

Case Study

ROYDON MILL BRIDGE, RIVER STORT NAVIGATION, ESSEX

Client: British Waterways

Consultant: Halcrow

Main Contractor: Edmund Nuttall Ltd

Approved Installer: Ritchies

PROJECT SPECIFICATION

A bridge over the Stort Navigation at Roydon Mill was refurbished on behalf of British Waterways. As part of this work, extensive repairs were carried out to the wing walls, which showed signs of failure due to overburden of the road carried by the embankment. The road over the bridge was very narrow, meaning that any work had to be carried out from pontoons on the river.

SOLUTION

The narrow profile of the S10 anchor meant only a single small core hole was required in the wing wall and that the anchor was relatively easy to drive. This allowed the use of floating plant for the installation. Two rows of anchors were then driven to a depth of 6m at even spacings. To provide an aesthetically pleasing finish, aluminium bronze inverted patress plates were used to transfer the anchor load to the wall.

Anchor System: S10TB aluminium bronze anchor c/w 6m of 12mm Ø stainless steel wire tendon, 250mm Ø aluminium bronze inverted patress plate and 12mm stainless steel wedge grip.

Quantity: 29 **Anchor Design Life:** 120 yrs **Soil Type:** Made ground over clay

