

Clause 1 in Report No. 15 of Committee of the Whole was adopted, without amendment, by the Council of The Regional Municipality of York at its meeting held on October 15, 2015.

1

Roads Capital Construction Program Update

Committee of the Whole recommends:

1. Receipt of the presentation by Salim Alibhai, Director, Capital Planning and Delivery.
2. Adoption of the following recommendation, as amended, in the report dated September 21, 2015 from the Commissioner of Transportation Services:
 1. This report be circulated to the local municipalities.

1. Recommendation

It is recommended that this report be received for information.

2. Purpose

This report provides an update on the status of the 2015 10-Year Roads Capital Construction Program.

3. Background

The Region intends to invest \$1.4B in the maintenance and expansion of Regional road infrastructure

The 2015 10-Year Roads Capital Construction Program (the Program) has a total budget of \$1.4B, and includes growth-related projects worth approximately \$1.2B, and maintenance/renewal projects with a value of \$270M.

The 2015 Program budget includes \$112M for growth and maintenance/renewal projects located throughout the Region. Attachment 1 shows the locations of current construction projects. A summary of all projects currently being undertaken is shown in Attachment 2.

Capital Planning and Delivery Branch focuses on the timely delivery of projects

The primary focus of the Capital Planning and Delivery Branch is the timely delivery of projects included in the approved 10-Year Roads Capital Construction Program, with the secondary focus on delivering maintenance/ renewal projects to maintain our road infrastructure in good condition.

2015 has been a busy and successful year, with 31 contracts tendered for major and minor projects. All planned growth projects with construction commencing in 2015 have been tendered, and tenders for 2016 projects are on track to be delivered as planned.

This report describes the status of current projects and plans for the remainder of 2015 and through 2016.

4. Analysis and Options

The 10-Year Roads Capital Construction Program focuses on growth and state of good repair projects

The Program includes two general categories of projects. The first category, growth projects, focuses on the expansion of the Regional road network infrastructure and creation of new infrastructure. The second category, state of good repair, focuses on the maintenance and renewal of existing transportation infrastructure. The Program is robust, adding capacity to the Region's road network and maintaining our current infrastructure.

The Program budget has increased from \$467M over the 2011-2015 term of Council to over \$624M budgeted for the 2015-2018 term of Council. This represents a 33 per cent increase in the program or an average increase of \$40M a year over this four year term of Council.

Delivery of growth projects takes eight to ten years from concept to end of construction

Typical growth-related road improvement projects take eight to ten years to complete. Before a project can proceed to construction, the projects go through planning, environmental assessment, detailed design, property acquisition and utility relocations, with the duration of each phase depending on the scope and complexity of the project being undertaken. Staff are therefore working on many projects planned for future years as well as projects currently under construction.



State of Good Repair Program focuses on the maintenance and renewal of existing infrastructure

The State of Good Repair Program includes pavement repair/preservation/rehabilitation projects, bridge/culvert rehabilitations or replacements, roadside safety device (i.e. guiderail) improvements, and intersection improvements such as the installation or modification of traffic control signals, adding zebra markings at crosswalks, and upgrades to intersections to bring them into compliance with the new Access for Ontarians with Disabilities Act (AODA) requirements.

State of Good Repair Program projects have a shorter delivery period

State of Good Repair Program projects are generally smaller in scope and less complex than growth projects, and therefore are delivered much faster. Most projects take two years to complete, with planning, design and approvals being completed in year one, and tendering and construction occurring in year two.

The Region continues to increase its investment in the State of Good Repair Program

The Region currently invests \$25M per year to maintain the overall condition of our road infrastructure and corresponding service levels for our communities. Numerous maintenance and renewal projects were tendered and constructed in 2015 as shown in Attachments 1 and 2.

In order to maintain our roads, traffic signals, and bridges and culverts at their current overall condition, the Region’s investment in road improvement projects will need to increase over time. Progressively increasing the Region’s budget for renewal projects will enable vital transportation assets to maintain to current service levels to minimize the overall cost of maintaining road infrastructure over its life cycle.

