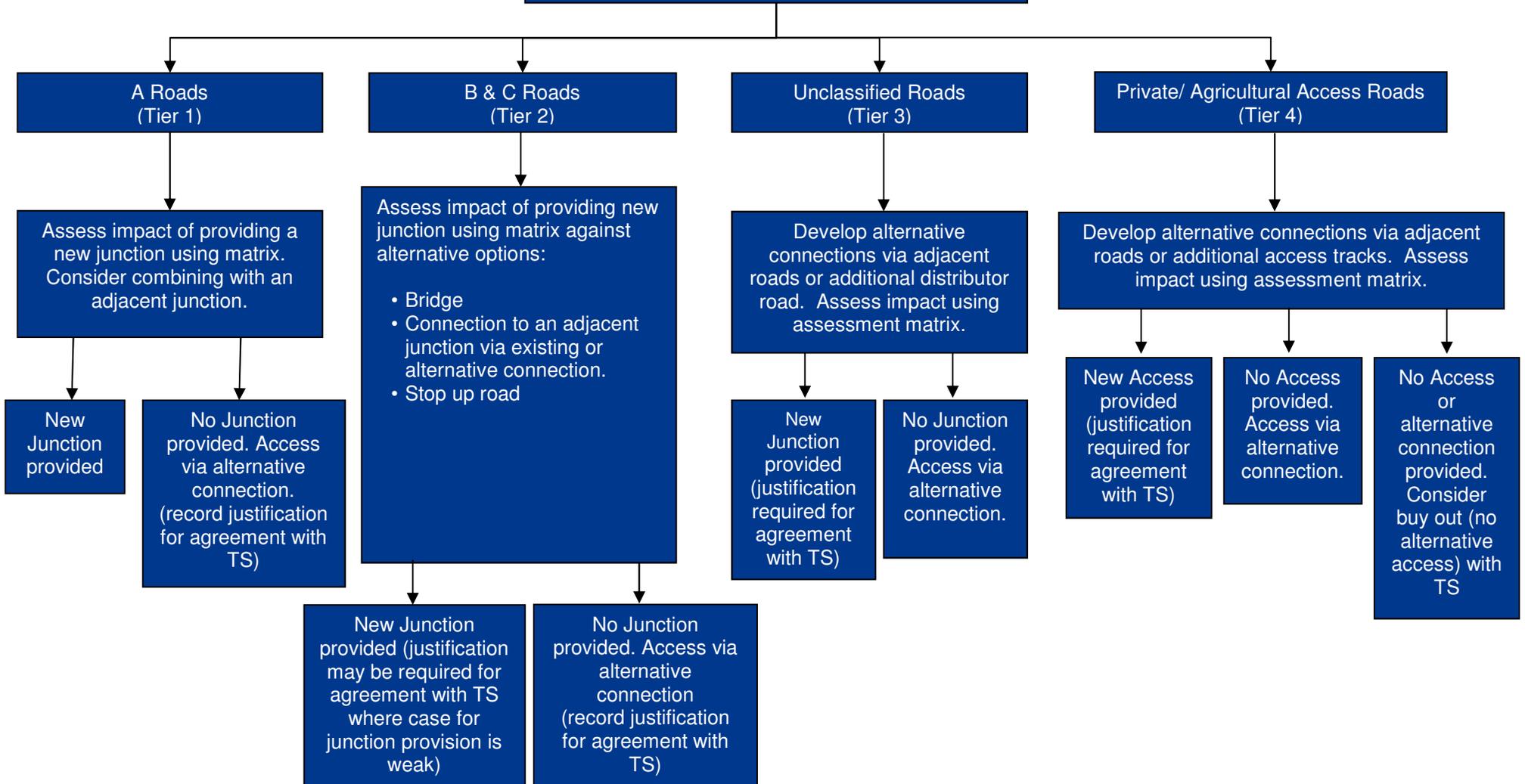


**Appendix J      Junctions & Access Strategy**



## Junction / Access Strategy



A96 Junction and Access Strategy Assessment Matrix	
TIER 1: A Class Roads	
Proposed Junction Location:	
The Tier 1 Assessment matrix shall assess the impact of providing a junction at the proposed location and where the proposed location is in proximity to another junction, assess if these junctions can be combined. The assessment of engineering, cost and environmental issues shall be undertaken appropriate to the level of detail available at the stage of assessment.	
Description of Option:	
Engineering and Cost Issues	Assessment Comments
<b>Length of Diversion/Journey time</b> <ul style="list-style-type: none"> <li>Is increase in journey time acceptable? (consider desired route and change in journey time to connect to A96 - test to determine increased journey time splits)</li> </ul>	
<b>Traffic flow</b> <ul style="list-style-type: none"> <li>Consider traffic flows on junction and surrounding network.</li> <li>For junctions on bypasses consider the wider economic effect of the junction location.</li> </ul>	
<b>Spacing</b> <ul style="list-style-type: none"> <li>Consider the spacing of the junctions.</li> <li>Can the proposed junction be combined with an adjacent junction?</li> </ul>	
<b>Standards</b> <ul style="list-style-type: none"> <li>Does the proposed location impose any constraints on the geometric standard of the junction or mainline?</li> </ul>	
<b>Cost</b> <ul style="list-style-type: none"> <li>Are there any specific features at the proposed junction location which may lead to a significant increase in the cost of the junction?</li> <li>Is the cost of providing a diversion to an adjacent junction less than the cost of the grade separated junction?</li> </ul> (Costs (at 2014 prices) listed below to be used for cost assessment: - £210/m2 for new road (£1.2 million for new underpass/overbridge) - £9.25 million for grade separated junction - £1.2million included for new structure)	
<b>Other Issues</b> <ul style="list-style-type: none"> <li>Are there any other engineering issues related to the provision of a junction at the proposed location for example buildability and resilience?</li> </ul>	
<b>Summary</b> <ul style="list-style-type: none"> <li>Provide a summary of the key engineering and economic assessment issues.</li> </ul>	
