
Appendix D – Rodley Roundabout Sensitivity Test

This document is out of date. The latest information on the government's aviation and airports policy is available on [GOV.UK](https://www.gov.uk).

Appendix D – Rodley Roundabout Sensitivity Test Results

The figures below show the traffic flow changes and delay change for 2031 in the AM Peak, inter-peak and PM Peak.

Figure 1 – AM Peak Do Minimum Rodley Pinchpoint Flow Changes

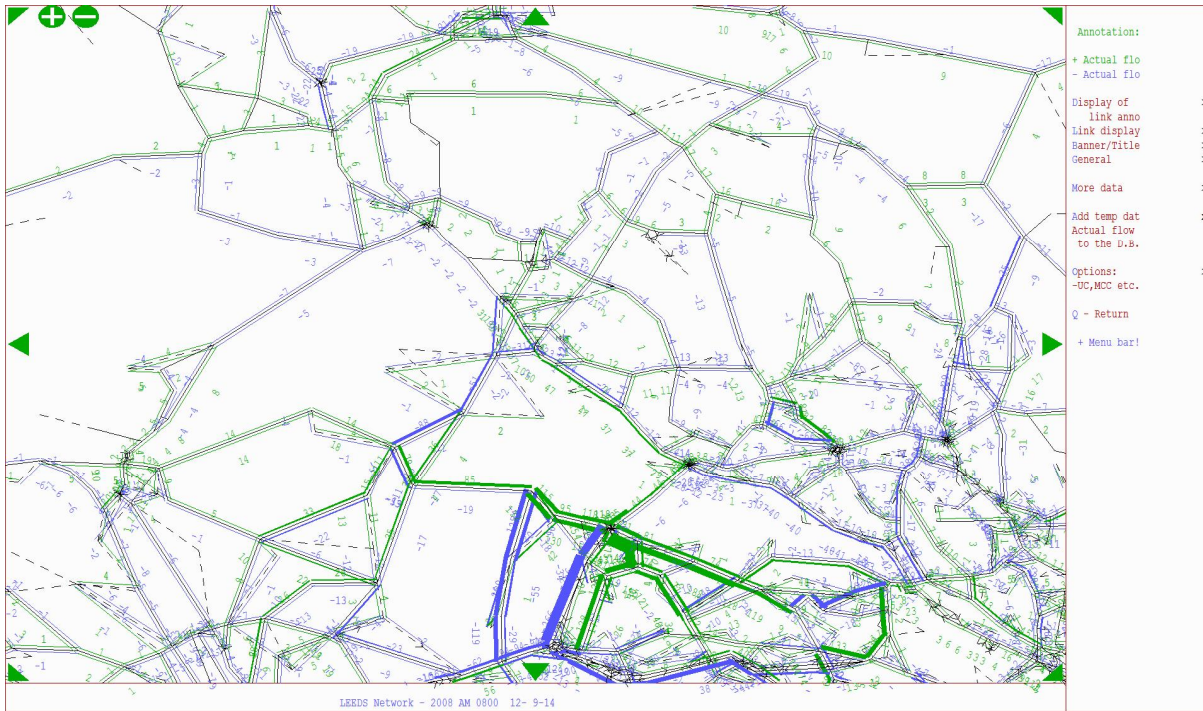


