



Building Structures--Reinforced Concrete Moment-Resisting Frame Buildings

Event/Date: _____ Investigator: _____

Short description of observation: _____ Date of observation: _____

I. Location (please be as detailed as possible)

Number	Address		Additional Address (room, suite, floor, etc.)	City	State	Zip	Country
	Street	(indicate street, road, avenue, lane, etc.)					

Alternative description or name: _____

Map Reference

Latitude	Longitude	Direction	Thomas Bros. Page No.
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II. Building Behavior

Rate the performance of the frames as a whole:

- Unknown
- Poor
- Fair
- Good

What is the primary failure mode?

- Failure of the beams
- Failure of the columns
- Failure of connections
- Soft story failure
- Other _____

How did the frames behave?

- Ductile behavior
- Brittle behavior
- Other _____

What is the general pattern of cracking?

- Axial load cracking--tension
- Axial load cracking--compression
- Shear cracking
- Diagonal tension cracking
- Spalling of concrete cover
- Other _____

What is the relative strength of the beams and columns?

- Strong column / Weak beam
- Weak column / Strong beam
- Same

What is the tie design if plans are available or bars are visible?

- Unknown
- Closed ties
- U-shaped ties with 90 degree bends
- U-shaped ties with 135 degree bends
- Other _____

What is the tie spacing?

- Less than current code
 - Approximately meets current code
- Value: _____

What is the stirrup design if plans are available or bars are visible?

- Unknown
- Closed stirrups
- U-shaped stirrups with 90 degree bends
- U-shaped stirrups with 135 degree bends
- Other _____

What is the stirrup spacing?

- Less than current code
 - Approximately meets current code
- Value: _____

What is type of splice design is present?

- No splice
- Lapped splice
- Mechanical splice
- Other _____

What is the length of the splice region?

- Less than current code
 - Approximately meets current code
- Value: _____



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II. Building Behavior (cont.)

Rate the mid-height performance of columns with reduced ties:

- N/A
- Poor
- Fair
- Good

What was the longitudinal bar splice performance in the column?

- N/A
- Poor
- Fair
- Good

How did the beams perform in shear?

- Unknown
- Poor
- Fair
- Good

Is there distress at bar cutoffs or splices in the beams?

- Unknown
- Yes
- No

Rate the performance of bottom bar anchorage at the column:

- Unknown
- Poor
- Fair
- Good

Are there failures in the joints?

- Unknown
- Yes
- No

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

- Unknown
- Yes
- No

Do the frames exhibit inelastic behavior?

- Unknown
- Yes
- No

Is there plastic hinge development in the columns?

- Unknown
- Yes
- No

Is there plastic hinge development in the beams?

- Unknown
- Yes
- No

How ductile are the moment connections?

- Not
- Limited
- Somewhat
- Very

Is there damage to the nonstructural elements?

- Unknown
- Yes
- No

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

- Unknown
- Yes
- No

Sketches/Comments: