

Franklin County Health Department, 107 Industrial Drive Louisburg, NC 27549 Phone:

For	Office	Use	Only

*CDP File Number

353459 - 1

County ID Number:

1852-24-9791

Evaluated For:

NEW

PERMIT VALID UNTIL: 06/07/2026

Applicant: THREE SIX BUILDERS Address: PO BOX 113 City: ZEBULON State/Zip: NC 27597 Phone #:			PATTERSON WO	ODS LLC	
City: ZEBULON State/Zip: NC 27597		Property Owner: Address:	833 WAKE FORE	ST BUSINESS PA	ARK
State/Zip: NC 27597		City:	WAKE FOREST	i k	
		N. T. C.	NC. 27587		
		Phone #:	×.		
	—— <u> </u>				
	Property Location 8	& Site Information			$\overline{}$
Address/Road #: 104 BLUE FINCH CT	Subdivisio		Phase: NEW	Lot: 7	4
YOUNGSVILLE. NC 27596 Structure: SINGLE FAMILY	Direction	AT PATTERSON			
# of Bedrooms: 3	104 BLUE	FINCH CT			1
# of People: 6					
*Water Supply: N/A					
		-10: - XI			=
Initial System	System Spe	*			
*Site Classification: Provisionally Suitable		Minimum Trend	ch Depth:		ches
Design Flow: 360		Maximum Tren	ch Depth	20 In	ches
Soil Application Rate: 0.3000				· .	
*System Classification/Description:		Septic Tank:	0 -		allons
TYPE III G. OTHER NON-CONV. TRENCH SY	/STEMS	Pump Required	d (X) Yes	No May E	Be Required
*Proposed System:		Pump Tank:	-	1000 G	allons
50% REDUCTION					
Repair System Required: XYes	No No. bu	ıt has Available Spa	ce		
Repair System), 20	-	• 4	· ·	
Site Classification: Provisionally Suitable		Minimum Trench	n Denth:	\ Inc	hes
Soil Application Rate:	0.300	Maximum Trench	· ·		hes
*System Classification/Description:					
TYPE III G. OTHER NON-CONV. TRENCH SY	STEMS	Pump Required	: (X)Yes)No	e Required
Proposed System:		Pump Tank:		Ga	llons
0% REDUCTION	(A				

DocuSign Envelope ID: 694527D5-6B90-4887-8794-8A042FAE3FA6



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NORTH CHOOM	J Louisburg, N				
KORN CHO NA	Phone:		. M.	PERMIT VALID UN	TIL: 06/07/2026
	, ,,,,,,,			50 - 11 - 12 - 12 - 12 - 12 - 12 - 12 - 1	en Pump System Sheet
			(2 + 2	PATTERSON WO	OODSIIC
	REE SIX BUILDERS		Property Owner:		ST BUSINESS PARK
) BOX 113		Address:		31 BOSINESS I ARK
	BULON		City:	WAKE FOREST	
	27597		State/Zip:	NC. 27587	
Phone #:			Phone #:		
	•	Property Locatio	n & Site Information		
Address/Road #:	104 BLUE FINCH C	(1)			W Lot:74
	YOUNGSVILLE, NO	27596 <u>Directi</u>	ions: AT PATTERSON	<u> </u>	
Structure:	SINGLE FAMILY				
		104 BL0	UE FINCH CT		
of Bedrooms:	3				7
# of People:	6				
*Water Supply:	PUBLIC				
- Tracer Supply.					
			Specifications	* a	*
*Site Classification	on: <u>Provisionally</u>	Suitable	Minimu	m Trench Depth:	Inches
Design Flow:	360		Maximi	ım Trench Depth:	20 Inches
Soil Application F	Rate: <u>0.3000</u>		Maxime	Tellon Dopan.	
*System Classific	cation/Description:		Min	imum Soil Cover:	Inches
TYPE III G. OTH	ER NON-CONV. TRE	NCH SYSTEMS	May	imum Soil Cover:	Inches
*Proposed Syste	·m·			A2	
50% REDUCTIO			*Distribution	on Type:	PRESSURE MANIFOLD
				Septic Tank: _	1,000 Gallons
Nitrification Field	d:	Sq. ft.	Pump Required:	XYes ONo	May Be Required
No. Drain Lines:	5	Inches O.C.	r ump r oquirou.	•	
Total Trench Len	ngth:206	— ft. Feet O.C.		Pump Tank:	1,000 Gallons
Trench Spacing:		\simeq		Grease Trap:	Gallons
		OInches		Croude rrup.	
Trench Width:		OFeet	Septic Tank Inst		
Aggregate Depth	n: inc	hes	Grade Level Re	quirea.	0" 0" 0

