

April 23, 2019

Ms. Kimberley Kitteringham  
City Clerk  
City of Markham  
101 Town Centre Boulevard  
Markham, ON L3R 9W3

Dear Ms. Kitteringham:

**Re: Transportation Services Capital Infrastructure Status Update**

Regional Council, at its meeting held on April 18, 2019, adopted the following recommendation of Committee of the Whole regarding "Transportation Services Capital Infrastructure Status Update":

1. The Regional Clerk circulate this report to the local municipalities.

The original staff report is enclosed for your information.

Please contact Salim Alibhai, Director of Capital Planning and Delivery at 1-877-464-9675 ext. 75229 if you have any questions with respect to this matter.

Sincerely,



Christopher Raynor  
Regional Clerk

Attachment

# **The Regional Municipality of York**

Committee of the Whole  
Transportation Services  
April 4, 2019

Report of the Commissioner of Transportation Services

## **Transportation Services Capital Infrastructure Status Update**

### **1. Recommendation**

The Regional Clerk circulate this report to the local municipalities.

### **2. Summary**

This annual report provides Council with an update on 2018 accomplishments and projects that will be delivered in 2019 to service the Region's growing communities under the Transportation Services Roads and Transit Capital Program.

Key Points:

- Communities continue to benefit from a Regional transportation network that serves more than 600,000 commuters every day, including 70,000 transit riders.
- Residents are provided with better, more efficient access to work, home, schools and other destinations across the Region.
- In 2018, Transportation Services invested \$217 million throughout the Region in roads and transit infrastructure programs for growth and asset management. Construction was completed on a number of projects, buses were purchased and work continued on pre-construction activities such as environmental assessment studies and detailed design.
- In 2019, \$339 million will be invested in roads and transit infrastructure programs for growth and asset management. Construction is planned at over 100 locations and pre-construction work will continue to prepare projects for delivery in future years.

### **3. Background**

#### **Transportation Services is investing \$2.8 billion through the Growth and Asset Management Programs over the next 10 years to better serve the Region's growing communities**

The 2019 10-Year Roads and Transit Capital Program (Program), with a budget of \$2.8 billion, is divided into a Growth Program, valued at approximately \$1.5 billion, and an Asset Management Program, valued at approximately \$1.3 billion. Transportation Services is responsible for delivering approximately 42 per cent of the Regional 10-Year Capital Plan. The delivery of this program provides York Region residents with a better and more efficient transportation network.

Transportation Services is investing more than \$339 million in 2019 for Regional growth and asset management projects; 39 per cent of the Region's total capital investment for the year. This investment is in addition to the \$301 million being invested in the rapid transit network in York Region through projects undertaken by the York Region Rapid Transit Corporation (YRRTC). Rapid transit projects are funded jointly by the Region and Metrolinx. These investments reflect Council's support of growing a Regional transit system, building road and transit system improvements and maintaining transportation assets to provide an efficient transportation network and enhance the traveller experience. Attachments 1 and 2 show the locations of current projects, with the exception of some asset management projects. Projects to be undertaken under the Program in 2019 by Transportation Services (excluding YRRTC projects) are summarized in Attachment 3.

#### **The Growth Program focuses on expanding the Regional road and transit network to offer travellers a range of services and options**

Transportation Services builds Regional roads to a high standard so that people and goods can travel more easily and support economic growth. An increasingly integrated travel network links public transit, private vehicle, cycling and walking options to give travellers greater flexibility and convenience, while managing traffic flow and reducing pollution.

The Growth Program focuses on building system improvements to increase the capacity of the Regional road and transit network, including:

- Road reconstruction and widening
- Building new links in the Regional road network
- Midblock crossings of Provincial highways
- Major bridge replacements and upgrades
- Intersection upgrades to improve traffic operations
- Streetscaping

- Green infrastructure, including street tree and landscape plantings, irrigation systems and other supporting technologies
- Fibre optic cables or conduits, where appropriate
- Active transportation facilities
- Building or expanding transit terminals and operations and maintenance facilities
- Expansion of transit bus fleet
- Traveller amenities including shelters, electronic signs to provide real-time information, waste/recycling receptacles and bike racks

### **The Asset Management Program focuses on rehabilitation and replacement of the Region's \$4 billion in existing transportation assets**

Transportation Services manages more than \$4 billion in infrastructure, including Regional roads, cycling lanes, bridges, traffic signal controlled intersections, transit terminals, fleet vehicles and maintenance facilities. Beginning in 2019, the Region's investment in the Asset Management Program will increase significantly, with an additional \$546 million being invested over the next 10 years. This reflects Transportation Services' priority to extend the life of Regionally-managed assets and reduce life cycle costs.

The Asset Management Program focuses on rehabilitation and replacement of existing transportation assets, including:

- Pavement repair, preservation and rehabilitation
- Bridge and culvert rehabilitation or replacement
- Roadside safety device improvements
- Intersection improvements, including reconstruction of traffic control signals and upgrades to meet Accessibility for Ontarians with Disabilities Act (AODA) requirements
- Transit terminal, station and bus stop repairs and improvements
- Transit fleet midlife overhaul
- Transit fleet retirement and replacement
- Transit facility maintenance and rehabilitation

### **The Municipal Streetscape Partnership Program provides funding to local municipalities on a cost-share basis to support streetscape design enhancements on Regional Roads**

Through the Municipal Streetscape Partnership Program, a component of the Roads Growth Program, the Region provides cost-share funding to local municipalities to support streetscape design enhancements on Regional roads. This includes elements such as street tree planters, decorative street lighting, banner poles, street furniture, gateway features,

planting, coloured crosswalks and public art. Streetscape design supports a context sensitive approach to designing vibrant communities in an urbanizing Region. Living elements, such as street trees, support healthy communities by providing many co-benefits including, improved public health, energy savings and improved storm water management.

The Municipal Streetscape Partnership Program has an annual budget of \$1 million available for capital cost-sharing, subject to annual capital budget approval by Council. Approved applications for funding and projects completed in 2018 under the program are summarized in Attachment 4. Operation, maintenance and long-term rehabilitation of enhanced streetscape features are the responsibility of the local municipality.

In addition to any streetscape design enhancements delivered through the Municipal Streetscaping Partnership Program, the Region looks to incorporate streetscape design enhancements in all capital projects. These enhancements vary depending on the location and context of the project.

