



# Ross Memorial Hospital Dialysis Unit

Lindsay, Ontario

**The Geopier GP3® system was constructed during regular hospital operations with no disruption from noise or vibrations**

**Description:** A 500 m<sup>2</sup> semicircular addition was added as a wing off of the main hospital. Construction occurred during regular hospital operations with no disruption from noise or vibrations.

**Subsurface Conditions:** The subsurface profile consisted of 1 to 6.5m of mixed fill with thick peat and organic layers evident in some borehole logs. The fill was underlain by a competent sandy silt till.

**Geopier Solution:** The Geopier GP3® system was used to successfully reinforce the subsoils for the slab of the hospital addition in order to avoid massive overexcavation and replacement of up to 6m of earth fill with organics and a high water table. The Geopier system provided the team with flexibility on future sub-slab utility alterations by providing for an unreinforced slab-on-grade. The original design called for a caisson supported structural slab which was eliminated through the use of Rammed Aggregate Pier® elements.



### PROJECT TEAM

**Geotechnical Engineer:**  
Geo-Logic Inc.

**Structural Engineer:**  
Stantec Consulting Ltd.

**Architect:**  
Parkin Architects Limited

**Project Manager:**  
Devon Facility Support, Inc.

**General Contractor:**  
Bondfield Construction Company, Ltd.

**Geopier Designer/Installer:**  
GeoSolv Design/Build Inc.