



ACT
Government

Chief Minister, Treasury and
Economic Development

Freedom of Information Publication Coversheet

The following information is provided pursuant to section 28 of the *Freedom of Information Act 2016*.

FOI Reference: CMTEDDFOI 2023-327

Information to be published	Status
1. Access application	Published
2. Decision notice	Published
3. Documents and schedule	Published
4. Additional information identified	No
5. Fees	Waived
6. Processing time (in working days)	45
7. Decision made by Ombudsman	N/A
8. Additional information identified by Ombudsman	N/A
9. Decision made by ACAT	N/A
10. Additional information identified by ACAT	N/A

From: [REDACTED]
To: [CMTEDD FOI](#)
Subject: Re: New FOI request for CMTEDD - request for re-scope
Date: Monday, 11 September 2023 6:06:16 PM

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Option 2 please.

Thank you!!

On Mon, 11 Sept 2023, 4:19 pm CMTEDD FOI, <CMTEDDFOI@act.gov.au> wrote:

OFFICIAL

[REDACTED]

Thank you for your response.

I would like to clarify that the revised scope I suggested in my previous email, is worded specifically enough, that the three points you have listed in your last email would be captured in the document search. Additionally, because you have requested “all documents for all construction during the period 2017 – to present, the scope may possibly capture additional information which may not necessarily, be what you are after. It is also worth noting that this is quite a large scope, which could impact on how quickly the decision can be finalised and provided to you.

For clarity, can you please confirm if your preference to progress is **option 1** or **option 2** (noting option 2 is likely to be a much larger request and may capture information you may not require):

Option 1:

- i. A copy of the Building Approval (BA) document for the **Maintenance Shed**, on block 4, Section 41, Lyneham, lodged in 2017 (corresponding to DA 201630939).
- ii. A copy of all Building Approvals (BA) documents for **footings/slab or pavements for Brindabella Christian College demountables** on block 4, Section 41, Lyneham from 2017 to date.
- iii. A copy of the Building Approval (BA) and the Certificate of Occupancy for the **Junior School**, (relating to DA201629628)

Option 2:

- Copies of the following documentation for **all construction on block 4, section 41, Lyneham** (Brindabella Christian College), **from the period of 2017 till September 2023** (to date).
 - i. **Building Approvals**
 - ii. **Certificates of Occupancy**
 - iii. **Certificates of Use**
 - iv. **Exemption declarations**
 - v. **Correspondence or advice regarding exemptions or exempt work**
 - vi. **Stop Work Orders**

* Note: this option will include documents searches to obtain the following:

- A copy of the Building Approval (BA) document for the **Maintenance Shed**, on block 4, Section 41, Lyneham, lodged in 2017 (corresponding to DA 201630939).
- A copy of all Building Approvals (BA) documents for **footings/slab or pavements for Brindabella Christian College demountables** on block 4, Section 41, Lyneham from 2017 to date.
- A copy of the Building Approval (BA) and the Certificate of Occupancy for the **Junior School**, (relating to DA201629628)

Please do not hesitate to contact me should you wish to discuss the matter over the phone.

Kind regards,

Jess

Freedom of Information Coordinator | Information Access Team

Phone: 02 6207 7754 | Email: CMTEDDFOI@act.gov.au

Corporate | Chief Minister, Treasury and Economic Development Directorate | ACT Government

Level 1, 220 London Circuit, Canberra ACT 2601 | GPO Box 158 Canberra ACT 2601 | act.gov.au

From: [REDACTED] >
Sent: Monday, 11 September 2023 3:56 PM
To: CMTEDD FOI <CMTEDDFOI@act.gov.au>
Subject: Re: New FOI request for CMTEDD - request for re-scope

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Thank you Jess

Could part 2 please be expanded a little, thank you!

...Specifically, please ensure searches for the following information is conducted:

- A copy of the Building Approval (BA) document for the **Maintenance Shed**, on block 4, Section 41, Lyneham, lodged in 2017 (corresponding to DA 201630939).
- All Building Approvals (BA) documents for **footings/slab or pavements for Brindabella Christian College demountables** on block 4, Section 41, Lyneham from 2017 to date.
- Building Approval and the Certificate of Occupancy for the Junior School, DA201629628.

On Mon, 11 Sept 2023, 2:24 pm CMTEDD FOI, <CMTEDDFOI@act.gov.au> wrote:

OFFICIAL

Good afternoon [REDACTED]

I refer three requests for information, transferred from the EPSDD to CMTEDD, today, 11 September 2023 (see below summaries):

Application	Current Scope
(1)	The following documentation for all construction on block 4, section 41 Lyneham, from the period of 2017 till

	<p>September 2023 (to date).</p> <ol style="list-style-type: none"> i. Building Approvals ii. Certificates of Occupancy iii. Certificates of Use iv. Exemption declarations v. Correspondence or advice regarding exemptions or exempt work vi. Stop Work Orders
(2)	<p>A copy of the Building Approval (BA) document for the Brindabella Christian College Maintenance Shed, on block 4, Section 41 lodged in 2017.</p> <ul style="list-style-type: none"> • Corresponding to DA 201630939.
(3)	<p>A copy of the Building Approval (BA) documents for the footings/slab or pavements for Brindabella Christian College demountables on block 4, Section 41.</p> <ul style="list-style-type: none"> • The slab/ pavement /footings would have been laid sometime between 2017 and 2019, as these demountables were relocated within the block sometime between 2017 and 2019.

After reviewing the scope of the above requests, it is apparent that the information you are seeking in applications (2) and (3), would be captured under application (1).

Therefore, I recommend we consolidate your requests. The most efficient way to do this is to withdraw applications (2) & (3) and specify some additional notes in application (1).

Below I have revised the scope for application (1), pending your approval:



Revised Scope for 'application (1)'

Copies of the following documentation for all construction on block 4, section 41, Lyneham (Brindabella Christian College), from the period of 2017 till September 2023 (to date).

- i. **Building Approvals**
- ii. **Certificates of Occupancy**
- iii. **Certificates of Use**
- iv. **Exemption declarations**
- v. **Correspondence or advice regarding exemptions or exempt work**
- vi. **Stop Work Orders**

Specifically, please ensure searches for the following information is conducted:

- A copy of the Building Approval (BA) document for the **Maintenance Shed**, on block 4, Section 41, Lyneham, lodged in 2017 (corresponding to DA 201630939).
- A copy of the Building Approval (BA) documents for **the footings/slab or pavements for Brindabella Christian College demountables** on block 4, Section 41, Lyneham. (The slab/ pavement /footings would have been laid sometime between 2017 and 2019)

May I kindly ask that you review the above revised scope for application (1) and provide your comments and approval to withdraw applications (2) and (3), so that the initial document searches can commence.

Kind regards,

Jess

Freedom of Information Coordinator | Information Access Team

Phone: 02 6207 7754 | Email: CMTEDDFOI@act.gov.au

Corporate | Chief Minister, Treasury and Economic Development Directorate | ACT Government

Level 1, 220 London Circuit, Canberra ACT 2601 | GPO Box 158 Canberra ACT 2601 | act.gov.au

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ACT
Government

Chief Minister, Treasury and
Economic Development

Our ref: CMTEDDFOI 2023-327

FREEDOM OF INFORMATION REQUEST

I refer to your application under section 30 of the *Freedom of Information Act 2016* (the Act), which was transferred in part from Environment, Planning and Sustainable Development Directorate and received by the Chief Minister, Treasury and Economic Development Directorate (CMTEDD) on 11 September 2023. CMTEDD accepted transfer of parts 1-3, and 4-5 of your request. In that request you sought access to the following:

- *"I am writing to you to seek information and correspondence about construction on Block 4. Section 41, Lyneham.*

Specifically, please share:

- *Building Approvals*
- *Certificates of Occupancy*
- *Certificates of Use*
- *Exemption declarations*
- *Correspondence or advice regarding exemptions or exempt work*
- *Stop Work Orders*

For all construction on block 4, section 41 Lyneham, from the period of 2017 till September 2023 (to date).

This is in the public interest regarding the ACT Building, Planning and Development, and Education laws and regulations being upheld, Transport safety, and amenity of the Lyneham community, and safety and functionality of the Brindabella Christian College, including student capacity and safety of buildings.

I wish to have my name withheld from the application and not shared with the line areas please."

On 11 September 2023 you were contacted by a Freedom of Information Officer to rescope your application under section 34 of the Act. On 11 September 2023 you confirmed your agreement to the following revised scope:

- *"Copies of the following documentation for **all construction on block 4, section 41, Lyneham** (Brindabella Christian College), **from the period of 2017 [01 January 2017] till September 2023** (to date)[11 September 2023].*
 - Building Approvals***
 - Certificates of Occupancy***

- iii. **Certificates of Use**
- iv. **Exemption declarations**
- v. **Correspondence or advice regarding exemptions or exempt work**
- vi. **Stop Work Orders**

** Note: this option will include documents searches to obtain the following:*

- *A copy of the Building Approval (BA) document for the **Maintenance Shed**, on block 4, Section 41, Lyneham, lodged in 2017 (corresponding to DA 201630939).*
- *A copy of all Building Approvals (BA) documents for **footings/slab or pavements for Brindabella Christian College demountables** on block 4, Section 41, Lyneham from 2017 to date.*
- *A copy of the Building Approval (BA) and the Certificate of Occupancy for the **Junior School**, (relating to DA201629628)."*

Authority

As an appointed Information Officer under section 18 of the Act by the Director-General of CMTEDD, I am authorised to make a decision on access or amendment to government information in the possession or control of CMTEDD.

Timeframes

In accordance with section 40 of the Act, CMTEDD was required to provide a decision on your access application 24 October 2023. However, following on from third party consultations, the due date is now 14 November 2023.

Decision on access

Searches were completed for relevant documents and 113 documents were identified that falls within the possible scope of your request, excluding duplicates.

I have included as **Attachment A** to this decision the schedule of relevant documents. This provides a description of each of the documents that fall within the scope of your request and the access decision for of those document documents. Due to the size and complexity of the documents the material has been divided into binders, according to the building activity.

Additional Information

Documents within scope were related to the following building activities:

- Binder 1 - Stop Work Notice
- Binder 2 - Solar PV Installation
- Binder 3 - Part 1 - Proposed Demountable
- Binder 3 - Part 2 - Proposed Demountable
- Binder 4 - Junior school
- Binder 5 - Maintenance Shed
- Binder 6 - Relocation of Demountable
- Solar PV Installation – Binder 7

I have decided to grant **full access** to 8 documents and **partial access** to 94 of documents and refused access, or **fully exempted** 19 documents from release, as I consider them to contain information that would, on balance, be contrary to the public interest to disclose under the test set out in section 17 of the Act, or outside scope of your requested information.

My access decisions are detailed further in the following statement of reasons and the documents released to you are provided as **Attachment B** to this letter.

In accordance with section 54(2) of the Act a statement of reasons outlining my decisions is below.

Statement of Reasons

In reaching my access decisions, I have taken the following into account:

- the Act;
- *Human Rights Act 2004* (HR Act);
- *Building Act 2004* (Building Act);
- *Building (Fees) Determination 2023*
- the content of the documents that fall within the scope of your request; and
- third party consultation.

Exemption claimed

My reasons for deciding not to grant access to the identified documents and components of these documents are as follows:

Information that would, on balance, be contrary to the public interest to disclose under the test set out in section 17 of the Act

None of the identified documents contain information that is considered to be contrary to the public interest under schedule 1 of the Act.

Public Interest

The Act has a presumption in favour of disclosure. As a decision maker I am required to decide where, on balance, public interests lies. As part of this process I must consider factors favouring disclosure and non-disclosure.

In *Hogan v Hinch* (2011) 243 CLR 506, [31] French CJ stated that when ‘used in a statute, the term [public interest] derives its content from “the subject matter and the scope and purpose” of the enactment in which it appears’. Section 17(1) of the Act sets out the test, to be applied to determine whether disclosure of information would be contrary to the public interest. These factors are found in subsection 17(2) and Schedule 2 of the Act.

Taking into consideration the information contained in the documents found to be within the scope of your request, I have identified that the following public interest factors are relevant to determine if release of the information contained within these documents is within the ‘public interest’.

Factors favouring disclosure in the public interest (Sch 2 s 2.1(a) of the Act):

- (a) *disclosure of the information could reasonably be expected to do any of the following:*
- (i) *promote open discussion of public affairs and enhance the government's accountability;*
 - (ii) *contribute to positive and informed debate on important issues or matters of public interest; and*
 - (viii) *reveal the reason for a government decision and any background or contextual information that informed the decision.*

The release of this information may possibly help to create positive and informed discussions and enhance the government's accountability including accountability related to building approvals. I consider that disclosing the contents of the information sought could reasonably contribute to discussion of public affairs. The release of information will provide insight into processes undertaken with regards to business activities related to building and certification activities undertaken by the ACT Government. I note the information relates to government decisions, impacting on the private sector, such as the decision to issue certificates of occupancy.

I am satisfied that this is a relevant consideration favouring disclosure in this case, and in the interests of enhancing open discussion.

I have placed substantial weight on the above factors favouring disclosure. The release of this information can reasonably be expected to provide some background and context into the administration and decision-making process relating to compliance activities handled by Access Canberra.

However, these factors are required to be balanced against those factors favouring non-disclosure.

Factors favouring nondisclosure in the public interest (Sch 2 s 2.2(a) of the Act):

- (a) *disclosure of the information could reasonably be expected to do any of the following:*
- (ii) *prejudice the protection of an individual's right to privacy or any other right under the Human Rights Act 2004;*
 - (iii) *prejudice security, law enforcement and public safety;*
 - (xi) *prejudice trade secrets, business affairs or research of an agency or person.*

Having reviewed the documents, I consider the protection of an individual's right to privacy is a significant factor. I have decided that their right to privacy in relation to their personal information has a higher weighting not to disclose, than the public interest has in disclosing this information. I am of the view that disclosure of employee names and contact information could prejudice their individual rights to privacy under the *Human Rights Act 2004*.

Section 12 of the HR Act, concerning privacy and reputation, states:

"Everyone has the right—

(a) not to have his or her privacy, family, home or correspondence interfered with unlawfully or arbitrarily; and
(b) not to have his or her reputation unlawfully attacked”

Individuals working for the third parties have a right to privacy and reputation under section 12 of the HR Act. Personal information, such as names, mobile numbers and emails have been redacted of third parties. However, position titles have not been redacted. I have afforded their right to privacy significant weight.

I consider that the protection of an individual’s right to privacy, especially in the course of dealings with the ACT Government is a significant factor as the parties involved have provided their personal contact information for the purposes of working with the ACT Government. I have considered the information and in my opinion the protection of these individuals’ personal details (such as personal signatures which are not publicly available) outweighs the benefit which may be derived from releasing them. I consider that these individuals are entitled to expect that the personal information they have supplied as part of this process to the ACT Government will be dealt with in a manner that protects their privacy.

In addition, the protection of personal information for an individual when engaging with government during review and certification processes, in my opinion, outweighs the benefit which may be derived from releasing the personal information of an individual or individuals involved in this matter. In this instance, I have decided that release of personal information of individuals who have engaged with government as part of a compliance and certification processes, is contrary to the public interest as this information could also prejudice an individual’s rights to privacy under the *Human Rights Act 2004*.

Schedule 2 section 2.2(a)(xi) allows for government information to be withheld from release if disclosure of the information could reasonably be expected to prejudice the trade secrets, business affairs or research of an agency or person. I note that the disclosure of some of the information in scope, could potentially impact on the competitive commercial activities of the businesses who supplied material in this process. These materials contain information about their business affairs, detailed plans, cost of works, and reports prepared in response to compliance activities. This is a serious issue and I weight this provision substantially.

Having applied the test outlined in section 17 of the Act and deciding that release of some of the information contained in the documents is not in the public interest to release, I have chosen to redact this specific information in accordance with section 50(2). Noting the pro-disclosure intent of the Act, I am satisfied that redacting only the information that I believe is not in the public interest to release will ensure that the intent of the Act is met and will provide you with access to information held by CMTEDD within the scope of your request.

I give greater weight to protecting the business affairs of companies dealing with the Directorate, where I have deemed that it could reasonably be expected for those companies to be negatively impacted by release of information about them. I have

decided that the factor favouring nondisclosure has greater weight than the factors favouring disclosure. Therefore, the information has been redacted from the record.

In my consideration of the public interest test, I note that some of the material could also be redacted under schedule 2, section 2.2(a)(iii) where release of the information may prejudice public safety. This includes a reasonable assumption that personal information of third parties, if published, may be used to harass or intimidate third parties if they were identified, as well as published information for a private school could risk public safety.

Third Parties Views

Third parties were consulted on the release of section 38 of the Act. Some third parties raised objection to the disclosure of information within the scope of your request, providing various reasons for the objection.

One reason provided included that the plans contained commercial value to third parties. I note that the ACT government is not the author of some of the documents within scope of your request and the ACT Government holds these documents due to legislative procedures under the *Building Act 2004*. Some third parties argued that they did not want their intellectual property shared publicly without financial compensation.

Manteena Commercial Pty Ltd and Major Projects Canberra [2021] ACTOFOI 9 (8 September 2021) considered the issue of a reasonable expectation that the information if released could prejudice the competitive commercial activities of the ACT government and its agencies. In this case the ACT Ombudsman stated that, at paragraph 61:

Information has a commercial value if:

- *it is valuable for the purposes of carrying on the commercial activity in which that agency or other person is engaged (i.e., because it is important or essential to the profitability or viability of a continuing business operation, or a pending 'one-off' commercial transaction); or*
- *a genuine arms-length buyer is prepared to pay to obtain that information from that agency or person, such that the market value of the information would be destroyed or diminished if it could be obtained from a government agency which has possession of it.*

Some information has been redacted on the basis that it could reasonably be expected to prejudice the competitive commercial activities of third parties, where the information was created by third parties. Furthermore, some of the documents such as building plans in binder 3, contain documents that are subject to copyright and publishing these documents would infringe copyright.

I afford the factors of protecting third party privacy and protecting public safety and the third party business interests significant weight.

Following significant third party consultation, I have decided to redact information that may also cause harm if released, such as third party private information like names and email addresses. I have also decided to redact documents, such as building plans for the

interior of buildings where the information is not publicly known on safety grounds due to the harm that may be caused if this information was used inappropriately.

Having applied the test outlined in section 17 of the Act and deciding that release of personal information contained in the documents is not in the public interest to release, I have chosen to redact this specific information in accordance with section 50(2). Noting the pro-disclosure intent of the Act, I am satisfied that redacting only the information that I believe is not in the public interest to release will ensure that the intent of the Act is met and will provide you with access to the majority of the information held by CMTEDD within the scope of your request.

Some documents that I have decided to released in full, were previously publicly available, but have been superseded. Examples include data sheets, and the updated versions of these documents are publicly available at the date of my decision. I have decided that it is not contrary to third party interests under the section 17 public interest test to release this information.

The amounts of fees listed on documents such as invoices has been redacted noting the total figure relates to third party commercially sensitive information, including part of the fee being calculated as a percentage of the cost of the work.

Please note that building fees and levies, payable under a disallowable instrument made each year under section 150 of the *Building Act* are publicly available, and published on the ACT Legislation Register . The current one is the *Building (Fees) Determination 2023*, available here: <https://legislation.act.gov.au/View/di/2023-123/current/html/2023-123.html>

Previous, repealed, fee determinations are also published on the ACT Legislation register according to year, such as the *Building (Fees) Determination 2017*:
<https://legislation.act.gov.au/di/2017-148/>

Nineteen documents have been identified in the schedule as being refused, as I consider that these documents contains information that I consider, on balance, to be contrary to the public interest to disclose under the test set out in section 17 of the Act or they contain information which is out of scope.

Charges

Pursuant to *Freedom of Information (Fees) Determination 2017 (No 2)* processing charges are applicable for this request because the total number of pages to be released to you exceeds the charging threshold of 50 pages. However, the charges have been waived in accordance with section 107(2)(b) of the Act.

Online publishing – Disclosure Log

Under section 28 of the Act, CMTEDD maintains an online record of access applications called a disclosure log. Your original access application, my decision and documents released to you in response to your access application will be published on the CMTEDD disclosure log 3 days after the date of my decision. Your personal contact details will not be published.

You may view CMTEDD disclosure log at <https://www.cmtedd.act.gov.au/functions/foi>.

Ombudsman Review

My decision on your access request is a reviewable decision as identified in Schedule 3 of the Act. You have the right to seek Ombudsman review of this outcome under section 73 of the Act within 20 working days from the day that my decision is published in CMTEDD disclosure log, or a longer period allowed by the Ombudsman.

We recommend using this form [Applying for an Ombudsman Review](#) to ensure you provide all of the required information. Alternatively, you may write to the Ombudsman at:

The ACT Ombudsman
GPO Box 442
CANBERRA ACT 2601

Via email: actfoi@ombudsman.gov.au

ACT Civil and Administrative Tribunal (ACAT) Review

Under section 84 of the Act, if a decision is made under section 82(1) on an Ombudsman review, you may apply to the ACAT for review of the Ombudsman decision. Further information may be obtained from the ACAT at:

ACT Civil and Administrative Tribunal
Allara House
15 Constitution Avenue
GPO Box 370
Canberra City ACT 2601
Telephone: (02) 6207 1740
<http://www.acat.act.gov.au/>

Should you have any queries in relation to your request please contact the Information Access Team by telephone on 6207 7754 or email CMTEDDFOI@act.gov.au.

Yours sincerely,



Emma Hotham
Information officer
Information Access Team
Chief Minister, Treasury and Economic Development Directorate

14 November 2023



ACT
Government

Chief Minister, Treasury and
Economic Development

FREEDOM OF INFORMATION REQUEST SCHEDULE

WHAT ARE THE PARAMETERS OF THE REQUEST

Reference NO.

"Copies of the following documentation for all construction on block 4, section 41, Lyneham (Brindabella Christian College), from the period of 2017 [01 January 2017] till September 2023 (to date)[11 September 2023].

i. Building Approvals

ii. Certificates of Occupancy

iii. Certificates of Use

iv. Exemption declarations

v. Correspondence or advice regarding exemptions or exempt work

vi. Stop Work Orders

** Note: Please ensure the following construction work is searched for.*

- *A copy of the Building Approval (BA) document for the Maintenance Shed, on block 4, Section 41, Lyneham, lodged in 2017 (corresponding to DA 201630939).*

- *A copy of all Building Approvals (BA) documents for footings/slab or pavements for Brindabella Christian College demountables on block 4, Section 41, Lyneham from 2017 to date.*

- *A copy of the Building Approval (BA) and the Certificate of Occupancy for the Junior School, (relating to DA201629628)"*

CMTEDDFOI 2023-327

Ref No	Binder Number	Page number	Description	Date	Status	Reason for Exemption	Online Release Status
1	1	1	Stop Work Document: Email -Subject: "Stop Notice – B4S41 Lyneham"	13/02/2023	Partial	Sch 2, s 2.2(a)(ii)	Yes
2	1	2-6	Stop Work Document: Stop Notice	13/02/2023	Partial	Sch 2, s 2.2(a)(ii)	Yes
3	1	7	Stop Work Document: Email -Subject: "Stop Notice – B4S41 Lyneham"	10/08/2023	Partial	Sch 2, s 2.2(a)(ii)	Yes
4	1	8-10	Stop Work Document: Stop Notice	10/08/2023	Partial	Sch 2, s 2.2(a)(ii)	Yes
5	2	1	Solar PV installation Document -Plans - Approved plan 01-B2019238 – (vA54539802)	20/07/2017-30/01/2018	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
6	2	2-3	Solar PV installation Document - Document – Appointment of a builder and Application for commencement Notice	29/01/2018	Partial	Sch 2, s 2.2(a)(ii)	Yes
7	2	4-5	Solar PV installation Document -Document – Application for Building Commencement Notice - unsigned	undated	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
8	2	6-7	Solar PV installation Document - Document – Appointment of a Certifier and Application for Building Approval	undated	Partial	Sch 2 s 2.2(a)(xi)	Yes

9	2	8-11	Solar PV installation Document - Appointment of a certifier application for building approval, including building approval certificate-(4 pages)	29/01/2018-30/01/2018	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
102	2	12-13	Solar PV installation Document Site Work Notice	30/01/2018	Partial	Sch 2, s 2.2(a)(ii)	Yes
11	2	14-15	Solar PV installation Document -Building Approval	30/01/2018	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
12	2	16-	Solar PV installation Document – Building Commencement Notice	30/01/2018	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
13	2	37	Solar PV installation Document - Building Approval Fees and Levies Tax Invoice	30/01/2018	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
14	2	38	Solar PV installation Document – ACT Government - Creditor invoice and payment history	01/02/2018	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
15	2	39	Solar PV installation Document - Building Approval Fees and Levies Receipt	02/02/2018	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
16	2	40	Solar PV installation Document – BPay - NAB authorisation form	02/02/2018	Partial	Sch 2, s 2.2(a)(ii)	Yes
17	2	41-43	Solar PV installation Document -Certificate of Occupancy - Application for certificate of occupancy and use	20/01/2018	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
18	2	44-45	Solar PV installation Document - Certificate of Occupancy - Application for Certificate of Occupancy and Use - unsigned	undated	Partial	Sch 2, s 2.2(a)(ii)	Yes
19	2	46-47	Solar PV installation Document - Certificate of Occupancy - Certification of Completion of Building Work	01/02/2018	Partial	Sch 2, s 2.2(a)(ii)	Yes
20	2	48-49	Certificate of Occupancy and Use Checklist - Commercial	02/02/2018	Partial	Sch 2, s 2.2(a)(ii)	Yes
21	2	50	Solar PV installation Document - Certificate of Occupancy - Certificate of Occupancy and Use	02/02/2018	Partial	Sch 2, s 2.2(a)(ii)	Yes
22	3	1-7	B2023500-Proposed demountable – Plans - Approved Plan - 01- Issue for construction date	undated	Partial	Sch 2 s 2.2(a)(xi)	Yes
23	3	8-9	B2023500-Proposed demountable – Plans - Approved Plan -02- Building Approval	undated	Partial	Sch 2 s 2.2(a)(xi)	Yes
24	3	10-17	B2023500-Proposed demountable – Plans - Approved Plan -03	undated	Partial	Sch 2 s 2.2(a)(xi)	Yes
25	3	18-33	B2023500-Proposed demountable – Plans - Approved Plan -04	15/02/2023	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
26	3	34-55	B2023500-Proposed demountable – Plans - Approved Plan -05	15/02/2023	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
27	3	56	B2023500-Proposed demountable – Plans - Hydraulic – for certification	25/01/2021	Partial	Sch 2 s 2.2(a)(xi)	Yes

28	3	57-58	B2023500-Proposed demountable - Plans – Other	undated	Partial	Sch 2 s 2.2(a)(xi)	Yes
29	3	59-60	B2023500-Proposed demountable – Documents - Alternative Solution Review_03	13/02/2023	Refused	Sch 2 s 2.2(a)(xi)	Yes
30	3	61-127	B2023500-Proposed demountable – Documents - Alternative Solution Review_04	17/11/2020	Full		Yes
31	3	128	B2023500-Proposed demountable - Invoice	17/02/2023	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
32	3	129	B2023500-Proposed demountable – Documents - Building approval -01	13/02/2021	Refused	Sch 2 s 2.2(a)(xi)	Yes
33	3	1130	B2023500-Proposed demountable – Documents - Building approval -02	18/09/2020	Refused	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
34	3	131-176	B2023500-Proposed demountable – Documents- Building approval -04 -	09/02/2023	Refused	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	No
35	3	177-180	B2023500- Proposed demountable - Documents - Building approval -05	18/11/2021	Refused	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	No
36	3	181-182	B2023500-Proposed demountable – Documents - Building approval -06 – Certificate	02/06/2021	Refused	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	No
37	3	183-184	B2023500-Proposed demountable - Documents - Building approval -07 - certificate of compliance	19/03/2021	Refused	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	No
38	3	156-157185-86	B2023500-Proposed demountable – Documents - Building approval -08	16/03/2021	Refused	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	No
39	3	158-159187-188	B2023500-Proposed demountable - Documents - Building approval - 09	17/03/2021	Refused	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	No
40	3	189	B2023500-Proposed demountable – Documents - Building approval -10	27/08/2020	Partial	Sch 2, s 2.2(a)(ii)	Yes
41	3	190-204	B2023500-Proposed demountable – Documents - Building approval -11	25/02/2020	Full		Yes
42	3	205-212	B2023500-Proposed demountable – Documents - Building approval - 12	25/02/2020	Refused	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	No
43	3	213-216	B2023500-Proposed demountable – Documents - Building approval -13	2020	Full		Yes

44	3	217-247	B2023500-Proposed demountable – Documents - Building approval -14	11/07/2019	Full		Yes
45	3	248-250	B2023500-Proposed demountable – Documents - Building approval -15 - Wall batt data sheet	November 2021	Full		Yes
46	3	251-252	B2023500-Proposed demountable – Documents - Building approval -16 Lysaght-data sheet	February 2020	Full		Yes
47	3	253-270	B2023500-Proposed demountable - Documents Building approval -18	undated	Refused	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	No
48	3	271-272	B2023500-Proposed demountable - Documents Building approval	undated	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
49	3	273-275	B2023500-Proposed demountable – Documents-commencement Notice Application	undated	Partial	Sch 2, s 2.2(a)(ii)	Yes
50	3	276-277	B2023500-Proposed demountable – Documents-Application for commencement notice	undated	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
51	3	278-279	B2023500-Proposed demountable – Documents-Application for commencement notice	undated	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
52	3	280-281	B2023500-Proposed demountable – Documents-Building commencement notice	undated	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
53	3	282-285	B2023500-Proposed demountable – Documents - certifier appointment	undated	Partial	Sch 2, s 2.2(a)(ii)	Yes
54	3	286-287	B2023500-Proposed demountable – Documents – Appointment of certifier	undated	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
55	3	288-289	B2023500-Proposed demountable – Documents - DA Exempt checklist	15/02/2023	Partial	Sch 2, s 2.2(a)(ii)	Yes
56	3	-290-303	B2023500-Proposed demountable – Documents	29/03/2021	Partial	Sch 2, s 2.2(a)(ii)	Yes
57	3 - Part 2	1-22	B2023500-Proposed demountable – Documents - Building approval -17 - Warrington fire	11/08/2020	Full		Yes
58	4	1-12	B20164644- Junior School – Plans – Approved Plan - 01	20/12/2017	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
59	4	13-30	B20164644- Junior School – Plans – Approved Plan - 04	undated	Partial	Sch 2, s 2.2(a)(ii)	Yes
60	4	31	B20164644- Junior School – Documents –Invoice	30/01/2018	Partial	Sch 2, s 2.2(a)(ii)	Yes

61	4	32-33	B20164644- Junior School – Documents – building approval	18/10/2016	Partial	Sch 2 s 2.2(a)(xi)	Yes
62	4	34-35	B20164644- Junior School – Certificate of Occupancy – Application for Building Commencement Notice	undated	Partial	Sch 2, s 2.2(a)(ii)	Yes
63	4	36-37	B20164644- Junior School – Certificate of Occupancy- Building Commencement Notice	undated	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
64	4	38-39	B20164644- Junior School – Certificate of Occupancy - Certificate of Occupancy and Use Application-02	undated	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
65	4	40	B20164644- Junior School – Invoice	01/02/2016	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
66	4	41-42	B20164644- Junior School – Documents -certificate of completion of building work	undated	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
67	4	43-46	B20164644- Junior School – CoO – Application for Certificate of occupancy and use	29/01/2018	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
68	4	47-48	B20164644- Junior School – CoO – Application for Certificate of occupancy	undated	Partial	Sch 2, s 2.2(a)(xi)	Yes
69	4	49	B20164644- Junior School – Certificate of occupancy and Use	02/02/2018	Partial	Sch 2, s 2.2(a)(xi)	Yes
70	4	50	B20164644- Junior School – CoO - Checklist	undated	Full		Yes
71	5	1	B20174355 – Maintenance Shed – Plans – Approved Plans – elevations and sections	18/01/2017	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
72	5	2-4	B20174355 – Maintenance Shed – Plans – Approved Plans – site - floor	18/01/2017	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
73	5	5-7	B20174355 – Maintenance Shed – Plans – Approved Plans – structural	18/01/2017	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
74	5	8-9	B20174355 – Maintenance Shed – Plans – Documents – 2017810 check Building Approval Commercial Lodgement checklist	18/10/2017	Full		Yes
75	5	10	B20174355 – Maintenance Shed – Plans – Documents – invoice	18/10/2017	Partial	Sch 2 s 2.2(a)(xi)	Yes
76	5	11-12	B20174355 – Maintenance Shed – Plans – Documents –building approval	undated	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
77	5	13-16	B20174355 – Maintenance Shed – Plans – Documents	18/01/2017	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
78	5	17-19	B20174355 – Maintenance Shed – Plans – Documents – Appointment of a builder and application for commencement notice	18/01/2017	Partial	Sch 2, s 2.2(a)(ii)	Yes
79	5	20-21	B20174355 – Maintenance Shed – Plans – Documents –Application for building commencement notice	undated	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes

80	5	22-23	B20174355 – Maintenance Shed – Plans – Documents – building commencement notice	undated	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
81	5	24	B20174355 – Maintenance Shed – Plans – Documents – appointment of a certifier and application for building approval	undated	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
82	6	1-6	B20202370 – Relocation of Demountable – Plans – Approved Plan-01	23/06/2020	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
83	6	7-14	B20202370 – Relocation of Demountable – Plans – Approved Plan-Floor	26/05/2020	Partial	Sch 2, s 2.2(a)(ii)	Yes
84	6	15	B20202370 – Relocation of Demountable – Plans – Approved Plan-Hydraulic	undated	Partial	Sch 2 s 2.2(a)(xi)	Yes
85	6	16-21	B20202370 – Relocation of Demountable – Plans – Approved Plan-Other	20/02/2020	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
86	6	22	B20202370 – Relocation of Demountable – Documents - Invoice	23/06/2020	Partial	Sch 2, s 2.2(a)(ii)	Yes
87	6	23	B20202370 – Relocation of Demountable – Documents – Fees and Levies Tax Invoice	23/06/2020	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
88	6	24-41	B20202370 – Relocation of Demountable – Documents – Building Approval - 01	28/01/2020	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
89	6	42-43	B20202370 – Relocation of Demountable – Documents – Building Approval	undated	Partial	Sch 2 s 2.2(a)(xi)	Yes
90	6	44-45	B20202370 – Relocation of Demountable – Documents – Appointment of a builder and application for commencement notice	26/02/2020	Partial	Sch 2, s 2.2(a)(ii)	Yes
91	6	46-47	B20202370 – Relocation of Demountable – Documents – Application for building commencement notice	undated	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
92	6	48-49	B20202370 – Relocation of Demountable – Documents – Building commencement Notice	26/05/2020	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
93	6	50-52	B20202370 – Relocation of Demountable – Documents – Appointment of a certifier application for building approval	26/02/2020	Partial	Sch 2, s 2.2(a)(ii)	Yes
94	6	53-54	B20202370 – Relocation of Demountable – Documents – Appointment of a certifier and application for building approval	undated	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
95	6	55	B20202370 – Relocation of Demountable – Documents – Certifier appointment	26/02/2020	Partial	Sch 2, s 2.2(a)(ii)	Yes
96	6	56-57	B20202370 – Relocation of Demountable – Documents –Building Approval Commercial Lodgement checklist	24/06/2020	Partial	Sch 2, s 2.2(a)(ii)	Yes
97	6	58	B20202370 – Relocation of Demountable – Certificate of Occupancy - email	24/06/2020	Partial	Sch 2, s 2.2(a)(ii)	Yes

98	6	59-60	B20202370 – Relocation of Demountable – Certificate of Occupancy– Certificate of Completion	23/06/2020	Partial	Sch 2, s 2.2(a)(ii)	Yes
99	6	61-76	B20202370 – Relocation of Demountable – Certificate of Occupancy – Certificate of occupancy and use application	10/06/2020-23/06/2020	Partial	Sch 2, s 2.2(a)(ii)	Yes
100	6	77-78	B20202370 – Relocation of Demountable – Certificate of Occupancy and use	undated	Partial	Sch 2, s 2.2(a)(ii)	Yes
101	6	79	B20202370 – Relocation of Demountable – Certificate of Occupancy - Certificate of occupancy and use application – Certificate of occupancy	24/06/2020	Partial	Sch 2, s 2.2(a)(ii)	Yes
102	6	80-82	B20202370 – Relocation of Demountable – Certificate of Occupancy – COU Checklist Commercial	24/06/2020	Partial	Sch 2, s 2.2(a)(ii)	Yes
103	7	1	B20206746 – Solar PV Installation – Plans – Approved plan	08/10/2020	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
104	7	2	B20206746 – Solar PV Installation – Documents – Invoice for Fees and Levies	23/12/2020	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
105	7	3-5	B20206746 – Solar PV Installation – Documents – certifier approval letter	23/12/2020	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
106	7	6-7	B20206746 – Solar PV Installation – Documents – Building approval	23/12/2020	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
107	7	8-9	B20206746 – Solar PV Installation – Documents – Site work notice	23/12/2020	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
108	7	10-12	B20206746 – Solar PV Installation – Documents – Application for building commencement notice	12/12/2020	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
109	7	13-14	B20206746 – Solar PV Installation – Documents - Application for building commencement notice	undated	Partial	Sch 2, s 2.2(a)(ii)	Yes
110	7	15-16	B20206746 – Solar PV Installation – Documents – Building commencement Notice	23/12/2020	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
111	7	17-19	B20206746 – Solar PV Installation – Documents – Appointment of a certifier application for building approval	22/12/2020	Partial	Sch 2, s 2.2(a)(ii) Sch 2 s 2.2(a)(xi)	Yes
112	7	20-21	B20206746 – Solar PV Installation – Documents - B20206746 – Solar PV Installation – Documents – Appointment of a certifier application for building approval	undated	Partial	Sch 2 s 2.2(a)(xi)	Yes
113	7	22-23	B20206746 – Solar PV Installation – Documents - checklist	03/02/2021	Partial	Sch 2 s 2.2(a)(xi)	Yes

**Total
No of
Docs**

From: [Buddhadasa Ajith](#)
To: Sch 2.2(a)(ii)
c: brendonmajor@bcc.act.edu.au
Subject: Stop Notice - B4 S41 Lyneham
Date: Monday, 13 ebruary 2023 3:32:00 PM
Attachments: [image001.jpg](#)
[Stop Notice- B004 S041 - Lyneham - B_lassroom building.pdf](#)

OFFICIAL

Dear Sch 2.2(a)(ii)

Please find attached stop notice in relation to the classroom building being constructed on B4 S41 Lyneham – BCC School premise.

If you wish to discuss this further please contact me.

Regards

Ajith Buddhadasa

**Assistant Director – Manager - Rapid Regulatory Response Team | Building and Planning
Compliance**

Construction Utilities and Environment Protection

Access Canberra | ACT Government

TP – 02 6205 8359

8 Darling Street, Mitchell | GPO Box 158 Canberra City ACT 2601 | <http://www.act.gov.au/accesscbr>





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Stop Notice

Contact Area	Contact email
Rapid Regulatory Response Team (RRRT)	rrt@act.gov.au

Builder name and license number	Lessee
Sch 2.2(a)(ii)	Brindabella Christian Education Limited

Suburb	Section	Block	Stage of development
Lyneham	41	4	

I Ajith Buddhadasa, Building Inspector, hereby **prohibit** the carrying out of building work, on the above-mentioned parcel of land pursuant to Section 53(1) of the *Building Act 2004*.

A site inspection was conducted on 09/02/2023 by Rapid Regulatory Response Team (RRRT) Inspectors in relation to the concerned two storey classroom building being constructed within the Brindabella Christian College (BCC) premise on B4 S41 Lyneham. Inspectors observed a two-storey structure of the building, roof over the building, stairwell structure and an elevated bridge connection being constructed (see Attachment 1 for photos).

The building is a two storey BCA Class 9b building which is not identified in Schedule 1 of the *Building Act 2004* as an exempt from requiring a building approval (BA). Therefore, the building being constructed required a BA.

Section 42 - Requirements for carrying out building work:

Section 42(1)(d) of the Building Act state that the building work must be carried out in accordance with the approved plans.

Section 51 - Carrying out building work in contravention of s 42:

Section 51(1) state that it is an offence for a license builder to carryout building work in contravention of Section 42 of the Building Act - Maximum penalty: 50 penalty units

Therefore, no further building work is to be carried out on site until a building approval for the development has obtained.

Building work is being carried out:

- (a) without a building approval having been issued for the work.
- (b) otherwise, than in accordance with the approved plans for the building work;
- (c) in accordance with a building approval that is, or part of which is, defective because it contains information that—
- (i) is false, misleading or inaccurate in a material respect; or
 - (ii) conflicts with other information in the approval so that carrying out building work, or site work that materially affects the building work, in accordance with the approval or part—
 - (A) is not physically possible; or
 - (B) is unlikely to be physically possible without amending the building approval; or
 - (C) is likely to contravene this Act, another territory law or a condition of a consent that applies to the building work or a lease, licence, permit or other authority that applies to the land where the building work is being carried out; or;
- (d) contrary to a provision of this Act relating to the building work; or



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- (e) if the building work is being carried out on a parcel of land held under lease from the Commonwealth—contrary to a provision, covenant or condition of the lease; or
- (f) for building work forming part of a development requiring development approval—without development approval; or
- (g) for building work forming part of a development with development approval—contrary to the approval, or a condition of the approval; or
- (h) for building work for an exempt building—so that the building, or part of the building, is or will be on an easement.

A tick in a box indicates the particular ground on which the notice is issued.

Ajith Buddhadasa

13/02/2023

Building Inspector

Sch 2.2(a)(ii)

Important Information

Section 142C – Applications for review - See reverse side for advisory information.
Provided in accordance with s 7 of the *ACT Civil and Administrative Tribunal Regulation 2009*

REVIEW OF THE DECISION BY THE ACT CIVIL AND ADMINISTRATIVE TRIBUNAL

You may apply to the ACT Civil and Administrative Tribunal (**ACAT**) for administrative review of this decision.

CONTACT DETAILS

Location	Contact details
ACT Civil and Administrative Tribunal Level 4, 1 Moore Street CANBERRA CITY ACT 2601	Website: www.acat.act.gov.au Email: tribunal@act.gov.au Telephone: (02) 6207 1740 Facsimile: (02) 6205 4855 Post: GPO Box 370, CANBERRA, ACT, 2601

APPLICATIONS TO THE ACAT

To apply for a review, obtain an application form from the ACAT. You can also download the [Application for review of a decision](#) form from the ACAT website.

TIME LIMITS FOR APPLICATIONS

The time limit to make a request for a review is 28 days from the date that you receive this Notice of Decision.



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FEES

Applications to the ACAT, including an application to be joined as a party to a proceeding, require payment of a fee. You can apply to have the fee waived on the grounds of hardship, subject to approval (refer to section 22T of the *ACT Civil and Administrative Tribunal Act 2008*).

TRANSLATION AND INTERPRETER SERVICES

The ACT Government's translation and interpreter service runs 24 hours a day, every day of the week.

ENGLISH	If you need interpreting help, telephone:
ARABIC	: إذا احتجت مساعدة في الترجمة الشفوية ، إتصل برقم الهاتف :
CHINESE	如果你需要传译员的帮助，请打电话：
CROATIAN	Ako trebate pomoć tumača telefonirajte:
GREEK	Αν χρειάζεστε διερμηνέα τηλεφωνήσετε στο
ITALIAN	Se avete bisogno di un interprete, telefonate al numero:
MALTESE	Jekk għandek bżonn l-għajnuna t'interpretu, ċempel:
PERSIAN	: اگر به ترجمه شفاهی احتیاج دارید به این شماره تلفن کنید:
PORTUGUESE	Se você precisar da ajuda de um intérprete, telefone:
SERBIAN	Ako vam je potrebna pomoć prevodioca telefonirajte:
SPANISH	Si necesita la asistencia de un intérprete, llame al:
TURKISH	Tercümana ihtiyacınız varsa lütfen telefon ediniz:
VIETNAMESE	Nếu bạn cần một người thông-ngôn hãy gọi điện-thoại:

TRANSLATING AND INTERPRETING SERVICE

131 450

Canberra and District - 24 hours a day, seven days a week

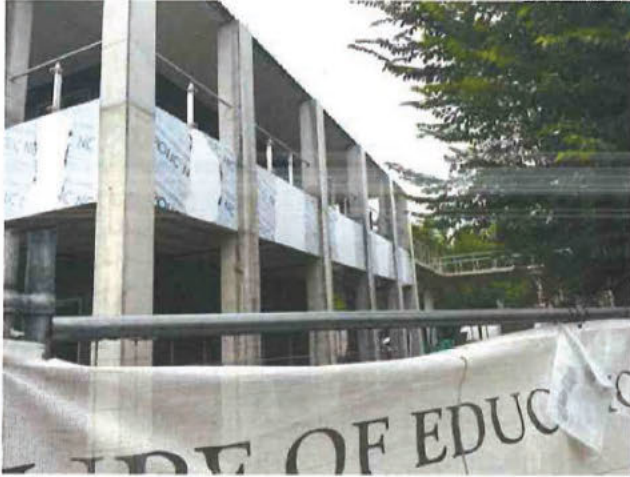


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Attachment 1:

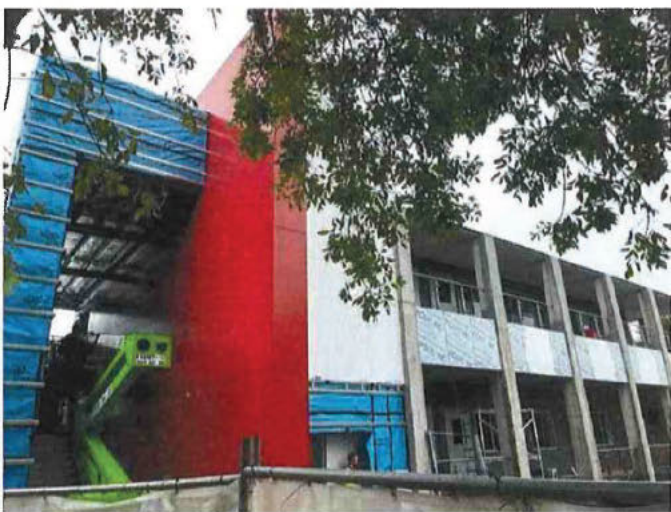




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Stop Notice



From: Mahajan, Shiwali
To: brendonmajor@bcc.act.edu.au; Sch 2.2(a)(ii)
Subject: Stop Notice -S41 B4 Lyneham
Date: Thursday, 10 August 2023 12:08:00 PM
Attachments: [Stop Notice - S41 B4 Lyneham.docx.pdf](#)
[image002.png](#)

OFFICIAL

Dear  and Brendon

Please find attached the Stop Notice for your consideration and necessary action.

Kind regards

Shiwali Mahajan

Building Inspector and Compliance Regulator | Rapid Regulatory Response Team
Construction, Environment and Workplace Protection
Access Canberra | ACT Government
TP – 02 6207 8629 / email: Shiwali.mahajan@act.gov.au
8 Darling Street, Mitchell | GPO Box 158 Canberra City ACT 2601 |
<http://www.act.gov.au/accesscbr>





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Stop Notice

Contact Area		Contact email	
Rapid Regulatory Response Team (RRRT)		rrt@act.gov.au	
Builder name (and licence number)		Lessee	
Sch 2.2(a)(ii)		Brindabella Christian Education Limited	
Suburb	Section	Block	Stage of development
Lyneham	41	4	

I Ajith Buddhadasa, Building Inspector, hereby **prohibit** the carrying out of building work, on the above-mentioned parcel of land pursuant to Section 53(1) of the *Building Act 2004*.

A site inspection was conducted on 09/08/2023 by Rapid Regulatory Response Team (RRRT) Inspectors in relation to the concerned about no public notification of building works signage regarding construction of a 2-storey classrooms block and covered walkway still under construction since March 2021 NOR any building works notification or signage for new demountable buildings installed the week of 10/7/23. These demountable structures along Brigalow St boundary are encroaching significantly into Early Learning Centre (ELC) mandatory outdoor play designated area in breach of ELC licence.

The site inspection was conducted within the Brindabella Christian School (BCC) premise on B4 S41 Lyneham. At the time of inspection RRRT inspectors spoke to the building manager of BCC and he confirmed that builder is in process of obtaining a building approval for the demountable classroom structure. The building manager also confirmed that the Education Directorate officials had already visited the site on 09/08/2023 morning and they were satisfied that the outdoor open area provided to ELC complies with their requirement.

The building is a two storey BCA Class 9b building which is not identified in Schedule 1 of the *Building Act 2004* as an exempt from requiring a building approval (BA). Therefore, the building being constructed required a BA.

Section 42 - Requirements for carrying out building work:

Section 42(1)(d) of the Building Act state that the building work must be carried out in accordance with the approved plans.

Section 51 - Carrying out building work in contravention of s 42:

Section 51(1) state that it is an offence for a license builder to carryout building work in contravention of Section 42 of the Building Act - Maximum penalty: 50 penalty units

Therefore, no further building work is to be carried out on site until a building approval for the development has obtained.

Building work is being carried out:

- (a) without a building approval having been issued for the work.
- (b) otherwise, than in accordance with the approved plans for the building work;
- (c) in accordance with a building approval that is, or part of which is, defective because it contains information that—



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- (i) is false, misleading or inaccurate in a material respect; or
- (ii) conflicts with other information in the approval so that carrying out building work, or site work that materially affects the building work, in accordance with the approval or part—
 - (A) is not physically possible; or
 - (B) is unlikely to be physically possible without amending the building approval; or
 - (C) is likely to contravene this Act, another territory law or a condition of a consent that applies to the building work or a lease, licence, permit or other authority that applies to the land where the building work is being carried out; or;
- (d) contrary to a provision of this Act relating to the building work; or
- (e) if the building work is being carried out on a parcel of land held under lease from the Commonwealth—contrary to a provision, covenant or condition of the lease; or
- (f) for building work forming part of a development requiring development approval—without development approval; or
- (g) for building work forming part of a development with development approval—contrary to the approval, or a condition of the approval; or
- (h) for building work for an exempt building—so that the building, or part of the building, is or will be on an easement.

A tick in a box indicates the particular ground on which the notice is issued.

Ajith Buddhadasa

10/08/2023

Building Inspector

Sch 2.2(a)(ii)

Important Information

Section 142C – Applications for review - See reverse side for advisory information.
Provided in accordance with s 7 of the *ACT Civil and Administrative Tribunal Regulation 2009*

REVIEW OF THE DECISION BY THE ACT CIVIL AND ADMINISTRATIVE TRIBUNAL

You may apply to the ACT Civil and Administrative Tribunal (**ACAT**) for administrative review of this decision.

CONTACT DETAILS

Location	Contact details
ACT Civil and Administrative Tribunal Level 4, 1 Moore Street CANBERRA CITY ACT 2601	Website: www.acat.act.gov.au Email: tribunal@act.gov.au Telephone: (02) 6207 1740 Facsimile: (02) 6205 4855 Post: GPO Box 370, CANBERRA, ACT, 2601



ACT
Government

Chief Minister, Treasury and
Economic Development

Stop Notice

APPLICATIONS TO THE ACAT

To apply for a review, obtain an application form from the ACAT. You can also download the Application for review of a decision form from the ACAT website.

TIME LIMITS FOR APPLICATIONS

The time limit to make a request for a review is 28 days from the date that you receive this Notice of Decision.

FEES

Applications to the ACAT, including an application to be joined as a party to a proceeding, require payment of a fee. You can apply to have the fee waived on the grounds of hardship, subject to approval (refer to section 22T of the *ACT Civil and Administrative Tribunal Act 2008*).

TRANSLATION AND INTERPRETER SERVICES

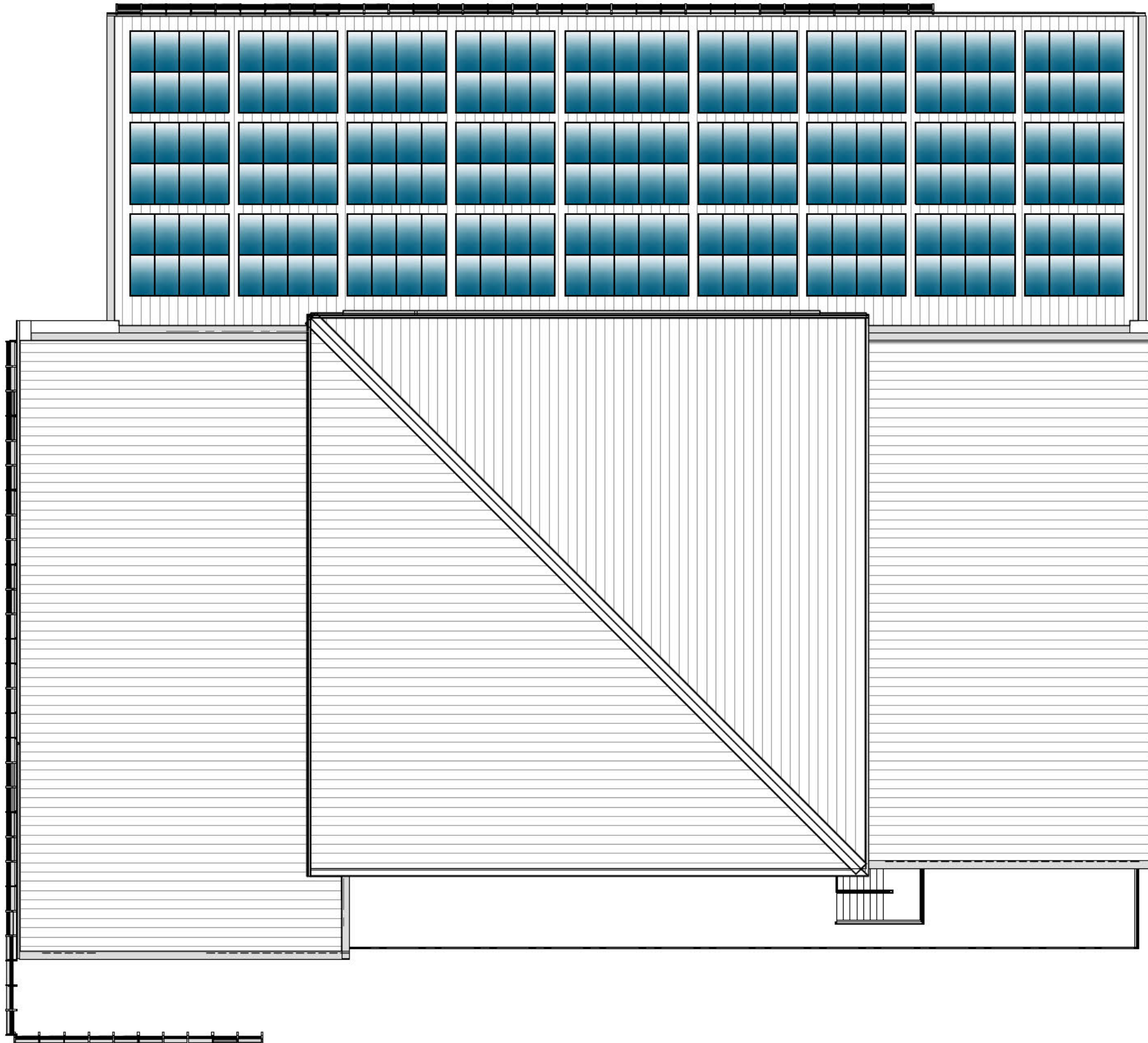
The ACT Government's translation and interpreter service runs 24 hours a day, every day of the week.

ENGLISH	If you need interpreting help, telephone:
ARABIC	: إذا احتجت لمساعدة في الترجمة الشفوية ، إتصل برقم الهاتف :
CHINESE	如果你需要传译员的帮助，请打电话：
CROATIAN	Ako trebate pomoć tumača telefonirajte:
GREEK	Αν χρειάζεστε διερμηνέα τηλεφωνήσετε στο
ITALIAN	Se avete bisogno di un interprete, telefonate al numero:
MALTESE	Jekk għandek bżonn l-għajnuna t'interpretu, ċempel:
PERSIAN	: اگر به ترجمه شفاهی احتیاج دارید به این شماره تلفن کنید:
PORTUGUESE	Se você precisar da ajuda de um intérprete, telefone:
SERBIAN	Ако вам је потребна помоћ преводноица телефонирајте:
SPANISH	Si necesita la asistencia de un intérprete, llame al:
TURKISH	Tercümana ihtiyacımız varsa lütfen telefon ediniz:
VIETNAMESE	Nếu bạn cần một người thông-ngôn hãy gọi điện-thoại:

TRANSLATING AND INTERPRETING SERVICE

131 450

Canberra and District - 24 hours a day, seven days a week



Sch 2.2(a)(ii)



Sch 2.2(a)(xi)

PV System Roof Layout

Brindabella Christian College
Junior School Building
136 Brigalow St, Lyneham ACT 2602

Sch 2.2(a)(xi)



APPOINTMENT OF BUILDER & APPLICATION FOR COMMENCEMENT NOTICE

Building Act 2004, S151

In completing this form the owner is authorising the builder nominated below to apply to the appointed certifier to issue a Commencement Notice for the works detailed in this application form.

PART A PROJECT DETAILS

Block Section Suburb Unit No.

Street Address

Certifier Name

Description of Building Works relevant to this application-If more than 6 items please attach further details

- 1
- 2
- 3
- 4

PART B OWNER DETAILS - Please Print

All owners must be listed Owner 1 will be considered the contact person in relation to this application

Company Details

Owner 1 Owner 2

Owner 3 Owner 4

Postal Address

Suburb State Postcode

Phone Number Business Hours Mobile

EMAIL ADDRESS

PART C APPOINTMENT OF BUILDER

If we the owner/s have appointed the person whose details appear below as the builder in relation to the building works described in this form

Licence Holders Name as it appears on licence card **Sch 2.2(a)(ii)**

Licence Number **Sch 2.2(a)(ii)** Class **Sch 2.2(a)(ii)** Expiry Date **11/01/21**

List any conditions or endorsements on licence **Sch 2.2(a)(ii)**

EMAIL ADDRESS **Sch 2.2(a)(ii)**

PART D NOMINEE'S DETAILS
If the builder is a company or partnership provide details of the Nominee who will supervise the building

Nominee's Name **Sch 2.2(a)(ii)**

Licence Number **Sch 2.2(a)(ii)** **Sch 2.2(a)(ii)** Expiry Date **11/01/21**

Signature of Nominee **Sch 2.2(a)(ii)** Date **29/1/18**

PART E OWNER SIGNATURE/S--all owners must sign this form

Owner 1	Sch 2.2(a)(ii)	Signature	Sch 2.2(a)(ii)	DATE:	
Owner 2	Sch 2.2(a)(ii)	Signature	Sch 2.2(a)(ii)	DATE:	29/1/18
Owner 3	Sch 2.2(a)(ii)	Signature	Sch 2.2(a)(ii)	DATE:	Sch 2.2(a)(ii)
Owner 4	Sch 2.2(a)(ii)	Signature	Sch 2.2(a)(ii)	DATE:	Sch 2.2(a)(ii)

PART F BUILDER APPLICATION TO CERTIFIER FOR COMMENCEMENT NOTICE

I hereby apply to the building certifier listed above for a commencement notice for the works detailed in Part A of this form in accordance with the Building Act 2004.

- A site sign was not required to be displayed prior to making this application.
- A site sign was required to be erected and displayed for **Sch 2.2(a)(ii)** application and I declare that a compliant sign was

Signature of Builder **Sch 2.2(a)(ii)** Date **29/1/18**

NOTE: There are penalties for deliberately giving false information and Land Authority or Minister may revoke an approval if satisfied that the approval was obtained by fraud

PART G INSURANCE OR FIDELITY CERTIFICATE

For residential building work please provide details of insurance where applicable

Insurance Provider Policy No. Date Issued



Building Act 2004, S151

Application for Building Commencement Notice

Project ID: B2018238

Licensed builders must use this form to apply to the building certifier for a commencement notice in accordance with the Building Act 2004. An application can only be made if the building approval has been issued for the building work. A commencement notice must be issued by the building certifier before any building work can commence.

PART A - PROJECT DETAILS

Building approval issue date: 30/01/2018

Unit	Block	Section	District (Suburb)	Division	Jurisdiction
	4	41	CANBERRA CENTRAL	LYNEHAM	Australian Capital Territory

Full Name	Address	License Number	Expiry Date
Sch 2.2(a)(xi)	Sch 2.2(a)(ii)	Sch 2.2(a)(ii)	Sch 2.2(a)(ii)

Description of work to which application for Commencement Notice relates:

Class of Occupancy	Nature of Work	Project Item Description	Other Description	Type Of Construction	Storeys	Area (m2)	Cost of Works (\$)
10b	Other	DA EXEMPT-SEE DESCRIPTION	PV Installation to Roof	NA	0	0.00	Sch 2.2(a)(xi)

Insurance provider:

Policy number:

Issue date: 30/01/2018

PART B - BUILDERS DETAILS

License holder's name:

Sch 2.2(a)(ii)

License number:

License Expiry Date:

Business Address:

Phone Number:

Signature of builder:

(Individual, director for company or partner for partnership)

If the builder is a company or partnership provide details of the nominee who will supervise the building work

Nominee's name: Sch 2.2(a)(ii)
 License number:
 License Expiry Date:
 Nominee's signature
 (if different to above): _____ / /

PART C - OWNER/LESSEE DETAILS

Name	Address
Brindabella Christian Education Ltd	PO Box 5103, Lyneham ACT 2006, AUSTRALIA

ADVISORY NOTE: Owners please ensure you have a written contract with the builder named in this application. For residential building work requiring home owner insurance ensure that the same builders name is shown on the insurance policy.

PART D - OWNER/S OR AGENT SIGNATURE/S

Name	Signature	Date
Brindabella Christian Education Ltd		

NOTE: You may only make this application as an authorised agent on behalf of the owners of the property if you have appropriate written authorisation from ALL the owners and attach it to this application. This also applies if you are a part owner or joint owner making an application on behalf of the owners.

Privacy Notice: The personal information on this form is being collected to enable processing of your application and to enable auditing and compliance of builders and certifiers by the Government appointed auditor. The information that you provide may be disclosed to the Australian Bureau of Statistics, ACT Revenue Office and the Taxation Office. The information may also be accessed by other government agencies and commercial organisations interested in building information.

PART E - BUILDER APPLICATION TO CERTIFIER FOR COMMENCEMENT NOTICE

I hereby apply to the building certifier listed above for a commencement notice for the works detailed in Part A of this form in accordance with the Building Act 2004.

- A site sign was NOT required to be displayed prior to making this application.
- A site sign WAS required to be displayed prior to making this application and I declare that a compliant sign was erected and displayed for the required period.

Signature of
 Builder/Nominee: _____ / /

NOTE: There are penalties for deliberately giving false and misleading information. Access Canberra or the Minister may revoke an approval if satisfied that the approval was obtained by fraud or misrepresentation.



Building Act 2004, S151

**Appointment of a Certifier and
Application for Building Approval**

Project ID: B2018238

This form is to be completed by the Owner/s of the land to which the building work relates

PART A - PROJECT DETAILS

Unit	Block	Section	District (Suburb)	Division	Jurisdiction
	4	41	CANBERRA CENTRAL	LYNEHAM	Australian Capital Territory

PART B - OWNER DETAILS

Name	Address	Email Address
Brindabella Christian Education Ltd	PO Box 5103, Lyneham ACT 2006, AUSTRALIA	

PART C - APPOINTMENT OF CERTIFIER

As required under the Building ACT 2004 I/we hereby advise that I/we the owner/s have appointed the person whose details appear below as the certifier in relation to the building works described in this form

Full Name	Address	License Number	Expiry Date
CERTIFIED BUILDING SOLUTIONS PTY LTD	PO Box 76 MITCHELL ACT 2911	200426203	2/09/2018

PART D - APPLICATION FOR BUILDING APPROVAL

I/we the owners of the abovementioned property hereby apply to the certifier named above to issue a building approval under Section 26 of the Building Act 2004 for the building works detailed in the following table

Class of Occupancy	Nature of Work	Project Item Description	Other Description	Type Of Construction	Storeys	Area (m2)	Cost of Works (\$)
10b	Other	DA EXEMPT-SEE DESCRIPTION	PV Installation to Roof	NA	0	0.00	Sch 2.2(a)(xi)

I/we have provided the certifier with the information and documentation required to issue a building approval as specified in the Building (General) Regulation 2008.

PART E - AUTHORITY TO ACCESS BUILDING FILE

I/we hereby authorise the certifier to access the building file held by Access Canberra for the property which is the subject of this application for the purposes of obtaining information relevant to the issuing of a building approval and associated processes.

PART F - OWNER/S SIGNATURE/S

Name	Signature	Date
Brindabella Christian Education Ltd		

**APPLICATION FOR BUILDING APPROVAL REQUIREMENTS
Building (General) Regulations 2008**

Where relevant the following information **MUST** be included in either the application or the plans accompanying the application for building approval:

General Requirements

- Estimated Cost of Works -as per Building (General) (Cost of Building Work) Determination 2011
- if the proposed building work to be carried out at or near a street or place that is open to or used by the public the application must contain details of the precautions proposed to be taken to protect the safety of people using the street or place while the building work is carried out
- the area of the parcel of land to which this application relates
- the class of the building according to the intended use of the building as proposed to be erected or altered;
- if applicable what fire-resisting construction type (under the building code) the building as proposed to be erected or altered will be.

Note: Fire-resisting construction type may not be applicable if an alternative solution under the building code is used.

- for an application relating to the erection of a class 1 building the site classification of the parcel of land
- for an application relating to the alteration of a class 1 building if the alteration will increase the building load carried by foundation material beyond the building load carried by the foundation before the alteration.

- the site classification of the parcel of land

- for an application relating to the alteration of a building the class and type of fire-resisting construction of the existing building classified under the building code and the materials used in the existing building

Note Fire-resisting construction type may not be applicable if an alternative solution under the building code is used.

- the number of storeys of the building as proposed to be erected or altered;
- the number of new dwellings (if any) created by the proposed building work;
- the floor area of the proposed building or proposed new part of the building;
- the materials to be used in the frame, floor, walls and roof of the proposed building or proposed new part of the building
- if a performance requirement of the building code is to be complied with by use of an alternative solution under the code -

(i) the performance requirement; and

(ii) the alternative solution; and

(iii) each assessment method used to show that the alternative solution complies with the performance requirement;

- if the building code does not state a standard of work in relation to any part of the proposed building work and it is intended to carry out that part of the proposed building work in accordance with a standard of work stated in another document -

(i) the nature of the proposed building work; and

(ii) the title of the document; and

(iii) each assessment method used to show that the proposed building work complies with the standard of work stated in the document.

