

Background & Issues

Road hierarchies have been developed by Main Roads Western Australia and by the Western Australian Planning Commission (WAPC). The benefit of the road hierarchy is that it assists in the prioritisation of funds, and determines standards for construction that balance budget with road efficiency and safety.

Most roads within the Shire are already defined by the existing hierarchies of Main Roads and the WAPC. However, these hierarchies omit some road types and do not provide enough scope to differentiate between similar roads of different importance or differing traffic volumes. In addition, lower classification roads within the Shire often take heavy vehicles, which is usually not the case for metropolitan urban roads of similar characteristics.

The Shire of Manjimup directly manages approximately 1400km of road, both sealed (~900km) and unsealed (~500km). Collectively known as Local Government Roads, they all have a similar role; to provide for the efficient mobility of people and goods.

Objectives

The intent of the road hierarchy is to provide minimum standards for construction and maintenance of roads within the Shire and to prioritise the same. The standards of maintenance and construction will represent the adopted Levels of Service (LOS) for each road within the Shire.

Specifically, the road hierarchy will provide the following:

- a guidance to staff in preparing annual budgets and allocating resources to road maintenance determined by Shire's Road Asset Maintenance Management System Road Asset Maintenance Management (RAMM) System; and
- to define minimum standards for construction that balance the cost of ownership and construction against community expectations.

Area of Application

All roads under the control or maintained by the Shire.

Policy Measures

1. Road Hierarchy Classifications

Roads within the Shire shall be defined by one of the following classifications:

Classification Name	Classification Code	Classification Description
Primary Distributor	SPD	These roads are the primary road
(Sealed)		traffic links within the Shire. These
		roads provide town to town links within
		the Shire and beyond the Shire's
		boundary. The standard of
		construction and maintenance has the
		largest impact on overall road network
		efficiency, making up the largest part of
		town to town trips. These roads are

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		currently all under the control of Main
		Roads Western Australia.
District Distributor Road (Sealed)	SDD1 & SDD2	District distributor roads are strategically important links within the Shire. Generally these roads connect large population or industry areas to primary distributor roads or other large population or industry areas. These roads might also provide a link between towns within or beyond the boundaries of the Shire, although with lower transport volumes, or as a secondary route to
		primary distributor roads. Two levels of service (LOS) classifications exist for district distributor roads to recognise the requirement for a higher LOS where the road is the only connection to a major industry or population centre.
Rural Local Distributor	SRLD	Sealed rural local distributor roads are
(Sealed)		the higher volume local roads within the rural areas. Generally, these roads are contained wholly within a population or industry area and provide the main link within the area to a district distributor road or primary distributor road.
Main Street Roads (Sealed)	SMS1, SMS2, SMS3 & SMS4	Main Street roads are within the commercial centres of each town. These roads will normally have a high level of pedestrian and vehicular traffic, with a large number of parked vehicles within the street. The focus of main street roads is business access by the public and aesthetics.
Urban Local Distributors (Sealed)	SUD	Urban distributor roads, similarly to rural local distributors, are higher volume local roads providing a link within a local population area (e.g. within a single suburb). These roads provide the link from other local roads to district distributor roads or other higher classification roads.

Industrial Roads (Sealed)	SI1 & SI2	Industrial roads may be either a local distributor or local access type road. Industrial roads vary in need from other sealed roads due to the larger vehicle masses and vehicle lengths that need to be accommodated.
Urban Local Roads (Sealed)	SUL	These roads are all other sealed urban roads.
Rural Local Roads (Sealed)	SRL	These roads are all other sealed rural roads.
Tourist Roads (Unsealed)	GT1 & GT2	Un-sealed tourist roads have differing needs to other un-sealed roads. The peak traffic types are often not use to driving on gravel roads, and a poorly maintained un-sealed tourist road could discourage the use of the road by tourists. These roads are also likely to have a relatively high volume of caravans and similar vehicles, which require additional width for passing and parking. The differing classifications within the un-sealed tourist roads allow differentiation between different tourist types and the volumes of tourist traffic on the road. GT1 roads are high volume tourist roads generally
		traversed by 2wd vehicles and are likely to be frequented by inter-state or international tourists. GT2 roads are lower volume tourist roads or those that are more likely to be used by 4wd vehicles.
Local Distributor Roads (Un-sealed)	GLD	Un-sealed local distributor roads are currently higher standard gravel roads. Some of these roads provide an alternative efficient connection between large population areas, or provide a 'short-cut' to a sealed road. These roads have a higher speed environment than other un-sealed roads within the Shire.
School Bus Routes (Un-sealed)	GSB	School bus routes will change year by year. These roads could be any type of existing un-sealed road, so the LOS defined for these roads could be over-

