

Metro Outer Joint Development Assessment Panel Agenda

Meeting Date and Time: Meeting Number: Meeting Venue: Thursday, 14 May 2020; 1:30pm MOJDAP/3 This meeting is available for members of the public to attend via electronic means

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This DAP meeting will be conducted by electronic means open to the public rather than requiring attendance in person.

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Attendance

DAP Members

Mr Ian Birch (Presiding Member) Ms Sheryl Chaffer (Deputy Presiding Member) Mr Jason Hick (Third Specialist Member) Cr Suzanne Thompson (Local Government Member, City of Joondalup) Cr Philippa Taylor (Local Government Member, City of Joondalup)

Officers in attendance

Mr Tim Thornton (City of Joondalup) Mr Chris Leigh (City of Joondalup)

Minute Secretary

Mr Phil Goodwin (DAP Secretariat)

Applicants and Submitters

Mr Giles Harden Jones (Harden Jones Architect)

Members of the Public / Media

Nil

1. Opening of Meeting, Welcome and Acknowledgement

The Presiding Member declares the meeting open and acknowledges the traditional owners and pay respects to Elders past and present of the land on which the meeting is being held.

In response to the COVID-19 situation, this meeting is being conducted by electronic means open to the public. Members are reminded to announce their name and title prior to speaking.

2. Apologies

Nil

3. Members on Leave of Absence

Nil

4. Noting of Minutes

Signed minutes of previous meetings are available on the <u>DAP website</u>.

5. Declarations of Due Consideration

Any member who is not familiar with the substance of any report or other information provided for consideration at the DAP meeting must declare that fact before the meeting considers the matter.



6. Disclosure of Interests

Nil

7. Deputations and Presentations

The City of Joondalup may be provided with the opportunity to respond to questions of the panel, as invited by the Presiding Member.

8. Form 1 – Responsible Authority Reports – DAP Applications

Nil

9. Form 2 – Responsible Authority Reports – DAP Amendment or Cancellation of Approval

Nil

10 State Administrative Tribunal Applications and Supreme Court Appeals

10.1 Lot 104 & 105 (8 & 10) Brechin Court, Duncraig

16 Multiple Dwellings
Harden Jones Architect
Mr Heinrich Arnoldus Kuenen
City of Joondalup
DAP/19/01557

Current SAT Applications				
File No. &	LG Name	Property	Application	Date
SAT		Location	Description	Lodged
DR No.				
DAP/19/01597	City of	Lot 11 Southern	Development of	30/8/2019
DR 174/2019	Gosnells	River Road,	Shopping Centre	
		Southern River		
DAP/19/01575	City of	Lot 9007 (76)	Lifestyle Village	10/12/2019
DR 256/2019	Armadale	Southampton	(Piara Waters	
		Drive, Piara	Lifestyle Village)	
		Waters		

Current Supreme Court Appeals				
File No.	LG Name	Property	Application	Date
		Location	Description	Lodged
DAP/18/01394	Shire of	Lot 12 (1537)	Use and	5/7/2019
CACV 75 of	Serpentine	Thomas Road	Development of a	
2019	Jarrahdale	and Lot 50	Caltex service	
		Nicholson Road,	station/convenience	
		Oakford	store	

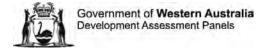


Finalised SAT Applications*				
File No. & SAT DR No.	LG Name	Property Location	Application Description	Date Lodged
DAP/16/01007 DR 388/2016	City of Swan	Lot 357 (227) Morrison Road, Midvale	Neighbourhood Centre (Shop, Consulting Rooms, Recreation – Private, Fast Food Outlet, Convenience Store)	12/12/2016

11 General Business

In accordance with Section 7.3 of the DAP Standing Orders 2017 only the Presiding Member may publicly comment on the operations or determinations of a DAP and other DAP members should not be approached to make comment.

12 Meeting Closure



State Administrative Tribunal Reconsideration

Responsible Authority Report

(Regulation 12)

Property Location:	Lots 104 and 105 (8 and 10) Brechin Court,		
	Duncraig		
Development Description:	16 Multiple Dwellings		
DAP Name:	Metro Outer JDAP		
Applicant:	Harden Jones Architects		
Owner:	H Kuenen		
Value of Development:	\$3 million		
LG Reference:	DA18/1389		
Responsible Authority:	City of Joondalup		
Authorising Officer:	Dale Page		
	Director Planning and Community		
	Development		
DAP No:	DAP/19/01557		
Report Date:	4 May 2020		
Application Received Date:	1 August 2019		
Application Process Days:	195 days		
Attachment(s):	1: Location plan		
	2: Development plans and elevations		
	3: Building perspectives		
	4: Context plans		
	5: Shadow diagram		
	6: Landscape plans		
	7: Solar access/cross ventilation diagrams		
	8: Waste management plan		
	9: Transport impact statement		
	10: Environmentally sustainable design		
	checklist		
	11: Previous determination notice and		
	refused plans		
	12: Consultation summary of submissions		
	13: Summary SPP7.3 assessment		

Officer Recommendation:

That the Metro Outer Joint Development Assessment Panel, pursuant to section 31 of the *State Administrative Tribunal Act 2004* in respect of SAT application DR 159 of 2019, resolves to:

Reconsider its decision dated 23 July 2019 and **refuse** DAP Application reference DAP/19/01557 and amended plans (Attachment 2) in accordance with Clause 68 of Schedule 2 (Deemed Provisions) of the *Planning and Development (Local Planning Schemes) Regulations 2015* and the provisions of the City of Joondalup *Local Planning Scheme No. 3*, for the following reasons:

Reasons

- 1. The proposal does not satisfy the matters to be considered under clause 67(c), Schedule 2, Part 9 of the Planning and Development (Local Planning Schemes) Regulations 2015, as:
 - i. The proposal does not satisfy the element objectives of 2.4 Side and rear setbacks of State Planning Policy 7.3 Volume 2, as the setbacks do not provide adequate separation between neighbouring properties and the development does not provide an appropriate transition between sites with different intensity of development.
 - ii. The proposal does not satisfy the element objective of 2.5 *Plot ratio* of State Planning Policy 7.3 Volume 2, as building bulk and scale of the development is not appropriate for the existing and planned character of the area.
 - iii. The proposal does not satisfy the element objectives of 2.7 *Building separation* of State Planning Policy 7.3 Volume 2, as the development results in undue impacts to residential amenity of neighbouring properties including visual privacy impacts and sunlight and daylight access.
 - iv. The proposal does not satisfy the element objectives of *3.2 Orientation* of State Planning Policy 7.3 Volume 2, as the building form and orientation does not minimise overshadowing of open space of the neighbouring property.
 - v. The proposal does not satisfy the element objectives of *3.5 Visual privacy* and *4.4 Private open space and balconies* of State Planning Policy 7.3 Volume 2, as the extent of privacy screening of outdoor living areas results in a compromised external outlook from adjoining habitable rooms.
- 2. The proposal does not satisfy the matters to be considered under clause 67(m) of Schedule 2, Part 9 of the Planning and Development (Local Planning Schemes) Regulations 2015, as:
 - i. the bulk and scale of the development is not compatible with its setting particularly the relationship of development to development on adjoining land.
- 3. The proposal does not satisfy the matters to be considered under clause 67(zc) of Schedule 2, Part 9 of the Planning and Development (Local Planning Schemes) Regulations 2015, as:
 - i. the proposal has not appropriately responded to advice from the Joondalup Design Reference Panel in relation to vehicle and pedestrian access, impact of air conditioner units and roof design detail.

Details: outline of development application

Zoning	MRS:	Urban
	TPS:	Residential R20/60
Use Class:		Multiple Dwelling
Strategy Policy:		Not applicable

Development Scheme:	City of Joondalup Local Planning Scheme No. 3
Lot Size:	1,424m ²
Existing Land Use:	Single House

The amended development proposal consists of the following:

- 16 multiple dwellings within a three-storey building, including three one-bedroom apartments, 12 two-bedroom apartments and one three-bedroom apartment, serviced by a communal lift.
- A common vehicle access point from Brechin Court.
- A total of 25 on-site car parking bays, with 21 bays allocated to residents and four bays for visitors.
- Two pedestrian entries to the building, one facing the street and another from the carpark.
- Landscaping, including deep soil zones, in the street setback area, around the ground floor communal area, the building, the car parking area, the driveway and within upper floor balconies.
- Front fencing around courtyards facing Brechin Court.
- A bin enclosure located to the rear of the visitor car parking area.
- Associated site works and retaining walls.

The development plans are provided in Attachment 2, with the supporting plans and documentation provided in Attachments 3 - 10.

