

Standard Specification for Roadworks v5.3– Overview of Updates – August 2023

STANDARD SPECIFICATION FOR ROADWORKS V5.3

The significant updates to the Standard Specification for Roadworks V5.3 are shown below.

FEEDBACK

If you have any suggestions for improvement, such as additional or modified text for the Roadworks specification, please contact the Manager Specification Services via specification.services@nt.gov.au

UPDATES

Table – Overview of Updates to Roadworks Specifications – SSRw v.5.3 – 10 August 2023		
CLAUSE		CHANGE
01 MISCELLANEOUS PROVISIONS		
1.1	Standards, Acts, and Publications – Table – Australian Standards	In respect to Test Methods AS 1289.3.1.1, AS 1289.3.2.1, and AS 1289.3.4.1, Wet Preparation Method is to be used where this is an option in an applicable test method
04 EARTHWORKS		
4.2	Standards and Publications	In respect to Test Methods AS 1289.3.1.1, AS 1289.3.2.1, and AS 1289.3.4.1, Wet Preparation Method is to be used where this is an option in an applicable test method
05 CONFORMANCE TESTING		
5.2	Standards, Codes, and Test Methods - Table - Australian Standards	In respect to Test Methods AS 1289.3.1.1, AS 1289.3.2.1, and AS 1289.3.4.1, Wet Preparation Method is to be used where this is an option in an applicable test method
5.9	Table – Testing frequencies for soils – Parts 1 & 3 Table – Testing and reporting completion times – Part 1	
25 REFERENCED AUSTRALIAN STANDARDS		
	Table – Referenced Australian Standards	In respect to Test Methods AS 1289.3.1.1, AS 1289.3.2.1, and AS 1289.3.4.1, Wet Preparation Method is to be used where this is an option in an applicable test method

Table – Overview of Updates to Roadworks Specifications – SSRw v.5.3 – 21 July 2023		
CLAUSE		CHANGE
02 PROVISION FOR TRAFFIC		
2.4.10	Requirement for Traffic Pilot Vehicle	Made explicit that: <ul style="list-style-type: none"> - the first and second coat application for spray sealing for new works are not resealing works. - it is required to provide a pilot vehicle during application of second coat if it is applied under traffic. Criteria listed for the requirement to provide traffic pilot vehicle to guide traffic through a work site.

Table – Overview of Updates to Roadworks Specifications – SSRw v.5.3 – 21 July 2023		
CLAUSE		CHANGE
8 SPRAY SEALING		
8.4.8	Polymer Modifier Binder	Requirement for minimum 6 hours of digestion period for crumb rubber infilled production made explicit in Table – Properties of Field Produced Crumb Rubber Binders.
12 DRAINAGE WORKS		
12.6	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.
12.8	Inlet and Outlet Channels	Reference to new Civil Standard Drawing CS 3126 made.
21 STREET LIGHTING		
21.3	Standards and Publication	References to additional Australian Standards and Austroads Guide made.
21.4	Definitions and Acronyms	New Clause
21.5	Generally	New Clause
21.6	Sub-Surface Investigations Before Excavating	New Clause
21.7	Utilities and Other Services Passing Under Existing Pavements	New Clause
21.8.1	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.
21.8.3	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
21.8.4	Luminaires	Lighting category to be Category V as per AS/NZS 1158.1.1.
21.8.5	Control Equipment	RCD Exemptions on street lights owned, operated, and maintained by DIPL made explicit.
21.9	Solar Street Lighting	New Clause
21.10.3	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.
21.10.4	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.
21.11.1	Footings – Concrete	Minimum concrete strength of 20MPa specified.
21.16.1	Testing	Requirement to rectify faults and re-test rectified items at no cost to the Principal made explicit.
21.16.2	Commissioning	Requirement to check if the lighting is functioning properly and to rectify any faults at no cost to the Principal made explicit.
21.16.3	Compliance	New sub-clause
21.18	Completion	New clause

