




Reference number 3664

Member of the Fire Protection Association of Australia

Lot 1, section 96, DP 244645, 2 Warekila Road, Beacon Hill, NSW 2100.

Wednesday, 20 October 2021

Prepared and certified by:	Matthew Willis <i>BPAD – Level 3 Certified Practitioner</i> Certification No: BPD-PA 09337		20/10/2021
Can this proposal comply with AS3959-2018 (inc section 7.5, 7.5.1, 7.5.2, 7.5.3, 7.5.4 (where applicable) of the Rural Fire Services document Planning for Bushfire Protection 2019)?	Yes		
What is the recommended AS 3959-2018 level of compliance?	BAL-19 and BAL-12.5		
Is referral to the RFS required?	No		
Can this development comply with the requirements of PBP?	Yes		
Plans by "Rapid Plans" (Appendix 1) dated.	17/8/21		

© This document is copyright. It is a breach of copyright for this document to be used to support a development application or any other purpose for any persons/entities other than those for whom this document was prepared. Other than for the purpose for which this document has been prepared and subject to conditions prescribed under the Copyright Act no part of this document may in any form nor by any means be reproduced or stored in a retrieval system or transmitted without the prior written permission of the company (Bushfire Planning Services Pty Ltd ACN 115 714 826).



Bushfire Planning Services

15 Parkcrest Place

Kenthurst NSW 2156

02 96543228

0428408577

mattw@bushfireconsultants.com.au

Bushfire Risk Assessment

Wednesday, 20 October 2021

Contact

Carly Tracy

Rapid Plans

PO Box 6193

Frenchs Forest NSW 2086

9905 5000

Subject Property

Lot 1, section 96, DP 244645

2 Warekila Road

Beacon Hill NSW 2100

BUSHFIRE RISK ASSESSMENT CERTIFICATE

THIS FORM IS TO BE COMPLETED BY A RECOGNISED CONSULTANT IN BUSHFIRE RISK ASSESSMENT IN ACCORDANCE WITH SECTION 79BA 1(b) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979 NO 203

Property Address	Lot 1, section 96, DP 244645, number 2 Warekila Road Beacon Hill
Description of the Proposal	Alterations and additions to an existing dwelling
Plan Reference	17/8/21
BAL Rating	BAL-19 and BAL-12.5
Does the Proposal Rely on Alternate Solutions?	No

I, Matthew Willis of Bushfire Planning Services Pty Ltd have carried out a bushfire risk assessment on the above-mentioned proposal and property. A detailed Bushfire Assessment Report is attached which includes the submission requirements set out in Planning for Bushfire Protection 2019 together with recommendations as to how the relevant Specifications and requirements are to be achieved.

I hereby advise, in accordance with Section 4.14 of the Environmental Planning and Assessment Act 1979 No 203:

1. That I am a person recognised by the NSW Rural Fire Service as a qualified consultant in bushfire risk assessment; and
2. That subject to the recommendations contained in the attached Bushfire Risk Assessment Report the proposed development conforms to the relevant specifications and requirements*

*The relevant specifications and requirements being specifications and requirements of the document entitled Planning for Bush Fire Protection prepared by the NSW Rural Fire Service in co-operation with the Department of Planning and any other document as prescribed by Section 4.14 of the Environmental Planning and Assessment Act 1979 No 203.

I am aware that the Bushfire Assessment Report, prepared for the above-mentioned site is to be submitted in support of a development application for this site and will be relied upon by Northern Beaches Council as the basis for ensuring that the bushfire risk management aspects of the proposed development have been addressed in accordance with Planning for Bushfire Protection 2019.

REPORT REFERENCE	Wednesday, 20 October 2021
REPORT DATE	Wednesday, 20 October 2021
CERTIFICATION NO/ACCREDITED SCHEME	FPAA BPAD A BPD-PA 09337

Attachments:

- Bushfire Risk Assessment Report
- Recommendations

SIGNATURE: ---  ----- **DATE:** -----Wednesday, 20 October 2021

Contents.

1	Executive Summary.	5
2	General.	6
3	Block Description.	6
4	Vegetation.	8
5	Known constraints on subject block.	10
6	Slope.	10
7	Utilities.	11
7.1	Water.	11
7.2	Electricity	11
7.3	Gas	11
8	Access/Egress.	11
9	Compliance with Planning for Bushfire Protection setbacks.	12
10	Siting.	12
11	Construction and design.	13
12	Utilities.	13
12.1	Water.	13
12.2	Electricity and Gas.	14
13	Asset Protection Zone (APZ).	14
14	Landscaping.	14
15	Constraints on the subject block.	15
16	Access/Egress.	15
17	Compliance or non compliance with the specifications and requirements for bushfire protection measures.	15
18	Conclusions.	16
19	References.	18
20	Appendix 1 - Plans .	19

1 Executive Summary.

Bushfire Planning Services has been requested by Carly Tracy from Rapid Plans to supply a bushfire compliance report on lot 1, section 96, DP 244645, 2 Warekila Road, Beacon Hill.

The works proposed for the subject lot are for the alterations and additions to an existing dwelling, see attached plans for details.

The subject lot is on the south western corner of Kalianna Crescent and Warekila Road and at its closest point to the hazard the proposed new work has a separation distance to the north-west of approximately 75m.

The vegetation that is considered to be the hazard to this proposal is situated on land that slopes down slope away from the property at an angle of approximately 13.42°.

For the purposes of this assessment this vegetation is considered to be Forest.

The remaining vegetation within the study area is contained within the boundaries of established allotments and is managed land and of low threat to this proposal.

The calculations and assumptions outlined in this report show that the development will be required to comply with the construction requirements of AS 3959-2018 BAL-19 on its exposed northern, western and southern aspects, and BAL-12.5 on the eastern aspects and any additional construction requirements contained within section 7.5, 7.5.1, 7.5.2, 7.5.3, 7.5.4 (where applicable) of the Rural Fire Services document Planning for Bushfire Protection 2019.

The following table is a summary of the pertinent findings of this assessment.

Aspect	North	East	South	West
Vegetation type	Managed land	Managed land	Managed land	Managed land/forest
Slope	N/A	N/A	N/A	10-15 degrees downslope
Setback within lot 1, section 96	N/A	N/A	N/A	11.5m
Setback outside lot 1, section 96	N/A	N/A	N/A	63.5m
Total setback	N/A	N/A	N/A	75m
Bal level	N/A	N/A	N/A	BAL-19

Note: The above table is a summary of the significant variables used to determine the highest BAL for this proposal. THIS TABLE IS NOT INTENDED FOR CONSTRUCTION! Only the highest BAL level is shown, aspects marked as N/A will still have a BAL. Refer to section 11 for construction requirements for these other aspects.

2 General.

This proposal relates to the alterations and additions to an existing dwelling on the subject lot and its ability to comply with the rules and regulations for building in a bushfire prone area.

The methodology used on this report is based on Planning for Bushfire Protection 2019 (PBP) as published by the New South Wales Rural Fire Service.

Any wording that appears in *blue italics* is quotes from Planning for Bushfire Protection 2019. Some of the measurements used in this report have been taken from aerial photographs and as such are approximate only.

3 Block Description.

The subject block is situated on the south western corner of Kalianna Crescent and Warekila Road in an established area of Beacon Hill.

The lot currently contains a single-level class 1 dwelling.

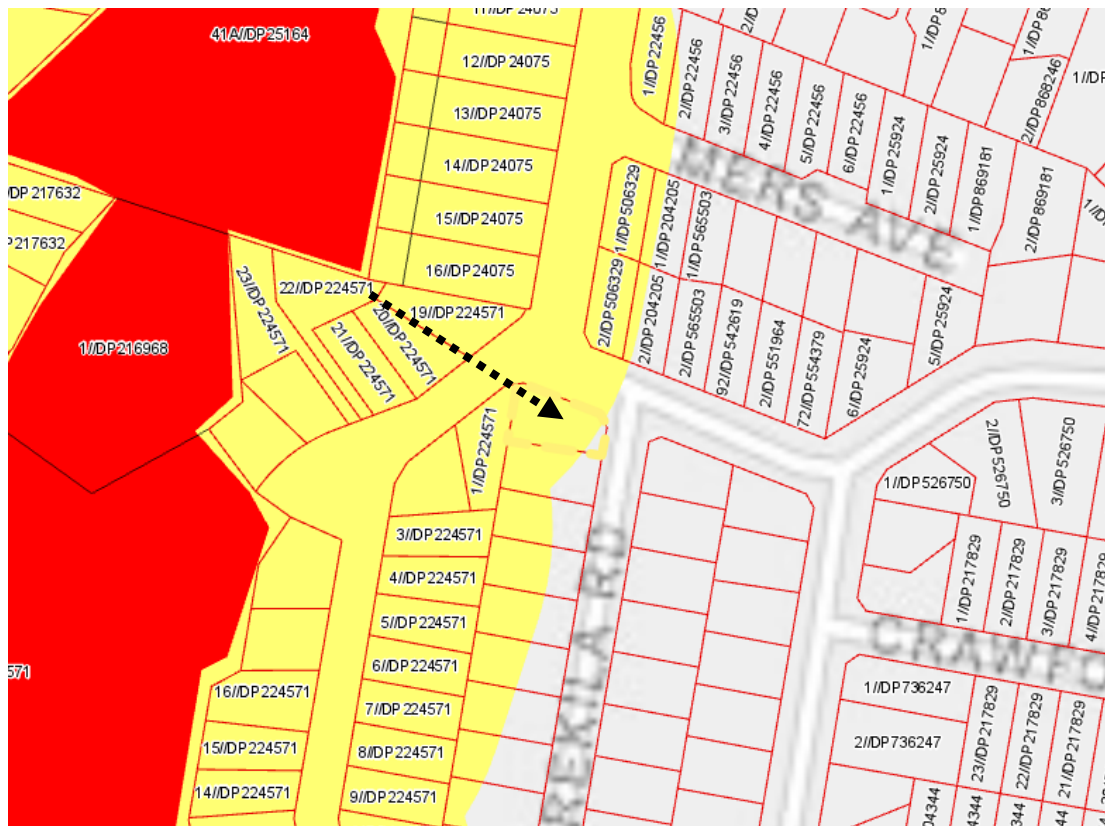
The lands surrounding the proposed site on the subject lot to a distance of at least 75m contain existing development or land that is otherwise not considered to be a significant bushfire hazard.

