



## 4. Structural & Seismic Observations:

- a. **Framing System:**  Reinforced Concrete Frame (beams & columns) with reinforced concrete shear walls.  
 Reinforced Concrete Frame (beams & columns) with unreinforced masonry infill walls.  
 Other (explain) \_\_\_\_\_
- 
- b. **Number of stories:** \_\_\_\_\_ **and story heights:** \_\_\_\_\_ **Feet.**
- c. **Below grade structure (basement, garage, mechanical room, etc.)**  Yes  No **Explain:** \_\_\_\_\_
- d. **Porte-cocheres and carports**  Yes  No
- e. **Floor and roof construction:**  Reinforced Concrete  Steel Joists  Wood  Other (explain): \_\_\_\_\_
- Floor Slab Thickness:** \_\_\_\_\_ **mm**      **Slab connection to Walls:** \_\_\_\_\_
- f. **Approx Wall Thickness:** **Exterior Walls:** \_\_\_\_\_ **mm**      **Interior Walls:** \_\_\_\_\_ **mm**      **Height/Thickness Ratio:** \_\_\_\_\_
- Wall Construction:** \_\_\_\_\_
- (insert applicable number)      1. Concrete      2. Reinforced Masonry      3. Unreinforced Masonry      4. Other - explain
- g. **Typical Cross Section Dimensions (mm):** **Floor Beams:** \_\_\_\_\_ **x**      **Spandrel Beams:** \_\_\_\_\_ **x**      **Columns** \_\_\_\_\_ **x**
- h. **Presence of a complete load path for seismic forces.**  Yes  No
- i. **Number of shear walls parallel to front entrance.** \_\_\_\_\_  Well Distributed       Interrupted
- j. **Number of shear walls perpendicular to front entrance.** \_\_\_\_\_  Well Distributed       Interrupted
- k. **Shear walls aligned between floors.**  Yes  No
- l. **Floor Diaphragm?**  Yes  No      **Roof Diaphragm?**  Yes  No
- n. **Redundancy in the lateral force resisting system.**  Yes  No
- o. **Horizontal and vertical structural irregularities:**
- |   |  |
|---|--|
| <input type="checkbox"/> Weak or Soft Story<br><input type="checkbox"/> Short Columns<br><input type="checkbox"/> Diaphragm or Shear Wall Discontinuities | <input type="checkbox"/> Geometric Shape - L or T shape footprint<br><input type="checkbox"/> Unusual Mass Concentrations / Torsional Irregularities<br><input type="checkbox"/> Other (explain) _____ |
|---|--|

## 5. Other Building Observations:

- a. **Adjacency to other buildings - pounding/slapping potential:**  Yes  No  
**- collapse/lean potential:**  Yes  No
- b. **Presence of significant non-structural seismic hazards in and around the building.**  Yes  No
- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Loose Roof Tiles               | <input type="checkbox"/> Rooftop Tanks | <input type="checkbox"/> Window Air Conditioners |
| <input type="checkbox"/> Unsecured Mechanical Equipment | <input type="checkbox"/> Chimney       | <input type="checkbox"/> Parapets                |
| <input type="checkbox"/> Other (explain) _____          |  |  |
- c. **Number of emergency escape routes from within building:** \_\_\_\_\_ **Routes**
- d. **Presence of potential falling hazards along these routes:**  Yes  No
- e. **Proximity of the building to natural and man-made hazards:**
- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Steep Hill/Slope Site     | <input type="checkbox"/> High Perimeter Wall | <input type="checkbox"/> High Voltage Power Lines |
| <input type="checkbox"/> High Retaining Wall       | <input type="checkbox"/> Dyke/Reservoir      | <input type="checkbox"/> Water/Antenna Tower      |
| <input type="checkbox"/> Industrial/Chemical Plant |  |   |
| <input type="checkbox"/> Other (explain) _____     |  |   |

## 6. Summary of Observations:

- a. **The quality of the design and construction of the building relative to local standard of upper-end residential construction:**  Below Average  Average  Above Average
- b. **A summary of observed deficiencies:** (list & explain)
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- c. **Expected seismic performance of the building, including a prognosis of potential damage level:**
- minor damage       moderate damage       major damage       partial/total collapse
- d. **Expected life safety risk to occupants during a future earthquake:**
- low risk       moderate risk       high risk
- e. **Other observations identified by the Engineer:** (list & explain)
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- f. **Professional Opinion:**
- Structurally Sound and Seismically Safe - better than average for the local area.  
 Typical Design & Construction for the Area so expected to perform as good as most other buildings.  
 Below the average quality of local design & construction.