Table – Overview of Updates to Roadworks Specifications – SSRw v.5.3 – 21 July 2023	
CLAUSE	CHANGE
28 CIVIL STANDARD DRAWINGS FOR ROADWORKS	
Following new Civil Standard drawings added to the table:	
CS 3126 Drainage Outlet Chute - Rural Applications - Behind Kerb	
CS 3127 RCP - Up To 1800 Dia & 1v:6h Batter Setout Dimensions & Quantities - 0° to 35° Skew	
CS 3128 RCP - Up To 1800 Dia & 1v:6h Batter Setout Dimensions & Quantities - 36° to 45° Skew	
CS 3129 RCBC - Up To 1800mm Height & 1v:6h Batter Setout Dimensions & Quantities - 0° to 35° Skew	
CS 3130 RCBC - Up To 1800mm Height & 1v:6h Batter Setout Dimensions & Quantities - 36° to 45° Skew	
CS 3131 SLBC - Up To 1800mm Height & 1v:6h Batter Setout Dimensions & Quantities - 0° to 35° Skew	
CS 3132 SLBC - Up To 1800mm Height & 1v:6h Batter Setout Dimensions & Quantities - 36° to 45° Skew	
CS 3133 Traversable Culvert Wingwall & Grate General Notes & Modified Wingwall Setout	
CS 3134 Traversable Culvert Grate (Max 2m Span) 1v:4h Batter - Frame & Connection Details	
CS 3135 Traversable Culvert Grate (Max 2m Span) 1v:6h Batter - Frame & Connection Details	
CS 3136 Traversable Culvert Grate (Max 4m Span) 1v:4h Batter - Frame & Connection Details	
CS 3137 Traversable Culvert Grate (Max 4m Span) 1v:6h Batter - Frame & Connection Details	
CS 3138 Traversable Culvert Grate Grate Setout References	
CS 3139 Traversable Culvert Wingwall & Grate Setout Dimensions - Max 2m Span	
CS 3140 Traversable Culvert Wingwall & Grate Setout Dimensions - Max 4m Span	

STANDARD SPECIFICATION FOR ROADWORKS V5.2

The significant updates to the Standard Specification for Roadworks V5.2 are shown below.

FEEDBACK

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UPDATES

Table – Overview of Updates to Roadworks Specifications – 01 July 2023	
CLAUSE	CHANGE
Australian Standards tabulated in most work sections. Information on using the latest standards and their amendments and supplements added. Note: Clause numbering in some work sections have changed as a result of addition of new clause.	
01 MISCELLANEOUS PROVISIONS	
1.1	Standards, Acts and Publication Designation for the following Australian Standards changed from: AS/NZS 4399 to AS 4933 AS/NZS 4602.1 to AS 4602.1. Made explicit that AS 4742 is now withdrawn and superseded by AS ISO 9533.
1.2	Definitions Noted that DENR is now known as DEPWS. Definition of DEPWS (Department of the Environment, Parks and Water Security) added.
1.4	Sub-Surface Investigations Before Excavating New clause.
1.13.7	Stream Sites Department of the Environment and Natural Resources (DENR) renamed to Department of the Environment, Parks and Water Security (DEPWS)
1.13.8	Inspection DENR renamed to DEPWS.
1.15.4	Mobile Plant Machinery – Broadband Alarm ISO 9533 renamed to AS ISO 9533.

