

# Sydney Newcastle Port Macquarie

building surveying fire engineering building codes assessments project management access assessments energy and Part J assessments

30 September 2019

Turnbull Planning International Pty Limited Attention – Claire Waddington 2301/4 Daydream Street WARRIEWOOD NSW 2102

Dear Claire,

By Email

#### Re: 39 Cabbage Tree Road, BAYVIEW NSW 2104; BCA Desktop Assessment

Further to the email dated 29 September 2019 from Blue Sky Building Designs.

## **Purpose of Report**

The purpose of this report is to provide a desktop plan study to identify the requirements of the Building Code of Australia for the proposed new commercial use of the existing building against the 'Deemed-to-Satisfy' provisions of the BCA, to identify areas of noncompliance and providing upgrading strategies.

#### **Location of Premises**

The premises are located on the southern side of Cabbage Tree Road and adjacent to the Bayview Golf Club, BAYVIEW NSW 2104.



Location plan – 39 Cabbage Tree Road, Bayview NSW 2104 – Courtesy of Google Maps

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#### **Building Description**

This BCA commentary relates to the proposed new commercial building located at 39 Cabbage Tree Road, BAYVIEW NSW 2104. It is proposed to construct a new three (3) storey indoor recreational complex with associated carparking and amenities.

#### **BCA Version**

Our reference document is the Building Code of Australia 2019 (BCA) Volume 1 including the NSW variations as applicable.

#### **Plan Version**

We are in receipt of a copy of architectural plans prepared by Blue Sky Building Designs, dated 27.09.2019, Project Number 2019031, Drawings Numbered A101 – A115, Revision 3 including – Site Plan, Ground Floor Plan, Level 1, Level 2, Elevations and Elevations.

#### Compliance Issues with the Building Code of Australia

For the purposes of our assessment and the BCA, we would describe the building as being a three (3) storey Class 9b building with two (2) levels of amenities etc. and one (1) level of carparking – Class 7a, having a rise in storeys of three (3) and being required to satisfy the requirements of Type A construction.

The comments below are a summary of the issues detailed in the attached table, being -

#### 1. Fire Resistance and Compartmentation

In BCA terms, the type of fire-resistant construction required for a building is determined because of both the number of storey's a building exhibits and compliance with the area and volume table in clause C2.2.

In this instance, the proposed building is to be a three (3) storey provided with a concrete structure for loadbearing parts, lightweight non-loadbearing external walls and non-combustible roof. The proposal will largely comply with the requirements of Type A construction, subject to details being supplied and assessed.

For compartmentation, the application of Table C2.2 is applicable to both the Class 9b and 7a – see table below.

Table C2.2 MAXIMUM SIZE OF FIRE COMPARTMENTS

Classification		Type of construction of building			
		Type A	Type B	Type C	
5, 9b or 9c aged care building	max floor area—	8 000 m <sup>2</sup>	5 500 m <sup>2</sup>	3 000 m <sup>2</sup>	
	max volume—	48 000 m <sup>3</sup>	33 000 m <sup>3</sup>	18 000 m <sup>3</sup>	
6, 7, 8 or 9a (except for <i>patient care</i>	max floor area—	5 000 m <sup>2</sup>	3 500 m <sup>2</sup>	2 000 m <sup>2</sup>	
areas)	max volume—	30 000 m <sup>3</sup>	21 000 m <sup>3</sup>	12 000 m <sup>3</sup>	

**Note:** See C2.5 for maximum size of compartments in *patient care areas* in Class 9a *health care buildings*.

Extract from BCA – Table C2.2

#### 2. Part D – Access and Egress

#### (i) Part D1 – Provision for Escape

In terms of egress, the proposed building must be provided with at least one (1) exit. In this instance, it is proposed to provide the 1<sup>st</sup> floor level of the building with access to two (2) alternative exits with the Ground and 2<sup>nd</sup> floor levels with access to only one (1) exit.

A single fire isolated internal stairway will serve all floors of the building. The stair will discharge at ground floor level directly to open space onto a pathway, at grade, leading into the roadway.