		ridden where the road's LOS is otherwise higher.
Rural Local Roads (Unsealed)	GLR	All other un-sealed local roads.
Laneways (Sealed & Unsealed)	LWY	Typically secondary access roads in urban areas.
Right of Ways	ROW	A specific road or track through grounds or property belonging to another.
Unallocated Crown Land & Vacant Crown Land	UCL & VCL	Section 3.53 of the Local Government (LG) Act 1995 "A local government is responsible for controlling and managing every otherwise unvested facility within its district". An 'otherwise unvested facility' means a thoroughfare, bridge, jetty, drain or watercourse belonging to the crown, the responsibility for controlling or managing which is not vested in any person other than under this section of the LG Act 1995.
Un-named Tracks	UT	A specific track accessing one property
Roads not under the care and control of the Shire but maintained by the Shire	Other	Private Roads

An example of some roads included in each hierarchical classification are listed in Appendix 1.

2. Road Hierarchy Priority for Construction and Maintenance

The capacity of the Shire to upgrade and maintain roads varies from year to year. Capital works are significantly funded through grants, which in some cases constrains where funds can be spent. In particular, Regional Road Group funding is restricted to certain roads within the District Distributor classification so these funds are not available for any other roads.

Due to the same plant and human resources being used to complete construction and maintenance works, the capacity to complete maintenance works is dependent on the size of the capital works program. In addition, poor weather can impact both the capital and maintenance programs. This is particularly the case where poor weather results in maintenance budgets being consumed in labour costs, with little on-ground benefit.

Within the context of these constraints when allocating maintenance tasks (these priorities will also be used for prioritising emergency response) equivalent road needs or equivalent road risks, should be prioritised in accordance with the following:

Priority Sealed	Road Classification
1	SDD1 & SDD2
2	SMS1, SMS2, SMS3
3	SRLD
4	SUD
5	SI1 & SI2
6	SUL
7	SRL
8	LWY/ROW
9	Other

Priority Un-sealed	Road Classification
1	GLD
2	GSB
3	GT1
4	GLR
5	GT2
6	LWY/ROW
7	UCL/VCL
8	Other

Where budget or other resource constraints (including those resulting from weather) prevent achieving the LOS in policy point 3.

3. Road Hierarchy Levels of Service (LOS)

Primary Distributor (Sealed) – SPD

SPD roads are all under the control of Main Roads. At this stage, standards for construction and maintenance are determined my Main Roads.

<u>District Distributor (Sealed) – SDD1 & SDD2</u>

New Construction (excluding new subdivision roads) LOS - SDD1 & SDD2

Pavement Width	Minimum 9m
Seal Width	Minimum 7m
Seal Type	2 coat chip seal
Design Speed	90km/hr with desirable minimum
	curve speed 70km/hr
Linemarking	As per Australian Standards with
	edge marking on both lanes.
Vegetation Clearance (within	Clear of bushy vegetation within 3m
constraints of clearing regulations)	of shoulder and removal of large
	trees within 1m of shoulder
Drainage Design	SDD1: 1 in 20 year storm
	SDD2: 1 in 10 year storm (in the case
	of new subdivisions, the
	requirements of Policy 9.1.4 shall
	prevail).
Guide Posts	To Australian Standards on curves
Speed Advisory Signs	To Australian Standards

Road Maintenance LOS - SDD1 & SDD2

Road Inspections	Day Inspection – Minimum 4 times per year
	Night Inspection – Minimum 1 time
	,
	per year
Road Re-sealing	Every 15 to 20 years
Shoulder Grading	Prior to drop-off reaching 60mm
Pot Holes/Edge Break	Patching truck to travel each road at least 3 times per year, to fix edge break (exceeding 150mm) and potholes.
	Where pot hole exceeding 300mm in diameter appears in wheel paths, pot hole to be repaired within 1 week (subject to weather) of notification.
	Where edge break exceeding 400mm appears on apex of curve, edge break to be repaired within 1 week (subject to weather) of notification.
Vegetation Management (within constraints of Native Clearing Regulations)	Verge spraying – once per year Removal – as per priority listing

Drainage	Clear known problem areas at least 1 time per year. - Inspect and clear all pipes and drains at least one time in each 3 years. - Attend (make safe and clear if possible) pipe blockages causing road flooding on day of notification (subject to weather conditions and emergency response).
Trees Over Road	Attend (remove tree or provide alternative access and make safe) trees over road within 3 hours of notification and remove tree within 2 working days of notification.
Other Infrastructure (e.g. advisory signs, guide posts etc)	As per policy point 4. below.
Other Maintenance	Other maintenance, such as bitumen edging or shoulder re-sheeting, will be determined by staff based on a minimum whole of life cost approach, within budget constraints.

