



Reference number 2710

Member of the Fire Protection Association of Australia

Lot 16, DP 30325, 70 Lane Cove Road, Ingleside, NSW 2101.

Friday, 6 December 2019

Prepared and certified by:	Matthew Willis BPAD – Level3 Certified Practitioner Certification No: BPD-PA 09337	Math historia	06/12/2019
• •	comply with AS3959-2009 addendum 3)?	Yes	5
What is the recommended AS 3959-2009 level of compliance?		BAL-29 and	BAL-19
Is referral to	the RFS required?	No	1
	pment comply with the nents of PBP?	Yes	S
	/ Acrhitects" (Appendix 1) dated.	4/12/2	019

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Bushfire Planning Services

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Bushfire Risk Assessment

Friday, 6 December 2019

Contact

Edward Seeto

Dragonfly Acrhitects

14 Cook Street

Forestville NSW 2087

0421 846 288

Subject Property

Lot 16, DP 30325 70 Lane Cove Road Ingleside NSW 2101





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 16, DP 30325, number 70 Lane Cove Road Ingleside
Description of the Proposal	Alterations and additions to an existing dwelling
Plan Reference	4/12/2019
BAL Rating	BAL-29 and BAL-19
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 Appendix 4 of Planning for Bushfire Protection 2006 together with recommendations as to how the relevant Specifications and requirements are to be achieved.

I hereby certify, in accordance with Section 79BA 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 79 BA(1)(a) 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 (Pittwater) 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 2006.

REPORT REFERENCE	Friday, 6 December 2019
REPORT DATE	Friday, 6 December 2019
CERTIFICATION NO/ACCREDITED SCHEME	FPAA BPAD A BPD-PA 09337

Attachments:

- Bushfire Risk Assessment Report
- Recommendations

SIGNATURE: --- DATE: ----Friday, 6 December 2019





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1 Executive Summary

Bushfire Planning Services has been requested by Mr Edward Seeto of Dragonfly Acrhitects to supply a bushfire compliance report on lot 16, DP 30325, 70 Lane Cove Road. 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 northern side of Lane Cove Road and at its closest point to the hazard the proposed new work has a separation distance to the east of approximately 49.6m. There is hazardous vegetation within the subject lot however it will be recommended for management as part of this assessment.

The offsite 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 5.95° deg. 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 rural residential 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 3959-2009 BAL-29 on its exposed northern, eastern and southern aspects, BAL-19 on the western aspects and the Rural Fire Services requirements contained within the addendum to appendix 3 of Planning for Bushfire Protection on all aspects.

It is my considered opinion that this development can comply with the requirements of AS 3959-2009 and Planning for Bushfire Protection 2006.

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Table 1 is a	summary of th	e relevant finding	s of this assessment.

Aspect	North	East	South	West
Vegetation type	Managed land	Managed land/forest	Managed land/forest	Managed land
Slope	N/A	5-10 degrees downslope	All up-slopes and flat land	N/A
Setback within lot 16	N/A	49.6m	25m ¹	N/A
Setback outside lot 16	N/A	0m	N/A	N/A
Total setback	N/A	49.6m	25m	N/A
Bal level	N/A	29	29	N/A

Table 1 - Any aspect marked with "N/A" in the table above indicates that it is considered there is no hazard in that direction. Only the details for the aspect that is considered to be at the greatest risk from bushfire is shown in the table above. THIS TABLE IS NOT CONSTRUCTION ADVICE.

-

¹ To be established.





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 2006 (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 2006. 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 northern side of Lane Cove Road in an established area of Ingleside.

