

# Gillieston Public School redevelopment and new public preschool

# SUSTAINABLE DEVELOPMENT PLAN (SDP) – PHASE 3 SCHEMATIC DESIGN

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Sustainable Development Plan (SDP) – Phase 3 Schematic Design

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# **GLOSSARY**

#### **Abbreviations**

Term	Definition
EFSG	Educational Facilities Standards and Guidelines (NSW Department of Education school design guide)
EPD	Environmental Product Declaration
ESD	Environmentally Sustainable Development
ESG	Environmental, Social and Governance
GBCA	Green Building Council of Australia (Administer the Green Star buildings ratings system)
GHG	Greenhouse Gas
GREP	Government Resource Efficiency Policy (mandated policy for NSW Government agencies)
NCC	National Construction Code
SINSW	School Infrastructure NSW (NSW Department of Education directorate)



### **Executive Summary**

Arcadis was engaged by School Infrastructure NSW (SINSW) to develop a Sustainable Development Plan (SDP) for Gillieston Public School (formerly known as Maitland Public School). This SDP outlines key sustainability opportunities and sets clear sustainability targets in accordance with SINSW's requirements. The SDP has been prepared in line with the Department of Education's Educational Facilities Standards and Guidelines (EFSG), the Green Star Buildings Rating System, and the SINSW Design Framework for Sustainability. This report has also been prepared to respond to REF and other planning requirements.

In developing the SDP, the Arcadis sustainability team has been collaborating closely with designers and other consultants during the master planning, concept design and schematic design phases. This collaboration was essential to integrate sustainability early in the design process and identify potential opportunities to meet the sustainability targets established by SINSW. The SDP includes an ESD Schedule which defines the design and construction evidence requirements necessary to achieve the sustainability goals and will guide the implementation of sustainability measures throughout the activity process.

A critical aspect of the SDP is the requirement to achieve a minimum 4-star Green Star rating for schools located outside of Sydney, Wollongong, and Newcastle. Given that Gillieston Public School is situated outside these prescribed LGAs, it must attain at least this 4-star rating. We have prepared a preliminary Green Star scorecard that currently achieves 35 points, meeting the minimum score required for a 4-star rating with additional buffer points to ensure the required rating level is maintained. Table 1 presents a summary of the points breakdown.

Environmental Category	Points Available	4 star
RESPONSIBLE	17	5
HEALTHY	14	8
RESILIENT	8	2
POSITIVE	30	11
PLACES	8	3
PEOPLE	9	6
NATURE	14	0
SUB-TOTAL POINTS	100	35
LEADERSHIP	5	0
TOTAL SCORE	105	35

#### Table 1 - Green Star point summary

This SDP will evolve into a Sustainable Development Report (SDR) post-construction, capturing the final sustainability outcomes and ensuring that all ESD measures have been effectively implemented to meet the project's sustainability targets.



# 1 Background

#### 1.1 Introduction

Arcadis has been engaged to develop a Sustainable Development Plan (SDP) for Gillieston Public School, located in Gillieston Heights, NSW, as part of the Phase 3 Schematic Design works. The purpose of this report is to identify key sustainability opportunities and address the sustainability objectives outlined by SINSW. The Schematic Design, prepared by SHAC Architects, aligns with SINSW's requirements and is supported by the preliminary Green Star scorecard (**Appendix A**) and the ESD Schedule (**Appendix B**).

#### 1.2 Activity

The Gillieston Public School redevelopment and new public preschool have been identified by the NSW Department of Education (DoE) as requiring redevelopment. The Gillieston Public School redevelopment and new public preschool is driven by service need including increase in expected student enrolments and the and removing demountable structure and replacement with permanent teaching spaces.

The Gillieston Public School redevelopment and new public preschool comprises the following activity:

- Demolition and removal of existing temporary structures.
- Site preparation activity, including demolition, earthworks, tree removal.
- Construction of new:
  - 32 permanent general learning spaces and 3 support teaching spaces
  - Administration and staff hubs
  - o Hall, canteen and library
  - Out of school hours care
  - o Public preschool (standalone building for 60 places)
  - Covered Outdoor Learning Areas (COLAs)
  - o Outdoor play areas, including games courts and yarning circle
  - New at-grade car parking
  - o Extension of the existing drop-off / pick-up area and new bus bay
  - Realignment of the existing fencing
  - Associated stormwater infrastructure upgrades
  - Associated landscaping
  - o Associated pedestrian and road upgrade activity

#### 1.3 Significance of Environmental Impacts

Based on the identification of potential impacts and an assessment of the nature and extent of the impacts of the proposed activity, it is determined that all potential impacts can be appropriately mitigated to ensure that there is minimal impact on the locality, community and/or the environment.

#### 1.4 Site Description

The Site is identified as 100 Ryans Road and 19 Northview Street, Gillieston Heights, legally described as Lot 51 DP 1162489 and Lot 2 DP1308605. The Site is located within the Maitland Local Government Area (LGA) and is zoned RU2 Rural Landscape and R1 General Residential zone under the provisions of the Maitland Local Environmental Plan 2011 (MLEP2011).

Existing attributes of the subject site are noted as follows:



- The subject site exhibits an area of approximately 23,385m<sup>2</sup> and is located in the suburb of Gillieston Heights;
- The subject site has a frontage to Ryans Road to the east, Gillieston Road to the north, and Northview Street to the south;
- In its existing state, the subject site comprises the existing Gillieston Public School. Existing school buildings are primarily located in the west portion of the subject site with a large area of open space situated in the eastern portion. There are limited permanent structures located on the subject site with thirteen (13) existing demountable classrooms currently occupying the subject site. Permanent buildings consist of the Main Administration Building, Original Brick Cottage, Library and GLS building located in the centre of the subject site; and
- Carparking is provided from Gillieston Road for staff. Pedestrian access is available via this main entrance from Gillieston Road and via a separate pedestrian-only access gates on Northview Street and Ryans Road.



The existing site context is shown in Figure 1 and Figure 2 below.

Figure 1 – Cadastral Map (Source: NSW Spatial Viewer, 2024)





Figure 2 – Site Aerial Map (Source: Near Map, 2024)

#### 1.5 Reference Documents

This report has been prepared based on the information and drawings shown below:

- Architectural drawings produced by SHAC Architects, dated 14/10/2024 (to be updated with the latest copy at the time of lodgement)
- Mechanical and Electrical Schematic Design report and drawings dated 17/10/2024
- Green Star Buildings v1 Submission Guidelines Rev C, dated 18/10/2023
- NSW Sustainable Buildings SEPP Technical Note, dated September 2023
- NCC 2022 Section J Energy Efficiency



# **2 Project Response to Planning Requirements**

The project must meet the relevant planning and environmental requirements in accordance with the principles of Ecologically Sustainable Development (ESD). The table below outlines the applicable requirements and where the project responses can be found.

Criteria	Relevant Section/Report	Response
Identify how ESD principles (as defined in clause 7(4) of Schedule 2 of the EP&A Regulation) are to be incorporated in the design and ongoing operation of the development.	Refer to Section 3.1	Refer to Section 3.1
Outline how the development will meet or exceed the relevant industry recognised building sustainability and environmental performance standards and integrate environmental design strategies in accordance with the Environmental Design in Schools Manual.	Section 4 Appendix A	The project is committed to targeting a 4 Star Green Star Buildings v1 rating which is an industry recognised building sustainability tool. Passive design - Passive design measures will be implemented such that the building design demonstrates reduced heating and cooling loads when compared to the standard DTS building to maintain indoor thermal comfort. Energy efficiency – 10% reduction in energy consumption is targeted as a minimum. Moreover a solar array will be provided to reduce the operational energy further.
Outline how the development minimises greenhouse gas emissions (reflecting the Government's goal of net zero emissions by 2050) and consumption of energy, water (including water sensitive urban design) and material resources	Section 4.3 Net Zero Statement	In order to maximise the overall energy efficiency of the site, demand must first be reduced, then systems must be designed in the most efficient manner. On-site renewable energy will be sized to meet the energy generation on site, as much as practicable. The building fabric has been carefully designed using a combination of solid elements and glazing. Shading devices, overhangs and screens all serve to control heat gains through the façade in summer whilst maintaining good daylight and views An energy metering and monitoring system will be incorporated to measure and monitor the main energy uses within the development.
<ul> <li>Where Chapter 3 of the SEPP (Sustainable Buildings) 2022 applies:</li> <li>demonstrate how the development has been designed to address the provisions set out in Chapter 3.2(1).</li> </ul>	Refer to Section 2.2	Refer to Section 2.2



Criteria	Relevant Section/Report	Response
<ul> <li>provide a NABERS Embodied Emissions Material Form to disclose the amount of embodied emissions attributable to the development in accordance with section 35B of the EP&amp;A Regulation.</li> </ul>	NABERS Embodied Emissions Report	The project has completed a NABERS Embodied Emissions Material Form based on the Cost plan provided by the Quantity Surveyor.
<ul> <li>provide a net zero statement (as defined in section 35C of the EP&amp;A Regulation) that includes</li> <li>evidence of how the development will either be fossil fuel-free after the occupation of the development commences or transition to be fossil fuel-free by 1 January 2035.</li> <li>details of any renewable energy generation and storage infrastructure implemented an any passive and technical design features that minimise energy consumption.</li> <li>estimations of annual energy consumption for the building and amount of emissions relating to energy use in the building (if information is available).</li> </ul>	Net Zero Statement	The project has completed a Net Zero Statement which was certified by an engineer.

#### 2.1 Environmental Planning and Assessment Regulation – Clause 7(4)

#### • The Precautionary Principle

Serious or irreversible damage to the environment is being avoided by previously developed land for the site. A thorough site investigation was also conducted at early project phase to ensure that there are no serious and irreversible environmental impacts. The design principles within the Green Star Buildings tool are being applied to this site which will ensure that the risk of environmental damage is very low. An Environmental Management Plan is to be developed by the Head Contractor for the project to implement measures during construction to minimise impacts on the environment.

#### • Inter-Generational Equity

The Project will maintain the health, diversity and productivity of the environment for future generations by minimising the consumption of energy and water, and waste generation. **Section 4** outlines the initiatives to be implemented.

#### Conservation of biological diversity and ecological integrity

The activity will be designed to ensure biological diversity and ecological value is improved for the site via careful landscape design. Special emphasis will be placed on the introduction of a diverse range of landscaping.



#### • Improved valuation, pricing and incentive mechanisms

The project will include a number of measures to internalise pollution and consider the life cycle cost of systems. Per the EFSG, all design considerations must take into account whole of life, including maintenance, access, quality, life span, future improvements and sustainability. An EMS will be in place throughout construction to ensure that pollution is prevented, and waste is minimised through effective waste stream handling, collection and recycling.

#### 2.2 NSW SEPP (Sustainable Buildings) 2022 – Chapter 3.2 (1)

The minimisation of waste from associated demolition and construction, including by the choice and reuse of building materials
 During construction, the based contractors will sum to minimize weste consecuted with construction

During construction, the head contractors will aum to minimise waste associated with construction and demolition and will plan to target at least 80% of the construction and demolition waste from landfill.

• A reduction in peak demand for electricity, including through the use of energy efficient technology

Energy efficient strategies and technologies will be used in building services systems to reduce energy consumption and manage the operational demands on the systems

- A reduction in the reliance on artificial lighting and mechanical heating and cooling through passive design Passive design measures such as efficient building fabric with thermal mass, well oriented shading systems, high performing glazing are included in the buildings design.
- The generation and storage of renewable energy Rooftop photovoltaics are included in the buildings design.
- The metering and monitoring of energy consumption Energy monitoring system will be installed to report on energy and water uses.
- The minimisation of the consumption of potable water. Energy monitoring system will be installed to report on energy and water uses.



# **3 Other Sustainability Drivers**

SINSW promotes the benefits of incorporating sustainable development concepts and approaches into building design, construction, and operation to meet current and future accommodation requirements. This commitment is guided by a range of guidelines and state regulations, including:

#### Education Facilities Standards and Guidelines (EFSG)

EFSG is as a comprehensive resource for planning, designing, and operating school facilities within the NSW Department of Education. SINSW takes a clear stance on environmentally sustainable development and outlines key sustainability principles within the EFSG and aligns with current Australian best practices. The EFSG sets essential standards for schools, emphasizing their role in creating eco-friendly and forward-looking educational environments. This has been captured in the ESD Schedule.

#### NSW Government Resource Efficiency Policy (GREP)

The NSW Government Resource Efficiency Policy (GREP) is a comprehensive strategy designed to align state projects with sustainability objectives, which all SINSW projects must comply with. GREP focuses on enhancing resource efficiency within NSW Government agencies, specifically targeting three key areas: energy, water, and waste management. Additionally, the policy aims to mitigate harmful air emissions resulting from government operations. By addressing the rising costs of energy, water, clean air, and waste management, GREP enables government agencies to leverage their purchasing power to promote the adoption of resource-efficient technologies and services. It also sets a strong example by embedding resource efficiency into decision-making processes.

#### **Green Star Buildings**

The Green Star Buildings Framework is a comprehensive rating system and certification program designed to assess and promote the sustainability of buildings and construction projects, primarily in Australia. It provides guidelines and performance criteria across various categories, including energy efficiency, water usage, indoor environmental quality, materials, and innovation, to evaluate a building's environmental performance. This framework encourages the integration of sustainable practices and technologies into building design and construction, fostering environmentally friendly and energy-efficient structures. In line with GREP requirements, Gillieston Public School must achieve a minimum 4-star Green Star rating as it is outside the Sydney, Wollongong, and Newcastle regions. Details of the scorecard can be found in **Appendix A**.

#### NSW Sustainable Buildings SEPP

The NSW Sustainable Buildings State Environmental Planning Policies aims to simplify, measure and report the way buildings are planned and designed in NSW. Sustainable Buildings SEPP was introduced to measure the performance of new buildings in NSW and to ensure that new buildings are in alignment with the Net Zero commitments set by the state government.

As per the requirements outlined in NSW Sustainable Buildings SEPP, all new commercial buildings>1,000 m<sup>2</sup> should measure and report on the embodied emissions for the building. Furthermore, all State Significant developments, such as educational buildings must produce a Net Zero Statement to show the developments does not use fossil fuels or can transition by 2035 in alignment with NSW government's net zero ambitions. Gillieston Public School meets the above criteria and must prepare a Embodied emissions report and Net Zero Statement as part of Design Development. (separate documents provided)



#### City of Maitland – Environmental Sustainability Strategy

The City of Maitland's sustainability objectives focus on enhancing environmental quality, promoting economic resilience, and fostering social equity. Key goals include reducing greenhouse gas emissions and improving energy efficiency through initiatives such as increased use of renewable energy sources and retrofitting buildings. The city aims to promote sustainable transportation by developing bike-friendly infrastructure and supporting public transit.

Maitland is committed to waste management and resource conservation, emphasizing recycling programs and reducing landfill dependency. Water conservation is also a priority, with efforts to improve water efficiency and manage stormwater sustainably.

Additionally, the city seeks to create green spaces and improve urban biodiversity, contributing to residents' quality of life and ecological health. Socially, Maitland aims to ensure equitable access to sustainability initiatives, engaging communities in environmental programs and promoting inclusive practices.

Economic sustainability is supported through fostering green jobs and supporting local businesses that align with environmental goals. Overall, Maitland's approach integrates environmental stewardship with economic and social development, striving for a balanced, resilient, and inclusive city for the future.



# **4 Proposed Sustainable Design Initiatives**

Arcadis has identified potential sustainability opportunities based on key environmental criteria, aligning with the preliminary Green Star scorecard, relevant EFSG guidelines, and SINSW's overarching sustainability goals. These opportunities were initially developed during the Concept Design phase and have been updated and reviewed during the Schematic Design phase. As the project progresses into Detailed Design, these initiatives will be further refined and updated to ensure they continue to meet the project's evolving sustainability targets.

A summary of the initiatives is provided below, with further details on timing, evidence, and responsibilities outlined in the ESD schedule in **Appendix B**.

#### 4.1 Indoor Environment Quality

Initiative	Description	Green Star Credit	SINSW Sustainability Strategy Priority	EFSG Criteria
Use of Low VOC paints	Use low emissions paints of all internal flat and low-sheen areas, and water- based paints for all internal, gloss or semi-gloss finishes	Healthy – Exposure to Toxins (Credit 13)	Unlock Human Potential	DG 2.5.2 - Low VOC
Passive Design Solution – Optimising Building Insulation	Install optimum insulation in new/existing building fabric where possible i.e., floors or internal walls to improve energy efficiency and thermal comfort in all occupied spaces	Positive – Energy Use (Credit 22)	Act on Climate Change	DG 55 – Thermal Comfort and Indoor Air Quality Performance
Passive Design Solution – Improved Glazing	Replacing existing glazing with improved glazing i.e., low-e, double glazed systems to improve thermal comfort, energy efficiency and sealing.	Positive – Energy Use (Credit 22)	Act on Climate Change	DG 55 – Thermal Comfort and Indoor Air Quality Performance
Thermal Comfort	Predicted Mean Vote between +1 and -1 or all occupied areas	-	Unlock Human Potential	DG 55 – Thermal Comfort and Indoor Air Quality Performance
Passive Design - Ventilation	Incorporate natural ventilation in buildings, and artificial ventilation for spaces which	Healthy – Clean Air (Credit 10)	Unlock Human Potential	DG 57 - Thermal Comfort and Indoor Air Quality Performance



cannot be ventilated naturally.			
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#### 4.2 Water

Initiative	Description	Green Star Credit	SINSW Sustainability Strategy Priority	EFSG Criteria
Reduced potable water usage	Reduced potable water usage by using rainwater for irrigation.	Reducing Water Use (Credit	Act on Climate Change	DG 53 - Water
Low water use in landscaping	Use of Australian native plants and low water species plants for landscaping.	Nature – Biodiversity Enhancement (Credit 36)	Act on Climate Change	-
Water efficient fixtures	All fixtures and water-using appliances installed within the project's scope must, at a minimum, meet the prescribed WELS ratings. 4.0 star rated toilets, 5.0 star rated Kitchen Taps, 6.0 star bathroom taps	Positive – Water Use (Credit 25)	Consume Responsibly	DG 53 - Water

As per SINSW's advice, toilet flushing will use potable water. Note that there is a risk that this will not be compliant with Green Star Credit-Reducing Water Use (15% reduction in potable water use). Measures must be taken to compensate for potable water use in toilet flushing.

#### 4.3 Energy

Initiative	Description	Green Star Credit	SINSW Sustainability Strategy Priority	EFSG Criteria
Passive design solutions - Optimising building insulation	Install optimum insulation in new/existing building fabric where possible i.e., floors or internal walls to improve energy efficiency and thermal comfort in all occupied spaces. Refer to the Modelling Report for details on insulation.	Positive – Energy Use (Credit 22)	Act on Climate Change	DG02.03 – Energy Conservation
Passive design solutions – improved glazing	Replacing existing glazing with improved glazing i.e., low-e, double glazed systems to improve thermal comfort, energy efficiency and sealing. Refer to the <b>Modelling Report</b> for details on glazing requirements.	Positive – Energy Use (Credit 22)	Act on Climate Change	DG02.03 – Energy Conservation



Initiative	Description	Green Star Credit	SINSW Sustainability Strategy Priority	EFSG Criteria
Monitoring Systems	Smart building technologies and intelligent controls for ventilation, air conditioning, and lighting controls, to optimize energy usage. HVAC Temperature Humidity and CO2 Sensors will be provided to measure ambient air conditions through the precinct BMS. Motion sensors are provided to deactivate HVAC systems when unoccupied. Lighting motion and timing sensors activate lighting and dimming sensitivity to reduce energy use.	Responsible – Verification and Handover (Credit 3)	Act on Climate Change	DG 55 Thermal Comfort DG 63 Lighting Design

#### 4.4 Waste

Initiative	Description	Green Star Credit	SINSW Sustainability Strategy Priority	EFSG Criteria
Waste Management	Provide waste collection facilities that are labelled, easily to accessible, and evenly distributed throughout the buildings.	Responsible – Collection of Waste Streams (4)	Consume Responsibly	DG 02.7.1

#### 4.5 Materials

Initiative	Description	Green Star Credit	SINSW Sustainability Strategy Priority	EFSG Criteria
Recycled and reused materials	Maximise recycled and reused material in the construction of buildings.	Responsible - Responsible Envelope (7.1), Responsible Systems (8.1-8.2) and Responsible Finishes (9.1-9.2)	Consume Responsibly	DG 02.05



Initiative	Description	Green Star Credit	SINSW Sustainability Strategy Priority	EFSG Criteria		
Material selection to reduce absorption of heat	Choose light-coloured and reflective materials for pavements, sidewalks, and buildings to reduce the absorption of solar heat.	Resilient – Heat Resilient (19)	Build Resilience	DG20		

#### 4.6 Connection to Country

Initiative	Description	Green Star Credit	SINSW Sustainability Strategy Priority	EFSG Criteria
At least 80% of plants are indigenous, native plant species	Choose native plant species that are indigenous to the local area and provide habitat and food sources for native fauna.	Nature – Biodiversity Enhancement (36)	Foster Connections	DG02.06
Community use of facilities	Design facilities for use outside of school hours for activities such as weekend church groups, sport events and public meetings.	Community Resilience (18)	Foster Connections	DG16.08 Department of Education's Community Use of School Facilities Implementation Procedures

#### 4.7 Climate Change

A climate change risk and adaptation workshop was conducted on 24 March 2023, where stakeholders and consultants assessed how the project can respond to future expected environmental conditions as a result of climate change.

Initiative	Description	Green Star Credit	SINSW Sustainability Strategy Priority	EFSG Criteria
Climate Change Risk Assessment	Conduct a CCRA to identify all extreme, high, medium, and low risks to the project.	Resilient – Climate Change (16)	Act on Climate Change	-



Initiative	Description	Green Star Credit	SINSW Sustainability Strategy Priority	EFSG Criteria
Prepare a climate change adaptation and resilience plan	Mitigate all high and extreme risks to the project and consider adaptation measures for most medium risks.	Resilient – Climate Change (16) Resilient – Operations Resilience (17) Resilient – Community Resilience (18)	Act on Climate Change	



# 5 Conclusion and Next Steps

This ESD report outlines the sustainable design initiatives integrated into the proposed Gillieston Public School at 100 Ryans Road, Gillieston Heights, NSW at Phase 3 – Schematic Design. The following consolidated summary of the mitigation measures were identified throughout your report.

<b>Project Stage</b> Design (D) Construction (C) Operation (O)	Mitigation Measures	Relevant Section of Report
D/C/O	The project will contribute to NSW's Net Zero emissions goal by 2050.	Section 4 Net Zero Statement
D/C	The project is on track to achieve 4 Star Green rating. The project has been registered with GBCA and a draft scorecard has been prepared.	Appendix A
D	The project will be fossil fuel-free after the occupation of the activity commences	Section 4 Net Zero Statement
D	Renewable energy generation and any passive and technical design features were incorporated to minimise energy consumption.	Section 4 Net Zero Statement

As the project progresses to the next phases, these initiatives will be further evaluated and refined against the Green Star submission requirements, EFSG guidelines, and NCC Section J requirements, as specified in SINSW's scope provisions.

This report serves as a foundational document to further embed sustainability into the design process, aligning with SINSW's objectives to deliver a net-positive school building.



# Appendix A – Green Star Scorecard

¢g	reenstar Buildings	Date Revision Author Tool Project	17/10/2024 1.0 ST/AV v1 Rev C Gillieston Public School			Credit Risk Low Medium High Total targeted	Points 22 13 0 35	Minimum 16 0 1 -
Credit Title	Aim of Credit	Credit Code	Criteria Title	Credit Requirements Summary For full criteria refer to Green Star for Buildings Submission Guidelines	Points Available	4 star pathway	Credit Risk Status	Corresponding EFSG Requirement
RESPONSIBLE								
		Credit Achievemen	nt; meet all three of	the following criteria:				
		1.1	Green Star Accredited Professional	A Green Star AP must be contractually engaged as part of the core project team for the duration of the project.			Low	
Industry Development	The development facilitates industry transformation through partnership, collaboration and data sharing.	1.2	Financial Transparency	The project team discloses the cost of sustainable building practices of the project, including design, construction and documentation to the GBCA.	1	1	Low	0.03 Sustainability Benchmarking
		1.3	Marketing Sustainability Achievements	Information on the sustainability initiatives that the building targeted must be provided to enable it being featured on the GBCA's website. The project team must outline how the building will detail its sustainability achievements to its stakeholders (typical building occupants and visitors). The Green Star Certification achieved for the project must be prominently displayed in a location that is visible to the public.			Low	
		Minimum Expectat	ion; meet all four of	the following criteria:				
		2.1	Environmental Management System	Builder must have an Environmental Management System (EMS) certified to a recognised standard, such as AS/NZS ISO 14001, BS 7750 or the European Community's EMAS.	_		Low	N/A
		2.2	Environmental Management Plan	The Environmental Management Plan (EMP) must be project specific and cover the scope of construction activities. It must be implemented from the start of construction and include all works within the project scope.			Low	N/A
Responsible Construction	The builder's construction practices reduce impacts and promote opportunities for improved environmental and social outcomes.	2.3		Projects must divert at least <b>80%</b> of construction and demolition waste from landfill. A Disclosure Statement is required from waste contractors and processing facilities outlining how the company and their reporting aligns with the <i>Green Star Construction and Demolition Waste Reporting Criteria</i> .	ME	ME	Low	0.10 Construction and demolition waste
		2.4	Sustainability Training	The Builder must provide the following training to 95% of all contractors and subcontractors present on site for at least three (3) days: • Information on the sustainable building certification(s) sought, including: – the sustainability attributes of the building and their benefits; – the value of certification; and – the role site worker(s) play in delivering a sustainable building.			Low	N/A
		Credit Achievemen	nt; in addition to the	Minimum Expectation, meet the following criteria:				
		2.5	Construction and Demolition Waste Diversion	Projects must divert at least <b>90%</b> of construction and demolition waste from landfill. A Disclosure Statement is required from waste contractors and processing facilities outlining how the company and their reporting aligns with the <i>Green Star Construction and Demolition Waste Reporting Criteria</i> .	1		Not targeted	

		Minimum Expectat	tion; meet all three	of the following criteria:					
		3.1	Metering and Monitoring	The building must have accessible energy and water metering for all common uses, major uses, and major sources. The meters must be connected to a monitoring system capable of capturing and processing the data produced by the meters. The meters and monitoring systems must: • Provide continual information (up to 1-hour interval readings); • Be commissioned and validated per the most current 'Validating Non-Utility Meters for NABERS Ratings' protocol, or National Measurement Institute (NMI) standards; • Be capable of identifying inaccuracies in the meter network and producing alerts. Inaccuracies are defined as those over meter tolerances based on their metering accuracy class (e.g. 'Class 1' meters shall not have inaccuracies of more than 1% due to metering accuracy class); and • Be sufficient to support future achievement of a NABERS rating.			Low	N/A	
Verification and Handover	The building has been optimised and handed over to deliver a high level of performance in operation.	3.2	Commissioning and Tuning	The project team must perform the following prior to construction: • Set environmental performance targets; and • Perform a services and maintainability review; • Design for airtightness; During construction and practical completion: • Commission the building; and • Engage building tuning service provider; • Test for airtightness; After practical completion: • Tune the building over the next 12 months.	ME	ME	Low	N/A	
			3.3	Building Information	The project team must provide the following to the building owner: • Operations and maintenance information for all nominated building systems; • A building log book developed in line with CIBSE TM31: Building Log Book Toolkit before practical completion of the project; and • Building user information.			Low	N/A
		Credit Achievemen following criteria:	nt; in addition to the	Minimum Expectation, meet one or both (Building Services Value > \$20M) of the					
		3.4	Soft Landings Approach	The Builder is to implement Stages 1 - 4 of the Soft Landing Framework Australia and New Zealand .			Not targeted		
		3.5	Independent Commissioning Agent	An ICA must be appointed to advise, monitor, and verify the commissioning and tuning of the nominated building systems throughout the design, tender, construction, commissioning and tuning phases.	1		Not targeted		
Responsible Resource Management	Operational waste is able to be recovered in a safe and easy manner.	Minimum Expectat	tion; meet all three	of the following criteria:					

	4 1	Collection of Waste Streams	The building must provide bins or storage containers to building occupants to enable them to separate their waste. These bins must be labelled and easy to access, and evenly distributed throughout the building. They must also allow for separating the following as a minimum: • General waste going to landfill • Recycling streams to be collected by the building's waste collection service, including: – paper and cardboard – glass – plastic • One additional waste stream identified by the project team. This may include collecting any of the following waste types: organics, e-waste, batteries etc. Any other single waste stream (except food waste) that is expected to represent more than 5% of total annual operational waste and resources (by volume) must also be included.	ME	ME	Low	0.10 Operational Waste
	42	Dedicated Waste Storage Area	A dedicated area, or areas, for the storage and collection of the applicable waste streams must be provided. The storage area must be sized to accommodate all bins or containers, for all applicable waste streams, for at least one collection cycle. The storage area(s) must have easy and safe access by collection vehicles.			Low	
	4.3		Istreams must be provided. The storage area must be sized to accommodate all bins or			Low	

		Credit Achievemer	nt; meet both of the	e following criteria:				
Procurement and services follows	The procurement process for all products, materials, and services follows best practice environmental and	5.1	Risk and Opportunity Assessment	<ul> <li>Prior to appointment of the Head Contractor, the project team must undertake a risk and opportunities assessment of 10 or more key items in the project's supply chain (as selected by the project team) to identify environmental, social and human health risks, and opportunities following ISO 20400 Sustainable Procurement – Guidance. The assessment must be completed by the design team with input from the building owner. At least one of each of the following three areas must be represented in the 10 items:</li> <li>Building Services</li> <li>Plant &amp; Equipment</li> <li>Materials</li> <li>The risk assessment must consider risks and opportunities further down the supply chain, such as in the extraction, manufacture, or transport of key materials. The risk and opportunity assessment must address at least the following issues:</li> <li>Human rights</li> <li>Labour practices</li> <li>Consumer issues</li> <li>Community involvement and development</li> </ul>			Not targeted	
		5.2	Responsible Procurement Plan	The project team must develop a plan for how the project will responsibly procure 10 or more key items mitigating risks and implementing opportunities identified in the Assessment following ISO 20400 Sustainable Procurement – Guidance as a guide to developing the plan. The plan must: • Identify the potential trade packages in which the 10 or more items would be procured • Identify project-level environmental, social, economic objectives reflecting the risks and opportunities assessment • Outline mitigation principles and standards • Stablish a governance process with roles and responsibilities for overseeing implementation of the procurement plan objectives • Outline requirements for data collection and impact measurement monitoring and reporting • Provide a framework for incentivising the achievement of the plan with relevant contractors and trades The plan must be embedded in tender documentation for the head contractor or relevant trades. It must be implemented in partnership with relevant contractors and trades throughout construction, demonstrating data collection, monitoring, and reporting has been carried out.	1		Not targeted	
		Credit Achievemer	nt					
Responsible Structure	The building's structure is comprised of responsibly manufactured products.	6.1	Responsible Products Value	50% of all structural components (by cost) meet a Responsible Products Value of at least 10.	3	3	Medium	

