

Technical note

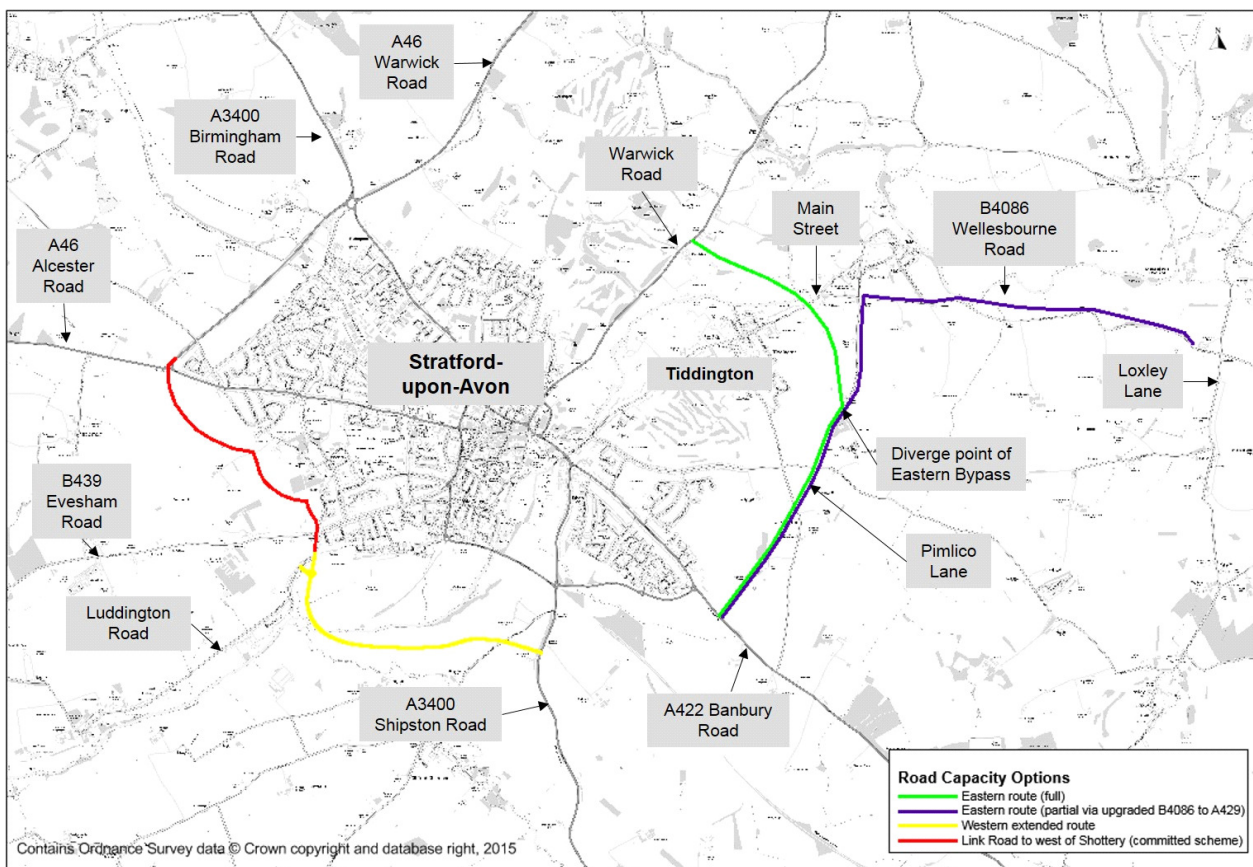
Project:	Stratford-upon-Avon Additional Road Capacity	To:	Warwickshire County Council
Subject:	Cost Assessment – Summary Note	From:	Gary Oakes / Paul Bate
Date:	February 2016	cc:	Adrian Taylor

1. Introduction

This short Technical Note provides a brief summary of the cost estimates derived by Faithful and Gould for highway capacity enhancement schemes on behalf of Warwickshire County Council, as part of the Stratford-upon-Avon Additional Road Capacity Study, undertaken by Atkins. It is important to note that due to the level of design for these scheme options, a number of assumptions were required. These assumptions are detailed in a separate document: *Stratford-upon-Avon Road Capacity Options: Draft Feasibility Estimate (Faithful and Gould, 18/02/16)*.

2. Scheme Locations

A plan showing the locations of the route options is shown below:



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3. Cost Estimates

The cost estimates for each of the options are shown in the table below, together with the route length and the length of the bridge required over the River Avon (if applicable).

Route		Route Length	Bridge over River Avon		Total Construction Cost (excluding indirects* and contingency**)	Total project cost (including indirects* and contingency**)
Western Route		2.719km	✓	Length: 193m	£14,320,495	£26,063,300
Eastern Route (Full)		4.177km	✓	Length: 48m	£14,178,912	£25,805,621
Eastern Route (Partial)	A422 to Pimlico Lane to the diverge point of the Eastern Route (Full)	2.057km	✗	N/A	£6,120,086	£11,138,556
	Diverge point of the Eastern Route (Full) along B4086 to Loxley Lane	3.869km	✗	N/A	£13,261,350	£24,135,657
	Entire Route	5.926km	✗	N/A	£19,381,436	£35,274,213

* Indirects include preliminaries (20%), design (10%) and client costs (10%)

** An uplift factor of 30% has been applied for estimating uncertainty due to the level of design of the scheme options.

4. Summary

The Western Route and Eastern Route (Full) have similar costs. The Western Route is considerably shorter in length, but it requires a longer bridge structure over the River Avon.

The Eastern Route (Partial) has been split into two sections in order to give greater clarity as to where the costs are likely to be incurred. The route has been split as follows:

- A422 to Pimlico Lane to the diverge point of the Eastern Route (Full) – i.e. the Southern section.
- Diverge point of the Eastern Route (Full) along B4086 to Loxley Lane – i.e. the Northern section

The entire Eastern Route (Partial) costs more than the Western and Eastern Route (Full) options. Although a river crossing is not included in this option, the route is longer than the other options so more highway works are required.

Note – This Technical Note is intended to provide a high level summary of the costings for the various schemes. It is recommended that this note is read in conjunction with *Stratford-upon-Avon Road Capacity Options: Draft Feasibility Estimate (Faithful and Gould, 18/02/16)* in order to understand the process used and the assumptions made.