Removal or demolition of building/s

- Details of the methods to be used in carrying out the proposed building work, including a work plan stated or set out in AS 2601 (Demolition of structures), as in force from time to time;
- the number of dwellings (if any) to be demolished.

Asbestos

- The application must include a description of the method proposed to be used to remove the bonded asbestos sheeting from the building.

- the application must include the following information:

(i) the method proposed to be used to remove the asbestos;

(ii) the approximate amount and kind of asbestos to be removed;

(iii) the equipment proposed to be used to remove the asbestos, including any personal protective equipment;

(iv) details of a program, prepared in accordance with the asbestos removal code, for monitoring airborne asbestos to be followed during the removal.



**APPOINTMENT OF A CERTIFIER
APPLICATION FOR BUILDING APPROVAL**
Building Act 2004, S151

This form is to be completed by the Owner/s of the land to which the building work relates.

PART A PROJECT DETAILS

Block Section Suburb Unit No.

Street Address

Description of Building Works relevant to this application-*if more than 4 items please attach further details*

Describe each item of building work in this building approval	BCA Occupancy Class	BCA Construction Type	Area (m ²)	Number of Storeys	Cost of Works (refer to building cost)
1 Sch 2.2(a)(xi)	106	N/A	-	N/A	Sch 2.2(a)(xi)
2					
3					
4					

Applicable approved requirements and reasons why building approval is not prevented from being issued

Is all work exempt from development approval?

- YES Attach assessment for exempt development checklist (if applicable)
- NO Provide reason/s or description of work: _____

Description of Attachments compliant with Division 3.3 Building Act 2004

Please attach any additional documentation not listed below

- Building Approval Plans
- Referrals, consultations & consents outcomes
- Asbestos Advice - If documents accompanying building approval do not include an asbestos assessment report as per the Building Act 2004, the building approval must have an AA attached as per the Act

PART B OWNER'S DETAILS -- Please Print

All owners must be listed

Owner 1 will be considered the contact person in relation to this application

Company Details

ACN/ABN Number

Owner 1 Owner 2 _____
Owner 3 _____ Owner 4 _____

Approved form AF2016-85 approved by David Middlemiss, Construction Occupations Deputy Registrar on 10 August 2016 under section 151 of the Building Act 2004 and revokes AF2016-80.

PART B continued **OWNER/S DETAILS – Please Print**

Postal Address

Suburb State Postcode

Phone Number Business Hours Mobile

EMAIL ADDRESS

PART C **APPOINTMENT OF CERTIFIER**

As required under the Building ACT 2004 I/we hereby advise that I/we the owner/s have appointed the person whose details appear below as the certifier in relation to the building works described in this form

Company Details

Name of Certifier ABN/ACN

Postal Address

Suburb State Postcode

Phone Number Business Hours Mobile

EMAIL ADDRESS

PART D **APPLICATION FOR BUILDING APPROVAL**

I/we the Owner/s of the abovementioned property hereby apply under Section 26 of the *Building Act 2004* to the certifier named above to issue a building approval for the building work described in this form. I/we have provided the certifier with information and documentation required to issue a building approval as specified in the *Building (General) Regulation 2008*.

PART E **AUTHORITY TO ACCESS BUILDING FILE**

I/we hereby authorise the certifier to access the building file for the property which is the subject of this application for the purposes of obtaining information relevant to the issuing of a building approval and associated processes.

PART F **OWNER/S SIGNATURE/S**

1st Owner's Signature Date

2nd Owner's Signature Date

3rd Owner's Signature Date

4th Owner's Signature Date

NOTE: There are penalties for deliberately giving false and misleading information. The Planning and Land Authority or Minister may revoke an approval if satisfied that the approval was obtained by fraud or misrepresentation.

APPLICATION FOR BUILDING APPROVAL REQUIREMENTS – Building (General) Regulations 2008

Where relevant the following information MUST be included in either the application or the plans accompanying the application for building approval:

General Requirements

- ▶ Estimated Cost of Works - as per *Building (General) (Cost of Building Work) Determination 2015*
- ▶ if the proposed building work to be carried out at or near a street or place that is open to or used by the public the application must contain details of the precautions proposed to be taken to protect the safety of people using the street or place while the building work is carried out
- ▶ the area of the parcel of land to which this application relates
- ▶ the class of the building according to the intended use of the building as proposed to be erected or altered;
- ▶ if applicable what fire-resisting construction type (under the building code) the building as proposed to be erected or altered will be
 - Note: Fire-resisting construction type may not be applicable if an alternative solution under the building code is used*
- ▶ for an application relating to the erection of a class 1 building the site classification of the parcel of land
- ▶ for an application relating to the alteration of a class 1 building if the alteration will increase the building load carried by foundation material beyond the building load carried by the foundation before the alteration
- ▶ the site classification of the parcel of land
- ▶ for an application relating to the alteration of a building the class and type of fire-resisting construction of the existing building classified under the building code and the materials used in the existing building
 - Note: Fire-resisting construction type may not be applicable if an alternative solution under the building code is used*
- ▶ the number of storeys of the building as proposed to be erected or altered;
- ▶ the number of new dwellings (if any) created by the proposed building work;
- ▶ the floor area of the proposed building or proposed new part of the building;
- ▶ the materials to be used in the frame, floor, walls and roof of the proposed building or proposed new part of the building
- ▶ if a performance requirement of the building code is to be complied with by use of an alternative solution under the code -
 - (i) the performance requirement; and
 - (ii) the alternative solution; and
 - (iii) each assessment method used to show that the alternative solution complies with the performance requirement;
- ▶ if the building code does not state a standard of work in relation to any part of the proposed building work and it is intended to carry out that part of the proposed building work in accordance with a standard of work stated in another document -
 - (i) the nature of the proposed building work; and
 - (ii) the title of the document; and
 - (iii) each assessment method used to show that the proposed building work complies with the standard of work stated in the document.

Removal or demolition of building/s

- ▶ Details of the methods to be used in carrying out the proposed building work, including a work plan stated or set out in AS 2601 (Demolition of structures), as in force from time to time;
- ▶ the number of dwellings (if any) to be demolished.

Asbestos

- ▶ The application must include a description of the method proposed to be used to remove the bonded asbestos sheeting from the building
- ▶ the application must include the following information:
 - (i) the method proposed to be used to remove the asbestos;
 - (ii) the approximate amount and kind of asbestos to be removed;
 - (iii) the equipment proposed to be used to remove the asbestos, including any personal protective equipment;
 - (iv) details of a program, prepared in accordance with the asbestos removal code, for monitoring airborne asbestos to be followed during the removal.

Privacy Notice

The personal information on this form is provided to Access Canberra to enable the processing of your application. The collection of personal information is authorised by the *Building Act 2004*. If all or some of the personal information is not collected Access Canberra cannot process your application. The personal information you provide may be disclosed to Australian Bureau of Statistics, ACT Revenue Office and the Taxation Office. The information may also be disclosed where authorised by law or court order, or where the Directorate reasonably believes that the use or disclosure of the information is reasonably necessary for enforcement-related activities conducted by, or on behalf of, an enforcement body. Access Canberra's Information Privacy Policy contains information about how you may access or seek to correct your personal information held by Access Canberra, and how you may complain about an alleged breach of the Territory Privacy Principles. Access Canberra Information Privacy Policy can be found at www.act.gov.au/accessCBR

CONTACT INFORMATION

Email:

ACTPLAdevelopmentBA@act.gov.au

Post:

Access Canberra
Building Services
Shopfront Mitchell
GPO Box 158
Canberra, ACT 2601

In Person:

Please visit
www.act.gov.au/accessCBR
Or call 132281 to find an
Access Canberra Shopfront.

Brindabella Christian Education Ltd
 PO Box 5103
 Lyneham ACT 2006



ABN 27 110 342 482
 Unit 1, 25-35
 Buckland Street
 MITCHELL ACT 2911
 PO Box 76
 MITCHELL ACT 2911
 Telephone 02 6253 9911
 Fax 02 6253 9922

BUILDING APPROVAL CERTIFICATE

Location: Block 4 Section 41 Lyneham

Description of Building Work: Solar Panels to Building

BCA Occupancy Class: 10b

BCA Construction Type: N/A

Rise in Storeys: N/A

Building Approval.

Your application for building approval satisfies the Building Act 2004. Building approval is issued under s.28 of the Building Act 2004.

All work must comply with the:

1. Building Act 2004; and
2. National Construction Code 2016 Volume 1.

This approval expires three years from the date of this approval or at the expiry of the development approval, whichever occurs first.

Commencement

Building work may begin on the issue of the Building Commencement Notice.

Sincerely,

Sch 2.2(a)(ii)

Principal Building Surveyor
 Certified Building Solutions Pty Ltd
 COLA Lic No. 200426203

30/11/18

Reference No. 28947

SITE WORK NOTICE

For section 28 (1A) of the Building Act 2004

To be completed by the appointed Building Certifier and submitted to the Construction Occupations Registrar within 7 days of issue

Lease/Site Details

Block	<input type="text" value="A"/>	Section	<input type="text" value="A1"/>	Suburb	<input type="text" value="LYNEHAM"/>	Division	<input type="text"/>
Unit No	<input type="text"/>	Street Address	<input type="text" value="136 BRICALOW"/>				

Building Approval Application and Site Work Details

This notice is issued in relation to the site work shown in the plans submitted as part of the application for a building approval dated made by the following applicants:

BRINDABELLA

on: dated 29/1/2018

This notice applies to all site work in that application for which there is there is no—

- exemption assessment D notice stating that the site work is exempt development issued for the work not more than 3 months before the day the application was made;
- exemption declaration under the *Planning and Development Regulation 2008*, schedule 1, section 1.100A (1) (b) or section 1.100AB (1) (b) made by the planning and land authority; or
- current development approval issued in relation to the site work.

NOTE: Site work is development that is—

- building work; and
- work other than building work that—
 - physically affects the place (the building site) where the building work is being carried out; and
 - if not carried out at the building site, is carried out near, and connected with, the building site.

Examples: putting up temporary fencing, installing measures for erosion control, building a house, damaging or removing a significant tree, laying paving for driveways and parking areas, installing landscaping, site clearing and excavation, erecting site signage, erecting a pergola

Building Certifier Details *Please Print*

Surname	<input type="text" value="Certified Building Solutions Pty Ltd"/>	First Name	<input type="text"/>
Company Name	<input type="text" value="Certified Building Solutions Pty Ltd"/>		
Licence Number	<input type="text" value="200426203"/>	Contact Number	<input type="text" value="(02) 6253 9911"/>
Postal Address	<input type="text" value="PO Box 76"/>		
Suburb	<input type="text" value="Mitchell"/>	State	<input type="text" value="ACT"/>
		Postcode	<input type="text" value="2911"/>

Building Certifier Statement

I state that:

- the plans for the building work(s) to which the application for building approval relates show all the information necessary to establish that the site work is exempt development under the *Planning and Development Act 2007*, section 133; and
- the site work is exempt development; and
- I have assessed that the site work is exempt development for the following reasons and in accordance with the following provisions of the *Planning and Development Regulation 2008* and Territory Plan Codes:

The building work(s), as described on part A of the Appointment of Certifier Application for Building Approval Form, have been assessed against Part 1.2 & Part 1.3, Schedule 1 of *Planning and Development Regulations 2008*. They are consistent with the following sections of schedule 1 as nominated in the tables below. (Please tick all relevant)

Table 1: Building work(s) are exempt as per the Single Dwelling Housing Development Code

<input type="checkbox"/>	Assessment has been made under the Single Dwelling Housing Development Code(SDHDC)*	
	<input type="checkbox"/> Development on Old Res. Land (1.100)	Please list any further details below:
	<input type="checkbox"/> Development on New Res. Land (1.100AA)	
	<input type="checkbox"/> 1N Exemption Applies (1.100AB, 1.100AB)	
	<input type="checkbox"/> Demolition under SDHDC (1.100B, 1.101)	

*Please see attached copy of CBS Single Dwelling Assessment for Exempt Development sheet

Table 2: Building work(s) are exempt as per the following section of Schedule 1

<input type="checkbox"/>	Internal alterations (1.20)	<input checked="" type="checkbox"/>	Photovoltaic Panels (1.27A)
<input type="checkbox"/>	Low impact window & doors (1.21)	<input type="checkbox"/>	Roofed class 10a – enclosed or open to one side (1.45)
<input type="checkbox"/>	High impact window & doors (1.21a)	<input type="checkbox"/>	Roofed class 10a – unenclosed or partially open (1.46)
<input type="checkbox"/>	External refinishing of building (1.22)	<input type="checkbox"/>	Class 10a – external deck (1.48)
<input type="checkbox"/>	Maintenance (1.23)	<input type="checkbox"/>	Class 10a – external verandas (1.49)
<input type="checkbox"/>	Chimney/Flue/Vents (1.25)	<input type="checkbox"/>	Retaining Walls (1.53)
<input type="checkbox"/>	External Heater or Cooler (1.27)	<input type="checkbox"/>	Swimming Pool (1.54)
<input type="checkbox"/>	Other Please list:		

Table 3: Amended building work(s) are exempt as per the following section of Schedule 1

<input type="checkbox"/>	The building works(s), as per the amended stamped building approval, are within the permitted construction tolerances for horizontal siting and height tolerances schedule 1A (1A.10, 1A.11)
<input type="checkbox"/>	Other Please list:

Please list any further information that may be relevant in deciding that the works are exempt under Schedule 1 as identified above

Building Certifier Signature
(or nominee)

Sch 2.2(a)(ii)

Date of Issue

30/11/2018

is a serious offence

Privacy Notice

The personal information on this form is collected by the Environment Planning Directorate (EPD). The collection of personal information is authorised by the *Building Act 2004*. If all or some of the required personal information is not collected this notice is not considered complete. The personal information provided may be disclosed to Australian Bureau of Statistics, ACT Revenue Office and the Taxation Office. The information may also be disclosed where authorised by law or court order, or where the EPD reasonably believes that the use or disclosure of the information is reasonably necessary for enforcement-related activities conducted by, or on behalf of, an enforcement body. EPD's Information Privacy Policy contains information about how you may access or seek to correct your personal information held by EPD, and how you may complain about an alleged breach of the Territory Privacy Principles. The EPD Information Privacy Policy can be found at www.environment@act.gov.au.

Contact Details:

Environment and Planning Directorate
GPO Box 158, Canberra City 2601

Phone: (02) 6207 1923

TTY: (02) 6207 2622

Business Hours: 8.30am to 4.30pm weekdays (excluding Public Holidays)

Email: epdcustomerservices@act.gov.au Website: www.environment@act.gov.au

Customer Service Centres

8 Darling Street Mitchell, ACT 2911

16 Challis Street Dickson ACT 2602



Building Act 2004, S151

Building Approval

Project ID: B2018238

PART A - PROJECT DETAILS

Unit	Block	Section	Division (Suburb)	District	Jurisdiction
	4	41	LYNEHAM	CANBERRA CENTRAL	Australian Capital Territory

PART B - WORKS REQUIRING BUILDING APPROVAL

Item of building work to which this Building Approval relates:

Class of Occupancy	Nature of Work	Project Item Description	Other Description	Type Of Construction	Storeys	Area (m2)	Cost of Works (\$)
10b	Other	DA EXEMPT- SEE DESCRIPTION	PV Installation to Roof	NA	0	0.00	Sch 2.2(a)(xi)

The following work is exempt from development approval:

- Heating and cooling installations

PART C - CERTIFIERS DECLARATION

I declare that in issuing this building approval under section 28 of the Building Act 2004:

- I am satisfied on reasonable grounds that the plans meet each applicable approval requirement under section 29 and is not prevented from being issued under section 30 or section 30A
- I have supplied all documents as required under 3.3 Building Act 2004
- I have prepared a notice (building approval certificate) certifying what approval requirements apply to the application and why the building approval is not prevented from being issued; and
- I have given the building approval certificate to the applicant.

In performing services as a certifier in relation to the work detailed in this application I am not in breach of my entitlement to act as a certifier in accordance with the Building Act 2004.

Full Name	Address	License Number	Expiry Date
CERTIFIED BUILDING SOLUTIONS PTY LTD	PO Box 76 MITCHELL ACT 2911	Sch 2.2(a)(ii)	2/09/2018

Date Issued : 30/01/2018

NOTES

Utilities

This application must also be accompanied by a Statement of Compliance from each relevant utility provider (for water, sewerage, electricity and stormwater) which confirms that the location and nature of earthworks, utility connections, proposed buildings, pavements and landscape features comply with utility standards, access provisions and asset clearance zones.

Note 1: If there is no stormwater easement or Territory owned stormwater pipes located within the property boundary, a "Statement of Compliance" for stormwater from TAMS (Asset Acceptance) is not required to be obtained.

Note 2: Where there is conflict between planning and utility requirements, the utility requirements take precedence over other codified or merit provisions.

Utilities – Demolition Only

This application must be accompanied by a Statement of Endorsement for utilities (including water, sewerage, electricity and stormwater) stating that:

- all network infrastructure on or immediately adjacent to the site has been identified on the plan
- all potentially hazardous substances and conditions (associated with or resulting from the demolition process) that may constitute a risk to utility services have been identified
- all required network disconnections have been identified and the disconnection works comply with utility requirements
- all works associated with the demolition comply with and are in accordance with utility asset access and protection requirements

Note: The documentation provided to the utility provider for endorsement must be consistent with the documentation that forms part of a development approval or the documentation verified as exempt from requiring development approval by a licensed certifier.

Asbestos Advice

If documents accompanying building approval do not include an asbestos assessment report as per the Building Act 2004, the building approval must have an Asbestos Advice attached as per the Act

Privacy Notice: The personal information on this form is being collected to enable processing of your application and to enable auditing and compliance of builders and certifiers by the Government appointed auditor. The information that you provide may be disclosed to the Australian Bureau of Statistics, ACT Revenue Office and the Taxation Office. The information may also be accessed by other government agencies and commercial organisations interested in building information.



Building Act 2004, S151

Building Commencement Notice

Project ID: B2018238

PART A - PROJECT DETAILS

Unit	Block	Section	District (Suburb)	Division	Jurisdiction
	4	41	CANBERRA CENTRAL	LYNEHAM	Australian Capital Territory

Certifier's Details

Full Name	Address	License Number	Expiry Date
CERTIFIED BUILDING SOLUTIONS PTY LTD	PO Box 76 MITCHELL ACT 2911	Sch 2.2(a)(ii)	2/09/2018

Building approval issue date: 30/01/2018

Building Commencement Notice Required for:

Class of Occupancy	Nature of Work	Project Item Description	Other Description	Type Of Construction	Area (m2)	Cost of Works (\$)
10b	Other	DA EXEMPT-SEE DESCRIPTION	PV Installation to Roof	NA	0.00	Sch 2.2(a)(xi)

PART B - BUILDERS DETAILS

License holder's name: Sch 2.2(a)(ii)

License number:

License Expiry Date: 11/01/2021

Business Address:

Phone Number:

If the builder is a company or partnership provide details of the nominee who will supervise the building work

Nominee's name: Sch 2.2(a)(ii)

License number:

License Expiry Date: 11/01/2021

PART C - CERTIFIER'S DECLARATION

Issue date of commencement notice: 30/01/2018

Name of Certifier Issuing Notice: CERTIFIED BUILDING SOLUTIONS PTY LTD

Declaration:

This commencement notice is issued in accordance with the Building Act 2004, to the licensed builder stated above authorising the commencement of the stated building work. The issue of this commencement notice indicates that I am satisfied that the builders license authorises the work in the building approval. Where applicable for residential building work, I have been provided with a residential building insurance policy or fidelity certificate.

PLEASE NOTE:

A copy of the application for this commencement notice, this notice and where applicable the residential building insurance policy or fidelity certificate, must be given to the construction occupations registrar within one (1) week of the issue date.

This building commencement notice will end if-

- (a) for residential building work- the work is no longer insured; or
- (b) the building approval for the work ends

Privacy Notice: The personal information on this form is being collected to enable processing of your application and to enable auditing and compliance of builders and certifiers by the Government appointed auditor. The information that you provide may be disclosed to the Australian Bureau of Statistics, ACT Revenue Office and the Taxation Office. The information may also be accessed by other government agencies and commercial organisations interested in building information.



Building Approval Fees and Levies Tax Invoice

TO THE PAYEE

c/o Brindabella Christian Education Ltd

PO Box 5103, ,

Lyneham ACT 2006

Access Canberra Building Services

ABN 16 479 763 216
8 Darling Street Mitchell
GPO Box 158 ACT 2601
Access Canberra Homepage: www.act.gov.au/accesscbr

Invoice Date:30/01/2018 Time:2:55:41 PM

Invoice Number: 3100455538

Block - Section - Division - District	Building Levy	Training Levy	Fees Paid	Total
4 - 41 - LYNEHAM - CANBERRA CENTRAL Ref # - 28947	Sch 2.2(a)(xi)			
Total	Sch 2.2(a)(xi)			

No GST applies to these fees and levies.

PAYMENT REQUIRED WITHIN 14 DAYS OF INVOICE ISSUE DATE

Payment Options



Bill Code: Sch 2.2(a)(xi)
Ref: Sch 2.2(a)(xi)

Telephone & Internet Banking – BPAY®

Call your bank, credit union or building society to make this payment from your cheque, savings or credit card account. More info: www.bpay.com.au



Access
Canberra

Internet

Visit www.accesscanberra.act.gov.au and search "Building Approvals and Payments" and then follow links to pay by credit card (MasterCard or Visa)



Access
Canberra

Phone

Telephone (02) 6207 1923 8.30am - 4.30pm Mon - Fri and have your credit card details handy (MasterCard and Visa).



Access
Canberra

In Person

Access Canberra Building Services Shopfront Only: 8.30am – 4.30pm Mon – Fri . Cash, Cheque, EFTPOS, Credit card (Mastercard and Visa). CashLink Code – 34 0075

Brindabella Christian College
Creditor Invoice & Payment History

19

1/02/2018 to 1/02/2018

Invoice				Payment				
Batch	Reference	Date	Description	Inv. Amt	Amt	Batch & Type	Ref.	Pay Date
5	3100455538	1/02/2018	12Building Approval Fees and Levies/Canberra Cent	Sch 2.2(a)(i)				I
	3100455538		Building Approval Fees and Lev		Sch 2.2(a)(i)	7 A	Sch 2.2(a)(xi)	P
ACT ACCESS	Access Canberra Building Services			Sch 2.2(a)(i)				
				Sch 2.2(a)(i)				



Building Approval Fees and Levies Receipt



20

ACT
Government

Access Canberra Building Services

CERTIFIED BUILDING SOLUTIONS PTY LTD
PO Box 76 MITCHELL ACT 2911

ABN 16 479 763 216
16 Challis Street Dickson
GPO Box 158 ACT 2601
Access Canberra Homepage: www.act.gov.au/accesscbr

Payment Received: 2/2/2018

Payment for Invoice Number: 3100455538

Block	Section	District	Division	Building Lev	Training Lev	Workcover	Total Levies	Fees Paid
4	41	CANBERRA CENTRAL	LYNEHAM					
			Total					

Sch 2.2(a)(xi)

No GST applies to these fees and levies.

Sch 2.2(a)(xi), Sch 2.2(a)(ii)



APPLICATION FOR CERTIFICATE OF OCCUPANCY AND USE

Building Act 2004, S151

WARNING TO OWNERS
It is recommended that owners seek appropriate advice to determine whether the building work and other contract requirements have been completed satisfactorily before signing this form. This form should not be signed before the completion of building work.

PART A PROJECT DETAILS

Block/s Section Suburb Unit No.

Street Address

Describe each item of building work to which this application relates: If more than 6 items please attach further details

- 1.
- 2.
- 3.
- 4.

Name of Certifier:

PART B OWNER/LESSEE DETAILS

FULL NAME OF ALL OWNERS – All owners must be listed or application will not be processed
Please Print - Owner 1 will be considered the contact person in relation to this application

Company Details

Owner 1 Owner 2

Owner 3 Owner 4

Postal Address

Suburb State Postcode

Phone Number Business Hours Mobile

EMAIL ADDRESS

PART C DECLARATION BY OWNER/S

I am/we are: the owner(s) of the above described land

I am/we are satisfied that the building work and related requirements have been completed and hereby apply for a Certificate of Occupancy or Use in respect of the above described work to be issued and (select one option only):

- Email **Sch 2.2(a)(ii)**
- send certificate by post to the owner(s) address
- held for collection from Building Services Shopfront - Mitchell
- Other _____

PART D SIGNATURE/S OF OWNER/S

This form should **not** be signed before the completion of building work.

1 st Owner's Signature	Sch 2.2(a)(ii)	Date	22/1/18
2 nd Owner's Signature		Date	
3 rd Owner's Signature		Date	
4 th Owner's Signature		Date	

NOTE: There are penalties for deliberately giving false and misleading information. The Planning and Land Authority or Minister may revoke an approval if satisfied that the approval was obtained by fraud or misrepresentation.

Once this form has been completed you should give it to your certifier to lodge or hand deliver to:

**Access Canberra
Building Services Shopfront,
8 Darling Street
Mitchell ACT 2911**

Privacy Notice

The personal information on this form is provided to Access Canberra to enable the processing of your application. The collection of personal information is authorised by the *Building Act 2004*. If all or some of the personal information is not collected Access Canberra cannot process your application. The personal information you provide may be disclosed to Australian Bureau of Statistics, ACT Revenue Office and the Taxation Office. The information may also be disclosed where authorised by law or court order, or where the Directorate reasonably believes that the use or disclosure of the information is reasonably necessary for enforcement-related activities conducted by, or on behalf of, an enforcement body. Access Canberra's Information Privacy Policy contains information about how you may access or seek to correct your personal information held by Access Canberra, and how you may complain about an alleged breach of the Territory Privacy Principles. Access Canberra Information Privacy Policy can be found at www.act.gov.au/accessCBR

CONTACT INFORMATION

Email:
ACTPLAdevelopmentBA@act.gov.au

Post:
Access Canberra
Building Services
Shopfront Mitchell
GPO Box 158
Canberra, ACT 2601

In Person:
Please visit
www.act.gov.au/accessCBR
Or call **132281** to find an
Access Canberra Shopfront.

CERTIFIED BUILDING SOLUTIONS

INSPECTION REPORT

PO Box 76
Mitchell ACT 2911

TELEPHONE (02) 6253 9911
Fax (02) 6253 9922

Suburb <i>LYNEHAM</i>	Section <i>41</i>	Block <i>4</i>	Unit
Builder Sch 2.2(a)(ii)		Inspection Stage <i>Final</i>	

An inspection of the building work has been carried out:

As a result of that inspection I hereby certify that the building work complies with section 42 of the Building Act **2004**.

As a result of that inspection I have formed the opinion that the building work is not in compliance with section 42 of the Building Act **2004**. Please re-book this inspection stage when rectified.

The following matters require your attention:

Work may proceed to the next stage.

Work completed and the registrar would be justified in issuing a Certificate of Occupancy under section *69(2)*

Sch 2.2(a)(ii)

1/12/18



Building Act 2004, S151

Application for Certificate of Occupancy and Use

Project ID: B2018238C1

If this application is incomplete or documentation is inadequate this application may not be accepted for lodgement and the certificate of occupancy and use may not be issued.

WARNING TO OWNERS

It is recommended that owners seek appropriate advice to determine whether the building work and other contract requirements have been completed satisfactorily before signing this form. This form should not be signed before the completion of building work.

PROJECT DETAILS

Unit	Block	Section	Division (Suburb)	District	Jurisdiction
	4	41	LYNEHAM	CANBERRA CENTRAL	Australian Capital Territory

Description of Works

Class of Occupancy	Nature of Work	Project Item Description	Other Description	Type Of Const.	Unit	BCN ID	Builder
10b	Other	DA EXEMPT-SEE DESCRIPTION	PV Installation to Roof	NA		Sch 2.2(a)(ii)	Sch 2.2(a)(ii)

OWNER/LESSEE DETAILS

Name	Address	Email Address
Brindabella Christian Education Ltd	PO Box 5103, Lyneham ACT 2006, AUSTRALIA	

DECLARATION BY OWNER

I am/we are:

- the owner(s) of the above described land
- the agent authorised by the owner(s) to apply for a Certificate of Occupancy and Use on their behalf, and I have attached a letter of authority

I am/we are satisfied that the building work and related requirements have been completed and hereby apply for a Certificate of Occupancy and Use in respect of the above described work to be issued and (select one option only):

- sent by post to the owner(s) address
- sent by post to the agent's address; or
- held for collection from the Mitchell Customer Service Centre

This form should not be signed before the completion of building work.

Signature/s of Owners – all owners must sign if agent has not been appointed

Name	Signature	Date
Brindabella Christian Education Ltd		

Once complete, you should return this form to your certifier to lodge or return to the Access Canberra Building Services Shopfront, 8 Darling Street, Mitchell ACT 2911.

Privacy Notice: The personal information on this form is being collected to enable processing of your application and to enable auditing and compliance of builders and certifiers by the Government appointed auditor. The information that you provide may be disclosed to the Australian Bureau of Statistics, ACT Revenue Office and the Taxation Office. The information may also be accessed by other government agencies and commercial organisations interested in building information.



Building Act 2004, S151

Certification of Completion of Building Work

Project ID: B2018238/A

If this application is incomplete or documentation is inadequate this application may not be accepted for lodgement and the Certificate of Occupancy and Use may not be issued.

PART A - PROJECT DETAILS

Unit	Block	Section	District (Suburb)	Division	Jurisdiction
	4	41	CANBERRA CENTRAL	LYNEHAM	Australian Capital Territory

Plan Registration Number

B2018238/A

Description of Works

Class of Occupancy	Nature of Work	Project Item Description	Other Description	Type Of Construction	Unit	BCN ID	Builder
10b	Other	DA EXEMPT-SEE DESCRIPTION	PV Installation to Roof	NA		Sch 2.2(a)(ii)	Sch 2.2(a)(ii)

The project involved electrical work

The project did not involve plumbing or sanitary drainage work

The project did not involve gas work

This building work is not subject to an alternative solution under BCA

PART B - CERTIFIERS DECLARATION

I am satisfied that the building work detailed in the application is complete. I hereby certify that:

- I have provided all the relevant documents required by subsection 48(2) of the Building Act 2004 with this application as uploaded;
- the documentation relating to the building approval has been marked in accordance with the requirements of the Building Act 2004;
- The building work has been completed in accordance with the requirements of the Building Act 2004 and substantially in accordance with the approved plans;
- The building or part of the building as erected or altered is structurally sufficient, sound and stable for the purposes for which it is intended to be occupied or used; and
- The Registrar can issue a Certificate of Occupancy and Use

Full Name	Address	License Number	Expiry Date
CERTIFIED BUILDING SOLUTIONS PTY LTD	PO Box 76 MITCHELL ACT 2911	200426203	2/09/2018

Date Issued: 1/02/2018 3:18:08 PM

Privacy Notice: The personal information on this form is being collected to enable processing of your application and to enable auditing and compliance of builders and certifiers by the Government appointed auditor. The information that you provide may be disclosed to the Australian Bureau of Statistics, ACT Revenue Office and the Taxation Office. The information may also be accessed by other government agencies and commercial organisations interested in building information.

Block: 4

Section: 41

Suburb: Lyneham

Unit No

Project Number: B2018238

Certifier: Certified Building Solutions

General Documents	Yes	No	Comments
Application For Certificate of Occupancy and Use signed by ALL Lessees	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Government Fees paid	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Certificate of Completion of Building Work	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Has a 69(2B) Completion of Building Work and application for COU been applied for?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If yes, refer to ESDDCAT Date referred / /20
Has all work described in the BA been applied for	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If no, it may be a partial COU.
Has a 69(3) been applied for?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If yes, refer to ESDDCAT Date referred / /20
If a Development Application (DA) was relevant, was the work completed within the timeframe specified in the Notice of Decision (NOD)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A – Exempt from DA.
Electrical	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> N/A
Plumbing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A
Gas	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A
Alternative Solution	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A
Certifiers Documents	Yes	No	Comments
Final inspection record stating that the building work is compliant with section 42 of the Building Act 2004	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Alternative Solution	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A
Survey Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A
Insurance Certificate if work incorporates a class 1 or 2 under 3 storeys and cost of works greater than \$12,000	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A
Asbestos clearance certificate if work involves Asbestos Removal	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A

Fire Approval Certificates <input checked="" type="checkbox"/> N/A			
Fire Brigade approval for the erection of a commercial building larger than 500sqm	<input type="checkbox"/>	<input type="checkbox"/>	This document will have "ACT FIRE & RESCUE FIRE SECTION PLAN REPORT "on the front page.
Fire Brigade approval for the use of an alternative solution regarding fire protection	<input type="checkbox"/>	<input type="checkbox"/>	This document will have "ACT FIRE & RESCUE ALTERNATIVE SOLUTION REVIEW "on the front page.
Fire compliance/solution certificate	<input type="checkbox"/>	<input type="checkbox"/>	
Certifiers Documents <input checked="" type="checkbox"/> N/A	Yes	No	Comments
Waterproofing certificates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> N/A
Glazing Certificate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> N/A
Termite certificates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> N/A
Truss certificates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> N/A
Insulation certificate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> N/A
Amendments <input checked="" type="checkbox"/> N/A	Yes	No	Comments
Amendments fully described in eDevelopment	<input type="checkbox"/>	<input type="checkbox"/>	
Amendments clouded & listed on plans	<input type="checkbox"/>	<input type="checkbox"/>	
Plans stamped with certifier stamp	<input type="checkbox"/>	<input type="checkbox"/>	
Is work substantially different – not more than 1% change to original proposal	<input type="checkbox"/>	<input type="checkbox"/>	If yes, refer to ESDDCAT Date referred / /20
Government fees paid	<input type="checkbox"/>	<input type="checkbox"/>	

Officer Name: Jim Bobolas

Date: 02/02/18

Additional Comment COU issued



Certificate of Occupancy and Use

Certificate No.: **B2018238C1**

Access Canberra Building Services

ABN 16 479 763 216
8 Darling Street Mitchell
GPO Box 158 ACT 2601
www.act.gov.au/accesscbr

This Certificate is issued in accordance with Section 69 (2) of the Building Act 2004.

The building work listed on this certificate has been completed substantially in accordance with the prescribed requirements and is considered fit for occupation and use.

Unit	Block	Section	Division (Suburb)	District	Jurisdiction
	4	41	LYNEHAM	CANBERRA CENTRAL	Australian Capital Territory

Plans

B2018238/A

Building Works

Class of Occupancy	Nature of Work	Project Item Description	Other Description	Type Of Const.	Unit	BCN ID	Builder
10b	Other	DA EXEMPT- SEE DESCRIPTION	PV Installation to Roof	NA		Sch 2.2(a)(ii)	Sch 2.2(a)(ii)

Comments

Important Note:

1. Residential building statutory warranties and residential insurance do not apply in relation to building work.
2. The issue, under this Part, of a certificate in respect of a building or portion of a building does not affect the liability of a person to comply with the provisions of a law of the territory (including this Act) relating to the building or portion of the building.

Issued by: Jim Bobolas

Issued on: 02/02/2018

Delegate of the ACT Construction
Occupations Registrar.

PROPOSED DEMOUNTABLES AT BLOCK 4 SECTION 41, LYNEHAM ACT

GENERAL
a. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER RELEVANT DRAWINGS AND SPECIFICATIONS...

CONCRETE
a. ALL CONCRETE SHALL BE CAST IN ACCORDANCE WITH AS 3601. ALL CONCRETE SHALL BE CAST IN ACCORDANCE WITH AS 3601...

STEELWORK
a. ALL STEELWORK SHALL BE FABRICATED AND ERECTED WITH NATURAL CORROSION RESISTANCE IN ACCORDANCE WITH AS 1210...

REINFORCED STONEWORK MASONRY
a. UNREINFORCED STONEWORK MASONRY SHALL BE CONSTRUCTED IN ACCORDANCE WITH AS 2992 AND AS 2993...

UNREINFORCED STONEWORK MASONRY
a. UNREINFORCED STONEWORK MASONRY SHALL BE CONSTRUCTED IN ACCORDANCE WITH AS 2992 AND AS 2993...

51. FOOTINGS SHALL BE CONSTRUCTED AND BACKFILLED AS SHOWN AS POSSIBLE FOLLOWING EXCAVATION...
52. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...

53. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...
54. ALL WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM DETAILS...

55. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...
56. ALL WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM DETAILS...

57. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...
58. ALL WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM DETAILS...

59. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...
60. ALL WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM DETAILS...

61. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...
62. ALL WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM DETAILS...

63. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...
64. ALL WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM DETAILS...

65. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...
66. ALL WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM DETAILS...

67. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...
68. ALL WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM DETAILS...

69. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...
70. ALL WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM DETAILS...

71. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...
72. ALL WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM DETAILS...

73. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...
74. ALL WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM DETAILS...

75. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...
76. ALL WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM DETAILS...

77. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...
78. ALL WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM DETAILS...

79. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...
80. ALL WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM DETAILS...

81. UNLESS NOTED OTHERWISE, RIBBED FERRULES SHALL BE 15mm...
82. ALL WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM DETAILS...

CONSTRUCTION NOTES
DRAWING TITLE: CONSTRUCTION NOTES
PROJECT LOCATION: BLOCK 4 SECTION 41 LYNEHAM ACT
JOB NO.: 191504
DRAWING NO.: 0000
SCALE: AS SHOWN AT A3

GENERAL ARRANGEMENT LEGEND

SCALE 1:100

- INDICATES SLAB THICKNESS AND MESH OVERALL UNO
- INDICATES COLUMN OVER
- INDICATES 190mm COREFILLED BLOCK WORK OVER
- INDICATES CONCRETE PAD FOOTING - REFER TO SCHEDULE

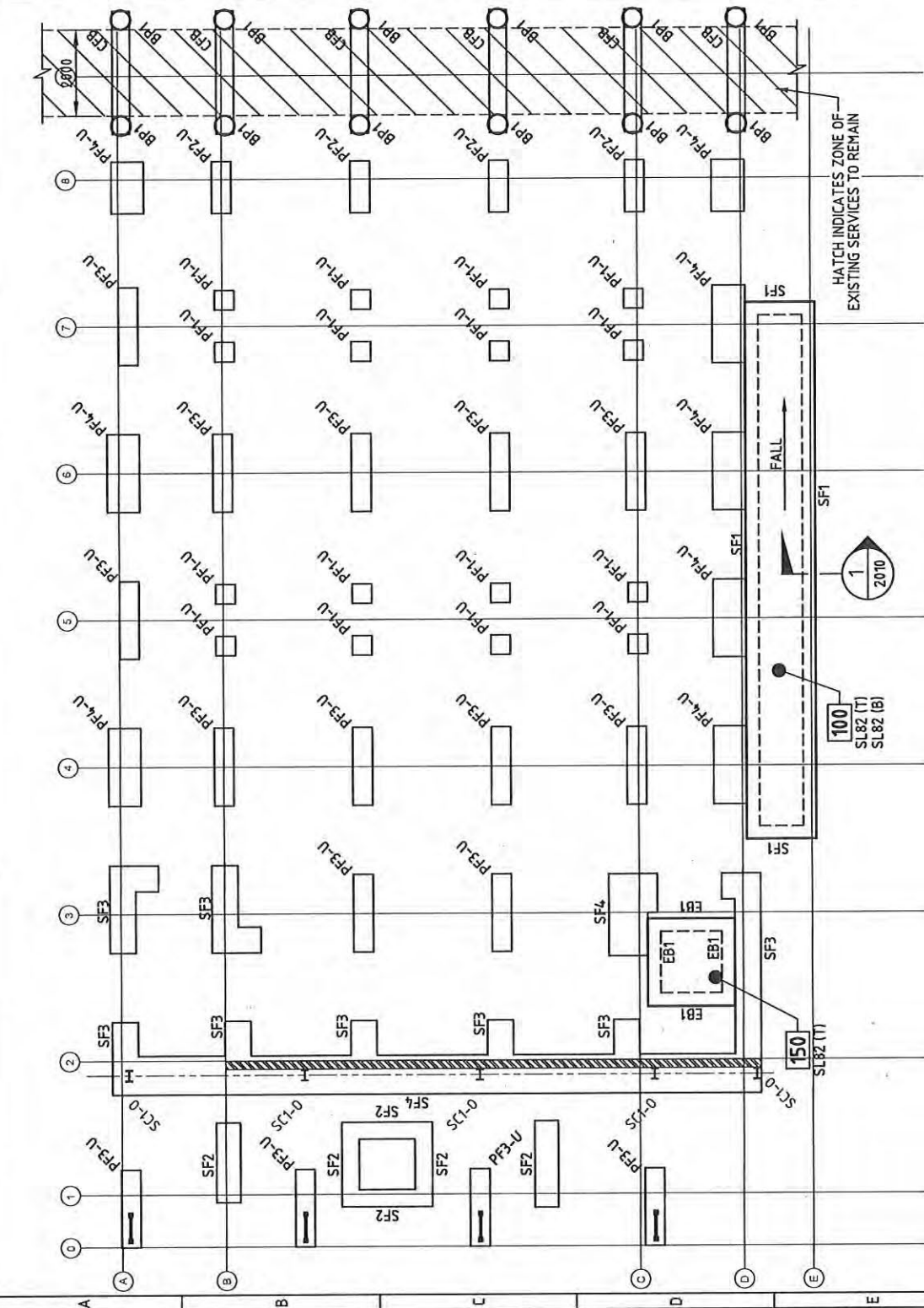
NOTES:

- REFER TO DRAWING 10/0 FOR GROUND DETAILS
- SITE PREPARATION AND CONCRETE NOTES TO BE READ AND UNDERSTOOD PRIOR TO CONSTRUCTION.
- ARTICULATE ALL BRICKWORK AND DRAINAGE TO NEC.

PAD FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT	BEARING CAPACITY
BP1	ø450mm BORED PIER	MASS CONCRETE	250 kPa
CFB	400 x 2850L mm CONCRETE FOOTING BEAM	2N12 (TOP) 3N16 (BTM) N2-30cfs	-
PF1	450 x 450mm DEEP PAD FOOTING	MASS CONCRETE	125 kPa
PF2	1200x600 x 500mm DEEP PAD FOOTING	5L12TH (TOP+8TH)	125 kPa
PF3	1800x600 x 500mm DEEP PAD FOOTING	5L12TH (TOP+8TH)	125 kPa
PF4	900x500mm DEEP PAD FOOTING	2/4L12TH (TOP+8TH)	125 kPa
SF1	300 x 500mm DEEP STRIP FOOTING	3L12TH (TOP+8TH)	125 kPa
SF2	400 x 500mm DEEP STRIP FOOTING	4L12TH (TOP+8TH)	125 kPa
SF3	600 x 500mm DEEP STRIP FOOTING	5L12TH (TOP+8TH)	125 kPa
SF4	900 x 500mm DEEP STRIP FOOTING	2/4L12TH (TOP+8TH)	125 kPa

NOTE:
 - SELICK CONSULTANTS TO BE NOTIFIED IF MINIMUM BEARING CAPACITY IF NOT ACHIEVED.
 - ALL FOUNDING MATERIAL TO BE INSPECTED BY GEOTECHNICAL ENGINEER AND BEARING CAPACITY TO BE CONFIRMED.



DESIGNED BY: CPB
 CHECKED BY: DMC
 AUTHORISED BY: DATE

PROJECT TITLE: PROPOSED DEMOUNTABLE CLIENT: Sch 22 (g)(1)

SCALE: AS SHOWN AT A3

DRAWING MARKING: PLAN

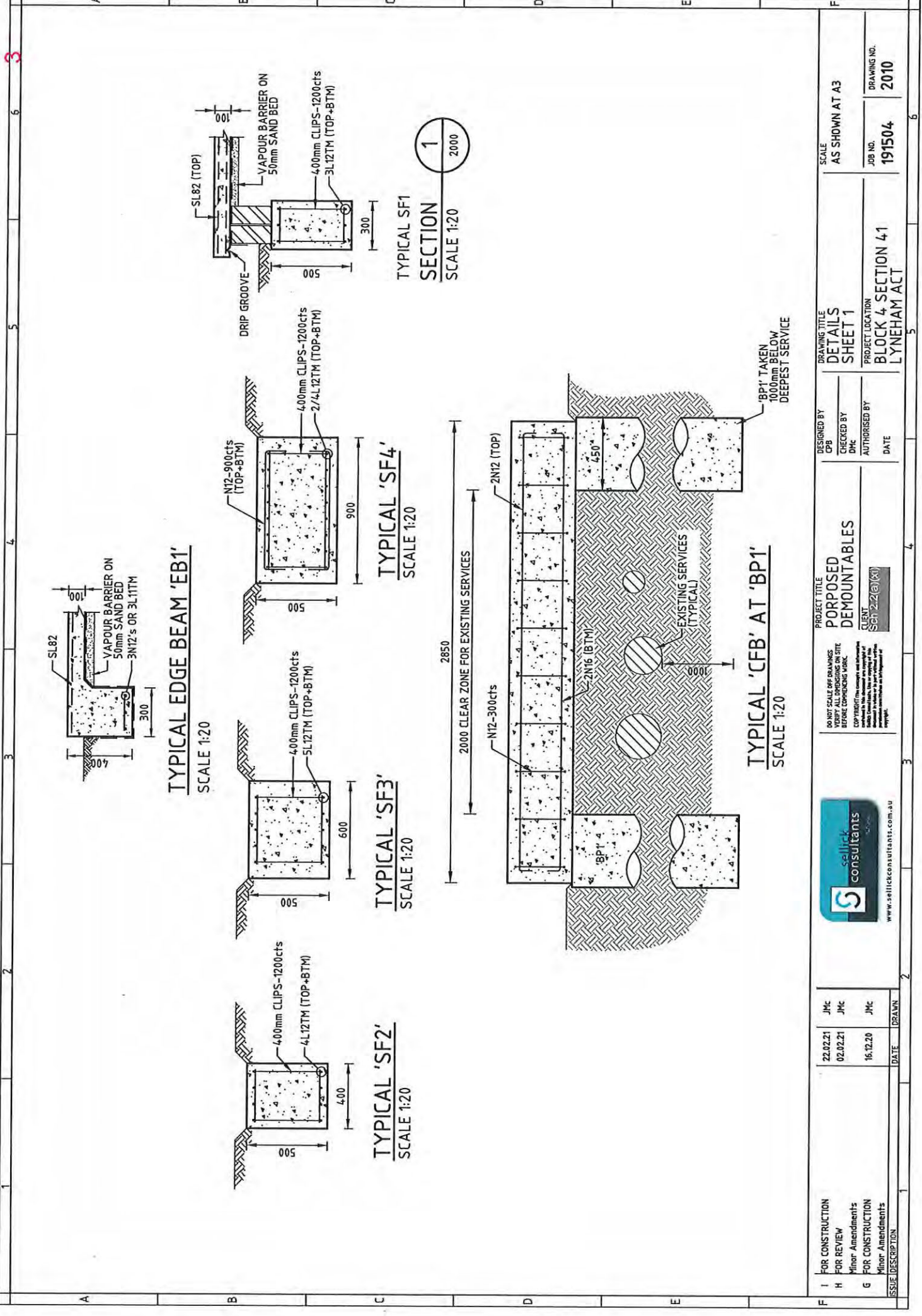
PROJECT LOCATION: BLOCK 4 SECTION 41 LYNEHAM ACT

JOB NO.: 191504
 DRAWING NO.: 2000

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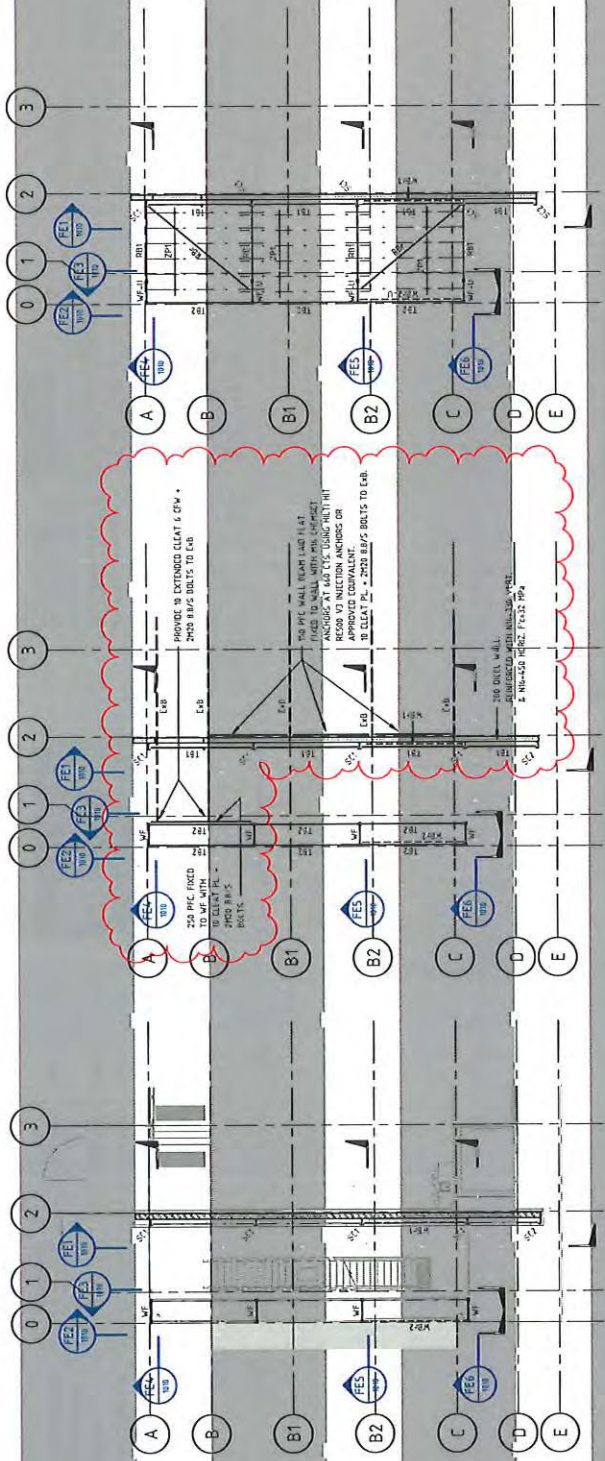
ISSUE DESCRIPTION	DATE	DRAWN
J FOR CONSTRUCTION	22.02.21	JMc
I FOR REVIEW Minor Amendments	02.02.21	JMc
H FOR CONSTRUCTION Minor Amendments	16.12.20	JMc



1	FOR CONSTRUCTION	JMC	JMC	DRAWN	DATE	ISSUE DESCRIPTION	SCALE	AS SHOWN AT A3	DRAWING NO.
	FOR REVIEW	JMC	JMC						
H	Minor Amendments	22.02.21	02.02.21				PROJECT TITLE	DRAWING TITLE	DRAWING NO.
G	FOR CONSTRUCTION		16.12.20				POPOSED DEMOUNTABLES	DETAILS SHEET 1	191504
F	Minor Amendments						CLIENT	SHEET LOCATION	2010
							SCH 22(6)(3)	BLOCK 4 SECTION 41	
							DESIGNED BY	LYNEHAM ACT	
							CHECKED BY		
							AUTHORISED BY		
							DATE		



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FOR CONSTRUCTION WORK
BEFORE CONSULTING WITH
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Selleck Group. The drawings are prepared by the
Selleck Group. The drawings are prepared by the
Selleck Group. The drawings are prepared by the
Selleck Group.



GROUND LEVEL MARKING PLAN
SCALE 1:100

LEVEL 1 FRAMING MARKING PLAN
SCALE 1:100

ROOF FRAMING MARKING PLAN
SCALE 1:100

GENERAL ARRANGEMENT LEGEND	
	INDICATES COLUMN IN SITU
	INDICATES COLUMN IN SITU UNDER
	INDICATES LOADBEARING WALL OR COLUMN UNDER
	INDICATES LOADBEARING WALL OR COLUMN UNDER BY CL
	INDICATES LOCATION & AMOUNT OF UPWARD PRE-CAMBER IN MEMBER
	INDICATES LOCATION OF SPlice, REFER TYPICAL DETAIL
	INDICATES LOCATION OF MOMENT SPlice, REFER TYPICAL DETAIL

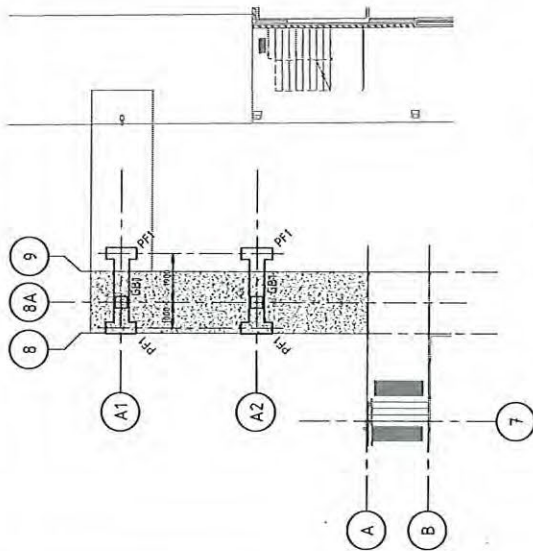
MARK	TYPE	SIZE	REMARKS
IR1	BEAM	300x350x11	
IR2	PARAMOUNT BEAM	300x350x11	
IR3	ROOF BEAM	300x350x11	
IR4	ROOF BRACING	100x100x5 SHS	
IR5	STEEL COLUMN	300x350x11	
IR6	WALL BRACING	100x100x5 SHS	
IR7	WALL BRACING	100x100x5 SHS	
IR8	WALL BRACING	100x100x5 SHS	
IR9	WALL BRACING	100x100x5 SHS	
IR10	WALL BRACING	100x100x5 SHS	
IR11	WALL BRACING	100x100x5 SHS	
IR12	WALL BRACING	100x100x5 SHS	
IR13	WALL BRACING	100x100x5 SHS	
IR14	WALL BRACING	100x100x5 SHS	
IR15	WALL BRACING	100x100x5 SHS	
IR16	WALL BRACING	100x100x5 SHS	
IR17	WALL BRACING	100x100x5 SHS	
IR18	WALL BRACING	100x100x5 SHS	
IR19	WALL BRACING	100x100x5 SHS	
IR20	WALL BRACING	100x100x5 SHS	

PURLIN & GIRTS MEMBER SCHEDULE			
MARK	TYPE	SIZE	REMARKS
GP	PURLIN	AT 1000x60x5 C/S	
GRT	GIRT	AT 1000x60x5 C/S	
ZPI	FURAN	2030R	AT 600 MAX C/C x 1 ROW OF BRACING



PERSPECTIVE 3D - BUILDING VIEW 1

 www.selleckconsultants.com.au		FOR CONSTRUCTION		Status	
Project Name and Location	BRINDABELLA CHRISTIAN COLLEGE 136 BRIGADOWN STREET, LYNEMAR ACT 2602	Drawn by	A1	Design Check	
Project Title	BUILDING LINK FRAMING MARKING PLANS	Issued by		Design Check	
Project Number	191504	Approved		Approved Date	
Scale	1:100	Approved Signature		Original Date	
DWG	STR	Issue No	00	Scale	1:100
REV		Date		Issue No	00
Issue for Construction Date: 11.11.2021 Issue for Construction Date: 13.05.2021					

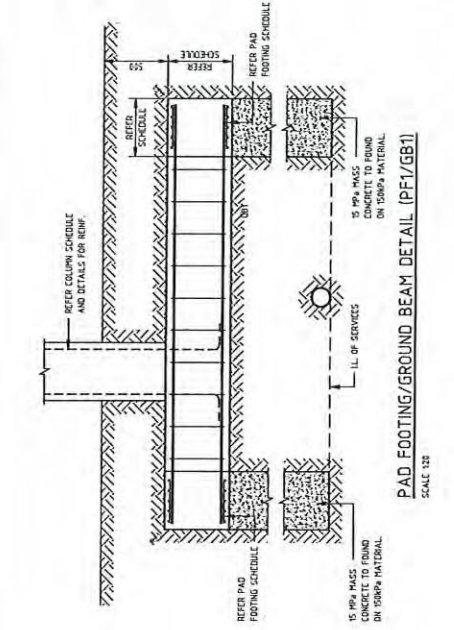


LINK BRIDGE FOOTING MARKING PLAN
SCALE 1:100

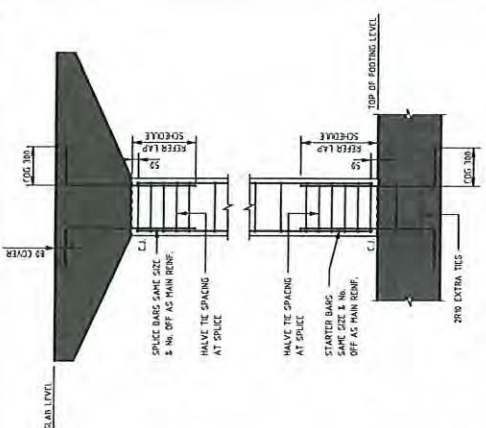
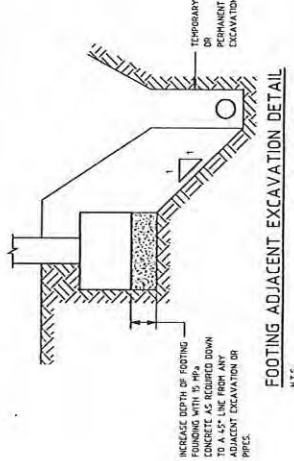
GENERAL ARRANGEMENT LEGEND	
	INDICATES COLUMN NUMBER.
	INDICATES LOADBEARING WALL OR COLUMN DIVIDER.
	INDICATES FOOTING TYPE. REFER TO SCHEDULE FOR DETAILS.
	INDICATES BASE OF PAD FOOTING TO BE LOWERED TO SUIT DEPTH OF ADJACENT FOOTING EXCAVATION.

NOTES:

- REFER TO DRAWING No. 0801 FOR CONSTRUCTION NOTES.
- SEEK CONSULTANTS TO BE ADVISED IF MINIMUM BEARING CAPACITY NOT MET.
- ALL FOOTING MATERIAL TO BE INSPECTED BY GEOTECHNICAL ENGINEER AND BEARING PRESSURE TO BE CONFIRMED.



PAD FOOTING/GROUND BEAM DETAIL (PF1/GB1)
SCALE 1:20



TYPICAL COLUMN Cc1 DETAIL
SCALE 1:20

TYPICAL COLUMN Cc1 SECTION
SCALE 1:20



PAD FOOTING SCHEDULE			
MARK	WIDTH	DEPTH	CONC. REINFORCEMENT STRENGTH
PF1	450	500	S1074 TOP & B/TX 3799s

GROUND BEAM SCHEDULE			
MARK	WIDTH	DEPTH	CONC. REINFORCEMENT STRENGTH
GB1	400	400	400x400 TOP & B/TX 3799s

RC COLUMN SCHEDULE			
MARK	TYPE	SIZE	CONC. STRENGTH
CC1	RC COLUMN	450x450	S1074 VERT. - S1074 B/TX 3799s

Rev	Description	Date	Approved
A.	ISSUE FOR CONSTRUCTION	01.11.2021	DWC

AS INDICATED @ A1

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BRINDABELLA CHRISTIAN COLLEGE
Architect
Sch 2.2(a)(xi)

FOR CONSTRUCTION	
Original Size	A1
Drawn By	Starting Link
Designed By	Design Link
Approved	Approved
Approved Date	Approved Date
Approved Signature	Approved Signature

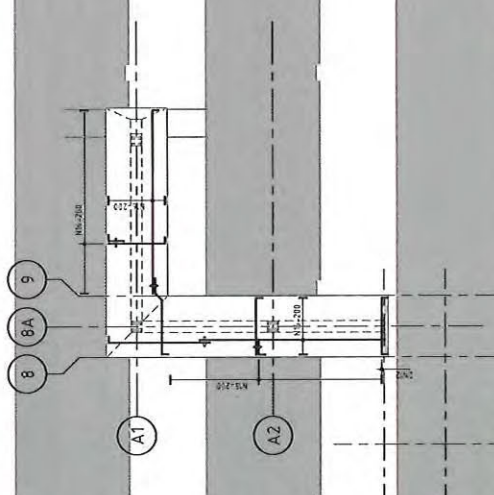
Project Name and Location	
BRINDABELLA CHRISTIAN COLLEGE	136 BRIGALOW STREET, LYNEHAM ACT 2602

LINK BRIDGE FOOTING MARKING PLAN & DETAILS	
Project Number	191504
Type	STR
Scale	1:100
Drawn	STR
Check	STR
Discipline	1100
Date	11/01/21

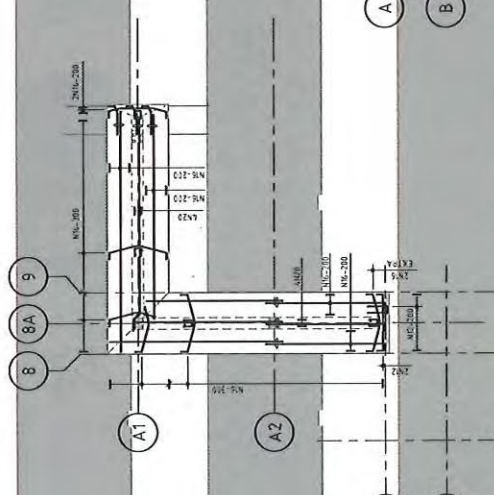
GENERAL ARRANGEMENT LEGEND	
	INDICATES COLUMN NUMBER
	INDICATES COLUMN REINFORCEMENT
	INDICATES LOADBEARING WALL OR COLUMN OVER
	INDICATES STEP IN SLAB
	INDICATES EDGE PENETRATION LOCATION IN SLAB
	INDICATES PRESTRESSING CAST-IN-PLACE CONCRETE
	INDICATES METAL REINFORCEMENT WHEN ON OPPOSITE SIDE OF THE CONVENTIONALLY FORMED SLAB. STEEL REINFORCEMENT CAN REMAIN STRAIGHT AND ACHIEVE THE CORRECT LOW POINT DRAPE.
	INDICATES REINFORCEMENT IN CONCRETE. REFER TO DRAWING NO. 1001 FOR DETAILS.

