

Southern Highways Program

2010 to 2014



Girder Installation



QEW Bridge Rehabilitation

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A sustainable transportation system is one that recognizes and supports our current needs while balancing social, economic and environmental considerations.



Overview

Southern Highways - The Foundation for Economic Growth and Job Creation

Since 2003, the McGuinty government has made it a priority to invest in infrastructure throughout the province. When the recession hit, Ontarians had to cope with sudden, unexpected job losses that devastated individuals, family and communities. The 2010 Budget has responded with an aggressive job creation plan that includes a \$32 billion dollar stimulus investment. The McGuinty government has established a five-year plan to Open Ontario to new jobs and economic growth. The Open Ontario plan will create an Ontario even more open to new ideas, new people, new investment and new jobs. This Budget has charted a course to a stronger economic future for the people of Ontario.

Our commitment to infrastructure is particularly important to the provincial highway system which is critical to Ontario's economy and quality of life. Over the past seven years, Ontario has invested record amounts in our provincial transportation network.

This year, the government will invest \$1.17 billion in the Southern Highways Program for the rehabilitation and expansion of Ontario's roadways. This funding is in addition to the \$418 million to replace and repair Ontario's bridges over the next three years. These investments will create jobs, connect communities and support new and innovative green practices, such as recycling pavement for highway construction throughout Ontario.

Pavement recycling uses traditional construction materials (like reclaimed pavement) and non-construction materials (such as roofing shingles, glass and ash) for use in repaving Ontario's highways. This practice has made Ontario a North American leader in 'greening' transportation construction projects.

Ontario has also opened the door to other innovative construction methods such as rapid bridge replacements. First introduced to Canada in 2007 by the Ministry of Transportation, this innovative technology reduces the amount of time needed to complete a full bridge replacement from 1-2 years to 72 hours.

Our government's commitment to infrastructure is critical to building and strengthening Ontario's economy. Our investments under the Southern Highways Program are putting Ontarians to work.

For every \$1 million spent on highway construction, approximately 10 jobs are generated or sustained. This year's investment in Ontario's highway infrastructure will create or sustain an estimated 10,500 jobs.

We will continue to work closely with all levels of government, our communities, municipalities, and First Nations to ensure Ontarians have access to an efficient, sustainable and safe transportation network.



2009 Highlights & Completed Construction

In 2009, the Ontario government invested almost \$1.16 billion to expand and repair southern Ontario highways. Some of the many highway projects completed in 2009 are highlighted below. A list of all major southern Ontario highway projects completed last year has also been included for reference..

Highway 33 Roundabout Prince Edward County

The roundabout (completed in July 2009) is the first ever on a provincial highway in Ontario. The intersection used to operate under “stop control”, meaning that vehicles on County Road 1 had a stop sign and would have to wait for gaps in traffic before entering Highway 33. Intersection modifications were required to address a number of deficiencies, such as a very sharp angle between the two roads, and delays to side road traffic.

The preferred solution to address the issues at this location was modern roundabout. The new intersection is a one-lane roundabout with posted speeds of 80 km/h on the north and west approaches, and 60 km/h on the east and south approaches. It is expected to achieve the following benefits:

- Reduced Delays - delay is significantly reduced by yielding at the entry of a roundabout, rather than stopping and waiting for a green light at a signalized intersection; or waiting for a gap in the traffic at a stop sign.
- Increased Capacity - High volume of left turns are better handled by a roundabout than a traffic signal.
- Reduced Speeds - A reduction in speed is necessary to negotiate the roundabout, whereas vehicles may not slow down during the green phase of a traffic signal.
- Improved Safety - Reducing the number of vehicular conflict points and reducing speeds, in turn, reduces the potential for severe collisions and serious injury.
- Environmentally Responsible - Reduced delays mean

reduced fuel consumption and improved air quality by reducing emissions.

- Reduced Maintenance Costs - The roundabout eliminates maintenance and electricity costs associated with traffic signals.
- Aesthetically pleasing - The central island provides an opportunity for landscaping within the roundabout island.



Highway 33 Roundabout, the first ever roundabout on a provincial highway in Ontario

2009 Southern Ontario Accomplishments

Building of new highways	80 km
Building of new bridges	15
Repairing highways	313 km
Repairing bridges	36



2009 Highlights & Completed Construction

Widening of Highway 417 From Highway 416 to Eagleson Road

Widening Highway 417 from four to eight lanes for 6.5 km, from Highway 416 west to Eagleson Road, was completed in 2009. In addition to widening the highway, construction included: pavement rehabilitation, widening of the east and westbound bridges over the CNR, the addition of retaining walls, lighting and drainage improvements, overhead signs, ramp modifications, and roadside safety improvements.

Highway 417 is a major east-west corridor that serves both inter-city and commuter traffic. The growing population and employment within Kanata, Carleton Place, Arnprior and other communities has lead to significant congestion periods on the four-lane portions of the highway during peak hours. These improvements will enhance traffic flow and increase safety for users of the Highway 417 corridor.



Hwy 417 widening underway

Highway 7 Improvements Highway 28 to Drummond Line, Peterborough

Work was completed this year to widen the section of Highway 7 from Highway 28 to Drummond Line from two to five lanes including a two-way left turn lane. In addition to widening Highway 7 construction also included: intersection enhancements (including left and right turn lanes); improved access to Highway 28; replacement and extension of culverts; and enhancements to the commuter parking lot at Highway 7 and Highway 28. The parking lot featured the installation of LED energy efficient lighting to encourage the use of carpooling while enhancing safety.

For the estimated 17,000 vehicles traveling daily on this section of Highway 7 this work will increase traffic capacity, relieve congestion and help in reducing green house gas emissions



Hwy 7 completed improvements

Pavement Preservation as a Sustainability Strategy

The Ministry of Transportation is dedicated to maintaining quality roadways in a sustainable manner. Over the last 10 years, MTO has implemented pavement preservation strategies to maximize cost savings in repairs and maintain pavement condition. Pavement preservation treatments improve pavement quality and durability, and extend pavement service life while reducing energy consumption and green house gas emissions.

2009 Highlights & Completed Construction

Rehabilitation of Highway 12 Coldwater to Prices Corners

The rehabilitation of Highway 12 was completed in 2009 improving riding comfort and safety for road users of the 19 km section from Coldwater to Prices Corners. Construction included intersection improvements, the addition of a 2.5 km east bound truck climbing lane, roadside safety improvements, upgrading signage and relocating an existing car pool lot.

This reconstruction of Highway 12 will provide long term improvements to meet existing and future traffic demands by improving traffic capacity, operation and safety.



Hwy 12 Rehabilitation

Bridge Replacement Highway 7 West Duffins Creek Bridge, Pickering

In 2009 the West Duffins Creek Bridge on Highway 7 in the City of Pickering was replaced. Construction included: replacement of the West Duffins Creek crossing structure, shoulder widening of roadway approaches to the Bridge, pavement rehabilitation, and other Bridge upgrades that will allow for future widening.

Advance structure replacements like this project are in preparation for four-laning of Highway 7 for 13 km, from Brock Road to Highway 12, which is scheduled to begin in 2010 and be opened by 2012.

Highway 401, Windsor to Tilbury Phase 5, Essex Road 25 to Essex Road 27 (Border Infrastructure Fund)

Widening and rehabilitation work along the 47 km of the Windsor to Tilbury corridor will improve safety and traffic flow on one of Ontario's most important trade corridors.

The fifth and final phase of construction to widen Highway 401 between Windsor to Tilbury began in 2008 and finished in 2009. Work included: widening 7.2 km of Highway 401 from four to six lanes, rehabilitation of Maidstone Township Road 3 and Rochester Township Road 2 underpasses, widening of Belle River Bridge, widening and rehabilitation of Belle River overpass and Duck Creek Bridge, repairs to Big Creek Bridge and construction of a commuter parking lot at Belle River Road interchange.



Hwy 401 widening and rehabilitation work completed

2009 Highlights & Completed Construction

Red Hill Creek Expressway Interchange, QEW Burlington Street to Centennial Parkway

A major new interchange linking the QEW and Red Hill Creek Expressway (RHCE) was opened to traffic in 2009. This project was the final phase in a larger construction plan that included a new interchange and widening from 6 to 8 lanes between Woodward/ Beach Boulevard and Centennial Parkway.

Construction included: reconstruction of Burlington Street to Woodward Avenue and the QEW/Burlington Street interchange, QEW widening from 6 to 8 lanes, median reconstruction, improved lighting, noise barriers, and drainage improvements. A wetland was constructed and enhanced to provide environmental compensation to the area.



QEW to Red Hill Creek Expressway interchange completion

This new interchange was constructed to accommodate a new eastbound connection to RHCE that extends through the Burlington Street interchange to avoid weaving conflicts. Separate connections at the Burlington Street interchange provide access to QEW eastbound and the RHCE southbound. These separate connections form a basket-weave arrangement with the RHCE ramps.

Rehabilitation of Highway 77 Leamington to Staples

The improvements made to this section of Highway 77 from Essex County Road 33 to Essex County Road 8 will improve highway service to the Town of Leamington and surrounding area by providing improved long-term pavement structure, operational and geometric improvements and improvements to drainage and culverts.

Construction included: pavement rehabilitation, minor road widening, a new entrance at Industrial Lane, intersection improvements, extension of the eastbound acceleration lane, as well as drainage and safety enhancements



Hwy 77 rehabilitation improvements completed

2009 Completed Expansion Projects

Southern Ontario

Hwy	Location	Type of Work
Eastern Ontario		
OQW- 417	Hwy 416 to Highway 7 - Phase 1 of 4 - Hwy 416 interchange westerly to Eagleson Rd. (High Occupancy Vehicle lanes)	6 to 8 lane widening
OQW- 417	Hwy 416 to Anderson Rd. - Phase 4A - Nicholas St. to Regional Rd. 174	Resurfacing/interchange improvements
Western Ontario		
3	Leamington to Windsor - Phase 1 - from west Jct. Essex County Rd. 34 easterly to 0.6 km east of County Rd. 8	2 to 4 lane widening
401	Lambton Rd. 79 interchange, Watford (partnership with the County of Lambton)	Interchange improvements
402	Windsor to Tilbury - Phase 5 - from 0.8 km west of Puce Rd. easterly to 2.5 km east of Essex County Rd. 27 (Border Infrastructure Fund)	4 to 6 lane widening

Greater Golden Horseshoe

Hwy	Location	Type of Work
Central Region		
7	Brock Rd. to Hwy 12 - East Duffins Creek Bridge, Durham Region (FLOW)	Bridge expansion
10	Caledon to Highway 9 - Phase 1 of 2 - 1 km north of Regional Rd. 24 to Hwy 9	2 to 4 lane widening
10	Caledon to Highway 9 - Phase 2 of 2 - 1 km south of Regional Rd. 24 to 1 km north of Regional Rd. 24	2 to 4 lane widening
26N	Wasaga to Collingwood - Phase 2 of 3 - Fairgrounds Rd. and Batteaux River Bridges	New bridges
400	Teston Rd. interchange (partnership with York region)	New interchange
401	Hwy 410 to Trafalgar Rd. - McLaughlin Rd. (partnership with the City of Mississauga)	Bridge replacement
404	Hwy 404 Extension - Phase 2 - Mount Albert Rd. underpass (FLOW)	New bridge
410	Boivard Dr. to Hwy 10 - Phase 3 of 3 - Mayfield Rd. to Hwy 10 (partnership with the City of Brampton)	New 4 lane highway
QEW	Red Hill Valley Parkway to Burlington St. - Phase 3 of 3 - QEW widening and Burlington St. interchange	Widening/new interchange

2009 Completed Rehabilitation Projects

Central Ontario

Hwy	Location	Type of Work
6	Hwy 403 to Hwy 5, Hamilton	Reconstruction/new interchange/truck climbing lane/ noise barrier/median barrier
7	West Duffins Creek, Markham	Bridge replacement
12	Prices Corners to Coldwater	Reconstruction/bridge rehabilitation/intersection improvements/ truck climbing lane
400	Hwy 11 to Forbes Rd., southbound lanes, north of Barrie	Resurfacing
401	Rouge River Bridge, Toronto	Bridge rehabilitation
405	Queenston Lewiston Bridge Toll Plaza to QEW, Niagara Falls	Reconstruction/bridge rehabilitations/variable message signs
427	QEW to Hwy 401, southbound express lanes, Toronto	Reconstruction/bridge rehabilitations
401	Noise barrier at Keele St., North York	Noise Barrier
10	King St. northerly to south of Forks of the Credit	Resurfacing
7	Columbus Rd., Brooklin	Intersection improvements/traffic signals
48	Elgin Mills Rd., Markham	Traffic signals
401	McLaughlin Rd. to Winston Churchill Blvd., Mississauga	Resurfacing
401	James Snow Parkway to Halton/Wellington Boundary, Milton	Resurfacing
401	Kennedy Rd. to Pickering, Toronto/Pickering	Overhead signs
401	Markham Rd. to Warden Ave., eastbound express lanes	Resurfacing
401	Sixth Line, Milton	Bridge rehabilitation
various	Various Highways within Central Ontario	Selective resurfacing
various	Various Highways within Central Ontario	Bridge rehabilitations

2009 Completed Rehabilitation Projects

Western Ontario

Hwy	Location	Type of Work
3	Grand River Bridge, Cayuga	Bridge rehabilitation
6	Grand River Bridge, Caledonia ByPass	Bridge rehabilitation
6	Mar to Ferndale	Culvert replacements/rehabilitations, various locations
10	Orangeville to Flesherton	Culvert replacements/rehabilitations, various locations
21	Lambton Rd. 79 to Grand Bend	Resurfacing
21	Bayfield River Bridge	Bridge rehabilitation
23	Listowel to Palmerston	Resurfacing
77	Leamington to Staples	Reconstruction
89	Conn to Shelburne	Resurfacing
401	Townline Rd., Cambridge to West region boundary	Resurfacing, various locations
401	Putnam Rd. to Sweaburg Rd., west of Woodstock	Resurfacing, various locations
402	Strathroy to Delaware	Resurfacing, various locations
Ferry Docks	Leamington, Pelee Island and Kingsville Ferry Docks	Dock scour rehabilitations

2009 Completed Projects

Eastern Ontario

Hwy	Location	Type of Work
7	Drummond Line to Peterborough	Resurfacing/left turn lane
7	Lennox Addington/ Hastings County Line to Hwy 37	Resurfacing/passing lane
7	Norwood, east to west limits	Resurfacing
33	Prince Edward Rd. 1, west of Picton	Intersection improvements
34	Vankleek Hill to Green Lane Rd.	Resurfacing
41	Cloyne to Bon Echo Park	Resurfacing
60	Kearney and Headstone Bridges, Whitney	Bridge replacements
115	Peterborough Rd. 28 overpass - northbound, and Hwy115 southbound exit ramp at Hwy 7A, Springville	Bridge rehabilitation/ramp improvements
401	Lennox and Addington Rd. 4 underpass (Interchange 593), Kingston	Bridge rehabilitation
401	Gananoque River Bridge, Gananoque	Bridge painting
401	Upper Canada Rd. to Carman Rd., Morrisburg	Resurfacing
33	Wolfe Island Ferry Terminal	Ramp/dock rehabilitation
7	Maberly to Sharbot Lake	Resurfacing
28	Young's Point Rd. to Burleigh Falls	Resurfacing
60	Deacon to Golden Lake	Resurfacing
62	Ivanhoe to Quin-Mo-Lac Rd.	Resurfacing
115	Hwy 35/115 split to Kawartha Lakes Rd. 32	Concrete pavement repairs
401	Fraser Rd. and Force Rd. underpasses, Lancaster	Bridge rehabilitations

2010 Highlights & Planned Accomplishments

In 2010, the government plans to invest \$1.17 billion to expand and repair highway infrastructure in Southern Ontario. Some of the many highway projects starting this year are highlighted below and in the following pages. Separate sections contain the maps and lists of all major southern highway projects underway or starting between 2010 and 2014. Major highway projects are generally greater than \$1 million in value; the ministry also contracts hundreds of smaller value highway projects that are not included in this document. These projects include spot improvements and strategies to maintain components in good repair until a major investment is required or minor work to improve highway operations.

Due to unpredictable aspects of highway planning and construction, the program outlined in this document may vary slightly. Factors such as property acquisition, weather, environmental considerations and approvals, traffic staging, design changes and unexpected field conditions can affect construction schedules. As well, all projects are subject to approvals under various pieces of legislation, including the Ontario Environmental Assessment Act. Each year the government prepares a new budget which may impact funding. It is important to recognize that these factors may impact project timing.

PLANNED ACCOMPLISHMENTS:

Multiple Bridge Rehabilitations, Highway 401 Elgin County

The Ministry of Transportation owns and maintains 2,720 Bridges across Ontario. From clearing snow to carrying out repairs, the Ontario government is committed to making sure that our Bridges are safe and efficient for all travellers.

This project will include the rehabilitation of four Bridges crossing over Highway 401 in Elgin County. Bridges included in these projects are: Blacks Road Underpass, Furnival Road Underpass, Dunborough Road Underpass, and the Southminister Bourne Underpass.

Construction consists of rehabilitation of the Bridge deck, barriers, piers and concrete girders. Minor rehabilitation to the approach roadways as well as, curb and guide rail replacements will also be completed. These rehabilitations will extend the service life of the existing Bridges and maintain a safe infrastructure

Reconstruction of Highway 21 From Kincardine, Northerly to Tiverton

Rehabilitation of this section of Highway 21 from Kincardine to Tiverton will improve overall road condition, safety, and drainage. Work will begin in 2010 with pavement rehabilitation of 13 km that will include widening of the sub grade to provide a ready platform to accommodate future lane and shoulder widths.

Construction will also replace 25 non-structural culverts, 3 structural culverts and the rehabilitation of 3 additional structural culverts. Other improvements include: roadside safety improvements, replacement of signage, pavement reconstruction within the Village of Tiverton, storm sewer improvements, and landscaping. The Ministry has decided that this project will use cold-in-place recycling method for rehabilitating the pavement.

2010 Highlights & Planned Accomplishments

Rehabilitation of Highway 28 Stoney Lake to Young's Point, Bancroft

Highway 28 between Douro 5th Line and Young's Point will be rehabilitated this year. For 3 km the existing pavement will be rehabilitated and a number of operational improvements will address traffic flow and the overall safety of this area of the highway. Minor widening of the travel lanes and partial paved shoulders will be completed within the existing roadway. Intersection improvements will occur at Douro 4th Line and Birchview Road. These improvements include the addition of southbound left turning lane and right turn improvements. Additionally, three curves in the roadway will be upgraded to the current MTO standards and storm water management improvements will be implemented.

This section of Highway 28 is a significant north-south road carrying local, commercial, seasonal, recreational and tourist traffic between Lakefield/Peterborough and Young's Point/Burleigh Falls. When completed the project will improve the driving surface resulting in increased safety and comfort for road users.

Structure Replacements Highway 401 South Glengarry Township

This project will see the removal of the current Highway 401 / CNR Overpass Structures and their replacements in South Glengarry Township.

In order to maintain two lanes of traffic in each direction during the structure replacements, construction will include a median detour, installation of a temporary modular Bridge, and a temporary sewer system to ensure proper drainage.

Extension of Highway 404 Region of York

Beginning in 2010, Highway 404 will be extended northerly 8 km from Green Lane to Queensville Sideroad in the Town of East Gwillimbury, Region of York. Initial construction will consist of a rural freeway with two lanes in either direction, divided by a grassed median and having driveable shoulders incorporated throughout.

The project will complete the construction of the partial interchange at Green Lane, as well as new interchanges located at Doane Road and Queensville Sideroad. Construction at both interchanges will widen, reconstruct the existing roads and construct new underpass structures. Fully illuminated carpool lots will be constructed at Green Lane and Queensville Sideroad, with transit facilities for GO Transit being provided at the Queensville Sideroad lot.

2010 Highlights & Planned Accomplishments

Rehabilitating 24 km of Highway 12 Township of Ramara

The rehabilitation of Highway 12 from the Simcoe/Durham Regional Boundary northerly to Rama Road (Simcoe Road 44) will see rehabilitation and/or reconstruction of the existing pavement, an extension of the southbound truck passing lane by 200 metres, widening of selected sections of the shoulder, replacement of several culverts, and improvements to the overall drainage.

The work conducted under this project will provide improvements to highway safety, riding quality, drainage and extend the service life of the pavement and culverts.

2010 Southern Ontario Planned Accomplishments

Building of new highways	53 km
Building of new bridges	6
Repairing highways	463 km
Repairing bridges	64

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Borders and Gateways

Our border crossings are vital to both the Ontario and national economies. Every year, approximately 42.5 million vehicles cross the Ontario-U.S. border. This includes nearly 8.5 million trucks. Of the \$1.2 trillion worth of goods that move along Ontario's strategic trade corridors each year, \$256 billion traverses international Bridge crossings linked to Ontario highways. Canada's three busiest crossings – Windsor, Fort Erie and Sarnia – account for over 60 per cent of Canada's road trade with the U.S.

Over the next two years, the Ontario government has partnered with Quebec and the federal government to develop an infrastructure policy and strategy to support international trade and economic growth for the future through the Continental Gateway initiative. This initiative includes strategic ports, airports, intermodal facilities and border crossings as well as essential road, rail and marine infrastructure.

Through strategic investments in our borders and gateways and in partnering with others, the Ontario government is committed to improving traffic flow at all of Ontario's gateways to keep people moving safely and efficiently, to help build prosperity for Ontario families and to strengthen our economy.

The Ontario and Canadian governments are sharing in the cost of all projects through the Border Infrastructure Fund, unless otherwise noted.

WINDSOR GATEWAY:

Highway 401, Windsor to Tilbury

Widening and other work along the 47 km of the Windsor to Tilbury corridor will improve safety and traffic flow on one of Ontario's most important trade corridors.

Phases 1, 2, 3, and 5 to six-lane Highway 401 from Essex Road 42 to Highway 77, Puce Road to Manning Road, and Essex Road 27 to Highway 77 are already complete.

The Ontario and Canadian governments cost-shared the first three phases of widening under the Strategic Highway Infrastructure Program. Phases 4 and 5 will be cost-shared under the Border Infrastructure Fund.

Phase 3, Essex Road 27 to Highway 77 - completed

Phase 3 of construction to widen this section of Highway 401 from four to six lanes began in spring 2006, and was completed in fall 2007. Along with 9.8 km of highway widening, improvements included: median barrier installation; replacing the St. Joachim Road (French Line Road) Bridge; rebuilding the ramps and adding lighting at the interchange; rehabilitating and widening the Ruscomb River Bridge; rehabilitating two underpass structures; and upgrading the Windsor south truck inspection station.

Phase 4, widening from Highway 3 to Manning Road

Phase 4, widening from four to six lanes on Highway 3 to Manning Road, is underway and on track to finish in 2010.

Along with 13.2 km of highway widening, work includes: installation of median barrier, high mast lighting replacement and the replacement and rehabilitation of overpasses.

Phase 5, Puce Road to Essex Road 27

The fifth and final phase of construction to widen Highway 401 between Windsor to Tilbury began in 2008 and finished in 2009. Work included: widening 7.2 km of highway from four to six lanes, rehabilitation of Maidstone Township Road 3 and Rochester Township Road 2 underpasses, widening of Belle River Bridge, widening and rehabilitation of Belle River overpass and Duck Creek Bridge, repairs to Big Creek Bridge and construction of a commuter parking lot at Belle River Road interchange.

Borders and Gateways

Let's Get Windsor-Essex Moving Strategy

Ontario is working with the federal government, local municipalities and other agencies to make investments that will address traffic flow, congestion and efficiency at the border crossing in Windsor, under the Let's Get Windsor-Essex Moving (LGWEM) strategy.

Continuing in 2010:

- Improvements to the Detroit-Windsor Truck Ferry access road and dock facility.
- Improvements to Essex County Road 22 to provide improved traffic safety and capacity, and better highway access to the border for commercial and commuter traffic
- Howard Avenue/CP Rail grade separation resulting in fewer traffic delays and improving traffic flow
- Master Plan and Environmental Assessment for improvements to the Windsor-Detroit Tunnel Canadian Plaza

Detroit River International Crossing study/The Windsor-Essex Parkway

The Ontario Ministry of Transportation, in partnership with Transport Canada, the U.S. Federal Highway Administration and the Michigan Department of Transportation conducted the Detroit River International Crossing (DRIC) study with the purpose of addressing the safe and efficient movement of people and goods across the Canada-U.S. border in the Windsor-Detroit Gateway to support the economies of Ontario, Michigan, Canada and the U.S.

MTO led the Canadian study in coordination with Transport Canada. Through extensive technical studies and public consultation the DRIC study team identified a new end-to-end border transportation system which includes The Windsor-Essex Parkway, along with a new inspection plaza and international Bridge in the Brighton Beach industrial area of west Windsor. Environmental approvals were received in 2009.

Initial construction on The Windsor-Essex Parkway began in December 2009. Initial construction includes the building of two Bridges and a two kilometre noise barrier near the east end of The Windsor-Essex Parkway. One Bridge is located where Highway 3 will pass over the future Windsor-Essex Parkway and the other will carry a future off-ramp from Highway 401 westbound to Highway 3 and the realigned Howard Avenue. Initial construction is expected to take one year to complete.

The Windsor-Essex Parkway will be the most significant single highway investment made in Ontario history. It will be delivered using Infrastructure Ontario's Alternative Financing and Procurement model which will utilize the private sector's expertise and innovation to design, build,

finance and maintain the Windsor-Essex Parkway. Using the request for qualifications process, three short-listed bidders were announced in October 2009. The request for proposals was released in December 2009 and a successful proponent will be chosen in late 2010 based on the proposals submitted. Full construction is expected to begin in 2011.

The Windsor-Essex Parkway is unique in its design and features an 11 kilometre below-grade freeway with transportation benefits, green space, recreations trails and community connections. The Ontario government will retain ownership of The Windsor-Essex Parkway while benefiting from private sector expertise

Continuing in 2010:

- Finalize property assembly
- Utility relocations
- Building demolitions
- Selection of a preferred proponent

On April 9, 2010, Ontario announced investments in key transportation projects in Windsor that will improve the flow of people and goods at Ontario's premier gateway. This announcement included additional funding to complete the environmental study and construction of improvements to the Canadian Plaza of the Windsor-Detroit Tunnel, and the environmental assessment and preliminary design of improvements to Lauzon Parkway under the LGWEM strategy. It also included \$15 million for widening and improvements to Walker Road between Division Road and E.C. Row Expressway, completing the end-to-end improvements being carried out along Walker Road by the City.



Borders and Gateways

NIAGARA GATEWAY:

Six-laning of QEW, St. Catharines

The QEW is a major economic trade route in Ontario. Six-laning and other improvements will address capacity, safety and operations for the high volumes of local, tourist and border traffic using the QEW through St. Catharines.

Construction has been in full swing since late 2007 and is expected to be completed in 2011. Along with widening the roadway from four to six lanes, work includes: reconstructing and reconfiguring interchanges; replacing Lake Street, Martindale, Geneva Street and Welland Avenue Bridges; widening Third Street overpass; rehabilitation of Ontario Street and Niagara Street Bridges; and installing tall wall median barrier, new storm drainage, and high mast lighting, and a landscaping and aesthetics plan.

