

Case Study

HOOLEY CUTTING, SURREY

Client: Network Rail/Railtrack

Consultant: Edge Consultants (Coffey Geotechnics) & Scott Wilson

Main Contractor & Anchor Installer: [Can Geotechnical](#)

PROJECT SPECIFICATION

The Brighton Line passes through the North Downs at Hooley cutting, where a layer of sand and gravel overlies chalk. The instability of the chalk has been a cause for concern and has suffered over the years from erosion. A rockfall arrest system was developed by Edge Consultants (now Coffey Geotechnics), including arrest netting, catenary top cable, primary top anchors and secondary top anchors. The primary top anchors were minipiles driven vertically downwards through the sand and gravel into the chalk. However, a more cost effective system was required for the secondary top anchors.

SOLUTION

S08 aluminium bronze anchors were employed, driven vertically downwards into the sand and gravel. A loop was formed in the anchor tendon around the top catenary wire and swaged on site using a hand held hydraulic press.

Anchor System: S08EB aluminium bronze anchor c/w 3m of 8mm Ø stainless steel wire rope tendon.

Quantity: 280

Anchor Design Life: 120yrs

Soil Type: Sand and gravel

