

KIPLING TRANSIT HUB

CASE STUDY



OVERVIEW

This project integrates TTC subway, GO regional rail, and local and regional bus services (GO, TTC, MiWay) into a single hub through a new inter-regional bus terminal and other supporting infrastructure.

PROJECT DETAILS

Contractor: EllisDon
Architect: Strasman Architects
Engineer: WSP Canada Inc.
Contract Value: \$4 M
Tonnage: 850 Imperial Tons

OUR ROLE

Supply and erection of structural steel and metal deck, as well as the structural steel pedestrian bridge over the train tracks.

APPROACH

Steelcon was awarded this project in 2018 and the design consisted of large/long span trusses with intermediate secondary wide flange beams. The project also had a very aggressive schedule.

Part of the challenge for this project was the procurement of the long span trusses, which at the time had an extremely long lead time. The client was concerned that procurement would significantly delay their schedule. There had also been concerns regarding the overall budget as the design was not yet 100% finalized.

In order to assist with this challenge, Steelcon offered our design/assist services and utilization of SIN beam to replace the long span trusses along with the secondary beams to order to achieve the schedule and maximize cost savings. Another challenge was to replace the trusses while maintaining their overall shape and tapered edges, which served as an architectural feature to the building.



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RESULTS

Steelcon effectively implemented SIN beams into the design to replace large span trusses, resulting in significant savings passed to the client.

Steelcon's engineers also took full responsibility of the roof structure design as they successfully redesigned 80% of the roof members, which assisted with meeting the overall budget and schedule.

Steelcon's engineers successfully designed the custom tapered trusses, which not only met the design requirements but also served to suit the architect's overall vision.