Rural Local Distributor (Sealed) - SRLD

New Construction (excluding new subdivision roads) LOS

Pavement Width	Minimum 8m
Seal Width	Minimum 6m
Seal Type	2 coat chip seal
Design Speed	90km/hr 70km/hr with desirable
	minimum curve speed 70km/hr
	50km/hr
Vegetation Clearance (within	Clear of bushy vegetation within 3m
constraints of clearing regulations)	of shoulder and removal of large
	trees within 1m of shoulder
Drainage Design	1 in 10 year storm (in the case of new
	subdivisions, the requirements of
	Policy 9.1.4 shall prevail).
Guide Posts	To Australian Standards on curves
Speed Advisory Signs	To Australian Standards

Road Inspections	Day Inspection – Minimum 2 times
	per year
	Night Inspection – Minimum 1 time
	per year

Road Re-sealing	Every 15 to 20 years
Shoulder Grading	Prior to drop-off reaching 60mm.
Pot Holes/Edge Break	Patching truck to travel each road at least 2 times per year, to fix edge break (exceeding 150mm) and potholes.
	Where pot hole exceeding 300mm in diameter appears in wheel paths, pot hole to be repaired within 2 weeks (subject to weather) of notification.
	Where edge break exceeding 400mm appears on apex of curve, edge break to be repaired within 2 weeks (subject to weather) of notification.
Vegetation Management (within constraints of Native Clearing Regulations)	Verge spraying – once per year Removal – as per priority listing
Drainage	 Clear known problem areas at least 1 time per year. Inspect and clear all pipes and drains at least one time in each 3 years. Attend (make safe and clear if possible) pipe blockages causing road flooding on day of notification (subject to weather conditions and emergency response).
Trees Over Road	Attend (remove tree or provide alternative access and make safe) trees over road within 5 hours of notification and remove tree within 3 working days of notification.
Other Infrastructure (e.g. advisory signs, guide posts etc)	As per policy point 4. below.
Other Maintenance	Other maintenance, such as bitumen edging or shoulder re-sheeting, will be determined by staff based on a minimum whole of life cost approach, within budget constraints.

Main Street Roads (Sealed) - SMS1, SMS2, SMS3 & SMS4

New Construction LOS

Pavement and Seal Width	In accordance with applicable main street design. Otherwise, seal width to comprise a minimum 6m vehicle carriageway.
Seal Type	SMS1, SMS2, SMS3, SMS4: Asphalt including tack coat, kerb both sides (SMS1, SMS2, SMS3).
Design Speed	In accordance with applicable main street plan. Otherwise, generally low speed environment due to pedestrian movements and parking manoeuvres.
Vegetation	In accordance best practice
Drainage Design	1 in 10 year storm for CBD underground drainage. 1 in 10 year storm for residential underground network.
Speed Advisory Signs	To Australian Standards
Footpath	In accordance with Shire of Manjimup Bicycle and Footpath Plan
Street Lighting	In accordance with applicable main street design and to Australian Standards).

Road Inspections (including footpaths)	SMS1: Day Inspection – Minimum 4 times per year SMS2, SMS3 & SMS4: Day Inspection – Minimum 2 times per year SMS1, SMS2, SMS3 & SMS4: Night
	Inspection (excluding footpaths) – Minimum 1 time per year
Road Re-sealing	Asphalt – every 25 to 30 years
Pot Holes	Where pot hole exceeding 300mm in diameter appears, the pot hole is to be repaired within 1 week (subject to weather) of notification.
Vegetation Management	In accordance with Parks & Gardens
Drainage	Street sweeping:
	SMS1: 1 time per week
	SMS2: 1 time per quarter

Kerb Maintenance	SMS3: 1 time per quarter SMS4: Nil - Educt drainage gullies 1 time per year. - Attend (make safe and clear if possible) pipe blockages causing road flooding on day of notification (subject to weather conditions and emergency response). Repair damaged kerb within 3
	months of notification or identification.
Footpath Sweeping	Removal of reported hazards within 1 week of notification.
Footpath Repairs	Repair identified hazards, within budget constraints within 3 months of identification. Allocation of budget to be in accordance with policy point 2
Street Bins	Clear 3 times per week

