

Southern Ontario Highways Program 2006 to 2010



JUNE 2006

Overview

Keeping Ontario Strong – Today and in the Future

The government has a vision of a successful and prosperous future for all Ontarians. The government plans to strengthen Ontario's economy and quality of life by significantly investing in its transportation infrastructure. The Southern Ontario Highways Program is part of the government's long-term strategy to ensure a flourishing province for future generations.

Ontario is the economic engine of Canada and the third-largest financial centre in North America. The province's transportation infrastructure is the backbone of the economy. Every year, \$1.2 trillion worth of goods are carried on Ontario's highways and every day \$670 million worth of goods cross the Ontario/US border by road.

Decades of under-investment have left the province with a significant infrastructure deficit and created a backlog of pavement and bridge repairs on the province's highways. Congestion on many highways is hurting our economy, our environment and our quality of life. One hour of delay on Highway 401 costs Ontario's economy about \$600,000. The Ontario Chamber of Commerce estimates that congestion at our borders costs the provincial economy more than \$5 billion per year.

The Southern Ontario Highways Program (SOHP)

The Southern Ontario Highways Program (SOHP) is a \$3.4-billion, five-year investment in highway construction, which has the potential to create 85,000 jobs in the province. The program falls under the government's broader infrastructure

investment plan, called *ReNew Ontario*, announced in May 2005. *ReNew Ontario* is a \$30-billion plan to strengthen Ontario's economy and communities.

The Southern Ontario Highways Program will benefit all Ontarians by:

- Increasing efficiency of moving people and goods across Ontario's highways
- Improving quality of life for Ontarians by decreasing the amount of time Ontarians spend in traffic jams
- Improving air quality by reducing harmful fuel emissions caused by traffic congestion.

Last year, we released the Northern Ontario Highways Strategy, setting out the first ever five-year, \$1.8 billion program for all northern highways.

This year, through the Ministry of Northern Development and Mines' Northern Highways Program, the government will invest a record \$357 million in highway rehabilitation, expansion and safety improvements.

Overview (continued)

The Southern Ontario Highways Program will create a highway system capable of addressing the economic and safety needs of Ontario's growing population.

Under the five-year plan, the Ministry of Transportation plans to:

- Expand Ontario's highway system by 130 kilometres
- Improve pavement and bridge conditions by:
 - Building and replacing 64 new bridges; and
 - Repairing 1,600 kilometres of highways and 200 bridges
- Maintain Ontario's record of having the safest roads in North America.

This report is part of the government's promise to be accountable and transparent in the way it conducts business.



Highway 401 – Windsor to Tilbury

Table of Contents

PART I: Introduction

Geography and Population	1
Provincial Highways and the Economy	1
Transportation Directions	2

PART II: Accomplishments: 2005

2005 Summary of Accomplishments	3
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PART III: Looking Forward: 2006 to 2010

5-Year Summary	5
2006 Summary	8
Highway Expansion Projects	10
Highway Rehabilitation Projects	15

PART IV: Planning for the Future

Future Highway Expansion	37
Highway Planning Process	39

Appendices

2005 Completed Project List	42
National Highway System	48

Part I: Introduction

Geography and Population

Ninety per cent of Ontarians live in Southern Ontario, which is situated between Parry Sound District in the north, Lake Erie in the south, Quebec in the east and Windsor in the west. The greater Golden Horseshoe (GGH) – stretching from Fort Erie through the Niagara Peninsula and across the Greater Toronto Area (GTA) to Peterborough – is one of the fastest growing metropolitan areas in Canada. Over the next 25 years, its population is expected to grow by 3.7 million.

Ontario's transportation system faces enormous challenges from population growth. Without immediate improvements to the province's transportation infrastructure, Ontarians face highway congestion that could cripple the economy and lower the standard for many generations to come. The Southern Ontario Highways Program anticipates the province's future growth and will improve Ontario's highways.

Provincial Highways and the Economy

There are more than 16,500 kilometres of provincial highway in Ontario. Placed end to end, Ontario's highways would span Canada twice. There are approximately 2,800 bridges under provincial jurisdiction in Ontario. The replacement value of Ontario's highways and bridges is approximately \$46 billion.

Of the \$1.2 trillion worth of goods that are transported on provincial highways every year, \$420 billion pass over Canada/US bridge crossings linked to provincial highways. Of the five busiest border crossings in Canada, four are located in Southern Ontario.

More than 90 per cent of all Ontarians reside within 10 kilometres of a provincial highway. During peak periods, about one-third of all cars in Ontario use provincial highways.

Several major highways in Southern Ontario form key sections of the National Highway System (NHS). These highways are identified on the map "National Highway System" in the appendix to this document. They serve a function beyond the needs of Ontario by supporting the broader transportation and economic interests of the nation.

To maximize the benefits of Ontario's investments in provincial highways on the NHS, the province will continue to seek out federal funding contributions through programs such as the Strategic Highway Infrastructure Program (SHIP) and the recently announced Highways and Border Infrastructure Fund (HBIF).

The Ontario government wants to ensure that people and goods move safely and efficiently across the province's highways. The Southern Ontario Highways Program will help to ensure that our highways are safe and reliable, which is vital to economic success and quality of life.

Part I: Introduction (continued)

Transportation Directions

Ontario enjoys a proud transportation history of having the safest roads in North America. In the 1950s and 1960s, the province's transportation system was a model for all of North America.

As part of its on-going commitment to enhancing prosperity in the province, the government announced the new *Move Ontario* initiative in its 2006 Budget. *Move Ontario* is a one-time, \$1.2 billion investment in Ontario's public transit systems and municipal roads and bridges.

Transit

Improving public transit is central to the government's vision for a world-class transportation system. The more Ontarians take transit, the better the highways will function. Fewer drivers on our highways mean less congestion, less smog and faster movement of goods across the province.

Legislation has been passed to establish the Greater Toronto Transportation Authority (GTTA) to improve the planning and coordination of public transit in the GTA.

The Southern Ontario Highways Program will make transit more attractive through the continued development of High Occupancy Vehicle (HOV) lanes on Highway 403, Highway 404 and the Queen Elizabeth Way (QEW). HOV lanes will allow vehicles with two or more passengers to move more quickly across our highways. More people in fewer cars mean less harmful fuel emissions caused by traffic congestion and cleaner air for Ontarians.

Planning for Growth

In June 2006, the government released the *Growth Plan for the Greater Golden Horseshoe*, a strategic approach to planning for growth to ensure continued prosperity and a high quality of life in this part of the province. The Southern Ontario Highways Program supports the implementation of the principles and policies of the Growth Plan and its strategic investment objectives.

Border Improvements

Border crossings in Southern Ontario are the gateways to the province's biggest international market. Moving goods across the border efficiently is critical to our economic prosperity. The Windsor-Detroit Gateway alone handles about one-third of Canada's total exports by road to the United States.

Ontario is participating with the federal government, local municipalities and other agencies to make investments that will relieve congestion at the border crossing in Windsor, under the Let's Get Windsor-Essex Moving Strategy. Other partnerships, investments and improvements will also relieve congestion at border crossings in Sarnia and Niagara. This includes improvements to reduce traffic on local roads around border crossings.

The Southern Ontario Highways Program outlines improvements to provincial highway infrastructure approaching border crossings.

Part II: Accomplishments 2005

In 2005, the Ontario government invested \$656 million to expand and repair highway infrastructure in Southern Ontario.

Some of the projects completed include:

High Occupancy Vehicle (HOV) lanes on Highway 403 from Highway 401 to Highway 407 in Mississauga and Highway 404 southbound lanes from Highway 401 to Beaver Creek through Toronto and York Region: These are the first-ever HOV lanes on provincial highways in Ontario. HOV lanes will help to ease congestion and shorten commute times.

New interchange at Salem Road and Highway 401 widening in Ajax: More than 130,000 vehicles and \$600 million worth of goods travel this section of Highway 401 every day. By 2012, those numbers are expected to increase by 30 per cent. Investing in this area will improve traffic flow and safety and help ensure future prosperity.

New interchanges on the QEW at Third Line in Oakville and Guelph Line in Burlington: Changes on this section of the QEW provide improved traffic flow and safety for motorists.

Four to six-lane widening on Highway 401 from County Road 2 to County Road 28 in Port Hope: The changes make the area safer and more accessible and therefore, more attractive to economic growth.

Four to six-lane widening on Highway 401 from west of Highway 77 to east of Essex Road 42 near Tilbury: Every day, more than 24,000 vehicles travel this route, which leads to Ontario's busiest border crossing in Windsor. Widening the lanes on this stretch of highway greatly improves safety and traffic flow on Ontario's most important trade corridor. This is a federal/provincial cost shared project under the Strategic Highway Infrastructure Program (SHIP).

A complete listing of the major highway construction projects completed in 2005 is provided in the Appendix to this document.

A summary of the accomplishments related to the 2005 construction program is outlined below:

- **Built 53 km of additional highway**
- **Built 13 new bridges**
- **Repaired 37 bridges**
- **Repaired 194 km of highways**
- **Built 6 new interchanges**
- **Operational improvements included shoulder improvements, highway lighting, intersection and interchange improvements and median barriers**
- **Over 16,000 jobs were created across Ontario**

Part III: Looking Forward: 2006 to 2010



Highway 417 - County Road 29, east of Arnprior



Highway 8 - Kitchener-Waterloo Expressway

5-Year Summary

Keeping Roads Safe for Ontarians

The government is investing in highways to prolong highway life, improve road safety and reduce wear and tear on vehicles.

As part of *ReNew Ontario*, the government will invest \$2.0 billion in Southern Ontario to repair approximately 1,600 kilometres of highways and 200 bridges.

There are over 5,500 kilometres of highways and close to 2,000 bridges under provincial jurisdiction in Southern Ontario. Preserving the existing provincial highway infrastructure through rehabilitation projects is a major priority in 2006 and future years.

The Ministry of Transportation inspects and measures the condition of pavements every year and bridges every two years. When evaluating the need for highway improvements, the first priority is the safety of the travelling public.

The government will provide annual updates on the progress of Southern Ontario Highways Program. A variety of factors, including weather conditions and design changes, can affect the timing of work.



Highway 401 - Gananoque

5-Year Summary (continued)

Strengthening Our Infrastructure for the Future

As part of *ReNew Ontario*, the government will invest \$1.4 billion in Southern Ontario to expand approximately 130 kilometres of highways and construct 64 bridges.

The Ministry of Transportation will proceed with expansion projects needed that support Ontario's economic growth and competitiveness, with an emphasis on key trade corridors and international border crossings. The ministry is also continuing to develop a High Occupancy Vehicle (HOV) lane network to relieve congestion and support transit use. Some key expansion projects include:

Four to six-lane widening of Highway 401 from Woodstock to Cambridge: Expanding 33 km of this highway will make the area more accessible and therefore, more attractive to economic growth.

Four to six-lane widening of Highway 401 from Windsor to Tilbury: Every day, more than 24,000 vehicles travel this route, which leads to Ontario's busiest border crossing in Windsor. Expanding 36 km of this highway eases traffic flow and improves safety.

Two to four-lane widening of Highway 7 from Highway 417 to Carleton Place: Widening 25 km of this highway improves safety and traffic flow.

High Occupancy Vehicle (HOV) lanes on QEW from Oakville to Burlington and Highway 417 from Highway 416 to Palladium Drive in Ottawa: The ministry is planning to add almost 17 km of new HOV lanes on the QEW and 14 km on Highway 417. Drivers can expect less congestion and shorter commute times.



Highway 403 HOV lane, Mississauga

5-Year Summary (continued)

Extending Highway 410 from Bovaird Drive to Highway 10 in Brampton. Work on this highway will improve travel times giving drivers more time to spend with their family and friends.

Continuing to extend Highway 404 from Green Lane to Ravenshoe Road in York Region. Changes will get travellers to recreational destinations in the area faster.

The government will provide annual updates on the progress of Southern Ontario Highways Program. Due to unpredictable aspects of highway planning and construction, planned expansion projects are subject to change. Factors such as weather, environmental considerations and approvals, traffic staging, design changes and unexpected field conditions can affect construction schedules. It is important to recognize that these conditions may have an impact on project timing.

