Design Requirements for Multi-Unit Housing RZ3

Block	Section	
ax	BA	
ab	BA	
aa	BA	
С	BA	
q	BA	
r	BA	

Macnamara



Contents

Part 1 - Introduction	4
The Ginninderry vision: an inspiring 21st century community	4
Setting the highest standards	4
Innovative ideas and technologies	4
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Part 2 - Design Approval Process	5
How the process works	5
Compliance Bond	5
Part 3 - Design Requirements	6
Public domain interface	6
Local character and context	7
Landscape design	7
Visual appearance and articulation to corners	9
Roof form	9
Roofing materials	9
Eaves, awnings and sunhoods	9
Mailbox	9
Bush fire requirements	9
Energy Efficiency Rating	9
Zoning	9
Building height	9
Building front setback	9
Fencing & courtyard walls	9
PPOS requirements	9
Natural ventilation	9
Dwelling size and layout	10
Garage and garage doors	10
Storage	10
Bin locations	11





Contents

Ceiling heights	11
Glazing	11
Home Energy Systems	11
Appliance and fixtures	11
Hot water systems	12
Heating and cooling	12
Rainwater tanks	12
Electric Vehicle (EV) Charging Provision	13
Retaining walls	13
Rear lane access	14
Services and ancillary structures	14
Dog and cat containment	14
Part 4 - Appendices	18
Appendix A – Pre Approved Colours and Material Palette	
Appendix B – Block Disclosure Plans	
Appendix C – Block Fill Plan	
Appendix D – Block Planning Control Plans	
Macnamara Housing Development Requirements Application Form	

Part 1: Introduction

The Ginninderry vision: an inspiring 21st century community

The Ginninderry community will be unique in our region. It extends across the ACT/NSW border to the west of Belconnen and is being developed by a Joint Venture between the ACT Suburban Land Agency (SLA) and Riverview Developments (ACT) Pty Ltd.

From the start, our vision for Ginninderry has been to build a community of international significance, with innovation, diversity and ecological criteria at its core. Now we're bringing this vision to life.

Setting the highest standards

The multi-unit site at Ginninderry will form part of a whole neighbourhood design.

The project team has established high expectations for Ginninderry, perhaps best illustrated by the project's accreditation as Canberra's first 6 Star Green Star Community, through the Green Building Council of Australia. To achieve this certification, we've shown that Ginninderry will be a worldleading community, exhibiting international best practice in urban design and development.

All residents at Ginninderry will benefit from a vast conservation corridor, well connected pedestrian and cycling pathways, tree lined streets and easy access to public transport.

Ginninderry aspires to be recognised as a world leader in sustainable development, delivering a community that is:

- better planned and designed
- more dynamic and vibrant •
- a healthy place to live work and play
- productive and prosperous
- flexible, adaptable and resilient.

Innovative ideas and technologies

Like all communities, Ginninderry will evolve and change over time, and so too will building design technologies and materials. It is quite possible that innovative energy, comfort and cost outcomes may be achieved by using new technologies, practices and principles not contemplated in this document.

At the discretion of the Development Manager, mandatory requirements may be varied if better alternatives and solutions are proposed, that do not compromise the overall integrity of Ginninderry's design philosophy.

Part 2: Design Approval Process

Multi-unit designs at Ginninderry need to comply with the following:

- These Design Requirements
- Plans relating to this block in Part 4 Appendices
- Relevant Territory Plan District and Zone Policies (as applicable)
- Relevant District and Zone Technical Specifications and ACT Housing Design Guide (as applicable)

Compliance Bond

An important part of the Contract for Sale of land at Ginninderry is the requirement for the payment of a Compliance Bond at the time of settlement. The Compliance Bond is to ensure the adherence to these Design Requirements.

Minimum Requirements

The conditions for the return of the Compliance Bond are:

- The design(s) has been submitted to and approved by the Development Manager prior to building commencement.
- The multi-unit homes have been built to the approved design in accordance with the Design Requirements
- A letter from your solar installer certifying that the PV system with inverter and Home Energy Management System has been installed to comply with the Sustainability Requirements

- Any damage caused by the construction of the multi-unit site to the surrounding verges, street trees, footpath, services and adjoining land has been rectified to the satisfaction of Transport Canberra and City Services (TCCS) and our Development Manager
- All waste on the public verge and adjoining land has been removed
- The purchaser (builder) may not seek to transfer the compliance bond requirements to the ultimate owner of the dwelling(s)
- If found to be compliant, your full Compliance Bond will be returned



Part 3: Design Requirements

The following information outlines the Design Requirements for Multi-Unit Housing - RZ3 - Macnamara

Design Principle	Design Requirements	
Public Domain Interface Provide legible and attractive interfaces that achieve passive surveillance to public	Front doors of each dwelling are clearly visible from a public street or lane-way and include a covered entry feature or portico.	
streets and lane-ways.	Windows fronting a public road from habitable rooms, balconies or decks overlook the public domain.	
	Courtyard walls are to be provided to comply with the Belconnen District Specification and are required to be coordinated with all service requirements, including clearance to any water meters and free access to any electrical meter boxes.	
	Where development frontages are adjacent to open spaces, parks, public walkways or located on a corner, the following requirements apply:	
	 Habitable rooms have windows to provide passive surveillance (i.e. no 'blank' facades) 	
	Building entries and pathways are visible and legible from public domain.	



Surveillance of Public Domain



Clear entries behind courtyard walls

Design Principle	Design Requirements
Local Character and Context The built form, articulation and scale relates to the local character of the area and its context.	The design should sit comfortably within the Macnamara Master Plan. Multi Unit housing is located throughout Macnamara in prominent locations and on main arterials. As such, designs should provide a high quality, well articulated and active street frontage to the public domains.
	The design should respond to its orientation and provide private and communal open spaces that utilise the site's assets, provide links and connections from the precinct to adjacent open spaces and thoroughfares.
Landscape Design	Tree planting on the site must meet or exceed the Territory Plan requirements for deep soil zones and tree sizes.
The landscape design requires healthy plant and tree growth space for medium and large sized trees.	Minimum planting area and dimensions - refer to Residential Zones Technical Specifications.
	The landscape plan proposes a combination of tree planting, for shade, mid height shrubs, lawn and ground covers.
	Include a mix of species that are appropriate for scale and shading.
	Synthetic or artificial grass is not permitted.
	The verge areas between the front boundary of the land and the kerb must be turfed.
	Refer Appendix B for suggested Landscape Planting Palette.



Courtyard spaces should allow natural light and cross-ventilation to living spaces



An example of a vertical greenwall to help soften small courtyard areas

Design Principle

Design Requirements

Visual Appearance and Façade **Articulation**

To promote well designed buildings of high Architectural quality that contribute to the local character.

The facades of the multi-unit homes must be designed as an integrated pack to provide an consistent streetscape.

The development is to incorporate articulation to frontages.

The following elements help provide functional articulation. The design must demonstrate how it responds to the following elements:

- Covered entry feature or portico is mandatory
- A balcony, deck, pergola, terrace, or veranda
- Extruded box window treatments
- Bay windows
- Awnings, sunhood, and louvres
- Eaves
- Access ramps as required

The overall streetscape must have a light base colour as the prominent wall finish with light weight cladding and include a mix of materials to provide articulation.

Double storey designs must incorporate balconies at bookends/ corners with a combination of solid and perforated metal or glass balustrades.

Facade glazing to street frontages must be more vertical in proportion with mullion spacing less than 1.0m. Openings of 2.4m wide or more must be a minimum of 3 panels.

Metal profile cladding systems or FC style boards with profile widths of a maximum 200mm are encouraged.



Sunhood and Awning



Light filled screened balconies.



Clearly articulated facades add value and character to the streetscape



Passive Surveillance with articulated and screened balconies



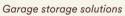
Clearly articulated facades add value and character to the streetscape



Design Principle	Design Requirements	
Visual Appearance and Articulation to	Refer to the block planning controls.	
Corners	Articulation elements such as balconies, blade walls, pergolas, sunhoods, awnings, façade treatments, material use and expressed structure are required to add visual interest and avoid large blank wall planes to prominent corners.	
	Buildings may need to be stepped back further on corners to permit balconies, glazing and larger eaves without encroachment into secondary front setbacks. All materials must wrap around the corner dwellings by at least 4 metres.	
Roof Form	The roof treatments are integrated into the building design and positively respond to open space and laneway and provide for individual expression for each dwelling.	
	The roof form must consider how to integrate the solar panels. Lights and ventilation systems are integrated into the roof design.	
	Gable roof – minimum 25 degrees if visible	
	Skillion – 10 to 15 degrees minimum if visible	
Roofing Materials	Metal profile roof sheeting only. Refer to Approved Colours and Finishes palette Part 4.	
Eaves, Awnings and Sunhoods	Minimum 450mm eaves required. Any windows that are not protected by an eave , i.e Parapet walls, require awnings or sunhoods, except south facing windows.	
Mailbox	Mailboxes should be incorporated into a courtyard wall (where permitted).	
	Standalone mailboxes must compliment the home and must be constructed of masonry such as smooth face brick, stone faced masonry, rendered or bagged masonry or natural stone.	
	Any pre-fabricated stand alone mailboxes must be of a high quality and may only be approved on merit.	
Bush Fire Requirements	There are no bush fire requirements within Strathnairn	
Energy Efficiency Rating	A minimum NatHERS rating of 7.0 is required for each dwelling.	
Zoning	Zone RZ3.	
Building Height	Up to 2 storeys permitted.	
Building Front Setback	Refer to Territory Plan District and Zone Policies, and; District and Zone Technical Specifications and ACT Housing Design Guide (as applicable).	
Fencing & Courtyard Walls	Refer to Belconnen District Specification & Fencing Controls Plan.	
PPOS Requirements	Refer to Territory Plan District and Zone Policies, and; District and Zone Technical Specifications and ACT Housing Design Guide (as applicable).	

Design Principle	Design Requirements	
Natural Ventilation	All habitable rooms must be naturally ventilated.	
Dwelling Size and Layout	The dwelling has sufficient area to ensure the layout of rooms are functional, well organised and provide a high standard of amenity.	
	Minimum Net Living Areas (NLA's)	
	• 1 bed = 50m²	
	• 2 bed = 70m²	
	• 3+ bed = 95m²	
	Kitchens are not part of circulation spaces such as hallways.	
Garage and Garage Doors	Consider the use of masonry base elements to corners of garages and lightweight elements where appropriate.	
	Provide panel lift or tilt up garage doors. Roller doors are not permitted.	
Storage	Multi-unit designs must provide adequate internal storage for each unit.	
	Minimum internal dwelling storage:	
	• Studio dwellings = 2m ²	
	• 1 bed dwellings = 3m ²	
	• 2 bed dwellings = 4m ²	
	• 3+ bed dwellings = 5m²	
	Refer to Residential Zones Specifications	
End or Trip Facilities	Onsite bicycle parking and access pathway is to be provided in accordance with Residential Zones Specification. The following minimum bicycle parking spaces are to be provided:	
	- 1 space per 2 bed dwelling	
	- 2 spaces per 3+ bed dwelling	
	- 1 space per 10 dwellings for visitors	







Bicycle storage solutions



Laundry linen storage

Design Principle	Design Requirements		
Bin Locations	Storage for three bins must be provided including general waste, recycling and green waste. Bin locations should be integrated with the dwelling designs and screened from public view. Kitchen design must allow for easy waste separation.		
Ceiling Heights	Ceiling heights are to achieve sufficient natural ventilation and provide daylight access and spatial quality. Minimum ceiling heights: 2.7m to ground floor habitable rooms 2.7m to upper floor living areas 2.5m to upper level bedrooms		
Glazing	uPVC or thermally broken aluminum double glazing is required to all external windows and doors.		
Home Energy Systems	Dwellings must be all-electric with no mains or bottled gas connections. A PV System with a Home Energy Management System and compatible inverter must be installed for all dwellings under the following provisions: a. Minimum PV size: • 1-2 bedroom 3kW • 3 bedroom+ 4kW b. Home Energy Systems must be a Reposit Power (battery is required) or Evergen. c. The solar inverter must be compatible with the chosen Home Energy Systems above. d. Where PV panels are located on a roof section fronting a street, they must be installed flush with the roof. e. All hardware components must be installed by a certified Solar Accreditation Australia installer.		
Appliances and Fixtures	Induction cooktops must be provided to all dwellings. All appliances, water fixtures and fittings must have a minimum 4 star rating under the water efficiency labeling and standards (WELS) scheme and (where required) a 4 star energy rating under the energy rating label (Energy Efficiency Rating) scheme. This includes showerheads, tap ware, toilets, fridges, freezers, washing machines, dryers and any other appliance provided with the dwelling.		

Design Principle	Design Requirements	
Hot Water Systems	All dwellings must have a solar or heat pump hot water system installed. Roof top solar water collectors are not permitted on the roof fronting the street. Consideration must be given to the location of any tank including screening or placement within a cupboard or garage space.	
	Hot water systems must be climate appropriate and have temperature application range down to -5 degrees ambient air temperature.	
Heating and Cooling	Passive heating and cooling must be considered for all dwellings including ceiling fans and thermal mass)	
	If Mechanical heating and/ or cooling systems are installed they must be:	
	a. reverse cycle air conditioning with:	
	 Energy Efficiency Rating of 3.1 or higher for cooling cycle 	
	 Coefficient of Performance of 3.5 or higher for heating cycle 	
	 Outdoor unit with sound pressure level of 57dBA or lower for heating and cooling cycle 	
	b. air conditioning with a cooling cycle only that achieves an Energy Efficiency Rating of 3.1 or higher	
	c. ducted evaporative cooling with self-closing damper	
	d. ground source heat pump.	
	Considerations must be given to the location of any outdoor fan coil unit including screening and compliance with ACT EPA noise requirements.	
Rainwater Tanks	Minimum requirement as per Residential Zones Specification.	
	Please consider addition Water Sensitive Urban Design and Rainwater tank provisions for soft planting and environmental purposes.	



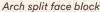
Narrow style rainwatrer tanks can be used where space requirements are restrictive



Rainwater tanks incorporated into a carport design shows clever and effective use of small spaces

Design Principle Design Requirements Electric Vehicle (EV) Charging One EV Ready charging point per dwelling with: 10 Amp General Power Outlet (GPO) single phase socket with electrical cabling/wiring capacity rated to 32 Amp single phase. Wiring installed from the EV charger position to individual switchboard Space for double-width circuit breaker in switchboard Data cabling (home ethernet data point) to be provided next to the GPO with the ability to be patched/ connected with home NBN router. If any future higher specification requirements are provided by the National Construction Code or ACT Government Territory Plan, the requirements from the National Construction Code or ACT Government Territory Plan take precedence. **Retaining Walls Minimum Requirements:** Extensive earthworks should be limited The height of site cuts along the side boundaries with where possible to minimise the extent of attached neighbouring wall cannot exceed 500mm in height retaining wall costs and the visual impacts Retaining wall forward of the front building line must be to the streetscape. constructed from the following materials at the discretion of the Ginninderry Development Manager Approved face brick Approved rendered masonry Approved brickwork such as split face, honed or shot blast finishes Approved stone faced masonry Approved reinforced concrete finishes Timber, concrete sleepers or prefabricated modular systems are not permitted forward of the building line. Retaining walls alongside boundaries forward of the building line must be tapered or stepped in line with the finished ground level at the front boundary. Where there are services such as water, electrical, communications, sewer and storm water, detailed coordination of all courtyard wall locations and associated services must be considered in the initial design process.







Streetscape

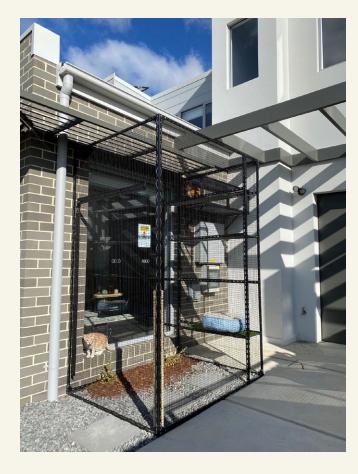


Well articulated dwelling designs provide a functional and more attractive streetscape



Design Principle	Design Requirements		
Vehicle Access	Minimum Requirements: • Driveways must be constructed from either - plain concrete or - maximum 5% Oxide finish		
Services and ancillary structures	Services such as water, electricity meter boxes, NBN and home energy system cabinets can have an adverse impact on the overall streetscape if not considered as part of the overall design. The location of the above services will be required to be shown on the site plan as part of the design approval process. Minimum Requirements: Water, electricity meter boxes, NBN and home energy system cabinets must be integrated into the front façade		
	 Solar panels must sit flush with the roof line if located to the street frontages of the dwellings Storage tank for solar HWS is not permitted to be mounted on the roof fronting the street Aerials, satellite dishes, antennae, heat pumps, A/C units and evaporative units are to be located to the rear of the dwellings and must not be visible from the street. Clothes drying lines and garbage bins are to be located to the rear of the terraces. If they are located to the side of the house within the Primary Building zone, they must be screened from public view. 		
	Sheds, outdoor structures are to be located to the rear of the terraces and away from public view.		
Dog and Cat containment	Minimum Requirements: Suburbs within Ginninderry are Cat Containment and Dog on Leash areas. Designs should give consideration to responsible pet ownership principles including the use of enclosures or cat runs. More information can be obtained at: https://www.cityservices.act.gov.au/pets-and-wildlife/domestic-animals/cats/cat-containment Dogs must remain on leash in public areas except within designated un-leashed areas such as dog parks. Dogs are not permitted in the conservation corridor.		







Integrated water meter details within courtyard walls





Part 4: Appendix A

External Colours and Finishes Schedule

Please tick the boxes below

Roof Tiles - Monier



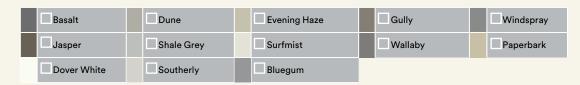
Roof Tiles - Lutum



Roof Tiles - Bristile

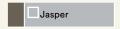


Metal Roof - Colorbond



Fence Colour - Colorbond

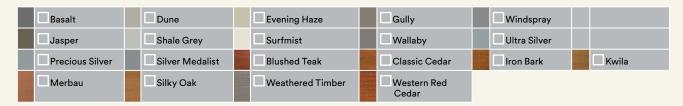
Side and Rear Boundary Fencing



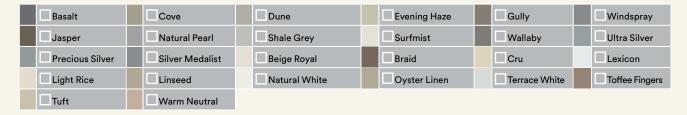
Fence Infill Panel / Street Facing Fencing - Colorbond



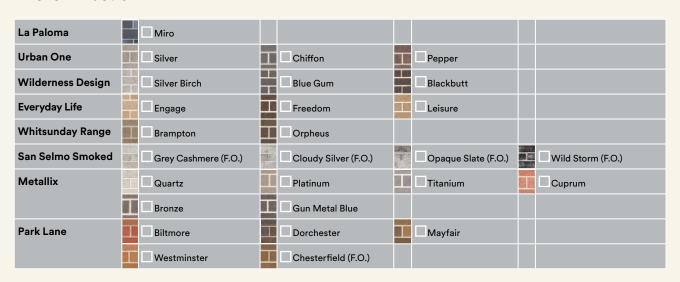
Garage Doors



Façade Colours Walls / Render / Cladding



Bricks - Austral



Bricks - PGH



Additional Colours & Finishes - Subject to Approval

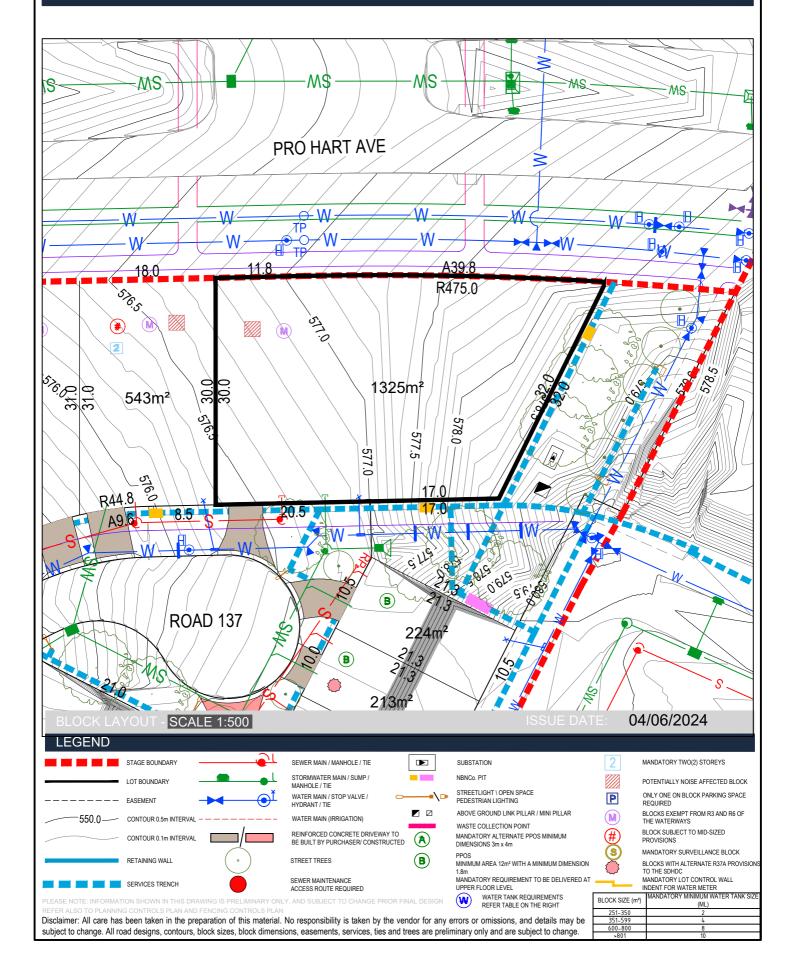
Please include brand, specification, profile and colour of proposed materials, sample photos/swatches should also be provided.

Cladding		
Retaining Walls		
Courtyard Walls		
Mailbox		
Feature Material		

Appendix B

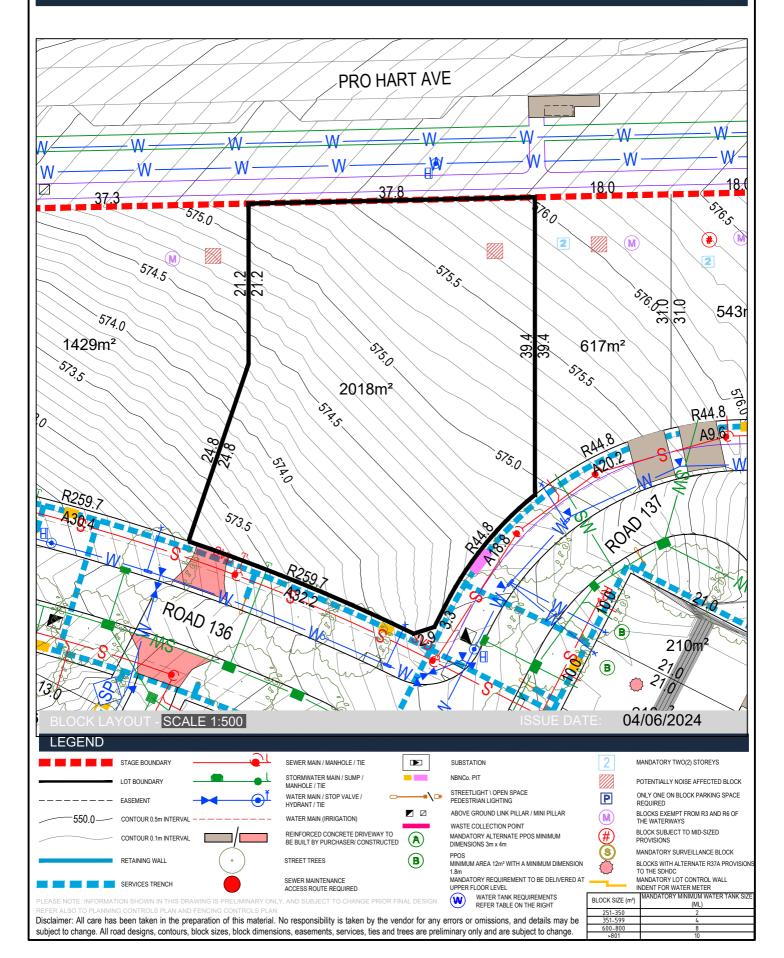


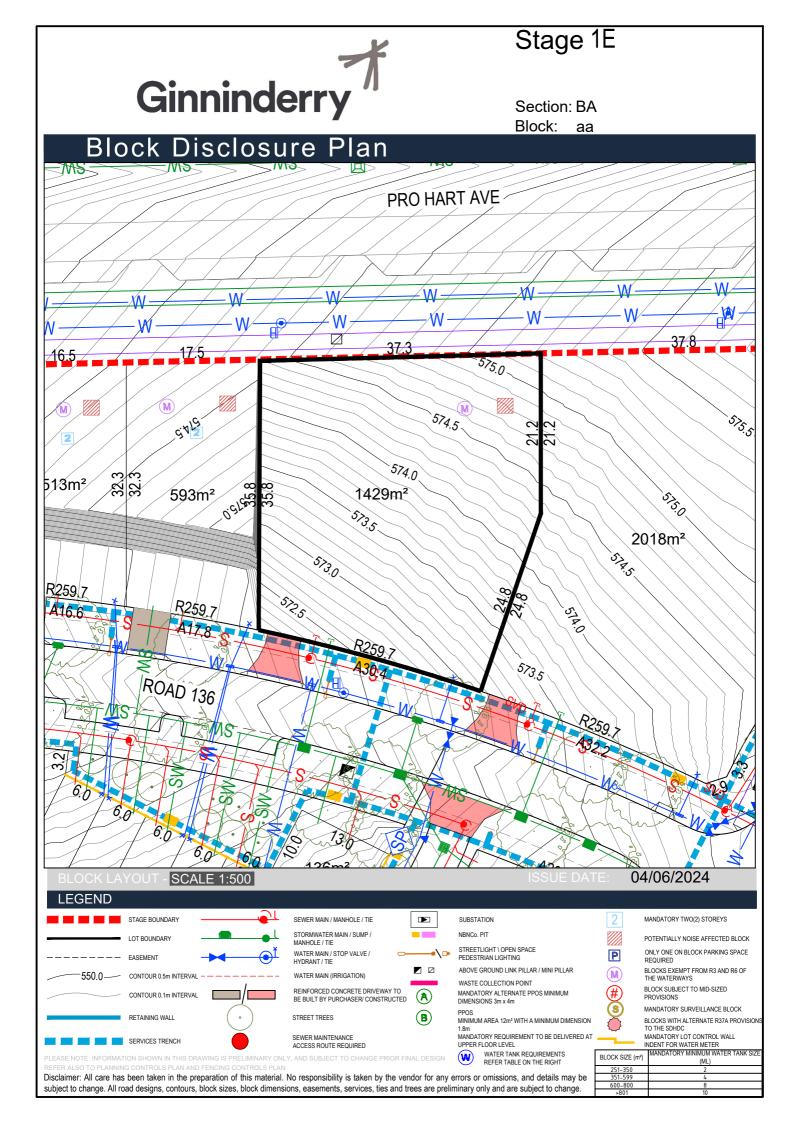
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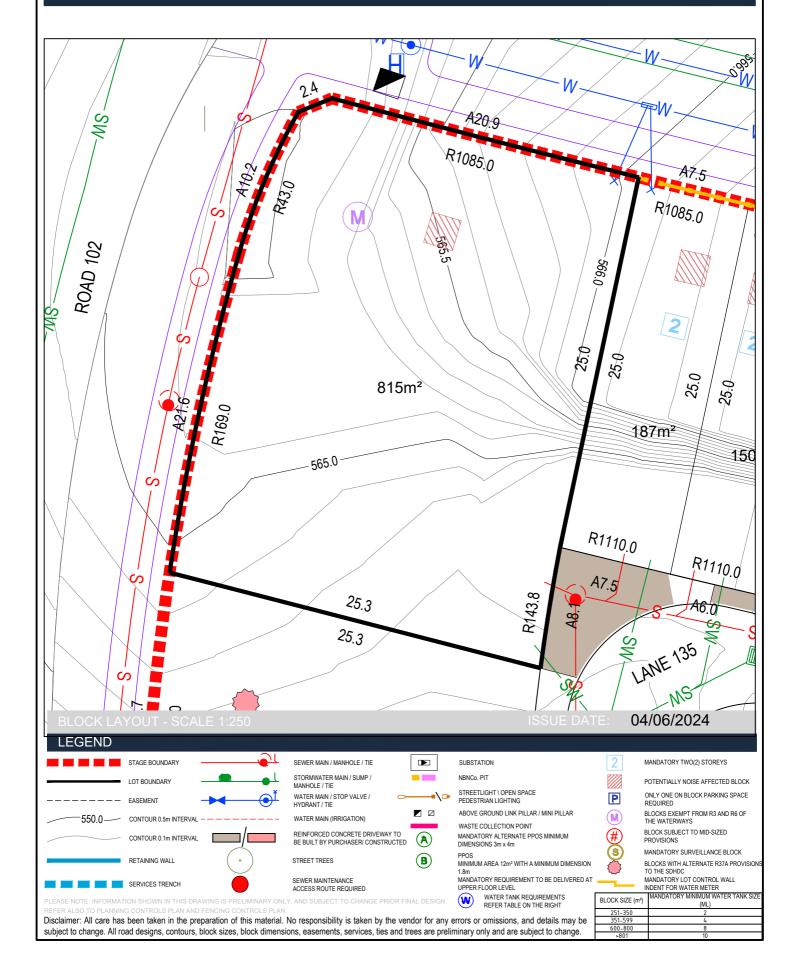
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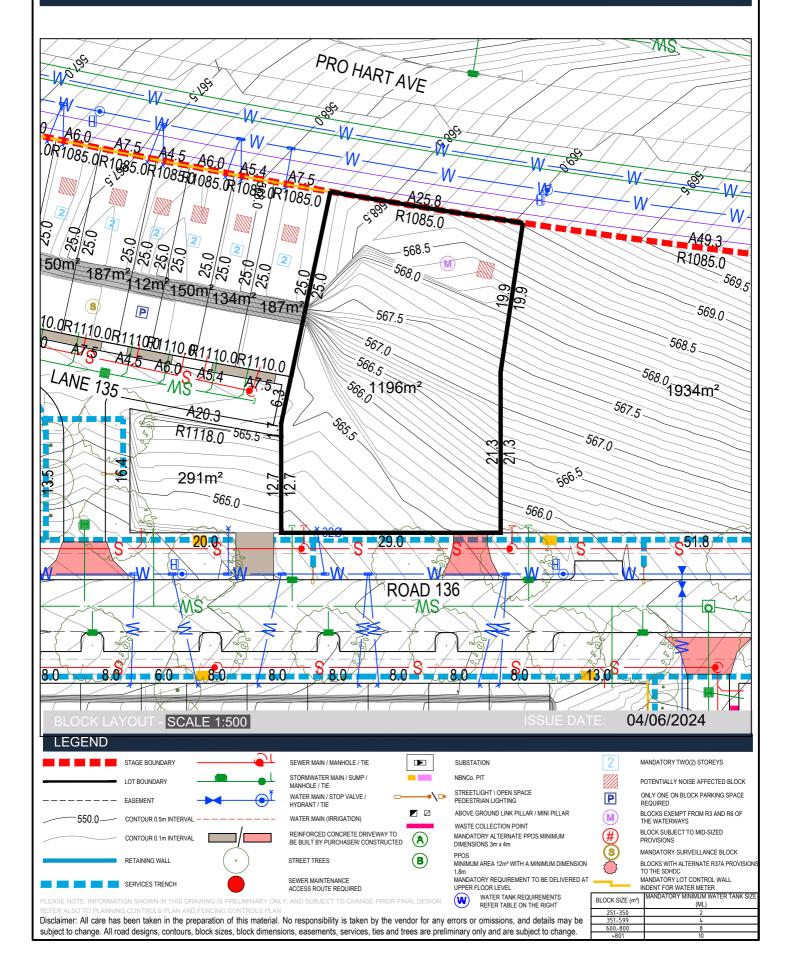


Section: BA Block: c



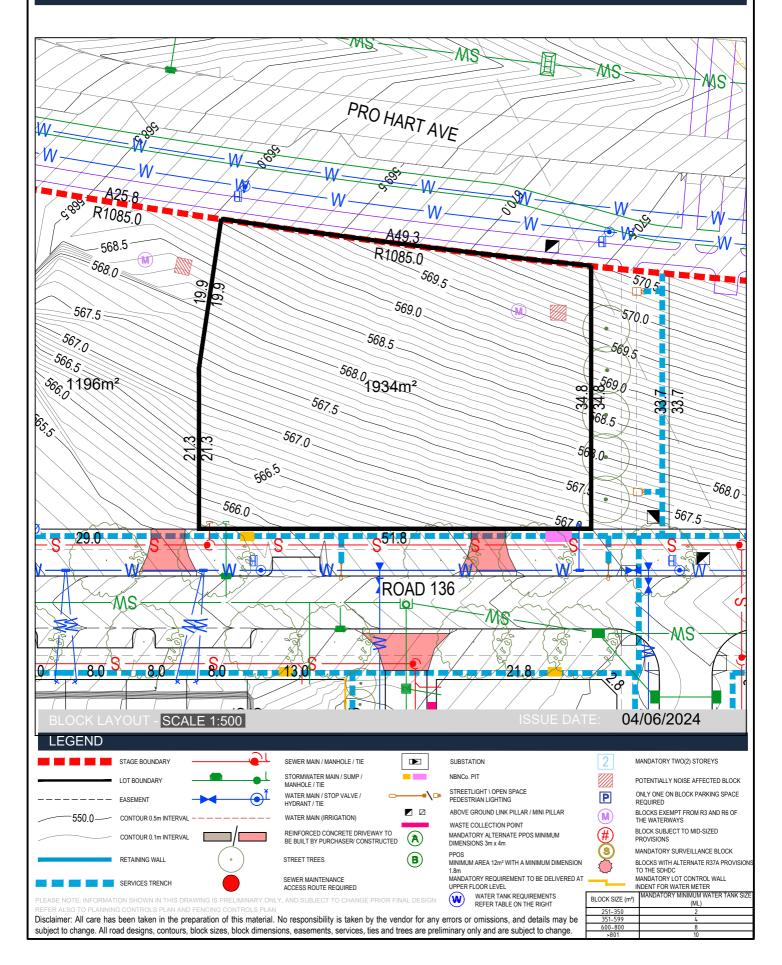


Section: BA Block: q

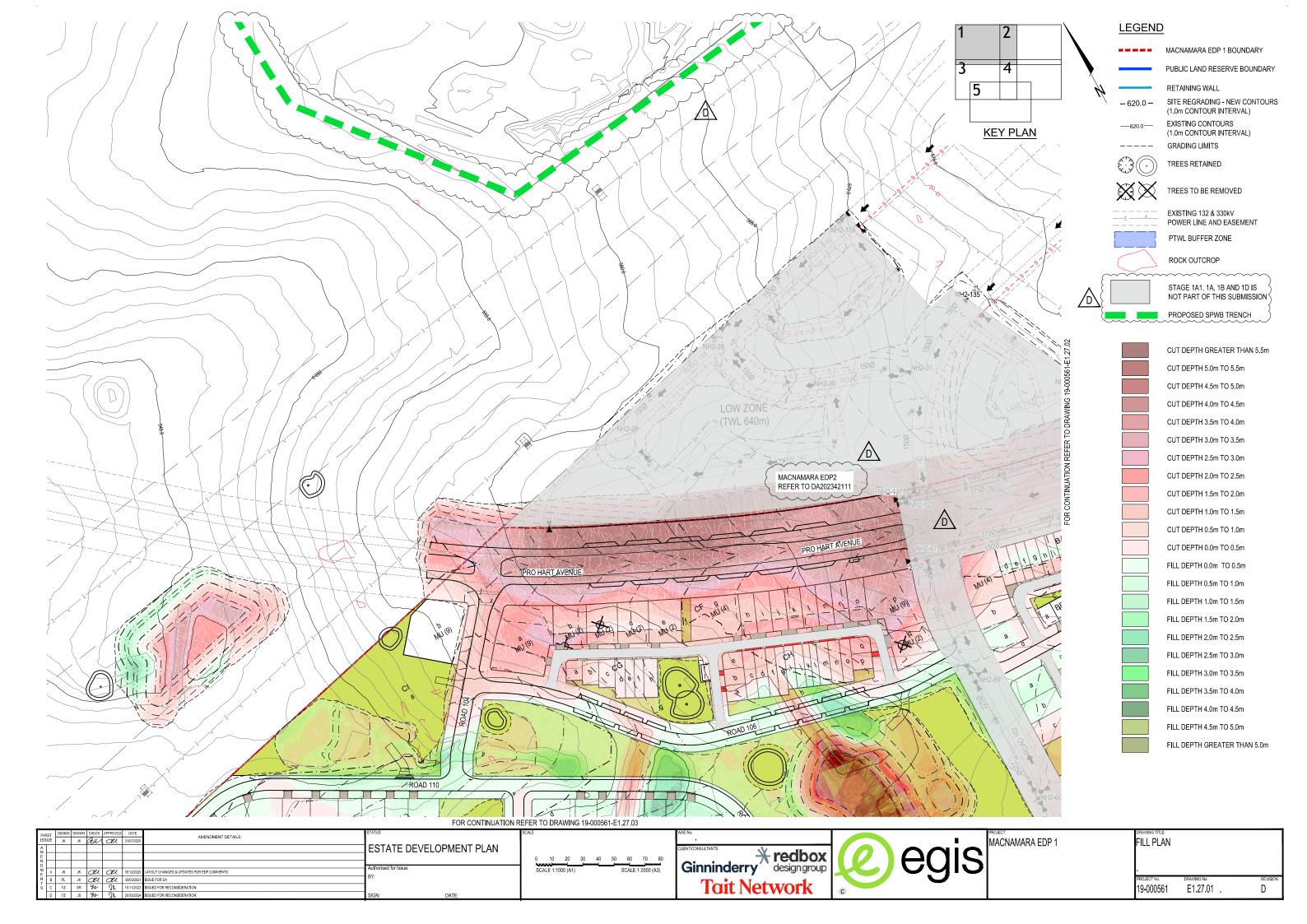


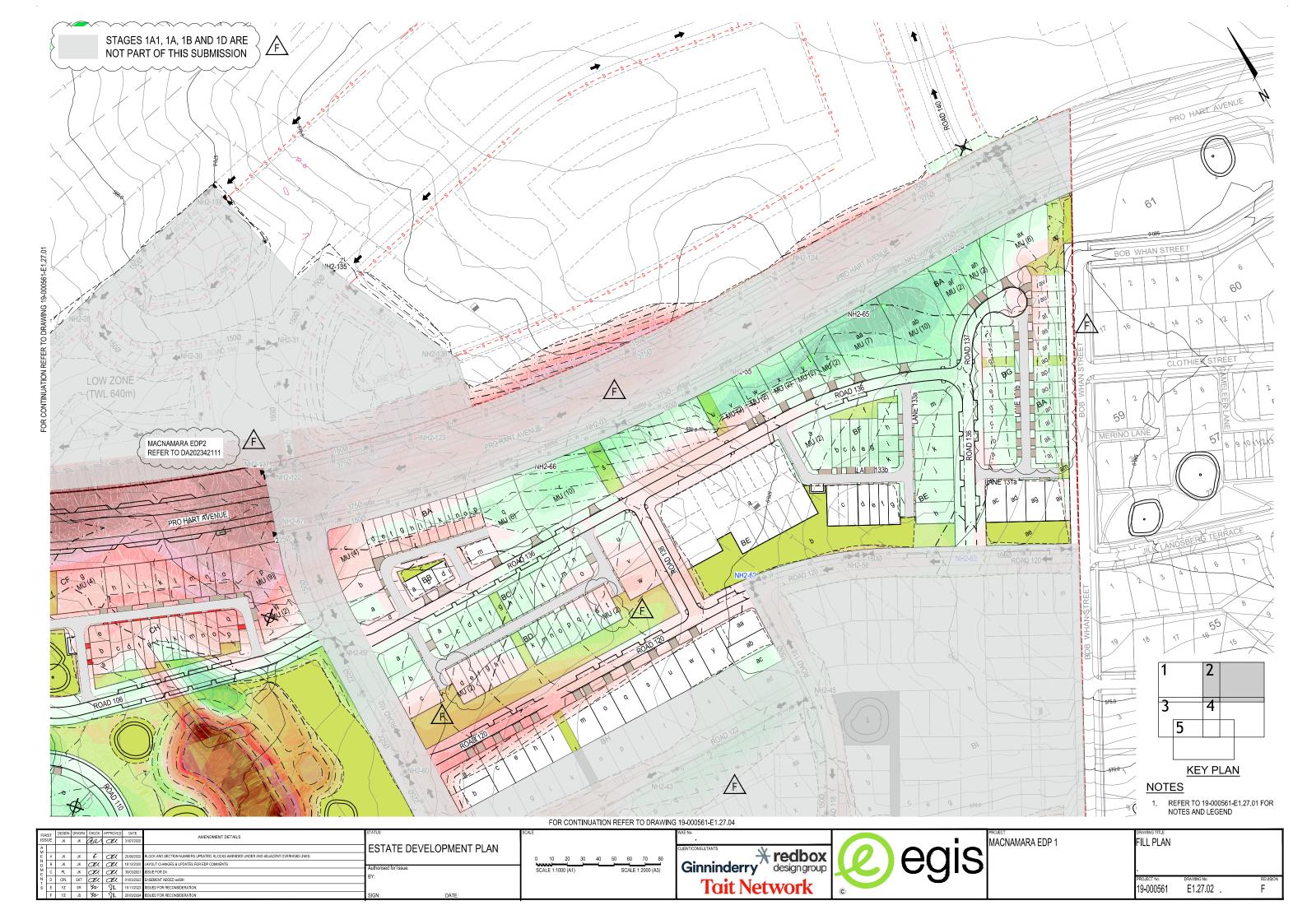


Section: BA Block: r



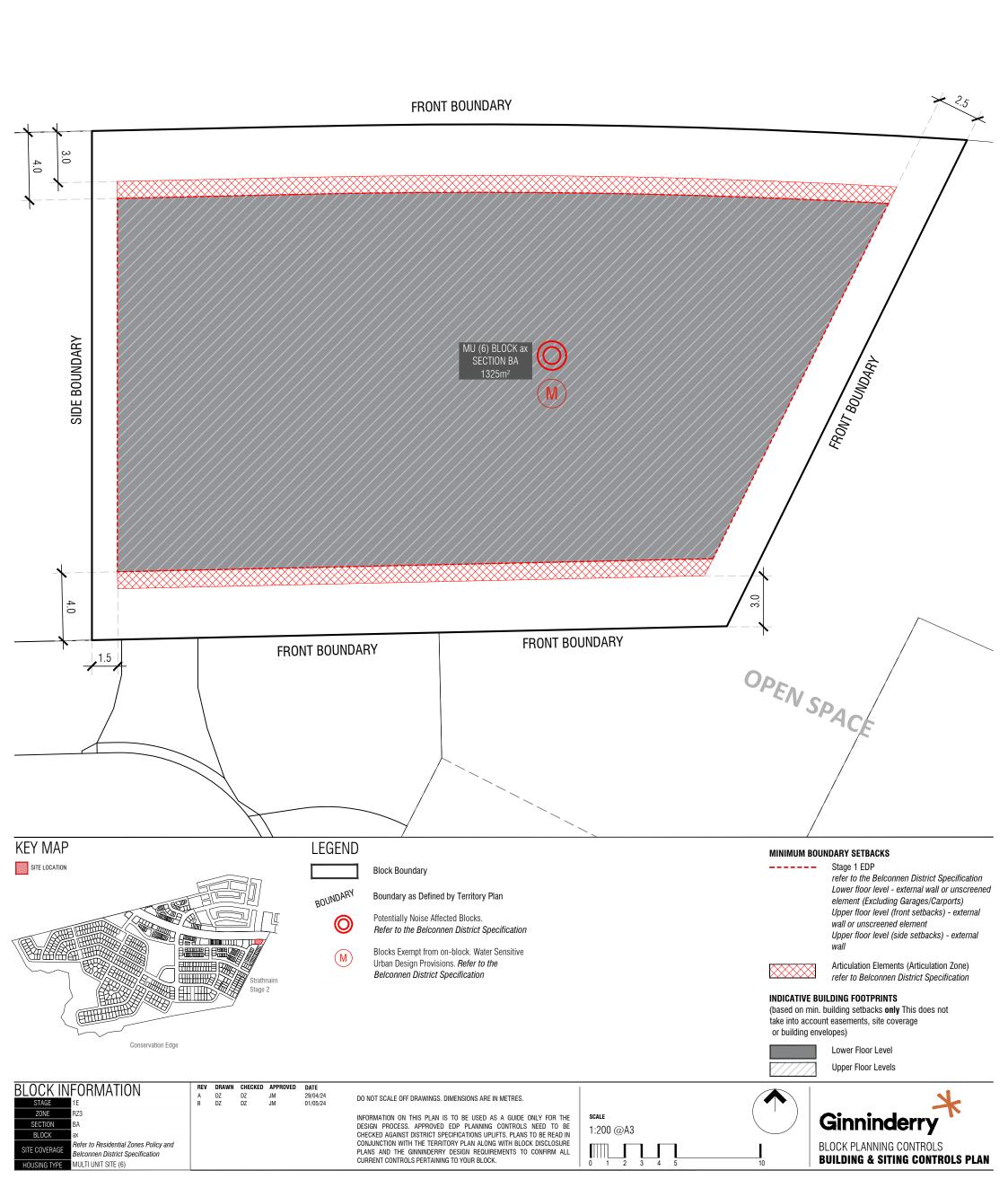
Appendix C





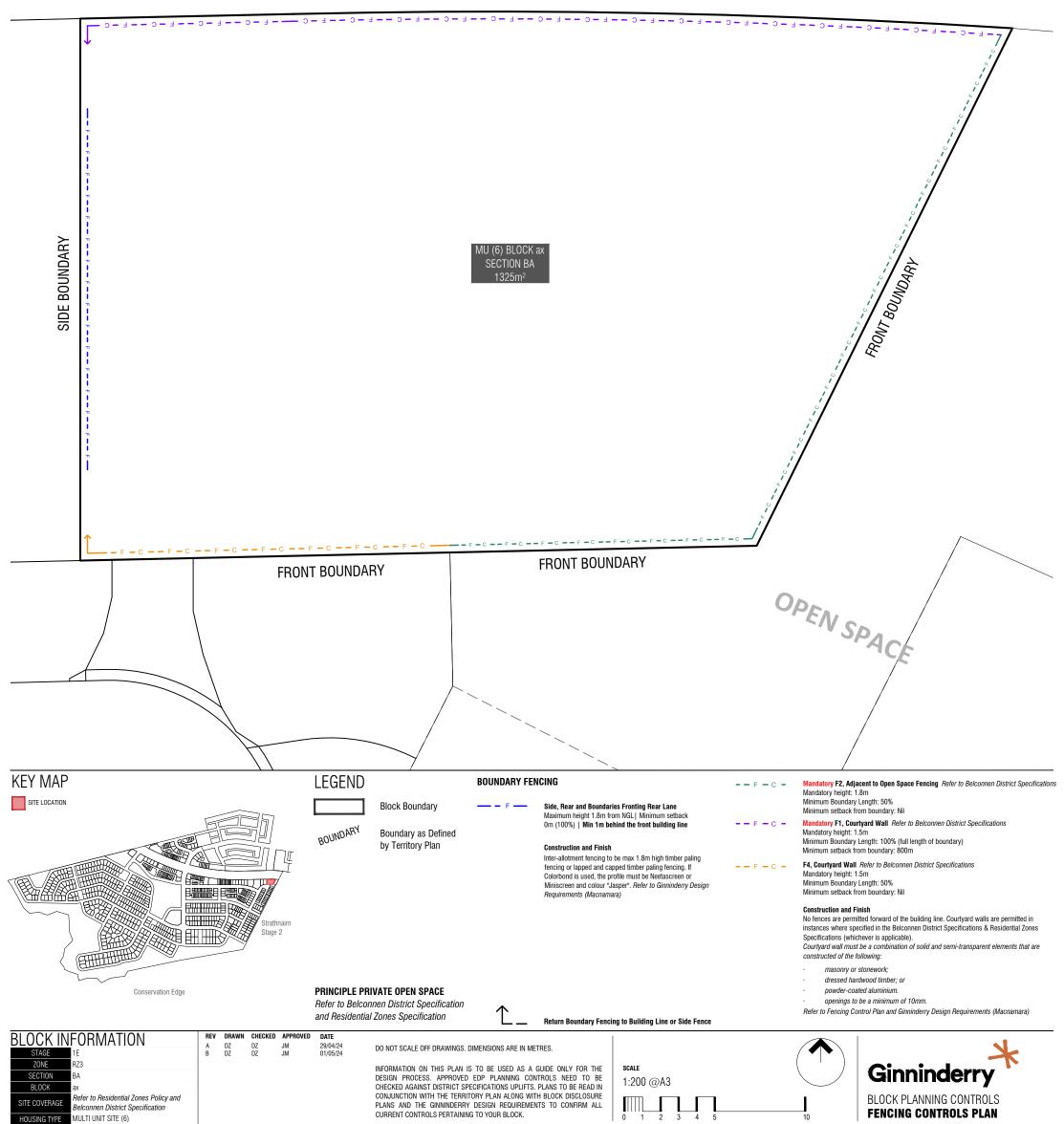
Appendix D

PRO HART AVENUE

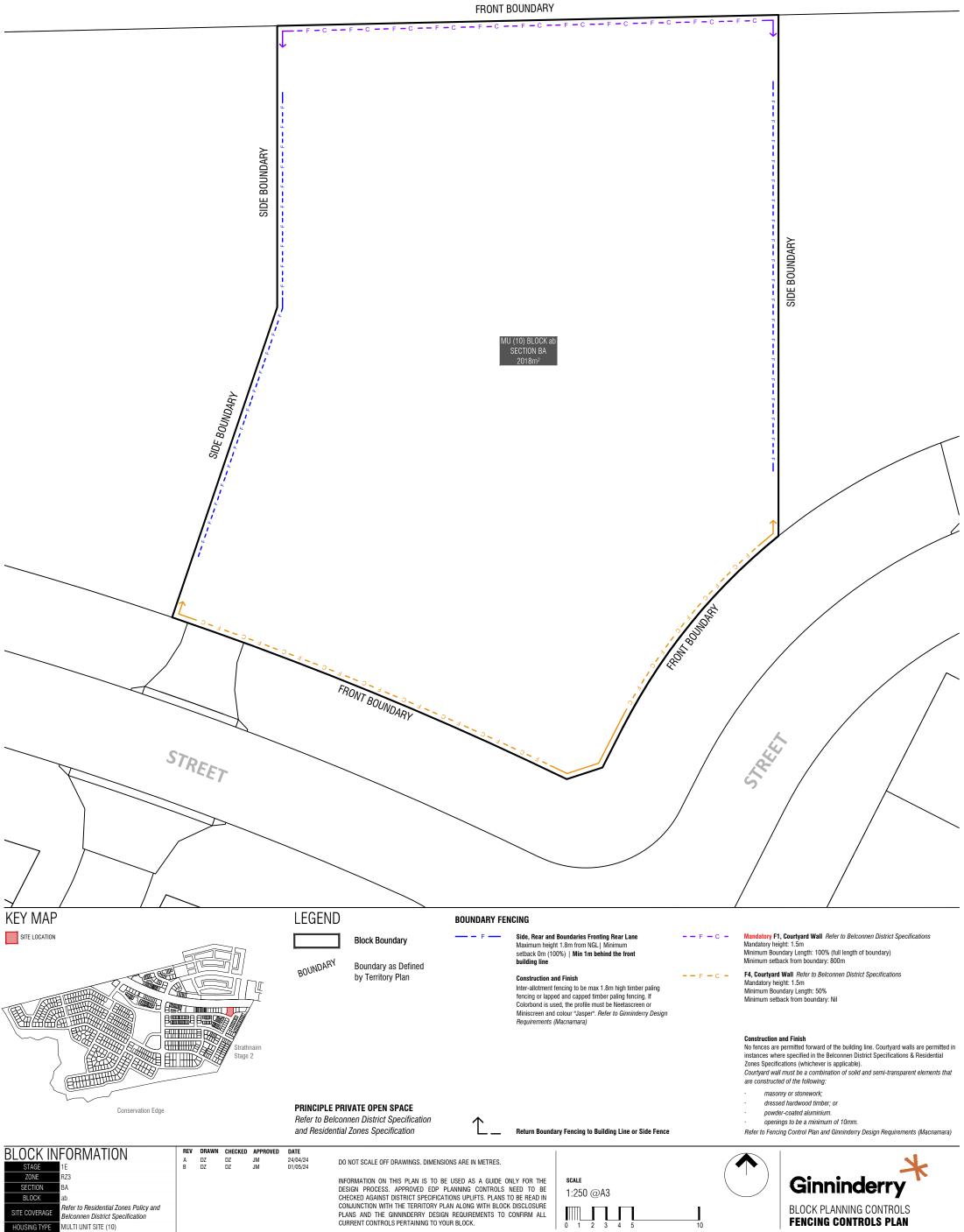


PRO HART AVENUE

FRONT BOUNDARY



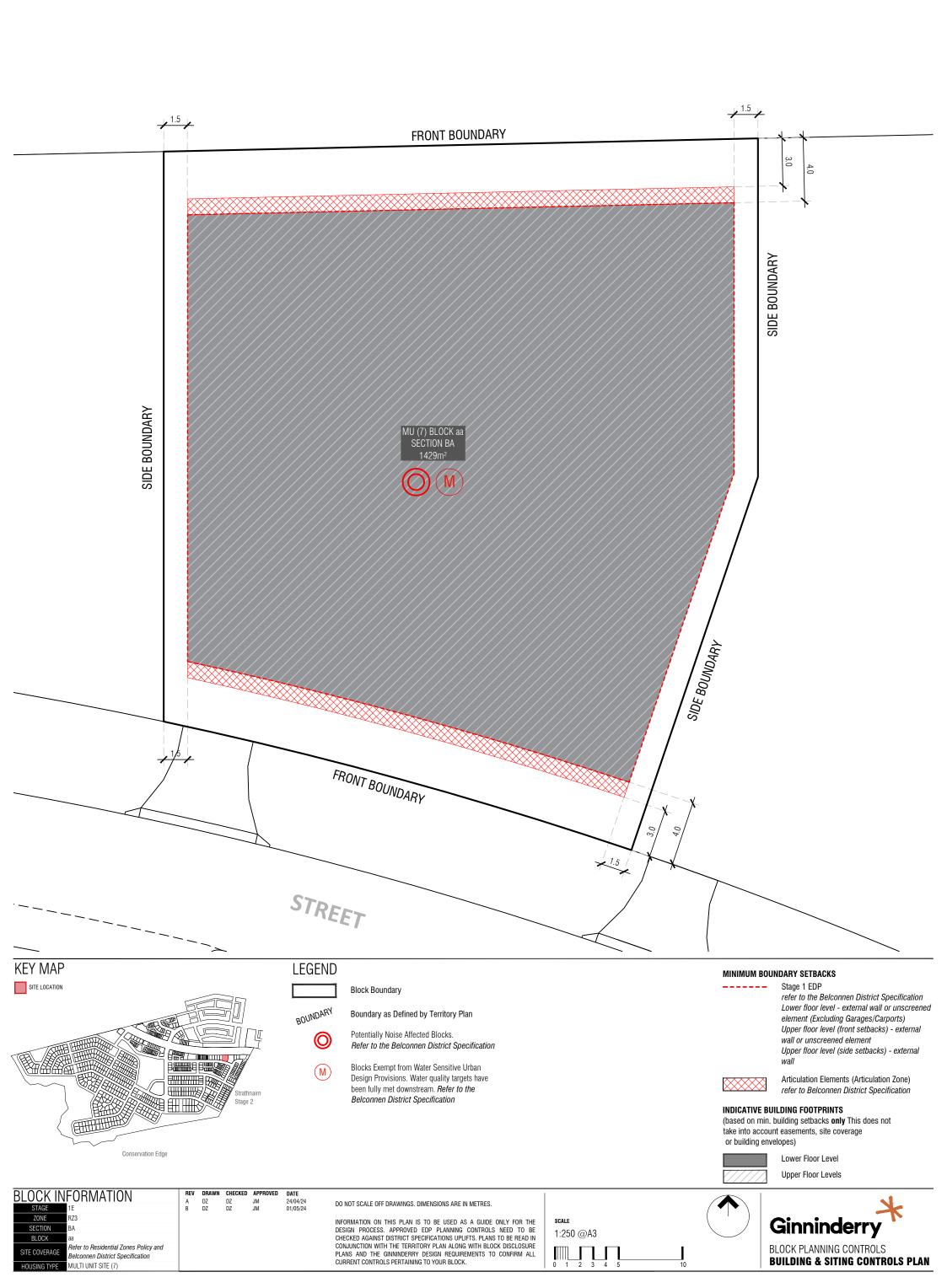




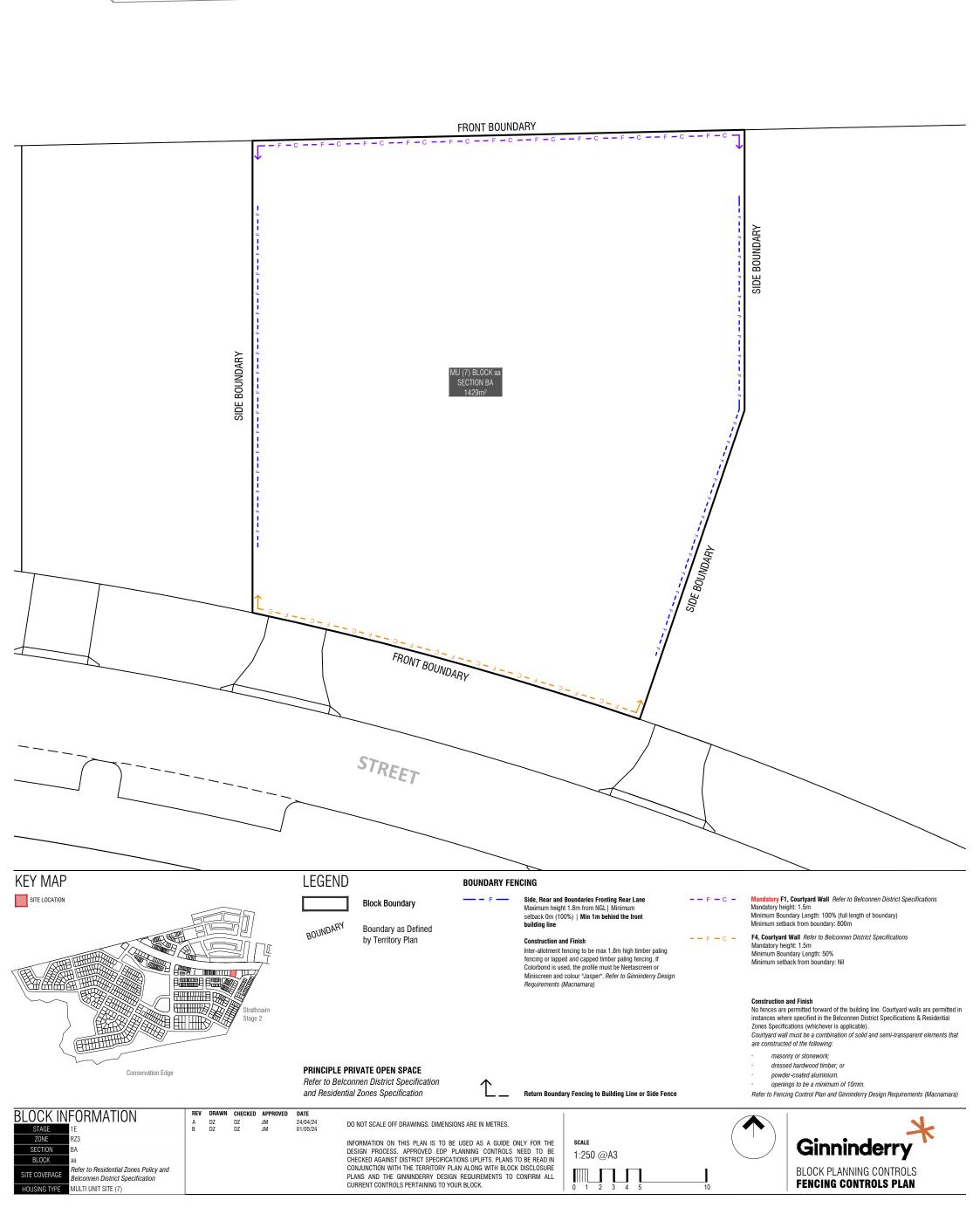
Refer to Residential Zones Policy and

Belconnen District Specification MULTI UNIT SITE (10)

SITE COVERAGE



PRO HART AVENUE











Block Boundary



Boundary as Defined by Territory Plan



Potentially Noise Affected Blocks. Refer to the Belconnen District Specification

Blocks Exempt from Water Sensitive Urban Design Provisions. Water quality targets have been fully met downstream. Refer to the Belconnen District Specification



MINIMUM BOUNDARY SETBACKS

Residential Zones Technical Specifications front setbacks: refer to Schedule 1 Table 4 side and rear setbacks: refer to Schedule 2 Table 10



Ground Floor - Unscreened

Upper Floor - Unscreened

Macnamara Stage 1 EDP

refer to the Belconnen District Specification Lower floor level - external wall or unscreened element (Excluding Garages/Carports)

Upper floor level (front setbacks) - external wall or unscreened element

Upper floor level (side setbacks) - external wall

.....

All Floor Levels - External Wall (Screened) Refer to the Residential Zones Specification



Articulation Elements (Articulation Zone) refer to Belconnen District Specification

INDICATIVE BUILDING FOOTPRINTS

(based on min. building setbacks $\mbox{\it only}$ This does not take into account easements, site coverage or building envelopes)



Lower Floor Level

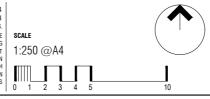
Upper Floor Levels

BLOCK INFORMATION

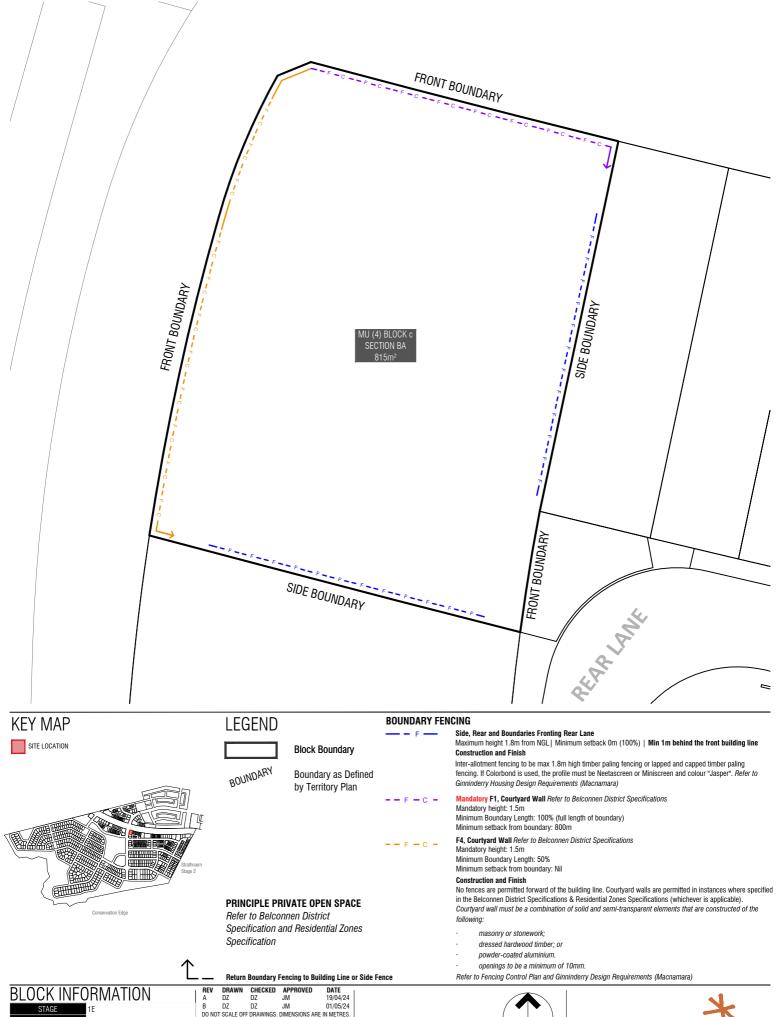
SECTION BLOCK SITE COVERAGE

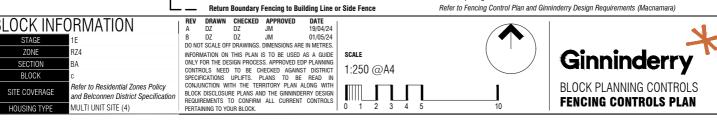
RZ4

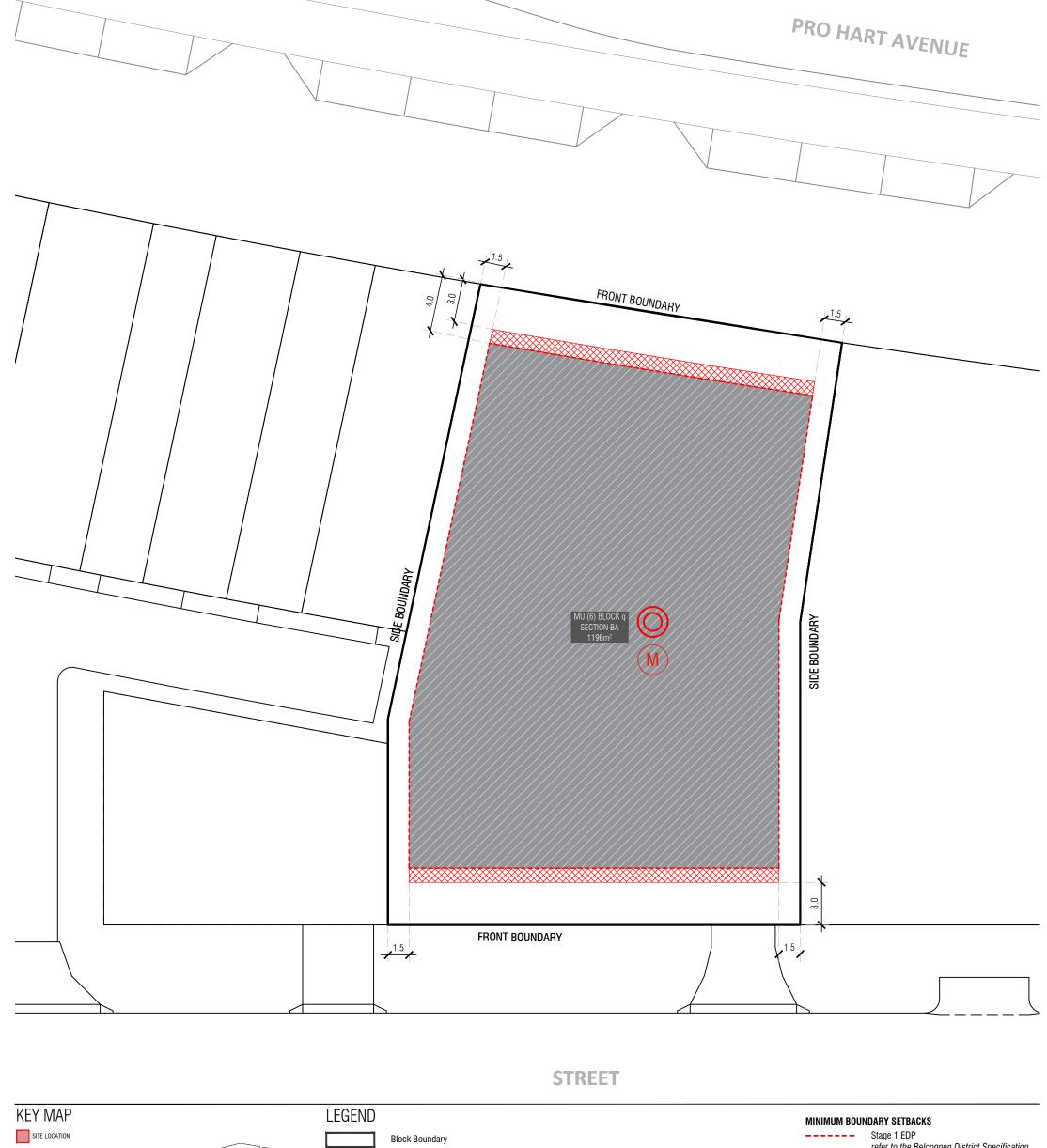
CHECKED DZ DZ DO NOT SCALE OFF DRAWINGS. DIMENSIONS ARE IN METRES DU NOT SCALE UPF DHAWNINGS, DIMENSIONS AHE IN METHES. INFORMATION ON THIS PLAN IS TO BE USED AS A GUIDE ONLY FOR THE DESIGN PROCESS. APPROVED EDP PLANNING CONTROLS. NEED TO BE CHECKED AGAINST DISTRICT SPECIFICATIONS UPPLIETS. PLANS TO BE READ IN CONJUNCTION WITH THE TERRITORY PLAN ALONG WITH BLOCK DISCLOSURE PLANS AND THE GIMINIDERRY DESIGN REQUIREMENTS TO CONFIRM ALL CURRENT CONTROLS PETTAINING TO YOUR BLOCK. Refer to Residential Zones Policy and Belconnen District Specification MULTI UNIT SITE (4) PERTAINING TO YOUR BLOCK.

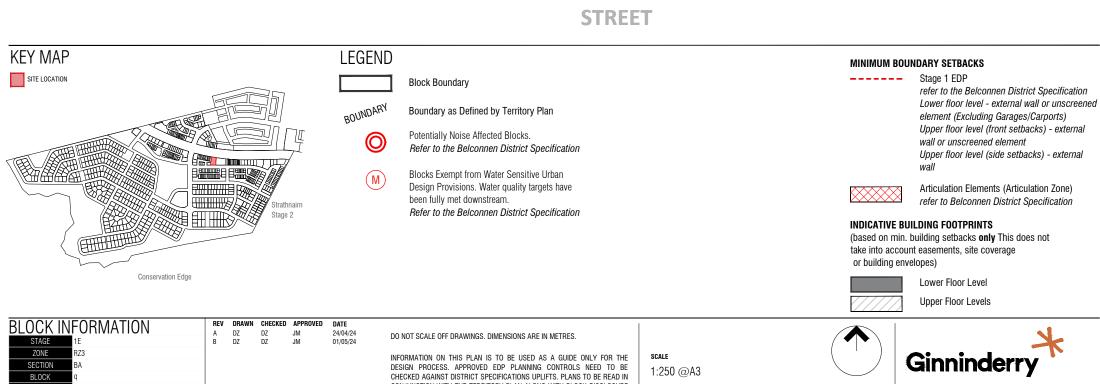












CONJUNCTION WITH THE TERRITORY PLAN ALONG WITH BLOCK DISCLOSURE

PLANS AND THE GINNINDERRY DESIGN REQUIREMENTS TO CONFIRM ALL CURRENT CONTROLS PERTAINING TO YOUR BLOCK.

BLOCK

SITE COVERAGE

HOUSING TYPE

Refer to Residential Zones Policy and

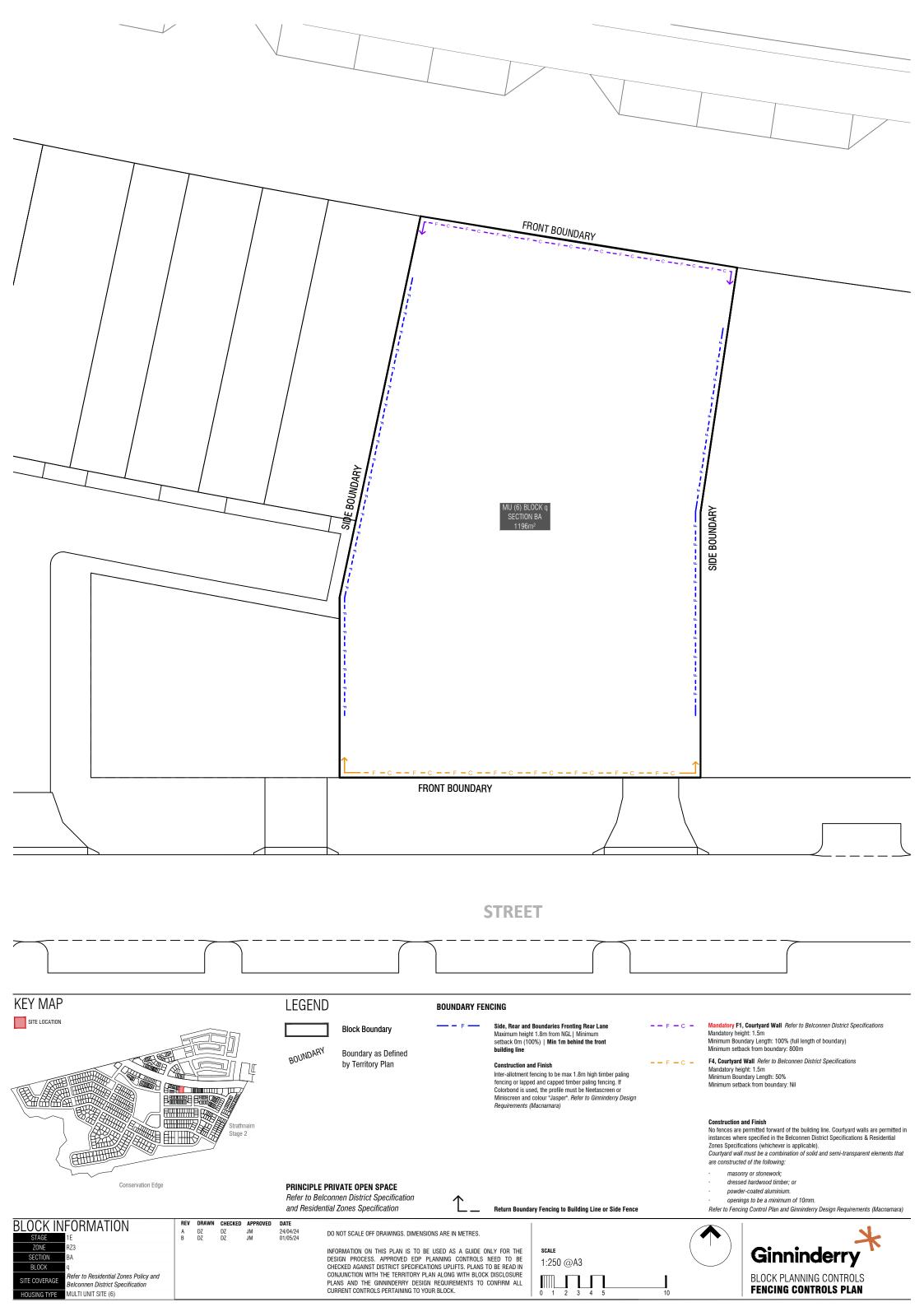
Belconnen District Specification

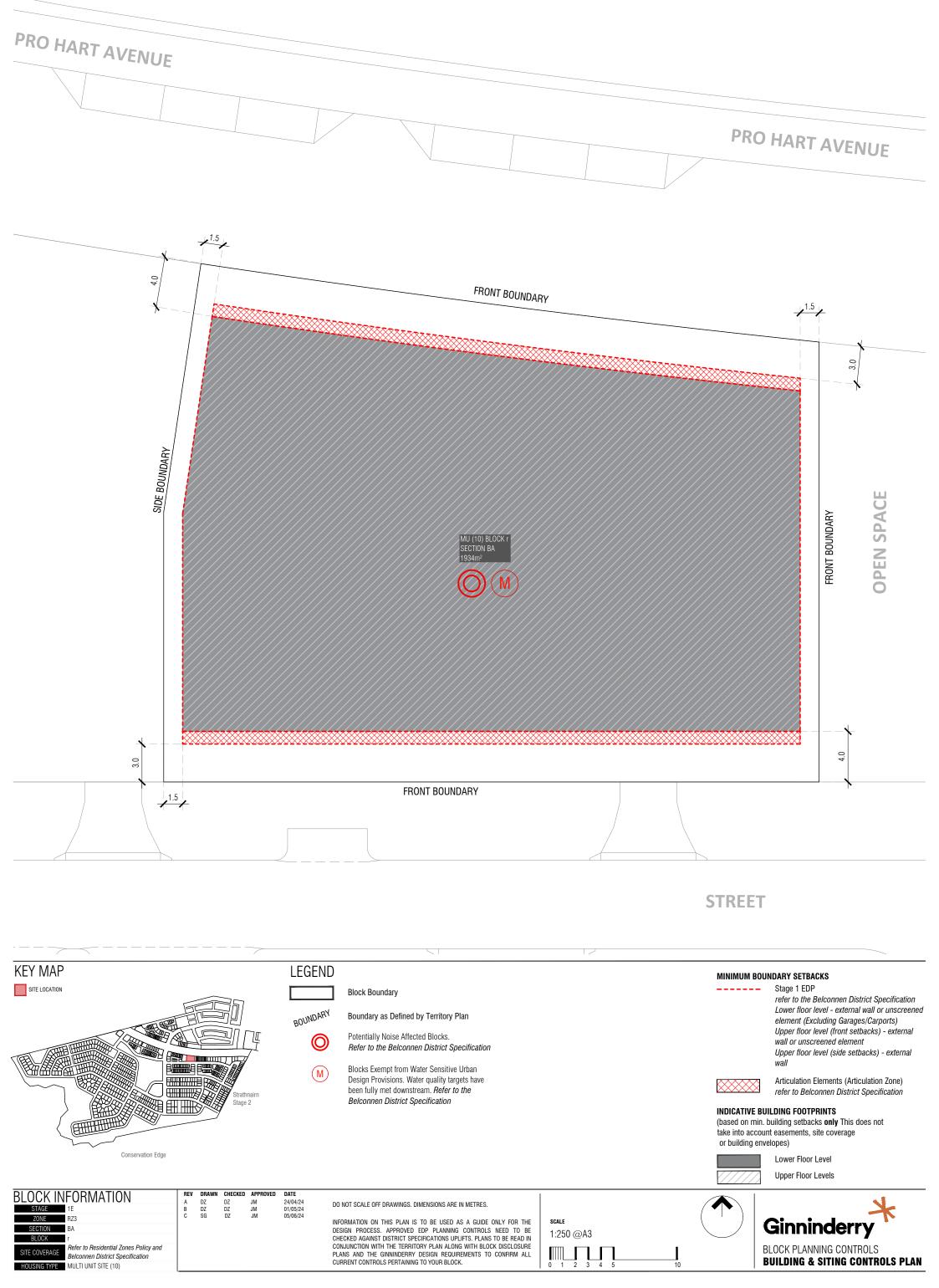
MULTI UNIT SITE (6)

