

**Woodford Castle Fire**  
Heat and Flame Vector Analysis



 Ron Hopkins, CFEL, CFPS  
TRACE Fire Protection and Safety  
Richmond, Kentucky

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**I. General**

Event: Fire  
Location: Woodford County, KY  
Time: 8:30 p.m.  
Date: May 10, 2004  
Weather: Fair  
Wind: from the SW



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**General Information**

Construction: Mixed  
Masonry  
and Stone  
Wood Frame  
Structural Steel  
Under Construction  
Occupancy: Residential  
Unoccupied at the time of the fire



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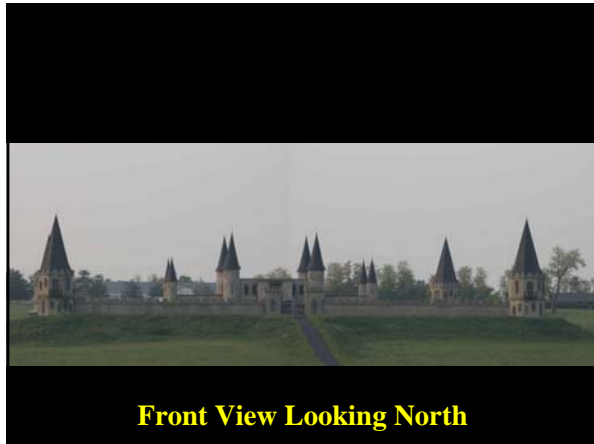
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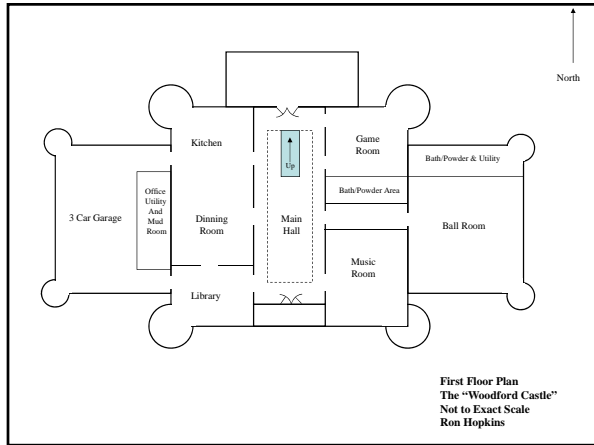
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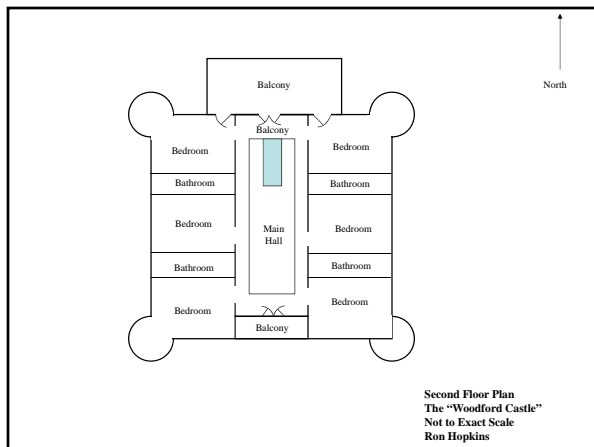
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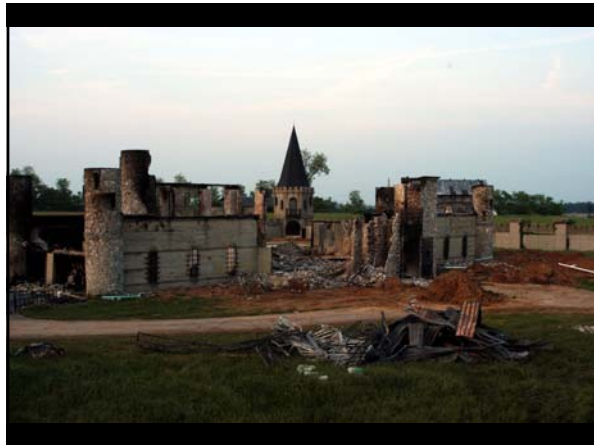
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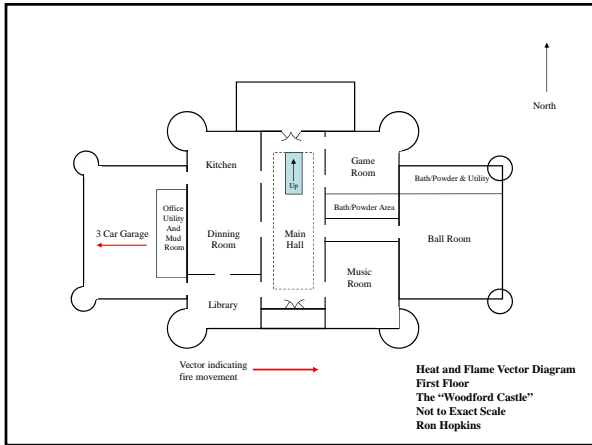
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Photograph 2: This photograph is taken from the west side of the structure, looking into the garage. Based on the condition of the structural collapse the fire moved from the door on the right side of the concrete wall, Library Area towards the west and north.

