

Delaney Lewis | Associate II



EDUCATION

- Purdue University
 - Bachelor of Science, Civil Engineering, 2022
 - Master of Science, Structural Engineering, 2023

PRACTICE AREAS

- Structural Design
- Structural Evaluation
- Failure/Damage Investigations
- Repair and Rehabilitation
- Condition Assessment
- Instrumentation/Monitoring/Load Testing

PROFESSIONAL AFFILIATIONS

- Association for Preservation Technology - Northeast Chapter
- Structural Engineers Association of Massachusetts

CONTACT

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EXPERIENCE

Delaney Lewis is engaged in various investigations, analysis projects, and repair designs for existing concrete and steel structures. She has worked on numerous structures, including office and residential high-rise buildings, parking structures, and industrial facilities. Ms. Lewis's projects have included evaluating and investigating existing buildings, designing repairs and retrofits, developing construction documents, and performing construction observations.

REPRESENTATIVE PROJECTS

Structural Design

- Timber-Framed Apartment Building - Chicago, IL: Condition assessment and design of supplemental steel to support overstressed timber columns
- Wausau Paper Mill - Middleton, OH: Design of stay-in-place steel shoring to support deteriorated two-way concrete slabs

Structural Evaluation

- Warehouse, Automated Storage and Retrieval System Racks - IL: Evaluation of steel racks under excessive slab deflections
- Federal Reserve Bank - MI: Evaluation of composite concrete-filled metal deck

Failure/Damage Investigations

- Precast Parking Garage - Chicago, IL: Failure investigation of welded steel connections during construction
- Bus Depot - Boston, MA: Investigation of root cause of debonded traffic membrane; repair recommendations
- Bridge Deck - Chelsea, MA: Failure investigation of spray-applied waterproofing membrane; nondestructive and destructive testing

Repair and Rehabilitation

- 200 Berkeley Street - Boston, MA: Construction administration services for sandstone facade repairs for twenty-six-story office building
- 200 Berkeley Beacon - Boston, MA: Development of repair drawings and construction administration services for stainless steel weather beacon
- 10 Temple Place - Boston, MA: Development of repair drawings and construction administration services for limestone facade repairs at eleven-story apartment building
- University of Massachusetts, Buildings E23 and E25 - Cambridge: Construction administration services for brick masonry facade repairs at four-story academic building
- 705 Mount Auburn Parking Garage - Watertown, MA: Condition assessment and development of repair drawings for concrete parking garage with metal panels
- Sheraton Parking Garage - Boston, MA: Condition assessment
- Park Lane Parking Garage - Boston, MA: Condition assessment and review of concrete repairs and traffic membrane installation
- Harbor Towers - Boston, MA: Construction administration services for concrete facade repairs at forty-story residential building
- The Clare - Chicago, IL: Construction period services for concrete facade repairs at fifty-three-story apartment building

Condition Assessment

- Massachusetts College of Art and Design - Boston: Facade condition assessment of curtain wall, storefront, and brick veneer facade
- Purdue University, Bell Tower - West Lafayette, IN: Review of corrosion of structural steel frame

Instrumentation/Monitoring/Load Testing

- Manufacturing Plant - NH: Strain gauge instrumentation and monitoring of existing structural members