

Harnett County Environmental Health

File/Permit Number: EH2407-0015

CONSTRUCTION AUTHORIZATION

County: Harnett PIN/Lot Identifier: _____

Owner: _____ Applicant: Lyle Schettig

Property Location: 73 Gwendolyn Way F.V. N.C. 27526

Facility Type: EXISTING SFD

Number of bedrooms: 3 Number of Occupants: _____ 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* _____ (Initial) Pressure Manifold to Accepted (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: 6x gallons Total Trench/Bed Length: 280 feet Trench/Bed Spacing: 9 feet on center

Trench/Bed Width: 36 inches LTAR: .35 gpd/ft² Usable Depth to LC (Initial)*: 30" *Limiting condition

Soil Cover: 6 inches Slope Corrected Maximum Trench/Bed Depth*: 18 inches *Measured on the downhill side of the trench

Pump Tank Size (if applicable): 6x 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: _____

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: Follow Consultant's layout for Repair (Attached)

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: JAMES E. MANHART Expiration Date: 10-1-25
Authorized Agent's Signature: James E. Manhart Date: 10-1-24

Harnett County Environmental Health

SITE SKETCH

PIN _____

Permit Number EH 2409-0015

Lyle Schettig

Applicant's Name

James E. Markant FID 76143

Authorized State Agent

Ballant Wood's Lot 150

Subdivision/Section/Lot Number

10-1-24

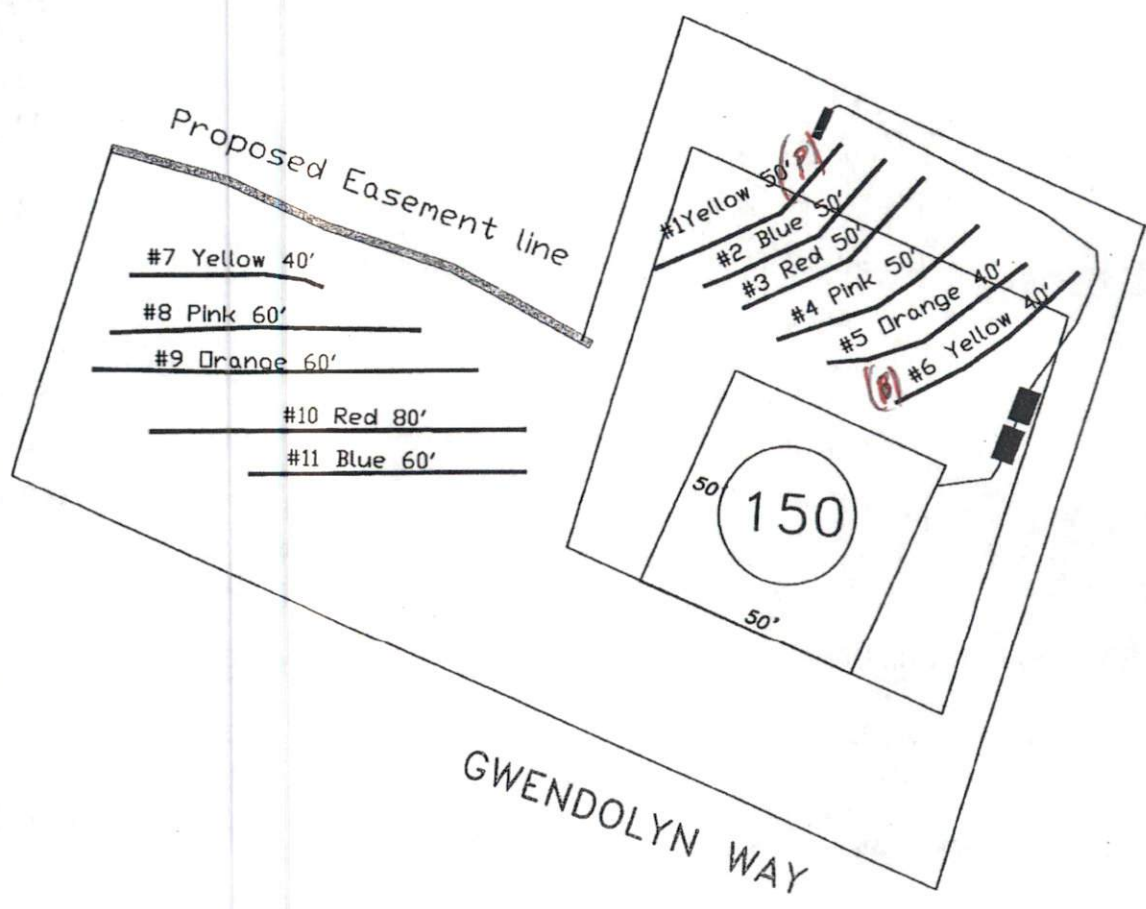
Date

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 = _____

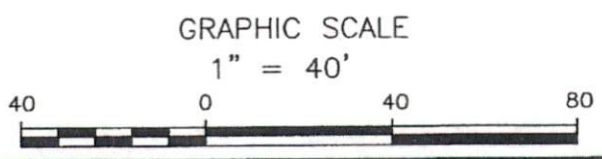
* Follow Consultants Layout for Pressure Manifold Repair
* Layout and Specifications are attached.

