

Harnett County Department of Public Health

Improvement Permit

A building permit cannot be issued with only an Improvement Permit

ISSUED TO: KB Home PROPERTY LOCATION: 486 Saint Clair
 SUBDIVISION Birchwood Grove LOT # 175
 NEW REPAIR EXPANSION
 Type of Structure: SFD (60'x49')
 Proposed Wastewater System Type: 25% Reduction System
 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 conditions: _____ Permit valid for: Five years No expiration

Authorized State Agent: [Signature] Date: 8/21/23 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 Home PROPERTY LOCATION: 486 Saint Clair
 SUBDIVISION Birchwood Grove LOT # 175
 Facility Type: SFD (60'x49') New Expansion Repair
 Basement? Yes No Basement Fixtures? Yes No
 Type of Wastewater System** 25% Reduction System PANEL BLOCK (Initial) Wastewater Flow: 360 GPD
 (See note below, if applicable Panel Block PANEL BLOCK (Repair))

Installation Requirements/Conditions
 Septic Tank Size 1000 gallons
 Pump Tank Size 1000 gallons
 Number of trenches 1
 Exact length of each trench 330 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)
 Trench Spacing: 9 Feet on Center
 Soil Cover: 12 inches
 (Maximum soil cover shall not exceed 36" above the trench bottom)
 Pump Requirements: _____ ft. TDH vs. _____ GPM
 Aggregate Depth: _____ inches below pipe _____ inches above pipe _____ inches total

Conditions: BOTH SYSTEMS TO BE INSTALLED. SEE ATTACHED SHEETS FOR ALL CONDITIONS

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.

OT
REMOVED
11/29/23

**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

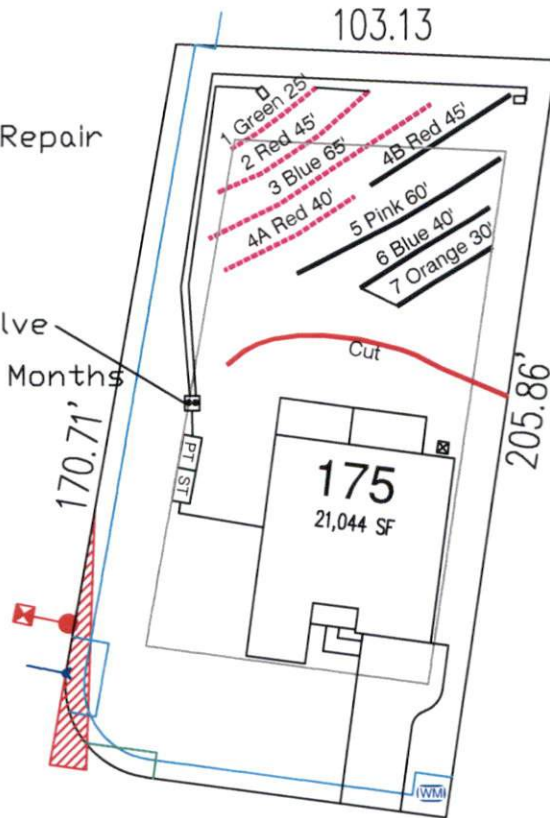
Authorized State Agent: [Signature] Date: 8/21/23
Construction Authorization Expiration Date: 8/21/28

- *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: 
 Repair: 

Install Both System and Repair

Pressure Rate T Valve
 Turn T Valve every 6 Months



System: Pressure Manifold Lines: 1-4A, (175') T&J Panel 50% Reduction 0.3 Soil LTAR 22" Trench Bottom
Repair: Pressure Manifold Lines: 4B-7, (175') T&J Panel 50% Reduction 0.3 Soil LTAR 22" Trench Bottom

GRAPHIC SCALE
 1" = 50'



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 175, Birchwood Subdivision
 Harnett County, North Carolina

Job# : 3753
Drawn By : AH
Date : 04/19/2023
Revision: 11/21/23

**Birchwood S/D Lot 175
T&J Panel Block, Tap Chart (Initial System)**

Bench Mark:		Elevation Head: 10.40										
Pump tank elev.	8.4	91.60	Pump elev.	86.20	Manifold elevation: 96.60					Spacing of	Feet of 1.5in	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels	Panels (in)	PVC
1&2	Gr/Red	4.40	95.60	70	3/4in SCH 80	10.1	141.59	210	0.6742	16	6.1	60
3	Blue	4.70	95.30	65	3/4in SCH 80	10.1	141.59	195	0.7261	15	5.6	56
4A	Red	4.70	95.30	40	1/2in SCH 80	5.48	76.82	120	0.6402	9	6.6	32

