

## YORK CATHOLIC DISTRICT SCHOOL BOARD

## ADMINISTRATION HEAD OFFICE BUILDING



**OWNER** York Catholic District School Board  
Aurora, Ontario

### **DESIGN AND CONSTRUCTION TEAM**

Mechanical Consultants: MCW Consultants Ltd.

Electrical Consultants: MCW Consultants Ltd.

Design Build Contractor: Buttcon Construction

Architect: Zawadski Armin Stevens Architects Inc.

### **PROJECT DESCRIPTION**

The building is four storeys with one below grade parking level.

The first level contains common functions such as the kitchen / cafeteria, print shop, archives, computer room, etc.

The three upper levels are built as two wings off a common circulation hub. The ground floor contains the chapel and library areas, as well as trustee's office and main boardroom.

All other office functions are contained in the upper two levels. An attached building contains maintenance functions such as a wood shop, garbage & recycling areas and warehouse storage.

### **SYSTEMS DESCRIPTION**

#### **Mechanical**

- Hybrid Ground Source Heat Pump system using a vertical core feed and cooling tower
- On floor compartmental ground source heat pumps providing zoned perimeter and interior control
- Central DDC Control System
- Building is fully sprinklered

#### **Electrical**

- 44KV Power was obtained from Newmarket Hydro and a customer owned 44KV substation was provided in the lowest building level. The secondary service is rated at 3000 amp 600/347 Volt
- The subdistribution is split into the two amp to ease ongoing maintenance and operation of the facility
- A complete CCTV and door entry security system was installed
- A single stage fire alarm system was provided throughout the main campus system.
- A 200 KV generator was provided in the penthouse to serve all life safety components in the building
- The main office lighting utilized 20" x 60" fixtures with T8 lamps - one of the first projects to utilize this energy efficient technology.