



# V-Verdun

## SHORING SYSTEMS

Soldier Pile Wall, Anchors, Shotcrete.

Execution of a 21.0 m excavation using a shoring system composed of an anchored soldier pile wall with shotcrete facing.

**TOTAL CONTRACT AMOUNT: 837,290 USD**

- The location of the V-Verdun project on a corner of the main Verdun Street presents a major constraint on the execution of the project in light of the residential nature of the area, the high traffic conditions and pedestrian crowding.
- MGM successfully completed the project ahead of the expected end date.
- Removal of the spoils was difficult in light of the critical position of the ramp requiring double-handling maneuvers.
- The soil profile consisted of a top fill layer, clay with gravel, cobbles and boulders, limestone rock and finally a sandstone substratum.
- The execution period of the project totaled 12 months.
- An existing soldier pile wall of 500 mm diameter piles with a toe level at mid excavation depth was previously executed before MGM took over. MGM executed a row of piles in front of the existing piles by lowering a drilling machine into the excavation.



*General View of Excavated Site Area*

<b>Client:</b>	<b>Trillium Development</b>
<b>Architect:</b>	<b>DNA</b>
<b>Structural Eng.:</b>	<b>Dr. Assad Kallassy</b>
<b>Main Contractor:</b>	<b>Dolmen Contracting</b>

### Main Quantities

1,300 lm of 1000 mm soldier piles
98 lm of 800 mm soldier piles
392 lm of 600 mm soldier piles
4,395 lm of Ground Anchors
165 lm of Capping Beam
1,554 m <sup>2</sup> of Shotcrete



*Excavation process underway*