

Bridgeport Building Inspection – Strocchia Iron Works Bridgeport, CT

Project Description:

Location

Bridgeport, CT

Owner

Strocchia Iron Works

Duration

2007

Firm's Fee

\$5,000

AI Engineers, Inc. was assigned to perform the structural and electrical inspection of a late 1800s to early 1900s brick and structural steel building. Over the years, additional sections were added to the building to accommodate industrial expansion of that period. The building consisted of two sections, the warehouse section and the machine shop section.

The Machine shop section is constructed with brick masonry supporting wood trusses and rafters. The warehouse structure consisted of structural steel framing supporting metal roof deck and spanning between steel trusses. The trusses were supported by steel columns bearing on concrete piers extending from continuous concrete footings. This building had concrete slab floor on grade.

The objective of the inspection was to assess the condition of the structural and electrical systems and components and identify any deterioration. Also, all safety issues were identified and reported to the owner.

Non-destructive testing was requested by the structural engineer and approved by the owner. Testing included ultrasonic testing of select welded connections and half cell testing and testing of core samples from the concrete slab at various locations.

Structural and electrical reports were compiled to address all the building problems and deterioration. The report also recommended rehabilitation to address emergency life safety issues as well as long term recommendations for improvement and renovation of the building.



Salient Features

- Condition Inspection
- Hydraulic Analysis
- Hydraulic Design
- Utility Coordination
- Develop DEP Permit Submission

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Bridgeport, CT

(continued)

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Along with the engineering report, rough cost estimates were prepared and submitted to the owner to support allocation of funding for reconstruction and rehabilitation of the building.