### **The Pedestrian and Cycling Municipal Partnership Program provides funding to local municipalities on a cost-share basis for projects that support walking and cycling in the Region**

The Pedestrian and Cycling Municipal Partnership Program, a component of the Roads Growth Program, assists with the implementation of local-led walking and cycling infrastructure that forms part of the Regional-scale network. This includes design and construction costs, but excludes property acquisition, new curbs, gutters or sidewalks, interlocking pavers, landscaping and end of trip facilities, such as parking lots.

The Pedestrian and Cycling Municipal Partnership Program has an annual budget of \$500,000 available for capital cost sharing, subject to annual capital budget approval by Council. Approved applications for funding and projects completed in 2018 under the program are summarized in Attachment 5. Ownership, operation, maintenance and long-term rehabilitation of the improvements are the responsibility of the local municipality.

In addition to any infrastructure delivered through this program, the Region looks to incorporate pedestrian and cycling infrastructure in all capital projects. The pedestrian and cycling infrastructure included in the Region's projects may include on-street bike lanes, cycle tracks, paved shoulders, multi-use paths or sidewalks, depending on the project location and context. These facilities may be within the Region's right-of-way on the road or boulevard, or off-road, such as through a park.

## **4. Analysis**

### **In 2018, work was advanced on many infrastructure projects to provide residents with a better and more efficient Regional transportation network**

With an investment of \$217 million, better and more efficient access to work, home, schools and other destinations across the Region has been provided to residents through a number

of Transportation Services projects, including road widenings, a newly constructed mid-block crossing that serves as a vital link between key business areas, addition of 19 lane-kilometres of road and 33 kilometres of cycling lanes and an enhanced suite of transit services. A list of 2018 accomplishments is included as Attachment 6.

### **Programs and projects planned for 2019 will support the Region's growing communities**

In response to the Region's growing population, there is a continued focus on urbanizing and widening existing rural roads. Service reliability and delivering quality transit service continues to be a priority to support the Region's transportation and mobility needs. Several multi-year contracts were awarded in 2017 and 2018 and work on these will continue in 2019. Several new contracts will also be tendered in 2019.

Travellers in the Region's growing communities need safe, reliable and efficient services. This is a priority for the Region and construction, taking place at over 100 locations in 2019, is being managed to proactively minimize disruptions to travellers while building and maintaining a world-class transportation network. This includes ensuring projects are scheduled so that parallel Regional roads are not under construction simultaneously, whenever possible.

As noted previously in this report, projects scheduled for 2019 that will continue to build system improvements in the Region are listed in Attachment 3.

### **In 2019, \$339 million will be invested in Roads and Transit programs**

With an investment of \$248 million the Growth Program, construction will continue on 14 major capital infrastructure projects and work will commence on 10 new projects. The projects include road widenings, major intersection improvements to add lanes, a snow management facility, expansion of bus garage and a new bus terminal.

Under the Asset Management Program, \$91 million will be invested in roads and transit infrastructure and fleet. Construction is planned at more than 80 locations throughout the Region to keep the road assets in a state of good repair including road rehabilitation and resurfacing, bridge and culvert rehabilitation and intersection improvements. Under the Fleet Retirement and Replacement Program, 21 buses will be purchased, including VIVA, conventional and electric buses.

### **Pre-construction activities are programmed to prepare projects for construction in future years**

On average, it takes eight to ten years to deliver major capital infrastructure projects. Environmental assessment studies need to be undertaken, projects designed, permits and approvals from regulatory authorities obtained, property acquired and utilities moved before construction can commence. While the Region endeavours to deliver these projects in a timely manner, there are numerous external influences that are required to be managed for a timely and successful project outcome. In recent years project delivery has been delayed due

the need to acquire land from Provincial institutions, which the Region cannot expropriate, negotiating cost-sharing agreements with rail companies, obtaining environmental permits from Federal and Provincial agencies that have limited resources, managing competing priorities of utility companies and adapting to changing Federal and Provincial laws and regulations. To minimize delays in delivering projects, staff has programmed and will continue pre-construction work on 27 projects to prepare these projects for construction in future years.

### **Planning of projects is coordinated with other departments and agencies**

Coordinating with Environmental Services and other agency infrastructure programs, including local municipalities, rail authorities, York Region Rapid Transit Corporation, YTN Telecom Network Inc. and the Ministry of Transportation of Ontario (MTO) is an important factor when planning construction projects within the Region. Effective coordination may result in financial benefits and help reduce disruption to travellers.

Examples include:

- Coordinating construction on Major Mackenzie Drive, from the Canadian Pacific Railway tracks to Highway 27, with MTO's proposed Highway 427 extension
- Coordinating the widening and grade separation of Rutherford Road with Metrolinx's expansion of the Rutherford GO station
- Coordinating road and YRT bus terminal construction on Major Mackenzie Drive, from Highway 400 to Jane Street, to coincide with the Mackenzie Vaughan Hospital
- Coordinating the proposed widening of 16th Avenue with MTO's Highway 404 widening project
- Coordinating the installation of water, wastewater and telecom infrastructure and planting street trees as part of road construction projects

### **Transportation Services has been recognized by several organizations for exceptional work on a number of projects in recent years**

In addition to creating an efficient transportation network, Transportation Services continues to deliver projects that enhance communities. Most recently, 'The Bayview Corridor Project' was recognized by the Ontario Public Works Association as Project of the Year in the Transportation \$10 million to \$50 million category, for not only improving mobility for motorists, pedestrians and cyclists but also for enhancing the surrounding environment and improving the habitat for brook trout through improved water quality, increased green areas and stream lengths. This project has also received the 2018 Engineering Project of the Year Award, Large-Sized Company Category, from the Professional Engineers Ontario York Chapter.