The 1<sup>st</sup> floor level of the building is provided with 2 alternative exits, being the fire isolated stair and an external stair. The external stair is proposed to be attached externally of the building and will discharge directly to the ground. Direct access to the street is shown on the plan.

The 2<sup>nd</sup> floor level of the building is provided with access to the fire isolated stairway only. Travel distance to the fire-isolated stair does not exceed the maximum 20m to a single exit.

For population levels within the building, we have been advised that the total population of the building will not exceed Fifty (50) persons, with a maximum of thirty (30) persons to occur within the building at any only time.

In accordance with the provisions of BCA Clause D1.13 – Number of persons accommodated; a population count has been estimated for the 2<sup>nd</sup> floor level of the building at a total capacity of approximately Forty-one (41) persons – see BCA Clause D1.13 (a) and Table D1.13. This figure is less than Fifty (50) persons referred in BCA Clause D1.2 (d) (vi) where a storey or mezzanine that accommodates 50 or more person, is required to be served by 2 exits.

In terms of Egress and travel distance, within the building to the nominated exits, are considered to be BCA compliant.

#### (ii) Part D2 – Construction of Exits

In terms of compliance with Part D2, the plans are not detailed sufficiently to make comment about those matters and in any case, the construction phase of the project will enable compliance with these matters.

## (iii) Part D3 – Access for People with Disabilities

In terms of Part D3 – Access for People with Disabilities, we note, the plans are sufficiently detailed to see that street access will be provided into the allotment, as well as, to each level of the building being served by an internal passenger lift. The construction phase of the project will enable compliance with these matters.

#### 3. Services and Equipment

In terms of services and equipment, we note that the total floor area of building is approximately, 605m<sup>2</sup>. The BCA requires a building with a floor area greater than 500m<sup>2</sup> to be provided with access to a hydrant system, fire hose reels, and portable fire extinguishers, emergency lighting and illuminated exit and directional signage.

In terms of Fire Hydrants, the use of street hydrants is permissible provided the coverage and water pressure level requirements of AS 2419.1 are satisfied, then internal hydrants of the property may not be required.

In terms of Fire Hose Reels, where no internal (of the property) fire hydrants are provided and a fire compartment exceeds 500m<sup>2</sup> in area, fire hose reels are required to be provided to the building and within 4mts of an exit.

In terms of smoke control, the install of a smoke detection and alarm will address the issue of smoke control, provided an Occupant Warning System compliant with AS 1670.1 is also provided.

In terms of passenger lifts, details are required to determine compliance with Part E3 of the BCA.

In terms of emergency lighting and illuminated exit and directional signage, details are required to determine compliance with Part E4 of the BCA.

#### 4. Health and Amenity

In terms of Health and Amenity, we note that the plans are not detailed sufficiently to make a comment, other than to note, that compliance with this section of the BCA needs to be achieved. It is noted that the building will need to be provided with a system of mechanical ventilation and electric lighting.

In terms of sanitary facilities, we note from the plans the following, being – (a) Patrons

	W/C	H/basins	Urinals	Shower
Male	3	2	2	2
Female	4	3		2

- (b) Staff Unsex facilities maybe provided for up to 10 employees
- (c) Accessible provided separately at levels 1 and 2

## 5. Energy Efficiency

In terms of Energy Efficiency, we note the plans are not detailed sufficiently to make a comment, other than to note, that compliance with this section of the BCA needs to be achieved.

#### **Summary**

In our view, the proposed building is readily able to satisfy the performance requirements of the BCA subject to items mentioned in this report.

Thank you once again for this opportunity to be of assistance and for any additional information, please contact the undersigned.

Yours faithfully,

All State Building Surveying Pty Ltd

Sean O'Brien, Managing Director

sean@allstatebuildingsurveying.com.au 0417 027 749.