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

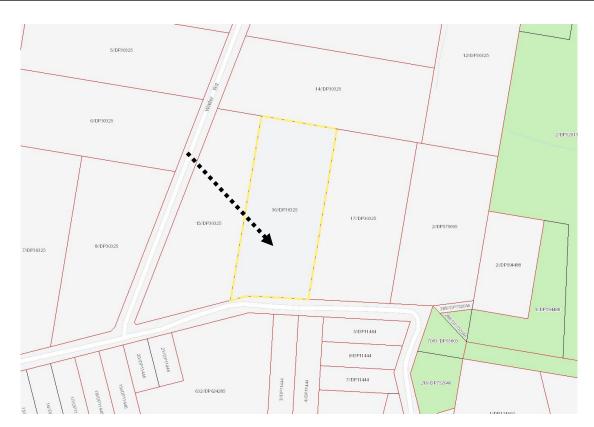
The lands surrounding the proposed site on the subject lot to a distance of at least 49.6m contain existing residential development and associated gardens or land that is otherwise not considered to be a significant bushfire hazard.

- Lot: 16
- DP; 30325.
- LGA; Northern Beaches (Pittwater).
- Area; 2 ha (approximately).
- Address; 70 Lane Cove Road, Ingleside.

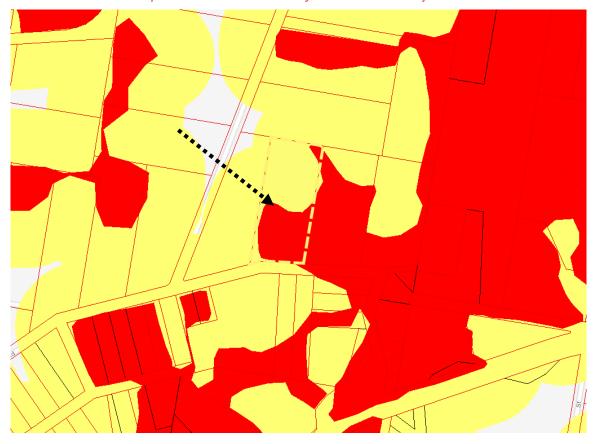
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Map 1 shows the cadastral layout around the subject lot.



Map 2 is an extract from the councils' bushfire prone land map. The map shows lot 16 to both contain and 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 east.

For the purpose of this assessment and compliance with AS3959 this area of undeveloped land is considered to be Forest and is the hazard to this proposal.

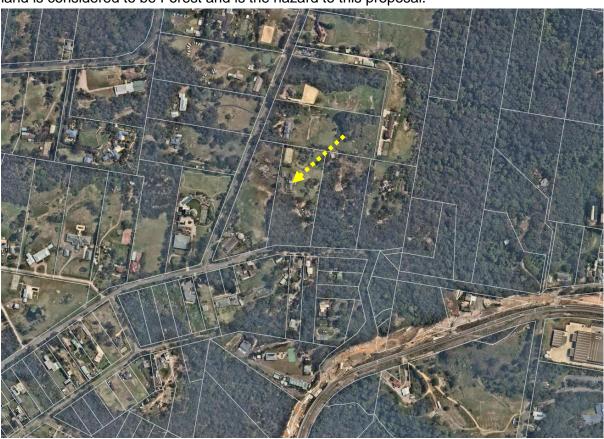


Photo 1 - An overview of the vegetation within the general area.

This area has been left intentionally blank.







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

Table 2 outlines the vegetation orientation and distance from the development area.

Aspect	North	East	South	West
Vegetation type	Managed land	Managed land/forest	Managed land/forest	Managed land
Setback within lot 16	N/A	49.6m	25m	N/A
Off-site setback	N/A	0m	N/A	N/A
Total setback	N/A	49.6m	25m	N/A

Table 2 - 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 3.

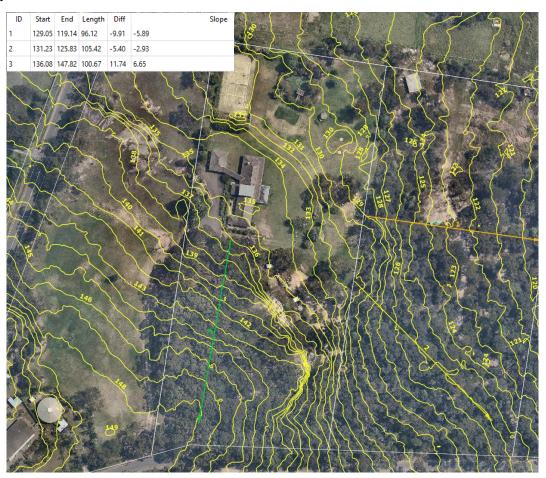


Table 3 shows the slope beneath the hazard.

