

Development Consent

Section 4.38 of the Environmental Planning and Assessment Act 1979

As delegate of the Minister for Planning under delegation executed on 11 October 2017, I approve the Development Application referred to in Schedule 1, subject to the conditions specified in Schedule 2.

These conditions are required to:

- prevent, minimise, or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the development.



Karen Harragon
A/Executive Director
Priority Projects

Sydney

18 April

2019

SCHEDULE 1

Application Number:	SSD 8755
Applicant:	Macquarie University
Consent Authority:	Minister for Planning
Site:	Macquarie University, 73 Talavera Road, Macquarie Park (Lot 191 DP1157041)
Development:	Macquarie University Central Courtyard Redevelopment, comprising: • remediation works; • construction of a multi-storey building to accommodate the Student Hub, including learning spaces, graduation hall and food and beverage retail outlets; • construction of two student accommodation buildings with heights of 5 and 7 storeys above double height ground floors, to provide approximately 340 student beds and integrated academic uses; • redevelopment of the landscaped Central Courtyard; • construction of a shared basement including plant, loading and waste management facilities, end of trip facilities and accessible parking; • installation of a new substation; • installation of utilities and services; • upgrade of western extent of Science Road; and • tree removal and landscaping.

DEFINITIONS

Aboriginal object	Has the same meaning as the definition of the term in section 5 of the <i>National Parks and Wildlife Act 1974</i>
Aboriginal place	Has the same meaning as the definition of the term in section 5 of the <i>National Parks and Wildlife Act 1974</i>
Advisory Notes	Advisory information relating to the consent but do not form a part of this consent
Applicant	Macquarie University or any other person carrying out any development to which this consent applies
Archaeological Salvage	As identified in any Aboriginal Cultural Heritage Management Sub-Plan
BCA	Building Code of Australia
BC Act	<i>Biodiversity Conservation Act 2016</i>
BCF	Biodiversity Conservation Fund
CEMP	Construction Environmental Management Plan
Certification of Crown building work	Certification under section 109R of the EP&A Act
Certifying Authority	Professionals that are accredited by the Building Professionals Board to issue construction, occupation, subdivision, strata, compliance and complying development certificates under the EP&A Act, <i>Strata Schemes (Freehold Development) Act 1973</i> and <i>Strata Schemes (Leasehold Development) Act 1986</i> or in the case of Crown development, a person qualified to conduct a Certification of Crown Building works.
Conditions of this consent	The conditions contained in Schedule 2 of this document
Construction	All physical work to enable operation including but not limited to the demolition, the carrying out of works for the purposes of the development, including bulk earthworks, and erection of buildings and other infrastructure permitted by this consent, but excluding the following: • building and road dilapidation surveys; • investigative drilling, investigative excavation or Archaeological Salvage; • establishing temporary site offices (in locations identified by the conditions of this consent); • installation of environmental impact mitigation measures, fencing, enabling works; and • minor adjustments to services or utilities.
Council	City of Ryde Council
Day	The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and Public Holidays
Demolition	The deconstruction and removal of buildings, sheds and other structures on the site
Department	NSW Department of Planning and Environment
Development	The development described in the EIS and Response to Submissions, including the works and activities comprising construction and operation of the building forming the Macquarie University Central Courtyard Redevelopment, as modified by the conditions of this consent.
Earthworks	Bulk earthworks, site levelling, import and compaction of fill material, excavation for installation of drainage and services, to prepare the site for construction
EIS	The Environmental Impact Statement titled <i>Environmental Impact Statement</i>

State Significant Development Application Macquarie University Central Courtyard Precinct Redevelopment, prepared by Ethos Urban dated June 2018, submitted with the application for consent for the development, including any additional information provided by the Applicant in support of the application

ENM	Excavated Natural Material
Environment	Includes all aspects of the surroundings of humans, whether affecting any human as an individual or in his or her social groupings
EPA	NSW Environment Protection Authority
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
Evening	The period from 6pm to 10pm.
Feasible	Means what is possible and practical in the circumstances
Heritage Item	An item as defined under the <i>Heritage Act 1977</i> , and assessed as being of local, State and/ or National heritage significance, and/or an Aboriginal Object or Aboriginal Place as defined under the <i>National Parks and Wildlife Act 1974</i> , the World Heritage List, or the National Heritage List or Commonwealth Heritage List under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth), or anything identified as a heritage item under the conditions of this consent
IBRA	Interim Biogeographic Regionalisation for Australia
Incident	An occurrence or set of circumstances that causes, or threatens to cause, material harm and which may or may not be, or cause, a non-compliance <i>Note: "material harm" is defined in this consent</i>
Land	Has the same meaning as the definition of the term in section 1.4 of the EP&A Act
Management and mitigation measures	The management and mitigation measures set out in the Response to Submissions.
Material harm	Is harm that: a) involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial; or b) results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment)
Minister	NSW Minister for Planning (or delegate)
Mitigation	Activities associated with reducing the impacts of the development prior to or during those impacts occurring
Monitoring	Any monitoring required under this consent must be undertaken in accordance with section 9.40 of the EP&A Act
Night	The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and Public Holidays
Non-compliance	An occurrence, set of circumstances or development that is a breach of this consent
OEH	NSW Office of Environment and Heritage
OEMP	Operational Environmental Management Plan
Operation	The carrying out of the approved purpose of the development upon completion of construction.
PA	Means a planning agreement within the meaning of the term in section 7.4 of the EP&A Act.

Planning Secretary	Planning Secretary under the EP&A Act, or nominee
PCT	Plant Community Type
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Reasonable	Means applying judgement in arriving at a decision, taking into account: mitigation, benefits, costs of mitigation versus benefits provided, community views, and the nature and extent of potential improvements.
Registered Aboriginal Parties	Means the Aboriginal persons identified in accordance with the document entitled " <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> " (DECCW)
Rehabilitation	The restoration of land disturbed by the development to a good condition, to ensure it is safe, stable and non-polluting.
Remediation	Means the remediation requirement outlined in <i>Remediation Action Plan</i> dated 7 March 2019 prepared by Geo-Logix.
Response to submissions	The Applicant's response to issues raised in submissions received in relation to the application for consent for the development under the EP&A Act.
RMS	NSW Roads and Maritime Services
Sensitive receivers	A location where people are likely to work, occupy or reside, including a dwelling, school, hospital, office or public recreational area.
Site	The land defined in Schedule 1.
Site Auditor	As defined in section 4 of the <i>Contaminated Land Management Act 1997</i>
Site Audit Report	As defined in section 4 of the <i>Contaminated Land Management Act 1997</i>
Site Audit Statement	As defined in section 4 of the <i>Contaminated Land Management Act 1997</i>
Supplementary Information	Additional information submitted following the Response to Submissions by Macquarie University dated 26 March 2019.
TfNSW	Transport for New South Wales
VENM	Virgin Excavated Natural Material
Waste	Has the same meaning as the definition of the term in the Dictionary to the POEO Act
Year	A period of 12 consecutive months

SCHEDULE 2

PART A ADMINISTRATIVE CONDITIONS

Obligation to Minimise Harm to the Environment

- A1. In addition to meeting the specific performance measures and criteria in this consent, all reasonable and feasible measures must be implemented to prevent, and, if prevention is not reasonable and feasible, minimise any material harm to the environment that may result from the construction and operation of the development.

