



Atlantic Industries Limited

PROJECT PROFILE



September 29, 2026

AIL's Ultra-Cor and MSE Walls deliver integrated solution for Vaughan's Kirby Road Extension

AIL supplied the Ultra-Cor Buried Metal Bridge and MSE Precast Panel Walls used for the East Patterson Creek crossing, a significant component of the City of Vaughan, Ontario's Kirby Road Extension. The major transportation project is creating a new east-west connection between Dufferin and Bathurst streets to support the city's continued growth.



Project at a glance:

Project Name: East Patterson Creek Bridge

Location: Kirby Road, Vaughan, Ontario

Owner: City of Vaughan

Consultant: Jacobs

Contractor: KAPP Infrastructure

Sector: Transportation

Application: Watercourse Crossing

Products: Ultra-Cor Structural Plate,
MSE Precast Panel Walls

Dimensions: Diameter 25.5 m, Rise 6.5 m,
Length 34 m

Installation Time: AIL portion of the work -
Start May 2025, Completed August 2026



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The buried metal bridge solution is designed for long service life, efficient material use, reduced maintenance and a lower carbon footprint compared with a conventional all-concrete structure. Skewed ends helped the structure to follow the watercourse and reduced steel costs.

Coordinated solutions for a complex site

The project presented a number of design and construction challenges. Ongoing changes to the road profile, grading and pathway required redesign of the headwalls, footing loads and wall layouts.

AIL worked closely with the consultant, contractor and rebar supplier to review revised drawings, verify site conditions and develop practical design solutions. These included layout revisions, rebar adjustments and coupler options.

Work began in May 2025 and continued even through winter conditions, with the project completed in August 2026. Close coordination, early design reviews and timely communication between all parties helped address changes quickly, minimize delays and control additional costs throughout construction.

AIL's involvement in both the bridge and retaining wall components provided an integrated approach to the project, helping coordinate multiple structural elements as part of one infrastructure solution.

The project showcases how engineered structural plate and MSE wall systems can help deliver critical municipal infrastructure efficiently while responding to the complex demands of a large-scale urban expansion project.

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