

Harnett County Environmental Health

File/Permit Number: SFD2504-0051

IMPROVEMENT PERMIT

County: Harnett

PIN/Lot Identifier: 0633-03-1260.000 Lot 15

Owner: HHHUNT LOT ACQUISITIONS LLC Applicant: HHHUNT LOT ACQUISITIONS LLC

Property Location: 810 MAGNOLIA ACRES LN FUQUAY-VARINA, NC 27526

Subdivision (if applicable) MAGNOLIA ACRES S/D Lot #: 15 Block: _____ Section: _____

New ☒ Expansion ☐ System Relocation ☐ Change of Use ☐

Facility Type: SFD 39.5' x 39.5'

Number of bedrooms: 3 Number of Occupants: 6 Other: _____

Design Wastewater Strength: ☒ Domestic ☐ High Strength ☐ Industrial Process Wastewater

Proposed Design Daily Flow: 360 GPD Proposed LTAR (Initial): .3 Proposed LTAR (Repair): .3

Proposed Wastewater System Type*: 25% Reduction System (Initial) Pump Required: ☐ Yes ☒ No ☐ May be required

Proposed Wastewater System Type*: 50% Reduction System (Repair) Pump Required: ☒ Yes ☐ No ☐ May be required

**Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII*

Effluent Standard: ☒ DSE ☐ HSE ☐ NSF/ANSI 40 ☐ TS-I ☐ TS-II ☐ RCW

Saprolite System (Initial): ☐ Yes ☒ No Saprolite System (Repair): ☐ Yes ☒ No

Fill System (Initial): ☐ Yes ☒ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area provide a fill plan)

Fill System (Repair): ☐ Yes ☒ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area provide a fill plan)

Usable Depth to LC (Initial)*: 32" Usable Depth to LC (Repair)*: 32" ** Limiting Condition*

Max. Trench Depth (Initial)*: 18"-20" Max. Trench Depth (Repair)*: 18"-20" ** Measured on the downhill side of the trench*

Artificial Drainage Required: ☐ Yes ☒ No If yes, please specify details: _____

Type of Water Supply: ☐ Private well ☐ Public well ☐ Shared well ☒ Municipal Supply ☐ Spring ☐ Other: _____

Drainfield location meets requirements of Rule .0508: Yes ☒ No ☐ Drainfield location meets requirements of Rule .0601: Yes ☒ No ☐

Permit valid for: ☒ Five years [site plan submitted pursuant to GS 130A-334(13a)] ☐ No expiration [plat submitted pursuant to GS 130A-334(7a)]

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.

Authorized Agent's Printed Name: Ren Levocz Expiration Date: 5-1-30

Authorized Agent's Signature: [Signature] Date: 5-1-25

See attached site sketch

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.

Harnett County Environmental Health

File/Permit Number: SFD2504-0051

CONSTRUCTION AUTHORIZATION

County: Harnett PIN/Lot Identifier: 0633-03-1260.000 Lot 15
Owner: HHHUNT LOT ACQUISITIONS LLC Applicant: HHHUNT LOT ACQUISITIONS LLC
Property Location: 810 MAGNOLIA ACRES LN FUQUAY-VARINA, NC 27526
Facility Type: SFD 39.5' x 39.5'

Number of bedrooms: 3 Number of Occupants: 6 Other: _____

☒ New ☐ Expansion ☐ Repair ☐ System Relocation ☐ Change of Use
Basement? ☐ Yes ☒ No Basement Fixtures? ☐ Yes ☒ No
Crawl Space? ☒ Yes ☐ No Slab Foundation? ☐ Yes ☒ No
Type of Wastewater System* 25% Reduction System (Initial) 25% Reduction System (Repair)

*Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII

Design Daily Flow: 360 GPD Wastewater Strength: ☒ Domestic ☐ High Strength ☐ Industrial Process Wastewater

Rule .0403(e) Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies (S.L. 2013-413 and 2014-120)? ☐ Yes ☐ No
(if yes, please provide engineering documentation)

Effluent Standard: ☒ DSE ☐ HSE ☐ NSF/ANSI 40 ☐ TS-I ☐ TS-II ☐ RCW

Type of Water Supply: ☐ Private well ☐ Public well ☐ Shared well ☒ Municipal Supply ☐ Spring ☐ Other: _____

Installation Requirements/Conditions

Septic Tank Size: 1,000 gallons Total Trench/Bed Length: 300' feet Trench/Bed Spacing: 9' feet on center
Trench/Bed Width: 36" inches LTAR: .3 gpd/ft² Usable Depth to LC (Initial)*: 32" ^{Limiting condition}
Soil Cover: 6" inches Slope Corrected Maximum Trench/Bed Depth†: 18"-20" inches ^{Measured on the downhill side of the trench}
Pump Tank Size (if applicable): 1,000 gallons Requires more than one pump? ☐ Yes ☐ No
Pump Requirements: _____ ft. TDH vs. _____ GPM Grease Trap Size (if applicable): _____ gallons
Distribution Method: ☐ Serial ☒ D-Box or Parallel ☐ Pressure Manifold(s) ☐ LPP ☐ Other: 3 - 100' Lines
Artificial Drainage Required: Yes ☐ No ☒ If yes, please specify details: _____

