



CORNISH CONCRETE PRODUCTS LTD

## BOSCASTLE BRIDGE

On the 16th August 2004, the picturesque village of Boscastle was flooded when approximately 2 billion litres of water swept through the village after freak rains swelled the rivers Valency and Jordan and its tributaries.

As part of the new flood defence scheme, the river Valency has been widened and deepened to allow for a greater flow of water through the historic village.



It was necessary to replace the existing stone bridge and replace it with one having a greater span. Through a process of consultation and the planning process it was decided that a replacement stone bridge would be too large and would dominate the village as it was out of proportion with the existing landscape.



Thus, a proposal for a reinforced concrete bridge was put forward by the National Trust and the Environment Agency designed by consulting engineers Halcrow Group Ltd.

The contemporary design of the new lower bridge at Boscastle is not only curved on plan and elevation, but also in section with bullnosed edges. It has a span to depth ratio of 28:1. As a result of this, each bridge section required its own specially built transportation frame. The applied finish was achieved by shotblasting.

All of the aggregates used in the two 30 tonne structures are from a secondary source which fits in with Cornish Concrete Products' commitment to sustainability.



There were a number of factors that made the decision to precast the bridge sections inevitable. Primarily, as far as the main contractor Carillion was concerned, there would be minimal time on what was a very congested site area. The bridge sections were slotted in perfectly in half a day.



(Status: ISO 9001: 2000)

POINT MILLS • BISSOE • TRURO •  
CORNWALL TR4 8QZ  
TELEPHONE: 01872•864808  
FAX: 01872•863606  
e-mail: info@cornishconcrete.co.uk  
website: www.cornishconcrete.co.uk