

# Sustainable Development Plan

Upgrade to Cammeray Public School Department of Education

CONFIDENTIAL

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#### **VERIFICATION**

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#### **CHANGE LOG**

REVISION	VERSION	COMMENT
2.0	Schematic Design	General updates to reflect design development
2.1	Schematic Design	Minor updates to reflect comments received
2.2	Schematic Design	Minor updates to reflect comments received
2.3	REF Submission	Updates as per stat planning comments



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## 1 PREAMBLE

## 1.1 PROPONENT

The Department of Education (DoE) is the landowner, proponent and determining authority pursuant to Section 5.1 of the Environmental Planning and Assessment Act 1979 (the Act).

## 1.2 INTRODUCTION

This Sustainable Development Plan (this is equivalent to an ESD report) has been prepared to support a Review of Environmental Factors (REF) for the Department of Education (DoE) for Cammeray Public School upgrade (the activity).

The purpose of the REF is to assess the potential environmental impacts of the activity prescribed by State Environmental Planning Policy (Transport and Infrastructure) 2021 (T&I SEPP) as "development permitted without consent" on land carried out by or on behalf of a public authority under Part 5 of the Environmental Planning and Assessment Act 1979 (EP&A Act). The activity is to be undertaken pursuant to Chapter 3, Part 3.4, Section 3.37 of the T&I SEPP.

This document has been prepared in accordance with the Guidelines for Division 5.1 assessments (the Guidelines) by the Department of Planning, Housing and Infrastructure (DPHI) as well as the Addendum Division 5.1 guidelines for schools. The activity is to be undertaken pursuant to Chapter 3, Part 3.4, Section 3.37 of the T&I SEPP and in consideration of the stakeholder and community participation plan. The proposed activity is for upgrades to the existing CPS at 68 Palmer Street, Cammeray NSW 2062 (the site).

The purpose of this report is to detail the sustainability strategy of the proposed development, in order to address the minimum requirements set out in the following:

- Clause 193 of Division 5 of the Environmental Planning and Assessment Regulation 2021
- DoE Sustainable Development Practice Note
- DoE Education Facilities Standard and Guidelines (EFSG)
- Government Architect NSW (GANSW) Design Guide for Schools and Environmental Design in Schools
   Manual
- NSW Government Resource Efficiency Policy (GREP) 2019

### 1.3 SITE DESCRIPTION

CPS is located at 68 Palmer Street, Cammeray on the northern side of Palmer Road, bound by Palmer Street to the south, Bellevue Street to the east and Miller Street to the west. The site has an area of 1.36 ha and comprises 11 allotments, legally described as:

- Lot 11 DP 837836
- Lot 1 DP 316130
- Lot 1 DP 316706
- Lot 1 DP 123406
- Lot 2 DP 174370
- Lot 1 DP 174370
- Lot 4 Sec 35 DP 758790
- Lot 5 Sec 35 DP 758790
- Lot 66 DP 1049613
- Lot 3 DP 571310
- Lot 4 DP 571310

The site currently comprises an existing co-education primary (K-6) public school with 6 permanent buildings, 3 demountable structures, covered walkways linked at multiple levels, play areas, on-grade parking, sports court, covered outdoor learning area (COLA) and vegetation/green spaces with mature trees.

The existing school buildings are clustered towards the southern portion of the site and comprise both single and 2 storey buildings. The northern portion of the site contains the sports court, vegetable garden and play equipment. The north-western portion of the site is heavily vegetated with trees of high landscape significance that are protected with fencing.



The site is identified as a locally listed heritage item (10019) under Schedule 5 Environmental Heritage pursuant to the North Sydney Local Environmental Plan 2013 (NSLEP). The school is also identified in the Plateau Heritage Conservation Area (HCA) (Part 2 Schedule 5 of the NSLEP). The school is listed on the Department of Education (DoE) Section 170 Heritage Conservation Register as 'Cammeray Public School.' The site is approximately 115m from a State heritage item (10004) being the electricity substation at 143 Bellevue Street and in close proximity to locally heritage listed items.

Refer to Figure 1 for overview of the site location

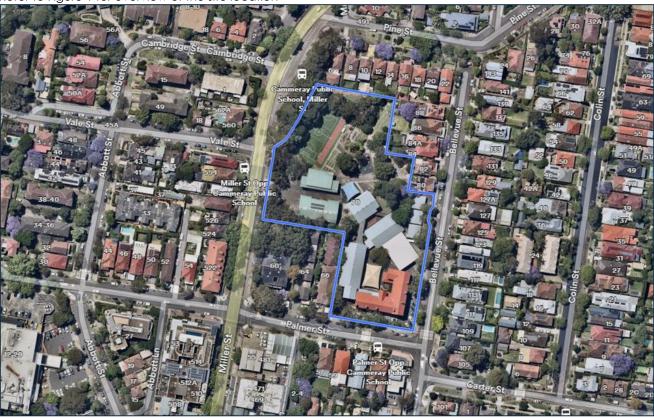


FIGURE 1 - AERIAL PHOTOGRAPH

## 1.4 PROPOSED ACTIVITY DESCRIPTION

The proposed activity involves upgrades to the existing CPS, including the following:

- Construction of 4 new permanent teaching spaces in a two-storey building incorporating 2 general learning spaces and 2 practical activity areas
- New egress lift and stairs for access to all building levels
- External covered walkways connecting the new building to the existing school network
- Landscaping and external works including compensatory planting
- Upgrades to site infrastructure and services to support the new buildings
- 50 bicycle parking spaces

The intent of the activity is to provide 4 permanent teaching spaces (PTS) plus 2 practical activity areas (PAA) across a two-storey addition, adjoining Building E. This will result in CPS retaining the capacity of a 'large' school (553-1,000 students) under EFSG (DoE Education Facilities Standards and Guidelines).

Refer to Figure 2 - Schematic Site Plan for an overview of the proposed development.



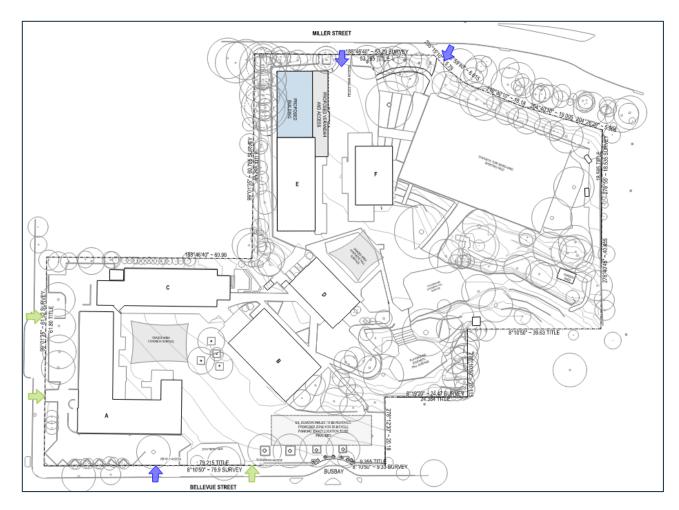


FIGURE 2 - SCHEMATIC SITE PLAN

# 1.5 MITIGATION MEASURES

TABLE 1 MITIGATION MEASURES

MITIGATION NAME	MITIGATION MEASURE	REASON FOR MITIGATION MEASURE
Ecological and Biodiversity	Protect and enhance ecological and biodiversity value	Minimising local impacts and maintaining a connection with nature through urban green spaces
Light Pollution	Minimise negative impacts of light pollution	Minimise negative impacts on the local fauna through excessive light pollution

# 1.6 EVALUATION OF ENVIRONMENTAL IMPACTS

It is noted that Sustainability (ESD) does not produce designs, they coordinate and input our requirements into the designs of other disciplines (i.e. sustainability items are expressed through the architectural, mechanical, electrical etc. design). Evaluation of Environmental Impacts are detailed through relevant discipline reports.



## 2 EXECUTIVE SUMMARY

NDY has been engaged by Department of Education (DoE) to develop a Sustainable Development Plan (SDP) for the upgrades to Cammeray Public School.

