

Recommended Conditions of Consent

Development Description: Demolition of the existing structures, earthworks, removal of trees and excavation for basement parking levels, and construction of a residential flat building comprising 123 residential apartments, basement levels comprising 107 car parking spaces and 15 bicycle spaces, communal open space areas and associated stormwater management works and landscaping.

GENERAL

The following conditions of consent included in this Part identify the requirements, terms and limitations imposed on this development.

1. **Approved Plans/Documents.** Except where otherwise provided in this consent, the development is to be carried out strictly in accordance with the following plans (stamped approved by Council) and support documents:

Document Description	Date	Plan No/Reference
Cover Sheet	22.08.22	0000, Revision 3
Site Plan / Site Analysis Plan	22.08.22	1000, Revision 3
Demolition Plan	22.08.22	1100, Revision 3
Basement Floor Plan B1	22.08.22	2000, Revision 3
Basement Floor Plan B2	22.08.22	2001, Revision 3
Lower Ground Floor Plan (as amended in red)	22.08.22	2100, Revision 3
Mezzanine Floor Plan	22.08.22	2101, Revision 3
Upper Ground Floor Plan (as amended in red)	22.08.22	2102, Revision 3
Level 1 Floor Plan	22.08.22	2103, Revision 3
Level 2 Floor Plan	22.08.22	2104, Revision 3
Level 3 Floor Plan	22.08.22	2105, Revision 3
Level 4 Floor Plan	22.08.22	2105, Revision 3
Level 5 Floor Plan	22.08.22	2107, Revision 3
Level 6 Floor Plan	22.08.22	2108, Revision 2
Level 7 Floor Plan	22.08.22	2109, Revision 2
Level 8 Floor Plan	22.08.22	2110, Revision 3
Level 9 - 12 Typical Floor Plan	22.08.22	2111, Revision 2
Level 13 Floor Plan	22.08.22	2112, Revision 3
Roof Plan	22.08.22	2200, Revision 3
Adaptable Units Layout	22.08.22	2300, Revision 3
Typical Details (as amended in red)	22.08.22	2301, Revision 1
Shadow Diagrams	22.08.22	2400, Revision 3
Area Calculations	22.08.22	2500, Revision 3
Solar Access Diagram	22.08.22	2501, Revision 3
Cross Ventilation Diagram	22.08.22	2502, Revision 3
Elevations – North & East	22.08.22	3100, Revision 3
Elevations – South & West	22.08.22	3101, Revision 3
Sections	22.08.22	3200, Revision 3
Ground Plane Diagrams	22.08.22	3301, Revision 2
Material Schedule (as amended in red)	22.08.22	6000, Revision 3

Photomontage from Lachlan Avenue	-	-
Photomontage from Ivanhoe Place	-	-
Photomontage from 1 Peachtree Road	-	-
Photomontage from building entrance	-	-
Driveway Cross Section	16.09.22	DA 3201, Revision 4
Landscape Plan Cover Page	23.08.22	L-00, Revision F
Landscape Plan Lower Ground	23.08.22	L-01, Revision J
Landscape Plan Mezzanine Floor	12.08.22	L-02, Revision E
Landscape Plan Level 2	12.08.22	L-03, Revision I
Landscape Plan Level 3	12.08.22	L-04, Revision E
Landscape Plan Level 4	12.08.22	L-05, Revision F
Landscape Plan Level 5	12.08.22	L-06, Revision G
Landscape Plan Level 13	23.08.22	L-07, Revision H
Landscape Calculations	23.08.22	L-08, Revision F
Details & Specifications	05.05.21	L-09, Revision A
Planting Plan Lower Ground	23.08.22	L-011, Revision H
Planting Plan Mezzanine Floor	12.08.22	L-021, Revision D
Planting Plan Level 2	12.08.22	L-031, Revision G
Planting Plan Level 3	12.08.22	L-041, Revision D
Planting Plan Level 4	12.08.22	L-051, Revision D
Planting Plan Level 5	12.08.22	L-061, Revision E
Planting Plan Level 13	23.08.22	L-071, Revision F
Stormwater Management Plans Webber Design Cover Sheet	28.04.22	C0000, Revision P1
Civil Notes	28.04.22	C0001, Revision P1
Sediment & Erosion Control Plan	28.04.22	C0010, Revision P1
Sediment & Erosion Control Typical Details	28.04.22	C0020, Revision P1
Cut & Fill Plan	28.04.22	C0030, Revision P1
Basement 2 - Drainage Plan	28.04.22	C0080, Revision P1
Basement 1 - Drainage Plan	28.04.22	C0090, Revision P1
Lower Ground Floor - Drainage Plan	28.04.22	C0100, Revision P1
Mezzanine Floor - Drainage Plan	28.04.22	C0110, Revision P1
Upper Ground Floor - Drainage Plan	28.04.22	C0120, Revision P1
Lower Ground Floor – Overland Flow Path Plan	28.04.22	C0200, Revision P1
Upper Ground Floor - Overland Flow Path Plan	28.04.22	C0210, Revision P1
Catchment Plan	28.04.22	C0250, Revision P1
Civil Sections – Sheet 1	28.04.22	C0300, Revision P1
Outfall Drain Plan	28.04.22	C0400, Revision P1
Outfall Drain Section – Sheet 1	28.04.22	C0500, Revision P1
Outfall Drain Section – Sheet 2	28.04.22	C0501, Revision P1
Typical Civil Details – Sheet 1	28.04.22	C0600, Revision P1
Typical Pavement Details – Sheet 1	28.04.22	C0700, Revision P1
Detailed Site Investigation EI Australia	03.05.22	E25550.E02.Rev1
Site Audit Report IEC	05.05.22	22008, Version 00
Flood Impact Assessment	19.08.22	Revision 1

Catchment Simulation Solutions		
Stormwater Management Plan Webber Design	22.08.22	WD20106, Revision 3
Root Investigation Analysis Redgum Horticultural	04.08.22	4634rm.1
Arboricultural Impact Assessment & Tree Management Plan Redgum Horticultural	26.04.21	4634.1
Geotechnical Investigation Douglas Partners	July 22	202324.00
Waste Management Plan Leigh Design	04.05.22	-
Traffic Report TTPP	09.05.22	18407
Acoustic Report Vipac	05.05.22	20E-18-0447-TRP-47570494-4, Revision 4
Wind Impact Statement Vipac	05.05.21	30N-20-0194-TNT-47592910-2, Revision 2
Demolition Works Plan Moits	-	Version 4
CPTED Assessment Urbis	04.05.21	P004099, Version 3
BCA Report Atelier Consultancy	03.05.21	ATLR-21-0014, Revision 3
Accessibility Report Purely Access	06.05.21	100034, Revision 2
Ecologically Sustainable Design (ESD) Report Vipac	07.05.21	20E-18-0445-TRP-47593520-0, Revision 1.2

Prior to the issue of a **Construction Certificate**, the following amendments shall be made (as marked in red on the approved plans):

- (a) The design and treatment to the kiosk substation fencing is to match the 'timber look balustrade' used on the podium.
- (b) The 1:20 detail plans shall incorporate the proposed 'timber look balustrade.'
- (c) Downpipe locations shall be integrated into walls and not left exposed.
- (d) Air conditioning condenser units located on balconies shall be screened and treated for noise attenuation.
- (e) The podium pre-cast panels to all elevations shall have a deep panel profile with a panel thickness of approximately 300mm to achieve the splayed window reveals as shown on the east and west podium elevations.
- (f) 10 of the internal 'residential' car parking spaces in the vicinity of the vehicular access point at the Lower Ground Level are to be converted to 'visitor spaces.'
- (g) The 2 'visitor' parking spaces in the vicinity of the loading area are to be assigned for use as 2 car share scheme vehicles. This area is to include CCTV and sensor lighting for safety and security purposes.
- (h) The pedestrian path to Ivanhoe Estate (in the vicinity of Mahogany Avenue) at the rear of the site can only formally be made available for access to pedestrians after the Ivanhoe Estate Road ('Mahogany Avenue') is dedicated to Council as a public asset. No pedestrian pathway works are permitted outside of the southern boundary of the subject site.

The Development must be carried out in accordance with the amended plans approved under this condition.

(Reason: To ensure the development is carried out in accordance with the determination).

2. **Building Code of Australia.** All building works approved by this consent must be carried out in accordance with the requirements of the Building Code of Australia.

(Reason: Statutory requirement).
3. **BASIX.** Compliance with all commitments listed in BASIX Certificate(s) numbered 1198548M_02, dated 25 April 2022.

(Reason: Statutory requirement).
4. **Energy Efficiency.** The fittings, fixtures and materials installed in association with the development (including but not limited to hot water systems, ceiling/roof insulation, shower heads, toilet cisterns and the like) shall comply with the requirements of Council's DCP. Details are to be noted on the plans submitted with the **Construction Certificate**.

(Reason: DCP compliance).
5. **Support for neighbouring buildings.** If the development involves excavation that extends below the base of the footings of a building on adjoining land, the person having the benefit of the development consent must, at the person's own expense:
 - (a) Protect and support the adjoining premises from possible damage from the excavation, and
 - (b) Where necessary, underpin the adjoining premises to prevent any such damage, in accordance with relevant Australian Standards.
(Reason: Statutory requirement).
6. **Site Maintenance.** For the period the site remains vacant of any development the subject of this consent, the site is to be regularly maintained in a tidy manner such that it does not become overgrown with weeds or become a repository for the leaving or dumping of waste.

(Reason: To protect the amenity of the locality).
7. **Hours of work.** Building activities (including demolition) may only be carried out between 7.00am and 7.00pm Monday to Friday (other than public holidays) and between 8.00am and 4.00pm on Saturday. No building activities are to be carried out at any time on a Sunday or a public holiday.

(Reason: To ensure reasonable standards of amenity for occupants of neighbouring properties).
8. **Hoardings.**
 - (a) A hoarding or fence must be erected between the work site and any adjoining public place.
 - (b) Any hoarding, fence or awning erected pursuant this consent is to be removed when the work has been completed.
(Reason: To ensure public safety).
9. **Illumination of public place.** Any public place affected by works must be kept lit between sunset and sunrise if it is likely to be hazardous to persons in the public place.

(Reason: To ensure public safety).
10. **Development to be within site boundaries.** The development must be constructed wholly within the boundaries of the premises. No portion of the proposed structure shall encroach onto the adjoining properties. Gates/doors must be installed so they do not open onto any footpath.

(Reason: To ensure that development occurs within the site boundaries and maintain public safety and amenity in public domain areas).

11. **Public space.** The public way must not be obstructed by any materials, vehicles, refuse, skips or the like, under any circumstances, without prior approval from Council.

(Reason: To ensure public safety).

12. **WaterNSW - General Terms of Approval.** The development shall satisfy the General Terms of Approval issued by WaterNSW on 1 August 2022, as follows:

GT0115-00001: Groundwater must only be pumped or extracted for the purpose of temporary construction dewatering at the site identified in the development application. For clarity, the purpose for which this approval is granted is only for dewatering that is required for the construction phase of the development and not for any dewatering that is required once construction is completed.

GT0116-00001: Before any construction certificate is issued for any excavation under the development consent, the applicant must: 1. apply to WaterNSW for, and obtain, an approval under the Water Management Act 2000 or Water Act 1912, for any water supply works required by the development; and 2. notify WaterNSW of the programme for the dewatering activity to include the commencement and proposed completion date of the dewatering activity Advisory Note: 3. An approval under the Water Management Act 2000 is required to construct and/or install the water supply works. For the avoidance of doubt, these General Terms of Approval do not represent any authorisation for the take of groundwater, nor do they constitute the grant or the indication of an intention to grant, any required Water Access Licence (WAL). A WAL is required to lawfully take more than 3ML of water per water year as part of the dewatering activity. 4. A water use approval may also be required, unless the use of the water is for a purpose for which a development consent is in force.

GT0117-00001: A water access licence, for the relevant water source, must be obtained prior to extracting more than 3ML per water year of water as part of the construction dewatering activity. Advisory Notes: 1. This approval is not a water access licence. 2. A water year commences on 1 July each year. 3. This approval may contain an extraction limit which may also restrict the ability to take more than 3ML per water year without further information being provided to WaterNSW. 4. Note that certain water sources may be exempted from this requirement - see paragraph 17A, Schedule 4 of the Water Management (General) Regulation 2018.

GT0118-00001: If no water access licence is obtained for the first 3ML / year (or less) of water extracted, then, in accordance with clause 21(6), Water Management (General) Regulation 2018, the applicant must: (a) record water taken for which the exemption is claimed, and (b) record the take of water not later than 24 hours after water is taken, and (c) make the record on WAL exemption form located on WaterNSW website "Record of groundwater take under exemption", and (d) keep the record for a period of 5 years, and (e) give the record to WaterNSW either via email to Customer.Helpdesk@waternsw.com.au or post completed forms to - PO Box 398 Parramatta NSW 2124 (i) not later than 28 days after the end of the water year (being 30 June) in which the water was taken, or (ii) if WaterNSW directs the person in writing to give the record to WaterNSW on an earlier date, by that date.

GT0119-00001: All extracted groundwater must be discharged from the site in accordance with Council requirements for stormwater drainage or in accordance with any applicable trade waste agreement.

GT0120-00001: The design and construction of the building must prevent: (a) any take of groundwater, following the grant of an occupation certificate (and completion of construction of development), by making any below-ground levels that may be impacted by any water table fully watertight for the anticipated life of the building. Waterproofing of below-ground

levels must be sufficiently extensive to incorporate adequate provision for unforeseen high water table elevations to prevent potential future inundation; (b) obstruction to groundwater flow, by using sufficient permanent drainage beneath and around the outside of the watertight structure to ensure that any groundwater mounding shall not be greater than 10 % above the pre-development level; and (c) any elevated water table from rising to within 1.0 m below the natural ground surface.

GT0121-00001: Construction phase monitoring bore requirements GTA: a) A minimum of three monitoring bore locations are required at or around the subject property, unless otherwise agreed by WaterNSW. b) The location and number of proposed monitoring bores must be submitted for approval, to WaterNSW with the water supply work application. c) The monitoring bores must be installed and maintained as required by the water supply work approval. d) The monitoring bores must be protected from construction damage.

GT0122-00001: Construction Phase Monitoring programme and content: a) A monitoring programme must be submitted, for approval, to WaterNSW with the water supply work application. The monitoring programme must, unless agreed otherwise in writing by WaterNSW, include matters set out in any Guide published by the NSW Department of Planning Industry and Environment in relation to groundwater investigations and monitoring. Where no Guide is current or published, the monitoring programme must include the following (unless otherwise agreed in writing by WaterNSW): i. Pre-application measurement requirements: The results of groundwater measurements on or around the site, with a minimum of 3 bore locations, over a minimum period of 3 months in the six months prior to the submission of the approval to WaterNSW. ii. Field measurements: Include provision for testing electrical conductivity; temperature; pH; redox potential and standing water level of the groundwater; iii. Water quality: Include a programme for water quality testing which includes testing for those analytes as required by WaterNSW; iv. QA: Include details of quality assurance and control v. Lab assurance: Include a requirement for the testing by National Association of Testing Authorities accredited laboratories. b) The applicant must comply with the monitoring programme as approved by WaterNSW for the duration of the water supply work approval (Approved Monitoring Programme).

GT0123-00001: (a) Prior to the issuing of the occupation certificate, and following the completion of the dewatering activity, and any monitoring required under the Approved Monitoring Programme, the applicant must submit a completion report to WaterNSW. (b) The completion report must, unless agreed otherwise in writing by WaterNSW, include matters set out in any guideline published by the NSW Department of Planning Industry and Environment in relation to groundwater investigations and monitoring. Where no guideline is current or published, the completion report must include the following (unless otherwise agreed in writing by WaterNSW): 1) All results from the Approved Monitoring Programme; and 2) Any other information required on the WaterNSW completion report form as updated from time to time on the WaterNSW website. c) The completion report must be submitted using "Completion Report for Dewatering work form" located on WaterNSW website www.waternsw.com.au/customer-service/water-licensing/dewatering .

GT0150-00001: The extraction limit shall be set at a total of 3ML per water year (being from 1 July to 30 June). The applicant may apply to WaterNSW to increase the extraction limit under this condition. Any application to increase the extraction limit must be in writing and provide all information required for a hydrogeological assessment. Advisory note: Any application to increase the extraction limit should include the following: - Groundwater investigation report describing the groundwater conditions beneath and around the site and subsurface conceptualisation - Survey plan showing ground surface elevation across the site - Architectural drawings showing basement dimensions - Environmental site assessment report for any sites containing contaminated soil or groundwater (apart from acid sulphate soils (ASS)) - Laboratory test results for soil sampling testing for ASS - If ASS, details of proposed management and treatment of soil and groundwater. Testing and management should align with the NSW Acid Sulphate Soil Manual

GT0151-00001: Any dewatering activity approved under this approval shall cease after a period of two (2) years from the date of this approval, unless otherwise agreed in writing by WaterNSW (Term of the dewatering approval). Advisory note: an extension of this approval may be applied for within 6 months of the expiry of Term.

GT0152-00001 This approval must be surrendered after compliance with all conditions of this approval, and prior to the expiry of the Term of the dewatering approval, in condition GT0151-00001. Advisory note: an extension of this approval may be applied for within 6 months of the expiry of Term.

GT0155-00001: The following construction phase monitoring requirements apply (Works Approval): a. The monitoring bores must be installed in accordance with the number and location shown, as modified by this approval, unless otherwise agreed in writing with WaterNSW. b. The applicant must comply with the monitoring programme as amended by this approval (Approved Monitoring Programme). c. The applicant must submit all results from the Approved Monitoring Programme, to WaterNSW, as part of the Completion Report

(Reason: Legislative requirement).

13. **Drainage Design and Construction Standards.** All engineering detailed design plans and associated drainage works shall be carried out in accordance with the requirements of the relevant Australian Standards and Council's DCP Part 8.2.

Detailed design of all proposed Council Infrastructure works or proposed modification to Council infrastructure which may be located inside the property boundary, must be approved by Council City Works Directorate and undertaken in accordance with Council's 2014 DCP Part 8.2 and relevant Australian Standards, except otherwise as amended by conditions of this consent.

(Reason: To ensure Council's DCP and relevant Australian Standard requirements are met).

14. **Public areas and restoration works.** Public areas must be maintained in a safe condition at all times. Restoration of disturbed road and footway areas for the purpose of connection to public utilities, including repairs of damaged infrastructure as a result of the construction works associated with this development site, shall be undertaken by the Applicant in accordance with Council's standards and specifications, and DCP 2014 Part 8.5 Public Civil Works, to the satisfaction of Council.

(Reason: To ensure the public areas are restored upon completion of construction works).

15. **Utility Services.** The applicant shall undertake and bear all costs associated with the liaison, approval and relocation of any utility services. All correspondence and approvals between the Applicant and utility authorities shall be provided to the Council in conjunction with engineering documentation for the stormwater drainage works prior to commencement of construction.

(Reason: To ensure that the applicant avoids conflicts with utilities and services).

16. **Public Utilities and Service Alterations.** All mains, services, poles, etc., which require alteration due to works associated with the development, shall be altered at the Applicant's expense. The Applicant shall comply with the requirements (including financial costs) of the relevant utility provider (e.g. Energy Australia, Sydney Water, Telstra, RMS, Council, etc) in relation to any connections, works, repairs, relocation, replacement and/or adjustments to public infrastructure or services affected by the development.

(Reason: Protection of infrastructure and compliance with relevant Authorities requirements).

17. **Works on Public Roads.** Any works performed in, on or over a public road reserve pursuant to this consent must be carried out in accordance with this consent and with the Road Opening Permit issued by Council as required under Sections 138 and 139 of the Roads Act 1993.

(Reason: Compliance with relevant Acts.)

18. **Land Boundary / Cadastral Survey.** If any design work relies on critical setbacks from land boundaries or subdivision of the land is proposed, it is a requirement that a land boundary / cadastral survey be undertaken to define the land.

The land boundaries should be marked or surveyed offset marks placed prior to the commencement of any work on site.

(Reason: No encroachment of private works on public land)

19. **Traffic Management.** Traffic management procedures and systems must be in place and practised during the construction period to ensure safety and minimise the effect on adjoining pedestrian and vehicular traffic systems. These procedures and systems must be in accordance with AS 1742.3 - 2019 and Part 8.1 of City of Ryde Development Control Plan 2014: Construction Activities.

(Reason: This condition is to ensure that appropriate measures/controls are in place to assist with the safety of all affected road users within the public domain when construction works are being undertaken).

20. **Design and Construction Standards.** All engineering plans and detailed design work shall be carried out in accordance with the requirements of the relevant Australian Standard. All Public Domain works or modification to Council infrastructure, must be undertaken in accordance with Council's DCP Part 8.5 (Public Civil Works) and Part 8.2 (Stormwater and Floodplain Management), except otherwise as amended by conditions of this consent.

(Reason: To ensure that all works are undertaken in accordance with any relevant standard and DCP requirements.)

21. **Service Alterations.** All services or utilities required to be altered in order to complete the development works are to be undertaken in accordance with the requirements of the relevant service provider (eg Telstra, Jemena, Ausgrid, etc), with all costs associated with this alteration to be borne by the applicant.

(Reason: To ensure public services are maintained.)

22. **Restoration.** Public areas must be maintained in a safe condition at all times. Restoration of disturbed road and footway areas for the purpose of connection to public utilities, including repairs of damaged infrastructure as a result of the construction works associated with this development site, shall be undertaken by the Applicant in accordance with Council's standards and specifications, and DCP Part 8.5 (Public Civil Works), to the satisfaction of Council.

(Reason: To ensure the amenity and state of the public domain is maintained.)

23. **Road Opening Permit.** In accordance with the requirements of the Roads Act, the applicant must obtain consent (Road opening Permit) from Council prior to any excavation being undertaken in the road reserve (this includes verge and public footpath areas). No works shall be carried out in the road reserve without this permit being paid and a copy kept on the site.

(Reason: To ensure the amenity and state of the public domain is maintained.)

24. **Compliance with Acoustic Report.** All control measures nominated in Acoustic DA Report No. 20E-18-0447-TRP-47570494-4, prepared by Vipac and dated 5 May 2022, shall be implemented.

(Reason: To ensure that the development is in accordance with the required acoustic attenuation measures).

25. **Contamination and Remediation.** All works on the site are to be undertaken in accordance with the following reports:

- a) Preliminary Site Investigation (Contamination) prepared by Doulas Partners and dated May 2021;
- b) Detailed Site Investigation prepared by EI Australia (reference E25550.E02, Revision 1, dated 3 May 2022);
- c) Hazardous Material Survey prepared by EI Australia (Reference E25550.E10, dated 4 May 2022);
- d) Site Audit Report (SAR) No. 22008_SAR_v00, prepared by Harwood Environmental Consultants and dated 5 May 2022; and
- e) Site Audit Statement (SAS) No. 405 completed by NSW EPA Licensed Auditor Mr Rod Harwood, (Accreditation No: 0304) and dated 5 May 2022.

Note. No Construction Certificate is to be issued for any building work on the land until the land is suitable for residential use, without the need for further remediation, to the satisfaction of the Certifier.

(Reason: To ensure the land is suitable for residential use).

DEMOLITION CONDITIONS

The following conditions are imposed to ensure compliance with relevant legislation and Australian Standards, and to ensure that the amenity of the neighbourhood is protected.

A Construction Certificate is not required for Demolition.

26. **Demolition Deposit.** The Council must be provided with security for the purposes of Section 4.17(6) of the Environmental Planning and Assessment Act 1979 in a sum determined by reference to Council's Management Plan prior to the demolition occurring on the site.

(Reason: Statutory requirement)

27. **Provision of contact details/neighbour notification.** At least 7 days before any demolition work commences:

- (a) Council must be notified of the following particulars:
 - (i) The name, address, telephone contact details and licence number of the person responsible for carrying out the work; and
 - (ii) The date the work is due to commence and the expected completion date
- (b) A written notice must be placed in the letter box of each property identified in the attached locality plan advising of the date the work is due to commence.

(Reason: To ensure adequate details are provided to Council and properties in the immediate area of the proposed works).

28. **Compliance with Australian Standards.** All demolition work is to be carried out in accordance with the requirements of the relevant Australian Standard(s) and WorkCover requirements.

(Reason: Statutory requirement).

29. **Excavation**

- (a) All excavations and backfilling associated with the development must be executed safely, properly guarded and protected to prevent the activities from being dangerous to life or property and, in accordance with the design of a structural engineer.
- (b) A Demolition Work Method Statement must be prepared by a licensed demolisher who is registered with Safework NSW in accordance with AS 2601-2001: *The Demolition of Structures*, or its latest version. The applicant must provide a copy of the Statement to Council prior to commencement of demolition work.

(Reason: to ensure work is completed in an appropriate manner).

30. **Asbestos.** Where asbestos is present during demolition work, the work must be carried out in accordance with the guidelines for asbestos work published by Safework NSW.

(Reason: Safety).

31. **Asbestos – disposal.** All asbestos wastes must be disposed of at a landfill facility licensed by the New South Wales Environmental Protection Authority to receive that waste. Copies of the disposal dockets must be retained by the person performing the work for at least 3 years and be submitted to Council on request.

(Reason: Safety).

32. **Waste management plan.** Demolition material must be managed in accordance with the approved waste management plan.

(Reason: To ensure demolition materials are disposed in an appropriate manner).

33. **Disposal of demolition waste.** All demolition waste must be transported to a facility or place that can lawfully be used as a waste facility for those wastes.

(Reason: To ensure demolition materials are disposed in an appropriate manner).

34. **Demolition Pedestrian and Traffic Management Plan.** A Demolition Pedestrian and Traffic Management Plan (DPTMP) shall be prepared by a suitably qualified traffic engineering consultant and submitted to and approved by Council's Transport Department prior to issue of any Construction Certificate.

Due to heavy traffic congestion throughout Macquarie Park, truck movements will be restricted during the major commuter peak times being 8.00-9.30am and 4.30-6.00pm. Truck movements must be agreed with Council's Traffic and Development Engineer prior to submission of the DPTMP.

All fees and charges associated with the review of this plan are to be paid in accordance with Council's Schedule of Fees and Charges with payment to be made prior to receipt of approval from Council's Transport Department for the DPTMP.

The DPTMP must include but not limited to the following:

- i. Make provision for all construction materials to be stored on site, at all times.
- ii. The DPTMP is to be adhered to at all times during the project.
- iii. Specify that all demolition vehicles are to enter & exit the site and/or work zone in a forward direction.
- iv. Specify construction truck routes and truck rates. Nominated truck routes are to be restricted to State Roads or non-light vehicle thoroughfare routes where possible.

- v. Specify the number of truck movements to and from the site during the demolition phase of the works. Temporary truck standing/ queuing in a public roadway/ domain in the vicinity of the site is not permitted unless approved by City Works Directorate.
- vi. Include Traffic Control Plan(s) prepared by a SafeWork NSW accredited designer for any activities involving the management of vehicle and pedestrian traffic and results in alterations to the existing traffic conditions in the vicinity of the site.
- vii. Specify appropriate parking measures for construction staff and sub-contractors to minimise the impact to the surrounding public parking facilities.
- viii. Specify that a minimum fourteen (14) days notification must be provided to adjoining property owners prior to the implementation of any temporary traffic control measures.
- ix. Include a site plan showing the location of any site sheds, location of requested Work Zones, anticipated use of cranes, structures proposed on the footpath areas (hoardings, scaffolding or temporary shoring) and extent of tree protection zones around Council street trees.
- x. Take into consideration the combined construction activities of other development(s) and/or roadworks in the surrounding area. To this end, the consultant preparing the DPTMP must engage and consult with relevant stakeholders undertaking such works within a 250m radius of the subject site to ensure that appropriate measures are in place to prevent the combined impact of construction activities. These communications must be documented and submitted to Council prior to work commencing on site.
- xi. Specify spoil management process and facilities to be used on site.
- xii. Specify that the roadway (including footpath) must be kept in a serviceable condition for the duration of demolition. At the direction of Council, undertake remedial treatments such as patching at no cost to Council.
- xiii. Comply with relevant sections of the following documents:
 - The Australian Standard *Manual of Uniform Traffic Control Devices* (AS1742.3-2019);
 - TfNSW' *Traffic Control at Work Sites* technical manual; and
 - Part 8.1 of City of Ryde *Development Control Plan 2014: Construction Activities*.

(Reason: This condition is to ensure that a plan is prepared to address traffic impacts during demolition works to minimise any inconvenience and safety risks to the public).

35. **Implementation of Demolition Pedestrian and Traffic Management Plan.** All works and demolition activities are to be undertaken in accordance with the approved Demolition Pedestrian and Traffic Management Plan (DPTMP). All controls in the DPTMP must be maintained at all times and all traffic management control must be undertaken by personnel having appropriate SafeWork NSW accreditation. Should the implementation or effectiveness of the DPTMP be impacted by surrounding major development not encompassed in the approved DPTMP, the DPTMP measures and controls are to be revised accordingly and submitted to Council's Transport Department for approval. A copy of the approved DPTMP is to be kept onsite at all times and made available to the accredited certifier or Council on request.

(Reason: This condition is to ensure that the measures/protocols stated in the approved DPTMP are carried out by the builder when demolition works are being undertaken).

36. **Waste Management.** Tip Dockets identifying the type and quantity of waste disposed/recycled during demolition are to be kept in accordance with the Site Waste Minimisation & Management Plan for spot inspections.

(Reason: To protect the environment).

PRIOR TO CONSTRUCTION CERTIFICATE

A Construction Certificate must be obtained from a Principal Certifying Authority to carry out the relevant building works approved under this consent. All conditions in this Section of the consent must be complied with before a Construction Certificate can be issued.

Council Officers can provide these services and further information can be obtained from Council's Customer Service Centre on 9952 8222.

Unless an alternative approval authority is specified (eg Council or government agency), the Principal Certifying Authority is responsible for determining compliance with the conditions in this Section of the consent.

Details of compliance with the conditions, including plans, supporting documents or other written evidence must be submitted to the Principal Certifying Authority.

37. **Section 7.11.** A monetary contribution for the services in Column A and for the amount in Column B shall be made to Council as follows:

A – Contribution Type	B – Contribution Amount
Community Facilities	\$ 535,683.52
Open Space & Recreation	\$ 1,032,768.79
Transport & Traffic Facilities	\$ 73,206.16
Plan Preparation & Administration	\$ 24,624.93
The total contribution is	\$ 1,666,283.40

These are contributions under the provisions of Section 7.11 of the *Environmental Planning and Assessment Act 1979* as specified in City of Ryde Section 7.11 Development Contributions Plan 2020, effective from 1 July 2020.

The above amounts are current at the date of this consent, and are subject to **quarterly** adjustment for inflation on the basis of the contribution rates that are applicable at time of payment. Such adjustment for inflation is by reference to the Consumer Price Index published by the Australian Bureau of Statistics (Catalogue No 5206.0) – and may result in contribution amounts that differ from those shown above.

The contribution must be paid **prior to the issue of any Construction Certificate**. Payment may be by EFTPOS (debit card only), CASH or a BANK CHEQUE made payable to the **City of Ryde**. Personal or company cheques will not be accepted.

A copy of the Section 7.11 Development Contributions Plan may be inspected at the Ryde Customer Service Centre, 1 Pope Street Ryde (corner Pope and Devlin Streets, within Top Ryde City Shopping Centre) or on Council's website <http://www.ryde.nsw.gov.au>.

(Reason: Statutory requirement).

38. **Compliance with Australian Standards.** The development is required to be carried out in accordance with all relevant Australian Standards. Details demonstrating compliance with the relevant Australian Standard are to be submitted to the Certifying Authority prior to the issue of the **Construction Certificate**.

(Reason: Statutory requirement).

39. **Structural Certification.** The applicant must engage a qualified practising structural engineer to provide structural certification in accordance with relevant BCA requirements prior to the release of the **Construction Certificate**.

(Reason: Statutory requirement).

40. **Security deposit.** The Council must be provided with security for the purposes of section 4.17 (6) of the *Environmental Planning and Assessment Act 1979* in a sum determined by reference to Council's Management Plan prior to the release of the **Construction**

Certificate. (category: other buildings with delivery of bricks or concrete or machine excavation.)

(Reason: Statutory requirement).

41. **Infrastructure Restoration and Administration Fee** must be paid to Council in accordance with Council's Management Plan prior to the release of the **Construction Certificate**.

(Reason: Statutory requirement).

42. **Driveway Access Levels.** The applicant is to apply to Council, pay the required fee, and have issued site specific driveway access levels by Council prior to the issue of the **Construction Certificate**.

(Reason: Statutory requirement).

43. **Long Service Levy.** Documentary evidence of payment of the Long Service Levy under Section 34 of the Building and Construction Industry Long Service Payments Act 1986 is to be submitted to the Certifying Authority prior to the issuing of the **Construction Certificate**.

(Reason: Statutory requirement).

44. **Sydney Water – Building Plan Approval.** The plans approved as part of the Construction Certificate must also be approved by Sydney Water prior to excavation or construction works commencing. This allows Sydney Water to determine if sewer, water or stormwater mains or easements will be affected by any part of your development. Please go to www.sydneywater.com.au/tapin to apply.

45. **External materials.** Building materials and finishes are to be finished with an anti-graffiti coating. Roofing and other external materials must be of low glare and reflectivity. The reflectivity of glass used in the external facades of the buildings is not to affect road traffic and must not cause discomfort through glare or intense heat to surrounding areas. Details of finished external surface materials, including colours and texture must be provided to the Certifying Authority prior to the release of the **Construction Certificate**.

(Reason: To ensure the use of appropriate external materials and minimise reflectivity).

46. **Lighting of common areas.** Details of lighting for internal driveways, car share parking areas, visitor parking areas, communal open spaces and pathways and the street frontage shall be submitted for approval prior to issue of the **Construction Certificate**. The details to include certification from an appropriately qualified person that there will be no offensive glare onto adjoining residents.

(Reason: To ensure lighting is used in all common areas).

47. **Fibre-ready facilities and telecommunications infrastructure.** Prior to the issue of any Construction Certificate satisfactory evidence is to be provided to the Certifying Authority that arrangements have been made for:

- (i) The installation of fibre-ready facilities to all individual lots and/or premises in a real estate development project so as to enable fibre to be readily connected to any premises that is being or may be constructed on those lots. Alternatively, demonstrate that the carrier has confirmed in writing that they are satisfied that the fibre ready facilities are fit for purpose.
And
- (ii) The provision of fixed-line telecommunications infrastructure in the fibre-ready facilities to all individual lots and/or premises in a real estate development project demonstrated through an agreement with a carrier.

(Note: real estate development project has the meanings given in Section 372Q of the Telecommunications Act).

(Reason: Statutory requirement).

48. **Fire Hydrant Enclosure.** Prior to the issue of a Construction Certificate for works above ground/Podium slab level, the Certifying Authority is to be provided with plans indicating that all fire hydrant and sprinkler booster valves and the like are enclosed in a manner that compliments the building and in accordance with the requirements of EP1.3 & EP1.4 of the BCA.

(Reason: To ensure essential services are appropriately screened.)

49. **Public Art.** Prior to the issue of any Construction Certificate for works above ground, a detailed Public Art Plan is to be approved by Council's Centres Coordinator. This plan is to be prepared by an arts and cultural planner, should align with the City of Ryde's Public Art Principles outlined in the City of Ryde Public Art Planning Guide for Developers and will be required to address the following:
- a. Specific project description
 - Aims and objectives
 - Statement of artistic intent
 - b. Thematic framework
 - How the artwork is developed in relation to the site
 - Response and interpretation of urban fabric and local culture
 - Explanation of the range of art forms and design applications
 - c. Concept drawings / descriptions of proposed public artworks (which correspond with architect drawings/plans approved as part of the development)
 - Integrated artworks
 - Site specific artworks
 - Proposed use of materials – robustness and durability
 - d. Project parameters and implementation
 - Arts management
 - Scope of works
 - Schedule of works and timeframe
 - Public art budget and budget breakdown
 - Engineering works
 - Construction schedule
 - Maintenance requirements and schedule
 - Decommissioning procedures.

(Reason: To ensure integrated artwork is provided and complies with the Ryde DCP 2014.)

50. **Ground Anchors.** The installation of permanent ground anchors into public roadway is not permitted. The installation of temporary ground anchors may be considered subject to an application to Council's City Works Directorate, and approval obtained as per the provisions of Section 138 of the Roads Act, 1993. The application for consent must include detailed structural engineering plans prepared by a Chartered Structural Engineer (registered on the NER of Engineers Australia), clearly nominating the number of proposed anchors, minimum depth below existing ground level at the boundary alignment and the angle of installation. The approval will be subject to:
- a. Advice being provided to the relevant Public Utility Authorities of the proposed anchoring, including confirmation that their requirements are being met.
 - b. the payment of all fees in accordance with Council's Schedule of Fees & Charges at the time of the issue of the approval, and
 - c. the provision of a copy of the Public Liability insurance cover of not less than \$20million with Council's interest noted on the policy. The policy shall remain valid until the de-commissioning of the ground anchors.

(Reason: Ensuring compliance with Council's relevant Planning Instruments).

51. **Public Domain Improvements – Design for Construction Certificate.** The public domain is to be upgraded at the Lachlan Avenue and Peach Tree Road frontage of the development site in accordance with the City of Ryde Public Domain Technical Manual PDTM Chapter 6 – Macquarie Park Corridor. The works shall include paving, multifunction light poles, street furniture and plantings, and must be completed to Council's satisfaction at no cost to Council. A public domain plan for the following works shall be submitted to, and approved by Council's City Works Directorate, prior to the issue of any Construction Certificate and include:

- (a) Footpath paving and reconstruction of existing infrastructure as specified in the condition of consent for public infrastructure works.
- (b) Street trees to be provided in accordance with the Macquarie Park Street Tree Master Plan.

Note: In designing the street tree layout, the consultant shall check and ensure that all new street trees are positioned such that there are no conflicts with the proposed street lights, utilities and driveway accesses. The proposed street lights will have priority over the street trees. All costs associated with the removal of existing street trees, where required, will be borne by the Developer.

- (c) All telecommunication and utility services are to be placed underground along the Lachlan Avenue / Peach Tree Road frontage. The extent of works required to achieve this outcome may involve works beyond the frontage of the development site. Plans are to be prepared and certified by a suitably qualified Electrical Design Consultant for decommissioning the existing network and constructing the new network; and are to be submitted to, and approved by Council and relevant utility authorities, prior to commencement of work. The public utility cover requirements shall be based on the approved Finished Surface Levels for the footpath, driveways and kerb ramps.

For the undergrounding of existing overhead electricity network, the requirements specified in the Ausgrid Network Standards NS130 and NS156 are to be met.

- (d) New street lighting serviced by metered underground power and on multifunction poles (MFPs) shall be designed and installed to Australian Standard AS1158 *Lighting for Roads and Public Spaces*.

Subject to design, it is expected that one new street light on a multi-function pole (MFP) will be required along the Lachlan Avenue / Peach Tree Road frontage. Lighting upgrade shall be in accordance with the City of Ryde Public Domain Technical Manual Section 6 – Macquarie Park Corridor. The consultant shall liaise with Council's City Works Directorate in obtaining Council's requirements and specifications for the MFP and components, including the appropriate LED luminaire and location of the meter boxes.

Plans are to be prepared and certified by a suitably qualified Electrical Design Consultant and submitted to, and approved by Council's City Works Directorate prior to lodgement of the scheme with Ausgrid for their approval.

Note: Council has prepared a design guide and schema for the provision of the street lighting on MFPs. A copy of the design guide including the design template and checklist, and the street lighting schema can be made available to the Electrical Design Consultant upon request to Council's City Works Directorate.

(Reason: Provision and upgrade of public assets and to ensure compliance with Council's relevant Planning Instruments).

52. **Public Infrastructure Works - Design for Construction Certificate.** Public infrastructure works shall be designed and constructed as outlined in this condition of consent. The approved works must be completed to Council's satisfaction at no cost to Council.

Engineering drawings prepared by a Chartered Civil Engineer (registered on the NER of Engineers Australia) are to be submitted to, and approved by Council's City Works Directorate prior to the issue of the Construction Certificate. The works shall be in accordance with City of Ryde DCP 2014 Part 4.5 Macquarie Park Corridor, Part 8.5 - Public Civil Works, Part 8.2 - Stormwater Management and City of Ryde Public Domain Technical Manual; Chapter 6 – Macquarie Park Corridor, where applicable.

The drawings shall include plans, sections, existing and finished surface levels, drainage pit configurations, kerb returns, existing and proposed signage and linemarking, and other relevant details for the new works. The drawings shall also demonstrate the smooth connection of the proposed works into the remaining street scape.

The Applicant must submit, for approval by Council as the Road Authority, full design engineering plans and specifications for the following infrastructure works:

- (a) The full reconstruction of half road width for the Lachlan Avenue / Peach Tree Road frontage of the development site in accordance with the City of Ryde DCP 2014 Part 8.5 - Public Civil Works, Clause 1.1.4 – Constructing Half Road.
- (b) The removal of all redundant vehicular crossings and replacement with new kerb and gutter, and the adjacent road pavement reconstruction.
- (c) The construction of new kerb and gutter along the Lachlan Avenue / Peach Tree Road frontage of the development site.
- (d) The kerb return at the corner of Peach Tree Road and Lachlan Avenue is to be improved for pedestrian amenity. Turning paths are required to be undertaken to ascertain the amount of space that the kerb can be re-aligned into the road to increase the verge width and hence the footpath width around this bend. Proposed kerb profiles are to be provided to ensure proper connections to existing kerb and gutter along Lachlan Avenue and Peach Tree Road.
- (e) The design of Lachlan Avenue / Peach Tree Road frontage shall be in accordance with the City of Ryde DCP 2014 Part 4.5 Macquarie Park Corridor, *Part 8.5 - Public Civil Works*, Austroads and the City of Ryde Public Domain Technical Manual Section 6: Macquarie Park Corridor.
- (f) Design of granite paving footpath along the Lachlan Avenue / Peach Tree Road frontage of the development site is required to be in accordance with the City of Ryde Public Domain Technical Manual Section 6 – Macquarie Park Corridor.
- (g) Stormwater drainage installations in the public domain shall be designed and constructed in accordance with the DA approved plans and DCP 2014 Part 8.2 - Stormwater Management.
- (h) Signage and line marking details are required to be provided on a separate plan and submitted with the set of plans for public domain. Proposed signage and line marking shall include traffic requirements, cycleway and waste collection requirements, if applicable.
- (i) Staging of the public civil works, if any, and transitions between the stages shall be clearly indicated on proposed design, including applicable specification for proposed transition work.
- (j) The relocation/adjustment of all public utility services affected by the proposed works shall be clearly indicated in proposed design. Written approval from the applicable Public Authority shall be submitted to Council along with the public domain plans submission. All the requirements of the Public Authority shall be complied with.

Notes:

1. The Applicant is advised to consider the finished levels of the public domain, including new or existing footpaths, prior to setting the floor levels for the proposed building.
2. Depending on the complexity of the proposed public domain works, the Council's review of each submission of the plans may take a minimum of six (6) weeks.

3. Prior to submission to Council, the Applicant is advised to ensure that the drawings are prepared in accordance with the standards listed in the City of Ryde DCP 2014 Part 8.5 - *Public Civil Works*, Section 5 "*Standards Enforcement*". A checklist has also been prepared to provide guidance, and is available upon request to Council's City Works Directorate.
4. City of Ryde standard drawings for public domain infrastructure assets are available on the Council website. Details that are relevant may be replicated in the public domain design submissions; however Council's title block shall not be replicated.

(Reason: Provision and upgrade of public assets and to ensure compliance with Council's relevant Planning Instruments and standards).

53. **Vehicle Footpath Crossing and Gutter Crossover.** A new vehicle footpath crossing and associated gutter crossover shall be constructed at the approved vehicular access location/s. Where there is an existing vehicle footpath crossing and gutter crossover, the reconstruction of this infrastructure may be required so it has a service life consistent with that of the development, and it is also compliant with current Council's standards and specifications. The location, design and construction shall be in accordance with City of Ryde Development Control Plan 2014 Part 8.3 *Driveways* and Part 8.5 - *Public Civil Works* and Australian Standard AS2890.1 – 2004 *Offstreet Parking*.

Prior to the issue of the Construction Certificate, an application shall be made to Council for approval under Section 138 of the Roads Act, 1993, for the construction of the vehicle footpath crossing and gutter crossover. The application shall include engineering design drawings of the proposed vehicle footpath crossing and gutter crossover.

The drawings shall be prepared by a suitably qualified Civil Engineer using the standard B85 vehicle profile. The drawings shall show the proposed vehicle footpath crossing width, alignment, and any elements impacting design such as service pits, underground utilities, power poles, signage and/or trees. In addition, a benchmark (to Australian Height Datum) that will not be impacted by the development works shall be included.

All grades and transitions shall comply with Australian Standard AS 2890.1-2004 *Offstreet Parking* and Council's specifications. The new crossing shall be constructed at right angles to the alignment of the kerb and gutter and located no closer than 1m from any power pole and 3m from any street tree unless otherwise approved by Council.

Fees are payable at the time of the application, in accordance with Council's Schedule of Fees and Charges.

The Council approved design details shall be incorporated into the plans submitted to the Principal Certifier, for the application of the Construction Certificate.

(Reason: Improved access and public amenity).

54. **Public Domain Works – Defects Security Bond.** To ensure satisfactory performance of the public domain works, a defects liability period of twelve (12) months shall apply to the works in the road reserve following completion of the development. The defects liability period shall commence from the date of issue by Council, of the Compliance Certificate for the External Works. The applicant shall be liable for any part of the work which fails to perform in a satisfactory manner as outlined in Council's standard specification, during the twelve (12) months' defects liability period. A bond in the form of a cash deposit or Bank Guarantee of **\$20,000** shall be lodged with the City of Ryde prior to the issue of a Construction Certificate to guarantee this requirement will be met. The bond will only be refunded when the works are determined to be satisfactory to Council after the expiry of the twelve (12) months defects liability period.

(Reason: Ensure compliance with specifications).

55. **Engineering plans assessment and works inspection fees.** The applicant is to pay to Council fees for assessment of all engineering and public domain plans and inspection of the completed works in the public domain, in accordance with Council's Schedule of Fees & Charges at the time of the issue of the plan approval, prior to such approval being granted by Council.

Note: An invoice will be issued to the Applicant for the amount payable, which will be calculated based on the design plans for the public domain works.

(Reason: Ensure compliance with Council's requirements).

56. **Anticipated Assets Register - Changes to Council Assets.** In the case that public infrastructure improvements are required, the developer is to submit a listing of anticipated infrastructure assets to be constructed on Council land as part of the development works. The new elements may include but are not limited to new road pavements, new Multi-Function Poles (MFPs), new concrete or granite footways, new street trees and tree pits, street furniture, bus shelters, kerb and gutter and driveways. This information should be presented via the Anticipated Asset Register file available from Council's Assets and Infrastructure Department. The listings should also include any assets removed as part of the works.

The Anticipated Asset Register is to assist with council's future resourcing to maintain new assets. There is potential for the as-built assets to deviate from the anticipated asset listing, as issues are resolved throughout the public domain assessment and Roads Act Approval process. Following completion of the public infrastructure works associated with the development, a Final Asset Register is to be submitted to Council, based upon the Public Domain Works-As-Executed plans.

(Reason: Record of civil works).

57. **Protection of Parking Sensors.** In the event that road works are undertaken in the vicinity of underground street parking sensors, the applicant must obtain written approval from Council's Manager Health, Building & Regulatory Services prior to the removal of any affected parking sensors, which are located under the road surface. This Council approval must be obtained prior to the issue of the Construction Certificate. Furthermore, the underground parking sensors must be specified on the relevant Construction Certificate documentation and shall be re-installed at the applicant's cost.

(Reason: To protect and re-install Council parking sensors).

58. **Flooding - Flood and Overland Flow Protection.** The property has been identified as being susceptible to flooding and overland flow during large storm events. In accordance with the floodplain management controls started within Council's DCP Part 8.2 (Stormwater and Floodplain Management), the following measures must be implemented in the development.

A certificate from a suitably qualified Chartered Civil Engineer (registered on the NER of Engineers Australia), or equivalent, shall be submitted to the Principal Certifying Authority stating compliance with this condition prior to the issue of the Construction Certificate for the following items:

- a) The applicant shall comply with the flood recommendations provided in the Flood Impact Assessment Report prepared by Catchment Simulation Solutions dated 19/08/2022.
- b) The habitable floor levels of all dwellings encompassed under this approval must not be constructed less than the approved Flood Impact Assessment Report prepared by Catchment Simulation Solutions dated 19/08/2022.
- c) All electrical connections and flood sensitive equipment shall be located above the 1% AEP (100 year ARI) flood level plus 500 mm freeboard.
Where it is not practical and feasible to install the equipment above the 1% AEP (100 year ARI) flood level plus 500 mm freeboard, the installations shall generally be in

accordance with the recommendations in ABCB Construction of Buildings in Flood Hazard Areas (2012) Section C2.9 - Requirements for Utilities.

- d) All basement carpark areas shall be designed to resist floodwater ingress for up to the Probable Maximum Flood (PMF) event. This includes protection of lifts, stairwells, ventilation shafts and other components which may otherwise create a water ingress risk.

A certificate from a suitably qualified Chartered Structural Engineer (registered on the NER of Engineers Australia), or equivalent, shall be submitted to the Principal Certifying Authority stating compliance with this condition prior to the issue of the Construction Certificate for the following items:

- a) All structures subject to flooding and overland flows must be constructed of flood compatible building components below the 1% AEP (100-year ARI) flood plus 500 mm freeboard.
- b) All structures subject to flooding and overland flows must be structurally designed to withstand the forces of floodwaters having regard to hydrostatic pressure, hydrodynamic pressure, the impact of debris and buoyancy forces up to the Probable Maximum Flood (PMF) event.

(Reason: to ensure flood protection measures are as per approved flood report).

- 59. **Stormwater - Council Drainage - Reflux Valve** - A design certificate from a suitably qualified Chartered Professional Civil Engineer (CPEng) or Registered Professional Civil Engineer (RPEng), or equivalent, shall be provided to the Principal Certifying Authority, prior to the issue of the Construction Certificate, confirming that the site drainage outlet pipe has been designed with a reflux valve in order to stop any backwater effect from Council's stormwater system for events up to the 1% AEP (100 year ARI).

(Reason: To ensure no water from Council's Stormwater Drainage Network enters the site).

- 60. **Stormwater - Council Drainage – Pit Connection Details** - The proposed site drainage connection to the {existing Council kerb inlet pit} shall be made via a uPVC pipe. The site drainage connection pipe shall be cut flush with the internal wall of the pit and should enter the pit perpendicular to the pit wall.

Amended stormwater plans complying with this condition shall be submitted to and approved by the Principal Certifying Authority prior to the issue of the Construction Certificate. The plans shall be prepared by a Chartered Professional Civil Engineer (CPEng) or Registered Professional Civil Engineer (RPEng).

(Reason: To ensure connection to pit compliance with Council's DCP and Australian Standards).

- 61. **Stormwater - Drainage Design Submission - Assessment Fee**. The applicant is to pay to Council fees for assessment of all relevant drainage design engineering plans, in accordance with Council's Schedule of Fees & Charges at the time of the issue of the plan approval, prior to such approval being granted by Council prior to the issue of the Construction Certificate.

Note: An invoice will be issued to the Applicant for the amount payable, which will be calculated based on the design plans for the Council drainage works and any additional reviews required.

(Reason: to ensure relevant Council assessment fees are paid).

- 62. **Stormwater - Drainage Design Submission**. Engineering drawings prepared by a Chartered Professional Civil Engineer (CPEng) or Registered Professional Civil Engineer (RPEng) are to be submitted to, and approved by Council's City Works Directorate for the proposed drainage works in accordance with Council's DCP (2014) Part 8.2 Stormwater and

Floodplain Management Technical Manual, prior to the issue of the Construction Certificate. The design submission shall address the following:

- a) A drainage system layout plan and structural details shall be drawn at a scale of 1:100, 1:200 or 1:250 and shall show the location of drainage pits and pipe and any other information necessary for the design and construction of the drainage system (i.e. utility services).
- b) A drainage system longitudinal section shall be drawn at a scale of 1:100 or 1:200 horizontally and 1:10 or 1:20 vertically and shall show the underground channel and pipe size, class and type, pipe support type in accordance with AS 3725 or AS 2032 as appropriate, pipeline chainages, pipeline grade, hydraulic grade line and any other information necessary for the design and construction of the drainage system (i.e. utility services).
- c) The location and as-built information (including dimensions and invert levels) of the existing Council kerb inlet pit as shown on {Civil Plans prepared by GSA Webber Design P/L Drawing No. C0400 (Project No. WD20106, Revision 2, 22 August 2022)} is to be confirmed by a suitably qualified surveyor. This shall be incorporated into the drainage engineering drawings.
- d) Special details including non-standard pits, pit benching and transitions shall be provided on the drawings at scales appropriate to the type and complexity of the detail being shown.
- e) The drainage system layout plan shall be documented on a detailed features survey plan that describes all existing structures, utility services, vegetation and other relevant features.
- f) New stormwater drainage pipes shall be located underneath the kerb & gutter alignment to facilitate future maintenance.