Terms of Consent

- A2. The development may only be carried out:
- (a) in compliance with the conditions of this consent;
 - (b) in accordance with all written directions of the Planning Secretary;
 - (c) generally in accordance with the EIS, Response to Submissions and Supplementary Information;
 - (d) in accordance with the approved plans in the table below:

Architectural Drawings prepared by <i>architectus</i>			
Dwg No.	Rev	Name of Plan	Date
S5a-1_CC-AR-DA-NA-001	A	Site Plan – Demolition	22.11.2017
S5b-1_CC-AR-DA-NA-003	B	Site Plan	06.10.2017
S5a-1_CC-AR-TS-B1-100	K	GA Plan – Basement Level Lower	16.07.2018
S5a-1_CC-AR-TS-B1-101	J	GA Plan – Basement Level Upper	09.07.2018
S5a-1_CC-AR-TS-GR-102	K	GA Plan – Ground Level	16.07.2018
S5a-1_CC-AR-TS-GR-103	J	GA Plan – Ground Level Ceiling Void	09.07.2018
S5a-1_CC-AR-DA-L1-104	B	DA Plan – Level 01	05.10.2017
S5a-1_CC-AR-DA-L2-105	B	DA Plan – Level 02	05.10.2017
S5a-1_CC-AR-TS-L3-106	K	GA Plan – Level 03	18.07.2018
S5a-1_CC-AR-TS-L4-107	J	GA Plan – Roof Plan	09.07.2018
S5a-1_CC-AR-TS-NA-300	E	GA Elevations – North	18.07.2018
S5a-1_CC-AR-TS-NA-301	D	GA Elevations – East	09.07.2018
S5a-1_CC-AR-TS-NA-302	D	GA Elevations – South	09.07.2018
S5a-1_CC-AR-TS-NA-303	D	GA Elevations – West	09.07.2018
S5a-1_CC-AR-TS-NA-310	D	GA Section A-A	09.07.2018
S5a-1_CC-AR-TS-NA-311	D	GA Section B-B	09.07.2018
S5a-1_CC-AR-TS-NA-312	D	GA Section C-C	09.07.2018
S5a-1_CC-AR-TS-NA-313	D	GA Section D-D	09.07.2018
S5a-1_CC-AR-TS-NA-314	D	GA Section E-E	09.07.2018
S5a-1_CC-AR-DA-NA-300	B	GFA Plans	05.09.2018
S5b-1-CC-AR-TS-B1-100	D	Overall Plan – Basement	20.07.2018
S5b-1-CC-AR-TS-GR-102	E	Overall Plan – Ground Level	24.08.2018
S5b-1-CC-AR-TS-L1-103	D	Overall Plan – Level 1	24.08.2018
S5b-1-CC-AR-TS-L2-104	D	Overall Plan – Level 2	24.08.2018
S5b-1-CC-AR-TS-L3-105	D	Overall Plan – Level 3	24.08.2018
S5b-1-CC-AR-TS-L4-106	D	Overall Plan – Level 4	24.08.2018
S5b-1-CC-AR-TS-L5-107	D	Overall Plan – Level 5	24.08.2018

S5b-1-CC-AR-TS-L6-108	C	Overall Plan – Level 6	09.07.2018
S5b-1-CC-AR-TS-NA-300	D	Elevation – R1 East	17.08.2018
S5b-1-CC-AR-TS-NA-301	D	Elevation – R1 West	17.08.2018
S5b-1-CC-AR-TS-NA-302	D	Elevations – R1 North	17.08.2018
S5b-1-CC-AR-TS-NA-303	C	Elevations – R1 South	17.08.2018
S5b-1-CC-AR-TS-NA-304	D	Elevations – R2 East	17.08.2018
S5b-1-CC-AR-TS-NA-305	D	Elevation – R2 West	17.08.2018
S5b-1-CC-AR-TS-NA-306	D	Elevations – R2 North South	17.08.2018
S5b-1-CC-AR-TS-NA-311	C	Building Section R1	09.07.2018
S5b-1-CC-AR-TS-NA-312	C	Building Section R2	09.07.2018
S5b-1-CC-AR-DA-NA-A-901	A	Area Schedule – GFA	29.09.2017

Landscape Drawings prepared by ASPECT Studios

Dwg No.	Rev	Name of Plan	Date
ALL-MCCP-LA-DA-B1-100	A	MASTER PLAN Basement Lower Level [Parkland]	18/10/17
ALL-MCCP-LA-DA-GR-102	A	MASTER PLAN Ground Level [Courtyard]	18/10/17
ALL-MCCP-LA-DA-NA-001	A	MASTER PLAN Overall	18/10/17
ALL-MCCP-LA-DA-NA-002	A	MASTER PLAN Section Markers	18/10/17
S_2-CCPD-LA-DA-GR-102	A	Central Courtyard Landscape Plan – Ground Level [Courtyard]	18/10/17
S_2-CCPD-LA-DA-NA-001	A	Central Courtyard Landscape Plan [Overall]	18/10/17
S_2-CCPD-LA-DA-NA-200	A	Central Courtyard Sections	18/10/17
S_2-CCPD-LA-DA-NA-201	A	Central Courtyard Sections	18/10/17
S5a-1_CC-LA-DA-B1-100	A	1_CC Landscape Plan – Basement Lower Level [Parkland]	18/10/17
S5a-1_CC-LA-DA-GR-102	A	1_CC Landscape Plan – Ground Level [Courtyard]	18/10/17
S5a-1_CC-LA-DA-NA-001	A	1_CC Landscape Plan [Overall]	18/10/17
S5a-1_CC-LA-DA-NA-200	A	1_CC Sections	18/10/17
S5a-1_CC-LA-DA-NA-201	A	1_CC Sections	18/10/17
S5b-1_CC-LA-DA-B1-100	A	R1 – R2 General Arrangement	18/10/17
S5b-1_CC-LA-DA-GR-102	A	R1 – R2 General Arrangement	18/10/17
S5b-1_CC-LA-DA-NA-001	A	R1 – R2 General Arrangement	18/10/17
S5b-1_CC-LA-DA-NA-200	A	R1 – R2 Sections	18/10/17
S5b-1_CC-LA-DA-NA-201	A	R1 – R2 Sections	18/10/17
S5b-1_CC-LA-DA-NA-202	A	R1 – R2 Sections	18/10/17

- A3. Consistent with the requirements in this consent, the Planning Secretary may make written directions to the Applicant in relation to:
- the content of any strategy, study, system, plan, program, review, audit, notification, report or correspondence submitted under or otherwise made in relation to this consent, including those that are required to be, and have been, approved by the Planning Secretary; and
 - the implementation of any actions or measures contained in any such document referred to in (a) above.

- A4. The conditions of this consent and directions of the Planning Secretary prevail to the extent of any inconsistency, ambiguity or conflict between them and a document listed in condition A2(c). In the event of an inconsistency, ambiguity or conflict between any of the documents listed in condition A2(c), the most recent document prevails to the extent of the inconsistency, ambiguity or conflict.

Limits of Consent

- A5. This consent lapses five years after the date of consent unless the works associated with the development have physically commenced.
- A6. This consent does not approve retail fit-out. Separate approvals for the retail fit-outs, must be obtained for this use, if required by the EP&A Act.

Prescribed Conditions

- A7. The Applicant must comply with all relevant prescribed conditions of development consent under Part 6, Division 8A of the EP&A Regulation.

Planning Secretary as Moderator

- A8. In the event of a dispute between the Applicant and a public authority, in relation to an applicable requirement in this approval or relevant matter relating to the Development, either party may refer the matter to the Planning Secretary for resolution. The Planning Secretary's resolution of the matter must be binding on the parties.

Long Service Levy

- A9. For work costing \$25,000 or more, a Long Service Levy must be paid. For further information please contact the Long Service Payments Corporation Helpline on 131 441.

Legal Notices

- A10. Any advice or notice to the consent authority must be served on the Planning Secretary.

Evidence of Consultation

- A11. Where conditions of this consent require consultation with an identified party, the Applicant must:
- (a) consult with the relevant party prior to submitting the subject document for information or approval; and
 - (b) provide details of the consultation undertaken including:
 - (i) the outcome of that consultation, matters resolved and unresolved; and
 - (ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.

Staging, Combining and Updating Strategies, Plans or Programs

- A12. With the approval of the Planning Secretary, the Applicant may:
- (a) prepare and submit any strategy, plan or program required by this consent on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program);
 - (b) combine any strategy, plan or program required by this consent (if a clear relationship is demonstrated between the strategies, plans or programs that are proposed to be combined); and
 - (c) update any strategy, plan or program required by this consent (to ensure the strategies, plans and programs required under this consent are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development).
- A13. If the Planning Secretary agrees, a strategy, plan or program may be staged or updated without consultation being undertaken with all parties required to be consulted in the relevant condition in this consent.

