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# Road Inspection Guidance Manual







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#### 1.0 Introduction

The *Mildura Rural City Municipal Road Management Plan (RMP)* is the statutory plan under the Road Management Act 2004 that sets out the maintenance regime for management of the municipal road network for the Rural City of Mildura. It establishes the management system for Council to inspect, maintain and repair its public roads based on policy and operational objectives having regard to available resources.

The *Road Asset Management Plan (R-AMP)* covers the road network asset group that includes road pavements, footpaths, kerb & channel, bridges, laneways and car parks. It sets out how the road asset group will be managed in by Mildura Rural City Council and includes life-cycle costing forecasts into the future. The R-AMP complements the RMP by providing the background information for it. These two Plans are key elements of Council's strategic road management planning.

The RMP also sets the relevant standard in relation to discharge of duties in the performance of those road maintenance management functions.

The key elements of the Road Management Plan include:

Register of Public Roads for which Council is responsible;

Asset Management System that Council uses to manage maintenance and renewals of its public road network;

Road Inspection Guidance Manual (this document) that details maintenance standards and practices used by Council.

### 2.0 Inspection Regime

For footpaths, the maintenance assessment is determined by size of tripping hazards, slipperiness, unevenness and the location of the defect in terms of its asset hierarchy classification. Hierarchy itself will be determined by function, types of users and user numbers.

For roads, the risk assessment is determined by the size of various modes of failure and hierarchy classification of the location.

To facilitate this, the field inspection recording process will involve the use of GPS enabled Notebook Computers running Amis PRO software which utilise the risk assessment process to determine level of a defect's safety risk as it recorded.

Once the data has been recorded at the end of each week's round of inspections, the priority works are reviewed, remedial works program developed and incorporated into the weekly maintenance program via "Works Orders" to relevant works team.

Any major works identified are listed for inclusion on future capital works programs.

Any urgent maintenance works are detailed on a "Works Order" to make temporary repairs and/or erect warning signs and/or barricading on the same day and then referred to works crews for action on the following and subsequent workdays

## 3.0 System Procedure and Security

#### 3.1

The Asset Inspection Team of the MRCC is to carry out the Inspection Service for Council Assets under its control. The service will adhere and conduct inspections in accordance with The Municipal Road Management Plan.

#### 3.2

Each member of staff required to carry out inspections and/or to administer the inspection system and the issuing and managing of work, must be defined within the 'AMIS PRO' system. Security shall be maintained by allocating each Inspector/Team Leader/Manager, a Username login based upon their initials, together with an appropriate and unique password.

The combination of name and log-in details is also used to determine which Inspector carried out an inspection and how the results were entered into the system, either manually or electronically.

### 4.0 Inspection Arrangements

#### 4.1

Where a location/section/inspection type requires two members of staff, then the responsibility for the inspection is to be taken by one person defined as 'The Inspector' and the second acting as the Assistant or '2nd Inspector'. On occasions where only one person is involved, then that person shall be deemed 'The Inspector'.

#### 4.2

Any inspections carried out by observations from a car may require two members of staff, with the passenger/observer defined as 'The Inspector' and the driver as the Assistant. Inspections carried out on foot may generally only require one person, designated as 'The Inspector'. However, any road section where there is a combination of car travel and walking and/or where there are walked inspections with footpaths on either side of the carriageway, an 'Assistant' may be required.

#### 4.3

The footpath inspections may be carried out on Foot or via "Gopher" motorised cart.

#### 4.4

Rural shared pathways adjacent to roadways may: -

a) Be inspected at the same time as the adjacent roadway inspection (Thus sometimes receiving an increased frequency of inspection)

#### And;

b) Have the same safety defect standards as those defined for the unsealed or crusherdust footways.

#### 4.5

Unsealed or crusherdust bike paths inspections are carried out from a car during the same inspection as the adjacent carriageway, by foot, gopher or bicycle pending location. During inspections, there shall inevitably be occasions when parked vehicles obstruct the view of the footway. If, in the opinion of the Inspector, the hidden footway is prone to damage or has other relevant importance ie. elderly persons' home, a school etc. in close proximity, then the inspection of that area of footway shall be undertaken on foot.



#### 4.6

Night inspections are to be carried out in accordance to the inspection roster and are to be recorded as a "Night Inspection".

#### 4.7

All inspections (Day or Night) are to be carried out at a speed so as to be able to see all defects or hazards.

#### 4.8

Public Inquiry's are to be actioned by the appropriate Team Leader within 48 hours of the inquiry being reported.

### 5.0 Required Actions

#### 5.1

When a defect or condition is recorded, it is categorised according to the urgency with which repair works shall be carried out. The action to be taken is categorised as follows: -

#### a) Category 1 (Safety)

This category is reserved for defects that are likely to represent imminent danger to road users. Defects recorded as a Category 1 require some form of action to be taken within 48 hours; either permanent and/or temporary. This could include the erection of warning signs for example. If a Temporary action is recorded, there must also be a Permanent action to accompany it. Defect Intervention Levels are as stated in Maintenance Service Level Agreement;

#### b) Category 2 (Routine Maintenance)

This category is used for less urgent repairs. Defects recorded as a Category 2 are to be recorded as Normal Routine Maintenance (Normal) Inspection. It is intended primarily for use when creating a planned routine maintenance program of work over a greater period of time. Defect Intervention Levels are as stated in Maintenance Service Level Agreement;

#### 5.2

Having categorised the defectiveness, a course of action shall be proposed by the Inspector. Three possible courses are available although, in practice, a combination of options could be used: -

#### i) Immediate Action

Only used for 'Category 1' Safety defects/hazards.

It is an action taken which takes place at the time of the inspection and may not necessarily be a repair. For example, the marking of a defect;

#### ii) Temporary Action

This is also only used for 'Category 1' Safety defects/hazards. It is an action that can be used to temporarily make safe a defect or warn users of a potential hazard i.e. the erection of suitable signing. Once recorded, the inspection software notes the date and time and the Management System shall allocate a repair time of 48 hours. NB - a Temporary action must always have a Permanent action to accompany it;

#### iii) Permanent Action

This is used to make a full repair ie. a 'permanent' repair. It is available for use with either '1' or '2' categories. The 'repair due for completion' period shall be dependent upon whether a

Temporary action has also been recorded against a defect. If it has, then the completion timescale shall be as stated in the 'Service Level Agreement'.

5.3

On finding 'Category 1' and '2' defect conditions, the Inspector shall mark them if they relate to the surface of the carriageway or footway. Paint must be used for marking, unless the area concerned is of special quality paving, and in these circumstances, crayon or similar is to be used.

5.4

All 'Category 1' defects shall be notified to the relevant Team Leader as soon as is practicable. This notification is recorded as an 'Immediate' action. Extremely hazardous defects e.g. a missing manhole cover, shall not be left by the Inspector who must notify the relevant Team Leader and either wait until emergency help arrives, or where appropriate, sign and barricade the defect to make safe.

5.5

Any request for IMS Staff to attend Road Traffic Incidents, either within during Normal Routine Maintenance Inspections or Out Of Hours, all details of the incident shall be recorded in the inspection software (Amis PRO).

5.6

In certain circumstances, it is unlikely or impracticable for a Safety hazard to be permanently repaired within 48 hours of it being found. In such cases a 'Temporary' action is to be recorded to temporarily make safe the defect (EM- Emergency Callout). This is to be followed, where appropriate, by a 'Permanent' action. This approach permits a full repair of the defect to be deferred for up to the maximum intervention time as stated in the 'Service Level Agreement'.

5.7

When carrying out an inspection(s), the Inspector / Team Leader shall highlight and advise of matters which, while not requiring attention under Routine maintenance works, will nevertheless need some form of additional investigation eg. a structural visual inspection. Matters of this type shall be recorded under the appropriate activity and be forwarded to the Manager Works and Infrastructure Services for review, giving as much additional information as possible.

### 6.0 Inspectorate

6 1

Inspectors shall be suitably experienced and competent to carry out the tasks of roadway and footpath inspections as described in this manual. They shall have a good working knowledge of relevant inspection procedures; safety requirements; highway materials and construction, together with knowledge for the use of appropriate inspection equipment and software.

They shall also be conversant with the-

- Australian Standard 1742 Part 3 2009 Traffic Control Devices for Works on Roads
- VicRoads OPS NOTE 005.92 Document: Permitted Variation 91/2 to AS1742.3. section 4 Multi Message Signs
- Occupational Health & Safety Act 2004
- First Aid Level 2
- Traffic Management Certificate

#### 6.2

Inspectors shall carry out inspections in a uniform manner and to a uniform standard across the municipality. This is particularly important when deciding on a suitable category and treatment of repair for the defect or observation. If the parties responsible for the issue and/or repair of the works consider that the selection of



any item or treatment code is incorrect, then full details of the correct information shall be passed to the Inspecting teams for future reference eg: signage changes.

## 7.0 Defect & Condition Definitions and Treatments

#### 7.1

An Inspector shall provide a good description of the location for every item recorded, in such detail so as to ensure all other parties involved can locate its position. Due to the limited size of the 'Location Description' field, any abbreviations used must be readily understood.

- 7.2
- Treatments identified shall be those as specified in the Municipal Road Management Plan'.
- 7.3

Ad-hoc patching in small quantities (Category 2's) shall have Defect Code, EG: RM02-Pothole <300mm recorded for minor carriageway repairs and code F07-Footpath depression for minor footway repairs.

- 7.4
- Every effort is to be made to assign the appropriate treatments to the recorded defects and conditions.
- 7.5

If Safety defects (Category 1's) are found the day before any weekend or Public holiday, an emergency code (EM-immediate action) should be recorded. The inspector shall notify the relevant Team Leader to ensure that the defect is made safe/repaired and not left until after the holiday period (as per item 5.4).

## 8.0 Inspection Data

8.1

All Roadway and Footpath inspection data files shall be validated to ensure that links/sections and describing codes ('Activities/Defects/Treatments') are correct before being transmitted to the designated network server. The files shall be synchronised into the AMIS PRO database on a daily basis.

8.2

From the inspection data filename, it should be possible to ascertain the identity of the Inspector, date and type of inspection and the Area inspected.

8.3

Normal Routine Maintenance (NRM) inspection data files shall be sent to the designated network server before 10.00 a.m. for each working day following the inspection (where practicable). From this location, the files are loaded into AMIS. Any un-scheduled inspection files (eg. 'Team Leader's Random Inspections') received on a daily basis shall also be treated and loaded in the same way.

8.4

Data files for all inspection types are the responsibility of the organisation carrying out the inspection and shall be suitably stored, unaltered for a period of six years and, if required, made available for authorised use as and when required.

## 9.0 Site Risk Analysis

Attention to the safe and efficient movement of traffic around or through a work site will enhance employee safety. It should be noted that failure to correctly apply the principals of Traffic Management could result in death or serious injury to **YOU**, the employee, and/or other staff and road users.

In addition to recording a defect, the inspector shall also identify the Site Risk Rating by including the following information:

- The traffic volume or Road Classification at the location of the Defect
- The distance between the works and passing traffic
- The posted speed limit of the site.

The Site Risk Rating can then be established from the matrix shown below.

The inspector may nominate a generic traffic management plan from the MRCC Work Site Traffic Management booklet to assist the planning of the works.

