PERSONNEL QUALIFICATIONS

Michael W. Lee | Principal

EDUCATION

- The University of Texas at Austin
  - Bachelor of Science, Architectural Engineering, 1981
  - Master of Science, Structural Engineering, 1983

PRACTICE AREAS

- Concrete Structures
- Construction Materials
- Failure/Damage Investigations
- Litigation Consulting
- Parking Structures
- Precast/Prestressed/ Post-Tensioned Concrete
- Repair and Rehabilitation
- Structural Evaluation

REGISTRATIONS

- Professional Engineer in AR, KS, MO, NM, OK, and TX

PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Society of Civil Engineers
- Precast/Prestressed Concrete Institute
- Structural Engineers Association of Texas, past board member and past chapter president

CONTACT

mlee@wje.com
972.550.7777
www.wje.com

EXPERIENCE

Michael Lee investigates hundreds of distressed buildings, parking garages, and other structures. The distressed conditions have involved concrete deterioration, water leakage, collapse, construction deviations, and facade deterioration. Mr. Lee uses structural analyses, load tests, nondestructive testing, and laboratory studies to determine the cause and significance of the distress. He also develops drawings and specifications to repair the affected structures.

Prior to joining WJE, Mr. Lee worked at HDR (formerly W.E. Simpson) and Campbell & Associates, where he acquired fourteen years of structural design experience. At these firms, he was responsible for the analysis, design, or construction administration for over five million square feet of office, medical, parking, and educational facilities. His experience encompasses precast, post-tensioned, two-way, composite, and long-span structural systems. In addition, Mr. Lee has investigated existing structures and designed modifications, as required, by changes in occupancy and loading.

REPRESENTATIVE PROJECTS

Failure/Damage Investigations

- Football Stadium - TX: Column reinforcing bar failures during construction
- Warehouse Facility - Houston, TX: Steel-framed roof collapse during rainstorm
- Whole Foods Market - Dallas, TX: Shopping center roof collapse during lifting

Parking Structures

- Dallas County Parking Garage - Dallas, TX: Condition assessment of distress in precast, prestressed members
- JCPenney Home Office Parking Garage - Plano, TX: Evaluation of distress in precast beams, girders, and wall panels
- Metropolitan Uptown Garage - Houston, TX: Investigation of distress in concrete deck in steel-framed structure

Repair and Rehabilitation

- Cedar Hill High School Performing Arts Hall - Cedar Hill, TX: Concrete masonry unit wall repair design
- Texas Woman's University, Science Building, - Denton, TX: Analysis and design of structural modifications
- The Retreat Clubhouse - Cleburne, TX: Investigation and remediation design of wood framing

Structural Evaluation

- Automated People Mover - TX: Review of guidebeam support system
- Campbell Soup Company - Paris, TX: Review of concrete beams and foundation
- High-Mast Light Poles - Various Locations, TX: Evaluation of structural adequacy for wind loads
- State Highway 332 Bridge - Brazoria County, TX: Stability analysis of steel girders

TECHNICAL COMMITTEES

- ACI 117 - Tolerances
- ACI 437 - Strength Evaluation of Existing Concrete Structures
- ACI 440 - Fiber Reinforced Polymer Reinforcement–Sub F External Strengthening, past chair
- PCI - Parking Structures Committee
- PCI - Standards Committee
- SEAoT - Technical Code Committee
- University of Texas at Arlington - Construction Research Advisory Committee