Legal Agreements (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)

Multi-party Agreement Required [Rule .0204(g)]: ☐ Yes ☐ No

Easement, Right-of-Way, or Encroachment Agreement Required [Rule .0204(d)]: ☐ Yes ☐ No

Declaration of Restrictive Covenants: ☐ Yes ☐ No

Pre-Construction Conference Required: Yes ☐ No ☒

Management Entity Required: ☐ Yes ☐ No Minimum O&M Requirements: _____

Conditions: No Foundation or Gutter Drains to be Directed Towards Septic System.

No Cutting or Grading of Soil in Septic or Septic Repair Area.

Greater maximum trench depth may be possible if backhoe pits are dug for health inspector evaluate Saprolite

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

Expiration Date: 5-1-30

Authorized Agent's Signature: Ren Levocz

Date: 5-1-25

See attached site sketch

Harnett County Environmental Health

SITE SKETCH

PIN 0633-03-1260.000

Permit Number SFD2504-0051

HHHUNT LOT ACQUISITIONS LLC

Applicant's Name

[Signature]

Authorized State Agent

MAGNOLIA ACRES S/D Lot 15

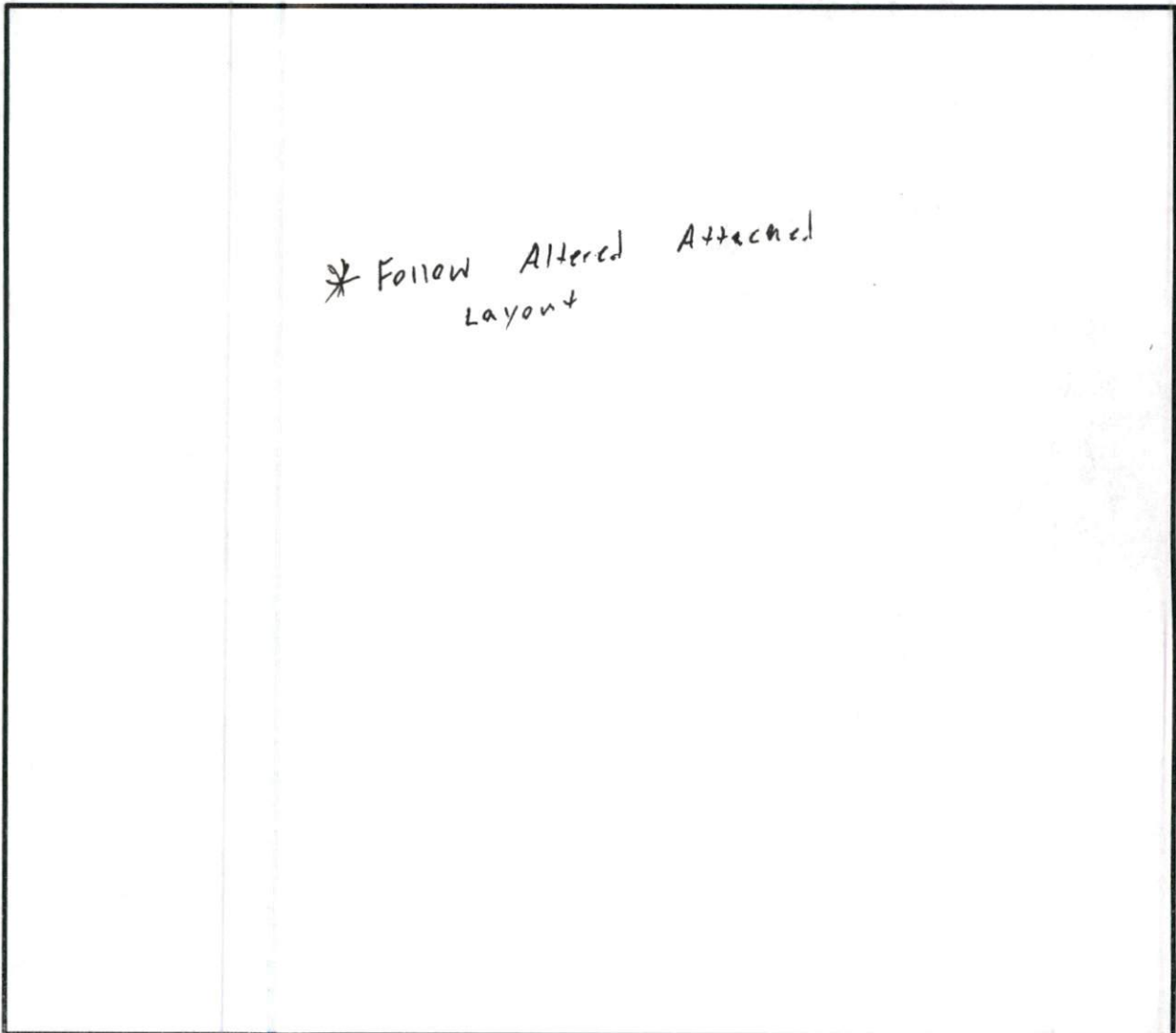
Subdivision/Section/Lot Number

5-1-25

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



3-Bedroom
 LTAR: 0.3 gpd/ft²
 Initial: Gravity-to-Innovative 25%
 Reduction Status Product utilizing
 lines 5-7 (300')
 Repair: Pump-to-PPBPS utilizing
 lines 2-4 (222')

*More Line Flagged
 Than Needed
 Only Need
 * 3-100's*

14

15

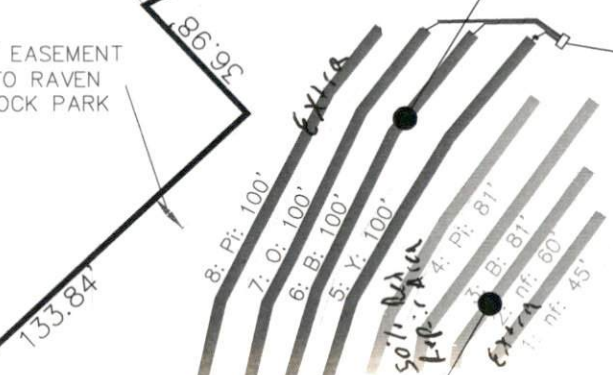
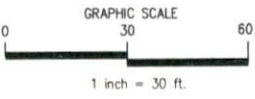
16

SITE
 BOUNDARY

Initial septic drainfield


10' EASEMENT
 TO RAVEN
 ROCK PARK

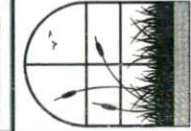
MAGNOLIA ACRES LANE



Repair septic drainfield

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

		<u>MITCHELL ENVIRONMENTAL, PA</u> C-2917		1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526	
