### Building Structures--Steel Moment-Resisting Frame Buildings

**Event/Date:**

**Short description of observation:**

**Investigator:**

**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>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Alternative description or name:**

__________________________________________________________________

**Map Reference**

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

### II. Building Behavior

What is the behavior of the frames as a whole?

- [ ] Unknown
- [ ] Poor
- [ ] Fair
- [ ] Good

What is the primary failure mode?

- [ ] Yielding of beams
- [ ] Yielding of columns
- [ ] Yielding of connections
- [ ] Other __________________________

Is there failure in weld regions?

- [ ] None
- [ ] Cracks
- [ ] Laminar tearing
- [ ] Laminations
- [ ] Other __________________________

Is there any buckling in the members?

- [ ] Yes
- [ ] No

What is the relative strength of beams and columns?

- [ ] Strong column/weak beam
- [ ] Strong beam/weak column
- [ ] Same

Are there failures and signs of distress at the column splices?

- [ ] Unknown
- [ ] Yes
- [ ] No

Did the nonstructural elements interact with the frame to escalate the structural damage?

- [ ] Unknown
- [ ] Yes
- [ ] No

What types of connections are present?

- [ ] Welded
- [ ] Bolted
- [ ] Riveted
- [ ] Other __________________________

Are there failures and signs of distress at the joints?

- [ ] Unknown
- [ ] Yes
- [ ] No

Are there failures and signs of distress at joint and member offsets?

- [ ] Unknown
- [ ] Yes
- [ ] No
II. Building Behavior (cont.)

Was there any tendency to develop a general plastic mode as indicated by permanent story drift?

☐ Unknown
☐ Yes
☐ No

Is there plastic hinge development in columns?

☐ Unknown
☐ Yes
☐ No

Is there plastic hinge development in beams?

☐ Unknown
☐ Yes
☐ No

How did column bases behave?

☐ Unknown
☐ Poor
☐ Fair
☐ Good

What caused failure in the column base?

☐ No failure
☐ Anchor bolt behavior
☐ Local column buckling
☐ Connection material
☐ Grout
☐ Other _______________________

Sketches/Comments: