



## BROOMHILL AVENUE – Flood Alleviation, Aberdeen

This Design & Build project involved upgrading the existing combined sewer network with on-line attenuation to reduce the risk of sewer flooding of properties on Broomhill Avenue, Aberdeen.

The work involved the installation of approximately 220m of online attenuation pipework varying in size from 225mm to 1.2m diameter, up to 5m deep in difficult ground conditions, along busy residential roads.

It was important to maintain access for local residents throughout the course of the work on site, which involved extensive and complex traffic management arrangements.



Careful working and a proactive & pragmatic approach to design modifications were necessary to overcome the complex and congested nature of existing utility services and obstructions encountered throughout the site. In addition, flows had to be maintained through the sewer system which had to remain live throughout the duration of the works.



Close liaison was maintained with community representatives, the local council and other members of the project team, throughout, to ensure a fully compliant project was delivered with all specified requirements, whilst minimising any community disturbance and inconvenience

GL's close Client liaison and Project Team proficiency managed design modifications to avoid costly utility diversions and potential programme over-runs

### Key features:-

- 220m of online attenuation pipework
- Extensive Traffic Management
- Maintaining operation of existing sewer system
- Effective Client, public and resident liaison

<b>CLIENT:</b>	Scottish Water
<b>ENGINEER / DESIGNER:</b>	AECOM
<b>CONDITIONS OF CONTRACT:</b>	NEC Option C
<b>DURATION OF WORKS:</b>	Nov 2014 to March 2015 (18 weeks)
<b>CONTRACT VALUE:</b>	£620,000