



## Department of Transport and Planning

GPO Box 2392  
Melbourne, VIC 3001 Australia  
[www.dtp.vic.gov.au](http://www.dtp.vic.gov.au)

Ref: VPP2402817

Community Housing (Vic) Ltd  
C/- Laura Dixon  
Urbis Ltd  
Level 10, 477 Collins Street  
MELBOURNE VIC 3000  
[ldixon@urbis.com.au](mailto:ldixon@urbis.com.au)

Dear Ms Dixon

### **APPLICATION FOR CONSENT UNDER VPP VPP2402817 2-14 TOBRUK STREET MORWELL VIC 3840**

I refer to the above matter submitted to the Minister for Planning on 20/03/2024.

The planning application has been deemed consistent with Clause 52.20 of the Latrobe Planning Scheme and therefore exempt from a planning permit, subject to the conditions below.

A planning permit is not required for the following triggers:

- Clause 32.04-7 (GRZ1) – To construct two or more dwellings on a lot.
- Clause 32.08-7 (GRZ1) – to construct or extend a front fence within 3 metres of a street if the fence is associated with two or more dwellings on a lot and exceeds the maximum height specified in Clause 55.06-2.
- 

### **PRE-COMMENCEMENT CONDITIONS**

*Prior to the commencement of construction (excluding any early works), the following must be submitted:*

1. *A Tree Protection Management Plan (TPMP), setting out how the existing trees will be protected during construction, prepared by a suitably qualified arborist.*

Any personal information about you or a third party in your correspondence will be protected under the provisions of the Privacy and Data Protection Act 2014. It will only be used or disclosed to appropriate Ministerial, Statutory Authority, or departmental staff in regard to the purpose for which it was provided, unless required or authorised by law. Enquiries about access to information about you held by the Department should be directed to [foi.unit@delwp.vic.gov.au](mailto:foi.unit@delwp.vic.gov.au) or FOI Unit, Department of Transport and Planning, GPO Box 2392, Melbourne, Victoria 3001.



Prior to the commencement of construction (excluding any early works), the applicant must obtain all relevant approvals under local laws.

This consent letter does not represent the approval that may be required by other statutory authorities, including approval from Latrobe City Council under relevant local laws.

### **APPROVED DOCUMENTS**

Concurrent to the conditions above, the development must be undertaken in accordance with the following documents approved under Clause 52.20-3 of the Latrobe Planning Scheme:

- Architectural Drawings prepared by Every One Homes, dated 2 November 2023
- Landscape Plan, prepared by MACA Design Co dated 2 November 2023
- ESD Statement prepared by GIW Environmental Solutions dated 25 January 2024
- Waste Management Plan prepared by One Mile Grid dated 15 January 2024
- Stormwater Report prepared by Water Technology dated 4 December 2023
- Arboricultural Report prepared by Evergreen Tree Consulting dated 10 January 2024
- Ecological Assessment prepared by Beacon Ecological dated October 2023
- Construction Management Plan prepared by Every One Homes, dated 2 November 2023

A copy of the endorsed plans and documents referred to above is enclosed.

### **ONGOING COMPLIANCE**

Please note, under Clause 52.20-3 of the Latrobe Planning Scheme the use and development of land must be carried out in accordance with these plans and documents to the satisfaction of the Minister for Planning.

If you have any questions, please contact me on 8508 1065 or email [anne-marie.edgley@delwp.vic.gov.au](mailto:anne-marie.edgley@delwp.vic.gov.au).



09/05/2024

PROJECT: **Community Housing Ltd**  
 ADDRESS: **2 Tobruk Street, Morwell VIC**

PLANNING and ENVIRONMENT ACT  
 LATROBE PLANNING SCHEME  
 CONSENT UNDER CLAUSE 52.20  
 VPP2402817  
 ENDORSED PLAN  
 Sheet 1 of 12  
 Signed: *[Signature]* for  
 MINISTER FOR PLANNING  
 Date: 3 MAY 2024



**IMPORTANT NOTES:**  
 PRESENTATION DRAWINGS ARE INDICATIVE ONLY OF COLOUR, MATERIALS AND FINISHES

13	13/02/24	EX. FENCE NOTES REMOVED FROM SITE PLAN / 3m VEHICLE CROSSING NOMINATED SITE PLAN	2BW
12	09/02/24	OVERALL BUILDING HEIGHT TO AND NOMINATED ON ALL DWELLINGS (ELEVATIONS) / ALL DWELLINGS COMPLY WITH LHA SILVER NOTE ADDED TO SITE PLAN	2BW
11	13/01/24	ALL TREES TO BE DEMOLISHED NOTED / LANDSCAPING CANOPY TREES IN FRONT SETBACKS AND PROPOSED NATURE STRIPS INDICATIVE TO MATCH LANDSCAPE PLANS	2BW
10	21/12/23	PROPOSED REAR BOUNDARIES BETWEEN UNITS 3 & 6, 7, 10 HAVE BEEN MOVED 800mm WEST / PARKLAND FOOTPATH ACCESS REVISED / CORNER SEAL AT BOUNDARY ON LOT 24 REVISED	2BW
9	09/12/23	PROPOSED ROAD INTERSECTIONS REVISED AT AL-AMIN AND CHURCHILL ENTRY / ALL FOOTPATHS REVISED TO SUIT / TREE 2 NOW SHOWN AS TO BE REMOVED / LOT 20, 21, 24 & 27	2BW
8	02/11/23	PROPOSED PROPERTY BOUNDARIES MOVED 400mm WEST / UNITS 3 & 6, 1, 1, 14 ROTATED TO SUIT NEW ROAD ANGLE / ALL VEHICLE CROSSINGS NOW PERPENDICULAR TO ROADS	2BW
7	24/10/23	SITE LEGEND REVISED / FOOTPATHS NOTED / DIMED SIZE NOTED / P.D.S. REVISED TO 3.0 x 0.5	2BW
6	24/10/23	PLANNING COMMENTS ADDRESSED	2BW
5	17/10/23	PLANNING COMMENTS ADDRESSED / ELEVATIONS ADDED / MATERIALS LEGEND ADDED	2BW
4	03/10/23	UNITS 21 - 24 MIRRORED FOR BETTER SOLAR ORIENTATION / CLIENT COMMENTS ADDED	2BW
3	30/09/23	SHADOW DIAGRAMS ADDED	2BW
2	26/08/23	FEASIBILITY CONCEPT REDESIGN / PLANNERS COMMENTS ADDRESSED	2BW
1	24/08/22	INITIAL FEASIBILITY APPROVED	2BW



PROPOSAL:  
**27 No. DWELLING DEVELOPMENT**

DRAWING: COVER SHEET	PROJECT NUMBER: TBC	PROPERTY ADDRESS: 2 TOBRUK STREET, MORWELL
DATE: 02/11/2023	DRAWN BY: 2BW	CLIENT: COMMUNITY HOUSING LTD.
	SCALE:	SHEET No: 01/12

20/02/2024 10:46:45 AM



**DESIGN RESPONSE NOTES**

**2 TOBRUK STREET, MOREWELL VIC**

The design approach has been to develop the site with consideration to key design principles as well as careful consideration to the local context and planning requirements. The approach towards the site looks to create a generous ratio of private open space and green spaces to built form while ensuring respectful interfaces to the existing and neighbouring residential.

Our site response can be demonstrated in the following key principles:

**Contextual Development:**  
The 27 proposed dwellings on the 1350m<sup>2</sup> site. Presents a medium to low density response and provides a comprehensive residential frontage to Tobruk Street, Alamein Street and Churchill Street. Density of dwellings has not been pushed to ensure it does not overwhelm existing infrastructure. The building materials, facade, scale & aesthetics provide a contemporary feel that complements the neighbourhood character.

**Neighbourliness:**  
The proposal provides side and rear setbacks to existing boundaries consistent with the 5.2.0 requirements while also providing opportunities for landscaping and space for resident interaction with neighbours.

**Sense of Place:**  
Dwellings proposed are designed with contemporary expectations and seek to provide an enhanced building interface to local streets with variations of product types, facade elevations and form. Carefully selected materials will ensure dwellings integrate and complement the street interface.

**Community:**  
Generous setbacks from the front of the dwellings ensure compliance with the 5.2.0 requirements while also providing opportunities for landscaping and space for resident interaction with neighbours.

**Active Transport:**  
The proposed development considers its integration with local amenity providing a suitable proposal within close proximity to significant social, commercial, industrial infrastructure and public transport while also ensuring each dwelling provides car parking aligned with planning requirements. Distances to such can be found in legend below.

**Familiarity:**  
The surrounding streetscapes present predominantly single storey dwellings with the proposed massing responding accordingly. Building heights and setbacks are sensitive to the existing neighbourhood character and contribute to a well articulated facade & visually aesthetic street presence through single storey built form.

**Liveable Homes:**  
All dwellings incorporate energy efficient design practices achieving 7 star NatHERS energy rating through the use of double glazing, low-e glass, insulation upgrades and passive design principles such as extended eaves, orienting living spaces and windows to north where practically possible. Generous private open space and well defined SP'OS provide abundant landscaping opportunity to include screen planting and larger canopy trees.

**Safe Streets:**  
Where possible, front door entries are orientated towards the street boundary with sensor lighting incorporated within porches and parking bays. Privacy is gained by the utilisation of obscure glazing & screening (where applicable) with appropriately situated and sized windows.

**Adaptability:**  
The housing products support occupants with a variety of needs with consideration to aging in place & improved livability through LMA adherence. All designs and siting achieve a minimum LMA silver.

**Diversity:**  
Dwelling diversity is ensured through the variation of design, materials and housing typologies.

**AMENITIES LOCATIONS:**

- (DISTANCES ASSUMED FROM CENTRE OF SITE)
- ← PHARMACY - 300M
  - ← POST OFFICE - 300M
  - ← PRESCHOOL / EARLY LEARNING CENTRE - 350M
  - ← BUS STOP - 450M
  - ← PRIMARY SCHOOL - 550M
  - ← RONALD RESERVE - 600M
  - ← PRIMARY SCHOOL - 1.4KM
  - ← WOOLWORTHS / SHOPPING CENTRE - 1.6KM
  - ← MEDICAL CENTRE - 1.8KM
  - ← MEDICAL CENTRE - 2.2KM
  - ← GROCERY - 2.2KM
  - ← MOREWELL RAILWAY STATION - 2.3KM
  - ← KURNAL COLLEGE - 2.4KM
  - ← MOREWELL TOWN CENTRE / SHOPPING - 2.5KM
  - ← PRIVATE HOSPITAL - 2.8KM

**IMPORTANT NOTES:**

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P.O. Box 887, Mount Waverley, VIC, 3149  
Tel: 1300 796 873  
www.metriconhomes.com.au

PROPOSAL:  
**27 No. DWELLING DEVELOPMENT**

DRAWING:  
**DESIGN RESPONSE**

DATE:  
02/11/2023

DRAWN BY:  
2BW

PROJECT NUMBER:  
TBC

PROPERTY ADDRESS:  
2 TOBRUK STREET, MORWELL

CLIENT:  
COMMUNITY HOUSING LTD.

SHEET No:  
02/12

C ALAMEIN STREET



PROPERTY SCHEDULE					
LOT No.	PROPOSED LOT AREA	BUILDING NAME	FACADE	BUILDING AREA	SITE COVERAGE PROPOSED LOT
01	393 m <sup>2</sup>	MILFORD 9	ACCESS	105 m <sup>2</sup>	27%
02	427 m <sup>2</sup>	MILFORD 9	YALE	105 m <sup>2</sup>	24%
03	323 m <sup>2</sup>	ARGYLE 13	ACCESS	114 m <sup>2</sup>	35%
04	294 m <sup>2</sup>	LUCAS 12	ACCESS	139 m <sup>2</sup>	47%
05	291 m <sup>2</sup>	ARGYLE 13	ACCESS	114 m <sup>2</sup>	39%
06	270 m <sup>2</sup>	LUCAS 12	ACCESS	139 m <sup>2</sup>	51%
07	286 m <sup>2</sup>	LUCAS 12	ACCESS	114 m <sup>2</sup>	40%
08	286 m <sup>2</sup>	LUCAS 12	YALE	114 m <sup>2</sup>	40%
09	285 m <sup>2</sup>	LUCAS 12	ACCESS	114 m <sup>2</sup>	40%
10	285 m <sup>2</sup>	ARGYLE 13	YALE	114 m <sup>2</sup>	40%
11	288 m <sup>2</sup>	ARGYLE 13	ACCESS	139 m <sup>2</sup>	48%
12	272 m <sup>2</sup>	LUCAS 12	ACCESS	114 m <sup>2</sup>	42%
13	288 m <sup>2</sup>	ARGYLE 13	ACCESS	139 m <sup>2</sup>	48%
14	286 m <sup>2</sup>	LUCAS 12	ACCESS	114 m <sup>2</sup>	40%
15	323 m <sup>2</sup>	MILFORD 10	YALE	127 m <sup>2</sup>	39%
16	334 m <sup>2</sup>	MILFORD 10	ACCESS	127 m <sup>2</sup>	38%
17	339 m <sup>2</sup>	MILFORD 10	YALE	127 m <sup>2</sup>	37%
18	344 m <sup>2</sup>	MILFORD 10	ACCESS	127 m <sup>2</sup>	37%
19	314 m <sup>2</sup>	MILFORD 9	YALE	105 m <sup>2</sup>	33%
20	305 m <sup>2</sup>	MILFORD 9	ACCESS	105 m <sup>2</sup>	34%
21	339 m <sup>2</sup>	MILFORD 9	YALE	105 m <sup>2</sup>	31%
22	338 m <sup>2</sup>	MILFORD 9	ACCESS	105 m <sup>2</sup>	31%
23	339 m <sup>2</sup>	MILFORD 9	YALE	105 m <sup>2</sup>	31%
24	338 m <sup>2</sup>	MILFORD 9	ACCESS	105 m <sup>2</sup>	31%
25	437 m <sup>2</sup>	MILFORD 10	YALE	127 m <sup>2</sup>	29%
26	414 m <sup>2</sup>	MILFORD 10	ACCESS	127 m <sup>2</sup>	31%
27	410 m <sup>2</sup>	MILFORD 9	YALE	105 m <sup>2</sup>	25%
OVERALL BUILDING AREA:				3167 m <sup>2</sup>	OVERALL SITE COVERAGE
OVERALL SITE AREA:				13929 m <sup>2</sup>	23%

LANDSCAPING AREAS	
CONCRETE DRIVEWAY	987 m <sup>2</sup>
CONCRETE PATH	612 m <sup>2</sup>
LANDSCAPING	7069 m <sup>2</sup>
PERMEABLE PAVING	676 m <sup>2</sup>
ROAD	1432 m <sup>2</sup>
GARDEN AREA	7531 m <sup>2</sup>
TOTAL PERMEABLE AREA:	7746 m <sup>2</sup>
	56%

LEGEND

- PROPOSED RETAINING WALL
- CONCRETE DRIVEWAY / PATH
- PERMEABLE PAVING
- PROPOSED ROAD
- PROPOSED PARKLAND
- TREE PROTECTION ZONE
- TREE TO BE REMOVED
- EXISTING TREE
- PROPOSED LANDSCAPING SHRUB / TREE

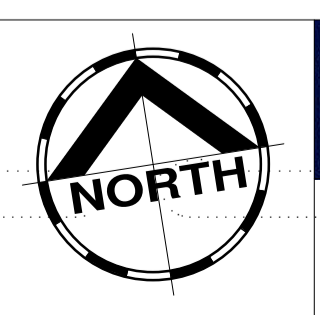
NOTE: ALL DWELLINGS WILL COMPLY WITH LHA SILVER DESIGN GUIDELINES REFER ALSO TO DETAILED PLANS ON SHEET 09-12



**IMPORTANT NOTES:**

- All trees numbered as per Evergreen Preliminary Tree Survey Report Version 1, dated 10/08/2023
- Permits may be required to remove Trees 22, 23 & 25
- Proposed levels subject to civil design
- Do not scale drawings, dimensions will take precedence. Confirm all dimensions prior to any ordering, shop drawing & any commencement of works.
- All dimensions must be verified on site.
- All proposed landscaping trees and shrubs are shown as indicative only. Please refer to detailed Landscape drawing set by MACA Design Co.

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9	09/12/23	PROPOSED ROAD INTERSECTION RADII REVISED AT ALAMEIN AND CHURCHILL ENDS / ALL FOOTPATHS REVISED TO SHIP / TREE 22 NOW SHOWN AS TO BE REMOVED / LOT 20, 21, 24 & 27 PROPOSED PROPERTY BOUNDARIES MOVED 4.8m WEST / UNITS 3 & 4, 11 & 14 ROTATED TO SET NEW ROAD ANGLE / ALL VEHICLE CROSSINGS NOW PERPENDICULAR TO ROADS	2BW
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2	24/09/23	INITIAL FEASIBILITY APPROVED	2BW



PROPOSAL: **27 No. DWELLING DEVELOPMENT**

DRAWING: **GROUND FLOOR/ SITE PLAN**

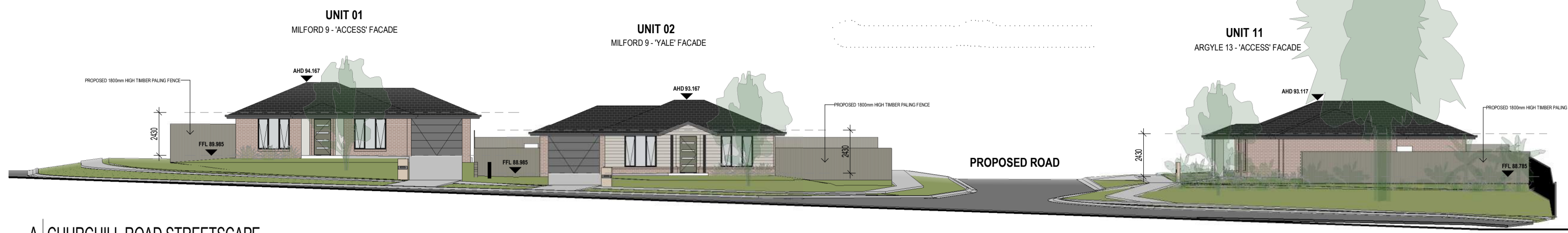
DATE: **02/11/2023**

PROJECT NUMBER: **TBC**

PROPERTY ADDRESS: **2 TOBRUK STREET, MORWELL**

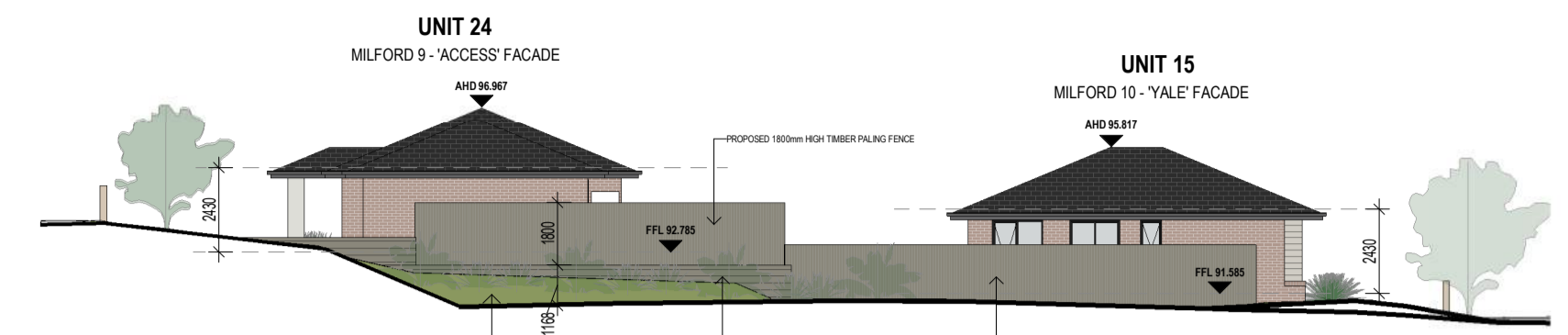
CLIENT: **COMMUNITY HOUSING LTD.**

SHEET No: **03/12**



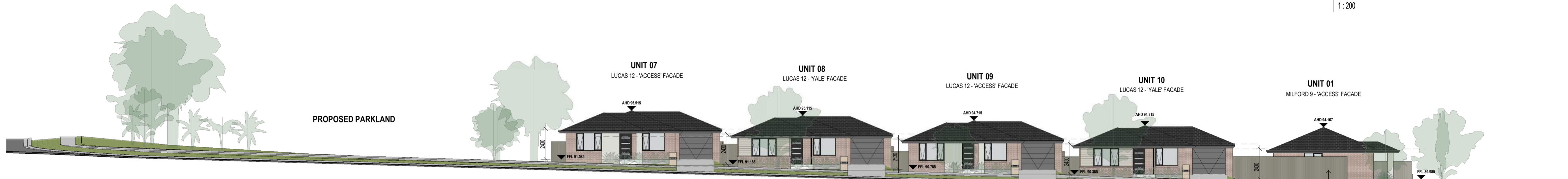
A CHURCHILL ROAD STREETSCAPE

1:200



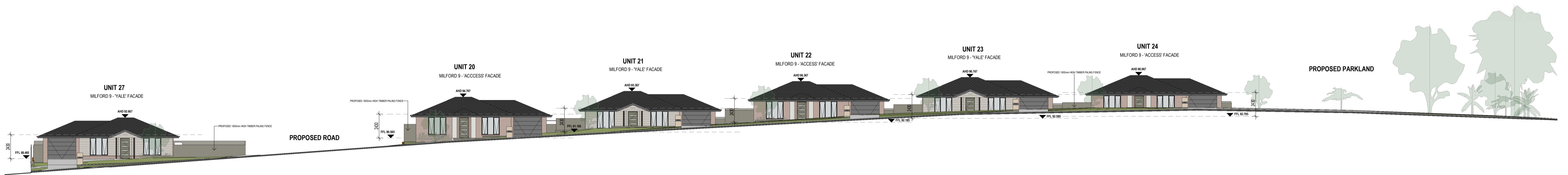
H PROPOSED PARKLAND - UNITS 24 & 15

1:200



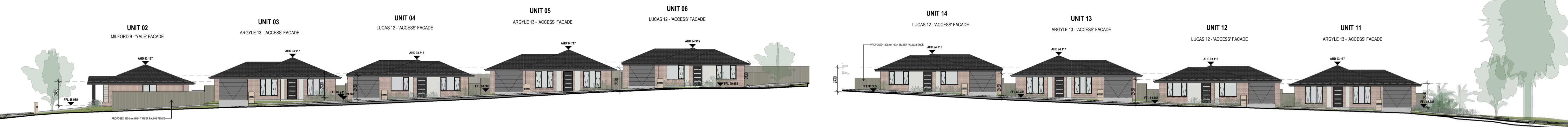
B TOBRUK STREETSCAPE

1:200



C ALAMEIN STREETScape

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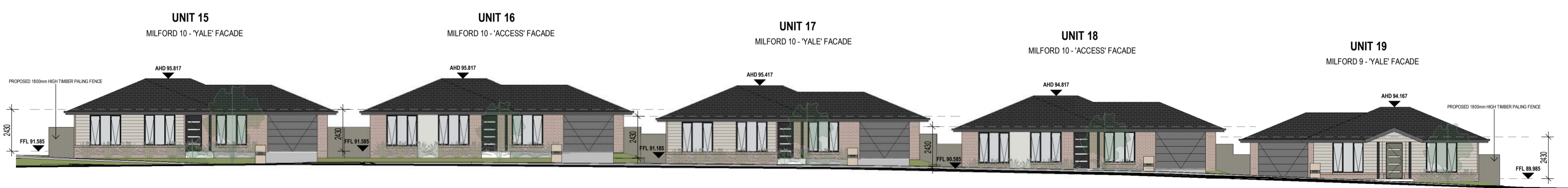


D PROPOSED ROAD - UNITS 2 - 6

1:200

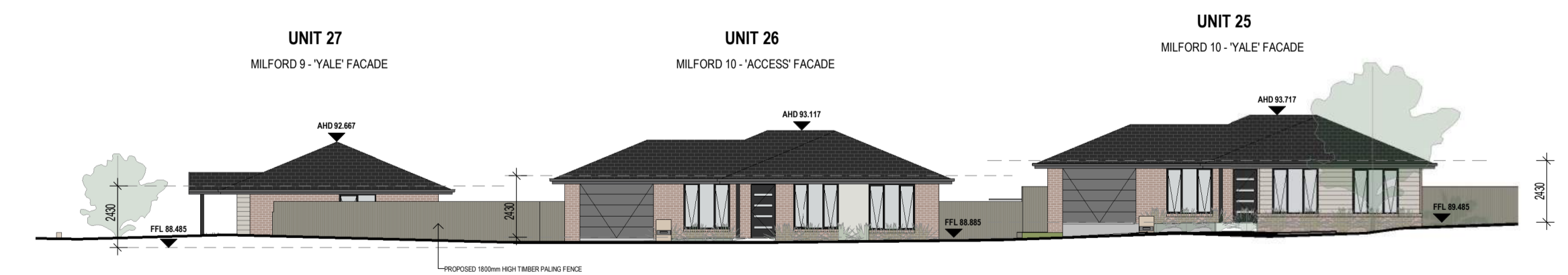
E PROPOSED ROAD - UNITS 11 - 14

1:200



F PROPOSED ROAD - UNITS 15 - 19

1:200



G PROPOSED ROAD - UNITS 27 - 25

1:200

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**metricon** **EVERYONE**  
A DIVISION OF METRICON

301 Blewett Road, Mount Waverley, VIC, 3149  
P.O. Box 857, Mount Waverley, VIC, 3149

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Tel: 1300 766 773  
www.metriconhomes.com.au

PROPOSAL:  
**27 No. DWELLING  
DEVELOPMENT**

DRAWING:  
**ELEVATIONS**

DATE:  
02/11/2023

DRAWN BY:  
2BW

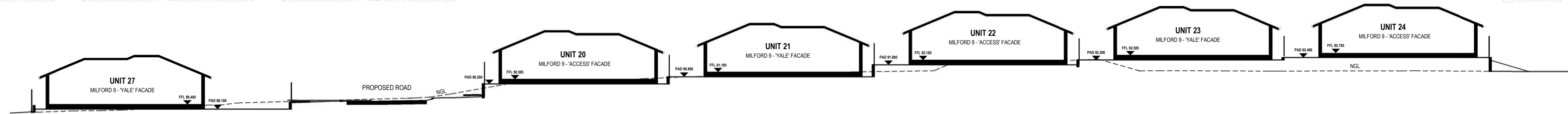
PROJECT NUMBER:  
TBC

SCALE:

PROPERTY ADDRESS:  
2 TOBRUK STREET, MORWELL

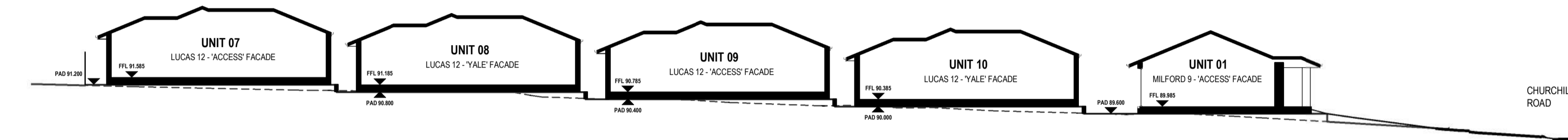
CLIENT:  
**COMMUNITY HOUSING LTD.**

SHEET No:  
04/12



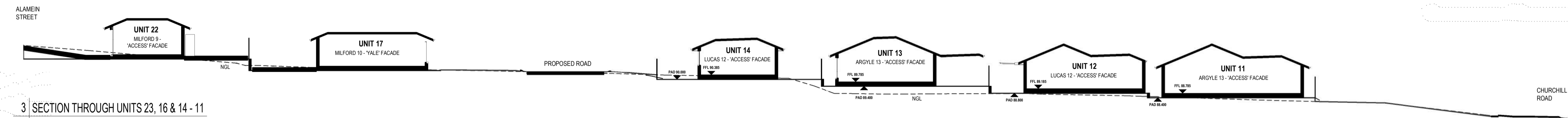
1 SECTION THROUGH UNITS 27 & 20 - 24

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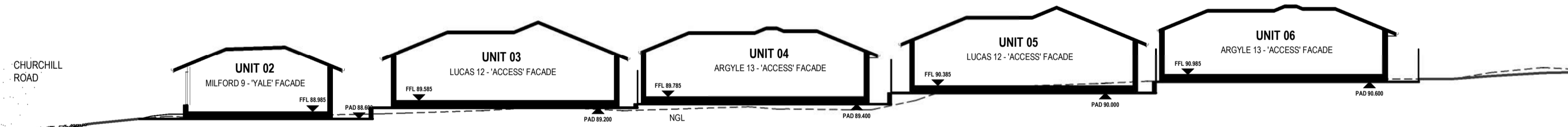
2 SECTION THROUGH UNITS 7 - 10 & 1

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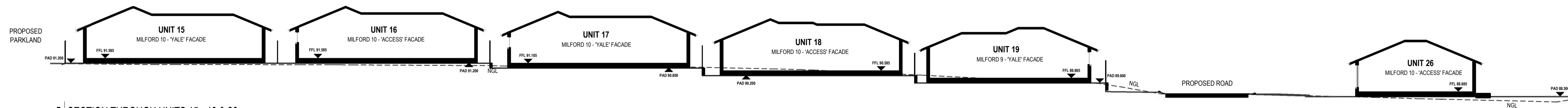
3 SECTION THROUGH UNITS 23, 16 & 14 - 11

1:200



4 SECTION THROUGH UNITS 2 - 6

1:200



5 SECTION THROUGH UNITS 15 - 19 & 26

1:200

IMPORTANT NOTES:

13	13/02/24	EX. FENCE NOTES REMOVED FROM SITE PLAN / 3m VEHICLE CROSSING NOMINATED SITE PLAN	2BW
12	06/02/24	OVERALL BUILDING HEIGHT TO AND DOMINATED ON ALL DWELLINGS (ELEVATIONS) / ALL DWELLINGS COMPLY WITH LHA SILVER NOTE ADDED TO SITE PLAN	2BW
11	13/01/24	ALL TREES TO BE DEMONSTRATED / LANDSCAPING CAPACITY TREES IN FRONT BACKS AND PROPOSED NATURE STRIPS INDICATIVE TO MATCH LANDSCAPE PLANS	2BW
10	21/12/23	PROPOSED REAR BOUNDARIES BETWEEN UNITS 3 & 4 & 7 & 10 HAVE BEEN MOVED WEST / PARKLAND FOOTPATH ACCESS REVISED / CORNER SPEAK BOUNDARY ON LOT 24 REVISED	2BW
9	08/12/23	PROPOSED ROAD PERPENDICULAR REVISED AS ALAMEIN AND CHURCHILL ENERGY / ALL FOOTPATHS REVISED TO SURF / TREE 2 NOW SHOWN AS TO BE REMOVED / LOT 20, 21, 24 & 27	2BW
8	02/11/23	PROPOSED PROPERTY BOUNDARIES MOVED 4.8m WEST / UNITS 3 & 1, 1 & 14 ROTATED TO SUIT NEW ROAD ANGLE / ALL VEHICLE CROSSINGS NOW PERPENDICULAR TO ROADS	2BW
7	24/10/23	SITE LEGEND REVISED / FOOTPATHS MOVED SIDE NOTES / F.O.S. REVISED TO 3% SLS	2BW
6	24/10/23	PLANNING COMMENTS ADDRESSED	2BW
5	11/10/23	PLANNING COMMENTS ADDRESSED / ELEVATIONS ADDED / MATERIALS LISTING ADDED	2BW
4	03/10/23	UNITS 21 - 24 AMBROSED FOR BETTER SOLAR ORIENTATION / CLIENT COMMENTS ADDED	2BW
3	30/09/23	SHADOW DIAGRAMS ADDED	2BW
2	25/08/23	FEASIBILITY CONCEPT REVISION / PLANNING COMMENTS ADDRESSED	2BW
1	24/08/22	INITIAL FEASIBILITY APPROVED	2BW

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PROPOSAL:  
**27 No. DWELLING  
DEVELOPMENT**

DRAWING:  
**SITE SECTIONS**

DATE:  
02/11/2023

DRAWN BY:  
2BW

PROJECT NUMBER:

TBC

SCALE:

PROPERTY ADDRESS:  
2 TOBRUK STREET, MORWELL

CLIENT:  
COMMUNITY HOUSING LTD.

SHEET No:  
05/12

ALAMEIN STREET



IMPORTANT NOTES:

13	13/02/24	EX. FENCE NOTES REMOVED FROM SITE PLAN / 3m VEHICLE CROSSING NOMINATED SITE PLAN	2BW
12	06/02/24	OVERALL BUILDING HEIGHT TO AND NOMINATED ON ALL DWELLINGS (ELEVATIONS) / ALL DWELLINGS COMPLY WITH LGA SILVER NOTE ADDED TO SITE PLAN	2BW
11	13/01/24	ALL TREES TO BE DEMOLISHED NOTED / LANDSCAPING CANOPY TREES IN FRONT SEPARATE AND PROPOSED NATIVE STRIPS INDICATIVE TO MATCH LANDSCAPE PLANS	2BW
10	21/12/23	PROPOSED REAR BOUNDARIES BETWEEN UNITS 3 & 4, 7 & 10 HAVE BEEN MOVED WEST / PARKLAND FOOTPATH ACCESS REVISED / CORNER SPAY BOUNDARY ON LOT 24 REVISED	2BW
9	06/12/23	PROPOSED ROAD PERPENDICULAR RADIOS REVISED AT ALAMEIN AND CHURCHILL ENDS / ALL FOOTPATHS REVISED TO SHIF / TREE 2 NOW SHOWN AS TO BE REMOVED / LOT 20, 26, 28 & 27	2BW
8	06/11/23	PROPOSED PROPERTY BOUNDARIES MOVED 4.8m WEST / UNITS 3 & 4, 11 & 14 ROTATED TO SET NEW ROAD ANGLE / ALL VEHICLE CROSSINGS NOW PERPENDICULAR TO ROADS	2BW
7	24/10/23	SITE LEGEND REVISED / FOOTPATHS NOTED / DIMED SIZE NOTED / FOOTPATHS REVISED TO 3M WLS	2BW
6	11/10/23	PLANNING COMMENTS ADDRESSED / ELEVATIONS ADDED / MATERIALS LISTING ADDED	2BW
5	03/10/23	UNITS 21 - 24 AMBRORED FOR BETTER SOLAR ORIENTATION / CLIENT COMMENTS ADDED	2BW
4	30/08/23	SHADOW DIAGRAMS ADDED	2BW
3	25/08/23	FEASIBILITY CONCEPT REVISIONS / PLANNERS COMMENTS ADDRESSED	2BW
2	24/08/22	INITIAL FEASIBILITY APPROVED	2BW



PROPOSAL:  
**27 No. DWELLING DEVELOPMENT**

DRAWING: <b>ROOF PLAN / SHADOW DIAGRAM 9AM - 22 SEPT</b>	PROJECT NUMBER: <b>TBC</b>
DATE: <b>02/11/2023</b>	DRAWN BY: <b>2BW</b>

SCALE: <b>SCALE: 1:300 A1</b>
----------------------------------

PROPERTY ADDRESS: <b>2 TOBRUK STREET, MORWELL</b>	SHEET No: <b>06/12</b>
CLIENT: <b>COMMUNITY HOUSING LTD.</b>	



ALAMEIN STREET



IMPORTANT NOTES:

13	12/02/24	EX. FENCE NOTES REMOVED FROM SITE PLAN / 3m VEHICLE CROSSING NOMINATED SITE PLAN	2BW
12	09/02/24	OVERALL BUILDING HEIGHT TO AND NOMINATED ON ALL DWELLINGS (ELEVATIONS) / ALL DWELLINGS COMPLY WITH LGA SILVER NOTE ADDED TO SITE PLAN	2BW
11	13/01/24	ALL TREES TO BE REMOVED NOTED / LANDSCAPING CANOPY TREES IN FRONT SEBACKS AND PROPOSED NATIVE STRIPS INDICATIVE TO MATCH LANDSCAPE PLANS	2BW
10	21/12/23	PROPOSED REAR BOUNDARIES BETWEEN UNITS 3 & 4 & 7 & 10 HAVE BEEN MOVED WEST / PARKLAND FOOTPATH ACCESS REVISED / CORNER SPAY BOUNDARY ON LOT 24 REVISED	2BW
9	08/12/23	PROPOSED ROAD INTERSECTIONS REVISED AT ALAMEIN AND CHURCHILL ENDS / ALL FOOTPATHS REVISED TO SHIF / TREE 2 NOW SHOWN AS TO BE REMOVED / LOT 20, 21, 24 & 27	2BW
8	02/11/23	PROPOSED PROPERTY BOUNDARIES MOVED 4.8m WEST / UNITS 3 & 4, 11 & 14 ROTATED TO SET NEW ROAD ANGLE / ALL VEHICLE CROSSINGS NOW PERPENDICULAR TO ROADS	2BW
7	24/10/23	SITE LEGEND REVISED / FOOTPATHS NOTED / DIMED SIZE NOTED / P.D.S. REVISED TO 3/4 DLS	2BW
6	11/10/23	PLANNING COMMENTS ADDRESSED / ELEVATIONS ADDED / MATERIALS LISTING ADDED	2BW
5	03/10/23	UNITS 21 - 24 AMBRORED FOR BETTER SOLAR ORIENTATION / CLIENT COMMENTS ADDED	2BW
4	30/09/23	SHADOW DIAGRAMS ADDED	2BW
3	25/08/23	FEASIBILITY CONCEPT RESEARCH / PLANNERS COMMENTS ADDRESSED	2BW
2	24/08/22	INITIAL FEASIBILITY APPROVED	2BW



PROPOSAL:  
**27 No. DWELLING DEVELOPMENT**

DRAWING: <b>ROOF PLAN / SHADOW DIAGRAM 12PM - 22 SEPT</b>
DATE: 02/11/2023
DRAWN BY: 2BW

PROJECT NUMBER: TBC
SCALE: SCALE: 1:300 A1

PROPERTY ADDRESS: 2 TOBRUK STREET, MORWELL
CLIENT: COMMUNITY HOUSING LTD.
SHEET No: 07/12

ALAMEIN STREET



IMPORTANT NOTES:

- |    |          |  |     |
|----|----------|--|-----|
| 13 | 12/02/24 | EX. FENCE NOTES REMOVED FROM SITE PLAN / 3m VEHICLE CROSSING NOMINATED SITE PLAN   | 2BW |
| 12 | 06/02/24 | OVERALL BUILDING HEIGHT TO AND NOMINATED ON ALL DWELLINGS (ELEVATIONS) / ALL DWELLINGS COMPLY WITH LGA SILVER NOTE ADDED TO SITE PLAN                              | 2BW |
| 11 | 13/01/24 | ALL TREES TO BE REMOVED NOTED / LANDSCAPING CANOPY TREES IN FRONT SEBACKS AND PROPOSED NATIVE STRIPS INDICATIVE TO MATCH LANDSCAPE PLANS                           | 2BW |
| 10 | 21/12/23 | PROPOSED REAR BOUNDARIES BETWEEN UNITS 3 & 4, 7 & 10 HAVE BEEN MOVED WEST / PARKLAND FOOTPATH ACCESS REVISED / CORNER SPAY BOUNDARY ON LOT 24 REVISED              | 2BW |
| 9  | 08/12/23 | PROPOSED ROAD PERPENDICULAR RADIOS REVISED AT ALAMEIN AND CHURCHILL ENDS / ALL FOOTPATHS REVISED TO SHIF / TREE 2 NOW SHOWN AS TO BE REMOVED / LOT 20, 25, 26 & 27 | 2BW |
| 8  | 02/11/23 | PROPOSED PROPERTY BOUNDARIES MOVED 4.8m WEST / UNITS 3 & 4, 11 & 14 ROTATED TO SET NEW ROAD ANGLE / ALL VEHICLE CROSSINGS NOW PERPENDICULAR TO ROADS               | 2BW |
| 7  | 24/10/23 | SITE LEGEND REVISED / FOOTPATHS MOVED / DIMED SIZE NOTED / FOOTPATHS REVISED TO 3M WLS   | 2BW |
| 6  | 11/10/23 | PLANNING COMMENTS ADDRESSED / ELEVATIONS ADDED / MATERIALS LISTING ADDED   | 2BW |
| 5  | 03/10/23 | UNITS 21 - 24 AMBROOSED FOR BETTER SOLAR ORIENTATION / CLIENT COMMENTS ADDED   | 2BW |
| 4  | 30/08/23 | SHADOW DIAGRAMS ADDED  | 2BW |
| 3  | 25/08/23 | FEASIBILITY CONCEPT REVISIONS / PLANNERS COMMENTS ADDRESSED  | 2BW |
| 2  | 24/08/22 | INITIAL FEASIBILITY APPROVED   | 2BW |



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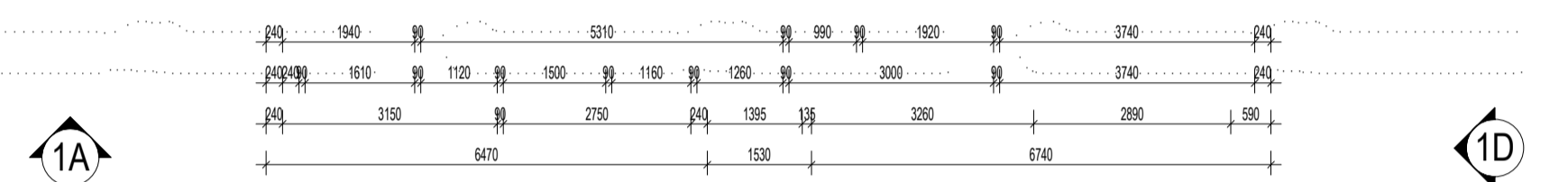
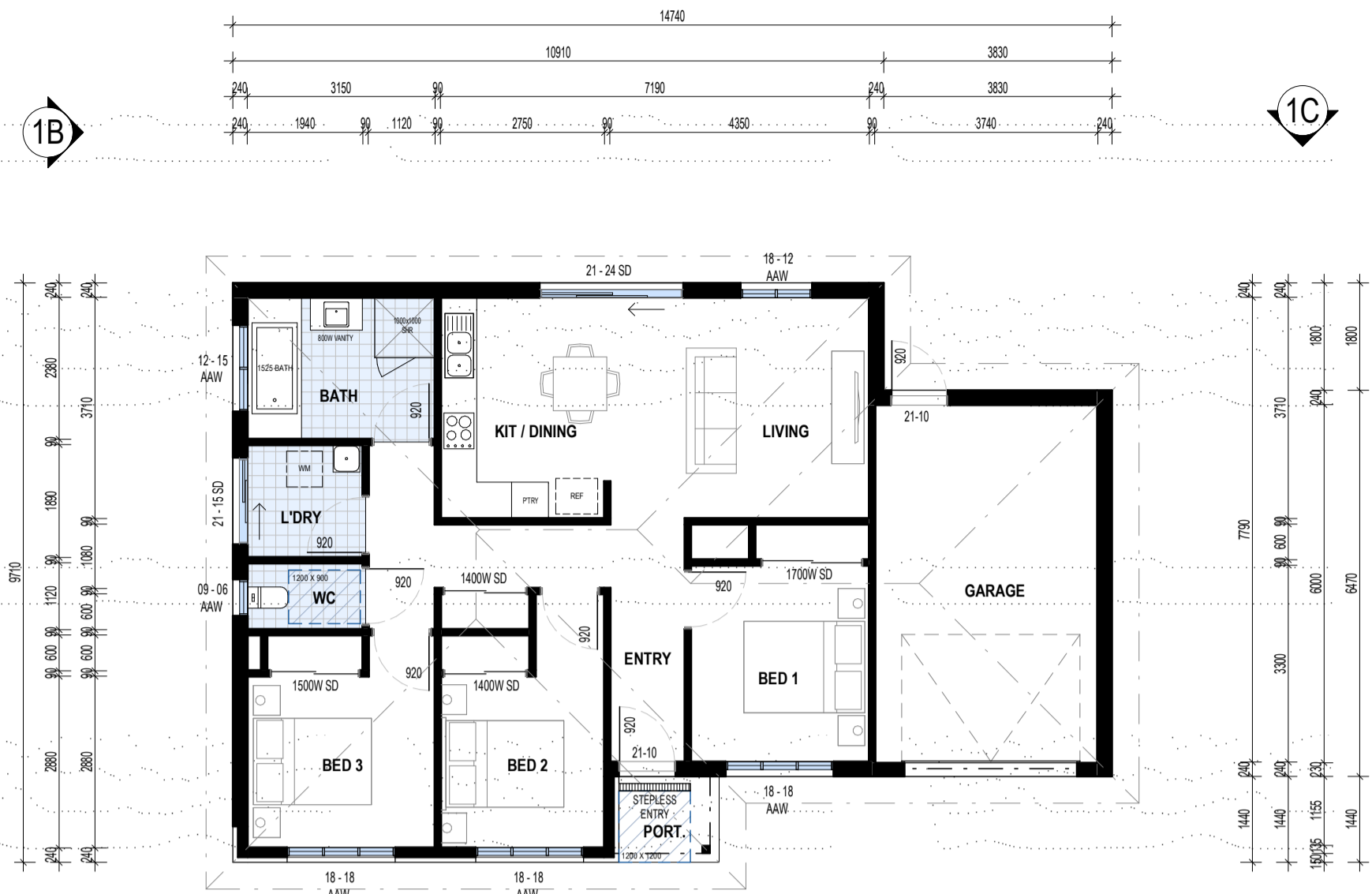
PROPOSAL:  
**27 No. DWELLING  
DEVELOPMENT**

DRAWING: <b>ROOF PLAN / SHADOW DIAGRAM 3PM - 22 SEPT</b>	
DATE: 02/11/2023	DRAWN BY: 2BW

PROJECT NUMBER: TBC	SCALE: SCALE: 1:300 A1
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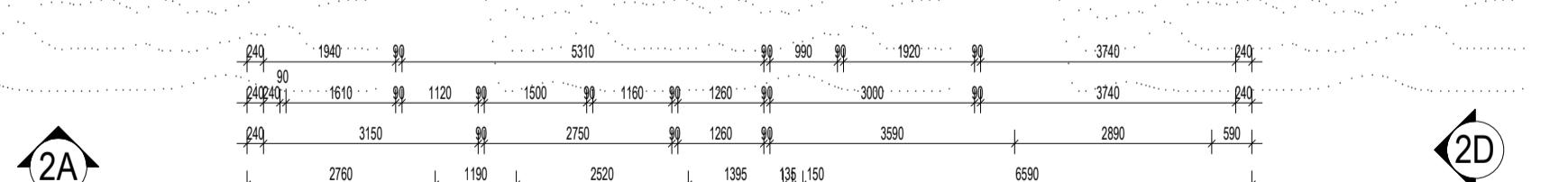
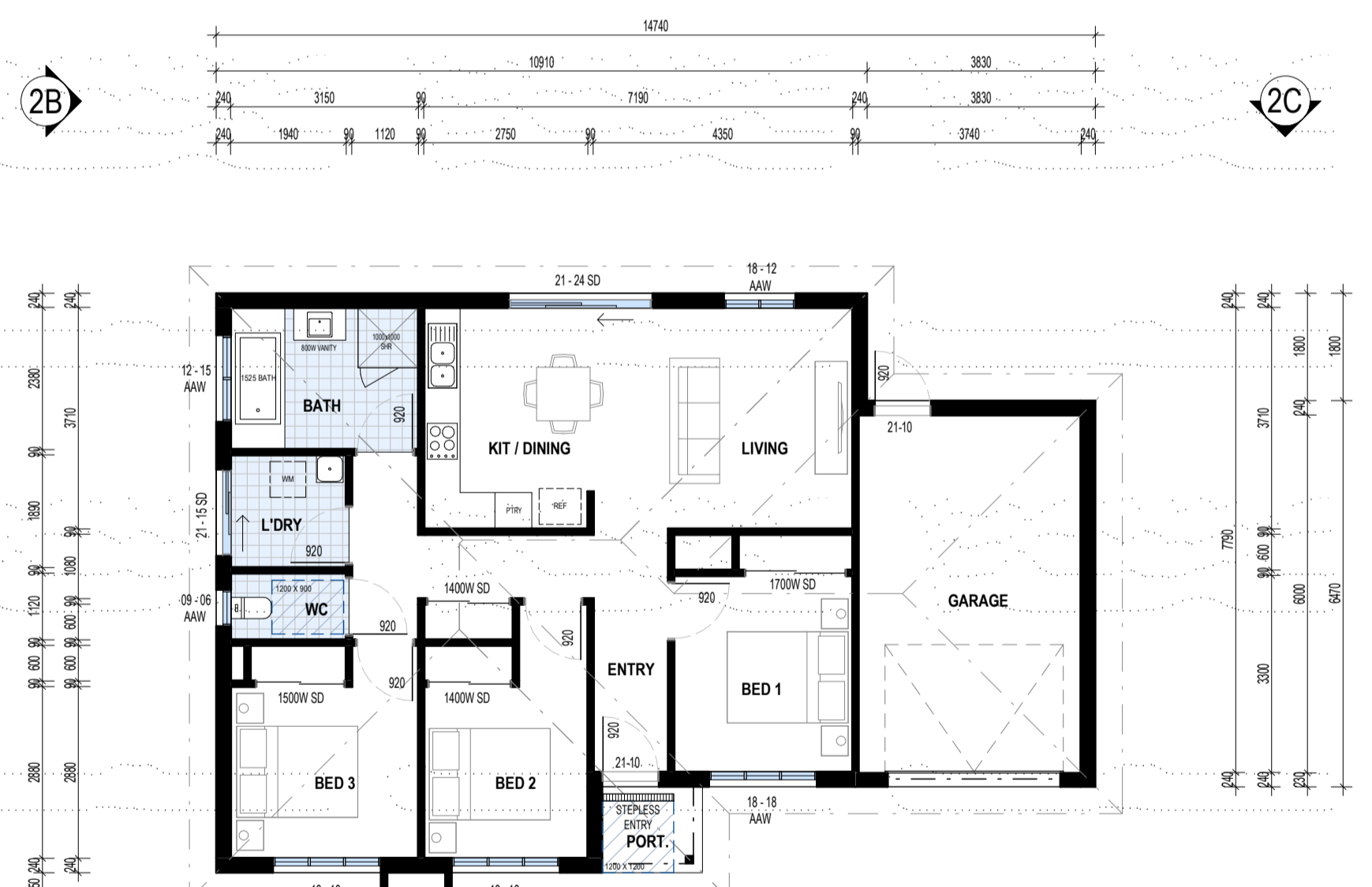
PROPERTY ADDRESS: 2 TOBRUK STREET, MORWELL	CLIENT: COMMUNITY HOUSING LTD.
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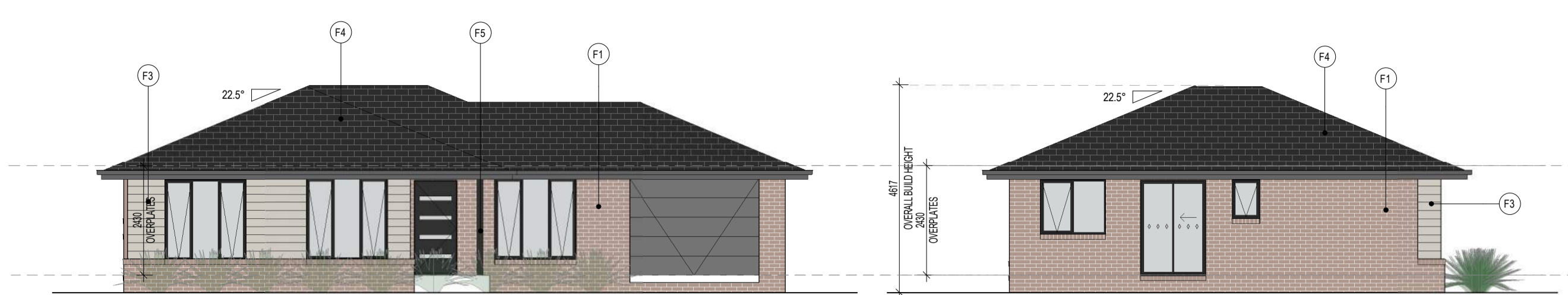
1 MILFORD 10 'YALE' FACADE - FLOOR PLAN  
1:100

MILFORD 10 - YALE	
NAME	m <sup>2</sup>
GROUND FLOOR	98.61 m <sup>2</sup>
GARAGE	25.72 m <sup>2</sup>
PORTICO	2.42 m <sup>2</sup>
TOTAL	126.74 m <sup>2</sup>



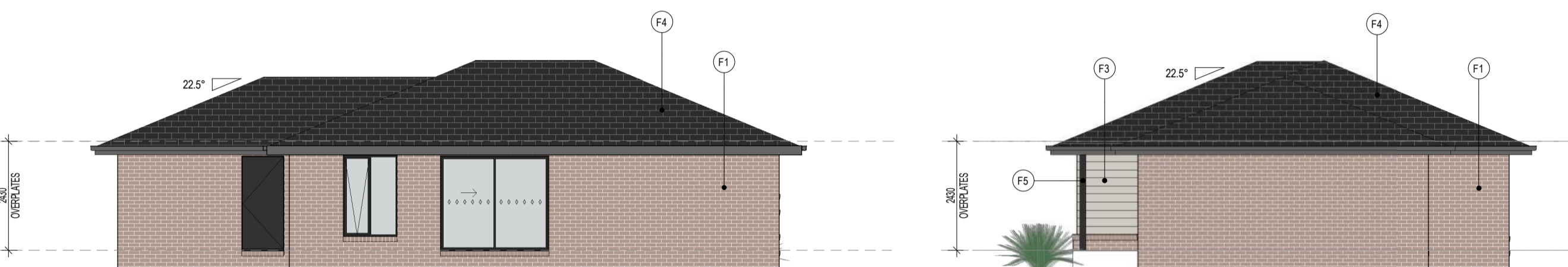
2 MILFORD 10 'ACCESS' FACADE - FLOOR PLAN  
1:100

MILFORD 10 - ACCESS	
NAME	m <sup>2</sup>
GROUND FLOOR	99.14 m <sup>2</sup>
GARAGE	25.72 m <sup>2</sup>
PORTICO	2.42 m <sup>2</sup>
TOTAL	127.28 m <sup>2</sup>



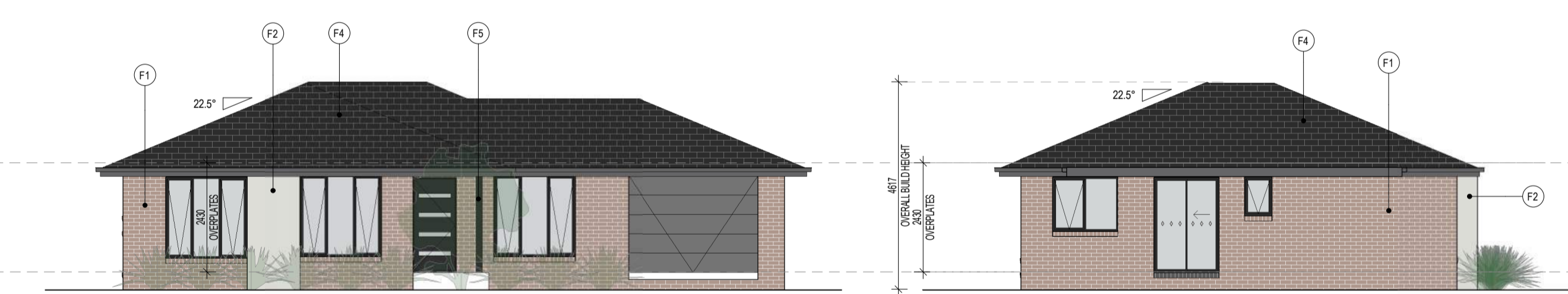
1A MILFORD 10 'YALE' FACADE - FRONT ELEVATION  
1:100

1B MILFORD 10 'YALE' FACADE - SIDE ELEVATION  
1:100



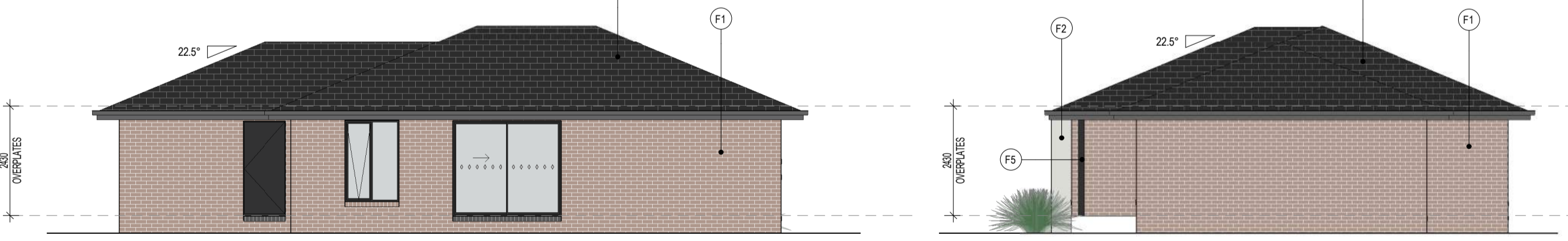
1C MILFORD 10 'YALE' FACADE - REAR ELEVATION  
1:100

1D MILFORD 10 'YALE' FACADE - SIDE ELEVATION 2  
1:100



2A MILFORD 10 'ACCESS' FACADE - FRONT ELEVATION  
1:100

2B MILFORD 10 'ACCESS' FACADE - SIDE ELEVATION  
1:100



2C MILFORD 10 'ACCESS' FACADE - REAR ELEVATION  
1:100

2D MILFORD 10 'ACCESS' FACADE - SIDE ELEVATION 2  
1:100



MATERIALS LEGEND	
<b>EXTERNAL FINISHES:</b>	
F1	FACE BRICKWORK
F2	RENDERED BRICKWORK
F3	FC 'LINEA' CLADDING
F4	CONCRETE ROOF TILES
F5	TIMBER POST
<b>COLOUR SCHEME 1:</b>	
BRICKWORK - AUSTRAL OASIS	RENDER & EXTERNAL PAINTED SURFACES - DULUX PAVING STONE
PAINTED FC 'LINEA' CLADDING - DULUX PAVING STONE	ROOF TILES - CURVED PROFILE SMOKE
<b>COLOUR SCHEME 2:</b>	
BRICKWORK - PGM KURRAJONG	RENDER & EXTERNAL PAINTED SURFACES - DULUX KAHILIA MILK
PAINTED FC 'LINEA' CLADDING - DULUX KAHILIA MILK	ROOF TILES - CURVED PROFILE SMOKE



IMPORTANT NOTES:

20/02/2024 10:50:51 AM  
Document Set ID: 2641236  
Version: 1, Version Date: 15/05/2024

13	13/02/24	EX. FENCE NOTES REMOVED FROM SITE PLAN / 3m VEHICLE CROSSING NOMINATED SITE PLAN	2BW
12	09/02/24	OVERALL BUILDING HEIGHT TO AND NOMINATED ON ALL DWELLINGS (ELEVATIONS) / ALL DWELLINGS COMPLY WITH LIA SILVER NOTE ADDED TO SITE PLAN	2BW
11	13/01/24	ALL TREES TO BE REMOVED NOTED / LANDSCAPING CANOPY TREES IN FRONT SEPARATE AND PROPOSED NATURE STRIPS INDICATIVE TO MATCH LANDSCAPE PLANS	2BW
10	21/12/23	PROPOSED REAR BOUNDARIES BETWEEN UNITS 3 & 4 & 7, 10 HAVE BEEN MOVED 800mm WEST / PARKLAND FOOTPATH ACCESS REVISED / CORNER SEALY BOUNDARY ON LOT 24 REVISED	2BW
9	08/12/23	PROPOSED ROAD INTERSECTIONS REVISED / AL-MANARA CHURCH ENTRY / ALL FOOTPATHS REVISED TO SHIF / TREE 2 NOW SHOWN AS TO BE REMOVED / LOT 20, 21, 24 & 27	2BW
8	06/11/23	PROPOSED PROPERTY BOUNDARIES MOVED 400mm WEST / UNITS 3 & 4, 1, 1, 1, 4 ROTATED TO SET NEW ROAD ANGLE / ALL VEHICLE CROSSINGS NOW PERPENDICULAR TO ROADS	2BW
7	24/10/23	50% LANDING REVISED / FOOTPATHS MOVED / DIMED SIZE NOTED / P.O.S. REVISED TO 3.0x3.5	2BW
6	24/10/23	PLANNING COMMENTS ADDRESSED	2BW
5	03/10/23	PLANNING COMMENTS ADDRESSED / ELEVATIONS ADDED / MATERIALS LISTING ADDED	2BW
4	30/09/23	UNITS 21 - 24 MARKED FOR BETTER SOLAR ORIENTATION / CLIENT COMMENTS ADDED	2BW
3	26/08/23	SHADOW DIAGRAMS ADDED	2BW
2	26/08/23	FEASIBILITY CONCEPT REDESIGNED / PLANNERS COMMENTS ADDRESSED	2BW
1	24/08/22	INITIAL FEASIBILITY APPROVED	2BW

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PROPOSAL:  
**27 No. DWELLING DEVELOPMENT**

DRAWING:  
**MILFORD 10**

DATE:  
02/11/2023

DRAWN BY:  
2BW

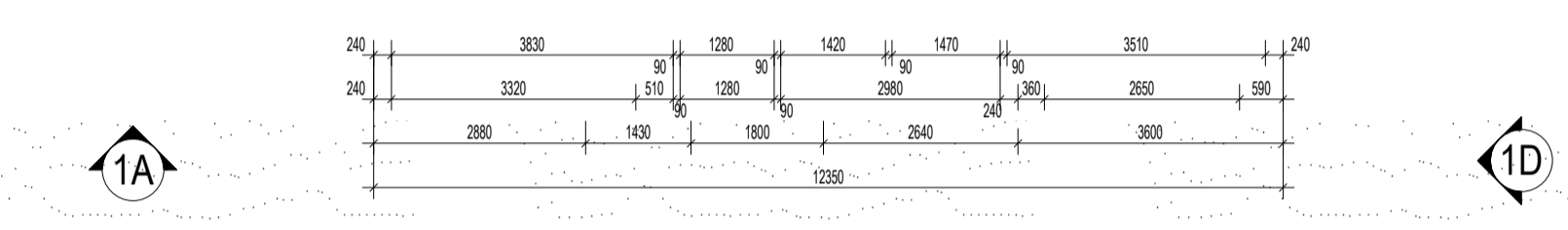
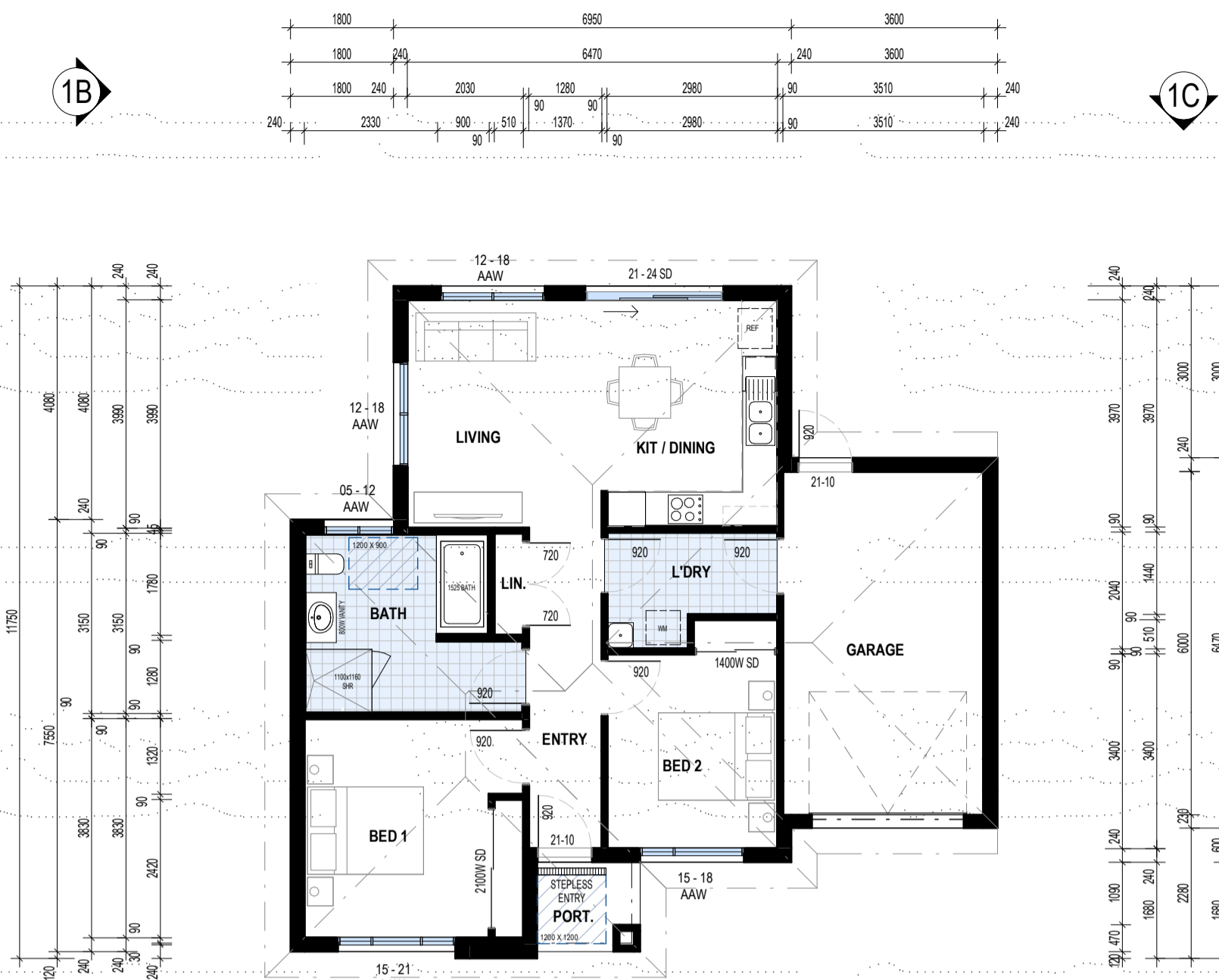
PROJECT NUMBER:  
TBC

SCALE:

PROPERTY ADDRESS:  
2 TOBRUK STREET, MORWELL

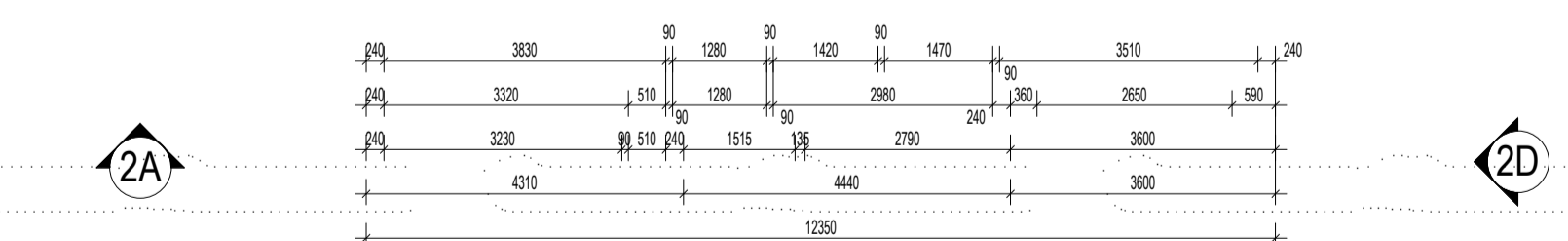
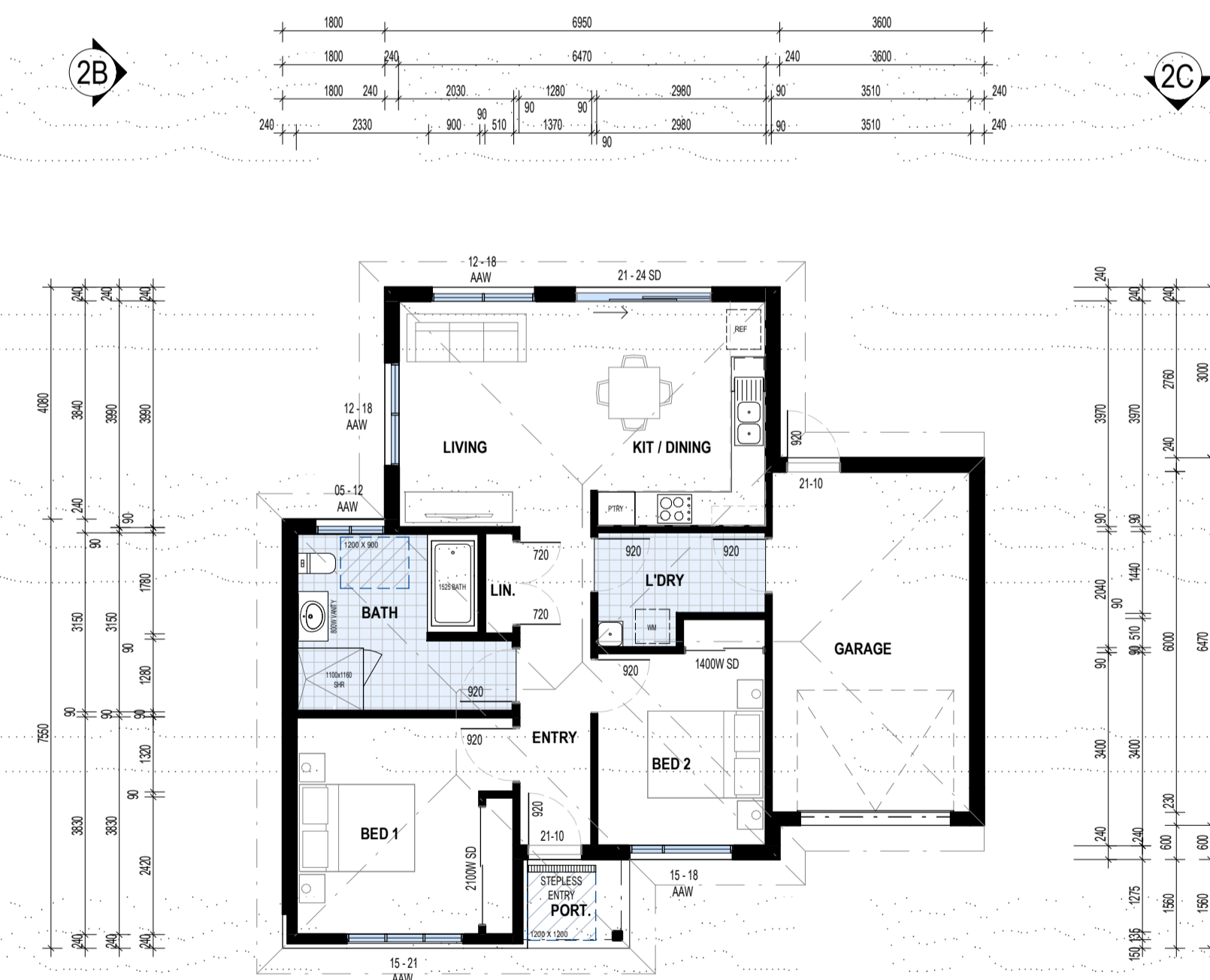
CLIENT:  
COMMUNITY HOUSING LTD.

SHEET No:  
10/12



11 LUCAS 12 'ACCESS' FACADE - FLOOR PLAN  
1:100

LUCAS 12 - ACCESS	
NAME	m <sup>2</sup>
GROUND FLOOR	86.69 m <sup>2</sup>
GARAGE	24.26 m <sup>2</sup>
PORTICO	2.81 m <sup>2</sup>
TOTAL	113.76 m <sup>2</sup>

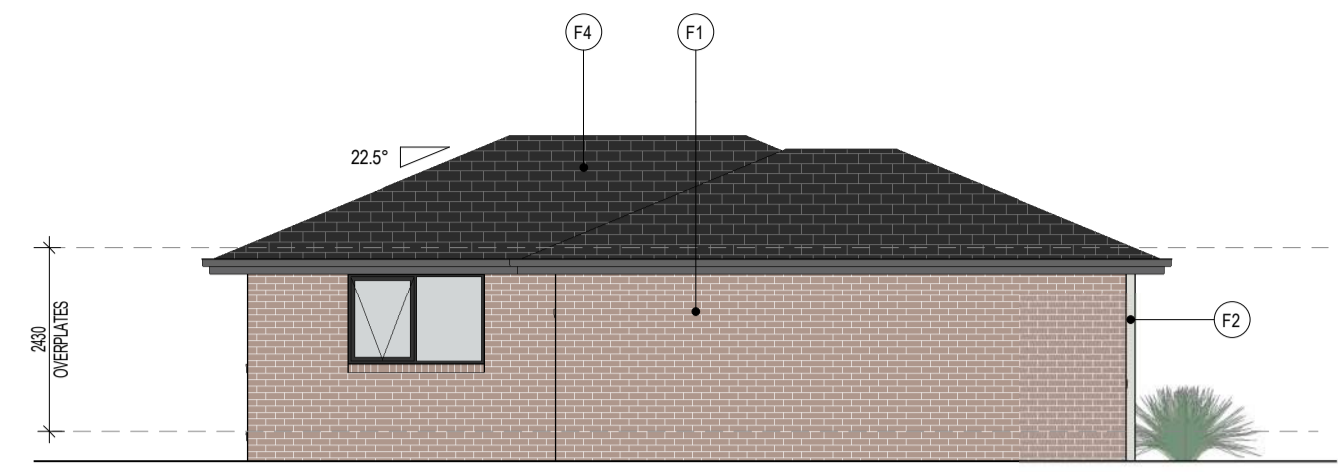


2 LUCAS 12 'YALE' FACADE - FLOOR PLAN  
1:100

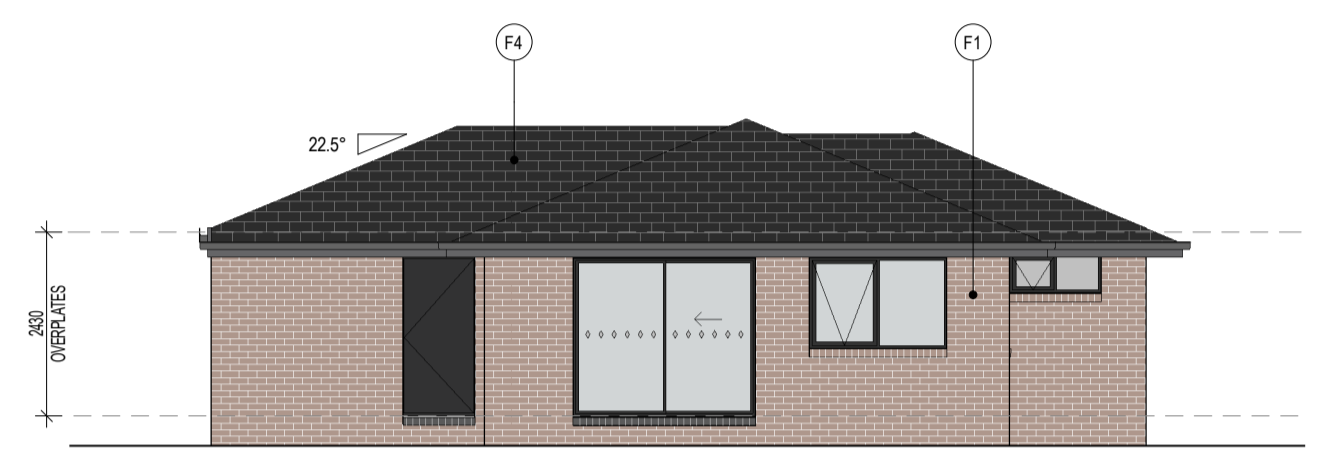
LUCAS 12 - YALE	
NAME	m <sup>2</sup>
GROUND FLOOR	86.52 m <sup>2</sup>
GARAGE	24.26 m <sup>2</sup>
PORTICO	2.81 m <sup>2</sup>
TOTAL	113.59 m <sup>2</sup>



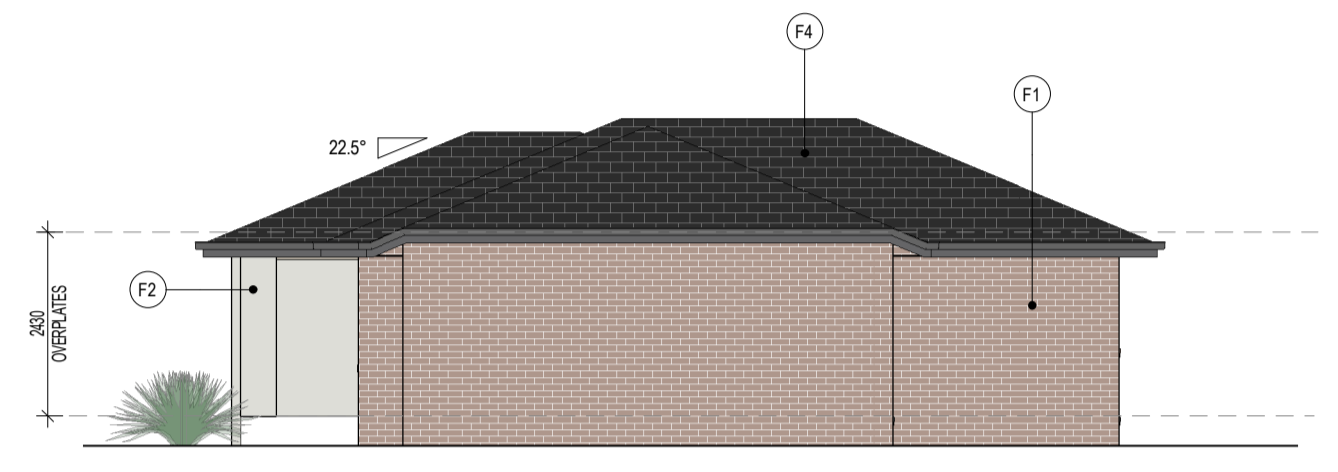
1A LUCAS 12 'ACCESS' FACADE - FRONT ELEVATION  
1:100



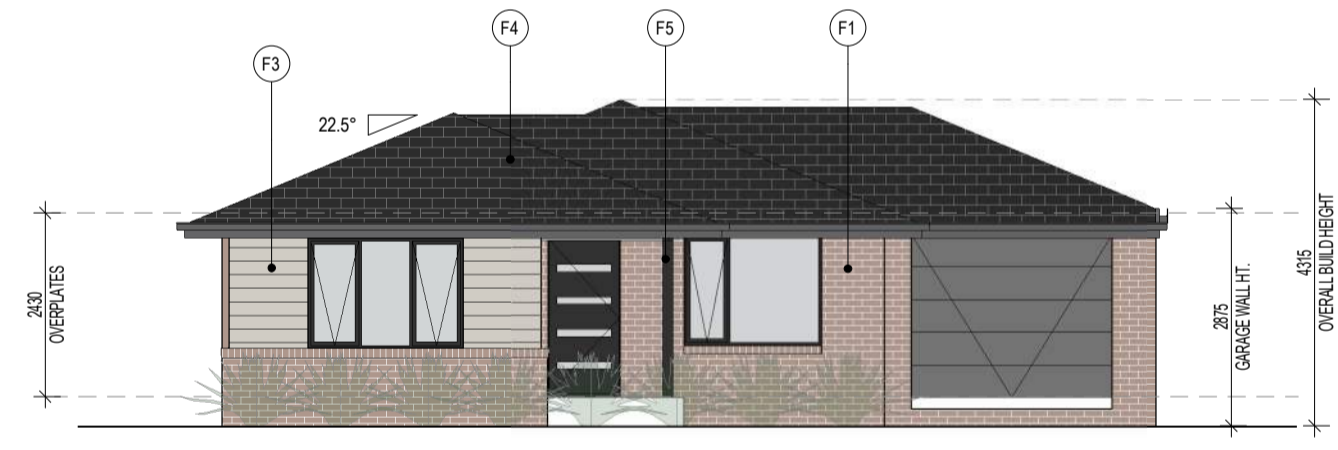
1B LUCAS 12 'ACCESS' FACADE - SIDE ELEVATION  
1:100



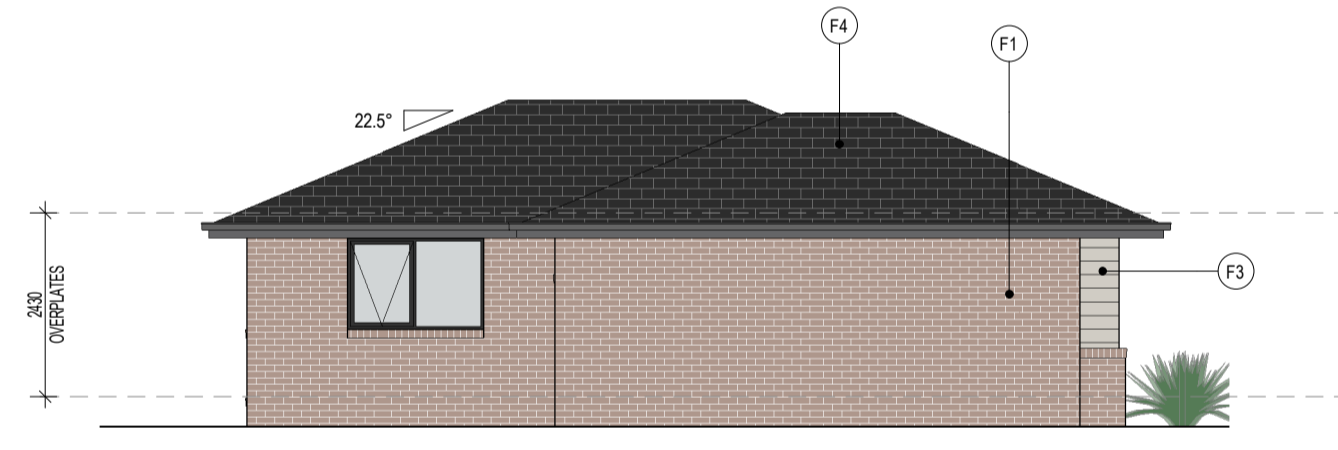
1C LUCAS 12 'ACCESS' FACADE - REAR ELEVATION  
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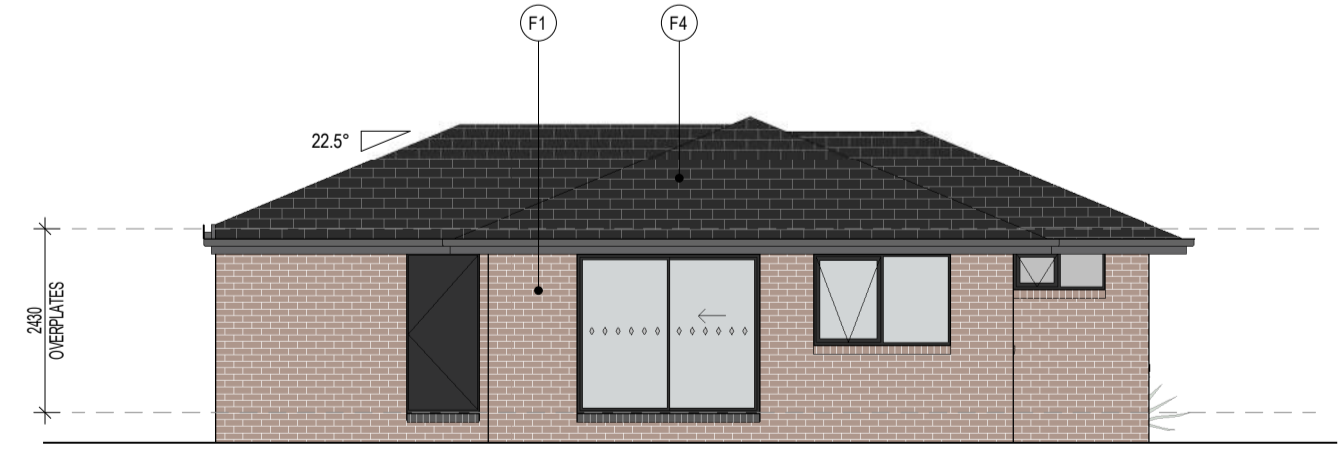
1D LUCAS 12 'ACCESS' FACADE - SIDE ELEVATION 2  
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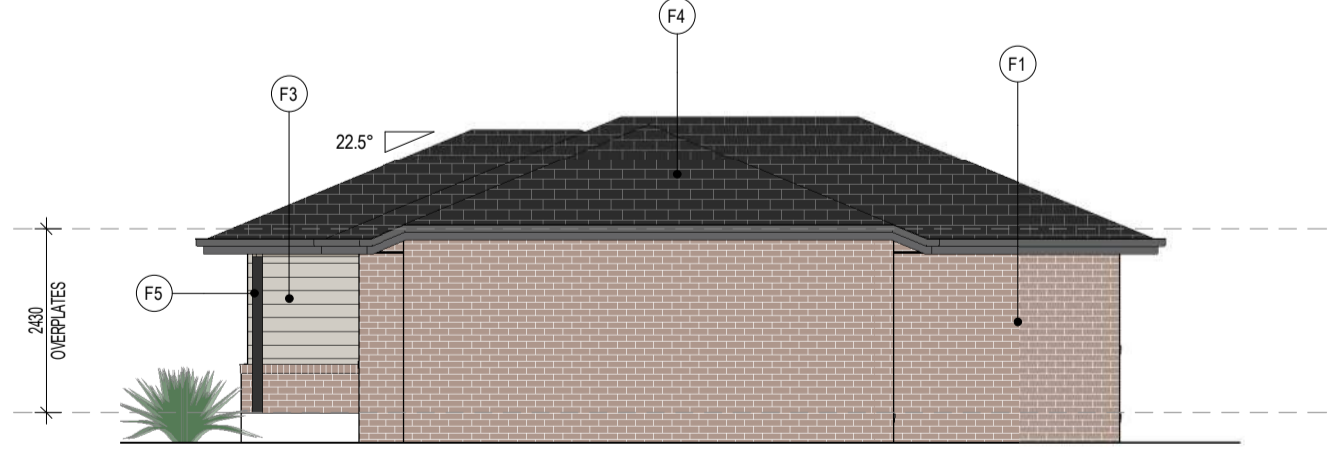
2A LUCAS 12 'YALE' FACADE - FRONT ELEVATION  
1:100



2B LUCAS 12 'YALE' FACADE - SIDE ELEVATION  
1:100



2C LUCAS 12 'YALE' FACADE - REAR ELEVATION  
1:100



2D LUCAS 12 'YALE' FACADE - SIDE ELEVATION 2  
1:100



### MATERIALS LEGEND

**EXTERNAL FINISHES:**

- F1 FACE BRICKWORK
- F2 RENDERED BRICKWORK
- F3 FC 'LINEA' CLADDING
- F4 CONCRETE ROOF TILES
- F5 TIMBER POST

**COLOUR SCHEME 1:**

- BRICKWORK - AUSTRAL OASIS
- RENDER & EXTERNAL PAINTED SURFACES - DULUX PAVING STONE
- PAINTED FC 'LINEA' CLADDING - DULUX PAVING STONE
- ROOF TILES - CURVED PROFILE SMOKE

**COLOUR SCHEME 2:**

- BRICKWORK - PIG KURRAJONG
- RENDER & EXTERNAL PAINTED SURFACES - DULUX KAHLIA MLK
- PAINTED FC 'LINEA' CLADDING - DULUX KAHLIA MLK
- ROOF TILES - CURVED PROFILE SMOKE



IMPORTANT NOTES:

- 13 13/02/24 EX. FENCE NOTES REMOVED FROM SITE PLAN / 3m VEHICLE CROSSING NOMINATED SITE PLAN
- 12 09/02/24 OVERALL BUILDING HEIGHT TO AND NOMINATED ON ALL DWELLINGS (ELEVATIONS) / ALL DWELLINGS COMPLY WITH LMA SILVER NOTE ADDED TO SITE PLAN
- 11 13/01/24 ALL TREES TO BE DEMOLISHED NOTED / LANDSCAPING CANOPY TREES IN FRONT REBRACKS AND PROPOSED NATURE STRIPS INDICATIVE TO MATCH LANDSCAPE PLANS
- 10 21/12/23 PROPOSED REAR BOUNDARIES BETWEEN UNITS 3 & 4 & 7 & 10 HAVE BEEN MOVED WITHIN WEST / PARKLAND FOOTPATH ACCESS REVISED / CORNER SEALY BOUNDARY ON LOT 24 REVISED
- 9 08/12/23 PROPOSED ROAD INTERFERENCES REVISED AT AL-MANARA CHURCH ENTRY / ALL FOOTPATHS REVISED TO SHIP / TREE 2 NOW SHOWN AS TO BE REMOVED / LOT 20, 21, 24 & 27
- 8 02/11/23 PROPOSED PROPERTY BOUNDARIES MOVED 4.8m WEST / UNITS 3 & 4, 1 & 11 & 14 ROTATED TO SUIT NEW ROAD ANGLE / ALL VEHICLE CROSSINGS NOW PERPENDICULAR TO ROADS
- 7 24/10/23 SITE LAYOUT REVISED / FOOTPATHS MOVED / SHED SIZE NOW 10.0m x 5.0m
- 6 24/10/23 PLANNING COMMENTS ADDRESSED
- 5 11/10/23 PLANNING COMMENTS ADDRESSED / ELEVATIONS ADDED / MATERIALS LISTING ADDED
- 4 03/10/23 UNITS 21 - 24 AMBROOK FOR BETTER SOLAR ORIENTATION / CLIENT COMMENTS ADDED
- 3 30/09/23 SHADOW DIAGRAMS ADDED
- 2 25/08/23 FEASIBILITY / CONCEPT REVISIONS / PLANNING COMMENTS ADDRESSED
- 1 24/08/22 INITIAL FEASIBILITY APPROVED

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PROPOSAL:  
**27 No. DWELLING DEVELOPMENT**

DRAWING:  
**LUCAS 12**

DATE: 02/11/2023

DRAWN BY:  
2BW

PROJECT NUMBER:  
TBC

SCALE:

PROPERTY ADDRESS:  
2 TOBRUK STREET, MORWELL

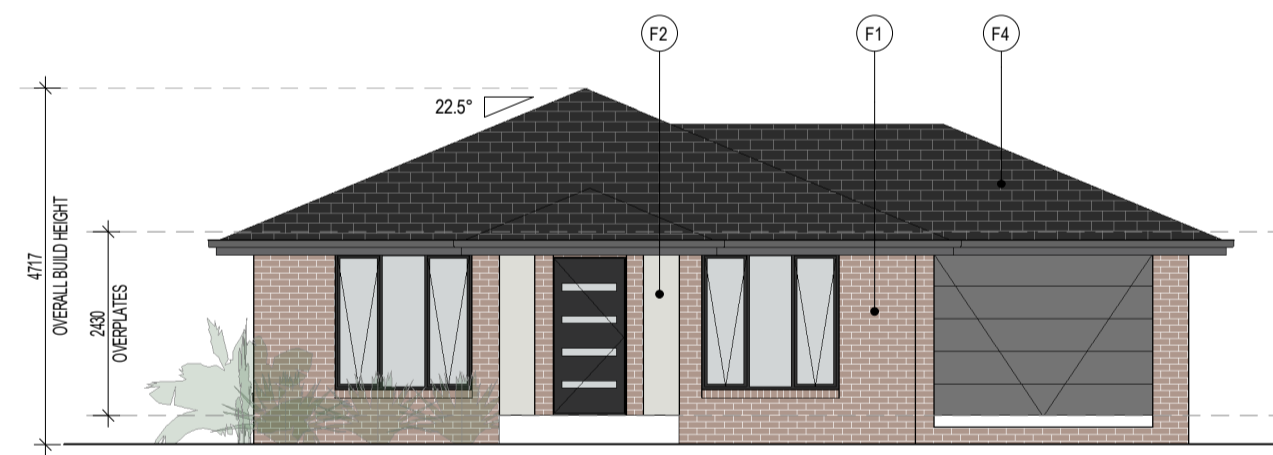
CLIENT:  
COMMUNITY HOUSING LTD.

SHEET No:  
11/12

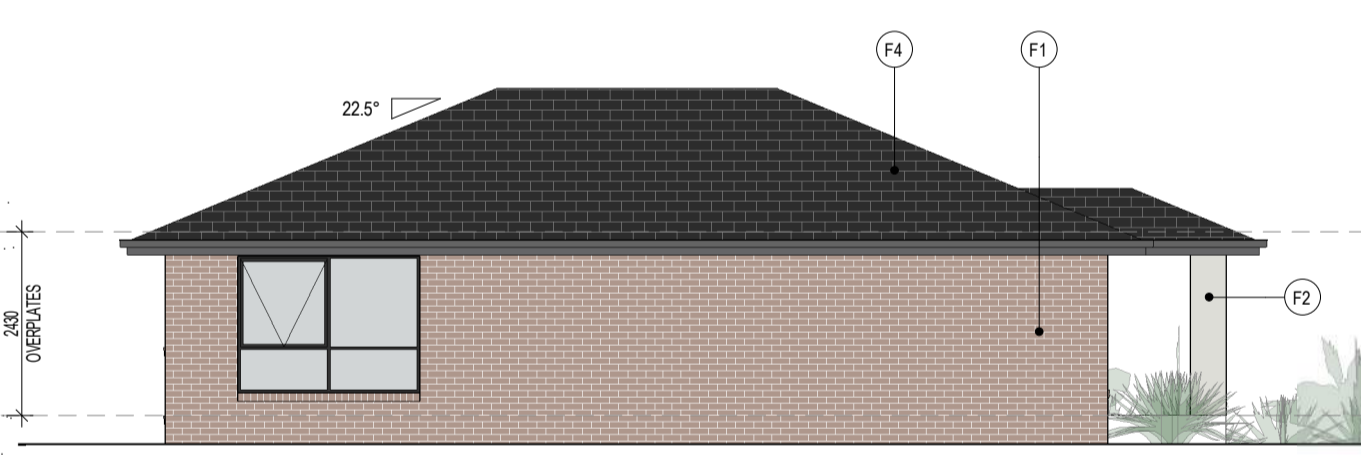


ARGYLE 13 - ACCESS	
NAME	m2
GROUND FLOOR	107.88 m <sup>2</sup>
GARAGE	24.19 m <sup>2</sup>
PORTICO	3.86 m <sup>2</sup>
TOTAL	136.13 m <sup>2</sup>

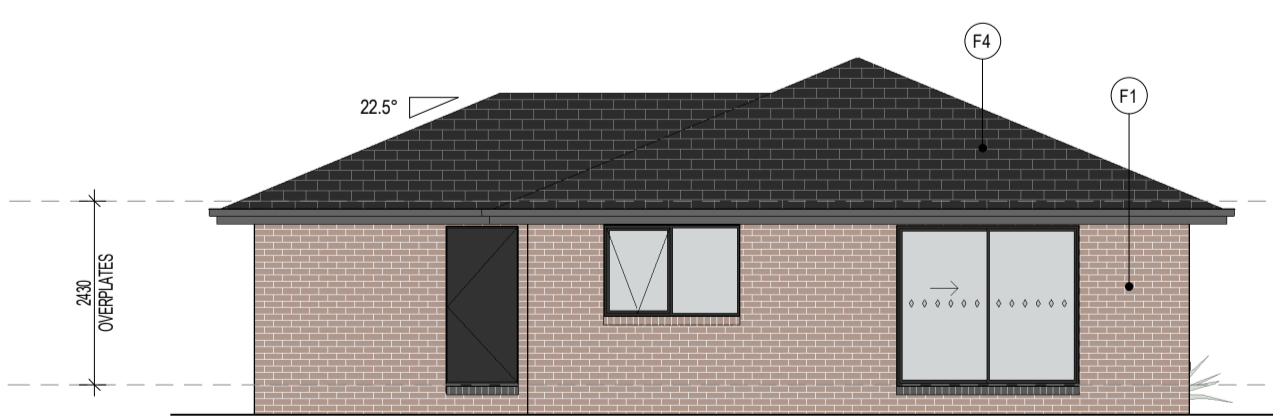
1 ARGYLE 13 'YALE' FACADE - FLOOR PLAN  
1:100



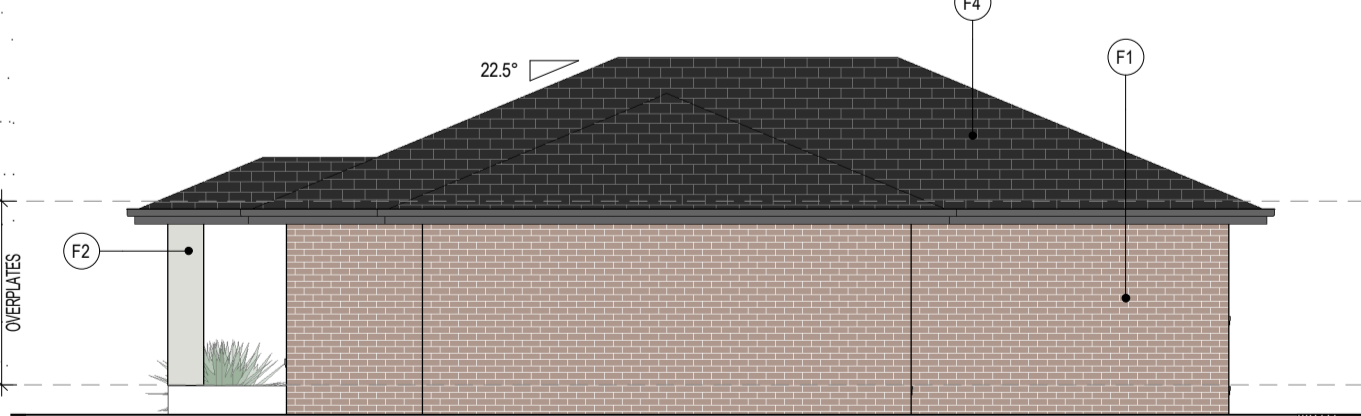
A ARGYLE 13 'ACCESS' FACADE - FRONT ELEVATION  
1:100



B ARGYLE 13 'ACCESS' FACADE - SIDE ELEVATION  
1:100



C ARGYLE 13 'ACCESS' FACADE - REAR ELEVATION  
1:100



D ARGYLE 13 'ACCESS' FACADE - SIDE ELEVATION 2  
1:100

MATERIALS LEGEND	
<b>EXTERNAL FINISHES:</b>	
F1 FACE BRICKWORK	F4 CONCRETE ROOF TILES
F2 RENDERED BRICKWORK	F5 TIMBER POST
F3 FC LINEA CLADDING	
<b>COLOUR SCHEME 1:</b>	
BRICKWORK - AUSTRAL OASIS	RENDER & EXTERNAL PAINTED SURFACES - DULUX PAWING STONE
PAINTED FC LINEA CLADDING - DULUX PAWING STONE	ROOF TILES - CURVED PROFILE SMOKE
<b>COLOUR SCHEME 2:</b>	
BRICKWORK - PGM KURRAJONG	RENDER & EXTERNAL PAINTED SURFACES - DULUX KAHUIA MILK
PAINTED FC LINEA CLADDING - DULUX KAHUIA MILK	ROOF TILES - CURVED PROFILE SMOKE

IMPORTANT NOTES:

13	13/02/24	EX FENCE NOTES REMOVED FROM SITE PLAN / 3m VEHICLE CROSSING NOMINATED SITE PLAN	28W
12	08/02/24	OVERALL BUILDING HEIGHT TO AND DOMINATED ON ALL DWELLINGS ELEVATIONS / ALL DWELLINGS COMPLY WITH LIA SILVER NOTE ADDED TO SITE PLAN	28W
11	13/01/24	ALL TREES TO BE REMOVED NOTED / LANDSCAPING CAPACITY TREES IN FRONT BACKS AND PROPOSED NATURE STRIPS INDICATIVE TO MATCH LANDSCAPE PLANS	28W
10	21/12/23	PROPOSED REAR BOUNDARIES BETWEEN UNITS 3 & 4 & 7, 10 HAVE BEEN MOVED 800mm WEST / PARKLAND FOOTPATH ACCESS REVISED / CORNER SPKAY BOUNDARY ON LOT 24 REVISED	28W
9	08/12/23	PROPOSED ROAD INTERFERENCES REVISED AT AL-AMIN AND CHURCHILL ENTRY / ALL FOOTPATH ACCESS REVISED TO SHIF / TREE 2 NOW SHOWN AS TO BE REMOVED / LOT 20, 21, 24 & 27	28W
8	02/11/23	PROPOSED PROPERTY BOUNDARIES MOVED 400mm WEST / UNITS 3 & 4, 11 & 14 ROTATED TO SUIT NEW ROAD ANGLE / ALL VEHICLE CROSSINGS NOW PERPENDICULAR TO ROADS	28W
7	24/10/23	SITE LEGEND REVISED / FLOOR FINISHES MOVED / DIMED SIZE NOTED / F.F.O.S. REVISED TO 3.0 A.S.L.	28W
6	24/10/23	PLANNING COMMENTS ADDRESSED	28W
5	05/10/23	PLANNING COMMENTS ADDRESSED / ELEVATIONS ADDED / MATERIALS LISTING ADDED	28W
4	30/08/23	UNITS 21 - 24 MARKED FOR BETTER SOLAR ORIENTATION / CLIENT COMMENTS ADDED	28W
3	25/08/23	SHADOW DIAGRAMS ADDED	28W
2	25/08/23	FEASIBILITY CONCEPT RESEARCH / PLANNERS COMMENTS ADDRESSED	28W
1	24/08/22	INITIAL FEASIBILITY APPROVED	28W



PROPOSAL:  
**27 No. DWELLING DEVELOPMENT**

DRAWING:

ARGYLE 13

DATE:  
02/11/2023

DRAWN BY:  
28W

PROJECT NUMBER:

TBC

SCALE:

PROPERTY ADDRESS:  
2 TOBRUK STREET, MORWELL

CLIENT:  
COMMUNITY HOUSING LTD.

SHEET No:

12/12

**Construction Management Plan – Site Setout and Proposed Environmental Protection Measures**

**CONSENT UNDER CLAUSE 52.20  
VPP2402817  
ENDORSED PLAN  
Sheet 1 of 2**

Project Name: 2 Tobruk Street Morwell

Date and Revision: 12/02/2024

<b>Management</b>	<b>Noise</b>	<b>Risk: Significant / Med / Low</b>
<b>Responsibilities:</b> Construction Manager: Paul Mammarella Emergency Contact 1: 0429 770 306	<b>Requirement:</b> EPA Victoria and Council requirements must be adhered to in relation to the level of noise and working hours, to ensure that residents and other applicable neighbours to the site are not disturbed unreasonably. The generation of noise must be minimised.	
<b>Inspections and Maintenance:</b> Weekly reviews of plan and action as required.	<b>Working Hours:</b> To be in accordance with Council Local Laws and Asset Protection Permit Conditions	
<b>Dust</b>	<b>Waste</b>	<b>Risk: Significant / Med / Low</b>
<b>Requirement:</b> Dust generation must be minimised to ensure there is no health risk or loss of amenity and prevented on dry, windy days.	<b>Requirement:</b> Litter and waste must be contained on site, before disposal in a responsible manner. Waste generation must be minimised.	
<b>Minimising Dust Generation:</b> Temp fencing and mesh if required, Minimal dust on a domestic site. Shade cloth installed to scaffolding to reduce dust particles and debris leaving the scaffolding. If required	<b>Requirement:</b> Litter and waste must be contained on site, before disposal in a responsible manner. Waste generation must be minimised.	
<b>Dust Suppression:</b> Wet saw used for masonry cutting	<b>Waste Storage and Disposal:</b> In site cage and removed upon requirements, Washings are maintained on site to designated point for absorption onto ground. No run-off into street drains.	
<b>Erosion and Sediment</b>	<b>Chemicals</b>	<b>Risk: Significant / Med / Low</b>
<b>Requirement:</b> Erosion and sediment must be managed in accordance with current best practice environmental management practices, to prevent sediment-laden water from entering any drainage system or natural waterway. Mud must not be transported on to nearby roads.	<b>Requirement:</b> Storage and spill management practices must be implemented to ensure that no environmental damage can result from the escape or spillage of chemicals or fuels.	
<b>Drainage Management:</b> Sediment barrier at base of temp fencing. Temporary filtered silt pits installed to capture ground water during construction	<b>Storage:</b> Lockable shipping container for storage of building materials	
<b>Sediment Traps:</b> Geotextile fabric sausage laid at stormwater drains for water to pass through without sediment into stormwater drains	<b>Spill Management:</b> N/A	
<b>Vehicle and Road Management:</b> <u>Site Access:</u> One access point and room for 2 cars only per unit <u>Cleaning Vehicles:</u> Scrape off excess material if required prior to existing site <u>Street Cleaning:</u> Physically scrape and sweep method	<b>Flora and Fauna Risk:</b>	<b>Significant / Med / Low</b>
	<b>Requirement:</b> All significant flora and fauna on and adjacent to the site must be protected.	
	<b>Yes / No. Details:</b> Temporary fencing and details set out in Arborist report.	
	<b>Archaeological/Heritage</b>	<b>Risk: Significant / Med / Low</b>
	<b>Requirement:</b> Places, sites and objects of archaeological or heritage significance must be protected.	
<b>Trees</b>	<b>Yes / No. Details:</b> No. None Identified	
To mitigate impacts on wildlife which may be present on site, any trees cut down will not be physically removed from site for a period of 24 hours		

Signed: *[Signature]* for  
**MINISTER FOR PLANNING**  
Date: 9 MAY 2024

**REFER TO 'CMP SITE PLAN' ATTACHED**






# 2 Tobruk Street, Morwell, Victoria.

PLANNING and ENVIRONMENT ACT  
LATROBE PLANNING SCHEME

CONSENT UNDER CLAUSE 52.20  
VPP2402817

ENDORSED PLAN

Sheet 1 of 26

Signed:  for  
MINISTER FOR PLANNING  
Date: 9 MAY 2024

Biodiversity Assessment: Basic Assessment Pathway for a proposed development



Report for  
Everyone, a division of Metricon  
October 2023



BeaconEcological

## ACKNOWLEDGEMENTS

Beacon Ecological would like to acknowledge the following for their contribution to the project:

- **James Carnell** (Everyone, a division of Metricon) for site and project information.



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ABN: 351 621 669 82

Report Version: FINAL V2 October 26, 2023

Field assessment: Luke Hynes

Report: Luke Hynes

Photography: Luke Hynes

Cover Photo: 2 Tobruk Street, Morwell, Victoria.

Beacon Ecological acknowledges and pays respect to the past, present and future Traditional Custodians and Elders of this nation, particularly the Braiakaulung people on whose land the field work was completed, and the continuation of cultural, spiritual and educational practices of Aboriginal and Torres Strait Islander peoples.

### **DISCLAIMER**

The author advises that the information presented in this report, including any management advice, has been prepared with all due diligence and care, and based on the best available knowledge and research.

However the author takes no responsibility for any loss, injury or financial damage resulting from the reliance and/or application of management advice provided in the report.



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## SUMMARY

Beacon Ecological was engaged by Everyone, a division of Metricon to undertake a Biodiversity Assessment for a proposed development at 2 Tobruk Street, Morwell, Victoria. Community housing is proposed to be constructed at the lot which is currently vacant and was previously the site of Morwell Primary School.

The proposed development is subject to *Clause 52.20 Victoria's Big Housing Build* of the Latrobe Planning Scheme, which facilitates projects under the Victorian Big Housing Build stimulus. Note that this project is exempt from *Clause 52.17 Native Vegetation* of the planning scheme.

This report provides permit application requirements for the basic assessment pathway as per *52.20-8 Native Vegetation requirements*.

## METHODOLOGY

A field assessment was undertaken within the study area by qualified botanist, Luke Hynes (*Vegetation Quality Assessment Accreditation Number: 077*) on 10 October 2023. Flora taxa and habitat types within the study area were noted and areas of native vegetation were mapped and assessed using the *Vegetation Quality Assessment* where appropriate.

## RESULTS

The field visit revealed that the property is dominated by predominantly introduced planted vegetation over a modified understorey with some scattered native groundcover species (Figure 2).

Previous and current records and habitat requirements for *Environmental Protection and Biodiversity Conservation Act 1999* listed species from state and federal databases were reviewed. Given the available habitat and amount of survey effort, it is considered unlikely that the proposed works will have a significant impact on any matters of national environmental significance.

## BIODIVERSITY ASSESSMENT

The current application is of the basic assessment pathway as scattered native vegetation providing less than 25% vegetative cover is proposed to be removed. No remnant native patches of vegetation or scattered trees were noted within the study area.

## FURTHER REQUIREMENTS AND RECOMMENDATIONS

Information about the native vegetation in accordance with the application requirements 1, 5 and 9 in Table 4 of the *Guidelines for removal, destruction or lopping of native vegetation* (DELWP 2017) must be provided to the satisfaction of the Secretary to the Department Energy, Environment and Climate Action (See Section 5 of this report). There are no offset requirements.

Recommendations to further avoid and minimise impacts to ecological values during and after the proposed works are detailed in Section 6.2.



# 1 INTRODUCTION

Beacon Ecological was engaged by Everyone, a division of Metricon to undertake a Biodiversity Assessment for a proposed development at 2 Tobruk Street, Morwell, Victoria. Community housing is proposed to be constructed at the lot which is currently vacant and was previously the site of Morwell Primary School.

The proposed development is subject to *Clause 52.20 Victoria's Big Housing Build* of the Latrobe Planning Scheme, which facilitates projects under the Victorian Big Housing Build stimulus. Note that this project is exempt from *Clause 52.17 Native Vegetation* of the planning scheme.

This report provides permit application requirements for the basic assessment pathway as per *52.20-8 Native Vegetation requirements*.

## 1.1 SCOPE OF WORKS

The following tasks were completed during the vegetation assessment:

**Background Literature Review:** Relevant documentation pertaining to the study area was reviewed.

**Vegetation Quality Assessment:** A qualified and experienced botanist traversed the site to determine the extent of native vegetation and other ecological values.

**Mapping:** A site plan, using aerial photography detailing the location of the proposed works areas and vegetation proposed for removal and retention has been prepared for inclusion in the report. The mapping also includes, site location, boundaries, area of removal (in hectares), and ecological values using aerial photography and GPS (if required).

**Report Production:** A report was prepared to detail the:

- Results of the field assessment.
- Calculations of native vegetation losses and offsets if required.
- Recommendations to protect and conserve ecological values within the site during each construction phase.

## 1.2 STUDY AREA

The study areas is located at 2 Tobruk Street, Morwell (Figure 1) and is an irregularly shaped block of approximately 1.4 hectares. The study area is dominated by introduced vegetation, generally slashed grasses with planted trees and shrubs located around the property boundary with some species recruiting into open areas. The topography slopes gently to the south and is bounded by Alamein Street to the north, Tobruk Street to the west, Churchill Road to the south and private residential properties to the east. The study area is located in a residential area and was previously used as a primary school which has recently been demolished.

The property is located within General Residential Zone (GRZ) of the Latrobe Shire Council planning scheme and is covered by a Design and Development Overlay (DDO11), (DEECA 2023a). The property is within the Gippsland Plain Bioregion and West Gippsland Catchment Management Authority Boundaries and mapped as Location 1 on the DEECA location risk mapping (DEECA 2023b).



## 2 METHODOLOGY

### 2.1 DATABASE REVIEW

The following databases were reviewed to obtain background information on the study area:

- **Nature Kit** for pre-1750 (pre - European settlement) and 2005 (extant) native vegetation modelling and significant flora and fauna species previously recorded within a five-kilometre radius of the study area (DEECA 2023a).
- **Victorian Biodiversity Atlas** for significant flora and fauna species previously recorded within a five-kilometre radius of the study area (DEECA 2023c).
- **Protected Matters Search Tool** for nationally significant ecological values that are predicted to occur within five kilometres of the study area (DCCEWA 2023).
- **Planning Schemes Online** for information regarding planning provision overlays and zones pertaining to native vegetation and ecological values within the study area (DEECA 2023b).

### 2.2 MAPPING AND OTHER LITERATURE

Relevant literature, such as Bioregional Ecological Vegetation Class (EVC) Benchmarks and national/state/local policies and legislation were also reviewed as part of the investigation (DEECA 2023a, DEECA 2023b). The following were also reviewed:

- *2 Tobruk Street, Morwell. Concept Proposal* (Everyone, a division of Metricon 2023).
- *2 Tobruk Street, Morwell. Preliminary Tree Survey* (Evergreen Tree Consulting 2023).

### 2.3 FIELD ASSESSMENT

A field assessment was undertaken within the study area by qualified botanist, Luke Hynes (*Vegetation Quality Assessment Accreditation Number: 077*) on 10 October 2023.

The area proposed to be impacted was traversed in order to:

- Note flora taxa naturally occurring. Plant taxonomy follows the Victorian Biodiversity Atlas (VBA) (DEECA 2023c).
- Note any habitat types and distribution.
- Map the extent of native vegetation and habitat present.
- Undertake a Vegetation Quality Assessment (VQA) within areas of native vegetation that meet the assessment criteria thresholds.

### 2.4 BIODIVERSITY ASSESSMENT

The Guidelines (DELWP 2017) are incorporated into the Victoria Planning Provisions and all planning schemes in Victoria. The purpose of the Guidelines is to set out and describe the application of Victoria's statewide policy in relation to assessing and compensating for the removal of native vegetation.

The three-step approach (avoid, minimise, offset native vegetation) is the key policy in relation to the removal of native vegetation to achieve no net loss to biodiversity. To determine extent of native vegetation, *remnant patch* or *scattered tree* are used as defined below:



**Patch**

A patch of d, native vegetation is:

- An area of vegetation where at least 25 per cent of the total perennial understorey plant cover is native, or
- Any area with three or more native canopy trees where the drip line of each tree touches the drip line of at least one other tree, forming a continuous canopy, or
- Any mapped wetland included in the Current wetlands map, available in DELWP systems and tools.

**Scattered tree**

A scattered tree is:

- A native canopy tree that does not form part of a patch.

Applications to remove native vegetation are categorised in to one of three assessment pathways with corresponding application requirements and decision guidelines.

- **Basic:** limited impacts on biodiversity.
- **Intermediate:** could impact on large trees, endangered EVCs, and sensitive wetlands and coastal areas.
- **Detailed:** could impact on large trees, endangered EVCs, sensitive wetlands and coastal areas, and could significantly impact on habitat for rare or threatened species

The assessment pathway is determined by considering the extent and location risk modelling of the native vegetation to be removed as per Table 1 below.

**Table 1.** Determining the assessment pathway.

Extent of native vegetation	Location 1	Location 2	Location 3
Less than 0.5 hectares and not including any large trees	Basic	Intermediate	Detailed
Less than 0.5 hectares and including one or more large trees	Intermediate	Intermediate	Detailed
0.5 hectares or more	Detailed	Detailed	Detailed

The current application is considered to be of the basic assessment pathway as scattered native understorey species providing less than 25% vegetative cover are proposed to be removed.

**2.5 LIMITATIONS**

Field surveys provide an indication of what is present at the time of survey (i.e. a ‘snapshot’) and as such may not include species that may be dormant or absent due to seasonal or climatic conditions. As such, some species may be dormant or not displaying diagnostic characteristics at the time of survey.

A fauna survey (i.e. the identification of all fauna species present onsite) was not within the scope of works during the assessment.

However, the survey effort and review of existing relevant information is considered sufficient to provide adequate information to undertake a Biodiversity Assessment.



## 3 RESULTS

### 3.1 FLORA SPECIES

The field visit identified 50 species occurring within the study area. Of these five are considered native species and 45 introduced. See Appendix 1 for a list of species recorded within the study area.

No nationally or state significant flora species were noted within the study area during the assessment.

Two introduced species, Blackberry *Rubus fruticosus* spp. agg. and Montpellier Broom *Genista monspessulana*, noted within the study area are listed as regionally controlled noxious weed within the West Gippsland Catchment (DPI 2008).

### 3.2 VEGETATION QUALITY ASSESSMENT

Pre-1750 (prior to European settlement) EVC modelling and indicates that the property is likely to have been dominated by Plains Grassy Forest (EVC 151). 2005 (extant) mapping indicates that the study area is likely devoid of native vegetation (DELWP 2023a).

The field visit revealed that the property is dominated by introduced vegetation with scattered native species and some bare areas of ground devoid of native vegetation (Plate 1, cover photo).



**Plate 1.** Slashed introduced grass species within the study area with planted trees and shrubs in the rear of the photo.

Introduced vegetation dominates the study area and slashed grassy areas dominated by Kikuyu *Cenchrus clandestinus* with scattered Brown-top Bent *Agrostis capillaris*, Sweet Vernal-grass *Anthoxanthum odoratum*, Flatweed *Hypochaeris radicata*, Paspalum *Paspalum dilatatum*, Onion Grass *Romulea rosea*, Suckling Clover *Trifolium dubium* and Clover *Trifolium repens* were noted amongst garden beds supporting planted ornamental trees and shrubs. Some naturally occurring scattered native groundcover species providing less than 25 % were noted including Slender Wallaby-grass *Rytidosperma racemosum* var. *racemosum*, Finger Rush *Juncus subsecundus*, Common Bog-sedge *Schoenus apogon* and Sweet Pittosporum *Pittosporum undulatum* seedlings.

Planted trees include a mix of species native to Australia but generally not locally indigenous and introduced trees including Spotted Gum *Corymbia ficifolia*, Silky Oak *Grevillea robusta*, Golden Elm *Ulmus*, White Gum *Eucalyptus scoparia*, Narrow-leaved Black Peppermint *Eucalyptus nicholii*, Bottle Brush *Callistemon* spp., Desert Ash *Fraxinus angustifolia*, Mahogany Gum *Eucalyptus botryoides*, Prickly Leaved Paperbark *Melaleuca styphelioides* and Coast Banksia *Banksia integrifolia*.

The locally indigenous Blackwood *Acacia melanoxylon* was noted in the northwest of the study area but is considered likely to have been planted considering the previous uses of the site and age of other clearly planted species. Some native groundcover species were also noted that appear to have been previously used for landscaping including Spiny-headed Mat-rush *Lomandra longifolia*, Tasman Flax-lily *Dianella tasmanica*, Austral Indigo *Indigofera australis*, Sticky Hop-bush *Dodonaea viscosa* and Heath Tea-tree *Leptospermum myrsinoides*.



**Plate 1.** Likely planted Blackwood within the study area.

### 3.3 NATIONALLY SIGNIFICANT FLORA SPECIES

Appendix 2 presents flora species listed on the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) that have previously been recorded and/or are predicted to occur within a five-kilometre radius of the study area by the VBA or the Protected Matters Search tool (DEECA 2023c, DCCEWA 2023).

Two flora species of national significance listed under the EPBC Act has previously been recorded within a five-kilometre radius of the study area (DEECA 2023c). An additional nine species listed under the EPBC Act are predicted to occur, or have habitat predicted to occur within a five-kilometre radius of the study area (DCCEWA 2023), (Appendix 2).

Given the available habitat and amount of survey effort, it is considered unlikely that the study area provides habitat for any flora species of national significance.

### 3.4 FAUNA HABITAT ASSESSMENT

A habitat assessment was undertaken which revealed the presence of planted trees and shrubs and slashed lawn.

Planted trees and shrubs may provide a variety of habitat niches that are likely to be used by a range of arboreal mammals, native birds and reptiles for nesting, foraging and shelter. Insectivorous birds can forage underneath bark, on leaves and flowers, and in leaf litter on the ground. Any coarse woody debris (e.g. branches, logs, stumps) and leaf litter often found beneath mature trees may provide shelter and foraging habitat for small marsupials, reptiles and frogs.

Slashed introduced grasslands generally provide low quality fauna habitat. Typically, introduced grasslands provide few resources for native fauna and are used by relatively few species due to the highly modified nature of this habitat. Ground-foraging birds and woodland birds may forage on seeding grasses and herbs within these areas.

### 3.5 NATIONALLY SIGNIFICANT FAUNA SPECIES

Appendix 3 presents fauna species listed on the EPBC Act that have previously been recorded and/or are predicted to occur within a five kilometre radius of the study area by the VBA (DEECA 2023c) or the DEE Protected Matters Search tool (DCCEWA 2023).

Eight fauna species of national significance, listed under the EPBC Act, have previously been recorded within the five-kilometre VBA search area (DEECA 2023c, Appendix 3). The Protected Matters Search Tool identified an additional 20 species, listed under the EPBC Act, that may occur or for which habitat may occur in the site (DCCEWA 2023, Appendix 3).

Given the habitat type present and previous records, it is considered unlikely that the study area provides significant habitat for any fauna species of national significance. Some species may flyover or forage within the study area on an occasional basis.



### 3.6 SIGNIFICANT ECOLOGICAL COMMUNITIES

A review of information and databases maintained by DEECA and DCCEWA identified the following ecological communities as occurring within the study area or within a five-kilometre radius of the study area.

#### **Ramsar Wetlands (listed under the EPBC Act)**

The Protected Matters Search Tool reported the study area is not near any Ramsar sites of international significance (DCCEWA 2023).

#### **Ecological Communities (listed under the EPBC Act)**

The Protected Matters Search Tool reported one nationally significant ecological community, *Gippsland Red Gum (Eucalyptus tereticornis subsp. mediana) Grassy Woodland and Associated Native Grassland* may occur within five-kilometres of the study area (DCCEWA 2023).

This community was not noted within the study area.

#### **Ecological Communities (listed under the FFG Act)**

No ecological communities listed under the FFG Act were noted within the study area.



## 4 RELEVANT LEGISLATION AND POLICIES

The following policies and legislation were taken into consideration during the assessment.

### 4.1 NATIONAL

#### ***Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)***

*The Environment Protection and Biodiversity Conservation Act 1999* (the EPBC Act) is the central piece of national environmental legislation in Australia. The Act provides a legal framework to protect and manage nationally and internationally important flora, fauna, ecological communities and heritage places — defined in the Act as matters of national environmental significance (SEWPAC 2013).

Under the EPBC Act an action will require approval from the Minister if the action has, will have, or is likely to have, a significant impact on a matter of national environmental significance. The *EPBC Act Significant Impact Guidelines* (SEWPAC 2013) provide information on whether an action (e.g. a project, a development, an undertaking, an activity or a series of activities) requires a referral.

#### **Implications –**

The proposed works are unlikely to pose a significant impact on any matters of national significance. A referral under the EPBC Act is not required.

### 4.2 STATE

#### ***The Flora and Fauna Guarantee Act 1988 (FFG Act)***

The FFG Act is the key state legislation for the conservation of threatened species and communities and for the management of potentially threatening processes. The FFG Act provides for the listing of taxa (genera, species, subspecies, varieties) and communities of flora and fauna that are threatened (Threatened List); potentially threatening processes (Processes List); and flora that have legal protection (Protected Flora List).

A permit is required from DELWP if an action on public land proposes to collect, kill, injure or disturb protected flora.

#### **Implications -**

As the proposed works are not on public land a permit under the FFG Act is not required from DELWP.

#### ***Planning and Environment Act 1987 (PE Act)***

The Planning and Environment Act 1987 (PE Act) establishes a framework for planning the use, development and protection of land in Victoria. The PE Act provides for the Minister to prepare a set of standard provisions for municipal planning schemes called the Victoria Planning Provisions (VPP).



The proposed development is subject to Clause 52.20 VICTORIA'S BIG HOUSING BUILD which aims to facilitate the use and development of land for housing projects funded by Victoria's Big Housing Build program and ensure that development does not unreasonably impact on the amenity of adjoining dwellings.

Under Clause 52.20-8 Native vegetation requirements the following applies:

Before the removal, destruction or lopping of native vegetation outside the levy area:

- Information about the native vegetation in accordance with the application requirements 1, 5 and 9 in Table 4 of the Guidelines for removal, destruction or lopping of native vegetation (DELWP 2017) must be provided to the satisfaction of the Secretary to the Department Environment, Land, Water and Planning (as constituted under Part 2 of the Conservation, Forests and Lands Act 1987).
- The biodiversity impacts from the native vegetation must be offset in accordance with the Guidelines for removal, destruction or lopping of native vegetation (Department of Environment, Land, Water and Planning, December 2017).
- Evidence that the required offset has been secured must be provided to the satisfaction of the Secretary to the Department of Environment, Land, Water and Planning

#### Implications –

Information about the native vegetation in accordance with the application requirements 1, 5 and 9 in Table 4 of the Guidelines for removal, destruction or lopping of native vegetation (DELWP 2017) is provided in Section 5 of this report.

This information must be provided to the satisfaction of the Secretary to the Department of Energy, Environment and Climate Action.

### 4.3 LOCAL AND REGIONAL

#### Planning Scheme

Each municipality in Victoria is covered by a planning scheme, which sets out policies and provisions for the use, development and protection of land (zones and overlays). They are legal documents, sourced and constructed according to the VPP, prepared by the local council or Minister and approved by the Minister. Particular zones and overlays (such as Environmental Significance Overlays and Green Wedge Zones) in the planning scheme may stipulate additional conditions and requirements for applications proposing to remove native vegetation.

A **zone** is a planning provision that reflects the primary character of land (such as residential, industrial or rural) and indicates the type of use and development, which may be appropriate in that zone (DSE 2010d).

An **overlay** is also a planning provision, but one which is in addition to the zone. Overlays ensure that important aspects of the land are recognised (such as areas of significant vegetation). Overlays indicate the type of development and/or protection, which may be appropriate in that area (DSE 2010d).

#### Implications –



No overlays pertaining to ecological values cover the study area.

## 5 BIODIVERSITY ASSESSMENT

**Table 2.** Application requirements and responses for proposed vegetation clearance under the basic assessment pathway.

#	Application Requirement	Response
1	Information about the native vegetation to be removed, including:	
	The assessment pathway and reason for the assessment pathway. This includes the location category of the native vegetation to be removed.	<b>Basic Assessment Pathway</b> Scattered native groundcover species providing less than 25% vegetative cover are proposed to be impacted.
	A description of the native vegetation to be removed that includes: <ul style="list-style-type: none"> <li>• Whether it is a patch or a scattered tree (or both).</li> <li>• The extent (in hectares).</li> <li>• The number and circumference (in centimetres measured at 1.3 metres above ground level) of any large trees within a patch.</li> <li>• The number and circumference (in centimetres measured at 1.3 metres above ground level) of any scattered trees, and whether each tree is small or large.</li> <li>• The strategic biodiversity value score</li> <li>• The condition score.</li> <li>• If it includes endangered Ecological Vegetation Classes.</li> <li>• If it includes sensitive wetland or coastal areas.</li> </ul>	<ul style="list-style-type: none"> <li>• Scattered native groundcover species amongst introduced grasses and planted trees and shrubs are proposed to be impacted.</li> <li>• No remnant native trees or patches of vegetation are proposed to be impacted.</li> <li>• The native vegetation to be removed does not include any sensitive wetland or coastal areas.</li> </ul>
	Maps showing the native vegetation and property in context and containing: <ul style="list-style-type: none"> <li>• Scale, north point and property boundaries</li> <li>• Location of any patches of native vegetation and the number of large trees within the patch proposed to be removed</li> <li>• Location of scattered trees proposed to be removed, including their size</li> </ul>	A map is not required as no remnant native patches or scattered trees were noted within the study area.
The offset requirement, determined in accordance with section 5 of the Guidelines,	There are no offset requirements.	



#	Application Requirement	Response
	that will apply if the native vegetation is approved to be removed	
5	<p>An avoid and minimise statement. The statement describes any efforts to avoid the removal of, and minimise the impacts on the biodiversity and other values of native vegetation, and how these efforts focussed on areas of native vegetation that have the most value. The statement should include a description of the following:</p> <ul style="list-style-type: none"> <li>• Strategic level planning – any regional or landscape scale strategic planning process that the site has been subject to that avoided and minimised impacts on native vegetation across a region or landscape</li> <li>• Site level planning – how the proposed use or development has been sited or designed to avoid and minimise impacts on native vegetation.</li> <li>• That no feasible opportunities exist to further avoid and minimise impacts on native vegetation without undermining the key objectives of the proposal.</li> </ul>	<p><b>Strategic level planning:</b> The study area has not been considered as part of any strategic level planning.</p> <p><b>Site level planning:</b> The proposed development avoids and minimises impact to native vegetation by selecting a site generally devoid of native vegetation. While not considered remnant native vegetation, the Blackwood trees are proposed to be retained within a park area. Additional ecological protection measures are detailed in Section 6.2.</p>
9	<p>An offset statement providing evidence that an offset that meets the offset requirements for the native vegetation to be removed has been identified, and can be secured in accordance with the Guidelines.</p> <p>A suitable statement includes evidence that the required offset:</p> <ul style="list-style-type: none"> <li>• Is available to purchase from a third party, or</li> <li>• Will be established as a new offset and has the agreement of the proposed offset provider, or</li> <li>• Can be met by a first party offset</li> </ul>	Offsets are not required.





## 6 REQUIREMENTS AND RECOMMENDATIONS

### 6.1 REQUIREMENTS

Information about the native vegetation in accordance with the application requirements 1, 5 and 9 in Table 4 of the Guidelines for removal, destruction or lopping of native vegetation (DELWP December 2017) must be provided to the satisfaction of the Secretary to the Department Energy, Environment and Climate Action (See Section 5 of this report). There are no offset requirements.

### 6.2 RECOMMENDATIONS

The following actions are highly recommended to further avoid and minimise impacts to ecological values during and after the proposed works.

#### Native Vegetation

- Ensure any contractors on-site are aware of, and educated about areas of vegetation to be retained and enforce penalties for those who enter into or disturb these areas.
- Exclusion areas and 'no go' zones should be established and protected where appropriate (i.e. use high visibility para-webbing to delineate areas of ecological value). Stockpiles, machinery and personnel rest areas should be placed in designated areas away from retained vegetation.
- Ensure any proposed works remain within the permitted construction footprint (i.e. do not disturb or remove areas of vegetation outside this footprint).
- Any revegetation or landscaping will use locally indigenous species.

#### Sedimentation and Pollution

- Inform contractors that drainage lines are areas of ecological value or pathways to areas of ecological values (e.g. rivers, oceans and wetlands).
- Ensure best practice sedimentation and pollution control measures, to the satisfaction of the Environment Protection Authority (EPA 1991), are undertaken at all times to prevent off-site impacts.
- Ensure waste stockpiles, skips and personnel rest areas are located away from drainage areas to prevent accidental movement of rubbish and construction materials.

#### Weed and Biosecurity

- Any imported soil or gravel must be weed free to prevent importation of weed seed into the study area.
- Control the placement of any soil stockpiles and green waste outside areas of vegetation.



# FIGURES



**FIGURE 1. LOCATION OF THE STUDY AREA**



## REFERENCES

- DELWP 2017. *Guidelines for the removal, destruction or lopping of native vegetation*. Published by the Department of Environment, Land, Water and Planning
- DEECA 2023a. *Nature Kit*. Department of Energy, Environment, and Climate Change website. [www.delwp.vic.gov.au](http://www.delwp.vic.gov.au).
- DEECA 2023b. *Ecological Vegetation Class Benchmarks*. Department of Environment, Land, Water and Planning website. [www.delwp.vic.gov.au](http://www.delwp.vic.gov.au) .
- DEECA 2023c. *Victorian Biodiversity Atlas*. [www.vba.dse.vic.gov.au](http://www.vba.dse.vic.gov.au).
- DEECA 2023d. Department of Energy, Environment, and Climate Change website [www.land.vic.gov.au](http://www.land.vic.gov.au)
- DCCEWA 2023. *Protected Matters Online Search Tool*. Department of Climate Change, Energy, The Environment and Water website. [www.dcceew.gov.au](http://www.dcceew.gov.au)
- DSE 2004. *Vegetation Quality Assessment Manual: Guidelines for applying the habitat hectares scoring method*. Department of Sustainability and Environment, East Melbourne, Victoria.
- EPA 1990 *Construction Techniques for Sediment Pollution Control*. Published by Environmental Protection Agency Victoria.
- Everyone, a division of Metricon 2023. *2 Tobruk Street, Morwell. Concept Proposal*.
- Evergreen Tree Consulting 2023. *2 Tobruk Street, Morwell. Preliminary Tree Survey*.
- SEWPAC 2013 *The EPBC Act Significant Impact Guidelines*. Published by the Department of Sustainability, Environment, Water, Populations and Communities



# APPENDICES



## APPENDIX 1. FLORA SPECIES RECORDED WITHIN THE STUDY AREA DURING THE CURRENT ASSESSMENT

**Notes: CaLP** – denotes Catchment and Land Protection Act *regionally controlled* listed weed within the West Gippsland Catchment.

# - Native to Australia but located outside natural distribution.

Scientific Name	Common Name
<b>NATIVE SPECIES</b>	
<i>Epilobium hirtigerum</i>	Hairy Willow-herb
<i>Juncus subsecundus</i>	Finger Rush
<i>Pittosporum undulatum</i>	Sweet Pittosporum
<i>Rytidosperma racemosum var. racemosum</i>	Slender Wallaby-grass
<i>Schoenus apogon</i>	Common Bog-sedge
<b>INTRODUCED SPECIES</b>	
<i>Acacia baileyana</i>	Cootamundra Wattle
<i>Agrostis capillaris</i>	Brown-top Bent
<i>Aira cupaniana</i>	Quicksilver Grass
<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass
<i>Arctotheca calendula</i>	Cape Weed
<i>Bellis perennis</i>	English Daisy
<i>Briza minor</i>	Lesser Quaking-grass
<i>Bromus catharticus</i>	Prairie Grass
<i>Casuarina cunninghamiana</i> subsp. <i>cunninghamiana</i>	River Oak
<i>Cenchrus clandestinus</i>	Kikuyu
<i>Centaurium erythraea</i>	Common Centaury
<i>Coprosma repens</i>	Mirror Bush
<i>Cortaderia selloana</i> subsp. <i>selloana</i>	Pampas Grass
<i>Cotoneaster pannosus</i>	Velvet Cotoneaster
<i>Cynodon dactylon</i>	Couch
<i>Cyperus eragrostis</i>	Drain Flat-sedge
<i>Dactylis glomerata</i>	Cocksfoot
<i>Ehrharta erecta</i>	Panic Veldt-grass
<i>Ehrharta longiflora</i>	Annual Veldt-grass
<i>Festuca arundinacea</i>	Tall Fescue
<i>Fraxinus angustifolia</i>	Desert Ash
<i>Galium aparine</i>	Cleavers
<b>CaLP</b> <i>Genista monspessulana</i>	Montpellier Broom
<i>Hedera helix</i> s.l.	English Ivy



Scientific Name	Common Name
<i>Hypochaeris radicata</i>	Flatweed
<i>Ipomoea</i> spp.	Morning Glory
<i>Juncus capitatus</i>	Capitate Rush
<i>Leontodon saxatilis</i> subsp. <i>saxatilis</i>	Hairy Hawkbit
<i>Lolium</i> spp.	Rye Grass
<i>Lotus creticus</i>	Lotus
<i>Medicago polymorpha</i>	Burr Medic
<i>Paspalum dilatatum</i>	Paspalum
<i>Phalaris aquatica</i>	Toowoomba Canary-grass
<i>Plantago coronopus</i>	Buck's-horn Plantain
<i>Plantago lanceolata</i>	Ribwort
<i>Prunella vulgaris</i>	Self-heal
<i>Rhaphiolepis indica</i>	Indian Hawthorn
<i>Romulea rosea</i>	Onion Grass
<i>Rosa rubiginosa</i>	Sweet Briar
<b>CaLP</b> <i>Rubus fruticosus</i> spp. agg.	Blackberry
<i>Sonchus oleraceus</i>	Common Sow-thistle
<i>Symphotrichum subulatum</i>	Aster-weed
<i>Taraxacum officinale</i> spp. agg.	Garden Dandelion
<i>Trifolium dubium</i>	Suckling Clover
<i>Trifolium repens</i> var. <i>repens</i>	White Clover
<i>Vulpia</i> spp.	Fescue



## APPENDIX 2. EPBC ACT LISTED FLORA PREVIOUSLY RECORDED OR PREDICTED TO OCCUR WITHIN A FIVE KILOMETRE RADIUS OF THE STUDY AREA

### LISTING:

#### Environment Protection and Biodiversity Conservation Act (EPBC Act):

X	Extinct
CR	Critically Endangered
EN	Endangered
VU	Vulnerable
Habitat	Habitat predicted to occur within 5 kilometre radius

**Likelihood of occurring:** Recorded, Potential Habitat, Unlikely, No Habitat.

**Source:** Victorian Biodiversity Atlas (DEECA 2023c) and (H) = Potential habitat predicted by the Protected Matters Search Tool (DCCEWA 2023)

Scientific Name	Common Name	Total Records	EPBC Act	Likelihood of Occurrence
<i>Eucalyptus strzeleckii</i>	Strzelecki Gum	1141	VU	No habitat
<i>Dianella amoena</i>	Matted Flax-lily	1	EN	No habitat
<i>Thelymitra epipactoides</i>	Metallic Sun-orchid	-	EN	No habitat
<i>Caladenia tessellata</i>	Thick-lipped Spider-orchid	-	VU	No habitat
<i>Pterostylis chlorogramma</i>	Green-striped Greenhood	-	VU	No habitat
<i>Thesium australe</i>	Austral Toadflax	-	VU	No habitat
<i>Xerochrysum palustre</i>	Swamp Everlasting	-	VU	No habitat
<i>Amphibromus fluitans</i>	River Swamp Wallaby-grass	-	VU	No habitat
<i>Glycine latrobeana</i>	Clover Glycine	-	VU	No habitat
<i>Senecio psilocarpus</i>	Swamp Fireweed	-	VU	No habitat
<i>Prasophyllum spicatum</i>	Dense Leek-orchid	-	VU	No habitat





### APPENDIX 3. EPBC ACT LISTED FAUNA SPECIES PREVIOUSLY RECORDED OR WITH POTENTIAL HABITAT WITHIN A FIVE KILOMETRE RADIUS OF THE STUDY AREA (EPBC ACT MIGRATORY AND MARINE SPECIES ARE EXCLUDED)

**LISTING:**
**Environment Protection and Biodiversity Conservation Act (EPBC Act):**

X	Extinct
CR	Critically Endangered
EN	Endangered
VU	Vulnerable
Habitat	Habitat predicted to occur within 5 kilometre radius

**Likelihood of occurring:** Recorded, Potential Habitat, Unlikely, No Habitat.

**Source:** Victorian Biodiversity Atlas (DEECA 2023c) and (H) = Potential habitat predicted by the Protected Matters Search Tool (DCCEWA 2023)

Scientific Name	Common Name	Total Records	EPBC Act	Likelihood of Occurrence
<i>Callocephalon fimbriatum</i>	Gang-gang Cockatoo	17	EN	Possible flyover
<i>Hirundapus caudacutus</i>	White-throated Needletail	13	VU	Possible flyover
<i>Neophema chrysostoma</i>	Blue-winged Parrot	6	VU	Possible flyover
<i>Galaxiella pusilla</i>	Dwarf Galaxias	4	VU	No habitat
<i>Litoria raniformis</i>	Growling Grass Frog	4	VU	No habitat
<i>Botaurus poiciloptilus</i>	Australasian Bittern	1	EN	No habitat
<i>Melanodryas cucullata</i>	Hooded Robin	1	EN	No habitat
<i>Petauroides volans</i>	Southern Greater Glider	1	EN	No habitat
<i>Anthochaera phrygia</i>	Regent Honeyeater	-	CR	No habitat
<i>Calidris ferruginea</i>	Curlew Sandpiper	-	CR	No habitat
<i>Lathamus discolor</i>	Swift Parrot	-	CR	No habitat
<i>Lissolepis coventryi</i>	Swamp Skink	-	EN	No habitat
<i>Dasyurus maculatus maculatus</i> (SE mainland population)	Spot-tailed Quoll	-	EN	No habitat
<i>Isodon obesulus obesulus</i>	Southern Brown Bandicoot (eastern)	-	EN	No habitat
<i>Petauroides volans</i>	Greater Glider (southern and central)	-	EN	No habitat



Scientific Name	Common Name	Total Records	EPBC Act	Likelihood of Occurrence
<i>Melanodryas cucullata cucullata</i>	South-eastern Hooded Robin,	-	EN	No habitat
<i>Rostratula australis</i>	Australian Painted Snipe	-	EN	No habitat
<i>Delma impar</i>	Striped Legless Lizard	-	VU	No habitat
<i>Petaurus australis australis</i>	Yellow-bellied Glider (south-eastern)	-	VU	No habitat
<i>Potorous tridactylus trisulcatus</i>	Long-nosed Potoroo (southern mainland)	-	VU	No habitat
<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	-	VU	No habitat
<i>Prototroctes maraena</i>	Australian Grayling	-	VU	No habitat
<i>Calyptorhynchus lathami lathami</i>	South-eastern Glossy Black-Cockatoo	-	VU	No habitat
<i>Climacteris picumnus victoriae</i>	Brown Treecreeper (south-eastern)	-	VU	No habitat
<i>Falco hypoleucos</i>	Grey Falcon	-	VU	Possible flyover
<i>Grantiella picta</i>	Painted Honeyeater	-	VU	Possible flyover
<i>Pycnoptilus floccosus</i>	Pilotbird	-	VU	No habitat
<i>Stagonopleura guttata</i>	Diamond Firetail	-	VU	Possible flyover





**PLANNING and ENVIRONMENT ACT  
LATROBE PLANNING SCHEME**

**CONSENT UNDER CLAUSE 52.20  
VPP2402817  
ENDORSED PLAN  
Sheet 1 of 25**

**Signed:**  **for  
MINISTER FOR PLANNING  
Date: 9 MAY 2024**

## ESD REPORT

Client: Community Housing Ltd  
Project: 2 Tobruk Street, Morwell  
Subject: ESD Report  
  
Date: 25/01/2024  
Project Number: GIW23093  
Revision: C



285 Lennox St / Richmond VIC 3121 / (t) 61 3 9044 5111 / giw.com.au

## Introduction

The following ESD Report has been prepared for the proposed multi-residential development at 2 Tobruk Street, Morwell. This assessment responds to Homes Victoria – ESD requirements and Victoria Planning Provisions VC216 – 15.01-2S of the La Trobe Council Planning Scheme.

The development has been assessed using the Built Environment Sustainability Scorecard (BESS) tool. The BESS tool addresses nine key environmental categories as follows:

- Management
- Water
- Energy
- Stormwater
- IEQ
- Transport
- Waste
- Urban Ecology
- Innovation

## Sources of Information

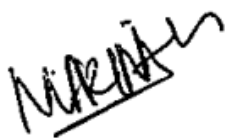
The ESD Report is based on the following documentation:

Architectural Drawings by: Metricon  
 Job/Project No: 2 Tobruk Street, Morwell  
 Drawing No: Sheets 01 - 12 (Rev 09)

## Revision History

Revision Number	Date Issued	Author	Approved	Comments
A	02/11/2023	KE	IB	Final
B	18/12/2023	KE	GW	Final
C	25/01/2024	MS	GW	Final

Project Consultant



**Mareena Saleem**  
Senior ESD Engineer

Project Team Lead



**Gary Wertheimer**  
Director

## ESD Assessment

The project achieves a BESS score of 55% with no mandatory category (IEQ, Energy, Water, Stormwater) below 50%. This figure represents a percentage improvement over a benchmark project, where 50% and higher equates to 'best practice' and is an effective pass of the BESS tool. A score of 70% and higher equates to BESS 'excellence' and exists as a higher benchmark in the tool.

The following ESD initiatives will be implemented in the proposed development at 2 Tobruk Street, Morwell. All initiatives are to be suitably incorporated in the project documentation i.e. architectural, landscape, hydraulics, and civil engineering.

BESS Category	ESD Initiatives
Management	<ul style="list-style-type: none"> <li>• <input type="checkbox"/> A Building User's Guide will be provided to the residents explaining the correct use of installed fittings and fixtures, equipment and building systems.</li> <li>• <input type="checkbox"/> Electricity, and cold-water metering is to be provided to each townhouse.</li> </ul>
Water	<ul style="list-style-type: none"> <li>• <input type="checkbox"/> Water efficient fixtures are applied throughout:               <ul style="list-style-type: none"> <li>○ <input type="checkbox"/> WELS 4 Star Toilets</li> <li>○ <input type="checkbox"/> WELS 5 Star Taps</li> <li>○ <input type="checkbox"/> WELS 4 Star Showerheads</li> <li>○ <input type="checkbox"/> WELS 5 Star Dishwashers</li> <li>○ <input type="checkbox"/> Options for a ≥3 Star Washing Machine will be included in the building user guide.</li> </ul> </li> <li>• <input type="checkbox"/> Water collected from the individual roofs will be directed into 27 x 5,000-litre rainwater tanks (totalling 135,000-litres). Each rainwater tank is to be connected to the toilets, laundries and landscape irrigation within its respective dwelling. Refer Appendix A – WSUD Response.</li> <li>• <input type="checkbox"/> Landscape irrigation is to be connected to the rainwater tank.</li> </ul>
Energy	<ul style="list-style-type: none"> <li>• <input type="checkbox"/> The proposed development will achieve a minimum 7 Stars NatHERS ratings for each residence.</li> <li>• <input type="checkbox"/> The proposed development will be all electric with no gas connection.</li> <li>• <input type="checkbox"/> External lighting will be controlled by motion detectors.</li> <li>• <input type="checkbox"/> Lighting power density shall be as follows:               <ul style="list-style-type: none"> <li>○ <input type="checkbox"/> Dwelling: No greater than average 4W/m<sup>2</sup></li> <li>○ <input type="checkbox"/> Veranda/balcony/terrace: No greater than average 3W/m<sup>2</sup></li> <li>○ <input type="checkbox"/> Back of house and indoor car parks: No greater than average 5W/m<sup>2</sup></li> </ul> </li> <li>• <input type="checkbox"/> Hot water is to be provided via individual heat pump hot water systems.</li> <li>• <input type="checkbox"/> Inverter split system units are to be installed and sized to maintain conditions of the main living areas. Systems are to be within 1 star of the</li> </ul>

BESS Category	ESD Initiatives
	<p>best available under the post April 2012 Minimum Energy Performance Standards (MEPS).</p> <ul style="list-style-type: none"> <li>• <input type="checkbox"/> The proposed development is to be provided with outdoor clothes lines to all private open spaces.</li> </ul>
Stormwater	<ul style="list-style-type: none"> <li>• <input type="checkbox"/> A 103% STORM score is achieved. Refer Appendix A – WSUD Response for mark-up of collection and impervious areas, STORM Report and maintenance manual. Final system design TBC by Civil Engineering at detailed design.</li> </ul>
IEQ	<ul style="list-style-type: none"> <li>• <input type="checkbox"/> Double glazing or better will be applied to all windows.</li> <li>• <input type="checkbox"/> Shading strategy: <ul style="list-style-type: none"> <li>○ <input type="checkbox"/> The dwellings have a minimum roof eave overhang of 450mm depth across all orientations.</li> <li>○ <input type="checkbox"/> The dwellings windows are appropriately sized to help balance solar heat gains, heat loss and cross ventilation and daylight amenity.</li> </ul> </li> <li>• <input type="checkbox"/> All living and bedroom areas are naturally cross ventilated with windows / doors on opposite or adjacent facades or effectively single sided ventilated.</li> <li>• <input type="checkbox"/> &gt;50% of dwellings living areas are oriented towards the north.</li> </ul>
Transport	<ul style="list-style-type: none"> <li>• <input type="checkbox"/> The proposed development is in close proximity of Morwell Railway Station, and Route 1, 2, 20, 21 and 22 bus.</li> </ul>
Materials	<ul style="list-style-type: none"> <li>• <input type="checkbox"/> The design seeks to limit the use of high embodied energy metal finishes.</li> <li>• <input type="checkbox"/> At least 40% of coarse aggregate in the concrete is crushed slag aggregate or other alternative materials (measured by mass across all concrete mixes in the project).</li> <li>• <input type="checkbox"/> The building's steel (by mass) is to be sourced from a Responsible Steel Maker.</li> <li>• <input type="checkbox"/> Where timber is to be used, such timbers are to be FSC or PEFC certified.</li> <li>• <input type="checkbox"/> Permanent formwork, pipes, flooring, blinds, and cables in the project will seek to comply with the following: <ul style="list-style-type: none"> <li>○ <input type="checkbox"/> Meet the GBCA's Best Practice Guidelines for PVC. or;</li> <li>○ <input type="checkbox"/> The supplier holds a valid ISO140001 certification.</li> </ul> </li> <li>• <input type="checkbox"/> The project will incorporate products that meet the transparency and sustainability requirements where deemed appropriate.</li> </ul>

BESS Category	ESD Initiatives
Waste	<ul style="list-style-type: none"> <li>• <input type="checkbox"/> At least 80% of the waste generated during construction and demolition has been diverted from landfill.</li> <li>• <input type="checkbox"/> Adequate spatial provisioning within each POS for four-bin recycling system including: glass-only recycling, mixed recycling, green waste and general waste.</li> <li>• <input type="checkbox"/> Kitchen joinery is to provide appropriate spatial allowance for four-bin waste sorting.</li> </ul>
Urban Ecology	<ul style="list-style-type: none"> <li>• <input type="checkbox"/> 51% of the development site will be covered by vegetation.</li> </ul>

## Appendices

### Appendix A – WSUD Response

#### Site layout Plan

The following architectural mark-up illustrates the rainwater collection and impervious areas of the proposed development site. We note that the proposed road and adjacent pedestrian paths will be Council asset and are therefore excluded from this assessment.



Figure 1 - Mark-up of water catchment and impervious areas



## STORM Rating

A STORM rating of  $\geq 100\%$  can be achieved by implementing the following initiatives:

- Water collected from the individual roofs will be directed into 27 x 5,000-litre rainwater tanks (totalling 135,000-litres). Each rainwater tank is to be connected to the toilets, laundries and landscape irrigation within its respective dwelling.

Note: Public roadways and footpaths have been excluded from the STORM assessment.

Melbourne Water has developed the Stormwater Treatment Objective- Relative Measure (STORM) Calculator as a method of simplifying the analysis of stormwater treatment methods. The STORM Calculator displays the amount of treatment that is required to meet best practice targets, using WSUD treatment measures.

The best practice standards have been set out in the Urban Stormwater Best Practice Environmental Management Guidelines (Victoria Stormwater Committee, 1999) for reduction in total suspended solids (TSS), total phosphorus (TP) and total nitrogen (TN) loads.

The STORM Result is provided below:

## STORM Rating Report

TransactionID: 0  
 Municipality: LA TROBE  
 Rainfall Station: MORWELL  
 Address: 2 Tobruk Street  
 Morwell  
 VIC 3840  
 Assessor: GIW  
 Development Type: Residential - Subdivision  
 Allotment Site (m2): 13,929.00  
 STORM Rating %: 103

Description	Impervious Area (m2)	Treatment Type	Treatment Area/Volume (m2 or L)	Occupants / Number Of Bedrooms	Treatment %	Tank Water Supply Reliability (%)
Roof Areas 1	1,881.00	Rainwater Tank	67,500.00	60	136.60	92.10
Impervious Area	579.00	None	0.00	0	0.00	0.00
Roof Areas 2	1,881.00	Rainwater Tank	67,500.00	50	129.00	94.90
Impervious Area POS	514.00	None	0.00	0	0.00	0.00

### WSUD Strategy

The development will include the provision of 27 x 5,000-litre rainwater tanks (totalling 135,000-litres) and associated pump in the individual POS of each dwelling. Each rainwater tank is to be connected to the toilets, laundries and landscape irrigation within its respective dwelling.

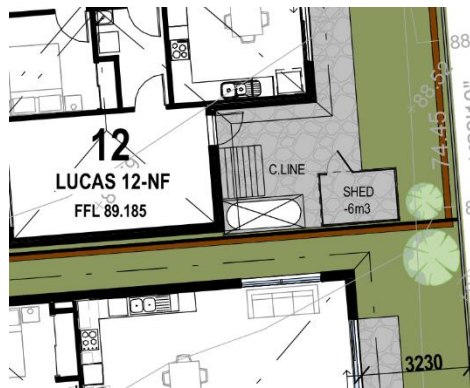


Figure 2 – Location Rainwater Tanks (Typical)

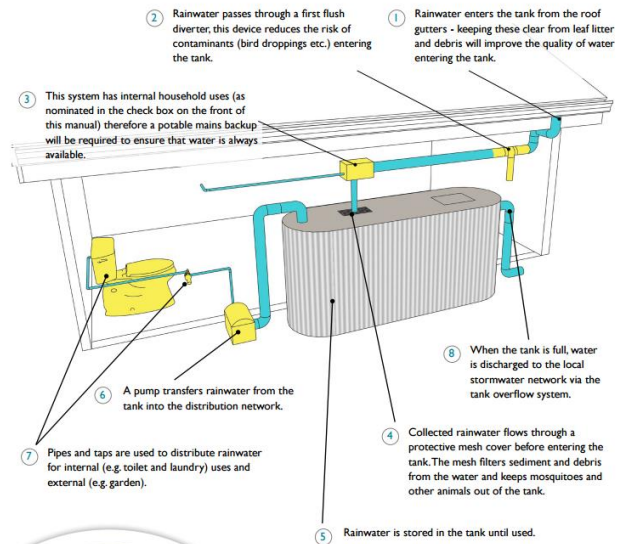


Figure 3 – Cross-section Tank  
(City of Port Phillip)

## Rainwater Reuse

### Inputs

Catchment Area	3762	sqm
Number of Bedrooms	64	
Bin Washout	No	
Irrigation Area	2516	sqm
Tank Capacity	135,000	Litre

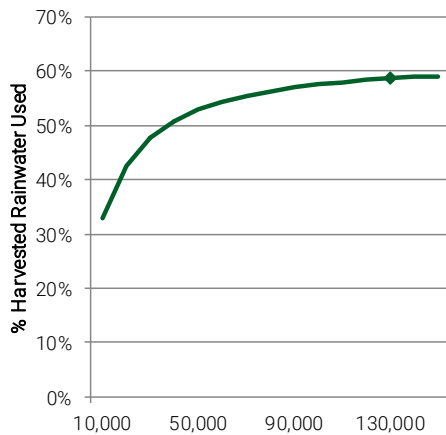
### Outputs

% Served by Rainwater	39.3%
% Harvested Rainwater Used	95.1%
Total Potable Water Saved	1,308,189 Litre

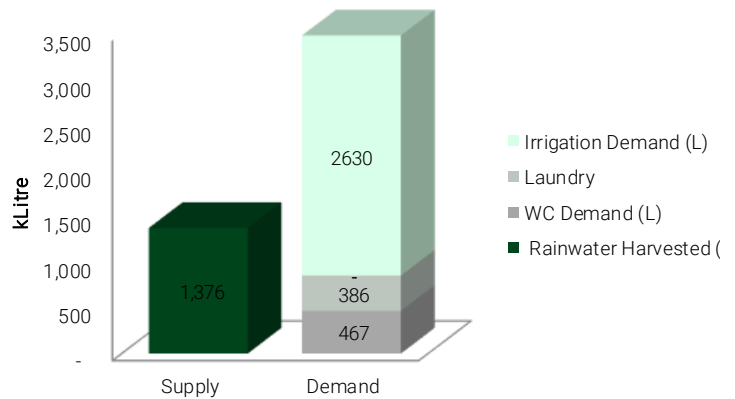
### Rainwater Balance (Monthly Averages)

Month	Rainwater Harvested (L)	WC Demand (L)	Laundry (L)	Irrigation Demand (L)
Jan	96731	39680	32400	390409
Feb	114767	35840	29733	352570
Mar	105726	39680	32400	180423
Apr	120484	38400	32400	173109
May	107214	39680	32400	179204
Jun	109253	38400	32400	80938
Jul	81439	39680	32400	83202
Aug	108742	39680	32400	83202
Sep	110714	38400	32400	236588
Oct	127587	39680	32400	243206
Nov	166674	38400	32400	236588
Dec	126330	39680	32400	390409
Total	1375660	467200	386133	2629848
Equivalent STORM tool		64.00	52.89	

### Tank Sizing



### Supply-Demand



### Site Management Statement

Prevention of litter, sediments and pollution entering the stormwater system in the construction phase is to be addressed through introduction of the following initiatives:

- Buffer strips to prevent stormwater runoff.
- Gravel sausage filters at stormwater inlets to prevent silt, mud or any other site contaminant from entering the stormwater system.
- Silt fences under grates at surface entry inlets to prevent sediment from entering the stormwater system.
- Temporary rumble grids to vibrate mud and dirt off vehicles prior to leaving the site.
- The site is to be kept clean from any loose rubbish or rubble.
- Introduction of offsite construction for building elements where deemed appropriate.

The builder is to include these initiatives in the construction management plan and address these during site induction of relevant contractors.

### Maintenance Program

The following maintenance requirements are to be programmed to ensure the rainwater tank operates effectively:

Item	Description	Maintenance Interval
Gutters and downpipes	Eave and box gutters are to be inspected and cleaned to prevent large debris from being washed into rainwater tank.	3 monthly
First flush system (as applicable)	Inspect and clean excess sediment from diverter chamber to prevent blockages.	3 monthly
Tank contents	Siphon the tank to inspect contents. If sludge is present, a plumber will be required to drain tank contents and clean the tank.	2 to 3 years
Tank structure	Inspect tank externally for leaks	Yearly
Pump system	Inspect pump wiring, plumbing and check for smooth operation.	6 monthly
Plumbing	Plumbing and fixtures connected to the rainwater tank is to be inspected for leaks.	Yearly

## Appendix B – BESS Assessment

# BESS Report

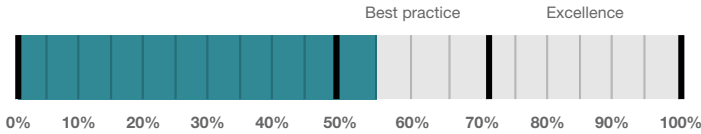
Built Environment Sustainability Scorecard



This BESS report outlines the sustainable design commitments of the proposed development at 2 Tobruk St Morwell Victoria 3840. The BESS report and accompanying documents and evidence are submitted in response to the requirement for a Sustainable Design Assessment or Sustainability Management Plan at Yarra Ranges Shire Council.

Note that where a Sustainability Management Plan is required, the BESS report must be accompanied by a report that further demonstrates the development's potential to achieve the relevant environmental performance outcomes and documents the means by which the performance outcomes can be achieved.

## Your BESS Score



# 55%

## Project details

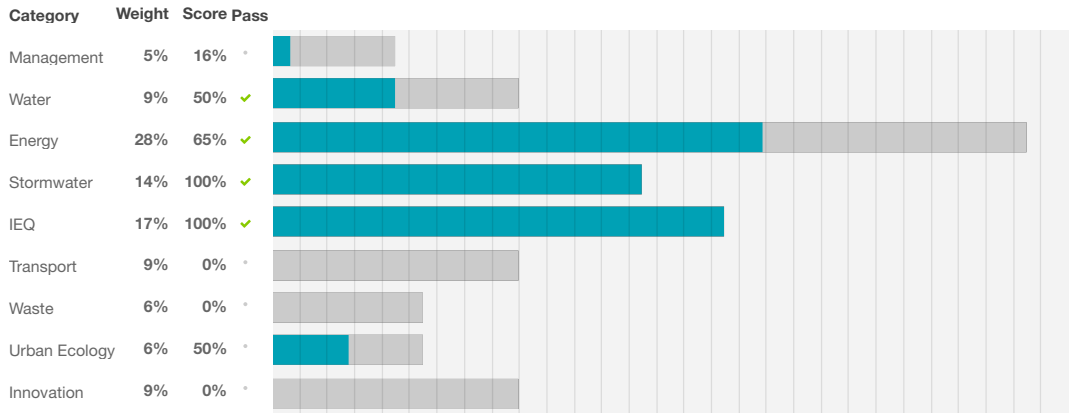
**Address** 2 Tobruk St Morwell Victoria 3840  
**Project no** 7CBF07E2-R4  
**BESS Version** BESS-7

**Site type** Multi dwelling (dual occupancy, townhouse, villa unit etc)  
**Account** info@giv.com.au  
**Application no.**  
**Site area** 13,929.00 m<sup>2</sup>  
**Building floor area** 3,275.00 m<sup>2</sup>  
**Date** 25 January 2024  
**Software version** 1.8.1-B.407



## Performance by category

● Your development ● Maximum available



## Dwellings & Non Res Spaces

### Dwellings

Name	Quantity	Area	% of total area
<b>Townhouse</b>			
Lucas 12	8	139 m <sup>2</sup>	33%
Milford 9	9	105 m <sup>2</sup>	28%
Milford 10	6	127 m <sup>2</sup>	23%
Argyle 13	4	114 m <sup>2</sup>	13%
<b>Total</b>	<b>27</b>	<b>3,275 m<sup>2</sup></b>	<b>100%</b>

## Supporting information

### Floorplans & elevation notes



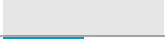

Credit	Requirement	Response	Status
Water 3.1	Annotation: Water efficient garden details		-
Energy 3.3	Annotation: External lighting controlled by motion sensors		-
Energy 3.4	Location of clothes line (if proposed)		-
Stormwater 1.1	Location of any stormwater management systems (rainwater tanks, raingardens, buffer strips)		-
IEQ 2.2	Annotation: Dwellings designed for 'natural cross flow ventilation' (If not all dwellings, include a list of compliant dwellings)		-
IEQ 3.1	Annotation: Glazing specification (U-value, SHGC)		-
IEQ 3.2	Adjustable shading systems		-
IEQ 3.3	North-facing living areas		-
Urban Ecology 2.1	Location and size of vegetated areas		-

### Supporting evidence




Credit	Requirement	Response	Status
Energy 3.5	Average lighting power density and lighting type(s) to be used		-
Stormwater 1.1	STORM report or MUSIC model		-
IEQ 2.2	A list of dwellings with natural cross flow ventilation		-
IEQ 3.1	Reference to floor plans or energy modelling showing the glazing specification (U-value and Solar Heat Gain Coefficient, SHGC)		-
IEQ 3.2	Reference to floor plans and elevations showing shading devices		-
IEQ 3.3	Reference to the floor plans showing living areas orientated to the north		-

## Credit summary















### Management Overall contribution 4.5%

		<b>16%</b>
1.1 Pre-Application Meeting		0%
2.2 Thermal Performance Modelling - Multi-Dwelling Residential		0%
4.1 Building Users Guide		100%

### Water Overall contribution 9.0%

		<b>Minimum required 50%</b>	<b>50%</b>	<b>✔ Pass</b>
1.1 Potable Water Use Reduction		40%		
3.1 Water Efficient Landscaping		100%		

### Energy Overall contribution 27.5%

		<b>Minimum required 50%</b>	<b>65%</b>	<b>✔ Pass</b>
1.2 Thermal Performance Rating - Residential		50%		
2.1 Greenhouse Gas Emissions		100%		
2.2 Peak Demand		0%		
2.3 Electricity Consumption		100%		
2.4 Gas Consumption		N/A	✦ Scoped Out	No gas connection in use
2.5 Wood Consumption		N/A	✦ Scoped Out	No wood heating system present
2.6 Electrification		100%		
3.2 Hot Water		100%		
3.3 External Lighting		100%		
3.4 Clothes Drying		100%		
3.5 Internal Lighting - Houses and Townhouses		100%		
4.4 Renewable Energy Systems - Other		0%	⊘ Disabled	No other (non-solar PV) renewable energy is in use.
4.5 Solar PV - Houses and Townhouses		0%	⊘ Disabled	No solar PV renewable energy is in use.

### Stormwater Overall contribution 13.5%

		<b>Minimum required 100%</b>	<b>100%</b>	<b>✔ Pass</b>
1.1 Stormwater Treatment		100%		



**IEQ Overall contribution 16.5%**

		<b>Minimum required 50%</b>	<b>100%</b>	<b>✔ Pass</b>
2.2	Cross Flow Ventilation		100%	
3.1	Thermal comfort - Double Glazing		100%	
3.2	Thermal Comfort - External Shading		100%	
3.3	Thermal Comfort - Orientation		100%	

**Transport Overall contribution 9.0%**

			<b>0%</b>	
1.1	Bicycle Parking - Residential		0%	
1.2	Bicycle Parking - Residential Visitor		0%	
2.1	Electric Vehicle Infrastructure		0%	

**Waste Overall contribution 5.5%**

			<b>0%</b>	
1.1	Construction Waste - Building Re-Use		0%	
2.1	Operational Waste - Food & Garden Waste		0%	

**Urban Ecology Overall contribution 5.5%**

			<b>50%</b>	
2.1	Vegetation		100%	
2.2	Green Roofs		0%	
2.3	Green Walls and Facades		0%	
2.4	Private Open Space - Balcony / Courtyard Ecology		0%	
3.1	Food Production - Residential		0%	

**Innovation Overall contribution 9.0%**

			<b>0%</b>	
1.1	Innovation		0%	

## Credit breakdown

### Management Overall contribution 1%

<b>1.1 Pre-Application Meeting</b>		0%
Score Contribution	This credit contributes 50.0% towards the category score.	
Criteria	Has an ESD professional been engaged to provide sustainability advice from schematic design to construction? AND Has the ESD professional been involved in a pre-application meeting with Council?	
Question	Criteria Achieved ?	
Project	No	
<b>2.2 Thermal Performance Modelling - Multi-Dwelling Residential</b>		0%
Score Contribution	This credit contributes 33.3% towards the category score.	
Criteria	Have preliminary NatHERS ratings been undertaken for all thermally unique dwellings?	
Question	Criteria Achieved ?	
Townhouse	No	
<b>4.1 Building Users Guide</b>		100%
Score Contribution	This credit contributes 16.7% towards the category score.	
Criteria	Will a building users guide be produced and issued to occupants?	
Question	Criteria Achieved ?	
Project	Yes	



**Water** Overall contribution 4% Minimum required 50%

<b>Water Approach</b>	
What approach do you want to use for Water?:	Use the built in calculation tools
<b>Project Water Profile Question</b>	
Do you have a reticulated third pipe or an on-site water recycling system?:	No
Are you installing a swimming pool?:	No
Are you installing a rainwater tank?:	Yes
<b>Water fixtures, fittings and connections</b>	
Showerhead: All	4 Star WELS (>= 6.0 but <= 7.5)
Bath: All	Scope out
Kitchen Taps: All	>= 5 Star WELS rating
Bathroom Taps: All	>= 5 Star WELS rating
Dishwashers: All	>= 5 Star WELS rating
WC: All	>= 4 Star WELS rating
Urinals: All	Scope out
Washing Machine Water Efficiency: All	Occupant to Install
Which non-potable water source is the dwelling/space connected to?: All	-1
Non-potable water source connected to Toilets: All	No
Non-potable water source connected to Laundry (washing machine): All	No
Non-potable water source connected to Hot Water System: All	No
<b>Rainwater Tank</b>	
What is the total roof area connected to the rainwater tank?: Tanks (5kL per dwelling)	3,762 m <sup>2</sup>
Tank Size: Tanks (5kL per dwelling)	135,000 Litres
Irrigation area connected to tank: Tanks (5kL per dwelling)	2,516 m <sup>2</sup>
Is connected irrigation area a water efficient garden?: Tanks (5kL per dwelling)	Yes
Other external water demand connected to tank?: Tanks (5kL per dwelling)	-

<b>1.1 Potable Water Use Reduction</b>		40%
Score Contribution	This credit contributes 83.3% towards the category score.	
Criteria	What is the reduction in total potable water use due to efficient fixtures, appliances, rainwater use and recycled water use? To achieve points in this credit there must be >25% potable water reduction.	
Output	Reference	
Project	5454 kL	
Output	Proposed (excluding rainwater and recycled water use)	
Project	4587 kL	
Output	Proposed (including rainwater and recycled water use)	
Project	3529 kL	
Output	% Reduction in Potable Water Consumption	
Project	35 %	
Output	% of connected demand met by rainwater	
Project	95 %	
Output	How often does the tank overflow?	
Project	Often	
Output	Opportunity for additional rainwater connection	
Project	2082 kL	
<b>3.1 Water Efficient Landscaping</b>		100%
Score Contribution	This credit contributes 16.7% towards the category score.	
Criteria	Will water efficient landscaping be installed?	
Question	Criteria Achieved ?	
Project	Yes	

**Energy** Overall contribution 18% Minimum required 50%

<b>Dwellings Energy Approach</b>	
What approach do you want to use for Energy?:	Use the built in calculation tools
<b>Project Energy Profile Question</b>	
Are you installing any solar photovoltaic (PV) system(s)?:	No
Are you installing any other renewable energy system(s)?:	No
Energy Supply:	All-electric
<b>Dwelling Energy Profiles</b>	
Below the floor is: All	Ground or Carpark
Above the ceiling is: All	Outside
Exposed sides: All	4
NatHERS Annual Energy Loads - Heat: All	100 MJ/sqm
NatHERS Annual Energy Loads - Cool: All	30.0 MJ/sqm
NatHERS star rating: All	7.0
Type of Heating System: All	Reverse cycle space
Heating System Efficiency: All	3 Star
Type of Cooling System: All	Refrigerative space
Cooling System Efficiency: All	3 Stars
Type of Hot Water System: All	Electric Heat Pump Band 1
Clothes Line: All	Private outdoor clothesline
Clothes Dryer: All	Occupant to Install
<b>1.2 Thermal Performance Rating - Residential</b>	<b>50%</b>
Score Contribution	This credit contributes 30.0% towards the category score.
Criteria	What is the average NatHERS rating?
Output	Average NATHERS Rating (Weighted)
Townhouse	7.0 Stars
<b>2.1 Greenhouse Gas Emissions</b>	<b>100%</b>
Score Contribution	This credit contributes 10.0% towards the category score.
Criteria	What is the % reduction in annual greenhouse gas emissions against the benchmark?
Output	Reference Building with Reference Services (BCA only)
Townhouse	245,024 kg CO2
Output	Proposed Building with Proposed Services (Actual Building)
Townhouse	78,418 kg CO2
Output	% Reduction in GHG Emissions
Townhouse	67 %

<b>2.2 Peak Demand</b>		0%
Score Contribution	This credit contributes 5.0% towards the category score.	
Criteria	What is the % reduction in the instantaneous (peak-hour) demand against the benchmark?	
Output	Peak Thermal Cooling Load - Baseline	
Townhouse	355 kW	
Output	Peak Thermal Cooling Load - Proposed	
Townhouse	364 kW	
Output	Peak Thermal Cooling Load - % Reduction	
Townhouse	-3 %	
<b>2.3 Electricity Consumption</b>		100%
Score Contribution	This credit contributes 10.0% towards the category score.	
Criteria	What is the % reduction in annual electricity consumption against the benchmark?	
Output	Reference	
Townhouse	240,219 kWh	
Output	Proposed	
Townhouse	76,880 kWh	
Output	Improvement	
Townhouse	67 %	
<b>2.4 Gas Consumption</b>		N/A  Scoped Out
This credit was scoped out	No gas connection in use	
<b>2.5 Wood Consumption</b>		N/A  Scoped Out
This credit was scoped out	No wood heating system present	
<b>2.6 Electrification</b>		100%
Score Contribution	This credit contributes 10.0% towards the category score.	
Criteria	Is the development all-electric?	
Question	Criteria Achieved?	
Project	Yes	
<b>3.2 Hot Water</b>		100%
Score Contribution	This credit contributes 5.0% towards the category score.	
Criteria	What is the % reduction in annual energy consumption (gas and electricity) of the hot water system against the benchmark?	
Output	Reference	
Townhouse	332,036 MJ	
Output	Proposed	
Townhouse	89,711 MJ	
Output	Improvement	
Townhouse	72 %	

<b>3.3 External Lighting</b>		100%
Score Contribution	This credit contributes 5.0% towards the category score.	
Criteria	Is the external lighting controlled by a motion detector?	
Question	Criteria Achieved ?	
Townhouse	Yes	
<b>3.4 Clothes Drying</b>		100%
Score Contribution	This credit contributes 5.0% towards the category score.	
Criteria	What is the % reduction in annual energy consumption (gas and electricity) from a combination of clothes lines and efficient driers against the benchmark?	
Output	Reference	
Townhouse	16,455 kWh	
Output	Proposed	
Townhouse	3,291 kWh	
Output	Improvement	
Townhouse	80 %	
<b>3.5 Internal Lighting - Houses and Townhouses</b>		100%
Score Contribution	This credit contributes 5.0% towards the category score.	
Criteria	Does the development achieve a maximum illumination power density of 4W/sqm or less?	
Question	Criteria Achieved?	
Townhouse	Yes	
<b>4.4 Renewable Energy Systems - Other</b>	0%	⊘ Disabled
This credit is disabled	No other (non-solar PV) renewable energy is in use.	
<b>4.5 Solar PV - Houses and Townhouses</b>	0%	⊘ Disabled
This credit is disabled	No solar PV renewable energy is in use.	

**Stormwater** Overall contribution 14% Minimum required 100%

Which stormwater modelling are you using?:		Melbourne Water STORM tool
<b>1.1 Stormwater Treatment</b>		100%
Score Contribution	This credit contributes 100.0% towards the category score.	
Criteria	Has best practice stormwater management been demonstrated?	
Question	STORM score achieved	
Project	103	
Output	Min STORM Score	
Project	100	

**IEQ** Overall contribution 16% Minimum required 50%

<b>2.2 Cross Flow Ventilation</b>		100%
Score Contribution	This credit contributes 20.0% towards the category score.	
Criteria	Are all habitable rooms designed to achieve natural cross flow ventilation?	
Question	Criteria Achieved ?	
Townhouse	Yes	
<b>3.1 Thermal comfort - Double Glazing</b>		100%
Score Contribution	This credit contributes 40.0% towards the category score.	
Criteria	Is double glazing (or better) used to all habitable areas?	
Question	Criteria Achieved ?	
Townhouse	Yes	
<b>3.2 Thermal Comfort - External Shading</b>		100%
Score Contribution	This credit contributes 20.0% towards the category score.	
Criteria	Is appropriate external shading provided to east, west and north facing glazing?	
Question	Criteria Achieved ?	
Townhouse	Yes	
<b>3.3 Thermal Comfort - Orientation</b>		100%
Score Contribution	This credit contributes 20.0% towards the category score.	
Criteria	Are at least 50% of living areas orientated to the north?	
Question	Criteria Achieved ?	
Townhouse	Yes	

**Transport** Overall contribution 0%

<b>1.1 Bicycle Parking - Residential</b>		0%
Score Contribution	This credit contributes 33.3% towards the category score.	
Criteria	How many secure and undercover bicycle spaces are there per dwelling for residents?	
Question	Bicycle Spaces Provided ?	
Townhouse	0	
<b>1.2 Bicycle Parking - Residential Visitor</b>		0%
Score Contribution	This credit contributes 33.3% towards the category score.	
Criteria	How many secure bicycle spaces are there per 5 dwellings for visitors?	
Question	Visitor Bicycle Spaces Provided ?	
Townhouse	0	
<b>2.1 Electric Vehicle Infrastructure</b>		0%
Score Contribution	This credit contributes 33.3% towards the category score.	
Criteria	Are facilities provided for the charging of electric vehicles?	
Question	Criteria Achieved ?	
Project	No	



**Waste** Overall contribution 0%

<b>1.1 - Construction Waste - Building Re-Use</b>		0%
Score Contribution	This credit contributes 50.0% towards the category score.	
Criteria	If the development is on a site that has been previously developed, has at least 30% of the existing building been re-used?	
Question	Criteria Achieved ?	
Project	No	
<b>2.1 - Operational Waste - Food &amp; Garden Waste</b>		0%
Score Contribution	This credit contributes 50.0% towards the category score.	
Criteria	Are facilities provided for on-site management of food and garden waste?	
Question	Criteria Achieved ?	
Project	No	

**Urban Ecology** Overall contribution 3%

<b>2.1 Vegetation</b>	100%
Score Contribution	This credit contributes 50.0% towards the category score.
Criteria	How much of the site is covered with vegetation, expressed as a percentage of the total site area?
Question	Percentage Achieved ?
Project	51 %
<b>2.2 Green Roofs</b>	0%
Score Contribution	This credit contributes 12.5% towards the category score.
Criteria	Does the development incorporate a green roof?
Question	Criteria Achieved ?
Project	No
<b>2.3 Green Walls and Facades</b>	0%
Score Contribution	This credit contributes 12.5% towards the category score.
Criteria	Does the development incorporate a green wall or green façade?
Question	Criteria Achieved ?
Project	No
<b>2.4 Private Open Space - Balcony / Courtyard Ecology</b>	0%
Score Contribution	This credit contributes 12.5% towards the category score.
Criteria	Is there a tap and floor waste on every balcony / in every courtyard?
Question	Criteria Achieved ?
Townhouse	No
<b>3.1 Food Production - Residential</b>	0%
Score Contribution	This credit contributes 12.5% towards the category score.
Criteria	What area of space per resident is dedicated to food production?
Question	Food Production Area
Townhouse	0.0 m²
Output	Min Food Production Area
Townhouse	19 m²

**Innovation** Overall contribution 0%

<b>1.1 Innovation</b>	0%
Score Contribution	This credit contributes 100.0% towards the category score.
Criteria	What percentage of the Innovation points have been claimed (10 points maximum)?

**Disclaimer**

The Built Environment Sustainability Scorecard (BESS) has been provided for the purpose of information and communication. While we make every effort to ensure that material is accurate and up to date (except where denoted as 'archival'), this material does in no way constitute the provision of professional or specific advice. You should seek appropriate, independent, professional advice before acting on any of the areas covered by BESS.

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# ALAMEIN STREET



### LEGEND

- COMPACTED GRANITE SCREENINGS
- DROUGHT TOLERANT TURF GRASS BUFFALO OR SIMILAR
- PERMEABLE CONCRETE PATH
- CHARCOAL COLOURED CONCRETE
- MULCHED GARDEN BED  
MULCH: DYED-BLACK FINE PINE BARK (MIN. 80MM DEEP)  
TOPSOIL: SANDY LOAM (MIN. 250MM DEEP)
- PALING FENCE  
1.8M UNLESS STATED OTHERWISE
- GARDEN EDGING  
75 x 25mm TREATED PINE EDGING
- RUBBISH BINS
- CLOTHES LINE
- RETAINING WALL
- 900MM HIGH MAX. LETTER BOX
- TREES REMOVED AS PER ARBORIST REPORT
- WATER TANK FOR IRRIGATION

- ### NOTES
- ALL LEVELS ARE TO AFD
  - PROPOSED INTERNAL FENCING TO BE 1.8M HIGH TIMBER PALING UNLESS OTHERWISE NOTED.
  - ALL BOUNDARY FENCES ARE EXISTING AND ARE TO REMAIN (EXCEPT WHERE WALL PROPOSED ON BOUNDARY).
  - ALL LANDSCAPING SHOWN IS CONCEPTUAL AND INDICATIVE ONLY.
  - 6 CUBIC METERS OF STORAGE IS PROVIDED WITHIN GARDEN SHED UNLESS OTHERWISE NOTED.
  - UNLESS SPECIFIED OTHERWISE, ALL STEP TREADS ARE TO BE 320-350MM DEEP, STEP RISERS TO BE MAXIMUM 180MM HIGH.

### LANDSCAPE CONSTRUCTION SPECIFICATIONS

**SOIL PREPARATION**  
 SOIL PREPARATION TO BE CARRIED OUT UNDER SUITABLE CONDITIONS IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE. THE USE OF MACHINERY OR TOOLS THAT MAY CHANGE SOIL STRUCTURE IS NOT ACCEPTABLE. GARDEN BEDS AND LAWN SUBSTRATE IS TO BE TO A DEPTH OF 100MM AND SHAPED TO ACHIEVE DRAINAGE FALL PRIOR TO ADDING TOPSOIL. IF TOPSOIL IS REQUIRED, THIS IS TO BE SUBMITTED AND APPROVED PRIOR TO THE MANUFACTURE OF THE PLAN. TOPSOIL IS TO BE STORED PROPERLY TO AVOID DRAINAGE PREPARATION TO SOILS AND PLANTING.

**SOIL PREPARATION**  
 SOIL PREPARATION IS TO BE CARRIED OUT BY AN APPROVED OPERATOR TO A DEPTH OF APPROXIMATELY 100MM (AS REQUIRED). FOR GARDEN BEDS, DO NOT SPREAD IN SHADY CONDITIONS. THE TOPSOIL IS TO BE LIGHT TO MEDIUM GRADE LOAM CAPABLE OF BEING COMPRESSED INTO A DALL BY HAND WHEN MOIST. IT CAN BE BROKEN APART IMMEDIATELY AFTER THE TOPSOIL IS LAYED IN ORDER TO PREPARE WORKING BEDS. THE FINISHED TOPSOIL SHOULD BE STORED IN A PROTECTED AREA TO BE 100MM BELOW THE FINISHED LEVEL TO ALLOW FOR MULCH INFILTRATED TOPSOIL FOR LAWN AREAS TO BE SUPPLIED TO A DEPTH OF APPROXIMATELY 100MM (OR AS REQUIRED).

**TERRACE EDGING**  
 TERRACE EDGING TO BE INSTALLED TO SEPARATE ALL LAWN PLANTING AREAS AND ALL LAWN TOPPING/PERMABLE AREAS. THE TERRACE EDGING IS TO BE 75MM x 25MM IN SIZE, RECYCLED WITH BROWN COLOURED ENDERS AT 180MM SPACING.

**PLANTS AND PLANTING**  
 TREES AND PLANTS SUPPLIED ARE TO BE HEALTHY AND FREE FROM INSECTS, DISEASES AND WEEDS. THE FOOT SIZE INDICATED IN THE PLANT SCHEDULE ARE THE MINIMUM SIZE TO BE SUPPLIED AND NOTED.  
 MULCHING: MULCHING AREAS TO BE PREPARED, IF SOIL IS DRY, FILL WITH WATER AND ALLOW TO DRAIN AWAY COMPLETELY. PLANTS ROOTS ARE TO BE FEARED OUTWARDS IF ROOTS ARE EXPOSED IN ANYWAY. MULCH IS TO BE APPLIED IN A MANNER THAT THE TOP OF THE ROOTBALL IS FLUSH WITH THE SURROUNDING SOIL SURFACE. THE MULCH IS TO BE 100MM DEEP.  
 TREES ARE TO BE STAKED WITH TWO HARDWOOD STAVES DRIVEN FIRMLY INTO THE GROUND BUT NOT THROUGH THE ROOTBALL. TREES ARE TO BE SECURED TO THE STAKES WITH ROPS OR STRAPS. MULCH IS TO BE APPLIED TO THE GROUND WITHIN THE STAKING AREA.  
 TREES ARE TO BE STAKED WITH TWO HARDWOOD STAVES DRIVEN FIRMLY INTO THE GROUND BUT NOT THROUGH THE ROOTBALL. TREES ARE TO BE SECURED TO THE STAKES WITH ROPS OR STRAPS. MULCH IS TO BE APPLIED TO THE GROUND WITHIN THE STAKING AREA.  
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 TREES ARE TO BE STAKED WITH TWO HARDWOOD STAVES DRIVEN FIRMLY INTO THE GROUND BUT NOT THROUGH THE ROOTBALL. TREES ARE TO BE SECURED TO THE STAKES WITH ROPS OR STRAPS. MULCH IS TO BE APPLIED TO THE GROUND WITHIN THE STAKING AREA.

**DRAINAGE**  
 SURFACE AND SUB-SURFACE DRAINAGE IS TO BE SPECIFIED BY A CERTIFIED CONSULTING ENGINEER.

## LANDSCAPE PLAN OVERALL LANDSCAPE 2 TOBRUK STREET - MORWELL - VIC

EVERYONE  
 A DIVISION OF METRICON

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 PAGE NO.: 1  
 DATE: 15/01/2024



### LEGEND

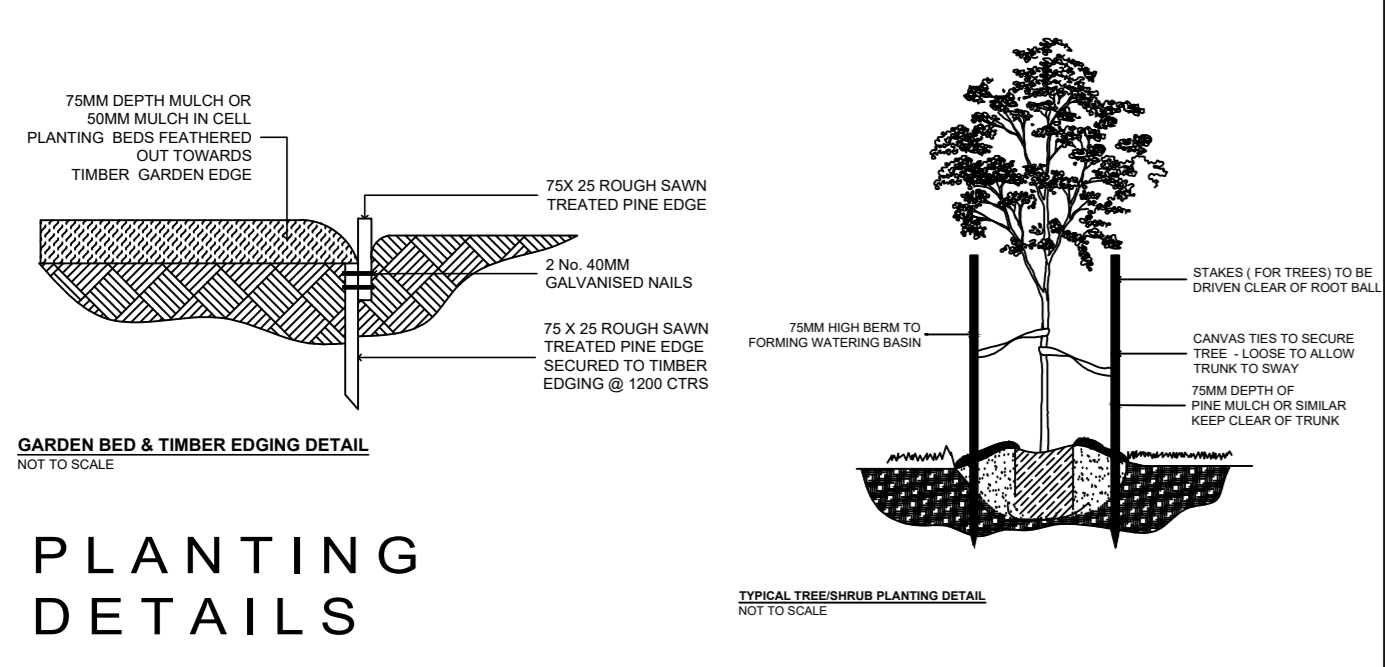
- DROUGHT TOLERANT TURF GRASS BUFFALO OR SIMILAR
- MULCHED GARDEN BED  
MULCH: DYED/BLACK FINE PINE BARK (MIN. 20MM DEEP)  
TOPSOIL: SANDY LOAM (MIN. 200MM DEEP)
- PAVING FENCE  
1.8M UNLESS STATED OTHERWISE
- GARDEN EDGING  
75 X 25mm TREATED PINE EDGING
- EXISTING TREES TO BE REMOVED AS PER ARBORIST REPORT

### NOTES

- ALL LEVELS ARE TO A.H.D.
- PROPOSED INTERNAL FENCING TO BE 1.8M HIGH TIMBER PAULINGS UNLESS OTHERWISE NOTED.
- ALL BOUNDARY FENCES ARE EXISTING AND ARE TO REMAIN (EXCEPT WHERE WALL PROPOSED ON BOUNDARY).
- ALL LANDSCAPING SHOWN IS CONCEPTUAL AND INDICATIVE ONLY.
- 6 CUBIC METERS OF STORAGE IS PROVIDED WITHIN GARDEN SHED UNLESS OTHERWISE NOTED.
- UNLESS SPECIFIED OTHERWISE, ALL STEP TREADS ARE TO BE 320 - 350MM DEEP, STEP RISERS TO BE MAXIMUM 180MM HIGH.

### PLANTING SCHEDULE

SPECIES	COMMON NAME	POT SIZE	H.X.W.	QTY.
LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	CREPE MYRTLE	45L	8 X 8M	18
ACACIA IMPLEXA	LIGHT WOOD	45L	10 X 4M	18
CALLISTEMON 'KINGS PARK SPECIAL'	BOTTLE BRUSH	45L	2-4 X 2-4M	15
DIETSES GRANDIFLORA	WILD IRIS	14CM	1.5-1 X 1.2M	14



### LANDSCAPE CONSTRUCTION SPECIFICATIONS

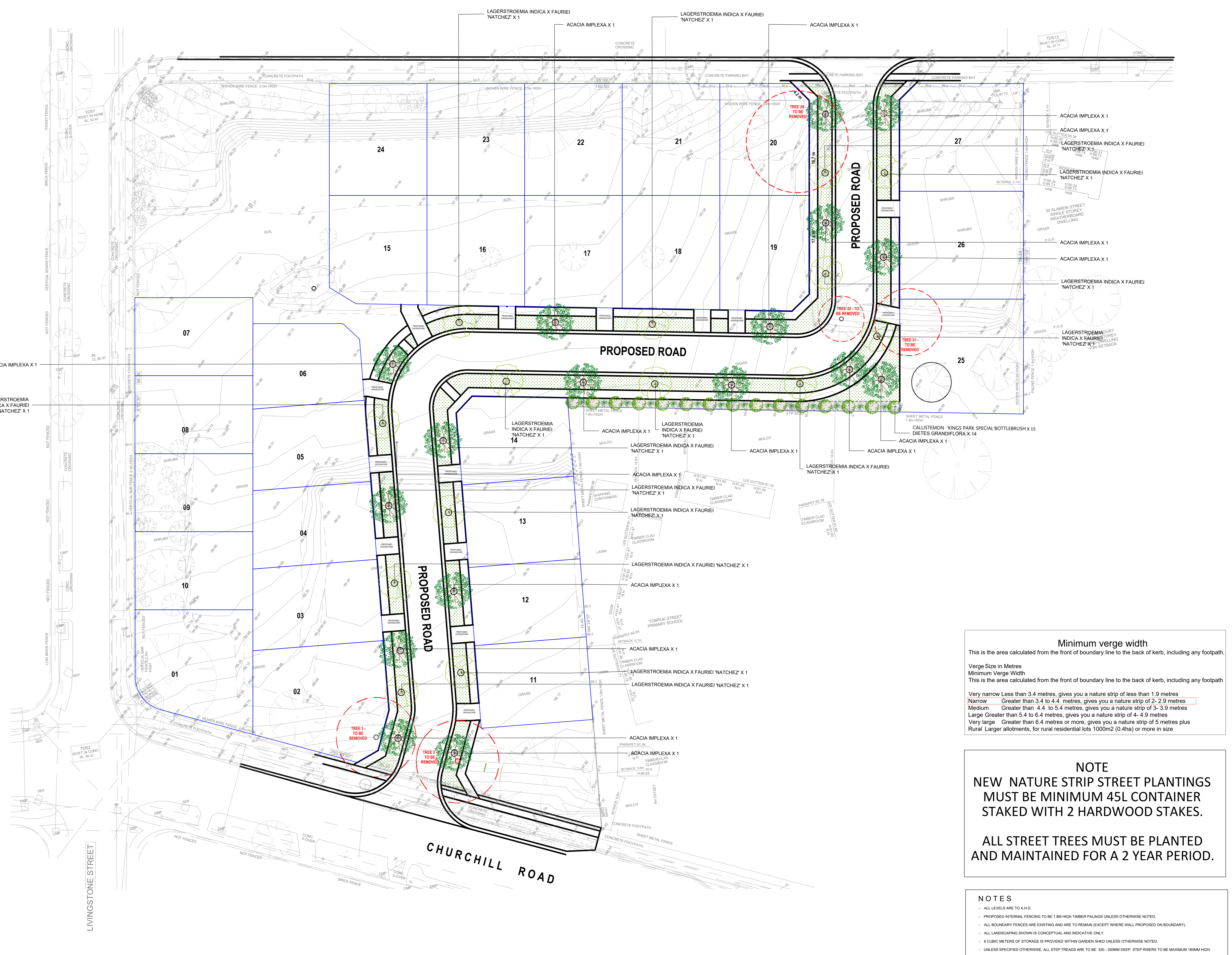
**SUBGRADE PREPARATION:**  
SITE PREPARATION TO BE CARRIED OUT UNDER SUITABLE CONDITIONS IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE. THE USE OF MACHINERY OR TOOLS THAT MAY DAMAGE SOIL STRUCTURE IS NOT ACCEPTABLE.  
GARDEN BED AND LAWN SUB-GRADE IS CULTIVATED TO A DEPTH OF 150MM AN SHAPED TO ACHIEVE DRAINAGE FALL PRIOR TO ADDING TOPSOIL. IF GYPSUM IS REQUIRED, THIS IS TO BE DISTRIBUTED AND CULTIVATED INTO THE SUB-GRADE AS PER THE MANUFACTURER'S INSTRUCTIONS.  
WEEDS ARE TO BE REMOVED PRIOR TO SUB-GRADE PREPARATION, TOP-SOILING AN PLANTING.

**SOIL PREPARATION:**  
IMPORTED TOPSOIL IS TO BE SUPPLIED BY AN APPROVED SUPPLIER TO A DEPTH OF APPROXIMATELY 100MM (AS REQUIRED) FOR GARDEN BEDS. DO NOT SPREAD IN MUDDY CONDITIONS. THE TOPSOIL IS TO BE LIGHT TO MEDIUM FRIABLE LOAM (CAPABLE OF BEING COMPRESSED INTO A BALL BY HAND WHEN MOIST YET CAN BE BROKEN APART IMMEDIATELY AFTER ITS PH WILL BE 6.0 - 7.0) AN FREE FROM PERENNIAL WEEDS AN BUILDING RUBBLE. THE FINISHED TOP LEVEL AFTER SETTLEMENT SHOULD BE 75MM BELOW THE EDGING TO ALLOW FOR MULCH. IMPORTED TOPSOIL FOR LAWN AREAS TO BE SUPPLIED TO A DEPTH OF APPROXIMATELY 100MM (OR AS REQUIRED).

**TIMBER EDGING:**  
TIMBER EDGING TO BE INSTALLED TO SEPARATE ALL LAWN, PLANTING AREAS AN LILYDALE TOPPING/PEBBLE AREAS. THE TREATED PINE TIMBER IS TO BE 75MM X 25MM IN SIZE, SECURED WITH 300MM LONG STAKES AT 1000MM SPACINGS.

**PLANTS AN PLANTING:**  
TREES AN PLANTS SUPPLIED ARE TO BE HEALTHY AN FREE FROM INSECTS, DISEASES AN WEEDS. THE POT SIZE INDICATED IN THE PLANT SCHEDULE ARE THE MINIMUM SIZE TO BE SUPPLIED AN INSTALLED.  
WHEN EACH PLANTING AREA IS PREPARED, IF SOIL IS DRY, FILL WITH WATER AN ALLOW TO DRAIN AWAY COMPLETELY. PLANTS ROOTS ARE TO BE TEASED OUTWARDS IF ROOTS ARE MATTED IN POT. PLACE PLANT IN CENTRE OF HOLE AN ENSURE THAT THE TOP OF THE ROOTBALL IS FLUSH WITH THE SURROUNDING SOIL SURFACE AN THE TRUCK IS VERTICAL.  
TREES ARE TO BE STAKED WITH TWO HARDWOOD STAKES DRIVEN FIRMLY INTO THE GROUND BUT NOT THROUGH THE ROOTBALL. TREES ARE TO BE SECURED TO THE STAKES WITH STRONG BUT FLEXIBLE TREE TIES THAT ARE TIGHT ENOUGH TO SUPPORT THE TREES IN WINDY CONDITIONS BUT LOOSE ENOUGH TO SIMULATE GOOD TREE GROWTH AN DEVELOPMENT. THE TREE TIES MUST NOT INJURE TREE BARK OR RESTRICT TREE GROWTH FOR AT LEAST THE FIRST THREE YEARS OF TREE GROWTH.  
A SLOW RELEASE FERTILISER (E.G. OSMOCOTE OR SIMILAR) IS TO BE APPLIED TO ALL GARDEN BEDS AS SPECIFIED BY THE MANUFACTURER AN BE KEPT AWAY FROM THE PLANT TRUNKS AN THEN WATERED IMMEDIATELY. A LAYER OF AGED ORGANIC MULCH TO A MINIMUM DEPTH OF 75MM IS TO BE APPLIED TO ALL PLANTING AREAS AFTER PLANTING IS COMPLETED.

**DRAINAGE:**  
SURFACE AN SUB-SURFACE DRAINAGE IS TO BE SPECIFIED BY A CERTIFIED CONSULTING ENGINEER.



**Minimum verge width**  
This is the area calculated from the front of boundary line to the back of kerb, including any footpath.

**Verge Size in Metres**  
Minimum Verge Width  
This is the area calculated from the front of boundary line to the back of kerb, including any footpath.

Very narrow Less than 3.4 metres, gives you a nature strip of less than 1.9 metres  
Narrow Greater than 3.4 to 4.4 metres, gives you a nature strip of 2- 2.9 metres  
Medium Greater than 4.4 to 5.4 metres, gives you a nature strip of 3- 3.9 metres  
Large Greater than 5.4 to 6.4 metres, gives you a nature strip of 4- 4.9 metres  
Very large Greater than 6.4 metres or more, gives you a nature strip of 5 metres plus  
Rural Larger allotments, for rural residential lots 100m2 (0.4ha) or more in size

**NOTE**  
NEW NATURE STRIP STREET PLANTINGS MUST BE MINIMUM 45L CONTAINER STAKED WITH 2 HARDWOOD STAKES.  
ALL STREET TREES MUST BE PLANTED AND MAINTAINED FOR A 2 YEAR PERIOD.

### NOTES

- ALL LEVELS ARE TO A.H.D.
- PROPOSED INTERNAL FENCING TO BE 1.8M HIGH TIMBER PAULINGS UNLESS OTHERWISE NOTED.
- ALL BOUNDARY FENCES ARE EXISTING AND ARE TO REMAIN (EXCEPT WHERE WALL PROPOSED ON BOUNDARY).
- ALL LANDSCAPING SHOWN IS CONCEPTUAL AND INDICATIVE ONLY.
- 6 CUBIC METERS OF STORAGE IS PROVIDED WITHIN GARDEN SHED UNLESS OTHERWISE NOTED.
- UNLESS SPECIFIED OTHERWISE, ALL STEP TREADS ARE TO BE 320 - 350MM DEEP, STEP RISERS TO BE MAXIMUM 180MM HIGH.



## LANDSCAPE PLAN PROPOSED ROAD STREETSCAPE 2 TOBRUK STREET - MORWELL - VIC



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### LEGEND

- COMPACTED GRANITE SCREENINGS
- DROUGHT TOLERANT TURF GRASS BUFFALO OR SIMILAR
- PERMEABLE CONCRETE DRIVEWAY
- CHARCOAL COLOURED CONCRETE
- MULCHED GARDEN BED  
MULCH: DYED-BLACK FINE PINE BARK (MIN. 50MM DEEP)  
TOPSOIL: SANDY LOAM (MIN. 250MM DEEP)
- PALING FENCE 1.8M UNLESS STATED OTHERWISE
- GARDEN EDGING 75 x 25mm TREATED PINE EDGING
- RUBBISH BINS
- CLOTHES LINE
- RETAINING WALL AS PER HOBBIE CONSTRUCTION DRAWINGS
- 900MM HIGH MAX. LETTER BOX
- TREES REMOVED AS PER ARBORIST REPORT

### NOTES

- ALL LEVELS ARE TO A.H.D.
- PROPOSED INTERNAL FENCING TO BE 1.8M HIGH TIMBER PALINGS UNLESS OTHERWISE NOTED.
- ALL BOUNDARY FENCES ARE EXISTING AND ARE TO REMAIN (EXCEPT WHERE WALL PROPOSED ON BOUNDARY).
- ALL LANDSCAPING SHOWN IS CONCEPTUAL AND INDICATIVE ONLY.
- 6 CUBIC METERS OF STORAGE IS PROVIDED WITHIN GARDEN SHED UNLESS OTHERWISE NOTED.
- UNLESS SPECIFIED OTHERWISE, ALL STEP TREADS ARE TO BE 300 - 350MM DEEP, STEP RISERS TO BE MAXIMUM 180MM HIGH.

### PLANTING SCHEDULE

SPECIES	COMMON NAME	POT SIZE	H X W	QTY
	WESTRINGIA FRUTICOSA GREY BOX	14CM	1.0X 1.0M	11
	DIANELLA LITTLE REV	14CM	0.6X0.6M	42
	CORREA PULCHELLA X REFLEXA	14CM	0.6 X 2M	8
	LOMANDRA CONFERTIFOLIA 'LITTLE CON'	14CM	0.6 X 0.6M	28
	TRISTANIOPSIS LAURINA	25CM (400mm H)	12-15 X 4-6M	2
	EUCALYPTUS MELLIODORA	40L (200mm H)	10-15 X 8-10M	2
	LOMANDRA LONGIFOLIA	14CM	1.2-1 X 1.0M	32
	MYOPORUM PARVIFOLIUM	14CM	0.15 X 1.0M	12
	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	25CM (400mm H)	5 X 2.5M	2
	PYRUS CALLERYANA 'CHANTICLEER'	25CM (400mm H)	11 X 6M	3
	ACACIA MELANOXYLON	40CM (200mm H)	12-15 X 5M	3

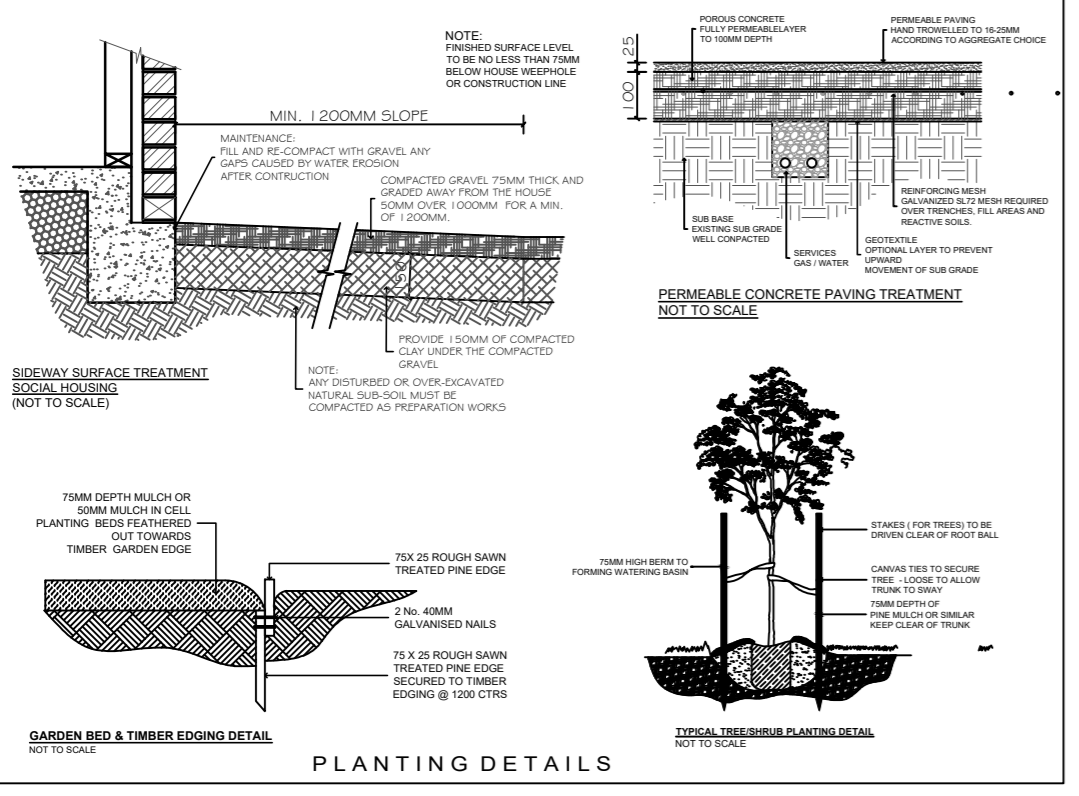
### LANDSCAPE CONSTRUCTION SPECIFICATIONS

**SUBGRADE PREPARATION:** SITE PREPARATION TO BE CARRIED OUT UNDER SUITABLE CONDITIONS IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE. THE USE OF MACHINERY OR TOOLS THAT MAY CHANGE SOIL STRUCTURE IS NOT ACCEPTABLE. EXISTING SUBGRADE TO BE EXAMINED AND WHERE NECESSARY TO BE REGRADED TO A MINIMUM OF 100MM ABOVE FINISH GRADE. ALL EXISTING SUBGRADE TO BE EXAMINED AND WHERE NECESSARY TO BE REGRADED TO A MINIMUM OF 100MM ABOVE FINISH GRADE. ALL EXISTING SUBGRADE TO BE EXAMINED AND WHERE NECESSARY TO BE REGRADED TO A MINIMUM OF 100MM ABOVE FINISH GRADE.

**SOIL PREPARATION:** TOPSOIL IS TO BE SUPPLIED BY AN APPROVED SUPPLIER TO A DEPTH OF APPROXIMATELY 100MM AS REQUIRED. FOR GARDEN BEDS, DO NOT SPREAD IN MOIST CONDITIONS. THE TOPSOIL IS TO BE LIGHT TO MEDIUM FRAME LOAM CAPABLE OF BEING COMPRESSED INTO A BALL BY HAND WHEN MOIST. IT CAN BE BROKEN APART EASILY. AFTER THE TOPSOIL IS LAYED TO A DEPTH OF APPROXIMATELY 100MM, IT IS TO BE DISTURBED AND OXIDIZED INTO THE SUB-GRADE AS PER THE MANUFACTURER'S INSTRUCTIONS. THE FINISHED TOP LEVEL AFTER SETTLEMENT SHOULD BE 10MM BELOW THE EDGING LEVEL TO ALLOW FOR MULCH. IMPORTED TOPSOIL FOR LAWN AREAS IS TO BE SUPPLIED TO A DEPTH OF APPROXIMATELY 100MM (OR AS REQUIRED).

**TREES EDGING:** TREES EDGING TO BE INSTALLED TO SEPARATE ALL LAWN PLANTING AREAS FROM ADJACENT AREAS. THE EDGING IS TO BE 75MM X 25MM IN SIZE, SECURED WITH 50MM LONG STAKES AT 1000MM SPACINGS.

**PLANTS TO BE PLANTED:** PLANTS TO BE PLANTED ARE TO BE HEALTHY AND FREE FROM INSECT DISEASES AND WEEDS. THE POT SIZE INDICATED IN THE PLANT SCHEDULE ARE THE MINIMUM SIZE TO BE SUPPLIED. AN INSTALLED PLANT IS TO BE PLANTED IN A HOLE THAT IS 20% LARGER THAN THE POT. PLANTS ARE TO BE PLANTED IN A HOLE THAT IS 20% LARGER THAN THE POT. PLANTS ARE TO BE PLANTED IN A HOLE THAT IS 20% LARGER THAN THE POT.



LANDSCAPE PLAN  
HOUSE 2 - 6  
2 TOBRUK STREET - MORWELL - VIC



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### LEGEND

- COMPACTED GRANITE SCREENINGS
- DROUGHT TOLERANT TURF GRASS BUFFALO OR SIMILAR
- PERMEABLE CONCRETE DRIVEWAY
- CHARCOAL COLOURED CONCRETE
- MULCHED GARDEN BED
- MULCH: 100MM DEEP FINE PINE BARK (MIN. 60MM DEEP)
- TOPSOIL: SANDY LOAM (MIN. 200MM DEEP)
- PALING FENCE 1.8M UNLESS STATED OTHERWISE
- GARDEN EDGING 75 x 20mm TREATED PINE EDGING
- RUBBISH BINS
- CLOTHES LINE
- RETAINING WALL AS PER HOUSE CONSTRUCTION DRAWINGS
- 900MM HIGH MAX. LETTER BOX
- TREES/SHRUBS REMOVED AS PER ARBORIST REPORT

- ### NOTES
- ALL LEVELS ARE TO A.H.D.
  - PROPOSED INTERNAL FENCING TO BE 1.8M HIGH PALING UNLESS OTHERWISE NOTED.
  - ALL BOUNDARY FENCES ARE EXISTING AND ARE TO REMAIN EXCEPT WHERE WALL PROPOSED ON BOUNDARY.
  - ALL LANDSCAPING SHOWN IS CONCEPTUAL AND INDICATIVE ONLY.
  - 6 CUBIC METERS OF STORAGE IS PROVIDED WITHIN GARDEN SHED UNLESS OTHERWISE NOTED.
  - UNLESS SPECIFIED OTHERWISE, ALL STEP TREADS ARE TO BE 300 - 350MM DEEP, STEP RISERS TO BE MAXIMUM 180MM HIGH.

### PLANTING SCHEDULE

SPECIES	COMMON NAME	POT SIZE	H X W	QTY
WESTRINGIA FRUTICOSA GREY BOX	COASTAL ROSEMARY	14CM	1.0 X 1.0M	21
DIANELLA LITTLE REV	BLACKATHER FLAX LILY	14CM	0.6X0.6M	53
CORREA PULCHELLA X REFLEXA	CORREA 'DUSKY BELLS'	14CM	0.6 X 2M	13
LOMANDRA CONFERTIFOLIA 'LITTLE CON'	LOMANDRA 'LITTLE CON'	14CM	0.6 X 0.6M	36
TRISTANIOPSIS LAURINA	KANDOKA GUM	40L	12-15 X 4-6M	3
EUCALYPTUS MELLIODORA	YELLOW BOX	40L	10-15 X 8-10M	4
LOMANDRA LONGIFOLIA	SPRUY HEADED MAT RUSH	14CM	1.2-1 X 1.0M	46
MYOPORUM PARVIFOLIUM	CREeping BOOBIALLA	14CM	0.15 X 1.0M	30
MAGNOLIA GRANDIFLORA LITTLE GEM	DWARF MAGNOLIA	40L	1.2 X 2.5M	4
PYRUS CALLERYANA CHANTICLEER	BRADFORD PEAR	40L	1.1 X 0.6M	2
ACACIA MELANOXYLON	BLACKWOOD	40L	12-15 X 0.9M	2

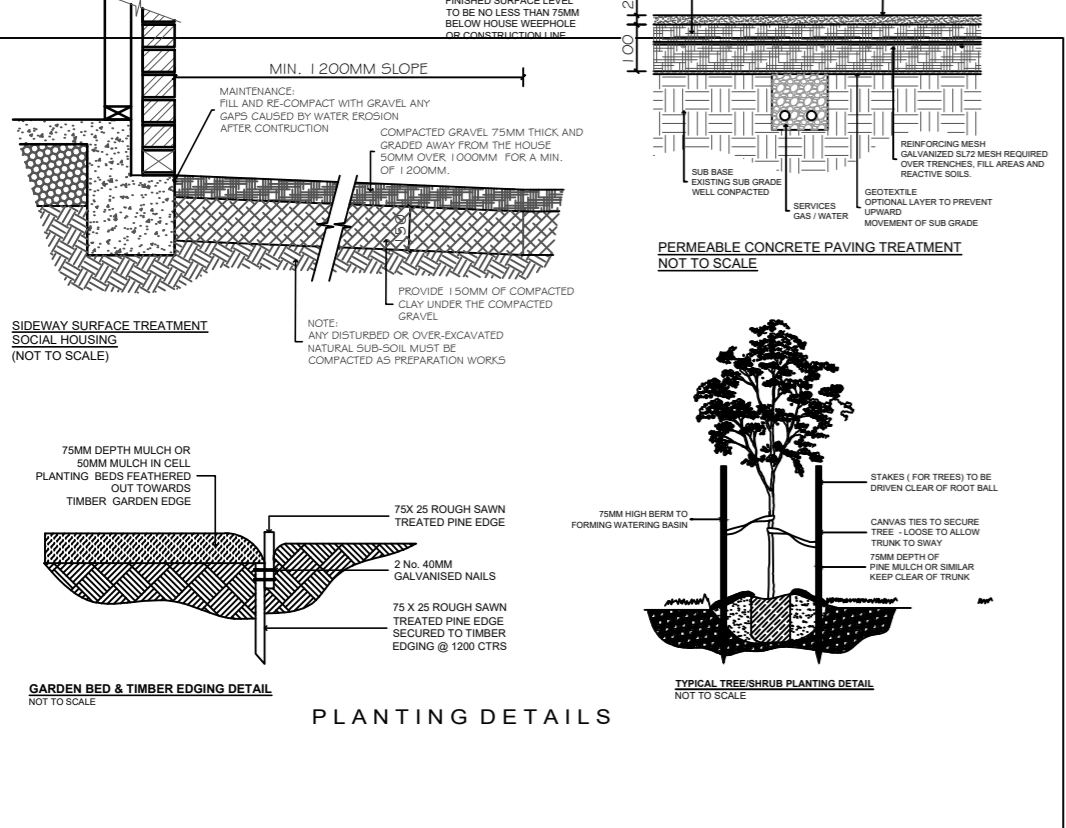
### LANDSCAPE CONSTRUCTION SPECIFICATIONS

**SUBGRADE PREPARATION:** SITE PREPARATION TO BE CARRIED OUT UNDER SUITABLE CONDITIONS IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE. THE USE OF MACHINERY OR TOOLS THAT MAY CHANGE SOIL STRUCTURE IS NOT ACCEPTABLE.

**SOIL PREPARATION:** IMPORTED TOPSOIL IS TO BE SUPPLIED BY AN APPROVED SUPPLIER TO A DEPTH OF APPROXIMATELY 100MM (AS REQUIRED) FOR GARDEN BEDS. DO NOT SPREAD IN MUDDY CONDITIONS. THE TOPSOIL IS TO BE 100% FREE FROM INERTS, DISEASES AND WEEDS. THE POT SIZE INDICATED IN THE PLANT SCHEDULE ARE THE MINIMUM SIZE TO BE SUPPLIED AND INSTALLED.

**PLANTS AND PLANTING:** TREES AND SHRUBS SUPPLIED ARE TO BE HEALTHY AND FREE FROM INSECTS, DISEASES AND WEEDS. THE POT SIZE INDICATED IN THE PLANT SCHEDULE ARE THE MINIMUM SIZE TO BE SUPPLIED AND INSTALLED.

**DRAINAGE:** SURFACE AND SUB-SURFACE DRAINAGE IS TO BE SPECIFIED BY A CERTIFIED CONSULTING ENGINEER.



### LEGEND

- COMPACTED GRANITE SCREENINGS
- DROUGHT TOLERANT TURF GRASS BUFFALO OR SIMILAR
- PERMEABLE CONCRETE DRIVEWAY
- CHARCOAL COLOURED CONCRETE
- MULCHED GARDEN BED  
MULCH: DYED-BLACK FINE PINE BARK (MIN. 50MM DEEP)  
TOPSOIL: SANDY LOAM (MIN. 250MM DEEP)
- PALING FENCE 1.8M UNLESS STATED OTHERWISE
- GARDEN EDGING 75 x 25mm TREATED PINE EDGING
- RUBBISH BINS
- CLOTHES LINE
- 900MM HIGH MAX. LETTER BOX
- RETAINING WALL AS PER HOUSE CONSTRUCTION DRAWINGS

### NOTES

- ALL LEVELS ARE TO A.H.D.
- PROPOSED INTERNAL FENCING TO BE 1.8M HIGH TIMBER PALINGS UNLESS OTHERWISE NOTED.
- ALL BOUNDARY FENCES ARE EXISTING AND ARE TO REMAIN (EXCEPT WHERE WALL PROPOSED ON BOUNDARY).
- ALL LANDSCAPING SHOWN IS CONCEPTUAL AND INDICATIVE ONLY.
- 4 CURB METERS OF STORAGE IS PROVIDED WITHIN GARDEN SHED UNLESS OTHERWISE NOTED.
- UNLESS SPECIFIED OTHERWISE, ALL STEP TREADS ARE TO BE 300 - 350MM DEEP. STEP RISERS TO BE MAXIMUM 150MM HIGH.

### PLANTING SCHEDULE

SPECIES	COMMON NAME	POT SIZE	LXWX	QTY
	WESTRINGIA FRUTICOSA GREY BOX	14CM	1.0X 1.0M	6
	DIANELLA LITTLE REV	14CM	0.60X 0.6M	44
	CORREA PULCHELLA X REFLEXA	14CM	0.6 X 0.6M	4
	LOMANDRA CONFERTIFOLIA 'LITTLE CON'	14CM	0.6 X 0.6M	20
	TRISTANOPSIS LAURINA	40CM (20% TALL WEED PLANTED)	12-15 X 4-6M	2
	EUCALYPTUS MELLIODORA	40CM (20% TALL WEED PLANTED)	10-15 X 8-10M	2
	LOMANDRA LONGIFOLIA	14CM	1.2-1 X 1.0M	17
	MYOPORUM PARVIFOLIUM	14CM	0.15 X 1.0M	18
	MAGNOLIA GRANDIFLORA LITTLE GEM	40CM (20% TALL WEED PLANTED)	5 X 2.2M	4
	PYRUS CALLERYANA CHANTICLEER	40CM (20% TALL WEED PLANTED)	11 X 6M	3
	ACACIA MELANOXYLON	40CM (20% TALL WEED PLANTED)	12-15 X 5M	2

### LANDSCAPE CONSTRUCTION SPECIFICATIONS

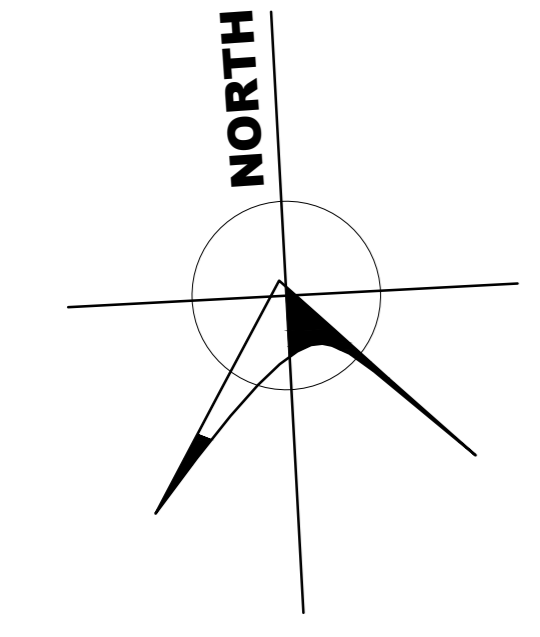
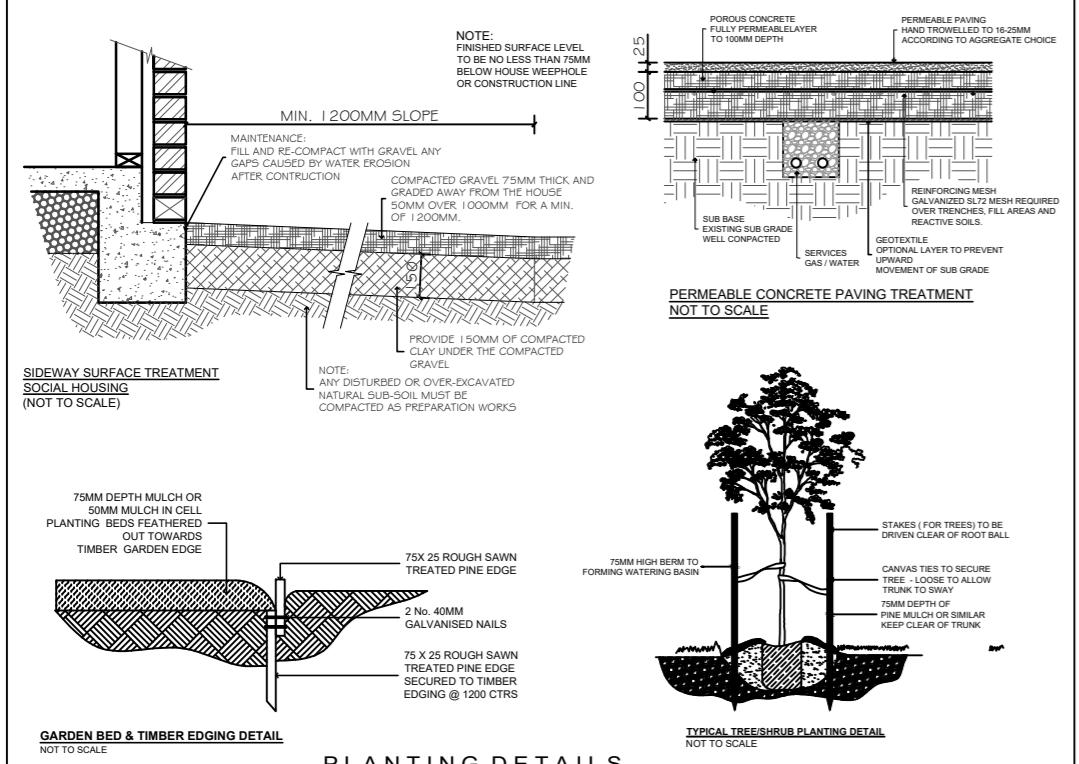
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**SOIL PREPARATION:** TOPSOIL TO BE SUPPLIED BY AN APPROVED SUPPLIER TO A DEPTH OF APPROXIMATELY 100MM (AS REQUIRED). FOR GARDEN BEDS, DO NOT SPREAD IN A SINGLE LAYER. THE TOPSOIL IS TO BE LIGHT TO MEDIUM FRAGILE LOAM CAPABLE OF BEING COMPRESSED INTO A BALL BY HAND WHEN MOST WET. SOIL TO BE BROKEN APART IMMEDIATELY AFTER ITS USE TO PREVENT CRUSTING. SOIL TO BE TESTED FOR PHOSPHORUS AND NITROGEN CONTENTS. SOIL TO BE TESTED FOR PHOSPHORUS AND NITROGEN CONTENTS. SOIL TO BE TESTED FOR PHOSPHORUS AND NITROGEN CONTENTS. SOIL TO BE TESTED FOR PHOSPHORUS AND NITROGEN CONTENTS.

**TIMBER EDGING:** TIMBER EDGING TO BE INSTALLED TO SEPARATE ALL LAWN PLANTING AREAS AND ALL LAWN TOPPING/FEEDER AREAS. THE TIMBER EDGING IS TO BE 75MM X 25MM IN SIZE, RECESSED WITH 50MM LONG STAKES AT 1000MM SPACINGS.

**PLANTS AT PLANTING:** PLANTS TO BE HEALTHY AND FREE FROM INSECTS, DISEASES AND WEEDS. THE POT SIZE INDICATED IN THE PLANT SCHEDULE ARE THE MINIMUM SIZE TO BE SUPPLIED AND INSTALLED. PLANTS TO BE PLANTED IN A CENTRE OF HOLE AN ENOUGH TO BE TRIMMED OUTWARD IF ROOTS ARE MATTED IN POT. PLACE PLANT IN CENTRE OF HOLE AN ENOUGH TO BE TRIMMED OUTWARD IF ROOTS ARE MATTED IN POT. PLACE PLANT IN CENTRE OF HOLE AN ENOUGH TO BE TRIMMED OUTWARD IF ROOTS ARE MATTED IN POT.

**PLANTING DETAILS:** SEE PLANTING DETAILS FOR MORE INFORMATION.



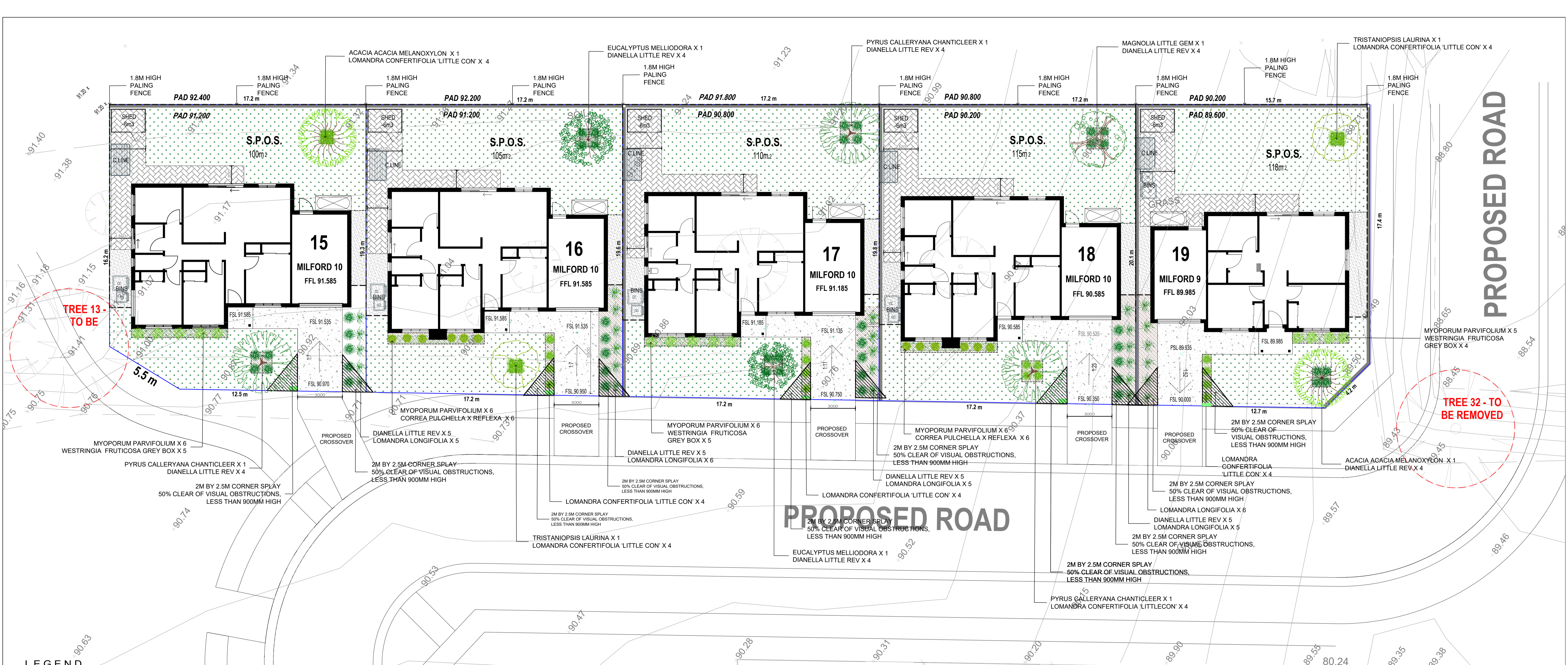
## LANDSCAPE PLAN HOUSE 11 - 14

2 TOBRUK STREET - MORWELL - VIC



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### LEGEND

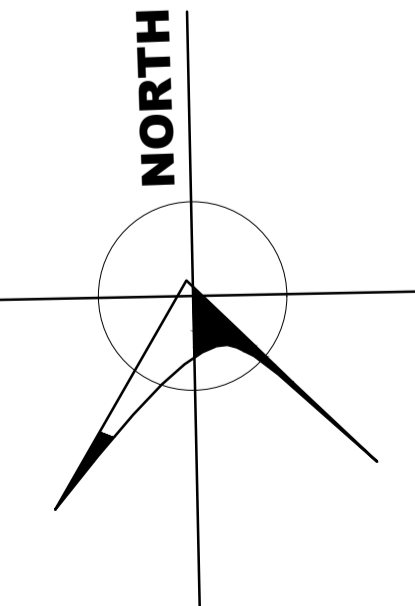
- COMPACTED GRANITE SCREENINGS
- DROUGHT TOLERANT TURF GRASS (BUFFALO OR SIMILAR)
- PERMEABLE CONCRETE PATH
- CHARCOAL COLOURED CONCRETE
- MULCHED GARDEN BED (MULCH: DYED-BLACK FINE PINE BARK (MIN. 50MM DEEP) TOPSOIL: SANDY LOAM (MIN. 250MM DEEP))
- PALING FENCE 1.8M UNLESS STATED OTHERWISE
- GARDEN EDGING 75 x 25mm TREATED PINE EDGING
- RUBBISH BINS
- CLOTHES LINE
- RETAINING WALL
- 900MM HIGH MAX. LETTER BOX
- TREES REMOVED AS PER ARBORIST REPORT
- WATER TANK FOR IRRIGATION

### PLANTING SCHEDULE

SPECIES	COMMON NAME	POT SIZE	H X W	QTY.	
	WESTRINGIA FRUTICOSA GREY BOX	COASTAL ROSEMARY	14CM	1.0X 1.0M	15
	DIANELLA LITTLE REV	BLACK-ATHER FLAX-LILY	14CM	0.6X 0.6M	44
	CORREA PULCHELLA X REFLEXA	CORREA 'DUSKY BELLS'	14CM	0.6 X 2M	12
	LOMANDRA CONFERTIFOLIA 'LITTLE CON'	LOMANDRA 'LITTLE CON'	14CM	0.6 X 0.6M	24
	TRISTANIOPSIS LAURINA	KANOOKA GUM	40CM (200 TALL WHEN PLANTED)	12-15 X 4-6M	2
	EUCALYPTUS MELLIODORA	YELLOW BOX	40CM (200 TALL WHEN PLANTED)	10-15 X 6-10M	2
	LOMANDRA LONGIFOLIA	SPINY HEADED MAT RUSH	14CM	1.2-1 X 1.0M	27
	MYOPORUM PARVIFOLIUM	CREeping BOOBIALLA	14CM	0.15 X 1.0M	29
	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	DWARF MAGNOLIA	40CM (200 TALL WHEN PLANTED)	5 X 2.5M	2
	PYRUS CALLERYANA 'CHANTICLEER'	BRADFORD PEAR	40CM (200 TALL WHEN PLANTED)	11 X 6M	2
	ACACIA MELANOXYLON	BLACKWOOD WATTLE	40CM (200 TALL WHEN PLANTED)	12-15 X 5M	3

### NOTES

- ALL LEVELS ARE TO A.H.D.
- PROPOSED INTERNAL FENCING TO BE 1.8M HIGH TIMBER PALINGS UNLESS OTHERWISE NOTED.
- ALL BOUNDARY FENCES ARE EXISTING AND ARE TO REMAIN EXCEPT WHERE WALL PROPOSED ON BOUNDARY.
- ALL LANDSCAPING SHOWN IS CONCEPTUAL AND INDICATIVE ONLY.
- 6 CUBIC METERS OF STORAGE IS PROVIDED WITHIN GARDEN SHED UNLESS OTHERWISE NOTED.
- UNLESS SPECIFIED OTHERWISE, ALL STEP TREADS ARE TO BE 300 - 350MM DEEP. STEP RISERS TO BE MAXIMUM 180MM HIGH.



### LANDSCAPE CONSTRUCTION SPECIFICATIONS

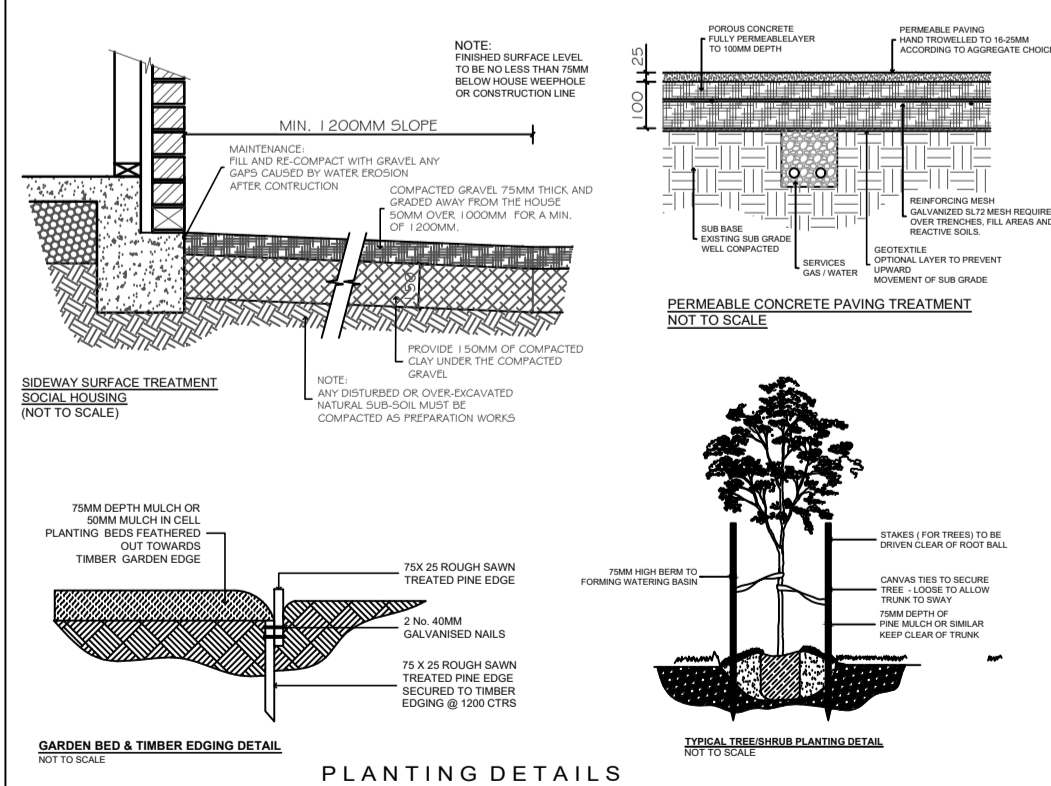
**SUBGRADE PREPARATION:** SITE PREPARATION TO BE CARRIED OUT UNDER SUITABLE CONDITIONS IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE. THE USE OF MACHINERY OR TOOLS THAT MAY DAMAGE SOIL STRUCTURE IS NOT ACCEPTABLE. GARDEN BED AND LAWN SUB-GRADE IS CULTIVATED TO A DEPTH OF 150MM SHAPED TO ACHIEVE DRAINAGE FALL PRIOR TO ADDING TOPSOIL. IF GYPSUM IS REQUIRED, THIS IS TO BE DISTRIBUTED AND CULTIVATED INTO THE SUB-GRADE AS PER THE MANUFACTURER'S INSTRUCTIONS. WEEDS ARE TO BE REMOVED PRIOR TO SUB-GRADE PREPARATION, TOP-SOILING AND PLANTING.

**SOIL PREPARATION:** IMPORTED TOPSOIL IS TO BE SUPPLIED BY AN APPROVED SUPPLIER TO A DEPTH OF APPROXIMATELY 100MM (AS REQUIRED) FOR GARDEN BEDS. DO NOT SPREAD IN MUDDY CONDITIONS. THE TOPSOIL IS TO BE LIGHT TO MEDIUM FRABLE LOAM (CAPABLE OF BEING COMPRESSED INTO A BALL BY HAND WHEN MOIST YET CAN BE BROKEN APART IMMEDIATELY AFTER) ITS PH WILL BE 6.0 - 7.0 AN FREE FROM PERENNIAL WEEDS AND BUILDING RUBBLE. THE FINISHED TOP LEVEL AFTER SETTLEMENT SHOULD BE 75MM BELOW THE EDGING LEVEL TO ALLOW FOR MULCH. IMPORTED TOPSOIL FOR LAWN AREAS TO BE SUPPLIED TO A DEPTH OF APPROXIMATELY 100MM (OR AS REQUIRED).

**TIMBER EDGING:** TIMBER EDGING TO BE INSTALLED TO SEPARATE ALL LAWN, PLANTING AREAS AND LILYPALE TOPPING/PEBBLE AREAS. THE TREATED PINE TIMBER IS TO BE 75MM X 25MM IN SIZE, SECURED WITH 300MM LONG STAKES AT 1000MM SPACINGS.

**PLANTS AND PLANTING:** TREES AND PLANTS SUPPLIED ARE TO BE HEALTHY AND FREE FROM INSECTS, DISEASES AND WEEDS. THE POT SIZE INDICATED IN THE PLANT SCHEDULE ARE THE MINIMUM SIZE TO BE SUPPLIED AND INSTALLED. WHEN EACH PLANTING AREA IS PREPARED, IF SOIL IS DRY, FILL WITH WATER AND ALLOW TO DRAIN AWAY COMPLETELY. PLANTS ROOTS ARE TO BE SEASED OUTWARDS IF ROOTS ARE MATTED IN POT. PLACE PLANT IN CENTRE OF HOLE AND ENSURE THAT THE TOP OF THE ROOTBALL IS FLUSH WITH THE SURROUNDING SOIL SURFACE AND THE TRUCK IS VERTICAL. TREES ARE TO BE STAKED WITH TWO HARDWOOD STAKES DRIVEN FIRMLY INTO THE GROUND BUT NOT THROUGH THE ROOTBALL. TREES ARE TO BE SECURED TO THE STAKES WITH STRONG BUT FLEXIBLE TREE TIES THAT ARE TIGHT ENOUGH TO SUPPORT THE TREES IN WINDY CONDITIONS BUT LOOSE ENOUGH TO SIMULATE GOOD TREE GROWTH AND DEVELOPMENT. THE TREE TIES MUST NOT INJURE TREE BARK OR RESTRICT TREE GROWTH FOR AT LEAST THE FIRST THREE YEARS OF TREE GROWTH. A SLOW RELEASE FERTILISER (E.G. OSMOCOOTE OR SIMILAR) IS TO BE APPLIED TO ALL GARDEN BEDS AS SPECIFIED BY THE MANUFACTURER AND KEPT AWAY FROM THE PLANT TRUNKS AND THEN WATERED IMMEDIATELY. A LAYER OF AGED ORGANIC MULCH TO A MINIMUM DEPTH OF 75MM IS TO BE APPLIED TO ALL PLANTING AREAS AFTER PLANTING IS COMPLETED.

**DRAINAGE:** SURFACE AND SUB-SURFACE DRAINAGE IS TO BE SPECIFIED BY A CERTIFIED CONSULTING ENGINEER.



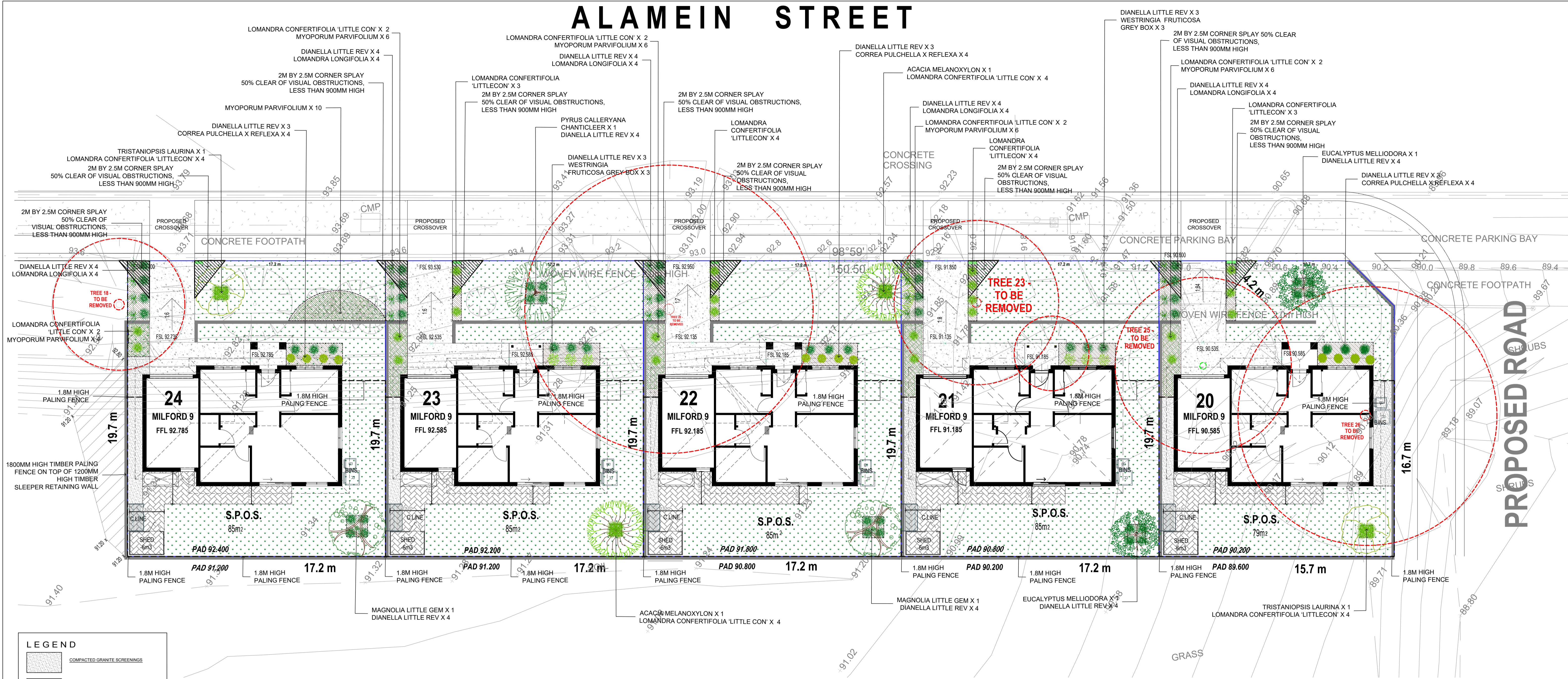
## LANDSCAPE PLAN HOUSE 15 - 19

2 TOBRUK STREET - MORWELL - VIC



REVISION: V3  
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# ALAMEIN STREET



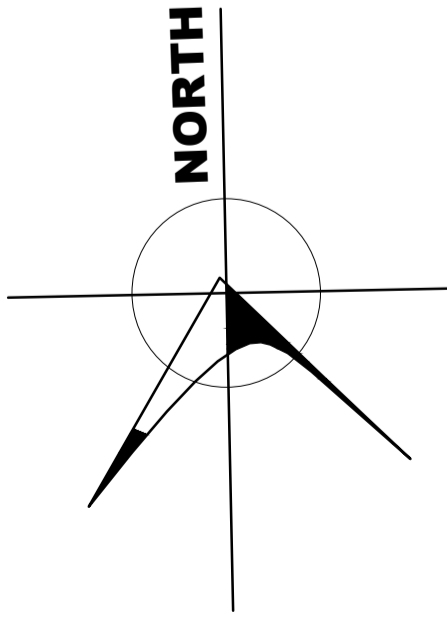
### LEGEND

- COMPACTED GRANITE SCREENINGS
- DROUGHT TOLERANT TURF GRASS BUFFALO OR SIMILAR
- PERMEABLE CONCRETE PATH
- CHARCOAL COLOURED CONCRETE
- MULCHED GARDEN BED MULCH DYED-BLACK FINE PINE BARK (MIN. 80MM DEEP) TOPSOIL SANDY LOAM (MIN. 250MM DEEP)
- PALING FENCE 1.8M UNLESS STATED OTHERWISE
- GARDEN EDGING 75 X 25mm TREATED PINE EDGING
- RUBBISH BINS
- CLOTHES LINE
- RETAINING WALL
- 900MM HIGH MAX. LETTER BOX
- TREES REMOVED AS PER ARCHITECT REPORT
- WATER TANK FOR IRRIGATION

### PLANTING SCHEDULE

SPECIES	COMMON NAME	POT SIZE	H X W	QTY.
WESTRINGIA FRUTICOSA GREY BOX	COASTAL ROSEMARY	14CM	1.0X 1.0M	6
DIANELLA LITTLE REV	BLACK-ATHER FLAX-LILY	14CM	0.6X0.6M	55
CORREA PULCHELLA X REFLEXA	CORREA 'DUSKY BELLS'	14CM	0.6 X 2M	12
LOMANDRA CONFERTIFOLIA 'LITTLE CON'	LOMANDRA 'LITTLE CON'	14CM	0.6 X 0.6M	18
TRISTANIOPSIS LAURINA	KANOOKA GUM	40CM (2M FALL WHEN PLANTED)	12-15 X 4-8M	2
EUCALYPTUS MELLIODORA	YELLOW BOX	40CM (2M FALL WHEN PLANTED)	10-15 X 8-10M	2
LOMANDRA LONGIFOLIA	SPINY HEADED MAT RUSH	14CM	1.2-1 X 1.0M	20
MYOPORUM PARVIFOLIUM	CREEPING BOOBIALLA	14CM	0.15 X 1.0M	38
MAGNOLIA GRANDIFLORA LITTLE GEM	DWARF MAGNOLIA	40CM (2M FALL WHEN PLANTED)	5 X 2.5M	2
PYRUS CALLERYANA CHANTICLEER	BRADFORD PEAR	40CM (2M FALL WHEN PLANTED)	11 X 8M	2
ACACIA MELANOXYLON	BLACKWOOD WATTLE	40CM (2M FALL WHEN PLANTED)	12-15 X 5M	2

- ### NOTES
- ALL LEVELS ARE TO A.H.D.
  - PROPOSED INTERNAL FENCING TO BE 1.8M HIGH TIMBER PALINGS UNLESS OTHERWISE NOTED.
  - ALL BOUNDARY FENCES ARE EXISTING AND ARE TO REMAIN EXCEPT WHERE WALL PROPOSED ON BOUNDARY.
  - ALL LANDSCAPING SHOWN IS CONCEPTUAL AND INDICATIVE ONLY.
  - 6 CUBIC METERS OF STORAGE IS PROVIDED WITHIN GARDEN SHED UNLESS OTHERWISE NOTED.
  - UNLESS SPECIFIED OTHERWISE, ALL STEP TREADS ARE TO BE 300 - 350MM DEEP, STEP RISERS TO BE MAXIMUM 150MM HIGH.



### LANDSCAPE CONSTRUCTION SPECIFICATIONS

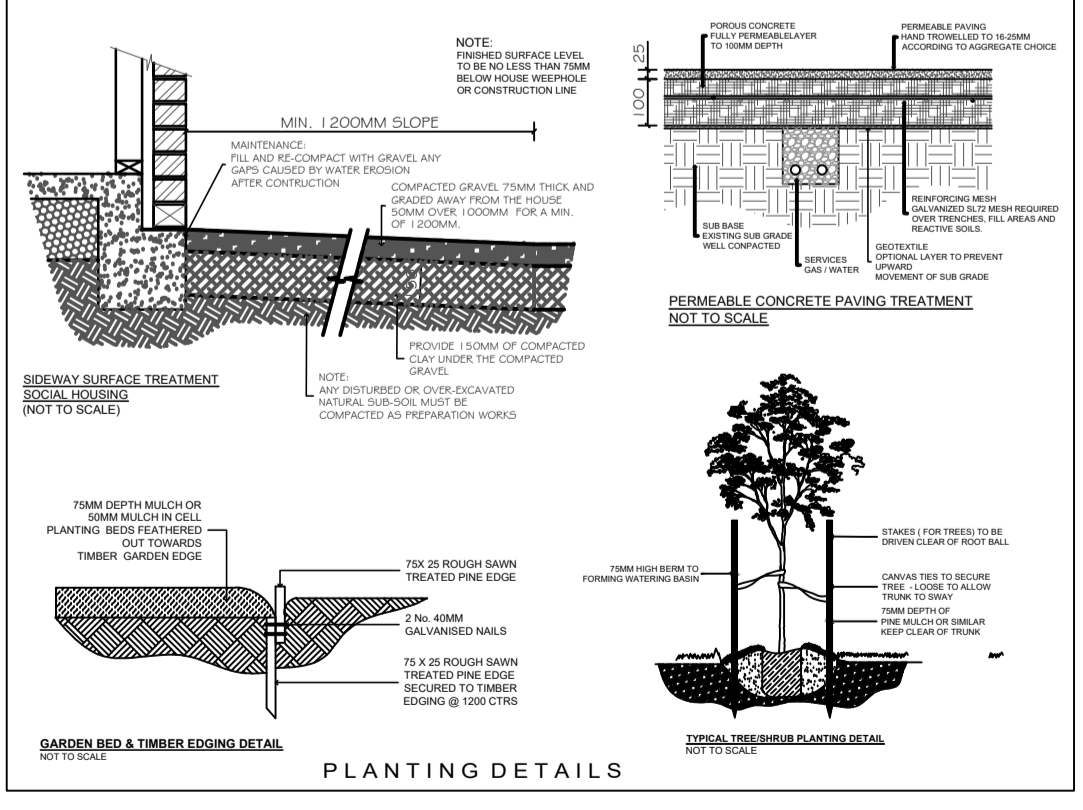
**SUBGRADE PREPARATION:** SITE PREPARATION TO BE CARRIED OUT UNDER SUITABLE CONDITIONS IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE. THE USE OF MACHINERY OR TOOLS THAT MAY DAMAGE SOIL STRUCTURE IS NOT ACCEPTABLE. GARDEN BED AND LAWN SUB-GRADE IS CULTIVATED TO A DEPTH OF 150MM AN SHAPED TO ACHIEVE DRAINAGE FALL PRIOR TO ADDING TOPSOIL. IF GYPSUM IS REQUIRED, THIS IS TO BE DISTRIBUTED AND CULTIVATED INTO THE SUB-GRADE AS PER THE MANUFACTURER'S INSTRUCTIONS. WEEDS ARE TO BE REMOVED PRIOR TO SUB-GRADE PREPARATION, TOP-SOILING AND PLANTING.

**SOIL PREPARATION:** IMPORTED TOPSOIL IS TO BE SUPPLIED BY AN APPROVED SUPPLIER TO A DEPTH OF APPROXIMATELY 100MM (AS REQUIRED) FOR GARDEN BEDS. DO NOT SPREAD IN MUDDY CONDITIONS. THE TOPSOIL IS TO BE LIGHT TO MEDIUM FRABLE LOAM (CAPABLE OF BEING COMPRESSED INTO A BALL BY HAND WHEN MOIST) YET CAN BE BROKEN APART IMMEDIATELY AFTER ITS PH WILL BE 6.0 - 7.0 AN FREE FROM PERENNIAL WEEDS AN BUILDING RUBBLE. THE FINISHED TOP LEVEL AFTER SETTLEMENT SHOULD BE 75MM BELOW THE EDGING LEVEL TO ALLOW FOR MULCH. IMPORTED TOPSOIL FOR LAWN AREAS TO BE SUPPLIED TO A DEPTH OF APPROXIMATELY 100MM (OR AS REQUIRED).

**TIMBER EDGING:** TIMBER EDGING TO BE INSTALLED TO SEPARATE ALL LAWN, PLANTING AREAS AN LILYDALE TOPPING/PEBBLE AREAS. THE TREATED PINE TIMBER IS TO BE 75MM X 20MM IN SIZE, SECURED WITH 300MM LONG STAKES AT 1000MM SPACINGS.

**PLANTS AN PLANTING:** TREES AN PLANTS SUPPLIED ARE TO BE HEALTHY AN FREE FROM INSECTS, DISEASES AN WEEDS. THE POT SIZE INDICATED IN THE PLANT SCHEDULE ARE THE MINIMUM SIZE TO BE SUPPLIED AN INSTALLED. WHEN EACH PLANTING AREA IS PREPARED, IF SOIL IS DRY, FILL WITH WATER AN ALLOW TO DRAIN AWAY COMPLETELY. PLANTS ROOTS ARE TO BE TEASED OUTWARDS IF ROOTS ARE MATTED IN POT. PLACE PLANT IN CENTRE OF HOLE AN ENSURE THAT THE TOP OF THE ROOTBALL IS FLUSH WITH THE SURROUNDING SOIL SURFACE AN THE TRUCK IS VERTICAL. TREES ARE TO BE STAKED WITH TWO HARDWOOD STAKES DRIVEN FIRMLY INTO THE GROUND BUT NOT THROUGH THE ROOTBALL. TREES ARE TO BE SECURED TO THE STAKES WITH STRONG BUT FLEXIBLE TREE TIES THAT ARE TIGHT ENOUGH TO SUPPORT THE TREES IN WINDY CONDITIONS BUT LOOSE ENOUGH TO SIMULATE GOOD TREE GROWTH AN DEVELOPMENT. THE TREE TIES MUST NOT MAJURE TREE BARK OR RESTRICT TREE GROWTH FOR AT LEAST THE FIRST THREE YEARS OF TREE GROWTH. A SLOW RELEASE FERTILISER (E.G. OSMOCOTE OR SIMILAR) IS TO BE APPLIED TO ALL GARDEN BEDS AS SPECIFIED BY THE MANUFACTURER AN BE KEPT AWAY FROM THE PLANT TRUNKS AN THEN WATERED IMMEDIATELY. A LAYER OF AGED ORGANIC MULCH TO A MINIMUM DEPTH OF 75MM IS TO BE APPLIED TO ALL PLANTING AREAS AFTER PLANTING IS COMPLETED.

**DRAINAGE:** SURFACE AN SUB-SURFACE DRAINAGE IS TO BE SPECIFIED BY A CERTIFIED CONSULTING ENGINEER.



## LANDSCAPE PLAN HOUSE 20 - 24

2 TOBRUK STREET - MORWELL - VIC



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### LEGEND

- COMPACTED GRANITE SCREENINGS
- DROUGHT TOLERANT TURF GRASS BUFFALO OR SIMILAR
- PERMEABLE CONCRETE PATH
- CHARCOAL COLOURED CONCRETE
- MULCHED GARDEN BED  
MULCH: DYED-BLACK FINE PINE BARK (MIN. 80MM DEEP)  
TOPSOIL: SANDY LOAM (MIN. 250MM DEEP)
- PALING FENCE  
1.8M UNLESS STATED OTHERWISE
- GARDEN EDGING  
15 x 25mm TREATED PINE EDGING
- RUBBISH BINS
- CLOTHES LINE
- RETAINING WALL
- 900MM HIGH MAX. LETTER BOX
- TREES TO BE REMOVED  
AS PER ARBORIST REPORT
- WATER TANK FOR IRRIGATION

### NOTES

- ALL LEVELS ARE TO A.H.D.
- PROPOSED INTERNAL FENCING TO BE 1.8M HIGH PALING UNLESS OTHERWISE NOTED.
- ALL BOUNDARY FENCES ARE EXISTING AND ARE TO REMAIN EXCEPT WHERE WALL PROPOSED ON BOUNDARY.
- ALL LANDSCAPING SHOWN IS CONCEPTUAL AND INDICATIVE ONLY.
- 6 CUBIC METERS OF STORAGE IS PROVIDED WITHIN GARDEN SHED UNLESS OTHERWISE NOTED.
- UNLESS SPECIFIED OTHERWISE, ALL STEP TREADS ARE TO BE 300 - 350MM DEEP. STEP RISERS TO BE MAXIMUM 180MM HIGH.

### PLANTING SCHEDULE

SPECIES	COMMON NAME	POT SIZE	H X W	QTY
	WESTRINGIA FRUTICOSA GREY BOX	14CM	1.0X 1.0M	10
	DIANELLA LITTLE REV	14CM	0.6X 0.6M	41
	CORREA 'DUSKY BELLS'	14CM	0.6 X 2M	4
	LOMANDRA 'LITTLE CON'	14CM	0.6 X 0.6M	32
	TRISTANOPSIS LAURINA	40CM (20% TALL, WEED PLANTED)	12-15 X 4.0M	1
	EUCALYPTUS MELLIODORA	40CM (20% TALL, WEED PLANTED)	10-15 X 8-10M	2
	LOMANDRA LONGIFOLIA	14CM	1.2-1 X 1.0M	30
	MYOPORUM PARVIFOLIUM	14CM	0.15 X 1.0M	12
	MAGNOLIA GRANDIFLORA LITTLE GEM	40CM (20% TALL, WEED PLANTED)	5 X 2.3M	2
	PYRUS CALLERYANA CHANTICLEER	40CM (20% TALL, WEED PLANTED)	11 X 6M	2
	ACACIA MELANOXYLON	40CM (20% TALL, WEED PLANTED)	12-15 X 5M	2

### LANDSCAPE CONSTRUCTION SPECIFICATIONS

**SURFACE PREPARATION:**  
SITE PREPARATION TO BE CARRIED OUT UNDER SUPERVISORY CONDITIONS IN ACCORDANCE WITH STANDARD HORIZONTAL PRACTICE. THE USE OF MACHINERY ON TOOLS THAT MAY DAMAGE SOIL STRUCTURE IS NOT ACCEPTABLE. TO A DEPTH OF 100MM AN AREA TO BE COMBED OR RAKED TO REMOVE ALL FOREIGN MATTER FROM TOPOSOIL. IF CYPRINUM IS REQUIRED, THIS IS TO BE DISTRIBUTED AND CULTIVATED INTO THE SUB-GRADE AS PER THE MANUFACTURER'S INSTRUCTIONS. WEEDS ARE TO BE REMOVED PRIOR TO SURFACE PREPARATION, TOP SOIL IS TO BE REFINISHED TO ORIGINAL FINISH.

**SOIL PREPARATION:**  
TOPSOIL TO BE SUPPLIED BY AN APPROVED SUPPLIER TO A DEPTH OF APPROXIMATELY 100MM (AS REQUIRED). FOR GARDEN BEDS, DO NOT SPREAD IN WINDY CONDITIONS. THE TOPSOIL IS TO BE LIGHT TO MEDIUM FRAGILE LOAM CAPABLE OF BEING COMPRESSED INTO A BALL BY HAND WHEN MOIST YET CAN BE BROKEN APART IMMEDIATELY. IF TOPSOIL IS TO BE 1.7M FREE FROM FERTILIZER, NEEDS AN ADDITIONAL 50MM OF TOPSOIL TO BE APPLIED AFTER SETTLEMENT SOILS TO BE 1.7M BELOW THE EDGING LEVEL TO ALLOW FOR MELD. IMPORTED TOPSOIL FOR LAWN AREAS TO BE SUPPLIED TO A DEPTH OF APPROXIMATELY 100MM (OR AS REQUIRED).

**TIMBER EDGING:**  
TIMBER EDGING TO BE INSTALLED TO SEPARATE ALL LAWN PLANTING AREAS AND LAYERS TOPPING PERMISSIBLE AREAS. THE TIMBER IS TO BE 75MM X 25MM IN SIZE, SECURED WITH 300MM LONG STAKES AT 1000MM SPACING.

**PLANTS PLANTING:**  
TREES ARE TO BE HEALTHY AND FREE FROM INSECTS, DISEASES AND WEEDS. THE POT SIZE INDICATED IN THE PLANT SCHEDULE ARE THE MINIMUM SIZE TO BE SUPPLIED AND NOT THE FINAL SIZE. WHEN PLANTING AREAS ARE PREPARED, IF SOIL IS DRY, FILL WITH WATER AND ALLOW TO DRAIN AWAY COMPLETELY. PLANTS ROOTS ARE TO BE TRIMMED OUTWARDS IF ROOTS ARE BATTED IN POT. PLACE PLANT IN CENTRE OF HOLE AND ENSURE THAT THE TOP OF THE ROOTBALL IS FLUSH WITH THE SURROUNDING SOIL SURFACE. THE SURFACE IS TO BE VERTICAL. WATER PLANTS WITH HANDHOOD STRONG WATER INTO THE SPECIFIC BUT NOT THROUGH THE ROOTBALL. TREES ARE TO BE SECURED TO THE STRIKES WITH STRONG BUT FLEXIBLE TREE TIES THAT ARE TIGHT ENOUGH TO SUPPORT THE TREES IN WINDY CONDITIONS BUT LOOSE ENOUGH TO SIMULATE GOOD TREE GROWTH AND EQUIPMENT. THE TREE TIES ARE TO BE REMOVED IMMEDIATELY AFTER THE FIRST THREE YEARS OF TREE GROWTH. A SLOW RELEASE FERTILISER (E.G. OSMOCOTE OR SIMILAR) IS TO BE APPLIED TO ALL GARDEN BEDS AS SPECIFIED BY THE MANUFACTURER AND KEPT AWAY FROM THE PLANT TRUNKS AND TREES IMMEDIATELY. A LAYER OF MUSHY ORGANIC MULCH TO A MINIMUM DEPTH OF 75MM IS TO BE APPLIED TO ALL PLANTING AREAS AFTER PLANTING IS COMPLETED.

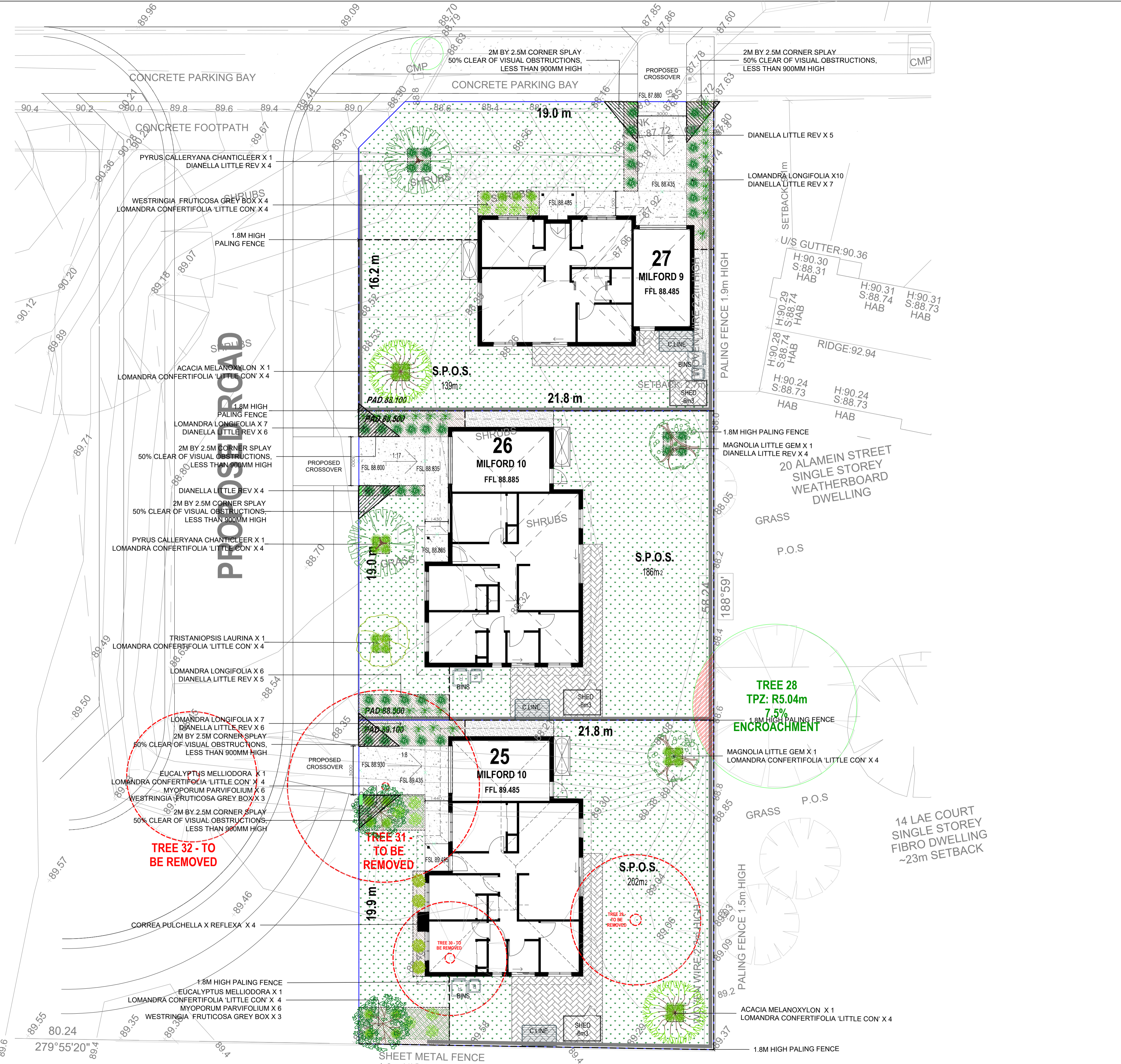
**DRAINAGE:**  
SURFACE AND SUB-SURFACE DRAINAGE IS TO BE SPECIFIED BY A CERTIFIED CONSULTING ENGINEER.

### PLANTING DETAILS

**75MM DEPTH MULCH OR 50MM DEPTH TURF GRASS**  
PLANTING BEDS TO BE FINISHED TO ORIGINAL FINISH. MULCH TO BE 75MM DEEP. TURF GRASS TO BE 50MM DEEP. MULCH TO BE 75MM DEEP. TURF GRASS TO BE 50MM DEEP.

**GARDEN BED & TIMBER EDGING DETAIL**  
TIMBER EDGING TO BE 75MM X 25MM IN SIZE, SECURED WITH 300MM LONG STAKES AT 1000MM SPACING.

**TYPICAL TREE/SHRUB PLANTING DETAIL**  
TREES ARE TO BE HEALTHY AND FREE FROM INSECTS, DISEASES AND WEEDS. THE POT SIZE INDICATED IN THE PLANT SCHEDULE ARE THE MINIMUM SIZE TO BE SUPPLIED AND NOT THE FINAL SIZE.



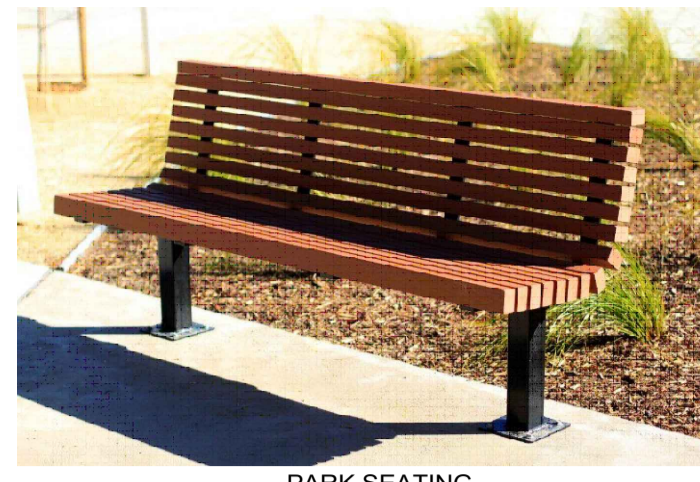
# LANDSCAPE PLAN HOUSE 25 - 27

2 TOBRUK STREET - MORWELL - VIC

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PAGE NO.: 8  
DATE: 12/01/2024

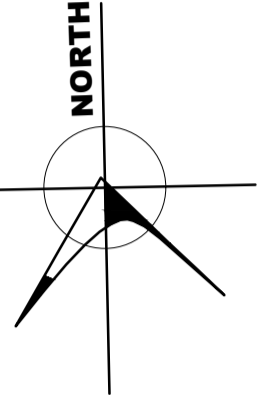
**LEGEND**

- COMPACTED GRANITE SCREENINGS
- DROUGHT TOLERANT TURF GRASS  
BUFFALO OR SIMILAR
- CONCRETE PATH
- MULCHED GARDEN BED  
MULCH: DYED-BLACK FINE PINE BARK  
(MIN. 80MM DEEP)  
TOPSOIL: SANDY LOAM (MIN. 250MM DEEP)
- RAILING FENCE  
1.8M UNLESS STATED OTHERWISE
- GARDEN EDGING  
75 X 25mm TREATED PINE EDGING
- EXISTING TREES  
REFER TO ARBORIST REPORT
- PARK BENCH
- TREES TO BE REMOVED  
AS PER ARBORIST REPORT



**NOTE**  
NEW NATURE STRIP STREET PLANTINGS  
MUST BE MINIMUM 45L CONTAINER  
STAKED WITH 2 HARDWOOD STAKES.

ALL STREET TREES MUST BE PLANTED  
AND MAINTAINED FOR A 2 YEAR PERIOD.



