

Technical Documents Activity Report: Jul 2020 to Dec 2020

This activity report lists new, updated and superseded technical documents published for external partners and suppliers by Transport for NSW. For the latest updates, see [new, updated and withdrawn technical documents](#).

For further information or queries please contact [TechInfo](#).

Document	Doc Type	Status	Date	Change summary
<u>IC-DC-B58 – Bored Cast-in-Place Reinforced Concrete Piles (With Permanent Casing)</u>	Specification	Revised	30.11.20	Ed 3 Rev 0: Updated to accord with base (non-D&C) Specification B58 Ed 6/Rev 0.
<u>IC-DC-B59 Bored Cast-in-place Reinforced Concrete Piles (with Permanent Casing)</u>	Specification	Revised	30.11.20	Ed 3 Rev 0: Updated to accord with base (non-D&C) Specification B59 Ed 6/Rev 0
<u>IC-QA-B58 – Bored Cast-in-Place Reinforced Concrete Piles (With Permanent Casing)</u>	Specification	Revised	26.11.20	Ed 6 Rev 0: Clauses rearranged and reworded to improve clarity. Guide notes on use of permanent vs temporary casings, sloping bedrock and large diameter piles added. CCTV examination now done by Contractor. Comments on Clause 6.5 added.

Document	Doc Type	Status	Date	Change summary
<u>IC-QA-B59 – Bored Cast-in-Place Reinforced Concrete Piles (Without Permanent Casing)</u>	Specification	Revised	26.11.20	Ed 6 Rev 0: Clauses rearranged and reworded to improve clarity. Guide notes on use of permanent vs temporary casings, sloping bedrock and large diameters piles added. CCTV examination now done by Contractor. Comments on Clauses 6.5 added.
<u>IC-DC-R163 – Tunnel Ventilation Axial Fans</u>	Specification	Revised	20.11.20	Ed 1 Rev 3: Updated to accord with base (non-D&C) Specification R163 Ed 1/Rev 3.
<u>IC-DC-R164 – Tunnel Jet Fans</u>	Specification	Revised	20.11.20	Ed 1 Rev 3: Updated to accord with base (non-D&C) Specification R164 Ed 1/Rev 3.
<u>IC-DC-R165 – In-Tunnel Air Quality Monitors</u>	Specification	Revised	20.11.20	Ed 1 Rev 3: Updated to accord with base (non-D&C) Specification R165 Ed 1/Rev 2.
<u>IC-QA-R165 – In-Tunnel Air Quality Monitors</u>	Specification	Revised	18.11.20	Ed 1 Rev 2: Definitions and Acronyms updated. Requirement to fit lanyards to removable panels and covers added. Requirement for monitors to comply with AS/NZS 3580.18 added. Various clause definitions clarified and updated Referenced documents updated.
<u>IC-QA-R164 – Tunnel Jet Fans</u>	Specification	Revised	18.11.20	Ed 1 Rev 3: New clause titled "Motor Voltage Rating". New clause on "Fan Installation with VSDs". Subsequent clauses renumbered. Various clause definitions clarified and updated. Table notes added Annex A1. Reference documents updated at Annex M.
<u>IC-QA-R163 – Tunnel Ventilation Axial Fans</u>	Specification	Revised	18.11.20	Ed 1 Rev 3: New clause on bearing insulation for fans operated by VSD and new clause titled "Fan Installation with VSDs". Subsequent clauses renumbered. Various clause definitions clarified and updated. Table Notes Annex A1 and Annex A2 updated.
<u>Cyclist Safety at Light Rail Intersections</u>	Guide	New	06.11.20	Aims to assist with the safe design and development of cycle facilities at light rail intersections and serves as a tool for designers and subject matter experts when considering safety at these locations.

