

#### WARNING **BEWARE OF SERVICES**

The location of services are shown as approximate only and their exact location should be proven on site prior to construction. All authorities must be contacted prior to construction to determine the exact location of all services.

#### DISCLAIMER

Notwithstanding any description contained in the Plans or Design Specifications

contractors shall be responsible for satisfying themselves as to the nature and extent of the specified works and the physical and legal conditions under which the works will be carried out, including access, site conditions, nature of material to be excavated, type, size & quantity of materials required and any like matters affecting the construction of the works.

#### PERMITS & APPROVALS

The works contained in the Plans or Design may require Certification or Planning Approval prior to implementation. It is the responsibility of the landholder to obtain all relevant certification, permits or approvals.

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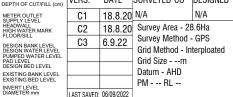
C CONTROL TOWE

C2 FARM CHANNEL - D3 - FARM DRAIN

₩ GATE SR58C6 ELEV. 119.63

DEAD TRE DRAIN INLE DrnBed 122.35 DESIGN DRAIN LEVEL EDBed 122.48 EXISTING DRAIN LEVEL







STRUCTURE WATER TROUGH

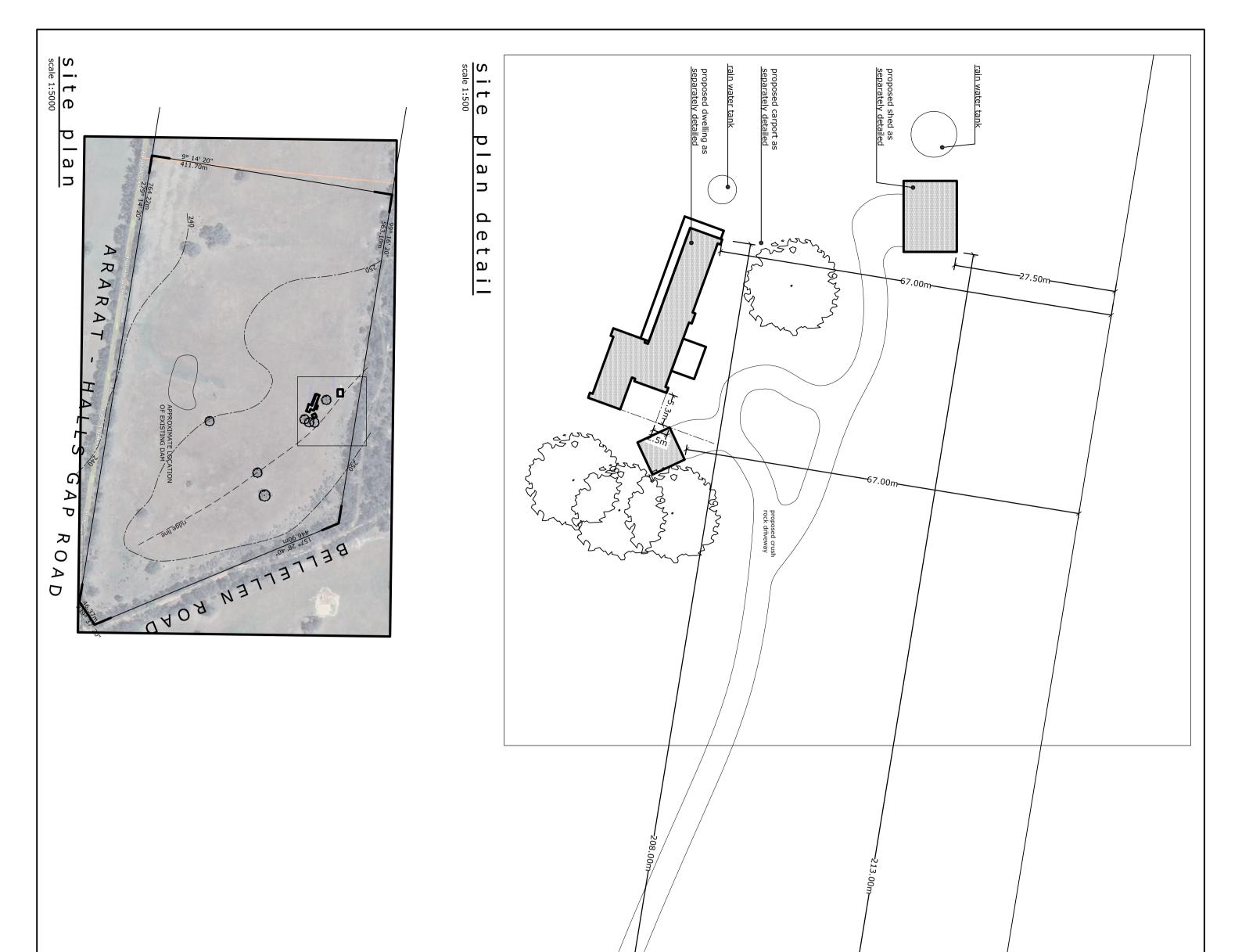
1:500 0.20% DESIGN SLOPE & DIRECTION



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Telephone: (03) 58 222333 SCOTT GERRARD 0407 859 250 ARARAT-HALLS GAP ROAD

SHEET: CONCEPT PLAN



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ABSOLUTE BUILDING DESIGN 402 Macarthur Street Soldiers Hill VIC 3350 M 0412 433 672			TOWN PLANNING DRAWINGS site plan	DRAWN a. j. jones (0412 433 672) REGISTRATION No. DP-AD1057 © COPYRIGHT 2022 - ANTHONY JONES	SCALE 1:5000, 1:500 (A2) DATE may 2022 DRAWING NO. 22-032-01/04

