

## Engineering Referral Response

Application Number:	DA2021/1841
Date:	17/06/2022
To:	Anne-Marie Young
Land to be developed (Address):	Lot 35 DP 25446 , 8 Coronation Street MONA VALE NSW 2103 Lot 34 DP 25446 , 7 Coronation Street 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

#### Stormwater

The stormwater plan proposing to discharge to the council system across Coronation Street is not satisfactory as there is no pipeline on the northern side in the location shown. The pipe connection across Coronation Street is not supported. The site discharge shall be connected to the Council system on the southern side of Coronation Street. This will require extending the council pipeline up to the subject site on the southern side. Details of the extension of the Council system shall be provided including conflicts with other services in the road reserve.

The OSD design is satisfactory subject to conditions.

#### Driveway Access

The proposed width and internal driveway gradients are satisfactory.

#### Footpath Access to Bus Stops

Traffic engineer has raised concerns regarding the footpath access to the bus stops which are to be resolved before Development Engineering can provide conditions.

The proposed application cannot be supported by Development Engineering due to lack of information to address:

- *Stormwater drainage for the development in accordance with clause B5.15 Stormwater*

**Review 11/5/2022**

Note to Planner: Please reopen referral once the Traffic engineers concerns are resolved for Development engineering to provide conditions.

**Review 17/6/2022**

The proposed stormwater plan with the proposed extension of the Council pipeline along the southern side of Coronation Street is satisfactory. No objections to approval subject to conditions as recommended.

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 \$50 000 as security against any damage or failure to complete the construction of road pavement/shoulder reconstruction, footpath, driveway crossing, relocation of bus stops, line markings and kerb and gutter 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.

**Construction, Excavation and Associated Works Bond (Drainage works)**

The applicant is to lodge a bond of \$35 000 as security against any damage or failure to complete the construction of stormwater drainage 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.

**Construction, Excavation and Associated Works Bond (Maintenance for civil works)**

The developer/applicant must lodge with Council a maintenance bond of \$20 000 for the construction of civil works in the road reserve. The maintenance bond will only be refunded upon completion of the six month maintenance period, if work has been completed in accordance with the approved plans and to the satisfaction of Council. The maintenance bond is to be paid prior to Council issuing practical completion.

Reason: To ensure adequate protection of Council 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 White Geotechnical Group dated 29/9/2021 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.

### **On-site Stormwater Detention Details**

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 Water Management for Development Policy, and generally in accordance with the concept drainage plans prepared by Barrenjoey Consulting Engineers, job number 210903, drawing number SW1 to SW5, dated 12/1/2022. Detailed drainage plans are to be prepared by a suitably qualified Civil Engineer, who has membership to the Institution of Engineers Australia, National Professional Engineers Register (NPER) 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 stormwater and stormwater management arising from the development.

### **Submission Roads Act Application for Civil Works in the Public Road**

The Applicant is to submit an application for Infrastructure Works in the Public Road Reserve, for Council approval.

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, generally in accordance with the Site Analysis Plan - Drawing No.A01 Revision D; for the design of the footpaths, angle parking, bus stop, kerb extension, pram ramps, and pedestrian refuge and concept drainage plans prepared by Barrenjoey Consulting Engineers, job number 210903, drawing number SW1 to SW5, dated 12/1/2022 for the extension of the Council pipeline.

The Plans are to be updated in accordance with Council's Standards and specification for engineering works - AUS-SPEC #1. The plans shall be prepared by a qualified Civil Engineer.

The design must include the following information:

1. Construct a pedestrian refuge in Coronation Street, with islands 2m wide and 3m spacing in accordance with Council standard drawings.
2. Construct a new kerb extension, west of Bus Stop (ID: 210381) on the northern side of the road.
3. New pram ramps are to be provide at the road crossing points with footpath connections in accordance with Council standard drawings.
4. Construct a 1.5 m wide concrete footpath connecting the development with the new

- pedestrian facilities.
5. Provide 8 parking spaces east of the new kerb extension, by converting 90 to 60 degree angled parking.
6. Provide 1 new parking space in the 90 degree angled parking area located west of Gate No.2 to Mona Vale Hospital.
7. Relocate Bus Stop (ID: 210386) on the southern side of the road, immediately east of the driveway to No.9 Coronation Street, with new 'Bus Zone' between the driveways of No.9 and 10 Coronation Street. 'No Stopping' restrictions are to be installed from the new 'Bus Zone' to the property boundary of No.11 and 12. All bus stops must be upgraded to meet the Disability Standards for Accessible Transport.
8. Relocate existing signage and make adjustments to linemarking, where required, to accommodate the changes.
9. The installation of traffic control devices and facilities requires the approval of Council and the Northern Beaches Local Traffic Committee prior to commencement of installation. A plan providing details of the proposed signage, line marking, and dimensions of the traffic facility must be lodged for consideration at least twelve (12) weeks prior to work commencing.
10. A 6.0 meter wide vehicular crossing in accordance with Northern Beaches Council Drawing No A4-3330/ 1N
11. 1.5m wide concrete footpath along the entire Coronation Street frontage to the new pedestrian facilities.
12. 1.8 metre lintel and grate kerb inlet pit in front of the subject site with a Ø 375mm RRJ RCP extension to the existing council pit in front of No 1 Coronation Street.

Details demonstrating compliance are to be submitted to Council for approval prior to the issue of the Construction Certificate.

