

# Concrete Bowstring Bridges

Examples of Rehabilitation throughout southern Ontario

# Irvine Street Bridge

- Township of Centre Wellington
- Rehabilitated in 2014
  - Repairs to arches, railing, deck, soffit, and re-facing the abutments and wing walls
  - Cost approximately \$850,000



# Argyle Street Bridge

- Caledonia
- Rehabilitated 10-15 years ago
  - Rebar was beginning to rust
  - Corrosion from road salt on concrete
- Beginning to see wear on bridge from traffic and salt use and starting to see corrosion and concrete delamination



# Eden Mills Bridge

- York Street, Eden Mills
- Sympathetic Replacement
  - Arches and railings are “false” and not structural
  - Railing was filled in to conform to safety requirements of the Bridge Code
  - Solid wall seems very prominent





# Creditview Road Bowstring Arch Bridge

- Creditview Road, Brampton
- Rehabilitation 2005
  - Cost \$618,000 in 2005 (approximately \$850,000 today)
  - Double railing required to conform to traffic safety requirements
  - Removal and replacements of concrete deck
  - Rehabilitation of bowstring arches
  - Work on the abutments

