

## Mass Bay Electrical Corp. Nearing Completion of \$5.2M Electrical Construction of Logan International's Terminal C Renovation/Expansion Project

Fellow NECA Contractor Maureen Electrical Serving as DBE Subcontractor on Project; GC: Skanska USA Building Co., Boston, MA; EE: WSP Flack and Kurtz, Boston, MA; Architect: C&R/Rizvi Architects, Inc., Boston, MA



BOSTON, MA – Mass Bay Electrical of East Boston is in late phase construction of the \$5.2M electrical renovation and expansion project at Logan International Airport's Terminal C, which is comprised of all gates for Jet Blue and United Airlines. The project's primary electrical contractor, Mass Bay has assigned *Maureen Electrical, Inc. of Methuen, MA* to serve as the DBE subcontractor to Mass Bay on the project.

Mass Bay's project scope entails providing numerous electrical upgrades and energy efficient enhancements to the four-decade old facility, including the installation of new LED Lighting Systems featuring integrated controls for daylight harvesting and occupancy dimming. The project also includes a new fire alarm system, paging system, security system, and emergency power distribu-

tion system for Terminal C. In addition, the NECA contractor is providing electrical installations for the new TSA security checkpoint in the terminal, as well as for the shopping mall and gate hold rooms.



Mass Bay's Project Manager Rick Broderick and General Foreman Wayne Banks are supervising a field crew of ranging from 20 to 24 IBEW Local 103 electricians throughout the aggressive 11-month project

timeline. The NECA contractor has crews working night shifts to meet schedule requirements and the project is on track for completion by late June of this year.

All installations are being provided in one of Logan's busiest terminals while the terminal remains fully operational. To accommodate the airport's schedules without disruption, the fast track project is structured and handled in many phases, including: renovations to the ticket hall; installations for the new checkpoint area; renovations to bag belt systems; installations for the new Jet Blue ticket counter; conversion of existing checkpoint areas into new hold rooms for new gates; renovations to the arrivals area bag service offices; and installation of new ventilation and security systems for the crawl space areas under the terminal.

The lighting retrofit is among many unique project challenges being met in the occupied terminal. Lighting in the ticketing hall has required special floating/suspension staging to allow for installation of new EE LED lighting systems. Here, Mass Bay and Maureen Electrical first provided temporary lighting, both underneath and above the staging.

Security system installations are being provided and tested in tandem with system manufacturer

Schneider Electric. Within the security scope, Mass Bay has provided infrastructure wiring for the TSA Advanced Imaging Technology.



Mass Bay is installing a state-of-the-art Simplex Grinnell fire alarm system while the existing system is kept operational. New automatic smoke detection and sprinkler systems are being installed throughout the terminal. Additionally the contractor is providing power wiring for the ventilation system, which interfaces with the fire alarm system.

"Managing logistical challenges is critical to the project's success," said Mass Bay PM Rick Broderick. He continued, "Simultaneous construction in a \$55 million reconstruction of one of Logan's busiest airline terminals requires close coordination with the entire project team. Massport, project consulting firm Caminiti Consulting, Inc., and general contractor Skanska USA have worked adeptly with Mass Bay

and other key subcontractors to ensure the project remains on track. General Foreman, Wayne Banks, has done an exemplary job in managing Mass Bay's skilled Local 103 workforce." Experience indeed has played a key role. PM Broderick is a 15-year employee of Mass Bay Electrical and Banks has been with the NECA firm for more than 25 years.

*Mass Bay Electrical has concurrently been awarded the Logan International airport runway lighting/cabling project – Massport Project L797-C2 – replacing self-5kV feeders and miscellaneous airfield improvements. Last year, the NECA contractor completed C1 contractor for the airfield's north feeders.*

### NECA Contractors Spectrum IT and LAN-TEL Providing Telecom Installations at Terminal C

Under separate contract, Spectrum Integrated Technologies of Jamaica Plain, MA is providing telecom installations with LAN-TEL Communications of Norwood, MA providing fiber optic cabling under subcontract to Spectrum IT. Mass Bay provided the telecom infrastructure, including cable trays and floor boxes for the tel/data wiring project.

## Mass Bay Electrical Completes Cape Cod Canal Tower Cable Retrofit Installation Project

Critical safety measures employed by NECA Contractor in NSTAR project

BOURNE, MA – In a highly specialized operation, Mass Bay Electrical successfully completed the retrofit installation of new optical and static ground wire cable in two Cape Cod Canal towers in late December 2010.

Mass Bay's project scope involved changing the existing static line to a new OPGW static line with a core of fiber optic cable. The project entailed transporting cable across the Canal via helicopter in the intricate and critical installation process. Nearly two (2) miles of cable was installed in the process.

The cable and Canal towers are used for communication between NSTAR's control room and various NSTAR substations on the Cape and in Southeastern MA. The new



cable line also protects high voltage lines from lightning strikes. The Canal's north and south towers are located between the Sagamore and Bourne Bridges and the cable brings power to the Cape and Islands.

The project involved closing down two major highways – Routes 6 and 6A, the Massachusetts Coastal



Railroad (Bourne to Hyannis), and the Cape Cod Canal during the critical operation, which was performed from 7AM to 5PM. *Editor's note: When last performed, 30 years ago, the previous contractor dropped the cable into the Canal and caused a Coast Guard boat to catch fire, so safety was an extremely critical aspect to the project.* Coast Guard,



State police and local police were on site to assist in the oversight of the process and Local 104 had several additional safety inspectors on site to ensure the project was handled appropriately.

Bucket trucks with rigs on the ground were positioned underneath critical lines to catch lines in case of cable failure to protect the Canal

and railway. All linemen wore special PPE safety harnesses. A helicopter was also utilized to allow for disengaging four (4) aviation obstruction safety balls from the existing cable line, enabling line inspection. The procedure was necessary to ensure the integrity of the existing line was such that it could be used to pull in the new cable. The aviation balls, used to protect pilots flying along the Canal, were reinstalled following the installation of the new cable.

Mass Bay Vice President James D. Moulison, Jr., Project Manager Dan Sullivan, and Project Foreman/Head Lineman Jason Meashaw supervised a team of 20 IBEW Local 104 linemen in the 10-hour project.