		Exceptional Perform	mance					
			Minimum or	In addition to 6.1, one of the following must be met: •10% of all products in the structure (by cost) meet a Responsible Products Value of at least 15 Or • 80% of all products in the structure (by cost) meet a Responsible Products Value of at least 10.	2		Not targeted	
		Credit Achievemen	nt					
		/ 1	Responsible Products Value	30% of all building envelope components (by cost) meet a Responsible Products Value of at least 10.	2		Not targeted	
Responsible	The building's envelope is comprised of responsibly	Exceptional Perform	mance					
Envelope	manufactured products.		Minimum or	In addition to 7.1, one of the following must be met: • 10% of all products in the building envelope (by cost) meet a Responsible Products Value of at least 15 or • 60% of all products in building envelope (by cost) meet a Responsible Products Value of at least 10.	2		Not targeted	

		Credit Achieveme	nt					
		8.1	Responsible Products Value	20% of all active building systems (by cost) meet a Responsible Products Value of at least 6.	1		Not targeted	
Responsible Systems	The building's mechanical, electrical, hydraulic and	Exceptional Perfor	mance					
	transport systems are comprised of responsibly manufactured products.	8.2	Minimum or Average Responsible Products Value	In addition to 8.1, one of the following must be met: • 5% of all active building systems (by cost) meet a Responsible Products Value of at least 11 or • 35% of all active building systems (by cost) meet a Responsible Products Value of at least 6.	1		Not targeted	
		Credit Achieveme	Credit Achievement					
		9.1	Responsible Products Value	40% of all internal building finishes (by cost) meet a Responsible Products Value of at least 7.	1	1	Low	
Describle	The build in the internet finishes and so that is the	Exceptional Perfor	mance					
Responsible Finishes	The building's internal finishes are comprised of responsibly manufactured products.	9.2	Minimum or Average Responsible Products Value	In addition to 9.1, one of the following must be met: • 10% of all internal building finishes (by cost) meet a Responsible Products Value of at least 12 or • 60% of all internal building finishes (by cost) meet a Responsible Products Value of at least 7.	1		Not targeted	
				RESPONSIBLE Total	17	5		0

HEALTHY								
		Minimum Expectat	tion; meet all three	of the following criteria:				
		10.1	Ventilation System Attributes	<ul> <li>Separation from pollutants: Non-residential building ventilation systems must be designed to comply with ASHRAE Standard 62.1:2013 or AS 1668:2012 (whichever is greater) regarding minimum separation distances between pollution sources and outdoor air intakes.</li> <li>If using ASHRAE Standard 62.1:2013, compliance is to be demonstrated in accordance with the distances specified in Table 5.5.1 of the Standard. Analytical solutions are also acceptable by following the example provided within Appendix F of ASHRAE Standard 62.1: 2013.</li> <li>Class 2 and Class 3 building ventilation systems must be designed to comply with the separation distances as outlined in Australian Standards 1668.2:2012 (table 3.4)</li> <li>Cleaning ductwork: all ductwork that serves the building must be cleaned prior to occupation in accordance with a recognised standard.</li> </ul>	ME	ME	Low	
Clean Air	Pollutants entering the building are minimised, and a high level of fresh air is provided to ensure levels of indoor pollutants are maintained at acceptable levels.	10.2	Provision of Outdoor Air	Outdoor air is provided at a rate <b>50%</b> greater than the minimum required by AS1668.2-2012, or CO <sub>2</sub> concentrations are maintained below <b>800ppm</b> at all times during the occupancy period.			Low	
		10.3	Exhaust or Elimination of Pollutants	It must be demonstrated that pollutants from printing and photocopying equipment, cooking processes and equipment are limited from the nominated area by either: • Removing the source of pollutants; or • Exhausting the pollutants directly to the outside.			Low	
		Credit Achieveme	nt; in addition to the	Minimum Expectation, meet both of the following criteria:				
		10.4	Ventilation System Attributes	Any mechanical ventilation system within the building must provide adequate access to both sides of all moisture and debris-catching components for maintenance within the air distribution system.			Not targeted	
		10.5	Provision of Outdoor Air	For mechanically ventilated or mix mode spaces, outdoor air is provided at a rate <b>100%</b> greater than the minimum required by AS1668.2-2012, or $CO_2$ concentrations are maintained below <b>700ppm</b> at all times during the occupancy period.	2		Not targeted	
		Minimum Expectat	tion; meet all three	of the following criteria:		•		
		11.1	Lighting Comfort	Lighting within the building must meet the following requirements: • All LED lighting installed across the whole project has no observable effect as per the standard IEEE 1789-2015 - IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers • Light sources must have a minimum Colour Rendering Index (CRI) 85 or higher, in all internal and external applications • Light sources must meet best practice illuminance levels for each task within each space type with a maintained illuminance that meets the levels recommended in AS/NZS 1680.1:2006 series applicable to the project type and including maintenance • The maintained Illuminance values must achieve a uniformity of no less than that specified in Table 3.2 of AS/NZS 1680.1:2006, with a maintenance factor method as defined in AS/NZS 1680.4 • All light sources must have a MacAdam Ellipse or a Standard Deviation Colour Matching (SDCM) of 3 or lower.			Low	0.06 Lighting and Daylight

		11.2	Glare from Light Sources	Bare light sources must be fitted with baffles, louvers, translucent diffusers, ceiling design, or other means that obscures the direct light source from all viewing angles of occupants, including occupants looking directly upwards. Refer the Submission guidelines for more prescriptive pathways.	ME	ME	Low	0.06 Glare Contol and shading
Light Quality	The building provides good daylight and its lighting is of high quality.	11.3	Daylight	<ul> <li>The project team is required to show how the building's design:</li> <li>Maximises the number of occupants that are in or near daylit areas during their daily activities for all building types;</li> <li>Ensures regularly occupied spaces are in reasonable proximity to glazed façades, windows or skylights;</li> <li>Controls or mitigates glare in the daylit spaces;</li> <li>Maximises daylight to spaces that prioritise learning, healing, and living:</li> <li>For schools, how all classrooms have access to a view and daylight;</li> <li>Provides building occupants with unrestricted access to daylit indoor common spaces.</li> </ul>			Low	0.06 Lighting and Daylight

		Credit Achievemer	nt; meet at least one	e criteria (2 points)   Exceptional Performance; meet both criteria (4 points)				
		11.4	Artificial Lighting	<ul> <li>The walls within the field of view of occupants in regularly occupied spaces must have an average surface reflectance value of 0.70 and an average surface illuminance of at least 50% of the horizontal illuminance levels required for task. This requirement does not apply to green walls or to coloured/patterned/biophilic feature walls that make up less than 20% of the field of view of the occupants; and</li> <li>Vertical illuminance in workspaces: ensure that 50% of the horizontal task illuminance calculation grid.</li> <li>The illuminance values must be calculated in accordance with AS/NZS 1680 series for the relevant task. Where unknown, a conservative estimate can be used.</li> </ul>	4		Not targeted	
		11.5	Daylight	For non-residential buildings, at least 40% of the nominated area averaged across the building must receive high levels of daylight with no less than 20% on any floor or tenancy (whichever is smaller).		2	Medium	0.06 Lighting and Daylight
		Minimum Expectati	ion					
		12.1	Acoustic Comfort Strategy	An Acoustic Comfort Strategy must be prepared describing how the building design will deliver acoustic comfort to the building occupants. It must address: • Quiet enjoyment of space; • Functional use of space; • Control of intrusive or high levels of noise; • Privacy; • Noise Transfer; and • Speech intelligibility. The Acoustic Comfort Strategy is to include: • A summary of the Standards, legislation, guidelines, and other requirements that apply to the project • The proposed performance metrics for each of the Acoustic Comfort criteria relevant to the different uses within the building and whether this exceeds minimum legislative or best practice guidelines • Description of how the design solution is intended to achieve the proposed performance metrics The strategy must be prepared by a qualified acoustic consultant during the design stage and the design solutions described in the strategy must be incorporated into the Contract Documents.	ME	ME	Low	
	The building provides accustic comfort for building	Credit Achievemer	nt; in addition to the	Minimum Expectation, meet 3 of 5 of the following criteria:				
Acoustic Comfort	The building provides acoustic comfort for building occupants.	12.2	Maximum Internal Noise Levels	In addition to the Minimum Expectation, the following are the applicable acoustic criteria assessable under this credit: • Maximum Internal Noise Levels • Minimum Internal Noise Levels • Acoustic Separation • Impact Noise Transfer • Reverberation Control (non-residential spaces only) Depending upon the project type, the project must comply with some, or all, of the above criteria	2	2	Low	
		12.3	Minimum Internal Noise Levels	Internal ambient noise levels in the regularly occupied areas must be no less than 5 dB below the lower range value relevant to the activity type in each space as recommended in the current AS/NZS 2107:2016.			Low	

	124	Acoustic Separation	The project must address noise transmission between enclosed spaces within the nominated area demonstrated through privacy or sound insulation.		L
	12.5	Impact Noise Transfer	Impact noise transfer measured in accordance with ISO 16283-2 through a floor where: • Floors are located above nominated areas; or • Adjacent spaces belonging to different tenancies which share a floor must not exceed dB LnT,w: - 55 for floors above residential accommodation spaces; and - 60 for all other spaces.		Not ta
	12.6		Reverberation time in the regularly occupied area must be below the maximum stated in the 'Recommended Reverberation Time' provided in Table 1 of AS/NZ 2107:2016.		Not ta



		Minimum Expectat	ion: meet all three	of the following criteria:				
Exposure to Toxins		13.1	Paints, Adhesives, Sealants & Carpets	At least 95% of internally applied paints, adhesives, sealants (by volume) and carpets (by area) must meet stipulated 'Total Volatile Organic Compounds (TVOC) Limits' below. Compliance can be demonstrated in the following ways: • The product(s) are certified under a Recognised Product Certification Scheme listed in the 'Exposure to Toxins Product Certifications Schemes Index'. The certificate must be current at the time of purchase • The product(s) are tested in a laboratory • There are no paints, adhesives, sealants, and carpets in the building at practical completion	ME	ME	Low	0.08 Sustainable Materials
	The building's occupants are not directly exposed to toxins in the spaces they spend time in.	13.2	Engineered Wood Products	Either no new engineered wood products are used in the building or at least 95% (by area) of all engineered wood products meet specified formaldehyde emission limits. A comprehensive hazardous materials survey must be carried out. Asbestos, lead or			Low	
		13.3	Banned or Highly Toxic Materials	PCBs have been stabilised or removed and disposed in accordance with best practice guidelines; or the survey concluded that no hazardous materials were found in any existing buildings or structures on the project site.			Low	
		Credit Achievemer	nt; in addition to the	Minimum Expectation, meet the following criteria:				
		13.4	TVOC and Formaldehyde Levels	Onsite test meeting following limits: • TVOC = 0.27 ppm; • Formaldehyde = 0.02 ppm; and • At least three samples are to be taken per floor. These must be representative of where the occupants are likely to spend a majority of their time.	2	2	Low	0.08 Sustainable Materials
		Credit Achievemer	nt					
Amenity and Comfort	The building provides internal amenities that improve occupant experience of using the building.	14.1	Amenity Rooms	The building includes one or several rooms designed to promote either inclusivity, mindfulness or exercise for staff or occupants. For a room(s) to qualify, it must be classified as per below: • Parent room; • Relaxation, meditation or prayer room; or • Exercise room; and The room size to be provided must be as follows: • The size of the room is calculated at a ratio of 1m <sup>2</sup> per every 10 occupants or staff; and • The room must be no smaller than 10m <sup>2</sup> .	2	2	Low	
		Credit Achieveme	nt; Views + either I	Plants and Nature-inspired design or Interaction with Nature   Exceptional Performance; all criteria				
		15.1	Views	At least 60% of the nominated area has a clear line of sight to a high quality internal or external view. All floor areas within 8m from a compliant view can be considered to meet this credit criterion.			Not targeted	
		15.2	Plants	Indoor plants must be provided in regularly occupied areas. One or more plants in pots with a soil surface area totalling at least 500cm <sup>2</sup> for every 15m <sup>2</sup> of the primary spaces is required. An ongoing maintenance plan must be established to ensure plant health is maintained.			Not targeted	
Connection to Nature	The building fosters connection to nature for building occupants.	15.3	Nature-inspired Design	Five additional nature-inspired design interventions must be provided in alignment with the following principles: • Elements that provide multiple natural sensory experiences; • Elements that reflect natural and cultural patterns and forms; • Using natural materials; and • Large scale and holistically incorporated natural motifs and art.	2		Not targeted	

15.4	Interaction with Nature	<ul> <li>Occupants can interact with nature either inside the building, or externally through a green façade (or wall) or garden;</li> <li>At least 5% of the building's floor area/or site area (whichever is greater) must be planted area (either vertical or horizontal); and</li> <li>The allocated area must be accessible and have the necessary infrastructure to allow the activity to occur.</li> </ul>			Not targeted	
		HEALTHY Total	14	8		0

RESILIENT								
		Minimum Expectat	tion					
Climate Change		16.1	Pre-screening Assessment	Project team members must consider potential impacts from climate change when completing the checklist including, but not limited to: • Direct damage or failure of project components; • Accelerated deterioration of project components or reduced design life; • Reduced operating capacity; • Climate hazard impacts to surrounding areas (e.g. impacting access and egress); • Impacts to the health and wellbeing of building occupants and other relevant stakeholders; and • Indirect risks from impacts to other interdependent systems and services (e.g. transport networks, power, water, telecommunications).	ME	ME	Low	0.05 Climate Change Adaptation
Resilience	The building has been built to respond to the direct and indirect impacts of climate change.	Credit Achieveme	n; in addition to the	Minimum Expectation, meet both the following criteria:				
	g.	16.2	Climate Change Risk and Adaptation Assessment	A suitably qualified professional must undertake a climate change risk and adaptation assessment and author a report.			Low	
		16.3	Managing Risks	The project team must ensure risks are addressed as follows: • All risks rated as 'Extreme' must be addressed through specific design responses; • All risks rated as 'High' must be addressed through design or future operational responses; and • Regardless or risk rating, at least two risks identified in the assessment must be addressed by specific design responses.	1	1	Low	0.05 Climate Change Adaptation
		Credit Achieveme	nt; meet all three of	the following criteria:				
Operations Resilience	The building can respond to acute shocks and chronic stresses that can affect its operations over time.	17.1	Comprehensive Risk Assessment	The suitably qualified professional authoring the operations resilience assessment must •Identify a set of clear resilience objectives and performance goals for the project and provide a diverse range of actions; •Collaborate with key internal and external project stakeholders to identify and confirm the relevant acute shocks and chronic stresses likely to impact the functionality of the project and its ability to meet performance goals; •Identify and confirm a range of interdependent infrastructure systems, networks, services and assets on which the project is likely to rely and interface with; •Identify key areas of system vulnerability, specifically how these may be affected by the identified shocks and stresses and as result may impact the project through reduced capacity and/or functionality; and •Outline emergency response procedures in the event of an identified shock event/natural disaster impacting the project and the local community. •Consult with relevant authorities with regards to evacuation procedures and emergency actions	2		Not targeted	
		17.2 Managing R	Managing Risks	<ul> <li>All risks rated as 'Extreme' must be addressed through specific design responses.</li> <li>All risks rated as 'High' must be addressed through design or future operational responses.</li> <li>Regardless of risk rating, at least two risks identified in the assessment must be addressed by specific design responses.</li> </ul>			Not targeted	
		17.3	Addressing Power Loss	Project team must assess building's survivability in the case of a blackout, then designed to account for its design purpose and provide a measure of survivability.			Not targeted	
i l		Credit Achievemer	nt					

