

### Ross J. Smith | Associate Principal



#### EDUCATION

- University of Michigan
  - Bachelor of Science in Engineering, Civil and Environmental Engineering, 2000
  - Master of Science in Engineering, Civil (Structural) Engineering, 2001

#### PRACTICE AREAS

- Building Enclosure Commissioning (BECx)
- Structural Design
- Repair and Rehabilitation
- Failure/Damage Investigations
- Facade Assessment
- Roofing and Waterproofing
- Peer Review
- Litigation Consulting

#### REGISTRATIONS

- Professional Engineer in MI, IN, and PA
- LEED Accredited Professional, BD+C
- Certified Construction Documents Technologist (CDT)

#### CONTACT

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#### EXPERIENCE

Ross Smith is experienced in structural evaluation, building enclosure commissioning, unique failure investigations, repair design, and construction quality control. His work also includes structural and architectural failures related to water infiltration, fire, wind, snow, condensation and material failures. Mr. Smith also specializes in full-building condition surveys, coordinating multiple engineering disciplines for a comprehensive analysis and then assisting owners in developing and administering asset management systems.

Mr. Smith is also experienced in new building design, sustainable construction, peer reviews, and litigation assistance.

#### REPRESENTATIVE PROJECTS

##### Building Enclosure Commissioning (BECx)

- VA Outpatient Clinic - Wyoming, MI: Peer review and construction observation
- Sparrow Ionia Hospital - Ionia, MI: Peer review and construction observation, Performance Testing
- Toyota PD Building - Ypsilanti, MI - Roof peer review and commissioning
- OSF St. Joseph Medical Center - Bloomington, IL: Waterproofing peer review, supplemental detail development, and field verification testing

##### Structural Design

- University of Notre Dame - Hesburgh Library - South Bend, IN - Renovation structural peer review and shoring design.
- University of Notre Dame, Joyce Athletic and Convocation Center - South Bend, IN: Code review and repair design for suspended catwalk in basketball arena
- Landfill Gas Reclamation Facilities - MI, PA: New design and structural rehabilitation and retrofit for engine mounting and exhaust stack support

##### Repair and Rehabilitation

- University of Michigan, C.C. Little - Ann Arbor, MI: Limestone and brick masonry deterioration - Investigation, water testing, repair design and construction oversight
- McKay Tower - Grand Rapids, MI: Full-building condition assessment including terra cotta and granite rehabilitation

- Multiple Urban High-Rises - Chicago, IL, St. Louis, MO, Grand Rapids, MI - Investigation of thin-stone granite, masonry, terra cotta, limestone, and metal/glass cladding systems
- Grand Rapids Public Museum, VAMC - MI: Roof and facade inspections, repairs, and recommissioning
- Grand Rapids Public Schools - MI: Various roofing and facade repair and rehabilitation projects

#### Failure/Damage Investigations

- Fire, tornado/high wind, snow, and flood related building damage/collapse investigations; and repair design drawings
- Indoor Tennis Facility - Muskegon, MI: Fabric structure failure investigation
- Municipal Water Main - Holland, MI: Investigation and litigation support for failure and building collapse
- Steel Foundry - Bremen, IN: Channel induction furnace core failure investigation
- Marina - Muskegon, MI: Floating wave attenuation system damage investigation

#### Roofing and Waterproofing

- Bankers Life Fieldhouse - Indianapolis, IN: Rappelling-assisted field investigation, repair drawings, and specifications
- City of Grand Rapids - MI: Roofing inspection, asset rating, and budgeting of more than twenty city-owned and managed facilities

#### Litigation Consulting

- University of Michigan Football Stadium - Ann Arbor, MI: Structure recoating construction claim support
- Library of Congress, NAVCC - Culpepper, VA: Architectural peer review, detail redesign, construction administration, and litigation documentation support

#### AWARDS

- Michigan Society of Professional Engineers (MSPE), Western Chapter, Young Engineer of the Year, 2009
- Structural Engineering Association of Michigan (SEAMi), Western Michigan Chapter, Young Structural Engineer of the Year, 2009