

Harnett County Environmental Health

File/Permit Number: SFD2408-0029

IMPROVEMENT PERMIT

County: Harnett
PIN/Lot Identifier: 0633-03-5553.000 Lot 39
Owner: HHHUNT HOMES RALEIGH DURHAM LLC Applicant: HHHUNT HOMES RALEIGH DURHAM LLC
Property Location: 216 WHITE MAGNOLIA LN FUQUAY-VARINA, NC 27526
Subdivision (if applicable) Magnolia Acres Lot #: 39 Block: _____ Section: _____
New Expansion System Relocation Change of Use
Facility Type: SFD 55.75' x 50.5'
Number of bedrooms: 4 Number of Occupants: 8 Other: _____
Design Wastewater Strength: Domestic High Strength Industrial Process Wastewater
Proposed Design Daily Flow: 480 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*: 25% 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)*: 38" Usable Depth to LC (Repair)*: 48" * Limiting Condition
Max. Trench Depth (Initial)*: 18" - 24" Max. Trench Depth (Repair)*: 18" - 24" * 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: 10-24-29
Authorized Agent's Signature: [Signature] Date: 10-24-24

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: SFD2408-0029

CONSTRUCTION AUTHORIZATION

County: Harnett PIN/Lot Identifier: 0633-03-5553.000 Lot 39
Owner: HHHUNT HOMES RALEIGH DURHAM LLC Applicant: HHHUNT HOMES RALEIGH DURHAM LLC
Property Location: 216 WHITE MAGNOLIA LN FUQUAY-VARINA, NC 27526
Facility Type: SFD 55.75' x 50.5'

Number of bedrooms: 4 Number of Occupants: 8 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: 480 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: 410' feet Trench/Bed Spacing: 9' feet on center

Trench/Bed Width: 38" inches LTAR: .3 gpd/ft² Usable Depth to LC (Initial)*: 48" ***Limiting condition**

Soil Cover: 6" inches Slope Corrected Maximum Trench/Bed Depth*: 18"-24" 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: Follow as Shown on Report

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.

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: 10-24-29

Authorized Agent's Signature: 

