

Broadway Electrical Co. Nearing Completion of \$9.5 Million Core Electrical Construction of One Lincoln Street in Boston

Project Architect - Jung / Brannen Associates, Inc., Boston, MA;

General Contractor - Beacon Skanska Construction, Boston, MA; Electrical Engineer - C₃, Boston, MA

Developer: The Gale Company, Boston; Partner: KingstonBedford Joint Venture, LLC

BOSTON, MA - Broadway Electrical Co., Inc. of Boston is nearing completion of the \$9.5 million core electrical construction of One Lincoln Street, a new 37-story high rise commercial building in Boston. The 1,000,000 s/f facility, on schedule for completion in June of 2003, will serve as the headquarters for State Street Bank.

The complex primary power installations for the building include six 4000 Amp services which are fed off one power vault on the P2 level. Several transformers feed the building, and a 2000KW generator provides emergency/back-up power to the facility from the P1 level.

Unique to Broadway's electrical construction is the manner in which the large emergency generator was installed. Due to the tight site and difficult logistics, the electrical contractor had to first dismantle the emergency generator, then lower it by crane, and finally reassemble it prior to installation. This was the most efficient means of access and installation.

The primary power installations also required Broadway Electrical's considerable design of the facility's bus duct and piping systems. The Boston based contractor's field engineering expertise and CAD design for the refined bus duct plan enabled the installation to efficiently meet actual site parameters. The bus duct was factory ordered to dimension, and the process resulted in precise installation.

The multifaceted electrical project scope at One Lincoln Street also entails the installation of a state-of-the-art, bi-directional fire alarm system and intercom system, as well as the management of the security systems' installation



Artist's rendering of One Lincoln Street, Boston - provided by Jung/Brannen Associates, Inc.

at Boston's newest high-rise building. The building's card access security system will feature call station monitoring of all stairwells.

One of the many key project challenges being met by Broadway is the installation of façade lighting. The intricate process has required the custom assembly of fixtures installed on the top section of the building. Broadway has designed a special tool for this purpose. The facility's exterior lighting consists of 16-foot tubes, which are custom designed and manufactured. Broadway's installation of the upper façade lighting has taken place via balcony access on the 22nd, 26th, 31st and 35th floors at elevations of 300, 400, and 500 feet.

Concurrent to providing

primary electrical installations for One Lincoln Street, the NECA member contractor is also handling the electrical fit-up for power, lighting, and

sophisticated security systems - provided by **Mac Systems** - for the 5-level underground parking garage. The parking facility security system, manu-

factured by Stento, features a "scream alarm" with voice-activated microphones, security cameras, and call stations in the stairwells. The cost of this security system alone is expected to represent more than 1 million dollars in equipment and installation costs.

At peak construction, Broadway has managed a field staff of up to 41 journeymen and apprentice electricians from IBEW Local 103 to meet the aggressive project schedule. Glenn Duquette, project manager and chief estimator, commented on Broadway's ability to accommodate the unique power requirements at the facility, saying, "In an effort to most efficiently provide power to the facility, we custom designed the layout for bus duct and piping systems. Broadway's ability to provide effective solutions on site oftentimes entails custom CAD work."

Broadway Electrical is working in tandem with project architect, Jung /Brannen Associates, Inc. of Boston, general contractor Beacon Skanska of Boston, and the electrical engineering firm, C₃ of Boston.

November 23rd Marks Deadline For Application Into 2003 Boston JATC Electrical and Telecom Training Programs

DORCHESTER, MA - The Boston Joint Apprenticeship and Training Committee (JATC) in co-operation with the Boston Chapter of NECA and IBEW Local 103 is accepting applications for the 2003 Boston JATC Electrical Construction and Telecommunications Training Programs through November 23rd. To apply, individuals must be at least 18 years old and be a high school graduate or have a GED. Applicants

may apply in person at the JATC Training Center, 194 Freeport Street in Dorchester on weekdays from 9AM to Noon and 1PM to 4PM, and on Saturdays from 9AM to Noon.

The five-year JATC Electrical Construction Training Program consists of over 1,000 hours of classroom instruction and 10,000 hours of field training. The four-year Telecommunications Program entails 800 hours of classroom training and 8,000

hours of on-the-job training. While training, apprentices receive excellent wages and benefits.

JATC programs are approved by the MA State Department of Labor and Workforce Development, Division of Apprenticeship Training and the US Department of Labor, Bureau of Apprenticeship Training.

For further information, call the Boston JATC at 617-436-3710.