

# WARDEN AVENUE AND ENTERPRISE BOULEVARD - TORONTO

City of Markham . Colorized Pavement Demarcation

## PROJECT OVERVIEW



The City of Markham, near Toronto Canada made a major financial commitment to offer their citizens an alternative transportation mode to commute to and enjoy nearby Toronto. A bus service was introduced with high-speed bus-only lanes and stations that are near to office parks, local attractions and entertainment. To demarcate the bus lanes the city specified a "colorized" concrete pavement.

Unfortunately the reddish color soon faded and wore off leaving the bus lanes without a distinctive color demarcation. A solution had to be found to provide a permanent non-fade color which would separate the bus lanes from the rest of the roadway.

### Project Highlights

Mass transit is a function of many metropolitan agencies throughout North America. One of the areas that affects the ridership volume is the ability of the transit system to provide an on-time service.

With the best of intentions, many of the early efforts in bus lane demarcation were lost on drivers. The definition of a separate bus lane many times involved road marking with the word "bus lane." This was generally ignored with delivery vehicles, taxis and other non-transit users, preventing the public transit system from operating in a timely manner with value to the ridership.

Demarcation has long been debated as being the definition between different road users and where they should or should not drive. The addition of demarcation with a colored pavement has been used in industrial settings since the early 20th century with success.

The city decided to invest in a red pigmented 100% recycled glass aggregate overlay for their bus lanes.

### Relevant Experience Gained

- Installed the first demarcation project in Canada using recycled glass.
- Installed on a pavement surface with constant winter snow plowing.
- The location for the project has weathered one of the worst winters on record in the Toronto area without any loss of aggregate or surface color.

### Value to Customer

- National and international experience at providing solutions to complex transportation issues with an innovative pavement demarcation processes.
- Operating the world's largest fleet of fully-automated application vehicles with the most advanced electronic on-demand monitoring and specification compliancy controls has allowed DBi Services to be the predominate installer of colored pavement demarcation and high friction surfacing treatments.
- Ability to work with transportation departments, cities, counties, toll authorities and private industries to derive safe and economic world class solutions has earned DBi Services the respect of the engineering community across several continents.
- A safe, permanent colorized pavement that is environmentally sound, offering bus and bike users demarcation separating them from other road users.



**High Friction Surfacing Treatments are eligible for federal and state funding through HSIP (Highway Safety Improvement Programs)**

WORLD HEADQUARTERS:

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LOCATIONS WORLDWIDE

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