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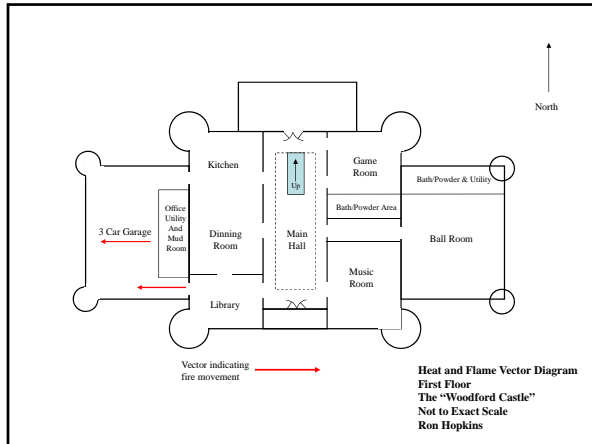
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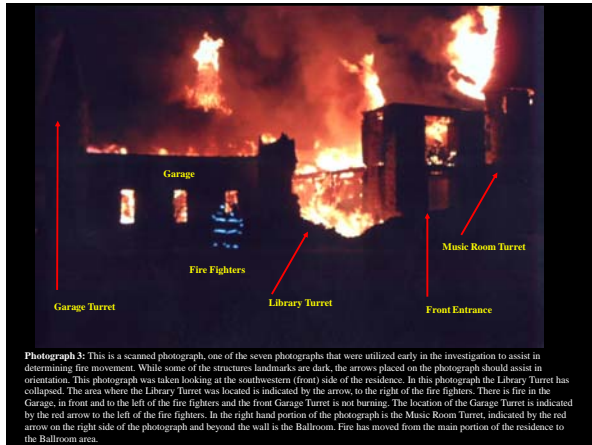
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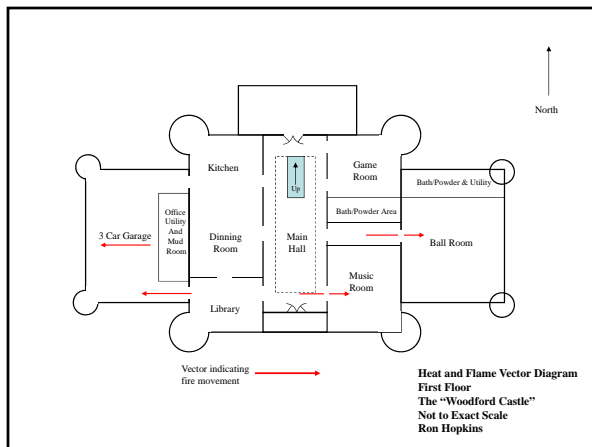
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**Photograph 4**  
This photograph is looking west from inside of the residence. The library turret would have been located to the left of the doorway in the concrete wall. The concrete wall separates the Library, Dining Room and Kitchen from the garage. The red arrow indicates the direction of fire movement.