Document	Doc Type	Status	Date	Change summary
<u>IC-QA-B284 – Installation of Bridge Bearings</u>	Specification	Revised	06.11.20	Ed 3 Rev 2: Concrete substrate surface preparation clarified. Contents rearranged. Requirements of mortar pad thickness amended.
<u>IC-DC-B284 – Installation of Bridge Bearings</u>	Specification	Revised	06.11.20	Ed 2 Rev 2: Updated to accord with base (non-D&C) Specification B284 Ed 3 Rev 2.
<u>IC-QA-G75 – Geographic Information Systems (GIS)</u>	Specification	New	05.11.20	Sets out the requirements for undertaking Geographic Information System (GIS) Work, including: data file formats; naming conventions; metadata requirements; requirements for Cartographic Products; topology rules; coordinate reference systems. It also sets out the requirements on quality management and processes for assuring the quality of GIS data deliverables. This Specification may be used in a construction contract, or other types of contracts during any stage of the asset lifecycle.
<u>IC-QA-R053 – Concrete for General Works</u>	Specification	Revised	05.11.20	Ed 3 Rev 4: Reference to AS 1478.2 deleted. Referenced documents updated.
<u>IC-QA-R82 Lean-Mix Concrete Subbase</u>	Specification	Revised	05.11.20	Ed 4 Rev 3: Reference to AS 1478.2 deleted. Annex M Referenced documents updated. Ed 4 Rev 2: Minor editorial changes to improve clarity.
<u>IC-DC-R81 – No Fines Concrete Subbase</u>	Specification	Revised	05.11.20	Ed 2 Rev 1: Updated to accord with base (non-D&C) Specification R81 Ed 2/Rev 1.
<u>IC-DC-R82 – Lean-Mix Concrete Subbase</u>	Specification	Revised	05.11.20	Ed 2 Rev 3: Updated to accord with base (non-D&C) Specification R82 Ed 4/Rev 3.
<u>IC-DC-R053 – Concrete for General Works</u>	Specification	Revised	05.11.20	Ed 2 Rev 4: Updated to accord with base (non-D&C) Specification R53 Ed 3/Rev 4.

Document	Doc Type	Status	Date	Change summary
<u>IC-QA-R81 – No Fines Concrete Subbase</u>	Specification	Revised	04.11.20	ED 2 Rev 1: Reference to AS 1478.2 deleted. Referenced documents updated. Ed 2 Rev 0: Global changes, clauses rearranged and required to improve clarity.
<u>IC-QA-R064 – Soil Nailing</u>	Specification	Revised	04.11.20	Ed 1 Rev 7: "AS 1478" changed to "AS 1478.1". Referenced documents updated.
<u>IC-DC-R064 – Soil Nailing</u>	Specification	Revised	04.11.20	Ed 1 Rev 5: Updated to accord with base (non-D&C) Specification R64 Ed 1/Rev 7.
TETD 2019/04 - Use of Temporary Portable Rumble Strips in single lane operation	Technical Direction	Withdrawn	Nov 2020	<u>Traffic Control at worksites manual (TCAWS)</u>
TETD 2019/03 - Use of Portable Boom Barriers	Technical Direction	Withdrawn	Nov 2020	<u>Traffic Control at worksites manual (TCAWS)</u>
TETD 2019/02 - Use of Type 1 (Manual) Portable Traffic Signal Systems	Technical Direction	Withdrawn	Nov 2020	<u>Traffic Control at worksites manual (TCAWS)</u>
TDT 2009/07 - Police Speed Enforcement or Presence on RTA Work Sites	Technical Direction	Withdrawn	Nov 2020	<u>Traffic Control at worksites manual (TCAWS)</u>
<u>T153 – The half-life and expansion ratio of foamed bitumen</u>	Test Method	Revised	19.10.20	Issue 3: Template updated. Test method is revised to follow AGPT/T301 with some exceptions.

