

Engineering Referral Response

Application Number:	DA2020/0130
Date:	02/04/2020
To:	Catriona Shirley
Land to be developed (Address):	Lot 100 DP 509808 , 981 Barrenjoey Road PALM BEACH NSW 2108

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 development/site is located in Geotechnical Hazard H1 Area, an "Acceptable Risk Management" level is achievable in accordance with the geotechnical report. No Development Engineering objections subject to conditions.

The proposal is therefore supported.

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

Recommended Engineering Conditions:

FEES / CHARGES / CONTRIBUTIONS

Construction, Excavation and Associated Works Security Bond (Road works)

The applicant is to lodge a bond with Council of \$5000.00 as security against any damage or failure to complete the construction of road pavement/shoulder reconstruction works as part of this consent.

Details confirming payment of the bond are to be submitted to the Certifying Authority prior to the issue of the Construction Certificate.

Reason: Protection of Council's infrastructure.

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 Architects Ink dated 17 January 2020 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.

Traffic Management and Control

The Applicant is to submit an application for Traffic Management Plan to Council for approval prior to issue of Section 138 Road Act approval required by this consent. The Traffic Management Plan shall be prepared to RMS standards by an appropriately certified person.

Reason: To ensure appropriate measures have been considered for site access, storage and the operation of the site during all phases of the construction process.

Submission Roads Act Application for Civil Works in the Public Road

The Applicant is to submit an application for approval for infrastructure works on Council's roadway. Engineering plans for the new development works within the road reserve and this development consent are to be submitted to Council for approval under the provisions of Sections 138 and 139 of the Roads Act 1993.

The application is to include four (4) copies of Civil Engineering plans for the design of vehicular access which are to be generally in accordance with the Council's specification for engineering works - AUS-SPEC #1. The plan shall be prepared by a qualified civil engineer. The design must include the following information:

1. The width and location of the access driveway at the road must be designed in accordance with section 3.2 of Australian/New Zealand Standard AS/NZS 2890.1:2004 Parking facilities - Off-street car parking.
2. The vehicular Crossing/driveway within the public road shall be in plain concrete.
3. The provision of normal low vehicle crossing profile generally in accordance with Northern Beaches Council Drawing No A4-3330/3 and specifications.
4. Safety devices must be installed on the proposed driveway in accordance with AS/NZS 2890.1:2004.
5. The driveway be designed such that there is no load imposed on the existing retaining wall supporting the road. Alternative, the design must either replace existing retaining wall to maintain support of road to extend structural design life to 100 years.
6. The crossing slab between the kerb & gutter/road shoulder and the existing internal retaining wall/pier must be generally matching existing ground level.
7. Pedestrian access shall be incorporated within the driveway and any steps required shall be located within the private property.
8. Longitudinal cross sectional survey detail must be provided with the design, showing existing and proposed levels and must be commenced from the centerline of the road.
9. Structural details of the driveway retaining wall, piers and slab designed by a structural

engineer.

10. The application is to include a geotechnical report that is prepared by an appropriately qualified Geotechnical Engineer to assess the existing retaining wall and the related area between the retaining to the property boundary along Barrenjoey Road. The report must include a full assessment of the existing retaining wall including the stability assessment of the wall.
11. Any proposed excavation, including any recommendations for shoring works that may be required to ensure the stability of the excavation.
12. The provision of appropriate protection for the retaining wall during and after completion of construction works

The fee associated with the assessment and approval of the application is to be in accordance with Council's Fee and Charges.

An approval is to be submitted to the Certifying Authority prior to the issue of the Construction Certificate

Reason: To ensure engineering works are constructed in accordance with relevant standards and Council's specification.

CONDITIONS TO BE COMPLIED WITH DURING DEMOLITION AND BUILDING WORK

Road Reserve

The applicant shall ensure the public footways and roadways adjacent to the site are maintained in a safe condition at all times during the course of the work.

Reason: Public safety.

Civil Works Supervision

The Applicant shall ensure all civil works approved in the Section 138 approval are supervised by an appropriately qualified and practising Civil Engineer.

Details demonstrating compliance are to be submitted to the Principal Certifying Authority and/or Roads Authority.

Reason: To ensure compliance of civil works with Council's specification for engineering works.

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

Stormwater Disposal

The stormwater drainage works shall be certified as compliant with all relevant Australian Standards and Codes by a suitably qualified person. 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 appropriate provision for the disposal of stormwater arising from the development.

Certification driveway and Parking Facility Works

The Applicant shall submit a Structural Engineers' certificate certifying that the driveway/vehicular crossing and parking was constructed in accordance within this development consent and the

provisions of Australian/New Zealand Standard AS/NZS 2890.1:2004 parking facilities. Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of the final Occupation.

Reason: Compliance with this consent.

Retaining wall

The retaining wall works shall be certified as compliant with all relevant Australian Standards and Codes by a Structural Engineer. Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of any final Occupation Certificate.

Reason: Public and Private Safety

Geotechnical Certification Prior to Occupation Certificate

The Applicant is to submit the completed Form 3 of the Geotechnical Risk Management Policy (Appendix 5 of P21 DCP) to the Principal Certifying Authority prior to issue of the Occupation Certificate.

Reason: To ensure geotechnical risk is mitigated appropriately.