



memorandum

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COMMUNICATION
CW - JUNE 5/18
ITEM - 5.16

DATE: June 1, 2018
TO: Mayor and Members of Council
FROM: Stephen Collins, Deputy City Manager, Public Works
RE: **COMMUNICATION: COMMITTEE OF THE WHOLE JUNE 5, 2018**
ITEM 5.16
YORK REGION TRANSPORTATION PLANNING & TRANSPORTATION
CAPITAL INFRASTRUCTURE STATUS UPDATE

Please find attached a supporting document entitled "Transportation Planning & Capital Infrastructure Update June 5, 2016". The information provided is in lieu of a formal presentation from York Region staff.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'S. Collins', written over a faint, larger signature.

Stephen Collins, P.Eng.
Deputy City Manager, Public Works

RECEIVED
JUN - 4 2018
CCO



TRANSPORTATION PLANNING AND CAPITAL INFRASTRUCTURE STATUS UPDATE

PREPARED FOR THE CITY OF VAUGHAN

Transportation Services
June 5, 2018



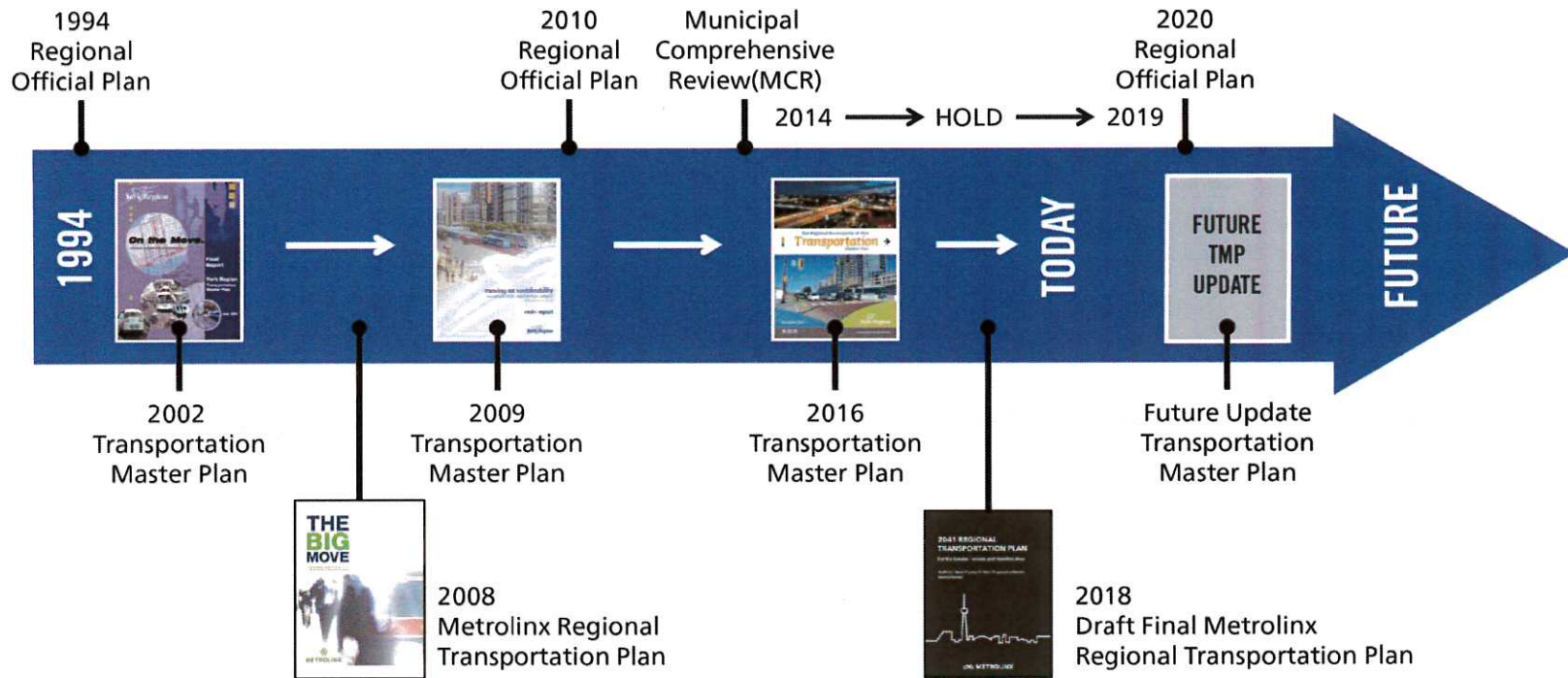
York Region

OUTLINE

1. York Region's 2016 Transportation Master Plan (TMP)
2. Existing and Proposed TMP Transportation Network
3. Transportation Capital Prioritization and Programming
4. 2018 Transportation Capital Construction Program

2016 TRANSPORTATION MASTER PLAN (TMP)

YORK REGION'S TMP IS UPDATED PERIODICALLY

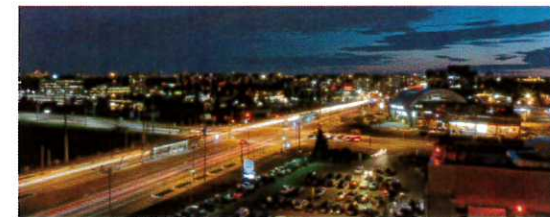


Regional Transportation Master Plan evolves to keep pace with Regional growth and objectives and coordinate with broader GTHA Transportation Planning

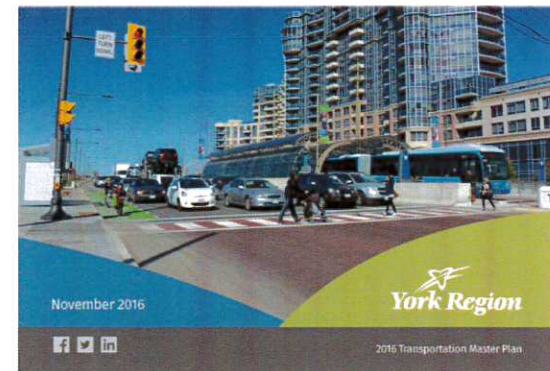
YORK REGION'S 25-YEAR OUTLOOK FOR INVESTMENT IN TRANSPORTATION INFRASTRUCTURE

2016 TMP has two main components that include:

- Five Strategic Objectives
- Infrastructure Vision



The Regional Municipality of York
Transportation Master Plan →



The TMP builds on the foundation of the 2002 and 2009 Master Plans to develop strategic objectives which align with the Region's Vision 2051

THE FIVE STRATEGIC OBJECTIVES OF THE 2016 TMP POSITION THE REGION FOR THE FUTURE

**1. Creating a World Class
Transit System**



**3. Integrate Active
Transportation in
Urban Areas**



**5. Make the Last
Mile Work**



**2. Develop a Road Network
Fit for the Future**



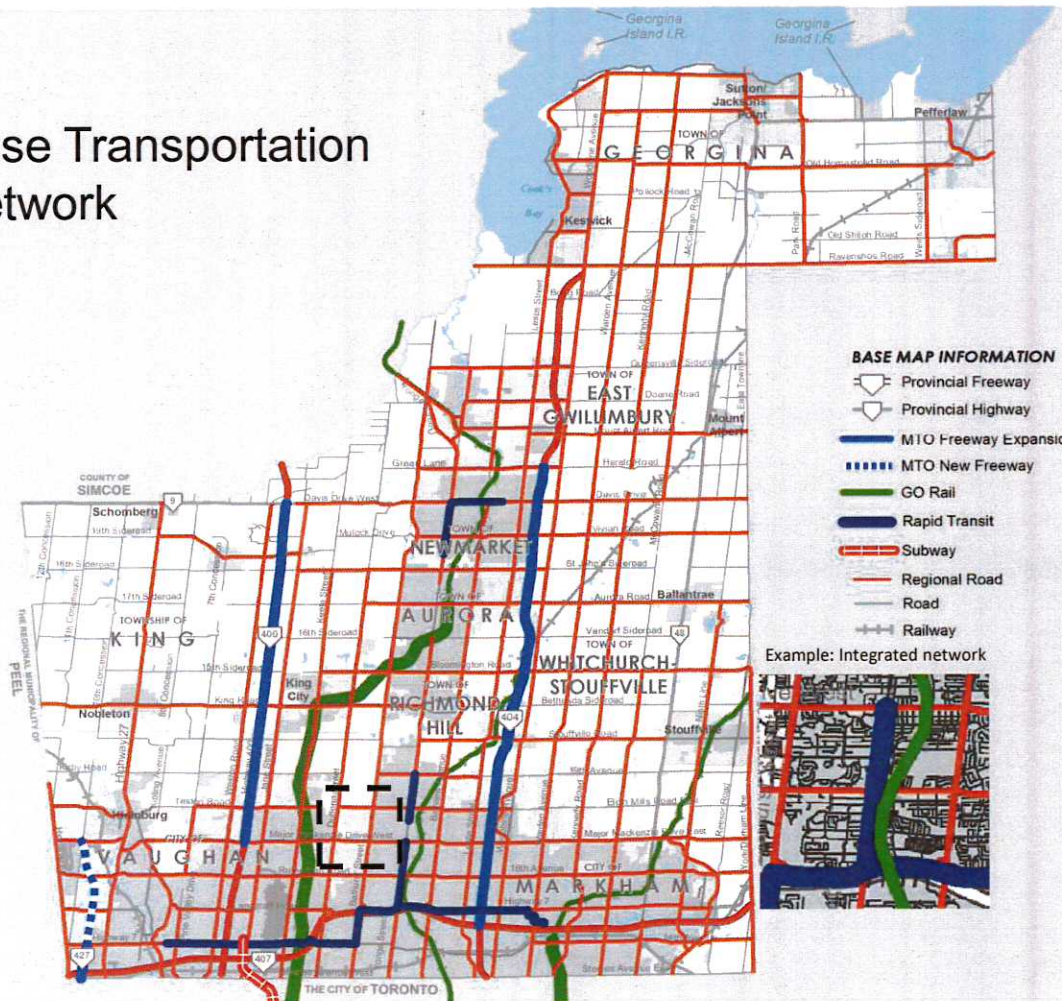
**4: Maximize the Potential
of Employment Areas**



The 2016 TMP objectives support an interconnected multi-modal network

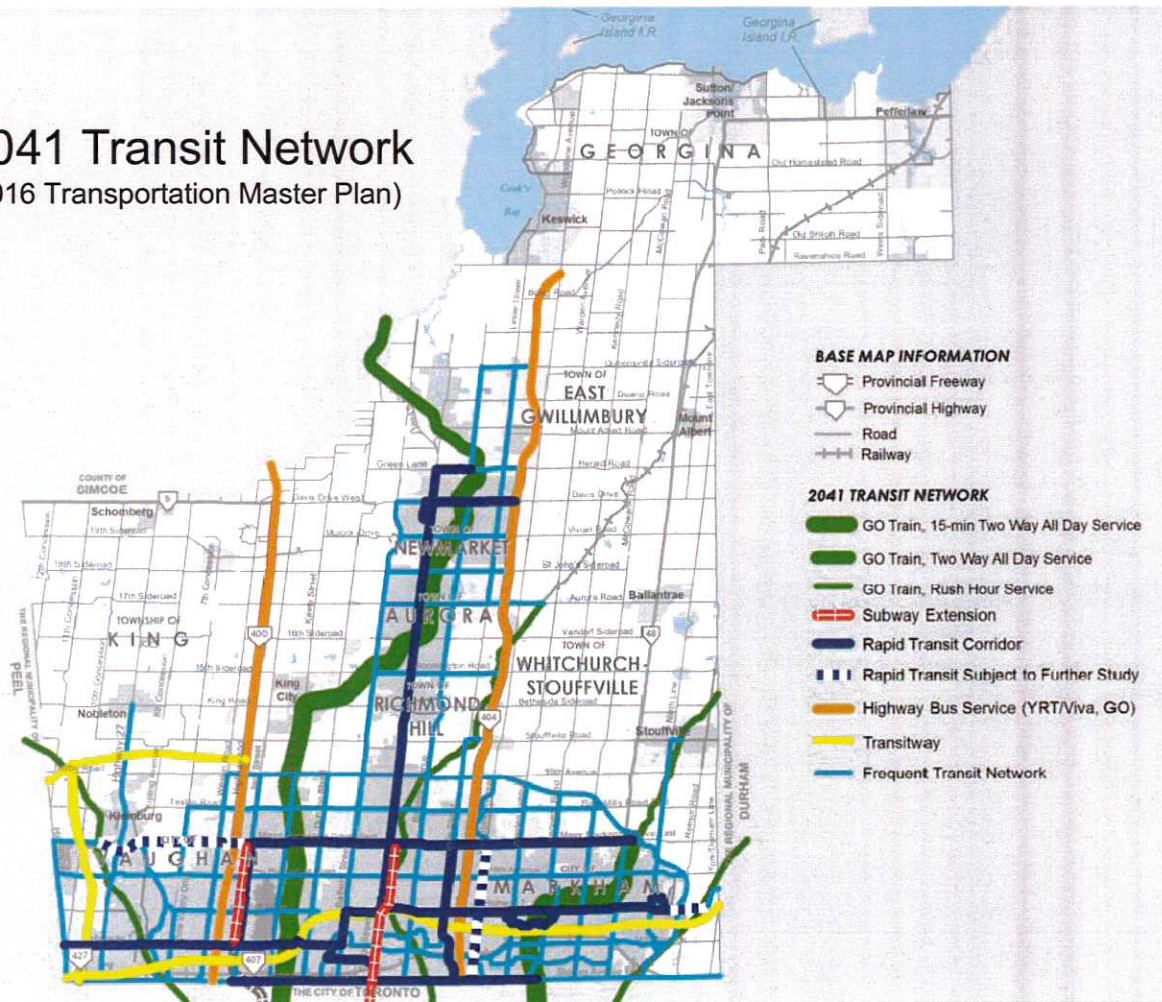
THE REGION BENEFITS FROM A STRONG REGIONAL AND PROVINCIAL TRANSPORTATION NETWORK

Base Transportation Network



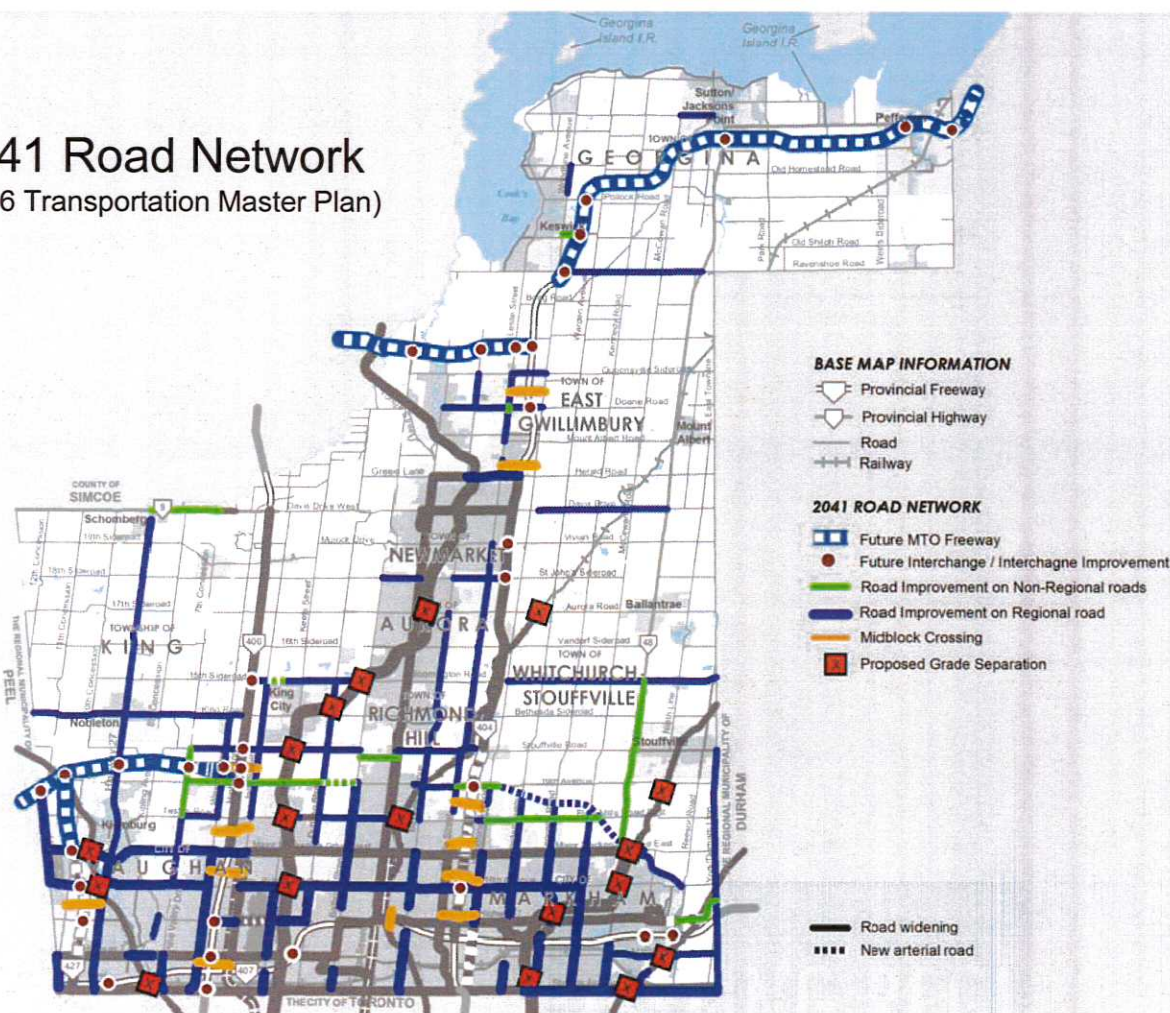
THE 2016 TMP BUILDS ON EXISTING REGIONAL AND PROVINCIAL INVESTMENTS IN TRANSIT

2041 Transit Network
(2016 Transportation Master Plan)



THE 2016 TMP BUILDS ON EXISTING REGIONAL AND PROVINCIAL INVESTMENTS IN ROADS

2041 Road Network
(2016 Transportation Master Plan)

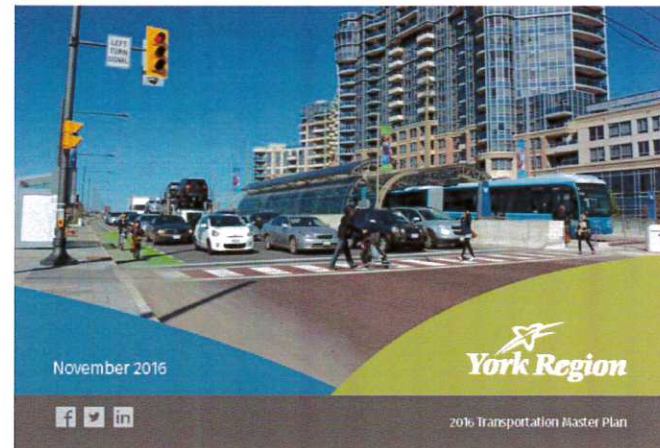


THE INFRASTRUCTURE VISION OF THE 2016 TMP IS FINANCIALLY UNCONSTRAINED

- Transportation Master Plans are typically aspirational long-term documents
- Technology continues to evolve
- Investment by others is always subject to change
- The TMP's affordability and deliverability is reviewed through the annual budgeting and programming process



The Regional Municipality of York
Transportation →
Master Plan



November 2016

York Region



2016 Transportation Master Plan

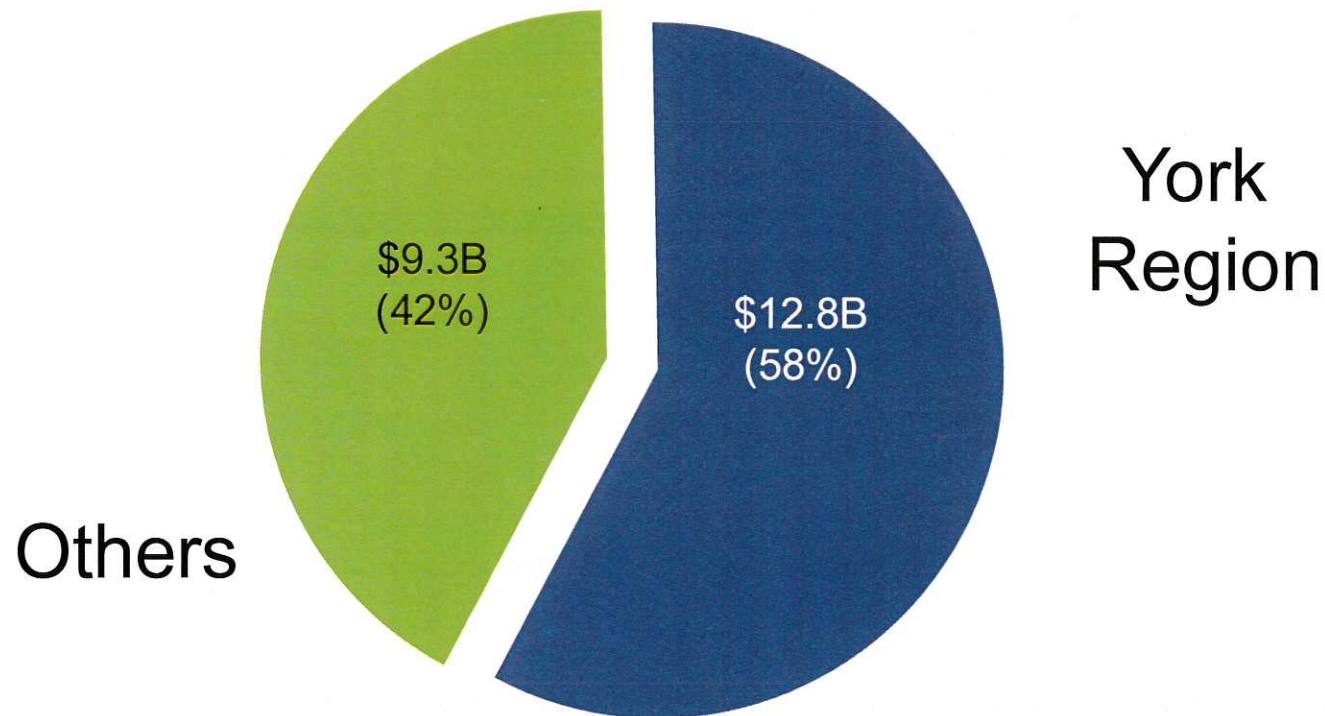
KEY MESSAGES

1. 2016 TMP has two main components:
 - Five Strategic Objectives
 - Infrastructure Vision
2. 2016 Transportation Master Plan includes a financially unconstrained infrastructure plan

FUNDING THE 2016 TRANSPORTATION MASTER PLAN

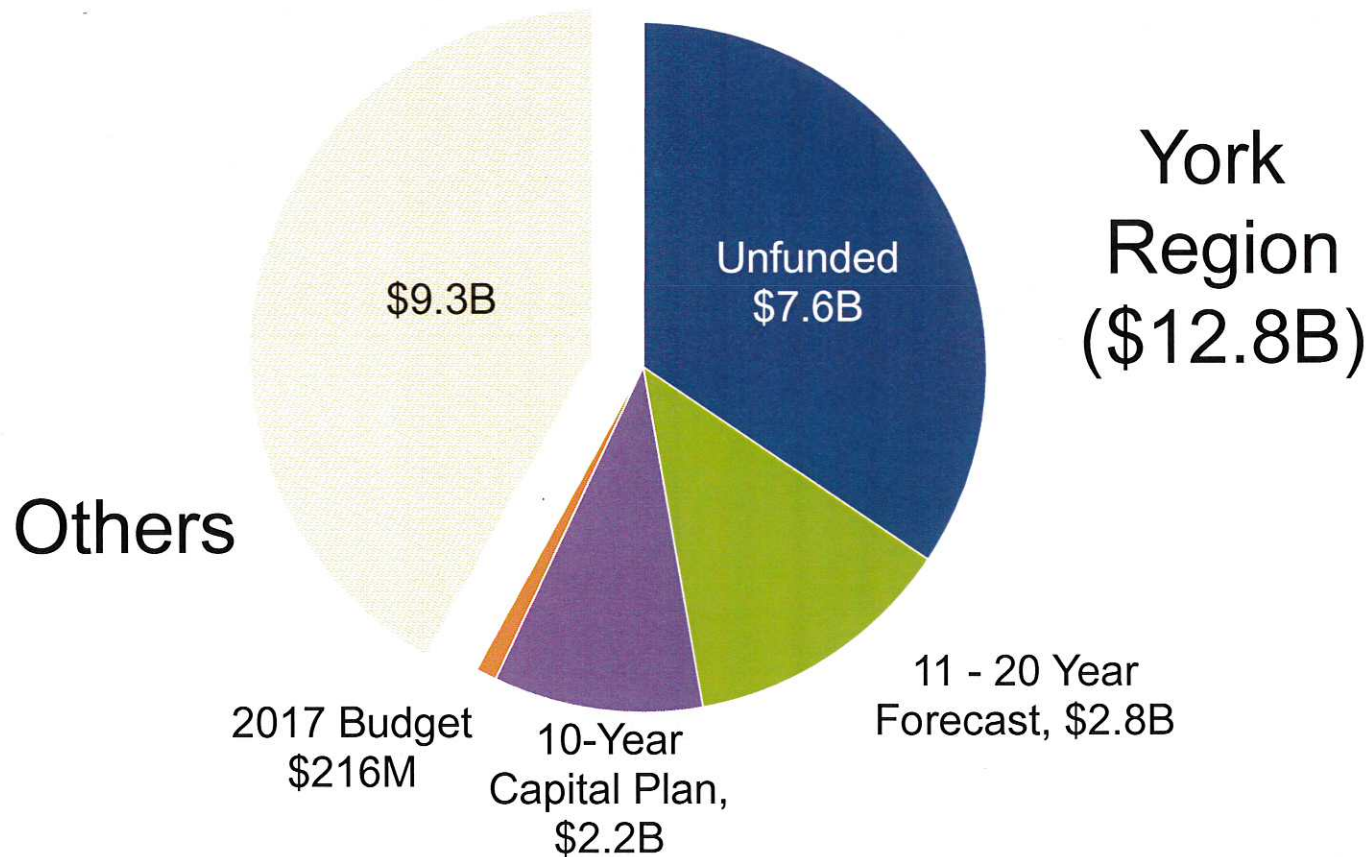
**OF THE \$22.1B INFRASTRUCTURE VISION,
THE REGION'S SHARE OF THE 2016 TMP IS
ANTICIPATED TO BE \$12.8B OVER 25 YEARS**