The principal objective of this report is to address the minimum requirements set out in the following:

- Clause 193 of Division 5 of the Environmental Planning and Assessment Regulation 2021
- DoE Sustainable Development Practice Note
- DoE Education Facilities Standard and Guideline (EFSG)
- Government Architect NSW (GANSW) Design Guide for Schools and Environmental Design in Schools Manual
- NSW Government Resource Efficiency Policy (GREP 2019)

The project will be designed and delivered in line with the standard DoE sustainability brief, detailed in the DoE Sustainable Development Practice Note, with key scope including:

- DoE EFSG compliance
- NCC Section J compliance

Through early design input from sustainability professionals, key initiatives incorporated in the proposed activity include:

- Passive design elements, such as high-performance façade, effective shading and natural ventilation to reduce the energy demand of the buildings and improve indoor environment quality for students and staff.
- Energy efficient building systems and on-site renewable energy to reduce greenhouse gas emissions.
- Consideration of the building design's resilience and adaptation to climate change impacts.
- High indoor air quality, acoustic design principles, visual amenity and thermal comfort to support the site
  functions as training and teaching spaces and private staff areas.
- Best practice waste management principles in operation, and construction and demolition waste diversion from landfill.
- Water efficient fixtures and fittings (high WELS ratings)
- Incorporation of stormwater management systems and water sensitive urban design (WSUD) to minimise pollutants.

The ESD initiatives of the proposed activity is verified through the ESD schedule coordinated with the design team and verified by the DoE and the D&C Contractors.



#### **PROJECT SUMMARY** 3

#### 3.1 **INFORMATION SOURCES**

The following information sources have been used in the preparation of this report:

- Clause 193 of Division 5 of the Environmental Planning and Assessment Regulation 2021
- NSW Department of Education School Infrastructure documents:
  - Sustainable Development Practice Note
  - Education Facilities Standard and Guidelines (EFSG) Design Guide
  - **GANSW** Design Guide for Schools
  - GANSW Environmental Design in Schools Manual
  - **DFMA** Guidelines
- NSW Government Resource Efficiency Policy (GREP) 2019
- National Construction Code (NCC) 2022 Section J
- Architectural drawings prepared by Fulton Trotter Architects
- Discussions and feedback with the design team.

The school is located within climate zone 5 – warm temperate conditions, which is associated with:

- Moderate diurnal ranges with more uniform temperature throughout the year
- Mild summers with average maximum temperatures ranging from 26° to 30°C
- Cool to cold winters with a peak of rainfall
- Hot dry summers
- Moderate humidity



## 4 SUSTAINABILITY PRINCIPLES

The following section of the report details how the proposed development responds to the relevant sustainability principles as defined in Clause 193 of Division 5 of the Environmental Planning and Assessment Regulation 2021.

## 4.1 THE PRECAUTIONARY PRINCIPLE

The design has been reviewed against holistic sustainability principles to ensure a robust sustainability outcome is delivered. The sustainability initiatives proposed for the upgrades to Cammeray Public School aims to reduce the environmental impacts typically associated with buildings during the construction and ongoing operation of the building.

Sustainability measures have been incorporated, spanning across the activity's design, construction and operations, based around the core principles of:

- Efficient use of resources (energy, water and materials)
- Enhancing indoor environment quality and occupant comfort
- Minimising ecological impacts.

The head contractor will implement an Environmental Management Plan (EMP) ensuring there will also be a systematic approach to environmental considerations throughout construction.

A climate change risk assessment was scheduled for November 2024 and assessed the anticipated impacts of climate change and implement design strategies to mitigate these impacts. Refer to Section 7 for details.

# 4.2 INTER-GENERATIONAL EQUITY

Student and staff health has been considered through the incorporation of indoor environmental quality design features such as daylight and glare analysis for natural lighting, best-practice lighting design, indoor air quality, thermal comfort assessment, acoustic design, and responsible material selection to reduce internal pollutants and resource depletion for future generations.

In relation to cultural diversity, the activity will aim to incorporate the NSW Department of Education organisational Reconciliation Action Plan and use it as an opportunity to further embrace the objectives, including:

- Procurement of all materials and labour will be in accordance with the NSW DoE Aboriginal Procurement Policy and NSW DoE Main Works 21 Preliminaries Section 4.4 'Aboriginal Participation'
- A project-specific Aboriginal Participation Plan will be developed to monitor and report on the minimum Aboriginal participation requirements.

Universal design principles will be implemented to provide safe, equitable and dignified access for persons with disabilities. Conservation of Biodiversity and Ecological integrity

The proposed design considers design strategies to minimise the urban heat island effect, such as the use of light-coloured external finishes. High quality access to external views will be considered to increase student engagement with the natural environment.

Construction and operational environmental management systems and plans will be detailed and implemented by the head contractor.

# 4.3 IMPROVED VALUATION, PRICING, AND INCENTIVE MECHANISMS

Total cost of operation will be reduced through sustainable considerations to reduce energy, water and waste requirements, taking into consideration whole-of-life costing. The activity will ensure sustainable principles are extended to include value for money, fit for purpose, long term reliability/resilience and flexibility. Designing with the long-term operation of the building in mind will create further buy-in and cooperation from the operating stakeholders. Strategies to reduce operational waste have been considered such as the development of an operational waste management plan and separation of waste streams.



## 5 SUSTAINABILITY FRAMEWORKS & LEGISLATION

Relevant sustainability frameworks and legislation applicable to the proposed activity are detailed in the following sub-sections.

## 5.1 NCC SECTION J

The National Construction Code (NCC) is produced and maintained by the Australian Building Codes Board (ABCB) on behalf of the Australian Government with the aim of achieving nationally consistent, minimum necessary standards of relevant health and safety, amenity and sustainability objectives efficiently. Section J of the NCC Volume 1 sets out the minimum energy efficiency requirements for all commercial buildings in Australia.

The activity will achieve compliance with NCC 2022 (as required) Section J either through Deemed-to-Satisfy (DTS) Provisions, or a Performance Solution J1V2, J1V3 or similar.

# 5.2 EDUCATIONAL FACILITY STANDARDS AND GUIDELINES (EFSG)

The Educational Facilities Standards and Guidelines (EFSG) are intended to assist those responsible for the management, planning, design, construction and maintenance of new and refurbished school facilities. The EFSG is a suite of information compiled into Design Guides to aid in the planning, design and use of NSW Department of Education school facilities.

The guides aim to provide functional and durable facilities within a systematic whole of life, value for money framework that takes into account enhancement of learning and teaching, planning and development, sustainability and facilities management.

# 5.3 NSW GOVERNMENT RESOURCE EFFICIENCY POLICY (GREP)

The aim of the NSW Government Resource Efficiency Policy (GREP) is to reduce the NSW Government's operating costs and lead by example in increasing the efficiency of its resource use.

The policy intends to drive resource efficiency by NSW Government agencies in four main areas – energy, water, waste and air emissions from government operations. The policy describes measures to achieve set targets and minimum standards.

## 5.4 GOVERNMENT ARCHITECT NSW ENVIRONMENTAL DESIGN GUIDE FOR SCHOOLS

The Government Architect NSW (GANSW) released an Environmental Design in Schools Manual which illustrates a set of design principles as guidelines to follow for new development and expansion of schools. The design principles from the GANSW Design Guide for Schools include:

- Context, Built Form and Landscape
- Sustainable, Efficient and Durable
- Accessible and Inclusive
- Health & Safety
- Amenity
- Whole of Life, Flexible and Adaptive
- Aesthetics

## 5.5 ENVIRONMENTAL PLANNING AND ASSESSMENT REGULATION 2021

Environmental Planning and Assessment Regulation 2021 is a planning tool that captures NSW legislation relating to planning.

## 5.6 SUSTAINABLE DEVELOPMENT PRACTICE NOTE

The DoE Sustainable Development Practice Note outlines the framework for the integration of sustainable development principles in the planning, design, tender and construction phases for all School Infrastructure



projects. This framework is closely aligned to NSW Government policy positions and the United Nations Sustainable Development Goals.



# **6** SUSTAINABLE DESIGN

The proposed activity aims to go beyond minimum building requirements and provide a progressive sustainability outcome for the community. The sustainability principles adopted for the activity will contribute to the conservation of resources and future resilience, across the whole life cycle of the project; from construction, through to the operational phase.

The sustainability initiatives will be verified through the SINSW ESD Schedule v9. This verification applies to the proposed new building only.

This section of the report outlines the initiatives incorporated into the proposed activity in line with the EFSG requirements. Under each sub-category, the initiatives already incorporated into the design, and additional opportunities identified for further investigation have been outlined. These will be refined through further investigation in design activity.

Refer to Appendix 10.110.1 for the ESD Schedule outlining specific initiatives incorporated for the activity.

