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CIVIL AND STRUCTURAL
ENGINEERS

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8th May 2017

Regiment Mixed Use Redevelopment Project **Response to Roads and Maritime Services query**

A query has been raised by the Roads and Maritime Services (RMS) through the Department of Planning during the assessment of the University of Sydney's Regiment Mixed Use Redevelopment project with regards to stormwater discharge.

Should the post development storm water discharge from the subject site into the Roads and Maritime system exceed the pre-development discharge, detailed design plans and hydraulic calculations of any charges are to be submitted to Roads and Maritime for approval, prior to the commencement of works on site.

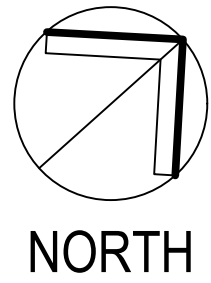
In response, all stormwater is to be collected in pits and pipes and outlet to Darlington Road via an OSD tank located at the eastern end of the development.

Due to the site being located at the top of the Blackwattle Bay catchment and hence no Authority drainage connection provided adjacent to the site, it is proposed for the OSD tank outlet to connect to the kerb in Darlington Road with a maximum discharge of 25 L/sec which is considerably less than the pre-development flows.

Yours sincerely,

Livio Chiarot
FIE Aust
Director – Civil
SCP CONSULTING PTY LTD





Key Plan

PRELIMINARY

NOT FOR CONSTRUCTION

02	FINAL DRAFT DA ISSUE	15.11.2016
01	DRAFT DA ISSUE	21.10.2016
Rev	Revision Description	Date



Client
THE UNIVERSITY OF SYDNEY
RICHARD CROOKES CONSTRUCTIONS
214 WILLOUGHBY ROAD, NAREMBUR NSW 2065

Project
DARLINGTON COLLEGE AND MIXED USE DEVELOPMENT

Title
**CIVIL WORKS
SITEWORKS AND STORMWATER
DRAINAGE PLAN**

Scale
0 5000 12500
1:250 @ A1

Drawn	Checked	Approved	Revision
K2L/JC	RG		
Project Number	Drawing Number		

160005 SCP-CV-DWG-0100 02

CITY ROAD

DEMOLISH AND REMOVE EXISTING VEHICLE CROSSING AND LAYBACK AND CONSTRUCT NEW HEAVY DUTY VEHICLE CROSSING AND LAYBACK TO RMS AND CITY OF SYDNEY DETAILS AND APPROVAL

DARLINGTON COLLEGE
FFL 41.40

CITY ROAD

CONSTRUCT GRATED DRAIN, TYPICAL

EXISTING SUPERINTENDENTS COTTAGE

CONSTRUCT 4m WIDE x 3m LONG BIO FILTRATION SWALE.

CONSTRUCT 1500 CONCRETE ENCASED STORMWATER PIPE FROM BFS UNDER PROPOSED BUILDING TO DISCHARGE INTO OSD

RAINWATER RE-USE TANK

MIN 2.5m WIDE x 150 HIGH OVERFLOW WEIR FROM RAINWATER TANK TO OSD TANK

ONSITE DETENTION TANK (OSD)

CONSTRUCT 2m WIDE x 10m LONG BIO FILTRATION SWALE (B.F.S.)

ONSITE DETENTION TANK (OSD), VOLUME = 485m³, SIZE APPROX 10m x 17m x 2.85m HIGH, TWL 40.90, OUTLET IL 38.05

1500 @ 1.0%
2250 @ 1.0%
CONSTRUCT 900x900 GRATED PIT WITH 750 WIDE x 350 HIGH OVERFLOW WEIR FROM OSD TO PIT.

CONSTRUCT 2 x 150mm WIDE x 100mm HIGH RHS.
CONNECT TO KERB IN ACCORDANCE WITH CITY OF SYDNEY REQUIREMENTS AND APPROVAL.
IL AT KERB APPROX 37.70.
(MAX DISCHARGE 25 l/s)

LEGEND

- OVERLAND FLOW PATH
- GRATED DRAIN
- BATTER WITH SLOPES 1(VERT): 3(HORIZONTAL) UNO
- STORMWATER DRAINAGE STRUCTURE
- STORMWATER DRAINAGE LINE
- STORMWATER DRAINAGE LINE CONCRETE ENCASED UNDER BUILDING

NOTE

- PROVIDE SUBSOIL AROUND ALL KERB AND EDGE OF PAVEMENT.
- ALL STORMWATER PITS SHALL BE 900x900 WITH CLASS D COVER/GRATE AND FRAMES.
- COVERS SHALL HAVE PAVERS TO MATCH LANDSCAPE PAVERS WHERE PIT IN PAVED AREAS. REFER TO LANDSCAPE DRAWINGS FOR PAVING
- CONNECT ALL SUBSOIL TO STORMWATER PITS.
- ALL PAVEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION WHEN DEMOLISHING TO CONSTRUCT NEW STORMWATER SYSTEM.
- ALL GRATED DRAINS SHALL BE ACO'S KLASSIKDRAIN K200 WITH ACO DRAIN CLASS D CAST IRON ANTI SLIP GRATE.
- EXISTING TREES SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION