

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: 268 Saint Clair Drive
 SUBDIVISION Birchwood Grove LOT # 88
 NEW REPAIR EXPANSION
 Type of Structure: SFD (38'x42') Site Improvements required prior to Construction Authorization Issuance:
 Proposed Wastewater System Type: Pump 25% Reduction
 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 _____ feet Permit valid for: Five years
 No expiration
 Permit conditions: _____

Authorized State Agent: ~~REHS~~ Date: 5/27/22 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: 268 Saint Clair Drive
 SUBDIVISION Birchwood Grove LOT # 88

Facility Type: SFD (38'x42') New Expansion Repair
 Basement? Yes No Basement Fixtures? Yes No
 Type of Wastewater System** ~~Pump 25% Reduction System~~ T+J PANEL (Initial) Wastewater Flow: 360 GPD
 (See note below, if applicable)
~~Pump 25% Reduction System~~ (Repair) T+J PANEL

Installation Requirements/Conditions

Septic Tank Size <u>1000</u> gallons	Number of trenches <u># 3</u>	Trench Spacing: <u>9</u> Feet on Center
Pump Tank Size <u>1000</u> gallons	Exact length of each trench <u>300 VARIOUS</u> feet	Soil Cover: <u>6</u> inches
	Trenches shall be installed on contour at a	(Maximum soil cover shall not exceed
	Maximum Trench Depth of: <u>18</u> inches	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
Conditions: <u>CA REVISED DUE TO GRADING ON LOT</u>		_____ inches total

**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.**

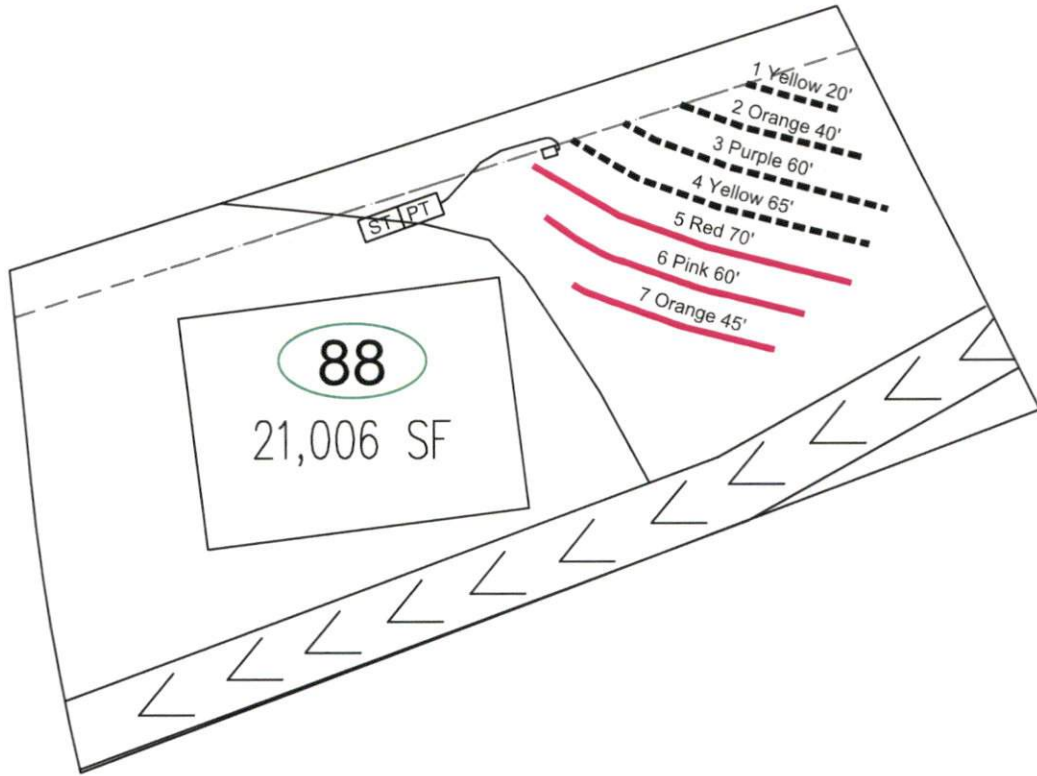
**If applicable: I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.

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: ~~REHS~~ Date: 5/27/22
 Construction Authorization Expiration Date: 5/27/27

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: Pressure Manifold Lines: 5-7, (175') T&J Panel 50% Reduction 0.35 Soil LTAR
Repair: Pressure Manifold Lines: 1-4, (185') T&J Panel 50% Reduction 0.35 Soil LTAR

GRAPHIC SCALE
 1" = 40'



Central Carolina Soil Consulting, PLLC
 1900 South Main Street, Suite 110
 Wake Forest, North Carolina 27587
 Phone (919)569-6704 Fax (919)569-6703

3-Bedroom Septic Layout
 Lot 88, Birchwood Subdivision
 Harnett County, North Carolina

Job# : 3753
Drawn By : AH
Date : 07/02/2021
Revision: 4/26/2022
Revision: 11/11/2022

**Birchwood S/D Lot 88
T&J Panel Block, Tap Chart (Initial)**

Bench Mark		Elevation Head								6.60		
Pump tank elev.		4.9	95.10	Pump elev.	89.70	Manifold elev.			96.30	Spacing of		
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels	Panels (in)	
5	Red	4.70	95.30	70	3/4in SCH 40	12.5	151.46	210	0.7213	16	6.1	
6	Pink	4.80	95.20	60	3/4in SCH 80	10.1	122.38	180	0.6799	14	5.1	
7	Orange	4.90	95.10	45	1/2in SCH 40	7.11	86.15	135	0.6382	10	7.3	

						Total Number of Panels:		40
	total	feet =	175	gal/min =	29.71	<u>LTAR =</u>	0.3500	
						<u>LTAR + %5</u>	0.3675	
% of Dose Vol.	0	<u>Des. Flow</u>	360			(ltar W/ INOV)	0.7000	
Dose Volume	200.00	Pump Run=	12.12			(ltar W/ INOV + 5%	0.7350	
Dose Pump Time	6.73	Tank Gal/IN	20					
Drawdown in Inches	10.00							

**Birchwood S/D Lot 88
T&J Panel Block, Tap Chart (Repair)**

Bench Mark		Elevation Head								7.00		
Pump tank elev.		4.9	95.10	Pump elev.	89.70	Manifold elev.			96.70	Spacing of		
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels	Panels (in)	
1&2	Y/O	4.30	95.70	60	1/2in SCH 40	7.11	120.00	180	0.6667	14	5.1	
3	Purple	4.50	95.50	60	1/2in SCH 40	7.11	120.00	180	0.6667	14	5.1	
4	Yellow	4.60	95.40	65	1/2in SCH 40	7.11	120.00	195	0.6154	15	5.6	

						Total Number of Panels:		43
	total	feet =	185	gal/min =	21.33	<u>LTAR =</u>	0.3500	
						<u>LTAR + %5</u>	0.3675	
% of Dose Vol.	0	<u>Des. Flow</u>	360			(ltar W/ INOV)	0.7000	
Dose Volume	215.00	Pump Run=	16.88			(ltar W/ INOV + 5%	0.7350	
Dose Pump Time	10.08	Tank Gal/IN	19.65					
Drawdown in Inches	10.94							