Urban Local Distributor Roads (Sealed) SUD

New Construction (excluding new subdivision roads) LOS

Pavement and Seal Width	Seal width to comprise a minimum
	6m vehicle carriageway.
Seal Type	Desirably asphalt and kerb both sides
Design Speed	60km/hr with desirable minimum
	curve speed 40km/hr within
	constraints of existing road reserves
	and services.
Vegetation	In accordance with best practice
Drainage Design	1 in 10 year storm for underground
	network
Speed Advisory Signs	To Australian Standards
Footpath	In accordance with Shire of Manjimup
	Bicycle and Footpath Plan
Street Lighting	In accordance with Policy 9.1.3

Road Inspections (including	Day Inspection – Minimum 1 time per
footpaths)	year.
	Night Inspection (excluding footpath)
	- Minimum 1 time every 2 years
Road Re-sealing	2 coat seal - every 15 to 20 years
_	Asphalt – every 25 to 30 years

Pot Holes	Patching truck to travel each road at least 1 time per year to fix potholes.
	Where pot hole exceeding 300mm in diameter appears, the pot hole is to be repaired within 3 weeks (subject to weather and repairs to higher priority roads) of notification.
Vegetation Management	In accordance with Parks & Gardens
Drainage	Educt drainage gullies 1 time every 3 years.
	Removal of reported hazards within 2 weeks of notification.
	Attend (make safe and clear if possible) pipe blockages causing road flooding on day of notification (subject to weather conditions and emergency response).
Kerb Maintenance	Repair damaged kerb if risk to vehicle or pedestrian or likely to affect drainage, within 3 months of notification or identification.
Footpath Sweeping	Street sweeping: 4 times per year.
Footpath Repairs	Repair identified hazards, within budget constraints within 3 months of identification. Allocation of budget to be in accordance with policy point 2.

Industrial Roads (Sealed) SI1 & SI2

New Construction (excluding new subdivision roads) LOS

Pavement and Seal Width	Seal width to comprise a minimum 8m vehicle carriageway.
Seal Type	SI1: Desirably 40mm industrial asphalt SI2: 2 coat seal
Design Speed	60km/hr with desirable minimum curve speed 40km/hr within constraints of existing road reserves. Corners and road sweeps to
	accommodate vehicle combinations to 27.5 m in length (within constraints

	of existing road reserves and services)
Vegetation	In accordance with best practice
Drainage Design	1 in 10 year storm
Speed Advisory Signs	To Australian Standards
Street Lighting	In accordance with Policy 9.1.3

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Road Inspections	Day Inspection – Minimum 1 time per
	year
	Night Inspection – Minimum 1 time
	every 2 years
Road Re-sealing	2 coat seal - every 15 to 20 years
	Asphalt – every 25 to 30 years
Shoulder Grading	Prior to drop-off reaching 60mm.
Pot Holes/Edge Break	Patching truck to travel each road at least 1 times per year, to fix edge break (exceeding 150mm) and potholes.
	Where pot hole exceeding 300mm in diameter appears in wheel paths, pot hole to be repaired within 4 weeks (subject to weather) of notification.
	Where edge break exceeding 400mm appears on apex of curve, edge break to be repaired within 4 weeks (subject to weather) of notification.
Vegetation Management (within	Verge spraying –once per year
constraints of Native Clearing Regulations)	Removal – as per priority listing
Drainage	 Clear known problem areas at least 1 time per year. Inspect and clear all pipes and drains at least one time in each 5 years. Attend (make safe and clear if
	possible) pipe blockages causing road flooding within 2 days of notification (subject to weather conditions and emergency response).
Trees Over Road	Attend (remove tree or provide alternative access and make safe) trees over road within 10 hours of

	notification and remove tree within 3 working days of notification.
Other Infrastructure (e.g. advisory signs, guide posts etc)	As per policy point 4. below.
Other Maintenance	Other maintenance, such as bitumen edging or shoulder re-sheeting, will be determined by staff based on a minimum whole of life cost approach, within budget constraints.