Rehabilitation of Highway 405, QEW to Queenston Plaza

Rehabilitation of Highway 405 finished in 2009. The repair to the roadway and its structures will meet existing and future traffic demands for the Queenston-Lewiston border crossing. Work included extending the Truck Queue Warning System, to provide warning to the entire corridor and enhance safety.

For more information on Ontario border improvements, please visit:
www.ontario.ca/transportation



Partnerships

FLOW:

In March 2007, the federal government announced up to \$962 million in partnership with the Ontario government and five municipalities to generate a combined investment of close to \$4.5 billion in public transit and highway infrastructure projects in the Greater Toronto Area (GTA).

The FLOW initiative is a long-term transportation action plan to reduce gridlock, improve the environment and increase economic growth in the GTA.

The FLOW initiative includes the following three key highway projects:

Extending Highway 404 northerly

The extension of Highway 404 north from Green Lane to Ravenshoe Road will help take commuter and recreational traffic off local roads, reducing travel times, and support economic development. Phase 1 of construction to extend Highway 404 northerly, building a new bridge over Green Lane, was started in 2007 and will be completed this year. Another Bridge over Mount Albert Road started in 2008 as Phase 2. Construction of the new highway in Phases 3 and 4 is scheduled to begin in 2010 with lanes open to traffic by 2012.

Widening Highway 7 in Durham Region

An advance structure contract started in 2008 for the East Duffrins Creek Bridge, and was completed in the fall 2009.

Four-laning of Highway 7 for 13 km, from Brock Road to Highway 12, is scheduled to begin in 2010 and be opened by 2012.

Extending Highway 407 easterly

The Minister of Environment approved the Highway 407 East Provincial Environmental Assessment (EA), subject to a number of conditions.

The EA includes the approval for:

A new east-west transportation corridor (highway and transitway) to extend Highway 407 easterly to Highway 35/115; and,

Two north-south links (highway and transitway) connecting Highway 401 to the proposed extension of Highway 407; one in West Durham and one in East Durham.

The Ministry of Transportation and Infrastructure Ontario together released a request for qualifications (RFQ) to prequalify and shortlist project teams to extend Highway 407, eastward from Brock Road in Pickering to Simcoe Street area in Oshawa, and build the West Durham Link connecting Highway 407 to Highway 401 (Phase 1).

Infrastructure Stimulus Fund

The governments of Canada and Ontario are working in partnership to build a strong economy, safe and vibrant communities, and a healthy sustainable environment.

In 2009, the Government of Canada announced the creation of a new \$4-billion Infrastructure Stimulus Fund (ISF), aimed at getting shovels in the ground for infrastructure projects across Canada over the next two years. Ontario has agreed to match federal funding and to work together with Canada to ensure that these funds are delivered expeditiously and efficiently to the rehabilitation of existing assets, and new construction, provided it can be fully completed by March 31, 2011.

In all, the Infrastructure Stimulus Fund will provide funding for 37 provincial highway construction projects valued at over \$130 million

For more information on the Infrastructure Stimulus Fund, please visit:
<http://www.bcfontario.ca/>

Innovative Contract Delivery

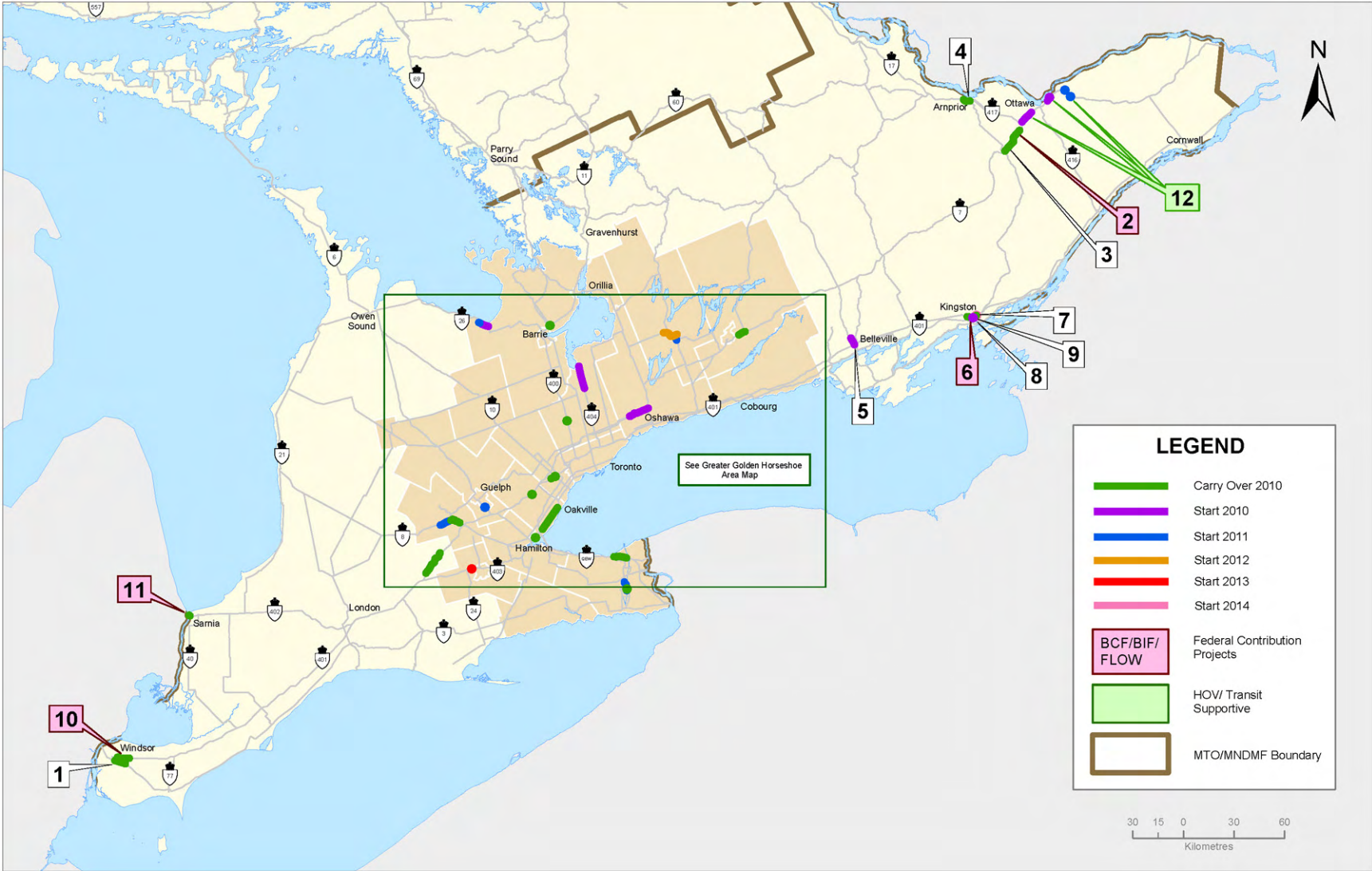
Provincial Highways Management Division will be delivering a quarter of our business in innovative and improved ways. A tool box of contract delivery models is being developed to meet this initiative. Minimum Oversight (Min-O) contracts have been used for the last few years and the ministry has advertised Design-Build Minor contracts for the 2010/11 construction season. These models are performance-based and include longer warranty periods than traditional contracts. Additional models, such as the Construction Manager/General Contractor, are also being developed.



Hwy 6 - 403 to Hwy 5

Expansion Projects

Southern Ontario Expansion 2010 to 2014



Expansion Projects

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Southern Ontario Expansion 2010 to 2014

Map #	Hwy	Region	Location	Type of Work	Target Start Date	Target Completion Date
1	3	Western Ontario	Leamington to Windsor - Phase 2 - Essex County Rd. 11 to West Jct. Essex County Rd. 34	2 to 5 lane widening	underway	2011
2	7	Eastern Ontario	Hwy 417 to Carleton Pl. - Phase 2 of 3 - Jinkinson Rd. to Ashton Station Rd.	2 to 4 lane widening	underway	2010
3	7	Eastern Ontario	Hwy 417 to Carleton Pl. - Phase 3 of 3 - Ashton Station Rd. to Carleton Place	2 to 4 lane widening/bridge rehabilitation	underway	2011
4	17	Eastern Ontario	Arnprior By-Pass - Phase 1 - Regional Road 29 to Division Street	2 to 4 lane widening	underway	2012
5	62	Eastern Ontario	Hwy 401 to Foxboro, Belleville	2 to 4 and 2 to 5 lane widening	2010	2012
6	401	Eastern Ontario	Hwy 15 to Frontenac county Rd. 38 - Phase 2 - west of Sydenham Rd. to west of Montreal St., Kingston	4 to 6 lane widening	underway	2012
7	401	Eastern Ontario	Hwy 15 to Frontenac county Rd. 38 - Phase 3A - Italia Ln., Kingston	Road realignment	underway	2010
8	401	Eastern Ontario	Hwy 15 to Frontenac county Rd. 38 - Division St., Kingston	Interchange improvements	2010	2012
9	401	Eastern Ontario	Hwy 15 to Frontenac county Rd. 38 - Phase 4 - Montreal St. and CNR overheads, Kingston	Bridge replacement/widening	2014	2015
10	401	Western Ontario	Windsor to Tilbury - Phase 4 of 5 - Hwy 3 to Manning Rd. - Border Infrastructure Fund (BIF)	4 to 6 lane widening	underway	2010

Continued...

2010-2014
Expansion



Expansion Projects

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

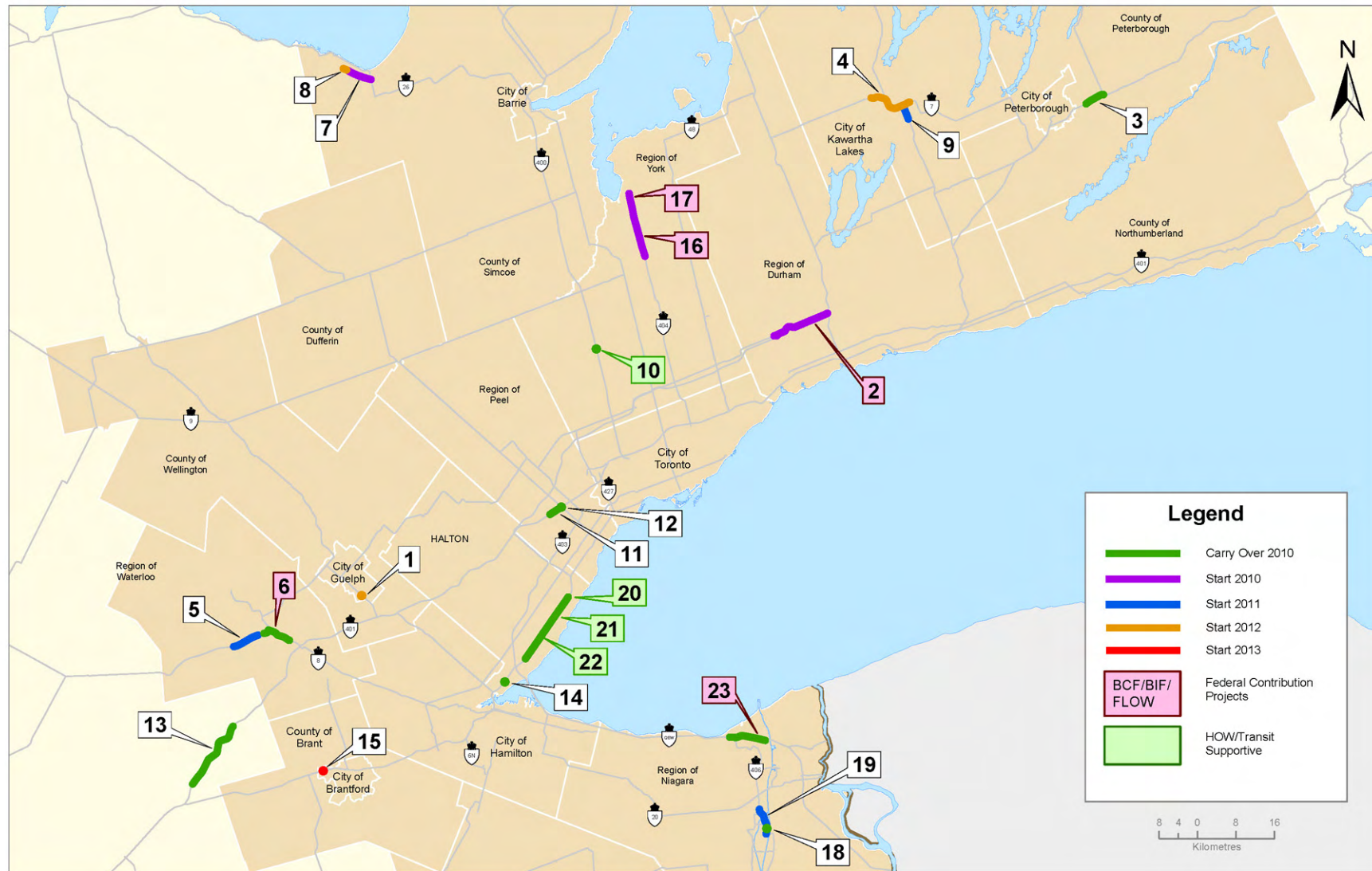
Southern Ontario Expansion 2010 to 2014

Map #	Hwy	Region	Location	Type of Work	Target Start Date	Target Completion Date
11	402	Western Ontario	Bluewater Bridge to east of Murphy Rd., Sarnia - Border Infrastructure Fund (BIF)	2 to 4 westbound lane widening	underway	2012
12	417	Eastern Ontario	The projects include road widening, bridge rehabilitation and replacement. Starting in 2010, construction of these projects will be phased in over the next several years with completion ranging from 2011 to 2016. Some of the expansion projects are dependant upon on-going discussions with the City of Ottawa.	Bridge replacements/widening	2010	2016

