



Crossrail will deliver a high frequency, high capacity service to 37 stations linking Maidenhead and Heathrow in the west, to Shenfield and Abbey Wood in the east via 21 km of new twin-bore tunnels under central London. It will bring an additional 1.5 million people within 45 minutes commuting distance of London City centre.

In preparation for the TBM drive under the River Thames ,HMJV have constructed a diaphragm wall very close to existing historic structures that required monitoring using Hydrostatic levelling cells and Wireless Bi Axial Tiltmeters. This is an integrated system providing a 3d measuring system that is directly measured in the ATDS software which provides the visualisation of the site monitoring and Tunnel Boring Machine parameters.

As part of the contract, there was a requirement to monitor the Docklands Light Railway tunnels near Woolwich Arsenal. The system was installed over a series of possessions and sends data at 15 minute intervals to the ATDS system.

The site has also installed 18 number Shape Accel Arrays within the diaphragm wall to monitor displacement in real time.

Client

Crossrail

Main Contractor

Hochtief Murphy JV

Location

London 2011

Catergory

Instrumentation

Value

> £800k

Getec UK

34 South Molton Street

London

W1K 5RG

T: 02074095201

E: enquiries@getec-uk.com

W: www.getec-uk.com

