

7620 Marie-Victorin

Brossard, Québec, Canada

Upon the discovery of differing ground conditions, Keller provides design-build solution to get project back on track.



The project

A 12-story condominium building was constructed with 1 to 2 basement levels. The site was bordered on the North and South by other residential properties, a main road to the East, and the Saint Lawrence River to the West. Initial designs called for a raft, or mat, foundation to distribute the load of the building across a larger surface area.

The challenge

Once foundation work began, weaker soils were present at the bottom of the excavation than originally thought. A ground improvement solution was required to strengthen the soils and get the fast-tracked project back on schedule.

The solution

Driven piles were recommended, but the general contractor set to find a more cost-effective solution that still strengthened the soil to meet project specifications. Keller proposed a rigid inclusion design to meet the client's requirements and was awarded the contract. Approximately 20,000 SF (1858 sq. meters) of the area was treated with over 265 rigid inclusions. Not only did Keller's work exceed project expectations, but they were able to get the project back on schedule.

Project facts

Owner(s)

Maxera

Keller business unit(s)

Keller

Main contractor(s)

Vinac Construction

Engineer(s)

Keller, BES (Bureau d'étude spécialisé)

Solutions

Ground improvement

Markets

Residential

Techniques

Rigid inclusions

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