

# Standard Specification for Civil Maintenance v.9.1

## Updates Overview

Table – Updates Overview

CLAUSE		CHANGE
<ul style="list-style-type: none"> <li>– Definitions clauses for work sections have lists of definitions placed into table format.</li> <li>– PROVISION FOR TRAFFIC, SPRAY SEALING MAINTENANCE, and PAVEMENT MARKING MAINTENANCE work sections updated so that text consistent with corresponding work sections in Standard Specification for Roadworks (SSRw).</li> <li>– Significant updates and changes to ROAD FURNITURE MAINTENANCE, AERODROME AND AEROPLANE LANDING AREA MAINTENANCE, and ROAD AND MARINE AMENITY MAINTENANCE work sections.</li> <li>– Minor editorial changes, updates to web page URLs, updates to Australian Standards and other cited documents and organizations.</li> <li>– Some clause renumbering due to addition and deletion of clauses.</li> </ul>		
<b>01 MISCELLANEOUS PROVISIONS</b>		
1.4	Definitions	Several definitions updated PUBLIC HOLIDAY definition added MASH definition added
1.18	Utilities and Other Services Passing Under Existing Pavements	Clause updated including order of text
1.22	Breaking Ground Work Near Traffic Counting Stations	Inclusion of requirement to check site for controller boxes and detector cables
1.28.1	Contractor's Responsibilities and Submissions - Warranties	Sub-clause has increased references to PROJECT SPECIFIC REQUIREMENTS in the RFT/RFQ Table – Warranties Schedule updated
1.28.2	Contractor's Responsibilities and Submissions - Certificates of Compliance	Table – Certificates of Compliance Schedule updated
1.28.3	Contractor's Responsibilities and Submissions - Compliance – Traceability of Components	Table – Compliance – Traceability of Components Schedule updated
1.30	Management Service and Support	Additional service requirements including for signage, briefings, and reporting
<b>02 PROVISION FOR TRAFFIC</b>		
		Comprehensive update to entire work section having content consistent with PROVISION FOR TRAFFIC in SSRw
2.24	Road Work Zone Length	New clause

CLAUSE		CHANGE
2.25.2	Traffic Signals, Intelligent Transport Systems (ITS), Variable Speed Limit Zones, and Traffic Count Stations - Variable Speed Limit Zones	Requirements prior to commencing earthworks added
2.25.3	Traffic Signals, Intelligent Transport Systems (ITS), Variable Speed Limit Zones, and Traffic Count Stations - Traffic Count Stations and Culweigh Stations	Sub-clause added
<b>03 EARTHWORKS AND DRAINAGE MAINTENANCE</b>		
3.5	Earthworks in cut	Added where new subgrade abutting existing pavement, subgrade compaction increased to 98% relative compaction over full width of pavement widening
3.6	Earthworks in fill	Explicitly stated that “Rocky Material”, or “Rock Fill” method requires prior approval by the Superintendent prior to use
3.7	Fill Material	General fill sub-clause deleted, along with all reference to general fill
3.7.1	Fill Material - Standard Fill	Added requirement to be free of organic material
3.7.2	Fill Material - Select Fill	Added requirement maximum particle size for select fill is 50 mm when it is used in the subgrade layer
3.7.3	Fill Material - Subgrade Material	New sub-clause added to provide increased clarification
3.9	Earthworks for drainage	Maximum slope text deleted Minor editions to text for clarification
<b>04 CONFORMANCE TESTING</b>		
4.3	Definitions	List of definitions placed into table format
4.11.2	Lot testing Generally - Table - Dry Density Ratios for Conformance	New subgrade abutting existing pavement included in Works Components column
<b>05 GRADING AND GRAVEL SHEETING</b>		
5.5	Grading Generally	Explicitly stated graded surface to be free from the formation of windrows
5.8.2	Materials - Fine Crushed Rock	Added that the use of fine crushed rock is to be limited to sealed road applications.
5.15.3	Proof Rolling Notice	Superintendent notice period updated
5.15.8	Other Tolerance Requirements	New clause added having text consistent with SSRw
<b>06 STABILISATION MAINTENANCE</b>		
6.6.4	In-situ Stabilisation - Spreading	Major sub-clause updates
6.6.5	In-situ Stabilisation - Mixing	Updated what applications alternative plant to pavement reclaimer can be used
6.8	Reconstruction of Pavement	Minor sub-clause updates
<b>07 SPRAY SEALING MAINTENANCE</b>		
		Comprehensive update to entire work section having content consistent with SPRAY SEALING in SSRw
7.5.1	Scope - Cycle and Pedestrian Shared Path Maintenance	Under pavement growth inhibitor text updated to be consistent with SSRw

CLAUSE		CHANGE
7.6	Material Requirements	Major update to all material requirements to be consistent with SSRw
7.6.9	Geofabric	New sub-clause added having text consistent with SSRw
7.10	Binder Coat Requirements	Major update to all binder coat requirements to be consistent with SSRw
7.10.1.2	Binder Coat Requirements – General -Definitions	List of definitions placed into table format
7.11.5	Sampling of Binder – Collection of Samples	Major update to requirements for collection of samples to be consistent with SSRw
7.13	Precoating Aggregate	Major update to requirements for precoating aggregate to be consistent with SSRw
7.15.3	Application Spray Rates	Major update to requirements for application spray rates to be consistent with SSRw
7.15.4	Preparation for Sprayer Run	Major update to requirements for sprayer run preparation to be consistent with SSRw
7.16	Application of Geofabric	New clause added having text consistent with SSRw
7.17	Application of Aggregate	Notable updates to application of aggregate requirements to be consistent with SSRw, with notable updates also to aggregate spread rates
7.19	Waste Material	Added hold point requiring Superintendent approval prior to use of rotary type brooms
7.22.1	Calculation of Equivalent Volumes for Spray Rates – Bitumen Equivalent Volumes	Major updates to Table – Bitumen Equivalent Volumes to be consistent with SSRw
7.23	Price Adjustment for Bitumen	New clause added having text consistent with SSRw
<b>08 BITUMINOUS SURFACE MAINTENANCE</b>		
		Minor Updates
8.4	Definitions	List of definitions placed into table format
<b>09 CONCRETE MAINTENANCE</b>		
9.9.3	Construction - Cycle and Pedestrian Shared Path Maintenance	Under pavement growth inhibitor text updated to be consistent with SSRw plus other minor updates
9.13	Surface Finishes – Table – Concrete Finishes	Table formatted
<b>10 DRAINAGE MAINTENANCE</b>		
10.4	Definitions	Minor changes to definitions List of definitions placed into table format
10.6.10	Construction of Culverts and Structures – Backfill	Requirements to stabilise top 150 mm of backfill along full width of culvert between headwalls made explicit plus minor rewording of text
10.11.4	Subsoil Drains - Subsoil Drain Pipe / Rectangular Section	Clarification on using Class 400 pipe / rectangular section in areas not likely to be trafficked. Added option to use Class 1000 pipe / rectangular section in trafficable areas.

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<b>11 PROTECTION WORKS MAINTENANCE</b>		
		Minor updates
<b>12 ROAD FURNITURE MAINTENANCE</b>		
		Comprehensive updates to multiple clauses and consequent changes to clause numbering
12.4	Definitions	List of definitions placed into table format
12.5	Civil Standard Drawings – Table – Civil Standard Drawings for Road Furniture Maintenance	New CS drawings added. Drawing titles updated as appropriate
12.7	Tactile Ground Surface Indicators (TGSIs)	Added requirements for surface fixed units to have tapered edges to tiles and abutting edges of TGSIs units to be flush to concrete
12.8.6	Fencing – Pedestrian Fence	Added requirements for repairing and reinstating pedestrian fencing that is damaged
12.8.7	Fencing - Bollards	Log Barrier Fence sub-clause deleted as log barrier fencing is no longer in use. Bollards sub-clause has been created after being combined with text from Recycled Plastic Bollards sub-clause. Recycled Plastic Bollards sub-clause has been deleted
12.8.8	Fencing – Vehicle Movement Barriers/Fences	Added requirements for repairing vehicle movement barrier/fencing that is damaged
12.8.11	Cycle/Shared Path Vehicle Restrictive “Banana Bar” Barrier	Sub-clause added
12.9	Plastic Flexible Guide Posts	Clause changed from covering flexible guide posts to specifically covering plastic flexible guide posts. Content is consistent with SSRw
12.9.7	Plastic Flexible Guide Posts – Installation of Guide Posts	Updated to include removal of broken existing posts
12.10	Steel Flexible Guide Posts	Clause changed from covering steel guide posts to specifically covering steel flexible guide posts. Content is consistent with SSRw
12.10.7	Steel Flexible Guide Posts – Installation of Guide Posts	Updated to include removal of broken existing posts
12.11	Testing of Flexible Guide Posts	New clause. Content is consistent with SSRw
12.13.2	Road Signs – Manufacture, Supply, and Delivery – Remotely Activated Road Condition Information Signs	Comprehensive sub-clause update
12.13.3	Road Signs – Manufacture, Supply, and Delivery – Materials	Deleted paragraph on post specification and other edits
12.14	Delivery Times – Normal Requirements	Comprehensive clause update
12.15.8	Road Signs – Installation and Maintenance – Remove and Replace Existing Posts and Signs	Comprehensive sub-clause update