Figure 2 - AM Peak Do Minimum Rodley Pinchpoint Delay Changes

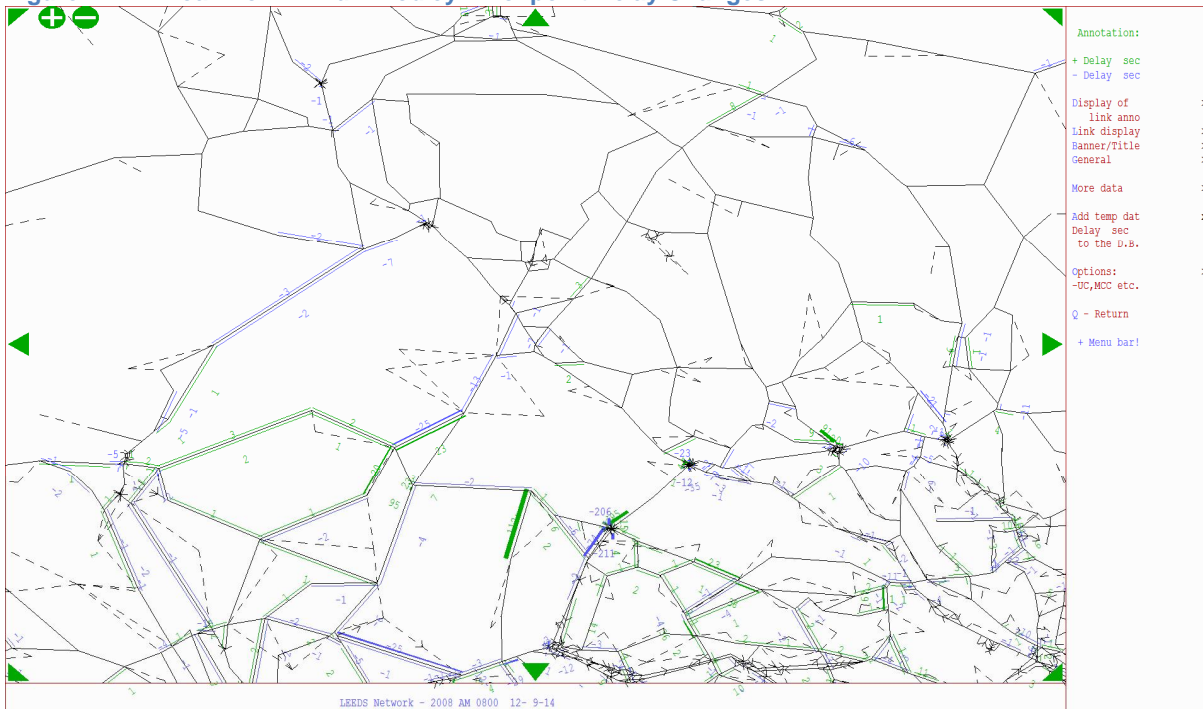


Figure 3 – Inter-peak Do Minimum Rodley Pinchpoint Flow Changes

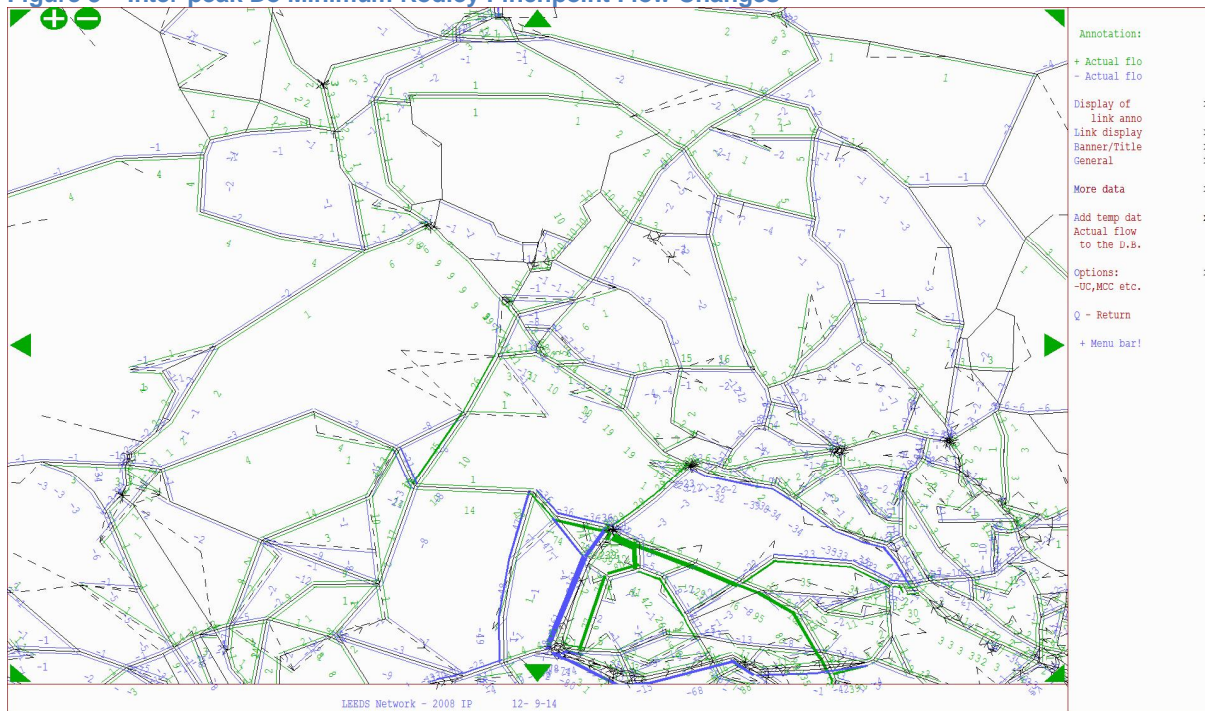


Figure 4 - Inter-peak Do Minimum Rodley Pinchpoint Delay Changes

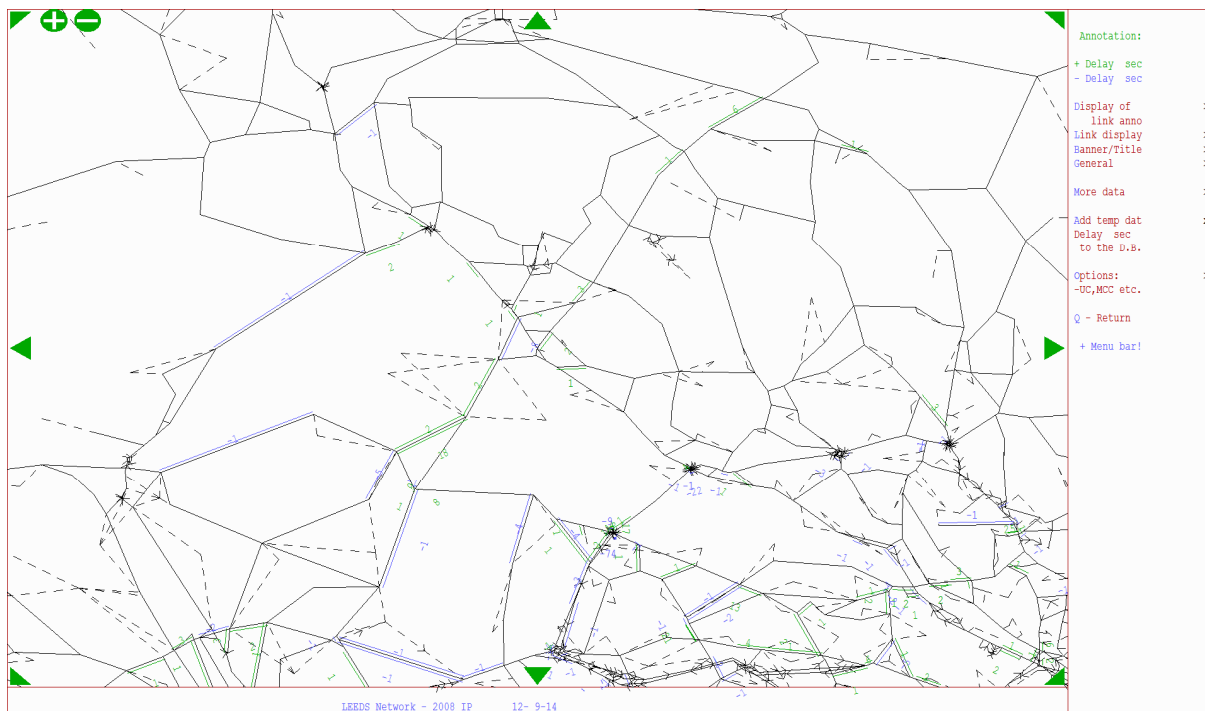


Figure 5 - PM Peak Do Minimum Rodley Pinchpoint Flow Changes

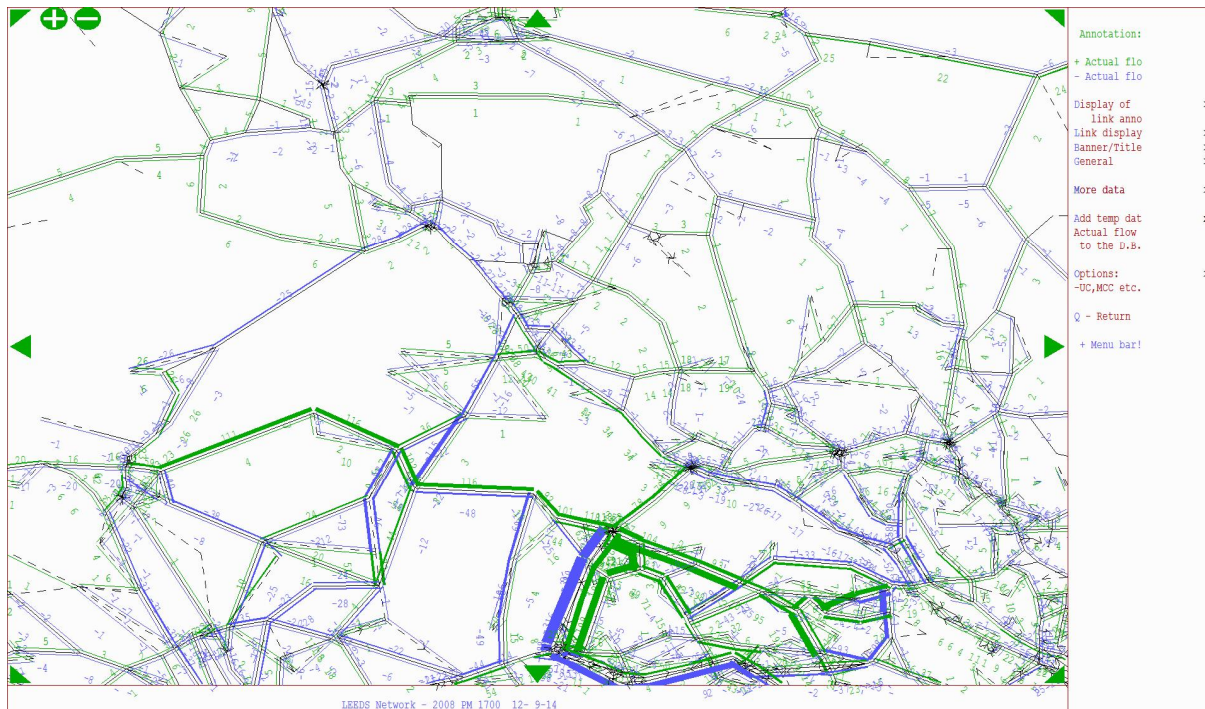
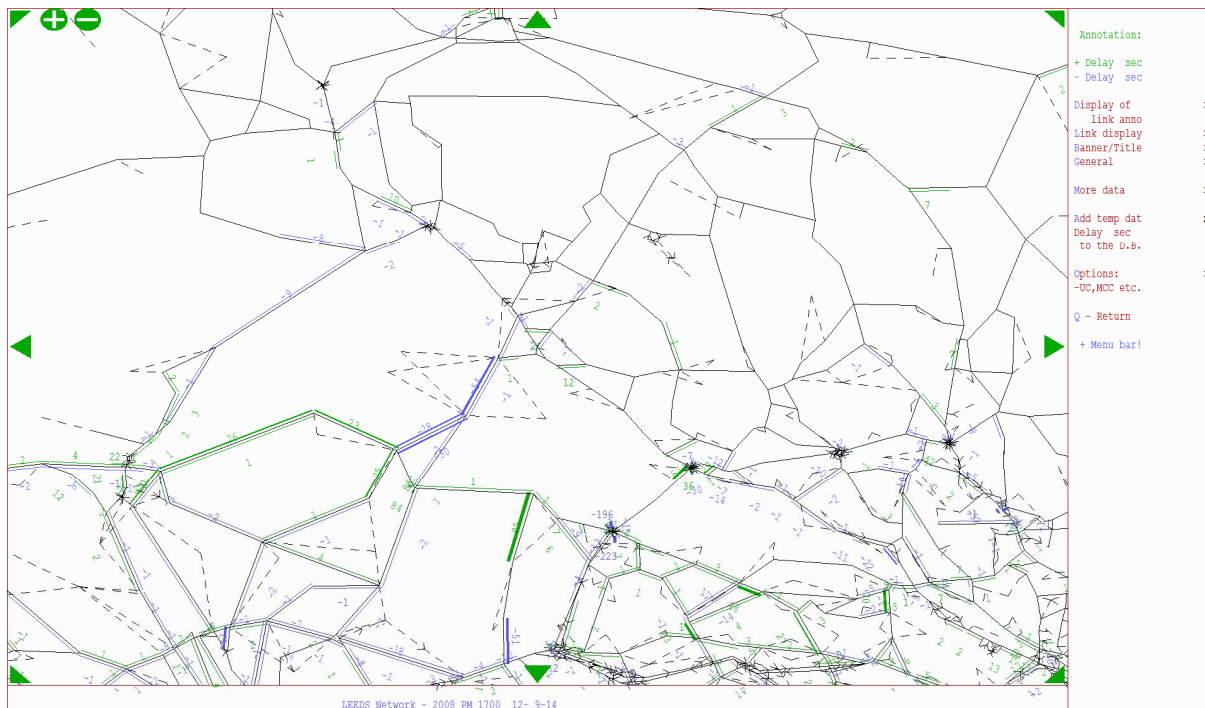


