

Standard Specification for Civil Maintenance v.9.2

Updates Overview – August 2023

Table – Updates Overview

CLAUSE		CHANGE
<p>Australian Standards in most work sections placed into table format.</p> <p>Minor editorial changes, updates to web page URLs, updates to Australian Standards and other cited documents and organizations.</p> <p>Some clause renumbering due to addition and deletion of clauses.</p> <p>References to DENR replaced with DEPWS.</p>		
01 MISCELLANEOUS PROVISIONS		
1.3	Standards and Publications	Made explicit that Wet Preparation Method is to be used in respect to Test Methods for AS 1289.3.1.1, AS 1289.3.2.1, and AS 1289.3.4.1 where this is an option in an applicable test method.
1.4	Definitions	Definition of AADT, and DEPWS added. Noted that DENR is now known as DEPWS. References to DENR replaced with DEPWS.
1.7	Sub-Surface Investigations Before Excavating	New Clause.
1.16.5	Mobile Plant Machinery	Reference to AS 4742 deleted.
1.17	Safety	Course designation for Prepare to work safely in the construction industry corrected from CPCWHS1001 to CPCWHS1001.
1.31	Management Service and Support	Clause updated.
1.36	As Constructed Information	Link to the home page to access Civil CADD Manual updated.
02 PROVISION FOR TRAFFIC		
Comprehensive update to entire work section having content consistent with PROVISION FOR TRAFFIC in SSRw		
2.1	General	Traffic escort vehicle renamed to Traffic Pilot vehicle.
2.1.3	Dust Suppression Measures	New Sub-clause.
2.1.5	Temporary Road Furniture	New Sub-clause.

CLAUSE		CHANGE
2.3	Definitions	<p>Definitions to new terminologies added:</p> <ul style="list-style-type: none"> - Crossover - Detour - ITP - Side track - TMD - TTM <p>Definitions of the following terminologies updated:</p> <ul style="list-style-type: none"> - Traffic control devices - Traffic controller - Work zone
2.4.8	Site Based Workzone Traffic Management Designer (TMD)	New Sub-clause.
2.4.9	Traffic Pilot Vehicle – Resealing Works	Requirement of a traffic pilot vehicle for resealing works made explicit.
2.4.10	Requirements for Traffic Pilot Vehicle	New Sub-clause.
2.4.12	Signs and Devices Not in Use	Requirement made explicit to cover or remove signs that are not relevant to TGS while the works are being carried out.
2.4.13	Relocation of Regulatory Signs	New Sub-clause.
2.4.14	Reinstatement of Signs and Devices	Updated requirement to check and reinstate signs and devices impacted (moved, blown over or disappeared) by any event
2.4.15	Traffic Incidents	Additional requirement listed to provide to the Superintendent details of site management required due to the incident, any emergency services required, and any first aid provided.
2.5.2	Submission of Traffic Management Plan	Requirement to include details of TMP reviewer made explicit.
2.5.3	Submission of Traffic Guidance Schemes	Selection process of generic TGSs made explicit.
2.7.1	Temporary Traffic Management(TTM) – Independent Third Party Audits	Table - TTM Audit Classes modified to update time frame within which the risks identified must be actioned to correct or reduce risks.
2.7.1.2	High Risks Identified	Sub-clause added to separately address high risks and intolerable risks.
2.10	Amendments to Traffic Management Plans	<p>Clause updated to better explain procedure and document control necessary for amendments to traffic management plans if required.</p> <p>Hold point updated to state that modified TMPs and TGSs must be audited before implementation if required under the contract.</p>