- Lot; 1, section 96
- DP; 244645.
- LGA; Northern Beaches.
- Area; 569m².
- Address; 2 Warekila Road, Beacon Hill.

This section has been left blank.



Map 1 shows the cadastral layout around the subject lot.



Map 2 is an extract from the councils' bushfire prone land map. The map shows lot 1, section 96 to be within the buffer zone of category 1 bushfire vegetation.

4 Vegetation.

The study area for the vegetation is 140m surrounding the subject block.

The vegetation within the study area for this development is considered to be largely managed land.

The major potential hazard to this development is the vegetation within an area of undeveloped land to the north-west.

For the purpose of this assessment and compliance with Planning for Bushfire Protection this area of undeveloped land is considered to be Forest and is the hazard to this proposal.



Photo 1 - An overview of the vegetation within the general area.

This area has been left intentionally blank.



Photo 2 is a closer view of the vegetation in the area.

Table 1 outlines the vegetation orientation and distance from the development area.

Aspect	North	East	South	West
Vegetation type	Managed land	Managed land	Managed land	Managed land/forest
Setback within lot 1, section 96	N/A	N/A	N/A	11.5m
Off-site setback	N/A	N/A	N/A	63.5m
Total setback	N/A	N/A	N/A	75m

Table 1 - Any aspect marked with "N/A" in the table above indicates that it is considered there is none or only a secondary hazard in that direction.

This area has been left intentionally blank.

5 Known constraints on subject block.

I have not been informed or know of any places of cultural or environmental significance within the boundaries of the subject block. Given the nature of the surrounding land it is considered highly unlikely that anything of significance will be affected by this development.

6 Slope.

The slope of the land beneath the hazard that is most likely to influence bushfire behaviour has been calculated by topographical map analysis to a distance of 100m from the subject lot. An extract of the topographical map for the area is shown below and the relevant slope analysis is shown in Table 2.

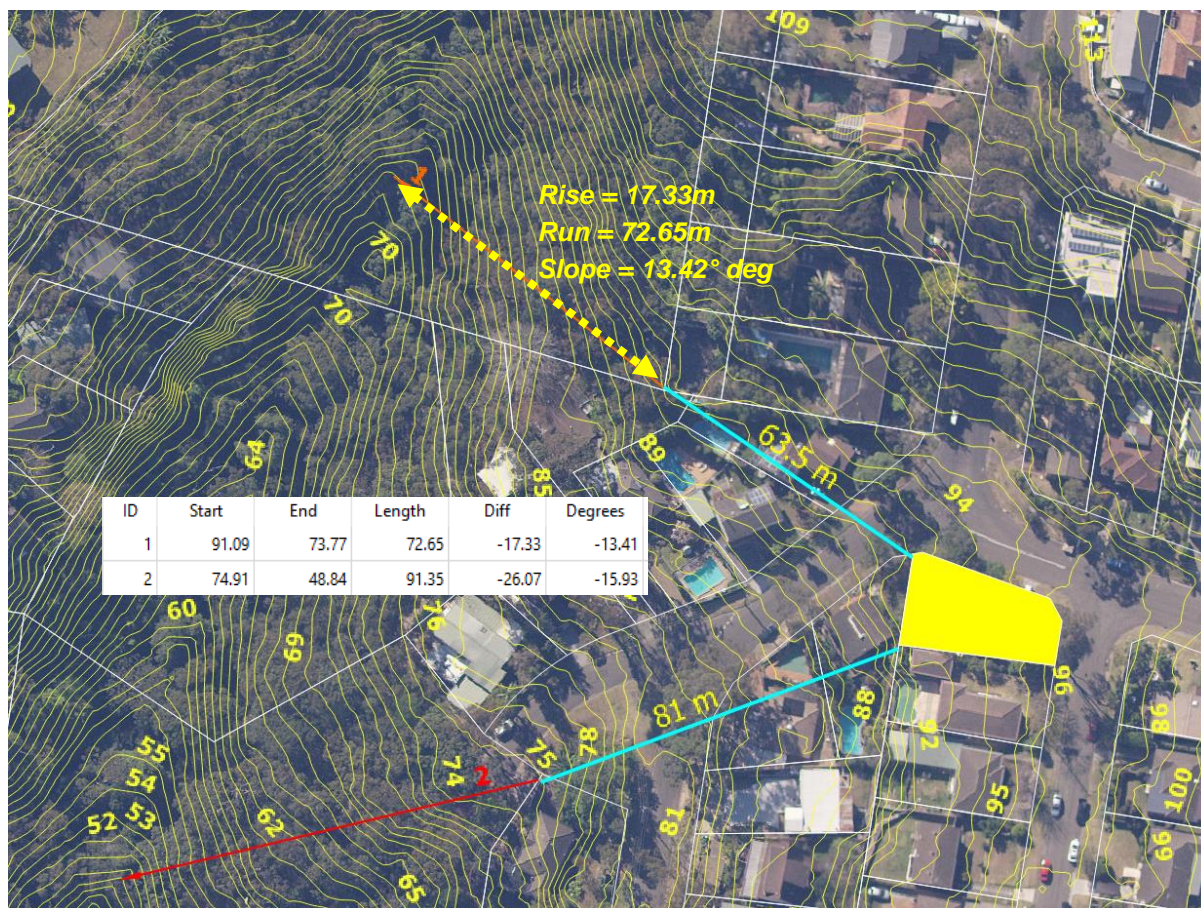


Table 2 shows the slope beneath the hazard.

Aspect	North	East	South	West
Slope	N/A	N/A	N/A	10-15 degrees downslope

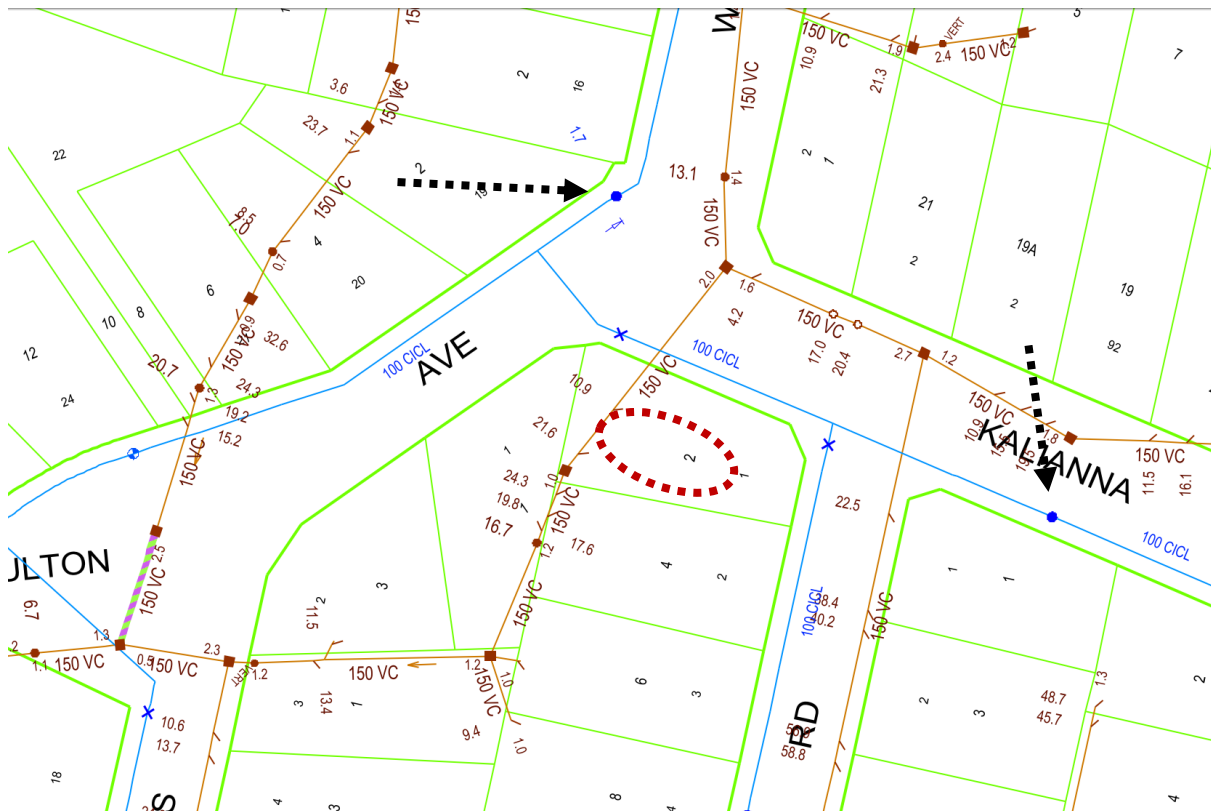
Table 2 - Any aspect marked with "N/A" in the table above indicates that it is considered there is no hazard in that direction.

7 Utilities.

7.1 Water.

The subject block will be serviced by a reticulated water supply.

The following map is an extract from Sydney waters hydrant map. Hydrants are indicated by a blue dot on a blue line. As can be seen there is at least one hydrant point indicated within close proximity of the property.



7.2 Electricity

Main's electricity is available to the block.

7.3 Gas

It is unknown if either bottled or mains gas is to be altered or installed in this proposal.

8 Access/Egress.

Access to the development site will be via a short private driveway from Kalianna Crescent.

All roads in the vicinity are considered to be capable of carrying emergency services vehicles and pedestrian access onto the lot is also considered to be adequate.

Analysis of development and recommendation.

9 Compliance with Planning for Bushfire Protection setbacks.

Based on the development design, vegetation classification, effective slope estimates and setback distance already outlined in this report the subject development will be required to comply with the deemed to satisfy construction requirements of AS 3959-2018 BAL-19 and the RFS requirements on all fire prone aspects.

The following table is an extract from table A1.12.5 of Planning for Bushfire Protection 2019. This table is used to calculate the BAL for a proposal in an area with an FDI of 100.

The variables that have already been outlined in this assessment are highlighted in red with the highest BAL highlighted in yellow.