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.

### **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.

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.

### **Sub-Soil Seepage**

The Applicant is to submit plans demonstrating that all sub-soil seepage drainage is discharged via a suitable silt arrester pit, directly to Council's nearest stormwater drainage line being the proposed kerb

inlet pit in Coronation Street and is to be carried out in accordance with relevant Australian Standards. (Note: At the time of determination the following (but not limited to) Standards applied:

- Australian/New Zealand Standard AS/NZS 3500.3 - 2003 Plumbing and drainage - Stormwater drainage
- Australian/New Zealand Standard AS/NZS 3500.3 - 2003 / Amdt 1 - 2006 Plumbing and drainage - Stormwater drainage.

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

Reason: To ensure appropriate drainage and Stormwater management on site to protect amenity of residents.

## **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**

### **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.

### **Footpath Construction**

The applicant shall 1.5 metre concrete footpath along the Coronation Street frontage to the new pedestrian facilities. The works shall be in accordance with the following:

- (a) All footpath works are to be constructed in accordance with Section 138 Road Act approval
- (b) Council is to inspect the formwork prior to pouring of concrete to ensure the works are in accordance with Section 138 Road Act approval for footpath. Details demonstrating compliance are to be submitted to the Principal Certifying Authority.

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

**Notification of Inspections (infrastructure works to be handed over to Council)**

Council's Development Engineer is to be given 48 hours notice when the works reach the following stages:

- (a) Installation of Silt and Sediment control devices
- (b) Prior to backfilling of pipelines
- (c) Prior to pouring of stormwater pits
- (d) Prior to pouring of kerb and gutter, driveway crossing
- (e) Subgrade level / basecourse level / subbase
- (f) Sealing road pavement

NOTE: Any inspections carried out by Council do not imply Council approval or acceptance of the work, and do not relieve the developer/applicant from the requirement to provide an engineer's certification.

Reason: To ensure new Council infrastructure is constructed in accordance with Auspec 1 Council's design and specification standards.

**CONDITIONS WHICH MUST BE COMPLIED WITH PRIOR TO THE ISSUE OF THE  
OCCUPATION CERTIFICATE****Positive Covenant for the Maintenance of Stormwater Pump-out Facilities**

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 positive covenant in respect to the ongoing maintenance of the pump-out facility on the property being developed. Northern Beaches Council shall be nominated in the instrument as the only party authorised to release, vary or modify the instrument. Northern Beaches Council's delegate shall sign these documents prior to the submission to the NSW Land Registry Services. Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of the final Occupation Certificate.

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 adequate provision is made for the stormwater pump out system to be maintained to an appropriate operational standard.

**Positive Covenant and Restriction as to User for On-site Stormwater Disposal Structures**

The Applicant shall lodge a Legal Documents Authorisation Application with Council. The application is to include the original completed request forms (NSW Land Registry standard forms 13PC and/or 13RPA) and a copy of the Works-as-Executed plan (details overdrawn on a copy of the approved drainage plan by a Registered Surveyor) and Hydraulic Engineers' certification for the completed on-site stormwater detention system works. A guide to the process can be found on Council's website using the following link.

<https://files.northernbeaches.nsw.gov.au/sites/default/files/documents/pdf-forms/legal-documents->

[authorisation-on-site-stormwater-detention-systems/guide-submitting-ldaa-nov19.pdf](https://files.northernbeaches.nsw.gov.au/sites/default/files/documents/pdf-forms/legal-documents-authorisation-on-site-stormwater-detention-systems/guide-submitting-ldaa-nov19.pdf)

The form for the application can be found on Council's website using the following link.

<https://files.northernbeaches.nsw.gov.au/sites/default/files/documents/pdf-forms/legal-documents-authorisation-on-site-stormwater-detention-systems/4023-legal-documents-authorisation-oct19.pdf>

The Applicant shall create on the Title a positive covenant in respect to the ongoing maintenance and restriction as to user over the on-site stormwater detention system 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 as to user for the on-site stormwater detention system 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 detention system is maintained to an appropriate operational standard and not altered.

#### **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.

#### **Post- Construction Stormwater Assets Dilapidation Report (Council stormwater assets)**

The Applicant shall submit a post-construction Dilapidation Survey of Council's Stormwater Assets is to be prepared by a suitably qualified person in accordance with Council's Guidelines for Preparing a Dilapidation Survey of Council Stormwater Asset in order to determine if the asset has been damaged by the works. Council's Guidelines are available at

<https://files.northernbeaches.nsw.gov.au/sites/default/files/documents/general-information/engineering-specifications/preparingdilapidationsurveyforcouncilstormwaterassets.pdf>

The post-construction / demolition dilapidation report must be submitted to Council for review and approval. Any damage to Council's stormwater infrastructure is to be rectified prior to the release of any Drainage security bonds. Council's acceptance of the Dilapidation Survey is to be submitted to the Principal Certifying Authority prior to the issue of the Occupation Certificate.



Reason: Protection of Council's infrastructure.

### **Certification of Civil Works and Works as Executed Data on Council Land**

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 plans. Works as Executed data certified by a registered surveyor prepared in accordance with Council's 'Guideline for preparing Works as Executed data (details overdrawn on a copy of the approved civil plans) for Council Assets' in an approved format shall be submitted to Council for approval prior to the release of any security deposits.

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