Aspect	North	East	South	West
Slope	N/A	5-10 degrees downslope	All up-slopes and flat land	N/A

Table 3 - 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 the general area of the property.



7.2 Electricity

Mains electricity is available to the block.

7.3 Gas

It is unknown if bottled 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 Lane Cove Road.

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 AS 3959-2009

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 3959-2009 BAL-29 and the RFS requirements on all fire prone aspects.

The following table is an extract from table 2.4.2 of AS3959-2009. 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.

TABLE 2.4.2
DETERMINATION OF BUSHFIRE ATTACK LEVEL (BAL)—FDI 100 (1090 K)

	1				
		Bushfire	Attack Levels (B	SALs)	
Vegetation	BAL—FZ	BAL-40	BA L-29	BAL-19	BAL-12.5
classification	Dista	ance (m) of the site	from the predomi	nant vegetation	class
		Downs	slope >5 to 10 deg	rees	
A. Forest	<31	31-<39	39-<53	53-<69	69-<100
B. Woodland	<20	20-<26	26-<37	37-<50	50-<100
C. Shrubland	<8	8-<11	11-<17	17-<25	25-<100
D. Scrub	<12	12-<17	17-<24	24-<35	35-<100
E. Mallee/Mulga	<7	7-<10	10-<15	15-<23	23-<100
F. Rainforest	<13	13-<18	18-<26	26-<36	36-<100
G. Grassland	<8	8-<11	11-<17	17-<25	25-<50

For the purpose of this assessment the eastern 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 BCA and AS3959 2009. 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, eastern and southern aspects.

- 1. New construction on the northern, eastern and southern aspects shall comply with the requirements of section 3 of Australian Standard AS3959-2009 "Construction of buildings in bush fire-prone areas" and,
- 2. New construction on the northern, eastern and southern aspects shall also comply with the requirements of BAL-29 Australian Standard AS3959-2009 "Construction of buildings in bush fire-prone areas" and section A3.7 Addendum Appendix 3 of "Planning for Bush fire Protection".

Recommendation; all new work to the western aspect.

- 3. New construction on the western aspect shall comply with the requirements of section 3 of Australian Standard AS3959-2009 "Construction of buildings in bush fire-prone areas" and.
- 4. New construction on the western aspect shall also comply with the requirements of BAL-19 Australian Standard AS3959-2009 "Construction of buildings in bush fire-prone areas" and section A3.7 Addendum Appendix 3 of "Planning for Bush fire Protection".

Recommendation; entire building.

- 5. Any new fencing to be property should be in accordance with Rural Fire Service "Fast Fact 2/06".
- 6. New roofing valleys and guttering should be fitted with a non-combustible leaf protection to stop the accumulation of debris.

12 Utilities

12.1 Water

The proposed development will not have access to a reliable reticulated water supply resulting in the need for a Static Water Supply (SWS) to be established on site for firefighting purposes.

The water supply is to be established in accordance with the following;

Recommendation;

- 7. A 20,000 L water supply is to be made available for firefighting purposes and be constructed in accordance with the following features.
 - Above ground tanks are manufactured of concrete or metal and raised tanks are to have their stands protected. Plastic tanks shall not be used.
- A 65mm metal Storz outlet with a gate or ball valve shall be provided.





