

Contract 11/004

Provision of Road Drainage Maintenance Services

Annex 1 - Overview of Intervention Levels and Response Times							
Item	Activity	Definition / Description	Intervention Levels	Response Times			
				Trunk Collector (CLASS 1)	Collector Road (CLASS 2)	Access Street (CLASS 3)	Access Place (CLASS 4)
Section 4 - Unsealed Roads							
4.5	Inspection	Inspection of all unsealed roads and carparks to identify any defect associated with road assets as specified	Program and by request.	Every 2 weeks. By request 2 Days	Every 4 weeks. By request 5 Days.	Every 6.5 weeks. By request 10 Days.	Every 6 Months. By request 15 Days.
4.6	Potholes and Minor Surface Defects	Repair of any holes in the road surface where the surfacing material, and often the pavement material has broken out as specified in Section 4.	Potholes greater than 50mm in depth and or greater than 300mm in diameter and less than 50 in number per km. Pavement defects comprising corrugations, depressions and scours, of 50mm depth under a 1.2 metre straight edge transversely or a 3.0 metre edge longitudinally up to 20% of the pavement surface per kilometre. Soft or slippery areas comprise up to 5% or more of the sub	2 Days	5 Days	10 Days	20 Days
4.7	Programmed Grading	Programmed grading of unsealed roads and carparks to provide a smooth compacted surface free of potholes, rutting, corrugations and maintain good crossfall to allow free draining of the pavement, formation of tabledrains and spot gravelling where approved as Specified in Section 4.	Potholes greater than 300mm diameter (0.07m ²) and/or greater than 50mm deep exceed 50 in number per kilometre. As per 4.7.17 Standard of works. Pavement defects comprising corrugations, depressions and scours, of 50mm depth under a 1.2 metre straight edge transversely or a 3.0 metre edge longitudinally exceed 20% of the pavement surface per kilometre. Greater than 20% of the pavement surface area per kilometre comprises	Every 4 Week	Every 8 Week	Every 13 Week	Annual cycle

Contract 11/004

Provision of Road Drainage Maintenance Services

4.7	Remedial / Intervention Level Grading	Remedial grading as directed by Council when deterioration is attributed to the failure of the contractor to properly grade the road in the first instance as specified in Section 4. Intervention level grading where a road has been identified as not meeting the specified maintenance standards and is approved by Council as detailed in Section 4	As for programmed grading.	5 Days	5 Days	5 Days	5 Days
4.7	Additional Grading	As requested by Council, any additional grading activities which may involve additional grading, ripping, reforming etc as Specified in Section 4	As for programmed grading.	10 Days	10 Days	10 Days	10 Days
Item	Activity	Definition / Descriptive	Intervention Levels	Response Times			
				Regional (CLASS 1)	District (CLASS 2)	Local (CLASS 3)	
Section 4 - Unsealed Carparks (Off Road)							
4.5	Inspection	Inspection of all carparks to identify any defect associated with road assets as specified in Section 4.	Program and by request.	Every 6 Months. By request 15 Days.	Annual. By request 15 Days.	Annual. By request 15 Days.	

Contract 11/004

Provision of Road Drainage Maintenance Services

4.6	Potholes and Minor Surface Defects	Repair of any holes in the car park surface where the surfacing material, and often the pavement material has broken out out as specified in Section 4.	Potholes greater than 50mm in depth and or greater than 300mm in diameter and less than 50 in number per km. Pavement defects comprising corrugations, depressions and scours, of 50mm depth under a 1.2 metre straight edge transversely or a 3.0 metre edge longitudinally up to 20% of the pavement surface per kilometre. Soft or slippery areas comprise up to 5% or more of the sub length of 1km.	10 Days	20 Days	20 Days
4.7	Programmed Grading	Programmed grading of unsealed roads and carparks to provide a smooth compacted surface free of potholes, rutting, corrugations and maintain good crossfall to allow free draining of the pavement, formation of tabledrains and spot gravelling where approved as Specified in Section 4.	Potholes greater than 300mm diameter (0.07m2) and/or greater than 50mm deep exceed 50 in number per kilometre. As per 4.7.17 Standard of works. Pavement defects comprising corrugations, depressions and scours, of 50mm depth under a 1.2 metre straight edge transversely or a 3.0 metre edge longitudinally exceed 20% of the pavement surface per kilometre. Greater than 20% of the pavement surface area per kilometre comprises loose material with an average depth of more than 25mm. Water ponds on the road and cannot be drained longitudinally or crossfall is less than 3% or greater than 7%. Soft or slippery areas comprise 5% or more of the sub length of 1km. Including 4.7.17 Standard of works.	Every 6 Months.	Annual cycle	Annual cycle