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Expansion Projects

Greater Golden Horseshoe Expansion 2010 to 2014



Expansion Projects

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Greater Golden Horseshoe Expansion 2010 to 2014

Map #	Hwy	Region	Location	Type of Work	Target Start Date	Target Completion Date
1	6	Western Ontario	Hanlon Expressway - Laird Rd., Guelph	New interchange	2011	2013
2	7	Central Ontario	Brock Rd. (Pickering) to Hwy 12, Brooklin (FLOW)	2 to 4 lane widening	2010	2012
3	7	Eastern Ontario	Hwy 28 to Drummond Ln., Peterborough	2 to 5 lane widening	underway	2010
4	7	Eastern Ontario	Lindsay By-Pass - Phase 2 - Victoria county Rd. 36 to Angeline Street	2 to 4 lane widening	2012	2013
5	7 & 8	Western Ontario	Fischer Hallman Rd. to Courtland Ave., Kitchener	4 to 6 lane widening	2011	2013
6	8	Western Ontario	Grand River to Highway 401 - Building Canada Fund (BCF)	4 to 6 and 4 to 8 lane widening/ resurfacing	underway	2013
7	26N	Central Ontario	Wasaga to Collingwood - Phase 3 of 3 - Sixth Line to existing Hwy 26	New 4 lane highway	2010	2012
8	26N	Central Ontario	Wasaga to Collingwood - Phase 3A Sixth Line to Pretty River Parkway	2 to 5 lane widening	2012	2013
9	35	Eastern Ontario	Lindsay By-Pass - Phase 1 - Hwy 7, southerly 2.0 km	4 to 5 lane widening	2011	2011
10	400	Central Ontario	King Rd. interchange, York Region (HOV lanes)	Interchange improvement	underway	2010

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2010-2014
Expansion



Expansion Projects

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Greater Golden Horseshoe Expansion 2010 to 2014

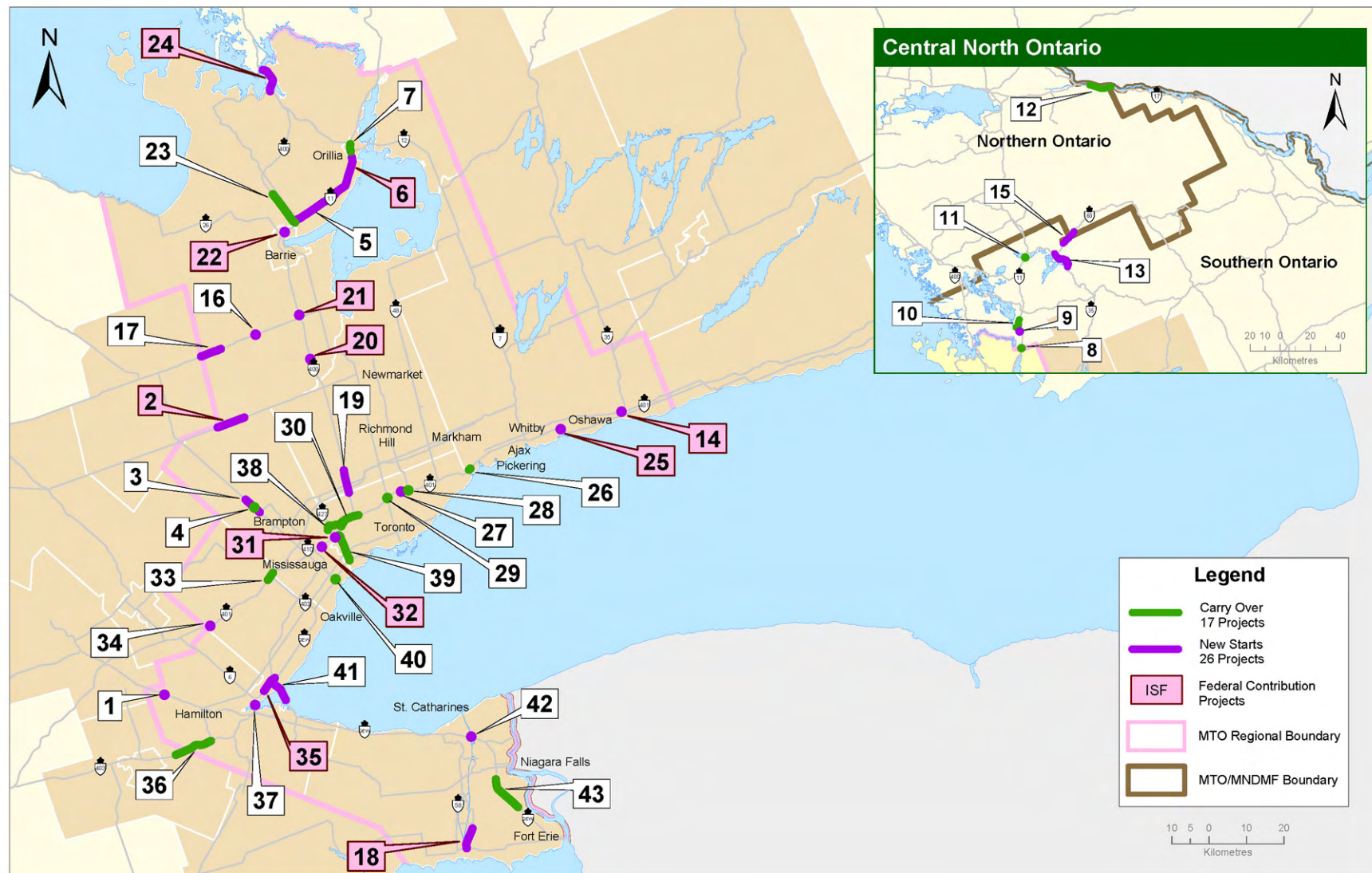
Map #	Hwy	Region	Location	Type of Work	Target Start Date	Target Completion Date
11	401	Central Ontario	Hwy 410 to Hurontario St., Mississauga	New interchange/widening	underway	2013
12	401	Central Ontario	Hwy 410 to Hurontario St., Mississauga	New patrol yard	underway	2010
13	401	Western Ontario	Woodstock to Cambridge - Phase 3 of 3 - Oxford Rd. 2 to Drumbo Rd.	4 to 6 lane widening	underway	2011
14	403	Central Ontario	Waterdown Rd. interchange - (Partnership with the City of Burlington)	New interchange/widening	underway	2010
15	403	Western Ontario	Oak Park Interchange, Brantford	Interchange improvements/ Bridge rehabilitation	2013	2014
16	404	Central Ontario	Phase 3 of 4 - Green Lane to Queensville Side Rd., York Region (FLOW)	New 4 lane highway	2010	2012
17	404	Central Ontario	Phase 4 of 4 - Queensville Side Rd. to Ravenshoe Rd., York Region (FLOW)	New 4 lane highway	2011	2012
18	406	Central Ontario	Port Robinson Rd. to Main St. - Merrit Rd., Welland	New bridge /interchange	underway	2010
19	406	Central Ontario	Port Robinson Rd. to Main St., Welland	2 to 4 lane widening	2011	2014
20	QEW	Central Ontario	Third Line to Trafalgar Rd., Oakville (HOV lanes)	6 to 8 lane widening	underway	2011
21	QEW	Central Ontario	Burloak Dr. to Third Line, Oakville (HOV lanes)	6 to 8 lane widening	underway	2011
22	QEW	Central Ontario	Guelph Line to Burloak Dr., Burlington/ Oakville (HOV lanes)	6 to 8 lane widening	underway	2011
23	QEW	Central Ontario	Seventh St. to Garden City Skyway, St. Catharines- Border Infrastructure Fund (BIF)	4 to 6 lane widening	underway	2011

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Rehabilitation Projects

Central Ontario Rehabilitation 2010



Rehabilitation Projects

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Central Ontario Rehabilitation 2010

Map #	Hwy	Status	Location	Type of Work	Target Completion Date	Project Length (kms)
1	8	New	Fairchild Creek, Flamborough	Culvert replacement	2010	n/a
2	9	New	West of Peel Rd. 50 to west of Peel Rd. 7, Peel - Infrastructure Stimulus Fund (ISF)	Resurfacing	2010	7.5
3	10	New	Hwy 410 to Peel Rd. 9, Caledon	Resurfacing	2010	5.1
4	10	Underway	Caledon Rd. 22 (Old School Rd.), Caledon	Traffic signals	2010	n/a
5	11	New	Hwy 400 / Hwy 11 split to Oro Medonte Ln. 5, Simcoe	Resurfacing	2010	9.0
6	11	New	Oro Medonte Ln. 5 to Simcoe Rd. 49, Simcoe - Infrastructure Stimulus Fund (ISF)	Resurfacing	2010	16.0
7	11	Underway	Memorial Ave. to Sundial Dr., Orillia	Median barrier	2010	2.0
8	11	Underway	Muskoka Rd. 13 interchange, Gravenhurst	Bridge rehabilitation	2012	n/a
9	11	New	Sedore Rd. underpass, south of Gravenhurst	Bridge rehabilitation	2011	n/a
10	11	Underway	Hwy 169 northerly, Gravenhurst	Resurfacing	2010	6.3
11	11	Underway	Vernon Lake Bridge, southbound lane, Huntsville	Bridge replacement	2010	n/a
12	17	Underway	East of Hwy 533 easterly, Mattawa	Resurfacing	2010	14.9
13	35	New	Hwy 60 to Hwy 117, Dorset	Resurfacing	2010	17.9
14	35/115	New	Wilmot Creek culvert, Clarington - Infrastructure Stimulus Fund (ISF)	Culvert rehabilitation	2011	n/a
15	60	New	Algonquin Park west gate, westerly	Resurfacing	2011	10.8
16	89	New	Nottawasaga River Bridge, Alliston	Bridge rehabilitation	2011	n/a
17	89	New	West of Simcoe Rd. 13 to Simcoe / Dufferin Boundary	Resurfacing	2010	5.7
18	140	New	Hwy 3 to north of Niagara Rd. 23, Welland - Infrastructure Stimulus Fund (ISF)	Resurfacing	2010	5.7
19	400	New	Steeles Ave. to north of Langstaff Rd., Vaughan	Resurfacing	2010	6.2
20	400	New	Regional Rd. 88 underpass, Simcoe - Infrastructure Stimulus Fund (ISF)	Bridge rehabilitation	2010	n/a
21	400	New	Innisfil Creek culvert, Innisfil - Infrastructure Stimulus Fund (ISF)	Culvert rehabilitation	2010	n/a
22	400	New	St. Vincent St. Bridge, Barrie - Infrastructure Stimulus Fund (ISF)	Bridge rehabilitation	2010	n/a
23	400	Underway	Forbes Rd. to Hwy 93, southbound lanes & CPR Bridge, northbound lanes, north of Barrie	Resurfacing/bridge rehabilitation	2010	9.8
24	400	New	North Jct. Hwy 12, Simcoe Rd. 16, Simcoe - Infrastructure Stimulus Fund (ISF)	Resurfacing	2010	7.1

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Rehab
Central



Rehabilitation Projects

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Central Ontario Rehabilitation 2010

Map#	Hwy	Status	Location	Type of Work	Target Completion Date	Project Length (kms)
25	401	New	Farewell Creek Bridge, Oshawa - Infrastructure Stimulus Fund (ISF)	Bridge rehabilitation	2011	n/a
26	401	Underway	East and west of Rouge Mount Dr., Scarborough	Noise barrier	2010	0.6
27	401	New	Don River Bridge 1, Toronto	Bridge rehabilitation	2010	n/a
28	401	Underway	Highway 401 / 404 ramp, Toronto	Bridge rehabilitation	2010	n/a
29	401	Underway	Hogg's Hollow Bridge, express lanes, Toronto	Bridge rehabilitation	2013	n/a
30	401	Underway	Jane St. to Kipling Ave., westbound collector lanes, Toronto	Reconstruction/bridge rehabilitation	2012	5.9
31	401	New	Renforth Dr. north and southbound Bridges - Infrastructure Stimulus Fund (ISF)	Bridge rehabilitations	2010	n/a
32	401	New	Dixie Rd. underpass, Mississauga - Infrastructure Stimulus Fund (ISF)	Bridge rehabilitation	2010	n/a
33	401	Underway	Winston Churchill Blvd. to Trafalgar Rd., Milton	Resurfacing	2010	2.3
34	401	New	First Line underpass, Milton	Bridge rehabilitation	2010	n/a
35	403	New	Hwy 403 / Hwy 407 interchange to Hwy 6 - Infrastructure Stimulus Fund (ISF)	Resurfacing	2010	4.2
36	403	Underway	Wilson St. westerly to Hamilton / Brant Boundary	Resurfacing	2010	10.3
37	403	New	Desjardin Canal Bridge	Bridge rehabilitation	2010	n/a
38	409	Underway	Hwy 401 to Hwy 427, Toronto	Resurfacing/bridge rehabilitations/median barrier replacement/highway lighting	2011	6.5
39	427	Underway	QEW to Hwy 401, northbound express lanes, Toronto	Reconstruction/bridge rehabilitations	2010	7.7
40	QEW	Underway	Hurontario St. interchange and Mississauga Rd. to Dixie Rd., Mississauga	Interchange reconstruction/resurfacing	2010	n/a
41	QEW	New	South of North Shore Blvd. to Brant Street, Burlington	Resurfacing	2010	7.9
42	QEW	New	Garden City Skyway, St. Catharines	Bridge rehabilitation	2010	n/a
43	QEW	Underway	Lyons Creek Rd. to north of Netherby Rd., Fort Erie	Resurfacing	2010	10.0

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Rehabilitation Projects

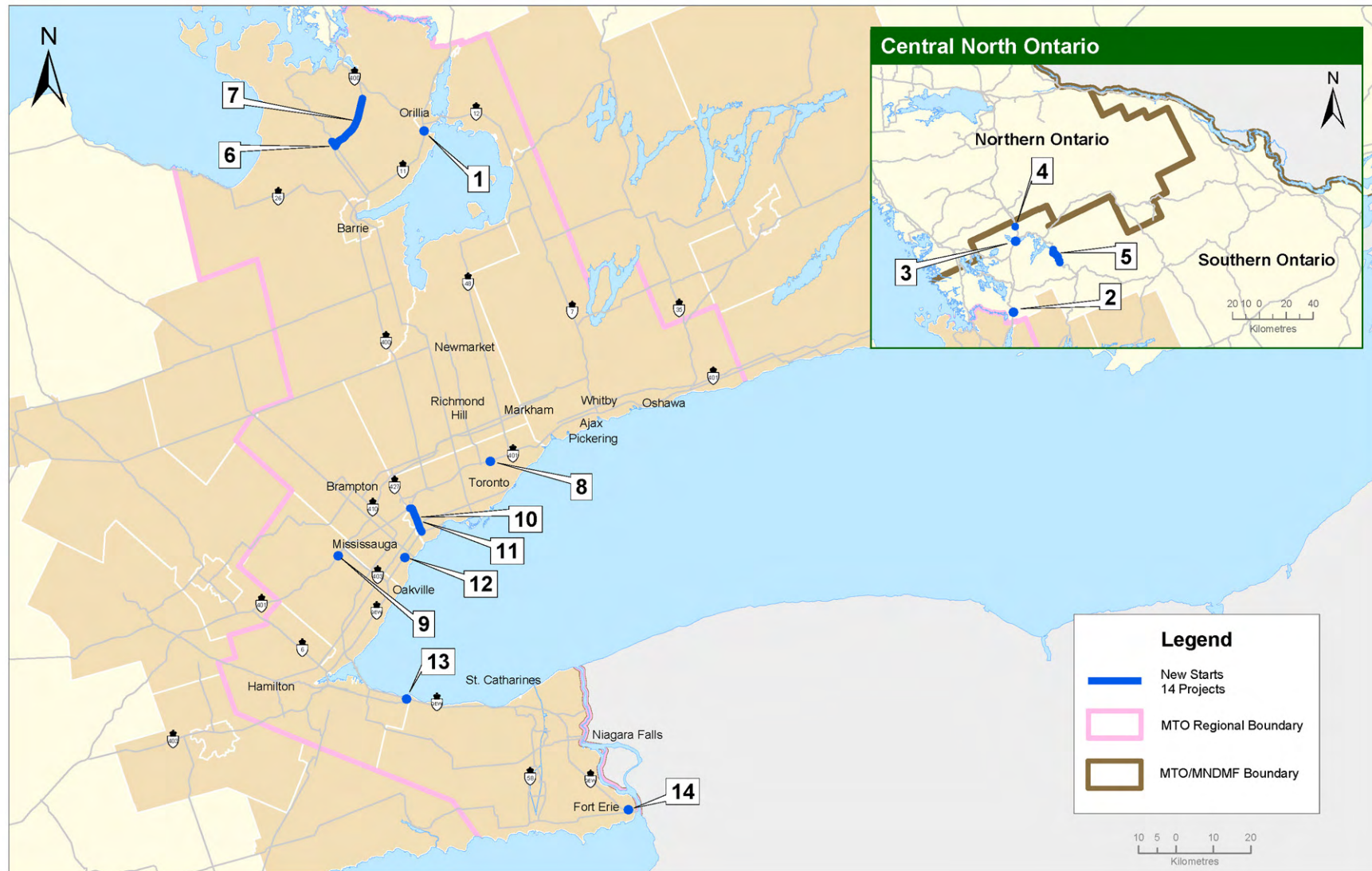
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Central Ontario Rehabilitation 2010

Map #	Hwy	Status	Location	Type of Work	Target Completion Date	Project Length (kms)
35/115		New	Various Bridges, Clarington (2 phases)	Bridge rehabilitations	2011	n/a
403		Underway	Various locations	Bridge rehabilitations	2011	n/a
Various		New	Various Bridges, Hamilton, Halton, Peel (ISF)	Bridge rehabilitations	2010	n/a
Various		New	Various Bridges, Durham - Infrastructure Stimulus Fund (ISF)	Bridge rehabilitations	2011	n/a
Various		New	Various Bridges within Central Ontario	Bridge rehabilitations	2010	n/a
Various		New	Various highways within Central Ontario	Selective resurfacing	2010	n/a

Rehabilitation Projects

Central Ontario Rehabilitation 2011



Central Ontario Rehabilitation 2011

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Central Ontario Rehabilitation 2011

Map #	Hwy	Status	Location	Type of Work	Target Completion Date	Project Length (kms)
1	11	New	Memorial Ave., Orillia	Bridge rehabilitation	2011	n/a
2	11	New	Killworthly, Sparrow underpasses, Gravenhurst	Bridge rehabilitations	2011	n/a
3	11	New	Vernon Lake Bridge, northbound lane, Huntsville	Bridge rehabilitation	2011	n/a
4	11	New	North of Waseosa Lake Rd., Huntsville	Resurfacing	2011	0.1
5	35	New	Muskoka Rd. southerly, Dorset	Resurfacing	2011	12.4
6	93	New	Waverley Rd. to north of Hillsdale, Simcoe	Truck climbing lane/traffic signals	2011	1.6
7	400	New	Hwy 93 to Simcoe Rd. 19, northbound lanes, Simcoe	Resurfacing	2012	15.3
8	401	New	Warden Ave., Toronto	Bridge rehabilitation	2011	n/a
9	401	New	Trafalgar Rd., Milton	Bridge rehabilitation	2012	n/a
10	427	New	QEW to Hwy 401, northbound collector lanes, Toronto	Resurfacing/bridge rehabilitations	2012	7.3
11	427	New	QEW to Hwy 401, southbound collector lanes, Toronto	Reconstruction/bridge rehabilitations	2013	7.3
12	QEW	New	Credit River Bridge, Mississauga	Bridge rehabilitation	2012	n/a
13	QEW	New	Fifty Rd., Winona Rd., Glover Rd., Fruitland Rd., Millen Rd., Grays Rd., Hamilton	Bridge rehabilitations	2012	n/a
14	QEW	New	Bertie St., Fort Erie	Bridge rehabilitation	2011	n/a
15	various	New	Various Bridges within Central Ontario	Bridge rehabilitations	2011	n/a
16	various	New	Various highways within Central Ontario	Selective resurfacing	2011	n/a

Rehabilitation Projects

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Central Ontario Rehabilitation 2012 to 2014

Hwy	Location	Type of Work	Project length (kms)
8	Hwy 5/8 (Peters Corners), Hamilton	Intersection improvements	n/a
11	South Muskoka River Bridge, south of Bracebridge	Bridge rehabilitation	n/a
11	North Muskoka River Bridge, southbound lane, north of Bracebridge	Bridge rehabilitation	n/a
11	Stephenson Rd. 12 northerly, Muskoka	Resurfacing	5.1
12	Sturgeon River Bridge, Simcoe	Bridge rehabilitation	n/a
12	Simcoe Rd. 37 to King St., Midland	Resurfacing	3.5
35	North of Haliburton Rd. 13, Halls Lake	Culvert rehabilitation	n/a
58	Thorold Stone Rd. to Hwy 406, Thorold	Resurfacing	4.0
58	Richmond St. Bridge, Thorold	Bridge rehabilitation	n/a
58	Pine St. Bridge, Thorold	Bridge rehabilitation	n/a
58	CNR Overhead Bridge, Welland	Bridge rehabilitation	n/a
58	Fork's Rd. Bridge, Welland	Bridge rehabilitation	n/a
60	Oxtongue Lake Narrows Bridge, east of Hwy 35	Bridge rehabilitation	n/a
60	Hwy 35 to Oxtongue River Bridge, Dwight	Resurfacing	9.4
118	Anson Creek, Black River Bridges, west of Hwy 35, Minden	Bridge rehabilitations	n/a
140	CNR and CPR Bridge replacement, Welland	Bridge rehabilitation	n/a
400	Hwy 400 / 401 ramp, Toronto	Bridge rehabilitation	n/a
400	York / Simcoe boundary to Essa Rd., Barrie (3 Phases)	Resurfacing/bridge rehabilitation	36.0
400	Hwy 11 to Hwy 93, northbound lanes, Simcoe	Resurfacing/bridge rehabilitation	16.4

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Rehabilitation Projects

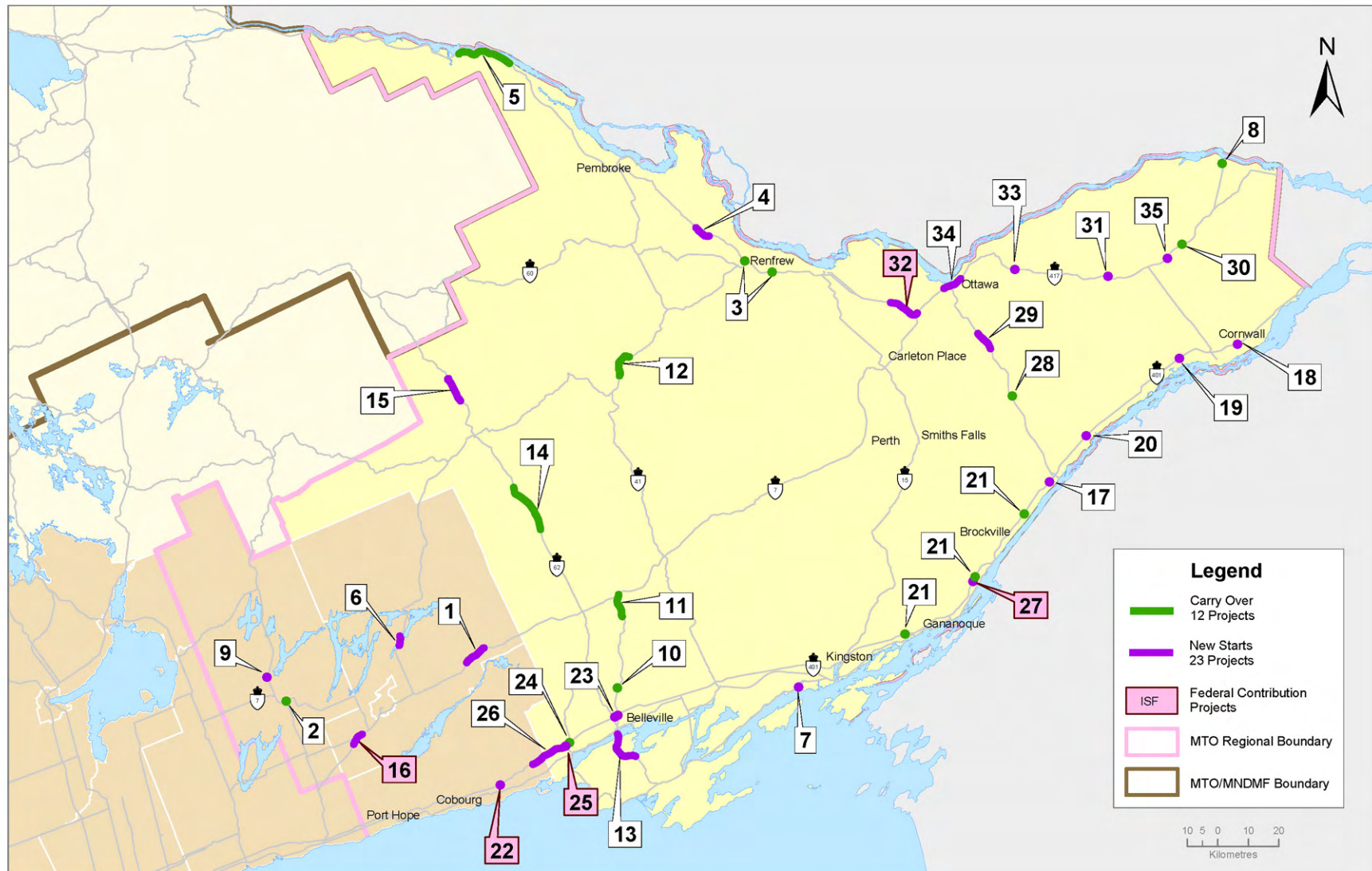
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Central Ontario Rehabilitation 2012 to 2014

Hwy	Location	Type of Work	Project Length (kms)
401	Cobble Dick Rd. underpass, Clarington	Bridge replacement	n/a
401	Bloor St., Oshawa	Bridge rehabilitation	n/a
401	Hope Townline Rd. underpass, Durham	Bridge replacement	n/a
401	Warden Ave. to Leslie St., eastbound collector lanes, Toronto	Reconstruction/bridge rehabilitation	4.7
401	Hogg's Hollow Bridge, Toronto	Bridge rehabilitation	n/a
401	Jane St. to Avenue Rd., eastbound collector lanes, Toronto	Reconstruction/bridge rehabilitation	7.4
403	King Rd., Waterdown Rd., Lemonville Rd., Snake Rd., Burlington	Bridge rehabilitations	n/a
403	West of Hwy 6 to Aberdeen Ave., Hamilton	Resurfacing	5.0
406	Glendale Ave. overpass, St. Catharines	Bridge rehabilitation	n/a
406	Hwy 58 to Geneva St., St. Catharines	Resurfacing	7.5
406	Beaverdams Rd. Bridge, Welland	Bridge replacement	n/a
427	Etobicoke, Toronto	Bridge rehabilitation	n/a
427	Etobicoke, Toronto	Bridge rehabilitation	n/a
427	Etobicoke, Toronto	Bridge rehabilitation	n/a
QEW	Burlington Bay Skyway, Burlington / Hamilton	Bridge rehabilitation	n/a
QEW	Seventh St. Bridge, St. Catharines	Bridge rehabilitation	n/a
QEW	Bowen Rd., Fort Erie	Bridge replacement	n/a
various	Various Bridges within Central Ontario	Bridge rehabilitations	n/a
various	Various Hwys within Central Ontario	Selective resurfacing	n/a