Protecting the Environment

The government is committed to protecting the environment, and minimizing damage to the environment during highway construction. The province conducts thorough environmental reviews before starting construction, and works closely with the federal government to protect wildlife, including fish habitats and migratory and nesting birds.

The province also minimizes the amount of salt entering the environment in winter by using the latest maintenance technologies, and conserves energy in traffic signals on provincial highways, by using energy efficient light emitting diodes (LED).



Highway 417 – Mississippi River Bridges, Ottawa

2006 Summary

In 2006, the Ontario Government plans to invest \$762 million to expand and repair highway infrastructure in Southern Ontario.

Key projects include:

GTA – Toronto & Peel Region

- Rebuilding southbound express lanes on Highway 427 between the QEW and Highway 401. Resurfacing Highway 427 will provide a smoother driving surface for motorists. Expected completion: 2006
- Lighting improvements on Highway 401 from Highway 427 to Renforth Drive. These upgrades will improve road safety. Expected completion: 2006
- The second phase of the four-lane extension on Highway 410 between Bovaird Drive and Mayfield Road has begun. This will improve travel time for commuters. Expected completion: 2008.

GTA - Durham Region

- Intersection improvements on Highway 7A in Manchester make the intersection safer for drivers and pedestrians. Expected completion: 2006
- Bridge replacements at White's Creek and Beaverton River on Highway 12 will keep drivers moving efficiently through the Beaverton area. Expected completion: 2007.

GTA - York Region

- Traffic signals and intersection improvements at three interchange locations on Highway 404 – at Aurora Road 15, at Bloomington Road and at Stouffville Road. New turning lanes and traffic signals make these locations safer for pedestrians and drivers. Expected completion: 2006.

GTA – Halton Region

- Widening the bridges at Bronte Creek and Sixteen Mile Creek to accommodate the planned future HOV lanes on the QEW - an important international trade corridor through Oakville and Burlington. Expected completion: 2007.

Ottawa & Eastern Ontario

- Widening Highway 7 from two to four-lanes from Highway 417 to 1.8 km west of Jinkinson Road. Expansion will improve safety and traffic flow for motorists. Expected completion: 2008
- Rebuilding Highway 15 and building new passing lanes from Smiths Falls to Lanark Road 10. Expected completion: 2007.

Niagara Region

- Intersection improvements at Montrose Road on Highway 420. Expected completion: 2006

2006 Summary (continued)

- Pier repairs to Garden City Skyway Bridge on the QEW. Expected completion: 2006
- Intersection improvements at East Main Street on Highway 140 in Welland. Expected completion: 2006.

Simcoe County

- Rebuilding Highway 400 from Highway 11 to Highway 93 north of Barrie. These improvements will provide drivers with a smoother driving surface. Expected completion: 2009
- Reconstruction, bridge repairs, intersection improvements and truck climbing lane on Highway 12 from Prices Corners to Coldwater. These improvements will improve road safety and access for local residents. Expected completion: 2008.

London & Sarnia

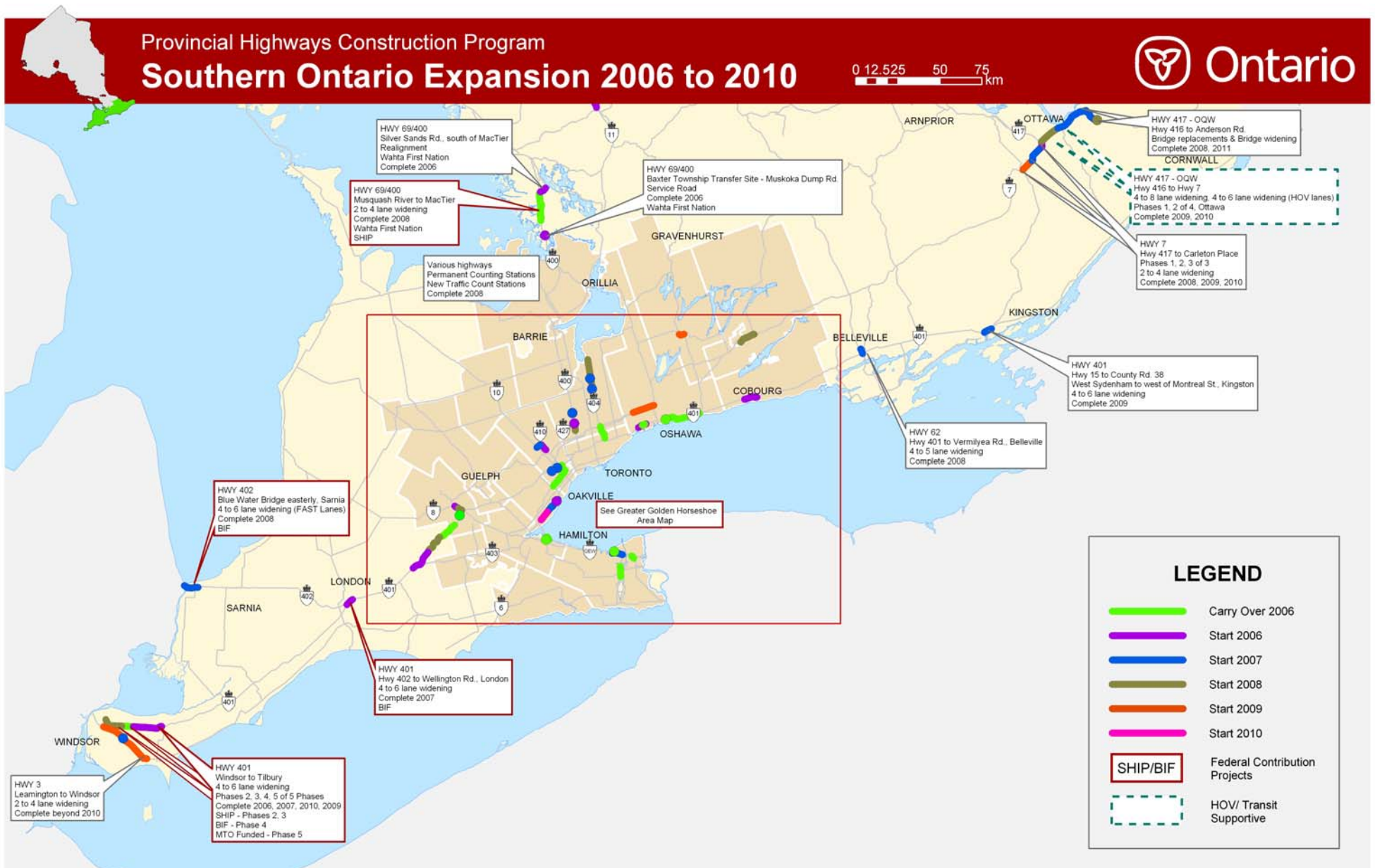
- Widening Highway 401 from four lanes to six-lanes from Highway 402 to Wellington Road in London. This is a federal/provincial cost shared project under the Border Infrastructure Fund (BIF). Expanding the highway will get drivers where they want to go quickly and easily and will improve access to the border points at Windsor and Sarnia. Expected completion: 2007
- Rebuilding Highway 402 from Lambton Road 26 to east of Lambton Road 30, near Sarnia. This is a federal/provincial cost shared project under the Border Infrastructure Fund (BIF). Improvements to this stretch of highway will improve safety and traffic flow for drivers travelling to and from the Blue Water Bridge crossing in Sarnia. Expected completion: 2009.

Windsor

- Four to six-lane widening of Highway 401 from Essex Road 27 to Highway 77 near Windsor. This is a federal/provincial cost shared project under the Strategic Highway Infrastructure Program (SHIP). Expanding this stretch of highway will improve safety and traffic flow on Ontario's most important trade corridor. Expected completion: 2007.

The overall planned improvements related to the 2006 construction plan include:

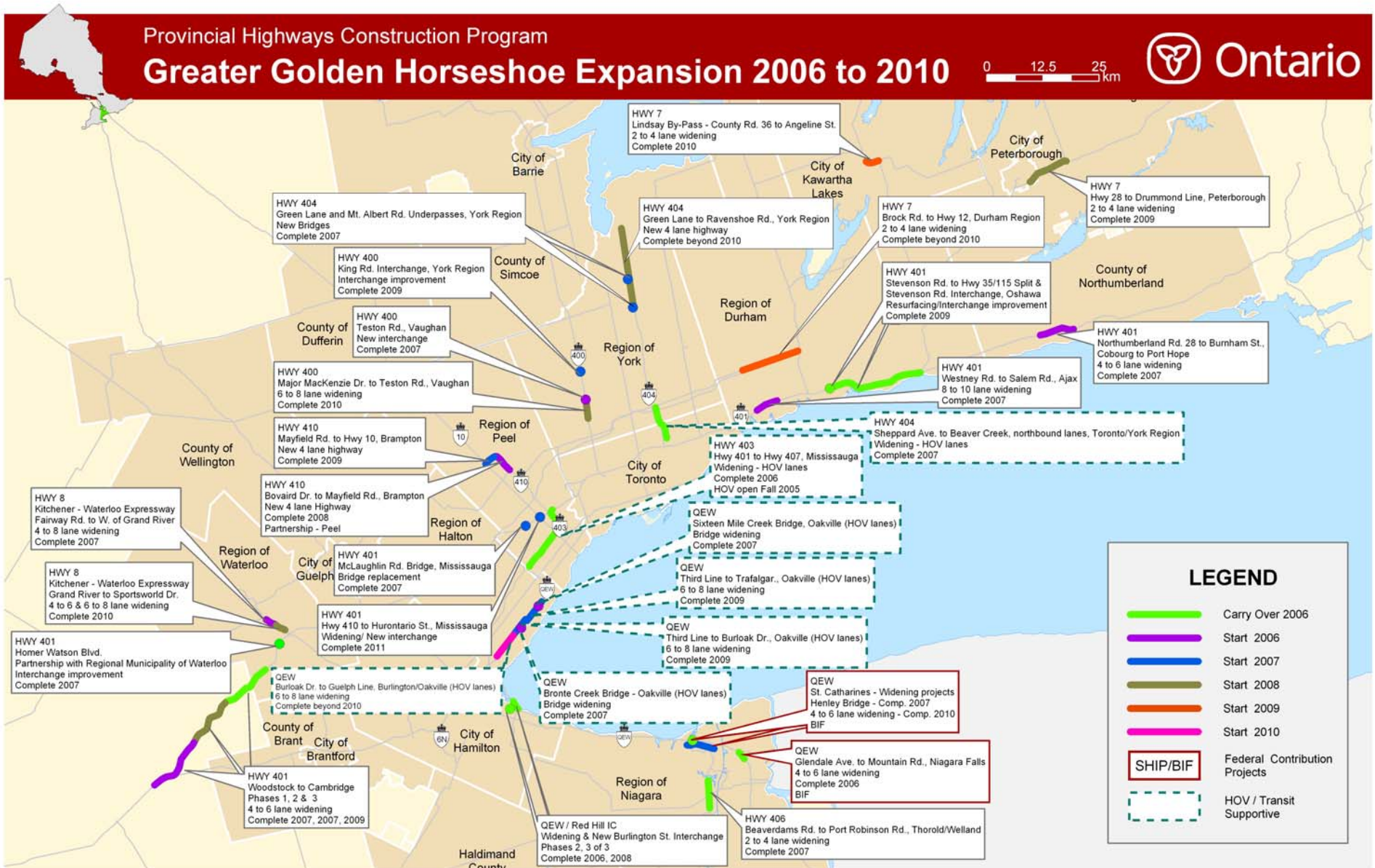
- **Building 29 km of additional highways**
- **Building 3 new bridges**
- **Repairing 34 bridges**
- **Repairing 408 km of highway**
- **Operational improvements including noise barriers, truck climbing lanes, traffic signals, highway lighting, intersection and interchange improvements, median barriers, rumble strips and passing lanes**
- **Creating over 19,000 jobs across Ontario.**



Southern Ontario Expansion 2006 to 2010

HWY	REGION	LOCATION	DESCRIPTION	TARGET START DATE	TARGET COMPLETION
7	Eastern Ontario	Hwy 417 to Carleton Place - Phase 1 of 3 - Hwy 417 to Jinkinson Rd.	2 to 4 lane widening	2006	2008
7	Eastern Ontario	Hwy 417 to Carleton Place - Phase 2 of 3 - Jinkinson Rd. to Ashton Station Rd.	2 to 4 lane widening	2007	2009
7	Eastern Ontario	Hwy 417 to Carleton Place - Phase 3 of 3 - Ashton Station Rd. to Carleton Place	2 to 4 lane widening	2009	2010
62	Eastern Ontario	Hwy 401 to Vermilyea Rd., Belleville	4 to 5 lane widening	2007	2008
401	Eastern Ontario	Hwy 15 to County Rd. 38 - West of Sydenham Rd. to west of Montreal St., Kingston	4 to 6 lane widening	2007	2009
417 - QQW	Eastern Ontario	Hwy 416 to Eagleson Rd. - Phase 1 of 4, Ottawa (HOV lanes)	4 to 8 lane widening	2007	2009
417 - QQW	Eastern Ontario	Eagleson Rd. to Hwy 7 - Phase 2 of 4, Ottawa (HOV lanes)	4 to 6 lane widening	2008	2010
417 - QQW	Eastern Ontario	Hwy 416 to Anderson Rd. - Clyde Rd., Carling Ave., Kirkwood Rd. Bridges, Ottawa	Bridge replacements & widening	2008	2011
417 - QQW	Eastern Ontario	Hwy 416 to Anderson Rd. - Island Park Dr. Overpass, Ottawa	Bridge widening	2007	2008
69/400	Northeastern Ontario	Baxter Township Transfer Site - Muskoka Dump Rd. (Wahta First Nation)	Service Road	2006	2006
69/400	Northeastern Ontario	Musquash River to MacTier - (Wahta First Nation) (SHIP)	2 to 4 lane widening	underway	2008
69/400	Northeastern Ontario	Silver Sands Rd., south of MacTier (Wahta First Nation)	Realignment	2006	2006
Various	Northeastern & Central Ontario	Permanent Counting Stations (SHIP)	New Traffic Count Stations	underway	2006
3	Southwestern Ontario	Leamington to Windsor	2 to 4 lane widening	2007	Beyond 2010
401	Southwestern Ontario	Windsor to Tilbury - Phase 2 of 5 - Manning Rd. to Puce Rd. (SHIP)	4 to 6 lane widening	underway	2006
401	Southwestern Ontario	Windsor to Tilbury - Phase 3 of 5 - Essex Rd. 27 to Hwy 77 (SHIP)	4 to 6 lane widening	2006	2007
401	Southwestern Ontario	Windsor to Tilbury - Phase 4 of 5 - Hwy 3 to Manning Rd. (BIF)	4 to 6 lane widening	2008	2010
401	Southwestern Ontario	Windsor to Tilbury - Phase 5 of 5 - Puce Rd. to Essex Rd. 27	4 to 6 lane widening	2008	2009
401	Southwestern Ontario	Hwy 402 to Wellington Rd., London (BIF)	4 to 6 lane widening	2006	2007
402	Southwestern Ontario	Blue Water Bridge easterly, Sarnia (BIF)	4 to 6 lane widening (FAST lanes)	2007	2008

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



Greater Golden Horseshoe Expansion 2006 to 2010

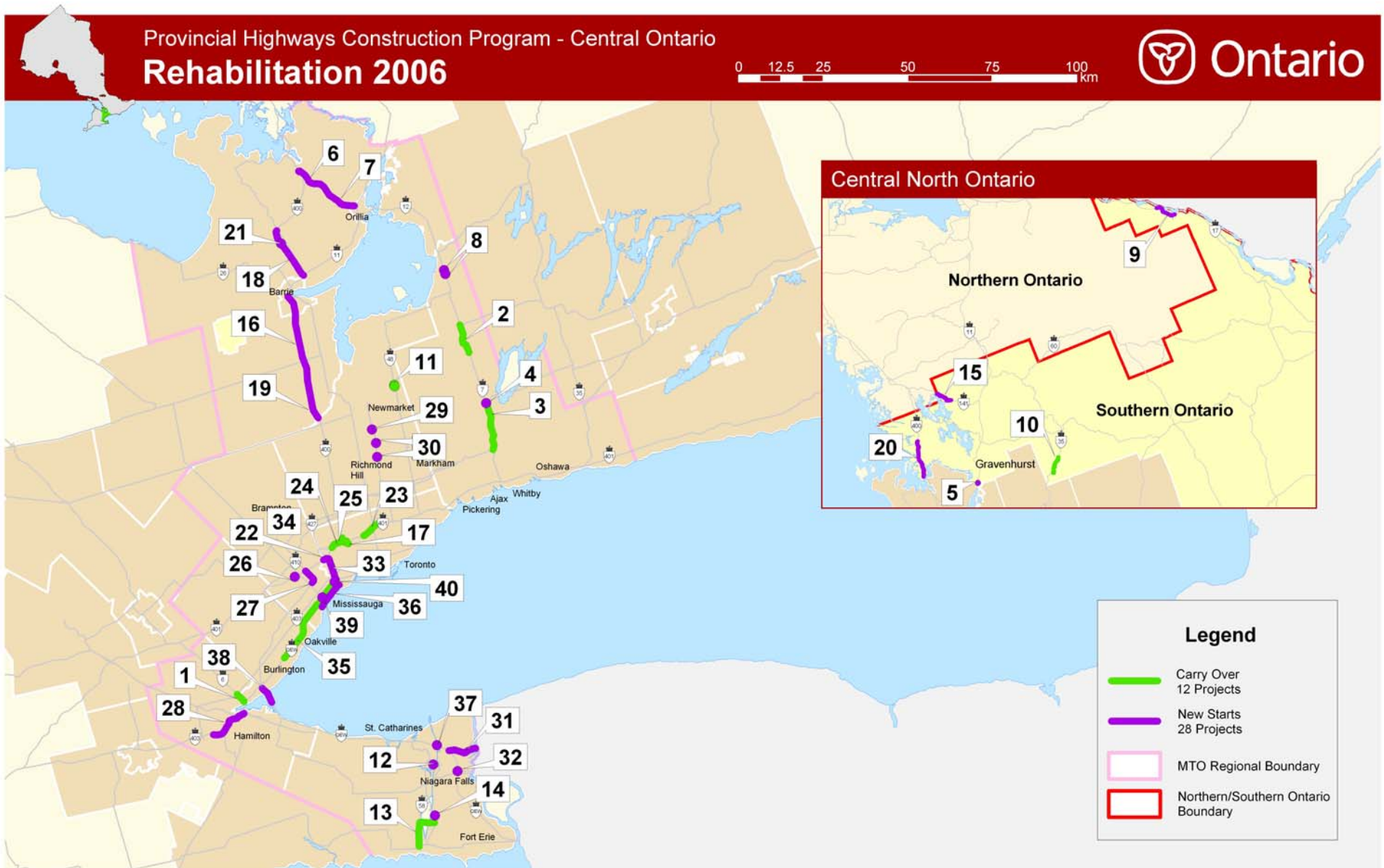
HWY	REGION	LOCATION	DESCRIPTION	TARGET START DATE	TARGET COMPLETION
7	Central Ontario	Brock Rd. to Hwy 12, Durham Region	2 to 4 lane widening	2009	Beyond 2010
400	Central Ontario	King Rd. Interchange, York Region	Interchange improvement	2007	2009
400	Central Ontario	Major Mackenzie Dr. to Teston Rd., Vaughan	6 to 8 lane widening	2008	2010
400	Central Ontario	Teston Rd., Vaughan	New interchange	2006	2007
401	Central Ontario	Westney Rd. to Salem Rd., Ajax	Widening	2006	2007
401	Central Ontario	Stevenson Rd. to Hwy 35/115 Split & Stevenson Rd. Interchange, Oshawa	Resurfacing/Interchange improvement	underway	2009
401	Central Ontario	McLaughlin Rd. Bridge, Mississauga	Bridge replacement	2007	2007
401	Central Ontario	Hwy 410 to Hurontario St., Mississauga	New interchange/Widening	2007	2011
403	Central Ontario	Hwy 401 to Hwy 407, Mississauga (HOV lanes)	Widening	underway	HOV Fall 2005, overall work Summer 2006
404	Central Ontario	Sheppard Ave. to Beaver Creek, northbound lanes, Toronto/York Region (HOV lanes)	Widening	underway	2007
404	Central Ontario	Hwy 404 Extension - Mount Albert Rd. Underpass, York Region	New bridge	2007	2007
404	Central Ontario	Hwy 404 Extension - Green Lane Underpass, York Region	New bridge	2007	2007
404	Central Ontario	Green Lane to Ravenshoe Rd., York Region	New 4 lane highway	2008	Beyond 2010
406	Central Ontario	Beaverdams Rd. to Port Robinson Rd., Thorold/Welland	2 to 4 lane widening	underway	2007
410	Central Ontario	Bovaird Dr. to Mayfield Rd., Brampton	New 4 lane highway	2006	2008
410	Central Ontario	Mayfield Rd. to Hwy 10, Brampton	New 4 lane highway	2007	2009
QEW	Central Ontario	Glendale Ave. to Mountain Rd., Niagara Falls (BIF)	4 to 6 lane widening	underway	2006

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

Greater Golden Horseshoe Expansion 2006 to 2010 (continued)

HWY	REGION	LOCATION	DESCRIPTION	TARGET START DATE	TARGET COMPLETION
QEW	Central Ontario	Red Hill Valley Parkway Interchange - Connection to QEW, Phase 2 of 3, Hamilton	New interchange & Advance grading	underway	2006
QEW	Central Ontario	Red Hill Valley Parkway Interchange - Connection to QEW, Phase 3 of 3, Hamilton	New interchange & Widening	underway	Interchange to be open 2007, QEW widening 2008
QEW	Central Ontario	Henley Bridge, St. Catharines (BIF)	4 to 6 lane widening	underway	2007
QEW	Central Ontario	Widening through St. Catharines (BIF)	4 to 6 lane widening	2007	2010
QEW	Central Ontario	Bronte Creek Bridge, Oakville (HOV lanes)	Bridge widening	2006	2007
QEW	Central Ontario	Sixteen Mile Creek Bridge, Oakville (HOV lanes)	Bridge widening	2006	2007
QEW	Central Ontario	Third Line to Burloak Dr., Oakville (HOV lanes)	6 to 8 lane widening	2007	2009
QEW	Central Ontario	Third Line to Trafalgar Rd., Oakville (HOV lanes)	6 to 8 lane widening	2007	2009
QEW	Central Ontario	Burloak Dr. to Guelph Line, Burlington/Oakville (HOV lanes)	6 to 8 lane widening	2010	Beyond 2010
7	Eastern Ontario	Hwy 28 to Drummond Line, Peterborough	2 to 4 lane widening	2008	2009
7	Eastern Ontario	Lindsay By-Pass - County Rd. 36 to Angeline St.	2 to 4 lane widening	2009	2010
401	Eastern Ontario	Cobourg to Port Hope - Northumberland Rd. 28 to Burnham St.	4 to 6 lane widening	2006	2007
8	Southwestern Ontario	Kitchener-Waterloo Expressway - Fairway Rd. to Grand River	4 to 8 lane widening	2006	2007
8	Southwestern Ontario	Kitchener-Waterloo Expressway - Grand River to Sportsworld Dr.	4 to 6 & 6 to 8 lane widening	2008	2010
401	Southwestern Ontario	Woodstock to Cambridge - Drumbo Rd. to Waterloo R.R. 97 (Cedar Creek) - Phase 1 of 3	4 to 6 lane widening	underway	2007
401	Southwestern Ontario	Woodstock to Cambridge - Hwy 403 to Oxford Rd. 2 - Phase 2 of 3	4 to 6 lane widening	2006	2007
401	Southwestern Ontario	Woodstock to Cambridge - Oxford Rd. 2 to Drumbo Rd. - Phase 3 of 3	4 to 6 lane widening	2008	2009
401	Southwestern Ontario	Homer Watson Blvd. (Partnership with Regional Municipality of Waterloo)	Interchange improvement	underway	2007

