

Technical Publication News

Technical Publications

Industry update – November 2020

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 two timelines: next 4 months, and into the future.

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NEXT FOUR MONTHS (November 2020 – February 2021)

SPECIFICATIONS

MRTS04 – General Earthworks

Amendments include:

- subgrade depth changed from 2 m to 1.5 m in embankment (including updated figures)
- upper limit requirement for % passing 0.075 mm for Class A1 removed
- Class A1/B replaced with 'Earthfill' in Table 15.3(b)
- editorial changes in Clause 18.3.3 to outline the Subgrade Treatment requirements
- specification for Coarse Sand is provided in Table 19.2.6
- new Technical Specification MRTS56 *Construction Surveying* referenced, and
- corresponding Contract Administration System (CAS) Checklists to MRTS04 reviewed and updated.

MRTS05 – Unbound Pavements

Updated with minor administrative amendments.

MRTS27 – Geotextiles Separation and Filtration

Amendments include:

- Table 6.4.2(a) – Predominantly Pervious Granular Soils amended to D15 > 0.075 mm
- added Austroads reference for G Rating
- added Australian Standard Test Method for Particle Size Distribution using hydrometer, replaced Q103C with AS 1289.3.6.3, and replaced Q103A with AS 1289.3.6.1. Removed references to Q101.

MRTS36 – Recycled Glass Aggregate

Updated to align with the permissible use of recycled glass in drainage and backfill applications permitted in MRTS04 – *General Earthworks*.

MRS45 – Road Surface Delineation

Harmonised to *Road Planning and Design Manual* Edition 2: Volume 3 *Supplement to Austroads Guide to Road Design, Part 3: Geometric Design* as well as TC1978_1 to TC1978_3.

Amendments to Work Item Numbers (WINs) 52122, 52123 and 52124 where the width ATLM on wide centreline treatments was changed from 100 mm to 150 mm.

MRTS61 – Gantries and Support Structures for Road Signs, Tolling Systems and ITS Devices

Amendments include:

- include the use of jacking bolts for the installation of gantries
- TN68 *VMS Gantry Installation Procedure* content incorporated, and
- additional Witness Points and Hold Points added to support the Contract Administrator.

MRTS63 – Cast-in-Place Piles

MRTS63A – Piles for Ancillary Structures

Amendments include:

- minor changes to steel liner fabrication requirements (MRTS63A only)
- requirement to mark liner length before driving
- clarification of Geotechnical Assessor qualifications, geotechnical assessment, and addition of requirement to be independent
- adoption of MRTS70 *Concrete* (2018) concrete requirements
- addition of Pile Integrity Testing and associated new Hold Point and WIN, and
- addition of As Constructed survey / record requirements

MRTS64 – Driven Tubular Steel Piles (with reinforced concrete pile shaft)

Amendments include:

- minor change to terminology shaft base level and toe of steel tube and restrike clause
- introduction of and reference to requirements for As Constructed survey
- clarification of requirements to consider self-weight of pile during calculating and certifying the geotechnical capacity of the pile
- extension of time to cast concrete plug and extension of time between certification and concrete placement for the pile shaft
- requirement for Geotechnical Assessor to be independent of the piling design, construction and testing, unless approved otherwise by the Administrator
- clarification of underwater inspection requirements
- requirement for water retention testing of concrete as per MRTS70 *Concrete*, and
- addition of concrete test results and As Constructed survey information to the As Constructed records.

MRTS65 – Precast Prestressed Concrete Piles

Amendments include:

- minor changes to terminology, symbols and reference documents
- introduction of and reference to requirements for As Constructed survey
- update to certification for vehicles transporting piles
- requirements to use pile stability frames for safety of pile stacks on site to be consistent with requirements in precast yards
- clarification and update of testing requirements
- pile driving contractor to manage heave of adjacent piles during driving
- clarification and more detail on permissible stresses during driving, and
- update to MRS65 and MRTS65.1 for consistency with the above changes.