CLAUSE		CHANGE
2.11	Work in Rural Areas	Hold point does not apply for routine night and streetlight inspections.
2.14.1	Works in Progress Signs	Details to be displayed on signs modified to display contractor's information only.
2.14.4	Truck Mounted Attenuators (TMA)	New Sub-clause.
2.15.8	Speed Reductions buffer Zones	New Sub-clause.
2.15.10	Covering of Signs	Sub-clause updated to explain the requirement to cover signs that conflict with TTM signage.
2.18.1	Design and Construction – Witness Point	<p>Following changes made to Side track characteristic for National Highway:</p> <p>Carriageway Width: from 10 m to 9 m</p> <p>Design Speed: from 80 km/h to 60 km/h</p> <p>Pavement Width: from 8 m to 7 m.</p> <p>Requirement to provide pavement marking of centre line of two lane sealed side tracks and crossovers added.</p>
2.26	Restoration	Department of Environment and Natural Resources (DENR) renamed to Department of the Environment, Parks and Water Security (DEPWS).
03 EARTHWORKS AND DRAINAGE MAINTENANCE		
3.3	Standards and Publications	Made explicit that Wet Preparation Method is to be used in respect to Test Methods for AS 1289 series where this is an option in an applicable test method.
3.5.3	Unsuitable Material and/or Weathered Rock	Sub-clause updated.
3.7.3	Subgrade Material	Sub-clause updated to provide more clarification
04 CONFORMANCE TESTING		
4.2	Standards, Codes, Test Methods, and Publications	Made explicit that Wet Preparation Method is to be used in respect to Test Methods for AS 1289.3.1.1, AS 1289.3.2.1, and AS 1289.3.4.1 where this is an option in an applicable test method.
4.3	Definitions	List of definitions placed into table format
4.9	Tables – Test Frequencies, Compliance Testing	Made explicit that Wet Preparation Method is to be used in respect to Test Methods for AS 1289.3.1.1, AS 1289.3.2.1, and AS 1289.3.4.1 where this is an option in an applicable test method.

CLAUSE		CHANGE
4.10	Conformance Testing Results	Made explicit that Wet Preparation Method is to be used for Plasticity Index and Linear Shrinkage where this is an option in an applicable test method.
4.11.2	Conformance of Compaction for Asphalt	Requirement of minimum three tests for each lot greater than 100m ² made explicit.
4.11.3	Tables	Table – Dry Density Ratios for Conformance: Requirement to compact subgrade placed against existing pavement to 98% MMDD made explicit.
05 GRADING AND GRAVEL SHEETING		
		No changes.
06 STABILISATION MAINTENANCE		
		No changes.
07 SPRAY SEALING MAINTENANCE		
7.6.8	Polymer Modified Binder (PMB)	Requirement for minimum 6 hours of digestion period for crumb rubber infilled production made explicit in Table – Properties of Field Produced Crumb Rubber Binders.
7.15.6	Sprayer Run	Sub-clause updated to explain that spraying must cease if there is fault, or blockage in the spray equipment. .
08 BITUMINOUS SURFACE MAINTENANCE		
8.6.1	Pothole Patching	Pothole patching elaborated to better explain the requirements.
09 CONCRETE MAINTENANCE		
		No changes.
10 DRAINAGE MAINTENANCE		
10.6	Construction of Culverts and Structures	Reference to following new Civil Standard Drawings made: CS 3126 for drainage outlet chute behind kerb for rural applications. CS 3127 to CS 3132 for batter setout dimensions and quantities CS 3133 to CS 3140 for traversable culvert grates.
10.6.3	Foundation Compaction below Precast Box Culvert	New sub-clause added to make it consistent with SSRw.
10.8	Inlet and Outlet Channels	Reference to new Civil Standard Drawing CS 3126 made.