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



Central Ontario Rehabilitation 2006

HWY MAP #	HWY	STATUS	LOCATION	DESCRIPTION	TARGET COMPLETION	PROJECT LENGTH (KM)
1	6	underway	Hwy 403 to Hwy 5, Hamilton	Reconstruction/New interchange/Truck climbing lane/Noise barrier/Median barrier	2008	3.0
2	7	underway	Brock Township 2nd Line to Hwy 7/12, west of Peterborough	Reconstruction/Bridge replacement/Traffic signals	2006	9.0
3	7	underway	Manchester to Brooklin	Resurfacing/Truck climbing lanes	2006	11
4	7	new	Hwy 7A, Manchester	Intersection improvements	2006	n/a
5	11	new	Severn River Bridge, south of Gravenhurst	Bridge rehabilitation	2009	n/a
6	12	new	Prices Corners to Coldwater	Reconstruction/Bridge rehabilitation/Intersection improvements/Truck climbing lane	2008	15.0
7	12	new	Orillia to Prices Corners	Resurfacing	2006	5.5
8	12	new	White's Creek & Beaverton River Bridges, Durham Region	Bridge replacements	2007	n/a
9	17	new	Renfrew County Rd. 635 easterly, Rolphton	Reconstruction	2007	12.8
10	35	underway	South of south Junction County Road 121 northerly, Carnavon	Reconstruction/Passing lanes	2006	10.7
11	48	underway	Mount Albert and Black River Bridges	Bridge replacement/Rehabilitation	2006	n/a
12	58	new	Thorold - CNR Underpass	Bridge painting	2006	n/a
13	58/58A	underway	Hwy 3 to Forks Rd. and Hwy 58 to Netherby Rd., Welland	Resurfacing	2006	6.9
14	140	new	Regional Rd. 27 (East Main St.), Welland	Intersection improvements	2006	n/a
15	141	new	East of Hwy 400 easterly, Rosseau	Resurfacing	2006	10.7
16	400	underway	Hwy 89 to Innisfil	Guide rail repairs	2006	9.7
17	400	underway	Maple Leaf Dr. to Hwy 401, Toronto	Resurfacing/Median barrier replacement	2006	2.8
18	400	new	Hwy 11 to Hwy 93, north of Barrie	Reconstruction/Bridge rehabilitation	2009	16.6
19	400	new	North of Canal Rd. to Barrie	Catch basin repairs	2006	40.0

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

Central Ontario Rehabilitation 2006 (continued)

HWY MAP #	HWY	STATUS	LOCATION	DESCRIPTION	TARGET COMPLETION	PROJECT LENGTH (KM)
20	400	new	Port Severn to Muskoka Rd. 38, northbound lanes	Reconstruction	2007	22.6
21	400	new	CPR Bridge, northbound lanes, north of Barrie	Bridge replacement	2007	n/a
22	401	new	Hwy 427 to Renforth Dr., Toronto	Lighting improvements	2006	1.0
23	401	underway	Leslie St. to Avenue Rd., eastbound collector lanes, Toronto	Bridge rehabilitations Reconstruction/Noise barrier	2007	5.9
24	401	underway	Jane St. to Kipling Ave., eastbound collector lanes, Toronto	Bridge rehabilitations/Reconstruction	2007	5.0
25	401	underway	Jane St. to Kipling Ave., westbound express lanes, Toronto	Bridge rehabilitations/Reconstruction	2007	5.0
26	401	new	Mavis Rd., Mississauga	Ramp improvements	2006	n/a
27	403	new	Hwy 401/403 Interchange to Central Parkway, Mississauga	Lighting improvements	2006	4.5
28	403	new	King St. to Wilson St., - Hamilton	Resurfacing/Operational improvements/Noise barriers	2007	12.0
29	404	new	Aurora Rd. 15/York Rd. 15 - York Region	Traffic signals	2006	n/a
30	404	new	Bloomington Rd. & Stouffville Rd., York Region	Traffic signals	2006	n/a
31	405	new	QEW to Queenston Lewiston Bridge Toll Plaza	Queue end warning signs	2006	8.6
32	420	new	Montrose Rd., Niagara Falls	Intersection improvements	2006	0.4
33	427	new	QEW to Hwy 401, southbound express lanes, Toronto	Reconstruction	2006	7.0
34	Various	new	Various Hwys within Central Region	Resurfacing	2006	n/a
35	QEW	underway	Third Line to Hwy 427	COMPASS improvements	2007	25.0
36	QEW	new	Mississauga Rd. to Hwy 427, Mississauga	Resurfacing	2006	9.0
37	QEW	new	Garden City Skyway Bridge, St. Catharines	Pier repairs	2006	n/a
38	QEW	new	Eastport Dr. to Fairview St., Hamilton/Burlington	3 Overhead sign replacements	2006	n/a
39	QEW	new	Hurontario St., Mississauga	Interchange reconstruction	2008	n/a
40	QEW	new	West of Evans Ave., Mississauga	Overhead sign replacement	2006	n/a

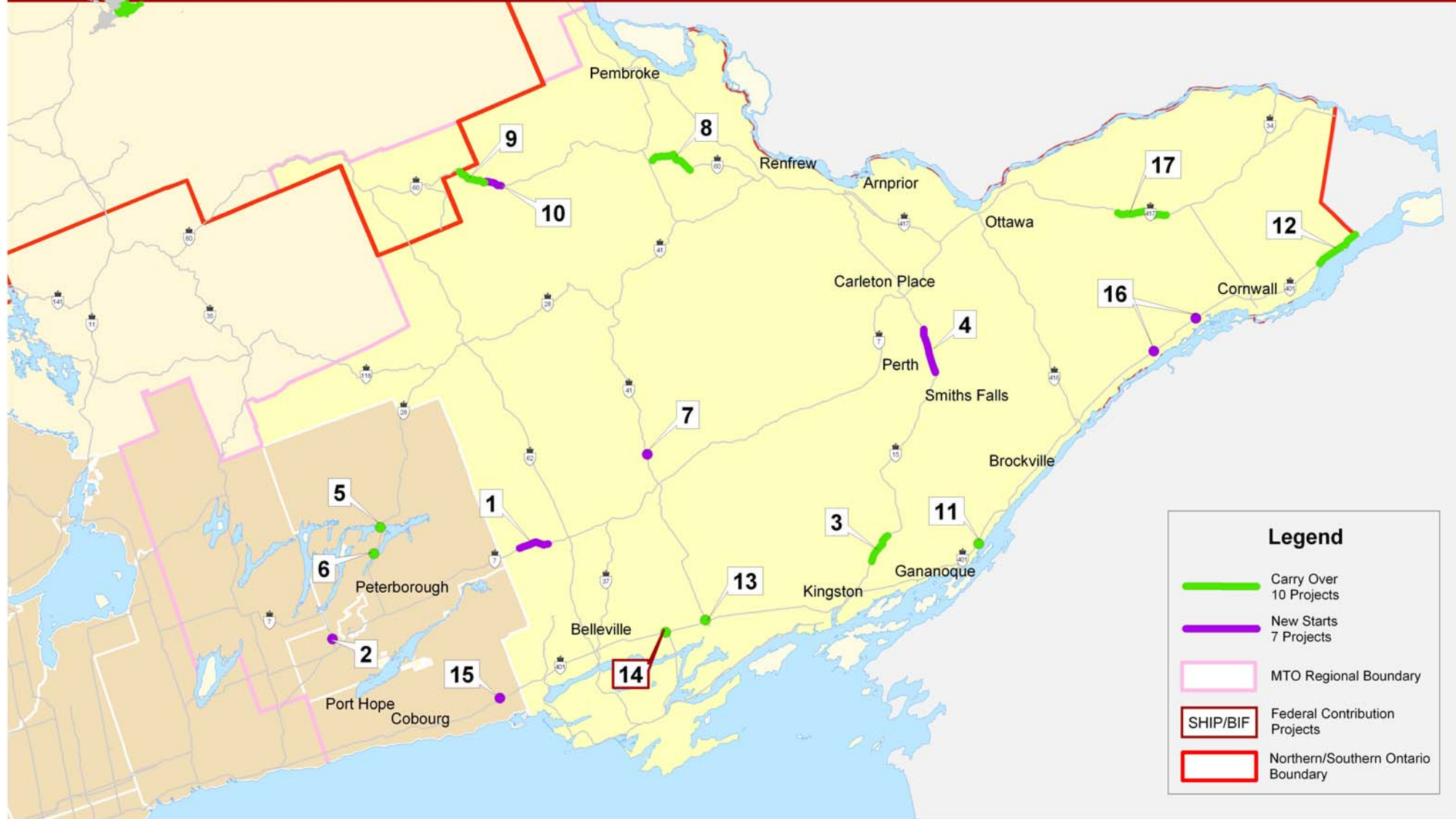
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Provincial Highways Construction Program - Eastern Ontario

Rehabilitation 2006

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Eastern Ontario Rehabilitation 2006

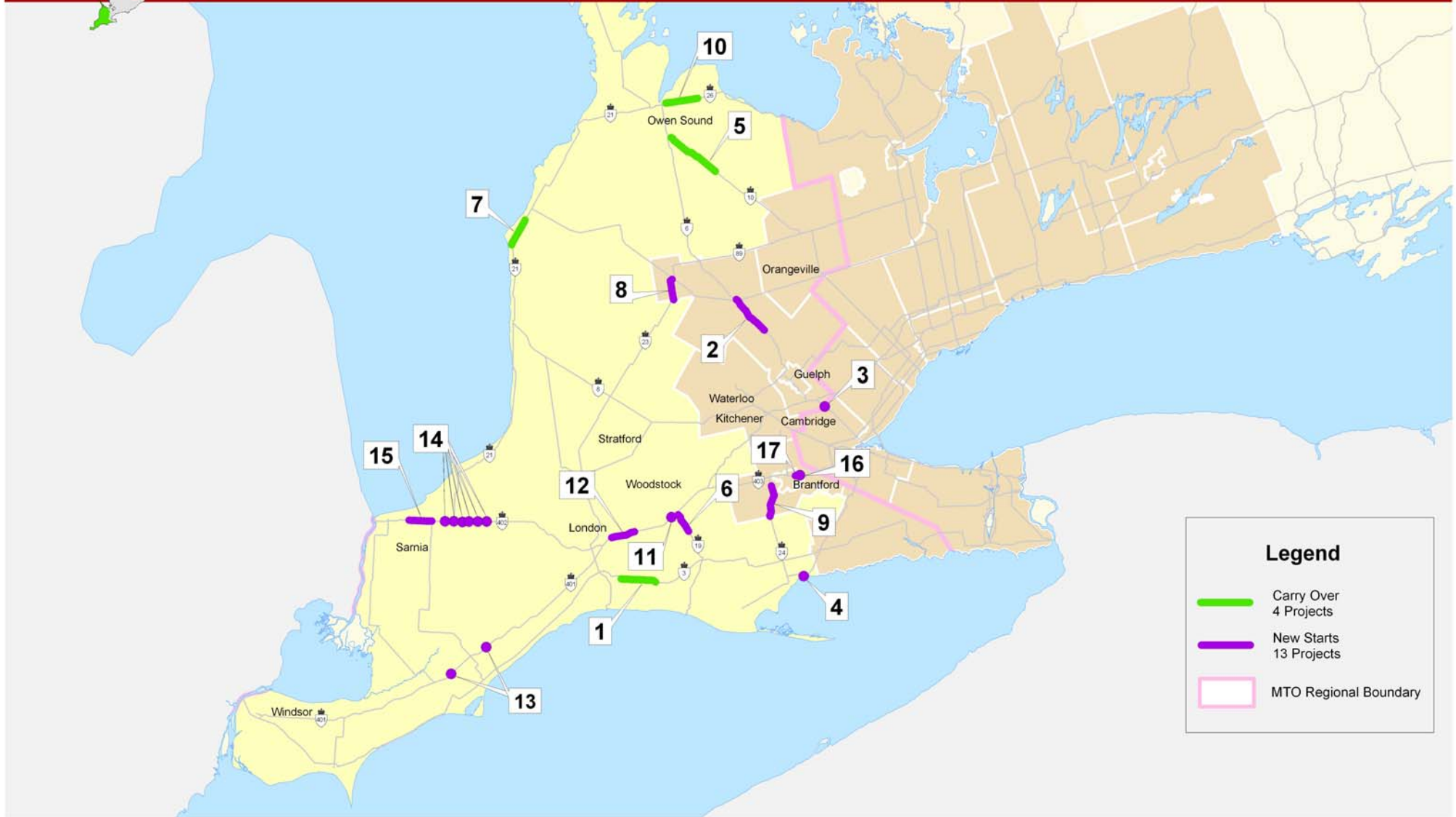
HWY MAP #	HWY	STATUS	LOCATION	DESCRIPTION	TARGET COMPLETION	PROJECT LENGTH (KM)
1	7	new	West of Hwy 62 to Marmora	Resurfacing/Passing lanes	2008	9.5
2	7	new	Parkhill Rd., Peterborough	Intersection improvements	2006	1.5
3	15	underway	Washburn Rd. to Frontenac Leeds Boundary	Resurfacing/Passing lanes	2006	9.8
4	15	new	Smiths Falls to Lanark Rd. 10	Reconstruction/Passing lanes	2007	14.1
5	28	underway	Trent Canal and Burleigh Bridges, north of Peterborough	Bridge rehabilitations	2007	n/a
6	28	underway	Young's Point Bridge, north of Peterborough	Bridge rehabilitation	2007	n/a
7	41	new	Peterson Rd., Northbrook	Intersection improvements	2006	1.0
8	60	underway	Douglas to Eganville	Resurfacing	2006	14.8
9	60	underway	Barry's Bay to Renfrew/Nipissing Boundary	Resurfacing/Truck climbing lanes	2006	9.0
10	60	new	Barry's Bay to Arbor Vitae Rd.	Resurfacing/Truck climbing lanes	2007	5.5
11	401	underway	Donovan Creek Bridge, east of Gananoque	Bridge rehabilitation	2006	n/a
12	401	underway	County Rd. 34 to Quebec-Ontario Boundary	Resurfacing/Bridge rehabilitation	2006	14.4
13	401	underway	County Rd. 41, Napanee	Intersection improvements	2006	n/a
14	401	underway	Salmon River Bridge, 4 km west of Hwy 49 (SHIP)	Bridge rehabilitation	2007	n/a
15	401	new	Northumberland Rd. 30 Underpass, Brighton	Bridge rehabilitation	2006	n/a
16	401	new	Hoople Creek and Hoasic Creek Bridges, Morrisburg	Bridge rehabilitation	2007	n/a
17	417	underway	Limoges Rd. to Casselman	Resurfacing/Bridge rehabilitations	2007	15.6

