

Engineering Referral Response

Application Number:	DA2023/0714
Proposed Development:	Demolition works and alterations and additions to the Covenant Christian School
Date:	14/08/2023
To:	Alex Keller
Land to be developed (Address):	Lot 101 DP 1159742 , 212 Forest Way BELROSE NSW 2085 Lot 1 DP 725754 , 212 Forest Way BELROSE NSW 2085 Lot 2 DP 725754 , 212 Forest Way BELROSE NSW 2085

Reasons for referral

This application seeks consent for the following:

- New Dwellings or
- Applications that require OSD where additional impervious area exceeds 50m² or
- Alterations to existing or new driveways or
- Where proposals affect or are adjacent to Council drainage infrastructure incl. watercourses and drainage channels or
- Torrens, Stratum and Community Title Subdivisions or
- All new Commercial and Industrial and RFB Development with the exception of signage or
- Works/uses in flood affected areas

And as such, Council's development engineers are required to consider the likely impacts on drainage regimes.

Officer comments

The application for a new library building is not supported as the land has been identified as being affected by overland flow in a 1 /100 AEP storm event.

A flood/overland study prepared by a NER qualified hydraulic /civil engineer to identify the flood extents up to the PMF event. The flood/overland study is to be prepared using a 2D hydraulic like Rafts or Tu Flow to identify the flood extents, heights and velocities. Parameters in determining the flood extents, heights and velocities are to be detailed in the flood report . Councils existing stormwater drainage system within the site is to be modelled accordingly and pit blockage factors used as prescribed in Councils Auspec one design document.

The report in to be prepared in accordance with a Guide to Flood estimation of Australian Rainfall and Runoff 2019.

A Flood Management report is to be prepared addressing the former Warringah Development Control Plan section E11 Flood Prone land. The report is to determine the flood risk level and address the requirements of the matrix in particular Floor Levels C1 and C2 and flood effects caused by the development.

The proposal is therefore unsupported.

Note: Should you have any concerns with the referral comments above, please discuss these with the Responsible Officer.

Recommended Engineering Conditions:

Nil.