

Carl J. Larosche | Senior Principal



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

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

PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI), Fellow
- American Welding Society (AWS)
- Association for Preservation Technology International (APT)
- International Concrete Repair Institute (ICRI)

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 envelopes, including traditional building materials, as well as current state-of-the-art materials.

Prior to joining WJE, Mr. Larosche was a principal at 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 materials behavior in existing structures to provide rare insight and knowledge in the areas 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: 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

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

Structural Evaluation

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

- Palo Verde Nuclear Power Plant and Water Reclamation Facility - Tonopah, AZ: Condition assessment for large wastewater 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

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
- ACI Technical Activities Committee (TAC)
- AWS D1.7 - Strengthening and Repair of Existing Structures

* Work prior to WJE