(Reason: to ensure the Stormwater Civil Design complies with Council's and Australian Standards and has sufficient details to obtain construction certificate).

63. **Stormwater Council Drainage Works Bond.** To ensure satisfactory performance of the excavation, laying of pipes, back filling, disposal of excess soil and restoration including new kerb and gutter works, a maintenance period of twelve (12) months shall apply to the trunk drainage works following completion of the development.

The maintenance period shall commence from the date of issue by Council, of the Compliance Certificate for the Council Drainage Works. The applicant shall be liable for any part of the work which fails to perform in a satisfactory manner as outlined in Council's standard specification, during the twelve (12) months' maintenance period. Any defects identified during the maintenance period shall be rectified at their cost within a period of thirty (30) days after notification from Council. The details of the defects and repairs shall be documented and certified by a suitably qualified Civil Engineer (registered on the NER of Engineers Australia), or equivalent.

A bond in the form of a cash deposit or Bank Guarantee of \$88,000 shall be lodged with the City of Ryde prior to the issue of a Construction Certificate to guarantee this requirement will be met.

Council engineers from the City Works Directorate shall be notified in writing three (3) months prior to the expiry of the maintenance period for the inspection of the trunk drainage works and restored areas. Details and certifications of the defects and repairs shall be provided to Council's City Works Directorate at this notification. The inspection shall be jointly conducted between Council engineers and the applicant's site engineers.

Notifications and inspections may be arranged by telephoning Council's Customer Service Section on 9952 8222 during office hours. A minimum of five (5) working days' notice shall be given to Council to inspect the works.

The bond will only be refunded when the works are determined to be satisfactory to Council, in writing, after the expiry of the twelve (12) months maintenance period.

(Reason: to ensure satisfactory performance of drainage works during 12 months after the Compliance Certificate for the Council Drainage Works was issued).

64. **Construction Pedestrian and Traffic Management Plan.** A Construction Pedestrian and Traffic Management Plan (CPTMP) shall be prepared by a suitably qualified traffic engineering consultant and submitted to and approved by Council's Transport Department prior to issue of any Construction Certificate.

Due to heavy traffic congestion throughout Macquarie Park, truck movements will be restricted during the major commuter peak times being 8.00-9.30am and 4.30-6.00pm. Truck movements must be agreed with Council's Traffic and Development Engineer prior to submission of the CPTMP.

All fees and charges associated with the review of this plan are to be paid in accordance with Council's Schedule of Fees and Charges with payment to be made prior to receipt of approval from Council's Transport Department for the CPTMP.

The CPTMP must include but not limited to the following:

- i. Make provision for all construction materials to be stored on site, at all times.
- ii. Specify construction truck routes and truck rates. Nominated truck routes are to be restricted to State Roads or non-light vehicle thoroughfare routes where possible.
- iii. Make provision for parking onsite once the basement level parking is constructed. All Staff and Contractors are to use the basement parking once available.
- iv. Specify the number of truck movements to and from the site associated with the construction works. Temporary truck standing/ queuing in a public roadway/ domain in the vicinity of the site are not permitted unless approved by City Works Directorate.
- v. Include Traffic Control Plan(s)/Traffic Guidance Scheme(s) prepared by a SafeWork NSW accredited designer for any activities involving the management of vehicle and pedestrian traffic and results in alterations to the existing traffic conditions in the vicinity of the site.
- vi. Specify appropriate parking measures for construction staff and sub-contractors to minimise the impact to the surrounding public parking facilities.
- vii. Specify that a minimum Fourteen (14) days notification must be provided to adjoining property owners prior to the implementation of any temporary traffic control measure.
- viii. Include a site plan showing the location of any site sheds, location of requested Work Zones, anticipated use of cranes and concrete pumps, structures proposed on the footpath areas (hoardings, scaffolding or shoring) and any tree protection zones around Council street trees.
- ix. Take into consideration the combined construction activities of other development(s) and/or roadworks in the surrounding area. To this end, the consultant preparing the CPTMP must engage and consult with relevant stakeholders undertaking such works within a 250m radius of the subject site to ensure that appropriate measures are in place to prevent the combined impact of construction activities. These communications must be documented and submitted to Council prior to work commencing on site.
- x. Specify spoil management process and facilities to be used on site.
- xi. Specify that the roadway (including footpath) must be kept in a serviceable condition for the duration of construction. At the direction of Council, undertake remedial treatments such as patching at no cost to Council.
- xii. Comply with relevant sections of the following documents:
 - The Australian Standard *Manual of Uniform Traffic Control Devices* (AS1742.3-2019),
 - TfNSW' *Traffic Control at Work Sites* technical manual; and
 - Part 8.1 of City of Ryde *Development Control Plan 2014: Construction Activities*.

(Reason: This condition is to ensure public safety and minimise any impacts to the adjoining pedestrian and vehicular traffic systems. The CPTMP is intended to minimise impact of demolition and construction activities on the surrounding community, in terms of vehicle traffic (including traffic flow and parking) and pedestrian amenity adjacent to the site).

65. **Waste and Service Vehicle Access.** Access to the on-site loading bay area including ramp grades, transitions and height clearance shall be designed for safe forward in and forward out access of Council's 10.8m long waste vehicle, as a minimum requirement. The minimum height clearance required is 4.5m, measured from the floor level to the lowest point of any overhead structures/service provisions such as pipes.

Plans showing the ramp grades, transitions and height clearance and swept path diagrams of a Council's 10.8m long garbage truck shall be reviewed and approved by a chartered civil engineer (with evidence of this certification submitted to Council)-prior to the issue of the Construction Certificate. Swept path diagrams must include details of the road including, kerb line, line marking, signs, traffic devices, power poles, other structures and neighbouring driveways.

(Reason: This condition is intended to assist with the safety and efficiency of heavy vehicles entering and exiting the site).

66. **Waste Management Plan.** Any changes to the Waste Management Plan dated 04/05/22 or DA2100 plans which were utilised to evaluate the waste collection by Council, have to be approved by the Waste Department at the City of Ryde Council before the issue of a Construction Certificate to ensure the waste collection is not affected.

(Reason: To ensure that waste collection is consistent with the Waste Management Plan).

67. **Waste Management.** Waste management and collection shall satisfy the following:
- a) All waste storage areas which have a doorway must be wide enough to allow the bins allocated to the property to fit through opening including the door.
 - 1,100L Bins – width 1.4m, depth 1.1m, height 1.4m.
 - 660L Bins – width 1.3m, depth 0.8m, height 1.3m.
 - b) Two separate receptacles must be provided inside each dwelling to store up to two days' worth of waste and recyclables awaiting transfer to the communal bin disposal areas to ensure source separation of recyclables.
 - c) Waste trucks will enter the basement from Lachlan Avenue in a forward direction and reverse into the loading bay on the lower ground floor and exit in a forward direction.
 - d) The height clearance excluding any service pipes is to be 4.5m for the truck to enter the basement and service the bins.
 - e) A bulky waste storage of a minimum of 20m² is to be provided adjacent to the loading bay for residents to store any unwanted household items awaiting the booked Household Cleanup Collection.
 - f) All garbage and recycling rooms must be constructed in accordance with the following requirements:
 - i. The room must be of adequate dimensions to accommodate all waste containers, and allow easy access to the containers for users and servicing purposes;
 - ii. The floor must be constructed of concrete finished to a smooth even surface, coved to a 25mm radius at the intersections with the walls and any exposed plinths, and graded to a floor waste connected to the sewerage system;
 - iii. The floor waste must be provided with a fixed screen in accordance with the requirements of Sydney Water Corporation;
 - iv. The walls must be constructed of brick, concrete blocks or similar solid material cement rendered to a smooth even surface and painted with a light coloured washable paint;
 - v. The ceiling must be constructed of a rigid, smooth-faced, non-absorbent material and painted with a light coloured washable paint;

- vi. The doors must be of adequate dimensions to allow easy access for servicing purposes and must be finished on the internal face with a smooth-faced impervious material;
- vii. Any fixed equipment must be located clear of the walls and supported on a concrete plinth at least 75mm high or non-corrosive metal legs at least 150mm high;
- viii. The room must be provided with adequate natural ventilation direct to the outside air or an approved system of mechanical ventilation;
- ix. The room must be provided with adequate artificial lighting; and
- x. A hose with a trigger nozzle must be provided in or adjacent to the room to facilitate cleaning.

(Reason: To ensure that waste storage and collection can be properly carried out).

68. **Vehicle Access & Parking.** All internal driveways, vehicle turning areas, garages and vehicle parking space/ loading bay dimensions must be designed and constructed to comply with the relevant section of AS 2890 (Offstreet Parking standards).

With respect to this, the following revision(s) / documentation must be provided with the plans submitted with the application for a Construction Certificate;

- a) All internal driveways and vehicle access ramps must have ramp grades, transitions and height clearances complying with AS 2890 for all types of vehicles accessing the parking area. To demonstrate compliance with this Australian Standard, the plans to be prepared for the Construction Certificate must include a driveway profile, showing ramp lengths, grades, surface RL's and overhead clearances taken along the vehicle path of travel from the crest of the ramp to the basement. The driveway profile must be taken along the steepest grade of travel or sections having significant changes in grades, where scraping or height restrictions could potentially occur and is to demonstrate compliance with AS 2890 for the respective type of vehicle.
- b) To ensure that service vehicles have sufficient headroom clearance when accessing loading bay areas, an accessway / ramp profile must be produced along the vehicle path of travel for all service vehicles. The plan must detail all levels and overhead clearances (allowing for services) along the vehicle path of travel from the vehicle entry at the boundary to the loading bay area and must demonstrate that the required overhead clearance (SRV – 3.5m / MRV & HRV – 4.5m) is achieved along this path.
- c) To allow for adequate sight distance from a vehicle exiting the property to pedestrians in the footpath area, the driveway entry at the property boundary must have clear sight through a splayed region defined by Figure 3.3 of AS 2890.1 (2004) and Council's DCP. Ideally the region is to be free of all obstructions, otherwise any solid obstructions are to be no greater than 900mm above finished surfaces and horizontal fencing/ slats are to permit more than 50% visual permeability.
- d) Convex mirror shall be incorporated to provide drivers the view of the oncoming vehicles where views of oncoming vehicles are constricted.
- e) Wheel stops shall be provided to restrain vehicle contact with wall and limit the travel of a vehicle into a parking space in accordance with AS2890.1.

These amendment(s) must be clearly marked on the plans submitted to the Accredited Certifier prior to the issue of a Construction Certificate.

(Reason: To ensure the vehicle access and parking area is in accordance with the require standards and safe for all users.)

- 68A. **Electric Vehicle Charging Points.** Prior to a Construction Certificate being issued, amended basement plans are to be submitted to the Principal Certifying Authority depicting Electric Vehicle charging points at a minimum rate of 10% of each category of parking (10

residential, 1 visitor and 1 car share) with a minimum 'Level 2' charging point consisting of single or three-phase point with a power range of 7kW-22kW, as defined by NSW Electric and Hybrid Vehicle Plan, Future Transport 2056 (21 January 2019). Further, capability is to be provided within the switchboards and cabling for all parking spaces to be converted in the future.

(Reason: To ensure that the development adequately caters for owners of electric vehicles.)

69. **Car share parking spaces.** To maintain, facilitate and encourage the use of the car share parking spaces within the development, the following requirements are to be maintained for the ongoing serviceable life of the development:

- a) 2 car share spaces must be publicly accessible 7 days of the week, 24 hours of the day. The spaces are to be well lit with safe pedestrian access.
- b) Car share spaces are to be clearly sign-posted, designated and line marked in the development.
- c) The car share spaces are to remain as common property in any future strata subdivision of the development.
- d) The car share spaces are to be provided with sufficient cellular connectivity as well as providing the requisite infrastructure (e.g., conduits, wiring, adequately sized power supply and metering cabinet) so that EV chargers can be readily provided.

Evidence demonstrating the above requirements is to be provided on the Construction Certificate plans.

(Reason: To ensure the effective operation of the car share spaces).

70. **Stormwater Management.** Stormwater runoff from the development shall be collected and piped by gravity flow to the proposed kerb inlet pit within the site frontage, generally in accordance with the plans by Webber Design, Project No.: WD20106, Dated 22 August 2022 subject to any variations marked in red on the approved plans or noted following:
- a) The proposed stormwater works on Peach Tree Road and Lachlan Avenue and connection from the proposed development to the public drainage infrastructure will require the approval of Council's City Works (Stormwater) Department. Any conditions associated with this approval must be noted on the plans.

The detailed plans, documentation and certification of the drainage system must be submitted with the application for a Construction Certificate and prepared by a suitably qualified Civil Engineer and comply with the following:

- The certification must state that the submitted design (including any associated components such as WSUD measures, pump/ sump, absorption, onsite dispersal, charged system) are in accordance with the requirements of AS 3500.3 (2003) and any further detail or variations to the design are in accordance with the requirements of Council's DCP 2014 Part 8.2 (*Stormwater and Floodplain Management*) and associated annexures.
- The submitted design is consistent with the approved architectural and landscape plan and any revisions to these plans required by conditions of this consent.

(Reason: To ensure that the development's stormwater management system is aligned with the controls and objectives of the City of Ryde DCP 2014 Part 8.2)

71. **Stormwater Management - Onsite Stormwater Detention.** In accordance with Council's community stormwater management policy, an onsite stormwater detention (OSD) system must be implemented in the stormwater management system of the development. As a minimum, the OSD system must:

- a) Provide site storage requirement (SSR) and permissible site discharge (PSD) design parameters complying with Council's DCP 2014 Part 8.2 (*Stormwater and Floodplain Management*).

- b) Incorporate a sump and filter grate (trash rack) at the point of discharge from the OSD system to prevent gross pollutants blocking the system or entering the public drainage service,
- c) Ensure the OSD storage has sufficient access for the purpose of ongoing maintenance of the system, and
- d) Ensure the drainage system discharging to the OSD system is of sufficient capacity to accommodate the 100 year ARI 5 minute storm event.

Detailed engineering plans and certification demonstrating compliance with this condition & Council's DCP 2014 Part 8.2 (*Stormwater and Floodplain Management*) are to be submitted with the application for a Construction Certificate.

(Reason: To ensure that the design of the OSD is compliant with the requirements of the City of Ryde DCP 2014 Part 8.2)

72. **Stormwater Management - Pump System.** The basement pump system must be dual submersible and shall be sized and constructed in accordance with Section 9.3 of AS 3500.3.

The wet well must be designed and constructed in accordance with section 9.3 of AS 3500.3, except that the sump volume is to be designed to accommodate storage of runoff accumulating from the 100yr ARI 3 hour storm event, in the event of pump failure as per the requirements of Council's DCP - Part 8.2 (*Stormwater and Floodplain Management*).

Direct connection of the pumps rising main to the kerb will not be permitted. The rising main must discharge to the sites drainage system, upstream of the onsite detention system (if one is provided) or any rainwater tank which is utilised for irrigation only.

Pump details and documentation demonstrating compliance with this condition are to be submitted in conjunction with the Stormwater Management Plan for the approval of the Certifying Authority, prior to the release of any Construction Certificate for construction of the basement level.

(Reason: To ensure that the design of the pump system is compliant with the requirements of the City of Ryde DCP 2014 Part 8.2 and relevant Australian Standards.)

73. **Stormwater Management – Connection to Public Drainage System.** Engineering plans detailing the connection of the developments stormwater management system to the public drainage service must be forwarded to Council and an inspection fee (as per Council's schedule of fees and charges current at the time of payment) must be paid to Council prior to the issue of the Construction Certificate.

Council must be notified when the connection has been made to the pit / pipe and an inspection must be made by a Council officer prior to restoration/ backfill at the point of connection for approval.

Where the point of connection is in neighbouring property, the applicant must provide written notification to the affected property owner no less than a week prior to the works and all structures/ surface areas affected by the drainage connection works must be reinstated at the completion of this activity, at no cost to the affected property owner.

(Reason: To ensure that the connection is in accordance with the City of Ryde 2014 DCP Part 8.2 and to Council's satisfaction.)

74. **Vehicle Footpath and Gutter Crossover Approval.** A new vehicle footpath crossing and associated gutter crossover shall be constructed at the approved vehicular access location/s. Where there is an existing vehicle footpath crossing and gutter crossover, the reconstruction of this infrastructure may be required in order that it has a service life consistent with that of the development and ensure it is compliant with current Council's standards and

specifications. The location, design and construction shall be in accordance with Council's DCP 2014 Part 8.3 (Driveways), Part 8.5 (Public Civil Works) and Australian Standard AS2890.1 – 2004 (Offstreet Parking).

Prior to the issue of the Construction Certificate, an application shall be made to Council for approval under Section 138 of the Roads Act, 1993, for the construction of the vehicle footpath and gutter crossover. The application shall include engineering design drawings of the proposed vehicle footpath crossing and gutter crossover. The drawings shall be prepared by a suitably qualified Civil Engineer using the standard B85 vehicle profile. The drawings shall show the proposed vehicle footpath crossing width, alignment, and any elements impacting design such as service pits, underground utilities, power poles, signage and/or trees. In addition, a benchmark (to Australian Height Datum) that will not be impacted by the development works shall be included. All grades and transitions shall comply with Australian Standard AS 2890.1-2004 Offstreet Parking and Council's specifications. The new crossing shall be constructed at right angle to the alignment of the kerb and gutter, and located no closer than 1m from any power pole and 3m from any street tree unless otherwise approved by Council.

An assessment and inspection fee (as per Council's schedule of fees and charges current at the time of payment) must be paid to Council prior to the issue of the Construction Certificate.

The Council approved design details shall be incorporated into the plans submitted for the application of the Construction Certificate.

