



Improvement Permit

A building permit cannot be issued with only an Improvement Permit

ISSUED TO: D. R. Horton Inc.

PROPERTY LOCATION: 34 Long Meadow Ln. (Baptist Grove Rd.)
SUBDIVISION Lafayette Meadows Lot # 1

NEW REPAIR EXPANSION

Type of Structure: 4-Bedroom 38'x36' 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 conditions: _____

Permit valid for: Five years
 No expiration

Authorized State Agent: _____

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: 34 Long Meadow Ln. (Baptist Grove Rd.)

SUBDIVISION Lafayette Meadows LOT # 1

Facility Type: 4-Bedroom 38'x36' SFD New Expansion Repair

Basement? Yes No Basement Fixtures? Yes No

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

(See note below, if applicable)

Pump to 25% Reduction Sys. (Repair)

Installation Requirements/Conditions

Septic Tank Size 1000 gallons

Pump Tank Size 1000 gallons

Number of trenches 4

Exact length of each trench Multi 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

Conditions: Proposal by Hal Owen & Associates, Inc.

NA 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: _____

Date: 11/03/2021

Andrew Conrad

Construction Authorization Expiration Date: 11/03/2029

Harnett County Department of Public Health Site Sketch

Property Location: 34 Long Meadow Ln. (Baptist Grove Rd. - SR 1427)

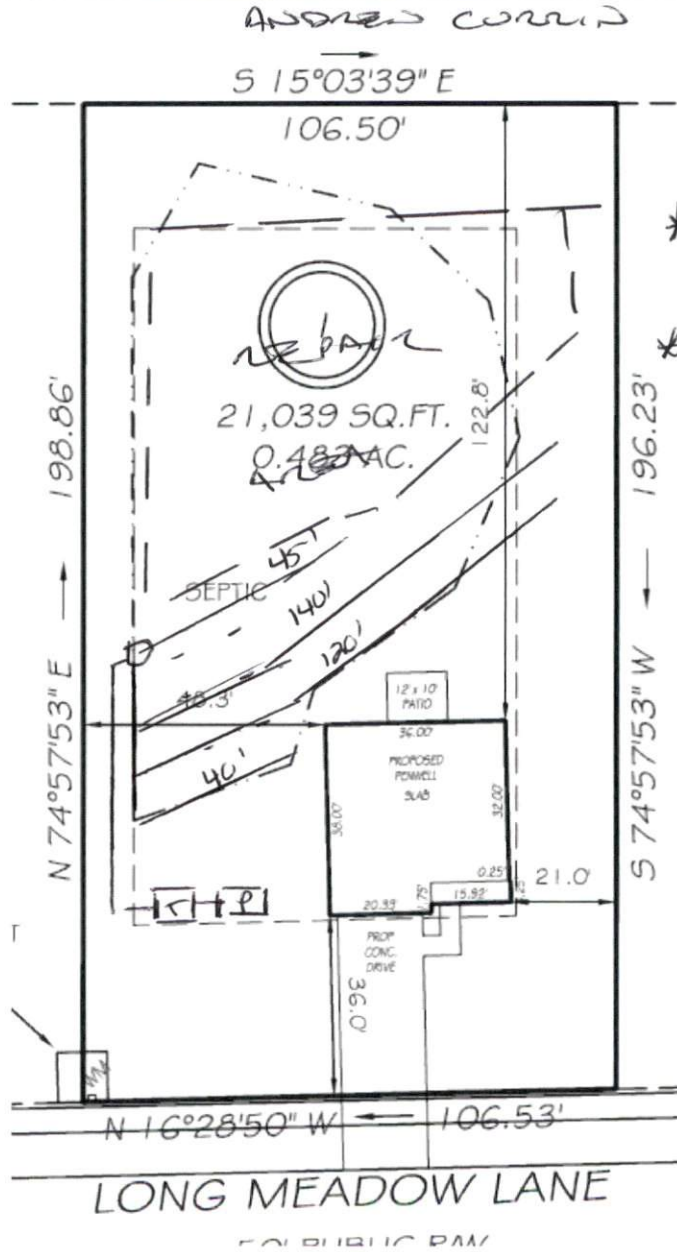
Issued To: D. R. Horton Inc.

