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Variance Request for Septic System

Johnson County Subdivision Rules and Regulations state only one septic system per one (1) acre, Section VII A. Variance fee is \$100 per request. To request a variance for the purpose of:

- _____ installing a septic system on a lot or tract of less than an acre or
- X two residences / structures on one (1) septic system or
- _____ installing a second septic system on a lot less than 2 acres

Please provide the following information. This request will be presented to the Commissioner's Court for their decision.

Owner Rustin & Ashli Mayse Date 5/15/2018

Phone no. 903-229-0591

Email address rustinmayse@kmpcorp.com

Property Information for Variance Request:

Property 911 address 7325 CR 206 Grandview, TX 76050

Subdivision name _____ Block _____ Lot _____

Survey L Menefee Abstract 554 Acreage 13.96

Size of existing residence: 3375 sq. ft. shop - 500

Does this lot currently have a septic system? Yes No System type Aerobic

ETJ: Yes - City _____ No

Is a part of the property located in a FEMA designated Floodplain? Yes No

Reason for request two structures with 1 septic. Smaller structure contains a convenience only restroom

Provide the following with this request:

- Copy of your plat if property has been platted
- Copy of property deed
- Survey or drawing showing existing home, buildings, existing & proposed septic system locations

Sincerely,
Barney Ballard P.E.



BALLARD CORPORATION
 Barney Ballard, PE 36781
 140 Magnolia St
 Burleson, TX 76028
 Office: 817-205-1801



JOHNSON COUNTY Department of Public Works

1 North Main Street/Suite 305, Cleburne, TX 76033

development@johnsoncountytx.org - (817) 556-6380 - Fax (817) 556-6391

Application for 'Authorization to Construct' OSSF System

Office use only Authorization to Construct Permit # _____ Date _____
 FIRM Panel # _____ Precinct _____

This is to certify that: _____ has paid a
 Fee of: \$475.00 Aerobic Septic Systems \$375.00 All other Septic Systems

And has complied with the rules and regulations of this department for the construction of a private liquid waste disposal system - address and owner listed below. Inspector approval: Samuel Boyd Date 6-8-18
(Signature) 6.11.18

This AUTHORIZATION TO CONSTRUCT is only valid with INSPECTOR APPROVAL and is valid for 1 year from the issue date unless revoked for non-compliance with the rules and regulations of this department

EXISTING PERMIT 551478

To be completed and signed by Property owner

Property Owner's Name: RUSTON MAYSE Ph. # 903-229-0591
 911 site address: 7325 CR 206 Grandview Current mailing address: SAME
 Legal Description: Metes and Bounds: Acreage: 2.0
 Recorded deed: Volume _____ Page _____ Survey L. Mandee Abstract 554 -or-
 Subdivision: _____ Lot #: _____ Blk #: _____ Phase / Section #: _____

Please attach verification of legal description such as a copy of: Deed and Survey or other documentation

Type of Home / Building: New Existing Site Built Manufactured Bldg. Sq. Ft. 3375
 Single-Family # Bdrms 4 Multi-Family # Bdrms _____ Commercial # Employees _____
 Well -or- Water Co. _____

I certify that the above statements are true and correct to the best of my knowledge. Authorization is hereby given for Johnson County Public Works to enter upon the above described property for the purpose of site evaluation and investigation of an on-site sewage facility.

[Signature]
(Signature of Owner)

1-1-2018
(Date) **NEW DESIGN SUBMITTED 6-1-2018**

Site Evaluator: Barney Ballard License No. PE36781
 Phone No: 817-295-4891 Other No. _____
 Mailing Address: 140 Magnolia Street City Burleson State TX Zip 76028
 Installer: Danny R. Scarbro License No. OSII 0004616
 Phone No: 817-373-3170 Other No. Cell 817-996-6031
 Mailing Address: PO BOX 485 City Rio Vista State TX Zip 76093

****System must be installed according to specifications on attached design****



JOHNSON COUNTY PUBLIC WORKS

2 North Mill Street/Suite 305, Cleburne, TX 76033
development@johnsoncountytx.org (817) 556-6380

ON-SITE SEWAGE FACILITY TECHNICAL INFORMATION FOR PERMIT

PROFESSIONAL DESIGN REQUIRED: Yes No If Yes, professional design attached: Yes No

Designer Name: Barney Ballard License Type and No. PE 36781
Phone No. 817-295-4891 Other or Fax No. _____
Mailing Address: 140 Magnolia St City: Burleson State: TX Zip: 76028

