

### Timothy A. Gregor | Senior Associate



#### EDUCATION

- Brown University
  - Bachelor of Science, Civil Engineering, 2008
- University of Illinois at Urbana-Champaign
  - Master of Science, Structural Engineering, 2011

#### PRACTICE AREAS

- Repair and Rehabilitation
- Structural Analysis
- Concrete Structures
- Steel Structures
- Parking Structures
- Plazas and Terraces
- Roofing and Waterproofing

#### REGISTRATIONS

- Professional Engineer in IN, WI, and WV
- Structural Engineer in HI and IL

#### PROFESSIONAL AFFILIATIONS

- Post-Tensioning Institute (PTI)

#### TECHNICAL COMMITTEES

- PTI DC-25: Parking Structure Committee, associate member
- PTI DC-80: Repair, Rehabilitation, and Strengthening Committee

#### CONTACT

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#### EXPERIENCE

Timothy Gregor specializes in the repair and rehabilitation of concrete structures including prestressed, post-tensioned, and conventionally reinforced concrete. His experience also includes condition assessments, repair design, and construction observation services related to wood and steel structures. In addition, Mr. Gregor has been involved in the load testing of multiple structures.

Prior to joining WJE and as a doctoral student at the University of Illinois at Urbana-Champaign, Mr. Gregor studied the seismic application of bracing steel-frame structures with reinforced concrete masonry panels through experimental tests and computational system analyses. He designed, oversaw construction of, instrumented, and tested large-scale specimens. Mr. Gregor used the experimental data to calibrate analytical models that evaluated the selection of seismic design parameters for a new structural system.

#### REPRESENTATIVE PROJECTS

##### Repair and Rehabilitation

- Miami Marine Stadium - FL: Condition assessment and repair recommendations for historic concrete stadium
- Commercial Garage - Milwaukee, WI: Structural analysis of existing conditions and proposed repairs for precast/prestressed parking structure that experienced movement due to adjacent construction and connection failure from construction deficiencies
- 222 S. Riverside Plaza - Chicago, IL: Evaluation of structural deterioration, analysis of structural members for new loading, and repair designs for composite steel-frame plaza over active Amtrak rail lines

##### Concrete Structures

- Hospital Garage - Park Ridge, IL: Multiyear condition assessment and repair of three-story post-tensioned concrete parking garage
- O'Hare Elevated Parking Structure - Chicago, IL: Condition assessment and repair of six-story structure composed of button-headed post-tensioned concrete with 3,100,000 square feet of parking

- One Oakbrook Terrace - IL: Condition assessment and repair of two-story post-tensioned concrete parking garage
- City Center - Oshkosh, WI: Condition assessment and repair of three-story structure composed of precast, post-tensioned, and conventionally reinforced framing with 430,000 square feet of parking above occupied space

##### Steel Structures

- ASARCO Processing Facility - Kearny, AZ: Design and oversight of structural steel roof truss repairs to address damage caused by excessive differential settlement
- Baxter Headquarters Parking Garages - Deerfield, IL: Condition assessment, structural evaluation, and repair of steel-framed and precast/prestressed parking garages
- Scoreboard - Chicago, IL: Analysis of existing structural steel framing and design of strengthening to support new outdoor scoreboard for a major sport stadium
- Chase Tower Storefront Replacement, Vaulted Sidewalk Repairs, and Leak Investigations - Chicago, IL: Evaluation and repair design for existing structural steel framing supporting sixty-foot-tall storefront; condition assessment, water testing, and repair design for vaulted sidewalk and plaza

##### Roofing and Waterproofing

- New Construction Roof Parking Deck - Chicago, IL: Investigation and repair of buried roof waterproofing failure in one-year old building
- Trustmark Insurance Company Garage - Lake Forest, IL: Condition assessment and restoration of entrance plaza; ongoing condition assessment and repair of precast parking garage