Checklists CAC013M, CAC014M, CAC015M, CAC017M, CAC021M, CAC067M, CAC089M and CAC090M reviewed and updated for currency in relation to updated Technical Specifications MRTS63, MRTS63A, MRTS64 and MRTS65.

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| <p>MRTS78A – Fabrication of Structural Stainless Steelwork Minor amendments including the specified minimum class of finish for durability purposes.</p> | <p>MRTS256 – Power Cables Amendments include:</p> <ul style="list-style-type: none"> • provision of a definition of cable slack to be left in electrical pits after installation • clarification of the requirements on cable slack for power cables • inclusion of power cables for ITS installations, which was not mentioned in previous versions, and • minimisation of disputes on cable slacks. |
| <p>MRTS79 – Fabrication of Aluminium Components Amendments include:</p> <ul style="list-style-type: none"> • clarification of welding and finish requirements • updates to content in line with current technical guides and resources, and • checklist CAC063M reviewed and updated for currency. | <p>MRTS257 – Feeder Cable and Loop Cable for Vehicle Detector Amendments include:</p> <ul style="list-style-type: none"> • scope of the document limited to technical requirements of feeder and loop cables • technical requirements aligned to AS 2276.2 and AS 2276.3, and • MRS257 (Specification Measurement) to be withdrawn. WINs have been incorporated into MRS204 <i>Vehicle Detectors</i>. |
| <p>MRTS81 – Bridge Bearings Amendments include:</p> <ul style="list-style-type: none"> • alignment to AS 5100 (2017) terminology and requirements • additional detail provided for testing of bearings <ul style="list-style-type: none"> – clarification of document required for submission prior to testing – change of testing requirements, and – additional information of non-standard bearing types. | <p>NEW MRTS272 – Shotcrete for Aboveground Applications New specification outlining requirements for aboveground applications such as slope protection and drainage works and as secondary elements of retaining walls. Previously, applications of shotcrete only had a brief mention in MRTS03 <i>Drainage, Retaining Structures and Protective Treatments</i>. This specification was initiated due to an increase in requests to use shotcrete for slope stabilisation and channel drains. A separate specification is to be produced for tunnelling and underground concrete works which will include shotcrete for these applications. Checklist CAC087M has been developed to support MRTS272.</p> |
| <p>MRTS91 – Conduits and Pits Amendments include:</p> <ul style="list-style-type: none"> • inclusion of Hold Point on 'Finding of Asbestos' • additional details on testing requirements of non-metallic conduits • clarification that although the material used for pit cover could be of any type to support loading and other requirements, the material shown on the standard drawings is steel, and • only covers for circular pits are required to be lockable. | <p>NEW MRTS273 – Fibre-reinforced Concrete New specification for concrete reinforced with fibres. This option is an established technology and was initiated due to an increase in requests to use fibre-reinforced concrete. The introduction of this Technical Specification will provide a consistent approach. Checklist CAC088M has been developed to support MRTS273.</p> |
| <p>MRTS94 – Road Lighting Update to establish LED's as the department's preferred luminaire. DALI drivers are now standard, and the department will move to a 0 degree upcast for luminaire performance.</p> | <p>NEW MRTS278 – Supply of Structural Fasteners New specification for the supply of bolts and other fasteners, previously included in MRTS78 <i>Fabrication of Structural Steelwork</i> and TN66 <i>Commercial and Fabricated Bolts and Nuts</i>. Additional information has been included on the supply of bolts to EN 14399, and the testing procedure for the department's Assembly Test.</p> |
