

CITY GOVERNMENT

Metal Roof Provides Long-Term Solution
for Water Storage Facility and Pumping Station

Region of Peel West Brampton Reservoir and Pumping Station | Brampton, ON | Canada

CHALLENGE

The City of Brampton located in the Region of Peel near Toronto, Ontario, has experienced rapid growth in recent years, averaging a population increase of 20,000 per year for several years. The large influx of people moving into the area spurred the construction of a new water storage facility and pumping station on the western edge of the city to accommodate the growing population. It will be the second major facility to be built in the last five years, and Anthony Parente, manager for Capital Works, Water Division for the Region of Peel Public Works, wanted to ensure the new facility would have a long-term, high-performance roofing solution capable of withstanding harsh environmental conditions. Aside from the performance requirements, region officials wanted the facility’s architecture to blend in with that of the surrounding area. Parente explains, “Because the facility sits conspicuously in the middle of nowhere, the region wanted us to maintain the area’s rural, agricultural heritage.”

SOLUTION

Toronto-based architectural firm, Brown + Storey Architects, Inc., created the architectural drawings and looked to Garland Canada Inc. representative, Charbel Boulos, to help develop technical specifications to meet the region’s specific performance objectives. In keeping with the interests of the region, the architectural firm designed the facility to resemble a modernized version of an old-fashioned barn.

“Our relationship with Garland has spanned almost 10 years now. Because of that, we know we will always have a very reliable roofing product whether it is a metal system or a built-up roofing system.”

Anthony Parente
Manager for Capital Works
Water Division for the Region of Peel Public Works

Based on the project’s performance requirements, Boulos recommended the installation of Garland’s R-Mer® Span structural standing seam roof system due to its industry-leading performance in windstorm and water penetration resistance. The 18-inch, .040” aluminum panels provide the durability and strength needed for a long-term, high-performance solution. Due to the various changes in plane on the 20,000-square-foot roof, knee joints were engineered on site, providing continuous 65-foot panels. “The Region of Peel is a very forward thinking community, so it’s rewarding to be able to provide them with a metal roof system that could last them 50 years,” Boulos explains.

In addition to the metal roof system, more than 70,000 square feet of Garland’s HPR® Polyscrim Plus continuous filament, polyester felt with flood coat was installed on the roof of the underground water storage facility. Boulos, a licensed professional engineer, coordinated the project with the general contractor, King City Group, Ltd., of Toronto, to ensure its successful completion.

Parente credits the success of the project to Boulos’ diligence in visiting the site daily and looking after the owner’s best interests. Parente concludes, “Our relationship with Garland has spanned almost 10 years now. Because of that, we know we will always have a very reliable roofing product whether it is a metal system or a built-up roofing system.”

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Charbel Boulos

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- Project:** Region of Peel West Brampton Reservoir and Pumping Station
- Location:** Brampton, ON, Canada
- Garland Rep:** Charbel Boulos
- Architect:** Brown + Storey Architects, Inc.
- Contractor:** King City Group, Ltd.
- Materials:** HPR® Polyscrim Plus
R-Mer® Span