
DATE: November 12, 2010

REPORT TITLE: **LANE DESIGNATIONS ON REGIONAL ROAD 4 (DIXIE ROAD) AT REGIONAL ROAD 5 (DERRY ROAD) AND REGIONAL ROAD 7 (AIRPORT ROAD) AT REGIONAL ROAD 10 (BOVAIRD DRIVE EAST)/CASTLEMORE ROAD**
LANE RESTRICTIONS FOR HEAVY TRUCKS ON REGIONAL ROAD 7 (AIRPORT ROAD) AT REGIONAL ROAD 10 (BOVAIRD DRIVE EAST)/CASTLEMORE ROAD
CITY OF MISSISSAUGA, WARD 5
CITY OF BRAMPTON, WARDS 7 AND 10

FROM: Dan Labrecque, Commissioner of Public Works

RECOMMENDATION

That northbound, southbound, eastbound and westbound dual left turn lanes be designated at the intersection of Regional Road 4 (Dixie Road) at Regional Road 5 (Derry Road), in the City of Mississauga;

And further, that southbound dual left turn lanes be designated at the intersection of Regional Road 7 (Airport Road) at Regional Road 10 (Bovaird Drive East)/Castlemore Road, in the City of Brampton;

And further, that the first lane from the centre median of the northbound and southbound left turn lanes at the intersection of Regional Road 7 (Airport Road) at Regional Road 10 (Bovaird Drive East)/Castlemore Road, be restricted to heavy trucks, in the City of Brampton;

And further, that the necessary by-law be presented to Regional Council for enactment;

And further, that the Peel Regional Police be advised.

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REPORT HIGHLIGHTS

- Intersection improvements at the intersection of Dixie Road at Derry Road has resulted in changes to the geometrics of the roadway requiring the designation of dual left turn lanes.
- The existing southbound left turn lane configuration is recommended to be revised to provide for dual left turn lanes at the intersection of Airport Road at Bovaird Drive East/Castlemore Road. In order for trucks to track properly within the proposed dual left turn movements, heavy trucks must be restricted from utilizing the inside northbound and southbound left turn lanes (lane closest to the centre median).
- Amendments to the Region of Peel's Traffic By-law 57-2005 are required to include the above designations and restrictions.

DISCUSSION

1. Background

a) Dixie Road at Derry Road

Capital road works have been completed at the intersection of Dixie Road at Derry Road. Additional lanes have been added to accommodate traffic volumes.

b) Airport Road at Bovaird Drive East/Castlemore Road

Staff have received feedback regarding the southbound left turn queue spilling into the through lane at the intersection of Airport Road at Bovaird Drive East/Castlemore Road. The southbound approach currently provides for a single exclusive left turn lane, a gore (untraveled) lane, three through lanes and a channelized right turn lane.

2. Findings

a) Dixie Road at Derry Road

The geometrics at the intersection of Dixie Road at Derry Road have been changed to add dual northbound, southbound, eastbound and westbound left turn lanes. The location of this intersection is shown in Appendix I.

b) Airport Road at Bovaird Drive East/Castlemore Road

With the amount of vehicles making the southbound left turn at the intersection of Airport Road and Bovaird Drive East/Castlemore Road, it is more efficient to revise the existing gore lane to operate as a second left turn lane. The location of this intersection is shown in Appendix II.

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A heavy truck restriction will need to be implemented for the existing northbound and southbound median left turn lanes to accommodate the larger turning radii of heavy trucks.

Amendments to the northbound dual left turn lane designations are required as the limits have been revised and the existing northbound right turn lane designation is not required at the intersection of Airport Road and Bovaird Drive East/Castlemore Road.

3. Proposed Direction

a) Dixie Road at Derry Road

For the intersection of Dixie Road at Derry Road, the designation of northbound, southbound, eastbound and westbound dual left turn lanes requires inclusion in Traffic By-law 57-2005.

b) Airport Road at Bovaird Drive East/Castlemore Road

At Airport Road and Bovaird Drive East/Castlemore Road, the second southbound left turn lane will be pavement marked and the traffic signal phasing will be adjusted. Designations of northbound and southbound dual left turn lanes, a truck lane restriction for the inside northbound and southbound left turn lanes and deletion of the designation for the existing northbound right turn lane requires inclusion in the Traffic By-law 57-2005.