Background:

The applicant seeks development approval for a three-storey, 16 multiple dwelling development at Lots 104 and 105 (8 and 10) Brechin Court, Duncraig (subject site).

The proposed development is a modification to a previous proposal refused by the Metro North-West Joint Development Assessment Panel (JDAP) at its meeting held on 23 July 2019. The applicant has sought a review of the JDAP's decision via the State Administrative Tribunal and, following mediation, now seeks approval for an amended proposal. The determination letter and development plans for the original proposal are provided at Attachment 11.

The development modifications have not reduced the yield or significantly changed the proposal since the JDAP's original decision. The key changes that have been made are:

- Internal reconfiguration of apartment layouts including the conversion of two threebedroom apartments to two two-bedroom apartments.
- Increase in upper floor setbacks to the northern, eastern and southern boundaries.
- Modification to the built form on the southern façade to reduce the amount of shadow cast by the development.
- Addition of a large tree, medium tree and additional small trees within the overall landscape design as well as shade trees along the eastern side of the car parking area.
- Removal of seven on-site resident car parking bays and relocation of visitor parking from the front setback area.
- Incorporation of screening between the communal open space and car parking area.

- East and south facing bedroom windows modified to meet suggested acceptable outcomes in relation to visual privacy with the inclusion of white glass screening.
- Incorporation of weather shelter at the pedestrian entry to the building.
- Increase in storeroom sizes and relocation to the ground floor.
- Minor increase to the driveway width to accommodate on-site waste collection.

Site context

The site is currently occupied by single storey, detached single dwellings on each lot. The site is located in a cul-de-sac, bound by Brechin Court to the west and single dwellings to the north, east and south (Attachment 1 refers). The site is located an approximate walkable distance of 240 metres to the pedestrian bridge of Warwick train station.

The development site and surrounding properties are zoned 'Residential' under the City's *Local Planning Scheme No. 3* (LPS3), with a density coding of R20/R60 and are located within Housing Opportunity Area 1 (HOA). It is noted that newer developments in the street are typically one and two storey grouped dwelling developments which appropriately complement the original housing stock. New development in surrounding streets comprises two storey grouped dwelling and two storey multiple dwelling development typically ranging in scale from two up to ten dwellings.

One of the properties adjoining the subject site's rear boundary, No. 25 Methuen Way, has received development approval for the development of four, two-storey grouped dwellings. At the time of preparing this Responsible Authority Report, the development approval is still valid, however a building permit and demolition licence is yet to be lodged. Whilst there is the intent of this property to develop at the higher coding by virtue of the development approval, as construction has not commenced and the existing dwelling still remains on site at the lower density code, the assessment by the City has been undertaken in the context of the lower density code.

A development application was also previously considered for a three-storey development comprising 13 multiple dwellings at No. 4 and 6 Brechin Court. No. 6 Brechin Court adjoins the subject site's southern boundary. The proposal at No. 4 and No. 6 Brechin Court was refused by Council in May 2019. The application did not proceed any further and, at this point in time it is considered that there is no longer an intent for the property to be developed at the higher coding and therefore the potential impact has been considered in the context of the lower density coding (R20) and based the existing development at No. 6 Brechin Court.

Legislation and Policy:

- State Administrative Tribunal Act 2004.
- Planning and Development Act 2005.
- Metropolitan Region Scheme (MRS).
- Planning and Development (Local Planning Schemes) Regulations 2015 (Regulations).
- City of Joondalup Local Planning Scheme No. 3 (LPS3).

State Government Policies

- State Planning Policy 7.0: Design of the Built Environment (SPP7).
- State Planning Policy 7.3 Residential Design Codes Volume 2 Apartments (SPP7.3).

Local Policies

- Residential Development Local Planning Policy (RDLPP).
- Environmentally Sustainable Design Policy.

Consultation:

Public Consultation

Previous proposal

The previous proposal refused by the Metro North-West JDAP on 23 July 2019 was advertised twice during its assessment as modifications were made to the proposal following the first round of advertising. Both the original and amended proposals were advertised for 14 days across the following dates:

- Original proposal commenced 20 March 2019 and concluded on 3 April 2019.
- Amended proposal commenced 20 June 2019 and concluded on 4 July 2019.

The original consultation resulted in a total of 67 submissions being received, all objecting to the proposal, as well as receipt of a petition containing 63 signatures, also objecting to the proposal.

The consultation on the amended proposal resulted in a total of 66 submissions being received, all objecting to the proposal, as well as receipt of a petition containing 429 signatures, also objecting to the proposal.

Revised proposal

The revised proposal, which is the subject of this report, was advertised for 21 days, commencing on 30 March 2020 and concluding on 20 April 2020. Consultation was undertaken in the following manner:

- letters sent to all adjoining owners and occupiers;
- correspondence sent to all residents who provided a submission during advertising of the previous proposal; and
- development plans and information provided by the applicant were made available for public viewing on the City's website.

A total of 18 submissions were received, all objecting to the development as well as the resubmission of the petition containing 429 signatures objecting to the proposal received during a previous round of consultation.

A summary of the submissions against the specific design elements of SPP7.3 and general comments on the development is provided at Attachment 12. The key concerns raised in the submissions include:

- Size and scale of the development;
- Development has not addressed the previous reasons for refusal;

- Building height;
- Development does not fit the character of the area;
- Overshadowing;
- Building separation and setbacks to adjoining properties;
- Intensification of traffic in a cul-de-sac environment;
- Lack of car parking;
- Visual privacy; and
- Compliance with the City's draft new development standards for development in Housing Opportunity Areas.

Joondalup Design Reference Panel (JDRP)

The proposal the subject of this report was referred to the JDRP on 19 February 2020.

The following table summarises comments made by the JDRP and a summary of the applicant's response.

JDRP comments	Summary of applicant's response
Building design	
The parapets have been taken off the south side to reduce overshadowing, however this will result in an unappealing elevation to the approach to the building along Brechin Court. The solar panels/ roof services and the roof will be visible.	Parapets have remained absent from the southern side of the building to reduce shadowing.
Some windows do not have awnings or sufficient shading devices.	Revised plans include the location of window awnings.
Further detail is required on the translucent panelling over balconies.	Other projects have incorporated similar panelling which has worked.
Screening notations for the balconies on the floor plans relating to apartment 4 and 11 do not match screening provided on elevations.	Revised plans include the screening on both floor plans and elevations.
Revised proposal has air conditioning (AC) units to the car parking area. This is not ideal as it will blow hot air to this area.	No response provided by the applicant.
The roof to the stairs and lift is missing.	No response provided by the applicant.
Stores not all accessed from the corridor.	Access to stores is to reduce the visual impact of the doors on the corridor.
Unit 14 store does not have a door.	Plans have been modified to include a door.
Stores require power for lighting and potential future proofing for charging electric bikes.	The applicant does not dispute the use of bicycle charging and is incorporating this as part of their ongoing apartment design. It is noted however that details on how the development could be future proofed for electric bicycle charging were not included as part of the amended proposal.

JDRP comments	Summary of applicant's response
The bike racks in stores are not ideal as it will reduce the effective useability of this area. There are concerns about the viability of vertical bike racks which may not be practical for the increasing use of E-bikes, which are significantly heavier.	The "Steady Rack" system would be used, which made the storage of E-bikes easier. The "Steady Rack" has been used for 10 years including in major commercial applications.
The internal driveway contains a 'kink' in its alignment, which is not ideal.	No response provided by the applicant.
Disabled persons may find it difficult to visit the building.	A disabled person will park in a visitor bay and can access the site through the rear via the security gate.
The bin store is quite large.	The store will likely hold other building services.
Landscaping	
There is opportunity to innovate the communal open space. The location in the corner and adjacent to carpark is uncomfortable and not inviting to occupants.	Screening separating the communal open space and the car park has been provided. A large tree (substituting the lemon tree) has been provided adjacent to the communal open space.
There is an over-reliance on verge landscaping.	On-site landscaping has been increased with removal of visitor parking from the front setback area.
A ten-seat table in the communal open space may not be ideal as it limits small groups of one or two people using this space.	The ten-seat table has been replaced with bench seating.
An alternative to the Tuckeroo trees should be considered.	Tuckeroo trees have been substituted with an equal number of Evergreen Ash trees.
The landing size can be reduced to increase soft landscaping at the front of the building.	No response provided by the applicant.
Consider taking the footpath adjacent to driveway straight out to kerb to increase crossover width to provide for onsite waste collection.	Onsite waste collection is possible without the crossover increase.
Verge trees will need to be approved by the City. The cluster of vegetation within the verge generally works well.	Verge trees proposed are Eucalypt Rosea (red flowering gums). This species is on the City's 'Preferred tree species list' for residential verges. If not suitable within this location the City could nominate an acceptable substitute species.
Visitor parking within the verge is not ideal as it is not a good outcome.	Visitor parking has been relocated behind the front setback area.
May need to consider a pergola style roof to the communal open space to provide shade to this area.	Arbours have been included over the communal open space, however the species of creeper associated with the arbours has not been specified.

