The Don Valley Parkway
How Toronto Keeps It In A1 Shape
Winner of the 2003 APA Perpetual Pavement Award

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At the turn of the 19th century, the Don Valley was home to industrial uses such as mills and brickworks.

Opening Ceremony: August 31, 1961
(Bloor Street to Eglinton Avenue)
Highway construction facts:
- 4,600,000 m$^3$ earth moved
- 1,250,000 m$^3$ earth used for fill
- 1.2 km of CPR & CN rail track relocated
- 5 homes expropriated
- Cost estimate $28.7$ million (1956)
- Actual cost $40.0$ million (1966)
- Equivalent 2012 cost $274$ million
Pavement Management Stats:
• 58 Mainline segments
• 50 Ramp segments
• Surveyed bi-annually
**Benefits of Perpetual Pavements**

- Fatigue cracking and rutting are reduced
- Pavement distresses are confined to upper wearing layers
- Minimized maintenance and rehabilitation costs
- Quick repairs during overnight and weekend closures
- Reduced user-delay impacts on motorists
- Extended pavement life = lower life cycle costs
- Asphalt material that is milled is recyclable = added benefit to the environment
Surface Courses over the years:

1st Resurfacing (late 1970s to mid 1980s)
• Asphalt containing asbestos fibres
• Asphalt containing steel slag aggregates
• Open friction course

2nd Resurfacing (mid 1990s to late 2000s)
• Dense Friction Course
• Stone Mastic Asphalt (SMA)
• Shingle modified SMA asphalt mixes
• HL 1 (High Stability)
• SuperPave FC1

Resurfacing Projects typically include premium materials and processes.

Placing Stone Mastic Asphalt on Bayview-Bloor Ramps, 2005
Requirements for the Perpetual Pavement Award
City of Toronto
Criteria:
• Service life of 35 years or more
• Resurfacing intervals of no less than 12 years
• No structural failures
• Minimum maintenance throughout service life

Requirements for the Perpetual Pavement Award
City of Toronto

GO Transit Bus By-Pass Lanes (BBL)

Who else is riding on the Don Valley Parkway:
Heart & Stroke Foundation – Ride for Heart
Celebrating 25 Years, 1987-2012
Canada’s single largest charity cycling event
13,000 cyclists
Funds Raised: $5 million (2012)
www.rideforheart.ca
Thank You

References:
- Perpetual Pavements Presentation - NAPA

Websites:
- Wikipedia
- Get Toronto Moving
- Heart & Stroke Foundation
- The Star
- University of Toronto