ADDENDUM TO WATER

SUPPLY CODE OF AUSTRALIA

WSA 03-2002

2.1 SYSTEM PLANNING PROCESS

2.1.1 Extending on Existing Water Supply Scheme

Where a water supply network simulation model exists Council shall assess the impacts of the proposed development on the existing water supply system. The assessment shall be based on the details of the system extension provided by the Consulting Engineer.

2.2 DEMANDS

Refer to Section DG 5.7 – Design Criteria of this Manual for the water supply demand requirements to be adopted in design.

2.4.3 Operating Pressures

Refer to Section DG 5.7 – Design Criteria of this Manual for operating pressure parameters to be adopted in design.

2.6 PUMPING STATIONS

2.6(c) Standby Arrangements:

Council requires standby pump units to be provided. The standby capacity shall be as directed by Council.

The power supply to pumping stations shall have 50% spare capacity for future upgrading and be electrically configured such that the pumping station can operate from an emergency generator supply at times of power failure (thus, a provision of space in the switchboard for a manual ATS change over panel is required).

2.7 SERVICE RESERVOIRS

Refer to Section DG 5.7 – Design Criteria of this Manual for storage parameters.

2.10 CONCEPT PLAN

Refer to Section AP 1.28 – Water Reticulation Concept Plan of this Manual for requirements for a Concept Plan.

3.2.3 Empirical sizing of reticulation mains

Table 3.1 is not to be used for sizing of reticulation mains. Refer to Section DG 5.7 - Design Criteria of this Manual for population and design flow requirements.

3.2.5.3 Hydraulic Roughness Valves

Refer to Section DG 5.7 – Design Criteria of this Manual for roughness values to be used in design.

The Hazen-Williams formula is to be used for head loss calculations.

3.7.2 Minimum pressure class

The minimum class for pipe and fittings shall be PN 16.

3.8 PIPELINE MATERIALS

Pipes used for water mains shall comply with the following table.

Nominal Size DN	Type of Pipe	Class of Pipe
63, 90	MDPE	Series 1 PE100 – SDR11 MIN PN
100 150, 200, 250,	PVC, PVC-M & PVC-	12
300	0	Series 2 MIN PN12
100, 150, 200, 250,	Ductile Iron	PN20, K9 & K12
300		

4.1.1 Design Tolerances

Horizontal alignment shall be referenced to the MGA co-ordinate system.

4.3 LOCATION OF WATER MAINS

4.3.1 General

The location and alignment of water mains shall generally be in accordance with Council's Standard Drawing.

4.4 SHARED TRENCHING

Shared trenching shall not be specified without prior approval of Council.

4.6 RIDER MAINS

Rider mains are not permitted.

4.7 CONNECTION OF NEW MAINS TO EXISTING MAINS

The connection of new water reticulation to Councils existing system is to be at the Developer's expense.

Council staff shall undertake all connections to Council's water infrastructure. The Contractor shall not carry out the connection unless Council gives special approval in exceptional circumstances.

4.8.3 Permanent ends of water mains

Dead Ends to water mains should be avoided. However, should Dead Ends be unavoidable, the following facilities shall be constructed to facilitate scouring of the lines;

• For mains 100m diameter or greater a hydrant shall be positioned at the end of the line.

4.10.7 Deviation of mains around structures

Deviation of mains around other structures shall only be permitted as a fully flanged offset complete with 1.200m tail pieces.

6.7 SWABBING POINTS

Swabbing points shall be provided where specified by Council.

6.8.3 Hydrant types

Hydrants shall be the spring hydrant "Maxi Flow" 2000 type (DN80) manufactured in accordance with AS 3952 by an Australian Standards quality endorsed company.

Hydrants are to be coated with a thermosetting epoxy powder to AS 2638 and AS 3952.

6.8.7 Hydrant Spacing

The maximum spacing between hydrants shall be 80 metres.

7.3 RECORDING OF WORK AS-CONSTRUCTED INFORMATION

As constructed information shall conform to Section CP 1.21 – Operational Works Construction Procedures of the WSC Development Manual.

11.5.4.2 Traffic Management

Traffic management shall be in accordance with the requirements of the authority responsible for the roads where construction activities are carried out.

15.2.3 Bending Pipe

Bending of pipes is not permitted.