PORTLAND CONSULTING ENGINEERS

RYHOPE RETAIL DEVELOPMENT









Client: Sansec Developments
Principal Contractor: RG Construction Group
Project Value: Unknown
Project Details: Development of a new Sainsbury's Local retail unit incorporating an internal Subway, complete with associated car parking, access, pedestrian areas and external works. We provided both Civil and Structural Engineering services for the development, delivering the design from the building structure through to the drainage and external works.

We undertook the civil engineering design for the development, including external works, access arrangements and below ground drainage infrastructure. The external works incorporated a combination of tarmac, permeable paving, conventional paving and kerbing, providing the required parking, pedestrian and access areas across the development. The surface water drainage strategy incorporated permeable paving, with runoff collected and managed through the below-ground drainage network, whilst an attenuation tank was provided to manage surface water discharge, together with a Hydro-Brake flow control device.

The building was designed as a hot-rolled steel frame with masonry infill panels and wind posts, providing an efficient structural solution for the retail unit whilst also accommodating the requirements of the Subway unit. A ground floor slab solution was adopted, which incorporated localised recesses to accommodate freezer equipment. The design of this had to be co-ordinated with the internal fit-out requirements and structural arrangement.

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