

Transport and Main Roads Technical Notes

Amendment register

This register captures amendments to technical notes from July 2019 onwards.

Information about amendments prior to July 2019 may be incomplete or unavailable.

May 2026

TN	Title	Change type	Description of change
TN03	<i>Guidelines for construction-induced ground vibration on structures</i>	Administrative	<ul style="list-style-type: none"> Corrected descriptions in Table 5.1 and reference [6].
TN45	<i>Surface Finish of Prestressed Concrete Octagonal Piles</i>	Amendment	<ul style="list-style-type: none"> Title change from "<i>Treatment of Surfaces of Precast Octagonal Piles</i>" Updated to provide further clarification on MRTS73 <i>Manufacture of Prestressed Concrete Members and Stressing Units</i> specification requirements
TN50	<i>Surface Treatment of Prestressed Concrete Elements</i>	Amendment	<ul style="list-style-type: none"> Title change from "<i>Treatment of Surfaces of Precast Octagonal Piles</i>" Updated to provide further clarification on MRTS73 <i>Manufacture of Prestressed Concrete Members and Stressing Units</i> specification requirements

April 2026

TN	Title	Change type	Description of change
TN221	<i>Stockpile Guidance – AS 1141.3.1</i>	New	<ul style="list-style-type: none"> New document outlining the required sampling technique to be used in accordance with AS 1141.3.1 <i>Methods for sampling and testing aggregates, Method 3.1: Sampling - Aggregates</i>
TN222	<i>Sprayed Seal Crumb Rubber Modified Binders</i>	New	<ul style="list-style-type: none"> New document providing guidance for practitioners to achieve quality outcomes when using Crumb Rubber Modified Binders (CRMBs) in sprayed seals.

February 2026

TN	Title	Change type	Description of change
TN167	<i>A New Approach to Asphalt Pavement Design</i>	Withdrawal	<ul style="list-style-type: none"> Content has been incorporated into the Austroads <i>Guide to Pavement Technology Part 2: Pavement Structural Design</i>, updates to the <i>Pavement Design Supplement</i> and various NACOE reports.
TN219	<i>Design Constructability Assessments</i>	New	<ul style="list-style-type: none"> Provides clearer guidance on when and how constructability reviews should occur, including strengthened expectations for early engagement and more structured review steps. These changes improve consistency across projects and support earlier identification and resolution of constructability issues.
TN200	<i>Slip base pole clamping bolt tethering system installation</i>	Amendment	<ul style="list-style-type: none"> Retaining half nuts changed from 2 half nuts to a single half nut installed with thread locking compound.
TN220	<i>Requirements for Advance Warning Signals</i>	New	<ul style="list-style-type: none"> The new document will ensure a uniform implementation of AWS controlled by a traffic signal controller This document provides guidance on: <ul style="list-style-type: none"> – How to wire and install AWS in various applications.

TN	Title	Change type	Description of change
			– How a kit may be created to provide all components and wiring harnesses to assist in retrofitting on site.

December 2025

TN	Title	Change type	Description of change
TN175	<i>Selection and design of sprayed bituminous treatments</i>	Amendment	<ul style="list-style-type: none"> Comprehensive update, with guidance tailored specifically to Queensland and best operational practice. This guidance has been aligned with Austroads <i>Guide to Pavement Technology</i> Part 4K: <i>Selection and Design of Sprayed Seals</i> where appropriate.
TN193	<i>Use of recycled materials in road construction</i>	Amendment	<ul style="list-style-type: none"> Updated to reflect current opportunities to use recycled materials on TMR projects. It contains up-to-date information about recycled materials research and where and when recycled materials can be used and recycled materials research.
TN217	<i>Electrical periodic verification procedures for road lighting</i>	New	<ul style="list-style-type: none"> This technical note will be published for use by IMD Division and external contractors to carry out periodic verification.

November 2025

TN	Title	Change type	Description of change
TN143	<i>Rehabilitation technique and treatment prioritisation method of Plain Concrete Pavements (PCP)</i>	Withdrawn	<ul style="list-style-type: none"> See Rehabilitation technique and treatment prioritisation method of Plain Concrete Pavements (PCP).
TN185	<i>Project recognition signs</i>	Withdrawn	<ul style="list-style-type: none"> Content incorporated into Project Recognition Signs guideline.

TN	Title	Change type	Description of change
TN211	<i>Transport Noise Management Code of Practice Volume1 Supplementary Information</i>	Amendment	<ul style="list-style-type: none"> • This technical note has been developed to supplement the existing Transport Noise Management Code of Practice, Volume 1. This provides clarification for noise assessments and enhance TMR's ability to achieve its General Environmental Duty under the <i>Environmental Protection Act</i>. • This technical note provides clarity for consultants and project managers, leading to more consistent tendering, streamlined review processes, less project delays and better project results relating to noise. Additionally, the reduction of noise impacts to the community will be further strengthened with increased noise abatement performance checks through post construction compliance checking. There is also more robust determination of new road criteria, consideration of new road noise impacts in conjunction with existing state-controlled roads and consideration of approved developments for noise abatement. • Other clarifications are also provided for noise mitigation reporting, no measurable increase tests, traffic count requirements, noise descriptor corrections and minimum barrier noise reduction requirements.
TN216	<i>Embankment Fill Materials</i>	New	<ul style="list-style-type: none"> • Requirements for Class A1 material have been updated. • Alternative material types may be considered during the design and construction of road embankments, instead of relying on Class A1 material.

September 2025

TN	Title	Change type	Description of change
TN03	<i>Guidelines for construction-induced ground vibration on structures</i>	Amendment	<ul style="list-style-type: none"> • The current TN03 has notable gaps in 2 key areas that require attention:

TN	Title	Change type	Description of change
			<ul style="list-style-type: none"> – The specified vibration limits are outdated and do not align with the requirements of contemporary bridge widening and new bridge construction projects. – The roller setback distances are based on research conducted over 50 years ago, and they do not reflect advancements in modern construction technologies and methodologies. • In the meantime, the ownership of TN03 was transferred from TMR Geotech to TMR Structures. • Title change from <i>Measurement of Ground Vibrations and Airblast</i>.

July 2025

TN	Title	Change type	Description of change
TN159	<i>Treatment of Non-compliant Underground Wiring Systems (UWS) in Brownfield Installations.</i>	Amendment	<ul style="list-style-type: none"> • Updated Figure 4.2 with correct references.
TN163	<i>Third party utility infrastructure installation in state-controlled roads</i>	Withdrawn	<ul style="list-style-type: none"> • Content incorporated into the Non-Transport Utility Management and Design Manual.
TN206	<i>Guide to coding crashes</i>	Withdrawn	<ul style="list-style-type: none"> • Content incorporated into Queensland Road Safety Technical User Volumes (QRSTUV): Guide to Coding Crashes.
TN214	<i>Guide to Road Safety Part 2: Safer Roads Supplementary Guidance</i>	New	<ul style="list-style-type: none"> • This new technical note provides QGRS technical guidance for the treatment of crashes, audio tactile lines, rest area signage, convex mirrors, and local government waste management, not found in other TMR literature.