Community Resilience	The building contributes to improving the resilience of the community.	18.1	Community Resilience Plan	The project team must develop a community resilience plan that: • Defines its surrounding local community, and the groups which rely on or interact directly or indirectly with the building. In addition to considering tenants and visitors, this must identify key vulnerable communities; • Identifies resilience objectives and goals associated with servicing the community; • Identifies social considerations affecting the community; • Identifies acute shocks and chronic stresses that impact the project's function and ability to service the community (including climate-related shocks and stresses if the Climate Change Resilience credit is not targeted); • Demonstrates how the development of actions (physical and non-physical responses) to manage the impact from shocks and stresses is in response to the outcomes of community engagement; • Shows how the two most significant impacts identified are dealt with specifically through the building's design; and • Identifies how material shocks and stresses identified for the building may impact on these stakeholders by considering a clear set of social indicators	1		Not targeted	
		Credit Achievemen	it					
Heat Resilience	The building reduces its impact on heat island effect.	19.1	Heat Island Reduction	Design responses to mitigate urban heat island. 75% of the site area to be one or a combination of: • Vegetation; • Green roofs; • Roofing materials, including shading structures, having the following: – For roof pitched <15°– a three-year SRI of minimum 64; or – For roof pitched >15°– a three-year SRI of minimum 34. • Unshaded hard-scaping elements with a three-year SRI of minimum 34 or an initial SRI of minimum 39; • Hardscaping elements shaded by overhanging vegetation; and • Water bodies and/or water courses. Area of site that is shaded by permanent structures during the summer solstice are also deemed compliant	1	1	Low	
		Credit Achievemer criteria:	nt; meet one criteria	or a combination of Active Generation and Storage Systems and Demand Response				
Grid Resilience	The building contributes to the functioning of the grid as it transitions to a higher level of renewable energy	20.1	Active Generation and Storage Systems	The building has the capacity to reduce its electricity peak demand by 10% of the building's annual peak electricity demand for at least a one-hour period. The peak demand reduction can occur through • thermal storage solutions (such as chilled water storage systems); • electricity storage solutions (batteries); or • renewable on-site generation. Building management system (BMS) must include a demand management dashboard that shows the peak demand target, current, historical demand, alongside the critical performance characteristics. The BMS must also have the capacity to accept external control signals to enable signing up to current or future demand response programs			Not targeted	
	capacity.	20.2	Demand Response	The demand response strategy must show how at least 10% of the building's annual peak electricity demand is being shed without affecting occupant amenity (comfort, lighting, movement) as outlined in credits Light Quality and Amenity and Comfort for at least 4 hours.	3		Not targeted	

		20.3	Passive Design Solutions	<ul> <li>The building's facade demonstrates a 10% improvement over a reference building modelled to Section J requirements of the National Construction Code 2019, or the version of the code applicable to the building's construction, whichever is later. The calculation must follow either Method 2 in the wall/glazing calculator or use a JV3 model; and</li> <li>The building is mostly naturally ventilated (that is, the building has no mechanical cooling or heating for 80% of the building's occupiable area); and</li> <li>The building's occupiable area is less than 3,000m<sup>2</sup>.</li> </ul>			Not targeted	
				RESILIENCE Total	8	2		0
POSITIVE								
		Minimum Expectat						
		21.1	Reducing Upfront Carbon Emissions	Emits 10% less upfront carbon emissions compared to a reference building	ME	ME	Low	N/A
		Credit Achievemen	nt; in addition to the	Minimum Expectation, meet the following criteria:				
Upfront carbon emissions	The building's upfront carbon emission contributions from materials and products have been reduced and	21.2	Reducing Upfront Carbon Emissions	Emits 20% less upfront carbon emissions compared to a reference building. Demolition works are offset.	3	3	Medium	N/A
CITISSIONS	offset.	21.3	Offsetting Demolition Works	Demolition works are offset	5	3	Medium	N/A
		Exceptional Perfor		to the Credit Achievement, meet the following criteria:				
		21.4	Reducing Upfront Carbon Emissions	Emits 40% less upfront carbon emissions compared to a reference building	3		Not targeted	
		Minimum Expectat						
		22.1	Reducing Energy Use	The building uses 10 % less energy compared to a reference building.	ME	ME	Low	0.06 Energy Conservation
		Credit Achievemen		Minimum Expectation, meet the following criteria:				
Energy use	The building has low energy consumption.	22.2	Reducing Energy Use	The building uses 20% less energy compared to a relevence building.	3	3	Low	
		Exceptional Perfor		to the Credit Achievement, meet the following criteria:				
		22.3	Reducing Energy Use	The building uses 30% less energy compared to a reference building.	3		Not targeted	

		Minimum Expectat	ion					
Energy source	The building's energy comes from renewables.	23.1	Zero Carbon Action Plan	The project team must develop a Zero Carbon Action Plan for the building. The plan must be signed off by the building owner or developer and included in any operational documents for the building. The Zero Carbon Action Plan must include a target date by when the building is expected to operate as net zero carbon. The Zero Carbon Action Plan must cover all energy consumption, procurement, and generation and cannot rely on procuring renewable fuels as its only solution. It must also include infrastructure provided for tenants or future occupants such as gas installations for cooking.	ME	ME	Low	
5,		Credit Achievemer	nt: in addition to the	Minimum Expectation, meet the following criteria:				
		23.2	Renewable	All <i>electricity</i> under the control of the building owner or operator must be accounted for and sourced from renewables.	3	3	Medium	
		Exceptional Perform	mance; in addition	to the Credit Achievement, meet the following criteria:				
		23.3	Renewable Energy	All energy under the control of the building owner/operator and all non-electricity energy provided for uses that are not under the building owner's control must be sourced from renewables.	3		Not targeted	
		Credit Achievemer	nt					
		24.1	Eliminating or Offsetting Refrigerants	All refrigerants from building systems or domestic appliances provided by the building must be captured in the credit. There are two pathways available: • Eliminates high-GWP refrigerants from the building; or • Offsets 100% of carbon emissions from refrigerants.	2		Not targeted	
		Exceptional Perform	mance; in addition	to the Credit Achievement, meet the following criteria:				
Other carbon emissions	The building's other carbon emissions, such as those from refrigerants, are eliminated or offset.	24.2	Other Emissions	The project must calculate and offset: • Emissions for refrigerants; • Emissions from the building's electricity use (as determined in the Energy Use credit) multiplied by the grid coefficient (unless the Energy Source Credit Achievement is met, in which case these emissions are zero); • Emissions from the building's energy use as determined in the Energy Use credit (unless the Energy Source Exceptional Performance is met, in which case these emissions are zero); • Upfront carbon emissions as determined in the Upfront carbon emissions credit; • Upfront carbon emissions as determined in the Upfront carbon emissions credit; • Emissions from module A5 construction equipment use, and utilities during construction on site (unless the Life Cycle Impacts calculator was used for the Upfront Carbon Emissions credit); • Life cycle emissions from modules B and C as calculated in Life Cycle Impacts; • Construction waste emissions; and • Any other carbon emissions over 1% of the total carbon emissions profile for the building.	2		Not targeted	
		Minimum Expectat	-	e following criteria:				
		25.1	Sanitary Fixture and Appliance Efficiency	All fixtures and water-using appliances installed within the project's scope must, at a minimum, meet the prescribed WELS ratings.			Low	
		25.2	Reducing Water Use	Uses 15% less potable water compared to a reference building through the GBCA's Water Use Calculator.	ME	ME	High	
		Credit Achievemer	nt; in addition to the	Minimum Expectation, meet both of the following criteria:				

Water use	The building has low water consumption.	25.3	Reducing Water Use	Uses 45% less potable water compared to a reference building through the GBCA's Water Use Calculator.	2		Not targeted	
		25.4	Recycled Water Infrastructure	Building must have infrastructure for recycled water in a district or location where local council or water authorities (or similar) have planned for installation of recycled water infrastructure.	5		Not targeted	
		Exceptional Perform	mance; in addition	to the Credit Achievement, meet the following criteria:				
		25.5	Reducing Water Use	Uses 75% less potable water compared to a reference building through the GBCA's Water Use Calculator.	3		Not targeted	
		Credit Achievemer	nt					
Life Cycle Impacts	The building has lower environmental impacts from key resources over its lifespan than a typical building.	26.1	Life Cycle Impacts	The project demonstrates a 30% reduction in life cycle impacts when compared to standard practice.	2	2	Medium	
				POSITIVE Total	30	11		0.0

PLACES								
		Minimum Expectati	on; meet both of th	e following criteria:				
		27.1	Changing Facilities	The project must provide adequate facilities for regular occupants (not for visitors), including: • Showers; and • Lockers.	ME	ME	Low	
		27.2	Located in a Safe and Protected Place	Upon accessing, pedestrians and cyclists must be protected from the elements and other vehicles. Access must be safe, with consideration given to avoiding steep gradients, surface grip levels, and visibility around tight corners.	ME	ME	Low	
		Credit Achievemen	t; in addition to the	Minimum Expectation, meet all four of the following criteria:		ME		
Movement and	The building's design and location encourages occupants and visitors to use active, low carbon, and	27.3	Bicycle Parking Facilities	The building's access must prioritise walking and cycling options. This means the building's access must be well lit, weather protected and separated from vehicles.			Low	
Place	mass transport options instead of private vehicles.	27.4	Sustainable Transport	<ul> <li>The project team must prepare and implement a Sustainable Transport Plan. The requirements must be reflected in the design of the building's facilities and ongoing operational processes; and</li> <li>Provide EV charging point to at least 5% of all car parking spaces, all car sharing parking spaces, infrastructure and load management plan for future 25% of all car parking spaces, and dedicated routes for future provision of electrical cabling.</li> </ul>	3	3	Medium	
		27.5	Reducing Private Vehicle Use	Complete the Movement and Place Calculator and demonstrate at least: • Emission reduction: 40% • Active mode encouragement: 90% • VKT reduction: 20%	must be well lit, weather protected and separated from vehicles.       Medium         must prepare and implement a Sustainable Transport Plan. The st be reflected in the design of the building's facilities and ongoing isses; and reging point to at least 5% of all car parking spaces, all car sharing infrastructure and load management plan for future 25% of all car ind dedicated routes for future provision of electrical cabling.       Medium         vement and Place Calculator and demonstrate at least:       3       3         ion: 40%       Low         20%       and location must encourage walking to and from a number of eans designing roads within the site boundary to prioritise       Low			
		27.6	Encouraging Walkability	Building's design and location must encourage walking to and from a number of amenities. This means designing roads within the site boundary to prioritise pedestrians, and either providing within, or being located close to, a number of amenities.			Low	
		Credit Achievemen	t; meet both of the	following criteria:				
Enjoyable Places	The building provides places that are enjoyable and inclusive.	28.1	Publically Accessible Places	The project provides new, publicly accessible spaces that are enjoyable and support community activity and interaction - 0.25 m²/occupant or 2.5% of GFA, whichever is greater.	2		Not targeted	
Injoyable Places		28.2	Strategy	An activation strategy must be provided to ensure placemaking continues after practical completion. The strategy must demonstrate how the future occupants and the wider community can contribute to the place activation.	2		Not targeted	
		Credit Achievemen	t, meet one of the	following criteria:				
		29.1	Urban Context Report	Provide an urban context report and demonstrate how building's design responds to it.			Not targeted	

Contribution to Place	The building's design makes a positive contribution to the quality of the public environment.	29.2		Design reviews are held at key points in the development of the design. At a minimum, these must occur as follows: • Design Review during concept/schematic design stage, to ensure that proponents can take advantage of the advice offered at a time where the design is flexible enough to accommodate change without impacting on time and cost constraints; • A subsequent review when the design has been further progressed. This review session will typically occur during design development; and • A to building permit stage (after development approval) a further check must take place by the Design Review Panel Chair or delegate, to ensure that the final design reflects approved development application and any relevant conditions related to design quality.	2		Not targeted	
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		Credit Achievemer	t, meet one of the	following criteria:				
	The building reflects local culture, heritage and identity.	30.1	Community led design response	The project team must show that they have undertaken local analysis to identify culture, heritage and identity unique to the project site and area. The project team must undertake community engagement as part of this local analysis, the project must reflect local identity, culture and heritage in the design of the building in a publicly demonstrable way. This can be achieved through: • Community art or placemaking projects; • Selection of suppliers/designers of artwork or cultural elements; • Building elements that tell stories of the past and heritage; and • Spaces and uses that reflect the local identities			Not targeted	
Culture, Heritage and Identity		30.2	Independent Design Review	Design reviews are held at key points in the development of the design. At a minimum, these must occur as follows: • Design Review during concept/schematic design stage, to ensure that proponents can take advantage of the advice offered at a time where the design is flexible enough to accommodate change without impacting on time and cost constraints; • A subsequent review when the design has been further progressed. This review session will typically occur during design development; and • At building permit stage (after development approval) a further check must take place by the Design Review Panel Chair or delegate, to ensure that the final design reflects approved development application and any relevant conditions related to design quality.	1		Not targeted	
				PLACES Total	8	3		0
PEOPLE								
		Minimum Expectati	on					
			On-site Facilities,	The head contractor must ensure the following is provided, or available, on-site: • Separate gender inclusive bathroom facilities and changing amenities with a high degree of privacy; and • Diverse gender-specific fit-for-purpose personal protective equipment (PPE) for diverse body sizes and types. The head contractor must: • Implement policies to address issues of discrimination, racism, and bullying on-site; • Introduce on-site redress procedures for any relevant breaches, and corrective				
		31.1	Policies and Training	<ul> <li>measures to be put in place should any incident be identified;</li> <li>Empower a diverse lead team to manage these policies on-site, and</li> <li>Provide training to all contractors and sub-contractors on these policies (as per below).</li> <li>The head contractor must provide the following training to 95% of all contractors and subcontractors present on site for at least three days:</li> <li>Information on drug and alcohol awareness and mental health; and</li> <li>Information on policies implemented on discrimination, racism, and bullying on site.</li> </ul>	ME	ME	Low	

Inclusive Construction Practices	The builder's construction practices promotes diversity and reduces physical and mental health impacts.	31.2	Needs Analysis	The responsible party should carry a needs analysis of site workers and contractors to determine appropriate actions. The policies and programs should be relevant to all construction workers on site for the full duration of construction. A mix of programs is acceptable throughout the duration of construction period. • The programs must cover at least 80% of the workforce that have attended the site for more than three days from commencement on site to practical completion.		Not targeted	
		31.3	Physical and Mental Health Programs	The head contractor must show that they have introduced programs and solutions to address at least five of the following: • Suicide prevention; • Healthy eating and active living; • Reduce harmful alcohol and tobacco consumption and avoid drug use; • Increased social cohesion, community and cultural participation; • Understanding depression; • Preventing violence and injury; • Decreased psychological stress; • Finding fulfilment at work or mindful meditation; and • Other issues identified in the Needs Analysis.	1	Not targeted	
		31.4	Evaluating the Program's Effectiveness	The project must provide an evaluation report to the client and sub-contractors with the following information: • Information on the programs or initiatives that were delivered, including information on dates, attendance, and available languages; and • A review on whether the programs delivered the intended outcomes including recommendations for improving future delivery of these programs.		Not targeted	

