



A46 Binley Junction

Rotary Bored Piles

📍 **Binley, Coventry**

A challenging highways project, completed for Osborne as part of their National Highways RDP programme, amid a heavily congested road network, in Binley near Coventry.

Project Background

Our role required the installation of the new foundations to support three new piers and two abutments for the new Binley flyover, designed to ease local traffic around the A46 Binley Junction.

Client Challenge

The location proved challenging with piling works, crane lifts and the delivery of materials all having to take place in a live highways environment, whilst always giving full priority to road users and the surrounding communities and businesses. Some works were undertaken at night in order to cause the least disruption.

Van Elle Solutions

Working closely with the Osborne delivery team, we were able to support on the most advantageous phasing plan for follow-on works, programme commitments and piling solutions in a busy work area. Once the piling mat was installed, work commenced in August 2021 having designed the pile solutions. Over a period of eight weeks, we installed 94 rotary bored piles of 900mm to 1200mm diameter, to depths of 20 metres using a Soilmec SR95 piling rig and supported by a 100-tonne crawler crane to instal the steel cages and casings.

Due to the scale of the new structure, total confidence was needed of the piles so we conducted pile integrity testing through the use of Thermal Integrity Profiling (TIP) technology. This gave the team valuable data to make a full analysis of each pile and it's success.

The project was of keen interest in the local community, and to support this our technical teams took part in the National Highways and Osborne community engagement sessions, which attracted 300 people over five-days.

A46 Binley Junction Case Study/21

Key Benefits

On time delivery: **8-week programme, finished with no safety issues, and ahead of schedule**

Social Value: **Community liaison events and 20kg donation to the local food bank**

Project stats

Client: **Osborne, for National Highways**

Date: **August 2021**

Rig/Kit: **Soilmec SR95 Rotary piling rig**

*"Van Elle have had a fantastic H&S record with us and are positive in their approach". **A46 Scheme Delivery Lead for Osborne***

*"We have had great support and contribution from Van Elle who volunteered and helped at the local Coventry food bank with a 20-kilo donation of biscuits. A big thanks to all involved in this". **Project Director Osborne***