TN	Title	Change type	Description of change
			<ul style="list-style-type: none"> It must be read in conjunction with Queensland Guide to Road Safety (QGRS) Part 2.

June 2025

TN	Title	Change type	Description of change
TN148	<i>Asphalt mix design registration</i>	Amendment	<ul style="list-style-type: none"> The main updates to TN148 are related to, and support implementation of, the March 2024 updates to MRTS30 and MRTS32 which mandate the use of lower manufacturing temperatures and the inclusion of a Warm Mix Asphalt (WMA) additive in all asphalt mixes. These specification changes should reduce the emissions associated with manufacturing asphalt (when compared to the pre-March 2024 state) thereby supporting efforts to lower the carbon footprint of (constructing) transport infrastructure, improve sustainability outcomes and improve safety for workers on site. In addition, these specification updates and the supporting update to TN148 align with the TMR/AfPA Strategic Alliance Sustainability Pillar goals.) Additional changes relate to: <ul style="list-style-type: none"> simplifying the testing requirements for registration of dense graded asphalt mix designs that contain up to 15% of Reclaimed Asphalt Pavement (RAP) updating the asphalt mix design coding requirements to reduce the number of registered mix designs (by capturing multiple permitted permutations in one registration) and simplify the asphalt mix design register, and

TN	Title	Change type	Description of change
			<ul style="list-style-type: none"> allowing non-standard asphalt mix designs to be registered for use in small scale demonstration projects without the need for a production trial. This change helps reduce the costs associated with developing innovative non-standard mix designs for use in small scale demonstration projects. This option will no longer apply to fully confirming mix designs.

May 2025

TN	Title	Change type	Description of change
TN213	<i>Registration of nonstandard dense graded asphalt mixes containing bitumen adhesion agents instead of hydrated lime</i>	New	<ul style="list-style-type: none"> This new technical note provides a standard protocol for Prequalified Asphalt Contractors (PACs) to follow when submitting a non-standard asphalt mix design that includes a bitumen adhesion agent (BAA) instead of hydrated lime for registration. PACs are not obliged to seek registration of such mixes but may choose to do so.

March 2025

TN	Title	Change type	Description of change
TN23	<i>Design criteria for precast drainage pits</i>	Amendment	<ul style="list-style-type: none"> The design life for drainage pits has been updated to 50 years for pits up to 3 m deep and 100 years for deeper pits. Precast circular drainage pits and requirements for penetration size, design approval for proprietary pits, and rectangular precast pits with glass fibre reinforced polymer bars have been added.

December 2024

TN	Title	Change type	Description of change
TN159	<i>Treatment of Non-compliant Underground Wiring Systems (UWS) in Brownfield Installations.</i>	Amendment	<ul style="list-style-type: none"> • The amendment to TN159 introduces several key changes: <ul style="list-style-type: none"> – Expanded Scope: TN159 now covers the treatment of conduits with various non-compliances beyond just shallow ones, including considerations like conduit type (Section 2). – Title Change: Previously <i>Treatment of Under-depth Underground Wiring Systems (UWS) in Brownfield Installations.</i> – Clarification of Roles: Roles are clarified by defining the Principal Representative (Section 2.1). – Reference to TN166: TN159 now references TN166 and the application of electrical safety legislation (Section 3.2.1). – Risk Matrix: A Risk Matrix adapted from the TMR Risk Matrix is now included (Section 3.2.4). – Flexible Conduits Treatment: Treatment methods for flexible conduits are outlined (Section 4). – Installation of New Cables: Guidelines for installing new cables onto existing non-compliant conduits are provided (Section 4.4). – Labelling: Requirements for labelling are detailed (Section 4.5). – Appendix A: The superseded Standard Drawing 1421-1999 is included for reference. – Appendix B: An application example regarding Risk Analysis is provided. – Appendix C: Conduit capacities relative to the department's cables listed in MRTS256 are outlined.

TN	Title	Change type	Description of change
TN211	<i>Transport Noise Management Code of Practice Volume1 Supplementary Information</i>	New	<ul style="list-style-type: none"> New technical note provides a series of clarifications and methodologies to supplement the information and assessment process detailed in the Transport Noise Management Code of Practice, Volume 1.

July 2024

TN	Title	Change type	Description of change
TN189	<i>Generic Road Safety Camera Poles</i>	New	<ul style="list-style-type: none"> Outlines TMR requirements for generic Road Safety camera poles.
TN192	<i>Pavement rehabilitation – Investigation and analysis</i>	Withdrawn	<ul style="list-style-type: none"> Content incorporated into <i>Pavement investigation and analysis</i> guideline.
TN209	<i>Reduced Working Width for Single Slope Concrete Barrier Design</i>	Withdrawn	<ul style="list-style-type: none"> This document is now obsolete. TN209 has now been added as Appendix H in Road Planning and Design Manual – 2nd edition, Volume 3: Supplement to Austroads Guide to Road Design Part 6.

June 2024

TN	Title	Change type	Description of change
TN206	<i>Guide to coding crashes</i>	Amendment	<ul style="list-style-type: none"> Added a section on crash hierarchy for coding events. Added a new DRUM Code 407. Minor wording changes to the definitions of DRUM Codes throughout the document to clarify crash types and how they are to be coded. Clarification throughout the document for crashes related to parked vehicles and how these are to be coded.

TN	Title	Change type	Description of change
			<ul style="list-style-type: none"> • Clarification of how crashes are coded when a vehicle hits an object, or an object impacts with a vehicle. • Amended the DRUM code chart, DRUM cell definitions and DRUM coding decision tree to reflect the changes within TN206. • Minor changes to the DRUM code diagrams for 005,006, 018, 021, 110 and 311 to better illustrate the crash types. • Minor changes to DRUM code headings 701-705, 708, 709, 805 -809, 903. • Added Appendix C to explain the transition from DCA to DRUM protocol and explanation of what has changed. • The file TN206 DRUM information which is read in conjunction to the technical note was also updated to reflect the above changes as well as additional tabs added showing the DCA Code chart, and the translation from DRUM code to DCA code and from DCA code to DRUM code.

April 2024

TN	Title	Change type	Description of change
TN210	<i>Installation guidelines for extended range lantern supply conductors</i>	New	<ul style="list-style-type: none"> • New technical note provides guidelines and references for extended range lantern supply conductors installations.

March 2024

TN	Title	Change type	Description of change
TN123	<i>Flow charts for selection of gantries for Intelligent Transport Systems (ITS) devices</i>	Withdrawn	<ul style="list-style-type: none"> This publication has been superseded by the Queensland Guide to Smart Motorways (QGSM).

