

AIREDALE MILL SWING BRIDGE

Land & Water Services were appointed to carry out a Design and Build project involving the demolition of an existing steel swing bridge and installation of a new replacement structure over the Leeds-Liverpool Canal at Rodley in Leeds.

Replacement works consisted of a new steel swing bridge, incorporating a 3.5m wide carriageway and a 1.5m wide footpath. The replacement bridge was designed for heavier vehicle loadings which were required to facilitate access to a future housing development planned to be sited adjacent to the canal.

The existing structure was demolished and removed from site under a strict canal stoppage during February 2022. During this stoppage, service ducts for the planned housing development were installed under the canal by Land & Water.

Works required sheet piled abutments to widen the canal walls to widen the canal in order to accommodate the extra width of the new bridge. The abutments were constructed on a number of CFA piles installed by Land & Water.

The main bridge deck structure was assembled off site and lifted into place by a large mobile crane.

Further works consisted of highway re-alignment and construction on both approaches to the bridge as well as installation of new drainage and pedestrian fencing.

All other work had to be carried out with the canal open to traffic. The canal tow path also had to remain open during the works which required phasing of works to maintain public access and safety.

Furthermore, all works were completed in a very tight working space (9m wide x 25m long) due to neighbouring properties. This led to slew and height restrictions being required.



Project Particulars

Client: Dynamic Capital & Investments Ltd
January 2022 - February 2023



PROJECT
VALUE: £1,900,000