#### SITE RISK RATING FOR SHORT / LONG TERM WORKS

MDCC Hierarchy Cotogony		Clearance be	etween Traffic	and Workers	
MRCC Hierarchy Category	<1.2m	1.2m -3.0m	3.0m - 6.0m	6.0m - 9.0m	> 9.0m
40 km/h					
MRCC Local – Unmade & Unsealed	L	L	L	L	L
MRCC Local – Sealed	L	L	L	L	L
MRCC Collector – Sealed & Unsealed	L	L	L	L	L
MRCC Link Road – Sealed	Н	L	L	L	L
50 km/h					
MRCC Local – Unmade & Unsealed	L	L	L	L	L
MRCC Local – Sealed	L	L	L	L	L
MRCC Collector – Sealed & Unsealed	Н	L	L	L	L
MRCC Link Road – Sealed	Н	L	L	L	L
60 km/h or 70 km/h					
MRCC Local – Unmade & Unsealed	Н	L	L	L	L
MRCC Local – Sealed	Н	L	L	L	L
MRCC Collector – Sealed & Unsealed	Н	L	L	L	L
MRCC Link Road – Sealed	Н	Н	L	L	L
Vic Roads Arterial Road	Н	Н	Н	L	L
80 km/h or 90 km/h					
MRCC Local – Unmade & Unsealed	Н	Н	Н	L	L
MRCC Local – Sealed	H	Н	Н	L	L
MRCC Collector – Sealed & Unsealed	Н	Н	Н	L	L
MRCC Link Road – Sealed	Н	Н	Н	Н	L
Vic Roads Arterial Road	Н	Н	Н	Н	L
100 km/h or 110 km/h					
MRCC Local – Unmade & Unsealed	Н	Н	Н	Н	L
MRCC Low Worksite Hazard Rating	H	H	Н	H	L
MRCC Collector – Sealed & Unsealed	Н	Н	Н	Н	L
MRCC Link Road – Sealed	Н	Н	Н	Н	L
Vic Roads Arterial Road	Н	Н	Н	Н	L
Low Worksite Hazard Rating					
H High Worksite Hazard Rating	1				
J					

#### Notes:

For very short-term works, a lookout person may be required Local Road Sealed & Unsealed- (Single Multi Message Only) Collector Road Unsealed - ((Single Multi Message Only) Sealed Collector & Link Roads - (Double Multi Message Signage required) VicRoads Arterial Road (Double Multi Message Signage required)



## 10.0 General Guidance for 'Category 1' Safety Defects

The following types of defects shall be reported if observed: -

#### **CARRIAGEWAY DEFECTS**

- Potholes, stripping and other defects in the traffic lane of a sealed pavement greater than 100 mm deep and greater than 300mm in diameter or in the traffic lane of an unsealed pavement greater than 150mm deep and 500mm diameter;
- Deformations greater than 100mm under a 3m straight edge;
- Local Edge Deterioration where the difference in level is 100mm or greater over a 20m length;
- Collapsed manholes, missing covers, grates and broken side entry pit lids where there is a danger to the passing traffic or pedestrians;
- Regulation of wheel ruts and depressions where the difference in level is >100mm deep measured with a 1.2m straightedge;
- Where standing water covers more than half the carriageway;
- Mud, debris and any slippery fluid/substance of significant amounts on the carriageway which create a danger;
- Fallen trees or other wind blown debris creating a dangerous obstruction;
- Unmanned collapsed or inadequately guarded excavations which are a danger to the highway user (vehicles, cyclists and/or pedestrians);

#### FOOTWAY AND KERBING DEFECTS

- Cracked, broken or uneven paving slabs or other defects which result in a trip hazard of 50mm or greater;
- Potholes greater than 50mm;
- Reinstatement's and unfilled gaps between footpath slabs 50mm or greater;
- Mis-aligned, broken or missing kerbs causing a trip hazard of 50mm or greater;
- Overgrown and overhanging vegetation or an obstruction causing users to deviate into the carriageway;
- Fallen trees and wind blown debris creating a dangerous obstruction/slippery surface;
- Standing water more than 10mm deep which restricts the footway width to less than 0.5m or is likely to cause pedestrians to use the adjacent carriageway.

#### MISCELLANEOUS DEFECTS

- Signs which have fallen into the roadway or are in an unsafe condition;
- Dirty, obscured or missing regulatory and hazard signs;
- Road markings worn by 75% or more at junctions;
- Damage to highway structures (bridges, culverts, retaining walls) and other furniture (safety fences, bus shelters, pedestrian guardrail, bollards) which results in either an obstruction of the highway or a danger to the public (eq. missing parapets, damaged projecting parts etc);
- Missing RPM's and road side delineators at a critical location on Sealed Link and Collector Roads;
- Visibility (sight vision) obstructed due to overgrown vegetation:

In addition, the following items shall be reported if observed and considered a safety hazard: -

- Completely or nearly (75% or greater) blocked pits, pipes and obstructed channels and "V" drains;
- Drift Sand encroaching on roadway;

## 11.0 General Guidance for 'Category 2' (General Maintenance) Conditions

#### 111

Condition items recorded under this category are to be used for the purposes of Routine Maintenance rather than to establish the overall structural condition.

#### 11.2

The following areas of 'Category 2' conditions shall be reported where observed: -

#### CARRIAGEWAY

- Potholes, stripping and other defects in the traffic lane of a sealed pavement less than 100 mm deep and 300mm in diameter or in the traffic lane of an unsealed pavement less than 150mm deep and 500mm diameter;
- Deformations greater than 40mm and less than 100mm under a 3m straight edge;
- Localised Edge Deterioration where the differences in level are greater than 50mm but less than 100mm over a 20m length;
- Regulation of wheel ruts and depressions where the difference in level is >25mm and <100mm deep measured with a 1.2m straightedge;
- Major cracking (patch before potholes form);
- Slurry or mud other than that stated as a safety issue;

#### FOOTWAY AND KERBING

- Cracked, broken or uneven paving slabs or other defects which result in a trip hazard of >10mm and
   <50mm</li>
- Potholes greater than 10mm and less than 50mm;
- Reinstatement's and unfilled gaps between footpath slabs >10 and <50mm</li>
- Mis-aligned, broken or missing kerbs causing a trip hazard of >20mm and <50mm</li>
- Extensive local cracking affecting the major part of the surface;
- Loss of material (fretting) from an existing area of patching;
- Rocking footpath slabs;
- Kerb/channel vertical projection greater than 50mm;
- Overgrown vegetation causing severe damage to paved surface:
- Overhanging vegetation causing pedestrians to divert from their path;

#### MISCELLANEOUS ITEMS

- Dirty, obscured or missing traffic signs other than the types identified for Safety defects;
- Poor/non-existent reflectivity of mandatory and directional signs;
- Damage to sign post;
- Blocked pits & pipes of between 50% and 75%, blocked and obstructed channels and "V" drains;
- Cracked/broken covers in heavily trafficked areas that are deemed safe;
- Visibility restricted due to overgrown vegetation;
- Dead/dying branch report for specialist tree inspection:
- Missing RPM's and road side delineators on Sealed Link and Collector Roads;
- Offensive Graffiti;
- Road markings worn by 75% or more.



## **APPENDICES**

## **Appendix '1' – Maintenance Intervention Levels**

Routine Maintenance Criteria  Defect Description	Hierarchy	Category	Maintenance Criteria	Response Time
SEALED PAVEMENT	Interacting	Calegory	Maintenance Criteria	nesponse rillie
SEALED PAVEINEN I	l Links 0	1 1		40 Hours
	Link & Collector	2		48 Hours 180 Days
	Collector			
POTHOLE PATCHING	Local	1	1: Potholes in sealed pavement >300mm in diameter and	48 Hours
Treatment of isolated failed pavement		1	>100mm deep	180 Days
areas <0.25 m <sup>2</sup>	Laneways	2	2: Repair all potholes	48 Hours
		1		365 Days
	Car Parks			48 Hours
	11.1.0	1		365 Days
	Link & Collector			14 Days 180 Days
	Collector	2	1: All ruts or depressions >100mm depth measured with 1.2 m	
REGULATION OF WHEEL RUTS	Local	1	straightedge transverse, or under a 3 m straightedge longitudinal	14 Days
AND DEPRESSIONS		2	2: All ruts or depressions >40 mm and <100mm depth measured	180 Days
Depressed or rutted areas of pavement <5 m².	Laneways	1	with 1.2 m straightedge transverse, or under a 3 m straightedge	14 Days
No III .		2	longitudinal	365 Days
	Car Parks	2		14 Days
	Link &			365 Days
CDACK SEALING	Collector			365 Days
CRACK SEALING Filling of cracks and joints, excluding	Local	All	Any Longitudinal cracking >2m in length and >=5mm in width	365 Days
"crocodile" cracking.	Laneways	1 ''''	Any Transverse cracking >2m in length and >=5mm in width	365 Days
3,	Car Parks			365 Days
SURFACE TREATMENT	Link & Collector		(a) stripping (>50% loss of aggregate for an area >5 m²)	365 Days
Areas of pavement <25 m <sup>2</sup> with: a) Loss of aggregate	Local		(b) bleeding/flushing for an area >50 m <sup>2</sup>	365 Days
(b) Bleeding or flushing	Laneways		( )	365 Days
(c) Extensive or "crocodile" cracking	Car Parks		(c) all "crocodile" cracking	365 Days
	Link &	1		48 Hours
	Collector	2	d. Miles of fellow delays a linear and a least a second distance of	180 Days
PAVEMENT CLEANING	Local	1	1: When fallen debris, slippery substances, accumulation of granular material, ponding of water or any other obstacle becomes a danger to traffic or pedestrians	48 Hours
Cleaning of pavement including	Locai	2		180 Days
intersections, kerbs and channels to remove debris which is a danger to traffic or pedestrians or prevents	Laneways	1	2: When accumulation of aggregate, dirt or debris prevents the	48 Hours
the free drainage of the pavement.	Laneways	2	free drainage of the pavement	365 Days
	Car Parks	1		48 Hours
		2		365 Days
	Link &	1		48 Hours
	Collector	2	1: When edge break exceeds 150mm laterally over at least a	180 Days
EDGE DEDAID	Local	1	1: When edge break exceeds 150mm laterally over at least a 1 m length from the nominal seal line	48 Hours
EDGE REPAIR	20041	2		180 Days
Repair of broken edges of seal to line and level to maintain nominal sealed width.	Laneways	1	2: When edge break > 75mm and < 150mm laterally over at least a 1 m length from the nominal seal line	48 Hours
		2	a i miongui nom uie nomina seal ille	365 Days
	Car Parks	1		48 Hours
		2		365 Days
	Link & Collector			180 Days
DEFORMATION	Local	4		180 Days
Treatment of isolated failed pavement areas between 0.25 m² and 30 m² in area and segment deformation >40mm	Laneways	All	All failed areas	365 Days
Segment delormation >40mm	Car Parks			365 Days