PROPO @ LOT ROAD, I		T									4	ISSUES & A
PROPOSED DWELLING @ LOT 2 ARARAT - HALLS GAP ROAD, MOYSTON (JALLUKAR)												AMENDMENTS:
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NOTE: SITING TO BE IN STRICT ACCORDANCE WITH BUSHFIR MANAGEMENT PREPARED BY REGIONAL PLANNING & DESIGN PTY. LTD., REF No. 21.319

SUBFLOOR SUPPORTS	Enclosed by external wall or by steel, bronxe or aluminium mesh, non-combustible supports where the subfloor is enclosed, naturally fire resistant timber stumps or posts on 75mm metal stirrups.
FLOORS	Concrete slab on ground, enclosed by external wall, metal mesh as above or flooring less than 400 mm above ground level to be non-combustable, naturally fire resistant timber or protected on the underside with sarking or mineral wool insulation.
EXTERNAL WALLS	Non-combustible material (masonary, brick veneer, mud brick, aerated concrete, concrete) or timber framed or steel framed walls sarked on the outside & clad wtth 6mm fibre cement sheeting or steel sheeting
EXTERNAL WINDOWS	Protected by bushfire shutter, completely screened wth steel, bronze or aluminium mesh or 5mm toughened glass with openable portion screened and frame of metal or metal relationced PVC-U, or bushfire resisting limber and portion with in 400mm of ground level screened.
EXTERNAL DOORS	Protected by bushfire shutter or screened with steel, bronze or aluminium mesh or non-combustible or 35mm solid timber for 400mm above threshold. Metal or bushfire resisting timber framed tight-fitting with weather strips at base.
ROOFS	non-combustible covering. Wall/roof junction sealed. Openings fitted with non-combustible ember guards. roof to be fully sarked.
VERANDAS, DECKS, ETC	enclosed sub-floor space or non-combustible or bushfire resistant fimber supports. Decking to be non-combustible.

ΒA

99° 16' 20" 563.10m

W06:944

BELLELLEN NALTELLEN

#### Regional Planning & Design Pty Ltd

Sam Thompson Director BApp Sci (Hons) Landscape Architecture RMIT 1986

# BUSHFIRE MANAGEMENT STATEMENT



Prepared by Regional Planning & Design Pty Ltd 13 Bridport Street Daylesford 3461 Phone 0447 073 107 s.thompsondesign@bigpond.com

Lot 2 Ararat-Halls Gap Road Moyston Ref No 21.319

#### Disclaimer

This report has been made with careful consideration and with the best information available to Regional Planning and Design Pty Ltd at the time of writing. Before relying on information in this report, users should evaluate the accuracy, completeness and relevance of the information provided for their purposes. Regional Planning and Design Pty Ltd do not guarantee that it is without flaw or omission of any kind and therefore disclaim all liability for any error, loss or other consequence that may arise from you relying on any information in this report.

Requirements detailed in this document do not guarantee survival of the buildings or the occupants. The client is strongly encouraged to develop and practice a bushfire survival plan.

Information and assistance including a template for a Bushfire Survival Plan is provided as part of the 'Fire Ready Kit' available through the CFA website at <u>http://www.cfa.vic.gov.au</u> or through your local CFA Regional office.

Report Version	Description	Date Completed	Issued to
A	Issued as a draft for discussion	29/8/2021	Client
В	Issued as a final version	30/5/2022	Client

#### Version Control

### 1 SUMMARY

Summary	
Proposal	Construction of a dwelling
Date of site visit:	27/8/2021
Broad landscape setting Type (Technical Guide Planning Permit Applications – Bushfire Management Overlay)	3
Access requirements can be met	3.5m wide driveway with 4m vertical and 4.5m horizontal clearance with a turning area.
Defendable Space requirements can be met	BAL 12.5 (57 m from the edges of the building)
Proposed BAL construction level	29
Is native vegetation removal required:	No

### 2 INTRODUCTION

This Bushfire Management Statement (BMS) has been prepared to enable Scott Gerrard to respond to the requirements of Clause 44.06 *Bushfire Management Overlay* (known from this point on as Clause 44.06), and associated Clause 52.03 *Bushfire Protection: Planning Requirements* (known from this point on as Clause 52.03) for the construction of a dwelling at Lot 2 Ararat-Halls Gap Road Moyston.

Methodology

The BMS is in two parts

Part 1 Site description, hazard assessment and locality description

Part 2 A Bushfire Management Statement describing how the proposed development responds to the requirements in Clause 53.02 and 44.06.

### 3 ZONING AND OVERLAYS

Clause Number	Name
35.07	Farming Zone
44.06	Bushfire Management Overlay
53.02	Bushfire Planning
43.02	Significant Landscape Overlay
42.02	Vegetation Protection Overlay

### Figure 1 Zoning



### 4 LOCATION

The site is located to the north west of the Township of Moyston. The site has forest to the immediate north. There is mountainous terrain and forest to the west in the Grampians National Park.

