

# Existing Structure Evaluation

CTL Engineering has a diverse team of experts experienced in structural evaluation on staff. These experts encompass a variety of disciplines and can evaluate the condition of building materials at your site or in one of our laboratories, using state-of-the-art techniques and equipment.

During structural evaluations, we rely on our experts in the fields of construction, mechanical, metallurgical, geotechnical, forensic, mining and roofing engineering. We can perform in-depth material analysis in our chemical, construction materials, soils, metallurgical, or nondestructive testing laboratories. CTL Engineering also performs safety inspections and accident investigations.



Our experience includes structural evaluations of:

- ◆ **Buildings, Commercial and Residential**
- ◆ **Bridges**
- ◆ **Parking Garages**
- ◆ **Roofs**
- ◆ **Foundations**
- ◆ **Dams**
- ◆ **Pavements (Flexible & Rigid)**

The ultimate goal is to understand the causes of failure or deterioration and to provide recommendations for the necessary rehabilitation procedures.

Existing structures are evaluated using modern equipment and procedures, including:

- ◆ **Destructive and Non-Destructive Testing Methods**
- ◆ **Sonic Velocity Tests**
- ◆ **Petrographic Examinations**
- ◆ **Dynamic Properties of Materials**
- ◆ **Load Tests**
- ◆ **Strain Gauges**
- ◆ **Impact-Echo Tests**

