PERSONNEL QUALIFICATIONS

Andrew E. N. Osborn | Senior Principal

EDUCATION

- Cornell University
  - Bachelor of Science, Civil Engineering, 1975
- University of Illinois at Urbana-Champaign
  - Master of Science, Structural Engineering, 1976

PRACTICE AREAS

- Insurance Investigation
- Litigation Support
- Collapse/Structural Failure Investigation
- Finite Element Analysis
- Instrumentation and Testing
- Vibration Studies
- Precast/Prestressed/Post-Tensioned Concrete
- Concrete and Steel Structures

REGISTRATIONS

- Professional Engineer in CT, DE, MD, NH, NJ, NY, RI, and VT
- Structural Engineer in IL and MA

PROFESSIONAL AFFILIATIONS

- Prestressed Concrete Institute

TECHNICAL COMMITTEES

- PCI - Prestressing Steel Committee, Research and Development Council, Industry Handbook Committee

CONTACT

aosborn@wje.com
617.946.3400
www.wje.com

EXPERIENCE

Since joining WJE in 1978, Andrew Osborn has participated in more than three thousand projects. He has conducted a wide range of investigations, repair designs, and load tests of buildings, bridges, water retaining structures, parking garages, tunnels, stadiums, and a lighthouse. These structures have been made of reinforced and prestressed concrete, masonry, steel, and wood. Since 1993, Mr. Osborn has developed expertise in investigations performed for, or on behalf of, insurance companies. He is also often designated as an expert in litigation matters. Prior to WJE, Mr. Osborn was a project engineer at DeLeuw Cather and Company (now Parsons Infrastructure), where he designed over twenty-five post-tensioned box girder bridges for the Kuwait Motorway System.

REPRESENTATIVE PROJECTS

Insurance Investigations

- World Trade Center - New York, NY: Investigation of WTC complex and thirty surrounding buildings following 9/11
- Rancocas Bridge - NJ: Capsizing investigation
- Bahamas Electric Corp. Power Station: Investigation of hurricane damage
- 287 Broadway, New York, NY: Stabilization leaning building

Litigation Support

- 16 Sutton Square - NYC: Expert opinion regarding vibration effects on residence
- 222 Grove Street - New Haven CT: Expert opinion regarding masonry collapse

Collapse Investigation

- 3000 Jerome Avenue - Bronx, NY: Steel frame collapse investigation
- South Avenue Garage - Rochester, NY: Post-tensioned concrete helical ramp collapse investigation
- David L Lawrence Convention Center: Steel frame collapse investigation
- Pedestrian Bridge - Marcy, NY: Steel U-girder collapse while under construction

Concrete Investigations

- University at Albany - NY: Investigation and repair design of historic exposed concrete
- Patapsco Waste water Treatment Plant - Baltimore, MD: Investigation, analysis, repair design, and leak remediation

Bridges and Tunnels

- Verrazano-Narrows Bridge - New York, NY: Deck cracking investigation
- 149th Street Bridge - Queens, NY: Deck cracking investigation and expert witness
- Brooklyn Battery and Queens Midtown Tunnels - NYC: Nondestructive testing
- Tren Urbano Tunnels - Leakage investigation
- Central Artery/Tunnel (Big Dig) - Boston, MA: Structural evaluation and leakage investigation
- East Side Access and South Ferry transit Facilities- New York, NY: Leakage investigation

Instrumentation/Testing/ Monitoring/Vibration

- Cape Hatteras Lighthouse - Outer Banks, NC: Extensive instrumentation system to monitor lighthouse during move
- University of Buffalo Arena Roof - NY: Long-term monitoring of roof response to snow loads
- LaGuardia Airport Over-Water Runway Extension - New York, NY: Multiple load tests and laboratory tests of scale models
- Tropicana Garage - Atlantic City, NJ: Ten major load tests

Structural Analysis/Finite Element Analysis (FEA)

- 535 4th Avenue - Brooklyn, NY: FEA of punching shear failure
- New Stanton, PA: FEA of reinforced concrete sewage tank
- New York, NY: FEA of spun aluminum luminaire enclosure

Research

- NSF: Shear testing of precast concrete wall connections
- FHWA: Testing of full-depth precast/prestressed concrete deck replacements
- NCHRP 10-62: Testing for surface characteristics of prestressing strands
- PCI: Testing and analysis of flange-to-flange connectors
- WJE: Testing of L-shaped anchor bolts