RC COLUMN SCHEDULE			
MARK	TYPE	SIZE	CONC. STRENGTH
011	RC COLUMN	100x100	M20

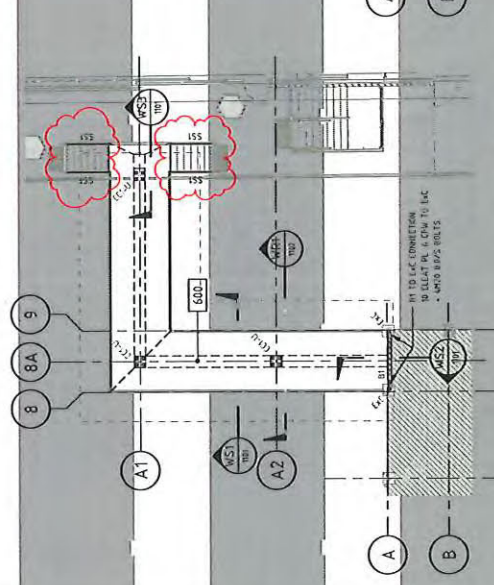
STEEL MEMBER SCHEDULE			
MARK	TYPE	SIZE	REMARKS
011	RC COLUMN	100x100	M20



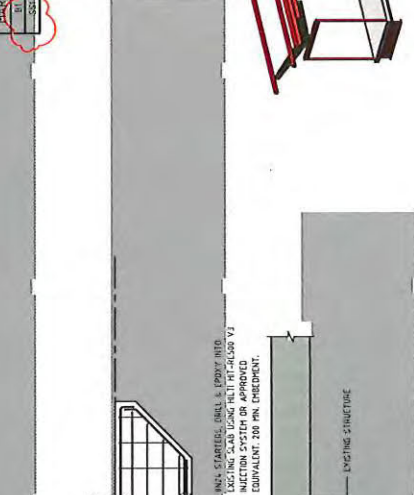
LINK BRIDGE WALKWAY BOTTOM REINFORCEMENT PLAN
SCALE 1:20



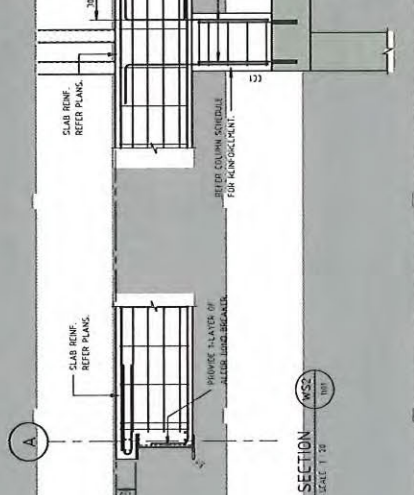
LINK BRIDGE WALKWAY TOP REINFORCEMENT PLAN
SCALE 1:20



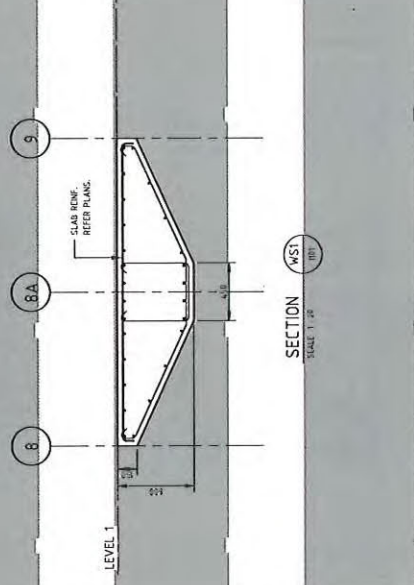
LINK BRIDGE WALKWAY MARKING PLAN
SCALE 1:20



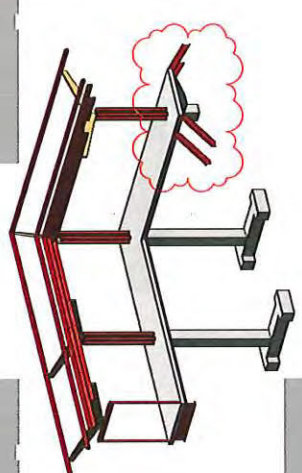
SECTION WS1
SCALE 1:20



SECTION WS2
SCALE 1:20



SECTION WS3
SCALE 1:20



PERSPECTIVE 3D - LINK BRIDGE

FOR CONSTRUCTION		FOR CONSTRUCTION	
Original	Drawn By	Original	Drawn By
WS1	A1	WS1	A1
Date	Designed By	Date	Designed By
10/11/2021	DM	10/11/2021	DM
Approved	Approved	Approved	Approved
DM	DM	DM	DM
Date	Date	Date	Date
Description		Description	
ISSUE FOR CONSTRUCTION		ISSUE FOR CONSTRUCTION	
ISSUE FOR CONSTRUCTION		ISSUE FOR CONSTRUCTION	
Rev		Rev	
00		00	
1001		1001	

BRINDABELLA CHRISTIAN COLLEGE
136 BRIGALOW STREET, LYNEHAM ACT 2802
LINK BRIDGE WALKWAY MARKING
PLANS & DETAILS
191504 DWG STR 00 1101 B

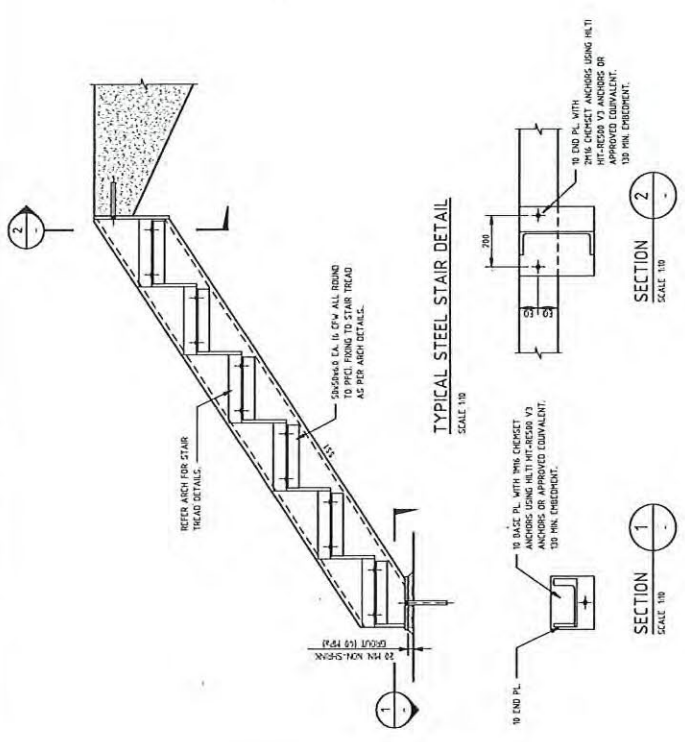
BRINDABELLA CHRISTIAN COLLEGE
ARCHITECT
Sch 2.2(a)(xi)

FOR CONSTRUCTION
A1
WS1
SCALE 1:20

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AS indicated @ A1

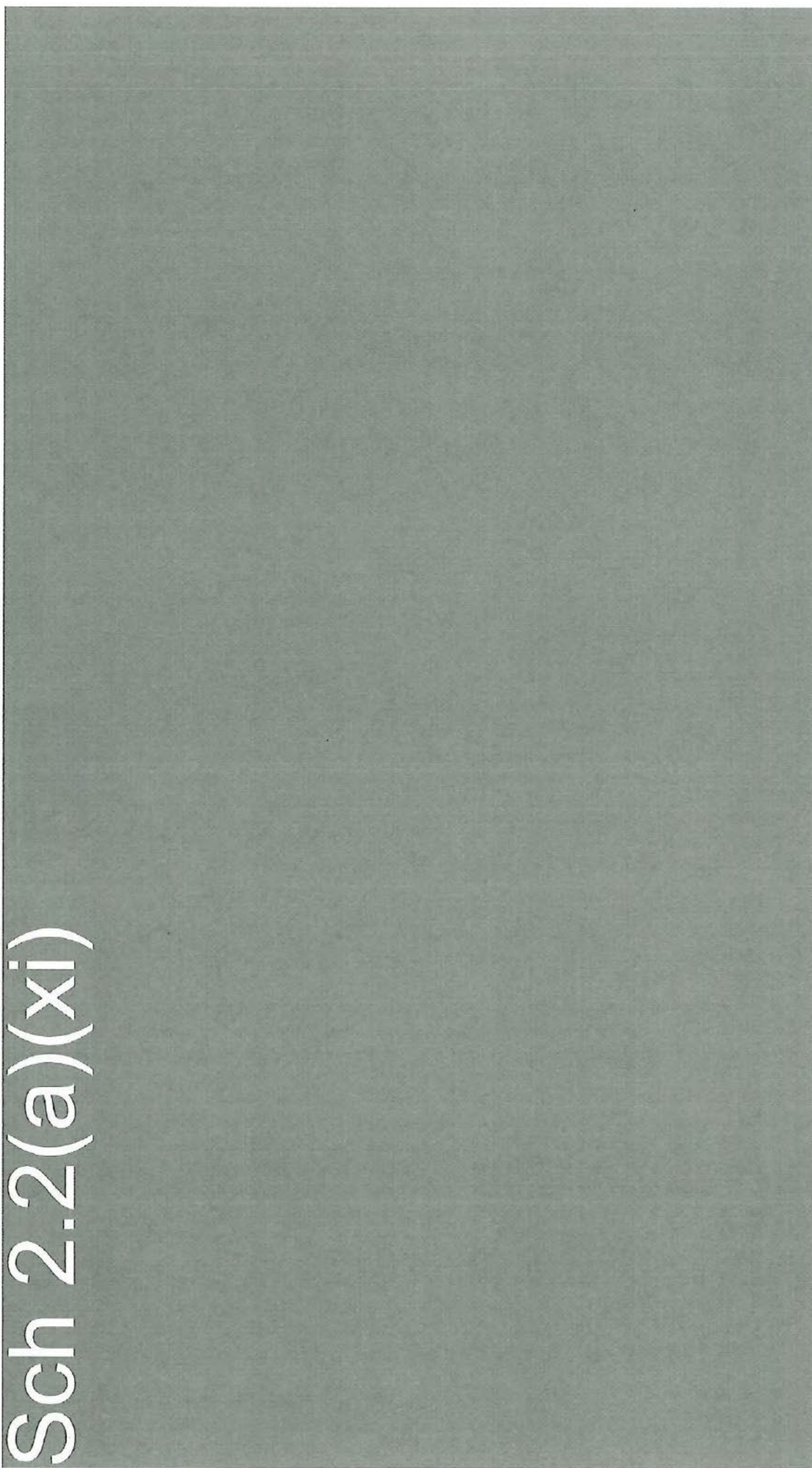
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TYPICAL STEEL STAIR DETAIL
SCALE 1/8

Project Name and Location BRINDABELLA CHRISTIAN COLLEGE 136 BRIGALDW STREET, LYNHAM ACT 2602		Drawing Title LINK BRIDGE WALKWAY STAIR DETAILS	
Project Number 191504		Type DWG	
Location STR		Drawing No. 1103 A	
FOR CONSTRUCTION			
Original Size A1	Drawn By [Blank]	Drafting Check [Blank]	Date [Blank]
Performed [Blank]	Designed By [Blank]	Design Check [Blank]	Approved Date [Blank]
Coordinate [Blank]	Approved [Blank]	Approved Date [Blank]	Approved Date [Blank]
Height [Blank]	Approved Signature [Blank]	Approved Date [Blank]	Approved Date [Blank]
Datum [Blank]	Approved Signature [Blank]	Approved Date [Blank]	Approved Date [Blank]
Client BRINDABELLA CHRISTIAN COLLEGE Architect		Scale 1 : 10 @ A1	
sellick consultants www.sellickconsultants.com.au		Date 11/02/23	
Sch 2.2(a)(xi)		Description ISSUE FOR CONSTRUCTION	
Approved [Signature]		Date 11/02/23	
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Sch 2.2(a)(xi)



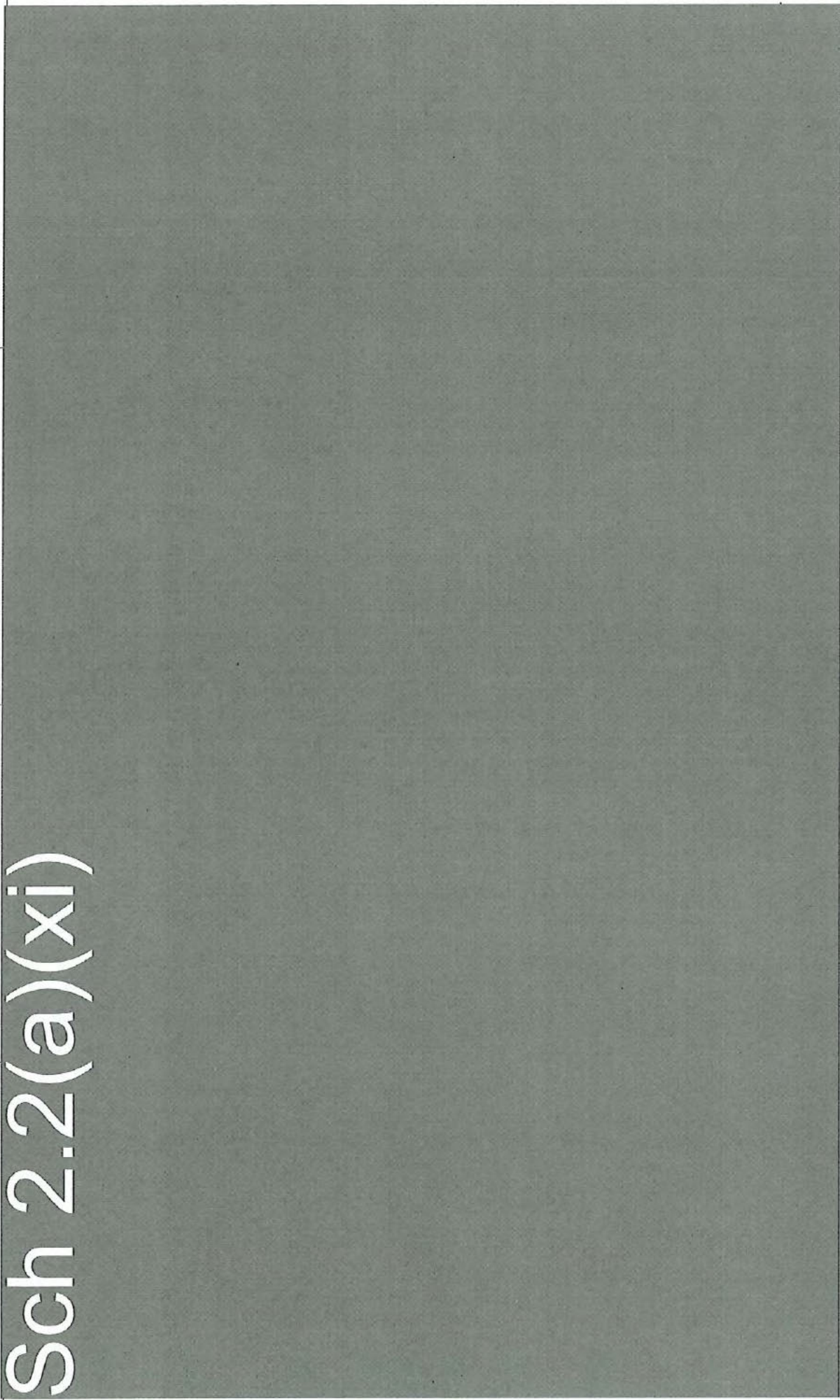
NO	DATE	DESCRIPTION
A	MAR 21	PERMITS

PROJECT NAME ANDRELLA CHRISTIAN COLLEGE		PROJECT NO. ENCOUNTERABLE 02	
PROJECT ADDRESS 108 BRIGalow STREET, LANEHAM ACT 2906		BLOCK 4	
PROJECT TYPE BUILDING APPROVAL		SECTION 41	
SCALE AS INDICATED		DRAWN L'NEHAM	
SHEET NO. 1506.16		APPROVAL NO. A140	
SCALE: 1:50 @ ORIGINAL SCALE		DRAWN BY A	

PROJECT NAME REFLECTED CEILING PLAN - GROUND FLOOR		PROJECT NO. 1506.16	
PROJECT ADDRESS 108 BRIGalow STREET, LANEHAM ACT 2906		BLOCK 4	
PROJECT TYPE BUILDING APPROVAL		SECTION 41	
SCALE AS INDICATED		DRAWN L'NEHAM	
SHEET NO. 1506.16		APPROVAL NO. A140	

All dimensions in this plan are in millimetres. All dimensions shall be rounded to the nearest millimetre. All dimensions shall be checked in accordance with the Australian Standards AS/NZS 4600 and AS/NZS 4601. All dimensions shall be checked in accordance with the Australian Standards AS/NZS 4600 and AS/NZS 4601. All dimensions shall be checked in accordance with the Australian Standards AS/NZS 4600 and AS/NZS 4601.

Sch 2.2(a)(xi)



SCALE: 1/8" = ORIGINAL SCALE

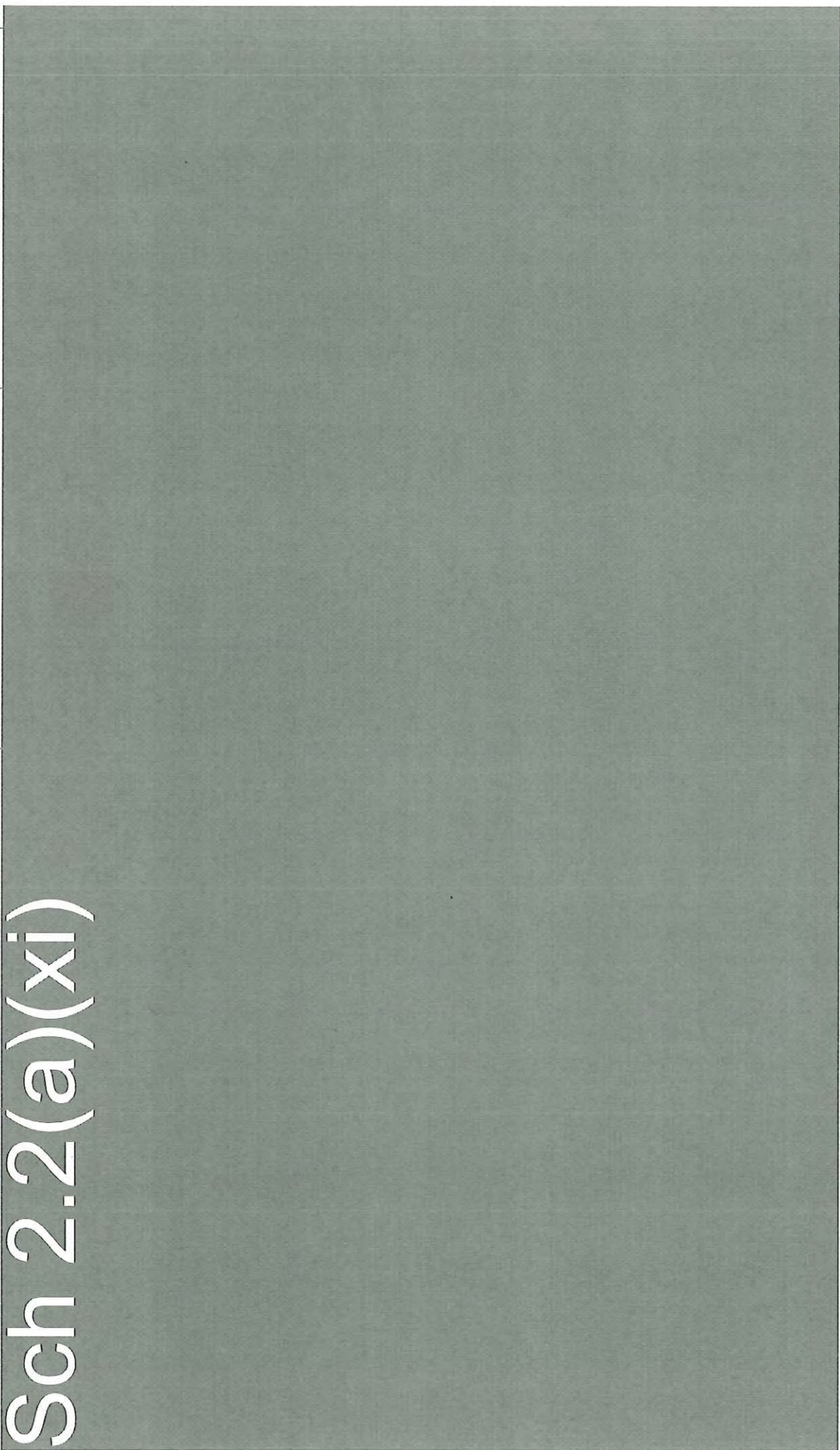
REV	DATE	DESCRIPTION
A	04/2/21	PPV CONTRACTION

Sch 2.2(a)(xi)

Client BRINDABELLA CHRISTIAN COLLEGE	Project Name BUILDING APPROVAL
Project Title DEBENTURABLE V2	Project Address 108 BRICKLAW STREET, LYNEHAM ACT 2602
All documents in this set, to be read in conjunction with the relevant Building Act 2002 and the relevant Building Regulations, and any other documents which may be referred to in this contract, shall constitute the entire agreement between the parties. No oral agreement or understanding shall be binding on the parties.	Block 4
	Section 41
	Phase LYNEHAM
State ACT	Sheet Size A1
Project No. 1506.16	Drawn By A141
Design Project Manager SV	Checked By A
Design Year SV	Approved A

REFLECTED CEILING PLAN - LEVEL 1

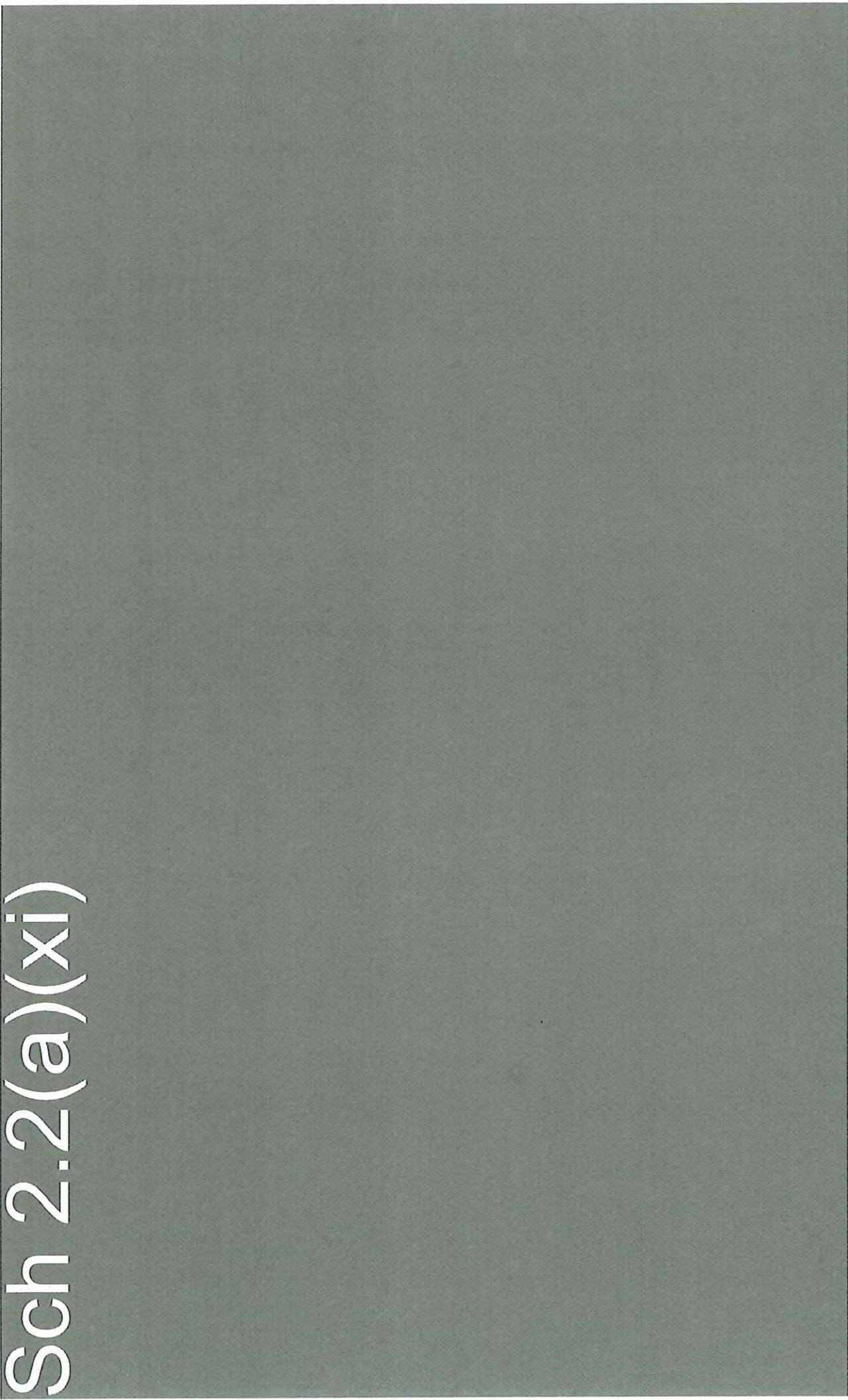
Sch 2.2(a)(xi)



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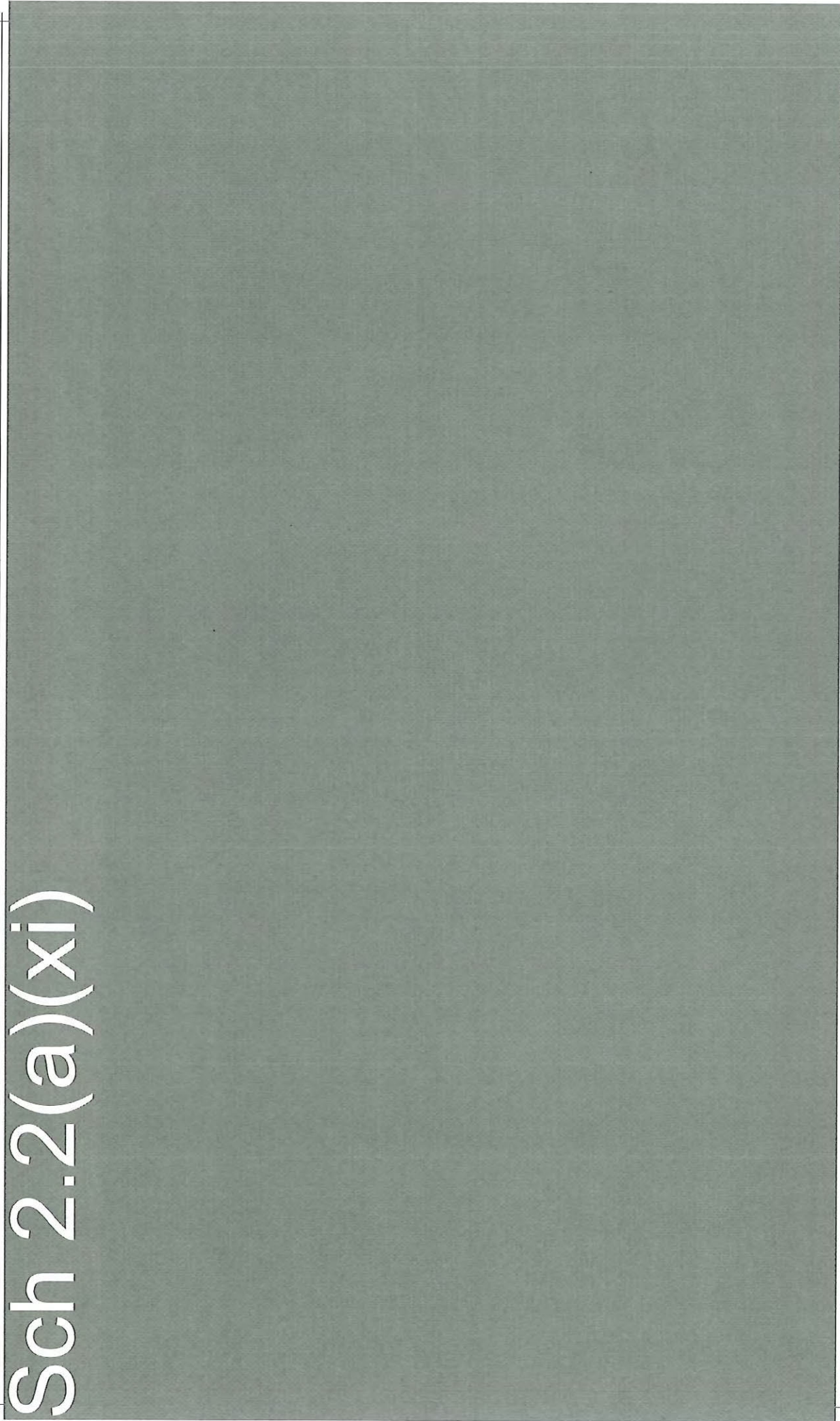
REV A	DATE 04/21	DESCRIPTION Building Approval
<p>Client: BRINDABELLA CHRISTIAN COLLEGE</p> <p>Project Title: DECONTAINABLE V2</p> <p>Project Name: For Building Approval</p> <p>Project Address: 136 BRIGALOW STREET, LYNEHAM ACT 2022</p> <p>Block: 4 Section: 41 Division: LYNEHAM</p> <p>Design Title: Electrical - Data and Comms Layout - Level 1</p> <p>Design Manager: SV Project Architect: SV Design Version: SV</p> <p>Scale: As indicated Sheet Size: A1 Drawn: Drew</p> <p>Project No: 41 Draw No: 41 Approved: Approved</p> <p><small>All dimensions in millimeters. Do not scale drawings. All dimensions are to be taken from the drawings. Dimensions shown on drawings are for information only. Work for preparation of these drawings. When provided, drawings must be read in conjunction with schedule of work or specifications.</small></p>		

Sch 2.2(a)(xi)



REV	DATE	DESCRIPTION	Client	Project Name	Project Status	Drawings Title	Design Year
A	8/2/21	Building Approval	BRINDABELLA CHRISTIAN COLLEGE	For Building Approval	Ground Floor	Brindabella Christian College Ground Floor	SV
			Project Title DEVCOUNTABLE V2	Project Address 138 BRIGGLOW STREET, LYNEHAM ACT 2022	Project Manager NJ	Scale A1	Design SV
			All dimensions in millimetres. Do not scale drawings. All dimensions and levels to be verified on site by contractor before commencing work. All dimensions and levels to be verified on site by contractor before commencing work. All dimensions and levels to be verified on site by contractor before commencing work. All dimensions and levels to be verified on site by contractor before commencing work.	Block 4	Section 41	Sheet No. A1	Design SV
						Sheet No. A1	Design SV

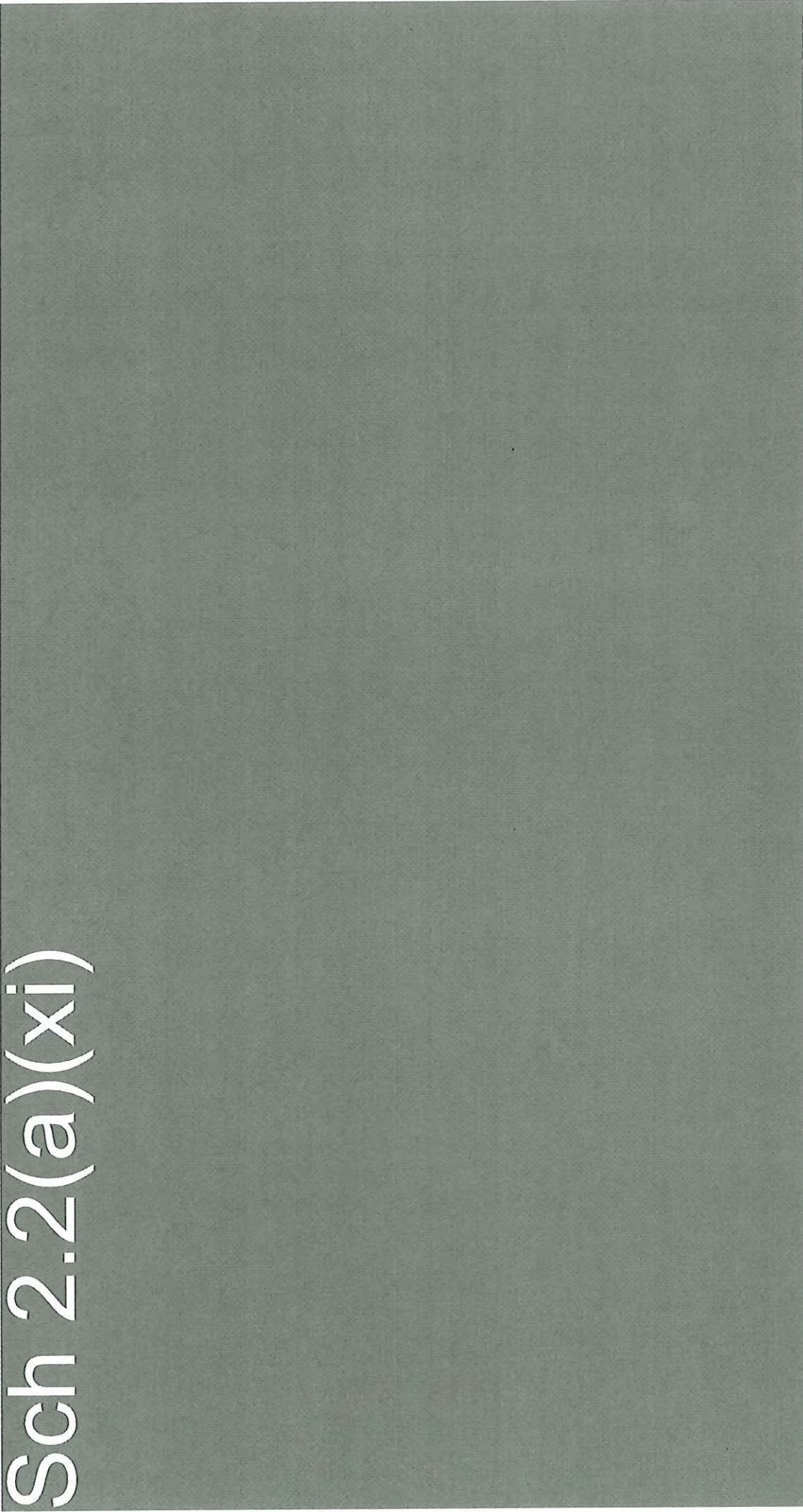
Sch 2.2(a)(xi)




REV A	DATE 04/23/11	DESCRIPTION Building Approval	<p>EX-SB Slim Slide slide connect exit</p> <p>REL20 recessed emergency light d32 classification</p>	<p>Client: BRINDABELLA CHRISTIAN COLLEGE</p> <p>Project Name: DEMOUNTABLE VC</p> <p>Project Address: 100 BRIDGALOW STREET, LYNEHAM ACT 2602</p> <p>Block: 4</p> <p>Section: 41</p> <p>Division: LYNEHAM</p> <p>Design Project Manager: AS INDICATED</p> <p>Project Architect: A1</p> <p>Sheet Size: A1</p> <p>Sheet No.: A1</p> <p>Project No.:</p> <p>Design Year: 2011</p> <p>Approved:</p>	<p>Design Title: Emergency and Exit Lighting Ground Floor</p> <p>Design Project Manager: AS INDICATED</p> <p>Project Architect: A1</p> <p>Sheet Size: A1</p> <p>Sheet No.:</p> <p>Project No.:</p> <p>Design Year: 2011</p> <p>Approved:</p>
----------	------------------	----------------------------------	-----------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------


All dimensions in millimeters. Do not scale drawings. All dimensions and notes to be used in conjunction with construction drawings. All dimensions must be read in conjunction with suitable sheets or part thereof.

Sch 2.2(a)(xi)





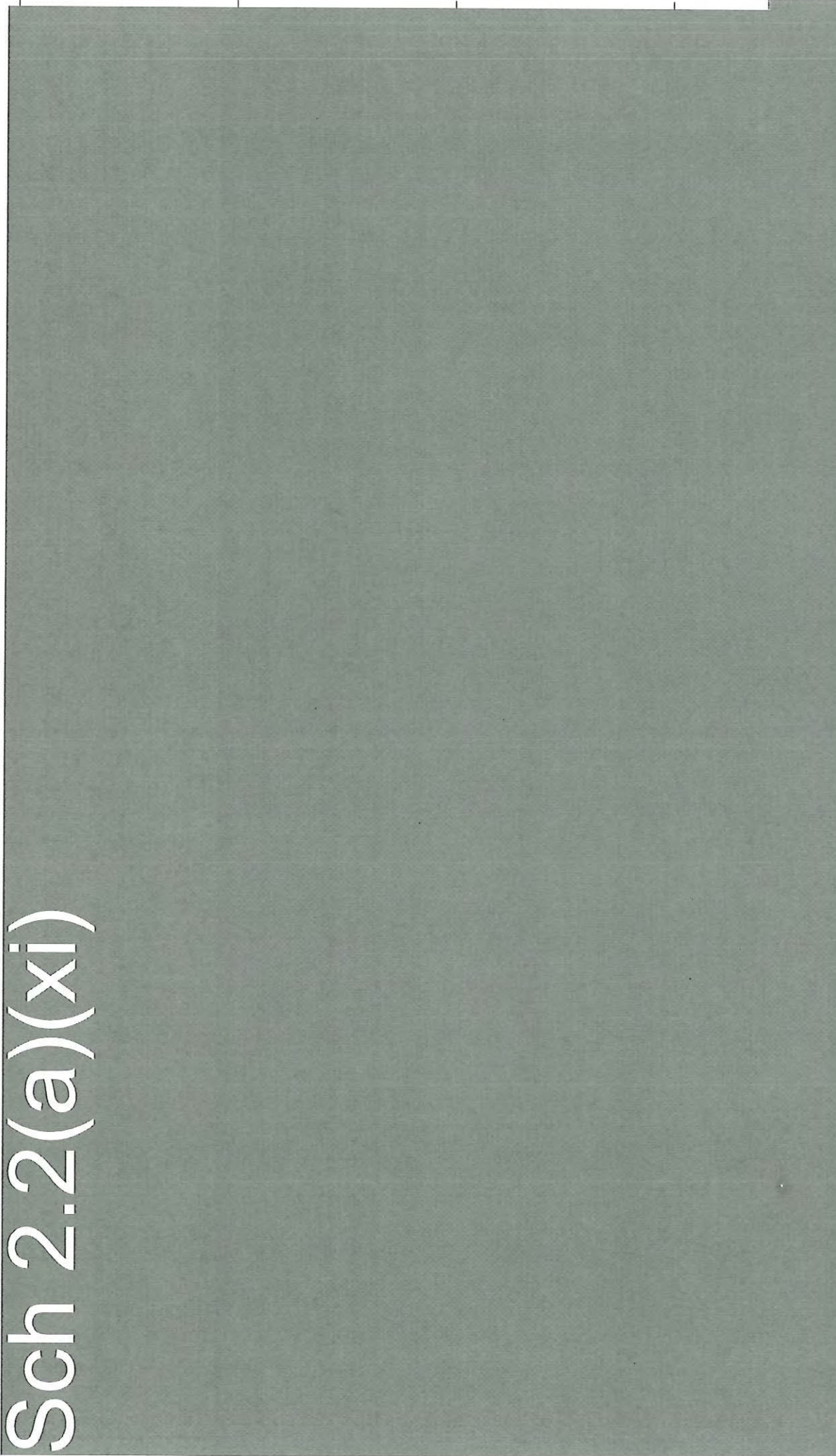
NORTH



SCALE: 1/8" = ORIGINAL SCALE

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REV	DATE	DESCRIPTION							
A	04/23/21	Building Approval							

Sch 2.2(a)(xi)



REV 2	DATE 2/23/23	DESCRIPTION Building Manual			
Client: BRUNABELLA CHRISTIAN COLLEGE Project Title: DISCOUNTABLE V2 <small>All dimensions in millimeters. Do not scale drawings. All dimensions and levels to be verified on site by contractor before commencing work. All dimensions are approximate. All dimensions must be marked on construction with appropriate dimensions.</small>			Project Status: For Building Approval Project Address: 136 BRIGALOW STREET, LYNEHAM ACT 2022 Block: 4 Section: 41 Division: L'NEWMAN		
Drawing Title: Electrical - Lighting Layout - Ground Floor Design Project Manager: SV Scale: As Indicated Project No: SV			Design Year: SV Sheet Size: A1 Sheet No: SV Drawn: SV Assessed: SV © Copyright		

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Sch 2.2(a)(xi)



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SCALE: 1:50 @ ORIGINAL SCALE

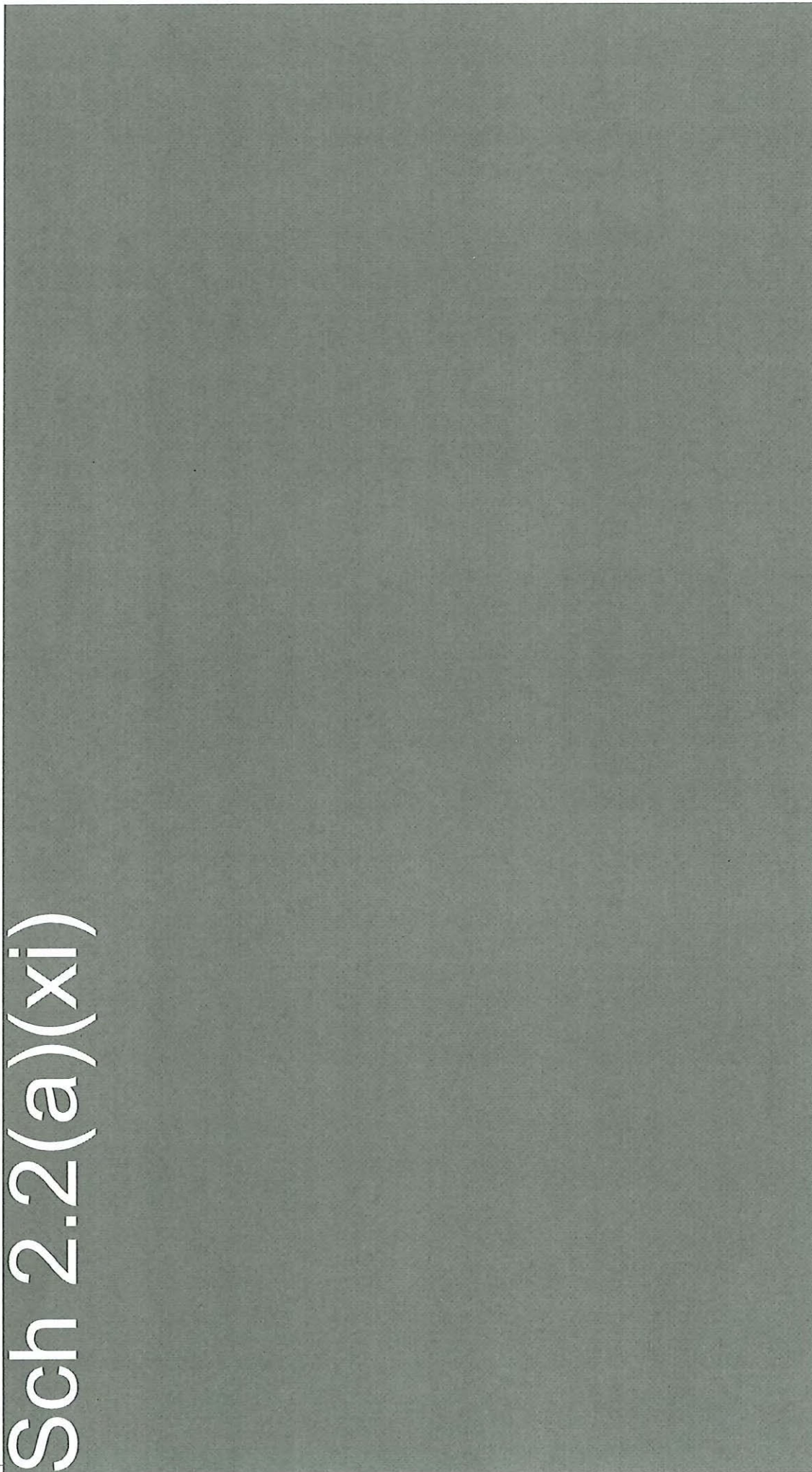
REV	DATE	DESCRIPTION
2	07.29.20	Building Approval

Client: BRINDABELLA CHRISTIAN COLLEGE	Project Name: For Building Approval
Project Title: DEMOUNTABLE V2	Project Address: 108 BRICALOW STREET, LYNEHAM ACT 2602
<small>All dimensions in millimetres. Do not scale drawings. All dimensions work or preparation of shop drawings. Where provided, drawings must be read in conjunction with standards of work or specification.</small>	
Drawn: SV	Checked: 41
Scale: AS NOTED	Division: LYNEHAM
Project No: A1	Sheet No: 41
Project Manager: NI	Design/Author: SV
Drawn: SV	Approved: SV

Sheet Title: Electrical - Lighting Layout - Level 1

Sch 2.2(a)(xi)

Sch 2.2(a)(xi)



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REV	DATE	DESCRIPTION
A	04/27/21	Building Approval

Client:
BRIDABELLA CHRISTIAN COLLEGE

Project Title:
DEMOUNTABLE V2

All dimensions in millimeters. Do not scale drawings. All dimensions and levels to be verified on site by contractor before commencing work. All dimensions and levels must be read in conjunction with schedule of work or specifications.

Project Status:
For Building Approval

Project Address:
103 BRISBLOW STREET, LYNEHAM ACT 2602

Block: 4
Section: 41

Owner:
LYNEHAM

Drawing Title:
Electrical - Power Layout - Level 1

Design Project Manager:
N

Project Architect:
N

Design Verifier:
SV

Author:
AT

Project No. / Sheet No.:
/

Drawn:
Assessment

5/1/2021 11:52:11 AM
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Sch 2.2(a)(ii)

ISSUE	AMENDMENT	BY	DATE
A	DESIGN PRELIMINARY		18.11.19
B	REVISED DRAINING & LIFT		27.11.19
C	ADDED ELECTRICAL PLAN & REVISED DESIGN		10.01.20
D	ADDED PARAPET WALLS		02.04.20
E	REVISED DP		12.05.20
F	REVISED DP		28.05.20
G	REVISED AMENITIES & OFFICE		28.05.20
H	ADDED RAMP, LANDING & STAIRS BY CLIENT		29.07.20
I	ADDED W/UPSTAIRS & DELETED HANDRAILS		30.07.20
J	ADDED NOTES		30.07.20
K	REVISED GFL TO S71.250 & FLOORING THICK		04.08.20
L	REDUCED THE ROOFS RL TO SUIT MAX 4100		04.08.20
M	REVISED ELECTRIC PLAN		10.09.20
N	ADDED AMENITY DETAILS		24.09.20
P	UPDATED R/L		08.10.20
Q	UPDATED DOOR/WINDOW LOCATIONS/UPDAT TYPICAL DETAILS		13.10.20
R	AMENDED DETAILS/DOOR SCHEDULE		16.10.20
S	AMENDED DETAILS		26.10.20
T	AS CLOUDED		09.11.20

ISSUE	AMENDMENT	BY	DATE
T	AS CLOUDED	KM	09.11.20
S	AMENDED DETAILS	KM	26.10.20
R	AMENDED DETAILS/DOOR SCHEDULE	KM	19.10.20
Q	UPDATED DOOR/WINDOW LOCATIONS/UPDATED TYPICAL DETAILS	KM	13.10.20
P	UPDATED R/L	KM	08.10.20
N	ADDED AMENITY DETAILS	KM	24.09.20
M	REVISED ELECTRIC PLAN	TT	10.09.20
L	REDUCED THE ROOFS RL TO SUIT MAX 4100	TT	04.08.20

PRELIMINARY DRAWING

TITLE: [REDACTED] COVER PAGE

DATE: 24.09.20

DRAWN BY: TT

CHECKED BY: DT

SCALE:

DRAWING NUMBER: MS-200877-000

QUOTATION NUMBER: 200877

REVISION: 1

BUILDING NUMBER: [REDACTED]

SHEET: A3

PROJECT: Sch 2.2(a)(xi) Brindabella College

CLIENT APPROVAL: [REDACTED]

SIGNATURE: [REDACTED]

NAME: [REDACTED]

DATE: [REDACTED]

AWARNING: I warrant that the information provided in this document is true and correct to the best of my knowledge and belief. I warrant that the information provided in this document is true and correct to the best of my knowledge and belief. I warrant that the information provided in this document is true and correct to the best of my knowledge and belief.

Sch 2.2(a)(xi)



Sch 2.2(a)(ii)

Sch 2.2(a)(xi)

CLIENT APPROVAL
 SIGNATURE
 NAME
 DATE

PROJECT
 Sch 2.2(a)(xi)
 Brindabella College

DATE 24.09.20
 DRAWN BY TT
 CHECKED BY DT
 SCALE:
 DRAWING NUMBER MS-200677-001
 BUILDING NUMBER
 QUOTATION NUMBER 200677-REV T
 SHEET A3

PRELIMINARY DRAWING

ISSUE	AMENDMENT	BY	DATE
T	AS ISSUED	KM	08.11.2020
S	DETAILS	KM	20.12.2020
R	AMENDED BALCONY SCHEDULE	KM	10.12.2020
Q	UPDATED DOCUMENTATION LOCATIONS/UPDATED TYPICAL DETAILS	KM	13.12.2020
P	UPDATED R/L	KM	08.12.2020
N	ADDED/AMENDED DETAILS	KM	24.09.2020
J	ADDED NOTES	TT	30.07.2020
F	REVISED P/L	TT	28.05.20

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WINDOW SCHEDULE

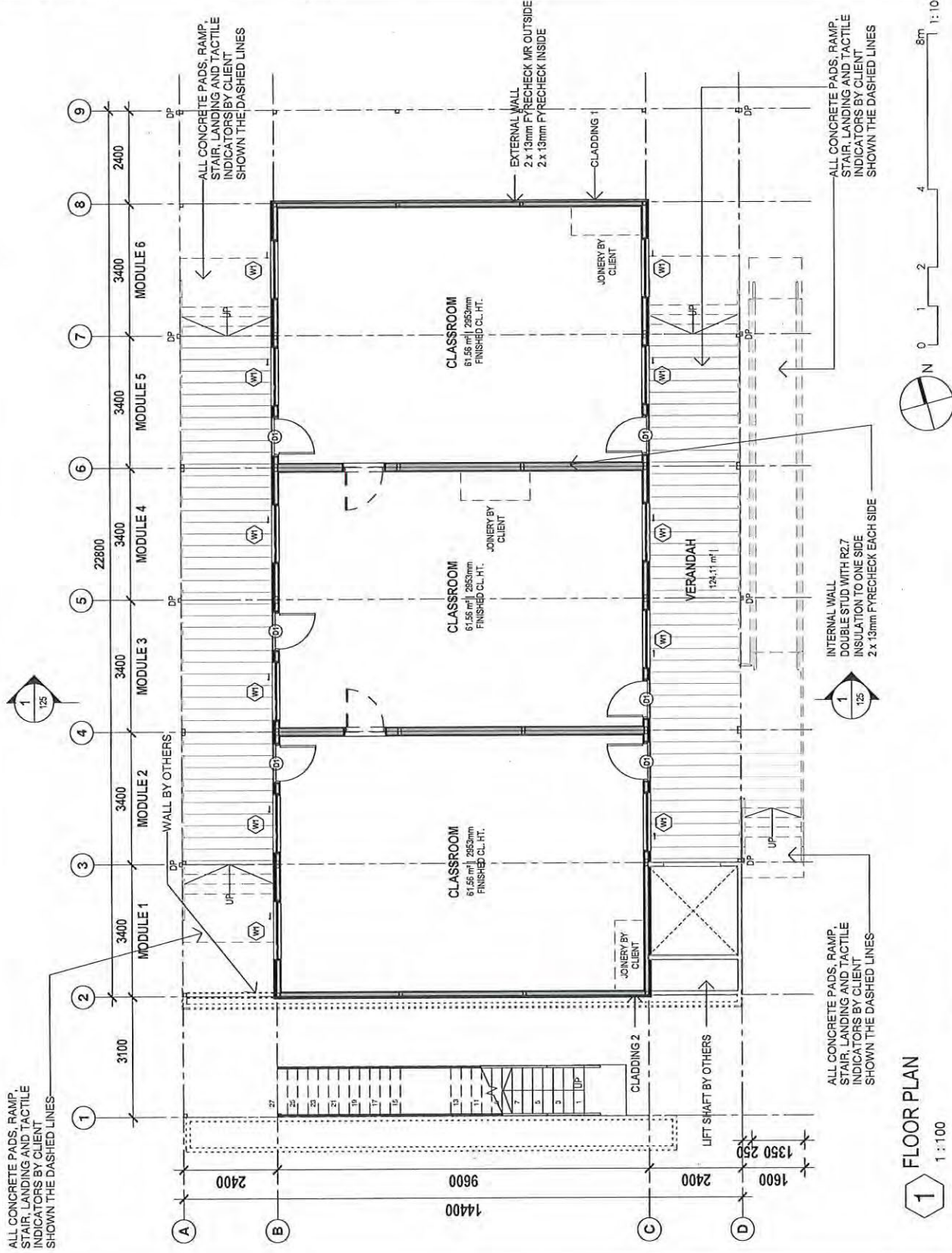
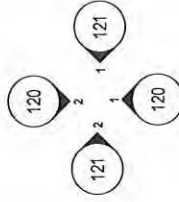
ITEM	DESCRIPTION	SILL HEIGHT	QTY
W1	Sliding Window: 120DH x 1486W	900	22
W2	Sliding Window: 600H x 1496W	2800	5

DOOR SCHEDULE

ITEM	DESCRIPTION	HEIGHT	QTY
D1	External Half Glass Door: 920W x 2040H	2088	12

LEGEND - KEYNOTE

DP DOWNPIPE



1 FLOOR PLAN
1 : 100

8m
1 : 100

N
1 : 100

ISSUE	AMENDMENT	BY	DATE
T	AS CLOUED	RM	09.11.2020
S	AMENDED DETAILS	RM	26.10.2020
R	AMENDED DETAILS/DOOR SCHEDULE	RM	19.10.2020
Q	UPDATED DOOR WINDOW LOCATIONS/UPDATED	RM	13.10.2020
P	UPDATED DETAILS	RM	08.10.2020
N	ADDED/AMENDED DETAILS	RM	24.09.2020
M	ADDED NOTES	IT	30.07.2020
J	ADDED RAMP, LANDINGS & STAIRS BY CLIENT	IT	22.07.2020

PRELIMINARY DRAWING

1 GROUND FLOOR - GENERAL ARRANGEMENTS

DATE: 24.09.20
DRAWN BY: TT
CHECKED BY: DT
SCALE: 1 : 100

TITLE: GROUND FLOOR - GENERAL ARRANGEMENTS
BUILDING NUMBER: MS-200677-101
QUOTATION NUMBER: 200677 REV T SHEET A3

PROJECT: Brindabella College

Sch 2.2(a)(ii)

CLIENT APPROVAL: SIGNATURE: _____ DATE: _____

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Sch 2.2(a)(ii)

LEGEND 21

WINDOW SCHEDULE

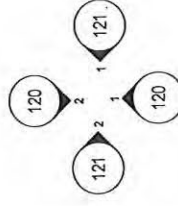
ITEM	DESCRIPTION	SILL HEIGHT	QTY
W1	Sliding Window: 1200H x 1495W	900	22
W2	Sliding Window: 600H x 1495W	2800	5

DOOR SCHEDULE

ITEM	DESCRIPTION	HEIGHT	QTY
D1	External Hall Glass Door: 920W x 2040H	2088	12

LEGEND - KEYNOTE

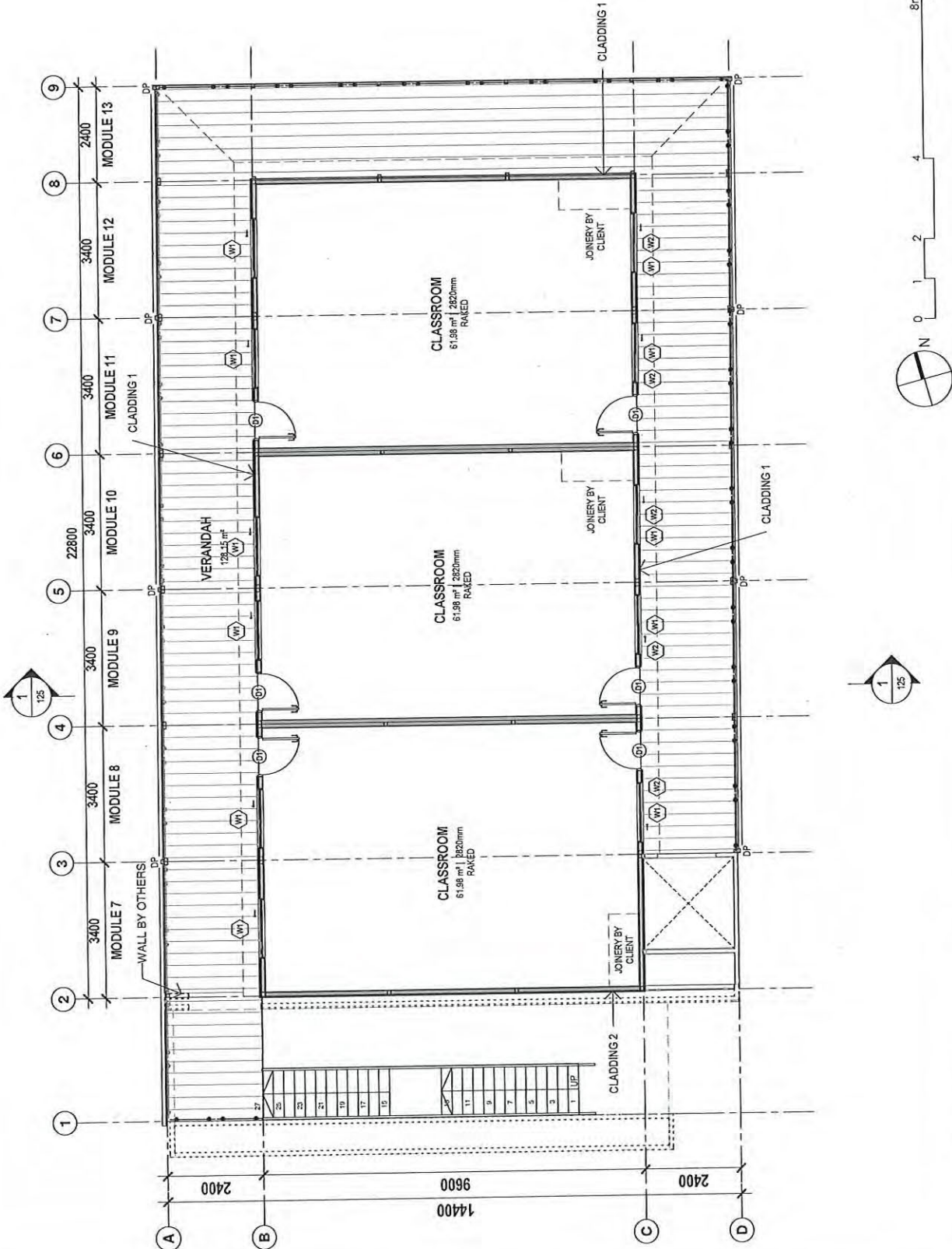
DP DOWNPIPE



Sch 2.2(a)(ii)

PRELIMINARY DRAWING

ISSUE	AMENDMENT	BY	DATE
T	AS CLUSED	KM	09.11.2020
S	AMENDED DETAILS	KM	26.10.2020
R	AMENDED DETAILS DOOR SCHEDULE	KM	19.10.2020
Q	UPDATED DOOR WINDOW LOCATIONS/UPDATED	KM	13.10.2020
P	TYPICAL DETAILS	KM	06.10.2020
N	UPDATED R/L	KM	24.09.2020
M	ADDED/AMENDED DETAILS	KM	24.09.2020
J	ADDED NOTES	TT	30.07.2020
I	ADDED WIP/PARTIALS & DELETED HANDRAILS	TT	29.07.2020



TITLE	DATE	SCALE	REV	T	SHEET	A3
LEVEL 1 - GENERAL ARRANGEMENTS	24.09.20	1:100	200677	102		
DRAWING NUMBER	MS-200677-	QUOTATION NUMBER	200677			
BUILDING NUMBER						

PROJECT: **Sch 2.2(a)(xi)**
 Brindabella College

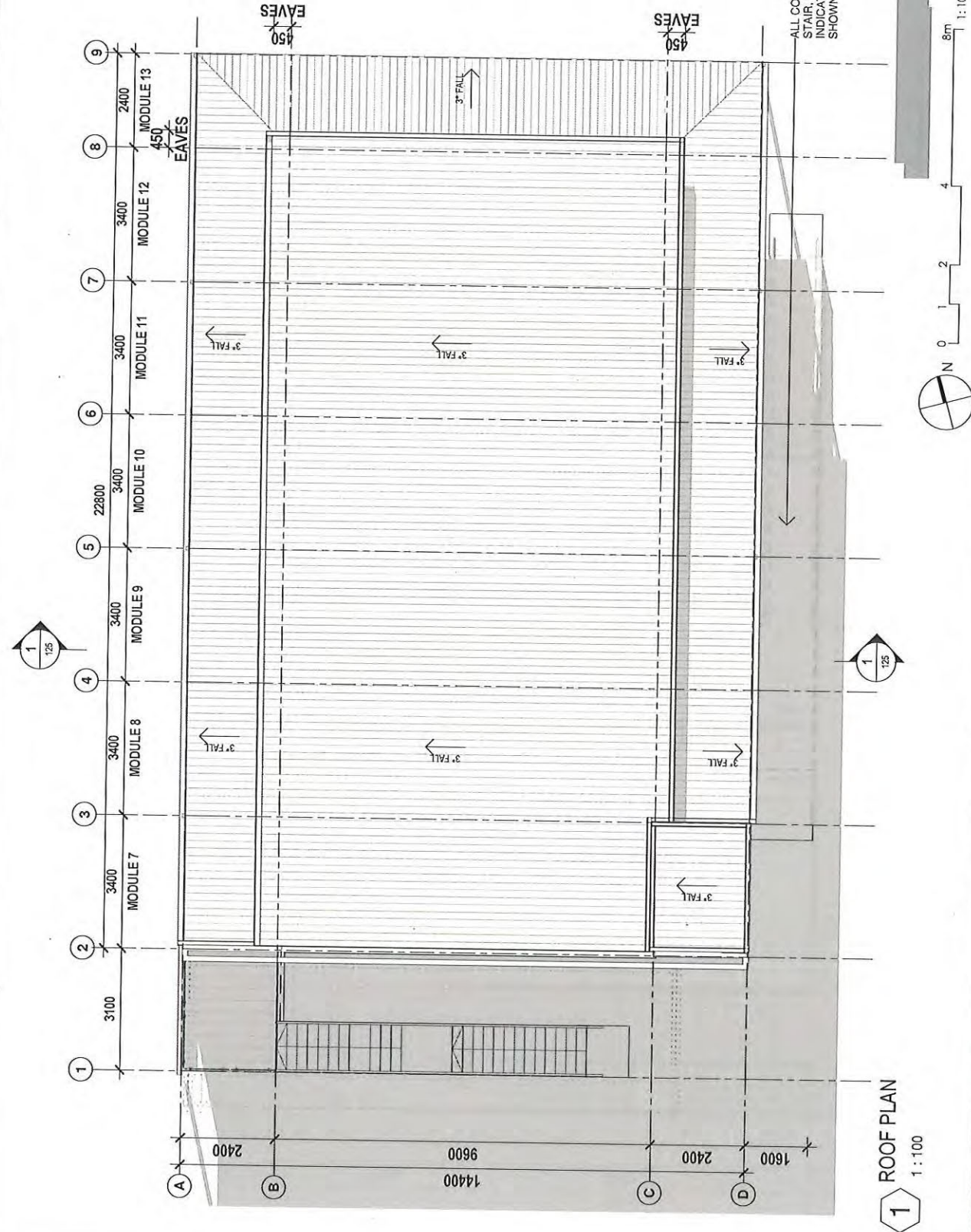
CLIENT APPROVAL:

SIGNATURE NAME:

DATE:

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Sch 2.2(a)(xi)



1 ROOF PLAN
1 : 100

Sch 2.2(a)(ii)

PRELIMINARY DRAWING

T	AS CLODED	MM	08.11.2020
S	AMENDED DETAILS	MM	26.10.2020
R	UPDATED DETAILS/DOOR SCHEDULE	MM	18.10.2020
Q	UPDATED DOOR/WINDOW LOCATIONS/UPDATED	MM	13.10.2020
P	TYPICAL DETAILS	MM	08.10.2020
N	UPDATED R/LG	MM	24.09.2020
M	ADDED/AMENDED DETAILS	MM	22.07.2020
L	ADDED/REMOVED LANDING & STAIRS BY CLIENT	TT	19.05.20
E	RECEIVED DP	TT	
ISSUE	AMENDMENT	BY	DATE

DATE: 24.09.20
DRAWN BY: TT
CHECKED BY: DT
SCALE: 1:100

TITLE: ROOF PLAN

DRAWING NUMBER: MS-200677-103
BUILDING NUMBER: 200677
QUOTATION NUMBER: REV T

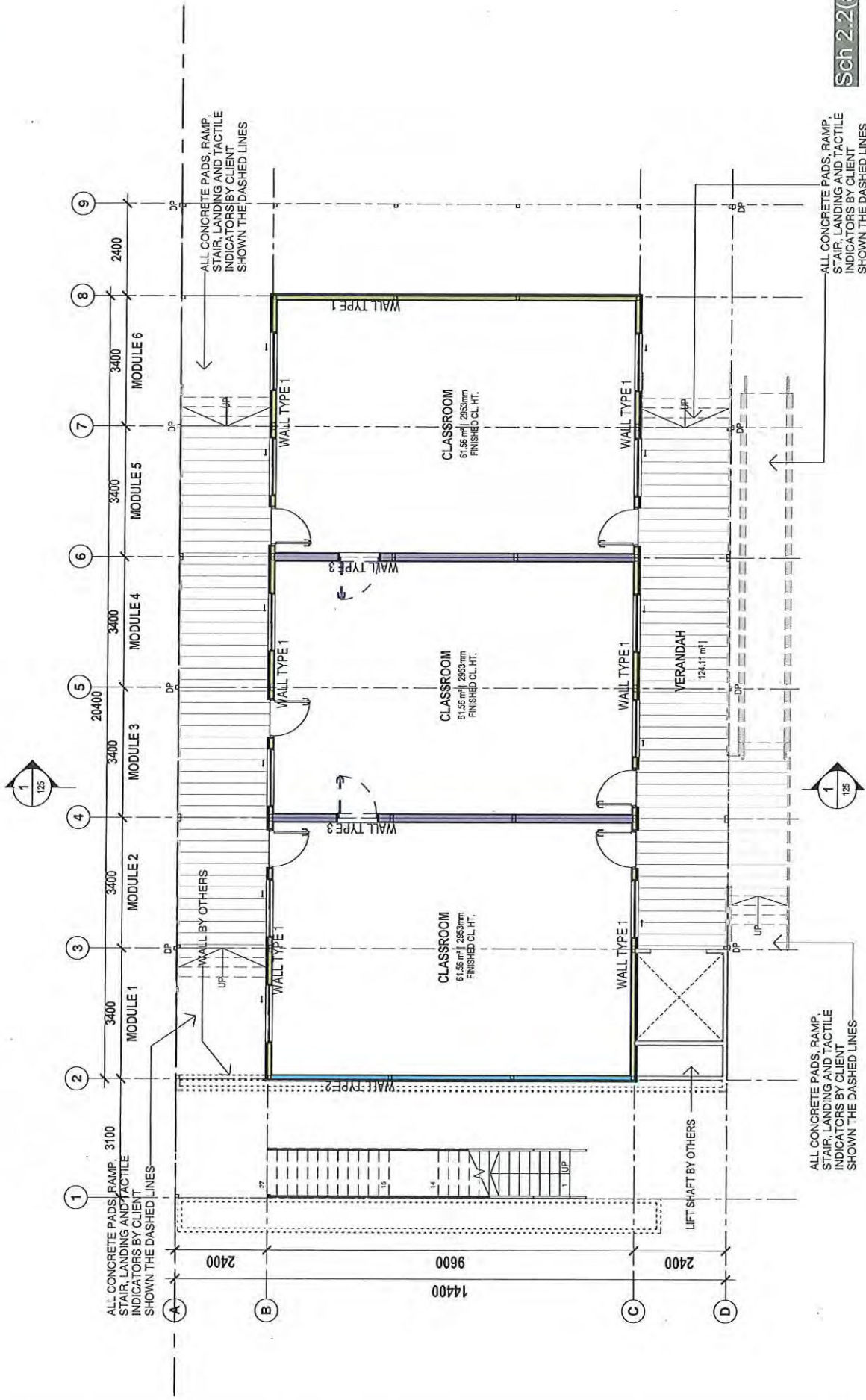
SHEET: A3
OF 103 (11 OF 27)

PROJECT: Sch 2.2(a)(xi) Brindabella College

CLIENT APPROVAL: _____
SIGNATURE: _____
ATE: _____

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Sch 2.2(a)(xi)



ALL CONCRETE PADS, RAMP, STAIR, LANDING AND TACTILE INDICATORS BY CLIENT SHOWN THE DASHED LINES

ALL CONCRETE PADS, RAMP, STAIR, LANDING AND TACTILE INDICATORS BY CLIENT SHOWN THE DASHED LINES

Sch 2.2(a)(ii)

PRELIMINARY DRAWING

ISSUE	BY	DATE
T	AS CLOUED	08.11.2020
S	DETAILS	26.12.2020
R	REVISION DETAILS/SCOPES SCHEDULE	19.12.2020
Q	UPDATED DRAWING/SCOPES LOCATIONS/UPDATED	13.12.2020
P	TYPICAL DETAILS	08.12.2020
N	UPDATED R/L	24.09.2020
J	ADDED/AMENDED DETAILS	30.07.2020
G	REMOVED AMUNITIES & OFFICE	29.05.2020
	AMENDMENT	

