

Heartland Business Community - Parking Garage

The Heartland Business Community Parking Garage was undertaken for Orlando Corporation in summer 1998 with construction work starting in November 1998. The garage will largely serve the office building at 55 Standish Court.

LEA provided professional services in the field of Functional Planning, Preliminary and Final Structural Design and Construction Review for a new multi-level precast concrete parking structure as part of the new Heartland Business Community being developed by Orlando in Mississauga just south of Highway 401 and on the west side of Highway 10, Hurontario Street.

The new Business Centre will be Mississauga's largest multi-tenant office building comprising 480,000 square feet and will be ready for occupancy in the fall of 1999. Amenities available to tenants of Heartland include a 71,500 sq. ft. retail shopping complex, major retail banks, commercial banking centres, hotels, restaurants, and nearby housing.

The four (4) level parking garage comprises approximately 600,000 sq. ft. and includes parking spaces for 1,750 vehicles in Phase



Views of garage showing glazed stairwell details.

1 with allowance for future expansion for an additional 627 spaces.

The parking garage was constructed using mainly precast concrete elements except for footings and stairwells, which were constructed of reinforced, cast-in-place concrete.

The precast concrete double "T" floor beams were finished with a 3" to 6" thick reinforced concrete topping. Stairwells located around the perimeter of the garage include large glazed panels at their exterior faces to aid in pedestrian

security and allow for natural light to enter the stairwells.

Vehicles access each level using two sloped parking floors and have four locations to enter and exit the garage.



Typical spandrel fascia and landscaping details.

PROJECT SUMMARY

Client:
Orlando Corporation

Location:
Mississauga, Ontario, Canada

Services Provided:
**Functional Planning,
Structural Design and
Construction Review**

Date of Completion:
2000