Other award winning projects from recent years include:

- The 2nd Concession Project

- Transportation Association of Canada Environmental Achievement Award
  - The Ontario Public Works Association 2017 Project of the Year Award
  - The Professional Engineers of Ontario 2017 Project of the Year Award
  - The Ontario Society of Professional Engineers 2018 Engineering Project or Achievement Award
- Warden Avenue Road Improvements
    - The Ontario Public Works Association 2016 Project of the Year Award
    - Precast/Pre-stressed Concrete Institute 2015 Design Award Winner

These awards demonstrate the quality of planning, design and execution that go in to each and every project carried out by the Region to meet the Region's travellers' needs as well as the needs of the communities these projects serve. Whenever possible, projects are designed to improve mobility for all corridor users while protecting the environment in our fast-growing region, showcase the beauty of the natural environment, connect growing communities and encourage healthy activities such as cycling and walking.

## 5. Financial

### **The 2019 10-Year Roads and Transit Capital Program has an approved budget of \$339 million for 2019**

The 2019 10-Year Roads and Transit Capital Program is on track to meet the 90 per cent delivery target of the 2019 budget. Meeting the budget target is an important indicator that project milestones are being achieved.

Resources are allocated appropriately to align with the vision and strategy previously approved by Council in the Transportation Master Plan. Policies and procedures are in place to minimize the Region's exposure to risk and to actively manage that exposure, while adhering to the highest standards of quality, transparency and accountability. All policies and procedures are reviewed regularly.

The 2018 actuals and 2019 capital budget for Roads and Transit are shown in Table 1.



**Table 1**  
**Roads and Transit 2018 Actuals and 2019 Capital Budget**

Program	2018 Actuals* (Millions)	2019 Budget (Millions)
Roads	\$174.4	\$250.0
Transit	42.4	89.4
Total	\$216.8	\$339.4

\*2018 Actuals are unaudited

As the Region makes increased capital investments in the Growth Program, there will be a corresponding need to increase the operating budget to routinely maintain the new infrastructure. Options to minimize impacts to the operating budget are carefully considered during the design phase.

**With an additional \$301 million being invested in rapid transit infrastructure, a total of \$641 million is being invested in 2019 in the Region's transportation infrastructure**

The planning, design and construction of Regional roads and transit infrastructure is undertaken by Transportation Services while investment in the Region's rapid transit network and related infrastructure is led by York Region Rapid Transit Corporation.

The total investment being made in the Region's transportation infrastructure in 2018 and 2019 is outlined in Table 2.

**Table 2**  
**2018 Actuals and 2019 Capital Budget**

Program	2018 Actuals* (Millions)	2019 Budget (Millions)
Transportation Services	\$216.8	\$339.4
York Region Rapid Transit Corporation**	236.4	301.2
Total	\$453.2	\$640.6

\*2018 Actuals are unaudited

\*\*YRRTC Actuals and Budget include York Region and Metrolinx funding

## 6. Local Impact

Staff continues to work closely with local municipal staff to ensure concerns are addressed and local municipal infrastructure needs such as watermains, sewers, streetlights, sidewalks, streetscaping and multi-use paths are included in Regional projects, where possible. In 2019, \$13.3 million in local municipal infrastructure is included in Regional projects. This infrastructure work is funded by the local municipalities and has been rolled into Regional projects to gain efficiencies, providing local municipalities with cost or time savings and reducing the overall impact to travellers.

Ongoing transit growth and rehabilitation programs support the continued delivery of safe and reliable transit service and amenities to municipal travellers in the Region. Transportation Services continually strives to maintain service levels, while operating more efficiently.

Projects related to streetscaping and cycling and pedestrian facility improvements also enhance the traveller experience as they contribute to more liveable neighbourhoods and communities by creating public spaces that encourage social interaction, promote active transportation and healthy living.

## 7. Conclusion

The Region continues to invest significant resources in the expansion and maintenance of Regional road and transit system improvements, with a number of large projects underway that will be advanced or fully delivered during 2019. As urbanization continues, traffic volumes rise and more transit options are added, Transportation Services will continue to look for ways to serve travellers with a range of travel options to maximize road network capacity, while ensuring the Region's assets are properly maintained in ways that are financially sustainable.

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For more information on this report, please contact Salim Alibhai, Director of Capital Planning and Delivery, at 1-877-464-9675 ext. 75229. Accessible formats or communication supports are available upon request.

Recommended by: **Paul Jankowski**  
Commissioner of Transportation Services

Approved for Submission: **Bruce Macgregor**  
Chief Administrative Officer

March 22, 2019  
Attachments (6)  
9087108

# 2019 Growth and Asset Management Programs Construction Map

## Construction

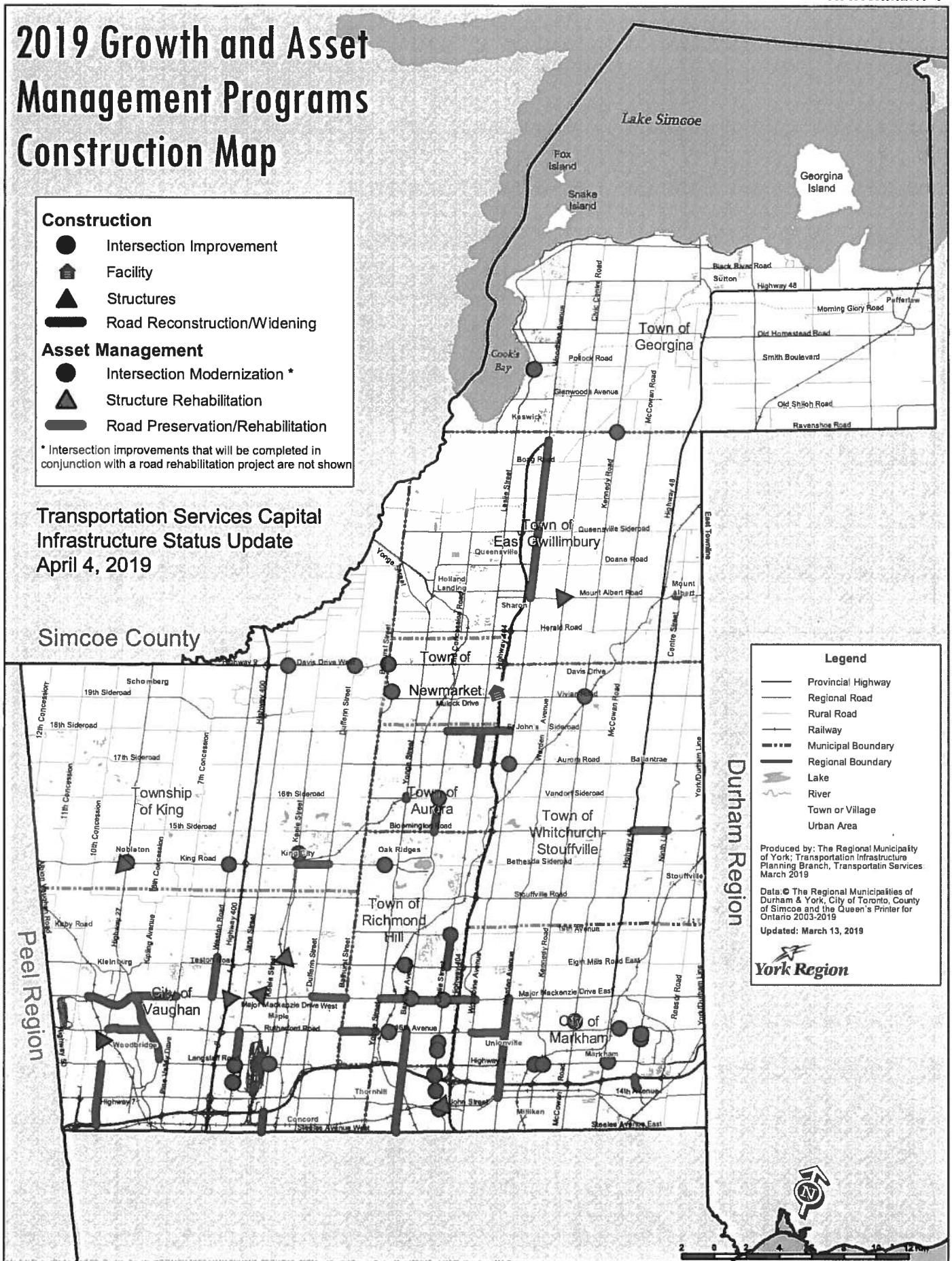
- Intersection Improvement
- 🏠 Facility
- ▲ Structures
- Road Reconstruction/Widening