		Credit Achievemer	nt; meet one of the	following criteria:					
Indigenous	The building celebrates Aboriginal and Torres Strait	32.1	Reconciliation Action Plan	Project team must demonstrate that: • A key member of the Project Team is part of the organisational RAP Working Group; • At least 90% of the RAP targets have been met on the project; and • All implemented actions related to the RAP are publicly reported on the Project's website.			Not targeted		
inclusion	Islander people, culture and heritage.	32.2 li c	Inclusion of Indigenous design	<ul> <li>The project team must demonstrate that the Australian Indigenous Design Charter guiding principles are incorporated in the design of the building including:</li> <li>How local Aboriginal and Torres Strait Islander communities have been engaged throughout the design development;</li> <li>How the project has been designed to acknowledge and recognise the Indigenous culture of the site;</li> <li>How information on the reconciliation and cultural values of the project will be made available to the public, visitors and building tenants in the operational phase of the project's life.</li> </ul>	2	2	Low		
		Credit Achievemen	nt; meet both of the						
		33.1	Social Procurement Strategy	The project team must develop and implement a social procurement strategy or plan (this can be part of an overall project procurement plan/strategy) that directs at least <b>2%</b> of the building's total contract value to generate employment opportunities for disadvantaged and under-represented groups.			Low		
Procurement and	The building's construction facilitates workforce participation and economic development of	33.2	Employment Opportunities	Generate employment opportunities for disadvantaged and under-represented groups either: • Directly, through workforce targets; or • Indirectly, through social procurement. A combination of these strategies can be used to achieve the credit, as long as the total dollar spend on the above activities is equal to or greater than the required <b>2%</b> value of the building's total contract value.	2	2	Medium		
Workforce Inclusion		Exceptional Perform	mance; meet both	of the following criteria:					
Inclusion	disadvantaged and under-represented groups.	33.1	Social Procurement Strategy	The project team must develop and implement a social procurement strategy or plan (this can be part of an overall project procurement plan/strategy) that directs at least <b>4%</b> of the building's total contract value to generate employment opportunities for disadvantaged and under-represented groups.			Not targeted		
			33.2 Credit Achievemer	Employment Opportunities	Generate employment opportunities for disadvantaged and under-represented groups either: • Directly, through workforce targets; or • Indirectly, through social procurement. A combination of these strategies can be used to achieve the credit, as long as the total dollar spend on the above activities is equal to or greater than the required <b>4%</b> value of the building's total contract value.	1		Not targeted	

sign for The building is welcoming to a diverse population a clusion is welcoming to their needs.			The building's design and construction must be able to be navigated and enjoyed by stakeholders of diverse ages, genders, and abilities. This applies to common spaces, bathroom facilities and amenities provided within the building. This must include: • Equal access to the building: Provide equitable, appealing, safe, and secure access in a manner that does not segregate or stigmatise users through all principal entrance points and main thoroughfares inside and outside the building; • Diverse wayfinding: Introduce visual, physical, olfactory, and auditory solutions to help individuals navigate the site in a safe and enjoyable manner; and • Inclusive spaces: Introduce internal and external spaces for a diverse range of users, including parents, family restrooms, emergency rooms, quiet rooms and social interaction rooms. These rooms must be accessible to all users.	2	2	Low	
	34.2	Needs Analysis	A Needs Analysis is conducted, meeting the following requirements: • The project team must consult with distinct community types to develop a needs analysis that will influence the project during the design phase; • Consultation must be undertaken early in the design process and include a balanced cross-section of representation of the target group; • Consultation must be considerate and relevant to the project; and • The consultation process must generate a report that is then used to influence the design of the project. As a result of the needs analysis, the building must show how it aligns with best practice guidelines, such as the Design for Dignity Guidelines: Principles for Beyond Compliance Accessibility in Urban Regeneration.	1		Not targeted	

NATURE								
		Minimum Expectat	ion; meet all three o	of the following criteria:				
		35.1	Ecologically Sensitive Sites	At the date of purchase or option contract, land clearing does not occur on the site as a result of the building, infrastructure, or construction works on the following: • Old-growth forest; • Prime agricultural land; • Any wetland listed as being of 'High National Importance'; • Aspects considered 'Matters of National Environmental Significance' listed under the Environmental Protection and Biodiversity Conservation Act (1999).			Low	
Impacts to Nature	Ecological value is conserved and protected	35.2	Managing Light Pollution Impacts	<ul> <li>Light pollution to neighbouring bodies: all outdoor lighting on the project complies with AS 4282:1997 Control of the obtrusive effects of outdoor lighting.</li> <li>Light pollution to night sky: one of the following specified reductions in light pollution must be achieved by the project:</li> <li>Control of upward light output ratio (ULOR); or</li> <li>Control of direct illuminance.</li> </ul>	ME	ME	Low	
Nature		35.3	Wetland Management Plan	The site-specific Wetland Management Plan must be prepared by a qualified Ecologist or other qualified professional and include requirements for ongoing quarterly monitoring, annual reporting and management of the wetland ecosystem for a minimum of five years. The plan must be exhibited to the public on the applicant's website, or the local council's offices or library, for a minimum of 24 months.			Low	
		Credit Achievemen	nt; in addition to the	Minimum Expectation, meet both of the following criteria:				
		35.4	Protecting Ecological Values	<ul> <li>Context report: understand the site's historical and current ecological context by documenting the site's current ecological values by type and biomass.</li> <li>Protecting ecology: show how ecological values will be protected.</li> </ul>	2		Not targeted	
		35.5	Retaining High Biodiversity Values	If deemed necessary by an Ecologist, at least 50% of existing site with high biodiversity value is retained.			Not targeted	
		Credit Achievemen	nt: meet all three of	the following criteria:				
		36.1	Landscape Area	At a minimum, external landscape in the building, whether horizontal or vertical must be provided at a ratio of either 15% of the site area or at a ratio of 1:500 of the GFA, whichever is larger. Vertical or horizontal landscapes are acceptable.			Not targeted	
		36.2	Diversity of Species	<ul> <li>Landscape must be shown to be diverse and include multiple species/genus/etc.</li> <li>Greater than 60% of plants must be indigenous and the site must include at least one significant (nesting) tree or equivalent habitat provision per 500m<sup>2</sup> of landscaped area.</li> <li>No invasive species are allowed, as per the Australian Weeds Strategy 2017 to 2027.</li> </ul>	2		Not targeted	
		36.3	Biodiversity Management Plan	A suitably qualified professional must prepare the plan must outline key actions that need to be undertaken in order to maintain the ecological integrity of biodiversity on the site, whether this is existing or that created as part of the development.			Not targeted	
Biodiversity		Exceptional Perform	mance; in addition t	o the Minimum Expectation, meet both of the following criteria:				
Enhancement	the site and off site	36.4	Landscape Area	As a minimum, external landscape in the building, whether horizontal or vertical must be provided at a ratio of either 30% of the site area or at a ratio of 1:300 of GFA, whichever is larger. Vertical or horizontal landscapes are acceptable.			Not targeted	

		36.5	Diversity of Species	<ul> <li>Landscape must be shown to be diverse and include multiple species/genus/etc.</li> <li>An ecologist must review, assess and verify how the choice of landscaping and biodiversity is diverse and resilient to climate change impacts, thereby increasing the longevity of the landscape.</li> <li>Greater than 80% of plants must be indigenous and the site must include at least one significant (nesting) tree or equivalent habitat provision per 250m<sup>2</sup> of landscaped area.</li> <li>No invasive species are allowed, as per the Australian Weeds Strategy 2017 to 2027.</li> <li>The site must preserve, restore and/or support vulnerable ecosystem through planting critically endangered and/or endangered plant species which are native to the bioregion.</li> </ul>	2	Not targeted	
		Credit Achievemen	t				
Nature Connectivity	Wildlife movement is facilitated within and adjacent to the site.	37.1	Species Connectivity	The site may include any of the following strategies: • Landscaping: Where connectivity is being achieved through landscaping, this must be contiguous with existing, restored and new habitats. As a minimum requirement for habitat connectedness, the conservation area must make up at least 25% of the total external area within the building's site boundary. To be eligible, this must be at least 182m <sup>2</sup> ; or • Infrastructure: Design features such as a canopy bridge, wildlife tunnels, green roofs, amphibian tunnels and green infrastructure are used to connect nature on site to adjacent natural areas, which are either existing, restored or new.	2	Not targeted	

		Credit Achievemen	t; meet all four of t	he following criteria:				
		38.1	Area of Restoration or Protection	The area of restoration must be equivalent to the total GFA of the development, or site area, whichever is greater.			Not targeted	
Nature	Biodiversity is restored beyond the building site.	38.2	Location of Restoration or Protection Activities	Land for restoration must be in Australia and restored to equivalent ecological value of the site before any development occurred. The location of the land designated for the offsite restoration must not be in the development boundary.			Not targeted	
Stewardship		38.3	Activities to Protect or Restore	Achieving the credit can be done by either: • The project owner protecting or restoring an area offsite themselves; or • The project owner supports an organisation that restores an area on their behalf.	2		Not targeted	
		38.4	Legislated Requirements	Where the project is required to purchase biodiversity offsets, invest in land restoration, restore land, or similar, as part of an EPBC action, development approval, or other legislated requirements, these actions cannot be used to demonstrate compliance with this credit.			Not targeted	
		Credit Achievemen	t; meet both of the	following criteria:				
		39.1	Stormwater Volume	Demonstrate a reduction in average annual stormwater discharge (ML/yr) of 40% across the whole site.			Not targeted	
Waterway	Local waterways are protected, and the impacts of	39.2	Pollution Reduction Targets	All stormwater discharged from site meets: Total Suspended Solids 85%; Gross Pollutants 90%; Total Nitrogen 45%; Total Phosphorus 65%	2		Not targeted	
Protection	Local waterways are protected, and the impacts of flooding and drought are reduced       39.2       Pollution Reduction Targets       All stormwater discharged from site meets: Total Suspended Solids 85%; Gross Pollutants 90%; Total Nitrogen 45%; Total Phosphorus 65%       Not targeted         Exceptional Performance; in conjunction with the Minimum Expectation, meet both of the following criteria:       Image: Conjunction with the Minimum Expectation, meet both of the following criteria:       Image: Conjunction with the Minimum Expectation, meet both of the following criteria:       Image: Conjunction with the Minimum Expectation, meet both of the following criteria:							
		39.3	Stormwater Volume	Demonstrate a reduction in average annual stormwater discharge (ML/yr) of 80% across the whole site.	2		Not targeted	
		39.4	Pollution Reduction Targets	All stormwater discharged from site meets: Total Suspended Solids 90%; Gross Pollutants 95%; Total Nitrogen 60%; Total Phosphorus 70%			Not targeted	
				NATURE Total	14	0		0
LEADERSHIP		Credit Achievemen	t, up to 5 points av	ailable				
Market Transformation	Celebrates initiatives or outcomes that are deemed new and break barriers, and in turn inspire others to follow.	40.1	Innovative Initiatives	To claim points, the project team must show that an initiative is innovative by demonstrating that the technology or process is not commonly used within Australia's building industry globally, depending on the context of the innovation claimed. Projects must demonstrate these initiatives align with the following GBCA scoring metrics: • Control of outcome: the initiative delivers a guaranteed outcome • Length of impact: the initiative delivers long-lasting impacts • Scale of impact: the scale of impact is significant. For example, the outcome may satisfy multiple UN Sustainable Development Goals • Transformation potential: the initiative has the potential to transform an industry or	5		Not targeted	
		Credit Achievemen		sector <ul> <li>Value generation: the initiative can deliver benefits to both stakeholders (e.g. building owner or occupants) as well as the general public</li> </ul>				

ership enges	Promotes achievements that are considered leading practice in Australia.	41 1	Challenges	Projects teams can target as many Leadership Challenges as they wish. Leadership Challenges will be uploaded to the GBCA website as they are developed. All criteria as listed on the Leadership Challenge must be met to claim reward.	Unlimited		Not targeted	
				LEADERSHIP Total	5	0		0

	Er	vironmental Category	Points Available	4 star
		RESPONSIBLE	17	5
		HEALTHY	14	8
		RESILIENT	8	2
		POSITIVE	30	11
		PLACES	8	3
		PEOPLE	9	6
		NATURE	14	0
		SUB-TOTAL POINTS	100	35
		LEADERSHIP	5	0
		TOTAL SCORE	105	35
		Minimum Expecta	tions met	Yes
4 Star - 15-34 points	5 Star - 35-70 points	6 Star - 70+ points		