Link to key Council-approved plans

Improving the Region's transportation infrastructure is a key priority area for the 2015-2018 term of Council. Council has allocated significant resources for the expansion and maintenance/renewal of Regional road infrastructure.

The 2015 10-Year Roads Capital Construction Program aligns with the 2015-2018 Strategic Plan priority area to manage environmentally sustainable growth. Implementation of the Program is key to the Region achieving the strategic objectives of managing traffic congestion and optimizing critical infrastructure systems capacity.

5. Financial Implications

The 2015 Roads Capital Construction Program budget is shown in Table 1.

Table 1
2015 and 2016 Capital Budget

| Purpose | 2015 (M) | 2016 (M)* |
|--|--------------|--------------|
| Expansion/Growth related road construction (long-term) | \$87 | \$135 |
| State of Good Repair | | |
| - Roads | 20 | 21 |
| - Structures | 3 | 3 |
| Intersection Improvements (near-term) | 2 | 2 |
| Total | \$112 | \$161 |

* 2016 budget (from approved 2015 10-Year Plan)

The 2015 10-Year Roads Capital Construction Program is on track to exceed the delivery target of 90 per cent

The 2015 10-Year Roads Capital Construction Program is on track to exceed the 90 per cent delivery target of the 2015 budget. Meeting the budget target is an important indicator that project milestones are being achieved.

With Council's increased focus on improving the Region's transportation infrastructure, the 2016 capital budget is planned to rise from \$112M in 2015 to \$161M in 2016 as shown in Table 1, subject to Council approval. This significant increase reflects the amount of construction work that has been committed through projects that have been tendered in 2015, and those to be tendered in 2016.

6. Local Municipal Impact

Regional staff continue to work closely with staff from local municipalities to ensure their concerns are addressed and infrastructure needs are included as part of Region projects. Infrastructure such as watermains and sewers, streetlights, sidewalks and multi-use paths are routinely incorporated into Region construction contracts at the request of local municipalities. In 2015 and 2016, \$17M in local municipal infrastructure will be included in Regional projects.

The successful and timely delivery of key infrastructure is critical to meet the needs of our residents and businesses and to manage the impacts of growth throughout the Region.

7. Conclusion

The Region continues to invest significant resources in the expansion and maintenance of Regional road infrastructure, with a number of large projects underway that will be delivered in the 2015-2018 Council term.

The 2015 10-Year Roads Capital Construction Program is on track to exceed the delivery target of 90 per cent of the 2015 budget, and all 2015 construction projects are scheduled to be delivered as planned.

For more information on this report, please contact Salim Alibhai, Director, Capital Planning and Delivery at ext. 75229.

The Senior Management Group has reviewed this report.

September 21, 2015

Attachments (2)

