

WISE COUNTY

DEPARTMENT OF PUBLIC WORKS

P.O. BOX 899
DECATUR, TEXAS 76234
(940) 627-9332 OR 940-627-6655
FAX (940) 627-6171

APPLICATION FOR INSTALLATION OF ON-SITE SEWAGE FACILITY

(APPLICATION UPDATED 11/27/06)

- NEW CONSTRUCTION
 ALTER, EXTEND, OR REPAIR

PERMIT NO. _____

PROPERTY OWNER'S NAME: STEVEN BAUGHER

PERMANENT MAILING ADDRESS: 6371 STONEWATER BEND FORT WORTH, TX 76179
Street/Box City Zip

TELEPHONE: _____ 817.505.9056
Home Work Mobile

911 ADDRESS: 435 CR 3838 Bridgeport 76426
Street/Box City Zip

LEGAL DESCRIPTION OF PROPERTY: (attach legal description) Acres 7.505
Lot 2 Block 1 Subdivision KING ESTATES Phase _____
OR Abstract number R1548 Survey Name _____

SOURCE OF WATER: Private Well OR Public Water from _____

SINGLE FAMILY RESIDENCE: Number of Bedrooms 3 Living Area (Sq. Ft.) 1600 sq ft

Has Water Saving Devices (WSD)? YES NO Maximum Daily Water Consumption (gpd): 240GPD

COMMERCIAL/INSTITUTIONAL (Including multi-family residence) Type: _____

No. Employees/Occupants _____ Days Occupied Per Week _____ Shifts _____ Max. Daily Water Consumption (gpd): _____

DESIGNER: Frank Powell R.S. LICENSE NO. R.S. # 3115 EXP DATE 6/30/26

SITE EVALUATOR: Frank Powell R.S. LICENSE NO. # OS 9949 EXP DATE 4/30/2027

INSTALLER: _____ LICENSE NO. _____ EXP DATE _____

INSTALLER'S PHONE NUMBERS: _____

I certify the above statements are true and correct to the best of my knowledge. Authorization is hereby granted to Wise County to enter upon the above-described private property for the purpose of lot evaluation and inspection of on-site sewage facilities. I understand approval of this application constitutes authorization for construction of the on-site sewage facility and that a permit to operate the facility will be granted following a successful inspection of the installed system which indicates that the system was installed in compliance with Wise County's "Construction Standards for On-Site Sewage Facilities".

Owner's Signature

Date

AS-BUILT DESIGN

HOMEOWNER: STEVEN BAUGHER

SITE ADDRESS: 435 CR 3838, BRIDGEPORT TX 76426

SEPTIC TANKS: NUMBER OF TANKS: 1 CONCRETE FIBERGLASS OTHER: _____

MANUFACTURER: Turner Concrete TOTAL CAPACITY: 1000 GALLONS

EFFLUENT DISPOSAL:

EVAPOTRANSPIRATION BEDS
 EZFLOW SYSTEMS

GRAVEL-LESS PIPE
 LEACHING CHAMBERS

PUMPED EFFLUENT
 STANDARD TRENCHES/BEDS

TRENCH LENGTH: 88' DEPTH: _____ WIDTH: 24" GRAVEL AMOUNT: N/A

NUMBER OF ET BEDS: TWO THREE OTHER: _____

WATER SOURCE: PUBLIC WATER or PRIVATE WATER WELL

(SHOW ALL SETBACKS, WATER LINES, WELLS, GAS LINES, ELECTRIC LINES, ETC**)**



SEE ATTACHED DRAWING

DESIGNED BY: Frank Powell R.S. LICENSE: R.S. # 3115 EXP: 6/30/2026

****SITE EVALUATION REPORT****

DATE: 8/8/2024

APPLICANT'S NAME: STEVEN BAUGHER

HOME PHONE: _____ CELL PHONE: 817.226.5938 WORK PHONE: _____

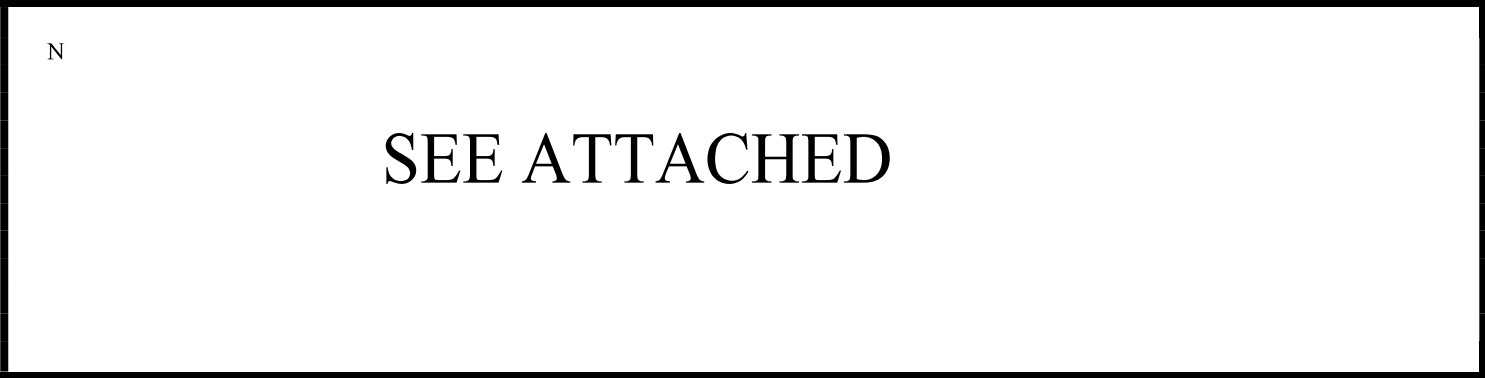
CURRENT ADDRESS: 6371 STONewater BEND CITY: FORT WORTH, STATE: TX ZIP: 76179

SITE 911 ADDRESS: 435 CR 3838 CITY: Bridgeport STATE: TX ZIP: 76426

LOT: 2 BLOCK: 1 SUBDIVISION: King Estates PHASE: _____

OR ABSTRACT#: R1548 SURVEY NAME: _____

ADDITIONAL INFORMATION: _____



SITE EVALUATION RESULTS:

SITE ANALYSIS:

TOTAL SITE AREA: 7.5 ACRES
PROPOSED DEPTH OF OSSF EXCAVATION: _____ FEET
RESTRICTIVE HORIZON PRESENT: NO
DEPTH TO RESTRICTIVE HORIZON: N/A FEET
PRESENCE OR EVIDENCE OF GROUNDWATER: None

EXISTING OR PROPOSED WELL WITHIN 100 FEET? NO
EST. SLOPE (%) IN OSSF AREA 1-3%
PRESENCE OF NEARBY PONDS, STREAMS, DRAINAGE WAYS NO
IS THE PROPOSED OSSF IN FEMA 100 YEAR FLOODPLAIN? NO
COMMENTS: _____

SOIL ANALYSIS:

TEST#1

DEPTH (FEET)	SOIL TYPE (USDA)	SOIL CLASS (I THRU IV)	SOIL STRUCTURE (CLASS III)	SUITABLE?
0"-26"	Sandy Loam	Class II	Granular	Yes
26"-60"	Sandy Clay Loam	Class III	Blocky	Yes

TEST#2

DEPTH (FEET)	SOIL TYPE (USDA)	SOIL CLASS (I THRU IV)	SOIL STRUCTURE (CLASS III)	SUITABLE?
0"-26"	Sandy Loam	Class II	Granular	Yes
26"-60"	Sandy Clay Loam	Class III	Blocky	Yes

OVERALL SITE SUITABILITY:

SOIL CRITERIA: **SUITABLE** OR UNSUITABLE

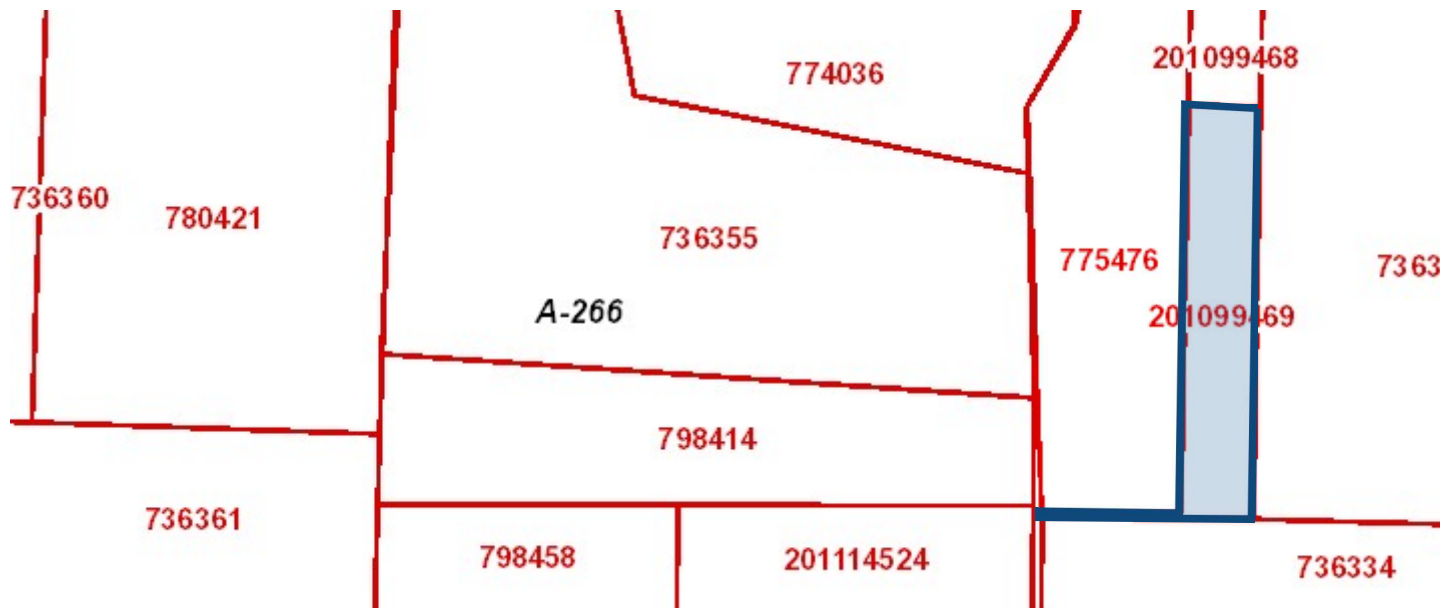
SITE CRITERIA: **SUITABLE** OR UNSUITABLE

COMMENTS: _____

ATTESTED BY: Frank Powell R.S. OF _____ REGISTRATION #: OS 9949
ADDRESS: PO Box 272, CITY: Copeville STATE: TX ZIP: 75121
HOME PHONE#: _____ WORK PHONE #: 214.957.8831 CELL PHONE #: _____

