

City of Hiawatha Ravine Repair Projects

Hiawatha, Iowa



Project Description:

Hall & Hall Engineers completed site surveying, design, and civil engineering services for ravine repairs near Dry Creek in Hiawatha, Iowa. The project involved stabilizing two severely eroded ravines with unstable, nearly vertical banks in several areas.

The HHE team worked with city stakeholders to recommend a vegetated tied concrete mat system for the following reasons:

- Provides high-strength, permanent erosion control that conforms to slopes, enabling the HHE team to design a solution that minimizes tree removals
- Supports healthy vegetation to help filter contaminants and establish a root system to further increase slope stability.
- The low profile of the mat prevents debris or logs from catching, helping to keep the waterway open for positive flow



Reference:

John Fitch, PE – Hiawatha City Engineer (319) 393-1515

Project Features:

Where shear stress and flow rates were within an acceptable range, a lower cost synthetic turf reinforcement mat was utilized

Soft-hand grading approach to blend improvements into the existing site

A stable, walkable approach to experience Dry Creek was created



HALL & HALL ENGINEERS, INC.

1860 BOYSON ROAD • HIAWATHA, IOWA 52233



319.362.9548

www.halleng.com