The site could be vulnerable to long runs of fire from the north and north west and south west following a wind change, which often occurs on high fire risk days in summer. This is described in further detail in the Bushfire Hazard Landscape Assessment



**FIGURE 2 LOCATION** 

## 5 SITE DESCRIPTION

Site shape, dimensions, siz	Site shape, dimensions, size , existing use and buildings and works						
The shape of the site is:	Rectangular with angled eastern boundary						
The site has a total area of:	28.33 ha						
The current use of the site is	Grazing						
The buildings or works located on the site are:	Nil						
Site topography	The site is elevated on a ridgeline in the north eastern part. Land slopes gently to the south west on an overall 0 to 5 degree downslope						
Site vegetation	The site is mostly covered in grazed grassland						
Services and infrastructure	The site is connected to the gravel road network						



FIGURE 3 EXISTING CONDITIONS AIR PHOTO



Photo 1 Looking north from the proposed house site area



Photo 2 Looking east from the proposed house site area



Photo 3 Looking west from the proposed house site area



Photo 4 Looking south from the proposed house site area



Photo 5 Looking north from the south boundary towards the proposed house site



Photo 6 Looking north to forest on the north boundary

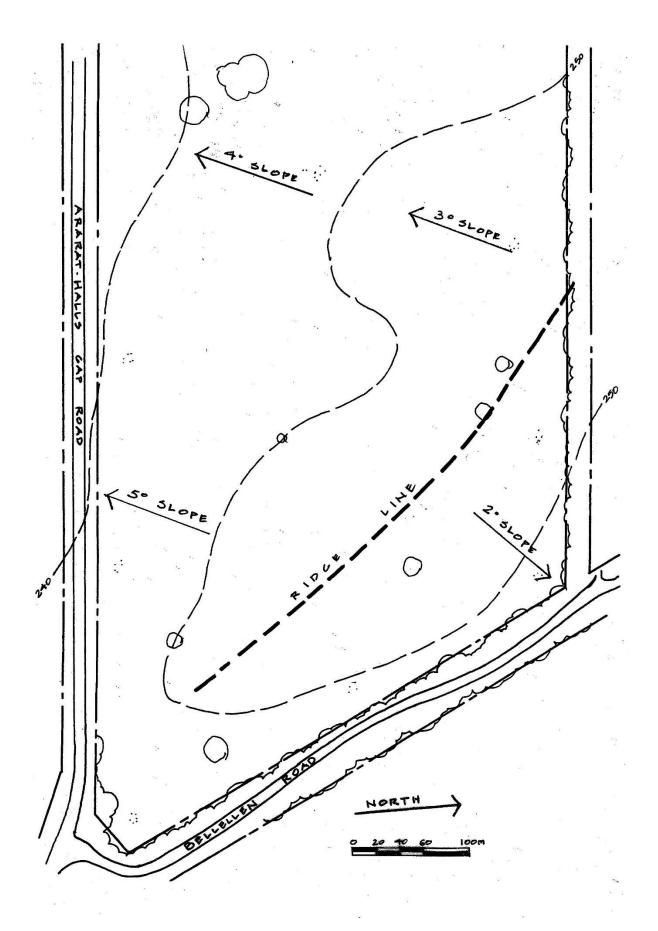


FIGURE 4 EXISTING CONDITIONS PART PLAN

### 6 ACCESS

The vehicle access is from Bellellen Road on the east boundary which joins the Ararat Halls Gap Road on the southern boundary. This provides access to Moyston to the south east through open areas of managed grassland.

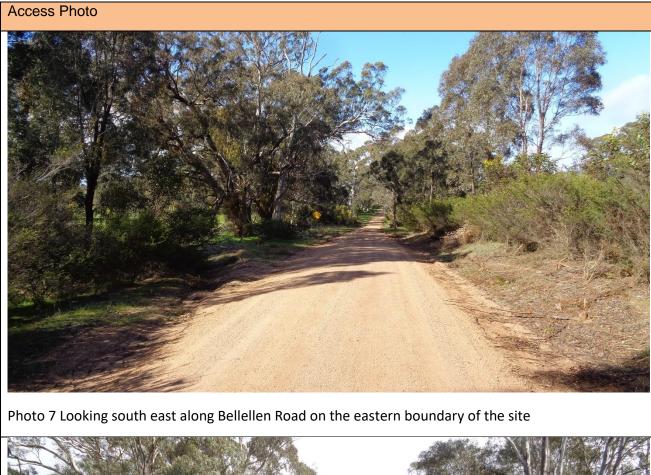




Photo 8 Looking west along the Ararat Halls Gap Road on the southern boundary of the site

### 7 BUSHFIRE HAZARD SITE ASSESSMENT

As shown in Figure 5 and described in Appendix 1, within the 150 metre assessment is mostly managed grassland with forest to the north and east (photos 9 to 14)



FIGURE 5 150 METRE ASSESSMENT PLAN

Surrounding Landscape Photos



Photo 9 Looking north to forest in the road verge to the east of site



Photo 10 Looking north through forest to the north of the site



Photo 11 Looking west through regenerating forest on the north boundary of the site



Photo 12 Looking east across managed grassland to the east of the site

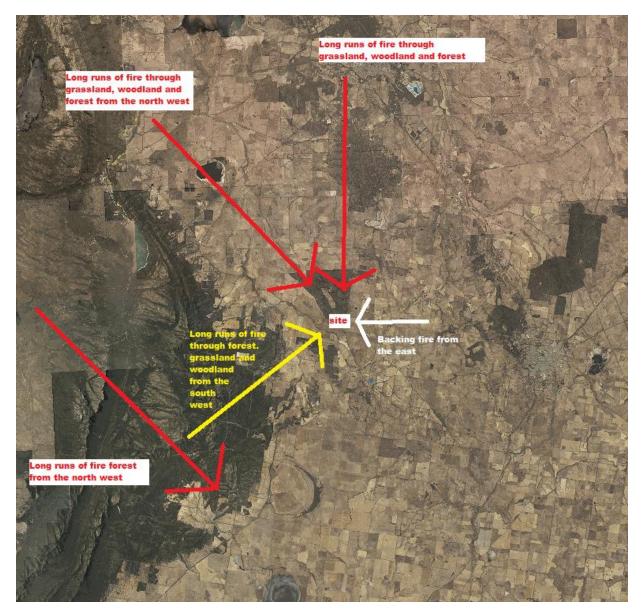


### 8 BUSHFIRE HAZARD LANDSCAPE ASSESSMENT

The site has extensive areas of forest, woodland and grassland to the north west and south west. On a broad landscape scale this increases the fire risk to the site as on high fire danger days there are often strong north westerly winds followed by a strong south west change which can turn the east flank of a fire approaching from the north west into a long fire front. There is the potential for more than 4 kilometre long runs of fire from the north west to affect the site. As shown on Figure 7 on the following page, fuels to the south west are fragmented with managed farmland which will help to reduce the fire risk.

