

# WALTERDALE BRIDGE REPLACEMENT

## PROJECT UPDATE

(August 2015)

After nearly 100 years, the Walterdale Bridge has reached the end of its service life. A \$155 million replacement project is under construction and is anticipated to be open to traffic in fall 2016.

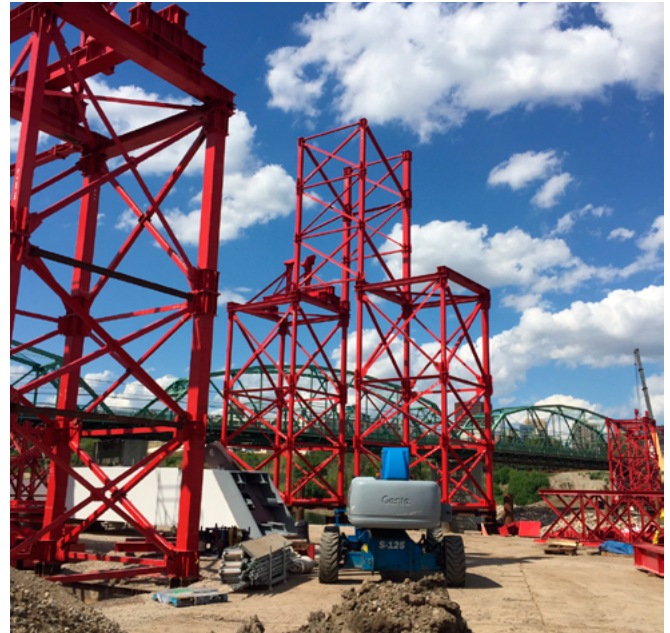
### BARGE INSTALLATION COMPLETE

The general bridge contractor, the Acciona/Pacer Joint Venture (APJV), has completed assembly of the barges in preparation for floating the steel arches across the North Saskatchewan River, which is scheduled to happen in fall 2015.

Since the North Saskatchewan River needs to be at least 2.1 metres deep in order to float the barges across, the APJV is dredging the river bed. Dredging began on August 26, 2015, and should take two to four weeks, concentrating on a stretch about 100 metres along the south bank and near the south berm. The equipment used will be similar to a hydrovac, with a head that sucks up water and dirt from the river bottom. The mixture will be separated into solids and water via a centrifuge. The filtered water will be diverted into the storm sewer, and the remaining material will be used as backfill for Queen Elizabeth Park.



*The assembled barge in south side laydown area*



*Temporary arch support towers on the south berm*

### CONSTRUCTION

All four concrete bridge support legs that connect the arches with the underground thrust blocks are complete, and all cofferdams have been backfilled.

The APJV is well underway with constructing the central portion of the arch, with an expected completion date of October.



*One of the backfilled cofferdams*

About 80 per cent of the arch steel is now on site, allowing the APJV to build the central portion of the arch on the south bank.

The project team is awaiting the remaining arch sections and steel for bridge decking and shared-use pathway. The bridge deck pieces are currently being coated and prepared for shipping in Korea.

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## CONSTRUCTION TIMELINE

2013-14	<p><b>Completed</b></p> <ul style="list-style-type: none"> <li>• Majority of tree clearing.</li> <li>• Access roads and in-river berms.</li> <li>• Park trails rerouted.</li> <li>• Utilities relocated and drainage system updated.</li> <li>• Realignment of Queen Elizabeth Park Road.</li> <li>• Installation of pilings and construction of cofferdams needed for thrust blocks.</li> <li>• Realignment of Walterdale Hill Road.</li> <li>• Construct new access roads for Kinsmen Sports Centre.</li> <li>• Move interpretive belvedere panels to temporary location.</li> <li>• Construct thrust blocks.</li> </ul>	2015-16	<p><b>Ongoing/Upcoming</b></p> <ul style="list-style-type: none"> <li>• Barges complete.</li> <li>• Concrete bridge support legs complete.</li> <li>• Construct central arch segment and float it across the river.</li> <li>• Lift arch segments onto concrete support legs.</li> <li>• Complete the full arch and span it across the river.</li> <li>• Construct the bridge deck, and connect it to the arch.</li> <li>• Construct the shared-use pathway, and connect it to the bridge deck and arch.</li> <li>• Connect roads to new bridge alignment.</li> <li>• New bridge open to traffic.</li> </ul>
		2017	<ul style="list-style-type: none"> <li>• Landscaping/trail connections.</li> <li>• Demolition of old bridge.</li> </ul>



A piece of the central arch is moved during assembly