INSEALED PAVEMENT	Link &	1	1: Drop off /Build-up >100mm depth measured over a 20 m	48 Hours
JNSEALED SHOULDER (a) drop off from edge of seal to	Collector	2	length.	180 Days
shoulder;		1	2: Drop off >50mm and <100mm depth measured over a 20 m length.	48 Hours
<ul><li>(b) roughness, scouring or potholes;</li><li>(c) holding of water.</li></ul>	Local	2	2:Potholes, scouring or roughness >75 mm depth measured with a 1.2 m straightedge, or when there is holding of water	365 Days
	Link &	1		48 Hours
NSEALED ROAD	Collector	2	1: Pothole In the traffic lane >500mm diameter and >150mm deep	180 Days
Spot gravelling, pothole repair, grading	Local	1	2: Potholes, scouring or roughness >50 mm in depth and <150mm in depth measured with1.2 m straightedge	48 Hours
reshaping.		<u>2</u> 1	2: Continuous corrugations over 20 m exceeding 40 mm in depth	365 Days 48 Hours
	Car Parks	2	-	365 Days
PRAINAGE				
URFACE DRAINS AND VERGES Cleaning and reshaping to maintain flow	Link & Collector	All	When there is, or is likely to be, ponding of water or scouring	180 Days
water and protect road and roadside from scour	Local		g	
LIBELIDEACE DRAING	Link &			
SUBSURFACE DRAINS Cleaning of outlets and pits to maintain	Collector	All	When debris inhibits free flow	180 Days
w of water	Local Car Parks			,-
ULVERT AND PIT CLEANING AND	Link & Collector			
TORM WATER DRAINS Cleaning of culverts, pits and stormwater	Local	All	When debris inhibits free flow	180 Days
ains to maintain flow of water	Car Parks			
	Link &	1		48 Hours
ULVERT AND PIT REPAIR	Collector	2	1:Damaged or missing drainage pit lids, surrounds, grates, in	180 Days
Repair or replacement of damaged lverts, pits, surrounds, grates, lids or lintels and	Local	2	pedestrian areas or traffic lanes	48 Hours 180 Days
adwalls		1	2:When culvert or pit becomes non-functional	48 Hours
	Car Parks	2	<u> </u>	365 Days
	Link & Collector			180 Days
KERB AND CHANNEL Cleaning to maintain flow of water	Local All Laneways	When debris inhibits free flow	365 Days	
			365 Days	
DRAINAGE BASINS	Car Parks			365 Days
Minor repairs of scouring on batters, lashing, mowing and weed control. Maintenance of all depth markers and warning signs.	All	All	Any scour depth >300mm Maintain vegetation height to max. 300mm Replace damaged or vandalised signs	180 Days
GROSS POLUTANT TRAPS  This activity covers the routine respection and cleaning of GPT's and litter baskets	All	All	When debris inhibits free flow	180 Days
o ensure the GPT continues to operate as designed VEGETATION				
GRASS MOWING SEALED	Link & Collector		To maintain sight distance of 30 m in advance of all road approaches and departures.  3 m behind the line of guideposts (If Allowable).  Where there are no guideposts mowing shall be to a width of 5m from the edge of pavement, if practicable.	180 Days
Mowing of roadside areas, maintain ight distance, reduce fire hazard and maintain a idy appearance	Local	All		365 Days
			Maintain grass length to a maximum 300 mm.	
GRASS MOWING UNSEALED  Mowing of roadside areas, maintain ight distance, reduce fire hazard and maintain a	Link & Collector	All	To maintain sight distance of 30 m in advance of all road approaches and departures. 3 m behind the line of guideposts (If Allowable). Where there are no guideposts mowing shall be to a width of	180 Days
dy appearance	Local		5m from the edge of pavement, if practicable.  Maintain grass length to a maximum 300 mm.	365 Days
EDGE TRIMMING	Link &			180 Days
Trimming of grass clear of kerbs or seal or maintain drainage and appearance	Collector Local	All	All growth 100 mm forward of back of kerb or seal.	365 Days
GRASS AND WEED CONTROL Control of vegetation growth, including	Link & Collector	All	Grass and weeds that restrict intersection sight distance or obscure safety signs.	180 Days
round road furniture, on paving over kerb and channel, on traffic islands and on the road	Local	All	Maintain grass length to a maximum 300 mm	365 Days
TREE AND SHRUB  MANAGEMENT	Link & Collector	1	Tree limbs or trees that are in immediate danger of falling and causing a danger to the public	48 Hours

Maintenance of roadside areas,		2	1: Trees and shrubs which restrict intersection sight distance or	180 Days
including brush cutting, foliage trimming and removal of vegetation.	Land	1	obscure safety signs, or intrude into clearance envelope over trafficable areas of roads and paths	48 Hours
	Local	2	2: Cut and remove new tree and shrub growth within drains,	365 Days
		1	clear zones, the shoulder and verge. 2: Trim trees to maintain:	48 Hours
	Car Parks	2	Minimum 1 metre from back edge of shoulder and/or kerb; Minimum 4.9 metre height clearance over shoulders and pavements. Minimum 2.4 metre height clearance over footpaths	365 Days
ROAD FURNITURE				
	Link &	1	1: Any sign or support damage which is a hazard to the public.	48 Hours
SIGN REPAIR	Collector	2	Regulatory and Warning signs missing or damaged at a critical location	180 Days
Repair, re-erection and cleaning of signs,	Local	1	2: Straighten signposts when more than 5 degrees off vertical, or	48 Hours
including supports.		2	replace when damage renders ineffective.  2: Clean sign and delineator faces when reflectivity is reduced	180 Days
	Car Parks	1	due to accumulation of dirt.	48 Hours
	our uno	2		365 Days
GUARD FENCE AND WIRE ROPE	Link &	1		30 Days
SAFETY BARRIER If defined as MRCC responsibility.	Collector	2	Missing or damaged at a critical location making them substantially ineffective	180 Days
Realignment, repair or replacement of isolated guard	11	1	2: Defective guardrail, posts and hardware	30 Days
fence < = 15 m/section, including terminal sections, posts, rails and cleaning of delineators.	Local	2	2. Delective guardrait, posts and mardware	365 Days
	Link &	1		30 Days
GUIDEPOSTS AND DELINEATORS	Collector	2	Guideposts missing or damaged at a critical location     Support of the control of the cont	180 Days
Cleaning, painting and/or replacement		1	1: Not visible from 150 metres at night, on low beam 2: Missing, bent or damaged guidepost, marker post or delineator	30 Days
of damaged and missing guideposts, marker posts and delineators. Straightening or replacement of crooked or bent guideposts	Local	2		365 Days
FOOTPATHS				
SEALED / OTHER PAVED AREAS  Replacement, repair or regulation of defective paved areas <2 m².		1	1: Defective pedestrian areas on islands, footpaths and bicycle/shared paths with a step >50mm  1: Reinstatement's and unfilled gaps between footpath slabs 50mm or greater  2: Defective pedestrian areas on islands, footpaths and bicycle/shared paths with a step >10mm and <50mm  2: Reinstatement's and unfilled gaps between footpath slabs >10mm and <50mm  1: Pothole >150mm in depth  2: Pothole >50mm & <150mm in depth and >300mm in diameter  1: Washout/Scouring >150mm in depth  2: Washout/Scouring >50mm & <150mm in depth and >300mm	180 Days
	All	2		365 Days
UNSEALED PATHS		1		48 Hours
		2	in width	365 Days
KERB AND CHANNEL	Link & Collector		>50mm step or misalignment	180 Days
Maintenance of all concrete kerb and	Local	All		365 Days
channel adjacent to the carriageway	Car Parks		Depression >100mm over 1200mm length	365 Days
<b>EMERGENCY</b>				
EMERGENCY CALLOUT  Repair of any defects presenting a hazard to the public.	All	All	Any defect presenting a hazard to the public.	3 Hours



## Appendix '2' – Activity, Defect, System and Bill of Quantity Codes

Maintenance Activity	Defect Code & Description	Treatment Code & Description	Bill Of Quantity Item	Unit
EM- Emergency	E01-Flood	EM01-Emergency callout, response & repair	Crew response (normal hours)	HOURS
Callout	E02-Fires		Crew response (out of hours)	HOURS
	E03-Loose surface	1	Oil absorbent	BAG
	E04-Traffic accident	1	Single response (normal hours)	HOURS
	E05-Oil spill	7	Single response (out of hours)	HOURS
	E06-Rain storm	7	Temp repair	ITEM
	E07-Wind storm	1	Temp signs	ITEM
	E08-Dust storm	1	VicRoads request	ITEM
	E09-Grape spill	1		
	E10-Water over road			
	E11-Other			
	E12-VicRoads Request			

SL-Roa	adside	S01-Roadside slashing	SL01-Roadside slashing	Slashing of council land	HOURS
Slashin	ng	S03-Slashing of council land	SL04-Temporary repair	Roadside slashing	LIN.M

BS-Bitumen	B01-Bitumen services	BS01-Reseal	10mm stone	SQ.M
ervices		BS02-Primer Seal	14mm stone	SQ.M
	<del></del>	BS03-Prime	5mm stone	SQ.M
		BS04-Pin down	7mm stone	SQ.M
		BS05-After care signage	Erect aftercare sign	ITEM
		BS06-Repair of loose surface	Post Sweeping	SQ.M
			Pre sweeping	SQ.M
			Prime	SQ.M
			Removal aftercare sign	ITEM
				•
MG-Maintenance	G01-Failure "blow out" subgrade >25sqm	MG01-Maintenance grading	MG - Grading of unsealed roads	LIN.M
irading	G02-Pothole in carriageway	MG04-No action	MG - Resheeting specific	LIN.M
l.	G03-Wash out erosion >75mm	MG05-Grading – shoulders	MG - Maintenance gravel patching	LIN.M
	G04-Corrugation to surface	MG06-Raise Pavement	MG - Grading of Shoulders	LIN.M
	G05-Drop-off >100mm and <300m	MG07-Cut Spoon Drain	MG - Reconstruction gravel shoulders	LIN.M
	G06-Drop-off >100mm and >300m	MG08-Cut V Drain	MG - Grading of unsealed bike paths	LIN.M
	G07-Scouring on batters >5m long		MG - Sweeping of carriageway	LIN.M
	G08-Pothole on shoulders		MG - Sweeping of intersection	SQ.M
	G09-Property access		MG - Corrugation > 80mm	LIN.M
	G10-Sand drift		MG - Pothole > 80mm	SQ.M
	G11-Unsealed bike track		MG - Skid steer truck crew	HOURS
	G12-Grass/Buildup > 100mm		MG - Grading of Unsealed Roads 2	LIN.M
	G13-Scouring on shoulders > 5 meters		MG - Grading of Unsealed Roads 3	LIN.M
	G14-Water over road		MG - Grading of Unsealed Roads 4	LIN.M
		<u> </u>	MG - Grading of Unsealed Roads 5	LIN.M
			MG - Grading of Unsealed Roads 6	LIN.M
			MG - Grading of Unsealed Roads 7	LIN.M
			MG - Skidsteer	HOURS

Maintenance Activity	Defect Code & Description	Treatment Code & Description	Bill Of Quantity Item	Unit
OR-Drainage	D01-Blocked drain council property	DR01-Pit clearing / cleaning	DR - GPT cleaning	ITEM
ห-Drainage	D02-Stepping in jointing, scour	DR23-Drainage cleaning	DR - Construct junction pit	ITEM
	D03-GPT - Blocked	DR04-Minor repair - lined drains	DR - Gatic lid	ITEM
	D07-Damaged pits	DR06-GPT - cleaning	DR - Top of pit h/d gatic lid	ITEM
	D08-Damaged surrounds	DR10-Pits - Repair	DR - Const side entry pit	ITEM
	D09-Damaged grates	DR12-Surrounds - Repair	DR - Replace grate	ITEM
	D10-Damaged lids	DR14-Grates - Repair	DR - Side entry pit lid	ITEM
	D11-Damaged lintels	DR16-Lids - Repair	DR - Mtce to pipe, pits& rising mains	HOURS
	D12-Missing grates	DR18-Lintels - Repair	DR - Hire of equip jet / vac	HOURS
	D13-Missing lids	DR01-Pit clearing / cleaning	DR - Reinstate nature strip	SQ.M
	D14-Missing lintels	DR23-Drainage cleaning	DR - Open storm water ch clean out	LIN.M
	D15-Blocked drain private property	DR02-Cyclic mtce pit / drain cleaning	DR - Side entry pit cleaning	HOURS
	D16-Cyclic mtce pit / drain cleaning	DR05-Dr rising main mtce / repair	DR - Replace pit lid	ITEM
	D18-Dr rising main mtce / repair	DR22-Side entry pit cleaning	DR - Replace/Fix pit lid & surround	ITEM
	D19-Side entry pit mtce		DR - Skidsteer	HOURS
	D20-SEP lid damaged			
P-Footpath	F01-Traffic IsI - damaged kerbing	FP01-Footpah repair and maintenance	FP- Grinding	LIN.M
Maintenance	F02-Traffic IsI - steps / misalignment	FP02-Footpath construction	FP - Reconstr fp (75mm thick) < 10m	SQ.M
	F03-Footpath damaged	FP03-Footpath - vegetation	FP -Recon. fp vehicle xing(150mm thick)	SQ.M
	F04-Footpath concrete 10-40mm step		FP - Reconstr pram xing & links	ITEM
	F05-Footpath sealed 10-40mm step	7	FP - Reconstr paved fp & areas	SQ.M
	F06-Footpath paved 10-40mm step	7	FP - Reinstate sprinkler systems	ITEM
	F07-Footpath depression		FP - Resurface rd surf cold mix	SQ.M
	F08-Footpath unsealed	7	FP - Resurface rd surf asphalt	SQ.M
	F09-Footpath pram xing damaged	7	FP - Resurface rd surf jetpatcher	SQ.M
	F10-Footpath DDA access damaged		FP - Advise other authorities	ITEM
	F11-Footpath vehicle access damaged		FP - Grind pit lid	ITEM
	F12-Footpath - loose surface		FP - Skidsteer	HOURS
	F13-Footpath - tree 4.9m canopy ov traffic	7		
	F14-Footpath - tree 2.4m canopy ov traffic	7		
	F15-Footpath cracking	7		
	F16-Footpath - slipperiness	7		
	F17-Footpath - tree (private)	7		
	ND00 N= D=f==t	7		

