

**HARNETT COUNTY ENVIROMENTAL HEALTH**

File/Permit #: SFD2509-0010

CDP #: _____

IMPROVEMENT PERMIT (IP)☒ New☐ Expansion☐ Repair☐ System Relocation☐ Change of UseOwner: HHHUNT HOMES RALEIGH-DURHAM LLCApplicant: HHHUNT HOMES RALEIGH-DURHAM LLCProperty Location: 379 MAGNOLIA ACRES LN FUQUAY-VARINA, NC 27526PIN/Lot Identifier: 0633-14-0949.000Subdivision: MAGNOLIA ACRESLot #: 55 Block: _____ Section: _____Facility Type: SFD34.5' x 66' Number of bedrooms: 4 Number of Occupants: 8 Other: _____Design Daily Flow: 480 GPD LTAR (Initial): .3 gpd/ft² LTAR (Repair): .3 gpd/ft²Wastewater System Type: 50% Reduction System T&J (Initial)Pump Required: ☒ Yes ☐ No ☐ May be required Usable Depth to Limiting Condition (Initial): 44"Wastewater System Type 50% Reduction System T&J (Repair)Pump Required: ☒ Yes ☐ No ☐ May be required Usable Depth to Limiting Condition (Repair): 48"Effluent Standard: ☒ DSE ☐ HSE ☐ Other: _____ Type of Water Supply: ☐ Private well ☒ Municipal Supply ☐ Other: _____**Permit conditions:**

No Foundation or Gutter Drains to be Directed Towards Septic System.
No Cutting or Grading of Soil in Septic or Septic Repair Area.
Follow Soil Consultants Septic Design.

The issuance of this permit in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This permit is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of 15A NCAC 18E and to the conditions of this permit.

Authorized Agent's Printed Name: Ren LevoczDate: 09/30/2025Authorized Agent's Signature: Expiration Date: 09/30/2030**CONSTRUCTION AUTHORIZATION (CA)**☒ New☐ Expansion☐ Repair☐ System Relocation☐ Change of UseOwner: HHHUNT HOMES RALEIGH-DURHAM LLCApplicant: HHHUNT HOMES RALEIGH-DURHAM LLCProperty Location: 379 MAGNOLIA ACRES LN FUQUAY-VARINA, NC 27526PIN/Lot Identifier: 0633-14-0949.000Subdivision: MAGNOLIA ACRESLot #: 55 Block: _____ Section: _____Facility Type: SFD34.5' x 66' Number of bedrooms: 4 Number of Occupants: 8 Other: _____Design Daily Flow: 480 GPD LTAR: _____ gpd/ft²Effluent Standard: ☐ DSE ☐ HSE ☐ Other: _____ Type of Water Supply: ☐ Private well ☐ Municipal Supply ☐ Other: _____**Installation Requirements/Conditions**Wastewater System Type: 50% Reduction System T&J Pump Required: ☐ Yes ☒ No ☐ May be requiredSeptic Tank Size: 1,000 gallons Total Trench Length: 268' feet Trench Spacing: 9' feet on centerPump Tank Size: 1,000 gallons Maximum Trench Depth: 20"-28" inches Soil Cover: 6" inchesTrench Width: 36" inches Distribution Method: ☐ Serial ☐ D-Box or Parallel ☒ Pressure Manifold ☐ Other: _____Artificial Drainage Required: Yes ☐ No ☒ If yes, please specify details: _____Management Entity Required: ☐ Yes ☒ No Minimum O&M Requirements: _____**Permit conditions:**

No Foundation or Gutter Drains to be Directed Towards Septic System.
No Cutting or Grading of Soil in Septic or Septic Repair Area.
Follow Soil Consultants Septic Design.

The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached site sketch. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.

Authorized Agent's Printed Name: Ren LevoczDate: 09/30/25Authorized Agent's Signature: Expiration Date: 09/30/2030

