



BCA CROWN CERTIFICATE

Pursuant to Section 6.28 of the Environmental Planning & Assessment Act 1979

CERTIFICATE No.:	CRO-22114
DATE OF CERTIFICATE:	17 March 2023
SUBJECT LAND:	
Lot & DP	Lot 2 DP 1043580
Address	5-39 Animoo Avenue Griffith NSW 2680
LOCAL GOVERNMENT AREA:	Griffith City Council
APPLICANT:	
Name	Arjuna Thiru Moorthy
Company	Health Infrastructure
Address	1 Reserve Road St Leonards NSW 2065
Phone/Email	Phone: (02) 9978 5402 Mobile: 0433 940 767 Email: Arjuna.thirumoorthy@health.nsw.gov.au
OWNER:	
Name	Health Administration Corporation
Address	1 Reserve Road St Leonards NSW 2065
Phone / Email	Phone: 02 9978 5402
PLANNING APPROVAL (WHERE APPLICABLE):	
SSD No.:	SSD-9838218
Date of Determination	14 October 2021

DESCRIPTION OF DEVELOPMENT:

Crown Certificate 3 Milestones 1 & 3 are to be undertaken which involve the Façade and Roofing works to the exclusion of all areas clouded; external wall areas associated with cavity barriers; and roof-top plant enclosures or fitout;

Scaffolding will be installed to the perimeter of the new build. Once the floor is stripped a structural stud perimeter wall with a galvanised solid sheet will be installed and fully sealed. This will allow early commencement of finishes inside. The plant rooms will be constructed, and services plant will be installed. The concrete roof slab will be waterproofed in a north to south direction and quality assurance checks will be in place to ensure the slab is 100% water tight including water testing of all areas. Windows will be installed from the inside of the building and both internally and sealed to the galvabond sheeting. The rain screen will be inspected for quality and water tests will be undertaken. Once accepted the Façade finishes will be installed behind the scaffold top down. Additional quality checks will be undertaken, and the scaffold will be removed one level at a time with the faced following to cover up holes from the scaffold ties.

In associated with the Griffith Base Hospital Redevelopment comprising of;

Design Finalisation & Construction of a new four-storey Clinical Services Building containing:

- Emergency department.
- Medical Imaging
- Outpatient Services to include clinics, allied health and rehabilitation, oncology, Hospital in the Home and renal.
- Pharmacy, pathology, medical records and administration facilities.
- Perioperative unit, critical care / intensive care unit.



- Maternity and birthing unit and Paediatric unit.
- Medical inpatient unit and Surgical inpatient unit.
- An aged care and rehabilitation inpatient unit.
- Main entry with retail café.
- Enclosed clinical pedestrian link to the adjoining St Vincent's Private Community Hospital and Non-Clinical Services Building.
- Demo of remaining buildings vacated and made redundant after commissioning of the new hospital, including required staging and temporary works.
- Construction of site works including roads, car parking and landscaping.
- Signage and wayfinding.
- Refurbishment of the current ACH building for Community Health purposes.

BCA CLASSIFICATION:

Class 5 & 9a

REFERENCED DOCUMENTATION:

As listed in Schedule 1

STATUTORY CERTIFICATION:

Pursuant to the provisions of Section 6.28 of the Environmental Planning and Assessment Act 1979, Blackett Maguire + Goldsmith Pty Ltd hereby certifies that the building works have been designed in accordance with the Building Code of Australia 2019 (Amdt 1), subject to the attached Conditions.

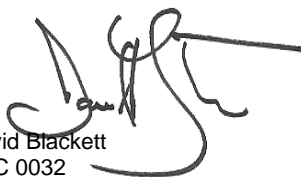
CONDITIONS:

As listed in Schedule 2

**PERSON UNDERTAKING CERTIFICATION
OF DESIGN ON BEHALF OF THE CROWN:**

SIGNATURE

Accredited Certifier in NSW
Accreditation No.