(Reason: The design and levels of the new driveway crossover(s) will require approval from Council under Section 138 of the Roads Act)

75. **Geotechnical Design, Certification and Monitoring Program.** The applicant must engage a suitably qualified and practicing Engineer having experience in the geotechnical and hydrogeological fields, to design, certify and oversee the construction of all subsurface structures associated with the development. This engineer is to prepare the following documentation:
- a) Certification that the civil and structural details of all subsurface structures are designed to:
 - Provide appropriate support and retention to neighbouring property,
 - Ensure there will be no ground settlement or movement during excavation or after construction (whether by the act of excavation or dewatering of the excavation) sufficient to cause an adverse impact to adjoining property or public infrastructure, and,
 - Ensure that the treatment and drainage of groundwater will be undertaken in a manner which maintains the pre-developed groundwater regime, so as to avoid constant or ongoing seepage to the public drainage network and structural impacts that may arise from alteration of the pre-developed groundwater table.
 - b) A Geotechnical Monitoring Program (GMP) to be implemented during construction that:
 - Is based on a geotechnical investigation of the site and subsurface conditions, including groundwater,
 - Details the location and type of monitoring systems to be utilised, including those that will detect the deflection of all shoring structures, settlement and excavation induced ground vibrations to the relevant Australian Standard;
 - Details recommended hold points and trigger levels of any monitoring systems, to allow for the inspection and certification of geotechnical and hydro-geological measures by the professional engineer; and;
 - Details action plan and contingency for the principal building contractor in the event these trigger levels are exceeded.
 - Is in accordance with the recommendations of the Geotechnical Report by Douglas Partners, Project Number 202324.00, Revision No.: R.001.Rev3, Dated 4 July 2022.

The certification and the GMP is to be submitted for the approval of the Accredited Certifier prior to the issue of the Construction Certificate.

(Reason: To ensure there are no adverse impacts arising from excavation works.)

76. **Dilapidation Survey.** A dilapidation survey is to be undertaken that addresses all properties that may be affected by the construction work. A copy of the dilapidation survey is to be submitted to the Accredited Certifier and Council prior to the release of the Construction Certificate. As a minimum, the scope of the report is to include:

- a) 155 – 157 Herring Road
- b) 5 Lachlan Avenue
- c) 1 Peach Tree Road
- d) 2 Mahogany Avenue

(Reason: To clarify any claims of damage made by adjoining property owners.)

77. **Site Dewatering Plan.** A Site Dewatering Plan (SDP) must be prepared and submitted with the application for a Construction Certificate. The SDP is to comprise of detailed plans, documentation and certification of the system, must be prepared by a chartered civil engineer and must, as a minimum, comply with the following:

- a) All pumps used for onsite dewatering operations are to be installed on the site in a location that will minimise any noise disturbance to neighbouring or adjacent premises and be acoustically shielded so as to prevent the emission of offensive noise as a result of their operation.
- b) Pumps used for dewatering operations are not to be fuel based so as to minimise noise disturbance and are to be electrically operated.
- c) Discharge lines are to be recessed across footways so as to not present as a trip hazard and are to directly connect to the public inground drainage infrastructure where ever possible.
- d) The maximum rate of discharge is to be limited to the sites determined PSD rate or 30L/s if discharging to the kerb.
- e) Certification must state that the submitted design is in accordance with the requirements of this condition and any relevant sections of Council's DCP 2014 Part 8.2 (Stormwater and Floodplain Management) and associated annexures.
- f) Incorporate water treatment measures to prevent the discharge of sediment laden water to the public drainage system. These must be in accordance with the recommendations of approved documents which concern the treatment and monitoring of groundwater.
- g) Any details, approval or conditions concerning dewatering (eg Dewatering License) as required by the Water Act 1912 and any other relevant NSW legislation.
- h) Approval and conditions as required for connection of the dewatering system to the public drainage infrastructure as per Section 138 of the Roads Act.

(Reason: To ensure that stormwater runoff and the disposal of groundwater from the excavation is drained in an appropriate manner and without detrimental impacts to neighbouring properties and downstream water systems.)

78. **Erosion and Sediment Control Plan.** An Erosion and Sediment Control Plan (ESCP) must be prepared by a suitably qualified consultant, detailing soil erosion control measures to be implemented during construction. The ESCP is to be submitted with the application for a Construction Certificate. The ESCP must be in accordance with the manual "Managing Urban Stormwater: Soils and Construction" by NSW Department – Office of Environment and Heritage and must contain the following information:

- a) Existing and final contours
- b) The location of all earthworks, including roads, areas of cut and fill
- c) Location of all impervious areas
- d) Location and design criteria of erosion and sediment control structures

- e) Location and description of existing vegetation
- f) Site access point/s and means of limiting material leaving the site
- g) Location of proposed vegetated buffer strips
- h) Location of critical areas (drainage lines, water bodies and unstable slopes)
- i) Location of stockpiles
- j) Means of diversion of uncontaminated upper catchment around disturbed areas
- k) Procedures for maintenance of erosion and sediment controls
- l) Details for any staging of works
- m) Details and procedures for dust control.

(Reason: To protect downstream properties, Council's drainage system and natural watercourses from sediment build-up transferred by stormwater runoff from the site.)

79. **Construction Noise Management Plan (demolition and construction).** A construction noise management plan must be prepared by a suitably qualified and experienced noise expert in accordance with the noise management levels in EPA's Interim Construction Noise Guideline and accompany the application for a Construction Certificate. The Certifying Authority must be satisfied the Construction Noise Management Plan will minimise noise impacts on the community during the construction of the development.

The Construction Noise Management Plan must include:

- a) Hours of construction
- b) Identification of nearby residences and other sensitive land uses.
- c) Assessment of expected noise impacts.
- d) Describe the measures to be implemented to manage high noise generating works such as piling, in close proximity to sensitive receivers
- e) Include strategies that have been developed with the community for managing high noise generating works.
- f) Community Consultation and the methods that will be implemented for the whole project to liaise with affected community members to advise on and respond to noise related complaints and disputes.
- g) Include a complaints management system that would be implemented for the duration of the construction
- h) Include a program to monitor and report on the impacts and environmental performance of the development.

(Reason: To ensure noise impacts during construction are appropriately managed).

80. **Noise impact on residential building.** Prior to the issue of a Construction Certificate written certification from a suitably qualified person(s) shall be submitted to the Principal Certifying Authority and Council, stating that appropriate design and construction materials are to be utilised within the development to ensure compliance with the following noise criteria specified for managing the noise impact on residential buildings from rail corridors and/or busy roads:
- (a) In any bedroom in the building: 35dB(A) between 10pm – 7am
 - (b) Anywhere else in the building (other than a garage, hallway, kitchen or bathroom: 40dB(A) at any time.

(Reason: To ensure the measures to mitigate noise impacts are implemented).

81. **Contamination and Remediation.** Prior to the issue of a Construction Certificate written certification from a suitably qualified person(s) shall be submitted to the Principal Certifying Authority and Council, stating that the land is suitable for residential use, without the need for further remediation.

(Reason: To ensure the land is suitable for residential use).

PRIOR TO COMMENCEMENT OF CONSTRUCTION

Prior to the commencement of any demolition, excavation, or building work the following conditions in this Part of the Consent must be satisfied, and all relevant requirements complied with at all times during the operation of this consent.

82. Site Sign

- (a) A sign must be erected in a prominent position on site, prior to the commencement of construction:
 - (i) showing the name, address and telephone number of the Principal Certifying Authority for the work,
 - (ii) showing the name of the principal contractor (if any) or the person responsible for the works and a telephone number on which that person may be contacted outside working hours, and
 - (iii) stating that unauthorised entry to the work site is prohibited.
- (b) Any such sign must be maintained while the building work, subdivision work or demolition work is being carried out, but must be removed when the work has been completed.

(Reason: Statutory requirement).

83. Residential building work – insurance. In the case of residential building work for which the Home Building Act 1989 requires there to be a contract of insurance in force in accordance with Part 6 of that Act, that such a contract of insurance is in force before any building work authorised to be carried out by the consent commences.

(Reason: Statutory requirement).

84. Residential building work – provision of information. Residential building work within the meaning of the Home Building Act 1989 must not be carried out unless the PCA has given the Council written notice of the following information:

- (a) in the case of work for which a principal contractor is required to be appointed:
 - (i) the name and licence number of the principal contractor; and
 - (ii) the name of the insurer by which the work is insured under Part 6 of that Act.
- (b) in the case of work to be done by an owner-builder:
 - (i) the name of the owner-builder; and
 - (ii) if the owner-builder is required to hold an owner-builder permit under that Act, the number of the owner-builder permit.

If any of the above arrangements are changed while the work is in progress so that the information notified under this condition becomes out of date, further work must not be carried out unless the PCA for the development to which the work relates has given the Council written notice of the updated information (if Council is not the PCA).

(Reason: Statutory requirement).

85. Excavation adjacent to adjoining land

- (a) If an excavation extends below the level of the base of the footings of a building on an adjoining allotment of land, the person causing the excavation must, at their own expense, protect and support the adjoining premises from possible damage from the excavation, and where necessary, underpin the adjoining premises to prevent any such damage.
- (b) The applicant must give at least seven (7) days notice to the adjoining owner(s) prior to excavating.
- (c) An owner of the adjoining allotment of land is not liable for any part of the cost of work carried out for the purposes of this condition, whether carried out on the allotment of land being excavated or on the adjoining allotment of land.

(Reason: Statutory requirement).

86. **Safety fencing.** The site must be fenced prior to the commencement of construction, and throughout demolition and/or excavation and must comply with Safework NSW requirements and be a minimum of 1.8m in height.

(Reason: Statutory requirement).

87. **Proposed Property Addressing.** Proposed addressing for the new development must have been lodged with Council, prior to the commencement of construction.

(Reason: To ensure the address of the development meets Council's requirements).

88. **Notice of Intention to Commence Public Domain Works –** Prior to commencement of the public domain works, a *Notice of Intention to Commence Public Domain Works* shall be submitted to Council's City Works Directorate. This Notice shall include the name of the Contractor who will be responsible for the construction works, and the name of the Supervising Engineer who will be responsible for providing the certifications required at the hold points during construction, and also obtain all Road Activity Permits required for the works.

Note: Copies of several documents are required to be lodged with the Notice; no fee is chargeable for the lodgement of the Notice.

(Reason: Ensure compliance and record of works).

89. **Notification of adjoining owners & occupiers – public domain works -** The Applicant shall provide the adjoining owners and occupiers written notice of the proposed public domain works a minimum two weeks prior to commencement of construction. The notice is to include a contact name and number should they have any enquiries in relation to the construction works. The duration of any interference to neighbouring driveways shall be minimised; and driveways shall be returned to the operational condition as they were prior to the commencement of works, at no cost to the owners.

(Reason: Ensure compliance and record of works).

90. **Pre-construction inspection -** A joint inspection shall be undertaken with Council's Engineer from City Works Directorate prior to commencement of any public domain works. A minimum 48 hours' notice will be required when booking for the joint inspection.

(Reason: Ensure compliance and communicate Council's requirements).

91. **Pre-Construction Dilapidation Report.** To ensure Council's infrastructures are adequately protected a pre-construction dilapidation report on the existing public infrastructure in the vicinity of the proposed development and along the travel routes of all construction vehicles, up to 100m either side of the development site, is to be submitted to Council. The report shall detail, but not be limited to, the location, description and photographic record (in colour) of any observable defects to the following infrastructure where applicable.
- (a) Road pavement,
 - (b) Kerb and gutter,
 - (c) Footpath,
 - (d) Drainage pits,
 - (e) Traffic signs, and
 - (f) Any other relevant infrastructure.

The report is to be dated and submitted to, and accepted by Council's City Works Directorate, prior to any work commencing.

All fees and charges associated with the review of this report shall be in accordance with Council's Schedule of Fees and Charges and shall be paid at the time that the Dilapidation Report is submitted.

(Reason: Protection of Council's infrastructure).

92. **Road Activity Permits** - To carry out work in, on or over a public road, the Consent of Council is required as per the *Roads Act 1993*. Prior to the commencement of the relevant works and considering the lead times required for each application, permits for the following activities, as required and as specified in the form "*Road Activity Permits Checklist*" (available from Council's website) are to be obtained and copies submitted to Council with the *Notice of Intention to Commence Public Domain Works*:
- a) Road Use Permit - The applicant shall obtain a Road Use Permit where any area of the public road or footpath is to be occupied as construction workspace, other than activities covered by a Road Opening Permit or if a Work Zone Permit is not obtained. The permit does not grant exemption from parking regulations.
 - b) Work Zone Permit - The applicant shall obtain a Work Zone Permit where it is proposed to reserve an area of road pavement for the parking of vehicles associated with a construction site. Separate application is required with a Traffic Management Plan for standing of construction vehicles in a trafficable lane. **A Roads and Maritime Services Road Occupancy Licence shall be obtained for any works that may impact on traffic flows on a State Road.**
 - c) Road Opening Permit - The applicant shall apply for a road-opening permit and pay the required fee where a new pipeline is to be constructed within or across the road pavement or footpath. Additional road opening permits and fees are required where there are connections to public utility services (e.g. telephone, telecommunications, electricity, sewer, water or gas) within the road reserve. No opening of the road or footpath surface shall be carried out without this permit being obtained and a copy kept on the site.
 - d) Elevated Tower, Crane or Concrete Pump Permit - The applicant shall obtain an Elevated Tower, Crane or Concrete Pump Permit where any of these items of plant are placed on Council's roads or footpaths. This permit is in addition to either a Road Use Permit or a Work Zone Permit.
 - e) Crane Airspace Permit - The applicant shall obtain a Crane Over Airspace Permit where a crane on private land is operating in the air space of a Council road or footpath. Approval from the Roads and Maritime Services for works on or near State Roads is required prior to lodgement of an application with Council. A separate application for a Work Zone Permit is required for any construction vehicles or plant on the adjoining road or footpath associated with use of the crane.
 - f) Hoarding Permit - The applicant shall obtain a Hoarding Permit and pay the required fee where erection of protective hoarding along the street frontage of the property is required. The fee payable is for a minimum period of 6 months and should the period be extended an adjustment of the fee will be made on completion of the works. The site must be fenced to a minimum height of 1.8 metres prior to the commencement of construction and throughout demolition and/or excavation and must comply with WorkCover (New South Wales) requirements.
 - g) Skip Bin on Nature Strip - The applicant shall obtain approval and pay the required fee to place a Skip Bin on the nature strip where it is not practical to locate the bin on private property. No permit will be issued to place skips.

(Reason: Legal requirement).

93. **Temporary Footpath Crossing** - A temporary footpath crossing, if required, must be provided at the vehicular access points. It is to be 4 metres wide, made out of sections of hardwood with chamfered ends and strapped with hoop iron, and a temporary gutter crossing must be provided.

(Reason: Ensure public amenity and safety.)

94. **Ryde Traffic Committee Approval** - A plan showing details of the proposed signage and line marking, and/or traffic devices including pedestrian refuge, pedestrian crossing or LATM measures, shall be submitted to the Council and approved by the Ryde Traffic Committee prior to the installation of any traffic devices, signage and linemarking.

(Reason: Ensure compliance.)

95. **Stormwater - Pre-Construction CCTV Report.** To ensure Council's stormwater infrastructures are adequately protected, a pre-construction CCTV report on the existing stormwater pipeline and the existing kerb lintel pit in the vicinity of the proposed development is to be submitted to Council prior to the commencement of any construction works.

An electronic closed circuit television report (track mounted CCTV camera footage) prepared by an accredited operator (with a certificate of attainment in NWP331A Perform Conduit Condition Evaluation) that assesses the condition of the existing drainage line adjacent to the site is required. This report shall include the date of CCTV inspection and shall be submitted to Council's City Works Directorate for approval prior to commencement of any works.

Note: The applicant shall contact Council's Assets and Integration section to obtain a map of Council's existing Stormwater Network in the vicinity prior to conducting the CCTV survey.

All fees and charges associated with the review of the report shall be in accordance with Council's Schedule of Fees and Charges, and shall be paid at the time that the report is submitted.

(Reason: to verify the pre-construction condition of Council's asset/s).

96. **Stormwater - Council Drainage - Structural Adequacy.** Council stormwater pits which are being connected into shall be surveyed and confirmed to be capable as being structurally adequate for receiving the upstream connection from the development and satisfy durability requirements. If it is deemed appropriate to replace the pit, kerb inlet pits shall be cast in-situ and conforming to Council's standard drainage pit details.

A certificate from a suitably qualified Structural Engineer (registered on the NER of Engineers Australia), or equivalent, shall be submitted to the Principal Certifying Authority, prior to the commencement of any works, certifying compliance with this condition.

(Reason: to verify the structural integrity of the pit).

97. **Notice of Intention to Commence - Council Drainage Works.** Prior to commencement of the Council drainage works, Council's City Works Directorate shall be notified for written acceptance.

This Notice shall include the name of the Contractor who will be responsible for the construction works, and the name of the Supervising Engineer who will be responsible for providing the certifications required at the hold points during construction, and also obtain all Road Activity Permits required for the works.

(Reason: to ensure Council's City Works Directorate is notified about the intention of commencing drainage works).

98. **Notification to adjacent properties – Council Drainage Works.** The Applicant shall provide the adjoining owners and occupiers written notice of the proposed Council drainage works a minimum two weeks prior to commencement of construction. The notice is to include a contact person name and number should adjoining owners and occupiers have any enquiries in relation to the construction works.

All structures and surface areas affected by the drainage connection works must be reinstated at the completion of this activity, at no cost to the affected property owner.

(Reason: to ensure adjacent properties are notified about the intention of commencing drainage works).

99. **Property above/below Footpath Level.** Where the ground level adjacent the property alignment is above/below the established verge and footpath level, adequate measures are to be taken, either by means of constructing approved retaining structures or batters entirely on the subject property, to support the subject land/footpath and prevent harm to the public / occupants of the site due to the abrupt level differences.

(Reason: To preserve public safety and the support of property due to abrupt level differences between the site and public domain land.)