## Asset Management

- Intersection Modernization \*
- ▲ Structure Rehabilitation
- Road Preservation/Rehabilitation

\* Intersection improvements that will be completed in conjunction with a road rehabilitation project are not shown

Transportation Services Capital Infrastructure Status Update  
April 4, 2019



## Legend

- Provincial Highway
- Regional Road
- Rural Road
- Railway
- - - Municipal Boundary
- - - Regional Boundary
- 🌊 Lake
- 🌊 River
- 🏘 Town or Village
- 🏙 Urban Area

Produced by: The Regional Municipality of York; Transportation Infrastructure Planning Branch, Transportation Services March 2019

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Updated: March 13, 2019

**York Region**

# 2019 Growth Program Pre-Construction Map

## Detailed Design

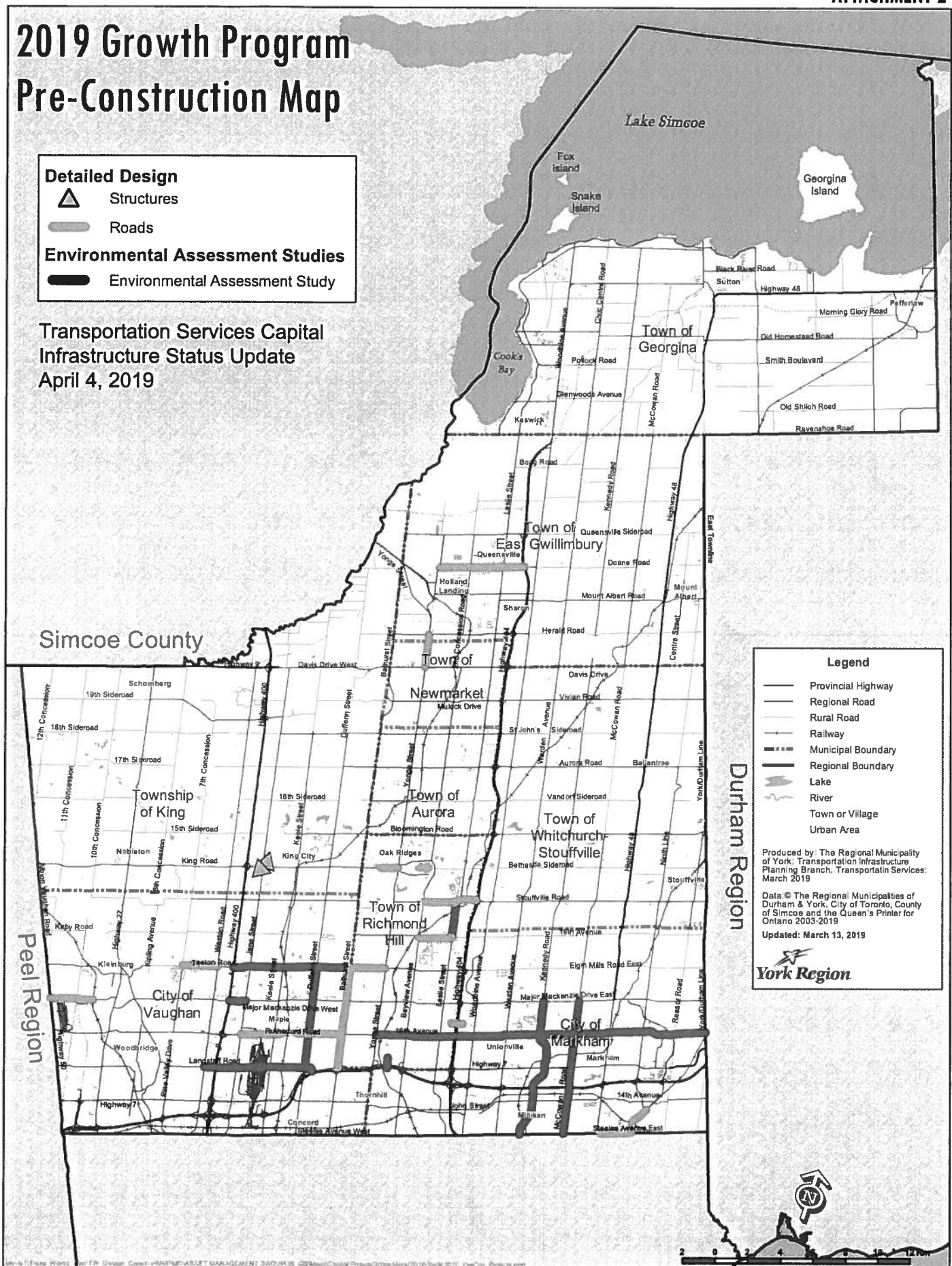
△ Structures

— Roads

## Environmental Assessment Studies

— Environmental Assessment Study

Transportation Services Capital  
Infrastructure Status Update  
April 4, 2019



## Transportation Services Capital Infrastructure Status Update Summary of Current Projects

Committee of the Whole  
Transportation Services  
April 4, 2019

### GROWTH PROGRAM - CONSTRUCTION

#### Roads - Major Capital – Construction - 19 Projects

Project Location	Municipality	Total Project Cost	Construction Completion
<b>Continuing Construction – 10 Contracts</b>			
Bathurst Street and Davis Drive Intersection Improvements	Town of Newmarket/ Township of King	\$6.8M	2019
Central District Snow Management Facility, Harry Walker Parkway	Town of Newmarket	\$5.1M	2019
Highway 7 Intersection Improvements, at Main Street (Unionville) and at Kennedy Road	City of Markham	\$2.1M	2019
Jane Street Intersection Improvements, at Pennsylvania Avenue/MacIntosh Boulevard and at Langstaff Road	City of Vaughan	\$1.8M	2019
King Road and Highway 27 Intersection Improvements	Township of King	\$6.5M	2019
Leslie Street and 19 <sup>th</sup> Avenue Intersection Improvements	Town of Richmond Hill	\$6.2M	2019
Major Mackenzie Drive Widening, from CPR Tracks to Islington Avenue	City of Vaughan	\$107M	2021
Mount Albert Road at Warden Avenue, Retaining Wall	Town of East Gwillimbury	\$1.8M	2019
Leslie Street Widening, from Don Hillock Drive to Broughton Lane	Town of Aurora	\$31.4M	2019
St. John's Sideroad Widening, from Bayview Avenue to Woodbine Avenue	Town of Aurora/Town of Whitchurch-Stouffville	\$43.2M	2019
<b>New Construction – 9 Contracts</b>			
Bayview Avenue, Lake-to-Lake Cycling Route, from Bloomington Road to Vandorf Sideroad	Town of Aurora	\$1.3M	2019
Highway 27 Canadian Pacific Railway Bridge Replacement	City of Vaughan	\$23M	2022

Project Location	Municipality	Total Project Cost	Construction Completion
Keele Street Widening, Steeles Avenue to Highway 407	City of Vaughan	\$40M	2021
King Road at Weston Road Intersection Improvements	Township of King	\$5.9M	2020
Leslie Street Widening, from Elgin Mills Road to 19 <sup>th</sup> Avenue	Town of Richmond Hill	\$17.1M	2020
Leslie Street Intersection Improvements, at West/East Commerce Valley Drive, at Green Lane/Summerdale Drive and at John Street	City of Markham	\$3.4M	2019
Major Mackenzie Drive Widening, from Islington Avenue to Pine Valley Drive	City of Vaughan	\$54.9M	2021
Major Mackenzie Drive Culvert Replacement, east of McNaughton Road	City of Vaughan	\$5.5M	2019
Yonge Street, north of Industrial Parkway	Town of Aurora	\$4.8M	2019

### Transit – Construction – Projects

Project Name	Municipality	Total Project Cost	Construction Completion
<b>Construction – 4 Contracts</b>			
Expansion and Renovation of North Operations, Maintenance and Storage Facility – 18110 Yonge St.	Town of Newmarket/ Town of East Gwillimbury	\$35.5M	2019
Major Mackenzie West Terminal, opposite Mackenzie Vaughan Hospital	City of Vaughan	\$8.5M	2020
Transit Shelter, Concrete Platform and Bus Stop Sign Expansion	Various	\$0.4M	2019
Viva Purple Expansion – four new stations on Highway 7, Main Street (Unionville) and Kennedy Road	City of Markham	\$0.6M	2019

## ASSET MANAGEMENT PROGRAM - CONSTRUCTION

### Roads - Rehabilitation/Preservation - 21 Projects

Project Location	Municipality	Total Project Cost
Crack Sealing	Various Locations	\$0.7M
Grind and Pave	Various Locations	\$1.8M
Road Rehabilitation		
Bayview Avenue, Bloomington Road to Vandorf Sideroad	Town of Aurora	\$31.9M
Bayview Avenue, 30m north of Steeles Avenue to 45m south of 16 <sup>th</sup> Avenue	Town of Richmond Hill/ City of Markham	
Bloomington Road, Highway 48 to Ninth Line	Town of Whitchurch-Stouffville	
Carrville Road, 50m east of Bathurst Street to 37m west of Yonge Street	City of Richmond Hill	
Highway 27, 120m south of Toronto RV Road to 45m south of Langstaff Road	City of Vaughan	
Major Mackenzie Drive (Intersections Only), Bayview Avenue and Leslie Street	City of Richmond Hill	
Major Mackenzie Drive, 45m west of Dufferin Street to 140m west of Bathurst Street	City of Vaughan	
Rutherford Road, 100m east of Highway 27 to 65m west of Islington Avenue	City of Vaughan	
Warden Avenue, 50m north of 14 <sup>th</sup> Avenue to 45m south of 16 <sup>th</sup> Avenue	City of Markham	
Weston Road, 35m north of Major Mackenzie Drive to 380m north of Teston Road	City of Vaughan	
Woodbine Avenue, Mount Albert Road to Highway 404	Town of East Gwillimbury	
Road Preservation		
16 <sup>th</sup> Avenue, Woodbine Avenue to Warden Avenue	City of Markham	\$3.9M



Project Location	Municipality	Total Project Cost
Islington Avenue, Langstaff Road to Major Mackenzie Drive	City of Vaughan	
Jane Street, Langstaff Road to Rutherford Road	City of Vaughan	
King Road, Keele Street to Dufferin Street	Township of King	
Major Mackenzie Drive, Yonge Street to Woodbine Avenue	Town of Richmond Hill/ City of Markham	
Mount Albert Road, 150 metre section west of Centre Street	Town of East Gwillimbury	
Ninth Line, Copper Creek Drive to Highway 407	City of Markham	
Warden Avenue, 16 <sup>th</sup> Avenue to Major Mackenzie Drive	City of Markham	