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



Provincial Highways Construction Program - Southwestern Ontario Rehabilitation 2006

0 20 40 80 120 160 km



Southwestern Ontario Rehabilitation 2006

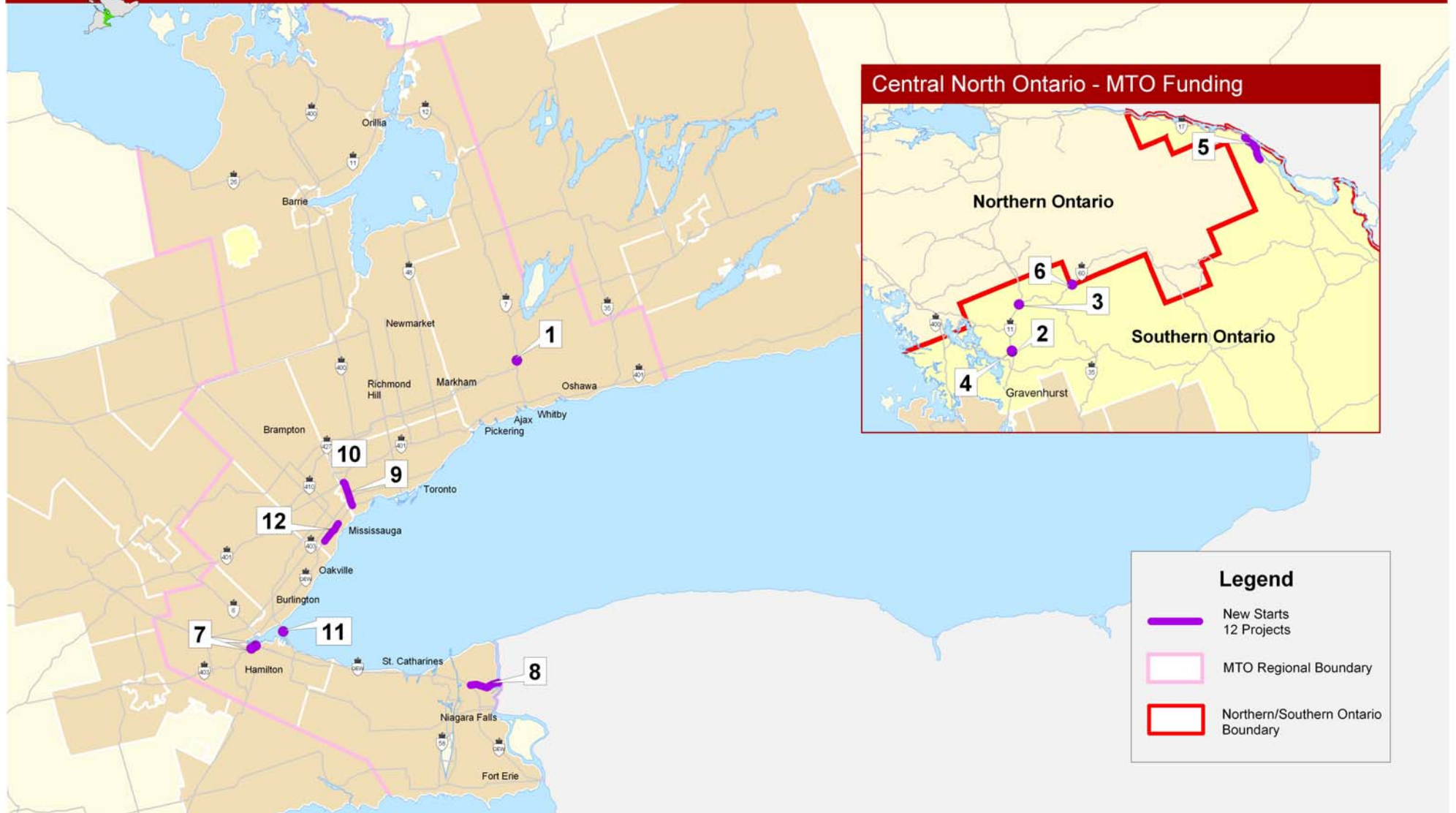
HWY MAP #	HWY	STATUS	LOCATION	DESCRIPTION	TARGET COMPLETION	PROJECT LENGTH (KM)
1	3	underway	St. Thomas to Aylmer	Reconstruction/Bridge rehabilitation	2006	14.8
2	6	new	Fergus to Arthur	Reconstruction/Bridge rehabilitations	2007	17.3
3	6	new	CPR Overhead Bridge, Puslinch	Bridge replacement	2006	n/a
4	6	new	Lynn River Lift Bridge, Port Dover	Bridge rehabilitation	2007	n/a
5	10	underway	Markdale to Chatsworth	Resurfacing/Bridge rehabilitation	2007	23.7
6	19	new	Mount Elgin to Hwy 401	Reconstruction/Commuter parking lot	2006	8.5
7	21	underway	Kingsbridge to Amberley	Culvert rehabilitations/Replacements	2006	11.8
8	23	new	Palmerston to Harriston	Reconstruction/Bridge rehabilitation	2007	9.1
9	24	new	South Jct. of Brant Rd. 4 to west Jct. of Brant Rd. 53	Reconstruction	2006	13.4
10	26	underway	Owen Sound to Woodford	Reconstruction/Truck climbing lane	2006	13.8
11	401	new	Culloden Rd. Interchange, Ingersoll	Interchange improvement	2006	n/a
12	401	new	Dorchester Rd. to Highbury Ave., London	Resurfacing	2006	10.0
13	401	new	Mull Rd. & Highgate Sideroad Underpasses, Ridgetown	Bridge rehabilitations	2006	n/a
14	402	new	Lambton Rd. 22 , Arkona Rd., First School Rd., Hwy 21, Uttoxeter Rd. & County Rd. 79 Bridges	Bridge rehabilitations	2006	n/a
15	402	new	Lambton Rd. 26 to East of Lambton Rd. 30 (BIF), east of Sarnia	Reconstruction/Bridge rehabilitations/Commercial Vehicle Inspection Facility	2009	9.7
16	403	new	Garden Avenue (Partnership with Brantford)	Interchange improvement	2006	n/a
17	403	new	County Rd. 18 (former Hwy 403) from Henry St. to Cainsville, Brantford	Work by County - Resurfacing/Bridge rehabilitation	2006	2.0

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



Provincial Highways Construction Program - Central Ontario Rehabilitation 2007

0 12.5 25 50 km



Central Ontario Rehabilitation 2007

HWY MAP #	HWY	STATUS	LOCATION	DESCRIPTION	TARGET COMPLETION	PROJECT LENGTH (KM)
1	7	new	Columbus Rd., Brooklin	Intersection improvements	2007	n/a
2	11	new	Hwy 11 & Muskoka Rd. 117, Bracebridge	Culvert replacement/Culvert rehabilitations	2007	n/a
3	11	new	Vernon Lake Narrows, northbound lane, Huntsville	Bridge widening	2008	n/a
4	11	new	North Muskoka River Bridge, south of Bracebridge	Bridge rehabilitation	2007	n/a
5	17	new	Chalk River westerly, north of Petawawa	Reconstruction	2007	16.3
6	60	new	Long Lake Creek, east of Huntsville	Culvert rehabilitation	2007	na
7	403	new	King St./Main St./York Blvd./Aberdeen Ave., Hamilton	Bridge rehabilitations	2008	n/a
8	405	new	Queenston Lewiston Bridge Toll Plaza to QEW	Resurfacing	2007	8.6
9	427	new	QEW to Hwy 401, southbound express lanes, Toronto	Resurfacing/Bridge rehabilitation	2008	7.0
10	various	new	Various Highways within Central Region	Selective resurfacing	2007	n/a
11	QEW	new	Burlington Bay Skyway Bridge	Bridge rehabilitation	2008	n/a
12	QEW	new	Winston Churchill Blvd. to Mississauga Rd., Mississauga	Resurfacing/Median barrier replacements	2009	6.2

