



Conestoga-Rovers & Associates Project Summary

KEY PROJECT ELEMENTS

- Installation of Energy Conserving Equipment
- Preparation of Electrical and Mechanical Design Drawings and Specifications
- Installation of Water Source Heat Pumps

JEVCO BUILDING RETROFIT MONTREAL, QUEBEC



CLIENT: JEVCO INSURANCE
DURATION: JANUARY 2005 – FEBRUARY 2006
COST: CONFIDENTIAL

The JEVCO Building Retrofit consisted of the replacement of the mechanical and electrical systems in a 55-year old, 7-story office tower with a basement-level parking garage. CRA provided a comprehensive range of services, including the review of existing conditions, the completion of a needs assessment, and the preparation of mechanical and electrical design drawings and specifications. Technical support and oversight were also provided during the tendering and construction phases. Services included the preparation and issuance of Contemplated Change Notices, site reviews, compliance inspections, reporting and commissioning, and acceptance testing services.

Two 35-year old steam boilers, piping, and manual control valving were removed and replaced with two high efficiency hydronic boilers. A water source heat pump (WSHP) loop was installed in the building. More than sixty heat pumps were installed to match zoned heating and cooling requirements throughout the building. The WSHP provides both year-round cooling in the core areas and heating and cooling in the perimeter areas. Excess heat removed from the core areas (under year-round cooling loads) by the WSHP loop is utilized by perimeter fan coil units to offset building envelope losses. System capacities were designed to account for new energy efficient lighting, energy efficient windows, and the addition of insulation to the building envelope.

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