

### Peder Hals | Senior Associate



#### EDUCATION

- Norwegian University of Science and Technology
  - Master of Technology, Structural Engineering, 2009
- University of California, Berkeley
  - Exchange Program, 2007-2008
  - Equivalent one-year Master of Science, Structural Engineering, Mechanics, and Materials

#### PRACTICE AREAS

- Bridge Engineering
- Structural Evaluation
- Repair and Rehabilitation Design
- Structural Analysis and Design
- Facade Assessment
- Leakage Investigation

#### REGISTRATIONS

- Professional Engineer in MA

#### PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- Boston Society of Civil Engineers Section

#### CONTACT

phals@wje.com  
617.946.3400  
www.wje.com

#### EXPERIENCE

Peder Hals is experienced in the investigation, and repair design of highway and railroad bridges, facades, and parking garages. His contributions include structural analysis and evaluation of concrete, steel, and masonry structures. Mr. Hals' master thesis was written in collaboration with WJE on projects relating to concrete failure in T-beam bridges in Nevada focused on finding dynamic and other non-destructive testing method for determining the failure modes observed in the bridges. Prior to rejoining WJE, Mr. Hals worked as a structural design engineer, where he focused on bridge analysis and design, as well as construction period services.

#### REPRESENTATIVE PROJECTS

##### Repair and Rehabilitation Design

- Brown Building - Boston, MA: Design of replacement sidewalk with stone paver assembly, including construction period services
- FedEx Logan Airport - Boston, MA: Implementation of new concrete tether for aircraft anchoring
- Landmark Center - Boston, MA: Detailing of repairs for concrete garage and masonry facade, including construction period services
- Revere Housing - Revere, MA: Condition assessment through masonry inspection openings and construction period services

##### Structural Evaluation

- Boston Housing Authority - Commonwealth Development - Boston, MA: Condition assessment through masonry inspection openings
- Major Retail Chain - Nationwide: Inspection of roof truss joist welds
- Office Building - Cambridge, MA: Insurance claim support for garage water intrusion
- Omni Parker House Hotel, Boston, Massachusetts: Structural concrete slab investigation and repair recommendations

- Schools and Convention Centers - Colorado: Design and code review of existing construction documents. Analysis and design of retrofits for lateral wind-resisting systems
- Office Building - Boston, MA: Design of and construction period service for water management system in below-grade parking garage

##### Facade Assessment

- Bank of America Tower - Providence, RI: Difficult access and assessment of stone facade
- Fenway Trilogy Apartments - Boston, MA: Difficult access assessment of precast concrete facade
- Massachusetts General Hospital - Boston, MA: Difficult access assessment of curtainwall, metal panel and brick masonry facades

##### Leakage Investigation

- Boston Latin School - Boston, MA: Water leakage investigation of masonry facade.
- Four Seasons Hotel - Boston, MA: Water leakage testing and investigation of replacement windows
- Massachusetts General Hospital - Boston, MA: Water leakage investigation and testing
- Mercy Hospital - Portland, ME: Water leakage testing and investigation of windows and masonry
- Rhode Island State House - Providence, RI: Water testing and leak investigation, including assessment of exterior marble facade and interior brick masonry backup