David Blackett
BDC 0032

Date: 17 March 2023



SCHEDULE 1

SCHEDULE OF DOCUMENTATION

+ Architectural Plans prepared by DJRD Architects:

DRAWING NUMBER	REV	DATE	DRAWING NUMBER	REV	DATE
130565-DJRD-AR-DWG-B36_20-0011	13	26.08.2022	130565-DJRD-AR-DWG-B36_20-0012	12	26.08.2022
130565-DJRD-AR-DWG-B36_20-0013	12	26.08.2022	130565-DJRD-AR-DWG-B36_20-0014	11	26.08.2022
130565-DJRD-AR-DWG-B36_20-0021	2	26.08.2022	130565-DJRD-AR-DWG-B36_20-0022	2	26.08.2022
130565-DJRD-AR-DWG-B36_20-0023	2	26.08.2022	130565-DJRD-AR-DWG-B36_20-0024	2	26.08.2022
130565-DJRD-AR-DWG-B36_20-0025	2	26.08.2022	130565-DJRD-AR-DWG-B36_20-0026	2	26.08.2022
130565-DJRD-AR-DWG-B36_20-0027	2	26.08.2022	130565-DJRD-AR-DWG-B36_41-0000	10	26.08.2022
130565-DJRD-AR-DWG-B36_41-0001	8	26.08.2022	130565-DJRD-AR-DWG-B36_41-0002	8	26.08.2022
130565-DJRD-AR-DWG-B36_41-0003	8	26.08.2022	130565-DJRD-AR-DWG-B36_41-0004	8	26.08.2022
130565-DJRD-AR-DWG-B36_41-0005	8	26.08.2022	130565-DJRD-AR-DWG-B36_41-0006	8	26.08.2022
130565-DJRD-AR-DWG-B36_41-0007	8	26.08.2022	130565-DJRD-AR-DWG-B36_41-0008	8	26.08.2022
130565-DJRD-AR-DWG-B36_41-0009	8	26.08.2022	130565-DJRD-AR-DWG-B36_41-0010	8	26.08.2022
130565-DJRD-AR-DWG-B36_41-0011	8	26.08.2022	130565-DJRD-AR-DWG-B36_41-0012	8	26.08.2022
130565-DJRD-AR-DWG-B36_41-0013	8	26.08.2022	130565-DJRD-AR-DWG-B36_41-0014	8	26.08.2022
130565-DJRD-AR-DWG-B36_41-0015	9	26.08.2022	130565-DJRD-AR-DWG-B36_41-0016	8	26.08.2022
130565-DJRD-AR-DWG-B36_41-0017	8	26.08.2022	130565-DJRD-AR-DWG-B36_41-0018	8	26.08.2022
130565-DJRD-AR-DWG-B36_41-0019	8	26.08.2022	130565-DJRD-AR-DWG-B36_41-0020	8	26.08.2022
130565-DJRD-AR-DWG-B36_41-0021	8	26.08.2022	130565-DJRD-AR-DWG-B36_41-0022	5	26.08.2022
130565-DJRD-AR-DWG-B36_41-0023	3	26.08.2022	130565-DJRD-AR-DWG-B36_41-0024	3	26.08.2022
130565-DJRD-AR-DWG-B36_41-0025	3	26.08.2022			

+ Other documents:

ITEM	DOCUMENTATION	PREPARED BY	DATE
1.	Application Form	Health Infrastructure	21 September 2022
2.	Architectural Design Certificate	DJRD Architects	26 August 2022
3.	Architectural Specification	DJRD Architects	26 August 2022
4.	Structural Design Certificate	ACOR Consultants	26 August 2022
5.	Section 68 Approval	Griffith City Council	21 September 2022
6.	Section J Part J1 JV3 Report	Engineering Lab NSW Pty Ltd	18 November 2022
7.	Acoustic Design Report	Engineering Lab NSW Pty Ltd	10 March 2022
8.	Structural Design Certificate	Acor Consultants	26 August 2022
9.	Hydraulic Design Certification	Acor Consultants	04 November 2022
10.	FP1.4 Weatherproofing Performance Solution Report	Surface Design	07 November 2022
11.	Façade Condensation Assessment	Surface Design	30 August 2022
12.	Façade Performance Specification	Surface Design	15 September 2022
13.	Construction Traffic Management Plan	PTC	11 October 2022
14.	Section 2.5.6 Compliance ESD Compliance Statement	E-Lab	8 March 2023
15.	External Walls Disclosure Statement & Appendix	DJRD	17 March 2023
16.	External Finishes Schedule	DJRD	26 August 2022
17.	Correspondence verifying all design reports are current based on Façade Product changes	ADCO	8 March 2023
18.	Structural Design Certificate - Façade Elements	Eclipse Consulting Engineers	16 March 2023



ITEM	DOCUMENTATION	PREPARED BY	DATE
19.	NER Structural Engineering Details - Facade Elements	Eclipse Consulting Engineers	Not Dated
20.	Package with Latest Package of Structural Drawings	ADCO	16 March 2023



SCHEDULE 2

CONDITIONS OF BCA CROWN CERTIFICATE

This Crown Certificate has been issued subject to the following conditions:

