

County of Bruce

Class EA for the Durham Street Bridge

Community of Walkerton



Meeting with Business Owners

May 11, 2023



Agenda

- Schedule 'C' Class EA Process
- EA Consultation
- Bridge Details
- Proposed Detour Upgrades
- Proposed Schedule
- Economic Initiatives during Construction
- Brainstorming Session

CLASS EA STUDY PHASES

PROBLEM DEFINITION

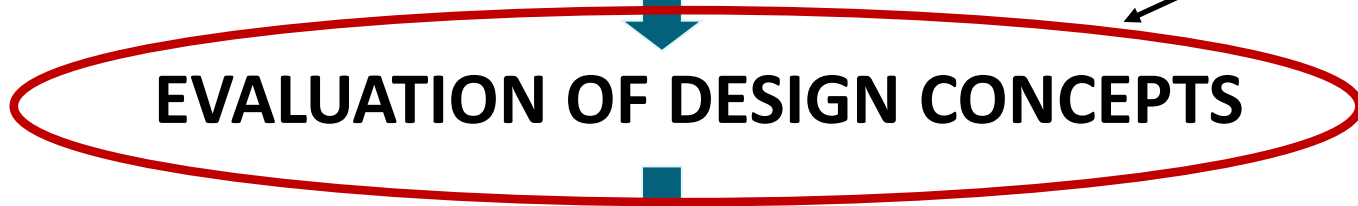


EVALUATION OF ALTERNATIVES



EVALUATION OF DESIGN CONCEPTS

We are Here



PREPARE ENVIRONMENTAL STUDY REPORT



PROJECT IMPLEMENTATION

Class EA Consultation Program

- February 2021 – Project Initiation
 - Notice Published in Walkerton Herald, Hanover Post
 - Letters sent to Review Agencies and Stakeholders
 - Notice sent to 400+ Adjacent Property Owners
 - Letters sent to Indigenous Communities
- May 2021 – Website launched with Signs at Bridge
 - Approximately 20 submission through the website
- October 4, 2022 Public Meeting
 - Approximately 45 members of the public in attendance



Input from Agencies

- **Ministry of Environment, Conservation and Parks**
 - Consult with Indigenous Communities; Address Climate Change impacts and Source Water Protection
- **Ministry of Citizenship and Multiculturalism**
 - Impacts to Cultural Heritage Resources
- **Municipality of Brockton**
 - Maintain Flower Boxes and Fish Symbols, Access to Trail
 - Interested in Pedestrian Bridge, Detour Upgrades
- **Saugeen Valley Conservation Authority (SVCA)**
 - Approval from SVCA required; Floodplain Impacts



