

# DM Berg Consultants, P.C.

## Summer/Fall 2006

Serving the industry since 1963, 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.



- CIVIC  
Libraries, Town Halls, and Maintenance Facilities
- COMMERCIAL  
Offices and Manufacturing
- EDUCATIONAL  
PK-12, Colleges, and Universities
- ENTERTAINMENT  
Cinemas and Theaters
- HEALTHCARE  
Hospitals, Nursing Homes, and Assisted Living Facilities
- HOSPITALITY  
Hotels and Convention Centers
- INSTITUTIONAL  
Prisons, Court Houses, and Police/Fire-Fighting Facilities
- PARKING GARAGES  
Stand-Alone, Attached Above-Grade, and Below-Grade
- RESIDENTIAL  
Multi-Family Apartments and Condominiums
- RETAIL  
Restaurants, Stores, Malls, and Supermarkets

### Meet the President . . . . . *Thomas G. Heger, P.E.*



Tom knew he was destined to be an engineer at a young age when he would watch his father, Dr. Frank J. Heger, design unique and challenging structures such as the world's largest spherical structure, Spaceship Earth, at Epcot Center in Walt Disney World, Florida.

A graduate of Northeastern University with a Master of Science Degree in Structural Engineering, Mr. Heger has 22 years of experience in the field of structural engineering. Tom is registered as a professional engineer in Massachusetts, Connecticut, Maine, Michigan, New Hampshire, New Jersey, New York, Ohio, Rhode Island and Vermont.

Prior to joining DM Berg Consultants, P.C., Mr. Heger held positions as Senior Engineer at two of the country's leading consulting engineering firms. In 1994, Tom was a welcome addition to DMBC, serving as an Associate. He was given the responsibility of engineering significant projects and overseeing young designers within the firm. Through his proven knowledge and abilities, Tom was promoted to Vice President in 2000. The end of 2002 brought change of ownership at the firm and Tom took the helm as President. As President of DMBC, Mr. Heger's business focus is on providing superior client service, effective project management, and ensuring successful administration and leadership of the firm.

As a professional within the industry, Mr. Heger is a member of numerous organizations such as American Concrete Institute; American Institute of Steel Construction; American Society of Civil Engineers; Boston Society of Civil Engineers Section; International Concrete Repair Institute; National Council of Examiners for Engineering and Surveying; and Boston Society of Architects.

Tom enjoys spending time with his wife Michelle, daughter Rachelle, and son Jim. His hobbies include skiing, golfing, and home renovation projects. Tom is also an active member within his community.

Embracing the admirable standards and work ethic David M. Berg, P.E., Senior Principal and founder of the firm, has instilled throughout the firm, Tom's door is always open to fellow peers, clients, and friends.



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## Project Highlight . . . . .

### PLEASANT STREET APARTMENTS Malden, Massachusetts

### Getting “Locked Up” can be a Good Thing!



Agent for Owner:  
*Combined Properties*

Architect:  
*Steffian Bradley Architects*

General Contractor:  
*Payton Construction Co.*

Total Estimated Cost:  
*\$40,000,000*

#### ON THE BOARDS

The new **Ocean Club** condominium complex in Revere; renovation of a former fire station into **Engine 1 Condos** in Belmont; the new **Iron Mountain** storage facility in Northborough; renovation of a mill-type building into an educational space for **City on a Hill Charter School** in Boston; renovation of **Wellesley Manor** in Wellesley; the new addition to the existing Sacred Heart School in Kingston; and the new **Stop & Shop Supermarket** in Johnston, Rhode Island.

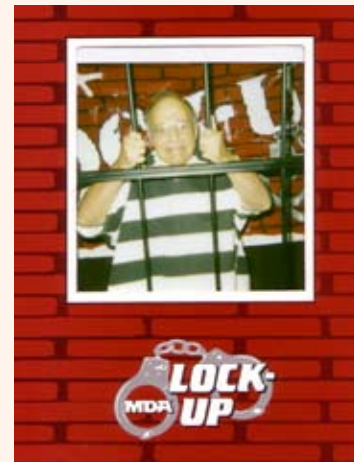
To read past issues, visit [www.dmberg.com](http://www.dmberg.com) and click on **Company** subcategory **News**.

This project is composed of a steel framed 204 unit apartment building with three levels of parking below. To eliminate the need for ramps, the project takes advantage of the naturally sloping site such that the three levels of parking garage are accessed from the three surrounding streets.

There are a total of 14 framed floor levels plus a mechanical penthouse. The apartment level floor framing is composed of a 3-inch deep composite metal deck supporting a lightweight concrete slab typically spanning 13'-6" to composite steel beams located at the room demising walls. This layout allowed for higher ceilings within the units, but with a shorter floor-to-floor height typically only 9'-4". At the exterior perimeter of the building, six corners are column free to allow for large corner windows. The columns supporting the cantilever beams at these corners are shifted off the main column grid. These columns are braced by tie members situated in the flutes of the deck so that the desired high ceilings are maintained above the perimeter rooms.

The garage level floor framing is similar to the apartment levels except that normal weight concrete slabs were provided and epoxy coated reinforcing was utilized for durability.

You may have read in the news lately that Mr. Berg got locked up! Yes, it's true, on August 30th, they came and arrested him - for Good! It was all to benefit the Muscular Dystrophy Association. Thanks to kind friends and business associates, Dave raised \$2,960 for the organization which will make a difference for the children and adults MDA serves, providing help for today and hope for tomorrow. MDA continues to be able to provide comprehensive services through local clinics and advance its research efforts to find treatments and cures for some 43 neuromuscular diseases. Thanks to all.



The interior column layout was generally dictated by the garage drive lanes and with minor exceptions the column grid is consistent in the garages and the apartment levels to avoid large transfer girders. The perimeter columns that are shifted off the main column grid for the corner windows are supported by transfer girders at the second floor level.

The lateral system for the building is composed of welded moment frames in the north-south direction and two-story ordinary X braced frames in the east-west direction. The braces were located to occur between apartment units and between parking spaces within the garage levels.

The exterior wall systems for the project includes reinforced CMU around the garage levels and prefabricated metal wall panels with either thin brick or EIFS finishes. The perimeter of the floor slabs were designed and reinforced to support the weight of the wall panels. ■

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.