Owner/Legal Representative Signature: _____ Date: _____

***See attached site sketch**

Harnett County Environmental Health

SITE SKETCH

PIN 0633-14-0949.000

Permit Number SFD2509-0010

HHHUNT HOMES RALEIGH-DURHAM LLC

MAGNOLIA ACRES Lot 55

Applicant's Name

Ren Levocz

Subdivision/Section/Lot Number

09/30/2025

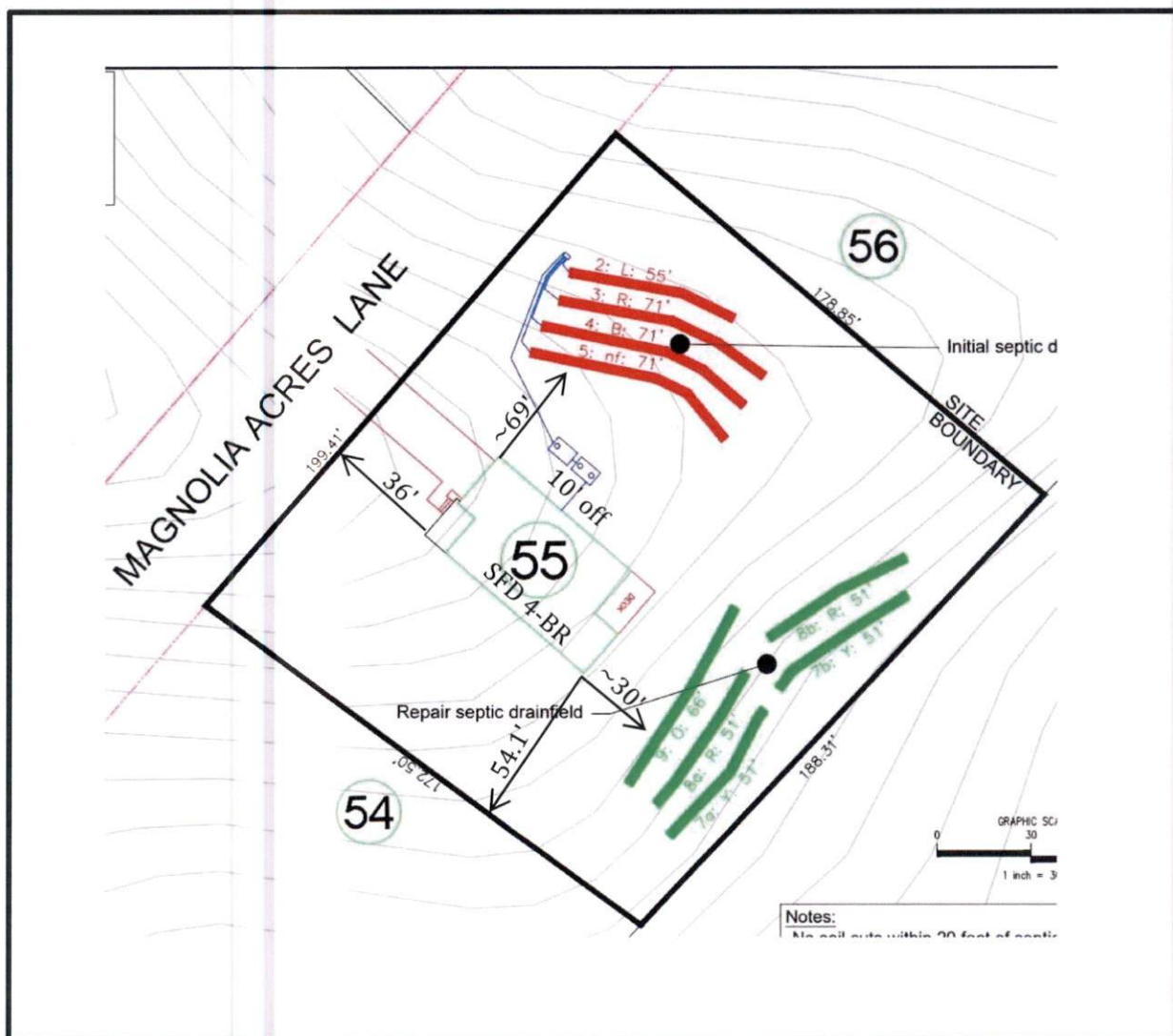
Authorized State Agent

Date

System components represent approximate contours only. The contractor must flag the system prior to beginning the installation to ensure that the proper grade is maintained.

Scale = NTS

***Follow Soil Consultants Design**



Initial System

PRESSURE MANIFOLD DESIGN

Name: HHHunt Homes P.I.N. #: 0633-14-0949 D #: N/A

Address: 379 Magnolia Acres Lane Subdiv: Magnolia Acres Lot#: 55

of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.300 gal/day/sq.ft

Septic Tank: 1000 gals (min.) Pump Tank: 1000 gals (min.) Sq. Foot: 804 Stone Depth: N/A
(Panel Block)

Number of Taps: 4 Length of Trenches: Varies ft(See Tap Chart for Details)

Depth of Trenches: see Harnett County permit Manifold Length: 42 in

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

Supply Line: length: 70 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 2.37 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2.0 ft Elevation Head: 11.80 ft

Vent Hole Size: 3/16 in Orifice Coefficient of Discharge: 0.60

Orifice Coefficient of Contraction: 0.62 Orifice Coefficient of Velocity: 0.97

Maximum Head Supplied by Selected Pump(s) at Total Design Flowrate: 22 ft

Orifice / Vent Hole Flowrate: 1.94 gpm Head Loss at Orifice / Vent Hole: 1.40 ft

Total Head: 17.57 ft Pump to Deliver: 28.75 gals/min at 17.57 ft head

Dosing Volume: 252.59 gals.

