

Warren Smith & Partners Pty Ltd

Bega Valley Hospital Hydraulic & Fire Services Utilities Report Prepared for DA Rev A

Health Infrastructure

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1. Introduction

This report briefly outlines the Existing Utilities Infrastructure and its capacity to service the proposed new Bega Valley Hospital located off Bega Tarthra Road

2. Potable Cold Water Supply

The Bega Hospital site is currently not fronted by a Water watermain network.

A suitably sized water will require to be extended from the existing network to service the site

The new connection is proposed to be fed from the existing 500mm feeder main within East Street. The new extension will be run along Howard Avenue to the hospital site, subject to Bega Valley Councils Approval.

The new water main will be suitably sized to supply flows to the site. Bega Valley council will be required to provide assessment of the new flows and capacities of their existing infrastructure.

A (1) one day potable water storage tank will be provide on the Bega Valley Hospital site to provide a continuing supply of water within a shutdown period of the water main network. This tank intern provides a buffer for the demands made on the existing network.

Water quality within the Bega Valley water network will be address by provision of a water softening plant up stream of the water storage tank.

The following water saving conservation devices will be explored for use within the development:-

- ❑ 3/4.5 Litre WC cisterns
- ❑ 0.8 L/sec automatic urinal flushing
- ❑ Water efficient tapware and appliances
- ❑ Piping of system for further reuse of waste reverse-osmosis water for sanitary flushing
- ❑ Piping of system for further reuse of sprinkler and hydrant test water for sanitary flushing
- ❑ Water metering of all major water uses and monitoring by the BMCS for leak detection

The potable cold water service will be designed and constructed in accordance with The Plumbing Code of Australia, AS 3500.1, National Plumbing and Drainage Part 1: Water Supply and Sydney Water requirements.

3. Sewer and Trade Waste Discharge

The Bega Hospital site is currently not serviced by a sewer drainage network.

A suitably sized sewer drainage connection will be required to be supplied within 1m of the sites boundary.

A new Bega Valley owned pumping station is proposed to be constructed with the above connection supplied from this pumping station for the hospital site, subject to Bega Valley Councils Approval.

The new pumping station will be suitably sized to drain the hospital site however, Bega Valley council will be required to provide assessment of the new flows and capacities of their existing infrastructure.

The sewer drainage systems will be designed and constructed in accordance with The Plumbing Code of Australia, AS 3500.2, National Plumbing and Drainage Part 2: Sanitary Plumbing and Sanitary Drainage and Sydney Water requirements.

All Trade Waste Drainage Systems will be designed and constructed in accordance with The Plumbing Code of Australia, AS 3500.2, National Plumbing and Drainage Code Part 2: Sanitary Plumbing and Sanitary Drainage, Sydney Water and EPA requirements.