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

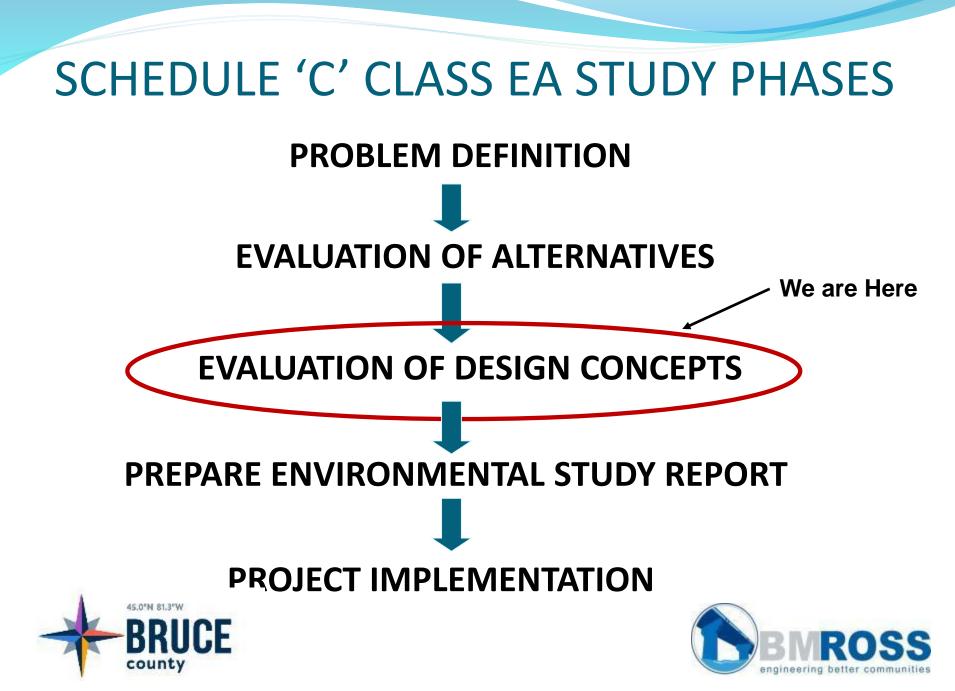


#### **Presentation to Brockton Council**



June 6, 2023





## **Class EA Consultation Program**

- February 2021 Project Initiation
  - Notice Published in Walkerton Herald, Hanover Post
  - Letters sent to Review Agencies and Indigenous Groups
  - Notice sent to 400+ Adjacent Property Owners
- May 2021 Website launched with Signs at Bridge
  - Approximately 20 submission through the website
- October 4, 2022 Public Meeting 45 in Attendance
- May 11, 2023 Meeting for Businesses 135 in Attendance





### **Durham Street Bridge**



#### Deficiencies

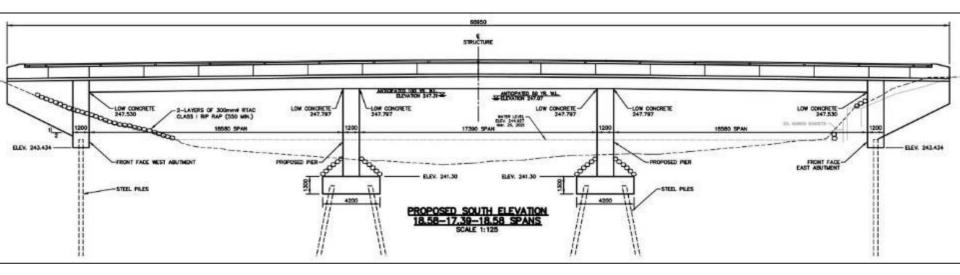
- Concrete Deterioration
- Safety concerns associated with the drop in centre span

#### **Bridge Details**

- Five span rigid frame T-Beam Girder Bridge with a drop-in centre span with half joints and cantilevered end spans.
- Constructed Circa 1937



### **Conceptual Replacement Bridge Design**



- Existing bridge has 4 piers new bridge will have two
- Proposed design will match or slightly improve hydraulic conditions at the bridge
- Proposed middle piers in same general location as existing central piers, minimizing impacts to aquatic habitat

# Hydraulic Investigation

- Assessment of the Proposed Durham Street Bridge included:
  - Floodplain model updates with new survey data and the partial removal of the Truax Dam
  - Ensuring no flooding impacts to properties or dyke system
  - Cut and fill assessment for impacts on flood storage
  - Ice jam and ice flow considerations
  - Evaluation of different bridge design alternatives
  - Report submitted to SVCA for review and approval
  - Proposed bridge design reviewed through the model





# **Detour Alternatives**

- Detours Using County Roads North and South Routes
  - Trucks traffic encouraged to use detour
- Local Detour Via C.R. 19/Concession 2/Yonge Street
  - Estimated Cost of \$1.9 M + Engineering
- Temporary Vehicle Bridge Adjacent to Orange Street
  - Estimated Cost of \$6.3 Million + Engineering
- Temporary Pedestrian Bridge Adjacent to Orange Street
  - Estimated Cost of \$2.6 M + Engineering





### County Road North Detour

DURHAM STREET (BRUCE RD 4) CLOSED BETWEEN McNAB ST. AND WILLIAM ST.

