



Atlantic Industries Limited

PROJECT PROFILE



Custom MSE Retaining Walls play supporting role in new Calgary LRT station

When Calgary Transit's Northwest C-Train line was extended past Crowfoot to a new station called Tuscany Station, our MSE Retaining Walls were brought in to support a Park-and-Ride, a pedestrian bridge and then some.



Project at a glance:

Name: NW LRT Extension to Rocky Ridge / Tuscany

Location: Calgary, AB

Owner: The City of Calgary

Engineer: AECOM

General Contractor: Ellis Don

Wall Sub- Contractor: Wilco Contractors Southwest Inc.

Sector: Public Works

Application: Retaining Wall and Pedestrian Bridge Abutment

Product: MSE Retaining Wall System (Precast Panel Walls with custom finish)

Dimensions: 825 square metres



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Angled, smooth, textured, split-finished panels — no problem

Custom architectural design requirements for the precast panels on this job were challenging. They called for a custom use of textured, smooth and split-finished panels along a variety of angles. Kudos to our precaster, MSE Precast, who made multiple custom form liners to execute this ambitious design.

Adapting for winter conditions

Unforeseen overall project delays pushed the installation start-up into the winter season. We worked in coordination with the contractor and the owner's consultant to change the select backfill material and revise our design to suit cold-weather construction.

Adapting to change(s)

Unexpected obstructions and changes to the layout that came up late during the installation presented additional challenges. Most notable was the request from the City to account for the restored historic Eamon's Bungalow Camp sign that had to be installed on top of the MSE wall. This created additional loading and required a reinforcement design to accommodate the large concrete footings. We worked closely with all parties to provide a revised installation method and identified the work changes needed to keep the project on time and on budget.

This LRT station is built on the site of Eamon's Bungalow Camp and Gas Station, a favourite landmark for tourists travelling between Calgary and Banff for almost 70 years. Built around 1950 in the Art Moderne style, it featured a restaurant and cabins. The main building and its iconic sign remained as landmarks long after the business had closed. Perhaps all those angles and shapes inspired the architect for this station and our walls.



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