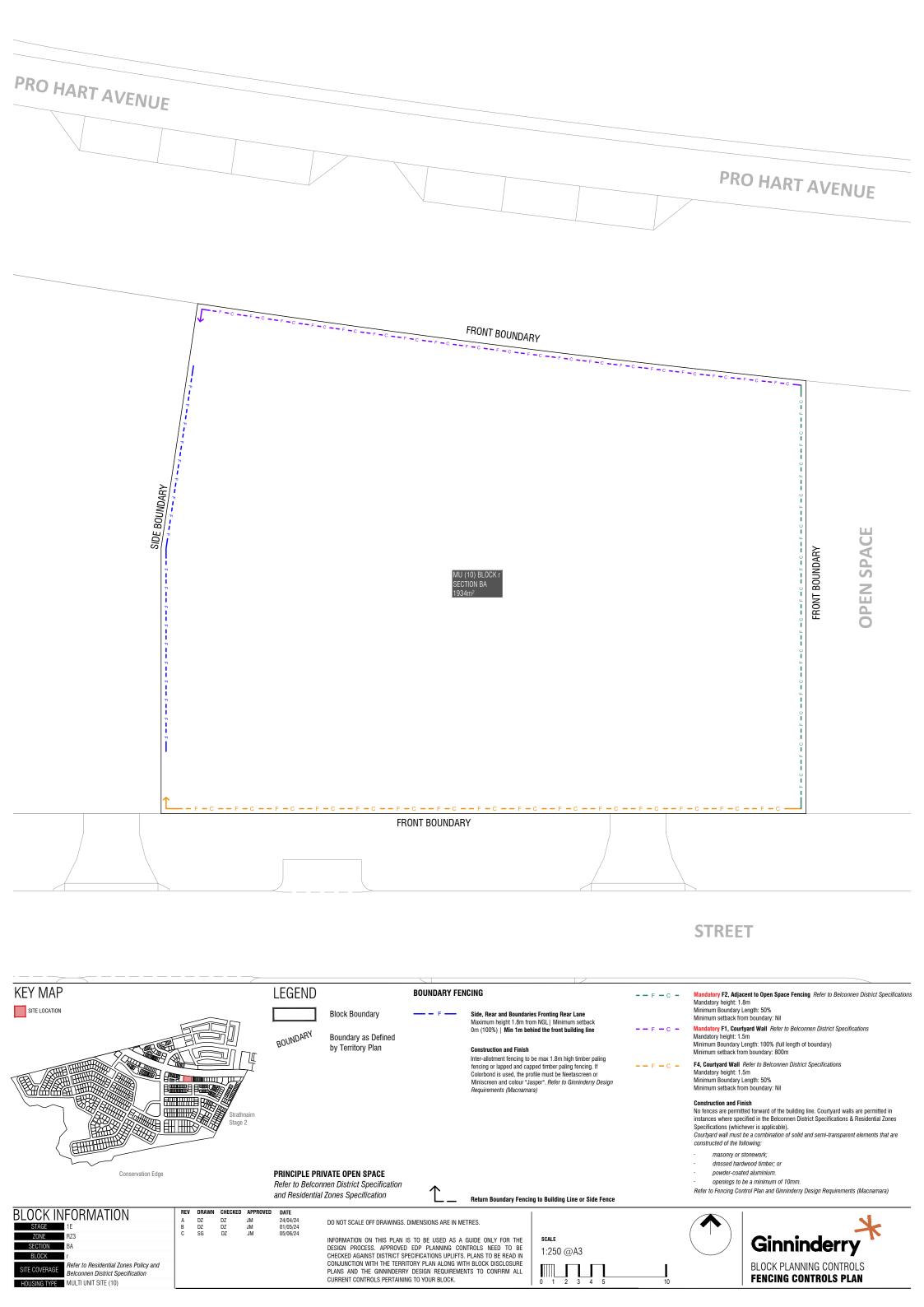
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BLOCK PLANNING CONTROLS

BUILDING & SITING CONTROLS PLAN







Macnamara Housing Development Requirements Application Form

Design Application Form

Please fill in and submit to designs@ginninderry.com

(A Design re-submission administration fee will apply after the 1st approval)

Property	details
Block/ Section	
Block size	
Purchaser	r details
Name	
Phone	
Mobile	
Email	
Designer	details
Name	
Company	
Phone	
Mobile	
Email	
Builder de	etails
Name	
Company	
Phone	
Mobile	
Email	

Contact us:

E: designs@ginninderry.com

P: 1800 316 900

Required documentation:

1. Site plan @ 1:200

- Overall Building Footprint with setback dimensions to the boundaries
- · North point site contours
- · Services and Easements
- Location of all AC, HWS, RWT, Solar Battery, Fan units, clothes lines
- · Extent of retaining walls
- · Location and dimensions of (PPOS)
- · Finished floor levels for the house and garage
- Area schedule of the dwelling including block size / POS / PPOS / all GFA / Garage / carports / hardstands

2. Sediment and Erosion Control Plan @ 1:200

3. Floor Plans @ 1:100

- · Fully dimensioned floor plan for each level
- · Show all room names
- · All internal walls / doors
- · Finished levels
- · Area schedule

4. Elevations @ 1:100

- · North / South / East / West
- · NGL & FGL
- · FFL / FCL
- · Roof Pitch
- · Extent of Cut and Fill

5. Sections @ 1:100

- · Section A-A
- · Section B-B
- NGL & FGL
- · All structure / internal walls
- · Extent of Cut and Fill and retaining walls

6. Roof Plan @ 1:100

- · Roof pitches
- Eaves depths
- · Solar panel location
- · Roof material & colour

7. Landscape / Fencing Plan @ 1:200

- · All side and rear fencing (refer to PCP's for each block)
- · All courtyard walls
- · Mail box type, material and location
- Extent of all retaining walls
- Area schedule of soft planting zone / canopy cover / paved or non-permeable areas

8. External Colours and Finishes Schedule

- · Front façades @ 1:100
- · Identify all front façade materials and colours
- Schedule or a table specification and image of proposed materials (if alternate from the pre-approved finishes)

9. NatHERS EER Certificate

- NatHERS energy efficiency rating report and certificate generated by NatHERS approved software package
- NatHERS stamped plans

10. Sustainability Schedule

External Colours and Finishes Schedule

Please tick the boxes below

Roof Tiles - Monier



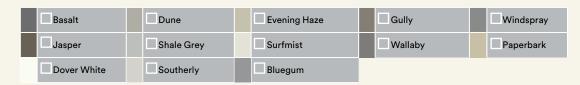
Roof Tiles - Lutum



Roof Tiles - Bristile

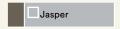


Metal Roof - Colorbond



Fence Colour - Colorbond

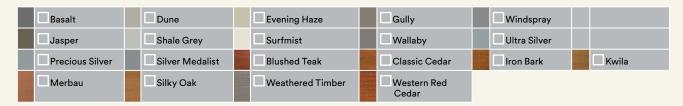
Side and Rear Boundary Fencing



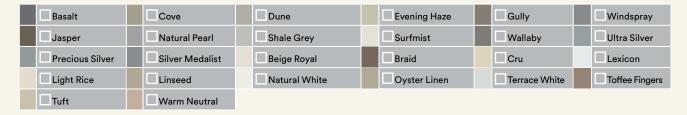
Fence Infill Panel / Street Facing Fencing - Colorbond



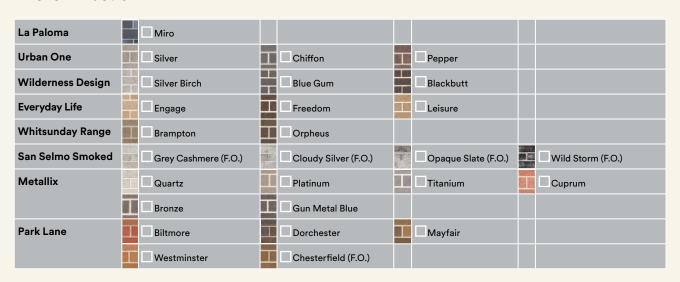
Garage Doors



Façade Colours Walls / Render / Cladding



Bricks - Austral



Bricks - PGH



Additional Colours & Finishes - Subject to Approval

Please include brand, specification, profile and colour of proposed materials, sample photos/swatches should also be provided.

Cladding		
Retaining Walls		
Courtyard Walls		
Mailbox		
Feature Material		

Sustainability Schedule

Minimum Requirements as per element 2.0 Efficient Home Design

Solar PV Array			Air Conditioning System (if installed):				
Size (kW)			RCAC				
Home Energy Management System	Evergen Reposit (battery only	r) Bra		please specify			
Inverter:			Indoor Model No.				
Brand							
Model No.			tdoor del No.				
Battery (optional):			Rainwater Tank:				
Brand	nd		e (L)				
Size (kWh)				eted to at least a aundry cold water			
Hot Water Syste	m:			ernal taps			
Solar		Wa	Water Fixtures note:				
	Heat Pump		Please complete or provide equivalent selection list (must clearly show star rating)				
Brand			Note: Specification sheets, builders inclusions lists				
Model No.	el No.		sheets or contract excerpts will not be accepted.				
Water Fixtures:							
water rixtures:							
Room	Туре	Model	Flow Rate	Star Rating			
	Type Eg. Sink mixer	Model Eg. Clark6310	Flow Rate Eg. 5L/min	Star Rating Eg. 4 Star			

Ginninderry **