- A14. If approved by the Planning Secretary, updated strategies, plans or programs supersede the previous versions of them and must be implemented in accordance with the condition that requires the strategy, plan or program.

Demolition

- A15. Demolition work must comply with *Australian Standard AS 2601-2001 The demolition of structures* (Standards Australia, 2001). The work plans required by AS 2601-2001 must be accompanied by a written statement from a suitably qualified person that the proposals contained in the work plan comply with the safety requirements of the Standard. The work plans and the statement of compliance must be submitted to the Certifying Authority before the commencement of works.

Structural Adequacy

- A16. All new buildings and structures, and any alterations or additions to existing buildings and structures, that are part of the development, must be constructed in accordance with the relevant requirements of the BCA.

Notes:

- *Part 8 of the EP&A Regulation sets out the requirements for the certification of the development.*

External Walls and Cladding

- A17. The external walls of all buildings including additions to existing buildings must comply with the relevant requirements of the BCA.

Student Beds

- A18. A total of 342 student beds are approved as part of this consent.

Restrictions on Use – Accommodation

- A19. Residents accommodated within the facility during the university semester periods must be students that are enrolled at the University, staff employed by the University and/or other persons affiliated or connected with the University (which may include visiting academics or students).
- A20. Residents accommodated within the facility outside the university semester periods must either meet the criteria in condition A19 or be attending, or affiliated with, University events or activities.

Applicability of Guidelines

- A21. References in the conditions of this consent to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this consent.
- A22. However, consistent with the conditions of this consent and without altering any limits or criteria in this consent, the Planning Secretary may, when issuing directions under this consent in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.

Monitoring and Environmental Audits

- A23. Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, Site audit report and independent auditing.

Note: *For the purposes of this condition, as set out in the EP&A Act, "monitoring" is monitoring of the development to provide data on compliance with the consent or on the environmental impact of the development, and an "environmental audit" is a periodic or particular documented evaluation of the development to provide information on compliance with the consent or the environmental management or impact of the development.*

Access to Information

- A24. At least 48 hours before the commencement of construction until the completion of all works under this consent, or such other time as agreed by the Planning Secretary, the Applicant must:

- (a) make the following information and documents (as they are obtained or approved) publicly available on its website:
 - (i) the documents referred to in condition A2 of this consent;
 - (ii) all current statutory approvals for the development;
 - (iii) all approved strategies, plans and programs required under the conditions of this consent;
 - (iv) regular reporting on the environmental performance of the development in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent;
 - (v) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;
 - (vi) a summary of the current stage and progress of the development;
 - (vii) contact details to enquire about the development or to make a complaint;
 - (viii) a complaints register, updated monthly;
 - (ix) audit reports prepared as part of any independent audit of the development and the Applicant's response to the recommendations in any audit report;
 - (x) any other matter required by the Planning Secretary; and
- (b) keep such information up to date, to the satisfaction of the Planning Secretary.

Compliance

A25. The Applicant must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.

ADVISORY NOTES

AN1. All licences, permits, approvals and consents as required by law must be obtained and maintained as required for the development. No condition of this consent removes any obligation to obtain, renew or comply with such licences, permits, approvals and consents.

PART B PRIOR TO COMMENCEMENT OF CONSTRUCTION

Notification of Commencement

- B1. The Department must be notified in writing of the dates of commencement of physical work and operation at least 48 hours before those dates.
- B2. If the construction or operation of the development is to be staged, the Department must be notified in writing at least 48 hours before the commencement of each stage, of the date of commencement and the development to be carried out in that stage.

Certified Drawings

- B3. Prior to the commencement of construction, the Applicant must submit to the satisfaction of the Certifying Authority structural drawings prepared and signed by a suitably qualified practising Structural Engineer that demonstrates compliance with:
 - (a) the relevant clauses of the BCA; and
 - (b) this development consent.

External Walls and Cladding

- B4. Prior to the commencement of construction, the Applicant must provide the Certifying Authority with documented evidence that the products and systems proposed for use or used in the construction of external walls, including finishes and claddings such as synthetic or aluminium composite panels, comply with the requirements of the BCA.
- B5. The Applicant must provide a copy of the documentation given to the Certifying Authority to the Planning Secretary within seven days after the Certifying Authority accepts it.

Protection of Public Infrastructure

- B6. Before the commencement of construction, the Applicant must:
 - (a) consult with the relevant owner and provider of services that are likely to be affected by the development to make suitable arrangements for access to, diversion, protection and support of the affected infrastructure;
 - (b) prepare a dilapidation report identifying the condition of all public infrastructure in the vicinity of the site (including roads, gutters and footpaths); and
 - (c) submit a copy of the dilapidation report to the Planning Secretary, Certifying Authority and Council.

Site Contamination

- B7. Remediation approved as part of this development consent must be carried out in accordance with the *Remediation Action Plan* dated 7 March 2019 prepared by Geo-Logix.
- B8. Upon completion of remedial works, the Applicant must submit a Site Audit Report and Section A Site Audit Statement for the relevant part of the site prepared by a NSW EPA accredited Site Auditor. The Site Audit Report and Section A Site Audit Statement must verify the relevant part of the site is suitable for the residential, open space and commercial/industrial land uses and be provided to the satisfaction of the Certifying Authority.

Unexpected Contamination Procedure

- B9. Prior to the commencement of earthworks, the Applicant must prepare an unexpected contamination procedure to ensure that potentially contaminated material is appropriately managed. The procedure must form part of the CEMP in accordance with condition B16 and where any material identified as contaminated is to be disposed off-site, the disposal location and results of testing submitted to the Planning Secretary, prior to its removal from the site.

Utilities and Services

- B10. Before the construction of any utility works associated with the development, the Applicant must obtain relevant approvals from service providers.
- B11. Prior to the commencement of above ground works written advice must be obtained from the Ausgrid, an approved telecommunications carrier and an approved gas carrier (where relevant)

stating that satisfactory arrangements have been made to ensure provisions of adequate services.

Ecologically Sustainable Development

- B12. Prior to the commencement of construction, the Applicant must submit details of all design measures to the satisfaction of the Certifying Authority demonstrating the proposal incorporates ecologically sustainable development initiatives as outlined in *Macquarie University Central Courtyard Precinct (MUCCP) Redevelopment – State Significant Development Application ESD Report* prepared by Arup dated 20 October 2017 to target a minimum 5 Star Green Star rating.

Outdoor Lighting

- B13. Prior to commencement of construction, all outdoor lighting within the site must comply with AS 1158.3.1:2005 Lighting for roads and public spaces – Pedestrian area (Category P) lighting – Performance and design requirements and AS 4282-1997 Control of the obtrusive effects of outdoor lighting. Details demonstrating compliance with these requirements must be submitted to the satisfaction of the Certifying Authority.

Access for People with Disabilities

- B14. The works that are the subject of this application must be designed and constructed to provide access and facilities for people with a disability in accordance with the BCA. Prior to the commencement of construction, the Certifying Authority must ensure that evidence of compliance with this condition from an appropriately qualified person is provided and that the requirements are referenced on any certified plans.

Environmental Management Plan Requirements

- B15. Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:
- (a) detailed baseline data;
 - (b) details of:
 - (i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);
 - (ii) any relevant limits or performance measures and criteria; and
 - (iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;
 - (c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;
 - (d) a program to monitor and report on the:
 - (i) impacts and environmental performance of the development;
 - (ii) effectiveness of the management measures set out pursuant to paragraph (c) above;
 - (e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;
 - (f) a program to investigate and implement ways to improve the environmental performance of the development over time;
 - (g) a protocol for managing and reporting any:
 - (i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);
 - (ii) complaint;
 - (iii) failure to comply with statutory requirements; and
 - (h) a protocol for periodic review of the plan.