#### Roads - Structure Rehabilitation – 4 Projects

Project Location	Municipality	Total Project Cost
Leslie Street at CN Rail, 160m north of John Street - Substructure Work	City of Markham	\$0.8M
Keele Street Rail Bridge, 310m north of Teston Road	City of Vaughan	\$2.4M
King Road Culvert, 300m west of Highway 27	Township of King	\$0.1M
Major Mackenzie Drive Culvert, east of Highway 400	City of Vaughan/Ministry of Transportation	\$0.6M

#### Roads - Intersection Improvements – 56 Projects

Project Location	Municipality	Total Project Cost
16th Avenue and Berwick Crescent	Town of Richmond Hill	\$130K
16th Avenue and Williamson Road	City of Markham	\$165K
Bathurst Street and Clearmeadow Boulevard	Town of Newmarket	\$165K
Bayview Avenue and Vandorf Sideroad	Town of Aurora	\$275K

Project Location	Municipality	Total Project Cost
Davis Drive West and Dufferin Street	Township of King	\$35K
Davis Drive West and Jane Street	Township of King	\$220K
Elgin Mills Road and Edward Avenue	Town of Richmond Hill	\$130K
Highway 7 and Albert Street / Cosburn Road	City of Markham	\$300K
Keele Street and East Humber Drive	Township of King	\$35K
Keele Street and Langstaff Road	City of Vaughan	\$330K
Kennedy Road and Ravenshoe Road	Town of East Gwillimbury/ Town of Georgina	\$35K
Kennedy Road and Vivian Road	Town of Whitchurch-Stouffville	\$35K
King Road and Parker Avenue	Town of Richmond Hill	\$60K
Leslie Street and East/West Beaver Creek Road	Town of Richmond Hill	\$330K
Leslie Street and East/West Wilmot Street	Town of Richmond Hill	\$330K
McCowan Road and Wilfred Murison Avenue / James Parrott Avenue	City of Markham	\$165K
Ninth Line and Fincham Avenue	City of Markham	\$400K
Ninth Line and Tiers Gate / White's Hill Avenue	City of Markham	\$600K
The Queensway South and Richmond Park Drive	Town of Georgina	\$200K
Woodbine Avenue and Aurora Road	Town of Whitchurch-Stouffville	\$200K
Illumination (~15 locations)	Various Locations	\$250K
Bayview Avenue and Proctor Avenue*	City of Markham	\$1.76M
Bayview Avenue and Hunt Club Court/Laureleaf Road*		
Bayview Avenue and John Street*		
Bayview Avenue and Green Lane/Shouldice Hospital*		
Bayview Avenue and Romfield Circuit South/Willowbrook Road*		
Bayview Avenue and Dunsinane Drive*		

Project Location	Municipality	Total Project Cost
Bayview Avenue and Romfield Circuit North/Sycamore Drive*	Town of Richmond Hill	\$880K
Bayview Avenue and Langstaff Road East*		
Bayview Avenue and Creswick Drive/Highway 7 Ramp*		
Bayview Avenue and High Tech Road*		
Bayview Avenue and Bantry Avenue/Briggs Avenue*		
Bayview Avenue and Blackmore Avenue/Springbrook Drive*		
Bayview Avenue and Vandorf Sideroad*	Town of Aurora	\$220K
Bloomington Road and Ninth Line*	Town of Whitchurch-Stouffville	\$220K
Carrville Road and Avenue Road*	Town of Richmond Hill	\$220K
Highway 27 and Royal Gate Boulevard*	City of Vaughan	\$660K
Highway 27 and Ashbridge Circle/Zenway Drive*		
Highway 27 and Medallion Boulevard/Milani Boulevard*		
Major Mackenzie Drive East and Bayview Avenue*	Town of Richmond Hill	\$1.10M
Major Mackenzie Drive West and Leslie Street*		
Major Mackenzie Drive West and Dufferin Street*		
Major Mackenzie Drive West and Sir Benson Drive*		
Major Mackenzie Drive West and Ilan Ramon Boulevard*		
Rutherford Road and Napa Valley Drive/Vaughan Mills Road*	City of Vaughan	\$660K
Rutherford Road and Forest Fountain Drive*		
Rutherford Road and Clarence Street*		
Warden Avenue and Markham Town Square Plaza Entrance*	City of Markham	\$1.32M
Warden Avenue and Apple Creek Boulevard/Glencove Drive*		
Warden Avenue and Baycliffe Road/Carlton Road*		
Warden Avenue and 16th Avenue*		
Warden Avenue and 14th Avenue/Alden Road*		
Warden Avenue and Clegg Road*		

Project Location	Municipality	Total Project Cost
Weston Road and Canada Drive*	City of Vaughan	\$220K
Woodbine Avenue and Mount Albert Road*	Town of East Gwillimbury	\$440K
Woodbine Avenue and Queensville Sideroad*		

\*Traffic Signal Rebuild in conjunction with Road Rehabilitation Project

### **Transit – Ongoing Rehabilitation and Preventative Maintenance**

Project Name	Total Project Cost
Bus Shelter, Concrete Platform, and Bus Stop Sign Replacement	\$1.4M
Transit Terminal Rehabilitation – Promenade Terminal and Bernard Terminal	\$0.3M
Operations, Maintenance, and Storage Facility Rehabilitation – Various locations	\$1.2M
Transit Fleet Mid-Life Overhaul – Asset Life Extension (37 Conventional Buses)	\$9.3M
Transit Fleet Retirement and Replacement – Purchase of 8 Conventional Buses, 7 Viva Buses and 6 Electric Buses	\$20.4M

