

### Andrew J. Lobbestael | Senior Associate



#### EDUCATION

- Lawrence Technological University
  - Bachelor of Science, Architecture, 2010
  - Bachelor of Science, Civil Engineering, 2010
  - Master of Civil Engineering, 2014

#### PRACTICE AREAS

- Repair and Rehabilitation Design
- Structural Evaluation
- Masonry Structures
- Damage Assessment and Documentation
- Testing and Instrumentation
- Failure Investigation
- Facade Assessment

#### REGISTRATIONS

- Professional Engineer in MI

#### CONTACT

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#### EXPERIENCE

Since joining WJE in 2007, Andrew Lobbestael has been involved with numerous projects related to structural engineering and architecture. His typical responsibilities include the investigation and analysis of existing and damaged structures, nondestructive evaluation of concrete, development of repair and rehabilitation documents, and construction observations. He has performed various structural analyses on steel, concrete, masonry, and wood. Mr. Lobbestael has assisted with investigations of several structural failures and has performed numerous water infiltration investigations.

Additionally, he has performed construction vibration monitoring and performed vibration-related damage assessments. Prior to joining WJE, Mr. Lobbestael performed construction materials testing for the Mannik & Smith Group, including concrete compressive strength tests and soil properties testing.

#### REPRESENTATIVE PROJECTS

##### Repair and Rehabilitation Design

- 411 West Lafayette - Detroit, MI: Waterproofing, post-tensioning, and traffic bearing membrane repairs
- Bon Secours Hospital - Grosse Pointe Farms, MI: Masonry wall investigation and repair design with construction drawings
- Main North Lofts - Royal Oak, MI: Construction documents for concrete overlay repair

##### Structural Evaluation

- Karas House Catering - Redford, MI: Bowstring truss failure investigation, analysis, and litigation support
- Materials Processing Warehouse - Riverview, MI: Roof collapse investigation, analysis, and litigation support
- Pine Tower - Bay City, MI: Assessment of precast concrete columns and estimate of remaining service life

##### Masonry Structures

- Trotter House - Ann Arbor, MI: Condition assessment, repair documentation development, and construction period services on a historic masonry building
- Hill Auditorium - Ann Arbor, MI: Repair document development and construction period services for a terra cotta cornice restoration
- St. Thomas the Apostle - Ann Arbor, MI: Water infiltration investigation of stone masonry building, repair document development, and construction period services during masonry repairs

##### Damage Assessment and Documentation

- Adair Printing - Dexter, MI: Assessment of roofing and roof framing damage caused by tornado
- Best Textiles - Warren, MI: Assessment of reported structural damage at multiple residences caused by natural gas explosion
- Carlyle Place Apartments - Clinton Township, MI: Use of ground penetrating radar (GPR) to assess extent of voiding beneath slab from water main break
- Lake Local Schools - Lake, OH: Assessment of structural damage at multiple buildings caused by tornado

##### Testing and Instrumentation

- Fox Theater Parking Structure - Detroit, MI: Use of GPR to nondestructively locate prestressing strands during concrete repair project
- Temple Beth El - Bloomfield Hills, MI: Load-tested fall arrest anchorages
- Tienken Road Bridge Replacement - Rochester Hills, MI: Remote monitoring of construction vibrations using engineering seismographs

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute - Greater Michigan Chapter
- Association for Preservation Technology - Eastern Great Lakes Chapter
- International Concrete Repair Institute