Contract 11/004

Provision of Road Drainage Maintenance Services

4.7	Remedial / Intervention Level Grading	Remedial grading as directed by Council when deterioration is attributed to the failure of the contractor to properly grade the road in the first instance as specified in Section 4. Intervention level grading where a road has been identified as not meeting the specified maintenance standards and is approved by Council as detailed in Section 4	As for programmed grading.	5 Days	5 Days	5 Days
-----	---------------------------------------	--	----------------------------	--------	--------	--------

4.7	Additional Grading	As requested by Council, any additional grading activities which may involve additional grading, ripping, reforming etc as Specified in Section 4	As for programmed grading.	10 Days	10 Days	10 Days
-----	--------------------	---	----------------------------	---------	---------	---------

Item	Activity	Definition / Description	Intervention Levels	Response Times			
				Trunk Collector (CLASS 1)	Collector Road (CLASS 2)	Access Street (CLASS 3)	Access Place (CLASS 4)

Section 5 - Sealed Roads and Carparks							
5.7	Inspection	Inspection of all sealed roads and carparks to identify any defect associated with road assets as specified in Section 5.	Program and by request inspections.	Monthly. Annual night. By request 1 Day.	Two Monthly. Annual night. By request 2 Days	Four Monthly. 24 month night. By request 5 Days	Annual. 24 month night. By request 10 Days

5.9.1 & 5.11	Potholes or Minor Surface Defect	Repair of any holes or minor surface defects in the road surface where the surfacing material, and often the pavement material has broken out or weakened as specified in Section 5.	As per 5.9.1 Specification.	2 Days	2 Days	5 Days	10 Days
--------------	----------------------------------	--	-----------------------------	--------	--------	--------	---------

Contract 11/004

Provision of Road Drainage Maintenance Services

5.9.5 & 5.11	Edge Breaks / Edge Drop	Repair any edge breaks where the edge of the sealed surface is fretted, broken or irregular. Reinststate any edge drop offs which occur along the interface of a sealed road surface and the shoulder/verge as specified in Section 5.	Repair where edge break exceeds 75mm laterally and or edge drop off between sealed surface and shoulder or verge exceeds 25mm.	5 Days	10 Days	10 Days	10 Days
5.9.2 & 5.11	Ruts / Depressions	Regulate any rut or depression in the road surface as specified in Section 5.	Any rut or depression in the surface of a sealed road which exceeds 25mm in depth under a 1.2 metre straight edge transversely or under a 3 metre straight edge longitudinally.	5 Days	10 Days	20 Days	20 Days
5.9.6 & 5.11	Minor Reseals	Program minor reseal works where extensive cracking and or stripping has developed as specified in Section 5.	Stripping, fatty and / or block cracking exceeds 5m2 in area with 50% aggregate loss and the pavement has not failed up to but no greater than 40 m2.		20 Days		
5.9.3	Cracksealing	Sealing of cracks in the surface of any sealed road surface as specified in Section 5.	Program and seal any cracks greater than 5mm in width.		20 Days		
5.9.7 & 5.11	Pavement Failure	Repair pavement deformations such as shoving which require a major dig out or any surface defects greater than 40m2 as specified in Section 5.	When a failed area results in danger to the public, the sealed surface no longer holds, extensive shoving has occurred and road surface drainage is no longer effective. Conventional methods of maintenance fail to maintain the surface.	If a hazard to the public within 5 days, otherwise in accordance with an approved program.			
5.13.1	Minor Shoulder Defects	Repair of shoulder including removal of potholes, wheel ruts, depressions, scours and soft spots in isolated locations not requiring grading as specified in Section 5.	Any potholes, ruts, scours, depressions and or soft spots >100mm in depth.	10 Days	10 Days	15 Days	15 Days

Contract 11/004

Provision of Road Drainage Maintenance Services

<p>5.13.2 Shoulder Grading to 5.13.9</p>	<p>Programmed and intervention grading of unsealed shoulders to remove surface deformations and lip at seal and drain as specified in Section 5.</p>	<p>More than 50 potholes per kilometre of shoulder which are greater than 300mm diameter (0.70m²) and/or greater than 50mm deep. Corrugations, depressions or scours of 50mm depth under a 1.2m straight edge transversely, or a 3.0m straight edge longitudinally which exceed 20% of the shoulder area per kilometre of shoulder. Water forms or ponds on the shoulder. Soft and slippery areas comprise more than 5% or more of the shoulder area per kilometre. The drop from the sealed pavement to the unsealed shoulder exceeds 50mm over the entire distance of any 20 metre length.</p>	<p>As per Shoulder Grading program. Remedial / intervention grading within 5 days.</p>
<p>5.12 Road Openings</p>	<p>Reinstatement of sealed pavement in all road openings carried out by other service authorities and private operators as directed by Council as specified in Section 5.</p>	<p>Any road opening as directed by Council.</p>	<p>2 Days</p>