Urban Local Sealed Roads SUL

New Construction (excluding new subdivision roads) LOS

Pavement and Seal Width	Seal width to comprise a minimum 6m vehicle carriageway.
Seal Type	2 coat seal (desirably asphalt and kerb both sides). Asphalt to be used in cul-de-sac heads
Design Speed	40km/hr with desirable minimum curve speed 20km/hr within constraints of existing road reserves and services.
Vegetation	In accordance with best practice
Drainage Design	1 in 10 year storm for underground network.
Speed Advisory Signs	To Australian Standards
Footpath	In accordance with Shire of Manjimup Bicycle and Footpath Plan
Street Lighting	In accordance with Policy 9.1.3

Road Inspections (including footpaths)	Day Inspection – Minimum 1 time every 3 years. Night Inspection - Nil
Road Re-sealing	2 coat seal - every 15 to 20 years Asphalt – every 25 to 30 years
Pot Holes	Pot holes exceeding 200mm in diameter, is to be repaired within 3 weeks (subject to weather and repairs to higher priority roads) of notification.
Vegetation Management	In accordance with Parks & Gardens
Drainage	Street sweeping: 4 times per year.
	Educt drainage gullies 1 time every 3 years.

	Attend (make safe and clear if possible) pipe blockages causing road flooding within 2 days of notification (subject to weather conditions and emergency response).
Kerb Maintenance	Repair damaged kerb if risk to vehicle or pedestrian or likely to affect drainage, within 3 months of notification or identification.
Footpath Sweeping	Removal of reported hazards within 2 weeks of notification.
Footpath Repairs	Repair identified hazards, within budget constraints within 3 months of identification. Allocation of budget to be in accordance with policy point 2.

Rural Local Road (Sealed) - SRL

New Construction (excluding new subdivision roads) LOS

Pavement Width	Minimum 8m
Seal Width	Minimum 6m
Seal Type	2 coat chip seal
Design Speed	50km/hr with desirable minimum
	curve speed 30km/hr
Vegetation Clearance (within	Clear of bushy vegetation within 3m
constraints of clearing regulations)	of shoulder.
Drainage Design	1 in 10 (in the case of new
	subdivisions, the requirements of
	Policy 9.4.1 shall prevail).
Guide Posts	To Australian Standards on curves
Speed Advisory Signs	To Australian Standards

Road Inspections	Day Inspection – Minimum 1 time
	every 2 years
	Night Inspection – Minimum 1 time
	every 2 years
Road Re-sealing	Every 15 to 20 years
Shoulder Grading	Prior to drop-off reaching 60mm
Pot Holes/Edge Break	Where pot hole exceeding 300mm in
	diameter appears in wheel paths, pot
	hole to be repaired within 3 weeks
	(subject to weather) of notification.
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Vegetation Management (within constraints of Native Clearing Regulations)	Where edge break exceeding 400mm appears on apex of curve, edge break to be repaired within 3 weeks (subject to weather) of notification. Verge spraying –once per year Removal – as per priority listing
Drainage	 Clear known problem areas at least 1 time per year. Inspect and clear all pipes and drains at least one time in each 3 years. Attend (make safe and clear if possible) pipe blockages causing road flooding on day of notification (subject to weather conditions and emergency response).
Trees Over Road	Attend (remove tree or provide alternative access and make safe) trees over road within 5 hours of notification and remove tree within 3 working days of notification.
Other Infrastructure (e.g. advisory signs, guide posts etc)	As per policy point 4 below.
Other Maintenance	Other maintenance, such as bitumen edging or shoulder re-sheeting, will be determined by staff based on a minimum whole of life cost approach, within budget constraints.

<u>Un - Sealed Road Design</u>

As per "Australian Road Research Board Unsealed Roads Manual – Guide to Best Practice"

Tourist Roads (Un-sealed) - GT1 (Priority 3) & GT2

Road Inspections	GT1: Day Inspection – Minimum 1 time every year GT1: Night Inspection – Minimum 1 time every 2 years GT2: Nil
Road Grading	GT1: Prior to School Holiday periods (providing the road contains

	corrugations or potholes). Otherwise when corrugations exceed 25mm in depth over more than 20% of the road (or where corrugations exceeding 25mm in depth exist on tight bends) or potholes exceed 30% of the driving path, where the potholes are over 450mm in diameter with depth exceeding 35mm. GT2: 1 time per year.
Vegetation Management (within constraints of Native Clearing Regulations)	GT1: Verge spraying – once per year GT2: maintained with grader.
Drainage	GT1: Clear known problem areas at least 1 time per year. GT1: Inspect and clear all pipes and drains at least one time in each 3 years. GT1: Attend (make safe and clear if possible) pipe blockages causing road flooding within 2 days of notification (subject to weather conditions and emergency response). GT2: Attend (make safe and clear if possible) pipe blockages causing road flooding within 5 days of notification (subject to weather conditions and emergency response).
Trees Over Road	GT1: Attend (remove tree or provide alternative access and make safe) trees over road within 24 hours of notification and remove tree within 5 working days of notification. GT2: Attend and remove tree over road within 5 days of notification.
Other Infrastructure (e.g. guide posts etc)	As per policy point 4. below, excluding speed advisory signs.
Re-sheeting	To be determined by staff based on a minimum whole of life cost approach, within budget constraints. To be determined by Shire's Road Asset Maintenance Management System RAMM based on a minimum whole of

life coast approach, within
budget constraints.

