

Proposal for Bioswale SuDS Feature: Round Hill Playground Shrewsbury, SY1 2LZ**Summary**

Severn Trent are proposing to install sustainable drainage feature (SuDS) to be situated within the Round Hill Playfield, SY1 2LZ (refer to Appendix 1 for notional proposal). The proposal is one of several in the Coton Hill area which will help to reduce flooding of the footpath known as 'Pig Trough'.

The proposal is to redirect surface water from the highway on Round Hill Green that currently discharges directly into the combined sewer network in the area into a bioswale (a shallow vegetated grass channel) where it will be attenuated and discharged either into the ground or back into the combined sewer network at a reduced rate.

The Design

Bioswales are designed to attenuate surface water and either infiltrate to ground or discharge it back into the sewer network at a slower rate. They are designed to drain down within 48 hours so the feature doesn't retain a permanent water level.

Further to this the features are designed with a top water level control to prevent the bioswale from flooding overland in rainfall events in excess of the design storm. These features are typically up to 1.2m in depth (depending on how much drains into them) with up to 800mm peak surface water level.

Safety Features

Bioswales are designed in line with guidance from RoSPA (Royal society for the prevention of accidents) and key safety features include optional knee rail fencing near public footpaths, a maximum of 1:3 gradient slope, allowing for self-rescue should someone accidentally fall into the feature, and reflective timber bollards to highlight feature to road users.

SuDS Benefits

These features offer not only surface water attenuation and flood prevention but also provide wider societal benefits including enhanced ecology, health and wellbeing. We want the design of the features to include input from the local residents and community



Figure 1. Bioswales installed by STW as part of the Mansfield Green Recovery Scheme

groups for the shape of the feature and how these will be planted. These features will be owned and maintained by Severn Trent following construction.

Appendix 1

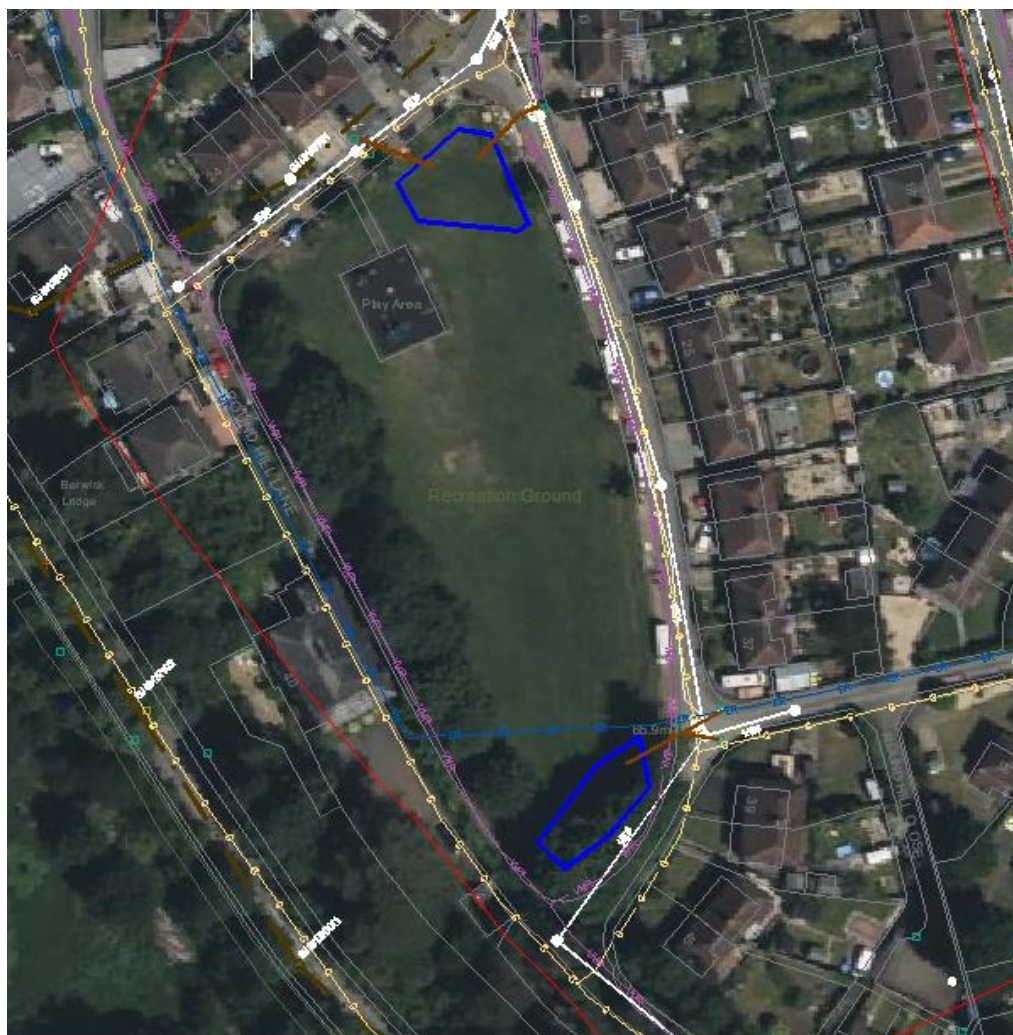


Figure 2. Notional Proposal (pre site investigation works)