

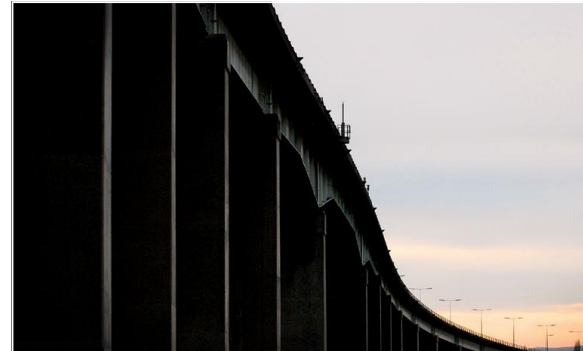
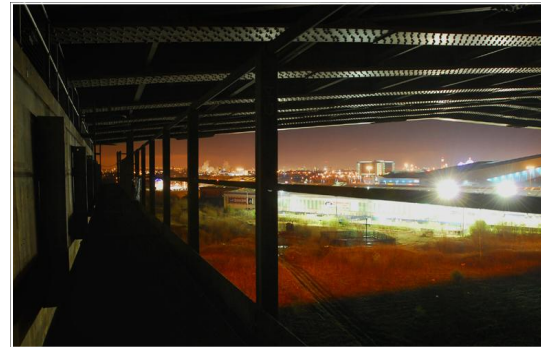
M60 Barton High Level Bridge - Refurbishment

After a successful two year trial installation of USL's Britflex BEJ system to replace one of the existing failed joints on the clockwise carriageway a decision was made by A-One + (Maintaining Authority) to replace all joints in their entirety to both carriageways with USL's Britflex BEJ expansion joint system (HA Type 6, elastomeric in metal runners).

This required careful and detailed methodology to remove the existing joint, fix temporary plates and install new stainless steel cantilever plates bolted to the deck either side of the joint gap to allow eventual installation of a Britflex BEJ/13 expansion joint system.

USL successfully installed 36 Britflex BEJ expansion joints over both carriageways of Barton Bridge, between junctions 10 and 11 on the M60.

Key to delivering of the whole project was to meet the Highways Agency's requirements to minimise disruption to the travelling public by undertaking the works only utilising overnight lane closures. This was achieved by resourcing the job accordingly by utilising 5 no. joint installation crews for the duration of the contract to meet the demanding programme requirements. All works were completed on time and in budget.



Project Constraints

The constraints of the contract necessitated that all work on the bridge would be undertaken within a specified 3 month period programmed to minimise disruption to the travelling public en route to the adjacent Trafford Shopping Centre, a major retail and leisure facility on the outskirts of Manchester, UK.

Effective programme management meant only one carriageway was affected at any one time, by utilising overnight lane closures between the hours of 22.00 and 05.00, seven nights a week, with a single lane open to traffic and a 50mph speed restriction in place for the safety of drivers and the road workers.

Project in Brief

The overall programme was dictated by the requirement to reduce the structural air gap at Joint G an existing large HA type 5 movement joint over the centre span of the bridge.

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