

# Appendix C – Consolidated Mitigation Measures

## SSD-64916225 – Indigenous Centre of Excellence Western Sydney University Parramatta South Campus

The collective measures required to mitigate the impacts associated with the proposed works are detailed below. These measures have been derived from the assessment in **Section 7.0** of the Environmental Impact Statement and is supported by additional detail appended consultants' reports.

Ref No.	Mitigation Measure
<b>Design and Operation</b>	
<i>D/O-EH</i>	<i>European Heritage</i>
<i>D/O-EH1</i>	A Heritage Interpretation Plan will be prepared following conclusion of the formal consultation with the Indigenous community as part of the Aboriginal Cultural Heritage Assessment, with recommendations implemented prior to the commencement of works.
<i>D/O-SEC</i>	<i>Safety and Security</i>
<i>D/O-SEC1</i>	Wayfinding signage will be provided to ensure people understand where to enter the building, with clear indicators of where key internal places are located.
<i>D/O-SEC2</i>	Adequate vegetation management will be in place to maintain sightlines in key landscaped areas/
<i>D/O-SEC3</i>	A CCTV network will be provided for the loading dock, circulation spaces and outdoor hardstand areas, including each of the entrance points within the overall development and its curtilage. The CCTV network will be designed in consultation with a suitably qualified security consultant with a Class 2A licence under the Security Industry Act 1997 who can provide specific advice on the placement, installation, monitoring and maintenance of the CCTV network.
<i>D/O-SEC4</i>	A lighting strategy both internally and externally will be developed by a suitably qualified lighting expert experienced in the principles of CPTED including constant and sufficient lux and uniformity levels for lighting.
<i>D/O-ES</i>	<i>Environmental Sustainability</i>
<i>D/O-ES1</i>	The Proponent will explore the sustainable design initiatives proposed within the Environmental Sustainability Report prepared by Flux Consultants, and the Net Zero Statement prepared by Steensen Varming, provided at <b>Appendix U and V</b> , respectively.
<i>D/O-FS</i>	<i>Fire Safety</i>
<i>D/O-FS1</i>	A Performance Based Design Brief (PBDB) will be developed to the satisfaction of the Principle Certifying Authority.
<i>D/O-FS2</i>	A Fire Safety Engineering Report (FSER) will be prepared incorporating stakeholder conditions, comments and advice to the satisfaction of the Principle Certifying Authority
<i>D/O-SW</i>	<i>Stormwater</i>
<i>D/O-SW1</i>	During the construction stage of the project, an erosion and sediment control plan is to be implemented to prevent sediment laden stormwater from flowing into adjoining properties, landscape, roadways or receiving water bodies.
<i>D/O-TT</i>	<i>Traffic and Transport</i>
<i>D/O-TT1</i>	A detailed Green Travel Plan is to be prepared prior to operation of the development.
<i>D/O-TT2</i>	Monitoring and review of the Green Travel plan will be conducted at regular intervals, which will include:

- Updating to reflect any travel-related changes in the local area such as bus services, new cycle routes or pedestrian crossings (this should occur as changes arise).
- Reviewing progress against the proposed mode share targets and update targets if required.
- Identifying any shortfalls in the GTP and updating sustainable initiatives and programs to address these shortfalls.
- Distributing an updated travel mode survey to all regular users. Collect data including residential postcodes to inform their origin.
- Consulting with regular users and the university to understand travel behaviours and any barriers and facilitators to shift to sustainable travel.
- Adjusting initiatives and targets based on the updated survey results and in response to any issues that may arise.

