

JOAMIE ELEMENTARY SCHOOL

Project	Joamie Elementary School
Location	Iqaluit, Nunavut, Canada
Service	Full A/E Services
Process	Design/Bid/Build
Value	\$11.1M CAD
Status	Completed 2005

The new Joamie Elementary School is the first CBIP building in the Canadian Arctic. Completed in February 2005, this new school is an example of new building practices for the North designed and constructed to achieve a CaGBC LEED™ Certified rating along with meeting the energy efficiency NRCan CBIP program. At about 2800m² the single storey K-6 facility for the Department of Education, Government of Nunavut incorporates a variety of features to meet the LEED™ and CBIP goals. Primarily good sustainable construction techniques were used that include energy efficient systems, water management, waste management, use of low emitting materials, and sustainable material selection. While these soft sustainable elements are important the high-energy costs in the North make the hard energy efficiency measures of even greater importance. To achieve the highest possible ratings for LEED™ and CBIP the design team has integrated the use of day-lighting, MMV ventilation, displacement ventilation with heat

pipe heat recovery, low temperature in floor radiant heating and demand occupancy lighting control. The final EE4 CBIP application verified a reduction of almost 32% energy use referenced to the NECB, proving CBIP compliance and returning a total of \$70,000.00 in rebates.

Joamie School construction was managed through a multiple tender process. The original Joamie School was consumed by fire on July 4, 2003. FSC was retained immediately to assist the Government of Nunavut in a fast track design and construction process to replace the facility, while expanding the size to meet current enrolment projections. Civil and structural steel tenders were completed in early stages after the fire in order to get a jump-start on construction prior to the following years sealift.

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