



PERSONNEL QUALIFICATIONS

Mark R. Chauvin | Associate Principal and Unit Manager



EDUCATION

- University of Minnesota
 - Bachelor of Civil Engineering, 1997
 - Master of Science, Structural Engineering, 1999

PRACTICE AREAS

- Failure/Damage Investigation
- Concrete Structures
- Building Science
- Bridges and Civil Infrastructure
- Litigation Consulting
- Structural Metals
- Corrosion

REGISTRATIONS

- Professional Engineer in IA, KS, MI, MN, NE, and ND

CONTACT

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EXPERIENCE

Mark Chauvin joined WJE in 1999 and has significant experience with forensic investigations of architectural and structural problems with buildings and bridges. He has been engaged with inspection, analysis, and repair of structural capacity issues, deterioration, distress, or failure of wood, concrete, masonry, and steel systems, including multiple collapse investigations. Mr. Chauvin has also performed investigations of performance problems related to building enclosures, including metal panel and masonry facades, EIFS and stucco claddings, and roofing and waterproofing systems.

In addition to his project work, Mr. Chauvin has conducted research to assess the effectiveness of several corrosion mitigation strategies implemented on a chloride-contaminated reinforced concrete bridge in Minneapolis.

REPRESENTATIVE PROJECTS

Failure/Damage Investigation

- I-35W Bridge - Minneapolis, MN: Investigation of collapse
- Hospital - Grand Forks, ND: Investigation of steel connection fracture during construction
- Heritage Lutheran Church - Apple Valley, MN: Investigation of roof collapse
- International Nutrition - Omaha, NE: Investigation of building collapse
- Mining Facility - Silver Bay, MN: Investigation of suspended slab failure
- Quality Time Lanes - Independence, KS: Investigation of roof collapse
- St. Mary's University - Winona, MN: Evaluation of Sheffield tile floor structures
- Thumper Pond Resort - Ottertail, MN: Investigation of roof collapse

Concrete Structures

- Central Ethanol Co-Op - Little Falls, MN: Assessment of fire damage to concrete silo
- Cold Spring Brewery - Cold Spring, MN: Investigation of concrete digester wall failure
- Minneapolis-Saint Paul International Airport, Silver Ramp - MN: Investigation of slab ponding and PT beam distress issues
- Red Star Yeast - Cedar Rapids, IA: Investigation of concrete anchorage failures
- US Naval Facility - Quantico, VA: Investigation and repair of concrete digester

Building Science

- US Bank Stadium - Minneapolis, MN: Exterior enclosure consulting
- Academy of Holy Angels - Richfield, MN: Roof replacement design and construction observations
- Courtyard by Marriott - Lincoln, NE: Investigation of leakage and condensation
- La Quinta Inn and Suites - Bloomington, MN: Investigation of stucco cladding failure
- Lincoln Borglum Visitor Center, Mount Rushmore - Keystone, SD: Investigation of granite facade distress
- Minnesota Public Radio - St. Paul: Assessment of metal panel facade issues
- Metropolitan Opera House - New York, NY: Inspection of travertine facade distress
- Washington County Government Center - Stillwater, MN: Repair of exterior envelope
- Winona State University - Winona, MN: Investigation and repair of tunnel leakage

Bridges and Civil Infrastructure

- Columbia Heights Filter Plant - Minneapolis, MN: Assessment of exterior wall distress
- Grand Forks Water Treatment Facility - Grand Forks, ND: Investigation of concrete cracking
- Lowry Avenue Bridge - Minneapolis, MN: Instrumentation and monitoring of pier movement
- Martin Olav Sabo Pedestrian Bridge - Minneapolis, MN: Evaluation and repair of stay-cable failures
- Minnesota Bridge 02037 - Coon Rapids: Inspection, regrouting, and corrosion monitoring of post-tensioned tendons
- Minnesota Bridge 27099 - Minneapolis: Condition assessment and service life analysis
- Northwest Water Treatment Facility - Wichita, KS: Investigation of concrete cracking issues
- Penn Avenue Bridge over Minnehaha Creek - Minneapolis, MN: Condition assessment and repair recommendations
- Union Depot - St. Paul, MN: Condition assessment and repair design of train deck
- Third Avenue Bridge - Minneapolis, MN: Condition assessment and repair design
- Washburn Park Water Tower - Minneapolis, MN: Condition assessment and repair design
- Washington Avenue Bridge - Minneapolis, MN: Instrumentation and monitoring of concrete abutment distress and load rating of pedestrian level