

HTE# 06-5-15439

Harnett County Department of Public Health

23881

Improvement Permit

A building permit cannot be issued with only an Improvement Permit

ISSUED TO: Oak City Homes PROPERTY LOCATION: BALLARD RD
 SUBDIVISION BALLARD WOODS LOT # 36
 NEW REPAIR EXPANSION
 Type of Structure: SFD Site Improvements required prior to Construction Authorization Issuance:
 Proposed Wastewater System Type: Pump To 35% REDUCTIONS w/ PRESSURE MANIFOLD
 Projected Daily Flow: 360 GPD
 Number of bedrooms: 3 Number of Occupants: 6 max
 Basement Yes No
 Pump Required: Yes No May be required based on final location and elevations of facilities
 Type of Water Supply: Community Public Well Distance from well 100 feet Permit valid for: Five years
 No expiration
 Permit conditions: _____

Authorized State Agent: [Signature] RS Date: 4/19/07 SEE ATTACHED SITE SKETCH
 The issuance of this permit by the Health Department 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 site 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 the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit.

Construction Authorization

(Required for Building Permit)

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by references into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

ISSUED TO: Oak City Homes PROPERTY LOCATION: BALLARD RD
 SUBDIVISION BALLARD WOODS LOT # 36
 Facility Type: SFD New Expansion Repair
 Basement? Yes No Basement Fixtures? Yes No
 Type of Wastewater System** Pump To 35% REDUCTION w/ PRESSURE MANIFOLD (Initial) Wastewater Flow: 360 GPD
 (See note below, if applicable)
Pump To 25% REDUCTION (Repair)

Installation Requirements/Conditions

Septic Tank Size 1000 gallons Exact length of each trench _____ feet Trench Spacing: _____ Feet on Center DETAILS
 Pump Tank Size 1000 gallons Trenches shall be installed on contour at a _____ inches Soil Cover: _____ inches
 Maximum Trench Depth of: _____ inches (Maximum soil cover shall not exceed 36" above the trench bottom)
 (Trench bottoms shall be level to +/-1/4" in all directions)
 Pump Requirements: _____ ft. TDH vs. _____ GPM Aggregate Depth: _____ inches below pipe
 _____ inches above pipe
 _____ inches total
 Conditions: _____