Total Time : (HH:MM)

O Import Drawing

O Hand Drawing



File # 353459 PIN# 1852-24-9791

Property Address: 404 Blue Find Ct (Lot 74)

Applicant or Owner Name: Three Six Builders

Environmental Health Septic/Well Permit Diagram Building permits cannot be issued nor should construction begin without Construction Authorization issuance. Septic Improvement Permit Septic Construction Authorization (CA) CA Reissue** As Built Well Construction Authorization Additional Diagram/Specifications Attached Diagram Date**: 6-7-21 EHS: **Any previously dated CA diagram is revoked and/or invalid. Confirm this is the valid diagram for the site before beginning any construction. Installation/grouting inspections may be scheduled the day before, or, the day of installation until 9am by contacting the Environmental Health office at 919 496 8100. A revisit fee may apply if installation is not ready for inspection at the time requested. Septic Operations Permits will be issued after installation is approved, all permits conditions are met, and any outstanding fees are paid. Well Certificate of Completion will be issued after well head approval, all permit conditions are met, and any outstanding fees are paid. Septic Tank 1000 Pump Tank 1000 Drainfield 3 × 206 Type System Pto Panel Black
Max Trench Depth 2011 Septic Contractor Septic/Pump tank dates Well Grout date: Well Contractor A See attached layout designed by Agri-waste Technology Inch X Install Horizontal panel block with pressure manifold distribution X

BEIW LBP



Agri-Waste Technology, Inc. 501 N. Salem Street, Suite 203 Apex, North Carolina 27502 919-859-0669 www.agriwaste.com

Project Manager

Jeff Vaughn, LSS

(919)349-5218

Designer:

Kathy Morris, REHS

(919)819-3033

kmorris@agriwaste.com

New construction. Horizontal panel block with pressure manifold distribution

Date: 5/25/2021

County: Franklin

Contact: Leslie Privette Subdiv: Patterson Woods Lot#: 74	distribution					County	: Franklin		
Property address: 104 Blue Finch Court Subdiv: Patterson Woods Lot#: 74 Patterson Patterson Woods Lot#: Patterson Woods Lot#: Patterson Pat	Name:	Three Six	<u> Builders</u>		P.I.N. #:		701000000000000000000000000000000000000		
Leslie Privette leslie@threesixbuilders.com		1			Property address:	104 Blue		Orystai L	11113
	Contact:	Leslie Pri	vette					74	
LTAR 0.3 gal/sq.ft/day SEPTIC TANK 1000 gallons, min. NEW BEDROOMS 3 With filter PUMP TANK 1000 gallons, min. NEW With filter PUMP TANK 1000 gallons, min. NEW REPAIR horizontal panel block 20.16 gal/in DIMENSIONS TRENCHES SQ. FT 1200 conventional LINEAR FT 200 horizontal panel block, 50% 206 (actual) TAP SIZE VARIES WITH TRENCH LENGTH. STONE DEPTH n/a inches SEE TAP CHART. STONE SIZE n/a or larger MANIFOLD & SUPPLY PUMP CRITERIA DIAMETER 4 inches Sch. 80 ELEVATION HEAD 17.80 ft LENGTH 48 inches (minimum) DESIGN HEAD 2.00 ft # OF TAPS 5 FRICTION & FITTINGS LOSS 5.91 ft TOTAL 25.71 ft FLOW RATE 35.28 gpm SUPPLY LINE 171 feet DOSING VOLUME 346 gallons DIAMETER 2 inches 2.067 DRAWDOWN 9.0 inches		Contract Con		rs.com				1 1 250	
# BEDROOMS 3 BASEMENT no	DESIGN PARAM	METERS			TANKAGE	LOCKABL	E RISERS RE	COMMEN	DED
BASEMENT No PUMP TANK 1000 gallons, min. NEW	LTAR	0.3	gal/sq.ft/day	· Ann	SEPTIC TANK	1000	gallons, min.	NEW	-
Norizontal panel block 20.16 gal/in	# BEDROOMS	3			with filter				
DIMENSIONS	BASEMENT	no			PUMP TANK	1000	gallons, min.	NEW	
SQ. FT 1200	REPAIR	horizontal	panel block			20.16	gal/in		
LINEAR FT 200 horizontal panel block, 50% 206 (actual) TRENCH FILL horizontal panel block TRENCH FILL horizontal panel block STONE DEPTH n/a inches STONE SIZE n/a or larger	DIMENSIONS				TRENCHES				
TRENCH FILL Horizontal panel block STONE DEPTH In/a inches STONE SIZE In/a or larger	SQ. FT	1200	conventional		WIDTH	36	inches		
STONE DEPTH n/a inches stone Size n/a or larger	LINEAR FT	200	horizontal p	anel block, 50%	DEPTH	20	inches		
STONE SIZE n/a or larger	- 1	206	(actual)		TRENCH FILL	horizontal	panel block		
MANIFOLD & SUPPLY	TAP SIZE VARI	ES WITH T	RENCH LEN	GTH.	STONE DEPTH	n/a	inches		*
DIAMETER 4 inches Sch. 80 ELEVATION HEAD 17.80 ft LENGTH 48 inches (minimum) DESIGN HEAD 2.00 ft # OF TAPS 5 FRICTION & FITTINGS LOSS 5.91 ft TOTAL 25.71 ft FLOW RATE 35.28 gpm DOSING VOLUME 346 gallons DIAMETER 2 inches	SEE TAP CHAR	RT.			STONE SIZE	n/a	or larger		
LENGTH 48 inches (minimum) DESIGN HEAD 2.00 ft # OF TAPS 5 FRICTION & FITTINGS LOSS 5.91 ft TOTAL 25.71 ft FLOW RATE 35.28 gpm DOSING VOLUME 346 gallons DIAMETER 2 inches DRAWDOWN 9.0 inches	MANIFOLD & S	UPPLY			PUMP CRITERIA				
# OF TAPS 5 FRICTION & FITTINGS LOSS 5.91 ft TOTAL 25.71 ft 35.28 gpm SUPPLY LINE 171 feet DOSING VOLUME 346 gallons DIAMETER 2 inches 2.067 DRAWDOWN 9.0 inches	DIAMETER	4	inches	Sch. 80	ELEVATION HEAD		17.80	ft	
TOTAL 25.71 ft SUPPLY LINE 171 feet DOSING VOLUME 346 gallons DIAMETER 2 inches 2.067 DRAWDOWN 9.0 inches	LENGTH	48	inches	(minimum)	DESIGN HEAD		- 2.00	ft	
SUPPLY LINE 171 feet DOSING VOLUME 346 gallons DRAWDOWN 9.0 inches	# OF TAPS	5			FRICTION & FITTING	SS LOSS	5.91	ft	
SUPPLY LINE 171 feet DOSING VOLUME 346 gallons DIAMETER 2 inches 2.067 DRAWDOWN 9.0 inches	1004				TOTAL	L	25.71	ft	1
SUPPLY LINE 171 feet DOSING VOLUME 346 gallons DIAMETER 2 inches 2.067 DRAWDOWN 9.0 inches					FLOW RATE		35.28	gpm	
DIAMETER 2 inches 2.067 DRAWDOWN 9.0 inches	SUPPLY LINE	171	feet		DOSING VOLUME		346		
	DIAMETER	2	inches	2.067					