Table – Overview of Updates to Roadworks Specifications – 01 July 2023		
CLAUSE		CHANGE
1.16	Safety	Course designation for Prepare to work safely in the construction industry corrected from CPCCWHS1001 to CPCWHS1001
02 PROVISION FOR TRAFFIC		
2.1	General	Year date after AS 1742.3 deleted. Traffic escort vehicle renamed to Traffic pilot vehicle. Requirement for traffic pilot vehicle for resealing works under traffic made explicit. Requirement for Traffic pilot vehicle for other works added.
2.1.2	Dust Suppression Measures	New sub-clause.
2.1.5	Temporary Road Furniture	New sub-clause.
2.2	Standards and Publications	Designation for the following Australian Standards changed from: AS NZS 1906.1 to AS 1906.1. AS/NZS ISO 31000 to AS ISO 31000.
2.3	Definitions	Definitions of Crossover, Detour, Side track, TMD and TTM added. Definition of Traffic control devices, Traffic controller, and work zone modified.
2.4.2, 2.4.3	Traffic Management Personnel	WZ1 now referred to as WZ1/TMD
2.4.8	Site Based Workzone Traffic Management Plan Designer (TMD)	New sub-clause.
2.4.9	Traffic Pilot Vehicle – Reasealing Works	Requirement of traffic pilot vehicle for resealing work made explicit. Other information including traffic escort vehicle removed.
2.4.10	Requirement for Traffic Pilot Vehicle	New sub-clause.
2.4.11	Configuration of Traffic Pilot Vehicles and Driver Capabilities	New sub-clause.
2.4.12	Signs and Devices Not in Use	Instructed to cover or remove signs that are not relevant to TGS while works are being undertaken
2.4.13	Relocation of Regulatory Signs	New sub-clause.
2.4.14	Reinstatement of Signs and Devices	Sub-clause modified.
2.4.15	Traffic Incidents	Requirement to provide additional details regarding site management, emergency services and first aid listed.
2.5.2	Submission of Traffic Management Plan	Requirement to include details of the TMD and the reviewer made explicit.
2.5.3	Submission of Traffic Guidance Schemes	Sub-clause modified to make the selection process of generic TGSs 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	New sub-clause added to separately address high and intolerable risks
2.10	Amendments to Traffic Management Plans – Hold Point	Departmental Contact Officer now referred to as Superintendent's Representative. Modification of TGSs during works if required or requested by nominated Superintendent's Representative made explicit. Hold Point modified to state that modified TMPs and TGSs must be audited before implementation if required under the contract.

Table – Overview of Updates to Roadworks Specifications – 01 July 2023		
CLAUSE		CHANGE
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 Zone	New sub-clause.
2.15.10	Covering of Signs	Sub-clause updated
2.18.1	Design and Construction – Witness Point	Following changes made to Side track characteristic for National Highway: Carriageway Width: from 10 m to 9 m Design Speed: from 80 km/h to 60 km/h Pavement Width: from 8 m to 7 m. Requirement to provide pavement marking of centre line of two lane sealed side tracks and crossovers added.
2.26	Restoration	Department of the Environment and Natural Resources (DENR) renamed to Department of the Environment, Parks and Water Security (DEPWS)
03 CLEARING, GRUBBING AND REHABILITATION		
3.7	Scarifying of Existing Roads	New content added on demolished seal to either bury, reuse or legally dispose of as applicable.
04 EARTHWORKS		
4.4.4	Unsuitable Material Below Subgrade Surface Other Than Rock	Instruction about treatment of unsuitable material added.
4.7	Subgrade	Preparation and Maintenance of Subgrade Surface clause replaced by Subgrade clause.
05 CONFORMANCE TESTING		
5.2	Standards, Codes and Test Methods	Designation for the following Australian Standards updated from: AS/NZS 2341.4 to AS 2341.4
5.9	Tables – Test Frequencies, Compliance Testing	Designation for the following Australian Standards updated from: AS 2341.2 to AS/NZS 2341.2 AS 2891.5 to AS/NZS 2891.5 AS 2891.8 to AS/NZS 2891.8 AS 2891.9 to AS/NZS 2891.9
06 PAVEMENTS AND SHOULDERS		
6.4.3	On-Formation Mixing and Placing	Instruction added to not use sheep foot or pad foot type rollers for compaction of the base course.
07 STABILISATION AND MODIFICATION		
7.1	Standards and Publications	AS 3550.4 added in the table and noted that it has been withdrawn but is available to access.
08 SPRAY SEALING		
8.1	Standards, Codes, Guides, Test Methods, and Acts	Designation for the following Australian Standards changed from: AS 1906.3 to AS/NZS 1906.3 Noted that AS 2341.6 has been withdrawn but is available to access.
8.2	Definitions	Pa.s removed from the table.
8.13.6	Sprayer run	Detail added to requirement to cease spraying if nozzles malfunction.
8.21.3	Basis of Adjustment	Base scheduled bitumen price (Pb) description updated to be inclusive of GST.

