

Date: 12/28/2021

To: **Larry Williams**
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919-332-7471

Re: **Fire Damage**
Location: 35 Southern Place, Lillington, NC
JDS Project No.: RDU2113153
Date of Inspection: 12/28/2021

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 has requested evaluation of fire damage sustained along the right rear corner of the home. The fire begun exterior porch and carried up to the roof system. The following was observed:

1. Roof system, the following members were damaged:
 - The rightmost gable truss.
 - The 1st-10th roof trusses from the right exterior wall above the kitchen.
 - The 1st-9th valley truss from the right exterior wall above the garage.
 - The 1st-3rd roof truss from the rear garage wall spanning left to right.
2. 1st Floor System, the following members were damaged:
 - 2x4 framing at the rear exterior wall over an approximate 11'-6" span beginning at the right end of the home.
 - OSB subfloor is warped and has sustained water damage throughout the home.
3. Crawlspace, the following members were damaged:
 - The 2x10 band spanning left to right at the rear exterior wall of the home.
 - The 1st 2x10 joist spanning front to back at the right end of the home.

Recommendations

Based on our on-site observation and review, the contractor should complete the following:

1. Roof System, the following members were damaged:
 - a. Trusses referenced above have been compromised and should be replaced. Contact a truss manufacturer to construct trusses to match the damaged trusses with identical bearing locations.
2. 1st Floor System:
 - a. Framing referenced above has been compromised and should be replaced with new lumber and OSB to match the removed portions and match the permitted structural plans.
3. Crawlspace, the following members were damaged:
 - a. Framing referenced above has been compromised and should be replaced to match the removed portions.

Note: This was a limited visual inspection. Only members visible at the time of visit have been evaluated. The remaining smoke-stained framing shall be soda blasted. Where smoke stains have been lifted from soda blasting, the framing should be visually inspected. If further damage is revealed outside of the scope of the recommendations cited above, the client should contact a JDS representative for further evaluation. The damaged members are assumed to be adequately designed as originally installed.

If you have any questions or if I can be of further assistance to you on this project, please contact me at 984-220-0605.

Respectfully Submitted,
Jackson Hawkins



Reviewing Engineer:
Jonathan Crouch, PE