Environmental Issues	Assessment Comments
<b>Landscape and Visual</b> <ul style="list-style-type: none"> <li>Consider proximity to adjacent housing or other sensitive visual receptors.</li> </ul>	

<p><b>Cultural Heritage</b></p> <ul style="list-style-type: none"> <li>Consider the impact of the location of the junction/ alternative connection on recorded sites.</li> </ul>	
<p><b>Property/ Land</b></p> <ul style="list-style-type: none"> <li>Consider the impact of the location of the junction/ alternative connection on land take.</li> <li>Are any properties to be demolished?</li> </ul>	
<p><b>Human Impact (Air, Noise, Proximity to Settlements)</b></p> <ul style="list-style-type: none"> <li>Consider the impact of the proximity to housing, settlements and sensitive receptors.</li> </ul>	
<p><b>Severance</b></p> <ul style="list-style-type: none"> <li>Consider severance on NMUs, bus routes, community facilities and the like and the impact of the journey time and desire lines.</li> </ul>	
<p><b>Water Quality</b></p> <ul style="list-style-type: none"> <li>Does the proposed junction or alternative connection cross any flood plains or watercourses.</li> </ul>	
<p><b>Biodiversity</b></p> <ul style="list-style-type: none"> <li>Does the proposed junction or alternative connection impact directly or indirectly on any designated sites?</li> </ul>	
<p><b>Other Issues</b></p> <ul style="list-style-type: none"> <li>Are there any other environment issues related to the provision of a junction at the proposed location?</li> </ul>	
<p><b>Summary</b></p> <ul style="list-style-type: none"> <li>Provide a summary of the key environmental impacts assessment.</li> <li>Consider the effect of mitigation and/ or local re-siting where environmental impacts are potentially unacceptable</li> </ul>	
<p><b>Stakeholder Consultation</b></p>	<p><b>Assessment Comments</b></p>
<p><b>Stakeholder Perception</b></p> <ul style="list-style-type: none"> <li>Description of potential reasons for objection/acceptance of particular junction/ alternative connection by stakeholders</li> </ul>	
<p><b>Conclusions</b></p>	<p><b>Assessment Comments</b></p>
<p><b>Is a junction to be provided at the proposed location?</b></p> <p><b>If the outcome is NO, justification of decision to be agreed with Transport Scotland.</b></p>	

