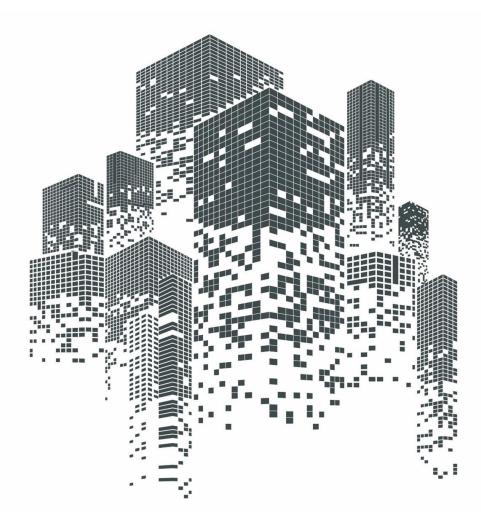
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APPENDIX G: BCA REPORT





Project	Raymond Terrace Bowling Club Upgrade + Hotel Development 2 Jacaranda Avenue, Raymond Terrace NSW 2300
Report	BCA Assessment Report (BCA 2022) For DA
Reference	230436-BCA-r3
Date	5/12/2023
Client	Raymond Terrace Bowling Club C/- Monteath & Powys Clint Forrester
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Document Control

Reference/Revision	Date		BCA Assessment Report
230436-BCA-r1 Draft DA report issued for review	08/08/2023	Prepared by	Zoe Brown Building Surveyor – Unrestricted (A1) BDC 3299
230436-BCA-r2 Issued for DA	02/11/2023	Prepared by	Zoe Brown Building Surveyor – Unrestricted (A1) BDC 3299
230436-BCA-r3 Issued for DA Minor updates to address design team comment	05/12/2023	Prepared by	Zoe Brown Building Surveyor – Unrestricted (A1) BDC 3299

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1 Introduction

1.1 Objectives

The purpose of this report is to provide an assessment against Volume One of the Building Code of Australia 2022 (BCA) addressing all relevant Deemed-to-Satisfy clauses therein.

The report will identify where the subject building achieves compliance and non-compliance with the BCA, and provide instances where a Performance Solutions may be available. Any recommended Performance Solutions are required to be prepared under separate cover.

Part 3 'Assessment Summary' of this report outlines the identified compliance matters that require further information or consideration and/or assessment as a Performance Solution (to be prepared separately).

It is presumed the assumptions, content, and limitations of this report are reviewed, noted, and understood by the reader. Credwell Consulting are to be contacted to clarify any queries or assumptions made in relation to the contents of this report and further, Credwell Consulting take no responsibility for misinterpretation of any of the content herein.

1.2 Limitations

This report does not include, nor imply, any audit, assessment, or upgrading of:

- 1. The structural adequacy or design of the building;
- 2. The capacity or design of any electrical, fire, hydraulic or mechanical services;
- 3. The inherent derived fire-resistance ratings of any proposed structural elements of the building (unless specifically referred to); and
- 4. The Disability (Access to Premises Building) Standards 2010 and the Disability Discrimination Act 1992 (Cth)

This report does not include, nor imply, any assessment of, or compliance with:

- 1. The National Construction Code Plumbing Code of Australian Volume 3;
- 2. The Disability Discrimination Act 1992 including the Disability ((Access to Premises Buildings) Standards 2010 unless specifically referred to),
- 3. The provision of disabled access to the subject development, being any assessment of the Deemed-to-Satisfy provisions of Part D3 and Clauses E3.6, F2.4 & F2.9;
- 4. Any Development Consent conditions;
- 5. The Liquor Licencing Act 2007;
- 6. The Work Health and Safety Act 2011;
- 7. The Swimming Pools Act 1992; and
- 8. Requirements of Authorities including, but not limited to, Fire and Rescue NSW, WorkCover, RMS, Council, Telecommunications Supply Authority, Electricity Supply Authority, Water Supply Authority, Gas Supply Authority and the like.
- 9. Requirements of BCA Section J.

Interpretations

A number of matters within the BCA are known to be interpretive. Where these matters are encountered, interpretations have been used that are consistent with Credwell Consulting's understanding of standard industry practice.

Dimensions and Tolerances



In some instances, the BCA specifies minimum dimensions for construction. The assessment of plans and specifications includes a review of such minimum dimensions that are relevant to the project, but Credwell Consulting does not guarantee that all relevant minimum dimensions have been assessed where they are not clearly and explicitly denoted/marked on the architectural drawings.

The relevant designer(s) and builder(s) should confirm that all minimum dimensions are achievable on site prior to works and consideration/attention should be given to construction tolerances impacted by wall set outs, applied finishes, and skirtings to corridors and bathrooms. For example, tiling bed thickness on walls and floors can adversely impact critical minimum dimensions relating to access for people with disabilities, stair and corridor widths, and balustrade heights.

1.3 Reviewed documentation

This report is based on documentation referenced in Annexure A.



2 Proposed Development

2.1 Building location

The building, the subject of this report, is located at 2 Jacaranda Avenue, and 1 Swan Street, Raymond Terrance NSW 2300, identified as Lot 23 of DP 758871 and Lot 23 of DP 1088281.

It is assumed that the 2 lots will be consolidated as part of the proposed development.

An existing two storey RSL club building with associated carparking and bowling greens are situated on the site. The building contains dining, gaming, function, and administration areas.



Figure | Satellite Image of the Site | source: sixmaps

2.2 Proposal

The proposed development consists of the redevelopment of the 2 storey bowling club and construction of a new 6 storey hotel building on the allotment.

The bowling club upgrades consist of the reconfiguration of the ground floor area, and extension and reconfiguration of the first-floor dining, function, gaming and bar areas and the enclosure of the bowling green.

A hotel building and will consist of hotel suites, rooftop pool and terrace area, function room, restaurant and boardrooms.

A new 2 storey carpark will connect the two buildings such at that are one building, however fire walls are proposed to allow the buildings to be assessed as two separate buildings for the purposes of Parts C, D, and E of the BCA. This allows the bowling club to remain of Type B construction, while the hotel is required to achieve Type A construction.

For the purposes of this report, the buildings will be reference to as:



- 1. The bowling club: consisting of the bowling club building, enclosed bowling greens, and carpark areas; and
- 2. The Hotel: consisting of the hotel building only.

A markup of the first-floor plan below shows which areas are proposed as part of each building for the purposes of the BCA assessment.

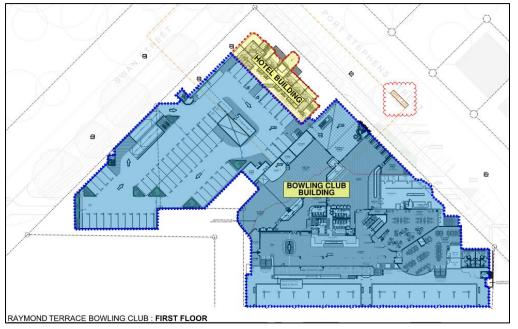


Figure | First Floor Plan Markup of building split | Source: EJE architectural plans

The construction staging strategy will be reviewed in detail as part of the CC phase to ensure suitable measures for evacuation are maintained throughout each stage.

Phase 1: Club, parking and croquet lawn

- Phase 2: Enclosure of the bowling greens to the south
- Phase 3: Carpark and hotel building.

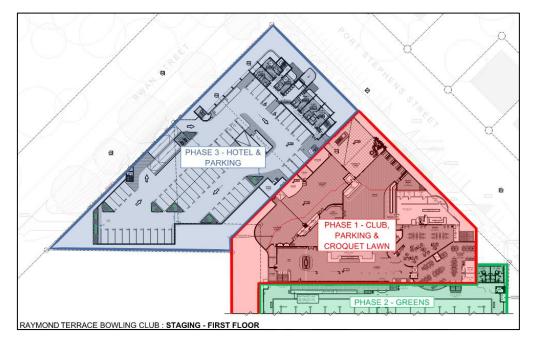


Figure | First Floor Plan Markup of building split | Source: EJE architectural plans



2.3 Building description

For the purposes of the BCA, the building is described as follows:

Building Classification	3 Hotel 7a Carpark 7b Storage 9b Assembly Building (club)	Levels Contained	Hotel: 6 Bowling Club: 2
Rise in Storeys	Hotel: 6 Bowling Club: 2	Effective Building Height (m)	Hotel: 15.5 m (RL 18.78 – RL 3.28) Bowling Club: 3.1 m (RL 6.38 – RL 3.28)
Type of Construction	Mixed: Type A: Hotel Type B: Bowling club and carpark.	Climate Zone	5 Port Stephens Council

2.4 Classification

		Bowling club Building		
Location	Class	Use	Floor Area	Occupants
Ground Floor	7a, 9b	Carpark & Assembly Building	9,651 m ²	12 Staff 758 Patrons
	6	Shop (Bottleshop) (<10% of the storey area)	40	2 staff 12 patrons
	7a	Carpark	4,316 m ²	144 (ancillary)
	7b	Storage (<10% of the storey area)	754 m ²	26 (ancillary)
	9b	Assembly Building (Bowling Club) Function Room Office	138 m² 94 m²	138 patrons 10 (staff)
	9b	Assembly Building (Bowling Green)	3,907 m	*620 patrons
First Floor	7a, 9b	Carpark & Assembly Building	5,498 m ²	995 patrons 36 Staff
	7a	Carpark	2,525 m ²	85 (ancillary)
	7b	Storage (<10% of the storey area)	120 m ²	4 (ancillary)
	9b	Assembly Building (Bowling Club)	2,931 m ²	995 patrons 36 Staff
				441 food and bev 95 Gaming 459 Function
Total	7a, 9b	Carpark & Assembly Building	15,149 m²	48 staff
				1,753 patrons



	Hotel Building			
Location	Class	Use	Floor Area	Occupants
Ground Floor	3 & 7b	Hotel and Storage	172 m ²	4 Staff
	3	Hotel reception	40 m ²	4
	7b	Bin store (> 10% of the storey area)	36 m ²	Ancillary
First Floor	3	Hotel	368 m²	12
Second Floor	3	Hotel (incl pool and gym)	1,132 m ²	91
Third Floor	3	Hotel	826 m ²	34
Fourth Floor	3	Hotel	826 m ²	34
Fifth Floor	3, 9b	Hotel Assembly Building (Function area and Restaurant)	704 m ²	*180 patrons 10 office 10 staff 10 boardroom/office 180 function +food and bev 10 restaurant staff
Total	3, 7b, 9b	Hotel, Storage & Assembly Building	-	14 staff 10 boardroom 180 food and bev patrons

Note:

In accordance with Clause A6G1 [2019:A6.0], Exemption 1 of the BCA, for the purposes of determining a building classification, where a part of a building has been designed, constructed or adapted for a different purpose and is less than 10% of the floor area of the storey it is situated on, the classification of the other part of the storey may apply to the whole storey.

Storage areas (class 7b) includes general storage areas, cleaners' rooms, garbage rooms and the like.

Occupant numbers for the Bowling Club dining and gaming areas have been calculated based on the number of seats shown on the fit-out plans.

Occupant numbers for all other areas have been calculated in accordance with Clause D2D18 [2019:D1.13] of the BCA.

The floor areas identified within the table are in accordance with the BCA definition which may vary from the GFA as determined in accordance with NSW planning legislation.

The NSW Environmental Planning and Assessment Regulation 2021 defines an *Entertainment Venue* as: *a building used as a cinema, theatre or concert hall, or an indoor sports stadium.* The development has not been assessed as an "entertainment venue".

The occupant numbers on the fifth level to the Hotel is restricted to 200 based on the egress width provided.



The occupant numbers to the bowling greens is restricted to 620 maximum based on the egress width provided.

2.5 Fire Compartmentation

Bowling Club Building:

The entire bowling club building, including the bowling greens, has been assessed as one fire compartment as the ground and first floor of the bowling club which are connected via non-fire isolated stairs. Furthermore, the bowling greens are enclosed and directly connected to the bowling club without proposed fire separation.

<u>Fire Compartment Area:</u> Ground Floor Bowling Club Area: 1,428 m² Greens floor area: 3,907 m² First Floor Bowling Club Area: 2,973 m² **Total: 8,308 m²**

Volume is to be confirmed by the architect.

Note: The carparking areas are not included in the Fire Compartment area in accordance with BCA Clause C3D2 as the carpark has been considered to be an open-deck carpark.

Clause C3D3 of the BCA restricts the fire compartment for a Class 9b Type B construction to have a maximum floor area of 5,500 m² and maximum volume of 33,000 m³. The floor area of the compartment (8,308 m²) is over the maximum area permitted (5,500 m²).

The fire compartment area is 2,808 m² over the maximum area permitted in accordance with Clause C4D3 and design amendments may be required to divide the bowling club into 2x fire compartments in order to reduce the size. This item is subject to further review and consultation with a suitably qualified fire engineer to determine whether a performance solution can be supported.

Hotel Building:

Each level of the building has been considered as a separate fire compartment.

- Fire Compartment No.1 Ground Floor of the Hotel Area: 54 m² Volume: To be confirmed by the architect.
- Fire Compartment No.2: First Floor of the Hotel Area: 334 m² Volume: To be confirmed by the architect.
- <u>Fire Compartment No.3:</u> Second Floor of the Hotel Area: 1,132 m² Volume: To be confirmed by the architect.



