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Review

CAMPBELLTOWN HOSPITAL REDEVELOPMENT

STAGE 2

Integrated Water Management Plan

Project No : 7951

Revision : Review Issue

Date : 6th June, 2018

REVISION SCHEDULE

NO	DATE	DESCRIPTION
1	25th May, 2017	Review Issue
2	6th June, 2017	Review Issue

☒	APPROVED	This document is issued for the purpose of the latest revision.
☐	UNCONTROLLED	Content in this document may differ from that contained in the latest revision.

Note: Revisions to the text of this specification section subsequent to Tender Issue are indicated with a vertical line and Revision number in the right margin.

Modified text - eg: Provide and install pressure switches and flow switches where required to ensure correct operation of the pumps.

Deleted text, no longer applicable - eg: ~~Provide and install pressure switches and flow switches where required to ensure correct operation of the pumps.~~

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1 INTRODUCTION

This Integrated Water Management Plan (IWMP) has been prepared for lodgement with the State Significant Development (SSD) application for the Campbelltown Hospital Stage 2 Redevelopment. The report should be read in conjunction with the complete stormwater management plan being developed by the civil consultant, Enstruct Group Pty Ltd.

The IWMP for Campbelltown Hospital Stage 2 Redevelopment project covers the Hospital redevelopment in Section 2. The IWMP addresses the measures that have been incorporated in this development to reduce the overall water consumption and minimise the effects of the rainwater discharge from the site.

2 CAMPBELLTOWN HOSPITAL STAGE 2

Water Sensitive Urban Design
Campbelltown Hospital consists of several buildings across the site. This report addresses the new stage 2 building only.
Campbelltown Hospital Stage 2 will incorporate the following Water Sensitive Urban Design measures

- Water efficent fixtures and fittings
- Contained fire services water testing
- Gross pollutant trap (refer to stormwater 5582-CIV-RP-002-A-SSDA Campbelltown Campus Redevelopment State Significant Fevelopment Application - Civil Enstruct Group Pty Ltd

Water services to the new building will be supplied from the existing internal Hospital water main. To reduce potential contamination of the potable water supply, backflow prevention devices will be installed as per the requirements of AS3500.

Internal Stormwater and Gross Polutant Trap

The rainwater will not be harvested for this project approximately 90% of the new building footprint will be drained via external down pipes and gutter into the inground drainage. The remaining 10% of the area is courtyards which will be drained via inground drainage. All of the inground strowater will be collected and discharge to the council stormwater system via a Stormwater Quality Improvement Device.

Eaves gutters and downpipes will be sized to drain a 1:100 year ARI event. A rainfall intensity of 220mm of a 5min/100year for the rainwater calculations is based on AS3500.3.2

Stormwater Summary
The report produced by ENSTRUCT GROUP PTY LTD will cover the external stormwater drainage and any gross polution traps that are to be installed.

Water Efficent Fixtrure and Fittings

All fittings and fixtures will be WELS star rated, the installation of water saving taps and outlets to reduce water consumption will be adopted. The following ratings are to be used

- 4 WELS stars rated dual flush toilets
- 4 WELS stars rated tapware
- 3 WELS stars rated shower

Fire Services

Fire services flow switch testing will be completed using zone flow test devices. This enables the testing of the flow switches to be completed with in a closed system (no discharge of water) using a recirculated pump assembly.

3 CONCLUSION

Based on the information presented

- The use of water efficient tapware will provide some benefit in reducing the water consumption
- The recirculation of fire services water used in the monthly testing will be reduced.