**PLANTING SCHEDULE**

SPECIES	COMMON NAME	POT SIZE	H X W	QTY.
	WESTRINGIA FRUTICOSA GREY BOX	14CM	1.0X 1.0M	11
	DIANELLA LITTLE REV	14CM	0.6X0.6M	54
	CORREA 'DUSKY BELLS'	14CM	0.6 X 2M	14
	DIETS GRANDIFLORA	14CM	0.6 X 0.6M	8
	KANOOKA GUM	40L (MIN. 1200MM)	12-15 X 4-6M	5
	YELLOW BOX	40L (MIN. 1200MM)	10-15 X 8-10M	7
	SPINY HEADED MAT RUSH	14CM	1.2-1 X 1.0M	17
	CREeping BOOBIALLA	14CM	0.15 X 1.0M	40
	BRADFORD PEAR	40CM (MIN. 1200MM)	11 X 6M	2
	CREeping ROSEMARY	14CM	0.3 X 1.0M	52
	BLACKWOOD WATTLE	40CM (MIN. 1200MM)	12-15 X 5M	2

**LANDSCAPE CONSTRUCTION SPECIFICATIONS**

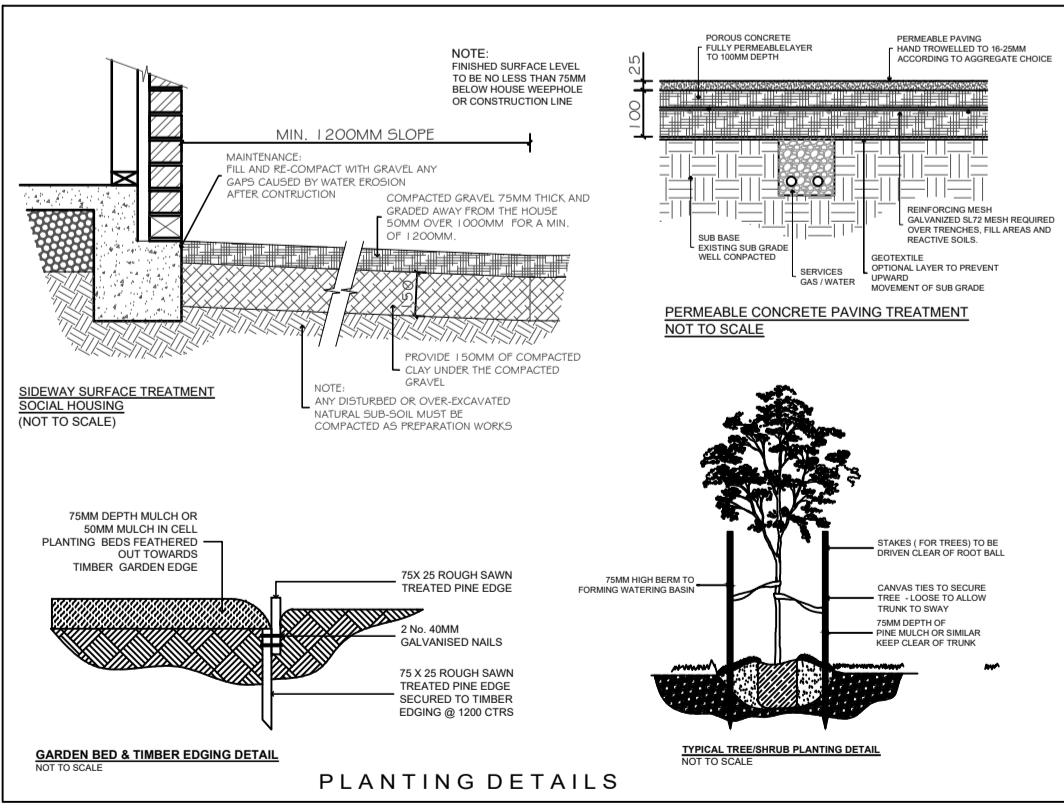
**SUBGRADE PREPARATION:**  
SITE PREPARATION TO BE CARRIED OUT UNDER SUITABLE CONDITIONS IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE. THE USE OF MACHINERY OR TOOLS THAT MAY DAMAGE SOIL STRUCTURE IS NOT ACCEPTABLE. GARDEN BED AND LAWN SUB-GRADE IS CULTIVATED TO A DEPTH OF 150MM AS SHAPED TO ACHIEVE DRAINAGE FALL PRIOR TO ADDING TOPSOIL. IF GYPSIUM IS REQUIRED, THIS IS TO BE DISTRIBUTED AND CULTIVATED INTO THE SUB-GRADE AS PER THE MANUFACTURERS INSTRUCTIONS. WEEDS ARE TO BE REMOVED PRIOR TO SUB-GRADE PREPARATION, TOP-SOILING AN PLANTING.

**SOIL PREPARATION:**  
IMPORTED TOPSOIL IS TO BE SUPPLIED BY AN APPROVED SUPPLIER TO A DEPTH OF APPROXIMATELY 100MM (AS REQUIRED) FOR GARDEN BEDS. DO NOT SPREAD IN MUDDY CONDITIONS. THE TOPSOIL IS TO BE LIGHT TO MEDIUM FRIABLE LOAM (CAPABLE OF BEING COMPRESSED INTO A BALL BY HAND WHEN MOIST) YET CAN BE BROKEN APART IMMEDIATELY AFTER ITS PH WILL BE 6.0 - 7.0 AN FREE FROM PERENNIAL WEEDS AN BUILDING RUBBLE. THE FINISHED TOP LEVEL AFTER SETTLEMENT SHOULD BE 75MM BELOW THE EDGING LEVEL TO ALLOW FOR MULCH. IMPORTED TOPSOIL FOR LAWN AREAS TO BE SUPPLIED TO A DEPTH OF APPROXIMATELY 100MM (OR AS REQUIRED).

**TIMBER EDGING:**  
TIMBER EDGING TO BE INSTALLED TO SEPARATE ALL LAWN, PLANTING AREAS AN LYLELDAE TOPPING/PEBBLE AREAS. THE TREATED PINE TIMBER IS TO BE 75MM X 25MM IN SIZE, SECURED WITH 300MM LONG STAKES AT 1000MM SPACINGS.

**PLANTS AN PLANTING:**  
TREES AN PLANTS SUPPLIED ARE TO BE HEALTHY AN FREE FROM INSECTS, DISEASES AN WEEDS. THE POT SIZE INDICATED IN THE PLANT SCHEDULE ARE THE MINIMUM SIZE TO BE SUPPLIED AN INSTALLED.  
WHEN EACH PLANTING AREA IS PREPARED, IF SOIL IS DRY, FILL WITH WATER AN ALLOW TO DRAIN AWAY COMPLETELY. PLANTS PLANTS ARE TO BE TEASED OUTWARDS IF ROOTS ARE MATTED IN POT. PLACE PLANT IN CENTRE OF HOLE AN ENSURE THAT THE TOP OF THE ROOTBALL IS FLUSH WITH THE SURROUNDING SOIL SURFACE AN THE TRUNK IS VERTICAL.  
TREES ARE TO BE STAKED WITH TWO HARDWOOD STAKES DRIVEN FIRMLY INTO THE GROUND BUT NOT THROUGH THE ROOTBALL. TREES ARE TO BE SECURED TO THE STAKES WITH STRONG BUT FLEXIBLE TREE TIES THAT ARE TIGHT ENOUGH TO SUPPORT THE TREES IN WINDY CONDITIONS BUT LOOSE ENOUGH TO SIMULATE GOOD TREE GROWTH AN DEVELOPMENT. THE TREE TIES MUST NOT INJURE TREE BARK OR RESTRICT TREE GROWTH FOR AT LEAST THE FIRST THREE YEARS OF TREE GROWTH.  
A SLOW RELEASE FERTILISER (E.G. OSMOCOTE OR SIMILAR) IS TO BE APPLIED TO ALL GARDEN BEDS AS SPECIFIED BY THE MANUFACTURER AN BE KEPT AWAY FROM THE PLANT TRUNKS AN THEN WATERED IMMEDIATELY. A LAYER OF AGED ORGANIC MULCH TO A MINIMUM DEPTH OF 75MM IS TO BE APPLIED TO ALL PLANTING AREAS AFTER PLANTING IS COMPLETED.

**DRAINAGE:**  
SURFACE AN SUB-SURFACE DRAINAGE IS TO BE SPECIFIED BY A CERTIFIED CONSULTING ENGINEER.



**NOTES**

- ALL LEVELS ARE TO A.H.D.
- PROPOSED INTERNAL FENCING TO BE 1.8M HIGH TIMBER PALINGS UNLESS OTHERWISE NOTED.
- ALL BOUNDARY FENCES ARE EXISTING AND ARE TO REMAIN (EXCEPT WHERE WALL PROPOSED ON BOUNDARY).
- ALL LANDSCAPING SHOWN IS CONCEPTUAL AND INDICATIVE ONLY.
- 6 CUBIC METERS OF STORAGE IS PROVIDED WITHIN GARDEN SHED UNLESS OTHERWISE NOTED.
- UNLESS SPECIFIED OTHERWISE, ALL STEP TREADS ARE TO BE 320 - 350MM DEEP, STEP RISERS TO BE MAXIMUM 100MM HIGH.

**ALAMEIN STREET**



**LANDSCAPE PLAN  
PARKLAND 1**

2 TOBRUK STREET - MORWELL - VIC



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### LEGEND

- DROUGHT TOLERANT TURF GRASS BUFFALO OR SIMILAR
- CONCRETE PATH
- MULCHED GARDEN BED  
MULCH: TYPED-BLACK FINE PINE BARK (MIN. 80MM DEEP)  
TOPSOIL: SANDY LOAM (MIN. 250MM DEEP)
- PALING FENCE  
1.8M UNLESS STATED OTHERWISE
- GARDEN EDGING  
75 x 25mm TREATED PINE EDGING
- EXISTING TREES  
REFER TO SURVEY REPORT
- TREES REMOVED  
AS PER SURVEY REPORT

**NOTE**  
NEW NATURE STRIP STREET PLANTINGS MUST BE MINIMUM 45L CONTAINER STAKED WITH 2 HARDWOOD STAKES.

ALL STREET TREES MUST BE PLANTED AND MAINTAINED FOR A 2 YEAR PERIOD.



### PLANTING SCHEDULE

SPECIES	COMMON NAME	POT SIZE	H X W (APPROX)	QTY.
	WESTRINGIA FRUTICOSA GREY BOX	14CM	1.0X 1.0M	13
	DIANELLA LITTLE REV	14CM	0.6X0.6M	15
	CORREA PULCHELLA X REFLEXA	14CM	0.6 X 2M	12
	DIETES GRANDIFLORA	14CM	0.6 X 0.6M	11
	TRISTANIOPSIS LAURINA	40L (2.0M TALL WHEN PLANTED)	12-15 X 4-6M	2
	EUCALYPTUS MELLIODORA	40L (2.0M TALL WHEN PLANTED)	10-15 X 8-10M	3
	LOMANDRA LONGIFOLIA	14CM	1.2-1 X 1.0M	20
	ROSMARINUS OFFICINALIS PROSTRATA	14CM	0.3 X 1.0M	10
	ACACIA MELANOXYLON	40CM (2.0M TALL WHEN PLANTED)	12-15 X 5M	1

### LANDSCAPE CONSTRUCTION SPECIFICATIONS

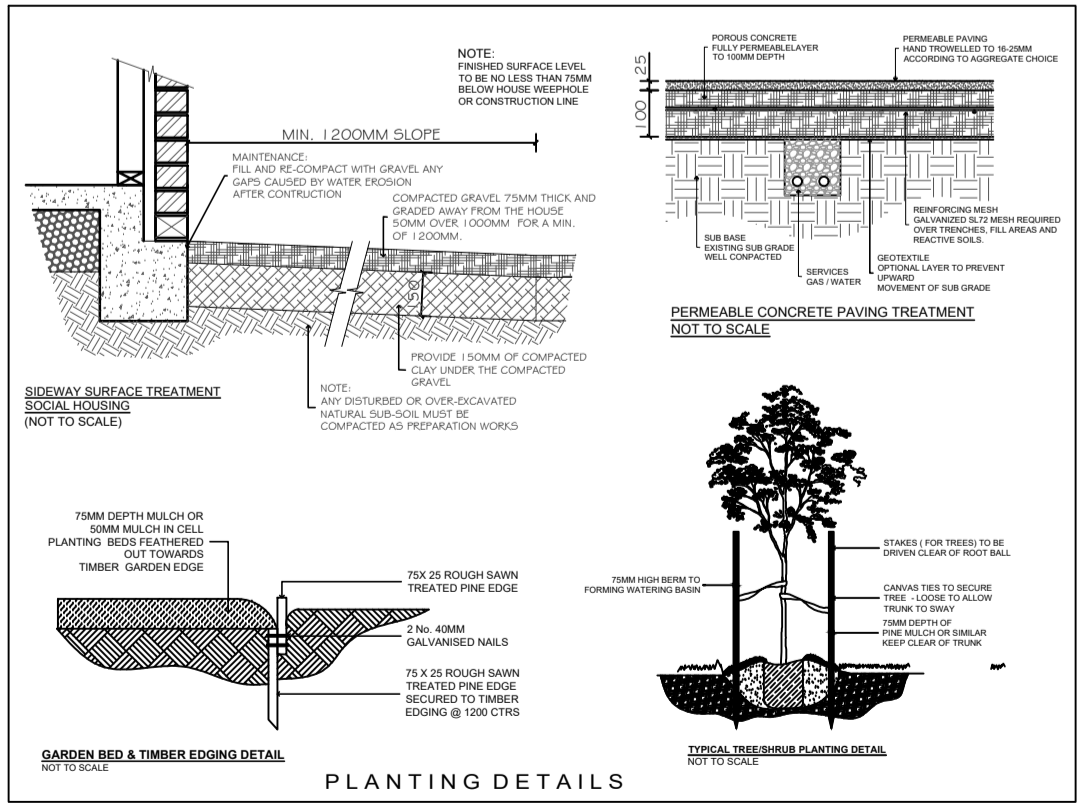
**SUBGRADE PREPARATION:**  
SITE PREPARATION TO BE CARRIED OUT UNDER SUITABLE CONDITIONS IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE. THE USE OF MACHINERY OR TOOLS THAT MAY DAMAGE SOIL STRUCTURE IS NOT ACCEPTABLE. GARDEN BED AND LAWN SUB-GRADE IS CULTIVATED TO A DEPTH OF 150MM AN SHAPED TO ACHIEVE DRAINAGE FALL PRIOR TO ADDING TOPSOIL. IF GYPSIUM IS REQUIRED, THIS IS TO BE DISTRIBUTED AND CULTIVATED INTO THE SUB-GRADE AS PER THE MANUFACTURERS INSTRUCTIONS. WEEDS ARE TO BE REMOVED PRIOR TO SUB-GRADE PREPARATION, TOP-SOILING AN PLANTING.

**SOIL PREPARATION:**  
IMPORTED TOPSOIL IS TO BE SUPPLIED BY AN APPROVED SUPPLIER TO A DEPTH OF APPROXIMATELY 100MM (AS REQUIRED) FOR GARDEN BEDS. DO NOT SPREAD IN MUDDY CONDITIONS. THE TOPSOIL IS TO BE LIGHT TO MEDIUM FRIABLE LOAM (CAPABLE OF BEING COMPRESSED INTO A BALL BY HAND WHEN MOIST YET CAN BE BROKEN APART IMMEDIATELY AFTER ITS PH WILL BE 6.0 - 7.0 AN FREE FROM PERENNIAL WEEDS AN BUILDING RUBBLE. THE FINISHED TOP LEVEL AFTER SETTLEMENT SHOULD BE 70MM BELOW THE EDGING LEVEL TO ALLOW FOR MULCH. IMPORTED TOPSOIL FOR LAWN AREAS TO BE SUPPLIED TO A DEPTH OF APPROXIMATELY 100MM (OR AS REQUIRED).

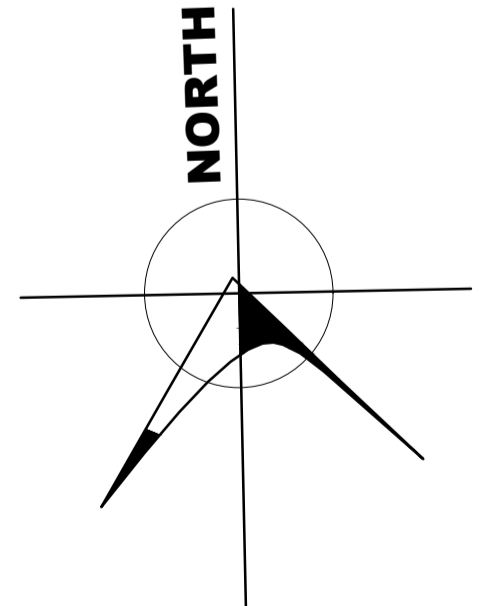
**TIMBER EDGING:**  
TIMBER EDGING TO BE INSTALLED TO SEPARATE ALL LAWN, PLANTING AREAS AN LLYDALE TOPPING/PEBBLE AREAS. THE TREATED PINE TIMBER IS TO BE 75MM X 25MM IN SIZE, SECURED WITH 300MM LONG STAKES AT 1000MM SPACINGS.

**PLANTS AN PLANTING:**  
TREES AN PLANTS SUPPLIED ARE TO BE HEALTHY AN FREE FROM INSECTS, DISEASES AN WEEDS. THE POT SIZE INDICATED IN THE PLANT SCHEDULE ARE THE MINIMUM SIZE TO BE SUPPLIED AN INSTALLED. WHEN EACH PLANTING AREA IS PREPARED, IF SOIL IS DRY, FILL WITH WATER AN ALLOW TO DRAIN AWAY COMPLETELY. PLANTS ROOTS ARE TO BE TEASED OUTWARDS IF ROOTS ARE MATTED IN POT. PLACE PLANT IN CENTRE OF HOLE AN ENSURE THAT THE TOP OF THE ROOTBALL IS FLUSH WITH THE SURROUNDING SOIL SURFACE AN THE TRUNK IS VERTICAL. TREES ARE TO BE STAKED WITH TWO HARDWOOD STAKES DRIVEN FIRMLY INTO THE GROUND BUT NOT THROUGH THE ROOTBALL. TREES ARE TO BE SECURED TO THE STAKES WITH STRONG BUT FLEXIBLE TREE TIES THAT ARE TIGHT ENOUGH TO SUPPORT THE TREES IN WINDY CONDITIONS BUT LOOSE ENOUGH TO SIMULATE GOOD TREE GROWTH AN DEVELOPMENT. THE TREE TIES MUST NOT INJURE TREE BARK OR RESTRICT TREE GROWTH FOR AT LEAST THE FIRST THREE YEARS OF TREE GROWTH. A SLOW RELEASE FERTILISER (E.G. OSMOCOTE OR SIMILAR) IS TO BE APPLIED TO ALL GARDEN BEDS AS SPECIFIED BY THE MANUFACTURER AN BE KEPT AWAY FROM THE PLANT TRUNKS AN THEN WATERED IMMEDIATELY. A LAYER OF AGED ORGANIC MULCH TO A MINIMUM DEPTH OF 75MM IS TO BE APPLIED TO ALL PLANTING AREAS AFTER PLANTING IS COMPLETED.

**DRAINAGE:**  
SURFACE AN SUB-SURFACE DRAINAGE IS TO BE SPECIFIED BY A CERTIFIED CONSULTING ENGINEER.



- ### NOTES
- ALL LEVELS ARE TO A.H.D.
  - PROPOSED INTERNAL FENCING TO BE 1.8M HIGH TIMBER PALINGS UNLESS OTHERWISE NOTED.
  - ALL BOUNDARY FENCES ARE EXISTING AND ARE TO REMAIN (EXCEPT WHERE WALL PROPOSED ON BOUNDARY).
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  - UNLESS SPECIFIED OTHERWISE, ALL STEP TREADS ARE TO BE 320 - 350MM DEEP, STEP RISERS TO BE MAXIMUM 100MM HIGH.



## LANDSCAPE PLAN PARK LAND 2



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2 TOBRUK STREET - MORWELL - VIC



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**PLANNING and ENVIRONMENT ACT  
LATROBE PLANNING SCHEME**

**CONSENT UNDER CLAUSE 52.20  
VPP2402817  
ENDORSED PLAN  
Sheet 1 of 19**

Signed: *[Signature]* for  
**MINISTER FOR PLANNING**  
Date: 9 MAY 2024

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**Document Status**

Version	Doc type	Reviewed by	Approved by	Date issued
01	R01	Mr M	Mr M	01/05/2024
02	R02	Mr M	Mr M	14/05/2024
00	R00	Mr M	Mr M	4/05/2024

**Project Details**

**Project Name** 2010/4/R01/M...  
**Client** ...  
**Client Project Manager** ...

**Water Technology Project Manager** Mr M  
**Water Technology Project Director** ...  
**Authors** ...

**Document Number** 2010/4/R01/001  
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**Figure 2-3 Site Land Use Change (2016 & Current)**

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201004R0100



## 2.1 环境风险评估

环境风险评估是指对建设项目实施后可能对环境造成的影响进行预测、分析和评价。根据《环境影响评价技术导则 环境风险》(HJ 1094-2020)的要求，本项目应开展环境风险评估。评估工作应遵循以下原则：科学性、客观性、公正性、透明性、可操作性和可验证性。评估内容应包括：环境风险识别、环境风险分析、环境风险评价、环境风险防范措施和应急预案编制等。评估报告应明确环境风险等级，并提出相应的风险防范和应急措施。本项目环境风险评估工作由具有相应资质的第三方机构承担，评估结果将作为项目审批和管理的依据。

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**Table 3-1 1% AEP Pre- and Post-development Flows**

Scenario	$f_i$ (Fraction Imperviousness)	1% AEP Flow
Pre-development	0.00	0.4000 cfs
Post-development	0.40	0.4100 cfs

The post-development flow is slightly higher than the pre-development flow due to the increase in imperviousness. The flow remains very low, indicating minimal runoff from the site.

### 3.1.1 Drainage Capacity Check

The drainage capacity of the site is checked against the 1% AEP flow. The site's drainage capacity is significantly higher than the peak flow, ensuring that the site can handle the maximum expected runoff without flooding.

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**Figure 3-4 DRAINS Model Layout**

The map displays the DRAINS Model Layout for a residential area. The layout includes a network of pipes and pits overlaid on an aerial photograph of a residential street grid. The legend indicates that the Site is outlined in pink, Parcels are outlined in white, Catchments and Subcatchments are outlined in red, Pipes are shown as cyan lines with arrows, and Pits are represented by blue dots. The map shows a network of pipes and pits overlaid on an aerial photograph of a residential street grid.

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## 4. COMMUNITY

The development is located on a site of approximately 1.4 hectares. The site is currently used for agricultural purposes and is surrounded by residential development. The development is proposed to be a residential development of approximately 200 dwellings. The development is proposed to be a residential development of approximately 200 dwellings. The development is proposed to be a residential development of approximately 200 dwellings.

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Gap flows present at the site during a runoff event will need to be contained by the development's internal road network. The development is proposed to be a residential development of approximately 200 dwellings. The development is proposed to be a residential development of approximately 200 dwellings. The development is proposed to be a residential development of approximately 200 dwellings.

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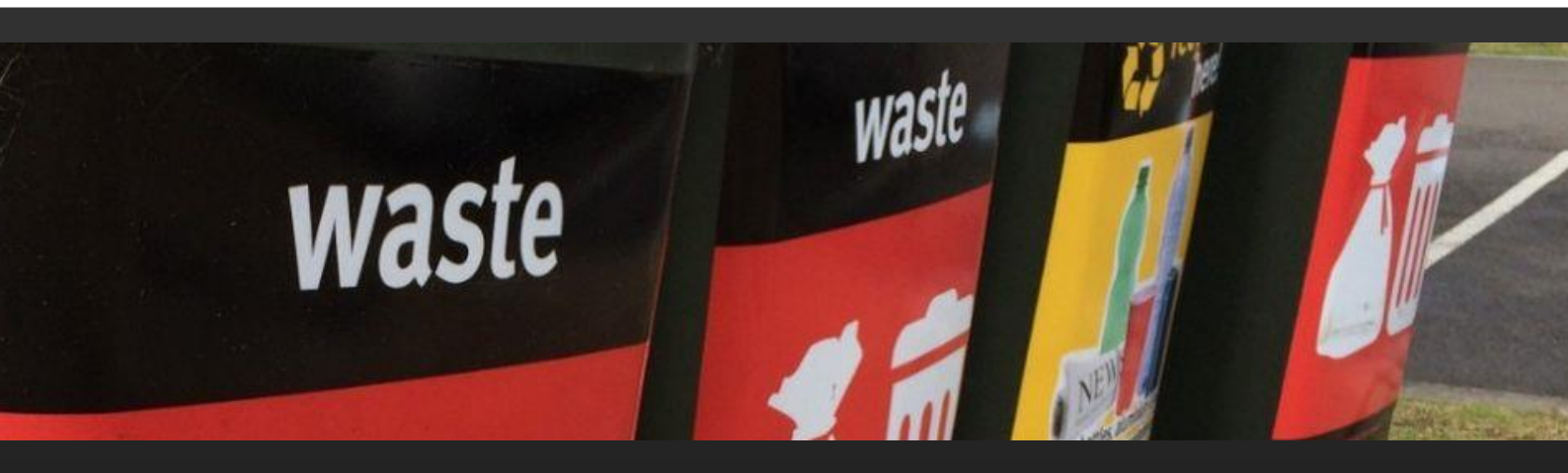


**PLANNING and ENVIRONMENT ACT  
LATROBE PLANNING SCHEME**  
CONSENT UNDER CLAUSE 52.20  
VPP2402817  
**ENDORSED PLAN**  
Sheet 1 of 11

Signed:  for  
**MINISTER FOR PLANNING**  
Date: 9 MAY 2024

## **2-14 Tobruk Street, Morwell**

Waste Management Plan



220653WMP002A-F.docx

15 January 2024

# onemilegrid

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## DOCUMENT INFORMATION

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<b>Prepared by</b>	VPG	<b>Reviewed by</b>	JS

**onemilegrid** operates from Wurundjeri Woiworung Country of the Kulin nation. We acknowledge and extend our appreciation to the Wurundjeri People, the Traditional Owners of the land. We pay our respects to leaders and Elders past, present and emerging for they hold the memories, the traditions, the culture, and the hopes of all Wurundjeri Peoples.

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# 1 INTRODUCTION

onemilegrid has been requested by Metricon Homes to undertake a Transport Impact Assessment of the proposed community housing development at 2-14 Tobruk Street, Morwell.

As part of this assessment the subject site has been inspected with due consideration of the development proposal, traffic and parking data has been sourced, and relevant background information has been reviewed.

# 2 EXISTING SITE CONDITIONS

The [subject site](#) is located at 2-14 Tobruk Street, Morwell and is bounded by Alamein Street, Tobruk Street and Churchill Road, as shown in Figure 1.

**Figure 1 Site Location**



Copyright Nearmap

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### 3 DEVELOPMENT PROPOSAL

#### 3.1 General

It is proposed to develop the subject site for the purposes of a residential subdivision to allow development of the site for community housing dwellings, as shown in Table 1.

**Table 1 Proposed Development**

Component	No/Area
2-Bedroom Dwelling	17
3-Bedroom Dwelling	10
<b>Total Houses</b>	<b>27</b>

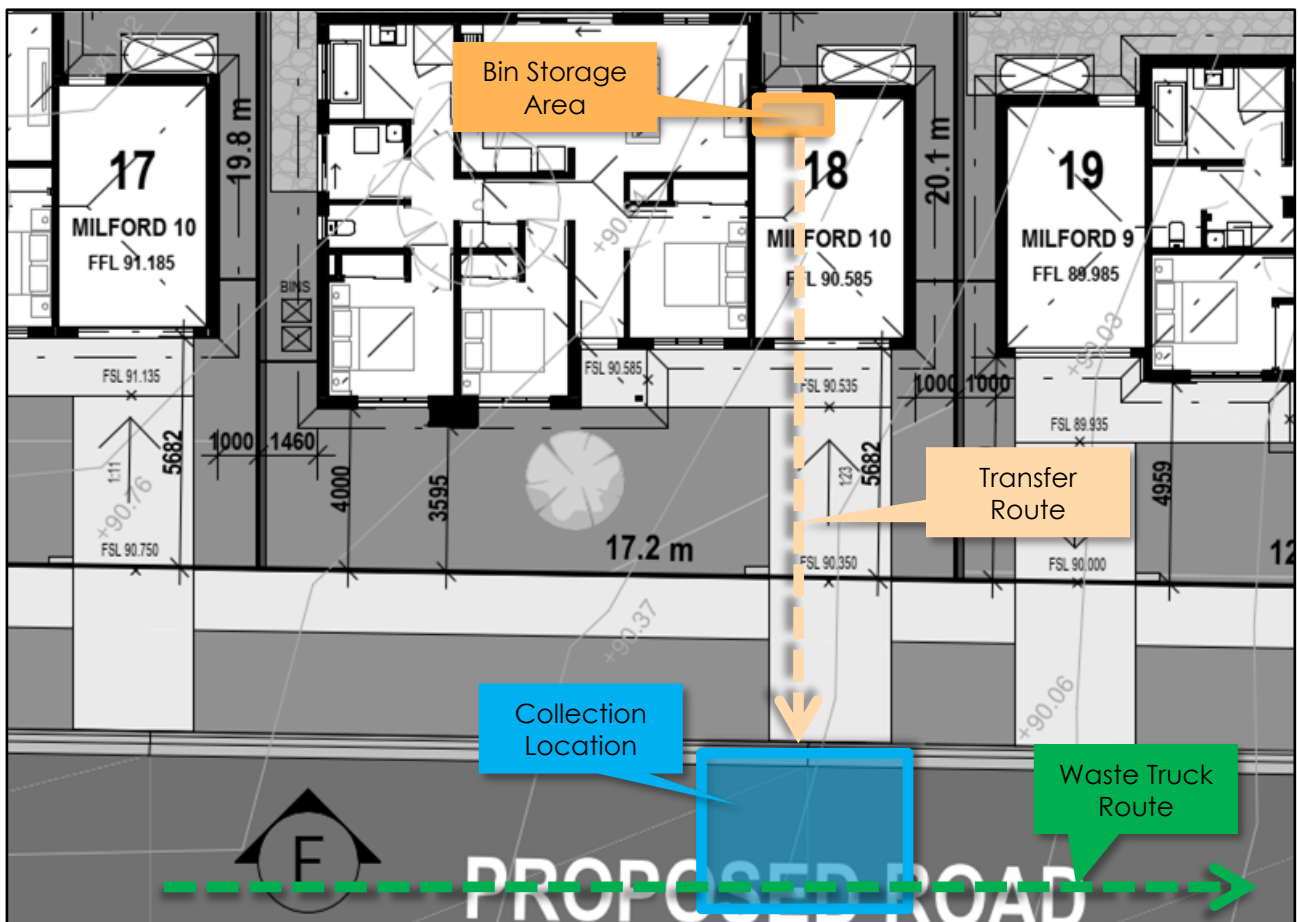
#### 3.2 Waste Management

It is proposed to utilise Latrobe Council's municipal waste collection services to manage the collection and disposal of all waste streams associated with the development.

Bins will be stored within each dwelling, likely in the respective garages and then wheeled out to the kerbside on collection days.

An example collection location and expected transfer route is shown in Figure 2.

**Figure 2 Example Bin Storage Room and Collection Details**



## 4 WASTE GENERATION

### 4.1 Sustainability Victoria Recommended Rates

Waste generation rates published within Sustainability Victoria's "Better Practice Guide for Waste Management and Recycling in Multi-unit Developments" suggest the following rates for multi-unit developments:

**Table 2 Sustainability Victoria Recommended Weekly Rates – Residential**

Dwelling Size	Garbage	Recycling and Paper
Individual dwelling	120 L	240 L

### 4.2 Adopted Council Rates

The standard minimum compulsory kerbside bins within the Latrobe City Council are 1 x 120 litre garbage bin, 1 x 240 litres recycling bin and 1 x 240 litre green waste bin.

### 4.3 Expected Waste Generation

#### 4.3.1 Garbage and Recycling

It is proposed to provide garbage, organic and recycling bins in accordance with Council standard bin provision.

Based on Sustainability Victoria and Latrobe City Council's adopted waste generation rates, the following weekly waste generation is expected per dwelling.

**Table 3 Expected Waste Generation Per Dwelling**

Component – Stream	Total Waste/Week
Garbage	120 L
Recycling	120 L
Green Waste	120 L

#### 4.3.2 Green Waste

Latrobe City Council requires the use of a green waste bin. Ample area is available within the garage or open space areas of each dwelling for the storage of a green waste bin. In relation to collection, green waste will be collected fortnightly, on opposite weeks to the recycling collection, therefore the collection of green waste can occur in a similar manner to the recycling collection, utilising the proposed collection points.

□

### 4.3.3 Hard Waste

Hard waste will be collected from kerbside in accordance with Council standard requirements. Latrobe City Council has a yearly kerbside hard waste collection service for Morwell.

Additional to the above, hard waste may be disposed of independently by residents, at Council's Recycling Centre/Transfer Station.

### 4.3.4 Soft Plastics

Soft plastic waste is estimated to contribute approximately 20% of landfill waste volumes, and includes such things as bread bags, plastic bags, bubble wrap and snap lock bags.

Previously, soft plastics were able to be recycled via REDcycle bins located at most Coles and Woolworths supermarkets. However, REDcycle have since paused the recycling of soft plastic due to supplier/storage issues, therefore soft plastic should be disposed of using the garbage bins.

### 4.3.5 Electronic Waste (E-Waste)

E-waste includes all manner of electronic waste, such as televisions, computers, cameras, phones, household electronic equipment, batteries and light bulbs. E-waste contains valuable materials that can be recovered and reused such as tin, nickel, zinc, aluminium, copper, silver and gold.

On 1<sup>st</sup> July 2019, the disposal of E-waste to landfill was banned by the Victorian Government.

A large number of e-waste collection points are available in Victoria and private contractors are equipped with the resources to undertake E-waste collections.

Council does not provide a residential kerbside pick-up service for E-waste, therefore E-waste must be taken by residents to the appropriate collection centre, as described below:

- Planet Ark operate a number of e-waste recycling drop-off locations throughout Victoria (<https://recyclingnearyou.com.au/electrical/>);
- Officeworks stores accept small amounts of personal E-waste;
- Aldi stores accept batteries; and
- Some Bunnings stores accept batteries.

Additional recycling locations are provided at <https://recyclingnearyou.com.au/>

□

## 5 BIN REQUIREMENTS

### 5.1 Bin Provision and Specifications

It is proposed to utilise Council's municipal waste collection for all waste services for the proposed development. Latrobe City Council offers a 120 litre garbage bin, a 240 litre green waste bin and a 240 litre recycling bin for each dwelling.

Latrobe City Council collects garbage bins weekly while recycling and green waste bins are collected fortnightly on alternating weeks.

Consequently, the following bins will be required for each dwelling of the proposed development.

**Table 4 Individual Dwelling Bin Provision**

Component – Stream	Total Waste/Week	Bin Size	Collection Frequency	Bins Required
Garbage	120 L	120 L	Weekly	1 bin
Recycling	120 L	240 L	Fortnightly	1 bin
Green Waste	120 L	240 L	Fortnightly	1 bin
<b>Total</b>				<b>3 bins</b>

\* The total bin capacity is slightly less than the expected generation, and may require some minor compaction of waste

The typical bin specifications for each bin size are provided in Table 5 below.

**Table 5 Bin Specifications**

Stream	Capacity	Width	Depth	Height	Area	Colour
Garbage	120 litres	0.50m	0.55m	0.95m	0.28m <sup>2</sup>	Red lid and dark green body
Recycling	240 litres	0.60m	0.75m	1.10m	0.45m <sup>2</sup>	Yellow lid and dark green body
Green Waste	240 litres	0.60m	0.75m	1.10m	0.45m <sup>2</sup>	Light green lid and dark green body

### 5.2 Bin Storage

Each dwelling will store their garbage, recycling and green waste bin either in their garage or outdoor space.

With only a small number of bins in each garage and ventilation of the garages and car parking areas, the proposed storage of waste bins within a garage is considered to be appropriate, and not uncommon for residential waste.

### 5.3 Bin Collection

To allow for collection, bins will be transported to one of Alamein Street, Tobruk Street, Churchill Road or the internal road frontages and positioned kerbside for collection by Council.

### 5.4 Bin Cleaning

Residents are responsible for the maintenance and cleaning of their own bins. □



## 6 WASTE MANAGEMENT

### 6.1 Best Practice Waste Management

Best Practice Waste Management is an initiative designed to reduce the amount of waste generated through encouraging a change of behaviour and action on waste management and moreover recycling.

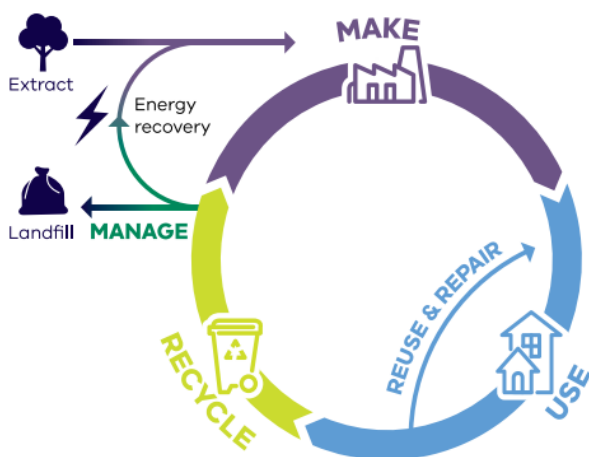
The benefits of reducing waste generation are far reaching and have been identified as significantly important by Council and the Victorian Government.

Recycling Victoria: A New Economy is a policy and 10-year action plan, prepared by the Victoria Government, to “deliver a cleaner, greener Victoria, with less waste and pollution, better recycling, more jobs and a stronger economy”.

Four overarching goals have been identified in order to achieve a circular economy in relation to waste, as below:

1. □MAKE – Design to last, repair and recycle;
2. □USE – Use products to create more value;
3. □RECYCLE – Recycle more resources;
4. □MANAGE – Reduce harm from waste and pollution.

**Figure 3 Resource Flows in a Circular Economy**



### 6.2 Bin Usage

Residents will dispose of recyclables, green waste and bagged garbage in their individual bins, stored within each dwelling. Cardboard boxes should be flattened, and containers rinsed and cleaned prior to disposal in the provided bins.

□

## 6.3 Signage

To avoid contamination between garbage streams, bin lids will be colour coded in accordance with Council standards, to ensure the bin type is easily distinguishable. Furthermore, bins should include typical signage (preferably on the bin lid) to reinforce the appropriate materials to be deposited in each bin. Example signage is shown in Figure 4 below.

**Figure 4 Example Waste Signage**



## 6.4 Collection

Residents will be responsible for the transfer of their own bins to the Alamein Street, Tobruk Street, Churchill Road or internal road street frontages for collection.

□

## 7 CONTACT INFORMATION

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### 7.1 Council

Latrobe City Council

Phone: 1300 367 700 (Customer Service)

Web: <https://www.latrobe.vic.gov.au/>

### 7.2 Others

Sustainability Victoria

Services: Sustainable Waste Management initiatives and information

Phone: 1300 363 744 (Energy, Waste and Recycling)

Web: [www.sustainability.vic.gov.au](http://www.sustainability.vic.gov.au)

Email: [info@sustainability.vic.gov.au](mailto:info@sustainability.vic.gov.au)