

BSC Aquatic and Wellness Center



Bismarck, North Dakota

Electrical Construction: \$646,584

Year Completed: 2010

Project Manager: Mike Yri

Project Foreman: Jace Mitchell

General Contractor: Creative Construction

Project Type: Design/Build

It took many years and overcoming several obstacles for the Bismarck Aquatic and Fitness Center to come to life on the Bismarck State College campus. The 62,801 square foot facility houses

- a 50-meter Olympic-sized pool,
- a separate 25-yard pool,
- a diving area and space for lap swimming,
- a fitness center with strength equipment and cardiovascular equipment with personal viewing screens,
- an indoor playground,
- a group fitness/dance studio,
- meeting rooms, and
- a coffee shop.

The pool and building are heated with a unique Biomass heating system that burns wood chips as fuel and can be converted to burn natural gas as well.

When finally completed, the total project cost was approximately \$9.4 million, with a final electrical construction cost of \$646,584.

Bergstrom Electric served as a subcontractor to Creative Construction for most of the work on this design/build project, and started work in May of 2009. The building was officially opened on March 3, 2010 with final work on the indoor playground, special Biomass heating system, and a 2nd floor coffee shop continuing.

Bergstrom completed their portion of the project in June.

Bergstrom designed and built the electrical system for the

entire building. Crews installed a 2000 amp, 480/277 volt system and also installed the Biomass heating system, which was added after construction was well underway. Some details of the electrical construction include:

- 35,150 feet of conduit
- 398 light fixtures
- an elaborate sound system for the pool area (including speakers installed in the pool itself)
- an extravagant sound system for the dance and aerobics studio (with mixing capabilities to time music to choreography)
- an electronic timing system wired to the starting blocks and touch pads in the pool and then connected to the gigantic digital scoreboard.
- a unique, suspended light rail system that Bergstrom helped design and build to light the pool area.

The project presented a unique opportunity for Bergstrom to showcase its electrical design abilities, as well as its project management skills, working for several different owners and overcoming numerous schedule changes in the course of this very public and controversial project.

This project won the highest award possible in the 2010 National Independent Electrical Contractor's (IEC) competition and an Eagle Award from ABC MN/ND (Associated Builders and Contractors), and a 2010 Pyramid Award from ABC National.

