



Client Osborne for West Sussex County Council

Project Description ECI Contract awarded by West Sussex CC to replace the 1920's life-expired pedestrian crossing of the Adur estuary. The town centre setting and environmentally sensitive location demanded extensive stakeholder consultation as the design developed through to the construction phase. This has resulted in a landmark design meeting the Council's requirements including for a moveable span for occasional passage of vessels in the navigation. Construction under the combined urban and maritime constraints was achieved successfully using significant engineering ingenuity and a design which recognized those constraints. The resulting structure achieves a fine statement of the aspirations of the community and provides a much-improved facility for pedestrians and cyclists

Cass Hayward Role(s)

- Design of bridge superstructure, substructure and foundations
- Design of temporary stabilising measures for partially demolished existing bridge
- Designer site attendance

Project Statistics

- Total Project Value £10m
- Completed November 2014
- Bridge 220m long skewed to existing by 20 degrees
- Crest of deck 4.8m above MHWS
- 3 no. 27m approach spans each side of twin 25m balanced swing spans

Special Features

- Laminated glass parapets 1.6m high to provide wind screening for pedestrians and cyclists (and to enhance public realm)
- 15.24m wide navigation clearance with unlimited headroom
- Electrically driven pinion drive to slewing ring
- Concrete monopile foundations with permanent steel casings
- Precast concrete pile-head permanent shutters

Awards

- ICE South East England Engineering Excellence Awards South Coast Area Community Benefit Award Winner