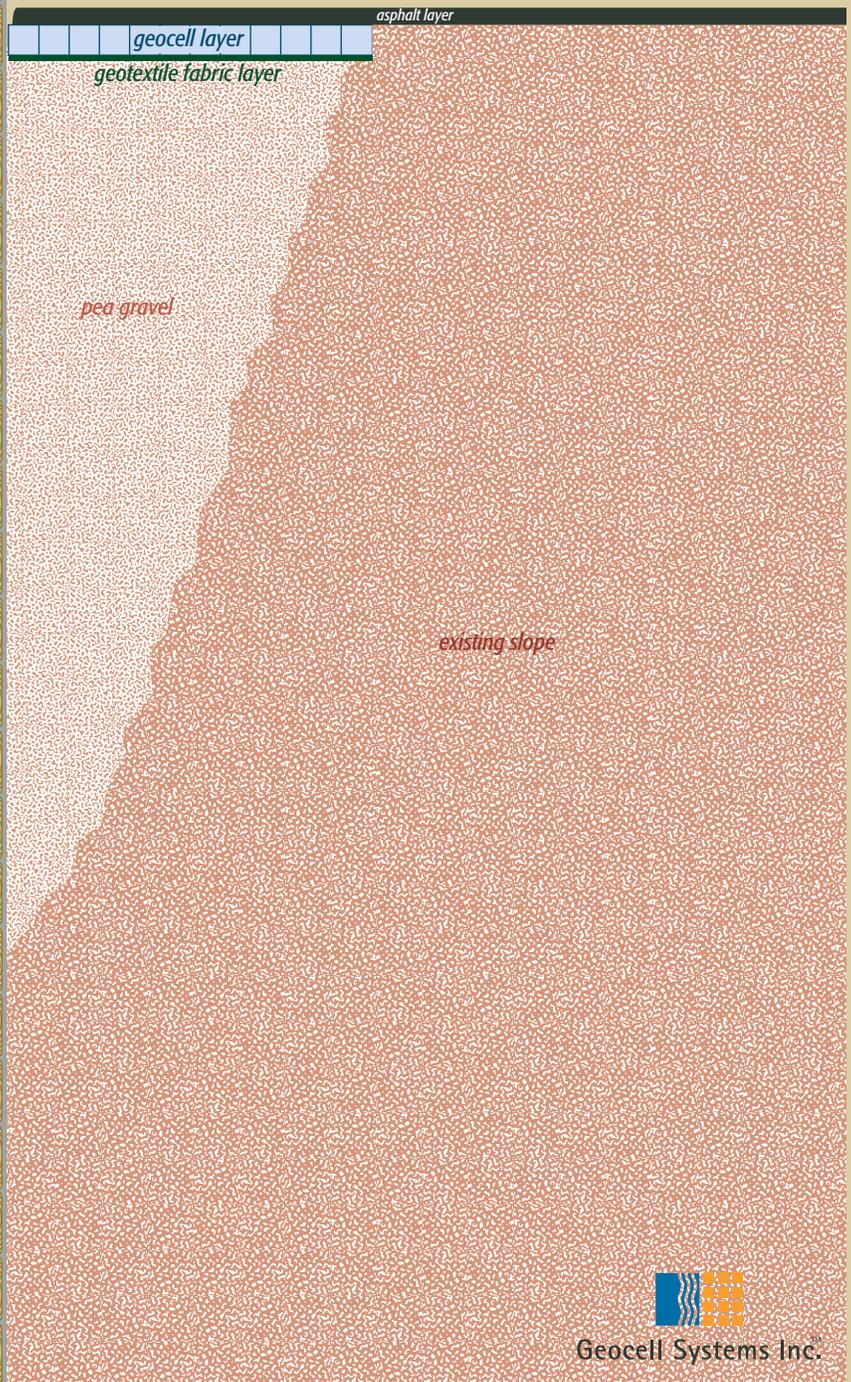


Sliver Fill

Geocell Systems' RDFW Fills Multiple Roles

In 1998, heavy rains in California caused substantial erosion damage to many roads. In Portola Valley, outside of San Francisco, the Federal Highway Administration (FHWA) was tasked with repairing nine rotational-failure slipouts and embankment erosion caused by a high-velocity stream running alongside Alpine Road. These slipouts required the construction of sliver fills, one of the more complicated and technical aspects of road repair.

To accomplish this task, FHWA and A.M. Arellanes Construction employed Geocell Systems' Rapid Deployment Flood Wall (RDFW) for several phases of construction. Not merely a floodwall, RDFW was employed for building the stream-diversion walls below the road, for the construction of retaining walls, and in the stabilization of the road shoulder itself.