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**Photograph 5**  
Same wall as Photograph 3, looking more to the right. The Kitchen Turret is located at the right side of the photograph. The red arrow, indicates the direction of fire movement.

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**Photograph 6:**  
Photograph 6 is looking from the from entrance towards the kitchen turret (south to north). This photograph was taken during Ron Hopkins' first visit to the fire scene as an observer after being contacted via cell phone. The after fire condition of the kitchen turret supports the fire spread theory from south to north in this area.

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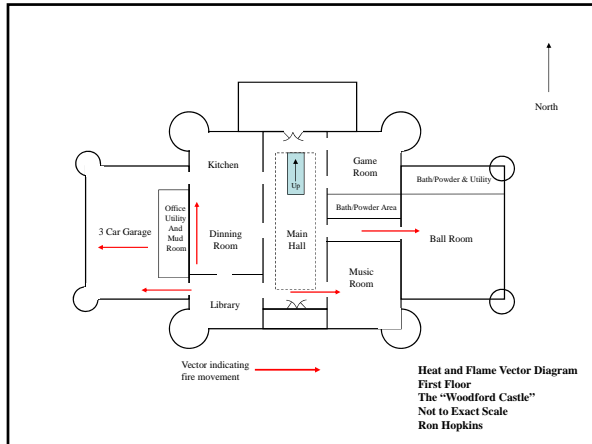
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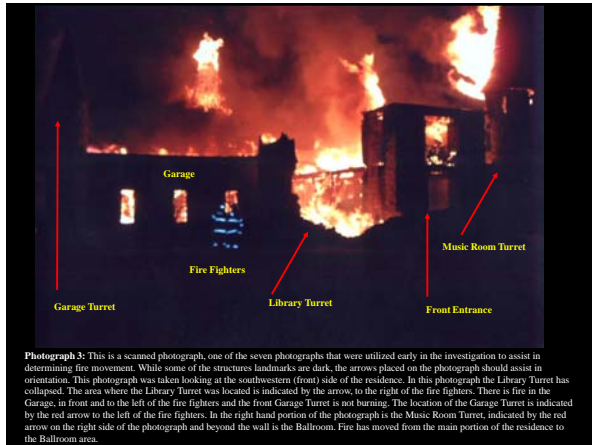
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**Photograph 3:** This is a scanned photograph, one of the seven photographs that were utilized early in the investigation to assist in determining fire movement. While some of the structures landmarks are dark, the arrows placed on the photograph should assist in orientation. This photograph was taken looking at the southwestern (front) side of the residence. In this photograph the Library Turret has collapsed. The area where the Library Turret was located is indicated by the arrow, to the right of the fire fighters. There is fire in the Garage, in front and to the left of the fire fighters and the front Garage Turret is not burning. The location of the Garage Turret is indicated by the red arrow to the left of the fire fighters. In the right hand portion of the photograph is the Music Room Turret, indicated by the red arrow on the right side of the photograph and beyond the wall is the Ballroom. Fire has moved from the main portion of the residence to the Ballroom area.

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Photograph looking from the southeast corner of the structure at the front. Photograph was taken the morning after the fire.