Subdivision Lafayette Meadows

Lot # 1

Authorized State Agent: _____

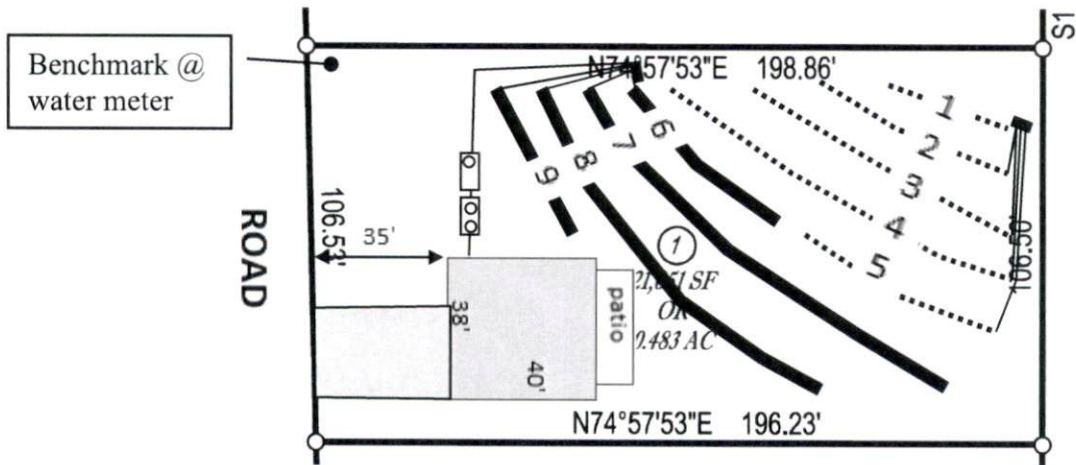
Date: 11/03/2021



* PROPOSAL BY H&C
GUYSS & ASSOC.
* PUMP TO MEASURE
MANIFOLD
[SIZES ATTACHED]

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


Lot 1, Lafayette Meadows Subdivision



Lines flagged at site on 9-ft centers.

Line #	Color	Relative Elevation (ft)	Drainline Length(ft)
1	W	102.19	45
2	R	102.03	67
3	B	101.90	84
4	Y	101.50	105
5	W	101.12	69
6	W	101.12	42
7	B	100.74	140
8	R	100.47	120
9			45
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
 Pressure manifold to 343ft (X3ft) of Accepted Status System (25% reduction drainlines) installed off contour at 18-24 inch trench depth
 LTAR 0.35 gal/day/sqft
Repair System
 Pressure manifold to 343ft (X3ft) of Accepted Status System (25% reduction drainlines) installed off contour at 18-24 inch trench depth
 LTAR 0.35 gal/day/sqft

Lafayette Meadows Lot 1

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)
6	W	101.12	42	FD 1"sch 40**	5.05	1.465	0.488
7	B	100.74	140	1"sch 80	16.80	1.462	0.487
8	R	100.47	120	3/4"sch 40	12.50	1.269	0.423
9			45	FD 1"sch 40**	5.05	1.367	0.456

Total Drainline= 347 Total Flow= 39.40

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

Daily Flow= 480 Total Flow (gpm)= 39.40 Daily PRT(min)= 12.18

Dose Vol= 169.94 gallons w/ Pipe Vol @% 75 Dose PRT (min)= 4.31

Repair System

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size/Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
1	W	102.19	45	FD 1"sch 40**	5.05	1.353	0.451
2	R	102.03	67	1/2"sch 40	7.11	1.280	0.427
3	B	101.90	83	3/4"sch 80	10.10	1.467	0.489
4	Y	101.50	106	3/4"sch 40	12.50	1.422	0.474
5	W	101.12	42	FD 1"sch 40**	5.05	1.450	0.483

Total Drainline= 343 Total Flow= 39.81

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

Daily Flow= 480 Total Flow (gpm)= 39.81 Daily PRT(min)= 12.06

Dose Vol= 167.98 gallons w/ Pipe Vol @% 75 Dose PRT (min)= 4.22

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

** FD: flow divider after tap to split flow equally between two lines.