| <p>MRTS201 – General Equipment Requirements Clause 13.2 added to outline CyberLock requirements, and removal of Section B8.3 on Cyclic thermal performance. This test is not practical to be undertaken.</p> | <p>DRAWINGS</p> <p>SD1250 – R C Box Culverts and Slab Link Culverts – Height > 600 Amendment to the bearing pressure note, and addition of surface treatment to aprons and slab.</p> |
| <p>MRTS204 – Vehicle Detectors Expanded scope to include the installation, testing and commission of the detector systems, loop and feeder cables, and technical requirements alignment to AS 2703. WINs from MRS257 <i>Feeder Cable and Loop Cable for Vehicle Detector</i> added.</p> | <p>SD1260 – R C Box Culverts and Slab Link Culverts Height = 375 to 600 Update to the purpose statement, bearing pressure note, and addition of surface treatment to the aprons.</p> |
| <p>MRTS226 – Telecommunications Field Cabinets Amendments include:</p> <ul style="list-style-type: none"> • option of CyberLock requirements to WINs 64041, 64042 and 64043 • new WIN 64044 on the 'Supply and Installation of field cabinet CyberLock', and • new WIN 64092 for the 'Removal and return of CyberLock'. | <p>SD1309 – Concrete Gully – Field Inlet Type 1 Bicycle safety grate note amended.</p> |
| <p>MRTS233 – Roadway Flood Monitoring Systems Amendments include:</p> <ul style="list-style-type: none"> • interface with STREAMS as a mandatory requirement using drivers supported by STREAMS for the Simple Device Interface • IP rating requirements specified according to the location of the enclosure with respected to highest known flood level recorded • updated technical parameters of water level sensors, and • minor changes regarding remote monitoring, network connectivity, data exchange and references. | <p>SD1310 – Concrete Gully – Field Inlet Type 2 Bicycle safety grate note amended.</p> |
| <p>MRTS253 – Traffic Signal Lanterns References to outdated testing methods have been updated. An additional option for lantern dimming has been provided to give flexibility to manufacturers in providing compliant devices.</p> | <p>SD1421 – Traffic Signals - Traffic Signals Post and Footing Installation Details Reference to SD1721 included and note added regarding provision for 20 mm conduit for earthing to accommodate post top mount switchboard as per SD1627.</p> |
| <p>MRTS255 – Traffic Signal Controllers Amendments include:</p> <ul style="list-style-type: none"> • removal of all references to socket outlets within Traffic Signal Controller cabinet extensions • addition of requirement for a hardwired power supply • special red phase timing added to operational requirements, and • reference to MRTS253 <i>Traffic Signal Lanterns</i> added for control wire dimming requirements. | <p>SD1438 – Traffic Signals - Hinged Based Plate Traffic Signals Post Installation Water drainage arrangement modified to a 25 mm mini trench to improve drainage of water, away from the footing.</p> |
| <p>MRTS255 – Traffic Signal Controllers Amendments include:</p> <ul style="list-style-type: none"> • removal of all references to socket outlets within Traffic Signal Controller cabinet extensions • addition of requirement for a hardwired power supply • special red phase timing added to operational requirements, and • reference to MRTS253 <i>Traffic Signal Lanterns</i> added for control wire dimming requirements. | <p>SD1689 – ITS – Switchboard Typical Layout and Circuit Diagram MEN System Main neutral and earthing connections modified so that both are connected to the main terminal bolt at their respective bars. This serves to distinguish the main neutral and earth conductors and to keep them intact.</p> |
| | <p>SD1699 – Parts List Reviewed and updated for currency.</p> |