WALL TYPE PLAN - GROUND FLOOR

DATE	TITLE
24.09.20	WALL TYPE PLAN - GROUND FLOOR
DRAWN BY	KM
CHECKED BY	ML
SCALE	1 : 100
DRAWING NUMBER	MS-200677-
BUILDING NUMBER	106
QUOTATION NUMBER	200677
REV	T
SHEET	A3

PROJECT

VAMOS GROUP
Brindabella College

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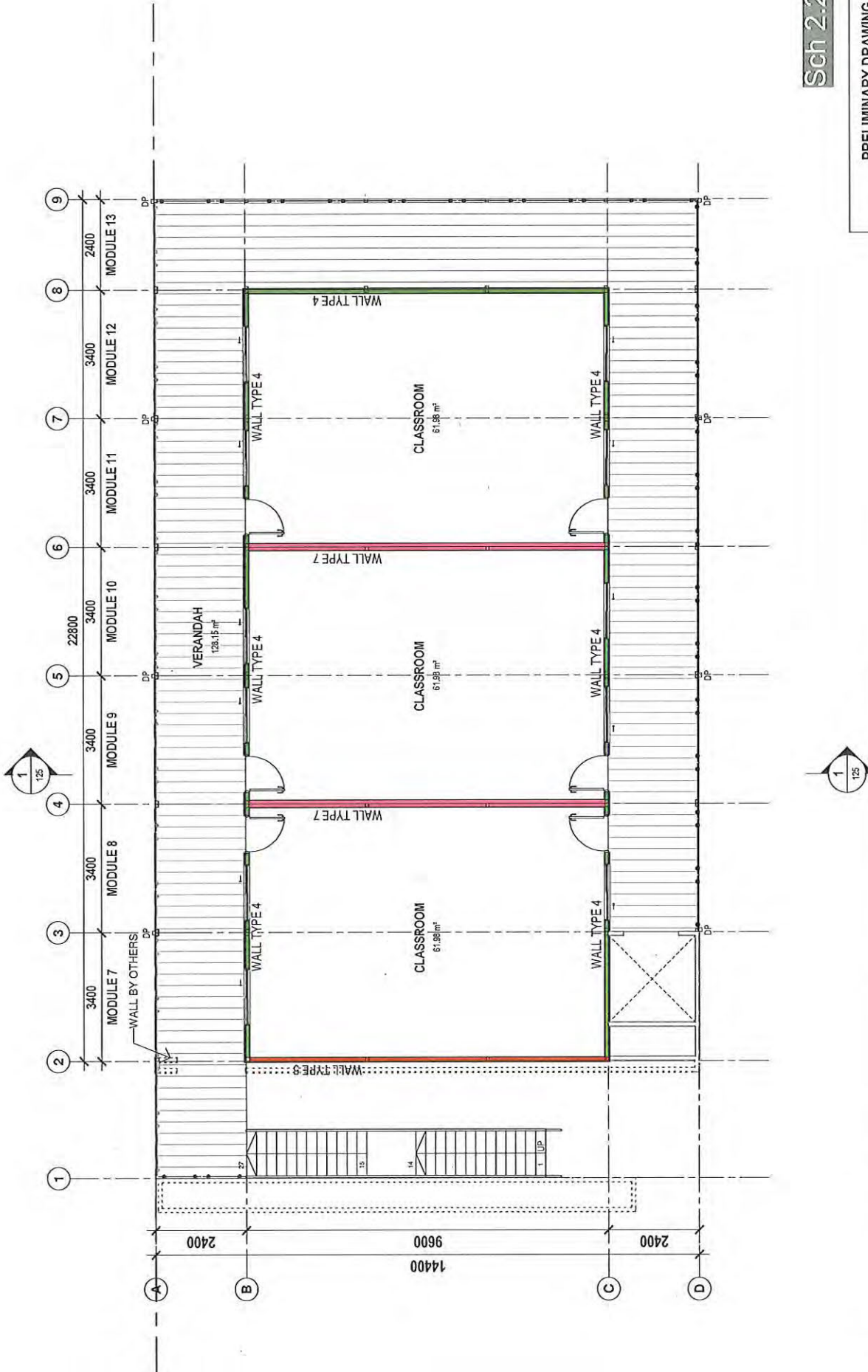
Sch 2.2(a)(xi)

CLIENT APPROVAL

SIGNATURE

NAME

DATE



Sch 2.2(a)(ii)

PRELIMINARY DRAWING

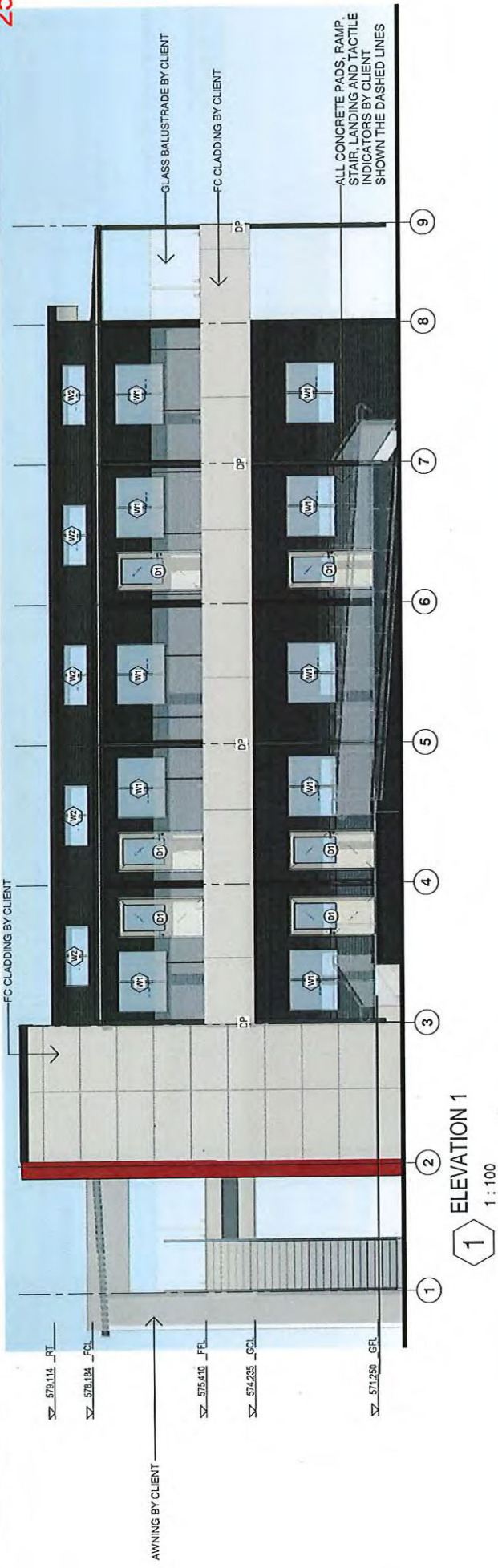
ISSUE	AMENDMENT	BY	DATE
T	AS CLOUED	KM	06.11.2020
S	AMENDED DETAILS	KM	26.10.2020
R	AMENDED DETAILS/DOOR SCHEDULE	KM	19.10.2020
Q	UPDATED DOOR/WINDOW LOCATIONS/UPDATED	KM	13.10.2020
P	TYPICAL DETAILS	KM	
N	AMENDED DETAILS	KM	08.10.2020
M	ADDED NOTES	TT	24.09.2020
L	ADDED WALL UPSTAIRS & DELETED HANDRAILS	TT	26.07.2020

TITLE	WALL TYPE PLAN - FIRST FLOOR		
DATE	24.09.20	DRAWN BY	KM
CHECKED BY	ML	DRAWING NUMBER	MS-200677-
SCALE	1:100	QUOTATION NUMBER	200677-
REV	T	SHEET	A3

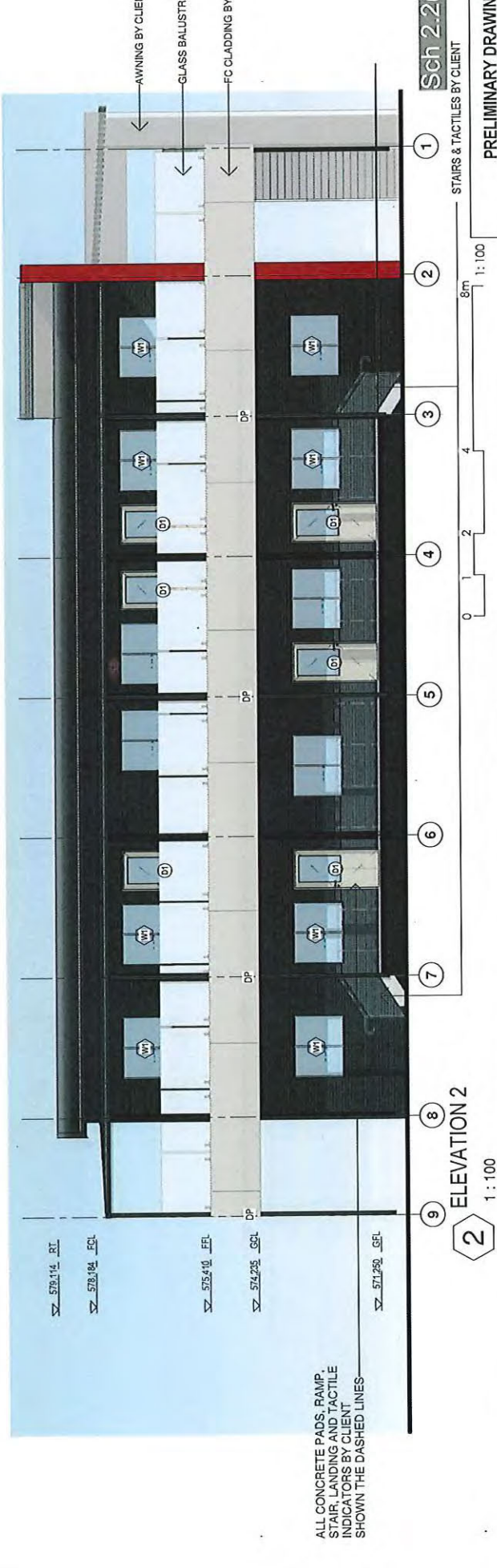
PROJECT	Sch 2.2(a)(xi) Brindabella College		
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SIGNATURE
NAME
DATE

Sch 2.2(a)(xi)



ELEVATION 1
1 : 100



ELEVATION 2
1 : 100

Sch 2.2(a)(ii)

STAIRS & TACTILES BY CLIENT

PRELIMINARY DRAWING

ISSUE	AMENDMENT	BY	DATE
T	AS CLOUSED	IKM	09.11.2020
S	ADDED DETAILS	IKM	26.10.2020
R	AMENDED DETAIL SPOORS SCHEDULE	IKM	18.10.2020
Q	UPDATED DOOR/WINDOW LOCATIONS/UPDATED TYPICAL DETAILS	IKM	13.10.2020
P	UPDATED RL	IKM	08.10.2020
N	ADDED/AMENDED DETAILS	IKM	24.09.2020
L	REDUCED THE ROOFS RL TO SUIT MAX 4100	IKM	06.08.2020
K	REVISED GFL TO 571.250 & FLOORING THICKNESS	IT	06.08.2020

DATE	TITLE	DRAWING NUMBER	QUOTATION NUMBER	REV	T	SHEET	A3
24.09.20	EXTERNAL ELEVATIONS	MS-200677-	200677	120	T		

PROJECT
Sch 2.2(a)(xi)
Brindabella College

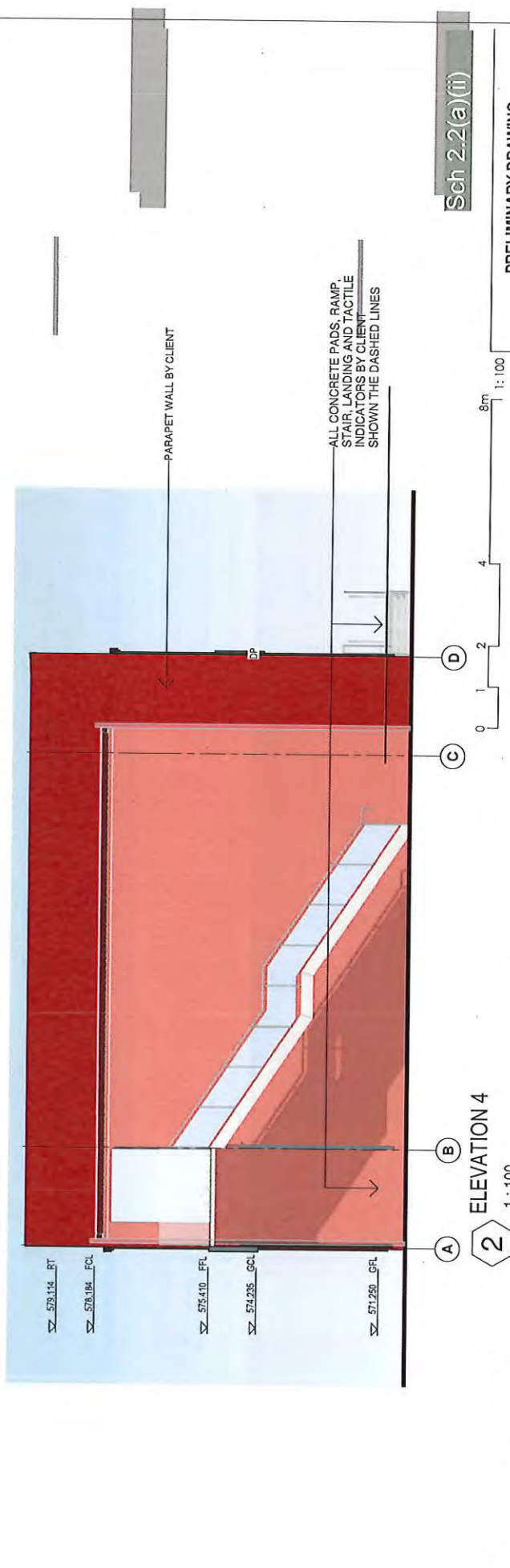
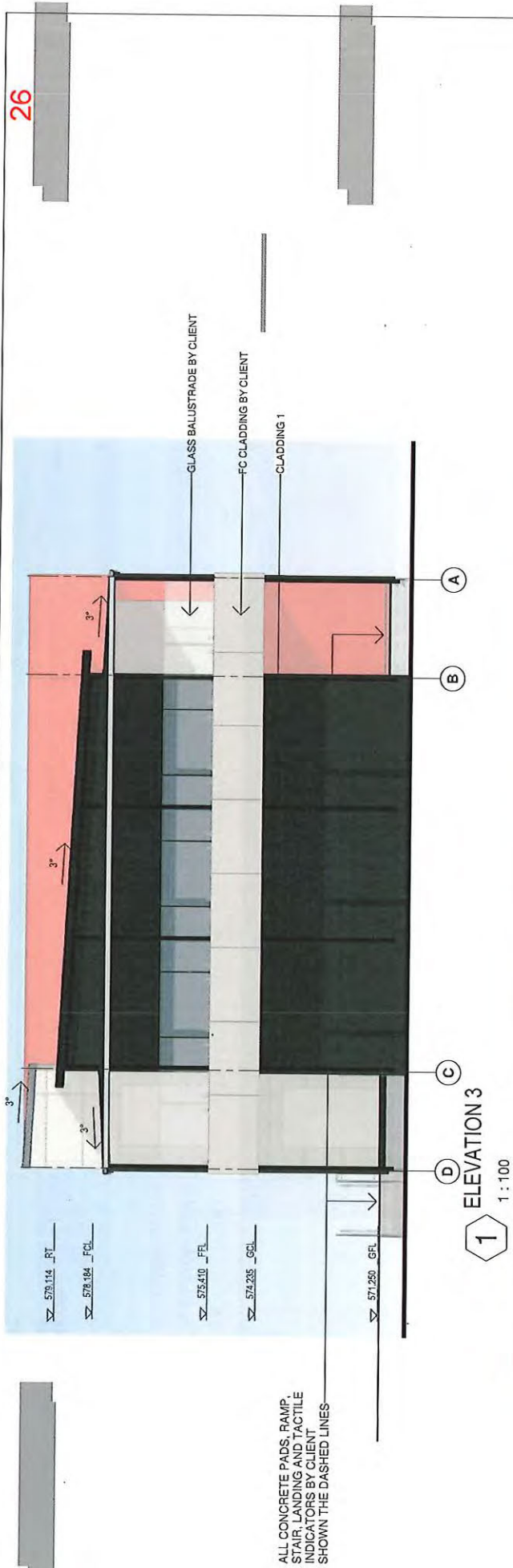
CLIENT APPROVAL
SIGNATURE
NAME
DATE

CHECKED BY
DT
SCALE: 1 : 100

DRAWN BY
TT

CONCEPTS TO ANY PERSON WITHOUT THE PRIOR WRITTEN CONSENT OF [redacted]

Sch 2.2(a)(xi)



Sch 2.2(a)(ii)

PRELIMINARY DRAWING

ISSUE	AMENDMENT	BY	DATE
T	AS CLOUED	KM	08.11.2020
S	AMENDED DETAILS	KM	26.10.2020
R	AMENDED DETAILS/DOOR SCHEDULE	KM	19.10.2020
Q	UPDATED DOOR/WINDOW LOCATIONS/UPDATED TYPICAL DETAILS	KM	13.10.2020
P	UPDATED R/LP	KM	08.10.2020
N	ADDED/AMENDED DETAILS	KM	24.09.2020
M	REMOVED THE R/OOP'S/R/L TO SUIT MAX EUB	TT	06.08.2020
L	REVISED GFL TO ST/2'S/8 FLOORING THICKNESS	TT	06.08.2020

EXTERNAL ELEVATIONS

DATE: 24.09.20
 DRAWN BY: TT
 CHECKED BY: DT
 SCALE: 1:100

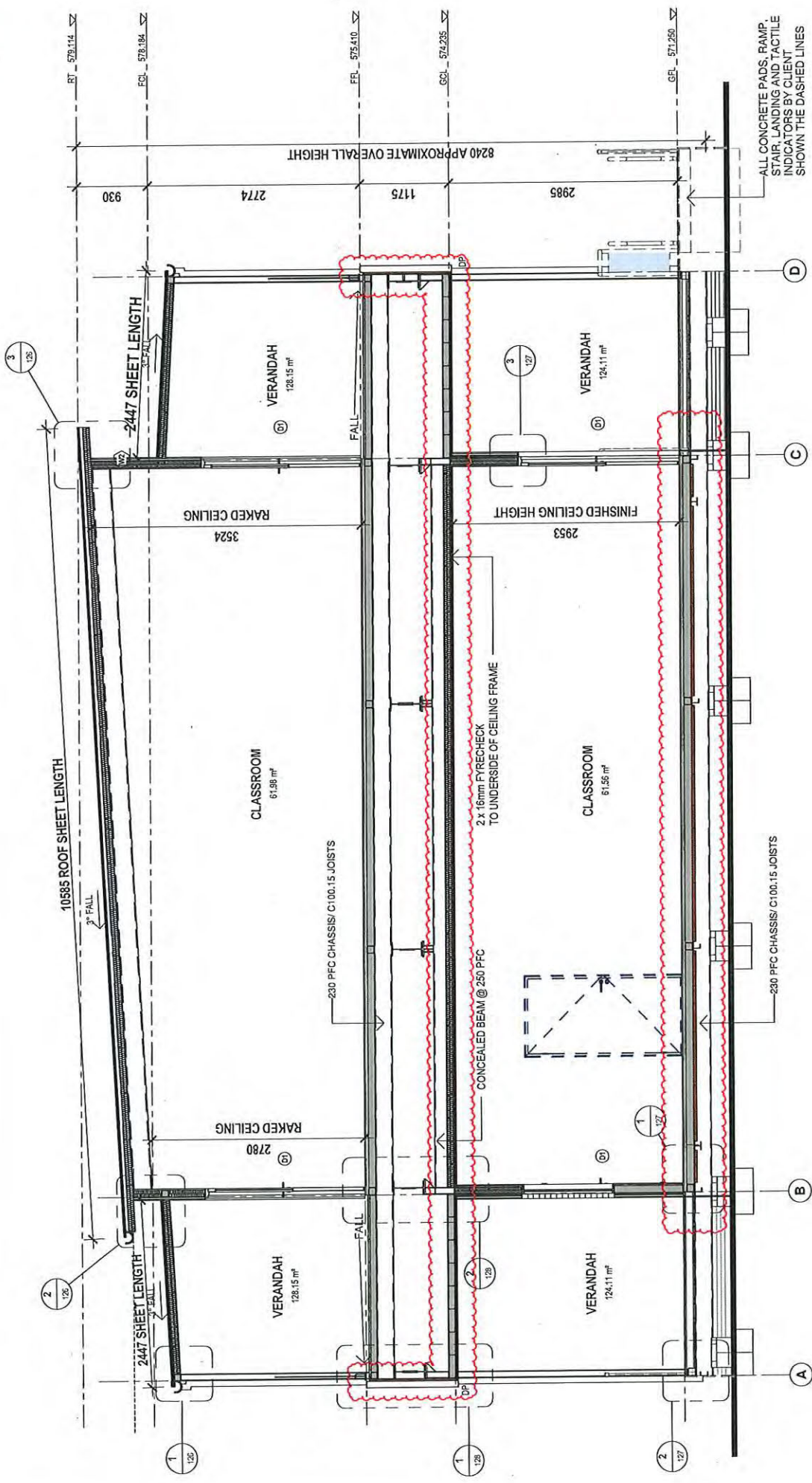
DRAWING NUMBER: MS-200677-121
 QUOTATION NUMBER: 200677
 REV: T
 SHEET: A3
 24.09.2020 11:08:46 AM

Sch 2.2(a)(xi)

PROJECT: Brindabella College

CLIENT APPROVAL: _____
 SIGNATURE: _____
 NAME: _____
 DATE: _____

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1 TYPICAL SECTION
1 : 50



NOTE: REFER TO FIRE RAT Sch 2.2(a)(ii)

PRELIMINARY DRAWING

ISSUE	AMENDMENT	BY	DATE
T	AS CLOURED	IM	08.11.2020
S	AMENDED DETAILS	IM	20.10.2020
R	AMENDED DETAILS DOORS SCHEDULE	IM	19.10.2020
O	UPDATED DOOR WINDOW LOCATIONS UPDATED	IM	11.10.2020
P	TYPICAL DETAILS	IM	08.10.2020
N	ADDED DIMENSIONS	IM	24.09.2020
L	REDUCED THE ROOFS RL TO SUIT MAX 4100	IT	06.09.2020
K	REVISED GFL TO 577.250 & FLOORING THICKNESS	IT	06.09.2020

DATE	TITLE	SECTION
24.09.20		
DRAWN BY	TT	
CHECKED BY	DT	
SCALE	1:50	
DRAWING NUMBER	MS-200677-	
QUOTATION NUMBER	200677	
BUILDING NUMBER	125	
REV	T	
SHEET	A3	

PROJECT
Sch 2.2(a)(xi)
Brindabella College

CLIENT APPROVAL

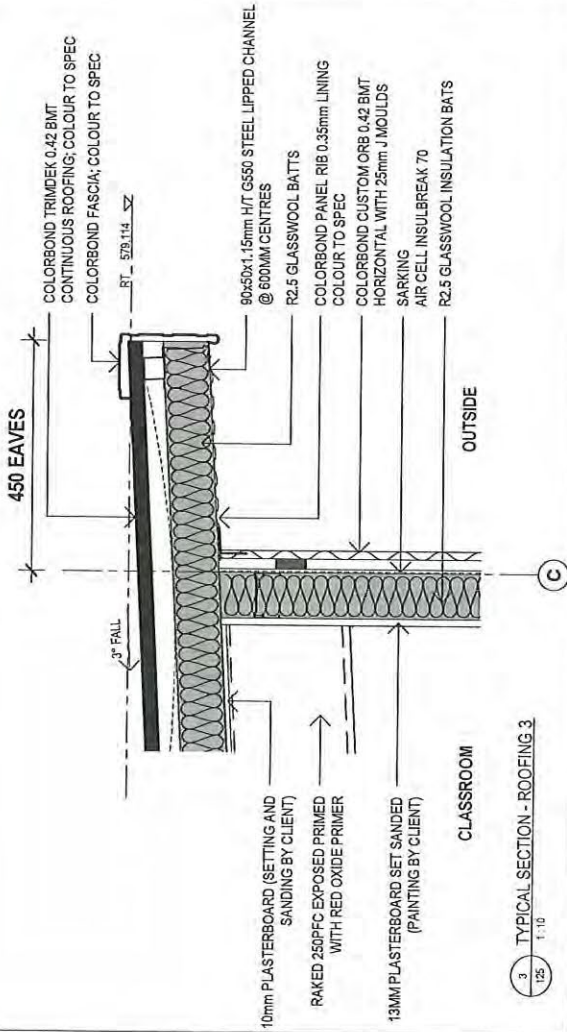
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NAME

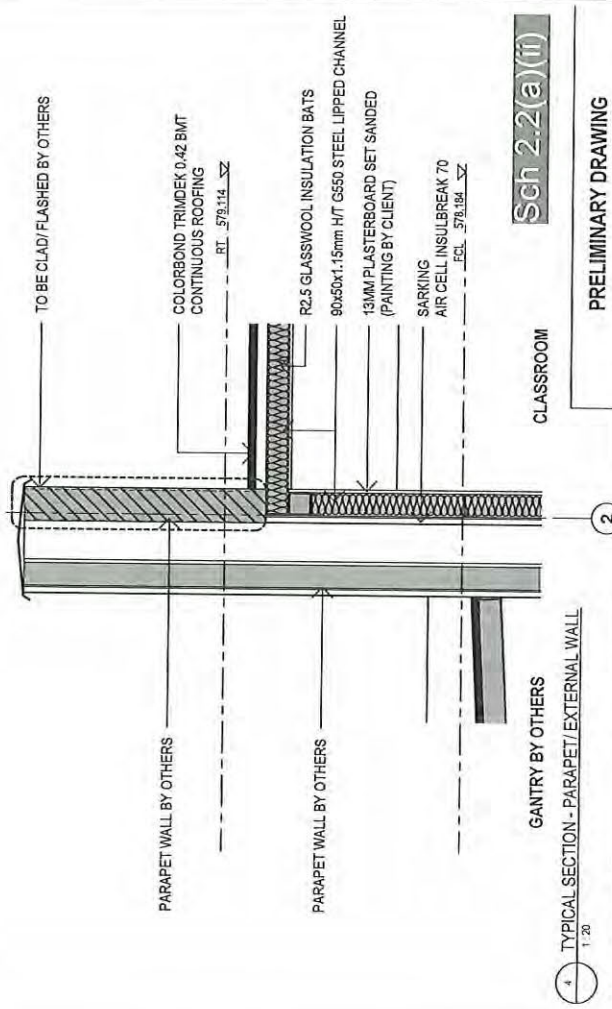
DATE

SCH 2.2(a)(xi)

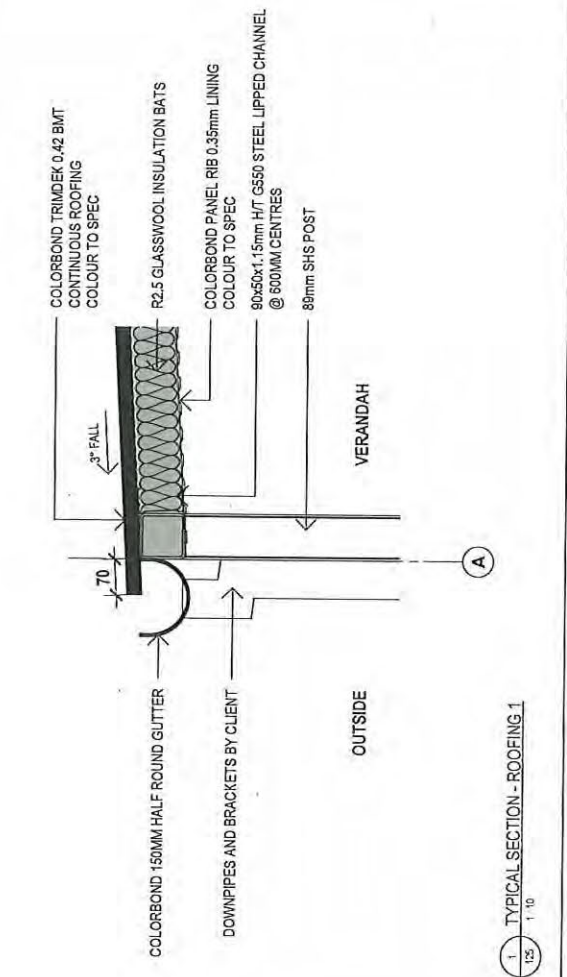
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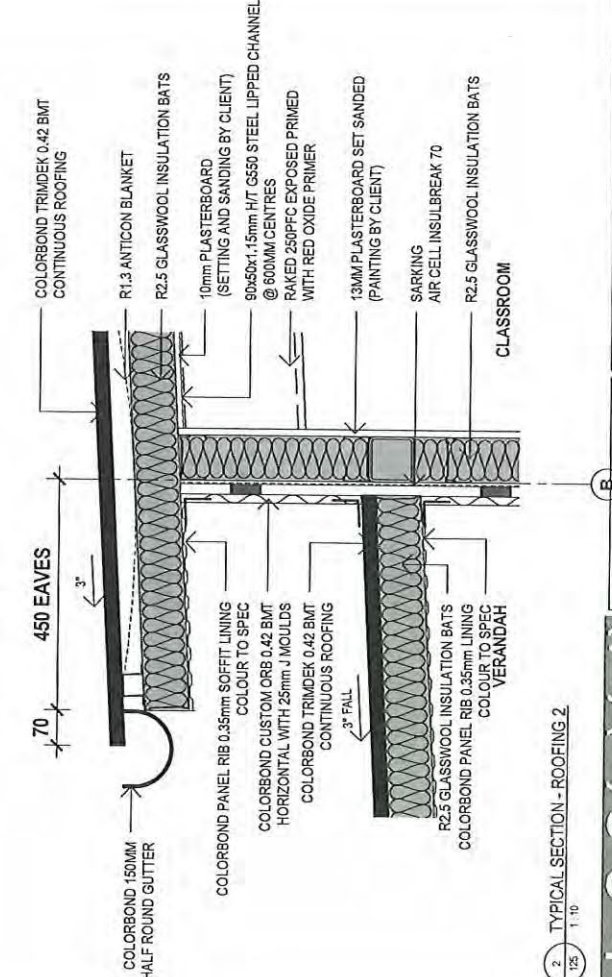
3 TYPICAL SECTION - ROOFING 3
1:10



4 TYPICAL SECTION - PARAPET/EXTERNAL WALL
1:20



1 TYPICAL SECTION - ROOFING 1
1:10



2 TYPICAL SECTION - ROOFING 2
1:10

Sch 2.2(a)(xi)

Brindabella College

PROJECT

CLIENT APPROVAL

SIGNATURE

NAME

DATE

Sch 2.2(a)(ii)

CLASSROOM

PRELIMINARY DRAWING

DATE

24.05.20

DRAWN BY

KM

CHECKED BY

ML

DRAWING NUMBER

MS-200677-

BUILDING NUMBER

126

QUOTATION NUMBER

200677

REV

T

SHEET

A3

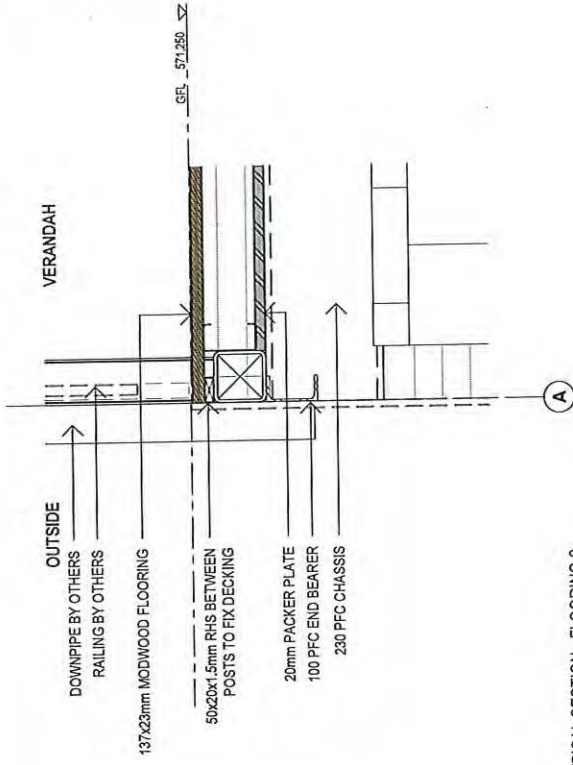
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ISSUE

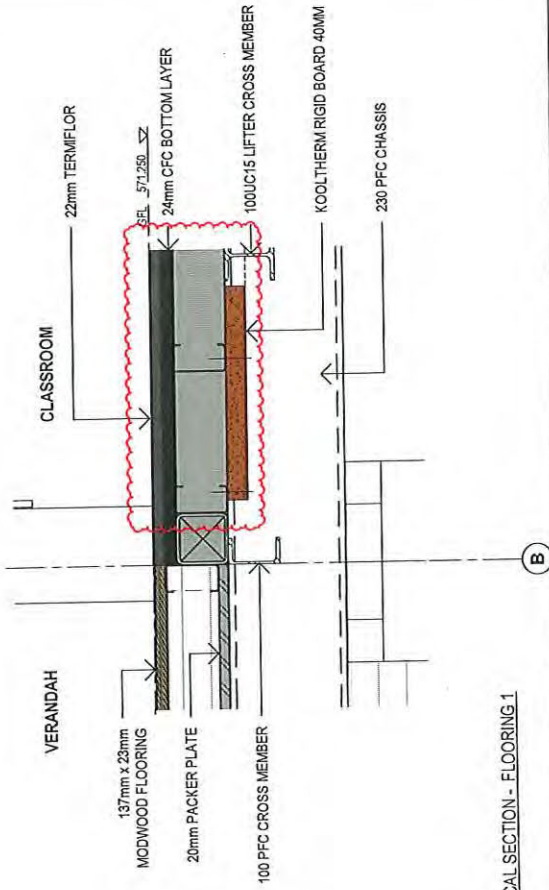
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T	AS CLOUED	06.11.2020	KM
S	AMENDED DETAILS	26.10.2020	KM
R	AMENDED DETAIL/DOOR SCHEDULE	19.10.2020	KM
Q	UPDATED DOOR WINDOW LOCATIONS/UPDATED TYPICAL DETAILS	13.12.2020	KM
P	UPDATED RCP	06.10.2020	KM
N	REORDERED DETAILS	06.10.2020	KM

TYPICAL DETAILS

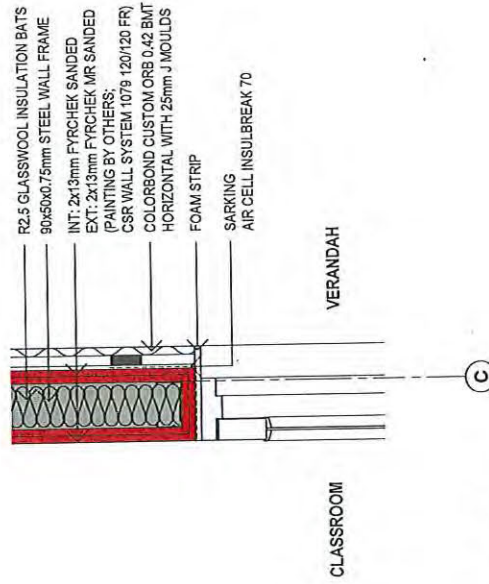
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2 TYPICAL SECTION - FLOORING 2
1:10



1 TYPICAL SECTION - FLOORING 1
1:10



3 TYPICAL SECTION - EXT. DOOR/WALL
1:10

Sch 2.2(a)(ii)

NOTE: REFER TO FIRERATING REPORT - TBC

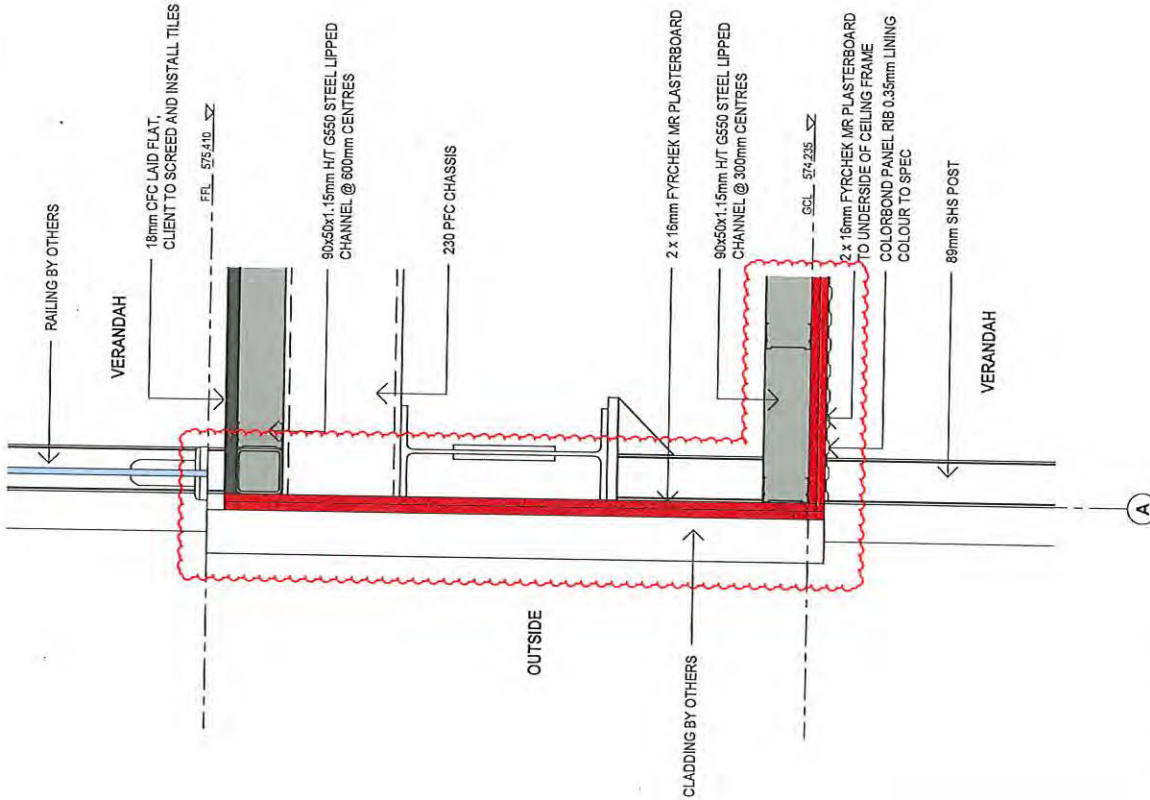
PRELIMINARY DRAWING

ISSUE	AMENDMENT	BY	DATE
T	AS CLOURED	KM	05.11.2020
S	AMENDED DETAILS	KM	26.10.2020
R	AMENDED DETAILS/DOOR SCHEDULE	KM	19.10.2020
Q	UPDATED DOOR/WINDOW LOCATIONS/UPDATED TYPICAL DETAILS	KM	13.10.2020
P	UPDATED RLs	KM	05.10.2020
O	AMENDED VERANDAH PACKER DETAILS	KM	20.09.2020
N	AMENDED DETAILS	KM	20.09.2020

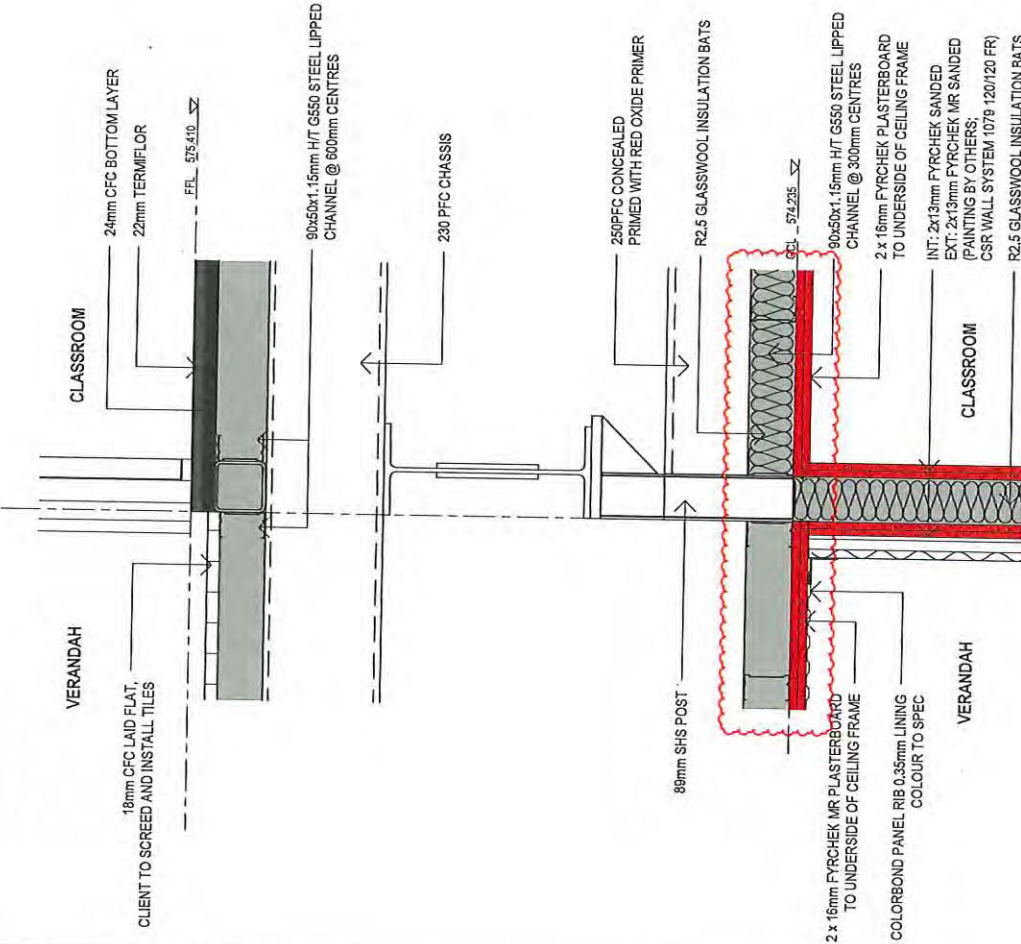
TITLE	DATE	SCALE	QUOTATION NUMBER	REV	T	SHEET	A3
TYPICAL DETAILS	24.09.20	1:10	200677	127			
DRAWN BY	KM						
CHECKED BY	ML						
DRAWING NUMBER	MS-200677-						
BUILDING NUMBER							

PROJECT	CLIENT APPROVAL
Sch 2.2(a)(xi) Brindabella College	SIGNATURE NAME DATE

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1 TYPICAL SECTION - VERANDAH
1:10



2 TYPICAL SECTION - CLASSROOM
1:10

Sch 2.2(a)(ii)

NOTE: REFER TO FIRERA

TYPICAL DETAILS

PRELIMINARY DRAWING

DATE	24.09.20
DRAWN BY	KM
CHECKED BY	ML
SCALE	1 : 10

TITLE	TYPICAL DETAILS		
DRAWING NUMBER	MS-200677-	BUILDING NUMBER	128
QUOTATION NUMBER	200677	REV	T
SHEET	A3	BY	DATE

ISSUE	AMENDMENT	BY	DATE
T	AS CLOUDED	KM	06.11.2020
S	AMENDED DETAILS	KM	26.10.2020
R	AMENDED DETAIL/DOOR SCHEDULE	KM	15.10.2020
Q	UPDATED DOOR/WINDOW LOCATIONS/UPDATED TYPICAL DETAILS	KM	13.10.2020
P	UPDATED RER	KM	06.10.2020
N	PROPOSED/AMENDED DETAILS	KM	24.09.2020

PROJECT
Sch 2.2(a)(ii)
Brindabella College

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SIGNATURE
NAME
DATE

Sch 2.2(a)(ii)

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Sch 2.2(a)(ii)
 NOTE: REFER TO FRERA

PRELIMINARY DRAWING

ISSUE	AMENDMENT	BY	DATE
T	AS CLOURED	KM	08.11.2020
S	AMENDED DETAILS	KM	24.11.2020
R	AMENDED DETAILS/DOOR SCHEDULE	KM	24.11.2020
Q	UPDATED DOOR WINDOW LOCATIONS/UPDATED TYPICAL DETAILS	KM	11.12.2020
P	UPDATED R/Ls	KM	08.12.2020
N	ADDED/AMENDED DETAILS	KM	24.02.2020

DATE	TITLE
24.09.20	WALL TYPE DETAILS
DRAWN BY KM	
CHECKED BY ML	DRAWING NUMBER MS-200677-
SCALEs as indicated	QUOTATION NUMBER 200677
	REV T

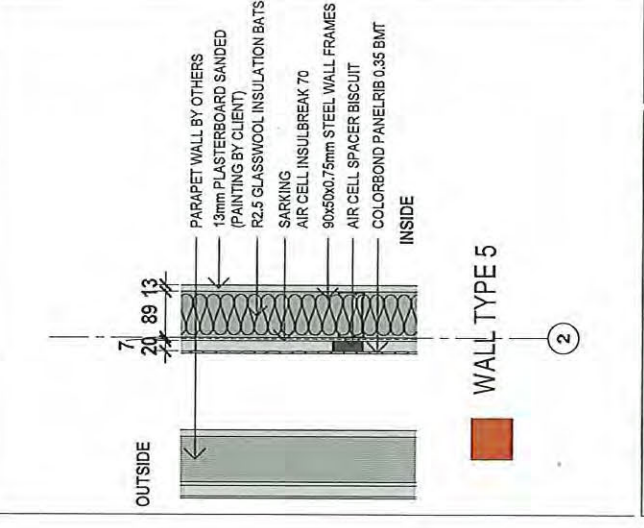
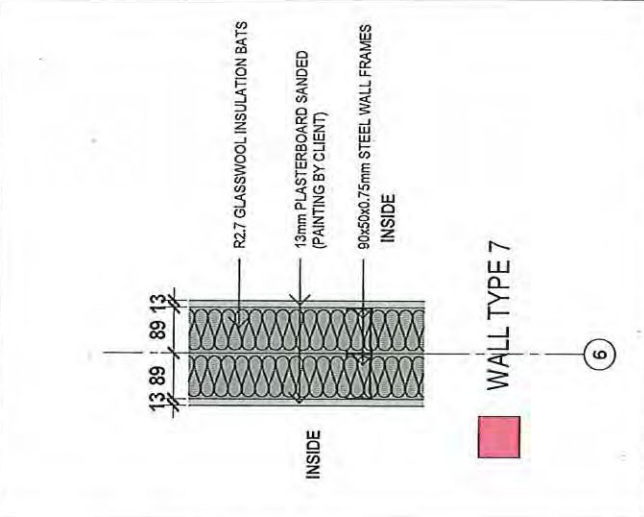
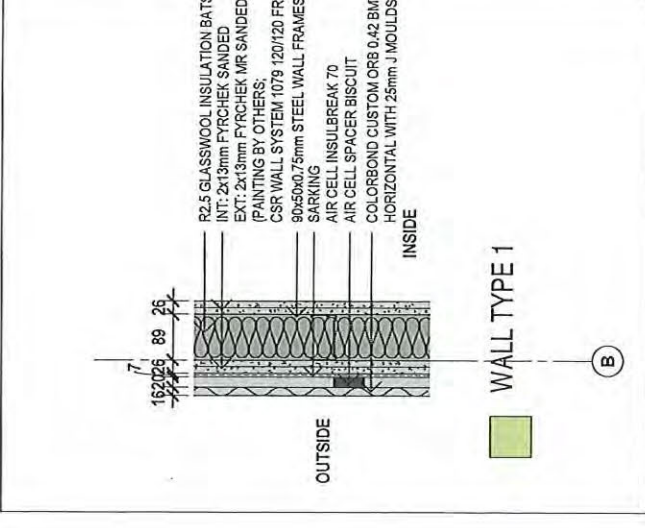
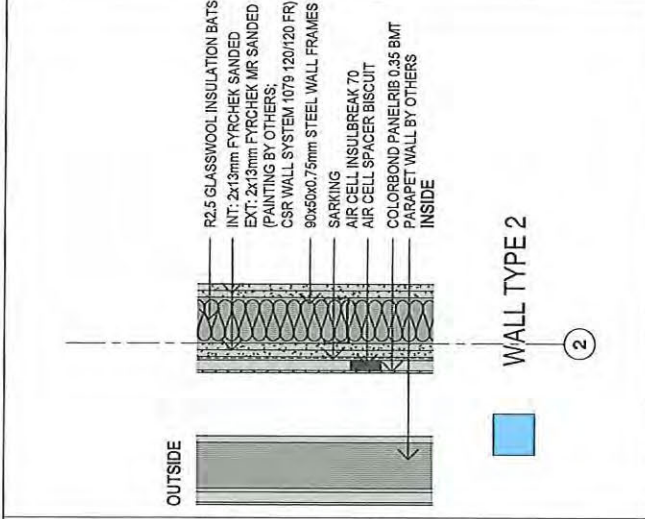
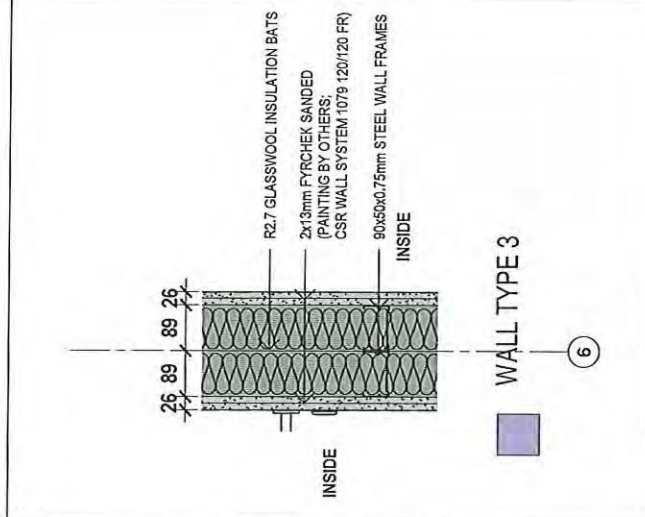
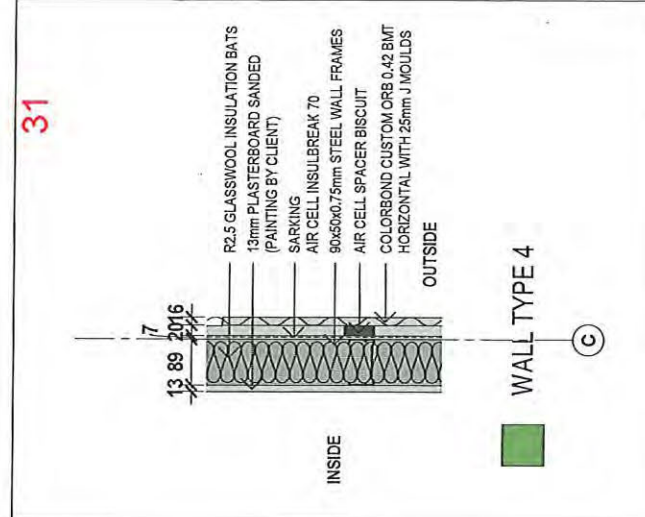
PROJECT	DATE
Sch 2.2(a)(xi) Brindabella College	24.09.20

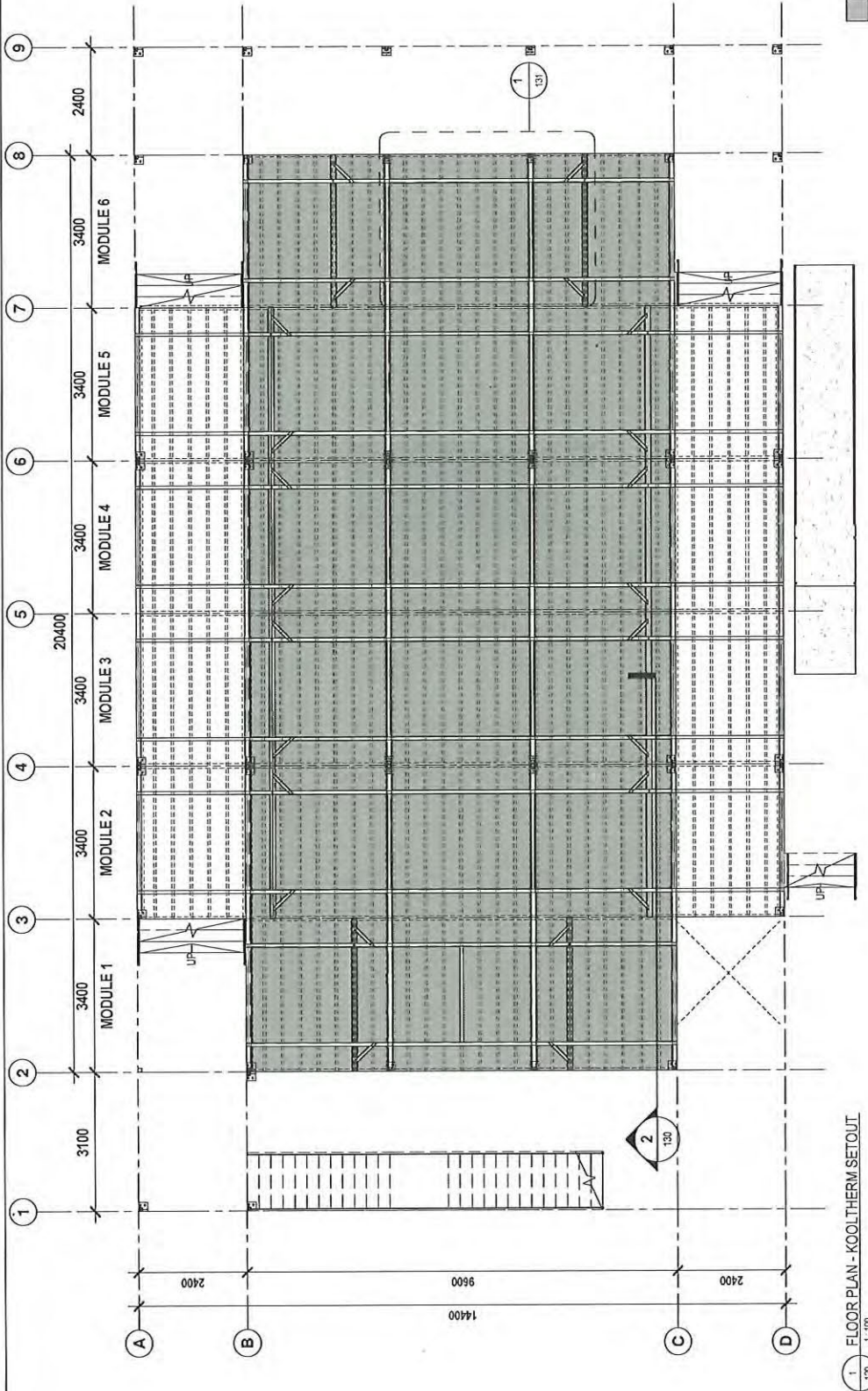
CLIENT APPROVAL
SIGNATURE
NAME
DATE

Sch 2.2(a)(xi)

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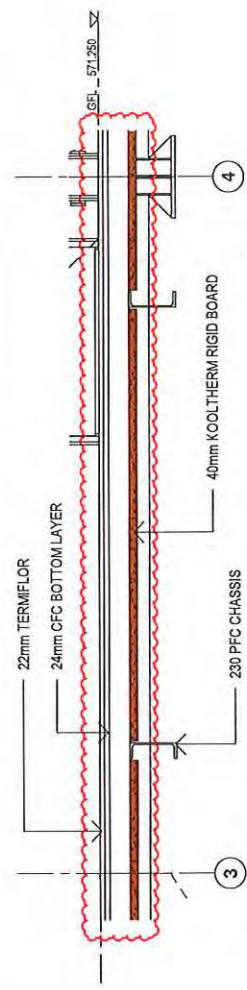
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1. FLOOR PLAN - KOOLTHERM SETOUT
1:100

40mm KOOLTHERM RIGID BOARD



2. SECT. DETAIL - KOOLTHERM
1:25

Sch 2.2(a)(xi)

CLIENT APPROVAL
SIGNATURE
NAME
DATE

PROJECT
Sch 2.2(a)(ii)
Brindabella College

DATE: 24.09.20
DRAWN BY: KM
CHECKED BY: ML
SCALES: Indicated

TITLE: KOOLTHERM DETAIL
DRAWING NUMBER: MS-200877-130
BUILDING NUMBER: 200877
REV: T

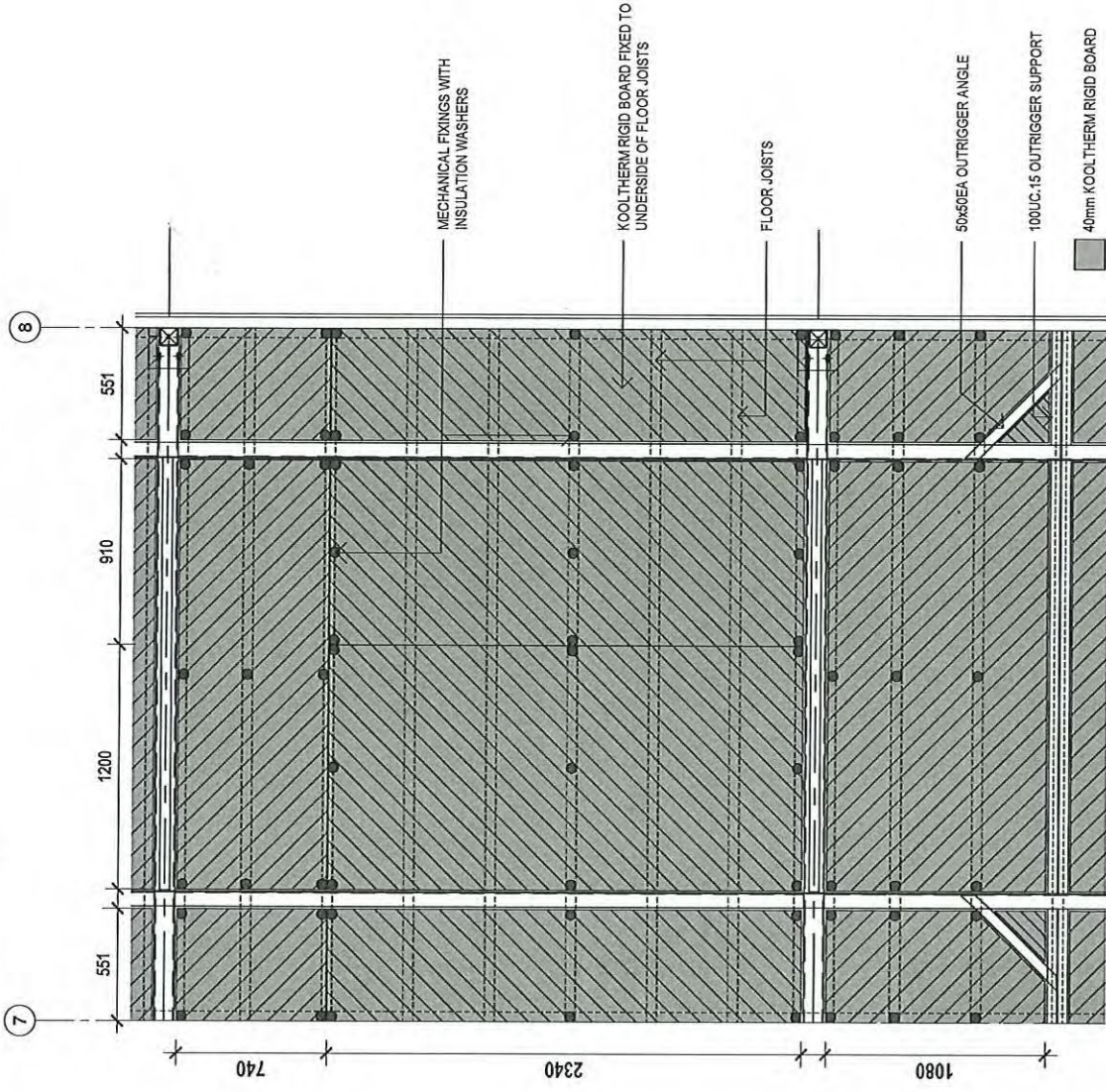
PRELIMINARY DRAWING

ISSUE	AMENDMENT	BY	DATE
T	AS CLOUED	KM	09.11.2020
S	AMENDED DETAILS	KM	26.10.2020
R	AMENDED DETAILS/DOOR SCHEDULE	KM	19.10.2020
Q	UPDATED DOOR/WINDOW LOCATIONS/UPDATED TYPICAL DETAILS	KM	13.10.2020
P	TYPICAL DETAILS	KM	08.10.2020
N	ADDED/AMENDED DETAILS	KM	24.09.2020
J	ADDED NOTES	TT	30.07.2020
G	REMOVED AMUNITES & OFFICE	TT	29.05.2020

Sch 2.2(a)(ii)

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SHEET: A3
4/1/2021 11:00:07 AM



1 PLAN DETAIL - KOOLTHERM TYPICAL FIXING
1:25

Sch 2.2(a)(ii)

Sch 2.2(a)(xi)

CLIENT APPROVAL
SIGNATURE
NAME
DATE

PROJECT
Sch 2.2(a)(xi)
Binnabelle College

DATE 24.09.20
DRAWN BY KM
CHECKED BY MBS
SCALE: 1:25
DRAWING NUMBER MS-200677-131
QUOTATION NUMBER 200677
REV T SHEET A3
BY DATE

TITLE
KOOLTHERM FIXING DETAIL
BUILDING NUMBER
REV T SHEET A3

PRELIMINARY DRAWING

ISSUE	AMENDMENT	BY	DATE
T	AS CLOUDED	KM	06.11.2020
S	AMENDED DETAILS	KM	26.10.2020
R	AMENDED DETAILS/DOOR SCHEDULE	KM	19.10.2020

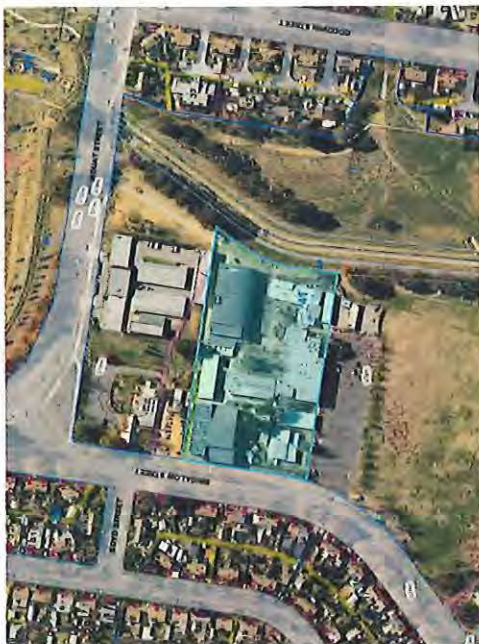
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Waterproofing design & External wall system disclosure statement
 Project number: 1506.16
 Project name: 1506.16 - Brindabella Christian College - 2 Storey, Demountable building
 Address: 132 Brigalow Street, Lynnham ACT 2602

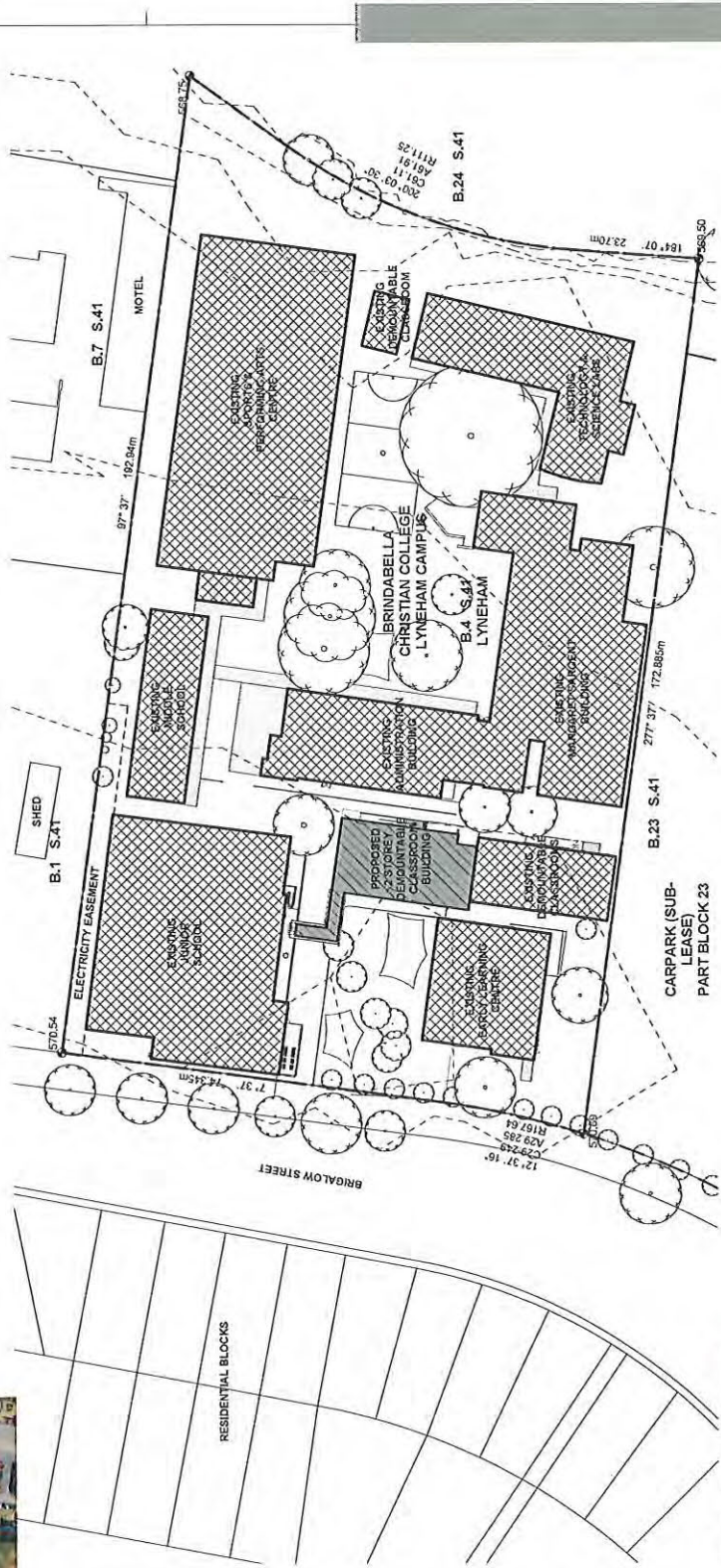
Brindabella Christian College
 Block 04 section 41, Lynnham ACT
 FIRE ENGINEERING REPORT
 B150 Issue 02 Revision 00 17-Nov-20

TABLE 1: PERFORMANCE SOLUTION SUMMARY

Assessment	Reference BCA Provisions and Performance Requirements	BES Solution	BCA Assessment
Reclassification of FR-L External Walls	CL1 CP1 DP1 A2.1 (f)	A2.1 (f)	C A2.2 (2)(b)(ii)
Automatic Fire Detection and Alarm System	AS 1920.1 Clause 23 CP2 DP1 CL2	A2.1 (f)	D A2.2 (2)(b)(ii)
Protection of Openings	CP2 DP1 DL4 DL5 DM	A2.1 (j) A2.1 (k) A2.1 (l)	C A2.2 (2)(b)(ii)
Distance of Travel	DL4 DL5 DM	A2.1 (j) A2.1 (k) A2.1 (l)	C A2.2 (2)(b)(ii)



LOCATION PLAN



1 PROPOSED PLAN - SITE GENERAL
 02/20 1:100

THIS SET OF DRAWINGS ARE MEANT TO BE READ IN CONJUNCTION WITH MBS CONSTRUCTION DRAWINGS & DETAILS

Building Approval
 Issued under section 28 of the Building Act 2004

Sch 2.2(a)(ii)

Sch 2.2(a)(xi)

BUILDINGS APPROVAL

Project Name: BRINDABELLA CHRISTIAN COLLEGE
 Project Address: 132 BRIGALOW STREET, LYNNHAM ACT 2602
 Project Manager: SV
 Design Manager: NI
 Design Author: SV
 Design Year: SV

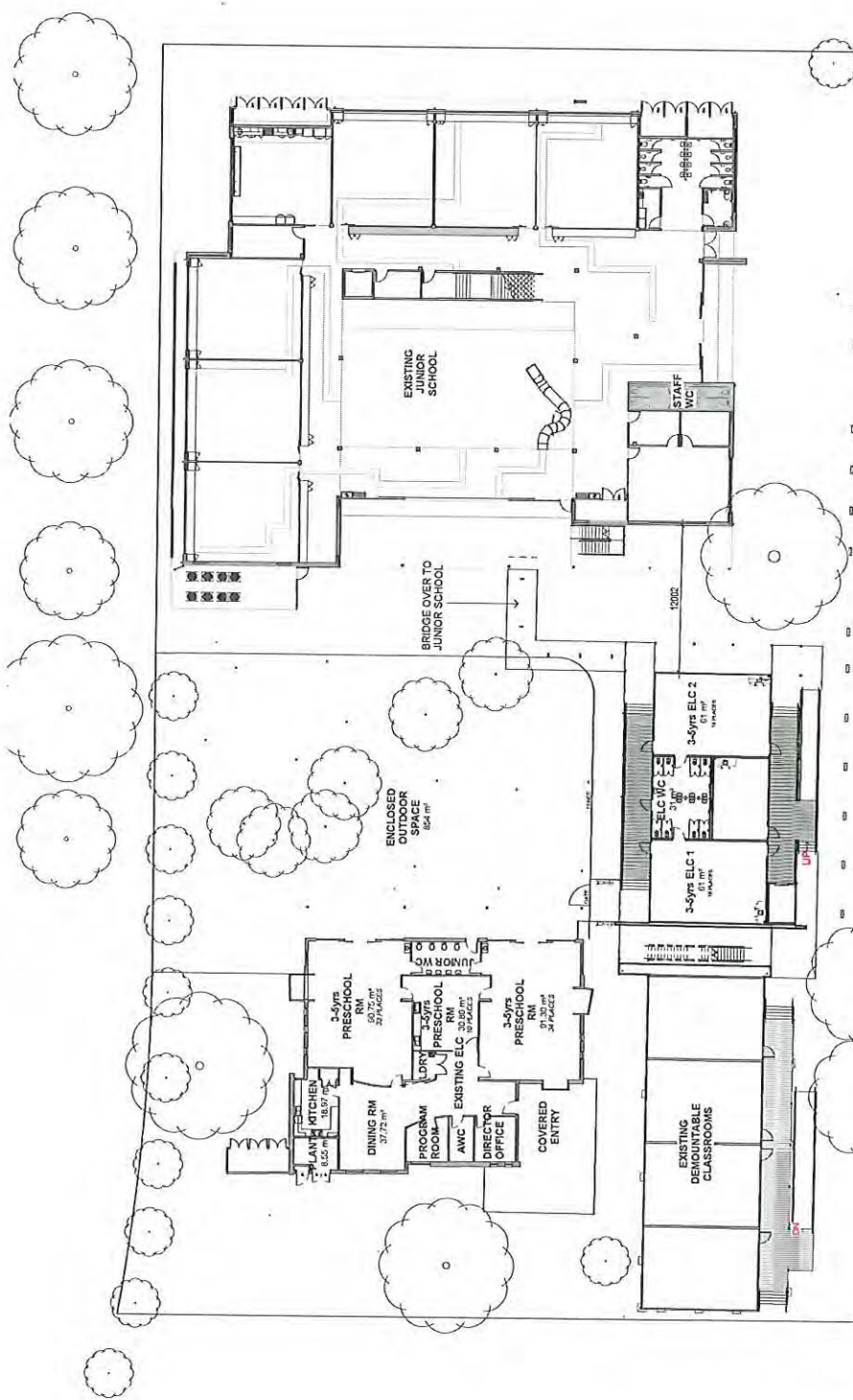
Block: 4
 Section: 41
 Domain: LYNNHAM

LOCATION & GENERAL SITE PLAN

Scale: 1:500
 Project No: 1506.16
 Project Name: A001

Drawn: DT
 Checked: A
 Approved: A

REV	DATE	DESCRIPTION
A	04/21	FOR CONSTRUCTION



PROPOSED PLAN - ELC
A330 T. 200



SCALE: 1/200 @ ORIGINAL SCALE

REV	DATE	DESCRIPTION
A	04/21	FOR CONSTRUCTION

<p>Building Approval As Issued under section 28 of the Building Act 2004</p> <p>Sch 2.2(a)(ii)</p>		<p>Sch 2.2(a)(xi)</p>	
<p>Client: BRINDABELLA CHRISTIAN COLLEGE</p> <p>Project Title: DEMOUNTABLE V2</p>		<p>Project Status: BUILDING APPROVAL</p> <p>New Address: 13 BERGLOW STREET, LYNEHAM ACT 2022</p>	
Design Project Manager:	SV	Project Architect:	NI
Design Number:	SV	Project Size:	A1
Project No.:	1 200	Street No.:	A130
Project Name:	1506.16	Suburb:	LYNEHAM
Number of Sheets:	4	Sheet No.:	41
Number of Sheets:	4	Sheet No.:	41
Number of Sheets:	4	Sheet No.:	41

All dimensions in millimeters. Do not scale drawings. All elements are to be constructed in accordance with the Australian Standard AS/NZS 1170:2002. Work to be prepared in accordance with the Australian Standard AS/NZS 1170:2002. All work must be in compliance with applicable laws or specifications.