The ESD initiatives and associated relevant design details will be incorporated into activity contract documentation, noting that relevant details are still under development and will be further developed during later design stages. The head contractor will ultimately be responsible for ensuring compliance with all targeted EFSG ESD items.

## 6.1 RESPONSIBLE

#### 6.1.1 GENERAL PRINCIPLES

Responsible project activity principles outline design and construction practices which support the activity and integration of building performances and responsible construction practices. These practices and processes include;

- Guidance from sustainability professionals
- Responsible construction practices
- Commitments to performance (e.g. reducing building and operational waste).
- Pre-commissioning, commissioning and tuning
- Building information to facilitate operator and user understanding
- Metering and monitoring

#### 6.1.2 PROPOSED INITIATIVES

The following initiatives are currently included in the preliminary sustainability strategy, in order to ensure that the activity minimises its environmental impact through construction and operational management:

- DoE Commissioning and Temporary Schools Program reviews process to assist in advising, monitoring, and verifying the commissioning and tuning of the nominated building systems throughout the design, tender, construction, commissioning and tuning phases.
- Provision of building information to facilitate operator and user understanding of all building systems, and their specific operation and maintenance requirements and/or environmental targets
- Specialist waste consultant engaged to develop an operational waste management plan (OWMP).
   OWMP principles to be incorporated into the design in future project stages, including separation of waste streams (e.g. paper, cardboard, glass, plastics, toner cartridges, batteries, organics etc.) to facilitate reuse, recycling, composting, and overall waste reduction.
- Waste management plans for demolition, construction and operation of the site. Minimum of 90% of construction and demolition waste to be diverted from landfill.

#### 6.1.3 OPPORTUNITIES

In addition to the initiatives outlined above, the following initiatives are currently being explored:

- Development and implementation of a Responsible Procurement Plan
- Development of a project specific Environmental Management Plan (EMP)



## 6.2 HEALTHY

#### 6.2.1 GENERAL PRINCIPLES

Healthy, comfortable learning environments are vital for students and staff, particularly when they may require spaces that facilitate focus and engagement for a considerable amount of time. General principles include:

- High indoor air quality
- Acoustic comfort with noise levels suitable to the activities within each space
- Good lighting design and control that is suitable to the space and free from glare
- High levels of daylight amenity and views for visual interest
- Reduce harmful exposure to toxins from building materials and finishes
- Thermal comfort

#### 6.2.2 PROPOSED INITIATIVES

The following initiatives are currently included in the preliminary sustainability strategy:

- Passive design principles have been incorporated in the design, including high-performance building envelope, effective shading and building orientation, and natural ventilation openings to support comfortable and low-energy indoor environment quality.
- Acoustic consultant has been engaged to advise design to support the building's function as training, teaching and multi-purpose spaces for students, staff and community use.
- Best-practice lighting will be provided to improve lighting comfort via flicker-free, high-quality lighting that accuracy addresses the perception of colour within the space.
- High levels of daylight and external views are provided to regularly occupied learning and administration areas, to support high levels of visual comfort for building occupants. Detailed daylight modelling to be undertaken in future project stages. Refer to preliminary daylight modelling assessment for details.
- Internal air pollutants have been reduced via selection of materials with low or no volatile organic compound (VOC) levels and low formaldehyde concentrations, verified via on-site testing.
- Effective heating and cooling to improve thermal comfort, in accordance with EFSG guidelines.

#### 6.2.3 OPPORTUNITIES

In addition to the initiatives outlined above, the following initiatives are currently being explored:

- Specialist lighting design to address the quality of light in the space, and provide highlight and contrast
- Incorporation of indoor plants and/or nature-inspired biophilic design elements.
- Inclusion of rainwater tank to reduce potable water consumption, pending water modelling to quantify benefits
- The activity provides planted area (minimum 5% of site area) in which occupants can directly engage with (such as community garden, edible garden or similar), and necessary infrastructure is provided.

### 6.3 POSITIVE

#### 6.3.1 GENERAL PRINCIPLES

Through a range of performance measures buildings can; improve their energy efficiency which will reduce Greenhouse Gas emissions from grid-based energy; reduce their potable water demand making them more drought tolerant; and, reduce their embodied carbon through sustainable materials selection. General principles include:

- Selection of materials with low embodied carbon
- Energy efficient buildings
- No fossil fuel use
- Offsetting of residual carbon emissions
- Reducing potable water consumption, such as through the use of high efficiency water fixtures, water harvesting systems and reuse, and water-efficient landscape and irrigation design.
- Installation of a solar PV system capable of generating the new energy consumed by the proposed building.



#### 6.3.2 PROPOSED INITIATIVES

The following initiatives are currently included in the preliminary sustainability strategy, in order to enhance the energy efficiency of the building. Refer to the <u>Preliminary Energy Modelling Report</u> for detailed energy modelling reporting.

- Highly energy efficient building, exceeding the minimum requirements of the NCC Section J. Energy to be undertaken to demonstrate a reduction in energy consumption in comparison to a NCC DtS compliant reference building, in line with the following targets:
  - Minimum 10% reduction, excluding any contribution from renewable energy (e.g. rooftop solar PV) in line with EFSG Section DG02.03

Final improvement will be demonstrated via energy modelling in schematic design. Specific energy efficiency provisions will include:

- Exceeding the minimum building envelope R-values of NCC Section J
- Improving on the glazing performance requirements of NCC Section J
- Effective shading devices which reduce solar heat agins to conditioned spaces
- Energy-efficient lighting (typically LED) will be provided throughout, exceeding lighting power densities of the NCC Section J
- High efficiency heating, ventilation and air conditioning systems with mixed-mode 'traffic light' controls system to reduce operational energy.
- All-electric building services
- New roof mounted solar photovoltaic (PV) system. It is noted that the Cammeray Primary School works includes provision for a 20kW solar PV array, noting that this array may be subject to changes throughout future design phases.
- High-efficiency water fixtures.
- Reduction in embodied carbon of materials, achieved through sustainable concrete and steel selection.
- Adoption of minimum targets energy efficiency of appliances (air conditioners, TVs, fridges, computers) to make energy efficiency one of the selection requirements. Major appliances to be at least 0.5 stars above the average rating at the time of purchase.

#### 6.3.3 OPPORTUNITIES

In addition to the initiatives outlined above, the following initiatives are currently being explored:

- Procurement of carbon offsets to offset residual emissions.
- Procurement of renewable energy, such as GreenPower. We understand that the NSW Government is
  responsible for procuring electricity across its entire portfolio. The renewable energy contribution target is
  due to be updated in the near future.
- Inclusion of rainwater tank to reduce potable water consumption, pending water modelling to quantify benefits.
- Lighting controlled by motion and/or daylight sensors to reduce the operation of artificial lighting when it is not required.

#### 6.4 PLACES

## 6.4.1 GENERAL PRINCIPLES

Under this category people are placed at the forefront of the design to ensure the building supports health movement, provides enjoyable places and contributes the local community and cultural heritage of the site. General principles include:

- Active transport (walking and cycling) is encouraged, and private vehicle use is reduced
- Communal spaces which support occupant and community engagement are developed
- The local community's cultural heritage embedded in the design

#### 6.4.2 PROPOSED INITIATIVES

The following initiatives are currently included in the preliminary sustainability strategy to improve sustainable transport options:



- To encourage active and public transport, bicycle parking for staff and students to be provided to the site. This is to be further detailed from the School Travel Plan.
- To reflect the local heritage of the site through design responses

#### 6.4.3 **OPPORTUNITIES**

No additional placemaking opportunities are currently being explored.

#### 6.5 **PEOPLE**

#### 6.5.1 GENERAL PRINCIPLES

This category recognizes the contributions made by the local workforce which develops the building and aims to ensure sustainable practices support workers during the construction process, for areas including mental health and social inclusion. Additionally, the building design is reviewed for universal design principles for improved accessibility. General principles include:

- The builder supports mental health initiatives and promotes diversity
- The building has Indigenous design aspects, or a Reconciliation Action Plan is developed
- Disadvantaged groups are supported for workforce inclusion
- Universal design principles for people with disabilities are embedded in the design.