Property ID: 201099469 For Year 2024

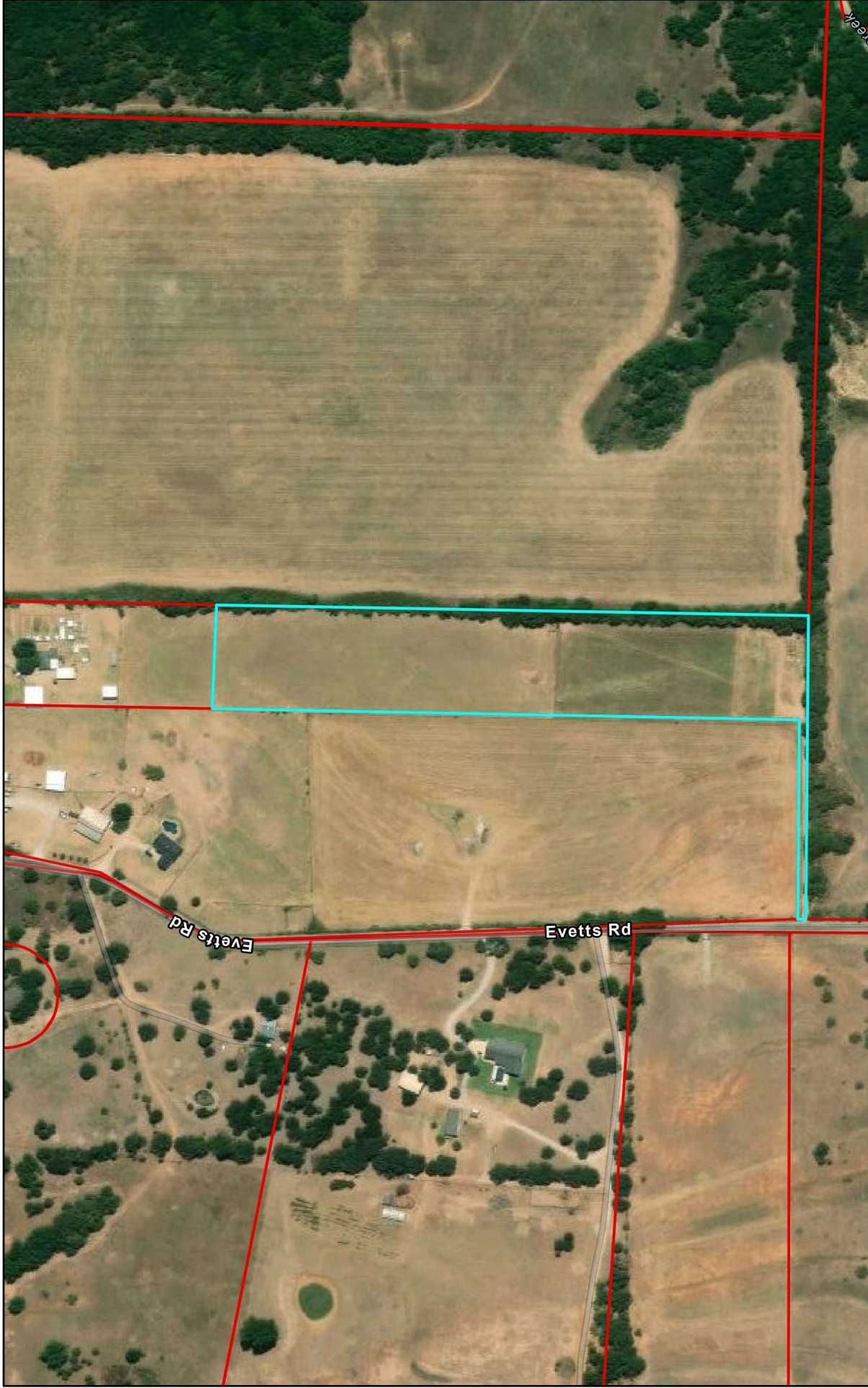
Map



Property Details

Account		
Property ID:	201099469	Geographic ID: R1548.0102.00
Type:	Real	Zoning:
Property Use:		Condo:
Location		
Situs Address:	435 CR 3838	
Map ID:	SBR08	Mapsc0:
Legal Description:	LOT 2 BLK 1 KING ESTATES	
Abstract/Subdivision:	R1548 - KING ESTATES	
Neighborhood:	SBRA	
Owner		
Owner ID:	2327655	
Name:	BAUGHER STEVEN DALE & BENAVIDES DIANA ALEJANDRA	
Agent:		
Mailing Address:	6371 STONEWATER BEND FORT WORTH, TX 76179	
% Ownership:	100.00%	
Exemptions:	For privacy reasons not all exemptions are shown online.	

435 CR 3838, Bridgeport



7/3/2024, 5:16:21 PM

1:4,514

0 0.03 0.06 0.12 mi

0 0.05 0.1 0.2 km

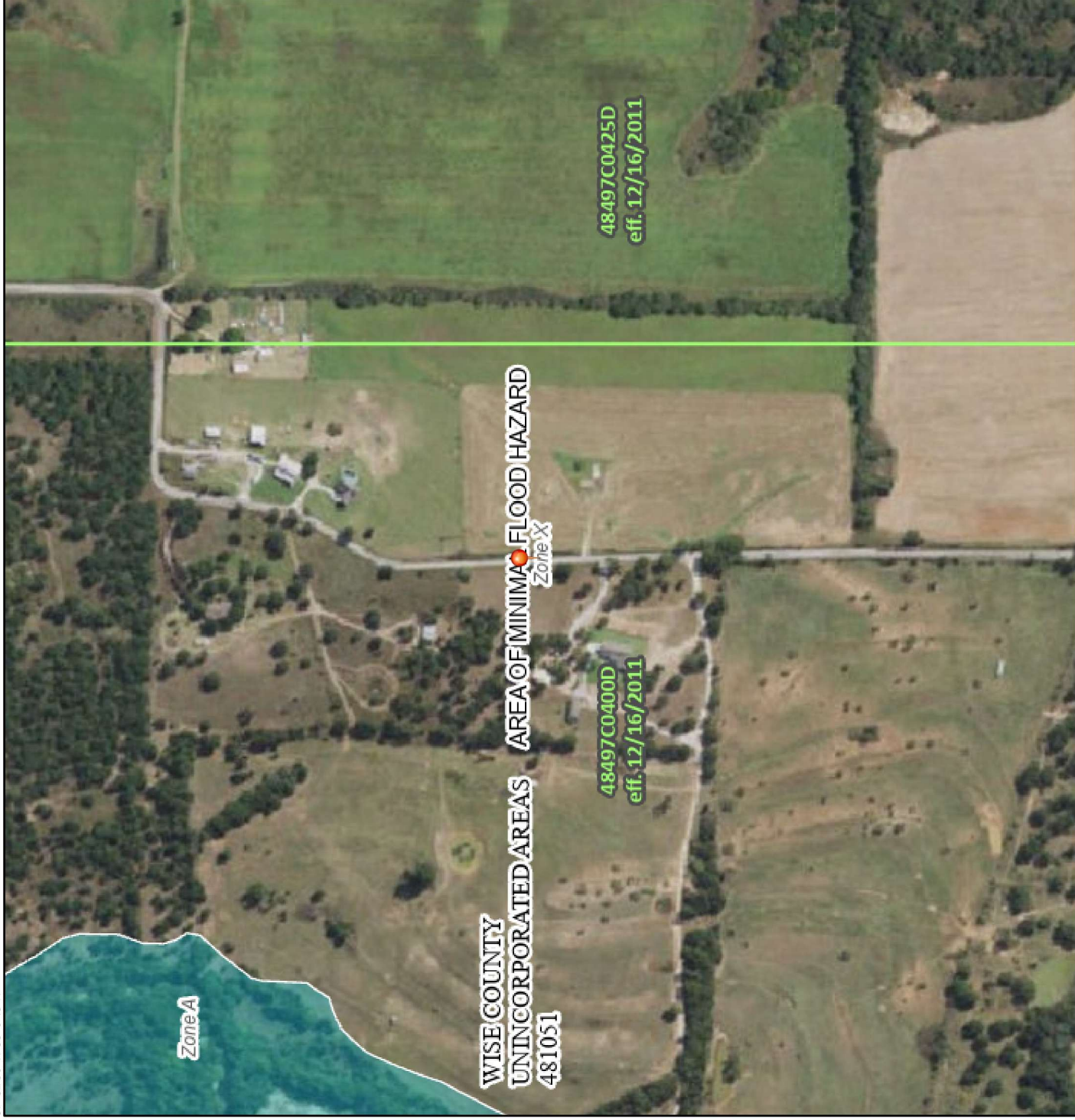
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri Community Maps Contributors, Texas Parks & Wildlife, ©

