



Hydraulic Engineering

Seepage Control

Canal Lining Project, Boise, Idaho USA

Canal installation with Canal³® 123012



Completed lined canal section



Installation of Canal3 123012 by Boise Project Board of Control personnel

Task

The New York Irrigation District was established in the late 1800's and is managed by the Boise Project Board of Control. Over the years, placement of various materials to reduce seepage have been placed in the canal. Despite the attempts to reduce seepage in the canal using concrete and asphalt, none have been able to prevent seepage from the canal. Today, a majority of the canal is lined with residential properties which pose issues with seepage as many have basements.

Solution

In order to eliminate the seepage, the Boise Project Board of Control discussed if HUESKER'S Canal³ 123012 geocomposite could be used as a solution to

control the seepage. Further discussions led to a site visit to inspect and to obtain feedback from an Irrigation District that was located in Washington State who had installed Canal³ material beneath 3-inches of concrete.

As a result of this site visit, the Boise Project Board of Control for the New York Irrigation District determined that HUESKER'S Canal³ 123012 geocomposite could be placed beneath 6-inches of concrete to resolve the seepage issue. Using their own employees, the Boise Project Board of Control then removed all layers of past installed materials in a section of their canal and then installed Canal³ 123012 directly on the existing cleaned subgrade, and then placed 6-inches of concrete above. Plans call for the entire 26-mile canal be lined as funds become available.





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Anchor trench across end of canal section for future installation



Installation of concrete screed and #4 rebar for placement of 6-inch concrete

Advantages

HUESKER'S Canal³ 123012 geocomposite was chosen by the Boise Project Board of Control due to its roll width of 25 feet, its resistance to installation damage (durability), and that concrete bonds extremely well to the top polypropylene nonwoven of the geocomposite.

Business Area: Hydraulic Engineering

Segment: Waterways

Application: Canals

Project: New York Irrigation District Canal Lining Project

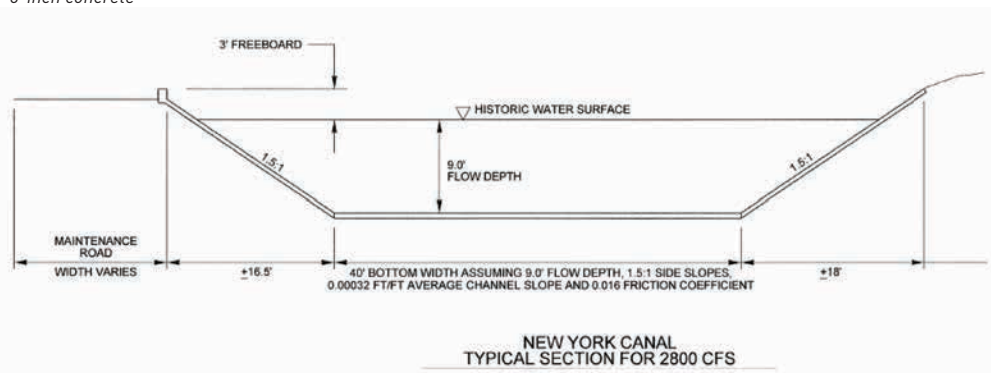
Location: Boise, Idaho

Client: The Boise Project Board of Control

Contractor: The Boise Project Board of Control

Construction Period: Dec 2014 – Nov 2015

Material: Canal³ 123012



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