1. No approval is given nor implied for the construction of works beyond the scope specifically approved by the Crown Certificate 3 (Milestones 1 & 3 – Façade & Roofing). No approval is given for any fitout (such as washbasins, baths, water closets etc), or areas clouded on the architectural plans; this includes external wall areas associated with cavity barriers; and roof-top plant enclosures or fitout.
2. All architectural plans are to be issued in 'for construction' before construction commences for works associated with Crown Certificate 3 (Milestones 1 & 3 - Façade & Roofing).
3. This Crown Certificate does not certify compliance with the conditions of Development Consent. The building works should not commence until the Crown is satisfied that the conditions of development consent that are a pre-requisite to commencement have been appropriately addressed where relevant.
4. The following documents from BCA Stage 1 – Crown List R11 dated 17.03.2023 is required to be provided to the satisfaction of BM+G prior to any works commencing:

- a) **SSDA Conditions A19:** The external colours, materials and finishes of the building façade are to be consistent with the approved plans referenced in Condition A2. Any minor changes to the colour and finish of approved external materials to be approved by BM+G these minor changes being:
 - (i) The alternative colour/material is of a similar tone/shade and finish to the approved external colours/building materials;
 - (ii) The quality and durability of any alternative material is the same standard as the approved external building materials;

Note: A copy of any approved changes to the external colours and/or building materials is provided to be **submitted to the Planning Secretary** for information.

- b) **SSDA Conditions B3:** Provide copies of the structural drawings prepared and signed by a suitably qualified practising Structural Engineer (including PT by Interspan or complete façade by Eclipse Engineers) that demonstrates compliance with this development consent before commencement of works.
- c) **SSDA Conditions B4:** The building façade and external wall assemblies are to comply with the following:
 - (i) Product(s) to be tested by a Registered Testing Authority and/or CodeMark (or other suitable evidence under NCC Cl. A5.2) to demonstrate that that external walls (including insulation and external linings) satisfy NCC 2019 (Amdt 1) Clause C1.9(e) and DGN 032 requirements including AS1530.1-1994 testing criteria for non-combustibility;
 - (ii) Any coating to the metal sheet product(s) to be tested by a Registered Testing Authority and/or CodeMark to satisfy NCC 2019 (Amdt 1) requirements including AS1530.3-1999 testing criteria and compliance with the 'deemed' non-combustibility under NCC 2019 (Amdt 1) Cl. C1.9(e)(v) which requires the product to be:
 - A. Pre-finished metal sheeting having a coating/combustible surface finish not exceeding 1 mm thickness and where the Spread-of-Flame Index of the product is not greater than 0.
 - (iii) For sarking-type materials Clause C1.9(e) permits materials that do not exceed 1mm in thickness and have a Flammability-Index not greater than 5.
 - (iv) Renders specified for use in associated with the external wall or an ancillary element are to be non-combustible.

BM+G comments within Crown List R11 dated 17.03.2023 to be satisfied. Subsequently, provide evidence that the products and systems proposed for use or used in the construction of external walls, (including finishes and claddings such as synthetic or aluminium composite panels), comply with the requirements of the BCA has been submitted to the Planning Secretary.

- d) **SSDA Conditions B5:** Provide evidence verifying that the following Pre-Construction activities have occurred:
 - (i) Consult with the **relevant asset owner and utilities provider of services and infrastructure** that are likely to be affected by the development to make suitable arrangements for access to, diversion, protection and support of the affected infrastructure;
 - (ii) Prepare a Pre-Construction Dilapidation Report identifying the condition of all public (non-footpaths) that have potential to be affected;
 - (iii) Provide evidence that the Pre-Construction Dilapidation Report has been **submitted to the asset owner and Council**; and
 - (iv) Submit a copy of the Pre-Construction Survey Report to BM+G;
 - (v) Provide evidence that the Pre-Construction Dilapidation Report has been **submitted to the Planning Secretary** when requested.
- e) **SSDA Conditions B6:** Provide evidence verifying that the following Pre-Construction activities have occurred:



- (i) Preparation of Pre-construction Dilapidation reports are to comply with E-LAB Construction Noise and Vibration Management Sub-Plan R002 Dated 18.05.2022 Section 6 and pre-commencement conditions B5, B6, B7 & B8.
- (ii) Vibration monitoring is to be undertaken as follows:
 - A. Attended vibration monitoring shall be conducted at the commencement of work in order to verify the safe working distances.
 - B. If the levels are compliant with the vibration limits as listed in Section 4.2, then work may proceed based on the implementation of the measures detailed in this report.
 - C. If there are exceedances, reasonable and feasible mitigation measures and additional vibration monitoring should be conducted.
 - D. Measures to prevent cosmetic damage to surrounding structures are provided in Section 7.
- f) **SSDA Conditions B7:** Where the offer for a pre-construction survey is accepted (where required by Condition B6), the Applicant to arrange for a survey to be undertaken by a suitably qualified and experienced expert prior to the commencement of vibration generating works that could impact on the identified buildings.
- g) **SSDA Conditions B8:** Prior to the commencement of any vibration generating works that could impact on the buildings surveyed as required by Condition B7, the Applicant must:
 - (i) Provided a copy of the relevant survey to the owner of each residential building surveyed in the form of a Pre-Construction Survey Report
 - (ii) Submit a copy of the Pre-Construction Survey Report to BM+G;
 - (iii) Provide evidence that the Pre-Construction Survey Report has been **submitted to the Planning Secretary** when requested.
- h) **SSDA Condition B14:** Prior to the commencement of construction, demolition work plans are required and to be accompanied by a written statement from a suitably qualified person that the proposals contained in the work plan comply with the safety requirements of the Standard.

Note: The work plans and the statement of compliance are to be **submitted to BM+G and Planning Secretary.**
- i) **SSDA Condition B16:** Ensure to obtain Planning Secretary acceptance of the Construction Environmental Management Plan (CEMP) to satisfy B16.
- j) **SSDA Condition B27:** Provide evidence of **submission to the Planning Secretary** a Heritage Interpretation Strategy and Plan for the archaeology and Aboriginal history of the site.
- k) **SSDA Condition B30:** Provide evidence of the retirement of credits in satisfaction of Condition B28 or payment to the Biodiversity Conservation Fund to **be provided to the Planning Secretary.**
- l) **SSD Condition C25:** The NER Civil Engineer's stormwater management system design for the development is to be submit to the satisfaction of the Water Authority/Council.
- m) **CC Condition 14:** NER Structural Engineering design certification prepared by Eclipse Consulting Engineers only covers façade elements relating to Ground and First Floor.

Crown Certificate No.3 is conditional that all elements of the structure, not covered by the Acor or Interspan certification, must be certified in design by an NER Structural Engineer and that certification/details be provided (and accepted) by BM+G before the relevant works commence; this includes façade elements relating to all parts of the building other than Ground and First Floor.

- 5. Demolition works are to be undertaken in accordance with the documentation listed in Schedule 1 & AS 2601-2001.
- 6. There is to be no impact, disruption, impediment or modification to existing active or passive fire safety systems or egress arrangements within the existing hospital building as a direct or indirect result of the proposed works without prior consultation and approval by the LHD (as applicable) and the crown certifier (BM+G).
- 7. All building works associated with the subject development are to be carried out in accordance with the requirements of the Blackett Maguire + Goldsmith BCA Assessment Report Revision 10 dated 21 December 2022.
- 8. Where the proposed demolition works necessitate the isolation and/or decommissioning of any existing fire services, particularly the fire hydrant system or the sprinkler system, then Fire & Rescue NSW and any relevant insurance providers should be notified prior to de-commissioning and/or isolation of the system.
- 9. All building works associated with the subject development are to be carried out in accordance with the approved documentation listed above in Schedule 1.

Any departure from the documentation cannot be undertaken without the review and approval by Blackett Maguire + Goldsmith.
- 10. Where there is any conflict between the Design Documentation and the advice provided by Blackett Maguire + Goldsmith, the advice issued takes precedence unless approved by Blackett Maguire + Goldsmith.
- 11. Any changes to the Architectural Documentation that may affect compliance with the Building Code of Australia or the referenced Australian Standards are to be appropriately disclosed to Blackett Maguire + Goldsmith for review.
- 12. Blackett Maguire + Goldsmith are to be contacted throughout the project for routine site inspections to ensure that the works are being carried out in accordance with the approved documentation.

Advisory Notes



1. The head contractor is to obtain any relevant Approvals required by Griffith Council/Water Authority including the s.68 approval (or modifications thereto) prior to the commencement of works.



SCHEDULE 3

FIRE SAFETY SCHEDULE

Issued under cl. 78 of the Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2021

ADDRESS:	5-39 Animoo Avenue, Griffith NSW 2680
OWNER	Health Administration Corporation
BCA CROWN CERTIFICATE No.:	CRO-22114

The following essential fire safety measures shall be implemented in the whole of the building premises and each of the fire safety measures must satisfy the standard of performance listed in the schedule, which, for the purposes of Clause 78 of the Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2021, is deemed to be the current fire safety schedule for the building.

SCHEDULE

Statutory Fire Safety Measure	Design / Installation Standard	Existing	New / Altered
<u>NEW CLINICAL SERVICES BUILDING (BUILDING 36)</u>			
Access Panels, Doors & Hoppers	BCA 2019 (Amdt 1) Clause C3.13, AS 1530.4 – 2014 & Manufacturer's specifications		✓
Alarm Signalling Equipment	BCA 2019 (Amdt 1) Spec. E2.2a Clause 8 & AS 1670.3 – 2018		✓
Automatic Fail-Safe Devices	BCA 2019 (Amdt 1) Clause D2.21		✓
Automatic Fire Detection & Alarm System	BCA 2019 (Amdt 1) Spec. E2.2a AS 1670.1 – 2018		✓
Automatic Fire Suppression Systems (Residential Heads to Patient Care Areas only)	BCA 2019 (Amdt 1) Clause E1.5, Spec. E1.5 AS 2118.1 – 2017 & AS 2118.6 – 2012		✓
Building Occupant Warning System activated by the Sprinkler System & Detection System	BCA 2019 (Amdt 1) Spec. E1.5, Clause 8 & AS 1670.1 – 2018, Clause 3.22		✓
Emergency Lifts	BCA 2019 (Amdt 1) Clause E3.4, AS 1735.2 – 2001		✓
Emergency Lighting	BCA 2019 (Amdt 1) Clause E4.2, E4.4 & AS 2293.1 – 2018		✓
Emergency Evacuation Plan	AS 3745-2010		✓
Exit Signs	BCA 2019 (Amdt 1) Clauses E4.5, E4.6 & E4.8 & AS 2293.1 – 2018		✓
Fire Blankets	BCA 2019 (Amdt 1) Clause E1.6, AS 3504 – 2006 & AS 2444 – 2001		✓
Fire Dampers	BCA 2019 (Amdt 1) Clause C3.15 & Spec. C2.5, AS 1668.1 – 2015 & AS 1682.1 & 2 – 2015 & Manufacturer's specifications		✓
Fire Doors	BCA 2019 (Amdt 1) Clauses C2.12, C2.13, C3.5, C3.7, C3.8, AS 1905.1 – 2015 & Manufacturer's specifications		✓
Fire Hose Reels	BCA 2019 (Amdt 1) Clause E1.4 AS 2441 – 2005		✓



Statutory Fire Safety Measure	Design / Installation Standard	Existing	New / Altered
Fire Hydrant Systems	BCA 2019 (Amdt 1) Clause E1.3, AS 2419.1 – 2005, & AS 2118.6 – 2012		✓
Fire Rated Elements Loadbearing (Concrete or Masonry)	BCA 2019 (Amdt 1) Spec. C1.1		✓
Fire Seals	BCA 2019 (Amdt 1) Clause C3.15, AS 1530.4 – 2014 & AS 4072.1 – 2005 & Manufacturers' specifications		✓
Lightweight Construction	BCA 2019 (Amdt 1) Clause C1.8, AS 1530.4 – 2014 & Manufacturer's specifications		✓
Fire Compartments, Walls & Floors	BCA 2019 (Amdt 1) Spec. C1.1		✓
Manual Call Points	BCA 2019 (Amdt 1) Section E		✓
Mechanical Air Handling Systems (automatic shutdown)	BCA 2019 (Amdt 1) Clause E2.2, AS/NZS 1668.1 – 2015 & AS 1668.2 – 2012		✓
Paths of Travel	EP&A (DC&FS) Reg. 2021 Clause 109 & BCA Part D		✓
Portable Fire Extinguishers	BCA 2019 (Amdt 1) Clause E1.6 AS 2444 – 2001		✓
Pressurising Systems (Fire Isolated Stairways and associated Passageways)	BCA 2019 (Amdt 1) Clause E2.2, AS/NZS 1668.1 – 2015, & AS 1668.2 – 2012		✓
Required Exit Doors (power operated)	BCA 2019 (Amdt 1) Clause D2.19(b)		✓
Self-Closing Fire Hoppers	BCA 2019 (Amdt 1) Clause C3.13 & AS 1530.4 – 2014		✓
Smoke Dampers	BCA 2019 (Amdt 1) Part E, AS/NZS 1668.1 – 2015, AS 1682.1 & 2 – 2015, Manufacturer's specifications		✓
Smoke Compartments, Walls & Floors	BCA 2019 (Amdt 1) Clause C2.5, Spec. C2.5, C3.4, Spec C3.4		✓
Smoke Doors	BCA 2019 (Amdt 1) Clause C2.5, Spec. C2.5, C3.4, Spec C3.4		✓
Smoke Seals	Spec C3.4		✓
Sound System & Intercom Systems for Emergency Purposes (SSISEP)	BCA 2019 (Amdt 1) Clause E4.9 & AS 1670.4 – 2018		✓
Stand-by Power Systems	BCA 2019 (Amdt 1) Clauses E1.3, E3.4, E4.2 & E4.5 & AS 3000 – 2018		✓
Wall-Wetting Sprinklers	BCA 2019 (Amdt 1) Clause C3.4 AS 2118.2 – 2010		✓
Warning & Operational Signs	EP&A (DC&FS) Reg. 2021 Clause 108, BCA 2019 (Amdt 1) Clause D2.23, D3.6, E3.3 & AS 1905.1 – 2015		✓
COMMUNITY HEALTH BUILDING (CHB) (BUILDING 33)			
Alarm Signalling Equipment (via existing main FIP)	AS 1670.3 – 2004	✓	
Automatic Fail-Safe Devices	BCA Clause D2.21	✓	
Automatic Fire Detection & Alarm System	BCA Spec. E2.2a	✓	