November 2023

TN	Title	Change type	Description of change
TN38	<i>Longitudinal grades for footpaths, walkways and bikeways</i>	Withdrawn	<ul style="list-style-type: none"> This document is now obsolete. Refer to harmonised guidance in RPDM – 2nd edition, Volume 3, Part 6A.
TN209	<i>Reduced Working Width for Single Slope Concrete Barrier Design</i>	New	<ul style="list-style-type: none"> New technical note that provides advice on the design of single slope concrete barriers for reduced working widths under the domain of Design Exception (DE). This advice has been developed in response to issues raised by internal stakeholders regarding the 0.9 m working width, which was adopted for single slope concrete barriers designed according to the 2014 version of RPDM Volume 3 Part 6. This width is significantly narrower than the up to 2.4 m requirement in the current 2022 version of RPDM Volume 3 Part 6. This technical note outlines the potential use of DE, rather than costly road widening particularly where significant roadside structures (e.g. bridge piers) limit the adoption of Normal Design Domain (NDD) design parameters.

July 2023

TN	Title	Change type	Description of change
TN148	<i>Asphalt mix design registration</i>	Amendment	<ul style="list-style-type: none"> • Clause 3 has been added to explain the requirements of registering an asphalt manufacturing plant. • Clause 4.1 has been expanded to clarify the difference between using a laboratory versus production mix for mix design submission testing and the associated restriction on use. • Clause 4.3.1 (b)(ii) has been simplified by removing information provided elsewhere in the document. • Clause 4.4 has been amended to clarify a time frame for the testing of production trial asphalt prior to mix design submission. • Clause 4.5.1 has been amended to allow a reduced level of testing for asphalt mixes that contain up to 15% RAP, where the mix design has the same binder content and grading of a registered 0% design. • Clause 4.8 is a new clause outlining the requirements surrounding the use of asphalt rejuvenating oils. • Clause 4.10 has been updated to require the relevant TMR Quarry Reference number to be added to the mix design certificate and updated guidance on what to include in the statement when the mix design does not fully comply with the Technical Specification requirements. • Clause 5 has been updated to allow for a 3-year mix design duration if the contractor provides submits their aggregate test results on an annual basis. • Clause 7 has been added to address registration of non-standard and nonconforming mix designs.

TN	Title	Change type	Description of change
			<ul style="list-style-type: none"> Appendix A1 has been updated to include the use of recycled glass aggregate and crumb rubber binder and appendix A2 has been updated to reflect the current list of contractors prequalified to manufacture asphalt for TMR.
TN163	<i>Third party utility infrastructure installation in state-controlled roads</i>	Amendment	<ul style="list-style-type: none"> The document has been revised in line with current industry standards and provides additional clarity for improved design and management of Third-Party Utility infrastructure installations that meet the departments expectations.
TN180	<i>Yellow box marking at signalised intersections</i>	Withdrawn	<ul style="list-style-type: none"> Content is now included in AS 1742.2-2022, which is accepted in Queensland.
TN194	<i>Conversion from PE cell controlled power to 24/7 power and electrical clearance hazard remediation for Rate 3 switchboards</i>	Amendment	<ul style="list-style-type: none"> Title change, notable NPL 3 to Rate 3. Edits to tariff terminology. Clarification of when changeover activities should occur. Improved advice when warning sticker should be placed on pillar mounted switchboards.

June 2023

TN	Title	Change type	Description of change
TN205	<i>Use of extended design domain for the lateral placement of road safety barriers</i>	Admin update	<ul style="list-style-type: none"> Updated Ramshield W-Beam product advice contact to Safe Direction.
TN208	<i>Managing Slaking and Dispersive Soil risks in transport infrastructure projects</i>	New	<ul style="list-style-type: none"> New technical note providing guidance on the management and treatment of Slaking and Dispersive Soils, to assist planners, designers, project managers, construction contractors and maintenance personnel in minimising the risk of issues arising during construction and underperformance of road assets in-service.

May 2023

TN	Title	Change type	Description of change
TN182	<i>Traffic management of border crossings and closures</i>	Withdrawn	<ul style="list-style-type: none"> Withdrawn as no longer necessary in managing COVID-19 as per Queensland Government policy of this time.
TN207	<i>Planning for safe transport infrastructure at schools – Bicycle parking</i>	New	<ul style="list-style-type: none"> This new technical note provides up-to-date guidance on the provision, design and location of bicycle, scooter and skateboard parking facilities in Queensland schools. The technical note takes precedence over and replaces bicycle parking-related content in the Planning for Safe Transport Infrastructure at Schools Technical Guidance. The technical note has been updated following a review of best practice approaches to school bicycle parking facilities and provides greater flexibility in determining the amount of bicycle/scooter/skateboard parking to be provided as part of new and upgraded schools. It also includes more detailed guidance on where to locate these facilities and best practice design features that should be incorporated. The inclusion of scooter and skateboard parking facilities is a key change to the previous guidance, which only considered facilities for bicycles.

March 2023

TN	Title	Change type	Description of change
TN205	<i>Use of extended design domain for the lateral placement of road safety barriers</i>	New	<ul style="list-style-type: none"> A new technical note that provides clarification regarding TMR's definition of the Normal and Extended Design Domains for the lateral placement of the road safety barrier with respect to the hinge point.

TN	Title	Change type	Description of change
			<ul style="list-style-type: none"> This clarification has been prepared in response to issues, raised by internal stakeholders, encountered in retrofitting road safety barriers in constrained corridors where funding is limited; particularly those funded under the Targeted Road Safety Program (TRSP). This technical note outlines the potential use of EDD, rather than designing costly road widening works to achieve NDD in the lateral placement of a road safety barriers.
TN147	<i>Recommended interim treatment for crash-damaged public domain steel beam guardrail infrastructure</i>	Amendment	<ul style="list-style-type: none"> The document has been restructured, and editorial changes have been made throughout to improve readability. Advice regarding the use of non-MASH (as well as MASH) tested products has been included to reflect our latest guidance with respect to barrier products. The section on interim treatment has been updated to reflect current traffic engineering standards, Queensland Manual of Uniform Traffic Control Devices (Queensland MUTCD).

December 2022

TN	Title	Change type	Description of change
TN27	<i>Guidelines for design of precast concrete box culvert pipe and headwalls</i>	Amendment	<ul style="list-style-type: none"> Requirement to use sloping headwalls are added for small culverts sizes. Driveable culvert endwalls are not permitted to use in TMR projects because they are not manufactured by TMR registered precaster. Also concerns have been raised within TMR that are associated with road safety, pedestrian safety, hydraulic efficiency and lack of ability to easily clean and maintain. The required grout strength for staple joints is added. Updated references to current Australian Standards.

TN	Title	Change type	Description of change
			<ul style="list-style-type: none"> • Technical note is amended to align with recent updates to SD1243. Accordingly, each headwall connection types, and its applicable situations are included. It was added an Annexure table for selection of headwall connection types for each culvert situation. That can easily select the appropriate headwall connection types. • Cast in-situ headwall connection detail (SD1243) to be specified and applicable for all culvert sizes. This will be the TMR preferred connection detail. • Bolted connection details are specified as an alternative detail for culvert sizes up to 1200 mm (e.g. where there are limitations to supply cast in-situ concrete).

November 2022

TN	Title	Change type	Description of change
TN144	<i>Paint systems for MRTS88</i>	Amendment	<ul style="list-style-type: none"> • Multiple updates to ensure currency of information.
TN203	<i>Footpath or shared path speed zones for PMDs</i>	Withdrawn	<ul style="list-style-type: none"> • TN203 was published in relation to new rules and increased penalties apply for people riding personal mobility devices, such as e-scooters, in Queensland enacted from Tuesday 1 November 2022. A process was developed to determine whether the speed limit for personal mobility devices on a shared path should be 12km/h or 25 km/h and included in the Queensland Road Safety Technical User Volume (QRSTUV) Guide to Speed Management as part of the Queensland Guide to Road Safety harmonisation, released 30 November 2022.
TN204	<i>Mix design registration of plant-mixed cementitiously stabilised pavement material</i>	New	<ul style="list-style-type: none"> • Published for the mix design registration system for plant-mixed cementitiously stabilised pavement material. • Outlines the process and requirements for submission, evaluation, registration, and mid-term review of mis designs.

TN	Title	Change type	Description of change
			<ul style="list-style-type: none"> Mix design requirements removed from Technical Specifications MRTS08 and MRTS10 and instead included in this technical note.

October 2022

TN	Title	Change type	Description of change
TN202	<i>Vinyl wrapping of traffic signal controller cabinets</i>	New	<ul style="list-style-type: none"> Provides instruction on the use of an external vinyl film wrapping system for Traffic Signal Controller Cabinets (TSCCs). This technical note aims to specify the minimum and desirable requirements for the use of externally-applied vinyl cast film wrapping system for TSCCs. It describes the application and removal of vinyl cast film wrapping system for TSCCs to avoid the potential damage. This technical note must comply with the requirements of Australian Standard AS 2578 Traffic signal controllers, MRTS201 and other relevant TMR Technical Specifications and Australian Standards. A vinyl wrap may be desirable as a deterrent for graffiti or tagging on a TSCC.
TN203	<i>Footpath or shared path speed zones for PMDs</i>	New	<ul style="list-style-type: none"> Provides technical guidance to jurisdictions regarding the speed limit setting process for PMDs on shared paths.

September 2022

TN	Title	Change type	Description of change
TN115	<i>Signing and line marking for heavy vehicle interception sites</i>	Withdrawn	<ul style="list-style-type: none"> See Signing and line marking for heavy vehicle interception sites guideline.

July 2022

TN	Title	Change type	Description of change
TN125	<i>Long distance transport and extended placement times for concrete</i>	Amendment	<ul style="list-style-type: none"> Updated to align with July 2022 update to MRTS70.
TN198	<i>Placement and operation of Temporary Variable Message Signs (TVMSs)</i>	Withdrawn	<ul style="list-style-type: none"> Content incorporated into Section 6.10 of July 2022 update to Queensland Guide to Temporary Traffic Management Part 3.
TN200	<i>Slip base pole clamping bolt tethering system installation</i>	New	<ul style="list-style-type: none"> Provides step-by-step installation instructions to minimise the risk of harm to road users, damage to vehicles and road infrastructure.
TN59	<i>How green is our concrete?</i>	Withdrawn	<ul style="list-style-type: none"> Content previously incorporated into TN193.

June 2022

TN	Title	Change type	Description of change
TN185	<i>Project recognition signs</i>	Amendment	<ul style="list-style-type: none"> Updated to include a reference to project signage within Appendix A that has been specifically developed for the Natural Disaster Recovery Funding Arrangements (DRFA) Updated reference to address June 22 release of TN69 Banners on light poles Updated reference to Australian Standard AS 4687.
TN69	<i>Banners on light poles</i>	Amendment	<ul style="list-style-type: none"> TN69 reinstated with updated content.

January 2022

TN	Title	Change type	Description of change
TN170	<i>Township entry treatments (TETs)</i>	Amendment	<ul style="list-style-type: none"> Section 8.4 updated to reference the recently published MRTS110. Reference updated to new National Roads Safety Strategy 2021–2030 Contact details updated for Engineering and Technology's Pavements, Research and Innovation Unit if further information regarding MRTS110 is required.

December 2021

TN	Title	Change type	Description of change
TN157	<i>Underground Asset Information (Transport and Main Roads Surveying Standards)</i>	Amendment	<ul style="list-style-type: none"> Revised to reflect recently amended TMR Surveying Standards.
TN165	<i>Survey Marks (Transport and Main Roads Surveying Standards)</i>	Amendment	<ul style="list-style-type: none"> Revised to reflect recently amended TMR Surveying Standards.
TN181	<i>Guidelines for Design of Innovative Intersections 'Diverging Diamond Interchange'</i>	New	<ul style="list-style-type: none"> Provides interim advice on the geometric design methodology for Diverging Diamond Interchange (DDI) Intersection treatments on the Queensland State Controlled road network.
TN195	<i>Traffic Guidance Scheme (TGS) worked examples</i>	Amendment	<ul style="list-style-type: none"> Updates to Example 1. Updated Figure 4.1 due to changes in the technical standard. Updated Note 8 due to a change in technical standards for the location of the QUEUED TRAFFIC AHEAD text panel which is now required to be closest to traffic.

TN	Title	Change type	Description of change
			<ul style="list-style-type: none"> • Updated Notes 13 and 15 due to a change in technical standards to allow a larger distance between the lane status sign and the taper when the speed limit on the road is 80 km/h or greater. • Added new Figure 4.1(a) to show the impact of changing how speed limits are reduced impacts other signs and sign spacings. • Updated Note 20 to include details of other options for the 1200 x 300 multi-message sign panel for the lane not required to merge. • Updated Note 33 to correct terminology of the Primary PREPARE TO STOP sign and add Item (d) to include the possible relation of the ROADWORK AHEAD sign due to the new Primary PREPARE TO STOP sign location.
TN198	<i>Placement and operation of Temporary Variable Message Signs (TVMSs)</i>	Amendment	<ul style="list-style-type: none"> • New Clause 6 added for 'Other location requirements' to address the need to consider the location of other traffic control devices, sight lines and the presence of roadside advertising in determining the best location for the Temporary Variable Message Sign. • Existing Clauses 6 and 7 renumbered as 7 and 8 respectively.
TN199	<i>Guidance for the design of temporary roads</i>	New	<ul style="list-style-type: none"> • The following road design parameters have been identified where some guidance has been produced with regards to road design guidelines for temporary roads and there is evidence of design exceptions previously being successfully applied: <ul style="list-style-type: none"> – Cross section – lane widths, shoulder widths and barrier edge clearance. – Sight distance – particularly stopping sight distance. – Coordination of horizontal and vertical alignment. – Horizontal alignment. – Vertical alignment.

TN	Title	Change type	Description of change
			<ul style="list-style-type: none"> - Site access – acceleration and deceleration lanes for works vehicles at road worksites. - Temporary road safety barriers – warrants for use. - Turn treatment warrants for unsignalised intersections with short periods of higher traffic volumes. - Drainage.

November 2021

TN	Title	Change type	Description of change
TN161	<i>Registering extended design domain and design exception summary reports into GIMS</i>	Withdrawn	<ul style="list-style-type: none"> • Content incorporated into the Drafting and Design Presentation Standards Manual, Volume 1, Chapter 1.
TN23	<i>Design criteria for precast drainage pits</i>	Amendment	<ul style="list-style-type: none"> • Inclusion of Fibre Reinforced Concrete (FRC) pit design criteria and alternative design method by prototype testing for small drainage pits.

September 2021

TN	Title	Change type	Description of change
TN185	<i>Project recognition signs</i>	Amendment	<ul style="list-style-type: none"> • References to TC1842_1 and TC1842_2 replaced in Appendix A with TC1842_3 and TC1842_4 as per Transport Infrastructure Development Scheme Project Recognition policy.

August 2021

TN	Title	Change type	Description of change
TN198	<i>Placement and operation of Temporary Variable Message Signs (TVMSs)</i>	New	<ul style="list-style-type: none"> The Austroads <i>Guide to Temporary Traffic Management</i> (AGTTM) version 1.1 (yet to be published as of August 2021) proposes to include a new section <i>Placement and operation of Portable Variable Message Signs</i> in Part 3. The guidance contained in this new technical note is based on the information proposed to be included in the future publication update of AGTTM version 1.1, with additional material added which is specific to Queensland.

July 2021

TN	Title	Change type	Description of change
TN144	<i>Paint systems for MRTS88</i>	Updated	<ul style="list-style-type: none"> Multiple updates including the removal of Section 6.
TN195	<i>Traffic Guidance Scheme (TGS) worked examples</i>	New	<ul style="list-style-type: none"> Provides worked examples of the Traffic Guidance Scheme (TGS) development applicable for various work and road type scenarios, based on Australian Standard AS 1742.3, Austroads <i>Guide to Temporary Traffic Management</i>, the Queensland Manual of Uniform Traffic Control Devices, Queensland Guide to Temporary Traffic Management and TMR's Guideline – Traffic Management at Works on Roads.
TN197	<i>Provision of shade along paths</i>	Amendment	<ul style="list-style-type: none"> Changed 'Institute of Public Works Engineering Australasia' to the 'Institute of Public Works Engineering Australasia, Queensland'. The 2 are separate legal entities.

June 2021

TN	Title	Change type	Description of change
TN194	<i>Conversion from PE cell controlled power to 24/7 power and electrical clearance hazard remediation for Rate 3 switchboards</i>	New	<ul style="list-style-type: none">Provides guidance on the conversion of PE cell controlled power to 24/7 mains controlled power and the removal of screws from the facing escutcheon plate for departmental owned NPL 3 switchboards.

May 2021

TN	Title	Change type	Description of change
TN143	<i>Rehabilitation technique and treatment prioritisation method of Plain Concrete Pavements (PCP)</i>	Amendment	<ul style="list-style-type: none">Minor updates (updated references, rewording some clauses to improve clarity). Technical content unchanged.

April 2021

TN	Title	Change type	Description of change
TN160	<i>Vehicle Activated Signs (VAS)</i>	Amendment	<ul style="list-style-type: none">Updated to reflect corporate standards, general formatting and consistency. Reference to standards and clause numbers also updated.
TN170	<i>Township entry treatments (TETs)</i>	New	<ul style="list-style-type: none">This technical note is applicable to the site assessment and installation of Township Entry Treatments (TETs) on state-controlled roads and aims to assist professionals and practitioners to improve road safety by outlining best practices for the installation of TETs.

TN	Title	Change type	Description of change
TN185	<i>Project recognition signs</i>	Amendment	<ul style="list-style-type: none"> • Editorial changes to various clauses to assist readability. • Amendments to structural requirements following advice from TMR Structural unit (regarding signs, horizontal and vertical banners, and mesh fencing). • Additional design guidance for mesh screening. • Updates to district approval processes. • Replacement of the government tag line to 'Unite and Recover' on Traffic Control (TC) signs TC1240. • Inclusion of the new federal road safety program sign TC2349.
TN63	<i>Assessment of electrical pit products to MRTS78 and MRTS91</i>	Editorial	<ul style="list-style-type: none"> • Administrative change to batch approval certificates valid for five years from issuing date, instead of three years.

March 2021

TN	Title	Change type	Description of change
TN177	<i>Guidelines for the installation of electric vehicle charging station signs</i>	Withdrawn	<ul style="list-style-type: none"> • Content incorporated into Appendix F2 of Queensland Manual of Uniform Traffic Control Devices.
TN63	<i>Assessment of electrical pit products to MRTS78 and MRTS91</i>	Amendment	<ul style="list-style-type: none"> • Updated to reflect current requirements of MRTS91.

November 2020

TN	Title	Change type	Description of change
TN66	<i>Commercial and fabricated bolts and nuts</i>	Withdrawn	<ul style="list-style-type: none"> Content incorporated into MRTS278.
TN159	<i>Treatment of Non-compliant Underground Wiring Systems (UWS) in Brownfield Installations.</i>	Amendment	<ul style="list-style-type: none"> 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.

September 2020

TN	Title	Change type	Description of change
TN192	<i>Pavement rehabilitation – Investigation and analysis</i>	New	<ul style="list-style-type: none"> Provides guidance to project managers, pavement designers and pavement material testing personnel and contractors on how to assess the available pavement information and site conditions to plan and undertake pavement investigation work more accurately and efficiently.
TN193	<i>Use of recycled materials in road construction</i>	New	<ul style="list-style-type: none"> Relates to the use of recycled materials in road construction and maintenance which summarises and highlights the requirements of current Technical Specifications as well as areas of research.

August 2020

TN	Title	Change type	Description of change
TN185	<i>Project recognition signs</i>	Amendment	<ul style="list-style-type: none"> Updated to reflect the new government identifier 'Unite and Recover' replacing the previous 'Advancing Queensland' visual identity.

TN	Title	Change type	Description of change
TN191	<i>Reducing pedestrian delays</i>	New	<ul style="list-style-type: none"> • Intended for use by local governments and road operators in areas of high pedestrian activity. The additional treatments not yet included in existing guidance include setting an optimal maximum cycle time and pedestrian green wave. This technical note provides the description of the treatments, investigations to complete to determine if this treatment is effective for improving pedestrian delays and other considerations required for implementation. • See also Options for reducing pedestrian delays at traffic signals guideline.

