

Ross Memorial Hospital Lindsay, Ontario

| Challenge

A dialysis unit was to be added as a new wing on the main hospital. Construction noise and vibration were of major concern due to patients and very sensitive equipment. The subsurface profile consisted of 1 to 6.5 m of mixed fill with thick peat and organic layers evident in several borehole logs. The fill and peat were underlain by a competent sandy silt till.

| Solution

The Geopier® GP3® system was used to successfully reinforce the subsoils for the slab of the new hospital addition. The system was used to avoid massive overexcavation and replacement of up to 6 m of earth fill containing organics and a high-water table.

| Outcome

The Geopier system provided the team with flexibility on future sub-slab utility alterations, by allowing for an unreinforced slab on-grade and avoiding a costly caisson supported structural slab. The project was completed without significant vibration or noise and hospital operations were not disrupted by the Geopier system installation.



Construction of this important new hospital addition was completed rapidly using the Geopier GP3®

Project Team

Geotechnical Engineer
Geo-Logic Inc.

Structural Engineer
Stantec Consulting Ltd.

General Contractor
Bondfield Construction

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

Before you Remove It or Go Through It, contact us to *Improve It*
at (905) 266-2599 or email us at solutions@geosolv.ca