<b>D/O-WM</b>	<b>Waste Management</b>
<b>D/O-WM1</b>	Operational waste management measures will be incorporated in accordance with the Operational Waste Management Plan (OWMP), prepared by Elephants Foot Consulting, provided at <b>Appendix Y</b> .
<b>D/O-PW</b>	<b>Pedestrian Wind</b>
<b>D/O-PW1</b>	A variety of common wind mitigation measures will be explored throughout the detailed design stage including: <ul style="list-style-type: none"> <li>• Landscaping or local screening in selected locations.</li> <li>• An airlock-style entrance such as a revolving door</li> <li>• Large canopy</li> <li>• Podium</li> <li>• Arcade</li> <li>• Alcove</li> <li>• Façade profile and balconies</li> <li>• Use of canopies, trellises, and high canopy foliage (refer to <b>Appendix HH</b>).</li> </ul>
<b>D/O-SI</b>	<b>Social Impact</b>
<b>D/O-SI1</b>	The Proponent will provide a sustainable transport strategy, prioritising active and public transport and discouraging travel by private vehicle.
<b>D/O-SI2</b>	The Proponent will encourage public / active transport uptake through the implementation of a Green Travel Plan.
<b>D/O-SI3</b>	The Proponent will have a Welcome to Country and smoking ceremony before the start of test excavations and a smoking ceremony to close out once excavations are finished.
<b>D/O-BD</b>	<b>Biodiversity</b>
<b>D/O-BD1</b>	The Proponent will explore with the 'Saving our Species Program' (OEH 2024b), the feasibility / opportunity to reintroduce a population of the Green and Golden Bell Frog ( <i>Litoria aurea</i> ) into the proposed wetland habitat (Jila 2024) post development.
<b>Construction Management</b>	
<b>C/M-SW</b>	<b>Soils and Water</b>
<b>C/M-SW1</b>	Dilapidation surveys will be carried out on surrounding buildings, pavements and utilities that may be affected by construction works. These surveys will occur prior to commencement of any site works to document any existing defects so that any claims for damage due to construction related activities can be assessed.
<b>C/M-SW2</b>	The following procedure will be followed for site preparation and engineered filling for slab-on-ground footings and pavements at this site: <ul style="list-style-type: none"> <li>• Strip any organic topsoil and 'uncontrolled' fill down to stable natural subgrade;</li> <li>• Tyne the exposed subgrade and adjust the subgrade to optimum moisture content (OMC);</li> <li>• compact the moisture conditioned subgrade with at least six passes of a minimum 10-12-tonne deadweight roller, with a final test roll pass ('proof roll') accompanied by a careful visual inspection by a geotechnical engineer or senior geotechnician to ensure that any deleterious materials such as loose, wet or highly compressible soil and organic materials are identified for removal;</li> <li>• strip and remove the weak material and replace with select approved filling in the event that excessive movement is observed under passage of the roller;</li> </ul>

- place fill, if required, in near horizontal layers of maximum 200 mm loose thickness. Fill will be approved, homogeneous, free of organic or other deleterious material, and have a maximum particle size of 75 mm;
- compact each fill layer to at least 98% Standard maximum dry density ratio;
- maintain moisture contents for fill exhibiting clay-like properties in the range 2% dry to 2% wet of optimum moisture content for Standard compaction; and
- seal or cover any natural or compacted clay foundation soil, at or close to formation level, as soon as practicable, to reduce the opportunity for desiccation and cracking, or swelling and softening.