July 2020

TN	Title	Change type	Description of change
TN148	<i>Asphalt mix design registration</i>	Amendment	<ul style="list-style-type: none"> • Clauses 3.1.1.1, 3.1.2.1 and 3.4.3 have been updated to include option of using recycled glass in asphalt. • Clause 3.1.1.1 has been updated to inform contractors that TN183 must be followed where they intend to incorporate more than 15% RAP in an asphalt mix. • Clause 3.4.3 has been amended to clarify requirements when more than 15% RAP is incorporated into an asphalt mix. • Clause 4 has been changed to include an explanation about the mix design expiry timeframe for EME2 mixes and formalises arrangements that are already in place. • Table A2 has been updated to reflect current departmental asphalt contractors. • Appendix C has been added to provide an example of a mix design certificate for high RAP content asphalt.

TN	Title	Change type	Description of change
TN163	<i>Third party utility infrastructure installation in state-controlled roads</i>	Amendment	<ul style="list-style-type: none"> Includes references to new MRTS56 Technical Specification suite and amendment to Section 3.1.

June 2020

TN	Title	Change type	Description of change
TN177	<i>Guidelines for the installation of electric vehicle charging station signs</i>	Amendment	<ul style="list-style-type: none"> To specify the pavement marking colour code for use on the pavement patch for parking bays.
TN185	<i>Project recognition signs</i>	Amendment	<ul style="list-style-type: none"> Details on out of scope, indemnification, added; design advice expanded, reference to PVC removed
TN190	<i>Construction and trafficking of high modulus asphalt (EME2)</i>	New	<ul style="list-style-type: none"> Assists people involved in TMR projects that include EME2 to understand more about the construction and trafficking of EME2, based on the experience of early projects that were monitored by TMR's Engineering & Technology Branch.

April 2020

TN	Title	Change type	Description of change
TN182	<i>Traffic management of border crossings and closures</i>	New	<ul style="list-style-type: none"> Provides examples and considerations for Temporary Traffic Management (TTM) at border crossings and closures as part of the ongoing quarantine efforts in response to the novel coronavirus.
TN185	<i>Project recognition signs</i>	New	<ul style="list-style-type: none"> Provides information on objectives of project signage, location of signage; warrants for project signage, signage layouts and templates, and guidance on design, erection, installation, maintenance, removal of signs.

March 2020

TN	Title	Change type	Description of change
TN113	<i>Diversion route signage</i>	Withdrawn	<ul style="list-style-type: none"> See TRUM manual, Volume 3, Part 9.
TN114	<i>Toll road signage guidelines</i>	Withdrawn	<ul style="list-style-type: none"> See TRUM manual, Volume 3, Part 10.
TN63	<i>Assessment of electrical pit products to MRTS78 and MRTS91</i>	Amendment	<ul style="list-style-type: none"> Updated to clarify requirements of TMR pit supply and testing for pit product Batch Approval.
TN63	<i>Assessment of electrical pit products to MRTS78 and MRTS91</i>	Amendment	<ul style="list-style-type: none"> Inclusion of additional tests on pit covers: No cracking, collapse or failure, as required by the new Australian Standard AS 3996:2019.

December 2019

TN	Title	Change type	Description of change
TN155	<i>Wide centre line treatment - interim advice</i>	Withdrawn	<ul style="list-style-type: none"> Content incorporated into the supplement to Austroads <i>Guide to Road Design</i>, the Road Planning and Design Manual – 2nd edition, Volume 3.

November 2019

TN	Title	Change type	Description of change
TN18	<i>Design criteria for motor grids</i>	Amendment	<ul style="list-style-type: none"> Minimum concrete strength for motor grids to MRTS70 shall be N32/30 for exposure classification up to B1 and S40/20 for higher classifications.
TN63	<i>Assessment of electrical pit products to MRTS78 and MRTS91</i>	Amendment	<ul style="list-style-type: none"> Updated to reflect MRTS91.

TN	Title	Change type	Description of change
TN119	<i>Changes to Technical Specification MRTS02 Provision for Traffic</i>	Withdrawn	<ul style="list-style-type: none"> This document is now obsolete.

October 2019

TN	Title	Change type	Description of change
TN122	<i>Quarry specific testing frequency project system</i>	Withdrawn	<ul style="list-style-type: none"> Replaced by TMR Quarry Registration System (QRS).
TN128	<i>Selection and design of cycle tracks</i>	Withdrawn	<ul style="list-style-type: none"> Replaced by Selection and design of cycle tracks guideline.
TN128 App. B	<i>Drawings</i>	Withdrawn	<ul style="list-style-type: none"> Incorporated into Selection and design of cycle tracks guideline.
TN156	<i>Use of remote piloted aerial system (RPAS)</i>	Withdrawn	<ul style="list-style-type: none"> Technical note withdrawn as content is out of date.

September 2019

TN	Title	Change type	Description of change
TN121	<i>Construction materials testing supplier registration system</i>	Withdrawn	<ul style="list-style-type: none"> Replaced by Construction Materials Testing (CMT) laboratory registration system.

August 2019

TN	Title	Change type	Description of change
TN159	<i>Treatment of Non-compliant Underground Wiring Systems (UWS) in Brownfield Installations.</i>	Amendment	<ul style="list-style-type: none"> To clarify the use of the 1.8 m earth rod in brownfield installations only.
TN186	<i>Sealing in cold weather conditions</i>	Amendment	<ul style="list-style-type: none"> Tables 8.1 and 8.2 published as interactive Word forms, retained as examples in the technical note.
TN187	<i>Controlled low-strength material for pipe installation</i>	New	<ul style="list-style-type: none"> Provides guidance for Contractors wishing to employ an alternative method for backfilling stormwater drainage pipes.
TN188	<i>Geometric design of innovative intersections 'displaced right turn'</i>	New	<ul style="list-style-type: none"> The 'displaced right turn' intersection treatment represents new and innovative design thinking for road infrastructure within Australia. TMR has initiated the development of preliminary design guidelines for such treatments to provide industry guidance and encouragement to consider this type of treatment as acceptable design solutions.

July 2019

TN	Title	Change type	Description of change
TN103	<i>Vandalism of plastic pipe under roads, rail and similar infrastructure</i>	Administrative	<ul style="list-style-type: none"> Minor editorial changes.
TN18	<i>Design criteria for motor grids</i>	Amendment	<ul style="list-style-type: none"> Incorporates changes to SD1561–SD1565 from the revised Australian Standard AS 3600 and approved supplier feedback.

TN	Title	Change type	Description of change
TN186	<i>Sealing in cold weather conditions</i>	New	<ul style="list-style-type: none"> Provides guidance about the risks of constructing sprayed seals during cold weather conditions.