Rehabilitation Projects

Eastern Ontario Rehabilitation 2010



Rehabilitation Projects

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Eastern Ontario Rehabilitation 2010

Map #	Hwy	Status	Location	Type of Work	Target Completion Date	Project Length (kms)
1	7	New	Havelock to Norwood	Resurfacing/passing lanes	2011	7.7
2	7	Underway	Scugog River Bridge, Lindsay	Bridge rehabilitation/widening	2011	n/a
3	17	Underway	Constable Philip Shrive and CPR overhead, Renfrew	Bridge rehabilitations	2010	n/a
4	17	New	Renfrew Rd. 61 to Logos Land Rd., Renfrew	Resurfacing	2010	5.4
5	17	Underway	Point Alexander to west of Rolphton	Resurfacing	2010	18.6
6	28	New	Stoney Lake Rd. to Young's Point	Resurfacing/intersection improvements	2010	3.2
7	33	New	Speers Blvd., Amherstview	Intersection improvements	2011	n/a
8	34	Underway	Hawkesbury Creek / OCR Bridge, Hawkesbury	Bridge rehabilitation	2010	n/a
9	35	New	Victoria Rd. 121, Long Beach	Intersection improvements	2011	n/a
10	37	Underway	Moir River Bridge, Belleville	Bridge rehabilitation	2011	n/a
11	37	Underway	Tweed to Hwy 7	Resurfacing	2010	7.8
12	41	Underway	North of Denbigh to Griffith	Resurfacing	2010	9.1
13	62	New	Crofton to Rossmore	Resurfacing	2010	12.6
14	62	Underway	Cleveland Rd. to Hastings Rd. 620, Ormsby	Reconstruction/bridge replacement	2010	17.4
15	62	New	Hickey Rd. northerly to Maynooth	Resurfacing	2010	8.7
16	115	New	Peterborough Rd. 10 to Hwy 7A, south of Peterborough - Infrastructure Stimulus Fund (ISF)	Resurfacing	2010	4.4
17	401	New	CPR overhead, Prescott	Bridge rehabilitation	2011	n/a
18	401	New	CNR overhead and Boundary Rd. Bridge, Cornwall	Bridge replacements	2013	n/a
19	401	New	Moulinette Rd. underpass, Long Sault	Bridge replacement	2011	n/a
20	401	New	Carman Rd. underpass, Iroquois	Bridge replacement	2011	n/a

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Rehabilitation Projects

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

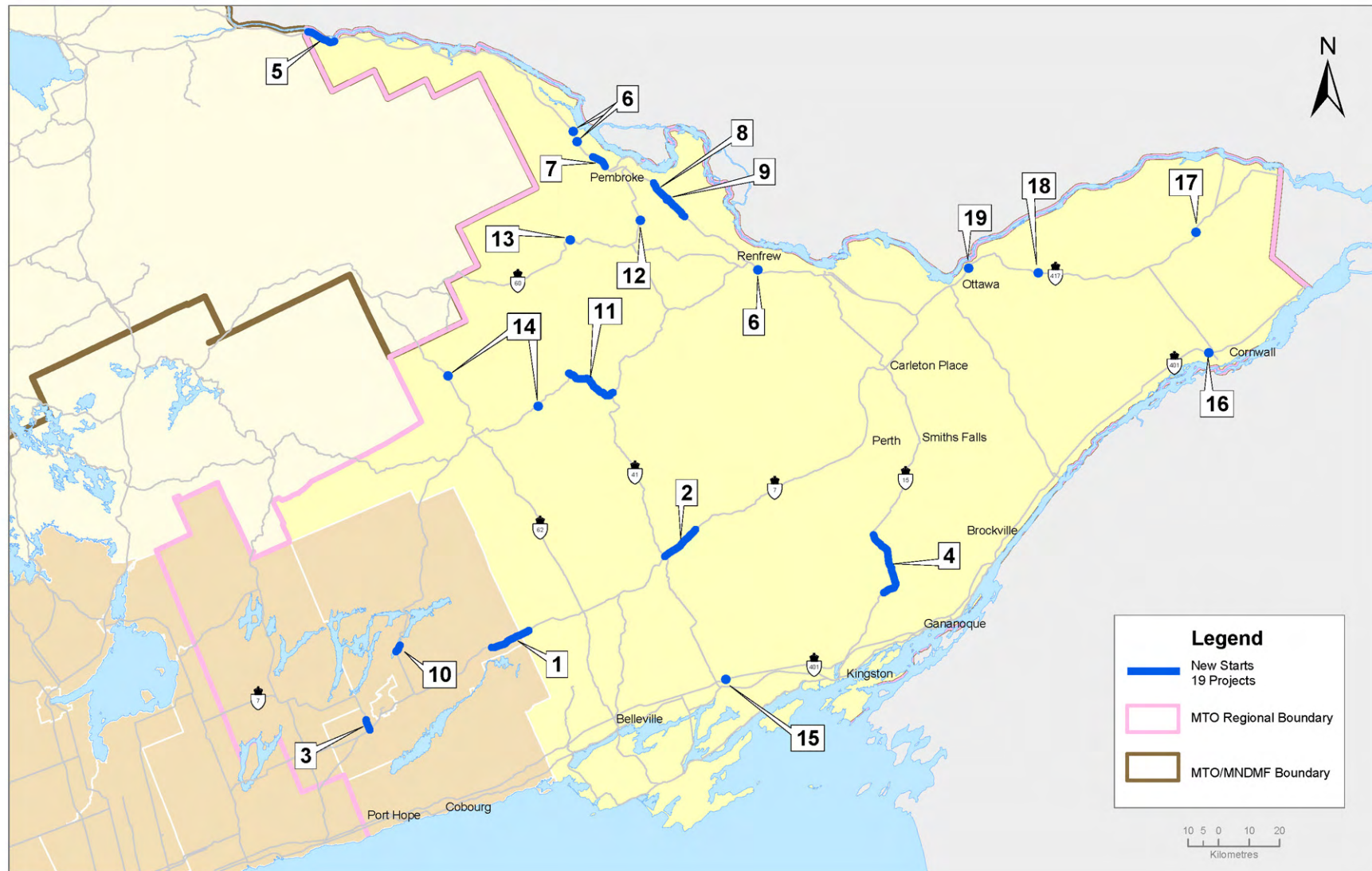
Eastern Ontario Rehabilitation 2010

Map #	Hwy	Status	Location	Type of Work	Target Completion Date	Project Length (kms)
21	401	Underway	Leeds-Grenville Rd. 32, Maitland Rd. and Mallorytown Rd. underpasses, east of Gananoque	Bridge rehabilitations	2010	n/a
22	401	New	Herley Rd. underpass, Colborne - Infrastructure Stimulus Fund (ISF)	Bridge rehabilitation	2010	n/a
23	401	New	CNR overhead and Hwy 37 underpass, Belleville	Bridge rehabilitations	2012	n/a
24	401	Underway	Trent River Bridge overpass, Trenton	Bridge rehabilitation/widening	2012	n/a
25	401	New	Stockdale Rd. overpass, Trenton - Infrastructure Stimulus Fund (ISF)	Bridge rehabilitation	2010	n/a
26	401	New	Trenton to Brighton	Resurfacing	2011	13.3
27	401	New	Donovan Creek Bridge, Mallorytown - Infrastructure Stimulus Fund (ISF)	Bridge rehabilitation	2010	n/a
28	416	Underway	Barnes Creek, south Kemptville	Culvert replacement	2010	n/a
29	416	New	Roger Stevens Rd. to Century Rd., Manotick	Resurfacing	2010	6.5
30	417	Underway	Dunvegan Rd. and Stormont-Dundas-Glengarry Rd. 23 underpasses, Dunvegan	Bridge rehabilitations	2010	n/a
31	417	New	South Indian Creek culverts, Limoges	Culvert rehabilitations	2010	n/a
32	417	New	Hwy 7 to Ottawa Carleton Rd. 163, eastbound lane, Ottawa - Infrastructure Stimulus Fund (ISF)	Resurfacing	2010	10.4
33	417	New	Anderson Rd. underpass, Ottawa	Bridge rehabilitation	2011	n/a
34	417	New	Woodroffe Ave. to Hwy 416, Ottawa	Resurfacing	2010	6.4
35	417	New	Tayside Municipal Drain	Culvert replacement	2011	n/a

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Rehabilitation Projects

Eastern Ontario Rehabilitation 2011



Rehabilitation Projects

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Eastern Ontario Rehabilitation 2011

Map #	Hwy	Status	Location	Type of Work	Target Completion Date	Project Length (kms)
1	7	New	Marmora to Havelock	Resurfacing	2012	13.6
2	7	New	Scott Rd. westerly to Hwy 41, Kaladar	Resurfacing/passing lane	2012	13.7
3	7	New	Hwy 115 to Peterborough Rd. 15, Peterborough	Resurfacing/bridge rehabilitation	2012	3.6
4	15	New	Seeley's Bay to Crosby	Resurfacing/passing lanes	2013	23.9
5	17	New	Deux Rivieres to Renfrew County Boundary	Resurfacing	2012	9.7
6	17	New	Petawawa River Bridge, CPR overhead, Petawawa and CNR overhead, Renfrew	Bridge rehabilitations	2013	n/a
7	17	New	Renfrew Rd. 42 to Renfrew Rd. 26, Pembroke	Resurfacing	2011	5.4
8	17	New	Cobden to Renfrew Rd. 40	Resurfacing	2011	15.5
9	17	New	Snake River Bridge, west of Cobden	Bridge rehabilitation	2012	n/a
10	28	New	Peterborough Rd. 29 to Stony Lake Rd., Lakefield	New alignment/traffic signals	2012	2.6
11	28	New	Renfrew Rd. 514 to Denbigh	Resurfacing	2011	18.7
12	41	New	Snake River Bridge, Rankin	Bridge rehabilitation	2011	n/a
13	60	New	Bonnechere River Bridge, Deacon	Bridge rehabilitation	2012	n/a
14	127, 28	New	Papineau Creek, Little Mississippi River Bridge, north of Maynooth	Bridge rehabilitations	2011	n/a
15	401	New	Palace Rd. overpass, Napanee	Bridge rehabilitations	2011	n/a
16	401	New	Cornwall Centre Rd. overpass	Bridge replacements	2013	n/a
17	417	New	Skye Rd. overpass, St. Bernardin	Bridge rehabilitation	2011	n/a
18	417	New	Boundary Rd. underpass, Ottawa	Bridge rehabilitation	2013	n/a
19	417	New	Merivale Rd., Carling Ave. westbound lane, Kirkwood Rd. Bridges, Ottawa	Bridge replacements	2014	n/a

Rehabilitation Projects

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Eastern Ontario Rehabilitation 2012 to 2014

Hwy	Location	Type of Work	Project Length (kms)
7	Perth, east to west limits	Resurfacing	1.0
7	Sharbot Lake westerly to Scott Rd.	Resurfacing	26.5
7	Wemyss to Maberly	Passing lanes/intersection improvements	12.2
7A	Bethany to Hwy 35	Resurfacing/bridge rehabilitations	8.9
15	Hamlet of Portland	Resurfacing	3.0
15	Leeds & Grenville Rd. 42 to Young's Hill Rd., Crosby	Resurfacing/intersection improvements/ bridge replacement	2.8
17	Renfrew Rd. 4 to Cobden	Resurfacing	20.0
17	Doran Rd. to Petawawa Township Boundary	Resurfacing	17.2
17	Stonecliffe to Bissett Creek	Resurfacing	12.5
28	Peterborough / Haliburton/ Hastings County Boundary, north of Apsley	Resurfacing	9.2
28	Hastings County Rd. to Bancroft southerly limits	Resurfacing	15.5
33	Collins Bay to Bath	Resurfacing	14.5
34	Hwy 417 to Vankleek Hill	Resurfacing	5.3
35	Trent Canal Bridge, Rosedale	Bridge rehabilitation	n/a
62	Quin-Mo-Lac Rd. to Madoc	Reconstruction/bridge rehabilitation/ truck climbing lane	7.2
62	Bannockburn to Cleveland Rd., near Millbridge	Resurfacing	15.0
62	Ashley St. to Hasting Rd. 14, Foxboro	Resurfacing/bridge rehabilitation/ intersection improvements	3.4

