

Foodland & L.C.B.O. Thornbury, Ontario

| Challenge

Construction of a Foodland Supermarket and an LCBO outlet was planned on a greenfield site near Lake Huron that contained a sandy, fill, and peat laden soil, which had a natural bearing capacity of 50 kPa SLS and 75 kPa ULS. This was considered unsuitable for the construction and overall stability of these two commercial structures. Through a GeoSolv's consultation, it was determined that the Geopier GP3® system could provide 150 kPa SLS and 225 kPa ULS bearing capacity and provide uplift control where necessary.

| Solution

The Geopier® GP3 system was installed quickly and efficiently with over 35 elements being installed per day. Threadbar harnesses were added to Geopier elements to provide uplift capacity without detriment to the compressive capacity of those elements. The Geopier system provided a floating foundation on an engineered crust of soil, where one was not present naturally, reducing the project cost as compared to deep foundations.

| Outcome

Winter construction and rapid installation improved the overall construction projects schedule and cost efficiencies.



Utilizing Geopier's GP3® system allowed for winter construction to take place on this important project

Architect

Venchiarutti Gagliardi Architect
Inc.

Geotechnical Engineer

Alston Associates

Project Team

Structural Engineer

Y & V Engineering

General Contractor

Rankin Construction

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

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