Prior to July 2019

TN	Title	Change type	Description of change
EN07	<i>Conformance of modified polymer binders</i>		<ul style="list-style-type: none"> Records indicate this was published April 2011.
EN10	<i>Guideline for quarry assessment and registration</i>	Withdrawn	<ul style="list-style-type: none"> See Pavements, Materials and Geotechnical approved products and registered suppliers.
TN03	<i>Guidelines for construction-induced ground vibration on structures</i>		<ul style="list-style-type: none"> Records indicate this was published May 2013.
TN19	<i>Helical lock-seam corrugated steel pipe</i>	Withdrawn	<ul style="list-style-type: none"> See Technical Specification MRTS03 Drainage, Retaining Structures and Protective Treatments.
TN25	<i>Post tensioning anchorage approval</i>		<ul style="list-style-type: none"> Records indicate this was published June 2013.
TN29	<i>Duplex coatings on helical pipe culverts</i>	Withdrawn	<ul style="list-style-type: none"> Product no longer available.
TN38	<i>Longitudinal grades for footpaths, walkways and bikeways</i>	Withdrawn	<ul style="list-style-type: none"> This document is now obsolete. Withdrawn in November 2023. Refer to harmonised guidance in Road Planning and Design Manual Edition 2 Volume 3 Part 6A.
TN45	<i>Treatment of surfaces of precast octagonal piles</i>		<ul style="list-style-type: none"> Records indicate this was published November 2015.

TN	Title	Change type	Description of change
TN47	<i>Conformance requirements for bridge barrier</i>	Withdrawn	•
TN49	<i>Theft proofing of aluminium bridge rail and balustrade</i>		• Records indicate this was published November 2015.
TN50	<i>Treatment of top surface and 'construction joints' on deck units and girders</i>		• Records indicate this was published October 2015.
TN54	<i>Fibre composite projects</i>		• Records indicate this was published January 2015.
TN59	<i>How green is our concrete?</i>		• Content previously incorporated in TN193.
TN60	<i>Materials test certificates acceptance</i>		• Records indicate this was published November 2015.
TN61	<i>Use of storage and hydrogen-controlled electrodes</i>		• Records indicate this was published November 2015.
TN62	<i>Assembly and tensioning of high strength bolts and nuts</i> <i>Part 1: Class 8.8</i> <i>Part 2: Class 10.9</i> <i>Part 3: Class 4.6.</i>		• Records indicate this was published November 2015.
TN64	<i>Tensioning and retensioning of slip base pole bolts</i>		• Records indicate this was published November 2015.
TN67	<i>VMS gantry repair procedure</i>		• Records indicate this was published August 2015.

TN	Title	Change type	Description of change
TN68	<i>VMS gantry installation procedure</i>	Withdrawn	<ul style="list-style-type: none"> Content incorporated into MRTS61 Suite.
TN71	<i>Issue of Queensland Sprayer Certificate - requirements and process for the issue of a Queensland Sprayer Certificate</i>	Withdrawn	<ul style="list-style-type: none"> See Pavements, Materials and Geotechnical approved products and registered suppliers
TN73	<i>Use of combined steel and plastic pit covers for circular cable pits</i>	Withdrawn	<ul style="list-style-type: none"> Content incorporated in MRTS91 Suite.
TN74	<i>Structural design procedure of pavements on lime stabilised subgrades</i>	Withdrawn	<ul style="list-style-type: none"> See Structural design procedure of pavements on lime stabilised subgrades guideline.
TN75	<i>Registration of mix designs for asphalt manufactured using warm mix asphalt technologies</i>	Withdrawn	<ul style="list-style-type: none"> See TN148 and the department's asphalt Technical Specifications.
TN99	<i>Sulphate reducing bacteria on steel structures</i>		<ul style="list-style-type: none"> Records indicate this was published November 2015.
TN102	<i>Selecting testing frequencies for acceptance sampling of pavement materials</i>	Withdrawn	<ul style="list-style-type: none">
TN104	<i>Guidelines for asphalt mix design assessment</i>	Withdrawn	<ul style="list-style-type: none"> See TN148 and the department's asphalt Technical Specifications.
TN105	<i>Grates</i>	Withdrawn	<ul style="list-style-type: none"> Records indicate this was withdrawn July 2015.

TN	Title	Change type	Description of change
TN105	<i>Grates</i>		<ul style="list-style-type: none"> Records indicate this was published July 2012.
TN106	<i>Crevice corrosion defect</i>		<ul style="list-style-type: none"> Records indicate this was published November 2015.
TN107	<i>Steelwork inspection requirements</i>		<ul style="list-style-type: none"> Records indicate this was published November 2015.
TN108	<i>Mid-block bicycle lane termination treatments</i>	Withdrawn	<ul style="list-style-type: none"> See Queensland Manual of Uniform Traffic Control Devices Part 9.
TN109	<i>Video record keeping of traffic management at roadworks</i>	Withdrawn	<ul style="list-style-type: none"> See Queensland Manual of Uniform Traffic Control Devices Part 3.
TN110	<i>Wildlife signage guidelines</i>	Withdrawn	<ul style="list-style-type: none"> See TRUM manual, Volume 3, Part 8.
TN111	<i>Drive tourism and welcome signage guidelines</i>	Withdrawn	<ul style="list-style-type: none"> See TRUM manual, Volume 3, Part 7.
TN115	<i>Signing and line marking for heavy vehicle interception sites</i>		<ul style="list-style-type: none"> Records indicate this was published April 2015.
TN117	<i>Tourist signs for commercial tourist attractions on state-controlled roads</i>	Withdrawn	<ul style="list-style-type: none"> See TRUM manual Volume 3, Part 7.
TN118	<i>Sealing of unsealed roads with low traffic</i>		<ul style="list-style-type: none"> See Western Queensland Best Practice Guidelines WQ35. Records indicate this was withdrawn July 2015.
TN120	<i>Changes to Part 3 of the Manual of Uniform Traffic Control Devices: Works on Roads</i>	Withdrawn	<ul style="list-style-type: none"> See Manual of Uniform Traffic Control Devices Part 3.

TN	Title	Change type	Description of change
TN123	<i>Flow charts for selection of gantries for Intelligent Transport Systems (ITS) devices</i>		<ul style="list-style-type: none"> Records indicate this was published September 2014.
TN124	<i>Durability issues of reinforced concrete driven piles</i>		<ul style="list-style-type: none"> Records indicate this was published September 2014.
TN125	<i>Long distance transport and extended placement times for concrete</i>		<ul style="list-style-type: none"> Records indicate this was published September 2014.
TN126	<i>Pavement design supplement</i>	Withdrawn	<ul style="list-style-type: none"> See Pavement Design Supplement.
TN127	<i>Asphalt procurement harmonisation with Roads and Maritime Services</i>	Withdrawn	<ul style="list-style-type: none">
TN129	<i>LUMS system performance specification</i>		<ul style="list-style-type: none"> Records indicate this was published April 2015.
TN130	<i>Speed management on shared paths</i>	Withdrawn	<ul style="list-style-type: none"> See Speed management on shared paths guideline
TN131	<i>Shared path and bicycle path termination treatments</i>	Withdrawn	<ul style="list-style-type: none"> See TRUM manual, Volume 1, Part 6.
TN132	<i>Maintenance minimisation guidelines for walking and cycling facilities</i>	Withdrawn	<ul style="list-style-type: none"> See Maintenance minimisation for walking and cycling facilities guideline.

