

D11 WATER RETICULATION AMENDMENT HISTORY

Issue	Date	Amendment Description
N	August 2024	<ul style="list-style-type: none"> • <i>D11.01.02 subsection 10</i> – remove subsection 10 entirely as this document does not seem to exist any longer. • <i>D11.02.02</i> – amend wording for clarity and accuracy. • <i>D11.02.03</i> – amend wording for clarity and accuracy. Provide reference to the relevant table. • <i>D11.03.10</i> – add description and purchase spec reference for steel pipes (which were previously mentioned in the doc but not defined). • <i>D11.03.11</i> – amend definition of ‘premises’ to align exactly with the planning act. • <i>D11.04.04</i> – add “unless they have an equivalent approved coating”. • <i>D11.04.05</i> – remove reference to blue pipe and change colour specification to be in accordance with the relevant purchase spec. • <i>D11.05.02</i> – remove reference to roughness of 0.3mm (too high compared to Aus Standard) and add new table generally in accordance with AS2200-2006 Table 2. • <i>D11.06.01</i> – add reference to alternative software and update table D11.06.01. • <i>D11.06.01</i> – for Table D11.06.01 GRC software updated to WaterGEMs. • <i>D11.06.01</i> – for Table D11.06.01 LSC software updated to Infowater Pro. • <i>D11.06.04</i> – propose to remove the section shown on the basis that CMDG should not be directing provision for ‘future’ development that may not align with the development’s zone code. Provision for future development should be addressed as part of the planning approval process on a case-by-case basis. • <i>D11.06.05</i> – recommend to remove reference to covenants on the basis that covenants should not be used to limit areas of construction. Reference to property notes added. • <i>D11.06.06</i> – changed wording from permitted to required and specify CMDG standard drawing. • <i>D11.07.01</i> – we have reviewed the contents of Table D11.07.01 against each LGA’s standards of service per their planning schemes. It’s noted that GRC and LSC average day demands do not comply with their relevant planning scheme policies. • <i>D11.07.03</i> – removed conflicting statement regarding the defined building pad etc which conflicts with the table referenced by the same. • <i>D11.07.03</i> – for Table D11.07.03 update BSC specific requirements to match LSC/RRC. • <i>D11.07.05</i> – add section regarding the need for larger pipe where higher friction losses could be expected due to long runs of property connections.

		<ul style="list-style-type: none"> • <i>D11.07.06</i> – for Table D11.07.03 update “2 h” to “2 hours” etc for consistency with the rest of the table. • <i>D11.07.06</i> – for Table D11.07.03 CHRC specific requirements add 12m, 15L/s for 2 hours for low and medium density residential 30L/s for 4 hours for high density residential and commercial / industrial, and MHMD. • <i>D11.08.06</i> – updated wording to ‘State Controlled Road’ for consistency with current terminology. • <i>D11.09.03</i> – removed redundant reference to PVC from Table D11.09.01 heading. Updated PN16 to PN35 for DICL for IRC. • <i>D11.10</i> – change “Covers” to “Pipe Cover” for clarity. • Remove previous section <i>D11.10.07</i> as PE pipe should not have joint deflections. • <i>D11.10.02</i> – for Table D11.07.03 update BSC specific requirements to be 3 valves per tee. • <i>D11.11.01</i> – change wording from “at” to “in line with” to better define the location for hydrants. • <i>D11.11.03</i> – add reference to battle-axe lots for hydrant coverage. • <i>D11.11.10</i> – change wording from “at” to “in line with” to better define the location for valves. Also remove reference to standard drawing which was not applicable. • <i>D11.11.16</i> – add table. Add comment “Hydrant and valve box lids to be coloured blue for normally open valves, and red for normally closed valves (applicable for Rockhampton Regional Council only).” • <i>D11.12.01</i> – minor wording change. • <i>D11.13.01</i> – for Table D11.13.01 update • <i>D11.13.02</i> – add section to better define “marker post”. Type 1 and Type 2 are consistent with WSAA references and basically differentiate the small ~1m high urban post and the taller ~2m high rural post. This will be reflected in an updated marker post standard drawing. • <i>D11.13.03</i> – created Table 11.13.01 to define marker plate codes (noting the marker plate refers to the symbols shown on a marker post). This will be reflected in a new standard drawing. • <i>D11.13.04</i> – removed reference to other types of valves for clarity. • <i>D11.13.07</i> – Table D11.13.02 added to differentiate RRC vs all other LGA’s for valve spindle cap colours. • <i>D11.14</i> – Include the word ‘shall’. • <i>D11.14.01</i> – remove unnecessary capitalisation. • <i>D11.14.03</i> – minor rewording for clarity. • <i>D11.15.11</i> – for Table D11.15.05 CHRC specific requirements update from 25mm ID / 32mm OD to 50mm ID / 63mm OD. • <i>D11.15.03</i> – for Table D11.15.02 CHRC specific requirements add ‘yes’ to main tap inspection shaft required. • <i>D11.15.04</i> – change ‘water conduits’ to ‘road crossing conduits’ for clarity. • <i>D11.15.08</i> – change ‘plaque’ to ‘disc’ for clarity. Note future reference to this type of marker will be conformed to ‘disc’ and further info provided as part of drawing updates. • <i>D11.15.10</i> – for Table D11.15.04 change BSC specific requirements to “Short Single – 20mm ID / 25mm OD Short Dual, Long Single and Long Dual – 25mm ID / 32mm OD”. • <i>D11.15.11</i> – add ‘commercial’ to Table D11.15.05 header. • <i>D11.15.05</i> – for Table D11.15.05 change BSC specific requirements to “25mm ID / 32mm OD”. • <i>D11.18.01</i> – remove reference to cohesive testing for non-cohesive bedding sand.
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STORMWATER DRAINAGE DESIGN

