

31 May 2018
Job Number: S152103-01

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Mr. Michael Jones
FDC Construction (NSW) Pty Ltd
22 - 24 Junction Street
Forest Lodge NSW 2037

Dear Michael,

RE: Civil Design Certificate for Chau Chau Wing Museum, Sydney University, Early Works CC1 Design Certification

Northrop Consulting Engineers Pty Ltd, as the civil engineering consultant for the above mentioned project, hereby certifies to FDC Construction (NSW) Pty Ltd that the design of the works shown on Northrop's drawings[#] (see below) for the civil components of the project has been carried out by qualified engineers and technical staff;

- generally in accordance with the document Managing Urban Stormwater – Soils & Construction Volume 1 (Landcom, 2004). (

[#]Note: Sediment and Erosion Control Design & Documentation referenced on ARUP Tender Issue drawings: JN:24817,

- Drawing: TE-CV-ARP-002 (00) General Notes & Legend (*Relevant Erosion & Sediment Control Notes Only*),
- Drawing: TE-CV-ARP-0010 (00) – Sediment and Erosion Control Notes and Typical Details,
- Drawing: TE-CV-ARP-0020 (00) – Sediment and Erosion Control Plan. *Note: location of sedimentation basin may be adjusted to suit site establishment, however, all disturbed catchment areas must drain to the sedimentation basin via gravity.*
- In accordance with the stormwater drainage requirements of City of Sydney Council & Sydney Water (with specific regard to on-site detention requirements). Both the hydrology and hydraulic calculations are based on models described in the current edition of Australian Rainfall and Runoff.

Civil Engineers drawings prepared by Northrop Consulting Engineers;

Drawing numbers: C01.01, C01.11, C01.12, C05.01, C05.11, C05.12, C05.21, C05.22, C05.41, C05.51, C05.52, C05.52, C05.53, C09.01, C09.02, C09.82 & C09.91

This certification is based on its professional opinion and on design assumptions that it has made in accordance with normal engineering practice. We trust you find this information satisfactory. If you have any queries please feel free to contact me – (02) 9241 4188.



Ben Lawrence
Civil Engineer (BE Civil & Environmental, Hons1, MIEAust)
NORTHROP CONSULTING ENGINEERS PTY LTD