

## BCA CROWN CERTIFICATE

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

<b>CERTIFICATE No.:</b>	CRO-17114
<b>DATE OF CERTIFICATE:</b>	13 March 2018
<b>SUBJECT LAND:</b>	
Lot & DP	Lot 12 DP 1159243
Address	Myall Street Dubbo NSW 2830
<b>LOCAL GOVERNMENT AREA:</b>	Dubbo Regional Council
<b>APPLICANT:</b>	
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: <a href="mailto:svuckovic@hansenyuncken.com.au">svuckovic@hansenyuncken.com.au</a>
<b>OWNER:</b>	
Name	NSW Health Infrastructure
<b>PLANNING APPROVAL (WHERE APPLICABLE):</b>	
DA No.:	SSD 7720
Date of Determination	12 December 2017
<b>DESCRIPTION OF DEVELOPMENT:</b>	<b>Enabling Works:</b> <ul style="list-style-type: none"> <li>+ Demolition of temporary demountable for nursing admin, playmates, doctor's accommodation, George Hatch Building and S block.</li> <li>+ Construction of two corridors and medical air plant.</li> </ul>
<b>BCA CLASSIFICATION:</b>	Class 9a
<b>REFERENCED DOCUMENTATION:</b>	As listed in Schedule 1
<b>STATUTORY CERTIFICATION:</b>	
<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>	
<b>CONDITIONS:</b>	As listed in Schedule 2
<b>PERSON UNDERTAKING CERTIFICATION OF DESIGN ON BEHALF OF THE CROWN:</b>	
SIGNATURE	
Name	David Blackett
Accreditation No.	NSW BFB0032

Date: 13 March 2018



## SCHEDULE 1

### SCHEDULE OF DOCUMENTATION

+ Architectural Plans prepared by HDR:

DRAWING NUMBER	REV	DATE	DRAWING NUMBER	REV	DATE
AR-00-00101	8	20 July 2017	AR-00-00111	7	20 July 2017
AR-4-08001	2	27 November 2017	AR-4-08010	5	7 December 2017
AR-4-08011	4	7 December 2017	AR-4-08015	3	7 December 2017
AR-4-08016	2	3 November 2017	AR-4-08017	4	15 November 2017
AR-4-08020	4	27 November 2017	AR-4-08021	3	27 November 2017
AR-4-08022	1	8 November 2017	AR-4-08023	2	8 November 2017
AR-4-09000	7	7 December 2017			

+ 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.	Architectural Design Statement	HDR	15 November 2017
4.	Structural Design Certificate	Enstruct Group Pty Ltd	13 November 2017
5.	Civil Engineering Design Certificate	Enstruct Group Pty Ltd	13 November 2017
6.	Hydraulic services Design Certificate	ACOR Consultants Pty Ltd	13 December 2017
7.	Design Certificate – Electrical & ICT Services	Jacobs Group (Australia) Pty Ltd	8 November 2017
8.	Mechanical Design Certificate	Wood & Grieve Engineers	13 November 2017
9.	Fire Services Design Certificate	ACOR Consultants Pty Ltd	8 November 2017
10.	Section J Compliance Report – Southern Corridor	Wood & Grieve Engineers	24 November 2017
11.	Section J Compliance Report – Temporary Link 1	Wood & Grieve Engineers	24 November 2017
12.	Email correspondence regarding Alpolic FR cladding	HDR	14 November 2017
13.	Receipt of Payment – Long Service Levy – Receipt No. 00319338	Long Service Corporation	5 February 2018
14.	Letter to Council regarding Heritage Report to DRC	Savills Project Management	21 February 2018
15.	Letter to Council regarding Heritage Division of OEH George Hatch Building	Savills Project Management	22 February 2018
16.	Interpretation Plan	Adaptive Architects	12 February 2018
17.	Interpretation Plan Report	Adaptive Architects	February 2018
18.	Design Review of the Demolition Management Plan and Work Plan	Erwin Structural Engineering Pty Ltd	6 March 2018
19.	Demolition Management Plan and Work Plan	Demex	12 February 2018
20.	Design Statement – Stormwater drainage and civil engineering	Enstruct Group Pty Ltd	12 January 2018
21.	Sediment and Erosion Control Plan	Enstruct Group Pty Ltd	11 January 2018
22.	Structural Report	Lynar Consulting	18 January 2018
23.	Acoustic Design Statement	Wood & Grieve Engineers	9 February 2018
24.	Construction Environmental Management Plan	Hansen Yuncken	January 2018