- <u>Fire Compartment No.4:</u> Third Floor of the Hotel Area: 826 m² Volume: To be confirmed by the architect.
- <u>Fire Compartment No.5:</u> Fourth Floor of the Hotel Area: 826 m² Volume: To be confirmed by the architect.
- Fire Compartment No.6: Fifth Floor of the Hotel / Function area Area: 704 m² Volume: To be confirmed by the architect.

Details of the proposed fire wall separating the two buildings must be reviewed in consultation with a suitably qualified fire engineer at the CC phase of the development.



3 Assessment Summary

3.1 Assessment

The reviewed documentation referenced in Annexure A of this report has been assessed against the Deemed-to-Satisfy (DtS) provisions of the BCA. This assessment has identified the following areas where compliance with the BCA will require further consideration.

Annexure B of this report provides a detailed assessment of the proposal against each of the relevant DtS provisions of the BCA.

3.2 Possible Performance Solutions (Fire Safety)

The following items relate to areas where a Performance Solution may be available to justify a deviation from the DtS requirements of the BCA. This report does not form a Performance Solution.

Where a Fire Engineered Performance Solution is proposed, the solution is to be prepared by a *Certifier – Fire Safety (C10)* in consultation with all stakeholders.

Referral to Fire Rescue NSW under Clause 21 of the Environmental planning and Assessment (Development Certification and Fire Safety) Regulation 2021 is required where the Fire Engineering Report contains any performance solution to address Performance Requirement C1P2 (*CP2*), C1P9 (*CP9*), E1P3 (*EP1.3*), E1P4 (*EP1.4*), E1P6 (*EP1.6*), E2P2 (*EP2.2*) or E3P2 (*EP3.2*). This process is to be coordinated by the certifier as part of the Construction Certificate assessment process.

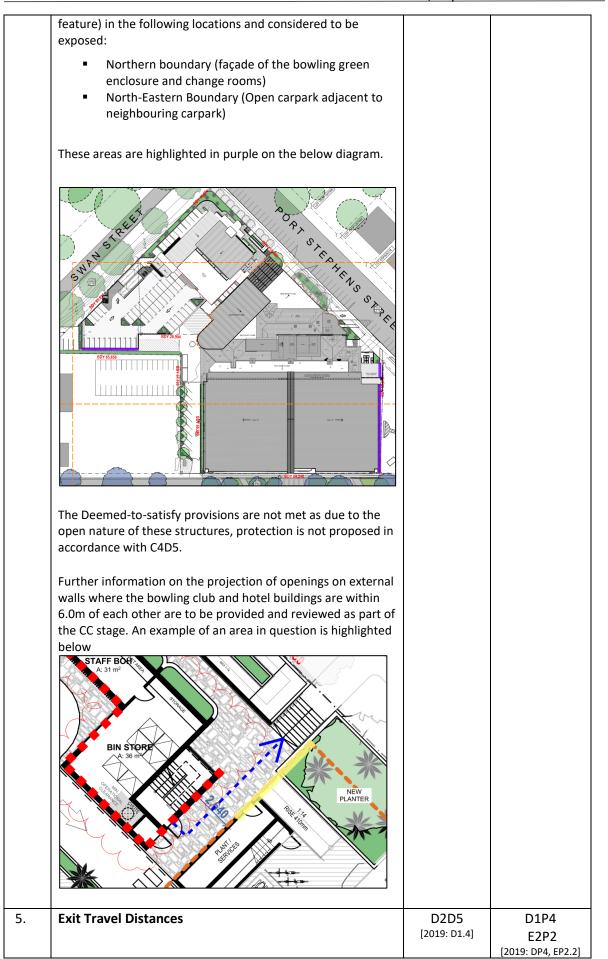
Please note that the below does not indicate the final list of performance solutions. Input from services consultants and further review of construction documentation is required to finalise this list as part of the CC stage.

Item	Possible Performance Solution	DtS	Performance
		Provision	Requirements
1.	Garbage and Laundry Chutes Hotel	Spec 5 S5C8	C1P2 [2019: CP2]
	Clause S5C8 of Spec 5 specifies that shafts required to have an FRL must be enclosed at the top and bottom by construction having an FRL as applicable to non-loadbearing shaft walls. The FRL required for this construction is/120/120.	[2019: C1.1 Spec C1.1]	
	The building contains garbage and laundry chutes which run vertically through the building and discharge into the waste room and back of house area on ground level. The bottom of the garbage and laundry chutes discharges at the ceiling level of the waste room and back of house area, and due to this arrangement, the shaft is not enclosed at the bottom with an FRL of/120/120.		
2.	Ancillary Elements – Planter Boxes	C2D14 [2019: C1.14]	C1P1 C1P2
	Clause C2D14 of the BCA specifies that an ancillary element that is fixed, installed or attached to an external wall must be non-combustible, except where permitted by the clause.		[2019: CP1 CP2]
	The terms <i>fixed, installed and attached</i> are not defined within the BCA, however the intent of the clause is to prevent fire spread to the external façade of a building. These terms are broad and follow the intent of the clause, which is to capture any element that is within close proximity to the external		



	wall. The clause is open for interpretation, and such a conservative approach is taken by Credwell.		
	Balconies/terraces on this project are proposed to be concrete slabs which extend from the inside of the building, through the external walls to form the balconies/terraces. Due to the direct physical connection and close proximity to the external walls, the balconies/terraces are deemed to be ancillary elements, attached to the external wall and therefore are subject to the provisions of C2D14of the BCA.		
	The Deemed-to-satisfy provisions are not met as the following combustible elements have been identified to be installed to the balconies/terraces and therefore subject to compliance with C2D14.		
	Planter boxes		
	Plants themselves cannot be tested to determine their fire hazard properties, however irrigation systems and the construction of the planter boxes themselves also need to be review as part of the Construction Documentation review.		
3.	Oversized Fire Compartment Bowling Club	C3D3 [2019: C2.2]	C1P1
	Clause C4D3 of the BCA limits the area and volume of fire compartments based on the Type of Construction and building Classification.		C1P2 [2019: CP1, CP2]
	As a Type B building the maximum floor area of a fire compartment in the bowling club permitted is 5,500 m ² and maximum volume of 33,000 m ³ .		
	The Deemed-to-satisfy provisions are not met as the proposed fire compartment of the bowling club is over the limitations of this clause:		
	Area: 8,308 m ² in lieu of 5,500 m ² maximum. Volume: <i>To be confirmed</i>		
	The fire compartment area is 2,808 m ² over the maximum area permitted in accordance with Clause C4D3 and design amendments may be required to divide the bowling club into 2x fire compartments in order to reduce the size. This item is subject to further review and consultation with a suitably qualified fire engineer to determine whether a performance solution can be supported.		
4.	Protection of openings in external walls	C4D3 C4D5	C1P2 [2019: CP2]
	Clause C4D3 of the BCA specifies that openings within an external wall that is required to have an FRL, be protected in accordance with BCA Clause C4D5 if the external wall located within 3m of a side or rear boundary, or within 6.0m of another building on the allotment.	[2019: C3.2 & C3.4]	
	The building is within 3.0m of the side boundary (fire source		







	 Clause D2D5 of the BCA specifies that no point on a floor from the class 7 and 9 areas of the building must be more than: 20m to a single exit; 20m to a point of choice (where travel to 2 different required exits is available); 40m to an exit (where 2 exits are available) The Deemed-to-Satisfy provisions are not met as the following distances are achieved as a worst case: Bowling Club Ground Floor: 48 m to an exit from the under croft area in lieu of 40 m max. Bowling Club Bowling Greens: 51 m to an exit in lieu of 40 m max. 		
6.	Distance Between Alternative Exits Clause D2D6 of the BCA specifies that alternative exits must not be greater than 60m apart, and not closer than 9m. The Deemed-to-Satisfy provisions are not met as the following distances are achieved:	D2D6 [2019: D1.5]	D1P4 E2P2 [2019: DP4, EP2.2]
	 Ground Floor Bowling Club: The alternative exits are 65 m apart in lieu of 60 m maximum. First floor Bowling Club: The alternative exits are 72 m apart in lieu of 60 m maximum. 		
7.	Travel via Fire Isolated exits – Discharge within 6.0m of unprotected openings Clause D2D12(3) of the BCA specifies that from the point of discharge from a fire-isolated exit, the path of travel must not pass within 6 m of the external wall of the subject building unless it achieves an FRL of not less than 60/60/60 and all openings are protected internally in accordance with Clause C4D5 The Deemed-to-Satisfy provisions are not met as the 2x fire isolated stairs that discharge from the hotel towards Port Street travel within 6.0m of the external façade that incorporates openings to the carpark as highlighted in yellow on the below diagram.	D2D12(3) C4D5 [2019: D1.7, C3.4]	D1P5 E2P2 [2019: DP4, EP2.2]



	PREVATE TRADE OF THE VALUE TRADE		
8.	Provision for Special Hazards – Electric Vehicle	E1D17	-
	Charging Stations	[2019: E1.10]	
	EV charging stations are proposed within the ground floor carpark and are deemed a special hazard to be assessed on performance basis.	E2D21 [2019: E2.3]	
	Discussion is to be had with the Fire Engineer and Certifier at the CC stage to confirm whether this is captured a performance solution, or assessed under the DtS provisions with a performance based assessed which is to be included in the FER.		

3.3 Possible Performance Solutions (Other)

The following items relate to areas where a non-fire engineered Performance Solution may be available to justify a deviation from the DtS requirements of the BCA. This report does not form a Performance Solution.

Where a Performance Solution is proposed, the solution is to be prepared by a suitably qualified person in consultation with all stakeholders.

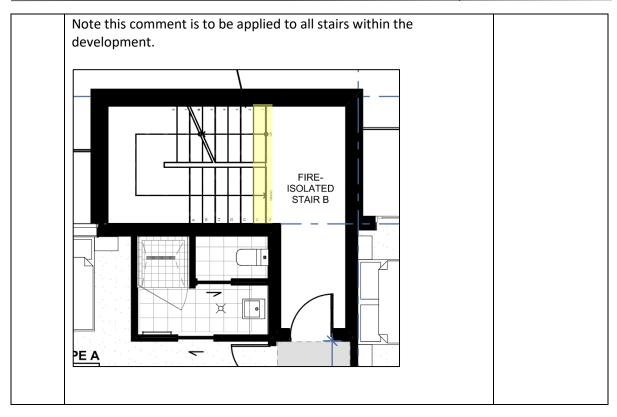
Item	Possible Performance Solution	DtS Provision	Performance Requirements
1.	Weather Proofing	F3D5	F3P1
	 The external wall cladding must be: Masonry to AS 3700; or Autoclaved aerated concrete to AS 5146.3; or Metal wall cladding to AS 1562.1. 		
	Where the cladding does not meet this provision, it must be assessed on a performance basis.		

3.4 Design amendments required

The following items have been identified as departures from the BCA deemed-to-satisfy provisions, and Credwell recommend these items to be resolved with minor design amendments prior to the application for construction certificate:

-		
Item	Amendments required	DtS Provision
1.	Fire Control Centre	E1D15
	Fire Control Centre required in accordance with Spec 19. The location is to be shown on the plans to enable further assessment as part of the CC phase	
2.	Egress width External Stair to the Bowling Club	D2D8
	1.0 m clear egress width must be achieved for all paths of travel.	
	The external stair to the north west of the bowling club is currently 1.0m wide without handrails documented. These stairs must be widened to allow for handrails to be installed to each side.	
	A 28 m ² st st A 28 m ² A 2	
3.	Fire Isolated Stairs Hotel – Offset treads	D4D4
	Ensure that the fire-isolated stairways has setbacks at the bottom of a stair flight as per Figure 26 of AS1428.1-2009 to ensure that the handrails maintain a consistent height.	
	meet the above requirement and design amendments are required.	





3.5 Further information required

For the purposes of this report, general arrangement floor plans, elevations and sections have been reviewed to determine whether the building is capable of complying with the BCA.

Construction Documentation is to be provided and reviewed by Credwell prior to the issuance of the BCA Report for the purposes of the Construction Certificate application. A detailed list of information required for review will be provided by Credwell upon engagement for the Construction Certificate stage assessment.

The below information is required for the purposes of finalising this assessment:

- 1. Staff Numbers are to be provided for the bowling club and hotel to enable us to confirm the assessment of sanitary facilities and provision for egress.
- 2. Confirmation as to whether the carpark is proposed to be open deck. If so, details of the open area to the carpark walls are to be provided to confirm this meets the DtS provisions of the BCA.
- Total volume of the bowling club is to be confirmed by the architect. The volume calculation is to include all ground and first floor areas of the club, and the enclosed bowling greens. This calculation is not to include the carpark areas.
- 4. Confirmation as to what type of Sprinkler System is proposed to the hotel building is required to enable further assessment (AS 2118.1 vs FPAA101D vs FPAA101H).

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4 Statement of Compliance

The architectural design documentation prepared for submission for the Development Application (as referred to in Annexure A of this report) have been assessed against the relevant provisions of the BCA. This assessment was limited to an assessment of the BCA in order to identify any items that may necessitate a modified development consent or additional key items that must be included in the design. It is considered that the documentation complies or is capable of complying with the BCA as outlined in Part 6 subject to resolution of items identified in this Report.

As identified in the Clause by Clause assessment, sufficient construction documentation is required in order to undertake a full assessment prior to the application for Construction Certificate.



