GUATEMALA EARTHQUAKE
February 4th, 1976

Photographs of Damaged Structures

Described in the E.E.R.I. Newsletter
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A Preliminary Report by the E.E.R.I. Reconnaissance Team
Guatemala City   Epicenter
Map showing fault break (Page 9).
Distance between Guatemala City and Epicenter - 120 km.

Fault trace through highway.

Fault offset shown by rails

Guatemala City
Cathedral Tower damage - time of earthquake

Fault offset through highway

Hillside Village showing collapsed doors and walls.

Typical slope failure at edge of barranca.
International Airport showing broken windows and minor damage. Building temporarily closed, day after earthquake.

Civic Center - modern buildings. Minimal structural damage.

Modern concrete building under construction - minor cracking.

Finance Ministry - 19 story braced steel frame (Page 24).

Catholic School showing collapsed portion of second floor.

General Hospital showing damaged infill masonry wall (Page 28).
GUATEMALA CITY

Terminal Hotel, Downtown - (Page 26).
Partial collapse of soft story. Exterior view, and view of collapsed column showing inadequate ties.

Divine Redeemer Church (Page 31).
Walls pulled in by failure of roof trusses.

Divine Redeemer Church (Page 31).
Exposed roof trusses with underslung roof. Top chord failure.
El Camino Real Hotel - (Page 26).
Showing seismic joint in RCC lattice frame.

El Camino Real Hotel - (Page 26).
Lattice frame at base partially damaged.

Warehouse and Office Building south of Guatemala City damaged by vertical fault movement - note wave in eave lines.

Office Building shown on print at left with window mullion damage and infill masonry wall cracking.
HIGHWAY BRIDGES

Periferico Bridge - (Page 31)
Some pounding evident at abutments.

Incienso Bridge -
Abutment pounding, rocker arms laid flat and bridge settled.

Agua Caliente Bridge - (Page 18).
Steel plate girder bridge.
Three center spans collapsed.

Typical freeway overpass abutment pounding evident.

Incienso Bridge showing lateral movement at abutment.

Agua Caliente Bridge showing rocker displacement.
LIQUEFACTION

LAKE ATITLAN
Slope failure at edge of lake showing swimming pool collapse.

LAKE AMATITLAN
Evidence of liquefaction and lateral movement.

LAKE AMATITLAN
Land movement due to liquefaction, water filled.

LAKE AMATITLAN
Boiled fine material due to liquefaction pressure. Gregg Brandow holding tape.
Guatemala City Filtration Plant under construction. Evidence of fault movement through site.

Filtration Plant retaining wall showing good reinforcing steel workmanship?

Later picture of same reinforced steel wall mat (as picture on left) following collapse due to aftershock in March.

University of the Valley (Page 29). Roof collapse of portion of school.