<b>C/M-SW3</b>	The existing fill material and alluvial silty clay will be screened to remove any deleterious and/or oversize material that may be present, then thoroughly mixed and moisture conditioned to within $\pm 2\%$ of its optimum moisture content. An experienced geotechnical engineer will inspect and approve any stripped and stockpiled spoil material proposed for reuse in an engineered fill prior to its incorporation.
<b>C/M-SW4</b>	Level 1 inspection and testing, as defined in Section 8 of AS 3798 – 2007 will be undertaken where structural loads are to be supported by fill.
<b>C/M-SW5</b>	A granular working platform will be considered to reduce potential lost time during or following wet weather.
<b>C/M-SW6</b>	If the neighbouring Co-Generation Building has footings founded at shallow levels, the maximum vector sum peak particle velocity (VSPPV) as per the Australian Standard AS 2187.2 – 1993 (Explosives Code) will be provisionally limited to 8 mm/s at the building line, unless the Proponent has more stringent vibration criteria for this building. Depending on the construction plant to be used, vibration monitoring at the Co-Generation Plant may be necessary for control of construction activities.
<b>C/M-SW7</b>	All excavated materials to be removed off-site will be disposed of in accordance with current EPA (2014) guidelines.
<b>C/M-SW8</b>	Groundwater will be handled using ‘sump-and-pump’ methods for seepage removal.
<b>C/M-SW9</b>	The discharge of any groundwater will be in accordance with the Protection of the Environment Operations Act 1997 (POEO Act). Any water discharged into the natural environment will comply with the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG, 2018).
<b>C/M-SW10</b>	Batter slopes for un-surcharged slopes above the groundwater table not higher than 2 m will be constructed no steeper than 1.5H:1V (horizontal:vertical) in the temporary case, and 2H:1V in the permanent case. If maintenance and vegetation of a permanent slope is required, then flatter 3H:1V batters will be constructed.
<b>C/M-SW11</b>	Shoring or retaining walls will be designed in accordance with the parameters identified in the Geotechnical Investigation prepared by Douglas Partners and provided in <b>Appendix L</b> . A triangular earth pressure distribution may be adopted on the rear of the wall.
<b>C/M-SW12</b>	The presence of uncontrolled fill over the site, all shallow footings will be founded below the existing fill. To support the design structural loadings for the proposed building, either a raft slab or conventional bored piles or piers will be used to access the required founding stratum at depth.
<b>C/M-SW13</b>	A raft slab foundation will be explored to support the structure but will not exceed a maximum contact pressure of 50 kPa. Additional investigation with cone penetration tests (CPTs) will also be considered.
<b>C/M-SW15</b>	If piles are to be found in the alluvium, further geotechnical analysis will be undertaken at the detailed design stage to determine appropriate pile lengths across the proposed building footprint to reduce the risk of excessive differential settlement.
<b>C/M-SW16</b>	Bored pile/ pier sockets will be inspected by an experienced geotechnical engineer during drilling to ensure the design parameters adopted are suitable for ground conditions and to ensure that there is no soft or loose material remaining at the base of the excavations.
<b>C/M-SW17</b>	CFA and screw piles will be certified by the piling contractor to confirm that the piles have reached a suitable depth, and that the material encountered is consistent with the design assumptions.
<b>C/M-SW18</b>	For rafts and ground slab, a minimum characteristic compressive strength ( $f_c'$ ) of 25 MPa, a minimum cover to reinforcement of 45 mm and a minimum continuous curing time of three days for a 50-year design life will be provided.
<b>C/M-SW19</b>	Reinforced concrete bored piles will have a minimum $f_c'$ of 32 MPa and a minimum cover to reinforcement of 60 mm to limit the corrosive effects of the surrounding soils for a 50-year design life.
<b>C/M-SW20</b>	Concrete ground slabs and footings will have a minimum compressive strength of 32 MPa with a minimum cover to reinforcement of 50 mm from unprotected ground near the southeastern

corner of the site, and concrete will be allowed to cure for a minimum of seven days to limit the corrosive effects of the surrounding soils.