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| <p>SD1710 – Traffic Signals/ITS – Uninterrupted Power Supply (UPS) Wiring Schematic</p> <p>Main neutral and earthing connections modified so that both are connected to the main terminal bolt at their respective bars. Added two more alarm functionalities into the PLC-Door switch and Bypass switch.</p> | <p>TRUM – Volume 3 – Part 2 – Pavement Marking Usage</p> <p>Amendments include:</p> <ul style="list-style-type: none"> • clear distance from the stop / holding line to the initial pavement arrow from '3' to '6' metres changed to align with the MUTCD, and • amended Figures 4.2.4(Q) to 4.2.4(Y). |
| <p>WITHDRAW SD1771 to SD1777 – Power Extension for IT Devices</p> <p>These Standard Drawings are no longer relevant as several areas in Energy Queensland are not permitting Socket Outlet on unmetered supply, in this case the traffic signal controller. Two new generic drawings for hardwired power supply will be developed for release in March 2021 to replace drawings SD1771 to SD1777.</p> | <p>TRUM – Volume 3 – Part 7 – Tourist, Service and Welcome Signs</p> <p>Content updated and streamlined for readability. Improvements to the application process, criteria and structure included to make it easier for potential applicants and assessors to read and navigate.</p> |
| <p>SD1906 – ITS - WIM Piezo Sensor – Installation Details</p> <p>Correction to the slot dimensions in which the piezo sensor is installed to 19 mm wide x 25 mm deep. Loops' electrical characteristics are specified.</p> | <p>TRUM – Volume 3 – Part 8 – Wildlife Signage Guidelines</p> <p>Information relocated from Appendix A2 to Section 1 and Section 4 of the document to detail the effectiveness of wildlife signage for smaller wildlife and provide alternative treatment options for projects where the aim is to reduce wildlife mortality rates.</p> |
| <p>SD1910 – ITS - WIM Sensor Configuration – Piezo – Piezo</p> <p>Notes about loops installation removed as loop is not required in this plan. Maximum AADT condition (5000 per direction) for the application of 'Single Carriageway Dual Direction Configuration' added. 'Dual Carriageway Single Direction 2 Lanes' and 'Dual Carriageway Single Direction 2 Lanes' diagrams removed.</p> | <p>TRUM – Volume 4 – Part 2 – Road Lighting Maintenance</p> <p>Updated to include maintenance practices for LED luminaires and smart lighting controllers.</p> |
| <p>SD1911 – ITS - WIM Sensor Configuration Strain Gauge Sensor</p> <p>The length of piezo sensors now specified.</p> | <p>Road Planning and Design Manual (RPDM) – Volume 3 – Part 4C – Interchanges</p> <p>Amendments include:</p> <ul style="list-style-type: none"> • harmonisation to <i>Austrroads Guide to Road Design – Part 4C (2015)</i> • updated departmental guidance on safety screens and ramp traffic signals, and • correction to acceleration lane lengths (now defined as 50%ile speed). |
| <p>SD2203 – Bridge Traffic Barriers – Bridge Safety Rail for Pedestrian only Path</p> <p>Update to vent hole in the post location.</p> | <p>RPDM – Volume 3 – Part 6B – Roadside Environment</p> <p>Amendments include:</p> <ul style="list-style-type: none"> • correction of clause numbering and referencing to align with current Austrroads publication • inclusions of references to current departmental publications • changes to Environmental Aspects, Roadside Amenities and Roadside Infrastructure sections incorporating technical component of withdrawn <i>Rest Areas and Stopping Places Guidelines</i> • new Roadside Environment Safety Considerations section including animal vehicle collisions and bushfire Risk Planning and Design • off-street parking recommendations for minimum number of accessible disability parking spaces required, and • reference to <i>TRUM Part 11 Parking Management Techniques</i> included. |
