



Atlantic Industries Limited

# PROJECT PROFILE



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## AIL's Super•Cor and MSE Retaining Walls team up on one of Calgary's new luxurious community developments

### Box Culvert perfect solution: low-rise with excellent open flow hydraulic properties in case of flooding

An AIL Super•Cor Box Culvert and MSE Precast Panel Walls teamed up to make a unique and picturesque Emergency Access stream crossing in one of Northwest Calgary's leading residential developments — The Ridge at Sage Meadows, by Genesis Land Development Corporation.

The Super•Cor Box Culvert was the perfect solution for this low-rise application and it offered excellent open flow hydraulic properties in case of flooding. The MSE Precast Panel Wall Headwalls and Wingwalls finished off the structure nicely in a natural Ashlar Stone texture.

#### Project at a glance:

**Project Name:** The Ridge at Sage Meadows by Genesis

**Location:** NW Calgary, Alberta

**Owner:** Genesis Land Development Corporation

**Engineer:** EXP Services

**Contractor:** Volker Stevin Contracting

**Sector:** Urban Development

**Application:** Stream Crossing

**Product:** Super•Cor Box Culvert

**Dimensions:** Span 11.2 m, Rise 2.75 m, Length 9.91 m

**Product:** MSE Retaining Wall System (Precast Panel Walls and Vegetated Wire Walls)

**Dimensions:** Precast 2,000 m<sup>2</sup>, Vegetated 1,700 m<sup>2</sup>





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## **MSE Walls also used in other retaining walls in the development**

Five other locations in the Sage Meadows development also used matching Precast Panel Walls along the top and bottom of the new hillside home properties.

There also was a Vegetated Wire-Faced MSE Retaining Wall used. This green retaining wall application has a vegetated facing using local grass seeds and foliage. This growth disguises the retaining wall itself and blends it into the natural environment surrounding it.

This project evolved from a group of presentations we gave to the engineering firm, EXP Services, and the landowner, Genesis, several years ago during the project's infancy. We worked very hard to become part of the project team and were privileged to have signed a deal directly with the owner. The project itself took almost five years of planning and pre-work before it came to life and the finished product was well worth the wait and extra challenges it had along the way.

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Vegetated Wall, on the slope above the Precast Wall, in its growth infancy.



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