KC-Kerb &	K01-K&C damaged	KC01-K&C repair or replacement	KC- Recon. barrier kerb	LIN.M
Channel	K05-K&C >50mm step		KC - Recon. of semi-mountable kerb	LIN.M
	K09-K&C Depression >100mm over 1200mm	1	KC - Recon. vehicle crossing	LIN.M
	K10-K&C Spoon drain		KC - Traf island reconstruction	LIN.M
	ND99-No Defect		KC - Traf island repair	LIN.M
		_	KC - Patch kerb & channel	ITEM
			KC - Recon. driveway layback	ITEM
			KC - Precast barrier kerb	LIN.M
			KC - Precast semi-mount kerb	LIN.M
			KC - Reinstatement of nature strip	SQ.M
			KC - Skidsteer	HOURS

ND99-No Defect



<i>Maintenance</i> Activity	Defect Code & Description	Treatment Code & Description	Bill Of Quantity Item	Unit
	R01-Linemarking - Faded	RF01-Resintatement of linemarking	RF - Linemarking	LIN.M
RF-Road Furniture	R02-Linemarking - Missing	RF02-Resinstatement of RPM	RF - RPM replacement	ITEM
	R03-Linemarking - Non reflective	RF03-Sign cleaning	RF - Sign cleaning	ITEM
	R04-RPM - Missing	RF04-Sign repair	RF - Sign repair	ITEM
	R05-RPM - Damaged	RF05-Sign replacement	RF - Sign replacement	ITEM
	R06-RPM - Non reflective	RF06-Sign post repair or replacement	RF - Repaint or new centre & lane lines	LIN.M
	R07-Sign (Street) - Damaged		RF - Repaint or new edge lines/bikeways	LIN.M
	R08-Sign (Street) - Missing	7	RF - Repaint or new STOP lines	ITEM
	R09-Sign (Street) - Dirty	7	RF - Repaint or new GIVE WAY lines	ITEM
	R10-Sign (Street) - Legend illegible	7	RF - Repaint or new parking bay lines	ITEM
	R11-Sign (Town) - Damaged		RF - Repaint/new school & pedestrian x- ing	ITEM
	R12-Sign (Town) - Missing	7	RF - Repaint or new railway crossings	ITEM
	R13-Sign (Town) - Dirty	7	RF - Repaint or new hazard markings	SQ.M
	R14-Sign (Town) - Legend illegible	7	RF - Repaint or new lane arrows	ITEM
	R15-Sign (Direction) - Damaged		RF - Repaint or new up to 6 letter words	ITEM
	R16-Sign (Direction) - Missing		RF - Repaint or new disabled logos	ITEM
	R17-Sign (Direction) - Dirty		RF - Repaint or new bike lane logos	ITEM
	R18-Sign (Direction) - Legend illegible		RF - Replace raised pavement markers	ITEM
	R19-Sign (Reg) - Damaged		RF - Supply & install sign & post	ITEM
	R20-Sign (Reg) - Missing		RF - School crossing marker posts	ITEM
	R21-Sign (Reg) - Dirty		RF - Post replacement only	ITEM
	R22-Sign (Reg) - Legend Illegible		RF - Remove Sign	ITEM
	R23-Sign (Warning) - Damaged		RF - Supply & install nameplate 150	ITEM
	R24-Sign (Warning) - Missing	1	RF - Supply & install nameplate 200	ITEM
	R25-Sign (Warning) - Dirty		RF - Skidsteer	HOURS
	R26-Sign (Warning) - Legend Illegible			
	R27-Sign Post - Damaged			
	R28-Sign Post - Missing	1		

DB-Drainage	DB01-Scour>300mm	DB01-Drainage Basin Maintenance	DB - Skidsteer	HOURS	
Basin	DB02-Vegetation-Growth>300mm	DB02-Advise Building Maintenance	DB - Weed spraying	HOURS	
	DB03-Vandalism	DB03-Advise Parks Services	DB - Slashing	HOURS	
	DB04-Signs-Missing	ND99-No Treatment Required	DB - Grass mowing	HOURS	
	DB05-Headwall-Maintenance		DB - Whipper snip Vegetation	HOURS	
	DB06-Headwall-Cleaning		DB - Sign Replacement	ITEM	
	DB07-Graffitti		DB - Sign Repair	ITEM	
	DB08-Damaged Fence		DB - Sign Cleaning	ITEM	
	ND99-No New Defects		DB - Rubbish Removal	HOURS	
	_		DB - Headwall Repair	HOURS	
			DB - Damaged Fence	LIN.M	

Maintenance Activity	Defect Code & Description	Treatment Code & Description	Bill Of Quantity Item	Unit	
RM-Road	M01-Pothole >300mm	RM01-Pothole patching	RM - Resurf. of road surface cold mix	SQ.M	
Maintenance	M02-Pothole <300mm	RM02-Edge repair	RM - Resurf. of road surface asphalt	SQ.M	
	M03-Edge drop off >100mm & <30m	RM03-Pavement repair	RM - Resurf. of road surface jetpatcher	SQ.M	
	M04-Edge drop off >100mm & >30m	RM04-Cracking sealing	RM - Reinstatement of rd pvment on I/s base	SQ.M	
	M05-Edge break	RM05-Pavers repair	RM - Tree & vegetation pruning	HOURS	
	M06-Deformation	RM06-Sweeping	RM - Tree & vegetation removal	HOURS	
	M07-Localised pavt distress >25sqm	RM07-Carpark maintenance	RM - Weed spraying / treatment roadside		
	M08-Surface bleeding	RM08-Guidepost maintenance	RM - Fence & handrail repair	HOURS	
	M09-Longitudinal cracking >=5mm			SQ.M	
	M100-Gate - renewal			HOURS	
	M101-Gate - cleaning	RM11-Sand drift	RM - Traffic island - weed control RM - Traffic island - litter collection	HOURS	
	M10-Transverse cracking >=5mm	RM12-Graffitti maintenance	RM - Traffic island - repair & maintenance	HOURS	
	M11-Fine crocodile cracking >=5mm	RM13-Traffic island maintenance	RM - Delineators - replace	ITEM	
	M12-Surface stripping	RM14-Tree & vegetation management	RM - Guidepost - replace - easydrive	ITEM	
	M13-Pavers deformation defects	RM15-Litter control	RM - Guard fence - removal & replace	HOURS	
	M14-Pavers lifting	RM18-Guardrail replacement	RM - Guard fence- tighten or replace	HOURS	
	M15-Pavers damaged	RM19-Grid cleaning/welding/renewal	RM - Truck & loader crew	HOURS	
	M16-Sweeping of intersection	RM20-Gate cleaning/welding/renewal	RM - Truck & Skidsteer crew	HOURS	
	M17-Sweeping of mersection	RM21-Remove Vegetation	RM - Graffiti removal - repaint	HOURS	
	M18-Carpark - pothole	Time 1 Homero regetation	RM - Carpark- pothole patching	SQ.M	
	M19-Carpark - edge drop off >100mm		RM - Carpark- edge patching	SQ.M	
	M20-Carpark - surface bleeding		RM - Carpark- repair bituminous surfacing	SQ.M	
	M21-Carpark - damaged barrier		RM - Carpark- repair barrier- timber	ITEM	
	M23-Guidepost - missing	<del>-</del>	RM - Carpark- repair barrier- steel	ITEM	
	M24-Guidepost - damaged		RM - Carpark- repair barrier- concrete	ITEM	
	M26-Guidepost delineator - missing		RM - Carpark - repair barrier - post	ITEM	
	M27-Guidepost delineator - damaged		RM - Reinstate edges/jetpatcher	LIN.M	
	M29-Ped fence / handrail - damaged		RM - Guardrail - replace	ITEM	
	M34-Guardrail delineator - damaged	<del>-</del>	RM - Crack Sealing (Emulsion)	LIN.M	
	M35-Guardrail delineator - missing	<b>=</b>	RM - Pothole Patching	ITEM	
	M37-Graffitti		RM - Reinstate edges cold mix	LIN.M	
	M38-Traffic island - weed control		RM Whipper Snipper around Post	HOURS	
	M39-Traffic island - litter		RM Weed Spray around Post	HOURS	
	M40-Tree - 4.9m canopy ov traffic lane		RM - Skidsteer	HOURS	
	M41-Tree & veg - pruning			1.100/10	
	M42-Tree & veg - removal				
	M43-Vegetation growth >600mm	$\dashv$			
	M44-Shrubs growth - road & footpath	$\dashv$			
	M45-Rubbish & carcass removal	$\dashv$			
	M46-Guardrail damaged				
	M47- Vegetation around post				
	M833-Guardrail missing	$\dashv$			
	M96-Grid - welding	$\dashv$			
	M97-Grid - cleaning				
	M98-Grid - renewal				
	M99-Gate - welding	=			

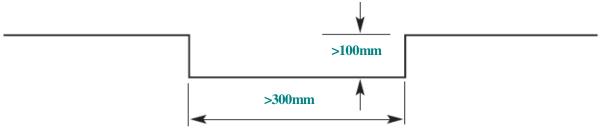


Maintenance Activity	Defect Code & Description	Treatment Code & Description	Bill Of Quantity Item	Unit
VR-VicRoads	V01-VicRoads defects	VR01-VicRoads treatments	VR - RM111 Pothole	SQ.M
vn-vichoaus	M111-Potholes		VR - RM112 Wheel rutting	SQ.M
	M112-Wheel ruts		VR - RM113 Cracking	LIN.M
	M113-Cracking		VR - RM114 Minor surface treatment	SQ.M
	M114-Minor surface defects		VR - RM116 Pavement cleaning	SQ.M
	M116-Pavement cleaning		VR - RM121 Edge repair	LIN.M
	M121-Edge drop-off		VR - RM131 Patching	SQ.M
	M131-Pathcing		VR - Sealed shoulder maintenance	SQ.M
1	M211-Sealed shoulders		VR - Unsealed shoulder maintenance	LIN.M
			VR - RM311 Unsealed road	
	M221-Unsealed shoulders		maintenance	LIN.M
	M311-Unsealed roads		VR - RM411 Surface drain maintenance	LIN.M
			VR - RM412 Subsurface drain	
	M411-Surface drains	<u> </u>	maintenance	ITEM
	M412-Subsurface drains	<u> </u>	VR - RM413 Culverts & pit cleaning	ITEM
	M413-Culvert & pit cleaning		VR - RM414 Culvert& pit repair	ITEM
	M414-Culverts & pit repair		VR - RM511 Grass mowing	SQ.M
	M511-Grass mowing		VR - RM512 Edge trimming	LIN.M
	M512-Edge trimming		VR - RM513 Weed Control	LIN.M
	M513-Weed control		VR - RM5151 Tree management	HOURS
	M515-Tree management		VR - RM611 Signs	ITEM
	M611-Signs mtce		VR - RM612 Guard fence	LIN.M
	M612-Guardfence mtce		VR - RM613 Guideposts maintenance	ITEM
	M613-Guideposts mtce		VR - RM615 Sign replacement	ITEM
	M615-Sign replacement		VR - RM617 Island / footpaths mntnce	SQ.M
	M617-Traf Isl / Footpath mtce	_	VR - RM816 Emergency patching	SQ.M
	M816-Emergency repair		VR - RM818 Vandal damage repair	HOURS
	M818-Vandalism repair		VR - RM822 Litter control	ITEM
	M822-Litter control			

## **Appendix '3' - 'Category 1' Safety Defect Definitions**

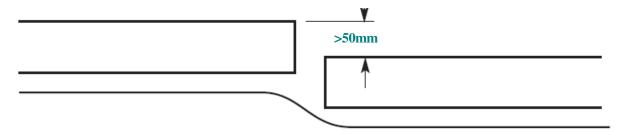
Damage is defined as a defect in the pavement which impairs the value or usefulness of the carriageway and provides a safety hazard for road users.

i) A sharp edged depression (pothole) of 100mm or greater in depth and extending in any one direction greater than 300mm.