## GROWTH PROGRAM – PRE-CONSTRUCTION

### Roads – Environmental Assessments – 10 Studies

Project Location	Municipality
<b>Continuing Environmental Assessments – 8 Studies</b>	
16 <sup>th</sup> Avenue, Yonge Street to Woodbine Avenue	Town of Richmond Hill/City of Markham
16th Avenue, from Woodbine Avenue to York-Durham Line	City of Markham
Dufferin Street, from Langstaff Road to Teston Road	City of Vaughan
Kennedy Road, from Steeles Avenue to Major Mackenzie Drive	City of Markham
Langstaff Road, from Weston Road to Highway 7	City of Vaughan
Leslie Street, from 19th Avenue to Stouffville Road (Environmental Assessment Addendum)	Town of Richmond Hill
Major Mackenzie Drive, from Highway 400 to Jane Street	City of Vaughan
McCowan Road, from Steeles Avenue to Major Mackenzie Drive	City of Markham
<b>New Environmental Assessments – 2 Studies</b>	
Red Cedar Avenue/Cedar Avenue Extension, from Langstaff Road to High Tech Road	Town of Richmond Hill/City of Markham
Teston Road, from Highway 400 to Bathurst Street (Individual Environmental Assessment)	City of Vaughan

### Roads – Detailed Design – 16 Projects

Project Location	Municipality
<b>Continuing Detailed Design – 14 Projects</b>	
19 <sup>th</sup> Avenue, Bayview Avenue to Leslie Street	Town of Richmond Hill
Bathurst Street, from north of Highway 7 to Elgin Mills Road	City of Vaughan/ Town of Richmond Hill

<b>Project Location</b>	<b>Municipality</b>
Doane Road, from Yonge Street to Highway 404	Town of East Gwillimbury
East Humber River Bridge, Jane Street north of King Road	Township of King
King Horne Bridge, King Road east of Highway 400	Township of King
Elgin Mills Road, from Bathurst Street to Yonge Street	Town of Richmond Hill
King Road, from Bond Crescent to Yonge Street	Town of Richmond Hill
Major Mackenzie Drive, from Highway 50 to Canadian Pacific Railway	City of Vaughan/Peel Region
Mid-Block Crossing, Highway 404 north of 16th Avenue	Town of Richmond Hill/ City of Markham
Rutherford Road, from Jane Street to Westburne Drive	City of Vaughan
Rutherford Road, from Peter Rupert Avenue to Bathurst Street	City of Vaughan
Steeles Avenue, from Tapscott Road to Donald Cousens Parkway	City of Markham/City of Toronto
Teston Road, from Pine Valley Drive to Weston Road	City of Vaughan
Yonge Street, from Davis Drive to Green Lane	Town of Newmarket/ Town of East Gwillimbury
<b>New Detailed Design – 2 Projects</b>	
Ninth Line, Steeles Avenue to Box Grove By-Pass	City of Markham
Stouffville Road, Bayview Avenue to Highway 404, including jog elimination at Leslie Street	Town of Richmond Hill

**Transit –Design – 1 Project**

Project Location	Municipality	Total Project Cost	Construction Completion
<b>New Design – 1 Project</b>			
55 Orlando Garage Expansion	Town of Richmond Hill	\$65M	2022

**Transit – Fleet Procurement**

Project Name	Total Project Cost
Transit Fleet Expansion - Purchase of 3 Viva Buses and 2 Mobility Buses	\$4.1M

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## Transportation Services Capital Infrastructure Status Update Municipal Streetscape Partnership Program Summary

Committee of the Whole  
Transportation Services  
April 4, 2019

### Funding Approved in 2018

In 2018, funding for the following projects was approved under the Municipal Streetscape Partnership Program:

Applicant	Project	Total Project Cost	Regional Contribution
City of Vaughan	Islington Avenue and Major Mackenzie Drive	\$295K	\$97K
City of Vaughan	Centre Street (Bathurst Street-Dufferin Street)	\$228K	\$114K
Township of King	King Road (2585 King Road-Dufferin Street)	\$2.32M	\$765K
City of Markham	Warden Avenue & Highway 7 Civic Gateway	\$239K	\$79K

### Construction Completed in 2018

In 2018, construction was completed on the following projects under the Municipal Streetscape Partnership Program:

Applicant	Project	Total Project Cost	Regional Contribution
Town of Georgina	Dalton Road Crosswalks	\$252K	\$126K

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## Transportation Services Capital Infrastructure Status Update Pedestrian and Cycling Municipal Partnership Program Summary

Committee of the Whole  
Transportation Services  
April 4, 2019

### Funding Approved in 2018

In 2018, funding for the following projects was approved under the Pedestrian and Cycling Municipal Partnership Program:

Applicant	Project	Total Project Cost	Regional Contribution
Township of King	Multi-use path along King Road	\$628K	\$175K
Town of Newmarket	Multi-use path along Davis Drive and Bathurst Street	\$678K	\$75K
City of Vaughan	Multi-use path along McNaughton Road	\$619K	\$250K

### Construction Completed in 2018

In 2018, construction was completed on the following project under the Pedestrian and Cycling Municipal Partnership Program:

Applicant	Project	Total Project Cost	Regional Contribution
City of Vaughan	Phase 2: Bicycle route network within Vaughan (pavement markings and signage)	\$19K	\$9.5K

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## Transportation Services Capital Infrastructure Status Update Summary of 2018 Accomplishments

Committee of the Whole  
Transportation Services  
April 4, 2019

### GROWTH PROGRAM

#### Roads - Major Capital – Construction - 6 Projects Completed

Project	Municipality	Total Project Cost
19th Avenue Widening, from Linda Margaret Crescent to Bayview Avenue	Town of Richmond Hill	\$58.8M
Bayview Avenue Widening, from Elgin Mills Road to Stouffville Road		
Highway 404 Midblock Crossing, north of Highway 7 and northbound off-ramp extension	City of Markham/Town of Richmond Hill	\$58.5M
Leslie Street, Lake-to-Lake Cycling Route, from Steeles Avenue to Highway 7	City of Markham	\$4.7M
Major Mackenzie Drive, from Donald Cousens Parkway to Ninth Line	City of Markham	\$1.1M
Southeast District Road Maintenance Facility, Warden Avenue (sheds and site works only)	City of Markham	\$1.6M

#### Roads – Environmental Assessments – 3 Studies Completed

Project Location	Municipality
Highway 404 Midblock Crossing, north of Major Mackenzie Drive	City of Markham/Town of Richmond Hill
Major Mackenzie Drive, from McNaughton Road to Keele Street (Operational Improvements)	City of Vaughan
Teston Road, from Highway 400 to Bathurst Street (Individual Environmental Assessment) – Terms of Reference	City of Vaughan