		<ul style="list-style-type: none"> • <i>D11.18.02</i> – add sentence to clarify cohesive material should not be flooded. • <i>D11.18.03</i> – remove reference to cohesive testing for non-cohesive overlay sand. • <i>D11.18.04</i> – remove reference to cohesive testing for non-cohesive side material sand. • <i>D11.18.05</i> – amend wording of ‘excavated material’ to ‘approved select material’ to allow for oversight of quality of trench backfill material. Remove reference to flooding as this was referenced elsewhere in the section. • <i>D11.18.06</i> – add reference to ‘approved select material’ similar to <i>D11.18.05</i> to allow for material other than roadbase to be used – it could be reasonably expected that the site won fill could be >CBR 15. Remove reference to backfilling with sand. • <i>D11.19.03</i> – added word for clarity. • <i>D11.20.06</i> – updated Environmental Protection (Noise) Policy from 2008 to 2019. • <i>D11.22.02</i> – added wording for ‘where directed by water service provider’. • <i>D11.25.01</i> – for Table <i>D11.25.02</i> CHRC specific requirements add ‘yes’ to bacteriological testing required. • <i>D11.25.08</i> – updated WSA code version. • <i>D11.26.01</i> – add “Unless otherwise stated in a Decision Notice, the defects liability period shall be 12 months from the date of practical completion.”. • <i>D11.30</i> – minor changes for consistency. Updates to bedding and backfill compaction, expanded scope of testing to split cohesive/non-cohesive material testing apart. • <i>Generally</i> – updated “Dial Before You Dig (DBYD)” to “Before You Dig Australia (BYDA)”. • <i>Appendix D11E</i> - Updated GRC Commissioning of Drinking Water Asset Procedure has replaced the Annexure <i>D11E</i> previously identified as Testing Regime (Gladstone).
M	December 2022	Table <i>D11.09.01</i> PE grade changed to PN16 for LSC
L	January 2022	<ol style="list-style-type: none"> 1. Table <i>D11.06.01</i> LSC network analysis software amended to INFOWORKS 2. <i>D11.06.04</i> reworded for clarity (this clause relates to hydraulic capacity) 3. <i>D11.06.05</i> reworded to amend approach to areas of allotments which cannot be serviced by water supply 4. Table <i>D11.07.01</i> Design Demands amended for LSC and GRC 5. <i>D11.07.03</i> and Table <i>D11.07.02</i> amended to clarify water network modelling design requirements in relation to minimum pressures and node levels. 6. <i>D11.11.04</i> amended to clarify that GRC customers supplied via a constant flow network are not provided with a fire service
J	February 2020	Table <i>D11.09.01</i> PVC Minimum Water Main Pipe Classes amended Gladstone Regional Council from PN16 to PN12.5 for the PE pipe class.
K	April 2019	Clause for fire hydrants and urban spacing amended: <i>D11.11.02</i> For urban areas, fire hydrants shall be at maximum 80m spacing for all non-trunk water supply network mains and no more than 20m from the last furthest property frontage in a cul-de-sac. and located so that they comply with AS2419 hydrant location
J	December 2018	MRC kerb painting for hydrants updated
I	October 2018	D11 Changes
G	January 2018	IRC added
F	December 2016	Changes initiated by RRC details at this link .

E	May 2015	Changes to clarify LSC requirements. Note 2 new tables of difference 11.08.02 (Use of DI pipe) and 11.08.05 (Flanged valves and tees) were necessary to do this.
D	December 2014	LSC and GRC requirements added and multiple additional changes.
2	April 2013	New combined Design and Construction Specifications in draft for comment until 21 st June 2013