Durham Street Bridge

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



Deficiencies

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



Durham Street Bridge - Deficiencies

Concrete deterioration



Drop in half joint



Detour Alternatives

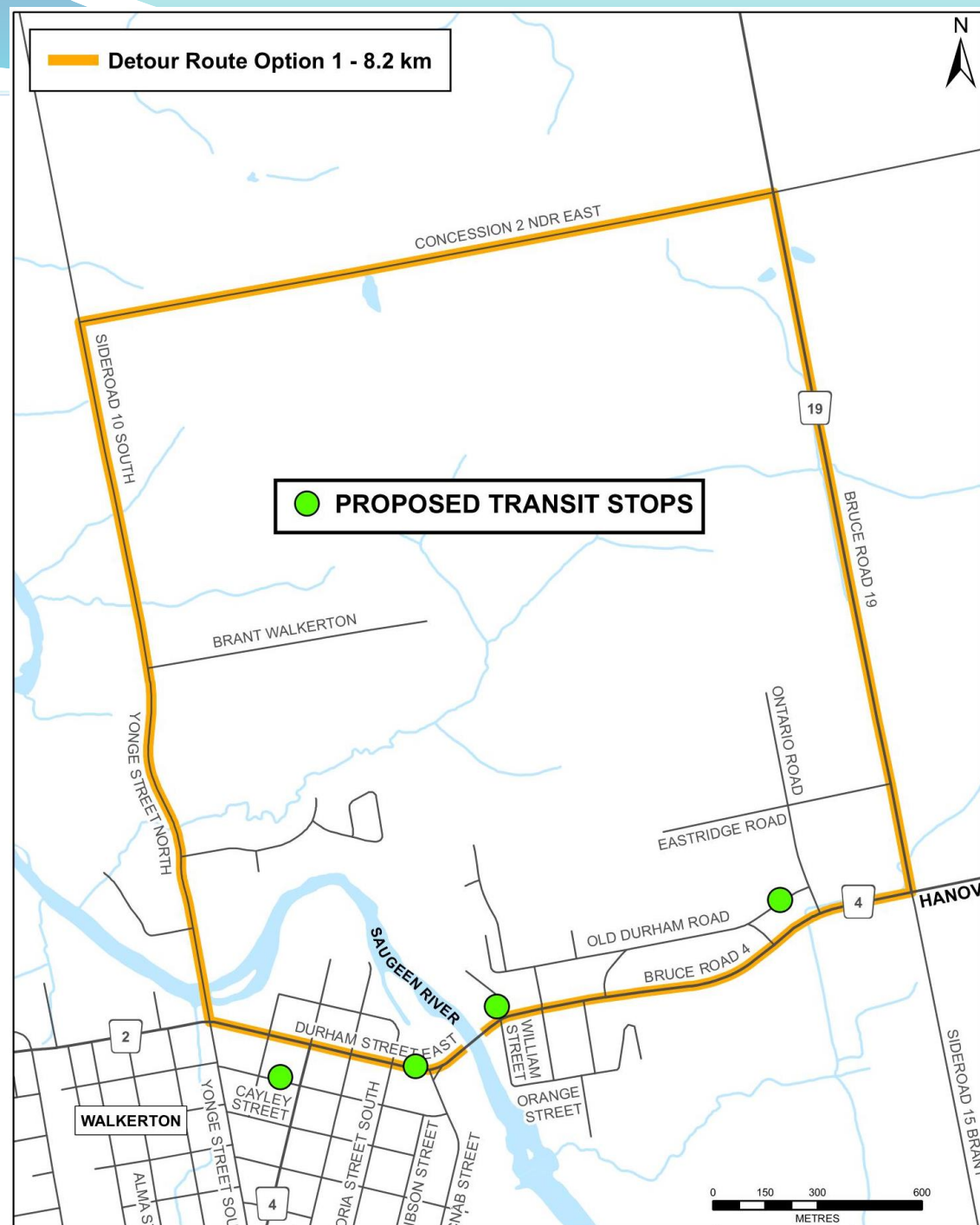
- Truck Detour
 - Trucks encouraged to use detour for all Alternatives
- Temporary Vehicle Bridge – Adjacent to Orange Street
 - Estimated Cost of \$6.3 Million + Engineering
- Temporary Pedestrian Bridge – Adjacent to Orange Street
 - Estimated Cost of \$2.6 M + Engineering
- Local Detour – Via C.R. 19/Concession 2/Yonge Street
 - Estimated Cost of \$1.9 M + Engineering

Recommended Bridge Alternative:

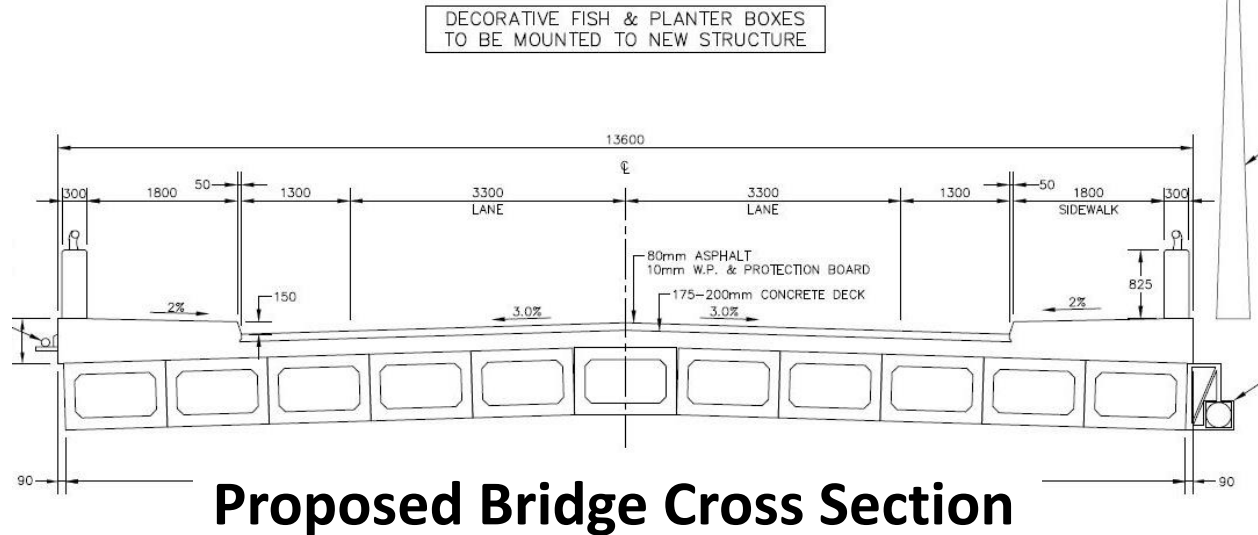
- Replace Bridge in the Same Location

Recommended Detour Alternative:

- Local Detour Route



Design Criteria of New Bridge

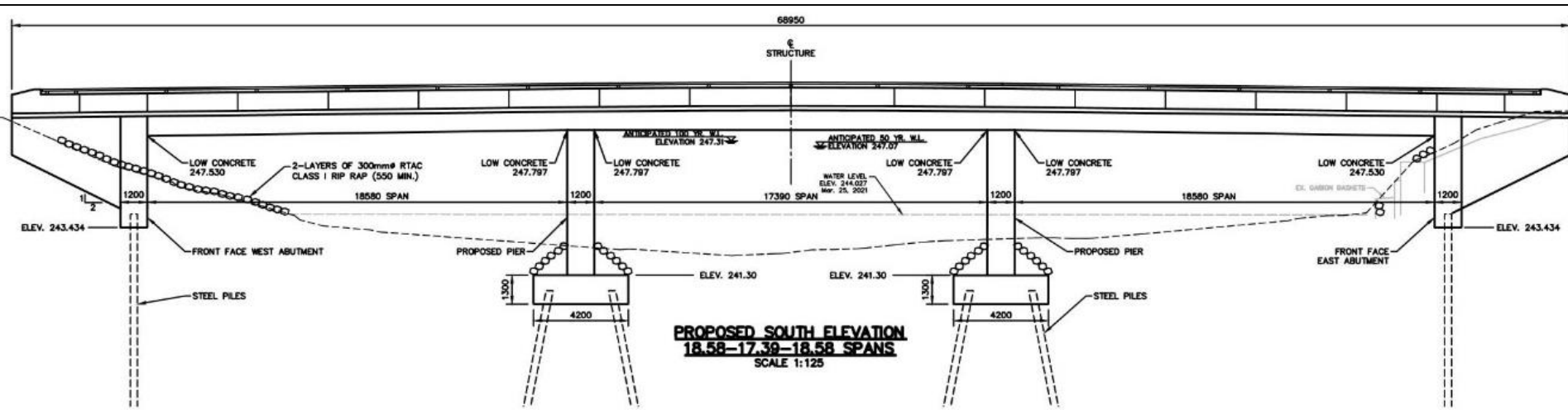


Preliminary Design

- Three spans/2 in-water piers
- 2 Sidewalks 1.8m (6') wide
- Maintain integrity of dyke
- Sympathetic design of posts