PREPARED FOR : Hilbert Homes 1 Feltus Home Street Cory, NC 27511		DATE : April 3, 2025		DESIGNER CONTACT: ADAM AYCOCK, E	
REVISION NO. Original Submittal		DATE April 3, 2025		DRAWN BY: ADAM AYCOCK, E	
Revision 1					
Revision 2					
Revision 3					
Master Set					
SHEET NUMBER		1 of 5		Magnolia Acres Lot 16 Overall Septic	



Repair System

PRESSURE MANIFOLD DESIGN

Name: HHH Hunt Homes P.I.N. #: 0633-03-1260 D #: N/A

Address: 810 Magnolia Acres Lane Subdiv: Magnolia Acres Lot#: 15

of BDR: 3 Daily Flow: 360 gal/day L.T.A.R.: 0.300 gal/day/sq.ft

Septic Tank: 1000 gals (min.) Pump Tank: 1200 gals (min.) Sq. Foot: 801 Stone Depth: N/A
(Horizontal Panel Block)

Number of Taps: 3 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: 50 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 2.95 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2.0 ft Elevation Head: 5.00 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: 11.35 ft Pump to Deliver: 34.73 gals/min at 11.35 ft head

Dosing Volume: 251.65 gals.

Drawdown: 251.65 gals divided by 19 gals/in = 13.24 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: 152 Other:

TAP CHART

Bench Mark	9.45	is = 100.00	set at	EG at parent tract EIR			Design Head:		2.0	
Pump tank elev.		2	107.45	Pump elev.	102.45		Manifold elev.	108.32		
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	
1	Extra	nf	2.13	107.32	45	1/2in SCH 80	5.48	80.22	135	0.5942
2		nf	2.60	106.85	60	1/2in SCH 40	7.11	104.08	180	0.5782
3		Blue	3.17	106.28	81	3/4in SCH 80	10.10	147.85	243	0.6084
4		Pink	3.66	105.79	81	3/4in SCH 80	10.10	147.85	243	0.6084
		total	feet =	267	gal/min =	32.8	LTAR =		0.3000	
% of Pipe Vol.		145		Des. Flow	480.00			(ltar + 5%)	0.3150	
Dose Volume		251.65		Pump Run=	14.64			(ltar W/ HPB)	0.6000	
Dose Pump Time		7.67		Tank Gal/IN	19			(ltar + 5%)	0.6300	
Drawdown in Inches		13.24		Elev. Head	5.00					
Supply Line Length		50								
Comments:										