LEGEND - PROPOSED - FLOOR PLAN	
	DOOR TAG. REFER DOOR SCHEDULE FOR DETAILS
	WINDOW NOTYPE.
	ROOM TAG. AREA 100.00m ²
	EXISTING ELEMENTS
	PROPOSED ELEMENTS

NOTES

AS PER FIRE ENGINEER REPORT:

- ALL EXTERNAL WALLS AND INTERNAL WALLS TO THE LOWER LEVEL WITH HAVE TWO LAYERS OF 130mm FIRE RATED CONCRETE.
- THE CEILING SEPARATING THE STOREYS WILL HAVE TWO LAYERS OF 130mm FIRE RATED CONCRETE.
- ALL EXTERNAL WALLS WHICH SUPPORT THE FIRST FLOOR VERANDAH WILL BE PAINTED WITH AN ALPOLIC FINISH TO ACHIEVE THE REQUIREMENTS OF TYPE B CONSTRUCTION IN REGARDS TO NON-FEATURE CLADDING TO BE ALPOLIC NC
- REFER TO MGS FOR CONSTRUCTION DRAWINGS FOR DETAILS: 125, 126, 129, 106, 107

SCREEN ZONE (SZ)

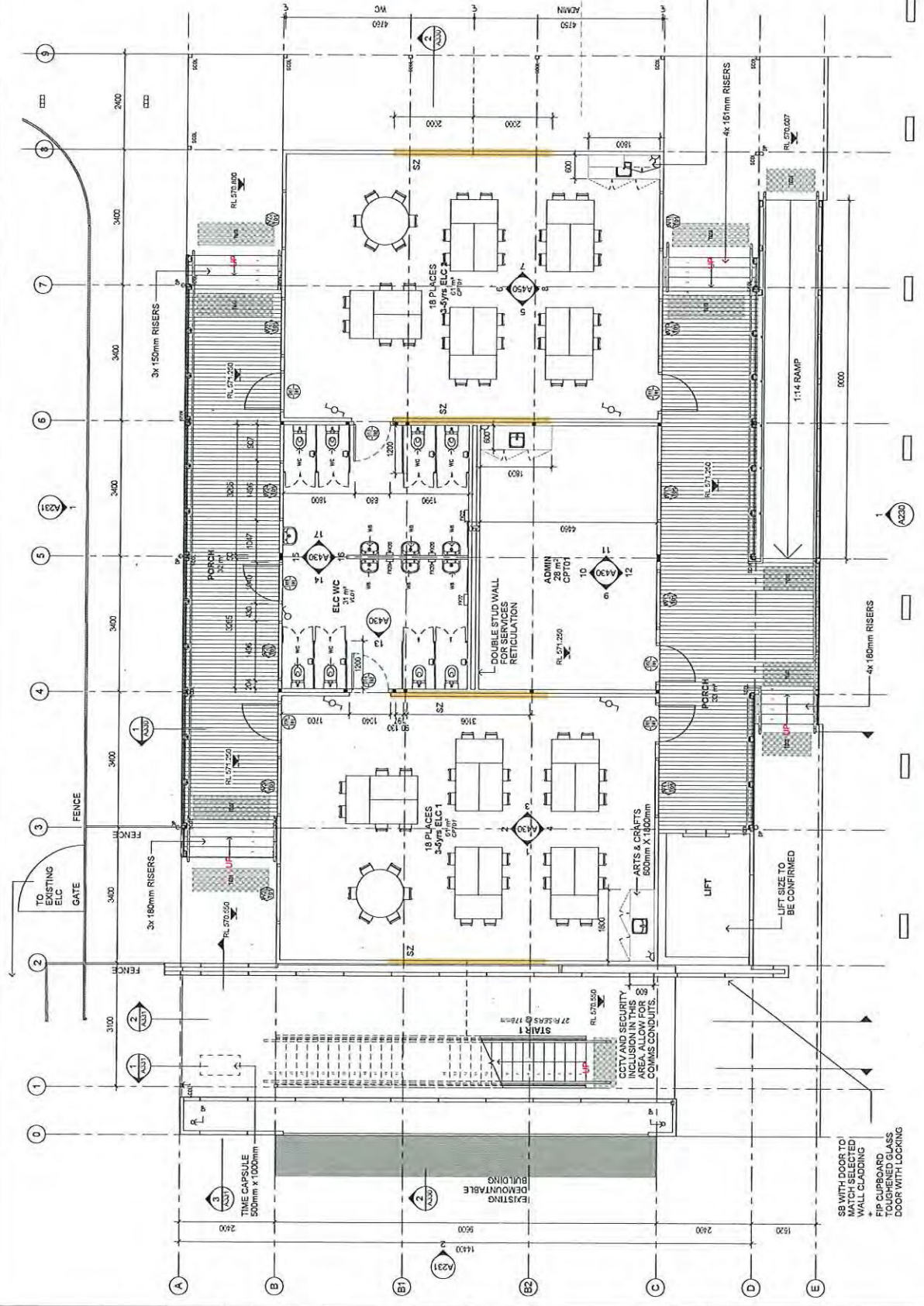
- SCREEN ZONE TO BE SCREENED OR INTERACTIVE FLAT PANEL
- ALLOW FOR ADDITIONAL WALL SUPPORT, STUDS AND JOISTS. PROVIDE DEDICATED POWER POINTS TO THE CENTRE OF THE ZONE

KEYNOTE	DESCRIPTION
DP	DOWNPIPE
FX20	SOAP DISPENSER REFER TO FITTINGS, FIXTURES & EQUIPMENT SCHEDULE
FX22	PAPER/TOWEL DISPENSER REFER TO FITTINGS, FIXTURES & EQUIPMENT SCHEDULE
SC01	STEEL COLUMN
TG01	TACTILE GROUND SURFACE
WB	WASH BASIN
WC	TOILET

TYPICAL ARTS & CRAFTS BENCH REFER A450 FOR UP TO 1000mm DETAILS FOR TEMPERATURE CONTROL. REQUIRED TO ALL ROOMS. ENSURE DEDICATE POWERPOINT IS PROVIDED AND COMPLIANT WITH RELEVANT STANDARDS.



SCALE: 1:50 @ ORIGINAL SCALE



DRAWING FILE	
Project Name	BUILDING APPROVAL
Design Project Manager	SV
Project Architect	NI
Sheet Size	A1
Project No	1506.16
Sheet No	A131
Revision	A

PROJECT FILE	
Project Name	BRINDABELLA CHRISTIAN COLLEGE
Project Address	132 BRIGALOW STREET, LYNEHAM ACT 2002
Project No	4
Revision	41
Project File	BRINDUNTABLE V2

All dimensions in millimeters. Do not make any. All dimensions and notes to be verified on site by contractor before commencing work. All work to be carried out in accordance with the relevant Australian Standards and any other relevant codes of practice.

Sch 2.2(a)(xi)

Building Approval
As issued under section 28 of the Building Act 2004

Sch 2.2(a)(ii)

REV	DATE	DESCRIPTION
A	04/02/21	FOR CONSTRUCTION

LEGEND- PROPOSED- FLOOR PLAN	
	DOOR TAG, REFER DOOR SCHEDULE FOR DETAILS
	WINDOW NO/TYPE.
	ROOM TAG, AREA
	EXISTING ELEMENTS
	PROPOSED ELEMENTS
NOTES	

AS PER FIRE ENGINEER REPORT:
 1. ALL EXTERNAL WALLS AND INTERNAL WALLS TO THE LOWER LEVEL WITH HAVE TWO LAYERS OF 13MM FYPREHEK
 2. THE BUILDING SERVICES INCLUDING STAIRS WILL BE LOCATED WITHIN A FIRE RESISTANT ENCLOSURE TO PROTECT ALL THE BEAMS. THIS WILL EXTEND TO THE SOFFIT OF THE FIRE FLOOR VERANDAH
 3. TO PROTECT ITS SUPPORTING BEAMS
 4. THE FIRST FLOOR VERANDAH WILL BE PAINTED WITH AN INTUMESCENT COATING TO ACHIEVE AN FRL OF NOT LESS THAN 60 MINUTES
 5. ALL ELECTRICAL TRAYS TO BE COMPLY WITH THE REQUIREMENTS OF TYPE B CONSTRUCTION IN REGARDS TO NON-COMBUSTIBILITY FOR CONSTRUCTION
 6. DRAWINGS FOR DETAILS: 125, 126, 129, 108, 107
 7. FEATURE CLADDING TO BE ALPOLIC ND

SCREEN ZONE (SZ)
 ZONE FOR FUTURE SCREEN OR INTERACTIVE FLAT PANEL.
 ALLOW FOR ADDITIONAL WALL JOGGINGS. PROVIDE DEDICATED POWER AND DATA CONDUITS TO THE CENTRE OF THE ZONE.

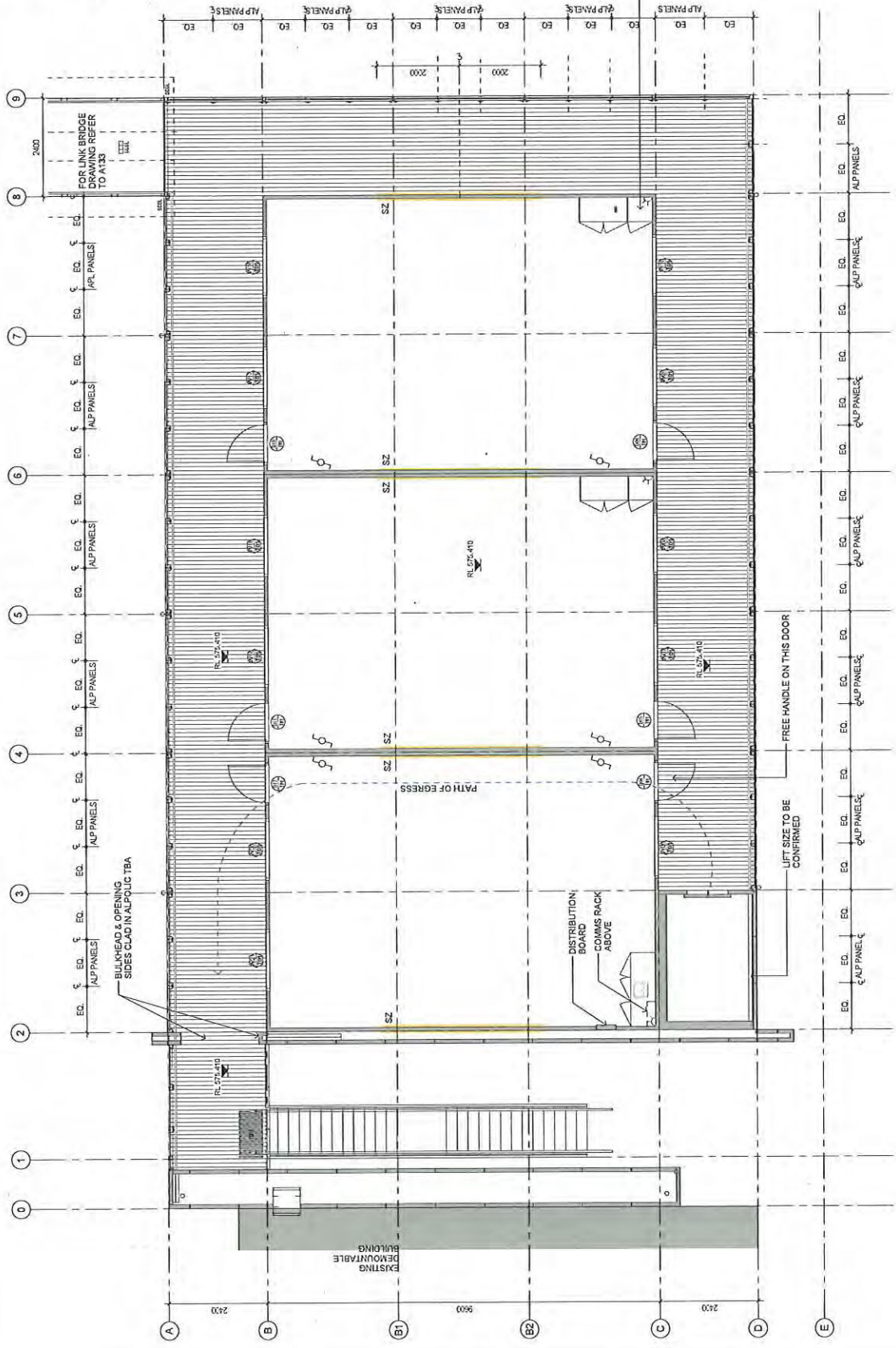
KEYNOTE	DESCRIPTION
SCOL	STEEL COLUMN
TGSI	TACTILE GROUND SURFACE INDICATOR

INTERIOR FINISHES
 FLOORVINYLAND CARPET
 SELECTION TO MATCH JUNIOR SCHOOL BUILDING.

TYPICAL ARTS & CRAFTS BENCH
 REQUIRES 230VAC SUPPLY
 TMA FOR TEMPERATURE CONTROL
 REQUIRED TO ALL ROOMS. ENSURE DEDICATE POWERPOINT IS INSTALLED IN ACCORDANCE WITH RELEVANT STANDARDS.



SCALE: 1:50 @ ORIGINAL SCALE



LEVEL ONE FLOOR PLAN	
Drawn By: SV	Project Number: N1
Scale: A1	Sheet Size: A1
Project No: 1506.16	Sheet No: A133
A	

BUILDING APPROVAL	
Project Address: 156 BRISGALOW STREET, LYNEHAM ACT 2022	Section: LYNEHAM
Block: 4	Sublot: 41

Sch 2.2(a)(xi)

Sch 2.2(a)(xi)

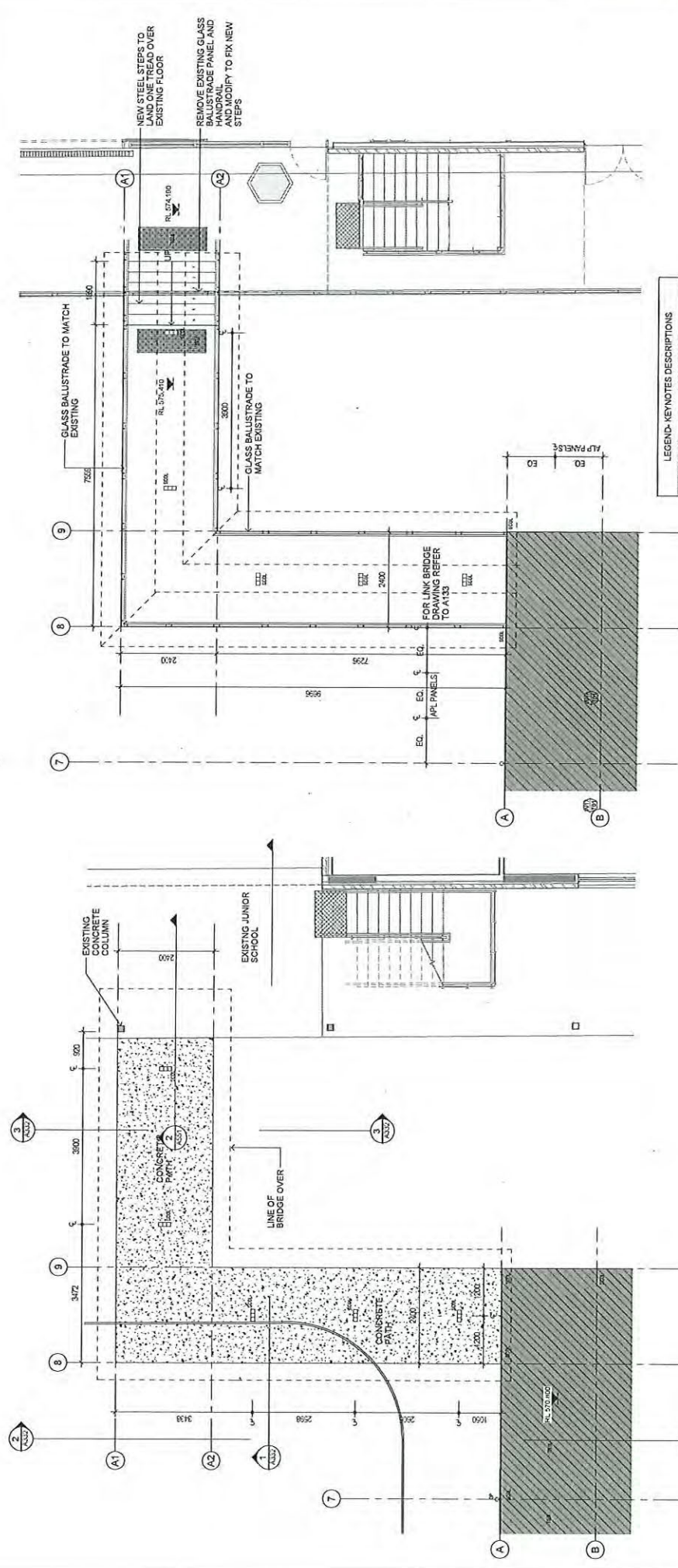
Building Approval
 is issued under section 28 of the Building Act 2004

Sch 2.2(a)(ii)

REV	DATE	DESCRIPTION
A	04/02/21	FOR CONSTRUCTION

Sch 2.2(a)(xi)

Sch 2.2(a)(ii)



LEGEND-KEYNOTES DESCRIPTIONS	
KEYNOTE	DESCRIPTION
DP	DOWNPIPE
SCOL	STEEL COLUMN
TCSI	TACTILE GROUND SURFACE INDICATOR

2 PROPOSED PLAN - L1 - LINK BRIDGE
1:50

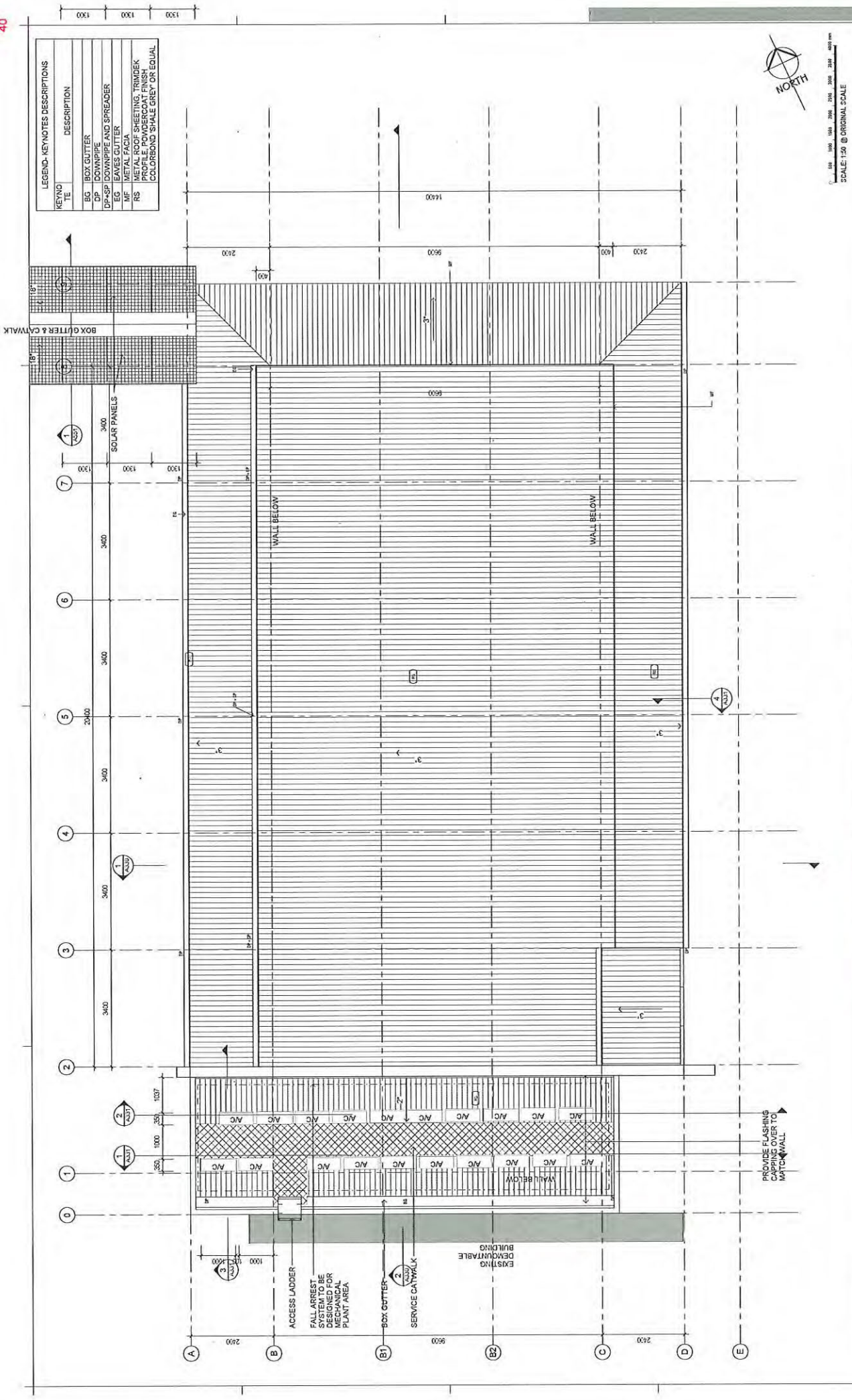
1 PROPOSED PLAN - L0 - LINK BRIDGE
1:50



SCALE: 1:50 @ ORIGINAL SCALE

NO. 4	DATE	REVISION	<p>Sch 2.2(a)(ii)</p> <p>Building Approval is issued under section 29 of the Building Act 2004</p> <p>Sch 2.2(a)(ii)</p>
	04/02/21	FOR CONSTRUCTION	
<p>Sch 2.2(a)(xi)</p> <p>INDABELLA CHRISTIAN COLLEGE</p> <p>150 BRIGALOW STREET, LYNBHAM ACT 2002</p>		<p>BUILDING APPROVAL</p> <p>150 BRIGALOW STREET, LYNBHAM ACT 2002</p>	
<p>PROJECT TITLE: LINK BRIDGE PLAN</p> <p>DESIGN PROJECT MANAGER: NI</p> <p>DESIGN ARCHITECT: SV</p> <p>SCALE: 1:50</p> <p>PROJECT NO: A1</p> <p>SHEET NO: A134</p> <p>1506.16</p> <p>DATE: 04/02/21</p> <p>BY: A</p>		<p>PROJECT ADDRESS: 150 BRIGALOW STREET, LYNBHAM ACT 2002</p> <p>CLIENT: MOUNTABLE V2</p> <p>DESIGNER: LYNBHAM</p> <p>DATE: 04/02/21</p> <p>SCALE: 1:50</p> <p>PROJECT NO: A1</p> <p>SHEET NO: A134</p> <p>1506.16</p> <p>DATE: 04/02/21</p> <p>BY: A</p>	

All dimensions in millimetres. Do not scale drawings. All dimensions and levels to be verified on site by contractor before commencing work. The contractor is responsible for ensuring that all dimensions and levels are correct. The contractor is responsible for ensuring that all dimensions and levels are correct.



LEGEND-KEYNOTES DESCRIPTIONS

KEYNOTE	DESCRIPTION
BG	BOX GUTTER
DP	DOWNPIPE
DP-SP	DOWNPIPE AND SPREADER
EG	LEAVES CUTTER
MF	METAL FACIA
RS	METAL ROOF SHEETING, RINDEK COLORBOND SHALE GREY OR EQUAL

REV	DATE	DESCRIPTION
A	04/27/21	FOR CONSTRUCTION

Project Title	BRIDABELLA CHRISTIAN COLLEGE
Client	DEMOUNTABLE V2
Project No.	1506.16
Scale	1:50
Sheet No.	A1
Drawn By	DT SE
Checked	L'NEHAM
Block	4
Sheet	41
Drawn	L'NEHAM
Assessment	A

Sch 2.2(a)(xi)

Building Approval
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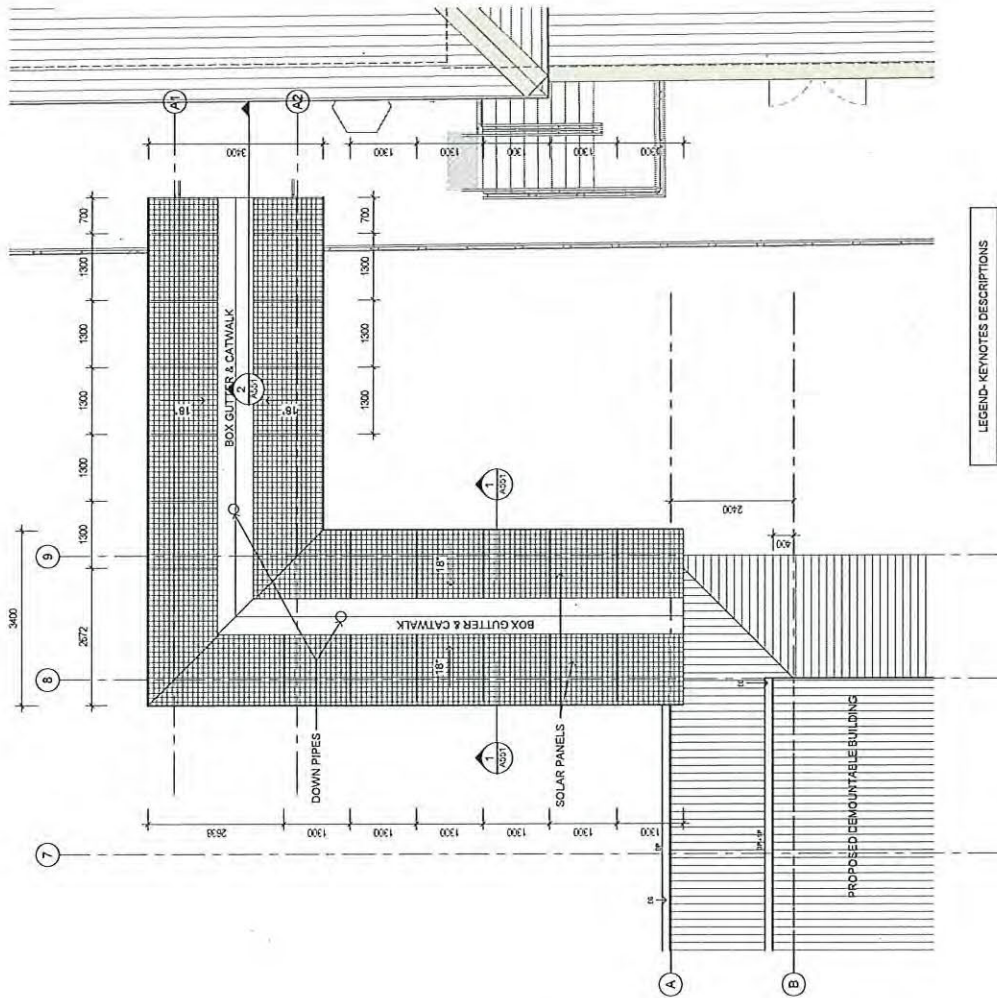
Sch 2.2(a)(ii)

Building Approval

Sch 2.2(a)(xi)

Roof Plan

Project Name: BRIDABELLA CHRISTIAN COLLEGE
 Project No.: 1506.16
 Scale: 1:50
 Sheet No.: A1
 Drawn By: DT SE
 Checked: L'NEHAM
 Drawn: L'NEHAM
 Assessment: A



LEGEND- KEYNOTES DESCRIPTIONS

KEYNO	TE	DESCRIPTION
DP		DOWNPIPE
DP&SP		DOWNPIPE AND SPREADER
EG		LEAVES GUTTER

1 PROPOSED PLAN - ROOF - LINK BRIDGE
 1:50



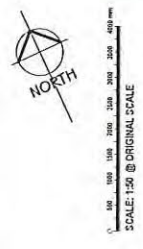
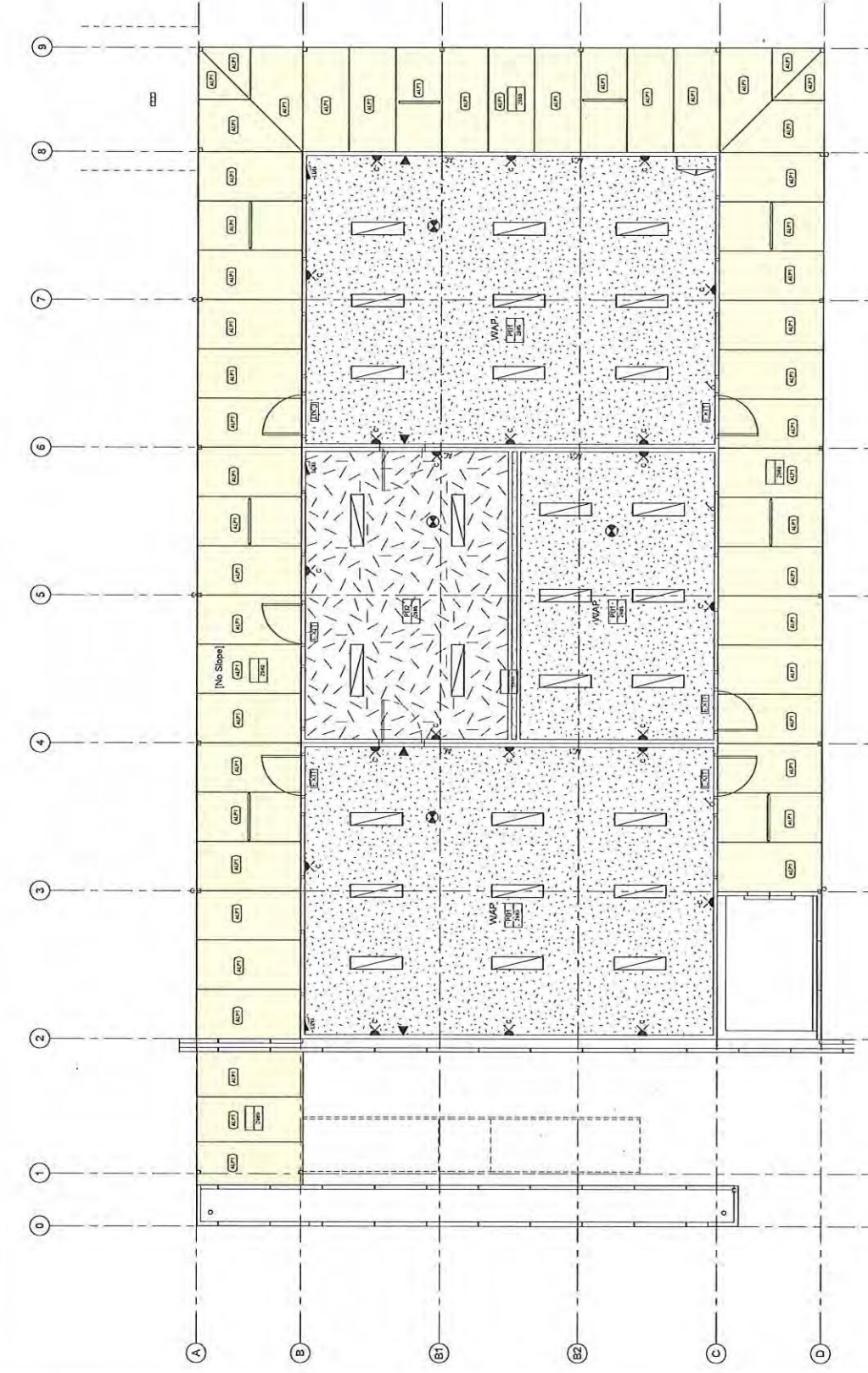
SCALE: 1:50 @ ORIGINAL SCALE

REV A	DATE 04/02/21	DESCRIPTION FOR CONSTRUCTION
Sch 2.2(a)(xi)		
BRIGABELLA CHRISTIAN COLLEGE		
Project Name: DEMOUNTABLE V2		
Project Address: 135 BRIGALOW STREET, LYNEHAM ACT 2002		
BUILDING APPROVAL		
Drawn By: SV	Project Engineer: NI	Design Writer: SV
Site ID: 1506.16	Sheet Size: A136	Drawn Date: A
Project No: 1506.16	Check No: 41	Approval: LYNEHAM
Block: 4	Sheet: 41	Member: A
<small>All dimensions in millimetres. Do not scale drawings. All dimensions and levels to be verified on site by contractor before commencing work. All work to be done in accordance with standards of specification.</small>		
55322(10)11 © Copyright		

Building Approval
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Sch 2.2(a)(ii)

LEGEND - PROPOSED - CEILING PLAN	
	CEILING TAG HEIGHTS (REFER CEILING TAG HEIGHTS SHOWN ARE RELATIVE TO THE ASSOCIATED FFL)
	ROOM NAME ROOM TAG, NUMBER
	CEILING ACCESS PANEL FINAL FINISH ON CEILING TO BE CONFIRMED
	LIGHTING INTERIOR (WET AREA)
	EXTERNAL LIGHTING
	LIGHT SWITCH
	DOUBLE GENERAL POWER OUTLET
	DATA / PHONE
	AC1 REVERSE CYCLE AIRCONDITIONER
	WAP WIRELESS ACCESS POINT
	EXIT EXIT SIGNAGE
	SMOKE ALARM & SPEAKER
NOTES	
1. PLASTERBOARD CEILING SET OUT BASED ON 100% FULL SHEETS WITH EQUAL MARGINS TO OPPOSITE SIDES OF EACH ROOM OR AREA	
2. SET OUT SURFACE MOUNTED LIGHT FIXTURES REFER CEILING TAGS JOINTS OR NEATLY	
3. SET OUT AC GRILLES CENTRED ON CEILING TILES	
4. SQUARESET CORNICE	
5. REFER FINISHES SCHEDULE FOR FINISHES AS PER FIRE ENGINEERING REPORT.	
* ALL EXTERNAL WALLS AND INTERNAL WALLS TO LEVEL WITH HAVE TWO LAYERS OF 13MM FIRECHECK	
* THE CEILING SEPARATING THE STOREYS WILL HAVE TWO LAYERS OF 13MM FIRECHECK TO THE CEILING OF THE LOWER LEVEL EXTEND TO THE CORNER OF THE FIRE BARRIER TO PROTECT ITS SUPPORTING BEAMS	
* THE EXTERNAL COLUMNS WHICH SUPPORT THE FIRST FLOOR VERANDAH WILL BE PAINTED WITH A FINISH OF NOT LESS THAN 60 MINUTES TO ACHIEVE AN FRL OF NOT LESS THAN 60 MINUTES	
* ALL BUILDING MATERIALS WILL COMPLY WITH THE REQUIREMENTS OF TYPE B CONSTRUCTION	
* REFER TO BSS FOR CONSTRUCTION DRAWINGS FOR DETAILS	
* FEATURE CLADDING TO BE ALPOLIC NC	
CEILING TYPES	
	15mm FIRECHECK PLASTERBOARD CEILING
	MOISTURE RESISTANT PLASTERBOARD CEILING
	10mm PLASTERBOARD, RAKED
	COLORBOND PANEL RIB 0.35mm COLOUR REFER SCHEDULE FOR COLOUR
	MINIORB CEILING, TBC
	ALPOLIC - FIRE RATE ALUMINIUM COMPOSITE - WHITE

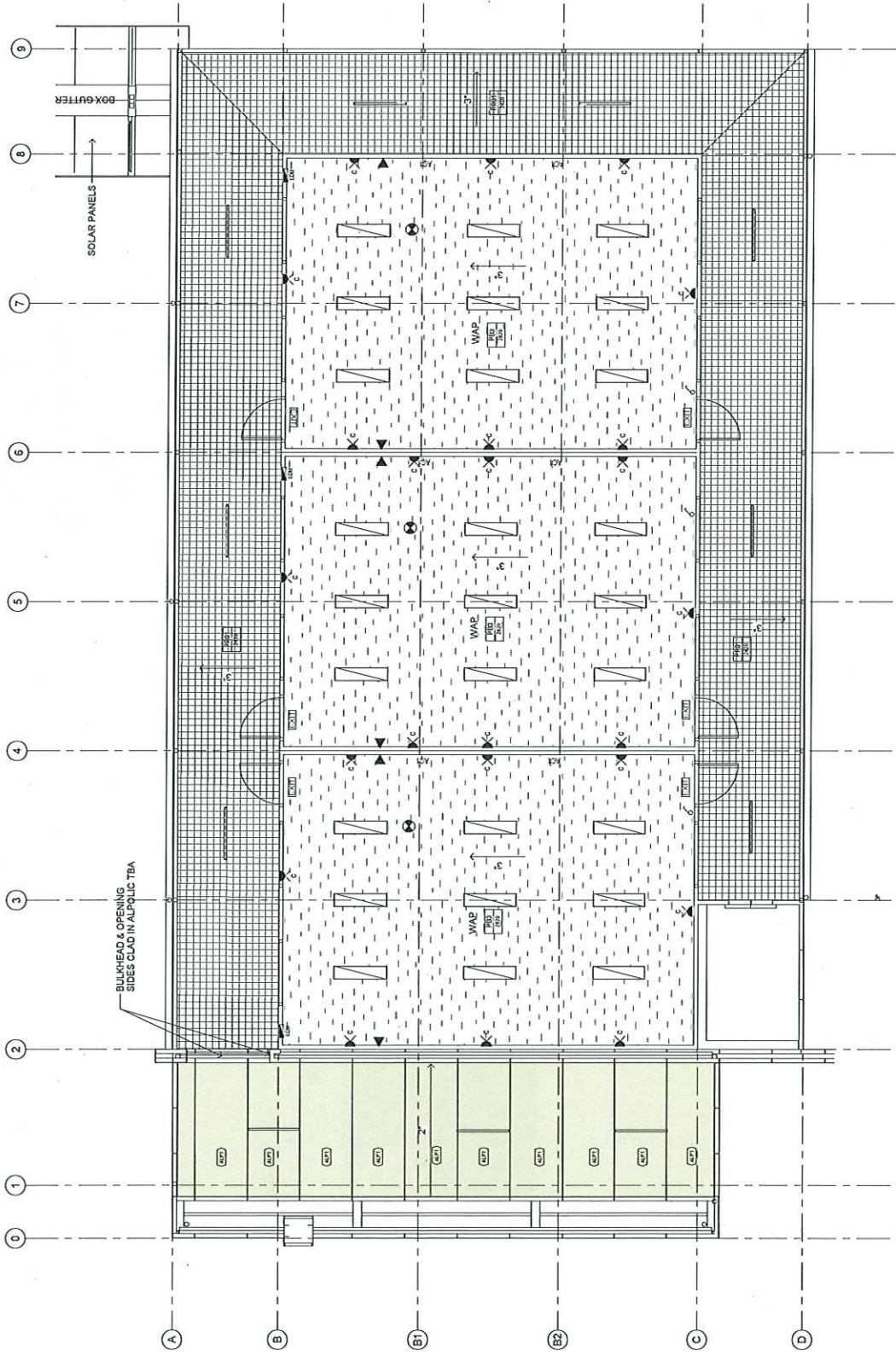


REV A	DATE 04/23/21	DESCRIPTION FOR CONSTRUCTION	<p>Sch 2.2(a)(i)</p> <p>Building Approval As issued under section 23 of the Building Act 2004</p> <p>Sch 2.2(a)(ii)</p>	<p>Sch 2.2(a)(x)</p> <p>Project Title DEMOUNTABLE V2</p> <p>Project Address 130 BERGLAW STREET, LYNCHAM ACT 2022</p> <p>Block 4</p> <p>Section 41</p> <p>Drawn LYNCHAM</p>	<p>Drawn By A1</p> <p>Checked By A140</p> <p>Approved By A</p>
	<p>Project Name BRUNDELLA CHRISTIAN COLLEGE</p> <p>Project Title DEMOUNTABLE V2</p> <p>Project Address 130 BERGLAW STREET, LYNCHAM ACT 2022</p> <p>Block 4</p> <p>Section 41</p> <p>Drawn LYNCHAM</p>				

Approved by: SV
Checked by: SV
Scale: As indicated
Project No: 1506.16
Drawing No: A140
Approved: A

Project Name: BRUNDELLA CHRISTIAN COLLEGE
Project Title: DEMOUNTABLE V2
Project Address: 130 BERGLAW STREET, LYNCHAM ACT 2022
Block: 4
Section: 41
Drawn: LYNCHAM

All dimensions in millimetres. Do not scale drawings. All dimensions are approximate. Dimensions are subject to change without notice. Work is to be prepared in accordance with the Building Act 2004. Work must be made in consultation with the relevant authority.



LEGEND- PROPOSED- CEILING PLAN	
[Symbol]	CEILING TAG. REFER CEILING DESCRIPTION BELOW FOR DETAILS. CEILING TAG HEIGHTS SHOWN ARE RELATIVE TO THE ASSOCIATED FFL
[Symbol]	ROOM TAG. NUMBER
[Symbol]	CEILING ACCESS PANEL. FINAL LOCATION ON CEILING TO BE CONFIRMED
[Symbol]	LIGHTING INTERIOR
[Symbol]	LIGHTING INTERIOR (WET AREA)
[Symbol]	EXTERNAL LIGHTING
[Symbol]	LIGHT SWITCH
[Symbol]	DOUBLE GENERAL POWER OUTLET
[Symbol]	DATA // PHONE
[Symbol]	REVERSE CYCLE AIRCONDITIONER
[Symbol]	WAP
[Symbol]	WIRELESS ACCESS POINT
[Symbol]	EXIT SIGNAGE
[Symbol]	SMOKE ALARM & SPEAKER

NOTES	
1.	PLASTERBOARD CEILING SETOUT BASED ON 100% FULL SHEETS WITH EQUAL MARGINS TO OPPOSITE SIDES OF EACH ROOM OR AREA
2.	WAP LOCATIONS SHOWN FOR LIGHT FIXTURES COVER CEILING TILES MONITORS OR LIGHT FIXTURES BETWEEN PERFORATED SQUARES
3.	SET OUT AC GRILLES CENTERED ON CEILING
4.	REBARSET CORNICE
5.	REFER FINISHES SCHEDULE FOR FINISHES

AS PER FIRE ENGINEERING REPORT:
 • ALL EXTERIOR WALLS TO THE LOWER LEVEL WITH TWO LAYERS OF 13MM FYRCHCK
 • THE CEILING SEPARATING THE STOREYS WILL BE CONSTRUCTED WITH TWO LAYERS OF 13MM FYRCHCK TO PROTECT ALL THE BEAMS THIS INCLUDES TO THE SOFFIT OF THE FIRE FLOOR VERANDAH TO PROTECT ITS SUPPORTING BEAMS
 • FIRE FLOOR VERANDAH TO BE CONSTRUCTED WITH AN INTUMESCENT COATING TO ACHIEVE AN FRL OF NOT LESS THAN 60 MINUTES
 • ALL BUILDING MATERIALS WILL COMPLY WITH IN REGARDS TO NON-COMBUSTIBILITY
 • REFER TO MBS FOR CONSTRUCTION DRAWINGS FOR DETAILS
 • FEATURE CLADDINGS TO BE ALPOLIC NC

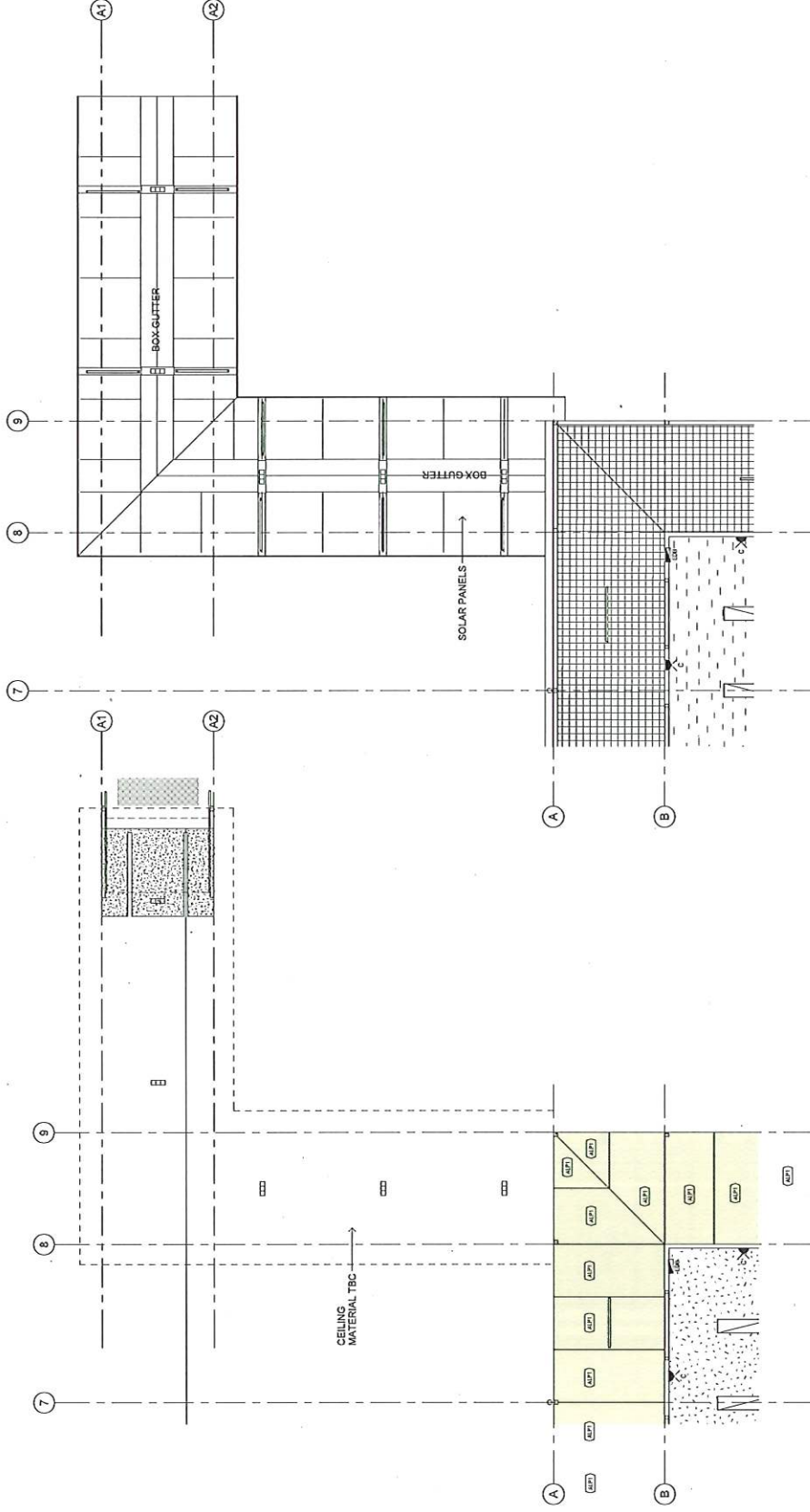
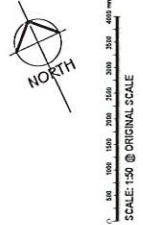
CEILING TYPES	
PB1	2x16mm FYRCHCK PLASTERBOARD CEILING
PB2	MOISTURE RESISTANT PLASTERBOARD CEILING
PB3	10mm PLASTERBOARD, RAKED
PRM	COLORBOND PANEL RIB 0.350MM LINING - REFER SCHEDULE FOR COLOUR
MVO	MINORB CEILING, TBC
ALP	ALPOLIC - FIRE RATE ALUMINIUM COMPOSITE - WHITE



SCALE: 1:50 @ ORIGINAL SCALE

REV A	DATE 14/02/21	DESCRIPTION FOR CONSTRUCTION	<p>Building Approval is issued under section 23 of the Building Act 2004</p> <p>Sch 2.2(a)(ii)</p>	<p>Sch 2.2(a)(xi)</p>	<p>Client: BRUNDELLA CHRISTIAN COLLEGE Project Title: DEMOUNTABLE V2 All dimensions in millimetres. Do not scale. Showings of dimensions and levels to be verified on site by contractor before commencing work or preparation of shop drawings. Where possible, drawings must be made in accordance with AS/NZS 1910:2016.</p>	<p>Project Status: BUILDING APPROVAL Project Address: 136 BRIGALOW STREET, LYNEHAM ACT 2022 Drawn: LYNEHAM Section: 41 Block: 4</p>	<p>Design's Title: REFLECTED CEILING PLAN - LEVEL 1 Design Project Number: SV Sheet Size: A1 Sheet No: 1506.16 Assessment: A</p>
	<p>Project Architect: SV Design Number: SV Drawn: SV Checked: AT Approved: A</p>						

LEGEND- PROPOSED- CEILING PLAN	
	CEILING TAG REFER CEILING DESCRIPTION BELOW FOR DETAILS. CEILING TAG HEIGHTS SHOWN ARE RELATIVE TO THE ASSOCIATED FFL
	Room name: 150 m2
	CEILING ACCESS PANEL. FINAL LOCATION ON CEILING TO BE CONFIRMED
	LIGHTING INTERIOR
	LIGHTING INTERIOR (WET AREA)
	EXTERNAL LIGHTING
	LIGHT SWITCH
	DOUBLE GENERAL POWER OUTLET
	DATA / PHONE
	AC1
	WAP
	WIRELESS ACCESS POINT
	EXIT SIGNAGE
	SMOKE ALARM & SPEAKER
NOTES	
1. PLASTERBOARD CEILING SET OUT BASED ON 100% FULL SHEETS WITH EQUAL MARGINS TO OPPOSITE SIDES OF EACH ROOM OR AREA	
2. SET OUT SURFACE MOUNTED LIGHT FIXTURES TO BE SPACED TO FIT FULL SHEETS OF PLASTERBOARD BETWEEN PERFORATED SQUARES	
3. SET OUT AC GRILLES CENTERED ON CEILING TILES	
4. REFER FINISHES SCHEDULE FOR FINISHES	
5. REFER FINISHES SCHEDULE FOR FINISHES	
AS PER FIRE ENGINEERING REPORT:	
- ALL EXTERNAL WALLS AND INTERNAL WALLS TO BE FINISHED WITH TWO LAYERS OF 13MM PYRECHECK	
- THE CEILING SEPARATING THE STOREYS WILL HAVE TWO LAYERS OF 13MM PYRECHECK TO PROTECT THE STOREY BELOW	
- THE EXTERNAL COLUMNS WHICH SUPPORT THE FIRE FLOOR VERANDAH ARE TO BE PROTECTED WITH ALUMINIUM CLADDING TO ACHIEVE AN FRL OF NOT LESS THAN 60 MINUTES	
- ALL BUILDING MATERIALS WILL COMPLY WITH THE REQUIREMENTS OF TYPE B CONSTRUCTION	
- REFER TO MBS FOR CONSTRUCTION DRAWINGS FOR DETAILS	
- FEATURE CLADDING TO BE ALPOLIC NC	
CEILING TYPES	
	2x16mm PYRECHECK PLASTERBOARD CEILING
	MOISTURE RESISTANT PLASTERBOARD CEILING
	10mm PLASTERBOARD, RAKED
	COLOR BOUND PANEL RIB & 96mm UNINS - REFER SCHEDULE FOR COLOUR
	MINIORB CEILING, TBC
	ALPOLIC FIRE RATE ALUMINIUM COMPOSITE - WHITE



2. PROPOSED CEILING PLAN - L1
1:50

1. PROPOSED CEILING PLAN - L0 - LINK BRIDGE
1:50

Project Name:	BRIDGE
Project Manager:	SV
Scale:	A1
Project No.:	1506.16
Drawn By:	A142
Approved:	A

Project Name:	BRIDGE
Project Manager:	SV
Scale:	A1
Project No.:	1506.16
Drawn By:	A142
Approved:	A

Project Name:	BRIDGE
Project Manager:	SV
Scale:	A1
Project No.:	1506.16
Drawn By:	A142
Approved:	A

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Project Manager:	SV
Scale:	A1
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Scale:	A1
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Approved:	A

Project Name:	BRIDGE
Project Manager:	SV
Scale:	A1
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Drawn By:	A142
Approved:	A

Project Name:	BRIDGE
Project Manager:	SV
Scale:	A1
Project No.:	1506.16
Drawn By:	A142
Approved:	A

Project Name:	BRIDGE
Project Manager:	SV
Scale:	A1
Project No.:	1506.16
Drawn By:	A142
Approved:	A

Building Approval
Is issued under section 26 of the Building Act 2004

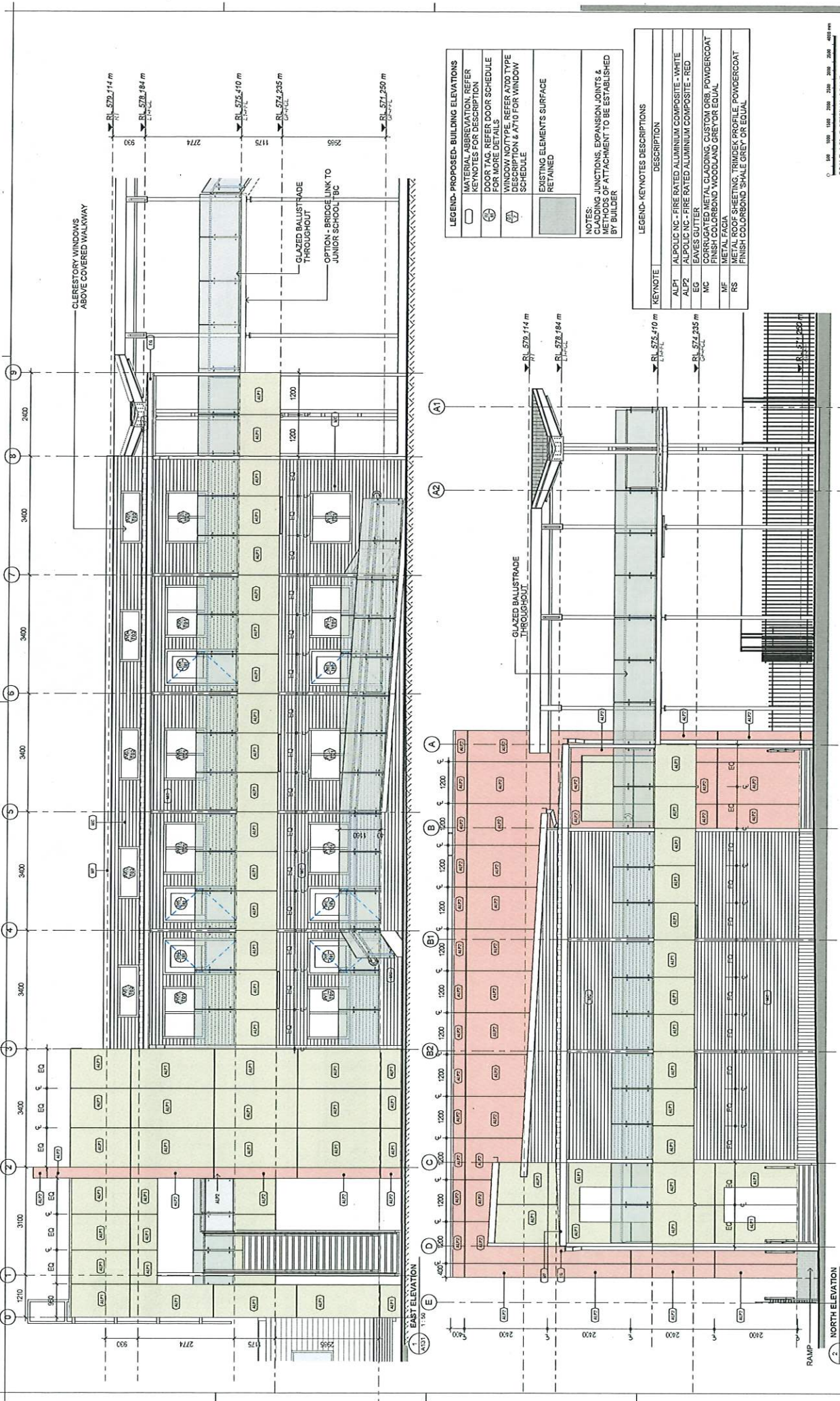
Sch 2.2(a)(ii)

Sch 2.2(a)(xi)

BRINDABELLA CHRISTIAN COLLEGE
DISCOUNTABLE V2

103 BRIGALOW STREET, LYNEHAM ACT 2022

REFLECTED CEILING PLAN_LINK



LEGEND - PROPOSED - BUILDING ELEVATIONS

○	MATERIAL ABBREVIATION, REFER KEYNOTES FOR DESCRIPTION
⊕	DOOR TAG, REFER DOOR SCHEDULE FOR MORE DETAILS
⊕	WINDOW NOTYPE, REFER A700 TYPE DESCRIPTION & A710 FOR WINDOW SCHEDULE
■	EXISTING ELEMENTS SURFACE RETAINED

NOTES
 CLADDING JUNCTIONS, EXPANSION JOINTS, & METHODS OF ATTACHMENT TO BE ESTABLISHED BY BUILDER

LEGEND - KEYNOTES DESCRIPTIONS

KEYNOTE	DESCRIPTION
ALP1	ALPOLIC NC - FIRE RATED ALUMINIUM COMPOSITE - WHITE
ALP2	ALPOLIC NC - FIRE RATED ALUMINIUM COMPOSITE - RED
EG	EVAS GUTTER
MC	METAL CLADDING, CUSTOM GREY POWDERCOAT FINISH COLORBOND WOODLAND GREY OR EQUAL
MF	METAL FAGIA
RS	METAL ROOF SHEETING, TRIMDEK PROFILE, POWDERCOAT FINISH COLORBOND SHALE GREY OR EQUAL

SCALE: 1:50 @ ORIGINAL SCALE

Sch 2.2(a)(xi)

BRINDABELLA CHRISTIAN COLLEGE

DEMOUNTABLE V2

Building Approval
 Is issued under section 28 of the Building Act 2004

Sch 2.2(a)(ii)

ELEVATIONS - SHEET 1

Project Title: BRINDABELLA CHRISTIAN COLLEGE
 Design Project Manager: SV
 Design Author: SV
 Scale: 1:50
 Sheet Size: A1
 Date: 4/1/2024
 Assessment: A

Project Address: 130 BRIGALOW STREET, LYNEHAM ACT 2002
 Block: 4
 Section: 41
 Suburb: LYNEHAM

Project No: 1506.16
 Sheet No: A230

DATE: 04/01/24
 DESCRIPTION: FOR CONSTRUCTION



LEGEND-PROPOSED-BUILDING ELEVATIONS

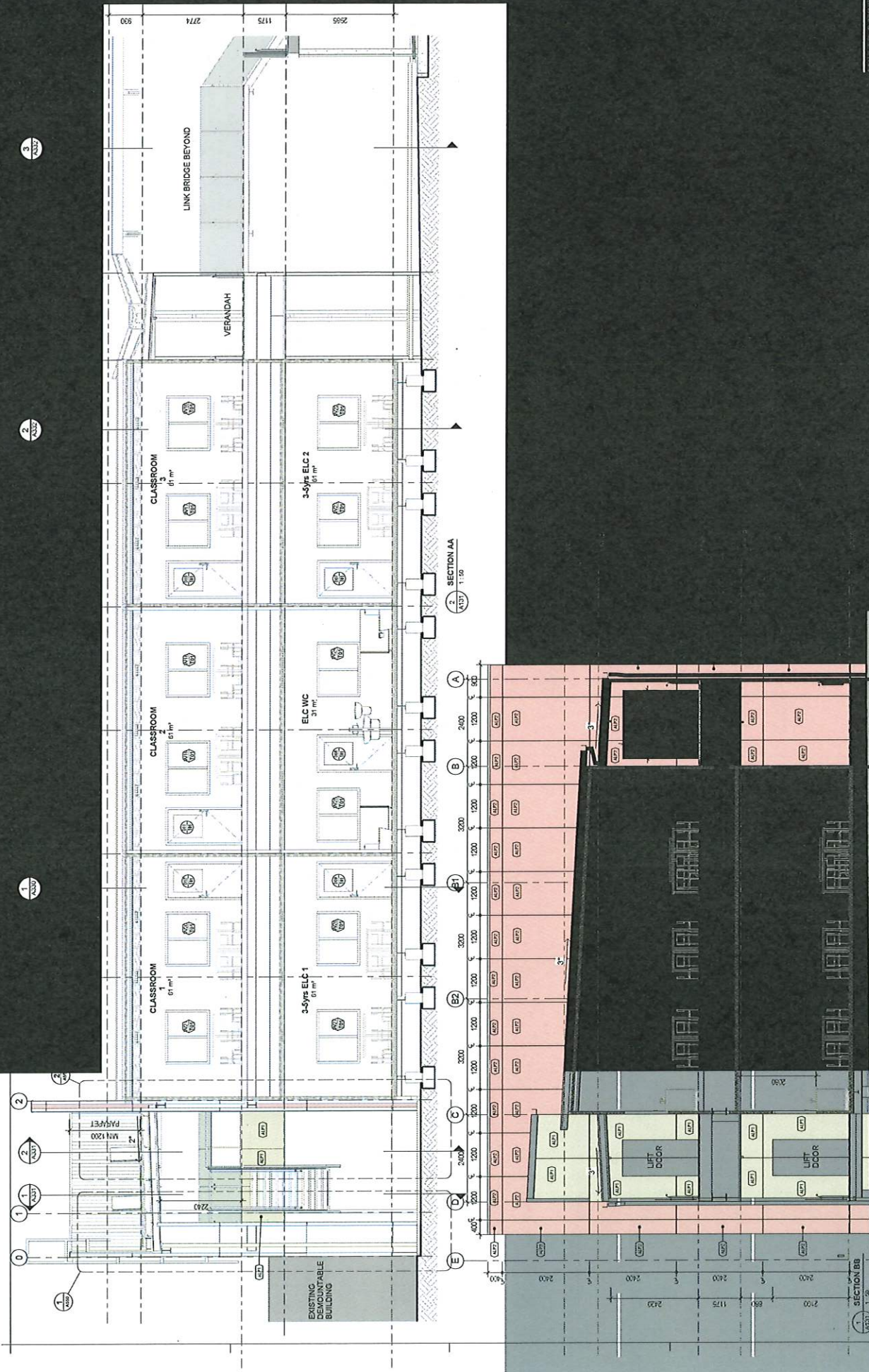
	MATERIAL ABBREVIATION. REFER KEYNOTES FOR DESCRIPTION
	DOOR TAG. REFER DOOR SCHEDULE FOR MORE DETAILS
	WINDOW NO/TYP. REFER A700 TYPE DESCRIPTION & A710 FOR WINDOW SCHEDULE
	EXISTING ELEMENTS SURFACE RETAINED

NOTES:
 CLADDING, JOINTS, EXPANSION JOINTS & METHODS OF ATTACHMENT TO BE ESTABLISHED BY BUILDER

LEGEND-KEYNOTES DESCRIPTIONS

KEYNO	TE	DESCRIPTION
ALP1		ALPOLIC NC - FIRE RATED ALUMINIUM COMPOSITE - WHITE
ALP2		ALPOLIC NC - FIRE RATED ALUMINIUM COMPOSITE - RED
EG		LEAVES GUTTER
MC		CORRUGATED METAL CLADDING, CUSTOM ORB, POWDERCOAT FINISH COLOREBOND WOODLAND GREY/OR EQUAL
MF		METAL FACIA
PCT		POWDERCOAT FINISH TO ALUMINIUM SURFACE, POLYURETHANE DURATEC ETERNITY CHAIN PEARL
RS		METAL ROOF SHEETING, TRIMDEK PROFILE, POWDERCOAT FINISH COLOREBOND SHALE GREY/OR EQUAL

REV A	DATE 04.02.21	DESCRIPTION FOR CONSTRUCTION	<p>Building Approval Is Issued under section 226 of the Building Act 2004</p> <p>Sch 2.2(a)(ii)</p>	<p>Sch 2.2(a)(ii)</p>	<p>BRUNDELLA CHRISTIAN COLLEGE</p> <p>DEPARTMENT V2</p>	<p>BUILDING APPROVAL</p> <p>103 BRUNDELLA STREET, LYNEHAM ACT 2002</p>	Project Manager Design Writer Drawn Check Date Issued Date Recd Project No. Sheet No.	Design Drawn Assessment A A231 A
	Title ELEVATIONS - SHEET 2	Scale SCALE: 1:50 @ ORIGINAL SCALE						



Sch 2.2(a)(xi)

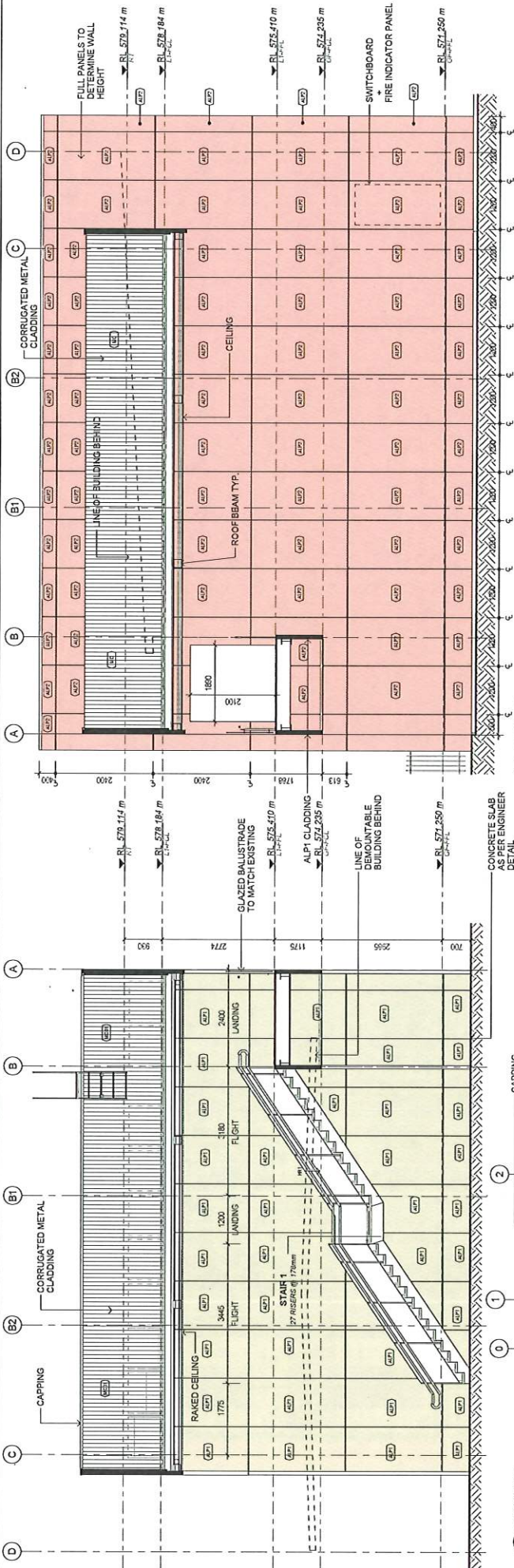
Sch 2.2(a)(ii)

Building Approval
is issued under authority of the Building Act 2004

REV	DATE	DESCRIPTION
A	14/02/21	FOR DETERMINATION

STATUTORY REQUIREMENTS	
Structural	Compliance
Fire	Compliance
Electrical	Compliance
Plumbing	Compliance
Mechanical	Compliance
Health	Compliance
Accessibility	Compliance
Energy	Compliance
Other	Compliance

This document is prepared by the architect on behalf of the client. It is the client's responsibility to ensure that the design meets all applicable statutory requirements and that the building is constructed in accordance with the approved plans. The architect does not warrant the accuracy or completeness of the information provided.