Contract 11/004

Provision of Road Drainage Maintenance Services

Item	Activity	Definition / Description	Intervention Levels	Response Times		
				High Pedestrian (CLASS 1)	Low Pedestrian (CLASS 2)	Limited Pedestrian (CLASS 3)
Section 6 - Pathways						
6.6	Inspection of Pathways and Paved Areas	Inspection of all Pathways and paved areas to record and identify any defect as specified in Section 6.	Program and on request inspections.	6 Months	1 Year	2 Years
6.8	Routine Maintenance of Pathways and Paved Areas	Removal of surface level vegetation within pathways and paved areas as specified in Section 6.	Remove where any surface level vegetation has encroached onto pathways or paved areas or is growing in joints or cracks.	10 Days	20 Days	20 Days
6.9 to 6.11	Repair and Replacement of Pathways and Paved Areas including Tactile Surface Indicators	Repair or replacement of pathways and paved areas as specified in Section 6.	Repair where; levels between surface exceed 10mm or are likely to create a tripping hazard; Cracks and missing pieces are wider than 10mm and longer than 100mm; tree roots causing total vertical displacement of 50mm above the general path alignment; Drop from end of pathway or side is greater than 50mm or presents a hazard; Depressions / potholes exceed 25mm in depth and or 300mm in diameter; loose, smashed or missing tactile surface indicators.	5 Days	20 Days	20 Days

Item	Activity	Definition / Description	Intervention Levels	Response Times			
				Trunk Collector (CLASS 1)	Collector Road (CLASS 2)	Access Street (CLASS 3)	Access Place (CLASS 4)
Section 6 - Kerbs							
6.6	Inspection of Kerb and Channel	Inspection of all kerb and channel to record	Program and on request inspections.	Annual inspection program. On request 10 Days.			
6.8	Routine Maintenance or Kerb and Channel	Removal of surface level vegetation within kerb and channel as specified in Section 6.	Remove where any surface level vegetation has encroached or entered the kerb and channel.	5 Days	10 Days	20 Days	20 Days

Contract 11/004

Provision of Road Drainage Maintenance Services

6.12	Repair and Replacement of Kerb and Channel	Repair or replacement of kerb and channel as specified in Section 6.	Repair where; Uplifting sections causing in excess of 20mm depression in tray of kerb and channel; Kerb tilted greater than 25mm; Lateral displacement of top of kerb greater than 50mm; Sections of kerb and channel greater than 100mm broken or missing.	5 Days	10 Days	20 Days	20 Days
------	--	--	---	--------	---------	---------	---------

Section 7 - Bridge & Major Culverts

7.5 & 7.6	Bridge & Major Culvert Inspection and Minor Maintenance	Level 1 inspection of bridges and major culverts and minor maintenance as specified in Section 7.	Bridge/culverts waterways are clear of debris and/or rubbish. No scouring of the bed of the stream, at bridge abutments or culvert ends. All deck drainage is open and clear to allow drainage from the deck. Superstructure and substructures are free of debris and dirt build up. Rock beaching on spill through bridge abutments or other locations are in place. Bridge and culvert structures are free from graffiti and dirt and any painted surfaces are free of defects. Bridge decking on bridges is secure and does not require tightening. Vegetation is not against or causing obstruction to visibility of the bridge or approach railing. Bridge approaches are in good condition to ensure a smooth transition. Guardrail or handrail infrastructure is tight. Appropriate reflectors and delineation is in place.	Inspection and minor works to be completed annually by 15th December and report to Council by 31st December.			
-----------	---	---	--	--	--	--	--

7.8	Major Maintenance of Bridges & Major Culverts	Major maintenance of bridges and major culverts detected during level 1 inspections and approved by Council as specified in Section 7.	In accordance with Item 7.2	As directed by Contract Superintendent.			
-----	---	--	-----------------------------	---	--	--	--