ITEM	DOCUMENTATION	PREPARED BY	DATE
25.	Erosion and Sediment Control and External Pavements Staging Plan 1	Enstruct Group Pty Ltd	21 September 2017
26.	Erosion and Sediment Control and External Pavements Staging Plan 2	Enstruct Group Pty Ltd	21 September 2017
27.	Erosion and Sediment Control and External Pavements Staging Plan 3	Enstruct Group Pty Ltd	21 September 2017
28.	Construction Noise & Vibration Management Plan	Wood & Grieve Engineers	20 February 2018
29.	Construction Waste Management Plan	Demex	19 February 2018
30.	Construction Environmental Management Plan	Hansen Yuncken	January 2018
31.	Construction Traffic Management Plan	GTA Consultants	1 March 2018
32.	Email confirmation regarding DA Condition B25 Community enquiries and complaints	Hansen Yuncken	8 March 2018
33.	Preconstruction Compliance Report	Hansen Yuncken	22 February 2018
34.	Dubbo Hospital Stage 4 Campus Map	Hansen Yuncken	Undated
35.	Council approval email regarding Interpretation Plan and Heritage Archival Record	Dubbo Regional Council	15 February 2018
36.	Email confirming there is no external lighting forming part of the enabling works scope	Jacobs Group (Australia) Pty Ltd	9 January 2018
37.	Heritage Archive Records	Adaptive Architects	Various dates
38.	Fire Engineering Report – Report No. 16059-R03 Issue No. 2	Innova Services Pty Ltd	19 September 2017



## **SCHEDULE 2**

### CONDITIONS OF S.109R BCA CROWN CERTIFICATE

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.



### SCHEDULE 3

#### FIRE SAFETY SCHEDULE

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

<b>ADDRESS:</b>	Dubbo Hospital Stage 4 Redevelopment – Myall Street, Dubbo
<b>OWNER</b>	NSW Health Infrastructure
<b>BCA CROWN CERTIFICATE No.:</b>	CRO-17114

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 Enabling works
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 and Fire Engineering Report Ref: 103532-FER-r1.5, Addendum 1, dated 6/10/15, prepared by BCA Logic Pty Ltd	✓	✓
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' and Fire Engineered Alternate Solution Prepared by BCA Logic Pty Ltd Ref No 103532-FER-r1.5 dated 6th July 2015	✓	✓
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 – 1990 and manufacturer's specification	✓	
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 & Fire	✓	✓



Statutory Fire Safety Measure	Design / Installation Standard	Existing	New/ Altered <i>Enabling works</i>
	Engineering Report Ref: 16059-R02, issue 1, dated 26/6/17, 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	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	✓	✓
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 1, dated 26/6/17, prepared by Innova Services	✓	
Smoke Walls (a part of the external wall)	Fire Engineering Report Ref: 16059-R02, issue 1, dated 26/6/17, 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 – 1995 and Fire Engineered Alternate Solution Prepared by BCA Logic Pty Ltd Ref No 103532-FER-r1.5 dated 6th July 2015	✓	
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 1, dated 26/6/17, prepared by Innova Services	✓	✓
Fire Engineering Report Ref: 103532-FER-r1.5, Addendum 1, dated 6/10/15, prepared by BCA Logic Pty Ltd: 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	Fire Engineering Report Ref: 103532-FER-r1.5, Addendum 1, dated 6/10/15, prepared by BCA Logic Pty Ltd	✓	



Statutory Fire Safety Measure	Design / Installation Standard	Existing	New/ Altered <i>Enabling works</i>
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: 16059-R02, issue 2, dated 19/9/17, prepared by Innova Services:</p> <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>6. To have copper medical gas lines penetrate through fire rated elements.</li> <li>7. To retain the existing access stairway adjacent to the lift within the Stage 3C building where the stairway will have an unobstructed width of 750mm following the installation of handrails, in lieu of at least 1m.</li> <li>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.</li> <li>9. To have the path of travel from the southern external stairway require travel back through the building prior to reaching an open space</li> </ol>	<p>Fire Engineering Report Ref: 16059-R02, issue 1, dated 26/6/17, prepared by Innova Services</p>	<p>✓</p>	



Statutory Fire Safety Measure	Design / Installation Standard	Existing	New/ Altered <i>Enabling works</i>
<p>(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>Fire Engineering Report Ref: 16059-R03, Issue 1, dated 25/01/18, prepared by Innova Services:</p> <p>1. To not protect the openings within the external walls of link EW2 (southern link) where located within 6m of the new Stage 4a building. Further, the EW2 link will be temporarily exposed to an existing link corridor located within 6m until the Stage 4a building works have commenced.</p> <p>2. To not provide fire hydrant and fire hose reel coverage to link EW6 (northern link).</p>	<p>Fire Engineering Report Ref: 16059-R03, Issue 1, dated 25/01/18, prepared by Innova Services</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:

- + 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.

13 March 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 – REVISED**

Provided undercover for The Department's information a copy of the revised s.109R Crown Certificate No. CRO-17114. This letter is notice that the following application for a s.109R Certificate has now been approved for the proposed demolition of temporary demountable for nursing admin, playmates, doctor's accommodation, George Hatch Building and S block, and construction of two corridors and medical air plant

Applicant: Hansen Yuncken  
Subject Address: Dubbo Hospital – Stage 4 Redevelopment – Myall Street, Dubbo  
Date Received: 06 December 2017  
Date Determined: 13 March 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**