	AS 1670.1 – 2015 & Fire Engineering Report No. SY180432 Rev R1.0 prepared by Warringtonfire dated 2 August 2019		
Emergency Lighting	BCA Clause E4.4 AS 2293.1 – 2005	✓	
Emergency Evacuation Plan	AS 3745 - 2002	✓	
Exit Signs	BCA Clauses E4.5, E4.6 & E4.8 AS 2293.1 – 2005	✓	
Fire Dampers	BCA Clause C3.15 AS/NZS 1668.1 – 2015 & AS 1682.1 & 2 – 2015	✓	
Fire Doors.	BCA Clause C2.12, C2.13, C3.5, C3.7, C3.8 AS 1905.1 – 2005	✓	
Fire Hose Reels	BCA Clause E1.4 AS 2441 – 2005 & Fire Engineering Report No. SY180432 Rev R1.0 prepared by Warringtonfire dated 2 August 2019	✓	
Fire Hydrant Systems	BCA Clause E1.3 AS 2419.1 - 2005	✓	
Fire Seals	BCA Clause C3.15 AS 1530.4 – 2005 & AS 4072.1 – 2005 Manufactures Specifications	✓	
Fire Resisting Construction	BCA Section C & Fire Engineering Report No. SY180432 Rev R1.0 prepared by Warringtonfire dated 2 August 2019	✓	
Lightweight Construction	BCA Clause C1.8, AS 1530.4 – 2014 & Fire Engineering Report No. SY180432 Rev R1.0 prepared by Warringtonfire dated 2 August 2019	✓	
Manual Call Points	BCA Section E	✓	
Mechanical Air Handling Systems (automatic shutdown)	BCA Clause E2.2 AS/NZS 1668.1 – 2015 & AS 1668.2 – 2012	✓	
Paths of Travel	EP & A Regulation Clause 186	✓	
Portable Fire Extinguishers	BCA Clause E1.6 AS 2444 – 2001 & Fire Engineering Report No. SY180432 Rev R1.0 prepared by Warringtonfire dated 2 August 2019	✓	
Required Exit Doors (power operated)	BCA Clause D2.19(d)	✓	
Smoke Dampers	AS/NZS 1668.1 – 2015 & AS 1682.1 & 2 – 2015	✓	
Smoke Seals	BCA Spec. C3.4	✓	
Sound System & Intercom System for Emergency Purposes	BCA Clause E4.9 AS 1670.4 - 2015	✓	
Warning & Operational signs	BCA Clause D2.23. Section 183 of the EP & A Regulations 2000, AS1905.1 – 2005	✓	
<u>INTENSIVE CARE UNIT (ICU) (BUILDING 1)</u>			
Access Panels, Doors & Hoppers	BCA Clause C3.13	✓	