### Transit – Construction – 2 Projects Completed

Project	Municipality	Total Project Cost
Major Mackenzie Drive East Parking Facility	Town of Richmond Hill	\$1.3M
New concrete pads, shelters, bus stop signs and posts at various locations	Various	\$1.6M

### Transit – Fleet Procurement

Project	Total Project Cost
Transit Fleet Expansion – Purchased 5 conventional buses and 2 Mobility Plus buses	\$3.3M

## ASSET MANAGEMENT PROGRAM

### Roads - Rehabilitation/Preservation - 15 Projects Completed

Project Location	Municipality	Total Project Cost
Crack Sealing	Various Locations	\$0.4M
Grind and Pave	Various Locations	\$1.5M
<b>Road Rehabilitation</b>		
14th Avenue, 40m west of Ninth Line to 295m east of Ninth Line	City of Markham	\$0.2M
Bayview Avenue, 50m north of Major Mackenzie Drive to 50m north of Elgin Mills Road	Town of Richmond Hill	\$1.7M
Green Lane, 550m east of Bathurst Street to 390m east of Leslie Street	Town of East Gwillimbury	\$1.8M
Rutherford Road, 230m east of Islington Avenue to 100m east of Pine Valley Drive	City of Vaughan	\$1.8M
Ninth Line, 30m north of Steeles Avenue to Donald Cousens Parkway	City of Markham	\$0.3M

Project Location	Municipality	Total Project Cost
Yonge Street, 95m south of John Street to 135m south of Langstaff Road	City of Vaughan/City of Markham	\$2.4M
Yonge Street, 825m south of St John's Sideroad to 25m north of St John's Sideroad	Town of Aurora	\$0.8M
<b>Road Preservation</b>		
15th Sideroad from Keele Street to Bathurst Street	Township of King	\$0.5M
Highway 7, Yonge Street to Bayview Avenue	City of Markham	\$0.6 M
Keele Street, 15m north of Major Mackenzie Drive to 220m north of Teston Road	City of Vaughan	\$0.6M
Yonge Street, 370m north of Bloomington Road to 84m south of Industrial Parkway South	Town of Aurora	\$0.4M

#### **Roads - Structure Rehabilitation – 4 Projects Completed**

Project Location	Municipality	Total Project Cost
East Humber River Bridge, Jane Street north of King Road – Interim Repair	Township of King	\$155K
King Horne Bridge, King Road east of Highway 400 – Interim Repair	Township of King	\$100K
Major Mackenzie Drive Culvert, east of McNaughton Road – Interim Repair	City of Vaughan	\$175K
Warden Avenue Bridge, 1.95km north of Herald Road - Rehabilitation	Town of East Gwillimbury	\$655K

#### **Roads - Intersection Improvements – 24 Projects Completed**

Project Location	Municipality	Total Project Cost
Bloomington Road and Ninth Line	Town of Whitchurch-Stouffville	\$220K

Project Location	Municipality	Total Project Cost
Don Mills Road and Simonston Boulevard	City of Markham	\$305K
Dufferin Street and Country Day School	Township of King	\$225K
Highway 27 and King-Vaughan Road	City of Vaughan	\$175K
Weston Road and 17th Sideroad	Township of King	
Jane Street and Avro Road	City of Vaughan	\$395K
Keele Street and Cromwell Road/Fieldgate Drive	City of Vaughan	\$280K
King Road and Greenside Drive	Township of King	\$460K
Teston Road and St. Joan of Arc Avenue	City of Vaughan	
Weston Road and King-Vaughan Road	City of Vaughan	
Major Mackenzie Drive and Mingay Avenue	City of Markham	\$170K
Mount Albert Road and Centre Street	Town of East Gwillimbury	\$490K
Mulock Drive at Newmarket High School	Town of Newmarket	\$120K
Green Lane and GO Station*	Town of Newmarket	\$75K
Rutherford Road and Emily Carr Secondary School*	City of Vaughan	\$125K
Bayview Avenue and Centre Street/Farmstead Road*	Town of Richmond Hill	\$375K
Bayview Avenue and Crosby Avenue/Redstone Road*		
Bayview Avenue and Windhurst Gate/Frank Endean Road*		
Bayview Avenue and Stone Road (north) *	Town of Aurora	\$85K
Yonge Street and Uplands Avenue*	City of Markham	\$560K
Yonge Street and Centre Street*		
Yonge Street and John Street*		
Yonge Street and St. Andrew's College*	Town of Aurora	\$130K
Yonge Street and St. John's Sideroad*		

\*Traffic Signal Rebuild in conjunction with Road Rehabilitation Project

## Transit – Ongoing Rehabilitation and Preventative Maintenance

Project Location	Municipality	Total Project Cost
Major Mid-life Structural Refurbishing and Mechanical Overhaul – 26 conventional buses and various structural rehabilitation on Viva 40 foot buses	N/A	\$6.5M
Transit Fleet Replacement – Purchased 21 conventional buses and 18 Mobility Plus buses	N/A	\$15.3M
Replaced concrete pads, shelters and bus stop signs and posts at various locations	Various	\$1.2M
Operations, Maintenance, and Storage Facilities Rehabilitation – 55 Orlando Ave, 8300 Keele Street	N/A	\$0.3M

## EMERGENCY REPAIRS

### Roads – Emergency Repair Work – 7 Projects Completed

Project	Municipality	Cost
Highway 11 at Morning Sideroad – Slope repair	Town of East Gwillimbury	\$360K
Mount Albert Road, west of Warden Avenue – Slope repair	Town of East Gwillimbury	\$25K
Pine Valley Drive, south of Alderson Avenue – Sink hole repair	City of Vaughan	\$35K
Ravenshoe Road at Canal Street – Culvert repair	Town of Georgina	\$60K
Warden Avenue, south of Queensville Sideroad – Slope repair	Town of East Gwillimbury	\$15K
Yonge Street at Holland Landing Road – Slope repair and storm sewer replacement	Town of East Gwillimbury	\$500K
Yonge Street at Silverline Helicopters – Subdrain installation, slope and boulevard repair	Town of East Gwillimbury	\$325K

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