JOB ROLE STATEMENT

OPERATIONAL MODELLING AND VISUALISATION CO-ORDINATOR LEVEL 6

DIRECTORATE BRANCH NETWORK OPERATIONS

NETWORK PERFORMANCE

POSITION NO

P0062868 / P0062974 / P0063179 / P0063180

KEY RESPONSIBILITIES

Co-ordinate operational traffic modelling and visualisation activities for either the North or South area of the Metropolitan road network in order to optimise network operations performance.

KEY DELIVERIES

Traffic Modelling

- Co-ordinate traffic operational modelling and optimisation simulations to enable impact analysis for network areas, routes and intersections, microscope, microscopic and intersection modelling.
- Utilise operational (tactical) modelling, visualisation and on-route assignment specialist capability to enable better operational decision making by giving a more realistic indication of outcomes within either the North or South area of the network.
- Perform specialist modelling and intersection analysis to predict the impact of large and complex changes across the North or South road network (such as accidents, road closures and road detours).
- Quantity and assess complex Main Roads' traffic systems operations efficiency through modelling utilising real-time data to deliver dependable solutions for the management and optimisation of the road network in either the North or South area.
- Provide specialist advice for reconciliation between strategic models (such as ROM24) managed by Planning and Technical Services teams and operational models managed by Network Operations.
- Develop complex models for either the North or South areas that simulate real-life traffic conditions for testing "scenarios" in order determine impacts of proposal, for base vs future year modelling, anticipated changes in network operation.
- Review the outcomes of key operational modelling work conducted with the Operational Modelling and Visualisation Manager to ensure the correct operational decisions are taken, providing a balanced, impartial quantitative viewpoint of schemes.

Leadership and Management

- Supervise a small team to perform modelling capabilities within either the North or South area of the network using a suite of
 modelling and visualisation tools which included but are not limited to: LISNIG, TRANSYT, SIDRA, AIMSUN, VISSIM and 3D
 studio Max.
- Co-ordinate the participation in Main Roads on modelling and analysis forums and working parties.
- Manage human, financial, technological, physical and other resources within agreed allocations to meet agreed outcomes.
- · Manage employee behaviour, performance and development.

Stakeholder Relationships

- Build and enhance collaborative working relationships with the Manager Network Performance, Network Area Performance
 Managers, Route Managers, Operations Analysis and Benefits Realisation Manager, SCATS and SVD Technical team, Operational
 Modelling and Visualisation team and Planning and Technical Services Directorate's Strategic/Micro-modelling team.
- Collaborate with other operational branches to gain considerable understanding of factors affecting traffic performance and the causes of traffic congestion.
- Communicate outcomes of modelling exercises using a series of modelling tools (such as fly through visualisation projections) that enable simple and concise communication of changes to multiple stakeholder groups.

OCCUPATIONAL SAFETY, HEALTH AND WELLBEING (OSH&W)

Responsible for active participation and performance to OSH&W standards as detailed by the Main Roads' Safety, Health and Wellbeing (SH&W) Management System - refer to "SH&W Responsibility and Accountability Procedure" on 'iRoads' intranet.

LOCATION

Main Roads is a regionalised organisation with key delivery centres operating from the Kimberley to the Great Southern regions, including the metropolitan area. The incumbent of this position may be required to undertake a role in a region for a period of time.

DYNAMIC RESOURCING

The incumbent of the position may be required to perform any other role within the incumbent's level of skill, competence and responsibility as directed by the Managing Director of Main Roads to meet the organisation's objectives and the incumbent's development.

REPORTING RELATIONSHIPS

This position reports to:

(A) TITLE AND LEVEL
OPERATIONAL MODELLING AND VISUALISATION MANAGER

LEVEL 7

POSITION NO P0062855 Position No: P0062868 / P0062974 / P0063179 / P0063180

OPERATIONAL MODELLING AND VISUALISATION CO-ORDINATOR LEVEL 6

POSITIONS UNDER DIRECT SUPERVISION

ALL POSITIONS UNDER CONTROL

List the position numbers, titles and levels of positions directly supervised		State number of positions only			
TITLE and LEVEL TBA	POSITION No	CATEGORY Salaried,	<i>NUMBER</i> TBA		
		TOTAL	TRA		

SELECTION CRITERIA

ESSENTIAL:

- Substantial skill, knowledge and experience in:
 - transport planning, including traffic/transport modelling and monitoring
 - operational traffic/transport analysis including monitoring, modelling, visualisation and/or operational research
 - use of operational modelling for network optimisation, notably in the areas of signal control, priority junctions and roundabout design
 - delivering technical presentations and information to groups and individuals
 - building and enhancing stakeholder relationships
 - managing financial, technological, physical and other resources within agreed allocations to meet agreed outcomes
 - managing employee behaviour, performance and development
- Knowledge of:
 - and understanding of standard traffic/transport modelling and visualisation tools including, but not limited to; LINSIG, TRANSYT, SIDRA, AIMSUN, VISSIM, ARCADY, PICADY and 3D studio Max
 - policies and practices on Occupational Safety and Health, and on EEO, diversity and equity
- Possession of a current Western Australian 'C' Class (car) motor vehicle drivers licence or an approved equivalent.

DESIRABLE:

A Degree in Engineering or Transport Planning.

CERTIFICATION

1.	The details c	ontained in this Job	Role-Statement l	nave been reviewed and	conform	to Main Roads guidelines.		
SIGN	IATURE /	MANANA BRANCHISECTIO		DI LANGROUDI	DATE	14-9-2016		
2.		√ contained in this docu s of the position.	ment are an acc	urate statement of the o	luties, res _l	oonsibilities and other		
SIGN	IATURE	EXECUTIVE BIRE	CON		DATE	4.09.16		
3. The details contained in this document have been reviewed and conform to Main Roads guidelines.								
SIGN	IATURE	MANAGER HR BL	MILLLY ISINESS	·	DATE	15/9/16		

Page 2