- A hardened ground surface for truck access is to be supplied up to and within 4 metres of the water source.
- The water source shall be made available or located within the inner protection area (IPA) and away from the structure.
- The gate or ball valve, pipes and tank penetration are adequate for full 50mm inner diameter water flow through the Storz fitting and are metal.
- A minimum 5hp or 3kW petrol or diesel-powered pump shall be made available to the water supply. The pump should be attached to a suitable firefighting hose.
- An 'SWS' marker shall be obtained from the local NSW Rural Fire Service and positioned for ease of identification by brigade personnel and other users of the SWS. In this regard:
 - o a) Markers must be fixed in a suitable location so as to be highly visible; and
 - b) Markers should be positioned adjacent to the most appropriate access for the static water supply.

If the pool is to be used as a static water supply recommendation 7 may be ignored however the following applies.

- 8. A hardened ground surface for truck access is to be supplied within 4 metres of the water source.
 - A minimum 5hp or 3kW petrol or diesel-powered pump shall be made available to the water supply. The pump should be attached to a suitable firefighting and suction hose.
 - An 'SWS' marker shall be obtained from the local NSW Rural Fire Service and positioned for ease of identification by brigade personnel and other users of the SWS. In this regard:
 - a) Markers must be fixed in a suitable location so as to be highly visible; and
 - b) Markers should be positioned adjacent to the most appropriate access for the static water supply.

12.2 Electricity and Gas

Recommendation;

9. Any new electricity or gas connections are to comply with the requirements of section 4.1.3 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;

- 10. At the commencement of building works and in perpetuity the property around the building shall be managed as follows as outlined within section 4.1.3 and appendix 5 of planning for bushfire protection 2006 and the New South Wales Rural Fire Service document standards for Asset Protection Zones:
 - North as an Asset Protection Area to the property boundary.
 - East as an Asset Protection Area to the property boundary.
 - West as an Inner Protection Area to the property boundary.
 - South as an Inner Protection Area for at least 25m.

14 Landscaping

No specific landscaping plan has been provided as part of this assessment.

Recommendation:

- 11. Any new landscaping to the site is to comply with the principles of Appendix 5 of Planning for Bush Fire Protection 2006. In this regard the following landscaping principles are, where applicable, to be incorporated into the development:
 - 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;
 - 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

This area has been left intentionally blank.





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

	T
APZ A defendable space is provided onsite. An APZ is provided and maintained for the life of the development.	Achievable with the implementation of the recommendations in section 13
SITING AND DESIGN: Buildings are sited and designed to minimise the risk of bush fire attack.	Achievable with the implementation of the recommendations in section 10
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: • 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: • 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 3959-2009 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



Grad Dip Planning for Bushfire Prone Areas

Bushfire Planning Services Pty Limited

19 References

Australian Building Codes Board

Matthis.

National Construction Code

Volumes 1&2

Canprint

NSW Government Environmental Planning and Assessment Act [1979]

Part 79BA – Consultation and development Consent – Certain Bushfire Prone Land NSW Government Printer

Planning NSW [2006]

Planning for Bushfire Protection

A Guide for Councils, Planners, Fire Authorities, Developers and Home Owners

Ramsay C & Rudolph L [2003]

Landscape and Building Design for Bushfire Prone Areas
CSIRO Publishing

Standards Australia [2009]

Australian Standards 3959 (amendments 1, 2 and 3) Standards Australia





20 Appendix 1 - Plans







A04	PERSPECTIVES 2
A05	SURVEY-PART A
A06	SURVEY-PART 8
AGT	SITE PLAN
A08	SITE ANALYSIS & LOCATION MAP
A09	EXISTING PLANS 1
A10	EXISTING PLANS 2
Att	EXISTING ELEVATIONS
A12	CELLAR
A13	GROUND FLOOR PART 1
A14	GROUND FLOOR PART 2
A15	GROUND FLOOR PART 3
A16	LEVEL 1 PLAN
A17	ROOF PLAN-PART 1
A18	ROOF PLAN-PART 2
A19	BLEVATION ET & EZ
A20	ELEVATION ED & E4
A21	SECTION A & B
A22	SECTION C & D
A23	SECTION E
A24	SHADOWS JUNE 21-9AM
A25	SHADOWS JUNE 21-12NOON
A26	SHADOWS JUNE 21-3PM
A27	LANDCAPE DIAGRAMS
A28	LANDCAPE CALCULATION
A29	FINSHES SCHEDULE





