

Harnett County Department of Public Health Improvement Permit

A building permit cannot be issued with only an Improvement Permit

ISSUED TO: KB Homes Raleigh PROPERTY LOCATION: John Stark Dr
 SUBDIVISION Birchwood Grove LOT # 114
 NEW REPAIR EXPANSION Site Improvements required prior to Construction Authorization Issuance:
 Type of Structure: SFD (37'x48')
 Proposed Wastewater System Type: 25% Reduction System T+J PANEL
 Projected Daily Flow: 360 600 GPD
 Number of bedrooms: 3 5 Number of Occupants: 6 10 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 _____ feet Permit valid for: Five years
 No expiration
 Permit conditions: _____
 Authorized State Agent: _____ Date: 5/10/22 REVISED 10/13/22 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: KB Homes Raleigh PROPERTY LOCATION: John Stark Dr
 SUBDIVISION Birchwood Grove LOT # 114
 Facility Type: SFD (37'x48') New Expansion Repair
 Basement? Yes No Basement Fixtures? Yes No
 Type of Wastewater System** 25% Reduction System (pump) T+J PANEL (Initial) Wastewater Flow: 360 600 GPD
 (See note below, if applicable 25% Reduction System (pump) (Repair) T+J PANEL)
 Installation Requirements/Conditions
 Septic Tank Size 1000 1250 gallons
 Pump Tank Size 1000 1250 gallons
PRESSURE MANIFOLD
 Number of trenches 7 4
 Exact length of each trench 225 VARIOUS feet
 Trenches shall be installed on contour at a
 Maximum Trench Depth of: 18 inches
 (Trench bottoms shall be level to +/- 1/4" in all directions)
 Pump Requirements: _____ ft. TDH vs. _____ GPM _____ inches below pipe
 Aggregate Depth: _____ inches above pipe
 _____ inches total
 Conditions: THIS IS A FLOW REDUCTION PERMIT

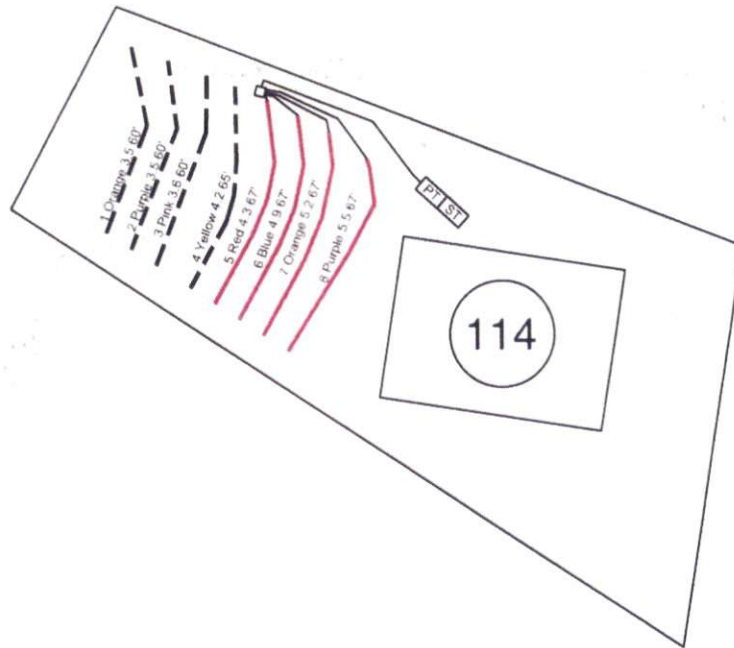
**WATER LINES (INCLUDING IRRIGATION) MUST BE 10FT. FROM ANY PART OF SEPTIC SYSTEM OR REPAIR AREA.
 NO UTILITIES ALLOWED IN INITIAL OR REPAIR DRAIN FIELD AREA.**

**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. SEE ATTACHED SITE SKETCH

Authorized State Agent: _____ Date: 5/10/22 10/13/22
 Construction Authorization Expiration Date: 5/10/27 10/13/27

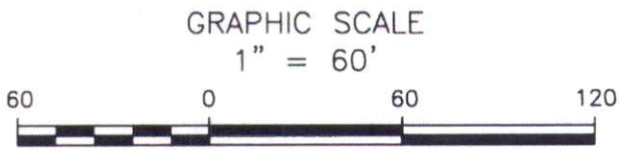


System: ———
 Repair: - - - -

- *Keep tanks and drain lines 10' from property lines.
- *Not a survey.
- *Not a guarantee of a septic permit.
- *Keep supply lines >5' from property lines.
- *Some lines are flagged longer in the field than lengths indicate.
- *No grading septic area.

System: Pump to D-Box
 Lines: 1-4, (4x67'x3')
 EZ Flow
 0.4 Soil LTAR
 24" Trench Bottom

Repair: Pressure Manifold
 Lines: 5-9, (245')
 T&J Panel
 0.4 Soil LTAR
 24" Trench Bottom



Central Carolina Soil Consulting, PLLC
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3-Bedroom Septic Layout
 Lot 114, Birchwood Subdivision
 Wake County, North Carolina

Job# : 3753
Drawn By : LW
Date : 08/17/2021
Revision:

Birchwood S/D Lot 114 System Tap Chart

Bench Mark										Elevation Head	8.30
Pump tank elev.		6.2	93.80	Pump elev.		88.40	Manifold elev.			96.70	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE	LTAR	
5	Red	4.30	95.70	65	1/2in SCH 40	7.11	120.00	195		0.6154	
6	Blue	4.90	95.10	65	1/2in SCH 40	7.11	120.00	195		0.6154	
7	Orange	5.20	94.80	70	1/2in SCH 40	7.11	120.00	210		0.5714	
8	Purple	5.50	94.50	75	1/2in SCH 40	7.11	120.00	225		0.5333	
		total	feet =	275	gal/min =	28.44			LTAR =	0.3500	
										LTAR + %5	0.3675
% of Dose Vol.	75			Des. Flow	480			(Itar W/ Panel)	0.7000		
Dose Volume	134.06			Pump Run=	16.88			(Itar W/ INOV + 5%	0.7350		
Dose Pump Time	4.71			Tank Gal/IN	19.65						
Drawdown in Inches	6.82										

Birchwood S/D Lot 114 Repair Tap Chart

Bench Mark										Elevation Head	9.10
Pump tank elev.		6.2	93.80	Pump elev.		88.40	Manifold elev.			97.50	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE	LTAR	
1	Orange	3.50	96.50	60	1/2in SCH 40	7.11	120.00	180		0.6667	
2	Purple	3.50	96.50	60	1/2in SCH 40	7.11	120.00	180		0.6667	
3	Pink	3.60	96.40	60	1/2in SCH 40	7.11	120.00	180		0.6667	
4	Yellow	4.20	95.80	65	1/2in SCH 40	7.11	120.00	195		0.6154	
		total	feet =	245	gal/min =	28.44			LTAR =	0.3500	
										LTAR + %5	0.3675
% of Dose Vol.	75			Des. Flow	480			(Itar W/ Panel)	0.7000		
Dose Volume	119.44			Pump Run=	16.88			(Itar W/ INOV + 5%	0.7350		
Dose Pump Time	4.20			Tank Gal/IN	19.65						
Drawdown in Inches	6.08										