	Keith Vegetation Formation	BUSHFIRE ATTACK LEVEL (BAL)				
		BAL-FZ	BAL-40	BAL-29	BAL-19	BAL-12.5
10-15 DEGREES DOWNSLOPE	Arid-Shrublands (acacia and chenopod)	< 7	7 -< 9	9 -< 14	14 -< 20	20 -< 100
	Forest (wet and dry sclerophyll) including Coastal Swamp Forest, Pine Plantations and Sub-Alpine Woodland	< 36	36 -< 45	45 -< 60	60 -< 77	77 -< 100
	Forested Wetland (excluding Coastal Swamp Forest)	< 15	15 -< 20	20 -< 29	29 -< 41	41 -< 100
	Freshwater Wetlands	< 5	5 -< 7	7 -< 11	11 -< 16	16 -< 100
	Grassland	< 11	11 -< 15	15 -< 23	23 -< 32	32 -< 50
	Grassy and Semi-Arid Woodland (including Mallee)	< 19	19 -< 25	25 -< 36	36 -< 49	49 -< 100
	Rainforest	< 17	17 -< 23	23 -< 34	34 -< 46	46 -< 100
	Short Heath	< 10	10 -< 13	13 -< 20	20 -< 29	29 -< 100
	Tall Heath	< 17	17 -< 22	22 -< 32	32 -< 44	44 -< 100

For the purpose of this assessment the north-western aspect has been chosen as the most potentially hazardous aspect due to the effective slope, potential run of fire and the prevailing fire weather of the area.

10 Siting.

The current site provides adequate separation between the proposed building and surrounding vegetation for a compliant structure to be built.

Recommendation;

Nil.

11 Construction and design.

All new work is to be undertaken in accordance with the relevant requirements of the NCC and AS3959 2018. The following recommendations are a minimum level of construction. Constructing the proposal to a higher level than that recommended is allowable under AS3959.

Recommendation; all new work to the northern, western and southern aspects.

1. New construction on the northern, western and southern aspects shall comply with the requirements of section 3 of Australian Standard AS3959-2018 "Construction of buildings in bush fire-prone areas" and,
2. New construction on the northern, western and southern aspects shall also comply with the requirements of BAL-19 Australian Standard AS3959-2018 "Construction of buildings in bush fire-prone areas" or NASH Standard "National Standard Steel Framed Construction in Bushfire Areas" and any additional construction requirements contained within section 7.5, 7.5.1, 7.5.2, 7.5.3, 7.5.4 (where applicable) of the Rural Fire Services document Planning for Bushfire Protection 2019.

Recommendation; all new work to the eastern aspect.

3. New construction on the eastern aspects shall comply with the requirements of section 3 of Australian Standard AS3959-2018 "Construction of buildings in bush fire-prone areas" and,
4. New construction on the eastern aspects shall also comply with the requirements of and BAL-12.5 Australian Standard AS3959-2018 "Construction of buildings in bush fire-prone areas" or NASH Standard "National Standard Steel Framed Construction in Bushfire Areas" and any additional construction requirements contained within section 7.5, 7.5.1, 7.5.2, 7.5.3, 7.5.4 (where applicable) of the Rural Fire Services document Planning for Bushfire Protection 2019.
5. New roofing valleys and guttering should be fitted with a non-combustible leaf protection to stop the accumulation of debris.

AS-3959 2018 is available as PDF from;

https://infostore.saiglobal.com/en-au/standards/as-3959-2018-122340_saig_as_as_2685241/

12 Utilities.

12.1 Water.

The proposed development will have access to a reticulated water supply. There is at least one hydrant indicated within the required distance from the dwelling.

Recommendation;

Nil.

12.2 Electricity and Gas.

Recommendation;

6. Any new electricity or gas connections are to comply with the requirements of table 7.4a of Planning for Bushfire Protection.

13 Asset Protection Zone (APZ).

The Asset Protection Zone is *“An area surrounding a development managed to reduce the bushfire hazard to an acceptable level. The width of an APZ will vary with slope, vegetation and construction level”*.

Recommendation;

7. At the commencement of building works and in perpetuity the entire property shall be managed as an Asset Protection Zone in accordance with the requirements of Planning for Bushfire Protection, the RFS document Standards for Asset Protection Zones and in a manner that does not create a bushfire hazard to the property.

14 Landscaping.

Recommendation;

8. Any new fencing is to be constructed in accordance with section 7.6 of Planning for Bushfire Protection 2019.
9. Any new landscaping to the site is to comply with the principles of Appendix 4 and section 3.7 of Planning for Bush Fire Protection 2019. In this regard the following landscaping principles are, where applicable, to be incorporated into the development¹:
 - Suitable impervious areas being provided immediately surrounding the building such as courtyards, paths and driveways;
 - Grassed areas/mowed lawns/ or ground cover plantings being provided in close proximity to the building;
 - Restrict planting in the immediate vicinity of the building which may over time and if not properly maintained come in contact with the building;
 - Maximum tree cover should be less than 30%, and maximum shrub cover less than 20%;
 - Planting should not provide a continuous canopy to the building (i.e. trees or shrubs should be isolated or located in small clusters);
 - When considering landscape species consideration needs to be given to estimated size of the plant at maturity;

¹Refer to referenced documents for a complete description.

- Avoid species with rough fibrous bark, or which retain/shed bark in long strips or retain dead material in their canopies;
- Use smooth bark species of trees species which generally do not carry a fire up the bark into the crown;
- Avoid planting of deciduous species that may increase fuel at surface/ ground level (i.e. leaf litter);
- Avoid climbing species to walls and pergolas;
- Locate combustible materials such as woodchips/mulch, flammable fuel stores away from the building;
- Locate combustible structures such as garden sheds, pergolas and materials such timber garden furniture way from the building; and
- Use of low flammability vegetation species.

15 Constraints on the subject block.

None known.

Recommendation;

Nil

16 Access/Egress.

All roads in the area are considered to be capable of handling emergency service vehicles. Access from the roadway onto the property is also considered to be adequate for firefighting purposes.

Recommendation

Nil

17 Compliance or non compliance with the specifications and requirements for bushfire protection measures.

<p>APZ</p> <p>A defendable space is provided onsite.</p> <p>An APZ is provided and maintained for the life of the development.</p>	<p>Achievable with the implementation of the recommendations in section 13</p>
<p>SITING AND DESIGN:</p> <p>Buildings are sited and designed to minimise the risk of bush fire attack.</p>	<p>Achievable with the implementation of the recommendations in section 10</p>

CONSTRUCTION STANDARDS: It is demonstrated that the proposed building can withstand bush fire attack in the form of wind, smoke, embers, radiant heat and flame contact.	Achievable with the implementation of the recommendations in section 11
ACCESS Safe, operational access is provided (and maintained) for emergency services personnel in suppressing a bush fire while residents are seeking to relocate, in advance of a bush fire, (satisfying the intent and performance criteria for access roads in sections 4.1.3 and 4.2.7).	Achievable with the implementation of the recommendations in section 16
WATER AND UTILITY SERVICES: <ul style="list-style-type: none"> adequate water and electricity services are provided for firefighting operations Gas and electricity services are located so as not to contribute to the risk of fire to a building. 	Achievable with the implementation of the recommendations in section 12
LANDSCAPING: <ul style="list-style-type: none"> it is designed and managed to minimise flame contact and radiant heat to buildings, and the potential for wind driven embers to cause Ignitions. 	Achievable with the implementation of the recommendations in section 14

18 Conclusions.

Based on the above report and with the implementation of the recommendation contained within this report the consent authority should determine that this development can comply with the requirements of AS 3959-2018 and 'Planning for Bushfire Protection' guidelines.

The recommendations contained within this report are to be implemented in their entirety. Changing one aspect may have an adverse effect on the rest of the recommendations.

Bushfires are affected by many external influences such as climactic conditions, vegetation type, moisture content of the fuel, slope of the land and human intervention to name a few and are difficult to predict.

This report does not intend to provide a guarantee that the subject property will survive if a bushfire should impact the surrounding area. The purpose of this report is to show the developments level of compliance or in some cases non-compliance with the New South Wales legislation regarding building in bushfire prone areas.

Where non-compliance is found measures will be suggested that should make the building less susceptible to the various attack mechanisms of a bushfire and comply with the performance requirements of the Building Code of Australia.

The opinions expressed in this report are based on the writers' experience and interpretation of the relevant guidelines and standards. Notwithstanding the above, these guidelines and

standards are open to interpretation. All care has been taken to ensure that the opinions expressed in this report are consistent with past successful outcomes.

Some of the information used in the compilation of this assessment has been provided by the proponent or the proponent's representatives. While we believe this information to be true and have accepted the information in good faith however this company or its representatives will not accept any responsibility if the provided information is determined to be incorrect.

This document is to assist the consenting authorities with their assessment of this proposal. The recommendations contained in this assessment reflect the normal conditions that are typically applied by the consent authority for a proposal such as this however the conditions of consent for the proposal will be supplied by the certifying authority on approval of the development and may not necessarily be the same as the recommendations of this assessment.

The recommendations in this assessment are for planning guidance only, construction details and compliance with all building requirements are the responsibility of the Architect/Designer, Builder and Certifier.

To avoid confusion, unless specifically referenced by the consenting authority, it is strongly recommended that once this proposal has been approved that this document is no longer referenced and that only the official conditions of consent as reflected in documentation by the certifying body are used for construction guidance.

If any further clarification is required for this report, please do not hesitate to contact me using the details above.