Appendix B – ESD Schedule

PROJECT: REVISION	Gileston Public School A Sonti Thomass, Arradis	]							
	Struct Thomas - Arcadis Sustainability initiatives / requirements Where application, bits is an extract only from the relevant EFSG. For full requirements refer to https://efig.edf.ext.exd.au/	Project stage	Basis for Initiative	Crossover with Green Star	Recommended evidence to demonstrate compliance	Has this been implemented in the project? Y or N or NA	Contractor's ESD consultant comments	Actual evidence This evidence needs to show that the requirement from column C has been met	Responsibility: (identify party responsible to provide evidence)
ct on climate change	Interpretention over MCC all some characteristic must be designed and built to that energy consumption is predicted to be at least DDA lower that it huid to information complexes with hatchead construction code requirements. Each builders, spatian and fapale must comply with the corresponding Section / requirements in the National Antiparticle (spatian and fapale must comply with the corresponding Section / requirements in the National Antiparticle (spatian and fapale must comply with the corresponding Section / requirements in the National information (spatian and fapale must comply with the corresponding Section / requirements in the National information (spatian and fapale must comply with the corresponding Section / requirements in the National information (spatian and fapale must comply with the corresponding Section / requirements in the National information (spatian and fapale must comply with the corresponding Section / requirements in the National information (spatian and fapale must comply with the corresponding Section / requirements in the context of the complexes of the National Section (spatian and spatian and spatian information (spatian and spatian	Ph 2-5: Architectural Design	DG02.03 GREP	DAB c15E.0 GHG Emissions Reduction - Conditional Requirement	L trangy modeling report / reactive energy modeling and themal confert assessment. Begor readed to about aleas 10% requirements, and A holist evidence that model is an accurate representation of the building, e.g. drawings; and 3. Specification / calculations supporting modeling inports, e.g. window energy rating tachemic certificates, calculated & values of walks, roch, etc.	Y or N or NA		Phase 3 - Energy modeling report completed	ESD
t on climate change	Parales design Parales design Parales design processes tables and barding what I be instimuted by employing processor (automatic design processes tables and DS 55, DG 56 CD and DG 27.12 as well as the CA NDM Environmental Design in Schudes contained and tables and	Ph 2-5: Architectural Design	DG55 DG06.02 DG27.12 GA NSW Environmenta I Design in Schools	DAB c15 GHG Emissions Reduction	I. Thermai modelling report         L. A built evidence demonstrative         La double evidence demonstrative         cooling / heating         Larative design         relating         Larative design         relating         assive design         relatives         reperted         report         relative         relating         relating	Y		Phase 3 - Architectural design drawings with passive design principles included. Sun hood in North facing windows Phase 3 - Thermail modelling report completed. Minimal walls to E.W. Cross ventilation. Perforated screens to northern windows considered	ESD/Architect
t on climate change	Exercy efficient lighting design and modelling LED lighting much as included and the second	Ph 2-5: Services Design	DG2.3.1 DG63.01 DG63.04 DC63.05 DG63.03.02	DAB c15 GHG Emissions Reduction	1. Lighting drawings 2. Lighting specifications / schedules 3. Lighting modelling report showing compilant power densities	NA		Phase 3 - N/A at this stage. It will be devloped at Phase 4	Lighting designer
t on climate change	<b>Lighting cordin and without</b> <b>Lighting cordin and without</b> the use of lighting cordinal waters in substantially improving energy efficancy on stars, and should be considered for all new lighting systems, in new link or site of releases of 0.05.05. Construct Lighting cordinal basic basing the software and software of 0.05.05. Construct Lighting cordinal basis (the software is all requerements of 0.05.05. Construct Lighting cordinal basis) styles. Construct Lighting are incommoded given their administration starshould be discussed and basis (the software is the software is the software is the software starshould be discussed and the software is the software is the software is the software is the software with the software is the sof	Ph 2-5: Services Design	DG63.06 DG63.07 DG65.03.01	DAB c15 GHG Emissions Reduction DAB c4 Building Information	I. Electrical & lighting drawings showing which groups an adort in contact which groups are adort in contact complant power dentities (groups power dentities human minute	Y		Prace 3 - Added as notes and it will be infouded in the schematic drawings at Phase 4	Electrical
t on climate change	Earling of Ident spectraces. Exceptioned Interfaced spectraments are leaded to the spectra of the spectra efficiency cardination and the lead of SILP with cystem must be under an issue freedomic functionality for earling conservation (Mark Spectra must be under an issue freedomic functionality for earling) conservation (Mark Spectra must be under an issue freedomic functionality for earling) conservation band on whole of Ide cost analysis.	Ph 2-5: Services Design	DG2.3.3 DG55	DAB c15 GHG Emissions Reduction	<ol> <li>Schedule of appliances and equipment with their star ratings or performance standards, signed by head contrator or architect. All appliances and equipment required in the GEP must be listed, incl air conditioning equipment, electric motors, transformers, etc.</li> <li>Ap built mychanical digwings / statement</li> </ol>	NA		Phase 3 - N/A at this stage.	Mechanical /Electrical
t on climate change	Heat loss/gain The design must take steps to control heat loss from the building during coder winter months and heat gain during the warmer months. Refer to HVAC Design considerations in DG04.01	Ph 2-5: Services Design	DG04.01	DAB c15 GHG Emissions Reduction	Thermal moderning report     As built evidence demonstrating that     model is an accurate representation of the     building     Specifications/ calculations supporting     addition issue	NA		Phase 3 -Thermal modelling report	ESD
t on climate change	Index environment controls Both the thermal control and index air quality shall be controlled automatically within specified parameters. Controls type: The parameters and the source of the source	Ph 2-5: Services Design	DG55 DG 55.01 Thermal Comfort and Indoor Air Quality Policy	DAB c15 GHG Emissions Reduction	<ol> <li>As built evidence demonstrating controls have been installed as required.</li> <li>Commissioning report / statement by head contractor confirming controls have been set as required</li> </ol>	Y		Phase 3 - Mechanical schematic design report and drawings	Mechanical
: on climate change	April concerned a concept A grid concerted scalar PV system must be installed in lines with DDBG requirements. Where feasible, PV systems shall be installed to offset as much of the electricity consumed by the school as is practicable	Ph 2-5: Services Design	DG2.3.4 DG55	DAB c15 GHG Emissions Reduction; DAB c16 Peak Electricity Demand Reduction	1. As installed drawings of PV system 2. Energy modelling report showing renewable energy generation	Y		Phase 3 - the option for 99kW ( to consider additional 12 classrooms) under evaluation. At the moment, electrical drawings are showing 70kW in accordance with SINSW standard for PV Systems. This will be reviewed and updated at Phase 4.	Architect/Electrical
on climate change	Retary Storage System A bittery energy storage system that only be despect in consultation with SROW Sustainability wataring thy comprising sets rate of a se	Ph 2-5: Services Design	DG66.8.3	DAB c15 GHG Emissions Reduction; DAB c16 Peak Electricity Demand Reduction	As installed drawings of battery storage system	N		Phase 3 - N/A	Electrical
: on climate change	Heater Barry barrier generation over gas heating. Where gas heating is considered, it must be approved by SIGEV Standarding Harrier geopenet must be designed from a whole of the prospective and -seport standards design process explorational evolution of action entations design prioritized.	Ph 2-5: Services Design	DG56	DAB c15 GHG Emissions Reduction	If reverse cycle air conditioning is installed, confirmation that gas heaters are not installed, OR 2. Evidence that the gas heaters installed are energy efficient	¥		Phase 3 - No gas heating - It will be all electrical. Captured in Schematic mechanical design report and drawings	Mechanical
on climate change	Water haters W-let water and simplered water generation for schools must be carefully considered to ensure that a Whole of UR accesses this substratem to minimum life cycle costs and carbon emissions to accommonize the index of goings cuch as sub-let accessing. If water and resized is a determined energy courses to minimum energy courseption.	Ph 2-5: Services Design	DG53.09	DAB c15 GHG Emissions Reduction	1. WOL cost assessment for hot water systems 2. Hydraulic drawings/ichematics showing Installed DHW systems	N		Instal 4 - 1 fet not water systemic win be instantaneous exister; manaing no stored water is required. Solar heating in ort an option, and heat pumps have not been selected to avoid the circulating pumps, and lectric hoosets for hot circulating pumps, and lectric hoosets for hot water unst. (HWU). This approach minimizes both life cycle costs and carbon emissions. The Whole-of-Life (Wod) assessment will be remented without the design Remission.	Hydraulics
lid resilience	Sta howeignation for realisese the following statistic and control unvery ( information should be considered in developing the business case: -Stopp, diracted and the statistic and the statistic and the statistic and the statistic and the -Stopp, diracted and the statistic and the statistic and the statistic and the statistic and the -Businer main statistic and the statistic and the statistic and the statistic and the statistic and the -Rupper and and the statistic and the statistic and the statistic and the statistic and the -Rupper and the statistic and the -Rupper and the statistic and the statistic and the statistic and the statistic and the -Rupper and the statistic and the statistic and the statistic and the statistic and the -Rupper and the statistic and the statistic and the statistic and the statistic and the -Rupper and the statistic and the statistic and the statistic and the statistic and the -Rupper and the statistic and the -Rupper and the statistic and the -Rupper and the statistic and the -Rupper and the statistic and the -Rupper and the statistic and the statist	Ph 1: Site Selection and Masterplan	DG03.02	DAB c3 Adaptation and Resilience	<ol> <li>Detailed reports or surveys developed</li> <li>Livitoronmental ink report</li> <li>Livitoron demonstrating recommendations have been implemented and risk addressed through design responses.</li> </ol>	N		Phase 3 - N/A	Surveyor

Build resilience	Building protection Development applications on build him prove land must be accompanied by a Build Fire Assessment Report demonstrating compliance with the sim and objective of Planning for Build Fire Postessment Report demonstrating compliance with the sim and objective of Planning for Build Fire Postessment Report demonstration and the Simon Campositie above can provide above on the design of buildings in build fire pro- teriors. The Building Code duration and Ad3390° Constrations on the design of buildings in build re- teriors. The Building Code duration and Ad3390° Constrations on the design of buildings in building and the sime of the	Ph 1: Site Selection and Masterplan	DG13.01	DAB c3 Adaptation and Resilience	<ol> <li>Bush fre assessment report</li> <li>Statement by Archited / He consultant dening budget strategic report of the second strategic budget in the second strategic report of the second management in second strategic budget in management measures implemented</li> </ol>	N	Phase 3 - RJA	Fire Consultant
Build resilience	Create design adaptation: Site and choice commonstream task bets to withstand natural and urban hazards and adaptively respond to clineate change over time, especially for projects: Involving walverable communities a.g. clinnate priorating clineate changes over time, especially for projects: Involving walverable communities a.g. clinnate provides and economic costs of interrupted operation and repaining or replacing damaged assets. To achieve thus, historical resulting of the stand hazard must be consolitated in the stand standard of the associated to achieve the standard of the standard of the standard of the standard economic costs of interrupted operation and repaining or replacing damaged assets. To achieve thus, historical are budgeted. The associated to active the standard operation of the standard of the standard of the standard material resistance of the standard associated and beam that and the standard of the standard the associated to active the standard operation of the standard operation of the standard operation the associated to active the standard operation of the standard operation of the standard operation the associated to active the standard operation. The thesperemental fixed on Clinadard Damage (IRC) endorsed emissions scenarios should be used to dictate the associate clinadard theory in the succession of the standard operation operation. Hence application that is releafind to the time transition clinadard theory information successions that undertaking Any Might or extreme raisis identified must be addressed through design massures.	Ph 1: Site Selection and Masterplan	DG02.08	DAB c3 Adaptation and Resilience	L Climate ruk assessment, and Z. Climate adaptation plan A. Timegency management plan	Ŷ	Place 3 - CCM, report completed at Place 1	ESD
Build resilience	Weather protection Circulation areas provided between administrative, staff and all student spaces (except Agriculture), should be protected from sur, rain and unfavourable winds.	Ph 2-5: Architectural Design	DG08.05	Not covered in Green Star	As built drawings showing circulation areas are protected as required	Y	Phase 3 - Architectural drawings	ESD
Build resilience	Urban Next Hand Mitigation - Noof Calcer Ther root close will also have an impact on the thermal performance of the root, therefore the product's Solar Matchicanic indice (IDI) House be considered to mitigate the heat shard effect. The product selected must meet the following these year Solar Reflectance Index (IDI) requirements: For root pitch r. St. minimum SB of 4 For root pitch r. St. minimum SB of 54 Where a three-year Sol is a Quality, the following requirements must be met: For root pitch r. St. minimum SB of 62 For out pitch r. St. minimum SB of 78 For out pitch r. St. minimation	Ph 3-4: Product and Material Selection	DG20 Fabric	DAB c25 Heat Island Effect	<ol> <li>Site Pain highlighting all relevant areas as referenced within the area schedule;</li> <li>Area Schedule listing the areas of each of the relevant site devents and where relevant, the devents and where relevant, the devents and where relevant, the devents and where and areas and the site, and devent for compliant roofing and hardiscape materials.</li> </ol>	У	Plaze 3 - Apper NCC requirements, light colour roofs will be specified.	Architect
Consume responsibly	hadding our of cada hadding our of cada hadding our of cada to evable the clerk to understand the building systems and operate systems to maximize efficiency. This must - Careary and according sector the regression of building and its survivas - Data? and according sector building and and according and according and according - Data? and according the according and according and according accordin	Ph 7-9: Construction, Commissioni ng Post Occupancy and Operation		DAS c4 Building Information	1. Building user's guide	NA	Phase 3 - N/A	Contractor
Consume responsibly	Stormwater management Must aim to minimise the transportation of toxicants to waterways and other offsite environments, and maintain the existing hydrological regimes. Due diligence for flooding must be done early to inform building and landscaping design	Ph 1: Site Selection and Masterplan	DG2.4.3	DAB c26 Stormwater	Stormwater modeling report showing stormwater pollution and flows.     Civil / Hydraulic drawings showing management measures.	Y	Phase 3 - Modelling is progressing on the site, with pollutant reductions targeted in accordance with Maitland City Council Guidelines:	Cwil
Consume responsibly	proteining aper certainment protection informations approximate protection with the Development, Application for Education Facility average from the included with the Development Application for Education Facility average from the includes Application facilities - Severage systems or works (including cackage severage treatment plants) - Severage systems or works (including cackage severage treatment plants) - Severage systems or works (including cackage severage treatment plants) - Severage systems or works (including cackage severage treatment plants) - Severage systems or works (including cackage severage treatment plants) - Severage systems or works (including cackage severage treatment plants) - Severage systems or works (including cackage severage treatment plants) - Severage systems or works (including cackage severage treatment plants) - Severage systems or works (including cackage severage treatment plants) - Severage severage severage treatment plants) - Severage severage severage severage treatment plants) - Severage severage severage treatment plants - Severage severage severage treatment plants - Severage severage severage severage treatment plants - Severage severage severage severage treatment plants - Severage severage severage severage severage treatment plants - Severage severage severage severage severage severage treatment plants - Severage sev	Ph 1: Site Selection and Masterplan	DG51.07	GSC c24 Integrated Water Cycle	What social was a second of     Water cycle management study     E-Evidence that recommendations in the     study have been followed / implemented	N	Total Surpooded Golde: 806	
Consume responsibly	Hazardoon materials Merer a new school is be bedreloped a Hazardoos materials study is to be conducted, including: Adaptetic containing Materials (ACM) - Adaptetic containing Materials (ACM) - Lead Pattet - Lead Pattet - Lead Pattet - Course Opgetmentation - Lead Pattet - Materials materials labele commencement of any removation or demotition. Impaction in Model Securities (American Materials Management Plan should be prepared Where hazardoos materials are found a Hazardoos Materials Management Plan should be prepared	Ph 1: Site Selection and Masterplan	DG48.01	DAB 24.2 Contamination and Hazardous Materials	L. Hazardous materiais study / site inspection report jsvrwy 2. Management pian for hazardous 3. Benediation strategies implemented 3. Benediation strategies implemented 3. Benediation strategies replicates / clearance certificates	¥	Place 3 - Contamination report	Contam specialist
Consume responsibly	Operational wate A wate storage areas must be included in all new school sites. The provision of space must include issure streams, including: - Consider includes: - Consid	Ph 2: Concept Design - Space planning	DG02.7.1	DAB c8 Operational Waste	Operational wate management plan Operational wate reports showing diversion rates	Y	Place 3 - Walling on waste management consultant to be engaged, Arch drawings will be motified up to show the waste collection area	Architect
Consume responsibly	Building flexibility Position structural members considering the future flexibility of the structure. Avoid ad hoc placing of columns internally, giving preference to uniformity in layout. Design all internal walls as non-load bearing to enable future flexibility.	Ph 2: Concept Design - Space planning	DG21.1.16	Not covered in Green Star	As built drawings or statement by relevant professional	Y	Phase 3 - Traditional layout. Layout is similar to MMoC - large spans, can increase areas	Architect
Consume responsibly	In product services and the service should be appreciated and the service should be appreciated and the service should be apporting the service should be apporting the service and the service should be apporting the service should be apported by the service should by the service should be apported by the service should b	Ph 2-5: Services Design	DG51.01	DAB c18 Potable Water	<ol> <li>Hydraulic report showing sustainability initiatives implemented to reduce potable water consumption</li> <li>As built drawings showing trade waste arrestors</li> </ol>	Y	Phase 3 - - Water-aving futures selected by the architect are expected to meet a minimum Green Star 4- tfar rating. - Trade waste will be treated by a grease arrestor, as required by authorities, and will be positioned for easy servicing. - Copper will be used for water plumbing.	Hydraulics / Architect
Consume responsibly	Where sub-metaring In addition to be main water metar for the site provide sub metars for the following: - Haboratory publicity: - Haboratory building: - Catherine - Any other major water use on the site	Ph 2-5: Services Design	DG53.04	DAB c6.0 Metering	1. As built hydraulic drawings	Y	Instation of the second sec	Hydraulics / Landscape

