UNIVERSITY OF TECHNOLOGY
THOMAS STREET PROJECT

STATEMENT ON PROVISION OF SITE STORMWATER DRAINAGE, REUSE AND ON-SITE DETENTION SYSTEM

1.0 INTRODUCTION AND DEPARTMENT OF PLANNING DIRECTOR GENERAL'S REQUIREMENTS

This statement herein addresses the provision of a site stormwater drainage system for the proposed Thomas Street Campus development at the University of Technology, Sydney at the corner of Thomas and Jones Street, Ultimo and also aims to address the Department of Planning, Director General's requirements in relation to "Drainage and Stormwater".

2.0 PROPOSED ARCHITECTURE

The Architectural proposal consists of a large multi-storey building with five (5) upper floors, ground floor and three (3) basement as shown on the following drawings in relation to drainage:-

- Site Plan Drawing Drawing 1650.100
- Ground Floor Plan RL 14+ Drawing 1650.105
- Basement Level B1 RL8.5 Drawing 1650.104
- Roof Plan Drawing 1650.111

3.0 PROPOSED SITE DRAINAGE AND ON SITE DETENTION SYSTEM

It is proposed to capture all rainfall and runoff from the roof of the building via a Green roof which will provide relevant stormwater treatment via filter media. Stormwater runoff will be filtered by the specialist media and thereon transported within the site drainage system.

Drainage from the Ground Floor Colonnade areas and the Ground Floor external paved and landscaped areas will be collected with drainage outlets to drain to the on-site detention tank.

The stormwater will then pass through a proprietary gross pollutant trap which will be located below ground level and thereon filtered stormwater will be captured and attenuated within the proposed on-site detention (OSD) storage facility.

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Reference should be made to the attached Sydney Water correspondence, letter 13th July 2011 which provides requirements for on-site detention. A total of 32m^3 of storage is required to be provided and a restriction to flow (maximum permitted site discharge) of 65 L/sec in the 100 Year event. This equates to an outlet of 375mm in diameter and it is proposed to reticulate the site drainage pipe network to a connection point within the existing Sydney Water drainage pipeline system in Jones Street.

The combined OSD/Rainwater Reuse tank will be located within Basement Level B1 beneath the ground floor. In addition to the OSD tank there will be supplementary storage provided equal to 100 kL for the purpose of rainwater reuse which will be apportioned within the lower half of the combined OSD/Rainwater Reuse tank.

All stormwater drainage and overflow systems will be designed to cater for a 100 Year storm frequency event.

Rainwater is proposed to be used for irrigation on landscaped areas and for WC flushing.

A copy of the Sydney Water letter 13th July 2011 is enclosed.

4.0 REFERENCE DOCUMENTATION

- JBA list of Department of Planning / Director General requirements of 15th November 2011;
- Architectural drawings by Durbach Block Jaggers + BVN
  - Site Plan Drawing Drawing 1650.100
  - Ground Floor Plan RL 14+ Drawing 1650.105
  - Basement Level B1 RL8.5 Drawing 1650.104
  - Roof Plan Drawing 1650.111
- Sydney Water letter dated 13th July 2011 regarding On-site Detention Requirements.

By 2025, global demand for water will have grown by over 40%

Sydney WATER

Telephone: 8849 4459
Fax: 8849 4228
Officer: John Hyde
Our Ref.: 2011/00354F

13 July 2011

Warren Smith and Partners
1st Floor, 123 Clarence Street
Sydney NSW 2000

Attention: Mr Warren Smith

Dear Sir,

ON SITE DETENTION REQUIREMENTS
University of Technology, Broadway, Ultimo

With reference to your email dated 12 July 2011 regarding the above subject.

The requirements are to apply for a year from the date of this letter after which the requirements will be updated on reapplication.

1. An application fee of $275.70 is payable to Sydney Water.

2. On-Site Detention of stormwater will be required for stormwater discharge. A maximum permitted site discharge (P.S.D.) of 65 litres/sec and a minimum on-site storage of 32 cubic meters is required for storage of the excess flow from a 100 year A.R.I. design storm (Total Site Area 1757 square meter).

3. Hydraulic calculations and plans showing on-site storage are to be submitted for final approval prior to commencement of any drainage works.

4. Applicant should approach Council for their stormwater requirements including any floodway requirements.

Note: Upon completion of the work, the applicant is to submit a certified report from an appropriately qualified engineer or registered surveyor indicating that the OSD structure has been installed as per submitted plan.

If you have any questions about this Notice, you may contact the officer specified at the top of this notice.

Yours sincerely

Sgadevan

for John Hyde
Development Services Representative

Jeya Jegadevan

RECEIVED
14 JUL 2011