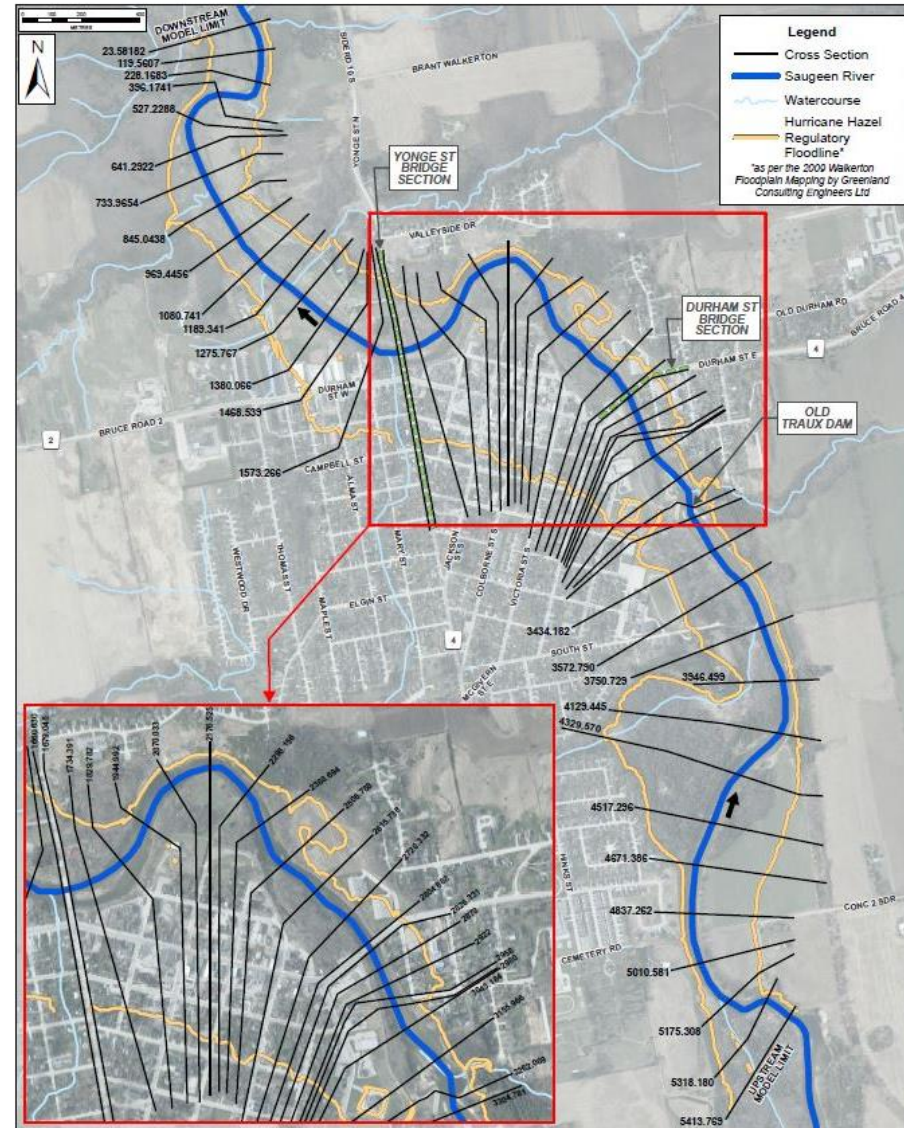
Conceptual Replacement Bridge Design



- 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

- Walkerton is protected with a system of flood control dykes owned and maintained by SVCA, providing protection up to a 100 yr return event
- Floodplain mapping completed in 2009
- Floodplain mapping indicates overtopping of the flood dykes for the regulatory Hurricane Hazel event
- Recent changes include partial removal of Truax Dam in 2019



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

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

Proposed Detour Upgrades

- Shuttle Service
- Yonge Street/Sideroad 10 Upgrades
- Concession 2 Upgrades
- Intersection of Yonge & Durham
- Intersection of Durham and McNab
 - Construction to occur in conjunction with bridge
- Signage



