

Emma Cardini

Senior Associate



EDUCATION

Tufts University

Bachelor of Science in Civil Engineering, 2001

Master of Engineering Science in Structural Engineering, 2009

REGISTRATION

Professional Engineer in Massachusetts

PRACTICE AREAS

Facade Assessment
Construction Administration
Condition Surveys
Difficult Access Inspections
Historic Preservation
Structural Evaluation

EXPERIENCE

Emma Cardini has experience in facade investigations, historic preservation, and structural condition assessments. She has been involved in field investigations and condition surveys to investigate deterioration, leakage, and structural problems in existing building enclosure systems. Ms. Cardini has prepared repair documents and provided construction phase services for a variety of materials, including stone, concrete, cast stone, brick masonry, terra cotta, and coatings and sealants. She has also participated in the assessment and repair of several historic structures.

Ms. Cardini is a member of WJE's Difficult Access Team and is a certified SPRAT (Society of Professional Rope Access Technicians) Level II Technician. She has inspected structures as tall as 550 feet using industrial rope access techniques, and has documented conditions and provided mitigation of falling hazards in areas that are difficult to access.

REPRESENTATIVE PROJECTS

Facade Assessment

- Bank of America, Providence, Rhode Island: Difficult access of stone facade and annual maintenance inspections
- Berkeley Building, Boston, Massachusetts: Rope access for stone facade inspection, condition assessment, and preparation of construction documents
- Docksider Place Condominiums, South Boston, Massachusetts: Condition assessment of brick masonry facade, preparation of construction documents, and construction administration
- Tribune Tower, Chicago, Illinois: Rope access for stone facade inspection of tower
- Tufts Health Plan, Watertown, Massachusetts: Difficult access for prepurchase inspection of brick masonry facade, construction documents, and construction administration

Historic Preservation

- Historic Masonic Temple (now the Renaissance Providence Hotel), Providence, Rhode Island: Condition assessment of steel columns, construction administration during installation of temporary structural steel support system, and documentation of repairs
- Old South Church, Boston, Massachusetts: Difficult access inspection of interior plaster wall finishes and masonry arch
- Omni Parker House Hotel, Boston, Massachusetts: Facade ordinance inspection, leakage investigation, and brick masonry facade repair design
- Washington Monument, Washington, D.C.: Condition assessment of post-seismic damage using difficult access techniques and repair recommendations

Structural Evaluation

- Docksider Place Condominiums, South Boston, Massachusetts: Analysis of distressed masonry column related to punched opening in load-bearing wall and design of supplemental support column
- Macy's, Boston, Massachusetts: Analysis of existing masonry walls and canopy framing and design of anchorage for new Christmas tree on canopy

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers (ASCE)