

Level 11, 345 George Street, Sydney NSW 2000

T (02) 9241 4188 F (02) 9241 4324

E sydney@northrop.com.au ABN 81 094 433 100

02 June 2020

Isaac Pinkerton Richard Crookes Constructions Level 3, 4 Broadcast Way Artarmon NSW 2064

Dear Isaac.

Re: Alex Avenue Public School - Condition B21

Northrop Consulting Engineers Pty Ltd, as the civil engineering consultant for the above-mentioned project, hereby certifies to Richard Crookes Constructions that the civil engineering design has been undertaken in accordance with Condition B21 of SSD-9368 as noted below:

- B21. Prior to the commencement of construction (excluding earthworks / remediation / site establishment works), the applicant must submit details of the proposed stormwater management system to support the development to the satisfaction of Council and the Planning Secretary. The stormwater management system must:
 - (a) Be designed by a suitably qualified and experienced person (s);
 - (b) be generally in accordance with the conceptual design in the Supplementary Response to Submissions 2 and Appendix B of the document titled 'Review of Environmental Factors Stormwater and Drainage Services' dated 15 April 2020;
 - (c) discharge into Council's nominated discharge point (Drainage Reserve 886) immediately to the south of Lot 1/1209060;
 - (d) incorporate appropriate on-site detention and water quality measures;
 - (e) be in accordance with applicable Australian Standards and Part J of Blacktown Development Control Plan 2015 and Council's WSUD developer handbook Draft June 2013; and
 - (f) ensure that the system capacity has been designed in accordance with Australian Rainfall and Runoff (Engineers Australia, 2016) and Managing Urban Stormwater: Council Handbook (EPA, 1997) guidelines.

This certification is based on our professional opinion and on design assumptions that have been 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

Yours faithfully,

James Gilligan

BE (Civil) MIEAust CPEng NER

Senior Civil Engineer

On behalf o

Northrop Consulting Engineers