5 Legislative Requirements

The following legislation outline some of the pertinent requirements which must be reviewed and satisfied prior to the issue of a Development Application.

5.1 Clause 62 of the Environmental Planning & Assessment Regulation 2021

Clause 62 of the Environmental Planning and Assessment Regulations 2021 applies to existing buildings subject to a Development Application for the change of building use, where the proposal does not seek the rebuilding or alteration of the building.

This clause does not apply to the development as the proposal involves building alteration works.

5.2 Clause 64 of the Environmental Planning & Assessment Regulation 2021

Clause 64 of the Environmental Planning and Assessment Regulations 2021 applies to existing buildings subject to a Development Application for the rebuilding or alteration of the building where:

Clause 64 (1)

(a) the proposed building work and previous building work together represent more than half of the total volume of the building, or

(b) the measures contained in the building are inadequate—

(i) to protect persons using the building, if there is a fire, or

(ii) to facilitate the safe egress of persons using the building from the building, if there is a fire, or

(iii) to restrict the spread of fire from the building to other buildings nearby.

Where this clause applies to the development:

(2) The consent authority must consider whether it is appropriate to require the existing building to be brought into total or partial conformity with the Building Code of Australia.

This clause applies to the development as the total building work represents more than half of the building volume as per Clause 64(1)(a)

The local Consent Authority (Council) have at the Development Approval stage discretion on the level of fire safety upgrading deemed necessary, being either a total upgrade to satisfy the provisions of the BCA or partial upgrading depending on the design, construction extent of alterations and additions and circumstances of the particular building.

It should be noted that under Clauses 64 above, the primary concern with existing buildings is that of protecting persons using the building and to facilitate their egress from the building in the event of a fire or to restrict the spread of fire from the building to other buildings nearby.

Element Credwell Assessment

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(1)(b)(i) to protect persons using the building, if there is a fire	The fire safety systems are proposed to be upgraded as part of the development.
(1)(b)(ii) to facilitate the safe egress of persons using the building from the building, if there is a fire	An egress assessment has been undertaken for the development. Any shortfalls are proposed to be addressed with performance solutions as part of the Construction Certificate phase.
(1)(b)(iii) to restrict the spread of fire from the building to other buildings nearby	The fire safety systems are proposed to be upgraded as part of the development.
	Furthermore, any existing unprotected openings are to be addressed such that the BCA performance requirements are met.

As a part of the new works we note that it is expected that the fire services, such as fire hydrant coverage, smoke detection and alarm systems, emergency lighting and exit signage systems will be upgraded to meet current standards.

Note is made that the existing shade structures over the bowling greens to the east of the site do not currently contain any fire safety measures. All fire safety measures as required to the building are to be extended to cover the new enclosed bowling greens area. This includes but is not limited to emergency lighting and exit signs, smoke detection and alarm systems, hydrant coverage, hose reel coverage, and smoke hazard management requirements.



6 Clause by Clause Assessment

An assessment of the proposal has been undertaken against each clause of the BCA and the following abbreviations have been used.

PS	A Performance Solution is proposed to achieve compliance with this Clause.
CRA	"Compliance Readily Achievable" – it is considered that whilst there is insufficient information currently provided to determine strict compliance with the DtS provisions of the BCA the proposed design is capable of comply subject to noting the requirements of the Clause. Additional information or documentation is necessary to confirm compliance. This may be in the form of additional drawing, a specification or design certification. See Appendix D for a proposed specification
Complies	The proposal shows compliance with the Deemed-to-Satisfy Clause.
DNC	The design does not comply with the Deemed-to-Satisfy Clause and design amendments are required
FI	Further information is required for assessment of the proposal relative to the DtS Clause
N/A	The DtS Clause is not applicable at this stage to this design.
Noted	The DtS Clause provides information not requiring specific assessment of the proposed design.
To be assessed at CC stage	An assessment against this provision is not included in a DA stage report due to the level of documentation provided. Pending further engagement, this will be assessed upon receipt of Construction Documentation.



SECTION B - STRUCTURE						
Clause [2019] Description Comments Assessment						
Part B1 – Structural Provisions						
An assessment against Section B has not been undertaken as part of this report and a suitably qualified Structural						
	Engineer is to be engaged to confirm compliance with this part (where applicable).					

ECTION				
Clause	[2019]	Description	Comments	Assessment
			al statements, performance requirements and verification meth	nods relevant to
		istance and stabilit	y	
C2D1	C1.0	DtS Provisions	Information only.	Noted
C2D2	C1.1	Type of construction required	Bowling Club: The building is to be of Type B Construction. Hotel: The building is to be of Type A Construction.	Noted
C2D3	C1.2	Calculation of rise in storeys	Bowling Club: The rise in storey of the building is 2. Hotel: The rise in storey of the building is 6. The rise in storey is the sum of storeys at any part of the external wall of the building and any storey within the roof space.	Noted
C2D4	C1.3	Buildings of multiple classifications	Information only.	Noted
C2D5	C1.4	Mixed types of construction	The bowling club and hotel buildings are proposed to be separated with a fire wall, subject to performance solutions. Mixed types of construction is proposed in accordance with this provision.	Noted
C2D6	C1.5	Two storey Class 2, 3 and 9c buildings	The development is not a two storey class 2, 3 or 9c building and therefore this clause does not apply.	N/A
C2D7	C1.6	Class 4 parts of buildings	The development does not contain a class 4 part and therefore this clause does not apply.	N/A
C2D8	C1.7	Open spectator stands and indoor sports stadiums	The development does not contain an open spectator stands or indoor sports stadiums and therefore this clause does not apply.	N/A
C2D9	C1.8	Lightweight construction	Lightweight construction must comply with Specification 6.	To be assessed at CC stage
C2D10	C1.9	Non-combustible building elements	Elements of a Building of Type A & B Construction are required to be non-combustible as listed within this Clause. This Clause also provides a list of materials permitted to be used wherever non-combustible materials are required. The materials and finishes indicated on the DA plans are capable of complying with this provision. Details of materials, finishes, linings and wall types are to be provided to enable assessment, including AS 1530 test reports for each product must be provided as part of the CC stage.	CRA
C2D11	C1.10	Fire hazard properties	Fire hazard properties of all materials to comply with this Clause and Specification 7.	To be assessed at CC stage



Clause	[2019]	Description	Comments	Assessment
		_	Details of proposed floor, wall and ceiling linings, air-	
			handling ductwork, sarking and insulation type materials,	
			including AS 1530.3 test reports are to be provided to	
			enable a full assessment.	
C2D12	C1.11	Performance of	1-2 storey buildings with external walls constructed with	To be assessed
		external walls in	tilt-up panels or the like must comply with specification 8	at CC stage
		fire		at CC stage
C2D13	C1.13	Fire-protected	Fire-protected timber may be used wherever an element is	To be assessed
		timber:	required to be non-combustible if in accordance with this	at CC stage
		Concession	provision.	at CC stage
C2D14	C1.14	Ancillary	Ancillary elements other than those listed in this Clause are	
		elements	not to be fixed, installed or attached to internal parts or	To be assessed
			external face of an external wall that is required to be non-	
			combustible.	at CC stage
			Details of materials are to be provided to enable	
			assessment, including AS 1530 test reports for each	
			product must be provided as part of the CC stage.	
				PS
			The planter boxes within the development are subject to a	-5
			performance solution as outlined in part 3.2 of this report.	
C2D15	-	Fixing of bonded	Bonded laminated cladding on a Building of Type A	To be assessed
		laminated	Construction must be in accordance with this provision.	
		cladding panels		at CC stage
Part C3 ·	– Compai	tmentation and se	paration	
C3D1	C2.0	DtS Provisions	Information only.	Noted
C3D2	C2.1	Application of	C3D3, C3D4, C3D5 do not apply to a carpark provided with	
		Part	an AS 2118 sprinkler system complying with Specification	Noted
			17, an open deck carpark, or an open spectator stand.	
C3D3	C2.2	General floor	The development is within the area and volume limitations	
		area and volume	of this clause except where outlined in part 3.2 of this	PS
		limitations	report.	
C3D4	C2.3	Large isolated	The development does not exceed the area and volume	
		building	limitations of clause C3D3 and therefore this clause does	N/A
		0	not apply.	,
C3D5	C2.4	Requirements for	The development does not exceed the area and volume	
	-	open spaces and	limitations of clause C3D3 and therefore this clause does	N/A
		vehicular access	not apply.	,
C3D6	C2.5	Class 9 buildings	The development does not contain a class 9a or 9c part, or	
			an early childhood centre and therefore this clause does	N/A
			not apply.	,
C3D7	C2.6	Vertical	Hotel building:	
	0210	separation of	Confirmation on the type of sprinkler system proposed is	
		openings in	to be provided.	
		external walls		
			Where the building is proposed to be provided with an AS	
			2118.1 sprinkler system spandrels or horizontal	
			construction are not required in accordance with this	
			provision.	
				FI
			The building is currently not capable of complying the	
			spandrel and horizontal construction requirements in	
			accordance with this clause and design amendments are	
			required where an AS 2118.1 sprinkler system is not	
		1	proposed.	
			I MANAGE MALE	
			Bowling Club: the bowling club is of Type B Construction	
C3D8	C2.7	Separation by fire		To be assessed



Clause	[2019]	Description	Comments	Assessment
C3D9	C2.8	Separation of classifications in the same storey	Each storey must be constructed to achieve the FRLs applicable to a higher class, or the different classifications must be separated from one another by fire walls.	To be assessed at CC stage
			Where separation is required, FRL plans are to be provided as part of the Construction Documentation to confirm compliance with this provision.	
C3D10	C2.9	Separation of classifications in different storeys	Each storey must be separated from the storey below by construction having the FRL applicable to a floor for the classification in the lower storey. FRL plans are to be provided as part of the Construction Documentation to confirm compliance with this provision.	To be assessed at CC stage
C3D11	C2.10	Separation of lift	FRL plans are to be provided as part of the Construction	To be assessed
C3D12	C2.11	shafts Stairways and lifts in one shaft	Documentation to confirm compliance with this provision. The fire-isolated stairway and the lift are in separate shafts.	at CC stage CRA
C3D13	C2.12	Separation of equipment	Where separation is required, FRL plans are to be provided as part of the Construction Documentation to confirm compliance with this provision.	To be assessed at CC stage
C3D14	C2.13	Electricity supply system	Where separation is required, FRL plans are to be provided as part of the Construction Documentation to confirm compliance with this provision.	To be assessed at CC stage
C3D15	C2.14	Public corridors in a Class 2 and 3 buildings	The hotel corridors on levels 2, 3 and 4 are greater than 40m in length and are to be divided in half with smoke proof construction complying with S11C2. Details are to be provided as part of the Construction Documentation.	To be assessed at CC stage
Part C4 -	Protectio	n of openings		
C4D1	C3.0	DtS Provisions	Information only.	Noted
C4D2	C3.1	Application of Part	Information only.	Noted
C4D3	C3.2	Protection of openings in external walls	 Openings within external walls that are required to have an FRL and are within the limitations of this provision must be protected in accordance with C4D5. The building is within 3.0m of the side boundary (fire source feature) in the following locations and considered to be exposed: Northern boundary (bowling green, openings in the locker rooms) North-Eastern Boundary (Open carpark adjacent to neighbouring carpark) Due to the open nature of these structures, a performance solution is proposed in lieu of providing protection in 	PS
C4D4	C3.3	Separation of external walls and associated openings in different fire compartments	accordance with C4D5. The hotel and club have been assessed as separate fire compartments. The separation between them is approximately 3.0 m and requires any openings to be protected in accordance with C4D5. FRL plans and proposed protection of openings are to be provided as part of the Construction Documentation to	FI



Clause	[2019]	Description	Comments	Assessment
C4D5	C3.4	Acceptable methods of protection	Where protection is required, doorways, windows and other openings must be protected in accordance with provision	To be assessed at CC stage
C4D6	C3.5	Doorways in fire walls	If fire walls are utilised, any doorways through them must be protected in accordance with the requirements of this Clause.	To be assessed at CC stage
C4D7	C3.6	Sliding fire doors	The development does not incorporate any sliding fire doors and therefore this clause does not apply.	N/A
C4D8	C3.7	Protection of doorways in horizontal exits	The development does not incorporate any horizontal exits and therefore this clause does not apply.	N/A
C4D9	C3.8	Openings in fire- isolated exits	The doorways to fire-isolated exits are to be self-closing - /60/30 fire door sets.	To be assessed at CC stage
C4D10	C3.9	Service penetrations in fire-isolated exits	Fire-isolated exits may not be penetrated by any service other than electrical wiring for lighting and intercom systems, water supply for fire services and other fire related services.	To be assessed at CC stage
C4D11	C3.10	Openings in fire- isolated lift shafts	Lift doors are to achieve an FRL of not less than -/60- and be in accordance with this Clause. Lift indicator panes are also to comply with this Clause.	To be assessed at CC stage
C4D12	C3.11	Bounding construction: Class 2 and 3 buildings and Class 4 parts	The doorways to the units, and rooms off the public corridors, are to be self-closing -/60/30 fire door sets.	To be assessed at CC stage
C4D12	C3.12	Openings in floors and ceilings for services	All service shafts are to have FRLs as set by Tables S5C11a- S5C11g of Specification 5	To be assessed at CC stage
C4D14	C3.13	Openings in shafts	Access openings in fire rated service shafts are to be through an access panel, or self-closing fire door, having an FRL of not less than -/60/30.	To be assessed at CC stage
C4D15	C3.15	Openings for service installations	Service penetrations through fire rated building elements are to be sealed in accordance with a tested system and manufacturer specifications in accordance with this Clause.	To be assessed at CC stage
C4D16	C3.16	Construction joints	Construction joints in fire rated building elements are to be appropriately treated to maintain the integrity and insulation of the element in which they are located.	To be assessed at CC stage
C4D17	C3.17	Columns protected with lightweight construction to achieve an FRL	Any columns protected with lightweight fire rated materials to achieve a required FRL are to comply with this Clause.	To be assessed at CC stage
Specifica	tion 5 – Fii		ion [2019: Spec C1.1]	
S5C1	1	Scope	This Specification contains the requirements for fire resisting construction of building elements.	Noted
	2	General Requirements	-	-
S5C2	2.1	Exposure to FSF	The building is exposed to FSF to the north and north east from neighbouring properties.	CRA
S5C3	2.2	Fire protection for support of another part	Where a part of a building required to have a FRL depends on direct vertical or lateral support from another part to maintain its FRL. That supporting part must have a FRL not less than that required by other provisions as set out in this Clause.	To be assessed at CC stage