Attachments

1. BCA Check List Report

2. Proposed Fire Safety Measure Table

PROJECT - Class 9b & 7a; ADDRESS - 39 Cabbage Tree Road, Bayview

# **BCA CHECKLIST 2019**

## Part A - General

CLASSIFICATION	A1.3	Use	Class 9b & 7a
			Gym and Carpark

Part C – Fire Resistance	Clause	Compliant?	Comment	Work required
RISE IN STOREYS	C1.2	Noted	3	
TYPE OF CONSTRUCTION	C1.1	Complies	Type B	
FRLs REQUIRED	Spec C1.1	120/120/120		
EXTERNAL WALLS	Spec C1.1	120/120/120	FI	Construction
COMPARTMENTATION	C2.2	Complies		
FIRE WALLS AFFECTED	C2.7	120/120/120	N/A	
OPENINGS IN EXTERNAL WALLS	C3.2	Noted		
PROTECTION OF OPENINGS	C3.4	Noted	Complies	
OPENINGS IN FIRE WALLS	C3.5	Fire Rated	N/A	
BOUNDING CONSTRUCTION	C3.11	N/A		

#### Part D1 – PROVISION FOR ESCAPE

NO OF EXITS NEEDED	D1.2	Complies	1 Needed	2 provided
FIRE ISOLATED	D1.3	Complies		3 levels joined
TRAVEL DISTANCES	D1.4	Complies		
DISTANCE BETWEEN EXITS	D1.5	Complies		
EXIT DIMENSIONS	D1.6	Complies		
FIRE ISOLATED STAIRS	D1.7	Complies		
EXTERNAL STAIRS	D1.8	Complies		
NON-FIRE ISOLATED STAIRS	D1.9	N/A		
DISCHARGE FROM EXITS	D1.10	Complies		
HORIZONTAL EXITS	D1.11	N/A		
NON-REQUIRED STAIRS	D1.12	Noted		
PERSONS ACCOMMODATED	D1.13	Noted	50	See comment
DISTANCE MEASUREMENT	D1.15	Noted		

#### **Part D2 - CONSTRUCTION OF EXITS**

FIRE ISOLATED STAIRS	D2.2	FI	Materials
NON-FIRE ISOLATED STAIRS	D2.3	FI	Materials
SEPARATION OF STAIRS	D2.4	N/A	
SMOKE LOBBIES	D2.6	N/A	
INSTALLATIONS IN EXITS	D2.7	FI	Design
ENCLOSURE under stairs	D2.8	Noted	
WIDTH OF STAIR	D2.9	Complies	
RAMP GRADE max 1:8	D2.10	Noted	
FIRE ISOLATED PASSAGEWAYS	D2.11	N/A	
ROOF as OPEN SPACE	D2.12	N/A	
TREADS & RISERS	D2.13	FI	Design
LANDINGS	D2.14	FI	Design
THRESHOLDS	D2.15	FI	Design

## All State Building Surveying Pty Ltd Building Surveyors and Fire Engineers

Buildin	ng Surveyor	s and rife ci	ngineers	
CONSTRUCTION OF EXITS (cont.)				
BALUSTRADES	D2.16	FI		Design
HANDRAILS	D2.17	FI		Design
FIXED PLATFORMS	D218	N/A		2001911
DOORWAYS & DOORS	D2.19	Noted		
DOOR SWINGS	D2.20	Noted		
RE-ENTRY FROM EXITS	D2.22	N/A		
SIGNS	D2.23	FI		
PROTECTION OPENABLE WINDOWS	D2.24	N/A		
CONCESSION TIMBER STAIRS	D2.25	N/A		
		•	-1	•
Part D3 - ACCESS FOR DISABLED	D0.4	[N] - 41		
ACCESS REQUIREMENTS	D3.1	Noted		
ACCESS TO BUILDINGS	D3.2	Complies		
PARTS OF BUILDING ACCESSIBLE	D3.3	Complies		
CONCESSIONS	D3.4	Noted		
CAR PARKING	D3.5	Complies		
IDENTIFICATION OF FACILITIES	D3.6	FI	1	Design
HEARING HELP SYSTEM	D3.7	FI		Design
TACTILE INDICATORS	D3.8	FI		Design
WHEELCHAIR SEATING 9B	D3.9	N/A		
SWIMMING POOL	D3.10	N/A		
RAMPS	D3.11	N/A		
GLAZING IN ACCESSWAYS	D3.12	FI		Design
Dow E4 FIRE FIGURING FOLUDIENT				
Part E1 - FIRE FIGHTING EQUIPMENT HYDRANTS	E1.3	Internal	ТВС	TFA approx. 605m <sup>2</sup>
HOSE REELS	E1.4	Required	TBC	тға арргох. оозін
SPRINKLERS	E1.5	Required	TBC	Sac D1 2 8 Spec F1 F
PORTABLE EXTINGUISHERS	E1.6	Required	TBC	See D1.3 & Spec E1.5
PURTABLE EXTINGUISHERS	⊏1.0	Required	HDC	
			1	
Part E2 - SMOKE HAZARD MANAGEM	IENT	'	1. – -	L
Part E2 - SMOKE HAZARD MANAGEM			TBC	ISD&A
Part E2 - SMOKE HAZARD MANAGEM PROVISION FOR SMOKE HAZARDS	IENT E2.2	Required	ТВС	SD&A
PROVISION FOR SMOKE HAZARDS			ТВС	SD&A
PROVISION FOR SMOKE HAZARDS  Part E3 - LIFT INSTALLATIONS	E2.2	Required	1	
PROVISION FOR SMOKE HAZARDS  Part E3 - LIFT INSTALLATIONS  LIFT INSTALLATIONS	E2.2 E3.1	Required	ТВС	SD&A  Specification E3.1
PROVISION FOR SMOKE HAZARDS  Part E3 - LIFT INSTALLATIONS  LIFT INSTALLATIONS  STRETCHER FACILITY	E3.1 E3.2	Required Required N/A	TBC	Specification E3.1
PROVISION FOR SMOKE HAZARDS  Part E3 - LIFT INSTALLATIONS  LIFT INSTALLATIONS  STRETCHER FACILITY  FIRE USE WARNING	E3.1 E3.2 E3.3	Required Required N/A Required	1	
PROVISION FOR SMOKE HAZARDS  Part E3 - LIFT INSTALLATIONS  LIFT INSTALLATIONS  STRETCHER FACILITY  FIRE USE WARNING  EMERGENCY LIFTS	E3.1 E3.2 E3.3 E3.4	Required  Required  N/A  Required  N/A	TBC TBC	Specification E3.1 Signage
PROVISION FOR SMOKE HAZARDS  Part E3 - LIFT INSTALLATIONS  LIFT INSTALLATIONS  STRETCHER FACILITY  FIRE USE WARNING  EMERGENCY LIFTS  LANDINGS	E3.1 E3.2 E3.3 E3.4 E3.5	Required  Required  N/A  Required  N/A  Required	TBC TBC	Specification E3.1 Signage Section D
PROVISION FOR SMOKE HAZARDS  Part E3 - LIFT INSTALLATIONS  LIFT INSTALLATIONS  STRETCHER FACILITY  FIRE USE WARNING  EMERGENCY LIFTS  LANDINGS  DISABILITIES FACILITIES	E3.1 E3.2 E3.3 E3.4 E3.5 E3.6	Required N/A Required N/A Required Required Required	TBC TBC	Specification E3.1 Signage
PROVISION FOR SMOKE HAZARDS  Part E3 - LIFT INSTALLATIONS  LIFT INSTALLATIONS  STRETCHER FACILITY  FIRE USE WARNING  EMERGENCY LIFTS  LANDINGS  DISABILITIES FACILITIES  FIRE SERVICE CONTROLS	E3.1 E3.2 E3.3 E3.4 E3.5 E3.6 E3.7	Required N/A Required N/A Required Required Required N/A	TBC TBC	Specification E3.1 Signage Section D
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PROVISION FOR SMOKE HAZARDS  Part E3 - LIFT INSTALLATIONS  LIFT INSTALLATIONS  STRETCHER FACILITY FIRE USE WARNING  EMERGENCY LIFTS  LANDINGS  DISABILITIES FACILITIES FIRE SERVICE CONTROLS  RESIDENTIAL CARE FIRE SERVICE RECALL FIRE SERVICE DRIVE  Part E4 - EMERGENCY LIGHTING, EXI  EMERGENCY LIGHTING NEEDS  DISTANCE  DESIGN & OPERATION  EXIT SIGNS  DIRECTION SIGNS  CLASS 2 & 3 BUILDINGS	E3.1 E3.2 E3.3 E3.4 E3.5 E3.6 E3.7 E3.8 E3.9 E3.10 E4.2 E4.3 E4.4 E4.5 E4.6 E4.7	Required N/A Required N/A Required N/A Required N/A N/A N/A N/A N/A N/A N/A Required Noted Noted Noted Required Required Noted Required Required N/A	TBC TBC TBC TBC TBC TBC TBC	Specification E3.1  Signage  Section D  Dimensions   IS  Through building  Over Exits