Document	Doc Type	Status	Date	Change summary
<u>T199 – Deflection testing of road formation</u>	Test Method	Revised	19.10.20	Issue 4: Template updated. Amendments to clauses as follows: Clause 1 - Context provided for this test method. Clauses 3-5 - Equipment, preparation, procedure clauses expanded. Clause 5 - Test pattern clarified, random pattern option removed. Clause 7 - Equations numbers added. Clause 9 - New section added for References. Appendix A - Grid pattern clarified.
<u>IC-QA-C017 – Major Roadworks and Bridgeworks</u>	Specification	Revised	19.10.20	Ed 2 Rev 63: Ed/Rev numbers against specifications updated. Pay Items for specification R81 updated.
<u>TTD 2020/05 Signage Selection for Driver Reviver Facilities</u>	Technical Direction	New	09.10.20	Specifies the options and requirements for sign posting driver reviver facilities in NSW.
<u>Register of Granular Materials</u>	Materials Register	Revised	08.10.20	Version 1.2: Flexible Pavements register.
<u>IC-QA-R54 – General Concrete Paving</u>	Specification	Revised	07.10.20	Ed 3 Rev 2: Statement added that kerb and channel, including kerb ramp, is covered in spec R15.
<u>Supplement to Australian Standard AS 1742.13-2009, Manual of Uniform Traffic Control Devices – Part 13: Local area traffic management</u>	Australian Standard Supplement	Revised	01.10.20	Version 3.1: Update supplement into new template. Update s2.4.2, s2.4.3, Fig.3.2, Fig. 3.3 & s.4.3.6 to include hump pedestrian barriers, hump drainage provision, advisory speed provisions.
<u>IC-QA-TS201 – Approval of ITS Field Equipment</u>	Specification	Revised	30.09.20	Ed 3 Rev 0: References to RMS changed to TfNSW. Approval Authority changed to Director Intelligent Transport Systems or delegate, following title changes.
<u>IC-QA-TS202 – Approval of ITS Solutions for Projects</u>	Specification	Revised	30.09.20	Ed 3 Rev 0: References to RMS changed to TfNSW.

Document	Doc Type	Status	Date	Change summary
<u>IC-QA-TS200 – Register of ITS Field Equipment</u>	Specification	Revised	29.09.20	Ed 3 Rev 0: Update to reflect change from Roads and Maritime services (RMS) to Transport for New South Wales (TfNSW) Updates to Annex A and B.
<u>IC-DC-B345 – Bridge Nameplates and Number Plates</u>	Specification	Revised	28.09.20	Ed 2 Rev 0: Updated to accord with base (non-D&C) Specification B345 Ed 4/Rev 0.
<u>IC-QA-B345 – Bridge Nameplates and Number Plates</u>	Specification	Revised	25.09.20	Ed 4 Rev 0: Clauses rearranged and reworded to improve clarity. Spec title changed. Guide Notes amended. List of Standard Bridge Drawings deleted. Link to Standard Bridge Drawings updated.
<u>TSI-TG-009 – Induction Loop Use in CRCP – Reinforcing Steel Replaced by GRGP</u>	Specification	New	16.09.20	Provide guidance on the requirements for preformed induction loop vehicle detectors on continuously reinforced concrete pavements (CRCP) with diamond grinding or thin asphalt layer as wearing surface.
<u>Traffic control at work sites Technical Manual</u>	Manual	Revised	14.09.20	Issue 6: Issue 6.0 of TCAWS provides the requirements for all temporary traffic control on NSW State Roads in line with recent industry and national practice updates. TCAWS Issue 6.0 aims to improve the safety of road workers and road users as they interact with roadwork sites in NSW.
<u>IC-QA-3211 – Cementitious Materials, Binders and Fillers</u>	Specification	Revised	10.09.20	Ed 5 Rev 0: Title changed. Clauses rearranged and reworded to improve clarity. Difference between cements, cementitious materials, and supplementary cementitious materials clarified. Definitions updated.
<u>IC-QA-R116 – Heavy Duty Dense Grade Asphalt</u>	Specification	Revised	10.09.20	Ed 9 Rev 1: Table L.2 – Frequency of testing stated clarified to be for total filler used in asphalt production.
<u>IC-QA-R117 – Light Duty Dense Graded Asphalt</u>	Specification	Revised	10.09.20	Ed 1 Rev 5: Table L.3 – Frequency of testing stated clarified to be for total filler used in asphalt production.