Clause	[2019]	Description	Comments	Assessment
S5C4	2.3	Lintels	A lintel must have the FRL required for the part of the building in which it is situated unless it does not contribute to the support of a fire door, fire window or fire shutter and it otherwise complies with this Clause.	To be assessed at CC stage
S5C5	2.4	Method of attachment reduce the fire- resistance of building element	The fire-resistance of a building element is not to be impacted by the method of attaching or installing a finish, lining, ancillary element or a service installation in accordance with this Clause	To be assessed at CC stage
S5C6	2.5	General concessions	Information only	To be assessed at CC stage
S5C7	2.6	Mezzanine floors: Concession	The building does not contain a mezzanine and therefore this clause does not apply.	N/A
S5C8	2.7	Enclosure of Shafts	Shafts required to have an FRL must be enclosed at the top and bottom by construction having an FRL not less than that required for the walls of a non-loadbearing shaft in the same building.	To be assessed at CC stage
S5C9	2.8	Carparks in Class 2 and 3 buildings	The development does not meet the requirements for this concession and therefore it does not apply.	N/A
S5C10	2.9	Residential aged care building: Concession	The building does not contain a residential aged care building and therefore this clause does not apply.	N/A
	3	Type A Construction	1	
S5C11	3.1	Fire-resistance of building elements	The building elements are to have FRLs as determined by this Clause. See annexure C of the Report.	To be assessed at CC stage
S5C12	3.2	Concessions for floors	A floor need not have an FRL in accordance with the concessions given in this clause.	To be assessed at CC stage
S5C13	3.3	Floor loading of Class 5 and 9b buildings: Concession	If a floor of a Class 5 or 9b building is designed for a live load not exceeding 3kPa then reductions in FRLs are available.	To be assessed at CC stage
S5C14	3.4	Roof superimposed on concrete slab: Concession	A roof superimposed on a concrete slab need not have an FRL of it complies with this Clause.	To be assessed at CC stage
S5C15	3.5	Roof: Concession	A roof need not have an FRL if its covering is non- combustible, and the building meets the requirements of this Clause.	To be assessed at CC stage
S5C16	3.6	Rooflights	The building does not contain any roof lights and therefore this clause does not apply.	N/A
S5C17	3.7	Internal columns and walls: Concession	This concession may be applied where applicable	To be assessed at CC stage
S5C18	3.8	Open spectator stands and indoor sports stadiums: Concession	This concession may be applied where applicable	To be assessed at CC stage
S5C19	3.9	Carparks	This concession may be applied where applicable	To be assessed at CC stage
S5C20	3.10	Class 2 and 3 buildings: Concession	This concession may be applied where applicable	To be assessed at CC stage
			tweight construction [2019: Spec C1.8]	
Pendi	ng further	engagement, where a	is not included in a DA stage report due to the level of docume applicable, this will be assessed upon receipt of Construction D	
Specifica	tion 7 – Fir	e hazard properties	[2019: Spec C1.10]	



Clause	[2019]	Description	Comments	Assessment		
An asses	An assessment against this specification is not included in a DA stage report due to the level of documentation provided.					
	Pendin	g further engagemen	t, this will be assessed upon receipt of Construction Documenta	ation.		
Specifica	tion 8 – Pe	erformance of externation	al walls in fire [2019: Spec C1.11]			
An asses	sment aga	inst this specification	is not included in a DA stage report due to the level of docume	ntation provided.		
Pendi	ng further	engagement, where a	applicable, this will be assessed upon receipt of Construction D	ocumentation.		
Specifica	tion 9 – Ca	vity barriers for fire-	protected timber [2019: Spec C1.13]			
An asses	sment aga	inst this specification	is not included in a DA stage report due to the level of docume	ntation provided.		
Pendi	ng further	engagement, where a	applicable, this will be assessed upon receipt of Construction D	ocumentation.		
Specifica	tion 10 – F	ire-protected timber	[2019: Spec C1.13a]			
An asses	sment aga	inst this specification	is not included in a DA stage report due to the level of docume	ntation provided.		
Pendi	ng further	engagement, where a	applicable, this will be assessed upon receipt of Construction D	ocumentation.		
Specifica	tion 11 – S	moke-proof walls in	health-care and residential care buildings [2019: Spec C2.5]			
		N/A This	specification does not apply to the development.			
Specifica	tion 12 – F	ire doors, smoke doo	ors, fire windows and shutters [2019: Spec C3.4]			
An asses	sment aga	inst this specification	is not included in a DA stage report due to the level of docume	ntation provided.		
Pendi	ng further	engagement, where a	applicable, this will be assessed upon receipt of Construction D	ocumentation.		
Specifica	tion 13 – F	ire doors, smoke doo	ors, fire windows and shutters [2019: Spec C3.15]			
An asses	sment aga	inst this specification	is not included in a DA stage report due to the level of docume	ntation provided.		
Pendi	ng further	engagement, where a	applicable, this will be assessed upon receipt of Construction D	ocumentation.		

SECTION	SECTION D – ACCESS AND EGRESS						
Clause	[2019]	Description	Comments	Assessment			
	– Access a						
-		objectives, functiona	al statements, performance requirements and verification methe	nods relevant to			
	this Section.						
Part D2		n for escape	1				
D2D1	D1.0	DtS Provisions	Information only.	Noted			
D2D2	D1.1	Application of Part	Information only.	Noted			
D2D3	D1.2	Number of exits required	The building must be provided with at least 1 exit from all areas. The provision of exits throughout the building complies.	Complies			
D2D4	D1.3	When fire- isolated stairways and ramps are required	Hotel: The stairs to the hotel portion must be fire isolated as they connect more than 3 storeys. Bowling Club & Carpark: The stairs to the bowling club connect only two storey and are not required to be fire isolated.	CRA			
D2D5	D1.4	Exit travel distances	The distances to an exit are within the limitations of this clause except where subject to a proposed performance solution as outlined in part 3 of this report. Note: The concessions under Spec 18 have been applied to the Hotel portion (sprinklers to Class 3 buildings not more than 25m in effective height)	PS			
D2D6	D1.5	Distance between alternative exits	The distances between alternative exits are within the limitations of this clause except where subject to design amendments and a possible performance solution as outlined in part 3.2 of this report.	PS			
D2D7	D1.6(a)	Height of exits, paths of travel to exits and doorways	The required exit or path of travel to an exit must be not less than 2m in height. The reduction in height to 1980mm is permitted at any doorway.	CRA			
D2D8	D1.6(b), (c), (d) and (e)	Width of exits and paths of travel to exits	A minimum clear width of 1m is required. The 1m is to be clear of all obstructions such as handrails, PFE, hydrants etc.	CRA			



Clause	[2019]	Description	Comments	Assessment
			There are pinch points within the design where less than 1.0m is achieved and design amendments are required. Refer to part 3.4	
			Based on the total number of occupants within the building, the below aggregate egress width is required:	
			Bowling Club: Enclosed Greens: Total width provided: 5.75 m 2.0 m = 200 3.75 m = 420 occupants total = 200 + 420 = 620.	
			The maximum number of occupants to the enclosed greens area is 620.	
			Bowling Club: ground Floor: Total width provided: 4.5m 2.0m + 500mm for every 60 in excess of 200. 200 = 2 m 2.5 m / $0.5m = 5$ 60 x 5 = 300 200 + 300 = 500 occupants.	
			Complies	
			Bowling Club First Floor: 973 (+ staff) = Estimated 1,000 total	
			2.0m + 500mm for every 60 in excess of 200. 200 = 2 m 800 / 60 = 14 0.5 m x 14 = 7 m Total aggregate width required = 2 m + 7 m = 9 m Total provided width provided = 14.5 m	
			Complies	
			Hotel And carpark levels: Less than 200 occupants and complies.	
			Level 5 (Function):	
			Egress width provided – 2.2m This allows for up to 200 occupants on this level. The number of patrsons on this level is therefore restricted to 180 (20 staff).	
D2D9	D1.6(f)	Width of doorways in exits or paths of travel to exits	The minimum width of 750mm through a doorway is required unless otherwise specified in this clause. Given that the access requirements in D4 require a minimum 850mm clearance in accessible areas, we recommend providing clear width of 850mm throughout the development.	CRA
D2D10	D1.6(g)	Exit width not to diminish in direction of travel	The unobstructed width of a required exit must not diminish in the direction of travel.	CRA



Clause	[2019]	Description	Comments	Assessment
D2D11	D1.6(h)	Description Determination	Comments The required stairway and/or ramp must have an	Assessment
02011	& (i)	and	unobstructed width (measured clear of handrails) of no	
		measurement of	less than 1,000mm.	CRA
		exits and paths		
D2D12	D1.7	of travel to exits Travel via fire-	The discharge of the fire isolated exits are within the	
DZDIZ	D1.7	isolated exits	limitations of this clause except where subject to a possible	PS
			performance solution as outlined in part 3.2 of this report.	
D2D13	D1.8	External	There are no external stairways in lieu of fire-isolated	
		stairways or	stairways in the development.	N1 / A
		ramps in lieu of fire-isolated		N/A
		exits		
D2D14	D1.9	Travel by non-	The travel distance via the non-fire-isolated exits are	
		fire-isolated	within the limitations of the DtS provisions.	CRA
		stairways or		0
D2D15	D1.10	ramps Discharge from	The discharge from exits must comply with the	
02015	01.10	exits	requirements of this clause.	CRA
D2D16	D1.11	Horizontal exits	There are no horizontal exits in the development.	N/A
				N/A
D2D17	D1.12	Non-required	The escalator within the class 9b bowling club connects 2 floors, once of which is the ground floor and therefore	
		stairways, ramps or escalators	complies with this clause.	Complies
D2D18	D1.13	Number of	Occupant calculations have been provided in part 2.4 of	
		persons	this report.	Noted
D2D19	D1.14	accommodated Measurement of	Information only.	
02015	01.14	distances	internation only.	Noted
D2D20	D1.15	Method of	Information only.	Noted
D2D21	D1.16	measurement Plant rooms, lift	Access for maintenance must be in accordance with this	To be
		machine rooms,	provision.	assessed at
		electricity		CC stage
		network substations:		
		Concession		
D2D22	D1.17	Access to lift pits	If the building incorporates a lift pit, access to it must	To be
			comply with this clause.	assessed at
D 2D22	D1 10	Enner from		CC stage
D2D23	D1.18	Egress from primary schools	The building does not incorporate a Class 9b primary school and therefore this clause does not apply	N/A
Part D3	– Construc	tion of Exits	series and therefore and statuse does not apply	
D3D1	D2.0	DtS Provisions	Information only.	Noted
D3D2	D2.1	Application of	Information only.	
0502	02.1	Part	information only.	Noted
D3D3	D2.2	Fire-isolated	The stairs within the fire-isolated stairs are to be non-	To be
		stairways and	combustible and not cause structural damage to the shaft	assessed at
		ramps	if there is local failure.	CC stage
D3D4	D2.3	Non-fire-	The construction of the non-fire-isolated exit stairway(s)	To be
		isolated stairways and	must be in accordance with this provision	assessed at
		ramps		CC stage
D3D5	D2.4	Separation of	The building does not incorporate rising and descending	
		rising and	stair flights and therefore this clause does not apply.	N/A
		descending stair flights		
D3D6	D2.5	Open access	The building is not proposed to be provided with open	
		ramps and	access ramp or balconies to meet the smoke hazard	N/A
		balconies		