Wise County Appraisal District, BIS Consulting - www.bisconsulting.com
Disclaimer: This product is for informational purposes only and has not been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of boundaries.

National Flood Hazard Layer FIRMette



97°52'56"W 33°6'43"N



97°52'18"W 33°6'12"N



Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS



Without Base Flood Elevation (BFE)
Zone A, V, A99
With BFE or Depth Zone AE, AO, AH, VE, AR
Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD



0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
Future Conditions 1% Annual Chance Flood Hazard Zone X
Area with Reduced Flood Risk due to Levee. See Notes. Zone X
Area with Flood Risk due to Levee Zone D

OTHER AREAS



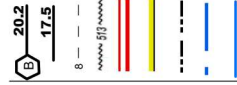
NO SCREEN
Area of Minimal Flood Hazard Zone X
Effective LOMR
Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES



Channel, Culvert, or Storm Sewer
Levee, Dike, or Floodwall

OTHER FEATURES



Cross Sections with 1% Annual Chance Water Surface Elevation
Coastal Transect
Base Flood Elevation Line (BFE)
Limit of Study
Jurisdiction Boundary
Coastal Transect Baseline
Profile Baseline
Hydrographic Feature

MAP PANELS



Digital Data Available
No Digital Data Available
Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/4/2024 at 9:28 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

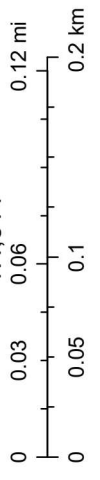
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

