

臺北市山坡地人工邊坡地錨護坡設施檢測案例探討

黃立遠^[1] 林士淵^[2] 蔡正發^{[3]*}

摘要 臺北市政府自 99 年度起辦理人工邊坡調查建檔工作，截至目前調查發現有關地錨設施之人工邊坡計有 350 筆資料，有鑑於 2010 年國道 3 號 3K+100 公里處地錨邊坡發生無預警之順向坡滑動事件，震驚全國，臺北市政府為保障人民生命財產安全，優先挑選鄰近道路或住宅之護坡辦理地錨檢測工作，以主動積極的管理態度提升山坡地防災能力。本文主要探討地錨檢測之工作內容，包含護坡檢視、內視鏡檢視、地錨揚起試驗及人工邊坡整體安全性評估等，以作為後續執行檢測之參考。

關鍵詞：人工邊坡、地錨、揚起試驗。

Inspection of Manmade-Slope with Anchor in Taipei City

Li-Yuan Huang^[1] Shih-Yuan Lin^[2] Cheng-Fa Tsai^{[3]*}

ABSTRACT Taipei City Government have investigated and archived hillside manmade-slopes since 2010. Among all, there are about 350 manmade-slopes with ground anchors. In light of the landslide hazard at 3.1 km of freeway No.3 in 2010, Taipei City Government preferentially selects and does inspection to those manmade-slopes with anchor nearby roads and buildings, in order to protect people's lives and property safety. The purpose of this paper is to discuss works on anchor detection, including visual inspections on slopes, in-depth visual inspections, lift-off tests and safety assessment on manmade-slopes, as a reference to following detections on manmade-slopes with anchors. The project is devoted to enhance slopeland disaster prevention ability with an active management attitude; also, we hope to provide working procedure as a reference to test manmade-slopes with anchors.

Key Words : manmade-slope, anchor, lift-off test.

[1] 臺北市政府工務局大地工程處處長

Director, Taipei City Geotechnical Engineering Office, Taiwan

[2] 臺北市政府工務局大地工程處地住宅科科長

Section Chief, Slope Land Building Section, Taipei City Geotechnical Engineering Office, Taiwan

[3] 臺北市政府工務局大地工程處地住宅科股長(通訊作者 Email : ge-10614@mail.tapei.gov.tw)

Sub-section Chief, Slope Land Building Section, Taipei City Geotechnical Engineering Office, Taiwan