



Construction Standard Specification 2022 – Amendments Summary

This summary highlights amendments made for the November 2022 version, when compared to the December 2019 version.
Grammar corrections are not included.

Clause references are to the new version unless stated otherwise.

Additional amendments are dated November 2023 and highlighted in yellow.

Additional amendments are dated May 2024 and highlighted in green.

CSS: All Parts

Part/Clause	Paragraph	Amendment Details	Date
All	Improvement	Hyperlinks URLS updated to reference the correct documents	November 2022
All	Improvement	Reference Documents Missing or incorrect reference documents corrected.	November 2022

CSS: Part 1 - General

Part/Clause	Paragraph	Amendment Details	Date
7	Updated	Temporary Traffic Control Updated due to the change in of the CTOC strcutrue.	November 2022
30	Updated	CTOC Changed CTOC Real time to CCC	November 2022
17	Updated	Clause change - Renamed clause 17 - Stockpiles and Surplus Materials and added sub-clauses. - Incorporated paragraphs from from CSS: Part 5 clause 11.2 pertaining to generals works.	November 2022
18.4	Updated	Clause change - Re-named clause 18.4 to Excavation at Private Property - Incorporated paragraphs from CSS Part 5 clause 7.2 pertaining to generals works	November 2022
30.1	Updated	CTOC references	November 2022

Construction Standard Specification 2022 – Amendments Summary

Part/Clause	Paragraph	Amendment Details	Date
		Changed CTOC to CCC Real Time Operations Team	
34	Updated	Water and Wastewater Permit to Work Specified the requirement for the different water supply and wastewater assets	November 2022

CSS: Part 1 – Standard Drawings

Drawing	Drawing Title	Previous Version	Amendment(s)
SD101	Trench Restoration	Dec-19	Sections updated

CSS: Part 2 - Earthworks

Part/Clause	Paragraph	Amendment Details	Date
6.2, Appendix 2	Updated	Pesticide, Herbicide and Fertiliser Application - Changed the requirement of compliance of pesticides and herbicides in clause 6.2 - Deleted Appendix 2 - CRC174020 and LWRP rule 5.22	November 2022

CSS: Part 3 - Drainage

Part/Clause	Paragraph	Amendment Details	Date
5	Updated	“Redundant” references and requirement - Replaced the references to “redundant” to “abandoned” where appropriate - Updated requirement on the treatment of asbestos cement pipes.	November 2022
6 , 8 SD 344/2 and SD344/3	Updated	Consistency of geotextile standard Referred the geotextile standards to TNZ F/7.	November 2022
7.2	Added	Jointing of PVC-M and PVC-U Pipe	

Construction Standard Specification 2022 – Amendments Summary

Part/Clause	Paragraph	Amendment Details	Date
		Included additional requirement.	
8.6, 8.12 Including: <i>Part 4 cl 9.7</i>	Updated	“Haunching and surround” references Replaced the references from “haunching and surround” to “embedment”	November 2022
New 8.11 and 8.12	Added	New clauses • New 8.11- Carrier Pipe and Duct Installation • New 8.12 – Measurement of Works and Basis of Payment (used to be 8.11 in the 2019 issue)	November 2022
8.12.1, 11.8 and 15.5.1	Updated	Imported backfill (supply and placement) Included the cost of imported in the rate for pipelaying.	November 2022
10.3	Updated	Ends of all junctions and riser pipes Changed plugging with glued fitting.	November 2022
14 Appendices – CCTV Drainage Summary Sheets	Updated	CCTV Inspection • Added the Guidance on PVC pipe ovality testing is available in CCC document “PVC Pipe Ovality Testing Guide (Dec2020)” as Appendix 8. • Updated the submission of the CCTV footage to the FME portal. • Added sub-clause on New Asset Naming Convention. • Deleted the CCTV Drainage Summary Sheets in the Appendices.	November 2022
8.6 Including: <i>Part 1 cl 32.5.1</i> <i>Part 4 cl 11.4.2</i> <i>and cl 1.4.2</i> <i>Part 6 cl 4.7,</i> <i>11.6.2, 11.7.1,</i> <i>12.9.1</i>	Updated	Compaction test requirement All nuclear densometer testing and results must be provided by an IANZ accredited tester.	November 2022

CSS: Part 3 – Standard Drawings

Drawing	Drawing Title	Previous Version	Amendment(s)
SD301-1	Circular Manhole Frames & Covers	Oct-16	Direction of traffic symbol changed
SD303-1	Circular Precast Manholes for Pipes Less Than 450ø OD	Oct-16	Note 3 added and 150 riser notes changed on details
SD305-3	Pressure Sewer Discharge into Manholes - Turbulent Discharge for Diameters DN90 to DN180	Dec-19	Note 6 added
SD308-1	Vacuum Pit and PE Manhole Lid Detail	Oct-16	Title changed and total pages updated to include new sheet 2
SD308-2	Pressure Sewer Tank Trafficable Lid Detail	New Sheet	
SD321-2	Side Entry Sumps Precast Kerb Unit	Feb-02	Note 1 added
SD322-1	Side Entry Enlarged Sump	Mar-13	Notes added
SD322-2	Single Enlarged Sump	Mar-13	Note 3 added
SD325-1	Single & Double Sumps Flat Channel	Oct-16	Note 6 added
SD327-1	Corner Sump	Dec-09	Note 2 renumbered and note 3 added
SD341-1	Pipelaying at Manholes & Sumps Concrete Pipes	Apr-14	Note 7 added
SD344-1	Concrete Pipe Joint Gap and Embedment Details	Dec-20	Shading on diagram changed and "See note 1" added to table
SD344-2	Flexible Pipes Embedment and Joint Details	Dec-20	Shading on diagram changed
SD344-3	Pipe and Manhole Soft Ground Foundation	Dec-19	Shading on diagram changed and incorrectly numbered note 2 changed to 3
SD383-1	Pressure Sewer Flushing Point	Dec-19	PSS box / lid and SV updated and flow direction added
SD384-1	Pressure Sewer Trafficable Property Boundary Kit	Dec-19	PSS box lid orientation turned 180°, "EF" added onto plan and "cut to a minimum to" section
SD384-2	Pressure Sewer Non-Trafficable Property Boundary Kit	Dec-19	PSS box lid orientation turned 180°
SD385-1	Pressure Sewer Valve Cover	Dec-19	PSS box lid updated and shims note removed
SD385-2	Service Cover Reinstatement	Dec-19	Shims note removed
SD386-1	Pressure Sewer System Chamber Typical Location	Dec-19	New details added and section / notes updated



Construction Standard Specification 2022 – Amendments Summary

Drawing	Drawing Title	Previous Version	Amendment(s)
SD387-1	Pressure Sewer Reticulation Details	Dec-19	PSS box lid orientation turned 180° and note 6 changed

CSS: Part 4 - Water Supply

Part/Clause	Paragraph	Amendment Details	Date
Part 4			November 2022
9.8.1	Updated	Well pointing Changed basis of payment for well pointing from a variation to being part of the excavation item.	November 2022
9.8.5	Updated	Geotextiles Separated raft foundation and updated the terminology “haunching” to embedment to be consistent across CSS.	November 2022
9.8.6	Added	New clause Raft Foundation	November 2022
10.1	Added	Jointing of PVC-U Pipe Added new requirement in the second paragraph.	November 2022
New 11.9 and 11.10	Added	New clauses - New 11.9 - Carrier Pipe and Duct Installation - New 11.10 – Measurement of Works and Basis of Payment (used to be 11.9 in the 2019 issue)	November 2022
12.6 and SD 411	Updated	Concrete strength of anchor blocks 40 MPa	November 2022
12.7 and 12.7.1	Updated	Removal of Fittings on Abandoned Pipes Replaced the references of “redundant” to “abandoned” where appropriate.	November 2022
16.3.4	Updated	Clause name Changed clause name from Water Meters over 20mm Diameter to Water Meters	November 2022



CSS: Part 4 – Standard Drawings

Drawing	Drawing Title	Previous Version	Amendment(s)
SD411-1	Thrust Blocks For Socket Pipe	Dec-19	Title changes and plan updated
SD411-2	Inline Thrust and Anchor Blocks For PE Pipe To Socket Pipe	Dec-19	Title changed and "watermain" added to plan notes
SD411-3	Inline Thrust and Anchor Blocks	Dec-19	Title changed. "Socket pipe" and "watermain" added to plan notes
SD444-1	Soft Ground Foundation	Dec-19	Shading on diagram changed and note 2 changed

CSS: Part 5 – Lights

Part/Clause	Paragraph	Amendment Details	Date
Part 5			November 2022
7.2	Updated	Clause 7.2 Excavations Within and Adjacent to Private Property Moved the second paragraph to Part 1 clause 18.4	November 2022
11.2	Updated	Disposal of Surplus Materials Moved paragraphs two to four to Part 1 clause 17.	November 2022

CSS: Part 5 – Standard Drawings

Drawing	Drawing Title	Previous Version	Amendment(s)
SD503-1	Typical Street Light Installation for H.V. /L.V. Distribution Pole - Type 1	Dec-09	Removed from CSS Part 5
SD504-1	Typical Street Light Installation for H.V. /L.V. Distribution Pole - Type 2	Dec-09	Removed from CSS Part 5