Figure 6 - PM Peak Do Minimum Rodley Pinchpoint Delay Changes



The key changes forecast appear in the AM and PM peak hours, with vehicles avoiding using the Outer Ring Road, instead choosing to divert via Bagley Lane and Old Road, or the A657. Delays are forecast to increase on routes parallel to the junction improvements, partially due to re routing.

Table 1 below shows the corresponding journey time changes with values in red indicating increased times for trips between the two locations, and green values representing journey time benefits. The majority of routes

forecast little change in journey time, with the most significant changes on the routes from Pudsey and Kirkstall which are likely to be affected by the changes at Rodley.

Table 1 – Do Minimum with Rodley Pinchpoint Journey Time Changes

Route	AM Peak	Inter-peak	PM Peak
Bradford to Airport	29 minutes 30 seconds (-27 seconds)	28 minutes 48 seconds (-26 seconds)	34 minutes 40 seconds (-1 minute)
Airport to Bradford	35 minutes 2 seconds (8 seconds)	30 minutes 21 seconds (1 second)	31 minutes 33 seconds (9 seconds)
Harrogate to Airport	28 minutes 35 seconds (0 seconds)	22 minutes 30 seconds (1 second)	29 minutes 46 seconds (-8 seconds)
Airport to Harrogate	30 minutes 46 seconds (-16 seconds)	24 minutes 43 seconds (-13 seconds)	23 minutes 12 seconds (-2 seconds)
Kirkstall to Airport	27 minutes 5 seconds (9 seconds)	25 minutes 45 seconds (3 seconds)	33 minutes 18 seconds (19 seconds)
Airport to Kirkstall	27 minutes 41 seconds (51 seconds)	24 minutes 18 seconds (-2 seconds)	27 minutes 14 seconds (23 seconds)
Pudsey to Airport	39 minutes 29 seconds (-1 minute 26 seconds)	33 minutes 26 seconds (-50 seconds)	51 minutes 6 seconds (1 minute 46 seconds)
Airport to Pudsey	36 minutes 58 seconds (1 minute 22 seconds)	28 minutes 16 seconds (6 seconds)	31 minutes 53 seconds (1 minute 21 seconds)
Whinmoor to Airport	23 minutes 45 seconds (2 seconds)	24 minutes 2 seconds (0 seconds)	35 minutes 17 seconds (-16 seconds)
Airport to Whinmoor	31 minutes 26 seconds (16 seconds)	24 minutes 51 seconds (-7 seconds)	25 minutes 29 seconds (1 second)

Table 2 shows the comparisons in TUBA results for both the link road and Package 1 options, with and without the Rodley roundabout improvements.

Table 2 - TUBA Comparisons

	Link Road (40mph)		Package 1	
	Without Rodley	With Rodley	Without Rodley	With Rodley
PVB ('000s)	147,334	145,261	57,864	88,026
PVC ('000s)	30,274	30,274	5,603	5,603
BCR	4.867	4.798	10.327	15,710