Yours Sincerely



Matthew Willis

Grad Dip Planning for Bushfire Prone Areas

Bushfire Planning Services Pty Limited

19 References.

- *Australian Building Codes Board (2019). National Construction Code Volume One - Building Code of Australia. ABCB*
- *Australian Building Codes Board (2019). National Construction Code Volume two - Building Code of Australia. ABCB.*
- *Keith, D.A. (2004). Ocean Shores to Desert Dunes: The Native Vegetation of New South Wales and the ACT. NSW Department of Environment and Conservation.*
- *National Association of Steel Framed Housing (2014). "Steel Framed Construction in Bush Fire Areas. NASH*
- *Ramsay, C and Rudolph, L (2003) "Landscape and Building Design for Bush fire Areas". CSIRO Publishing, Collingwood.*
- *Resources and Energy NSW (2016). ISSC 3 Guide for the Managing Vegetation in the Vicinity of Electrical Assets. NSW Government*
- *Rural Fire Service NSW (2005) "Standards for Asset Protection Zones"*
- *Standards Australia (2018). "AS 3959, Construction of buildings in bush fire prone areas".*
- *Standards Australia (2018). "AS/NZS 1530.8.1 Methods for fire tests on building materials, components and structures - Tests on elements of construction for buildings exposed to simulated bush fire attack - Radiant heat and small flaming sources".*
- *Standards Australia (2018). "AS/NZS 1530.8.2 Methods for fire tests on building materials, components and structures - Tests on elements of construction for buildings exposed to simulated bush fire attack - Large flaming sources".*
- *Standards Australia (2014). "AS/NZS 1596 The storage and handling of LP Gas".*

20 Appendix 1 - Plans .

Sheet Size: A3

Rapid Plans www.rapidplans.com.au
P.O. Box 6193 Frenchs Forest DC NSW 2086
Fax: (02) 9905-8865 Mobile: 0414-945-024
Email: gregg@rapidplans.com.au

Rapid Plans
Building Design and Architectural Drafting

bdaa
BUILDING DESIGNERS
ASSOCIATION OF AUSTRALIA

bdaa
ACCREDITED
BUILDING DESIGNER

DEVELOPMENT APPLICATION

Alterations & Additions To Existing Residence

For Simone Knox

2 Warekila Road, Beacon Hill

Lot 1 Sec 96 D.P. 244645

Project Number: RP1020KNO

DRAWING No.	DESCRIPTION	REV	ISSUED DATE
DA1000	Cover Sheet	-	17/8/21
DA1001	A4 NOTIFICATION PLAN	-	17/8/21
DA1002	SITE SURVEY	-	17/8/21
DA1003	SITE PLAN	-	17/8/21
DA1004	Existing Ground Floor Plan	-	17/8/21
DA1005	Existing First Floor Plan	-	17/8/21
DA1006	Demolition Ground Floor Plan	-	17/8/21
DA1007	Demolition First Floor Plan	-	17/8/21
DA1008	Landscape Open Space Plan Existing	-	17/8/21
DA1009	Landscape Open Space Plan Proposed	-	17/8/21
DA1010	Landscape Plan	-	17/8/21
DA1011	Sediment & Erosion Plan	-	17/8/21
DA1012	Waste Management Plan	-	17/8/21
DA1013	Stormwater Plan	-	17/8/21
DA2001	GROUND FLOOR	-	17/8/21
DA2002	FIRST FLOOR	-	17/8/21
DA2003	ROOF	-	17/8/21
DA3000	SECTION 1	-	17/8/21
DA3001	SECTION 2	-	17/8/21
DA4000	ELEVATIONS 1	-	17/8/21
DA4001	ELEVATIONS 2	-	17/8/21
DA5000	PERSPECTIVE	-	17/8/21
DA5001	MATERIAL & COLOUR SAMPLE BOARD	-	17/8/21
DA5002	SHADOW PLAN 21st June 9am	-	17/8/21
DA5003	SHADOW PLAN 21st June 12pm	-	17/8/21
DA5004	SHADOW PLAN 21st June 3pm	-	17/8/21
DA5005	WALL ELEVATION SHADOWS	-	17/8/21

Can Do Home Loans

2 Warekila Rd, Beacon Hill NSW 2100

BASIX Certificate
Building Sustainability Index www.basix.nsw.gov.au
Alterations and Additions
Certificate number: A428154

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Alterations and Additions Definitions" dated 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary
Date of issue: Tuesday, 17, August 2021
To be valid, this certificate must be lodged within 3 months of the date of issue.

NSW Planning, Industry & Environment

Description of project

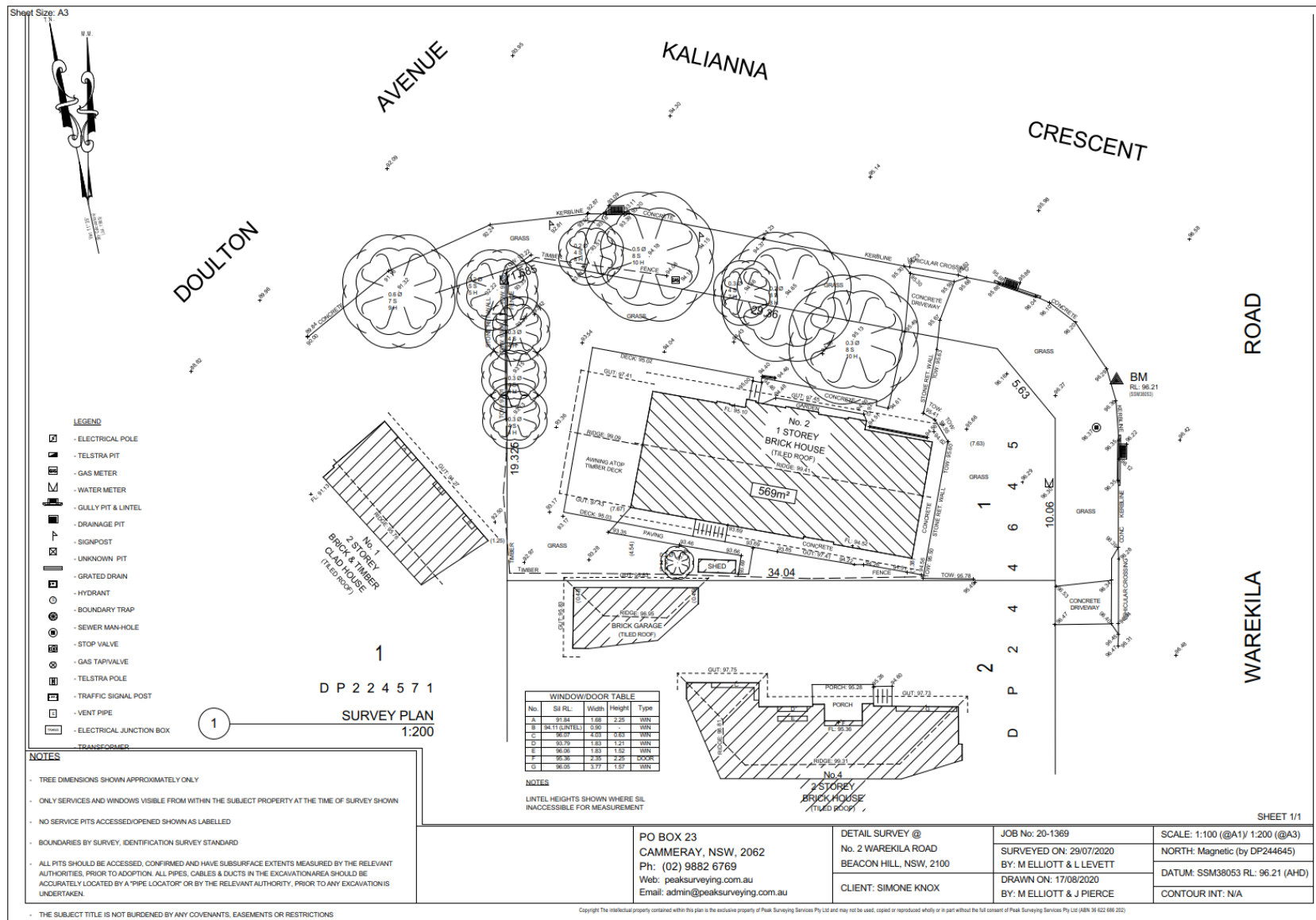
Project address	
Project name	Knox
Street address	2 Warekila Road Beacon Hill 2100
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 244645
Lot number	1
Section number	96

Project type	
Dwelling type	Separate dwelling house
Type of alteration and addition	My renovation work is valued at \$50,000 or more, and does not include a pool (and/or spa).

Certificate Prepared by (please complete before submitting to Council or PCA)