					<b>r</b>		r	
Consume responsibly	Reinwater collection Audion and water howering and rank obrage in new schools and where practical in existing schools to reduce the demand on drawing water supplies. Task water can connect to dia implicit systems for adjacent tandicape/gardions with the major preference being for gravity field space imminum coopies prevationance. The rainwater tanks much be connected to totiets for table flushing if this is not flaubility, approval must be garded by skiNNC.	Ph 2-5: Services Design	DG53.14 DG2.4.2 DG53.01	DAB c188.2 Rainwater Reuse	<ol> <li>As built hydraulic drawings showing tank connection to end uses and capacity</li> </ol>	Ŷ	Phase 3 - TBC The current design includes recommendations for rainwater harvesting as a value engineering exercise. However, connecting a rainwater tank to totlet for flushing may not be feasible due to the current design constantisti and considering considering that the totlets are equipped with dwe/hush systems which already contribute to water efficiency. This requires confirmation from SINSW	Hydraulics / SINSW
Consume responsibly	Fer system water reuse Where schools are required to install a sprinkler system for fire safety, it is recommended to install a closed loop system must be installed to capture and reuse fire systems testing and maintenance water, or by using an alternative non-potable water source.	Ph 2-5: Services Design	DG2.4.2	DAB c18B.5 Fire System Test Water	Fire engineering report	N/A	Phase 3 - N/A at this stage. It will be devloped at Phase 4	Fire Consultant
Consume responsibly	Ground water Where ground water is available for use for irrigation purposes in drought affected locations, enquiries must be undertainen with the Department of Planning, Industry and Environment to determine the suitability of a ground water system.	Ph 2-5: Services Design	DG53.03	DAB c18 Potable Water	1. Relevant due diligence report / investigation	NA	Phase 3 - N/A at this stage. It will be devloped at Phase 4	Hydraulic
Consume responsibly	Trade waste Arrestors for acid, grease, plaster and clay of adequate capacity must be installed to treat wastewater from science laboratories, kitchens, art rooms and canteens as required in DS52.	Ph 2-5: Services Design	DG52	Not covered in Green Star	As built drawings showing trade waste arrestors or     Letter by Hydraulic Engineer confirming arrestor have been installed as required	NA	Phase 3 - N/A at this stage. It will be devloped at Phase 4	Hydraulics
Consume responsibly	Water There articles and a top of the following minimum WES strings: - Topwate to Star flow realize requirements - Solvents to Nue 3 and the realize requirements - Water Count of the star flow rating requirements - Water Count of the star flow rating requirements - Water Count of the star flow rating requirements - Top with there of the star flow rating requirements - Top with there of the star flow rating requirements - Top with there of the star of the star flow rating requirements - Top with there of the star of the star flow rating requirements - Top with there of the star of the star of the star of the star star - Top with there of the star of the star of the star of the star star - Top with the star of the star of the star of the star star - top with the star of the star of the star of the star of the star star - top with the star of the star of the star of the star star - top with the star of the star of the star star - top with the star of the star of the star star - top with the star of the star of the star star - top with the star of the star of the star star - top with the star of the star of the star star - top with the star of the star star star star star - top with the star of the star star star star star - top with the star star star star star star - top with the star star star star star star - top with the star star star star star star - top with the star star star star star star - top with the star star - top with the star star star star star star - top with the star star star star - top with the star - top with the star star - top with the star - top wit	Ph 3-4: Product and Material Selection	DG53.02 DG2.4.1	DAB c188.1 Potable Water - Sanitary Fisture Efficiency	<ol> <li>Schedules of materials, futures, fittings and equipment with WELS/WaterAtark ratings, demonstrating compliance and identifying those with flow restrictors and timed flow.</li> </ol>	NA	Phase 3 - N/A at this stage. It will be deviceed at a later stage	Architect
Consume responsibly	Life cycle assessment (environmental) Environmental impacts of products and materials has been assessed and inform material selection	Product and Material	DG01.03	DAB c19A - Life cycle	Life cycle assessment report	NA	Phase 3 - N/A at this stage. It will be devloped at a later stage	ESD
Consume responsibly	Notice of the costing (woo) Social case of a costing (woo) section of the costing and the costing and the costing and the costing analysis. When colcateling the work of the cost for the different materials / building elements or systems, the following must be considered. In the total initial case of the cost for the different materials / building elements or systems, the following which is considered. In the total initial case of the systems' - totaloning design, project management, building a which works and the systems' - totaloning design, project management, building and which works and the systems' - totaloning design. In the cost case of the systems' - totaloning design and the system' - total which and the system' - total system' - total - studied in the system' - total system' - total system' - total - studied in the system' - total system' - total system' - total system' - total - studied in the system' - total system' - total system' - total system' - total - studied in the system' - total system' - total system' - total system' - total - studied in the system' - total syste	Ph 3-4: Product and Material Selection	DG01 All design guides for selection of materials and building systems	GSC c20 - Return on investment	Life gick coding report for relevant system	NA	Plase 3 - N/A at this stage. It will be developed at a later stage	
Consume responsibly	Statistable materials Calcitation materials must be selected based on the following: Adoptative and economically perform their intended functions, and also have lower adverse environmental match throughout their (locy cline for locs) Castatin reduced or no hazardous adoptations (e.g. bov VCC) to ensure effective indoor environmental quality. Matca the demodel or or a non-environmental exoracter. Hear low much demodel energy and watter.	Ph 3-4: Product and Material Selection	DG02.05	DAB c21 Sustainable Products	Environmental Product Declarations of products / materials used; Product certificates (Iile GECA, PSC, eds) 2. Suppliers' declarations confirming recycled contents in products 3. Bill of quantities	NA	Phase 3 - N/A at this stage. It will be devloped at a later stage	
Consume responsibly	Statianable timber - To aninforest timbers, or timbers from high convervation forests, are to be used unless plantation grown. Use only recycled timber, engineered and glued timber composite products, or timber from glantations or from sustainable managed regrows fromst stut be: <i>TCR_APS</i> or <i>PEFC</i> conterfield - All timber used is to be termite (white ant) resistant or treated to be termite resistant to the appropriate havard level.	Ph 3-4: Product and Material Selection	DG2.5.1 DG21.05.01	DAB c20.2 Responsible Building Materials - Timber	1. Evidence of chain of custody 2. Bill of quantities	NA	Phase 3 - N/A at this stage. It will be devloped at a later stage	
Consume responsibly	Built for disassembly Consider the use of building materials which are able to be disassembled for re-use, in conjunction with considerations for the addition and removal of accommodation over time.	Ph 3-4: Product and Material Selection	DG02.07			NA	Phase 3 - N/A at this stage. It will be devloped at a later stage	
Consume responsibly	Concrete - Use naterials complying with AS based on the Whole of Life approach to materials selection. - Donot can be beccar or dolerity in concrete mise. - Fig van is, a manufacturing bi-product that can be used as a coment replacement but should limited to a maintem of 2XB's supplied is coment content.	Ph 3-4: Product and Material Selection	DG21.02	DAB c198.1	1. Structural specifications and drawings 2. Structural Engineer's report showing % cement replacement	NA	Phase 3 - N/A at this stage. It will be devloped at a later stage	
Consume responsibly	Construction waste Tragets must be exhibited to increase diversion of waste sent to landfil, with a minimum diversion rate arged of XXX. Consider opportunities for re-use and recycling of materials in the construction phase	Ph 7-9: Construction, Commissioni ng Post Occupancy and Operation	DG02.07	DAB c22 Construction and Demolition Waste	Construction waste reports showing percentage (minimum 90%) of waste re-used and recycled (diverted from landfill)	NA	Phase 3 - N/A at this stage. It will be devloped at a later stage	
Consume responsibly	Maintaneous in the second seco	Ph 2-5: Services Design	DG16.10 DG 01.04	DAB c2.1 Services and Maintainabilit y Review DAB c9.12 Ventilation System Attributes DAB c4 Building Information	<ol> <li>As built drawings including all equipment access arrangements for maintenance</li> </ol>	¥	Place 3 - Mechanical schematic design report and drawings drawings to be provided after Constructions stage and will be provided by the contractor	Mechanical / Contractor
Foster connections	Site investigations for place making / community connections - Leal environment / character / community control be considered in developing the business case: - Leal environment / character / - Comman and microcontrol and the community of th	Ph 1: Site Selection and Masterplan	DG03.02	GSC c12 Culture, Heritage and Identity DAB 24-2 Contamination and Hazardous Materials	<ol> <li>Relevant reports/surveys developed (these ideal) include recommendations for further development targens)</li> <li>Evidence demonstrating recommendations /best practice solutions have been implemented/addressed.</li> </ol>	¥	Naze 3 - Haritage report (european and non nurceon), First anteneon consultant invested geo tech report, contamination investigation, aboriginal reports	Architect

Fester connections	Excluded construction Schools sites must comment for Advere generations, the biological diversity of genetic materials, species and ecosystems on that site and consider the surrounding matural environment. An Excluded in Assembly the test of the prepared for the site in order to understand the existing conditions and federe conservation strategies. The design of the Exclision must provide unsign and valuable environmental communities intering strategies and the strategies of the strate should be equivalent to the strate of the strate of the strate strate should be added to the strate and exclosion the store is outdoor learning potential.	Ph 1: Site Selection and Masterplan	DG02.05	DAB +23 Ecological Value GSC +29 Ecological Value (incl Biodiversity Enhancement)	I. Indiversity or ecological associated () is the form and threas warwy (in the L. Cological Associated associated () is the second associated () is the second () is the second () is the advantum of the second () is the second () is the advantum of the second () is the second () is the policita and water quality and their policita and quality and the policital and the policital and the policital and the policital material and the policital and the policital policital and the policital and the policital policital and the policital and the policital policital and environmental where are and Societarity or this transitiant of the policital or the site transitiant of the policital or the site transitiont of the policital of the site the site of the site transition of the policital of the site the site transition of the policital of the site the transition of the policital of the site the site transition of the policital of the site the site transition of the policital of the site the transition of the policital of the site the site transition of the policital of the site the site transition of the policital of the site the site transition of the policital of the site the site transition of the policital of the site the site transition of the policital of the site the site transition of the policital of the site the site	Ν		Ecologist
Foster connections	Productive landscape Consider including opportunities for development of community garden within the site and relationships with community groups for this to occur.	Ph 1: Site Selection and Masterplan	DG2.06	GSC c14.2 Local Food Production	Site plan demonstrating location and size of community garden	Y	Price 3 - Hair Colla bernied out, as could be accessed after hours, Grounds open to the community weekends/after hours. Architects have designed for this to be incorporated but it is in concrution with SIMM	Architect/SINSW
Foster connections	Bicycle storage Provide 1 space for every 20 students to AS2890.3 standard	Design - Space	SG552 4.36	DAB c17 Sustainable Transport		Y	Phase 3 - Bicycle storage in architectural drawings. Further developed in other phases. SHAC to check if this is incorporated in drawings	Architect
Foster connections	Community use of facilities Some school facilities are used out of hours for activities such as weekend church groups, sport events and public meetings. Lines with the hospical Director to gain an understanding of any duared use, or community use arrangements that are being considered for the site. New school should be directored for the site.	Ph 2: Concept Design - Space planning	DG16.08 Department of Education's Community Use of School Facilities Implementati on Procedures	DAB c30B Community Benefits	In communities or your accurate that unret access has been provided to open space and any other facilities that could be shared with the community. 2. A list of community engagement activities undertaken to develop a community benefits strategy. 3. Plans cleaving and yourling how the outcomes from the community lengths strategy have how interfament of the notice of the outcome.	¥	Phase 3 - Schematic design report by SHAC will have potential use for community egu Uhavi Jocketi in another entrance can be used after hours. BB court at the side - gates open policy for community to use it.	Architect
Foster connections	Can object such as a second of a students to access during necess, banch breaks and for outdoor learning. Chern ally space can be comprised of Final and grasses and strenges - Booftongs and strenges - Easily accessible - Easily accessible - Easily accessible - Booftong and minimum - Boofton	Ph 2: Concept Design - Spage planning	DG10.03	Not covered in Green Star	Plan view drawings showing provision of open space	у	Phose 3 - 1002 per student open space/play space	Architect
Foster connections	Staff arom Staff arom: Shaff arom: Shaff arom Staff work and recreation, and facus on indoor environment quility, expendent environment environment = Variation = Variat	Ph 2: Concept Design - Space planning	EFSG Staff Unit	GSI c Amenity Space	1. Extracts from the EFSG requirements for staff rooms. 2. Evidence of staff room delivered accordingly	¥	Phase 3 - Standard configuration	Architect
Poster connections	Accordination action plane (BAP) The project hould adopt formalised steps to provide opportunities for Aboreginal and Tomis Strat Islander papels: Projects multi-interpretent strategies during design, construction and operation that contribute positively tomican's monorithment strategies and address scalar languages within the tomican's scalar languages to add non-indegroup activations, the project demonstrate and interpretent address scalar languages to add non-indegroup activations, the project demonstrate and interpretent address scalar languages to add non-indegroup activation, the add non-indegroup activation formation of indegroup activation from indegroups activation activation in the INSP Vesion of indegroup activation from indegroups activation activation in the size through a for a landorup from activation activation activation in the size through a for adverse finder to the four formation from indegroups acquires and where. Nefer to the INSV Vesion(int) with activative from indegroups acquires and where the first table in the INSV Vesion(int) with activative from indegroups acquires and where the first table in the INSV Vesion(int) with activative from indegroups acquires and where the first table in the INSV Vesion(int) with the INSV Vesion(int)	Ph 2-5: Architectural Design	Department of Education's Reconciliatio n Action Plan NSW Government Aboriginal Procurement Policy GANSW 'Designing with Country' discussion paper x	DAB c30D Reconciliation Action Plan	<ol> <li>Exidence of the project's relationship with the 840 × 6 g actions implemented in line with 840°, etc.</li> </ol>	NA	Proce 1 - N/A at this stage, It will be developed at a later stage	Architect
Foster connections	Security Security in Oscipano d Crime Prevention Through Environmental Design (CPTED) principles are to be implemented in project principations, status, and a security of the security of the design phase. CCTV systems are required in several locations where indicated in the Rooms and Spaces Technical Data table, midding: - Princips you ktaby - Informy - Statay.	Ph 2-5: Services Design	DG14.10 DG65.08 DG65.10	GSC c15 Safe Places	<ol> <li>Crime risk assessment or equivalent</li> <li>Evidence of designing out crime principles implemented</li> <li>Security survices plans, schedules and forms by School Security Unit (SU)</li> <li>SUS specification and evidence of input on project specification</li> </ol>	NA	Phase 3 - N/A at this stage. It will be devioped at a later stage	
Foster connections	Digital infrastructure New buildings and refurbiblements are required to provide a common wireless solution compatible across the school, providing consistent user experience and support mechanism. This involves the replacement of existing legacy wireless equipment, such as wireless access points and site witches	Ph 2-5: Services Design	DG64.12.02	GSC c22.2 Digital Infrastructure	<ol> <li>Contracts describing the network infrastructure specification and operational requirements</li> </ol>	NA	Phase 3 - N/A at this stage. It will be devloped at a later stage	
Foster connections	Statistable Transport Reaving / Transport Assessment Transport jakening must prioritize the delivery of feasible, connected networks and rectify transport deformion The 5 dood Transport Assessment process must prioritize critical transport indivativus to address school transf demand consecutions and school prioritize delivery and the assessment service to address school travel demand con particular prioritize transport has assessment services to address school travel demand con particular prioritize transport assessment services to address school travel demand con particular prioritize transport mode said restandent transport modes and restanding con particular prioritize transport modes and restandent travel particular prioritize transport modes and restandent travel particular prioritize travel particular prioritize travel particular prioritize travel particular prioritize travel particular particular travel particular particular travel particular tr	Ph 1: Site Selection and Masterplan	Schools Transport Practice Note	DAB c17 Sustainable Transport	<ol> <li>Intergraph Assessment, which impact appreciations A neeker of the schedul stavel demand; the schedulinear of transport modes to the schedulinear of transport modes to proceeding; construction and point required to meet schedulineary modes the schedulinear of transport imporvements required to meet schedulineary modes plan, Contruction Traffic and Pederinian Management Filma and Travel Film; A kchoot to address road safety concerns; extent A schedulineary modes and the schedulineary modes A schedulineary modes and the schedulineary modes the schedulineary modes and the schedulineary modes A schedulineary modes and the schedulineary modes and the schedulineary</li></ol>	N	Phase 3 - N/A	Transport Planner
Unlock human potential	Green dealing Designs should support the implementation of a Green Cleaning policy for the school, this may include: Appropriate cleaning areas are to be provided to safely store chemicals and equipment. Hand walking statistics Hand walking statistics Hand walking statistics Hand walking statistics Hand walking statistics Hand Walking and Hand Walking and Hand Hand Hand Hand Walking and Hand Hand Hand Hand Hand Hand Hand Hand Hand Hand Hand	Ph 7-9: Construction, Commissioni ng Post Occupancy and Operation	WoG Facilities h	GSP c6 Green Cleaning	1. WEB Clean School User Guide 2. Green Cleaning specifications	NA	Phase 3 - N/A at this stage. It will be devloped at a later stage	

