

# CASE STUDY MEDIREVV

## FocalPoint High Performance Biofiltration System

**1** Gravel base in place and laser leveled.



Project	MediRevv Facility
Location	Coralville, IA
Date	July 10, 2014
Contractor	Stevens Landscaping
Salesperson	John Parenza
Owner	MediRevv
Engineer	MMS Consultants

**2** Modular tank underdrain installed to handle high-flow media.



## THE CHALLENGE

The project was to retrofit an existing 2,000 square foot bioretention cell that wasn't performing properly. Sediment clogged the biofiltration aspect of the basin and it did not work as intended.

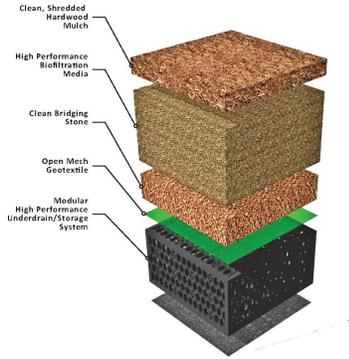
**3** Micromesh separator still exposed as washed pea gravel placed on top.



## THE SOLUTION

Quick Supply provided a preliminary design proposal based on the drainage information provided for the site. Stevens Landscaping along with John Parenza from Quick Supply installed a much larger system since the drainage was expanded. 260 square feet of Focal Point was installed in one day. It was sealed off from use with a non-woven geotextile to keep sediment from causing damage to the system. The system is guaranteed to drain water at 100 inches per hour as defined in the "Rub-I Infiltrometer test, Determining In Situ Hydraulic Performance of High Flow Rate Bioretention Media."

# THE PRODUCTS



**4** Final grading of the media before the mulch is installed.



**5** Mulch is installed while a hydraulic conductivity test is being performed to ensure flow rates.



**6** Since ground around Focal Point is not stabilized, the system is completely sealed off to keep sediment from plugging it.



**7** After sodding, the system was opened up, tested again for flow, and "commissioned" for use.

## THE RESULTS

On September 25th, the geotextile was removed, along with a great deal of sediment, and the filter was commissioned. The system passed the Infiltrometer test with flying colors.

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