As outlined above, in many instances the applicant has either modified plans or provided additional clarification to address the matters identified by the JDRP. There are however a number of matters identified that have not been addressed to a satisfactory degree and remain outstanding design issues that require further consideration and resolution. These include:

- Air conditioning units within the car parking area have not been relocated.
- The detailing of the roof to the lift and stairs has not been included on the roof plan.
- The kink in the driveway in the south eastern corner of the development has not been modified.
- The size of the hardstand landing at the pedestrian entry to the building was not reduced to provide additional landscaping.

In relation to the above, it is considered that the development plans do not appropriately respond to the advice provided by the JDRP.

Role of JDRP in decision-making

The role of the JDRP is to provide the City with independent, expert design advice to assist with assessment and consideration of a proposal.

Until recently, no statutory weight could be given to the advice and recommendations of the JDRP; however, Scheme Amendment No. 4 was gazetted on 18 February 2020, which introduces the advice of a Design Review Panel as an additional matter for consideration under clause 67 of the deemed provisions of the Regulations.

It is for this reason that the City's recommendation on the original proposal did not include this as a reason for refusal, whereas it is now included in the recommendation for the amended proposal.

Planning Assessment:

The City has completed an assessment of the proposal against the relevant provisions of the Regulations, LPS3, SPP7, SPP7.3, and the City's RDLPP.

A summary of the City's assessment against SPP7.3 (including relevant elements of the RDLPP) is included in Attachment 13.

The key design elements of SPP7.3 and the design elements related to the primary concerns raised during consultation are discussed in more detail below.

Officer Comments

Local Planning Scheme No. 3

Minimum lot frontage requirement

Clause 26 (5) of LPS3 requires multiple dwelling sites to have a minimum site width of 20 metres at the street boundary.

The application proposes development across No. 8 and 10 Brechin Court which have an aggregate site width of 37 metres at the street boundary, and therefore meets this scheme requirement.

Land use

The subject site is zoned 'Residential' under LPS3 with a residential density coding of R20/R60. The land use of 'Multiple Dwelling' is a discretionary or 'D' land use in the Residential zone.

The discretionary land use permissibility for multiple dwellings applies to every lot in the entire Residential zone, across all suburbs of the City. Multiple dwellings are not appropriate to be built on every residential lot in the City and that is why the land use permissibility in the City's scheme requires the exercise of discretion in deciding which lots are appropriate for multiple dwelling development and which are not. The City, as part of Amendment No. 73 to the City's previous scheme, District Planning Scheme No. 2, recoded certain properties, including the subject site, to allow for the provision of higher density development in certain areas. It was through this action that the City exercised its discretion and decided that multiple dwellings were considered acceptable on certain lots by virtue of the higher density code allocated to them.

One of the objectives of the Residential zone is to provide for a range of housing and a choice of residential densities to meet the needs of the community, which the proposed development, and the Housing Opportunity Areas more broadly, does in a Local Government area that is characterised primarily by detached, single houses.

State Planning Policy 7.3 (Residential Design Codes Volume 2 – Apartments)

Side and rear setbacks

Element 2.4 Side and rear setbacks objectives state:

O2.4.1 Building boundary setbacks provide for adequate separation between neighbouring properties.

O2.4.2 Building boundary setbacks are consistent with the existing streetscape pattern or the desired streetscape character.

O2.4.3 The setback of development from side and rear boundaries enables retention of existing trees and provision of deep soil areas that reinforce the landscape character of the area, support tree canopy and assist with stormwater management.

O2.4.4 The setback of development from side and rear boundaries provides a transition between sites with different land uses or intensity of development.

The acceptable outcomes suggest:

• The development should comply with the side and rear setbacks set out in Table 2.1, except where modified by the local planning framework and/or a greater setback is required to address element 3.5 Visual Privacy (A2.4.1); and

• Development be set back to achieve element 2.7 Building Separation, 3.3 Tree Canopy, 3.5 Visual Privacy and 4.1 Solar and daylight access objectives (A2.4.2).

The development does not meet the suggested acceptable outcome for side and rear setbacks set out in Table 2.1, being a 3 metre minimum setback and a 3.5 metre average setback. This is due to the proposed arbours on the southern side of the building extending to the boundary of the site. Although noted as 'arbours' the structures are actually support beams and columns needed to support the upper floors of the development and as such are considered to fall under the definition of 'building' for the purpose of calculating setbacks. It is however noted that the three support structures are between 0.4 and 0.6 metres wide and though located on the boundary will not have a significant impact on the adjoining property.

In comparing the development plans against those previously refused by the JDAP the upper floor setbacks of the development remain largely unchanged with exception of:

- An increase to the lot boundary setbacks to the four rear facing units by an additional two metres;
- Increased balcony setbacks to the north western side lot boundary from six metres to 7.1 metres; and
- An increase to the lot boundary setbacks from Units 9 and 16 to the southern boundary by an additional 1.37 metres.

The setbacks of the building provide for appropriate landscaping treatments across the site, including large, medium and a mix of small trees as discussed further below.

However, the setbacks of the development is the same for the second and third floors meaning the development presents as a unbroken vertical mass, rather than one that increases setbacks at upper levels to provide a more suitable transition to surrounding sites developed at lower density.

The JDAP's original decision to refuse the proposal included side and rear setbacks as one of the elements not adequately satisfied. Changes have been made to increase setbacks, which is favourable in that it allows for more meaningful landscaping to be introduced in some instances and addresses part of the reason for refusal of the original proposal.

Setbacks have also been increased to the southern elevation of the development to reduce the extent of overshadowing on the adjoining property. However the increased setbacks are not substantial in the context of the overall development and how the development transitions between neighbouring sites developed at a lower density. It is therefore considered that the modified proposal does not meet the element objectives in this regard.

Plot ratio

Element 2.5 Plot ratio objective states:

O2.5.1 The overall bulk and scale of development is appropriate for the existing or planned character of the area.

The acceptable outcome suggests a plot ratio of 0.8 $(1,139m^2)$ for an R60 coded site, whereas a plot ratio of 0.925 $(1,317.7m^2)$ is proposed.

In comparison to the plans previously refused (Attachment 11 refers) the plot ratio area has been reduced by 15.1m²; however, the number of apartments has not been reduced. The modified proposal has 178.7m² plot ratio area in excess of the plot ratio suggested by the acceptable outcome. Using the average apartment size of the development as a guide, this equates to approximately two apartments more than the suggested plot ratio.

Planning guidance provided in SPP7.3 Volume 2 suggests testing the proposed built form against the plot ratio to ensure it is coordinated with the building envelope, height, depth, setbacks and other site requirements.

Whilst the building height of three storeys is permitted within an R60 coded zone, the additional floor area proposed results in the third storey of the proposal occupying the development's entire building footprint. The result of this is that the development does not satisfy the Element objectives of 2.4 Side setbacks, 2.7 Building separation and 3.2 Orientation, which indicates that the proposal does not fit comfortably within the building envelope, the massing of the building is not suitable and the proposal represents overdevelopment of the site.

To meet the element objective for plot ratio, the overall bulk and scale of the development needs to be appropriate for the existing or planned character for the area.

In considering the proposal in the context of the existing character of the area, it is clear it represents development at a bulk and scale much greater than the character established by the original housing stock. However, the area is identified and zoned as being suitable for redevelopment at higher densities than the original housing stock. It is therefore acknowledged that the planned character of the area is one that is characterised by development at a greater bulk and scale.

This transition to the planned character of the area is reflected in redevelopment of a number of properties with grouped and multiple dwellings, predominantly as twostorey development with plot ratios generally ranging between 0.67 to 0.74.

There is also one three-storey development currently under construction in a nearby street. This development is for seven multiple dwellings and has a plot ratio of 0.77. The third level of this development is set back and away from the street and adjoining properties which moderates its bulk and scale to provide a more sympathetic response, more aligned with the planned character of the area.

In contrast, the proposed development incorporates a plot ratio of 0.948 which is significantly greater than any other development for the area. The development is also designed in such a way that the floor plates are replicated on the second and third floors, meaning no visual relief is provided at upper floors - accentuating the bulk and scale of the development to a point where it is not appropriate for the planned character of the area.