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Rehabilitation Projects

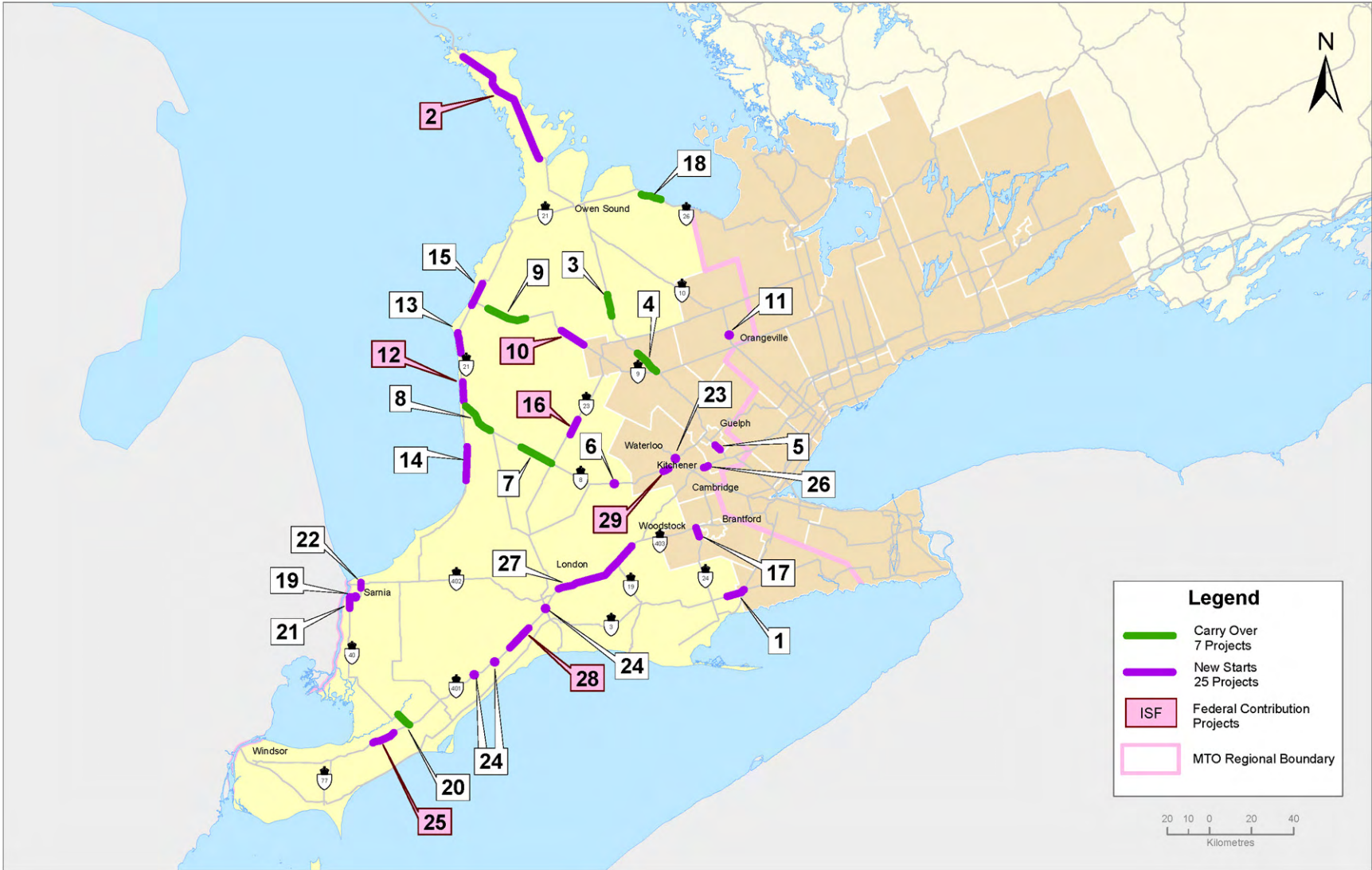
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Eastern Ontario Rehabilitation 2012 to 2014

Hwy	Location	Type of Work	Project Length (kms)
132	Constant Creek Bridge, Dacre	Bridge replacement	n/a
137	Canada / US Border to 1000 Islands Parkway	Resurfacing	2.7
138	North Raisin River Bridges, St. Andrews	Bridge rehabilitations	n/a
138	Monkland to Hwy 417	Resurfacing	17.0
148	CPR overhead and Hazley Bay Bridge, Pembroke	Bridge rehabilitations	n/a
401	Cornwall area	Bridge rehabilitations	n/a
401	Cornwall to Morrisburg, various locations	Bridge rehabilitations	n/a
401	East of North Augusta Rd., Brockville	Noise barriers	1.0
401	Frontenac Rd. 38 to Lennox Addington Rd. 4, west of Kingston	Resurfacing/bridge rehabilitations	17.5
401	Lennox and Addington Rd. 41 to Wyman's Rd., Napanee	Resurfacing	15.7
401	Trent River Bridge, Hwy 33 overpass	Bridge rehabilitations	n/a
417	8th Line Rd. to Russell Rd., Ottawa	Resurfacing/bridge rehabilitations	7.1
417	Limoges Rd. to 8th Line Rd., Ottawa	Resurfacing	20.0
417	Kenyon - Roxborough Boundary Rd. to Limoges, westbound lanes	Resurfacing	8.9
417	Stormont Dundas and Glengarry Rd. 30, Casselman	Bridge rehabilitations	n/a

Rehabilitation Projects

Western Ontario Rehabilitation 2010

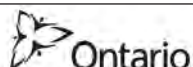


Rehabilitation Projects

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

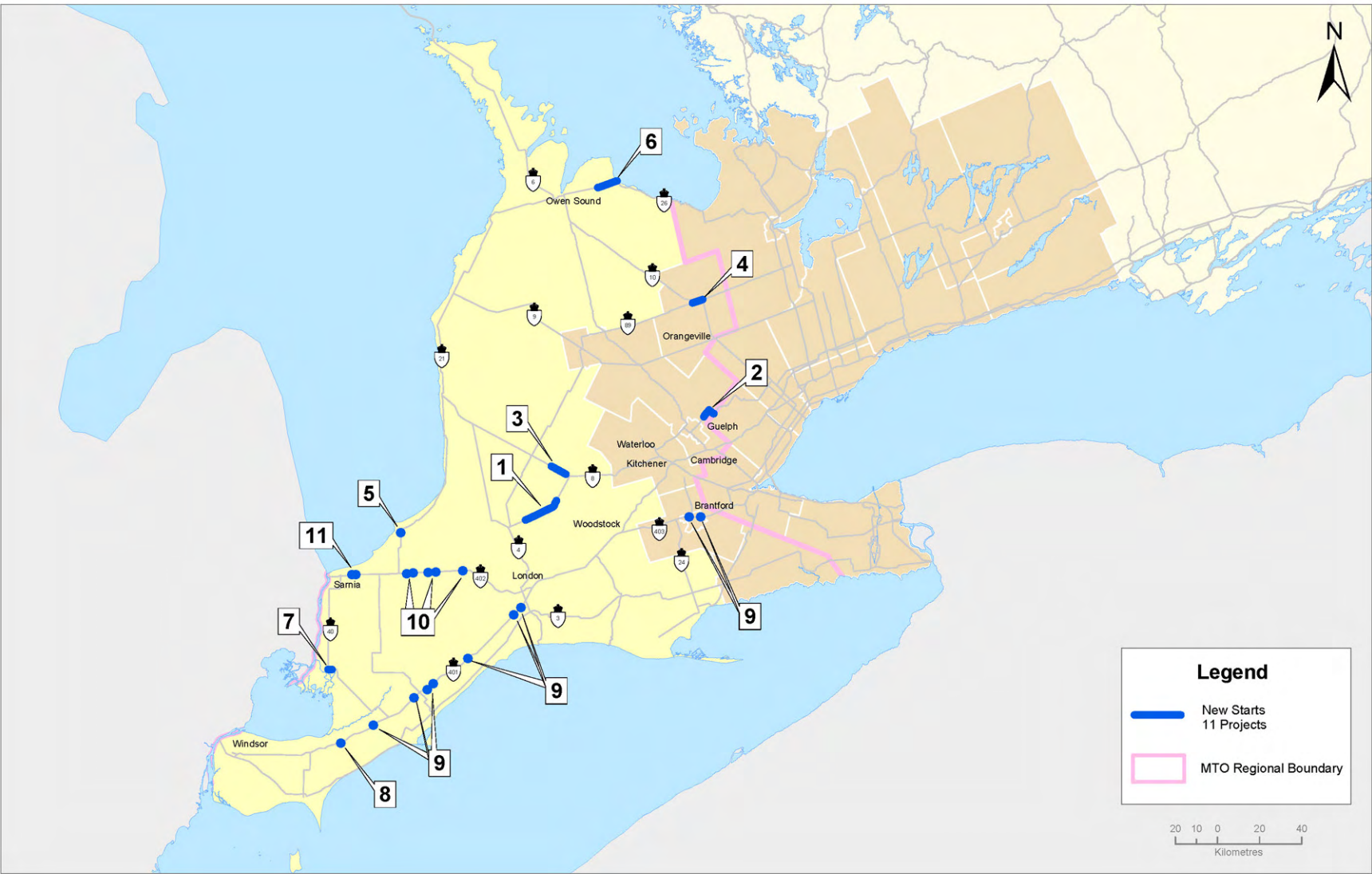
Western Ontario Rehabilitation 2010

Map#	Hwy	Status	Location	Type of Work	Target Completion Date	Project Length (kms)
1	3	New	Renton to Jarvis	Resurfacing	2010	9.0
2	6	New	Mar to Tobermory -Infrastructure Stimulus Fund (ISF)	Resurfacing	2010	67.0
3	6	Underway	Grey Rd. 9 to Durham	Resurfacing/passing lane	2010	10.5
4	6	Underway	Arthur to Mt. Forest	Reconstruction/bridge rehabilitation-replacement/passing lanes	2010	12.5
5	6	New	Hanlon Expressway, Guelph	Intersection improvements	2011	3.2
6	7	New	Shakespeare to New Hamburg	Culvert replacements	2010	n/a
7	8	Underway	Seaforth to Mitchell	Resurfacing/bridge rehabilitation	2010	16.2
8	8	Underway	Goderich to Clinton	Resurfacing/intersection improvements/truck climbing lane	2010	16.8
9	9	Underway	Bruce Rd. 7 to Bruce Rd. 4 / 20, east of Kincardine	Resurfacing	2010	19.1
10	9	New	Mildmay to Clifford -Infrastructure Stimulus Fund (ISF)	Resurfacing	2010	12.4
11	10	New	Dufferin Rd. 10, north of Orangeville	Intersection improvements	2010	n/a
12	21	New	Goderich to Sheppardton -Infrastructure Stimulus Fund (ISF)	Resurfacing	2011	9.0
13	21	New	Glen's Hill Rd. to Huron Rd. 86, Amberley	Resurfacing	2010	13.9
14	21	Underway	Huron Rd. 84 to Bayfield	Resurfacing	2010	16.0
15	21	New	Hwy 9 to Tiverton	Resurfacing	2011	12.3
16	23	New	Newry to Perth Line 84, south of Listowel - Infrastructure Stimulus Fund (ISF)	Resurfacing	2010	8.1
17	24	New	Brant Rd. 53 to Hwy 403, west of Brantford	Resurfacing/bridge replacement	2011	4.7
18	26	Underway	Meaford to Thornbury	Resurfacing/passing lane	2010	9.8
19	40	New	Indian Rd., Sarnia	Intersection improvements	2010	n/a
20	40	Underway	Hwy 401 to Longwoods Rd., south of Chatham	Resurfacing/bridge rehabilitation	2010	7.4
21	40	New	Rokeby Line to Churchill Line, Sarnia	Resurfacing/bridge rehabilitations	2011	8.2
22	40	New	McGregor Rd. to Hwy 402, Sarnia	Resurfacing	2010	5.7
23	85	New	Various interchanges from Hwy 7 to Waterloo Rd. 15, Kitchener, Waterloo	Resurfacing	2010	n/a
24	401	New	Blacks Rd., Furnival Rd., Dunborough Rd., and Southminster Bourne Rd. underpasses, west of London	Bridge rehabilitations	2011	n/a
25	401	New	Essex Rd. 24 to Bloomfield Rd., eastbound lanes, Essex Rd. 42 to 2.2 km east of Drake Rd, westbound lanes, Chatham Infrastructure Stimulus Fund (ISF)	Resurfacing	2010	11.2
26	401	New	Hespeler Rd. to Townline Rd., eastbound lanes, Cambridge	Resurfacing	2010	2.3
27	401	New	London to Woodstock, various locations	Resurfacing	2010	n/a
28	401	New	Orford Rd. to Currie Rd., eastbound lanes, Dutton - Infrastructure Stimulus Fund (ISF)	Resurfacing	2010	13.0
29	7 & 8	New	Courtland Ave. to Hwy 7 IC, Kitchener - Infrastructure Stimulus Fund (ISF)	Resurfacing	2010	3.1



Rehabilitation Projects

Western Ontario Rehabilitation 2011



Rehabilitation Projects

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Western Ontario Rehabilitation 2011

Map #	Hwy	Status	Location	Type of Work	Target Completion Date	Project Length (kms)
1	7	New	Middlesex Rd. 50 to Perth Rd. 9, St. Marys	Resurfacing/bridge rehabilitations	2012	17.8
2	7	New	Rockwood to Halton Rd. 32, Rockwood	Resurfacing/bridge rehabilitation	2012	7.4
3	8	New	Perth Rd. 135 to Stratford	Resurfacing/bridge rehabilitation	2011	7.9
4	10	New	Shelburne to Primrose	Resurfacing	2011	5.0
5	21	New	Shashawanda Creek Bridge, north of Forest	Bridge replacement	2011	n/a
6	26	New	Woodford to Meaford	Resurfacing/truck climbing lane	2012	9.7
7	40	New	Wallaceburg to Chatham-Kent Rd. 33, Wallaceburg	Resurfacing/bridge rehabilitations	2011	2.0
8	401	New	Chatham-Kent Rd. 2 and Dillon Rd. underpass, east of Tilbury	Bridge rehabilitations	2011	n/a
9	401/403	New	Various Bridge locations	Bridge rehabilitations	2013	n/a
10	402	New	Warwick to Strathroy	Bridge rehabilitations	2012	n/a
11	402	New	Sarnia to Hwy 21, Lambton	Bridge rehabilitations	2011	n/a

Rehabilitation Projects

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Western Ontario Rehabilitation 2012 to 2014

Hwy	Location	Type of Work	Project Length (kms)
3	Village of Canfield	Reconstruction	0.7
3	Grand River Bridge, Cayuga	Bridge rehabilitation	n/a
3	Dry Lake Rd. to Cayuga	Resurfacing	7.0
3	Aylmer to Carter Rd.	Resurfacing	7.2
3	John Pound Rd. to Simcoe St., Tillsonburg	Resurfacing	3.7
3	St. Thomas Expressway	Bridge rehabilitations	n/a
4	Ausable River Bridge, south of Hensall	Bridge rehabilitation	n/a
4	Kippen to Clinton	Resurfacing/culvert rehabilitations	15.2
6	Wellington Rd. 7 to Fergus	Resurfacing	13.4
6	Port Dover to Jarvis	Resurfacing	13.2
6	Durham to Dornoch	Resurfacing	16.0
6	Springmount to Hepworth	Resurfacing/bridge rehabilitations/ bridge and culvert replacements	13.7
6	Chatsworth to Owen Sound	Resurfacing	11.0
7	Shakespeare to New Hamburg	Resurfacing	7.6
7	Perth Rd. 9 to Stratford	Resurfacing/intersection improvements/ culvert rehabilitations	9.0
9	Kincardine to Bruce County Rd. 7	Culvert replacements/rehabilitations	n/a
21	Grand Bend to Hendrick Rd.	Resurfacing	7.7
21	Bayfield to Goderich	Resurfacing/culvert rehabilitations	20.0
21	Amberley to Kincardine	Bridge rehabilitations	n/a
21	Tiverton to Port Elgin	Culvert replacements	n/a

continued...