A96 Junction and Access Strategy Assessment Matrix	
TIER 2: B&C Class Roads	
Proposed Junction Location:	
The Tier2 Assessment matrix shall assess the impact of providing a junction at the proposed location against alternative options including a bridge, connection to adjacent junction via existing or alternative connections or stopping up the road. The assessment of engineering, cost and environmental issues shall be undertaken appropriate to the level of detail available at the stage of assessment.	
Description of Option:	
Engineering and Economic Issues	Assessment Comments
<b>Length of Diversion/Journey time</b> <ul style="list-style-type: none"> <li>Is increase in journey time acceptable? (consider desired route and change in journey time to connect to A96 - test to determine increased journey time splits)</li> </ul>	
<b>Traffic flow</b> <ul style="list-style-type: none"> <li>Consider traffic flows on junction and surrounding network. For junctions on bypasses consider the wider economic effect of the junction location.</li> </ul>	
<b>Spacing</b> <ul style="list-style-type: none"> <li>Consider the spacing of the junctions.</li> <li>Can the proposed junction be combined with an adjacent junction?</li> </ul>	
<b>Standards</b> <ul style="list-style-type: none"> <li>Does the proposed location impose any constraints on the geometric standard of the junction or mainline?</li> </ul>	
<b>Cost</b> <ul style="list-style-type: none"> <li>Are there any specific features at the proposed junction location which may lead to a significant increase in the cost of the junction or alternative connection?</li> <li>Is the cost of providing a diversion to an adjacent junction less than the cost of the grade separated junction?</li> </ul> (Costs (at 2014 prices) listed below to be used for cost assessment: - £210/m2 for new road (£1.2 million for new underpass/overbridge) - £9.25 million for grade separated junction - £1.2 million included for new structure)	
<b>Other Issues</b> <ul style="list-style-type: none"> <li>Are there any other engineering issues related to the provision of a junction/alternative connection at the proposed location for example buildability and resilience?</li> </ul>	
<b>Summary</b> <ul style="list-style-type: none"> <li>Provide a summary of the key engineering and economic assessment issues.</li> </ul>	
Environmental Issues	Assessment Comments
<b>Landscape and Visual</b> <ul style="list-style-type: none"> <li>Consider proximity to adjacent housing or other sensitive visual receptors.</li> </ul>	

<p><b>Cultural Heritage</b></p> <ul style="list-style-type: none"> <li>Consider the impact of the location of the junction/ alternative connection on recorded sites.</li> </ul>	
<p><b>Property/ Land</b></p> <ul style="list-style-type: none"> <li>Consider the impact of the location of the junction/ alternative connection on land take.</li> <li>Are any properties to be demolished?</li> </ul>	
<p><b>Human Impact (Air, Noise, Proximity to Settlements)</b></p> <ul style="list-style-type: none"> <li>Consider the impact of the proximity to housing, settlements and sensitive receptors.</li> </ul>	
<p><b>Severance</b></p> <ul style="list-style-type: none"> <li>Consider severance on NMUs, bus routes, community facilities and the like and the impact of the journey time and desire lines.</li> </ul>	
<p><b>Water Quality</b></p> <ul style="list-style-type: none"> <li>Does the proposed junction or alternative connection cross any flood plains or watercourses?</li> </ul>	
<p><b>Biodiversity</b></p> <ul style="list-style-type: none"> <li>Does the proposed junction or alternative connection impact directly or indirectly on any designated sites?</li> </ul>	
<p><b>Other Issues</b></p> <ul style="list-style-type: none"> <li>Are there any other environmental issues related to the provision of a junction/alternative connection at the proposed location?</li> </ul>	
<p><b>Summary</b></p> <ul style="list-style-type: none"> <li>Provide a summary of the key environmental impacts assessment. Consider the effect of mitigation and/ or local re-siting where environmental impacts are potentially unacceptable</li> </ul>	
<p><b>Stakeholder Consultation</b></p>	<p><b>Assessment Comments</b></p>
<p><b>Stakeholder Perception</b></p> <ul style="list-style-type: none"> <li>Description of potential reasons for objection/acceptance of particular junction/ alternative connection by stakeholders</li> </ul>	
<p><b>Conclusions</b></p>	
<p><b>Is a junction to be provided at the proposed location?</b></p> <p><b>If the outcome is NO, or where the case for providing a junction is weak, justification of decision to be agreed with Transport Scotland.</b></p>	