Contract 11/004

Provision of Road Drainage Maintenance Services

Item	Activity	Definition / Description	Intervention Levels	Response Times
Section 8 - Urban & Rural Drainage				
8.7 & 8.8	Inspection, Cleaning and Minor Maintenance of Pits, rain gardens, sediment ponds, bioretention swales and Outlets.	Inspection and cleaning of pits, rain gardens, bioretention swales, sediment ponds and drainage outlets to remove any debris and identify any defect, resetting any displaced pit lids as specified in Section 8	All pits and outlets to be kept at 75% operating capacity and free of debris. All pit lids and surrounds to be secure. All scours in rain gardens and swales to be removed. Freeboard within rain gardens to be maintained. Sediment/silt within sediment ponds not to exceed 50% of the volume of the pond.	Annual inspection and cleaning of all SEP's and Grated Pits. Annual Inspection of all drainage outlets. Annual inspection, cleaning and minor maintenance of all rain gardens, bioretention swales and sediment ponds. Six monthly inspection and cleaning of Litter Traps. Cleaning of identified JP's within 20 days. Removal of debris from mouths of grates, SEP's and outlets within 10 days of identification. Inspections on request within 10 days. Resetting of pit lids within 24hrs.
8.8.4	Inspection and Cleaning of Gross Pollutant Traps.	Inspection and cleaning of Gross Pollutant Traps to remove any debris and silt and identify any defect as specified in Section 8.	Program basis.	All GPT's to be inspected and cleaned every 6 months.
8.8.7	Removal of sediment and silt from Sediment Ponds	Removal, dewatering and disposal of sediment as specified in Section 8.	Sediment / silt within pond exceeds 50% of volume of the pond.	Annual Inspection of all sediment ponds. Any non programmed inspections and cleaning within 10 days.
8.9 & 8.12	Inspection and Clearing of Pipe Network	Undertake visual CCTV inspection audit of pipes and combination cleaning as specified in Section 8.	Program basis on a projected cycle of 50 years or as directed.	Annual Inspection of 2% of network. Any non programmed inspections and cleaning within 10 days.
8.10	Drainage Pit Repairs	Maintenanace and repair including replacement of damaged pit lids and/or surrounds and lintels, reinstating missing pit lids and replacing grates in accordance with Section 8.	All pit lids and surrounds are to be secure and structurally sound.	If a hazard to the public 2 Days. All others 10 days.

Contract 11/004

Provision of Road Drainage Maintenance Services

8.12 to 8.14	Property Connection & Main Pipe Drainage Repairs. Below ground pipe & filter material repairs to rain gardens and bioretention swales.	Investigation and repair of property connection points and dig out and repair of main drainage as specified in Section 8.	All pipe drainage to be kept at 75% operating capacity and free of debris.	If liable to affect private property 2 Days. All others 10 days.	
8.15	Rural Culvert Inspections and Minor Maintenance.	Inspection and cleaning of minor culverts to remove any debris and identify any defect as specified in Section 8.	All culverts to be kept at 75% operating capacity and free of debris.	Annual inspection and cleaning of all minor culverts.	
8.16	Rural Culvert Major Repairs	Major repairs to minor culverts including replacement, extending and installation of endwalls as specified in Section 8.	All culverts to be kept at 75% operating capacity and free of debris.	If a hazard to the public 2 Days. All others 20 days.	
8.17	Open Drain Maintenance	Maintaining open/table drains not undertaken as part of maintenance grading as specified in Section 8.	All open/table drains to be free of debris, scours and erosion and must be free draining.	If a hazard to the public 2 Days. All others 20 days.	
Section 9 - Street Furniture and Traffic Control					
9.4	Inspection of Street Furniture and Traffic Control Devices.	Inspection of all street furniture and traffic control devices to record and identify any defect as specified in Section 9. Recording on unlisted items as specified in Section 9.	Program and on request inspections.	Annual Inspection program.	On request 10 days.
9.5 & 9.6	Signs and Delineation	Cleaning and straightening signs and guideposts, clearing vegetation from signs and guideposts, reinstalling and securing signs and guideposts, replacement of faded, damaged or missing signs and guidepost as specified in Section 9	All signs are to be free of any graffiti, secure, vertical and be in the correct alignment. Sign/guideposts to be free of vegetation and clearly visible. Replace missing or damaged signs or signs that have lost reflectivity by 50%. Replace missing guideposts when 10% of posts are missing on straights and 5% on curves.	Regulatory Signage - 1 Day Warning Signage - 5 Days	Hazard Markers - 5 Days Guideposts - 10 Days All other Signage 20 Days

Contract 11/004

Provision of Road Drainage Maintenance Services

9.5 & 9.6	Street Furniture	Repair, replacement and installation of street furniture as specified in Section 9.	All street furniture to be free of graffiti, secure and operational. Furniture must be free of vegetation and clearly visible.	20 Days.
--------------	------------------	---	--	----------

9.5 & 9.6	Traffic Control Devices	Repair, replacement and installation of traffic control devices as specified in Section 9.	All traffic control devices to be free of graffiti and clearly visible to traffic. All vegetation in joints and cracks to be removed. All debris to be removed. Repair/replace hard paved areas where sunk, cracked, chipped or heaved when lips are greater than 10mm, have mounds or depressions in excess of 25mm and are not free draining.	20 Days.
--------------	-------------------------	--	---	----------