The areas of forest to the east of the site are less likely to form part of a long rapidly moving bushfire as winds from the east are not generally experienced on high fire danger days. A spot fire could start to the east of the site and burn slowly towards the site

There are sufficient areas of stringy bark forest (particularly to the north west) to cause significant spotting and ember attack (embers can easily travel more than one kilometre). Ember attack causes highest house loss in bushfires



**FIGURE 6 BUSHFIRE CONTEXT PLAN** 

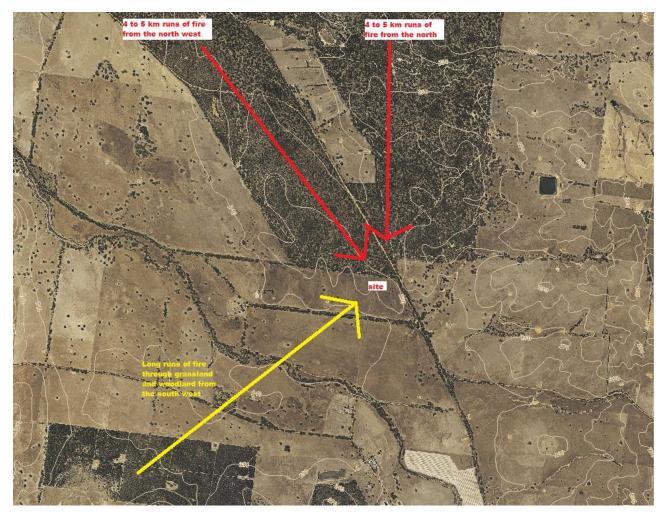
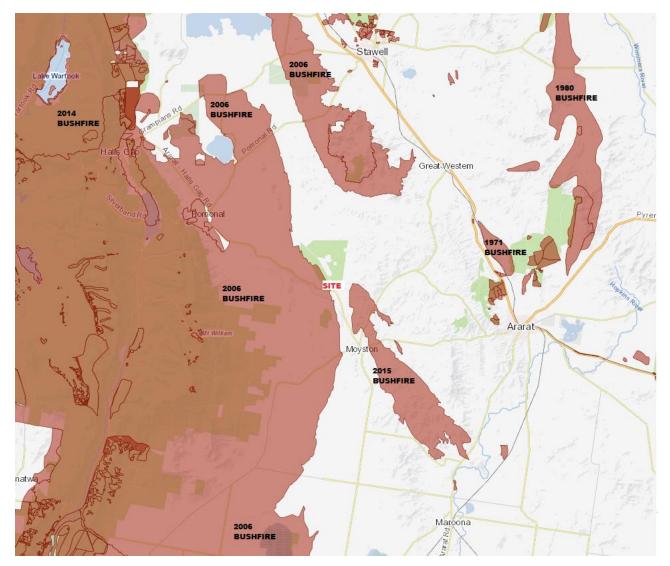


FIGURE 7 BUSHFIRE LOCAL CONTEXT PLAN



#### FIGURE 8 BUSHFIRE HISTORY MAP

The Fire History Map above shows there have been significant fires around the site in the recent years with most forest to the north west, west and south having burned since 2006. There have been fuel reduction burns to the west which will help reduce the risk to the site. Figure 9 on the following page shows there are planned burns to the south and west of the site in the next few years to reduce the fuel load in near by forest. Public Land surrounding the site is in Landscape Management and Bushfire Moderation Zones which aim to reduce the overall fuel load and fire risk. north, north west and west

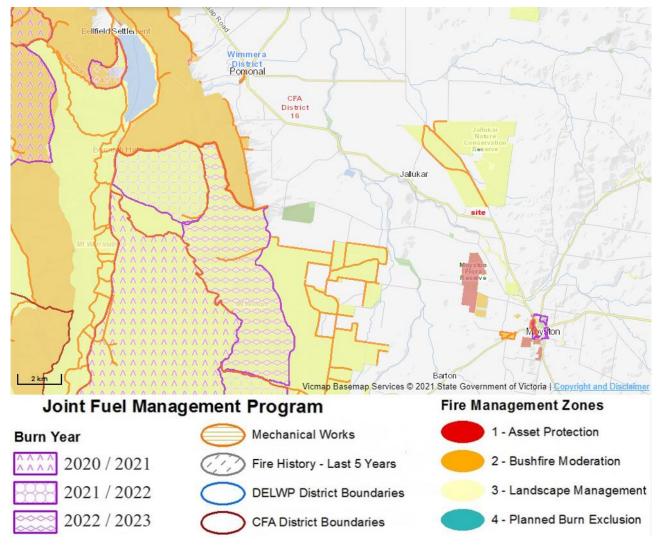
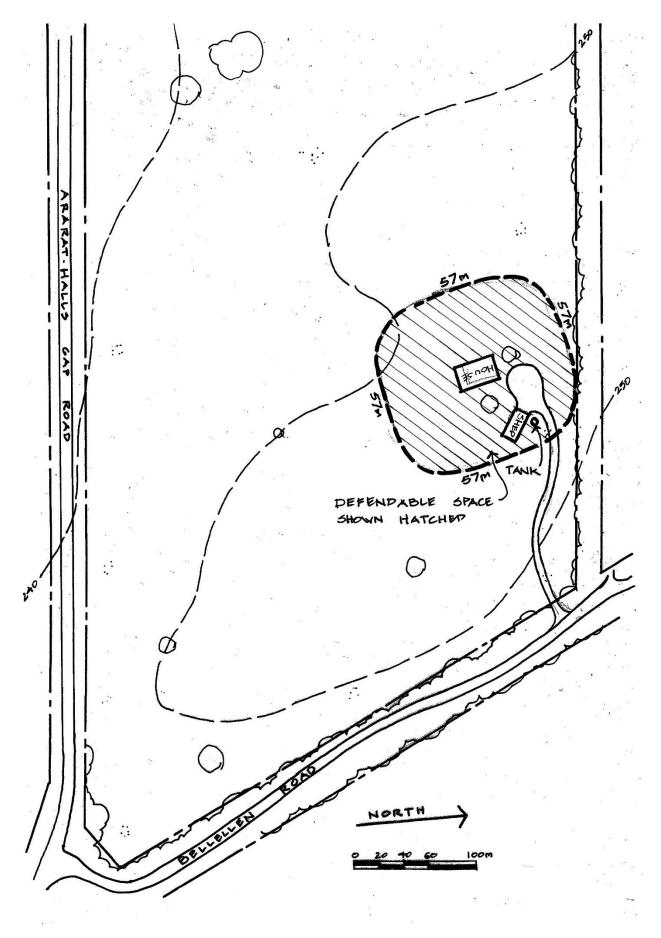


FIGURE 9 BUSHFIRE MANAGEMENT ZONES AND PLANNED BURNS



#### FIGURE 10 STANDARD DEFENDABLE SPACE SET BACKS



#### FIGURE 11 DEFENDABLE SPACE , ACCESS AND WATER SUPPLY

(See notes on following page)

#### SCHEDULE OF BUSHFIRE PROTECTION WORKS)

#### Defendable space

The area of defendable space is shown hatched on Figure 11 on the previous page for the distance of 57 metres from the building edges. Vegetation (and other flammable materials) will be modified and managed in accordance with the following requirements:

- Grass must be short cropped and maintained during the declared fire danger period.

- All leaves and vegetation debris must be removed at regular intervals during the declared fire danger period.

- Within 10 metres of a building, flammable objects must not be located close to the vulnerable parts of the building.

- Plants greater than 10 centimetres in height must not be placed within 3m of a window or glass feature of the building.

- Shrubs must not be located under the canopy of trees.

- Individual and clumps of shrubs must not exceed 5 sq. metres in area and must be separated by at least 5 metres.

- Trees must not overhang or touch any elements of the building.

- The canopy of trees must be separated by at least 5 metres within the area hatched in red.

- There must be a clearance of at least 2 metres between the lowest tree branches and ground level.

#### **Construction standards**

The dwelling will be designed and constructed a minimum Bushfire Attack Level of (BAL) 29 . There are no special construction requirements for the sheds

#### Water supply

The tank shown on the plan will hold 10,000 litres of effective water supply for fire fighting purposes which meets the following requirements:

-Is stored in an above ground water tank constructed of concrete or metal.

-All fixed above-ground water pipes and fittings required for fire fighting purposes must be made of corrosive resistant metal

- Include a separate outlet for occupant use

The water supply must also

- Incorporate a ball or gate valve (British Standard Pipe (BSP) 65mm) and coupling (64 mm CFA 3 thread per inch male fitting).

- The outlet/s of the water tank must be within 4m of the access way and 60m of all parts of the buildings and be unobstructed.

- Be readily identifiable from the building or appropriate identification signage to the satisfaction of CFA must be provided.

- Any pipework and fittings must be a minimum of 100 mm (excluding the CFA coupling).

#### Access

The driveway shown on the plan will provide access for trucks for fire fighting purposes which meets the following requirements:

- A load limit of at least 15 tonnes.

- Curves must have a minimum inner radius of 10m.

- The average grade must be no more than 1 in 7 (14.4 per cent) (8.1 degrees) with a maximum of no more than 1 in 5 (20 per cent) (11.3 degrees) for no more than 50m.

- Have a minimum trafficable width of 3.5m of all weather construction.

- Be clear of encroachments for at least 0.5m on each side and 4m above the access way.

- Dips must have no more than a 1 in 8 (12.5 per cent) (7.1 degrees) entry and exit angle.

A turning area will be provided for fire fighting vehicles close to the building by one of the following:

- A turning circle with a minimum radius of eight metres.

- A driveway encircling the dwelling.

- The provision of other vehicle turning heads (such as a T or Y head) which meet the specification of Austroad Design for an 8.8 metre Service Vehicle.

### 9 BUSHFIRE MANAGEMENT STATEMENT

Clause 53.02 contains a range of sub clauses with objectives, approved measures (AM), alternative measures (AltM) and decision guidelines. The table below details which clauses are relevant to this application. The following section demonstrates how the requirements have been met for the relevant standards.

