

Engineering Referral Response

Application Number:	DA2018/1654
To:	Daniel Milliken
Land to be developed (Address):	Lot 3 DP 805710 , 181 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

Reference is made to Development Engineering Referral Response dated 01/2/19 and the amended plans.

No objections are raised to the proposed amendments. Please note previous Development Engineering advice provided below. I have updated the conditions as appropriate.

Development Engineering Referral Response dated 01/2/19:

External Works:

The application indicates site entry from a proposed deceleration lane within Forest Way. Discussions with Council's Road Assets section has determined the construction of a layback and vehicular crossing in this location is preferred, in order to prioritise pedestrian movements and delineate site entry. This shall be conditioned.

Council Dedications:

Discussions with Council's Road Assets section have determined that a road verge dedication of 4m from the back of kerb to property boundary will be required. This shall be conditioned. Please note that this is 0.5m wider than currently proposed, and may have an impact on front setbacks and the arrangement of site frontage (retaining walls, entry stairs etc). In addition, it is noted that there is a local pattern in dedicating the frontage of lots on Forest Way as public reserve, please consider this in your assessment.

No objections are raised to the proposed application, 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 Bond (Crossing / Kerb)

The applicant is to lodge a Bond of \$30,000 as security against any damage or failure to complete the construction of any vehicular crossings, any footpath works and removal of any redundant driveways required as part of this consent. Details demonstrating 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

Submission Roads Act Application for Civil Works in the Public Road

The Applicant is to submit an application for approval for Infrastructure works on Councils roadway. Engineering plans for the new development works within the road reserve within 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 civil works which are to be generally in accordance with the Council's specification for engineering works - AUS-SPEC #1.

The civil works shall include, but not be limited to, the following:

- Provision of a 4 metre wide verge from the back of kerb to property boundary,
- Provision of footpath 1.5m wide for the entire frontage of the site to the bus stop located to the south,
- Provision of layback and vehicular crossing 6m wide,
- Removal of any retaining walls

The Applicant shall ensure that a verge of 4 metres wide from the back of kerb to property boundary is detailed on the construction plans. All structures, including retaining walls, stairs etc., shall be located wholly within the development site, and any internal works adjusted to facilitate the dedication.

Written approval for any construction works obtained from the RMS shall be submitted with the Roads Act Application.

The plans shall be prepared by a qualified civil engineer. The fee associated with the assessment and approval of the application is to be in accordance with Council's Fee and Charges. An approval from Council 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.

On-site Stormwater Detention

The Applicant is to provide a certification of drainage plans detailing the provision of on-site stormwater detention in accordance with Northern Beaches Council's Warringah Water Management Policy PL850, and generally in accordance with the concept drainage plans prepared by Acor Consultants, project number SY160709, drawing number C1.01, C1.05, C1.06, C1.07, C3.01, C4.01, dated 10/09/18 with the design modifications as detailed in the Letter of Intent prepared by Acor Consultants, reference number SY160709, dated 31/10/19. Detailed drainage plans are to be prepared by a suitably qualified Civil Engineer, who has membership to the Institution of Engineers Australia, National Engineers Register (NER) and registered in the General Area of Practice for civil engineering.

Detailed drainage plans, including engineering certification, 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.

Structural Adequacy and Excavation Work

Excavation work is to ensure the stability of the soil material of adjoining properties, the protection of adjoining buildings, services, structures and / or public infrastructure from damage using underpinning, shoring, retaining walls and support where required. All retaining walls are to be structurally adequate for the intended purpose, designed and certified by a Structural Engineer, except where site conditions permit the following:

- (a) maximum height of 900mm above or below ground level and at least 900mm from any property boundary, and
- (b) Comply with AS3700, AS3600 and AS1170 and timber walls with AS1720 and AS1170.

Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of the Construction Certificate.

Reason: To provide public and private safety.

CONDITIONS THAT MUST BE ADDRESSED PRIOR TO ANY COMMENCEMENT

Public Liability Insurance - Works on Public Land

Any person or contractor undertaking works on public land must take out Public Risk Insurance with a minimum cover of \$20 million in relation to the occupation of, and approved works within Council's road reserve or public land, as approved in this consent. The Policy is to note, and provide protection for Northern Beaches Council, as an interested party and a copy of the Policy must be submitted to Council prior to commencement of the works. The Policy must be valid for the entire period that the works are being undertaken on public land.

Reason: To ensure the community is protected from the cost of any claim for damages arising from

works on public land.

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 Applicant shall submit a certificate from a suitably qualified person that the stormwater drainage works have been constructed/installed in accordance with all relevant Australian Standards and Codes. Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of the final Occupation Certificate.

Reason: To ensure appropriate provision for the disposal of stormwater arising from the development.

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 final Occupation Certificate.

Reason: To identify encumbrances on land.

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

The Applicant shall lodge the Legal Documents Authorisation Application with the original completed request forms (NSW Land Registry standard forms 13PC and/or 13RPA) to Council and a copy of the Works-as-Executed plan (details overdrawn on a copy of the approved drainage plan), hydraulic engineers' certification.

The Applicant shall create on the Title a restriction on the use of land and a positive covenant in respect to the ongoing maintenance and restriction of the on-site stormwater disposal structures within this

development consent. The terms of the positive covenant and restriction 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 the NSW Land Registry Services. Northern Beaches Council shall be nominated as the party to release, vary or modify such covenant.

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 final Occupation Certificate.

Reason: To ensure the on-site stormwater disposal system is maintained to an appropriate operational standard

Council Dedications

The Applicant shall dedicate a verge 4 metres wide from the back of kerb to property boundary to Northern Beaches Council. Prior to the issue of an Occupation Certificate, the Principal Certifying Authority shall ensure that a completed Subdivision Certificate form, a final plan of subdivision prepared in accordance with the requirements of the Conveyancing Act 1919 are lodged with the NSW Land Registry office. The subdivision certificate and a certificate of title are to be submitted to Council within one month after registration of the subdivision plan.

Reason: Statutory requirement of the Conveyancing Act 1919

Certification of Road Reserve Works and Works as Executed Data

The Applicant shall submit a suitably qualified Civil Engineer's certification that the completed works have been constructed in accordance with this consent and the approved Section 138 approved plans. Works as Executed data (details overdrawn on a copy of the approved civil plans) certified by a registered surveyor shall be submitted to Council.

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