Oak City Homes Lot 150 Ballard Woods Subdivision 3-Bedroom System Layout



No foundation drains

System: Pressure Manifold
 Lines: 1-6, (280')
 0.35 LTAR
 18" Trench Bottom
 Accepted Status System
 Repair: Pressure Manifold
 Lines: 7-11, (280')
 0.35 LTAR
 18" Trench Bottom
 Accepted Status System



Central Carolina
 Soil Consulting
 919-784-9449
 Project # 680

Oak City Homes, Inc.
Ballard Woods Phase IV, Lot 150
 3-Bedroom Home (360 gal./day)

<u>LINE #</u>	<u>COLOR</u>	<u>BS</u>	<u>HI</u>	<u>FS</u>	<u>ELEVATION</u>	<u>LINE LENGTH</u>	<u>Design Length</u>
TBM		3.5		100.0		<u>in field</u>	<u>installation</u>
INST. 1			103.5				
1	Yellow			7.8	95.7	56	50
2	Blue			7.9	95.6	55	50
3	Red			8.2	95.3	54	50
4	Pink			8.5	95	50	50
5	Orange			8.8	94.7	45	40
6	Yellow			9.4	94.1	45	40
7	Yellow			7.1	96.4	40	40
8	Pink			7.6	95.9	68	40
9	Orange			8.2	95.3	62	60
10	Red			8.8	94.7	85	80
11	Blue			9.3	94.2	65	60
Total						625	560

System Type	<u>System</u>	<u>Repair</u>
	Lines 1-6 Accepted Status System EZ-FLOW	Lines 8-12 Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft ²)	0.35	0.35
System Installation LTAR	0.32	0.32
Total Line Length	280	280
Square Footage	840	840
Proposed Trench Bottom	18"	18"

Distribution Method Pressure Manifold Pressure Manifold

Notes: TBM is top of back eip 153/152
 Lines #5 Orange and #6 Yellow shall step down
 Lines #7 Yellow and #8 Pink shall step down

**Oak City Homes, Inc.
Lot 150, Ballard Woods Phase IV
System Tap Chart**

Bench Mark	3.50	is = 100.00	Location of BM		Elevation Head	14.90			
Pump tank elev.	16.7	86.80	Pump elev.	81.80	Manifold elev.	96.70			
line	color	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	
1	Yellow	7.80	95.70	50	1/2in SCH 80	5.48	67.96	150	0.4530
2	Blue	7.90	95.60	50	1/2in SCH 80	5.48	67.96	150	0.4530
3	Red	8.2	95.30	50	1/2in SCH 80	5.48	67.96	150	0.4530
4	Pink	8.5	95.00	50	1/2in SCH 80	5.48	67.96	150	0.4530
5 & 6	Oran/Yell	8.80	94.70	80	1/2in SCH 40	7.11	88.17	240	0.3674

total	feet =	280	gal/min =	29.03	LTAR =	0.3500
% of Dose Vol.	80	Des. Flow	360	LTAR + %5	0.3675	
Dose Volume	145.60	Pump Run=	12.40	(ltar W/ INOV)	0.4667	
Dose Pump Time	5.02	Tank Gal/IN	21	(ltar W/ INOV + 5%)	0.4900	
Drawdown in Inches	6.93					

**Oak City Homes, Inc.
Lot 150, Ballard Woods Phase IV
Repair Tap Chart**

Bench Mark	3.50	is = 100.00		Location of BM		Elevation Head			15.60
Pump tank elev.	16.7	86.80	Pump elev.	81.80	Manifold elev.				97.40
line	color	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	
7 & 8	Yell/Pink	7.10	96.40	80	1/2in SCH 40	7.11	101.65	240	0.4236
9	Orange	8.20	95.30	60	1/2in SCH 80	5.48	78.35	180	0.4353
10	Red	8.8	94.70	80	1/2in SCH 40	7.11	101.65	240	0.4236
11	Blue	9.3	94.20	60	1/2in SCH 80	5.48	78.35	180	0.4353

	total	feet =	280	gal/min =	25.18	LTAR =	0.3500
						LTAR + %5	0.3675
% of Dose Vol.	70		Des. Flow	360		(ltar W/ INOV)	0.4667
Dose Volume	127.40		Pump Run=	14.30		(ltar W/ INOV + 5%)	0.4900
Dose Pump Time	5.06		Tank Gal/IN	21			
Drawdown in inches	6.07						