2016 Transportation Master Plan, \$22.1 Billion



60% OF THE REGIONAL TMP COST IS NOT ACCOMMODATED IN THE FISCAL PLAN

Forecasted Capital Program Compared to TMP Vision



TRANSPORTATION CAPITAL PRIORITIZING AND PROGRAMMING

THE 10-YEAR ROADS CAPITAL PLAN INCLUDES BOTH ASSET MANAGEMENT AND GROWTH PROJECTS



The Regional Municipality of York
Transportation →
Master Plan



Transportation
Vision

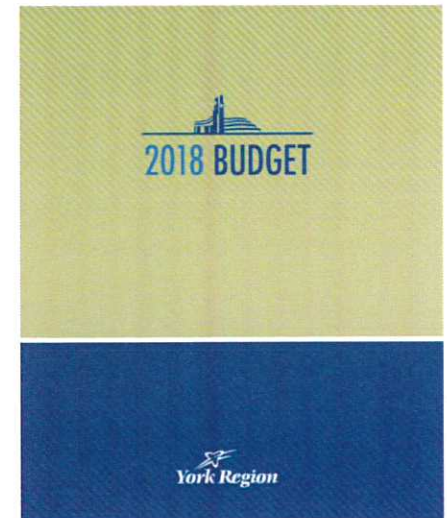


Roads Growth

Asset Management



Annual Capital
Planning Process



Approved 10-Year
Capital Program

COUNCIL-APPROVED PRIORITIZATION FRAMEWORK IS BASED ON MULTIPLE CRITERIA

The main principles that drive the multi-criteria prioritization process include:

Capacity

- Current volume / Capacity
- Future volume / Capacity

Development

- Active Development
- Population Growth
- Employment Growth

Population and Employment

- Current population
- Current Employment

Multi Modal Network

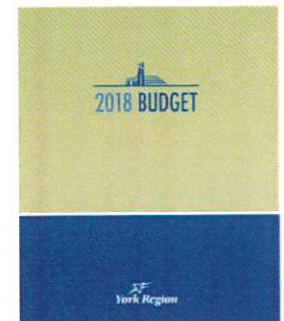
- Bus Score
- Truck % Score
- Centres and Corridors Score
- Highway Connection Score



10-Year Roads and Transit Capital Program is reviewed annually to ensure infrastructure meets Regional growth and maintenance priorities

TRANSPORTATION CAPITAL PRIORITIES BALANCE

THE IMMEDIATE AND LONG TERM NEEDS



Existing capacity
Constraints

New urban
areas and infill

Supporting
intensification

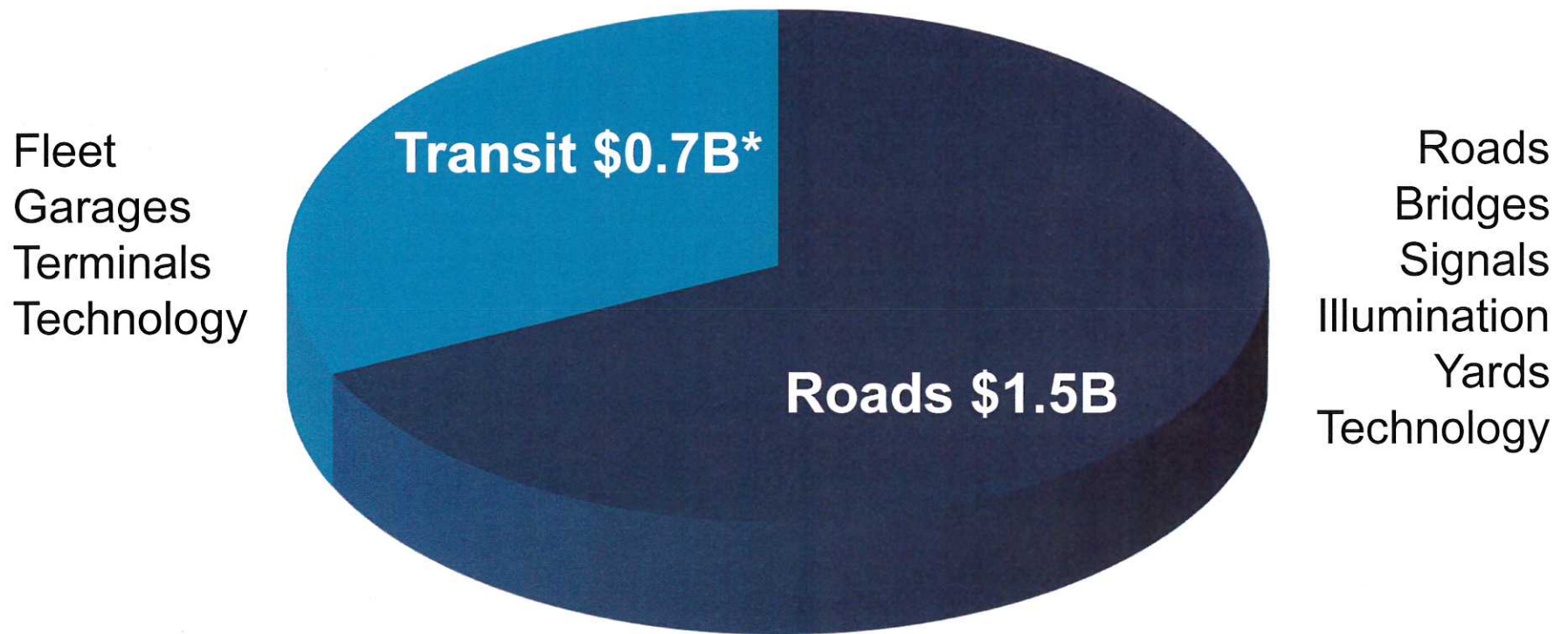
Asset
Management

KEY MESSAGES

1. York Region has an established Prioritization Framework for both roads asset management and growth projects
2. Short and immediate term objectives exceed current funding abilities
3. Considerations for transportation capital priorities continue to balance the immediate and long term needs of the Region's nine local municipalities

2018 TRANSPORTATION CAPITAL CONSTRUCTION PROGRAM

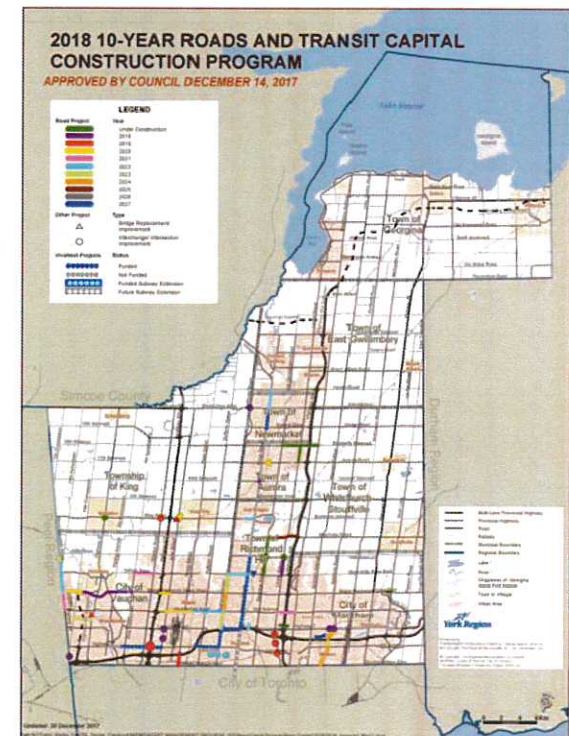
\$2.2B* 10-YEAR TRANSPORTATION CAPITAL BUDGET



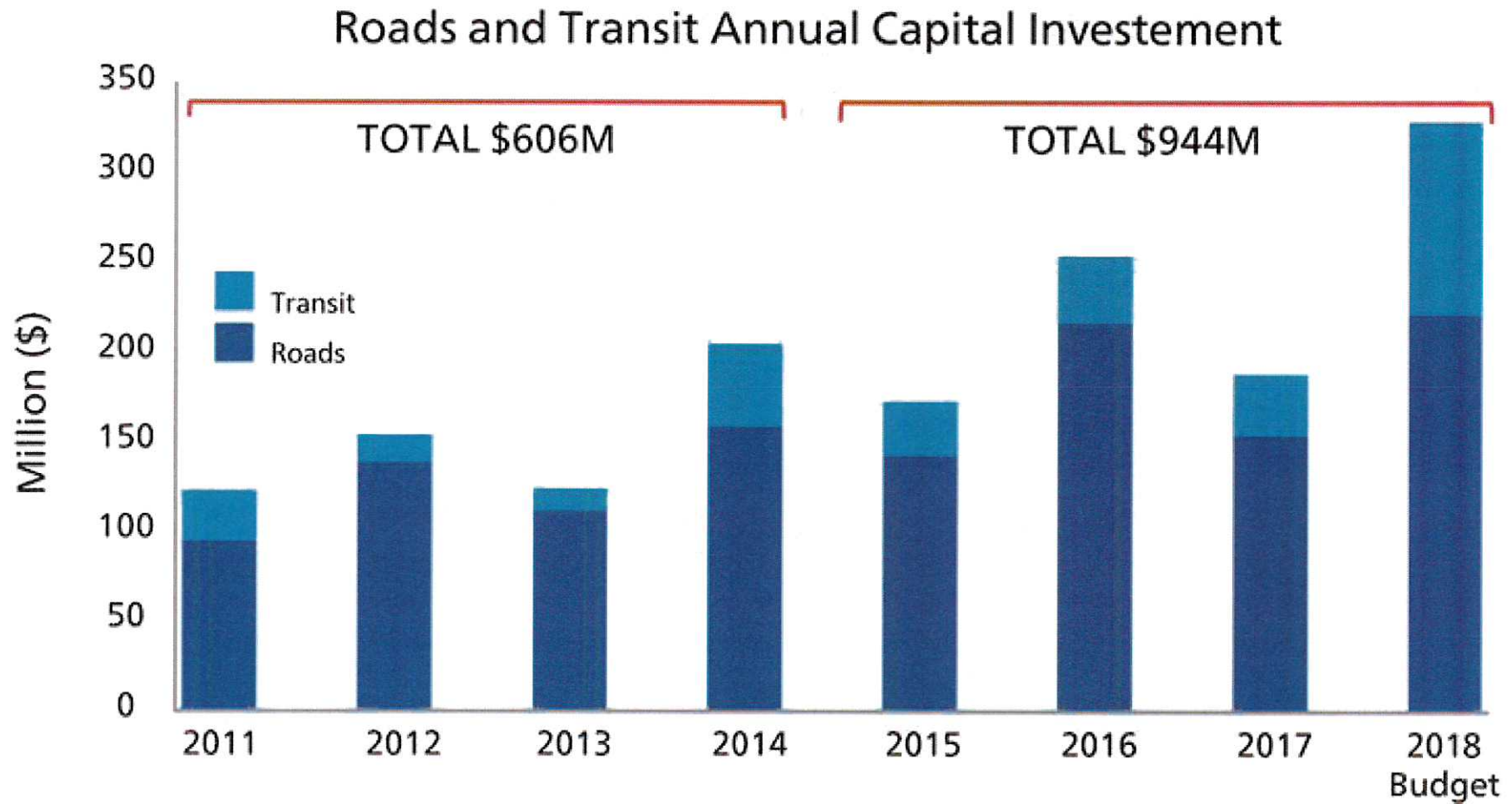
*Excludes investments in YRRTC program

10-YEAR CAPITAL CONSTRUCTION PROGRAM IS THE ANNUAL PRODUCT OF THE PRIORITIZATION FRAMEWORK

- 2018 10-Year Capital Program for roads and transit supports:
 - 165 new lane kilometres of road
 - New intersections and bridge rehabilitation
 - Transit Investment
 - Asset Management
- \$2.2B 10-Year roads and transit investment for 2018 to 2027 period



