BUKIT ANTARABANGSA ROCKFALL & SOIL SLOPE PROTECTION
AMPANG, ASEAN, MALAYSIA

Simple Drapery

Problem

A slope that includes both soil and rock was identified with risk of failure due to heavy monsoon season that saturated the soil slope and cause instability to the rock. Critical area such as the rock and soil interaction zone have greater risk due to uncertainty on the failure mode and zone. The slope which composed of weathered granite showed a sign of instability with frequent small rockfalls that hit the roof of houses below.

Solution

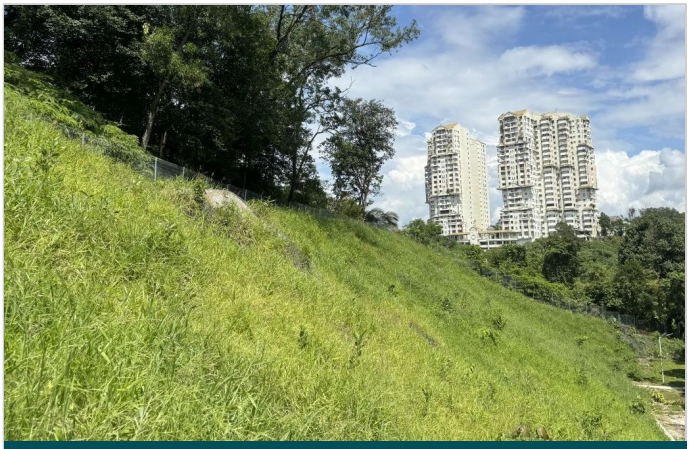
Steel grid SGHR 30 with anchors was proposed to address the rock slope instability issue while SGMO with MacMat was proposed for the soil slope stabilization and erosion control. An estimated 1500m2 of the net was installed to strengthen the slope and prevent detachment of loose rocks from the 10m height of rock slope. Both the soil and rock slope are anchored rock to increase the drapery stiffness by allowing the tensile stress developed within the net to be transferred and shared by the bolts.

Client: MAJLIS PERBANDARAN AMPANG JAYA (MPAJ)
Designer / Consultant: STARTA BINA SDN BHD
Contractor: STARTA BINA SDN BHD
Products used (Qty.)
- Macarmour & Steelgrid 1500m2

Date of construction: 05/2024 - 09/2024
Google Maps Google Earth


Front View


Side View



Side View

Maccaferri (Malaysia) Sdn. Bhd.
Unit 511, Block G, Phileo Damansara 1, No. 9, Jalan 16/11, Off Jalan Damansara, 46350
Petaling Jaya, Selangor Darul Ehsan, Malaysia
T: +60 3 7955 7800
E: info.my@maccaferri.com