

BUILDING CODE OF AUSTRALIA 2022 ASSESSMENT REPORT

UPGRADES TO KINGSWOOD PUBLIC SCHOOL

46-54 SECOND AVENUE, KINGSWOOD, NSW 2747

Report prepared for:

Department of Education (DoE) Level 8, 259 George Street Sydney, NSW 2000

Attention: Lynne Donohoe (RPI)

Report prepared by:

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REVISION HISTORY

Revision No.	Prepared by	Description	Date
R01	Shaneel Sharma	Draft BCA report for review and comment	01/11/2024
R02	Shaneel Sharma	Updated BCA report for 95% Schematic 17/01/2025 Design	
R03	Shaneel Sharma	Updated BCA report to include electrical site upgrade works	17/01/2025
R04	Shaneel Sharma	Updated BCA report addressing Planner's comments	19/02/2025

□ BUILDING CODE □ ACCESS CONSULTING □ ESSENTIAL SERVICES

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1.0 Introduction and Documentation

This Building Code of Australia 2022 (BCA) Assessment Report has been prepared to accompany a Review of Environmental Factors (REF) prepared for the Department of Education (DoE) relating to upgrades to Kingswood Public School (the activity) under Part 5 of the *Environmental Planning and Assessment Act 1979* (EP&A Act) and *State Environmental Planning Policy (Transport and Infrastructure) 2021* (SEPP TI).

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.

This report examines and takes into account the relevant environmental factors in the Guidelines and Environmental Planning and Assessment Regulations 2021 under Section 170, Section 171 and Section 171A of the EP&A Regulation.

This report has been prepared to offer comments and recommendations with respect to Building Code of Australia 2022 compliance. The report is the result of the review of the below listed architectural drawings as available at the time of assessment against the requirements of the Building Code of Australia 2022 (BCA), Volume 1.

The design documentation assessed comprises only the plans developed by Fulton Trotter Architects and NDY as follows:

Drawing No/Rev.	Dated
Fulton Trotter Architects	
KIPS-FTA-XX-XX-DR-A-0001/02, KIPS-FTA-00-00-DR-A-1101/03, KIPS-FTA-00-00-DR-A-1201/03, KIPS-FTA-00-00-DR-A-1401/04, KIPS-FTA-00-00-DR-A-1602/01, KIPS-FTA-00-00-DR-A-1630/03, KIPS-FTA-B00M-GF-DR-A-2101/07, KIPS-FTA-B00M-GF-DR-A-2201/04, KIPS-FTA-B00M-LR-DR-A-2102/05, KIPS-FTA-B00M-ZZ-DR-A-3001/03, KIPS-FTA-B00M-ZZ-DR-A-3002/02, KIPS-FTA-B00M-ZZ-DR-A-3101/05, KIPS-FTA-B00M-ZZ-DR-A-4001/03, KIPS-FTA-B00M-ZZ-DR-A-4201/03, KIPS-FTA-B00M-ZZ-DR-A-4001/03, KIPS-FTA-B00M-ZZ-DR-A-4801/02, KIPS-FTA-B00M-ZZ-DR-A-4901/02, KIPS-FTA-B00M-ZZ-DR-A-6001/02, KIPS-FTA-B00M-ZZ-DR-A-6002/02, KIPS-FTA-B00M-ZZ-DR-A-9002/02	Various
NDY	-
KIPS-NDY-00-00-DR-E-001011/04	18/12/2024

We have reviewed the submitted architectural plans as tabulated above for compliance with the deemed-tosatisfy provisions of the Building Code of Australia 2022. Where compliance with the deemed to satisfy provisions is not possible a schedule of performance solutions will be required. We have made every attempt to cover the main issues under Sections B, C, D, E, F, G, I & J of the Building Code of Australia. Areas of the design are still being refined so that resolution will be possible prior to the issue of a Construction Certificate (CC) / Crown Design Verification Certificate (CDVC) for the works.

It is the responsibility of all designers and engineers to ensure that the design complies with the requirements of the Building Code of Australia, the Australian Standards and the applicable legislation. This report does not infer compliance of the design at this stage of documentation. Further assessment will be required to validate the full compliance of the building design.

This report does not assess the impact of the Disability Discrimination Act (DDA), which is outside the scope of the BCA, nor does it include compliance with Part D4, E3D8, F4D5, F4D6, F4D7 or F4D12 of the BCA. Refer to the Access Consultant's Report for DDA compliance. Any Access design amendments or additional information is to be addressed prior to the issue of a CC / CDVC.

This report is for the exclusive use of the client and cannot be used for any other purpose without prior permission from Philip Chun BC NSW Pty Ltd. The report is valid only in its entire form. Philip Chun accepts no responsibility for any loss suffered as a result of any reliance upon such assessment or report other than as being accurate at the date the report was issued.

1.1 Proposed Activity Description

The proposed activity for upgrades to Kingswood Public School includes:

- One (1) new single storey classroom building comprising eight (8) general learning spaces (GLS), two (2) learning commons areas, two (2) multi-purpose spaces and a verandah along the eastern side of the building;
- The construction of a covered walkway that will provide a connection between the proposed classroom building and an existing covered outdoor learning area (COLA) to the north east of the proposed building; and
- Removal of existing portable classroom buildings containing ten (10) classrooms.
- Substation upgrade works (delivered under a separate REF application)

1.2 Activity Site

The project site is located at 46-54 Second Avenue, Kingswood and is legally described as Lot 172 in Deposited Plan (DP) 839785. Kingswood Public School is located on the southern side of Second Avenue.

Figure 1 provides an aerial photograph of the site.



Figure 1: Aerial Photograph

1.3 Mitigation Measures

This assessment within this report has not identified any mitigation measures required to address impacts on the environment.

1.4 Evaluation of Environmental Impacts

Based on the identification of potential issues, and an assessment of the nature and extent of the impacts of the proposed development from a Building Code of Australia perspective, it is determined that:

• Potential impacts can be appropriately mitigated or managed / addressed to ensure that there is minimal effect on the environment.

2.0 List of Non-Compliances

The following list has been compiled based on a desktop review of the architectural plans submitted to date and are highlighted throughout the body of this report against the relevant BCA 2022 DtS Provisions in red. Items are still being developed at this stage and will need reassessment with respect to justification of performance solutions and further assessment as the design changes and progresses. Coordination with the design team will be needed to determine if the intent is to propose a DtS solution or if a fire engineered solution is preferred.

BCA Reference	Details of Non-compliance	
D3D25 - Swinging doors	All exit/entry doors from the General Learning Spaces for the proposed building must swing outwards. Architect to amend or otherwise be justified by fire engineering.	

Areas outside fire safety that may have possible variances from the deemed to satisfy provisions and hence addressable by performance solutions that may also need to be considered are as follows: -

BCA Reference	Details of Non-compliance
F3P1 -	A roof and external wall (including openings around windows and doors) must prevent the penetration of water that could cause —
Weatherproofing	(a) unhealthy or dangerous conditions, or loss of amenity for occupants; and (b) undue dampness or deterioration of building elements.

Where a Deemed-to-Satisfy Solution is proposed, Performance Requirements F3P1 is satisfied by complying with the DtS prescriptive requirements of F3D2 to F3D5. Please note that CFC Cladding is not prescribed under DtS and must be addressed via Performance Solution.

3.0 Building Assessment

BCA Parameters – New Building		
BCA Classifications Class 9b School Classroom Building		
Rise in Storeys (RIS) 1		
Effective Height 0m		
Type of Construction C		
Floor Area Approximately 894m ²		
Structural Importance Level Structural Engineer to confirm		

Classes and use and type of construction of the buildings are as follows:

Building Classifications

The following BCA Classifications are considered applicable to the proposed works based on the classification and use of the building.

Class 9 buildings

A Class 9 building is a building of a public nature and includes the following sub-classifications:

- a. Class 9a a health-care building including any parts of the building set aside as laboratories, and includes a health-care building used as a residential care building.
- b. Class 9b an assembly building including a trade workshop or laboratory in a primary or secondary school.
- c. Class 9c a residential care building.

Class 9b buildings are assembly buildings which include schools.

4.0 Structure

Clause Descrip	ption	Requirement	Assessment
SECTION B			
Section B Structu	ıre	Structural provisions	The structural components of the buildings must comply with the applicable Australian Standards. A structural engineer will need to ensure the structural requirements of BCA Clauses B1D2, B1D3, and B1D4 are considered in the building designs and works (including the importance level of the buildings). This will mean assessment according to all relevant parts of Section B of the Building Code of Australia and where any provisions cannot be met, a performance solution to be formulated for consideration of the relevant project stakeholders. Under Part B1D1 of the Building Code of Australia (BCA), buildings or structures must be designed to withstand loads including earthquake loads in accordance with AS1170.1-2002, AS1170.2-2021, AS1170.4-2007, as appropriate. Whilst earthquake loads have obvious implications to the structural design of a building or structure and any alterations to structural elements within an existing building or structure, it is important to note that within AS1170.4-2007, there is also an obligation for certain non-structural parts, components and their connections to be designed & constructed to withstand earthquake loads. Structural Engineer to note the requirements for the works prior to issue of a CC / CDVC. Compliance is readily achievable. Structural design and certification required prior to the issue of the CC / CDVC for the works.