PROVISION FOR SMOKE HAZARDS  Part E3 - LIFT INSTALLATIONS  LIFT INSTALLATIONS  STRETCHER FACILITY FIRE USE WARNING  EMERGENCY LIFTS  LANDINGS  DISABILITIES FACILITIES FIRE SERVICE CONTROLS  RESIDENTIAL CARE FIRE SERVICE RECALL FIRE SERVICE DRIVE  Part E4 - EMERGENCY LIGHTING, EXIEMERGENCY LIGHTING NEEDS  DISTANCE  DESIGN & OPERATION  EXIT SIGNS  DIRECTION SIGNS  CLASS 2 & 3 BUILDINGS  DESIGN & OPERATION	E2.2  E3.1  E3.2  E3.3  E3.4  E3.5  E3.6  E3.7  E3.8  E3.9  E3.10  ITS SIGNS  E4.2  E4.3  E4.4  E4.5  E4.6  E4.7  E4.4	Required  N/A Required N/A Required N/A Required N/A N/A N/A N/A N/A N/A N/A Required Noted Required Noted Required Required N/A N/A Noted	TBC TBC TBC TBC TBC TBC TBC	Specification E3.1  Signage  Section D  Dimensions   IS  Through building  Over Exits
PROVISION FOR SMOKE HAZARDS  Part E3 - LIFT INSTALLATIONS  LIFT INSTALLATIONS  STRETCHER FACILITY FIRE USE WARNING  EMERGENCY LIFTS  LANDINGS  DISABILITIES FACILITIES FIRE SERVICE CONTROLS  RESIDENTIAL CARE FIRE SERVICE RECALL FIRE SERVICE DRIVE  Part E4 - EMERGENCY LIGHTING, EXEMPTEA SERVICE DRIVE  PART E4 - EMERGENCY LIGHTING NEEDS DISTANCE DESIGN & OPERATION  EXIT SIGNS DIRECTION SIGNS  CLASS 2 & 3 BUILDINGS DESIGN & OPERATION COMMUNICATION SYSTEMS	E2.2  E3.1  E3.2  E3.3  E3.4  E3.5  E3.6  E3.7  E3.8  E3.9  E3.10  ITS SIGNS  E4.2  E4.3  E4.4  E4.5  E4.6  E4.7  E4.4	Required  N/A Required N/A Required N/A Required N/A N/A N/A N/A N/A N/A N/A Required Noted Required Noted Required Required N/A N/A Noted	TBC TBC TBC TBC TBC TBC TBC	Specification E3.1  Signage  Section D  Dimensions   IS  Through building  Over Exits
PROVISION FOR SMOKE HAZARDS  Part E3 - LIFT INSTALLATIONS  LIFT INSTALLATIONS  STRETCHER FACILITY  FIRE USE WARNING  EMERGENCY LIFTS  LANDINGS  DISABILITIES FACILITIES  FIRE SERVICE CONTROLS  RESIDENTIAL CARE  FIRE SERVICE RECALL  FIRE SERVICE DRIVE  Part E4 - EMERGENCY LIGHTING, EX  EMERGENCY LIGHTING NEEDS  DISTANCE  DESIGN & OPERATION  EXIT SIGNS  DIRECTION SIGNS  CLASS 2 & 3 BUILDINGS  DESIGN & OPERATION  COMMUNICATION SYSTEMS	E3.1 E3.2 E3.3 E3.4 E3.5 E3.6 E3.7 E3.8 E3.9 E3.10 E4.2 E4.3 E4.4 E4.5 E4.6 E4.7 E4.4 E4.9	Required  N/A Required N/A Required N/A Required N/A N/A N/A N/A N/A N/A N/A N/A Noted Required Required Noted Noted Required Noted Required N/A N/A N/A	TBC TBC TBC TBC TBC TBC TBC	Specification E3.1  Signage  Section D  Dimensions   IS  Through building  Over Exits
PROVISION FOR SMOKE HAZARDS  Part E3 - LIFT INSTALLATIONS  LIFT INSTALLATIONS  STRETCHER FACILITY FIRE USE WARNING  EMERGENCY LIFTS  LANDINGS  DISABILITIES FACILITIES FIRE SERVICE CONTROLS  RESIDENTIAL CARE FIRE SERVICE RECALL FIRE SERVICE DRIVE  Part E4 - EMERGENCY LIGHTING, EX  EMERGENCY LIGHTING NEEDS  DISTANCE  DESIGN & OPERATION  EXIT SIGNS  DIRECTION SIGNS  CLASS 2 & 3 BUILDINGS  DESIGN & OPERATION  COMMUNICATION SYSTEMS  Part F2 - HEALTH & AMENITY  NO. OF FIXTURES	E3.1 E3.2 E3.3 E3.4 E3.5 E3.6 E3.7 E3.8 E3.9 E3.10 E4.2 E4.3 E4.4 E4.5 E4.6 E4.7 E4.4 E4.9	Required  N/A Required N/A Required N/A Required N/A N/A N/A N/A N/A N/A N/A Noted Required Noted Required Noted Required Noted Required Noted Required N/A N/A N/A N/A Noted Noted N/A	TBC TBC TBC TBC TBC TBC TBC	Specification E3.1  Signage  Section D  Dimensions   IS  Through building  Over Exits

