Building Structures--Timber Frame Buildings

Event/Date: ___________________________ Investigator: ___________________________
Short description of observation: ____________________________________________________ Date of observation: ___________________________

I. Location (please be as detailed as possible)

<table>
<thead>
<tr>
<th>Address</th>
<th>Additional Address</th>
<th>City</th>
<th>State</th>
<th>Zip</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>Street (indicate street, road, avenue, lane, etc.)</td>
<td>(room, suite, floor, etc.)</td>
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Alternative description or name: _______________________________________________________

Map Reference

<table>
<thead>
<tr>
<th>Latitude</th>
<th>Longitude</th>
<th>Direction</th>
<th>Thomas Bros. Page No.</th>
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II. Building Behavior

How many shear walls are there in the building?
Value: ___________________________

How are the shear walls placed:

☐ Unknown
☐ Symmetrically
☐ Unsymmetrically
☐ Other ___________________________

Were there failures in any of the following categories?

☐ No failures
☐ Bolting
☐ Connection eccentricities
☐ Edge distances
☐ Bearing area
☐ Split or checked material
☐ Other ___________________________

Which types of pre-existing deterioration were present in the building?

☐ None
☐ Dry Rot
☐ Pest infestation
☐ Rusted connections
☐ Other ___________________________

Did this deterioration affect building performance?

☐ Unknown
☐ Yes
☐ No

Did the design drawing details match the as-built construction?
Pay close attention to failed details.

☐ Unknown
☐ Yes
☐ Partially
☐ No

What types of connections are present?

☐ Unknown
☐ Engineered metal connectors
☐ Nailed
☐ Bolted
☐ Wood joinery
☐ Other ___________________________

How did the shear walls perform?

☐ Unknown
☐ N/A
☐ Poor
☐ Fair
☐ Good

What type of sheathing was used?

☐ Unknown
☐ Plywood
☐ OSB
☐ Gypsum wall board
☐ Straight or diagonal boards
☐ Other ___________________________

How was the sheathing connected at joints?

☐ Unknown
☐ Blocking
☐ Metal straps
☐ Other ___________________________
II. Building Behavior (cont.)

What type of sheathing fasteners are used?
- Nails
- Screws
- Other

What is the condition of the sheathing fasteners?
- Good
- Rusted
- Pulling out of wood
- Other

Did buckling, splitting or delamination of sheathing occur?
- Unknown
- Yes
- No

Were the ties, struts, chords or other members transferring concentrated loads among elements of the structure adequate?
- Unknown
- Yes
- Partially
- No

How was the structure connected to the foundation?
- Cast-in-place anchor bolts through the sill plate
- Epoxy anchor bolts through the sill plate
- Metal straps
- Other

Did the building move off its foundation or exhibit permanent story drift?
- Unknown
- Yes
- No

Sketches/Comments: