

05 July 2019

OVERVIEW OF UPDATES

MASTER SPECIFICATIONS FOR ROADWORKS, AND STANDARD SPECIFICATION FOR ROADWORKS V 4.0 – JULY 2019

The significant updates to the Master Specifications for Roadworks, and to the Standard Specification for Roadworks V 4.0 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, Telephone 8946 5021, or e-mail to specification.services@nt.gov.au

UPDATES

Table -	Overview of Updates to Roa	dworks Specifications	
CLAUSE	<u> </u>	CHANGE	
Minor ed	litorial changes, updates to we	eb page URLs, updates to Australian Standards and	
other cite	ed documents and organizatio	ns, updated Civil Standard Drawings numbers.	
	ause renumbering due to addi		
01 MISC	ELLANEOUS PROVISIONS		
1.1	Standards	Personal Protective Equipment standards added	
1.2	Definitions	Several new definitions added	
1.4	Environmental Management	References to Standard Specification for Environmental Management added, referring to submission of CEMP, and preservation of cultural and heritage sites and artefacts.	
1.6	Volatile substance management	New clause.	
1.7	Permits to access land for works on roads	New clause.	
1.8	Camp site	Requirements made explicit	
1.12	Plant and equipment	Warning beacons on plant – requirements made explicit	
1.13	Safety	Requirements made explicit	
1.22	As constructed information	Provision of As Cons condition precedent to Practical Completion Show design levels and as constructed levels	
1.24	Work near areas where crocodiles may be present	New clause	
1.25	Time allowed for assessment of documents	Additions to lists of documents	
02 PRO	VISION FOR TRAFFIC		
		Comprehensive update to entire work section	
03 CLEA	ARING, GRUBBING AND REI		
		Minor updates	
04 EAR1	THWORKS		
		Minor changes/clarifications	
4.1	General	Gravel from pastoral leases at no cost to Principal	
4.3	Definitions	Some definitions amended/clarified	
4.4.2	Earthworks in cut	Requirements for excess material made explicit	
4.5	Earthworks in fill	Minor change to preparation prior to filling	
4.6.2	Standard fill	Default values for properties provided	
4.7	Preparation and maintenance of subgrade surface	Requirements made explicit	

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Table - C	Overview of Updates to Roa	dworks Specifications
CLAUSE	`	CHANGE
4.8.2	Earthworks for drainage -	Fill Plasticity Index now the same for all regions.
	Levees	
4.8.4	Table drain offlets	Requirements made explicit
4.8.5	Earthworks for drainage – Table drain blocks	Fill Plasticity Index now the same for all regions.
4.16.3	Conformance – Proof rolling	Plant requirements made explicit
05 CONF	ORMANCE TESTING	
5.9	Test frequencies, compliance testing	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.
5.10	Test results	Interim results no longer required Surface roughness testing added
5.11	Lot testing - Compaction of soils	Asphalt deleted Minor changes to dry density ratios table Conformance of compaction for asphalt amended
5.11.2	Conformance of compaction of asphalt	Now based on Air Voids Ratio
	Table – Dry density ratios for conformance	Values in column B altered
06 PAVE	MENTS AND SHOULDERS	
		Significant changes
6.7	Pavement acceptance	Requirements made explicit
N7 STAR	 LISATION AND MODIFICA	FION
UI STAD		Significant changes
		Scope broadened
		Requirements made explicit
08 SPRA	Y SEALING	
		Minor changes to content, including minor changes to tables
	Material requirements	Flakiness Index changed
8.4.1	Material requirements - Aggregates	Aggregate source rock properties requirements made explicit
		Supply of aggregate deleted
8.4.5	Cut back bitumen	Table – Cut back bitumen properties modified
8.6	Final preparation of pavement surface	Requirements modified
8.8.2	Binder coat requirements	Cut back for Prime changed
8.8.4	Binder coat - PMBs	Requirements modified slightly
8.8.5	Tender quantities	Requirements modified
8.11	Precoating aggregate	Requirements made explicit
8.13.4	Spraying – Preparation for sprayer run	Requirements made explicit
8.15.4	Application of aggregate – Vibrating self-propelled rollers	New clause added
8.17	Waste material	New Hold Point added
8.20.1	Bitumen equivalent volumes	Table moved from Measurement and Payment
09 DENS	E GRADED ASPHALT	
9.5.4	Bituminous binder	Table – PMBs for asphalt – additional property test added
9.7.4	Surface preparation – Shape and surface roughness	Clause relocated

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CLAUSE CHANGE Tables deleted – relocated to 9.13 Conformance 9.10 Spreading Changes to Laying Pattern, and 3 joints clauses Several minor changes and addition of tables relocated to 9.13 Conformance Several minor changes and addition of tables relocated from 9.8.5		adworks Specifications	Overview of Updates to Roa	Table - C
9.7.5 Surface preparation — Temporary works 9.10 Spreading Changes to Laying Pattern, and 3 joints clauses 9.12 Conformance Several minor changes and addition of tables relocated from 9.8.5 10.9 Application Damaged work to be replaced irrespective of wheth rain was expected or not. 10.11 Surplus, waste and defective materials Disposal to be at a legal waste disposal site 10.13 Records Original Daily Record Sheets not required – copies be forwarded. 11.1 Standards AS 2349 and AS 2350 replaced by AS/NZS 2350.1 Corrugated metal structures deleted 11.4.1 Ready-mix concrete Required properties presented in table 11.9 Conformance Tolerances presented in table 12.5.2 Materials – Rubber ring joint pipes 12.5.4 Materials – Bedding Plasticity Index requirement made explicit 12.6.7 Construction of culverts and structures – Laying pipe culverts 12.6.10 Construction of culverts and structures – Backfill 12.11.1 Subsoil drains – Filter material Subsoil drains – Filter material 12.11.2 Subsoil drains – Filter material 12.11.3 PROTECTION WORKS Minor editorial changes to terminology to clarify inte 14.6.6 Fencing – Temporary site safety fence Road signs – Anti-spear New clause New requirements for anti-spear fixing: Requirements for site safety fences made explicit Requirements for site safety fences made explicit Requirements for pedestrian fences made explicit		<u> </u>	<u> </u>	
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(sight boards) hazard marker boards	xings to	New clause. New requirements for anti-spear fixings hazard marker boards	fixings for hazard markers	14.7.2
14.7.3 Road signs - Materials Term "anchor" changed to "footing" in tables	·	Term "anchor" changed to "footing" in tables		14.7.3
14.7.3 Road signs - Materials Two new sign sizes added to table (750x900 and 1500x800)	ıd		_	
15 PAVEMENT MARKING			MENT MARKING	15 PAVE
Comprehensive update to entire work section		Comprehensive update to entire work section		40
16 LANDSCAPE		Table Conductionalization of a set of A L L L	SCAPE	16 LAND
16.3 Materials Table - Seed mix application rate north of Adelaide River changed	ıide			16.3
16.7 Batter protection by hydroseeding New clause		New clause	hydroseeding	
17 DUCTING AND CONDUITS		T	ING AND CONDUITS	17 DUCT
Minor updates				
18 TRAFFIC CONTROL SIGNALS AND INTELLIGENT TRANSPORT SYSTEMS		IND INTELLIGENT TRANSPORT SYSTEMS	FIC CONTROL SIGNALS AN	18 TRAF

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		Minor updates
19 TRAF	FIC COUNTING STATIONS	
		Minor updates
20 STRE	ET LIGHTING	•
		Minor updates
21 DIRE	CTIONAL BORING	•
		Comprehensive update to entire work section
22 PRO	TECTIVE COATINGS	1
		Minor updates
23 MEAS	SUREMENT AND PAYMENT	
		Minor updates
23.4.4	Earthworks in fill	Allow for preparation prior to filling and benching
23.6	Pavements and shoulders	Headings reworded
	Reconstruction and	
23.6.2	widening of existing	Overlay and rework measured in square metres
20.0.2	pavements	Svoriay and rework measured in equal of metros
23.6.4	Pavement acceptance	New item
20.0.1	Spray sealing – Prime,	
23.8.3	enrichment, emulsion,	Table of equivalent volumes relocated to SPRAY
20.0.0	primer seal and seal coats	SEALING
	Dense graded asphalt –	
23.9.4	Rate of payment	Level 4 adjustment rate deleted from table
20.5.4	adjustments	Level 4 adjustment rate deleted from table
	Dense graded asphalt –	
23.9.5	Surface roughness	Lot subdividing permitted if IRI exceeds 2.5
23.15	Pavement marking	Comprehensive update
	RENCED AUSTRALIAN STA	
Z-7 IX.E.I E		Minor updates
25 OTHE	R REFERENCED AUTHORI	
23 0 1111		Minor updates
26 ACTS	S, REGULATIONS, CODES, A	
ZU ACTO	REGULATIONS, CODES, A	Minor updates
27 CIVII	│ . STANDARD DRAWINGS FO	
ZI CIVIL	STANDARD DRAWINGS FO	Updated drawing numbers
20 NOD	│ THERN TERRITORY CLIMAT	
ZO NUK	THERN TERRITORY CLIMAT	
20 HOLE	D POINTS AND WITNESS PO	No change
Z9 HULL		NIN I O OUTEDULEO
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	and web page only, not included in TDO	INEW SECTION
30 HDD 4	ATES OVERVIEW	
30 UPD/		
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	and web page only, not	New section
	included in TDO	

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