Clause	[2019]	Description	Comments	Assessment
			management requirements of E2D4-E2D13 and therefore	
			this clause does not apply.	
D3D7	D2.6	Smoke lobbies	The building is not required to be provided with a smoke	
			lobby required by D2D12 and therefore this clause does	N/A
			not apply.	
D3D8	D2.7	Installations in	Access to services must be in accordance with this	To be
		exits and paths	provision.	assessed at
		of travel		CC stage
D3D9	D2.8	Enclosure of	The stairways are not shown to be enclosed to for a	Complies
		space under stairs and ramps	cupboard or similar enclosed space.	
D3D10	D2.9	Width of	The required stairways with a width over 2m are to be	
03010	02.9	required	divided with a handrail.	
		stairways and		CRA
		ramps		
D3D11	D2.10	Pedestrian	There are no ramps within the building serving as a	
-	_	ramps	required exit shown on the current plans.	CRA
D3D12	D2.11	Fire-isolated	Where applicable, fire-isolated passageways must be	To be
		passageways	constructed in accordance with this clause.	assessed at
				CC stage
D3D13	D2.12	Roof as open	There is no roof that has been assessed as open space.	N/A
		space		,
D3D14	D2.13	Goings and	Stair geometry and treads slip resistance must comply with	
		risers	this Clause.	To be
				assessed at
			Stair construction details must be provided as part of the	CC stage
			Construction documentation to enable further review.	
D3D15	D2.14	Landings	Landings for flights of stairs are to be at least 750mm long,	
			have a maximum gradient of 1:50 and have a slip	To be
			resistance in accordance with this Clause.	assessed at
				CC stage
			Stair construction details must be provided as part of the	0
53546	52.45		Construction documentation to enable further review.	
D3D16	D2.15	Thresholds	The threshold of a door must not incorporate a step or	To be
			ramp at any point closer to the doorway than the width of the door leaf in accordance with this Clause.	assessed at
D3D17	D2.16(a),	Barriers to	Trafficable surfaces above a meter in height are to be	CC stage To be
03017	(b) and	prevent falls	provided with a barrier.	assessed at
	(c)	preventians		CC stage
D3D18	Table	Height of	Generally, the minimum barrier height required is 1m in	To be
	D2.16a	barriers	height. However, on stairways and ramps the minimum	assessed at
			barrier height required is 865mm.	CC stage
D3D19		Openings in	The openings are to comply with the requirements of this	To be
		barriers	clause.	assessed at
				CC stage
D3D20		Barrier	Barriers required on a floor more than 4m above the	To be
		climbability	surface beneath must not incorporate climbable elements	assessed at
			between 150mm to 760mm.	CC stage
D3D21		Wire barriers	Wire barriers must be in accordance with this provision	To be
				assessed at
				CC stage
D3D22	D2.17	Handrails	Handrails are to comply with this Clause.	To be
				assessed at
				CC stage
D3D23	D2.18	Fixed platforms,	Where used must comply with AS1657, not proposed in	To be
		walkways,	the development.	assessed at
		stairways and		CC stage
D2D24	D2 40	ladders		5
D3D24	D2.19	Doorways and	The doorways and doors throughout the building are	CRA
		doors	capable of complying with this provision.	
	02.20	Swinging doors	The swinging exit doors throughout the building are	
D3D25	D2.20	Swinging doors	capable of complying with this provision.	CRA



Clause	[2019]	Description	Comments	Assessment
D3D26	D2.21	Operation of latch	All doorways must be provided with latches compliant with the requirements of this clause.	To be assessed at CC stage
D3D27	D2.22	Re-entry from fire-isolated exits	Re-entry is not required from the fire-isolated stairs.	N/A
D3D28	D2.23	Signs on doors	Signage is to be located on all fire and smoke doors in accordance with this Clause. For self-closing doors the sign is to stay "FIRE SAFETY DOOR DO NOT OBSTRUCT DO NOT KEEP OPEN" and for the door discharging from a fire- isolated exit "FIRE SAFETY DOOR – DO NOT OBSTRUCT". The text is to be a minimum of 20mm in height and a colour contrasting to the background of the sign.	To be assessed at CC stage
D3D29	D2.24	Protection of openable windows	Windows to the bedrooms of the Class 3 parts are to be provided with window locks in accordance with this Clause.	To be assessed at CC stage
D3D30	D2.25	Timber stairway: Concession	The concession is not being sought.	N/A

Part D4 – Access for People with a Disability Credwell have not been engaged to undertake an assessment against Part D4 of the BCA. Please refer to the third party Access Report for details.

SECTION E – SERVICES AND EQUIPMENT						
Clause	[2019]	Description	Comments	Assessment		
Part E1	Part E1 – Fire fighting equipment					
E1D1	E1.0	DtS Provisions	Information only.	Noted		
E1D2	E1.3	Fire hydrants	The building is required to be provided with a Hydrant System in accordance with this provision and AS 2419.1- 2021.			
			Details of the proposed hydrant system is to be provided by a suitably qualified hydraulic consultant as part of the Construction Documentation. Any proposed deviations from DtS within the hydrant system design are to be raised by the hydraulic consultant for discussion with relevant stakeholders to determine whether a performance solution can be supported.	To be assessed at CC stage		
E1D3	E1.4	Fire hose reels	The building is required to be provided with a Fire Hose Reel System in accordance with this provision and AS 2441, except for the class 3 hotel portion. Details of the proposed fire hose reel system is to be provided by a suitably qualified hydraulic consultant as part of the Construction Documentation. Any proposed deviations from DtS within the hose reel system design are to be raised by the hydraulic consultant for discussion with relevant stakeholders to determine whether a performance solution can be supported.	To be assessed at CC stage		
NSW E1D4 - E1D13	E1.5	Sprinklers	Hotel Building: The building is required to be provided with a sprinkler system to Spec 17 / 18 and AS 2118.1 / FPAA101H / FPAA101D in accordance with clause E1D6. Details of the proposed sprinkler system are to be provided by a suitably qualified hydraulic consultant as part of the Construction Documentation. Any proposed deviations from	To be assessed at CC stage		



Clause	[2019]	Description	Comments	Assessment
		•	DtS within the sprinkler system design are to be raised by	
			the hydraulic consultant for discussion with relevant	
			stakeholders to determine whether a performance solution	
5455	T 11	NA/1 11	can be supported.	
E1D5	Table	Where sprinklers	The building does not have an effective height or more than	N/A
	E1.5	are required: all classifications	25m and therefore this clause does not apply.	
E1D6	Table	Where sprinklers	The building contains class 3 parts, has a rise in storeys of 4	
LIDU	E1.5	are required: Class	or more, but an effective height of not more than 25m and	
	-	2 and 3 buildings	therefore the whole building is required to be provided with	
		other than	a sprinkler system to Spec 18 and AS 2118.1, or FPAA101D;	To be
		residential care	or FPAA101H.	assessed at
		buildings		CC stage
			The building is more than 4 storeys and therefore an AS	
			2118.4 system cannot be proposed.	
E1D7	Table	Where sprinklers	The building does not contain any class 3 residential care	
	E1.5	are required: Class	areas and therefore this clause does not apply.	N/A
		3 building used as		14/7
		a residential care		
E1D8	Table	building Where sprinklers	The building does not contain class 6 areas and therefore	
EID8	E1.5	are required: Class	this clause does not apply.	N/A
	L1.5	6 building		
E1D9	Table	Where sprinklers	Sprinklers are required as the building contains a class 7a	
	E1.5	are required: Class	carpark with a fire compartment that accommodates more	
		7a building, other	than 40 vehicles. Sprinklers to this area must be in	
		than an open-deck	accordance with AS 2118	FI
		carpark		
			*Note: where the carpark is open deck, this requirement	
			does not apply. Confirmation is to be provided.	
E1D10	Table	Where sprinklers	The building does not contain class 9a or 9c use and	
	E1.5	are required: Class	therefore this clause does not apply.	
		9a health-care		N/A
		building used as a residential care		
		building, Class 9c		
		buildings		
E1D11	Table	Where sprinklers	The building does not contain class 9b early childhood	
	E1.5	are required: Class	centre, or a stage that is greater than 200 m ² and therefore	N/A
		9b buildings	this clause does not apply.	
E1D12	Table	Where sprinklers	The building does not contain an atrium and has not been	
	E1.5	are required:	assessed as a large isolated building and therefore this	N/A
		additional	clause does not apply.	,,.
54542		requirements		
E1D13	Table E1.5	Where sprinklers	The building does not contain excessive hazards and	
	(note	are required: occupancies of	therefore this clause does not apply.	N/A
	4)	excessive hazard		
	-,			
E1D14	E1.6	Portable fire	The building is to be provided with portable fire	To be
		extinguishers	extinguishers in accordance with this provision and AS 2444.	assessed at
				CC stage
E1D15	E1.8	Fire control	As the building contains class 6, 7, 8, or 9 uses with a floor	FI
		centres	area of more than 18,000m ² , a fire control centre is	
			required to comply with spec 19.	
E1D16	E1.9	Fire precautions	In a building under construction not less than one fire	
		during	extinguisher to suit Class A, B and C fires and electrical fires	Noted
		construction	must be provided at all times on each storey adjacent to	
		1	each required exit or temporary stairway or exit.	



Clause	[2010]	Description	Comments	Accorr
Clause	[2019]	Description	Comments	Assessment
			After the building has reached an effective height of 12m	
			the fire hydrant and hose reels are to be operational in at	
			least every storey covered by a roof or floor, except the 2	
			uppermost storeys. The fire hydrant booster connections	
			must also be installed.	
E1D17	E1.10	Provisions for	Special hazards such as EV charging stations, or battery	Performance
		special hazards	storage are to be detailed as part of the Construction	based
D 1 50	<u> </u>		Documentation.	bused
E2D1	E2.0	zard management DtS Provisions	Information only.	Noted
E2D1	E2.1	Application of Part	Information only.	Noted
E2D2	E2.2	General	An air-handling system which does not form part of a smoke	Noted
LZDJ	L2.2	requirements	hazard management system in accordance with E2D4 to	
		requirements	E2D20 and which recycles air from one fire compartment to	To be
			another fire compartment or operates in a manner that may	assessed at
			unduly contribute to the spread of smoke from one fire	CC stage
			compartment to another fire compartment must comply	0000080
			with the requirements of this clause	
E2D4	Table	Fire-isolated exits	The fire isolated exits are not required to be provided with	N/A
	E2.2a		an automatic air pressurisation system or open access	,
			ramps / balconies as the building has an effective height of	
			less than 25 and no basement levels.	
E2D5	Table	Buildings more	The building has an effective height of less than 25m and	N/A
	E2.2a	than 25 m in	therefore this clause does not apply.	
		effective height:		
		Class 2 and 3		
		buildings and Class		
		4 part of a building		
E2D6	Table	Buildings more	The building has an effective height of less than 25m and	N/A
	E2.2a	than 25 m in	therefore this clause does not apply.	
		effective height:		
		Class 5, 6, 7b, 8 or		
		9b buildings		
E2D7	Table	Buildings more	The building has an effective height of less than 25m and	N/A
	E2.2a	than 25 m in	therefore this clause does not apply.	
		effective height:		
5200	T - 1-1 -	Class 9a buildings	The building more because the desire in the second state of the se	T - h -
E2D8	Table	Buildings not more	The building must be provided with an automatic Smoke	To be
	E2.2a	than 25 m in effective height:	detection and alarm system to spec 20 throughout the	assessed at CC stage
		Class 2 and 3	building	CC Stage
		buildings and Class		
		4 part of a building		
E2D9	Table	Buildings not more	The building must be provided with an automatic Smoke	To be
	E2.2a	than 25 m in	detection and alarm system to spec 20 throughout the	assessed at
		effective height:	building.	CC stage
		Class 5, 6, 7b, 8		
E2D10	Tabla	and 9b buildings	This clause doos not apply to this douglassment as it is not a	NI / A
E2D10	Table	Buildings not more than 25 m in	This clause does not apply to this development as it is not a	N/A
	E2.2a		large-isolated buildings subject to C3D4	
		effective height: large isolated		
		buildings subject		
		to C3D4		
E2D11	Table	Buildings not more	This clause does not apply to this development as it is not a	
LZDII	E2.2a	than 25 m in	Class 9a and 9c buildings	
	L2.2a	effective height:		N/A
		Class 9a and 9c		,,,



Clause	[2019]	Description	Comments	Assessment
E2D12	Table	Class 7a buildings	Where the Class 7a carpark is not Open deck, it must be	To be
	E2.2a		provided with a mechanical ventilation system in	assessed at
			accordance with AS 1668.2, and clause 5.5 of AS 1668.1.	CC stage
E2D13	Table	Basements (other	This clause does not apply to this development as it does	N/A
	E2.2a	than Class 7a	not contain a basement.	,,,
		buildings)		
E2D14	Table	Class 6 buildings –	This clause does not apply to this development as it does	
	E2.2b	in fire	not contain a Class 6 buildings in fire compartments more than 2000 m2 containing an enclosed common walkway or	
		compartments more than 2000	mall serving more than one Class 6 sole-occupancy unit.	
		m2: Class 6	man serving more than one class o sole occupancy unit.	
		building (not		
		containing an		N/A
		enclosed common		
		walkway or mall		
		serving more than		
		one Class 6 sole-		
		occupancy unit)		
E2D15	Table	Class 6 buildings –	This clause does not apply to this development as it does	
	E2.2b	in fire	not contain Class 6 buildings in fire compartments more than 2000 m2 containing an enclosed common walkway or	
		compartments more than 2000	mall.	
		m2: Class 6		N/A
		building		
		(containing an		
		enclosed common		
		walkway or mall)		
NSW	Table	Class 9b –	The class 9b assembly building must be provided with and	
E2D16	E2.2b	assembly	automatic shutdown of any air-handling system upon the	
		buildings: all	activation of smoke detections complying with S20C6.	
			Note: This only applies when an air-conditioning system is	To be
			installed in the building (excluding non-ducted individual	assessed at
			room units with a capacity of not more than 1000L/s).	CC stage
				0
			Mechanical consultant to confirm whether any air-	
			conditioning system is proposed subject to this provision as	
			part of the Construction Certificate phase.	
NSW	Table	Class 9b –	This clause does not apply to this development as it does	
E2D17	E2.2b	assembly	not contain a Class 9b night club, discotheque or the like.	
		buildings: night clubs,		N/A
		discotheques and		
		the like		
NSW	Table	Class 9b –	This clause does not apply to this development as it does	
E2D18	E2.2b	assembly	not contain a Class 9b exhibition hall, museum or art gallery.	
		buildings:		N/A
		exhibition halls,		,,,
		museums and art		
NSW	Table	galleries Class 9b –	The bowling club and level 5 function areas are assessed as	
E2D19	E2.2b	assembly	class 9b assembly buildings.	
		buildings: other		
		assembly buildings	The bowling club fire compartment is greater than 5000 m ²	
		(not listed in NSW	and the building has a rise in storeys or greater than 2, and	To be
		E2D16-E2D18)	therefore the bowling club and level 5 function areas must	assessed at
			be provided with either:	CC stage
			An automatic smoke exhaust system comply with	C C
			 An automatic smoke exhaust system comply with spec 21; or 	
			 Roof mounted automatic smoke and heat vents 	
		1	complying with spec 22.	