W internal joinery panel door, finish as specified. 01, S02etc) NEW skylight. Refer to BASIX	GENERAL CONSTRUCTION NOTES
01, W02etc) NEW aluminium window. wdercoated. Refer to BASIX requirements.To comply h BAL 29 rating. ISTING window to remain. Make good as required.	ROOF STRUCTURE: TIMBER FRAMED ALL ROOFS TO BE SARKED AS SPECIFIED. ALL ROOFS CONNECTED TO STORMWATER SYSTEM. NEW GUTTERS AND DOWNPIPES IN LOCATIONS AS
ISTING WINDOW to remain, make good as required.	SPECIFIED. HYDRAULIC: REFER TO HYDRAULIC DRAWINGS FOR DETAILS. DESER TO DA CONDITIONS.





CODE ID	DESCRIPTION			
DP	NEW downpipe, as specified.			
e-DP	EXISTING downpipe. Make good as required.			
R-EM	EXISTING timber framed roof structure with EXISTING metal roof sheets. Keep and Protect.			
R-ET	EXISTING timber framed roof structure with EXISTIN roof tiles. Keep and Protect.			
R-M1	NEW timber framed roof structure with NEW corrugated metal sheet, as specified. As per engineer's detail.			
R-T1	NEW timber framed roof structure with NEW roof tiles, as specified. As per engineer's detail.			

	STRUCTURAL: REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
=	INSULATION: REFER TO SPECIFICATION FOR FLOOR, WALL, ROOF ACOUSTIC AND THERMAL INSULATION.
	BASIX: REFER TO BASIX FOR SUSTAINABILITY REQUIREMENTS.
NG NG	BUSHFIRE: CONSTRUCTION TO COMPLY WITH BAL 29. REFER TO BUSHFIRE REPORT

Tall	CONTRACTOR	C. Industria		The state of the s
1100				

CODE ID	DESCRIPTION			
P-ET	EXISTING timber post structure.			
P-T1	NEW (BAL 29 Hardwood) timber post structure. Painted, as specified. As per engineer's detail.			
W-EST	EXISTING wall structure with EXISTING stone facing, as specified.			
W-LW1	NEW timber framed wall structure with NEW FC weatherboard cladding, as specified. As per engineer's detail. To comply with BAL 29 rating.			
W-LW2	NEW timber framed wall structure with NEW flat FC cladding, as specified. As per engineer's detail. To comply with BAL 29 rating.			
W-ST1	NEW wall structure with NEW stone facing. As per engineer's detail.			





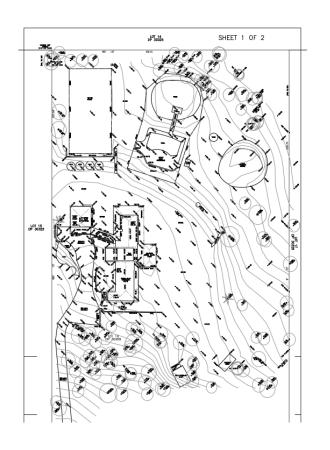
PRE-DEVELOPMENT
APPLICATION
CONTRIBUTE
DOCUMENTS ARE NOT TO BE DISTRIBUTED OR DISM
WITH OTHER PARTIES WITHOUT THE PRODUCTIONS
OF THE AMOUNTED.

