





Kensington Street Precinct Block 3B, 3C and 10

PA Stormwater Report

April 2012

Frasers Broadway Pty Ltd



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Executive Summary

Frasers are currently redeveloping the former Carlton United Brewery site, Central Park into a mixed use precinct. Mott MacDonald Hughes Trueman has been engaged by Frasers to undertake the detailed design of the roads and stormwater for Central Park. This report relates specifically to the proposed Block 3B, 3C and 10 within the precinct, as indicated on the General Arrangement Plan (Drg. MMD-300830-S-DR-CD-0002).

Mott MacDonald Hughes Trueman has previously undertaken a stormwater quantity management study for the whole site. This report has been submitted and approved by the local council and DoPI. The site stormwater reticulation system has been designed as part of this study and has been designed to accommodate flows resulting from the development of all Blocks on the site.

Measures related to sediment and erosion control are also addressed within this report.



1. Introduction

1.1 Existing Site

The Frasers Broadway site is bounded by Broadway, Abercrombie Street, O'Connor Street, Wellington Street and Kensington Street in Chippendale. The site is situated within the Blackwattle Bay (SWC 17) catchment. Blocks 3B and 3C are located on the eastern edge of the site, and are bounded by Kensington street to the east, Kent Road to the west, Block 3A to the north and Outram street to the south. Block 10 is located on the eastern edge of the site, and is bounded by Kensington Street to the west, Goold Street to the east, Block 7 to the north and Outram Street to the south.

1.2 Data

A surface and underground services survey of the site and road reserves surrounding the site was undertaken by surveyors Degotardi, Smith and Partners as part of the project investigation. This survey includes details of the trunk lines and local street drainage.

The following surveys have been referenced or used to form the base survey:

- Blackwattle Bay SWC 17 Asset Survey by AWT 1997
- Detail and Levels Survey of the Carlton & United Brewery Site by Degotardi, Smith & Partners – 6th July 2006
- Underground Services Survey of the Frasers Broadway Site by Degotardi, Smith & Partners – 12th February 2008
- Detail and Levels Survey of the Catchment Area South of Frasers Broadway Site by Degotardi, Smith & Partners – 25th February 2008

1.3 Existing Stormwater

An infrastructure package lodged as a separate PA (Main Park and Associated Infrastructure, Reference number MP08_0210) will be constructed prior to Blocks 3B, 3C and 10. Stormwater mains will run along O'Connor Street to the detention tank under the main park.



2. Proposed Development

2.1 Site Grading

Filling and grading of the site has been carefully considered and optimised respecting the following constraints:

- Proposed buildings and carpark entrances are above the 100 year ARI flood level including freeboard (where applicable);
- Flood depths on internal roads are safe for vehicles and pedestrians;
- Internal stormwater and kerb and gutter has sufficient grade to achieve self cleansing velocities; and
- Overland flow can be conveyed through the site without trapped low points.

2.2 | Site Stormwater Reticulation

The site stormwater system has been designed to accept the 20 year and 100 year design flows (piped and overland respectively) from Blocks 3B 3C and 10 and will be detained in a detention tank beneath the main park prior to being discharged to Sydney Water's stormwater mains.

The proposed Stormwater Reticulation for the site is indicated on HT Stormwater and Sediment & Erosion Control Concept Plan Drg. MMD-300830-S-DR-CD-0003.

2.3 Water Quality

Water quality management, water storage and harvesting issues for the site are being addressed by WSP Lincolne Scott.

An erosion and sediment control plan has been developed for works associated with Blocks 3B 3C and 10. Refer drawing MMD-300830-S-DR-CD-0001.



3. Conclusion

The site stormwater system has been designed to accommodate flows resulting from the development of all blocks within the site. Stormwater from Block 3B, 3C and 10 will reticulate to the site detention tank via a piped system along O'Connor Street.

Measures relating to erosion and sediment control will be implemented as part of the development works.



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Appendix A. Drawings

- MMD-300830-C-DR-CD-0001 Erosion and Sedimentation Control Plan for Blocks 3B, 3C and 10
- MMD-300830-S-DR-CD-0002 General Arrangement Plan
- MMD-300830-S-DR-CD-0003 Stormwater and Sediment & Erosion Control Concept Plan
- MMD-300830-S-DR-CD-0004 Sediment and Erosion Control Notes