#### **BRIDGE OUT - ROAD CLOSED**

NO THROUGH ACCESS. FOLLOW LOCAL DETOUR TO ACCESS DOWNTOWN WALKERTON. SUMMER 2025 TO FALL 20

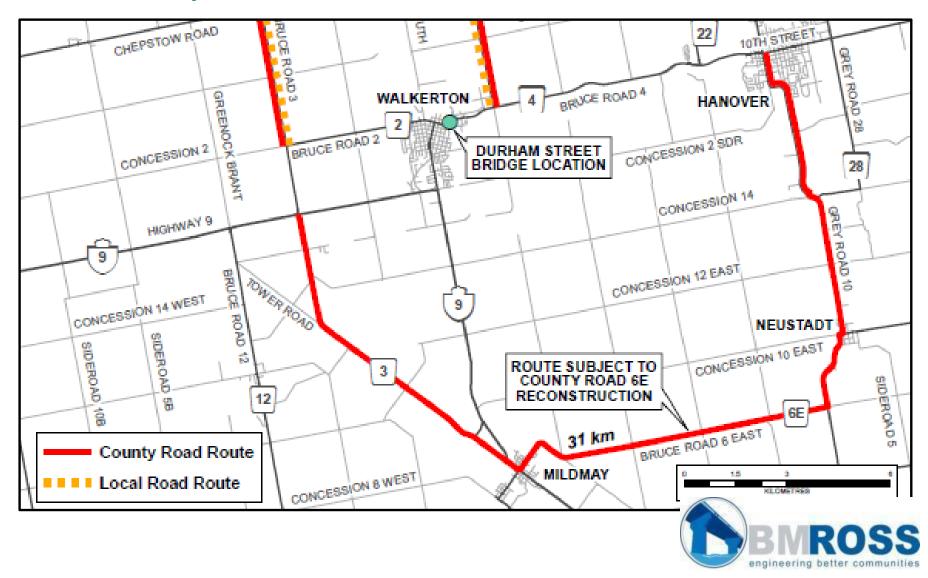
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#### ACCESS TO ALL BUSINESSES

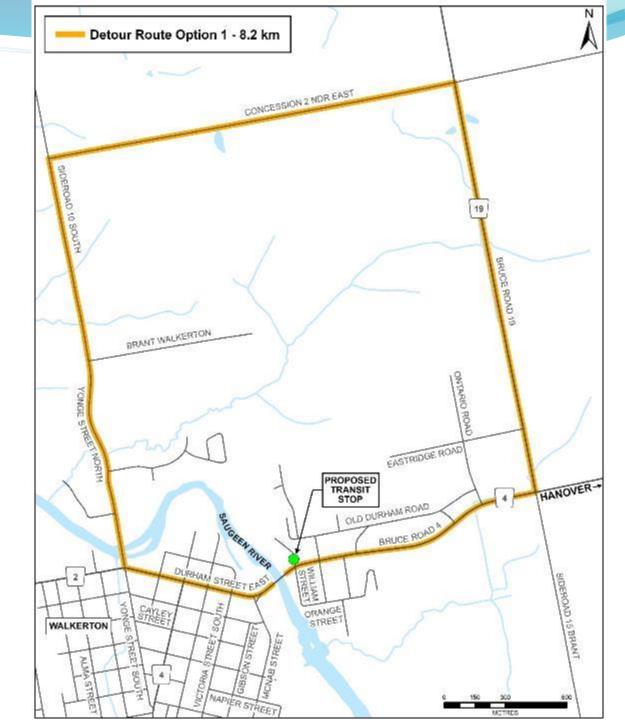
EXAMPLE PROJECT SIGN - TC64 & TC64T NOT TO SCALE



