

3991

CORYELL COUNTY

800 E. MAIN STREET, Suite A
GATESVILLE, TX 76528
Phone: (254) 248-3188
Fax: (254) 865-2040

CONVENTIONAL

PERMIT TO OPERATE

On-Site Sewage Facility (OSSF)

Permit #: 3991

Location: 1432 FM 932, PURMELA TX 76566

Block: Lot:

Owner: NABORS, LEROY

Mailing address: PO BOX 21 PURMELA TX 76566

Checklist: ☒ Inside City Limits? YES ☐ NO ☒

Size of Tank Required: 1250 gal. 2/c Required Drain Field Area: 1575 sq. ft.

Size of Tank Installed: 1500 gal. 2/c Actual Drain Field Area: 1750 sq. ft.

Manufacturer: CENTEX PRE-CAST Model #: 3/c Serial #: N/A

Any modifications to the structure, system components, or changes of ownership may require a new permit. The owner must notify the Coryell County Designated Representative of the aforementioned changes.

Installer certifies by this signature that this OSSF is installed in full compliance with all current state and county regulations.

[Signature] OS0034634 3/2/20
Signature of Installer License # Date

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 will need it when selling your house or if a malfunction occurs.

THIS LICENSE 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 Coryell County and surrounding areas. This serves to notify all persons that an OSSF owned by the above named property owner has satisfied design, construction and installation requirements set forth by Coryell County and the Texas Commission on Environmental Quality (TCEQ). This Coryell County OSSF Original Permit is issued for the operation of the above identified on-site sewage facility, not to exceed 420 gallons per day.

All aerobic systems require ongoing maintenance and a copy of the maintenance contract must be provided to this office. All manufacturer's maintenance requirements must be maintained.

Additional Information: _____

[Signature] 30620 3/3/20
County Designated Representative License # Date

Orig Sent to
H/O 03/03/2020

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800 E. MAIN STREET, Suite A
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AUTHORIZATION TO CONSTRUCT

On-Site Sewage Facility (OSSF)

Permit #: 3991

Location: 1432 FM 932, PURMELA TX 76566
Block: Lot:
Owner: NABORS, LEROY
Mailing address: PO BOX 21 PURMELA TX 76566

This serves to notify all persons that the on-site sewage facility application, related technical data, and the appropriate fee have been received by the Office of the County Judge, Coryell County from the property owner. The application has been reviewed for technical and administrative consideration against standards set forth by both Coryell County and the Texas Commission on Environmental Quality (TCEQ). Approval is hereby granted for the construction as shown on the submitted plans.

ANY MODIFICATIONS TO SUBMITTED PLANS REQUIRE APPROVAL BY THE CORYELL COUNTY DESIGNATED REPRESENTATIVE PRIOR TO INSTALLATION.

You or your installer must contact the Coryell County Designated Representative 24 hours prior to completion to arrange the required facility final inspection. The authorization to construct is valid for twelve months from the date of issue. If a final inspection has not been performed within one year of issue, a new application and fee will be required.

COMMENTS:

HS Pido
Designated Representative

30626
License #

3.3.20
Date

2/25/2020 02:34 PM Page 1

Agency Official

Date

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65	10
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50	10

12



N 31-48557
W 097-95540



R.V.

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Permit Amount: ☐ Aerobic \$ 450.00 ☒ Anaerobic \$ 350.00
Commercial: ☐ \$ 550.00 Re-Inspection: ☐ \$ 100.00

PERMIT # 3991

CORYELL COUNTY

APPLICATION TO CONSTRUCT OR MODIFY OSSF

☒ New Installation ☐ Repair ☐ Alteration

Type of Disposal System

☐ Absorptive Mounds
☐ Drip Irrigation
☐ Evapotranspiration Beds
☐ Gravel-less Pipe

☒ Leaching Chambers
☐ Low Pressure Dosing
☐ PTI Systems
☐ Pumped Effluent

☐ Trenches
☐ Standard Bed
☐ Soil Substitution
☐ Surface Applications
☐ Other: Specify _____

Water Saving Devices: ☒ Yes ☐ No; System Capacity: GPD 420; SQ Footage of Drainfield: 1750

Water Source: ☒ Public Water/Supplier Multi County; ☐ Public Well; ☐ Private Well/Distance _____

Property Owner's Name: Leroy Nabors Tel: 972-978-0876

Current Mailing Address: PO Box 21 City: Purmela TX 76566

9-1-1 Site Address: 1436 FM 932 City: Coryell Co TX 76566

Inside City Limits? ☐ Yes ☒ No

Subdivision Name: _____ Legal Description: Block # _____ Lot # _____ Section # _____

Acres: 1.98 Name of Survey: Simpson Abst # 926 Vol # _____ Pg # _____

Type of Facility: ☒ Residential; Number of Bedrooms: 1 Square Feet of Living Area: 1500
☐ Built on Site ☐ Pre-Built - Modular ☒ Mobile Home → RV

☐ Commercial/Non-Residential (includes multi-family residence) Type of Facility: _____

Number of Employees/ Occupants/ Units: _____ Days occupied per week: _____

Tank Manufacturer: Haas Systems; Size tank required: 1250 gal; Size tank installed: 1500 gal

Written verification by a Professional Engineer that the manufacturer is in compliance with ASTM
Standard C-1227 must be provided if not on file with Coryell County. Attached: ☐ Yes ☐ No

Site Evaluator: Chris Grubbe License #: 050034809 Tel: 254-865-3402

Designer: Ben Wilson License #: 050034634 Tel: 254-542-3176

Installer: Chris Grubbe License #: 050034634 Tel: 254-865-3402

I certify that the above statements are true and correct to the best of my knowledge. Authorization is hereby given to the Designated Representative of Coryell County, Texas, to enter upon the above property for the purpose of inspecting the site and the on-site sewage facility (OSSF). Construction of the on-site sewage system must not begin until this application is approved and a PERMIT TO OPERATE is issued.

U
Signature of Owner or Representative

3/2/20
Date

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PERMIT # 3991

OSSF SOIL EVALUATION

CORYELL COUNTY

Property Owner: Levy Nabors

Site Address: 1436 FM 932
Coryell County, 76566

REQUIREMENTS: At least two (2) soil excavations must be performed on the site at opposite ends of the proposed disposal area. Locations of soil boring 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 (2) feet below the proposed excavation depth. For surface disposal, the surface horizon must be evaluated.

Describe each soil horizon and identify any restrictive features on the form. Indicate depths where features appear.

SOIL BORING # 1					
Depth (feet)	Texture Class	Structure (if applicable)	Drainage (Mottles/Water Table)	Restrictive Horizon	Observations
0	topsoil	Granular	N/A	N/A	Distinct layers of Sand
1	1b				
2	Sand				
3					
4					
5					

SOIL BORING # 2					
Depth (feet)	Texture Class	Structure (if applicable)	Drainage (Mottles/Water Table)	Restrictive Horizon	Observations
0	Topsoil	Granular	N/A	N/A	Distinct layers of Sand
1	1b				
2	Sand				
3					
4					
5					

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

CJ
Signature of Site Evaluator

050034809
License #

3/2/20
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JUDGES OFFICE

OSSF SITE EVALUATION

PERMIT # _____

CORYELL COUNTY

Applicant Information if not Homeowner

(includes builders):

Name: Chris Gribble
 Address: 5215 FM 1829
 City: Gatesville, TX 76528
 Tel: 254-865-3402 Fax: _____

Installer Information:

Name: Chris Gribble
 Company: Gribble Construction
 Address: 5215 FM 1829
 City: Gatesville, TX 76528
 Tel: 254-865-3402 Fax: _____

Professional Design required? ☒ Yes ☐ No; If yes, professional design attached: ☒ Yes ☐ No

Complete the Following:

Incorporated Area? ☐ Yes ☒ No
 Presence of upper water shed? ☐ Yes ☒ No
 Existing/proposed water well in nearby area? ☐ Yes ☒ No
 Organized sewage service available to lot/tract? ☐ Yes ☒ No
 Presence of adjacent ponds, streams, water impoundments? ☒ Yes ☐ No

Site Evaluator Information: (if not installer)

Name: Same as installer
 Company: _____
 Address: _____
 City: _____
 Tel: _____ Fax: _____

Schematic of Lot or Tract

Show: Compass North, adjacent streets, property lines, property dimensions, location of buildings, easements, swimming pools, water lines and other structures where known. Location of existing or proposed water wells within 150 feet of property. Indicate slope or provide contour lines from the structure to the farthest location of the proposed soil absorption or irrigation area. Location of soil borings or dug pits (show location with respect to a known reference point). Location of natural, constructed, or proposed drainage ways, (streams, ponds, lakes, rivers, high tide of salt water bodies) water impoundment areas, cut or fill bank, sharp slopes and breaks.

SITE DRAWING

See Attached

[Signature]
 Signature of Site Evaluator

05C031809
 License #

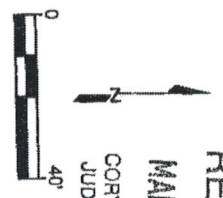
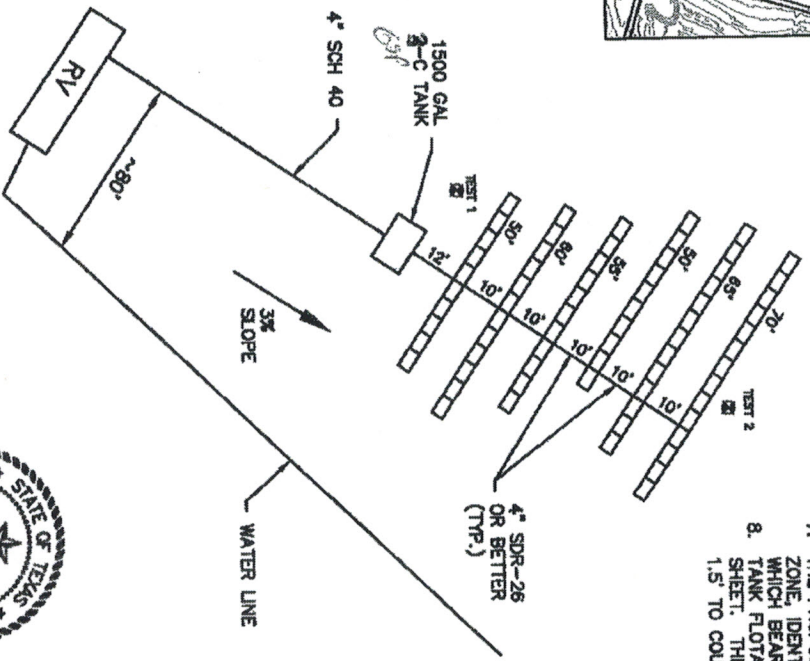
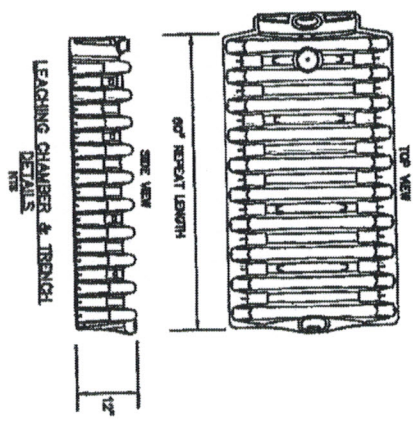
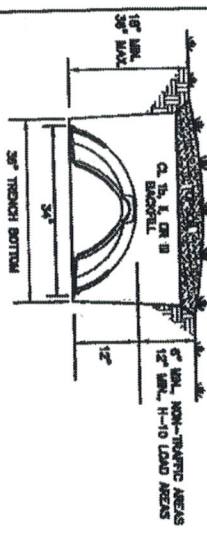
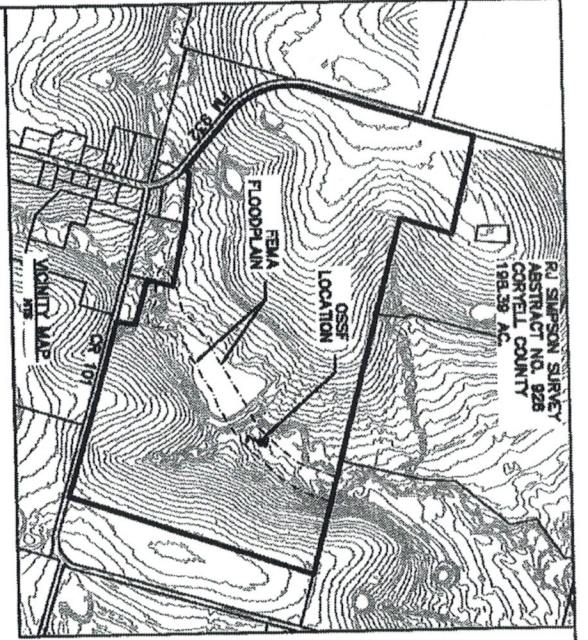
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- GENERAL NOTES:**
1. THE DESIGN SHOWN HEREON IS IN ACCORDANCE WITH TCEQ CHAPTER 285 - ON-SITE SEWER FACILITIES (OSSF's).
 2. THE PROPOSED SYSTEM CONSISTS OF A CONVENTIONAL SEPTIC TANK & ABSORPTIVE DRAIN FIELD USING LEACHING CHAMBERS.
 3. CURRENT RESIDENCE CONSISTS OF AN RV ON SITE. FUTURE RESIDENCE SIZE IS UNKNOWN AT THIS TIME. PROPOSED SYSTEM IS DESIGNED FOR A MAXIMUM OF 420 GAL PER DAY.
 4. EXCAVATED AREA SHALL BE SODDED OR SEEDED AFTER BACKFILLING.
- SITE INFORMATION:**
5. THE DESIGN SHOWN HEREON IS BASED ON THE SITE EVALUATION PROVIDED BY CHRIS GRIBBLE, SEP34809. REFER TO THE ATTACHED SITE EVALUATION FORM ON PERMIT.
 6. NO EXISTING WATER WELLS WERE FOUND WITHIN 150' ON THE PROVIDED PLAT.
 7. THE PROPOSED OSSF IS LOCATED WITHIN THE 100-YR FLOOD ZONE, IDENTIFIED AS 'ZONE A' ON FEMA FIRM MAP 48099C0250F, WHICH BEARS AN EFFECTIVE DATE OF FEBRUARY 17, 2010.
 8. TANK FLotation CALCULATIONS CAN BE FOUND ON THE ATTACHED SHEET. THE PROPOSED TANK SHALL BE BURIED A MINIMUM OF 1.5' TO COUNTERACT FLotation.

ABSORPTIVE DRAINFIELD DESIGN:

PARAMETERS:
FLOW RATE: 420 GPD
SOIL CLASS: 3
SOIL R₁: 0.20 MAX GAL/5F/DAY
ABSORPTIVE AREA REQ'D: 1680 SF

PROPOSED DESIGN:
TRENCH WIDTH: 3 FT
TRENCH LENGTH: 350 FT
TOTAL AREA: 1756 SF
NO. CHAMBERS: 70
EFFECTIVE R_A: 0.24 GAL/5F/DAY

PROPERTY OWNER:

LEROY NABORS
CR 101
PRUMELA TX, 76566

PROJECT NO: 20-001 DATE: 3/2/2020

PERMITTING AUTHORITY: CORRELL COUNTY

INSTALLER: C. GRIBBLE SITE EVAL: C. GRIBBLE

DESIGNER: BEN WILSON, PE# 128987

BT ENGINEERING

3671 OLD FORT GATES RD.
GATESVILLE, TEXAS 76528
PHONE: (254) 592-3176
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM REGISTRATION NO. 21259



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TANK FLOTATION CALCULATIONS

ARCHIMEDES PRINCIPLE. THE BUOYANT FORCE EXERTED ON A BODY IMMERSED IN A FLUID IS EQUAL TO THE WEIGHT OF THE FLUID THE BODY DISPLACES.

KNOWN VALUES:

7.48 GALLONS = 1 FT³
 62.4 LBS/FT³ = DENSITY OF WATER
 75 LBS/FT³ = DENSITY OF SOIL (ASSUMED)

TANK PROPERTIES:

HOOT SYSTEMS - 1500 GAL. 2 COMPARTMENT
 DIMENSIONS: LENGTH = 9.417'
 WIDTH = 6.187'
 HEIGHT = 5.75'
 TANK VOLUME: 333.93 FT³
 TANK WEIGHT: 12,500 LBS (ESTIMATED)

BUOYANCY CALCULATION:
 EQUIVALENT WATER DISPLACEMENT WEIGHT:
 333.93 X 62.4 = 17577.5 LBS

NET DISPLACEMENT WEIGHT:
 17,577.5 - 12,500 = 5,077.5 LBS
 TANK IS LIGHTER THAN THE AMOUNT OF WATER IT DISPLACES. THEREFORE
 THERE IS NET BUOYANT FORCE UP, EMPTY TANK WILL FLOAT

TANK DEPTH CALCULATIONS:

SOIL DEPTH = 1.5 FT
 SURFACE AREA = 9.417' X 8.167' = 58.1 FT²
 SOIL VOLUME ABOVE TANK = 58.1 X 1.5 = 87.2 FT³
 SOIL WEIGHT = 75 X 87.2 = 6540 LBS

BUOYANCY CALCULATION:
 6540 LBS (SOIL FORCE DOWN) - 5,077.5 LBS (NET BUOYANT FORCE UP) = 1462.5 LBS (NET FORCE DOWN)
 EMPTY TANK BURIED 1.5' DEEP WILL COUNTERACT FLOTATION.

CONCLUSION:
 THE EMPTY TANK WITH 1.5' BURY DEPTH WILL PROVIDE SUFFICIENT WEIGHT TO COUNTERACT FLOTATION.
 ADDITIONALLY, THE 1500 GAL IS A NON-PUMP TANK THAT WILL REMAIN FULL AT ALL TIMES UNDER NORMAL USAGE,
 GIVING THE SYSTEM A MUCH GREATER ADDITIONAL DOWN FORCE. NO FLOTATION WILL OCCUR UNDER NORMAL
 USAGE.

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PROPERTY OWNER:

LEROY NABORS
 CR 101
 PRUMELA TX, 76566

PROJECT NO: 20-001 DATE: 3/2/2020

PERMITTING AUTHORITY: CORVELL COUNTY

INSTALLER: C. GRIBBLE SITE EVAL: C. GRIBBLE

DESIGNER: BEN WILSON, PE# 128997

BT ENGINEERING

3671 OLD FORT GATES RD.
 GATESVILLE, TEXAS 76528
 PHONE: (254) 592-3176

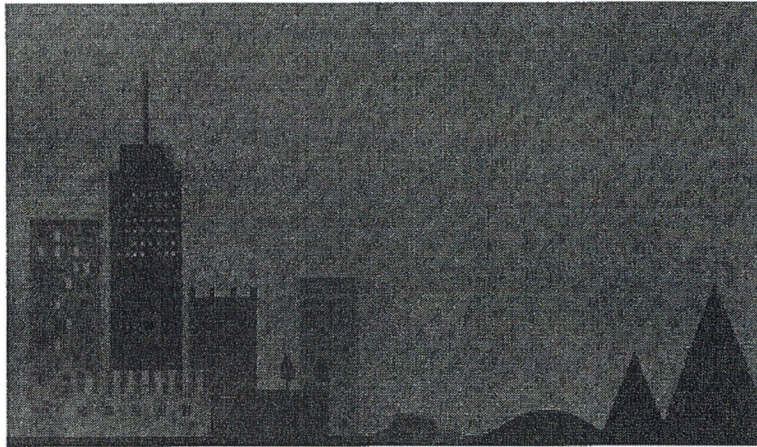
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Google Maps Co Rd 101



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Co Rd 101

Texas



Directions



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CORYELL COUNTY
ON-SITE SEWAGE FACILITY PROGRAM
INSTALLATION INVESTIGATION REPORT
STANDARD SYSTEM INSTALLATION
Page 1 of 2

PROPERTY OWNER	L. NABORS	PERMIT NUMBER	# 3991
REGION NUMBER	# 9	SITE EVALUATOR NAME & LIC. NO.	C. GRIBBE 34904
INVESTIGATOR	G. PITT	INSTALLER NAME & LIC. NO.	C. GRIBBE 34634
DATE	3-3-20		