Document	Doc Type	Status	Date	Change summary
<u>IC-QA-R118 – Crumb Rubber Asphalt</u>	Specification	Revised	10.09.20	Ed 1 Rev 4: Table L.3 – Frequency of testing stated clarified to be for total filler used in asphalt production.
<u>IC-QA-R119 – Open Grade Asphalt</u>	Specification	Revised	10.09.20	Ed 1 Rev 5: Table L.3 – Frequency of testing stated clarified to be for total filler used in asphalt production.
<u>IC-QA-R121 – Stone Mastic Asphalt</u>	Specification	Revised	10.09.20	Ed 3 Rev 4: Table L.3 – Frequency of testing stated clarified to be for total filler used in asphalt production.
<u>IC-QA-R123 – Thin Open Graded Asphalt Surfacing</u>	Specification	Revised	10.09.20	Ed 2 Rev 2: Clause L2 – Frequency of testing stated clarified to be for filler used in asphalt production.
<u>IC-QA-R126 – High Modulus Asphalt (EME2)</u>	Specification	Revised	10.09.20	Ed 1 Rev 3: Table L.2 – Frequency of testing stated clarified to be for total filler used in asphalt production.
<u>IC-DC-R116 – Heavy Duty Dense Graded Asphalt</u>	Specification	Revised	10.09.20	Ed 2 Rev 1: Updated to accord with base (non-D&C) Specification R116 Ed 9/Rev 1.
<u>IC-DC-R117 – Light duty dense graded asphalt</u>	Specification	Revised	10.09.20	Ed 1 Rev 4: Updated to accord with base (non-D&C) Specification R117 Ed 1/Rev 5.
<u>IC-DC-R118 – Crumb Rubber Asphalt</u>	Specification	Revised	10.09.20	Ed 1 Rev 4: Updated to accord with base (non-D&C) Specification R118 Ed 1/Rev 4.
<u>IC-DC-R119 – Open Graded Asphalt</u>	Specification	Revised	10.09.20	Ed 1 Rev 3: Updated to accord with base (non-D&C) Specification R119 Ed 1/Rev 5.
<u>IC-DC-R121 – Stone Mastic Asphalt</u>	Specification	Revised	10.09.20	Ed 2 Rev 4: Updated to accord with base (non-D&C) Specification R121 Ed 3/Rev 4.
<u>IC-DC-R126 – High modulus asphalt (EME2)</u>	Specification	Revised	10.09.20	Ed 1 Rev 3: Updated to accord with base (non-D&C) Specification R126 Ed 1/Rev 3.

Document	Doc Type	Status	Date	Change summary
<u>IC-QA-B344 – Sprayed bituminous waterproofing membranes</u>	Specification	Revised	02.09.20	Ed 2 Rev 7: Reference spec for primer corrected to 3265. Referenced documents updated.
<u>IC-DC-3211 – Cementitious materials, binders and fillers</u>	Specification	Revised	31.08.20	Ed 2 Rev 0: Updated to accord with base (non-D&C) Specification 3211 Ed 5/Rev 0.
<u>TTD 2020/04 – Installation of Audio Tactile Linemarking</u>	Technical Direction	New	25.08.20	Specifies the installation requirements for audio-tactile linemarking on NSW State Roads. Additionally it supersedes in full TETD2019/01, and Section 5.2.6 of the Delineation guide Part 5 V1.6.
<u>TSI-SP-047 Dynamic direction signs</u>	Specification	New	20.08.20	Covers the general requirements for Dynamic Direction Signs. They are used in permanent positions above or adjacent to the roadway, in the state of New South Wales.
<u>IC-QA-G10 – Traffic Management</u>	Specification	Revised	12.08.20	Ed 3 Rev 4: Updated to accord with base (non-D&C) Specification G10 Ed 7/Rev 4.
<u>IC-DC-G10 – Traffic Management</u>	Specification	Revised	12.08.20	Ed 7 Rev 4: Redundant pavement markings to be in accordance with spec R145. Pay Item P1 – clarified that payment for permanent traffic control devices and permanent lighting to be made under other specs.
<u>T100 – Sampling road construction materials (Soil, Gravel, Sand, Aggregate, Rock and Recycled Products)</u>	Test Method	Revised	10.08.20	Issue 3: Clause 3, note added emphasising the correct labelling of the container. Clause 5, references to the AS standards moved to the references section
<u>IC-QA-G2-C2 – General Requirements (Major Contracts)</u>	Specification	Revised	10.08.20	Ed 5 Rev 22: Concreting training requirements extended to Spec R81 "No fines Concrete Subbase". Referenced documents updated.

