

# County of Bruce

## Class EA for the Durham Street Bridge Community of Walkerton



PRESENTATION TO BRUCE COUNTY COUNCIL

August 1, 2024



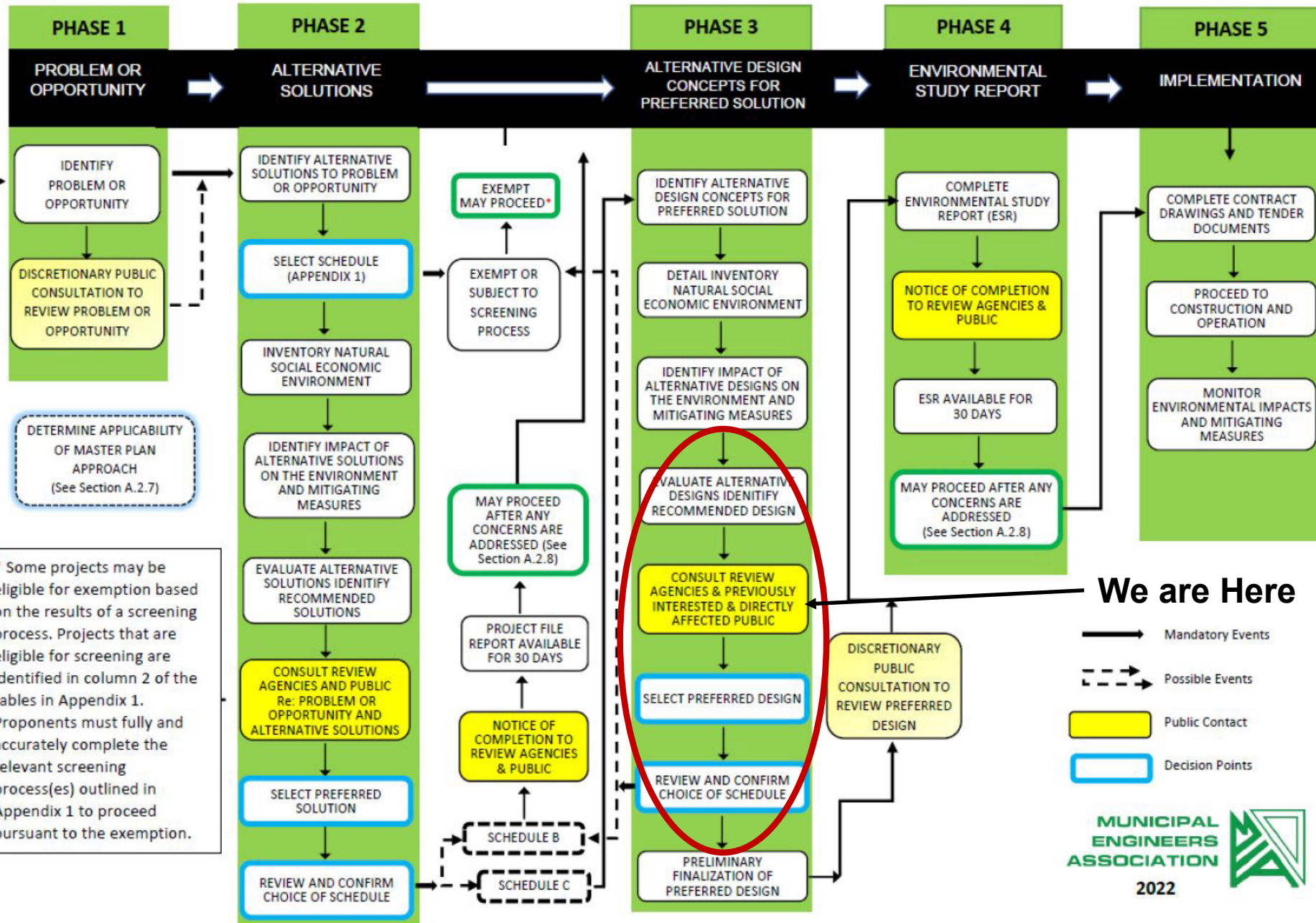
# Overview

- Project Background
- Class EA Process
- Review of Alternatives
- Preferred Recommendation
- Anticipated Schedule
- Lane Restrictions during Construction

# Project Background

- **February 2021** – Class EA process initiated
- **2021/2022** – Cultural Heritage/Geotechnical/Hydraulic/Aquatic Habitat Studies Completed
- **Fall 2022** – Initial Public Information Meeting
- **May 2023** – Business Owners Meeting
- **Fall 2023** – Third Party Review Initiated by County
- **Winter 2023/24** – Bridge Condition Survey and Third Party Review Completed
- **February 2024** – Load Limit Restrictions Enforced at Crossing
- **April 2024** - Bridge Reinforcement Plan approved by County Council

# CLASS EA STUDY PHASES





# Class EA Bridge Alternatives

- **Alternative 1** – Replacement in the Same Location
  - Remove existing bridge and construct a new bridge in the same location
- **Alternative 2** – Rehabilitate the Existing Bridge
  - Complete repairs to the crossing to address existing concrete deterioration at the half-joints, deck and railing repairs, other identified deficiencies
- **Alternative 3** – Do Nothing – No work would occur to address the existing deterioration

# Evaluation of Alternatives

- **Alternative 1 - Bridge Replacement**

- Initially this alternative was preferred due to concerns with the bridge's age and the half-joints
- Concerns expressed by members of the public due to proposed detour and anticipated impacts to residents and local businesses
- Concerns also identified due to length of construction period and costs associated with bridge replacement

# Evaluation of Alternatives

- **Alternative 2 - Bridge Rehabilitation**

- This alternative was not initially recommended due to concerns with the bridge's age and half joint design
- Third Party Review and Updated Bridge Condition Survey indicated that bridge could be rehabilitated removing the single load path (half-joints)
- Condition of other bridge components determined to be better than expected
- Construction could be completed with lane restrictions rather than complete closure minimizing resident's concerns

# Evaluation of Alternatives

- **Alternative 3 – Do Nothing**
  - Not a viable option given the current condition of the half-joints



# Recommended Bridge Alternative:

- Alternative 2 – Bridge Rehabilitation
  - Addresses identified bridge deficiencies
  - Minimizes impacts to residents and businesses
  - Less expensive than full replacement



# Proposed Schedule

- **May 1, 2024** – Final PIC With 3<sup>rd</sup> Party Review Results Added
- **May 2024** – Initiate Emergency Bridge Reinforcement/Repairs
- **Late May 2024** - End of comment period following PIC
- **July 6, 2024** – Issue Draft ESR For County Staff
- **August 1, 2024** – Present Preferred Alternative to County Council for Endorsement
- **August 2024** – Finalize ESR/Publish Notice of Study Completion

# Proposed Schedule – Continued

- **Fall 2024** – Tender Bridge Rehabilitation Works (Phase 2)
- **Late Fall 2024** – Emergency Reinforcement Completed (Phase 1)
- **Winter 2025** – Initiate Rehabilitation Work (Phase 2)
- **Summer/Fall 2025** – Rehabilitation Completed (Phase 2)

# Next Steps

- Confirm selection of Preferred Alternative – Council Endorsement
- Finalize Environmental Study Report (ESR)
- Publish Report and Notice of Study Completion for 30 day mandatory review period
- Complete Emergency Bridge Reinforcement Work
- Tender Bridge Rehabilitation Works
- Complete Bridge Rehabilitation following Completion of the Emergency Reinforcement Work

# Questions