

CASE STUDY



Reconstruction & widening of a partially collapsed double arch masonry road bridge over the River Irwell following a major flooding event.

## CLIENT BURY MBC



CONTRACT NO. CP1015

After commencement of works it was discovered that the bridge was damaged significantly more than originally envisaged. Further investigations found bedrock supporting the central pier had been scoured to a depth of 6m. Due to EA restrictions on in-river working (June to end of September only) works had to be postponed. Anti-scour and protection works were installed and the site made safe until works could resume. In 2020 we again accessed the river via a temporary causeway and undertook strengthening works around the central pier and the abutments on either side of the river, including; Temporary dams/pumping; Cased and augured RC piles to 21m depth; RC pile cap; mass concrete scour protection beams to abutments / retaining walls. We then undertook the original scope for widening the bridge. Works included; Mass concrete extensions to abutments and piers; Place new pre-cast Flexi-arches & spandrel walls; Foam concrete fill to existing/new arches; Extensive masonry works; RC bridge-deck; Waterproofing; Carriageway/footway reconstructions.

https://www.youtube.com/watch?v=Sg0WGYwvLHI