total		feet =	175	gal/min =	25.68	Total Number of Panels:	40
						T&J Panel Block Orientation:	Horizontal
						LTAR =	0.3000
% of Dose Volume	0	<u>Des. Flow</u>		360	<u>LTAR + %5</u>		0.3150
Dose Volume	200.00	Pump Run=		14.02	(ltar W/ INOV)		0.8000
Dose Pump Time	7.79	Tank Gal/IN		20	(ltar W/ INOV + 5%)		0.8400
Drawdown in Inches	10.00					Total Footage of 1.5in PVC:	148
		Backfill Sand Needed:		29.8 tons			
		backfill sand needed + 5%:		31.29 tons			

**Birchwood S/D Lot 175
T&J Panel Block, Tap Chart (Repair System)**

Bench Mark:		Elevation Head: 10.10										
Pump tank elev.	8.4	91.60	Pump elev.	86.20	Manifold elevation: 96.30					Spacing of	Feet of 1.5in	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels	Panels (in)	PVC
4b	Red	4.70	95.30	45	1/2in SCH 80	5.48	100.14	135	0.7418	10	7.3	36
5	Pink	4.80	95.20	60	1/2in SCH 40	7.11	129.93	180	0.7218	14	5.1	52
6&7	Bl/Or	5.30	94.70	70	1/2in SCH 40	7.11	129.93	210	0.6187	16	6.1	60

total		feet =	175	gal/min =	19.7	Total Number of Panels:	40
						T&J Panel Block Orientation:	Horizontal
						LTAR =	0.3000
% of Dose Volume	0	<u>Des. Flow</u>		360	<u>LTAR + %5</u>		0.3150
Dose Volume	200.00	Pump Run=		18.27	(ltar W/ INOV)		0.8000
Dose Pump Time	10.15	Tank Gal/IN		20	(ltar W/ INOV + 5%)		0.8400
Drawdown in Inches	10.00					Total Footage of 1.5in PVC:	148
		Backfill Sand Needed:		29.8 tons			
		backfill sand needed + 5%:		31.29 tons			

Harnett County Department of Public Health Site Sketch

Property Location: 486 Saint Clair

Issued To: KB Home

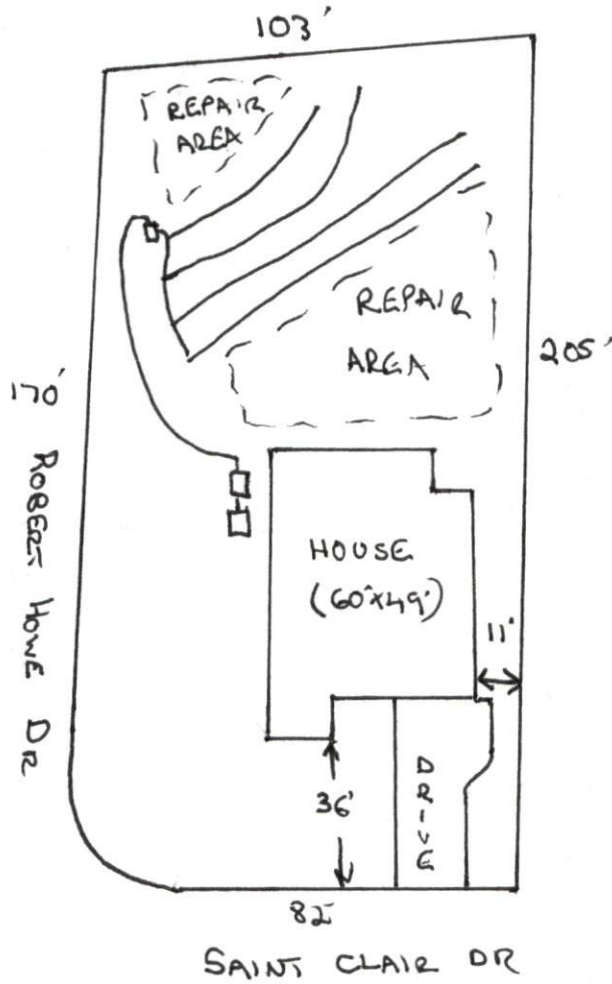
Subdivision Birchwood Grove

Lot # 175

Authorized State Agent:

~~REDACTED~~ RENS (OLIVER TOLKSDORF)

Date: 8/21/23



This drawing is for illustrative purposes only. System installation must meet all pertinent laws, rules, and regulations.