Unlock human potential	Nambly contents price; the NEW Kalamy Kondo Canteens Strategy applies to al NEW Government schools (primary, secondary and central actional) with a canteen. Na school blood by an in encouraging kalamy distants of particular to help reduce childhood As such school canteens school be designed to encourage onsite preparation, storage, display and promotion of healthy leveryth code.	Ph 2: Concept Design - Space planning	Department of Education's Healthy Canteen Policy	DAB c30D Integrating Healthy Environments	1. Research report behind Healthy Canteen Policy 2. Evidence that policy initiative has been incorporated into the school under assessment.	NA	Phase 3 - N/A at this stage Achievable. TBC in other phases	SINSW
Unlock human potential	DeployEn an ended Consolineting sign and brightness contrasts must be avoided. Designers must seek to: - Eached end sublight from all learning spaces, libraines, administrative offices and all studies for the provide of 100mm 1.5 Ministration states of the studies of the state of the studies of the 12 kit March Tached end security and the studies of the studies of the studies of the studies of the studies - Instantiation and the studies of the studies of the studies of the studies of the studies - Instantiation and studies of the studies of the studies of the studies of the studies of the date must only be controlled by Ministra as but resert.	Ph 2-5: Architectural Design	DG12 DG07.01	DAB c12.0 Glare Reduction	<ol> <li>Daylight giate modeling report / son diagrams showing direct surgight has been excluded as required.</li> <li>Drawing surgering inputs of model, showing location of blinds and any other giare control device</li> </ol>	¥	Phase 2 - External perforated screens to cut glare out. Phase 3 - Daylight modelling report	ESD/Architect
Unlock human potential	Account: Performance briggs of internal spaces must address the following Accustic outcomes: - internal Note: Level: An internal noise level assessment must be carried out for all new buildings to ensure conferation assumed; conditions for the spaces excluded. The internal mode levels which the space must meet regulated to Table (1) the AdVCS 327022 Calamand. The more activated of the text building to ensure provide the Table (1) the AdVCS 32702 Calamand. The more activated of the text building to ensure the AdVCS and the AdVCS 32702 Calamand. The more activated of the text building to ensure the AdVCS and the AdVCS 32702 Calamand. The more activated of the text building the ensure that the space of the AdVCS 32702 Calamand. The more activated of the text building the ensure that the space of the AdVCS 32702 Calamand. The more activated of the text building the ensure that the space of the text building the ensure that the text of the text building the ensure that the text of the text building the ensure text of the text building the text of the text building the text of the text building the ensure text of the text building the text of te	Ph 2-5: Architectural Design	DG 11.06 DG 11.03 DG 11.02	DAB c10 Acoustic comfort	Report by qualified acoustics consultant demonstrating noise measurements are compliant.     Z. Detailed Drawings indicating sound insulation details and other relevant acoustic design features.	¥	Phase 3 - N/A at this stage. It will be devloped at a later stage	Acoustics
Unlock human potential	Note enables (b) the environment) densely reader and the environment) are the subject of a development construct from mechanical services scales sources (such as air conditioners) are the subject of a development construct conditions. In KWM development construct conditions will refer to the industrial lines of the (V)(W) or to cal Calcana requirement. Where no condition regarding roads sources enables for a structure of development, noise mission from such sources should be designed, in the projectio, to statify the requirements. If the biotechangement structure lines for the structures should be designed, the projectio, to statify the requirements of the biotechangements of the biotechangement structure lines for the structures.	Ph 2-5: Architectural Design	DG11.04	Not covered in Green Star	1. Report by qualified acoustics consultant	Y	Phase 3 - N/A at this stage. It will be devloped at a later stage	Acoustics
Unlock human potential	Py fee indexes Phy consengen must be provided in all schools to the doors, windows and other openings in food preparation, biology, and now water-closet tollet spaces or where specifically nominated in the USG. School in feedant for some of a school school school school and the USG. School in feedant for some of dopring safets	Ph 2-5: Architectural Design	DG31.01	Not covered in Green Star	As-built drawings showing fly screening has been provided as required	NA	Phase 3 - N/A at this stage. It will be devloped at a later stage	
Unlock human potential	Accessible Af new hord sector of 15, providence of the NKC and the associated standards. Af new hord (54.24), a the monitory associated for anxies, and mobility, However, it is GN's policy that any enhanced requestions noted in GA 142.24 is the comportant of an approximate standards. Additionally, DoE have enhanced contradictor regorements as stored in DG / CRCLATION model and the composition of the composition of any stored in CG / CRCLATION model and the composition of the composition of the composition of any stored in CG / CRCLATION model and the composition of the	Ph 2-5: Architectural Design	DG19.01 DG65.14	DAB 30D Universal design	Accessibility plan     Acbuilt drawings or other evidence     demonstrating that minimum and enhanced     accessibility requirements have been     provided for walkways, corridors, ramp, etc.     J. Photographic or other evidence of signage     installed	¥	Phaze 3 - Standard IESS receptements. Accessibility report and consulant engaged	Architect/Accesibility Consultant
Unlock human potential	Access to Views Building cosing must ensure that at least 60% of primary accogned spaces have a clear line of sight to high quality internal or external views. The space must be within first from the view. High paper of the standard standard standard standard standard standard standard standard standard internal views - indicated standard standard standard standard standard standard standard standard standard Internal views - indicated standard standard standard standard standard standard standard Internal views - indicated standard standard standard standard standard standard standard standard standard standard standard stand	Ph 2-5: Architectural Design	DG2.10	DAB c12.2 Views	1. Views Calculations and Mark-up this must be done in accordance with the GRA's Doplight and Views Hand Calculation Guide: https://www.gbca.org.au/upiloadi/179/35919/G reent/2024.ucida/straft/20Views/R2004 arXiV2.cc.ucidance.mcSouder/2004ws/R20043/s 204ELAKE.pdf)	¥	Phaza 3. Northern/southern windows overlook play spaces refer to GS guide	Architect
Unlock human potential	Access to by brown to financian actual darkpits in all learning and administration spaces to improve indoor amenity and create a pleasate environment and refeace energy range through windows and skriptits -Access to high how dark direction of an iteas 400 of million yancepairs agrees per flow. A space the space has minimum IED las dars to dayk, the nominated hours of the following requirements are met: with the space of the space of the space of the space of the space direction of the space of the space direction of the space of the space of the space direction of the space direction of the space of the space direction of the space and the space direction of the space direction of the space of the space direction of the space to direction of the space direction of the space direction of the space to direction of the space direction of the space direct	Ph 2-5: Architectural Design	DG2.3.1 DG12	DAB c12 Visual Comfort	<ol> <li>Daylight modelling report demonstrating and an analysis of the second second second at habitable sparse; and at habitable sparse; and a A bit of analysis demonstrating that the model accurately represents the building (i.e. b); and</li> <li>Specifications supporting inputs used in modelling (e.g. skylights and glass speci)</li> </ol>	Y	Place 2 - Concept design drawing: demonstrate access to daylight. This will be further explored through daylight modeling in next phase. Phase 3 - Daylight modeling	ESD/Architect
Welch human potential	Vertification and Index AF Gaulity The maximum Go2 concentration must not exceed  1.500pemfor more than 20 concentration must not exceed  1.500pemfor more than 20 concentration must not exceed  1.500pemfor more than 20 concentration with the Gaulity of the Gaul	Ph.2.5: Sorvices Design	DG57 01 DG05 04 DG05 05 DG05 05 DG57.16 DG55.18 DG05.02 DG57.18 DG55.20 DG37 DG55.36 Thermal Comfort and Quality - Performance Brief	DAB c15 GHG Emissions Reduction	<ol> <li>Cooling system strategy including WOL analysis</li> <li>Concept planet</li> <li>The based spectra (Sector)</li> <li>A trabe based spectra (Sector)</li> <li>A trabe based spectra (Sector)</li> <li>A ball drawnys, including indication of windows and cross ventilation</li> </ol>	¥	Plass1 - Will comply with Green Star 10.2 Credit which in more stringers than 1300pm, Refer to arbitrary and the stringer string of the downger. We don't have roof ventilator	Medunical

Unfock human potential	Index control. Content is factorial by each to determine the orientation of luminaters. Expectibly when positioning turnatures in Materials Technologie passes benerin delegate informations on matchines and wet surfaces. The second preferst attraction of the second on delegate with methods on the second preferst attractions of the second on delegate with the second of more and wet Hall, is improve luminator uniformity and reduce direct gives in the decision of normal view. The standard lange objection (CIII) for effect success much be information and wet the freque Guide the second second and the second second second second second second second second second second and the second second second second second second second second second second and the second second second second second second second second second second and the second second second second second second second second second second and and and and and and and and and and	Ph 2-5: Services Design	DG63.03	DAB c11 Lighting Comfort DAB c11.1 General Illuminance and Glare Reduction	L. Lighting disrungs L. Achterica di savings L. Achterica di savings A molaci e di sa divers di producti di sa divers di producti di sa divers Lighting modaliti report Houng compliant uniformity and UGIs	NA	Phone 3 - N/A at this steps. It will be devloped at Phase 4	Lighting designer
Unlock human potential	The mail confert. The mail confert. 23. Shools with a long term average man mamma imany temporture of 30 cC and above. Conversity, air conferences with a long term average man mamma imany temporture of 30 cC and above. Conversity, air conferences with a long term average man mamma temporture properture of below 33cC to conditioning is to be installed in all permitted in the shool ladies. The conditioning is to be installed in all permitted installed buildings of the shool ladies. The conditioning is to be installed in all permitted installed buildings of the shool ladies. The conditioning is to be installed in all permitted installed buildings of the shool ladies. The shool ladies is the shool ladies of the shool ladies	Ph 2-5: Services Design	DG06.03 DG55.01 DG55.02	DAB c14 Thermal Comfort	Intercentration areanges moreigneeved     intercentration and an end of the second action and action acti	¥	Phase 3 - Mechanical schematic design report and drawings	ESD/Mechanical
Unlock human potential	Microbial control As a measure to provent legionella, heated water to hand basins, showers etc. shall be stored at temperature above GC. The measure mining values are to be used for temperad water generation at each point of use. Values used to comply with microbial distribution requirements. <sup>2</sup> Code of Practice for Thermostatic Making Values 1907 as approach by he 1904 heat to partners.	Ph 2-5: Services Design	DG51.09 DG53.11	DAB c28 Microbial Control	<ol> <li>Letter by hydraulic engineer confirming hot water is stored above 65 deg and that valves comply with code of practice.</li> </ol>	NA	Phase 3 - There is no stored water. TMV's are being specified.	Hydraulics
Unlock human potential	Extend access tighting terminal access tighting terminal access tighting that be provided to lluminosite building entrances, forspaths, whethered walkways, croadways and or grant. External Access tighting mutti- terminal and edispates to prevest give to prederize to prederize a start to motorist. Evidence of compliance with ASER2, AM/PES 1538 and other applicable Australian Standards must be provided by the degram. The start is a start of the start start of the start of the instruminate building mutting data (black start of the start of the start of the start of the -Highlight text of does. -Highlight text of the start of th	Ph 2-5: Services Design	DG63.08.01	DAB c27.0 Light Pollution to Neighbouring Bodies	<ol> <li>As built drawings indicating the location of all external luminaires</li> <li>Letter by lighting designer describing gare prevention measures</li> </ol>	¥	Phase 3 - Added as notes and It will be inicuded in the schematic drawings at Phase 4	Electrical
Unlock human potential	Case YUL-emitting measures and arther coatings, and other volatile organic compound (VOC) emitting products including adhesives, asalants, carpet (the, and carpet underlay, must be made from how VOC emission materials. Packet must neet the limits stipulated in the Australian Paint Approval Scheme's (JARA) (VOC limits for how VOC packs. "Priorit, adhesive and adultation must extra each maximum VOC intest Spatiated in the trene Star Balding range tool. — Carpet must net execute that uVOC limits signalated in the Green Star Baldings tool.	Ph 3-4: Product and Material Selection	DG2.5.2	DAB c13 Indoor Pollutants	1. Product specifications, certificates, safety datasheets that demonstrate low-VOC contents 2. Bill of quantities	NA	Phase 3 - N/A at this stage. It will be devloped at a later stage	Contractor
Unlock human potential	Low for analysis of the second	Ph 3-4: Product and Material Selection	DG2.5.2	DAB c13 Indoor Pollutants	1. Product specifications, certificates, safety datasheets that demonstrate low- formatdehyte contents Bill of quantities	NA	Phase 3 - N/A at this stage. It will be devloped at a later stage	
Unlock human potential	Assume grant encountery relations the Googgies operations and then inderstaten to assess the performance of recently completed or existing fractilies. Where a Paid Discipancy Database of selected accounts parameters only. Evaluation must include (as per the above criterial) per the above criterial per the above criterial per the above criterial per the above criterial performance - Joins executes, - Noise ensistion, - Boom sciencities, - Boom	Ph 7-9: Construction, Commissioni ng Post Occupancy and Operation	DG11.07	GSP c13 Internal Noise Levels	1. Commitment by 9 to conduct acoustic post- occupancy evaluation	NĂ	Phone 3 - N/A at this stage. It will be devioped at a later stage	
Unlock human potential	Particle for exeminancests Schools must be designed, constructed and maintained, without using chemicals for termite and other pest control. No chemical posticides and termicale to be used. Preventive treatments to be by physical means and careful designs to minimum risk.	Ph 7-9: Construction, Commissioni ng Post Occupancy and Operation	DG2.5.3	Not covered in Green Star	Statement by head contractor that no pesticides or termites have been used.	NA	Phase 3 - N/A at this stage. It will be devloped at a later stage	
Unlock human potential	Nuclehy Places The design of project should address five key principles for Healthy Places, as defined in Green Star Communication Communicati	Ph 2-5: Architectural Design	DG2.5.4	Healthy Places (GSC 9.2)	<ol> <li>Narrative providing examples of how each principle is being addressed, with examples from the Masterplan Report and Traffic/Transport Plan</li> </ol>	¥	Place 3 - Walkability - easy access to site from multiple entries Bios parking/isotropy diversified from street. from tage, screep with a the front where parents can wait. Connecting to Country - elders are welcoming - yarning circles	Architect