



# OPENING TO TRAFFIC MONDAY, JUNE 20, 2016

Commuting to work or just getting around in Durham Region will be easier Monday morning with the opening of Highways 407 and 412.

In a little more than four years, more than 148 new lane kilometres and 11 new highway interchanges were designed and built.

With the construction of the highways, more than 147 hectares of forest, meadow and wetland are being restored and landscaped, including the

planting of some 650,000 native trees and shrubs, all supported by locally sourced native wildflower and grass seed.

This includes planting of 705 butternut trees, the creation of 22 kiosks for Barn Swallows, restoration of 35 hectares of habitat adjacent to watercourses for the Redside Dace, and 32 hectares of new nesting habitat for the Bobolink and Eastern Meadowlark – all species at risk.

# OFFICIAL RIBBON CUTTING

Minister of Transportation Steven Del Duca marked the end of construction of the \$1 billion project at an official ribbon cutting ceremony today June 17 on Highway 407 at Brooklin.

“The new Highway 407 will not only encourage economic opportunities for the Durham Region but will also provide an alternate route for commuters and travellers,” Minister Del Duca said.

407 East Development Group (407EDG) was selected by the Ontario Ministry of Transportation and Infrastructure Ontario in 2012 to design, build, finance and maintain Highway 407 East Phase 1. The consortium’s key members include Cintra Infraestructuras S.A. and SNC Lavalin.

At the height of construction in 2015, more than 50 local contractors and more than 1,000 employees were at work at various locations on site. In total, more than 3.2 million person hours were required to complete the project. The majority of the work was done by local contractors. Asphalt,

steel, concrete and other materials required for the project were sourced from local firms.



## SAFELY DELIVERED

“We are particularly proud of our safety record on this project,” Steve Hankins, CEO of 407EDG, said.

No one was allowed onto the construction site without undergoing extensive safety and environmental protection training and orientation. In all, 4,988 people, including contractors and their employees received training between 2012 and today.

As well, more than 1,000 workplace inspections were conducted by 407EDG and its Joint Health and Safety Committee and 10 Safety Management System audits were conducted by external agencies.

As a result, there were no serious injuries and the Lost Time Injury Rate on the project was 90 per cent lower than the Ontario construction industry rate.

407EDG achieved the Certificate of Recognition (COR) for its safety re-

cord, which is the Ontario construction standard, and successfully maintained it throughout the project.

## MAINTENANCE BEGINS IMMEDIATELY

With construction of the project complete, maintenance of Highways 412 and 407 between Brock Road and Harmony Road begins and drivers will see crews at work all along the project route.

Minor construction elements need to be completed. These include landscaping and general clean-up.

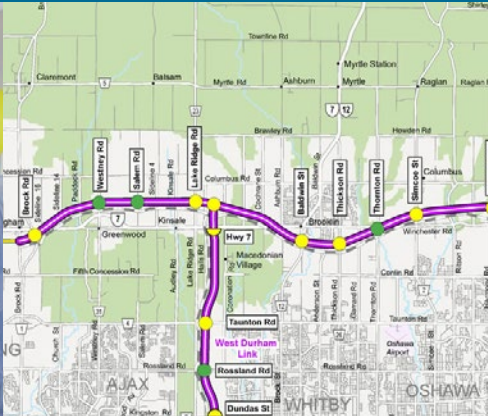
As well, commuters will likely encounter some lane closures and restrictions in the next few months as some finishing touches and the tolling infrastructure is installed.

Interchanges will be partially closed six to eight days to assure that the tolling infrastructure can be installed and tested, as safely and efficiently as possible.

Some night-time single lane closures will also be required. The sequence and duration of closures will be planned to achieve minimal disruption to users and the closures will be communicated to the public in advance of planned closures.

407EDG is responsible for maintenance, including snow removal, for the next 30 years. To maintain the highway, 22 full-time employees have been hired and will work from a new maintenance facility at Salem Road north of Highway 7. Local contractors will be hired on an as-needed basis.

“We appreciated the co-operation and support from all the municipalities, and thank the community for its patience and understanding during the construction of this massive project. We look forward to opening it to traffic on Monday morning,” Hankins said.