Clause	Approved Measure	Achieved / Applicable	Justification
Clause 53.02 -3 -	AM 1.1	Not Applicable	NA as the site is zoned farming.
Dwellings in existing settlements –	AM 1.2	Not Applicable	
Bushfire protection objective	AM 1.3	Not Applicable	
Clause 53.02 -4.1	AM 2.1	Not Applicable	Applicable as a single dwelling is proposed
Landscape, siting and design objectives	AM 2.2	Not Applicable	
	AM 2.3	Not Applicable	
Clause 53.02 -4.2	AM 3.1	Applicable	This application addresses this clause.
Defendable space and construction	AM 3.2	Not Applicable	This proposal is for a single dwelling so N A
objectives	AltM 3.3	Not Applicable	Defendable space is within boundaries
	AltM 3.4	Not Applicable	Table 2 Used
	AltM 3.5	Not Applicable	Table 2 Used
	AltM 3.6	Not Applicable	This proposal is for a dwelling
Clause 53.02 -4.3	AM 4.1	Applicable	This development satisfies this clause.
Water supply and access objectives	AM 4.2	Not Applicable	This proposal is for a single dwelling
Clause 53.02 -4.4	AM 5.1	Not Applicable	No subdivision is proposed
Subdivision objectives	AM 5.2	Not Applicable	
,	AM 5.3	Not Applicable	
	AM 5.4	Not Applicable	
	AM 5.5	Not Applicable	

Relevant clauses and measures applicable to the proposed development.

#### 9.1.1 52.03-2.1 Landscape, siting and design objectives

Development is appropriate having regard to the nature of the bushfire risk arising from the surrounding landscape.

Development is sited to minimise the risk from bushfire.

Development is sited to provide safe access for vehicles, including emergency vehicles.

Building design minimises vulnerability to bushfire attack.

Approved	Requirement
Measure	
AM 2.1	The bushfire risk to the development from the landscape beyond the site can be mitigated to an acceptable level.
	Response:
	The site is located to the south east of forest. There is good access to managed farmland to the south.
	The forest to the north west is zoned PCRZ so while it is likely to remain forest, it is covered by a Landscape Management Zone, which will help reduce the fuel load and risk.
	This site is able to meet the defendable space requirements for a BAL 12.5 as per the Method 1 assessment of AS 3959-2009 within the property boundaries. Due to the broadscale landscape risk BAL 29 construction standards are proposed.
AM 2.2	<ul> <li>Buildings are sited to ensure the site best achieves the following:</li> <li>The maximum separation distance between the building and the bushfire hazard.</li> <li>The building is in close proximity to a public road.</li> <li>Access can be provided to the building for emergency service vehicles.</li> </ul>
	Response:
	The development has been planned so that the proposed building enables enough defendable space to achieve BAL 12.5 defendable space. (See Appendix 1)
	The defendable space is contained within the property boundaries.
	The proposed dwelling will have a driveway connecting to Bellellen Road, providing adequate access for residents and fire fighters .
	The proposed driveway will allow for CFA vehicles to access the site.
AM 2.3	A building is designed to be responsive to the landscape risk and reduce the impact of bushfire on the building
	Response:
	The new dwelling will be required to meet a BAL of 29. The construction requirements minimise the ability for ember penetration and radiant heat exposure to compromise the building integrity.

### 9.1.2 52.03-2.2 Defendable space and construction objective

Defendable space and building construction mitigate the effect of flame contact, radiant heat and embers on buildings.

Approved	Requirement
Measure AM 3.1	A building used for a dwelling (including an extension or alteration to a dwelling), a dependant person's unit, industry, office or retail premises is provided with defendable space in accordance with:
	Table 2 Columns A, B or C and Table 6 to Clause 53.02 -5 wholly within the title boundaries of the land; or
	If there are significant siting constraints, Table 2 Column D and Table 6 to Clause 53.02 -3.
	The building is constructed to the bushfire attack level that corresponds to the defendable space provided in accordance with Table 2 to Clause 53.02 -5.
	Response:
	The house has been sited to achieve BAL 12.5 defendable space (in accordance with Column A of Table 2 to Clause 53.02- 5) within the property boundaries. This has been based on the hazard of forest on a 0 – degree downslope in all directions (57 metres)
	BAL 29 construction standards are proposed due to the broadscale landscape fire risk.
	A shed that is larger than 100m2 and ancillary to a dwelling in the BMO needs to be surrounded by 10m defendable space (Table 7 to Clause 52.47) and be separated from any dwellings by 10 metres (CI 44.06 and 66.03).
	The State of Victoria Department of Environment, Land, Water and Planning prepared a fact sheet Outbuildings in the Bushfire Management Overlay in 2017 which states <i>Defendable space must be created for a distance of 10 metres around the proposed building or to the property boundary, whichever is the lesser</i>
	The shed is able to meet the defendable space requirements with 10 metres of defendable space beyond the external; walls of the structure and is separated from the dwelling by more than 10 metres.
	Therefore there are no special bushfire requirements for the proposed shed

**9.1.3 52.03-2.3 Water supply and access objectives** A static water supply is provided to assist in protecting property. Vehicle access is designed and constructed to enhance safety in the event of a bushfire.

Approved Measure	Requirement					
AM 4.1	A building used for a dwelling (including an extension or alteration to a dwelling), a dependant person's unit, industry, office or retail premises is provided with:					
	A static water supply for fire fighting and property protection purposes specified in Table 4 to Clause 53.02 -5.					
	Vehicle access that is designed and constructed as specified in Tab to Clause 53.02 -5.					
	The water supply may be in the same tank as other water supplies provided that a separate outlet is reserved for fire fighting water supplies					
	Response:					
	A static water supply will be provided using a fire resistant tank which has a CFA compatible outlet positioned so that a fire truck can drive to within 4 metres of the outlet which is located within 60 metres of the dwelling. 10 000 litres will always be retained within the tank for fire fighting purposes .					
	Access requirements can be met. A 3.5 metre wide track capable of carrying a 15 ton truck with 4m vertical and 4.5m horizontal clearance will be provided via a proposed track. (See Table 5, Appendix 3) A turning area is to be provided.					

