



Systems Geotechnique Limited.

Endeavour House,
Abbotsfield Road,
St. Helens,
Merseyside,
WA9 4HU.

Tel: 01744 818009
Fax: 01744 818060



Shilton Embankment, Warwickshire.

October 2002

Main Contractor: Mainland Contractors Ltd.

Systems Geotechnique subcontracting to Mainland contractors, installed 325 No Soil nails to stabilise the existing Railway embankment. Before Systems Geotechnique arrived on site, Mainland had removed all vegetation, re-profiled the embankment, and placed a gabion wall along part of the top of the embankment in order to form a safe cess walkway.

The Hitachi Excavator with the HEM 300 Drilling mast fitted was used to install the self-drilling Mai bar nails, these were fitted with a 100mm diameter drill bit and installed at thirty degrees from horizontal in a designed grid system in order to stabilise the embankment. The machine was fitted with an adjustable tension wire, set to ensure that the mast could not reach beyond the safe blue fence line. After all nails were installed, Mainland Contractors laid a geo-textile membrane over the nails.

Systems Geotechnique then completed the nails by tensioning and installing the nail head components. Mainland re-profiled the embankment back to its original profile to complete works.