Case Study
168th & West Maple Road Bioswale, Omaha, NE

Location Map

Pre-Project (2008)

Aerial View – Pre Project
Plan Elements

- Drop Structure
- Grade control
- Sand filter/Amended soil
- Soil Reinforcing Material

Grade Control Locations

Construction Begins April 19, 2010

April 23, 2010, The Beginning...
Construction continues
0.91” Rain
- April 29, 2010
- April 30, 2010

Underdrain Configuration
May 3, 2010

Amended Soil
May 5, 2010

Compost on Side Slopes
May 6, 2010
May 11, 2020 (after 0.6” Rain)

May 14, 2020 (after 0.97” Rain)

Damage Repaired, Hydromulch applied May 19, 2010

Green Armor on Check Dam May 19, 2010
May 19, 2010

May 20, 2010 (0.55” rain)

May 27, 2010

Finishing the upstream reach
Then June Happened...

June, 2010 Precipitation

June 8, 2010

June 10, 2010
Observations

- Take system off line if at all possible during construction.
- Details for should be very clear in plans
- Conditioning soil on slopes not recommended
- Sand filters and amended soils recommended for off-line conveyance systems only.

Repair

January 5, 2012