



# HIGHLANDS BRANCH LIBRARY RENEWAL

EDMONTON, AB



## QUICK FACTS

- + Library Renewal
- + LEED® Silver
- + 118,000 square feet
- + \$5.5-million Budget
- + Smith + Andersen Mechanical



# HIGHLANDS BRANCH LIBRARY RENEWAL

## ABOUT THIS PROJECT

- + Mechanical design included energy efficient systems to create an indoor environmental quality that meets the requirements of LEED Silver certification.
- + The building is heated through the use of condensing boilers.
- + A cascading load system is utilized for the circulated heating water, which creates a high temperature drop between the incoming and outgoing water to and from the boilers. In turn, the boilers utilize the energy of combustion in a highly efficient manner.
- + The building is cooled through the use of an air-cooled chiller and circulated chilled water in a radiant perimeter slab application.
- + A displacement ventilation system is used to provide air to the space.
- + The building is controlled using a direct digital control (DDC) building management system, which tracks indoor and outdoor environmental conditions and matches equipment output to the building demand, which optimize efficiency.

**LOCATION**  
Edmonton, AB

**SERVICES PROVIDED**  
Mechanical

**KEY TEAM MEMBERS**  
Marshall Tittlemore Architects  
Schmidt Hammer Lassen  
Architects

**SIZE**  
118,000 sq. ft. (1,096 sq. m.)

**BUDGET**  
\$5.5 Million

**COMPLETION YEAR**  
2014

**SUSTAINABILITY**  
LEED® Silver

## HOT BUTTONS

LIBRARIES

DDC

MECHANICAL

PUBLIC SPACES

COMMUNITY

LEED