| MANUALS | |
| <p>Queensland Manual of Uniform Traffic Control Devices (MUTCD) – Part 1 – General introduction and sign illustrations</p> <p>Figure correction in Section 4.4.12.1.</p> | <p>Materials Testing Manual (MTM)</p> <p>Amendment to include environmental methods to support the publication of the <i>Soils Management Manual</i>. Includes minor amendments from stakeholder feedback. Publish new versions of Q115 and Q134 following stakeholder consultation.</p> |
| <p>MUTCD</p> <p>Part 2 – Traffic Control Devices for General Use Part 5 – Street Names and Community Facility Name Signs Part 9 – Bicycle facilities Part 10 – Pedestrian control and protection Part 11 – Parking controls Part 12 – Bus, transit and truck lanes</p> <p>Minor administrative changes to above listed parts.</p> | <p>NEW Soils Management Manual</p> <p>The <i>Soil Management Manual</i> provides guidelines for the management of soils during all phases of road transport infrastructure projects within Queensland.</p> |
| <p>MUTCD – Part 3 – Traffic Control for Works on Roads</p> <p>The new Queensland MUTCD Part 3 has been harmonised to AS 1742.3 and reflects the concurrent release of the <i>Queensland Guide to Temporary Traffic Management</i>.</p> | GUIDELINES |
| <p>MUTCD – Part 6 – Tourist and Services Signs</p> <p>Figures in Sections 5.7.2 and 5.7.3 have been amended.</p> | <p>Guideline – Providing for People Walking and Riding at Roundabouts</p> <p>Updated to provide additional content and treatments focused on people walking and riding at roundabouts.</p> |
| <p>MUTCD – Fact Sheet and Frequently Asked Questions</p> <p>Updated to reflect Queensland MUTCD Part 3 harmonisation.</p> | <p>NEW Guideline – Traffic Management at Works on Roads</p> <p>This new guideline provides supporting guidance on the optimal treatments contained in the Queensland MUTCD Part 3 and the <i>Queensland Guide to Temporary Traffic Management (QGTTM)</i>. This guidance largely follows the information previously contained in the MUTCD Part 3 Supplement and is separated into six sections:</p> <ol style="list-style-type: none"> 1. Signs and devices 2. Traffic management operations 3. Risk management 4. Application and use of truck mounted attenuators 5. Methods for controlling traffic, and 6. Traffic management administration. |
| <p>Traffic and Road Use Management Manual (TRUM) – Volume 1 – Part 9 – Traffic Operations</p> <p>Amendment to refer readers to Section 6.5 of the latest (2020) release of <i>Austrroads Guide to Traffic Management Part 9 Transport Control Systems – Strategies and Operations</i> with additional Queensland advice provided.</p> | |
| <p>TRUM Volume 1 – Part 11 – Parking Management Techniques</p> <p>In line with the current Technical Publication requirements, a review was undertaken of several historical Technical Notes. The review ensures the document is appropriately harmonised, more user friendly and readable, and the information is still relevant. Some of these were reformatted into Technical Guidelines and others were reformatted into Austrroads Supplements. The 2015 Technical Note TN139 <i>Use of on-street space (kerbside road space)</i> for safer cycling has been reformatted into two supplements. The first being a supplement to the <i>Austrroads Guide to Traffic Management Part 11</i>, and has been published in <i>TRUM Volume 1 Part 11</i>, and the second being a supplement to <i>Austrroads Guide to Road Design Part 6B</i> which was published in the <i>Road Planning and Design Manual Volume 3 Part 6B</i>. There were no changes to content, this was a formatting and harmonisation change only.</p> | |

