

BUSHFIRE THREAT ASSESSMENT

FOR
A PROPOSED
TWO STAGED SUBDIVISION OF TWO
LOTS

AT

LOT 265-266 SPRINGFIELD DRIVE, LOCHINVAR NSW 2321

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Disclaimer

Notwithstanding the precautions adopted within this report, it should always be remembered that bushfires burn under a wide range of conditions. An element of risk, no matter how small always remains, and although the standard is designed to improve the performance of such buildings, there can be no guarantee, because of the variable nature of bushfires, that any one building will withstand bushfire attack on every occasion.



Executive Summary

A Bushfire Threat Assessment Report (BTA) has been prepared by Firebird ecoSultants Pty Ltd at the request of Hunterland for a proposed two-staged subdivision between Lot 265 & Lot 266 Springfield Drive, Lochinvar NSW 2321. Stage 1 involves a 3-lot subdivision with two street frontage lots and a third rear lot. Stage 2 involves the third rear lot subdivision into 3 lots. The result of this proposal will be 5 residential lots and 1 community title lot for access.

The report forms part of the supporting documentation for a DA to be submitted to Maitland City Council (MCC) because the site is mapped as Bushfire Prone Land (BPL) under the Environmental Planning & Assessment Act 1979 (s10.3 – Bush fire prone land).

The development is required to satisfy EP&A Act 1979 (Section 9.1 – Ministerial Direction, 4.4 – Planning for Bushfire Protection) for the planning proposal and EP&A Act 1979 (Section 4.46 – What is Integrated Development) for the residential subdivision. Council will refer the BAR to the NSW RFS to satisfy the gateway determination for the proposal and then need to satisfy the Rural Fire Act 1997 (s100B) for the subdivision.

This Report demonstrates how the development conforms with the document titled 'Planning for Bushfire Protection' (PBP). The aim of PBP is to provide for the protection of human life and minimise the impacts on property from the threat of bush fire, while having due regard to development potential, site characteristics and protection of the environment (p.10).

This assessment aims to consider and assess the bushfire hazard and associated potential threats relevant to the proposal. Recommendations are provided with regard to fuel management, access, provision of emergency services, building protection and construction standards to facilitate an acceptable level of bushfire protection.

In summary, the following is recommended to enable the proposal to meet the relevant legislative requirements:

1. Asset Protection Zone (APZ) - The APZ provides space and reduced fuel loads to ensure radiant heat levels at the buildings are below critical limits and to prevent direct flame contact.

To achieve a Bushfire Attack Level (BAL) of **BAL-12.5** for proposed Unit 1, 4 and 5, and **BAL-LOW** for proposed Unit 2 and 3, the following land is to be managed as an APZ:

 The areas of the site outside development will be managed as an Inner Protection Area (IPA).

These distances are to be managed as described under 'Planning for Bushfire Protection (Appendix 4 – Asset Protect Zone Requirements)' and the document titled 'Standards for Asset Protection Zones'.



- 2. Perimeter Roads Access standards provide for emergency evacuation and firefighting operations
 - N/A perimeter roads are not proposed. The public road network is existing and complies with PBP 2019.
- 3. Construction Standards Construction standards seek to increase the protection of the habitable buildings from bushfire. The shorter the APZ (distance between the external wall of the habitable building and the unmanaged vegetation), then the higher the construction standard, which is referred to as the BAL

The proposed Unit 1, 4 and 5 in the proposed building envelope will be assessed as BAL-12.5 based on the abovementioned APZs. The proposed Unit 2 and 3 will be assessed as BAL-LOW based on the abovementioned APZs.

- 4. Landscaping The type, location and ongoing maintenance of landscaping is considered a necessary BPM
 - The identified APZs are to be managed in accordance with accordance with PBP (Appendix 4);
 - A clear area of low-cut lawn or pavement is maintained adjacent to the dwellings; and
 - Fencing details in accordance with PBP (7.6 Fences and gates)

This report provides the above required information to assist Council and the RFS in determining compliance in accordance with the PBP 2019 and AS 3959-2018.



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Terms & Abbreviations

Abbreviation	Meaning
APZ	Asset Protection Zone
AS2419 -2017	Australian Standard – Fire Hydrant Installations
AS3959-2018	Australian Standard – Construction of Buildings in Bush Fire Prone Areas
BCA	Building Code of Australia
ВРА	Bush Fire Prone Area (Also Bushfire Prone Land)
BFPL Map	Bush Fire Prone Land Map
BPMs	Bush Fire Protection Measures
BFSA	Bush Fire Safety Authority
CC	Construction Certificate
EPA Act	NSW Environmental Planning and Assessment Act 1979
FFDI	Forest Fire Danger Index
FMP	Fuel Management Plan
ha	hectare
IPA	Inner Protection Area
LGA	Local Government Area
MCC	Maitland City Council
OPA	Outer Protection Area
PBP	Planning for Bushfire Protection 2019
PoM	Plan of Management
RF Act	Rural Fires Act 1997
RF Regulation	Rural Fires Regulation



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I INTRODUCTION

A Bushfire Threat Assessment Report (BTA) has been prepared by Firebird ecoSultants Pty Ltd at the request of Hunterland for a proposed two-staged subdivision between Lot 265 and Lot 266 Springfield Drive, Lochinvar NSW 2321, hereafter referred to as the "site" (refer to Figure 1-1 for site locality). Refer to Appendix A for Proposed Site Plans.

This BTA is suitable for submission with a Development Application (DA) and provides information on measures that will enable the development to comply with 'Planning for Bushfire Protection' (NSW RFS, 2019), hereafter referred to as PBP (RFS, 2019).

This assessment aims to consider and assess the bushfire hazard and associated potential threats relevant to such a proposal, and to outline the minimum mitigative measures which would be required in accordance with the provisions of the Environmental Planning and Assessment Amendment (Planning for Bushfire Protection) Regulation 2007 and the Rural Fires Amendment Regulation 2007 (RF Amendment Regulation 2007).

I.I Site Particulars

Locality: Lot 265 and Lot 266 Springfield Drive, Lochinvar NSW 2321

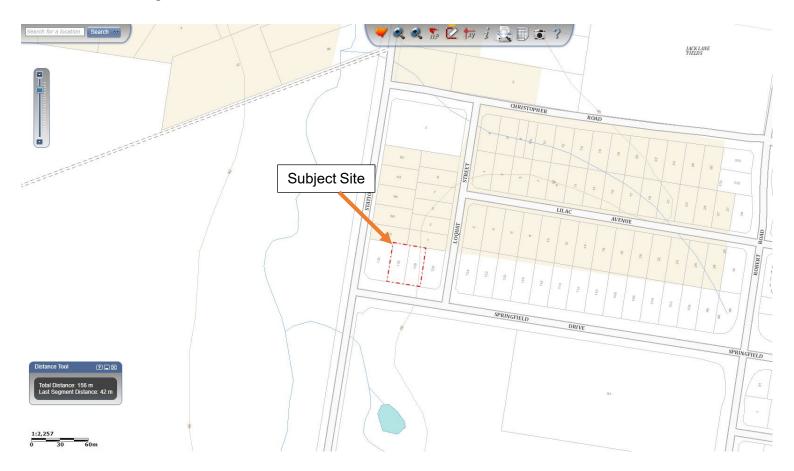
LGA: Maitland City Council

Current Land Use: Vacant lot

Forest Danger Index: 100 FFDI



Figure 1-1: Site Location





1.2 Description of the Proposal

This DA relates to the proposal for a two-staged subdivision between Lot 265 and Lot 266 Springfield Drive, Lochinvar. Refer to Appendix A for proposed plans.

1.3 Legislative Requirements

The Site has been mapped as Bush Fire Prone Land Map (BFPLM) by MCC.

This report forms part of the supporting documentation for a Development Application (DA) to be submitted to MCC.

This BTA has been prepared using current legislative requirements and associated guidelines for assessment of bushfire protection, these being:

- PBP (RFS, 2019); and
- AS3959-2018 Construction of Buildings in Bushfire Prone Area.

1.4 Objectives of Assessment

This report has been prepared to address the requirements of Clause 44 of the Rural Fires Regulation. This BTA also addresses the six key Bush Fire Protection Measures (BFRMs) in a development assessment context being:

- The provision of clear separation of buildings and bush fire hazards, in the form of fuel-reduced APZ (and their components being Inner Protection Areas (IPA's) and Outer Protection Areas (OPA's);
- Sitting and design of the proposal;
- Construction standards;
- Appropriate access standards for residents, fire-fighters, emergency workers and those involved in evacuation;
- Adequate water supply and pressure, and utility services; and
- Suitable landscaping, to limit fire spreading to a building.



Figure 1-2 Bushfire Prone Land Map





2 METHODOLOGY

2.1 Vegetation Assessment

Vegetation surveys and vegetation mapping carried out on the site has been undertaken as follows:

- Aerial Photograph Interpretation to map vegetation cover and extent
- Confirmation of the vegetation assemblage typology present.

2.2 Slope Assessment

Slope assessment has been undertaken as follows:

• Aerial Photograph Interpretation in conjunction with analysis of electronic contour maps with a contour interval of 2m.



3 SITE ASSESSMENT

The following assessment has been undertaken in accordance with the requirements of PBP (RFS, 2019).

3.1 Vegetation & Slope Assessment

In accordance with PBP (RFS 2019), an assessment of the vegetation over a distance of 140m in all directions from the site was undertaken. Vegetation that may be considered a bushfire hazard was identified in all directions from the site. This assessment is depicted in Table 3-1.

In accordance with PBP (RFS 2019), an assessment of the slope beneath the vegetation considered a bushfire hazard was undertaken and the results are presented in Table 3-1 below.

Table 3-1: Vegetation Classification for Proposed Unit 1

Direction	Vegetation Type	Distance from Site Boundary	Slope Vegetation occurs on
North	Managed Land – Residential Development	>100m	N/A
East	Managed Land – Residential Development	>100m	N/A
South	Grassland vegetation	>53m	Cross slope / Flat
West	Grassland vegetation	>46m	Flat

Table 3-2: Vegetation Classification for Proposed Unit 2

Direction	Vegetation Type	Distance from Site Boundary	Slope Vegetation occurs on
North	Managed Land – Residential Development	>100m	N/A
East	Managed Land – Residential Development	>100m	N/A
South	Grassland vegetation	>56m	Cross slope / Flat
West	Grassland vegetation	>57m	Flat



Table 3-3: Vegetation Classification for Proposed Unit 3

Direction	Vegetation Type	Distance from Site Boundary	Slope Vegetation occurs on
North	Managed Land – Residential Development	>100m	N/A
East	Managed Land – Residential Development	>100m	N/A
South	Grassland vegetation	>53m	Cross slope / Flat
West	Grassland vegetation	>72m	Flat

Table 3-4: Vegetation Classification for Proposed Unit 4

Direction	Vegetation Type	Distance from Site Boundary	Slope Vegetation occurs on
North	Managed Land – Residential Development	>100m	N/A
East	Managed Land – Residential Development	>100m	N/A
South	Grassland vegetation	>34m	Cross slope / Flat
West	Grassland vegetation	>46m	Flat

Table 3-5: Vegetation Classification for Proposed Unit 5

Direction	Vegetation Type	Distance from Site Boundary	Slope Vegetation occurs on
North	Managed Land – Residential Development	>100m	N/A
East	Managed Land – Residential Development	>100m	N/A
South	Grassland vegetation	>35m	Cross slope / Flat
West	Grassland vegetation	>66m	Flat



4 BUSHFIRE PROTECTION ASSESSMENT

4.1 Asset Protection Zones (APZ)

The PBP (RFS, 2019) guidelines have been used to determine the widths of the APZs required for habitable buildings within the site using the vegetation and slope data identified in Section 3-1 of this report.

The site lies within Maitland Local Government Area and therefore is assessed under an FDI rating of 100. Using the results from the Site Assessment (section 3.1 of this report) the deemed to satisfy APZ requirements for the proposed buildings within the site were determined using Table A1.12.2 in PBP (RFS, 2019). Refer to Table 4-1 for the required APZs for the proposed habitable buildings.

Table 4-1: Recommended APZs for all Proposed Units

Direction from Development	Vegetation classified within 140m	Effective Slope (within 100m)	APZ to be provided
North	Managed Land	N/A	>100m APZ is existing managed land. The areas of the site outside development will be managed as an IPA.
East	Managed Land	N/A	>100m APZ is existing managed land. The areas of the site outside development will be managed as an IPA.
South	Grassland	Cross slope / flat	The areas of the site outside development will be managed as an IPA
West	Grassland	Flat	The areas of the site outside development will be managed as an IPA



5 DWELLING DESIGN & CONSTRUCTION

Building design and the materials used for construction of future dwellings should be chosen based on the information contained within AS3959-2018, and accordingly the designer / architect should be made aware of this recommendation. It may be necessary to have dwelling plans checked by the architect involved to ensure that the proposed dwellings meet the relevant Bushfire Attack Level (BAL) as detailed in AS3959-2018.

The determinations of the appropriate BAL are based upon parameters such as weather modelling, fire-line intensity, flame length calculations, as well as vegetation and fuel load analysis. The determination of the construction level is derived by assessing the:

- Relevant FFDI = 100
- Flame temperature
- Slope
- Vegetation classification; and
- · Building location.

The following BAL, based on heat flux exposure thresholds, are used in the standard:

(a) BAL - LOW The risk is considered to be VERY LOW

There is insufficient risk to warrant any specific construction requirements but there are still some risks.

(b) **BAL – 12.5** The risk is considered to be **LOW**

There is a risk of ember attack.

The construction elements are expected to be exposed to a heat flux not greater than 12.5 k/m^2 .

(c) BAL – 19 The risk is considered to be MODERATE

There is a risk of ember attack and burning debris ignited by wind borne embers and a likelihood of exposure to radiant heat.

The construction elements are expected to be exposed to a heat flux not greater than 19 kW/m².

(d) BAL-29 The risk is considered to be HIGH

There is an increased risk of ember attack and burning debris ignited by windborne embers and a likelihood of exposure to an increased level of radiant heat.



The construction elements are expected to be exposed to a heat flux no greater than 29 kW/m².

(e) BAL-40 The risk is considered to be VERY HIGH

There is much increased risk of ember attack and burning debris ignited by windborne embers, a likelihood of exposure to a high level of radiant heat and some likelihood of direct exposure to flames from the fire front.

The construction elements are expected to be exposed to a heat flux no greater than 40 kW/m².

(f) BAL-FZ The risk is considered to be EXTREME

There is an extremely high risk of ember attack and burning debris ignited by windborne embers, a likelihood of exposure to an extreme level of radiant heat and direct exposure to flames from the fire front.

The construction elements are expected to be exposed to a heat flux greater than 40 kW/m².

5.1 Determination of Bushfire Attack Levels

Using a FFDI of 100, the information relating to vegetation and slope was applied to Table A1.12.5 of PBP 2019 to determine the appropriate BAL ratings. The results from this bush fire risk assessment are detailed below in Table 5-1–Bush Fire Attack Assessment.

Table 5-1: Determination of Required BALs for Proposed Unit 1 within the proposed building envelope

Vegetation Type & Direction	Separation Distance from vegetation	Bushfire Attack Level (BAL)	Construction Section
Managed Land to the North	>100m	BAL-12.5	Sect 3 & 5 of AS3959
Managed Land to the East	>100m	BAL-12.5	Sect 3 & 5 of AS3959
Grassland to the South	>53m	BAL-12.5	Sect 3 & 5 of AS3959
Grassland to the West	>46m	BAL-12.5	Sect 3 & 5 of AS3959

Given the information in Table 5-1 above, proposed Unit 1 within the proposed building envelope will be able to comply with AS3959-2018 and has been assessed as BAL-12.5 from all elevations.



Table 5-2: Determination of Required BALs for Proposed Unit 2 within the proposed building envelope

Vegetation Type & Direction	Separation Distance from vegetation	Bushfire Attack Level (BAL)	Construction Section
Managed Land to the North	>100m	BAL-LOW	No construction requirements
Managed Land to the East	>100m	BAL-LOW	No construction requirements
Grassland to the South	>56m	BAL-LOW	No construction requirements
Grassland to the West	>57m	BAL-LOW	No construction requirements

Given the information in Table 5-2 above, proposed Unit 2 within the proposed building envelope will be able to comply with AS3959-2018 and has been assessed as BAL-LOW from all elevations.

Table 5-3: Determination of Required BALs for Proposed Unit 3 within the proposed building envelope

Vegetation Type & Direction	Separation Distance from vegetation	Bushfire Attack Level (BAL)	Construction Section
Managed Land to the North	>100m	>100m BAL-LOW	
Managed Land to the East	>100m	>100m BAL-LOW	
Grassland to the South	>53m	BAL-LOW	No construction requirements
Grassland to the West	>72m	BAL-LOW	No construction requirements

Given the information in Table 5-3 above, proposed Unit 3 within the proposed building envelope will be able to comply with AS3959-2018 and has been assessed as BAL-LOW from all elevations.



Table 5-4: Determination of Required BALs for Proposed Unit 4 within the proposed building envelope

Vegetation Type & Direction	Separation Distance from vegetation	Bushfire Attack Level (BAL)	Construction Section
Managed Land to the North	>100m	BAL-12.5	Sect 3 & 5 of AS3959
Managed Land to the East	>100m	100m BAL-12.5	
Grassland to the South	>34m	BAL-12.5	Sect 3 & 5 of AS3959
Grassland to the West	>46m	BAL-12.5	Sect 3 & 5 of AS3959

Given the information in Table 5-4 above, proposed Unit 4 within the proposed building envelope will be able to comply with AS3959-2018 and has been assessed as BAL-12.5 from all elevations.

Table 5-5: Determination of Required BALs for Proposed Unit 5 within the proposed building envelope

Vegetation Type & Direction	Separation Distance from vegetation	Bushfire Attack Level (BAL)	Construction Section
Managed Land to the North	>100m	BAL-12.5	Sect 3 & 5 of AS3959
Managed Land to the East	>100m	m BAL-12.5	
Grassland to the South	>35m	BAL-12.5	Sect 3 & 5 of AS3959
Grassland to the West	>66m	BAL-12.5	Sect 3 & 5 of AS3959

Given the information in Table 5-5 above, proposed Unit 5 within the proposed building envelope will be able to comply with AS3959-2018 and has been assessed as BAL-12.5 from all elevations.



Figure 5-1: Vegetation Map





6 COMPLIANCE

The proposal is for a two-staged subdivision and therefore development standards apply. Table 6-1 details compliance with Development Standards for Residential and Rural Residential Subdivisions.

Table 6-1: Proposed Subdivision Compliance with Development Standards

	Acceptable Solutions	Performance Criteria	Compliance
		Asset Protection Zone	es
>	APZs are provided in accordance with Tables A1.12.2 and A1.12.3 based on the FFDI.	potential building footprints must not be exposed to radiant heat levels exceeding 29 kW/m² on each proposed lot.	Complies with Acceptable Solution – APZs for the site has been provided in accordance with Table A1.12.5 of PBP 2019.
>	APZs are managed in accordance with the requirements of Appendix 4.	APZs are managed and maintained to prevent the spread of a fire towards the building.	Complies with Acceptable Solution – APZs on site are to be managed in accordance with Appendix 4 of PBP 2019.
>	APZs are wholly within the boundaries of the development site	the APZs is provided in perpetuity	Complies with Acceptable Solution – The areas of the site outside development should be managed as an Inner Protection Area (IPA). APZs for the North and East are already established by managed land.
>	APZs are located on lands with a slope less than 18 degrees.	APZ maintenance is practical, soil stability is not compromised and the potential for crown fires is minimised.	Complies with Acceptable Solution – APZs on site do not occur over land with slope <18°.
		Landscaping	
>	landscaping is in accordance with Appendix 4; and fencing is constructed in accordance with section 7.6.	landscaping is designed and managed to minimise flame contact and radiant	Complies with Acceptable Solution – All landscaping within the site will meet the requirements of the acceptable solution.



heat to buildings, and the potential for wind-driven embers to cause ignitions.

Access (General Requirements)

- property access roads are two-wheel drive, all -weather roads;
- perimeter roads are provided for residential subdivisions of three or more allotments;
- subdivisions of three or more allotments have more than one access in and out of the development;
- traffic management devices are constructed to not prohibit access by emergency services vehicles;
- maximum grades for sealed roads do not exceed 15 degrees and an average grade of not more than 10 degrees or other gradient specified by road design standards, whichever is the lesser gradient;
- all roads are through roads;
- dead end roads are not recommended, but if unavoidable, are not more than 200 metres in length, incorporate a minimum 12 metres outer radius turning circle, and are clearly sign posted as a dead end;
- where kerb and guttering is provided on perimeter roads, roll top kerbing should be used to the hazard side of the road;

firefighting vehicles are provided with safe, all-weather access to structures.

N/A – Perimeter roads are not proposed. The existing public road network complies with PBP 2019.



>	where access/egress can only be achieved through forest, woodland and heath vegetation, secondary access shall be provided to an alternate point on the existing public road system; and		
>	one way only public access roads are no less than 3.5 metres wide and have designated parking bays with hydrants located outside of these areas to ensure accessibility to reticulated water for fire suppression.		
>	the capacity of perimeter and non-perimeter road surfaces and any bridges/causeways is sufficient to carry fully loaded firefighting vehicles (up to 23 tonnes); bridges/causeways are to clearly indicate load rating.	the capacity of access roads is adequate for firefighting vehicles.	N/A - no roads are proposed as part of the subdivision. The existing public road network complies with PBP 2019.
>	hydrants are located outside of parking reserves and road carriageways to ensure accessibility to reticulated water for fire suppression;	there is appropriate access to water supply.	Complies with acceptable solution – hydrants occur within 70m of the site.
>	hydrants are provided in accordance with the relevant clauses of AS 2419.1:2017 - Fire hydrant installations System design, installation and commissioning; and		
>	there is suitable access for a Category 1 fire appliance to within 4m of the static water supply where no reticulated supply is available.		



Perimeter Roads

- are two-way sealed roads;
- > minimum 8m carriageway width kerb to kerb;
- parking is provided outside of the carriageway width;
- hydrants are located clear of parking areas;
- are through roads, and these are linked to the internal road system at an interval of no greater than 500m;
- curves of roads have a minimum inner radius of 6m;
- the maximum grade road is 15 degrees and average grade of not more than 10 degrees;
- the road crossfall does not exceed 3 degrees; and
- a minimum vertical clearance of 4m to any overhanging obstructions, including tree branches, is provided.

access roads are designed to allow safe access and egress for firefighting vehicles while residents are evacuating as well as providing a safe operational environment for emergency service personnel during firefighting and emergency management on the interface.

N/A - existing 2019.

N/A – perimeter roads are not proposed. The existing public road network complies with PBP 2019.

Non-Perimeter Roads

- minimum 5.5m carriageway width kerb to kerb;
- parking is provided outside of the carriageway width;
- hydrants are located clear of parking areas;

access roads are designed to allow safe access and egress for firefighting vehicles while residents are evacuating.

N/A – no perimeter roads exist as part of the proposal.



\rangle	roads are through roads, and these are linked
	to the internal road system at an interval of no
	greater than 500m;

- curves of roads have a minimum inner radius of 6m;
- the road crossfall does not exceed 3 degrees; and

a minimum vertical clearance of 4m to any overhanging obstructions, including tree branches, is provided.

Property Access

There are no specific access requirements in an urban area where an unobstructed path (no greater than 70m) is provided between the most distant external part of the proposed dwelling and the nearest part of the public access road (where the road speed limit is not greater than 70kph) that supports the operational use of emergency firefighting vehicles.

In circumstances where this cannot occur, the following requirements apply:

- > minimum 4m carriageway width;
- in forest, woodland and heath situations, rural property access roads have passing bays every 200m that are 20m long by 2m wide, making a minimum trafficable width of 6m at the passing bay;

firefighting vehicles can access the dwelling and exit the property safely.

Complies with Acceptable Solution -

All proposed lots will be able to comply with PBP 2019 and in any case access will be connected to a public road by a driveway or access road <70m.



- a minimum vertical clearance of 4m to any overhanging obstructions, including tree branches;
- provide a suitable turning area in accordance with Appendix 3;
- curves have a minimum inner radius of 6m and are minimal in number to allow for rapid access and egress;
- the minimum distance between inner and outer curves is 6m;
- > the crossfall is not more than 10 degrees;
- maximum grades for sealed roads do not exceed 15 degrees and not more than 10 degrees for unsealed roads; and
- a development comprising more than three dwellings has access by dedication of a road and not by right of way.

Note: Some short constrictions in the access may be accepted where they are not less than 3.5m wide, extend for no more than 30m and where the obstruction cannot be reasonably avoided or removed. The gradients applicable to public roads also apply to community style development property access roads in addition to the above.



		Water Supplies	
>	reticulated water is to be provided to the development where available;	adequate water supplies are provided for firefighting purposes.	Complies with Acceptable Solution – The site is connected to reticulated water.
>	a static water and hydrant supply is provided for non-reticulated developments or where reticulated water supply cannot be guaranteed; and		
>	static water supplies shall comply with Table 5.3d.		
>	fire hydrant, spacing, design and sizing complies with the relevant clauses of Australian Standard AS 2419.1:2017;	Water supplies are located at regular intervals; and the water supply is accessible and	Complies with Acceptable Solution – hydrants are located within 70m of the site.
>	hydrants are not located within any road carriageway; and	reliable for firefighting operations.	
>	reticulated water supply to urban subdivisions uses a ring main system for areas with perimeter roads.		
>	fire hydrant flows and pressures comply with the relevant clauses of AS 2419.1:2017.	flows and pressure are appropriate.	Complies with Acceptable Solution – fire hydrant pressures and flows are assumed to be compliant.
>	all above-ground water service pipes are metal, including and up to any taps; and	the integrity of the water supply is maintained.	Complies with Acceptable Solution – All above ground water service pipes will meet
>	above-ground water storage tanks shall be of concrete or metal.		the requirements.



		Electricity Services	
>	where practicable, electrical transmission lines are underground; where overhead, electrical transmission	location of electricity services limits the possibility of ignition of surrounding bush land or the fabric of buildings.	Complies with Acceptable Solution – All proposed dwellings are able to meet the requirements for electricity services.
	 lines are proposed as follows: lines are installed with short pole spacing of 30m, unless crossing gullies, gorges or riparian areas; and 		
	no part of a tree is closer to a power line than the distance set out in ISSC3 Guideline for Managing Vegetation Near Power Lines.		
		Gas Services	
>	reticulated or bottled gas is installed and maintained in accordance with AS/NZS 1596:2014 - The storage and handling of LP Gas, the requirements of relevant authorities, and metal piping is used;	location and design of gas services will not lead to ignition of surrounding bushland or the fabric of buildings.	Can Complies with Acceptable Solution – All proposed dwellings are able to meet the requirements for gas services.
)	all fixed gas cylinders are kept clear of all flammable materials to a distance of 10m and shielded on the hazard side;		
)	connections to and from gas cylinders are metal;		
)	polymer-sheathed flexible gas supply lines are not used; and		
>	above-ground gas service pipes are metal, including and up to any outlets.		



7 CONCLUSION & RECOMMENDATIONS

In summary, a Bushfire Risk Assessment has been undertaken for a proposed two-staged subdivision between Lot 265 & Lot 266 Springfield Drive, Lochinvar NSW 2321. Stage 1 involves a 3-lot subdivision with two street frontage lots and a third rear lot. Stage 2 involves the third rear lot subdivision into 3 lots. The result of this proposal will be 5 residential lots and 1 community title lot for access. The report forms part of the supporting documentation for a Development Application (DA) to be submitted to MCC.

If the recommendations contained within this report are duly considered and incorporated, it is considered that the fire hazard present is containable to a level necessary to provide an adequate level of protection to life and property on the subdivision. In summary, the following is recommended to enable the proposal to meet the relevant legislative requirements:

1. Asset Protection Zone (APZ) - The APZ provides space and reduced fuel loads to ensure radiant heat levels at the buildings are below critical limits and to prevent direct flame contact.

To achieve a Bushfire Attack Level (BAL) of **BAL-12.5** for proposed Unit 1, 4 and 5, and **BAL-LOW** for proposed Unit 2 and 3, the following land is to be managed as an APZ:

 The areas of the site outside development will be managed as an Inner Protection Area (IPA).

These distances are to be managed as described under 'Planning for Bushfire Protection (Appendix 4 – Asset Protect Zone Requirements)' and the document titled 'Standards for Asset Protection Zones'.

- 5. Perimeter Roads Access standards provide for emergency evacuation and firefighting operations
 - N/A perimeter roads are not proposed. The public road network is existing and complies with PBP 2019.
- 6. Construction Standards Construction standards seek to increase the protection of the habitable buildings from bushfire. The shorter the APZ (distance between the external wall of the habitable building and the unmanaged vegetation), then the higher the construction standard, which is referred to as the BAL

The proposed Unit 1, 4 and 5 in the proposed building envelope will be assessed as BAL-12.5 based on the abovementioned APZs. The proposed Unit 2 and 3 will be assessed as BAL-LOW based on the abovementioned APZs.

 Landscaping – The type, location and ongoing maintenance of landscaping is considered a necessary BPM



- The identified APZs are to be managed in accordance with accordance with PBP (Appendix 4);
- A clear area of low-cut lawn or pavement is maintained adjacent to the dwellings; and
- Fencing details in accordance with PBP (7.6 Fences and gates)

This report provides the above required information to assist Council and the RFS in determining compliance in accordance with the PBP 2019 and AS 3959-2018.



8 BIBLIOGRAPHY

- Department of Bush Fire Services (undated). Bush Fire Readiness Checklist.
- NSWFB (1988). Hazard Reduction for the Protection of Buildings in Bushland Areas. New South Wales Fire Brigades.
- NSW Rural Fire Service (1997). Bush Fire Protection for New and Existing Rural Properties. September 1997, NSW Government.
- NSW Rural Fire Service (2006). *Planning for Bushfire Protection A Guide for Councils, Planners, Fire Authorities, Developers and Home Owners.*
- NSW Rural Fire Service (2019). *Planning for Bushfire Protection A Guide for Councils, Planners, Fire Authorities, Developers and Home Owners.*
- NSW Rural Fire Service (2005). Standards for Asset Protection Zones. NSW Rural Fire Service.
- NSW Rural Fire Service (2002). Circular 16/2002: Amendments to the Rural Fires Act 1997 hazard reduction and planning requirements.
- Planning NSW & NSW Rural Fire Service (2001). Planning for Bushfire Protection A Guide for Councils, Planners, Fire Authorities, Developers and Home Owners.
- Ramsay, GC and Dawkins, D (1993). *Building in Bushfire-prone Areas Information and Advice.* CSIRO and Standards Australia.
- Rural Fires and Environmental Assessment Legislation Amendment Act 2002.
- Standards Australia (2018). AS 3959 2018: Construction of Buildings in Bushfire-prone Areas.

APPENDIX A PROPOSED SITE PLANS

24005 **GRUGEON CUSTOM**

SHEET	TITLE	REV
A01.0.1	COVER SHEET	А
A10.0.1	SITE ANALYSIS, EROSION CONTROL	A
A11.0.1	SITE SETOUT PLAN (BULK EARTHWORKS)	A
A14.0.1	LANDSCAPE PLAN	A
A18.0.1	DRIVEWAY PROFILE	A
A21.0.1	SLAB PLAN - UNIT 1	A
A21.1.1	LVL 01 FLOOR PLAN - UNIT 1	A
A21.2.1	LVL 02 FLOOR PLAN - UNIT 1	A
A21.5.1	ROOF PLAN - UNIT 1	A
A22.1.1	LVL 01 ELECTRICAL PLAN - UNIT 1	A
A22.2.1	LVL 02 ELECTRICAL PLAN - UNIT 1	A
A30.0.1	ELEVATIONS - UNIT 1	A
A30.0.2	ELEVATIONS - UNIT 1	A
A40.0.1	SECTION A - UNIT 1	A
B21.0.2	SLAB PLAN - UNIT 2	A
B21.1.2	LVL 01 FLOOR PLAN - UNIT 2	A
B21.5.2	ROOF PLAN - UNIT 2	A
B22.1.1	LVL 01 ELECTRICAL PLAN - UNIT 2	А
B30.0.1	ELEVATIONS - UNIT 2	A
B30.1.1	ELEVATIONS - UNIT 2	A
B40.0.2	SECTION B - UNIT 2	A
C21.0.1	SLAB PLAN - UNIT 3	A
C21.1.1	LVL 01 FLOOR PLAN - UNIT 3	A
C21.1.2	LVL 02 FLOOR PLAN - UNIT 3	A
C21.5.1	ROOF PLAN - UNIT 3	A
C22.1.1	LVL 01 ELECTRICAL PLAN - UNIT 3	A
C22.1.2	LVL 02 ELECTRICAL PLAN - UNIT 3	A
C30.0.1	ELEVATIONS - UNIT 3	А

SHEET	TITLE	REV
C30.0.2	ELEVATIONS - UNIT 3	A
C40.0.1	SECTION - UNIT 3	A
D21.0.1	SLAB PLAN - UNIT 4	A
D21.1.2	LVL 01 FLOOR PLAN - UNIT 4	A
D21.5.1	ROOF PLAN - UNIT 4	A
D22.1.1	LVL 01 ELECTRICAL PLAN - UNIT 4	А
D30.0.1	ELEVATIONS - UNIT 4	А
D30.0.2	ELEVATIONS - UNIT 4	A
D40.0.1	SECTION - UNIT 4	А
E21.0.1	SLAB PLAN - UNIT 5	А
E21.1.3	LVL 01 FLOOR PLAN - UNIT 5	А
E21.5.1	ROOF PLAN - UNIT 5	А
E22.1.1	LVL 01 ELECTRICAL PLAN - UNIT 5	А
E30.0.1	ELEVATIONS - UNIT 5	А
E30.0.2	ELEVATIONS - UNIT 5	А
E40.0.1	SECTION - UNIT 5	А

SHEET TOTAL: 44

SUMMARY OF BASIX COMMITMENTS

This is a summary of the BASIX Commitments as detailed in the BASIX Certificate. Refer to the CURRENT BASIX Certificate for Complete details. For definitions refer to basix.nsw.gov.au

, or domination to satisfying that									
WATER COI	MMITMEN	TS							_/
Fixtures									
Shower H	eads			Star			Basin Taps		ír
Kitchen T	aps		4.5	Star		Toilet		4/Sta	ar
Alternative W									
Minimum Tar	k Size (L)	18	800Ltr	С	ollected	from Ro	of Are	a⁄(m2)	153.56
Tank Connec	ted To:							, 	
All Toilets		Yes			Laundr	y W/M Co	old/Ta _l	yes Yes	i
One Outdoor	Тар	Yes					<u>/</u>		
THERMAL C	OMFORT C	OMM	IITMEI	NTS	- Refer	o Therm	al Per	formance	Spec.
ENERGY CO	MMITMENT	S							
Hot Water	Gas Insta	ntane	ous - 6	Sta	ır				
Cooling	Living		1 Pha	se D	Oucted A/	ć		EER 3.0 - 3.5	
System	Bedroom	ıs	Ceilin	g Fa	ın + 3 🗗 ha	ase Ducte	Ducted A/C EER 3.0 - 3.5		0 - 3.5
Heating	Living	1 Phase Ducted A/C			С	EER 3.5 - 4		5 - 4.0	
System	Bedroom	drooms 1 Phase Ducted A/C				C	EER 3.5 - 4.0		
	1 x Bathroom Fan ducted to exterio		rior		Manual	on/off			
Ventilation	Kitchen	Fan dycted to exterior		Manual	on/off				
	Laundry		Fan ducted to exterio			rior	r Manual on/of		on/off
Natural	Window/	Skyli	ght in	Kitc	itchen As drav			drawn	
Lighting	Window/S	Skylig	tht in	Batl	hrooms/	Toilets		drawn	
Artificial	Number o	of bec	edrooms		2-3	_	dicated	Yes	
Lighting	Number o	f Livi	ng/Dir	ning	rooms	1-2		Dedicated Ye	
(rooms to be	Kitchen					Yes		dicated	Yes
primarily lit by fluorescent or	All Bathrms/Toilets			Yes		dicated	Yes		
LED lights)	Laundry			Yes		dicated	Yes		
LLD lights)	All Hallw	All Hallways			Yes	De	dicated	Yes	
OTHER COM	MITMENTS								
Outdoor clothes line			Yes Ventilated refrigerator space			No			
Stove/Oyen	n Gas cooktop & electric oven								

REFER TO TENDER

TORRENS TITLE SUBDIVISION

COMMUNITY TITLE SUBDIVISION





Alternative Energy | Photovoltaic System:

REAR PERSPECTIVE



A.C.N. 000 939 980

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BUILDERS LIC. No. 5117

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No.	Date	Description	Drn
Α	21.03.24	ISSUED FOR DA APPLICATION	GR

GRUGEON

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR

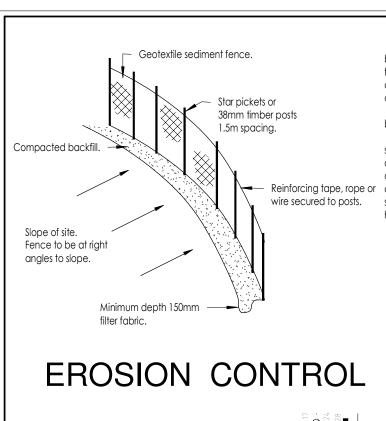
Sheet Title

COVER SHEET

NSW 2321

1:100		@ A
Checked by Owner	Date	Signed by Builder
Drawn by	GR	Checked
Date		25.10.23

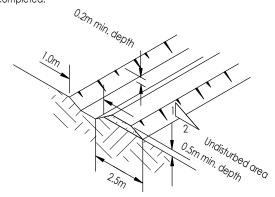
CUSTOM



All erosion and sediment control measures required as conditions of building approval to be installed prior to any other work such as cut and fill taking place on site. These measures to be maintained throughout the course of construction and satisfactory stabilisation of the site upon completion of the works.

Control measures to be in accordance with Council's information brochure, and the Department of Conservation and Land Management

All sediment control techniques including runoff diversion techniques, sediment trapping devices, construction of entrances/exits, buffer zones and revegetation techniques shall be constructed to prevent sediment and other debris leaving the site or entering council drainage system. All such Reinforcing tape, rope or control measures to be maintained in a sound and workable condition and shall not be removed from site until permanent rehabilitation measures have been completed.



width 15 metres Construction site 200mm min 300mm mir Construction Notes 1. Strip topsoil and level site. Existing roadway Runoff directed to sediment trap/fence 2. Compact subgrade. DGB 20 roadbase or 3. Cover area with needle-punched geotextile. 30mm aggregate

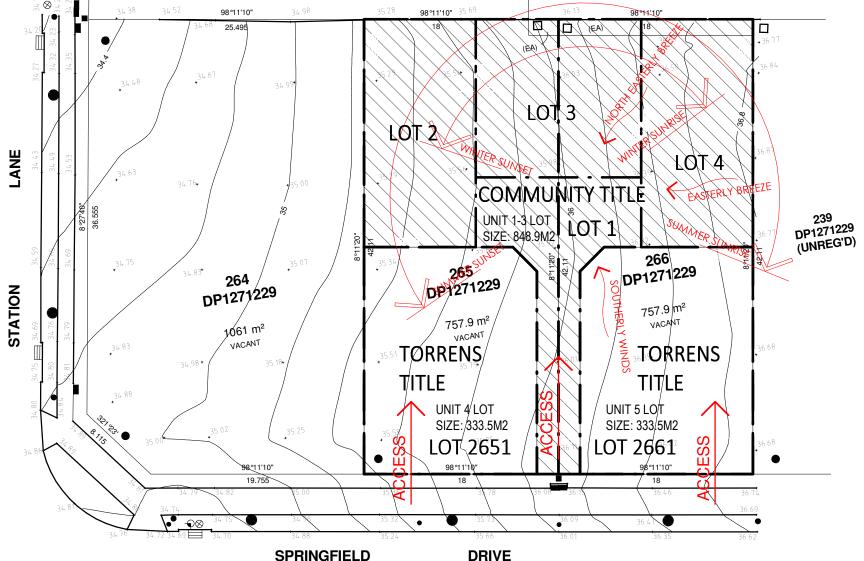
4. Construct 200mm thick pad over geotextile using roadbase or 300mm aggregate. Minimum length 15 metres or to building alignment. Minimum width 3 metres.

5. Construct hump immediately within boundary to divert water to a sediment fence or other sediment trap.

Geotextile fabric designed to prevent intermixing of subgrade and base materials and to maintain good properties of the sub-base layers

Geofabric may be a woven or needle punched product with a minimum CBR burst strength (AS3706.4-90) or 2500 N.





STAGE 1:

3 LOT SUBDIVISION

2 FRONT LOTS - TORRENS TITLE

STAGE 2:

3 UNIT COMMUNITY TITLE SUBDIVISION

REFER TO TENDER

TORRENS TITLE SUBDIVISION

COMMUNITY TITLE SUBDIVISION

SITE ANALYSIS PLAN 1:350

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457 HIGH STREET, MAITLAND. 2320

PHONE:(02)49341400

BUILDERS LIC. No. 5117

VALLEY

HOMES



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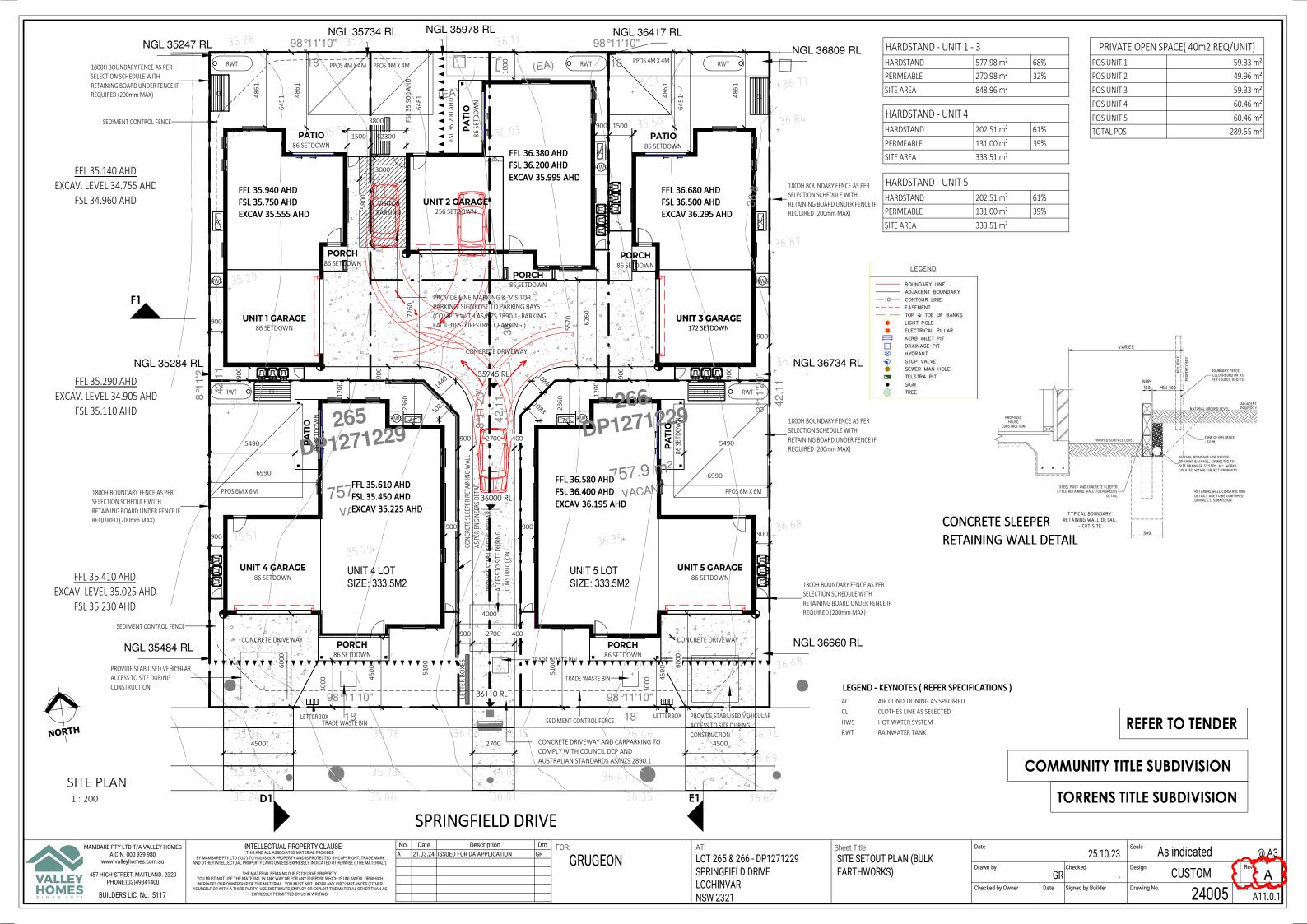
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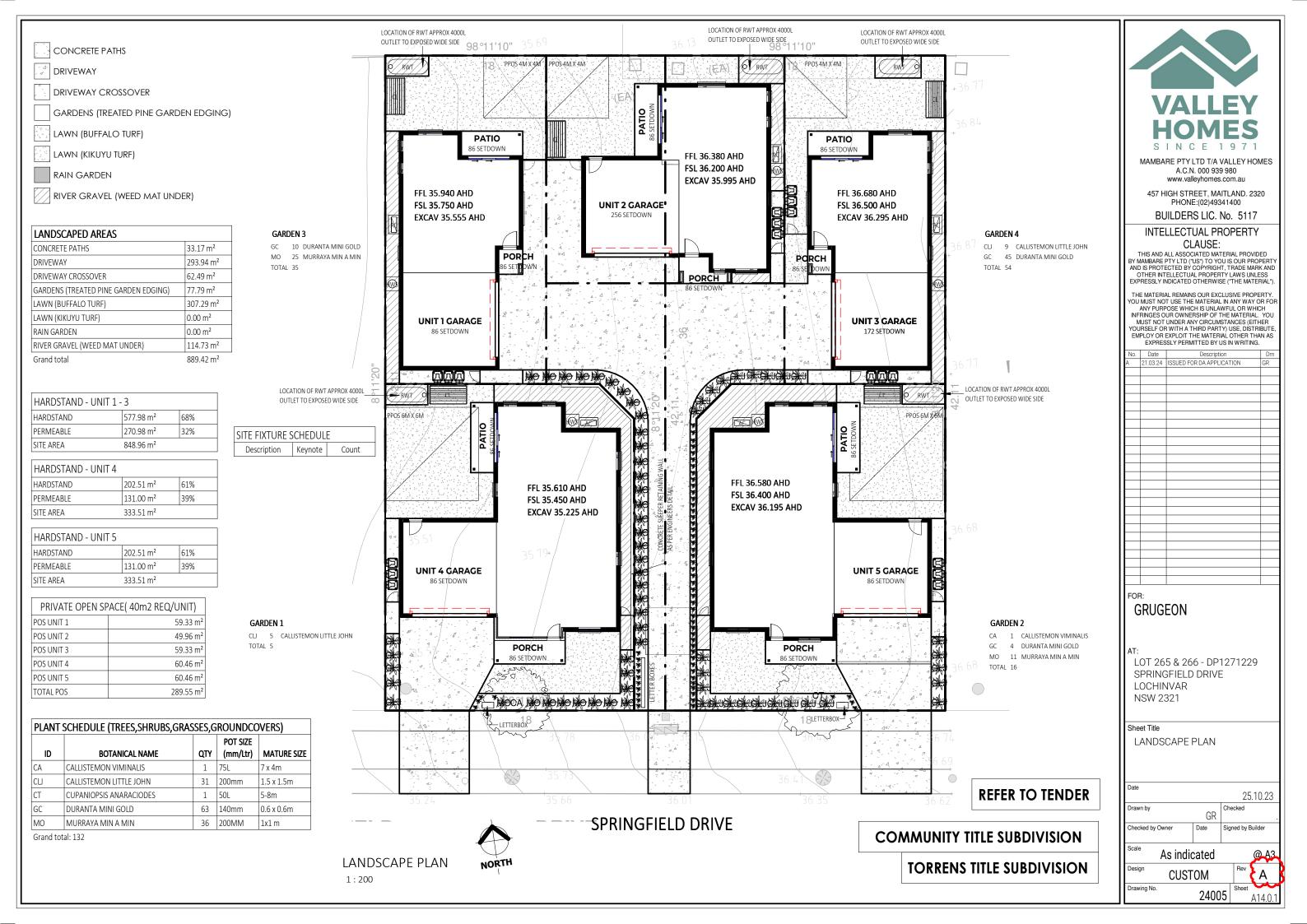
LOT 265 & 266 - DP1271229 **GRUGEON** SPRINGFIELD DRIVE **LOCHINVAR** NSW 2321

SITE ANALYSIS, EROSION CONTROL

As indicated 25.10.23 Drawn by Checked **CUSTOM** GR Checked by Owne Signed by Builder









SECTION F

1:100

REFER TO TENDER

COMMUNITY TITLE SUBDIVISION

HOMES

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,	Α	21.03.24	ISSUED FOR DA APPLICATION	GR	
").					<u> </u>
AS.					

AT: LOT 2 SPRIN GRUGEON LOCH NSW 2321

	Sheet Title
265 & 266 - DP1271229	DRIVEWAY PROFILE
INGFIELD DRIVE	
HINVAR	

Date		25.10.23	Scale	1:100
Drawn by	GR	Checked .	Design	CUSTOM
Checked by Owner	Date	Signed by Builder	Drawing No.	240

7940 3840 4100 3840 3950 135 x 135 TIMBER POSTS AS SPECIFIED-**PATIO** 86 SETDOWN FFL 35.940 AHD FSL 35.750 AHD 700 EXCAV 35.555 AHD 1800 2040 LDRY PORCH PDR 3840 900 **UNIT 1 GARAGE** 7940 6260 150 1530 1530 6410 7940

CONCRETE WAFFLE SLAB TO BE CONSTRUCTED TO THE ENGINEERS DETAILS AND LAYOUT AS SHOWN ON THE WORKING DRAWINGS OR AS SUPPLIED IN ADDITION TO THE DRAWINGS.

 $45 \mathrm{mm}$ SET DOWN IN SLAB FOR WET AREA TILING SHOWN HATCHED.

REFER TO TENDER

COMMUNITY TITLE SUBDIVISION

VALLEY HOMES SINCE 1971

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FOE	FOR:		

FOR:

GRUGEON

AT:

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

SLAB PLAN - UNIT 1

 Date
 25.10.23

 Drawn by
 Checked

Checked by Owner Date Signed by Builder

1:100

CUSTOM

OM Rev A
24005 A21.0.1

SLAB PLAN - UNIT 1

1:100

FLOOR AREAS UNIT 1

 PORCH
 2.30 m²

 GARAGE
 40.00 m²

 LIVING
 63.76 m²

 UPSTAIRS LIVING
 74.15 m²

 PATIO
 6.28 m²

 TOTAL
 186.48 m²

SHELVING NOTES:

MELAMINE SHELF AND HANGING RAIL TO ROBES BANK OF DRAWS & SHELVES TO ROBES 4x MELAMINE SHELVES TO LINEN CUPBOARD

LEGEND - KEYNOTES (REFER SPECIFICATIONS)

AC AIR CONDITIONING AS SPECIFIED

BRM BROOM CLOSET

S BASIN

CONC-1 CONCRETE WAFFLE POD SLAB TO ENGRS SPECIFICATION

DP DOWNPIPE AS SPECIFIED

DW DISHWASHER AS SPECIFIED ET-1 EXTERNAL TILE AS SPECIFIED

HWS HOT WATER SYSTEM
PTY KITCHEN PANTRY

REF REFRIGERATOR OPENING AS SPECIFIED

SI SINK AS SPECIFIED
TAP TAP AS SPECIFIED

WC WATER CLOSET AS SPECIFIED

WM WASHING MACHINE

VALLEY
HOMES
SINCE 1971

MAMBARE PTYLTD T/A VALLEY HOMES

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FOR: GRUGEON

AT: LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

LVL 01 FLOOR PLAN - UNIT 1

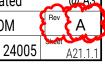
Date
Drawn by

25.10.23 GR Checked

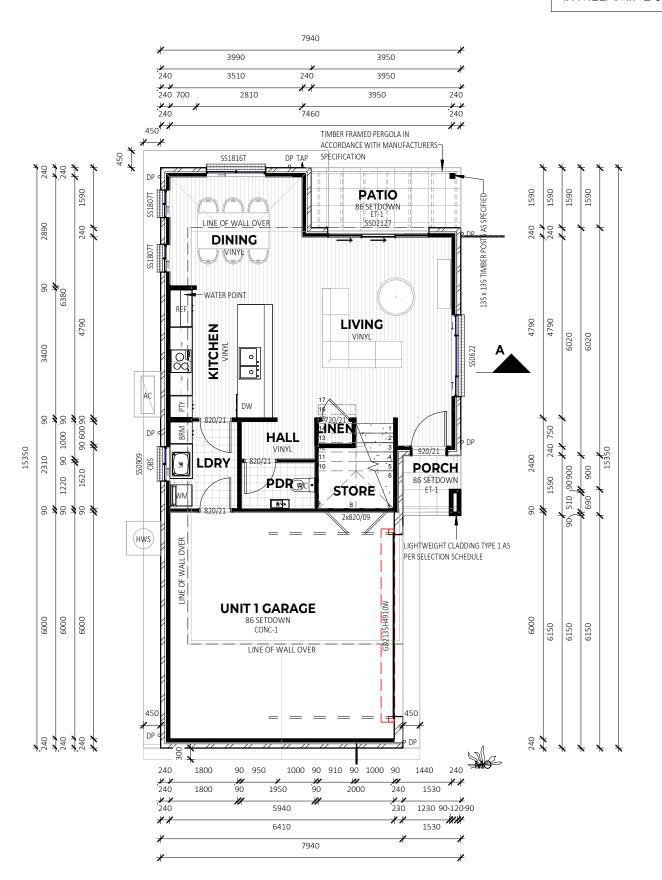
Checked by Owner Date

As indicated

Design CUSTOM
Drawing No.



Signed by Builder



DOOR LEAF LEGEND: XXX/21=2040H LEAF XXX/24=2340H LEAF

REFER TO TENDER

LVL 01 FLOOR PLAN - UNIT 1 1:100



COMMUNITY TITLE SUBDIVISION

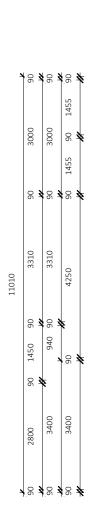
FLOOR AREAS UNIT 1

PORCH 2.30 m² **GARAGE** 40.00 m² LIVING 63.76 m² UPSTAIRS LIVING 74.15 m² PATIO 6.28 m² TOTAL 186.48 m²

SHELVING NOTES:

MELAMINE SHELF AND HANGING RAIL TO ROBES BANK OF DRAWS & SHELVES TO ROBES 4x MELAMINE SHELVES TO LINEN CUPBOARD

7220 3130 90 600 90 3130 90 600 90 3130 3130 2000 90 1095 1590







LVL 02 FLOOR PLAN - UNIT 1

1:100

LEGEND - KEYNOTES (REFER SPECIFICATION...

DOWNPIPE AS SPECIFIED MX MIXER AS SPECIFIED SHOWER ROSE AS SPECIFIED TOWEL RAIL AS SPECIFIED WATER CLOSET AS SPECIFIED



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			,
	_		

GRUGEON

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

LVL 02 FLOOR PLAN - UNIT 1

GR

Drawing No.

25.10.23 Checked

Signed by Builder

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As indicated

Scale CUSTOM

24005

DOOR LEAF LEGEND: XXX/21=2040H LEAF XXX/24=2340H LEAF

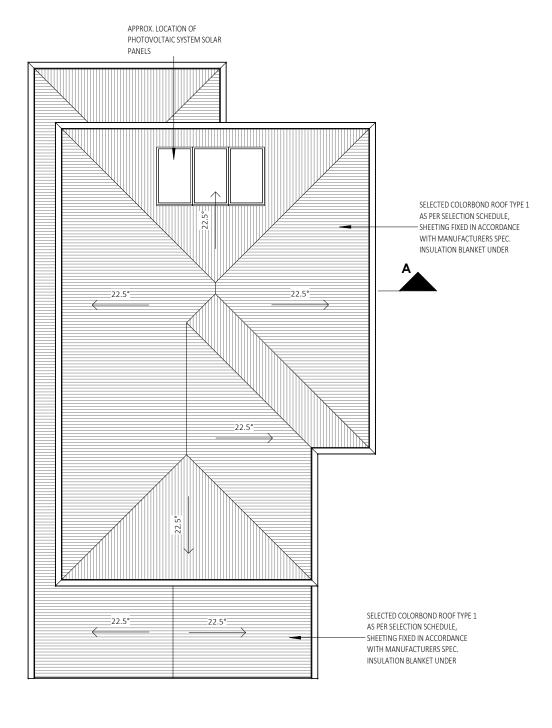
NOTE -

ALL UPPER FLOOR WINDOW OPENINGS TO BE PERMANENTLY RESTRICTED TO 125mm OPENING RESTRICTION AS PER NCC/BCA.

REFER TO TENDER

TORRENS TITLE SUBDIVISION

LEGEND - KEYNOTES (REFER SPECIFICATION...





REFER TO TENDER

COMMUNITY TITLE SUBDIVISION



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No.	Date	Description	Drn
Α	21.03.24	ISSUED FOR DA APPLICATION	GR

GRUGEON

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

ROOF PLAN - UNIT 1

25.10.23 Drawn by Checked GR

Checked by Owner Signed by Builder

Scale 1:100

Design CUSTOM Drawing No.

ROOF PLAN - UNIT 1

1:100

- LED DOWNLIGHT RECESSED
- (D)² LED DOWNLIGHT DIRECTIONAL
- LED DOWNLIGHT FIXED
- PEDANT LIGHT TYPE 1
- PEDANT LIGHT TYPE 2
- PEDANT LIGHT TYPE 3
- EXTERNAL WALL LIGHT
- S SENSOR LIGHT
- **HEATER FAN LIGHT**
- EXHAUST FAN LIGHT
- EXTERNALLY DUCTED EXHAUST FAN
- FLUORESCENT LIGHT SINGLE

LED BATTEN LIGHT



CEILING FAN



CEILING FAN WITH LIGHT



LOCATION OF SMOKE ALARM IN ACCORDANCE WITH AS3786.



GAS POINT GPO SINGLE

- **GPO DOUBLE**
- GPO SINGLE WATERPROOF
- GPO DOUBLE WATERPROOF
- GPO SINGLE ELEVATED 1000
- GPO DOUBLE ELEVATED 1000



ELECTRICAL METER & FUSE BOX





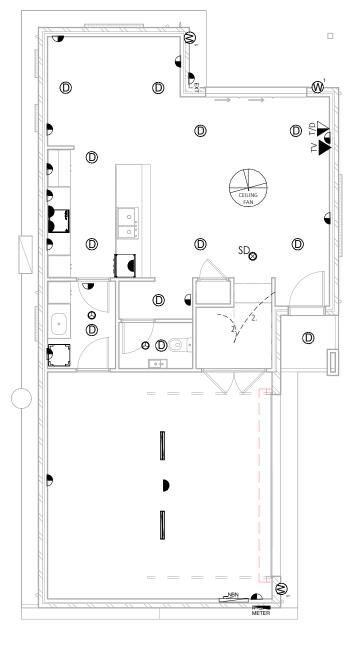
- HARD WIRED DOOR BELL
- LIGHT SWITCH SINGLE
- LIGHT SWITCH MULTIPLE
- LIGHT SWITCH EXTERNAL

~~ 2 WAY SWITCHING

 $\sqrt{\frac{3}{3}}$ 3 WAY SWITCHING

LECTRICAL FIXTURE SCHED	ULE
Туре	Count
PO SINGLE	2
PO SINGLE	1
H_EXHAUST FAN	2
ECTRICAL METER & FUSE BOX	1
PO DOUBLE	13
PO DOUBLE WP	1
PO SINGLE	1
BN CONNECTION BOX	1
MOKE ALARM	1
ELEPHONE / DATA POINT	1
/ POINT	1
rand total: 25	25

LIGHTING FIXTURE SCHEDULE	
Туре	Count
LED BATTEN LIGHT	2
WALL LIGHT	2
CEILING FAN	1
LED DOWNLIGHT	12
WALL LIGHT	1
Grand total: 18	18



LVL 01 ELECTRICAL PLAN - UNIT 1

1:100

LEGEND - KEYNOTES (REFER SPECIFICATIONS)



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LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

LVL 01 ELECTRICAL PLAN - UNIT

25.10.23 Drawn by Checked GR Checked by Owner Signed by Builder

Scale 1:100

Design CUSTOM Drawing No.

@ A3 Α 24005

REFER TO TENDER

COMMUNITY TITLE SUBDIVISION

<u> </u>	LED DOWNLIGHT RECESSED	`
(11)	1 F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1

- 2	
(M)	LED DOMMINGHE DIDECTIONAL
(D) ²	LED DOWNLIGHT DIRECTIONAL

LED DOWNLIGHT FIXED

PEDANT LIGHT TYPE 1

PEDANT LIGHT TYPE 2

PEDANT LIGHT TYPE 3

EXTERNAL WALL LIGHT

SENSOR LIGHT S

HEATER FAN LIGHT

EXHAUST FAN LIGHT

EXTERNALLY DUCTED EXHAUST FAN

FLUORESCENT LIGHT SINGLE

LED BATTEN LIGHT



CEILING FAN



CEILING FAN WITH LIGHT



LOCATION OF SMOKE ALARM IN ACCORDANCE WITH AS3786.



GAS POINT

GPO SINGLE

GPO DOUBLE

GPO SINGLE WATERPROOF

GPO DOUBLE WATERPROOF

GPO SINGLE ELEVATED 1000

GPO DOUBLE ELEVATED 1000

NBN CONNECTION BOX

ELECTRICAL METER & FUSE BOX

TV POINT



HARD WIRED DOOR BELL

LIGHT SWITCH SINGLE

LIGHT SWITCH MULTIPLE

LIGHT SWITCH EXTERNAL

-- 2 WAY SWITCHING

 $\sqrt{\frac{1}{3}}$ 3 WAY SWITCHING

ELECTRICAL FIXTURE SCHED	ULE
Type	Count
TELEPHONE / DATA POINT	2
VH_EXHAUST FAN	2
GPO DOUBLE	15
SMOKE ALARM	1
TELEPHONE / DATA POINT	1
TV POINT	1
Grand total: 22	22

LVL 02 ELECTRICAL PLAN - UNIT 1

1:100

CEILING FAN/LIGHT
© CERING FAN/JIGHT

LIGHTING FIXTURE SCHEDULE

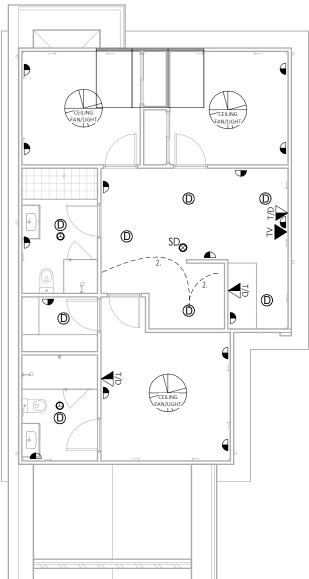
CEILING FAN LIGHT LED DOWNLIGHT

Grand total: 11

Count

8

LEGEND - KEYNOTES (REFER SPECIFICATIONS)



REFER TO TENDER

TORRENS TITLE SUBDIVISION

VALLEY
HOMES SINCE 1971
MAMBARE PTY LTD T/A VALLEY HOMES A.C.N. 000 939 980 www.valleyhomes.com.au

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NO.	Date	Description	υrn
Α	21.03.24	ISSUED FOR DA APPLICATION	GR
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GRUGEON

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

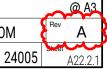
Sheet Title

LVL 02 ELECTRICAL PLAN - UNIT

25.10.23 Drawn by Checked GR Checked by Owner Signed by Builder

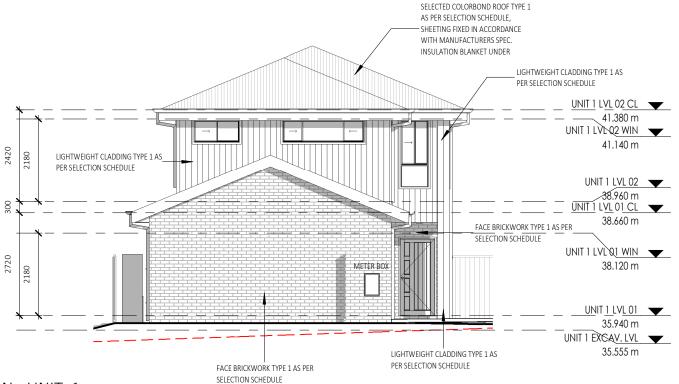
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Design CUSTOM Drawing No.



LEGEND - KEYNOTES (REFER SPECIFICATIONS)

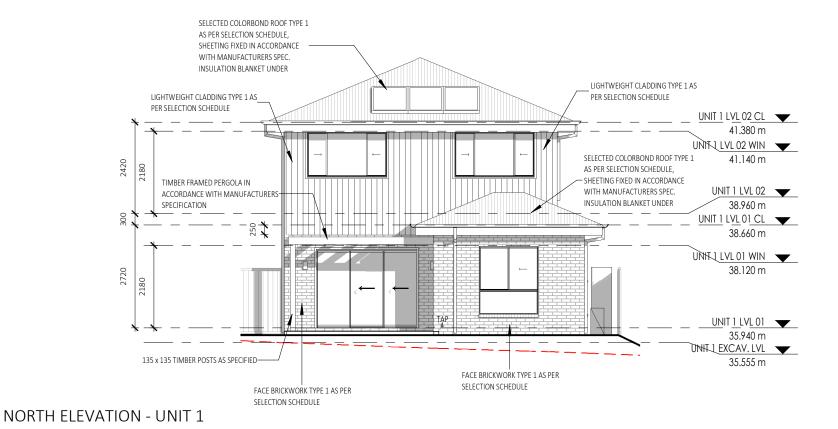
TAP AS SPECIFIED



SOUTH ELEVATION - UNIT 1

1:100

1:100



REFER TO TENDER

COMMUNITY TITLE SUBDIVISION



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Α	21.03.24	ISSUED FOR DA APPLICATION	GR

GRUGEON

AT: LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

ELEVATIONS - UNIT 1

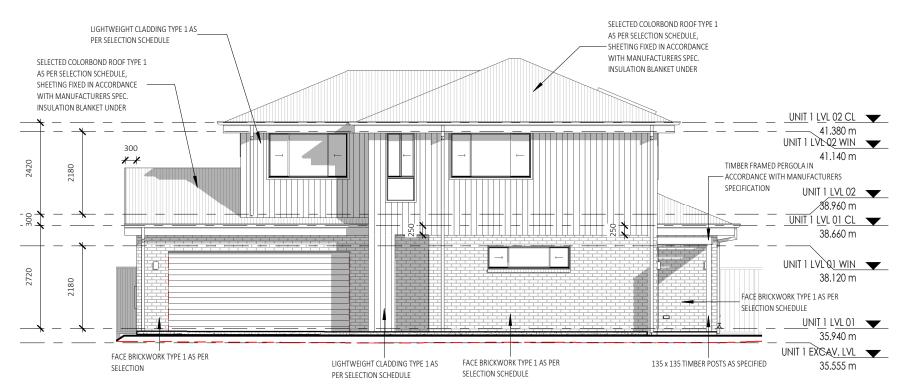
Drawn by GR

Checked by Owner Date Signed by Builder

1:100

Drawing No.





EAST ELEVATION - UNIT 1

1:100 LEGEND - KEYNOTES (REFER SPECIFICATIONS)



WEST ELEVATION - UNIT 1

1:100

REFER TO TENDER

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No.	Date	Description	Drn
Α	21.03.24	ISSUED FOR DA APPLICATION	GR
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GRUGEON

AT: LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

ELEVATIONS - UNIT 1

Jale		25.10.23
Orawn by	GR	Checked

Checked by Owner Date

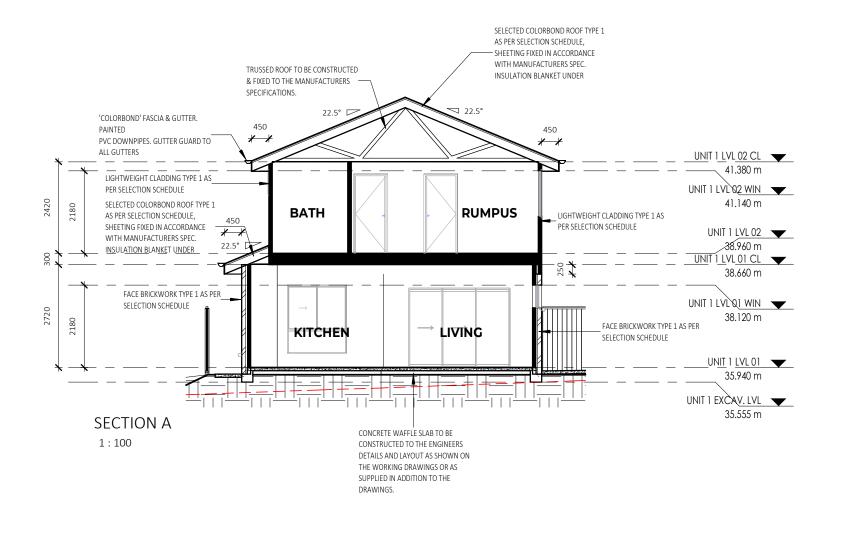
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Design CUSTOM

Drawing No.



Signed by Builder



ALL BRICKWORK TO BE FULLY ARTICULATED IN ACCORDANCE WITH AS 3700 MASONRY STRUCTURES OR AS4773 MASONRY FOR SMALL BUILDINGS, PARTS 1 AND 2.

ARTICULATION JOINTS MUST HAVE A WIDTH NOT LESS THAN 10mm AND BE PROVIDED IN FOLLOWING LOCATIONS:

- * FOR STRAIGHT, CONTINUOUS WALLS HAVING NO OPENINGS, THE MAXIMUM SPACING OF 10mm ARTICULATION JOINTS UP TO 4m HIGH: EXTERNAL FACE FINISHED MASONRY 5.0m CTS; EXTERNAL RENDERED AND/OR PAINTED MASONRY 4.5m OR
- * FOR STRAIGHT, CONTINUOUS WALLS HAVING NO OPENINGS, THE MAXIMUM SPACING OF 10mm ARTICULATION JOINTS FROM 4m-8.5m H: EXTERNAL FACE FINISHED MASONRY 3.5m CTS; EXTERNAL RENDERED AND/OR PAINTED MASONRY 3.2m
- * MAXIMUM SPACING OF ARTICULATION JOINTS IN WALLS WHERE WINDOW OR DOOR OPENINGS MORE THAN 900 x 900mm OCCUR, TO BE NO MORE THAN 5.0m CTRS, AND POSITIONED IN LINE WITH ONE EDGE OF THE OPENING; AND
- * WHERE THE HEIGHT OF THE WALL CHANGES BY MORE THAN 20%, AT THE POSITION OF CHANGE IN HEIGHT; AND
- * WHERE WALLS CHANGE IN THICKNESS; AND
- * AT CONTROL OR CONSTRUCTION JOINTS IN FOOTING SLABS; AND * AT JUNCTIONS OF WALLS CONSTRUCTED OF DIFFERENT MASONRY MATERIALS; AND
- * AT DEEP CHASES (REBATES) FOR SERVICE PIPES.
- * AT A DISTANCE FROM ALL CORNERS NOT GREATER THAN 4500mm AND NOT LESS THAN 470mm FOR CAVITY WALLS OR 230mm FOR VENEER WALLS.

INSULATION NOTES:

R3.5 INSULATION TO CEILINGS (EXCLUDES GARAGES, PORCHES, BALCONIES AND ALFRESCOS).

R2.0 INSULATION TO EXTERNAL WALLS (EXCLUDES GARAGE WALLS)

R2.0 INSULATION TO INTERNAL GARAGE WALLS

UNDER SLAB INSULATION:

REFER TO GEOTECH S/M/H CLASS.

S&M CLASS - 310MM SLAB THICKNESS / 225MM THICK STYROFOAM PODS UNDER SLAB

H CLASS - 385MM SLAB THICKNESS / 300MM THICK STYROFOAM PODS UNDER SLAB

LEGEND - KEYNOTES (REFER SPECIFICATION...

REFER TO TENDER

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No.	Date	Description	Drn
Α	21.03.24	ISSUED FOR DA APPLICATION	GR

GRUGEON

A I:

LOT 265 & 266

SPRINGFIELD

L OCHINVAR

NSW 2321

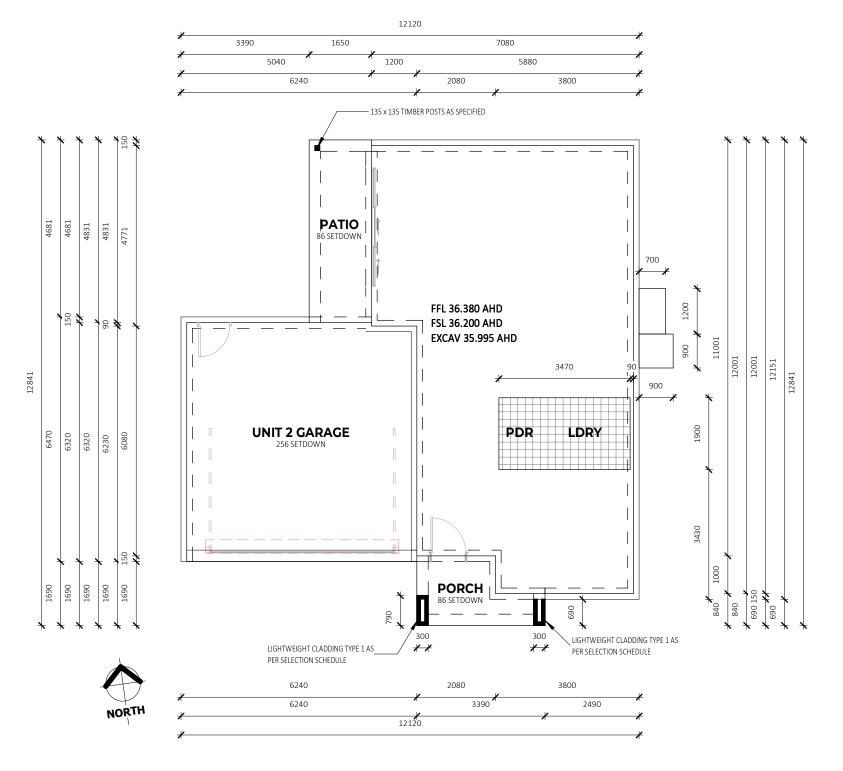
AT:
LOT 265 & 266 - DP1271229
SPRINGFIELD DRIVE
LOCHINVAR
Sheet
SEC

Sheet Title SECTION A - UNIT 1 Drawn by GR Checked . Checked by Owner Date Signed by Builder Drawing No. 240



CONCRETE WAFFLE SLAB TO BE CONSTRUCTED TO THE ENGINEERS DETAILS AND LAYOUT AS SHOWN ON THE WORKING DRAWINGS OR AS SUPPLIED IN ADDITION TO THE DRAWINGS.

45mm SET DOWN IN SLAB FOR WET AREA TILING SHOWN HATCHED.



REFER TO TENDER

COMMUNITY TITLE SUBDIVISION



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No.	Date	Description	Drn	
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GRUGEON

AT: LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

SLAB PLAN - UNIT 2

 Date
 25.10.23

 Drawn by
 GR
 Checked

 Checked by Owner
 Date
 Signed by Builder

Scale 1:100

Design CUSTOM
Drawing No.

OM Rev A 24005 B21.0.2

SLAB PLAN - UNIT 2

1:100

FLOOR AREAS UNIT 2

GARAGE 40.05 m² LIVING 76.16 m² **UPSTAIRS** 65.18 m²

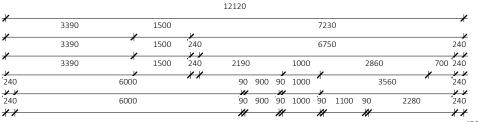
LIVING

PATIO 7.02 m² 192.47 m² TOTAL

DOOR LEAF LEGEND: XXX/21=2040H LEAF XXX/24=2340H LEAF

SHELVING NOTES:

MELAMINE SHELF AND HANGING RAIL TO ROBES BANK OF DRAWS & SHELVES TO ROBES 4x MELAMINE SHELVES TO LINEN CUPBOARD





REFER TO TENDER

COMMUNITY TITLE SUBDIVISION

LEGEND - KEYNOTES (REFER SPECIFICATIONS)

BRM BROOM CLOSET BS BASIN

CONCRETE WAFFLE POD SLAB TO ENGRS CONC-1

SPECIFICATION DOWNPIPE AS SPECIFIED DW DISHWASHER AS SPECIFIED

ET-1 KITCHEN PANTRY

REF REFRIGERATOR OPENING AS SPECIFIED

EXTERNAL TILE AS SPECIFIED

SINK AS SPECIFIED TAP AS SPECIFIED WATER CLOSET AS SPECIFIED WC

WASHING MACHINE

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NO.	Date	Description	Drn
Α	21.03.24	ISSUED FOR DA APPLICATION	GR

GRUGEON

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

LVL 01 FLOOR PLAN - UNIT 2

25.10.23 GR

As indicated

CUSTOM



LVL 01 FLOOR PLAN - UNIT 2

1:100

FLOOR AREAS UNIT 2

GARAGE 40.05 m² LIVING 76.16 m² **UPSTAIRS** 65.18 m² LIVING

PATIO 7.02 m² TOTAL 192.47 m²

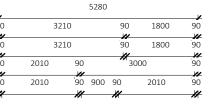
SHELVING NOTES:

MELAMINE SHELF AND HANGING RAIL TO ROBES BANK OF DRAWS & SHELVES TO ROBES 4x MELAMINE SHELVES TO LINEN CUPBOARD

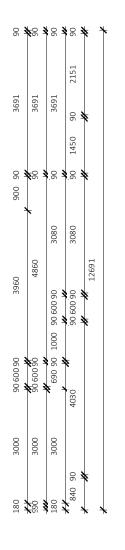
NOTE -

ALL UPPER FLOOR WINDOW OPENINGS TO BE PERMANENTLY RESTRICTED TO 125mm OPENING RESTRICTION AS PER NCC/BCA.

DOOR LEAF LEGEND: XXX/21=2040H LEAF XXX/24=2340H LEAF







LEGEND - KEYNOTES (REFER SPECIFICATION...

DOWNPIPE AS SPECIFIED MX MIXER AS SPECIFIED SHOWER ROSE AS SPECIFIED SWR SHOWER WALL RECESS AS SPECIFIED TR TOWEL RAIL AS SPECIFIED WATER CLOSET AS SPECIFIED

REFER TO TENDER



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GRUGEON

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

LVL 02 FLOOR PLAN - UNIT 2

25.10.23 Checked

GR

As indicated

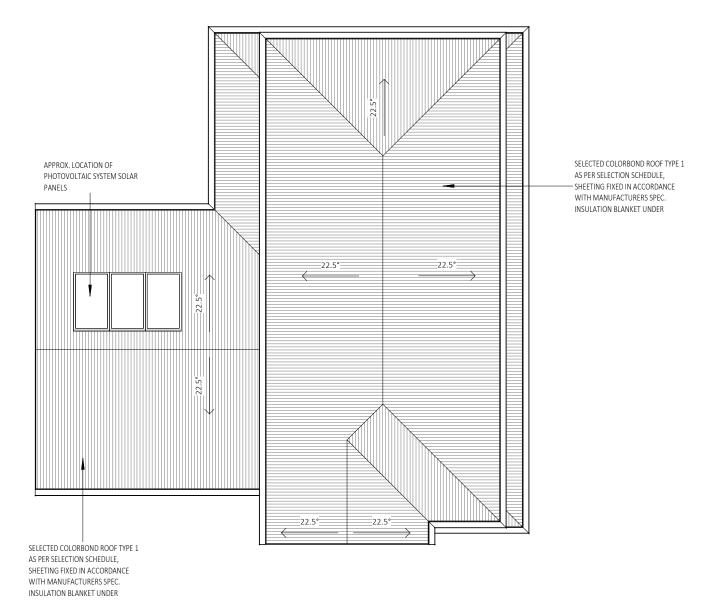
CUSTOM

LVL 02 FLOOR PLAN - UNIT 2

1:100

COMMUNITY TITLE SUBDIVISION

LEGEND - KEYNOTES (REFER SPECIFICATION...





ROOF PLAN - UNIT 2

1:100

REFER TO TENDER

COMMUNITY TITLE SUBDIVISION



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GRUGEON

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

ROOF PLAN - UNIT 2

25.10.23 Drawn by Checked GR

Checked by Owner

Scale 1:100

Design CUSTOM Drawing No.

Signed by Builder

- (D) LED DOWNLIGHT RECESSED
- (D) LED DOWNLIGHT DIRECTIONAL
- D LED DOWNLIGHT FIXED
- PEDANT LIGHT TYPE 1
- P² PEDANT LIGHT TYPE 2
- (P) PEDANT LIGHT TYPE 3
- ™ EXTERNAL WALL LIGHT
- S SENSOR LIGHT
- ♦ HEATER FAN LIGHT
- EXTERNALLY DUCTED EXHAUST FAN
- ⊢ FLUORESCENT LIGHT SINGLE

LED BATTEN LIGHT



CEILING FAN



CEILING FAN WITH LIGHT



LOCATION OF SMOKE ALARM IN ACCORDANCE WITH AS3786.



GAS POINT

- GPO SINGLE
- GPO DOUBLE
- GPO SINGLE WATERPROOF
- △ GPO SINGLE ELEVATED 1000
- ♠¹000 GPO DOUBLE ELEVATED 1000

NBN CONNECTION BOX

ELECTRICAL METER & FUSE BOX



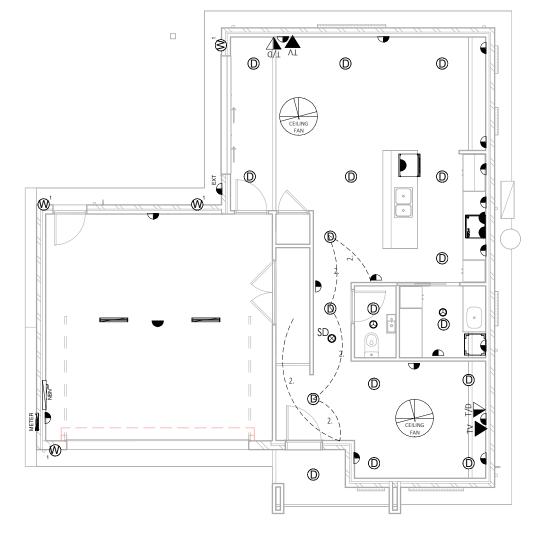


- √ HARD WIRED DOOR BELL
- × LIGHT SWITCH SINGLE
- ✓ LIGHT SWITCH MULTIPLE
- × LIGHT SWITCH EXTERNAL
- ____ 2 WAY SWITCHING

 $\sqrt{-\frac{1}{3}}$ $\sqrt{3}$ WAY SWITCHING

LECTRICAL FIXTURE SCHEDULE					
Туре	Count				
PO DOUBLE	11				
PO SINGLE	2				
PO SINGLE	1				
MOKE ALARM	1				
H_EXHAUST FAN	2				
ECTRICAL METER & FUSE BOX	1				
PO DOUBLE	6				
PO DOUBLE WP	1				
PO SINGLE	1				
BN CONNECTION BOX	1				
ELEPHONE / DATA POINT	2				
/ POINT	2				
rand total: 31	31				

LIGHTING FIXTURE SCHEDULE	
Туре	Count
CEILING FAN	2
LED BATTEN LIGHT	2
LED DOWNLIGHT	17
WALL LIGHT	4
Grand total: 25	25





LVL 01 ELECTRICAL PLAN - UNIT 2

1:100

LEGEND - KEYNOTES (REFER SPECIFICATIONS)

2.



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No.	Date	Description	Drn
Α	21.03.24	ISSUED FOR DA APPLICATION	GR
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GRUGEON

AT: LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

LVL 01 ELECTRICAL PLAN - UNI 2

		25.10.23
wn by	GR	Checked
ecked by Owner	Date	Signed by Builder

Scale 1:100

Drawing No.

0M Rev A 24005 R2 1 1

REFER TO TENDER

COMMUNITY TITLE SUBDIVISION

- LED DOWNLIGHT RECESSED
- (D)² LED DOWNLIGHT DIRECTIONAL
- LED DOWNLIGHT FIXED
- PEDANT LIGHT TYPE 1
- PEDANT LIGHT TYPE 2
- PEDANT LIGHT TYPE 3
- EXTERNAL WALL LIGHT
- SENSOR LIGHT S
- **HEATER FAN LIGHT**
- EXHAUST FAN LIGHT
- EXTERNALLY DUCTED EXHAUST FAN
- FLUORESCENT LIGHT SINGLE

LED BATTEN LIGHT



CEILING FAN



CEILING FAN WITH LIGHT



LOCATION OF SMOKE ALARM IN ACCORDANCE WITH AS3786.



- GPO SINGLE
- **GPO DOUBLE**
- GPO SINGLE WATERPROOF
- GPO DOUBLE WATERPROOF
- GPO SINGLE ELEVATED 1000
- GPO DOUBLE ELEVATED 1000



NBN CONNECTION BOX



TV POINT



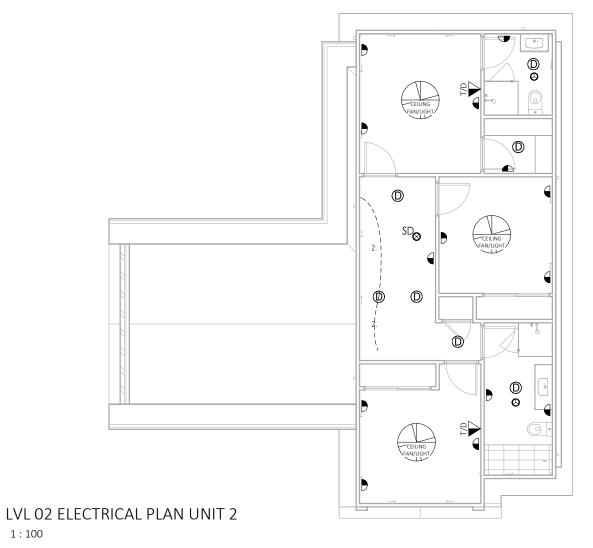
- HARD WIRED DOOR BELL
- LIGHT SWITCH SINGLE
- LIGHT SWITCH MULTIPLE
- LIGHT SWITCH EXTERNAL
- ~~ 2 WAY SWITCHING
- $\sqrt{\frac{1}{3}}$ 3 WAY SWITCHING

LIGHTING FIXTURE SCHEDULE				
Туре	Count			
CEILING FAN LIGHT	3			
LED DOWNLIGHT	7			
Grand total: 10	10			

ELECTRICAL FIXTURE SCHEDULE				
Count				
14				
1				
2				
2				
19				

LEGEND - KEYNOTES (REFER SPECIFICATIONS)

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TORRENS TITLE SUBDIVISION



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GRUGEON

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title LVL 02 ELECTRICAL PLAN - UNIT

25.10.23 Drawn by Checked GR

Scale 1:100

Drawing No.

Checked by Owner

Design CUSTOM



Signed by Builder

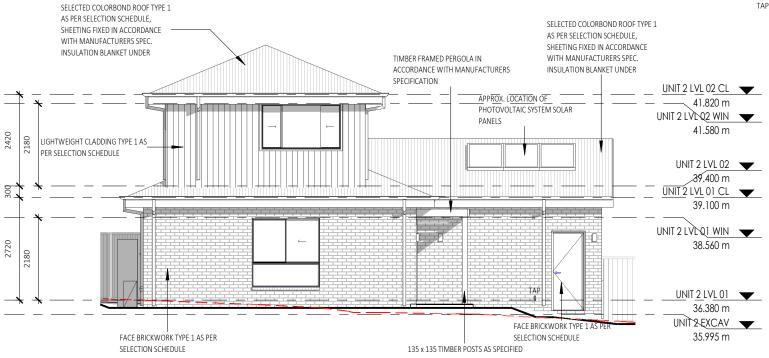


SOUTH ELEVATION - UNIT 2

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LEGEND - KEYNOTES (REFER SPECIFICATIONS)

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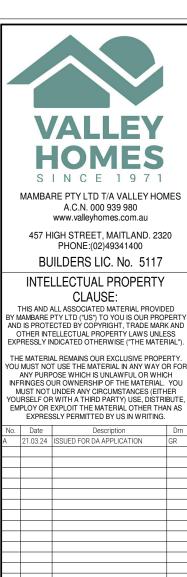


NORTH ELEVATION - UNIT 2

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REFER TO TENDER

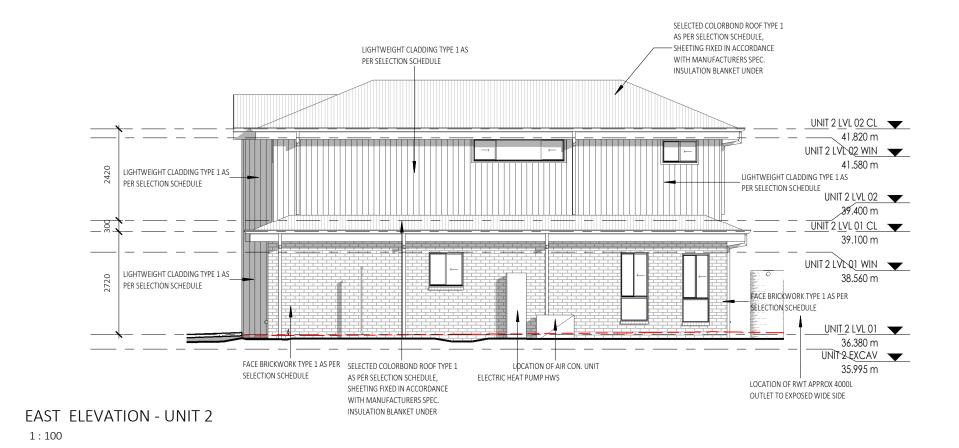
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LEGEND - KEYNOTES (REFER SPECIFICATIONS) SELECTED COLORBOND ROOF TYPE 1 AS PER SELECTION SCHEDULE, SHEETING FIXED IN ACCORDANCE WITH MANUFACTURERS SPEC. SELECTED COLORBOND ROOF TYPE 1 INSULATION BLANKET UNDER AS PER SELECTION SCHEDULE. SHEETING FIXED IN ACCORDANCE WITH MANUFACTURERS SPEC INSULATION BLANKET UNDER UNIT 2 LVL 02 CL 41.820 m UNIT 2 LVL Q2 WIN 41.580 m LIGHTWEIGHT CLADDING TYPE 1 AS_ LIGHTWEIGHT CLADDING TYPE 1 AS PER SELECTION SCHEDULE UNIT 2 LVL 02 PER SELECTION SCHEDULE *3*9.400 m UNIT 2 LVL 01 CL ▼ 39.100 m UNIT 2 LVL Q1 WIN 38.560 m LIGHTWEIGHT CLADDING TYPE 1 AS FACE BRICKWORK TYPE 1 AS PER SELECTION SCHEDULE PER SELECTION SCHEDULE UNIT 2 LVL 01 36.380 m UNIT 2 EXCAV FACE BRICKWORK TYPE 1 AS PER 135 x 135 TIMBER POSTS AS SPECIFIED 35.995 m TIMBER FRAMED PERGOLA IN SELECTION SCHEDULE FACE BRICKWORK TYPE 1 AS PER ACCORDANCE WITH MANUFACTURERS SELECTION SCHEDULE SPECIFICATION

WEST ELEVATION - UNIT 2

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GRUGEON

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

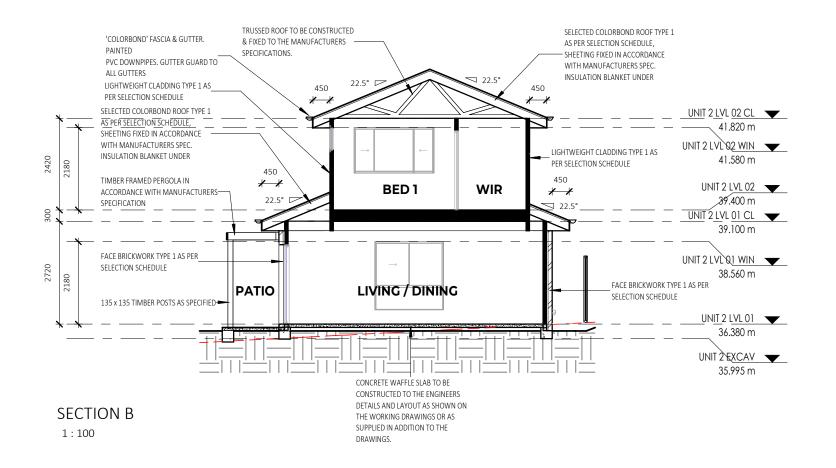
ELEVATIONS - UNIT 2

Date		25.10.23
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Checked by Owner	Date	Signed by Builder

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LEGEND - KEYNOTES (REFER SPECIFICATION...

ALL BRICKWORK TO BE FULLY ARTICULATED IN ACCORDANCE WITH AS 3700 MASONRY STRUCTURES OR AS4773 MASONRY FOR SMALL BUILDINGS, PARTS 1 AND 2.

