

# DM Berg Consultants, P.C.

## Summer/Fall 2004

**WAY TO GO SOX!**

**DM Berg Consultants, P.C.** is a consulting structural engineering firm specializing in building analysis and design. For the past four decades, we have focused on the practice of providing sound, efficient engineering solutions and interactive client service; those remain our goals today.

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### Recent Projects

#### Harrison Commons



Boston, MA - The goal in renovating the former five-story Boston College High school was to create interior space to be used for luxury loft condominiums while maintaining the exterior façade and roof of the building for historic preservation concerns. Architect is Bruner/Cott & Associates, Inc. ■

#### Levi Heywood Memorial Library



Gardner, MA - This two-story steel framed structure on a sloping site has basic floor framing of composite concrete slab on composite steel beams and girders. The roof framing is the same, but is "capped" by lightgauge metal trusses over unoccupied space to create a gable roof and towers over each entrance. The lateral force resisting system is comprised of structural steel ordinary moment frames. Lateral load distribution was complicated by the additional horizontal loads from the full story-height retaining walls on two sides of the building. Architect is Burt Hill Kosar Rittelmann Associates, Inc. ■

#### Area D-4 Police Station Redevelopment

South Boston, MA - Redevelopment of the 30,000 square foot former police station consisting of a four-story brick building which was completed in 1932 and sits on a 13,072 square foot lot with an underground parking garage. The redevelopment will provide luxury condominiums for the South End area. The Architectural Team, Inc. is implementing French architect Phillipe Starck's design. ■

#### Acton-Boxborough Regional High School



Acton, MA - The project was completed this past September. A new two-story addition and several other small additions were added to the existing high school totaling approximately 104,000 square feet. The existing 222,500 square foot school was also renovated to accommodate a projected school population of 2,050 students by 2010-2011. Architect is Design Partnership of Cambridge, Inc. ■

#### S. Boston Harbor Academy Charter School

South Boston, MA - This project consists of the renovation/reconstruction of both an existing high school and an existing convent to be connected via a new one-story infill addition. Construction is underway for the new school which will be approximately 46,500 square feet. The new linked building's entrance connects to various levels of the existing high school via a new masonry elevator with an exposed arched steel roof and a new cantilever canopy. Architect is Arrowstreet, Inc. ■

*Project Highlight . . . . . Staff Profile*

**LAWRENCE MILLS  
Lowell, Massachusetts**

**Leonard B. Weiss, P.E., S.E.  
Project Engineer**



Rendering by TAT

**Lawrence Mills**  
Lowell, Massachusetts

**Lawrence Mills  
Lowell, Massachusetts**

**Owner:**  
*EA Fish Associates*

**Architect:**  
*The Architectural Team*

**General Contractor:**  
*Suffolk Construction Company, Inc.*

**Total Estimated Cost:**  
*\$26,000,000*

**NEWSFLASH**

Welcome **Ben Schlick** to our engineering department.

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Congratulations to **Dave Shepard** on his recent marriage engagement.

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The project consists of an extensive renovation of Buildings 8 and 9 into condominiums and rehabilitation of Buildings 16, 17, and 18 into artists lofts and gallery space. The original buildings are of mill-type wood post and beam construction with exterior brick masonry bearing walls. Our services included:

- Structural condition survey of the existing buildings including perimeter and interior masonry walls, wood decks, beams, columns, column bases, and the exposed foundations.
- Identify all structurally deficient wood decks and beams and interpret results of in-situ testing of wood beams.
- Establish, in cooperation with a wood technologist subconsultant, the allowable stresses and moduli of elasticity for the wood elements.
- Perform a Massachusetts State Building Code Chapter 34 review to identify the gravity, wind, and seismic design requirements.
- Perform an analysis of the existing building to investigate the capacity of the structural elements for additional weight imposed by the new architectural layout, newly added flooring and new roof top mechanical systems, in conjunction with new code live loads.
- Design and produce complete construction documents to include strengthening of the existing structure for renovations and additions. The renovation included new stair and elevator shaft openings through existing floors, miscellaneous new openings or infills of existing abandoned openings, strengthening of deficient existing structural elements, masonry repairs, and seismic upgrade of the building with new cmu shearwalls. ■



Mr. Weiss joined DMBC in 2003. He has diverse experience in structural engineering.

Lenny holds a Bachelor of Science Degree in Civil Engineering from the University of Illinois. He earned his S.E.

registration from the State of Illinois and is also a registered professional engineer in the State of Massachusetts.

Since joining DMBC, Mr. Weiss has been involved with the analysis and design of new and existing structures, including existing condition surveys. He works within our team approach providing complete structural design, coordination, project management, and construction administration.

In his spare time, Lenny enjoys spending time with his family and friends, playing softball, and listening to William Hung songs. He also does a very good voice impersonation of Bill Clinton.

A sampling of projects Lenny has worked on include:

- Ruth's Chris Steak House - Boston, MA  
*Client: Ruth's Chris Steak House*
- Brigham & Woman's Hospital Renovations Boston, MA  
*Architect: Steffian Bradley Architects, Inc.*
- Ashland Public Library - Ashland, MA  
*Architect: Burt Hill Kosar Rittelmann Associates*
- Beacon Hill Residences - Boston, MA  
*Architect: CBT/Childs Bertman Tsekares, Inc. ■*

*One of our current projects, Linden Ponds at Hingham, has been listed in the Boston Business Journal as one of the area's largest construction projects.*

DMBC, P.C. strives to create a working atmosphere where, through mutual cooperation and respect amongst staff and clients, the process of designing structures can be carried out with efficiency for all concerned including owners, developers, other clients, and end users.