CSS: Part 6 – Roads

Part/Clause	Paragraph	Amendment Details	Date
Part 6			
5.8	Updated	Reinstatement of Cutdown Kerb to Full Height Kerb Added requirement in the second paragraph.	November 2022
6.6	Updated	Tack coat Added requirement in the second paragraph.	November 2022
25	Updated	Entire clause 25 Updated the entire clause to provide clearer guidance to the manufacture and installation of Council signs and to remove ambiguous statements from the existing wording in clause 25. The update is also to make CCC's requirements in line with the current Waka Kotahi documentation.	November 2023

CSS: Part 6 – Standard Drawings

Drawing	Drawing Title	Previous Version	Amendment(s)
SD601-1	Kerb & Flat Channel and Interpath Channel	Jun-05	Kerb and Flat Channel detail changed
SD605-1	Kerb Entry	Feb-02	Updated to be consistent with the new sheet 2
SD605-1	Twin Kerb Entry Adaptor Details	New Sheet	New details
SD607-1	Asphaltic Concrete Footpath & Vehicle Crossing Construction	Dec-19	Note 6 added and "Refer to SD601 Case A or B for details" note updated
SD614-1	Bus or Parking Bays	Oct-16	Details updated and or added
SD614-2	Bus Stop Raised Kerb	New Sheet	New details
SD614-3	Bus Stop Kerb and Channel Reinforcement at Sumps	New Sheet	New details
SD631-1	Road Hump Details	Dec-19	Road hump profile note changed to "35mm Asphaltic Concrete NZTA M/10:AC10"
SD634-1	Interlocking Concrete Block Edge Treatments	Oct-16	Note 4 added

Drawing	Drawing Title	Previous Version	Amendment(s)
SD635-1	Mid Block Pedestrian Island	Dec-19	RG17 'Keep Left' sign note changed removing "HIP reflectability"
SD635-2	Mid Block Pedestrian Island Details	Dec-19	Detail 'B' & Detail 'A' Changed & Typical Section Added
SD641-1	Typical Road Hump & Platform Roadmarking	Dec-19	Road Hump & Platform details redrawn and new note 1, note 3 changed and notes renumbered
SD644-1	Typical Bus Stop Road Marking	Dec-19	Layout, Detail and Notes changed. No seat or shelter Layout added
SD644-2	Typical Indented Bus Bay	New Sheet	New details
SD645-1	Roundabout Chevron / Name Board	Dec-19	Signfix removed from Installation Detail notes
SD647-1	Post Standard Installation Detail	Dec-19	Regulatory Parking Signs & Fluted Aluminium Pole Details changed. Notes table removed
SD647-2	Post Signage Installation Detail	New Sheet	New details
SD659-1	Typical Pedestrian Crossing Road Markings	May-13	Note 3 changed and stripes on detail changed to 0.6 wide at 1200 centres
SD660-1	Cycle Giveway & Supplementary Sign	Dec-19	Signfix references removed, socket fixing and dimensions changed
SD662-1	Street Name Blades	Nov-22	Original plan replaced with a new version that is in line with the changes in CSS Part 6 clause 25.
SD662-1	Street Name Blades	May-24	Text Change for note no2

CSS Part 7 – Landscapes

Part/Clause	Paragraph	Amendment Details	Date
Part 7			
Standard Details	Improvement	Titles SD 702/1 and SD 702/2 Changed to: <i>Tree Planting</i>	November 2022



Construction Standard Specification 2022 – Amendments Summary

Part/Clause	Paragraph	Amendment Details	Date
2.0	References deleted and replaced	New tree related references: MIS 308 and MIS 313 AS 4373 2007, BS 3998 2010, BS 4043 1989 and BS 5837 2012 replaced with new Minimum Industry Standards <i>MIS 308</i> and <i>MIS 313</i>	November 2022
4.3.1	Improvement	Self Supporting and Pruning Deletion and addition of text to align with MIS 313	November 2022
4.3.2	Improvement	Rootball Occupancy Added: <i>at least 90%</i> .	November 2022
4.3.3	Correction	Open Ground Trees (1 st paragraph) Deletion and addition of text to better align with other clauses	November 2022
4.4.1	Correction	Pruning Changed arboricultural to <i>horticultural</i>	November 2022
4.4.1	Correction	Trunk Position Added: <i>trunk/plant base</i> , and changed: <i>trunk</i> to <i>plant</i>	November 2022
4.4.2	Improvement /correction	Rootball Occupancy Added: <i>at least 90%</i> , and changed: <i>trunk</i> to <i>plant</i>	November 2022
5.2	Improvement	Supply and Collection (1 st paragraph) Added: <i>or acceptance by Council via non-conformance report (NCR) for subdivision developments</i>	November 2022
6.2	Improvement	Timing 1 st paragraph, added: <i>or acceptance by Council via non-conformance report (NCR) for subdivision developments</i> 2 nd paragraph, added: <i>or Council for subdivision developments</i>	November 2022
6.6	Improvement	Tree Pit Added 3 rd paragraph: <i>Root barriers shall not be installed within tree pits...</i> to align with SD 704 4 th paragraph, added: <i>first class unscreened and in accordance with CSS: Part 1...</i>	November 2022
6.7	Correction	Planting Last paragraph, added and deleted text to align with other clauses	November 2022
6.8	Improvement	Establishment 2 nd , 3 rd and 4 th paragraphs, reworded text to provide more clarity regarding existing requirements	November 2022

