

# Hedon Road, Hull



Hedon Road, Hull

In 2001, as part of a general regeneration plan for the east side of Hull, the Highways Agency commissioned essential maintenance works to the drainage on the A1044 Hedon Road, which links the docks to the main east-west route of the A63/M62. The work also included maintenance to a section of land owned by Associated British Ports, located adjacent to Hedon Road.

There were three major challenges to overcome in order to successfully provide an effective drainage solution for the project.

- The Highways Agency specified the need for a system which offered adequate flow capacity for such a major road, which would also withstand the demands of heavy vehicular impact
- Hull sits on a shallow layer of overlying mud and the ground is notoriously poor
- Hedon Road contains a large amount of buried services, so shallow construction was vital

As a specialist in the design and supply of drainage systems, Marshalls has the expertise, knowledge and experience to provide an integrated drainage system to solve each issue. Marshalls established clear lines of communication with Alfred McAlpine Construction throughout the specification process. This allowed the company to demonstrate and explain the capabilities of its Mini Beany system which has inbuilt fall channels that would be particularly suited to the flat, shallow nature of the site.

Marshalls worked closely with Alfred McAlpine to design a system that would fulfil the Highways Agency brief. In all, Marshalls supplied 16 km of Mini Beany and 2 km of Max-E Channel with reinforced concrete tops.

The inbuilt fall channels of Mini Beany meant deep-level excavation was avoided and the chance of conflict with existing services was reduced. Given the poor quality of the land, the use of Keyblok concrete block paving as opposed to other rigid surfacing materials also ensured that any future shift in the substructure could be accommodated, as the material moves with the substructure, preventing cracking. Additionally, Marshalls' Keyblok allows easy remedial work to damaged areas as it can be uplifted and relaid quickly, with minimal disruption.

The combination of Marshalls' products brought about an aesthetic enhancement of the Hedon Road area, whilst also providing an efficient drainage system capable of servicing a major trunk road.

#### Products Used:

- Mini Beany
- Max-E Channel
- Keyblok

#### Specialist involved:





Hedon Road, Hull