

**Client:**

Carillion on behalf of Network Rail

**Sector:**

Rail

**Services Provided:**

Restricted Access Piling  
Pre-augering  
Sheet piling

**Consulting Engineer:**

**Location:**

Stockley, West London

**Value:**

£1.133m

**Year:**

2014



**Stockley Flyover Upgrade**

Stockley Flyover is a busy but constrained junction on the Great Western Mainline adjacent to Heathrow Airport. The upgrade works to the junction will allow increased capacity through the junction including Crossrail services, trains to Heathrow Airport and will reduce congestion on the Great Western Mainline.

Carillion were the main contractor and due to the limited possession periods several specialist subcontract upgrade packages had to be undertaken simultaneously.

Planning and programming was a key aspect of the project with Van Elle proposing efficient ways of working to meet the defined project timescales and challenging hard ground conditions whilst working close to other contractors and in sequence with enabling and follow on work packages.

The Sheet piling works were initially carried out within a short possession over the Christmas period utilising 4No excavator mounted vibrating attachments. 9 No 12 hour shifts were proposed to undertake the works. To ensure the piling works would be completed within the short possession periods and would achieve design depth with a minimum of delays Van Elle proposed pre-augering the hard surface material below the track ballast at 600mm centres using our Klemm 709 rigs.

4 locations within the junction were sheet piled totalling over 750 linear metres (1250 No piles) with design depths of up to 6m. All supporting logistics and transport within the junction area was undertaken with Van Elle's large RRV and trailer fleet ensuring no delays occurred.

A second possession during the following Easter allowed further works to be completed on the junction upgrade.