# HOW 407 EAST PHASE 1 WAS BUILT

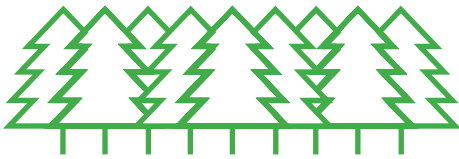
407 East Phase 1 was developed using Infrastructure Ontario's Alternative Financing and Procurement (AFP) model. The Ministry of Transportation established the scope and purpose of the project and the work was financed and carried out by 407EDG. Once the project was completed according to contract, only then did 407EDG receive payment from the province.

The AFP model allows large, complex infrastructure projects to be delivered faster and more efficiently (at a lower, long term net cost) than traditional procurement, protects taxpayers from cost overruns and transfers project risks to the partner who has the expertise, experience and ability to handle that risk best.



# THE ENVIRONMENT

More than 147 hectares of ecological restoration comprised of:



**68 hectares of forest**



**57 hectares of meadow**



**23 hectares of wetland**

- 650,000 native trees and shrubs planted
- 705 butternut tree stems planted
- 22 nesting kiosks for barn swallows constructed
- 35 hectares of habitat restored adjacent to 12 watercourses for the red side dace
- 32 hectares of nesting habitat being created for bobolink and eastern meadowlark

# CELEBRATING OUR CULTURE

To mark the rich history of Durham Region, bridges have been embossed with symbols and historical plaques will be erected.

The embossment on the Baldwin Street bridge acknowledges the local agricultural community and the milling industries that supported it. The decorative motifs installed on the bridge’s parapet walls and abutment wing walls are a wheat sheaf and millstone/grindstone. A commemorative site with a plaque to complement the heritage motifs will be located in the Baldwin Street commuter parking lot.



In consultation with the seven First Nations of the Williams Treaties, the Simcoe Street bridge in Oshawa has been embossed with symbols and images that are important to the Anishinabek people. On the bridge abutments are the Turtle representing ‘Turtle Island’ or ‘Mother Earth’; the medicine wheel with seven feathers; and, a braid of sweet grass. Across the span are symbols which are significant to each of the individual First Nations of the Williams Treaties. These important images will be visible to motorists travelling in both directions on the highway and the bridge will be a lasting reminder that they are travelling through the traditional territory of the Williams Treaty First Nations.



# JUST THE FACTS



**31 km**  
total in length

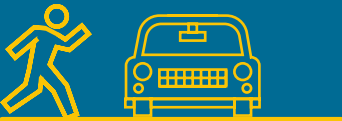
21 km - Highway 407 from Brock Road to Harmony Road

10 km - Highway 412

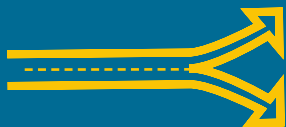


**Four to six lanes**

resulting in a total of 148 lane km



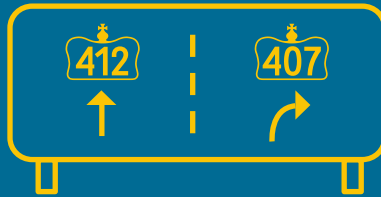
**16** Road crossings



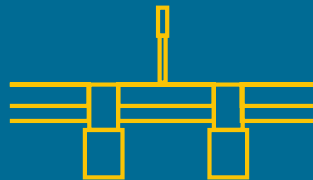
**11** interchanges



**35** Stream crossings



**2** Highway-to-highway interchanges



**More than 70** structures including bridges and culverts



**64** high mast light fixtures



**13,460**

metres of concrete barrier walls

# HOW IT STACKS UP



	CN Tower	407 East Phase I
Earth Excavation (Metric Tons)	55,116	18,000,000
Concrete (Cubic Metres)	40,524	33,026
Rebar (Metric Tonnes)	4,535	14,114
Workers at Peak of Construction	1,532	1,000
Duration of Construction (Months)	40	42

407 EAST PHASE 1

Deck Area (Square Metres)	98,480
Number of Girders (Number)	980
Asphalt (Metric Tons)	700,000
Granular (gravel, etc.) (Metric Tons)	3,400,000