The JDAP's original decision to refuse the proposal included plot ratio as one of the elements not adequately satisfied. Whilst the impact on adjoining residents has been moderated to some degree by increasing some building setbacks and reducing the

extent of overshadowing, as outlined above, the bulk and scale of the development remains inappropriate for both the existing and planned character of the area.

As such, it is considered that the element objective has not been achieved.

Building depth

Element 2.6 Building depth objective states:

O2.6.1 Building depth supports apartment layouts that optimise daylight and solar access and natural ventilation.

O2.6.2 Articulation of building form to allow adequate access to daylight and natural ventilation where greater building depths are proposed.

O2.6.3 Room depths and/or ceiling heights optimise daylight and solar access and natural ventilation.

The acceptable outcomes suggest that developments which comprise single aspect apartments on each side of a central circulation corridor, should have a maximum building depth of 20 metres. The proposed building depth is a maximum of 24 metres where single aspect apartments are proposed.

The JDAP's original decision to refuse the proposal included building depth as one of the elements not adequately satisfied as apartment layouts and room depths did not optimise daylight and solar access and the built form was not appropriately articulated to allow sufficient access to daylight.

Proposed modifications now result in the majority of the apartments within the development being naturally cross ventilated in accordance with the requirements of element *4.2 Natural ventilation*.

Proposed modifications to the apartment layouts have also resulted in the position of the foyer, lift and stairs switching, with Units 2, 8 and 9 being relocated further north within the building façade. This change has also resulted in the balconies of all west facing units being completely open on their northern side, which maximises the amount of direct sunlight afforded to adjoining living spaces. In relation to Units 15 and 16, the depth of the living area layouts have been shortened in accordance with the requirements of element *4.3 Size and layout of dwellings*. This has allowed for penetration of natural daylight into the living areas of those apartments and addresses the concerns previously raised in relation to adequate access to direct sunlight.

The changes to the plan result in a better outcome in this regard and for the reasons stated above, it is considered that the element objectives have been achieved.

Building separation

Element 2.7 Building separation objective states:

O2.7.1 New development supports the desired future streetscape character with spaces between buildings.

O2.7.2 Building separation is in proportion to building height.

O2.7.3 Buildings are separated sufficiently to provide for residential amenity including visual and acoustic privacy, natural ventilation, sunlight and daylight access and outlook.

O2.7.4 Suitable areas are provided for communal and private open space, deep soil areas and landscaping between buildings.

The JDAP's original decision to refuse the proposal included building setbacks as one of the elements not adequately satisfied due to the apartments not having sufficient access to sunlight and amenity impacts on neighbouring properties resulting from overlooking.

The acceptable outcomes suggest that building separation between development and adjoining properties is to reflect the acceptable outcomes of *elements 2.4 Side and rear setbacks* and *3.5 Visual privacy*.

The development generally aligns with the acceptable outcomes of element 2.4 side and rear setbacks. However, in considering the proposal against the element objectives, the three-storey development is designed so that the second and third levels are setback the same distance from the lot boundaries. In the context of the adjoining properties being developed at the lower R20 density, the development does not provide adequate transition between development of different densities. This is reflected in the development also not meeting the objectives of element 2.4 Side and rear setbacks in relation to visual massing, and element 3.2 Orientation in relation to overshadowing. The building separation is therefore not considered to be in proportion to building height as the development impacts the visual amenity and availability of daylight access of adjoining properties.

In relation to overlooking, the development does not meet the acceptable outcome setback distances of element *3.5 Visual privacy*; however, changes have been made such that cones of vision from the upper floor balconies no longer extend to major openings or fall over outdoor living areas. It is therefore considered that this part of the JDAP's reason for refusal under this element has been addressed.

Accordingly, whilst a number of the issues relating to building separation has been addressed through modifications to the design and an improved outcome is provided, it is considered that the element objectives are still not met.

Orientation

Element 3.2 Orientation objectives state:

O3.2.1 Building layouts respond to the streetscape, topography and site attributes while optimising solar and daylight access within the development.

O3.2.2 Building form and orientation minimises overshadowing of the habitable rooms, open space and solar collectors of neighbouring properties during midwinter.

The acceptable outcomes suggest:

- the building be oriented to the street and incorporate direct access from the street;
- that shadow cast at midday on 21st June not exceed 25% of the adjoining property; and
- the building be oriented to protect existing solar panels on neighbouring properties.

Eight of the apartments are oriented to Brechin Court, four of the apartments face north west towards the communal open space and four apartments are oriented east, facing the car park. The proposed development overshadows 29% of the adjoining property to the south, noting the adjoining property is dual coded R20/60 and is currently developed at the R20 coding.

The applicant has provided an overshadowing diagram (Attachment 5 refers).

The JDAP's original decision to refuse the proposal included orientation as one of the elements not adequately satisfied as the development did not minimise overshadowing of the open space of the adjoining property.

In comparing the modified proposal with that refused by the JDAP, changes have been incorporated to reduce the amount of overshadowing by increasing the setback of the upper floor on the southern side of the site and removing parapet walls associated with the second floor on the southern elevation. The overall extent of overshadowing of the adjoining lot is reduced from 40.1% to 29.56%.

Whilst this is a significant reduction in the extent of overshadowing and therefore an improved outcome, the proposal still results in shadow being cast over the adjoining outdoor living area.

The extent of overshadowing proposed is symptomatic of the proposal representing an overdevelopment of the site, which is also reflected in the development not achieving the element objectives of *element 2.4 Side and rear setbacks, element 2.5 plot ratio,* and *element 2.7 Building separation.* Scaling back the development would result in less overshadowing of the adjoining property.

For the reasons stated above the extent of overshadowing has not been minimised and it is therefore considered that the element objectives have not been achieved.

Tree Canopy and deep soil areas and landscape design

Element 3.3 Tree canopy and deep soil areas objectives state:

O 3.3.1 Site planning maximises retention of existing healthy and appropriate and protects the viability of adjoining trees.

O 3.3.2 Adequate measures are taken to improve tree canopy (long term) or to offset reduction of tree canopy from pre-development condition.

O 3.3.3 Development includes deep soil areas, or other infrastructure to support planting on structures, with sufficient area and volume to sustain healthy plant and tree growth.

Element 4.12 Landscape design objectives state:

O4.12.1 Landscape design enhances streetscape and pedestrian amenity; improves the visual appeal and comfort of open space areas; and provides an attractive outlook for habitable rooms.

O4.12.2 Plant selection is appropriate to the orientation, exposure and site conditions and is suitable for the adjoining uses.

O4.12.3 Landscape design includes water efficient irrigation systems and, where appropriate, incorporates water harvesting or water re-use technologies.

4.12.4 Landscape design is integrated with the design intent of the architecture including its built form, materiality, key functional areas and sustainability strategies.

The acceptable outcomes suggest 10% of the site as deep soil area is appropriate, with either one large tree and one medium tree, or 1 large tree and small trees to suit the area. The proposed development provides 11.24% of the site as deep soil area, with one large tree, three medium trees as well as small trees proposed within these areas.

The deep soil areas are located on the southern and northern boundaries, as well as in front of the visitor parking area within the street setback area. Landscaping is proposed to be integrated with the communal open space, including provision of the large tree in the north eastern corner of the site. However, details of plant species growing over the arbours within the communal open space have not been specified.

Notwithstanding this, the species proposed are considered appropriate for the location and will provide an attractive outlook from habitable rooms of the dwellings, whilst also enhancing the streetscape.

In addition to the landscaping on site, verge landscaping will also incorporate planting of additional trees as per the landscape plan (Attachment 6 refers).

Considering the above, the overall landscape design for the site, which includes large, medium and small trees, is acceptable and the species selected are considered to support long term canopy coverage within the site. However, a suitable species to grow over the arbours and provide shade to the communal open space would need to be detailed. This could be managed through a condition, if the development were to be approved.

The JDAP's reasons for refusal of the original proposal included tree canopy, deep soil areas and landscape design as elements not adequately satisfied. However, as outlined above, the modified proposal now achieves the element objectives pertaining to tree canopy, deep soil areas and landscape design.

Communal open space

Element 3.4 Communal open space objectives state:

O3.4.1 Provision of quality communal open space that enhances resident amenity and provides opportunities for landscaping, tree retention and deep soil areas.

O3.4.2 Communal open space is safe, universally accessible and provides a high level of amenity for residents.

O3.4.3 Communal open space is designed and oriented to minimise impacts on the habitable rooms and private open space within the site and of neighbouring properties.

