

Case Study



A1(M) BRAMHAM TO WETHERBY UPGRADE SCHEME, PARADISE FARM

Client: Highways Agency

Consultant: Atkins

Contractor/Anchor Installer: [Balfour Beatty Civil Engineering Ltd](#)

PROJECT SPECIFICATION

To facilitate the widening of the motorway and positioning of an additional carriageway under this bridge it was necessary to remove the existing embankment forming the bridge abutment. The exposed cut face needed to be made safe in the short term to allow for the construction of a new reinforced concrete retaining wall.

SOLUTION

Excavation of the embankment was completed in 600mm stages from the top down with care not to affect the structure of the bridge or expose its foundation piles. After each cut, anchors were installed and a measured section of trench sheeting was secured into position by loadlocking the anchors. This process was then repeated a further 10 times. A total of 25 B06TC anchors were installed into the top six rows of sheeting and 32 B08TC anchors into the lower 4 rows. The ability to demonstrate immediate anchor loads allowed for continuous excavation therefore reducing the overall installation in time and cost.

Anchor System: B06TC & B08TC spheroidal graphite cast iron anchors each c/w 7m of 12mm & 16mm Ø galvanised steel wire tendon, 200mm x 200mm galvanised steel load plate, 12mm & 16mm galvanised steel wedge grip.

Quantity: 57

Anchor Design Life: 40 yrs

Soil Type: Made ground