#### **PROPOSED INITIATIVES** 6.5.2

The following initiatives are currently included in the preliminary sustainability strategy:

- The builder has policies and programs to support construction workers and provides staff support.
- The Head Contractor has procurement practices in place to support disadvantaged groups gain employment opportunities, including:
  - Procurement of all materials and labour will be in accordance with the NSW DoE Aboriginal Procurement Policy and NSW DoE Main Works 21 Preliminaries - Section 4.4 'Aboriginal Participation'
  - A project-specific Aboriginal Participation Plan will be developed to monitor and report on the minimum Aboriginal participation requirements.
  - At least 1.5% of the building's total contract value has been directed to generate employment opportunities for disadvantaged and under-represented groups.
- Inclusive design principles are followed to ensure building users with diverse needs have ease of access and way finding throughout the building.

#### 6.5.3 **OPPORTUNITIES**

In addition to the initiatives outlined above, the following initiatives are currently being explored:

- Incorporation of Indigenous design elements into the design, addressing each of the principles from the Australian Indigenous Design Charter (AIDC), including engagement with Aboriginal and/or Torres Strait Islander communities.
- Diverse wayfinding including visual, physical, olfactory, and auditory solutions.

#### 6.6 NATURE

#### GENERAL PRINCIPLES 6.6.1

Impacts to nature are minimised and the biodiversity of the site is fostered through selection of native plant species, this also supports the wellbeing of building and local groups who can maintain a connection with nature through urban green spaces. Waterways are protected through a volume controlled stormwater management strategy. General principles include:

- Protect and enhance ecological and biodiversity value
- Minimise negative impacts, such as lighting pollution and stormwater pollution.



#### 6.6.2 PROPOSED INITIATIVES

The following initiatives are currently included in the preliminary sustainability strategy:

- Specified stormwater pollution reduction targets are met.
- Appropriate lighting design to reduce light pollution of external lights, including compliance with AS4282, AS/NZS 1158
- All heat-rejection systems to be waterless to eliminate risk of Legionella (no cooling towers)

#### 6.6.3 OPPORTUNITIES

In addition to the initiatives outlined above, the following initiatives are currently being explored:

- Increased proportion of the site dedicated to external landscaping. Inclusion of critically endangered and/or endangered plant species native to the bioregion.
- Average annual stormwater discharge (ML/yr.) is reduced by 40% across the site.
- Encouragement of species connectivity through the site, and to adjacent sites
- Restoration or protection of biodiversity area beyond the project boundary.



# 7 CLIMATE CHANGE RESILIENCE

The projected impacts of climate change on the proposed activity has been assessed, based on predicted climate change models. A Climate Adaptation Workshop was held with all project stakeholders on 08 Nov 2024. The workshop goals were to:

- Identify and describe risks posed by climate change to the activity and rate the consequences and likelihood of each
- Identify and evaluate the potential adaptation actions and/or design strategies to mitigate those risks which are deemed unacceptable.

To facilitate this process, pre-workshop notes were provided to all stakeholders attending the workshop which consisted of the following parts:

- Climate change projections
- Consequence scale for the risk assessment
- Likelihood scale for the risk assessment

A climate change risk assessment undertaken as per AS 5334-2013 and EFSG requirements. Expected impacts from climate change will be identified with reference made to both CSIRO projects for the East Coast (South) sub-cluster and NSW Government's NSW and ACT Regional Climate Modelling (NARCLiM) projections. The results showed the following:

- Extreme temperatures are projected to increase with very high confidence, and substantial increases in temperatures reached on hot days, as well as the frequency of hot days.
- Average temperatures will continue to increase in all seasons (very high confidence)
- Generally, less rainfall is expected in winter (medium confidence), but the intensity of extreme rainfall events is expected to increase (high confidence)
- Time spent in drought is expected to increase (low confidence) over the course of the century.

The design's responsivity to the above impacts will be assessed in accordance with EFSG requirements, at least two of the risks identified will be addressed by specific design responses, suggested risks to be addressed are detailed within the Climate Adaptation Report.



#### NET ZERO AND RESOURCE EFFICIENCY 8

The proposed activity aims to minimise greenhouse gas emissions, to reflect the NSW government's goal of net zero emission by 2050, and consumption of energy, water and material resources. The key initiatives which have been selected to contribute to these goals are summarised below.

#### 8.1 **ENERGY CONSUMPTION AND NET ZERO 2050**

The building incorporates the following initiatives into its design:

- Greater than 10% reduction in energy efficiency over minimum NCC compliance
- Passive design including consideration of orientation, thermal mass, shading, and fabric and glazing insulation performance, and colour
- Energy efficient lighting design and control
- Energy efficient heating, ventilation, and air conditioning design and control
- Energy efficient appliances and equipment
- Energy monitoring and whole of building demand management and control
- Renewable energy sources, including solar photovoltaic panels
- 100% electric design to minimise gas use and greenhouse gas emissions
- Commissioning and tuning strategies

#### 8.2 WATER CONSUMPTION

The building incorporates the following initiatives into its design:

- Water efficient fixtures, equipment, and appliances
- Water use monitoring
- Water sensitive urban design
- Stormwater management, and groundwater and drinking water catchment protection
- Commissioning and tuning strategies

#### 8.3 OTHER MATERIALS CONSUMPTION

The building incorporates the following initiatives into its design:

Reduction in upfront carbon through sustainable material selection, including low embodied carbon materials and high recycled content materials. Including major construction materials – concrete, steel, timber and aluminium.



# 9 CONCLUSION

This report identifies the sustainability measures being pursued or investigated by the project team, demonstrating how the relevant sustainability requirements have been addressed.

The proposed design for the activity incorporates sustainability measures that have far reaching benefits from the perspective of energy, water and waste reduction; as well as providing good indoor environment quality, thermal comfort and visual comfort. By this means, the proposed activity will have a positive impact on the health and wellbeing of the students and staff occupying the building.



#### 10 **APPENDICES**

#### 10.1 SINSW ESD SCHEDULE

Refer over.

