

Standard Specification for Civil Maintenance v.9.0

Updates Overview

Table – Updates Overview

CLAUSE	CHANGE	
	<p>Renaming of document to Standard Specification for Civil Maintenance to reflect broad scope of its content.</p> <p>Reorganization of order of information at beginning of work sections [General, Cross References, (Australian) Standards and Publications, Definitions].</p> <p>Tables moved from ends of sections to be close to related text in work section.</p> <p>Table numbering deleted.</p> <p>Minor editorial changes, updates to web page URLs, updates to Australian Standards and other cited documents and organizations.</p> <p>Updated Civil Standard Drawings numbers.</p> <p>Some clause renumbering due to addition of new clauses.</p> <p>New work sections – Street Lighting Maintenance, Bus Stop Maintenance, Hold Points and Witness Points Schedules, and Updates Overview.</p>	
01 MISCELLANEOUS PROVISIONS		
1.3	Standards	Personal Protective Equipment standards added
1.4	Definitions	Several new definitions added. URBAN AREAS definition changed
1.6	Environmental Management	References to Standard Specification for Environmental Management added, referring to submission of CEMP, and preservation of cultural and heritage sites and artefacts.
1.9	Volatile substance management	New clause.
1.10	Permits to access land for works on roads	New clause.
1.11	Camp site	Requirements made explicit
1.13.3	Extraction areas locations	New clause
1.13.4	Approvals for extraction areas	New clause
1.13.5	Extraction area management plan	New clause
1.13.7	Process control testing of extracted materials	New clause
1.14	Explosives	New clause
1.15.3	Plant and equipment – Construction plant, equipment, and vehicles	Construction plant, equipment, and vehicles to be in compliance with applicable laws
1.15.7	Plant and equipment - Warning beacons on plant	Requirements made explicit
1.16	Safety	Requirements made explicit
1.18	Utilities and other services passing under existing pavements	New clause – Directional boring required
1.28.1	Warranties	New clause – Requirements detailed

CLAUSE		CHANGE
1.28.2	Certificates of compliance	New clause – Requirements detailed
1.28.3	Compliance – Traceability of components	New clause – Requirements detailed
1.28.4	List of plant and equipment installed	New clause – Requirements detailed
1.28.8	Submission of documents	New clause – documents to be submitted – formats of the documents specified
1.28.9	Time allowed for assessment of documents	Additions to lists of documents
1.29	Contractor's personnel	New clause – Traffic control - KONECT
1.30	Management service and support	New clause
1.32	Emergency road hazard – Urgent attendance	New clause
1.34	Negotiated rate	Additional information
1.35	As constructed information	Provision of As Cons condition precedent to Practical Completion Show design levels and as constructed levels
1.37	Work near areas where crocodiles may be present	New clause
02 PROVISION FOR TRAFFIC		
		Comprehensive update to entire work section
03 EARTHWORKS AND DRAINAGE		
		Minor changes/clarifications, new CS drawing numbers Clauses renumbered
	Formation Width Clearing	Clause deleted
3.5	Earthworks in cut	Inclusion of haulage Requirement to trim and compact added
3.6.1	Earthworks in fill - Description	Expanded description Benching sub-clause deleted
3.7	Fill material	Inclusions added
3.7.2	Standard fill properties	Default values for properties provided
3.8	Removal of excess material	Requirements made explicit
	Preparation and maintenance of subgrade surface	Clause deleted
3.9.1	Earthworks for drainage – Table drains	Trim and compact requirement added
3.9.2	Earthworks for drainage – Table drain offlets	Requirements made explicit
3.9.3	Earthworks for drainage – Table drain blocks	Fill Plasticity Index now the same for all regions.
3.9.4	Earthworks for drainage – Stop berms/levees	Stop berms and levees consolidated. Fill Plasticity Index now the same for all regions.
	Repair existing Formation Width	Clause deleted
3.10	Trim and compact unpaved areas	Requirements made explicit
	Surface formation	Clause deleted
3.12.2	Conformance – Proof rolling	Plant requirements made explicit
04 CONFORMANCE TESTING		
4.4	ITPs	Requirements made explicit