ARTICULATION JOINTS MUST HAVE A WIDTH NOT LESS THAN 10mm AND BE PROVIDED IN FOLLOWING LOCATIONS:

- * FOR STRAIGHT, CONTINUOUS WALLS HAVING NO OPENINGS, THE MAXIMUM SPACING OF 10mm ARTICULATION JOINTS UP TO 4m HIGH: EXTERNAL FACE FINISHED MASONRY 5.0m CTS; EXTERNAL RENDERED AND/OR PAINTED MASONRY 4.5m OR
- * FOR STRAIGHT, CONTINUOUS WALLS HAVING NO OPENINGS, THE MAXIMUM SPACING OF 10mm ARTICULATION JOINTS FROM 4m-8.5m H: EXTERNAL FACE FINISHED MASONRY 3.5m CTS; EXTERNAL RENDERED AND/OR PAINTED MASONRY 3.2m
- * MAXIMUM SPACING OF ARTICULATION JOINTS IN WALLS WHERE WINDOW OR DOOR OPENINGS MORE THAN 900 x 900mm OCCUR, TO BE NO MORE THAN 5.0m CTRS, AND POSITIONED IN LINE WITH ONE EDGE OF THE OPENING; AND
- * WHERE THE HEIGHT OF THE WALL CHANGES BY MORE THAN 20%, AT THE POSITION OF CHANGE IN HEIGHT; AND
- * WHERE WALLS CHANGE IN THICKNESS; AND
- * AT CONTROL OR CONSTRUCTION JOINTS IN FOOTING SLABS; AND
- * AT JUNCTIONS OF WALLS CONSTRUCTED OF DIFFERENT MASONRY MATERIALS; AND
- * AT DEEP CHASES (REBATES) FOR SERVICE PIPES.
- * AT A DISTANCE FROM ALL CORNERS NOT GREATER THAN 4500mm AND NOT LESS THAN 470mm FOR CAVITY WALLS OR 230mm FOR VENEER WALLS.

INSULATION NOTES:

R3.5 INSULATION TO CEILINGS (EXCLUDES GARAGES, PORCHES, BALCONIES AND ALFRESCOS).

R2.0 INSULATION TO EXTERNAL WALLS (EXCLUDES GARAGE WALLS)

R2.0 INSULATION TO INTERNAL GARAGE WALLS

UNDER SLAB INSULATION:

REFER TO GEOTECH S/M/H CLASS.

S&M CLASS - 310MM SLAB THICKNESS / 225MM THICK STYROFOAM PODS UNDER SLAB

H CLASS - 385MM SLAB THICKNESS / 300MM THICK STYROFOAM PODS UNDER SLAB

COMMUNITY TITLE SUBDIVISION

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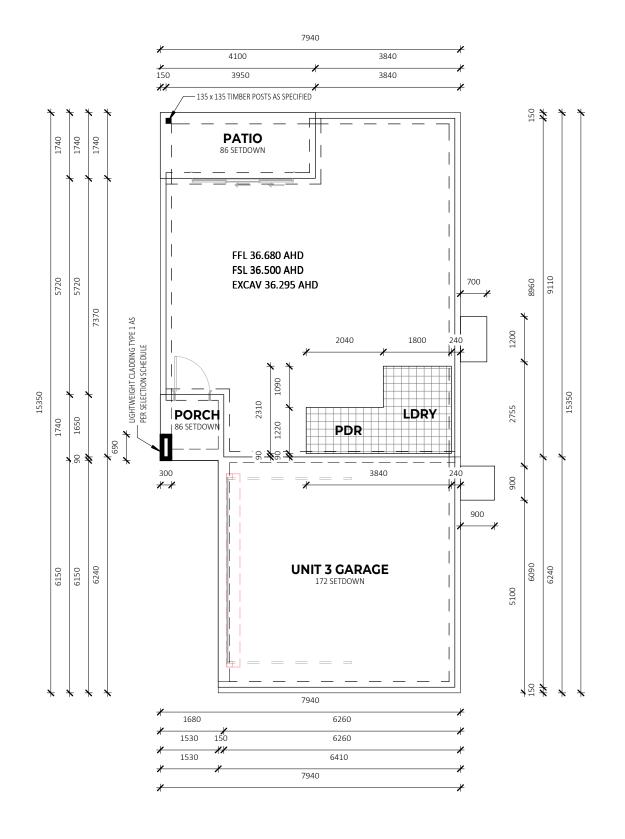
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REFER TO TENDER

LEGEND - KEYNOTES (REFER SPECIFICATIONS)

CONCRETE WAFFLE SLAB TO BE CONSTRUCTED TO THE ENGINEERS DETAILS AND LAYOUT AS SHOWN ON THE WORKING DRAWINGS OR AS SUPPLIED IN ADDITION TO THE DRAWINGS.

45mm SET DOWN IN SLAB FOR WET AREA TILING SHOWN HATCHED.



SLAB PLAN - UNIT 3 1:100

REFER TO TENDER

COMMUNITY TITLE SUBDIVISION



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LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

SLAB PLAN - UNIT 3

25.10.23 Drawn by Checked

GR Checked by Owner Signed by Builder

Scale 1:100

Design CUSTOM Drawing No.

24005

FLOOR AREAS UNIT 3

TOTAL

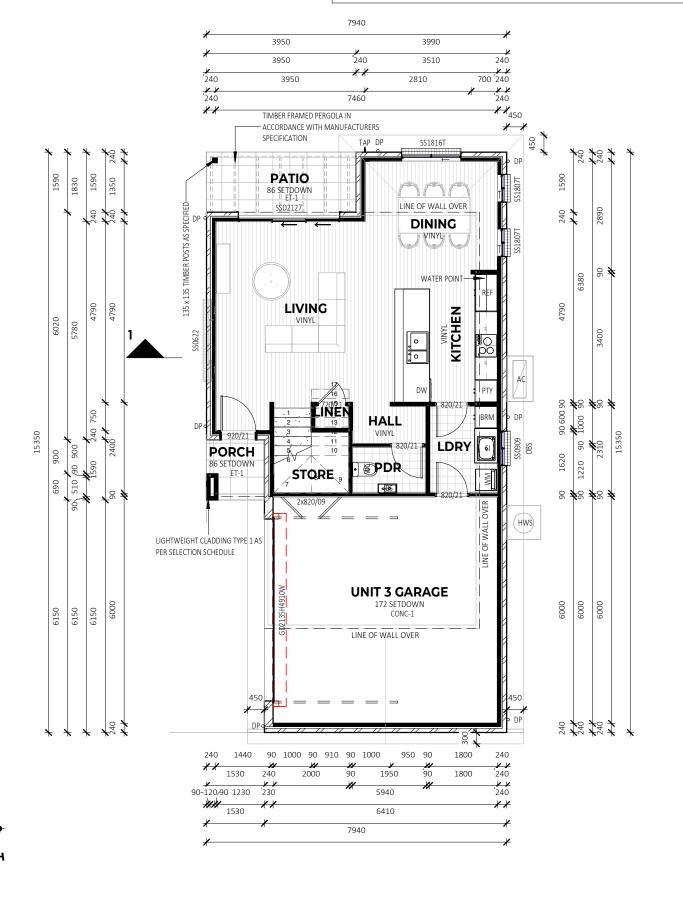
PORCH 2.30 m² **GARAGE** 40.00 m² LIVING 63.76 m² **UPSTAIRS LIVING** 74.15 m² PATIO 6.28 m²

186.48 m²

DOOR LEAF LEGEND: XXX/21=2040H LEAF XXX/24=2340H LEAF

SHELVING NOTES:

MELAMINE SHELF AND HANGING RAIL TO ROBES BANK OF DRAWS & SHELVES TO ROBES 4x MELAMINE SHELVES TO LINEN CUPBOARD



LEGEND - KEYNOTES (REFER SPECIFICATIONS)

AIR CONDITIONING AS SPECIFIED

BRM BROOM CLOSET

BS BASIN

CONC-1 CONCRETE WAFFLE POD SLAB TO ENGRS SPECIFICATION

DW DISHWASHER AS SPECIFIED

EXTERNAL TILE AS SPECIFIED HWS HOT WATER SYSTEM

PTY KITCHEN PANTRY

REFRIGERATOR OPENING AS SPECIFIED SINK AS SPECIFIED

TAP TAP AS SPECIFIED WATER CLOSET AS SPECIFIED WC

WM WASHING MACHINE

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LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

LVL 01 FLOOR PLAN - UNIT 3

Checked GR Checked by Owner Signed by Builder

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Design Drawing No.

As indicated @ A3 Α CUSTOM 24005

25.10.23

LVL 01 FLOOR PLAN - UNIT 3

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COMMUNITY TITLE SUBDIVISION

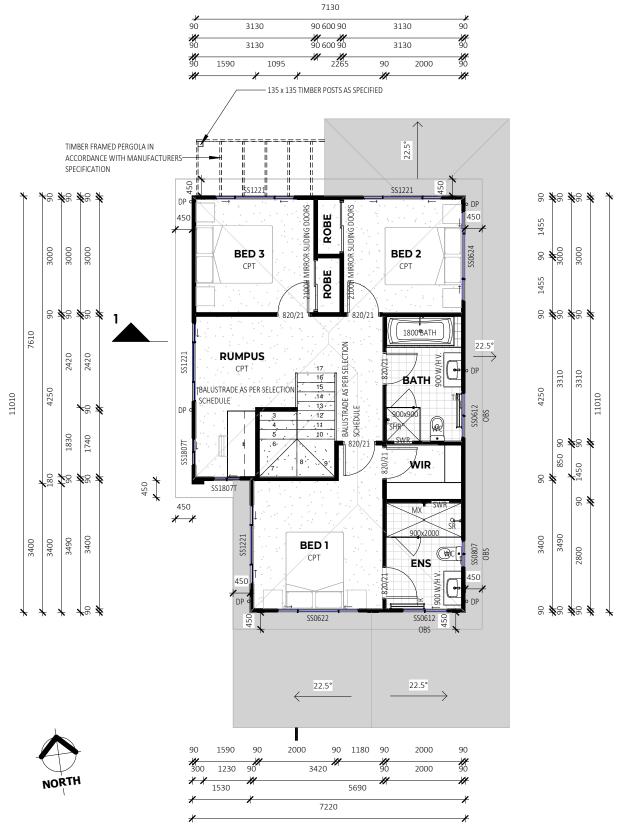
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FLOOR AREAS UNIT 3

PORCH 2.30 m² **GARAGE** 40.00 m² LIVING 63.76 m² **UPSTAIRS LIVING** 74.15 m² PATIO 6.28 m² **TOTAL** 186.48 m² DOOR LEAF LEGEND: XXX/21=2040H LEAF XXX/24=2340H LEAF

SHELVING NOTES:

MELAMINE SHELF AND HANGING RAIL TO ROBES BANK OF DRAWS & SHELVES TO ROBES 4x MELAMINE SHELVES TO LINEN CUPBOARD



LEGEND - KEYNOTES (REFER SPECIFICATIONS)

DOWNPIPE AS SPECIFIED MIXER AS SPECIFIED SHR SHOWER AS SPECIFIED SHOWER ROSE AS SPECIFIED SHOWER WALL RECESS AS SPECIFIED TR TOWEL RAIL AS SPECIFIED WATER CLOSET AS SPECIFIED

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LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

LVL 02 FLOOR PLAN - UNIT 3

Checked GR Checked by Owner Signed by Builder

Scale As indicated

CUSTOM Drawing No.

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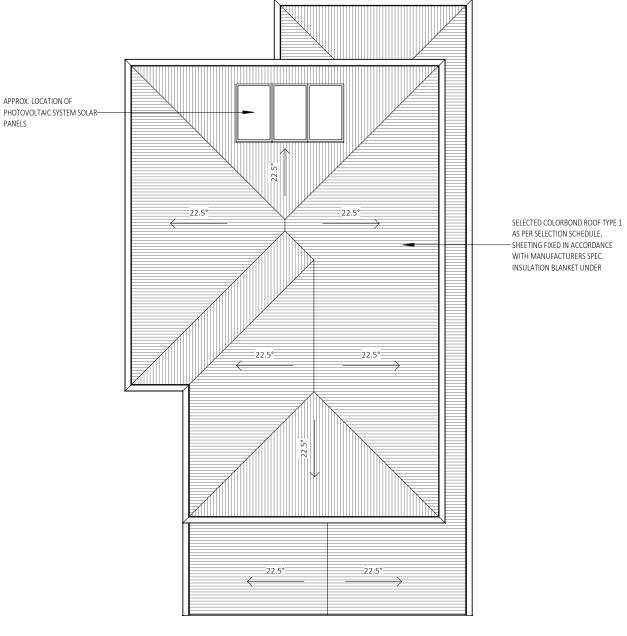
LVL 02 FLOOR PLAN - UNIT 3

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COMMUNITY TITLE SUBDIVISION

REFER TO TENDER

LEGEND - KEYNOTES (REFER SPECIFICATION...





ROOF PLAN - UNIT 3 1:100

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Sheet Title

ROOF PLAN - UNIT 3

25.10.23 Drawn by Checked

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Design CUSTOM Drawing No.

- (D) LED DOWNLIGHT RECESSED
- (D)² LED DOWNLIGHT DIRECTIONAL
- D LED DOWNLIGHT FIXED
- (P)¹ PEDANT LIGHT TYPE 1
- PEDANT LIGHT TYPE 2
- (P) PEDANT LIGHT TYPE 3
- (M) EXTERNAL WALL LIGHT
- S SENSOR LIGHT
- ♦ HEATER FAN LIGHT
- EXHAUST FAN LIGHT
- EXTERNALLY DUCTED EXHAUST FAN
- ├── FLUORESCENT LIGHT SINGLE

LED BATTEN LIGHT



CEILING FAN



CEILING FAN WITH LIGHT



LOCATION OF SMOKE ALARM IN ACCORDANCE WITH AS3786.



GAS POINT

- GPO SINGLE
- GPO DOUBLE
- GPO SINGLE WATERPROOF
- GPO DOUBLE WATERPROOF
- △ GPO SINGLE ELEVATED 1000
- ♠¹000 GPO DOUBLE ELEVATED 1000

NBN CONNECTION BOX

ELECTRICAL METER & FUSE BOX

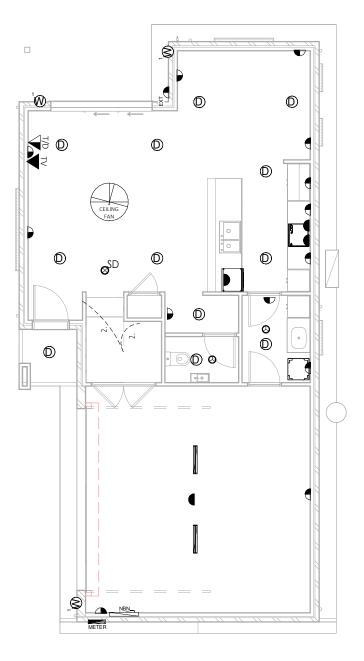




- ∀ HARD WIRED DOOR BELL
- × LIGHT SWITCH SINGLE
- ✓³ LIGHT SWITCH MULTIPLE
- × LIGHT SWITCH EXTERNAL
- ____ 2 WAY SWITCHING
- $\sqrt{\frac{1}{3}}$ \sim 3 WAY SWITCHING

ELECTRICAL FIXTURE SCHEDULE			
Туре	Count		
GPO SINGLE	2		
GPO SINGLE	1		
/H_EXHAUST FAN	2		
LECTRICAL METER & FUSE BOX	1		
GPO DOUBLE	13		
GPO DOUBLE WP	1		
GPO SINGLE	1		
IBN CONNECTION BOX	1		
MOKE ALARM	1		
ELEPHONE / DATA POINT	1		
V POINT	1		
Grand total: 25	25		

LIGHTING FIXTURE SCHEDULE	
Туре	Count
ED BATTEN LIGHT	2
WALL LIGHT	2
CEILING FAN	1
ED DOWNLIGHT	12
WALL LIGHT	1
Grand total: 18	18



LVL 01 ELECTRICAL PLAN - UNIT 3

1:100

LEGEND - KEYNOTES (REFER SPECIFICATIONS)

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AT: LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

LVL 01 ELECTRICAL PLAN - UNIT 3

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Drawing No.

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COMMUNITY TITLE SUBDIVISION

	LED DOWNLIGHT RECESSED	
(D)		

- 2	
	LED DOMANI ICHT DIDECTIONAL
$(\widehat{D})^2$	LED DOWNLIGHT DIRECTIONAL

- D LED DOWNLIGHT FIXED
- (P) PEDANT LIGHT TYPE 1
- P² PEDANT LIGHT TYPE 2
- PEDANT LIGHT TYPE 3
- (M) EXTERNAL WALL LIGHT
- S SENSOR LIGHT
- ★ HEATER FAN LIGHT
- EXTERNALLY DUCTED EXHAUST FAN
- ⊢ FLUORESCENT LIGHT SINGLE

LED BATTEN LIGHT



CEILING FAN



CEILING FAN WITH LIGHT



LOCATION OF SMOKE ALARM IN ACCORDANCE WITH AS3786.



GAS POINT

- GPO SINGLE
- GPO DOUBLE
- ■EXT GPO SINGLE WATERPROOF
- GPO DOUBLE WATERPROOF
- △ GPO SINGLE ELEVATED 1000
- ♠¹000 GPO DOUBLE ELEVATED 1000



ELECTRICAL METER & FUSE BOX

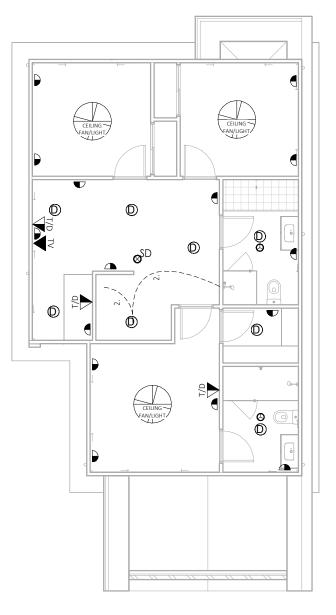




- √ HARD WIRED DOOR BELL
- × LIGHT SWITCH SINGLE
- ✓ LIGHT SWITCH MULTIPLE
- × LIGHT SWITCH EXTERNAL
- ____ 2 WAY SWITCHING
- $\sqrt{\frac{1}{3}}$ 3 WAY SWITCHING

ELECTRICAL FIXTURE SCHED	ULE
Туре	Count
ELEPHONE / DATA POINT	2
/H_EXHAUST FAN	2
GPO DOUBLE	15
MOKE ALARM	1
ELEPHONE / DATA POINT	1
V POINT	1
Grand total: 22	22

LIGHTING FIXTURE SCHEDULE		
Туре	Count	
CEILING FAN LIGHT	3	
LED DOWNLIGHT	8	
Grand total: 11	11	



LVL 02 ELECTRICAL PLAN - UNIT 3

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LEGEND - KEYNOTES (REFER SPECIFICATIONS)

2.



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GRUGEON

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Sheet Title

LVL 02 ELECTRICAL PLAN - UNIT 3

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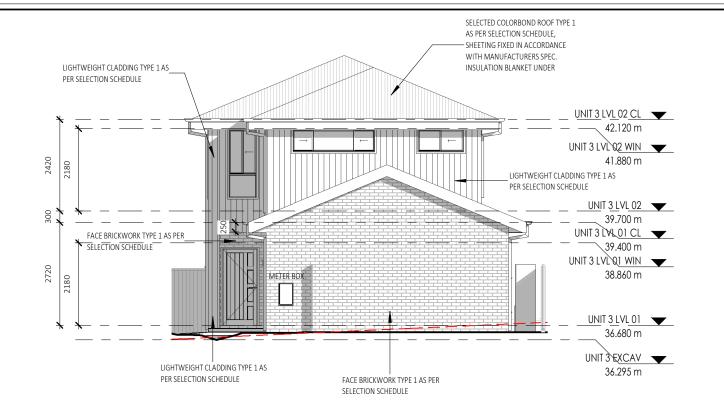
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OM Rev A 24005 C22 1 2

COMMUNITY TITLE SUBDIVISION

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SOUTH ELEVATION - UNIT 3 1:100

SELECTED COLORBOND ROOF TYPE 1 APPROX. LOCATION OF AS PER SELECTION SCHEDULE, PHOTOVOLTAIC SYSTEM SOLAR-SHEETING FIXED IN ACCORDANCE PANELS WITH MANUFACTURERS SPEC. INSULATION BLANKET UNDER UNIT 3 LVL 02 CL 42.120 m SELECTED COLORBOND ROOF TYPE 1 UNIT 3 LVL 02 WIN AS PER SELECTION SCHEDULE. 41.880 m SHEETING FIXED IN ACCORDANCE WITH MANUFACTURERS SPEC. LIGHTWEIGHT CLADDING TYPE 1 AS INSULATION BLANKET UNDER PER SELECTION SCHEDULE UNIT 3 LVL 02 39.700 m UNIT 3 [VL 01 CL 🔻 √39.400 m UNIT 3 LVL Q1 WIN 38.860 m UNIT 3 LVL 01 36.680 m UNIT 3 EXCAV FACE BRICKWORK TYPE 1 AS PER 135 x 135 TIMBER POSTS AS SPECIFIED 36.295 m SELECTION SCHEDULE TIMBER FRAMED PERGOLA IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION

LEGEND - KEYNOTES (REFER SPECIFICATIONS)

NORTH ELEVATION - UNIT 3 1:100

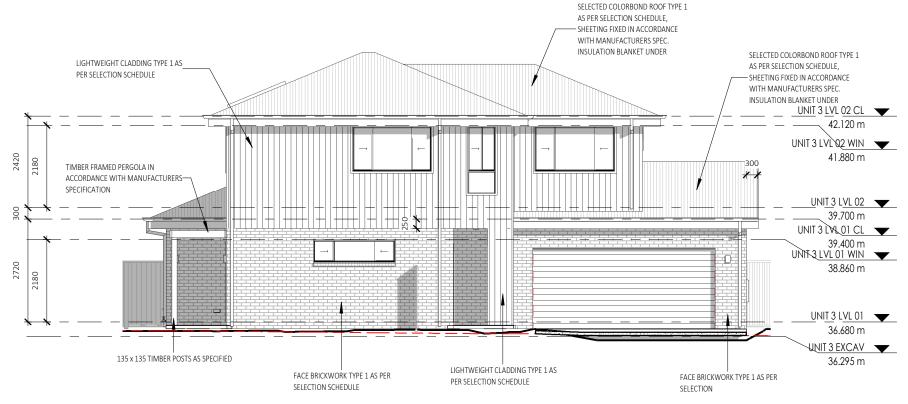
REFER TO TENDER

Drawing No.

COMMUNITY TITLE SUBDIVISION

MAMBARE PTY LTD T/A VALLEY HOMES A.C.N. 000 939 980 www.valleyhomes.com.au 457 HIGH STREET, MAITLAND. 2320 PHONE:(02)49341400 BUILDERS LIC. No. 5117 INTELLECTUAL PROPERTY CLAUSE: THIS AND ALL ASSOCIATED MATERIAL PROVIDED BY MAMBARE PTY LTD ("US") TO YOU IS OUR PROPERT AND IS PROTECTED BY COPYRIGHT, TRADE MARK AND OTHER INTELLECTUAL PROPERTY LAWS UNLESS EXPRESSLY INDICATED OTHERWISE ("THE MATERIAL") THE MATERIAL REMAINS OUR EXCLUSIVE PROPERTY YOU MUST NOT USE THE MATERIAL IN ANY WAY OR FOF ANY PURPOSE WHICH IS UNLAWFUL OR WHICH INFRINGES OUR OWNERSHIP OF THE MATERIAL. YOU MUST NOT UNDER ANY CIRCUMSTANCES (EITHER YOURSELF OR WITH A THIRD PARTY) USE, DISTRIBUTE EMPLOY OR EXPLOIT THE MATERIAL OTHER THAN AS EXPRESSLY PERMITTED BY US IN WRITING. SSUED FOR DA APPLICATIO **GRUGEON** LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321 Sheet Title **ELEVATIONS - UNIT 3** 25.10.23 Checked GR Checked by Owner Signed by Builder Scale 1:100 CUSTOM

LEGEND - KEYNOTES (REFER SPECIFICATIONS)



WEST ELEVATION - UNIT 3

1:100

SELECTED COLORBOND ROOF TYPE 1 AS PER SELECTION SCHEDULE, SHEETING FIXED IN ACCORDANCE WITH MANUFACTURERS SPEC. SELECTED COLORBOND ROOF TYPE 1 INSULATION BLANKET UNDER AS PER SELECTION SCHEDULE, SHEETING FIXED IN ACCORDANCE WITH MANUFACTURERS SPEC. INSULATION BLANKET UNDER UNIT 3 LVL 02 CL 42.120 m UNIT 3 LVL 02 WIN * * 41.880 m LIGHTWEIGHT CLADDING TYPE 1 AS PER SELECTION SCHEDULE UNIT 3 LVL 02 39.700 m UNIT 3 LVL 01 CL √39.400 m UNIT 3 LVL Q1 WIN 🔻 38.860 m UNIT 3 LVL 01 36.680 m UNIT 3 EXCAV ELECTRIC HEAT PUMP HWS LOCATION OF AIR CON. UNIT 36.295 m FACE BRICKWORK TYPE 1 AS PER SELECTION SCHEDULE

EAST ELEVATION - UNIT 3

1:100

REFER TO TENDER

COMMUNITY TITLE SUBDIVISION



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No.	Date	Description	Drn
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GRUGEON

AT: LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

ELEVATIONS - UNIT 3

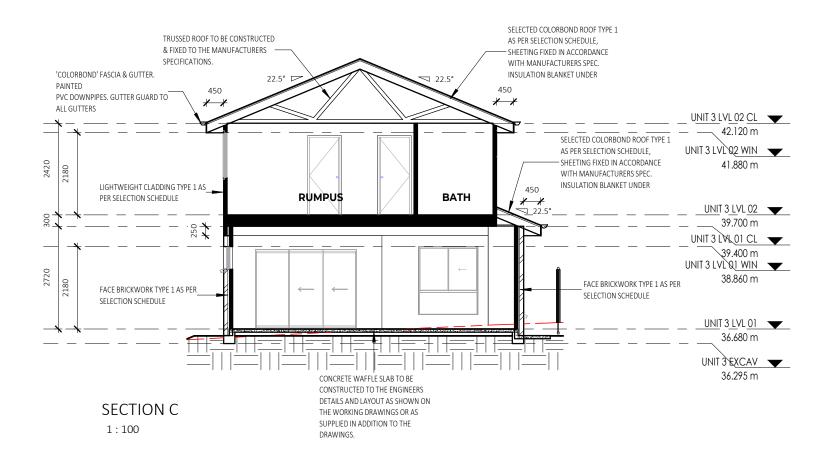
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Drawn by	GR	Checked
Checked by Owner	Date	Signed by Builder

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Design CUSTOM

Rev A

05 C30.0.2



ALL BRICKWORK TO BE FULLY ARTICULATED IN ACCORDANCE WITH AS 3700 MASONRY STRUCTURES OR AS4773 MASONRY FOR SMALL BUILDINGS, PARTS 1 AND 2.

ARTICULATION JOINTS MUST HAVE A WIDTH NOT LESS THAN 10mm AND BE PROVIDED IN FOLLOWING LOCATIONS:

- FOR STRAIGHT, CONTINUOUS WALLS HAVING NO OPENINGS, THE MAXIMUM SPACING OF 10mm ARTICULATION JOINTS UP TO 4m HIGH: EXTERNAL FACE FINISHED MASONRY 5.0m CTS; EXTERNAL RENDERED AND/OR PAINTED MASONRY 4.5m OR
- FOR STRAIGHT, CONTINUOUS WALLS HAVING NO OPENINGS, THE MAXIMUM SPACING OF 10mm ARTICULATION JOINTS FROM 4m-8.5m H: EXTERNAL FACE FINISHED MASONRY 3.5m CTS; EXTERNAL RENDERED AND/OR PAINTED MASONRY 3.2m
- * MAXIMUM SPACING OF ARTICULATION JOINTS IN WALLS WHERE WINDOW OR DOOR OPENINGS MORE THAN 900 x 900mm OCCUR, TO BE NO MORE THAN 5.0m CTRS, AND POSITIONED IN LINE WITH ONE EDGE OF THE OPENING; AND
- * WHERE THE HEIGHT OF THE WALL CHANGES BY MORE THAN 20%. AT THE POSITION OF CHANGE IN HEIGHT; AND
- * WHERE WALLS CHANGE IN THICKNESS; AND
- * AT CONTROL OR CONSTRUCTION JOINTS IN FOOTING SLABS; AND * AT JUNCTIONS OF WALLS CONSTRUCTED OF DIFFERENT MASONRY MATERIALS: AND
- * AT DEEP CHASES (REBATES) FOR SERVICE PIPES.
- * AT A DISTANCE FROM ALL CORNERS NOT GREATER THAN 4500mm AND NOT LESS THAN 470mm FOR CAVITY WALLS OR 230mm FOR VENEER WALLS.

INSULATION NOTES:

R3.5 INSULATION TO CEILINGS (EXCLUDES GARAGES, PORCHES, BALCONIES AND ALFRESCOS).

R2.0 INSULATION TO EXTERNAL WALLS (EXCLUDES GARAGE WALLS)

R2.0 INSULATION TO INTERNAL GARAGE WALLS

UNDER SLAB INSULATION:

REFER TO GEOTECH S/M/H CLASS.

S&M CLASS - 310MM SLAB THICKNESS / 225MM THICK STYROFOAM PODS UNDER SLAB

H CLASS - 385MM SLAB THICKNESS / 300MM THICK STYROFOAM PODS UNDER SLAB

REFER TO TENDER

LEGEND - KEYNOTES (REFER SPECIFICATION...

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Α	21.03.24	ISSUED FOR DA APPLICATION	GF

GRUGEON

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

SECTION - UNIT 3

25.10.23 Checked GR

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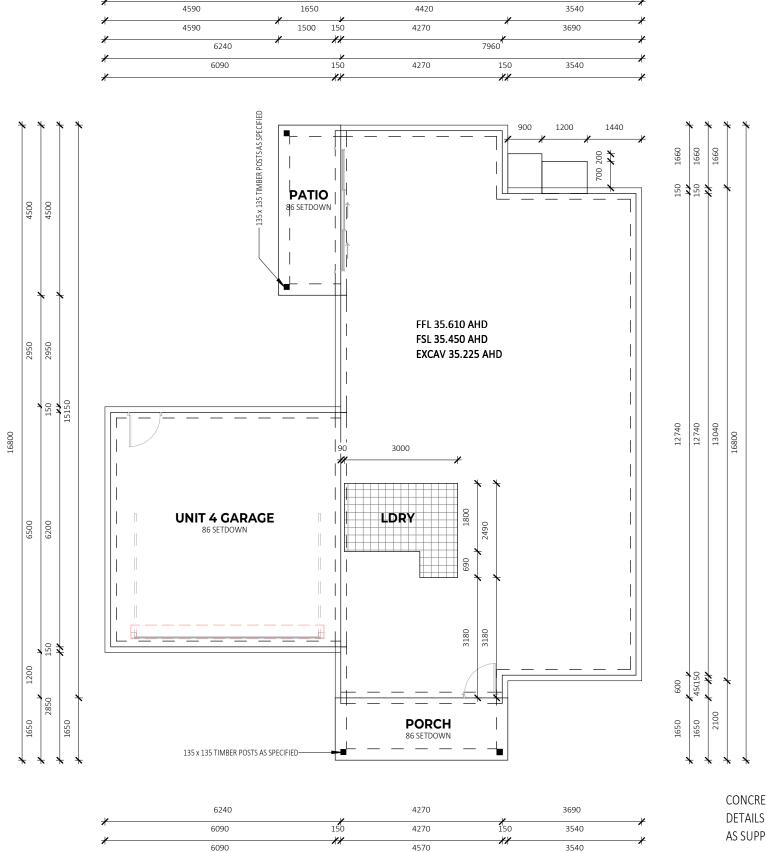
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CUSTOM

Drawing No.



@A3



14200

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CONCRETE WAFFLE SLAB TO BE CONSTRUCTED TO THE ENGINEERS DETAILS AND LAYOUT AS SHOWN ON THE WORKING DRAWINGS OR AS SUPPLIED IN ADDITION TO THE DRAWINGS.

45mm SET DOWN IN SLAB FOR WET AREA TILING SHOWN HATCHED.

REFER TO TENDER

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No.	Date	Description	Drn
Α	21.03.24	ISSUED FOR DA APPLICATION	GR

FOR:

GRUGEON

AT: LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

SLAB PLAN - UNIT 4

 Date

 25.10.23

 Drawn by
 GR
 Checked

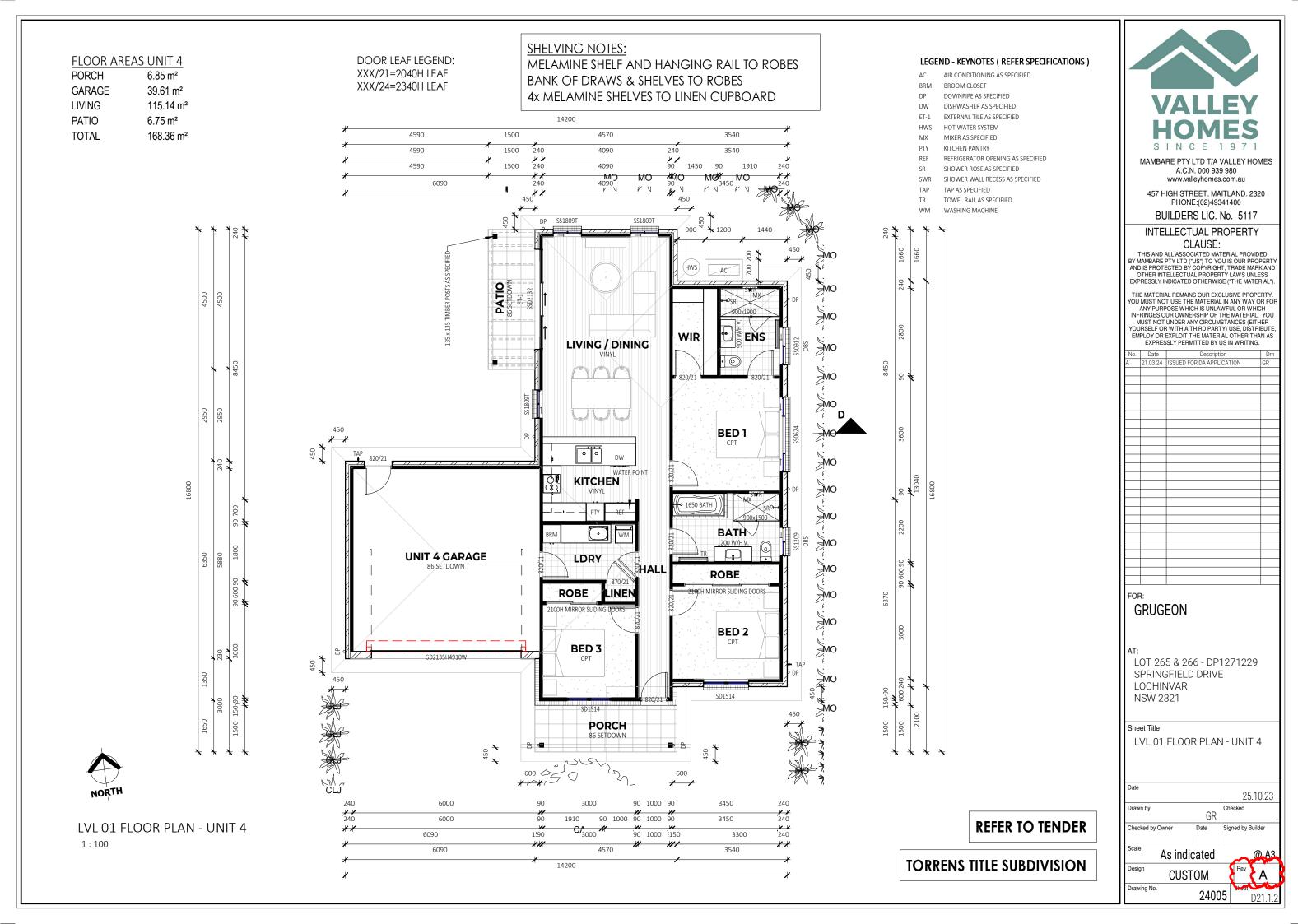
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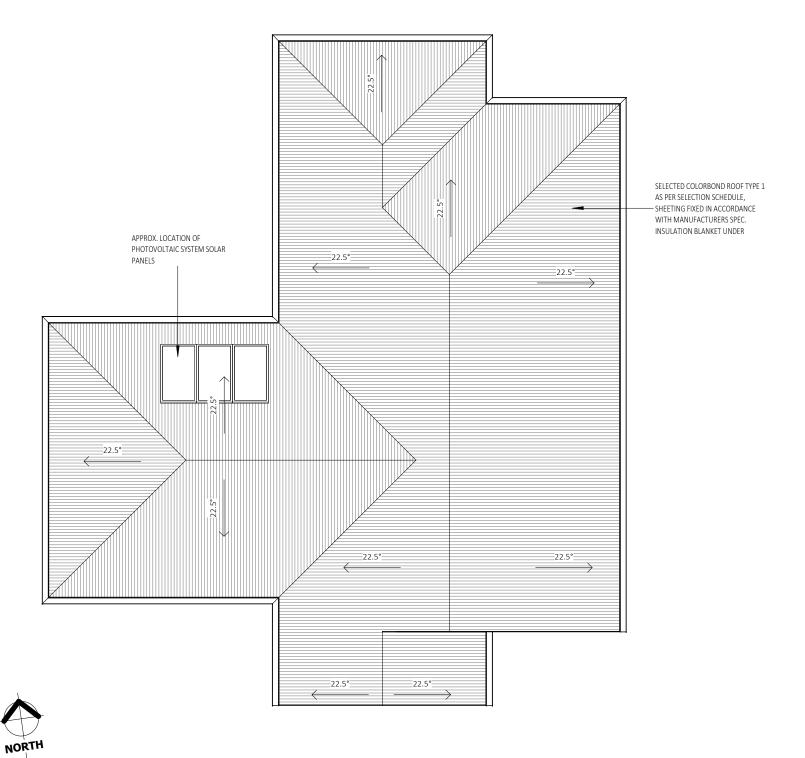
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Drawing No.

DM Rev A
24005 D21.0.1

SLAB PLAN - UNIT 4 1:100



LEGEND - KEYNOTES (REFER SPECIFICATION...



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GRUGEON

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

ROOF PLAN - UNIT 4

25.10.23 Drawn by Checked

GR Checked by Owner Signed by Builder

Scale 1:100

Design CUSTOM Drawing No.

REFER TO TENDER

TORRENS TITLE SUBDIVISION

ROOF PLAN - UNIT 4

1:100

- (D) LED DOWNLIGHT RECESSED
- D LED DOWNLIGHT DIRECTIONAL
- D° LED DOWNLIGHT FIXED
- (P)¹ PEDANT LIGHT TYPE 1
- PEDANT LIGHT TYPE 2
- P PEDANT LIGHT TYPE 3
- (M) EXTERNAL WALL LIGHT
- S SENSOR LIGHT
- ♦ HEATER FAN LIGHT
- EXTERNALLY DUCTED EXHAUST FAN
- FLUORESCENT LIGHT SINGLE

LED BATTEN LIGHT



CEILING FAN



CEILING FAN WITH LIGHT



LOCATION OF SMOKE ALARM IN ACCORDANCE WITH AS3786.



GAS POINT

- GPO SINGLE
- GPO DOUBLE
- GPO SINGLE WATERPROOF
- GPO DOUBLE WATERPROOF
- △ GPO SINGLE ELEVATED 1000
- △ GPO DOUBLE ELEVATED 1000

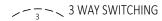
NBN CONNECTION BOX

ELECTRICAL METER & FUSE BOX





- abla Hard wired door bell
- × LIGHT SWITCH SINGLE
- ★
 LIGHT SWITCH MULTIPLE
- × LIGHT SWITCH EXTERNAL
- 2 WAY SWITCHING

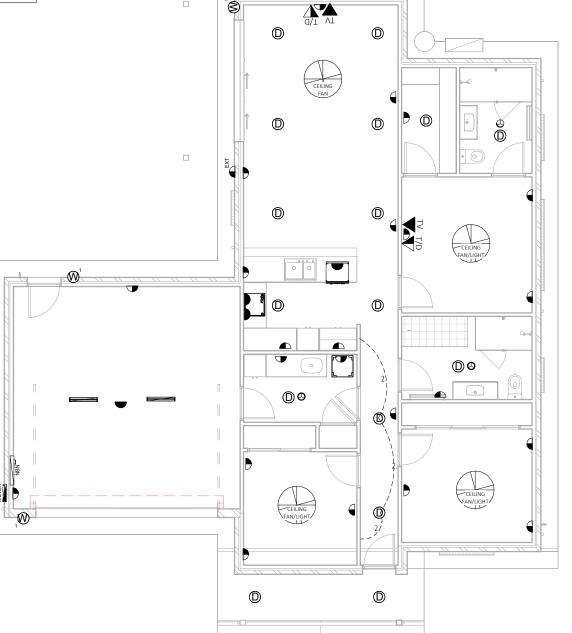


ELECTRICAL FIXTURE SCHEDULE		
Туре	Count	
GPO DOUBLE	18	
GPO SINGLE	2	
GPO SINGLE	1	
VH_EXHAUST FAN	3	
ELECTRICAL METER & FUSE BOX	1	
GPO DOUBLE	5	
GPO DOUBLE WP	1	
GPO SINGLE	1	
NBN CONNECTION BOX	1	
TELEPHONE / DATA POINT	2	
TV POINT	2	
Grand total: 37	37	

LVL 01 ELECTRICAL PLAN - UNIT 4

1:100

LIGHTING FIXTURE SCHEDULE		
Туре	Count	
CEILING FAN LIGHT	3	
LED BATTEN LIGHT	2	
LED DOWNLIGHT	13	
WALL LIGHT	3	
CEILING FAN	1	
LED DOWNLIGHT	3	
Grand total: 25	25	



LEGEND - KEYNOTES (REFER SPECIFICATIONS)

2.

REFER TO TENDER

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HOMES SINCE 1971
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No.	Date	Description	Drn
Α	21.03.24	ISSUED FOR DA APPLICATION	GR

GRUGEON

Sheet Title

AT: LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

LVL 01 ELECTRICAL PLAN - UNIT 4

 Date
 25.10.23

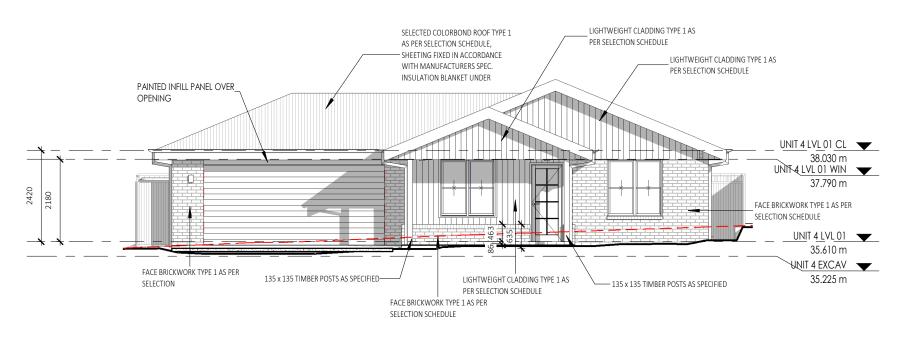
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 Checked by Owner
 Date
 Signed by Builder

Scale 1:100

Design CUSTOM
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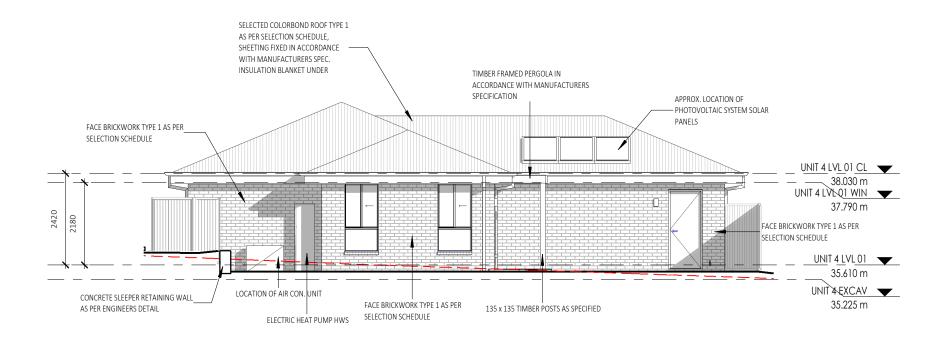
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SOUTH ELEVATION - UNIT 4

1:100

LEGEND - KEYNOTES (REFER SPECIFICATIONS)



NORTH ELEVATION - UNIT 4

1:100

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GRUGEON

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

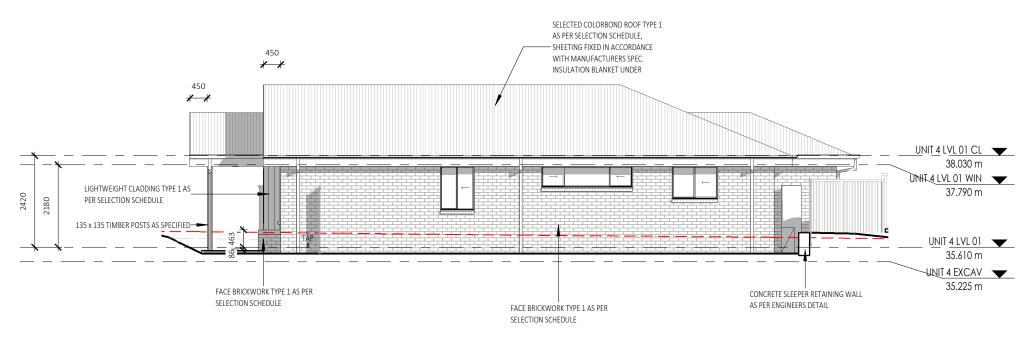
ELEVATIONS - UNIT 4

25.10.23 Checked GR

Checked by Owner Signed by Builder

Scale 1:100

> CUSTOM Drawing No.

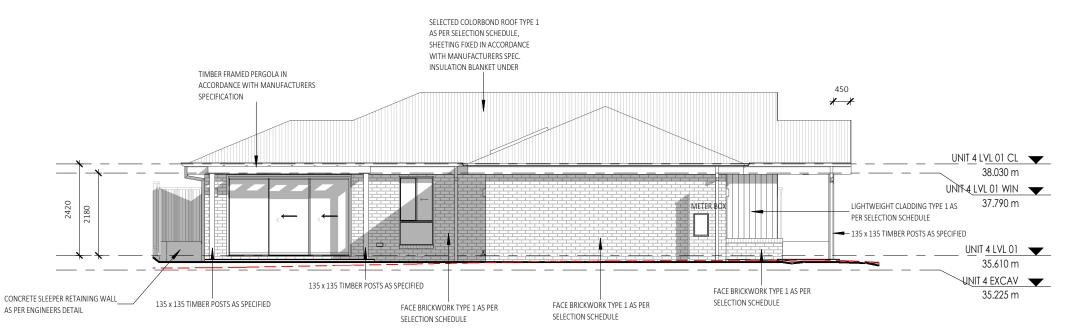


EAST ELEVATION - UNIT 4

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LEGEND - KEYNOTES (REFER SPECIFICATIONS)

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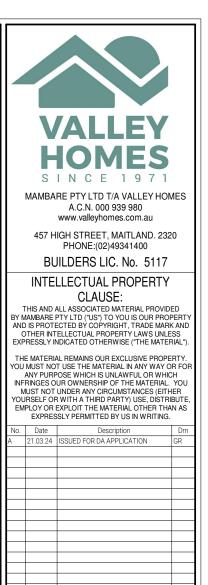


WEST ELEVATION - UNIT 4

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REFER TO TENDER

TORRENS TITLE SUBDIVISION



GRUGEON

LOCHINVAR

NSW 2321

Sheet Title

Checked by Owner

Scale

Drawing No.

LOT 265 & 266 - DP1271229

SPRINGFIELD DRIVE

ELEVATIONS - UNIT 4

1:100

CUSTOM

25.10.23

Checked

Signed by Builder

GR

SELECTED COLORBOND ROOF TYPE 1 AS PER SELECTION SCHEDULE SHEFTING FIXED IN ACCORDANCE TRUSSED ROOF TO BE CONSTRUCTED WITH MANUFACTURERS SPEC - & FIXED TO THE MANUFACTURERS INSULATION BLANKET LINDER SPECIFICATIONS. TIMBER FRAMED PERGOLA IN ACCORDANCE WITH MANUFACTURERS-450 SPECIFICATION 450 UNIT 4 LVL 01 CL 38.030 m UNIT 4 LVL Q1 WIN 37.790 m LIVING / DINING BED 1 FACE BRICKWORK TYPE 1 AS PER SELECTION SCHEDULE UNIT 4 LVL 01 35.610 m UNIT 4 EXCAV FACE BRICKWORK TYPE 1 AS PER SELECTION SCHEDULE 35.225 m CONCRETE WAFFLE SLAB TO BE 135 x 135 TIMBER POSTS AS SPECIFIED CONCRETE SLEEPER RETAINING WALL CONSTRUCTED TO THE ENGINEERS AS PER ENGINEERS DETAIL DETAILS AND LAYOUT AS SHOWN ON THE WORKING DRAWINGS OR AS

SUPPLIED IN ADDITION TO THE

DRAWINGS.

LEGEND - KEYNOTES (REFER SPECIFICATION...

ALL BRICKWORK TO BE FULLY ARTICULATED IN ACCORDANCE WITH AS 3700 MASONRY STRUCTURES OR AS4773 MASONRY FOR SMALL

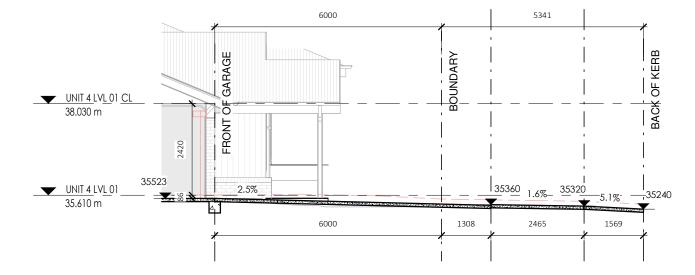
SECTION D

1:100

BUILDINGS, PARTS 1 AND 2.

ARTICULATION JOINTS MUST HAVE A WIDTH NOT LESS THAN 10mm AND BE PROVIDED IN FOLLOWING LOCATIONS:

- * FOR STRAIGHT, CONTINUOUS WALLS HAVING NO OPENINGS, THE MAXIMUM SPACING OF 10mm ARTICULATION JOINTS UP TO 4m HIGH: EXTERNAL FACE FINISHED MASONRY 5.0m CTS; EXTERNAL RENDERED AND/OR PAINTED MASONRY 4.5m OR
- * FOR STRAIGHT, CONTINUOUS WALLS HAVING NO OPENINGS, THE MAXIMUM SPACING OF 10mm ARTICULATION JOINTS FROM 4m-8.5m H: EXTERNAL FACE FINISHED MASONRY 3.5m CTS; EXTERNAL RENDERED AND/OR PAINTED MASONRY 3.2m
- * MAXIMUM SPACING OF ARTICULATION JOINTS IN WALLS WHERE WINDOW OR DOOR OPENINGS MORE THAN 900 x 900mm OCCUR, TO BE NO MORE THAN 5.0m CTRS, AND POSITIONED IN LINE WITH ONE EDGE OF THE OPENING; AND
- * WHERE THE HEIGHT OF THE WALL CHANGES BY MORE THAN 20%, AT THE POSITION OF CHANGE IN HEIGHT; AND
- * WHERE WALLS CHANGE IN THICKNESS; AND
- * AT CONTROL OR CONSTRUCTION JOINTS IN FOOTING SLABS; AND * AT JUNCTIONS OF WALLS CONSTRUCTED OF DIFFERENT MASONRY
- |* AT JUNCTIONS OF WALLS CONSTRUCTED OF DIFFERENT MASONR | MATERIALS; AND
- * AT DEEP CHASES (REBATES) FOR SERVICE PIPES.
- * AT A DISTANCE FROM ALL CORNERS NOT GREATER THAN 4500mm AND NOT LESS THAN 470mm FOR CAVITY WALLS OR 230mm FOR VENEER WALLS.



DRIVEWAY PROFILE D1

NOTE : DIMENSIONS AND RL'S TO BE CONFIRMED ON SITE MAX. ALLOWABLE GRADIENT 25.0%

INSULATION NOTES:

1:100

R3.5 INSULATION TO CEILINGS (EXCLUDES GARAGES, PORCHES, BALCONIES AND ALFRESCOS).

R2.0 INSULATION TO EXTERNAL WALLS (EXCLUDES GARAGE WALLS)

R2.0 INSULATION TO INTERNAL GARAGE WALLS

UNDER SLAB INSULATION:

REFER TO GEOTECH S/M/H CLASS.

S&M CLASS - 310MM SLAB THICKNESS / 225MM THICK STYROFOAM PODS UNDER SLAB

H CLASS - 385MM SLAB THICKNESS / 300MM THICK STYROFOAM PODS UNDER SLAB

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A 21.03.24 ISSUED FOR DA APPLICATION GR	No.	Date	Description	Drn
	Α	21.03.24	ISSUED FOR DA APPLICATION	GR
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GRUGEON

AT: LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

SECTION - UNIT 4

As indicated

Checked by Owne

Drawing No.

Design CLISTOM

24005

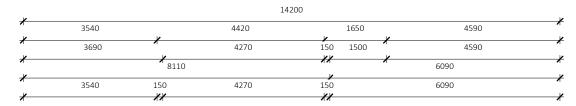
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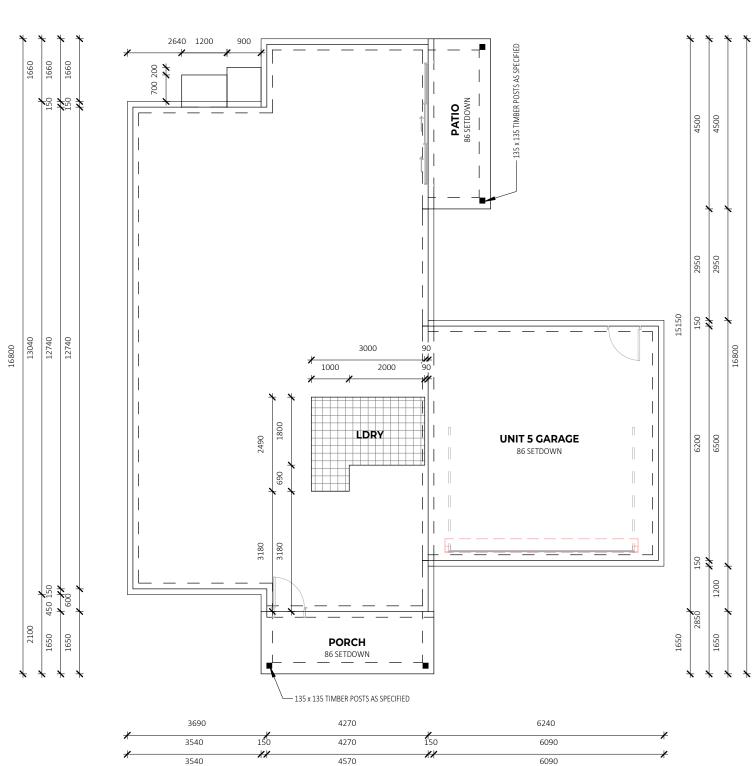
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@ A3

CONCRETE WAFFLE SLAB TO BE CONSTRUCTED TO THE ENGINEERS DETAILS AND LAYOUT AS SHOWN ON THE WORKING DRAWINGS OR AS SUPPLIED IN ADDITION TO THE DRAWINGS.

45mm SET DOWN IN SLAB FOR WET AREA TILING SHOWN HATCHED.





14200

SLAB PLAN - UNIT 5

1:100

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LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

SLAB PLAN - UNIT 5

25.10.23 Checked GR

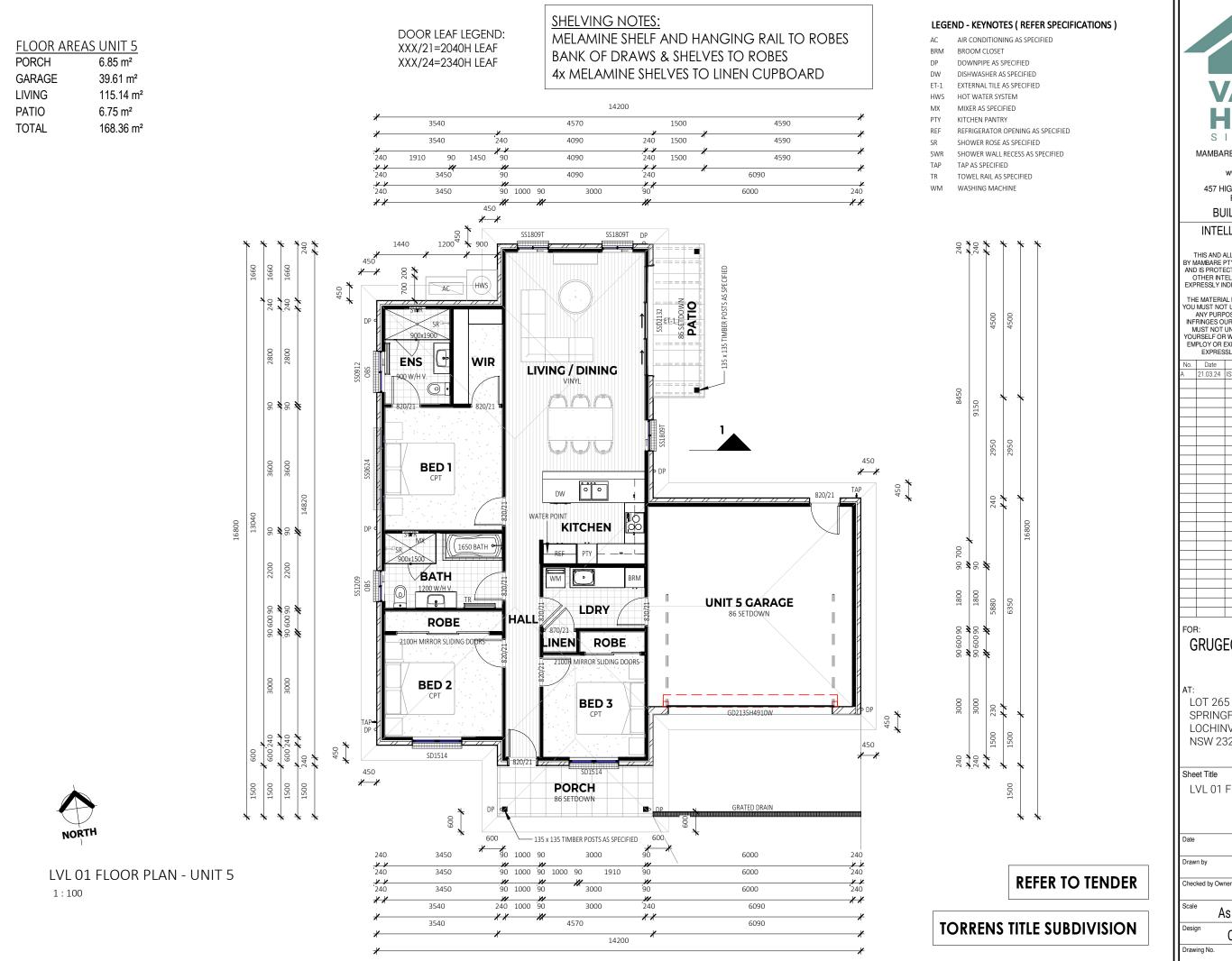
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Design CUSTOM Drawing No.



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GRUGEON

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

LVL 01 FLOOR PLAN - UNIT 5

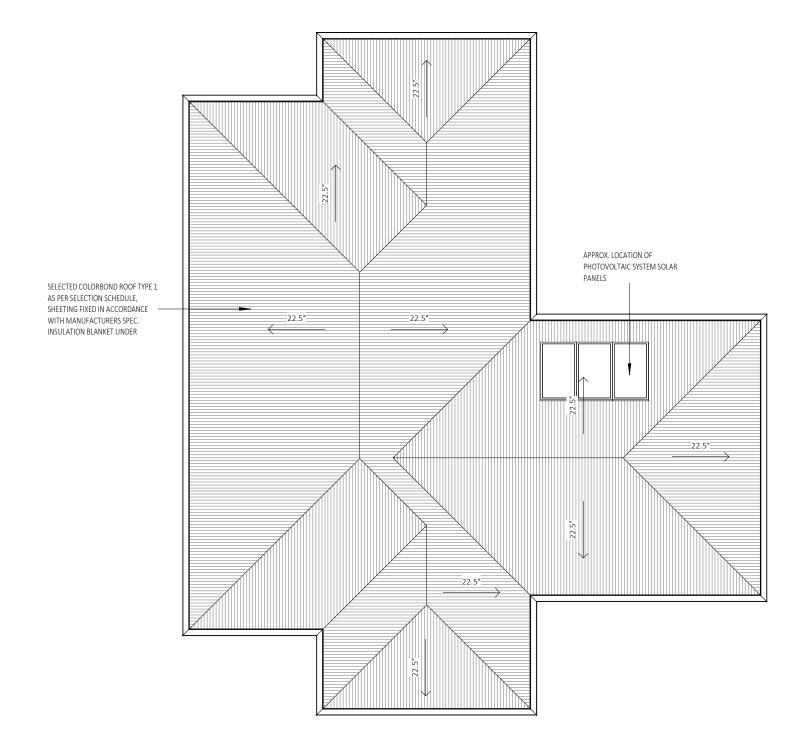
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Scale As indicated

CUSTOM Drawing No.



LEGEND - KEYNOTES (REFER SPECIFICATION...





ROOF PLAN - UNIT 5

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REFER TO TENDER

TORRENS TITLE SUBDIVISION



MAMBARE PTY LTD T/A VALLEY HOMES A.C.N. 000 939 980 www.valleyhomes.com.au

457 HIGH STREET, MAITLAND. 2320 PHONE:(02)49341400

BUILDERS LIC. No. 5117

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GRUGEON

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR

Sheet Title

NSW 2321

ROOF PLAN - UNIT 5

25.10.23 Drawn by Checked GR

Checked by Owner Signed by Builder

Scale 1:100

Design CUSTOM Drawing No.

LEGEND: AS SPECIFIED

- LED DOWNLIGHT RECESSED
- LED DOWNLIGHT DIRECTIONAL
- LED DOWNLIGHT FIXED
- PEDANT LIGHT TYPE 1
- PEDANT LIGHT TYPE 2
- PEDANT LIGHT TYPE 3
- EXTERNAL WALL LIGHT
- SENSOR LIGHT
- HEATER FAN LIGHT
- EXHAUST FAN LIGHT
- EXTERNALLY DUCTED EXHAUST FAN
- FLUORESCENT LIGHT SINGLE

LED BATTEN LIGHT



CEILING FAN



CEILING FAN WITH LIGHT



LOCATION OF SMOKE ALARM IN ACCORDANCE WITH AS3786.



- **GAS POINT**
- GPO DOUBLE
- GPO SINGLE WATERPROOF

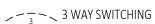
GPO SINGLE

- GPO DOUBLE WATERPROOF
- GPO SINGLE ELEVATED 1000
- GPO DOUBLE ELEVATED 1000
- NBN CONNECTION BOX
- **ELECTRICAL METER & FUSE BOX**
- TV POINT

TELEPHONE / DATA POINT

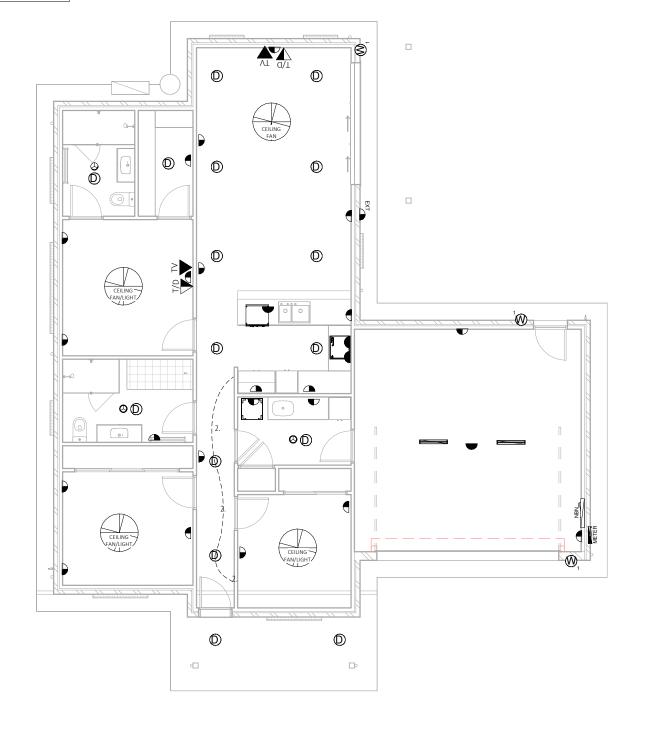
- HARD WIRED DOOR BELL
- LIGHT SWITCH SINGLE
- LIGHT SWITCH MULTIPLE
- LIGHT SWITCH EXTERNAL

2 WAY SWITCHING



ELECTRICAL FIXTURE SCHEDULE				
Туре	Count			
PO DOUBLE	17			
PO SINGLE	2			
PO SINGLE	1			
H_EXHAUST FAN	3			
LECTRICAL METER & FUSE BOX	1			
PO DOUBLE	5			
PO DOUBLE WP	1			
PO SINGLE	1			
IBN CONNECTION BOX	1			
ELEPHONE / DATA POINT	2			
V POINT	2			
irand total: 36	36			

LIGHTING FIXTURE SCHEDULE		
Type	Count	
CEILING FAN LIGHT	3	
LED BATTEN LIGHT	2	
LED DOWNLIGHT	13	
WALL LIGHT	3	
CEILING FAN	1	
LED DOWNLIGHT	3	
Grand total: 25	25	



LVL 01 ELECTRICAL PLAN - UNIT 5

1:100

REFER TO TENDER

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LEGEND - KEYNOTES (REFER SPECIFICATIONS)

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GRUGEON

LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

LVL 01 ELECTRICAL PLAN - UNIT

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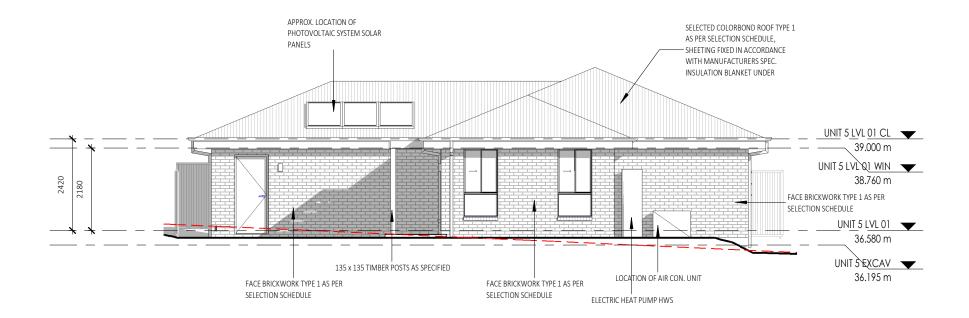
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SOUTH ELEVATION - UNIT 5

1:100

LEGEND - KEYNOTES (REFER SPECIFICATIONS)



NORTH ELEVATION - UNIT 5

1:100

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GRUGEON

AT: LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

ELEVATIONS - UNIT 5

 25.10.23

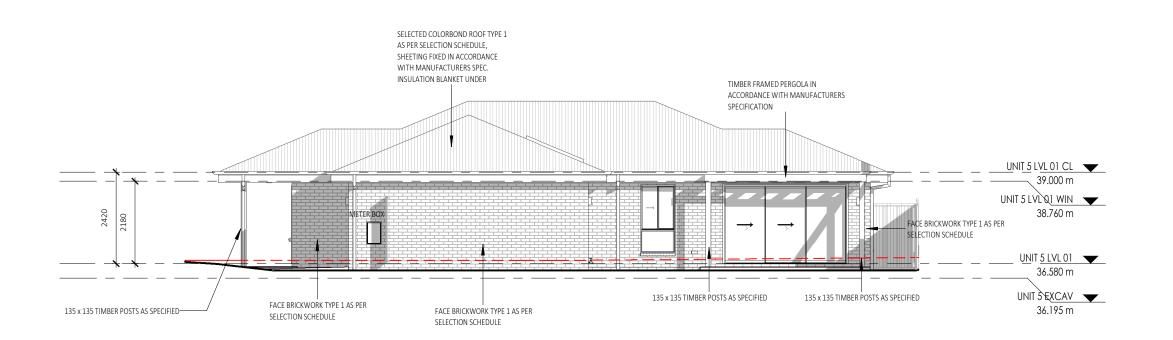
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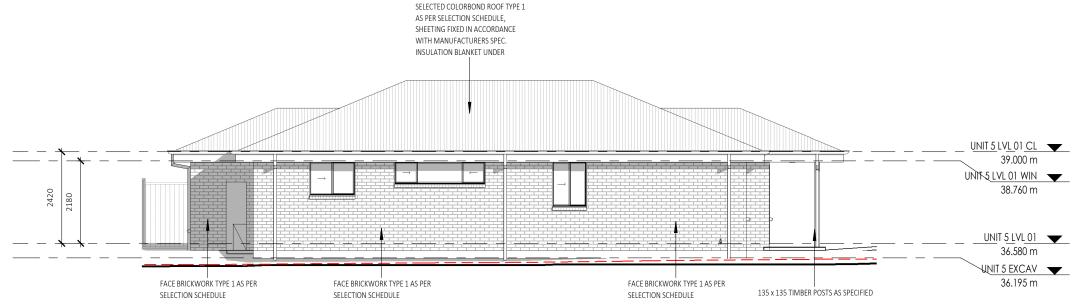




EAST ELEVATION - UNIT 5

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LEGEND - KEYNOTES (REFER SPECIFICATIONS)



WEST ELEVATION - UNIT 5

1:100

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GRUGEON

AT: LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

ELEVATIONS - UNIT 5

 25.10.23

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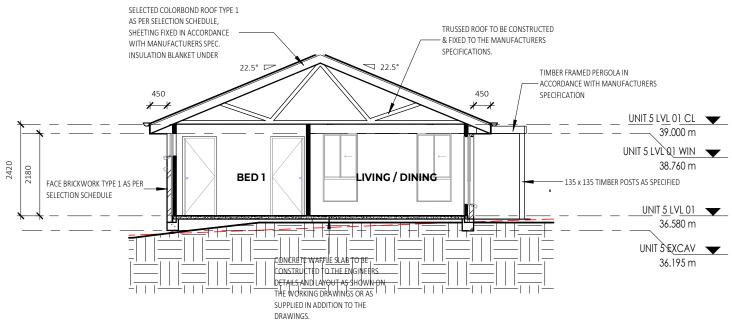
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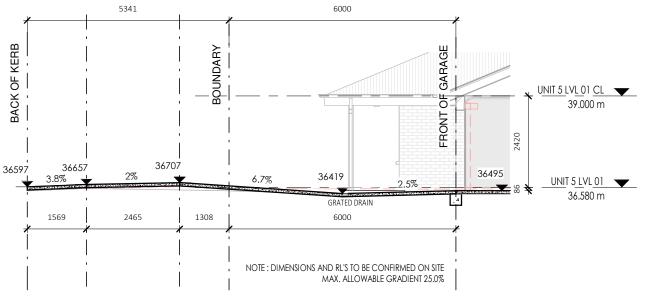
SECTION E

1:100

ALL BRICKWORK TO BE FULLY ARTICULATED IN ACCORDANCE WITH AS 3700 MASONRY STRUCTURES OR AS4773 MASONRY FOR SMALL BUILDINGS, PARTS 1 AND 2.

ARTICULATION JOINTS MUST HAVE A WIDTH NOT LESS THAN 10mm AND BE PROVIDED IN FOLLOWING LOCATIONS:

- * FOR STRAIGHT, CONTINUOUS WALLS HAVING NO OPENINGS, THE MAXIMUM SPACING OF 10mm ARTICULATION JOINTS UP TO 4m HIGH: EXTERNAL FACE FINISHED MASONRY 5.0m CTS; EXTERNAL RENDERED AND/OR PAINTED MASONRY 4.5m OR
- * FOR STRAIGHT, CONTINUOUS WALLS HAVING NO OPENINGS, THE MAXIMUM SPACING OF 10mm ARTICULATION JOINTS FROM 4m-8.5m H: EXTERNAL FACE FINISHED MASONRY 3.5m CTS; EXTERNAL RENDERED AND/OR PAINTED MASONRY 3.2m
- * MAXIMUM SPACING OF ARTICULATION JOINTS IN WALLS WHERE WINDOW OR DOOR OPENINGS MORE THAN 900 x 900mm OCCUR, TO BE NO MORE THAN 5.0m CTRS, AND POSITIONED IN LINE WITH ONE EDGE OF THE OPENING; AND
- * WHERE THE HEIGHT OF THE WALL CHANGES BY MORE THAN 20%, AT THE POSITION OF CHANGE IN HEIGHT; AND
- * WHERE WALLS CHANGE IN THICKNESS; AND
- * AT CONTROL OR CONSTRUCTION JOINTS IN FOOTING SLABS; AND * AT JUNCTIONS OF WALLS CONSTRUCTED OF DIFFERENT MASONRY MATERIALS; AND
- * AT DEEP CHASES (REBATES) FOR SERVICE PIPES.
- * AT A DISTANCE FROM ALL CORNERS NOT GREATER THAN 4500mm AND NOT LESS THAN 470mm FOR CAVITY WALLS OR 230mm FOR VENEER WALLS.



INSULATION NOTES:

1:100

R3.5 INSULATION TO CEILINGS (EXCLUDES GARAGES, PORCHES, BALCONIES AND ALFRESCOS).

R2.0 INSULATION TO EXTERNAL WALLS (EXCLUDES GARAGE WALLS)

R2.0 INSULATION TO INTERNAL GARAGE WALLS

DRIVEWAY PROFILE E1

UNDER SLAB INSULATION:

REFER TO GEOTECH S/M/H CLASS.

S&M CLASS - 310MM SLAB THICKNESS / 225MM THICK STYROFOAM PODS UNDER SLAB

H CLASS - 385MM SLAB THICKNESS / 300MM THICK STYROFOAM PODS UNDER SLAB

REFER TO TENDER

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GRUGEON

AT: LOT 265 & 266 - DP1271229 SPRINGFIELD DRIVE LOCHINVAR NSW 2321

Sheet Title

SECTION - UNIT 5

 Date
 25.10.23

 Drawn by
 GR

 Checked
 Date

 Signed by Builder

As indicated

Design CUSTOM

Drawing No.



@ A3

APPENDIX B ASSET PROTECTION ZONES

APPENDIX 4

ASSET PROTECTION ZONE REQUIREMENTS

In combination with other BPMs, a bush fire hazard can be reduced by implementing simple steps to reduce vegetation levels. This can be done by designing and managing landscaping to implement an APZ around the property.

Careful attention should be paid to species selection, their location relative to their flammability, minimising continuity of vegetation (horizontally and vertically), and ongoing maintenance to remove flammable fuels (leaf litter, twigs and debris).

This Appendix sets the standards which need to be met within an APZ.

A4.1 Asset Protection Zones

An APZ is a fuel-reduced area surrounding a building or structure. It is located between the building or structure and the bush fire hazard.

For a complete guide to APZs and landscaping, download the NSW RFS document *Standards for Asset Protection Zones* at the NSW RFS Website www.rfs.nsw.gov.au.

An APZ provides:

- **)** a buffer zone between a bush fire hazard and an asset:
- **)** an area of reduced bush fire fuel that allows for suppression of fire;
- an area from which backburning or hazard reduction can be conducted; and
- an area which allows emergency services access and provides a relatively safe area for firefighters and home owners to defend their property.

Bush fire fuels should be minimised within an APZ. This is so that the vegetation within the zone does not provide a path for the spread of fire to the building, either from the ground level or through the tree canopy.

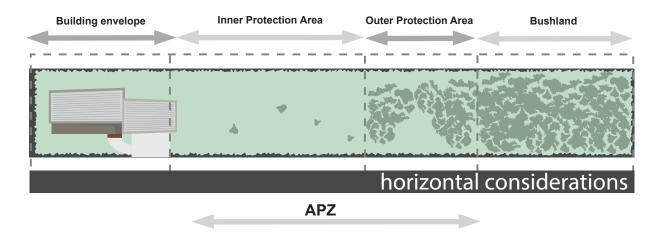
An APZ, if designed correctly and maintained regularly, will reduce the risk of:

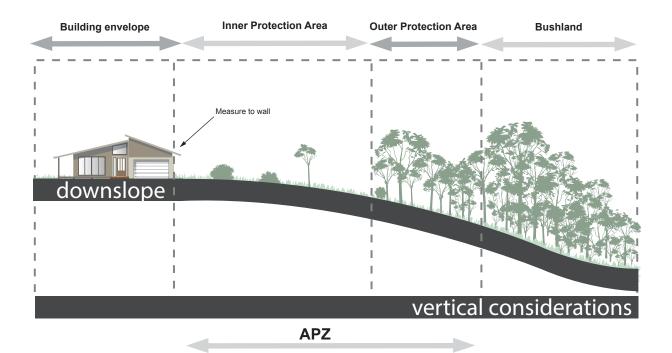
- direct flame contact on the building;
- damage to the building asset from intense radiant heat; and
- > ember attack.

The methodology for calculating the required APZ distance is contained within Appendix 1. The width of the APZ required will depend upon the development type and bush fire threat. APZs for new development are set out within Chapters 5, 6 and 7 of this document.

In forest vegetation, the APZ can be made up of an Inner Protection Area (IPA) and an Outer Protection Area (OPA).

Figure A4.1Typlical Inner and Outer Protection Areas.





A4.1.1 Inner Protection Areas (IPAs)

The IPA is the area closest to the building and creates a fuel-managed area which can minimise the impact of direct flame contact and radiant heat on the development and act as a defendable space. Vegetation within the IPA should be kept to a minimum level. Litter fuels within the IPA should be kept below 1cm in height and be discontinuous.

In practical terms the IPA is typically the curtilage around the building, consisting of a mown lawn and well maintained gardens.

When establishing and maintaining an IPA the following requirements apply:

Trees

- tree canopy cover should be less than 15% at maturity:
- trees at maturity should not touch or overhang the building;
- lower limbs should be removed up to a height of 2m above the ground;
- tree canopies should be separated by 2 to 5m; and
- > preference should be given to smooth barked and evergreen trees.

Shrubs

- create large discontinuities or gaps in the vegetation to slow down or break the progress of fire towards buildings should be provided;
- > shrubs should not be located under trees;
- shrubs should not form more than 10% ground cover; and
- clumps of shrubs should be separated from exposed windows and doors by a distance of at least twice the height of the vegetation.

Grass

- grass should be kept mown (as a guide grass should be kept to no more than 100mm in height); and
- leaves and vegetation debris should be removed.

A4.1.2 Outer Protection Areas (OPAs)

An OPA is located between the IPA and the unmanaged vegetation. It is an area where there is maintenance of the understorey and some separation in the canopy. The reduction of fuel in this area aims to decrease the intensity of an approaching fire and restricts the potential for fire spread from crowns; reducing the level of direct flame, radiant heat and ember attack on the IPA.

Because of the nature of an OPA, they are only applicable in forest vegetation.

When establishing and maintaining an OPA the following requirements apply:

Trees

- tree canopy cover should be less than 30%; and
- > canopies should be separated by 2 to 5m.

Shrubs

- > shrubs should not form a continuous canopy; and
- > shrubs should form no more than 20% of ground cover.

Grass

- grass should be kept mown to a height of less than 100mm; and
- > leaf and other debris should be removed.

An APZ should be maintained in perpetuity to ensure ongoing protection from the impact of bush fires. Maintenance of the IPA and OPA as described above should be undertaken regularly, particularly in advance of the bush fire season.

APPENDIX C WATER INFORMATION



Before You Dig Australia (BYDA) Location Information

Hunter Water Corporation

36 Honeysuckle Drive NEWCASTLE NSW 2300

To:

Azmina Shafie 97 Scott Street

Newcastle NSW 2300

Enquiry Details	
Utility ID	80220
Job Number	36788513
Sequence Number	239865575
Enquiry Date	29/05/2024 11:15
Response	AFFECTED
Address	130 Springfield Dr Lochinvar
Location in Road	
Activity	Planning and Design

Enquirer Details	
Customer ID	3473355
Contact	Azmina Shafie
Company	
Email	azmina@firebirdeco.com.au
Phone	+61422344481

Enquirer Responsibilities

HWC's provision, and your access to and use, of the data, maps and other information contained in HWC's response to your Before You Dig Australia (BYDA) enquiry (Information) are subject to the following terms and conditions and any additional disclaimers contained in HWC's response.

1. Nature of HWC's assets

You acknowledge and accept that:

- water in HWC mains is under pressure and may cause injury or damage if a main is damaged;
- HWC sewer mains can be under pressure and may cause injury or damage if a main is damaged;
- HWC recycled water mains can be under pressure and may cause injury or damage if a main is damaged;
- (d) HWC services are laid at varying depths;
- the Information does not include data related to property services; (e)
- HWC will seek recovery of repair costs if an HWC asset is damaged; and
- all electrical services are to be considered live.

Accordingly, all persons must exercise extreme care and only use hand excavation until the exact location of all assets within a work area is established.

2. Your use of Information

You acknowledge and accept that:

- neither HWC nor BYDA make any representation or give any guarantee, warranty or undertaking (express or implied) as to the currency, accuracy, completeness, effectiveness or reliability of the Information;
- all Information is:
 - i. generated by an automated system based on the information you submit to the BYDA website and it is your responsibility to ensure that the dig site is properly defined in your enquiry;
 - ii. approximate, intended to be of general application and may not be suitable for your specific requirements;
 - unsuitable for scaling purposes; and iii.
 - based on information available to HWC and may not show all existing structures. For example, the location of Private Sewer/Water Mains is iv. the initial indicative location supplied to HWC. This may not be the current location of such mains and not all private mains have been supplied to HWC;
- you must not solely rely on the Information when undertaking underground works:
- all Information is provided for the sole purpose of assisting you to locate HWC assets before excavation (Permitted Purpose) and you must not copy, translate, modify, distribute or make derivative works of the Information except as directly required to achieve the Permitted Purpose;
- all Information must be used and kept together;
- your access to and use of the Information does not grant you any ownership of or intellectually property rights in the Information;
- (g) in identifying in the Information the presence or potential presence of hazardous or potentially hazardous materials in HWC assets, HWC is not representing or warranting that other HWC assets not identified in the Information as containing or potentially containing hazardous materials do not also contain such materials; and
- in excavating and conducting underground works, you must do so having regard to the fact that asbestos cement pipelines may form part of HWC's water and sewer reticulation systems.

3. Your other obligations

You are responsible for, amongst other things:

- exposing underground structures, including HWC assets, by pot-holing using hand-held tools or vacuum techniques to determine the precise location and extent of structures before any mechanical means of excavation are used;
- protecting underground structures, including HWC assets, from damage and interference;
- maintaining acceptable clearances between HWC assets and structures belonging to others: (c)
- ensuring that backfilling in the vicinity of HWC assets complies with HWC's requirements (as set out on HWC's website or otherwise communicated to you by HWC);
- notifying HWC immediately of any damage caused or threat of damage to any HWC asset; and
- ensuring that plans are approved by HWC (usually by stamping) prior to landscaping or building over or in the vicinity of any HWC asset.





Enquirer Responsibilities Continued

4. Disclaimer

While HWC takes reasonable care in providing details of its underground assets, due to changes in road and footway alignments and levels, the age and incompleteness of some records and the general nature of the Information, it is not possible to conclusively specify the location of all HWC underground assets, including pipes that contain or may contain hazardous materials.

ALL INFORMATION IS PROVIDED AS GENERAL GUIDANCE ONLY AND SHOULD NOT BE USED OR RELIED UPON IN SUBSTITUTION FOR SPECIALISED PROFESSIONAL INDEPENDENT ADVICE. YOU ACKNOWLEDGE AND AGREE THAT YOUR USE OF THE INFORMATION IS AT YOUR OWN RISK.

If you have any questions or concerns about the appropriateness, reliability or application of any Information you must seek advice from a relevantly qualified professional. Further, dealing with hazardous materials is potentially dangerous, and you must always seek advice where the Information provides that HWC's assets contain or may contain hazardous materials.

HWC makes no representation and gives no warranty or undertaking (express or implied) as to the currency, accuracy, completeness, effectiveness or reliability of the Information or that the Information can be used for any purpose in substitution for specialised, professional and independent advice.

5. Limitation of liability

To the fullest extent permitted by law:

- all conditions and guarantees concerning the Information (whether as to quality, outcome, fitness, care, skill or otherwise) expressed or implied by statute, common law, equity, trade, custom, usage or otherwise are expressly excluded and to the extent such conditions and guarantees cannot be excluded, HWC's liability is limited to either of the following (as nominated by HWC):
 - HWC supplying the Information to you again; or
 - HWC paying you the cost of having the Information supplied to you again. ii.
- (b) HWC is not responsible for and you release HWC from any actions, liabilities, losses, damages, costs, claims, expenses, injuries or other claims whatsoever (including loss of revenue, use, production, goodwill, profit, business, contract, anticipated savings, financing costs, increased operating costs or other purely financial, economic, special or indirect loss or damage) arising out of:
 - your access to or use of the Information;
 - any delay in HWC providing you with Information; ii.
 - your reliance on the Information or its inability to meet your needs; iii.
 - your failure to correctly or accurately: iv.
 - (1) submit relevant or valid data to BYDA; or
 - (2) use or interpret Information provided to you by HWC; or
 - ٧. any failure, interruption or corruption of any Information;

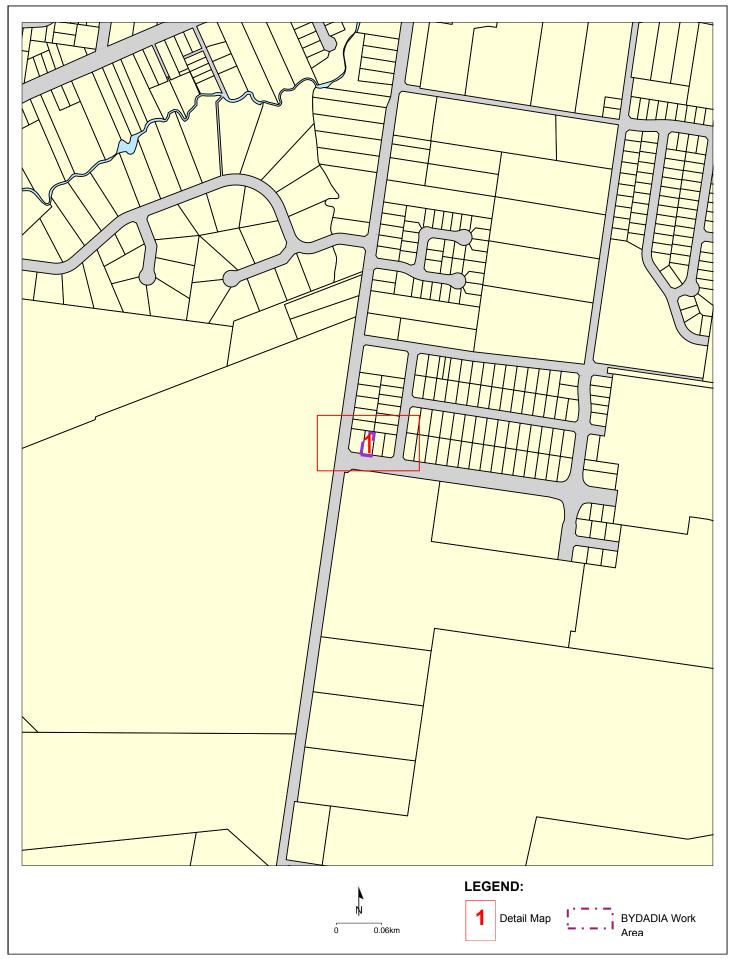
(c)	you must indemnify HWC and its employees, agents and officers from and against all actions, liabilities, losses, damages, costs, claims,
	expenses, injuries and other claims arising out of or in connection with HWC providing you with incorrect or incomplete Information; and
you	assume all risk associated with your use of BYDA and HWC's websites and you release BYDA and HWC from and against all actions, liabilities
loss	ses, damages, costs, claims, expenses, injuries or other claims which may arise in respect of such usage.





Overview Map

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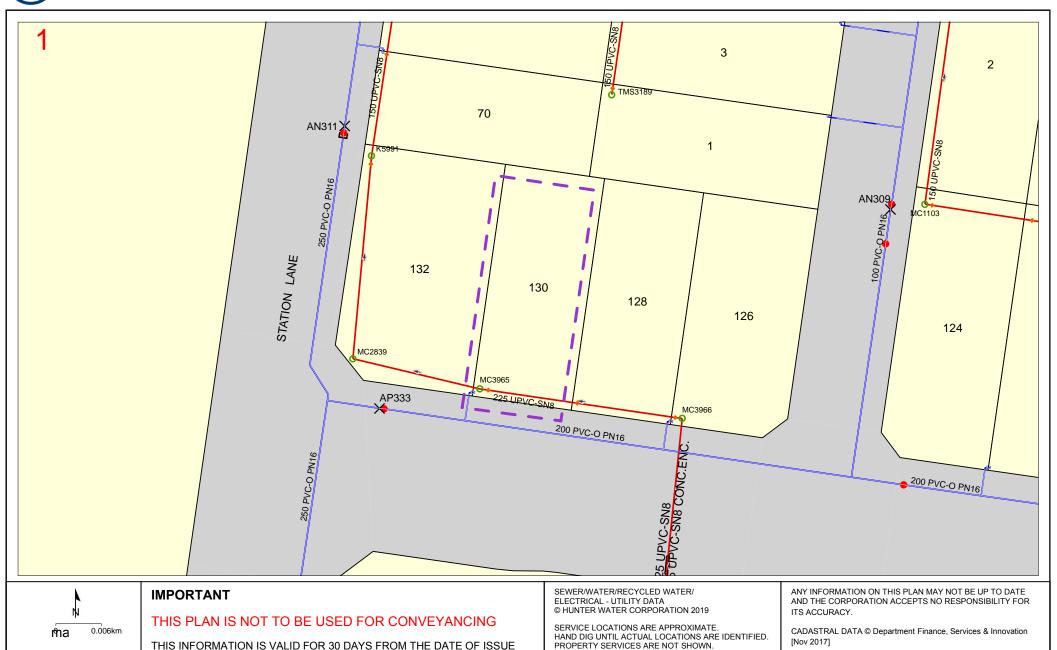


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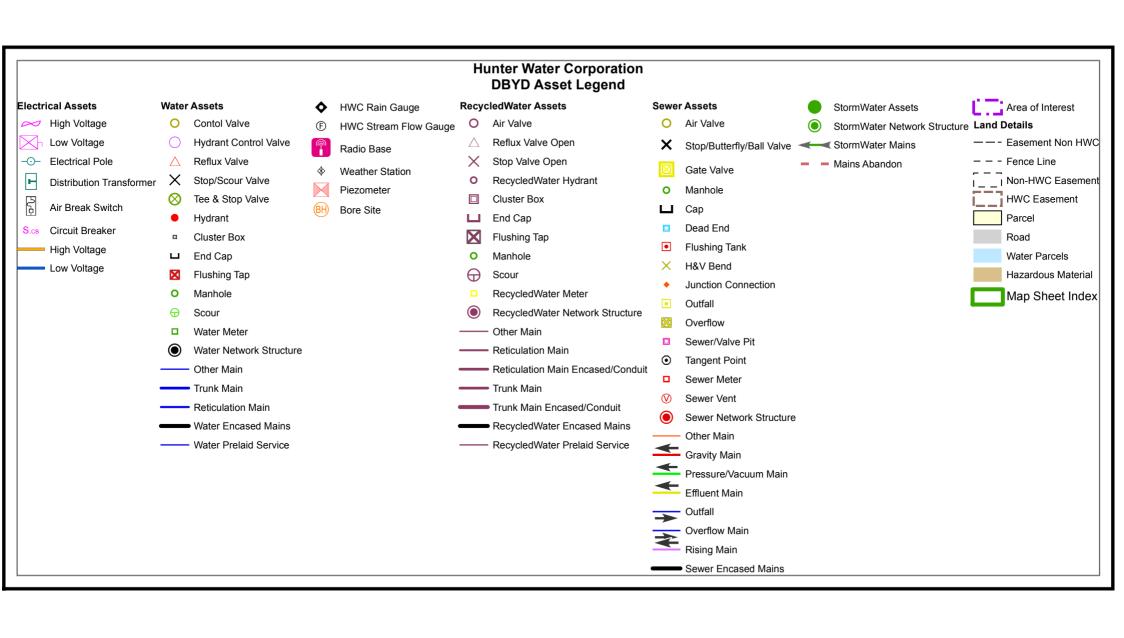


Map 1

Sequence No: 239865575







APPENDIX D SUBDIVISION PLAN

