WSA 03 Water Supply Code of Australia

2020 Bega Valley Shire Addendum

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Contents

Part 1: Design

Section 2 – System Planning

Subsection 2.2.4 Non-drinking water as drinking water substitution

No substitution for non-drinking water shall be permitted.

Subsection 2.3.2 – Dual water supply systems

No dual water supply systems shall be permitted

Subsection 2.3.4 – Peak Demands

An average annual demand for water shall be 170 kL/ET/a. peak demands shall be determined as per subsections 2.3.4.2 and 2.3.4.3

Subsection 2.4 – System Configuration

Bega Valley Shire Council requires that dead end mains are minimised. In cul-de-sacs, there will be a reduced diameter return with 50 mm PN16 HDPE. 100 mm mains shall terminate no earlier than the second last lot on a cul-de-sac. i.e. no more than 2 lots serviced off the 50 mm reduced diameter main return. The system shall be configured to enable flushing of each diameter main individually.

Section 3

Subsection 3.3 Pressure Class of System Components

Minimum pressure rating of water pipes is PN16

Subsection 3.5 - System Test Pressure

The minimum test pressure for all reticulation mains shall be 1500 kPa.

Trunk mains shall be tested to 1500 kPa, or 1.25 times the operating pressure, whichever is the greatest.

Section 4 – Products and Materials

Reticulation Component		Colour
Pipe	PVC-O	Plain blue
	HDPE	Plain blue or black + blue stripe
	Ductile iron	Blue sleeving or plain with marker tape
Fitting		No specific colour requirement
Valve (spindle cap)		Blue coating
Hydrant (claws)		Blue coating
Hydrant lids		white
Stop valve – normally open lid		yellow
Stop valve – normally closed lid		blue
Stop valve – fire service lid		red
Marking tape		Blue or green

Subsection 4.6 – Steel Pipeline Systems

Only stainless steel permitted

Subsection 4.7 – GRP pipeline systems

No GRP pipeline systems permitted

Subsection 5.2.4 – Reduced size mains

Reduced size mains are permitted in Cul-de-sacs, where the number of properties serviced is a maximum of 2. The minimum reduced size main diameter shall be 50 mm HDPE.

Table 5.1 – Design requirements for reduced size drinking water mains in Court Bowls, Cul-de-sacs and dead ends

PE reduced size main	Min service pressure	Max length of reduced size main	Limiting Factor			Flushing Point required at end of main
DN	m head	m	Length (m)	OR	Number of DN20 properties connected	
63/50	30	50	50		2	NA

Table 5.2 – Default easement guidelines

The minimum easement width for all water mains is 3.0 metres.

Subsection 5.4.16 – Marking Tape

Subsection 5.4.16.2 – Mains

Only detectable marking tape shall be used.

Subsection 5.9 – Connection of new mains to existing mains

Under pressure cut ins are not generally approved. Inserted tee is the preferred method of connection.

Subsection 5.11.3 – Services, outlets and meters

Split services are only permitted (and in fact required) for services on the same lot (duplex, units, mixed use development, etc).

Section 7 – Structural Design

Subsection 7.4.2 – Pipe Cover

Table 7.2

Minimum depth in all instances shall be 600 mm, unless specified by another agency (e.g. TfNSW, NPWS, Forestry Corp, etc)

Minimum covers shall be established from the obvert of pipe and invert of the other structure.

In cut betters, the 600 mm cover shall be such that any driveway final surface (where driveways are reasonably anticipated) shall have 600 mm cover over the final (predicted) driveway level.

Section 8 – Appurtenances

Subsection 8.2.2.2 – Gate Valves

Valves shall be right turn close (Clockwise close).

Subsection 8.8.8 Hydrant Spacing

Hydrants shall be generally spaced at 90 m intervals with an absolute maximum of 120 m between hydrants. A hydrant shall be located within 60 m of a road intersection.