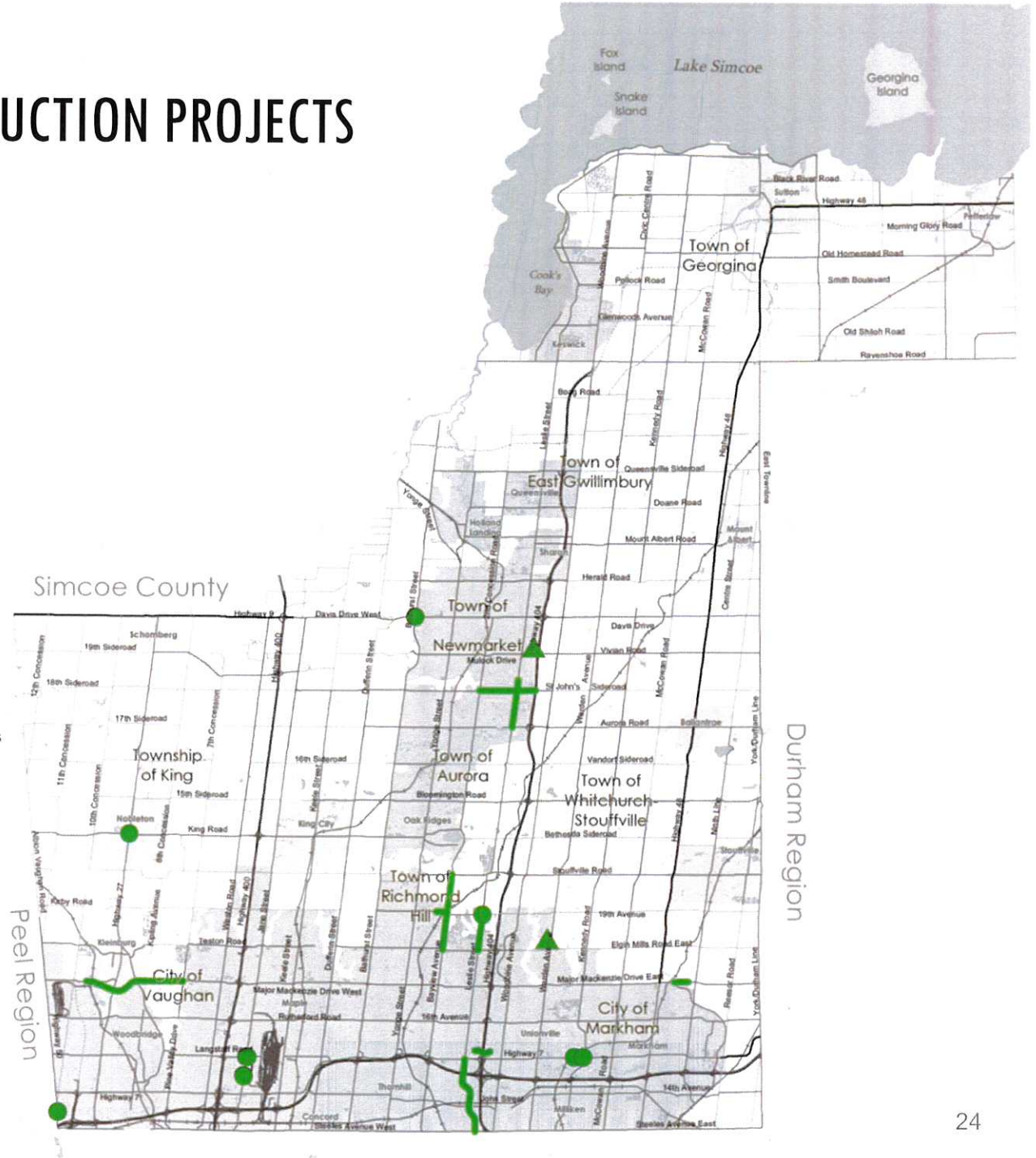
INCREASED FUNDING IN ROADS AND TRANSIT



20 GROWTH CONSTRUCTION PROJECTS UNDERWAY IN 2018

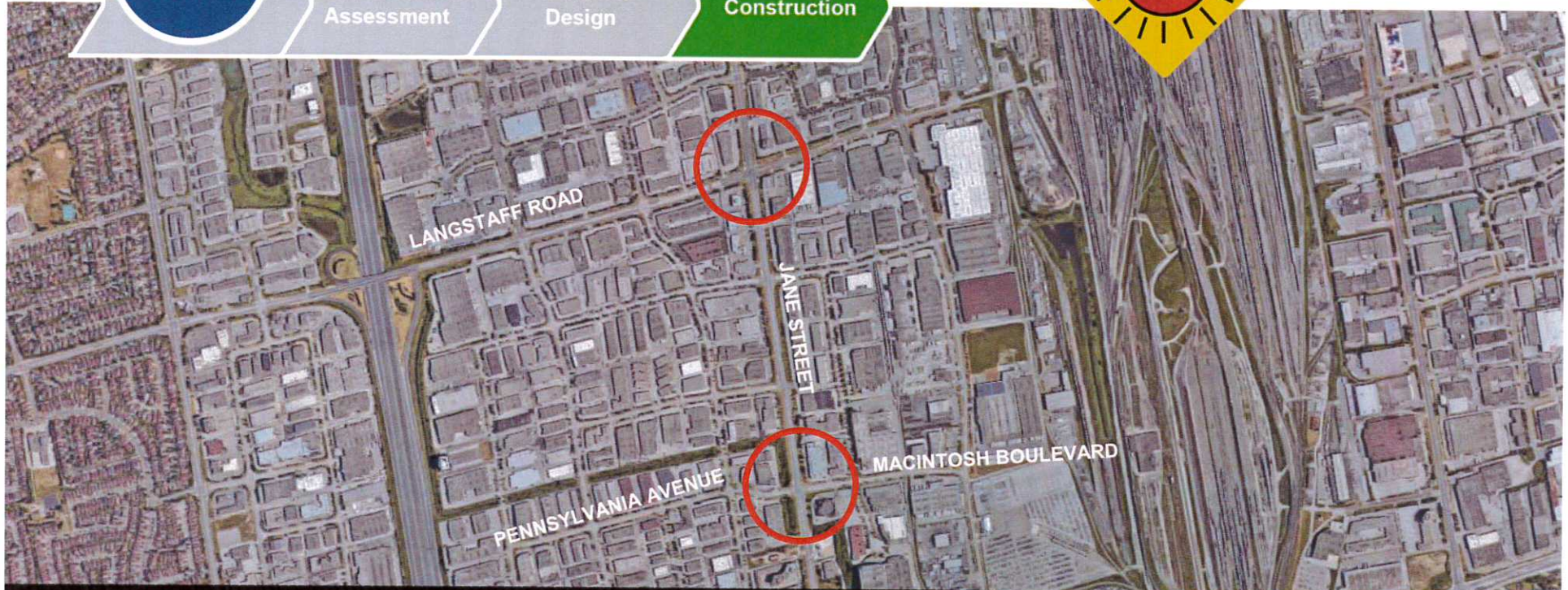
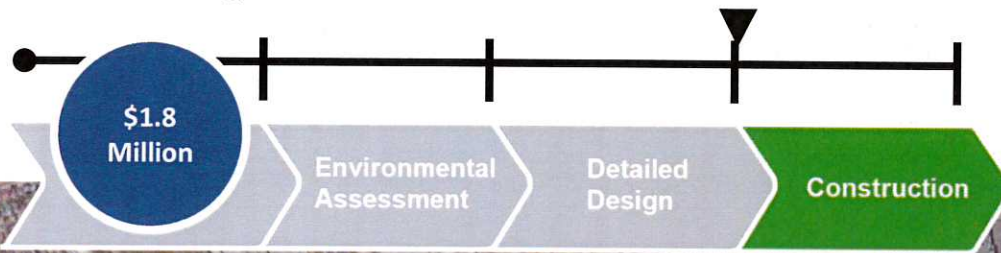
Construction - Growth Projects

- Intersection Improvements = 8 locations
- ▲ Facility = 2 locations
- Road Reconstruction / Widening = 10 locations



JANE STREET

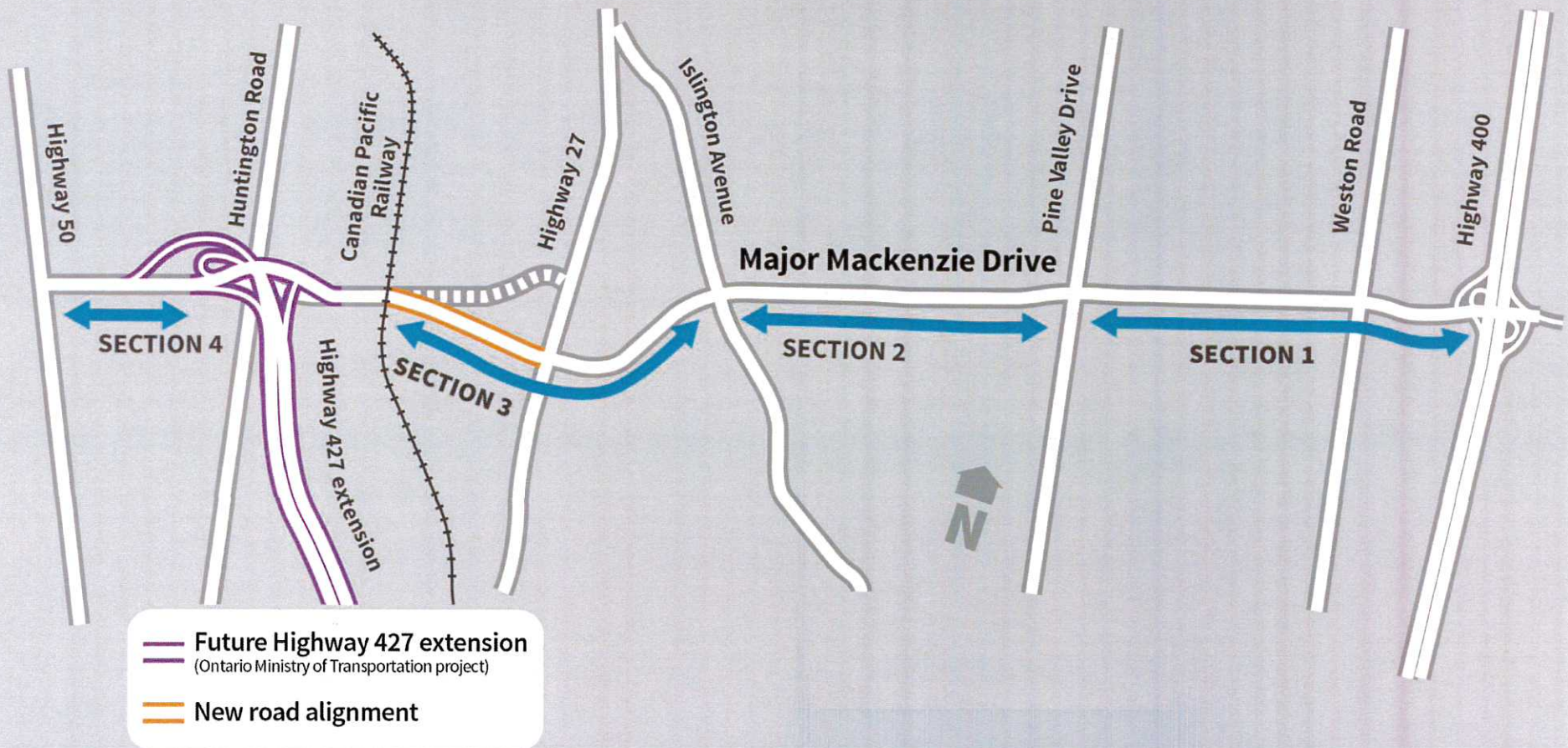
Intersection Improvements at Pennsylvania Avenue/MacIntosh Boulevard
and at Langstaff Road



Improvements at 2 intersections to install queue jump lanes

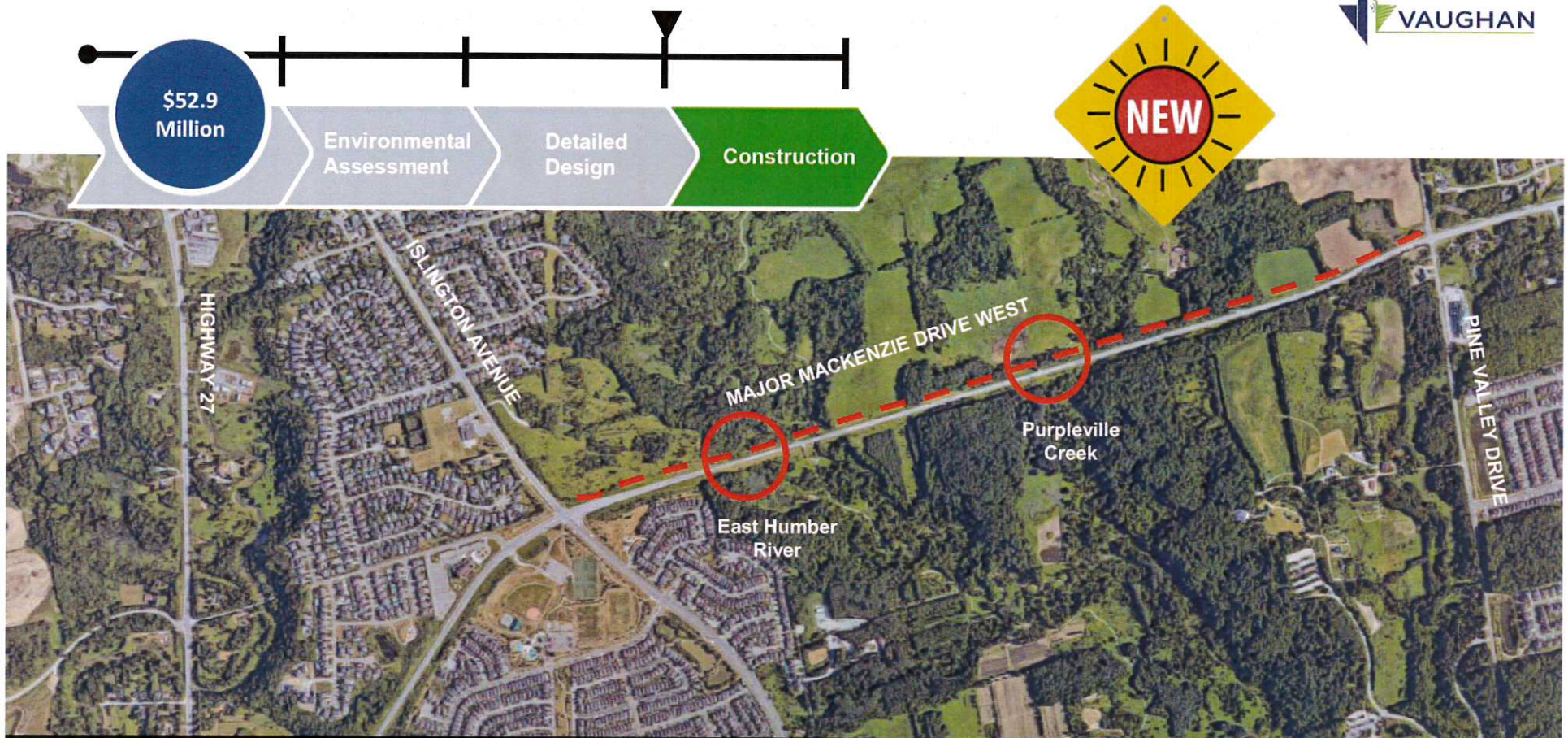
MAJOR MACKENZIE DRIVE

Section 1: Construction complete
Section 2: To be tendered late 2018
Section 3: Construction underway
Section 4: To be tendered in 2020



