



# Lowe's Parking Lot Drainage System



**Nilex's recommended stormwater management system maximizes parking space.**

**LOCATION:**

*Calgary, Alberta*

**PRODUCT:**

*Stormwater Management System*

**PROJECT PARTNERS:**

*Owner*

*Lowe's Home Improvement Warehouse*

*Consultant*

*Urban Systems*

*E2K Engineering*

*Contractor*

*Contour Earthmoving*

*Completion Date*

*October 2009*

The development of the new Lowe's hardware store at Cross Iron Mills Mall was faced with strict guidelines for managing their parking lot stormwater run-off

The Municipal District of Rockyview provided a mandate that the store needed to contain the stormwater run-off and infiltrate it back into the ground water system.

## Challenge

The challenge was to incorporate a stormwater storage system that would not compromise the maximum parking space and would be sufficient to hold the overflow of precipitation from the parking area.

## Solution

Nilex, along with the supplier and E2K Engineering designed the stormwater management system using HVLV V8 chambers. The chambers replace conventional stormwater retention/detention systems such as ponds, swales, pipe and stone trenches, or concrete structures. The system requires no maintenance, is offered in a variety of sizes to accommodate almost any site constraint.

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## Installation

The site was prepped and excavated for the placement of the V8 chambers beneath the parking areas. 307 m<sup>3</sup> of storage was required for bed number one and 172 m<sup>3</sup> of storage for bed number two. The chambers were placed according to the supplier's design, stone was poured on top then a compaction material was placed to the proper design elevation.

## Results

Lowe's Stormwater Pollution Prevention Plan along with the stormwater management system meets municipal requirements in regards to controlling run-off during construction, proving to be an environmental benefit to the city's stormwater system.

The stormwater chambers also eliminated the need for a stormwater pond, acting as a substitute, catching run-off water before infiltrating it back into the ground water.



There was significant savings on this project using Nilex's recommended stormwater management system. Installing the chambers underground capitalized on space, allowed for greater runoff storage and, maximized the number of parking stalls on the property.

## 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.