Clause	[2019]	Description	Comments	Assessment
NSW	Table	Class 9b assembly	Clause E2D20 has not been adopted for NSW	Assessment
E2D20	E2.2b	buildings: other	clause L2D20 has not been adopted for NSW	
		assembly buildings		N/A
		(not listed in		
		E2D16 to E2D19)		
E2D21	E2.3	Provision for	Special hazards such as EV charging stations, or battery	Performance
		special hazards	storage are to be assessed as special hazards and included	based
			in the fire engineering report.	buseu
1	Lift install			
E3D1	E3.0	DtS Provisions	Information only.	Noted
E3D2	E3.1	Lift installations	An electric passenger lift installation and an electrohydraulic	To be
			passenger lift installation must comply with Specification 24. The lift manufacture is to ensure compliance with this	assessed at
			clause is achieved as part of the CC stage.	CC stage
E3D3	E3.2	Stretcher facility in	The lift must accommodate an area not less than 600mm	
LJDJ	LJ.2	lifts	wide x 2000mm long x 1400mm above the floor level for a	To be
		into a	stretcher. The lift manufacture is to ensure compliance with	assessed at
			this clause is achieved as part of the CC stage.	CC stage
			this clause is achieved as part of the CC stage.	ee stage
E3D4	E3.3	Warning against	Warning signage stating DO NOT USE LIFTS IF THERE IS A	
LJD4	23.5	use of lifts in fire	FIRE is to be provided in accordance with this Clause. The	To be
			lift manufacture is to ensure compliance with this clause is	assessed at
			achieved as part of the CC stage.	CC stage
E3D5	E3.4	Emergency lifts	The building has an effective height of less than 25m and	NI / A
			therefore this clause does not apply.	N/A
E3D6	E3.5	Landings	Access and egress to and from lift well landings must	
			comply with the Deemed-to-Satisfy Provisions of Parts D2,	CRA
			D3 and D4	
E3D7	E3.6,	Passenger lifts and	If the lift(s) provided are use of electric passenger lifts,	
	table	their limitations	electrohydraulic passenger lifts or inclined lifts they have no	To be
	E3.6a,		limitations. Details are to be provided at CC Stage.	assessed at
	Table			CC stage
5350	E3.6b			
E3D8	Table E3.6a,	Accessible features required for	An accessibility assessment is not included as part of this report.	
	Table	passenger lifts		Noted
	E3.6b	passenger ints		
E3D9	E3.7	Fire service	The lift serves a storey above an effective height of 12m,	
		controls	therefore, must be provided with a fire service recall control	
			switch and a lift car fire service drive control switch in	To be
			accordance with this clause. The lift manufacture is to	assessed at
			ensure compliance with this clause is achieved as part of the	CC stage
			CC stage.	
E3D10	E3.8	Residential care	This clause does not apply to this development as it does	
		buildings	not contain residential care as defined by the BCA.	N/A
E3D11	E3.9	Fire service recall	Where required by Clause E3D9 a fire service recall control	To be
		control switch	switch is to be provided in accordance with this Clause. The	assessed at
			lift manufacture is to ensure compliance with this clause is	CC stage
E3D12	E3.10	Lift car fire service	achieved as part of the CC stage. Where required by Clause E3D9 a lift car fire service drive	
13012	L3.10	drive control	control switch is to be provided in accordance with this	To be
		switch	Clause. The lift manufacture is to ensure compliance with	assessed at
			this clause is achieved as part of the CC stage.	CC stage
Part E4 –	Visibility i	n an emergency, exit	signs and warning systems	
E4D1	E4.0	DtS Provisions	Information only.	Noted
E4D2	E4.2	Emergency lighting	The building is to be provided with emergency lighting in	To be
		requirements	accordance with this Clause.	assessed at
				CC stage
E4D3	E4.3	Measurement of	Information only.	Noted
		distance		



Clause	[2019]	Description	Comments	Assessment
E4D4	E4.4	Design and	Services designer to confirm the emergency lighting	To be
		operation of	complies with the BCA and AS 2293.1-2018 as part of the CC	assessed at
		emergency lighting	stage.	CC stage
E4D5	E4.5	Exit signs	Services designer to confirm the exit signage complies	To be
			with the BCA and AS 2293.1-2018 as part of the CC	assessed at
			stage.	CC stage
E4D6	E4.6	Direction signs	Services designer to confirm the exit signage complies	To be
			with the BCA and AS 2293.1-2018 as part of the CC	assessed at
			stage.	CC stage
E4D7	E4.7	Class 2 and 3	This clause/exemption does not apply to this development	
		buildings and Class	as it does not contain a class 2 and 3 buildings and Class 4	To be
		4 parts:	parts	assessed at
		Exemptions		CC stage
E4D8	E4.8	Design and	Services designer to confirm the exit signage complies with	To be
E4D0	E4.0	operation of exit	the BCA and AS 2293.1-2018 as part of the CC stage.	assessed at
		signs	the bea and as 2293.1-2010 as part of the ce stage.	CC stage
E4D9	E4.9	Emergency	The building has an effective height of less than 25m, does	00 30080
2.20	2.110	warning and	not contain a class 3 or 9 part subject this clause and these	To be
		intercom systems	for is not required to have an EWIS.	assessed at
		,		CC stage
Specifica	tion 17 – F	ire sprinkler systems	[2019: Spec E1.5]	
			s not included in a DA stage report due to the level of document	ation provided.
Pendi	ng further	engagement, where a	pplicable, this will be assessed upon receipt of Construction Doc	umentation.
			not more than 25 m in effective height [2019: Spec E1.5a]	
	-		s not included in a DA stage report due to the level of document	
			pplicable, this will be assessed upon receipt of Construction Doc	umentation.
		ire control centres [20		
An ass	coccmont a		S10C2 S10C5 S10C8 & S10C11 S10C12 has not been included i	
			519C3, S19C5 - S19C8, & S19C11-S19C13 has not been included i	
		evel of documentation	provided. Pending further engagement, where applicable, this v	
report dı	ue to the le	evel of documentation upo	provided. Pending further engagement, where applicable, this v n receipt of Construction Documentation.	
	ue to the lo Spec	evel of documentation upo Location of fire	provided. Pending further engagement, where applicable, this v n receipt of Construction Documentation. A fire control centre must be located so that egress from	will be assessed
report dı	ue to the lo Spec E1.8	evel of documentation upo	provided. Pending further engagement, where applicable, this was n receipt of Construction Documentation. A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve	
report dı	ue to the lo Spec	evel of documentation upo Location of fire	provided. Pending further engagement, where applicable, this v n receipt of Construction Documentation. A fire control centre must be located so that egress from	will be assessed
report dı	ue to the lo Spec E1.8 Clause 3	evel of documentation upo Location of fire	provided. Pending further engagement, where applicable, this was neceipt of Construction Documentation. A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve changes in level which in aggregate exceed 300mm.	will be assessed
report du S19C4	ue to the lo Spec E1.8 Clause	evel of documentation upo Location of fire control centre	provided. Pending further engagement, where applicable, this was n receipt of Construction Documentation. A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve	FI
report du S19C4	ue to the lo Spec E1.8 Clause 3 Spec	evel of documentation upo Location of fire control centre Construction of a	provided. Pending further engagement, where applicable, this was neceipt of Construction Documentation. A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve changes in level which in aggregate exceed 300mm. The building contains an effect height of less than 50m and	will be assessed
report du S19C4	ue to the lo Spec E1.8 Clause 3 Spec E1.8	Evel of documentation upo Location of fire control centre Construction of a fire control room	provided. Pending further engagement, where applicable, this on receipt of Construction Documentation. A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve changes in level which in aggregate exceed 300mm. The building contains an effect height of less than 50m and therefore is not required to contain a separate fire control room.	FI
report du S19C4	Spec E1.8 Clause 3 Spec E1.8 Clause 6 Spec	Evel of documentation upo Location of fire control centre Construction of a fire control room Doors to a fire	provided. Pending further engagement, where applicable, this of n receipt of Construction Documentation. A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve changes in level which in aggregate exceed 300mm. The building contains an effect height of less than 50m and therefore is not required to contain a separate fire control room. The Fire control room must be accessible via two (2) paths	FI
S19C4 S19C7	Spec E1.8 Clause 3 Spec E1.8 Clause 6 Spec E1.8	Evel of documentation upo Location of fire control centre Construction of a fire control room	provided. Pending further engagement, where applicable, this of n receipt of Construction Documentation. A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve changes in level which in aggregate exceed 300mm. The building contains an effect height of less than 50m and therefore is not required to contain a separate fire control room. The Fire control room must be accessible via two (2) paths of travel:	FI N/A
S19C4 S19C7	Spec E1.8 Clause 3 Spec E1.8 Clause 6 Spec E1.8 Clause Clause	Evel of documentation upo Location of fire control centre Construction of a fire control room Doors to a fire	provided. Pending further engagement, where applicable, this of n receipt of Construction Documentation. A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve changes in level which in aggregate exceed 300mm. The building contains an effect height of less than 50m and therefore is not required to contain a separate fire control room. The Fire control room must be accessible via two (2) paths of travel: 1. Front entrance of the building; and	FI
S19C4 S19C7	Spec E1.8 Clause 3 Spec E1.8 Clause 6 Spec E1.8	Evel of documentation upo Location of fire control centre Construction of a fire control room Doors to a fire	 provided. Pending further engagement, where applicable, this of n receipt of Construction Documentation. A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve changes in level which in aggregate exceed 300mm. The building contains an effect height of less than 50m and therefore is not required to contain a separate fire control room. The Fire control room must be accessible via two (2) paths of travel: Front entrance of the building; and Direct from a public place, or a fire isolated 	FI N/A
report du S19C4 S19C7 S19C9	Spec E1.8 Clause 3 Spec E1.8 Clause 6 Spec E1.8 Clause 8	Evel of documentation upo Location of fire control centre Construction of a fire control room Doors to a fire control room	 provided. Pending further engagement, where applicable, this was neceipt of Construction Documentation. A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve changes in level which in aggregate exceed 300mm. The building contains an effect height of less than 50m and therefore is not required to contain a separate fire control room. The Fire control room must be accessible via two (2) paths of travel: Front entrance of the building; and Direct from a public place, or a fire isolated passageway which leads to a public place 	FI N/A
S19C4 S19C7	spec E1.8 Clause 3 Spec E1.8 Clause 6 Spec E1.8 Clause 8 Spec 8	Evel of documentation upo Location of fire control centre Construction of a fire control room Doors to a fire control room Size and contents	 provided. Pending further engagement, where applicable, this was neceipt of Construction Documentation. A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve changes in level which in aggregate exceed 300mm. The building contains an effect height of less than 50m and therefore is not required to contain a separate fire control room. The Fire control room must be accessible via two (2) paths of travel: Front entrance of the building; and Direct from a public place, or a fire isolated passageway which leads to a public place 	FI N/A
report du S19C4 S19C7 S19C9	spec E1.8 Clause 3 Spec E1.8 Clause 6 Spec E1.8 Clause 8 Spec E1.8 Spec E1.8	Evel of documentation upo Location of fire control centre Construction of a fire control room Doors to a fire control room Size and contents of a fire control	 provided. Pending further engagement, where applicable, this of n receipt of Construction Documentation. A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve changes in level which in aggregate exceed 300mm. The building contains an effect height of less than 50m and therefore is not required to contain a separate fire control room. The Fire control room must be accessible via two (2) paths of travel: Front entrance of the building; and Direct from a public place, or a fire isolated passageway which leads to a public place The building contains an effect height of less than 50m and therefore is not required to contain a separate fire control room. 	FI N/A
report du S19C4 S19C7 S19C9	spec E1.8 Clause 3 Spec E1.8 Clause 6 Spec E1.8 Clause 8 Spec E1.8 Clause 8 Clause 8 Clause Clause	Evel of documentation upo Location of fire control centre Construction of a fire control room Doors to a fire control room Size and contents	 provided. Pending further engagement, where applicable, this was neceipt of Construction Documentation. A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve changes in level which in aggregate exceed 300mm. The building contains an effect height of less than 50m and therefore is not required to contain a separate fire control room. The Fire control room must be accessible via two (2) paths of travel: Front entrance of the building; and Direct from a public place, or a fire isolated passageway which leads to a public place 	FI N/A N/A
report du S19C4 S19C7 S19C9 S19C10	ue to the lo Spec E1.8 Clause 3 Spec E1.8 Clause 6 Spec E1.8 Clause 8 Spec E1.8 Clause 9	Evel of documentation upo Location of fire control centre Construction of a fire control room Doors to a fire control room Size and contents of a fire control room	 provided. Pending further engagement, where applicable, this on receipt of Construction Documentation. A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve changes in level which in aggregate exceed 300mm. The building contains an effect height of less than 50m and therefore is not required to contain a separate fire control room. The Fire control room must be accessible via two (2) paths of travel: Front entrance of the building; and Direct from a public place, or a fire isolated passageway which leads to a public place The building contains an effect height of less than 50m and therefore is not required to contain a separate fire control room. 	FI N/A N/A
S19C4 S19C7 S19C9 S19C10 S19C10	ue to the lo Spec E1.8 Clause 3 Spec E1.8 Clause 6 Spec E1.8 Clause 8 Spec E1.8 Clause 9 tion 20 – S	Evel of documentation upo Location of fire control centre Construction of a fire control room Doors to a fire control room Size and contents of a fire control room	provided. Pending further engagement, where applicable, this of n receipt of Construction Documentation. A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve changes in level which in aggregate exceed 300mm. The building contains an effect height of less than 50m and therefore is not required to contain a separate fire control room. The Fire control room must be accessible via two (2) paths of travel: 1. Front entrance of the building; and 2. Direct from a public place, or a fire isolated passageway which leads to a public place The building contains an effect height of less than 50m and therefore is not required to contain a separate fire control room.	FI N/A N/A N/A
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 Clause
 [2019]
 Description
 Comments
 Assessment

 An assessment against this specification is not included in a DA stage report due to the level of documentation provided. Pending further engagement, where applicable, this will be assessed upon receipt of Construction Documentation.
 Documentation.

