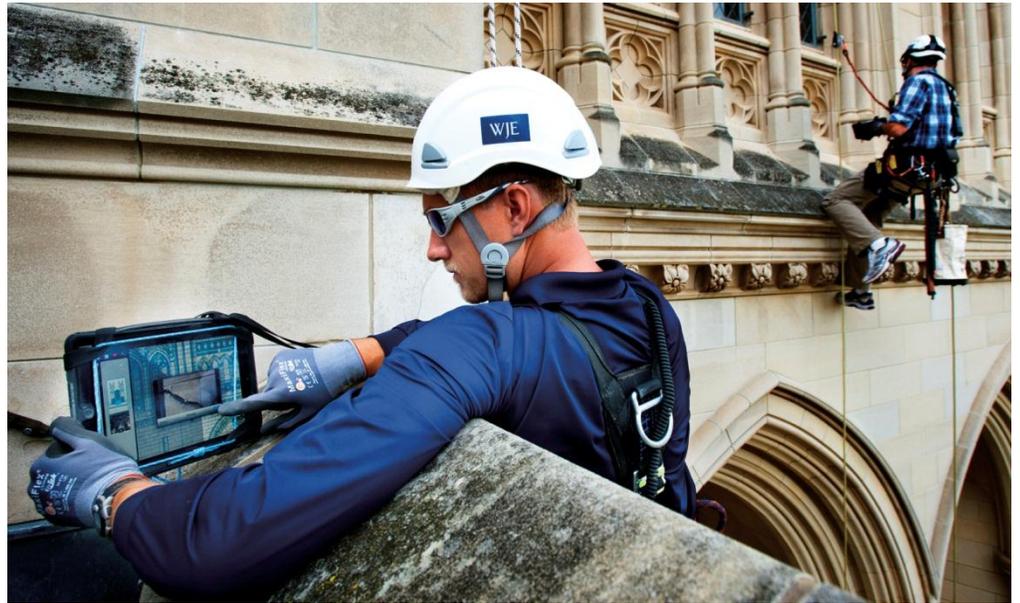




FIRM OVERVIEW

# Solutions for the Built World



Founded more than half a century ago, Wiss, Janney, Elstner Associates, Inc. (WJE), is an interdisciplinary engineering, architecture, and materials science firm specializing in delivering practical, innovative, and technically sound solutions across all areas of new and existing construction. WJE combines state-of-the-art laboratory and testing facilities, nationwide offices, and knowledge sharing systems to provide solutions for the built world.

## OUR SERVICES

- Structural evaluation
- Facade assessment
- Roofing and waterproofing
- Failure and disaster response
- Historic preservation
- Repair and rehabilitation
- Peer review and commissioning
- Bridge engineering
- Earthquake engineering
- Materials evaluation and research
- Testing and instrumentation
- Litigation consulting

## OUR APPROACH

As materials, technologies, and structures change, our fundamental philosophy remains the same: developing better solutions based on an accurate diagnosis of each structure's unique problem.

## OUR PEOPLE

With more than 500 employees, WJE has the resources to respond to virtually any problem, with expertise in all aspects of construction technology. The firm's engineers, architects, and materials scientists are supported by technicians who are experts in testing and instrumentation. WJE's understanding of structural behavior and the performance of materials is enhanced by experience gained from more than 75,000 projects worldwide.

## OUR RESOURCES

Our Janney Technical Center laboratory and testing facility is one of the nation's largest privately owned construction-based testing laboratories; it enables WJE to provide reliable answers to questions about construction systems, components, and materials. No firm is more qualified to break new ground in finding practical, innovative, and technically sound solutions.



### REPRESENTATIVE PROJECTS

- **I-35W Mississippi River Bridge**  
Minneapolis, MN  
Collapse Investigation
- **Central Artery/Tunnel (Big Dig)**  
Boston, MA  
Safety Audit
- **John F. Kennedy Center for the Performing Arts**  
Washington, D.C.  
Investigation and Rehabilitation
- **American Museum of Natural History**  
New York, NY  
Exterior Granite Facade Restoration
- **National September 11 Memorial**  
New York, NY  
Waterproofing Consulting
- **Art Institute of Chicago: Modern Wing and Nichols Bridgeway**  
Chicago, IL  
Structural Peer Review and Construction-Phase Services
- **Holy Name Cathedral**  
Chicago, IL  
Fire Damage Assessment
- **Nebraska State Capitol**  
Lincoln, NE  
Exterior Facade Investigation and Restoration Design
- **Alcatraz Cellhouse**  
San Francisco, CA  
Seismic Upgrade
- **Aloha Stadium**  
Honolulu, HI  
Condition Assessment and Repair Design
- **Los Angeles County Hall of Justice**  
Los Angeles, CA  
Exterior Envelope Consulting
- **Lyndon Baines Johnson Library**  
Austin, TX  
Plaza and Plinth Assessment and Restoration Design
- **Rainier Tower**  
Seattle, WA  
Exterior Condition Survey—  
Recladding Investigation and Design



### Our Strategic Locations





SERVICE PROFILE

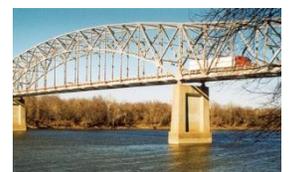
# Bridge Engineering



- Structural evaluations and load rating
- Fatigue and fracture studies
- Failure investigations
- Corrosion protection and durability studies
- Repair and rehabilitation design
- Safety inspection and nondestructive testing
- Seismic evaluations and retrofit design
- Instrumentation and field testing

Bridge structures are subject to harsh conditions and require on-going maintenance and rehabilitation to assure their long-term performance. Through the investigation of thousands of bridges and notable bridge failures, WJE bridge engineers have learned that improved bridge rehabilitation designs are accomplished through a better understanding of the problems. WJE's knowledge of bridge performance is supported by technical expertise in structural engineering, materials, laboratory and field testing, and instrumentation.

WJE bridge engineers have extensive experience conducting field investigations of bridge decks, superstructure, and substructure problems for a wide range of bridge materials and structure types. Supported by extensive laboratory facilities and in-house expertise in nondestructive testing, WJE professionals are routinely called upon to complete fatigue and fracture investigations, corrosion assessments, and collapse investigations.



## Bridge Engineering

### REPRESENTATIVE PROJECTS

- Benicia-Martinez Bridge, Benicia - CA: Long-term health monitoring
- Castlewood Canyon Bridge - Castle Rock, CO: Historic preservation study and structural repair design
- Chicago Skyway Bridge - IL: Development and evaluation of high-performance concrete mix designs
- District I Fracture Critical Bridges - Chicago, IL: In-depth inspection and fatigue evaluation of fracture critical bridges
- I-35W Bridge - Minneapolis, MN: Collapse investigation
- I-435 Bridge - Kansas City, MO: Fracture critical examination, instrumentation, and retrofit
- Leonard P. Zakim Bunker Hill Memorial Bridge - Boston, MA: Peer review and safety assessment
- Logan Creek Bridge - Glacier National Park, CA: Historic preservation study and repair design
- Oahu Bridges - HI: Post-tensioning inspection and appraisal
- Statewide Bridge Study - CA: Inspection of 120 bridges and recommendations to mitigate alkali-silica reaction problems

