

S1D bridge is one of the main parts of new Abu Dhabi Midfield Terminal Complex approaching roads leading directly to the new terminal departures.

Due to insufficient capacity of two bridge piers and their deformation caused by deck self load, deep and wide cracks occurred and pier head wings were deflected for several cm.

Freyssinet was appointed to design solution and execute bridge deck lifting with load transfer from the piers to the temporary steel tower. For this operation 20 pcs of 520t capacity jacks were used per one pier and steel tower was massive construction with approximately 150t weight per one pier. Lifting operation itself was done using centralized lifting system with accuracy of 0.01mm.

Entire job including rectification of bridge pier (by MC) has been done within 3 months with zero accidents and respecting project HSE requirements.

Bridge Jacking Works MTC Bridge S1D Grid 10 Abu Dhabi - UAE



Client

ADAC

Consultant

AECOM

Contractor

CSCEC

Execution

June-August 2017

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