5.0 Fire Resistance

Clause	Description	Requirement	Assessment
SECTION C	- FIRE RESISTANCE		
C2D2	Type of construction required	Type C construction is required. Refer to Appendix A of this report for specific FRLs applicable to these buildings.	Structural Engineer to note the requirements for the development in accordance with the requirements of Specification 5. Compliance readily achievable. Details demonstrating compliance must be provided with the application for CC / CDVC.
C2D11	Fire hazard properties	All new surface finishes, assemblies and linings are to comply with BCA Clause C2D11 and Specification 7 including NSW variations with regard to Fire Hazard Properties of various finishes and materials within the building.	Compliance can be readily achievable. All new floor, wall and ceiling details to be provided demonstrating compliance with Specification 7 prior to issue of a CC / CDVC.
C3D3	General floor area and volume limitations	The tables below depict the floor area and volume limitations applicable for Type C construction.ClassificationType C ConstructionClass 5, 9b orMax floor area – 3,000m29cMax volume – 18,000m2	Compliance is readily achievable.
C3D13	Separation of equipment	Equipment comprising of lift motors, lift control panels, emergency generators, central smoke control plant, boilers or a battery or batteries installed in the building that have a total voltage exceeding 12 volts and a storage capacity exceeding 200kWh must be constructed with an FRL in accordance with Spec 5 but not less than 120/120/120 and any doorway protected with a self-closing fire door having an FRL of not less than -/120/30.	Services engineer or architect to confirm if at all applicable prior to issue of any CC / CDVC.
C3D14	Electricity supply system	An electricity substation or main switchboard that sustains emergency equipment operating in the emergency mode located within a building must be separated from other parts of the building by construction having an FRL of not less than 120/120/120, and doorways in that construction to be self-closing fire doors with an FRL of not less than - /120/30.	A MSB Room / cupboard sustaining emergency equipment located within a building must be fire-separated by FRL 120/120/120 construction. Details demonstrating compliance must be provided with the application for CC / CDVC.

6.0 Access and Egress

Clause	Description	Requirement	Assessment		
SECTION D -	SECTION D – ACCESS AND EGRESS				
D2D3	Number of exits required	 In Class 9 buildings, a minimum of 2 exits must be provided from: a. Any storey used as a Class 9b early childhood centre. b. Each storey in a primary or secondary school with a rise in storeys of 2 or more. c. Any storey or mezzanine that accommodates more than 50 persons, calculated under D2D18. 	Complies. Access to 2 exits is provided.		
D2D5	Exit travel distances	No point on a floor must be more than 20 m from an exit, or a point from which travel in different directions to 2 exits is available, in which case the maximum distance to one of those exits must not exceed 40 m.	Travel distances are within DtS limits and comply.		
D2D6	Distance between alternative exits	Exits used as alternative means of egress must be no closer than 9m apart and no more than 60m apart. Alternate paths must also not converge to less than 6m apart.	Complies. Egress has been taken to open space.		
D2D8	Widths of exits and paths of travel to exits	 If the storey accommodates more than 200 persons, the aggregate unobstructed width of required exits or paths of travel to an exit, except for doorways, must be not less than— a. 2 m plus 500 mm for every 60 persons (or part) in excess of 200 persons if egress involves a change in floor level by a stairway or ramp with a gradient steeper than 1 in 12; or b. in any other case, 2 m plus 500 mm for every 75 persons (or part) in excess of 200. 	Complies. Level / egress not steeper than 1:8 has been provided along the perimeter of the covered movement area along the front of the classrooms.		
D2D10	Exit width not to diminish in direction of travel	The unobstructed width of a required exit must not diminish in the direction of travel to a road or open space.			
D2D15	Discharge from exits	An exit must not be blocked at the point of discharge and where necessary, suitable barriers must be	Architect to note the gradients of the new pathways, however compliance appears to be readily achievable.		

Clause	Description	Requirement	Assessment
		provided to prevent vehicles from blocking the exit, or access to it. Where required exit leads to open space, path of travel to the road must be minimum 1m or the minimum width of the required exit. Also, the path of travel to the road must have a gradient not steeper than 1:8 or 1:14 where required by Part D4 of the BCA2022.	
D2D23	Egress from primary schools	Every part of a Class 9b primary school must be wholly within a storey that provides direct egress to a road or open space. The requirements of the above do not apply to a building with a rise in storeys of 4 or less, where the primary school is the only use in that building.	The proposed building is one storey and complies.
D3D8	Installation of exits and paths of travel	 Services or equipment must be enclosed with non-combustible construction and suitably sealed against smoke spreading from the enclosure where they are installed in a required exit, or in any corridor, hallway, lobby or the like leading to a required exit and the service or equipment comprises of: a) electricity meters, distribution boards or ducts; or b) central telecommunications distribution boards or equipment; or c) electrical motors or other motors serving equipment in the building. 	Ensure the EDB cupboard is also smoke sealed and provided with non-combustible / steel backing to the doors.
D3D14 – D3D22	Construction of stairways, balustrade and handrails	The construction and discharge of stairs, landings, thresholds, balustrades, and handrails will need to meet the requirements of the BCA and AS1428.1.	Architect to note.
D3D24	Doorways and doors	A power-operated door in a required exit must be able to be opened manually under a force of not more than 110N if there is a malfunction or failure of the power source and where it leads directly to a road or open space it must open automatically if there is a power failure to the door or on the activation of a fire or smoke alarm anywhere in the fire compartment served by the door.	Any new power operated doors to comply. Architect to note. Further details required to ensure compliance prior to the issue of a CC / CDVC.