### APPENDICES APPENDIX 1– BUSHFIRE SITE ASSESSMENT

	North	South	East	West
Vegetation Type	Forest	Woodland	Forest	Grassland
Distance from the house site boundary to vegetation	60	300	190	0
The effective slope under the vegetation	0 - 5	0 - 5	0 - 5	0 - 5
The width of required defendable space	57	57	57	57
BAL	29	29	29	29

### 10 APPENDIX 2 DEFENDABLE SPACE CHECKLIST FOR SITE (TABLE 6, CLAUSE 52.03-3)

Requirement	Compliance	Comment	Is a permit required to remove vegetation
All leaves and vegetation debris must be removed at regular intervals during the declared fire danger period.	Νο	Leaf litter to be removed	Νο
Grass must be short cropped and maintained during the declared fire danger period.	Yes		No
Within 10 metres of a building, flammable objects must not be located close to the vulnerable parts of the building.	Yes		No
Plants greater than 10 centimetres in height must not be placed within 3m of a window or glass feature of the building.	Yes		No
Shrubs must not be located under the canopy of trees.	Yes		No
Individual and clumps of shrubs must not exceed 5 sq. metres in area and must be separated by at least 5 metres.	Yes		No
Trees must not overhang or touch any elements of the building.	Yes		No
The canopy of trees must be separated by at least 5 metres.	No	Trees to be removed	No
There must be a clearance of at least 2 metres between the lowest tree branches and ground level.	No	Trees to be removed	No

### APPENDIX 3 ACCESS AND WATER SUPPLY REQUIREMENTS

#### Table 4 Water supply requirements

Lot sizes (square meters)	Hydrant available	Capacity (litres)	Fire authority fittings and access required
Less than 500	Not applicable	2,500	No
500-1,000	Yes	5,000	No
500-1,000	No	10,000	Yes
1,001 and above	Not applicable	10,000	Yes

#### Capacity, fittings and access

Note 1: A hydrant is available if it is located within 120 metres of the rear of the building

#### **Fire Authority requirements**

Unless otherwise agreed in writing by the relavant fire authority, the water supply must:

- Be stored in an above ground water tank constructed of concrete or metal.
- Have all fixed above ground water pipes and fittings required for firefighting purposes made of corrosive resistant metal.
- Include a seperate outlet for occupant use.

Where a 10,000 litre water supply is required, fire authority fittings and access must be provided as follows:

- Be readily identifiable from the building or appropriate identification signage to the satisfaction of the relevant fire authority.
- Be located within 60 metres of the outer edge of the approved building.
- The outlet/s of the water tank must be within 4 metres of the accessway and unobstructed.
- Incorporate a separate ball or gate valve (British Standard Pipe (BSP 65 millimetre) and coupling (64 millimetre CFA 3 thread per inch male fitting).
- Any pipework and fittings must be a minimum of 65 millimetres (excluding the CFA coupling).

#### Table 5 Vehicle access design and construction

Vehicle access (or part thereof) of a length specified in Column A implements the design and construction requirements specified in Column B.

Column A	Column B	
Length of access is less than 30 metres	There are no design and construction requirements if fire authority access to the water supply is not required under <b>AM4.1</b> .	
Length of access is less than 30 metres	Where fire authority access to the water supply is required under <b>AM4.1</b> fire authority vehicles should be able to get within 4 metres of the water supply outlet.	
Length of access is greater than 30 metres	<ul> <li>The following design and construction requirements apply:</li> <li>All-weather construction.</li> <li>A load limit of at least 15 tonnes.</li> <li>Provide a minimum trafficable width of 3.5 metres.</li> <li>Be clear of encroachments for at least 0.5 metres on each side and at least 4 metres vertically.</li> <li>Curves must have a minimum inner radius of 10 metres.</li> <li>The average grade must be no more than 1 in 7 (14.4%) (8.1°) with a maximum grade of no more</li> </ul>	
	<ul> <li>than 1 in 5 (20%) (11.3°) for no more than 50 metres.</li> <li>Dips must have no more than a 1 in 8 (12.5 per cent) (7.1 degrees) entry and exit angle.</li> </ul>	
Length of access is greater than 100 metres	<ul> <li>A turning area for fire fighting vehicles must be provided close to the building by one of the following:</li> <li>A turning circle with a minimum radius of eight metres.</li> <li>A driveway encircling the dwelling.</li> <li>The provision of other vehicle turning heads – such as a T or Y head – which meet the specification of Austroad Design for an 8.8 metre Service Vehicle.</li> </ul>	
Length of access is greater than 200 metres	<ul> <li>Passing bays must be provided at least every 200 metres.</li> <li>Passing bays must be a minimum of 20 metres long with a minimum trafficable width of 6 metres.</li> </ul>	

Note 1: The length of access should be measured from a public road to either the building or the water supply outlet, whichever is longer.

Column A	Column B	
Length of access is greater than 100 metres	A turning area for fire fighting vehicles must be provided close to the building by one of the following:	
	<ul> <li>A turning circle with a minimum radius of eight metres.</li> </ul>	
	<ul> <li>A driveway encircling the dwelling.</li> </ul>	
	<ul> <li>The provision of other vehicle turning heads – such as a T or Y head – which meet the specification of Austroad Design for an 8.8 metre Service Vehicle.</li> </ul>	
Length of access is greater than 200 metres	<ul> <li>Passing bays must be provided at least every 200 metres.</li> </ul>	
	<ul> <li>Passing bays must be a minimum of 20 metres long with a minimum trafficable width of six metres.</li> </ul>	

Note 1: The length of access should be measured from a public road to either the building or the water supply outlet, whichever is longer.