<b>C/M-SW21</b>	A Salinity Management Plan may be required for the south-eastern corner of the site where moderately saline fill was encountered.
<b>C/M-SW22</b>	Detailed surface and subsurface drainage will be aimed at avoiding substantial wetting of the soils beneath building areas. Surface water will be directed away from building or hardstand areas and services trenches will be backfilled with compacted clay soil to avoid the trench acting as an inlet drain. Subsoil drains to at least 0.5 m below the subgrade level along the high side of all pavements and along all adjacent garden and lawn areas.
<b>C/M-SW23</b>	The planting of trees or shrubs will be avoided within 1.5 times the mature height of the tree.
<b>C/M-C</b>	<b>Contamination</b>
<b>C/M-C1</b>	The Contractor will undertake a formal waste classification either ex-situ (preferred), or alternatively and if limited by spatial / time constraints, in-situ (using test pits) following the removal of the overlying asphalt.
<b>C/M-C2</b>	The Contractor will prepare and implement an Unexpected Finds Protocol (UFP) which outlines appropriate response procedures to be undertaken by the development contractor in the event suspected contamination (e.g., asbestos) is encountered during the redevelopment of the site.
<b>C/M-C3</b>	If there are changes to the proposed development (e.g., a change in basement levels or site usage), the Detailed Site Investigation will be updated, taking into account any changes in proposed land use, proposed design (i.e., basement levels), and proposed excavations for the construction of the building or results of subsequent waste classification testing.
<b>C/M-C4</b>	Further assessment of the soils will be undertaken for the presence of ash (or other related wastes, e.g., charcoal) to review the suitability of assessing the detected PAH concentrations under a NSW EPA immobilisation order.
<b>C/M-C5</b>	Further inspection / testing following removal of overburden will be required to classify the materials as VENM.
<b>C/M-BD</b>	<b>Biodiversity</b>
<b>C/M-BD1</b>	Prior to construction, a qualified and experienced Ecologist (>3 years of experience) with a minimum tertiary degree in science, conservation, biology, ecology, natural resource management, environmental science or environmental management will be engaged. The Ecologist will be licensed with a current Department of Primary Industries Animal Research Authority permit and New South Wales Scientific License issued under the BC Act. The Ecologist will be a member of the NSW Ecological Consultants Association.
<b>C/M-BD2</b>	All trees to be retained will be protected in accordance with Australian Standard - Protection of Trees on Development Sites (AS-4970-2009), which outlines that a Tree Protection Zone (TPZ) is the principal means of protecting trees on development sites. It is an area isolated from construction disturbance so that the tree remains viable. Works will be avoided within the TPZ of any trees located outside of the development site that require retention. This includes trees on neighbouring properties. TPZ will be protected as per instructions of the Tree Protection Plan (Tree Survey 2024). Tree protection fencing will be installed prior to site establishment and remain intact until the completion of works as per Tree Protection Plan (Tree Survey 2024).
<b>C/M-BD3</b>	Project Ecologist will undertake a pre-clearing survey of the Subject Land, identifying any threatened species and/or nests. All felling of native trees will be supervised by an Ecologist who will be available on site to capture, treat/relocate any displaced fauna. If any threatened species are identified, the Project Ecologist will be consulted to determine the best course of action, including potential translocations.
<b>C/M-BD4</b>	Appropriate erosion and sediment control will be erected and maintained during construction. At minimum such measures will comply with the relevant industry guidelines such as 'the Blue Book' (Landcom 2004).
<b>C/M-BD5</b>	The construction site compound as well as all construction storage, stockpile and laydown areas will be located within the project disturbance area i.e. away from any native vegetation that is planned to be retained. Any soil imported from outside the site, if required, will be free of weeds.
<b>C/M-BD6</b>	Appropriate light, noise and dust suppression methods will be implemented to reduce their impact on surrounding flora and fauna. Construction works will be limited to daylight hours.
<b>C/M-BD7</b>	If during the construction of the proposed development, the Project Ecologist finds that a species listed under the EPBC Act or a species at risk of an SAIL has the potential to be significantly impacted, works will cease until the Project Ecologist advises on a suitable approach. This may require a referral to the Commonwealth to determine whether the proposed development will need formal assessment and approval under the EPBC Act.
<b>C/M-ACH</b>	<b>Aboriginal Cultural Heritage</b>

