

Project Overview

- Project of Transportation and Works, Regional Municipality of York
- EA for Regional road widening and reconstruction in urban context
- Provincially Significant Wetland
- Lots of public concern including road-kills, some ecological issues
- Municipal desire to get it right
- Diverse stakeholder group

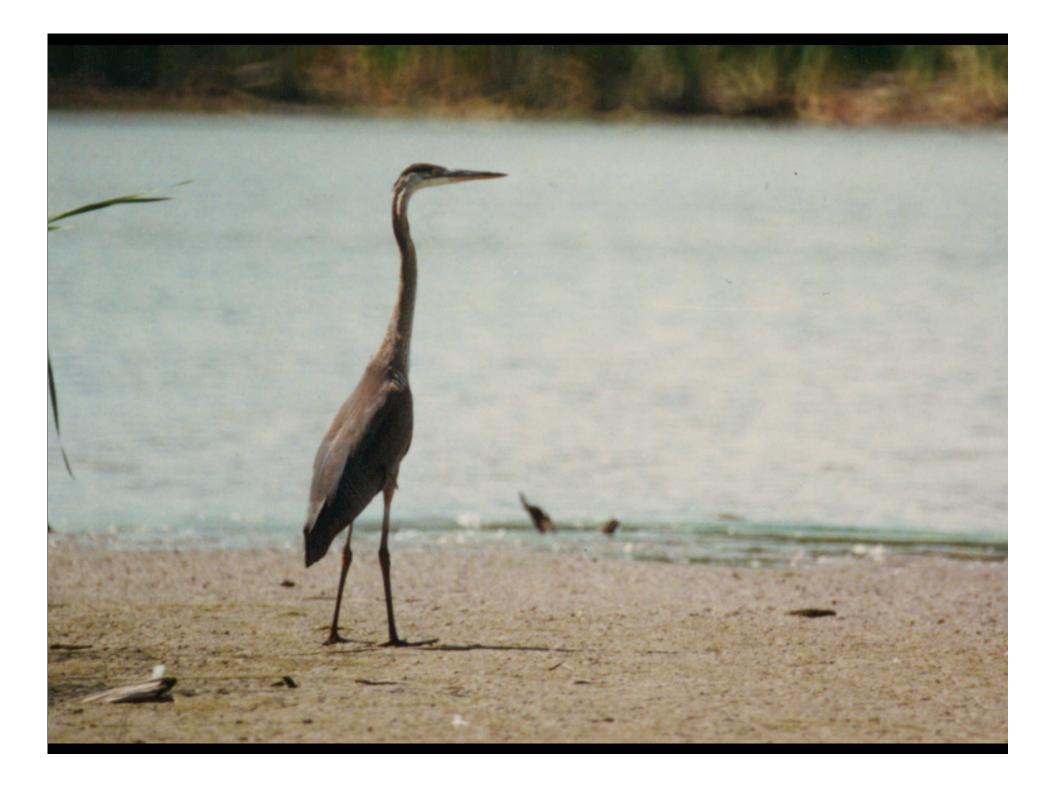










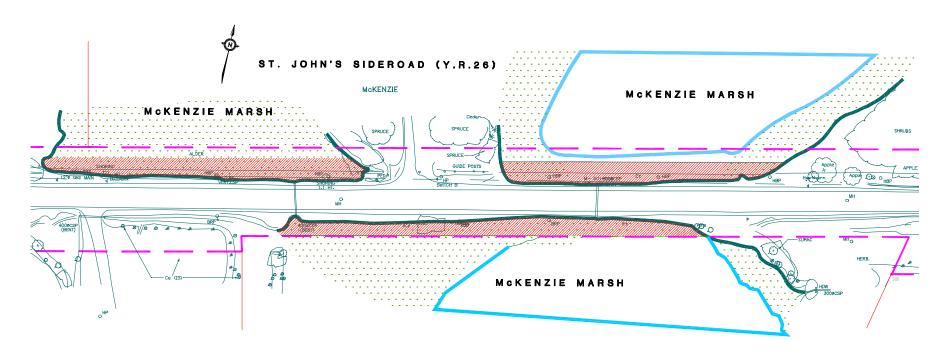








- Loss of wetland
- Road-kills
- Water quality
- Human access