Date: 10-24-24

See attached site sketch

Harnett County Environmental Health

SITE SKETCH

PIN 0633-03-5553.000

Permit Number SFD2408-0029

HHHUNT HOMES RALEIGH DURHAM

Magnolia Acres Lot 39

Applicant's Name

Subdivision/Section/Lot Number

[Signature] REHS

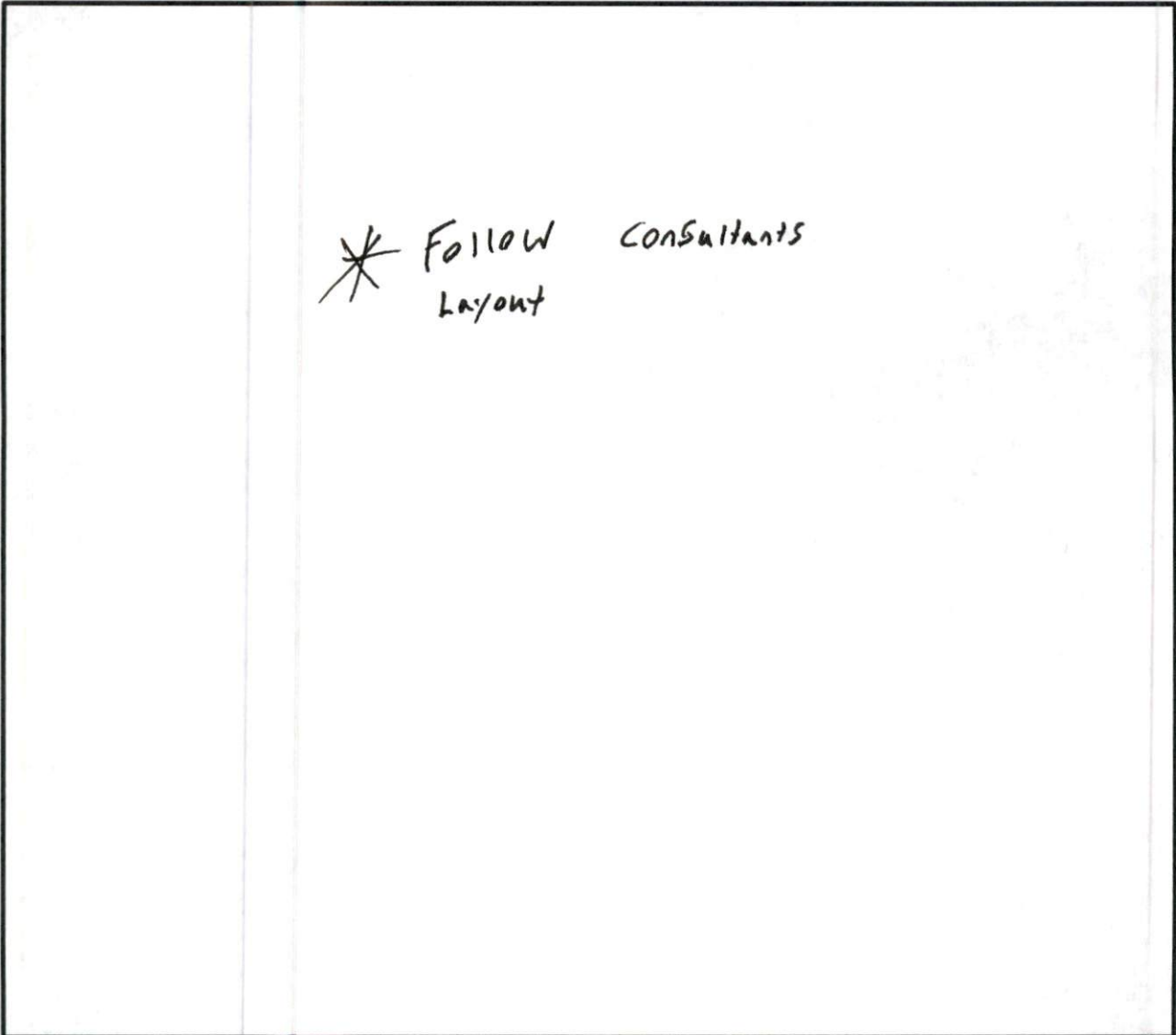
10-24-24

Authorized State Agent

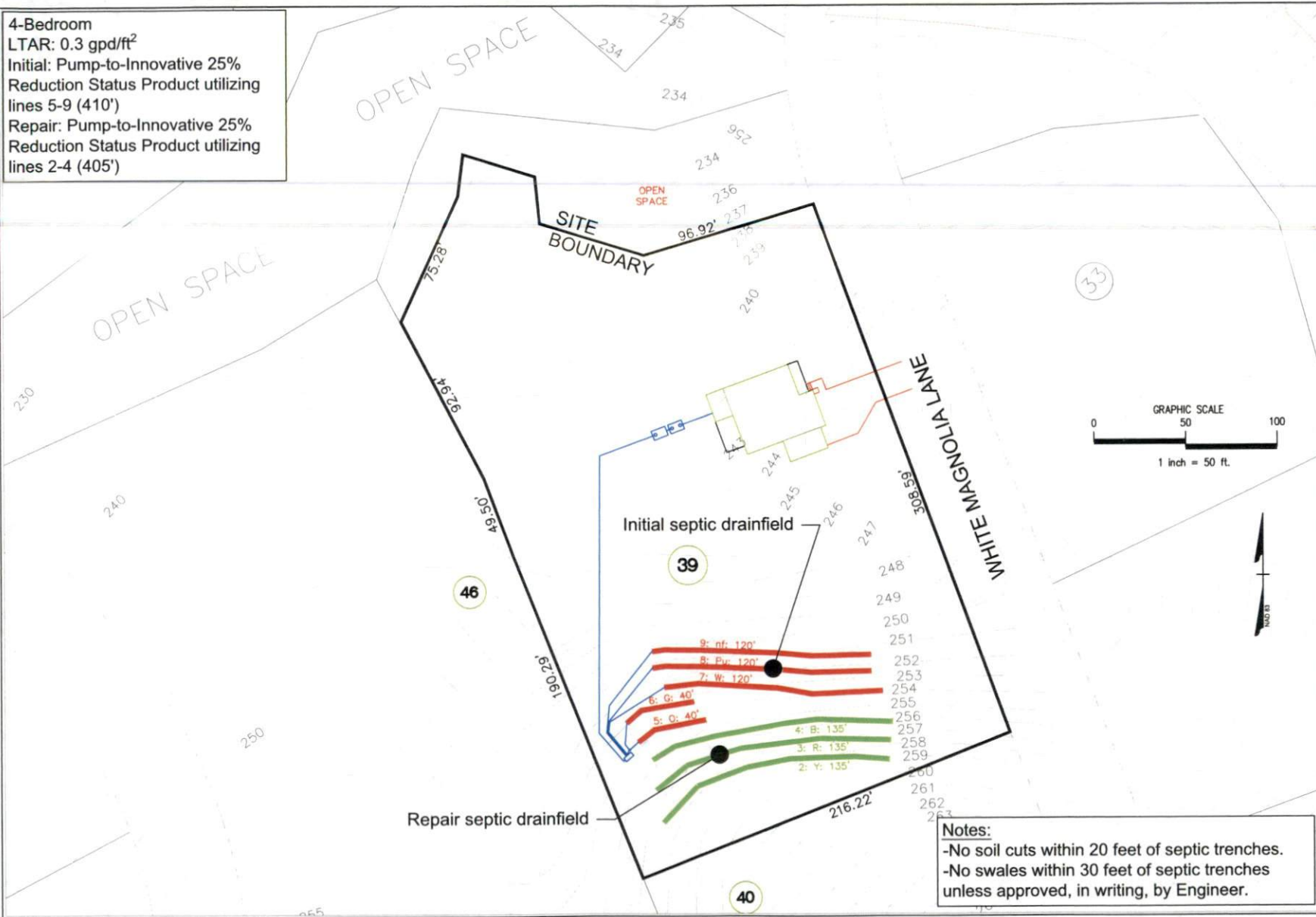
Date

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

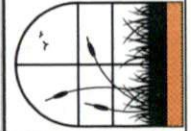


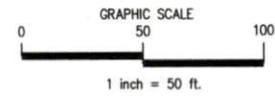
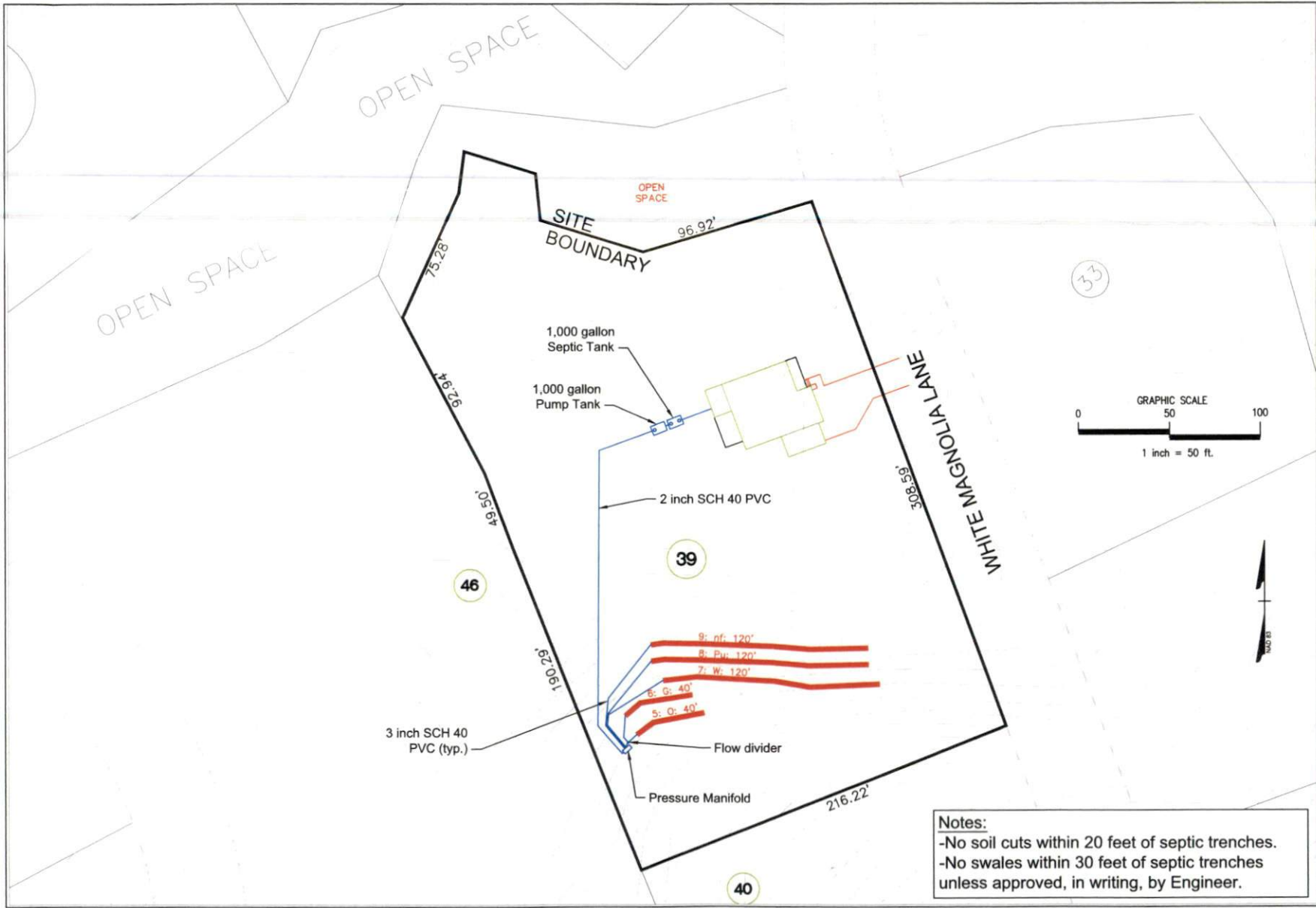
4-Bedroom
 LTAR: 0.3 gpd/ft²
 Initial: Pump-to-Innovative 25%