Note: The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans

Construction Environmental Management Plan

- B16. A Construction Environmental Management Plan (CEMP) and it must include, but not be limited to, the following:
- (a) Details of:
 - (i) hours of work;
 - (ii) 24-hour contact details of site manager;
 - (iii) management of dust and odour to protect the amenity of the neighbourhood;
 - (iv) stormwater control and discharge;
 - (v) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the site;
 - (vi) groundwater management plan including measures to prevent groundwater contamination;
 - (vii) external lighting in compliance with AS 4282-1997 Control of the obtrusive effects of outdoor lighting;
 - (viii) community consultation and complaints handling;
 - (b) Construction Traffic and Pedestrian Management Sub-Plan (see condition B18);
 - (c) Construction Noise and Vibration Management Sub-Plan (see condition B19);
 - (d) Construction Waste Management Sub-Plan (see condition B20);
 - (e) Construction Soil and Water Management Sub-Plan (see condition B21);
 - (f) Flood Emergency Response (see condition B22);
 - (g) an unexpected finds protocol for contamination and associated communications procedure;
 - (h) waste classification (for materials to be removed) and validation (for materials to remain) be undertaken to confirm the contamination status in these areas of the site; and
- B17. The Applicant must not commence construction of the development until the CEMP is approved by the Certifying Authority and a copy submitted to the Planning Secretary.
- B18. The Construction Traffic and Pedestrian Management Sub-Plan (CTPMSP) must address, but not be limited to, the following:
- (a) be prepared by a suitably qualified and experienced person(s);
 - (b) be prepared in consultation with TfNSW Sydney Coordination Office and Council;
 - (c) detail the measures that are to be implemented to ensure road safety and network efficiency during construction in consideration of potential impacts on general traffic, cyclists and pedestrians and bus services;
 - (d) detail heavy vehicle routes, access and parking arrangements on the campus;
 - (e) construction worker parking impact and detail measures to minimise impacts on the surrounding road network, including 50 temporary car parking spaces on campus for construction workers and a shuttle bus service to encourage public transport use;
 - (f) detail any interim construction routes, including adopting the alternative access arrangement utilising Epping Road/Culloden Road during the operation of the Station Link services or as otherwise agreed with the TfNSW Sydney Coordination Office;
 - (g) detail construction program;
 - (h) cumulative construction impacts of projects, including Sydney Metro Northwest and Station Link services;
 - (i) include a Driver Code of Conduct to:
 - (i) minimise the impacts of earthworks and construction on the local and regional road network;
 - (ii) minimise conflicts with other road users;
 - (iii) minimise road traffic noise; and
 - (iv) ensure truck drivers use specified routes;

- (j) include a program to monitor the effectiveness of these measures; and
 - (k) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.
- B19. The Construction Noise and Vibration Management Sub-Plan must address, but not be limited to, the following:
- (a) be prepared by a suitably qualified and experienced noise expert;
 - (b) describe procedures for achieving the noise management levels in EPA's *Interim Construction Noise Guideline* (DECC, 2009);
 - (c) describe the measures to be implemented to manage high noise generating works such as piling, in close proximity to sensitive receivers;
 - (d) include strategies that have been developed with the community for managing high noise generating works;
 - (e) describe the community consultation undertaken to develop the strategies in condition B19(d); and
 - (f) include a complaints management system that would be implemented for the duration of the construction.
- B20. The Construction Waste Management Sub-Plan (CWMSP) must address, but not be limited to, the following:
- (a) detail the quantities of each waste type generated during construction and the proposed reuse, recycling and disposal locations;
 - (b) removal of hazardous materials, particularly the method of containment and control of emission of fibres to the air, and disposal at an approved waste disposal facility in accordance with the requirements of the relevant legislation, codes, standards and guidelines, prior to the commencement of any building works.
- B21. The Applicant must prepare a Construction Soil and Water Management Plan (CSWMSP) and the plan must address, but not be limited to the following:
- (a) be prepared by a suitably qualified expert, in consultation with Council;
 - (b) describe all erosion and sediment controls to be implemented during construction;
 - (c) provide a plan of how all construction works will be managed in a wet-weather events (i.e. storage of equipment, stabilisation of the Site);
 - (d) detail all off-Site flows from the Site; and
 - (e) describe the measures that must be implemented to manage stormwater and flood flows for small and large sized events, including, but not limited to 1 in 1-year ARI, 1 in 5-year ARI and 1 in 100-year ARI).
- B22. The Flood Emergency Response Sub-Plan (FERSP) must address, but not be limited to, the following:
- (a) be prepared by a suitably qualified and experienced person(s);
 - (b) address the provisions of the *Floodplain Risk Management Guideline* (OEH, 2007);
 - (c) include details of:
 - (i) Staging of construction;
 - (ii) the flood emergency responses for both construction and operation phases of the development;
 - (iii) predicted flood levels;
 - (iv) flood warning time and flood notification;
 - (v) assembly points and evacuation routes;
 - (vi) evacuation and refuge protocols; and
 - (vii) awareness training for employees and contractors, and students.

Aboriginal Cultural Heritage Management Plan

B23. Prior to the commencement of construction works, an Aboriginal Cultural Heritage Management Plan (ACHMP) must be prepared and submitted to the Department for approval. The ACHMP must address, but not be limited to, the following:

- (a) be prepared by a suitably qualified and experienced expert in consultation with the Registered Aboriginal Parties as identified in the letter titled *Central Courtyard Precinct (SSD_8755)*, *Macquarie University: Aboriginal heritage advice* prepared by Extent Heritage dated 22 March 2019;
- (b) processes, timing, and methods for maintaining Aboriginal community consultation through the remainder of the project;
- (c) detailed review and investigation of the Aboriginal cultural heritage that may be present across the site;
- (d) processes for reviewing, monitoring, and updating the ACHMP as the project progresses, including incorporating any mitigation measures identified in the ACHAR being prepared in accordance with the requirements of condition D5;
- (e) procedures to ensure all works are to immediately cease if unexpected archaeological artefacts are found on-site during any stage of the works and appropriate procedures for notification and recommencing works;
- (f) protocols for the salvage required for the project and also for the long term management of any areas of cultural or archaeological significance, within the project boundaries, but not subject to salvage excavations;
- (g) a requirement for all salvage works to be carried out under supervision of a qualified archaeologist and representatives of the Registered Aboriginal Parties (RAPs) for the project; and
- (h) a requirement for preparation of a final report outlining the results of any salvage work undertaken, which must be prepared in consultation with the project RAPs and should include all comments provided by the project RAPs regarding the salvage process and any long term management of Aboriginal objects.

Stormwater Management System

B24. Prior to the commencement of construction, the Applicant must design an operational stormwater management system for the development and submit it to the satisfaction of the Certifying Authority. The system must:

- (a) be designed by a suitably qualified and experienced person(s);
- (b) be generally in accordance with the conceptual design in the EIS;
- (c) be in accordance with applicable Australian Standards;
- (d) ensure that the system capacity has been designed in accordance with *Australian Rainfall and Runoff* (Engineers Australia, 2016) and *Managing Urban Stormwater: Council Handbook* (EPA, 1997) guidelines;

Flood Management

B25. Prior to the commencement of construction, the Certifying Authority must be satisfied that all floor levels must be no lower than the 1% Annual Exceedance Probability flood plus 500mm of freeboard.

B26. Prior to the commencement of construction, the Certifying Authority must be satisfied that any structures below the 1% Annual Exceedance Probability plus 500mm of freeboard must be constructed from flood compatible building components.

Operational Noise – Design of Mechanical Plant and Equipment

B27. Prior to commencement of construction, the Applicant must incorporate the noise mitigation recommendations in the *Macquarie University Central Courtyard Precinct (MUCCP) Redevelopment – State Significant Development Application Acoustic Report* prepared by Arup dated 6 November 2017, into the detailed design drawings. The Certifying Authority must verify that all reasonable and feasible noise mitigation measures have been incorporated into the

design to ensure the development will not exceed the recommended operational noise levels identified in the *Macquarie University Central Courtyard Precinct (MUCCP) Redevelopment – State Significant Development Application Acoustic Report* prepared by Arup dated 6 November 2017.

Biodiversity

- B28. Prior to any clearing or construction works, the Applicant must retire the class and number of ecosystem credits in the following table to offset the biodiversity impacts of the development.

Impacted plant community type	Number of ecosystem credits	IBRA sub-region	Plant community type(s) that can be used to offset the impacts from development
PCT 1845 – Smooth-barked Apple – Red Bloodwood – Blackbutt tall open forest on shale sandstone transition soils in eastern Sydney	1	Pittwater, Cumberland, Sydney Cataract, Wyong and Yengo, or any IBRA subregion that is within 100 kilometres of the outer edge of the impacted site.	Any PCT in the Northern Hinterland Wet Sclerophyll Forests (including PCT's 1281, 1845)

- B29. The retirement of credits in condition B28 may be satisfied by payment to the Biodiversity Conservation Fund (BCF) of an amount equivalent to the class and number of credits, as calculated by the Biodiversity Offsets Payment Calculator.
- B30. Prior to any clearing or construction works, the Applicant must provide evidence to the Secretary of retirement of the required credit (OEH issued credit retirement report) or payment to the BCF (section 6.33 Statement Confirming Payment into the BCF by the Biodiversity Conservation Trust).

Construction and Demolition Waste Management

- B31. The Applicant must notify the RMS Traffic Management Centre of the truck route(s) to be followed by trucks transporting waste material from the site, prior to the commencement of the removal of any waste material from the site.

Mechanical Ventilation

- B32. All mechanical ventilation systems must be designed in accordance with Part F4.5 of the BCA and must comply with the AS 1668.2-2012 *The use of air-conditioning in buildings – Mechanical ventilation in buildings* and AS/NZS 3666.1:2011 *Air handling and water systems of buildings– Microbial control* to ensure adequate levels of health and amenity to the occupants of the building and to ensure environment protection. Details must be submitted to the satisfaction of the Certifying Authority prior to the commencement of construction.

Rainwater Harvesting

- B33. Prior to the commencement of construction, the Applicant must ensure that a rainwater reuse/harvesting system for the development is developed for the site. A rainwater re-use plan must be prepared and certified by an experienced hydraulic engineer.

Car Parking and Service Vehicle Layout

- B34. Compliance with the following requirements must be submitted to the satisfaction of the Certifying Authority prior to the commencement of construction:
- all vehicles must enter and leave the Site in a forward direction;
 - the swept path of the longest vehicle entering and exiting the Site in association with the new work, as well as manoeuvrability through the Site, must be in accordance with AUSTROADS; and
 - the safety of vehicles and pedestrians accessing adjoining properties, where shared vehicle and pedestrian access occurs, is to be addressed.

Bicycle Parking and End-of-Trip Facilities

- B35. Compliance with the following requirements for secure bicycle parking and end-of-trip facilities must be submitted to the satisfaction of the Certifying Authority prior to the commencement of construction:
- a) the provision of a minimum 68 bicycle parking spaces;
 - b) the layout, design and security of bicycle facilities must comply with the minimum requirements of AS 2890.3:2015 *Parking facilities - Bicycle parking*, and be located in easy to access, well-lit areas that incorporate passive surveillance;
 - c) the provision of end-of-trip facilities for staff in accordance with the ESD Design & As Built rating tool;
 - d) appropriate pedestrian and cyclist advisory signs are to be provided; and
 - e) all works/regulatory signposting associated with the proposed developments shall be at no cost to the relevant roads authority.

Compliance Reporting

- B36. No later than two weeks before the date notified for the commencement of construction, a Compliance Monitoring and Reporting Program prepared in accordance with the Compliance Reporting Post Approval Requirements (Department 2018) must be submitted to the Department and the Certifying Authority.
- B37. Compliance Reports of the project must be carried out in accordance with the Compliance Reporting Post Approval Requirements (Department 2018).
- B38. The Applicant must make each Compliance Report publicly available 60 days after submitting it to the Department and notify the Department and the Certifying Authority in writing at least seven days before this is done.
- B39. Notwithstanding the requirements of the Compliance Reporting Post Approval Requirements (Department 2018), the Planning Secretary may approve a request for ongoing annual operational compliance reports to be ceased, where it has been demonstrated to the Planning Secretary's satisfaction that an operational compliance report has demonstrated operational compliance.

PART C DURING CONSTRUCTION

Approved Plans to be On-site

- C1. A copy of the approved and certified plans, specifications and documents incorporating conditions of approval and certification must be kept on the Site at all times and must be readily available for perusal by any officer of the Department, Council or the Certifying Authority.

Site Notice

- C2. A site notice(s):
- (a) must be prominently displayed at the boundaries of the site for the purposes of informing the public of project details including, but not limited to the details of the Builder, Certifying Authority and Structural Engineer.
 - (b) is to satisfy all but not be limited to, the following requirements:
 - (i) minimum dimensions of the notice must measure 841 mm x 594 mm (A1) with any text on the notice to be a minimum of 30-point type size;
 - (ii) the notice is to be durable and weatherproof and is to be displayed throughout the works period;
 - (iii) the approved hours of work, the name of the site/ project manager, the responsible managing company (if any), its address and 24-hour contact phone number for any inquiries, including construction/ noise complaint must be displayed on the site notice; and
 - (iv) the notice(s) is to be mounted at eye level on the perimeter hoardings/fencing and is to state that unauthorised entry to the site is not permitted.

Operation of Plant and Equipment

- C3. All plant and equipment used on site, or to monitor the performance of the development must be:
- a) maintained in a proper and efficient condition; and
 - b) operated in a proper and efficient manner.

Demolition

- C4. Demolition work must comply with *Australian Standard AS 2601-2001* The demolition of structures (Standards Australia, 2001). The work plans required by AS 2601-2001 must be accompanied by a written statement from a suitably qualified person that the proposals contained in the work plan comply with the safety requirements of the Standard. The work plans and the statement of compliance must be submitted to the Certifying Authority before the commencement of works.

Construction Hours

- C5. Construction, including the delivery of materials to and from the site, may only be carried out between the following hours:
- (a) between 7am and 7pm, Mondays to Fridays inclusive; and
 - (b) between 8am and 4pm, Saturdays.
- No work may be carried out on Sundays or public holidays.
- C6. Activities may be undertaken outside of the hours in condition C5 if required:
- (a) by the Police or a public authority for the delivery of vehicles, plant or materials; or
 - (b) in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or
 - (c) where the works are inaudible at the nearest sensitive receivers; or
 - (d) where a variation is approved in advance in writing by the Planning Secretary or her nominee if appropriate justification is provided for the works.
- C7. Notification of such activities must be given to affected residents before undertaking the activities or as soon as is practical afterwards.

- C8. Rock breaking, rock hammering, sheet piling, pile driving and similar activities may only be carried out between the following hours:
- (a) 9am to 12pm, Monday to Friday;
 - (b) 2pm to 5pm Monday to Friday; and
 - (c) 9am to 12pm, Saturday.

Implementation of Management Plans

- C9. The Applicant must carry out the construction of the development in accordance with the most recent version of the approved CEMP (including Sub-Plans).

Aboriginal Cultural Heritage Management Plan

- C10. The Applicant must carry out the construction of the development in accordance with the most recent version of the relevant ACHMP.

Construction Traffic

- C11. All construction vehicles (excluding worker vehicles) are to be contained wholly within the site, except if located in an approved on-street work zone, and vehicles must enter the site before stopping.

Road Occupancy Licence

- C12. A Road Occupancy Licence must be obtained from the relevant road authority for any works that impact on traffic flows during construction activities.

SafeWork Requirements

- C13. To protect the safety of work personnel and the public, the work site must be adequately secured to prevent access by unauthorised personnel, and work must be conducted at all times in accordance with relevant SafeWork requirements.

Hoarding Requirements

- C14. The following hoarding requirements must be complied with:
- (a) no third-party advertising is permitted to be displayed on the subject hoarding/ fencing;
 - (b) the construction site manager must be responsible for the removal of all graffiti from any construction hoardings or the like within the construction area within 48 hours of its application; and
 - (c) the Applicant must submit a hoarding application to Council for the installation of any hoardings over Council footways or road reserve.

No Obstruction of Public Way

- C15. The public way (outside of any approved construction works zone) must not be obstructed by any materials, vehicles, refuse, skips or the like, under any circumstances. Non-compliance with this requirement will result in the issue of a notice by the relevant Authority to stop all works on site.

Construction Noise Limits

- C16. The development must be constructed to achieve the construction noise management levels detailed in the *Interim Construction Noise Guideline* (DECC, 2009). All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and managed in accordance with the management and mitigation measures identified in the approved Construction Noise and Vibration Management Plan.
- C17. The Applicant must ensure construction vehicles (including concrete agitator trucks) do not arrive at the site or surrounding residential precincts outside of the construction hours of work outlined under condition C5.
- C18. The Applicant must implement, where practicable and without compromising the safety of construction staff or members of the public, the use audible movement alarms of a type that would minimise noise impacts on surrounding noise sensitive receivers.

- C19. Any noise generated during construction of the development must not be offensive noise within the meaning of the *Protection of the Environment Operations Act 1997* or exceed approved noise limits for the site.

Vibration Criteria

- C20. Vibration caused by construction at any residence or structure outside the site must be limited to:
- (a) for structural damage, the latest version of *DIN 4150-3 (1992-02) Structural vibration - Effects of vibration on structures* (German Institute for Standardisation, 1999); and
 - (b) for human exposure, the acceptable vibration values set out in the *Environmental Noise Management Assessing Vibration: a technical guideline* (DEC, 2006) (as may be updated or replaced from time to time).
- C21. Vibratory compactors must not be used closer than 30 metres from residential buildings unless vibration monitoring confirms compliance with the vibration criteria specified in condition C20.
- C22. The limits in conditions C20 and C21 apply unless otherwise outlined in a Construction Noise and Vibration Management Plan, approved as part of the CEMP required by condition B19 of this consent.

Tree Protection

- C23. For the duration of the construction works:
- (a) street trees must not be trimmed or removed unless it forms a part of this development consent or prior written approval from Council is obtained or is required in an emergency to avoid the loss of life or damage to property;
 - (b) all street trees must be protected at all times during construction. Any tree on the footpath, which is damaged or removed during construction due to an emergency, must be replaced, to the satisfaction of Council;
 - (c) all trees on the site that are not approved for removal must be suitably protected during construction as per recommendations of the *MUCCP Stage 5a & 5b Macquarie University* report prepared by Australian Tree Consultant Pty Ltd dated 27 November 2017; and
 - (d) if access to the area within any protective barrier is required during the works, it must be carried out under the supervision of a qualified arborist. Alternative tree protection measures must be installed, as required. The removal of tree protection measures, following completion of the works, must be carried out under the supervision of a qualified arborist and must avoid both direct mechanical injury to the structure of the tree and soil compaction within the canopy or the limit of the former protective fencing, whichever is the greater.

Dust Minimisation

- C24. The Applicant must take all reasonable steps to minimise dust generated during all works authorised by this consent.
- C25. During construction, the Applicant must ensure that:
- (a) exposed surfaces and stockpiles are suppressed by regular watering;
 - (b) all trucks entering or leaving the site with loads have their loads covered;
 - (c) trucks associated with the development do not track dirt onto the public road network;
 - (d) public roads used by these trucks are kept clean; and
 - (e) land stabilisation works are carried out progressively on site to minimise exposed surfaces.

Erosion and Sediment Control

- C26. All erosion and sediment control measures, must be effectively implemented and maintained at or above design capacity for the duration of the construction works and until such time as all ground disturbed by the works have been stabilised and rehabilitated so that it no longer acts as a source of sediment.

Imported Soil

C27. The Applicant must:

- (a) ensure that only VENM, ENM, or other material approved in writing by EPA is brought onto the site;
- (b) keep accurate records of the volume and type of fill to be used; and
- (c) make these records available to the Certifying Authority upon request.

Disposal of Seepage and Stormwater

C28. Any seepage or rainwater collected on-site during construction or groundwater must not be pumped to the street stormwater system unless separate prior approval is given in writing by Council.

Unexpected Finds Protocol – Historic Heritage

C29. If any unexpected archaeological relics are uncovered during the work, then all works must cease immediately in that area and the OEH Heritage Division contacted. Depending on the possible significance of the relics, an archaeological assessment and management strategy may be required before further works can continue in that area. Works may only recommence with the written approval of Heritage Division of the OEH.

Waste Storage and Processing

- C30. Waste must be secured and maintained within designated waste storage areas at all times and must not leave the site onto neighbouring public or private properties.
- C31. All waste generated during construction must be assess, classified and managed in accordance with the Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014).
- C32. The body of any vehicle or trailer used to transport waste or excavation spoil must be covered before leaving the premises to prevent any spillage or escape of any dust, waste of spoil. Mud, splatter, dust and other material likely to fall from or be cast off the wheels, underside or body of any vehicle, trailer or motorised plant leaving the site must be removed before leaving the premises.
- C33. The Applicant must ensure that concrete waste and rinse water are not disposed of on the site and are prevented from entering any natural or artificial watercourse.

Handling of Asbestos

C34. The Applicant is to consult with SafeWork NSW concerning the handling of any asbestos waste that may be encountered during construction. The requirements of the Protection of the Environment Operations (Waste) Regulation 2014 with particular reference to Part 7 – 'Transportation and management of asbestos waste' must also be complied with.

Independent Environmental Audit

- C35. Proposed independent auditors must be agreed to in writing by the Planning Secretary prior to the preparation of an Independent Audit Program or commencement of an Independent Audit.
- C36. No later than two weeks before the date notified for the commencement of construction, an Independent Audit Program prepared in accordance with the Independent Audit Post Approval Requirements (Department 2018) must be submitted to the Department and the Certifying Authority.
- C37. Table 1 of the Independent Audit Post Approval Requirements (Department 2009) is amended so that the frequency of audits required in the construction phase is:
 - (a) An initial construction Independent Audit must be undertaken within eight weeks of the notified commencement date of construction; and
 - (b) A subsequent Independent Audit of construction must be undertaken no later than six months from the date of the initial construction Independent Audit.
- C38. In all other respects Table 1 remains the same. The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified

above, upon giving at least 4 weeks notice to the applicant of the date upon which the audit must be commenced.

- C39. Independent Audits of the development must be carried out in accordance with:
- (a) the Independent Audit Program submitted to the Department and the Certifying Authority under condition C36 of this consent; and
 - (b) the requirements for an Independent Audit Methodology and Independent Audit Report in the Independent Audit Post Approval Requirements (Department 2018).
- C40. In accordance with the specific requirements in the Independent Audit Post Approval Requirements (Department 2018), the Applicant must:
- (a) review and respond to each Independent Audit Report prepared under condition C39 of this consent;
 - (b) submit the response to the Department and the Certifying Authority; and
 - (c) make each Independent Audit Report and response to it publicly available within 60 days after submission to the Department and notify the Department and the Certifying Authority in writing at least seven days before this is done.
- C41. Notwithstanding the requirements of the Independent Audit Post Approval Requirements (Department 2018), the Planning Secretary may approve a request for ongoing annual operational audits to be ceased, where it has been demonstrated to the Planning Secretary's satisfaction that an audit has demonstrated operational compliance.

Incident Notification, Reporting and Response

- C42. The Department must be notified in writing to compliance@planning.nsw.gov.au immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one), and set out the location and nature of the incident.
- C43. Subsequent notification must be given and reports submitted in accordance with the requirements set out in **Appendix 1**.