Clause	Description	Requirement	Assessment
D3D25	Swinging doors	A swinging door in a required exit or forming part of a required exit must swing in the direction of egress unless it serves a building or part with a floor area not more than 200m2, it is the only required exit from the building or part and it is fitted with a device for holding it in the open position.	All exit/entry doors from the General Learning Spaces for the proposed building must swing outwards. Architect to amend or otherwise be justified by fire engineering. The Cleaners Room doorway must be provided with a hold-open device, or the doorway must swing outwards.
D3D26	Operation of latch	All doors in an exit, forming part of the exit or in the path of travel to the exit must be openable without a key from the egress side by a single hand downward action or single hand push action installed in accordance with this part of the BCA.	Architect to note. Further details required to ensure compliance prior to the issue of a CC / CDVC.
Part D4	Access for people with a disability	Access for people with a disability	Refer to the Access Consultant's Report for DDA compliance.

7.0 Services and Equipment

Clause	Description	Requirement	Assessment
SECTION E	- SERVICE AND EQU	IPMENT	
E1D2	Fire Hydrants	A fire hydrant system must be provided to serve a building— a. having a total floor area greater than 500 m ² ; and b. where a fire brigade station is— i. no more than 50 km from the building as measured along roads; and ii. equipped with equipment capable of utilising a fire hydrant. The fire hydrant system must be installed in accordance with AS 2419.1-2021.	Hydraulic / wet fire services consultant to provide details for assessment including a single line diagram to demonstrate compliant coverage. Details to be provided prior to the issue of a CC / CDVC.
E1D14	Portable fire extinguishers	PFE's are required to be located throughout the building in accordance with Clause E1D14 of BCA2021. PFE's are to comply with AS2444-2001.	Compliance readily achievable. Hydraulic / wet fire services consultant to provide details for assessment. Details to be provided prior to the issue of a CC / CDVC.
E2D16	Smoke hazard management	A building or part of a building used as an assembly building must be provided with automatic shutdown of any air-handling system (other than non-ducted	Automatic shutdown of air-handling systems (other than non-ducted individual room units with a capacity not more than 1000 L/s and miscellaneous exhaust air systems installed in accordance with Sections 5 and 6 of AS 1668.1) must be provided.

Clause	Description	Requirement	Assessment
	Class 9b – all assembly buildings	 individual room units with a capacity not more than 1000 L/s and miscellaneous exhaust air systems installed in accordance with Sections 5 and 6 of AS 1668.1) which does not form part of the smoke hazard management system, on the activation of— a. smoke detectors installed complying with S20C6; and b. any other installed fire detection and alarm system, including a sprinkler system (other than a FPAA101D or FPAA101H system) complying with Specification 17. 	Services consultants to note. Details demonstrating compliance to be provided with the application for CC / CDVC.
E4D2 - E4D6, E4D8	Visibility in an emergency, exit signs and warning systems	Emergency lighting, exit and directional signs are to be located, designed and installed in accordance with Part E4 of BCA 2022 and AS2293.1-2018.	Compliance readily achievable. Electrical consultant to provide details for assessment. Details to be provided prior to the issue of a CC / CDVC.

8.0 Health and Amenity

Clause	Description	Requirement	Assessment
SECTION F	- HEALTH AND AME	NITY	
F1D3	Stormwater drainage	Stormwater drainage must be designed and constructed in accordance with AS/NZS 3500.3.	Civil / hydraulic engineering design details demonstrating compliance to be provided with the application for CC / CDVC.
F1D6	Damp-proofing	Moisture from the ground must be prevented from reaching the structure by installation of damp-proof course or impervious sheet material in accordance with AS3660.1 where required.	Architectural and structural engineering details demonstrating compliance to be provided with the application for CC / CDVC.
F1D7	Damp-proofing of floors on the ground	 (1) If a floor of a room is laid on the ground or on fill, moisture from the ground must be prevented from reaching the upper surface of the floor and adjacent walls by the insertion of a vapor barrier in accordance with AS 2870. (2) The requirements of (1) do not apply where— (a) weatherproofing is not required; or (b) the floor is the base of a stair, lift or similar 	Designers and consultants to note. Details demonstrating compliance to be provided with the application for CC / CDVC.

Clause	Description	Requirement	Assessment			
		shaft which is adequately drained by gravitation or mechanical means.				
F3D2	Roof coverings	 A roof must be covered with— a. roof tiles complying with AS 2049, fixed in accordance with AS 2050; or b. metal sheet roofing complying with AS 1562.1; or c. plastic sheet roofing designed and installed in accordance with AS 1562.3; or d. terracotta, fibre-cement and timber slates and shingles designed and installed in accordance with AS 4597, except in cyclonic areas; or e. an external waterproofing membrane complying with F1D5. 	Designers and consultants to note. Details demonstrating compliance to be prov with the application for CC / CDVC.		be provided	
F3D5	Wall cladding	 External wall cladding must comply with one or a combination of the following: a) Masonry, including masonry veneer, unreinforced and reinforced masonry: AS 3700. b) Autoclaved aerated concrete: AS 5146.3. c) Metal wall cladding: AS 1562.1. 	Designers and consultants to note. Details dem with the application for CC / CDVC. Note that the only permitted via Performance Solution as below A Performance Solution addressing Performance provided for any wall cladding systems not lister F3P1 - A roof and external wall (including open must prevent the penetration of water that could (a) unhealthy or dangerous conditions, or loss of (b) undue dampness or deterioration of building	e proposed C ow. ce Requireme d in BCA 202: ings around v d cause — f amenity for	FC externation nt F3P1 be 2 F3D5. vindows an	al cladding is slow must be d doors)
F4D4	Facilities in Class 3 to 9 buildings	Sanitary facilities must be provided in accordance with this clause.	The existing facilities identified on plan can cate of 1800 students (900 male + 900 female) and on equal distribution between male and female	40 staff (20 m		
			Class 9b - schools	Pans	Urinals	Washbasins
			Male employees	2	1	3
			Allowable Population	40	20	90
			Female employees	3	-	3
				35		
			Allowable Population	30	-	90
			Allowable Population Male students	13	- 14	90 17
			Male students	13	14	17

Clause	Description	Requirement	Assessment
			 The expected maximum population of the school post construction is to be 515 students and 51 staff members. Therefore: An adequate number of existing facilities is provided for students. An adequate number of existing facilities is not provided for staff, however it should be noted that this is an existing condition and the population of the school is not proposed to change as a consequence of the upgrades as the new classrooms will be replacing existing demountable classrooms.
F4D5 F4D6	Accessible sanitary facilities	Accessible unisex sanitary compartments must be provided in accessible parts of the building.	Refer to Access Report to ensure compliance prior to issue of any CC / CDVC.
F5D2	Height of rooms and other spaces	 The height of rooms and other spaces in a Class 9b building must be not less than— a. for a school classroom or other assembly building or part that accommodates not more than 100 persons — 2.4 m; and b. for a theatre, public hall or other assembly building or part that accommodates more than 100 persons — 2.7 m; and c. for a corridor— i. that serves an assembly building or part that accommodates not more than 100 persons — 2.4 m; or ii. that serves an assembly building or part that accommodates more than 100 persons — 2.4 m; or 	Compliance is readily achievable. Ceiling heights to a minimum of 2700mm have been nominated.
F6D2	Provision of natural light	Natural light must be provided in: a. A Class 9b building — to all general purpose classrooms in primary or secondary schools and all playrooms or the like for the use of children in an early childhood centre.	Compliance is readily achievable.
F6D3	Methods and extent of natural light	Required natural light must be provided by— a. windows, excluding roof lights, that— i. have an aggregate light transmitting area measured exclusive of framing members, glazing bars or other obstructions of not less than 10% of	

Clause	Description	Requirement	Assessment
		the floor area of the room; and ii. are open to the sky or face a court or other space open to the sky or an open verandah, carport or the like; or b. roof lights, that— i. have an aggregate light transmitting area measured exclusive of framing members, glazing bars or other obstructions of not less than 3% of the floor area of the room; and ii. are open to the sky; or c. a proportional combination of windows and roof lights required by (a) and (b).	
F6D5	Artificial Lighting	Artificial lighting must be provided to all rooms that are frequently occupied, all spaces required to be accessible, all corridors, lobbies, internal stairways, other circulation spaces and paths of egress. The artificial lighting system must comply with AS/NZS 1680.0.	Electrical consultant to provide details for assessment. Details to be provided prior to the issue of a CC / CDVC.
F6D6	Ventilation of rooms	A habitable room, office, shop, factory, workroom, sanitary compartment, bathroom, shower room, laundry and any other room occupied by a person for any purpose must have natural ventilation complying with F6D7; or a mechanical ventilation or air- conditioning system complying with AS 1668.2 and AS/NZS 3666.1.	Mechanical consultant to provide details for assessment. Details to be provided prior to the issue of a CC / CDVC.

