



Park Place Seniors Village, Meadow Ridge



Stormwater Chambers control water infiltration without sacrificing land area.

LOCATION:

Medicine Hat, Alberta

PRODUCT:

Stormwater Chambers

PROJECT PARTNERS:

Owner

Park Place Seniors Living

Consultant

Stantec

e2K Engineering Ltd.

Contractor

Clark Builders

Industrial Backhoes Ltd.

Completion Date

May 2014

Meadow Ridge Seniors Village in Medicine Hat is a supportive living site being constructed by Park Place. The new residence will provide 80 subsidized suites for seniors.

Challenge

The project was originally designed with concrete chambers to handle stormwater runoff beneath the parking lot, a walking trail and the landscaped courtyard. The site soils were very saturated and a high water table was a main concern. Due to design changes during the project, the client required an alternative solution to the concrete chambers that would prove to be cost effective while decreasing the installation time.

Solution

Nilex recommended removing the concrete chambers and replacing them with Stormwater Chambers. In addition to being less expensive, less time consuming and safer to install, the placement of the stormwater system underground allows for site development without sacrificing land area while also allowing for controlled infiltration into the ground.

PARK PLACE SENIORS VILLAGE, MEADOW RIDGE

Installation

The install was completed in two stages in two separate areas. The contractor was able to stage the material around the excavation while switching from concrete chambers to Nilex's recommended stormwater chamber system eliminated the need for heavy equipment as the product could now be installed by hand. The stormwater chambers were easily installed by a three man crew with each section requiring less than a day for placement. Two men placed the chambers while one placed the washed stone fill. The install required less area and crushed stone in comparison to conventional systems. Nilex provided on-site assistance during install.



Results

Using Nilex's solution allowed the client to reduce costs and production time dramatically. The stormwater chambers provided a cost savings of approximately \$400,000, decreased the installation time by four days and required only a single truck load to the site.

The alternative concrete chambers would have needed six truck loads. The stormwater system was stamped as a component of the design build process and accepted as an approved alternative. In the end, Nilex was able to assist with the design build and removal of an expensive product with technical and economic certainty.

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.