MAJOR MACKENZIE DRIVE

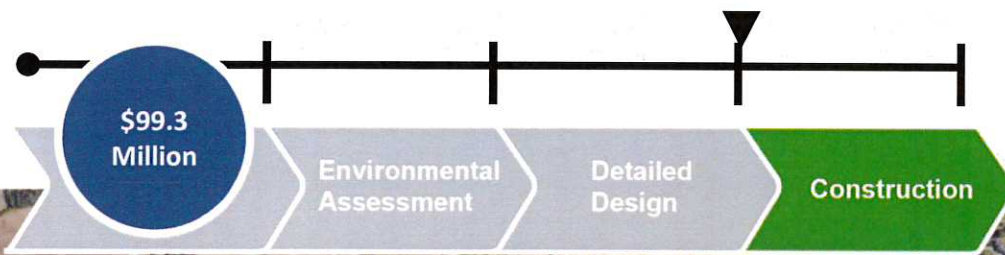
Islington Avenue to Pine Valley Drive



Widening from two to six lanes, including bridges over East Humber River and Purpleville Creek, multi-use path, sidewalk and illumination

MAJOR MACKENZIE DRIVE

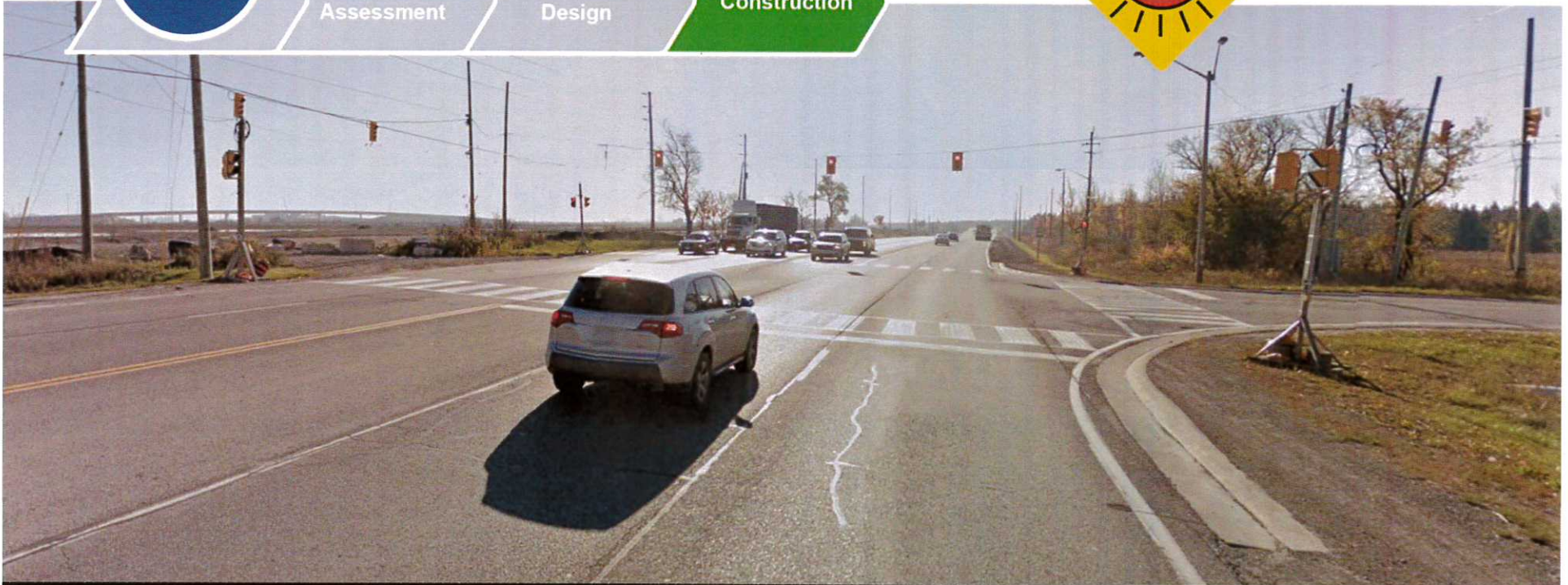
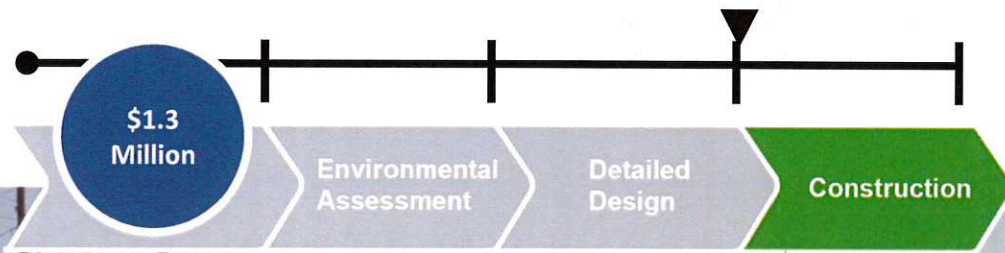
CPR Tracks to Islington Avenue



Widening from two to six lanes, including eliminating the jog at Highway 27 and building bridges over the Canadian Pacific Railway tracks and the Humber River

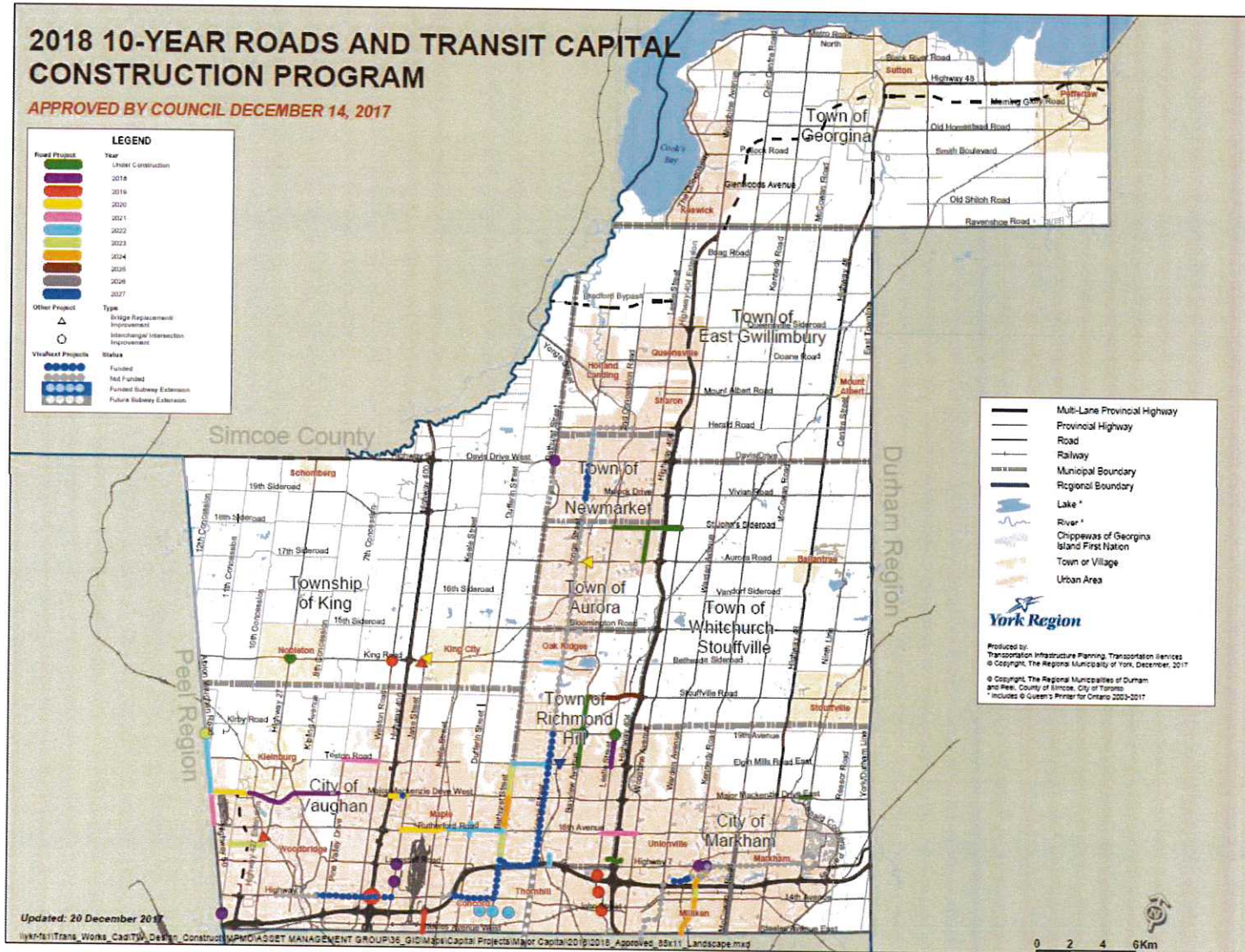
HIGHWAY 50 AT GORE ROAD

Intersection Improvements



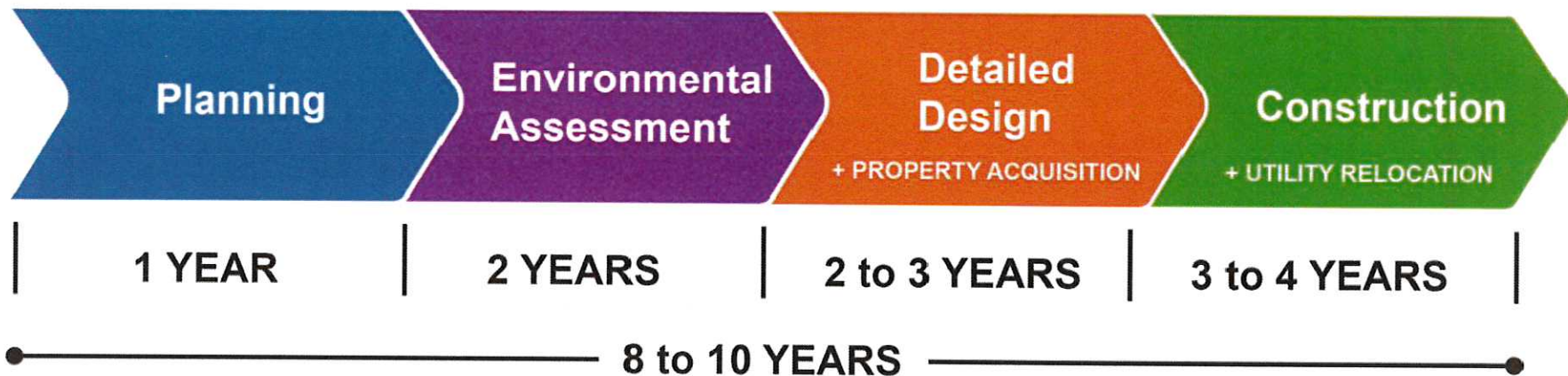
Intersection improvements including northbound double left-turn lanes