9.0 Ancillary Provisions

Clause	Description	Requirement	Assessment
SECTION G – ANCILLARY PROVISIONS - PART G5 CONSTRUCTION IN BUSHFIRE PRONE AREAS		DNE AREAS	
G5D2	Application of part	The Deemed-to-Satisfy Provisions of this Part apply in a designated bushfire prone area to— a. a Class 2 or 3 building; or b. a Class 4 part of a building; or c. a Class 9 building that is a special fire protection	Refer to Review of Environmental Factors and / or Bushfire Risk Assessment Report where it has been confirmed that the site is not mapped as bushfire prone land.

Clause	Description	Requirement	Assessment
		 purpose located in an area subject to a Bushfire Attack Level (BAL) not exceeding BAL—12.5, determined in accordance with Planning for Bush Fire Protection; or a Class 10a building or deck immediately adjacent or connected to a building or part of a type in (a), (b) or (c). 	
G5D4	Protection – certain Class 9 buildings	 In a designated bushfire prone area the following must comply with Specification 43: a. A Class 9a health-care building. b. A Class 9b— i. early childhood centre; or ii. primary or secondary school. c. A Class 9c residential care building. In a designated bushfire prone area, a Class 10a building or deck immediately adjacent or connected to a building of a type listed in (1) must comply with S43C2 and S43C13. 	

10.0 Energy efficiency

Clause	Description	Requirement	Assessment
SECTION .	J ENERGY EFFICIECNY		
Section J	Energy Efficiency provisions	Energy efficiency provisions	Proposed works will be required to be compliant with the energy efficiency requirements under Section J of the BCA 2022. A Section J consultant's report will need to be provided to confirm compliance with the BCA DtS provisions or a J1V3 report must be submitted demonstrating compliance prior to the issue of the CC / CDVC. The building is in Climate Zone 6. Please note that infrastructure and provisions for future solar panel may be required for the proposed building as per Part J9D5 subject to the Section J Consultant's advice.

11.0 Conclusion

We have assessed the drawings with respect to the Building Code of Australia 2022. We are confident that the design is generally capable of meeting the Deemed-to-Satisfy and Performance Requirements of the Building Code of Australia 2022 except where noted within sections of this report. Areas of the design are still being developed and are to be addressed prior to issue of the CC / CDVC for the works.

APPENDIX A – FIRE RESISTANCE OF BUILDING ELEMENTS

TYPE C FIRE-RESISTING CONSTRUCTION – FIRE-RESISTANCE OF BUILDING ELEMENTS

Tables S5C24a: Type C Construction: FRL of parts of	external walls				
	FRL (in minute	s): Structural ad	lequacy/ integrit	y / insulation	
Distance from a fire-source feature	Class 2, 3 or	Class 5, 7a	Class 6	Class 7b or	
	4 part	or 9		8	
Less than 1.5m	90/90/90	90/90/90	90/90/90	90/90/90	
1.5m to less than 3m	-/-/-	60/60/60	60/60/60	60/60/60	
3m or more	-/-/-	-/-/-	-/-/-	-/-/-	
Table S5C24b: Type C Construction: FRL of external c	olumns not incor	porated into an o	external wall		
	FRL (in minute	es): Structural ad	lequacy/ integrit	y / insulation	
Distance from a fire-source feature	Class 2, 3 or	Class 5, 7a	Class 6	Class 7b or	
	4 part	or 9		8	
Less than 1.5m	90/-/-	90/-/-	90/-/-	90/-/-	
1.5m to less than 3m	-/-/-	60/-/-	60/-/-	60/-/-	
3m or more	-/-/-	-/-/-	-/-/-	-/-/-	
Table S5C24c: Type C Construction: FRL of common v	walls and fire wal	ls			
	FRL (in minute	es): Structural ad	Structural adequacy/ integrity / insulation		
Wall Type	Class 2, 3 or	Class 5, 7a	Class 6	Class 7b or	
	4 part	or 9		8	
Loadbearing or Non-loadbearing	90/90/90	90/90/90	90/90/90	90/90/90	
Table S5C24d: Type C Construction: FRL of internal w	alls				
	FRL (in minute	s): Structural ac	lequacy/ integrit	<u>y</u> / insulation	
Location	Class 2, 3 or	Class 5, 7a	Class 6	Class 7b or	
	4 part	or 9		8	
Bounding public corridors, public lobbies and the like	60/60/60	-/-/-	-/-/-	-/-/-	
Between or bounding sole-occupancy units	60/60/60	-/-/-	-/-/-	-/-/-	
Bounding a stair if required to be rated	60/60/60	60/60/60	60/60/60	60/60/60	
Table S5C24e: Type C Construction: FRL of roof					
		s): Structural ac			
Location	Class 2, 3 or	Class 5, 7a	Class 6	Class 7b or	
	4 part	or 9		8	
Roofs	-/-/-	-/-/-	-/-/-	-/-/-	

