The Department of Transport and Main Roads is committed to continually reviewing and improving our technical publications to ensure we deliver best value for money and embrace the latest technological advancements.

To help you stay informed about any upcoming changes to technical publications we have provided a look ahead of proposed amendments, we have broken these into three timelines: next 4 months, 4 to 8 months and into the future.

### PHASE 1 – NEXT FOUR MONTHS

#### SPECIFICATIONS and DRAWINGS

**MRTS15 – Noise Fences**
Changes to MRTS15 clarify the intent of the specification and provide more precise technical detail for design and construction of noise fences.

**MRTS17 – Bitumen and Multigrade Bitumen**
Amendments to facilitate the increased use of Reclaimed Asphalt Pavement (RAP) in dense graded asphalt and to harmonise the specification with AS 2008.

**MRTS30 – Asphalt Pavements**
Amendments to the requirements for high RAP content mixes and pavement surface preparation requirements.

**MRTS45 – Road Surface Delineation**
Addition of application table and minimum requirements for line marking for Cold Applied Plastics and addition of content to advise that coloured surface treatments are not covered by this specification.

**MRTS51 – Environmental Management**
Minor amendments in MRTS51 to remove event size for water quality investigation criteria, correct cross-referencing to MRTS16 Landscaping and removal of contract threshold for waste reporting. New Work Item Number (WIN) created in MRS51 to itemise the costs of investigation of a potentially contaminated site known at time of tender. Modifications to Annexure and Appendix reflect above amendments.

**MRTS76 – Supply and Erection of Steel Girders**
Amendments include:
- removal of ‘Licence to Hire’ for primers and trailing equipment
- National Heavy Vehicle Accreditation Scheme included as alternative to Certificate of Inspection for prime movers
- inclusion of departmental registered suppliers and proprietary products for epoxy paste for seating of steel girders
- expanded requirements for installation of girder restraints, and
- addition of Annexure MRTS76.1.

**MRTS91 – Conduits and Pits**
Removal of references to SD1416 Traffic Signals/Road Lighting – Collar for 600 diameter Circular Cable Jointing Pit in Section 10.5 and 14, relating to information on concrete surrounds for circular pits.

**MRTS102 – Reclaimed Asphalt Pavement Material**
Modifications to facilitate increased use of high RAP content mixes on Transport and Main Roads projects.

**SD1304 – Pipe Culverts – Wingwalls, Headwall and Apron for Pipe Diameter 750 to 2400 – Drawing 1 of 2 to 2 of 2**
Amendments to meet code requirements include:
- apron and cut off wall thickness of concrete and amount of reinforcement, and
- treatment of weepholes.

**SD1424 – Traffic Signals – Detector Loops Installation Details**
Drawing changes applied to both asphalt and concrete pavement loops. Details added for ‘Stress Relief Chamfer for Cable’.

**SD1425 – Traffic Signals – Detector Loops Placement Details**
Minor formatting amendments.

**SD1699 – Traffic Signals / Road Lighting / ITS – Parts List**
Part number / item(s) details updated in accordance with relevant standard drawings.

**SD1701 – Traffic Signals – Detectors Loops – Counting/Right Turn Loops and Diode Connection Details**
Reference documents updated.

**SD1702 – ITS – Detector Loops – Motorway Management – Placement Details**
Major changes include:
- removal of details for ‘Typical Vehicle Detector Loop Placement in Concrete Pavement (4 Traffic Lanes)’
- additional notes 12 and 13 added
- requirement to install pre-formed loops prior to laying the wearing surface added, and
- update to section title.

**SD1905 – Foundation Equipment Cabinet – Drawing 1 of 10 to 10 of 10**
Sheet 3 – Added communication equipment terminal block for equipment earth. Added equipment earth cables – E6, E7, E8, E9, E10 and E11.
Sheet 7 and 8 – Show equipment earth.
Sheet 9 – Add details of communication equipment terminal block for equipment earth.
Sheet 10 - Added details of earth cables - E6, E7, E8, E9, E10 and E11 and update the details on Cable Schedules.
No technical content changes to Sheets 1, 2, 4, 5 and 6.

#### MANUALS

**Design Criteria for Bridges and Other Structures (DCBoS)**
Update to incorporate Australian Standard AS 5100 (2017) for Bridge Design.

**Drafting and Design Presentation Standards Manual (DDPSM) – Volume 1 Chapters 1 to 4**
Re-assess content considering the impact of BIM including incidental on-going revisions.

**DDPSM – Volume 1 Chapter 5**
Re-assess content of new Chapter 5 considering the impact of Building Information Management (BIM) including visualisations as a road design tool and incorporation of BIM visualisation as a presentation tool.
and improve the use of raised priority crossings of shared pathways.

Assessment criteria for rail transport infrastructure.

Mechanistic and Deflection Reduction Methods.

Evaluation and Chapter 5 Design of Pavement Rehabilitation Treatments:

Procurement practice changes (incl. electronic tendering, Whole of Government (WoG), Engineering Consultant Scheme (ECS) and peer review. Aim to improve user efficiency and understanding.

Nuclear Gauge Testing Manual (NGTM)

Minor corrections to test methods.

Pavement Rehabilitation Manual

Update of the existing content specifically to Chapter 2 Pavement Evaluation and Chapter 5 of Pavement Rehabilitation Treatments: Mechanistic and Deflection Reduction Methods.

Road Planning and Design Manual (RPDM) – Volume 6 – Lighting

Lighting to include LED requirements and general amendments.


Section 3.3.15 incorporates a guideline for prioritisation of Uninterruptible Power Systems (UPS) implementation for traffic signals.

NEW Providing for cyclists on roundabouts

NEW Operation Railway Noise and Vibration

NEW Including provisions for bicycles in road pavement rehabilitation and resurfacing projects

NEW Maintenance minimisation for walking and cycling facilities

This guideline will update content published in Technical Note TN132.

NEW Operational Railway Noise and Vibration

This interim guideline addresses operational noise and vibration assessment criteria for rail transport infrastructure.

NEW Providing for cyclists on roundabouts

This guideline updates content published in TN136.

NEW Raised priority crossings for pedestrians and cycle paths

This guideline provides design advice to supplement national guidance and improve the use of raised priority crossings of shared pathways.

NEW Speed management on shared paths

This guideline will update content published in Technical Note TN130.

POLICIES

EP150 – Procurement of Infrastructure Project Thresholds

Update of content in line with amendments to TIPDS Volume 1 and 2.

CONTRACTS

Transport Infrastructure Project Delivery System (TIPDS) – Vol 1

Selection of Delivery Options

Update of content in line with Volume 2 amendments.

TIPDS – Vol 2 Tendering for Infrastructure Works

Amendments reflect changes to 2018 Queensland Procurement Policy.

Consultants for Engineering Projects (CFEP)

Procurement practice changes (incl. electronic tendering, Whole of Government (WoG), Engineering Consultant Scheme (ECS) and peer review. Aim to improve user efficiency and understanding.

TECHNICAL NOTES

TN102 – Selecting Testing Frequencies for Acceptance Sampling of Pavement Materials

Review and update of TN102 following publication of default testing frequencies in pavement specifications.

TN148 – Asphalt Mix Design Registration

Technical Note to address higher RAP mixtures.


Update of content regarding Industry feedback.

NEW TN183 – Use of High Percentages of Reclaimed Asphalt Pavement (RAP) Material in Dense Graded Asphalt

New technical note intended to provide additional guidance about the use of High Percentages of Reclaimed Asphalt Pavement (RAP) Material in Dense Graded Asphalt. Will be released in parallel with update to MRS30 / MRTS30 Asphalt Pavements suite.

NEW TNXXX – Assessment of nonconformances in lightly and heavily bound pavements

Provide advice on how to assess nonconformances that may occur during the production of lightly and heavily bound pavement material – particularly with regards to Unconfined Compressive Strength (UCS).

NEW TNXXX – Guideline for Hydraulic Modelling

New technical note to outline the minimum requirements which must be met when undertaking hydraulic modelling and design work for Transport and Main Roads.

NEW TNXXX – Sealing in Challenging Weather Conditions

New technical note providing additional guidance and requirements for sealing in challenging weather conditions.