KEYNOTE	DESCRIPTION
ALP1	ALPOLIC NC - FIRE RATED ALUMINIUM COMPOSITE - WHITE
ALP2	ALPOLIC NC - FIRE RATED ALUMINIUM COMPOSITE - RED
MC	CORRUGATED METAL CLADDING, CUSTOM ORB, POWDERCOAT FINISH COLORBOND WOODLAND GREY OR EQUAL
MC21	EQUAL

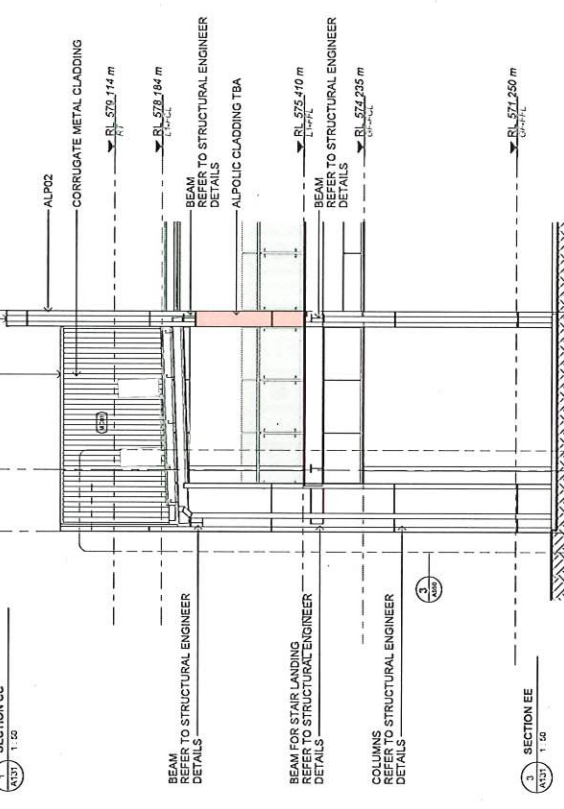
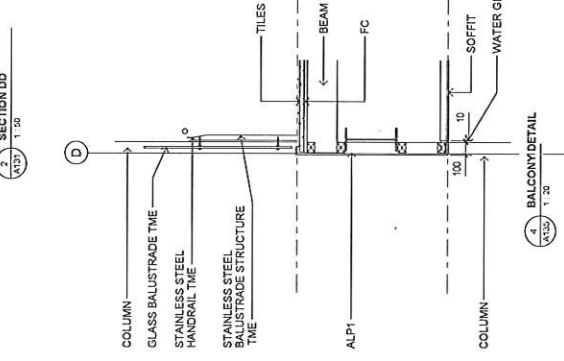
INSULATION:

- GROUND LEVEL UNDER FLOOR - R2.5 KOOL THERM RIGID BOARD 40mm
- FIRST FLOOR UNDER FLOOR - 100mm POLYSTYRENE INSULATION BATTIS
- EXTERNAL WALLS - R2.5 GLASSWOL BATTIS & THERMAL BREAK SARKING (AIR CELL INSULBREAK 65)
- CEILING (GROUND AND FIRST FLOOR - R2.5 GLASSWOL BATTIS SUPPORTED BY REFER TO MBS DRAWINGS: 125, 126, 127, 128, 129, 130, 131
- ROOF - R1.3 ANTICON BLAUNE

INDICATIVE STRUCTURAL PROPOSAL ONLY
REFER TO STRUCTURAL ENGINEER FOR SPECIFICATIONS AND DETAILS

AS PER FIRE ENGINEER REPORT:

- ALL EXTERNAL WALLS AND INTERNAL WALLS TO THE LOWER LEVEL WITH HAVE TWO LAYERS OF 13MM PYRECHECK
- ALL EXTERNAL WALLS AND INTERNAL WALLS WILL HAVE TWO LAYERS OF 13MM PYRECHECK TO PROTECT ALL THE BEAMS. THIS WILL EXTEND TO THE SOFFIT OF THE FIRE FLOOR VERANDAH TO PROTECT ITS SUPPORTING BEAMS
- THE EXTERNAL COLUMNS WHICH SUPPORT THE FIRST FLOOR VERANDAH WILL HAVE AN INTUMESCENT COATING, TO ACHIEVE AN FRL OF NOT LESS THAN 60 MINUTES
- ALL BUILDING MATERIALS WILL COMPLY WITH THE REQUIREMENTS OF TYPE B CONSTRUCTION IN REGARDS TO NON-COMBUSTIBILITY
- REFER TO MBS FOR CONSTRUCTION DRAWINGS FOR DETAILS: 125, 126, 129,
- FEATURE CLADDING TO BE ALPOLIC NC



Project Name: **BRINDABELLA CHRISTIAN COLLEGE**

Client: **DEMOUNTABLE V2**

Project No: **136 BRIGALOW STREET, LYNEHAM ACT 2022**

Scale: **1:50 @ ORIGINAL SCALE**

Project No: **1506.16**

Project Title: **A331**

Drawn: **LYNEHAM**

Check: **41**

Scale: **41**

Sheet No: **A1**

Sheet Size: **A3**

Design Writer: **SA**

Drawn: **SA**

Approved: **A**

Sch 2.2(a)(xi)

Building Approval

Is issued under section 28 of the Building Act 2004

Sch 2.2(a)(ii)

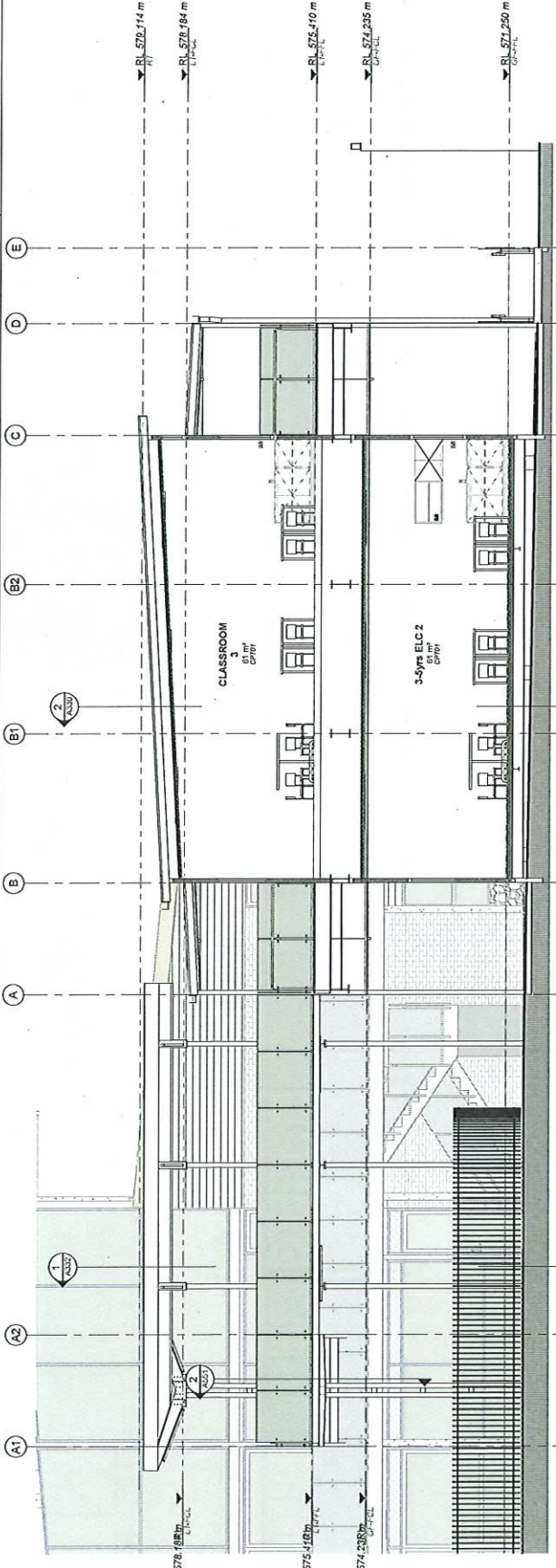
REV: **4**

DATE: **04/03/21**

DESCRIPTION: **FOR CONSTRUCTION**

SECTION: **CC**

SCALE: **1:50**



INSULATION:

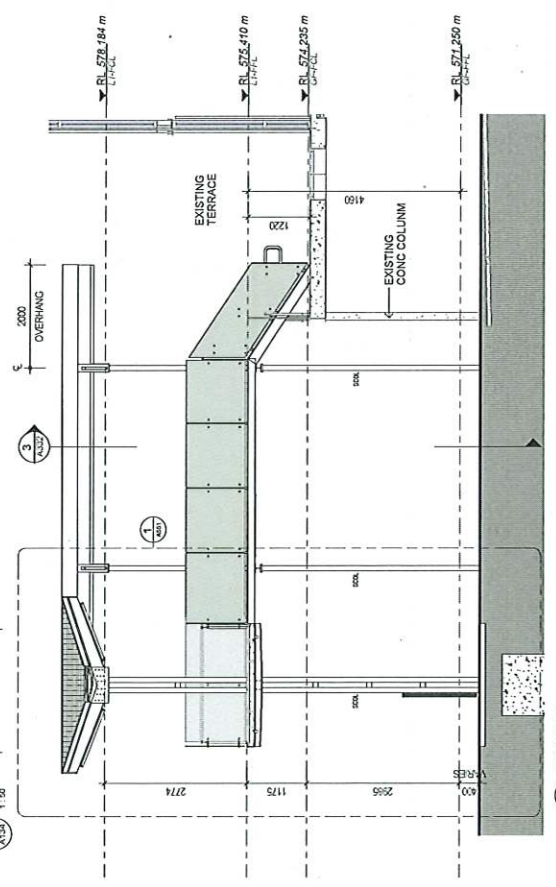
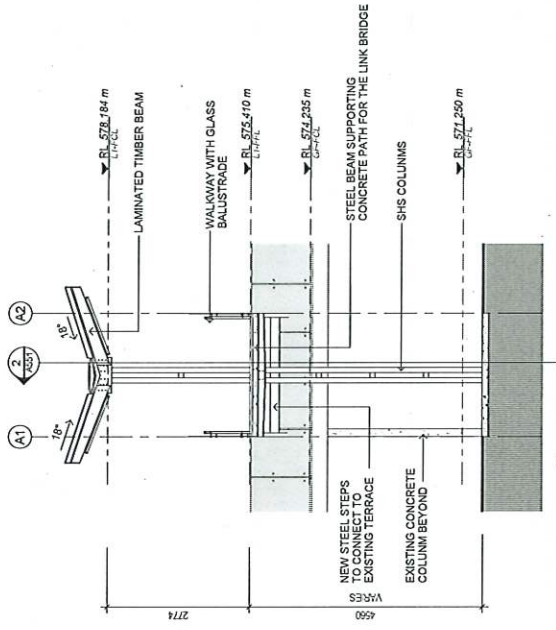
- GROUND LEVEL UNDERFLOOR - R2.5 KOOL THERM RIGID BOARD 40mm
- FIRST FLOOR UNDERFLOOR - NIL
- INTERNAL WALLS - R2.7 CLASSWOOL BATTS
- EXTERNAL WALLS - R2.5 CLASSWOOL BATTS
- CEILING (GROUND AND FIRST FLOOR) - R2.5 CLASSWOOL BATTS SUPPORTED BY ZINCALUME PANELS 0.35
- ROOF - R1.2 ANITICON BLANKIE

REFER TO MBS DRAWINGS: 125, 126, 127, 128, 129, 130, 131

INDICATIVE STRUCTURAL PROPOSAL ONLY
REFER TO STRUCTURAL ENGINEER FOR SPECIFICATIONS AND DETAILS

AS PER FIRE ENGINEER REPORT:

- ALL EXTERNAL WALLS TO THE LOWER LEVEL WITH TWO LAYERS OF 13MM PYRECHECK
- THE CEILING SEPARATING THE STOREYS WILL HAVE TWO LAYERS OF 13MM PYRECHECK TO PROTECT ALL THE BEAMS. THIS WILL EXTEND TO THE SOFFIT OF THE BEAMS.
- THE EXTERNAL WALLS WHICH SUPPORT THE BRICKING BEAMS WILL BE PAINTED WITH AN INTUMESCENT COATING, TO ACHIEVE AN FRL OF NOT LESS THAN 60 MINUTES.
- ALL EXISTING STEEL COLUMN TO COMPLY WITH THE REQUIREMENTS OF TYPE B CONSTRUCTION IN RECCORD TO THE MBS.
- REFER TO MBS FOR CONSTRUCTION DRAWINGS FOR DETAILS: 125, 128, 129, 106, 107
- FEATURE CLADDING TO BE ALPOLIC NC



SCALE: 1:50 @ ORIGINAL SCALE

REV	DATE	DESCRIPTION
A	04/21	FOR CONSTRUCTION

Sch 2.2(a)(i)

DEMOUNTABLE V2

All dimensions in millimetres. Do not scale. Always refer drawings and finish to be verified on site by contractor before commencing work or preparation of shop drawings. Where possible, drawings will be based on manufacturer's standard or equivalent.

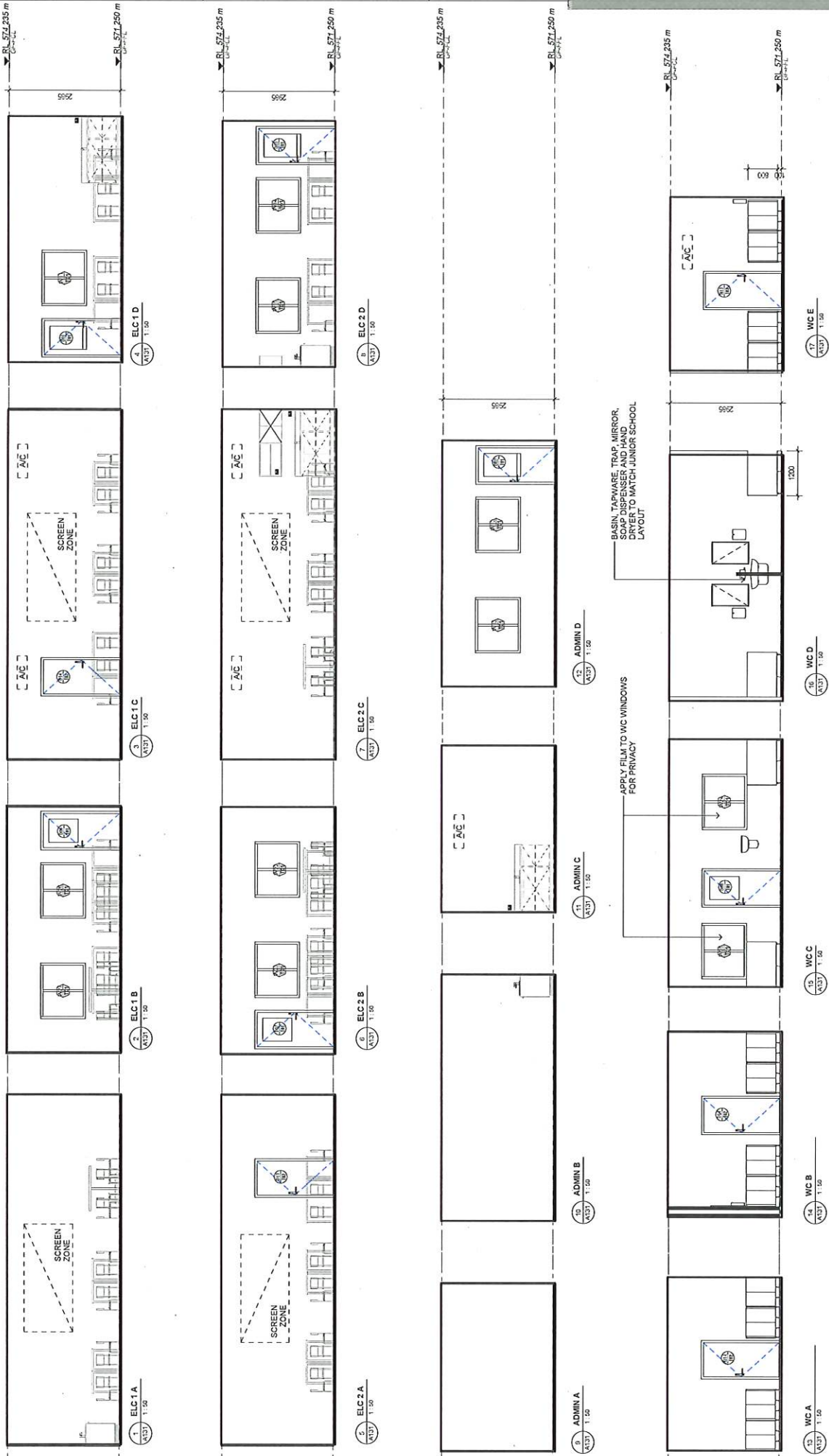
Sch 2.2(a)(ii)

Building Approval

Is issued under section 28 of the Building Act 2004

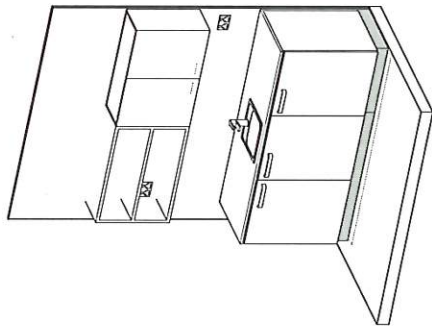
Project Name:	BRINDABELLA CHRISTIAN COLLEGE
Project Address:	130 BRINDALOW STREET, LYNEDHAM ACT 2002
Design Project Manager:	SV
Design Author:	SV
Drawn:	SV
Checked:	SV
Scale:	1:50
Sheet Size:	A1
Project No.:	1506.16
Sheet No.:	A332
Revision:	A

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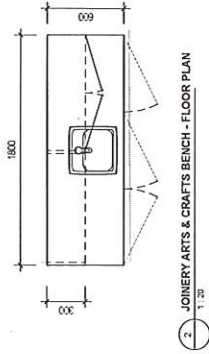


REV	DATE	DESCRIPTION
A	04/21	FOR CONSTRUCTION

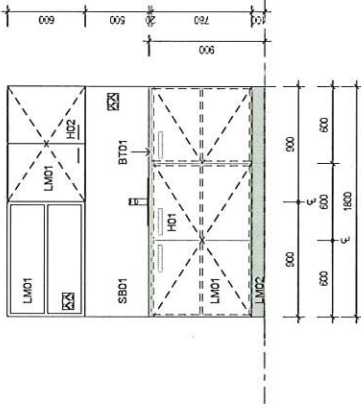
Building Approval <small>Is issued under section 28 of the Building Act 2004</small>		Sch 2.2(a)(ii)	
Sch 2.2(a)(xi)			
Project Name:	BRINDABELLA CHRISTIAN COLLEGE	Project Title:	DEMOUNTABLE V2
Project Address:	136 BRIGALOW STREET, LYNEHAM ACT 2022	Project Number:	1506.16
Project Manager:	SV	Project Architect:	NI
Scale:	1:50	Sheet Size:	A1
Project File:	1506.16	Drawn:	LYNEHAM
Block:	4	Section:	41
Approved:	A	Authorised:	A



1 JOINERY ARTS & CRAFTS BENCH - TYPICAL



2 JOINERY ARTS & CRAFTS BENCH - FLOOR PLAN



3 JOINERY ARTS & CRAFTS BENCH - ELEVATION

TW/ FOR TEMPERATURE CONTROL
 REQUIRED TO ALL ROOMS. ENSURE
 DEDICATE POWERPOINT IS PROVIDED
 AND COMPLIANT WITH RELEVANT
 STANDARDS.

ALL JOINERY FINISHING MATERIALS
 TO MATCH EXISTING (JUNIOR SCHOOL)

ALL LOOSE FURNITURE
 TO BE PROVIDED BY OWNER.

Building Approval
 Is issued under section 25 of the Building Act 2004

Sch 2.2(a)(ii)

Sch 2.2(a)(xi)

Project Name:
 RINDABELLA CHRISTIAN COLLEGE

Project Address:
 136 BRIGALOW STREET, LYNEHAM ACT 2032

Block:
 4

Section:
 41

Division:
 LYNEHAM

Project Title:
 JOINERY PLAN

Client/Project Manager:
 NI

Scale:
 1:20

Sheet No:
 A1

Project No:
 1506.16

Revision:
 A450

REV	DATE	DESCRIPTION	BY	CHKD
A		FOR CONSTRUCTION		

REV	DATE	DESCRIPTION	BY	CHKD
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A		FOR CONSTRUCTION		

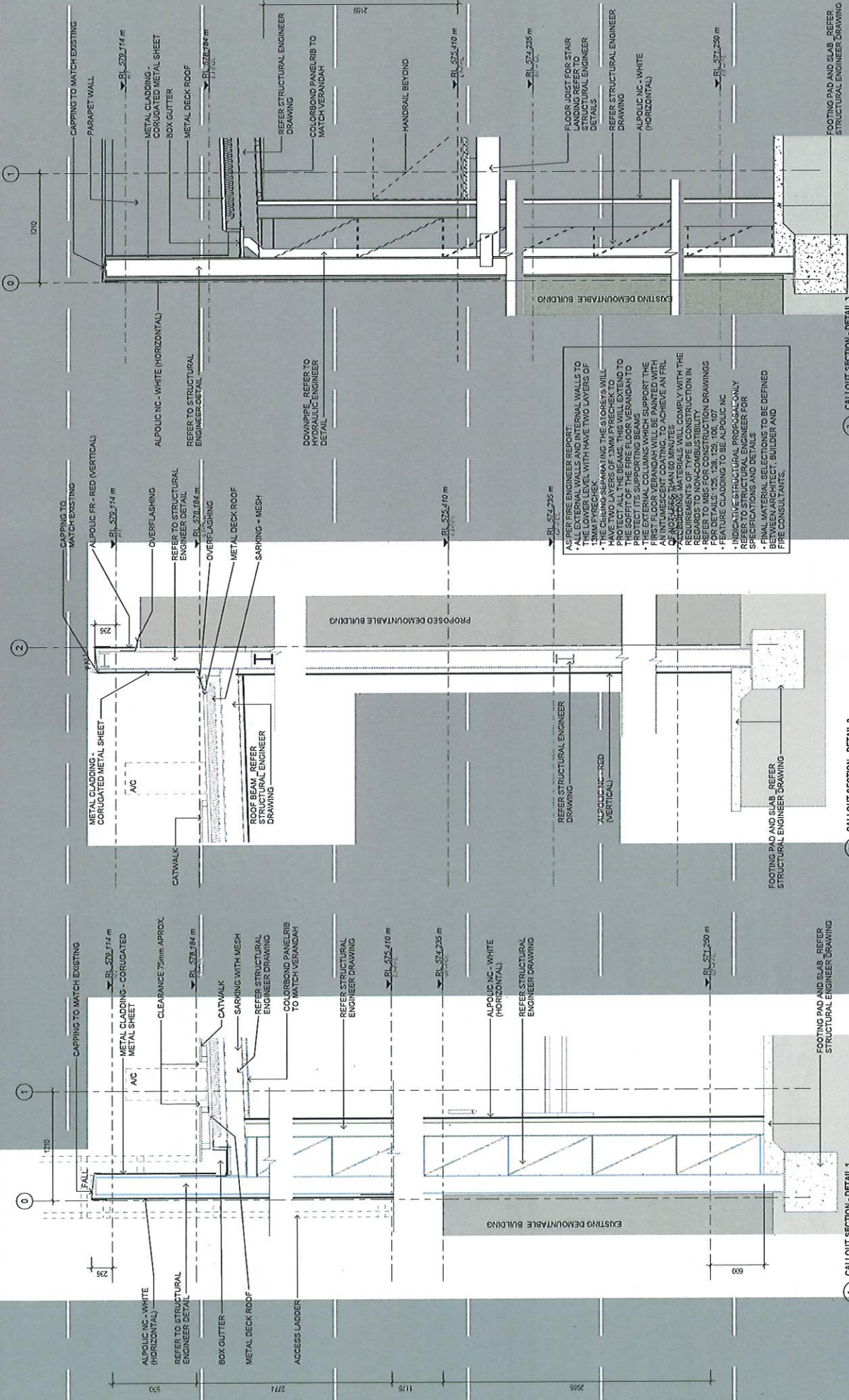
REV	DATE	DESCRIPTION	BY	CHKD
A		FOR CONSTRUCTION		

REV	DATE	DESCRIPTION	BY	CHKD
A		FOR CONSTRUCTION		

REV	DATE	DESCRIPTION	BY	CHKD
A		FOR CONSTRUCTION		

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REV	DATE	
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REV	DATE	DESCRIPTION
A	18/02/21	FOR CONSTRUCTION

Project Title	BRUNABELLA CHRISTIAN COLLEGE
Project Address	150 BRIDGLOW STREET, LYNEHAM VIC 3202
Design Project Manager	SV
Design Project Engineer	SV
Sheet No	A11
Project No	1506.16
Revision	A550
Author	AT
Checker	AT
Drawn	LYNEHAM
Scale	AS SHOWN

Project Title	BRUNABELLA CHRISTIAN COLLEGE
Project Address	150 BRIDGLOW STREET, LYNEHAM VIC 3202
Design Project Manager	SV
Design Project Engineer	SV
Sheet No	A11
Project No	1506.16
Revision	A550
Author	AT
Checker	AT
Drawn	LYNEHAM
Scale	AS SHOWN

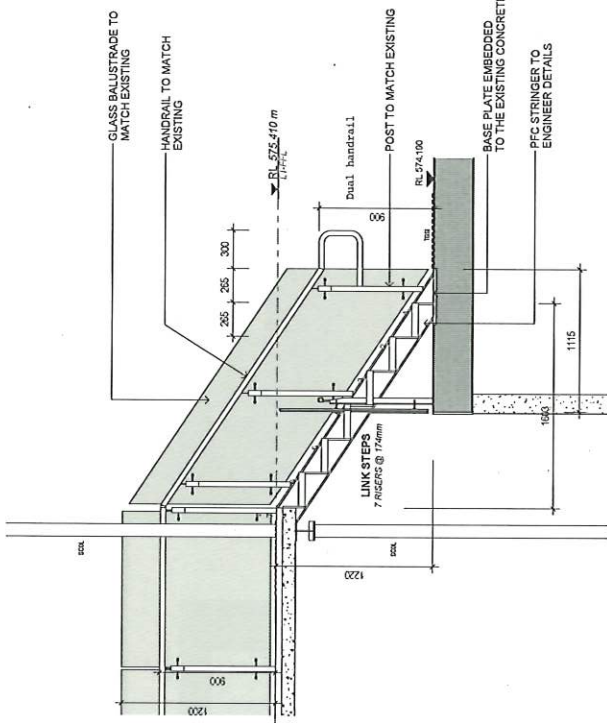
Sch 2.2(a)(xi)

Building Approval
 is issued under section 22 of the Building Act 2014

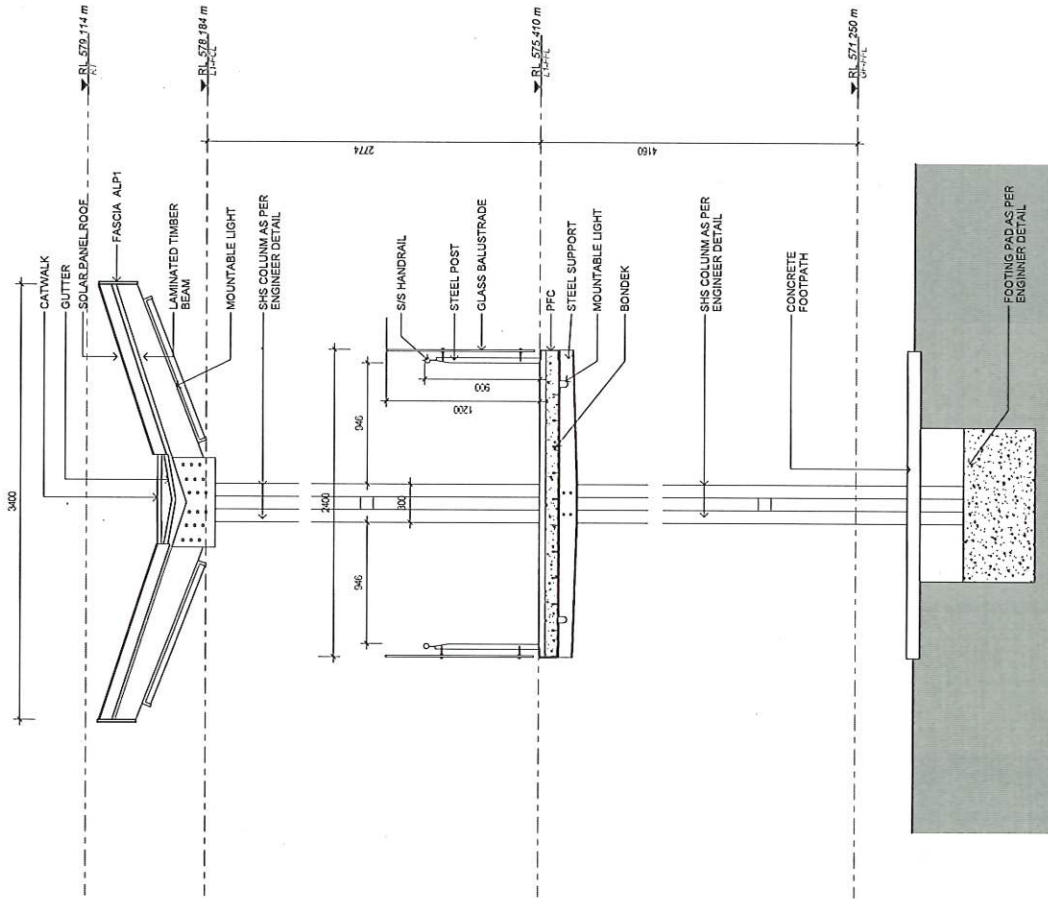
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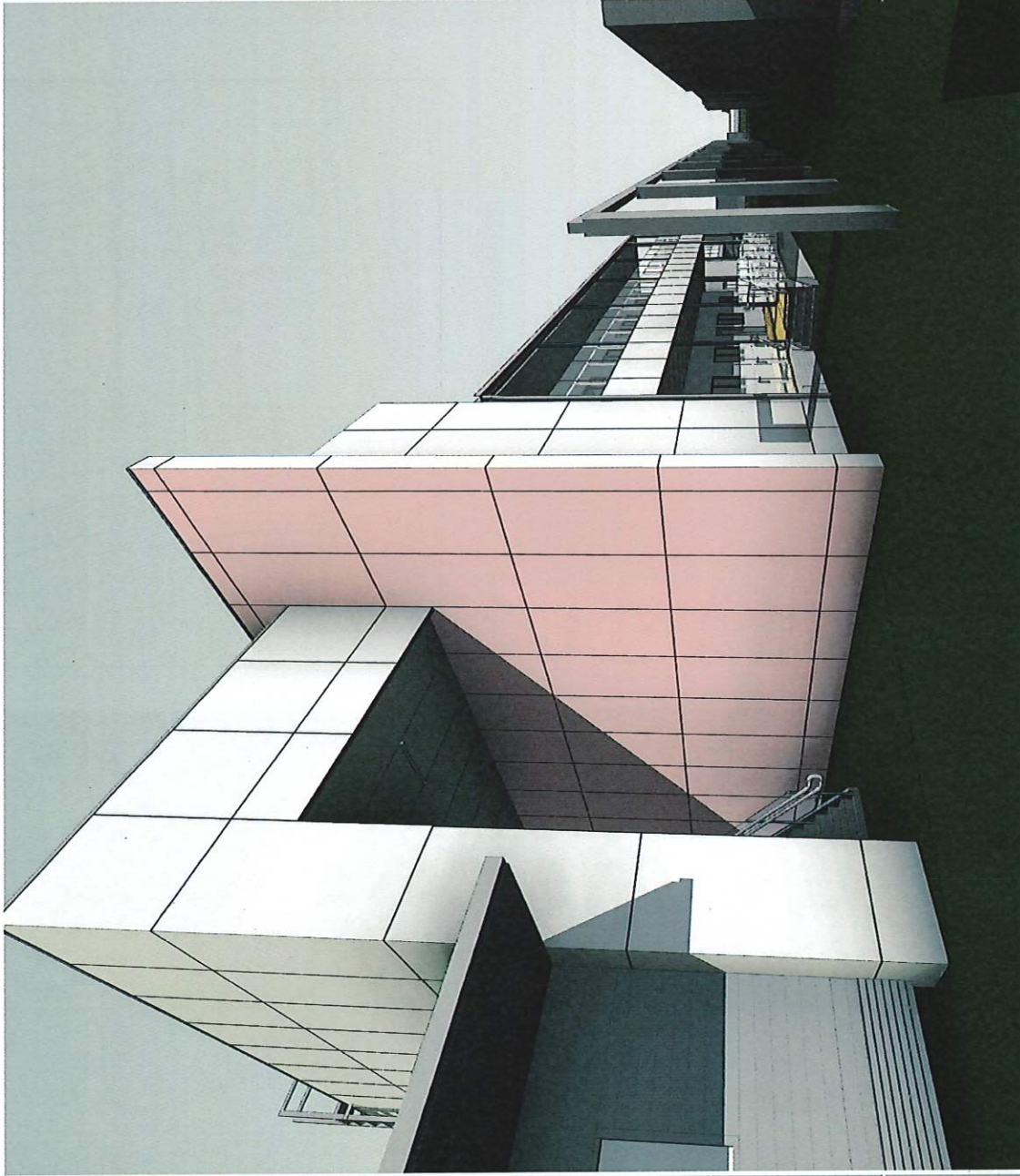


LINK BRIDGE STEPS DETAIL
V132 1:20



LINK BRIDGE SECTION DETAIL
V132 1:20

<p>Sch 2.2(a)(x)</p> <p>Building Approval Issued under section 28 of the Building Act 2004</p>		<p>Client: BRINDABELLA CHRISTIAN COLLEGE</p> <p>Project Title: DEMOUNTABLE V2</p> <p>Project Address: 136 BRIGALOW STREET, LYNEHAM ACT 2022</p> <p>Block: 4, Section: 41, District: LYNEHAM</p> <p>Scale: 1:20, Sheet No: A551, Project No: 1506.16</p>	<p>Project Title: CONSTRUCTION DETAILS</p> <p>Design/Project Manager: NI</p> <p>Design Architect: NI</p> <p>Structural Engineer: A1</p> <p>Author: A551</p> <p>Checked: A</p>
<p>REV: A</p> <p>DATE: 04/02/21</p> <p>DESCRIPTION: FOR CONSTRUCTION</p>	<p>1 LINK BRIDGE SECTION DETAIL V132 1:20</p>		



Sch 2.2(a)(xi)

Building Approval
Is issued under section 22 of the Building Act 2004

Sch 2.2(a)(ii)

DOC	DATE	DESCRIPTION
A	04/02/21	FOR CONSTRUCTION

Name: RINDABELLA CHRISTIAN COLLEGE Project Title: ENDUNIT/ABLE V2 <small>All dimensions in millimetres. Do not scale drawings. All measurements and levels to be verified on site by contractor before commencing work or preparation of shop drawings. Where provided, drawings shall be used for construction purposes only. Do not copy or reproduce.</small>		Project Status: BUILDING APPROVAL Project Address: 130 BRIGGLOW STREET, LYNBURN ACT 2002 Date: 01/01/21 Section: 4/1 Design Level: SV Project Estimate: 1506.16 A630 Design Level: SV Project Estimate: 1506.16 A630 Design Level: SV Project Estimate: 1506.16 A630
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Sch 2.2(a)(xi)

CONSTRUCTION NOTES:

Sch 2.2(a)(xi)

GENERAL NOTES:

Sch 2.2(a)(xi)

NOTES

1. ALL WORK TO BE IN ACCORDANCE WITH 45 2000 A.C.T WATER & SEWERAGE ACT 2000 AND A.C.T WATER & SEWERAGE Sch 2.2(a)(xi)
2. ALL WORK TO BE IN ACCORDANCE WITH 45 2000 A.C.T WATER & SEWERAGE ACT 2000 AND A.C.T WATER & SEWERAGE Sch 2.2(a)(xi)
3. ALL WORK TO BE IN ACCORDANCE WITH 45 2000 A.C.T WATER & SEWERAGE ACT 2000 AND A.C.T WATER & SEWERAGE Sch 2.2(a)(xi)
4. ALL WORK TO BE IN ACCORDANCE WITH 45 2000 A.C.T WATER & SEWERAGE ACT 2000 AND A.C.T WATER & SEWERAGE Sch 2.2(a)(xi)

Sch 2.2(a)(xi)

WATER SUPPLY FROM DRAINAGE

DRAINAGE PLAN No.	
No.	Description
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3	FOR REVIEW
4	FOR REVIEW
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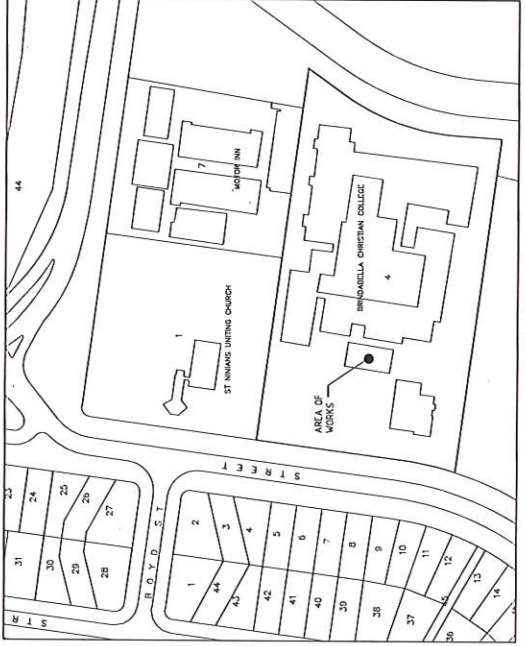


CERTIFICATION

Hydraulic Contractor:



Unit 2, 11 Dandenong Street Dandenong, VIC 3175
Phone: (07) 5201 0258 Fax: (07) 5201 1351



LOCATION PLAN
1:100

ADDITIONAL WORK
PLUMBING PLAN APPROVED
DATE: 21/02/2011
BY: [Signature]

Project Title:
BRINDABELLA CHRISTIAN COLLEGE
DEMOUNTABLE V2

Client:
BRINDABELLA CHRISTIAN COLLEGE

Project Address:
136 BRIGALOW STREET
LYNEHAM ACT

Block: 4 Section: 4.1

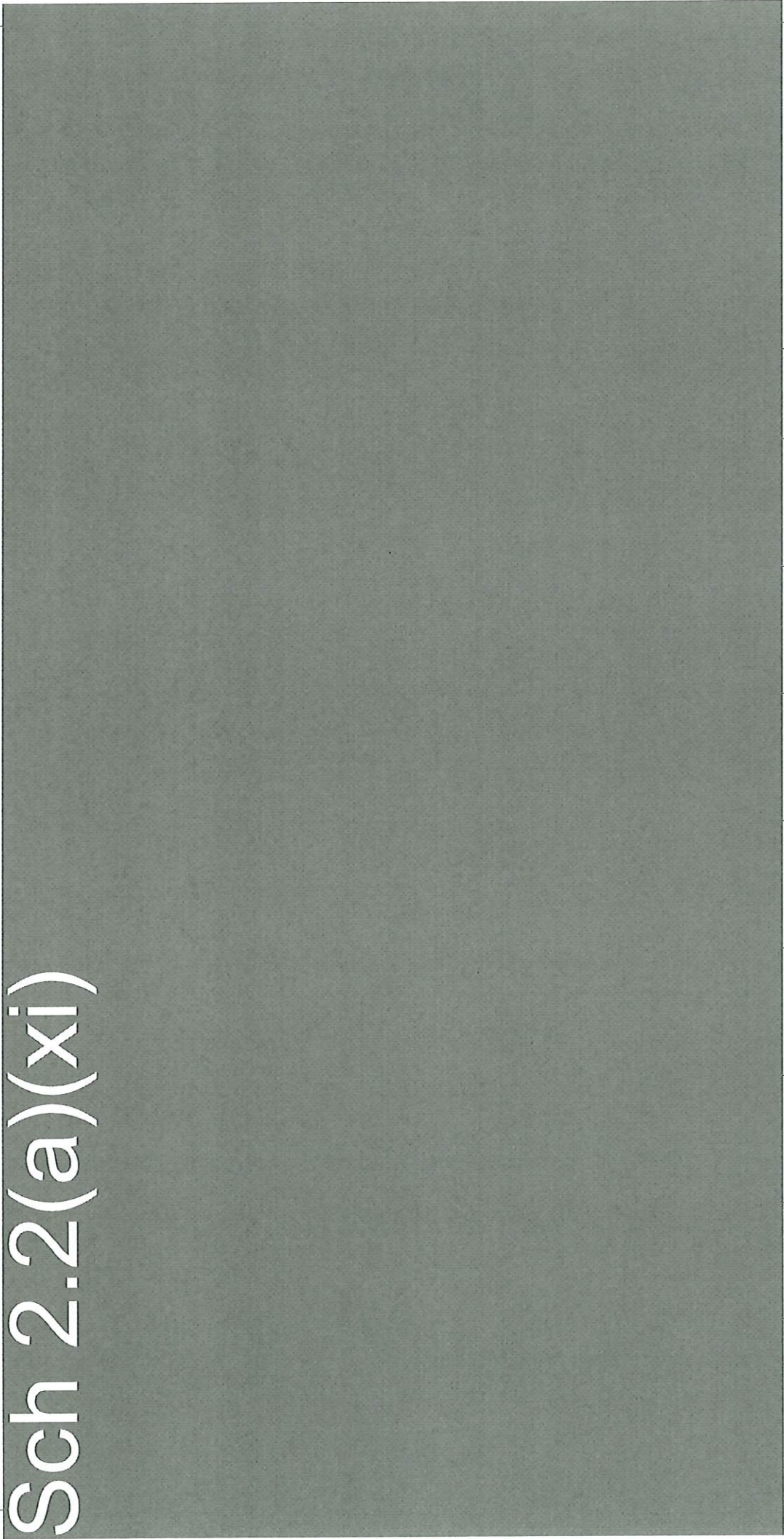
Drawing Title:
HYDRAULIC SERVICES
SANITARY & STORMWATER DRAINAGE
DRAINAGE PLAN


Drawn: [Signature] Designer: WP
Checked: [Signature] Reviewer: WP
Scale: 1:100 @A4

Verifier: WP

Project No: 21/02 H01
Sheet No: B
Amendment:

Sch 2.2(a)(xi)



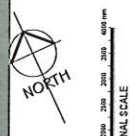
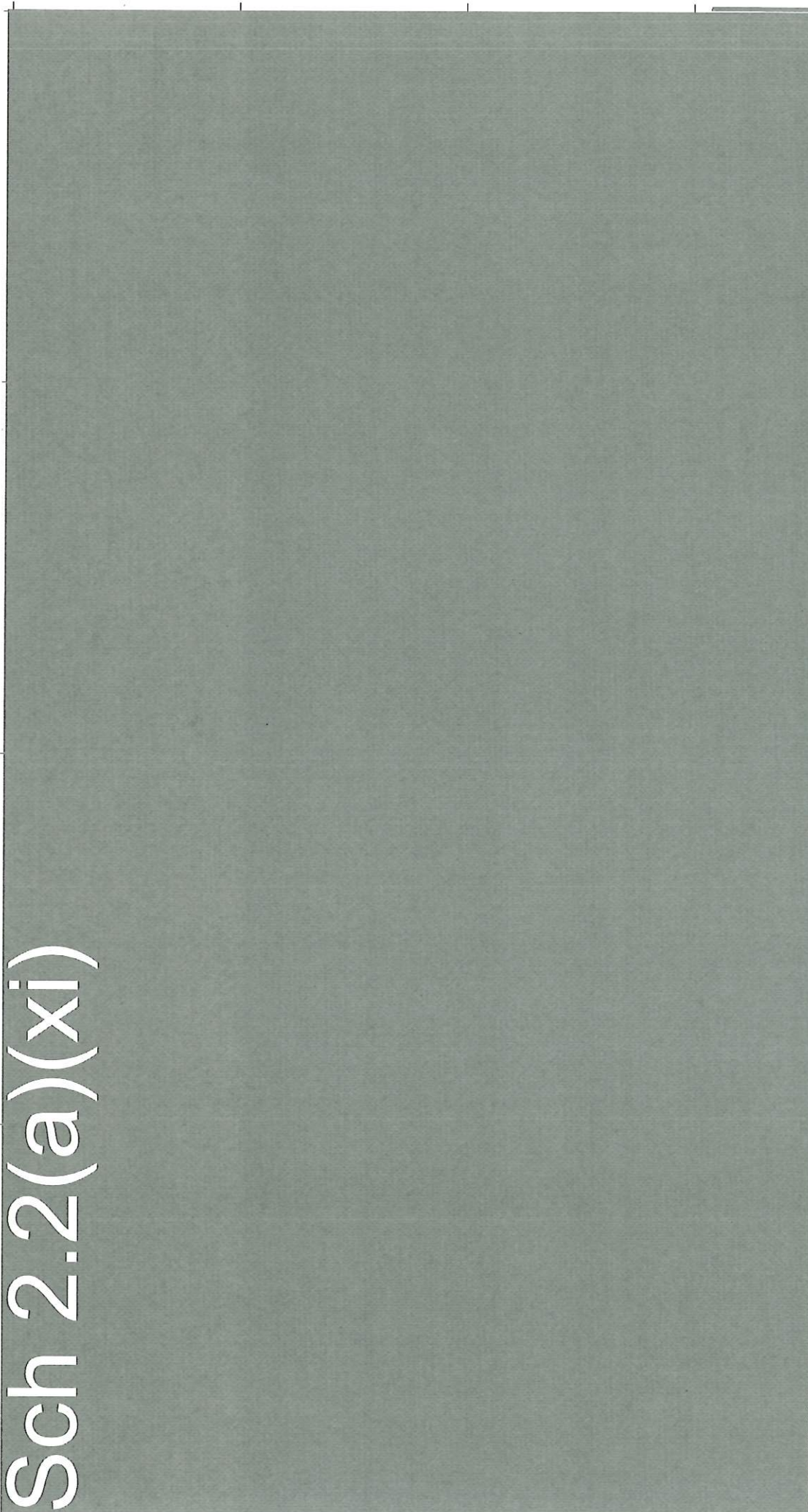


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REV	DATE	DESCRIPTION							
A	MAY.21	Building Approval							

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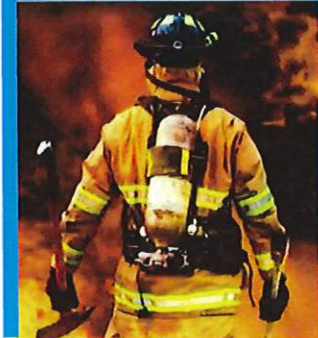
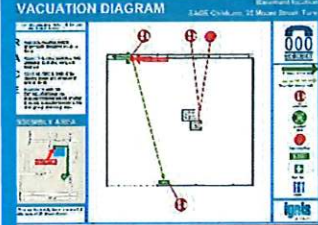
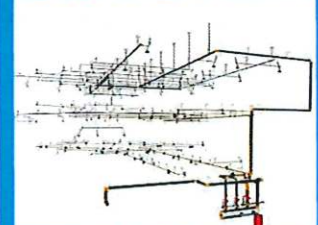
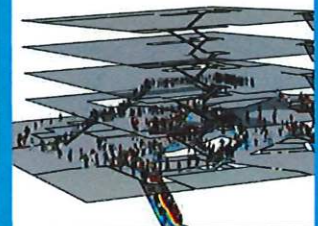


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RTV	DATE	DESCRIPTION	Client	Project Name	Project Manager	Project Architect	Design Verifier
A	04.02.21	Building Approval	BRINDABELLA CHRISTIAN COLLEGE	For Building Approval	AS PROJECTED	A1	SV
			Project Name DEMOUNTABLE V2	Project Address 133 BRIDGECOM STREET, LYNEHAM ACT 2602	Project No.	Sheet No.	Assessment
			All dimensions in millimeters. Do not scale drawing. All dimensions and levels to be used on site by contractor unless otherwise specified. Must be used in conjunction with standards of work or specifications.	Block: 4	Drawn: LYNEHAM		

Sch 2.2(a)(xi)

Sch 2.2(a)(xi)



PROFESSIONAL FIRE SAFETY ENGINEERS

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Brindabella Christian College Block 04 Section 41 Lyneham ACT FIRE ENGINEERING REPORT

8158 Issue 02 Revision 00 17-Nov-20

DOCUMENT REVISION HISTORY

Issue	Revision	Date	Purpose of Issue	Prepared by	Reviewed by
01	00	12-Nov-2020	Issued for internal review	NC	BR
02	00	17-Nov-2020	Additional Performance Solution for travel, inclusion of hydrant comments	NC	BR

SQC
Unit 3, Level 1
22 Thyne Street
Bruce, ACT 2617

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BEng (ANU)

Reviewed by
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Senior Project Engineer
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MFireSafety (UWS), BEng (UTS), GradDipBushFire (UWS), DipEngPrac (UTS), DipEng (CIT)

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CONDITIONS AND LIMITATIONS

The report does not provide guidance in respect of areas, which are used for bulk storage, processing of flammable liquids, explosive materials, multiple fire ignitions or sabotage of existing fire safety systems.

Apart from where noted in the specific sections of this report, we have not verified information provided by external parties and assume that the remainder of the building will comply with the DtS provisions of the NCC Volume 1 – BCA.

Any application of the content of this report should be made taking into full account the following items:

1. observations of the building fire safety systems and fire hazards listed in this report have been based on examination of documentation made available by the design team.
2. any change in the information referenced including building design as detailed in this report to suit future re-organisation or planning will require further evaluation to confirm compliance with the intent of the design objectives.
3. the data, methodologies, calculations and conclusions documented within this report specifically relate to the building and must not be used for any other purpose.
4. specifically, the report does not consider property damage; e.g. building and contents damage caused by fire, potential increased insurance liability and loss of business continuity.
5. this report considers a single point of fire as a source of ignition.
6. the design complies with the current DtS provisions of the BCA except for the specific performance solutions identified within this report.
7. figures provided within the report are indicative only. Full and appropriate detail is expected to be provided within discipline specific engineering specifications and associated detail design drawings by others.
8. all of the fire safety systems are assumed to be designed, installed and operate in accordance with the appropriate Australian Standards, other design codes, legislation and regulations relevant to the project unless specifically stated otherwise.
9. for a satisfactory level of fire safety to be achieved, regular testing and maintenance of all fire safety systems and measures, including management-in-use systems, is essential and is assumed in the conclusion of this evaluation.

Potential risks of incendiary are limited in the scope of engineering design. Conventional building design can only provide limited protection against malicious attack; for example, large scale incendiary and multiple ignition sources can potentially overwhelm some fire safety systems.

Strategies such as security, housekeeping and other management procedures may be more effective than additional fire protection in addressing arson events.

This report is applicable to the Project only. It does not consider property damage to the building as a result of the performance solutions addressed in the evaluations.

A number of issues within the NCC Volume 1 – BCA are interpretive in nature. Where these issues are encountered, interpretations are made that are consistent with standard industry practice.

This report is prepared in good faith and with due care for information purposes only, and should not be relied upon as providing any warranty or guarantee. In particular, attention is drawn to the nature of the inspection and investigations undertaken and the limitations these impose in determining with accuracy the state of the building, its services or equipment and life safety.

Ignis Solutions' involvement in the Project is limited to the role outlined in section 2 'Scope of Service' of the Letter. This report reflects that role. Any reliance on, or use of, this report for purposes outside the scope of service is at the user's own risk.

Ignis Solutions shall not be held liable for any loss or damage resulting from any defect of the building or its services or equipment or for any non compliance of the building or its services or equipment with any legislative or operational requirement, whether or not such defect or non-compliance is referred to or reported upon in this report, unless such defect or non-compliance should have been apparent to a competent engineer undertaking the evaluation of the type undertaken for the purpose of preparation of this report.

Ignis Solutions has carefully reviewed and applied to the best of our ability the requirements of local Legislation, the NCC and the International Fire Engineering Guidelines.

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Part

A

executive summary

1 EXECUTIVE SUMMARY

1.1 General

Ignis Solutions has been engaged by SQC regarding the development at Block 04 Section 41 Lyneham ACT.

The development is consists of a two storey school building (Class 9B) located on the existing school site of Brindabella Christian College at Block 04 Section 41, Lyneham. Vehicle access, pedestrian access as well as fire brigade access to the development is from Brigalow Street.

Provision A2.0 details that a Building Solution will comply with the BCA if it satisfies the Governing Requirements of the NCC and the Performance Requirements. A building solution as defined by the BCA means a solution, which complies with the Performance Requirements and is an Alternative Solution or a solution, which complies with the Deemed-to Satisfy provisions or a combination of both.

1.2 Scope and Purpose

The purpose of this assessment is to evaluate the nominated performance requirements to demonstrate that the relevant performance requirements of the National Construction Code Volume One – Building Code of Australia 2019 Amendment One are maintained.

TABLE 1:
PERFORMANCE SOLUTION SUMMARY

Assessment	Relevant BCA Provisions and Performance Requirements	Method for meeting performance requirements	IFEG Sub-system[s] Evaluated	BCA Assessment method
Rationalisation of FRLs – External Walls	C1.1 CP1 CP2	A2.1 (c)	C	A2.2 (2)(b)(ii)
Automatic Fire Detection and Alarm System	AS 1670.1:2015 Clause 2.3 EP4.3	A2.1 (c)	D	A2.2 (2)(b)(ii)
Protection of Openings	C3.2 CP2 CP8	A2.1 (3)	C	A2.2 (2)(b)(ii)
Distance of Travel	D1.4 D1.5 DP4	A2.1 (3)	E	A2.2(2) (b)(ii)

Source: Ignis Solutions

1.3 Relevant Stakeholders

Consultation with project stakeholders is undertaken based on the International Fire Engineering Guidelines Clause 1.2.2. The following stakeholders were involved in this fire engineering analysis.

The relevant stakeholders consulted in developing this fire strategy are outlined in the table below.

TABLE 2:

PROJECT STAKEHOLDERS

Name	Role	Organisation
Phil Ma	Client / builder	Vamos Group
Sander de Vries	Architect	SQC Architecture
David Delchau	Certifier	CBS Building Surveyors
	Building owner	Brindabella Christian College
ACT F&R Fire Engineering Review officer	Referral Entity	ACT Fire & Rescue
Nicole Cocks	Fire Safety Engineer	Ignis Solutions
Brad Robson	Senior Project Engineer	Ignis Solutions
Benjamin Hughes-Brown	Charter Professional Fire Safety Engineer	Ignis Solutions

Source: Ignis Solutions

1.4 Sources of Information

The following information sources were used in the evaluation of the buildings:

- National Construction Code 2019 Amendment One – Volume One – Building Code of Australia, Class 2 to 9 buildings, Australian Building Codes Board, Canberra, 2020. (BCA)
- Guide to the Building Code of Australia 2019 Amendment One – Volume One – Building Code of Australia, Class 2 to 9 buildings, Australian Building Codes Board, Canberra, 2020 (the Guide).
- International Fire Engineering Guidelines, Australian Building Codes Board, Canberra, 2005
- Drawings are provided by SQC with project number 1506.16, dated 11th September 2020.

1.5 Proposed Development

The location of the building is detailed below.

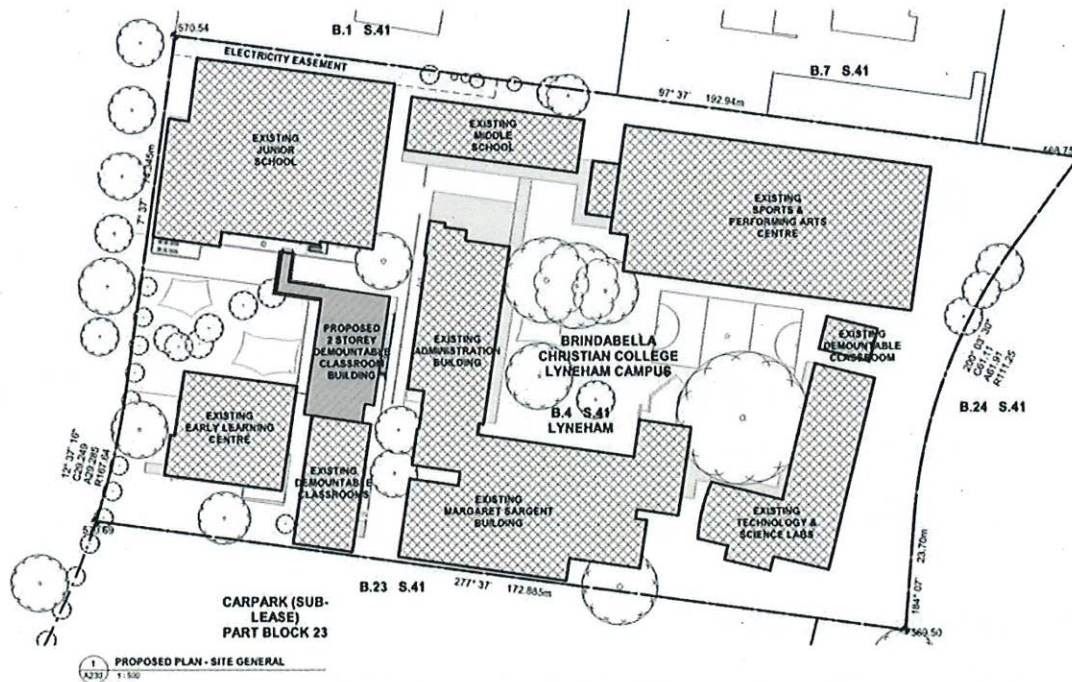
FIGURE 1:

BUILDING LOCATION



Source: ACTMapi and Google Maps

FIGURE 2:
SITE PLAN



Source: Hayball

The minimum fire safety measures required within the building are determined in accordance with several specifics of the building including the various occupancy classifications, effective height, rise in storeys, compartment size and building floor area.