PROJECT: REVISION	Cammaray Public School Upgradi A	3															INIDEDENDEND	F CHICTAINA OH ITV MC	PHEICATION		
Sustainability Strategy Priority	Distribution  Suntainability initiatives / regularements  Where application, this is an estructionly from the relevant ETSG. For full requirements refer to https://efsg.det.rew.edu.au/	Project stage	Basis for Initiative	Crossover with Green Star	Recommended evidence to demonstrate compliance	Has this been implemented in the project?	Contractor's ESD consultant comments	Actual evidence This evidence needs to show that the requirement from column C has been met	Responsibility: dentify party responsible to provide evidence)	Planning check Is the evidence proposed accepted?	Design Check Is the project compliant?	As Built Check Is the project compliant? Y or N		Independent ESD Review Comments	D&C Contractors Response	Independent ESD Review Comments	D&C Contractors Response (insert	Independent ESD Review Comments	Independent ESD Compliance	Potential impact of departure on Green Star Points:	vidence Index (optional)
Act on climate change	Approximant for MEZ.  If one finding must be designed and built to the energy communitation is producted to be at least 20% lower than if bad if the completes with Missiand Communitation Code responsements.  In this half of a product of the product comply with the communitation for the production of	Ph 2-5: Architectural Design	DG02.03 GREP	DAS c15E.0 GHG Emissions Reduction - Conditional Requirement	1. Dougs modeling suport / Produktive energy modeling and thermal condu- sancement. Report medio in these about 25% improvement of haulding over minimum MCC registered; and 2.6% improvement of haulding over minimum MCC registered; and 2.6% belt in deviction of the hailding, and device of the conduction of the conduction of the hailding, and device of the conduction of the conduction of the hailding, and the conduction of the conduction of the conduction of the conduction of the conduction of the conduction of the conduction of the conduction of the conduction of the conduction of the conduction of the conduction of the conduction of t	Y as N as NJ	Energy modeling has confirmed that the school significantly exceeds the requirement to reduce energy consumption by at least 20% vs. a reference		evidence)	YorN	YorN	YorN	SINSW Soutainability comment	(insert date)	(insert date)	(insert date)	este)	(essert date)	TBC	Y, N, N/A	1
Act on climate change	Assists design  The result of a color seculograph bearing shall be minimally semploying parties / businessed design principles based in DGSS,  BLD and EG 273 Line will in the GA RDST fromtomerant Sengin's Schalle Galdeline.  The resulting and suffice to printing passive cooling in summer and healing in winter  - Thereof many  - Ther	Ph 2-5: Architectural Design	DG55 DG05.02 DG27.12 GA NSW Environmental Design in Schools		Thermal modeling report     As both invierce demonstrating measures implemented to reduce need to enhance collegel resident     To reduce of the reduce of the reduce of the reduce of the reduce collegel resident     To review design report by Architect listing all passive design initiatives reportmented		Large reductions in energy consumption, as a result of passive design principles, have been incorporated in the design.	Refer to Energy Modelling Assessment  Refer to Energy Modelling Assessment	Suntainability										твс		2
Act on climate change	excep afficient fairling single, and modelling still plating must be sell or the lighting systems and the selection of fittings in to be understand based on a Whitel of the approach, such as the design of the lighting systems and the selection of fittings in to be understand based one at Whitel of the approach, such as discontinuous parts in memorar discontinuous parts density provisions must be adhered to, solving with all other selections of parts. Selection parts in memorar discontinuous parts density provisions must be adhered to, solving with all their discontinuous parts. Selection parts and the selection of parts of the selection of the selection of the selection of parts. Selection parts and the selection of the s	Ph 2-5: Service Design	DG2.3.1 DG63.01 PG63.04 DC63.05 DG63.03.02	DAB c15 GHG Emissions Reduction	Lighting drawings     Lighting specifications / schedules     Lighting specifications / schedules     Lighting modelling report showing compilant power densities	r	Assumed to be included in patternhook documentation for standard hubs		Electrical										твс		3
Act on climate change	- The cost of lighting controls will said in subdistrially improving energy efficiency on sites, and should be considered for all righting systems, makes belief as the first highest produced in the control of the con	Ph 2-5: Service Design mum other or	DG63.05 DG63.07 DG65.03.01	DAS c15 GHG Emissions Reduction DAS c4 Building Information			Assumed to be included in patternbook documentation for standard holds.		tlectrical										твс		4
Act on climate change	Long or months approved in Appeals  Indicated applyment and that alles 40.5 and show the market average size rating or comply with high efficiency standards uperfield on the GEEP  MUXC system must have iterated or sensor freedback functionality for energy conservation  Typions and lot designed on minimal energy consumption. System design: / equipment selection is to be based on whole of fill  Only the contract of the contract		es DG2.3.3 DG55	DAB c15 GHG Emissions Reduction	2. Enforces or applicances and equipment with their star starger or personner standards, signed by head contractor or architect. All appliances and equipment required in the CREP must be lated, and are contribute, equipment equipment and contractors, transformers, etc.  2. A built mechanical drawings / statement from head contractor;  2. Whole of life cost analysis demonstrating systems were selected based on WIV septembers.	t,	HVAC controls are based on EFSG requirements, which comply with the noted iter		Mechanical										ТВС		5
Act on climate change	Next loss/gain. The delays must take alogs to control heat loss from the building during cooler winter months and heat gain during the warms records. Befor to MVAC Design considerations in COSA DI.	Ph 2-5: Service Ir Design	DGD4.01	DAS c15 GHG Emissions Reduction	Thermal modelling report     As but evidence demonstrating that model is an accurate representation of the building     Specifications/ calculations supporting modelling inputs		The building utilises shading design and improved thermal fabric performance to reduce heat gains and losses, and reduce overall energy consumption.	Refer to Energy Modelling Assessment	Sustainability										ТВС		6
Act on climate change	Notice meniments control —  2-bith the thermal control and indice are quality shall be controlled automatically within specified parameters.  -Controls, shall be inergia and instaline to use.  -A "shall, by by "git yearner (securities to 10 55.01 Thomas Control and Valour A Quality Policy) should be used to inform the smaller of the shall be used to inform the smaller of the shall be used to inform the smaller of the shall be used to inform the smaller of the smaller of the shall be used to inform the smaller of the shall be used to inform the smaller of the smaller of the shall be used to inform the smaller of the shall be used to inform the smaller of the shall be used to inform the smaller of the shall be used to inform the shall be used to info	Ph 2-5: Service Design users of	DG55 DG 55.01 es Thermal Corrfort and Indoor Air Quality Policy	DAB c15 GHG Emissions Reduction	As bulk evidence demonstrating controls have been installed as required.     Commissioning report / statement by head contractor confirming controls have been set as required.	,	Traffic light system is included to all learning spaces as per the EFSG		Mechanical										ТВС		7
Act on climate change	Renovable energy  A grid corrected soler PV system must be installed in line with DGSS requirements.  Where feasible, PV systems shall be installed so offset as much of the electricity consumed by the school as is practicable.	Ph 2-5: Service Design	es DG2.3.4 DG55	DAB c15 GHG Emissions Reduction; DAB c16 Peak Electricity Demand	As installed drawings of PV system     Thergy modeling report showing renewable energy generation		PV system to be installed and sized to offset building consumption	Preliminary Calculations and proposed system size included in concept documentation (Concept Repo and Drawings)	rt Electrical										ТВС		8
Act on climate change	Buttery Triengy Storage System  A buttery caregy storage system shall only be designed in consultation with SINOW Zustainability nutrienability exputing (Bot raw adduse)	Ph 2-5: Service Design	es DG66.E.3	Demand DAB c15 GHG Emissions Reduction; DAB c16 Peak Electricity Demand	An installed drawings of battery storage system	-		No battery system proposes	Florida										твс		9
Act on climate change	Readers Admits being must be preferred over gas heating. Where gas heating is considered, it must be approved by \$10000 Sustainab Reading equipment must be designed from a whole of life properties end.  -Support automated design principles including reading reaming around principles and carbon entrainab are accessible and readers are very to material minimate impact on solving as when materianace is being performed are accessible and readers. The read of the principles are considered and the solven performed are accessible and readers. The read of the principles are the readers and the principles are considered as the properties and the principles are considered as the principles are considered.	ph 2-5: Service Design	es DG36	DAB c15 GHG Emissions Reduction	If reverse cycle air conditioning is installed, confirmation that gas heaters are not installed, OR     Z. Evidence that the gas heaters installed are energy efficient.		No gas heating is included in the mechanical design.	To be provided in future venions of this docume	Mechanical										твс		10
Act on climate change	VOICE MARKET AND THE CONTROL OF T	Ph 2-5: Service Design	DG53.09	DAB c15 GHG Emissions Reduction	WOL cost assessment for hot water systems     Hydraulic drawings/schematics showing installed DHW systems	,			Hydraules										твс		11
Build resilience	Commencially bloody sprins used in a size frainty (if ended resolute) and that pumps are spellered energy societies for the size of the s	Ph 1: Site Selection and Masterplan	DG03.02	DAB c3 Adaptation and Resilience	Distabled reports or surveys developed     Tourisonmental finit report     Tourisonment finit report     Tourisonment finit report     Tourisonment finit report     and the search of the search	,	Orgoing consultation with bushive consultant. Climate Adaptation workshop completed	Contamination and Geotych record	RPInfrastructum										твс		12
Build restlence	seeing of all and an artist and artist artist and artist artist and artist	tafor ildings Ph 1: Site Selection and Masterplan		DAB c3 Adaptation and Resilience	E. Bush for an assument report 2. Authorized by scholated for committee custioning building to stage or implemented in the with ECC and ASSYSS.  4. Secretary of the spirit of the spiri	,	Bushfire letter has been received		RPHefe astructum										TBC		13
Suid resilience	Cleans the gas exhaption in the continue of the continue of an of the continue of adoption in recognition to the continue of any continue of adoption in continue of a con	dent Id be taken.	DG02.08		2. Climas not assessment, and 2. Climas sold present and 3. Climas sold present and 4. Climagency management plan	r	Climate change risk workshop and report have been completed by NDY with inputs from all design disciplines. All risks and their and their complete the complete of the the report.	Refer to Climate Change Adaptation Repo	Soutainability										твс		14
Build resilience	Weather protection Circulation areas provided between administrative, staff and all student spaces (except Agriculture), should be protected from rain and unfavourable winds.	Ph 2-5: sus/Architectural Design	DG08.05	Not covered in Green Star	As built drawings showing circulation areas are protected as required	,	All circulation areas have a roof to protect against weather	Refer to Schematic Design drawing	Architect										ТВС		15