	AS 1530.4 – 2005		
Alarm Signalling Equipment (via existing main FIP)	AS 1670.3 – 2004	✓	
Automatic Fail-Safe Devices	BCA Clause E2.2a, D2.21, AS1668.1, AS1670.1, AS1905, AS4178	✓	
Automatic Fire Detection & Alarm System	Ord 70.27.4, CA.15, AS1670& BCA Spec. E2.2a AS 1670.1 – 2015 & Fire Engineering Report No. SY180432 Rev R1.0 prepared by Warringtonfire dated 2 August 2019	✓	
Emergency Lighting	BCA Clause E4.2, E4.4, & AS 2293.1 & AS 2293.1 – 2005	✓	
Emergency Evacuation Plan	AS 3745 - 2002	✓	
Emergency Warning Intercom System (EWIS)	BCA Spec E2.2a, E4.9 and AS2220.1	✓	
Exit Signs	BCA Clauses E4.5, E4.6 & E4.8 AS 2293.1 – 2005	✓	
Fire Blankets	AS3504, AS2444	✓	
Fire Dampers	BCA Clause C3.15 AS/NZS 1668.1 & AS 1682.1 & 2 & AS/NZS 1668.1 – 2015 & AS 1682.1 & 2 – 2015	✓	
Fire Doors.	Ord 70.22.7 CA 15, BCA Spec C3.4, AS1905.1	✓	
Fire Doors.	BCA Clause C2.12, C2.13, C3.5, C3.7, C3.8 AS 1905.1 – 2005	✓	
Fire Hose Reels	Ord 70.27.2 Min Spec 10 & BCA Clause E1.4 AS 2441 – 2005 & Fire Engineering Report No. SY180432 Rev R1.0 prepared by Warringtonfire dated 2 August 2019	✓	
Fire Hydrant Systems	Ord 70.27.3 Min Spec 10 & BCA Clause E1.3 AS 2419.1 - 2005	✓	
Fire Seals	BCA Clause C3.15 AS 1530.4 & AS 4072.1 Manufacturers Specifications	✓	
Fire Seals	BCA Clause C3.15 AS 1530.4 – 2005 & AS 4072.1 – 2005 Manufacturers Specifications	✓	
Fire Walls	BCA Spec. C1.1	✓	
Lightweight Construction	BCA Clause E1.8, C1.8, AS 1530.4 & BCA Clause E1.8, C1.8, AS 1530.4 – 2014 & Fire Engineering Report No. SY180432 Rev R1.0 prepared by Warringtonfire dated 2 August 2019	✓	
Manual Call Points	BCA Section E	✓	
Mechanical Air Handling Systems (automatic shutdown)	BCA Clause E2.2 AS/NZS 1668.1 – 2015 & AS 1668.2 – 2012	✓	
Paths of Travel	EP & A Regulation Clause 186	✓	
Perimeter Vehicular Access	BCA Clause C2.3, C2.4	✓	
Portable Fire Extinguishers	BCA Clause E1.6 & AS 2444 & BCA Clause E1.6	✓	



	AS 2444 – 2001 & Fire Engineering Report No. SY180432 Rev R1.0 prepared by Warringtonfire dated 2 August 2019		
Required Exit Doors (power operated)	BCA Clause D2.19(d)	✓	
Smoke Dampers	AS/NZS 1668.1 – 2015 & AS 1682.1 & 2 – 2015	✓	
Smoke Doors	BCA Spec.C2.5 & C3.4	✓	
Smoke Seals	BCA Spec. C3.4	✓	
Smoke Walls	BCA Spec. C2.5	✓	
Sound System & Intercom System for Emergency Purposes	BCA Clause E4.9 AS 1670.4 - 2015	✓	
Stand-by Power Systems	AS/NZS3009	✓	
Wall-wetting sprinklers	BCA Clause C3.4 AS 2118.2 – 2010	✓	
Warning & Operational signs	BCA Clause D2.23. Section 183 of the EP & A Regulations 2000, AS1905.1 – 2005	✓	
IN PATIENT UNIT (IPU) (BUILDING 2)			
Access Panels, Doors & Hoppers	BCA Clause C3.13 AS 1530.4 – 2005	✓	
Alarm Signalling Equipment (via existing main FIP)	AS 1670.3 – 2004	✓	
Automatic Fail-Safe Devices	BCA Clause E2.2a, D2.21, AS1668.1, AS1670.1, AS1905, AS4178 BCA Clause D2.21	✓	
Automatic Fire Detection & Alarm System	Ord 70.27.4, CA.15, AS1670 & BCA Spec. E2.2a AS 1670.1 – 2015 Ord 70.27.4, CA.15, AS1670	✓	
Emergency Lighting	BCA Clause E4.2, E4.4 & AS 2293.1 AS 2293.1 – 2005	✓	
Emergency Evacuation Plan	AS 3745 - 2002	✓	
Emergency Warning Intercom System (EWIS) (existing)	BCA Spec E2.2a, E4.9 and AS2220.1	✓	
Exit Signs	BCA Clauses E4.5, E4.6 & E4.8 AS 2293.1 – 2005	✓	
Fire Blankets	AS3504, AS2444	✓	
Fire Dampers	BCA Clause C3.15 AS/NZS 1668.1 & AS 1682.1 & 2, AS/NZS 1668.1 – 2015 & AS 1682.1 & 2 – 2015	✓	
Fire Doors.	Ord 70.22.7 CA 15, BCA Spec C3.4, AS1905.1 & BCA Clause C2.12, C2.13, C3.5, C3.7, C3.8 AS 1905.1 – 2005	✓	
Fire Hose Reels	Ord 70.27.2 Min Spec 10, BCA Clause E1.4 AS 2441 – 2005	✓	
Fire Resistance Levels (External Wall System)	Ord 70.27.3 Min Spec 10, Performance - Fire Engineering Report No. SY180432 Rev R1.0	✓	