CLAUSE		CHANGE
4.5	Specific tests	Minor amendments
4.9	Tables - Test frequencies, compliance testing	Minor amendments to tables. Changes to Table - Asphalt Testing - Number of cores per lot. Minor changes to sampling frequencies for fresh concrete. New table for surface roughness testing. Table for MDD curing times amended.
4.10	Test results	Interim results no longer required Surface roughness testing added
4.11	Lot testing - Compaction	Soils and asphalt separated Minor changes to dry density ratios table Conformance of compaction for asphalt amended
4.11.2	Conformance of compaction of asphalt	Now based on Air Voids Ratio
4.11.2	Table - Dry density ratios for conformance	Values in column B altered
05 GRADING AND GRAVEL SHEETING		
		Significant changes to entire work section
06 STABILISATION MAINTENANCE		
		Significant changes
6.8	Reconstruction of pavement	New clause
07 SPRAY SEALING MAINTENANCE		
		Minor changes to content, including minor changes to tables
7.5.1	Cycle and pedestrian shared path maintenance	Requirement for under pavement growth inhibitor added
7.6.1	Material requirements - Aggregates	Table - Aggregate Properties - required values changed Aggregate source rock properties requirements made explicit
7.6.5	Cut back bitumen	Table - Cut Back Bitumen Properties modified
7.6.7	Polymer Modified Binder	Requirements modified in Table - PMBs for Sprayed Sealing Applications
7.10	Binder coat requirements	Significant changes
7.15.3	Application spray rates	Explicit reference to AGPT 4K
7.16.1	Aggregate spread rates	New table
7.16.4	Application of aggregate - Self-propelled multi rubber tyred vibrating rollers	New clause
7.21	Bitumen equivalent volumes	New clause. Table moved from Measurement and Payment
08 BITUMINOUS SURFACE MAINTENANCE		
8.13.3	Spreading and laying - Transverse joints	Additional requirements
8.13.4	Spreading and laying - Longitudinal joints	Additional requirements
8.14.1	Compaction - General	Layer depth requirements made explicit
8.15.5	Conformance - Conformance of compaction (Lot testing)	Requirements for cleaning up of contaminated material made explicit

CLAUSE		CHANGE
8.15.6	Conformance – Surface roughness	New Table – Testing sequence for surface roughness for pavement type
09 CONCRETE MAINTENANCE		
		CS drawings updated Tables relocated
9.9.3	Cycle and pedestrian shared path maintenance	Requirement for under pavement growth inhibitor added
10 DRAINAGE MAINTENANCE		
		Corrugated metal structures deleted Detail added to some cross references
10.6.2	Construction of culverts and structures – Excavation	Trench widths – dimension deleted, reference to drawings added
10.6.5	Construction of culverts and structures – Bedding	Bedding depth – dimension deleted, reference to drawings added
10.6.10	Construction of culverts and structures – Backfill	Cement stabilization required for backfill if it is or will be beneath a road pavement
10.11.5	Sub-soil drains – Laying and backfilling	Requirements for backfill above solid wall pipes made explicit
11 PROTECTION WORKS MAINTENANCE		
		Minor editorial changes to terminology to clarify intent
11.6	Geotextile fabrics	Major revision
12 ROAD FURNITURE MAINTENANCE		
		New CS drawing numbers
12.7	Tactile ground surface indicators	New clause
12.8	Fencing	Information re-organized – consolidation of fence related clauses
12.8.6	Fencing – Pedestrian fence	Requirements for pedestrian fences made explicit
12.9	Flexible guide posts	Major revision Submission of test results required
12.10	Steel guide posts	New clause
12.12.1	Road signs – Anti-spear fixings for hazard markers (sight boards)	New clause. New requirements for anti-spear fixings to hazard marker boards
12.12.2	Road signs – Remotely activated road condition information signs	New clause
12.12.3	Road signs – Materials	Manufacture and Posts – additional information
12.14.10	Road signs – Table – Roadside signs – Mounting selection	Term “anchor” changed to “footing” in tables
12.14.10	Road signs – Table – Roadside signs – Mounting selection	Two new sign sizes added to table (750x900 and 1500x800)
12.22	Road safety barriers – Steel beam guardrail	Significant changes – MASH testing required – lists of MASH tested products accessible via a web page
12.23	Road safety barriers – Steel wire rope system	New clause
13 PAVEMENT MARKING MAINTENANCE		
		Comprehensive update to entire work section
14 LANDSCAPE MAINTENANCE		
		Minor updates
14.6	Intersection sight lines	Additional information provided
15 SLASHING AND WEED CONTROL		