	Order Mest harre mingerion - Neor Color	_							r					 	 
Build resilience	The roof colors will also have an impact on the thermal performance of the roof, therefore the product's Solar Reflectance Indeed should be considered to mitigate the heat shade effect.  If you product varieties from most the following three year Solar Reflectance Indee (DRI) requirements.  For roof grids 1-15, minimum SRI of Marie  For roof grids 1-15, minimum SRI of Marie  SRI or SR	Ph 3-4: Produc and Material Selection	d DG20 Fabric	DAB c25 Heat Island Effect	1. Site Was highlighting all relevant areas as referenced within the area schedule. 2. Area Schedulch bitting the areas of each of the referent the demonst and where relevant, the STI values and referencing glord desarging for the site; and 3. Supplier Courserstation material data sheet for compilant roofing and hardingen reservation.		Roof Colour will be							TBC	16
	For roof pitch < 15, minimum SN of 82					Y	SURFMIST SRI 82		Architect						
Consume responsibly	Packing Curv Scales  Thomas a Subdieg Deur Scales to enable the claims to understand the building systems and operate systems to maximize efficis.  This most: Checky and concolled yelection the operation of building and its services.  Adding the user of the most suitable registements for consumables.	Ph 7-9: lent Construction, Commissioning Post Occupance and Operation	E 77	DAS of Building Information	1. Building user's guide		D&C contractor responsibiliti Polistant reductions are							твс	17
Consume responsibly	Stormwater management Must aim to minimise the transportation of toxicants to waterways and other offsite environments, and maintain the existing hydrological regress. Due difference for flooding must be done early to inform building and landscaping design Drinking water catchment protection	Ph 1: Site Selection and Masterplan	DG2.4.3	DAB c26 Stormwater	Stormwater modelling report showing stormwater pollution and flows.     Civil / Hydraulic drawings showing management measures.     Water sensitive urban design report (if WSUD was use4)	Y	targeted through the use of filtration devices. Due diligence completed for		CM					твс	18
Consume responsibly	For developments within driving water cutchment areas, a water cycle management study is to be included with the Covolopment application for Ecolorin Study development incidency.  - Agriculture facilities.  - Agriculture facilities.  - Coverage systems or works (including package swerzegs breatment plants).  - Coverage systems or works including package swerzegs breatment plants).  - Coverage systems or works including package swerzegs breatment plants).	Ph 1: Site Selection and Masterplan		GSC c24 Integrated Water Cycle	Water cycle management study     Noterce that recommendations in the study have been followed / implemented	NA.	Project does not fall within drinking water catchment		B24efrantru-tura					ТВС	19
Consume responsibly	Where a new school is to be developed a Heardous materials study is to be conducted, including:  - Asbestos Contineing Materials (ACM)  - Synthetic Mineral Ribers (SMF)  - Synthetic Mineral Ribers (SMF)	Ph 1: Site Selection and beiddesterplan	DG48.01	DAS 24.2 Contamination and Hazardous Materials	T. Itaardou naterials skely / sila inspection report / survey     T. Management / survey     T. Management / survey     Manadation transfers insplanted     A. Manadation transfers insplanted     A. Environmental auditor certificates / clearance certificates			_						ТВС	20
Consume responsibly	Contractions and separated in solubed in all ones school size. The promotion of upon much tribuils asserts separation including the contraction and purposers the segaration including the contraction of segaration segaration in contractions and promotion segaration in contractions. The promotion of the contraction of	Ph 2: Concept Design - Space planning planning		DAS cs Operational Waste	Operational wader management plan Coperational wader reports blooming discretion reten	y NA	Existing school, Bern not referent		MATTER STATE OF THE STATE OF TH					ТВС	21
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 g Design - Space	DG21.1.16	Not covered in Green Star	As built drawings or statement by relevant professional		required at edge wall thus no room for shear walls. Shear							TBC	22
Consume responsibly	porference to software in larged. Design all interned with an one-load bearing to weakle factor floodably.  Medical is wrinken  Hedwards wrinken  Legisland to be some handel:  - Appropriate industried design principals including reducing water consumption and waste production.  - Appropriate principal design principals including reducing water consumption and waste production.  - Appropriate principal including reducing water encounter incommental impact  are accounted and enforcements - waste memorial environmental impact  are accounted and enforcements - water incommental impact  are consumed and an experimental incommental impact  are consumed and an experimental incommental incommental incommental incommental  are consumed an experimental incommental incommental incommental incommental  are consumed an experimental incommental inc	planning Ph 2-5: Service Design			Hydraulic report showing sustainability initiatives implemented to reduce potable suster consumption     As built drawings showing trade waste arrestors	N	walls has been fit within		Structure					ТВС	23
Consume responsibly			DG53.04	DAB c6.0 Metering	I. As built hydraulic drawings				Hydraulics					твс	24
Consume responsibly	teclude roof water harvesting and task storage in new schools and where practical in existing schools to reduce the demand on driving water supplies.  This water can connect to drip irrigation systems for adjacent landscape/gardens with the major preference being for gravity for supply to minimize organizing maintenance.	Ph 2-5: Service Design	DG53.14 DG2.4.2 DG53.01	DAS c189.2 Rainwater Reuse	As built hydraulic drawings showing tank connection to end uses and oppacity		Not required on existing							ТВС	25
Consume responsibly	The assessment tacks must be connected to tolish for tolist fluidize. If this is not feasible, socrool must be availed by 3N.  Fire system water reuse  Where schools are required to initial a spirioler system for fire safety, it is recommended to initial a closed loop system must be initialled to capture and reuse fire systems setting and maintenance water, or by using an alternative non-potable water source.	Ph 2-5: Service Design	DG2.4.2	DAS c188.5 Fine System Test Water	Fire engineering report	NA.	schools							TBC	26
Consume responsibly	installed to apprie and reuse fire systems sesting and maintenance water, or by using an alternative non-postable water source.  Ground water  Where ground water is available for use for irrigation purposes in drought affected locations, enquiries must be undertaken with Oepartment of Planning. Industry and Environment to determine the suitability of a ground water system.			DAS c18 Potable Water	Relevant due diligence report / investigation		Ground water not available		Fine					твс	27
Consume responsibly	tender for odd some state and do of atomic annut and to be included to best analysis for a cities to be an extended	Ph 2-5: Service Design	DG52		As built drawings showing trade waste arrestors or     Letter by Hydraulic Engineer confirming arrestor have been installed as	NA.	for irrigation No science labs, kitchens, art rooms, or canteens within							твс	28
Consume responsibly	Water Falling reflection (A) of products must be routed to A5 600 to the following environme WEXT-ratings:  - Taymon to 1.0 to 6th as they equipmented to 1.0 to 6th as they experimented to 1.0 to 6th Closel Fall to 1.0 to 6th as they experimented to 1.0 to 6th Closel Fall to 1.0 to 6th they extigate equipmented to 1.0 to 6th as the first entire equipmented to 1.0 to 6th as the 1.0 to 6th as 1.0 to 6th	Ph 3-4: Produc and Material Selection			1. Schedules of muterial, Sinters, littings and equipment with. WELS/Moterables rating, demonstrating compliance and identifying those with flow restrictors and timed flow.	NA.	Will comply as per EFSG requirements. Detailed selections have not yet							ТВС	29
Consume responsibly	way can, of one wife-wing applicant machine of least 33 start about the arrange VICEs are centrely product type, recording and of least and articles and articles, which must be purchased at the arrange VICES of certain, which was to an admittal, our the administration of the articles and articles are also also are considered and articles are considered as a start and articles are considered as a start and articles are considered as a start and articles are named and other material which the articles and materials has been assumed and other material which the articles and materials has been assumed and other material which the articles are considered as a start and articles	Ph 3-4: Produc and Material Selection	d DG01.03	DAS c19A - Life cycle assessment	Ule cycle assessment report	Y	Upfront Carbon assessment has been performed by NDV which identifies the required material substitutions to achieve compliance with Green Sax Buildings Upfront Carbon requirements, and identifies the environmental impacts of products and materials.	Befor to Lightness Curbon Assessmen						твс	30
Consume responsibly	Consider of the saming (IRCO)  The control of the c		DG01 ct All design guide for selection of materials and building system	SSC c20 - Return on investment	tale egale enoting seport for relevant updates									твс	31
Consume responsibly	Sustainable reservision  Construction extension found to selected board on the following:  Construction extension found to selected to found to the following:  Any of the found to the fou	Ph 3-4: Produc and Material mary election	pg02.05	DAB c21 Sustainable Products	Environmental Product Declarations of products / materials used; Product confidences (Size GECA, PSC, et al)     England Confidences (Size GECA)     England Confidences confirming recycled contents in products     End of quantities	¥.	Will be considered in Specification. Current specification based on simila 5 star project. Futher development throughout process.		Architect					ТВС	32

