

CFMS CONSULTING INC.

PROJECT PROFILE



BRACEBRIDGE HIGH SCHOOL, RENE M CASSIE THEATRE AND SPORTSPLEX CENTRE BRACEBRIDGE, ONTARIO

The new \$41-million facility brings together state-of-the-art technology with an imagination-inspiring design. Bracebridge High School, Theatre and Sportsplex is located on Clearbrook Trail in Bracebridge.

Statistics:

Gross Floor Area
32,790 m² (353,000 sf)

Construction Cost
Total \$40,900,000
Mechanical \$6 million

Reference

Trillium Lakelands District
School Board
Mr. Craig Young
Sr. Mgr of Plan
705.645.8704

Sportsplex Statistics:

- A 12,000 sq. ft. Aquatic Centre, complete with leisure pool, therapeutic pool and eight-lane competitive lap pool
- A 10,000 sq. ft. gymnastics space complete with second-floor viewing gallery
- For runners and walkers, a second-story, threelane, rubberized track
- A 2,000 sq. ft. aerobics studio
- A 3,200 sq. ft. strength and stretching studio
- 5,300 sq. ft. community multi-purpose room complete with kitchen, bar and access to an outdoor patio

Theatre Statistics:

- 300 seats, balcony – classroom by day; community theatre by night providing a venue for professional theatre, lectures and musical performances

High School Statistics:

- 165,000 square feet on 2 levels
- Triple gymnasium
- New biology, chemistry, physics labs
- State-of-the-art communications lab with television and radio broadcasting capability
- 4 new shops - (auto, 2 manufacturing, and construction)
- Easy access to a swimming pool and indoor recreation
- Shared spaces are the indoor track, aerobics room and weight training room
- Shared kitchen area with cafeteria and Recreation Centre auditorium



Not only does the design surpass the requirements of the Ontario Building

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Code, the design incorporates such things as wide hallways, appropriate floor finishes, textures, colours and lighting. Drawing on the natural beauty and restorative nature of the rugged Muskoka landscape, this is a place where children and adults can explore, interact, relax and learn in an exhilarating environment.

Services provided by CFMS:

- Verification of DDC system and BAS
- Performance testing of HVAC systems
- Co-ordination of mechanical equipment and systems training including video-taping
- Preparation and presentation of systems operating manual
- Seasonal performance testing of HVAC systems

HVAC systems include for:

- Two air-cooled chillers (1000 tons cooling total) providing chilled water for recreation centre and high school AHU cooling coils
- Two heating plant (10,5000 Mbh (total) natural gas forced-draft boilers) for winter space heating, domestic water heating & pool heating
- Custom AHUs with SF & RF VSDs, heat recovery (on 100% OA applications) & steam humidification
- Over 100 VAV boxes with reheat coils & over 50 miscellaneous exhaust systems
- Glycol systems for AHU pre-heat coils
- Emergency diesel generator with storage tank/day tank fuel oil pumping system
- Dehumidifier system for the pool areas with condenser water pre-heat loops for swimming & therapy pool water heating