NEW TNXXX – Trafficking EME2 pavements

Provide advice on the suitability of EME2 asphalt to be trafficked during construction.

WITHDRAW EN07 – Conformance of Polymer Modified Binders

Content incorporated into MRTS11.

WITHDRAW TN19 Helical Lock-Seam Corrugated Steel Pipe

Helical-Lock Seam Corrugated steel pipes are other steel and aluminium pipe culvert technical specifications are now specified in MRTS03 Drainage, Retaining Structures and Protective Treatments.

WITHDRAW TN29 Duplex Coatings on Helical Pipe Culverts

Content previously incorporated into MRTS03 Drainage, Retaining Structures and Protective Treatments.

WITHDRAW TN75 – Registration of Mix Designs for Asphalt Manufactured using Warm Mix Asphalt Technologies

Requirements superseded or incorporated in TN148.

WITHDRAW TN104 – Guidelines for Asphalt Mix Design Assessment

Requirements superseded or incorporated in TN148.

WITHDRAW TN130 – Speed Management on Shared Paths

Content to be reformatted as a Guideline.

WITHDRAW TN132 – Maintenance Minimisation Guidelines for Walking and Cycling Facilities

Content to be reformatted as a Guideline.

WITHDRAW TN133 – Guidance on the widths of shared paths and separated bicycle paths

Content has been incorporated in AGRD Part 6A Paths for Walking and Cycling.

WITHDRAW TN136 – Providing for Cyclists on Roundabouts

Content to be reformatted as a Guideline.
### PHASE 2 – FOUR TO EIGHT MONTHS

#### SPECIFICATIONS and DRAWINGS

**MRTS01 – Introduction to Technical Specifications**
Changes to reflect the increasing use of national and international standards in Section 3 and 4.

**MRTS05 – Unbound Pavements**
A significant revision proposed to include the adoption of ’Modified C’ grading, use of modified compaction for selected layers, use of Linear Shrinkage (LS) only (no Plasticity Index (PI)), and a minimum LS requirement. In addition changes to the Quarry Registration System will be made to accommodate the proposed changes.

**MRTS12 – Sprayed Bituminous Emulsion Surfacing**
Update to enable the procurement of Proprietary Emulsion Primers.

**MRTS39 – Lean Mix Concrete Sub-base for Pavements**
Review and update planned with particular emphasis placed on harmonisation with the latest New South Wales (NSW) Roads and Maritime Services (RMS) equivalent specifications.

**MRTS42 – Supply of Wax Emulsion Curing Compound for Concrete**
Review and update planned with particular emphasis placed on harmonisation with the latest New South Wales (NSW) Roads and Maritime Services (RMS) equivalent specifications.

**MRTS72 – Manufacture of Precast Concrete Elements**
Minor update to be compatible with latest MRTS70 Concrete and ensure specification keeps up to date with current practice.

**MRTS73 – Manufacture of Prestressed Concrete Members and Stressing Units**
Minor update to be compatible with latest MRTS70 Concrete and ensure specification keeps up to date with current practice.

**MRTS78 – Fabrication of Structural Steelwork**
Updating specification to align with industry changes and customer needs.

**MRTS84A – Removal of Bridge Deck Wearing Surface**
Harmonisation of Q test methods with AS test methods.

**NEW MRTSSXX – Coloured Road Surfacing**
New specification for the construction of coloured pavement surfacings (for example, bicycle lanes and bus lanes).

**NEW MRTSSXX – Road Surfacing**
This specification will provide guidance on road surfacings that provide a high level of surface friction.

### MANUALS

**NEW Building Information Management (BIM) Manual for Bridges**
To achieve a consistent approach for the delivery of bridge projects using BIM technologies to ensure that the department will be able to use and operate the BIM models into the future. This will also assist with key asset management practices.

**Materials Testing Manual (MTM)**
Inclusion of new test methods and corrections to existing test methods.

**RPDM – Supplement to Austroads Guide to Road Design (AGRD) – Volume 3, Part 3 Geometric Design**
Geometric information from Technical Note 128 (Selection and Design of Cycle Tracks - May 2015) to be considered for inclusion in RPDM.