Total Area of Wetland Encroachment = 0.22 ha

- Loss of wetland
- Road-kills
- Water quality
- Human access







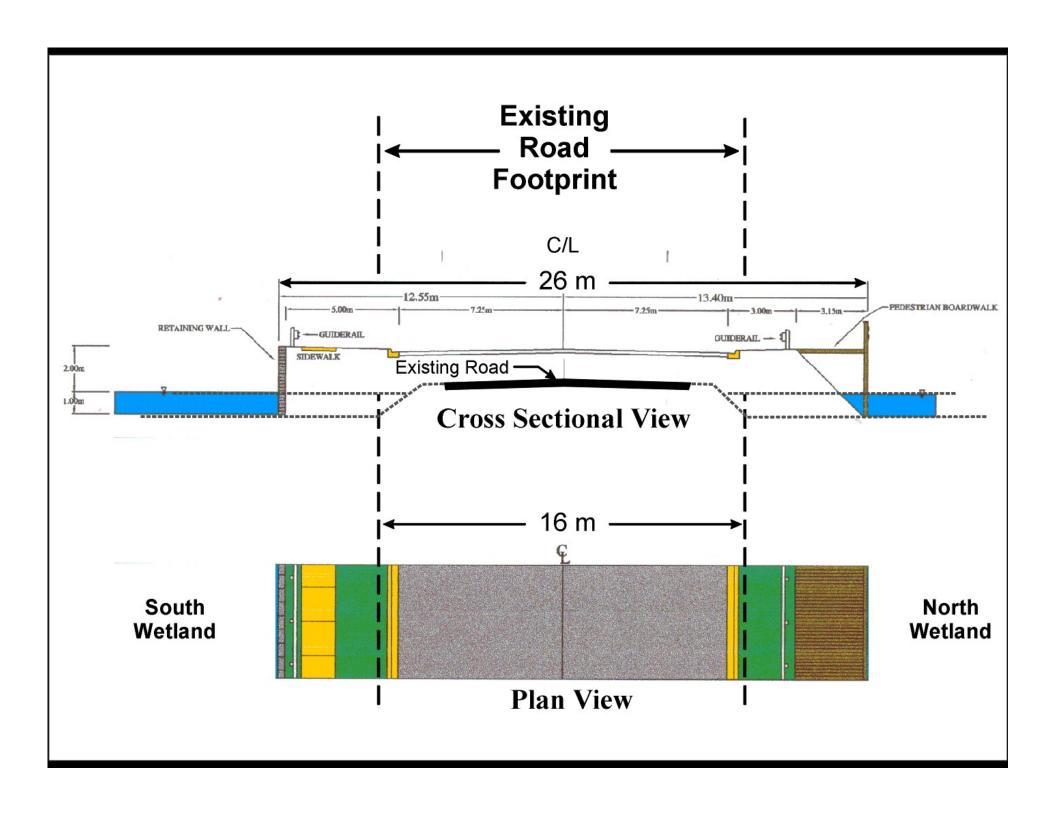
- Loss of wetland
- Road-kill
- Water quality
- Human access

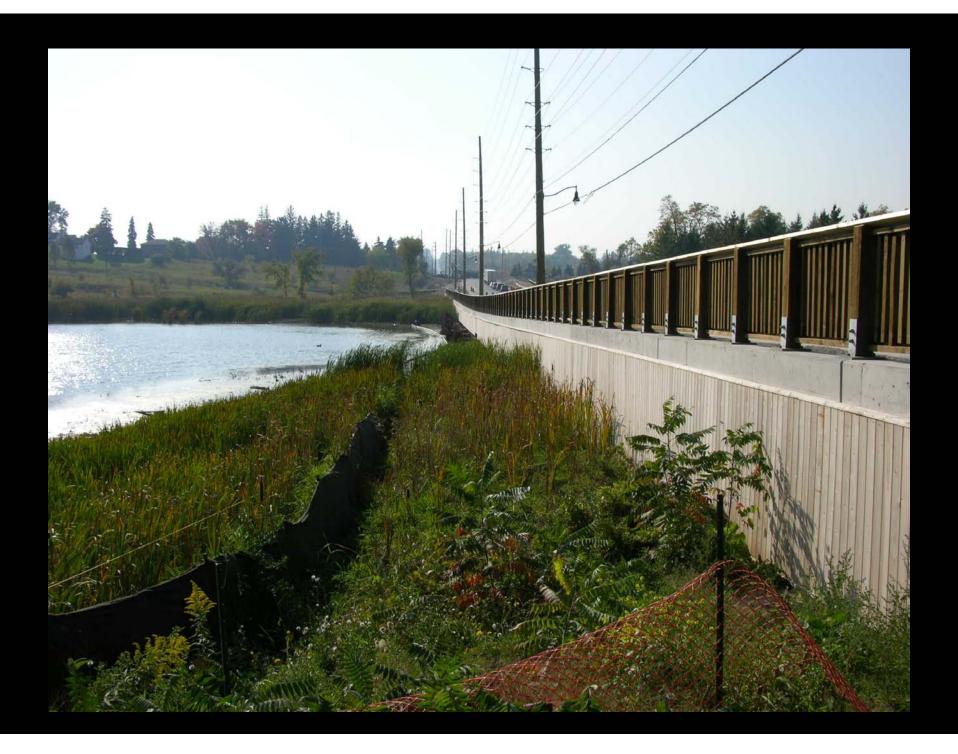




- Loss of wetland
- Road-kill
- Water quality
- Human access

- Minimize road footprint
- Reduce wildlife access
- Facilitate wildlife passage
- Habitat improvements
- Focus pedestrian use
- Manage water levels