Guideline – Treatment Options to Improve Safety of Pedestrians, Bicycle Riders and Other Path Users at Driveways

Guidance to assist with identifying driveways where pathway users are / will be at increased risk, and treatment options for mitigating risks.

Queensland Guide to Temporary Traffic Management (QGTTM) – Part 1 to Part 10

Harmonisation of temporary traffic management practice with the *Austrroads Guide to Temporary Traffic Management (AGTTM)*. As part of this harmonisation, the *QGTTM* has been developed and provides requirements specific to Queensland. The *QGTTM* has precedence over the equivalent *AGTTM* Part.

CONTRACTS

Transport Infrastructure Contract (TIC) and Minor Infrastructure Contract (MIC)

Amendments include:

- policy-related requirements updated to improve the department's compliance
- updated contract payment clauses
- Statutory Declaration Form updated in accordance with new BIF amendment
- Building Code added in MIC documents
- BAS replaced by QBuild
- maximum duration of 15 Working Days is now for all activities, not only for critical path, and
- minor amendments made based on district and industry feedback.

TECHNICAL NOTES

WITHDRAW TN109 – Video Record Keeping of Traffic Management at Roadworks

Guidance to be updated and moved to Chapter 6 of the *Guideline – Traffic Management at Works on Roads*.

WITHDRAW TN138 – Verge Parking and Indented Parking

TN138 content incorporated into the Supplement to *Austrroads Guide to Road Design: Road Planning and Design Manual (RPDM)* Volume 3 Part 6B Section 4.4 and link to be provided on the *Cyclists and Pedestrians* category page.

WITHDRAW TN139 – Use of On-street Space (kerbside road space) for Safer Cycling

TN139 has been reformatted into two supplements. The first being a supplement to the *Austrroads Guide to Traffic Management Part 11*, published in *TRUM Volume 1 Part 11*, and the second being a supplement to *Austrroads Guide to Road Design Part 6B*. There were no changes to content, this was a formatting and harmonisation change only.

TN159 – Treatment of Under-depth Underground Wiring Systems (UWS) in Brownfield Installations

Update to specify that if an existing earth rod is found to be damaged or corroded, it must be replaced with a 316 stainless steel equivalent.

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

Alignment with recent changes in *MRTS30 Asphalt Pavements*.

OTHER

Geotechnical Design Standard

Amendments include:

- performance standards and design requirements for embankments and cuttings
- additional design requirements for side-long embankments
- geotechnical investigation and reporting requirements
- design methodology for piles
- remediation of existing slopes and embankments
- design requirements for temporary works, and
- updates to referenced documents and terminology.

Pavement Design Supplement

Amendments include:

- alignment with updated Technical Specifications, (*MRTS04 General Earthworks*, *MRTS05 Unbound Pavements*, *MRTS10 Plant-Mixed Lightly Bound Pavements*)
- pavement structures for lightly bound base pavements
- reduction of minimum foamed bitumen stabilised material thickness to 250 mm
- expanded guidance on thin asphalt over granular pavements
- subgrade depth defined as 1.5 m for both cut and fill, and
- inclusion of EME2 modulus master curve and fatigue relationship.

EP147 Road Closure Policy for Wet Weather and Flooding and Information Sheets 1 to 10

Reviewed for currency and updated with minor administrative changes.

FUTURE UPDATES AND NEW RELEASES

SUPPLEMENTS

Harmonisation with AS 1742.3

Queensland's MUTCD Part 3: Traffic Control for Works on Roads with AS 1742.3 issued December 2019.

NEW SPECIFICATIONS

- Coloured Surface Treatment
- High Friction Surface Treatment
- Public Utility Plant (PUP) Technical and Functional Specifications, and
- Concrete Repair.

NEW STANDARD DRAWINGS

- Noise barriers – Structural detail (universal beam post) for concrete panels, steel panels and transparent panels options, and
- Precast bridge barrier panels – GA and reinforcement details.

NEW TECHNICAL NOTES AND POLICIES

Technical Notes

- Recycled Materials Environmental Assessment Framework
- Road Geometry for Temporary Traffic
- Economical Design / Construction of Cast-in-Place Piles, and
- Generic Road Safety Camera Poles.

Policies

Public Utility Plant (PUP)

New policy in development on PUP requirements.

FUTURE UPDATES

Technical Specifications

- *MRTS07A*, *MRTS07B*, *MRTS07C* and *MRTS09* to update with departmental project feedback and industry best practice
- *MRTS12* to enable procurement of proprietary emulsion primes
- *MRTS13* to align with *Austrroads* guidance
- *MRTS16* to update from dispersive soils and ESC review
- *MRTS24* to reflect *MRTS70* and *Austrroads Technical Specification*
- *MRTS39* and *MRTS42* to harmonise with NSW Roads and Maritime Services equivalent specifications
- *MRTS50* minor amendments
- *MRTS52* minor amendments
- *MRTS70* minor amendments
- *MRTS71* to reflect *Austrroads Technical Specification*
- *MRTS78* to reflect industry changes
- *MRTS88* to reflect new industry practice and variety of substrates
- *MRTS104* to align with recent feedback from departmental projects and geosynthetic industry
- *MRTS208* to include new requirements, and
- *MRTS263* to align with requirements on battery and battery installation (for security).