TABLE 3:
BUILDING CLASSIFICATION DETAILS

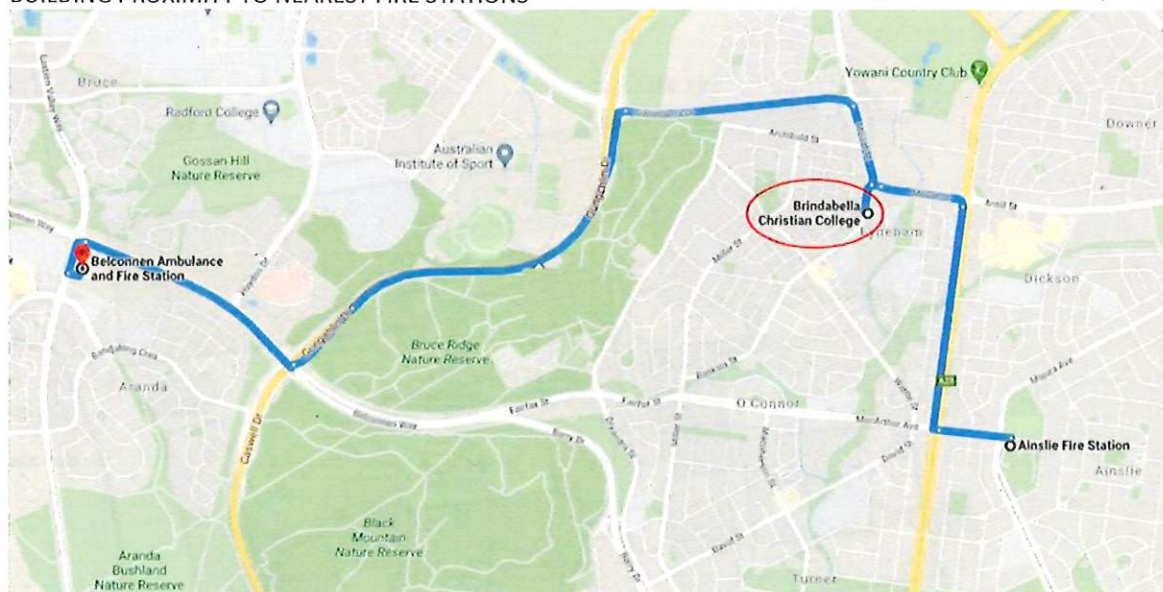
Project	Block 04 Section 41 Lyneham ACT
Occupancy	School
Classification	9b
Effective Height	<12 m
Rise in Storeys	2
Number of Storeys	2
Type of Construction	Type B

Source: ABCB NCC Volume One – Building Code of Australia 2019 Amendment One

1.6 Fire Brigade Intervention

The site is served by a response from ACT Fire & Rescue. The nearest ACT Fire & Rescue station is Ainslie Station being approximately 2.2 km by direct road from the site taking approximately 5 minutes. The second nearest ACT Fire & Rescue station is Belconnen Station being approximately 6 km by direct road from the site taking approximately 9 minutes. The site location and the two fire stations are outlined below:

FIGURE 3:
BUILDING PROXIMITY TO NEAREST FIRE STATIONS



Source: Google map and Ignis Solutions

1.7 Fire Engineering Briefing

Nicole Cocks from Ignis Solution and ACTF&R Station Office Chris White discussed the proposed Performance Solutions via email and phone from 28 September to 30 September 2020.

It was proposed to rationalise the type of construction from Type B and to rationalise the protection of openings. Following further discussions, in principle support was given.

Part

B

fire safety measures

The fire safety measures listed in this section are essential measures forming part of the performance solution that must be designed, installed and identified on the essential services maintenance schedule for the building. These essential measures must be maintained and certified in accordance with the provisions of the National Construction Code, this report and ABCB Maintenance of Safety Measures, Equipment and Energy Efficiency Installations Handbook 2014 and any applicable Australian Standards. Other measures may be required by the National Construction Code. These measures are likely to be detailed by specific design disciplines or the BCA consultant. Ignis Solutions scope relates to performance based design as detailed in this report only.

Current legislation for the maintenance of buildings is managed initially through Section 92 of the Emergencies Act where the chief officer may, in writing, direct the occupier of the premises for the provision or installation of a fire appliance at the premises.

In accordance with Section 95(2) of the Emergencies Act, it is an offence if a fire appliance is provided or installed at the premises under a direction under Section 92 and the occupier fails to maintain the fire appliance to a reasonable standard.

It is expected that through the ACT F&R Plan Review and Performance Review process under the Building (General) Regulations that direction under Section 92 will be provided.

It is assumed that the following fire safety measures, limitations and assumptions of this report are read, understood and implemented. Ignis Solutions should be contacted if there are queries in regards to the content. Ignis Solutions takes no responsibility for the misinterpretation by others.

2 FIRE SAFETY MEASURES

2.1 General

- a. The following fire safety measures relate to elements that are associated with the performance analysis. All other elements of the buildings fire safety measures not specifically documented in the following section is to comply with the requirements of the BCA and documented by others. Ignis Solutions takes no responsibility for compliance matters relating to fire safety that have not been discussed or brought to our attention.

2.2 Structural Fire Safety Measures

2.2.1 Rationalisation of FRLs

- a. It is proposed to rationalise the construction of the two storey portable style classroom building from Type B construction. The rationalisations include the following specific items:
- b. It is proposed for the external wall of the upper storey which is located within 18m of another building on the site to not have an FRL.
- c. It is also proposed for the supporting elements of the upper floor be required to have an FRL of at least 60/60/60 in lieu of 120/120/120.
- d. It is proposed for the fire separation of the floor to be with two layers of 13mm Fyrecheck.
- e. Future school expansion is to maintain the 6m separation of this building.

2.3 Architectural Measures

2.3.1 Openings within 6m of an adjacent building on the same allotment

- a. It is proposed for the openings in the external walls that are within 6m of the adjacent Early Learning Centre to remain unprotected.

2.3.2 Travel distance

- b. It is proposed for the travel from the balcony to be up to approximately 29m to a point of choice in lieu of 20m and up to 49m to an exit in lieu of 40m.

a. 2.4 Hydraulic System Measures

b. 2.4.1 Fire Hydrant System

- c. It is proposed for the coverage of the fire hydrant system within the site from the external attack hydrants to be via three lengths of fire hose.

- d. A hydrant block plan is to be provided at the building entrance/FIP and FBBV in accordance with Clause 7.11 of AS 2418.1:2005. The hydrant block plan is to detail the location of the hydrants, the hydrant booster, access points around the site, buildings and the signage as detailed below.

- e. Signage is required indicating that three lengths of fire fighting hose is required to provide coverage for the building. This signage shall be located at the buildings entrances and adjacent to each building entrance and shall read "THREE LENGTHS OF FIRE FIGHTING HOSE IS REQUIRED TO REACH ALL AREAS FROM THE EXTERNAL HYDRANTS".

The signage is to be in capital lettering, not less than 20mm high in a colour contrasting the background. Signage must be permanent, fade resistant and weatherproof – i.e. must be screw fixed or other and not laminated paper.

Blue cats eye markers as well as blue poles are to be located at each attack hydrant point.

2.5 Active Fire Safety Measures

2.5.1 Fire Detection and Alarm System

- a. It is proposed that the new portable building be monitored by the existing FIP located in the administration building with the building separated into detection zones as appropriate.

2.6 Fire Safety Measures Maintenance

2.6.1 Maintenance Requirements

- a. Current legislation for the maintenance of buildings is managed initially through Section 92 of the Emergencies Act where the chief officer may, in writing, direct the occupier of the premises for the provision or installation of a fire appliance at the premises.

In accordance with Section 95(2) of the Emergencies Act, it is an offence if a fire appliance is provided or installed at the premises under a direction under Section 92 and the occupier fails to maintain the fire appliance to a reasonable standard.

It is expected that through the ACT F&R Plan Review and Performance Review process under the Building (General) Regulations that direction under Section 92 will be provided.

- b. A fire safety schedule of essential measures is to be generated and kept on the building file as well as provided at the Fire Indicator Panel.

2.7 Essential Fire Safety Measures

2.7.1 Essential Fire Safety Measures

- a. All Fire safety systems listed in this performance report are considered to be essential measures and to be maintained in accordance with AS 1851:2012.

Part

C

performance solutions

3 RATIONALISATION OF FRLS

3.1 Brief of Proposed Performance Solution

Clause C2.2 of the BCA details that a school building (Class 9b) with rise in storeys of two is to be of Type B construction. Table 4 of Specification C1.1 details the FRL of loadbearing elements for Type B construction. Clause 4.1(b) of Specification C1.1 requires that each building element in a building of Type B construction comply with Table 4 of Specification C1.1, with a typical FRL rating of 120/120/120.

The construction of the building is predominantly offsite, which results in some challenges for fire rating.

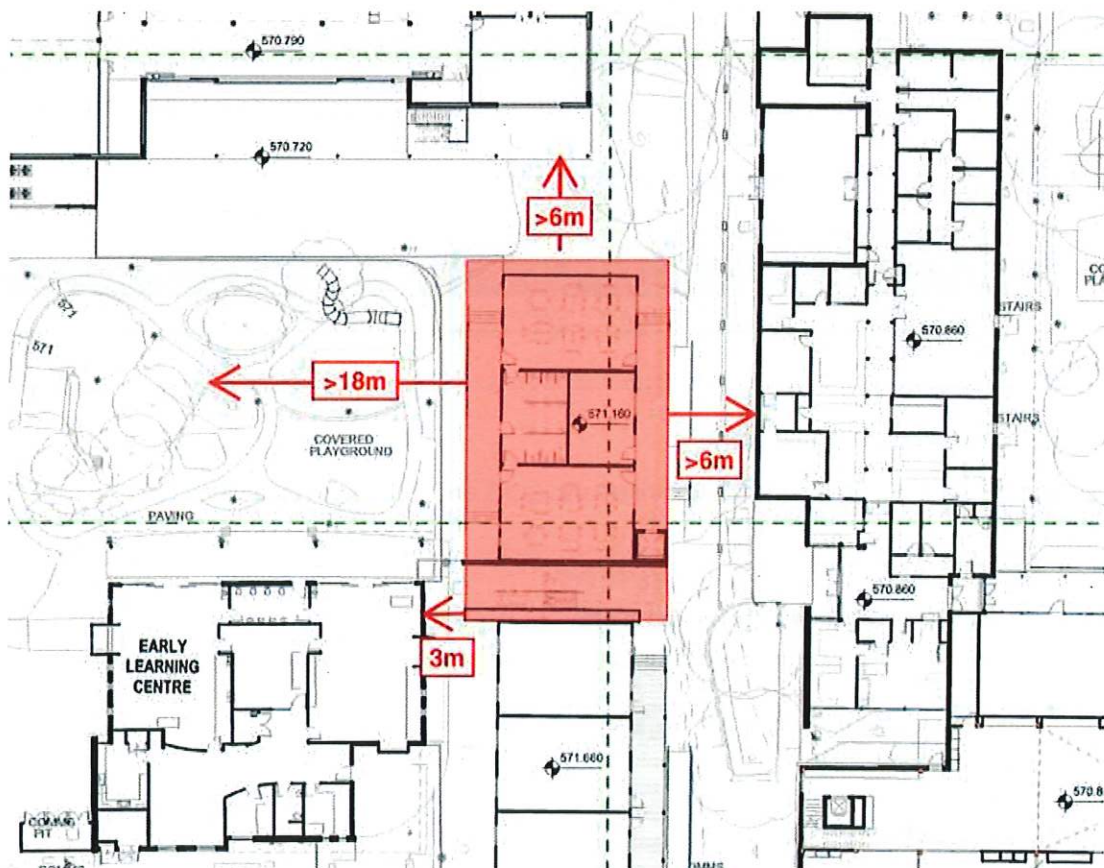
It is proposed for the external wall of the upper storey which is located within 18m of another building on the site to not have an FRL.

It is also proposed for the supporting elements of the upper floor be required to have an FRL of at least 60/60/60 in lieu of 120/120/120.

It is proposed for the fire separation of the floor to be with two layers of 13mm Fyrechek.

FIGURE 4:

DISTANCE TO FIRE SOURCE FEATURES



Source: SQC and Ignis Solutions

3.1.1 BCA Deemed-to-Satisfy

BCA Clause C1.1 details the type of construction required based on the rise in storeys and classification of building. See below:

FIGURE 5:

NCC – VOL 1 – CLAUSE C1.1

C1.1 Type of construction required

- (a) The minimum Type of *fire-resisting construction* of a building must be determined in accordance with [Table C1.1](#), except as allowed for—
 - (i) certain Class 2, 3 or 9c buildings in [C1.5](#); and
 - (ii) a Class 4 part of a building located on the top [storey](#) in [C1.3\(b\)](#); and
 - (iii) *open spectator stands* and indoor sports stadiums in [C1.7](#).

[SA C1.1\(a\)\(iv\)](#) and [\(v\)](#)
- (b) Each building element must comply with [Specification C1.1](#) as applicable.

Table C1.1 Type of construction required

Rise in storeys	Class of building	
	2, 3, 9	5, 6, 7, 8
4 or more	A	A
3	A	B
2	B	C
1	C	C

Source: ABCB NCC Volume One – Building Code of Australia 2019 Amendment One

3.1.2 Intent of BCA Deemed-to-Satisfy Clause

The Guide to the BCA is indented as a reference manual to provide clarification to the BCA and should be read in conjunction with the BCA. The Guide to the BCA describes the intent of Clause C1.1 as:

FIGURE 6:

NCC – GUIDE TO VOL 1 – CLAUSE C1.1

C1.1 Type of construction required

Intent
To establish the minimum fire-resisting construction required for Class 2–9 buildings.

Source: ABCB NCC Volume One, Guide – Building Code of Australia 2019 Amendment One

3.1.3 BCA Performance Requirement

The relevant BCA Performance Requirement is CP1 and CP2 as detailed below:

FIGURE 7:

NCC – VOL 1 – PERFORMANCE REQUIREMENT CP1

CP1 Structural stability during a fire

A building must have elements which will, to the degree necessary, maintain structural stability during a fire appropriate to—

- (a) the function or use of the building; and
- (b) the *fire load*; and
- (c) the potential *fire intensity*; and
- (d) the *fire hazard*; and
- (e) the height of the building; and
- (f) its proximity to *other property*; and

- (g) any active *fire safety systems* installed in the building; and
- (h) the size of any *fire compartment*; and
- (i) *fire brigade* intervention; and
- (j) other elements they support; and
- (k) the *evacuation time*.

Source: ABCB NCC Volume One – Building Code of Australia 2019 Amendment One

FIGURE 8:

NCC – VOL 1 – PERFORMANCE REQUIREMENT CP2

CP2 Spread of fire

- (a) A building must have elements which will, to the degree necessary, avoid the spread of fire—
 - (i) to *exits*; and
 - (ii) to *sole-occupancy units* and *public corridors*; and

Application:

CP2(a)(ii) only applies to a Class 2 or 3 building or Class 4 part of a building.

- (iii) between buildings; and
- (iv) in a building.
- (b) Avoidance of the spread of fire referred to in (a) must be appropriate to—
 - (i) the function or use of the building; and
 - (ii) the *fire load*; and
 - (iii) the potential *fire intensity*; and
 - (iv) the *fire hazard*; and
 - (v) the number of *storeys* in the building; and
 - (vi) its proximity to *other property*; and
 - (vii) any active *fire safety systems* installed in the building; and
 - (viii) the size of any *fire compartment*; and
 - (ix) *fire brigade* intervention; and
 - (x) other elements they support; and
 - (xi) the *evacuation time*.

Source: ABCB NCC Volume One – Building Code of Australia 2019 Amendment One

3.1.4 Relevant Element of Performance Requirement

The entirety of the Performance Requirements CP1 and CP2 detailed above are relevant.

3.1.5 Meeting the Performance Requirement

The Performance Requirement will be satisfied by A2.1 (3): a combination of (1) and (2) where (1) is a Performance Solution and (2) is a Deemed-to-Satisfy Solution.

3.1.6 Assessment Method

BCA Clause A2.2 (2)(b)(ii) Other Verification Methods accepted by appropriate authority that show compliance with the relevant Performance Requirements.

3.1.7 Methodology

The following methodologies will be applied to the evaluation:

- | | | |
|----------------------------------------------|-------------------------------------------------|---------------------------------------------------|
| <input checked="" type="checkbox"/> Absolute | <input type="checkbox"/> Quantitative | <input checked="" type="checkbox"/> Deterministic |
| <input type="checkbox"/> Comparative | <input checked="" type="checkbox"/> Qualitative | <input type="checkbox"/> Probabilistic |

Absolute approach

As outlined in the International Fire Engineering Guideline an absolute approach is typically when an evaluation is carried out on an absolute basis, the results of the analysis of the trial design are matched, using the agreed acceptance criteria against the objectives or performance requirements without comparison to deemed-to-satisfy or prescriptive or “benchmark” designs.

Qualitative approach

A qualitative approach refers to descriptions or distinctions based on a quality or characteristic rather than on a quantity or measures value. The qualitative approach includes structured arguments to demonstrate compliance.

Deterministic approach

A deterministic approach is a methodology based on physical relationships derived from scientific theories and empirical results that for a given set of conditions will always produce the same outcome.

3.1.8 Acceptance Criteria

The acceptance criteria for this performance solution is that the proposed elements of the building have sufficient measures to limit fire spread and structural damage such that the BCA Performance Requirements CP1 and CP2 are satisfied to the degree necessary.

3.1.9 Identified Hazard

The potential hazard is that a fire incident may occur and the fire may spread and/or cause structural collapse.

3.1.10 IFEG Sub-system

The performance solution falls within Sub-System C: Fire Spread and Impact and Control. Sub-system is used to analyse the spread of fire beyond an enclosure, the impact fire might have on the structure and how the spread and impact might be controlled.

3.2 Performance Evaluation

Clause C2.2 of the BCA details that a school building (Class 9b) with rise in storeys of two is to be of Type B construction. Table 4 of Specification C1.1 details the FRL of loadbearing elements for Type B construction. Clause 4.1(b) of Specification C1.1 requires that each building element in a building of Type B construction comply with Table 4 of Specification C1.1, with a typical FRL rating of 120/120/120.

The construction of the building is predominantly offsite, which results in some challenges for fire rating.

It is proposed for the external wall of the upper storey which is located within 18m of another building on the site to not have an FRL.

It is also proposed for the supporting elements of the upper floor be required to have an FRL of at least 60/60/60 in lieu of 120/120/120.

It is proposed for the fire separation of the floor to be with two layers of 13mm Fyrechek.

In lieu of Type B construction, the following fire protections are proposed:

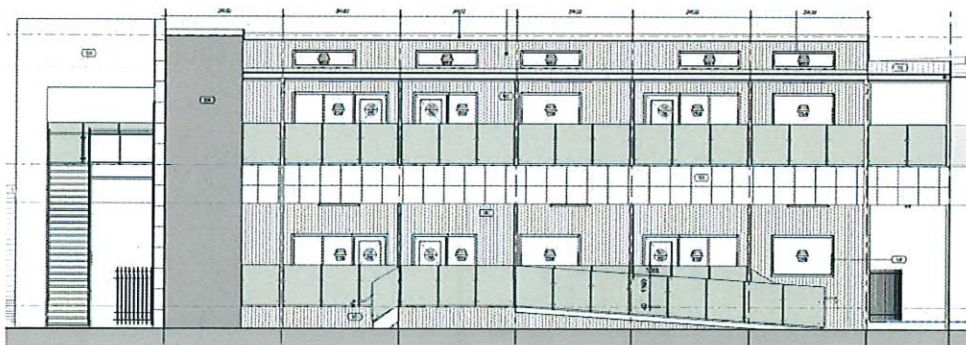
- The upper level does not require an FRL for the roof or the elements which support it. The external wall of this upper level, where greater than 6m from a fire source feature is proposed to not have an FRL. The external wall within 6m will achieve the FRL
- The ceiling separating the storeys will have two layers of 13mm Fyrechek to protect all the beams. This will extend to the soffit of the fire floor verandah to protect its supporting beams, achieving the required resistance to the incipient spread of fire.
- All external walls and internal walls to the lower level will have two layers of 13mm Fyrechek inside and outside (protecting the columns within), achieving an FRL of no less than 60/60/60.
- The external columns which support the first floor verandah will be painted with an intumescent coating, to achieve an FRL of not less than 60 minutes
- All building materials will comply with the requirements of Type B construction in regards to non-combustibility

Building Description

The proposed building is a two storey multi-use school building that is to be prefabricated off site. For this reason, there are inherent difficulties of fire rating a product off site. It consists of five classrooms and an administration room spread across the two levels and as such is to be of Type B construction. It has an area of approximately 390m². The building is fitted with a smoke detection and alarm system in accordance with AS 1670.1.

Whilst the building is of a portable construction, the school is undergoing a ten year expansions/renovation plan and it is anticipated that this portable unit will be required for (at least) this time period.

FIGURE 9:
BUILDING ELEVATION

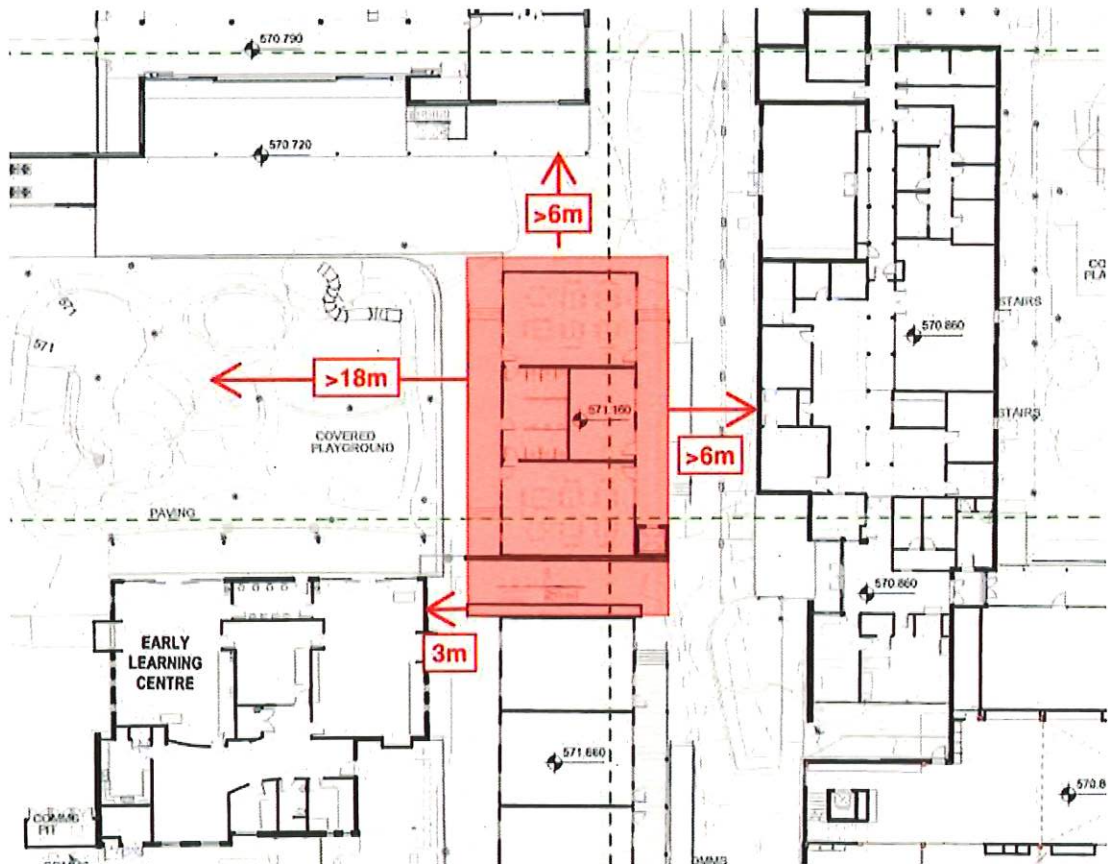


Source: SQC

Separation of building and fire spread

The building is surrounded on all sides by separate Class 9b school buildings. It is proposed for the external walls on the upper storey within 18m of a fire source feature to not have an FRL. All external walls of the lower storey will have an FRL. The external wall on the upper level within 6m of a fire source feature will have an FRL or will be addressed in the protection of openings Performance Solution.

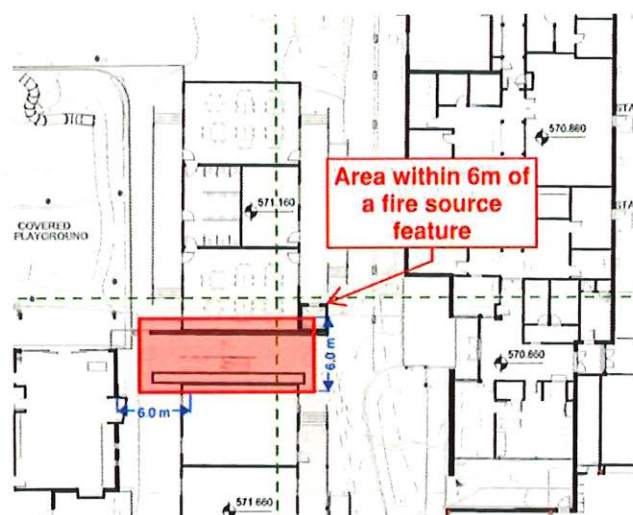
FIGURE 10:
DISTANCE TO FIRE SOURCE FEATURES



Source: SQC and Ignis Solutions

The section of building within 6m of a fire source feature is limited to the walkway from the upper level and a small section of the classrooms as shown below. By maintaining the FRL of the external wall within 6m of a fire source feature, the risk of fire spread is minimised.

FIGURE 11:
AREA WITHIN 6M OF A FIRE SOURCE FEATURE



Source: SQC and Ignis Solutions

Future school expansion is to consider and maintain the 6m separation of this building.

Internal separation and structural stability

Clause 4.1 (i) of Specification C1.1 details the requirements for floors separating storeys in buildings of Type B construction.

FIGURE 12:

NCC – VOL 1 – SPECIFICATION C1.1 CLAUSE 4.1 (PART)

4. Type B Fire-Resisting Construction

4.1 Fire-resistance of building elements

In a building *required* to be of Type B construction—

- (i) in a Class 2 or 3 building, except where within the one *sole-occupancy units*, or a Class 9a *health-care building* or a Class 9b building, a floor separating *storeys* or above a space for the accommodation of motor vehicles or used for storage or any other ancillary purpose, must—
 - (i) be constructed so that it is at least of the standard achieved by a floor/ceiling system incorporating a ceiling which has a *resistance to the incipient spread of fire* to the space above itself of not less than 60 minutes; or
 - (ii) have an FRL of at least 30/30/30; or
 - (iii) have a *fire-protective covering* on the underside of the floor, including beams incorporated in it, if the floor is *combustible* or of metal; and

Source: ABCB NCC Volume One – Building Code of Australia 2019 Amendment One

It is proposed for the fire separation of the floor to be with two layers of 13mm Fyrecheck to protect all the beams within the floor structure. This fire protection will extend to the soffit of the first floor veranda to protect its supporting beams.

The external walls and internal walls in the lower level which support the floor will also have two layers of 13mm Fyrecheck on each side to protect the supporting columns within. IN addition, the external columns which support the first floor veranda will be painted with an intumescent coating. A compliance option for a Class 9b floor is for it to achieve an FRL of at least 30/30/30. It is proposed that all supporting elements will achieve an FRL of not less than 60/60/60, greater than the requirement of the floor they support.

The Class 9b building can be compared to a Class 5 office building. Whilst the occupants classifications vary, the International Fire Engineering Guidelines provides the fire load densities for various occupancies. Table 3.4.1b, shown below, details that the 95 percent fractile for an office classification is 760 MJ/m², whereas a school is 450MJ/m². According to the BCA (table C1.1) a Class 5 office building is to be Type C construction and as such the floor and any walls greater than 3m from a fire source feature are not required to have an FRL. While the occupant characteristics differ between these classifications, the reduced fuel load improves the building's structural stability when compared to a Class 5 two-storey office building despite requiring to be of Type B construction.

FIGURE 13:
FIRE LOAD DENSITIES IN DIFFERENT OCCUPANCIES

Table 3.4.1b. Fire load density in different occupancies

Densities in mega-joules per square metre				
Occupancy	Mean (MJ/m ²)	Percent fractile *		
		80	90	95
Dwelling	780	870	920	970
Hospital	230	350	440	520
Hospital storage	2000	3000	3700	4400
Hotel bedroom	310	400	460	510
Offices	420	570	670	760
Shops	600	900	1100	1300
Manufacturing	300	470	590	720
Manufacturing and Storage* <150kg m ⁻²	1180	1800	2240	2690
Libraries	1500	2250	2550	---
Schools	285	360	410	450

Source: International Engineering Guidelines 2005, table 3.4.1b

Occupant Evacuation

The occupants of the building will consist of staff and students who are expected to be aware of their surroundings and the have a level of understanding regarding the location of exits. In the event of an emergency evacuation, the staff main focus will be on the safe evacuation of the students. The building is not a place of residence, thus it is assumed that occupants are awake and alert. With 3 classrooms on the upper level, 100 is the maximum occupancy anticipated on this level. Travel distances within the building are compliant.

Occupants on the lower level are provided with direct egress from the classrooms. Occupants on the upper level are provided with two separate fire stairs which discharge on opposite ends of the building. If a fire were to impact one of the evacuation routes, occupants are provided with an evacuation route away from the building and the alternative exit maintains the egress width for 100 persons.

The interconnected alarm system will also provide for early notification, such that evacuation should not be impeded.

The building has two storeys with long lines of sight from the balcony once occupants have left the classrooms, meaning occupants will be able to observe the hazard and react accordingly. There are multiple paths of egress from all areas within the building.

Detection Time

As the minimum DtS requirement of Provision E2.2b, the building is not required to be installed with an automatic smoke detection, which means that no means is provided to alert occupants remote of the fire origin to the fire event. However, the building is fitting with a fire detection and occupant warning system.

The proposed occupant warning system provides a means to alert occupants remote of the fire origin to the fire event such that evacuation an occur.

Premovement time

The occupant warning system provides a means to alert occupants remote of the fire origin to the fire event such that evacuation can occur. The pre-movement time typically applies only to areas remote

from the room of fire origin where they may receive only a single cue to the presence of fire and where those cues do not present an immediate threat to their health and safety.

Studies by Sime¹ and accepted by the International Fire Engineering Guidelines (IFEG) suggests pre-movement times as follows. Whilst these detail occupancies other than assembly buildings, it provides characteristics of occupants within buildings that may be unfamiliar with the exits:

TABLE 4:

PRE-MOVEMENT TIME		
Occupancy	System	Pre-movement time
Carpark	Alarm Bells	Four minutes
Shopping Centre	Alarm Bells	Six minutes
Shopping Centre	Non-directive public address system	Three minutes
Shopping Centre	Directive public address system	Two minutes

Source: Ignis Solutions

The premovement time is dependent on the type of occupancy, as the occupants of the class 9b level are staff and their students, the staff will assist with the evacuation of the students.

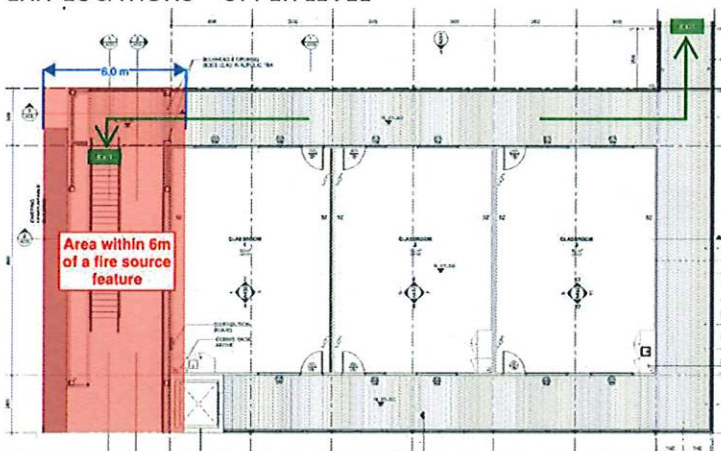
As the minimum DtS requirement of Provision E2.2b, the building is not required to be installed with an automatic smoke, which means that no means is provided to alert occupants remote of the fire origin to the fire event. As such, it is considered that the proposed fire detection and occupant warning system reduces the premovement time by a sufficient amount to offset the travel distance from the upper level. The combined improvement of the detection and occupant warning system presents at least a 5 minute improvement on the warning to occupants to evacuate the building in a fire event.

Exit Locations

There are two exits from the upper floor in opposite directions of egress. Once occupants have exited the classrooms they have clear lines of sight from the balcony to the adjacent building from and the exit that lies within 6m. Should the cause of the fire alarm be a fire in this adjacent building, occupants will be able to observe the location of the fire and move in an alternate direction. The balcony is also open to the air, meaning visibility is not impacted by smoke build-up.

FIGURE 14:

EXIT LOCATIONS – UPPER LEVEL



Source: SQC and Ignis Solutions

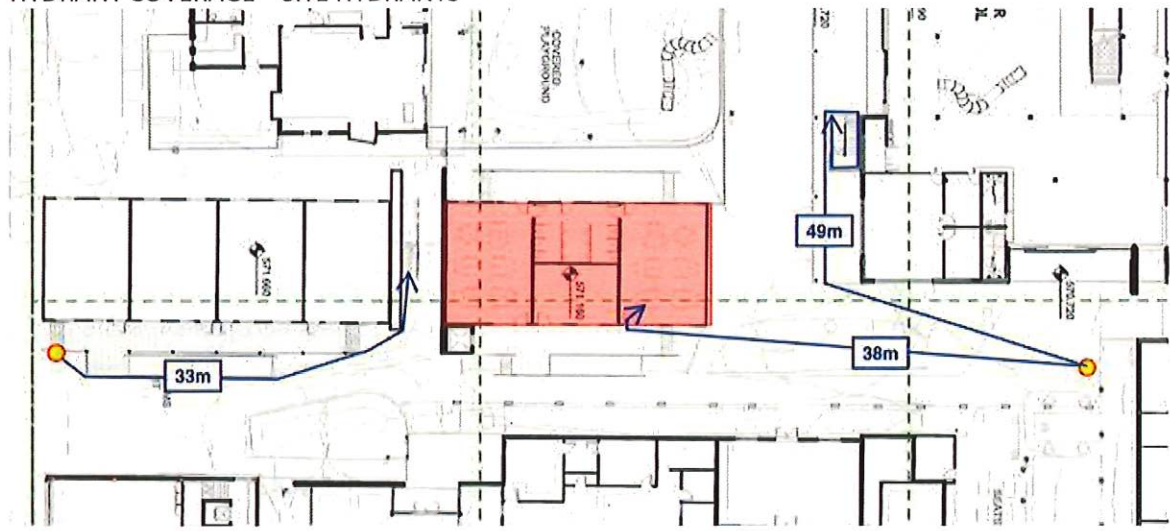
¹ Sime, JD., An occupant response JD escape time (ORET) Model, Jonathan Sime Associates (JSA), Godalming UK, 1995.

Based on the fuel load of the building, the increased detection time, as well as occupant evacuation routes, the reduced FRLs are determined to maintain compliance with the intent of the BCA in preventing the spread of fire.

Fire Brigade Intervention

The site is served by a boosted attack hydrant system with the hydrants used to provide coverage to the proposed building outlined below.

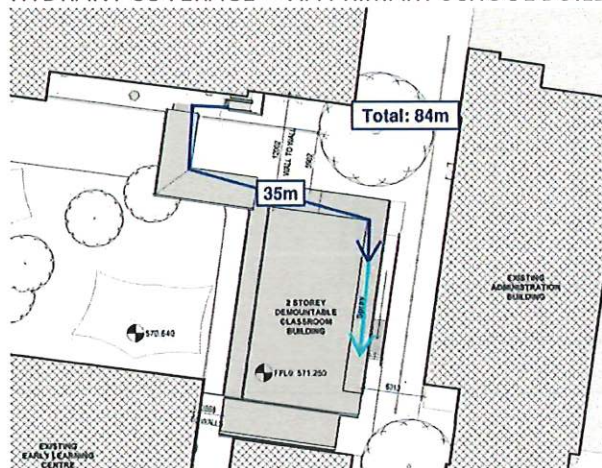
FIGURE 15:
HYDRANT COVERAGE – SITE HYDRANTS



Source: SQC and Ignis Solutions

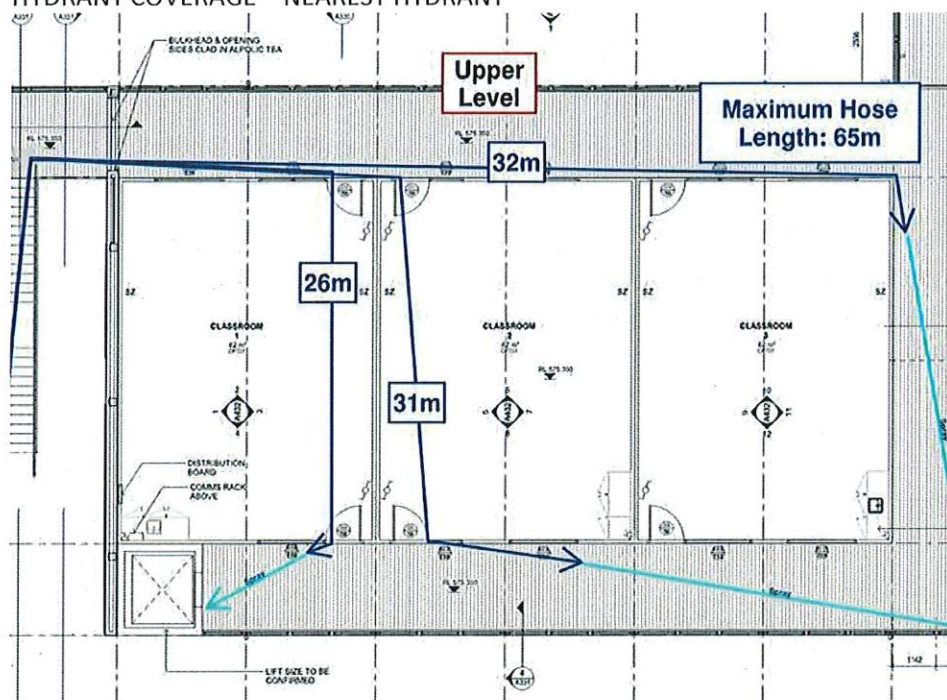
While coverage to the proposed building requires three lengths of fire hose, the area requiring extended coverage is limited to balcony. An existing Performance Solution for this site has been implemented as part of Ignis Solutions Fire engineering Report 4074 dated 09 September 2016 for the use of three lengths of fire hose to provide coverage to the primary school buildings. Using the walkway from the primary school, 84m of hose is required to reach the most disadvantageous point of the proposed building and thus is covered by the scope of the existing Performance Solution. Furthermore, only 65m of coverage is required from an alternate hydrant when not going through the primary school.

FIGURE 16:
HYDRANT COVERAGE – VIA PRIMARY SCHOOL BUILDING



Source: SQC and Ignis Solutions

FIGURE 17:
HYDRANT COVERAGE – NEAREST HYDRANT



Source: SQC and Ignis Solutions

3.3 Required Fire Safety Measures

In addition to any requirement under the Deemed-to-Satisfy provisions the performance solution fire safety measures required are:

- Automatic fire detection and alarm system in accordance with AS 1670.1.
- Future school expansion is to maintain the 6m separation of this building.

3.4 Evaluation Summary

In the opinion of Ignis Solutions, the assessment has demonstrated that the proposed Performance Solution for the rationalisation of the external wall FRLs is suitable and as such satisfies BCA Performance Requirement CP1 and CP2.

4 FIRE DETECTION AND ALARM SYSTEM

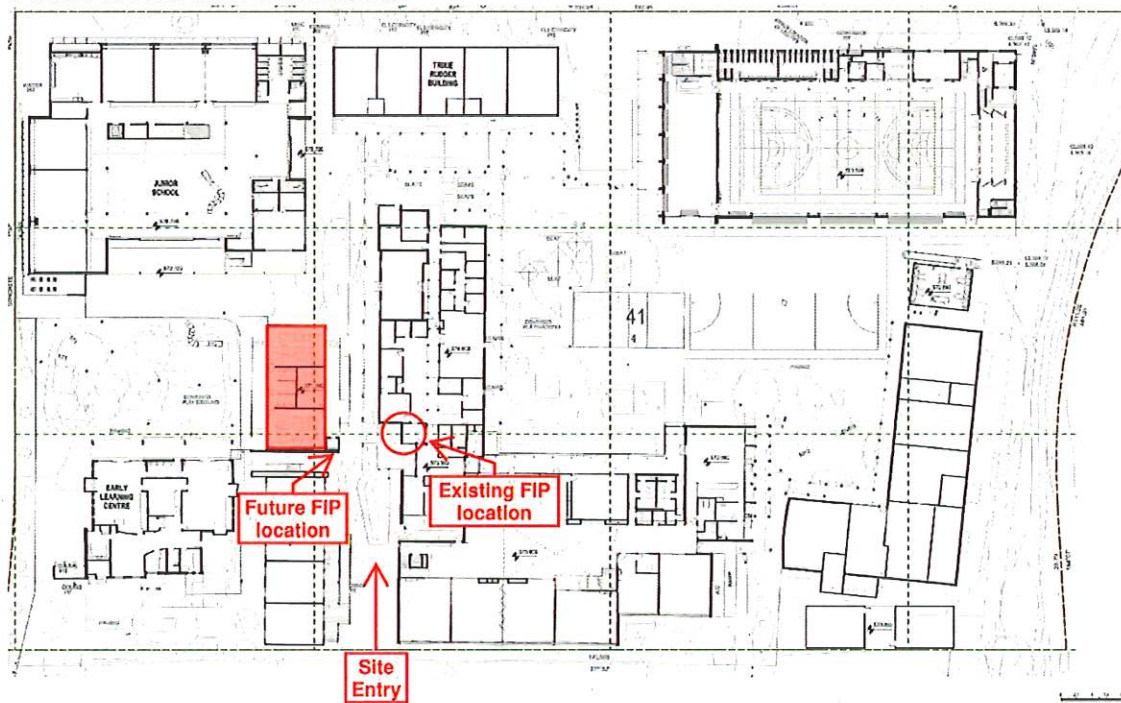
4.1 Brief of Proposed Performance Solution

The proposed building is to comply with the Building Code of Australia 2019 Amendment One, which references to AS 1670.1:2018. Clause 2.3 of AS 1670.1:2018 permits non-continuous floor areas being a single additional zone provided the building is less than 2,000m² of contiguous floor, less than 10m away, the longest dimension not exceed 100m and is to be confined to a single storey.

The proposed building is two storey and as such is non-compliant with Clause 2.3 of AS1670.1:2018. It is proposed that the building be monitored by the existing FIP located in the administration building as marked below.

FIGURE 18:

LAYOUT OF PROPOSED DEVELOPMENT



Source: SQC and Ignis Solutions

4.1.1 BCA Deemed-to-Satisfy

BCA Specification E2.2a Clause 4 requires a smoke detection system to be installed in accordance with AS 1670.1. Specification A1.3 of the BCA references AS 1670.1:2018. See below:

FIGURE 19:

NCC – VOL 1 – SPECIFICATION E2.2A CLAUSE 4

4. Smoke detection system

- (a) All Class 2 - 9 buildings—
 - (i) A smoke detection system must—
 - (A) subject to (b) and (c), comply with AS 1670.1; and
 - (B) activate a building occupant warning system in accordance with Clause 7.

Source: ABCB NCC Volume One – Building Code of Australia 2019 Amendment One

FIGURE 20:

NCC – VOL 1 – Schedule 4 Referenced documents Table 1

AS 1670 Part 1	2018	Fire detection, warning, control and intercom systems — System design, installation and commissioning — Fire See Note 4
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Source: ABCB NCC Volume One – Building Code of Australia 2019 Amendment One

4.1.2 Intent of BCA Deemed-to-Satisfy Clause

The Guide to the BCA is indented as a reference manual to provide clarification to the BCA and should be read in conjunction with the BCA. The Guide to the BCA describes the intent of Clause E1.4 as:

FIGURE 21:

NCC – GUIDE TO VOL 1 – SPECIFICATION E2.2A

2 Type of system

Intent
To specify compliance requirements for required automatic smoke detection and alarm systems.

Source: ABCB NCC Volume One, Guide – Building Code of Australia 2019 Amendment One

4.1.3 BCA Performance Requirement

The relevant BCA Performance Requirement is EP4.3 as detailed below:

FIGURE 22:

NCC – VOL 1 – PERFORMANCE REQUIREMENT EP4.3

EP4.3 Emergency warning and intercom systems

To warn occupants of an emergency and assist evacuation of a building, an emergency warning and intercom system must be provided, to the degree necessary, appropriate to—

- (a) the *floor area* of the building; and
- (b) the function or use of the building; and
- (c) the height of the building.

Source: ABCB NCC Volume One – Building Code of Australia 2019 Amendment One

4.1.4 Relevant Element of Performance Requirement

The entirety of the Performance Requirement EP4.3 is relevant.

4.1.5 Meeting the Performance Requirement

The Performance Requirement will be satisfied by A2.1 (3): a combination of (1) and (2) where (1) is a Performance Solution and (2) is a Deemed-to-Satisfy Solution.

4.1.6 Assessment Method

BCA Clause A2.2 (2)(b)(ii) Other Verification Methods accepted by appropriate authority that show compliance with the relevant Performance Requirements.

4.1.7 Methodology

The following methodologies will be applied to the evaluation:

- | | | |
|----------------------------------------------|-------------------------------------------------|---------------------------------------------------|
| <input checked="" type="checkbox"/> Absolute | <input type="checkbox"/> Quantitative | <input checked="" type="checkbox"/> Deterministic |
| <input type="checkbox"/> Comparative | <input checked="" type="checkbox"/> Qualitative | <input type="checkbox"/> Probabilistic |

Absolute approach

As outlined in the International Fire Engineering Guideline an absolute approach is typically when an evaluation is carried out on an absolute basis, the results of the analysis of the trial design are matched, using the agreed acceptance criteria against the objectives or performance requirements without comparison to deemed-to-satisfy or prescriptive or “benchmark” designs.

Qualitative approach

A qualitative approach refers to descriptions or distinctions based on a quality or characteristic rather than on a quantity or measures value. The qualitative approach includes structured arguments to demonstrate compliance.

Deterministic approach

A deterministic approach is a methodology based on physical relationships derived from scientific theories and empirical results that for a given set of conditions will always produce the same outcome.

4.1.8 Acceptance Criteria

The acceptance criteria for this performance solution is that the proposed fire detection and alarm system for the building remains conducive for the buildings ECO as well as ACT F&R.

4.1.9 Identified Hazard

The potential hazard is that a fire may occur in an area, occupants and ACTF&R are not able to locate or become aware based on the coordination and remote aspect of the building.

4.1.10 IFEG Sub-system

The performance solution falls within Sub-system D: Fire Detection, Warning and Suppression. Sub-system D is used to analyse detection, warning and suppression for fires. This process enables estimates to be made of the effectiveness of suppression.

4.2 Performance Evaluation

The BCA Dts provisions do not require a single storey school building (Class 9b) with a total floor area of less than 1,000m² to be provided with a fire detection and alarm system.

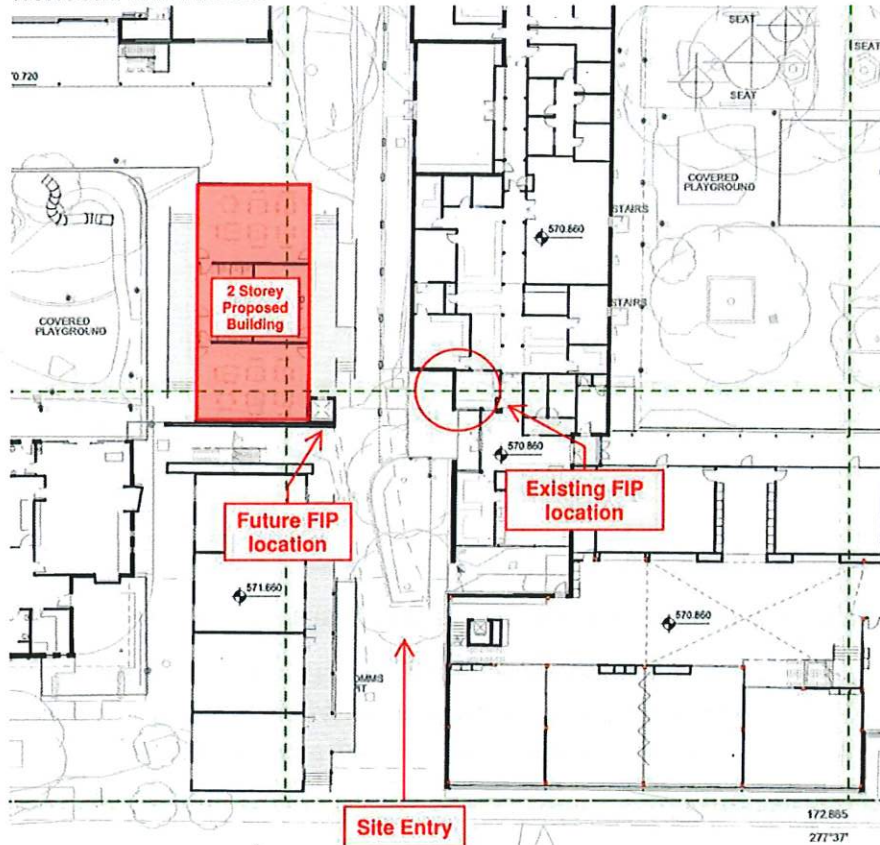
Performance Requirement EP4.3 requires that to warn occupants of an emergency and assist evacuation of a building, an emergency warning and intercom system must be provided, to the degree necessary, appropriate to – the floor area, the function or use and the height of the building.

The proposed building is to comply with the Building Code of Australia 2019 Amendment One, which references to AS 1670.1:2018. Clause 2.3 of AS 1670.1:2018 permits non-continuous floor areas being a single additional zone provided the building is less than 2,000m² of contiguous floor, less than 10m away, the longest dimension not exceed 100m and is to be confined to a single storey.

The proposed building is two storey and as such is non-compliant with Clause 2.3 of AS1670.1:2018. The FIP is located in the administration building as marked below.

It is proposed that the building be monitored by the existing FIP located in the administration building as marked below.

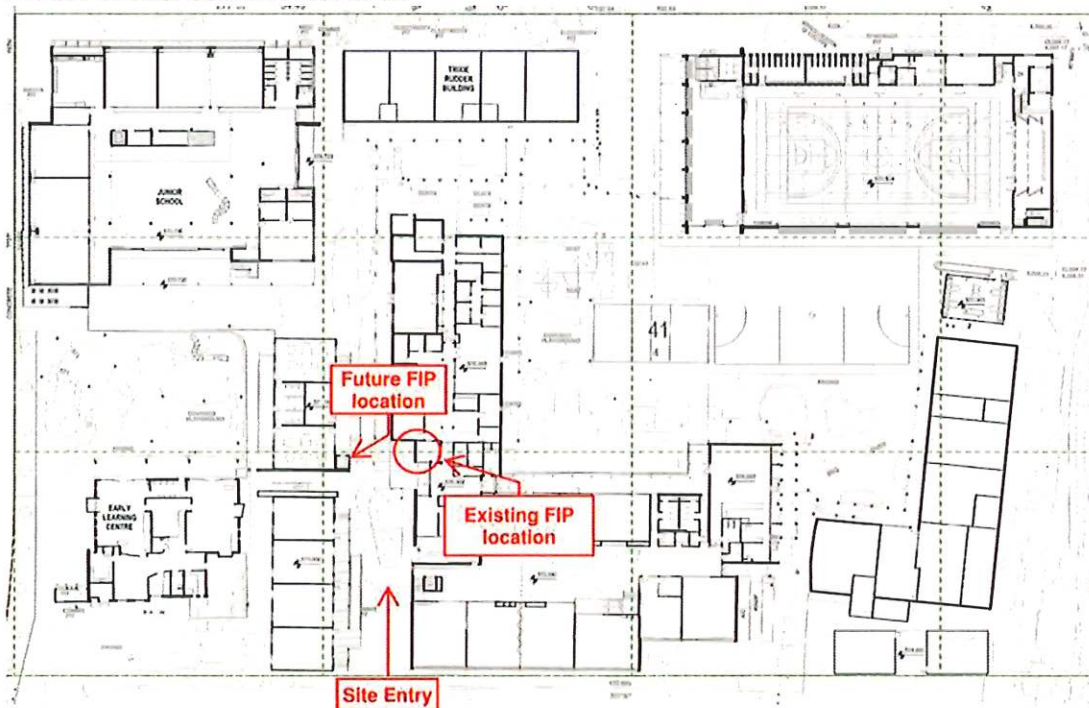
FIGURE 23:
NONCOMPLIANT ISSUES



Source: SQC and Ignis Solutions

As the new building consists of more than one storey, it cannot be considered as a single system and under the DtS requirements, each building is required to have a separate system with its own FIP and monitoring system. This requirement is not conducive to the buildings ECO or ACT F&R operational needs.

FIGURE 24:
LAYOUT OF PROPOSED DEVELOPMENT



Source: SQC and Ignis Solutions

The function of the building remains within the parameters of the BCA DtS provisions.

Based on the nature of the site, the diverse array of the buildings and the consistency of the schools established fire safety measures, the capacity for the proposed system to maintain compliance with the BCA Performance Requirement is considered to occur under the proposed design.

4.3 Required Fire Safety Measures

Independent of the BCA DtS provisions, which remain required, the following fire safety measures are required in relation to this performance solution:

- It is proposed that the new portable building be monitored by the existing FIP located in the administration building with the building separated into detection zones as appropriate.

4.4 Evaluation Summary

In the opinion of Ignis Solutions, the assessment has demonstrated that the proposed Performance Solution for the fire detection and alarm system is suitable as such satisfies BCA Performance Requirement EP4.3.

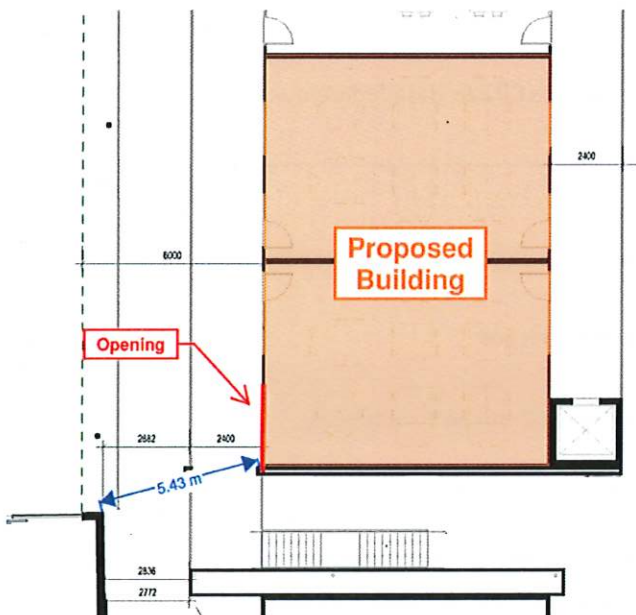
5 PROTECTION OF OPENINGS

5.1 Brief of Proposed Performance Solution

Clause C3.2 (a)(iii) of the BCA requires that openings in external walls must be protected if the distance from the opening to another building on the allotment is less than 6m.

The building has openings that are within 6m of another building on the allotment, including windows. It is proposed to allow these openings to remain unprotected. The openings are on both storeys of the proposed structure and are parallel to the adjacent building with an offset of approximately 1.2m.

FIGURE 25:
OPENING WITHIN 6M OF ADJACENT BUILDING



Source: SQC Architecture and Ignis Solutions

5.1.1 BCA Deemed-to-Satisfy

BCA Clause C3.2 details the protection of openings in external walls. See below:

FIGURE 26:

NCC – VOL 1 – CLAUSE C3.2

C3.2 Protection of openings in external walls

Openings in an *external wall* that is *required* to have an FRL must—

- (a) if the distance between the opening and the *fire-source feature* to which it is exposed is less than—
 - (i) 3 m from a side or rear boundary of the allotment; or
 - (ii) 6 m from the far boundary of a road, river, lake or the like adjoining the allotment, if not located in a *storey* at or near ground level; or
 - (iii) 6 m from another building on the allotment that is not Class 10, be protected in accordance with C3.4 and if wall-wetting sprinklers are used, they are located externally; and
- (b) if *required* to be protected under (a), not occupy more than 1/3 of the area of the *external wall* of the *storey* in which it is located unless they are in a Class 9b building used as an *open spectator stand*.

Source: ABCB NCC Volume One – Building Code of Australia 2019 Amendment One

5.1.2 Intent of BCA Deemed-to-Satisfy Clause

The Guide to the BCA is indented as a reference manual to provide clarification to the BCA and should be read in conjunction with the BCA. The Guide to the BCA describes the intent of Clause C3.2 as:

FIGURE 27:

NCC – GUIDE TO VOL 1 – CLAUSE C3.2

C3.2 Protection of openings in external walls

Intent

To require any opening in external walls to be protected, only where the wall is required to have an FRL, to prevent the spread of fire from the boundary of an adjoining allotment, or one building to another building on the same allotment.

Source: ABCB NCC Volume One, Guide – Building Code of Australia 2019 Amendment One

5.1.3 BCA Performance Requirement

The relevant BCA Performance Requirement is CP2 as detailed below:

FIGURE 28:

NCC – VOL 1 – PERFORMANCE REQUIREMENT CP2

CP2 Spread of fire

- (a) A building must have elements which will, to the degree necessary, avoid the spread of fire—
- (i) to *exits*; and
 - (ii) to *sole-occupancy units* and *public corridors*; and

Application:

CP2(a)(ii) only applies to a Class 2 or 3 building or Class 4 part of a building.

- (iii) between buildings; and
 - (iv) in a building.
- (b) Avoidance of the spread of fire referred to in (a) must be appropriate to—
- (i) the function or use of the building; and
 - (ii) the *fire load*; and
 - (iii) the potential *fire intensity*; and
 - (iv) the *fire hazard*; and
 - (v) the number of *storeys* in the building; and
 - (vi) its proximity to *other property*; and
 - (vii) any active *fire safety systems* installed in the building; and
 - (viii) the size of any *fire compartment*; and
 - (ix) *fire brigade* intervention; and
 - (x) other elements they support; and
 - (xi) the *evacuation time*.

Source: ABCB NCC Volume One – Building Code of Australia 2019 Amendment One

5.1.4 Relevant Element of Performance Requirement

The entirety of the Performance Requirement CP2 detailed above is relevant.

5.1.5 Meeting the Performance Requirement

The Performance Requirement will be satisfied by A2.1 (3): a combination of (1) and (2) where (1) is a Performance Solution and (2) is a Deemed-to-Satisfy Solution.

5.1.6 Assessment Method

BCA Clause A2.2 (2)(b)(ii) Other Verification Methods accepted by appropriate authority that show compliance with the relevant Performance Requirements.

5.1.7 Methodology

The following methodologies will be applied to the evaluation:

- | | | |
|----------------------------------------------|--------------------------------------------------|---------------------------------------------------|
| <input checked="" type="checkbox"/> Absolute | <input checked="" type="checkbox"/> Quantitative | <input checked="" type="checkbox"/> Deterministic |
| <input type="checkbox"/> Comparative | <input checked="" type="checkbox"/> Qualitative | <input type="checkbox"/> Probabilistic |

Absolute approach

As outlined in the International Fire Engineering Guideline an absolute approach is typically when an evaluation is carried out on an absolute basis, the results of the analysis of the trial design are matched, using the agreed acceptance criteria against the objectives or performance requirements without comparison to deemed-to-satisfy or prescriptive or “benchmark” designs.

Quantitative approach

A quantitative approach refers to an analysis that involves numerical evaluation of an identified process. The quantitative approach includes detailed mathematical and engineering calculations.

Qualitative approach

A qualitative approach refers to descriptions or distinctions based on a quality or characteristic rather than on a quantity or measures value. The qualitative approach includes structured arguments to demonstrate compliance.

Deterministic approach

A deterministic approach is a methodology based on physical relationships derived from scientific theories and empirical results that for a given set of conditions will always produce the same outcome.

5.1.8 Acceptance Criteria

The acceptance criteria for this performance solution is that the radiation received and emitted satisfies verification method CV1 and therefore BCA Performance Requirement CP2 where the fire source feature is not the adjacent block.

5.1.9 Identified Hazard

The potential hazard is that a fire may spread from one allotment to the next without appropriate separation.

5.1.10 IFEG Sub-system

The performance solution falls within Sub-System C: Fire Spread and Impact and Control. Sub-system is used to analyse the spread of fire beyond an enclosure, the impact fire might have on the structure and how the spread and impact might be controlled.

5.2 Performance Evaluation

Clause C3.2 (a)(iii) of the BCA requires that openings in external walls must be protected if the distance from the opening to another building on the allotment is less than 6m.

The building has openings that are within 6m of another building on the allotment, including windows. It is proposed to allow these openings to remain unprotected. The openings are on both storeys of the proposed structure and are parallel to the adjacent building with an offset of approximately 1.2m.

Mechanism of Fire Spread

There are essentially three main modes of heat transfer in relation to fire spread via openings:

- a. Conduction related to the transfer of heat associated with solids and the thermal conductivity of the materials;
- b. Convection related to the movement of hot air; and
- c. Radiation related to openings acting as radiating bodies and emitting thermal radiation at elevated temperatures.

The Guide to the BCA¹ states that 'radiation is the main mechanism for heat and fire spread between buildings'. Other forms for heat transfer such as conduction and convection is unlikely due to the buildings being open to the atmosphere and the physical separation between buildings (including the masonry wall as the barrier). In terms of fire spread via radiation, there are many factors that contribute to the severity of thermal radiation emitted from an unprotected opening such as:

- Distance between the building and the boundary.
- Provision of active fire protection systems within the building
- Size and shape of the openings.
- The Temperature of a fire, which is determined by the type of materials involved in the fire and fire size.
- Emissivity of a source, which depends whether the window is drencher protected, has fire resistant properties or features unprotected glazing.

The following assessment considers the potential for fire spread between the subject building and the adjoining property based on the orientation and construction of the existing building and radiant heat exposure from unprotected openings.

The Guide to the BCA² discusses a range of radiant heat values necessary to ignite common building materials. For openable windows, there is a potential for sparks or embers to pass through opening and ignite the curtain materials. Piloted ignition takes place when the pyrolysis vapours and gases are ignited by a localised hot object or energy source such as a flame or spark, whereas non-piloted ignition takes place when the temperature of the pyrolysis vapours and gases is sufficient to ignite the mixture of oxygen and pyrolysis products³.

In a timber or aluminium frame with 3 mm float glass, cracking of the glass⁴ occurs at 4 to 8 kW/m², glass fall out⁵ at 9 – 50 kW/m² and non-piloted ignition of timber⁶ at 25 kW/m². Ignition of curtain materials through an open, or cracked window, is taken as occurring at 10 kW/m² in the presence of a spark and 20 kW/m² otherwise⁷.

Based on the above, piloted ignition is considered to occur at 10 kW/m² and non-piloted ignition at 20 kW/m². This is consistent with the BCA DtS provisions which allows an unprotected opening at 3 m from a boundary and BCA Verification Method CV1, which requires a building to be able to withstand 20 kW/m² at a boundary setback of 3 m. Therefore, a radiant heat flux of 20 kW/m² was utilised as the acceptance criteria for the ignition of building contents within the building envelope.

Fire Spread from Subject Building to Adjoining Building

The proposed fire scenario relevant to this assessment involves a fire occurring within the subject building impacting on the neighbouring allotment. Based on the nominated fire scenario, the following evaluation investigates the conditions expected in the subject building and its impact on the adjoining properties.

For the subject building, fire growth will be governed by the type of fire protection system installed and the ability for either occupants or fire fighters to intervene to control the fire and limit further fire spread. The most probable fire scenario for the subject building involves a flaming fire.

A fully developed or flashover fire represents a severe scenario, based on the building being without an automatic sprinkler system. Flashover conditions are possible within the enclosure of fire origin, given the size of the rooms, combustible furnishings contained therein and the available ventilation through the external openings. Such conditions, resulting from flashover, could include in the room temperature reaching 900-1,000°C⁸ within the enclosure of fire origin and glass breakage to the external openings.

Depending on the temperature profile experienced in the material, standard float plate glass without the protection of a drencher system can be prone to failure. This includes failure from direct exposure in a localised manner. Small-scale tests have estimated the temperature of plain float glass at which glass breakage occurs to vary from 150-175°C (based on uneven heating resulting in temperature gradients in the glass) with radiation exposure between 10-40 kW/m² from the fire exposed side⁹. In terms of non-localised exposure via convective heat transfer, experiments have demonstrated that float glass can withstand up to 300-500°C gas temperature in the room of fire origin. The temperature at which glass fails is also associated with the onset of a flashover condition and studies have approximated this phenomenon when the ceiling temperatures of 600°C¹⁰ or having a floor irradiance of 20kW/m². Adopting a conservative approach, in this case consideration is given to a fully-developed compartment fire that could result in a temperature well in excess of that capable of causing glass breakage in the subject openings.

Radiant heat calculations were undertaken to determine the radiant heat flux that could be received at the neighbouring building when exposed to a fire within the subject building.

Approved Document B – Fire Safety, part of British Building Regulations 2002¹¹ provides a methodology for calculating an appropriate set back from openings in external walls from unprotected areas. This is based on research documented in BRE Fire Research Technical Paper No. 5, performed by Margaret Law. As specified in Approved Document B, a radiant heat intensity of 84 kW/m² could be assumed for residential, office, assembly and recreation areas and 168 kW/m² for commercial, industrial, storage and other non-residential areas. The concerned opening being on the Class 2 part of the building (residential), a radiant heat intensity of 84 kW/m² was utilized for the radiant heat assessment. This corresponds to a panel temperature of ~830°C assuming an emissivity of 1.

In accordance with CV1, a fire event from the building is not to cause heat flux in excess of those set out in column 2 of table CV1 at the distances set out in column 1. Equally, in accordance with CV1(b), when located at the distances from the allotment boundary set out in column 1, the building is to be capable of withstanding the heat flux set out in column 2.