<b>C/M-ACHI</b>	All workers involved in works will undergo an Aboriginal heritage induction, as part of the standard worksite induction. The induction will outline the responsibilities of all workers under the NPW Act, examples of Aboriginal objects and details of the Unexpected Finds Procedure to be implemented for all works.
<b>C/M-ACH2</b>	Following completion of archaeological investigation within the study area, a post-excavation report detailing the results of the Aboriginal archaeological investigation works would be prepared and submitted to Heritage NSW, consistent with best practice for preparation of post-excavation reporting, as per the requirements of the Code of Practice and any relevant conditions of an approved SSDA. The report would be provided to all project RAPs for their information.
<b>C/M-ACH3</b>	Once the site has been signed off and all archaeological testing and/or salvage works have been completed, if the discovery of an archaeological feature that is suspected to be Aboriginal cultural material in nature (excluding human remains- see Recommendation 4 below), the following procedure will be followed: <ul style="list-style-type: none"> <li>• Cease works in the immediate vicinity of the find.</li> <li>• Contact the Project archaeologist to verify the nature of the find.</li> <li>• If Unexpected Find is confirmed as Aboriginal archaeology, Project archaeologist will notify Project RAPs and DPHI of the find. If Unexpected Find is confirmed as not Aboriginal in origin, Project archaeologist will provide advice for works to recommence.</li> <li>• Project Archaeologist/Project RAPs will undertake a preliminary assessment and recording of the find.</li> <li>• Formulate archaeological or heritage management plan- specific to nature of the find.</li> <li>• Implement archaeological/heritage management plan.</li> <li>• Works may commence once archaeological/heritage management plan has been successfully implemented and Project archaeologist provides sign off to contractor for works to resume in vicinity of find.</li> </ul>
<b>C/M-ACH4</b>	The unexpected discovery of any potential skeletal remains during development works will be managed in accordance with the approved Heritage NSW protocol for the discovery of human remains which is stated as: If any suspected human remains are discovered and/or harmed the Proponent will: <ul style="list-style-type: none"> <li>• Not further harm these remains.</li> <li>• Immediately cease all work at the particular location.</li> <li>• Secure the area so as to avoid further harm to the remains.</li> <li>• Notify the local police and OEH's Environment Line on 131 555 as soon as practicable and provide any available details of the remains and their location.</li> <li>• Not recommence any work at the particular location unless authorised in writing by Heritage NSW.</li> </ul>
<b>C/M-ARCH</b>	<b>Archaeological Heritage</b>
<b>C/M-ARCH1</b>	An Archaeological Research Design and Excavation Methodology (ARD +EM) will be developed and submitted to Department of Planning and referred to Heritage NSW for approval to guide the works. The ARD will contain an excavation methodology (i.e. test trenches, open area excavation, monitoring or a combination of techniques), nominate an historical archaeological Excavation Director, identify Research Design questions, and provide recommendations for post-excavation reporting and management of the artefacts recovered from the works.
<b>C/M-ARCH2</b>	An archaeological test excavation trench will be excavated in the area of archaeological sensitivity, focused on the location of the culvert, drainage line and pond. An additional targeted, 2-3 sample test trenches using machine excavation, to test the integrity, intactness and extent of any potential early phases of site use will be undertaken prior to bulk excavation works in areas identified as having potential to contain relics of local or State significance, in order to confirm the predicted intactness of the archaeological resource. The test excavation will be guided by the ARD + EM and in consultation with Heritage NSW.
<b>C/M-ARCH3</b>	All ground disturbing works will be subject to archaeological monitoring to identify any ephemeral archaeological features that may be impacted during works.
<b>C/M-ARCH4</b>	An Unexpected Finds and Stop Works Procedure will be developed and implemented for all other works within the study area.
<b>C/M-NV</b>	<b>Noise and Vibration</b>
<b>CM-NV1</b>	The indicative safe distances set out within the Noise and Vibration Assessment included at <b>Appendix JJ</b> will be maintained. These indicative safe distances will be validated prior to the start of

construction works by undertaking measurements of vibration levels generated by construction and demolition equipment to be used on site.

