

# GO Transit Control Centre

## CLIENT

Metrolinx

## LOCATION

Oakville, Ontario

## Project Description

The is located in Oakville, ON, with a property size of 4,400 sq. m. of land. This state-of-the-art facility is LEED Certified Gold in accordance with the Canadian Green Building Council and features:

- IT, lighting, ergonomics, security, and sound proofing
- Collaborative operational floor (cathedral style)
- Raised floor
- Thermal comfort
- Video wall-display systems
- General office areas
- External support rooms
- Wellness centre
- 7/24 operations with robust communications and control systems to support uninterrupted service

## Benefits to Client and Problems Solved

The logistics of the site made it a challenging work area. There was no laydown area. B&M worked with the client to prefabricate numerous items before bringing them onsite, minimizing laydown area needs and site issues. No labour force could be brought in from IBEW local 353 (GTA) other than Site Foremen. Only IBEW local 105 (Hamilton) labour could be used due to being considered a resident contractor in the Hamilton local area. B&M worked closely with other local unions to ensure the construction was being completed on time and on budget. Black & McDonald installed a 100 ft. video wall, which at the time was the biggest in Canada. B&M delivered all construction milestones ahead of schedule and won a bonus for its quality work.

# GO Transit Control Centre

## B&M Scope of Work

Black & McDonald's (B&M) electrical scope of work includes supply and installation of a fully operational electrical and communication system. Considering the 7/24 operation, the critical nature of the building, and the heavy electrical loads within, the electrical scope of work includes:

- Supply and installation of video wall-display systems complete with robust communications and integrated controllers
- Power distribution
- Lighting
- Data and communications services
- Safety and security systems
- Fire alarm system
- Integrated building automation systems
- Integrated audio and video control systems
- Generators
- Uninterruptable power supply (UPS).

Black & McDonald's mechanical scope of work includes the supply and installation of a fully operational mechanical system. The 7/24 operation, the critical nature of the building, and the heavy mechanical loads within, call for:

- Chilled water system
- Heating system
- Data centre HVAC
- Operations room

- Rail traffic control and supporting spaces HVAC
- Battery room
- Generator room
- General building ventilation, including stairwells and vestibules
- Loading dock ventilation
- Chiller, Mechanical, Unit Substation, and Switchgear rooms ventilation
- Underground diesel storage system complete with all accessories
- Plumbing and Drainage
- Domestic hot water
- Plumbing fixtures
- Emergency eye wash stations
- Sanitary drainage
- Storm drainage
- Natural gas and piping
- Fuel and oil piping
- Fire Protection Systems
- Water supply
- Standpipes
- Sprinklers
- Portable fire extinguishers
- Clean agent fire suppression
- Control and Monitoring of building systems.

