PORTLAND CONSULTING ENGINEERS

RETAIL DEVELOPMENT: CALLERTON









Client: Sansec Developments
Principal Contractor:
Project Value:
Project Details: Development of a new three-unit retail scheme comprising a Greggs, Co-Op food store and an independent veterinary practice. We worked closely with the wider design team to overcome a number of site constraints.

We undertook the civil engineering design for the site, including the setting out and coordination of finished levels, external works, access arrangements and the surface water drainage strategy. A permeable paving system was incorporated into the external works, providing both the required parking and pedestrian areas while contributing to the sites' surface water management strategy. Surface water is managed through a below-ground attenuation system, with the drainage network designed to collect and attenuate runoff before discharge from the site.

The structural design was informed by the site constraints. Timber roof trusses were adopted, providing an efficient structural solution while maintaining the required internal layouts for the individual occupiers. The proximity of the retaining walls to be building foundations presented a challenge, with the structural arrangements developed to coordinate the retaining structures, foundations and below ground drainage.

A review of available mining records identified shallow historic mine workings, resulting in the requirement for specialist grouting works. During construction, an unexpected mine shaft entry was also discovered. Following consultation with the Coal Authority, the shaft was subsequently treated and capped, allowing the development to proceed.

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