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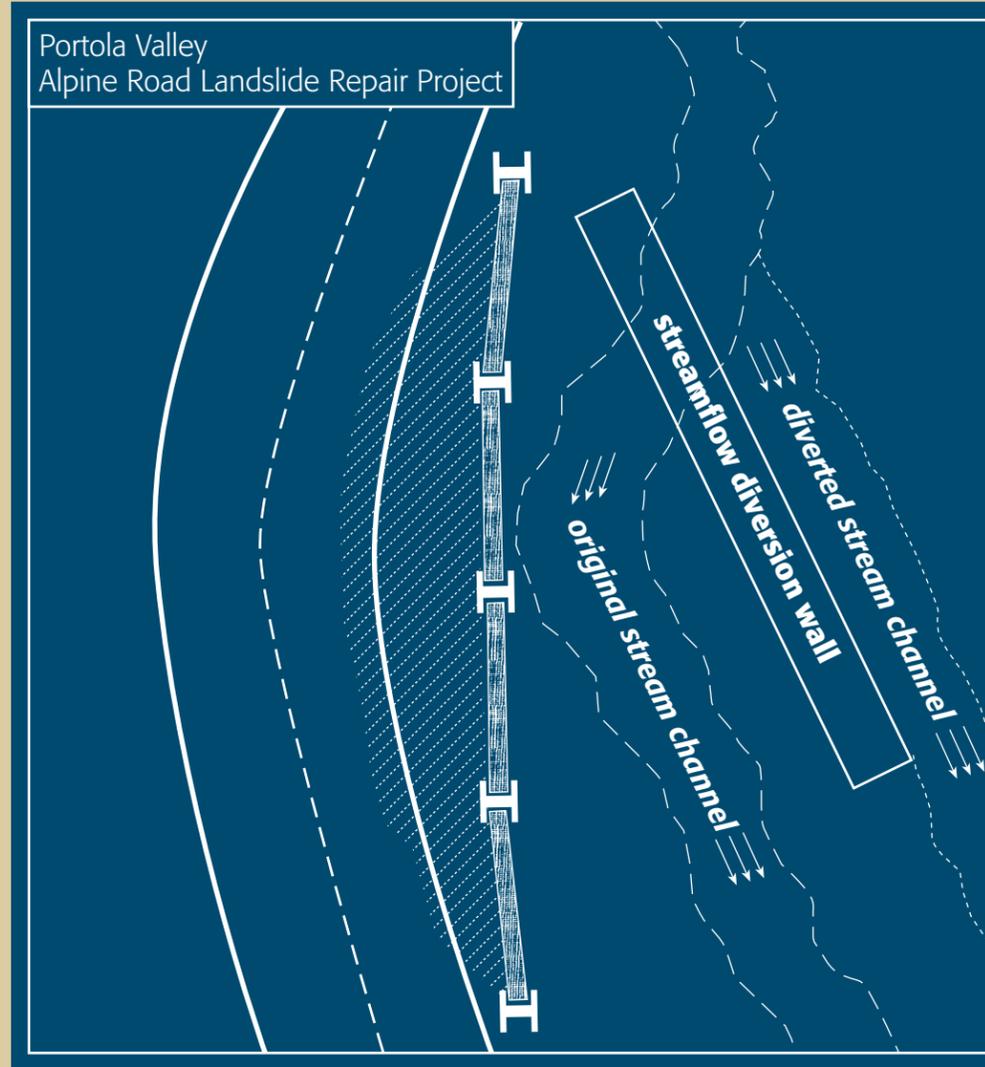
A stream-diversion wall was constructed using Geocell Systems' RDFW. Unlike other geocellular materials, RDFW can be stacked to form walls for water diversion or retention.



RDFW stream-diversion wall (curved, white object in background) allowed access to construction area. In this case, the wall was 16–24 inches in height, but RDFW stacks as high as six feet.



Construction of sliver fills is a complicated, technical task, often involving limited site access.



RDFW was used in road shoulder construction. Confined-cell geosynthetics (geocells) can provide the same load-bearing strength as much thicker rock-filled base.



Building trafficable surfaces using geocellular materials is a well-understood and well-documented practice.



One material, RDFW, was used for a stream-diversion wall, a retention wall, and for road shoulder construction.

This RDFW retention wall was placed alongside traditional gabion wall. Staggered back along the contour of the existing slope, this RDFW wall has outlasted its gabion neighbor.



RDFW was used extensively in the repair of Alpine Road.



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