Document	Doc Type	Status	Date	Change summary
<u>TSI-SP-081 – Type 1 Portable Traffic Signals with Boom Barrier</u>	Specification	New	05.08.20	Covers the requirements for TfNSW Type 1 Portable Traffic Signal Systems with Boom Barrier (Type 1 PTS-B) to be used in the state of NSW to control vehicular traffic, typically used to provide temporary control at short term roadworks. The Type 1 PTS-B only intends to be in partial compliance with the AS4191 [4] requirements. TfNSW Specification TSI-SP-049 [12] Portable Traffic Signal Systems defines general requirements for TfNSW Standard portable traffic signal systems (PTS) that are aligned with AS4191 [4] requirements.
<u>General Specification updates</u>	Specification	Revised	Jul/Aug 2020	Multiple specifications rebranded and references to "Roads and Maritime Services" or "RMS" changed to "Transport for NSW" or "TfNSW" respectively.
<u>Beyond the Pavement</u>	Guide	Revised	Jul 2020	Updated to include new projects and policies.
<u>IC-QA-C017 – Tender Form (Major Roadworks And Bridgeworks)</u>	Specification	Revised	31.07.20	Ed 2 Rev 61: Ed/Rev numbers against specifications updated. Pay Items for specification R116 updated.
<u>IC-QA-M787 – Bridge Deck Joint Repair – Design</u>	Specification	Revised	31.07.20	Ed 1 Rev 2: Spec "G11M" changed to "G10". Referenced documents updated.
<u>IC-DC-R116 – Heavy Duty Dense Graded Asphalt</u>	Specification	Revised	31.07.20	Ed 2 Rev 0: Updated to accord with base (non-D&C) Specification R116 Ed 9/Rev 0.
<u>IC-QA-R116 – Heavy Duty Dense Graded Asphalt</u>	Specification	Revised	28.07.20	Ed 9 Rev 0: Clauses rearranged and reworded to improve clarity. New guide note, cross referring to CQTD 2013/001, on problem caused by tackcoat. Previous clauses 1.1 and 1.2 consolidated under clause 1.1. Subsequent clauses renumbered. Requirements for asphalt performance after 24 months, moved to clause 5.1.
<u>IC-QA-TS101 – Traffic Control Signals – New Installation and Reconstruction</u>	Specification	Revised	24.07.20	Ed 2 Rev 2: References to "Roads and Maritime Services" or "RMS" changed to "Transport for NSW" or "TfNSW" respectively. Various amendments and changes.

Document	Doc Type	Status	Date	Change summary
<u>IC-DC-TS101 – Traffic Control Signals – New Installation and Reconstruction</u>	Specification	Revised	24.07.20	Ed 1 Rev 1: Updated to accord with base (non-D&C) Specification TS101 Ed 2/Rev 2. References to "Roads and Maritime Services" or "RMS" changed to "Transport for NSW" or "TfNSW" respectively. References to "RMS Representative" changed to "Principal".
<u>IC-QA-M782 – Bridge Bearing Repairs – Design</u>	Specification	Revised	22.07.20	Ed 1 Rev 2: Spec "G11M" changed to "G10". Referenced documents updated.
<u>T118 – Determination of the in situ California bearing ratio of road materials</u>	Test Method	Revised	08.07.20	Issue 2.1: Reformatted to TfNSW template. Australian Standard method number corrected.
<u>TSI-TG-001 – Submission Guide For Variable Message Signs</u>	Specification	Revised	08.07.20	Issue 4: Content change to Cell G15 of sheet 'TSI-SP-008 v6.0': Item 4.2 now requires supporting evidence, and an outline is given of what is expected.
<u>GTD 2020/001 – Excavation adjacent to Transport for NSW Infrastructure</u>	Technical Direction	New	02.07.20	The number and size of excavations in close proximity to Transport for NSW (TfNSW) infrastructure have increased steadily in recent years. It is imperative that the design and construction of these excavations including the supporting structures are adequate to provide security to the infrastructures and their operations.
GTD 2012/001 – Excavation adjacent to RMS Infrastructure	Technical Direction	Withdrawn	01.07.20	<u>GTD 2020/001 – Excavation adjacent to Transport for NSW Infrastructure</u>