

John B. Turner | Senior Associate



EDUCATION

- Texas A&M University
 - Bachelor of Science, Safety Engineering, 1988
- Texas Tech University
 - Master of Science, Civil Engineering, 2004

PRACTICE AREAS

- Failure/Damage Investigation
- Repair and Rehabilitation
- Bridges
- Concrete Structures
- Wood Structures
- Structural Metals
- Structural Analysis
- Litigation Consulting
- Construction Materials and Engineering

REGISTRATIONS

- Bridge Inspection Team Leader
- Certified Safety Professional
- Commercial sUAS (drone) pilot
- NHI Course 130055 - Safety Inspection of In-Service Bridges
- Professional Engineer in TX

PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- ASTM International
- Structural Engineers Association of Texas, past chapter president and board member

CONTACT

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EXPERIENCE

John Turner investigates structural distress and evaluates conditions of existing structures. Using visual observations, nondestructive testing, document review, engineering analysis, and other techniques, Mr. Turner identifies the extent and significance of distress. His projects commonly focus on how and why structural distress has occurred and how best to restore a structure's strength and function. Mr. Turner has experience with most construction methods and materials. Drawing on his experience as a FEMA-trained disaster engineer, he provides guidance on safety and stability of buildings in the aftermath of natural and manmade disasters. His projects can begin before it is safe to enter the structure and end when the structure is back to full use. A major area of Mr. Turner's emphasis is bridge and infrastructure inspection, repair, and maintenance program management.

Mr. Turner's experience combines several years as a structural design engineer with nearly twenty years of experience in mishap investigation, failure analysis, education, industrial operations, and construction safety. As a designer, he served on design teams for schools, hospitals, warehouses, office buildings, and government facilities. Mr. Turner has worked with the steel reinforcement industry as it pursued code changes for the use of high-strength steel reinforcement and other new technologies.

REPRESENTATIVE PROJECTS

Failure/Damage Investigation

- Parking Garage - Dallas, TX: Determination of cause and litigation support for garage's partial collapse
- The Retreat Clubhouse - Cleburne, TX: Evaluation and repair of wood structure following a partial collapse
- Bank Building Facades - LA and TX: Evaluation of building facades for distress
- Warehouse and Manufacturing Facility - TX: Evaluation of elevated concrete slab to determine cause of cracking
- Building Under Construction - TX: Evaluation of two-way structural slab to determine suitability for use and propose methods for strengthening

Repair and Rehabilitation

- Dallas County Criminal Courts - Dallas, TX: Design of repairs of deteriorated structural steel frame supporting concrete walkways
- St. Andrews Episcopal Church - Farmers Branch, TX: Determination of cause of distress and design of repairs to restore the heavy timber building structure
- Adolphus Hotel - Dallas, TX: Structural evaluation and design in support of renovations to an iconic hotel originally constructed in 1911
- Condominium Building - TX: Evaluation and design of repairs of an elevated, post-tensioned slab on a lift-slab building damaged by construction

Bridges

- Routine Inspections - TX: Management of and participation in routine inspection of sixty interstate highway bridges over a two-year period
- Damage Inspections - TX: Investigation and assessment of structural condition, and repair design for municipal bridges
- City of Dallas Program Management - TX: Management of engineering services provided to the City's bridge management program
- Early 1900s Railroad Bridge - Dallas, TX: Inspection and performance of structural analysis and assessment of a rail bridge for movement and reuse

Construction Materials and Engineering

- Commercial Buildings - Dallas, TX: Construction engineering services for repair of multiple areas of distress during construction of multibuilding campus, including remediation of major foundation failure after erection of tilt-wall and steel structure
- Water and Wastewater Treatment Facilities - Multiple Locations: Investigation of and remediation design to address out-of-specification construction

TECHNICAL COMMITTEES

- ACI 117 - Specifications for Tolerances for Concrete Construction and Materials
- ACI 301 - Specifications for Concrete Construction