Shuttle Service

- Shuttle service to be offered 12 Hours/day, 7 Days/Week
- Capacity of shuttles is 12 + 2
- Two local firms are interested in offering the service
 - Voyago and Drivers Seat
- Both companies provide access to an App that allows for live tracking of the shuttles
- Two pick-up/drop-off locations east and west of the bridge
- Specific hours of service to be confirmed based on public need
- Two shuttle buses could be offered during peak periods



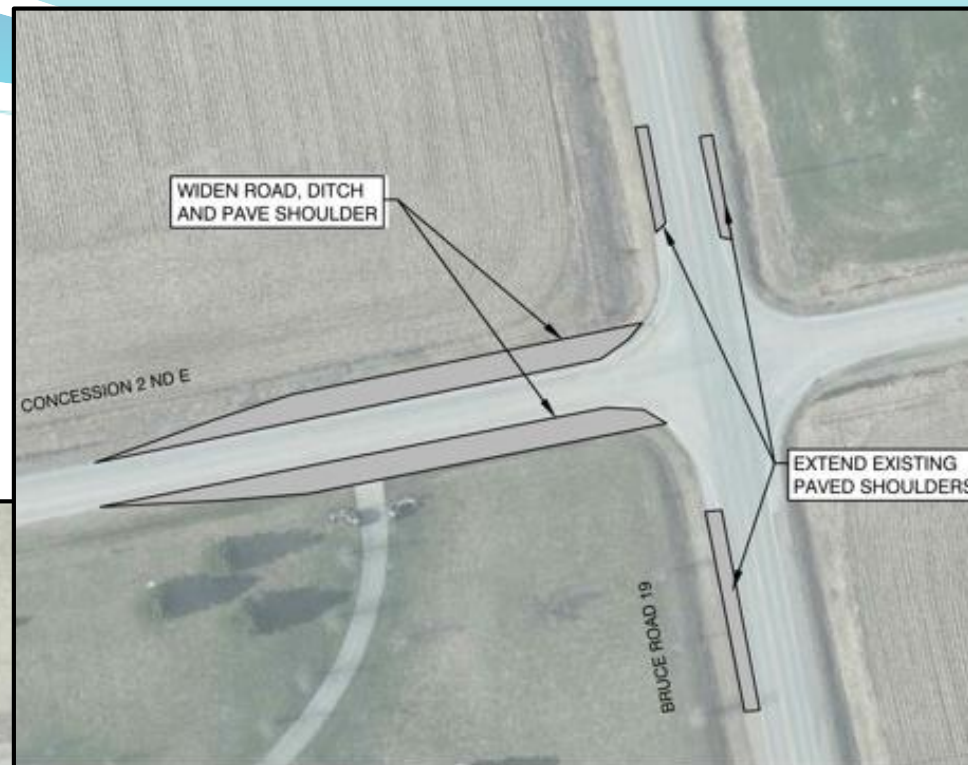
Yonge Street/Sideroad 10 Upgrades

- Yonge Street reconstruction from north extent of bridge over the Saugeen River to Valleyside Drive
- Replace storm drainage infrastructure
- Replace road base and add additional lift of asphalt
- Temporarily reduce speed to 60km/hr from Concession 2 to town limits