The acceptable outcomes suggest communal open space should:

- have an area of $96m^2$ with a maximum hardscape area of $48m^2$;
- have an open space dimension of 4 metres;
- be accessible;
- have a minimum of 50% of the area with access to direct sunlight;
- be co-located with deep soil areas and/or planting structures and/or indoor communal spaces;
- be provided with separation or screening between private open spaces to reduce amenity impacts; and
- be well-lit and designed and oriented to minimise amenity impacts.

The location of the communal open space is adjacent to the car parking area. The previous proposal generally met the suggested acceptable outcomes; however, as there was no separation or screening provided between the car park and common area the communal open space did not meet the element objectives in relation to provision of a high level of amenity for residents. This consequently formed one of the reasons for JDAP's refusal.

The amended proposal includes 1.65 metre high slatted screening between the communal open space and the car parking area which appropriately balances the need to provide both visual separation and surveillance between these two spaces.

Additionally, the amended proposal substitutes a small tree with a large tree in the north eastern corner of the site next to the communal open space. The amended proposal now also includes arbours over the communal open space. The addition of both features provides a better outcome and greater resident amenity.

The revised proposal is considered to have adequately addressed the previous reasons for refusal in relation to *Element 3.4 Communal open space* and for the reasons above is considered to meet the element objectives.

Visual privacy and Private open space and balconies

Element 3.5 Visual Privacy objective states:

O3.5.1 The orientation and design of buildings, windows and balconies minimises direct overlooking of habitable rooms and private outdoor living areas within the site and of neighbouring properties, while maintaining daylight and solar access, ventilation and the external outlook of habitable rooms.

The acceptable outcomes suggest:

- Major openings (windows) be set back from adjoining properties a distance of 4.5 metres to bedrooms, studies and open walkways;
- Six metres to habitable rooms other than bedrooms and studies;

- 7.5 metres to unenclosed private open space areas such as balconies; and,
- Balconies are to be unscreened for at least 25% of their perimeter (including edges abutting a building).

Element 4.4 Private open space and balconies objectives state:

O4.4.1 Dwellings have good access to appropriately sized private open space that enhances residential amenity.

O4.4.2 Private open space is sited, oriented and designed to enhance liveability for residents.

O4.4.3 Private open space and balconies are integrated into the overall architectural form and detail of the building.

The acceptable outcomes suggest that where privacy screening is provided to a private open space, screening is to be designed so that it does not obscure the outlook from adjacent living rooms.

The JDAP's reasons behind the original decision to refuse the proposal included visual privacy as one of the elements not adequately satisfied.

The modified plans have resulted in the reorientation of apartments at the upper levels to address visual privacy including:

- Balcony setbacks to the rear boundary have increased from 5.45 metres to 7.5 metres; and
- Balconies to the north-western side boundary include additional privacy screening which reduces the amount of unscreened area to less than 25%.

The development includes four balconies on its north-western elevation which are set back a minimum of 7.1 metres from the adjoining property. The plans incorrectly identify the area of the adjoining property that is overlooked as a driveway. An assessment of the floor plans of the adjoining property indicate that the balconies will face onto a blank bedroom wall, bathroom, toilet, laundry, dwelling entry and dining room.

In considering the proposal against the element objectives, the adjoining property incorporates a pergola structure which would prevent direct overlooking into major openings along the southern facade, while the main outdoor living area is located on the opposite side of the site, ensuring adequate privacy between the properties.

Whilst the reconfiguration of these balconies has generally resulted in an increase in visual privacy setbacks to the north-western boundary, the introduction of screening to the perimeter of the balconies in an attempt to further mitigate overlooking has resulted in unscreened portions of balconies being less than the 25% suggested by the acceptable outcomes of element 3.5 Visual privacy as below:

- Units 3 and 10 balconies unscreened for 14.1% of their perimeter; and,
- Units 4 and 11 balconies unscreened for 17.9% of their perimeter.

The design guidance stipulates that privacy screens should not be used to justify reduction in the visual privacy setbacks for the primary outlook from interior spaces.

Additionally the acceptable outcomes of element 4.4 *Private open space and balconies* suggest that privacy screening to balconies should not obscure the outlook from adjacent living rooms. In this instance the introduction of screening devices restricts the external outlook from the balconies and adjoining living areas which, in turn, compromises the residential amenity of those apartments.

As outlined above, direct overlooking into sensitive areas of the adjoining property is already minimised through the presence of an existing pergola and by virtue of the adjoining property's layout. It may therefore be possible to reduce the extent of screening along these balconies in some areas if it can be demonstrated that this does not result in an inappropriate loss of privacy for the adjoining property.

However, as currently proposed, for the reasons stated above, it is considered that the element objectives have not been achieved.

Car and bicycle parking

Element 3.9 Car and bicycle parking objectives state:

O3.9.1 Parking and facilities are provided for cyclists and other modes of transport

O3.9.2 Car parking provision is appropriate to the location, with reduced provision possible in areas that are highly walkable and/or have good public transport or cycle networks and/or are close to employment centres.

O3.9.3 Car parking is designed to be safe and accessible.

O3.9.4 The design and location of car parking minimises negative visual and environmental impacts on amenity and the streetscape.

The acceptable outcomes suggest the provision of 16 resident bays, four visitor bays and 10 bicycle bays for the development. The application proposes 21 resident bays, four visitor bays and 21 bicycle bays.

The number of bays provided for the dwellings and visitors is considered appropriate given the proximity of the site to Warwick train station and high frequency bus routes on Beach Road. During community consultation, concerns were raised that the number of bays did not meet the needs of the proposed residents and that two or more vehicles would be needed for each dwelling. The suggested acceptable outcomes are appropriate given the proximity of the site to public transport. It is also noted that the development provides five resident bays more than the acceptable outcome and has balanced the provision of parking with the JDRP's recommendation to minimise the overprovision of parking as it would be detrimental to the provision of on-site landscaping.

Visitor parking has been relocated behind the front setback area with an on-site garden bed providing screening of the visitor parking from the street.

Given the above, the proposed development is considered to achieve the element objectives pertaining to car and bicycle parking.

4.3 Size and layout of dwellings

Element 4.3 Size and layout of dwellings objectives state:

O4.3.1 The internal size and layout of dwellings is functional with the ability to flexibly accommodate furniture settings and personal goods, appropriate to the expected household size.

O4.3.2 Ceiling heights and room dimensions provide for well-proportioned spaces that facilitate good natural ventilation and daylight access.

The acceptable outcomes suggest:

- dwellings have minimum floor areas in accordance with Table 4.3a;
- habitable rooms have minimum floor areas and dimensions in accordance with Table 4.3b;
- minimum floor to ceiling heights of 2.7m to habitable rooms and 2.4m to nonhabitable rooms; and
- open plan living areas have a maximum length of 8.229m without a kitchen or 9m with a kitchen.

The JDAP's reasons for refusal of the original proposal included the size and layout of dwellings as one of the elements not adequately satisfied as the room designs did not facilitate good daylight access.

The modified proposal generally meets the suggested acceptable outcomes with exception of the living area dimensions of two apartments (Units 3 and 10). Both living areas have a minimum dimension of 3.7 metres, whereas a dimension of four metres is suggested by the acceptable outcome.

In considering the acceptability of the development against the element objectives, all living areas associated with the apartments are integrated with and adjoin balconies maximising the outlook from living spaces and providing access to natural light and ventilation. All apartments within the development are open plan and include rectangular living spaces and bedrooms, therefore facilitating layouts that can be furnished and can accommodate functional furniture layouts as demonstrated by the indicative layouts shown on the development plans. With particular reference to Units 3 and 10, the living areas are integrated with both the kitchen and balconies, with furniture layouts demonstrating the usability of the spaces as living areas.

Modifications have been made to reduce the length of the living and kitchen spaces of Units 9 and 16 to be in accordance with the acceptable outcomes.

For the reasons stated above, it is considered that the element objectives have been achieved.

Waste management

Element 4.17 Waste management objectives state:

O4.17.1 Waste storage facilities minimise negative impacts on the streetscape, building entries and the amenity of residents.

O4.17.2 Waste to landfill is minimised by providing safe and convenient bins and information for the separation and recycling of waste.

The suggested acceptable outcomes outline that waste storage facilities are to be provided in accordance with the *WALGA Multiple Dwelling Waste Management Plan Guidelines* and are to be screened from view from the street and private dwellings.

The plans include an enclosed waste storage area on the southern side of the development, located to the rear of the visitor parking area, adjacent to the vehicle access driveway. The bins are located within an enclosed bin store which is integrated into the design of the building with a face brick finish facing the street.

