NEW CHAMPLAIN BRIDGE

- LOCATION

  Montreal - Canada

- CLIENT

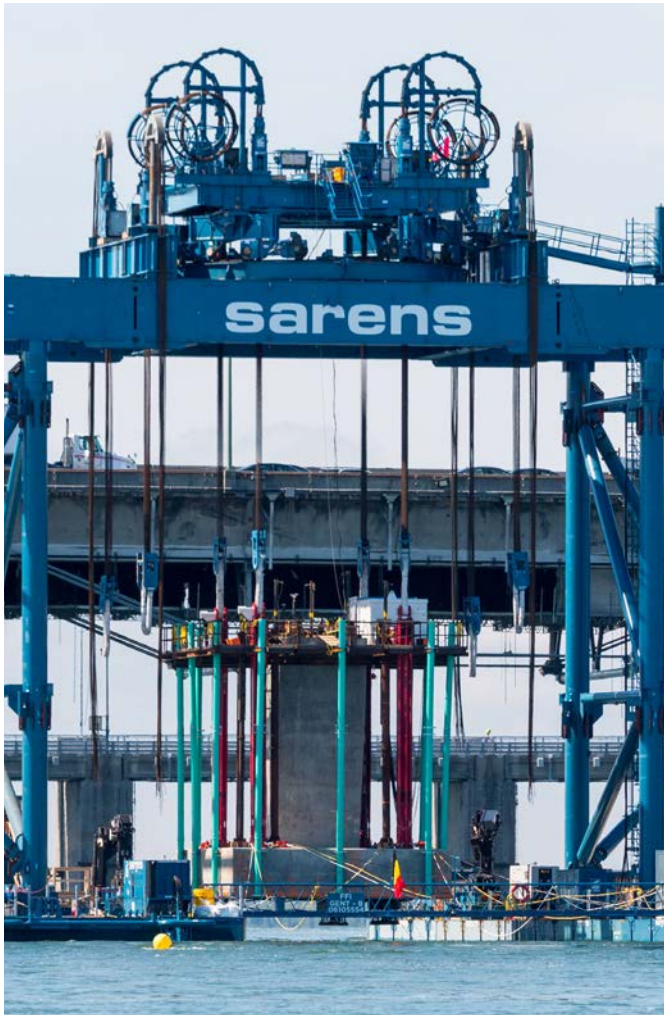
  SSLC – Signature sur le Saint-Laurent

- PROJECT SUMMARY

Sarens installed footings for the New Champlain Bridge over the Saint Lawrence river.

The bridge will be made up of 74 footings, 38 of which were prefabricated at the jetty, while the 36 other footings will be made by pouring concrete directly into foundations in the river bed.

Each footing is 11 x 11 x 2m (or 11 X 9 X 2m) and comes with a pier starter, giving the overall assembly a height of up to 14m. The weight of each footing ranges between 600 and 1.000t.



CHAMPLAIN BRIDGE
SUCCESS

• OBJECTIVE

Sarens was commissioned to install 38 footings for the New Champlain Bridge in Montreal.

The Saint Lawrence crossing (Champlain Bridge) is part of a vital overland link for freight transportation between Canada and the United States and also used by residents of the metropolitan region for their everyday commute.

• SOLUTIONS

Since there were no Canadian vessels able to service within the constraints of the project, Sarens offered a unique solution by designing and building a bespoke installation device, the Floating Foundation Installer (FFI). The FFI is a purpose-built self-propelled catamaran with gantry that can lift, transport and install foundations by its own means. It is outfitted to operate in strong currents and to lift and transport parts that can weigh up to 1.000t. The lifting equipment has a turntable, allowing for a 180-degree rotation of the parts.

The FFI consists of the following equipment:

- Sarens modular barges (SMB)
- Sarens Multi Lifting Tower (SMLT)
- Sarens gantry, bogies, and Strand Jacks

• RESULTS

- As a result of world-class development, design, planning and safe, disciplined execution, the project was successfully completed.
- Factors contributing to the success included a strong emphasis on safety and highly experienced Sarens team.