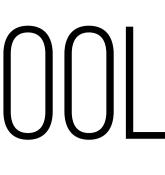
APPENDIX B – MARK UPS

Philip Chun - 24-222621_KingswoodPS_BCAReport_R04

KINGSWOOD PUBLIC SCHOOL FOR SCHOOL INFRASTRUCTURE NSW 7068KW01



plot date: Friday, 20 December 2024, 9:00 AM file location: BIMcloud: FTA-SYD-BIM26 - BIMcloud Basic for Archicad 26/7068KW01 Kingswood Public School





Type of Mark Up : For information only

Date : 19/02/2025

Scope of Mark Up

BCA Comments

Notes on design :

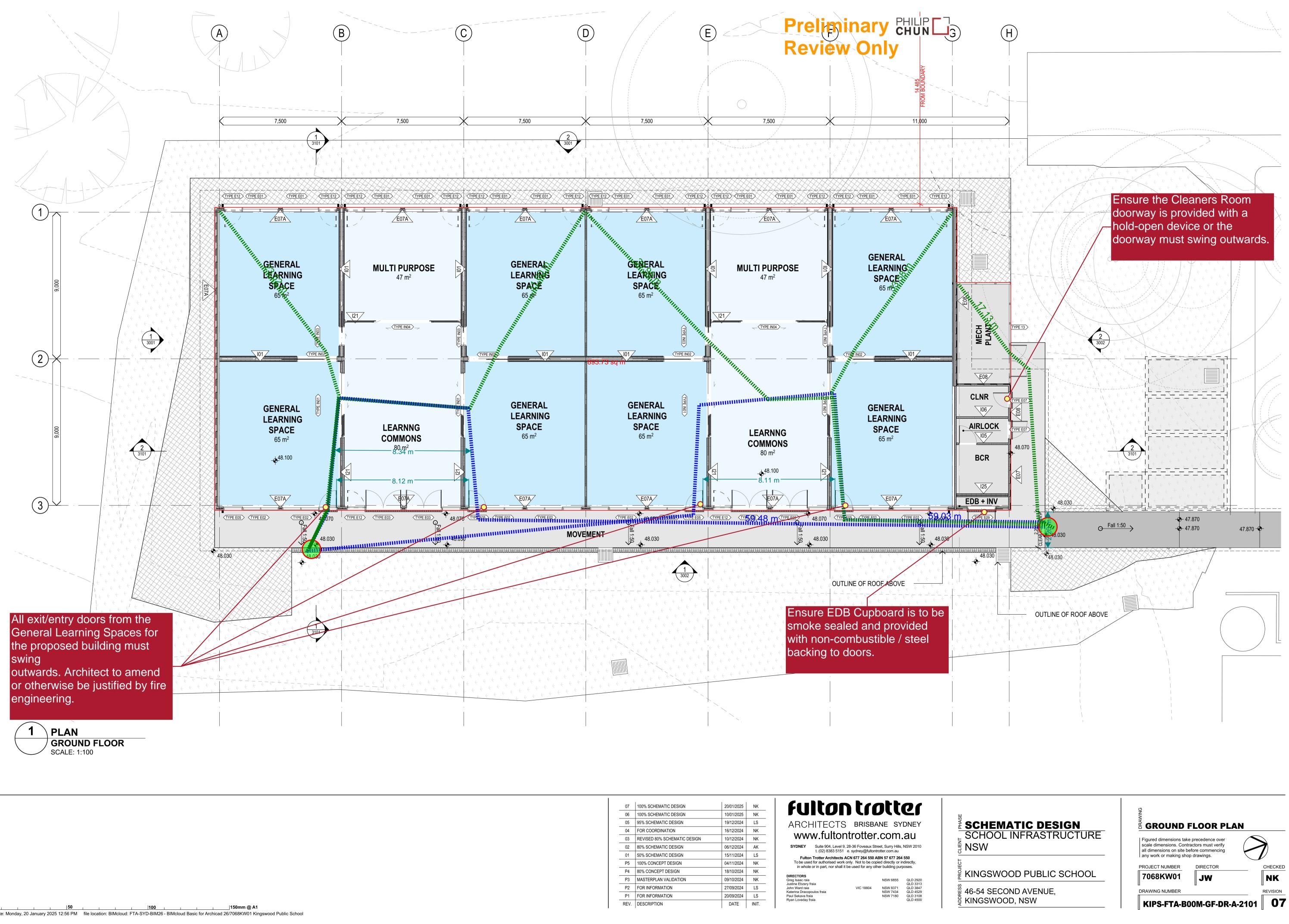
The document mark up is for information only and is based on the documentation provided to Philip Chun. Philip Chun takes no responsibility for the correctness of the provided documentation. Philip Chun have assessed the design at high level only in accordance with the BCA and have not assessed the design to the relevant Australian Standards nor the brief. It is the responsibility of the designers to ensure the design fully complies with the BCA, Australian Standards and the brief.