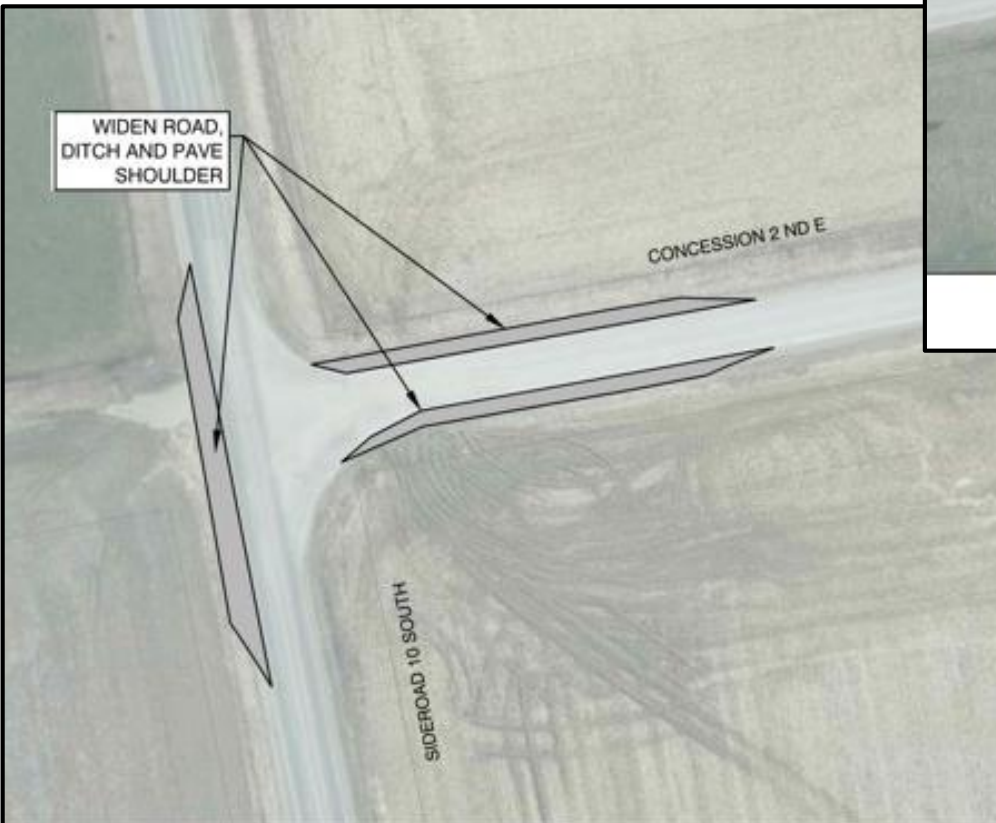
Concession 2 Upgrades

- Add additional lift of asphalt to road surface
- Extend pavement into the shoulders for extra width
- Increase turning radius at intersections for truck traffic
- Provide temporary digital speed signs/posted at 60km/hr

