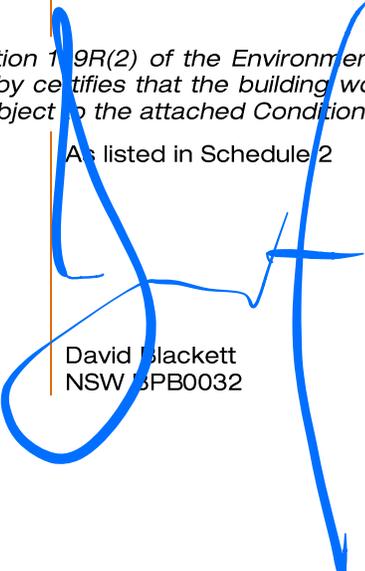




BCA CROWN CERTIFICATE

Pursuant to Section 109R of the Environmental Planning & Assessment Act 1979

CERTIFICATE NO.:	CRO-18036
DATE OF CERTIFICATE:	28 May 2018
SUBJECT LAND:	
Lot & DP	Lot 12 DP 1159243
Address	Myall Street Dubbo NSW 2830
LOCAL GOVERNMENT AREA:	Dubbo Regional Council
APPLICANT:	
Name	Sasha Vuckovic
Company	Hansen Yuncken
Address	Sydney Corporate Park, Building 1, L3 75-85 O'Riordan Street Alexandria NSW 2015
Phone/Email	Phone: 9770 7600 Email: svuckovic@hansenyuncken.com.au
OWNER:	
Name	NSW Health Infrastructure
PLANNING APPROVAL (WHERE APPLICABLE):	
DA No.:	SSD 7720
Date of Determination	12 December 2017
DESCRIPTION OF DEVELOPMENT:	Crown Certificate #2: In-ground services and slab on ground <u>only</u> ; associated with the construction of the Dubbo Base Hospital Redevelopment Stage 4.
BCA CLASSIFICATION:	Class 9a
REFERENCED DOCUMENTATION:	As listed in Schedule 1
STATUTORY CERTIFICATION:	
	<i>Pursuant to the provisions of Section 109R(2) 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 2016, subject to the attached Conditions.</i>
CONDITIONS:	As listed in Schedule 2
PERSON UNDERTAKING CERTIFICATION OF DESIGN ON BEHALF OF THE CROWN:	
SIGNATURE	
Name	David Blackett
Accreditation No.	NSW 13PB0032
	Date: 28 May 2018



SCHEDULE 1

SCHEDULE OF DOCUMENTATION

+ Architectural Plans prepared by HDR:

DRAWING NUMBER	REV	DATE	DRAWING NUMBER	REV	DATE
AR-4-20011	A	19.03.18	AR-4-20013	A	19.03.18
AR-4-20012	A	19.03.18	AR-4-20014	A	19.03.18

+ Other documents:

ITEM	DOCUMENTATION	PREPARED BY	DATE
1.	Application Form	Hansen Yuncken	23 November 2017
2.	Annual Fire Safety Statement	Dubbo Base Hospital	30 June 2017
3.	Interim Building Completion Certificate	BCA Logic Pty Ltd	19 November 2015
4.	Receipt of Payment – Long Service Levy – Receipt No. 00319938	Long Service Corporation	5 February 2018
5.	Structural Report	Hansen Yuncken	18 January 2018
6.	Construction Environmental Management Plan	Hansen Yuncken	25 January 2018
7.	Construction Noise & Vibration Management Plan	Wood & Grieve Engineers	20 February 2018
8.	Construction Waste Management Plan	Demex	19 February 2018
9.	Construction Traffic Management Plan	GTA Consultants	1 March 2018
10.	Pre-Construction Compliance Report	Hansen Yuncken	22 February 2018
11.	Campus Map	Hansen Yuncken	Undated
12.	Letter to Council regarding Archival Record Report	Savills Project Management	21 February 2018
13.	Letter to Office of Environment and Heritage regarding Archival Record Report	Savills Project Management	22 February 2018
14.	Interpretation Building Plan	Adaptive Architects Pty Ltd	12 February 2018
15.	Interpretation Plan	Adaptive Architects Pty Ltd	February 2018
16.	Email regarding community enquiries and complaints	Hansen Yuncken	8 March 2018
17.	Council approval of the Interpretation Plan	Dubbo Regional Council	15 February 2018
18.	Design Certificate – Ground floor slab	HDR	30 April 2018
19.	Architectural Specification – Building works	HDR	3 July 2017
20.	Structural Certification	Enstruct Group Pty Ltd	24 April 2018
21.	Civil Certification	Enstruct Group Pty Ltd	24 April 2018
22.	Electrical Certification	Jacobs	25 May 2018



SCHEDULE 2

CONDITIONS OF S.109R BCA CROWN CERTIFICATE

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

1. 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.
2. All building works associated with the subject development are to be carried out in accordance with the approved documentation listed above in Schedule 1.
3. 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.
4. 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).



