

SAMPLING OF STRUCTURAL EVALUATIONS FOR REPAIR, ALTERATION, ADDITION, AND CHANGE OF USE OF EXISTING BUILDINGS

BOSTON SCIENTIFIC - BUILDING 50 - MARLBOROUGH, MASSACHUSETTS

Conduct a visual inspection of the existing building. Review the existing structural documents for conformance with loadings and design requirements. Prepare a report on the existing structure for conformance with Chapter 34 of the MSBC.

BRICK MILL PLACE - TAUNTON, MASSACHUSETTS

Visually inspected the exterior and interior of the existing abandoned structure which was previously used for manufacturing processes for the proposed repairs, alterations and/or changes of use to the existing building. The structure is a (2) story mill building typical for this area of Massachusetts. The exterior wall construction of both portions consists of unreinforced masonry bearing walls. The majority of the interior framing is wood and steel columns, wood girders, wood trusses, and wood floor decking.

COURT SQUARE PRESS BUILDING - SOUTH BOSTON, MASSACHUSETTS

Multiple structural evaluations have been performed for both the potential owners and the present owners. Ultimately, this building involved renovations, change of use and additions to the turn-of-the century Type 3 construction printing press building. The building is now being erected and marketed as market-rate condominiums.

DORMITORY - DEXTER/DITSON BUILDING - BOSTON, MASSACHUSETTS

A structural evaluation was performed for the rehabilitation, change of use, and additions for two adjoining early 1900 structures from their present use (commercial) to use as a dormitory for a downtown university.

GORDON COLLEGE - FROST HALL - WENHAM, MASSACHUSETTS

A structural evaluation was performed to outline the existing conditions and to provide an opinion of the requirements of the Code based on the proposed alterations for this project. Our report also outlined the specific consequences of the actions related to the proposed alterations and the structural modifications that may need to be accounted for in future Contract Documents to address these consequences and bring the total structure into compliance with 780 CMR, Sixth Edition (Code).

LIBRARY LOFTS - CHELSEA, MASSACHUSETTS

A structural evaluation was performed to determine the reuse of the existing three (3) story mill building typical for this area of Massachusetts into new residential units. There are two portions to the structure – an east and west half. They are connected by a three (3) story corridor of similar construction. Between the buildings there is also a one (1) story loading dock, and to the east of the building, there is an attached one (1) story structure. The focus of our report was on the three (3) story portions of the buildings, which are the areas that are proposed for renovation. The exterior wall construction consists of unreinforced masonry bearing walls. The majority of the interior framing is wood columns and brick piers, wood beams, and wood floor decking.

MEDIA & TECHNOLOGY CHARTER HIGH SCHOOL - BOSTON, MASSACHUSETTS

The existing building is a three story concrete frame structure with a partial basement. The building was constructed in the early part of the 20th century. The building was previously occupied by an auto parts store and warehouse. Based on the change of use, the MSBC 6th Edition required the building to be upgraded to meet the current requirements for lateral load resistance - wind and seismic. Additionally, new foundation work was completed at two entrances to provide ADA compliance.



MATCH School
Boston, Massachusetts

Photo by DMBC



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MATTAPOISETT PUBLIC LIBRARY - MATTAPOISETT, MASSACHUSETTS

A structural evaluation was performed to evaluate the structural systems of the Library for the possible renovation and addition to the existing one-story structure with a partial mezzanine and a full basement, unreinforced brick bearing/shear walls, and wood framed floors and roof. The original building was constructed in approximately 1900. Bearing walls appear to be the exterior walls. Columns are present within the interior spaces.

MEMORIAL ELEMENTARY SCHOOL - MEDFIELD, MASSACHUSETTS

Structural retrofits were required to provide lateral resistance to the existing school building based on the Chapter 34 structural evaluation and the condition/type of existing framing. Additionally, modifications were made to accommodate new equipment and systems within the existing building.

PEMBROKE HIGH SCHOOL - PEMBROKE, MASSACHUSETTS

The existing building was evaluated for the program changes and additions the architect proposed to the town. An essentially complete internal demolition for at least one of the three wings and additions to the other two wings required seismic retrofits. Additionally, a number of areas of framing were reinforced to accommodate the higher live loads associated with various uses in the current program plans.

210 SOUTH STREET - BOSTON, MASSACHUSETTS

Renovations to existing building. Part A: Chapter 34 Review/Report; Part B: Structural Contract Documents (Designs, Drawings, and Technical Specifications) for slab infills, column removal, new vehicle elevator and miscellaneous Chapter 34 structural requirements; and Part C: Construction Administration (Review of Submittals and Periodic Site Visits During Construction).

SHREWSBURY PUBLIC LIBRARY - SHREWSBURY, MASSACHUSETTS

Review of existing structure, Chapter 34 investigation, conceptual framing design and report of our findings.

UPHAM'S CORNER CHARTER SCHOOL - DORCHESTER, MASSACHUSETTS

A pre-purchase structural evaluation was performed for the potential owner to quantify the feasibility of converting a 4 story masonry bearing wall structure erected in the early part of the century and currently containing multiple uses into a Charter School with street level retail. Investigations, analyses and initial cost estimates were provided to the potential owner.

VERNON HILLS RESIDENTIAL DEVELOPMENT - WORCESTER, MASSACHUSETTS

The objective of our structural evaluation was to provide a preliminary opinion of the requirements of the Code based on the proposed renovation of the existing hospital. The original St. Vincent's hospital was constructed in 1951 and consisted of a main seven-story building with a basement facing the Winthrop Street with four-story and two-story buildings in the back. Other buildings were added to the hospital later. The report concentrated on the main seven-story building that will be renovated and turned into residential units.



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