Drawdown: 252.59 gals divided by 18 gals/in = 14.03 inches

SJE Rhombus Installer Friendly Series simplex control panel, or equivalent, required
A septic tank filter, or equal is required.
Possible pumps: Hydromatic: Goulds: Myers:
Zoeller: 137 Other:

TAP CHART

Bench Mark	1.49	is = 100.00	set at	top concrete pad 55/56 corner			Design Head:	2.0	
Pump tank elev.		14	87.49	Pump elev.	82.49		Manifold elev.	94.29	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
2	Lime	8.20	93.29	55	1/2in SCH 80	5.48	98.11	165	0.5946
3	Red	9.62	91.87	71	1/2in SCH 40	7.11	127.30	213	0.5976
4	Blue	10.53	90.96	71	1/2in SCH 40	7.11	127.30	213	0.5976
5	nf	11.70	89.79	71	1/2in SCH 40	7.11	127.30	213	0.5976
		total	feet =	268	gal/min =	26.8	LTAR =	0.3000	
% of Pipe Vol.		145		Des. Flow	480.00		(ltar + 5%)	0.3150	
Dose Volume		252.59		Pump Run=	17.90		(ltar W/ PB)	0.6000	
Dose Pump Time		9.42		Tank Gal/IN	18		(ltar + 5%)	0.6300	
Drawdown in Inches		14.03		Elev. Head	11.80				
Supply Line Length		70							
Comments:									

Repair System

PRESSURE MANIFOLD DESIGN

Name: HHHunt Homes P.I.N. #: 0633-14-0949 D #: N/A

Address: 379 Magnolia Acres Lane Subdiv: Magnolia Acres Lot#: 55

of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.300 gal/day/sq.ft

Septic Tank: 1000 gals (min.) Pump Tank: 1000 gals (min.) Sq. Foot: 810 Stone Depth: N/A
(Panel Block)

Number of Taps: 5 Length of Trenches: Varies ft(See Tap Chart for Details)

Depth of Trenches: see Harnett County permit Manifold Length: 48 in

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

Supply Line: length: 125 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 3.83 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2.0 ft Elevation Head: 10.88 ft

Vent Hole Size: 3/16 in Orifice Coefficient of Discharge: 0.60

Orifice Coefficient of Contraction: 0.62 Orifice Coefficient of Velocity: 0.97

Maximum Head Supplied by Selected Pump(s) at Total Design Flowrate: 21 ft

Orifice / Vent Hole Flowrate: 1.90 gpm Head Loss at Orifice / Vent Hole: 1.33 ft

Total Head: 18.04 ft Pump to Deliver: 30.93 gals/min at 18.04 ft head

Dosing Volume: 254.48 gals.

Drawdown: 254.48 gals divided by 18 gals/in = 14.14 inches

SJE Rhombus Installer Friendly Series simplex control panel, or equivalent, required
A septic tank filter, or equal is required.
Possible pumps: Hydromatic: Goulds: Myers:
Zoeller: 137 Other:

TAP CHART

Bench Mark	1.49	is = 100.00	set at	top concrete pad 55/56 corner			Design Head:		2.0
Pump tank elev.		11	90.49	Pump elev.	85.49	Manifold elev.		96.37	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
7a	Yellow	6.12	95.37	51	1/2in SCH 80	5.48	90.61	153	0.5922
7b	Yellow	6.12	95.37	51	1/2in SCH 80	5.48	90.61	153	0.5922
8a	Red	7.87	93.62	51	1/2in SCH 80	5.48	90.61	153	0.5922
8b	Red	7.87	93.62	51	1/2in SCH 80	5.48	90.61	153	0.5922
9	Orange	9.60	91.89	66	1/2in SCH 40	7.11	117.56	198	0.5937
		total	feet =	270	gal/min =	29.0	LTAR =		0.3000
% of Pipe Vol.		145		Des. Flow	480.00			(ltar + 5%)	0.3150
Dose Volume		254.48		Pump Run=	16.53			(ltar W/ PB)	0.6000
Dose Pump Time		8.77		Tank Gal/IN	18			(ltar + 5%)	0.6300
Drawdown in Inches		14.14		Elev. Head	10.88				
Supply Line Length		125							
Comments:									

4-Bedroom
 LTAR: 0.3 gpd/ft²
 Initial: Pump-to-PPBPS utilizing
 lines 2-5 (268')
 Repair: Pump-to-PPBPS utilizing
 lines 7-9 (270')



Notes:
 -No soil cuts within 20 feet of septic trenches.
 -No swales within 30 feet of septic trenches
 unless approved, in writing, by Engineer.

		MITCHELL ENVIRONMENTAL, PA C-2911	
1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526		REVISION NO. Original Submitted Revision 1 Revision 2 Revision 3 Master Set	
PREPARED FOR : H&H Home 1 Jenson Main Street Cary, NC 27511		DATE August 29, 2025	
DATE : August 29, 2025 DESIGNER CONTACT: ADAM AYCOCK, EIT DRAWN BY: ADAM AYCOCK, EIT			