



EDUCATION

- University of Michigan
 - Bachelor of Science, Civil Engineering, 2018
 - Master of Science, Civil Engineering, 2019

PRACTICE AREAS

- Repair and Rehabilitation
- Disaster Response
- Facade Access
- Concrete Structures
- Metal Structures
- Wood Structures
- Structural Analysis

PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction (AISC)
- Structural Engineers Association of Illinois (SEAOI)

CONTACT

ckuenzer@wje.com
312.325.0946
www.wje.com

EXPERIENCE

Christopher Kuenzer joined WJE in 2018 and has experience in condition assessment, repair and rehabilitation design, analysis of existing structures, construction period services, and design and testing of facade access equipment. Mr. Kuenzer has worked with a variety of structural materials, including reinforced concrete, steel, aluminum, masonry, and wood. His project work has also involved nondestructive evaluation of concrete structures using ground penetrating radar and sounding.

While studying at the University of Michigan, Mr. Kuenzer worked as a graduate research assistant and designed, fabricated, and operated a prototype machine that produced striated high-strength steel fibers to be used in ultra-high performance concrete (UHPC) research. He also assisted with instrumented failure testing of several full-scale UHPC and conventionally reinforced concrete members using hydraulic equipment in the University of Michigan's Structural Engineering Laboratory.

REPRESENTATIVE PROJECTS

Repair and Rehabilitation

- Old Chicago Post Office - IL: Inspection, repair design, and construction period services for concrete and steel structures at plaza and track level
- 801 South Canal Street - Chicago, IL: Feasibility study and design of retrofits to the structural system and precast concrete facade
- University Center - Chicago, IL: Repair design and nondestructive evaluation for new penetrations in post-tensioned slabs

Disaster Response

- Multiple Apartment and School Buildings - Dayton, OH: Inspection and assessment of tornado-related structural and facade damage to thirty-two buildings
- Apartment Complex - Homestead, FL: Inspection of hurricane damage to windows and doors of thirty apartment buildings
- Storage Facility - Pace, FL: Inspection of hurricane damage to facades, windows, and doors of fifteen buildings
- Warehouse Building - Woodridge, IL: Inspection and repair design for tornado-related bar joist and masonry damage

Facade Access

- St. Regis (formerly Vista Tower) - Chicago, IL: Load testing of facade access anchorages and building maintenance unit track supports
- Roosevelt University - Chicago, IL: Design, testing, and certification of new facade access equipment mounted to masonry
- Capital Center - Indianapolis, IN: Design, testing, and certification of new facade access anchorages mounted to hollow core concrete planks
- 77 West Huron Street - Chicago, IL: Design, testing, and certification of new facade access anchorages mounted to concrete
- University of Chicago Gleacher Center - IL: Inspection, testing, and certification of existing facade access anchorages

Concrete Structures

- 180 North Jefferson Street - Chicago, IL: Repair design and construction period services for concrete facade repairs
- 55 East Pearson Street - Chicago, IL: Condition assessment, repair design, and construction period services for parking garage and concrete facade repairs
- ProHealth Care - Mukwonago, WI: Analysis of a two-way voided reinforced concrete slab
- Various Parking Garages - Chicago, IL: Condition assessment, repair design, and construction period services for concrete repairs and traffic coating application

Metal Structures

- Texas Capitol Building - Austin: Analysis and record calculations for historic wrought-iron roof trusses
- 150 North Michigan Avenue - Chicago, IL: Design of new steel rooftop catwalks for accessing the sloped glazing
- Various Structures - Chicago, IL: Analysis of existing composite and noncomposite steel beams to support new mechanical equipment

Wood Structures

- Apartment Building - St. Louis, MO: Litigation support and analysis of PSL columns in a wood-framed structure
- Apartment Building - Indianapolis, IN: Inspection and repair design for water-damaged PSL, LVL, and dimension lumber columns and beams