



**SOLENO**

Mastering Storm Water

THE MOST  
**POWERFUL**  
APPROACH FOR STORM WATER MANAGEMENT

## HORIZON HOUSING COMPLEX IN ST. ALBERT, ONTARIO

**Storm water collecting: a simple and economical solution offered by Soleno**

Satisfied with Soleno's high density polyethylene products (HDPE) for its Public Works projects, the town of La Nation has, for several years, standardized the use of HDPE pipes, manholes and catch basins in its public works specifications.

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## THE CONTEXT

LGN Horizon, contractor, approached the town of La Nation to get its approval of plans and specifications for a new housing project called Horizon to be built in the village of St. Albert. This major project involves the installation of a storm sewer to service 40 duplexes, two 8-unit buildings and 15 single family houses. When reviewing the plans and specifications, Mr. Marc Legault, Director of Public Works, recommended the use of HDPE products for manholes, catch basins and connecting pipes rather than the concrete that was already specified. A meeting with the engineering firm LRL Associates Ltd. was needed in order to specify the HDPE products in the plans and specifications.

## THE SOLUTION

Mr. Guy Legault, contractor and owner of LGN Horizon, chose the HDPE capture solutions offered by Soleno. The products involved were 33 catch basins of 600 mm (24 in) in diameter and 10 manholes 1200 mm (48 in) in diameter, and several pipes of different diameters, from 250 mm (10 in) to 750 mm (30 in).

## THE BENEFITS

According to Mr. Guy Legault, the pipes 6 m (20 ft) in length have greatly increased the speed of installation and reduced the number of joints, compared to traditional concrete systems. The pipes being easier to handle, a small construction crew quickly did the work. Moreover, unlike traditional manholes, those made of HDPE need no oversizing. This feature allows for the reduction of the manhole diameter, resulting in savings on the purchase and installation, important factors in the project.

For their part, the town's Public Works department indicates that when it comes to health and safety matters on site, they prefer installing HDPE structures. Moreover, because of their light weight, HDPE products do not require the use of cables and heavy equipment, facilitating installation and speed of execution, factors highly appreciated by the town. In addition, Mr. Marc Legault declares that since they've been using HDPE structures, there has been much less deterioration of the pavement due to freeze/thaw cycles, thereby reducing the number of complaints from citizens.



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