CLAUSE		CHANGE
		Minor updates
15.5	Works restricted to road reserve	Requirements made explicit
15.8.3	Opening slash	Requirements made explicit
15.8.4	Full slash	Requirements made explicit
15.8.6	Slash additional areas in the road reserve, aerodromes, park areas	New clause
15.8.7	Slash for weed control	New clause
15.8.8	Slash firebreaks	Requirements made explicit
15.10.2	Vegetation control – Additional requirements for the Darwin region	Requirements made explicit
15.10.13	Vegetation control - Aerodromes	Requirements made explicit
15.11.2	Weed control – Additional requirements for the Darwin region	Requirements made explicit
15.11.4	Weed control – Herbicide selection	KPIs made explicit
16 TRAFFIC CONTROL SIGNALS AND INTELLIGENT TRANSPORT SYSTEMS MAINTENANCE		
		Minor updates
17 STREET LIGHTING MAINTENANCE		
		New work section
18 STREET SWEEPING		
		Minor updates Warning beacons – LED equivalents acceptable
19 AERODROME MAINTENANCE		
		Comprehensive update to entire work section
20 BUS STOP MAINTENANCE		
		New work section
21 ROAD AND MARINE AMENITY MAINTENANCE		
		Minor updates
22 PROTECTIVE COATINGS		
		Minor updates – Re-arranged to match Roadworks
23 MEASUREMENT AND PAYMENT		
		Gravel from pastoral leases at no cost to Principal. Changes to align with altered content in EARTHWORKS AND DRAINAGE and in GRADING AND GRAVEL SHEETING
23.1.6	Miscellaneous provisions – Urgent works attendance	Requirements made explicit
23.1.7	Miscellaneous provisions – Urgent works attendance – EMERGENCY road hazard	Requirements made explicit
23.1.8	Miscellaneous provisions – Gravel pit management plans	New item
23.2	Provision for traffic	Minor changes to terminology
23.6.5	Stabilisation maintenance – Reconstruction stabilise pavement	New item

Standard Specification for Civil Maintenance v.9.0 Updates Overview

CLAUSE		CHANGE
23.6	Stabilisation maintenance – Reconstruction of pavement base course 200mm and subgrade 150mm depth	New item
23.7	Spray sealing maintenance	Clause relocated to align with work section order
23.8	Bituminous surface maintenance	Clause relocated to align with work section order
23.9.2	Concrete maintenance – Cycle/footpaths	Additional item – allow for under pavement growth inhibitor
23.11.9	Protection works maintenance – Embankment protection – Concrete - Maintenance	Requirements made explicit
23.11.10	Protection works maintenance – Margins	Requirements made explicit
23.12.1	Road furniture maintenance – Tactile ground surface indicators	New item
23.12.2	Road furniture maintenance – Fencing	Inclusions made explicit
23.12.3	Road furniture maintenance – Supply and Install Vehicle Movement Barriers/Fences	New item
23.12.4	Road furniture maintenance – Supply Install Cyclist Holding Rail	New item
23.12.5	Road furniture maintenance – Remove Cyclist Holding Rail	New item
23.12.6	Road furniture maintenance – Supply and Install 150 mm Round Recycled Plastic Bollard	New item
23.12.7	Road furniture maintenance – Supply and Install Culvert Crossing Fence	New item
23.12.8	Road furniture maintenance – Remove Culvert Crossing Fence	New item
23.12.9	Road furniture maintenance – Flexible Guide Posts	New item
23.12.10	Road furniture maintenance – Steel Guide Posts	New item
23.12.11	Road furniture maintenance – Work Zone Products and Accessories	Made explicit – not measured separately
23.12.12	Road furniture maintenance – Road signs, manufacture, supply and delivery	Anti-spear fixings included
23.12.18	Road furniture maintenance – Cleaning of signs	New item
23.12.19	Road furniture maintenance – Road asset information	New item
23.12.22	Road furniture maintenance – Road safety barriers	Terminology updated
23.13	Pavement marking maintenance	Comprehensive update

CLAUSE		CHANGE
23.15	Slashing and weed control	Comprehensive update
23.17	Street lighting maintenance	New items
23.19	Aerodrome maintenance	Comprehensive update
23.20	Bus stop maintenance	New items
24 REFERENCED AUSTRALIAN STANDARDS		
		Minor updates
25 OTHER REFERENCED AUTHORITIES AND DOCUMENTS		
		Minor updates
26 ACTS, REGULATIONS, AND CODES		
		Minor updates
27 CIVIL STANDARD DRAWINGS FOR CIVIL MAINTENANCE		
		Updated drawing numbers
28 NORTHERN TERRITORY CLIMATE ZONES TABLE		
		Updated table
29 HOLD POINTS AND WITNESS POINTS SCHEDULES		
		New section
30 UPDATES OVERVIEW		
		New section