F2.5

F2.7

F2.8

FΙ

Noted

Noted

Design

TOILET CONSTRUCTION

MICROBIAL CONTROLS WASTE MANAGEMENT

# All State Building Surveying Pty Ltd Building Surveyors and Fire Engineers

## Part F3 - ROOM SIZES

SIZES OF ROOMS	F3.0	Noted	
HEIGHTS	F3.1	Complies	

## Part F4 - LIGHT & VENTILATION

PROVISION OF NATURAL LIGHT	F4.1	Noted		
EXTENT OF NATURAL LIGHT	F4.2	N/A		
ARTIFICAL LIGHTING	F4.4	Required	TBC	Through building
VENTILATION	F4.5	Required	TBC	Through building
NATURAL VENTILATION	F4.6	Noted		
WATER CLOSET POSITIONS	F4.8	Noted		
AIRLOCKS	F4.9	Noted		
CAR PARKS	F4.11	N/A		
KITCHEN ETC EXHAUSTS	F4.12	N/A		

# 39 Cabbage Tree Road, Bayview Fire Safety Measures Table

# Proposed Fire Safety Measure

No.	Element	Design	Maintenance
		Standard	Standard
01.	Exit Door	BCA Part D1	BCA Part D1
02.	Latches	BCA Part D2	BCA Part D2
03.	Path of Travel	BCA Part D1	BCA Part D1
04.	Hydrants	BCA Part E1	AS 1851
		AS 2419.1	
05.	Fire Hose Reels	BCA Part E1	AS 1851
		AS 2441	
06.	Portable Fire Extinguishers	BCA Part E1,	AS 1851
		AS 2444	
07.	Emergency Lighting	BCA Part E4,	AS 2293.2
		AS 2293.1	
08.	Exit Signs	BCA Part E4,	AS 2293.2
		AS 2293.1	
09.	Illuminated Directions Signs	BCA Part E4,	AS 2293.2
		AS 2293.1	
10.	Smoke Detection & Alarm	BCA Part E2,	AS 1670.1
		AS 1670.1	