### APPENDIX 4 NATIVE VEGETATION REMOVAL

#### **Offset requirements**

Under Clause 52.12-5 the application is exempt from the requirement to apply for and off set the native vegetation as the removal is required to create defendable space as shown below

Exemption to create defendable space for a dwelling approved under Clause 44.06 of this planning scheme

Any requirement of a planning permit, including any condition, which has the effect of prohibiting the removal, destruction or lopping of vegetation, or any requirement of this planning scheme to obtain a planning permit, or any provision of this planning scheme that prohibits the removal, destruction or lopping of vegetation or requires the removal, destruction or lopping of vegetation or requires the removal, destruction or lopping of vegetation or requires the removal, destruction or lopping of vegetation to be carried out in a particular manner, does not apply to the removal, destruction or lopping of vegetation to construct a dwelling and create its defendable space if all of the following requirements are met:

Land is in the Bushfire Management Overlay.

Land is in the General Residential Zone, Residential Growth Zone, Neighbourhood Residential Zone, Urban Growth Zone, Low Density Residential Zone, Township Zone, Rural Living Zone, Farming Zone or Rural Activity Zone.

The removal, destruction or lopping of vegetation

Does not exceed the distance specified in Table 1 to Clause 53.02-3 of this planning scheme, based on the bushfire attack level determined by a relevant building surveyor in deciding an application for a building permit under the Building Act 1993 for a dwelling or alteration or extension to the dwelling; or

Is required to be undertaken by a condition in a planning permit issued after 31 July 2014 under Clause 44.06 of this scheme for a dwelling or an alteration or extension to the dwelling

### 11 REFERENCES

CFA (2014). Vegetation Classes: Victorian Bushfire Management Overlay. Country Fire Authority, Burwood East, Victoria.

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DELWP (2018) Bushfire Fuel and Risk Management <u>https://www.ffm.vic.gov.au/bushfire-fuel-and-risk-management/joint-fuel-management-program</u>

Nearmap http://maps.au.nearmap.com

#### SCHEDULE OF BUSHFIRE PROTECTION MEASURES

#### **Defendable space**

The area of defendable space is shown hatched will extend 57 m from the building edges. Vegetation (and other flammable materials) will be modified and managed in accordance with the following requirements:

- Grass must be short cropped and maintained during the declared fire danger period.
- All leaves and vegetation debris must be removed at regular intervals during the declared fire danger period.
- Within 10 metres of a building, flammable objects must not be located close to the vulnerable parts of the building.
- Plants greater than 10 centimetres in height must not be placed within 3m of a window or glass feature of the building.
- Shrubs must not be located under the canopy of trees.
- Individual and clumps of shrubs must not exceed 5 sq. metres in area and must be separated by at least 5 metres.
- Trees must not overhang or touch any elements of the building.
- The canopy of trees must be separated by at least 5 metres within the area hatched in red.
- There must be a clearance of at least 2 metres between the lowest tree branches and ground level.

#### **Construction standards**

The dwelling will be designed and constructed a minimum Bushfire Attack Level of (BAL) 29 There are no special construction requirements for the shed.

#### Water supply

The tank shown on the plan will each hold 10,000 litres of effective water supply for fire fighting purposes which meets the following requirements:

-Is stored in an above ground water tank constructed of concrete or metal.

-All fixed above-ground water pipes and fittings required for fire fighting purposes must be made of corrosive resistant metal

- Include a separate outlet for occupant use

The water supply must also

- Incorporate a ball or gate valve (British Standard Pipe (BSP) 65mm) and coupling (64 mm CFA 3 thread per inch male fitting).

- The outlet/s of the water tank must be within 4m of the access way and 60m of all parts of the buildings and be unobstructed.

- Be readily identifiable from the building or appropriate identification signage to the satisfaction of CFA must be provided.

- Any pipework and fittings must be a minimum of 100 mm (excluding the CFA coupling).

#### Access

The driveway shown on the plan will provide access for trucks for fire fighting purposes which meets the following requirements:

- A load limit of at least 15 tonnes.
- Curves must have a minimum inner radius of 10m.

- The average grade must be no more than 1 in 7 (14.4 per cent) (8.1 degrees) with a maximum of no more than 1 in 5 (20 per cent) (11.3 degrees) for no more than 50m.

- Have a minimum trafficable width of 3.5m of all weather construction.
- Be clear of encroachments for at least 0.5m on each side and 4m above the access way.
- Dips must have no more than a 1 in 8 (12.5 per cent) (7.1 degrees) entry and exit angle.
- A turning area will be provided for fire fighting vehicles close to the building by one of the following:
- A turning circle with a minimum radius of eight metres.
- A driveway encircling the dwelling.

- The provision of other vehicle turning heads (such as a T or Y head) which meet the specification of Austroad Design for an 8.8 metre Service Vehicle

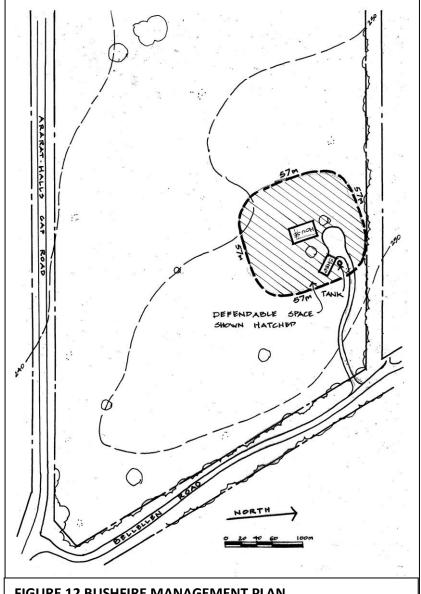


FIGURE 12 BUSHFIRE MANAGEMENT PLAN Lot 2 Ararat – Halls Gap Road Moyston Version B 30/5/2022