

June 28, 2019

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

Dear Ms. Kitteringham:

**Re: Lane Designations to Operate Rapidways in the Cities of Markham,  
Richmond Hill and Vaughan**

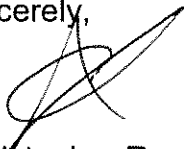
On June 27, 2019 Regional Council adopted the following recommendations:

1. The existing Lane Designation Bylaw No. 2009-23 be amended to designate newly-constructed bus rapidway lanes outlined in Table 2.
2. The Regional Clerk circulate this report to Clerks of the Cities of Markham, Richmond Hill and Vaughan, York Region Rapid Transit Corporation and Chief of York Regional Police.
3. The Regional Solicitor prepare the necessary bylaws.

The staff report is enclosed for your information.

Please contact Joseph Petrunaro at 1-877-464-9675 ext. 75220 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  
June 13, 2019

Report of the Commissioner of Transportation Services

## **Lane Designations to Operate Rapidways in the Cities of Markham, Richmond Hill and Vaughan**

### **1. Recommendations**

1. The existing Lane Designation Bylaw No. 2009-23 be amended to designate newly-constructed bus rapidway lanes outlined in Table 2.
2. The Regional Clerk circulate this report to Clerks of the Cities of Markham, Richmond Hill and Vaughan, York Region Rapid Transit Corporation and Chief of York Regional Police.
3. The Regional Solicitor prepare the necessary bylaws.

### **2. Summary**

This report seeks Council approval to designate lanes on Regional roads to operate bus rapid transit service.

Key Points:

- Viva service operates in exclusive dedicated lanes to provide efficient rapid transit service to citizens
- Rapidway lanes need to be designated to allow exclusive use for Viva bus rapid transit service in dedicated lanes

### **3. Background**

#### **Viva service operates in exclusive dedicated lanes to provide efficient rapid transit service to citizens**

Rapidway lanes are dedicated lanes for bus rapid transit service, which operate in the centre of the road, allowing Viva buses to move out of mixed traffic lanes, maximizing people-moving capacity and enabling people to get around York Region's busiest corridors more

efficiently. Rapidways are controlled with dedicated transit signals that typically operate concurrent with through traffic. These transit signals are enhanced with transit signal priority measures that assist buses in maintaining their schedules. Figure 1 is an image of a completed section of rapidway on Highway 7. Previously designated dedicated rapidway lanes are identified in Attachment 1.

**Figure 1**  
**Viva Service on Highway 7 Rapidway**



Highway 7, east rapidway looking west to Valleymede Station

Since rapidways are located in the centre lanes of the corridor, left turn movements must operate with their own separate signal phase or be restricted to ensure the safety of vehicles crossing the rapidway lanes. Given the width of the roadway, pedestrians may be required to cross in two phases, stopping on the landscaped median between them.

Due to physical and operational constraints, some sections of the rapidway are a partial rapidway with a single dedicated rapidway lane in only one direction, while some sections of the Viva bus rapid transit service continue to operate in mixed traffic.

**Completed rapidway sections have created seamless connections to Regional centres and additional sections are anticipated to be completed by the end of 2020**

The completed Viva rapidway along Highway 7 East has created seamless connections between the Richmond Hill Regional Centre and Markham Regional Centre. The completed Viva rapidway along Highway 7 West in the City of Vaughan connects to the Vaughan

Metropolitan Centre and the TTC subway. In the Town of Newmarket, the completed Viva rapidway along Davis Drive provides fast, reliable transit with connections to the Newmarket Regional Centre, Southlake Regional Health Centre and Highway 404.

YRRTC construction schedules (see Attachment 2) indicate remaining rapidway sections will be completed as follows:

- Highway 7 West rapidway in the City of Vaughan is anticipated to be completed in December 2019
- Yonge Street section of rapidway in the Town of Newmarket is anticipated to be completed in December 2019
- Yonge Street section of rapidway in the City of Richmond Hill is anticipated to be completed in December 2020

## 4. Analysis

### **Rapidway lanes need to be designated to allow exclusive use for Viva bus rapid transit service in dedicated lanes**

Rapidway lanes are designed for Viva bus rapid transit use. The intent of these dedicated lanes is to improve the person-moving capacity on Regional corridors. Amending the Lane Designation Bylaw will restrict the use of the rapidways to certain vehicle class types prescribed within the bylaw and are therefore enforceable in accordance with the Highway Traffic Act. Lane designation is required to ensure the rapidway is exclusively designated for bus rapid transit vehicles and will have provisions for use by emergency service vehicles responding to calls, as well as road maintenance vehicles.

Table 2 outlines the Regional road sections scheduled for implementation of rapidway lane designation. Attachment 3 is a map of the location.

**Table 2**  
**Regional Roads to be Designated for Rapidways**

| <b>Bus Rapid Transit Project</b> | <b>Portion of Highway</b>   | <b>Limit</b>   | <b>Class of Vehicle</b>  | <b>Times or Days</b>                         |
|----------------------------------|---|--|--|--|
| H2 East                          | Highway 7 (Y.R. 7)<br>Partial eastbound rapidway located in the centre lane         | Yonge Street<br>Connector (Y.R. 7) to<br>Bathurst Street<br>Connector (Y.R. 7) | Bus Rapid Transit Vehicles<br>Emergency Service Vehicles<br>Maintenance Vehicles | 24 hours, 7 days a week, effective July 2019 |
| H2 East                          | Bathurst Street Connector Road (Y.R. 7)<br>Full rapidway located in the centre lane | Highway 7 (Y.R. 7) to<br>Bathurst Street (Y.R. 38)                             | Bus Rapid Transit Vehicles<br>Emergency Service Vehicles<br>Maintenance Vehicles | 24 hours, 7 days a week, effective July 2019 |

## 5. Financial

Costs to install the required signs for implementation of the dedicated lanes referenced in this report are included in the approved York Region Rapid Transit Corporation project budget funded by Metrolinx.

Bus rapid transit corridors require specialized maintenance which includes snow removal, transit priority signals, landscaping and transit terminal maintenance. This section of rapidway along Highway 7 from Yonge Street Connector Road to Bathurst Street Connector Road is estimated to cost \$238,000.00 and is included in approved 2019 budget submission which includes the 2020 outlook year.

## 6. Local Impact

Local municipal staff has been informed of the recommendations contained within this report. Residents will be provided with improved rapid transit service offering more sustainable transportation options, including a more connected and efficient transportation network.

## 7. Conclusion

As construction of this portion of the H2E bus rapid transit project nears completion, it is necessary to implement lane designations to support safe and efficient transit and traffic operations along this rapidway corridor. Revisions to the Lane Designation Bylaw are required to support bus rapid transit service.

Staff recommends the sections of Regional roads outlined in this report be designated for the exclusive use of bus rapid transit vehicles and the turn restrictions outlined be implemented to support safe operations. Designation of these lanes will increase capacity on a busy corridor, benefit transit operations and support planned growth to better serve residents in York Region.

The Regional Solicitor is required to amend the schedules to the bylaws governing lane designations and the Regional Clerk notify the Cities of Markham, Richmond Hill and Vaughan, York Region Rapid Transit Corporation and York Regional Police of the amendments.

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For more information on this report, please contact Joseph Petrunaro at 1-877-464-9675 ext. 75220. 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

May 29, 2019  
Attachments (2)  
9070847





### Regional Roads Designated for Bus Rapid Transit Service

| Portion of Highway  | Limit  | Class of Vehicle           | Times or Days           |
|---|--|----------------------------|-------------------------|
| Highway 7 (Y.R. 7), two centre lanes of the highway as designated by lane markings    | East limit of Bayview Avenue (Y.R. 34) to the west limit of South Town Centre Boulevard  | Bus rapid transit vehicles | 24 hours, 7 days a week |
| Davis Drive (Y.R. 31), two centre lanes of the highway as designated by lane markings | From 200 metres west of the west limit of Yonge Street (Y.R. 1) to 150 metres east of the east limit of Roxborough Road/Patterson Street | Bus rapid transit vehicles | 24 hours, 7 days a week |
| Highway 7 (Y.R. 7), centre lane   | West limit of Bowes Road to the east limit of Jane Street (Y.R. 55)  | Bus rapid transit vehicles | 24 hours, 7 days a week |





**Legend**

- Rapid Transit Lane Designation - Both Directions
- Rapid Transit Lane Designation - One Direction
- Transit in Mixed Traffic - Both Directions
- Municipal Boundary
- Vivastation

**Highway 7 Rapidway (H2 East)**  
 Lane Designations to Operate Rapidways  
 in the Cities of Markham, Richmond Hill and Vaughan

0 150 300 600 900 1,200  
 Metres

**York Region**  
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