435 CR 3838, Bridgeport



7/3/2024, 5:23:32 PM

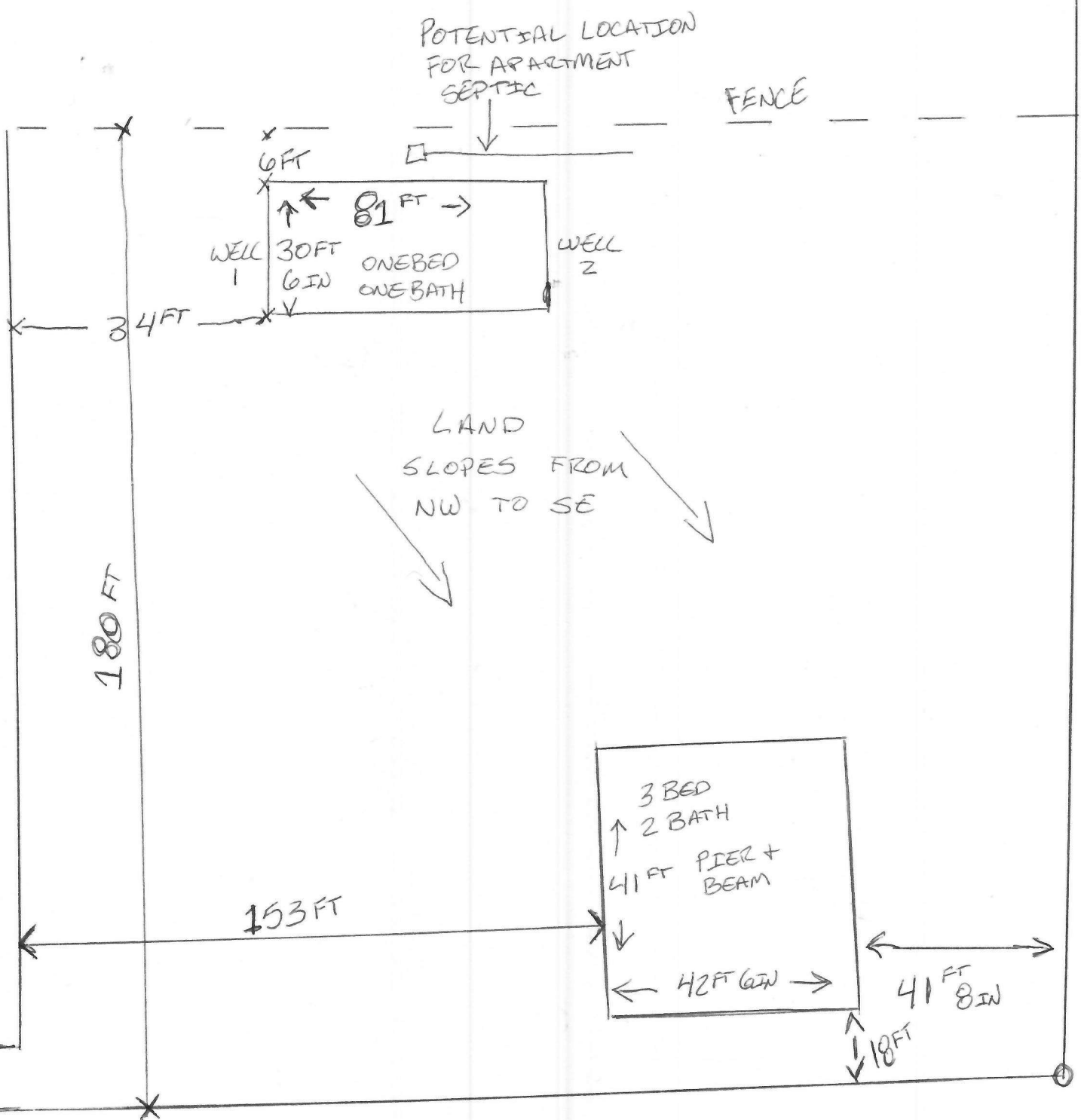
1:4,514



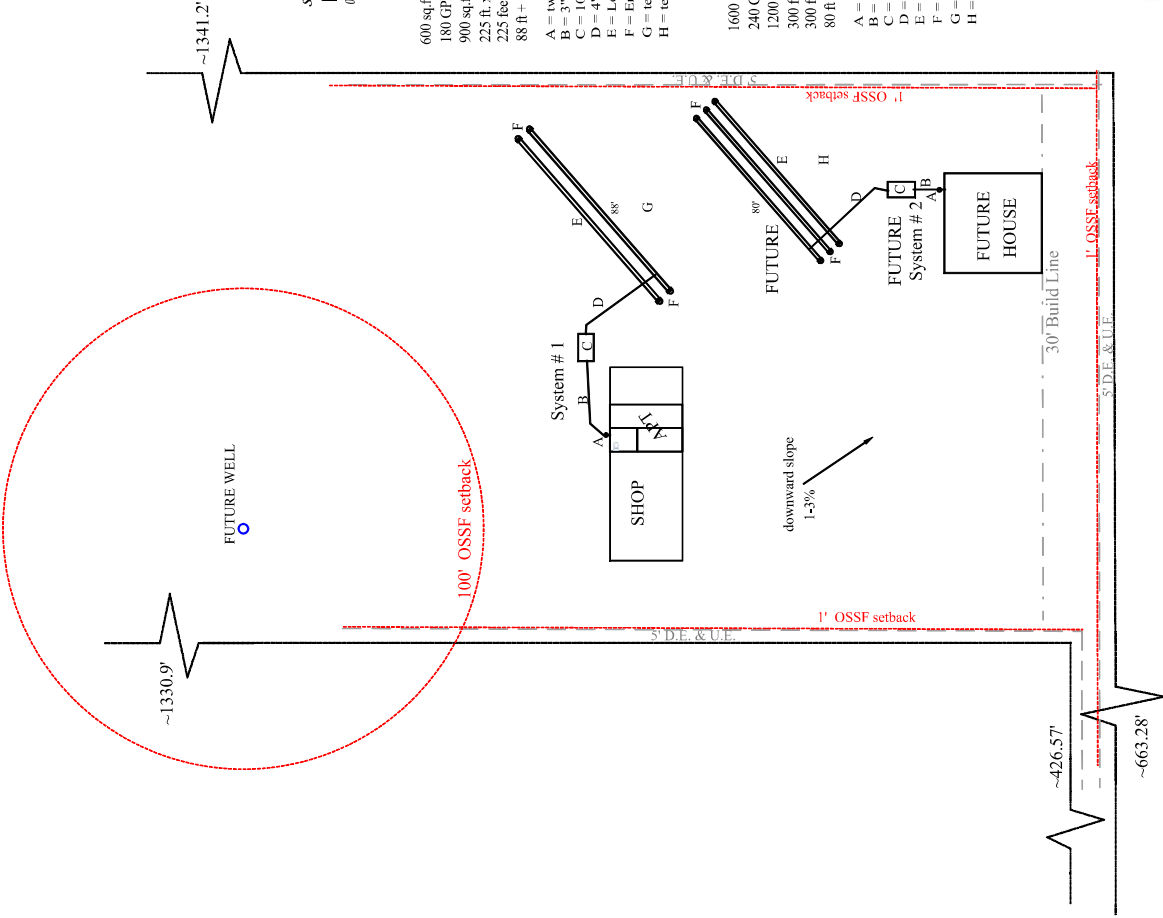
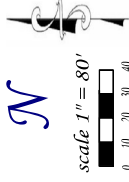
Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NIMA, Geodatasysteisen, Rijkswaterstaat, GSA, Geoland, FEWA,

Wise County Appraisal District, BIS Consulting - www.bisconsulting.com
Disclaimer: This product is for informational purposes only and has not been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of boundaries.

WELL SHOWN ~~AS~~ POTENTIAL SITE,
WELL NOT YET DRILLED



Baughter Property
435 CR 3838
Bridgeport
Parker County



System # 1
600 sq.ft. 1 bedroom dwelling = 180 GPD
180 GPD / 0.2 gal./sq.ft./day = 900 sq.ft.
900 sq.ft. / 4 = 225 linear feet
225 ft. x 0.25 reduction = 56 linear feet
225 feet + 56 feet = 169 total feet
88 ft + 88 ft = 176 total feet

A = two way clean out, existing.
B = 3" sch 40 pvc, existing
C = 1000 gallon two compartment septic tank.
D = 4" SDR 35 pvc pipe
E = Leaching chamber panels,(ADS ARC 24)
F = End Cap
G = test hole # 1
H = test hole #2

System # 2

1600 sq.ft. 3 bedroom dwelling = 240 GPD
240 GPD / 0.2 gal./sq.ft./day = 1200 sq.ft.
1200 sq.ft. / 4 = 300 linear feet
300 ft. x 0.25 reduction = 75 linear feet
300 feet + 75 feet = 225 total feet
80 ft + 80 ft + 80 ft = 240 total feet

A = two way clean out, existing.
B = 3" sch 40 pvc, existing
C = 1000 gallon two compartment septic tank.
D = 4" SDR 35 pvc pipe
E = Leaching chamber panels,(ADS ARC 24)
F = End Cap
G = test hole # 1
H = test hole #2



Frank Powell RS

8 - 7 - 2024

CR 3838

NOTE: There is no flood hazard on property.



Frank Powell R.S.

Texas Registered Sanitarian # 3115
 TCEQ Site Evaluator Registration # OS9949
 PO Box 272, Copeville, Texas 75121
 214.957.8831 fkpent@gmail.com

OSSF Site Evaluation Report

Job Name/Homeowner:	Baugher Property		
Address:	435 CR 3838		
City, State, Zip:	Bridgeport	Texas	76426
Permit Agency:	Wise County Env Hlth	County:	Wise
Installer Name:	0		
Designed By:	Frank Powell R.S.		
Date:	August 5, 2024	Record # :	6914

SOIL BORING #1

DEPTH	SOIL CLASS	SOIL TEXTURE	GRAVEL ANALYSIS	SLOPE	DRAINAGE// WATER MOTTLES // TABLE	RESTRICTIVE HORIZON
0"-26"	Class II	Sandy Loam	< 30%	1-3%	none//none	No
26"-60"	Class III	Sandy Clay Loam	< 30%	1-3%	none//none	No

SOIL BORING #2

DEPTH	SOIL CLASS	SOIL TEXTURE	GRAVEL ANALYSIS	SLOPE	DRAINAGE// WATER MOTTLES // TABLE	RESTRICTIVE HORIZON
0"-26"	Class II	Sandy Loam	< 30%	1-3%	none//none	No
26"-60"	Class III	Sandy Clay Loam	< 30%	1-3%	none//none	No

SITE FEATURES

7.5 acre lot, native grass, no creek, no pond, no trees in main property, some trees along east boundary, no flood hazard. Soil is capable of sustaining vegetative growth. Proposed small apartment in barn with separate OSSF. Private well for water supply.

OBSERVATIONS _____ Suitable for Standard System _____

Site Evaluator: *Frank Powell RS*

License # OS9949

Frank Powell R.S.

Texas Registered Sanitarian # 3115
 TCEQ Site Evaluator Registration # OS9949
 PO Box 272, Copeville, Texas 75121
 214.957.8831 fkpent@gmail.com

Technical Information Sheet

Customer Name: Baughter Property 435 CR 3838 County: Wise Record #: 6914

Professional Design Required?: Yes If yes, professional design attached: Yes

Soil Test: Type: Class III Texture: Sandy Clay Loam Structure: Blocky

Sewer (House Drain): Pipe Size: 3" sch 40 PVC Pipe Slope: 1/8" per foot

Daily Wastewater Usage Rate: Q = 240 GPD Water saving devices: Yes

Criteria: Single Family ; 3 bedroom 1,600 SQ FT

Treatment Unit:

Septic Tank: Yes Aerobic Unit: No

Size Required: 750 Size Proposed: 1000

Tank Dimensions: 68" W x 59" H x 125" L Liquid Depth (bottom of tank to outlet): 44"

Manufacturer: Quality Concrete Material / Model #: Concrete QC 1100

Pretreatment Tank: No Type: N/A

Other: 0

Disposal System:

Type: Leaching Chambers Area Required : sq ft 1200 Area Proposed**: sq ft 960

Trench width : 2 Trench Length: 240 Trench depth: 18"-36"

Type and size of pipe: 4" SDR 35 Barrier type: N/A

Backfill Material: Native Soil Other: **25% reduction for panels

Design Setbacks:

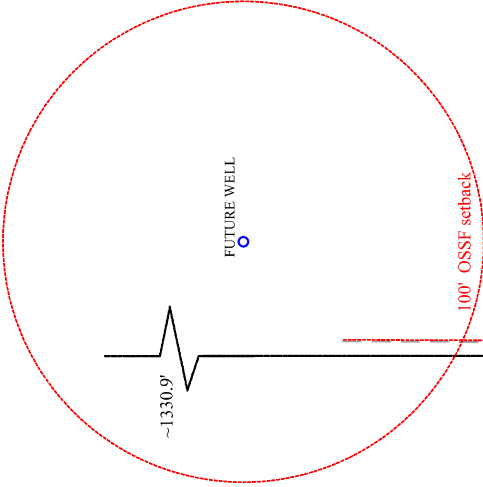
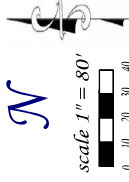
The following items are required to be shown on all designs if located within 150' of proposed disposal area. This includes items on adjacent properties.

	APPLIES	N/A
1. Property Lines	X	-
2. Structures, foundations, or improvements	X	-
3. Swimming pool	-	X
4. Water lines and meters	X	-
5. Existing septic systems	-	X
6. Sharp slopes or breaks	-	X
7. Streams, ponds, or lakes	-	X
8. Wells or cisterns	X	-
9. Easements & flood zones	-	X



Designer: Frank Powell RS Registration # 3115 Date: August 5, 2024

Baughter Property
435 CR 3838
Bridgeport
Parker County

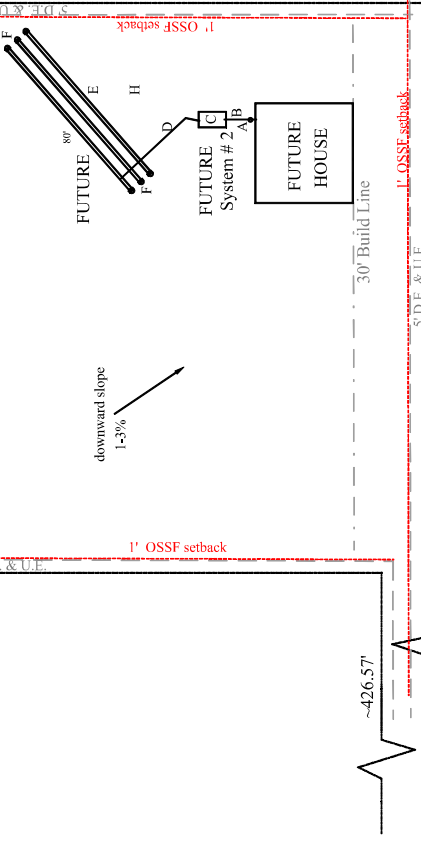


System # 1
 600 sq.ft. 1 bedroom dwelling = 180 GPD
 180 GPD / 0.2 gal./sq.ft./day = 900 sq.ft.
 900 sq.ft. / 4 = 225 linear feet
 225 ft. x 0.25 reduction = 56 linear feet
 225 feet - 56 feet = 169 total feet
 88 ft + 88 ft = 176 total feet

A = two way clean out, existing.
 B = 3" sch 40 pvc, existing
 C = 1000 gallon two compartment septic tank.
 D = 4" SDR 35 pvc pipe
 E = Leaching chamber panels,(ADS ARC 24)
 F = End Cap
 G = test hole # 1
 H = test hole #2

System # 2
 1600 sq.ft. 3 bedroom dwelling = 240 GPD
 240 GPD / 0.2 gal./sq.ft./day = 1200 sq.ft.
 1200 sq.ft. / 4 = 300 linear feet
 300 ft. x 0.25 reduction = 75 linear feet
 300 feet - 75 feet = 225 total feet
 80 ft + 80 ft + 80 ft = 240 total feet

A = two way clean out, existing.
 B = 3" sch 40 pvc, existing
 C = 1000 gallon two compartment septic tank.
 D = 4" SDR 35 pvc pipe
 E = Leaching chamber panels,(ADS ARC 24)
 F = End Cap
 G = test hole # 1
 H = test hole #2



Frank Powell RS

8 - 7 - 2024

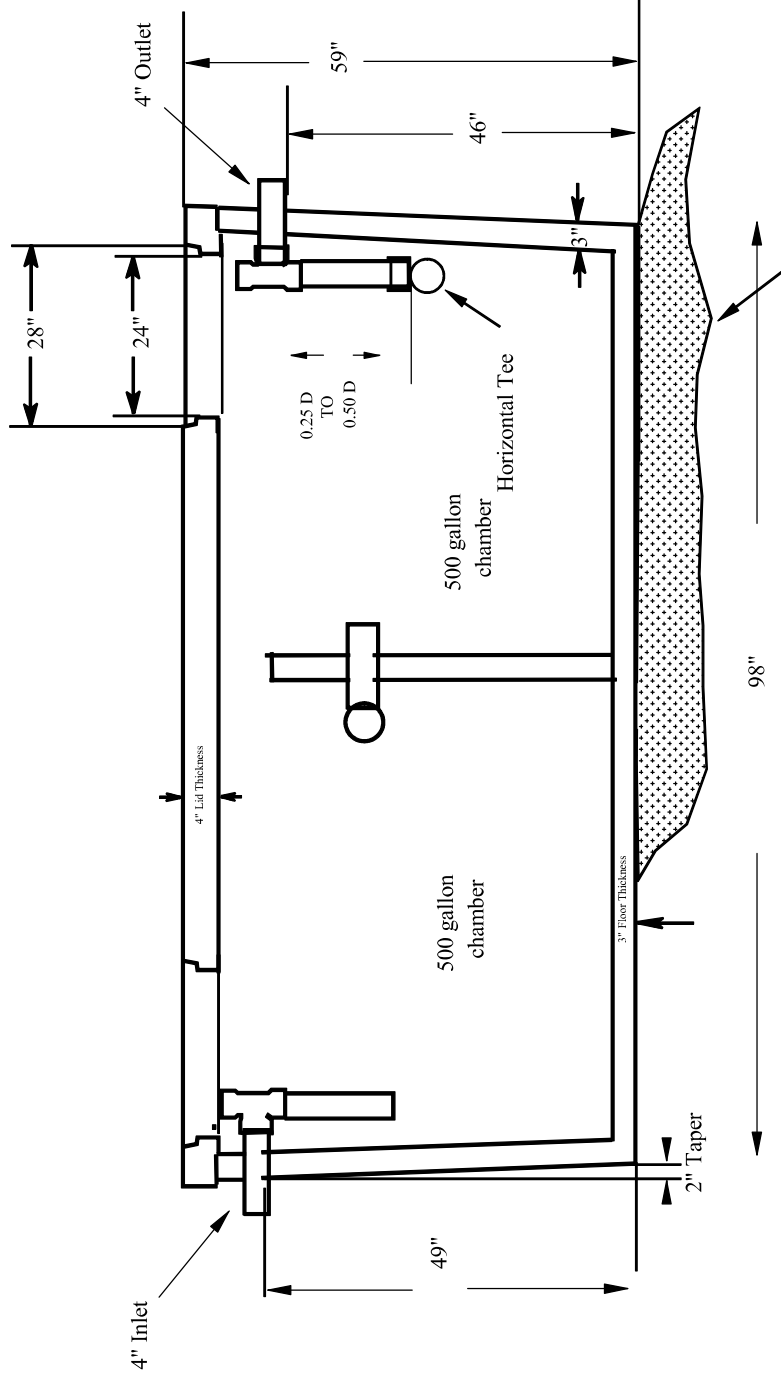
NOTE: There is no flood hazard on property.

CR 3838

1000 Gallon Two Compartment Tank Profile

DEPTH MAY VARY BUT NOT TO EXCEED 12 INCHES, UNLESS A RISER IS INSTALLED ON EACH CLEAN OUT AND EXTENDS TO NO MORE THAN SIX INCHES BELOW THE GROUND SURFACE. IF RISERS ARE AT THE SURFACE, THEN UNAUTHORIZED ACCESS MEASURES MUST CONFORM TO TITLE 30, TAC CHAPTER 285.38

THE PIPE FROM THE TANK TO THE DRAIN FIELD WILL BE A MINIMUM OF 3" AND SDR 35 OR EQUIVALENT WILL HAVE A MINIMUM OF 12" FALL TO DRAIN FIELD WILL HAVE A MINIMUM LENGTH OF 5' TO DRAIN FIELD



4" MINIMUM OF CUSHION OF EITHER SAND, SANDY LOAM, CLAY LOAM, OR PEA GRAVEL.