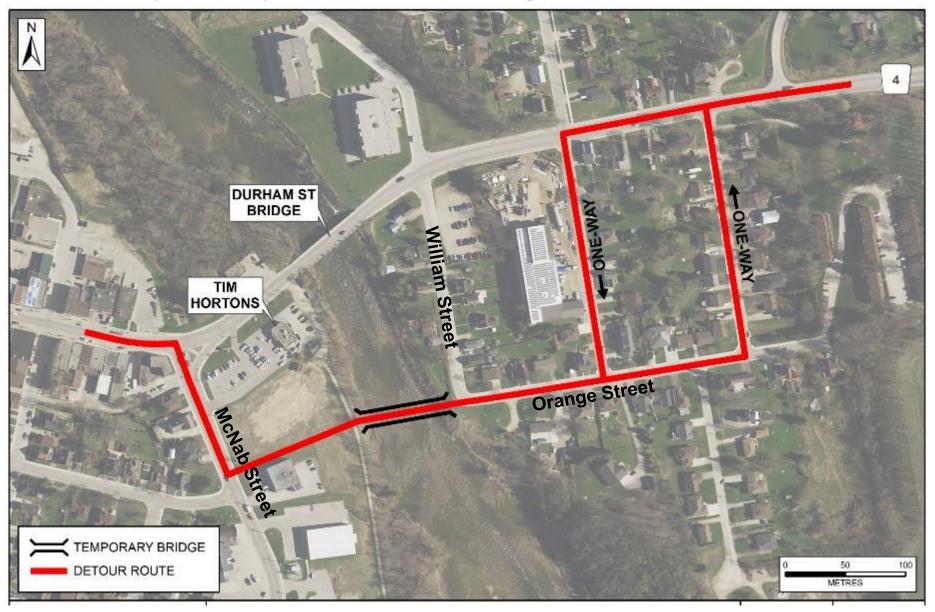
#### **County Road South Detour**



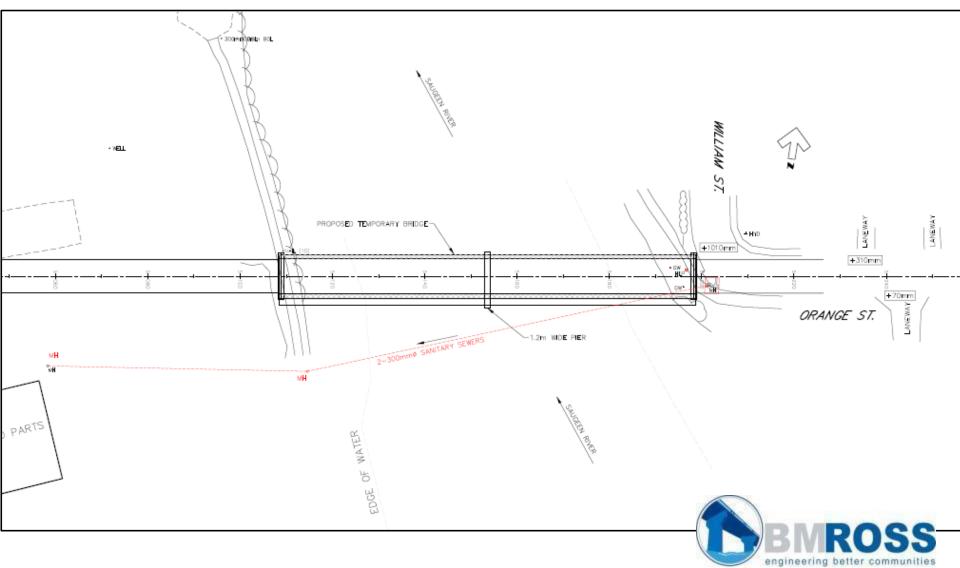
# Detour Using Local Roads



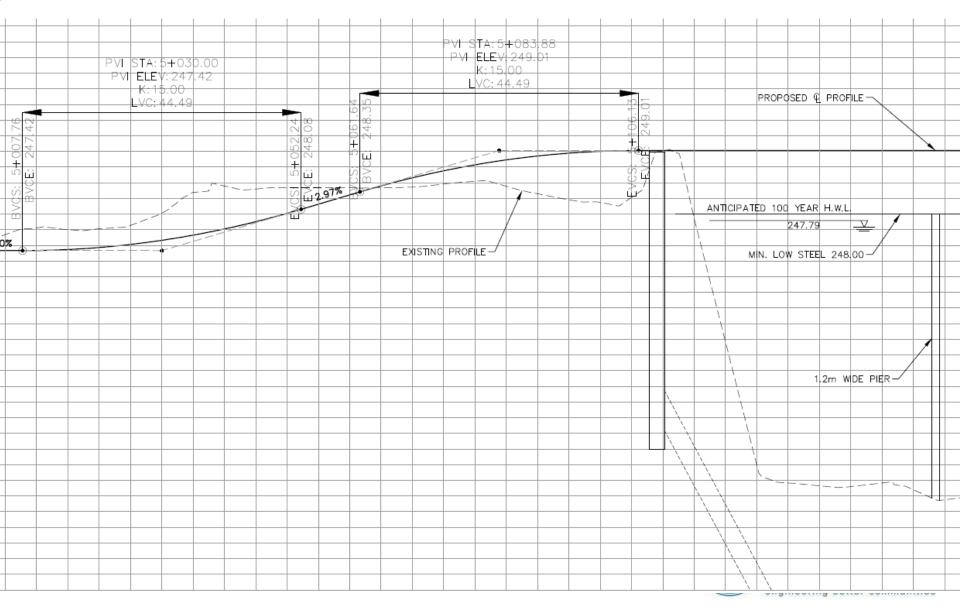
### **Temporary Vehicle Bridge**

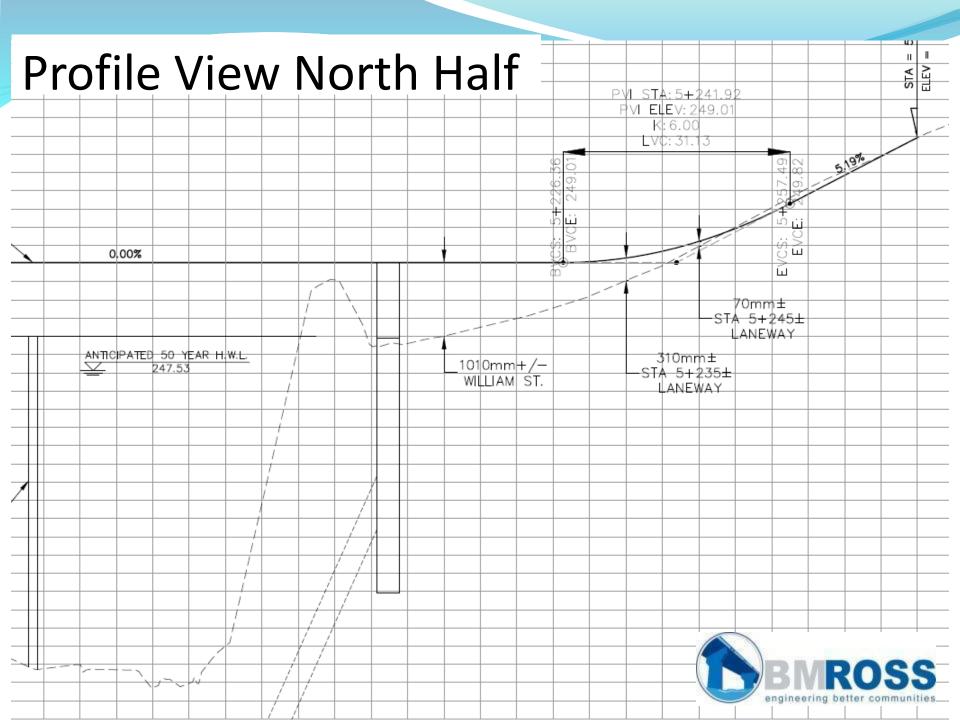


### **Plan View**



### **Profile View South Half**