A96 Junction and Access Strategy Assessment Matrix	
TIER 3: Unclassified Roads	
Proposed Alternative Connection Location:	
The Tier 3 Assessment matrix shall assess the impact of providing an alternative connection at the proposed location. The assessment of engineering, cost and environmental issues shall be undertaken appropriate to the level of detail available at the stage of assessment.	
Description of Option:	
Engineering and Economic Issues	Assessment Comments
<b>Length of Diversion/Journey time</b> <ul style="list-style-type: none"> <li>Is increase in journey time acceptable? (consider desired route and change in journey time to connect to A96 - test to determine increased journey time splits)</li> </ul>	
<b>Standards</b> <ul style="list-style-type: none"> <li>Does the proposed location impose any constraints on the geometric standard of the alternative connection?</li> </ul>	
<b>Cost</b> <ul style="list-style-type: none"> <li>Are there any specific features at the proposed alternative connection which may lead to a significant increase in the cost?</li> <li>Is the cost of providing a diversion to an adjacent junction more expensive than the cost of the grade separated junction?</li> </ul> (Costs (at 2014 prices) listed below to be used for cost assessment: - £210/m2 for new road (£1.2 million for new underpass/overbridge) - £9.25 million for grade separated junction - £1.2million included for new structure)	
<b>Other Issues</b> <ul style="list-style-type: none"> <li>Are there any other engineering issues related to the provision of an alternative connection at the proposed location for example buildability and resilience?</li> </ul>	
<b>Summary</b> <ul style="list-style-type: none"> <li>Provide a summary of the key engineering and economic assessment for the alternative connection.</li> </ul>	
Environmental Issues	Assessment Comments
<b>Landscape and Visual</b> <ul style="list-style-type: none"> <li>Consider proximity to adjacent housing or other sensitive visual receptors.</li> </ul>	
<b>Cultural Heritage</b> <ul style="list-style-type: none"> <li>Consider the impact of the location of the alternative connection on recorded sites.</li> </ul>	
<b>Property/ Land</b> <ul style="list-style-type: none"> <li>Consider the impact of the location of the alternative connection on land take.</li> <li>Are any properties to be demolished?</li> </ul>	

<p><b>Human Impact (Air, Noise, Proximity to Settlements)</b></p> <ul style="list-style-type: none"> <li>Consider the impact of the proximity to housing, settlements and sensitive receptors.</li> </ul>	
<p><b>Severance</b></p> <ul style="list-style-type: none"> <li>Consider severance on NMUs, bus routes, community facilities and the like and the impact of the journey time and desire lines.</li> </ul>	
<p><b>Water Quality</b></p> <ul style="list-style-type: none"> <li>Does the proposed alternative connection cross any flood plains or watercourses?</li> <li></li> </ul>	
<p><b>Biodiversity</b></p> <ul style="list-style-type: none"> <li>Does the proposed alternative connection impact directly or indirectly on any designated sites?</li> </ul>	
<p><b>Other Issues</b></p> <ul style="list-style-type: none"> <li>Are there any other environmental issues related to the provision of an alternative connection at the proposed location?</li> </ul>	
<p><b>Summary</b></p> <ul style="list-style-type: none"> <li>Provide a summary of the key environmental impacts assessment.</li> <li>Consider the effect of mitigation and/ or local re-siting where environmental impacts are potentially unacceptable</li> </ul>	
<p><b>Stakeholder Consultation</b></p>	<p><b>Assessment Comments</b></p>
<p><b>Stakeholder Perception</b></p> <ul style="list-style-type: none"> <li>Description of potential reasons for objection/acceptance of alternative connection by stakeholders</li> </ul>	
<p><b>Conclusions</b></p>	
<p><b>Is the alternative connection to be provided at the proposed location acceptable?</b></p> <p><b>If the outcome is NO, and a junction is therefore proposed, justification of decision to be agreed with Transport Scotland.</b></p>	