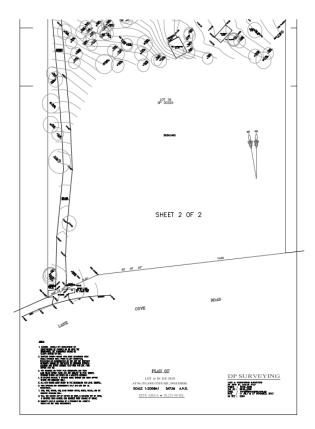
BUSHFIRE REQUIREMENTS: Refer to bushfire assessment eport and Australian standards for BAL29. PRE-DEVELOPMENT APPLICATION A

LOUISE & MICK CONN
70 LANE COVE ROAD INGLESIDE NSW 2101







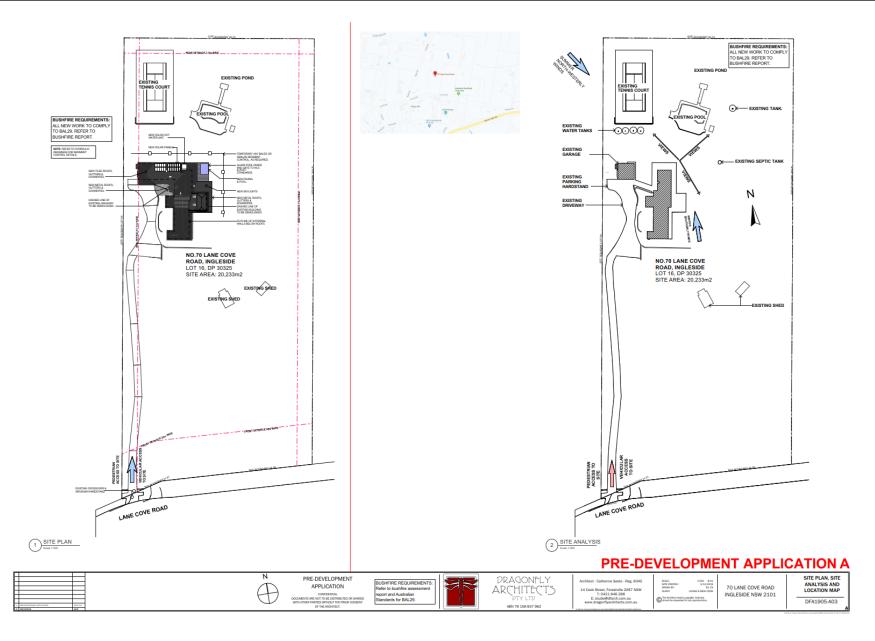


PRE-DEVELOPMENT APPLICATION A









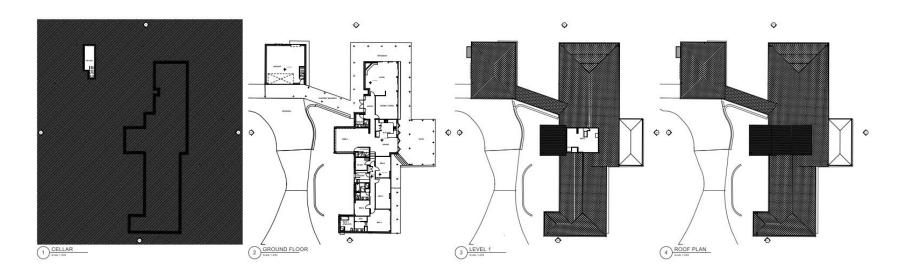












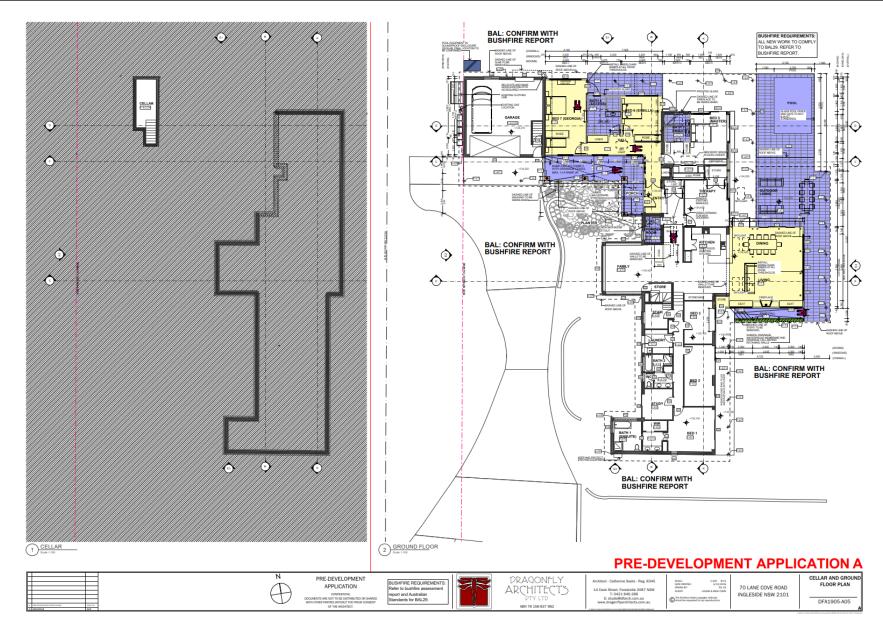


PRE-DEVELOPMENT APPLICATION A



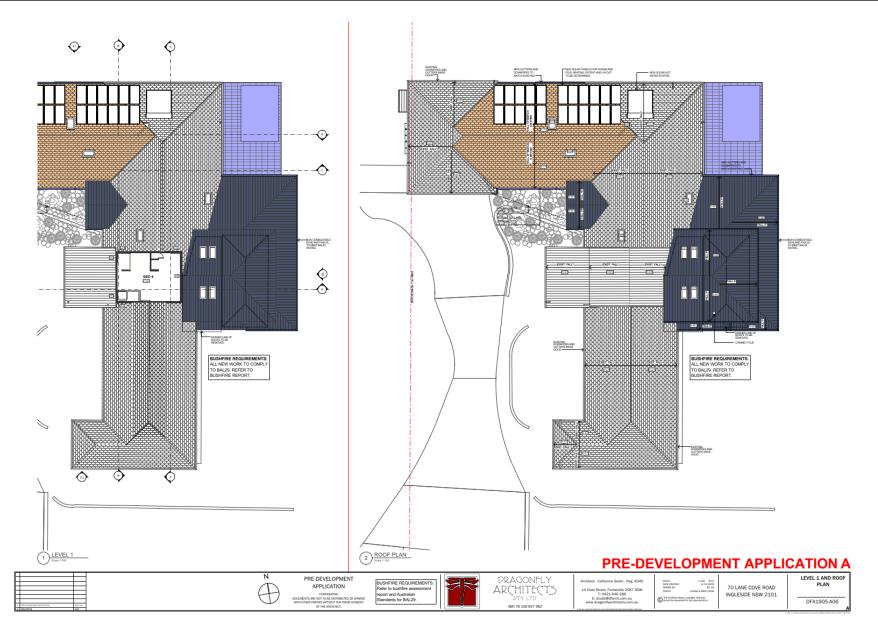












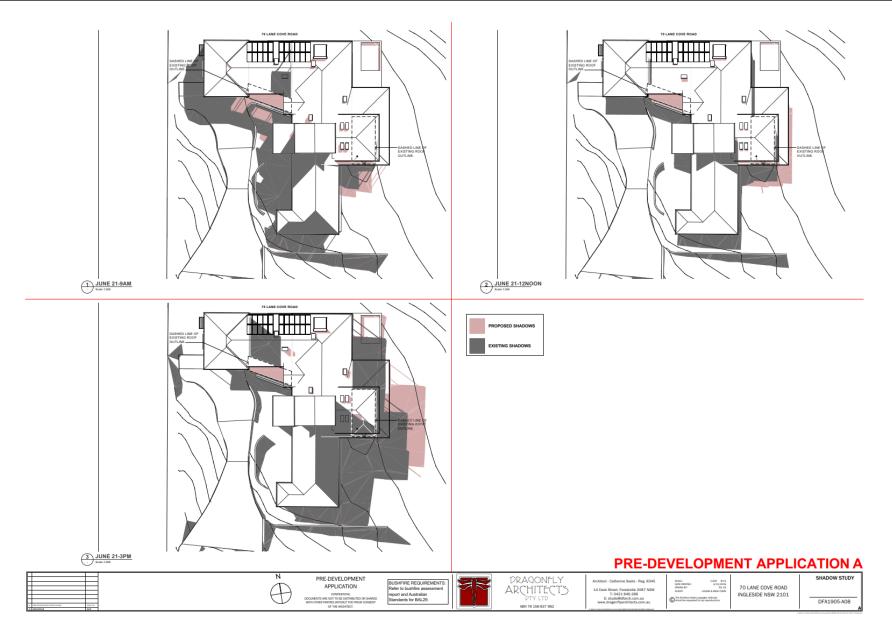






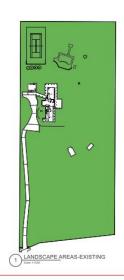


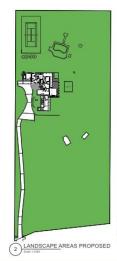














NORTHERN BEACHES COUNCIL PITTWATER 21 DCP-PART D6.8 - LANDSCAPED AREA -NON-URBAN GENERAL (INGLESIDE LOCALITY) TOTAL SITE IS 20,233mi

MIN. LANDSCAPE (0.96 X 20,233m2) - 400m2= 19,023.68m