Standard Drawings

- SD1270 to revise the safety rail above the baffles on the wingwalls and other fabrication details
- SD1304 and SD1305 to amend the headwall reinforcement for skewed pipes and to add surface treatment to aprons
- SD1330, SD1395 and SD1469 to revise and amend all details and notes
- SD1414, SD1415, SD1416, SD1417, SD1630, SD1681 and SD1685 to align with new requirements on Type 100 circular pits, and
- SD1721 to amend height of pedestrian post to 1600 mm, consistent with other drawings.

Technical Notes

TN157 Underground asset information (Transport and Main Roads Surveying Standards – February 2016)

Review and update for currency.

TN175 Selection and design of sprayed bituminous treatment

Update to align with Austroads guidance.

Guidelines

Road Structure Durability Plans

Update to reflect current practice and knowledge.

Contracts

Road Maintenance Performance Contract (RMPC) and General Conditions of Contract (GCoC)

Inclusion of district and industry feedback including minor amendments to contract clauses and terminology for better clarity.

Manuals

Fauna Sensitive Road Design

Review, update and rationalisation of content from Volume 1 and Volume 2.

Road Planning and Design Manual (RPDM) – Volume 3

Part 1 – Introduction to Road Design

Harmonisation to the updated *Austroads Guide to Road Design* (AGRD) – Part 1 2020 (once released). The release of the updated AGRD Part 1 incorporates current Parts 2, 7 and 8.

Part 4B – Roundabouts

Harmonisation to AGRD Part 4B (2015) and updated departmental guidance.

Part 6 – Roadside Design, Safety and Barriers

Amendments in line with update of AGRD Part 6. The departmental supplement will document a step change in the road design process, changing the way risk associated with roadsides and medians are assessed.

TMR Surveying Standards

Update of content to align with departmental standards and requirements.

Transport Noise Management Code of Practice Volume 3: Operational railway noise and vibration

This volume, once published, will replace the *Interim Guideline – Operational Railway Noise and Vibration*.

TRUM – Volume 2: Part 5 – Road Safety for Rural and Remote Areas

Analysis around the application of Audio Tactile Line Markings (ATLM) is being undertaken to determine if amendments to TRUM Volume 2 Part 5 are to occur.

Volume 4: Part 3 – Electrical Design for Roadside Devices

General review to bring the document in line with current practices. Focusing on portable generator design and Next GEN EFLI requirements.

Volume 4: Part 6 – Periodic verification guide for Traffic Signals, Road Lights and ITS equipment installations

Full comprehensive review of the entire document redefining all associated tests for ITS, TSC, road lighting and busway installations.

Volume 4: Part 8 – Electrical Verification Requirements for New or Altered Roadside Installations

General review, focusing on Next GEN EFLI requirements.

FUTURE WITHDRAWALS

Technical Notes

- TN66 Commercial and fabricated bolts and nuts
- TN68 VMS gantry installation procedure
- TN174 Purchasing guidelines for Transport and Main Roads major sign structures, and
- TN175 Selection and design of sprayed bituminous treatments.

Approved Products and Registered Suppliers

The department's Approved Products and Registered Suppliers for infrastructure works are frequently updated.

To see the status and how to register, view via [Approved Products and Registered Suppliers](#).

Definitions

SPECIFICATIONS and DRAWINGS: Rules and procedures by which a product, process or activity can be specified or defined.

CONTRACTS: The binding legal agreements between two parties.

TECHNICAL NOTES: Provide clarity or additional options not previously detailed in a specification, manual or guideline, or address emerging issues.

MANUALS: Technical information gathered into a single publication, discipline based.

POLICY: Provides a desired position and a guide for action.

GUIDELINES: Provide options on actions that will achieve optimal outcomes in line with Technical Standards.