



## PERSONNEL QUALIFICATIONS

### Peter B. Larson | Principal



#### EDUCATION

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

#### PRACTICE AREAS

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

#### REGISTRATIONS

- LEED Accredited Professional
- Professional Engineer in MI, MO, TX, and WY
- Structural Engineer in AZ

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
- American Institute of Steel Construction (AISC)
- American Society of Civil Engineers (ASCE) - Structural Engineers Institute (SEI)
- International Concrete Repair Institute (ICRI)
- Structural Engineers Association of Texas (SEAoT), 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 has significant experience in evaluation, repair, and strengthening of structures. His work includes historic preservation and work with archaic building systems.

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.

#### REPRESENTATIVE PROJECTS

##### Concrete Structures

- UTSW NCP6 Brain Institute and Cancer Center - Dallas, TX: Investigation of cold joint in concrete construction using nondestructive and materials evaluation methods
- 5301 Legacy Parking Garage - Plano, TX: Condition assessment and design of repairs
- Christus Health Corporate Headquarters - Irving, TX: Concrete mix investigation
- UNT Kerr Hall - Denton, TX: Detailed structural investigation and testing of ground floor slab

##### 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
- Trammell Crow Center - Dallas, TX: Structural condition assessment of underground garage

#### 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: Wind damage assessments at school buildings and airport hangers
- Hotel Collapse - New Orleans, LA: Post-collapse failure and design investigation
- 10930 Harry Hines Blvd Commercial Building - Dallas, TX: Tornado damage investigation
- 16 E. Chambers Commercial Building - Cleburne, TX: Consulting with City to stabilize partially collapsed building

#### 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
- Fort Worth ISD Central Administration Building Renovation - TX: Structural condition assessment
- Hill College Building 100 - Burleson, TX: Investigation of deteriorated concrete framing at first floor
- 4004 Medical Plaza Parking Garage Deck - Dallas, TX: Investigation and design of repairs to damaged double-tee

#### 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
- Dallas Morning News - TX: Materials testing for feasibility study of 1949 concrete building

#### 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