#### View of crossing location looking east toward Orange St.



### View of trail at crossing location



#### View of access toward McNab from crossing location



#### View of berm at corner of Orange and William



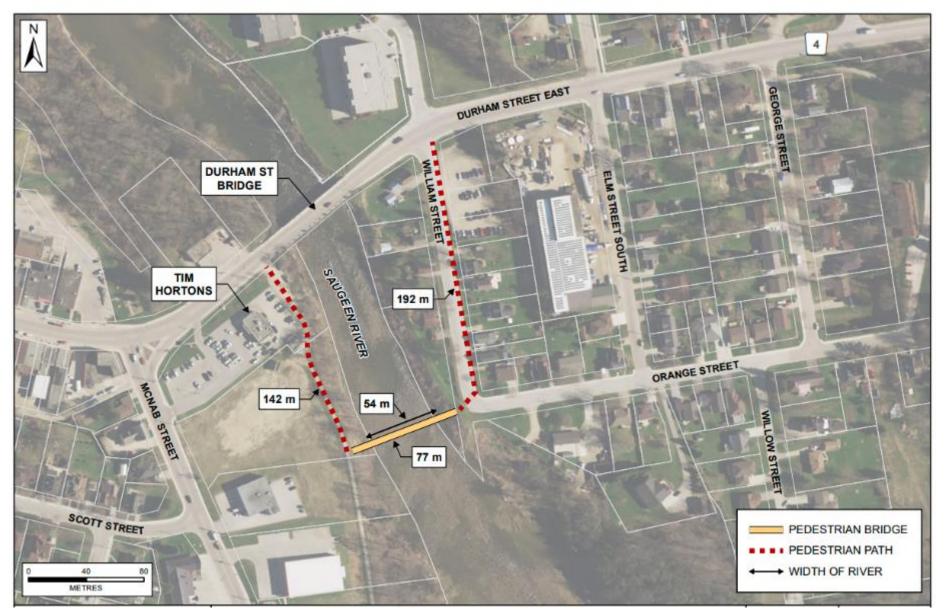
#### View looking east on Orange from edge of berm



