II. Building Behavior

How many shear walls are there in the building?

Value: __________________________

Is the wall layout symmetrical/regular?

☐ Unknown
☐ Yes
☐ No

Are there any discontinuities in the walls?

☐ Unknown
☐ Yes
☐ No

Is damage focused at wall discontinuities?

☐ Unknown
☐ Yes
☐ No

What patterns exist in the shear wall damage?

☐ No damage
☐ X-shaped shear cracking in walls
☐ X-shaped shear cracking in piers between openings
☐ Cracking in spandrel beams
☐ Overturning tension cracks
☐ Crushing in compression zones
☐ Other __________________________

Is there any movement at the construction joints?

☐ Unknown
☐ Yes
☐ No

Rate the performance of the joinery between the shear walls and the diaphragms.

☐ Unknown
☐ Poor
☐ Fair
☐ Good

Rate the performance of the joinery between the diaphragms and the framing members.

☐ Unknown
☐ Poor
☐ Fair
☐ Good

Rate the performance of the joinery between the shear walls and the foundation.

☐ Unknown
☐ Poor
☐ Fair
☐ Good

Which parts of the reinforcement at wall openings were inadequate?

☐ Unknown
☐ Reinforcement was adequate
☐ No reinforcement
☐ Continuity problems
☐ Insufficient splices
☐ No bars perpendicular to corner cracking
☐ Other __________________________
II. Building Behavior (cont.)

Rate the material quality of the concrete.

☐ Unknown
☐ Poor
☐ Fair
☐ Good

Rate the material quality of the reinforcement.

☐ Unknown
☐ Poor
☐ Fair
☐ Good

Are there any problems due to poor material quality?

☐ Unknown
☐ Yes
☐ No

Is there adequate reinforcing steel in the shear wall boundary elements?

☐ Unknown
☐ Yes
☐ No

What is the orientation of the shear wall reinforcing?

☐ Unknown
☐ Vertical only
☐ Horizontal only
☐ Horizontal and Vertical
☐ Diagonal
☐ Other _______________________

Are there any post-construction modifications that lack adequate strengthening?

☐ Unknown
☐ Yes
☐ No

Is there damage to other elements due to shear wall deformation?

☐ Unknown
☐ Yes
☐ No

Sketches/Comments: