



#### EDUCATION

- Loyola Marymount University
  - Bachelor of Science, Mechanical Engineering, 2010
- The University of Texas at Austin
  - Master of Science, Architectural Engineering, 2012

#### PRACTICE AREAS

- Concrete Structures
- Nondestructive Evaluation
- Wood Structure Assessment
- Structural Analysis
- Roofing and Waterproofing
- Failure/Damage Investigations

#### REGISTRATIONS

- Civil Engineer in CA
- Professional Engineer in CO

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Society of Civil Engineers

#### CONTACT

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#### EXPERIENCE

Since joining WJE in 2012, Adrienne Larson has worked on a variety of projects, including concrete facade inspections, water intrusion investigations, condition surveys, construction document preparation, and historic preservation as well as nondestructive testing investigations for existing, historic, and new construction buildings and structures.

Prior to joining WJE, Ms. Larson studied Construction Engineering and Project Management at the University of Texas at Austin. She uses this experience for the preparation of construction documents as well as the repair and rehabilitation design of structures.

#### REPRESENTATIVE PROJECTS

##### Concrete Structures

- Folsom Auxiliary Spillway - Folsom, CA; Inspection and construction observation during concrete repairs of cast-in-place bearing plates for radial arm floodgates
- Hotel Parking Garage - Santa Monica, CA: Repair design and construction administration for unbonded post-tensioned concrete garage structure with pool chlorine-related corrosion
- University of California, San Diego, Altman Clinical and Translational Research Institute - Quality control inspection for epoxy injection of concrete facade cracks
- Beverly Wilshire Hotel - Los Angeles, CA: Investigation and repair of historic concrete and masonry facades and balconies
- Santa Ana Federal Courthouse - Santa Ana, CA: Investigation and repair of deteriorated precast architectural concrete facade panels
- John Anson Ford Amphitheatre - Los Angeles, CA: Historic concrete repair documents and construction observation

##### Nondestructive Evaluation

- State Route 2 Tunnel Fire - Los Angeles, CA: Condition assessment of fire-damaged concrete underpass using impact echo and ultrasonic pulse velocity (UPV) techniques
- Scripps Cardiovascular Institute - La Jolla, CA: Condition assessment of water storage tank foundation using UPV techniques

- Port of Long Beach Middle Harbor Expansion - CA: Condition assessment of cast-in-place wharf exhibiting signs of distress using MIRA ultrasonic tomographer
- Port of Long Beach Middle Harbor Expansion - CA: Development and implementation of instrumentation to evaluate offshore pile inclination

##### Wood Structure Assessment

- The Knolls Apartment Complex - Thousand Oaks, CA: Condition assessment and design of repairs for forty wood framed apartment buildings with failed waterproofing and associated wood deterioration
- Park Del Amo Apartments - Lakewood, CA: Structural assessment and evaluation of elevated pedestrian walkways

##### Structural Analysis

- Major Retail Chain - Nationwide: Field inspection and analysis of roof structural system for construction defects
- Aloha Stadium - Honolulu, HI: Seismic and wind structural safety review of existing stadium; design of structural upgrades

##### Roofing and Waterproofing

- Anaheim Regional Transportation Intermodal Center - Anaheim, CA: Quality assurance and water testing for installation of ethylene tetrafluoroethylene (ETFE) building enclosure system
- Wilshire La Brea - Los Angeles, CA: Assessment and monitoring of built-up roofing system installation
- Business Arts Plaza - Burbank, CA: Assessment and repair of building envelope and plaza deck waterproofing system
- The Lofts at NoHo Commons - North Hollywood, CA: Water intrusion investigation, repair documents, and construction observation