAL/CERTIFICATION LETTER UPON REVIEWING THE INSTALLED SYSTEM INDICATING COMPLIANCE WITH THE DESIGN APPROVAL. THIS WILL NOT BE GRANTED UNTIL ALL INSPECTIONS ARE PERFORMED AND ALL REQUIREMENTS ARE ACHIEVED AND ALL FEES TO THE PERMITTING AUTHORITY HAVE BEEN PAID. THE DESIGNER WILL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR OBTAINING ALL NECESSARY APPROVALS FROM THE PERMITTING AUTHORITY AND USE OF AN ON-SITE SEWAGE FACILITY WITHOUT A LICENSE TO OPERATE IS A VIOLATION OF STATE AND LOCAL LAWS AND REGULATIONS ENFORCEABLE BY FINES AND/OR CONDEMNATION OR PROSECUTION.
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8. IN MY PROFESSIONAL OPINION, THIS PROPOSED SYSTEM MAY BE OPERATED WITHOUT OBTAINING A LICENSE. THE DESIGNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR OBTAINING ALL NECESSARY APPROVALS FROM THE PERMITTING AUTHORITY AND USE OF THIS SYSTEM, SYSTEM ADAPT OR OTHERWISE MAY DAMAGE THE PROPER FUNCTION OF THIS SYSTEM. CALLING FAILURES AND POTENTIAL REQUIREMENTS MODIFICATIONS OR REPLACEMENT AT THE OWNER'S EXPENSE.

RECEIVED

SEP 12 2003

DESIGN CALCULATIONS:

340 GALLONS PER DAY DESIGN FLOW / 0.64 = 530 SQUARE FEET REQUIRED AREA REQUIRED = 530 SQ. FT. * 1.5 = 795 SQUARE FEET OVERLAP AREA = 0.4 SQUARE FEET TOTAL APPLICATION AREA = 519.2 SQUARE FEET

TOTAL DYNAMIC HEAD CALCULATION:

ELEVATION HEAD = 7.0 FEET

FRICITION HEAD * FRICTION HEAD * OPERATING HEAD

FRICITION HEAD BASED ON 43 GALLONS PER MINUTE PER SPRAYER

12.9 GPM THROUGH 12 FEET OF 1.5" PVC PIPE = 11 FEET

0.5 GPM THROUGH 33 FEET OF 1.5" PVC PIPE = 1.5 FEET

4.5 GPM THROUGH 2 FEET OF 1.5" PVC PIPE = 0.1 FEET

TOTAL FRICTION HEAD LOSS = 2.7 FEET OF HEAD

ADD 20% FOR JOINTS, ELBOWS, TEES, ETC. = 0.5 FEET

OPERATING HEAD = 7.0 FEET OF HEAD

TOTAL HEAD = 7.0 FEET + 0.5 FEET + 10.0 FEET = 17.5 FEET



CLIENT:	VICKI HARR, RESIDENCE OF 616 PAUL WILHELM STREET, LOT 24, HARBOR CITY, SECTION 2, HARR COUNTY, TEXAS
DATE:	09/12/2003
SCALE:	1" = 30'
FILE NAME:	03 LAS COLINAS AS BUILT.DWG

AS-BUILT SHEET 1 - SITE PLAN

DELCON ENVIRONMENTAL SYSTEMS, L.L.C.

900 MOUNTAIN CIRCLE

AUSTIN, TEXAS 78726

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