PLANNING FOR THE FUTURE






GROWTH PHASES AND TIMELINES

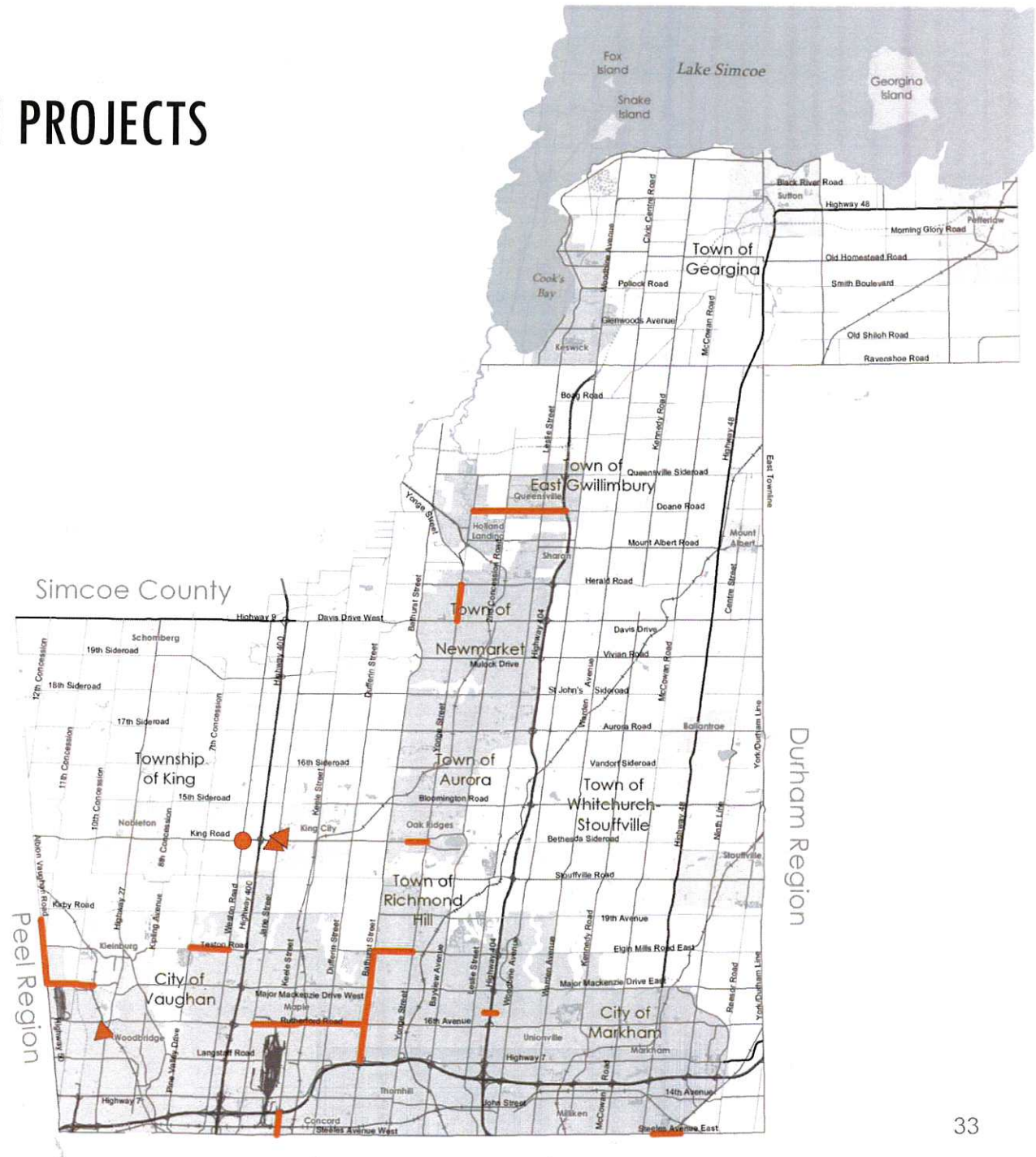
Growth projects take 8 to 10 years from start to finish



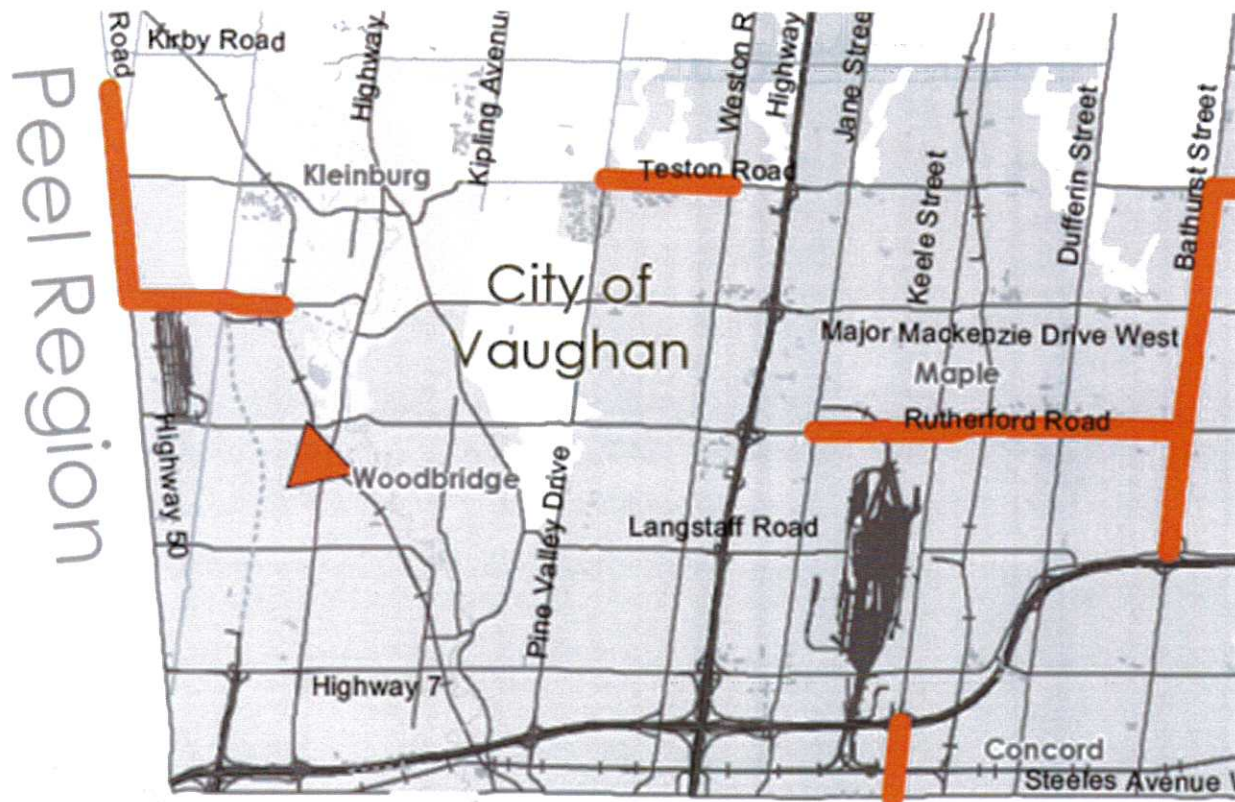
18 DETAILED DESIGN PROJECTS UNDERWAY IN 2018

Detailed Design

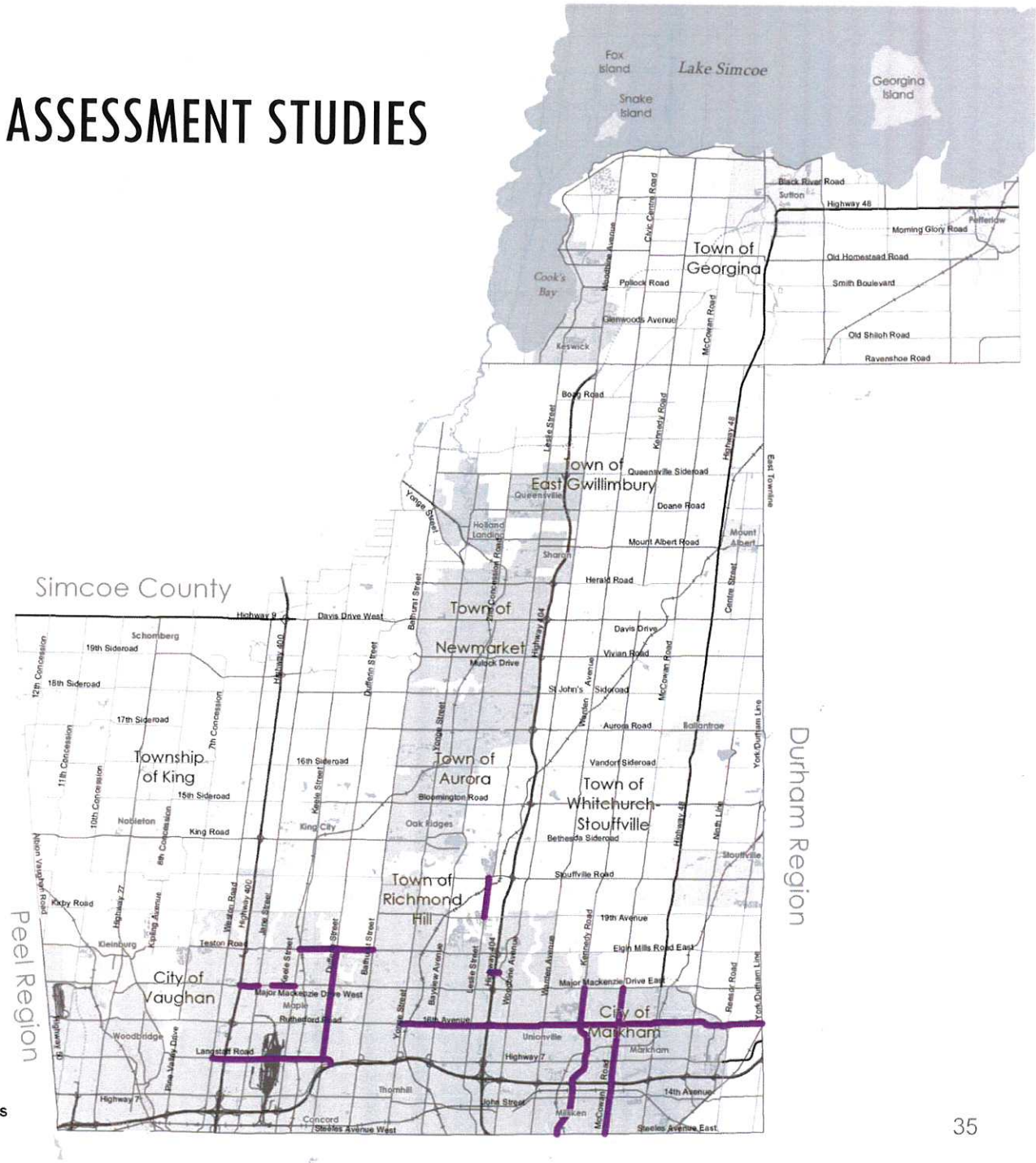
-  Intersection = 1 location
-  Structures = 3 locations
-  Roads = 14 locations



IN THE CITY OF VAUGHAN, 9 DETAILED DESIGN PROJECTS UNDERWAY IN 2018



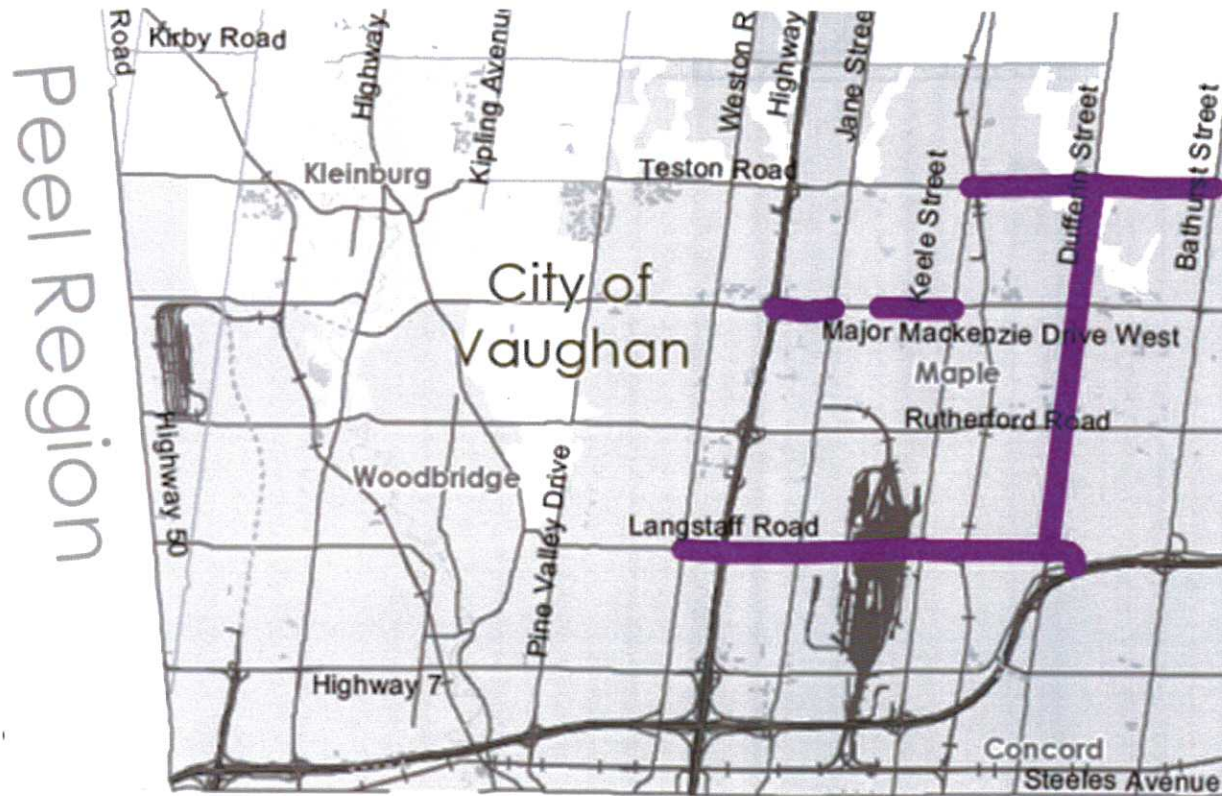
11 ENVIRONMENTAL ASSESSMENT STUDIES UNDERWAY IN 2018



Environmental Assessment Studies

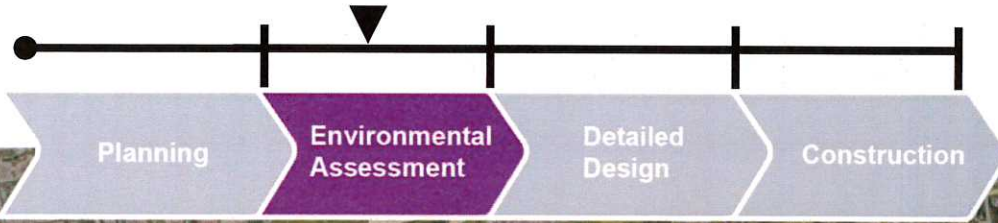
— Environmental Assessment Study = 11 locations

