



## Construction Monitoring and Testing

A project's construction phase requires quality control observations and reliable testing. Building owners, architects, engineers, and contractors choose CTL Engineering for field observations, knowing that we are accurate, dependable, and perform our services in a timely manner. Our experienced engineers and technicians are your partners in construction. We help provide a finished quality product.

**CTL Engineering provides observations of the following:**

- ◆ **Earthwork, including Embankment & Foundations**
- ◆ **Reinforced Concrete**
- ◆ **Floor Flatness**
- ◆ **Roofing Systems**
- ◆ **Structural Steel**
- ◆ **Masonry**
- ◆ **Sprayed-on Fire Proofing Installation**
- ◆ **Bituminous & Portland Cement Concrete Paving**
- ◆ **Single & Multi-Story Building Structures**
- ◆ **Pavement for Airport Runways**
- ◆ **Parking Garages & Bridges**
- ◆ **Water & Wastewater Treatment Facilities & Associated Piping Systems**
- ◆ **Highways**

We perform quality control testing of the above materials and structures, in addition to destructive and nondestructive testing of finished pavements and structures.



CTL Engineering examines existing structures to evaluate potential problems. Failed structures are analyzed to determine the cause and extent of damage. We evaluate structural integrity during initial construction and at regular intervals after completion. CTL Engineering routinely evaluates metal and concrete pipes.



We perform audio/video surveys, sonic velocity testing, x-ray examinations, half-cell potential, and other destructive and nondestructive tests. CTL Engineering's technicians maintain the following certifications and/or training:

- ◆ **ACI (American Concrete Institute) Level I**
- ◆ **NICET Certification, Level I, II, III or IV**
- ◆ **Hazardous Materials Certification**
- ◆ **Confined Space Entry Training**
- ◆ **Radiation Safety Training**
- ◆ **WVDOT, ODOT, and NCDOT Certification**