

Harnett County Department of Public Health

PERMIT # SFD2504-0014

Operation Permit

☒ New Installation ☒ Septic Tank ☒ Nitrification Line ☐ Repair ☐ Expansion

PROPERTY LOCATION: 253 knoll way

Name: (owner) Smith Douglas Homes

SUBDIVISION Briarwood Bluffs

LOT # 14

System Installer: A+R

Basement with plumbing: ☐ Garage ☒ Number of Bedrooms 3 (6 people)

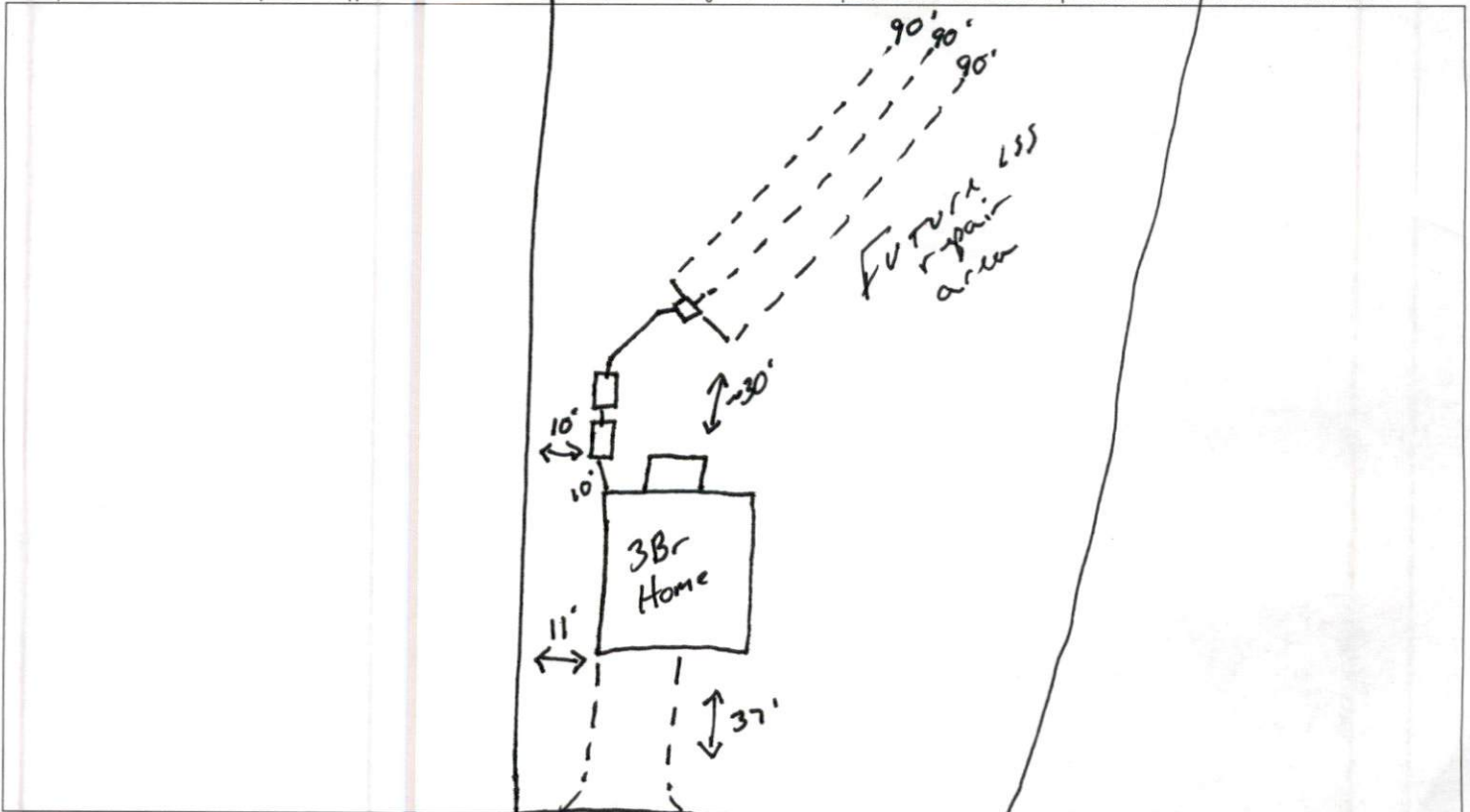
Type of Water Supply: ☐ Community ☒ Public ☐ Well Distance from well _____ feet

System Type: TYPE III B Types V and VI Systems expire in 5 years.

(In accordance with Table V a)

Owner must contact Health Department 6 months prior to expiration for permit renewal.

This system has been installed in compliance with applicable North Carolina General Statutes, Rules for Sewage Treatment and Disposal, and all conditions of the Improvement Permit and Construction Authorization.



PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with Rule .1961.

II. Monitoring: As required by Rule .1961.

III. Maintenance: As required by Rule .1961. Other: _____

Subsurface system operator required? Yes ☐ No ☒

If yes, see attached sheet for additional operation conditions, maintenance and reporting.

IV. Operation: _____

V. Other: _____

☐ Manifold ☒ D-Box ☒ Pump ☒ Alarm ☐ H2O Line ☐ PWR Line

Following are the specifications for the sewage disposal system on the above captioned property.

Type of system: ☐ Conventional ☒ Other 25% reduction I & Q4 Septic Tank: 1000 gallons Pump Tank: 1000 gallons

Subsurface No. of exact length width of depth of
Drainage Field ditches 3 of each ditch 90 feet ditches 3 feet ditches 30 inches

French Drain Required: _____ Linear feet

Authorized State Agent

Moh R. H.

Date 7-2-25

[illegible]

Initial
Repair
Serial 



RESIDENTIAL PRESSURE MANIFOLD DESIGN

Permit # Briarwood Lot 14

of BDR: 3 Daily Flow: 360 gal/day L.T.A.R.: 0.4000 gal/day/sq.ft

Septic Tank: 1000 gals **Pump Tank:** 1000 gals **Sq. Foot:** 810 **System Type:** Accepted

Number of Taps: 3 **Length of Trenches:** 270 **ft(See Tap Chart for Details)**

Depth of Trenches: 34 in Manifold Length: 36 in

Manifold Diameter: 4in sch 80pvc **Tap Configuration:** 6 in spacing 1 side(s) of manifold

Supply Line: length: 50 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 1.33 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2 ft **Elevation Head:** 7.40 ft

Total Head: 10.73 ft **Pump to Deliver:** 21.33 gals/min at 10.73 ft head

Dosing Volume: 123 gals,

Drawdown: 123 gals divided by $\frac{20}{\text{gals/in}}$ = $\frac{6.1}{\text{inches}}$

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required.

TAP CHART

Benchmark	100	is = 100.00	set at base at property corner
Pump tank elev.		99.5	100.50 Pump elev.

Design Head:	2
Manifold elev.	102.90

[illegible]

Total Feet =	270	gal/min =	21.33	<u>LTAR =</u>	0.4000
Feet Required =	225	Velocity =	2.04	(ltar + 5%)	0.4200

Total # of Panels (PPBPS)

% of Dose Vol.	70
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Dose Volume	123
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Dose Pump Time	5.76
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Drawdown in Inches	6.1
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Comments:

Des. Flow

Pump Run= 16.88

Tank Gal/IN	20
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Elev. Head	7.40
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<u>LTAR =</u>	0.4000
(ltar + 5%)	0.4200
(ltar w/25% red)	0.5333
(ltar + 5%)	0.5600

Hydraulic Profile