Rehabilitation Projects

NOTE : Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Western Ontario Rehabilitation 2012 to 2014

Hwy	Location	Type of Work	Project Length (kms)
23	Thames River and Flat Creek Bridges, north of Mitchell	Bridge replacement/rehabilitation	n/a
24	Simcoe to Scotland	Resurfacing/Bridge rehabilitation	16.5
24	Glenn Morris Rd. to Waterloo Rd. 43, Cambridge	Resurfacing	6.6
40	Chatham to Wallaceburg	Bridge rehabilitations/replacements	n/a
85	Lancaster St. to Waterloo Rd. 15, Kitchener	Resurfacing/bridge rehabilitations	7.6
89	Mount Forest to Shelburne, various locations	Bridge replacement/bridge rehabilitations/ culvert rehabilitations	n/a
401	Kitchener to Halton Regional Boundary, various locations	Resurfacing	27.0
401	Wellington Rd. 32, Wellington Rd. 35 and Hwy 6 underpasses, Guelph	Bridge rehabilitations	n/a
401	Veterans Memorial Parkway, London	Bridge rehabilitaion	n/a
401	Hwy 4 to Hwy 402, London	Resurfacing	6.0
401	Chatham-Kent, various locations	Bridge rehabilitations	n/a
401	London to Woodstock, various locations	Resurfacing	46.0
401	Tilbury to London, various locations	Resurfacing	n/a
402	Middlesex Rd. 2 to Hwy 401, Middlesex	Bridge rehabilitations	n/a
402	Strathroy to London, various locations	Resurfacing	30.0
402	Middlesex Rd. 81, Strathroy	Culvert rehabilitation	n/a
403	Rest Acres Rd. to Garden Ave., Brantford	Resurfacing	6.4
403	Paris Rd. to Wayne Gretzky Parkway, Brantford	Bridge rehabilitations	n/a

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PLANNING FOR THE FUTURE

Projects Beyond 2014

The Southern Highways Program outlines the projects that will be constructed over the next five years. These projects will ensure that we continue to support growth and address existing highway congestion by expanding and enhancing safety and efficiency on our highways.

The government is aware of the need to plan for the long-term to ensure a first-class transportation infrastructure for the future. The Ministry of Transportation continuously evaluates anticipated transportation needs. Potential future directions include:

- Identifying and implementing transportation solutions on strategic transportation corridors.
- Evaluating options for transit and other modes of transportation.
- Optimizing, expanding or extending existing highways.
- Planning new multi-modal transportation corridors.

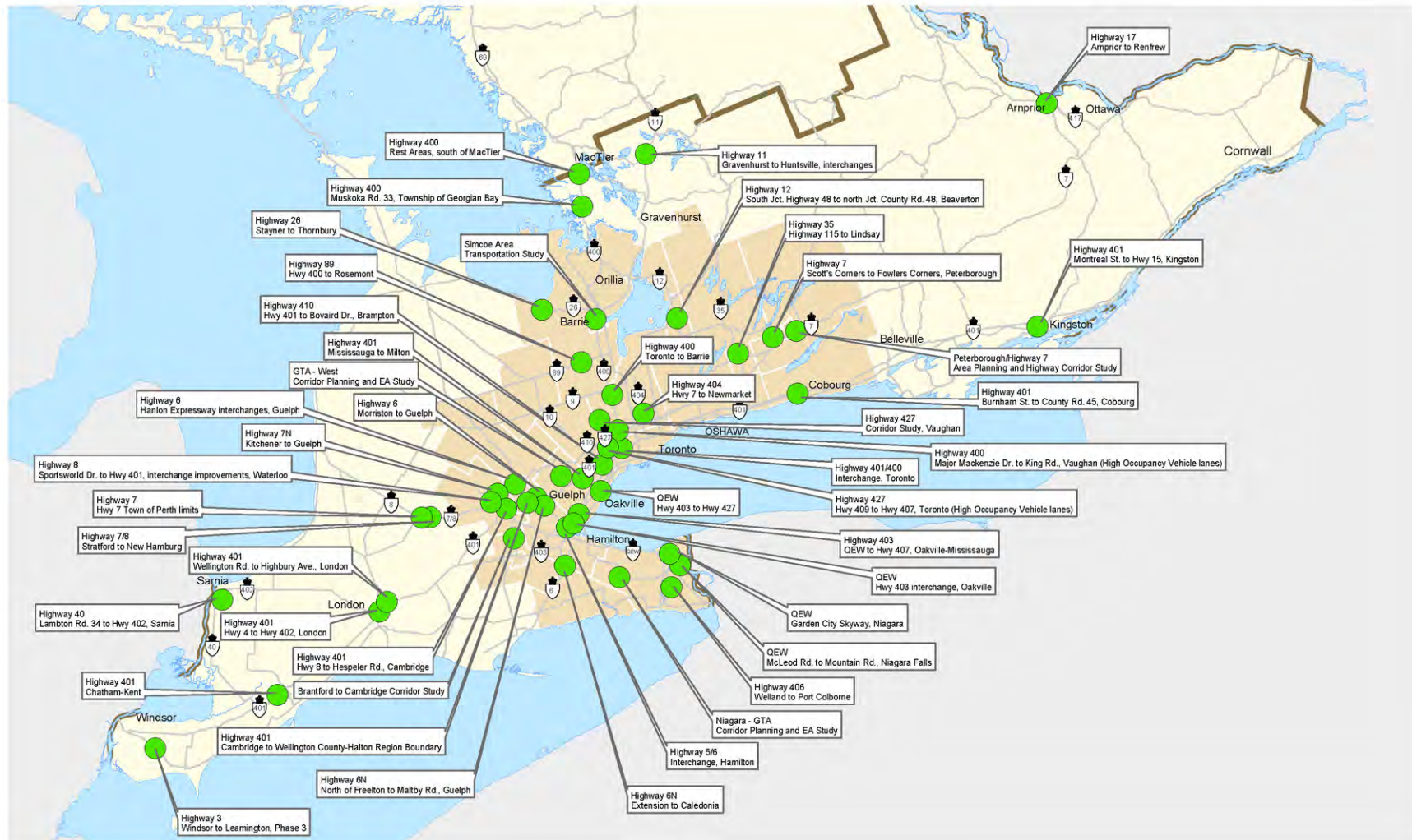
Identified on the following page and on the “Planning for the Future” map are some projects in the planning stages to support growth and economic activities, improve traffic flow and enhance safety in southern Ontario. While the list includes projects that are not part of the current five-year construction plan, they are subject to further study and prioritization and may be considered for future construction.

In addition, the Ontario government is working in partnership with Canada, the United States and the State of Michigan on the Detroit River International crossing, and is committed to working with these partners to deliver a new river crossing, access road and inspection plazas by 2014.

Future Southern Ontario Projects

Provincial Highways Construction Program

Planning for the Future



Planning for the Future

Future Southern Ontario Projects

Area Planning Studies	Description
Brantford to Cambridge	Corridor Study
GTA - West	Corridor Planning and EA Study
Niagara to GTA	Corridor Planning and EA Study
Peterborough / Hwy 7	Area Planning and Highway Corridor Study
Simcoe Area	Area Transportation Study

Hwy	Description
3	Windsor to Leamington, Phase 3
5/6	Interchange, Hamilton
6	Hanlon Expressway interchanges, Guelph
6N	Extension to Caledonia
6N	North of Freelon to Maltby Rd., Guelph
7N	Kitchener to Guelph
7	Hwy 7, Town of Perth limits
7	Scott's Corners to Fowlers Corners, Peterborough
7/8	Stratford to New Hamburg
8	Sportsworld Dr. to Hwy 401, interchange improvements, Kitchener
11	Gravenhurst to Huntsville, interchanges
12	South Jct. Hwy 48 to north Jct. County Rd. 48, Beaverton
17	Arnprior to Renfrew
26	Stayner to Thornbury
35	Hwy 115 to Lindsay

Hwy	Description
40	Lambton Rd. 34 to Hwy 402, Sarnia
89	Hwy 400 to Rosemont
400	Toronto to Barrie
400	Major Mackenzie Dr. to King Rd., Vaughan (High Occupancy Vehicle lanes)
400	Rest areas, south of MacTier
400	Muskoka Rd. 33, Township of Georgian Bay
401/400	Interchange, Toronto
401	Montreal St. to Hwy 15, Kingston
401	Burnham St. to County Rd. 45, Cobourg
401	Mississauga to Milton
401	Cambridge to Wellington County / Halton Region boundary
401	Hwy 8 to Hespeler Rd., Cambridge
401	Hwy 4 to Hwy 402, London
401	Wellington Rd. to Highbury Ave., London
401	Chatham - Kent
403	QEW to Hwy 407, Oakville / Mississauga
404	Hwy 7 to Newmarket
406	Welland to Port Colborne
410	Hwy 401 to Bovaird Dr., Brampton
427	Hwy 409 to Hwy 407, Toronto (High Occupancy Vehicle lanes)
427	Corridor Study, Vaughan
QEW	McLeod Rd. to Mountain Rd., Niagara Falls
QEW	Garden City Skyway, Niagara
QEW	Hwy 403 interchange, Oakville
QEW	Hwy 403 to Hwy 427

Planning for the Future

Area transportation studies are conducted during the planning stage to identify transportation system problems or deficiencies and possible future actions to address these issues. These take a long range and a multi-modal transportation approach to look at transportation needs and opportunities from an area or system-wide perspective. There are several planning studies currently underway. These include the Niagara to Greater Toronto Area (NGTA) and Greater Toronto Area West (GTAW) Planning and Environmental Assessment (EA) Studies, and the Peterborough Area and Highway 7 Corridor Study. Phase 1 of Simcoe Area Transportation Review is underway to collect information on travel patterns and volumes for people and goods in the Simcoe County and surrounding area.

The Highway Planning Process

Planning, design and construction can take up to eight or more years for highway expansion and 10 years or more to build new highways. While this process seems lengthy, it is necessary to: ensure the appropriate solution is selected; reduce the environmental impact of construction; protect the rights of property owners; and ensure design and construction standards are met.

The area transportation studies that are conducted during the planning may lead to the initiation of the Environmental Assessment (EA) process which includes the review of alternatives in greater detail. All public undertakings must receive provincial EA approval. Federal EA approvals may also be required. An EA is conducted to consider natural, economic and social impacts.

- Smaller highway projects, with predictable and manageable environmental effects, go through a Class EA process that requires one to three years to complete. It is an MTO-led process that does not require Ministry of the Environment (MOE) approval.
- Larger and more complex projects such as new transportation corridors with potential for greater environmental impacts, are subject to an Individual EA process that requires formal MOE review and Ministerial/Cabinet approval. This process can take about five years to complete and may involve analysis of all transportation alternatives (road, transit, rail, marine) and alternative new route locations.

The design stage for both Individual and Class EA projects are subject to MTO's Class EA process.

Preliminary design studies include the environmental assessment of broad transportation alternatives and specific highway improvement options.

The next stage, detail design, undertakes engineering tasks such as surveying, testing for soil conditions, determining construction material requirements, and designing interchanges, Bridges, and culverts.

Once the EA has been approved, property acquisition can begin. This can take up to 18 months if expropriation becomes necessary or longer yet, should a property owner appeal expropriation through a Hearing of Necessity. In the Hearing, the Crown must prove sound justification for expropriation.

Timing and duration of highway construction depends on numerous factors, including size and complexity of the project, funding availability, property availability, and timing of environmental clearances and permits. Typically, a new four-lane highway is completed in phases, taking two to three years for each section. Timing and duration can also be affected by special circumstances such as legislation protecting fish spawning or bird nesting periods. In urban settings, much work is done at night or off-peak hours to minimize traffic delays.

During all stages of highway planning and construction, the Ministry of Transportation works collaboratively with a wide range of provincial and federal departments; municipalities; transportation, economic and environmental interest groups; First Nation communities; and the general public.

Background - Southern Highways Program

History of SHP

The Southern Highways Program was first published in 2006 in conjunction with the ReNew Ontario plan. ReNew Ontario is a \$30-billion dollar investment strategy to strengthen Ontario's economy and communities: \$3.4 billion was set out for the renewal and expansion of southern highways over five years

The Ministry of Transportation follows the Class EA and Individual EA processes as directed by the Ontario Environmental Assessment Act. A critical component to these EA processes is consultation with the public during decision-making. In particular, the ministry consults with aboriginal and First Nations communities when proposing work that may affect aboriginal and/or treaty rights or if they express interest in the project. As part of this consultation process, MTO shows consideration for aboriginal and First Nations traditions and customs.