SCHEDULE 3

FIRE SAFETY SCHEDULE

Issued under Clause 168 of the Environmental Planning & Assessment Regulation 2000

ADDRESS:	Dubbo Hospital Stage 4 Redevelopment – Myall Street, Dubbo
OWNER	NSW Health Infrastructure
BCA CROWN CERTIFICATE No.:	CRO-18036

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 168 of the Environmental Planning and Assessment Regulation 2000, is deemed to be the current fire safety schedule for the building.

SCHEDULE

Statutory Fire Safety Measure	Design / Installation Standard	Existing	New/ Altered
Access Panels, Doors & Hoppers	BCA Clause C3.13 & AS 1530.4 – 2005 and Manufacturer's specifications	✓	✓
Alarm Signalling Equipment	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 Ref: 103532-FER-r1.5, Addendum 1, dated 6/10/15, prepared by BCA Logic Pty Ltd, and Fire Engineering Report Ref: 16059-R02, issue 2, dated 19/9/17, prepared by Innova Services	✓	✓
Automatic Fire Suppression Systems (Sprinklers)	BCA Spec. E1.5 & AS 2118.1 – 1999 and Fire Engineering Report Ref: 103532-FER-r1.5, Addendum 1, dated 6/10/15, prepared by BCA Logic Pty Ltd and Correspondence dated 18 November 2015 issued by Extinguished (NSW) Fire Pty Ltd	✓	✓
Building Occupant Warning System activated by the Sprinkler System	BCA Spec. E1.5, Clause 8 and Clause 3.22 of AS 1670.1 – 2015	✓	✓
Emergency Lifts	BCA Clause E3.4 & AS 1735.2 – 2001	✓	✓
Emergency Lighting	BCA Clause E4.4 & AS 2293.1 – 2005	✓	✓
Emergency Evacuation Plan	AS3745 – 2010 'Planning for Emergencies In Facilities', AS4083 – 1997 'Planning for Emergencies In Facilities', Fire Engineered Alternate Solution Prepared by BCA Logic Pty Ltd Ref No 103532-FER-r1.5 dated 6th July 2015, and Fire Engineering Report Ref: 16059-R02, issue 2, dated 19/9/17, prepared by Innova Services	✓	✓
Exit Signs	BCA Clauses E4.5, E4.6 & E4.8; and AS 2293.1 – 2005	✓	✓
Fire Control Centre	BCA Spec E1.8	✓	
Fire Dampers	BCA Clause C3.15, AS 1668.1 – 2015 & AS 1682.1 & 2 – 2015 and manufacturer's specification	✓	✓



Statutory Fire Safety Measure	Design / Installation Standard	Existing	New/ Altered
Fire Doors	BCA Clause C2.12, C2.13, C3.2, C3.4, C3.5, C3.7, C3.8, AS 1905.1 – 2005, manufacturer's specification, and Fire Engineering Report Ref: 16059-R02, issue 2, dated 19/9/17, prepared by Innova Services	✓	✓
Fire Hose Reels	BCA Clause E1.4 & AS 2441 – 2005	✓	✓
Fire Hydrant Systems	BCA Clause E1.3 & AS 2419.1 – 2005 and Northrop Correspondence dated 28th October 2013	✓	✓
Fire Seals	BCA Clause C3.15, AS 1530.4 & AS 4072.1 – 2005 and manufacturer's specification	✓	✓
Lightweight Construction	BCA Clause C1.8 & AS 1530.4-2014 and manufacturer's specification and Fire Engineering Report Ref: 103532-FER-r1.5, Addendum 1, dated 6/10/15, prepared by BCA Logic Pty Ltd	✓	✓
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, Fire Engineering Report Ref: 103532-FER-r1.5, Addendum 1, dated 6/10/15, prepared by BCA Logic Pty Ltd, and Fire Engineering Report Ref: 16059-R02, issue 2, dated 19/9/17, prepared by Innova Services	✓	✓
Portable Fire Extinguishers	BCA Clause E1.6 & AS 2444 – 2001 and Fire Engineering Report Ref: 103532-FER-r1.5, Addendum 1, dated 6/10/15, prepared by BCA Logic Pty Ltd	✓	✓
Smoke Dampers	AS/NZS 1668.1 – 2015	✓	✓
Smoke Doors	BCA Spec C3.4, C2.5 & Fire Engineering Report Ref: 16059-R02, issue 2, dated 19/9/17, prepared by Innova Services	✓	✓
Smoke Hazard Management Systems (stair pressurisation)	BCA Part E2 & AS/NZS 1668.1 –2015		✓
Smoke Walls (a part of the external wall)	Fire Engineering Report Ref: 16059-R02, issue 2, dated 19/9/17, prepared by Innova Services	✓	
Sound System & Intercom Systems for Emergency Purposes (SSISEP)	BCA E4.9 and AS1670.4-2015	✓	✓
Wall-Wetting Sprinkler and Drencher Systems	BCA Clause C3.4 & AS 2118.2 – 2010, Fire Engineered Alternate Solution Prepared by BCA Logic Pty Ltd Ref No 103532-FER-r1.5 dated 6th July 2015, and Fire Engineering Report Ref: 16059-R02, issue 2, dated 19/9/17, prepared by Innova Services	✓	✓
Warning & Operational Signs	Section 183 of the EP&A Regulation 2000, AS 1905.1 – 2005, BCA Clause D2.23, D3.6, E3.3 & Fire Engineering Report Ref: 16059-R02, issue 2, dated 19/9/17, prepared by Innova Services	✓	✓