Local Distributor Roads (Un-sealed) GLD

Road Inspections	Day Inspection: Minimum 1 time
	every year
	Night Inspection – Minimum 1 time
	every 3 years
Road Grading	4 times per year and when
	corrugations exceed 25mm in depth
	over more than 20% of the road (or
	where corrugations exceeding 25mm
	in depth exist on tight bends) or
	potholes exceed 30% of the driving
	path, where the potholes are over
	450mm in diameter with depth
	exceeding 35mm.
Vegetation Management (within	Maintained with grader.
constraints of Native Clearing	3
Regulations)	
Drainage	Attend (make safe and clear if
	possible) pipe blockages causing
	road flooding within 2 days of
	notification (subject to weather
	conditions and emergency
	response).
Trees Over Road	Attend (remove tree or provide
	alternative access and make safe)
	trees over road within 24 hours of
	notification and remove tree within 5
	working days of notification.
Other Infrastructure (e.g. guide posts	As per policy point 4 below, excluding
etc)	speed advisory signs.
Re-sheeting	To be determined by staff based on a
Ţ ,	minimum whole of life cost approach,
	within budget constraints.
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	To be determined by Shire's
	Road Asset Maintenance
	Management System RAMM
	based on a minimum whole of
	life coast approach, within
	budget constraints.
	adget constraints.

School Bus Routes (Un-sealed) GSB Road Maintenance LOS

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Road Inspections	Day Inspection: Minimum 1 time
	every year
	Night Inspection: nil
Road Grading	4 times per year and when
	corrugations exceed 25mm in depth
	over more than 20% of the road (or
	where corrugations exceeding 25mm
	in depth exist on tight bends) or
	potholes exceed 30% of the driving
	path, where the potholes are over
	450mm in diameter with depth
	·
Venetation Management (within	exceeding 35mm.
Vegetation Management (within	Maintained with grader.
constraints of Native Clearing	
Regulations)	
Drainage	Attend (make safe and clear if
	possible) pipe blockages causing
	road flooding within 1 day of
	notification (subject to weather
	conditions and emergency
	response).
Trees Over Road	Attend (remove tree or provide
	alternative access and make safe)
	trees over road within 12 hours of
	notification and remove tree within 5
	working days of notification.
Other Infrastructure (e.g. guide posts	As per policy point 4. below,
etc)	excluding speed advisory signs.
Re-sheeting	To be determined by staff based on a
	minimum whole of life cost approach,
	within budget constraints.
	To be determined by Shire's
	Road Asset Maintenance
	Management System RAMM
	based on a minimum whole of
	life coast approach, within
	budget constraints.
	budget constraints.

Rural Local Roads (Un-sealed) GLR

Road Inspections	Nil
Road Grading	For the extent that the road provides a direct frontage to a property and the logical connection to the next road: minimum 2 times per year with additional grades up to a total of 4 times a year where corrugations or pot holes are considered excessive for the speed environment, or where adjacent roads are being graded and the road users would benefit if the road is graded.
	Where the road is a secondary access, provides no (or is a secondary) link to a property access or provides a link to a 4wd only area: only where resources allow (i.e. time and budget in that financial year) otherwise nil.
Vegetation Management (within constraints of Native Clearing Regulations)	Maintained with grader.
Drainage	Attend (make safe and clear if possible) pipe blockages causing road flooding within 5 days of notification (subject to weather conditions and emergency response).
Trees Over Road	For the extent that the road provides a direct frontage to a property and the logical connection to the next road: attend (remove tree or provide alternative access and make safe) trees over road within 12 hours of notification and remove tree within 5 working days of notification.
	Where the road is a secondary access, provides no (or is a secondary) link to a property access, or provides a link to a 4wd only area: within 4 weeks attend (remove tree or provide alternative access).
Other Infrastructure (e.g. guide posts etc)	As per policy point 4 below, excluding speed advisory signs.

Re-sheeting	To be determined by staff based on a minimum whole of life cost approach, within budget constraints. • To be determined by Shire's Road Asset Maintenance Management System RAMM based on a minimum whole of life coast approach, within

4. Other Infrastructure

The following infrastructure shall be installed at the time of construction or re-construction of a road. Where the infrastructure is required on roads where construction or re-construction is not taking place, installation shall be prioritised in accordance with policy point 2 above.