Non-Compliance Notification

- C44. The Department must be notified in writing to compliance@planning.nsw.gov.au within seven days after the Applicant becomes aware of any non-compliance. The Certifying Authority must also notify the Department in writing to compliance@planning.nsw.gov.au within seven days after they identify any non-compliance.
- C45. The notification must identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.
- C46. A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.

Revision of Strategies, Plans and Programs

- C47. Within three months of:
- (a) the submission of a compliance report under condition B36;
 - (b) the submission of an incident report under condition C42;
 - (c) the submission of an Independent Audit under condition C39;
 - (d) the approval of any modification of the conditions of this consent; or
 - (e) the issue of a direction of the Planning Secretary under condition A2 which requires a review,

the strategies, plans and programs required under this consent must be reviewed, and the Department and the Certifying Authority must be notified in writing that a review is being carried out.

C48. If necessary to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans and programs required under this consent must be revised, to the satisfaction of the Certifying Authority. Where revisions are required, the revised document must be submitted to the Certifying Authority for approval within six weeks of the review.

Note: *This is to ensure strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development.*

PART D PRIOR TO OCCUPATION OR COMMENCEMENT OF USE

Notification of Occupation

- D1. The date of commencement of the occupation of the development must be notified to the Department in writing, at least one month before occupation. If the operation of the development is to be staged, the Department must be notified in writing at least one month before the commencement of each stage, of the date of commencement and the development to be carried out in that stage.

External Walls and Cladding

- D2. Prior to the occupation of the building, the Applicant must provide the Certifying Authority with documented evidence that the products and systems used in the construction of external walls including finishes and claddings such as synthetic or aluminium composite panels comply with the requirements of the BCA.
- D3. The Applicant must provide a copy of the documentation given to the Certifying Authority to the Planning Secretary within seven days after the Certifying Authority accepts it.

Development Contributions

- D4. Prior to the occupation of the building, any development contributions payable under the Planning Agreement entered into between the City of Ryde Council and Macquarie University must be made and receipt of payment submitted to the satisfaction of the Certifying Authority.

Aboriginal Cultural Heritage Assessment Report

- D5. Prior to the occupation of the building, an Aboriginal Cultural Heritage Assessment Report (ACHAR) for the campus that considers the Aboriginal cultural heritage values that exist across the campus, must be prepared by a suitably qualified and experienced expert and submitted to the Department for approval. The ACHAR must address, but not be limited to, the following:
- (a) identify and describe the Aboriginal cultural heritage values that exist across the University campus, including any necessary surface survey and test excavation;
 - (b) identify and address the Aboriginal cultural heritage values in accordance with the *Guide to investigating, assessing and reporting on Aboriginal Cultural Heritage in NSW* (OEH, 2011) and *Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW* (OEH, 2010);
 - (c) undertake consultation with Aboriginal people and document this consultation in accordance with *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW);
 - (d) the significance of cultural heritage values of Aboriginal people who have a cultural association with the land;
 - (e) identify, assess and document all impacts on the Aboriginal cultural heritage values;
 - (f) demonstrate attempts to avoid any impact upon cultural heritage values and identify any conservation outcomes; and
 - (g) where impacts are unavoidable, outline measures proposed to mitigate impacts.
- D6. Any objects recorded as part of the ACHAR must be documented and notified to OEH.
- D7. Any measures identified in the ACHAR to avoid or mitigate Aboriginal cultural heritage impacts and to conserve Aboriginal cultural heritage values must be adopted and the development modified to address these recommendations prior to occupation of the building.

Post-construction Dilapidation Report

- D8. Prior to occupation of the building, the Applicant must engage a suitably qualified person to prepare a post-construction dilapidation report at the completion of construction. This report is:
- a) to ascertain whether the construction created any structural damage to adjoining buildings or infrastructure.
 - b) to be submitted to the Certifying Authority. In ascertaining whether adverse structural damage has occurred to adjoining buildings or infrastructure, the Certifying Authority must:

- i) compare the post-construction dilapidation report with the pre-construction dilapidation report required by these conditions; and
- ii) have written confirmation from the relevant authority that there is no adverse structural damage to their infrastructure and roads.
- c) to be forwarded to Council.

Protection of Public Infrastructure

D9. Unless the Applicant and the applicable authority agree otherwise, the Applicant must:

- (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by carrying out the development; and
- (b) relocate, or pay the full costs associated with relocating any infrastructure that needs to be relocated as a result of the development.

Note: This condition does not apply to any damage to roads caused as a result of general road usage or otherwise addressed by contributions required by D4 of this consent.

Utilities and Services

D10. Prior to occupation of the building, the Applicant must obtain a Compliance Certificate for water and sewerage infrastructure servicing of the site under section 73 of the *Sydney Water Act 1994*.

Works as Executed Plans

D11. Prior to occupation of the building, works-as-executed drawings signed by a registered surveyor demonstrating that the stormwater drainage and finished ground levels have been constructed as approved, must be submitted to the Certifying Authority.

Mechanical Ventilation

D12. Following completion, installation and testing of all mechanical ventilation systems, the Applicant must provide evidence to the satisfaction of the Certifying Authority, prior to the final occupation, that the installation and performance of the mechanical systems complies with:

- (a) the BCA;
- (b) *AS 1668.2-2012 The use of air-conditioning in buildings – Mechanical ventilation in buildings* and other relevant codes;
- (c) the development consent and any relevant modifications; and
- (d) any dispensation granted by the NSW Fire Brigade.

Road Damage

D13. The cost of repairing any damage caused to Council or other Public Authority's assets in the vicinity of the Subject Site as a result of construction works associated with the approved development is to be met in full by the Applicant prior to commencement of use of any stage of the development.

Fire Safety Certification

D14. Prior to the final occupation, a Fire Safety Certificate must be obtained for all the Essential Fire or Other Safety Measures forming part of this consent. A copy of the Fire Safety Certificate must be submitted to the relevant authority and Council. The Fire Safety Certificate must be prominently displayed in the building.

Structural Inspection Certificate

D15. A Structural Inspection Certificate or a Compliance Certificate must be submitted to the satisfaction of the Certifying Authority prior to the occupation of the relevant parts of any new or refurbished buildings. A copy of the Certificate with an electronic set of final drawings (contact approval authority for specific electronic format) must be submitted to the approval authority and the Council after:

- (a) the site has been periodically inspected and the Certifying Authority is satisfied that the structural works is deemed to comply with the final design drawings; and
- (b) the drawings listed on the Inspection Certificate have been checked with those listed on the final Design Certificate/s.

- (c) person/s authorised to, for the life of the development.

Compliance with Food Code

- D16. The Applicant is to obtain a certificate from a suitably qualified tradesperson, certifying that the kitchen, food storage and food preparation areas have been fitted in accordance with the AS 4674 *Design, construction and fit-out of food premises*. The Applicant must provide evidence of receipt of the certificate to the satisfaction of the Certifying Authority prior to occupation.

Stormwater Quality Management Plan

- D17. Prior to occupation of the building, an Operation and Maintenance Plan (OMP) is to be prepared to ensure proposed stormwater quality measures remain effective. The OMP must contain the following:
- (a) maintenance schedule of all stormwater quality treatment devices;
 - (b) record and reporting details;
 - (c) relevant contact information; and
 - (d) Work Health and Safety requirements.

- D18. Details demonstrating compliance must be submitted to the Certifying Authority prior to occupation.

Rainwater Harvesting

- D19. A signed works-as-executed Rainwater Re-use Plan must be provided to the Certifying Authority prior to occupation of the building.

Warm Water Systems and Cooling Systems

- D20. The installation, operation and maintenance of warm water systems and water cooling systems (as defined under the *Public Health Act 2010*) must comply with the *Public Health Act 2010*, Public Health Regulation 2012 and Parts 1 and 2 (or Part 3 if a Performance-based water cooling system) of AS/NZS 3666.2:2011 *Air handling and water systems of buildings – Microbial control – Operation and maintenance* and the NSW Health Code of Practice for the Control of Legionnaires' Disease.