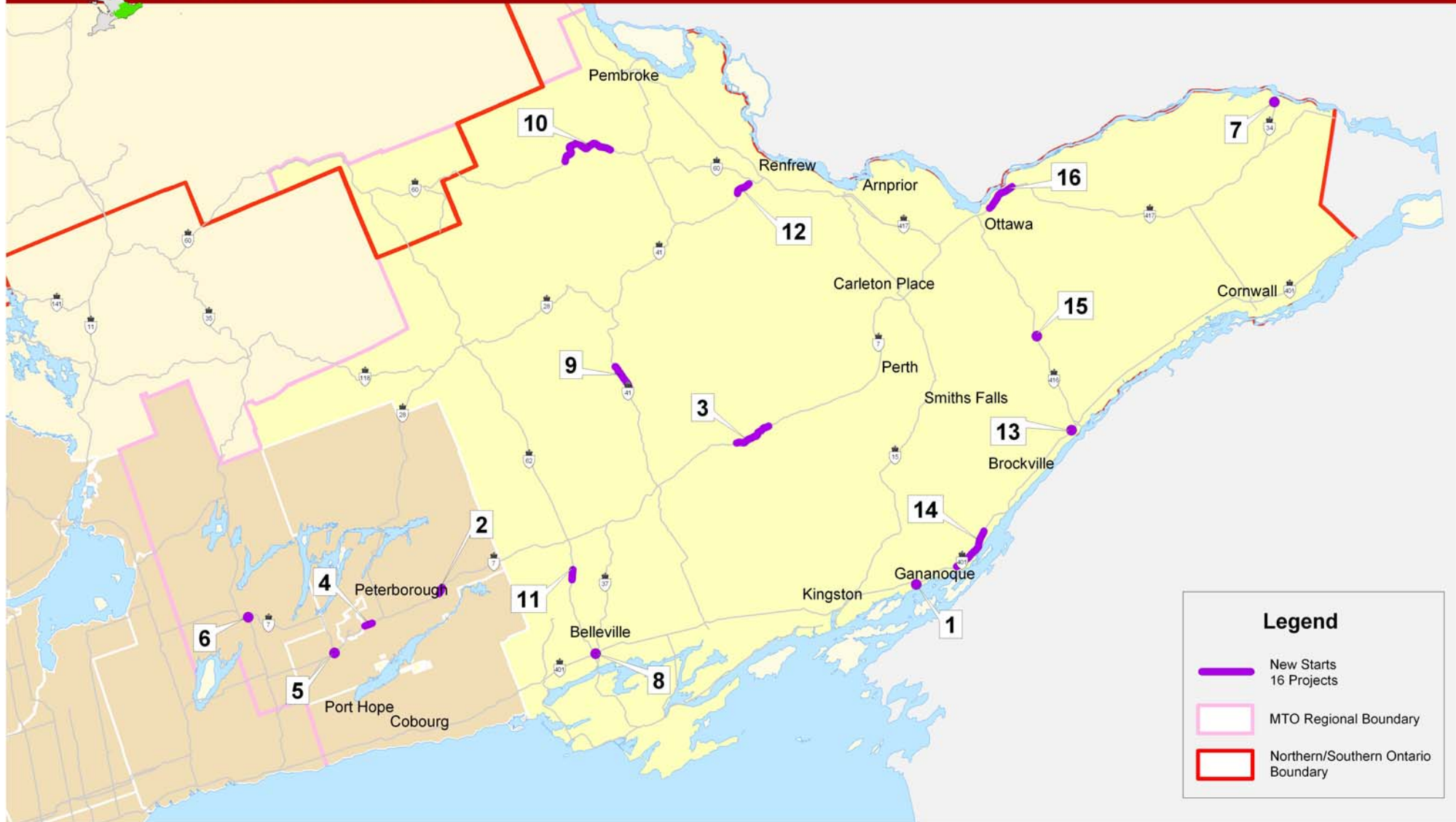
NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.



Provincial Highways Construction Program - Eastern Ontario

Rehabilitation 2007

0 15 30 60 90 120 km



Eastern Ontario Rehabilitation 2007

HWY MAP #	HWY	STATUS	LOCATION	DESCRIPTION	TARGET COMPLETION	PROJECT LENGTH (KM)
1	2	new	Thousand Islands Parkway Bridge, Gananoque	Bridge rehabilitation	2007	n/a
2	7	new	Norwood	Resurfacing	2007	2.1
3	7	new	Frontenac Rd. 38 to Lanark Rd. 36, west of Perth	Reconstruction/Passing lanes	2008	11.9
4	7	new	Peterborough to Drummond Line	Resurfacing/Intersection improvements	2008	2.4
5	7	new	Hwy 115 southbound exit ramp at 7A, west of Peterborough	Traffic signals	2007	1.0
6	7	new	Scugog River Bridge, east of Port Perry	Bridge rehabilitation	2008	n/a
7	34	new	Hawkesbury to Greenlane Rd.	Intersection improvements/Resurfacing	2008	0.2
8	37	new	Blessington Rd., Belleville	Intersection improvements	2007	0.6
9	41	new	Bon Echo Bridge to Massanoga Rd., Bon Echo	Resurfacing	2007	8.4
10	60	new	Golden Lake to Killaloe	Resurfacing	2007	20.0
11	62	new	Ivanhoe to Quin-Mo-Lac Rd.	Reconstruction/Passing lane	2008	3.2
12	132	new	Renfrew westerly	Resurfacing	2007	5.0
13	401	new	CPR Overhead at Prescott	Bridge removal	2008	n/a
14	401	new	Mallorytown to Hwy 137	Safety improvements	2007	14.3
15	416	new	Barnes Creek, south of Kemptville	Culvert rehabilitation	2007	n/a
16	417	new	Nicholas St. to Woodroffe Ave., Ottawa	Resurfacing	2007	9.8

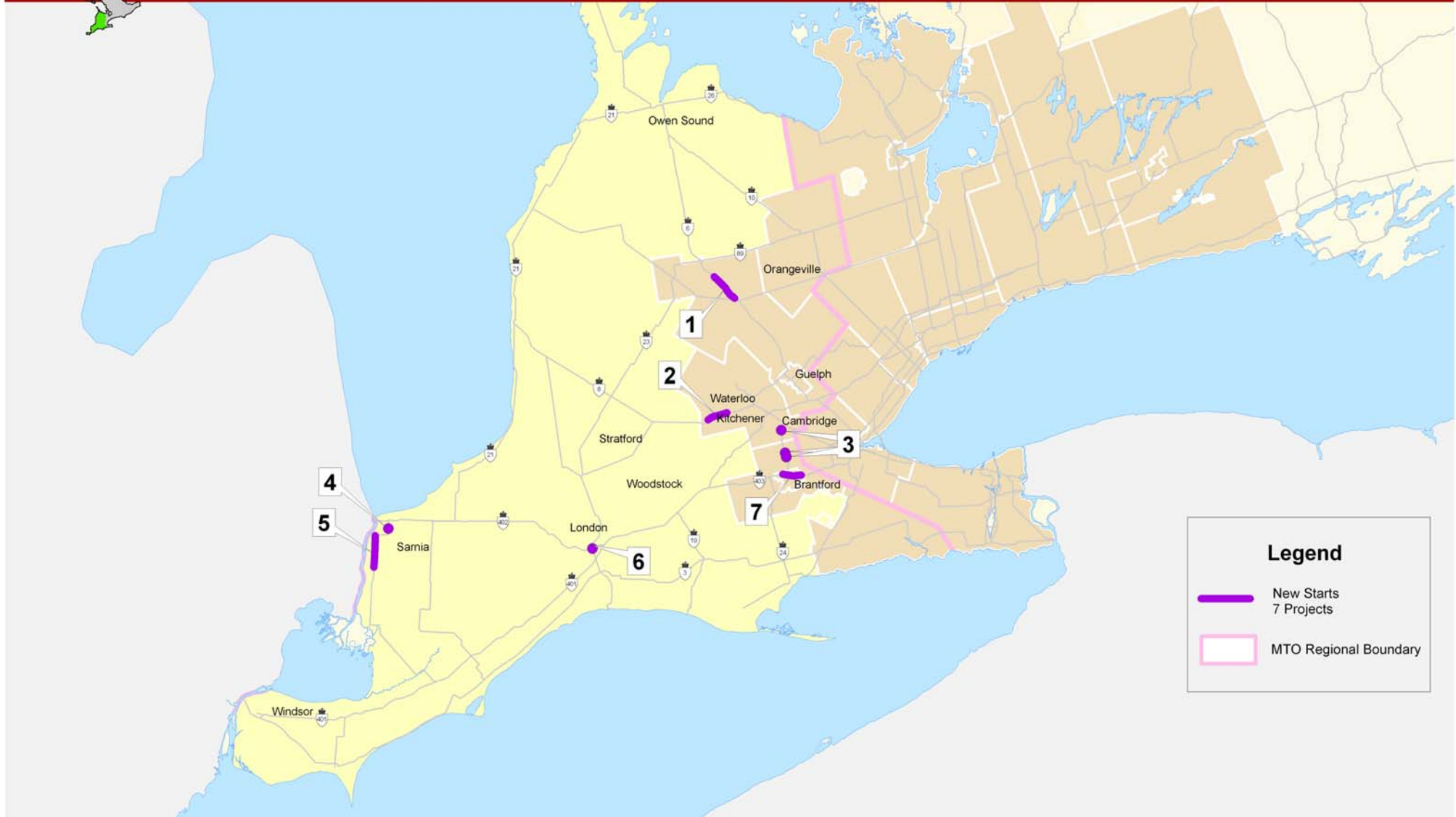
NOTE: Project timing is subject to change based on funding planning, design, environmental approval, property acquisition and construction requirements.



Provincial Highways Construction Program - Southwestern Ontario

Rehabilitation 2007

0 20 40 80 120 160 km



Southwestern Ontario Rehabilitation 2007

HWY MAP #	HWY	STATUS	LOCATION	DESCRIPTION	TARGET COMPLETION	PROJECT LENGTH (KM)
1	6	new	Arthur to Mount Forest	Reconstruction/Bridge rehabilitation/Bridge replacement/Passing lanes	2008	12.5
2	7/8	new	Waterloo Rd. 1 to Waterloo Rd. 5, New Hamburg	Resurfacing/Bridge rehabilitation/Intersection improvement	2007	8.6
3	24	new	South Jct. Glen Morris Rd./Foot Bridge Rd./Scenic Dr. & Blue Lake Rd., north of Brantford	Intersection improvements	2007	n/a
4	40	new	Confederation Line, Sarnia	Intersection improvements	2007	n/a
5	40	new	Lambton Rd. 80 to Rokeby Line, south of Sarnia	Reconstruction/Culvert rehabilitations/Intersection improvements	2007	13.1
6	402	new	Hwy 4 interchange, Lambeth	New lighting	2007	n/a
7	403	new	Garden Ave. to Brant County/Hamilton Boundary, Brantford	Resurfacing	2008	8.2

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

Central Ontario Rehabilitation 2008 to 2010

HWY	STATUS	LOCATION	DESCRIPTION	PROJECT LENGTH (KM)
7	new	West Duffins Creek, Markham	Bridge replacement	n/a
7	new	Thickson Rd./Durham Rd. 26, Brooklin	Traffic signals	n/a
7A	new	Carnegie St., Manchester	Traffic signals	2.7
8	new	Hwy 5/8 - Peters Corners, west of Hamilton	Intersection improvements	6.2
11	new	Muskoka Rd. 169 northerly, Gravenhurst	Resurfacing	6.3
11	new	Vernon Lake Narrows, Huntsville	Bridge replacement	n/a
12	new	Atherley (Simcoe Rd. 44) to Gamebridge	Resurfacing	23.6
12	new	Simcoe Rd. 37 to King St., Midland	Resurfacing	3.5
17	new	East of Mattawa easterly to Deux Rivières	Resurfacing	10.9
17	new	County Rd. 635 eastely, Rolphton	Reconstruction	18.6
17	new	East of Hwy 533 easterly, Bissett Creek	Reconstruction	12.5
26	new	Horsehoe Valley Rd./Simcoe Rd. 22, north of Midhurst	Traffic signals	n/a
26	new	Stayner to Simcoe Rd. 92	Resurfacing	4.7
35	new	North of Hwy 118 northerly, Carnarvon	Reconstruction	13.8
35	new	Hwy 60 to Hwy 117, Dorset	Resurfacing	17.9
48	new	Elgin Mills Rd., Markham	Traffic signals	n/a
58	new	Pine St., Thorold	Interchange improvements/Traffic signals	n/a

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

Central Ontario Rehabilitation 2008 to 2010 (continued)