I. TYPE AND SIZE OF PIPING FROM: (Example: 4: SCH 40 PVC)

Stub out to treatment tank: 3" or 4" SCH 40 PVC
Treatment tank to disposal system: 3/4" or 1" SCH 40 Purple Coded PVC Pipe

II. DAILY WASTEWATER USAGE RATE: Q= 300 (gallons/day)

Water Saving Devices: Yes No

III. TREATMENT UNIT(S): Septic Tank Aerobic Unit

A. Tank Dimensions: 159"L x 68"W x 71"H Liquid Depth (bottom of tank to outlet): 55"
Size proposed: 500 (gal)* Manufacturer: NUWATER
Material/Model# CONCRETE B550

Pretreatment Tank: Yes No NA Size: 400 (gal)
Pump/Lift Tank: Yes No NA Size: 771 (gal)

B. OTHER Yes No *If yes, please attach description.*

IV. DISPOSAL SYSTEM:

Disposal Type: Spray Irrigation
Manufacturer and Model K-Rain rotors
Area Proposed: 4,824 SF Area Required: 4,688 SF

V. ADDITIONAL INFORMATION:

NOTE - THIS INFORMATION MUST BE ATTACHED FOR REVIEW TO BE COMPLETED.

A. Soil/Site Evaluation B. Planning materials (If Applicable).

DO NOT BEGIN CONSTRUCTION PRIOR TO OBTAINING AUTHORIZATION TO CONSTRUCT. UNAUTHORIZED CONSTRUCTION CAN RESULT IN CIVIL AND/OR ADMINISTRATIVE PENALTIES.

SIGNATURE OF INSTALLER OR DESIGNER: Barney Ballard DATE: 5-31-18

JOHNSON COUNTY - OSSF SOIL EVALUATION FORM

Date Performed 1-10-18

Owner's Name Ruston and Ashli Mayse

Physical Address 7325 CR 206, Grandview, TX 76050

Site Evaluator Barney Ballard, PE

O.S. Number PE 36781

Proposed Excavation Depth 36"

*At least two soil evaluations must be performed on the site, at opposite ends of the disposal area. Please show the results of each soil evaluation on a separate table. Locations of soil evaluations must be shown on site drawing.

*For subsurface disposal, soil evaluations must be performed to a depth of at least 2 ft below the proposed excavation depth. For surface disposal, the surface horizon must be evaluated.

* Please describe each soil horizon and identify any restrictive features in the space provided below. Draw lines at the appropriate depths.

Soil Boring Number 1

Depth Inches	Textural Class	Drainage/Mottles Water Table	Restrictive Horizon	Comments
= <u>12</u>	III	NO	NO	Sandy Clay Loam
= <u>24</u>	III	NO	NO	Clay Loam
= <u>36</u>	IV	NO	Yes	Brown Silty Clay
= <u>48</u>	IV	NO	Yes	Brown Silty Clay
= <u>60</u>	IV	NO	Yes	Clay / Rock

Soil Boring Number 2

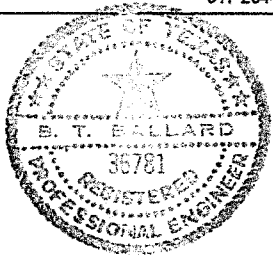
Depth Inches	Textural Class	Drainage/Mottles Water Table	Restrictive Horizon	Comments
= <u>12</u>	III	NO	NO	Sandy Clay Loam
= <u>24</u>	III	NO	NO	Clay Loam
= <u>36</u>	IV	NO	Yes	Brown Silty Clay
= <u>48</u>	IV	NO	Yes	Brown Silty Clay
= <u>60</u>	IV	NO	Yes	Clay/Rock

I certify that the above statements are true and are based on my own field observations.

ATTESTED BY: Barney Ballard 1-10-18 Site Evaluator No. PE 36781

140 Magnolia St, Burleson, TX 76028 Address 817-294-4891 Phone

The test data and other information on this report is required by Johnson County. The design, construction and installation of each system is based upon specific conditions affecting each lot or tract and must be subsequently approved by Johnson County

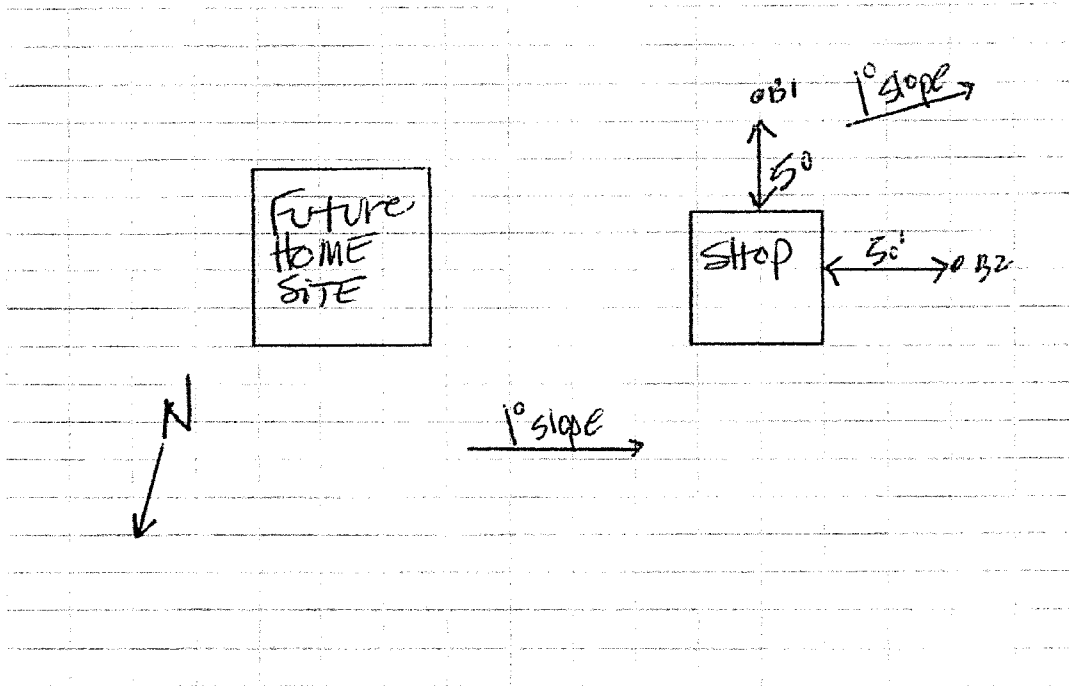


JOHNSON COUNTY - SITE EVALUATION REPORT

Date 1-10-2018
 Name Ruston and Ashli Mayse Phone 903-229-0591
 Address 7325 CR 206, Grandview, TX 76050
 PROPERTY LOCATION
 Lot _____ Block _____ Subdivision _____
 Street/Road Address _____
 Additional Information 2.0 Acre Tract out of L. Menefee Survey, Abst #554, Johnson County, TX

SCHEMATIC OF LOT OR TRACT

Compass North, adjacent street(s), direction of slope, property lines
 Location of natural, constructed or proposed drainage ways, water impoundment areas, cut or fill banks, sharp slopes and buildings.
 Location of existing or proposed water wells.
 Location of (numbered) soil boring and dug pits (show distance of each hole from property line or other discernible point).



Presence of 100 year flood zone Yes _____ No
 Presence of upper water shed Yes _____ No
 Presence of adjacent ponds, streams, water impoundment area Yes _____ No
 Existing or proposed water well in nearby area Yes _____ No

Firm Panel # 48251CO375J

ATTESTED BY:

Signature Bonney Ballard 1-10-18 Site Evaluator No. PE 36781

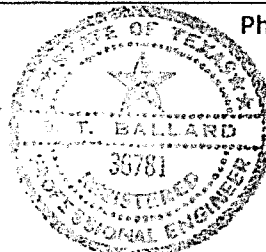
140 Magnolia St, Burleson, TX 76028

817-295-4891

Address

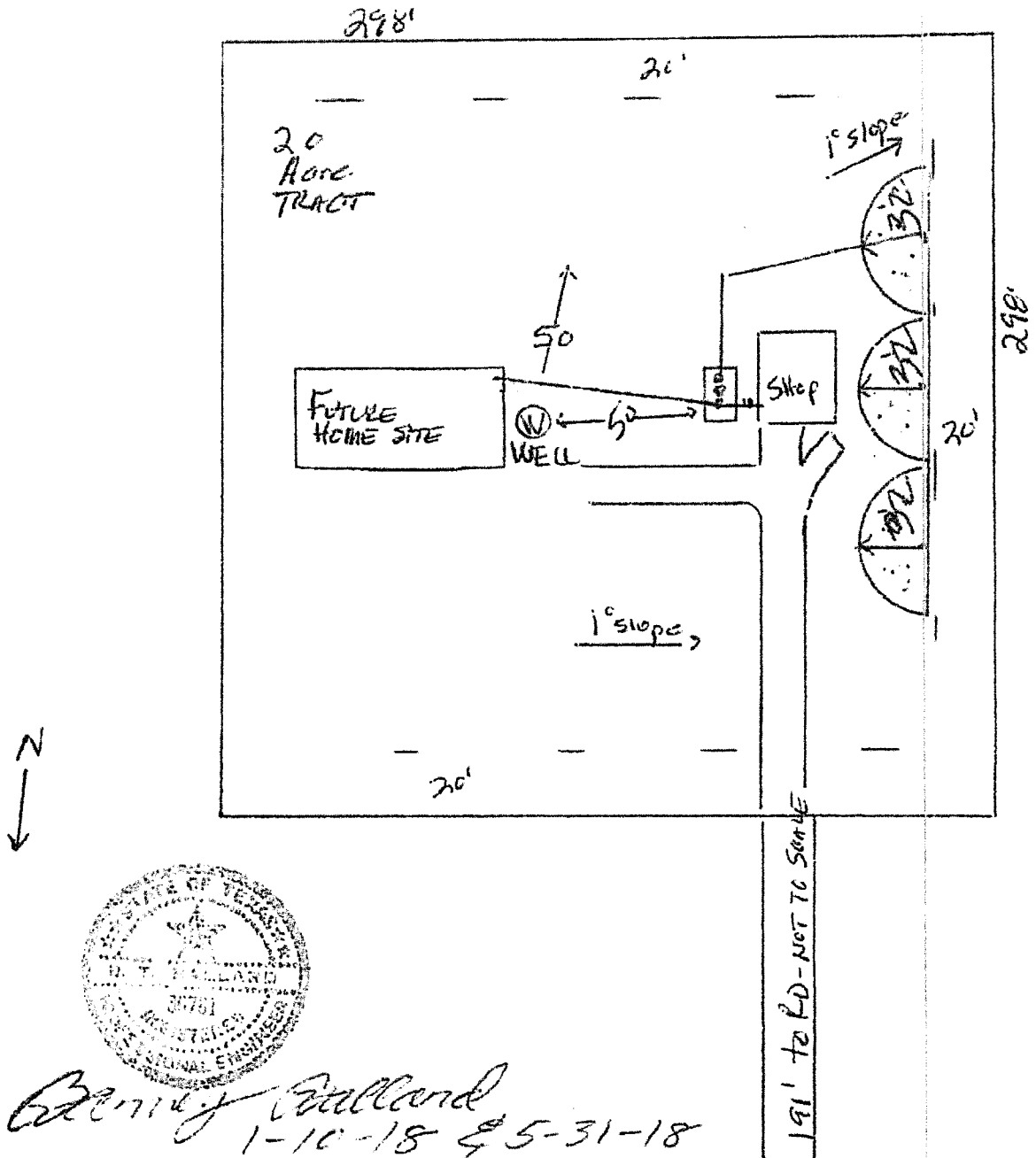
Phone

The information on this report is required by Johnson County. The design, construction and installation of each system is based upon specific conditions affecting each lot or tract and must be subsequently approved by Johnson County.



Revised 7/10/2012

SITE SPECIFIC AEROBIC DESIGN
Ruston Mayse
7325 CR 206
Grandview, TX 76050



Benny Bullard
1-10-18 & 5-31-18

CR 104

CR 206

CR 206

ON-SITE SEWAGE FACILITY – SITE SPECIFIC SITE EVALUATION AND AEROBIC DESIGN

Prepared By:
BARNEY BALLARD, PE 36781
140 Magnolia St
Burleson, TX 76028
(817) 295-4891

PREPARED FOR: Ruston Mayse

SITE ADDRESS: 7325 CR 206, Grandview, TX 76050

LEGAL DESCRIPTION: 2.0 Ac tract out of
L. Menefee Survey, Abst #554

INSTALLER: Danny R. Scarbro

POTABLE WATER SOURCE: Private Well on Site – 100 LF safe to spray areas and 50 LF safe to ATU.

S51478 – the existing 500 GPD ATU installed under this permit is being used on a small personal shop for a convenience restroom only. The system shall now be attached via SCH 40 PVC to the personal 4 ER home. The ATU treatment tanks are sized appropriately for the SF/BRs on the new construction home, however, the spray pattern has been revised and upsized to accommodate the additional daily flow.