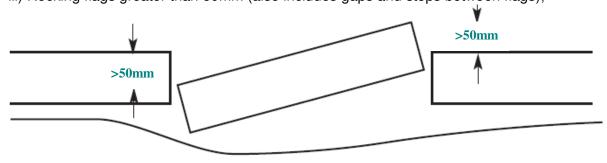


Damage is defined as a defect in the footway which impairs the value or usefulness of the footway and provides a safety hazard for pedestrians. Guidance is as follows: -

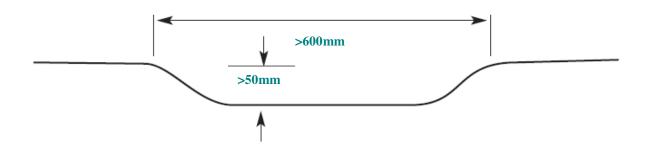
ii) Trips greater than 50mm i.e. differences in level including manholes, frames, boxes etc.



iii) Rocking flags greater than 50mm (also includes gaps and steps between flags);



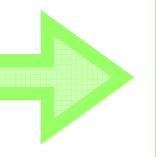
iv) Rapid change of footway profile greater than 50mm and extending in plan direction less than 600mm.





## **Appendix '4' – Examples of Defects and Conditions**

Maintenance Activity:
EM-Emergency Callout
Defect Code & Description:
EO1-Flood
Treatment Code & Description
EM01-Emergency callout, response & repair
BOQ Item
Crew Response Normal Hours
Units
Hours







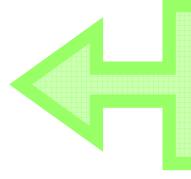


Maintenance Activity:
MG-Maintenance Grading
Defect Code & Description:
MG-06-Drop off >100mm and >300m
Treatment Code & Description
MG-05 - Grading Shoulders
BOQ Item
Reconstruction gravel shoulders
Units
LIN M









Maintenance Activity:
DR-Drainage
Defect Code & Description:
DR-08 Damaged Surrounds
Treatment Code & Description
DR 13 Surround - Replace
BOQ Item
S&P SEP Cover H/D
Units
ITEM

## **Appendix '4' – Examples of Defects and Conditions (cont.)**

Maintenance Activity:
FP – Footpath Maintenance
Defect Code & Description:
F04 – Footpath concrrete10-40mm step
Treatment Code & Description
FP01-Footpath Repair & Maintenance
BOQ Item
Grinding
Units
LIN M





Maintenance Activity:
RF- Road Furniture
Defect Code & Description:
R23-Sign (Warning) - Damaged
Treatment Code & Description
RF-04- Sign replacement
BOQ Item
Supply & install OTHER signs & posts
Units
ITEM





Maintenance Activity:
RM- Road Maintenance
Defect Code & Description:
RM01 - Pothole >300mm
Treatment Code & Description
RM01 - Pothole patching
BOQ Item
Pothole Patching
Units
Item



## **Appendix '5' – Mildura Rural City Council - Road Hierarchy**

Classification	Туре	Definition	PF	Target Standards
Arterial	VicRoads Arterial	VicRoads Declared Main Road or Highway – not a council maintenance responsibility	-	As per VicRoads standards
	Sealed Link Road (Urban)	Sealed roads carrying very high traffic volumes including commercial vehicles and providing the principal routes for vehicles in and around the major urban areas.	Α	Variable seal width
Link Roads	Sealed Link Road (Dryland)	Sealed roads carrying moderate volumes of traffic and linking small townships to arterial roads within Council's dryland areas.	С	Variable seal width; 2m shoulders
	Sealed Link Road (Irrigated)	Sealed roads carrying high volumes of traffic and linking urban areas.	С	Variable seal width; 2m shoulders
	Sealed Collector Road (Urban)	Sealed roads carrying moderate volumes of traffic and linking local areas to link and arterial roads in the Council's urban areas.	Α	Variable seal width
	Sealed Collector Road (Irrigated)	Sealed roads carrying moderate volumes of traffic and linking local areas to link and arterial roads in the Council's irrigated area.	С	Variable seal width; 2m shoulders
Collector	Sealed Collector Road (Dryland)	Sealed roads carrying moderate volumes of traffic and linking local areas to arterial roads in the Council's dryland areas.	С	Variable seal width; 2m shoulders
	Unsealed Collector Road (Dryland)	Gravel roads in dryland areas identified through consultation with local residents as being high priority roads; also school bus routes.	Е	8.0m pavement; 1m shoulders
	Unsealed Collector Road (Irrigated)	Gravel roads within Council's irrigated areas with relatively high traffic volumes and linking sealed collector roads; also school bus routes.	Е	8.0m pavement; 1m shoulders
	Sealed Laneway	Sealed roads carrying only local traffic, typically providing secondary access to properties with more than one street frontage.	В	7.9m seal
	Sealed Local Road (Urban)	Sealed roads carrying only local traffic. Their primary function is to provide access to private properties within Council's urban areas.	В	7.9m seal
	Sealed Local Road (Irrigated)	Sealed roads carrying only local traffic. Their primary function is to provide access to horticultural properties within Council's irrigated area.	D	6.8m seal width; 2m shoulders
	Sealed Local Road (Dryland)	Sealed roads carrying only traffic local to small rural centres in Councils dryland areas.	D	6.8m seal width; 2m shoulders
Local	Unsealed Laneway	Unsealed roads carrying only very local traffic, typically only providing occasional secondary access to properties with more than one street frontage.	F	Variable pavement width; 1m shoulders
	Unsealed Local Road (Dryland)	Unsealed roads in dryland areas carrying only low volumes of local traffic.	F	Variable pavement width; 1m shoulders
	Unsealed Local Road (Irrigated)	Unsealed roads in Council's irrigated area carrying only low volumes of local traffic.	F	Variable pavement width; 1m shoulders
	Unmade Natural Surface (Dryland)	Unshaped road lacking imported pavement material but graded occasionally, located in dryland area. (Typically only used by a few vehicles per day.)	G	No design provided
	Unmade Natural Surface (Irrigated)	Unshaped road lacking imported pavement material but graded occasionally, located in irrigated area. (Typically only used by a few vehicles per day.)	G	No design provided
Other	Unconstructed	Unconstructed roads often fenced off and licensed to adjoining landowners, and at best a "goat track." (Typically < 1 vehicle per day.)	-	Council has no maintenance responsibility

## **Appendix '6' - Inspection Requirements**

Inspection Type	Purpose	Inspection Performed by & Reporting Requirements
Reactive/Safety Inspection	<ul> <li>Safety inspections are designed to identify all defects likely to create danger or serious inconvenience to users of the network or the wider community.</li> <li>Safety issues may be detected as the result of:         <ul> <li>(a) formal programmed defect inspection; or observation followed by notification to council by members of the community or council employees while undertaking their normal work duties with a subsequent safety inspection to be conducted by an appropriate council officer.</li> </ul> </li> </ul>	<ul> <li>Council representative with some knowledge of road maintenance techniques who may then call in a higher level of expertise if necessary.</li> <li>Recording to identify specific safety defect, time first reported, time inspected &amp; by whom, subsequent action &amp; time of completion.</li> </ul>
Incident Inspection	<ul> <li>An inspection carried out to comply with the requirements the Road Management Act [Division 5 – Claims Procedure, Clause 116];</li> <li>This inspection enables an incident condition report to be prepared for use in legal proceedings and the gathering of information for the analysis of the causes of accidents and the planning and implementation of road management and safety measures.</li> </ul>	<ul> <li>Qualified engineer or experienced technical officer with extensive knowledge and experience in road construction and maintenance practices.</li> <li>Formal Incident Report required, as described.</li> </ul>
Programmed Inspection	<ul> <li>Inspection undertaken in accordance with a formal programmed inspection schedule to determine if the road asset complies with the levels of service as specified in the Asset Management Plan;</li> <li>A record of each street/road is to be completed detailing the name of the inspector, the inspection date, time and street/road name and a description of any defects found that are at the specified intervention levels defined in the Asset Management Plan;</li> <li>In addition, a notation must to be recorded of any street/road inspected where no defect was apparent under the specific rigour of the inspection.</li> </ul>	<ul> <li>Engineer or technical officer with knowledge of road maintenance techniques;</li> <li>A record of the inspection is to be signed by the inspector for placing on council's asset database for reference purposes (NB: this may include insurance or litigation requirements).</li> </ul>
Condition Inspection	<ul> <li>An inspection specifically to identify deficiencies in the structural integrity of the various components of the road infrastructure assets which if untreated, are likely to adversely affect network values. The deficiencies may well impact short-term serviceability as well as the ability of the component to continue to perform for the duration of its intended life span;</li> <li>The condition inspection process must also meet the requirements for accounting regulations and asset management;</li> <li>Regular or periodic assessment, measurement and interpretation of the resulting condition data is required so as to determine the need for any preventive or remedial action then development of relevant programs of rehabilitation or renewal works.</li> </ul>	<ul> <li>Inspection undertaken under the direction of a qualified engineer or experienced technical officer with extensive knowledge and experience in road construction and maintenance practices;</li> <li>Specific data to be recorded is determined by requirements of the Asset Management Plan &amp; the Asset Information System used to assess asset component needs.</li> </ul>



## **Appendix '7' – Programmed Inspection Frequencies**

		Inspe	ction Type, Frequency & Department Re	Responsible to undertake Inspection		
Asset Group	Hierarchy Category	Programmed	Department	Condition	Department	
	Link - Urban	6 months	Works and Infrastructure Services	4 years	Asset Services	
	- Irrigated	6 months	Works and Infrastructure Services	4 years	Asset Services	
	- Dry Land	6 months	Works and Infrastructure Services	4 years	Asset Services	
	Collector - Urban	6 months	Works and Infrastructure Services	4 years	Asset Services	
Sealed Roads	- Irrigated	6 months	Works and Infrastructure Services	4 years	Asset Services	
	- Dry Land	6 months	Works and Infrastructure Services	4 years	Asset Services	
	Local - Urban	6 months	Works and Infrastructure Services	4 years	Asset Services	
	- Irrigated	6 months	Works and Infrastructure Services	4 years	Asset Services	
	- Dry Land	6 months	Works and Infrastructure Services	4 years	Asset Services	
	Laneways – Urban	6 months	Works and Infrastructure Services	4 years	Asset Services	
	Collector - Irrigated	6 months	Works and Infrastructure Services	5 years	Asset Services	
	- Dry Land	6 months	Works and Infrastructure Services	5 years	Asset Services	
Unsealed Roads	Local - Irrigated	6 months	Works and Infrastructure Services	5 years	Asset Services	
Unsealed Roads	- Dry Land	6 months	Works and Infrastructure Services	5 years	Asset Services	
	Laneways – Urban	6 months	Works and Infrastructure Services	5 years	Asset Services	
	Unmade Natural Surface	12 months	Works and Infrastructure Services	5 years	Asset Services	
Off-Street Car	Sealed	6 months	Works and Infrastructure Services	4 years	Asset Services	
Parks	Unsealed	6 months	Works and Infrastructure Services	5 years	Asset Services	
Bridges	Guardrail protection	6 months	Works and Infrastructure Services	5 years	Asset Services	
bridges	MRCC Responsibility Only	6 months	Works and Infrastructure Services	5 years	Asset Services	
	Link	6 months	Works and Infrastructure Services	5 years	Asset Services	
l ino mouking	Collector	6 months	Works and Infrastructure Services	5 years	Asset Services	
Line marking	Local	12 months	Works and Infrastructure Services	5 years	Asset Services	

