

PRACTICE | at-a-glance

service highlights

- Optimization of construction materials & methods
- Implementation of high-performance construction materials
- Material testing & pre-qualification
- Metallurgical & mechanical consulting
- Nondestructive testing
- Field inspection & condition assessment
- Structural evaluation
- Failure analysis
- Structural load testing
- Service life assessment
- Repair/rehabilitation strategies

key facts

- Serving the transportation industry for more than 95 years
- Highly-trained & experienced staff
- World-class accredited laboratory facilities
- Largest private structural lab in the U.S.
- Projects in 70 countries
- Laboratories are validated by US Army Corp of Engineers

CONTACT

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CTLGroup's Transportation Practice helps clients with complex structural and materials issues in the following sectors:

- ▶ Airports
- ▶ Bridges
- ▶ Highways
- ▶ Railroads
- ▶ Seaports

CTLGroup's work spans all stages of the construction and service life cycles of a structure:

- ▶ Design: CTLGroup provides value-add services during the pre-bid and bid phases that help owners, engineers and contractors deliver optimized, reliable, standards-based Green building solutions
- ▶ Construction: CTLGroup provides critical support services that can help ensure a high-quality result, or provide expertise needed for enhancement of operations and resolution of problems or disputes
- ▶ Service Life: CTLGroup provides material and structural evaluation services needed to monitor structural health; identify modes and causes of distress, deterioration or failure; evaluate structural strength and serviceability; and develop repair solutions.

Clients turn to CTLGroup because of our broad range of expertise and services. Our staff is made up of highly trained and experienced individuals that can provide sound technical advice about material, structural and standard of care issues. Our structural and materials testing laboratory facilities are among the very best in the world. We have an unparalleled capability to not only perform tests and evaluations, but to also interpret the results and translate them into meaningful action.

REPRESENTATIVE ENGAGEMENTS

Illinois DOT Chicago to St. Louis High Speed Rail *performance testing of concrete ties and fastening systems*

LaDOTD *implementation of high-performance concrete in Louisiana bridge structures*

Bridge Street Bridge Deployment *implementation of CFRP technology in bridge structures*

Luling Bridge *condition assessment and replacement of stay cables*

Slab Track Technology *development of concrete slab support system for rails*

Denver International Airport *evaluation of runway slabs using NDT methods*

Interstate 35 West Bridge *investigation of the structural collapse*

Dumbarton Rail Corridor Improvement *evaluation of concrete caissons of the Dumbarton and Newark Slough rail bridges in the San Francisco Bay*