South Gloucestershire Council

Delivering for you

Grovesend/A38 junction improvements

Further information

Background to the proposals

The new housing developments at Park Farm, Cleave Park and land west of Gloucester Road will increase the local population, resulting in more vehicle movements and journeys and putting pressure on key junctions. One of the priorities which has been identified is to increase capacity at the Grovesend Road, A38 junction.

There is currently congestion at this junction at peak times and traffic modelling has indicated that if action isn't taken, with increased population and accompanying vehicle movements, the junction's capacity would be exceeded by 2028. The proposed works will increase capacity and re-allocate priorities at the junction to help meet future traffic needs.

We can draw upon funding from section 106 contributions from the developers of the three housing developments to pay for improvements.

Purpose of the scheme

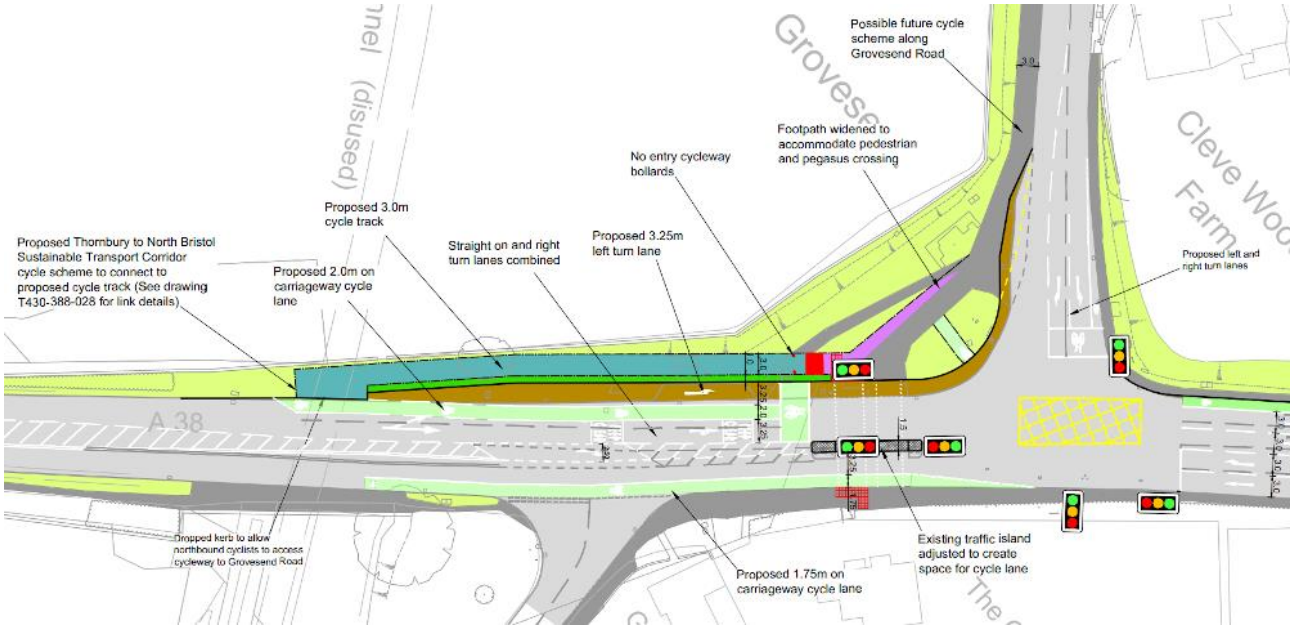
The purpose of the scheme is to increase capacity at this junction. The improvements proposed are based on the modelling of traffic flows generated by the new housing developments to the east of Thornbury. The scheme also includes a new off-carriageway cycleway to link up with the proposed A38 Thornbury to North Bristol sustainable transport corridor cycle scheme.

The proposed scheme

The proposal includes changes which will increase capacity, reduce congestion and improve safety. The options under consideration are:

- A38 northbound would be widened to provide a new dedicated left turn lane at the junction with Grovesend Road,
- A new 3m cycle track will be provided on the northbound side of the A38. This will be combined with a dropped kerb to allow cyclists heading down Grovesend Road to leave the carriageway and access the new cycle track,
- A new 2m wide single carriageway cycle lane will also be provided for cyclists continuing north on the A38. These two features are provided to consolidate and improve the existing cycling features already present at the junction,
- Additional space will be created on the A38 by combining the existing northbound straight on lane with the right turn lane. Traffic modelling has indicated that this reallocation of road space will be beneficial for future traffic flows,
- The work will also include an amendment to the existing traffic signals through the introduction of a left turn filter for the new dedicated left turn lane,
- The proposed widening also provides additional space on Grovesend Road to introduce dedicated left and right queuing lanes for traffic emerging on to the A38.

These changes are highlighted on this graphic.



Links with other schemes

The improvements highlighted here link with other planned and proposed schemes in the area. However, progress on this scheme is not dependent on delivery of other programmes of work. This proposal can be delivered independently, but the changes have been designed to align with, and build on, the potential benefits of other projects.

Grovesend Road cycle scheme

Our design would facilitate the possible future cycle scheme proposed for Grovesend Road. The link below directs to the previous consultation on the project.

Grovesend Road/Gillingstool Active Travel Route - South Gloucestershire Online Consultations (southglos.gov.uk)

Thornbury to North Bristol Sustainable Transport Corridor

The works proposed at the Grovesend Road junction would link with the proposed cycle track being considered for the A38 running down to Aztec West. A separate consultation is ongoing for this scheme.

When might any construction work start?

Subject to consultation and funding availability, construction could begin in Spring 2024.