 Reduction Status Product utilizing
 lines 5-9 (410')
 Repair: Pump-to-Innovative 25%
 Reduction Status Product utilizing
 lines 2-4 (405')



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

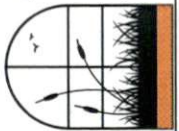
MITCHELL ENVIRONMENTAL, PA C-2911		REVISION NO. Original Submittal	DATE August 1, 2024	SHEET NUMBER 1 of 7
1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526		Revision 1	-----	Magnolia Acres Lot 39 Overall Septic
PREPARED FOR: Hillhart Homes 1 Fernon Mohr Street Suite 250 Cary, NC 27511		Revision 2	-----	
DATE: August 1, 2024		Revision 3	-----	
DESIGNER CONTACT: ADAM AYCOCK, D		Master Set	-----	
DRAWN BY: ADAM AYCOCK, D				





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

PREPARED FOR: Mitchell Home 1 Fenian Mah Street Suite 250 Cary, NC 27511		REVISION NO. Original Submittal Revision 1 Revision 2 Revision 3 Master Set	DATE August 1, 2024	SHEET NUMBER 2 of 7
DATE: August 1, 2024 DESIGNER CONTACT: ADAM AYCOCK, EI DRAWN BY: ADAM AYCOCK, EI		PROJECT: 1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526		
PROJECT: 1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526		LOCATION: Magnolia Acres Lot 89 Initial Nitrogen Field		