Name / Company Name: Rapid Plans

ABN (if applicable): 43150064592

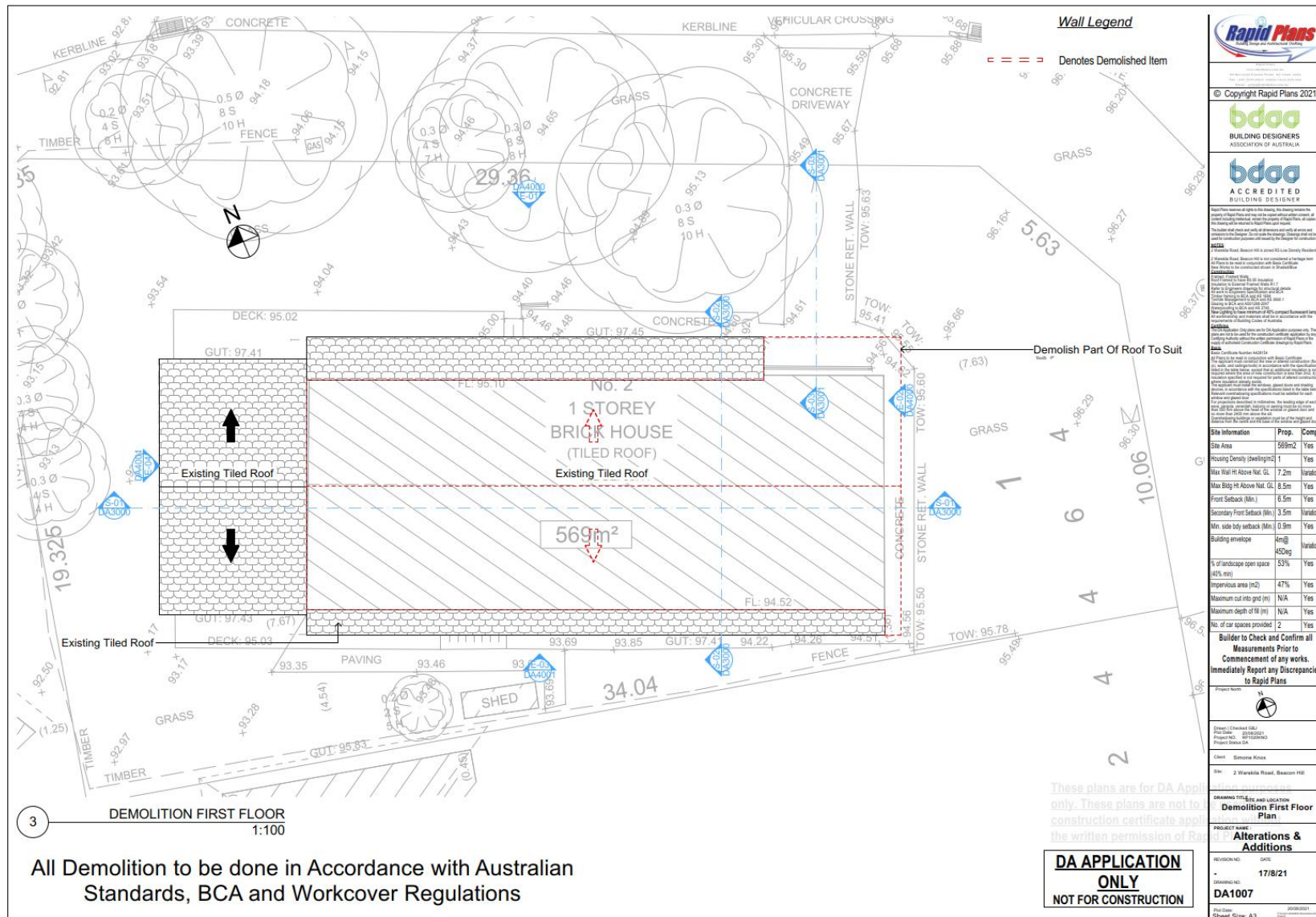






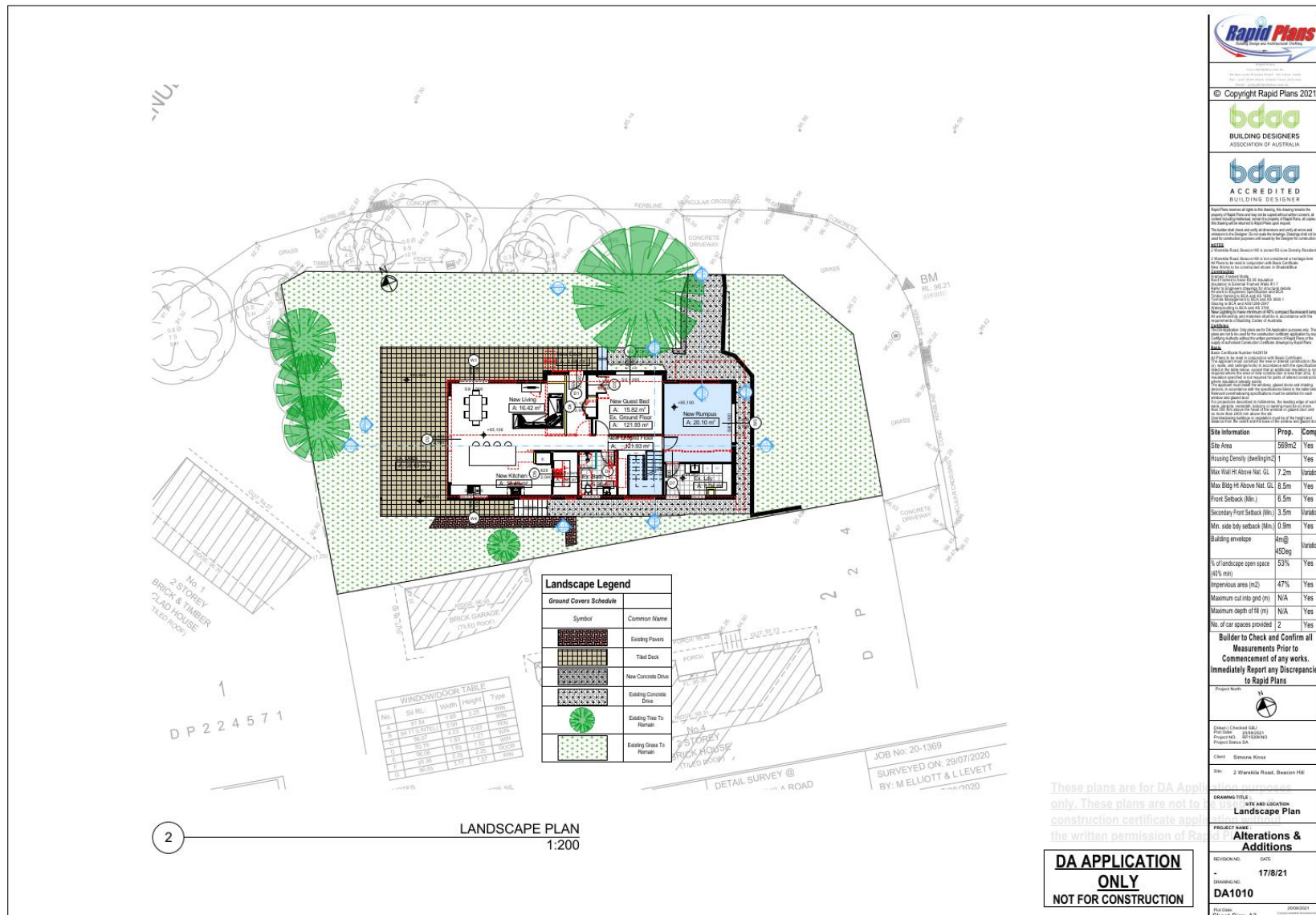


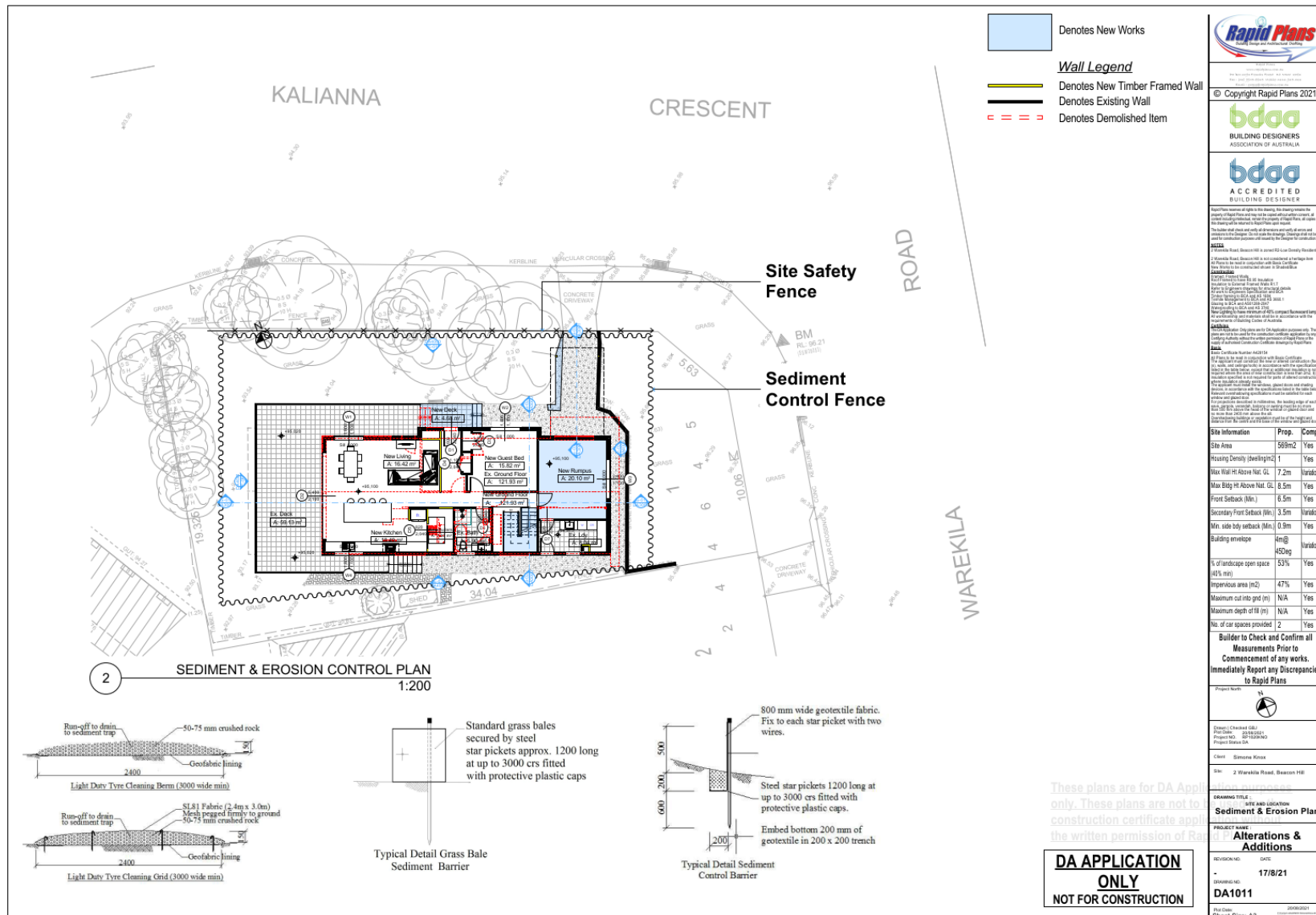








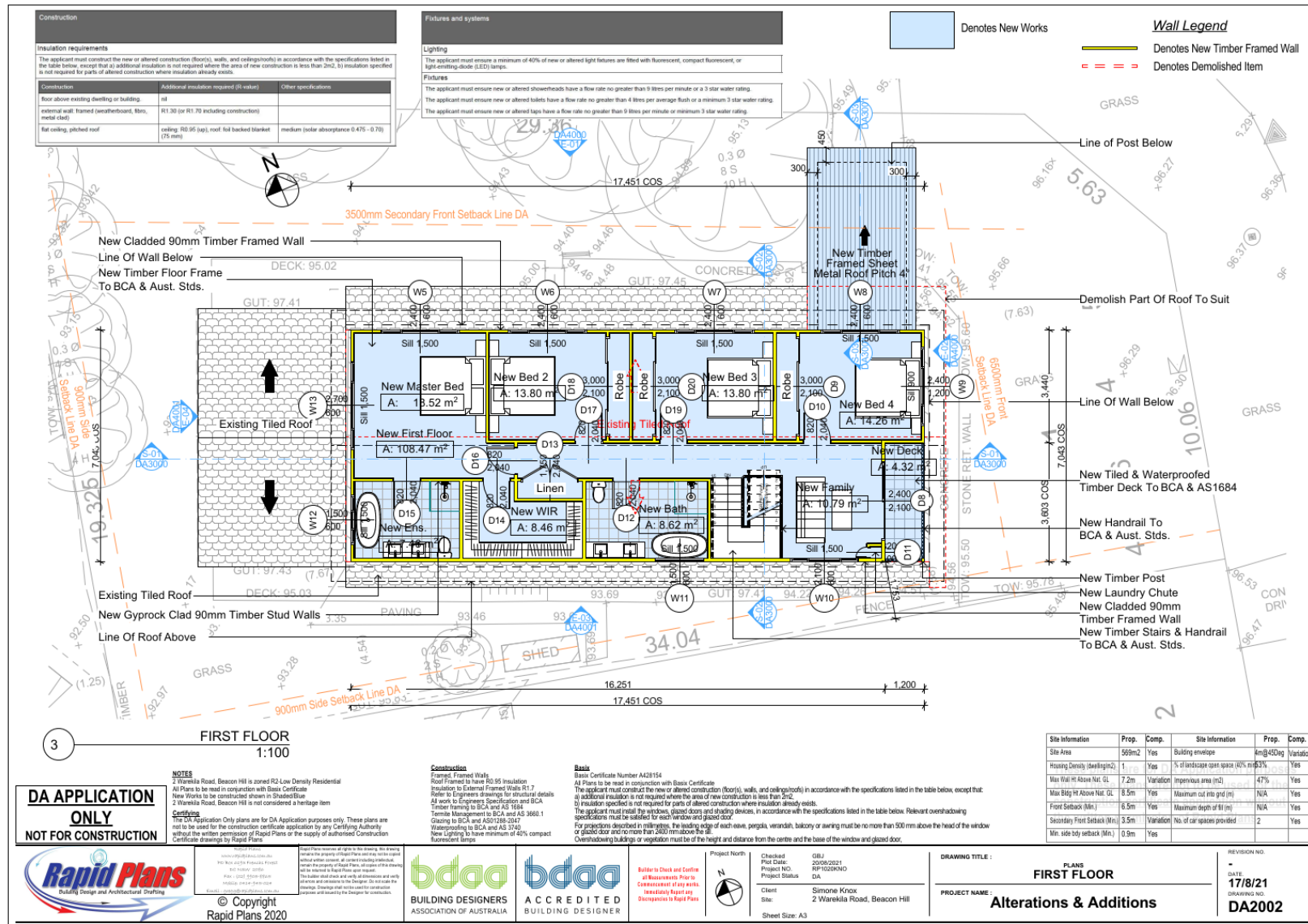


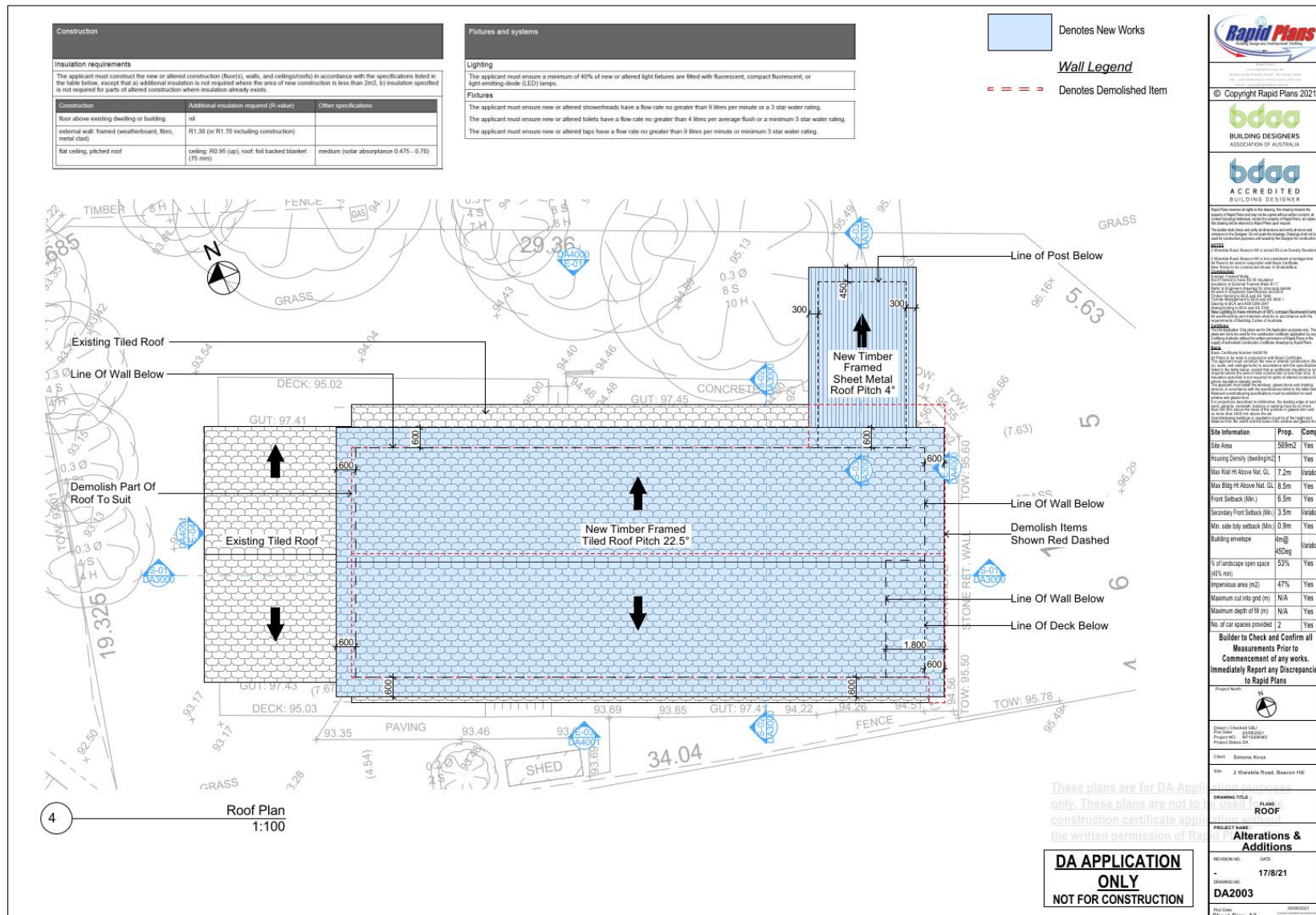












Rapid Plans
Building Designers Association of Australia

© Copyright Rapid Plans 2021

bdac
BUILDING DESIGNERS ASSOCIATION OF AUSTRALIA

ACCREDITED BUILDING DESIGNER

Notes:

1. These plans are prepared for the DA Application only. They are not to be used for construction purposes. The applicant must ensure that the plans are used in accordance with the relevant legislation and standards. The applicant must ensure that the plans are used in accordance with the relevant legislation and standards. The applicant must ensure that the plans are used in accordance with the relevant legislation and standards.

Site Information

Item	Prop.	Comp.
Site Area	569m ²	Yes
Housing Density (dwelling/m ²)	1	Yes
Max Wall Ht Above Nat. GL	7.2m	Varies
Max Bldg Ht Above Nat. GL	8.5m	Yes
Front Setback (m)	8.5m	Yes
Secondary Front Setback (m)	3.5m	Varies
Min. side set back (m)	0.8m	Yes
Building envelope	4m @ 45deg	Varies
% of landscape open space (4% min)	53%	Yes
Impervious area (m ²)	47%	Yes
Maximum cut into gnd (m)	N/A	Yes
Maximum depth of fill (m)	N/A	Yes
No. of car spaces provided	2	Yes

Builder to Check and Confirm all Measurements Prior to Commencement of any works. Immediately Report any Discrepancies to Rapid Plans

