

### Peter B. Larson | Associate Principal



#### EDUCATION

- Iowa State University
  - Bachelor of Science, Civil Engineering, 1977

#### PRACTICE AREAS

- Concrete Structures
- Failure/Damage Investigations
- Historic Preservation
- Litigation Consulting
- Masonry
- Repair and Rehabilitation
- Steel Structures
- Structural Design
- Wood Structures

#### REGISTRATIONS

- LEED Accredited Professional
- Professional Engineer in AZ, ID, MI, MO, TX, and WY
- Structural Engineers Certification Board (SECB)

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
- American Institute of Steel Construction
- American Society of Civil Engineers - Structural Engineers Institute
- International Concrete Repair Institute
- Structural Engineers Association of Texas, past state and chapter president and board member

#### CONTACT

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#### EXPERIENCE

Peter Larson joined WJE in 2017 with forty years of experience in design of building structures and structural design firm management. Mr. Larson's experience gives him an exceptional breadth and depth of knowledge in project types, building materials, structural systems, construction methods, contracts, and standards of practice. His combination of skills offers keen insight into the behavior of building materials and structures. His strong sense of aesthetics results in designs that are analytically and aesthetically direct, clean, and elegant. Mr. Larson's knowledge of contracts and practice management make him sharply aware of standards of practice and care.

Mr. Larson has significant experience in evaluation, repair, and strengthening of structures. His work includes historic preservation and work with archaic building systems.

#### REPRESENTATIVE PROJECTS

##### Concrete Structures

- Sam Houston State University, College of Osteopathic Medicine - Conroe, TX: Structural peer review of four-story concrete frame building
- 5301 Legacy Parking Garage - Plano, TX: Condition assessment and design of repairs

##### Failure/Damage Investigations

- Medical Science Building - El Paso, TX: Investigation of excessive cracking and deflections in two-way flat plate system
- Hurricane Harvey Response Team - Rockport, TX: Assessment of wind damage to school buildings and airport hangers
- Hotel Collapse - New Orleans, LA: Post-collapse failure and design investigation
- Patriot Drive Warehouse - Irving, TX: Investigation of failed bearing between two tilt-wall panels
- Flatiron Retaining Walls - Plano, TX: Post-collapse investigation, repair, and replacement of tall retaining walls
- Superior Essex - Brownwood, TX: Evaluation of fire-damaged concrete

##### Repair and Rehabilitation

- Westlake Chemical - Longview, TX: Investigation and repair of corrosion damage on concrete blast wall

- Porter Elementary - Mesquite, TX: Investigation and repair of foundation on expansive soils
- 2220 Chemsearch - Irving, TX: Evaluation and repair of foundation on expansive soils
- University of Texas Southwestern Medical Center, North Campus Bridge - Dallas: Evaluation and repair of damaged concrete rail

##### Historic Preservation

- 711 Elm Street - Dallas, TX: Evaluation and materials testing of 1925 concrete structure
- Mother Neff State Park Pavilion - Moody, TX: Evaluation of historic 1937 wood and masonry structure

##### Masonry

- Silver Gardens Senior Apartments - Dallas, TX: Investigation and repair of brick veneer
- Asbury Circle Townhomes - Addison, TX: Evaluation of brick veneer construction
- Hemingway Court Townhomes - Irving, TX: Evaluation of brick veneer construction

##### Steel Structures

- The Crossing - Dallas, TX: Investigation of floor flatness of concrete on metal deck
- Caprock Country Club - Horseshoe Bay, TX: Structural technical and constructability peer review
- Hospital - St. Louis, MO: Investigation of structural steel frame and composite steel floor system related to floor flatness and levelness

##### Structural Design

- Urban District 30 - Mesquite, TX: Technical structural peer review
- Toyota Stadium - Frisco, TX: Construction engineering of temporary foundation wall bracing

##### TECHNICAL COMMITTEES

- ACI 440 - FRP Reinforcement
- ACI 440F - FRP Repair-Strengthening
- ACI 224 - Cracking

##### AWARDS AND HONORS

- 2012 Wilbur C. Schoeller Award, Structural Engineers Association of Texas
- 2009 Honorary Member, Structural Engineers Association of Texas