DESIGN PARAMETERS USING TCEQ CHPT 285

Estimated Flow: 4 Bedroom / 3,375 SF private residence w/water saving = 300 GPD

Loading Rate: 0.64

Spray area required: 4,688 SF

Spray area designed: 4,924 SF

TREATMENT TANK DESIGN PARAMETERS

Pre-treatment tank capacity: 400 gallons

Aeration / treatment tank capacity: 500 gallons per day NSF ATU Brand: NUWATER

Dosing tank capacity: 770 gallons

SYSTEM EFFLUENT DISCHARGE PLAN

Sprinkler area: 3 – 32'R heads @ 9180 (1,608 SF each)

Total coverage: 4,824 SF

COMPONENT SPECIFICATIONS

Effluent pump ½ HP, 20 GPM, stainless, submersible
Chlorination device: NSF approved tablet stack chlorination device
Rotor specs: Max inlet pressure rate at 40 psi with low angle trajectory nozzles (less than 13 degree)
Vegetation cover: All areas affected by spray irrigation shall be covered in all season vegetation.
Electrical: All electrical wiring shall be in accordance with the latest edition of the N.E.C.
Secondary Safety Caps: All tanks must have inspection ports located on top over inlet/outlet which extend to ground surface utilizing a secondary plug or other suitable restraint system below the riser cap to prevent tank entry if the cap is damaged or removed.

Submitted By: Barney Ballard, Barney Ballard, PE 36781

5-31-18

SYSTEM FLOW PLAN

Discharge from the residence shall gravity flow via 3” – 4” sch 40 PVC pipe through a two-way cleanout within 50 LF of the structure into a 400 gallon pre-treatment (trash) tank which is designed to reduce the concentration of solids, oil and fat from the wastewater.

Separated liquids shall gravity flow from this tank / compartment into the aeration chamber. Once the aeration process is complete, remaining suspended solids will be removed during the clarification process. The clear, treated effluent from the stilling chamber shall gravity flow via 3” sch 40 PVC pipe across the stack type, NSF approved chlorinator as it flows into the dosing tank / chamber.

The dosing chamber is 771 gallons volume with liquid depth of 55”. Each inch represents 13 gallons. In the event of pump failure a total volume of 250 gallons will be left exceeding the 1/3 flow above the alarm. The tank control panel is equipped with an audible and a visual alarm system.

Treated effluent will pass through a ½ HP pump to spray rotors via ¾” to 1” SCH 40 PVC purple coded pipe. Treated effluent is discharged via low angle nozzles onto vegetation for evaporation into the atmosphere. The installer may later the plan for location of the spray rotors to accommodate landscape patterns and land use by owner without notice to PE so long as the new design meets the requirement for spray coverage and maintains all safe distance setbacks.

SITE EVALUATION RESULTS

Total site area: 2.0 AC

Depth of excavation: 36”

Depth to groundwater if any: N/A

Separation distances from well to tanks – 50’ and to sprayers – 50’ if pressure cemented or 100’ if no well log avail.

Separation distances to pool: 25’

Site suitability: Suitable

Restrictive Horizon: Yes

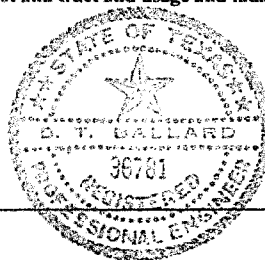
Boring #1 Results: SEE JOHNSON COUNTY SITE/SOIL FORMS ATTACHED.

DEPTH	SOIL CLASS	SOIL TYPE	MOTTLES	RESTRICTIVE
12-24”	III	Clay Loam	None	No
25-36”	III	Clay Loam	None	No
37-48”	IV	Silty Clay	None	Yes
49-60”	IV	Clay / Rock	None	Yes

Boring #2 Results:

DEPTH	SOIL CLASS	SOIL TYPE	MOTTLES	RESTRICTIVE
12-24”	III	Clay Loam	None	No
25-36”	III	Clay Loam	None	No
37-48”	IV	Silty Clay	None	Yes
49-60”	IV	Clay / Rock	None	Yes

Disclaimer: I certify that all content of this report are true, accurate, and based on my field observation or that of my associates. It should be understood that the test data and other information given in this report does not cover nor infer approval for the installation of the onsite sewage facility. The design, construction and installation are based upon the specific conditions affecting each lot and tract and usage and must be subsequently approved by the local county authorities.



Submitted by: Barney Ballard
 1-10-18 Revised
 1-23-18

Barney Ballard, PE 36781

Johnson County Public Works

Johnson County Public Works

1 North Main Street, Suite 305

Cleburne, TX 76033 (817) 556-6380

Receipt Number: 2018-786

6/14/2018 11:49 AM CG 1

Descriptions:

- | | | |
|----|----------|------------------|
| 1. | \$100.00 | Variance Request |
| 2. | | |
| 3. | | |
| 4. | | |

Received From:

Mayse Rustin and Ashli
7325 CR 206 Grandview

Amount Received:

\$100.00

Payment Information:

Check #1573

Permit

S51478

Signature / Initials: _____

CG 1 6/14/2018 11:49 AM