The Waste Management Plan prepared by the applicant (Attachment 8) proposes a shared bin system which can be accessed for on-site collection. A clearance of 3.5 metres is required for on-site collection by City vehicles. The development plans indicate, due to the slope in the driveway, a clearance of between 3.4 and 3.9 metres to the underside of the arbours extending over the driveway. The applicant has confirmed that the building is capable of being modified to ensure that a height clearance of 3.5 metres is provided beneath the arbours.

In addressing the element objectives, the proposal has included a waste storage and collection area that is located and designed such that there is no negative impact on the streetscape or neighbouring properties. Subject to some minor modifications to the Waste Management Plan, the City has reviewed and is supportive of the proposed method of waste collection.

For the reasons stated above, it is considered that the element objectives have been achieved.

<u>Traffic</u>

During consultation a number of concerns were raised in relation to the scale of the development, the amount of additional traffic that would be generated and the impact this would have on the road network.

An appropriate level of traffic analysis has been undertaken and confirms that the surrounding roads and intersections can accommodate the additional traffic that will be generated by the development, if it is to be approved.

In determining the level of assessment required to be undertaken to consider the potential traffic impacts of individual development applications, the City is guided by the Traffic Impact Assessment (TIA) Guidelines prepared by the Department of Planning, Lands and Heritage. In determining the level of assessment required for residential land uses, the TIA Guidelines separates the level of impact of development into 'Low', 'Moderate' and 'High'.

Based on the guidelines, the proposed development falls within the moderate impact which requires a Traffic Impact Statement to be prepared. A Traffic Impact Statement (Attachment 9) has been prepared as part of the original proposal which indicated a total of 105 trips per day generated by the development. The Traffic Impact Statement determines that the peak generation of 13 vehicles per hour is acceptable with the surrounding roads and intersections able to accommodate the increase in traffic from the proposed development.

Draft new development standards for Housing Opportunity Areas

A number of submissions received during consultation believe that the draft new development standards for Housing Opportunity Areas (HOAs) should form the basis for assessment and decision-making on the proposal.

The draft new development standards are contained in both the draft *Development in Housing Opportunity Areas Local Planning Policy* and associated draft Scheme Amendment No. 5 and collectively form a new planning framework to guide development in the City's HOAs.

At its meeting on 20 August 2019 (CJ099-08/19 refers), Council endorsed the draft new development standards for the purposes of public consultation. Consultation commenced on 28 November 2019 and concluded on 16 January 2020.

At a Special Council Meeting on 24 March 2019, Council considered the submissions received and resolved to proceed with the scheme amendment and local planning policy, subject to modifications, and forward the documents to the Western Australian Planning Commission (WAPC) for consideration. The WAPC may grant approval to the local planning policy, with or without modifications or elect not to grant approval. The WAPC will make a recommendation on the scheme amendment, which is required to be approved by the Minister.

Draft scheme amendments and policies can be given weight even though they are not operative, once they become 'seriously entertained'. In Western Australia, this usually occurs after advertising is completed.

However, the weight that can be placed on a seriously entertained planning proposal differs and, generally the further towards approval a planning proposal is (that is how certain and how imminent), the more seriously entertained it is considered to be, and the more weight it can be given in decision-making.

The City has previously sought advice in relation to HOAs and changes to the planning framework that require some level of State Government approval (as is the case in this instance). In this context, the advice concludes that only after approval has been provided by the decision-maker (that is the WAPC or the Minister), therefore providing a high degree of certainty and imminence, should any changes be given substantial weight in decision-making.

Therefore, it is the City's view that the current application is required to be assessed wholly on the current planning framework and its recommendation has been formed on this basis.

Options/Alternatives:

Not applicable.

Council Recommendation:

Not applicable.

Conclusion:

The proposal has been assessed against the element objectives of SPP7.3. Having regard to the element objectives it is considered that whilst there have been improvements made since JDAP's original consideration, the proposal still represents

an overdevelopment of the site. This has detrimental impacts on the adjoining properties and the character of the area, specifically relating to side and rear setbacks, plot ratio, building separation and visual privacy. These elements, as discussed in detail above, result in a massing of the development as viewed from the neighbouring properties and street that is not considered an appropriate transition or provide for a high level of amenity.

The application is therefore recommended for refusal for the reasons set out in the recommendation.

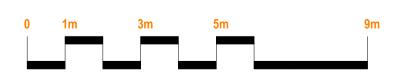
ATTACHMENT 1 - LOCATION PLAN





ENTRY - SKETCH

RESIDENTIAL PARKING: VISITOR PARKING:	22 BAYS ON SITE 4 BAYS ON SITE
TOTAL APARTMENTS:	16 APARTMENTS
SITE AREA: APARTMENT AREA:	1423.9 SQM 1279 SQM
PLOT RATIO:	0.90 13% INCREASE
OPEN SPACE :	637 SQM (45%)
DEEP SOIL LANDSCAPING :	234 SQM (16%)



1:100 @ A1 1:200 @ A3

ATTACHMENT 2 - DEVELOPMENT PLANS

8-10 BRECHIN COURT, DUNCRAIG

DWG No	
A.000	COVER
A.101	FEATURE SURVEY
A.102	SITE PLAN
A 001	
A.201	GROUND FLOOR PLAN GF STORES
A.201A A.201B	ARBOUR SECTION
A.2018 A.202	FIRST FLOOR PLAN
A.202 A.202B	BALCONY CALLOUT
A.202B	SECOND FLOOR PLAN
A.203	ROOF PLAN
A.205	SHADOW PLAN
A.206	LIVABLE HOUSING
A.301	SUN/VENTILATION DIA
A.301A	SUN/VENTILATION DIA
A.301B	SUN/VENTILATION DIA
A.302	SUN/VENTILATION DIA
A.302A	SUN/VENTILATION DIA
A.302B	SUN/VENTILATION DIA
A.303	SUN/VENTILATION DIA
A.303A	SUN/VENTILATION DIA
A.303B	SUN/VENTILATION DIA
A.401	ELEVATION
A.402	ELEVATION
A.403	ELEVATION
A.404	ELEVATION
A.405	EXTERNAL FINISHES
A.406	PERSPECTIVES
A.407	RENDER

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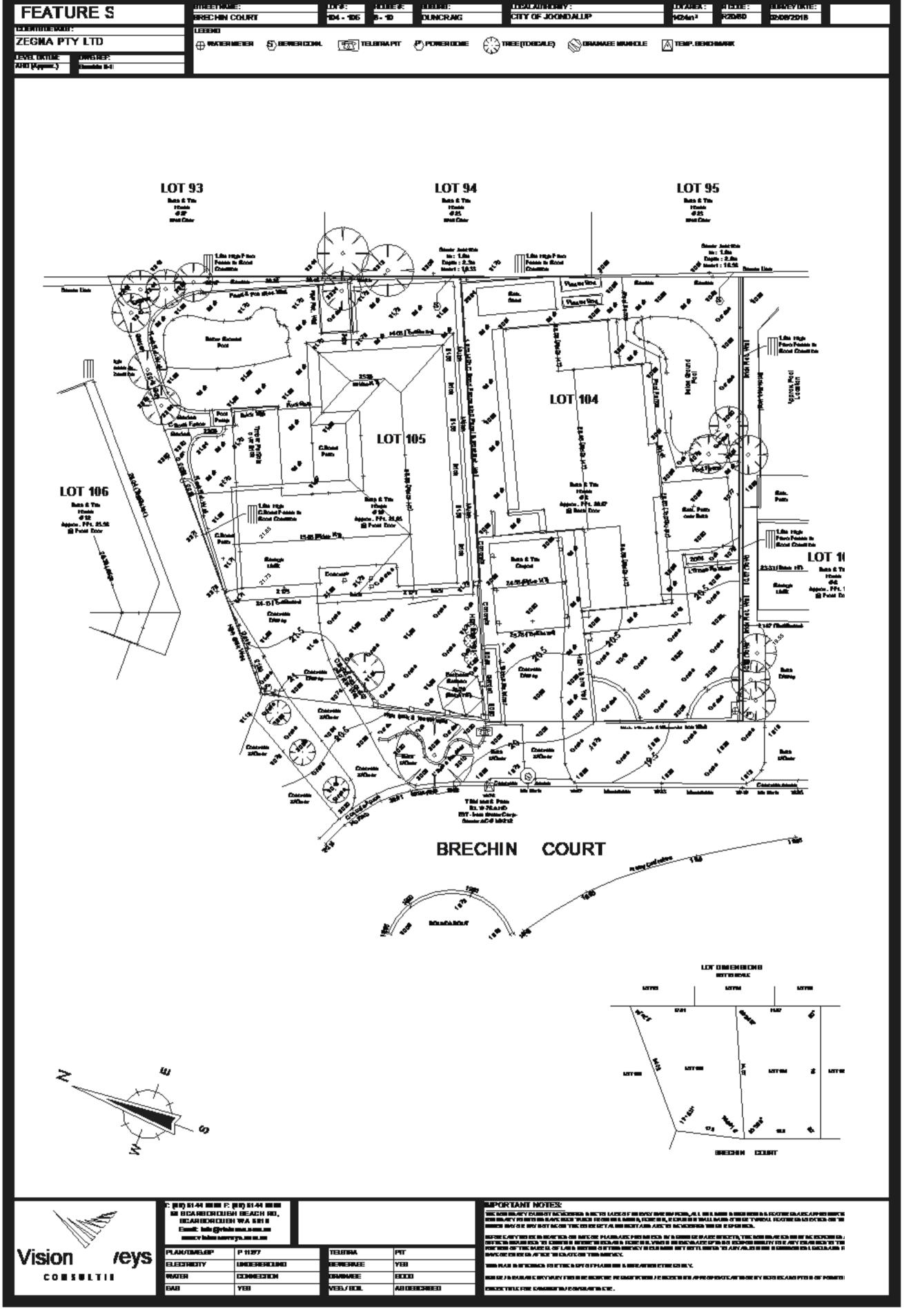