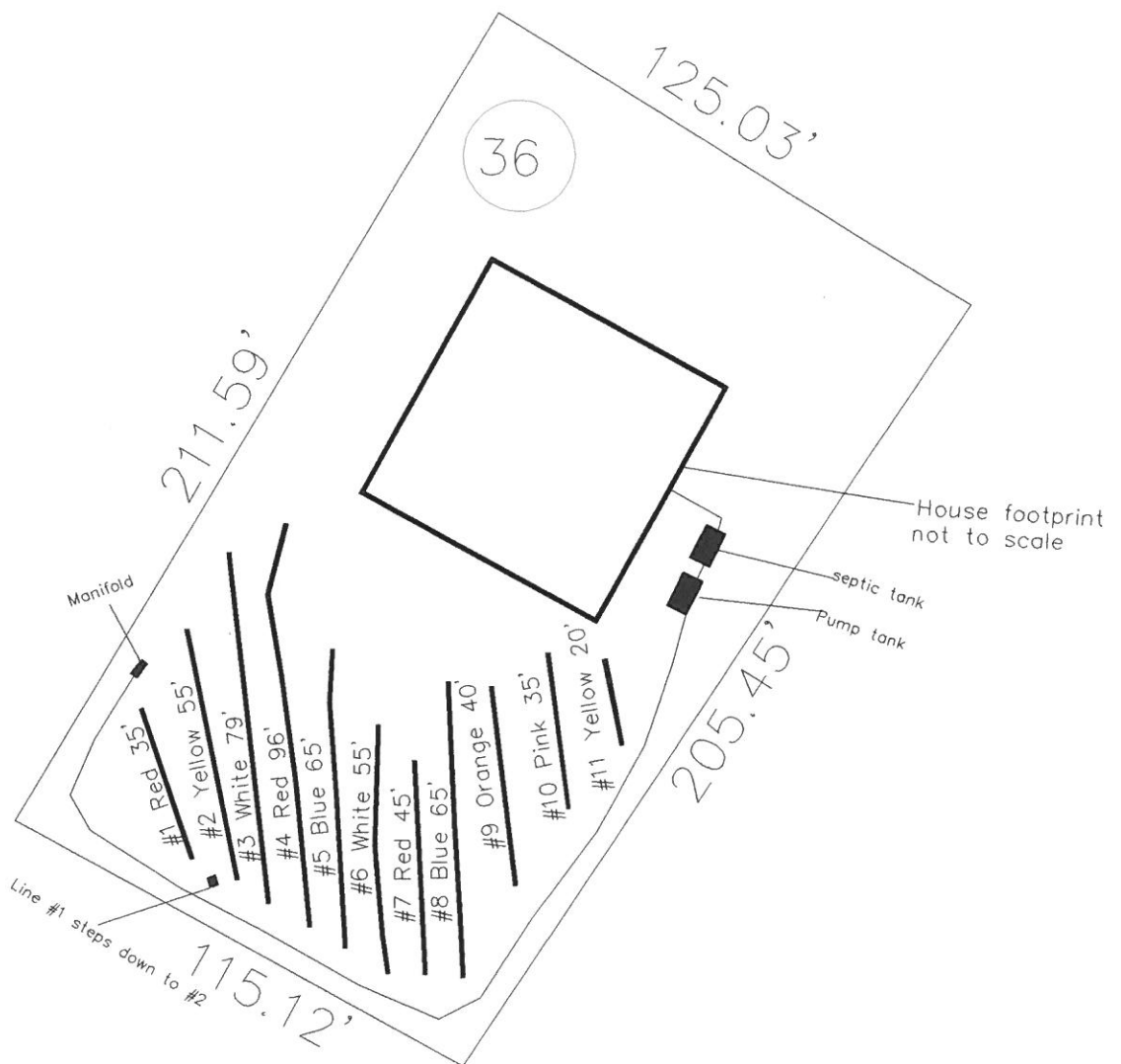
SEE ATTACHED PROPOSAL FOR ALL

**If applicable: *I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.*
 Owner/Legal Representative Signature: _____ Date: _____

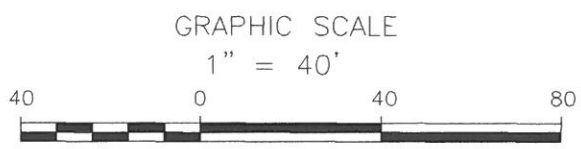
This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be transferred when there is a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

Authorized State Agent: [Signature] RS Date: 4/19/07 SEE ATTACHED SITE SKETCH
 Construction Authorization Expiration Date: 4/19/12

Ballard Woods
 Lot 36
 3-Bedroom Layout
 April 2007



System: Pressure Manifold
 Lines: 1-4, (260')
 0.3 LTAR
 12" Trench Bottom
 35% reduction proposed
 Repair: Pressure Manifold
 Lines: 5-10, (305')
 0.3 LTAR
 12" Trench Bottom
 Accepted Status System



Central Carolina
 Soil Consulting
 919-784-9449
 Project # 399

Ballard Woods

Lot 36

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		0.0		100.0		<u>in field</u>	<u>installation</u>
INST. 1			100.0				
1	Red			0.2	99.8	36	35
2	Yellow			2.0	98.0	57	55
3	White			4.0	96.0	79	75
4	Red			5.6	94.4	96	95
5	Blue			7.4	92.6	65	65
6	White			9.0	91.0	55	55
7	Red			10.8	89.2	47	45
8	Blue			14.3	85.7	69	65
9	Orange			16.2	83.8	42	40
10	Pink			18.5	81.5	35	35
11	Yellow			21	79.0	20	not used
					Total	601	565

	<u>System</u>	<u>Repair</u>
	Lines 1-4	Lines 5-11
System Type	Accepted Status System	Accepted Status System
	EZ-FLOW	EZ-FLOW
	*Proposed 35% reduction with 5 year guarantee by EZ-FLOW	
Suggested Soil LTAR (gal/day/ft ²)	0.300	0.3
System Installation LTAR	0.30	
Total Line Length	260	305
Square Footage	780	915
Proposed Trench Bottom	12"	12"
	8-10" of approved fill material required over drain field.	
Distribution Method	Pressure Manifold	Pressure Manifold
Notes:	No foundation drains Line #1 will step down to Line #2	

✓ installer

**Ballard Woods Lot 36
System, Tap Chart**

Bench Mark	0.00	is = 100.00	Location of BM						Elevation Head
Pump tank elev.		3	97.00	Pump elev.	92.00		Manifold elev.		
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	
1,2	Orange/Yellow	0.20	99.80	90	1/2in SCH 40	7.11	129.93	270	
3	Red	4.00	96.00	75	1/2in SCH 80	5.48	100.14	225	
4	Pink	5.6	94.40	95	1/2in SCH 40	7.11	129.93	285	

total feet = 260 gal/min = 19.7

% of Dose Vol. 70
 Dose Volume 118.30
 Dose Pump Time 6.01
 Drawdown in Inches 5.63

Des. Flow 360
 Pump Run= 18.27
 Tank Gal/IN 21

LTAR =
LTAR + %5
 (ltar W/ 35% reduction)
 (ltar W/ INOV + 5%)

8.80
100.80
LINE LTAR
0.4812
0.4451
0.4559

0.3000
0.3150
0.4615
0.4846