Arc 24

THE ARC 24 CHAMBER BY INFILTRATOR

Leaching chambers are rapidly becoming the product of choice for leachfield applications over conventional pipe and gravel systems. Their lightweight construction offers lower installed costs and less intrusive installations.



ENGINEERED FOR OPTIMAL PERFORMANCE

The Arc 24 septic leaching chamber is a sturdy, lightweight plastic unit that combines maximized infiltrative surface area and storage capacity with an improved structural design to handle most any conventional leachfield system challenge without sacrificing performance.

FEATURES & BENEFITS:

- Injection-molded from polyolefin for lightweight and sturdy design.
- 20-degree integral articulating joint that is ideal for either straight or contoured septic leachfield applications.
- Designed to accommodate both gravity-fed and pressure-dosed systems.
- Corrugated chamber design eliminates flat surfaces and provides increased load bearing capability in the trench.
- “Lock and Drop” joint provides a more positive connection during installation and backfill.
- A universal inlet/outlet endcap.
- Inspection vent ports on every unit with easy-to-remove knockouts for maximum job site flexibility.
- Convenient five-foot lengths are easy to handle.
- Quickly installed by one person into two-foot wide trench or bed applications.
- Increased plumbing option with Side Port Coupler component which snaps in place to allow side entry at any joint throughout trench line.
- Diamond plate texture increases slip resistance and enhances ease of installation.



THE ARC 24 CHAMBER BY INFILTRATOR

CHAMBER REQUIREMENTS

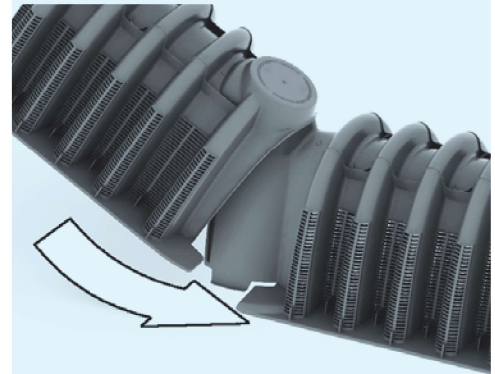
Chamber shall meet the load rating of H-10 (16,000 lb per axle) with a minimum of 12 inches of cover when tested in accordance with IAPMO PS 63 and installed in accordance with manufacturers installation procedures.

CHAMBER CONNECTION

Each chamber shall interlock with an integral articulating joint. Articulating joints shall have a free range of horizontal rotation of 20 degrees, with a maximum of 10 degrees in either direction. Articulating joint shall be constructed by placing the dome with engaging knuckle of the incoming chamber over the post end of the previously-installed chamber, with final engagement occurring when the lower base flanges of the incoming chamber under-lap the raised base flanges of the previously-installed chamber.



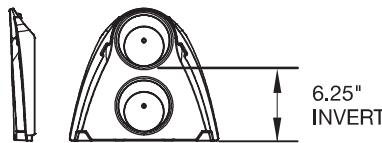
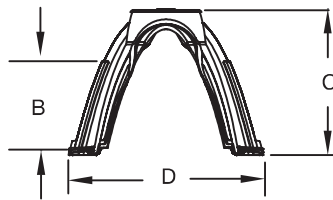
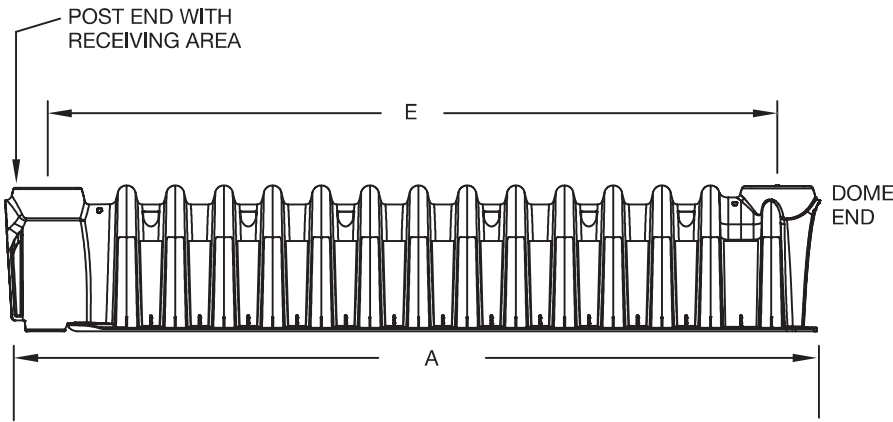
Diamond Plate Texture



ARC 24 Overlap



Side Port Coupler



Arc 24 CHAMBER	
Length (A)	67"
Repeat Length (E)	60"
Sidewall Height (B)	7.5"
Overall Height (C)	12"
Overall Width (D)	22.5"
Weight	13 lbs
Total Bottom Area	7.96 sq ft
Capacity	5.02 cu ft (37.5 gal)



INFILTRATOR
water technologies

4 Business Park Road
P.O. Box 768
Old Saybrook, CT 06475
860-577-7000 • Fax 860-577-7001
1-800-221-4436
www.infiltratorwater.com

U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844 Canadian Patents: 1,329,959; 2,004,564 Other patents pending. Infiltrator, Equalizer, Quick4, and SideWinder are registered trademarks of Infiltrator Water Technologies. Infiltrator is a registered trademark in France. Infiltrator Water Technologies is a registered trademark in Mexico.

Contour, MicroLeaching, PolyTuff, ChamberSpacer, MultiPort, PosiLock, QuickCut, QuickPlay, SnapLock and StraightLock are trademarks of Infiltrator Water Technologies. PolyLok is a trademark of PolyLok, Inc. TUF-TITE is a registered trademark of TUF-TITE, INC. Ultra-Rib is a trademark of IPEX Inc.

© 2013 Infiltrator Water Technologies, LLC. All rights reserved. Printed in U.S.A.

ARC003 0713ISI

Contact Infiltrator Water Technologies' Technical Services Department for assistance at 1-800-221-4436

Leaching Chamber Profile