PRESSURE MANIFOLD DESIGN

Name: HHHunt Homes P.I.N. #: 0633-03-5553 D #: N/A
 Address: White Magnolia Lane Subdiv: Magnolia Acres Lot#: 39
 # 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: 1230 Stone Depth: N/A
 (EZ Flow)
 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: 205 ft Diameter: 2 in sch 40pvc
 Friction Loss + Fitting Loss: 4.66 ft(supply line length + 70' for fittings in pump tank)
 Design Head: 2.0 ft Elevation Head: 17.93 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: 32 ft
 Orifice / Vent Hole Flowrate: 2.35 gpm Head Loss at Orifice / Vent Hole: 2.03 ft
 Total Head: 26.63 ft Pump to Deliver: 29.16 gals/min at 26.63 ft head
 Dosing Volume: 175.89 gals.
 Drawdown: 175.89 gals divided by 18 gals/in = 9.77 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: 153 Other:

TAP CHART

Bench Mark	8.19	is = 100.00	set at	39/40 rear EIR	Design Head:	2.0			
Pump tank elev.	28	80.19	Pump elev.	75.19	Manifold elev.	93.12			
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
5 & 6	O & G	16.07	92.12	80	1/2in SCH 80	5.48	98.11	240	0.4088
7	White	18.46	89.73	110	1/2in SCH 40	7.11	127.30	330	0.3857
8	Purple	21.26	86.93	110	1/2in SCH 40	7.11	127.30	330	0.3857
9	nf	24.06	84.13	110	1/2in SCH 40	7.11	127.30	330	0.3857
		total	feet =	410	gal/min =	26.8	LTAR =		0.3000
% of Pipe Vol.	66			Des. Flow	480.00			(ltar + 5%)	0.3150
Dose Volume	175.89			Pump Run=	17.90			(ltar W/ Innov.)	0.4000
Dose Pump Time	6.56			Tank Gal/IN	18			(ltar + 5%)	0.4200
Drawdown in inches	9.77			Elev. Head	17.93				
Supply Line Length	205								
Comments:									

Repair System

PRESSURE MANIFOLD DESIGN

Name: HHHunt Homes P.I.N. #: 0633-03-5553 D #: N/A
 Address: White Magnolia Lane Subdiv: Magnolia Acres Lot#: 39
 # 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: 1215 Stone Depth: N/A
 (EZ Flow)
 Number of Taps: 3 Length of Trenches: 135 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: 250 ft Diameter: 2 in sch 40pvc
 Friction Loss + Fitting Loss: 3.56 ft(supply line length + 70' for fittings in pump tank)
 Design Head: 2.0 ft Elevation Head: 25.16 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: 34 ft
 Orifice / Vent Hole Flowrate: 2.42 gpm Head Loss at Orifice / Vent Hole: 2.16 ft
 Total Head: 32.87 ft Pump to Deliver: 23.75 gals/min at 32.87 ft head
 Dosing Volume: 173.75 gals.
 Drawdown: 173.75 gals divided by 18 gals/in = 9.65 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: 153 Other:

TAP CHART

Bench Mark	8.19	is = 100.00	set at	39/40 rear EIR	Design Head:	2.0			
Pump tank elev.	28	80.19	Pump elev.	75.19	Manifold elev.	100.35			
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
2	Yellow	8.84	99.35	135	1/2in SCH 40	7.11	160.00	405	0.3951
3	Red	10.81	97.38	135	1/2in SCH 40	7.11	160.00	405	0.3951
4	Blue	13.22	94.97	135	1/2in SCH 40	7.11	160.00	405	0.3951
		total	feet =	405	gal/min =	21.3	LTAR =		0.3000
% of Pipe Vol.		66	Des. Flow		480.00	(ltar + 5%)		0.3150	
Dose Volume		173.75	Pump Run=		22.50	(ltar W/ Innov.)		0.4000	
Dose Pump Time		8.15	Tank Gal/IN		18	(ltar + 5%)		0.4200	
Drawdown in Inches		9.65	Elev. Head		25.16				
Supply Line Length		250							
Comments:									