Application: Hybrid Barriers
Product: HEA Panels & Hybrid Barrier System

Introduction
The Preservation Program Project stabilized two rock slopes above US2, five miles west of Leavenworth, Washington in Tumwater Canyon. These rock slopes were identified for stabilization by the Washington Department of Transportation (WSDOT) Unstable Slope Management Program. The WSDOT Geotechnical staff evaluate such factors as catchment area, frequency of slope failures (rockfall incidents), and how often the driving lanes were impeded.

Solution
Stabilization techniques included the scaling of rocks from the slopes, removal of trees and debris, and installation of rock bolts and Maccaferri’s patented High Energy Absorption (HEA) Cable Net Hybrid Barrier Attenuator.

This project reduced the potential for falling rocks and trees that could create a hazard on the roadway. It led to the increased stability of the rock slopes and a reduction in maintenance costs due to fewer pavement repairs and less rockfall clean up. Additionally, the widened ditches increased snow storage and prevented rocks and debris from reaching the roadway.

Client:
WASHINGTON DEPARTMENT OF TRANSPORTATION

Main Contractor:
ROCK AND COMPANY

Designer:
WASHINGTON DEPARTMENT OF TRANSPORTATION

Products used:
MACCAFERRI HEA PANELS AND ATTENUATOR

Date of Construction:
SUMMER 2011

The Maccaferri HEA Hybrid Barrier System was chosen because it outperformed all other hybrid barrier systems recently tested by the Colorado Department of Transportation full-scale testing. Custom-colored PVC wire mesh was also selected for perfect integration with the surrounding environment.

Pre-Construction - July 5, 2011

During Construction - November 15, 2011

Click here to contact our technical department for assistance on your project.