100. **Ground Anchors.** The installation of permanent ground anchors into public roadway is not permitted. The installation of temporary ground anchors may be considered subject to application for approval from Council's Public Works department, as per the provisions of Section 138 of the Roads Act. The application for consent must include detailed structural plans prepared by a chartered structural engineer, clearly nominating the number of proposed anchors, depth below existing ground level at the boundary alignment and the angle of installation. Approval is subject to the applicant paying all applicable fees in accordance with Council's Management Plan.

(Reason: To minimise the imposition of soil / rock anchors on the public domain.)

101. **Tree Retention.** As identified in the Arboricultural Impact Assessment (AIA) prepared by Redgum Horticultural dated 26/04/2021, the following 28 trees on adjoining sites are to be retained and protected: numbered: 1, 2, 4, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34 and 35.

(Reason: To ensure the health of existing trees retained by the development are maintained.)

102. **Tree Protection.** Tree Protection is to be installed before demolition and construction commences as indicated in the Arboricultural Impact Assessment (AIA) "Appendix F Tree Protection Zones" prepared by Redgum Horticultural dated 26/04/2021.

(Reason: To protect existing trees before any work on site commences.)

103. **Tree Protection Fencing.** All trees to be retained on site and on adjoining site are to have protective fencing and signage around TPZs and must be located in accordance with AS4970-2009: Protection of trees on development sites. In this regard, any fencing required to be constructed around the TPZ is to be in accordance with AS4687 Temporary fencing and hoardings.

(Reason: To protect existing trees before any work on site commences.)

104. **Tree Protection – no unauthorised removal.** This consent does not authorise the removal of trees unless specifically permitted by a condition of this consent or identified as approved for removal on the stamped plans.

(Reason: To ensure all existing trees to be retained in the development works are maintained.)

105. **Project Arborist.** A Project Arborist with minimum AQF level 5 qualifications is to be engaged to ensure adequate tree protection measures are put in place for all trees to be retained on adjoining allotments in accordance with AS4970-2009 Protection of trees on development sites. All trees are to be monitored to ensure adequate health throughout the construction period. Additionally, all work within the Tree Protection Zones is to be supervised by the Project Arborist throughout construction.

(Reason: To ensure tree protection measures and the nature of works are appropriate and not detrimental to the health of the trees on site.)

106. **Provision of Project Arborist details.** Council is to be notified, in writing, of the name, contact details and qualifications of the Project Arborist appointed to the site. Should these details change during the course of works, or the appointed Consultant Arborist alter, Council is to be notified, in writing, within seven working days.

(Reason: To ensure the Project Arborist can be readily contacted regarding the required tree protection measures.)

107. **Arboricultural Impact Assessment (AIA).** All items in the Root Investigation Analysis outlined for trees 1, 2 & 4, 11 & 12, 33 & 34 prepared by Redgum Horticultural dated 4/08/2022, are to be implemented.

(Reason: To ensure all tree protection measures are implemented prior to commencement of works.)

DURING CONSTRUCTION

Unless otherwise specified, the following conditions in this Part of the consent must be complied with at all times during the construction period. Where applicable, the requirements under previous Parts of the consent must be implemented and maintained at all times during the construction period.

108. **Critical stage inspections.** The person having the benefit of this consent is required to notify the Principal Certifying Authority during construction to ensure that the critical stage inspections are undertaken, as required under clause 61 of the *Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2001*.

(Reason: Statutory requirement).

109. **Noise from construction and demolition work.** All feasible and reasonable measures must be implemented to minimise the emission of noise from demolition and construction work.

(Reason: To protect the amenity of the neighbourhood).

110. **Noise management plan.** Where demolition or construction activities are likely to cause significant noise or vibration (e.g. jackhammering, rock breaking or impact piling) a noise management plan must be prepared by a suitably qualified acoustical consultant and be submitted to the Principal Certifying Authority before the work commences. The plan must be prepared in accordance with the Interim Construction Noise Guideline (DECC, 2009) and include:

- (a) Identification of nearby affected residences or other sensitive receivers.
- (b) An assessment of the expected noise impacts.
- (c) Details of the work practices required to minimise noise impacts.
- (d) Noise monitoring procedures.
- (e) Procedures for notifying nearby affected residents.
- (f) Complaints management procedures.

(Reason: To protect the amenity of the neighbourhood).

111. **Survey of footings/walls.** All footings and walls within 1 metre of a boundary must be set out by a registered surveyor. On commencement of brickwork or wall construction a survey and report must be prepared indicating the position of external walls in relation to the boundaries of the allotment.

(Reason: To ensure that the development is in accordance with the determination).

112. **Sediment/dust control.** No sediment, dust, soil or similar material shall leave the site during construction work.

(Reason: To protect the amenity of the area).

113. **Use of fill/excavated material.** Excavated material must not be reused on the property except as follows:
- (a) Fill is allowed under this consent;
 - (b) The material constitutes Virgin Excavated Natural Material as defined in the *Protection of the Environment Operations Act 1997*;
 - (c) the material is reused only to the extent that fill is allowed by the consent.

(Reason: To ensure fill is consistent with the consent).

114. **Construction materials.** All materials associated with construction must be retained within the site.

(Reason: To ensure the public domain is not affected during construction).

115. **Site Facilities**

The following facilities must be provided on the site:

- (a) toilet facilities in accordance with Safework NSW requirements, at a ratio of one toilet per every 20 employees, and
- (b) a garbage receptacle for food scraps and papers, with a tight fitting lid.

(Reason: Statutory requirement).

116. **Site maintenance**

The applicant must ensure that:

- (a) approved sediment and erosion control measures are installed and maintained during the construction period;
- (b) building materials and equipment are stored wholly within the work site unless an approval to store them elsewhere is held;
- (c) the site is clear of waste and debris at the completion of the works.

(Reason: To ensure the site is appropriately maintained during construction).

117. **Work within public road.** At all times work is being undertaken within a public road, adequate precautions shall be taken to warn, instruct and guide road users safely around the work site. Traffic control devices shall satisfy the minimum standards outlined in Australian Standard No. AS1742.3-1996 "Traffic Control Devices for Work on Roads".

(Reason: To ensure works do not disrupt pedestrians and vehicular traffic).

118. **Consent documents available on site.** At all times during the construction, a copy of the development consent and the approved stamped plans is to be kept on site. These documents are to be made available to any Council Officer as requested.

(Reason: To ensure Council Officers are able to access the consent during any site inspection).

119. **Hold Points during construction - Public Domain.** Council requires inspections to be undertaken by a Chartered Civil Engineer (registered on the NER of Engineers Australia), for the public domain, at the hold points shown below.

The Applicant shall submit to Council's City Works Directorate, certification from the Engineer, at each stage of the inspection listed below, within 24 hours following completion of the relevant stage/s. The certificates shall contain photographs of the works in progress and a commentary of the inspected works, including any deficiencies and rectifications that were undertaken.

- a) Prior to the commencement of construction and following the set-out on site of the position of the civil works to the levels shown on the approved civil drawings.
- b) Upon excavation, trimming and compaction to the subgrade level - to the line, grade, widths and depths, shown on the approved civil engineering drawings.
- c) Upon compaction of the applicable sub-base course.
- d) Upon compaction or construction of any base layers of pavement, prior to the construction of the final pavement surface (e.g. prior to laying any pavers or asphalt wearing course).
- e) Upon installation of any formwork and reinforcement for footpath concrete works.
- f) Final inspection - upon the practical completion of all civil works with all disturbed areas satisfactorily restored.

(Reason: Ensure compliance with relevant standards).

120. **Stormwater - Hold Points during construction – Council Drainage Works.** Council requires inspections to be undertaken by a suitably qualified Chartered Professional Civil Engineer (CPEng) or Registered Professional Civil Engineer (RPEng), or equivalent, for all Council stormwater drainage works.

The Applicant shall submit to the Principal Certifying Authority, certification from the Engineer, at each stage of the inspection listed below, stating all civil and structural construction works have been executed as detailed in the stamped approved plans, and in accordance with the relevant Australian Standards, City of Ryde standards and specifications within 24 hours following completion of the relevant stage/s. The certificates shall contain photographs of the works in progress and a commentary of the inspected works, including any deficiencies and rectifications that were undertaken:

- a) Upon installation of pipes and other drainage structures prior to backfilling.
- b) Upon backfilling of excavated areas and prior to the construction of the final pavement surface.
- c) Upon connection to Council's existing kerb inlet pit.

(Reason: to ensure construction works satisfy Council's DCP and Australian Standards requirements).

121. **Implementation of the Construction Traffic and Pedestrian Management Plan.** All construction works including demolition are to be undertaken in accordance with the approved Construction Traffic and Pedestrian Management Plan (CTPMP). All controls in the CTPMP must be maintained at all times and all traffic management control must be undertaken by personnel having appropriate SafeWork NSW accreditation. Should the implementation or effectiveness of the CTPMP be impacted by surrounding major development not encompassed in the approved CTPMP, the CTPMP measures and controls are to be revised accordingly and submitted to Council.

(Reason: This condition is to ensure that the measures/protocols stated in the approved CTPMP are carried out by the builder during construction).

122. **Tip dockets for waste removal.** Tip Dockets identifying the type and quantity of waste disposed/recycled during construction are to be kept in accordance with the Site Waste Minimisation & Management Plan for spot inspections.

(Reason: To protect the environment).

123. **Management of the site to avoid illegal dumping.** The area surrounding the construction site must be maintained to reduce the incidence of illegal dumping and management of litter from the site and workers associated with the site must be undertaken.
- (Reason: To protect the environment).
124. **Stormwater Management - Construction.** The stormwater drainage system on the site must be constructed in accordance with the Construction Certificate version of the Stormwater Management Plan by Webber Design, Project No.: WD20106, Dated 22 August 2022 submitted in compliance to the condition labelled "Stormwater Management." and the requirements of Council in relation to the connection to the public drainage system.
- (Reason: To ensure the stormwater system is constructed as approved)
125. **Erosion and Sediment Control Plan - Implementation.** The applicant shall install erosion and sediment control measures in accordance with the Construction Certificate approved Soil Erosion and Sediment Control (ESCP) plan at the commencement of works on the site. Erosion control management procedures in accordance with the manual "Managing Urban Stormwater: Soils and Construction" by the NSW Department – Office of Environment and Heritage, must be practiced at all times throughout the construction.
- (Reason: To prevent soil erosion and the discharge of sediment over the land.)
126. **Geotechnical Monitoring Program - Implementation.** The construction and excavation works are to be undertaken in accordance with the Geotechnical Report and Monitoring Program (GMP) submitted with the Construction Certificate. All recommendations of the Geotechnical Engineer and GMP are to be carried out during the course of the excavation. The applicant must give at least seven (7) days notice to the owner and occupiers of the adjoining allotments before excavation works commence.
- (Reason: To ensure that the excavation works are undertaken appropriately throughout the period of construction.)
127. **Site Dewatering Plan – Implementation.** The Site Dewatering Plan (SDP) on the site must be constructed in accordance with the Construction Certificate version of the SDP submitted in compliance to the condition labelled "Site Dewatering Plan.", the requirements of Council in regards to disposal of water to the public drainage infrastructure and the requirements of any Dewatering License issued under NSW Water Act 1912 in association with the works. A copy of the SDP is to be kept on site at all times whilst dewatering operations are carried out.
- (Reason: To ensure that site dewatering is undertaken appropriately throughout the period of construction.)
128. **Excavation for services within Tree Protection Zone (TPZ).** Any excavation for services or grading/re-grading within the identified TPZs of trees to be retained shall be carried out by hand using manual hand tools. Roots greater than 25mm are not to be damaged or severed without the prior written approval of the Project Arborist.
- (Reason: To ensure any excavation works are not detrimental to the health of the tree.)
129. **Tree Removal.** As identified in the Arboricultural Impact Assessment (AIA) prepared by Redgum Horticultural dated 26/04/2021, the following trees on site are to be removed: 3, 5, 6, 7, 8, 9, 10, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51 and 52.
- (Reason: To ensure only the trees approved for removal are in fact removed)
130. **Project Arborist Inspections.** The Project Arborist is to inspect and document with Certificates of Compliance to the certifying authority as stipulated in SECTION 5 MONITORING AND CERTIFICATION of AS4970-2009.

PROJECT PHASE	ACTIVITIES	PROJECT ARBORIST to
Initial Site Preparation	Establish/delineate TPZ Install protective measures and undertake soil rehabilitation for all trees to be retained.	Project Arborist to mark Tree Protection Zones and install fences, mulch, irrigation and signage Issue a Certification of Compliance of tree protection measures being in place and soil rehabilitation undertaken
Construction work	Liaison with site manager, compliance and any deviation from approved plan	Maintain or amend protective measures Supervision and monitoring formal notification of any deviation from approved tree protection plan
Stormwater connection installation through TPZ, Implement hard and soft landscape works	Supervise Installation of pipes within tree TPZ	Excavate trench through TPZ under Arborist supervision, install pipework, remove selected protective measures as necessary and perform remedial tree works Issue a Certificate of Compliance
Practical Completion	Tree vigour and structure Assessment and undertake soil rehabilitation for all retained trees	Remove all remaining tree Protection measures Certification of tree protection and soil rehabilitation for Protected Trees
Defects liability / maintenance period	Tree vigour and structure	Undertake any required remedial tree works Certification of tree protection if necessary

(Reason: To ensure the timing and frequency of inspections by the Project Arborist is appropriate to maintain the health of existing trees to be retained throughout the works.)

131. **Tree works – Australian Standards.** All tree work must be carried out by a qualified and experienced Arborist with a minimum of AQF level 3 in Arboriculture with NSW WorkCover Code of Practice for Amenity Tree Industry (1998) and AS4373 Pruning of amenity trees (2007).

(Reason: To ensure that any tree work is carried out by a qualified Arborist)

132. **Requirement to notify about new contamination evidence.** Any new information which comes to light during remediation, demolition or construction works which has the potential to alter previous conclusions about site contamination shall be notified to the Council and the principal certifying authority immediately.

(Reason: To ensure contaminated materials are appropriately reported and managed).

133. **Asbestos–handled & disposed of by licensed facility.** All friable and non-friable asbestos-containing waste material on-site shall be handled and disposed off-site at an EPA licensed waste facility by an EPA licensed contractor in accordance with the requirements of the Protection of the Environment Operations (Waste) Regulation 2014 and the Waste Classification Guidelines – Part 1 Classifying Waste (EPA 2014) and any other regulatory instrument as amended.

(Reason: To protect the environment).

134. **Waste data maintained.** A Waste Data file is to be maintained, recording building/demolition contractor's details and waste disposal receipts/dockets for any demolition or construction wastes from the site. These records must be retained and made available to Council on request.

(Reason: To protect the environment).

135. **Storage and removal of wastes.** All demolition and construction wastes must be stored in an environmentally acceptable manner and be removed from the site at frequent intervals.

(Reason: To protect the environment).

136. **Polluted water excavation - analysis before discharge.** Site water discharged must not exceed suspended solid concentrations of 50 parts per million and must be analysed for pH and any contaminants of concern identified during the preliminary or detailed site investigation, prior to discharge to the stormwater system. The analytical results must comply with relevant Environmental Protection Authority and Australian & New Zealand Guidelines for Fresh & Marine Water Quality Other options for the disposal of excavation pump-out water include disposal to sewer with prior approval from Sydney Water, or off-site disposal by a liquid waste transporter for treatment/disposal to an appropriate waste treatment/processing facility.

(Reason: To protect the environment).

137. **De-watering of Excavated Sites.** Any site excavation areas must always be kept free of accumulated water. Water that accumulates within an excavation must be removed and disposed of in a manner that does not result in: the pollution of waters, nuisance to neighbouring properties, or damage/potential damage to neighbouring land and/or property. A de-watering plan is required to be included and submitted to Council for review prior to issue of a Construction Certificate.

(Reason: To protect the environment).

138. **Soil and Water Management – Stockpiles.** Stockpiles of topsoil, sand, aggregate, soil or other material are not to be located on any drainage line or easement, natural watercourse, footpath or roadway and shall be protected with adequate sediment controls.

(Reason: To protect the environment).

139. **Imported fill – validated.** All imported fill must be validated in accordance with the Contaminated Sites Sampling Design Guidelines (EPA, 1995) by an experienced environmental consultant, and a copy of the validation report must be submitted to the Principal Certifying Authority (and Council, if Council is not the PCA) before the fill is used.

(Reason: To protect the environment).

140. **Duty to Notify Pollution Incidents.** Council being the 'appropriate regulatory authority' must be notified immediately of any pollution incident where material harm to the environment is caused or threatened. This duty extends to persons carrying on an activity, employers and employees, contractors and the occupier of the premises where the incident occurs.

(Reason: To protect the environment).

PRIOR TO OCCUPATION CERTIFICATE

An Occupation Certificate must be obtained from a Principal Certifying Authority prior to commencement of occupation of any part of the development, or prior to the commencement of a change of use of a building.

Prior to issue, the Principal Certifying Authority must ensure that all works are completed in compliance with the approved construction certificate plans and all conditions of this Development Consent.

Unless an alternative approval authority is specified (eg Council or government agency), the Principal Certifying Authority is responsible for determining compliance with conditions in this Part of the consent. Details to demonstrate compliance with all conditions, including plans, documentation, or other written evidence must be submitted to the Principal Certifying Authority.

141. **BASIX.** The submission of documentary evidence of compliance with all commitments listed in BASIX Certificate(s) numbered 1198548M_02, dated 25 April 2022.

(Reason: Statutory requirement).

142. **Landscaping.** All landscaping works approved by condition 1 are to be completed prior to the issue of the any **Occupation Certificate**.

(Reason: To ensure the development is in accordance with the development consent).

143. **Public Art.** The artwork in the approved Public Art Plan shall be installed prior to the issue of any Occupation Certificate and maintained for the life of the development.

(Reason: To ensure integrated artwork is provided and maintained.)

144. **Privacy Screens.** The privacy screens approved on the plans shall be installed and maintained for the life of the development.

(Reason: To ensure the privacy of occupants and neighbouring properties is maintained.)

