

L F ENGINEERING, PLLC

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Buffalo Public School #80 Highgate Heights Addition and Renovations Buffalo, New York



L F Engineering provided the structural design and engineering for the addition and renovations at Buffalo Public School #80. L F Engineering was a part of the design team working on the project from conceptual design through final completion in 2004.

A part of the project goal was to construct two additions at the second floor above the existing gymnasium and auditorium at the first floor. The existing structure was investigated in each area and in each area was determined to not have the required additional capacity to support additions above. Complete demolition of the first floor areas and new construction for the first floor and second floor additions was not feasible within the overall project budget.



To meet the project goals and stay within budget, L F Engineering designed the two additions to be supported by external columns and a unique bent-beam framing system. Each addition was designed to “hang” above the existing roof structure to avoid over stressing the existing structural members.

**STRUCTURAL AND CIVIL
QUALITY. DEPENDABLE. PROFESSIONAL.**