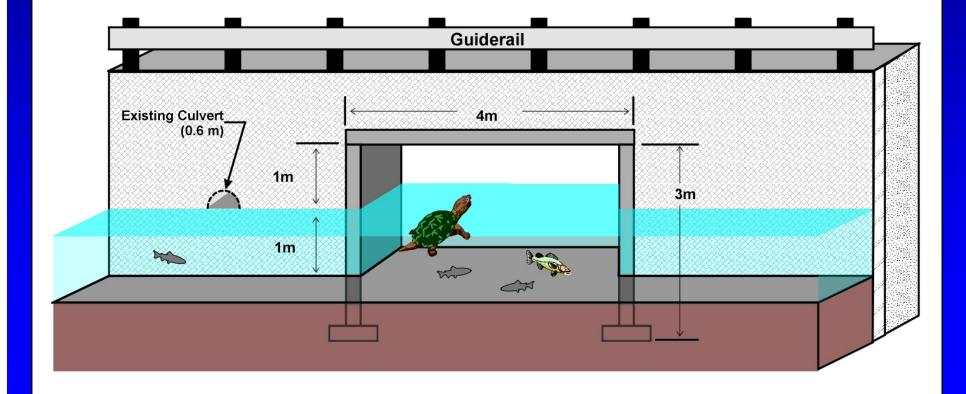


- Minimize road footprint
- Reduce wildlife access
- Facilitate wildlife passage
- Habitat improvements
- Focus pedestrian use
- Manage water levels



Wet Culvert

West





- Minimize road footprint
- Reduce wildlife access
- Facilitate wildlife passage
- Habitat improvements
- Focus pedestrian use
- Manage water levels

- Minimize road footprint
- Reduce wildlife access
- Facilitate wildlife passage
- Habitat improvements
- Focus pedestrian use
- Manage water levels



- Minimize road footprint
- Reduce wildlife access
- Facilitate wildlife passage
- Habitat improvements
- Focus pedestrian use
- Manage water levels



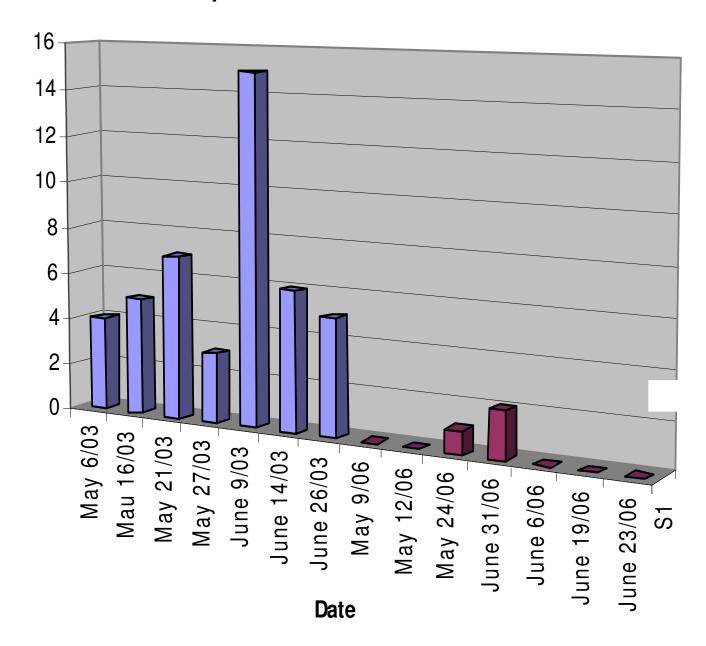
Design, Mitigation, Monitoring

- Road designed to minimize encroachment
- Vertical retaining wall
- Removal of gravel shoulders
- Oversized culvert for fauna passage
- Wet and dry culverts

- Remove road side turtle nesting habitat
- Boardwalk and trail
- Focus pedestrian
 access with
 plantings, controlled
 observation points
- Plantings around south wetland

- Suggested retrofit of Town's storm water pond to south
- Suggested alternative turtle nesting habitat
- Suggested managing water levels
- 2 yr monitoring program

Comparison of number of roadkills pre- and post-construction for select comparable dates in 2003 and 2006















Questions?

Brian Henshaw
Julia Marko Dunn, Donald Fraser
Beacon Environmental
8 Main Street N., Markham, Ontario
bhenshaw@beaconenviro.com

