



PERSONNEL QUALIFICATIONS

Elise M. Love | Senior Associate



EDUCATION

- Michigan Technological University
 - Bachelor of Science, Civil Engineering, 2007
 - Master of Science, Civil Engineering, 2009

PRACTICE AREAS

- Failure/Damage Investigations
- Building Enclosure Commissioning/Consulting/Testing
- Roofing and Waterproofing
- Prepurchase Surveys
- Litigation Consulting
- Masonry
- Bridges and Civil Infrastructure

REGISTRATIONS

- NHI Course 130055 - Safety Inspection of In-Service Bridges
- Professional Engineer in MI and OH
- Registered Roof Consultant

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE)
- Construction Specifications Institute (CSI) - Metropolitan Detroit Chapter, board member
- IIBEC
- Structural Engineering Institute (SEI)

CONTACT

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EXPERIENCE

Elise Love joined WJE in 2009 and has since been involved in a diverse range of projects, including the investigation, analysis, and repair of existing structures and the building enclosure. Ms. Love's project experience includes failure and damage assessments of existing wood, steel, aluminum, reinforced concrete, and concrete masonry structures; repair and rehabilitation design for existing wood, reinforced concrete, and concrete masonry structures. She also has expertise in building enclosure commissioning, consulting, and testing services; roofing and waterproofing assessment/repair design; condition and prepurchase assessments; peer reviews; water infiltration assessments; and weld inspections for open-web steel joists. Ms. Love also conducts assessments of in situ concrete slab-on-ground cracking; performs construction period building monitoring; provides construction and design-related litigation consulting; and performs structural/safety inspection of bridges.

REPRESENTATIVE PROJECTS

Failure/Damage Investigations

- Indoor Practice Facility - Ypsilanti, MI: Assessment of air-supported structure (dome) collapse
- Lake Local Schools - Millbury, OH: Structural assessment of structural steel and masonry elements of storm-damaged structures
- Various Residential Structures - Dexter, MI: Assessment/repair design for structural tornado damage in wood-framed structures
- Pontiac Silverdome Stage - Pontiac, MI: Assessment of temporary aluminum stage roof structure collapse
- Stony Creek Apartments - Washington Township, MI: Assessment and repair design of fire-damaged wood trusses
- Career Technology Center - Monroe, MI: Cracking assessment in concrete slab-on-ground
- McKinley Taylor Properties - Taylor, MI: Structural condition assessment of corroded structural steel substructure in crawl spaces

Building Enclosure

Commissioning/Consulting/Testing

- Sparrow Headquarters - Lansing, MI: Peer review and building envelope consulting services

- Auto Owners Insurance Headquarters - Lansing, MI: Peer review, building enclosure testing, and construction period quality control services
- Toyota PD Building - Saline, MI: Peer review and roofing consulting services
- National Headquarters Building - Lansing, MI: Investigation of water infiltration at windows, curtain walls, and masonry walls

Roofing and Waterproofing

- Big Buck Brewery - Gaylord, MI: Metal roofing damage assessment
- University of Michigan - Ann Arbor, MI: Zinc roofing failure investigation and laboratory analysis
- Lakeview Middle School - Battle Creek, MI: Assessment of cause of single-ply roofing damage

Prepurchase Surveys

- 6435 Hix Road - Westland, MI: Prepurchase property condition assessment
- Walker Plants - Novi, MI: Assessment of architectural and structural building/property damage and tenant changes

Litigation Consulting

- Medical Facility - Grand Rapids, MI: Litigation consulting for construction and design-related building envelope issues
- Gratiot Shopping Center - Saginaw, MI: Litigation-related code consulting regarding structural repairs following partial roof collapse

Masonry

- East Hall - Ann Arbor, MI: Historic terra cotta and brick masonry assessment and restoration
- Hill Auditorium - Ann Arbor, MI: Historic terra cotta cornice and brick masonry restoration

Bridges and Civil Infrastructure

- Illinois Department of Transportation - Cook and Will Counties, IL: Safety inspection and member force analysis for steel bascule bridges
- US-34 Bridge over the Missouri River - Mills County, IA and Sarpy County, NE: Initial safety inspection for concrete and steel bridge