	<p>prepared by Warringtonfire dated 2 August 2019 including:</p> <p>External walls including all components incorporated within them must be non-combustible in accordance with clause C1.9 of the NCC unless otherwise specified in the report.</p> <p>The sarking material incorporated in the external wall systems of the ICU and IPU expansion must not be more than 1mm in thickness and have a flammability index no greater than 5.</p>		
Fire Seals	<p>BCA Clause C3.15</p> <p>AS 1530.4 & AS 4072.1,</p> <p>AS 1530.4 – 2005 & AS 4072.1 – 2005</p> <p>Manufacturers Specifications</p>	✓	
Lightweight Construction	<p>BCA Clause E1.8, C1.8, AS 1530.4, BCA Clause C1.8, AS 1530.4 – 2014</p>	✓	
Manual Call Points	<p>BCA Section E</p>	✓	
Mechanical Air Handling Systems (automatic shutdown)	<p>BCA Clause E2.2</p> <p>AS/NZS 1668.1 – 2015 & AS 1668.2 – 2012</p>	✓	
Paths of Travel	<p>EP & A Regulation Clause 186</p>	✓	
Perimeter Vehicular Access	<p>BCA Clause C2.3, C2.4</p>	✓	
Portable Fire Extinguishers	<p>BCA Clause E1.6 & AS 2444</p> <p>AS 2444 – 2001</p>	✓	
Required Exit Doors (power operated)	<p>BCA Clause D2.19(d)</p>	✓	
Sound System & Intercom System for Emergency Purposes	<p>BCA Clause E4.9</p> <p>AS 1670.4 - 2015</p>	✓	
Stand-by Power Systems	<p>AS/NZS3009</p>	✓	
Warning & Operational signs	<p>BCA Clause D2.23.</p> <p>Section 183 of the EP & A Regulations 2000,</p> <p>AS1905.1 – 2005</p>	✓	

INTENSIVE CARE UNIT (ICU) (BUILDING 1), IN PATIENT UNIT (IPU) (BUILDING 2) & COMMUNITY HEALTH BUILDING (CHB) (BUILDING 33)

Summary of Existing Fire Engineered Performance Solutions
Fire Engineering Report No. SY180432 Rev 1.0 dated 2 August 2019 prepared by Warringtonfire

Performance Solution	Standard of Performance	Existing	New / Altered
1. The new external walls of the IPU and ICU expansions include sarking material that is combustible.	CP2 & CP4	✓	
2. The following loadbearing elements of the ICU expansion achieve a 1- hour fire rating instead of 2 hours: <ul style="list-style-type: none"> Columns within external walls of the ground floor expansion External columns on the lower ground floor which support the expansion 	CP1 & CP2	✓	
3. A number of smoke doors within the ACH swing against the direction of egress	DP2 & DP4	✓	
4. Portable fire extinguishers will be provided to the existing waiting room within the ICU in lieu of fire hose reel coverage.	EP1.1	✓	



SCHEDULE 4

INSPECTION REQUIREMENTS

REQUIRED INSPECTIONS

Please ensure that our office is contacted to undertake the following inspections throughout the construction program:

- + Completion of smoke proof walls prior to installation of ceiling.
- + Completion of fire rated walls prior to installation of ceiling.
- + Installation of concealed essential fire safety measures prior to covering.
- + Preliminary Final Inspection and onsite testing of all active fire safety systems. Prior to completion of building works.
- + After the building works has been completed.