A96 Junction and Access Strategy Assessment Matrix	
TIER 4: Private and Agricultural Access	
Proposed Alternative Connection Location:	
The Tier 4 Assessment matrix shall assess the impact of providing an alternative connection at the proposed location. The assessment of engineering, cost and environmental issues shall be undertaken appropriate to the level of detail available at the stage of assessment.	
Description of Option:	
Engineering and Economic Issues	Assessment Comments
<b>Length of Diversion/Journey time</b> <ul style="list-style-type: none"> <li>Is increase in journey time acceptable? (consider desired route and change in journey time to connect to A96 - test to determine increased journey time splits)</li> </ul>	
<b>Standards</b> <ul style="list-style-type: none"> <li>Does the proposed location impose any constraints on the geometric standard of the alternative connection?</li> </ul>	
<b>Cost</b> <ul style="list-style-type: none"> <li>Is the cost of diversion equal or higher than cost of holding/ value of the property?</li> </ul> (Costs (at 2014 prices) listed below to be used for cost assessment: - £110/m <sup>2</sup> for new road (£1.2 million for new underpass/overbridge) Are there any specific features at the proposed alternative connection which may lead to a significant increase in the cost it?	
<b>Other Issues</b> <ul style="list-style-type: none"> <li>Are there any other engineering issues related to the provision of an alternative connection at the proposed location for example buildability and resilience?</li> </ul>	
<b>Summary</b> <ul style="list-style-type: none"> <li>Provide a summary of the key engineering and economic assessment for the alternative connection.</li> </ul>	
Environmental Issues	Assessment Comments
<b>Landscape and Visual</b> <ul style="list-style-type: none"> <li>Consider proximity to adjacent housing or other sensitive visual receptors.</li> </ul>	
<b>Cultural Heritage</b> <ul style="list-style-type: none"> <li>Consider the impact of the location of the alternative connection on recorded sites.</li> </ul>	
<b>Property/ Land</b> <ul style="list-style-type: none"> <li>Consider size of business/land holding, size of area required relative to overall size, consider area of land severed).</li> <li>Are any properties to be demolished?</li> </ul>	

<p><b>Human Impact (Air, Noise, Proximity to Settlements)</b></p> <ul style="list-style-type: none"> <li>Consider the impact of the proximity to housing, settlements and sensitive receptors.</li> </ul>	
<p><b>Severance</b></p> <ul style="list-style-type: none"> <li>Consider severance on NMUs, bus routes, community facilities and the like and the impact of the journey time and desire lines.</li> </ul>	
<p><b>Water Quality</b></p> <ul style="list-style-type: none"> <li>Does the proposed alternative connection cross any flood plains or watercourses.</li> </ul>	
<p><b>Biodiversity</b></p> <ul style="list-style-type: none"> <li>Does the proposed alternative connection impact directly or indirectly on any designated sites?</li> </ul>	
<p><b>Other Issues</b></p> <ul style="list-style-type: none"> <li>Are there any other environmental issues related to the provision of an alternative connection at the proposed location?</li> </ul>	
<p><b>Summary</b></p> <ul style="list-style-type: none"> <li>Provide a summary of the key environmental impacts assessment. Consider the effect of mitigation and/ or local re-siting where environmental impacts are potentially unacceptable</li> </ul>	
<p><b>Stakeholder Consultation</b> <span style="float: right;"><b>Assessment Comments</b></span></p>	
<p><b>Stakeholder Perception</b></p> <ul style="list-style-type: none"> <li>Description of potential reasons for objection/acceptance of alternative connection by landowner.</li> </ul>	
<p><b>Conclusions</b></p>	
<p><b>Is an alternative connection to be provided at the proposed location?</b></p> <p><b>If the outcome is NO, and a new access is to be provided, justification of the decision to be agreed with Transport Scotland.</b></p> <p><b>In addition, if the outcome is NO, and no alternative access is to be provided, consider buy out in consultation with Transport Scotland</b></p>	