

A38 CARKEEL; AT THE GATEWAY TO CORNWALL

Cormac

Cornwall Council

Collaboration

£4.8m

This re-engineered junction at the A38 Gateway to Cornwall was completed 6 months ahead of Schedule, with a significant reduction in target costs.

The Early Contractor Involvement (ECI) phase of the project was critical to driving Value Engineering within the Client's sensitive affordability cap. ECI focused on all aspects of sustainability to develop and implement alternative Engineering solutions to deal with key aspects of the Contract risks which the client had allocated to the Contractor under the contract.

Sustainability advantages were gained by the selection of more innovative and sustainable solutions such as;

Replacing the reinforced concrete retaining wall with a much softer landscaped soil-nailing solution,

Greater analysis of the significant surfacing overlay design avoiding large areas of full reconstruction and;

Subsequent savings of traffic management level and traffic delays this would have brought,

Careful Selection of safety barrier type to significantly reduce installation duration

Re-design of drainage layouts to suit construction techniques and avoid excessive deep and hard rock excavations.

This project demonstrates the benefits of collaborative working between all sectors involved in a Civil Engineering project. Collaboration created in strong partnerships; an element which resulted in the following;

Statutory Undertakers' major diversions were simplified through detailed engagement with each utility and the promotion of more efficient layouts and processes.

Combining night & day activities through effective resource and safety management in agreement with stakeholders provided additional time savings.

The Traffic Management strategy, agreed with Highways England, Cornwall Council and the Town Council minimised queuing traffic, with a positive effect on road users and reduced driver complaints for a project of this size.

The benefits of collaboration on this project addressed significant risk factors and stimulated innovative and efficient design solutions resulting in a quicker contract with valuable savings in time and cost.