



### Project Description

Newton Group worked as the Design-Builder for the Parking Structure at the Centennial GO station in Markham for Metrolinx. The parking structure was part of a larger project managed by Sims Moelich Associates Ltd.

Design considerations included clear sightlines, bright lighting, clear span structure without internal columns, slip resistant floors. Safety and security are inherently designed into the system for the benefit of all users and follows the CPTED (Crime Prevention Through Environmental Design) standards.

The 7.5 multi-level parking structure was constructed using the CANADACAR System. Using a split level layout, each bay is half of floor higher than the previous. This efficient design uses the drive aisle between bays to ramp up the half level. Therefore no full dedicated ramps are required.

The modules for the structure were 18m and the facade consisted of thin in-lay brick in precast concrete. Stairwells were encased in glazing. All the structural steel was hot-dipped galvanized beams and columns. The CANADACAR system is the first of its kind in North America however is backed by over 30 years of experience in Europe.


### Project Details

Completion Date	October 2011
Contract Type	Design-Build
Owner	Metrolinx
Number of Spaces	449
Materials	Steel + Precast Concrete
Gross Floor Area	138,565 sf
Project Team	
General Contractor	Sims Moelich Associates Ltd.
Design-Builder	Newton Group Ltd.
Engineer	Tacoma Engineers Inc.
Architect	Robin Clark Architect

### References

Owner:	Ms. Suganthi Kathiravelu-Lem
Title:	Project Manager
Phone:	416-869-3600 x 4541

### Location

 320 Bullock Dr. Unionville, ON L3P 7S6



“From a business perspective, Newton’s system is also cost-effective. It helped GO achieve significant capital cost savings and with a highly competitive life span, maintenance costs are reduced.

GO is pleased with this steel framed precast structure for its functionality, cost effectiveness and ease of maintenance.”

**Suganthi Kathiravelu-Lem**  
Project Manger GO Transit

Centennial GO Station - Markham





