

## CROWCHILD TRAIL SHORT TERM IMPROVEMENT CALGARY, ALBERTA, CANADA

### Reinforced Soil Walls and Slope Reinforcement

#### Problem

Crowchild Trail is a critical part of Calgary's transportation network. It is the main north-south link across the west side of Calgary, and provides access to the city center and connects to major destinations across the city. City of Calgary had implemented short term and long term infrastructure upgrades for Crowchild trail for better connectivity in the future.

The short term improvement project had a couple of interchange upgrades which needed a precast concrete panel wall. This concrete panel acted as a false aesthetic fascia for a soil nail wall which consisted of a Maccaferri L panel wall complete with ground anchors by the general contractor Graham Infrastructure.

#### Solution

Maccaferri Canada approached Graham Infrastructure and proposed to use a retaining wall which can be built for a temporary application using welded wire panels (L Panels). This wall was designed for 6 months and provided the necessary stability while driving piles at 45 degree angle into the ground. The facing elements were black wire L panels (3mx0.45mx0.45m) with Non Woven Geotextile and reinforced with Uniaxial Geogrid, MacGrid WG.

**Client:** CITY OF CALGARY

**Designer / Consultant:** ISL ENGINEERING AND LAND SERVICES

**Contractor:** GRAHAM INFRASTRUCTURE LP

**Products used (Qty.)**

- Wire (NOT LACING WIRE) 540 SQ M

**Date of construction:** 08/2017 - 04/2018



Construction



Construction

