



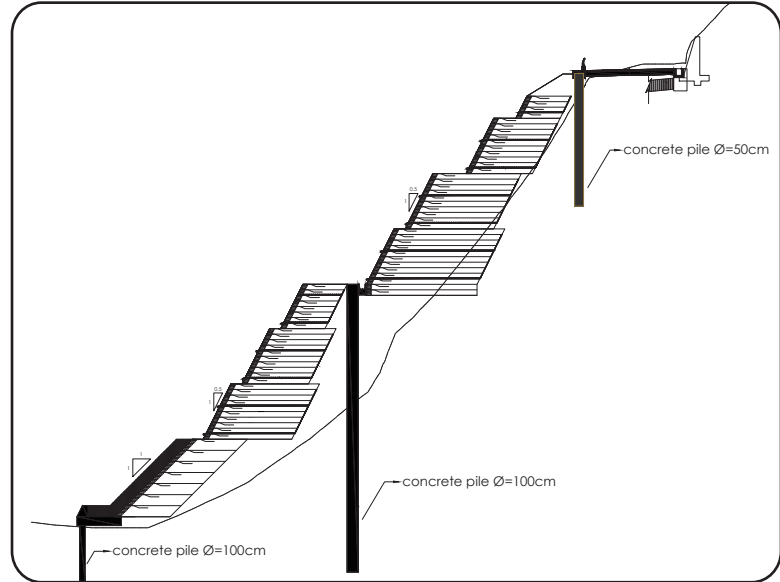
ACEGrid® a Road Slope Repair Project in Taiwan

Location: Taitung County, Taiwan

Application: MSEW and Reinforced slope in Road Repair

Problem :

In 2009, Typhoon, Morakot, attacked South Taiwan seriously. The abundance amount of rain caused flood which removed toe of slope and brought about wide collapse of slope. The collapse area was 50m in height and 200m in width. The Road, East No. 64 was destroyed and disconnected for several months.



Solution :

The structure included concrete base, 7m reinforced slope, 35m reinforced retaining wall, and 3 concrete piles located below base and behind reinforced retaining wall. The reinforced slope was protected by gabion face against flood scour. Above that a total height of 35m wrapped reinforced retaining wall was divided into 7 stages. Vegetation mat was hanging in front of retaining wall face for plant growing. Concrete piles were installed to prevent failure of global and/or compound stability. Drainage system inside retaining wall drained out water from retained soil and reinforced zone.

The construction was finished on Nov. 2011 and restored the traffic connection. Considering construction efficiency and cost, most of fill used in-situ soil. Construction using in-situ soil was helpful for original plants growing. Thanks for abundant rain and nice weather, the wall became green and environment friendly.