Table – Overview of Updates to Roadworks Specifications – 01 July 2023		
CLAUSE		CHANGE
09 DENSE GRADED ASPHALT		
-	-	No changes.
10 SLURRY SURFACING		
-	-	No changes.
11 MISCELLANEOUS CONCRETE WORKS		
11.1	Standards and Publications	Noted that AS 2876 has been withdrawn but is available to access.
12 DRAINAGE WORKS		
12.6.3	Foundation Compaction below Precast Box Culvert	New clause.
12.11.1.4	Subsoil Drain Pipe	Minimum criteria for pipe diameter and class updated.
12.11.1.5	Laying and Backfilling	Minimum grade for laying pipe added.
12.11.2	Drainage Blanket	New sub-clause.
13 PROTECTION WORKS		
13.10.1	General	Requirement added to pin reno mattress to concrete as per detail 1 of CS 3124 when used as protection abutting reinforced concrete floodways
14 ROAD FURNITURE AND TRAFFIC CONTROL DEVICES		
14.2	Standards and Publications	Designation for the following Australian Standards changed from: AS 1428.4.1 to AS/NZS 1428.4.1 AS 1604.1 to AS/NZS 1604.1 AS/NZS 1906.1 to AS 1906.1
14.9.7	Installation	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.
15 BOAT RAMPS AND BARGE LANDINGS		
-	-	No changes.
16 PAVEMENT MARKING		
16.1	Standards and Publications	Designation for the following Australian Standards changed from: AS/NZS 1906.1 to AS 1906.1 AS 2890.1 to AS/NZS 2890.1 AS 2890.6 to AS/NZS 2890.6 Following Australian Standards removed: AS 2700S(N14) AS 2700S(Y14) AS 2700S(N61) AS 2700S(Y35)
16.3	Scope	Scope of Pavement marking treatments amended.
16.5	Pavement Marking Paint – Hold Point	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

Table – Overview of Updates to Roadworks Specifications – 01 July 2023		
CLAUSE		CHANGE
16.9	Pavement Marking Conformance Tolerances	Table – Application Times – All Longitudinal and Transverse Pavement Markings updated.
16.10	Field Testing	Requirement of the Superintendent to perform random reflectivity testing deleted.
16.11	Thermoplastic Materials – Hold Point	Clause deleted.
16.12	Audio Tactile Line Marking (ATLM)	Requirement to use cold applied plastic pavement marking materials made explicit.
16.16	Resurfacing Contracts	Clause deleted.
16.17	Reporting – Hold Point	Clause deleted.
17 LANDSCAPE		
-	-	No changes
18 DUCTING AND CONDUITS		
18.1	Cross references	Reference to Services to Cross Below Existing Pavements updated to refer to Utilities and Other Services Passing Under Existing Pavements.
19 TRAFFIC CONTROL SIGNALS AND INTELLIGENT TRANSPORT SYSTEMS		
19.1	Cross references	Reference to Services to Cross Below Existing Pavements updated to refer to Utilities and Other Services Passing Under Existing Pavements.
19.2.1	Australian Standards	Designation for the following Australian Standards changed from: AS/NZS 2144 to AS 2144
20 TRAFFIC COUNTING STATIONS		
20.1	Cross references	Reference to Services to Cross Below Existing Pavements updated to refer to Utilities and Other Services Passing Under Existing Pavements.
21 STREET LIGHTING		
21.1	Cross references	Reference to Services to Cross Below Existing Pavements updated to refer to Utilities and Other Services Passing Under Existing Pavements.
22 DIRECTIONAL BORING		
22.1	Cross references	Reference to Services to Cross Below Existing Pavements updated to refer to Utilities and Other Services Passing Under Existing Pavements.
23 PROTECTIVE COATINGS		
23.1.1	Standards	Noted that AS 1678.3A1 has been withdrawn but available to access.
23.19	Tables – Protective Coating Specifications – Systems and Approved Products	Tables PS1 to PS9 updated to reflect Hempel and Watty/ merge.
24 MEASUREMENT AND PAYMENT		
24.2.5	Temporary Traffic Management (TTM) – Independent Third Party Audits	Clause title updated from Workzone Traffic Management (WZTM)_ - Independent Third Party Audits to Temporary Traffic Management (TTM) – Independent Third Party Audits
24.4.8	Subgrade Layer (150 mm)	Clause title updated from Preparation and Maintenance of Subgrade Surface to Subgrade Layer (150 mm) .