HWY	STATUS	LOCATION	DESCRIPTION	PROJECT LENGTH (KM)
58/20	new	Hwy 20 to Thorold Stone Rd. & Hwy 58 to Niagara Rd. 70, Thorold	Resurfacing	4.2
60	new	Oxtongue River, east of Dwight	Bridge replacement	n/a
89	new	Nottawasaga River Bridge, Alliston	Bridge rehabilitation	n/a
93	new	County Road 19, Waverley	Traffic signals/Passing lanes	12.7
118	new	Hwy 11 easterly, north of Gravenhurst	Resurfacing	4.3
400	new	Duckworth St., Barrie	Interchange improvements/Traffic signals	n/a
401	new	Hogg's Hollow Bridge, Toronto	Bridge rehabilitation	n/a
401	new	James Snow Parkway - Milton	Interchange improvements/Traffic Signals	n/a
401	new	Jane St. to Kipling Ave., westbound collector lanes, Toronto	Reconstruction/Bridge rehabilitation	3.6
401	new	McLaughlin Rd. to Winston Churchill Blvd., Mississauga	Resurfacing	9.0
401	new	Kennedy Rd. to Pickering, Toronto/Pickering	Overhead signs	n/a
401	new	Sixth Line Rd. & Tremaine Rd., Milton	Bridge replacements	n/a
401	new	Halton Rd. 25 to Halton/Wellington Boundary	Resurfacing	12.0
401	new	Guelph Line, Milton	Interchange improvements/Traffic signals/Commuter parking lot	n/a
401	new	Simcoe St./Bloor St., Oshawa	Interchange improvements/Traffic signals	n/a

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

Central Ontario Rehabilitation 2008 to 2010 (continued)

HWY	STATUS	LOCATION	DESCRIPTION	PROJECT LENGTH (KM)
403	new	Winston Churchill Blvd., Mississauga	Interchange improvements/Commuter parking lot	n/a
403	new	Erin Mills Parkway, Mississauga	Commuter parking lot	n/a
406	new	Westchester Ave., St. Catharines	Interchange improvements/Traffic signals	n/a
409	new	Hwy 401 to Hwy 427, Toronto	Resurfacing/Bridge rehabilitation	4.5
427	new	QEW to Hwy 401, northbound express lanes, Toronto	Resurfacing/Bridge rehabilitation	7.7
427	new	QEW to Hwy 401, southbound collector lanes, Toronto	Resurfacing/Bridge rehabilitation	7.3
427	new	QEW to Hwy 401, northbound collector lanes, Toronto	Resurfacing/Bridge rehabilitation	7.3
QEW	new	Garden City Skyway Bridge, St. Catharines	Pier repairs	n/a
QEW	new	Mississauga Rd., Mississauga	Interchange improvements/Traffic signals	n/a
QEW	new	Cawthra Rd., Mississauga	Interchange improvements	n/a
QEW	new	McLeod Rd., Niagara Falls	Interchange improvements/Traffic signals	n/a
QEW	new	Bowen Rd., Fort Erie	Bridge replacement	n/a
various	new	Various Highways in Central Region	Selective resurfacing	n/a

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

Eastern Ontario Rehabilitation 2008 to 2010

HWY	STATUS	LOCATION	DESCRIPTION	PROJECT LENGTH (KM)
7	new	Scott Rd. to Hwy 41, Kaladar	Resurfacing/Passing lane	15.2
7	new	Perth - east to west limits	Reconstruction	1.2
7	new	Havelock to Norwood	Reconstruction/Passing lanes	7.7
7	new	Lennox & Addington/Hastings County Line to Hwy 37	Resurfacing/Passing lane	8.7
7	new	CPR Overhead, Carleton Place	Bridge rehabilitation	n/a
7	new	Marmora to Havelock	Resurfacing	16.0
7A	new	Hwy 7/115 Interchange, Peterborough	Interchange improvement	n/a
7A	new	Cavanville Creek Bridge, Cavan	Bridge rehabilitation	n/a
15	new	Lyndhurst Rd. to Forfar Rd., Crosby	Resurfacing/Passing lane/Bridge rehabilitation	27.9
15	new	Hamlet of Portland	Reconstruction	3.0
17	new	Constable Philip Shrive & CPR Overheads, Renfrew	Bridge rehabilitation	n/a
17	new	Petawawa River Bridge	Bridge rehabilitation	n/a
28	new	Stoney Lake Rd. to Young's Point	Resurfacing	3.2
28	new	Young's Point Rd. to Burleigh Falls	Resurfacing	10.6
33	new	Speers Ave., Amherstview	Intersection improvement	n/a

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

Eastern Ontario Rehabilitation 2008 to 2010 (continued)

HWY	STATUS	LOCATION	DESCRIPTION	PROJECT LENGTH (KM)
33	new	Prince Edward Rd. 1, west of Picton	Intersection improvement	n/a
34	new	Vankleek Hill to Green Lane	Reconstruction	9.0
35	new	Victoria County Rd. 121, Long Beach	Traffic signals	n/a
37	new	CNR Overhead, Belleville	Bridge rehabilitation	n/a
37	new	Tweed to Hwy 7	Resurfacing	7.8
37	new	Moir River Bridge, Belleville	Bridge rehabilitation	n/a
41	new	Cloyne to Bon Echo Bridge	Reconstruction	9.1
41	new	North of Denbigh to Griffith	Resurfacing	9.1
60	new	Bonnechere River Bridge, Deacon	Bridge rehabilitation	n/a
62	new	Hickey Settlement Rd. to Maynooth	Reconstruction	8.0
62	new	Ashley St. to County Rd. 14, Foxboro	Reconstruction/Bridge rehabilitation	3.4
62	new	Quin-Mo-Lac Rd. to Madoc	Reconstruction/Bridge rehabilitation	4.7
62	new	Hastings Rd. 620 southerly, Ormsby	Reconstruction/Bridge replacement	17.4

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

Eastern Ontario Rehabilitation 2008 to 2010 (continued)

HWY	STATUS	LOCATION	DESCRIPTION	PROJECT LENGTH (KM)
115	new	Peterborough Rd. 28 Overpass, northbound lanes, Springville	Bridge rehabilitation	n/a
121	new	West Jct. Haliburton Rd. 648 to east Jct. 648, west of Bancroft	Reconstruction	11.5
127	new	Papineau Creek Bridge, Maynooth	Bridge rehabilitation	n/a
401	new	Northumberland Rd. 30, Brighton	Interchange improvement	n/a
401	new	Lennox & Addington Rd. 4 Underpass, Kingston	Bridge rehabilitation	n/a
401	new	CNR Overhead & Boundary Rd. Underpasses, Cornwall	Bridge rehabilitation	n/a
401	new	Gananoque River Bridge	Bridge painting	n/a
401	new	Trent River Bridge & Hwy 33 Overpass, Trenton	Bridge rehabilitation	n/a
401	new	Upper Canada Rd. to Carman Rd., Morrisburg	Reconstruction	20.5
401	new	Moulinette Rd. & Carman Rd. Underpasses, west of Cornwall	Bridge rehabilitation/Replacement	n/a
416	new	Hunt Club Road to Highway 417, Ottawa	Resurfacing	2.9
417	new	Loretta St. to Parkdale Ave., Ottawa	Noise barrier replacement	1.5
417	new	Ottawa Carleton Rd. 8 to Ottawa Carleton Rd. 26, Ottawa	Resurfacing / Bridge rehabilitation	18.0

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

Southwestern Ontario Rehabilitation 2008 to 2010

HWY	STATUS	LOCATION	DESCRIPTION	PROJECT LENGTH (KM)
3	new	John Pound Rd. to Simcoe St., Tillsonburg	Reconstruction/Bridge rehabilitation	3.7
3	new	Big Creek & Boston Creek Bridges, Delhi	Bridge rehabilitations	n/a
3	new	Renton to Jarvis	Resurfacing	9.0
3	new	Grand River Bridge, Cayuga	Bridge rehabilitation or Replacement	n/a
3	new	Aylmer to Carter Rd.	Resurfacing	7.2
6	new	Grey Rd. 9 to Durham	Resurfacing/ Passing lane	10.5
6	new	Stone Rd., College Ave., Kortright Rd., Guelph	Intersection improvements	3.2
6	new	Grand River Bridge, Caledonia	Bridge Rehabilitation or Replacement	n/a
7	new	Middlesex Rd. 50 to Perth Rd. 9, St. Marys	Resurfacing/Intersection improvements	17.0
7	new	Fischer-Hallman Rd. to Homer Watson Blvd., Kitchener	Resurfacing/Bridge rehabilitation/Median barrier/Noise barrier	1.9
7	new	Guelph to Wellington Rd. 28	Resurfacing/Bridge rehabilitation/Intersection improvement	7.4
8	new	Perth Rd. 135 to Stratford	Resurfacing/Bridge rehabilitation	7.9
8	new	Goderich to Clinton	Reconstruction	16.8
21	new	Lambton Rd. 79 to Grand Bend	Reconstruction	14.2
21	new	Huron Rd. 84 to Bayfield	Resurfacing	16.0
21	new	Shashawanda Creek Bridge, north of Forest	Bridge replacement	n/a
21	new	Hwy 9 to Tiverton	Reconstruction/Traffic signals	12.3

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

Southwestern Ontario Rehabilitation 2008 to 2010 (continued)

HWY	STATUS	LOCATION	DESCRIPTION	PROJECT LENGTH (KM)
21	new	Beaver Creek, South Pine, Central Pine & Royal Oak River Bridges, south of Kincardine	Bridge rehabilitations	n/a
21	new	Goderich to Sheppardton	Reconstruction	9.0
24	new	Brant Rd. 53 to Hwy 403, west of Brantford	Resurfacing/Bridge rehabilitaions	4.8
26	new	Woodford to Meaford	Resurfacing/Truck climbing lane	9.7
26	new	Thornbury to Meaford	Resurfacing/Passing lane	9.8
40	new	La Salle Line to Churchill Rd., Sarnia	Resurfacing	2.8
40	new	Big Creek # 1,2,3,4,5, - Bear Creek. - Maxwell Creek and Concession #18 Bridges, North of Chatham	Bridge rehabilitations/Replacement	n/a
40	new	Hwy 401 to Longwoods Rd., Chatham	Reconstruction/Bridge rehabilitation	7.4
77	new	Leamington to Staples	Reconstruction	12.3
85	new	Lancaster St. to Waterloo Rd. 15, Kitchener	Resurfacing/Bridge rehabilitation	7.6
401	new	Hwy 6, Wellington Rd. 35 & 32 Underpasses, Cambridge	Bridge rehabilitations	n/a
401	new	Dunborough Rd., Blacks Rd. & Furnival Rd. Underpasses, south of London	Bridge rehabilitations	n/a
401	new	Putnam North Commercial Vehicle Inspection Facility, London	Reconstruction	n/a
401	new	County Rd. 2 Underpass, east of Tilbury	Bridge rehabilitation	n/a
402	new	County Rd. 22 & 79 Underpasses, east of Sarnia	Bridge rehabilitations	n/a
403	new	Oak Park Interchange & Bridge (Partnership with Brantford)	Interchange improvement/Bridge rehabilitation	n/a

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

Part IV: Planning for the Future



Highway 401 - Kingston



Highway 401 - Toronto

Future Highway Expansion

The five-year Southern Ontario Highways Program outlines the projects that are a priority to the Province. These projects will ensure that we continue to support growth by expanding and enhancing safety and efficiency on our highways.

The government is very 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:

- Optimizing, expanding or extending existing highways
- Developing new highway corridors
- Identifying and implementing transportation solutions on strategic transportation corridors.

Identified below and on the map “Planning for the Future” 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 plan, they are subject to further study and prioritization, and may be brought forward.

- Highway 5/Highway 6 Interchange, Hamilton
- Highway 6 - Morriston to Guelph
- Highway 6 - Hanlon Expressway, Guelph
- Highway 7 - Kitchener to Guelph
- Highway 7 – Scott’s Corners to Fowlers Corners, Peterborough
- Highway 10 – Caledon to Orangeville
- Highway 11 – Gravenhurst to Huntsville, Interchanges

- Highway 12 – South Junction Highway 48 to North Junction County Road 48, Beaverton
- Highway 17 – Arnprior to Renfrew
- Highway 24 Route Planning Study – Cambridge to Brantford
- Highway 26 New – Wasaga to Collingwood, Phase 2
- Highway 35 – Highway 115 to Lindsay
- Highway 40 - Highway 402 southerly, Sarnia
- Highway 400 – Toronto to Barrie
- Highway 401/Highway 400 Interchange, Toronto
- Highway 401 – Highway 402 to Highway 4, London
- Highway 401 – Highway 4 to Tilbury
- Highway 401 – Highway 24 to Highway 8, Cambridge
- Highway 401 – Highway 15 to County Road 38, Kingston
- Highway 401 – Burnham Street to County Road 45, Cobourg
- Highway 406 – Welland to Port Colborne
- Highway 407 East Completion
- Highway 417/OQW – Highway 416 to Anderson Road
- Highway 427 Transportation Corridor in Vaughan
- QEW – Highway 420 to Mountain Road, Niagara Falls
- GTA-West Transportation Corridor
- Niagara-GTA Transportation Corridor
- Ottawa Bypass Transportation Corridor Study



Highway Planning Process

Moving highway improvement projects from concept to reality is a time consuming and resource intensive process. Thorough environmental assessments and detailed design to address provincial and federal requirements is critical to ensure the timely approval of projects at all stages. The planning and construction process for highway expansion can take up to eight years. New transportation corridors take 10 years or even longer to implement. The diagram “Highway Planning Process” illustrates the stages and timeframes associated with major highway construction projects. While this process is lengthy, it is necessary to:

- reduce the impact of highway construction on Ontario’s environment,
- protect the rights of property owners, and
- ensure provincial highways meet all design and construction standards.