#### Pier Construction for Multi-Span Bridge



### **Pedestrian Bridge**





#### Existing Trail in Winter – behind Tim Hortons



## **Recommended Detour Option**

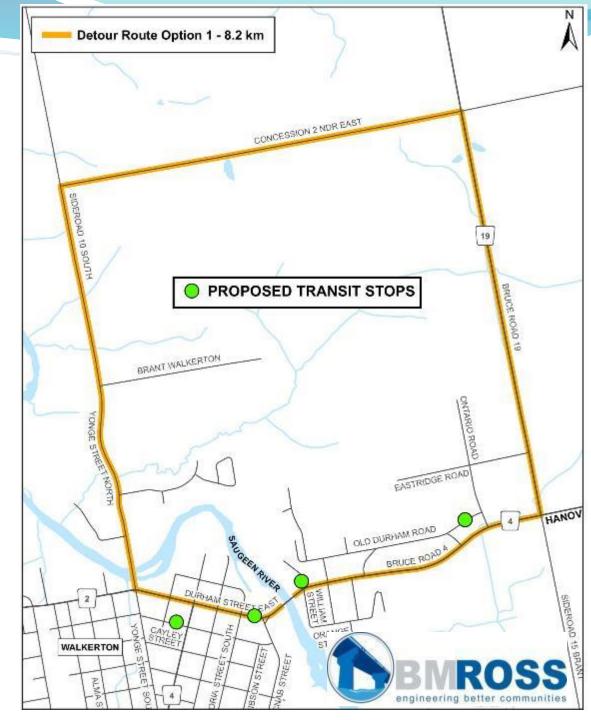
### Local Detour

- Local traffic to use local detour to the north via Bruce Road 19, Concession 2 and Yonge Street
- Transit stops to be created on both sides of the river to convey pedestrians into Walkerton – 12 hour daily service
- Truck traffic encouraged to use truck detour routes
- Concession 2 and Yonge Street to be upgraded with additional lift of asphalt to improve road base
- Improvements planned for intersections of 19/Conc. 2, Yonge/Conc. 2 to improve turning radius
- Improvements at Yonge/Durham Street to provide temporary signals



### Recommended Detour Alternative:

• Local Detour Route





# **Proposed Schedule**

- June 2023 Presentation to Brockton Council
- Summer 2023 Presentation to County Council
- Summer/Fall 2023 Second Public Information Meeting
- Summer/Fall 2023 Update letter to Agencies/ Indigenous Communities
- Fall/Winter 2023 Finalize EA Process & Publish Report
- Winter 2023/24 Complete Engineering Design & Apply for Approvals (DFO/SVCA/MECP)
- **2024** Complete detour road upgrades
- Spring 2025 Construction Initiated
- Fall 2026 Construction Completed



### Feedback and Comments Received to Date

- Concerned with length of local detour
- 1700 Residents cut off from the downtown
- Concerns that pedestrian traffic is cut off and that transit approach may not meet required demand
- Concerns with response times for emergency services
- Request for a pedestrian bridge during construction
- Has a wooden timber bridge been investigated vs concrete girder style
- Loss of traffic through the downtown will impact businesses
- Request for a public health survey of residents due to the potential loss of the bridge during construction
- Burden of costs to residents due to extra fuel needed to use local detour vs a temporary vehicle bridge





### Feedback and Comments Received to Date, cont'd

- Request to see a breakdown of the temporary bridge in Paisley vs the potential temporary bridge in Walkerton
- Request for an Economic Impact Study
- Concerns about increased accidents at intersections for potential detour
- Concerns about the detour closing during winter storms
- Long list of marketing and campaign ideas generated through consultation with business owners
- The County to work with Brockton Staff to continue furthering the dialogue and voice of the business owners.
- Frequent meetings or possibly ad-hoc committee with businesses