<b>CM-NV2</b>	Prior to the issue of a Construction Certificate (CC), a further detailed review will be undertaken (including additional noise measurements) to verify if future noise levels have increased resulting in a higher performing façade system.
<b>CM-NV3</b>	The Contractor will prepare a Construction Noise Vibration Management Plan (CNVMP).
<b>CM-NV4</b>	Should the project be awarded approval, a site-specific Construction Noise Management Sub-Plan (CNVMSP) will be prepared in conjunction with the client, managing contractor and other relevant design team members to further assess the impacts however more importantly determine the exact noise and vibration mitigation measures that are to be implemented.
<b>CM-NV5</b>	The works will be undertaken in accordance with the Communications and Stakeholder Engagement Strategy set out in the Noise and Vibration Assessment prepared by Pulse White Noise Acoustics Pty Ltd (refer to <b>Appendix JJ</b> ).
<b>CM-NV6</b>	A detailed acoustic review of all building services will be undertaken prior to installation once final selections are made to ensure compliance.
<b>CM-NV7</b>	Acoustic mitigation measures will be formulated during the detailed design phase once plant selections are made.
<b>CM-VI</b>	<b>Visual Impact</b>
<b>CM-VI1</b>	The Indigenous Centre of Excellence will be constructed in accordance with the primary mitigation measures incorporated into the design development, as highlighted in the Visual Impact Assessment, provided at <b>Appendix GG</b> .
<b>CM-CDW</b>	<b>Construction and Demolition Waste</b>
<b>CM-CDW1</b>	The Construction Contractor will implement the Waste Management Plan during the construction phase of development (refer to <b>Appendix X</b> ).
<b>CM-CT</b>	<b>Construction traffic</b>
<b>C/M-CT1</b>	Appropriate hoarding or fencing will be provided at construction site boundary.
<b>C/M-CT2</b>	Construction traffic movements will be scheduled outside peak periods where possible. However, some movements may be necessary from time to time such as for significant concrete pours which cannot be interrupted. Therefore, additional measures for minimisation and management of these impacts may be required and would be determined in advance based on the nature of the event.
<b>C/M-CT3</b>	A Construction Worker Transport Strategy will be prepared and implemented by the Contractor to encourage alternate transport modes, and reductions in car usage by construction workers, to minimise demand for on-street car parking.
<b>C/M-CT4</b>	A detailed swept path analysis will be conducted to ensure sufficient manoeuvring clearance. Structural capacity of nearby local roads will also be investigated and exclude such roads from construction vehicle routes should any roads are incapacitated for oversized trucks.
<b>C/M-CT5</b>	Sufficient communication measures are to be implemented to ensure nearby neighbours are well-informed of any project updates.
<b>C/M-CT6</b>	During days of high estimated vehicle movements, communication between the site and incoming vehicles will be maintained to stagger the arrival of vehicles, in order for them to be accommodated within the worksite and to minimise traffic disruptions.
<b>C/M-CT7</b>	Loading and unloading activities will occur within the site, at the nominated vehicle zones, or within any approved Works Zone. Truck movements to and from the site will be scheduled outside peak hours where possible to reduce impacts to the local and state road network. All deliveries are to be made within the approved work hours.
<b>C/M-CT8</b>	Non-tonal reversing beepers (or an equivalent mechanism) will be fitted and used on all construction vehicles and mobile plants regularly used on-site (i.e., greater than one day) and for any out of hours work.
<b>C/M-CT9</b>	All construction vehicles will travel on the main road network (such as motorways and arterial roads) as far as practical, except where strictly required to reach the construction site.

**C/M-CT10** A detailed Construction Traffic Management Plan will be prepared by the appointed contractor prior to construction, documenting the construction duration of each stage along with their respective traffic arrangements and details.

**C/M-IU** *Infrastructure and Utilities*

**C/M-IU1** The Proponent will undertake the necessary augmentation works as specified within the Utility Statement prepared by Steensen Varming (refer to **Appendix O**) and the supporting letter to the Sydney Water Corporation prepared by Warren Smith Consulting Engineers (refer to **Appendix P**).

**C/M-IU2** An application will be made to request an additional Wastewater (Sewer drainage) connection to the DN225 SWC asset within the project area.

**C/M-SI** *Social Impact*

**C/M-SI1** A green travel plan will be prepared for the construction and operational stages of the project to reduce the use of private vehicles.

**C/M-SI2** A construction traffic management plan will be required prior to works commencing. The plan will recommend measures to divert construction traffic from local streets and limit the impact of construction workforce parking in nearby residential streets.

**C/M-SI3** A noise and vibration assessment will be prepared prior to works commencing that introduces measures to minimise construction noise for surrounding residents and minimise the impacts of construction noise on WSU students and staff, particularly during examinations of other events.