- Vegetation removal;
- Speed Zoning;
- Speed advisory signage (not to be installed on un-sealed roads);
- crash barrier (unless funded through Blackspot program); and
- guide posts.

<u>Administration</u>

Responsibility for implementing this policy is delegated to the Manager Technical Services for new construction works. Responsibility for implementing this policy is delegated to the Manager of Works for maintenance works.

Adoption and Date Due for Revision

ADOPTED 24 APRIL 2014 REVIEWED 13 FEBRUARY 2020

NEXT DUE FOR REVIEW JULY 2023

The Administration of this Policy is by the Work and Services directorate.

<u>Appendix 1</u> Primary Distributor (Sealed) – SPD

Level of Service	Road Name	From	То
SPD	South West Highway	Shire Boundary	South Coast Highway
SPD	Vasse Highway	Shire Boundary	South West Highway
SPD	Pemberton Northcliffe Road	Vasse Highway	Wheatley Coast Road
SPD	Muir Highway	South West Highway	Shire Boundary
SPD	South Coast Highway	South West Highway	Shire Boundary

District Distributor (Sealed) - SDD1 & SDD2

Level of Service	Road Name	From	То
SDD1	Windy Harbour Road	Zamia Street	Windy Harbour
SDD2	Middleton Road	Wheatley Coast Road	South West Highway
SDD2	Wheatly Coast Road	Zamia Street	South West Highway
SDD2	Channybearup Road	South West Highway	Vasse Highway
SDD2	Perup Road	South West Highway	Mordalup Road
SDD2	Mordalup Road	Perup Road	Shire Boundary
SDD2	Graphite Road	Finch Street	Shire Boundary

Rural Local Distributor (Sealed) - SRLD

Level of Service	Road Name	From	То
SRLD	Ralston Road	Graphite Road	Ringbark Road
SRLD	Yanmah Road	Ralston Road	Donnelly Road
SRLD	Donnelly Road	Yanmah Road	Sears Road
SRLD	Sears Road	Donnelly Road	Shire Boundary

SRLD	Palgarup Road West	Ralston Road	South West Highway
SRLD	Balbarup Road	South West Highway	Perup Road
SRLD	Seven Day Road	South West Highway	Palings Road
SRLD	Middlesex Road	South West Highway	South West Highway
SRLD	Stirling Road	Channybearup Road	Pump Hill Road
SRLD	Pump Hill Road	Stirling Road	Vasse Highway
SRLD	Ipsen Street	Lintott Street	Wildwood Road
SRLD	Pemberton North Road	Vasse Highway	Diamond Tree Road
SRLD	Diamond Tree Road	Pemberton North Road	Eastbrook Road
SRLD	Eastbourne Road	Diamond Tree Road	Vasse Highway
SRLD	North Walpole Road	South Coast Highway	End of Bitumen
SRLD	Richardson Road	Northcliffe- Pemberton Road	Holliwell Road
SRLD	Allen Road	North Walpole Road	End of Bitumen
SRLD	Bridge Road	North Walpole Road	Shire Boundary
SRLD	Karri Lane	Wheatly Coast Road	Cul-de-sac
SRLD	Wheatly Coast Road	South West Highway	Karri Lane
SRLD	Mullineaux Road	Golf Links Road	Big Brook Dam
SRLD	Golf Links Road	Vasse Highway	Mullineaux Road

Main Street Roads (Sealed) - SMS1, SMS2, SMS3 & SMS4

Level of Service	Road Name	From	То
SMS1	Giblett Street (M)	Pritchard Street	Rose Street
SMS1	Brockman Street (M)	Bath Street	Giblett Street
SMS1	Rose Street (M)	Ipsen Street	Mount Street
SMS1	Ipsen Street (M)	Bath Street	Giblett Street
SMS1	Mount Street (M)	Giblett Street	Bath Street

SMS1	Ralston Road (M)	Giblett Street	Highway
SMS2	Brockman Street (P)	Dean Street	Robinson
			Road
SMS3	Bath Street (M)	Ipsen Street	Mount Street
SMS3	Ellis Street (P)	Brockman Road	Kennedy
			Street
SMS3	Guppy Street (P)	Dean Street	Robinson
			Street
SMS3	Dean Street (P)	Brockman	Guppy Road
		Street	
SMS3	Robinson Street (P)	Brockman	Guppy Road
		Street	
SMS3	Nockald Street (W)	Inlet Street	Swan Street
SMS3	Wheatly Coast Road (N)	Richards Street	Boorara Road
SMS3	North Street (N)	Zamia Street	Rear of Pub
SMS3	Zamia Street (N)	Richardson	Wheatley
		Road	Coast Road
SMS3	Vista Street (W)	Nockolds Street	Pier Street
SMS3	Nockolds Street (W)	Inlet Street	Swan Street
SMS4	Wheatley Coast Road (Q)	Karri Lane to 300	m south

