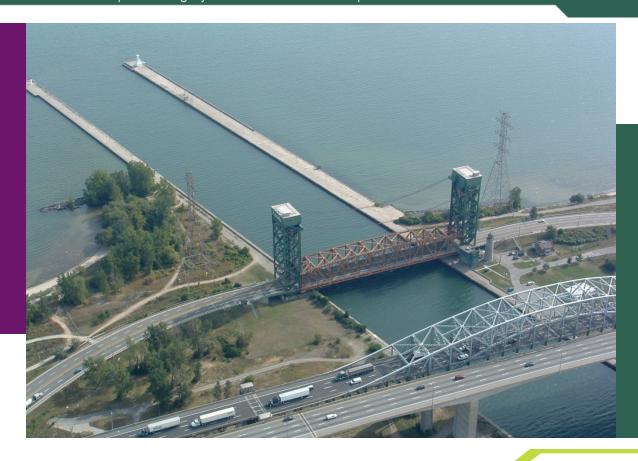
## The Burlington Canal Lift Bridge

Serving GOVERNMENT, Serving CANADIANS.

Respect \* Integrity \* Excellence \* Leadership







The Burlington Lift
Bridge provides access to
thousands of commercial
and pleasure vessels that
enter the Hamilton
Harbour each year.

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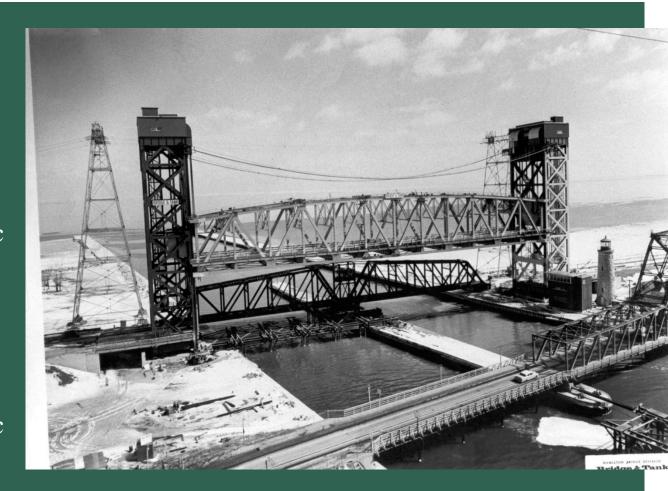
The Bridge provides the only crossing over the Harbour for pedestrians and cyclists.

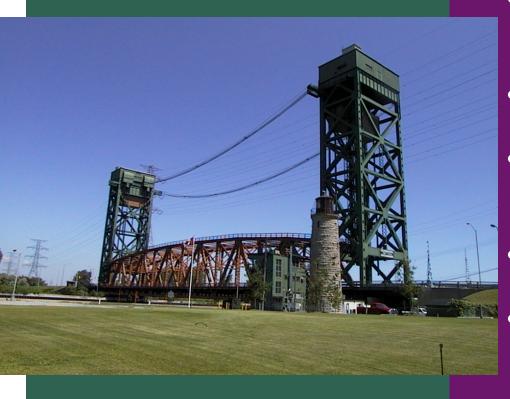


It is the closest viable detour route for vehicular traffic during closures to the QEW/Burlington Bay Skyway Bridges.



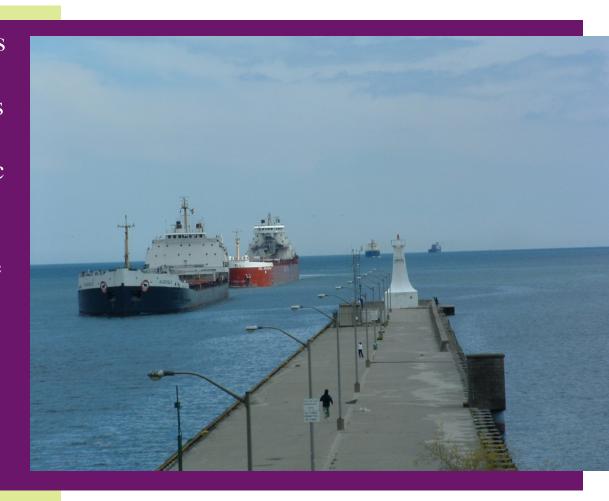
- Five different bridges since 1830
- Present bridge was opened in 1962
- Originally two lanes of road traffic and a rail line.
- 1982 the rail was removed and the road widened to the current four lanes of road traffic





- Span is 380 ft long and 65 ft wide
- Bridge weight is 2200 tons
- Counterweights offset the span weight so that the motors are only lifting approx. 14 tons
- Four 150 hp motors located in the bridge towers 2 in each tower
- Electrically tied to make sure the bridge remains leveled during the operation
- A back-up generator powers the bridge during any power failures
- At full speed the bridge travels 60 feet per minute

- The navigation season runs from mid-March to the end of December, 24 hours a day, 7 days a week.
- Commercial boating traffic accounts for roughly 1500 vessels per year, including tugs and work boats, while pleasure craft numbers are approx.
   5000 per year.
- The bridge has operated over 200,000 times.



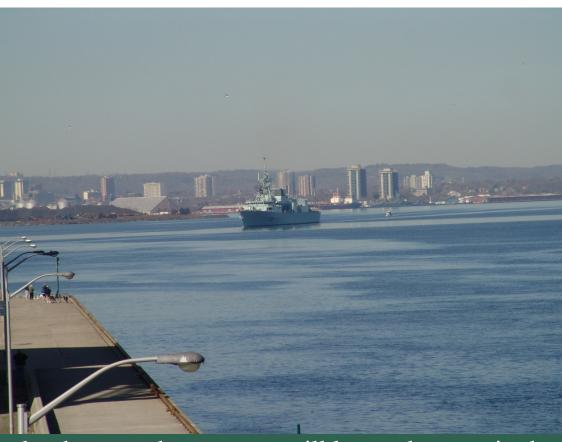
## **Bridge Operation**





- For large commercial vessels, the process begins while the vessels is approximately 1.5 miles away from the bridge.
- Once radio communication has established that the vessel is lining up for its final approach to the bridge, the lifting sequence is started.
- The red navigation light located on the span and at the end of the piers is switched from solid red to flashing red.

- The navigation horn warns all
- Pedestrian Traffic is Stopped followed by vehicular traffic
- The Bridge is unlocked and the span is ready to be raised
- Through a series of steps the Operator ramps the bridge up to full speed.
- Once fully raised the navigation lights change from flashing red to solid green
- indicating to the ship that the bridge is fully raised.
- Once the vessel has proceeded under the span the operator will lower the span in the reverse order









## **New Controls and Drives**



Safety is a top priority for PSPC.

- We are currently undertaking a major construction project to replace key components of the bridge lift system to ensure the continued safety and functionality of this transportation link.
- The replacement of key components of the bridge's lift system will extend its serviceable life, meeting the needs of both marine and vehicular traffic in the area.

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