**C/M-SI4** The Proponent will ensure ongoing engagement with First Nations stakeholders.

**C/M-SI5** The Contractor will prepare and implement a Construction Worker Transport Strategy to encourage alternate transport modes, and reductions in car usage by construction workers, to minimise demand for on-street car parking.

**C/M-SI6** The Contractor will communicate with any sensitive receivers prior to any potential high noise or significant dust making activities to advise of the pending activity and assist with appropriate noise and dust reduction measures.

**C/M-SI7** The Contractor will include the addition and use of air quality monitors, as required.

**C/M-SI8** The Contractor will conduct ongoing noise monitoring to confirm measured levels are consistent with predictions in the acoustic assessment, and to verify that the mitigation procedures are appropriate for the affected receivers.

**C/M-SI9** The Contractor will provide offers of respite to stakeholders subjected to an ongoing noise impact where required.

**C/M-SI10** Where required, the Contractor will consider alternative construction options that achieve compliance with relevant criteria.

**C/M-SI11** The Contractor will maximise the offset distance between plant items and nearby noise sensitive receivers.

**C/M-SI12** The Contractor will prevent noisy plant working simultaneously and adjacent to sensitive receivers.

**C/M-SI13** The Contractor will minimise consecutive works in the same site area.

**C/M-SI14** The Contractor will orient equipment away from noise sensitive areas.

**C/M-SI15** The Contractor will carry out loading and unloading away from noise sensitive areas.

**C/M-SI16** The Contractor will develop an issues register for ease of documentation of concerns throughout the construction and transition process to ensure that issues are addressed timely and adequately.

**C/M-SI17** The Proponent will continue the frequent distribute project information to First Nations stakeholders during the construction stage emphasising participation in detailed design stages.

**C/M-SI18** The development will add more trees around the lone melaleuca tree in the centre of the car park.

**C/M-SI19** The Proponent will hold a Welcome to Country and smoking ceremony before the start of test excavations, and a smoking ceremony to close out once excavations are finished.

**C/M-SI20** The Contractor will have both male and female RAPs present on site in the case that either men's or women's business artefacts/archaeological features are identified.

<b>C/M-FI</b>	<b>Flood</b>
<b>C/M-FI1</b>	The Contractor will minimise disturbance and harm to the area via use of a sediment control and erosion plan, to be implemented prior to the construction phase of the project.
<b>C/M-FI2</b>	The Proponent will follow the flood emergency response procedure for the ICoE as set out in the Flood Impact Assessment prepared by GRC Hydro, provided at <b>Appendix K</b> .
<b>C/M-FI3</b>	The proposed development will have a finished floor level of 9.0m AHD.
<b>C/M-FI4</b>	The development will: <ul style="list-style-type: none"> <li>maintain or rehabilitate a Riparian Corridor (RC)/Vegetated Riparian Zone (VRZ) with fully structured native vegetation in accordance with Table 1 Controlled activities – Guidelines for riparian corridors on waterfront land Department of Planning and Environment 4</li> <li>minimise disturbance and harm to the recommended RC/VRZ</li> <li>minimise the number of creek crossings and provide perimeter road separating development from the RC/VRZ</li> <li>locate services and infrastructure outside of the RC/VRZ. Within the RC/VRZ provide multiple service easements and/or utilise road crossings where possible</li> <li>treat stormwater run-off before discharging into the RC/VRZ.</li> </ul>
<b>C/M-TP</b>	<b>Tree Protection</b>
<b>C/M-TP1</b>	All tree removal work will be carried out by an arborist with a minimum AQF Level 3 qualification in Arboriculture, in accordance with Australian Standard AS4373-2007, Pruning of Amenity Trees (AS4373), the Work Health and Safety Act 2011, and Work Health and Safety Regulations 2017.
<b>C/M-TP2</b>	Minor vegetation trimming will be required to accommodate construction clearances. Standard pruning specifications are outlined below: <ul style="list-style-type: none"> <li>Pruning will not exceed 10% of the overall canopy volume.</li> <li>No limbs greater than 150mm in diameter will be removed.</li> <li>The final pruning cut will be at the branch collar or growth point in accordance with AS4373.</li> <li>All tree pruning work will be carried out by an arborist with a minimum AQF Level 3 qualification in Arboriculture, in accordance with AS4373 and the NSW WorkCover Code of Practice for the Amenity Tree Industry (1998).</li> </ul>
<b>C/M-TP3</b>	Tree protection fencing will be established at the locations shown in the Tree Protection Plan, provided at <b>Appendix N</b> . Tree protection fencing must be installed prior to site establishment and remain intact until the completion of works. Once erected, protective fencing must not be removed or altered without the approval of the project arborist.
<b>C/M-TP4</b>	Certain activities are excluded from the identified Tree Protection Zone, as shown in Appendix X, including, but not limited to; machine excavation and trenching, ripping or cultivation of the soil, storage of building materials, waste, and waste receptacles, disposal of waste materials and chemicals, including paint, solvents, cement slurry, fuel, oil, and other toxic liquids, movement and storage of plant, equipment, and vehicles, soil level changes, including the placement of fill material, mechanical removal of vegetation, affixing of signage or hoardings to trees, other physical damage to the trunk or root system, and any other activity that is likely to cause damage to the tree.
<b>C/M-TP5</b>	Where the provision of tree protection fencing is impractical or must be temporarily removed, trunk protection will be installed to avoid accidental mechanical damage.
<b>C/M-TP6</b>	Ground protection will be installed if temporary access for vehicle, plant or machinery is required within the Tree Protection Zone. Where possible, areas of the existing pavement will be used as ground protection.
<b>C/M-TP7</b>	Demolition works within Tree Protection Zone will be supervised by the Project Arborist. Any demolition machinery will operate from inside the footprint of the existing structures or outside the Tree Protection Zone, to minimise soil disturbance and compaction. Where this is not possible outside the Tree Protection Zone of trees to be retained, ground protection will be required. The demolition will be undertaken inwards into the footprint of the existing structures.

<b>C/M-TP8</b>	All excavations and root pruning work will be undertaken in accordance with Australian Standard 4373: Pruning of Amenity Trees (2007) and Australian Standard 4970: Protection of Trees on Development Sites.
<b>C/M-TP9</b>	All excavations (including root investigations) within the Tree Protection Zone will be carried out using tree-sensitive methods under the supervision of the project arborist.
<b>C/M-TP10</b>	Manual excavation, air spade, or hydro-vacuum will be utilised excavation lines within the Tree Protection Zone prior to the commencement of mechanical excavation. Excavation will be a depth of 1 metre (or to unfavourable root growth conditions such as bedrock or heavy clay, if agreed by the project arborist). Any conflicting roots will be pruned using clean, sharp secateurs or a pruning saw to ensure a clean cut, free from tears. All root pruning will be documented and carried out by the project arborist. After all root pruning is completed, machine excavation is permitted within the footprint of the structure.
<b>C/M-TP11</b>	Manual excavation, air spade, or hydro-vacuum will be utilised at the location of pier footings within the Tree Protection Zone. Any conflicting roots will be pruned using clean, sharp secateurs or a pruning saw to ensure a clean cut, free from tears. All root pruning will be documented and carried out by the project arborist. After all root pruning is completed, machine excavation is permitted within the footprint of the structure.
<b>C/M-TP12</b>	Underground services will be installed using tree-sensitive excavation methods if required within the Tree Protection Zone, under the supervision of the project arborist. Alternatively, boring methods such as horizontal directional drilling (HDD) may be used for underground service installation, providing the installation is at a minimum depth of 800mm below grade. Excavations for entry/exit pits must be located outside the Tree Protection Zone.
<b>C/M-TP13</b>	Any conflicting roots greater than 50mm in diameter identified during the supervised excavations shall be pruned using clean, sharp secateurs or a pruning saw to ensure a clean cut, free from tears. All root pruning (>50mm) must be documented and carried out by the project arborist.