**RPDM – Supplement to AGRD – Volume 3, Part 4 Intersections and Crossings – General**
Review changes between current and past AGRD versions. Update supplement with identified changes.

### POLICIES

**NEW Quarry Registration System**
Update to accommodate the recent and proposed changes to Unbound Paving Material (MRTS05) Bound Paving Materials (MRTS08, MRTS09 and MRTS10), Cover Aggregate (MRTS12), Aggregates for Asphalt (MRTS101) and Concrete (MRTS70) specifications suites.

### GUIDELINES

**NEW Selection and Design of Cycle Tracks**
This guideline will update content in Technical Note TN128 Selection and Design of Cycle Tracks.

### CONTRACTS

**Routine Maintenance Performance Contract (RMPC)**
Incorporate amendments to be applied by Local Government and RoadTek.

### TECHNICAL NOTES

**TN25 Post Tensioning Anchorage Approval**
General review and update of content.

**TN68 – VMS Gantry Installation Procedure**
General review and update of content.

**TN175 – Selection and Design of Sprayed Bituminous Treatments**
Update to align with latest Austroads publication.

**NEW TNXXX - Advice on Climate Change and Storm Tide**
New technical note issued a supplement to the Road Drainage Manual (RDM) to provide advice on climate change and storm tide.

**NEW TNXXX – Selection of Road Surfacing**
New technical note intended to provide additional guidance for the selection of road surfacings. This includes providing guidance about specifying skid resistance related properties for road surfacings at the time of construction.

**WITHDRAW TN138 – Verge Parking and Indented Parking**
Content to be incorporated into RPDM – Supplement to AGRD – Volume 3 Part 6B: Roadside Environment, Section 4.4.

**WITHDRAW TN139 – Use of on-Street Space (Kerbside Road Space) for Safer Cycling**
Content to be incorporated into new Supplement to AGTM – TRUM Vol 1, Part 11 Parking.
**PHASE 3 – FUTURE**

### SPECIFICATIONS and DRAWINGS

**MRTS24 – Manufacture of Precast Concrete Culverts**  
Amendments to address industry feedback, revision of document scope to relocate design / installation elements and increased alignment to Australian Standards.

**MRTS25 – Manufacture of Precast Concrete Pipes**  
Amendments to address industry feedback and revision of document scope to relocate design / installation elements.

**MRTS79 – Fabrication of Aluminium Components**  
Improve clarity of document and align with MRTS78 Fabrication of Structural Steelwork.

**MRTS84A – Removal of Bridge Deck Wearing Surface**  
Review and update of content.

### MANUALS

**MUTCD harmonisation**  
National harmonisation with AS 1742:  
- Part 2 Traffic control devices for general use  
- Part 3 Traffic control devices for works on roads  
- Part 15 Direction signs, information signs and route numbering.

**Road Drainage Manual (RDM)**  
Harmonisation of content to AGRD Part 5A Drainage and incorporation of technical note content.

**RPDM – Supplement to AGRD – Volume 3, Part 6A: Pedestrian and Cyclist Paths**  
Review changes between current and past AGRD versions. Update supplement with identified changes. Incorporate content from TN169, TN138 Section 4.4 and TN139 Section 8.1.

** Structures Inspection Manual (SIM)**  
Review and update of content.

**TRUM – Volume 3 – Signing and Pavement Marking**  
Review and update of content.

### POLICIES

**EP150 – Procurement of Infrastructure Project Thresholds**  
Incorporate industry feedback and departmental strategic alignment.

**EP160 – Low Value Infrastructure Procurement**  
Policy to explain new contract type for very low risk / low value work.

### CONTRACTS

**Contract Administration System (CAS)**  
Alignment to 3PCM process changes, making the manual more user-friendly.

### TECHNICAL NOTES

**TN27 Guidelines for Design of Precast Culvert and Pipe Headwalls**  
General review and update of content.

General review and update of content.

**NEW TNXXX - Advice on Use of Rational Method for Transport and Main Roads Projects**  
New technical note issued a supplement to the RDM to provide advice on use of rational method for Transport and Main Roads projects.

**NEW TNXXX - Advice on AAToC Methodology with AAR2016**  
New technical note issued a supplement to the RDM to provide advice on AAToC Methodology with AAR2016.