

Project Location: Nevada, Iowa

Project Overview:

- To develop a runoff control system on a space limited, flat area with high water table. The producer wanted to increase the numbers of animals fed at the site to justify the added cost of the pollution control system

Project Services:

- Consultation with producer to propose various options
- Completion of detailed topographic survey
- Water table and existing subsurface drainage infrastructure on site
- Soil permeability and soil infiltration testing
- Design of an alternative technology runoff control system that utilized three separate Vegetative Infiltration Basins (VIB) and three Vegetative Treatment Areas (VTA) to (1) temporarily store and pretreat runoff effluent in VIB's prior to infiltration in VTA's. VIB's were installed with subsurface drains to collect stored and treated effluent. Pumping stations and effluent distribution systems designed to apply water from VIB's onto VTA's for final treatment.
- System is being monitored by Iowa State University to determine effectiveness compared to conventional system.

Photos:



Original site with 1500 head of cattle



Completed Project: After construction and during vegetation establishment with 2600 head of cattle

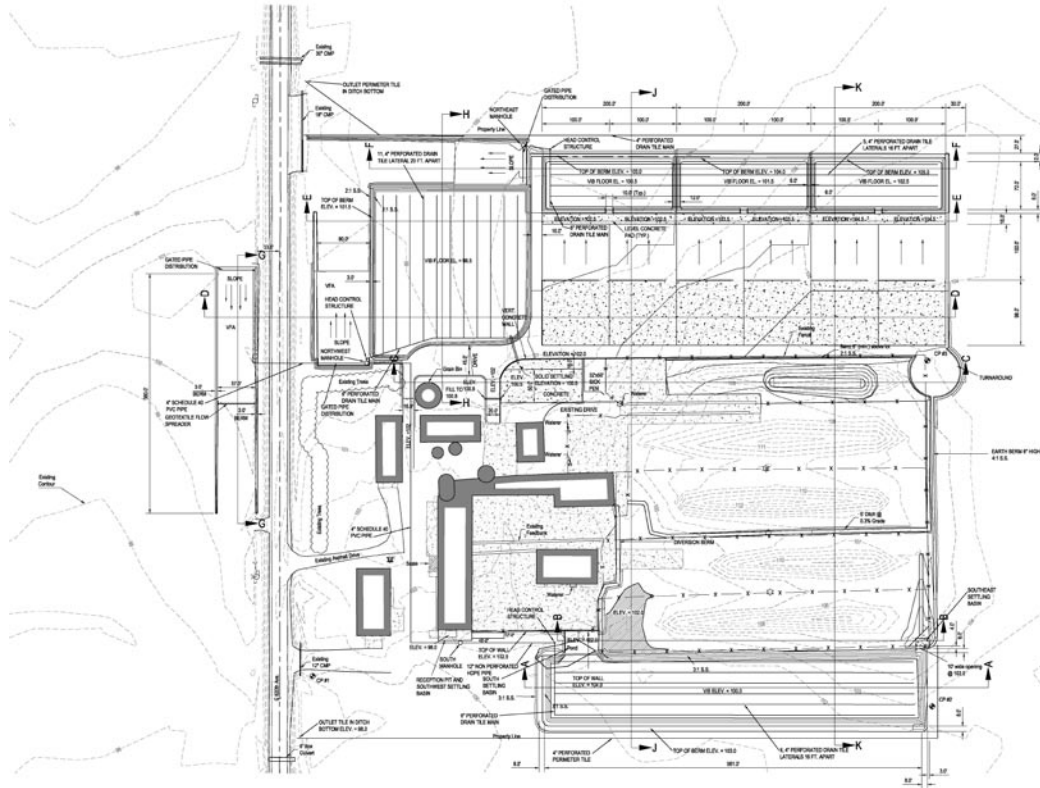


Completed Vegetative Treatment Area



ISU Monitoring System

Drawing Samples:



Site plan