## **Appendix '7' - Inspection Frequencies (cont)**

		Inspection Type, Frequency & Department			
Asset Group	Hierarchy Category	Programmed	Department	Condition	Department
Roadside	Regulatory Signs	6 months	Works and Infrastructure Services	N/A	
Furniture	Bus Shelters	2 years	Works and Infrastructure Services	4 years	Asset Services
Roadside	Street Trees Urban (General)	neral) 2 years Environmental Services		N/A	
Vegetation	Street Trees Urban (Power line clearance)	12 months	Environmental Services	N/A	
	Langtree Mall , 8 <sup>th</sup> & 9 <sup>th</sup> St paved areas	6 months	Works and Infrastructure Services	4 years	Asset Services
Faatnatha	Mildura CBD	6 months	Works and Infrastructure Services	4 years	Asset Services
Footpaths	Other Urban areas	12 months	Works and Infrastructure Services	4 years	Asset Services
	Irrigation and Rural areas unsealed	12 Months	Works and Infrastructure Services	4 years	Asset Services
	Link	6 months	Works and Infrastructure Services	4 years	Asset Services
Kaub 0 Obannal	Collector	6 months	Works and Infrastructure Services	4 years	Asset Services
Kerb & Channel	Local	6 months	Works and Infrastructure Services	4 years	Asset Services
	Rural Irrigated Intersections	6 months	Works and Infrastructure Services	4 years	Asset Services

**CRM:** When applied to Inspection frequency, CRM (Customer Request) indicates that an inspection will only be undertaken upon a request being submitted and an assessment made as to whether an inspection is warranted on the grounds of a risk to public safety.

**N/A:** This denotes that the issue is not applicable as that asset component does not exist in that category or an inspection is not warranted.