Project Name: **2 Warekila Road, Beacon Hill**

Client: **Concrete Works**

DA Title: **DA Application**

Project No: **DA2003**

Project Status: **DA**

DA Title: **DA Application**

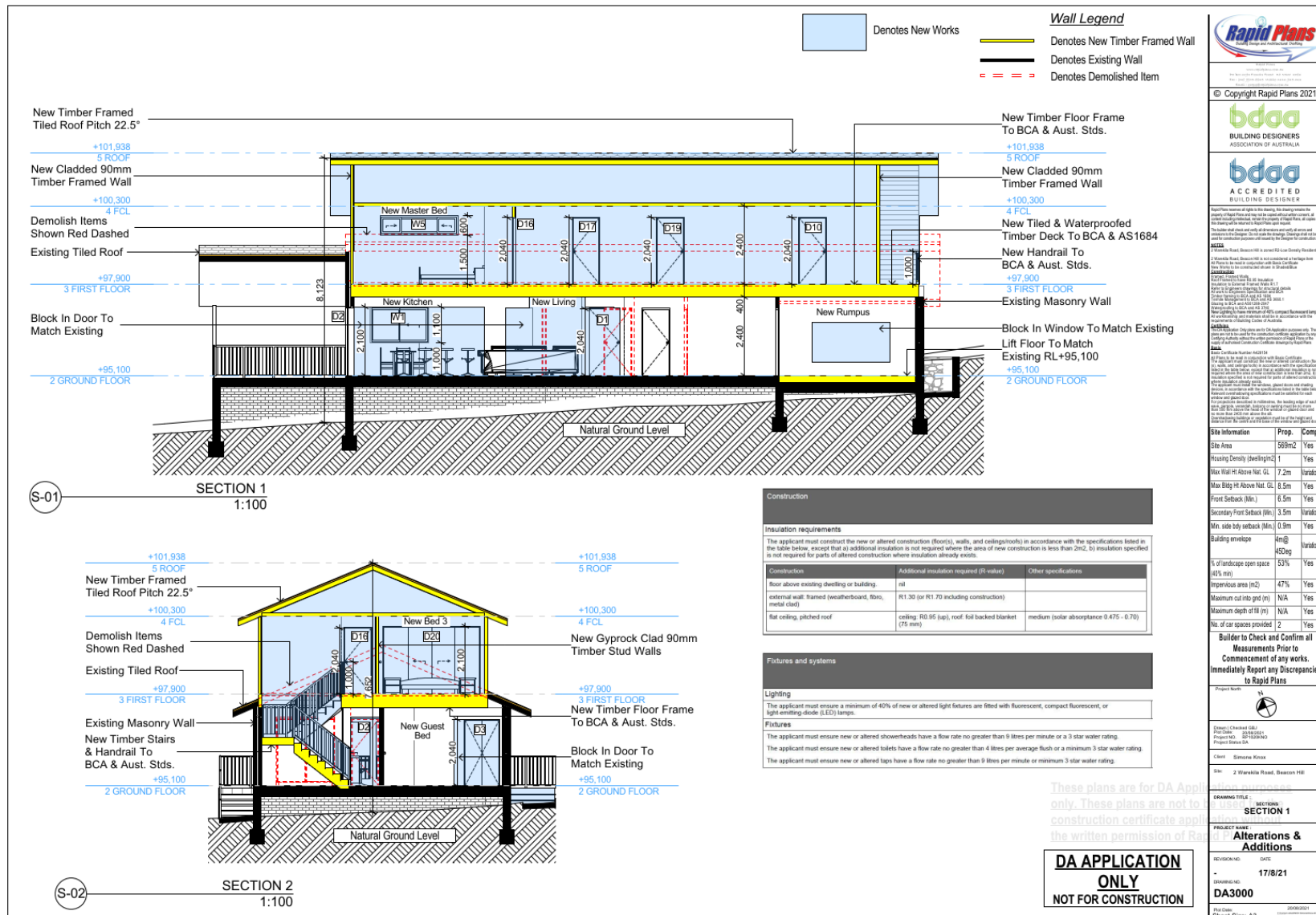
Project No: **DA2003**

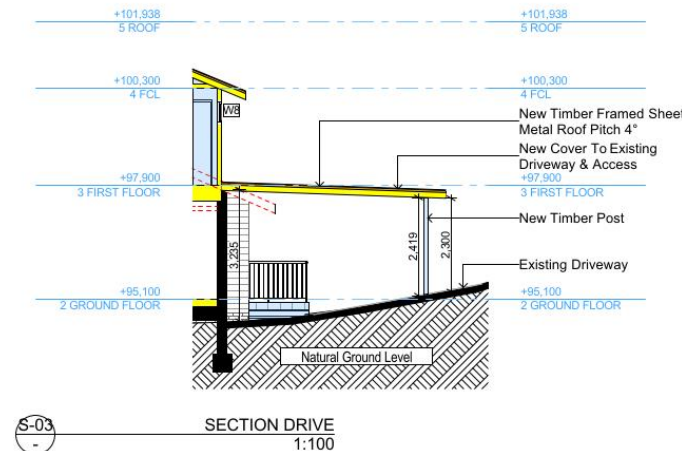
Project Status: **DA**

DA Title: **DA Application**

Project No: **DA2003**

Project Status: **DA**





- Denotes New Works
- Wall Legend**
- Denotes New Timber Framed Wall
 - Denotes New Masonry Wall
 - Denotes New Concrete Block Wall
 - Denotes New Concrete
 - Denotes Existing Wall
 - Denotes Demolished Item

Rapid Plans
Building Designers Association of Australia

© Copyright Rapid Plans 2021

bdaa
BUILDING DESIGNERS
ASSOCIATION OF AUSTRALIA

bdaa
ACCREDITED
BUILDING DESIGNER

Notes:
1. These plans are for DA Application only. These plans are not to be used for construction purposes. The building owner is responsible for ensuring that the plans are used for the intended purpose. The building owner is responsible for ensuring that the plans are used for the intended purpose. The building owner is responsible for ensuring that the plans are used for the intended purpose.

Site Information

Item	Prop.	Comp.
Site Area	569m ²	Yes
Housing Density (dwelling/m ²)	1	Yes
Max Wall Ht Above Nat. GL	7.2m	Yes
Max Bldg Ht Above Nat. GL	8.5m	Yes
Front Setback (Min.)	8.5m	Yes
Secondary Front Setback (Min.)	3.5m	Yes
Min. side set back (Min.)	0.8m	Yes
Building envelope	4m @ 450kg	Yes
% of landscape open space (4% min)	53%	Yes
Impervious area (m ²)	47%	Yes
Maximum cut into gnd (m)	N/A	Yes
Maximum depth of fill (m)	N/A	Yes
No. of car spaces provided	2	Yes

Builder to Check and Confirm all Measurements Prior to Commencement of any works. Immediately Report any Discrepancies to Rapid Plans