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12.15.10	Road Signs – Installation and Maintenance – Install New or Remove and Replace 50 mm Post Sleeve	New clause
12.15.11	Road Signs – Installation and Maintenance – Install Flexible Knuckle Joint Post Mounts Guide Post	New clause
12.15.12	Road Signs – Installation and Maintenance – Roadside Signs – Mounting Selection Table	Comprehensive updates to Table – Roadside Signs – Mounting Selection
12.15.15	Road Signs – Installation and Maintenance – Receipt, Storage, Inventory and Control of Signs	Comprehensive sub-clause update
12.22.1	Cattle Grids – Grid Maintenance	Comprehensive sub-clause update
12.23.4	Road Safety Barriers – Steel Beam Guardrail System - Installation	Minor updates
12.24	Road Safety Barriers – Steel Wire Rope System	Delineator specifications added from Steel Beam Guardrail System – Installation sub-clause
12.27	Contractor's Personnel	Comprehensive clause update
<b>13 PAVEMENT MARKING MAINTENANCE</b>		
		Comprehensive update to entire work section having content consistent with PAVEMENT MARKING in SSRw
13.2	Definitions	List of definitions placed into table format
13.9	Pavement Marking Conformance Tolerances	Updates to Table – Dimensional Tolerances for Pavement Markings
<b>14 LANDSCAPE MAINTENANCE</b>		
14.4	Definitions	RWA definition deleted as mentioned already in SSCM List of definitions placed into table format
14.6	Intersection Sight Lines	Minor updates
<b>15 SLASHING AND WEED CONTROL</b>		
15.4	Definitions	Several definitions deleted as mentioned already in SSCM List of definitions placed into table format
15.8.1	Slashing – Slashing Operations	Added requirements for vegetation clearing around guard rails
15.10.1	Vegetation Control – Vegetation Control Operations	Added requirements for vegetation clearing around guard rails
15.10.5	Vegetation Control – Personnel Handling Chemicals	Sub-clause updated to be consistent with Personnel Handling Chemicals sub-clause in AERODROME AND AEROPLANE LANDING AREAS Maintenance work section
15.10.13	Vegetation Control – Aerodromes and ALAs	Text updated so that vegetation control is applicable to both aerodromes and ALAs
<b>16 TRAFFIC SIGNALS AND INTELLIGENT TRANSPORT SYSTEMS MAINTENANCE</b>		

CLAUSE		CHANGE
		Change in colour description from amber light to yellow light Changes to clause numbering
16.3	Standards and Publications	Comprehensive clause update
16.4	Definitions	Six definitions deleted as they were already mentioned in MISCELLANEOUS PROVISIONS Definition for ASPECT added List of definitions placed into table format
16.8	Civil Standard Drawings	Comprehensive clause update with list of CS drawings consistent with SSRw
16.25	Maintenance of Red Light and Speed Detection Cameras	New clause
16.26	Maintenance of Traffic Counting Stations	New clause
16.32	Traffic Signal and ITS Locations and Ownership - Darwin	Minor updates
16.33	Traffic Signal and ITS Locations and Ownership - Alice Springs	Minor updates
<b>17 STREET LIGHTING MAINTENANCE</b>		
17.5	Scope of Works	Comprehensive clause update
<b>18 STREET SWEEPING</b>		
		Minor updates
18.4	Definitions	CALENDAR DAY and DAY/WORKING DAY/BUSINESS DAY definitions deleted as mentioned already in MISCELLANEOUS PROVISIONS List of definitions placed into table format
<b>19 AERODROME AND AEROPLANE LANDING AREA MAINTENANCE</b>		
		Work section title revised to include ALAs. Comprehensive work section update. Major updates include distinguishing requirements for aerodromes versus aerodrome landing areas and aerodrome reporting officers versus serviceability reporting officers
19.5	Definitions	Definition for ALA added
19.8	Serviceability Reporting Officer (SRO)	New clause
19.11	ALAs and Frequency of Serviceability Inspections	New clause
19.25	Inspections - ALAs	New clause
<b>20 BUS STOP MAINTENANCE</b>		
20.4	Definitions	KPIs definition deleted as mentioned already in MISCELLANEOUS PROVISIONS
20.24	Project Control Plan	Minor clause updates