## **Appendix '8' - Inspection Roster**

	Modified April 2013												
Inspection Roster	Grading Area's 1-15: Financial Plan Zones	January	February	March	April	May	June	July	August	September	October	November	Decembe
	Footpath Zones: Mildura CBD & A-F Zones Link (6 Months)	M/a mina di	0	Malaaria	Underbool	Murravville	Marianus	Werrimull	0	Malaaria	Underbool	Managarilla	Meringur
	- Urban	Werrimull Nangiloc/Colignan	Ouyen Irymple	Walpeup Red Cliffs	Cardross	Merbein	Meringur Lake	Nangiloc/Coligna	Ouyen Irymple	Walpeup Red Cliffs	Cardross	Murrayville Merbein	Lake
	- Irrigated	Nichols Point	7 1 -				Cullulleraine	n	, , ,		1		Cullulleraine
								Nichols Point					
	Night – Time – Safety inspection (12 Months) Collector (6 Months)		0	Malaaria	I ladada a	Night Audit	Madaga	Werrimull	0	Malaana	I lastastas al	Managemille	Manianum
	- Urban	Nangiloc/Colignan	Ouyen Irymple	Walpeup Red Cliffs	Underbool Cardross	Murrayville Merbein	Meringur Lake	Nangiloc/Coligna	Ouyen Irymple	Walpeup Red Cliffs	Underbool Cardross	Murrayville Merbein	Meringur Lake
		Nichols Point	yp.o	1100 011110	Gararooo	Wild Doll 1	Cullulleraine	n	,	1100 00	I	WO DOWN	Cullulleraine
	- Irrigated							Nichols Point					
	Night – Time – Safety inspection (12 Months)				<del></del>	Night Audit					<del></del>		
Sealed Roads	Local (6 Months) -Urban	Werrimull Nangiloc/Colignan	Ouyen Irymple	Walpeup Red Cliffs	Underbool Cardross	Murrayville Merbein	Meringur Lake	Werrimull Nangiloc/Coligna	Ouyen Irymple	Walpeup Red Cliffs	Underbool Cardross	Murrayville Merbein	Meringur Lake
Codica Hoddo	-Irrigated	Nichols Point	TryThple	ried Cillis	Cardioss	Weibein	Cullulleraine	n	TryThple	ried Oillis	Jaraioss	Weibein	Cullullerair
	-Dry Land							Nichols Point			i		
	Laneways (6 Months)	Werrimull	Ouyen	Walpeup	Underbool	Murrayville	Meringur	Werrimull	Ouyen	Walpeup	Underbool	Murrayville	Meringur
		Nangiloc/Colignan	Irymple	Red Cliffs	Cardross	Merbein	Lake	Nangiloc/Coligna	Irymple	Red Cliffs	Cardross	Merbein	Lake
	-Urban	Nichols Point					Cullulleraine	n Nichols Point			i		Cullullerain
	Mildura Zones (6 Months)	Zone A	Zone B	Zone C	Zone D	Zone E	Zone F	Zone A	Zone B	Zone C	Zone D	Zone E	Zone F
	Windura Zories (O World'is)	Zone A	Zone b	Zone C	Zone D	ZOTIE L	Mildura CBD	Zone A	Zone b	Zone o	Zone D	ZOTIE L	Mildura CB
	Off Street Car Parks (6 Months)	Zone A	Zone B	Zone C	Zone D	Zone E	Zone F	Zone A	Zone B	Zone C	Zone D	Zone E	Zone F
							Mildura CBD						Mildura CB
	(6 Months)												
	C=Collector	Werrimull	Ouyen	Walpeup	Underbool	Murrayville		Werrimull	Ouyen	Walpeup	Underbool	Murrayville	Meringur
	SB= School Bus Route	Nangiloc/Colignan	Irymple	Red Cliffs	Cardross	Merbein	Meringur	Nangiloc/Coligna	Irymple	Red Cliffs	Cardross	Merbein	Lake
	L=Local	Nichols Point					Lake Cullulleraine	n Nichols Point			i		Cullullerair
	U=Unmade						Guildileranie	NICHOIS I OILL			i		
Insealed Roads		Werrimull	Ouyen	Walpeup	Underbool	Murrayville	Meringur	Werrimull	Ouyen	Walpeup	Underbool	Murrayville	Meringur
		Nangiloc/Colignan	Irymple	Red Cliffs	Cardross	Merbein	Lake	Nangiloc/Coligna	Irymple	Red Cliffs	Cardross	Merbein	Lake
		Nichols Point					Cullulleraine	n			i		Cullullerair
	Unsealed Laneways (6 Months)	Zone A	Zone B	Zone C	Zone D	Zone E		Nichols Point Zone A	Zone B	Zone C	Zone D	Zone E	
		Zone A	Zone B	Zone o	Zone B	Zone E	Zone F	Zone A	Zone B	Zone o	Zone B	Zone L	Zone F
	<u> </u>	<u> </u>											
									0				
		Werrimull	Ouyen	Walpeup	Underbool	Murrayville	Meringur	Werrimull	Ouyen	Walpeup	Underbool	Murrayville	Meringur
Guardrail Protection	Guardrail - MRCC Responsibility (6 Months)	Nangiloc/Colignan	Ouyen Irymple	Walpeup Red Cliffs	Underbool Cardross	Murrayville Merbein	Lake	Werrimull Nangiloc/Coligna	Irymple	Walpeup Red Cliffs	Underbool Cardross	Murrayville Merbein	Lake
Guardrail Protection	Guardrail - MRCC Responsibility (6 Months)							Nangiloc/Coligna n					Lake
Guardrail Protection	Guardrail - MRCC Responsibility (6 Months)	Nangiloc/Colignan					Lake	Nangiloc/Coligna					Lake
Guardrail Protection		Nangiloc/Colignan Nichols Point					Lake Cullulleraine	Nangiloc/Coligna n					Lake Cullullerair
Guardrail Protection	Guardrail – MRCC Responsibility (6 Months)  Langtree Mall, 8 <sup>th</sup> & 9 <sup>th</sup> St paved areas (6 Months) Mildura CBD (6 Months)	Nangiloc/Colignan Nichols Point					Lake	Nangiloc/Coligna n					Lake Cullullerain Mildura CB
Guardrail Protection	Langtree Mall, 8th & 9th St paved areas (6 Months)	Nangiloc/Colignan Nichols Point		Red Cliffs  Walpeup			Lake Cullulleraine Mildura CBD	Nangiloc/Coligna n					Lake Cullullerair Mildura CE
Guardrail Protection	Langtree Mall, 8 <sup>th</sup> & 9 <sup>th</sup> St paved areas (6 Months) Mildura CBD (6 Months)	Nangiloc/Colignan Nichols Point	Irymple	Red Cliffs	Cardross	Merbein	Lake Cullulleraine  Mildura CBD Mildura CBD Meringur Lake	Nangiloc/Coligna n Nichols Point	Irymple	Red Cliffs	Cardross	Merbein	Lake Cullullerair Mildura CE Mildura CE
Guardrail Protection  Footpaths	Langtree Mall, 8th & 9th St paved areas (6 Months)	Nangiloc/Colignan Nichols Point	Irymple Ouyen	Red Cliffs  Walpeup	Cardross	Merbein  Murrayville	Lake Cullulleraine  Mildura CBD Mildura CBD Meringur	Nangiloc/Coligna n Nichols Point	Irymple	Red Cliffs	Cardross	Merbein	Lake Cullullerair Mildura CE Mildura CE
	Langtree Mall, 8 <sup>th</sup> & 9 <sup>th</sup> St paved areas (6 Months) Mildura CBD (6 Months)	Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point	Ouyen Irymple	Red Cliffs  Walpeup Red Cliffs	Underbool Cardross	Merbein  Murrayville  Merbein	Lake Cullulleraine  Mildura CBD Mildura CBD Meringur Lake Cullulleraine	Nangiloc/Coligna n Nichols Point	Irymple  Zone B	Red Cliffs  Zone C	Cardross  Zone D	Merbein  Zone E	Lake Cullullerain Mildura CE Mildura CE Zone F
	Langtree Mall, 8 <sup>th</sup> & 9 <sup>th</sup> St paved areas (6 Months) Mildura CBD (6 Months) Other Areas Sealed (12 Months)	Nangiloc/Colignan Nichols Point	Irymple Ouyen	Red Cliffs  Walpeup	Cardross	Merbein  Murrayville	Lake Cullulleraine  Mildura CBD Mildura CBD Meringur Lake	Nangiloc/Coligna n Nichols Point	Irymple	Red Cliffs	Cardross	Merbein	Lake Cullullerair Mildura CE Mildura CE
	Langtree Mall, 8 <sup>th</sup> & 9 <sup>th</sup> St paved areas (6 Months) Mildura CBD (6 Months)	Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Werrimull	Ouyen Irymple Ouyen Ouyen	Red Cliffs  Walpeup Red Cliffs  Walpeup	Cardross  Underbool Cardross  Underbool	Merbein  Murrayville Merbein  Murrayville	Lake Cullulleraine  Mildura CBD Mildura CBD Meringur Lake Cullulleraine  Meringur	Nangiloc/Coligna n Nichols Point	Irymple  Zone B	Red Cliffs  Zone C	Cardross  Zone D	Merbein  Zone E	Lake Cullullerain Mildura CE Mildura CE Zone F
	Langtree Mall, 8 <sup>th</sup> & 9 <sup>th</sup> St paved areas (6 Months) Mildura CBD (6 Months) Other Areas Sealed (12 Months)	Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point	Ouyen Irymple Ouyen Irymple Ouyen Irymple	Red Cliffs  Walpeup Red Cliffs  Walpeup Red Cliffs	Underbool Cardross Underbool Cardross	Merbein  Murrayville Merbein  Murrayville Merbein	Lake Cullulleraine  Mildura CBD Mildura CBD Meringur Lake Cullulleraine  Meringur Lake Cullulleraine	Nangiloc/Coligna n Nichols Point  Zone A  Zone A	Zone B Zone B	Red Cliffs  Zone C  Zone C	Zone D Zone D	Merbein  Zone E  Zone E	Lake Cullullerair  Mildura CE Mildura CE Zone F
	Langtree Mall, 8 <sup>th</sup> & 9 <sup>th</sup> St paved areas (6 Months) Mildura CBD (6 Months) Other Areas Sealed (12 Months)	Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Werrimull Werrimull Werrimull	Ouyen Irymple Ouyen Irymple Ouyen Ouyen Ouyen Ouyen	Red Cliffs  Walpeup Red Cliffs  Walpeup Red Cliffs  Walpeup Red Cliffs	Underbool Cardross Underbool Cardross Underbool Underbool	Merbein  Murrayville Merbein  Murrayville Merbein  Murrayville Merbein	Lake Cullulleraine  Mildura CBD Mildura CBD Meringur Lake Cullulleraine  Meringur Lake Cullulleraine  Meringur Meringur Meringur Meringur	Nangiloc/Coligna n Nichols Point  Zone A  Zone A	Zone B Zone B Ouyen	Red Cliffs  Zone C  Zone C  Walpeup	Zone D  Zone D  Underbool	Merbein  Zone E  Zone E  Murrayville	Lake Cullullerain Mildura CB Mildura CB Zone F  Zone F
	Langtree Mall, 8 <sup>th</sup> & 9 <sup>th</sup> St paved areas (6 Months) Mildura CBD (6 Months) Other Areas Sealed (12 Months) Other Areas Unsealed (12 Months)	Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan	Ouyen Irymple Ouyen Irymple Ouyen Irymple	Red Cliffs  Walpeup Red Cliffs  Walpeup Red Cliffs	Underbool Cardross Underbool Cardross	Merbein  Murrayville Merbein  Murrayville Merbein	Lake Cullulleraine  Mildura CBD Mildura CBD Meringur Lake Cullulleraine  Meringur Lake Cullulleraine  Meringur Lake Cullulleraine	Nangiloc/Coligna n Nichols Point  Zone A  Zone A	Zone B Zone B	Red Cliffs  Zone C  Zone C	Zone D Zone D	Merbein  Zone E  Zone E	Lake Cullullerain  Mildura CE Mildura CE Zone F  Zone F
	Langtree Mall, 8 <sup>th</sup> & 9 <sup>th</sup> St paved areas (6 Months) Mildura CBD (6 Months) Other Areas Sealed (12 Months)	Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Werrimull Werrimull Werrimull	Ouyen Irymple Ouyen Irymple Ouyen Ouyen Ouyen Ouyen	Red Cliffs  Walpeup Red Cliffs  Walpeup Red Cliffs  Walpeup Red Cliffs	Underbool Cardross Underbool Cardross Underbool Underbool	Merbein  Murrayville Merbein  Murrayville Merbein  Murrayville Merbein	Lake Cullulleraine  Mildura CBD Mildura CBD Meringur Lake Cullulleraine  Meringur Lake Cullulleraine  Meringur Meringur Meringur Meringur	Nangiloc/Coligna n Nichols Point  Zone A  Zone A  Werrimull Nangiloc/Coligna n Nichols Point	Zone B Zone B Ouyen	Red Cliffs  Zone C  Zone C  Walpeup	Zone D  Zone D  Underbool	Merbein  Zone E  Zone E  Murrayville	Lake Cullullerain  Mildura CE Mildura CE Zone F  Zone F
Footpaths	Langtree Mall, 8 <sup>th</sup> & 9 <sup>th</sup> St paved areas (6 Months) Mildura CBD (6 Months) Other Areas Sealed (12 Months) Other Areas Unsealed (12 Months)	Nangiloc/Colignan Nichols Point  Werrimull  Nangiloc/Colignan Nichols Point  Werrimull  Nangiloc/Colignan Nichols Point  Werrimull  Nangiloc/Colignan Nichols Point  Zone A	Ouyen Irymple Ouyen Irymple Ouyen Irymple Zone B	Red Cliffs  Walpeup Red Cliffs  Walpeup Red Cliffs  Walpeup Red Cliffs  Zone C	Underbool Cardross Underbool Cardross Underbool Cardross Underbool Cardross Zone D	Merbein  Murrayville Merbein  Murrayville Merbein  Murrayville Merbein  Zone E	Lake Cullulleraine  Mildura CBD Mildura CBD Meringur Lake Cullulleraine  Meringur Lake Cullulleraine  Meringur Lake Cullulleraine  Zone F	Nangiloc/Coligna n Nichols Point  Zone A  Zone A  Werrinull Nangiloc/Coligna n Nichols Point Zone A	Zone B  Zone B  Ouyen Irymple Zone B	Zone C  Zone C  Walpeup Red Cliffs Zone C	Zone D  Zone D  Underbool Cardross Zone D	Zone E  Zone E  Murrayville Merbein  Zone E	Lake Cullullerain  Mildura CE Mildura CF Zone F  Zone F  Meringur Lake Cullullerain Zone F
	Langtree Mall, 8 <sup>th</sup> & 9 <sup>th</sup> St paved areas (6 Months) Mildura CBD (6 Months) Other Areas Sealed (12 Months) Other Areas Unsealed (12 Months)	Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Zone A  Werrimull	Ouyen Irymple Ouyen Irymple Ouyen Irymple Zone B Ouyen	Red Cliffs  Walpeup Red Cliffs  Walpeup Red Cliffs  Walpeup Red Cliffs  Zone C  Walpeup	Underbool Cardross  Underbool Cardross  Underbool Cardross  Underbool Cardross  Zone D  Underbool	Merbein  Murrayville Merbein  Murrayville Merbein  Murrayville Merbein  Zone E  Murrayville	Lake Cullulleraine  Mildura CBD Mildura CBD Meringur Lake Cullulleraine  Meringur Lake Cullulleraine  Meringur Lake Cullulleraine  Meringur Lake Cullulleraine  Meringur Lake Meringur Lake Cullulleraine	Nangiloc/Coligna n Nichols Point  Zone A  Zone A  Werrimull Nangiloc/Coligna n Nichols Point Zone A  Werrimull	Zone B  Zone B  Ouyen Irymple  Zone B  Ouyen Ouyen	Zone C  Zone C  Walpeup Red Cliffs Zone C  Walpeup	Zone D  Zone D  Underbool Cardross Zone D  Underbool	Zone E  Zone E  Murrayville Merbein Zone E  Murrayville	Lake Cullullerair  Mildura CE Mildura CE Zone F  Zone F  Arringur Lake Cullullerair Zone F  Meringur Meringur Meringur
Footpaths	Langtree Mall, 8 <sup>th</sup> & 9 <sup>th</sup> St paved areas (6 Months) Mildura CBD (6 Months)  Other Areas Sealed (12 Months)  Other Areas Unsealed (12 Months)  Drainage Basins (6 Months)	Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Zone A  Werrimull Nangiloc/Colignan	Ouyen Irymple Ouyen Irymple Ouyen Irymple Zone B	Red Cliffs  Walpeup Red Cliffs  Walpeup Red Cliffs  Walpeup Red Cliffs  Zone C	Underbool Cardross Underbool Cardross Underbool Cardross Underbool Cardross Zone D	Merbein  Murrayville Merbein  Murrayville Merbein  Murrayville Merbein  Zone E	Lake Cullulleraine  Mildura CBD Mildura CBD Meringur Lake Cullulleraine  Meringur Lake Cullulleraine  Meringur Lake Cullulleraine  Meringur Lake Cullulleraine Zone F  Meringur Lake	Nangiloc/Coligna n Nichols Point  Zone A  Zone A  Werrinull Nangiloc/Coligna n Nichols Point Zone A	Zone B  Zone B  Ouyen Irymple Zone B	Zone C  Zone C  Walpeup Red Cliffs Zone C	Zone D  Zone D  Underbool Cardross Zone D	Zone E  Zone E  Murrayville Merbein  Zone E	Lake Cullullerain  Mildura CB Mildura CB Zone F  Zone F  Meringur Lake Cullullerain Zone F  Meringur
Footpaths	Langtree Mall, 8 <sup>th</sup> & 9 <sup>th</sup> St paved areas (6 Months) Mildura CBD (6 Months) Other Areas Sealed (12 Months) Other Areas Unsealed (12 Months)	Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Werrimull Nangiloc/Colignan Nichols Point  Zone A  Werrimull	Ouyen Irymple Ouyen Irymple Ouyen Irymple Zone B Ouyen	Red Cliffs  Walpeup Red Cliffs  Walpeup Red Cliffs  Walpeup Red Cliffs  Zone C  Walpeup	Underbool Cardross  Underbool Cardross  Underbool Cardross  Underbool Cardross  Zone D  Underbool	Merbein  Murrayville Merbein  Murrayville Merbein  Murrayville Merbein  Zone E  Murrayville	Lake Cullulleraine  Mildura CBD Mildura CBD Meringur Lake Cullulleraine  Meringur Lake Cullulleraine  Meringur Lake Cullulleraine  Meringur Lake Cullulleraine  Meringur Lake Meringur Lake Cullulleraine	Nangiloc/Coligna n Nichols Point  Zone A  Zone A  Werrimull Nangiloc/Coligna n Nichols Point Zone A  Werrimull	Zone B  Zone B  Ouyen Irymple  Zone B  Ouyen Ouyen	Zone C  Zone C  Walpeup Red Cliffs Zone C  Walpeup	Zone D  Zone D  Underbool Cardross Zone D  Underbool	Zone E  Zone E  Murrayville Merbein Zone E  Murrayville	Lake Cullullerair  Mildura CE Mildura CE Zone F  Zone F  Arringur Lake Cullullerair Zone F  Meringur Meringur Meringur

Sealed Link and Collection – Activity List

	Guide Posts
	Sight Distance
	Pavement
Activity	Line Marking
Activity	Kerb & Channel
	Shoulders
	Bus Shelters
	Trees

Sealed Local – Activity List

	Pavement
Activity	Guide Posts
	Signage
	Shoulders
A ativity	Carparks
Activity	Kerb & Channel
	Laneways
	Line Marking
	Bus Shelters
	Trees

