PRODUCT: MacMat RP8 & Gabions

The Problem

Due to the concretization of the neighborhood from a nearby residential subdivision, an apartment complex, and a school, the heavy rainfall and storm water runoff caused massive erosion on the banks of a nearby creek with 2:1 slopes and a 0.5% channel gradient along with the foundation soil of a heavy traffic road.

The Solution

The solution for this problem was to install structurally sound concrete box culverts underneath the roadway to support the road and allow water to run under it instead of over it. Directly outside of the box culvert were concrete wingwalls. Limestone filled gabions were installed directly after the wingwalls to hard armor the slopes. In order to make the project more cost effective, the owner and engineer decided to use MacMat R8P to reinforce the very steep slopes. The MacMat R, while saving the contractor time and money, would also allow for vegetation to establish which created a “green” aspect that concrete would not.