Please refer to the proposed Fire Safety Schedule for details of the required Fire Safety Systems. Specification 23 – Residential fire safety systems [2019: Spec E2.2d]

An assessment against this specification is not included in a DA stage report due to the level of documentation provided. Pending further engagement, where applicable, this will be assessed upon receipt of Construction Documentation.

Please refer to the proposed Fire Safety Schedule for details of the required Fire Safety Systems.

Specification 24 – Lift installations [2019: Spec E3.1]

An assessment against this specification is not included in a DA stage report due to the level of documentation provided. Pending further engagement, where applicable, this will be assessed upon receipt of Construction Documentation. Specification 25 – Photoluminescent exit signs [2019: Spec E4.8]

An assessment against this specification is not included in a DA stage report due to the level of documentation provided. Pending further engagement, where applicable, this will be assessed upon receipt of Construction Documentation.

SECTION F - HEALTH AND AMENITY

Part F1 – Surface water management, rising damp and external waterproofing

An assessment against Part F1 is not included in a DA stage report due to the level of documentation provided. Pending further engagement, where applicable, this will be assessed upon receipt of Construction Documentation.

Note: This part relates to stormwater drainage, and damp-proofing.

Part F2 – Wet areas and overflow protection

An assessment against Part F2 is not included in a DA stage report due to the level of documentation provided. Pending further engagement, where applicable, this will be assessed upon receipt of Construction Documentation.

Note: This part relates to waterproofing and provision for floor wastes in wet areas of buildings.

Part F3 – Roof and wall cladding

An assessment against Part F3 is not included in a DA stage report due to the level of documentation provided. Pending further engagement, where applicable, this will be assessed upon receipt of Construction Documentation.

Note: This part relates to roof coverings and weatherproofing of external walls.

Part F4 -	Part F4 – Sanitary and other facilities			
F4D1	F2.0	DtS Provisions	Information only.	Noted
F4D2	F2.1	Facilities in residential buildings	Facilities to the class 3 hotel area are shown to meet the requirements of this provision.	Complies
			Details of the location of the hotel staff facilities are to be provided to enable further review	FI
F4D3	F2.2	Calculation of number of occupants and facilities	Occupant numbers have been provided under part 2.4 of this report. An equal number of males and females has been assumed.	Noted
F4D4	F2.3	Facilities in Class 3 to 9 buildings	Please refer to annexure D for sanitary facility calculations.	CRA
F4D5	F2.4	Accessible sanitary facilities	An access assessment has not been undertaken as part of this review	Noted
F4D6	Table F2.4a	Accessible unisex sanitary compartments	An access assessment has not been undertaken as part of this review	Noted
F4D7	Table F2.4B	Accessible unisex showers	An access assessment has not been undertaken as part of this review	Noted
F4D8	F2.5	Construction of sanitary compartments	The sanitary compartments are capable of complying with this provision	To be assessed at CC stage
F4D9	F2.6	Interpretation: Urinals and washbasins	Information only.	Noted



F5D1	F2.8 F2.9	Waste	2012.	
Part F5 – I F5D1	F2 9	management	The development does not contain any class 9a parts and therefore this clause does not apply.	N/A
F5D1	12.5	Accessible adult change facilities	An access assessment has not been undertaken as part of this review	Noted
_	Room height			r
	F3.0	DtS Provisions	Information only.	Noted
F5D2	F3.1	Height of rooms and other spaces	Room heights are to be in accordance with this provision.	To be assessed at CC stage
Part F6 – I	Light and vei	ntilation		•
F6D1	F4.0	DtS Provisions	Information only.	Noted
F6D2	F4.1	Provisions of natural light	Provision for natural light must be provided to the class 3 bedrooms in accordance with this provision.	CRA
F6D3	F4.2	Methods and extent of natural light	All bedrooms are shown to be provided with sliding doors. Details of the glazed area of each opening is to be confirmed and reviewed as part of the Construction Documentation	CRA
F6D4	F4.3	Natural light borrowed from adjoining room	The Class 3 hotel bedrooms are all shown to have direct access to natural light.	N/A
F6D5	F4.4	Artificial lighting	Artificial lighting to be provided to AS 1680.1. Compliance is to be confirmed by a suitably qualified electrical consultant.	CRA
F6D6	F4.5	Ventilation of rooms	Natural or mechanical ventilation to be provided to all areas of the building.	CRA
F6D7	F4.6	Natural ventilation	Suitable qualified mechanical consultant is to confirm the type of ventilation proposed (natural vs mechanical) and in turn confirm compliance with this part.	CRA
F6D8	F4.7	Ventilation borrowed from adjoining room	Suitable qualified mechanical consultant is to confirm the type of ventilation proposed (natural vs mechanical) and in turn confirm compliance with this part.	CRA
F6D9	F4.8	Restriction on location of sanitary compartments	Sanitary facilities are shown to be capable of complying with this provision.	CRA
F6D10	F4.9	Airlocks	Sanitary facilities are shown to be capable of complying with this provision.	CRA
F6D11	F4.11	Carparks	Every storey of a carpark, except an open-deck carpark, must have a system of mechanical ventilation complying with AS1668.2-2012 or a system of natural ventilation complying with Section 4 of AS1668.4-2012.	To be assessed at CC stage
F6D12	F4.12	Kitchen local exhaust ventilation	Where a commercial kitchen has a cooking apparatus that has a total maximum electrical power input exceeding 8kW or a total gas power input exceeding 29mJ/h	To be assessed at CC stage
An assess fu	sment agains rther engage	ment, where applicable s to measures required	d in a DA stage report due to the level of documentation pro e, this will be assessed upon receipt of Construction Docume to reduce noise transmission between adjoining parts of th plies to class 2, 3 and 9c buildings only.	entation.
F1.7]		erproofing and water-	resistance requirements for building elements in wet area	-
			t included in a DA stage report due to the level of documen cable, this will be assessed upon receipt of Construction Doc	
Specificat	ion 27 – Acco		cilities [2019: Spec F2.9] oes not include an accessibility assessment.	



Specification 28 – Sound insulation for building elements [2019: Spec F5.2]

An assessment against this specification is not included in a DA stage report due to the level of documentation provided. Pending further engagement, where applicable, this will be assessed upon receipt of Construction Documentation. Specification 29 – Impact sound – test of equivalence [2019: Spec F5.5]

An assessment against this specification is not included in a DA stage report due to the level of documentation provided. Pending further engagement, where applicable, this will be assessed upon receipt of Construction Documentation.

SECTION	SECTION G – ANCILLARY PROVISIONS				
Clause	[2019]	Description	Comments	Assessment	
Part G1	– Minor s	tructures and com	ponents		
G1D1	G1.0	DtS Provisions	Information only.	Noted	
G1D2	G1.1	Swimming pools	A swimming pool with a depth of water more than 300 mm		
			and which is associated with a Class 3 part of a building, must		
			have suitable barriers to restrict access by young children to		
			the immediate pool surrounds in accordance with AS 1926.1	To be	
			and AS 1926.2.	assessed at	
			A water regirevision system in a swimming neal with a	CC stage	
			A water recirculation system in a swimming pool with a depth of water more than 300 mm must comply with AS		
			1926.3.		
G1D3	G1.2	Refrigerated	Refrigerated chambers, strong-rooms and vaults that are of a	To be	
0100	0112	chambers, strong-	sufficient size for a person to enter are to have facilities	assessed at	
		rooms and vaults	meeting the requirements of this Clause.	CC stage	
G1D4	G1.3	Outdoor play	The building does not contain a Class 9b early childhood		
		spaces	centre and therefore this clause does not apply.	N/A	
NSW	NSW	Provision for	A building must be provided with a safe manner of cleaning		
G1D5	G1.101	cleaning windows	any windows located 3 or more storeys above the ground	To be	
			level via either windows that can be cleaned wholly from	assessed at	
			within the building or provision for the cleaning of the	CC stage	
			windows by a method complying with the WH&S Act 2001 and regulations made under that Act.	-	
Part G2	- Boilers n	rossuro vossols boot	ing appliances, fireplaces, chimneys and flues		
G2D1	G2.0	DtS Provisions	Information only.	Noted	
G2D2	G2.2	Installation of	The installation of a stove, heater or similar appliance in a		
		appliances	building must comply with:	To be	
			(a) Domestic solid-fuel burning appliances — installation:	assessed at	
			AS/NZS 2918.	CC stage	
			(b) For boilers and pressure vessels: Specification 30.		
G2D3	G2.3	Open fireplaces	Open fire places are to comply with this Clause.	To be	
				assessed at	
C2D4	C2 4			CC stage	
G2D4	G2.4	Incinerator rooms	Incinerator rooms are to comply with this Clause.	N/A	
			m that connects more than 2 storeys, or more than 3 storeys (if e	each storey is	
			one of those storeys is located at a level with direct egress to a r		
			ainst this part has not been undertaken and the remaining clause		
		, c	removed from this report.		
		tion in alpine areas			
The	building is	not within an alpine a	irea and therefore an assessment against this part has not been u	undertaken.	
Part G5 -	Part G5 – Construction in bushfire prone areas				
G5D1	G5.0	DtS Provisions	Information only.	Noted	
G5D2	G5.1	Application of	This Part applies to any Class 2 or 3 building and any Class	To be	
		Part	10a building associated with a Class 2 or 3 building	assessed at	
		-	constructed in designated bushfire prone area.	CC stage	
G5D3	NSW	Protection –	In a designated bushfire prone area the following must	To be	
	G5.2	residential	comply with AS 3959:	assessed at	
		buildings	(a) A Class 2 or 3 building.	CC stage	

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Clause	[2019]	Description	Comments	Assessment
			(b) A Class 10a building or deck immediately adjacent or	
			connected to a Class 2 or 3 building.	
G5D4	New	Protection –	In a designated bushfire prone area the following must	To be
		certain Class 9	comply with Specification 43:	assessed at
		buildings	(a) A Class 9a health-care building.	CC stage
			(b) A Class 9b—	
			(i) early childhood centre; or	
			(ii) primary or secondary school.	
			(c) A Class 9c residential care building.	
			(d) A Class 10a building or deck immediately adjacent or	
			connected to a building of a type listed in (a) to (c).	
Part G6 -	- Occupiab	le outdoor areas		
G6D1	G6.1	Application of	This section applies to the Level 2 hotel outdoor area.	Noted
		Part		Noted
G6D2	G6.2	Fire hazard	Linings are to comply with the fire hazard property	To be
		properties	requirements as per C2D11 of the BCA.	assessed at
				CC stage
G6D3	G6.3	Fire separation	The outdoor occupiable area is not proposed to be fire	Noted
			separated from the remaining parts of the store.	noteu
G6D4	G6.4	Provision of	Egress from the outdoor area has been considered in	Noted
		escape	accordance with part D2	
G6D5	G6.5	Construction of	Construction of exits has been considered in accordance with	Noted
C(D(<u> </u>	exits	part D3	T. h.
G6D6	G6.6	Fire fighting	All required fire services are to be extended into the outdoor	To be
		equipment	occupiable area.	assessed at
G6D7	G6.7	Lift installations	A lift is serving the level 2 outdoor occupiable area.	CC stage CRA
G6D8	G6.8	Visibility in an	All required fire services are to be extended into the outdoor	CRA
0008	00.8	emergency, exit	occupiable area.	To be
		signs and warning		assessed at
		systems		CC stage
G6D9	G6.9	Light and	The outdoor area is not enclosed of covered and therefore	
		ventilation	complies	CRA
G6D10	G6.10	Fire orders	Fire orders to be installed in accordance with this provision.	To be
				assessed at
				CC stage
Part G7 -	- Livable h	ousing design		
	Part	G7 does not apply in	NSW and therefore this part has been removed from this report	
Specifica	tion 30 - 1	nstallation of boilors	and pressure vessels [2019: Spec G2.2]	
			is not included in a DA stage report due to the level of document	ation provider
			applicable, this will be assessed upon receipt of Construction Doc	
	-		bl systems in buildings containing atriums [2019: Spec G3.8]	amentation.