CLAUSE		CHANGE
10.11.4	Subsoil Drain Pipe/ Rectangular Section	Minimum criteria for pipe diameter and class updated.
10.11.5	Laying and Backfilling	Minimum grade for laying pipe updated.
10.11.7	Drainage Blanket	New sub-clause.
11 PROTECTION WORKS MAINTENANCE		
11.13.1	General	Sub-clause updated to include requirement to pin reno mattress to concrete when used as protection abutting reinforced concrete floodways.
12 ROAD FURNITURE MAINTENANCE		
12.13.3.6	Anti-Graffiti Coating	Added requirement to ensure that the anti-graffiti products used do not compromise any warranty on the road signs on which anti-graffiti products are used.
12.15.7	Install New Posts and Signs	Requirement to use galvanised steel sleeve when installing sign post in concreted or paved median made explicit. Content updated to reflect method of installation when post sleeves are not used.
13 PAVEMENT MARKING MAINTENANCE		
13.1	Standards and Publications	Following Australian Standards removed: AS 2700S(N14) AS 2700S(Y14) AS 2700S(N61) AS 2700S(Y35)
13.5	Pavement Marking Paint - HoldPoint	Following Australian Standards renamed from: AS 2700S(N14) to AS 2700 AS 2700S(Y14) to AS 2700 AS 2700S(N61) to AS 2700 AS 2700S(Y35) to AS 2700
13.9	Pavement Marking Conformance Tolerances	Updates to Table – Application Times – All Longitudinal and Transverse Pavement Markings.
13.11	Thermoplastic Materials – Hold Point	Clause deleted.
13.12	Audio Tactile Line Marking (ATLM)	Requirement to use cold applied plastic pavement marking materials made explicit.
13.21	Reporting	Clause deleted.
14 LANDSCAPE MAINTENANCE		

CLAUSE		CHANGE
		No changes.
15 SLASHING AND WEED CONTROL		
15.11.4		No changes.
16 TRAFFIC SIGNALS AND INTELLIGENT TRANSPORT SYSTEMS MAINTENANCE		
		No change.
17 STREET LIGHTING MAINTENANCE		
17.3	Standards and Publication	References made to additional Australian Standards and Austroads Guide.
17.4	Definitions and Acronyms	New Clause
17.5	Generally	New Clause
17.6	Sub-Surface Investigations Before Excavating	New Clause
17.7	Utilities and Other Services Passing Under Existing Pavements	New Clause
17.8.1	Columns	Requirement to provide ancillary items such as outreaches, lanterns, luminaires, lamps, controls, cables, and other items required for a complete, functional installation made explicit.
17.8.3	Terrain Category	Requirement updated for streetlight component to be suitable for the wind condition of the area in which they are to be installed as defined in AS/NZS 1170.2, and the local rainfall conditions
17.8.4	Luminaires	Lighting category to be Category V as per AS/NZS 1158.1.1.
17.8.5	Control Equipment	RCD Exemptions on street lights owned, operated, and maintained by DIPL made explicit.
17.9	Solar Street Lighting	New Clause
17.10.3	Trenches	Nominal trench width updated to be 600mm Nominal trench depth updated to be 1200mm Requirement to comply with Utilities and other Services Passing Under Existing Pavements if new services were to cross a pavement made explicit.
17.10.4	Existing Services	Requirement to locate and protect all services and utilities before carrying out any excavation work made explicit. Stated that the Principal will not bear the cost of any damage incurred as a result of the Contractor's failure to locate a service or utility.

CLAUSE		CHANGE
17.11.1	Footings – Concrete	Minimum concrete strength of 20MPa specified.
17.16.1	Testing	Requirement to rectify faults and re-test rectified items at no cost to the Principal made explicit.
17.16.2	Commissioning	Requirement to check if the lighting is functioning properly and to rectify any faults at no cost to the Principal made explicit.
17.16.3	Compliance	New sub-clause
17.18	Completion	New clause
18 STREET SWEEPING		
18.5	Frequency of Works	Clause updated.
18.6	Scheduled Sweeping Program	Clause updated.
18.7.7	Sweeping of Kerbs, Roads and Car Parks	Sweeping of nominated road to include sweeping of bridge decks and any flyovers associated with on/off ramp sweeping.
19 AERODROME AND AEROPLANE LANDING AREA MAINTENANCE		
		No changes.
20 BUS STOP MAINTENANCE		
20.18.1	Before you Dig Australia	Clause updated.
21 ROAD AND MARINE AMENITY MAINTENANCE		
		Minor updates.
22 PROTECTIVE COATINGS		
22.21	Tables – Protective Coating Specifications – Systems and Approved Products	Tables PS1 to PS9 updated to reflect Hempel and Wattyl merge.
23 MEASUREMENT AND PAYMENT		
		Minor updates
23.1.4	Miscellaneous Provisions – Establishment	Comprehensive sub-clause update
23.1.11	Management Service and Support	New sub-clause.
23.8.1	Bituminous Surface Maintenance – Pothole Patching, Edge Patching and Regulation Patching	Clause updated to include allowance for supplying, placing, spreading and compacting of materials.

