



HARNETT COUNTY ENVIROMENTAL HEALTH

File/Permit #: SFD2508-0091

CDP #:

IMPROVEMENT PERMIT (IP)

☒ New ☐ Expansion ☐ Repair ☐ System Relocation ☐ Change of Use

Owner: HHHUNT HOMES RALEIGH-DURHAM LLC Applicant: HHHUNT HOMES RALEIGH-DURHAM LLC

Property Location: 259 WHITE MAGNOLIA LN FUQUAY-VARINA, NC 27526 PIN/Lot Identifier: 0633-03-9414.000

Subdivision: MAGNOLIA ACRES Lot #: 32 Block: Section:

Facility Type: SFD 50.5' x 51.5 Number of bedrooms: 4 Number of Occupants: 8 Other:

Design Daily Flow: 480 GPD LTAR (Initial): .3 gpd/ft² LTAR (Repair): .3 gpd/ft²

Wastewater System Type: 25% Reduction System (Initial)

Pump Required: ☒ Yes ☐ No ☐ May be required Usable Depth to Limiting Condition (Initial): 48"

Wastewater System Type: 50% Reduction System (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.

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 Levocz Date: 10/27/2025

Authorized Agent's Signature: Expiration Date: 10/27/2030

CONSTRUCTION AUTHORIZATION (CA)

☒ New ☐ Expansion ☐ Repair ☐ System Relocation ☐ Change of Use

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Facility Type: SFD 50.5' x 51.5 Number of bedrooms: 4 Number of Occupants: 8 Other:

Design Daily Flow: 480 GPD LTAR: .3 gpd/ft²

Effluent Standard: ☒ DSE ☐ HSE ☐ Other: Type of Water Supply: ☐ Private well ☒ Municipal Supply ☐ Other:

Installation Requirements/Conditions

Wastewater System Type: 25% Reduction System Pump Required: ☐ Yes ☒ No ☐ May be required

Septic Tank Size: 1,000 gallons Total Trench Length: 420 feet Trench Spacing: 9' feet on center

Pump Tank Size: 1,000 gallons Maximum Trench Depth: 18"-28" inches Soil Cover: 6" inches

Trench Width: 36" inches Distribution Method: ☐ Serial ☐ D-Box or Parallel ☒ Pressure Manifold ☐ Other: LSS Layout

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.

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 Levocz Date: 10/27/25

Authorized Agent's Signature: Expiration Date: 10/27/2030

Owner/Legal Representative Signature: Date:

***See attached site sketch**

Harnett County Environmental Health

SITE SKETCH

PIN 0633-03-9414.000

Permit Number SFD2508-0091

HHHUNT HOMES RALEIGH-DURHAM LLC

MAGNOLIA ACRES Lot 32

Applicant's Name

Ren Levocz

Subdivision/Section/Lot Number

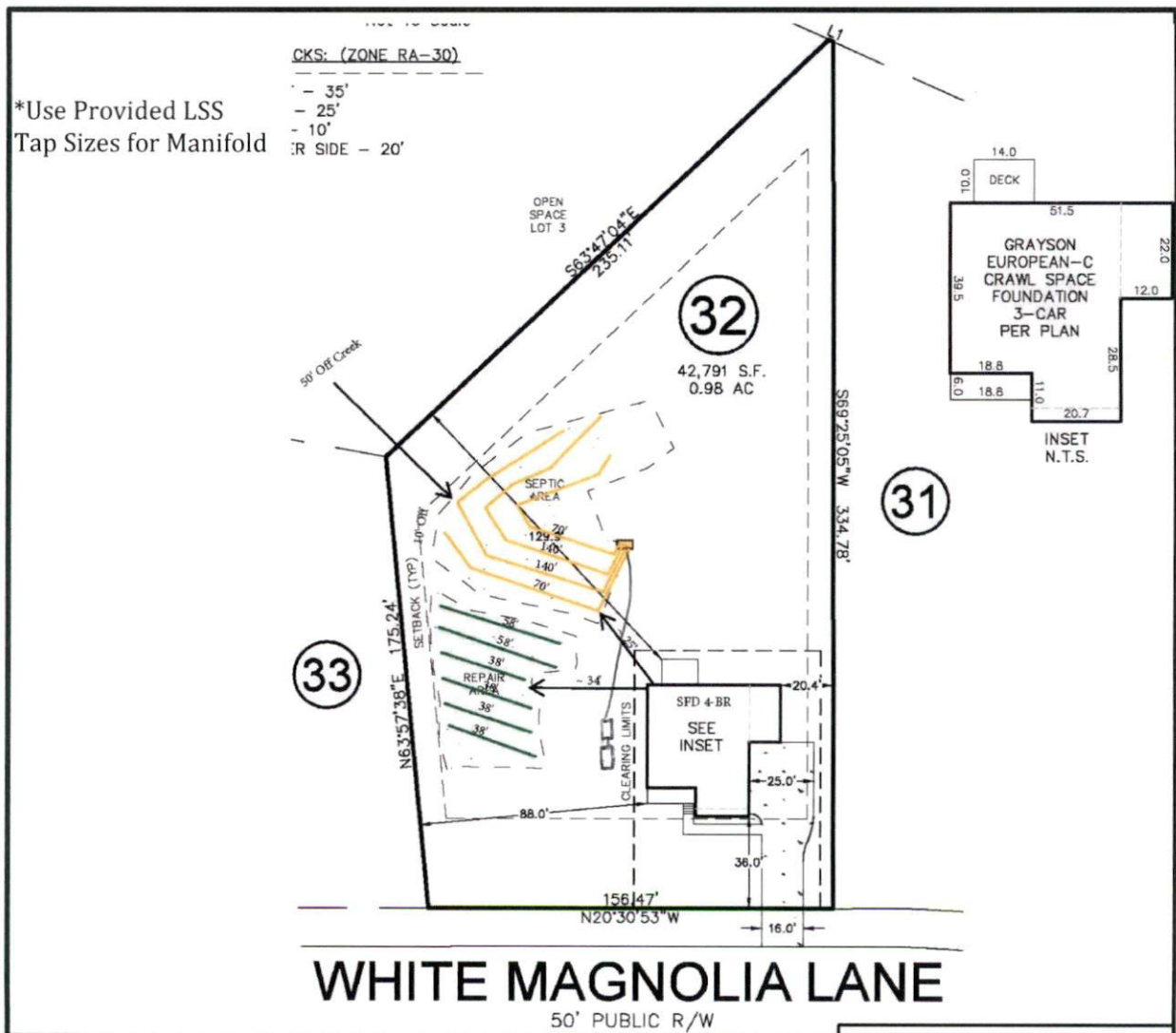
10/27/2025

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



PRESSURE MANIFOLD DESIGN

Name: HHHunt Homes P.I.N. #: 0633-03-9414 D #: N/A
 Address: 259 White Magnolia Lane Subdiv: Magnolia Acres Lot#: 32
 # 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: 1260 Stone Depth: N/A
 (EZ Flow)
 Number of Taps: 3 Length of Trenches: 140 ft(See Tap Chart for Details)
 Depth of Trenches: see Harnett County permit Manifold Length: 36 in
 Manifold Diameter: 4 in sch 80pvc (minimum) Tap Configuration: 6 in spacing 1 side(s) of manifold
 Supply Line: length: 80 ft Diameter: 2 in sch 40pvc
 Friction Loss + Fitting Loss: 1.67 ft(supply line length + 70' for fittings in pump tank)
 Design Head: 2.0 ft Elevation Head: 12.75 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: 23 ft
 Orifice / Vent Hole Flowrate: 1.99 gpm Head Loss at Orifice / Vent Hole: 1.46 ft
 Total Head: 17.88 ft Pump to Deliver: 23.32 gals/min at 17.88 ft head
 Dosing Volume: 180.18 gals.
 Drawdown: 180.18 gals divided by 18 gals/in = 10.01 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	11.53	is = 100.00	set at	32/33 rear eir			Design Head:	2.0	
Pump tank elev.		12.5	99.03	Pump elev.	94.03		Manifold elev.	106.78	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1 & 4	Pu & Pu	5.75	105.78	140	1/2in SCH 40	7.11	160.00	420	0.3810
2	Red	6.44	105.09	140	1/2in SCH 40	7.11	160.00	420	0.3810
3	Pink	6.82	104.71	140	1/2in SCH 40	7.11	160.00	420	0.3810
		total	feet =	420	gal/min =	21.3	LTAR =		0.3000
% of Pipe Vol.	66		Des. Flow		480.00	(ltar + 5%)		0.3150	
Dose Volume	180.18		Pump Run=		22.50	(ltar W/ Innov.)		0.4000	
Dose Pump Time	8.45		Tank Gal/IN		18	(ltar + 5%)		0.4200	
Drawdown in Inches	10.01		Elev. Head		12.75				
Supply Line Length	80								
Comments:									

Repair System

PRESSURE MANIFOLD DESIGN

Name: HHHunt Homes P.I.N. #: 0633-03-9414 D #: N/A

Address: 259 White Magnolia Lane Subdiv: Magnolia Acres Lot#: 32

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
(Horizontal 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: 40 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 1.66 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2.0 ft Elevation Head: 9.86 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: 14.92 ft Pump to Deliver: 27.12 gals/min at 14.92 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	11.53	is = 100.00	set at	32/33 rear eir			Design Head:		2.0
Pump tank elev.		12.5	99.03	Pump elev.	94.03	Manifold elev.		103.89	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
5	Yellow	8.64	102.89	58	1/2in SCH 80	5.48	104.46	174	0.6004
6	Blue	9.46	102.07	58	1/2in SCH 80	5.48	104.46	174	0.6004
7 & 8	O & W	10.33	101.20	76	1/2in SCH 40	7.11	135.54	228	0.5945
9 & 10	Pi & nf	12.59	98.94	76	1/2in SCH 40	7.11	135.54	228	0.5945
		total	feet =	268	gal/min =	25.2	LTAR =		0.3000
% of Pipe Vol.		145		Des. Flow	480.00			(ltar + 5%)	0.3150
Dose Volume		252.59		Pump Run=	19.06			(ltar W/ HPB)	0.6000
Dose Pump Time		10.03		Tank Gal/IN	18			(ltar + 5%)	0.6300
Drawdown in Inches		14.03		Elev. Head	9.86				
Supply Line Length		40							

Comments: Lines 5 & 6 require 13 panels each and Lines 7-10 require 9 panels each , totaling 62 panels for the system.