Specification 31 – Fire and smoke control systems in buildings containing atriums [2019: Spec G3.8] The building does not contain an atrium that connects more than 2 storeys, or more than 3 storeys (if each storey is provided with a sprinkler system and one of those storeys is located at a level with direct egress to a road or open space). Therefore, an assessment against this specification has not been undertaken and the remaining clauses have been removed from this report.

SECTION I– SPECIAL USE BUILDINGS

The proposed development does not incorporate any uses subject to the provisions of Section I and therefore this section has been removed from the report.

SECTION J - ENERGY EFFICIENCY

An assessment against Section J has not been undertaken as part of this report.

Where applicable, a suitably qualified consultant is to be engaged to confirm compliance with this part. Credwell Energy is a specialised team and can offer this service.



If you require assistance, please contact Credwell Energy on 02 9281 8555 or <u>info@credwell.com.au</u> for further information.



Annexure A – Reviewed Documentation

This report has been based on the documentation listed below:

Architectural Details prepared by EJE, Project reference 13954			
Drawing Number	Revision	Title	
A00	В	COVER SHEET	
A01	С	SITE PLAN	
A02	Α	SITE ANALYSIS PLAN	
A16	С	GROUND FLOOR PLAN	
A17	С	GROUND FLOOR PLAN – CLUB	
A18	С	FIRST FLOOR PLAN	
A19	С	FIRST FLOOR PLAN - GREENS	
A20	С	FIRST FLOOR PLAN – HOTEL	
A21	С	SECOND FLOOR / ROOF	
A222	С	SECOND FLOOR / ROOF – GREENS	
A233	С	SECOND FLOOR – HOTEL	
A24	С	THIRD FLOOR	
A25	С	FOURTH FLOOR	
A26	С	FIFTH FLOOR	
A27	С	ROOF PLAN (HOTEL)	
A28	С	NORTH-WEST ELEVATION	
A29	В	SOUTH-WEST ELEVATIONS	
A30	С	EAST ELEVATION	
A39	A	STAGING – GROUND FLOOR	
A40	Α	STAGING – GROUND FLOOR	
A41	Α	STAGING – FIRST FLOOR	
A42	Α	STAGING – FIRST FLOOR	
A43	Α	STAGING – SECOND / ROOF	
A44	А	STAGING – SECOND / ROOF	



Annexure B – Fire Safety Measures

Given the assessment in this report, the following fire safety measures are required to be installed in the building. This list is subject to change if Performance Solutions are proposed, or other options are taken during the Construction Certificate (CC) and/or construction stages.

	Existing Fire Safety Measures – Bowling Club				
	Fire Safety Measure	Standard of Performance			
1.	Exit signs	Bistro and Dining Area BCA 2010 E4.5, NSW E4.6, E4.8 AS 2293.1-2005 Remaining sections of Club Building			
		BCA 90 (amdt 7) E4.5, NSW E4.6, E4.8 AS 2293.1- 1987			
2.	Portable fire extinguishers	BCA 90 (amdt 7) E1.6 and AS 2444-1985			
3.	Automatic fire detection and alarm systems	BCA 2010 E2.2, Spec E2.2a AS 1670.1-2004			
4.	Emergency lighting	Bistro and Dining Area BCA 2010 E4.2, E4.4, AS 2293.1-2005 Remaining sections of Club Building BCA 90 (amdt 7) E4.2, E4.4, AS 2293.1-1987			
5.	Fire doors	BCA 90 (amdt 7) Clauses C3.2, C3.4 – C3.8, C3.11, Spec C3.4 and AS 1905.1-1990			
6.	Fire hydrant systems	BCA 90 (amdt 7) Clauses E1.3 and AS 2419.1-1994			
7.	Emergency Warning and Intercommunication Systems	BCA 2010 E4.9, AS 1670.4-2004, AS 4428.4-2004			
8.	Fair Safe Devices	BCA 90 (amdt 7) D2.19, D2.21			
9.	Smoke Control System	BCA 90 (amdt 7) Part E2			

	Proposed Fire Safety Measures			
	Fire Safety Measure	Standard of Performance		
1.	Access panels, doors and hoppers to fire-	BCA 2022 Clause C4D14		
1.	resisting shaft	Manufacturer's Specifications		
2.	Automatic fail-safe devices (automatic	BCA 2022 Clause D3D24		
Ζ.	doors)	Manufacturer's Specifications		
3.	Automatic fail-safe devices (electronic	BCA 2022 Clause D3D26		
э.	latching)	Manufacturer's Specifications		
		BCA 2022 Part E2 Clause E2D8, E2D9 and		
4.	Automatic fire detection and alarm	Specification 20		
ч.	systems			
		AS1670.1-2018 (amendment 1)		
5.	Building occupant warning system	BCA 2022 Part E2 and Specification 20		
		BCA 2022 NSW E1D 4and Specification 17 and		
	Automatic fire suppression systems	Specification 18		
6.	(sprinklers) – Residential buildings (Class 2	AS 2118.1-2017 (amendment 1 & 2)		
0.	or 3) greater than three storeys	AS 2118.4-2012		
	Hotel building only.	FPAA101D		
		FPAA101H		
7.	Emergency lighting	BCA 2022 Clauses E4D2 and E4D4		
/.		AS/NZS 2293.1-2018 (amendment 1)		
8.	Exit signs	BCA 2022 Clauses E4D5, NSW E4D6 and E4D8		
0.		AS/NZS 2293.1-2018 (amendment 1)		
9.	Fire control centres	BCA 2022 Clause E1D15 and Specification 19		
10.	Fire dampers	BCA 2022 Clause C4D15		



	Proposed Fire Safety Measures				
	Fire Safety Measure	Standard of Performance			
		Manufacturer's Specification			
11.	Fire doors	BCA 2022 Clauses C4D9, C4D12 and Specification 12 AS 1905.1-2015			
12.	Fire hose reel systems	BCA 2022 Clause E1D3			
12.	Bowling club and carpark	AS 2441-2005 (amendment 1)			
13.	Fire hydrant systems	BCA 2022 Clause E1D2 AS 2419.1-2021			
14.	Fire seals protecting openings in fire- resisting components of the building	BCA 2022 Clause C4D15 AS 1530.4-2014 Manufacturer's Specification			
15.	Lightweight construction (fire rated)	BCA 2022 Clause C2D9 and Specification 6 Manufacturer's Specification			
16.	Mechanical air handling systems (automatic shutdown)	BCA 2022 Clause NSW E216 and Specification 20 AS 1668.1-2015 (amendment 1)			
17.	Portable fire extinguishers	BCA 2022 Clause E1D14 AS 2444-2001			
18.	Smoke and heat vents To the Class 9b areas Option for complying with NSW E2D19	BCA 2022 Part E2 and Specification 22 AS 1668.1-2018 (amendment 1)			
19.	Smoke exhaust systems To the Class 9b areas Option for complying with NSW E2D19	BCA 2022 Part E2 and Specification 21 AS 2665-2001			
20.	Smoke dampers	BCA 2022 Clause C3D6, Specification 17 and Clause E2D3			
21.	Smoke doors Hotel Building	BCA 2022 Clause C3D6, Specification 11 and Specification 12			
22.	Wall-wetting sprinkler and drencher systems over permanently closed or self- closing glazed elements (option for providing protection of openings)	BCA 2022 Clauses C4D3, C4D4 and C4D5 AS 2118.1-2017			
23.	Warning and operational signs	BCA 2022 Clauses D3D28 & E3D4 Environmental Planning and Assessment Regulation 2000 (EP&A Reg) Clause 183			
24.	Fire alarm monitoring	BCA 2022 Clause Part E2 and Specification 20 AS 1670.3-2018 (amendment 1)			
25.	Performance Solutions	TBA – Performance Solution to be carried out at the CC stage of the development			

*Note: existing fire safety systems subject to modification will need to be upgraded to meet current standards, except where exemptions are approved by the certifier.



Annexure C – Fire Resistance Levels

The following fire resistance levels (FRLs) are required for the various elements of the building. Where the table below refers to a fire source feature (FSF), this is as defined in the BCA as the far boundary of a road, river, lake or the like adjoining the allotment, or a side or rear boundary of the allotment, or an external wall of another building on the allotment which is not a Class 10 building.

Hotel Building			
Building Element – Type A Construction	Class 3 Hotel		
Loadbearing External Walls			
 Less than 1.5m from a FSF 	90/90/90		
- 1.5 - 3m from a FSF	90/60/60		
- 3m or more from a FSF	90/60/30		
Non-Loadbearing External Walls			
 Less than 1.5m from a FSF 	-/90/90		
- 1.5 - 3m from a FSF	-/60/60		
- 3m or more from a FSF	-/-/-		
External Columns (not incorporated into an external wall)			
- Loadbearing	90/-/-		
- Non-loadbearing	-/-/-		
Common Walls and Fire Walls	90/90/90		
Internal Walls - Fire resisting lift and stair shafts –			
- Loadbearing	90/90/90		
- Non-loadbearing	-/90/90		
Internal Walls – Bounding public corridors, public lobbies and			
the like –			
- Loadbearing	90/90/90		
- Non-loadbearing	-/60/60		
Internal Walls – Between or bounding sole-occupancy units –			
- Loadbearing	90/90/90		
- Non-loadbearing	-/60/60		
Internal Walls – Ventilating, pipe, garbage and the like shafts			
not used for the discharge of hot products of combustion –			
- Loadbearing	90/90/90		
- Non-loadbearing	-/90/90		
Other loadbearing internal walls, internal beams, trusses and columns	90/-/-		
Floors	90/90/90		
Roofs	90/60/30		



Bowling Club Building		
Building Element – Type B Construction	Class 5, 7a or 9	
Loadbearing External Walls		
- Less than 1.5m from a FSF	120/120/120	
- 1.5 - 3m from a FSF	120/90/60	
- 3 - 9m from a FSF	120/30/30	
- 9 - 18m from a FSF	120/30/-	
- 18m or more from a FSF	-/-/-	
Non-Loadbearing External Walls		
- Less than 1.5m from a FSF	-/120/120	
- 1.5 - 3m from a FSF	-/90/60	
- 3m or more from a FSF	-/-/-	
External Columns (not incorporated into an external wall)		
 Loadbearing less than 18m from a FSF 	120/-/-	
 Loadbearing more than 18m from a FSF 	-/-/-	
- Non-loadbearing	-/-/-	
Common Walls and Fire Walls	120/120/120	
Internal Walls - Fire resisting lift and stair shafts –		
- Loadbearing	120/120/120	
- Non-loadbearing	-/120/120	
Internal Walls – Bounding public corridors, public lobbies and the		
like –		
- Loadbearing	120/-/-	
- Non-loadbearing	-/-/-	
Internal Walls – Between or bounding sole-occupancy units –		
- Loadbearing	120/-/-	
- Non-loadbearing	-/-/-	
Other loadbearing internal walls and columns	120/-/-	



Annexure D – Sanitary Facility Calculations

The required number of sanitary facilities within the building has been calculated in accordance with table F4D4 of the BCA.

Required Number of Sanitary Facilities – Bowling Club - Staff					
Use		Occupant no.	Pan	Basin	Urinal
Bowling Club staff	Male	24	2 (up to 40 males)	1 (up to 30 males)	1 (up to 25 males)
Total staff: 48					
Class 9b – staff	Female	24	2 (up to 30 females)	1 (up to 30 females)	-

The above staff facilities are provided on the ground floor and comply.

Provided Number of Sanitary Facilities – Bowling Club - Patrons					
Use		Occupant no.	Pan	Basin	Urinal
Bowling Club staff class 9b function	Male	Up to 900 males	5 pans (up to 900 males)	12 (up to 2,200 males)	12 (5 urinals + 7 pans) (up to 950 males)
Up to 1,800 occupants total	Female	Up to 1,150 females	15 (up to 1,150 females)	13 (up to 2,350 females)	-

The number of existing sanitary facilities within the bowling club has not been shown on the architectural plans to enable a full assessment. However based on the occupant calculations, the above sanitary facilities will allow up to 655 occupants to the bowling green area.

Hotel Building Required Number of Sanitary Facilities – Level 5 function area					
Use		Occupant no.	Pan	Basin	Urinal
Level 5 Function area	Male	90 Allows up to	1 (up to 100 males)	2 (up to 200 males)	2 (up to 100 males)
Total patrons: 180	Female	100 males 90	3	2	-
Class 9b – Function rooms or the like		Allows up to 100 females	(up to 100 females)	(up to 150 females)	



Hotel Building Required Number of Sanitary Facilities – Staff					
Use		Occupant no.	Pan	Basin	Urinal
Class 3 & 9b Staff (total 14)	Male	6	1 (up to 20 males)	1 (up to 30 males)	0 (up to 10 males)
	Female	6	1 (up to 15 females)	1 (up to 30 females)	

The number of facilities provided on level 5 accommodates for the required number of facilities.

