King Street East Bolton Bridge Replacement over the Humber River





September 28, 2022

Project Justification



- ➤ In 2017, the Region of Peel identified that the King Street Bridge (east of Humber Lea Road) required rehabilitation, based on the Biennial Inspection Report
- ➤ Upon commencing the detailed design, it was discovered that the bridge was in worse condition than expected with severe deterioration
- ➤ A detailed life-cycle costing was completed which found that the bridge is beyond the point of economic rehabilitation and that replacement would have a lower long-term cost
- ➤ Replacement of the bridge addresses primarily its structural deterioration, but also provides an opportunity for wider sidewalks, safety improvements and compliance with updated standards

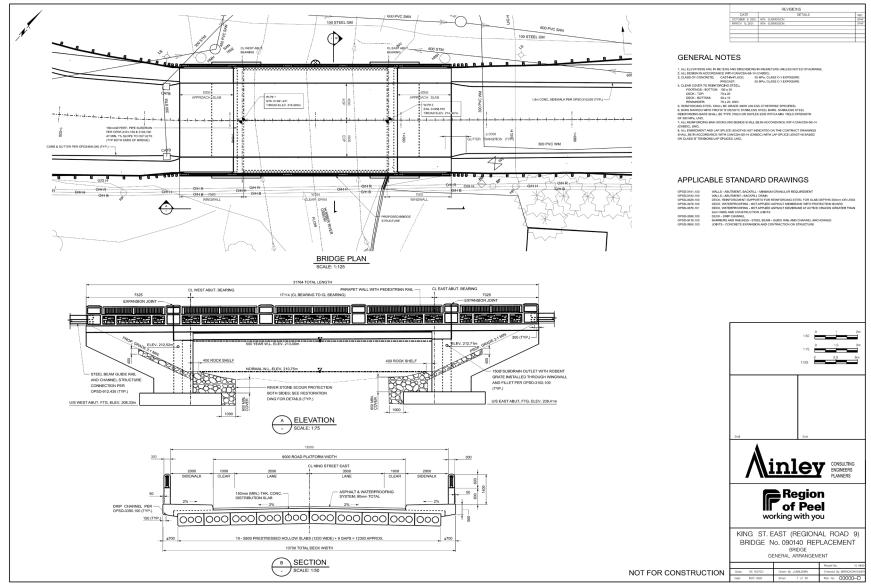
Project Details



- Demolishing and removing the entire existing bridge
- Constructing a new bridge with:
 - 2 lanes of traffic
 - ➤ 1 metre separation between traffic lanes and sidewalk (currently only 0.3 metres)
 - 2.0 metres new sidewalks on both sides (currently only 1.2 metres)
 - No expansion joints, which will reduce future deterioration, lower maintenance needed
 - Improved road drainage on the bridge approaches
 - ➤ 1.4 metre high decorative parapet walls with pedestrian railings (to comply with upgraded standards)
 - > 75 year design life

New Bridge General Arrangement





Full Road Closure Justification

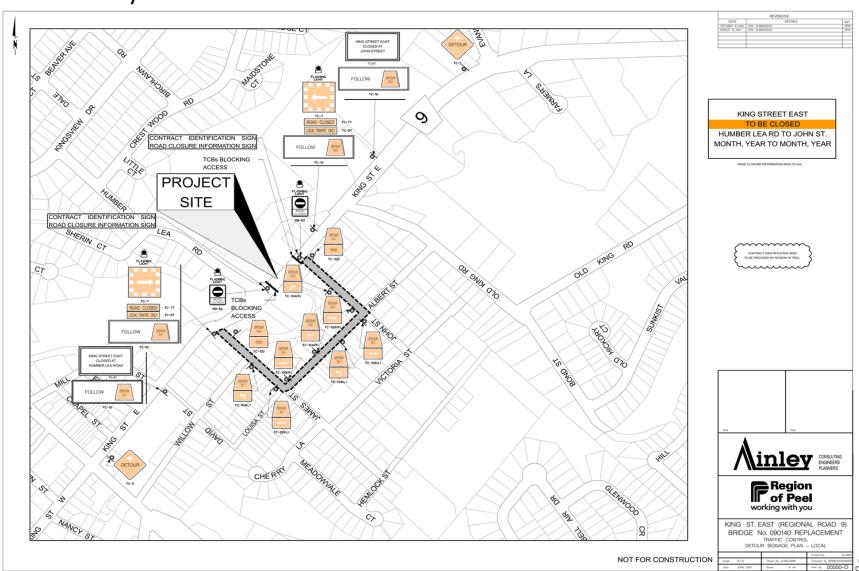


- The existing bridge is too narrow and does not have sufficient width to accommodate a staged construction (e.g. close and work on eastbound lane leaving westbound lane open to traffic using signals at each approach to the bridge)
- There are intersections at both ends of the bridge which present challenges to properly provide signals for a staged construction
- ➤ Working in the Humber River is permitted only within a relatively short in-water works window, per Ministry of the Environment, Conservation and Parks regulations and permitting conditions we need to comply with
- Safety issues for vehicles, pedestrians, cyclists and construction workers
- Local and global detours will be in place to guide car and truck traffic

Local Detour Route

> For use by local traffic

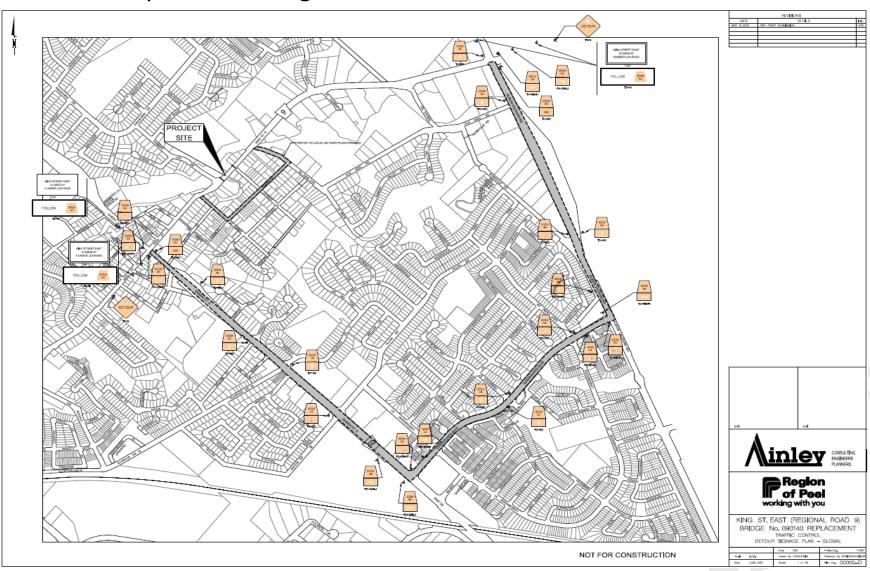




Global Detour Route



For use by traffic coming from outside of Bolton



Project Schedule & Contacts



➤ Construction is tentatively scheduled to commence Spring 2023 and anticipated to be completed by the end of 2023

For additional information, please contact:

Jerry Tan, C.E.T.
Project Manager
Region of Peel
10 Peel Centre Drive, Suite B, 4th Floor
Brampton, ON L6T 4B9
905-791-7800 ext. 7916
jerry.tan@peelregion.ca

Brian R. Wickenheiser, P.Eng., P.E. Bridges and Structures Group Lead Ainley Group 705-729-3371 ext. 240 brian.wickenheiser@ainleygroup.com