

**TAGAYTAY-TALISAY ROAD ACTIVE ROCKFALL PROTECTION
TAGAYTAY, CAVITE, REGION IV-A, PHILIPPINES**

Surface Strengthening and Support

Problem

The Tagaytay-Talisay Road in Cavite is plagued by frequent rockfall occurrences and other natural hazards, posing significant risks to motorists and jeopardizing the safety and functionality of the road.

Rockfalls along the Tagaytay-Talisay Road present a serious threat to motorists. Unstable slopes and cliffs adjacent to the road can release large rocks and debris, endangering the lives and well-being of drivers and passengers. These rockfalls can damage vehicles, block the roadway, and create dangerous situations that require immediate intervention.

In addition to rockfalls, landslides, and erosion also pose significant risks. The unstable nature of the slopes, coupled with the heavy rainfall and natural erosive forces in the region, can lead to the weakening of the road foundation, landslides, and erosion of the road surface. These factors compromise the road's stability and integrity, making it unsafe for travel.

Solution

To ensure the safety of motorists and address the risks associated with the Tagaytay-Talisay Road, the Department of Public Works and Highways (DPWH) and Maccaferri have implemented comprehensive measures and innovative solutions.

Maccaferri's Active Rockfall Protection System is employed to stabilize rock faces and soil slopes using high-strength mesh systems and anchorages. This system enhances overall stability and prevents rockfalls from endangering motorists. The Steelgrid HR System, another comprehensive solution for rockfall mitigation and slope consolidation, combines a patented high-strength steel wire mesh geocomposite with anchor plates, U-bolts, and mesh connectors. This system provides additional protection and reinforcement against rockfalls.

Furthermore, Maccaferri's synthetic material filament geomat, Macmat EM, effectively manages erosion control in various environments. It protects slopes from water-induced erosion, further ensuring the stability and integrity of the road.

Client: Department of Public Works & Highways - Region IV-A

Designer / Consultant: Department of Public Works & Highways

Contractor: WRC Construction and General Merchandise

Products used (Qty.)

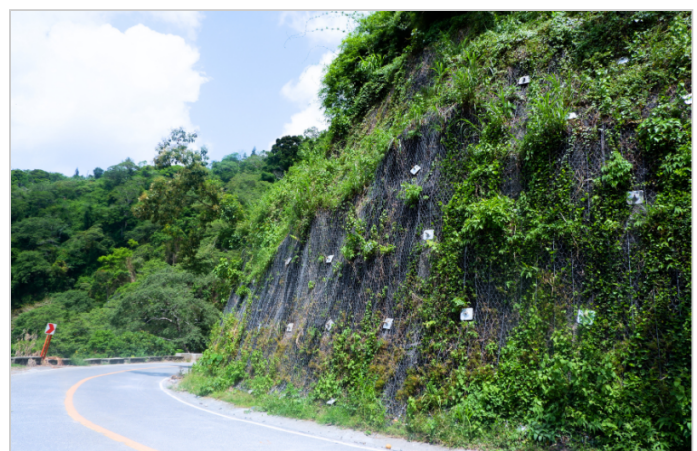
Date of construction: 01/2023 - 03/2023

[Google Maps](#)

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Completed



Completed



Completed



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