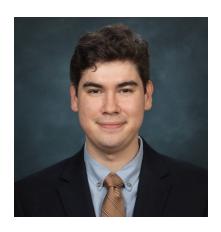
## PERSONNEL QUALIFICATIONS



# Andrew B. Conwell | Associate III



## **EDUCATION**

- University of Illinois at Urbana-Champaign
  - Bachelor of Science,
     Civil Engineering, 2021
  - Master of Science, Structural Engineering, 2022

## **PRACTICE AREAS**

- Structural Analysis
- Repair and Rehabilitation
- Structural Metals
- Concrete Structures
- Facade Access

## **REGISTRATIONS**

FAA Licensed Remote Pilot

## **PROFESSIONAL AFFILIATIONS**

- American Institute of Steel Construction
- Structural Engineers Association of Illinois

## **CONTACT**

aconwell@wje.com 312.372.0555 www.wje.com

#### **EXPERIENCE**

Andrew Conwell specializes in the investigation, analysis, and repair of existing structures. Mr. Conwell's experience spans a wide range of construction types, including office and residential high-rise buildings, historic structures, parking garages, and civil infrastructure. He has also designed, inspected, and load tested interior and exterior facade access systems for complex building geometries.

Mr. Conwell's work includes structural evaluation, condition assessments, repair and strengthening design, development of calculations and construction documents, and construction phase support. He has a particular interest in the conservation and rehabilitation of existing structures in Chicago.

## REPRESENTATIVE PROJECTS

## **Structural Analysis**

- Prudential Plaza Chicago, IL: Analysis of existing mid-century steel structure for increased loading from renovations, including live loads for new amenity spaces, loads imposed by new monumental stairs, and design of steel framing for enclosed walkway between buildings
- Willis Tower Chicago, IL: Analysis of existing composite steel roof framing for loads from proposed antenna modifications
- 25 East Washington Chicago, IL: Investigation and evaluation of historical steel and clay tile arch floor system for proposed live loads for new amenity space
- High-Rise Office Building Chicago, IL: Instrumentation, dynamic modeling, and mitigation design for office space with occupant-induced floor vibration performance issues

## **Repair and Rehabilitation**

- Old Post Office Chicago, IL: Inspection, repair design, and construction period services for concrete structures at plaza and track level
- Former Railroad Depot Chicago, IL:
   Construction progress inspection and structural remediation recommendations for conversion of historical masonry railroad depot into restaurant and brewery space

#### Structural Metals

- High-Rise Office Building Chicago, IL:
   Condition assessment and design of repairs for 1920s steel fire escape
- Residential and Commercial Buildings -Chicago, IL: Inspection mandated by City of Chicago to inspect exposed metal structures; development of repair recommendations

#### **Concrete Structures**

- Corporate Headquarters Oak Brook, IL:
   Design of slab opening infill and analysis of
   existing post-tensioned concrete structure to
   support increased live loads
- Water Purification Plant Chicago, IL: Inspection of and repair recommendations for roadway and water purification facilities supported on reinforced concrete structure
- Parking Garages Chicago, IL: Condition assessment, repair design, and construction period services for concrete repairs and traffic membrane application in various reinforced concrete, post-tensioned concrete, and prestressed concrete garages

## **Facade Access**

- 203 North LaSalle Street Chicago, IL: Design, load testing, and certification of facade access equipment for interior use at sixteenstory atrium
- Triton College River Grove, IL: Analysis of open web steel roof joists and anchorages for loads from aerial circus performances
- High-Rise Buildings Chicago, IL: Inspection, load testing, and certification of dedicated facade access equipment; inspection and repair design for building maintenance unit tracks and structural supports

