



**Improvement Permit**

A building permit cannot be issued with only an Improvement Permit

ISSUED TO: D. R. Horton Inc. PROPERTY LOCATION: 90 Long Meadow Ln. (Baptist Grove Rd.)  
 SUBDIVISION Lafayette Meadows Harnett County Government Complex  
 307 W. Cornelius Harnett Boulevard  
 Raleigh, NC 27546

NEW  REPAIR  EXPANSION   
 Type of Structure: 3-Bedroom 59'x47' SFD  
 Proposed Wastewater System Type: 25% Reduction Sys. ph: 910-893-7547  
 Projected Daily Flow: 360 GPD fax: 910-893-9371  
 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 NA feet Permit valid for:  Five years  
 No expiration  
 Permit conditions: \_\_\_\_\_

Authorized State Agent: [Signature] Date: 11/03/2021 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: D. R. Horton Inc. PROPERTY LOCATION: 90 Long Meadow Ln. (Baptist Grove Rd.)  
 SUBDIVISION Lafayette Meadows LOT # 4

Facility Type: 3-Bedroom 59'x47' SFD  New  Expansion  Repair  
 Basement?  Yes  No Basement Fixtures?  Yes  No  
 Type of Wastewater System\*\* Pump to 25% Reduction Sys. (Initial) Wastewater Flow: 360 GPD  
 (See note below, if applicable   
Pump to 25% Reduction Sys. (Repair)

**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>90</u> feet	Soil Cover: <u>6-12</u> inches
	Trenches shall be installed on contour at a	(Maximum soil cover shall not exceed
	Maximum Trench Depth of: <u>18-24</u> inches	36" above the trench bottom)
	(Trench bottoms shall be level to +/-1/4"	
	in all directions)	
Pump Requirements: _____ ft. TDH vs. _____ GPM		<u>NA</u> inches below pipe
		Aggregate Depth: <u>NA</u> inches above pipe
Conditions: <u>Proposal by Hal Owen &amp; Associates, Inc.</u>		<u>NA</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: [Signature] Date: 11/03/2021  
ANDREW CORN Construction Authorization Expiration Date: 11/03/2026



Harnett County Department of Public Health  
Site Sketch

Harnett County Government Complex  
307 W. Cornelius Harnett Boulevard

Lillington, NC 27546

Property Location: 90 Long Meadow Ln. (Baptist Grove Rd. - SR 1427)

Issued To: D. R. Horton Inc,

Subdivision Lafayette Meadows

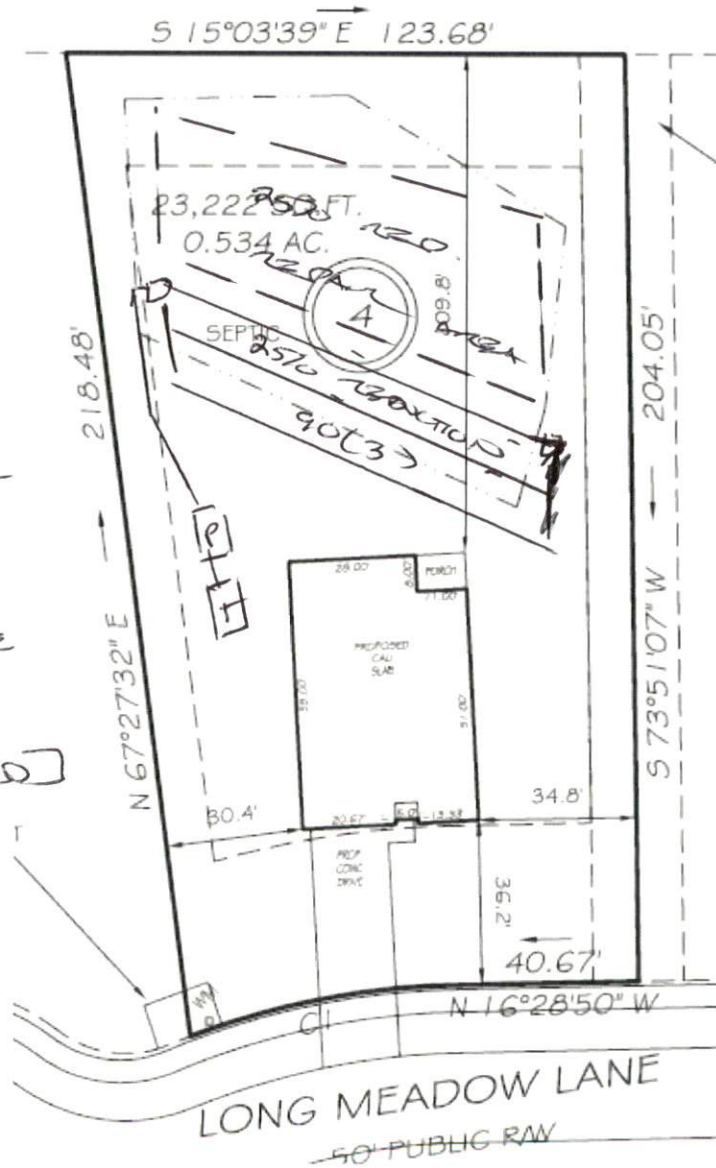
Lot # 4

Authorized State Agent:

*[Signature]*  
APPROVED WORK

ph: 910-893-7547

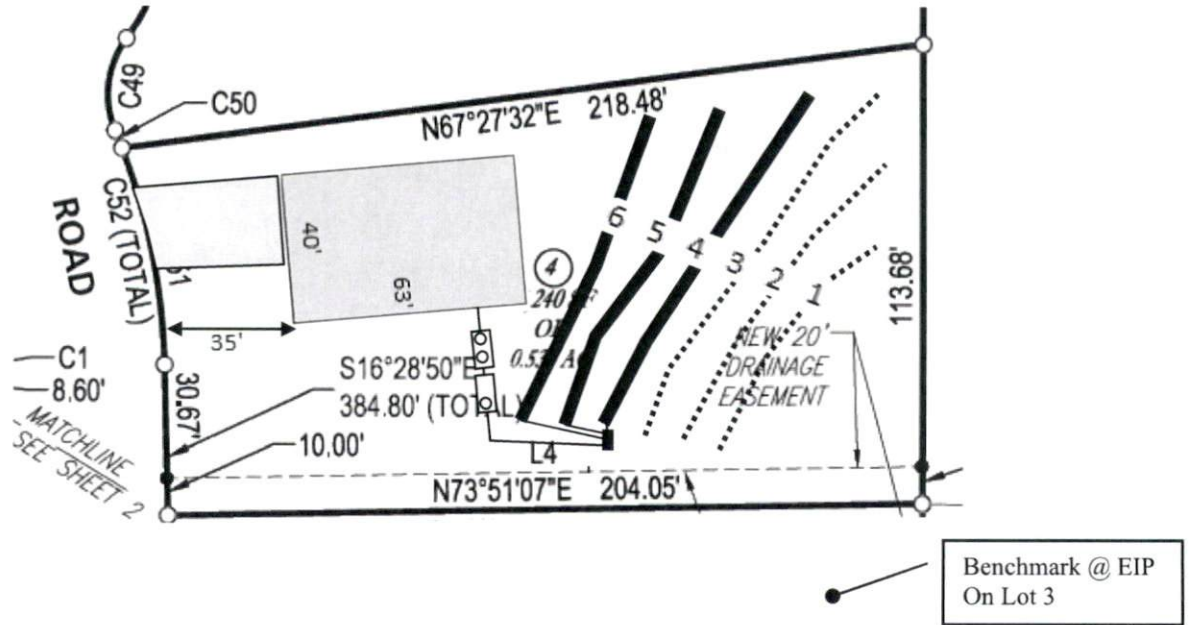
Date: 11/03/2011



\* PROPOSAL BY HAL OWENS & ASSOC.  
\* PUMP TO PRESSURE MANIFOLD  
[SPECS ATTACHED]

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


Lot 4, Lafayette Meadows Subdivision



Lines flagged at site on 9-ft centers.

Line #	Color	Relative Elevation		Drainline Length(ft)	Field Length(ft)
		North (ft)	South (ft)		
1	Y	99.35	98.85	68	68
2	W	99.05	98.64	80	87
3	B	98.53		110	115
4	R	98.33		90	104
5	Y	97.85		90	94
6	W	97.31		90	90
<b>Benchmark</b>		<b>100.00</b>	<b>100.00</b>		



Scale 1 in = 50 ft  
  
 Distances are paced  
 and approximate.  
 Not a survey.

This design represents our professional opinion but does not guarantee or represent permit approval by the Health Department.

3 bedroom home (360 gal/day)  
Initial System  
 Pump to 3 X 90ft (pressure manifold distribution)  
 Accepted Status System (25% reduction drainlines)  
 installed on contour at 18-24 inch trench depth  
 LTAR 0.35 gal/day/sqft  
Repair System  
 Pump to 288ft (pressure manifold distribution)  
 Accepted Status System (25% reduction drainlines)  
 installed off contour at 18-24 inch trench depth  
 LTAR 0.35 gal/day/sqft



**Lafayette Meadows Lot 4**

**Pressure Manifold Design Criteria**

**Initial System**

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size/Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
4	R	98.33	90	1/2"sch 40	7.11	1.333	0.444
5	Y	97.85	90	1/2"sch 40	7.11	1.333	0.444
6	W	97.31	90	1/2"sch 40	7.11	1.333	0.444

Total Drainline= 270      Total Flow= 21.33

Pressure Head (ft)= 2      Target LTAR\* (gpd/sf)= 0.47      LTAR + 5% 0.490

Daily Flow= 360      Total Flow (gpm)= 21.33      Daily PRT(min)= 16.88

Dose Vol= 132.23 gallons w/ Pipe Vol @% 75      Dose PRT (min)= 6.20

**Repair System**

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size/Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
1	Y	98.85	68	1/2"sch 80	5.48	1.279	0.426
2	W	98.64	80	1/2"sch 40	7.11	1.410	0.470
3	B	98.53	110	1/2"sch 80	10.10	1.457	0.486

Total Drainline= 258      Total Flow= 22.69

Pressure Head (ft)= 2      Target LTAR\* (gpd/sf)= 0.47      LTAR + 5% 0.490

Daily Flow= 360      Total Flow (gpm)= 22.69      Daily PRT(min)= 15.87

Dose Vol= 126.36 gallons w/ Pipe Vol @% 75      Dose PRT (min)= 5.57

\* Target LTAR: Convert LTAR for accepted system drainlines by dividing soil LTAR by 75%