

RICK HANSEN **SECONDARY SCHOOL**



OWNER: Peel District School Board
Mississauga, Ontario

DESIGN AND CONSTRUCTION TEAM

Mechanical Consultants: MCW Consultants Ltd.
Electrical Consultants: MCW Consultants Ltd.
Architect: Carruthers Shaw & Partners Limited

PROJECT DESCRIPTION

The academic program of this new three storey school includes high technology and hospitality training in addition to standard Grade 9 - OAC courses. To serve these programs computer and robotics labs, video animation and live-action studios, and a large commercial kitchen are included in the building. The use of three-storey high atriums, balconies and large interior corridors gives the school a mall-like ambiance that facilitates student movement and mingling. The skylights provide significant day lighting. Classrooms backing onto the atrium have glazed interior walls so that they can benefit from this day lighting.



SYSTEMS DESCRIPTION

Mechanical

- One 400 ton centrifugal chiller using HCFC -123 refrigerant
- Three gas fired, natural draft, hot water, copper finned tube boilers for heating
- Induced draft cooling tower
- Custom factory fabricated constant volume air handling units with return fans
- Direct Digital Control building automation system

Electrical

- 347 V fluorescent lighting utilizing T8 lamps and electronic ballasts.
- 120/208 V and 600 V power distribution, including separate power panels for each lab and shop, individually controlled-power 'on' - 'off' button.
- Fire alarm system is single stage, microprocessor based, fully addressable.
- The P.A./telephone system is fully integrated utilizing touch-tone handsets in each classroom and office for interior / exterior communication.

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