



Enterprise Rent-A-Car Stormwater Management



Enterprise Rent-A-Car installs Stormwater Chambers to manage stormwater and maximize land area.

LOCATION:

Prince George, British Columbia

PRODUCT:

Stormwater Chambers

PROJECT PARTNERS:

Owner

Enterprise Rent-A-Car

Consultant

Scouten & Associates Engineering Ltd.

Contractor

CasMan Developments Ltd.

Completion Date

September 2014

A new Enterprise Rent-A-Car location being built in Prince George, British Columbia was looking for an innovative solution to control stormwater. Enterprise Rent-A-Car is an international car rental company with more than 7,000 neighborhood and airport locations throughout North America and Europe.

Challenge

Enterprise Rent-A-Car, along with the project engineer, was seeking an effective method to manage stormwater runoff prior to releasing it into the City of Prince George's stormwater infrastructure. They required a Low Impact Development (LID) stormwater management solution to lessen the impact of the project on the surrounding community.

Solution

After consulting with the engineer, Nilex recommended a low-profile Stormwater Chamber. Stormwater Chambers are designed as underground retention systems allowing stormwater to be contained on-site and released into the City's stormwater system or infiltrated into the ground at a controlled rate. Their perforated sidewalls and full open bottom help maximize infiltration capability. Nilex's Stormwater Chambers are made of high-density polyethylene (HDPE) which are resistant to most chemicals found in stormwater runoff and can be used in place of swales, ponds, concrete structures or pipe installations.



Unearthing better results.

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Installation

The chambers were installed in trench configurations beneath the parking lot to maximize land area and allow for further site development. The chambers were placed by hand and backfill was placed over the entire bed area. The site was excavated and levelled according to the design requirements.

The installation was completed by a crew of only three people over two days. Nilex provided on-site assistance throughout installation.



Results

Nilex's Stormwater Chambers provided Enterprise Rent-A-Car with an LID solution that will manage stormwater on-site and meet traffic loading criteria. Installing the Stormwater Chambers underground maximized the available parking spaces and minimized the projects effect on the community. The stormwater runoff rate was well within the City's flow rate limits.

The Nilex Advantage

Nilex is committed to unearthing better results. Whether it's for a civil, resource or environmental project, we offer the latest engineered and technically superior materials and techniques to save our customers time and money, and minimize the need to move or remove earth, and reduce the need for granular materials.

With over 35 years experience, a long-standing commitment to the environment and highly qualified staff, Nilex delivers the products and technologies that give clients an economic advantage with environmental benefit.