Outdoor Lighting

- D21. The Applicant must ensure the installed lighting associated with the development achieves the objective of minimising light spillage to any adjoining or adjacent sensitive receivers. Outdoor lighting must:
- (a) comply with the latest version of AS 4282-1997 - *Control of the obtrusive effects of outdoor lighting* (Standards Australia, 1997); and
 - (b) be mounted, screened and directed in such a manner that it does not create a nuisance to surrounding properties or the public road network.

Upon installation of outdoor lighting, but before it is finally commissioned, the Applicant must submit to the Certifying Authority evidence from a qualified practitioner demonstrating compliance in accordance with this condition.

Signage

- D22. Way-finding signage and signage identifying the location of staff car parking must be installed prior to occupation.
- D23. Bicycle way-finding signage must be installed within the site to direct cyclists from footpaths to designated bicycle parking areas prior to occupation.
- D24. 'Do not drink' signage on non-potable water used for toilet flushing and to new hose taps and irrigation systems for landscaped areas must be installed within the site prior to occupation.

Operational Waste Management Plan

- D25. Prior to the commencement of operation, the Applicant must prepare a Waste Management Plan for the development and submit it to the Certifying Authority. The Waste Management Plan must:

- (a) detail the type and quantity of waste to be generated during operation of the development;
- (b) describe the handling, storage and disposal of all waste streams generated on site, consistent with the *Protection of the Environment Operations Act 1997*, *Protection of the Environment Operations (Waste) Regulation 2014* and the *Waste Classification Guideline* (Department of Environment, Climate Change and Water, 2009);
- (c) detail the materials to be reused or recycled, either on or off site; and
- (d) include the Management and Mitigation Measures included in the Response to Submissions.

Validation Report

D26. The Applicant must prepare a Validation Report for the development. The Validation Report must:

- (a) be prepared by an appropriately qualified environmental consultant and reviewed by an EPA accredited Site Auditor;
- (b) be submitted to EPA, the Planning Secretary and the Certifying Authority for information one month after the completion of remediation works;
- (c) be prepared in accordance with the RAP and the *Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites* (OEHS, 2011);
- (d) include, but not be limited to:
 - (i) comment on the extent and nature of the remediation undertaken;
 - (ii) describe the location, nature and extent of any remaining contamination on site;
 - (iii) sampling and analysis plan and sampling methodology;
 - (iv) results of sampling of treated material, compared with the treatment criteria;
 - (v) details of the volume of treated material emplaced within any containment cell and its location;
 - (vi) results of any validation sampling, compared to relevant guidelines/criteria;
 - (vii) discussion of the suitability of the remediated areas for the intended land use; and
 - (viii) any other requirement relevant to the project.

Site Audit Report and Site Audit Statement

D27. Prior to occupation of the building, the Applicant must obtain from an EPA accredited Site Auditor, a Site Audit Statement and a Site Audit Report which demonstrates that the site is suitable for its intended use(s).

D28. Within three months of submission of the Validation Report required by condition D26, the Applicant must demonstrate to the satisfaction of the Certifying Authority that the Site Auditor has submitted a Site Audit Report and Site Audit Statement to EPA in accordance with the requirements of EPA's *Guidelines for the NSW Site Auditor Scheme* (3rd Edition) 2017.

Landscaping

D29. Prior to occupation of the building, the Applicant must prepare a Landscape Management Plan to manage the revegetation and landscaping works on-site, to the satisfaction of the Certifying Authority. The plan must:

- (a) detail the native species to be planted on-site;
- (b) describe the monitoring and maintenance measures to manage revegetation and landscaping works;
- (c) be consistent with the Applicant's Management and Mitigation Measures in the Response to Submissions; and
- (d) provide for the planting of 261 trees.

D30. The Applicant must not commence operation until the Landscape Management Plan is submitted to the Certifying Authority.

PART E POST OCCUPATION

Operation of Plant and Equipment

- E1. All plant and equipment used on site, or to monitor the performance of the development must be:
- (a) maintained in a proper and efficient condition; and
 - (b) operated in a proper and efficient manner.

Operational Noise Limits

- E2. The Applicant must ensure that the hours of use of the student bar (u-bar) are limited to between 12pm and 8pm Monday to Friday.
- E3. Windows and doors to the student bar (u-bar) must be closed whilst operational in the evening.
- E4. The Applicant must ensure that noise generated by operation of the development does not exceed the noise limits in *Macquarie University Central Courtyard Precinct (MUCCP) Redevelopment – State Significant Development Application Acoustic Report* prepared by Arup dated 6 November 2017.
- E5. The Applicant must undertake short term noise monitoring in accordance with the *Noise Policy for Industry* where valid data is collected following the commencement of use of each stage of the development. The monitoring program must be carried out by an appropriately qualified person and a monitoring report must be submitted to the Planning Secretary within two months of commencement use of each stage of the development to verify that operational noise levels do not exceed the recommended noise levels for mechanical plant identified in *Macquarie University Central Courtyard Precinct (MUCCP) Redevelopment – State Significant Development Application Acoustic Report* prepared by Arup dated 6 November 2017. Should the noise monitoring program identify any exceedance of the recommended noise levels referred to above, the Applicant is required to implement appropriate noise attenuation measures so that operational noise levels do not exceed the recommended noise levels or provide attenuation measures at the affected noise sensitive receivers.

Unobstructed Driveways and Parking Areas

- E6. All driveways, footways and parking areas must be unobstructed at all times. Driveways, footways and car spaces must not be used for the manufacture, storage or display of goods, materials, refuse, skips or any other equipment and must be used solely for vehicular and/or pedestrian access and for the parking of vehicles associated with the use of the premises.

Outdoor Lighting

- E7. Notwithstanding Condition D21, should outdoor lighting result in any residual impacts on the amenity of surrounding sensitive receivers, the Applicant must provide mitigation measures in consultation with affected landowners to reduce the impacts to an acceptable level.

Fire Safety Certificate

- E8. The owner must submit to Council an Annual Fire Safety Statement, each 12 months after the final Safety Certificate is issued. The certificate must be on, or to the effect of, Council's Fire Safety Statement.

Ecologically Sustainable Development

- E9. Within six months of commencement of operation, the Applicant must provide the Department and Certifying Authority with a report demonstrating the development as built achieves the equivalent of a minimum 5 star Green Star As Built rating.

Landscaping

- E10. The Applicant must maintain the landscaping and vegetation on the site in accordance with the approved Landscape Management Plan required by condition D29 for the duration of occupation of the development.

APPENDIX 1 WRITTEN INCIDENT NOTIFICATION AND REPORTING REQUIREMENTS

Written Incident Notification Requirements

1. A written incident notification addressing the requirements set out below must be emailed to the Department at the following address: compliance@planning.nsw.gov.au within seven days after the Applicant becomes aware of an incident. Notification is required to be given under this condition even if the Applicant fails to give the notification required under condition C42 or, having given such notification, subsequently forms the view that an incident has not occurred.
2. Written notification of an incident must:
 - a. identify the development and application number;
 - b. provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident);
 - c. identify how the incident was detected;
 - d. identify when the applicant became aware of the incident;
 - e. identify any actual or potential non-compliance with conditions of consent;
 - f. describe what immediate steps were taken in relation to the incident;
 - g. identify further action(s) that will be taken in relation to the incident; and
 - h. identify a project contact for further communication regarding the incident.
3. Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Planning Secretary, the Applicant must provide the Planning Secretary and any relevant public authorities (as determined by the Planning Secretary) with a detailed report on the incident addressing all requirements below, and such further reports as may be requested.
4. The Incident Report must include:
 - a. a summary of the incident;
 - b. outcomes of an incident investigation, including identification of the cause of the incident;
 - c. details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and
 - d. details of any communication with other stakeholders regarding the incident.