



(Asia) Ltd

## SAU MAU PING PHASE 15 DEVELOPMENT

### *Description of Work*

The Sau Mau Ping Phase 15 Redevelopment consists of 3 new Housing Authority buildings, playground, footpath, escalators, retaining wall and footbridge structures supported on raking piles.

Due to the very steep terrain, a temporary site formation was required to facilitate the construction of the proposed R.C retaining wall, staircase, escalators and pile caps for the footbridge. Based on the available site investigation data, a design was prepared for the temporary site formation that comprised cut slopes with a soldier pile wall. However, the ground conditions encountered during initial stages of construction differed from the original design with bedrock found to be generally higher than anticipated. GCG (Asia) Ltd assisted the Contractor with the development of a more economic alternative site formation and foundation design that took account of the actual site conditions. The commission included detailed mapping of the bedrock to determine failure modes and rock characteristics.

**Client:** Hip Hing Construction Co. Ltd

**Dates:** 2001-2002

**Estimated Project Cost:**  
HK\$ 200 million



**Removal of unstable boulders**



**Rock excavation for proposed site formation**