

## Sandalwood Transit Facility Expansion Brampton, Ontario

### | Challenge

This project consisted of a new maintenance facility to be built adjacent to an existing transit storage facility and parking lot. Poor soil conditions beneath the proposed maintenance facility's footprint mainly consisted of a thin layer of topsoil or asphalt, a granular base and granular subbase. This was underlain by a soft to very stiff silty clay to clayey silt fill layer.

### | Solution

The Geopier GP3® system was ultimately selected for its rapid installation, cost-effectiveness and flexibility in allowing for the opportunity to address changing ground conditions as they happen. Furthermore, it was chosen as an alternative to massive over-excavation and replacement or deep foundations, including driven piles, drilled shafts or auger cast-in-place piles.



*Sandalwood Bus Facility in Brampton*

### | Outcome

The Geopier GP3® method effectively supported the floor slab of the bus maintenance facility for positive settlement control. Utilizing the GP3 method proved to be advantageous for both the project budget and schedule.

**General Contractor**  
Percon Construction

**Structural Engineer**  
Read Jones Christoffersen

### Project Team

**Geotechnical Engineer**  
WSP Canada

**Architect**  
Moffat & Duncan

**Owner**  
City of Brampton

**Ground Improvement - Rigid Inclusions - Piling Systems - Slope Stability - Ground Reinforcement**

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