

Engineering Referral Response

Application Number:	Mod2018/0666
To:	Phil Lane
Land to be developed (Address):	Lot 31B DP 360383 , 60 Grandview Parade MONA VALE NSW 2103

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 proposed modification includes excavation greater than 1.5 metres in depth and as such a Geotechnical report in accordance with the Geotechnical Risk Management Policy for Pittwater is required for the application.

The proposed driveway grades are satisfactory and the proposed drainage amendment is satisfactory subject to conditions.

Development Engineers cannot support the application due to insufficient information to address Clause B8.1 of Pittwater 21 DCP 2014.

Additional Information Submitted 12/03/2019

The submitted Geotechnical report addresses the relevant DCP controls. Development Engineers raise no objection to the proposed modification subject to the following recommendations.

The approved plans in CONSENT N0150/17, "Stormwater Concept Plan, prepared by Archiblox, Drawing No. A.206, Job No. 1604, dated 14 August 2017" must be replaced by "Stormwater Concept Plan, prepared by Darren Campbell Architect, Drawing No A4.01, Revision A, dated 04/12/2018".

Under Heading Documents in Consent N0150/17 the following report is to be included.

- Geotechnical Investigation including Form 1 and Form 1A, prepared by White Geotechnical Group dated 6 March 2019

The following conditions in CONSENT N0150/17 are to be deleted.

C7. Engineering plans including specifications and details of the on-site stormwater detention system, are to be submitted to the Accredited Certifier or Council with the Construction Certificate application. Such details are to be accompanied by a certification by a qualified experienced practicing Civil Engineer with corporate membership of the Institute of Engineers Australia (M.I.E), or who is eligible to become a corporate member and has appropriate experience and competence in the related field, confirming that the plans/details comply with B5.7 of Pittwater 21 DCP.

Note: Where Council is the Principal Certifying Authority, 3 sets of engineering plans are to be submitted.

C9. Plans and details demonstrating that the following issues have been addressed are to be submitted to the Accredited Certifier with the Construction Certificate application.

A. Driveway profiles must be obtained from Council for all access driveways across the public road verge to road edge. The driveway profiles provided by Council must be incorporated into and attached to design plans for the access driveway and internal driveway.

B. A Deed of Agreement indemnifying Council must be entered into for construction of a cosmetic access driveway across the public road verge (i.e. other than a plain concrete finish).

C. All construction of the access driveway across the public road verge must be undertaken by a Council authorised contractor.

D. Council's Fees and Charges apply to driveway profiles and Deed of Agreement for Access Driveway.

C10. Applicants will be required to obtain prior to the issue of a Construction Certificate, a Section 139 Consent for Works on a Public Road Reserve issued by the Council under the provisions of Section 138 of the *Roads Act 1993* for the design and construction of any works located on the road reserve including Access Driveways.

C12. Prior to issue of the Construction Certificate, Form 2 of the Geotechnical Risk Management Policy for Pittwater (Appendix 5 of P21 DCP) is to be completed and submitted to the Accredited Certifier.

The following conditions of consent are to be included.

Referral Body Recommendation

Recommended for approval, subject to conditions

Refusal comments

Recommended Engineering Conditions:

CONDITIONS TO BE SATISFIED PRIOR TO THE ISSUE OF THE CONSTRUCTION CERTIFICATE

Geotechnical Report Recommendations have been Incorporated into Designs and Structural Plans

The recommendations of the risk assessment required to manage the hazards as identified in the Geotechnical Report prepared by White Geotechnical Group, dated 6 March 2019 are to be incorporated into the construction plans. Prior to issue of the Construction Certificate, Form 2 of the Geotechnical Risk Management Policy for Pittwater (Appendix 5 of P21 DCP) is to be completed and submitted to the Accredited Certifier. Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of the Construction Certificate.

Reason: To ensure geotechnical risk is mitigated appropriately.

Vehicle Driveway Gradients

Driveway gradients within the private property are not to exceed a gradient of 1 in 4 (25%) with a transition gradient of 1 in 10 (10%) for 1.5 metres prior to a level parking facility. Details demonstrating compliance are to be submitted to the Certifying Authority prior to the issue of the Construction Certificate

Reason: To ensure suitable vehicular access to private property

On-site Stormwater Detention

An On-site Stormwater Detention system must be designed and constructed in accordance with Northern Beaches Council's Clause B5.7 in PITTWATER DCP21" and generally in accordance with the concept drainage plans prepared by Darren Campbell Architect, Drawing No A4.01, Revision A, dated 04/12/2018.

Detailed drainage plans are to be prepared by a qualified experienced practicing Civil Engineer, with Corporate membership of the Institute of Engineers Australia (M.I.E.) or who is eligible to become a Corporate member and has appropriate experience and competence in the related field.

Detailed drainage plans are to be submitted to the Certifying Authority for approval prior to the issue of the Construction Certificate.

Reason: To ensure appropriate provision for the disposal of storm water and storm water management arising from the development.

Vehicle Crossings Application

A Driveway Levels and Formwork Inspections Application shall be made with Council subject to the payment of the fee in accordance with Council's Fees and Charges. The fee includes all Council inspections relating to the driveway construction and must be paid.

Approval of the application by Council is to be submitted to the Principal Certifying Authority prior to the issue of the Construction Certificate.

Reason: To facilitate suitable vehicular access to private property.

CONDITIONS TO BE COMPLIED WITH DURING DEMOLITION AND BUILDING WORK

Vehicle Crossings

The provision of one vehicle crossing 3 metres wide in accordance with Northern Beaches Council Drawing No A4-3330/2 NH and specifications. An Authorised Vehicle Crossing Contractor shall construct the vehicle crossing and associated works within the road reserve in plain concrete. All redundant laybacks and crossings are to be restored to footpath/grass. Prior to the pouring of concrete, the vehicle crossing is to be inspected by Council and a satisfactory "Vehicle Crossing Inspection" card issued.

Details demonstrating compliance are to be submitted to the Principal Certifying Authority.

Reason: To facilitate suitable vehicular access to private property.

CONDITIONS WHICH MUST BE COMPLIED WITH PRIOR TO THE ISSUE OF THE OCCUPATION CERTIFICATE

Authorisation of Legal Documentation Required for Onsite Detention

An application for the authorization of legal documents is to be submitted to Council for approval. The application is to include the original completed request forms (NSW Land Registry standard forms 13PC and/or 13RPA) with a copy of the Works-as-Executed plan(details overdrawn on the copy of the approved drainage plan), hydraulic engineers certification and photographs of the completed system.

Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of any interim / final Occupation Certificate.

Reason: To create encumbrances on the land.

Registration of Encumbrances for On-site Stormwater Detention

A copy of the certificate of title demonstrating the creation of the positive covenant and restriction for on-site storm water detention as to user is to be submitted. Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of any interim / final Occupation Certificate.

Reason: To identify encumbrances on land.

Positive Covenant and Restriction as to User for On-site Stormwater Detention

A positive covenant shall be created on the title of the land requiring the proprietor of the land to maintain the on-site stormwater detention structure in accordance with the standard requirements of Council. The terms of the positive covenant are to be prepared to Council's standard requirements at the applicant's expense and endorsed by Northern Beaches Council's delegate prior to lodgement with NSW Land Registry Services. Northern Beaches Council shall be nominated as the party to release, vary or modify such covenant.

A restriction as to user shall be created on the title over the on-site stormwater detention system, restricting any alteration to the levels and/or any construction on the land. The terms of such restriction are to be prepared to Council's standard requirements at the applicant's expense and endorsed by Council prior to lodgement with NSW Land Registry Services. Northern Beaches Council shall be nominated as the party to release, vary or modify such restriction.

Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of any interim / final Occupation Certificate.

Reason: To ensure the on-site detention and/or pump system is maintained to an appropriate operational standard.