IN THE CITY OF VAUGHAN, 5 ENVIRONMENTAL ASSESSMENT STUDIES UNDERWAY IN 2018



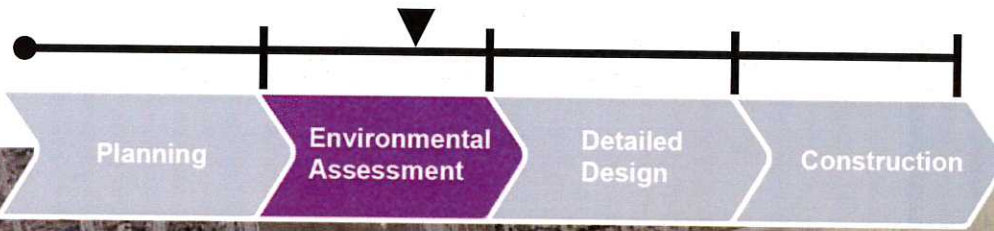
DUFFERIN STREET

Langstaff Road to Teston Road



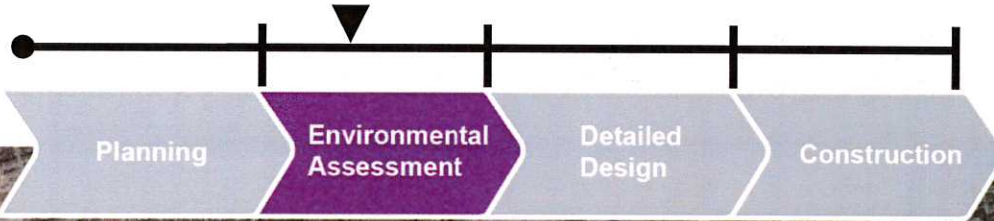
MAJOR MACKENZIE DRIVE WEST

Highway 400 to Jane Street



LANGSTAFF ROAD

Weston Road to Highway 7



--- = missing link in road network



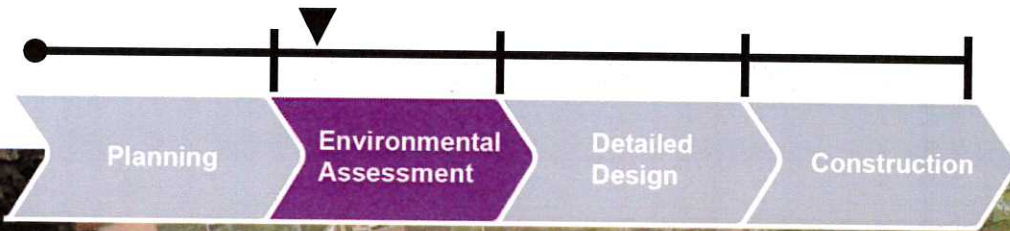
TESTON ROAD

Keele Street to Bathurst Street



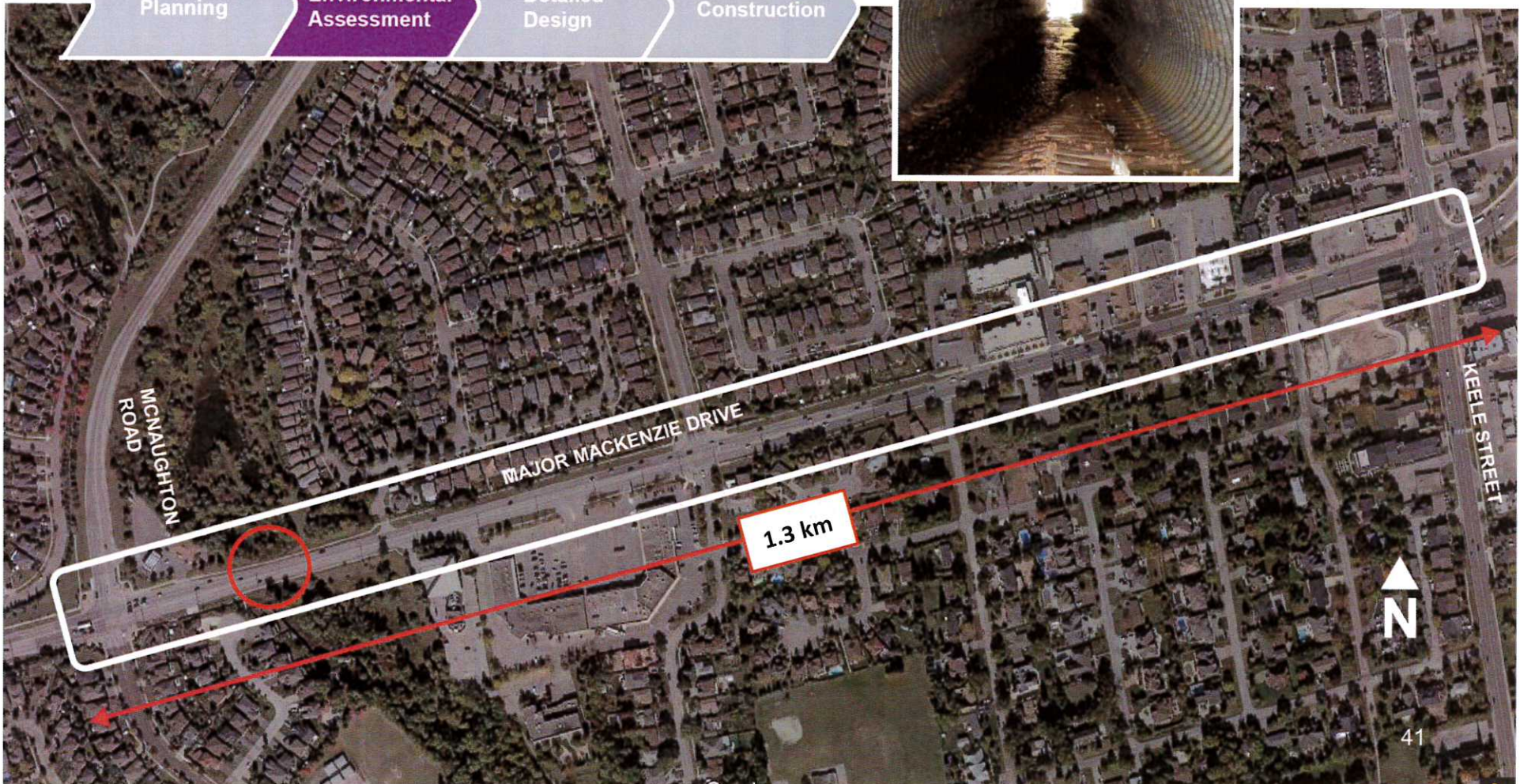
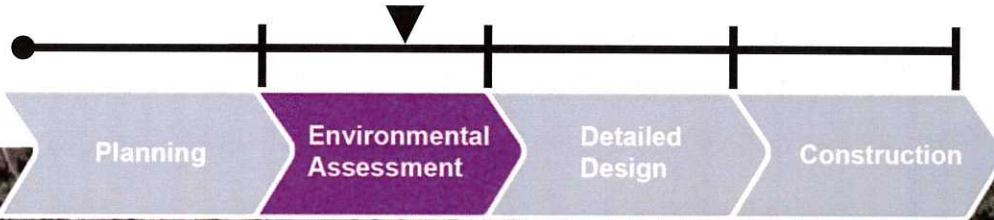
Study area

--- = missing link in road network



MAJOR MACKENZIE DRIVE

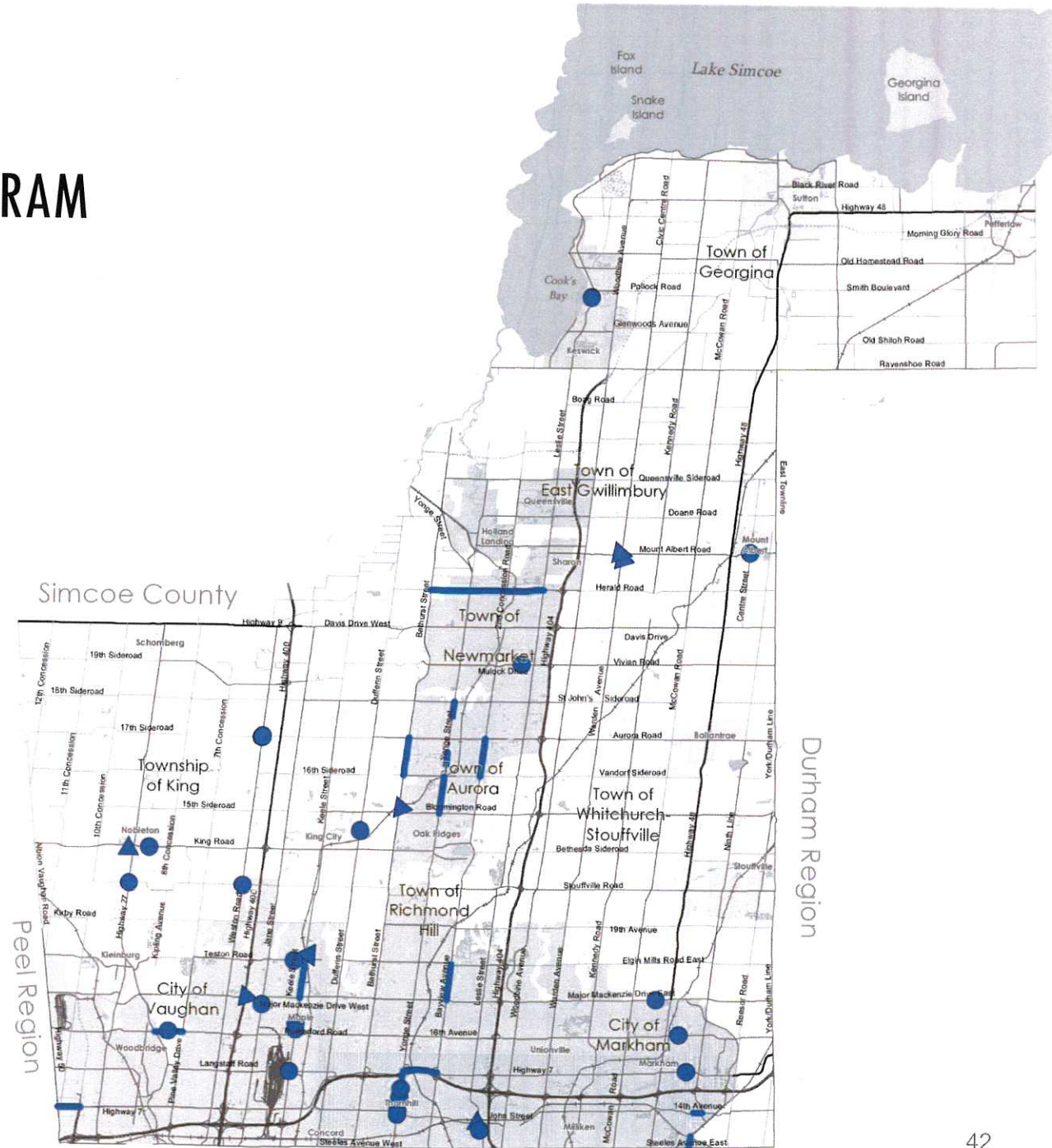
Operational Improvements from McNaughton Road to Keele Street