Northern Unsealed – Activity List

Activity	Pavement
	Shoulders
	Guide Posts
	Signage
	Sight Distance
	Trees

Southern Unsealed – Activity List

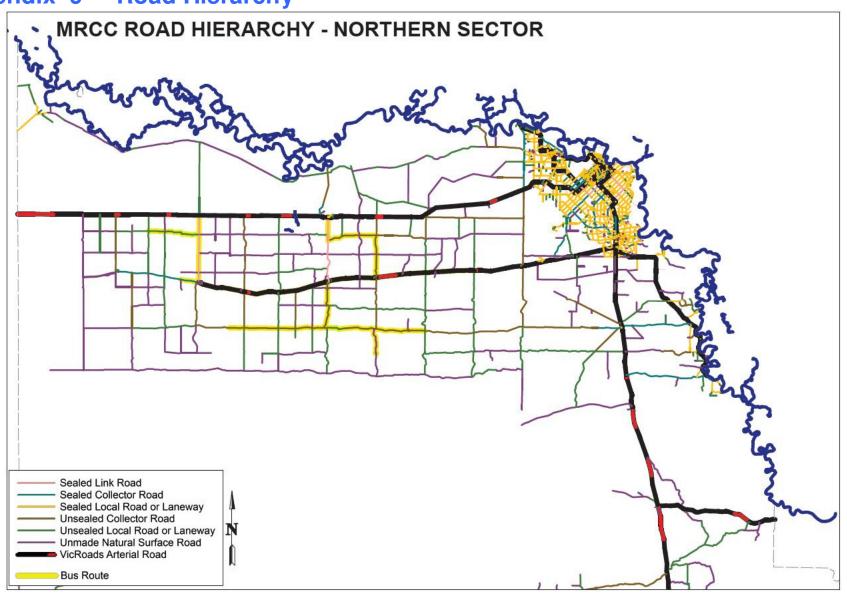
Activity	Pavement
	Shoulders
	Guide Posts
	Signage
	Sight Distance
	Trees



Footpath & Shared Path – Activity List

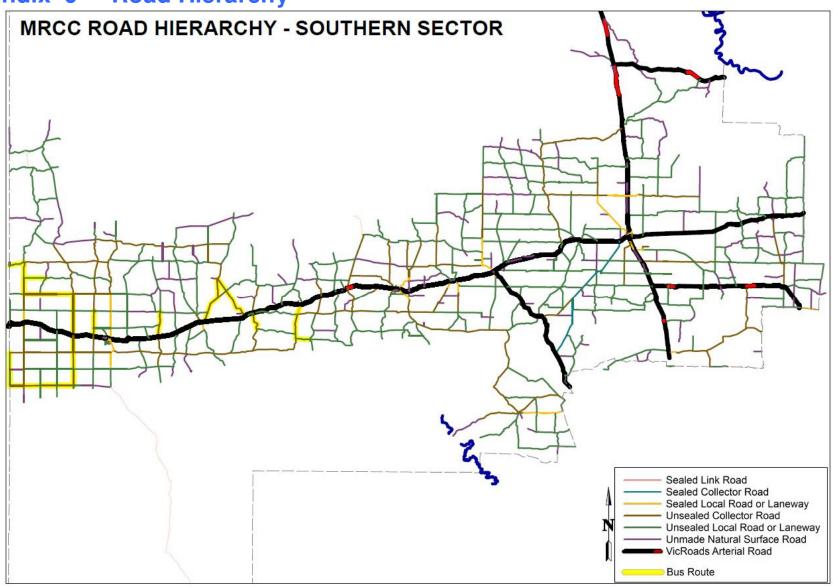
	,	
Activity	Trips 10-40	
	Trips <40	
	Cracking	
	Slipperiness	
	Washout	
	Services	
	Trees (Private)	
		Trees (Council)

## **Appendix '9' – Road Hierarchy**

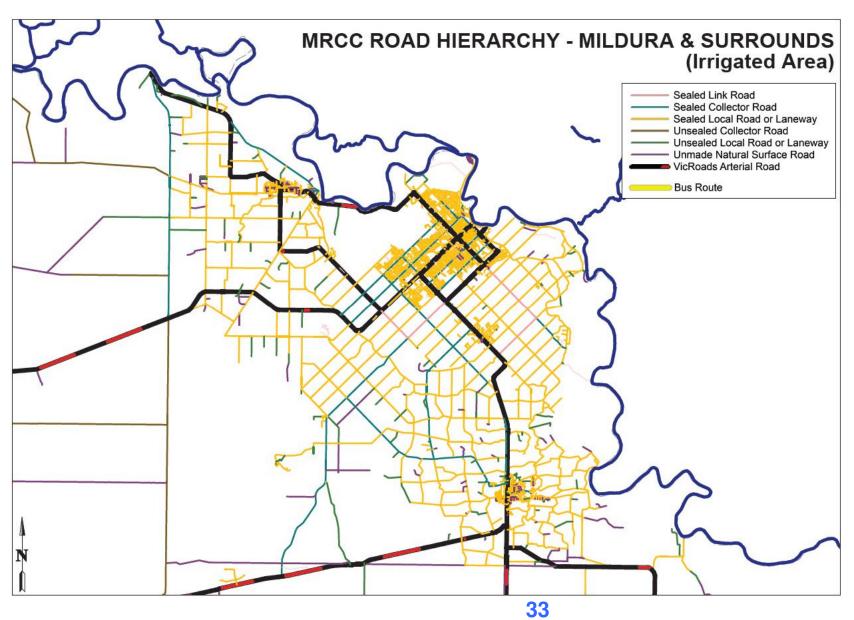




## Appendix '9' - Road Hierarchy



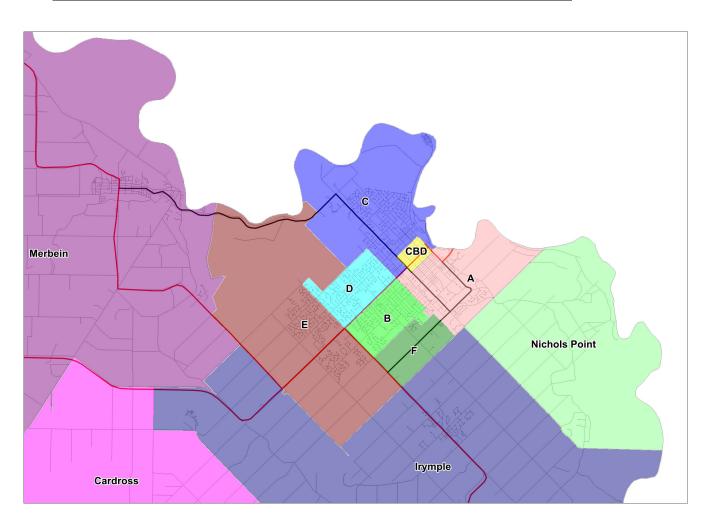
## **Appendix '9' – Road Hierarchy**



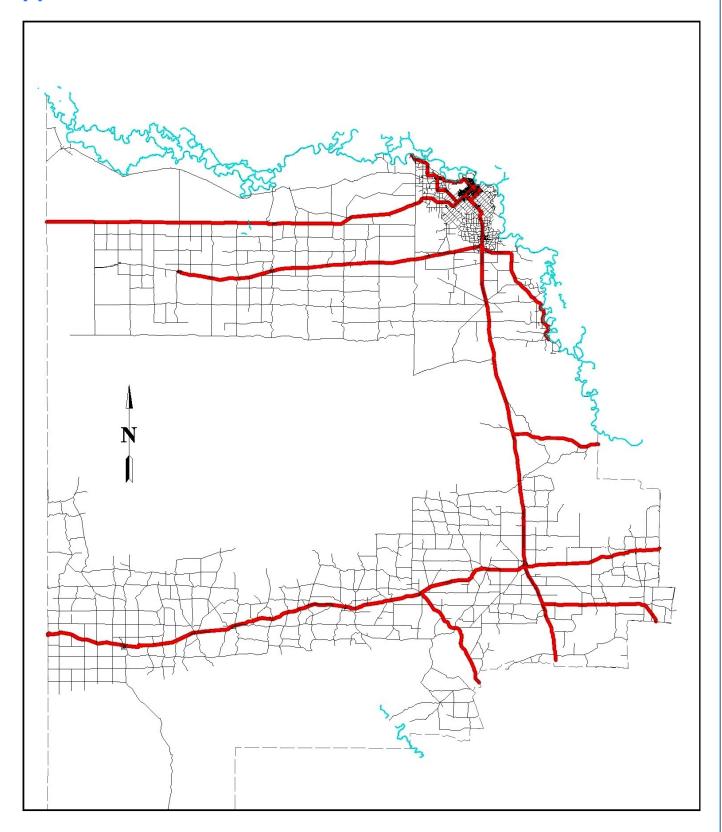


## **Appendix '10' – Mildura Footpath Zones**

Hierarchy Category
CBD Mildura
Other Areas:- Sealed
Other Areas:- Unsealed

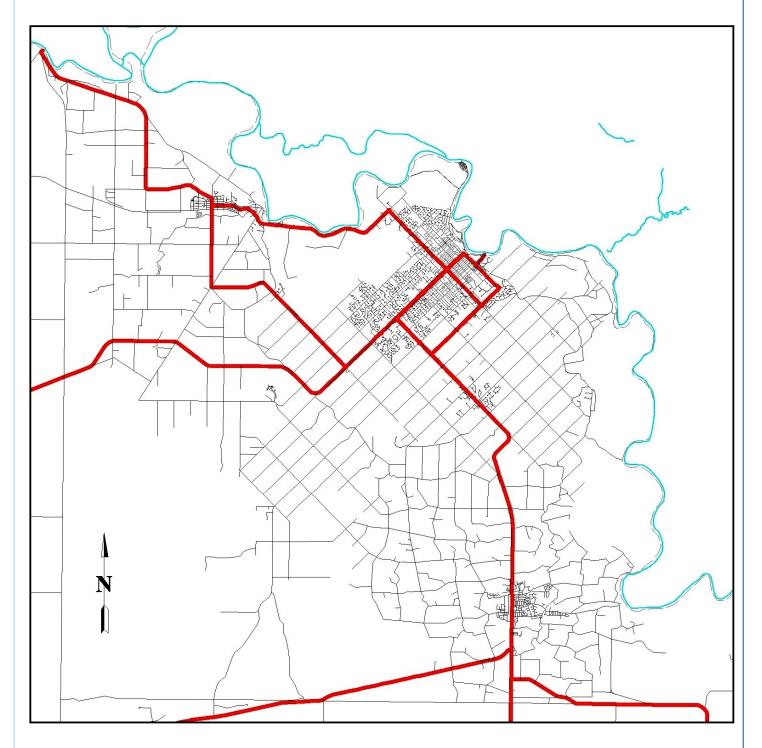


## Appendix '11' - VicRoads Zones



Roads marked red are declared Highways and Main Roads and are the responsibility of VicRoads.





#### Mildura Irrigated Area

Roads marked red are declared Highways and Main Roads and are the responsibility of VicRoads

## Appendix '12' - Glossary of Terms

Activity means action necessary to restore or repair a

particular asset to a specified condition;

Asset means a physical feature or item that is required

to be maintained by the Contractor under this

Service Level Agreement

Asset Management

System

means an asset recording database, the data of

which reverts to the property of Council at the

expiry of the Contract

Best Value Principles means the Best Value Principles described in

section 208B of the Local Government Act 1989;

Council means the Mildura Rural City Council.

Day means all calendar days apart from Christmas

and Good Friday.

Defect means identified group of like features together

with their location, whose condition is outside the intervention levels with the activity needed to restore those features to the acceptable level;

Intervention Level defines the condition of a feature or a frequency

at which action is necessary to restore/repair the

asset to the specified state;

Manager Asset Services means the person appointed by Council to

represent the Mildura Rural City Council for the

management of the Asset Services Branch

Manager Works and

Infrastructure Services

means the person appointed by Council to represent the Mildura Rural City Council for the

management of the Works and Infrastructure

Services Branch

Performance Standard is a measure (as a percentage of the specified

standard) that the condition of the asset or the performance of the Works and Infrastructure Services Branch shall not fall below at any point

in time:

Roads means all those roads of various hierarchies

detailed in the MRCC Register of Roads.



The Services

means -

(a) the performance of work;

(b) the supply of materials; and

(c) all other things required to be done -

under this Service Level Agreement by the Works and Infrastructure Services Branch, as indicated

in the SLA Documents.

**Abbreviations** 

CCF - Civil Contractors Federation

CRM – Customer Request Management

WIS - Works and Infrastructure Services

MRCC - Mildura Rural City Council

RFS – Request for Service

SLA – Service Level Agreement