



Testing rock bolts



Rappelling down the slope to check installed rock bolts and netting connections



Completed rock fencing



BEFORE CONSTRUCTION
The narrow roadway down to Ke'anae



AFTER CONSTRUCTION
Rockfall netting and fence. The road was widened where possible and guardrail added.

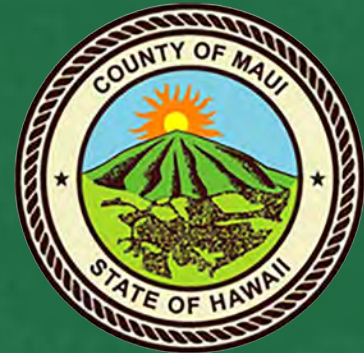
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Ke'anae Road provides the only access to historic Ke'anae Peninsula. The mile-long road off Hāna Highway also receives significant tourist traffic important to the community's financial well-being. A 100-foot-high slope along an 800-foot roadway section had a history of significant rockfall incidents, endangering residents and tourists alike.

The County of Maui engaged the design team to assess whether the rockfall hazard could be mitigated or the road should be relocated. The project included significant community outreach and coordination since construction would require road closures.

Rockfall mitigation included a combination of rock scaling, netting, rock fencing, and concrete barriers to address the different risks at various positions along the roadway. Roadway safety was additionally improved by regrading and widening the pavement from 14 feet to 20 feet where possible and installing guard rails.



Owner:
County of Maui
Department of Public Works
Wailuku (Maui), Hawai'i

Client:
Fukumoto Engineering Inc.
Wailuku (Maui), Hawai'i

Ke'anae Road Safety Improvements

Project Location: *Ke'anae, Maui, Hawai'i*

Entering Firm: *Hart Crowser, a division of Haley & Aldrich - Makawao (Maui), Hawai'i*

