



#### EDUCATION

- University of Texas at Austin
  - Bachelor of Science in Civil Engineering, 1993
  - Master of Science, Structural Engineering, 1999

#### PRACTICE AREAS

- Exterior Envelope Commissioning
- Historic Preservation/Rehabilitation
- Structural Evaluation
- Bridge Engineering
- Nuclear Facilities
- Litigation Consulting

#### REGISTRATIONS

- Professional Engineer in AL, AR, AZ, CO, FL, ID, KS, LA, MO, NM, OH, OK, and TX
- AWS Certified Welding Inspector

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute, Fellow
- American Welding Society
- Association for Preservation Technology
- International Concrete Repair Institute

#### CONTACT

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#### EXPERIENCE

Carl Larosche joined WJE in 2004 with more than twenty years of experience specializing in consulting services for the preservation and restoration of historic and existing structures. In addition to his preservation work, Mr. Larosche has extensive experience in building envelope, including traditional building materials as well as current state-of-the-art materials.

Prior to WJE, Mr. Larosche was a Principal of Sparks, Larosche & Associates and worked for The Texas Department of Transportation (TxDOT). Mr. Larosche's diverse background includes structural design, investigation, and evaluation of existing structures and materials. He has successfully combined his broad construction background with his knowledge of material behavior in existing structures to provide rare insight and knowledge in the area of masonry, concrete, and steel evaluation, including strengthening and repair of these materials.

#### REPRESENTATIVE PROJECTS

##### Exterior Envelope Commissioning

- University of Texas at Austin, Liberal Arts Building - TX: Building Envelope Commissioning services, including review of design drawings and specifications and functional performance testing in the form of air/water infiltration testing at windows and curtain walls

##### Historic Preservation/Rehabilitation

- Circa 1898 Lee County Courthouse - Giddings, TX: Comprehensive assessment and repair design to address settlement-related distress
- University of Texas at Austin, Lyndon Baines Johnson Presidential Library - TX: Comprehensive assessment, investigation, instrumentation, and restoration design for the building's tenth floor, terraces, and plaza

##### Structural Evaluation

- Port of Houston Authority - Houston, TX: Condition assessment and repair recommendations for wharf structures

- Palo Verde Nuclear Power Plant and Water Reclamation Facility - Tonopah, AZ  
Condition assessment for large waste water treatment plant, including a comprehensive assessment and repair plan

##### Bridge Engineering

- Bridge Lift at SH 190 and Brand Road - Dallas, TX: Design and consultation with Dallas District Office of TxDOT in raising and sliding multispan bridge back to original location\*
- National Highway Institute: Lead instructor and project manager for the bridge maintenance course taught to various state DOTs on behalf of the Federal Highway Administration

##### Nuclear Facilities

- Seabrook Station - Seabrook, NH: Condition assessment of concrete distress in the protected area of the reinforced concrete walls; distress included spalling and cracking in RHR equipment vaults; inspection was conducted in accordance with ACI 349.3R-02
- Calvert Cliffs Nuclear Plant - Lusby, MD: Assessment of conventionally cast concrete walls and pilasters; work included development of repair procedures to address voids and honeycombing and construction observations to ensure contract document compliance

*\*Indicates with previous firms*

##### TECHNICAL COMMITTEES

- ACI 437 - Strength Evaluation of Existing Concrete Structures
- ACI E702 - Designing Concrete Structures
- ACI 349/359 - Concrete Nuclear Structures, secretary
- ACI 562 - Evaluation, Repair, and Rehabilitation of Concrete Buildings, subcommittee chair
- ACI 563 - Specifications for Repair of Structural Concrete in Buildings
- AWS D1.7 - Strengthening and Repair of Existing Structures
- ACI Technical Activities Committee (TAC)