FIGURE 29:

CALCULATION OF RADIATION TO ADJACENT BOUNDARY FROM SUBJECT BUILDING

Table CV1

Column 1	Column 2
Location	Heat flux (kW/m ²)
On boundary	80
1 m from boundary	40
3 m from boundary	20
6 m from boundary	10

Source: ABCB NCC Volume One – Building Code of Australia 2019 Amendment One

It is significant to note that the BCA DtS provision C3.2 considers that openings are at least 3m from the boundary or 6m from adjacent buildings do not require any protection. Based on table CV1, this equates to a radiant heat flux level received of 20 kW/m² and is the maximum radiant heat flux level at which the BCA DtS provisions considers as acceptable without protection for both openings and walls.

AS 3959 – 2018 outlines fire safety measures for unprotected windows to withstand a received radiation and associated BAL requirement. These measures relate to the grade of glass, protection for any openings and frame construction as detailed below. Applying these fire safety measures to the glazing within 3m of the site boundary will have the capacity to withstand the calculated radiation.

TABLE 5:

FIRE SAFETY MEASURES FOR WINDOWS SUBJECTED TO VARIOUS RADIATION

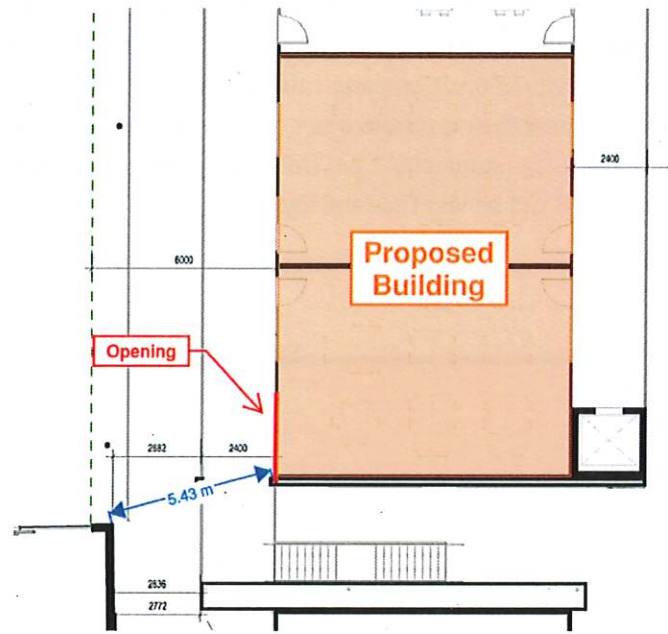
Radiation received – upper limit (kW/m ²)	Glazing	Openings	Frame
12.5	Grade A safety, 4mm thick	Non-openable or radiation mesh	Metal
19	Grade A safety, 5mm thick	Non-openable or radiation mesh	Metal
29	Grade A safety, 5mm thick	Non-openable or radiation mesh	Metal
40	Grade A safety, 6mm thick	Non-openable or radiation mesh	Metal

Source: AS 3959 -2018: Construction of buildings in bushfire-prone areas

Openings on the Subject Building

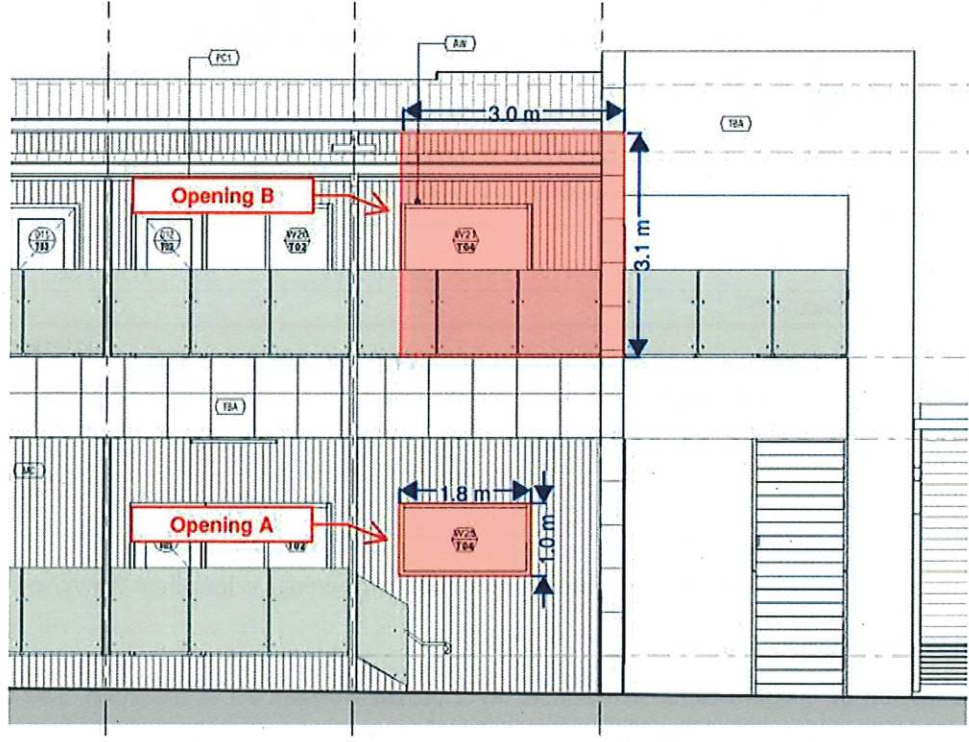
There are two openings that will be examined within this Performance Solution, one on each storey of the proposed building. The lower level has a window facing the adjacent Early Learning Centre. Despite being offset by approximately 2.5m, it is still within 6m and as such requires protection. The upper storey of the proposed building is not required to have an FRL and as such the entire section of the wall surrounding the window is to be treated as an opening. Although the adjacent Early Learning Centre is only single storey, the openings on both floors of the proposed building will be considered.

FIGURE 30:
OPENING WITHIN 6M OF THE ADJACENT BUILDING



Source: SQC Architecture and Ignis Solutions

FIGURE 31:
MEASUREMENTS OF SUBJECT OPENINGS



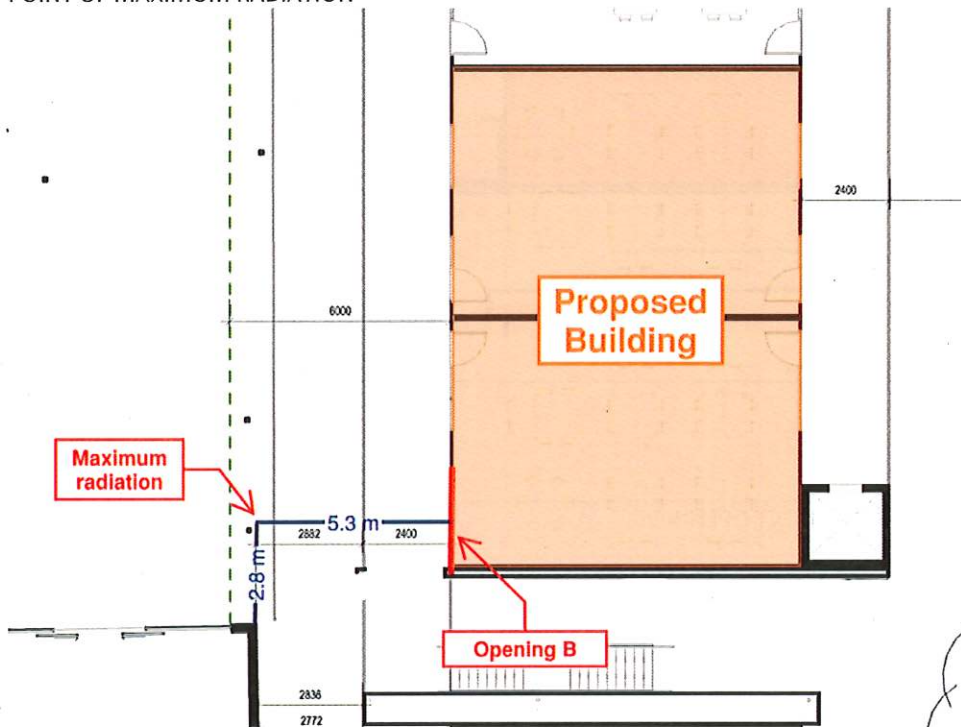
Source: SQC Architecture and Ignis Solutions

Radiation to boundary

Based on the radiation calculations provided in Appendix B, the radiant heat flux emitted to the adjoining building has been calculated and is detailed in the table below. The calculations were based on a panel temperature of ~1000°C assuming an emissivity of 0.9. Complete calculations can be found in Appendix C. The radiation received has been calculated at the maximum point directly parallel with the openings. As the corner of the Early Learning Centre is approximately 2.8m from the maximum point of radiation along the parallel axis, the radiation received will be less than the figures below.

FIGURE 32:

POINT OF MAXIMUM RADIATION



Source: SQC Architecture and Ignis Solutions

TABLE 6:

RADIANT HEAT FLUX EMITTED

Opening	Distance to adjacent building (m)	Height of Emitter (m)	Width of emitter (m)	Radiation received at adjacent building (kW/m ²)
Opening A (0°)	5.3	1.0	1.8	2.67
Opening B (0°)	5.3	3.1	3.0	12.72

Source: Ignis Solutions

As seen, the radiation received on the boundary from all the openings is less than 80kW/m².

Radiation to openings

The transmission of incident radiation reduces as it passes through an air medium. The verification methods within the BCA reflect this. The building structure must have sufficient resistance to prevent fire spread at the rates detailed in column 2 of table CV1 of the BCA. Column 2 sets specific radiation values at given distances based on a direct parallel relationship. The table details a reduced radiation level the further away the distance is from the boundary.

The following table details the radiation the subject opening is exposed to, from the site boundary.

TABLE 7:

RADIANT HEAT FLUX RECEIVED

Opening	Distance to adjacent building (m)	Height of Emitter (m)	Width of emitter (m)	Radiation received at subject opening (kW/m ²)
Opening A (0°)	5.3	1.0	1.8	2.45
Opening B (0°)	5.3	3.1	3.0	11.25

Source: Ignis Solutions

As seen, the radiation received on the perpendicular subject openings from the boundary are less than 13kW/m². These openings will require no protection.

5.3 Required Fire Safety Measures

Independent of the BCA DtS provisions, which remain required, the following fire safety measures are required in relation to this performance solution:

- It is proposed for the openings in the external walls that are within 6m of the adjacent Early Learning Centre to remain unprotected.

5.4 Evaluation Summary

In the opinion of Ignis Solutions, the evaluation has demonstrated that the proposed Performance Solution for the protection of openings does not increase the risk of fire spread and as such satisfies BCA Performance Requirement CP2.

6 DISTANCE OF TRAVEL

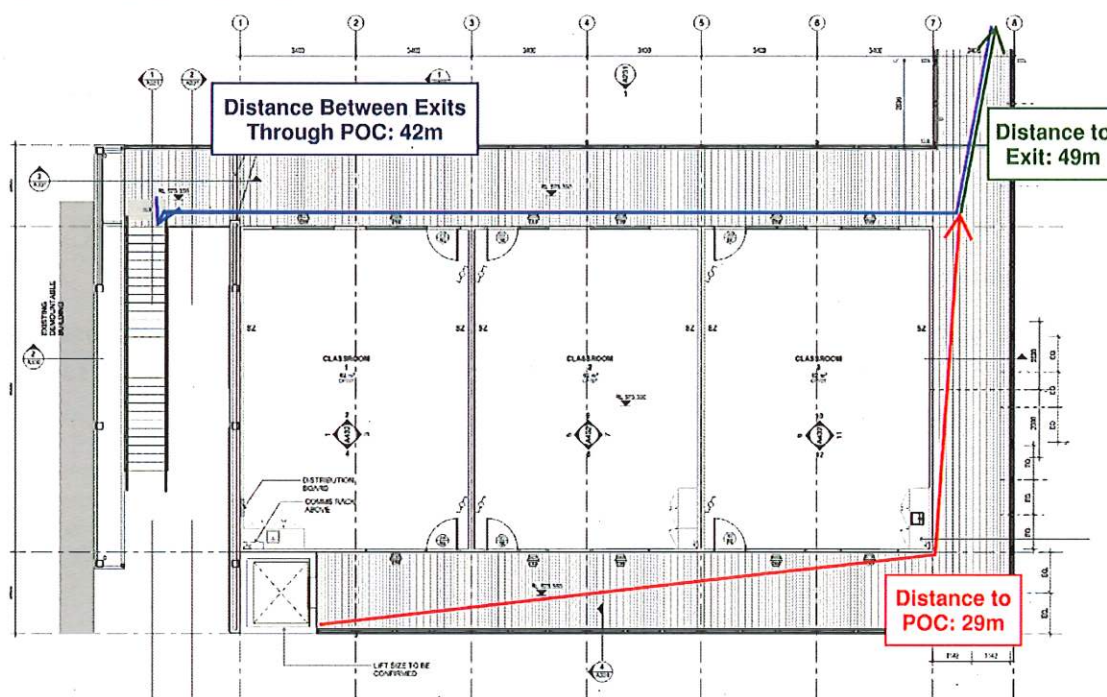
6.1 Brief of Proposed Performance Solution

Clause D1.4 of the BCA requires that the travel distance in a Class 5, 6, 7, 8 or 9 building be no more than 20m from an exit or to a point of choice of two exits, in which case the maximum distance to one of those exits must not exceed 40m.

It is proposed for the travel from the balcony to be up to approximately 29m to a point of choice in lieu of 20m and up to 49m to an exit in lieu of 40m.

FIGURE 33:

TRAVEL DISTANCE FROM THE BALCONY



Source: SQC Architecture and Ignis Solutions

6.1.1 BCA Deemed-to-Satisfy Basis

BCA Clause D1.4(c)(i) requires that the travel distance in a Class 5, 6, 7, 8 or 9 building be no more than 20m from an exit or a point from which travel in different directions to two exits is available, in which case the maximum distance to one of those exits must not exceed 40m.

FIGURE 34:

NCC – VOL 1 – CLAUSE D1.4 (PART)

D1.4 Exit travel distances

(c) Class 5, 6, 7, 8 or 9 buildings — Subject to (d), (e) and (f)—

- (i) no point on a floor must be more than 20 m from an *exit*, or a point from which travel in different directions to 2 *exits* is available, in which case the maximum distance to one of those *exits* must not exceed 40 m; and
- (ii) in a Class 5 or 6 building, the distance to a single *exit* serving a *storey* at the level of access to a road or *open space* may be increased to 30 m.

Source: ABCB NCC Amendment One Volume One – Building Code of Australia 2019

6.1.2 Intent of BCA Deemed-to-Satisfy Clause

The Guide to the BCA is indented as a reference manual to provide clarification to the BCA and should be read in conjunction with the BCA. The Guide to the BCA describes the intent of Clause D1.4 as:

FIGURE 35:

NCC – GUIDE TO VOL 1 – CLAUSE D1.4

Intent
To maximise the safety of occupants by enabling them to be close enough to an exit to safely evacuate.

Source: ABCB NCC Amendment One Volume One, Guide – Building Code of Australia 2019

6.1.3 BCA Performance Requirement

The relevant BCA Performance Requirement is DP4 as detailed below:

FIGURE 36:

NCC – VOL 1 – PERFORMANCE REQUIREMENT DP4

DP4 Exits

Exits must be provided from a building to allow occupants to evacuate safely, with their number, location and dimensions being appropriate to—

- (a) the travel distance; and
- (b) the number, mobility and other characteristics of occupants; and
- (c) the function or use of the building; and
- (d) the height of the building; and
- (e) whether the *exit* is from above or below ground level.

Source: ABCB NCC Amendment One Volume One – Building Code of Australia 2019

6.1.4 Relevant Element of Performance Requirement

The relevant element of performance requirement DP4 is (a):

Exits must be provided from a building to allow occupants to evacuate safely, with their number, location and dimensions being appropriate to (a) the travel distance.

6.1.5 Meeting the Performance Requirement

The Performance Requirement will be satisfied by A2.1 (3): a combination of (1) and (2) where (1) is a Performance Solution and (2) is a Deemed-to-Satisfy Solution.

6.1.6 Assessment Method

BCA Clause A2.2 (b)(ii) Other Verification Methods accepted by appropriate authority that show compliance with the relevant Performance Requirements.

6.1.7 Methodology

The following methodologies will be applied to the evaluation:

- | | | |
|----------------------------------------------|-------------------------------------------------|---------------------------------------------------|
| <input checked="" type="checkbox"/> Absolute | <input type="checkbox"/> Quantitative | <input checked="" type="checkbox"/> Deterministic |
| <input type="checkbox"/> Comparative | <input checked="" type="checkbox"/> Qualitative | <input type="checkbox"/> Probabilistic |

Absolute approach

As outlined in the International Fire Engineering Guideline an absolute approach is typically when an evaluation is carried out on an absolute basis, the results of the analysis of the trial design are matched, using the agreed acceptance criteria against the objectives or performance requirements without comparison to deemed-to-satisfy or prescriptive or “benchmark” designs.

Qualitative approach

A qualitative approach refers to descriptions or distinctions based on a quality or characteristic rather than on a quantity or measures value. The qualitative approach includes structured arguments to demonstrate compliance.

Deterministic approach

A deterministic approach is a methodology based on physical relationships derived from scientific theories and empirical results that for a given set of conditions will always produce the same outcome.

6.1.8 Acceptance Criteria

The acceptance criteria for this performance solution is that the occupants are provided with sufficient warning and means to safely reach an exit such that the BCA Performance Requirement DP4 is satisfied to the degree necessary.

6.1.9 Identified Hazard

The potential hazards include the exit travel distance being too excessive and the risk of the fire safety systems not being sufficient for all the occupants who might be using the area to evacuate.

6.1.10 IFEG Sub-system

The performance solution falls within Sub-System E: Occupant Evacuation and Control. Sub-system E is used to analyse the evacuation of the occupants of a building. This process enables estimates to be made of the time required for occupants to reach a place of safety.

6.2 Performance Evaluation

Clause D1.4 of the BCA requires that the travel distance in a Class 5, 6, 7, 8 or 9 building be no more than 20m from an exit or to a point of choice of two exits, in which case the maximum distance to one of those exits must not exceed 40m.

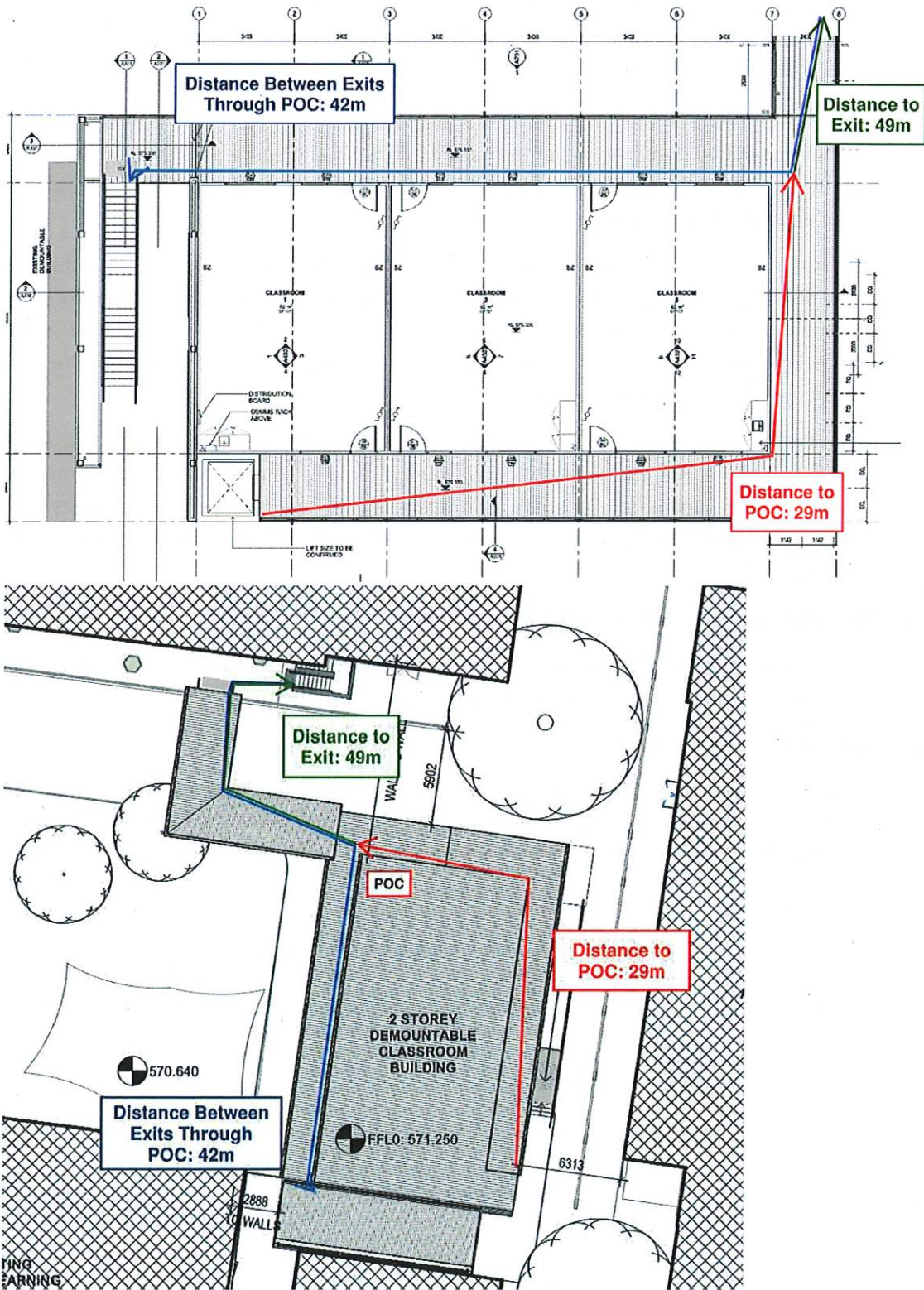
It is proposed for the travel from the balcony to be up to approximately 29m to a point of choice in lieu of 20m and up to 49m to an exit in lieu of 40m. The travel distances from the classrooms are compliant.

The Guide to the BCA is intended as a reference manual to provide clarification to the BCA and should be read in conjunction with the BCA. The Guide describes the intent of D1.4 as ‘to maximise the safety of occupants by enabling them to be close enough to an exit to safely evacuate’.

The Guide further details that ‘D1.4(c)(i) sets out the maximum travel distance in Class 5-9 buildings. The distances specified allow people to evacuate in a reasonable time, assuming that they are not asleep.’

The maximum travel distances stipulated in the BCA are notional figures. These provisions are conservative in nature as they attempt to take into account all possible design scenarios. The layout or fire safety measures within the building are not taken into account in the distance of travel nominated within the BCA as they are static for all scenarios of size, number of storeys and effective height.

FIGURE 37:
TRAVEL DISTANCE FROM THE BALCONY



Source: SQC Architecture and Ignis Solutions

Building layout

The building has two storeys with the point of maximum travel being from the upper level balcony with two exits available. The balcony is open to the air and as such visibility would not be impeded due to smoke build up in the event of a fire. The balcony also provides clear lines of sight from the point of choice to both exits.

Distance and travel time to nearest exit

Given an estimated occupant movement speed of 0.8m/s, the 9m of travel additional to the BCA limits adds 12 seconds to the travel time. Given the entire path of travel is outside, this increase of time is not expected to pose a hazard to occupants.

During the school day, the doors to the classroom are expected to be kept unlocked and as such the travel distances during these times will be within BCA limits. Should an evacuation take place when the classroom doors are locked, the occupancy of the balcony is expected to be minimal and as such the queue time will not factor into the total evacuation time. The BCA figures are determined with a queue time of up to 100 seconds for each 1m wide exit.

While the travel distance to a point of choice and distance to an exit are greater than is allowed for in Clause D1.4 of the BCA, the distances between exits remains compliant. This factor combined with the existence of alternative compliant paths during school opening hours and low occupancy numbers mean that the increased travel distance will not pose an increased risk to inhabitants in the event of an evacuation.

6.3 Required Fire Safety Measures

Independent of the BCA DtS provisions, which remain required, no additional fire safety measures are required in relation to this performance solution.

6.4 Evaluation Summary

In the opinion of Ignis Solutions, the assessment has demonstrated that the proposed Performance Solution for travel distance from the balcony of the proposed building is suitable and does not limit the capacity for occupant evacuation and as such satisfies BCA Performance Requirement DP4.

Appendix

A

fire engineering brief detail

A FIRE ENGINEERING BRIEF

A.1 Rationalisation of FRLs

Brief	<ul style="list-style-type: none"> • Clause C2.2 of the BCA details that a Class 9 building with a rise in storeys of 2 is to be of Type B construction. • Table 4 of Specification C1.1 details the FRL of external wall elements for Type B construction. • The subject building has a rise in storeys of 2 and external walls located approximately 3m from the nearest building/fire source feature. • It is proposed for the external wall of the upper storey which is located within 18m of another building on the site to not have an FRL. • It is also proposed for the supporting elements of the upper floor be required to have an FRL of at least 60/60/60 in lieu of 120/120/120. • It is proposed for the fire separation of the floor to be with two layers of 13mm Fyrecheck.
BCA DtS Basis	<p>C2.2 – General Floor Area and Volume Limitations</p> <p>The minimum type of fire-resisting construction of a building is based upon the class of building and its rise in storeys. Specification C1.1 details the requirements for individual building elements for each type of construction.</p>
Intent	The intent of the related Deemed-to-Satisfy provision is to establish the minimum fire-resisting construction required for Class 2-9 buildings
Performance Requirement	CP1 – Structural capacity and CP2 – Fire spread
Meeting the Performance Requirement	BCA Provision A0.2 (c) A combination of (a) and (b) where (a) complies with the DtS and (b) formulating a performance solution.
Assessment Method	BCA Provision A0.5 (b)(ii) Verification Methods as the appropriate authority accepts for determining compliance with the Performance Requirements.
Methodology	<input checked="" type="checkbox"/> Absolute <input type="checkbox"/> Quantitative <input checked="" type="checkbox"/> Deterministic <input type="checkbox"/> Comparative <input checked="" type="checkbox"/> Qualitative <input type="checkbox"/> Probabilistic
IFEG	C – Fire Spread & Impact & Control
Acceptance Criteria	The acceptance criteria for this performance solution is that the proposed elements of the building have sufficient measures to limit fire spread such that the BCA Performance Requirements CP1 and CP2 are satisfied to the degree necessary.
Hazard	The potential hazard is that a fire incident may occur and the fire may spread beyond the compartment or building.
Strategy	<ul style="list-style-type: none"> • Number of exits • Occupant awareness and detection time • Separation to other buildings on site • structural stability and comparison to Class 5 • Hydrant coverage
Fire Safety Measures	<p>The following fire safety measure is required as part of this performance based design</p> <ul style="list-style-type: none"> • Automatic fire detection and alarm system in accordance with AS 1670.1.

A.2 Fire Detection and Alarm System

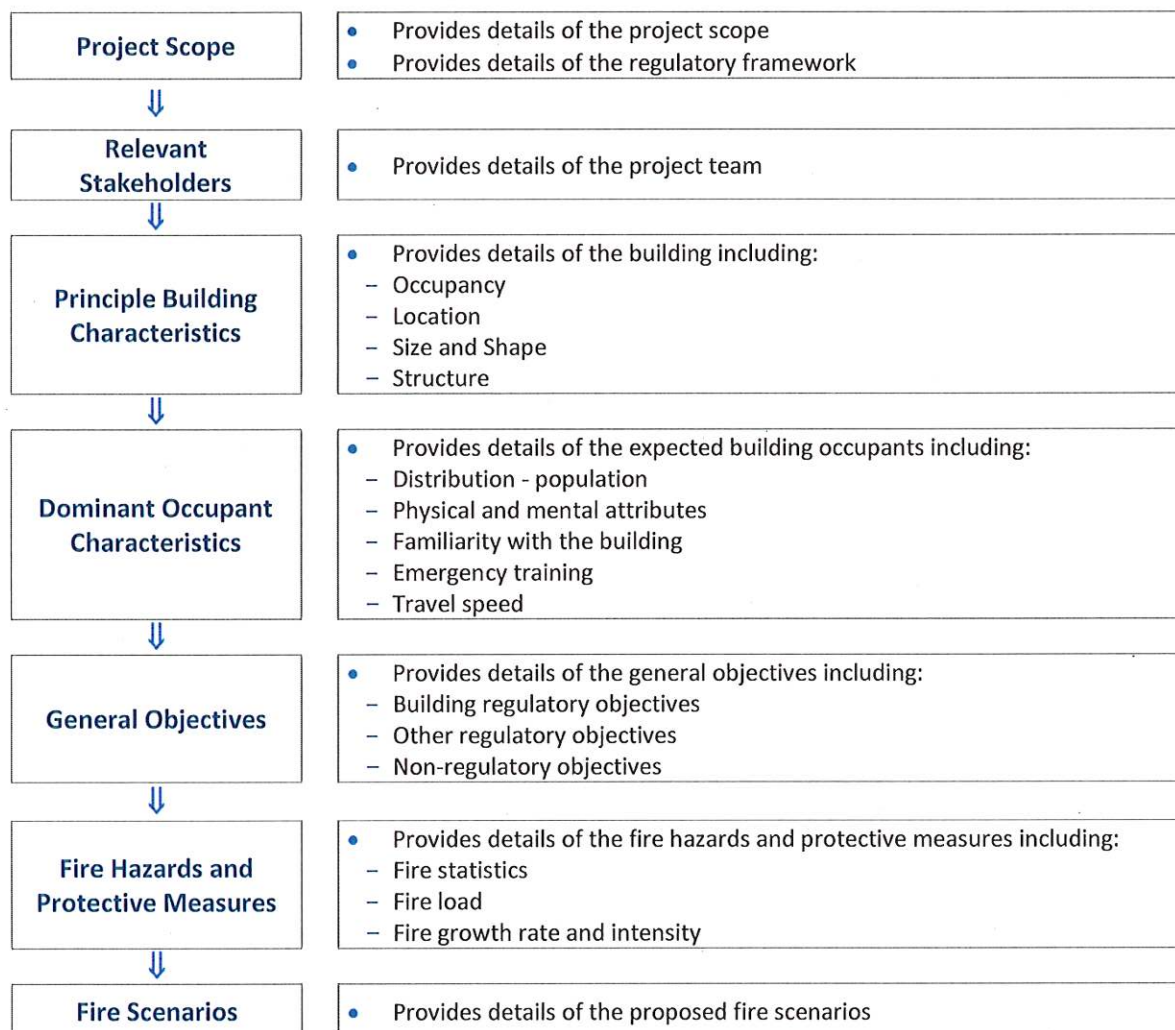
Brief	<ul style="list-style-type: none"> The proposed building is to comply with the Building Code of Australia 2019 Amendment One, which references to AS 1670.1:2018. Clause 2.3 of AS 1670.1:2018 permits non-continuous floor areas being a single additional zone provided the building is less than 2,000m² of contiguous floor, less than 10m away, the longest dimension not exceed 100m and is to be confined to a single storey. It is proposed that all buildings are to be monitored by a single FIP located in the administration building.
BCA DtS Basis	AS 1670.1:2015 Clause 2.3 Non-continuous floor areas are permitted to be a single additional zone provided the building is less than 2,000m ² , less than 10m away, the longest dimension not exceed 100m and is to be confined to a single storey
Intent	The intent of the related Deemed-to-Satisfy provision is to specify requirements for required automatic smoke detection systems.
Performance Requirement	EP4.3 – Early warning and communication
Meeting the performance requirement	BCA Provision A2.1 (3): a combination of (1) and (2) where (1) is a Performance Solution and (2) is a Deemed-to-Satisfy Solution.
Assessment method	BCA Provision A2.2 (2)(b)(ii) Other Verification Methods accepted by appropriate authority that show compliance with the relevant Performance Requirements.
Methodology	<input checked="" type="checkbox"/> Absolute <input type="checkbox"/> Quantitative <input checked="" type="checkbox"/> Deterministic <input type="checkbox"/> Comparative <input checked="" type="checkbox"/> Qualitative <input type="checkbox"/> Probabilistic
IFEG	D – Fire Detection, Warning and Suppression
Acceptance Criteria	The acceptance criteria for this performance solution is that the proposed fire detection and alarm system for the building remains conducive for the buildings ECO as well as ACT F&R.
Hazard	The potential hazard is that a fire may occur in an area, occupants and ACTF&R are not able to locate or become aware based on the coordination and remote aspect of the building.
Strategy	<ul style="list-style-type: none"> Proposed buildings and location of FIP is addressed. Separated systems are not conducive for the buildings ECO or ACT F&R operational needs.
Calculation tools	The evaluation is qualitative
Fire Safety measures	<p>The following fire safety measure is required as part of this performance based design</p> <ul style="list-style-type: none"> All buildings within the school are proposed to be served by a single FIP located in the administration.

A.4 Distance of Travel

Brief	<ul style="list-style-type: none"> Clause D1.4 of the BCA requires that the travel distance in a Class 5, 6, 7, 8 or 9 building be no more than 20m from an exit or to a point of choice of two exits, in which case the maximum distance to one of those exits must not exceed 40m. It is proposed for the travel distance from the balcony of the proposed building to be up to approximately 29m to a point of choice in lieu of 20m and 49m to an exit in lieu of 40m.
BCA Dts Basis	<p>D1.4 – Exit travel distances</p> <p>The requirements for exits are based on the Class of building. Within a Class 9b building the maximum distance to a single exit or point of choice must not be more than 20m and the maximum distance to the nearest exit is 40m.</p>
Intent	The intent of the related Deemed-to-Satisfy provision D1.4 is to maximize the safety of occupants by enabling them to be close enough to an exit to safely evacuate.
Performance Requirement	<p>DP4 – Exits</p> <p>The relevant element is (a)</p> <p>Exits must be provided from a building to allow occupants to evacuate safely, with their number, location and dimensions being appropriate to (a) the travel distance.</p>
Meeting the Performance Requirement	The Performance Requirement will be satisfied by A2.1 (3): a combination of (1) and (2) where (1) is a Performance Solution and (2) is a Deemed-to-Satisfy Solution.
Assessment Method	BCA Clause A2.2 (b)(ii) Other Verification Methods accepted by appropriate authority that show compliance with the relevant Performance Requirements.
Methodology	<input checked="" type="checkbox"/> Absolute <input type="checkbox"/> Quantitative <input checked="" type="checkbox"/> Deterministic <input type="checkbox"/> Comparative <input checked="" type="checkbox"/> Qualitative <input type="checkbox"/> Probabilistic
IFEG	E – Occupant Evacuation and Control
Acceptance Criteria	The acceptance criteria for this performance solution is that the occupants are provided with sufficient warning and means to safely reach an exit such that the BCA Performance Requirement DP4(a) is satisfied to the degree necessary.
Hazard	The potential hazard includes the exit travel distance being too excessive and the risk of the fire safety systems not being sufficient for all the occupants who might be using the area to evacuate.
Strategy	<ul style="list-style-type: none"> Description of building Low occupancy of balcony Complaint paths of travel during school hours Path of travel between exits through a point of choice is less than 60m
Calculation Tools	The evaluation is qualitative
Fire Safety Measures	No fire safety measures are proposed as part of this evaluation.

A.5 Overview

This project proposes evaluation of the nominated Performance Requirements of the National Construction Code Volume 1 - Building Code of Australia (BCA) in accordance with the methodologies defined in the International Fire Engineering Guidelines (IFEG). The intent is to provide a workable and safe fire safety strategy through a trial design. In order to develop and assess the nominated non-compliances the following process is adopted as structured by chapter 1.2 of the IFEG.



A.6 Scope of Project

The purpose of this evaluation is to satisfy the performance requirements of the National Construction Code Volume 1 - Building Code of Australia (BCA). This appendix sets down the basis on which the analysis will be undertaken (to be agreed by the stakeholders), necessary acceptance criteria, fire engineering evaluation and the recommended fire engineering requirements. The project is to evaluate the proposed building utilising both Dts and Performance Solutions across the development.

A.6.1 Contractual Content

The projects design team operate on a design and construct basis where a significant portion of the design will be undertaken by design and installation contractors. Appropriately qualified engineers will provide oversight on general areas of design and specifically qualified engineers will provide detailed design and assessment reports including structural and fire safety provisions.

A.6.2 Regulatory Framework

The regulatory framework in Australia is spread over three levels of government. These levels are:

- Federal Government; and
- State Government; and
- Local Government.

The Federal Government is responsible for the six states and two territories within the Commonwealth of Australia and coordinates the development of the BCA. The BCA contains the technical provisions for building design and is maintained by the Australian Building Codes Board.

The legislations and regulations required for the implementation of the BCA occurs at the State and Local Government level. Building approvals and occupancy permits are given by local council building surveyors and inspectors and in some cases by private building surveyors.

The administrative requirements still differ between each state and territories. In the ACT, the Building Act 2004 and Building Regulations 2008 detail the Territory legislative and regulatory requirements.

The technical requirements for building in respect to health, safety and amenity of people occupying or near buildings is contained with the National Construction Code - Volume 1 - Building Code of Australia (BCA). This document is applied nationally with various State and Territory variations.

The objectives and functional requirements are provided for guidance purposes only. The only part of the BCA that Building Solutions must comply are the Performance Requirements. A Building Solution may comply with the Deemed-to-Satisfy (DtS) provisions, which are deemed to comply with the Performance Requirements. In most Performance Solutions, the Building Solution is partly based on a DtS building design and partly a Performance Building Solution.

The BCA is not specifically referred to in the Building Act but is prescribed by the Building Regulation. The Building Regulation specifies that a proposed building must comply with the requirements of the BCA.

The IFEG document has been developed for use in the fire safety design and assessment of buildings and reflects world's best practice. The document is intended to provide guidance for fire safety engineers as they work to develop and access strategies that provide acceptable levels of safety.

The document is particularly useful in providing guidance in the design and assessment of Performance Solutions against the Performance Requirements of the BCA. The prescribed methodology set out in the IFEG is to be adopted in the fire engineering analysis.

The Building Regulations requires building planning to follow the following three step process:

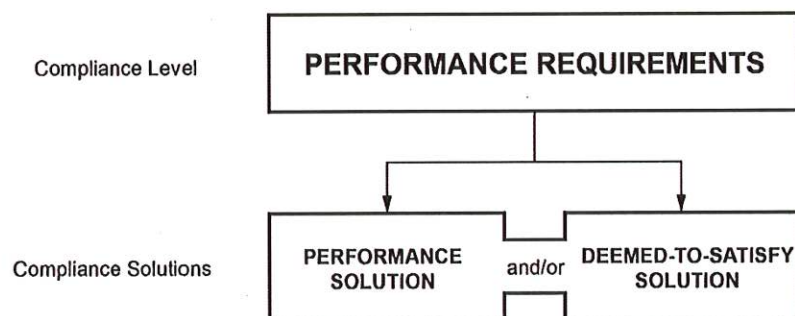
- Development Application
- Building Approval
- Occupancy

In order to obtain building approval, any proposed building or tenancy project with a floor area greater than 500m² is required to be reviewed by ACT Fire & Rescue for both plan review as well as any performance solution review. Likewise, in order to obtain the Certificate of Occupancy for a building or tenancy project, occupancy clearance is required from ACT Fire & Rescue.

The role of ACT Fire & Rescue is governed by the Emergencies Act 1989. This Act sets out the Fire Brigade's structure, operations, responsibilities, etc.

FIGURE 38:

BCA STRUCTURE



Source: BCA 2019

A.6.3 Standards of Construction, Commissioning, Management, Use and Maintenance

The following base information sources were used in the evaluation of the building:

- National Construction Code 2019 Amendment One – Volume One – Building Code of Australia, Class 2 to 9 buildings, Australian Building Codes Board, Canberra, 2020. (BCA)
- Guide to the Building Code of Australia 2019 Amendment One – Volume One – Building Code of Australia, Class 2 to 9 buildings, Australian Building Codes Board, Canberra, 2020 (the Guide).

A fire safety management-in-use plan is recommended to be developed and implemented by the buildings management incorporating as minimum the maintenance of the buildings fire safety measures in accordance with the ABCB Maintenance of Safety Measures, Equipment and Energy Efficiency Installations Handbook 2015 and any applicable Australian Standards.

Current legislation for the maintenance of buildings is managed initially through Section 92 of the Emergencies Act where the Chief Officer may, in writing, direct the occupier of the premises for the provision or installation of a fire appliance at the premises. In accordance with Section 95(2) of the Emergencies Act, it is an offence if a fire appliance is provided or installed at the premises under a direction via Section 92 and the occupier fails to maintain the fire appliance to a reasonable standard.

Prior to the Emergencies Act 2004 the Fire Brigades Ordinance of 1957 as amended until 2004 owners of a building are required to maintain to the satisfaction of the Chief Officer of a fire brigade a fire appliance provided or installed in the building in pursuance of a direction given under the regulations. Whilst no evidence has been identified that the ACT Fire Service Chief Officer has provided direction under Section 92 of the Emergencies Act 2004 or Section 13 of the Fire Brigades Ordinance 1957. ACT Building Regulations since 1972 have required the ACT Fire Service Chief Officer to review and comment on the installed fire appliances. Given the process of building approval, it is assumed that the ACT Fire Service Chief Officer has issued or will issue support for the installed fire safety appliances.

It is noted that the building maintenance process and documentation is not a legislated element within the ACT.

A.7 Dominant Occupant Characteristics

The characteristics of occupants in a building can have a significant impact on the evacuation behaviour and the total evacuation time for a building. The occupancy characteristics for the varying portions of the building are presented below.

The characteristics of various occupancies are listed below. Not all the following occupancies may be relevant to the subject project.

A.7.1 Distribution

The characteristics of occupants in a building can have a significant impact on the evacuation behaviour and the total evacuation time for a building.

Occupants within the building will be made up of staff, teachers and children. In the event of fire, all occupants are assumed to perceive the fire alarm. There is however usually scepticism as to whether the alarm is genuine or not, and occupant behaviour following the alarm depends on many different factors such as social influence, experience, commitment and training.

The occupancy of the building is sufficiently large and uncensored to assume that there will be a mix of abilities amongst the individuals. People with disabilities may also be present to the same proportion as expected within the general population. It will however be assumed that nobody in the building needs to be transported in a bed or via a stretcher to evacuate the building in a fire incident.

A.7.2 Familiarity and recognition

Occupants are expected to be familiar with the primary access and egress routes from the building. It is unlikely that occupants will be familiar with all the evacuation routes without the implementation of fire emergency training drills. The students will undertake evacuation under the direction of staff. The staff are expected to have the ability to take and implement decisions independently and the potential emergency behaviour is to be rational and conducive to the emergency situation.

A.7.3 Physical attributes

Occupants are assumed to have the same level of mobility as the general population. This may include a limited proportion of mobility impaired occupants. These occupants may require crutches, a wheelchair or similar in order to evacuate on their own or need assistance from other occupants.

A.7.4 State

The building is not a place of residence therefore occupants are assumed to be awake and alert such that they are aware of the emergency situation.

A.7.5 Emergency training

Emergency training is unlikely to occur. The occupants are expected to have a level of understanding where they can recognise an emergency situation.

A.8 General Objectives

This fire engineering assessment has been undertaken to show the suitability of the proposed fire safety systems within the building and compliance with the nominated performance criteria of the Building Code of Australia (BCA).

The level of building fire safety has been determined by a systematic performance-based evaluation generally complying with the Australian Building Codes Board, "International Fire Engineering Guidelines".

Where the results of the analysis indicate that the level of life safety does not meet the current prescriptive building regulations, alternative fire safety systems have been recommended.

The objectives of the performance assessment are to:

- Assess the compliance of nominated design aspects with the performance requirements of the BCA
- Consider alternate design solutions, to satisfy the relevant performance requirements.

The goals of the BCA are to enable the achievement and maintenance of acceptable minimum standards of structural sufficiency, safety (including safety from fire), health and amenity for the benefit of the community now and in the future. These goals are applied so that the BCA extends no further than is necessary in the public interest, is cost effective, easily understood, and is not needlessly onerous in its application.

The client must make themselves familiar and endorse the proposed performance solutions which complies with the Performance Requirements rather than complying with the Deemed-to-Satisfy Provisions of the BCA.

The fire safety objectives of the client are to:

- Enhance public image and satisfy moral obligations
- Protect assets
- Maintain services to the local community
- Continue operations
- The fire safety objectives of the fire and rescue service include:
 - General authority to protect persons and property.
 - Duty to deal with fires and hazardous material incidents.
 - To take all practicable measures for preventing and extinguishing fires and protecting and saving life and property in case of fire.
- To have regard to the principles of ecologically sustainable development

A.9 Fire Hazards and Preventative and Protective Measures

The building will be provided with the major fire safety measures required by the DtS provisions of the BCA listed as follows. A comprehensive list of fire safety measures is to be provided by the certifier as part of the building approval process. Additional fire safety measures if required as part of the performance solution are listed within the fire safety measures within Part B.

TABLE 8:
HAZARDS AND PREVENTATIVE AND PROTECTIVE MEASURES

Area	Hazards	Ignition Source	Fuel Loads	Preventative Measures	Protections Measures
School		Electrical faults		Staff presence	Risk specific portable fire extinguishers
		Food stuffs	Fixtures/Fittings	Surveillance	
		Cooking equipment	Rubbish bins	Alarm system	
		Heating	Sofa/couches	Security	
		Equipment faults			

Source: Ignis Solutions

A.10 Fire Scenarios

A single fire will be assumed to occur in one location at one time only. Multiple fires are not considered. Fires are anticipated to initially be smouldering, developing to a flaming fire. Should occupant intervention not extinguish the fire. Additionally, it is assumed that the setbacks from other buildings and the fire load will mitigate fire spread from the subject building to other buildings.

Statistics indicate that a significant cause of fires is arson. Therefore, it is important for some level of arson to be considered. It is considered that the design fires listed above will adequately include an arson scenario. An arson fire would either be based on introduced fuels, fuel already within the building or a combination. Any introduced fuels are likely to be less than the fuels within the building due to limitation of what a person can carry. Combining introduced fuels with existing fuels is unlikely to substantially increase the fire size. Arson has not been specifically addressed further due to the Performance Solutions being independent of whether the design fire is a result of arson or not.

Appendix

B

Radiation formula

B RADIATION FORMULA

B.1 Brief Summary

Fire spread can occur between one body (emitter) to another remote body (receiver) through the means of Thermal Radiation, which is the transfer of heat via electromagnetic waves. This means that one body can ignite without being in contact with another "burning" object.

The following formula determines the amount of Thermal Radiation required to ignite an object that is remote from a burning object. This can be determined when the radiator is parallel or perpendicular to the receiver at a particular distance.

B.2 Limitations Associated with use of Spreadsheet

The methodology detailed within this design guide is limited to two surfaces that are located perpendicular to each other.

The calculations determined the highest levels of thermal radiation received from the centre of the emitting surface.

B.3 Calculation Methodologies

B.3.1 Assumptions

- emissivity of the body is 0.75, this is supported by information published within An introduction to fire Dynamics, Drysdale D, which states that a fire brick at 1000°C has an emissivity of 0.75
 - Drysdale also indicates an emissive power of 0.75 for grey bodies, which compares favourably with that of a real surface
 - The value of 0.9 for the emissive power will be used following discussions with the fire service to account for a conservative value.
 - temperature of the emitting body is 1273 K (1000°C), having a cherry red/orange visual colour
- According to Law¹² and Drysdale¹³, the incident radiation capable of piloted ignition of volatiles from wood after about 20 minutes exposure is 12.5 kW/m². Also the spontaneous ignition of wood is 29 kW/m². It is reasonable to suggest that the local fire service is expected to have arrived and would apply water to cool the adjacent area or building prior to this 20 minute exposure.

Data published by the department of Housing and Construction¹⁴ also indicates that where wall wetting sprinklers are activated the incident radiation through the glass will be reduced to approximately 10%. This is also supported by testing conducted by Richardson, J.K. and Oles Zkiewicz.

B.3.2 Methodology

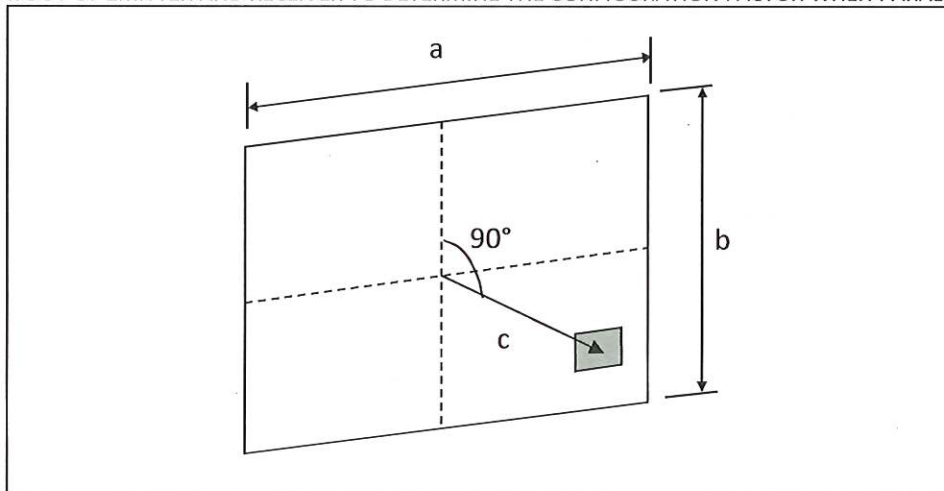
Prior to calculating the radiation received from the emitting body, the configuration factor needs to be determined.

The configuration factor is used within the calculations to account for the geometrical relationship between the emitter and the receiver.

Configuration Factor For A Body Located Parallel To The Emitting Body

FIGURE 39:

LAYOUT OF EMITTER AND RECEIVER TO DETERMINE THE CONFIGURATION FACTOR WHEN PARALLEL TO EACH OTHER



With the height and width of the emitter known, the configuration factor (ϕ) for two parallel surfaces can be determined as follows.

Firstly, determine the values of X and Y using the following modified formula from “The SFPE Handbook of Fire Protection Engineering” (refer to Figure 1 for a, b and c):

$$X = \frac{a}{2c} \quad (1)$$

$$Y = \frac{b}{2c} \quad (2)$$

Once X and Y are known, these values can be substituted into the following equation to determine the configuration factor.

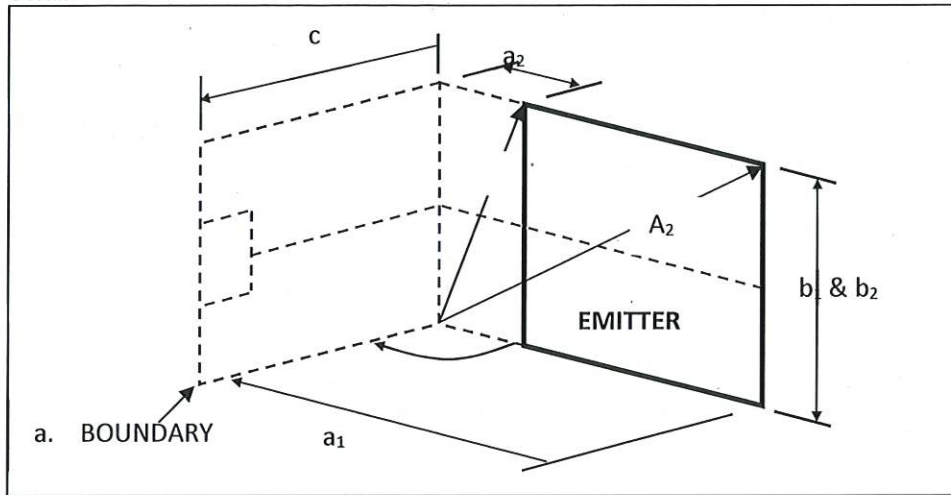
$$\phi = \frac{2}{\pi} \left[\frac{X}{\sqrt{1+X^2}} \tan^{-1} \left(\frac{Y}{1+X^2} \right) + \frac{Y}{\sqrt{1+Y^2}} \tan^{-1} \left(\frac{X}{1+Y^2} \right) \right] \quad (3)$$

The value of the Configuration Factor determined from Equation 3 can now be substituted into Equation 8 to find the radiation received from an emitting body located at a distance 'c' parallel to the receiving body.

Configuration Factor For A Body Located Perpendicular To The Emitting Body

FIGURE 40:

LAYOUT OF EMITTER AND RECEIVER TO DETERMINE THE CONFIGURATION FACTOR WHEN PERPENDICULAR TO EACH OTHER



With the height and width of the emitter known, the configuration factor for two perpendicular surfaces can be determined as follows.

Before starting, the dimensions and the position of the emitting surface needs to be known. As indicated within Figure 2, the emitter can be located at some distance from the point of interest 'c' and also a distance from the boundary (a_2). Therefore, to determine the Configuration Factor for the emitter only, the Configuration Factor for the gap between the emitter and the boundary (Area 2, denoted by A_2 in Figure 2) and also the emitter including the gap (Area 1, denoted by A_1 in Figure 2) needs to be determined (i.e. Area 1 is the area of the emitter and the gap between the emitter and the boundary the receiver lies on, Area 2 is the area of the gap between the emitter and the receiver boundary).

Firstly, determine the values of X and Y (for Areas 1 and 2) using the following modified formula from "The SFPE Handbook of Fire Protection Engineering" (refer to Figure 2 for a, b and c and Areas 1 and 2):

$$Y = c/2b \quad (4)$$

$$X = a/2b \quad (5)$$

By substituting the values of X and Y into Equation 6, the value of A can be determined for both Areas 1 and 2 (to be used later).

$$A = 1/\sqrt{X^2 + Y^2} \quad (6)$$

The configuration factor for Areas 1 and 2 can now be determined using Equation 7 below.

$$\phi = \frac{1}{\pi} [\tan^{-1}(1/Y) - AY \tan^{-1} A] \quad (7)$$

Once the Configuration Factors for Areas 1 and 2 have been found, the overall Configuration Factor can be determined by subtracting the Configuration Factor for Area 2 from the Configuration Factor for Area 1. The resulting value can now be substituted into Equation 8 to find the radiation received from an emitting body located at a distance 'c' perpendicular to the receiving body.

B.3.3 Determining the radiation received

Once the configuration factor has been determined, the amount of thermal radiation received from the emitter can be found using the following formula.

$$q_r = \phi \sigma \varepsilon T^4 \quad \text{-(8)}$$

where q_r is the amount of thermal radiation received from the emitter (kW/m²)

ϕ is the configuration factor

σ is the Stefan-Boltzmann constant (5.67x10⁻⁸ W/m².K⁴)

ε is the emissivity of the body (must be less than or equal to 1)

T is the temperature of the emitting body (K)

REFERENCES

Drysdale, D. An Introduction to Fire Dynamics, John Wiley & Sons, 1986.

Drysdale, D., "An Introduction To Fire Dynamic", Second Edition, John Wiley & Sons, Chichester 1998

Fire Engineering Guidelines 2001, Appendix 10A

Kandola, B.S. et al., "The SFPE Handbook of Fire Protection Engineering", Third Edition, SFPE, Massachusetts 2002

Law, M., Heat Radiation from Fires and Building Separation, Fire research Station Technical Paper No. 5, HMSO, London, 1963.

Technical Record TR 44/153/422, Water curtains to, shield glass from radiant heat from building fires, Experimental Building Station Department of Housing & Construction

Yau, A.T.H et al., A Methodology For Radiation Heat Transfer Analysis For Fire Safety Engineering Applications, FSE2004 – Issues & Solutions, Society of Fire Safety Engineers Australia, 2004

Appendix

C

radiation calculations

C RADIATION CALCULATIONS

Opening A



Version:	1.0-5/2005	Job No.	8158
B04 S41 Brindabella Christian College		Date	2/11/2020
Scenario - Opening A		Designer	TLNC

Thermal Radiation Calculation - Emitting Body Located Parallel to Receiving Body

References:

1. Drysdale, D., "An Introduction To Fire Dynamic", Second Edition, John Wiley & Sons, Chichester 1998
2. Fire Engineering Guidelines 2001, Appendix 10A
3. Kandola, B.S. et al., "The SFPE Handbook of Fire Protection Engineering", Third Edition, SFPE, Massachusetts 2002

Input Data (change values highlighted in blue)

From opening to adjacent lot

Input Variable	Description	Value	1m	3m	6m
T	Absolute Temperature of radiator	1000 °C			
ϵ	Emissivity of radiator	0.90			
a	Width of radiator body	1.8 m			
b	Height of radiator body	1 m			
c	Distance between radiator and receiver	5.3 m			
σ	Sigma	5.67E-11 kW/m ² -K ⁴			
ϕ	Configuration factor	0.02	0.01	0.01	0.00

Output Results

$q_{emitted}$	Radiation Emitted from radiator	134.01	134.01	134.01	134.01 kW/m ²
q_r	Radiation Received by receiving body	2.67	1.90	1.10	0.60 kW/m ²
T	Temperature received by receiving body	205	166	110	56 °C

From opening to adjacent lot

BCA CV1	Radiation received	BCA Limit (kW/m ²)	Result
On boundary	2.67	80	PASS
1m from boundary	1.90	40	PASS
3m from boundary	1.10	20	PASS
6m from boundary	0.60	10	PASS

Output Results

From adjacent lot to opening

Input Variable	Description	Value	1m	3m	6m
T	Absolute Temperature of radiator	1000 °C			
ϵ	Emissivity of radiator	0.90			
a	Width of radiator body	2.25 m			
b	Height of radiator body	1.25 m			
c	Distance between radiator and receiver	5.3 m			
σ	Sigma	5.67E-11 kW/m ² -K ⁴			
ϕ	Configuration factor	0.03	0.02	0.01	0.01

From boundary to subject opening (25% increase in area)

Radiation Emitted (kW/m ²)	Radiation Received (kW/m ²)	Radiation Limit (kW/m ²)	Temperature received (°C)	Result
80	2.45	13	195	PASS
80	1.76	13	158	PASS
80	1.02	13	103	PASS
80	0.56	13	50	PASS

Opening B



1.0-5/2005		Job No.	8158
B04 S41 Brindabella Christian College		Date	2/11/2020
Scenario -	Opening B	Designer	TL/NC



Thermal Radiation Calculation - Emitting Body Located Parallel to Receiving Body

References:

1. Drysdale, D., "An Introduction To Fire Dynamic", Second Edition, John Wiley & Sons, Chichester 1998
2. Fire Engineering Guidelines 2001, Appendix 10A
3. Kandola, B.S. et al., "The SFPE Handbook of Fire Protection Engineering", Third Edition, SFPE, Massachusetts 2002

Input Data (change values highlighted in blue)

From opening to adjacent lot

Input Variable	Description	Value	1m	3m	6m
T	Absolute Temperature of radiator	1000 °C			
ϵ	Emissivity of radiator	0.90			
a	Width of radiator body	3 m			
b	Height of radiator body	3.1 m			
c	Distance between radiator and receiver	5.3 m			
σ	Sigma	5.67E-11 kW/m ² -K ⁴			
ϕ	Configuration factor	0.09	0.07	0.04	0.02

Output Results

Variable	Description	Value	1m	3m	6m
$q_{emitted}$	Radiation Emitted from radiator	134.01	134.01	134.01	134.01 kW/m ²
q_r	Radiation Received by receiving body	12.72	9.27	5.51	3.03 kW/m ²
T	Temperature received by receiving body	434	380	300	221 °C

From opening to adjacent lot

BCA CV1	Radiation received	BCA Limit (kW/m ²)	Result
On boundary	12.72	80	PASS
1m from boundary	9.27	40	PASS
3m from boundary	5.51	20	PASS
6m from boundary	3.03	10	PASS

Output Results

From adjacent lot to opening

Input Variable	Description	Value	1m	3m	6m
T	Absolute Temperature of radiator	1000 °C			
ϵ	Emissivity of radiator	0.90			
a	Width of radiator body	3.75 m			
b	Height of radiator body	3.88 m			
c	Distance between radiator and receiver	5.3 m			
σ	Sigma	5.67E-11 kW/m ² -K ⁴			
ϕ	Configuration factor	0.14	0.10	0.06	0.03

From boundary to subject opening (25% increase in area)

Radiation Emitted (kW/m ²)	Radiation Received (kW/m ²)	Radiation Limit (kW/m ²)	Temperature received (°C)	Result
80	11.25	13	412	PASS
80	8.31	13	362	PASS
80	5.02	13	287	PASS
80	2.79	13	211	PASS

Appendix

D

fire engineering notices



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17-Nov-20
Date of Issue

IGNIS FIRE SAFETY COMPLIANCE SCHEDULE

Evaluation No.8158
Issue 02 Revision 00 [2020]

Brindabella Christian College Block 04 Section 41 Lyneham ACT

Fire Safety Measure	Reference Standard
Access and Egress	<ul style="list-style-type: none"> BCA 2019 A1 Part D <ul style="list-style-type: none"> Exit paths to be kept 1m wide and clear of obstruction
Automatic fire detection and alarm systems	<ul style="list-style-type: none"> Ignis Solutions Performance Report 8158 I01R01 dated 17-Nov-20 BCA 2019 A1 Part E <ul style="list-style-type: none"> AS 1670.1:2018 Fire detection, warning, control, and intercom systems
Emergency lighting	<ul style="list-style-type: none"> BCA 2019 A1 Clause E4.2, E4.4 <ul style="list-style-type: none"> AS/NZS 2293.1:2018 Emergency evacuation lighting in buildings
Exit signs	<ul style="list-style-type: none"> BCA 2019 A1 Clause E4.5 and E4.6 <ul style="list-style-type: none"> AS/NZS 2293.1:2018 Emergency evacuation lighting in buildings
Fire hydrant systems	<ul style="list-style-type: none"> BCA 2019 A1 Clause E1.3 <ul style="list-style-type: none"> AS 2419.1:2005
Hose reel system	<ul style="list-style-type: none"> BCA 2019 A1 Clause E1.1 <ul style="list-style-type: none"> AS 2441:2005 amdt 1 installation of fire hose reels
Portable fire extinguishers	<ul style="list-style-type: none"> BCA 2019 A1 Clause E1.6 <ul style="list-style-type: none"> AS 2444:2001 Portable fire extinguishers
Performance Solution	<ul style="list-style-type: none"> Ignis Solutions Performance Report 8158 I01R01 dated 17-Nov-20 <ul style="list-style-type: none"> Rationalisation of FRLs – External Walls Automatic Fire Detection and Alarm Systems Protection of Openings Distance of Travel



 A member of LIVE Group International

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17-Nov-20
Date of Issue

IGNIS PERFORMANCE SOLUTION NOTICE

Evaluation No.8158
Issue 02 Revision 00 [2020]

Brindabella Christian College Block 04 Section 41 Lyneham ACT

PERFORMANCE SOLUTIONS HAVE BEEN APPLIED TO THIS BUILDING.

These relate to:

- Rationalisation of FRLs – External Walls
- Automatic Fire Detection and Alarm System
- Protection of Openings
- Distance of Travel

Refer to Fire Engineering Report, 8158 I02R00, dated 17-Nov-20, by Ignis Solutions.

This report specifies building works and services which are required to be inspected as part of the Annual Fire Safety Certification process.

Where building alterations or a change of occupancy occurs, the validity of this fire safety analysis may be compromised.

Please contact Ignis Solutions prior to undertaking any alterations and to assist with the annual certification process.

REFERENCE

- [1] Grantham, R. and Enjily, V., Multi-storey Timber Frame Buildings, A Design Guide. BRE Bookshop, Watford, UK, 2003.
- [1] Australian Building Codes Board (2016), Guide to the BCA 2016, Australia.
- [2] Australian Building Codes Board, (2015), Guide to the BCA 2015, Australia.
- [3] Australian Building Codes Board, (2005) International Fire Engineering Guidelines, Edition 2005, ABCB, p2.4-4.
- [4] Mowrer, F. W. (1998) Window breakage induced in external fires, pp 404-415 in proceedings of 2nd International Conference on Fire Research and Engineering, Society of fire Protection Engineers, Bethesda, MD, USA.
- [5] Cohen, J.D. and Wilson, P. (1994) Current results from Structure Ignition Assessment Model (SIAM) Research presented in Fire Management in the Wildland/Urban Interface: Sharing Solutions, Kananaskis, Alberta, Canada.
- [6] Standards Australia, (1997) AS 1530.4-1997 Table A1.
- [7] Australian Building Codes Board, (1996) Guide to the BCA'96, Australia.
- [8] Babrauskas, V., Temperatures in Flames and Fires, Fire Science and Technology Inc., Issaquah, WA, 1997.
- [9] England, J.P., Young, S.A., Hui, M.C., Kurban, N., Guide for the Design of Fire Resistant Barriers and Structures, Building Control Commission, Melbourne, 2000.
- [10] Drysdale, D., An Introduction to Fire Dynamics, 2nd edition, Wiley, 1998, p 296
- [11] "Fire Safety Approved Document B", Department of the Environment and the Welsh Office, UK, 2002.
- [12] Law, M., Heat Radiation from Fires and Building Separation, Fire research Station Technical Paper No. 5, HMSO, London, 1963.
- [13] Drysdale, D. An Introduction to Fire Dynamics, John Wiley & Sons, 1986.
- [14] Technical Record TR 44/153/422, Water curtains to, shield glass from radiant heat from building fires, Experimental Building Station Department of Housing & Construction.



Building Approval Fees and Levies Tax Invoice

TO THE PAYEE
c/o Brindabella Christian College
136 Brigalow Street,
Lyneham ACT 2602

Access Canberra Land, Planning and Building Services

ABN 16 479 763 216
8 Darling Street Mitchell
GPO Box 158 ACT 2601
Access Canberra Homepage: www.act.gov.au/accesscbr

Invoice Date: 17/02/2023 Time: 3:38:26 PM

Invoice Number: 3100781438

Block - Section - Division - District	Building Levy	Training Levy	Fees Paid	Total
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4 - 41 - LYNEHAM - CANBERRA CENTRAL Ref #
- 33381

Total

Sch 2.2(a)(xi)

No GST applies to these fees and levies.

PAYMENT REQUIRED WITHIN 14 DAYS OF INVOICE ISSUE DATE

Payment Options



Bill Code: **Sch 2.2(a)(xi)**
Ref: **Sch 2.2(a)(xi)**

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To pay online by credit card (MasterCard or Visa), click on the "Building and Construction Fees and Levies" online payment form located at
<https://www.accesscanberra.act.gov.au/app/answers/payment>



Phone

Telephone (02) 6207 1923 8.30am - 4.30pm Mon - Fri and have your credit card details handy (MasterCard and Visa).



In Person

Access Canberra Land, Planning and Building Services Shopfront Only: 8.30am – 4.30pm Mon – Fri . Cash, Cheque, EFTPOS, Credit card (Mastercard and Visa). CashLink Code – 34 0075