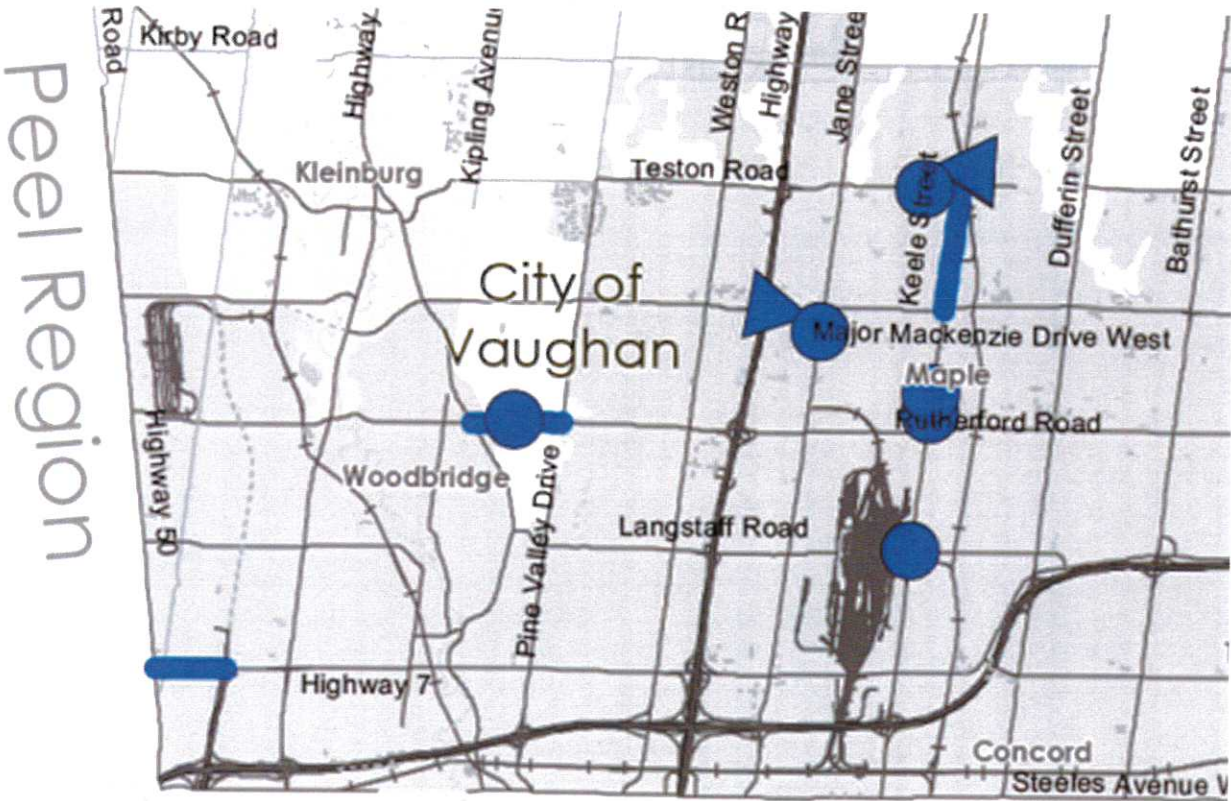
2018 ROADS ASSET MANAGEMENT PROGRAM

Asset Management

- Intersection Improvement = 19 locations
- ▲ Structure Improvement = 7 locations
- Rehabilitation / Resurfacing = 14 locations



IN THE CITY OF VAUGHAN, 11 ROADS ASSET MANAGEMENT PROJECTS UNDERWAY IN 2018



2018 ROAD REHABILITATION AND RESURFACING



\$21.4
Million

Rehabilitate 68 lane kilometres in York Region
Resurface 45 lane kilometres in York Region

2018 ROAD REHABILITATION AND PRESERVATION IN VAUGHAN

\$4.8
Million

Road Name	From	To
Highway 7 - Rehabilitation	40m east of Highway 50	Highway 427
Keele Street - Preservation	15m north of Major Mackenzie Drive	220m north of Teston Road
Rutherford Road - Rehabilitation	230m east of Islington Avenue	100m east of Pine Valley Drive
Yonge Street - Rehabilitation	95m south of John Street	135m south of Langstaff Road

2018 STRUCTURE REHABILITATION



\$7.0
Million

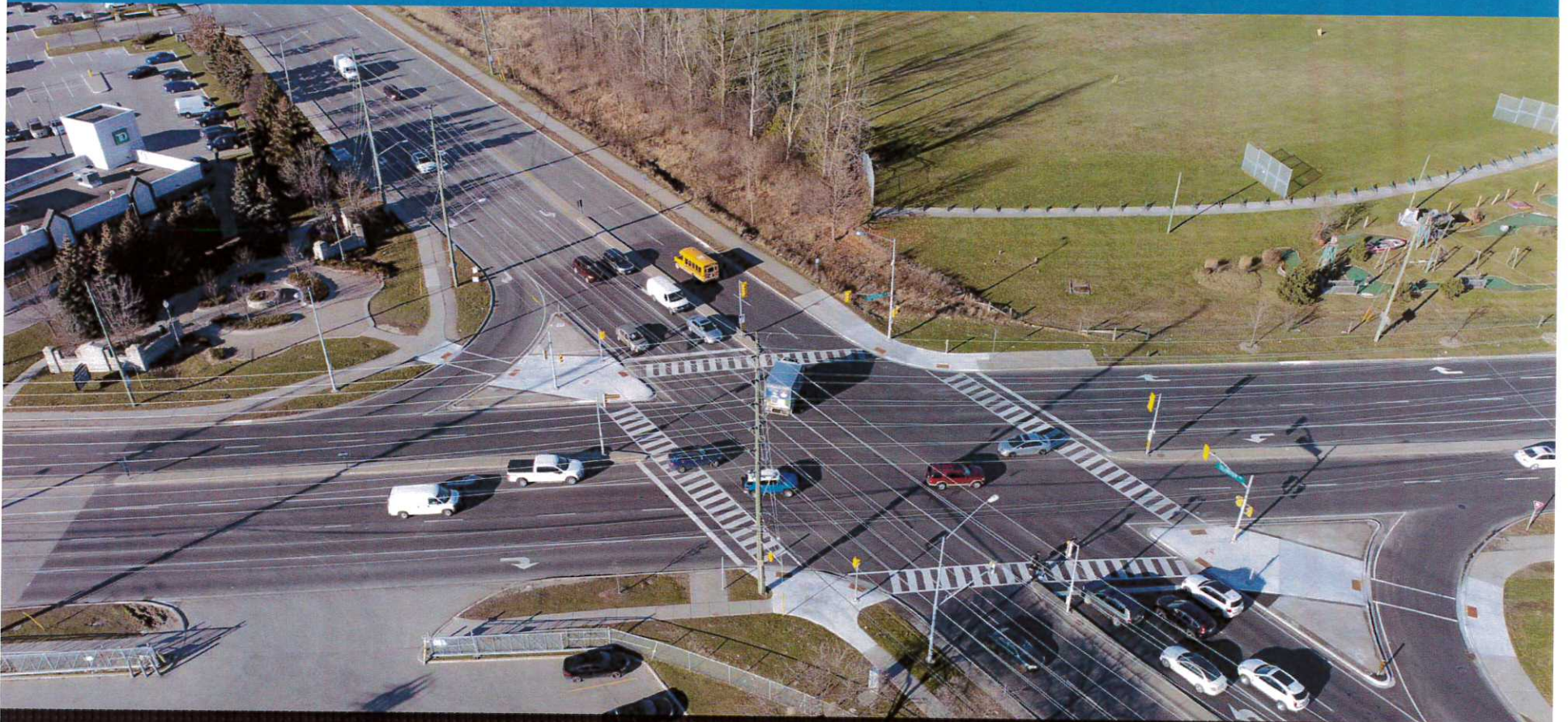
Rehabilitate 8 structures in York Region

2018 STRUCTURE REHABILITATION — 2 LOCATIONS IN VAUGHAN

\$0.9
Million

Project Name	Location
Major Mackenzie Drive Culvert	East of Highway 400
Keele Street Bridge	310m north of Teston Road

2018 INTERSECTION IMPROVEMENTS



\$6.1
Million

Improve 18 Intersections in York Region

2018 STRUCTURE REHABILITATION — 12 LOCATIONS IN VAUGHAN

\$2.7
Million

Intersection	Scope
Highway 27 and King-Vaughan Road	Traffic Signal Installation
Jane Street and Avro Road	Traffic Signal Modifications
Keele Street and Cromwell Road/ Fieldgate Drive	AODA Intersection Modifications
Keele Street and Dina Road	AODA Intersection Modifications
Keele Street and Langstaff Road	Traffic Signal Modernization
Rutherford Road at Emily Carr Secondary School	Traffic Signal Modernization
Teston Road and St Joan of Arc Avenue	Traffic Signal Installation
Weston Road and King-Vaughan Road	Traffic Signal Installation
Yonge Street and Uplands Ave	Intersection Improvement
Yonge Street and Royal Orchard Blvd	Intersection Improvement
Yonge Street and Centre Street	Intersection Improvement
Yonge Street and John Street	Intersection Improvement

2018 ROADS PROGRAM MAP

89 Locations

Construction - Growth Projects

- Intersection Improvements = 8 locations
- ▲ Facility = 2 locations
- Road Reconstruction / Widening = 10 locations

Asset Management

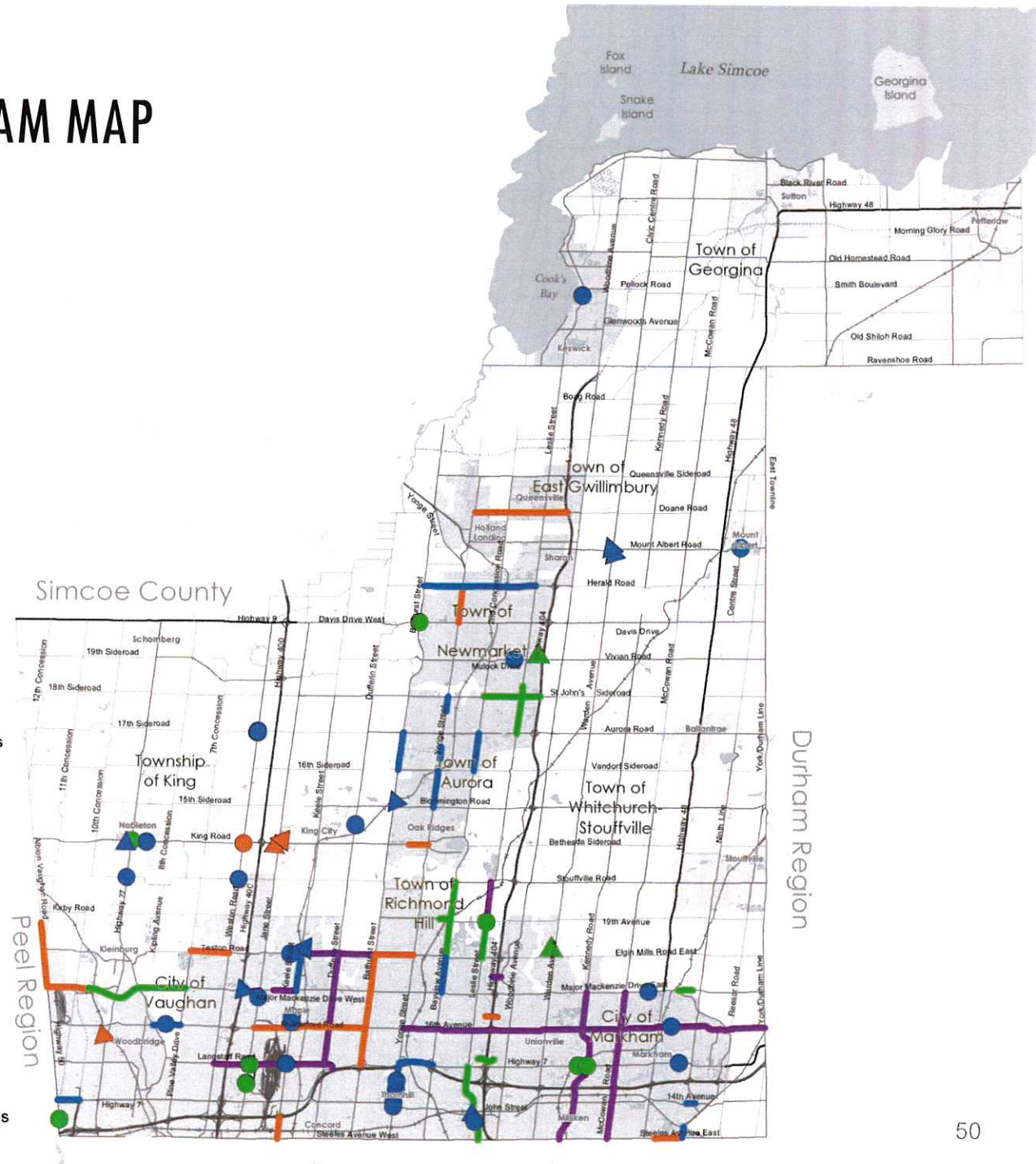
- Intersection Improvement = 19 locations
- ▲ Structure Improvement = 7 locations
- Rehabilitation / Resurfacing = 14 locations

Detailed Design

- Intersection = 1 location
- ▲ Structures = 3 locations
- Roads = 14 locations

Environmental Assessment Studies

- Environmental Assessment Study = 11 locations



KEY MESSAGES

1. York Region has made a record investment in transportation services during this term of Council
2. Regional Council approved a Capital Program that balances growth and asset management needs
3. York Region focuses on coordinating delivery of infrastructure through partnerships with the Province, local municipalities and agencies
4. York Region is building a network to service the needs of the Region's 1.2 million residents and businesses

QUESTIONS / DISCUSSION

For more information

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