CLAUSE		CHANGE
20.26.11.8	Bus Stop Maintenance – General Maintenance and Cleaning of Bus Stops – Cleaning Services Classification	Deletion of Table – Bus Stop inspection Hierarchy as the table already presented in Bus Stop Inspection Hierarchy sub-clause Updates to Table – Priorities for Cleaning Works
<b>21 ROAD AND MARINE AMENITY MAINTENANCE</b>		
		Comprehensive work section update. Major updates include detailing requirements for routine, periodic and specific maintenance contracts for various road and marine amenities and expansion of details and requirements for the following items: <ul style="list-style-type: none"> <li>• Maintenance of boat ramps and barge landings</li> <li>• Cleaning and maintenance for jettys, pontoons, fishing platforms and filleting tables</li> <li>• Maintenance for marine growth/ shellfish encrustations on structures</li> </ul>
<b>22 PROTECTIVE COATINGS</b>		
		Minor updates
<b>23 MEASUREMENT AND PAYMENT</b>		
		Minor updates
23.1.4	Miscellaneous Provisions – Establishment	Comprehensive sub-clause update
23.2	Provision for traffic	Comprehensive clause update
23.7.1	Spray Sealing Maintenance – Bitumen Price Adjustment	New sub-clause
23.3	Earthworks and Drainage	Proof rolling of the subgrade explicitly stated as an inclusion in sub-clauses relating to earthworks in fill and select fill
23.6.5	Stabilisation Maintenance – Reconstruction Stabilise Pavement	Updates include added details regarding minimum order sizes for works and negotiated rates
23.6.6	Stabilisation Maintenance – Reconstruction of Pavement Base Course 200 mm and Subgrade 150 mm Depth	Updates include added details regarding minimum order sizes for works and negotiated rates
23.8.5	Bituminous Surface Maintenance – Under Path Growth Inhibitor	New clause
23.10.2	Embankment Protection - Concrete	Sub-clause deleted
23.10.3	Margins	Sub-clause deleted
23.12	Road Furniture Maintenance	Comprehensive clause update
23.13	Pavement Marking Maintenance	Clause updates, including notable updates to Pavement Marking and Raised Reflective Pavement Markers (Temporary Types) sub-clauses
23.15.17	Slashing and Weed Control – Weed Control	Update to Table – Calculation of Final Payment as a Percentage of Scheduled Rate

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23.16.27	Traffic Signal and ITS Maintenance – Install Multi Core Cable – Including and Below 21 Cores	Correct inconsistencies with number of cable cores
23.16.28	Traffic Signal and ITS Maintenance – Install Multi Core Cable – Including 22 Cores to 51 Cores	Correct inconsistencies with number of cable cores
23.19	Aerodrome Maintenance	Comprehensive clause update to distinguish requirements for aerodromes versus aerodrome landing areas and aerodrome reporting officers versus serviceability reporting officers
23.19.9	Aerodrome Maintenance – ALAs and Frequency of Serviceability Inspections	New sub-clause
23.21	Road and Marine Amenity Maintenance	Comprehensive clause updates Repairs to East Arm Boat Ramp Pontoon (Negotiated Rate) sub-clause deleted
23.21.2.8	Road and Marine Amenity Maintenance – Specific Maintenance Operations – Supply and Install new Bin with Bin Stand and Concrete Slab	New sub-clause
<b>24 REFERENCED AUSTRALIAN STANDARDS</b>		
		Date column removed from Table - Reference Australian Standards
<b>25 OTHER REFERENCED AUTHORITIES AND DOCUMENTS</b>		
		No updates
<b>26 ACTS, REGULATIONS, AND CODES</b>		
		No updates
<b>27 CIVIL STANDARD DRAWINGS FOR CIVIL MAINTENANCE</b>		
		Mapping for road maintenance CS drawings CS 3601, CS 3604 and CS 3605 updated to current September 2021 versions
<b>28 NORTHERN TERRITORY CLIMATE ZONES TABLE</b>		
		No updates
<b>29 HOLD POINTS AND WITNESS POINTS SCHEDULES</b>		
		Comprehensive work section update
<b>30 UPDATES OVERVIEW</b>		
		Comprehensive work section update