App# SFD2110-0089

Harnett County Department of Public Health

Improvement Permit

A building permit cannot be issued with only an Improvement Permit

ISSUED TO: D.R. Horton Inc.

PROPERTY LOCATION: 144 Long Meadow Ln. (Baptist Grove Rd. -

SUBDIVISION Lafayette Meadows LOT # 8

NEW ☒ REPAIR ☐ EXPANSION ☐

Type of Structure: 38x36(4bed/2.5) SFD

Proposed Wastewater System Type: 25% Reduction Sys.

Projected Daily Flow: 480 GPD

Number of bedrooms: 4 Number of Occupants: 8 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

Site Improvements required prior to Construction Authorization Issuance:

Permit conditions:

Authorized State Agent:: [signature] Date: 11/22/2021 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: 144 Long Meadow Ln. (Baptist Grove R

SUBDIVISION Lafayette Meadows LOT # 8

Facility Type: 38x36(4bed/2.5) SFD ☒ New ☐ Expansion ☐ Repair

Basement? ☐ Yes ☒ No Basement Fixtures? ☐ Yes ☐ No

Type of Wastewater System** Pump to 25% Reduction System (Initial) Wastewater Flow: 480 GPD

(See note below, if applicable ☐)

Pump to 25% Reduction System (Repair)

Installation Requirements/Conditions

Septic Tank Size 1000 gallons

Pump Tank Size 1000 gallons

Number of trenches 3

Exact length of each trench 350 (total) feet

Trenches shall be installed on contour at a Maximum Trench Depth of: 18-24 inches (Trench bottoms shall be level to +/-1/4" in all directions)

Trench Spacing: 9 Feet on Center

Soil Cover: 6-12 inches (Maximum soil cover shall not exceed 36" above the trench bottom)

Pump Requirements: ____ ft. TDH vs. ____ GPM

Aggregate Depth: NA inches below pipe

NA inches above pipe

NA inches total

Conditions: Proposal by Hal Owens Assoc. Inc., Pressure Manifold

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: 11/22/2021

ANDREW GRAHAM Construction Authorization Expiration Date: 11/22/2026

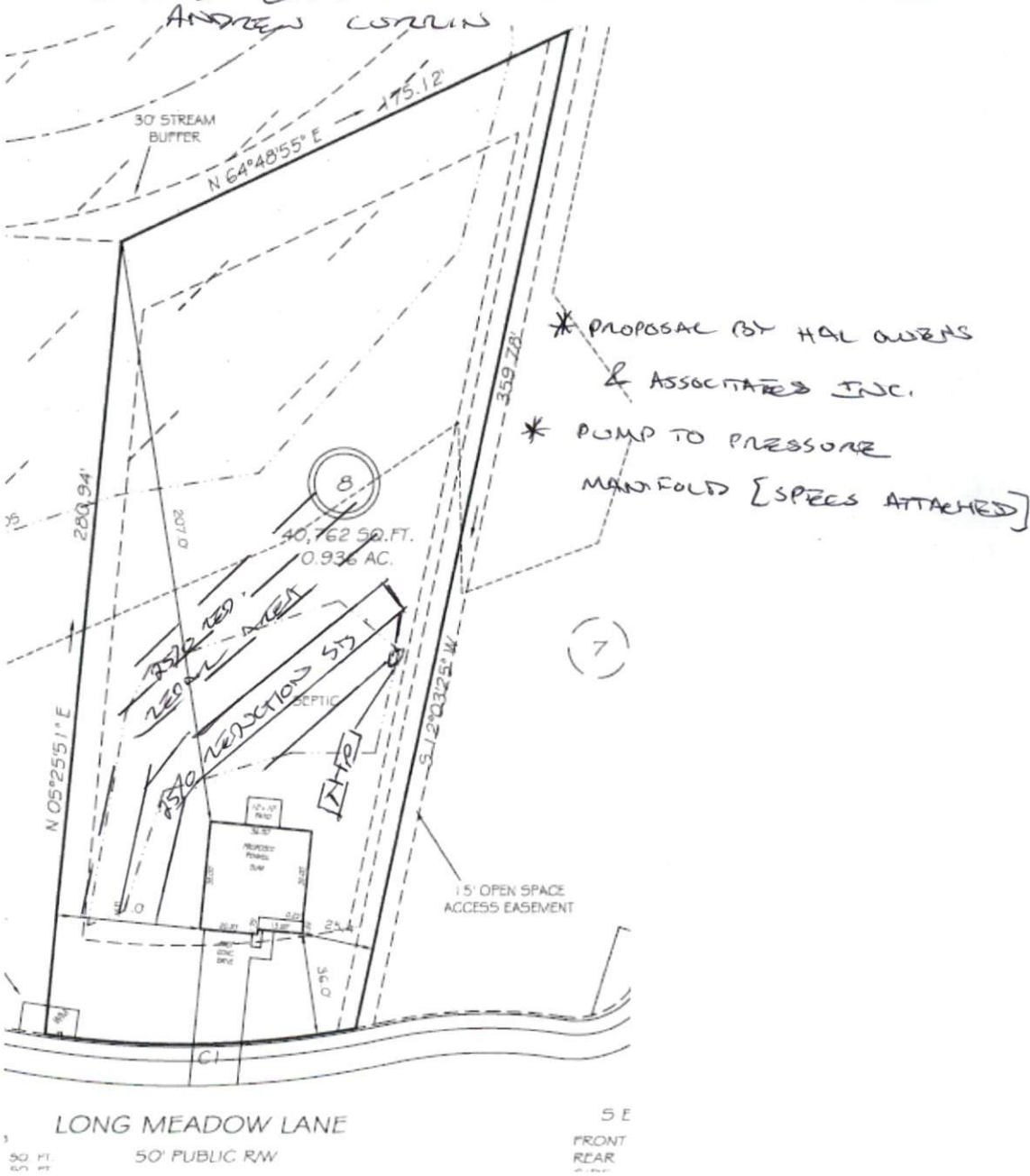
Application # SFD2110-0089

Harnett County Department of Public Health
Site Sketch

Property Location: 144 Long Meadow Ln. (Baptist Grove Rd. - SR 1427)

