



Improvement Permit

A building permit cannot be issued with only an Improvement Permit

ISSUED TO: D. R. Horton Inc. PROPERTY LOCATION: 104 Long Meadow Ln. (Baptist Grove Rd.)
 SUBDIVISION: Lafayette Meadows LOT # 5
 Type of Structure: NEW REPAIR EXPANSION
 Proposed Wastewater System Type: 25% Reduction Sys.
 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 NA feet
 Permit conditions: _____ Permit valid for: Five years No expiration

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: 104 Long Meadow Ln. (Baptist Grove Rd.)
 SUBDIVISION: Lafayette Meadows LOT # 5

Facility Type: 4- Bedroom 46x38' 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)

<u>Installation Requirements/Conditions</u>	Number of trenches <u>4</u>
Septic Tank Size <u>1000</u> gallons	Exact length of each trench <u>Multi</u> feet
Pump Tank Size <u>1000</u> gallons	Trenches shall be installed on contour at a Maximum Trench Depth of: <u>18-24</u> inches (Trench bottoms shall be level to +/-1/4" in all directions)
Pump Requirements: _____ ft. TDH vs. _____ GPM	Trench Spacing: <u>9</u> Feet on Center
	Soil Cover: <u>6-12</u> inches (Maximum soil cover shall not exceed 36" above the trench bottom)

Aggregate Depth: NA inches below pipe
NA inches above pipe
NA inches total

Conditions: Proposal by Hal Owen & Associates, Inc.

**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

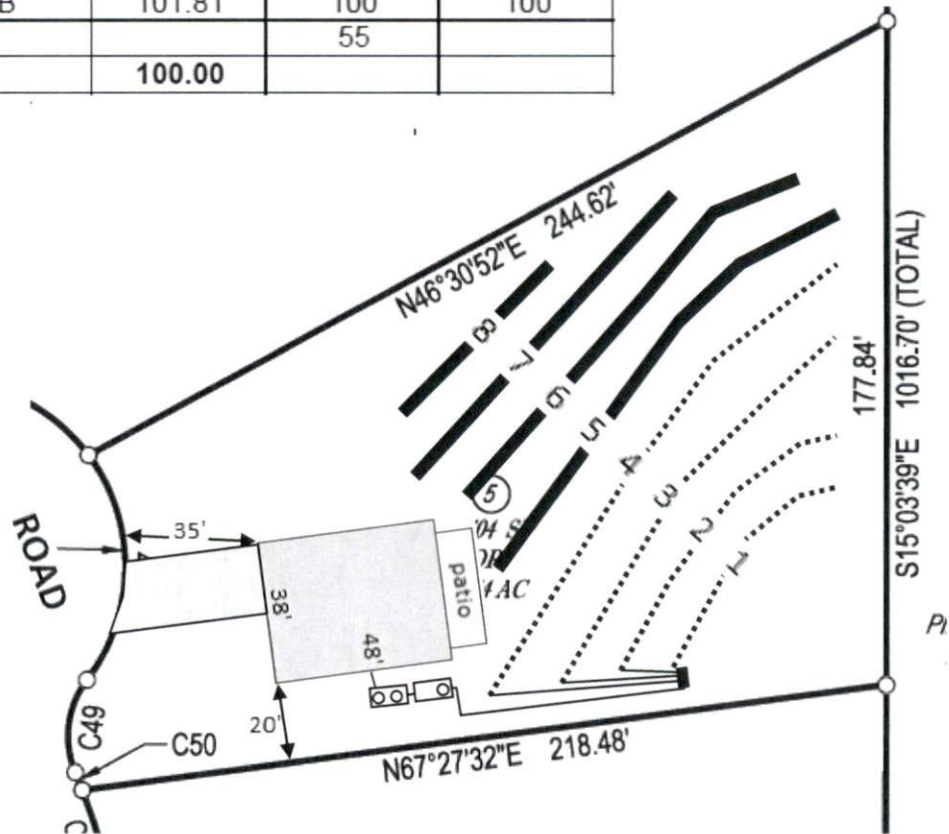
Authorized State Agent: [Signature] Date: 11/03/2021
ANDREW CORWIN Construction Authorization Expiration Date: 11/03/2026


Lot 5, Lafayette Meadows Subdivision

Design Flow (gal/day) = 480
 Lines flagged at site on 9-ft centers.

Line #	Color	Relative Elevation (ft)	Drainline Length(ft)	Field Length(ft)
1	R	104.16	60	65
2	Y	103.9	80	89
3	B	103.5	115	115
4	W	102.99	145	147
5	R	102.64	125	177
6	Y	102.22	125	150
7	B	101.81	100	100
8			55	
Benchmark		100.00		

Benchmark @
 EIP on Lot 6



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 400ft (pressure manifold distribution)
 Accepted Status System (25% reduction drainlines)
 installed on contour at 20 inch trench depth
 LTAR 0.3 gal/day/sqft
Repair System
 Pump to 405ft (pressure manifold distribution)
 Accepted Status System (25% reduction drainlines)
 installed on contour at 18-24 inch trench depth
 LTAR 0.3 gal/day/sqft

Lafayette Meadows Lot 5

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	R	104.16	60	1/2"sch 80	5.48	1.246	0.415
2	Y	103.90	80	1/2"sch 40	7.11	1.212	0.404
3	B	103.50	115	3/4"sch 80	10.10	1.198	0.399
4	W	102.99	145	3/4"sch 40	12.50	1.176	0.392

Total Drainline= 400 Total Flow= 35.19

Pressure Head (ft)= 2 Target LTAR* (gpd/sf)= 0.4 LTAR + 5% 0.420

Daily Flow= 480 Total Flow (gpm)= 35.19 Daily PRT(min)= 13.64

Dose Vol= 195.90 gallons w/ Pipe Vol @% 75 Dose PRT (min)= 5.57

Repair System

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size/Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
5	R	102.64	125	3/4"sch 40	12.50	1.183	0.394
6	Y	102.22	125	3/4"sch 40	12.50	1.183	0.394
7	B	101.81	100	3/4"sch 80	10.10	1.195	0.398
8			55	1/2"sch 80	5.48	1.179	0.393

Total Drainline= 405 Total Flow= 40.58

Pressure Head (ft)= 2 Target LTAR* (gpd/sf)= 0.4 LTAR + 5% 0.42

Daily Flow= 480 Total Flow (gpm)= 40.58 Daily PRT(min)= 11.83

Dose Vol= 198.35 gallons w/ Pipe Vol @% 75 Dose PRT (min)= 4.89

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