Statutory Fire Safety Measure	Design / Installation Standard	Existing	New/ Altered
<p>Stage 1 and 2: Fire Engineering Report Ref: 103532-FER-R1.5, Addendum 1, dated 6/10/15, prepared by BCA Logic Pty Ltd:</p> <ol style="list-style-type: none"> 1. Discharge Path from Fire Stairs and exits (Existing Maternity IPU and Paediatrics IPU egress other than via Courtyard and Fire Lock) 2. Signage & Use of Ground Floor Staff Room 3. Signage to and from 'Fire Lock' 4. Enclosed Pedestrian Link – Fire Load 5. Fire and Smoke walls 6. Non rated External Steel columns to level 1 Hospital Street Link 7. Alpolic Cladding Material 8. Mechanical Air Handling Systems (including Auto Shut Down of air handling system other than Operating Theatres, CSD and Sterile Corridor that have independent shut down systems) 	<p>Fire Engineering Report Ref: 103532-FER-R1.5, Addendum 1, dated 6/10/15, prepared by BCA Logic Pty Ltd</p>	<p>✓</p>	
<p>Stage 3: Fire Engineering Report Ref: 16059-R02, issue 2, dated 19/9/17, prepared by Innova Services:</p> <ol style="list-style-type: none"> 1. To have the load bearing columns within the external walls of the new Surgical IPU on the top storey (i.e. level 2) achieve a 1 hour fire rating, in lieu of 2 hours. 2. To not have the fire walls extend to the cladding of the external walls of the building where the façade 'steps out' to create window reveals in Surgical IPU. 3. To utilize a composite external wall cladding material as an attachment to parts of the external walls to the building, where the cladding material will comprise a combustible core. 4. To have a number of required fire and smoke doors in Surgical IPU swing in one direction only against the direction of egress, in lieu of swinging in both directions or in the direction of egress. 5. To vary the method of protection afforded to openings within the external walls of the building that will be exposed to an external wall of an adjacent fire compartment within the same building. 6. To have copper medical gas lines penetrate through fire rated elements. 7. To retain the following widths in paths of travel: <ul style="list-style-type: none"> + The existing access stairway adjacent to the lift within the 	<p>Fire Engineering Report Ref: 16059-R02, issue 2, dated 19/9/17, prepared by Innova Services</p>	<p>✓</p>	



Statutory Fire Safety Measure	Design / Installation Standard	Existing	New/ Altered
<p>Stage 3C building where the stairway will have an unobstructed width of 750mm following the installation of handrails, in lieu of at least 1m.</p> <p>+ To retain openings in the Rec Store and Reception area to have clear width of 750mm in lieu of 1000mm.</p> <p>8. To not protect the glazed openings to the corridor within the Surgical IPU on level 2 that will be located within 6m of an external stairway.</p> <p>9. To have the path of travel from the southern external stairway require travel back through the building prior to reaching an open space (exacerbation for BCA Logic performance solution).</p> <p>10. To have egress from a fire compartment on level 2 Surgical IPU require egress through another smaller fire compartment (within the plant room), in lieu of direct egress into a required exit stairway.</p>			
<p>Stage 4: Fire Engineering Report</p>	<p><i>To be advised</i></p>		<p>✓</p>



SCHEDULE 4

INSPECTION REQUIREMENTS

REQUIRED INSPECTIONS

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

- + 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.

28 May 2018

The Director- General
The Department of Planning & Environment
GPO Box 39
SYDNEY NSW 2001

Dear Sir / Madam,

**REFERENCE: DA NO. SSD 7720
DUBBO HOSPITAL STAGE 4 REDEVELOPMENT
MYALL STREET, DUBBO
CROWN CERTIFICATION - CC2**

Provided undercover for The Department's information a copy of the s.109R Crown Certificate No. CRO-18036. This letter is notice that the following application for a s.109R Certificate has now been approved for the proposed in-ground services and slab on ground only; associated with the construction and operation of the Dubbo Base Hospital Redevelopment Stage 4.

Applicant: Hansen Yuncken
Subject Address: Dubbo Hospital - Stage 4 Redevelopment - Myall Street, Dubbo
Date Received: 22 May 2018
Date Determined: 28 May 2018

We have also enclosed a copy of the following for The Department's record:

- + Application form;
- + Fire Safety Schedule; and
- + Referenced documentation as indicated on the Crown Certificate.

We note that as this submission is for The Department's information only no payment has been provided.

If we have provided the approved documentation to you electronically on a USB storage device, we would like to advise you that this device is for transmittal purposes only and is not designed for long term storage, please transfer all documentation to a purpose designed form of storage media.

Please contact the undersigned should you have any further enquiries on 02 9211 7777.

Yours sincerely,



Michael Potts
Senior Building Surveyor
Blackett Maguire + Goldsmith Pty Ltd