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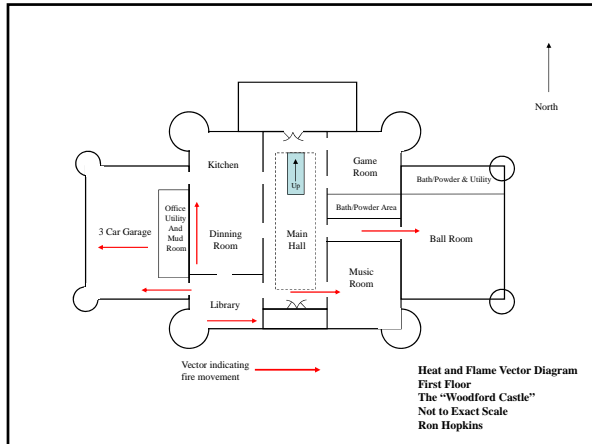
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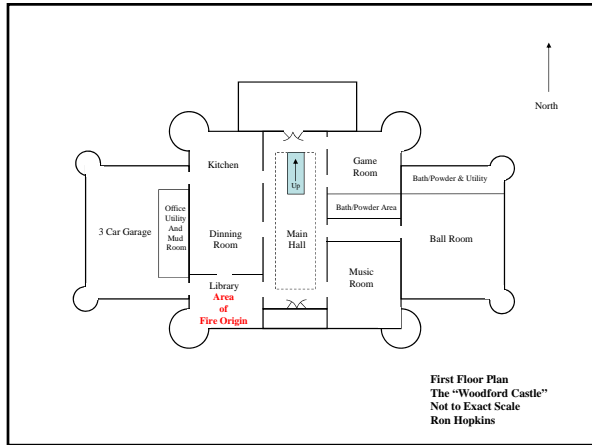
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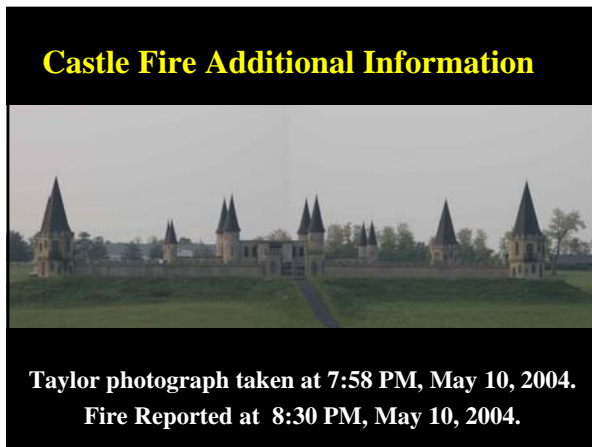
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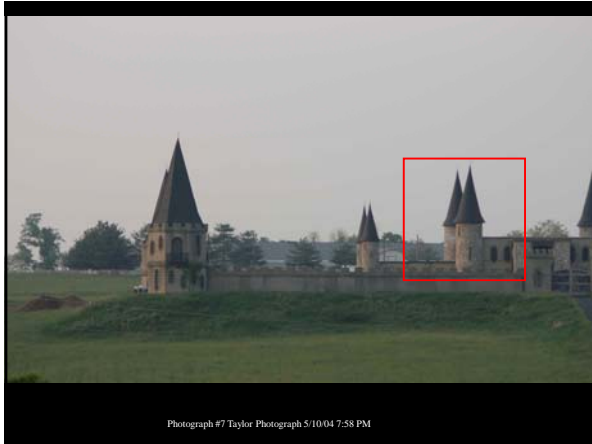
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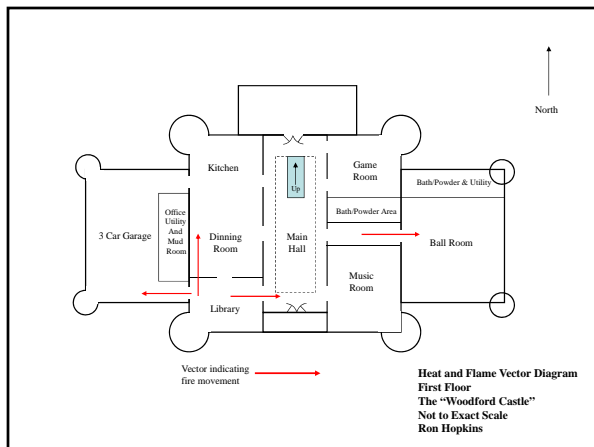
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