TN	Title	Change type	Description of change
TN133	<i>Guidance on the widths of shared paths and separated bicycle paths</i>	Withdrawn	<ul style="list-style-type: none"> • See Austroads Guide to Road Design Part 6A Paths for Walking and Cycling.
TN136	<i>Providing for cyclists on roundabouts</i>	Withdrawn	<ul style="list-style-type: none"> • See Providing for people walking and riding at roundabouts guideline.
TN136	<i>Providing for cyclists on roundabouts: Appendix B – Bicycle crash prediction tool for Queensland roundabouts</i>	Withdrawn	<ul style="list-style-type: none"> • See Providing for people walking and riding at roundabouts guideline.
TN137	<i>Bicycle activated warning signs</i>	Withdrawn	<ul style="list-style-type: none"> • See TRUM manual Volume 1 Guide to Traffic Management Part 10 Traffic Control and Communication Devices.
TN138	<i>Verge parking and indented parking</i>	Withdrawn	<ul style="list-style-type: none"> • See Road Planning and Design Manual, Volume 3, Part 6B.
TN139	<i>Use of on-street space (kerbside road space) for safer cycling</i>	Withdrawn	<ul style="list-style-type: none"> • See TRUM manual, Volume 1, Part 11.
TN140	<i>Source material assessment for subtype 2.5, subtype 3.5 and type 4 unbound pavement materials</i>		<ul style="list-style-type: none"> • Records indicate this was published March 2014.
TN141	<i>Using statistical cluster method to group deflection data for the purpose of pavement performance assessment and structural overlay</i>	Withdrawn	<ul style="list-style-type: none"> • See Statistical cluster analysis of deflection data for pavement structural identification and design guideline.

TN	Title	Change type	Description of change
TN142	<i>High modulus asphalt (EME2) pavement design</i>	Withdrawn	<ul style="list-style-type: none"> • See Pavement design supplement.
TN144	<i>Paint systems for MRTS88</i>		<ul style="list-style-type: none"> • Records indicate this was published December 2018.
TN145	<i>Use of residual current devices in departmental infrastructure</i>		<ul style="list-style-type: none"> • Records indicate this was published July 2015.
TN146	<i>Long term maintenance issues for bridges</i>		<ul style="list-style-type: none"> • Records indicate this was published January 2016.
TN149	<i>Testing of materials for cement or cementitious blend stabilisation</i>	Withdrawn	<ul style="list-style-type: none"> • See Materials Testing Manual Part 2.
TN150	<i>Testing of materials for foamed bitumen stabilisation</i>	Withdrawn	<ul style="list-style-type: none"> • See Materials Testing Manual Part 2.
TN151	<i>Testing of materials for lime stabilisation</i>	Withdrawn	<ul style="list-style-type: none"> • See Materials Testing Manual Part 2.
TN152	<i>Temporary use electrical generators for traffic signals</i>	Withdrawn	<ul style="list-style-type: none"> •
TN155	<i>Wide centre line treatment - interim advice</i>		<ul style="list-style-type: none"> • Records indicate this was published April 2017.
TN156	<i>Use of remote piloted aerial system (RPAS)</i>		<ul style="list-style-type: none"> • Records indicate this was published September 2016.
TN158	<i>Guide to the use of LED road lighting luminaires</i>		<ul style="list-style-type: none"> • Records indicate this was published November 2017.

TN	Title	Change type	Description of change
TN159	<i>Treatment of Non-compliant Underground Wiring Systems (UWS) in Brownfield Installations.</i>	New	<ul style="list-style-type: none"> • Address the problem of non-compliant or under-depth underground wiring systems in Brownfield sites which pose electrical risks to workers and members of the public. • Records indicate this was published February 2017.
TN160	<i>Vehicle Activated Signs (VAS)</i>		<ul style="list-style-type: none"> • Records indicate this was published August 2016.
TN161	<i>Registering extended design domain and design exception summary reports into GIMS</i>		<ul style="list-style-type: none"> • Records indicate this was published December 2018.
TN162	<i>Trench drains</i>		<ul style="list-style-type: none"> • Records indicate this was published August 2017.
TN165	<i>Survey Marks (Transport and Main Roads Surveying Standards)</i>		<ul style="list-style-type: none"> • Records indicate this was published February 2017.
TN167	<i>A new approach to asphalt pavement design</i>		<ul style="list-style-type: none"> • Records indicate this was published February 2017.
TN168	<i>Asphalt warranty and register of asphalt works not warrantied</i>		<ul style="list-style-type: none"> • Records indicate this was published March 2017.
TN169	<i>Fencing and edging treatments for cycling infrastructure</i>	Withdrawn	<ul style="list-style-type: none"> • See Fencing and edging treatments for cycling infrastructure guideline and associated Evaluation Tool,
TN171	<i>Use of high standard granular (HSG) bases in heavy duty unbound granular pavements</i>		<ul style="list-style-type: none"> • Records indicate this was published July 2017.
TN172	<i>36-core multicore cable for traffic signal installation</i>		<ul style="list-style-type: none"> • Records indicate this was published April 2017.

TN	Title	Change type	Description of change
TN173	<i>Tensioning hexagon nuts on lantern mounting bolts</i>		<ul style="list-style-type: none"> Records indicate this was published August 2017.
TN174	<i>Purchasing guidelines for Transport and Main Roads major sign structures</i>		<ul style="list-style-type: none"> Records indicate this was published October 2017.
TN175	<i>Selection and design of sprayed bituminous treatments</i>		<ul style="list-style-type: none"> Records indicate this was published October 2017.
TN176	<i>Vinyl sheet piles</i>	New	<ul style="list-style-type: none"> Vinyl sheet pile is a new product to Transport and Main Roads and is an option to consider for emergency applications where there is limited access for heavy machinery to drive steel sheet piles, gives its lost cost and ease of transport and installation. Records indicate this was published September 2018.
TN177	<i>Guidelines for the installation of electric vehicle charging station signs</i>	New	<ul style="list-style-type: none"> To ensure consistent signing of electric vehicle charging bays and direction signing to the charging stations. Records indicate this was published August 2017.
TN178	<i>Testing of materials for plant-mixed cement or cementitious blend stabilisation</i>	Withdrawn	<ul style="list-style-type: none"> See Materials Testing Manual Part 2.
TN179	<i>Testing of materials for plant-mixed foamed bitumen stabilisation</i>	Withdrawn	<ul style="list-style-type: none"> See Materials Testing Manual Part 2.