



Licensed Structural
Engineers

Document Number: LSE-2022-1093-STR-RPT-01-02

March 7, 2022

Executive Summary and Background

This letter summarizes the results of the visual inspection of a manufactured home located at 82 Old Salem Dr, Spring Lake, NC 28390 USA inspected on February 22nd, 2022. The owner hired LSE for an overall inspection.



Figure 1. Main entrance of the house facing South (towards Old Dutch Rd)

Project Name: 155-2021 10th Street - 10th Street

Date: 1/20/21

Executive Summary and Background

This letter summarizes the findings of the visual inspection of a manufactured home located at 81 Old Keller St., Spring Lake, NC 27380 as requested on February 12, 2021. The owner noted the following conditions:



Figure 1: Exterior view of the manufactured home.

Findings

A visual inspection of the house was performed. Findings of this inspection are presented in this report.

Girder beams are in good condition in terms of rust. Also, they are sitting appropriately on the piers.

The two perimeter girder beams are tied to the ground using a bracing system which seems to be acceptable for multi-section units.

Foundation piers were visually examined. They seem to be in sound conditions.

It is noted that the property is located in a county that is subject to Wind Zone 1.

According to the "State of North Carolina Regulations for Manufactured Homes", main I-beam (chassis beam) support piers that are not more than 36 inches in height, measured from the grade line to the top of the cap block, may be constructed of single-stacked 8"x8"x16" concrete blocks. Accordingly, we highly recommend avoiding single-stacked piers with heights over 36 inches. Double-stacked section shall be used for such piers.

Inside of the house was visually inspected as well; no cracks or imperfection was found at the time of inspection. Leveling of the house was checked using a laser level. A maximum difference of 0.8 inches was observed over a length of 40 feet. It is noted that the observed level difference is in the acceptable range.

Summary and Recommendations:

Foundation piers were visually examined. They seem to be in sound conditions. We highly recommend avoiding single-stacked piers with heights over 36 inches (if applicable). Double-stacked section shall be used for such piers.

Inside of the house was visually inspected as well; no cracks or imperfection was found at the time of inspection. Leveling of the house was checked using a laser level. A maximum difference of 0.8 inches was observed over a length of 40 feet. It is noted that the observed level difference is in the acceptable range.

I can approve that the house is complying with the HUD regulations.

LIMIT OF LIABILITY: This report was prepared under contractual agreement with the addressee (client) indicated above. The client has agreed to limit the liability of Licensed Structural Engineers, Inc. to an amount not to exceed three times the fee for services, for any and all matters arising from this visual examination and report. This report is based on a visual and non-destructive assessment (including measurements) of the structure. The information provided is based on the professional engineer's opinion considering the information collected at the time of the inspection. Any conclusions are valid for as long as the structure's conditions have not changed and are limited to the capacity of the methods used, pending further review by the undersigned Engineer after 60 calendar days. The information provided herein is for the exclusive use of the specified client. Licensed Structural Engineers, Inc. shall assume no liability for other parties who use the report without its express written consent.

Please contact our office if you have any questions, or if we may be of further service.

Best Regards,

Licensed Structural Engineers



03/08/2022

Mehrdad Hassani, PhD, EIT

Rohit Grandhi, NC PE 053454

Civil Engineer
Licensed Structural Engineers
7505 Fannin St Suite 440
Houston, TX 77002
Office (888) 393-4038
mehrdad.hassani@licensedstructuralengineers.com
www.licensedstructuralengineers.com

Senior Structural Engineer
Licensed Structural Engineers
7505 Fannin St Suite 440
Houston, TX 77002
Office (888) 393-4038
rohit.grandhi@licensedstructuralengineers.com

LIMIT OF LIABILITY: This report was prepared under contractual agreement with the address herein and the client has agreed to limit the liability of the Licensed Structural Engineer. It is not intended to exceed the fee for services, for any and all services arising from this report, including report. This report is based on a visual and non-destructive assessment (including measurements) of the structural members and provided is based on the professional engineer's opinion concerning the information collected at the time of the inspection. Any conclusions are based on the structural conditions that have been observed and are limited to the scope of the methods used, pending further review by the engineer. It is not intended to certify the information provided herein is for the exclusive use of the certified client. Licensed Structural Engineers, Inc. shall not be liable for other parties who use the report without the express written consent.

Please contact our office if you have any questions, or if we may be of further service.

Best regards,

Licensed Structural Engineers



[Handwritten signature]

[Handwritten signature]

08 0812025

Report prepared by: [Name]
Date: [Date]
Address: [Address]
City: [City]
State: [State]
Zip: [Zip]
Phone: [Phone]
Fax: [Fax]
E-mail: [Email]