PER INSTALLER - SIZED AS CLASS III SOIL ALL "NO" ANSWERS REQUIRE COMMENT

I. SITE AND SOIL CONDITIONS & SET BACK DISTANCES		Y	N
Site and Soil Conditions Consistent with Submitted Planning Materials	§285.30 & §285.31	✓	
Setback Distances Meet Minimum Standards	§285.30(b)(4), §285.31(d) & §285.91(10)	✓	
II. SEWER PIPE §285.32(a)(1-7)		Y	N
Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)	§285.32(a)(1)	✓	
Slope from the Sewer to the Tank at least 1/8 Inch Per Foot	§285.32(a)(3)	✓	
Two Way Sanitary-Type Cleanout Properly Installed (Add. C/O Every 50' &/or 90° bends)	§285.32(a)(5)	✓	

III. SEPTIC TANK §285.32(b)(1)(A) - (F) and 285.91(2)		Y	N
Septic tank(s) meet minimum requirements (tank volume; water tight seal inlet and outlet devices; baffles and series of tanks; inspection and cleanout ports; design and construction materials current ASTM C 1227 Standards; risers and installation of tanks)		✓	
Tank Volume Required	1750 gallons	Tank Volume Installed	1500 gallons
Material of tank installed	CONCRETE	Manufacturer of tank installed.	CENTEX PRE-CAST
Inlet Flowline Greater than 3" and "T" Provided on Inlet and Outlet	§285.32(b)(1)(B)	✓	
If Single Tank, are 2 Compartments Provided with Baffle	3 COMPARTMENT	§285.32(b)(1)(C)(i)	✓
Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped	§285.32(b)(1)(D)	✓	
Tank(s) Watertight	§285.32(b)(1)(E)	✓	
Tank(s) Clearly Marked	§285.32(b)(1)(E)(iv)	✓	
Outlet Liquid Penetration 25% to 50% Total Liquid depth at least 30"	§285.32 (b)(1)(A) & §285.32(b)(1)(C)(i)	✓	
Greater than 1/2 of Total Volume in Primary Tank or Compartment (• for Tank 3)	§285.32(b)(1)(C)(ii)	✓	
Minimum 12 inch drop from the bottom of the outlet pipe to the bottom of the disposal area	§285.32(b)(1)(F)	✓	

IV. DRAINFIELD CRITERIA FOR EFFLUENT DISPOSAL SYSTEM §285.33(b)	
Absorptive Drainline ☐ 3" PVC; ☐ 4" PVC; ☐ N/A	☐ 8" or ☐ 10" Gravelless Pipe ☐ N/A
☒ Leaching Chambers:	Manufacturer: ARC 36 ADS

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ON-SITE SEWAGE FACILITY PROGRAM
INSTALLATION INVESTIGATION REPORT
STANDARD SYSTEM INSTALLATION
Page 2 of 2**

PROPERTY OWNER		PERMIT NUMBER	
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DRAINFIELD (CONT'D)				
Area Required:			Area Installed:	
Standard §285.33(b)(1)(A)(vii)			Standard §285.33(b)(1)(A)(vii)	
Gravelless §285.33(c)(1)(C)			Gravelless §285.33(c)(1)(C)	
Leaching Chambers §285.33(c)(2)(A)(i) or (ii)	1575		Leaching Chambers §285.33(c)(2)(A)(i) or (ii)	1750
Excavation Width §285.33(b)(1)(A)(iv)	3'		Excavation Depth §285.33(b)(1)(A)(i)&(ii)	18" - 3'
Excavation Separation §285.33(b)(1)(A)(iii)	7'		Multiple Excavations §285.33(b)(1)(A)(iii)	YES (6)
Depth of Porous Media §285.33(b)(1)(D)	N/A		Type of Porous Media §285.33(b)(1)(B)(i-ii)	N/A
				Y N
Level to within 1 inch per 25 feet §285.33(b)(1)(A)(v) & §285.33(c)(1)(B)				✓
Chambers - Open End Plates w/Splash Plate, Inspection Port & Closed End Plates in Place (per manufacturers spec.). §285.33(b)(1)(D)				✓
Pipe and Gravel - Geotextile Fabric in Place §285.33(b)(1)(E)				N/A
Gravelless Pipe - Couplings, Endcaps, Off-Set Connectors, and Filter Wrap in Place §285.33(c)(1)(B)				N/A
Gravelless Pipe - Inspection Port in Place §285.33(c)(1)(B)				N/A

COMMENTS: SAFETY LIDS PRESENT ✓
CLASS 1b - SIZE AS A CLASS III PER INSTALLER

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