

# Derby Road, Hathern, Development Infrastructure

## Project Profile

Client: William Davis Homes

Value: £1.39m



We were engaged by William Davis Homes to complete the primary infrastructure for the proposed residential development of 70 dwellings on a 2ha site adjacent to the A6 Derby Road in Hathern near Loughborough. The main work involved;

- Site clearance and topsoil strip
- Section 278 works for the new site access from the A6 Derby Road;
  - ◇ 7000m<sup>3</sup> of bulk earthworks to reduce ground levels, the material was temporarily stockpiled on site and was later removed from site for landfill restoration purposes.
  - ◇ The new site entrance was constructed over the Severn Trent Water Derwent Valley Aqueduct consisting of 1 x 42" & 1 x 47" strategic water mains.
  - ◇ This work was supervised by a STW inspector, at no point could any plant or vibration be encountered in the 3m exclusion zone surrounding these mains.
  - ◇ 50m of full road construction at the site entrance - kerbs, service crossings (ducts), base, binder and wearing course plus footpath construction.
  - ◇ Earth retaining walls, constructed using gabion baskets, were constructed at the site entrance.
- Section 104 drainage was installed throughout the site;
  - ◇ 520m of foul water sewers 150/225 mm dia up to 7m deep.
  - ◇ 375m of surface water sewer to 450 mm dia up to 5m deep
  - ◇ Installation of manholes and road gullies
- On site SUDS drainage system including;
  - ◇ 110m of swales constructed with 375mm diameter pipework outfalls including brickwork inlet and outfall headwalls.
  - ◇ An attenuation pond sized on a 100 year storm was provided with a main bed area of 1200m<sup>2</sup> and storage volume of 1332m<sup>3</sup>.
  - ◇ A pre-cast headwall unit installed at the watercourse outfall and a flow control chamber with hydrobrake and penstock.
  - ◇ A 3m wide by 70m long maintenance track to the attenuation system was installed using Truckpave modular surfacing bedded on 220mm of compacted Type 1 sub base and topsoiled and seeded on completion.
- 510m of Section 38 estate roads constructed to stage1 binder course level including kerb race but without kerbs.