145. **Fire safety matters.** At the completion of all works, a Fire Safety Certificate must be prepared, which references all the Essential Fire Safety Measures applicable and the relative standards of Performance (as per Schedule of Fire Safety Measures). This certificate must be prominently displayed in the building and copies must be sent to Council and the Fire and Rescue NSW.

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

Each year the Owners must send to the Council and the Fire and Rescue NSW an annual Fire Safety Statement which confirms that all the Essential Fire Safety Measures continue to perform to the original design standard.

(Reason: Statutory requirement).

146. **Residential Apartment Noise Attenuation.** A AAAC 5 Star Certificate must be submitted by a qualified member of the Association of Australasian Acoustical Consultants (AAAC) demonstrating that the construction of the building including internal walls and floors ensures that all sound producing plant, equipment, machinery, mechanical ventilation system or refrigeration systems as well as noise generated between residential units has sufficient acoustical attenuation. Details of compliance must be submitted to the Principal Certifying Authority before the issue of any **Occupation Certificate**.

(Reason: To ensure the development meets the required noise attenuation measures).

147. **Sydney Water – Section 73 Compliance Certificate.** A compliance certificate must be obtained from Sydney Water, under Section 73 of the Sydney Water Act 1994. Sydney Water will determine the availability of water and sewer services, which may require extension, adjustment or connection to Sydney Water mains. A Section 73 Compliance Certificate must be completed before the issue of any Occupation Certificate. Sydney Water will assess the development and if required will issue a Notice of Requirements letter detailing all requirements that must be met. Applications can be made either directly to Sydney Water or through a Sydney Water accredited Water Servicing Coordinator.

Go to www.sydneywater.com.au/section73 or call 1300 082 746 to learn more about applying through an authorised WSC or Sydney Water.

(Reason: Statutory requirement).

148. **Post-construction dilapidation report.** The submission of a post-construction dilapidation report which clearly details the final condition of all property, infrastructure, natural and man-made features that were recorded in the pre-commencement dilapidation report. A copy of the report must be provided to Council, any other owners of public infrastructure and the owners of the affected adjoining and private properties, prior to the issue of any **Occupation Certificate**.

(Reason: To provide a record of any damage to adjoining properties post construction).

149. **Letterboxes and street/house numbering display.** All letterboxes are to be designed and constructed in accordance with Australia Post requirements and the house/unit numbering displayed shall be in accordance with the official property addressing allocated by Council's Land Information Section. The display of the street address shall be of a sufficient size and clarity to be easily visible from the street. Where a development contains multiple properties, signage is required to be clearly displayed on all unit door entrances. Directional signage is to be erected on site at driveway entry points and on buildings. Unit numbering signage is also required on stairway access doors and lobby entry doors. It is essential that all numbering signage throughout a development is clear to assist emergency service providers locate a destination with ease and speed, in the event of an emergency.

(Reason: To assist in way finding).

150. **Protection of Parking Sensors.** In the event that road works are undertaken in the vicinity of underground street parking sensors, the applicant is to remove and replace the affected parking sensors under the road surface. These works are to be undertaken at the applicant's cost. The re-installed parking sensors must be fully operational, and this must be formally verified by Council's Manager Health, Building and Regulatory Services prior to the issue of an Occupation Certificate.

(Reason: To protect and re-install Council parking sensors).

151. **Vehicle Footpath Crossing and Gutter Crossover – Construction.** The proposed vehicle footpath crossing and gutter crossover shall be constructed prior to the issue of any Occupation Certificate at no cost to Council. Works may include the removal of any redundant vehicle footpath crossing and gutter crossover and reinstatement of kerb and gutter and restoration of road pavement.

Any adjustment or relocation of underground utilities as a result of the driveway construction must be carried out in accordance with the requirements of the utility authority. Minimum cover requirements of utility authorities must be maintained.

(Reason: Improved access and public amenity).

152. **Compliance Certificate – Vehicle Footpath Crossing and Gutter Crossover.** A Compliance Certificate shall be obtained from Council's City Works Directorate and a copy

submitted to the Principal Certifier prior to the issue of any Occupation Certificate, confirming that the vehicle footpath crossing and gutter crossover have been constructed in accordance with the Council's standards and requirements. Fees are payable for the issue of the Compliance Certificate, in accordance with Council's Schedule of Fees and Charges.

(Reason: Ensure Compliance).

153. **Public Domain Improvements and Infrastructure Works – Completion.** All public domain improvements and infrastructure works shall be completed to Council's satisfaction, in accordance with the approved public domain plans and at no cost to the Council, prior to the issue of any Occupation Certificate.

(Reason: Ensure Compliance).

154. **Restoration – Supervising Engineer's Certificate.** Prior to the issue of any Occupation Certificate, the Applicant shall submit to Council a certificate from the Supervising Engineer confirming that the final restoration of disturbed road and footway areas for the purpose of connection to public utilities, including repairs of damaged infrastructure and replacement of any redundant vehicular crossings as a result of the construction works associated with this development site, have been completed in accordance with the Council's standards and specifications, and DCP2014 Part 8.5 *Public Civil Works*, or the Roads and Maritime Services' standards and specifications, where applicable.

(Reason: Ensure public safety and protection of infrastructure).

155. **Electricity accounts for new street lighting.** Prior to the issue of any Occupation Certificate, the Applicant shall liaise with Council's Public Domain Development Section regarding the setting up of the electricity account/s in order to energise the newly installed street lighting.

(Reason: Public amenity and safety).

156. **Compliance Certificates – Street Lighting.** Prior to the issue of any Occupation Certificate, the Applicant shall submit to Council, a *Certificate of Compliance - Electrical Work (CCEW)* from the Electrical Contractor, and certification from a qualified Electrical Engineering consultant confirming that the street lighting in the public domain has been constructed in accordance with the Council approved drawings and City of Ryde standards and specifications.

(Reason: Ensure Compliance).

157. **Compliance Certificate – External Landscaping Works.** Prior to the issue of any Occupation Certificate, the Applicant shall submit to Council, certification from a qualified Landscape Architect confirming that the public domain landscaping works have been constructed in accordance with the Council approved drawings and City of Ryde standards and specifications.

(Reason: Ensure Compliance).

158. **Public Domain Works-as-Executed Plans.** To ensure the public infrastructure works are completed in accordance with the approved plans and specifications, Works-as-Executed (WAE) Plans shall be submitted to Council for review and approval. The WAE Plans shall be prepared on a copy of the approved plans and shall be certified by a Registered Surveyor. All departures from the Council approved details shall be marked in red with proper notations. Any rectifications required by Council shall be completed by the Developer prior to the issue of any Occupation Certificate.

In addition to the WAE Plans, a list of all infrastructure assets (new and improved) that are to be handed over to Council shall be submitted in a form advised by Council. The list shall

include all the relevant quantities in order to facilitate the registration of the assets in Council's Asset Registers.

(Reason: Record of Completed Works).

159. **Registered Surveyor Final Certificate.** Upon completion of all construction works, and before the issue of any Occupation Certificate, a Certification from a Registered Surveyor must be submitted to Council, stating that all works (above and below ground) are contained within the site's land boundary.

(Reason: Ensure Compliance and no encroachments).

160. **Supervising Engineer Final Certificate.** Prior to the issue of any Occupation Certificate, the Applicant shall submit to Council, a Final Certificate from the Supervising Engineer confirming that the public domain works have been constructed in accordance with the Council approved drawings and City of Ryde standards and specifications. The certificate shall include commentary to support any variations from the approved drawings.

(Reason: Ensure Compliance).

161. **Post-Construction Dilapidation Report.** To ensure Council's infrastructures are adequately protected a post-construction dilapidation report on the existing public infrastructure in the vicinity of the completed development and along the travel routes of all construction vehicles, up to 100m either side of the development site, is to be submitted to Council. The report shall detail, but not be limited to, the location, description and photographic record of any observable defects to the following infrastructure where applicable.

- (a) Road pavement,
- (b) Kerb and gutter,
- (c) Footpath,
- (d) Drainage pits,
- (e) Traffic signs, and
- (f) Any other relevant infrastructure.

The report shall include summary statement/s comparing the pre and post construction conditions of the public infrastructure. The report is to be dated and submitted to, and accepted by Council's City Works Directorate, prior to issue of the Occupation Certificate. The report shall be used by Council to compare with the pre-construction dilapidation report, and to assess whether restoration works will be required prior to the issue of the Compliance Certificate for External Works and Public Infrastructure Restoration.

All fees and charges associated with the review of the report shall be in accordance with Council's Schedule of Fees and Charges, and shall be paid at the time that the Dilapidation Report is submitted.

(Reason: Protection of public assets).

162. **Decommissioning of Ground Anchors.** Prior to the issue of any Occupation Certificate, the Applicant shall provide Council a certificate from a suitably qualified Structural or Geotechnical Engineer confirming that all temporary soil/ground anchors installed into the public road reserve, have been decommissioned and are not transferring any structural loads into the road reserve stratum.

(Reason: Ensure compliance for protection of public assets).

163. **Final Inspection – Assets Handover.** For the purpose of the handover of the public infrastructure assets to Council, a final inspection shall be conducted in conjunction with Council's Engineer from City Works Directorate following the completion of the external works. Defects found at such inspection shall be rectified by the Applicant prior to Council

issuing the Compliance Certificate for the External Works. Additional inspections, if required, shall be subject to fees payable in accordance with Council's Schedule of Fees & Charges at the time. A minimum 48 hours' notice will be required when booking for the final inspection.

(Reason: Ensure Compliance).

164. **Compliance Certificate – External Works and Public Infrastructure Restoration.** Prior to the issue of any Occupation Certificate, a compliance certificate shall be obtained from Council's City Works Directorate confirming that all works in the road reserve including all public domain improvement works and restoration of infrastructure assets that have dilapidated as a result of the development works, have been completed to Council's satisfaction and in accordance with the Council approved drawings. The applicant shall be liable for the payment of the fee associated with the issuing of this Certificate in accordance with Council's Schedule of Fees and Charges at the time of issue of the Certificate.

(Reason: Ensure Compliance).

165. **Engineering Condition – Public Domain Works.** All outstanding civil works associated with road improvement works, kerb and gutter, footpath, vehicular crossing and stormwater drainage work for this development site shall be completed in accordance with Council's specifications and to the satisfaction of Council prior to the issue of the strata plans/subdivision certificate.

(Reason: Ensure compliance).

166. **Public Domain Design and Construction Staging.** The Applicant shall be responsible for the design and construction of all public domain improvement and infrastructure works for each stage. All engineering civil works shall be carried out in accordance with the requirements as outlined within Council's DCP 2014 Part 8.5 *Public Civil Works*, relevant Development Control Plans and in accordance with Council's specifications and to the satisfaction of Council. Council has full control to implement and impose any necessary condition to coordinate staging of the public domain work through the assessment phase of the development applications. All design and construction of public domain and utilities services as a consequence of the development and associated construction works shall be at the full cost to the applicant.

(Reason: Public amenity and safety).

167. **Positive Covenant - Overland Flow.** A positive covenant shall be created for the existing overland flow path through the subject site, under Section 88E of the Conveyancing Act 1919. All associated costs shall be borne by the applicant.

This is to place a restriction on the title that the overland flow path and flood storage areas are maintained and kept free of debris/weed to allow unobstructed passage of overland flow of water through the site and underneath the residence. The new buildings shall not have the subfloor area enclosed or utilised for storage.

The wording of the Instrument shall be submitted to, and approved by Council's City Works Directorate prior to lodgement at NSW Land Registry Services. The Instrument shall be registered and a registered copy of the document shall be submitted to and approved by the consent authority prior to the issue of an Occupation Certificate/use of the building.

(Reason: To ensure the overland flow and flood storage areas are maintained and unobstructed).

168. **Flooding – Engineering Compliance Certificate.** A certificate from a suitably qualified Chartered Professional Civil Engineer (CPEng) or Registered Professional Civil Engineer (RPEng), or equivalent, shall be provided to the Principal Certifying Authority, prior to the

issue of the Occupation Certificate, confirming that all requirements of condition “*Flooding - Flood and Overland Flow Protection*” have been satisfied.

The qualified and practising Chartered Professional Civil Engineer (CPEng) or Registered Professional Civil Engineer (RPEng) shall have experience in the area respective of the certification unless stated otherwise.

(Reason: To ensure that all flood and overland flow protection requirements are satisfied).

169. **Stormwater – Council Drainage Works – Works-as-Executed Plans.** To ensure the public infrastructure works are completed in accordance with the approved plans and specifications, and that the assets to be handed over to Council are accounted for inclusion in Council's Assets Register, Works-as-Executed Plans (in both hard and soft copies - AutoCAD, CivilCAD, Civil 3D, 12D-or any other commercially used program), certified by a Registered Surveyor shall be submitted to, and accepted by Council in writing, with any rectifications required by Council to be completed by the Developer prior to the issue of any Occupation Certificate.

The Works-as-Executed Plans are to note all departures clearly in red, on a copy of the approved Construction Certificate drawings, and certification from a suitably qualified Civil Engineer shall be submitted to support all variations from the approved plans.

(Reason: To ensure the public infrastructure works are completed in accordance with the approved plans and specifications).

170. **Stormwater - Post-Construction CCTV Report.** To ensure Council's stormwater infrastructures are adequately protected, there are no damages and no protruding pipe inside Council's pipeline due to proposed construction activities and property drainage connection, a post-construction CCTV report on the Council's stormwater pipeline through the proposed development site and the existing kerb inlet pit in front of the property is to be submitted to Council.

An electronic closed circuit television report (track mounted CCTV camera footage) prepared by an accredited operator (with a certificate of attainment in NWP331A Perform Conduit Condition Evaluation) that assesses the condition of the existing drainage line adjacent to the site is required. The report is to be dated and submitted to, and accepted by Council's City Works Directorate, prior to issue of the Occupation Certificate.

The report shall be used by Council to compare with the pre-construction CCTV footage report, and to assess whether any rectification works will be required to Council's satisfaction at no cost to Council. The applicant shall obtain written approval from a Council Engineer prior to the issue of the Occupation Certificate.

Note: The applicant shall contact Council's Assets and Integration Section to obtain a map of Council's existing stormwater network in the vicinity prior to conducting the CCTV survey.

All fees and charges associated with the review of the report shall be in accordance with Council's Schedule of Fees and Charges, and shall be paid at the time that the report is submitted.

(Reason: to verify the post-construction condition of Council's drainage assets).

171. **Final Inspection – Council Drainage Assets Handover.** For the purpose of the handover of the trunk drainage assets to Council, a final inspection shall be conducted in conjunction with Council's Engineer from City Works Directorate following the completion of the {Council Drainage Works}. Defects found at such inspection shall be rectified by the Applicant prior to Council issuing the Compliance Certificate for the trunk drainage Works.

Note: An inspection fee is applicable for each visit, and at least 48 hours' notice will be required for the inspections. Please contact Council's Customer Service Section on 9952 8222 to book an inspection subject to fees payable in accordance with Council's Schedule of Fees & Charges at the time.

Additional inspections, if required, shall be subject to fees payable in accordance with Council's Schedule of Fees & Charges at the time.

(Reason: to verify the new drainage asset/s have been built as per Council's standards).

172. **Compliance Certificate – Council Drainage Works.** Prior to the issue of any Occupation Certificate, a compliance certificate shall be obtained from Council's City Works Directorate confirming that all Council drainage and associated restoration works have been completed to Council's satisfaction and in accordance with the Council approved drawings.

Note: The applicant shall be liable for the payment of the fee associated with the issuing of this Certificate in accordance with Council's Schedule of Fees and Charges at the time of issue of the Certificate.

(Reason: to ensure drainage and its consequent restoration works have been conducted as per Australian and Council's standards).

173. **Restoration – Supervising Engineer's Certificate -** Prior to the issue of any Occupation Certificate, the Applicant shall submit to Council a certificate from the Supervising Engineer confirming that the final restoration of disturbed road and footway areas for the purpose of connection to public utilities, including repairs of damaged infrastructure and replacement of any redundant vehicular crossings as a result of the construction works associated with this development site, have been completed in accordance with the Council's standards and specifications, and DCP (2014) Part 8.5 Public Civil Works, or the Roads and Maritime Services' standards and specifications, where applicable.

(Reason: to ensure road and footpath restoration works have been completed as per Australian and Council's standards).

174. **Signage and Linemarking – External.** Any alterations to the public domain that results in a change to the parking and traffic conditions requires a signage and linemarking plan prepared by a suitably qualified traffic engineering consultant to be submitted to Council for endorsement by Ryde Traffic Committee and subsequent approval by Council, prior to the issue of any Occupation Certificate.

Changes to the existing parking restrictions along both sides of Coulter Street are likely to be required when kerbside garbage collection is being undertaken to assist with the safety and efficiency of traffic movements to, from and within Coulter Street. These parking changes are to be shown within the signage and linemarking plan.

Note: The applicant is advised that Ryde Traffic Committee generally meets once a month. As such, adequate time should be allowed for the review and approval process.

All fees and charges associated with the review of this plan are to be paid in accordance with Council's latest Schedule of Fees and Charges.

(Reason: This condition is to ensure that changes to the traffic and parking conditions within the surrounding public road network as a consequence of the development is appropriately managed to minimise the impact to public safety and amenity.)

175. **Signage and Linemarking (External) – Implementation.** The applicant is to install all signage and linemarking, as per the plan approved by Council. These works are to be undertaken prior to the issue of any Occupation Certificate.

(Reason: This condition is to ensure that the works outlined in the approved signage and linemarking plan are installed, prior to the development being occupied).

176. **Agreement with a car share provider.** Prior to the issue of any Occupation Certificate, documentary evidence is to be provided to Council that an agreement with a car share provider has been entered into for the 2 car share spaces on site. The agreement must ensure appropriate insurance and vehicle maintenance is in place including public liability.

(Reason: To ensure the effective operation of the car share spaces).