	Joustainable timber.  No rainforest timbers, or timbers from high conservation forests, are to be used unless plantation grown. Use only recycled timber, or timber during the product of the segment and gloud timber composite products, or timber from plantations or from suntainably managed regrowth forests that TSC, ATS or PETC confided.	alth 3-4: Produ	uct DG2.5.1	DAB c20.2 Responsible	Evidence of chain of custody     Bill of quantities										22
Consume responsibly	engineered and glued timber composite products, or timber from plantations or from sustainably managed regrowth forests that ESC, AFS or PEFC certified	and Material Selection	DG21.05.01	Responsible Building Materials -	2. Bill of quantities								TBC	c	33
				Timber		Y		Architect							
Consume responsibly	Built for dississmbly Consider the use of building materials which are able to be disassembled for re-use, in conjunction with considerations for the ad- and removal of accommodation over time.	Selection	DG02.07										TBC	c	34
	Concets  - Use materials complying with AS based on the Yihole of Life approach to materials selection.  - On or our levelous or district in concrete miss.  - Try with a manufacturing bi-product that can be used as a coment replacement but should limited to a maximum of 20% by well of content content.	Ph 3-4: Produ	uct			an .	Upfront Carbon assessment has been completed								
Consume responsibly	- Do not use breccia or delerite in concrete mixes.  The sob is a manufacturing historidant that can be used as a company replacement but should limited to a maximum of 20% by well	and Material	DG21.02	DAB c198.1	Structural specifications and drawings     Structural Engineer's report showing % cement replacement		has been completed identifying project materials selections as well as impact						TBC	c	35
	of cement content.					Y	of appropriate material NDY Embodied Carbon Assessment	Sustainability							
	Construction waste	Ph 7-9: Construction,	ing DG02.07 ncy on	DAB c22 Construction or	d Construction waste reports showing percentage (minimum 90%) of waste re-								твс		26
Consume responsibly	Targets must be established to increase diversion of waste sent to landfill, with a minimum diversion rate target of 90%. Consider opportunities for re-use and recycling of materials in the construction phase	Post Occupan	ng DG02.07 ncy	Construction as Demolition Waste	d Construction waste reports showing percentage (minimum 90%) of waste re- used and recycled (diverted from landfill)		To be confirmed in future						180		36
	Maintainability	and Operatio	on .	wante			phases						_		
	Maintainable All yeliman will experiment that is installed within a school is to be provided with suitable access to ensure that this equipment in which and efficiently maintainable. In order to make the maintainable, all of control or an experiment of all buildings, deswings are to be provided showing the completed (A build buildings, closurings are to be provided showing the completed (A build buildings including all regispenses and equipment access arrangements.														
	In order to ensure that maintenance is available, on the completion of all buildings, drawings are to be provided showing the completed (As Built) building including all equipment and equipment access arrangements.			DAB c2.1 Services and											
		es.		DAB c2.1 Services and Maintainability Review											
	Any mechanical ventilation system within the building must be designed to provide adequate access for maintenance, to both sid of all moisture and debris-catching components, within the aderbasion system. Moisture-producing and debris-catching components include items such as cooling costs, heating costs, fan coll units, humidifiers and fifters in the air handling system.	Sh 3 E Sanda	DC16 10		As built drawings including all equipment access arrangements for										
Consume responsibly	The project team should demonstrate that there is a project level review process in place to ensure that the building has been	Design	DG 01.04	DAB c9.1.2 Ventilation System Attributes	maintenance								TBC	С	37
	designed as per the EFSG, that any issues identified have been closed out and that the outcomes can be communicated to the relevant facilities/ operations teams.			Attributes											
	Maintenance required and cost of this maintenance are to be considered in assessment of the project's life cycle cost.			DAS c4 Suilding											
	Operation and Maintenance manuals (DRM Manuals) are to be provided, written in clear, concise English covering the various			intermation			TAM								
	Operation and Maintenance manuals (OAM Manuals) are to be provided, written in clear, conciue English covering the various houldfow attenues, assembles, notinement service is unblations and notemes inconversated into the World  Its investigations for place making / community connections  The following detailed reports; surveyery informations hould be considered in developing the business case:					Y	future project phase	RPInfrastructum							
	The following detailed reports/ surveys/ information should be considered in developing the business case:			GSC c12 Culture											
	- Local environment/ character - Climate and microclimate	Ph 1: Site		Heritage and Identity	<ol> <li>Relevant reports/surveys developed (these ideally include recommendations for farther development stages)</li> <li>Voldence demonstrating recommendations / best practice solutions have been implemented/addressed.</li> </ol>										
Foster connections	- Henitage significance / Impact - Appraisal of physical and visual factors affecting site development	Ph 1: Site Selection and Masterplan	d DG03.02	DAS 24.2	Evidence demonstrating recommendations / best practice solutions have		No heritage considerations were identified. Transport and geotechnical susesyments will be						TBC	c	38
	- Available transport/ road infrastructure servicing the site - Geo-technical and Soil reports will be required for each site to investigate the suitability of the topsoil and anticipated sub-grade			DAS 24.2 Contamination and Hazardous Materials	been imprementedy appressed.		and geotechnical assessments will be								
	materials for horticultural purposes.  - Testing for toxic residues must be undertaken in all areas identified as being a possible risk - i.e. filled or dumped gros.			Materials		Y	completed during future phases. Heritage Reports	RPInfrastructun							
					Limitary of the continued assessment of local fibra and finance survey.  Limitary could provide the continue on the fibra survey.  Limitary could assessment found that the continue on the fibra survey.  Limitary could be continued to the continued of the survey of the continued										
					ecological Assistment support union occurrents the following:     ecological values (current, future, and past) identified for the site and their										
	Ecological conservation				protection measures - ecological impacts from light and noise pollution and water quality and their										
	Schools sites must conserve for future generations, the biological diversity of genetic materials, species and ecosystems on that si and consider the surrounding natural environment.	te			mitigation requirements - existing vegetated areas and biodiversity values being retained how										
				DAB c23	biodiversity has been considered within the project's material supply chain  - list of management strategies to protect the integrity of ecological values.										
Foster connections		Ph 1: Site Selection and	d DG02.06	GSC c29	throughout project planning, construction, and occupancy community and local stakeholder expectations including Aboriginal or Torres Strait Islander								ТВС	с	39
	The design of the facilities must provide unique and valuable environmental conservation learning opportunities and effective	Masterplan		(incl Biodiversit	groups and environmental groups  Y - Adequate due diligence must be conducted where an area of biodiversity on										33
	renormalism collection to the solder community.  Schools must connect with nature and incorporate biosphilic design principles. Open space must allow for exploration, and biodive and earth existing to the relation to enhance the site is custoom teaming potential.	esity		Enhancement)	high ecological value is identified on the site, where at least 50% of this area must be retained.										
	and earth education to enhance the site's outdoor learning potential.				3. Biodiversity management plan describing measures for the conservation										
					enhancement, tree protection, etc.										
					enhance endangered species / ecological communities identified; to preserve		Flora and Faura assessment report in progress. Report to								
	Destruitor Instance	Sh 1. File	_		or re-establish native hora; etc.	Y	be provided in future phases Biodiversity report. No risks or futher actic	RPInfrastructum							
Foster connections	Productive landscape Consider including opportunities for development of community garden within the site and relationships with community groups	Selection and	d DG2.06	GSC c14.2 Local	Site plan demonstrating location and size of community garden								TBC	с	40
	Bicycle storage Provide 1 space for every 20 students to AS2890.3 standard	Ph 2: Concept	t ce 5G552 4.36	DAS c17 Sustainable Transport		N/A	Needs to be reviewed as to	Landscape							
Foster connections	active sorrage	Design - Spac	se \$6552.4.36	Sustainable			what is existing. Residual to						TRC	C	41
	Provide 1 space for every 20 students to ASZBIALS standard	planning		Transport		v v	he added to organizations	Architect					100		
	Provide a space for every 20 sculents to ASZERILE standard  Community use of facilities	planning	DG16.08 Department of	Transport	Confirmation by the Architect that direct access has been provided to open	Υ	be added to project scope.	Architect							
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Unlock human potential	Green cleaning  Dongen should support the implementation of a Green Cleaning policy for the school, this may include: Agreements cleaning measure to be provided to safely above chemicals and epigement.  And #FERM fortion to source mappingment.	Ph 7-9: Construction, Commissioning Post Occupance and Operation	g WoG Facilities N	GSP c6 Green Cleaning	WEB Clean School User Guide     Green Cleaning specifications								ТВС		49
Unlock human potential	Attaged morphism angle uniforce, that are unable closes.  The XRV insultary School Carbones Strategy applies to all XRVI Government schools (primary, secondary and central schools) with scales closes, and the Art words chool of play a relief in encouraging healthy distany options in an effort to help reduce childhood obenity strongly food provided in the school content.  As which School carbones, and which school interfered to encourage morbs or expensation, stream, dislate and committee of health's very contract or the school carbones.	Ph 2: Concept Design - Space planning day'		DAS c300 Integrating Healthy Environments	Research report behind Meabhy Caeteen Policy     tokence that policy intitative has been incorporated into the school under assessment.		To be confirmed during future design phases  Cardeen not within scope of						ТВС		50
Unfock human potential	Depth of the control	30pm Ph 2-5: Architectural cer@asign	DG12 DG07.01	DAS c12.0 Glane Reduction	Coulyight glass modelling report / sun diagrams showing direct surlight has been excluded as required.     Towering supporting injust of model, showing facation of blinds and any other gives control direct.	y y	works  provided to all month facing windows. South facing windows. South facing windows. South facing the threat worked to the w	Architect					твс		51
Unfock human potential	Doign of internal spaces must address the following Acoustic outcomes:  - Internal Nobe Levels. An internal nobe level assessment must be carried out for all new buildings to ensure comfortable acous conditions for the spaces occupied. The internal nobe levels within the space must meet the limits stipulated in Table 110.5 of	Ph 2-5: Architectural stign Design	DG 11.06 DG 11.03 DG 11.02	DAB c10 Acoustic comfort	Report by qualified acoustics consultant demonstrating noise measurements are compilant.     Cetaled Crawings indicating sound insulation details and other relevant acoustic design features.	s.		Acoustic					TBC		52
Unlock human potential	cours artisente of the bear should be some course of the second of the	of a codth 2-5: Architectural Design	DG11.04	Not covered in Green Star	Papert by qualified accountes consultant	v		Acceptic					твс		53
Unlock human potential	Fly free indoors	vateRh 2-5: Architectural rm:Design	DG31.01	Not covered in Green Star	As-built drawings showing fly screening has been provided as required		There are no external windows to the Closh  Stichments, Mence no  flaporeers allowed for.						ТВС		54
Unfock human potential	Assembling where definition must ment current DTS provides of the NCC and the associated dandered. Generally ACLES is the minimum deep strated for access and multiple. Namewar, it is DGC 'public that any orderected contractions could be a Contraction of the	Ph 2-5: Architectural dispession d on	DG19.01 DG65.14	DAS 30D Universal design	Arcensibility plan     An built drawings or other exidence demonstrating that minimum and enhanced accessibility requirements have been provided for walkways, contribute, ramps, etc.     A finding raphs or other exidence of signage installed	Y	Needs to comply with this anyway	Architect					твс		55
Unfock human potential	saling large your arrows that it has IRIX organize coupled guest hour a dar hou of light in light goaling standard and some three properties of the coupled guest hours and some the coupled guest hours a dark hour of light in light goaling standard and some and the coupled guest hours and coupled guest g	Ph 2-5: Architectural Design	DG2.10	DAS c12.2 Views	1. Views Califorations and Math-up this must be done in accordance with the GELAStrylight and Views Rand Calculations Coulder State of Calculation Coulder State	v	Calculation of views compliance has been sometimes of the been completed and shows the completed and shows the completed and shows the complete and shows the complete and the shows the complete and the shows the complete and the shows the shouse the shows the shows the shows the shows the shows the shows	Sontainahilita					твс		56
Unfock human potential	The hander hand of the rest. The hander does not come the desiration, required in the official encountering and comments of the comments of the comments and register and rest of the comments and reduce are growing and comments and reduce are growing and company to the comments and reduce and pulping the comments and reduced are growing and the comments and the comments and the comments and the comments are comments and the comm	ph 2-5: Architectural Design	DG2.3.1 DG12	DAB c12 Visual Comfort	Doylight modelling report demonstrating how natural daylight has been mexicated and all labelable spaces, and it all labelable spaces, and it is a labelable spaces, and it is a labelable space, and it is a labelable of the state of the space of the states, single the model accurately represents the hadding (a) as worker was and treatment space of the states of the space of the states of		National depthylate services mental that required 4000, years broadwald, Confirmed	ActionAction					твс		57
Uniceà human potential	The meating of the property of	uniSh 2-5: Service	0037.01 0005.04 0005.05 0005.05 0037.16 0005.01 00057.18 0005.02 0037 0005.10 0037 0006.16 Confort and Indoor Air Quality — Airformance Brief	DAB c15 GHG Emission Reduction	Surling system disting including NCE analysis.     A converge plane     Contraction drawing	*	And the company with the content of agreement, with the content of agreement, with the content organization, color of agreement, with the content organization, with the content organization, with the content organization of the content of agreement, with the content of agreement, with the content of agreement, with the content of agreement, color of agreement of agre	Toolst additing					твс		58
Unlock human potential	Security of the security of th	Ph 2-5: Service Design 1:2006	s DG63.03	DAB c11 Lighting Comfort DAB c11.1 General Bluminance and Glare Reduction	Lighting drawings     Another control of drawings     Lighting modeling report showing complient welformity and USBs.     Lighting modeling report showing compliant welformity and USBs.	v	Assumed to be included in performance to be included in the performance to the performance to be included in the performance to be includ	Mechanical					твс		59
Unfock human potential	Therein admits a conting with solved infinites a directed by the Operatment for Centing pulse). It Solved with the light a manager mean meliumit already impropriates of 31 cc. and above, Centering, are conditioning to be provided to at shorted buildings. Solved to the shorted buildings. 25 continues to the continues are continued to the continues and the continues are continued to the continues of the continues are continued to the continues of the continues	Ph 2-5: Service Design		DAG c14 Thermal	1. Morchanical drawings showing MYAC systems installed, or 2. Confirmation from sub-contracture that services have been installed and commissioned as required, and 2. Morchitegreport the sub-contracture of		Air conditioning is provided to all noninisted spaces within the projects stope, and will meet the thermal confort regularments,						TBC		60
Unlock human potential	mouse with PUNIS of UP 11 to 1950 at any purpose those Months and and the Company of the Compan	Ph 2-5: Service Design rorted	DG51.09 DG53.11	DAS c28 Microbial Control	Letter by hydrauk: engineer confirming hot water is stored above 65 deg and that valves comply with code of practice.		subject to future modelling	wechanical					твс		61
Unlock human potential	The date of the distinctions of the date o	ric 202, Ph 2-5: Service lightDegign		DAB c 27.0 Light Polistion to Neighbouring Sodies	As built drawings indicating the location of all external luminaires     Letter by lighting designer describing glave provention measures	Y	External lighting product solutions on an external lighting product solutions on and ADV reaper depositions on all generates for contractivity selections to descript solutions give and contractivity selections to descript the according to the contractivity selection of the contractivity selection of the contractivity selection of the contractivity of the detailed in fedurer revolution 133.	myoraulics					ТВС		62