CLAUSE		CHANGE
23.10.9	Drainage Maintenance – Drainage Blanket	New sub-clause
23.12.1.1	Road Furniture Maintenance – Establishment	Sub-clause updated.
23.18.1	Scheduled Works – Sweeping of Intersections, Median Breaks and Kerbed Sections of Roads	Sub-clause update
23.18.2	Scheduled Works – Sweeping of Cycleways and Footpaths	Sub-clause update
23.18.3	Unscheduled Works	New Sub-clause.
23.18.5	Urgent Works	Sub-clause deleted
23.18.7	Manual Sweeping of Medians, Splitter Islands, etc.	Clause update.
23.18.8	Hot Water High Pressure Cleaning	New sub-clause.
23.18.10	Supply and Use of Water	New sub-clause

CLAUSE	CHANGE
24 REFERENCED AUSTRALIAN STANDARDS	
<p>AS 4742 removed from the table.</p> <p>Made explicit that Wet Preparation Method is to be used in respect to Test Methods for AS 1289.3.1.1, AS 1289.3.2.1, and AS 1289.3.4.1 where this is an option in an applicable test method.</p>	
25 OTHER REFERENCED AUTHORITIES AND DOCUMENTS	
	No updates
26 ACTS, REGULATIONS, AND CODES	
	No updates
27 CIVIL STANDARD DRAWINGS FOR CIVIL MAINTENANCE	
<p>Following new Civil Standard drawings added to the table:</p> <p>CS 3126 Drainage Outlet Chute - Rural Applications - Behind Kerb</p> <p>CS 3127 RCP - Up To 1800 Dia & 1v:6h Batter Setout Dimensions & Quantities - 0° to 35° Skew</p> <p>CS 3128 RCP - Up To 1800 Dia & 1v:6h Batter Setout Dimensions & Quantities - 36° to 45° Skew</p> <p>CS 3129 RCBC - Up To 1800mm Height & 1v:6h Batter Setout Dimensions & Quantities - 0° to 35° Skew</p> <p>CS 3130 RCBC - Up To 1800mm Height & 1v:6h Batter Setout Dimensions & Quantities - 36° to 45° Skew</p> <p>CS 3131 SLBC - Up To 1800mm Height & 1v:6h Batter Setout Dimensions & Quantities - 0° to 35° Skew</p> <p>CS 3132 SLBC - Up To 1800mm Height & 1v:6h Batter Setout Dimensions & Quantities - 36° to 45° Skew</p> <p>CS 3133 Traversable Culvert Wingwall & Grate General Notes & Modified Wingwall Setout</p> <p>CS 3134 Traversable Culvert Grate (Max 2m Span) 1v:4h Batter - Frame & Connection Details</p> <p>CS 3135 Traversable Culvert Grate (Max 2m Span) 1v:6h Batter - Frame & Connection Details</p> <p>CS 3136 Traversable Culvert Grate (Max 4m Span) 1v:4h Batter - Frame & Connection Details</p> <p>CS 3137 Traversable Culvert Grate (Max 4m Span) 1v:6h Batter - Frame & Connection Details</p> <p>CS 3138 Traversable Culvert Grate Grate Setout References</p> <p>CS 3139 Traversable Culvert Wingwall & Grate Setout Dimensions - Max 2m Span</p> <p>CS 3140 Traversable Culvert Wingwall & Grate Setout Dimensions - Max 4m Span</p>	
28 NORTHERN TERRITORY CLIMATE ZONES TABLE	
	No updates
29 HOLD POINTS AND WITNESS POINTS SCHEDULES	
	Comprehensive work section update

CLAUSE	CHANGE
30 UPDATES OVERVIEW	
	Comprehensive work section update