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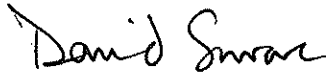
CONCLUSION

As a result of the analysis of the two intersections, staff recommend that the Region of Peel's Consolidated Traffic By-law 57-2005 be amended, by including designations of northbound, southbound, eastbound and westbound dual left turn lanes at the intersection of Dixie Road and Derry Road and designations of northbound and southbound dual left turn lanes, a truck lane restriction for the inside northbound and southbound left turn lane and deleting the designation for the northbound right turn lane at Airport Road and Bovaird Drive East/Castlemore Road.




Dan Labrecque
Commissioner of Public Works

Approved for Submission:



D. Szwarc, Chief Administrative Officer

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c. Legislative Services

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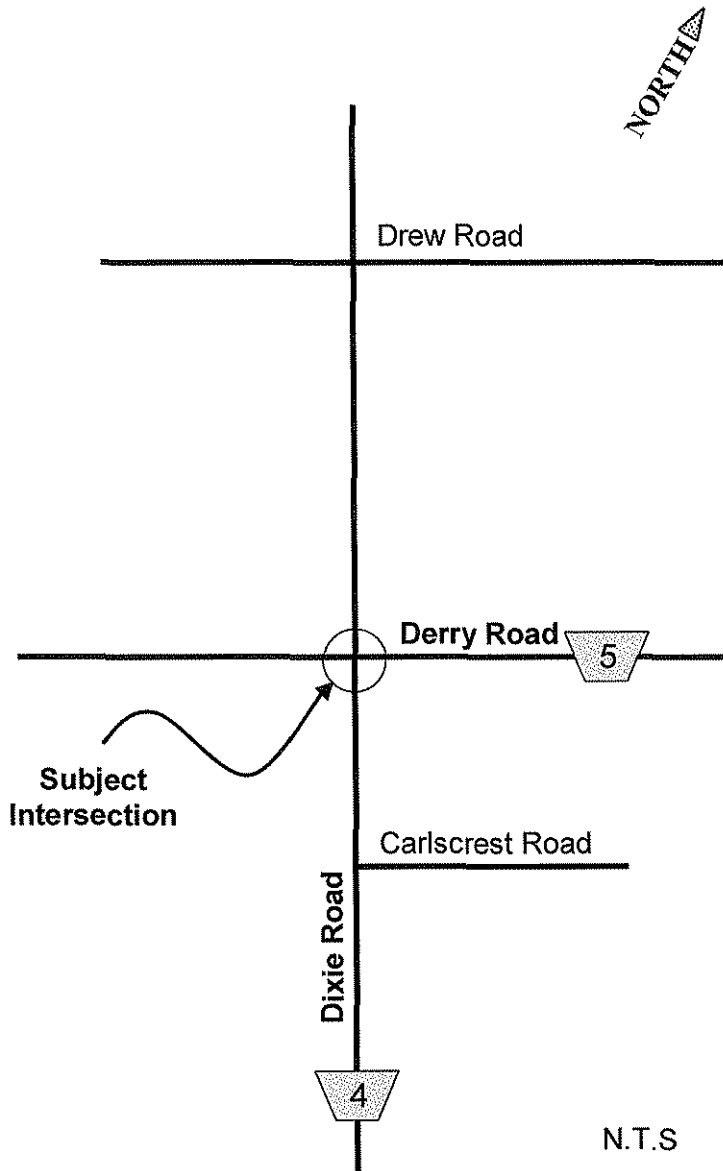
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APPENDIX I



LANE DESIGNATIONS ON REGIONAL ROAD 4 (DIXIE ROAD) AT REGIONAL ROAD 5 (DERRY ROAD) AND REGIONAL ROAD 7 (AIRPORT ROAD) AT REGIONAL ROAD 10 (BOVAIRD DRIVE EAST)/CASTLEMORE ROAD
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