Unlock human potential		iles, Ph 3-4: Produ and Material Selection		DAS c13 Indoor Pollutants	Product specifications, certificates, safety datasheets that demonstrate low VOC contents     D. Bill of quantities	Will be detailed further in search/station	Architect					ТВС		63
Unfock human potential	stipulated in the Green Sax Buildings rating tool. Engineered wood products include particleboard, phywood, Medium Darnsty Tehroboard (MoPD, Laminated Veneer Lumber (LVI), High-Pressure Laminate (MPL), Compact Laminate and decorative overlaid wood panels. This requirement excludes formwork.	Ph 3-4: Produ inits and Material		DAS c13 Indoor Pollutants	Product specifications, certificates, safety datasheets that demonstrate low-formalish-yiel contents     Ell of quantities	Will be detailed further in specifications	Architect					ТВС		64
Unfock human potential	- Ricon accustics, - Note emission, - Robe emission, - Robe - Toom - Acoustics performance	Ph 7-9: Construction, Commissionin Post Occupan and Operation	cy	GSP c13 Interna Noise Levels	Commitment by SI to conduct accounts prod occupancy availuation							TBC		65
Unlock human potential	Pesticide free environments Schools result has designed constructed and maintained without using chamicals for termite and other past control	Ph 7-9: Construction, Commissionin Post Occupan St and Operation	cy	Not covered in Green Star	Statement by head contractor that no pesticides or termites have been used.							твс		66

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