Table – Overview of Updates to Roadworks Specifications – 01 July 2023		
CLAUSE		CHANGE
24.12.2	Supply, Load, Transport, Bed, Lay and Backfill Culverts	Made explicit that the clause relates to measurement of culverts only and does not include other structure. Requirement added for making allowance for bedding and haunching for RCPs.
24.12.3	Concrete Headwalls, Headwalls with Wing Walls and Aprons, Pits, and Other Structures	Sub-clause heading and content updated to include Aprons.
24.12.8	Drainage Blanket	New item.
24.16.1	Establishment	Sub-clause heading updated Clause content deleted/ updated to generalise mobilisation and demobilisation of urban and rural areas.
24.16.2	Co-ordination and Setting Out	Clause deleted.
24.16.8	Pavement Marking – Resealing Contracts	Clause deleted.
25 REFERENCED AUSTRALIAN STANDARDS		
<p>Following Australian Standards added to table: AS 1141.12 – Methods for sampling and Testing Aggregates: Material finer than 75 µm in aggregates (by washing). AS 1141.25.2 – Methods for sampling and testing aggregates: degradation factor: coarse aggregate. AS 1141.23.3 – Methods for sampling and testing aggregates: degradation factor: fine aggregate. AS/NZS 2341.23 – Methods of testing bitumen and related roadmaking products: determination of residue from evaporation. AS/NZS 3582.1 – Supplementary cementitious materials for use with Portland and blended cements – Fly ash AS 2700S series deleted as it is now redundant and incorporated in AS 2700</p> <p>Designation for following Australian Standards updated from: AS 1428.4.1 to AS/NZS 1428.1 AS/NZS 1580 to AS 1580 AS/NZS 2210 (set) to AS 2210 (series) AS/NZS 2341.4 to AS 2341.4 AS 2341.18 to AS/NZS 2341.18 AS 2890.1 to AS/NZS 2890.1 AS/NZS 4399 to AS 4399 AS/NZS 4602.1 to AS 4602.1 AS/NZS ISO 31000 to AS ISO 31000</p>		
26 OTHER REFERENCED AUTHORITIES AND DOCUMENTS		
No changes.		
27 ACTS, REGULATIONS, CODES, AND AUTHORITIES		
27.3	Authorities	Department of the Environment and Natural Resources (DENR) renamed to Department of the Environment, Parks and Water Security (DEPWS)
28 CIVIL STANDARD DRAWINGS FOR ROADWORKS		
No changes.		
29 NORTHERN TERRITORY CLIMATIC ZONES TABLE		
No changes.		
30. HOLD POINTS AND WITNESS POINTS SCHEDULES		
Updated		