

Whatman's Field, Maidstone – Stressed Ribbon Bridge



Cranked Stressed Ribbon Bridge - UK First

Whatman's Field Bridge at Maidstone in Kent is part of a £1.76 million scheme known as the Maidstone River Park Millennium Project. This provides a new pedestrian crossing of the River Medway.

The footbridge consists of a series of 'bearing cables' suspended across the river and stressed to load, on which pre-cast 'U' shaped deck units are fixed. In situ concrete is placed and the main post tensioning cables are installed. Both sets of tendons are grouted prior to final stressing of the main tendons and minor adjustment undertaken to achieve the required deck profile.

The overall depth of the deck is only 290mm allowing the elegant appearance of the bridge to be achieved over these relatively large spans.

This first bridge of its' type in the UK has 2 spans of 37 and 48 metres angled in plan at the pier by 20 degrees.

Consultant	Flint & Neill
Specialist	Strasky Husty & Partners
Architect	Studio E
Principal Contractor	Balfour Beatty
PT Specialist	Balvac
Contract Value	£55,000
Programme	8 wks completed Nov 2000



Balvac operate CARES approved quality assurance procedures and operative training and qualification for all post tensioning work.

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