

# Role Profile

## Part A - Grade & Structure Information

<b>Job Family Code</b>	<b>9RT</b>	<b>Role Title</b>	<b>Traffic Systems Engineer Optimisation Team.</b>
<b>Senior</b>	PS9	<b>Reports to (role title)</b>	<b>Traffic Operations Team Leader</b>
		<b>Directorate</b>	<b>Highways Transport and Network Management</b>
<b>JE Band</b>	314-370	<b>Service</b>	<b>Place</b>
		<b>Team</b>	<b>Traffic Systems Team</b>
		<b>Date Role Profile was created</b>	<b>Oct-25</b>

## Part B - Job Family Description

The below profile describes the general nature of work performed at this level as set out in the job family. It is not intended to be a detailed list of all duties and responsibilities which may be required. The role will be further defined by annual objectives, which will be developed with the role holder. The Council reserves the right to review and amend the job families on a regular basis.

<b>Role Purpose</b> including key outputs	<p>As a member of the Traffic Systems Optimisation Team, working to improve journey times on the highway network and reducing Congestion by delivering a programme of complex traffic signal operational improvements, through validation of the traffic signals. Creating Urban Traffic Management and Control (UTMC) based traffic signal strategies. and operation of Surrey's Intelligent Transport Systems (ITS) to maximise their operational efficiencies that works towards the objective of managing and reducing congestion.</p> <p>Working with Utility companies and the Street Works team to mitigate the impact of works on the Highway. Liasing with other teams and external partners to reduce congestion on the network.</p> <p>Co-ordinate the work of multiple contractors to ensure schemes are delivered on time and to budget.</p>
<b>Work Context</b>	<p>The Highways and Transport Service is one of the three services within the Environment &amp; Infrastructure Directorate. The Highways and Transport Service is responsible for ensuring the effective management, maintenance and improvement of all highway and transport assets, including flood risk management. As Highway Authority and Lead Local Flood Authority, we are responsible for assets with a gross replacement cost of £7.8 billion, including over 3,018 miles of roads, 1,800 bridges and structures and 3,262 miles of pavement. The service c has approximately 230 staff, lead by a Head of Service and two Group Managers.</p> <p>The Network Management Group's role is to set, and deliver, the asset management and flood risk strategies, manage the network, set local policy and provide a directorate wide business and consultancy function. The group work jointly with a range of partner organisations to implement outcome based asset management in Surrey, identify and deliver capital maintenance improvements and lead on several statutory duties including network, safety, and flood management.</p> <p>Based at the County Council's Network Management Information Centre (NMIC), the post holder is required, with minimal supervision, to manage the feasibility, design and implementation of Traffic Signal and Intelligent Transport Systems and ensure their operational safety and efficiency. The post holder will also be responsive to the demands and priorities of the wider directorate to develop systems, which provide a safe and efficient road network using ITS and other infrastructure to manage congestion.</p> <p>The post holder will be required to work on site and carry out out-of-hours standby duties on a rota basis as necessary.</p> <p>The role will also include site visits to monitoring construction, as necessary, and to commission new installations once construction is completed.</p>
<b>Line management responsibility</b> if applicable	The post holder be responsible for the management of specialist contractors and other team members that may be attached to a particular project.
<b>Budget responsibility</b> if applicable	The post holder will be responsible for the financial management of projects to meet financial targets.

<p><b>Representative Accountabilities</b> Typical accountabilities in roles at this level in this job family</p>	<p>Planning &amp; Organising</p> <ul style="list-style-type: none"> <li>• Deliver projects and/or audits within a defined area of work as directed to input to relevant strategies and contribute to the delivery of directorate objectives.</li> </ul> <p>Policy and Compliance</p> <ul style="list-style-type: none"> <li>• Input as required to the development of strategies and policies.</li> <li>• Provide guidance and support to stakeholders as required to ensure policy and specification compliance.</li> </ul> <p>People &amp; partnerships</p> <ul style="list-style-type: none"> <li>• Deliver high quality technical advice/ services engaging a range of stakeholders.</li> <li>• Liaise, communicate and build relationships with other departments, customers, partner organisations, agencies and/or contractors to engage and consult on plans or projects as appropriate.</li> <li>• May manage a team to deliver standardised processes and ensure all officers are appropriately supervised, managed and trained.</li> </ul> <p>Resources</p> <ul style="list-style-type: none"> <li>• Ensure that work and projects are delivered within agreed resources and assist with budget/resource management in accordance with council policies and procedures.</li> <li>• May have delegated responsibility for a budget(s).</li> </ul> <p>Analysis, Reporting &amp; Documentation</p> <ul style="list-style-type: none"> <li>• Assess data and conduct analysis in a technical area, presenting results and putting forward recommendations to support decision making.</li> </ul> <p>Duties for all</p> <p>Values: To uphold the values and behaviours of the organisation.</p> <p>Equality &amp; Diversity: To work inclusively, with a diverse range of stakeholders and promote equality of opportunity.</p> <p>Health, Safety &amp; Welfare: To maintain high standards of Health, Safety and Welfare at work and take reasonable care for the health and safety of themselves and others.</p>
<p><b>Education, Knowledge, Skills &amp; Abilities, Experience and Personal Characteristics</b></p>	<ul style="list-style-type: none"> <li>• Appropriate technical qualification at Degree, HND or HNC level.</li> <li>• May require a specialist technical qualification or membership of an appropriate professional institution.</li> <li>• Sound understanding of subject matter, legislation, principles and practices relevant to the technical area.</li> <li>• Ability to apply project management principles and techniques to manage a range of projects through to completion.</li> <li>• Practical or professional experience and understanding of a specialist area or supporting service teams and/or providing support to the public.</li> <li>• Ability to work on own initiative, with solution focused problem solving skills.</li> <li>• Proven written and oral communication with the ability to engage and work in collaboration with others.</li> <li>• Comprehensive knowledge of computerised business systems.</li> </ul>
<p><b>Details of the specific qualifications and/or experience if required for the role in line with the above description</b></p>	<p>Relevant HNC/HND qualification Or NVQ equivalent</p> <p>Knowledge and experience of delivering projects relating to current intelligent transport systems, including control methodology, techniques standards, specifications, regulations, practice and hardware &amp; software applications.</p> <p>Detailed experience in civil/traffic engineering.</p> <p>Knowledge/experience of Procurement of works and service contracts</p> <p>Experience of working with contractors to improve service delivery</p> <p>Detailed experience in design, operation and maintenance of traffic control systems</p> <p>Experience of managing programme delivery budgets</p>
<p><b>Role Summary</b></p>	<p>Roles at this level are technical specialists professionally qualified in their specialist area. They will provide technical and regulatory guidance and advice to a range of stakeholders in order to assess and mitigate risk and monitor and ensure compliance with relevant requirements. They will have a fair degree of autonomy and work closely with a range of technical and non technical stakeholders. Forward planning could be for months ahead and the role will contribute to longer-term development.</p>
<p><b>Reference Number</b></p>	<p>BM-2026-022</p>