



Ground Improvement and Specialty Piling Contractors

# Project Summary

## Evergreen Line Rapid Transit (EGRT) Vancouver, BC

*The Premier Design-Build Geotechnical Contractor™*

### Cement Deep Soil Mixing (CDSM) and Helical Piles



*CDSM Installation and Spoil Management*



*Geotech QA Inspection*



*Complete Overlapping CDSM Configuration*



*Helical Pile Installation*

#### **Project Description:**

At-grade light rail slab and crash wall support, for EGRT light rail transport system. AGI, in conjunction with the GEOR, designed the ground improvement system to reduce seismic lateral spread and uplift displacements. The approach of installing CDSM and helical pile elements was incorporated in lieu of conventional driven piles to provide cost savings to the project and avoid potential issues caused by adverse obstructive material.

#### **Application:**

- ❖ Seismic mitigation
- ❖ Crash wall support and uplift resistance

#### **Geotechnical Conditions:**

- ❖ Fill and glaciomarine deposits
- ❖ Prevalent obstructions

#### **Design-Build Contractor:**

*AGI Foundation Contractors ULC, Canadian subsidiary of Advanced Geosolutions Inc (AGI)*

#### **Owner:**

*Province of British Columbia*

#### **General Contractor:**

*SNC Lavalin – Graham Joint Venture (SGJV)*

#### **Geotechnical Engineer:**

*EBA – Tetra Tech*