Intersection Upgrades



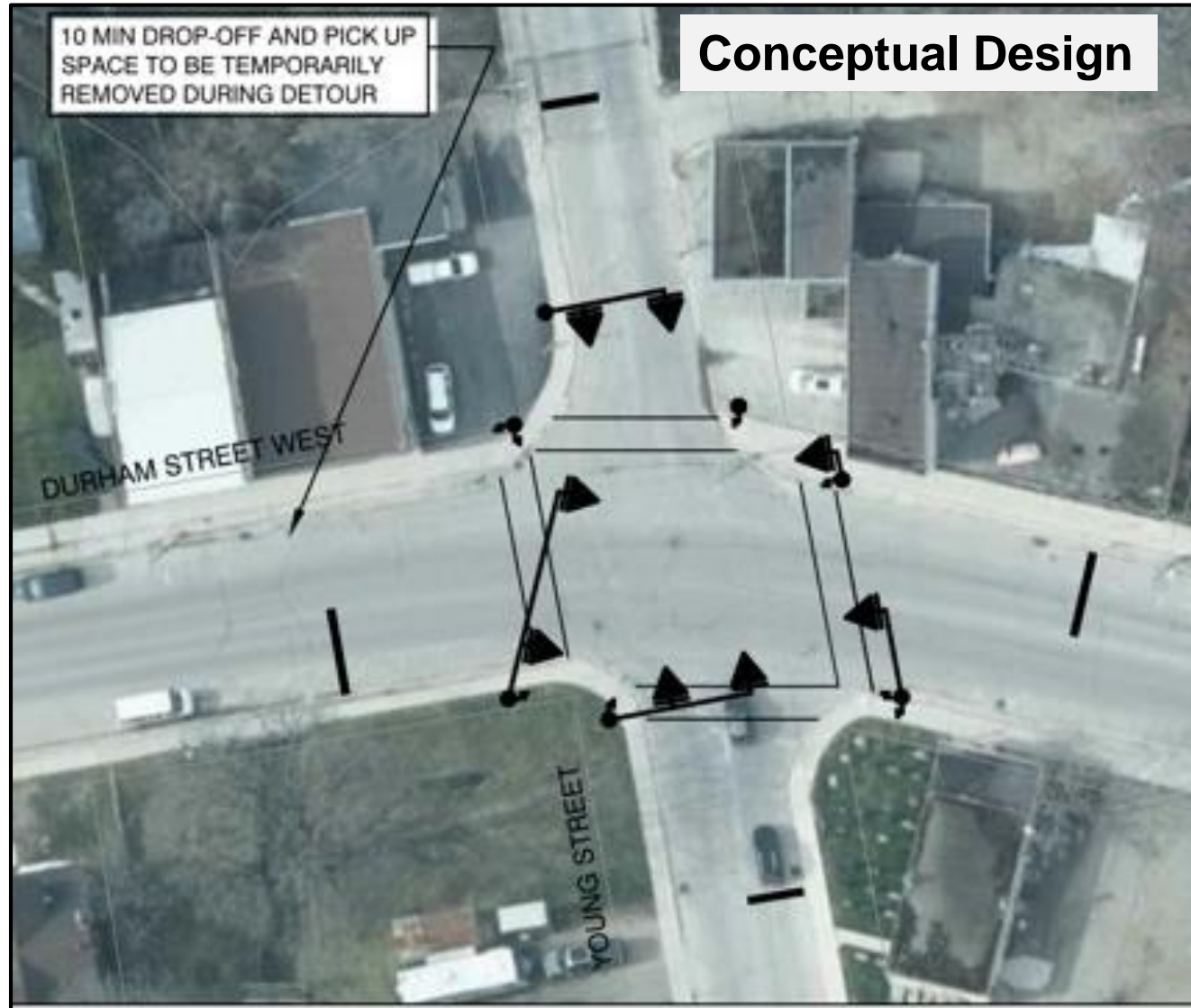
**PROPOSED INTERSECTION IMPROVEMENTS
BRUCE ROAD 19 & CONC 2 ND E**



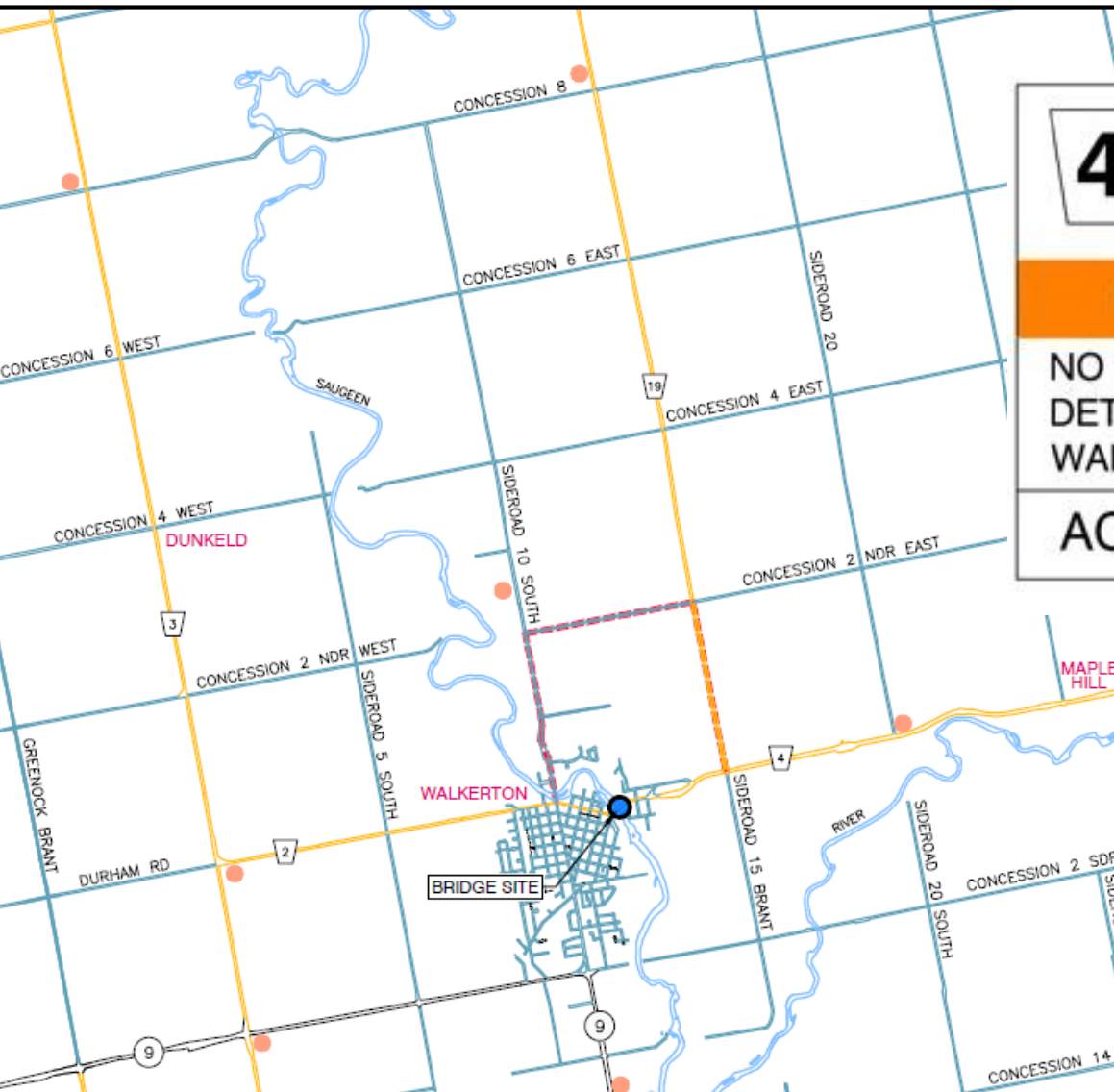
**PROPOSED INTERSECTION IMPROVEMENTS
SIDEROAD 10 S & CONC 2 ND E**

Yonge and Durham Intersection

- Install temporary signals at intersection
- Improve pedestrian safety at the crossings



Proposed Detour Signage



PROPOSED PROJECT SIGNS LOCATION PLAN

4	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 2026	
ACCESS TO ALL BUSINESSES!	

EXAMPLE PROJECT SIGN - TC64 & TC64T

Proposed Schedule

- **June 2023** – Presentation to Brockton Council
- **July 2023** – Presentation to County Council
- **July 2023** - Second Public Information Meeting
- **July 2023** – Update letter to Agencies/ Indigenous Communities
- **Fall 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

Potential Economic Impacts

- Aware that downtown business owners are concerned about impacts during construction
- Bruce County Economic Development and Brockton Economic Development will help to address impacts
- Brand Campaigns have been developed in other communities impacted by construction
 - Kincardine – ‘Shop & Dine Passport’ Campaign
 - Paisley – ‘Where the River Meets’ Campaign
- Shuttle Service will have two stops in the downtown
- Regional Tourism Organization 7 (RTO7) Data



County Supports – Economic Development

- The County's Business to Bruce support team will be available to support the following during construction:
 - Marketing strategy development for individual businesses
 - Support with workforce including recruiting and retention strategies
 - General business support during construction including planning for expansion or new product development
- The County will work with local municipal staff to support:
 - Additional marketing through the Explore the Bruce platform for Brockton and the surrounding area
 - Ongoing staff presence in the area to ensure that support is being provided where it is needed. (Staff walks and connections)
 - Any programs that may be developed to support local businesses
 - Any additional programming or routes intended to bring in transient visitors to the area

Brainstorming Session

- An opportunity for business owners to provide their input and ideas on how to encourage residents and travelers to visit the downtown during construction
- Go to the table that matches the number you were given upon arrival
- A series of questions will be discussed – 10 minutes/topic
- All suggestions and ideas will be recorded
- Results will be summarized at the end of the meeting