Urban Local Distributor (Sealed) – SUD

Level of Service	Road Name	From	То
SUD	Ipsen Street	Bath Street	Linton Street
SUD	Hospital Avenue	Mottram Street	Blackbutt Drive
SUD	Blechynden Street	South West Highway	Stokes Street
SUD	Somerville Street	Pritchard Street	Ipsen Street
SUD	Pritchard Street	Somerville Street	Mottram Street
SUD	Graphite Road	South West Highway	Finch Street

Industrial Roads (Sealed) - SI1 & SI2

SI1	Wetherell Street	South West Highway	Cul-de-sac
SI1	Franklin Street	South West Highway	Wetherell Street
SI1	Franklin Street	Wetherell Street	Muirs Highway
SI1	Margerson Street	Franklin Street	Wetherell Street
SI1	Gandy Street	Franklin Street	Crouch Street
SI1	Crouch Street	Franklin Street	Gandy Street

SI2	Miguel Place	Chugg Street	Cul-de-sac
SI2	Boorara Road	Windy Harbour	End of Seal
		Road	
SI2	Vista Street	South Coast	Walpole Street
		Highway	-
SI2	Chugg Street	South Coast	Miguel Place
		Highway	_

Urban Local Roads (Sealed) - SUL

SUL - All other urban roads

Rural Local Roads (Sealed) - SRL

SRL – All other sealed rural roads

Tourist Roads (Un-sealed) - GT1 & GT2

Level of Service	Road Name	From	То
GT1	Old Vasse Highway	Vasse Highway	Pemberton- Northcliffe Road
GT1	Kemp Road	Golf Links Road	Cul-de-sac
GT2	Broke Inlet Road	South West Highway	Broke Inlet
GT2	Seven Day Road	Waist Coat Road	Vasse Highway

Local Distributor (Un-sealed) - GLD

Level of Service	Road Name	From	То
GLD	Fernhill Road	Balbarrup Road	Perup Road
GLD	Grays Road	South Western Highway	Vasse Highway
GLD	Springdale Road	Muirs Highway	Balbarrup Road
GLD	Balbarrup Road	Muirs Highway	Perup Road
GLD	Boorara Road	End of Seal	Preston Road
GLD	Muirillup Road	End of Seal	Rudd Road
GLD	Datchet Road	Wheatley Coast Road	Pemberton Northcliffe Road
GLD	Ralston Road	End of Seal	Mitchelldean Road
GLD	Mitchelldean Road	Ralston Road	Sears Road

GLD	Gardiner Road	North Walpole Road	End
GLD	Smiths Road	Channybearup Road	Pemberton North Road
GLD	Double Bridges Road	Windy Harbour Road	Gabbedy Road
GLD	Tattenham Road	Richardson Road	Guernsey Gully Road
GLD	Southfield Road	Mordalup Road	Wingebellup Road
GLD	Smithbrook Road	Middlesex Road	Peppermint Grove Road
GLD	Dixvale Road	Yanmah Road	Graphite Road
GLD	Gibillenis Road	Linfarne Road	Tower Road
GLD	Springall Road	West Boundary Road	Dean Mill
GLD	Hillbrook Road	Wheatley Coast Road	Wheatley Coast Road
GLD	Deeside Coast Road	Middleton Road	Preston Road (Great Tree Drive)

School Bus Route (Un-sealed) - GSB

GSB - Extent of School Bus Routes

Rural Local Roads (Un-sealed) - GLR

GLR – All other un-sealed rural roads

Laneways & Right of Ways - LWY/ROW

Level of Service	Road Name	From	То
LWY/ROW	Guadagnino Lane	Mount St	Ipsen St
LWY/ROW	LOT 66	Lintott St	Limmer St

Unallocated/Vacant Crown Land - UCL & VCL

Level of Service	Road Name	From	То	
UCL/VCL	Loverock Road	Windy Harbour Road	Beebe/Preston Road	
UCL/VCL	Waistcoat Road	Section outside s	Section outside state forest	

Level of Service	Road Name	From	То
OTHER	Wetherell Road	South Western Highway	Lot 10878
OTHER	Langley Road	South Western Highway	Wheatley Coast Road