

Canadian Blood Services Building Brampton, Ontario

| Challenge

An addition to the existing building was required to better facilitate the lifesaving demands of this facility. Existing soil conditions consisted of up to 2 meters of stiff to very stiff clayey silt and silty sand fill underlain by stiff to very stiff clay, with high groundwater. The fill, groundwater, and proximity to the existing facility made over-excavation of the site a daunting and costly task.

| Solution

After careful consideration, the Geopier GP3® system was selected for its cost-effectiveness, excellent settlement control, versatility and superior effectiveness, when compared to over-excavation and replacement and also deep foundations.

| Outcome

The Geopier GP3 system was installed rapidly and effectively supported the building additions foundation offering maximum slab support in poor soil at a fraction of the cost or time of other the traditional approaches. Additionally, it allowed for the visible inspection of the treated soils during drilling, as well as the opportunity to closely monitor changing ground conditions as they happened.



The 28,000-square-foot laboratory addition on Parkshore, was part of an \$83 million capital investment by Canadian Blood Services. Approximately 400 people are employed at the centre

Project Team

G.C./Owner
REA Construction

Structural Engineer
NORR

Geotechnical Engineer
Amec Foster Wheeler

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

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