

Date: 07/17/2023

To: Thomas Rogers
Kustom US, Inc.
200 Powell Dr
Raleigh, NC 27606
thomas.rogers@kustom.us
704-560-4010

Re: Car Impact Damage
Location: 140 Oxfordshire Dr. (Fuquay-Varina, NC)
JDS Project No.: RDU2305970
Date of Inspection: 07/17/2023

A representative of JDS Consulting arrived on site to observe the issues reported to us by the client, which are presented, along with our recommendations, in this report.

Observations

The client requested evaluation of the impact damage occurring at the right side of the garage at the front elevation. The contractor revealed the framing at the right corner of the garage from the interior side. The following was observed:

- The foundation wing wall has been pushed off the footing and the CMU has sheared in multiple locations.
- The stud framing beneath the garage beam has been pushed inward with the CMU wing wall.
- The garage beam does not appear to have rotated with the framing and foundation wall. A 2'-0" level revealed the beam to be approximately plumb at the left and right ends.

Recommendations

Based on our on-site evaluation and review:

- Construct a new minimum 8" thick CMU foundation wing wall centered atop the existing footing per Chapter 4 of the 2018 NCRC.
- Replace all damaged stud framing with studs of similar dimension, stud/column count, and species.
- Ensure minimum (2) 1/2" diameter through bolts are installed at the wing wall section and are embedded minimum 7-1/2" into a grouted masonry cell. The bolts shall be middle third of the sill plate.
- If damage is uncovered outside of our observations, please contact a JDS Consulting representative for further evaluation.

If you have any questions or if I can be of further assistance to you on this project, please contact me at 919-548-0978.

Respectfully Submitted,
Patrick Kurtz

Reviewing Engineer: Uchenna Onwuemene, PE