PUMP AND CONTROLS

PUMP Zoeller N140

PANEL: Rhombus 1121W914H 8AC 10E 15A 17A

1 phase,115 volts, 12.0 amps with event counter, elapsed time meter, NEMA 4X box,

separate alarm circuit

other equipment that meets or exceeds the specifications may be substituted. Contact designer if questions.

The plans & specs for this Onsite Sewage Treatment & Disposal System have been prepared according to criteria in North Carolina's rules and regulations covering onsite systems, to additional county standards (if applicable), and to generally-accepted design and engineering principles. LTAR's, trench dimensions, and wasteloads are determined or confirmed by the county Health Department (or other soil science professionals) and are included as conditions of the permit. AWT accepts no responsibility for changes in these plans & specs unless we specifically authorize such changes in advance. If changes in specifications or locations of components are needed, please contact us for assistance in making such alterations before the component is installed.



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permit# to be issued 104 Blue Finch Court

Design Head: Pot TAP CHART - INITIAL

Patterson Woods 74

Bench Mark		IS 115.0	set at	eip, southe	eip, southernmost property corner	erty corner		Design Head:	2.00	
				pesn				1		
line	color	elevation	elevation available	(rounded)	# panels	tap size	flow/tap	gal/day	trench area	LINE LTAR
-	white	112.05	32	30	7	1/2" 80	5.48	55.92	89.5	0.625
2	pink	110.64	44	30	. 7	1/2" 80	5.48	55.92	89.5	0.625
3	purple	109.53	53	43	10	1/2" 40	7.11	72.55	128.5	0.565
4	yellow	108.33	62	09	14	3/4" 80	10.10	103.06	180.5	0.571
2	white	107.00	51	43	10	1/2" 40	7.11	72.55	128.5	0.565
		total	feet=	206	48	gal/min =	35.28		LTAR =	0.300
						antisiphon	0.00		Itar + 5%=	0.315
LEVATIONS: pump tank	pump tank	98.50	surface				35.28	GPM	panel block Itar	0.600
		98.00	top of discha	top of discharge piping in PT	T				(ltar + 5%)	0.630

