

# Wal-Mart Truck Distribution Centre

*Supply Chain Management (SCM) is a logistics provider for Wal-Mart worldwide. LEA Consulting Ltd. was retained by Metrus Properties Ltd. to provide Transportation Planning services in order to develop an SCM Truck Distribution Centre. The SCM facility would be an automated “state-of-the-art” complex, capable of efficiently collecting and sorting goods for delivery to approximately 100 Wal-Mart stores in the provinces of Manitoba and Ontario.*



The facility would require a parcel of land exceeding 100 acres, would require a building of approximately 1,000,000 square feet, and parking for approximately 1,000 truck trailers and 800 employee vehicles.

Sites were reviewed in Brampton and Mississauga. In addition to finding undeveloped land parcels exceeding 100 acres in size, criteria for selection included proximity to freeway and arterial roadways, access and available road capacity.

Travel characteristics for the proposed facility were reviewed in detail with SCM. The main

elements that had to be considered in the distribution of traffic included:

- Consolidation of several existing truck distribution centres into the planned larger facility and where existing employees would be coming from;
- Retail store destinations – Ontario and Manitoba;
- Origin of shipment of goods into the facility;
- Intermodal shipping arrangements;
- Truck trip projections on a daily basis and by the hour;

- Internal truck operations and relation to storage requirements and noise impacts;
- Employment projections and home postal code information for current employees.



## PROJECT SUMMARY

Client:

**Metrus Properties Ltd.**

Location:

**Mississauga, Ontario, Canada**

Services Provided:

**Transportation Planning**

Geometric considerations for truck movements internal to the site were reviewed in detail. Consideration was given to adequate queuing and storage requirements at gate locations and intersections. Geometric

requirements were also considered on external roads. Operational traffic analyses were undertaken to determine road improvements necessary to accommodate the planned facility.

A site was selected along Hurontario Street in Mississauga, just north of Highway 401 in the Fletcher's Creek Business Park.