MIN. REQUIRED SOFT LANDSCAPE = 19,023.68m

EXISTING LANDSCAPE (INGLESIDE) - DOES NOT COMPLY PROPOSED LANDSCAPE (INGLESIDE) - DOES NOT COMPLY

LANDSCAPE PROPOSED

NAME
AREA
L1
18,686.87
18,686.87 m²

THE MINIMUM LANDSCAPED AREA MAY BE GREATER THAN STATED ABOVE. WHERE A SITE IS LOCATED ON ENVIRONMENTALLY SENSITIVE OR STEEPLY SLOPING LAND, OR WHERE ITS DEVELOPMENT POTIENTIAL IS RESTRICED IN SOME OTHER WAY.

DAMS, PONDS, ON-SITE DETENTION TANKS, THE WATER SURFACE AREA OF SWIMMING POOLS AND WATER TANKS WASTE WATER TREATMENT SYSTEMS CAN BE INCLUDED AS LANDSCAPED AREA.

DRIVEWAYS AND POUROUS OR SOFT SURFACE AREAS THAT PERMIT THE INFLITRATION OF SURFACE WATER INTHE SUBSTRATA CAN BE INCLUDED AS LANDSCAPED AREA. (NOTE THAT THE TENNIS COURT HAS A GRASS SURFACE ON A SAND BED)

SHEDS WITH A MAXIMUM OF 200m² ARE PERMITTED IN ADDITION TO NON-LANDSCAPED AREAS PERMITTED.

NORTHERN BEACHES COUNCIL PITTWATER 21 DCP-PART C1.1 - LANDSCAPING (GENERAL RESIDENTIAL)

NOTE: A LANDSCAPING PLAN IS NOT REQUIRED BECUASE OF THE FOLLOWING:

The proposal does not cause any substantial cha-visual character of the site.
 Existing vegetation and trees are to be retained.

MIN LANDSCAPE REQUIRED IS 60% FOR A SINGLE

DWELLING.
MIN. LANDSCAPE (0.60 X 20,233m²)= 12,139.8m²

MIN. REQUIRED SOFT LANDSCAPE = 12.139.8m²

EXISTING LANDSCAPE (GENERAL) - COMPLIES

PROPOSED LANDSCAPE (GENERAL)- COMPLIES

NORTHERN BEACHES COUNCIL

NOTE: MINIMUM OF 80m2 OF PRIVATE OPEN SPACE IS REQUIRED PER DWELLING, PRIVATE OPEN SPACE IS CALCULATED AT GROUND LEVEL WITH NO DIMENSION LESS THAN 3m.

EXISTING PRIVATE OPEN SPACE - COMPLIES

PROPOSED PRIVATE OPEN SPACE - COMPLIES

