

## Derby Road, Hathern, Leicestershire —Development Infrastructure

**Client:** William Davis Homes

**Value:** £1.39m

**Start date:** June - Nov 2015

We were engaged by William Davis 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 and 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 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 mm & 225 mm diameter and up to 7m deep.
  - ◇ 375m of surface water sewers up to 450 mm diameter and up to 5m deep
  - ◇ Installation of manholes and road gullies



## Derby Road, Hathern, Leicestershire — Development Infrastructure (Cont'd)

- On site SUDS drainage system including;
  - ◇ 110m of swales constructed with pipework outfalls up to 375mm diameter including brickwork inlet and outfall headwalls.
  - ◇ An on site 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 the Truckpave modular surfacing system 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.

