TEC SYSTEMS INC.

CASE STUDY

BUILDING AUTOMATION CONTRACTORS

Brooklyn College

Brooklyn College, first opened in 1930, sits in the midwood section of Brooklyn, specifically the area called Flatbush, New York. Since the college's financial endowment in 1992, its 26-acre campus has been a subject of much expansion and renovation. A $62 million dollar expansion, which began in 1999, gave it its recognition as having the largest, most technologically advanced facilities in the City University of New York education system. This expansion included an overhaul of their HVAC systems, which now consists of a multi-facility, 3,000 ft. fiber-optic network that interconnects all campus buildings together. As one of the top-ranking colleges of the nation, and in concordance with CUNY's mission, "access and excellence" are the college's primary goals.

In the same spirit, T.E.C. Systems Inc., has maintained the highest standards and aspirations. Spanning from the early installation of an American Auto-Matrix DDC controls system in 1994, to the new 'monster' chiller plant, to the current library renovation project, that is to be completed sometime next year, T.E.C. Systems Inc. has been there for the job in the design and installation phases of their controls network from the very beginning.

This large-scale commercial installation was a two phase installation with the first phase based on a coaxial Ethernet network and extending to the current fiber-optic communication backbone that networks over 10,000 points throughout the college campus interconnecting 16 facilities, in total. Among the facilities included are: James Hall, Ingersoll Hall, the Plaza building, and the newly renovated and expanded college library. Among the collection of controllers, the project consists of 11 SAGEMAX area controllers, and a range of American Auto-Matrix GX, DX, MC, and IX controllers that manage:

· Air handling units

(continued)

Project Specs:

Owner and Developer:
City University of New York

Engineer:
Walter Bishop (Halls & Plaza Building)
Kallen & Lemelson (Library)
Joseph R. Loring & Associates (Chiller Plant)

Mechanical Contractor:
Maric Mechanical, Inc. (Halls & Plaza Building)
Keyspan, Inc. (Library)
KSW Mechanical Corp. (Chiller Plant)

Construction Manager:
TDX Construction Corp. (Halls & Plaza Building)
Turner Construction (Library)
Morse Diesel (Chiller)

Brooklyn College (continued)

· Fan coil units

· Hot water systems

· Chilled water systems

· Cooling towers

This multi-facility controls network, monitored by 3 front-end graphics workstations handles temperature and environmental control in: lab rooms, classrooms, and recreational facilities, as well as, monitors the newly implemented chiller plant through differential pressure sensors.

For the revolving 15,000+ students who, on average, attend Brooklyn College, and its faculty staff, their enjoyment of comfort and reliability is greatly due to the outstanding quality of American Auto-Matrix products and the controls expertise of T.E.C. Systems Inc. As for the comfort of the campus's facility managers, the networked systems' dependability and accessibility is, as sure as, the valued education it provides.

T.E.C. Systems Inc. is a full service, New York based, automation controls contractor, specializing in the design and implementation of computerized Building Automation Systems.

T.E.C. SYSTEMS INC.

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