

Harnett County Department of Public Health

PERMIT # SPD 2105-00522

Operation Permit

03/14/15

New Installation Septic Tank Nitrification Line Repair Expansion

PROPERTY LOCATION: 115 VILLAGE BEND DR. (NARMS CHURCH RD.)

Name: (owner) DAN ZYAN BUILDERS SUBDIVISION OLDFIELD VILLAGE LOT # 55

System Installer: CAN PLUMBING

Basement with plumbing: Garage Number of Bedrooms 4

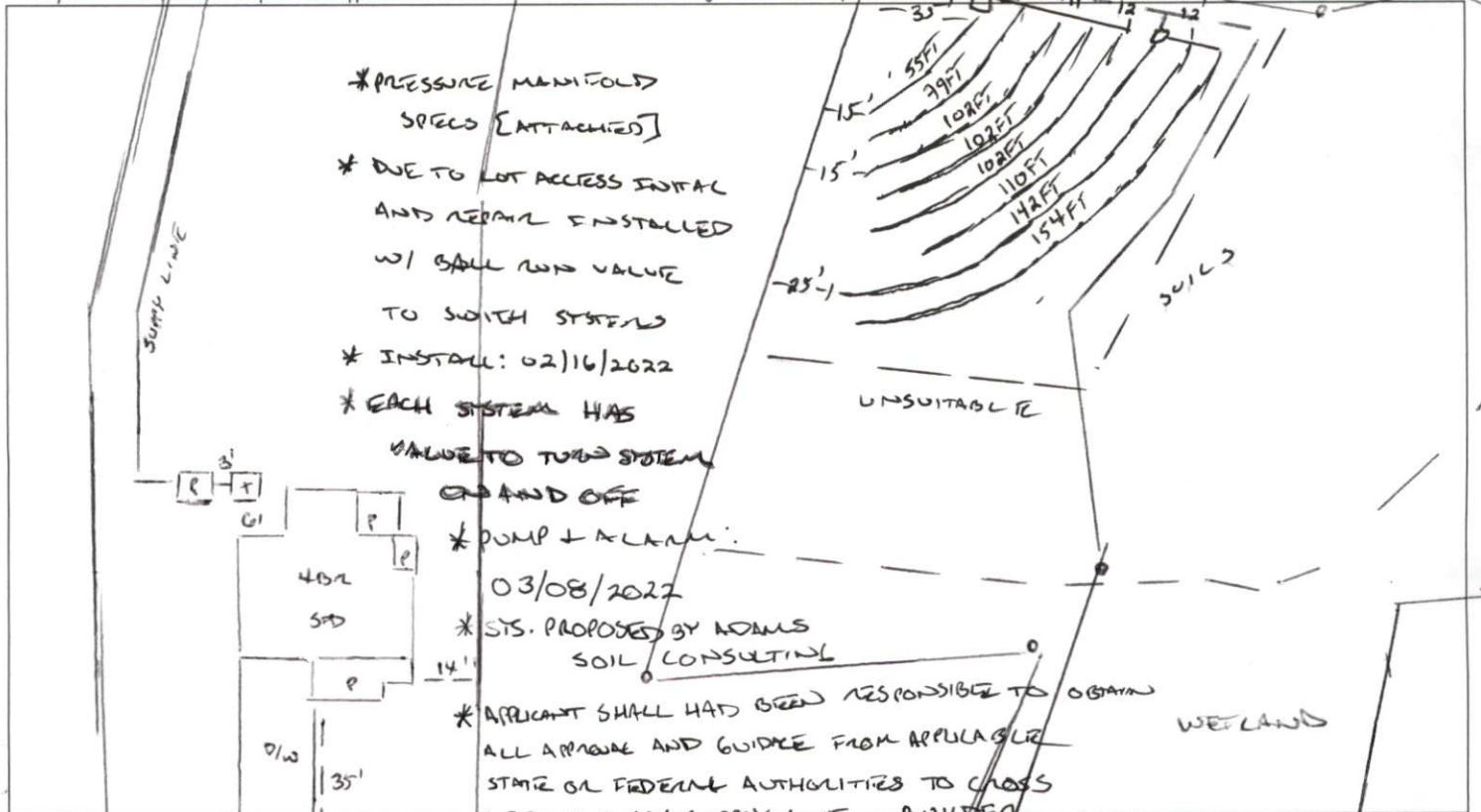
Type of Water Supply: Community Public Well Distance from well NA feet

System Type: 25% REDUCTION SYSTEM 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: HAD ALREADY PLACED PIPE THROUGH WETLAND PRIOR TO PERMITTING
Subsurface system operator required? Yes No
If yes, see attached sheet for additional operation conditions, maintenance and reporting.

IV. Operation: _____
V. Other: _____

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 R4 CHANGER III B Septic Tank: 1000 gallons Pump Tank: 1000 gallons
Subsurface No. of exact length 440 [INITIAL] width of depth of
Drainage Field ditches 8 of each ditch 406 feet ditches 3 feet ditches 20 inches
French Drain Required: _____ Linear feet [INITIAL]

Authorized State Agent [Signature] Date 03/08/2022

PRESSURE MANIFOLD DESIGN

Name: Dan Ryan Builders **P.I.N. #:** **D#:**
Address: Lot 55 **Subdiv:** Olde Mill Village **Lot#:** 1
of BDR: 4 **Daily Flow:** 450 gal/day **L.T.A.R.:** 0.30 gal/day/sq.ft
Septic Tank: 1000 gals **Pump Tank:** 1000 gals **Sq. Foot:** 1230 **Stone Depth:**
Number of Taps: 5 **Length of Trenches:** 410 ft(See Tap Chart for Details)
Depth of Trenches: 18" in **Manifold Length:** 48 in
Manifold Diameter: 4in sch 80pvc **Tap Configuration:** 6 in spacing **side(s) of manifold**
Supply Line: length: 350 ft **Diameter:** 2 in sch 40pvc
Friction Loss + Fitting Loss: 15.81 ft(supply line length + 70' for fittings in pump tank)
Design Head: 2 ft **Elevation Head:** 20.80 ft
Total Head: 38.61 ft **Pump to Deliver:** 41.26 gals/min at 38.61 ft head
Dosing Volume: 187 gals,
Drawdown: 187 gals divided by 19.65 gals/in = 9.5 inches

TAP CHART

Bench Mark	0	is = 100.00	set at EIP at corner Cabin Hill and Redgrass			Design Head:	2		
Pump tank elev.		16	84.00	Pump elev.	79.00	Manifold elev.	99.80		
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Blue	1.2	98.80	55	1/2in SCH 80	5.48	63.75	165	0.386
2	Orange	2.3	97.70	55	1/2in SCH 80	5.48	63.75	165	0.386
3	Yellow	3.5	96.50	100	3/4in SCH 80	10.1	117.50	300	0.392
4	Red	4.6	95.40	100	3/4in SCH 80	10.1	117.50	300	0.392
5	Pink	5.9	94.10	100	3/4in SCH 80	10.1	117.50	300	0.392
		total	feet =	410	gal/min =	41.26		LTAR =	0.30
% of Dose Vol.	70			Des. Flow	480			(Itar + 5%)	0.32
Dose Volume	187			Pump Run=	11.63			(Itar W/ INOV)	0.40
Dose Pump Time	4.52			Tank Gal/IN	19.65			(Itar + 5%)	0.42
Drawdown in Inches	9.5			Elev. Head	20.80				
Supply Line Length	350								
Comments:									

Hydraulic Profile

Manifold Elevation	99.80	350
Pump tank elev.	84.00	2
Pump elev.	79.00	0

