# TECHNICAL NOTE

| | | | |
|---|---|---|---|
| **DATE:** | 19 March 2025 | **CONFIDENTIALITY:** | Confidential |
| **SUBJECT:** | St Albans Local Plan National Highways Request | | |
| **PROJECT:** | 70119618 - COMET modelling run 7.1 for St Albans Local Plan | **AUTHOR:** | Christine Elphicke |
| **CHECKED:** | Christine Elphicke | **APPROVED:** | Craig Drennan |

## OVERVIEW

This fee proposal outlines the tasks WSP have undertaken since the fee proposal from 10th January 2025 as well as the tasks which were requested at the last meeting between National Highways, St Albans District Council, Hertfordshire County Council and WSP on 12th March 2025.
The tasks we have undertaken are:

- Diverge assessment for M1 Junction 9
- Additional data for M25 Junction 22
- Attendance at the following meetings:
  - 12th March 2025
  - 19th March 2025

The new tasks National Highways requested on 12th March 2025 were:

- Develop an Arcady model of the M25 Junction 22 and assess the junction using 2041 SATURN COMET flows with and without Local Plan to understand the changes in queueing
- Identify which Local Plan developments generate the additional trips at the M1 Junction 9 diverge
- To generate a potential mitigation proposal for M1 Junction 9 diverge which will provide a drawing of the proposal, undertake an initial safety assessment and provide an initial cost estimate

## TASKS

This section of the fee proposal outlines the tasks outlined above and provide additional details around the work required and assumptions.

### Diverge assessment for M1 Junction 9

This task involved extracting traffic flow information from the COMET model into a diverge assessment spreadsheet and reviewing the results.

### Additional data for M25 Junction 22

This is the cost for extracting turning flows and delays at the junction and reviewing the results.

### Attendance at the following meetings

WSP have attended the following meetings between SADC, HCC, National Highways. To discuss the modelling results and tasks required to meet SADC's Local Plan programme.

- 12th March 2025
- 19th March 2025

**Develop an Arcady model of the M25 Junction 22 and assess the junction using 2041 SATURN flows with and without Local Plan to understand the changes in queueing**

WSP will develop two Arcady junctions model of the M25 Junction 22 one of the Bell Roundabout and the other the B556 Roundabout, see Figure 1.

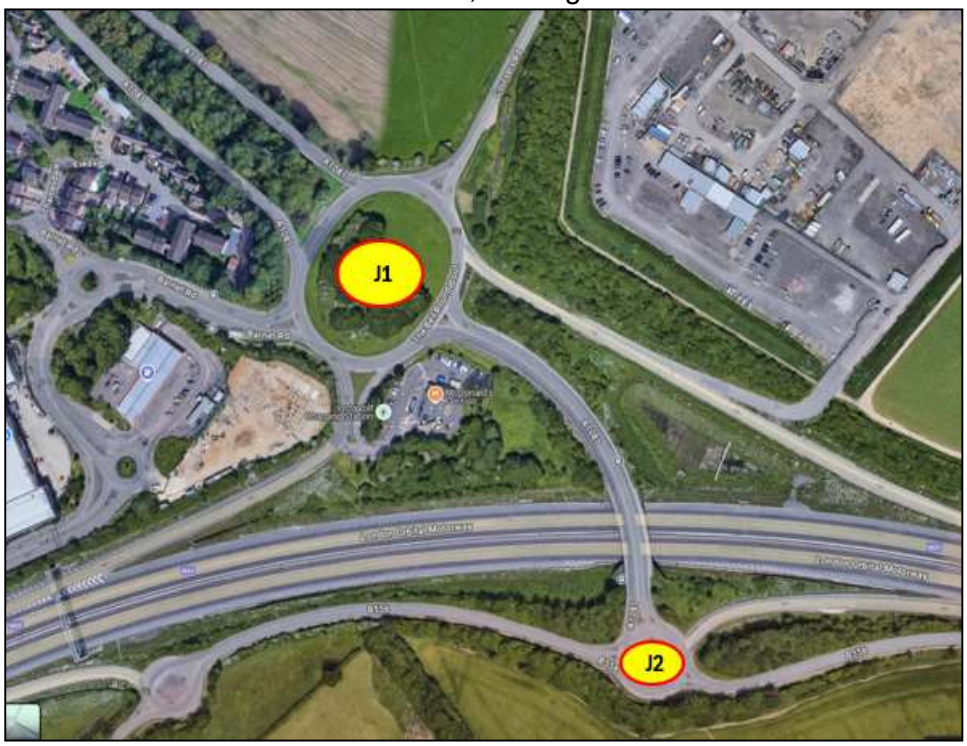


**Figure 1: Arcady Junction Models**

WSP ideally require an OS Map or CAD drawings of the junctions to define the geometries. **HCC/ SADC to confirm whether this information is readily available.** If this is not available WSP can use Google maps for the measurements which would be adequate but not as accurate as an OS Map or CAD drawings.

WSP will:

- Generate two Arcady junctions models and define the roundabout arms based on the geometry inputs
- Extract data from the COMET model to be fed into the ARCADY models and prepare the OD demand matrices
- Include the percentage of Heavy Goods Vehicles (HGV) for each arm
- Run the models for the following scenarios:
  - Future Year 2041 without Local Plan
  - Future Year 2041 with Local Plan
- For each scenario, run the model for both AM and PM peak periods
- Extract results such as RFC, delays, queues, and Level of Service for each arm
- Prepare a short Technical Note outlining the work undertaken, assumptions used and results to share with National Highways

**Identify which Local Plan developments generate the additional trips at the M1 Junction 9 diverge**

The purpose of this is to identify which Local Plan developments are generating the additional

**To generate a potential mitigation proposal for M1 Junction 9 diverge which will provide a drawing of the proposal, undertake an initial safety assessment and provide an initial cost estimate**

The cost for this task is currently being developed by our wider team in WSP and will be shared with you once complete.

# FEES

Table 1 and Table 2 provide a breakdown of the fee by task and staff

**Table 1: St Albans Local Plan National Highways Task Costs**

| Tasks |
|---|
| Diverge Assessment M1 J9 |
| M25 Junction 22 |
| Project Management, Meeting Attendance and Preparation (12/03/25 and 19/03/25) |
| Arcady Model M25 J22 |
| M1 J9 Diverge Trips |
| M1 J9 Mitigation Development |
| Total |

# TIMESCALES

We can identify which Local Plan developments which generate the additional trips at the M1 Junction 9 diverge relatively quickly once we have received approval of our fee proposal.
The Arcady junction modelling is anticipated to take 3–4 weeks from approval to our fee proposal, this is dependent on the availability of resources at the time of acceptance of our fee proposal.