



- > COLAS SA
- > PORTSMOUTH
- > APRIL 2013 - APRIL 2014

Tipner Interchange Park and Ride

Colas carried out the Tipner scheme for their long-standing client, Portsmouth City Council. The works involved the construction of a new interchange, signalised roundabout, improvements to the M275 including a new dedicated bus lane and the construction of a new Park and Ride terminal and parking facility for more than 600 vehicles.

The works helped reduce congestion on the roads and were key to the regeneration of the area.

The Need

To maximise innovation for the project, Colas worked in joint venture to provide Early Contractor Involvement (ECI). We worked in collaboration with Portsmouth City Council to design the scheme.

The Tipner Scheme was broken down into three sections:

- New interchange construction works including slip roads and signalised roundabouts with bespoke sculptures.
- M275 improvement works, including widening for new dedicated bus lane, improvement to existing drainage system, new lighting system, slipfoam concrete barrier along central reservation, signalised roundabout, carriageway construction and resurfacing and new full-span gantry installation with VMS.

- Construction of the Park and Ride terminal and parking facility works, including removal of asbestos contaminated soils, major building works for the terminal buildings, car park construction, installation of new advanced warning signs, kerbing and paving, installation of waste services and Sustainable Urban Drainage System and footway surfacing.



The Approach

Through efficient programming, the client was provided with effective network management throughout the works as Colas Portsmouth managed the network on behalf of PCC.

This allowed us to maintain strong connections ensuring close communication with all parties involved.

To maintain smooth running traffic and minimise effects to the network, Colas collaborated with HE Area 3 and the PCC network team.

- > Total value was £21.9m
- > Won the ICE South East Engineering Excellence Award 2014
- > Colas scored an 'Excellent' in the Considerate Constructors Scheme Award for the project
- > The client received over a £400,000 saving due to Colas' redesign

The interchange scheme and M275 works were undertaken at off-peak times and combined with other works wherever possible.

We had a dedicated Communications Officer who worked closely with local residents to uphold a positive image in the community. We held Q&A sessions with the public to provide clear answers to technical

questions and ensure all affected stakeholders were informed of all aspects of the works.

Local residents in Portsmouth had minimal noise pollution during the Park and Ride works as we used a vibration monitor in the vicinity to measure vibrations and noise levels allowing us to implement risk reduction measures.

Associated Benefits

Portsmouth City Council received a saving of approximately £438,000 due to Colas' involvement during the design stage.

The scheme yielded many cost and materials savings through the redesign of:

- Park and Ride levels, to reduce the quantity of earthworks
- Street lighting, to reduce the amount of auger boring locations
- Embankments, to reduce the requirement for gabion walls from 100m to 10m
- Drainage, to reduce the number of outfalls

The client received a further saving of approximately £400,000 for vehicle recovery through our proposal

of collaborating with local supply chain partner, Boarhunt, for an on-call service.

The original requirement was a dedicated 24 hour on-site recovery vehicle which involved a large fee for operational staff and the time consuming construction of a recovery bay.

We provided the client with research demonstrating that a constant on-site recovery service was not required based on the risk of incidents. This approach was delivered successfully and the client was extremely satisfied with the financial gain through this saving.

To decrease our carbon footprint on site we utilised a recycled Incinerator Bottom Ash Aggregate (IBAA) for the sub base instead of the standard type 1 material.

