



**Mirkwood Engineering**  
Structural Engineers

July 13, 2020

re. Structural Review of Fire Damaged Residence  
398 Mountain Brow Road, Burlington, ON  
Our Project Number 20081

To whom it may concern:

This will confirm that the undersigned visited the above noted property address on today's date (July 13, 2020) to review obvious fire damage to an existing two storey, wood framed house. The fire has greatly affected and/or consumed approximately 75% to 80% of the structure (mostly on the south side of the building). Attached is a series of photographs of the extent of fire damage (Figures 1 through 9). Note that this review was based on random visual inspection. No detailed testing or sampling was carried out. Only structure that was accessible and visible during our review can be commented on.

Below is a summary of what we witnessed:

- The roof and 2<sup>nd</sup> storey are entirely gone for most of the south 2/3's of the structure and the roof is damaged in the north part as well.
- Interior stud walls (both load bearing and non-load bearing) have been destroyed or compromised in most locations and the exterior walls are also either compromised or destroyed.
- The ground floor is mostly gone for the south 2/3's of the structure.
- Remaining areas mostly untouched by the fire are also significantly damaged by water/element exposure.

In our opinion, this structure is unsafe and should be demolished immediately and no person should enter this structure except as required to carry out this work in accordance with all application health and safety/labour codes and regulations.

Yours very truly,

Mirkwood Engineering

Kyler Jones, P. Eng.





**Figure 1: Typical Condition of Interior Ground Floor Framing (Over Basement) on South 2/3 of Building**





**Figure 2: Typical Condition of Interior Ground Floor Framing (Over Basement) on South 2/3 of Building**



**Figure 3: Typical Condition of 2<sup>nd</sup> Floor and Roof Structure on South 2/3 of Building**





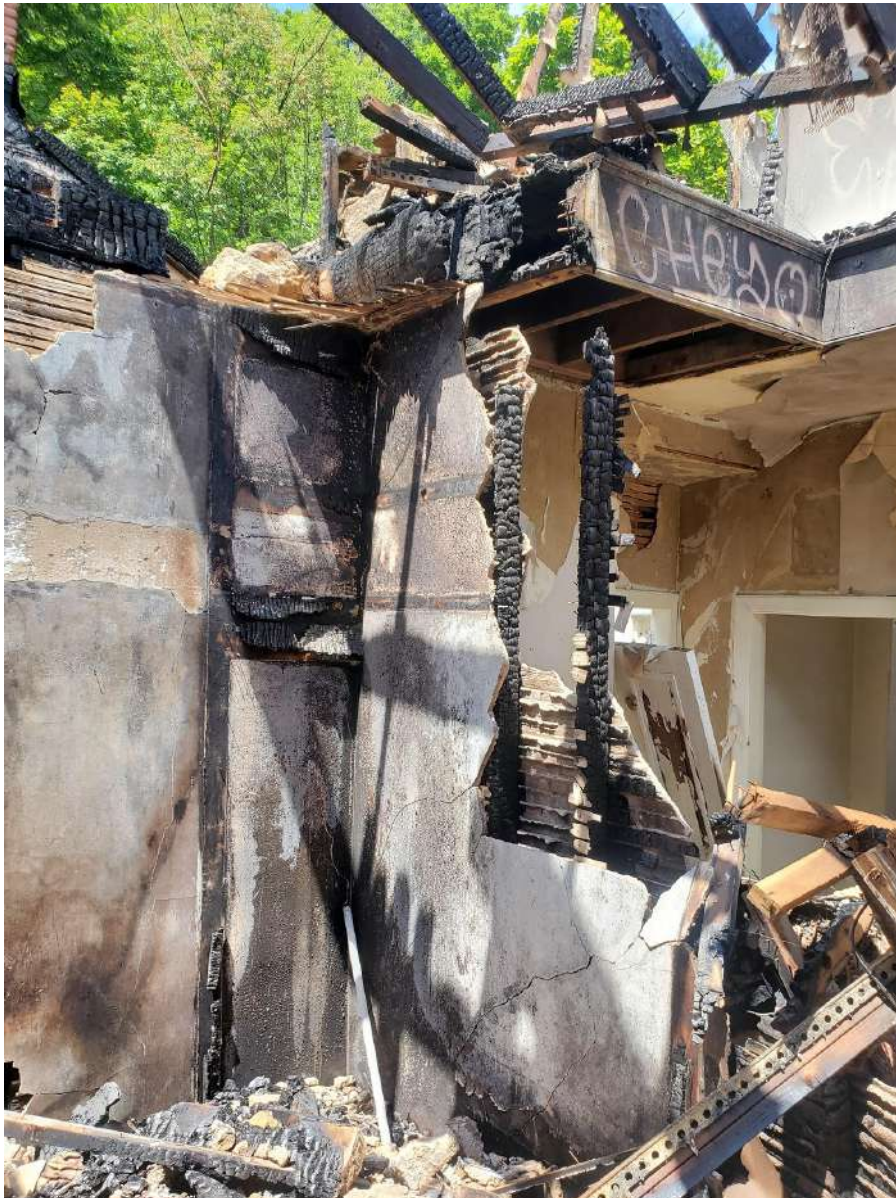
**Figure 4: Typical Condition of 2<sup>nd</sup> Floor and Roof Structure and Exterior Walls on South 2/3 of Building**





**Figure 5: Condition of Much of the Remaining Interior Structure on South 2/3 of Building**





**Figure 6: Condition of Much of the Remaining Interior Structure on South 2/3 of Building**





**Figure 7: View From Outside of Building Looking North**





**Figure 8: View From Outside of Building Looking West Showing Guttered Roof Structure to South and Fire Damage Extending Partially over North Portion of Building**



**Figure 9: Water Damage to Structure in North-most Portion of Building**