In the first phase, an environmental assessment (EA) is done to consider the natural, economic and social impacts. Highway projects that are relatively small and have predictable and manageable environmental effects, are subject to a **Class EA process** which typically takes at least three years to complete and accounts for approximately 95 per cent of the ministry’s infrastructure projects.

The remainder are larger projects with greater environmental impacts, such as new transportation corridors. These are subject to an **Individual EA process** involving extensive analysis of all transportation alternatives and new highway or transitway route location alternatives. This process can take five years to complete and approve.

Planning and preliminary design studies are the first stages in the Class EA process and generally take two to

three years to complete. This involves the environmental assessment of broad transportation alternatives and specific highway improvement options.

The next stage is **detail design**, which involves engineering work such as surveying, testing for soil conditions, determining construction material requirements and the design of bridges, interchanges and culverts. Once sufficient design has occurred, property acquisition can begin. Design and property acquisition are done simultaneously and can take up to three years.

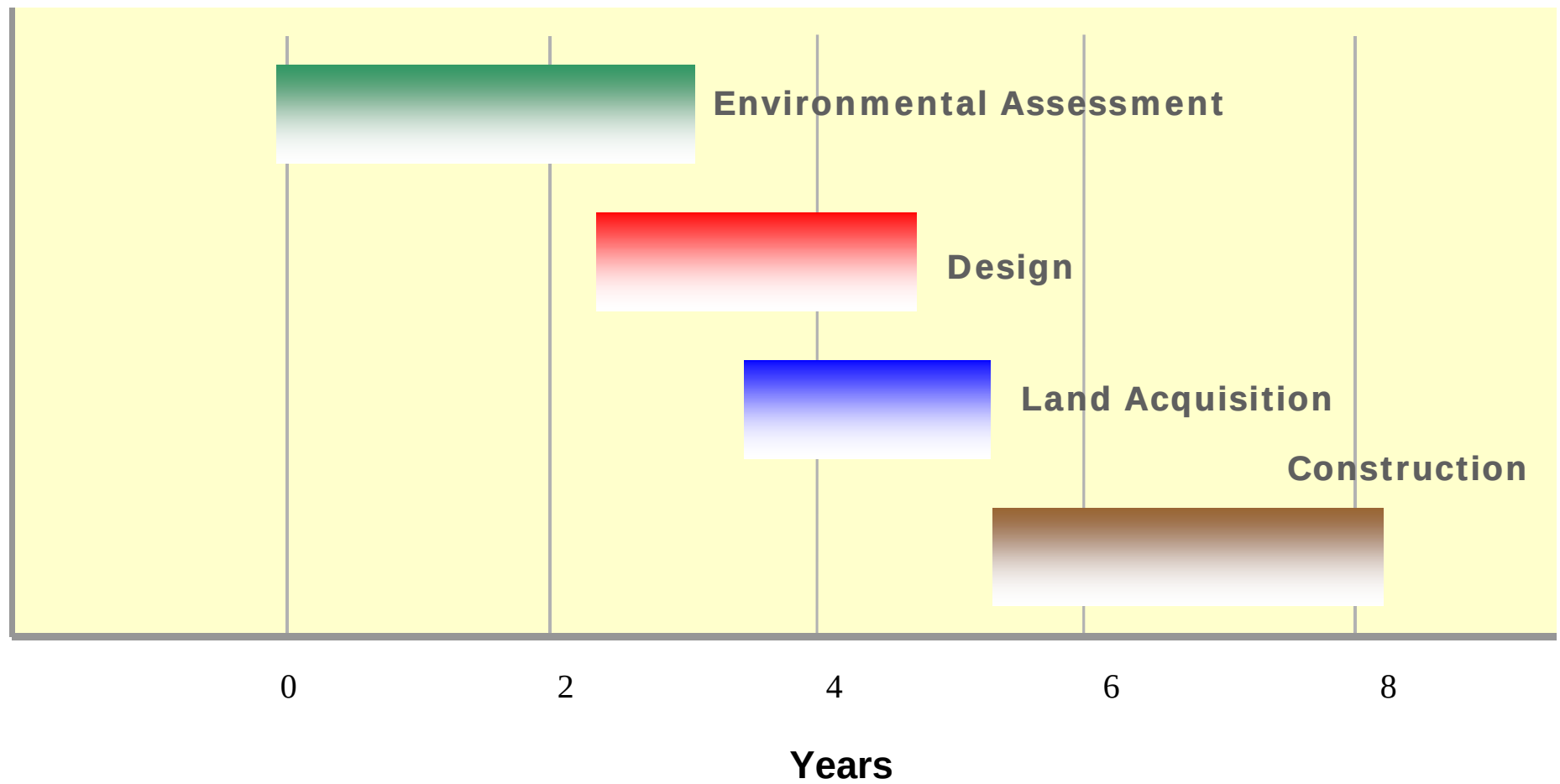
Property acquisition can take up to 18 months if expropriation is necessary and if property owners request a Hearing of Necessity. The purpose of a hearing is to determine whether MTO has sound justification to expropriate the property. The project may take longer if extensive property acquisition or highway re-design is required.

Highway construction depends on the size of the project, property availability and the timing of various environmental clearances or permits. Building four-lane highways is generally completed in segments, taking two to three years for each 10-kilometre section. Completing some highway sections may be delayed because of legislated restrictions on construction during fish spawning periods, nesting periods for birds or other reasons. Much of the construction work is done at night and during off-peak hours to minimize delays.

The Ministry of Transportation works collaboratively with a wide range of provincial ministry and federal departments, transportation, economic and environmental interest groups, First Nation communities and the general public at all phases in the highway planning process.

Highway Planning Process (continued)

Typical Timelines for Highway Expansion Projects



Appendices

Appendix 1:

Completed Expansion Projects – Central Ontario

HWY	LOCATION	DESCRIPTION
6 New	Hwy 403 southerly to Hwy 6 (Hamilton Airport)	Landscaping
69/400	Muskoka Rd. 32/38 (Wahta First Nation)	New interchange
401	Salem Rd. Interchange, Ajax/Whitby	New interchange
403	Hwy 401 to Hwy 407, Mississauga (HOV lanes)	Widening
404	Hwy 401 to Van Horne Dr., southbound lanes, Toronto (HOV lanes)	Widening
404	Van Horne Dr. to Beaver Creek, southbound lanes, Toronto (HOV lanes)	Widening
QEW	Third Line Interchange, Oakville	Interchange replacement
QEW	Guelph Line Interchange, Burlington	Interchange replacement
QEW	Red Hill Valley Parkway Interchange - Connection to QEW - Phase 1 of 3, Hamilton	Utility relocations

Completed Expansion Projects – Eastern & Southwestern Ontario

HWY	LOCATION	DESCRIPTION
401	Hwy 15 to County Rd. 38 - Sydenham Rd. easterly - Phase 1 of 5, Kingston (SHIP)	4 to 6 lane widening
401	County Rd. 2 to County Rd. 28, Port Hope	4 to 6 lane widening

HWY	LOCATION	DESCRIPTION
401	Windsor to Tilbury - Phase 1 of 5 - west of Hwy 77 easterly to east of Essex Rd. 42 (SHIP)	4 to 6 lane widening
401	Townline Rd., Cambridge	Interchange replacement

Completed Rehabilitation Projects – Central Ontario

HWY	LOCATION	DESCRIPTION
6	Plains Rd. Extension to York Rd., Burlington	Reconstruction
6N	Glancaster Rd., Hamilton	Bridge improvements
7	Hwy 7A to Brooklin	Resurfacing
7A	Regional Rd. 57 to east of Water St., Port Perry	Resurfacing/Intersection improvements
17	CPR overhead to Deux-Rivières	Resurfacing
26	Barrie north limits to north of Simcoe Rd. 26	Resurfacing
35	Durham Rd. 17 to Hwy 35/115 Split, Orono	Resurfacing
35	North Jct. Haliburton Rd. 121 to south of Hwy 118, Carnarvon	Reconstruction
35	Peterborough Rd. 121 northerly, Minden	Reconstruction
58	Thorold tunnel	Tunnel rehabilitation

Completed Rehabilitation Projects – Central Ontario (continued)

HWY	LOCATION	DESCRIPTION
401	Leslie St. to Allen Rd., westbound collector lanes, Toronto	Reconstruction
401	Hwy 427 to Renforth Dr., Toronto	Reconstruction
401	Hwy 400 to Bathurst St., Toronto	Replace 6 sign supports
401	Hwy 401/400 Ramps - various locations, Toronto	Selective resurfacing
401	Second Line Underpass, Mississauga	Bridge rehabilitation
401	Stevenson Rd. to Lakeridge Rd., Oshawa/Whitby	Resurfacing
400	Hwy 88 to Hwy 89, Simcoe County	Guide rail improvements
410	Hwy 401 to Bovaird Dr., Mississauga/Brampton	Lighting improvements
427	QEW to Hwy 401, southbound express lanes, Toronto	Median barriers/Lighting improvements
QEW	Fruitland Rd., Hamilton	Traffic signals
QEW	Thompson Rd., Fort Erie	Noise barrier
QEW	Plains Rd., Burlington	Noise barrier
QEW	Garden City Skyway Bridge, St. Catharines	Bridge rehabilitation

Completed Rehabilitation Projects – Eastern Ontario

HWY	LOCATION	DESCRIPTION
7	Fowlers Corners to Omemee	Resurfacing
41	Madawaska River Bridge, Griffith	Bridge rehabilitation
41	Bon Echo Park & York River Bridges	Bridge rehabilitations
118	Hwy 648 to Hwy 28, Cardiff	Resurfacing
401	Hwy 16 to Edward St., Prescott	Median barriers
401	John F. Scott & Joyceville Rd. Underpasses, Kingston	Bridge rehabilitations
401	Eastbound Ramp of Interchange 474, Cobourg	Traffic signals
417	Dunvegan Rd. to Prescott/Russell Rd. 17, westbound lanes, east of Casselman	Reconstruction

Completed Rehabilitation Projects – Southwestern Ontario

HWY	LOCATION	DESCRIPTION
3	Outer Blvd. & Walker Rd., Windsor	Intersection improvements
6	Fairbanks Creek (Mount Forest) & Styx River (Chatsworth) Bridges	Bridge rehabilitations
8	Perth Rd. 130, south of Sebringville	Traffic signals
8	Conestoga Parkway Interchange, Kitchener	Interchange improvement
21	Forest to Northville	Resurfacing
21	Maitland & Straughn Bridges, Goderich	Resurfacing/Bridge rehabilitations
21	Jackson Slope, Owen Sound	Operational improvement
401	Scane Rd. & Downie Line Underpasses, west of London	Bridge rehabilitations
401	Oxford Rd. 59 to Oxford Rd. 2, Woodstock	Resurfacing
401	Dorchester Rd. to Putnam Rd. & Hwy 19 to County Rd. 6, London - Woodstock	Resurfacing
402	Sarnia	Queue end warning signs
402	Lambton Rd. 30 to 2.5 km east of Hwy 21, east of Sarnia	Reconstruction

Appendix 2

