Appendix A: WSTM3 Traffic Modelling Assumptions
Figure 1  WSTM3 Forecast Scenario Assumptions
### Table 1  WSTM3 Forecast Scenario Assumptions. Links

<table>
<thead>
<tr>
<th>Links</th>
<th>Description</th>
<th>LAR</th>
<th>AI</th>
<th>FNDR</th>
</tr>
</thead>
<tbody>
<tr>
<td>N1 to N2&lt;sup&gt;C&lt;/sup&gt;: Toutley Road</td>
<td>Existing highway, no changes, 30mph speed limit. Length: 390m</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N2 to N5&lt;sup&gt;C&lt;/sup&gt;: North Wokingham Relief Road</td>
<td>6.0m single carriageway, 30mph speed limit. Length: 715m</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N5 to N6&lt;sup&gt;S&lt;/sup&gt;: Bell Foundry Lane</td>
<td>6.0m single carriageway, 30mph speed limit. Length: 500m. (Extract from SDL Drg. No. 1955/SK/052, Rev.A, Jan 10)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N6 to N8&lt;sup&gt;C&lt;/sup&gt;: North Wokingham Relief Road</td>
<td>6.0m single carriageway, 30mph speed limit. Length: 700m</td>
<td>x</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N7&lt;sup&gt;S&lt;/sup&gt;, Warren House Road, at a point 50m north of N8.</td>
<td>Change in speed limit: South of point N7 a 30mph will be enforced. The national speed limit applies north of this point.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N8 to N16&lt;sup&gt;S&lt;/sup&gt;: Kentwood Farm Access Road</td>
<td>6.0m single carriageway, 30mph speed limit. Length: 520m</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N13&lt;sup&gt;S&lt;/sup&gt;: Binfield Road, at a point 50m north of N12 (this was implemented in late 2010 but will not be in the 2010 model which represents early 2010).</td>
<td>Change in speed limit: South of point N13 a 30mph will be enforced on all roads. The national speed limit applies north of this point.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N15 to S1&lt;sup&gt;C&lt;/sup&gt;: A329 London Road</td>
<td>7.3m dual carriageway, 40mph speed limit. Length: 240m</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N15 to N18&lt;sup&gt;C&lt;/sup&gt;: Coppid Beech Park &amp; Ride</td>
<td>6.5m single carriageway, 30mph speed limit. Length: 30m</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

**Ashridge Interchange**

<table>
<thead>
<tr>
<th>Links</th>
<th>Description</th>
<th>LAR</th>
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</tr>
</thead>
<tbody>
<tr>
<td>N3&lt;sup&gt;C&lt;/sup&gt;: Ashridge Interchange (A329(M)/A321 Twyford Road)</td>
<td>East facing slip roads joined to A321 Twyford Road by three-arm roundabouts ∅30m ICD. Every roundabout arm is a single lane except for the A329(M) off-slip which has two lanes at the stopline for the left and right turn respectively. The slip roads are single lane roads with a speed limit of 70mph (MG1A/DG1A) and connect to A329(M) with Type A taper merge/diverge layouts (DMRB TD22/06). Two lanes marked on the mainline A329(M) carriageway for through traffic.</td>
<td>x</td>
<td>✓</td>
<td>x</td>
</tr>
</tbody>
</table>

**Full Northern Distributor Road**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>N16 to N17&lt;sup&gt;C&lt;/sup&gt;: North Wokingham Relief Road</td>
<td>6.5m single carriageway, 40mph speed limit. Length: 860m</td>
<td>x</td>
<td>x</td>
<td>✓</td>
</tr>
<tr>
<td>N17 to N18&lt;sup&gt;C&lt;/sup&gt;: North Wokingham Relief Road</td>
<td>6.5m single carriageway, 30mph speed limit. Length: 720m</td>
<td>x</td>
<td>x</td>
<td>✓</td>
</tr>
</tbody>
</table>

*Note: Suffix indicates whether the junction assumption is that of the Council (C) or the SDL/developer (S).*
<table>
<thead>
<tr>
<th>Junction</th>
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</tr>
</thead>
<tbody>
<tr>
<td>N1&lt;sup&gt;C&lt;/sup&gt;: Forest Road / Toutley Road</td>
<td>In Sce B - Three-arm priority junction. Forest Road (S) to Toutley Road is the major movement. Forest Road (N) is the minor arm. Three-arm roundabout with one lane on each arm in other options.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N2&lt;sup&gt;C&lt;/sup&gt;: Toutley Road/ North Wokingham Relief Road</td>
<td>Three-arm ghost island priority junction. Major movement is the Toutley Road (N1) - NWRR (N6) movement. Toutley Road South is the minor arm.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N3&lt;sup&gt;C&lt;/sup&gt;: Ashridge Interchange (A329(M)/A321 Twyford Road)</td>
<td>East facing slip roads joined to A321 Twyford Road by three-arm roundabouts 30m ICD. Every roundabout arm is a single lane except for the A329(M) off-slip which has two lanes at the stopline for the left and right turn respectively. The slip roads are single lane roads with a speed limit of 70mph (MG1A/DG1A) and connect to A329(M) with Type A taper merge/diverge layouts (DMRB TD22/06). Two lanes marked on the mainline A329(M) carriageway for through traffic.</td>
<td>×</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>N4&lt;sup&gt;C&lt;/sup&gt;: Access to Toutley Industrial Estate extension from A321 Twyford Road.</td>
<td>Three arm priority junction with a ghost island right turn for traffic on Twyford Road. Twyford Road is the major movement and the industrial estate access is the minor arm.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N5&lt;sup&gt;S&lt;/sup&gt;: Twyford Road/ NWRR</td>
<td>Four-arm roundabout with two lane flare on each arm. 40m ICD. (SDL Drg. No. 1955/SK/052, Rev.A, Jan 10).</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N6&lt;sup&gt;S&lt;/sup&gt;: Warren House Road/ NWRR</td>
<td>Three-arm roundabout with two lane flare on each arm. 40m ICD.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N7&lt;sup&gt;S&lt;/sup&gt;: Warren House Road, at a point 50m north of N8.</td>
<td>Change in speed limit: South of point N7 a 30mph will be enforced. The national speed limit applies north of this point.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N8&lt;sup&gt;S&lt;/sup&gt;: Area NC and ND junction with Warren House Road</td>
<td>Four-arm roundabout with two lane flare on each arm. 35m ICD. (SDL Drg. No. Plan 006, Rev. F, Sep 09).</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N9&lt;sup&gt;C&lt;/sup&gt;: Area NC junction with Warren House Road</td>
<td>Three-arm priority junction with Warren House Road as the major through movement. Located 75m west of N10.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N10&lt;sup&gt;C&lt;/sup&gt;: Warren House Road/Keephatch Road</td>
<td>Maintain existing mini-roundabout.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N11&lt;sup&gt;S&lt;/sup&gt;: Area ND junction with Keephatch Road</td>
<td>Three-arm mini-roundabout with a small flare maintaining a single lane entry on each arm. 24m ICD. (SDL Drg. No. Plan 005, Rev. E, Sep 09).</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>N12&lt;sup&gt;S&lt;/sup&gt;: Area NE and NF junction with Binfield Road</td>
<td>Three-arm roundabout 70m north of Plough Lane with a small flare maintaining a single lane entry on each arm. 14m ICD. Note: This junction is included in all scenarios as it is already built and in use.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
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<td>N13&lt;sup&gt;S&lt;/sup&gt;: Binfield Road, at a point 50m north of N12 (this was implemented in late 2010 but will not be in the 2010 model which represents early 2010).</td>
<td>Change in speed limit: South of point N13 a 30mph will be enforced on all roads. The national speed limit applies north of this point.</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>N14&lt;sup&gt;S&lt;/sup&gt;: London Road/Plough Lane</td>
<td>Priority junction maintained, but right turn from Plough Lane to London Road (direction Wokingham) is banned.</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>N15&lt;sup&gt;S&lt;/sup&gt;: A329 London Road/ North Wokingham Relief Road</td>
<td>Traffic signal controlled junction. Located at the existing access to the Hilton Hotel, 150m west of A329(M) Coppid Beech junction. Note A329 on both approaches is assumed to be dual carriageway. 100s cycle.</td>
<td>❌</td>
<td>❌</td>
<td>✔</td>
</tr>
<tr>
<td>N16&lt;sup&gt;C&lt;/sup&gt;: Connection to North Wokingham Relief Road</td>
<td>Ghost island priority junction with minor arm connecting to Zone ND (Note: Zone ND also connects to N11).</td>
<td>❌</td>
<td>❌</td>
<td>✔</td>
</tr>
<tr>
<td>N17&lt;sup&gt;C&lt;/sup&gt;: Binfield Road/ North Wokingham Relief Road</td>
<td>Four-arm roundabout with two lane flares on all arms. Ø48m. N7 is 200m from N13.</td>
<td>❌</td>
<td>❌</td>
<td>✔</td>
</tr>
<tr>
<td>N18&lt;sup&gt;C&lt;/sup&gt;: Coppid Beech P&amp;R/ North Wokingham Relief Road</td>
<td>Priority junction maintained, Access to Coppid Beech P&amp;R from N18-N15 Link.</td>
<td>✔</td>
<td>❌</td>
<td>❌</td>
</tr>
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