Construction Standard Specification 2022 – Amendments Summary

Part/Clause	Paragraph	Amendment Details	Date
6.10.2	Improvement	Establishment 2 nd paragraph, added: Where trees are not <i>replaced and/or</i> established ...	November 2022
7.1	Improvement	Scope of Work Added: <i>and soils are specified in CSS: Part 1 clause 38.0 Topsoil</i>	November 2022
7.3	Improvement	Setting Out 1 st paragraph, added: <i>Greater distances may be required ...</i>	November 2022
7.4	Improvement	Containerised Shrubs and Groundcover Added last paragraph to provide more clarity regarding existing requirements	November 2022
7.8	Improvement	‘Wetland’ Plants Deleted last paragraph, as not current best practice	November 2022
7.9	Improvement	Establishment 2 nd and 3 rd paragraphs, reworded text to provide more clarity regarding existing requirements	November 2022
7.10	Correction	Acceptance Criteria Added bullet points 4 and 5 to align with other clauses	November 2022
7.11.3	Correction	Establishment 2 nd paragraph, deleted as repeated in next paragraph 3 rd paragraph, added: where plants are not <i>replaced and/or</i> established ...	November 2022
8.2	Correction	Preparation Last paragraph, added: <i>trees and plants</i> more ...	November 2022
8.3.2	Improvement	Wool Mulch Matting ... 1 st paragraph, added: <i>Matting must not include plastic ...</i> to clarify existing requirements 3 rd paragraph, added text to align with current best practice	November 2022
9.2	Improvement	Tree Stakes 1 st paragraph, added text to align with current best practice 2 nd and 6 th paragraphs, added: <i>unless otherwise specified</i> Added last paragraph: <i>Stakes and ties shall be removed after 12 months ...</i>	November 2022



Construction Standard Specification 2022 – Amendments Summary

Part/Clause	Paragraph	Amendment Details	Date
10.2	Improvement	Construction 2 nd and 3 rd bullet points and last paragraph, reworded text to provide more clarity regarding existing requirements	November 2022
10.2	Correction	Construction Updated IDS reference to root barrier clearances table	November 2022
10.11.2	Correction	Construction Deleted reference to SD 705 (which has been deleted)	November 2022
14.1	Improvement	Scope of Work 3 rd and 4 th paragraph, reworded text to provide more clarity regarding existing requirements	November 2022
14.2	Improvement	Watering 2 nd and 3 rd paragraphs, reduced moisture reading depth, tree size and water quantity to align with current practice 5 th paragraph, reworded text to provide more clarity regarding existing requirements	November 2022
14.7.1	Correction	Vandalism and theft to Plants/Trees 2 nd and 3 rd paragraphs, reworded to align with clause title	November 2022
14.7.2	Correction	Losses Added: ... single <i>plant</i> species ...	November 2022
14.7.3	Improvement	Replacements 1 st paragraph, reworded text to provide more clarity regarding existing requirements 3 rd paragraph, added: Where trees/plants are not <i>replaced and/or</i> established ...	November 2022
14.9	Improvement	Monthly Establishment Report Reworded text to provide more clarity regarding existing requirements	November 2022
Appendix 2 Pt 7 09	Improvement	Staking Added: <i>Stakes and ties removed after 12 months.</i>	November 2022

Drawing	Drawing Title	Previous Version	Amendment(s)
---------	---------------	------------------	--------------

Construction Standard Specification 2022 – Amendments Summary

SD702-1	Tree Planting Street Trees	Dec-19	Title, hessian binding (incl. note) and 1/3 tree height dimension changed.
SD702-2	Tree Planting Reserve Trees	Dec-19	Title, hessian binding (incl. note), 1/3 tree height dimension and note 1 changed.
SD704-1	Tree Root Barrier	Dec-19	Hessian binding changed