#6344079

Accessible formats or communication supports are available upon request

2015 CURRENT PROJECT SUMMARY

Legend

Completed Growth Projects

— Road Widening

Growth Projects Under Construction

— Road Widening

● Intersection Improvements

Completed Maintenance/Renewal Projects

— Road Improvements

● Intersection Improvements

● Bridge/Culvert Rehabilitation

Pre-Construction Activities Underway

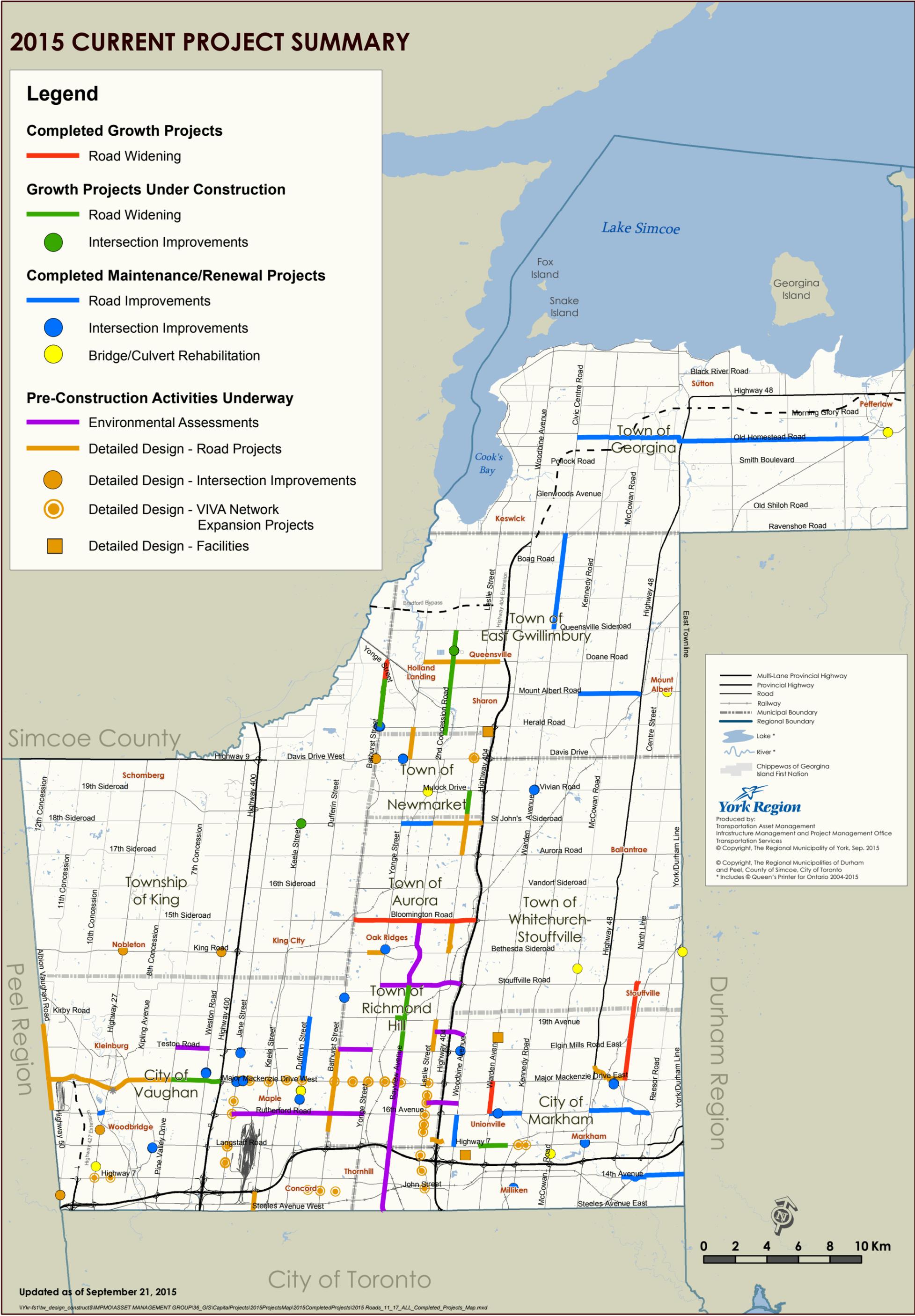
— Environmental Assessments

— Detailed Design - Road Projects

● Detailed Design - Intersection Improvements

○ Detailed Design - VIVA Network Expansion Projects

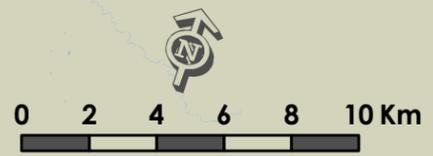
■ Detailed Design - Facilities



— Multi-Lane Provincial Highway
 — Provincial Highway
 — Road
 — Railway
 - - - Municipal Boundary
 - - - Regional Boundary
 Lake *
 River *
 Chippewas of Georgina Island First Nation

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Updated as of September 21, 2015

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Roads Capital Construction Program Update Current Projects Summary

Committee of the Whole
Transportation Services
October 1, 2015

The following growth-related road projects are under construction in 2015

Construction of the following major projects is currently underway and will be completed in 2015:

| Project Location | Municipality | Total Project Cost | Construction Completion |
|---|--|---------------------------|--------------------------------|
| Bloomington Road, Bathurst Street to Highway 404 | Town of Aurora and Town of Richmond Hill | \$36.2M | 2015 |
| Ninth Line, Major Mackenzie Drive to Rupert Avenue | Town of Whitchurch-Stouffville and City of Markham | \$38.7M | 2015 |
| Bathurst Street, 1 km north of Morning Sideroad to Highway 11 | Township of King and Town of East Gwillimbury | \$10.0M | 2015 |

Construction of the following major projects is underway and will continue beyond 2015:

| Project Location | Municipality | Total Project Cost | Construction Completion |
|--|--|---------------------------|--------------------------------|
| 2nd Concession/Main Street North, Bristol Road to Queensville Sideroad | Town of East Gwillimbury and Town of Newmarket | \$66.0M | 2016 |
| Leslie Street, Broughton Lane to Mulock Drive | Town of Newmarket | \$13.0M | 2016 |
| Roundabout at Keele Street and Lloydtown-Aurora Road | Township of King | \$4.4M | 2016 |
| Major Mackenzie Drive, Pine Valley Drive to Highway 400 | City of Vaughan | \$28.0M | 2016 |
| Highway 7, Town Centre Boulevard to Sciberras Road | City of Markham | \$39.2M | 2017 |
| Bathurst Street, Green Lane to 1 km north of Morning Sideroad | Town of East Gwillimbury and Township of King | \$19.9M | 2017 |

Roads Capital Construction Program Update
Current Projects Summary

| Project Location | Municipality | Total Project Cost | Construction Completion |
|--|-----------------------|---------------------------|--------------------------------|
| Bayview Avenue, Elgin Mills Road to Stouffville Road | Town of Richmond Hill | \$33.0M | 2017 |
| 19th Avenue, Linda Margaret Crescent to Bayview Avenue | Town of Richmond Hill | \$4.0M | 2017 |

Upcoming 2015 and 2016 construction tenders

The following projects are scheduled to be tendered in the fourth quarter of 2015 and in 2016:

| Project Location | Municipality | Total Project Cost | Construction Completion |
|---|---|---------------------------|--------------------------------|
| St. John's Sideroad, Bayview Avenue to Highway 404 | Town of Aurora | \$34.4M | 2017 |
| Leslie Street, Wellington Street to Broughton Lane | Town of Aurora | \$20.0M | 2018 |
| Highway 404 Mid-block Crossing north of Highway 7 and Northbound Off Ramp Extension | City of Markham and Town of Richmond Hill | \$65.0M | 2018 |
| Highway 50 at Gore Road | City of Vaughan and Region of Peel | \$1.8M | 2018 |
| Major Mackenzie Drive, CP Railway to Highway 27 | City of Vaughan | \$53.0M | 2018 |

Planning, environmental assessments and detailed design studies are also underway for a number of future projects

Environmental assessments are underway for the following projects:

| Project Location | Municipality |
|--|---|
| Bayview Avenue, Steeles Avenue to Elgin Mills Road | Town of Richmond Hill and City of Markham |
| Bayview Avenue, Stouffville Road to Bloomington Road | Town of Richmond Hill |
| Elgin Mills Road, Bathurst Street to Yonge Street | Town of Richmond Hill |

Roads Capital Construction Program Update
Current Projects Summary

| Project Location | Municipality |
|--|---|
| Rutherford Road/Carville Road, Jane Street to Yonge Street | City of Vaughan and Town of Richmond Hill |
| Stouffville Road, Yonge Street to Highway 404 | Town of Richmond Hill |
| Teston Road, Pine Valley Drive to Weston Road | City of Vaughan |
| Highway 404 Mid-block Crossing north of Elgin Mills Road | City of Markham and Town of Richmond Hill |
| Highway 404 Midblock Crossing north of 16th Avenue | City of Markham and Town of Richmond Hill |

Environmental assessments studies will commence for the following projects in 2016:

| Project Location | Municipality |
|--|---|
| 16th Avenue, Yonge Street to Reesor Road | City of Markham and Town of Richmond Hill |
| Langstaff Road, Weston Road to Highway 7 | City of Vaughan |
| Teston Road, Keele Street to Bathurst Street | City of Vaughan |

The following projects are in the detailed design stage:

| Project Location | Municipality | Total Project Cost | Planned Construction Start |
|--|---|---------------------------|-----------------------------------|
| Highway 27 – CP Bridge Replacement south of Rutherford Road | City of Vaughan | \$12.2M | 2017 |
| Major Mackenzie Drive, Highway 50 to Pine Valley Drive | City of Vaughan | \$95.6M | 2017 |
| vivaNext Expansion Program (Intersection Improvements): Highway 7/Clark Avenue/Davis Drive (Purple, Orange and Yellow Routes) | City of Vaughan, City of Markham, and Town of Newmarket | \$27.3M | 2017 |
| Jane Street/Major Mackenzie Drive (Silver Route) | City of Vaughan and Town of Richmond Hill | | 2017 |
| Major Mackenzie Drive/Leslie Street (Green Route) | Town of Richmond Hill and City of Markham | | 2017 |

Roads Capital Construction Program Update
Current Projects Summary

| Project Location | Municipality | Total Project Cost | Planned Construction Start |
|--|--|---------------------------|-----------------------------------|
| Major Intersection Improvements at: Bathurst Street and Davis Drive | Township of King and Town of Newmarket | \$11.9M | 2017 |
| King Road at Highway 27 | Township of King | | 2017 |
| King Road at Weston Road | Township of King | | 2018 |
| Donald Cousens Parkway Extension, Major Mackenzie Drive to Highway 48 | City of Markham | \$16.9M | 2018 |
| Major Mackenzie Drive, Donald Cousens Parkway to west of Ninth Line | City of Markham | \$2.6M | 2018 |
| Yonge Street, Davis Drive to Green Lane | Town of Newmarket and Town of East Gwillimbury | \$26.4M | 2018 |
| Keele Street, Steeles Avenue to Highway 407 | City of Vaughan | \$19.2M | 2018 |
| Bathurst Street, Highway 7 to Elgin Mills Road | City of Vaughan and Town of Richmond Hill | \$50.1M | 2019 |
| Leslie Street, Elgin Mills Road to 19 th Avenue | Town of Richmond Hill | \$12.0M | 2019 |
| Highway 50, Rutherford Road to Albion-Vaughan Road/Mayfield Road | City of Vaughan and Region of Peel | \$24.9M | 2020 |
| Doane Road, Yonge Street to Highway 404 | Town of East Gwillimbury | \$44.5M | 2024 |
| Leslie Street, Bethesda Sideroad to Bloomington Road | Town of Richmond Hill | \$14.9M | Beyond 2024 |

Roads Capital Construction Program Update
Current Projects Summary

State of Good Repair projects completed in 2015

In addition to growth-related road projects, many maintenance/ renewal capital projects were tendered and constructed in 2015.

Pavement preservation:

| Project Location | Municipality | Total Project Cost |
|--|--------------------------|---------------------------|
| Bathurst Street and Green Lane West intersection | Town of East Gwillimbury | \$0.2M |
| Mount Albert Road, Kennedy Road to Highway 48 | Town of East Gwillimbury | \$0.5M |
| Rutherford Road, CP Railway (440 m west of Highway 27) to west of Highway 27 | City of Vaughan | \$0.7M |
| St. John's Sideroad, Yonge Street to Bayview Avenue | Town of Aurora | |

Road rehabilitation:

| Project Location | Municipality | Total Project Cost |
|---|--------------------------|---------------------------|
| 14th Avenue, Ninth Line to York/Durham Line | City of Markham | \$0.9M |
| 16th Avenue, Highway 48 to Donald Cousens Parkway | City of Markham | \$1.8M |
| 16th Avenue, Warden Avenue to Kennedy Road | City of Markham | \$2.2M |
| Dufferin Street, north of Major Mackenzie Drive to Kirby Road | City of Vaughan | \$3.2M |
| Old Homestead Road, Warden Avenue to Station Road | Town of Georgina | \$2.2M |
| Warden Avenue, Queensville Sideroad to Ravenshoe Road | Town of East Gwillimbury | \$4.1M |
| Woodbine Avenue, Highway 7 to 16th Avenue | City of Markham | \$2.2M |

Roads Capital Construction Program Update
Current Projects Summary

Miscellaneous improvements in 2015:

| Project Location | Municipality | Total Project Cost |
|---|---------------------|---------------------------|
| Guiderail Improvements - 21 locations throughout the Region | Various | \$0.8M |
| Crack Sealing - 104 road sections and intersections throughout the Region | Various | \$0.4M |
| Road Patching - 185 locations throughout the Region | Various | \$3.6M |

Bridge and culvert rehabilitation projects completed in 2015:

| Project Location | Municipality | Total Project Cost |
|---|--------------------------------|---------------------------|
| Dufferin Street, 700 m south of Major Mackenzie Drive | City of Vaughan | \$0.8M |
| Highway 27, 700 m north of Highway 7 | City of Vaughan | \$0.1M |
| McCowan Road, 700 m north of Highway 407 | City of Markham | \$0.4M |
| McCowan Road, 1.0 km north of Stouffville Road | Town of Whitchurch-Stouffville | \$0.3M |
| Mount Albert Road, 600 m east of Centre Street | Town of East Gwillimbury | \$0.2M |
| Mulock Drive, 1.3 km east of Yonge Street | Town of Newmarket | \$0.2M |
| Pefferlaw Road, 1.6 km west of Lake Ridge Road | Town of Georgina | \$0.1M |
| York/Durham Line, 1.9 km north of Stouffville Road | Town of Whitchurch-Stouffville | \$0.1M |

Roads Capital Construction Program Update
 Current Projects Summary

Traffic control signal/intersection improvements completed in 2015

| Project Location | Municipality | Total Project Cost |
|---|---|---------------------------|
| Jane Street south of Major Mackenzie Drive | City of Vaughan | \$0.1M |
| Warden Avenue and Vivian Road | Town of Whitchurch-Stouffville | |
| Dufferin Street at Royal Crest Academy | City of Vaughan | |
| Jane Street at Ahmadiyya Baitul Islam Mosque | City of Vaughan | \$0.2M |
| Kennedy Road at Milliken Mills High School South Access | City of Markham | |
| Village Parkway/Country Estates Drive and 16th Avenue | City of Markham | |
| Donald Cousens Parkway and Delray Drive | City of Markham | \$0.3M |
| Elgin Mills Road and Duke of York/Prince Regent | City of Markham | |
| Bathurst Street and Tower Hill Road | City of Vaughan and Town of Richmond Hill | \$0.3M |
| Weston Rd and Chatfield Drive/Retreat Boulevard | City of Vaughan | |
| Davis Drive and Eagle Street | Town of Newmarket | \$0.4M |
| Islington Avenue and Hayhoe Lane | City of Vaughan | \$0.2M |
| Highway 7 and Main Street | City of Markham | \$0.3M |
| Major Mackenzie Drive at Melville Avenue | City of Vaughan | \$0.4M |
| Yonge Street at North Lake Road/Aubrey Avenue | Town of Richmond Hill | |
| School Zone Flashers – two locations | Township of King and Town of East Gwillimbury | \$0.1M |
| Flashing Beacons – two locations | Township of King and Town of East Gwillimbury | \$0.05M |

Roads Capital Construction Program Update
 Current Projects Summary

Zebra marking locations completed in 2015

| Project Location | Municipality | Total Project Cost |
|--|--------------------------|---------------------------|
| Dufferin Street at Dufferin Hill Drive/Apple Blossom Drive | City of Vaughan | \$0.1M |
| Woodbine Avenue at Church Street | Town of Georgina | |
| Green Lane East at Harry Walker Parkway | Town of East Gwillimbury | |
| Bayview Avenue at the Real Canadian Superstore | Town of Aurora | |
| Ninth Line at Tier's Gate/White's Hill Avenue | City of Markham | |
| Warden Avenue at Commercial Entrance north of Steeles | City of Markham | |
| Leslie Street at Elgin Street | Town of Newmarket | \$0.4M |
| Leslie Street at Gorham Street | Town of Newmarket | |
| Leslie Street at Leslie Valley Drive/Ringwell Drive | Town of Newmarket | |
| Leslie Street at Jacarandah Drive/Stellar Drive | Town of Newmarket | \$0.3M |
| Leslie Street at Srigley Street/Stackhouse Road | Town of Newmarket | |
| Leslie Street at Wayne Drive | Town of Newmarket | |

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