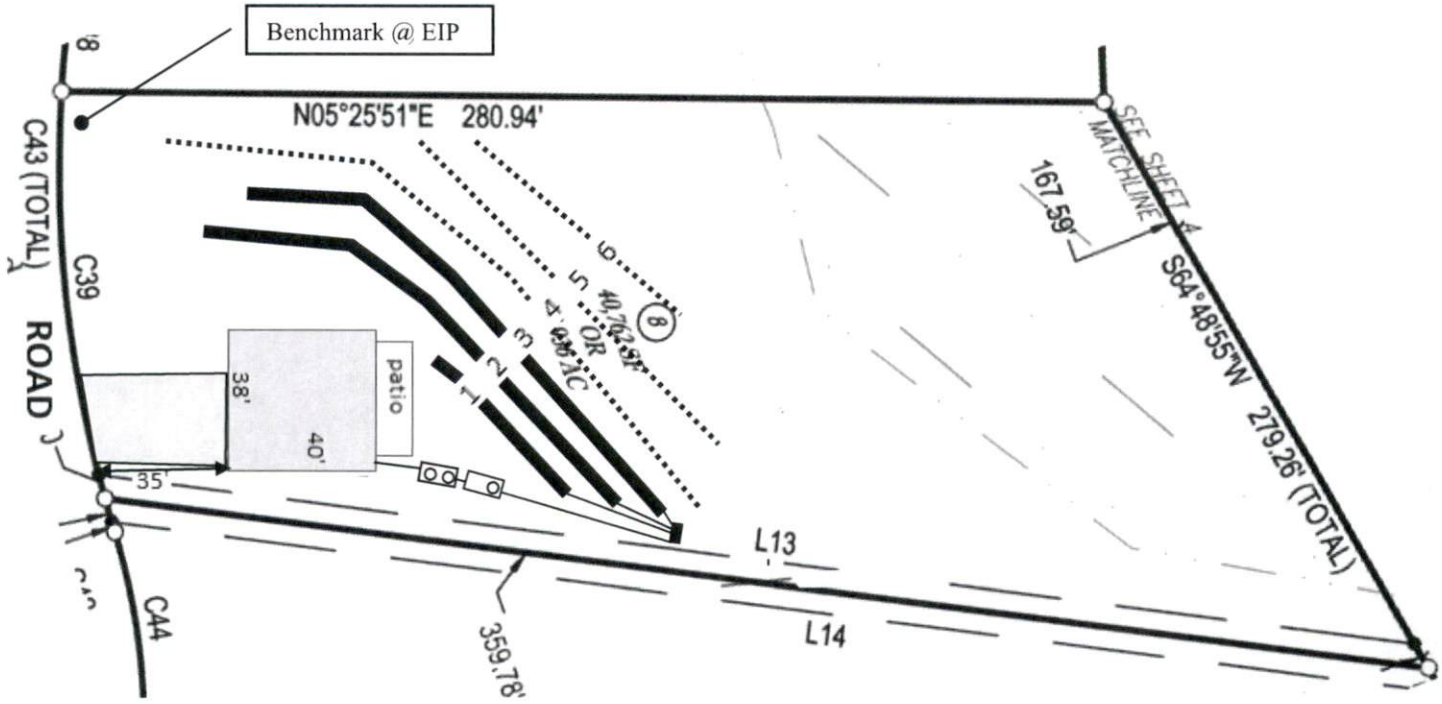
Issued To: D.R. Horton Inc. Subdivision Lafayette Meadows Lot # 8

Authorized State Agent: [signature] Date: 11/22/2021



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

Lot 8, Lafayette Meadows Subdivision



Lines flagged at site on 9-ft centers.

Line #	Color	Relative Elevation west (ft)	east (ft)	Drainline Length(ft)
1	W	97.78	97.53	50
2	Y	97.63	97.42	150
3	R	96.92	97.12	150
4	B	96.97	96.67	164
5	W	96.9	96.49	106
6	Y		96.08	73
Benchmark		**100.00**		

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.

4 bedroom home (480 gal/day)

Initial System

Pump to 350ft (pressure manifold distribution)
Accepted Status System (25% reduction drainlines)
installed off contour at 18-24 inch trench depth
LTAR 0.35 gal/day/sqft

Repair System

Pump to 343ft (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 8

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)
1	W	97.53	50	1/2"sch 80	5.48	1.367	0.456
2	Y	97.42	150	3/4"sch 40	16.50	1.372	0.457
3	R	97.12	150	3/4"sch 40	16.50	1.372	0.457

Total Drainline= 350 Total Flow= 38.48

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

Daily Flow= 480 Total Flow (gpm)= 38.48 Daily PRT(min)= 12.47

Dose Vol= 171.41 gallons w/ Pipe Vol @% 75 Dose PRT (min)= 4.45

Repair System

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size/ Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
4	B	96.67	164	1"sch 80	16.80	1.446	0.482
5	W	96.49	106	1/2"sch 40	10.10	1.345	0.448
6	Y	96.08	73	1/2"sch 40	7.11	1.375	0.458

Total Drainline= 343 Total Flow= 34.01

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

Daily Flow= 480 Total Flow (gpm)= 34.01 Daily PRT(min)= 14.11

Dose Vol= 167.98 gallons w/ Pipe Vol @% 75 Dose PRT (min)= 4.94

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