(such as highest point on supply line, if between pump tank and field)

see PT diagram

94.75 112.55

go dund manifold other

pressure head in the manifold A fitting for setting/adjusting is required, other than the manifold cleanout gal/inch min/day pdb feet 20.16 10.20 **DESIGN FLOW** PUMP RUN TIME PUMP TANK GAL/IN **ELEVATION HEAD** PUMPING UP HILL? min/dose* gal gal 7.20 346 9.80 9.00 171 3.37 SUPPLY LINE VELOCITY SUPPLY LINE LENGTH DOSE PER PANEL DOSE PUMP TIME DOSE VOLUME DRAWDOWN

from pump 1/2"40 1/2"40 1/2"40 1/2" 40 1/2"40

Schematic is not to scale. Place flow dividers and/or tees OUTSIDE the manifold vault.



Health Department 107 Industrial Drive, Suite C Louisburg, NC 27549

Phone: 919-496-2533 Fax: 919-496-8127

www.franklincountync.us

FRANKLIN COUNTY ENVIRONMENTAL HEALTH SEPTIC SYSTEM PUMP REQUIREMENTS

PUMP SYSTEM FEE

An additional fee of fifty dollars (\$50.00) is assessed when a pump and related components are required for a new septic system. This fee must be paid prior to the Operations Permit being issued. Franklin County Environmental Health request the fee is paid before beginning the septic installation to make the final inspection go smoothly. The septic permit will not be signed off and a CO cannot be obtained until this fee is paid. This fee may be paid in person or by mail at:

Franklin County Health Department Environmental Health Section 107 Industrial Dr, Suite C Louisburg NC 27549

When making payment, please provide the permit number and the applicant name to ensure the payment is applied to the correct permit.

PUMP TO GRAVITY DISTRIBUTION

Unless otherwise noted on your septic permit or related attachments, the minimum type distribution method for your septic system is by means of a distribution box (D-box). This is achieved by pumping the wastewater to a D-box and allowing gravity to naturally disperse the wastewater equally to each drain line. This type distribution may be used for up to four (4) drain line laterals. The D-box should be watertight. The supply line is to be terminated in the D-box with a 90 degree elbow directed downwards to prevent a "swirling" action of the wastewater. The D-box location should be marked on-site to make it easily identifiable and prevent damage.



REQUIREMENTS FOR PUMP SYSTEMS

(Pump to conventional, pressure manifold, or LPP)

The following requirements must be met, in addition to the requirements on the permit itself:

Tanks and Risers-

- -all tanks shall be constructed according to plans which have been approved by the Division of Environmental Health
- -pump tanks shall have a riser which extends to at least 6" above the finished grade (riser is recommended on septic tank)
- -pump tanks should be of "one piece" construction; if not, it shall be tested for water tightness by the approved method (if a soil wetness condition exist within 5' of the tank top) -risers must be properly sealed to the top of the tank
- -pipes shall be properly sealed into the tank
- -pipes and conduit must exit riser through "knock-outs" provided
- -vent shall be installed on pump tank if over 30' from facility

Supply Line-

- -supply line shall be Schedule 40 PVC or stronger
- -supply line shall have a check-valve, gate valve, and a threaded union(in order to allow easy removal of pump)-corrosion resistant rope or chain shall also be connected to pump
- -supply line into box shall be elbowed with a 90 and extended down to within 2" of the bottom of the distribution box
- -supply line shall be properly sealed at pump tank and box

- -all connections, pump controllers, and alarm components shall be enclosed in a NEMA 4X (watertight) enclosure
- -enclosure shall be securely mounted on a treated 4x4 post, adjacent to the pump tank, and at least 12" above grade
- -wires from pumps and control floats shall be conveyed from the riser to the control panel through sealed electrical conduit(shall be sealed to be watertight and gastight)
- -original plugs shall be used, with no splices in the wire cables
- -control floats shall be sealed mercury type
- -control floats shall be suspended from a PVC arm or "Christmas Tree" (not from the supply line) for unrestricted movement

Alarm System-

- -power to high-water alarm shall be on a separate circuit from power to the pump
- -alarm shall be audible and visible to system user
- -alarm system shall be NEMA 4X or equivalent if mounted outside
- -NEMA 4X junction box, containing a means of disconnection for the alarm float, shall be provided adjacent to the pump tank, if the alarm panel is located inside the facility
- ****electrical service or a generator must be available for final inspection in order to check pump and alarm system