Mark Up By : SS

PHILIP CI CHUN CI Review Only

	,		Drawing Name	Rev
FTA XX	ΧХ	DR A 0000	COVER SHEET + DRAWING LIST	03
FTA XX	ΧХ	DR A 0001	SPECIFICATION SCHEDULE & MATERIAL SELECTIONS	02
FTA 00	00	DR A 1001	EXISTING SITE PLAN DEMOLITION SITE PLAN SITE ANALYSIS PLAN PROPOSED SITE PLAN SITE SECTION EXTERNAL WORKS PLAN STAGING PLAN PLAYSCAPE CALCULATION EXISTING AMENITIES STRATEGY TREE REMOVAL PLAN INDIGENOUS ARTWORK STRATEGY EXTERNAL MATERIAL AND FINISHES SHADOW DIAGRAM	02
FTA 00	00	DR A 1002	DEMOLITION SITE PLAN	04
FTA 00	00	DR A 1003	SITE ANALYSIS PLAN	02
FTA 00	00		PROPOSED SITE PLAN	03
FTA 00	00	DR A 1201	SITE SECTION	03
FTA 00	00	DR A 1401	EXTERNAL WORKS PLAN	04
FTA 00	00	DR A 1501	STAGING PLAN	04
FTA 00	00	DR A 1601	PLAYSCAPE CALCULATION	01
FTA 00	00	DR A 1602	EXISTING AMENITIES STRATEGY	01
FTA 00	00	DR A 1604	TREE REMOVAL PLAN	01
FTA 00	00	DR A 1610	INDIGENOUS ARTWORK STRATEGY	02
FTA 00	00	DR A 1630	EXTERNAL MATERIAL AND FINISHES	03
FTA 00	00	DR A 1640		01
FTA 00	00	DR A 1650	CONSTRUCTION MANAGEMENT STRATEGY	01
FTA B00M		DR A 2101	GROUND FLOOR PLAN	05
FTA B00M		DR A 2102	ROOF PLAN	05
FTA B00M		DR A 2201	REFLECTED CEILING PLAN	04
FTA B00M		DR A 3001	ELEVATIONS 01	03
FTA B00M		DR A 3002	ELEVATIONS 02	02
FTA B00M		DR A 3101		03
FTA B00M			WALL TYPES DETAILS / PARTITION DETAILS	03
FTA B00M		DR A 4201	WALL SECTIONS 01	03
FTA B00M		DR A 4202	WALL SECTIONS 02	02
FTA B00M		DR A 4801	TYPICAL COVERED WALKWAY DETAILS	02
FTA B00M		DR A 4901	TYPICAL FASCIA DETAILS	02
FTA B00M		DR A 6001	EXTERNAL DOOR & WINDOW SCHEDULE	02
FTA B00M		DR A 6002	INTERNAL DOOR & WINDOW SCHEDULE	02
FTA B00M		DR A 9001		02
FTA B00M	ZZ	DR A 9002	PERSPECTIVES 2	02





07	100% SCHEMATIC DESIGN	20/01/2025	NK
06	100% SCHEMATIC DESIGN	10/01/2025	NK
05	95% SCHEMATIC DESIGN	19/12/2024	LS
04	FOR COORDINATION	16/12/2024	NK
03	REVISED 80% SCHEMATIC DESIGN	10/12/2024	NK
02	80% SCHEMATIC DESIGN	06/12/2024	AK
01	50% SCHEMATIC DESIGN	15/11/2024	LS
P5	100% CONCEPT DESIGN	04/11/2024	NK
P4	80% CONCEPT DESIGN	18/10/2024	NK
P3	MASTERPLAN VALIDATION	09/10/2024	NK
P2	FOR INFORMATION	27/09/2024	LS
P1	FOR INFORMATION	20/09/2024	LS
REV.	DESCRIPTION	DATE	INIT.