Project Name: 2 Warekila Road, Beacon Hill

Drawn: [Name]
Check: [Name]
Project No: 20210000
Project Status: DA

Client: Concrete Kiosk

Site: 2 Warekila Road, Beacon Hill

DRAWING TITLE: SECTIONS SECTION 2

PROJECT NAME: Alterations & Additions

REVISION NO: DATE: 17/8/21

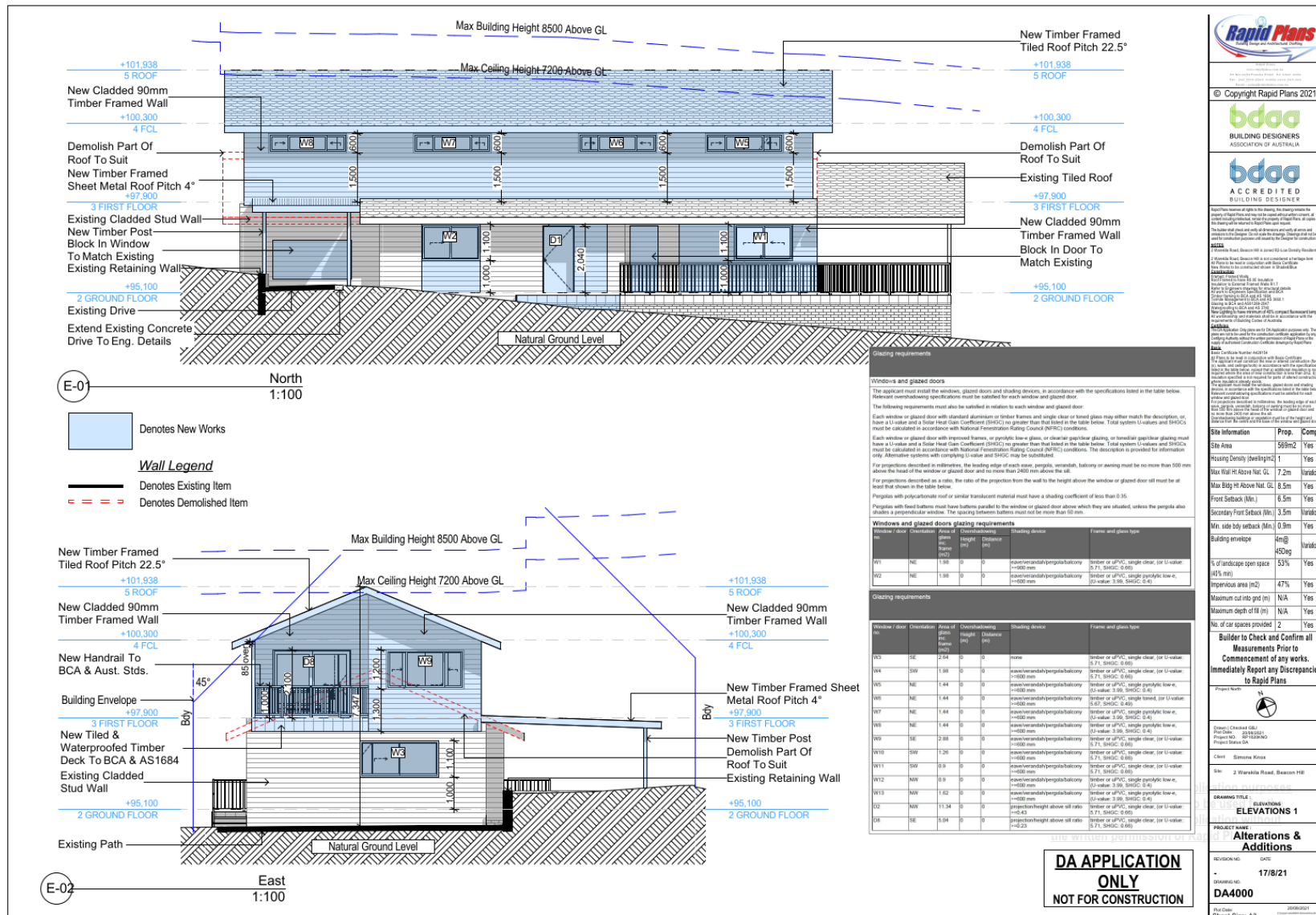
DRAWING NO: DA3001

Project Name: 2 Warekila Road, Beacon Hill

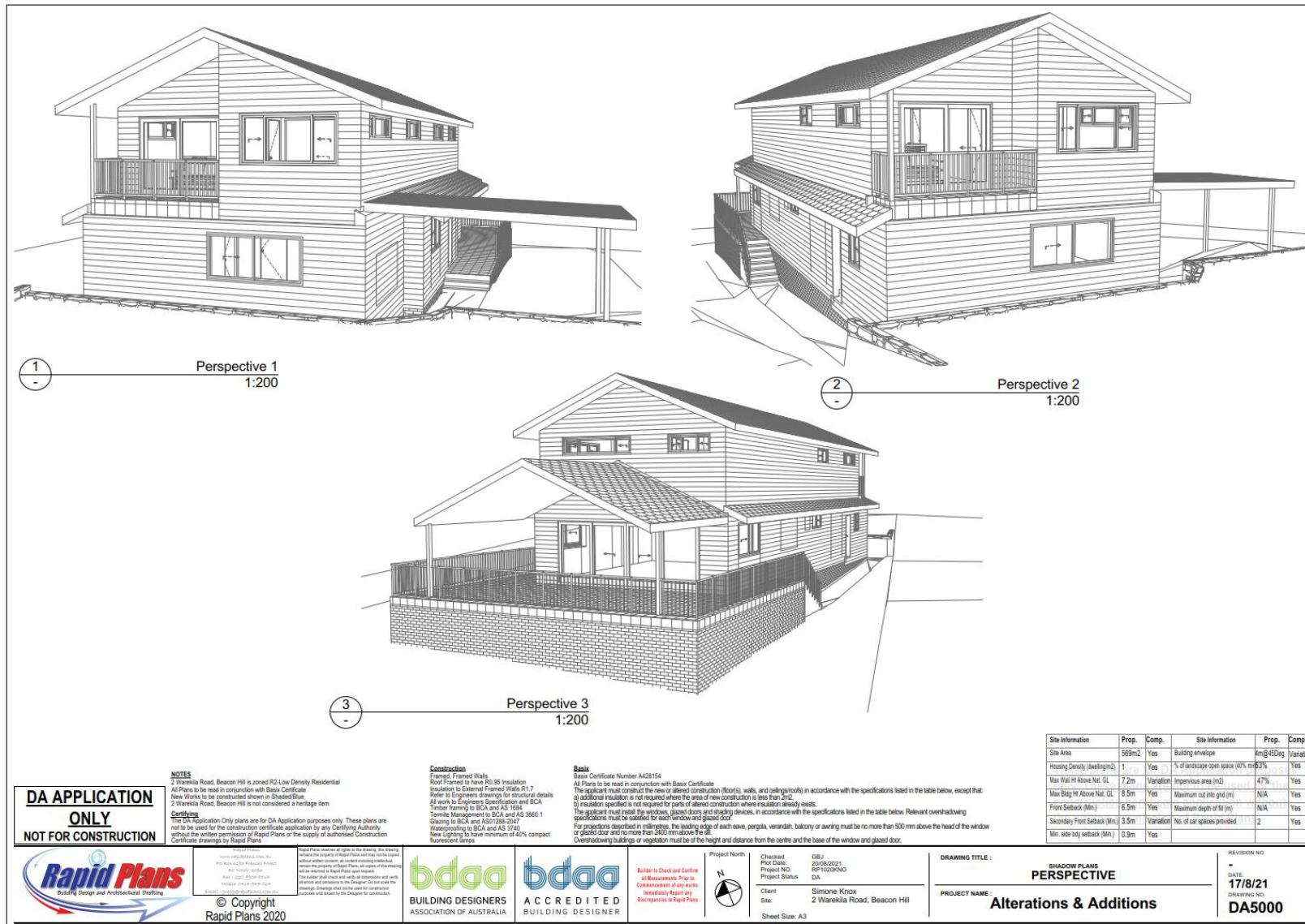
Sheet Size: A3

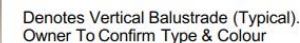
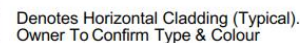
These plans are for DA Application only. These plans are not to be used for construction certificate application without the written permission of Rapid Plans.

DA APPLICATION ONLY
NOT FOR CONSTRUCTION









Glazing requirements						
Window / door no.	Orientation	Area of glass etc. (m ²)	Overhang/shading Height (m)	Distance (m)	Shading device	Frame and glass type
W3	SE	2.64	0	0	none	timber or uPVC, single clear, or U-value 5.71, SHGC 0.66
W4	SW	1.98	0	0	eave/verandah/pergola/balcony =>600 mm	timber or uPVC, single clear, or U-value 5.71, SHGC 0.66
W5	NE	1.44	0	0	eave/verandah/pergola/balcony =>600 mm	timber or uPVC, single plyclic low-e, U-value 3.90, SHGC 0.43
W6	NE	1.44	0	0	eave/verandah/pergola/balcony =>600 mm	timber or uPVC, single toned, or U-value 5.67, SHGC 0.66
W7	NE	1.44	0	0	eave/verandah/pergola/balcony =>600 mm	timber or uPVC, single plyclic low-e, U-value 3.90, SHGC 0.43
W8	NE	1.44	0	0	eave/verandah/pergola/balcony =>600 mm	timber or uPVC, single plyclic low-e, U-value 3.90, SHGC 0.43
W9	SE	2.88	0	0	eave/verandah/pergola/balcony =>600 mm	timber or uPVC, single clear, or U-value 5.71, SHGC 0.66
W10	SW	1.26	0	0	eave/verandah/pergola/balcony =>600 mm	timber or uPVC, single clear, or U-value 5.71, SHGC 0.66
W11	SW	0.9	0	0	eave/verandah/pergola/balcony =>600 mm	timber or uPVC, single clear, or U-value 5.71, SHGC 0.66
W12	NW	0.9	0	0	eave/verandah/pergola/balcony =>600 mm	timber or uPVC, single plyclic low-e, U-value 3.90, SHGC 0.43
W13	NW	1.62	0	0	eave/verandah/pergola/balcony =>600 mm	timber or uPVC, single plyclic low-e, U-value 3.90, SHGC 0.43
D2	NW	11.34	0	0	projection/height above sill ratio =>6:43	timber or uPVC, single clear, or U-value 5.71, SHGC 0.66
D8	SE	5.04	0	0	projection/height above sill ratio =>23	timber or uPVC, single clear, or U-value 5.71, SHGC 0.66



© Copyright Rapid Plans 2015



BUILDING DESIGNERS ASSOCIATION OF AUSTRALIA



ACCREDITED BUILDING DESIGNER

As the Principal Designer of this Building, the Design Professional has accepted the obligations of the Building Designers Association of Australia (BDAA) and is committed to the BDAA Code of Ethics and the BDAA Code of Practice. The Design Professional is a member of the BDAA and is committed to the BDAA Code of Ethics and the BDAA Code of Practice.

SECTION 1: PROJECT INFORMATION

1.1 PROJECT NAME: Rapid Plan Building Design Services

1.2 PROJECT ADDRESS: 123 Main Street, Sydney NSW 1500

1.3 PROJECT TYPE: Commercial Building

1.4 PROJECT DESCRIPTION: A new commercial building with a total floor area of 10,000 sqm, including a parking garage and a retail area.

1.5 PROJECT STATUS: Design Stage

1.6 PROJECT CONTACT: John Doe, Project Manager

1.7 PROJECT CONTACT DETAILS: Phone: 02 1234 5678, Email: john.doe@rapidplan.com.au

1.8 PROJECT START DATE: 15/01/2015

1.9 PROJECT COMPLETION DATE: 31/12/2015

1.10 PROJECT BUDGET: \$1,000,000

1.11 PROJECT RISK: Low

1.12 PROJECT NOTES: All dimensions are in meters unless otherwise stated. The design is subject to change without notice.

2. SITE INFORMATION

2.1 SITE ADDRESS: 123 Main Street, Sydney NSW 1500

2.2 SITE AREA: 500 sqm

2.3 SITE ZONE: B1 - Business 1

2.4 SITE SURROUNDINGS: Adjacent to a residential area and a commercial area.

2.5 SITE ACCESS: Access via Main Street and a side street.

2.6 SITE ELEVATION: Sea Level

2.7 SITE CLIMATE: Temperate

2.8 SITE SOIL: Clay

2.9 SITE VEGETATION: None

2.10 SITE UTILITIES: Water, Gas, Electricity, Sewerage

2.11 SITE CONSTRAINTS: None

2.12 SITE NOTES: The site is located in a prime commercial area and is well served by public transport.

3. BUILDING INFORMATION

3.1 BUILDING NAME: Rapid Plan Building

3.2 BUILDING ADDRESS: 123 Main Street, Sydney NSW 1500

3.3 BUILDING TYPE: Commercial Building

3.4 BUILDING DESCRIPTION: A new commercial building with a total floor area of 10,000 sqm, including a parking garage and a retail area.

3.5 BUILDING STATUS: Design Stage

3.6 BUILDING CONTACT: John Doe, Project Manager

3.7 BUILDING CONTACT DETAILS: Phone: 02 1234 5678, Email: john.doe@rapidplan.com.au

3.8 BUILDING START DATE: 15/01/2015

3.9 BUILDING COMPLETION DATE: 31/12/2015

3.10 BUILDING BUDGET: \$1,000,000

3.11 BUILDING RISK: Low

3.12 BUILDING NOTES: All dimensions are in meters unless otherwise stated. The design is subject to change without notice.

4. MEASUREMENTS

4.1 MEASUREMENT TYPE: Area

4.2 MEASUREMENT UNIT: sqm

4.3 MEASUREMENT VALUE: 10,000

4.4 MEASUREMENT NOTES: The measurement is based on the floor plan and is subject to change without notice.

5. IMMEDIATELY REPORT ANY DISCREPANCIES TO RAPID PLANS

5.1 PROJECT NAME: Rapid Plan Building

5.2 PROJECT ADDRESS: 123 Main Street, Sydney NSW 1500

5.3 PROJECT TYPE: Commercial Building

5.4 PROJECT DESCRIPTION: A new commercial building with a total floor area of 10,000 sqm, including a parking garage and a retail area.

5.5 PROJECT STATUS: Design Stage

5.6 PROJECT CONTACT: John Doe, Project Manager

5.7 PROJECT CONTACT DETAILS: Phone: 02 1234 5678, Email: john.doe@rapidplan.com.au

5.8 PROJECT START DATE: 15/01/2015

5.9 PROJECT COMPLETION DATE: 31/12/2015

5.10 PROJECT BUDGET: \$1,000,000

5.11 PROJECT RISK: Low

5.12 PROJECT NOTES: All dimensions are in meters unless otherwise stated. The design is subject to change without notice.

6. DRAWING INFORMATION

6.1 DRAWING NAME: Rapid Plan Building

6.2 DRAWING ADDRESS: 123 Main Street, Sydney NSW 1500

6.3 DRAWING TYPE: Commercial Building

6.4 DRAWING DESCRIPTION: A new commercial building with a total floor area of 10,000 sqm, including a parking garage and a retail area.

6.5 DRAWING STATUS: Design Stage

6.6 DRAWING CONTACT: John Doe, Project Manager

6.7 DRAWING CONTACT DETAILS: Phone: 02 1234 5678, Email: john.doe@rapidplan.com.au

6.8 DRAWING START DATE: 15/01/2015

6.9 DRAWING COMPLETION DATE: 31/12/2015

6.10 DRAWING BUDGET: \$1,000,000

6.11 DRAWING RISK: Low

6.12 DRAWING NOTES: All dimensions are in meters unless otherwise stated. The design is subject to change without notice.

7. MATERIAL & COLOR SAMPLE BOARD

7.1 MATERIAL NAME: Rapid Plan Building

7.2 MATERIAL ADDRESS: 123 Main Street, Sydney NSW 1500

7.3 MATERIAL TYPE: Commercial Building

7.4 MATERIAL DESCRIPTION: A new commercial building with a total floor area of 10,000 sqm, including a parking garage and a retail area.

7.5 MATERIAL STATUS: Design Stage

7.6 MATERIAL CONTACT: John Doe, Project Manager

7.7 MATERIAL CONTACT DETAILS: Phone: 02 1234 5678, Email: john.doe@rapidplan.com.au

7.8 MATERIAL START DATE: 15/01/2015

7.9 MATERIAL COMPLETION DATE: 31/12/2015

7.10 MATERIAL BUDGET: \$1,000,000

7.11 MATERIAL RISK: Low

7.12 MATERIAL NOTES: All dimensions are in meters unless otherwise stated. The design is subject to change without notice.

8. Alterations & Additions

8.1 ALTERATION NAME: Rapid Plan Building

8.2 ALTERATION ADDRESS: 123 Main Street, Sydney NSW 1500

8.3 ALTERATION TYPE:

DA APPLICATION ONLY
NOT FOR CONSTRUCTION