

# Harry J. Clarke Public School



## Client:

Hastings & Prince Edward District  
School Board

## Location:

Belleville, Ontario

## Start Date:

Summer 2013

## Completion Date:

Fall 2014

## Construction Value:

\$2.8 million

## Key Personnel:

**Bill Weekes** CET RCDD CFOT

**Bill Vanderlans** RCDD

**Monica Alcolea**

**Kenji Tan**

## Services Provided:

- Project Management
- Conceptual Design
- Design Development
- Construction Documents
- Construction Administration
- Commissioning
- Close-Out Documentation

**Project Type:** Design-Bid-Build

**Project Role:** IT/Communications & Electronic Security Design Consultant

**Description:** Harry J. Clarke Public School is located in the heart of Belleville's residential east end and serves 700 students from junior kindergarten to Grade 8. Harry J. Clarke also offers a French immersion program for students in Grades 4 to 8. Built in 1961, the school was further expanded in 1962, 1963 and 1990 to 4500m<sup>2</sup> of floor area.

This new \$2.8 million expansion features four full day kindergarten classrooms, two primary classrooms, one common room, parking, and related site improvements.

Fancom was provisioned to assess the existing IT/communications and electronic security systems and further integrate and expand the existing data network, voice, PA, video security and intrusion detection systems into the new classrooms. Design considerations included the available systems' capacity, remaining product life cycle and access of physical pathways for cabling between the new addition and each of the systems' 'Head End' locations within the existing school:

1. Area serving network switches (library, computer lab)
2. PBX phone systems (basement)
3. Public address amplifier (main office)
4. Video management system (VP office)

A new dedicated IT room was created within the existing building near the expansion area.

- All data (digital) and low voltage (analog) services cabling from the new addition terminate in the new IT room
- Newly acquired WAN connectivity, 100MB fibre, was introduced to the school making the IT room the new network core hub
- New backbone cables from the IT room are connected to the existing area serving network switches to the new core switch, new addition telephones to the existing PBX, new addition PA speakers to the existing amplifier, and existing video cameras to the relocated video management system in the IT room

Overall, the communications infrastructure has been expanded by 15 work area data outlets, 5 wireless data access points, 7 telephones and 12 PA speakers. The security system was expanded by 12 video cameras and 3 motion sensors.