177. **Framework Travel Plan.** A finalised Framework Travel Plan (FTP) is to be submitted to Council's Environment Department for review and approval prior to the issue of any Occupation Certificate. The FTP must:

- (i) Adopt strategies and procedures to meet a 50% public transport/50% private transport target for the development for journey-to-work trips, to minimise drive-alone vehicle trips and to encourage transport choice to and within the Macquarie Park Corridor.
- (ii) Demonstrate how on-site parking provision and built form design will contribute to the FTP and assist in meeting the 50% public transport/50% private transport target for the development for the journey-to-work.
- (iii) Demonstrate infrastructure connections to the nearby footpath, bicycle and public transport networks including through-site links where required.
- (iv) Provide, to Council satisfaction, supportive infrastructure for:
 - Public transport passengers (bus shelters and passenger waiting areas) to be provided where a new public bus stop or service is required to service the additional demand from the development or meet relevant mode share targets for the development.
 - Taxi drop-off areas or parking (as appropriate) and carpooling and car share dedicated parking in publicly accessible locations, within the development site. The number of dedicated parking spaces provided must support relevant mode share targets for the development.
- (v) Walking and cycling (lockers and end-of-trip facilities).

(Reason: This condition is designed to assist in reducing future traffic congestion and promote alternative transport options in Macquarie Park).

178. **Loading Dock Management Plan.** An updated Loading Dock Management Plan shall be prepared by the applicant and submitted to and approved by Council's Transport Department prior to the issue of any Occupation Certificate. The plan must specify that the vehicles permitted to access the loading dock shall be no longer than 10.8m in length.

The Plan will need to demonstrate how the internal loading dock will be managed to ensure servicing arrangements including waste collection will be wholly accommodated within the site without interfering with the safety of all road users and the efficiency of traffic movements on the public road (including verge). Vehicle queuing on any public road is not permitted.

All fees and charges associated with the review of this plan are to be paid in accordance with Council's latest Schedule of Fees and Charges.

(Reason: This condition is intended to assist with minimising the impact of site servicing activities primarily associated with deliveries and refuse collection on the surrounding public roads).

179. **Inspection and Approval of Waste Arrangements.** An authorised Council waste officer is to inspect the development to ensure that the development can be accessed and serviced by the nominated waste collection vehicle in accordance with the Waste Management Plan providing safe easy access to service the waste containers. Approval must be provided by City of Ryde Council prior to the issue of the Occupation Certificate.

(Reason: To ensure the waste arrangements are provided in accordance with the Waste Management Plan).

180. **Waste collection Services.** Suitable arrangements must be made with the City of Ryde Council for the provision of garbage services to the premises prior to the issue of any Occupation Certificate

(Reason: To ensure the site is serviced by waste collection).

181. **Positive Covenant - Onsite Waste Collection.** A Positive Covenant must be created on the property title(s) pursuant to the relevant section of the *Conveyancing Act 1919*, ensuring that future owners provide and maintain the access driveway and loading bay accommodating waste collection services undertaken by Council. The terms of the instrument are to be generally in accordance with Council's current standard terms (available from Council) and any amendments necessary drafted in accordance with the City of Ryde DCP 2014 - Part 8.4 (*Title Encumbrances*), to Council's satisfaction. The drafted instrument must be accompanied by a Works-As-Executed plan of the service area ensuring there is adequate swept path and height clearances so as to accommodate Council waste vehicles. A swept path analysis may also be required to clarify this. The instrument and works-as-executed plans are to be submitted to Council with a completed "*Application Form for Endorsement of Title Encumbrances*" (available from Council's website) for review and the covenant must be registered on the title prior to the release of any Occupation Certificate for the development works.

(Reason: To ensure owners maintain responsibility for waste collection services).

182. **Waste Servicing Room.** Where there is a lockable door to access a bin room or hardwaste storage room, the universal Council key should be installed so the contractor can access the room for servicing bins or collect the household cleanup items.

(Reason: To ensure waste rooms can be accessed in a secure manner).

183. **Stormwater Management - Work-as-Executed Plan.** A Work-as-Executed plan (WAE) of the as constructed Stormwater Management System must be submitted with the application for an Occupation Certificate. The WAE must be prepared and certified (signed and dated) by a Registered Surveyor and is to clearly show the constructed stormwater drainage system (including any onsite detention, pump/ sump, charged/ siphonic and onsite disposal/ absorption system) and finished surface levels which convey stormwater runoff.
(Reason: To clarify the configuration of the completed stormwater management system.)

184. **Disused Gutter Crossing.** All disused gutter and footpath crossings shall be removed and the kerb and footpath reinstated to the satisfaction of Council.

(Reason: To maximise onstreet parking capacity and avoid confusion relating to the enforcement of parking restrictions.)

185. **Stormwater Management – Positive Covenant(s).** A Positive Covenant must be created on the property title(s) pursuant to the relevant section of the *Conveyancing Act (1919)*, providing for the ongoing maintenance of the onsite detention, pump/ sump components incorporated in the approved Stormwater Management system. The terms of the instrument are to be in accordance with the Council's standard for the relevant systems and are to be to the satisfaction of Council. To assure Council the construction of the stormwater management system has been completed, stormwater Works-As-Executed plans and certification of the system are to be submitted to Council with a completed "*Application Form for Endorsement of Title Encumbrances*" (available from Council's website). The positive covenant must be registered on the title prior to the release of any Occupation Certificate for development works for which the system(s) serve.

(Reason: This is to ensure that the drainage system will be maintained and operate as approved throughout the life of the development, by the owner of the site(s).)

186. **Drainage System Maintenance Plan.** A drainage system maintenance plan (DSMP) must be prepared for implementation for the ongoing life of the development.

The DSMP must contain the following:

- a) All matters listed in Section 1.4.9 of the DCP Part 8.2 (Stormwater and Floodplain Management – Technical Manual).
- b) The DSMP is to incorporate a master schedule and plan identifying the location of all stormwater components crucial to the efficient operation of the trunk drainage system on the development lot. This is to include (but not be limited to) pump/sump systems, WSUD components and all onsite detention systems. The master plan is also to contain the maintenance schedule for each component.
- c) The DSMP is also to include safe work method statements relating to access and maintenance of each component in the maintenance schedule.
- d) Signage is to be placed in vicinity of each component, identifying the component to as it is referred in the DSMP (e.g. OSD – 1), the reference to the maintenance work method statement and maintenance routine schedule.
- e) Designate areas inside the property in which the maintenance operation is to be undertaken for each component. Maintenance from the road reserve or public domain is not accepted. Areas are to be demarcated if required.
- f) Locate a storage area for maintenance components / tools to be stored on site. The location is to be recorded in the DSMP.

The DSMP is to be prepared by a suitably qualified and practising drainage engineer in co-operation with a workplace safety officer (or similar qualified personal) and all signage / linemarkings are to be implemented prior to the issue of any Occupation Certificate.

(Reason: To ensure the approved stormwater components such as onsite detention system, pumps and WSUD measures, function as designed for the ongoing life of the development)

187. **Restriction as to User - Floodway.** A restriction as to user is to be placed on the property title to prevent any works which would result in the alteration of the ground surface level or impose on overland flow due to stormwater runoff in the 100ARI, such to adversely impact flood protection of the approved dwelling or have an adverse impact on neighbouring properties. The terms of the restriction shall be generally in accordance with Council's current standard terms for provision for overland flow and to the satisfaction of Council. To assure Council the completed development works are consistent with the approved development and associated flood conditions, Works-As-Executed plans and/ or engineering certification related to any flood mitigation measures are to be submitted to Council with a completed "Application Form for Endorsement of Title Encumbrances" (available from Council's website). The covenant must be registered on the title prior to the release of any Occupation Certificate for the development works.

(Reason: To ensure that the site topography and any flood mitigation measures are maintained for the ongoing life of the development)

188. **Engineering Compliance Certificates.** To ensure that all engineering facets of the development have been designed and constructed to the appropriate standards, Compliance Certificates must be obtained for the following items and are to be submitted to the Accredited Certifier prior to the release of any Occupation Certificate. All certification must be issued by a qualified and practising civil engineer having experience in the area respective of the certification unless stated otherwise.
- a) Confirming that all components of the parking areas contained inside the site comply with the relevant components of AS 2890 and Council's DCP 2014 Part 9.3 (Parking Controls).
 - b) Certification from an Engineer specialising in Flood and Overland Flow analysis that the finished surface levels and the habitable floor levels have been constructed in accordance with this development consent, that the overland flow path has been maintained as designed and that the requirements of the condition "*Flood and Overland Flow Protection*" have been satisfied.

- c) Confirming that the Stormwater Management system (including any constructed ancillary components such as onsite detention) servicing the development complies with Council's DCP 2014 Part 8.2 (Stormwater and Floodplain Management) and associated annexures, and has been constructed to function in accordance with all conditions of this consent relating to the discharge of stormwater from the site.
- d) Confirming that after completion of all construction work and landscaping, all areas adjacent the site, the site drainage system (including any on-site detention system), and the trunk drainage system immediately downstream of the subject site (next pit), have been cleaned of all sand, silt, old formwork, and other debris.
- e) Confirming that the connection of the site drainage system to the trunk drainage system complies with Section 4.7 of AS 3500.3 - 2003 (National Plumbing and Drainage Code), the relevant sections of the Council's DCP 2014 Part 8.2 (Stormwater and Floodplain Management) and associated annexures and any requirements of Council pending on site conditions.
- f) Confirming that erosion and sediment control measures were implemented during the course of construction and were in accordance with the manual "*Managing Urban Stormwater: Soils and Construction*" by the NSW Department – Office of Environment and Heritage and Council's DCP 2014 Part 8.1 (Construction Activities).
- g) Certification from a suitably qualified structural or geotechnical engineer confirming that any temporary soil/ rock anchors installed into public roadway, have been de-stressed and are no longer providing any structural support.
- h) Certification from a suitably qualified geotechnical engineer confirming that the Geotechnical Monitoring Program (GMP) was implemented throughout the course of construction and that all structures supporting neighbouring property have been designed and constructed to provide appropriate support of the neighbouring property and with consideration to any temporary loading conditions that may occur on that site, in accordance with the relevant Australian Standard and building codes.
- i) Compliance certificate from Council confirming that all external works in the public road reserve and alteration to Council assets located in the property have been completed to Council's satisfaction.

(Reason: To ensure that all engineering components are completed to the satisfaction of an appropriately qualified person, prior to occupation or use of the development.)

189. **On-Site Stormwater Detention System - Marker Plate.** To ensure the constructed On-site detention will not be modified, a marker plate is to be fixed to each on-site detention system constructed on the site. The plate construction, wordings and installation shall be in accordance with Council's DCP 2014 Part 8.2 (Stormwater and Floodplain Management) and associated annexures. The plate may be purchased from Council's Customer Service Centre at 1 Pope Street – Ryde (Top Ryde City Shopping Centre).

(Reason: To ensure that owners of the site are aware of the location of the onsite detention system and the need to maintain the system over the life of the development.)

190. **Parking Area Linemarking and Signage.** Traffic measures such as directional signage, traffic control linemarking and signs must be installed in the developments parking area. The location and specifications of these measures must be in accordance with AS 2890.1, must be based on Traffic Engineering principals and must be located under the guidance of a suitably qualified Traffic Engineer experienced in traffic safety. Certification that these measures have been implemented must be provided to the Accredited Certifier prior to the issue of an Occupation Certificate for any part of the development requiring use of the parking area.

(Reason: To ensure the safe and efficient circulation of traffic and access to parking areas from the public road.)

191. **Amalgamation of the Lots.** The lots shall be amalgamated prior to the issue of any Occupation Certificate.

(Reason: To ensure the development site reflects the approved development.)

192. **All acoustic works/methods/procedures/control measures.** Prior to the issue of any occupation certificate written certification from a suitably qualified person(s) shall be submitted to the Principal Certifying Authority and Council, stating that all works / methods / procedures / control measures approved by Council have been completed in accordance with Acoustic Report No. 20E-18-0447-TRP-47570494-14 prepared by Vipac and dated 5 May 2022. The Certificate is also to verify that the appropriate design and construction materials have been utilised to ensure compliance with the relevant Australian Standards AS/NZS 2107 and Table 4 point 8 of the EPA Road Noise Policy, Department of Environment, Climate Change and Water NSW, March 2011.

(Reason: To ensure the required noise attenuation measures are implemented.)

OPERATIONAL CONDITIONS

The conditions in this Part of the consent relate to the on-going operation of the development and shall be complied with at all times.

193. **Offensive noise.** The use/occupation of the premises, and noise and vibration from the use and operation of any plant and equipment and/or building services associated with the premises must not cause the emission of 'offensive noise' as defined in the *Protection of the Environment Operations Act 1997*.

(Reason: To ensure the development does not impact on the amenity of the locality).

194. **Delivery and loading/unloading.** No deliveries, loading or unloading associated with the premises are to take place between the hours of 10pm and 7am on any day (with the exception of waste collection).

All loading and unloading in relation to the use of the premises shall take place wholly within the property. Vehicle queuing on the public road is not permitted. Vehicles permitted to use the loading dock shall not exceed 10.8m in length.

(Reason: To ensure loading/unloading does not impact on the amenity of the locality).

195. **Implementation of Loading Dock Management Plan.** All vehicle ingress and/or egress activities are to be undertaken in accordance with the approved Loading Dock Management Plan. Vehicle queuing on public road(s) or outside of the loading dock is not permitted.

Reason: This condition is to ensure that the measures outlined in the approved loading dock management plan is implemented.

196. **No advertising.** No approval is granted in this consent for general or third party advertising which is prohibited.

(Reason: Statutory requirement).

197. **Landscaping.** All landscaping works approved by Condition 1 are to be maintained for the life of the development.

The pedestrian path to Ivanhoe Estate (in the vicinity of Mahogany Avenue) at the rear of the site can only formally be made available to owners/occupants of the site after the Ivanhoe Estate Road ('Mahogany Avenue') is dedicated to Council as a public asset.

(Reason: To ensure the development is in accordance with the development consent).

198. **Removal of Graffiti.** It is the responsibility of the owner(s)/strata of the development to remove any graffiti on the site which is visible from the public domain in a timely manner.

(Reason: To ensure the development is maintained free of graffiti).

199. **No clothes drying on balconies.** It is the responsibility of the owner(s)/strata/occupants of the development to ensure that clothes drying is not carried out on balconies where such facilities are visible from the public domain.

(Reason: To ensure the visibility of laundry facilities is avoided in accordance with Council's DCP).

200. **Management of Waste Services.** The waste storage and collection services are to be maintained for the life of the development as follows:
- a) All domestic waste shall be collected by the Council waste collection contractor. The collection of domestic waste is not permitted to be undertaken by private contractors.
 - b) Bins brought to the garbage pick up area adjacent to the loading bay must be stored so they do not impede on the loading bay or access for cars entering the basement.
 - c) Signs will be required to be placed within the bin area to encourage correct recycling and reduce contamination. City of Ryde will provide the required signage.
 - d) All waste storage areas must be maintained in a clean and tidy condition at all times.
 - e) Staff or contractors must be employed to take the waste containers from garbage and recycling room to the container emptying point for servicing and to return the containers to the garbage room after servicing.
 - f) All wastes generated on the premises must be stored and disposed of in an environmentally acceptable manner.
 - g) An adequate number of suitable waste containers must be kept on the premises for the storage of garbage and trade waste.
 - h) Between collection periods, all waste/recyclable materials generated on site must be kept in enclosed bins with securely fitting lids so the contents are not able to leak or overflow. Bins must be stored in the designated waste/recycling storage room(s) or area(s) between collection periods.

(Reason: To ensure that waste is appropriately managed).

201. **Parking Allocation.** Both the owner and occupier of the development must provide and maintain the parking allocation as follows:
- A maximum of 97 residential spaces;
 - 2 car share spaces;
 - 10 visitor spaces; and
 - A minimum of 11 bicycle parking spaces.

(Reason: To ensure the development maintains the capacity and allocation of parking spaces on the site.)

202. **Stormwater Management – Implementation of maintenance program.** The stormwater management system components are to be maintained for the ongoing life of the development by the strata management / owners corporation, as per the details in the approved drainage system maintenance plan (DSMP).

(Reason: To ensure the stormwater management system is appropriately maintained for the life of the development.)

203. **Compliance Report.** A report from a qualified acoustical consultant demonstrating that the mechanical plant complies with the relevant noise legislation and project trigger levels outlined in the Acoustic DA Report No. 20E-18-0447-TRP-47570494-4 prepared by Vipac and dated 5 May 2022 shall be submitted to Council within thirty (30) days of completion and commissioning of the plant and equipment.

(Reason: To ensure that the development is in accordance with the required acoustic attenuation measures).

204. **Noise and vibration from plant or equipment.** Unless otherwise provided in this Consent, the operation of any plant or equipment installed on the premises must not cause:
- a) The emission of noise that exceeds the background noise level by more than 5dBA when measured at, or computed for, the most affected point, on or within the boundary of the most affected receiver. Modifying factor corrections must be applied for tonal, impulsive, low frequency or intermittent noise in accordance with the New South Wales Industrial Noise Policy (EPA, 2000).
 - b) An internal noise level in any adjoining occupancy that exceeds the recommended design sound levels specified in Australian/New Zealand Standard AS/NZS 2107:2000 Acoustics – Recommended design sound levels and reverberation times for building interiors.
 - c) The transmission of vibration to any place of different occupancy.

(Reason: To protect the amenity of surrounding properties).

205. **Air Conditioners in Residential Buildings.** The air conditioner/s must not:
- (1) emit noise that is audible within a habitable room in any other residential property (regardless of whether any door or window to that room is open):
 - (a) before 8.00am and after 10.00pm on any Saturday, Sunday or public holiday; or
 - (b) before 7.00am and after 10.00pm on any other day.
 - (2) emit a sound pressure level when measured at the boundary of any other residential property, at a time other than those as specified in (1), which exceeds the background (LA90, 15 minute) by more than 5dB(A). The source noise level must be measured as a LAeq 15 minute.

(Reason: To protect the amenity of occupants and surrounding properties).

End of conditions.