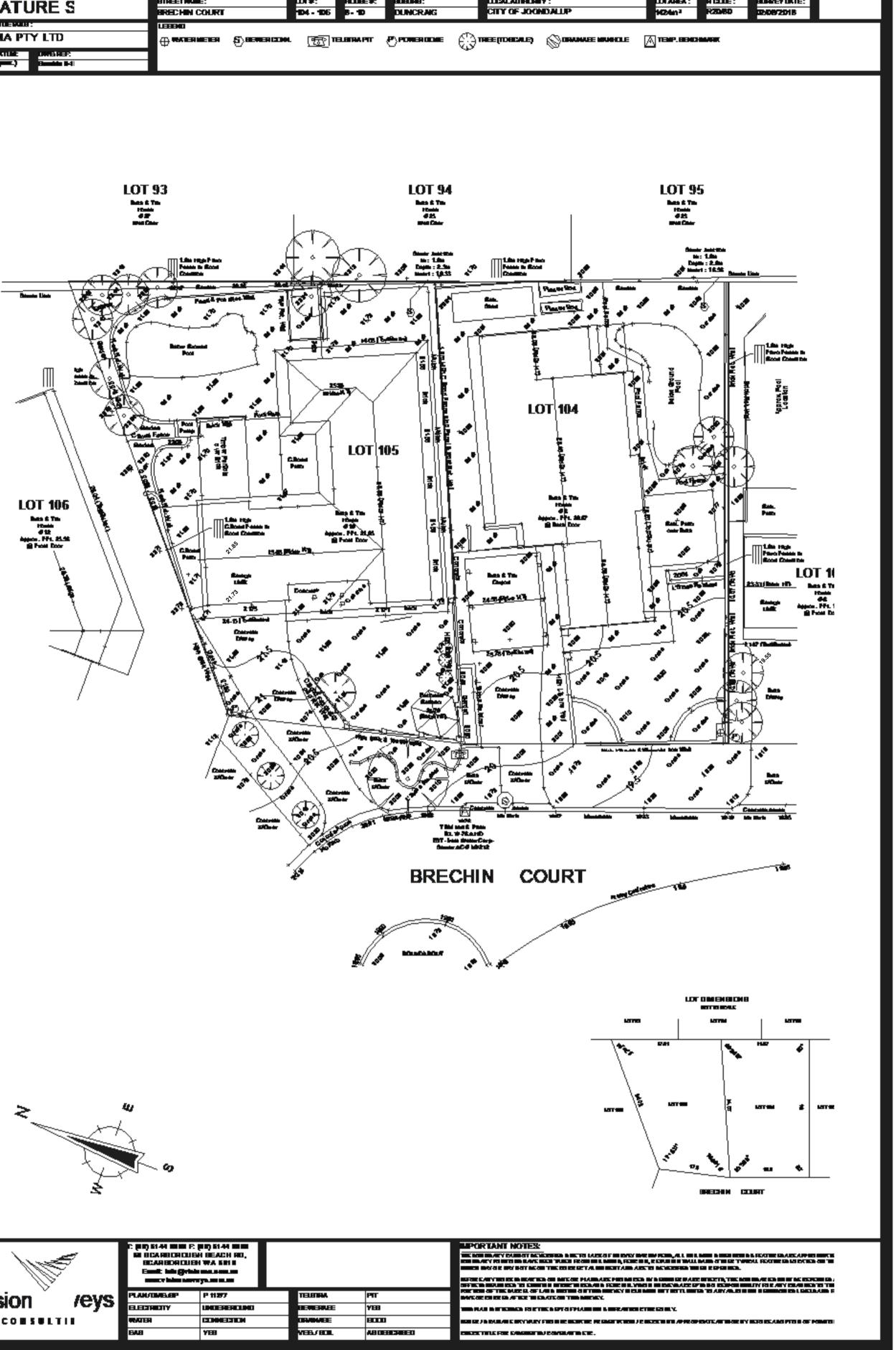
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FEATURE SURVEY 1 : 200

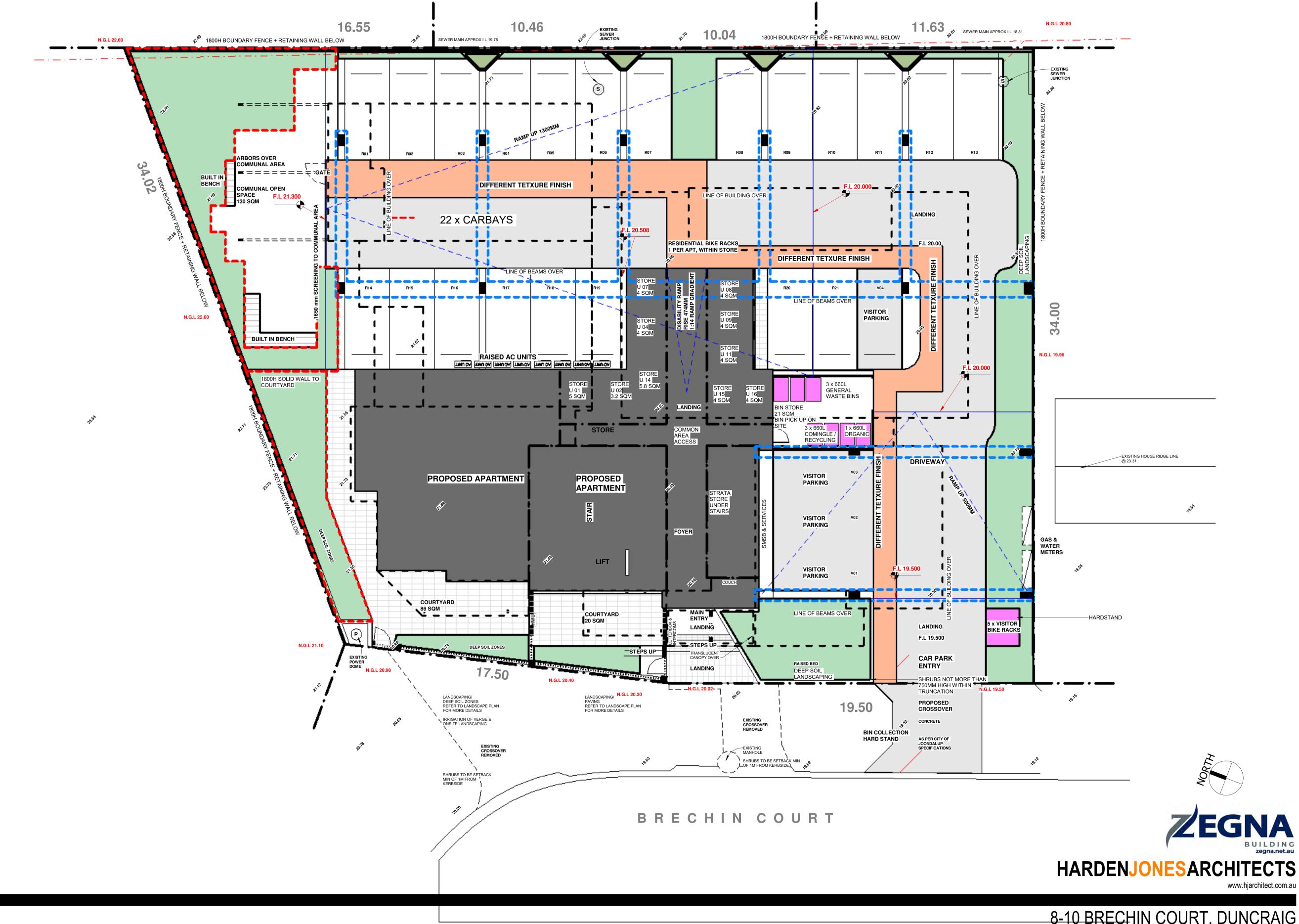




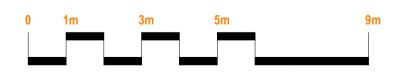
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SITE PLAN -1:100



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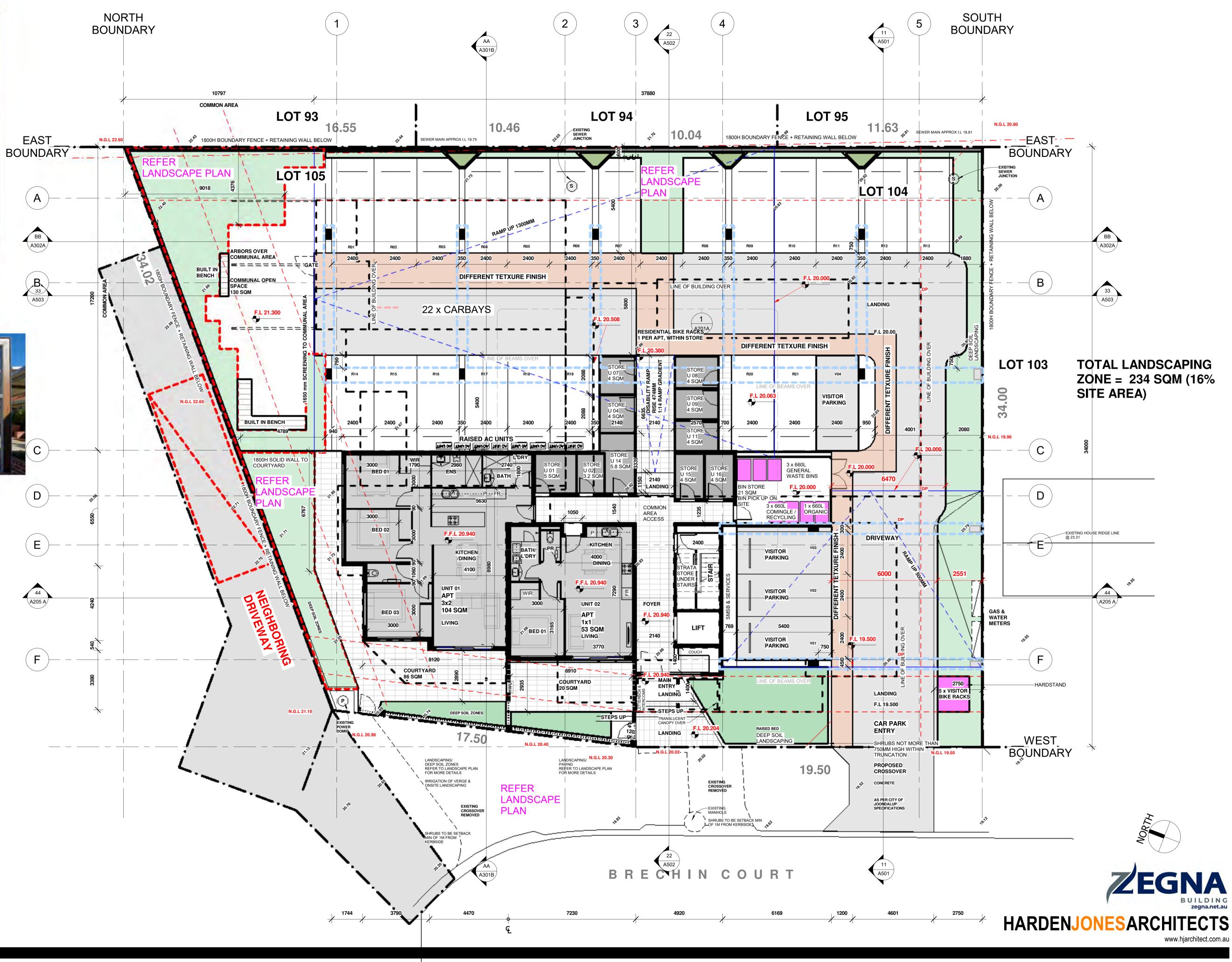
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1 x STEADYRACK IN ALL STORES

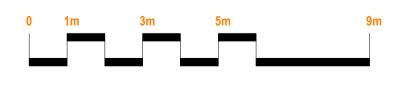


COMMON AREA - ARBORS OVER SEATED AREA



1. GROUND FLOOR

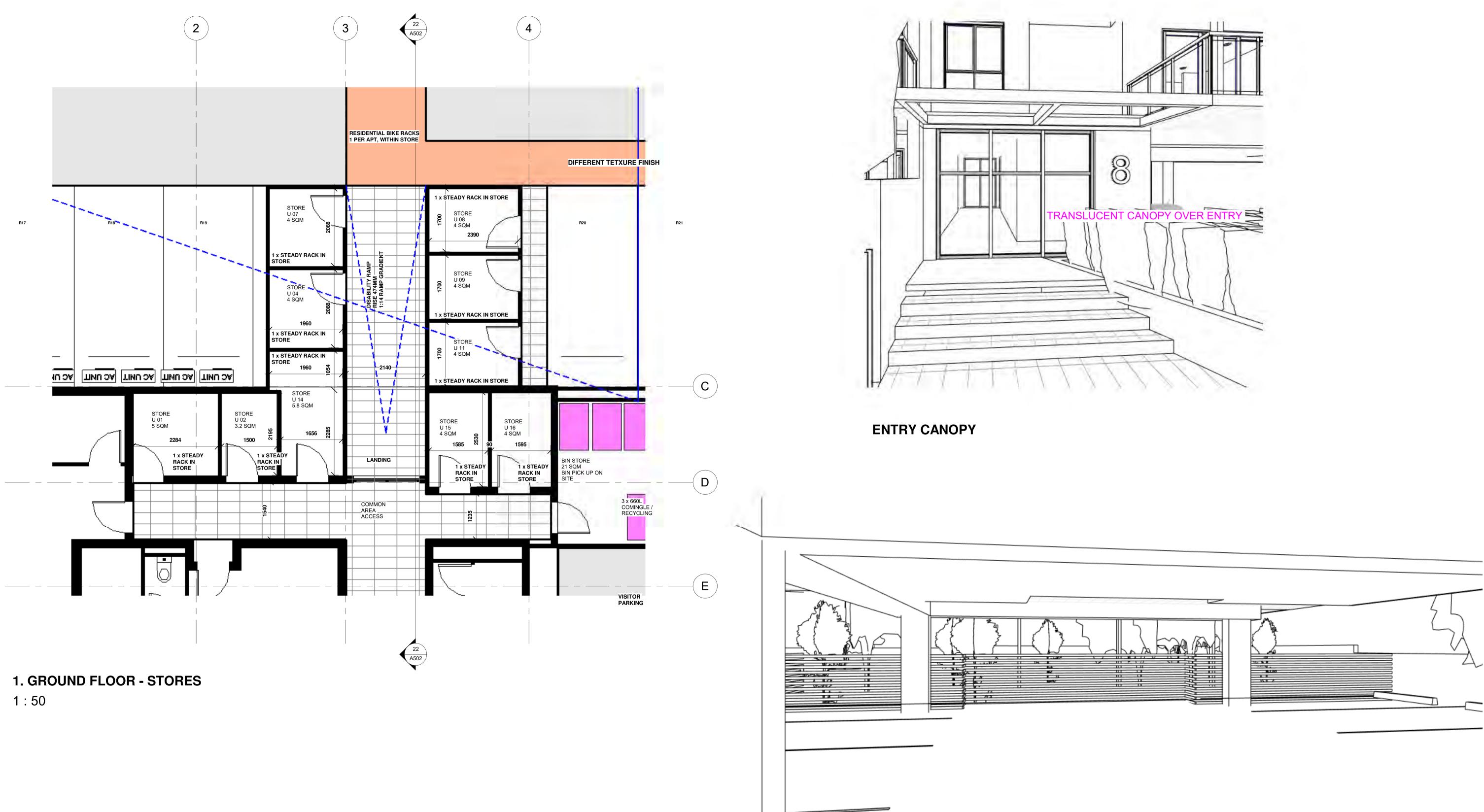
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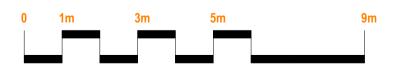


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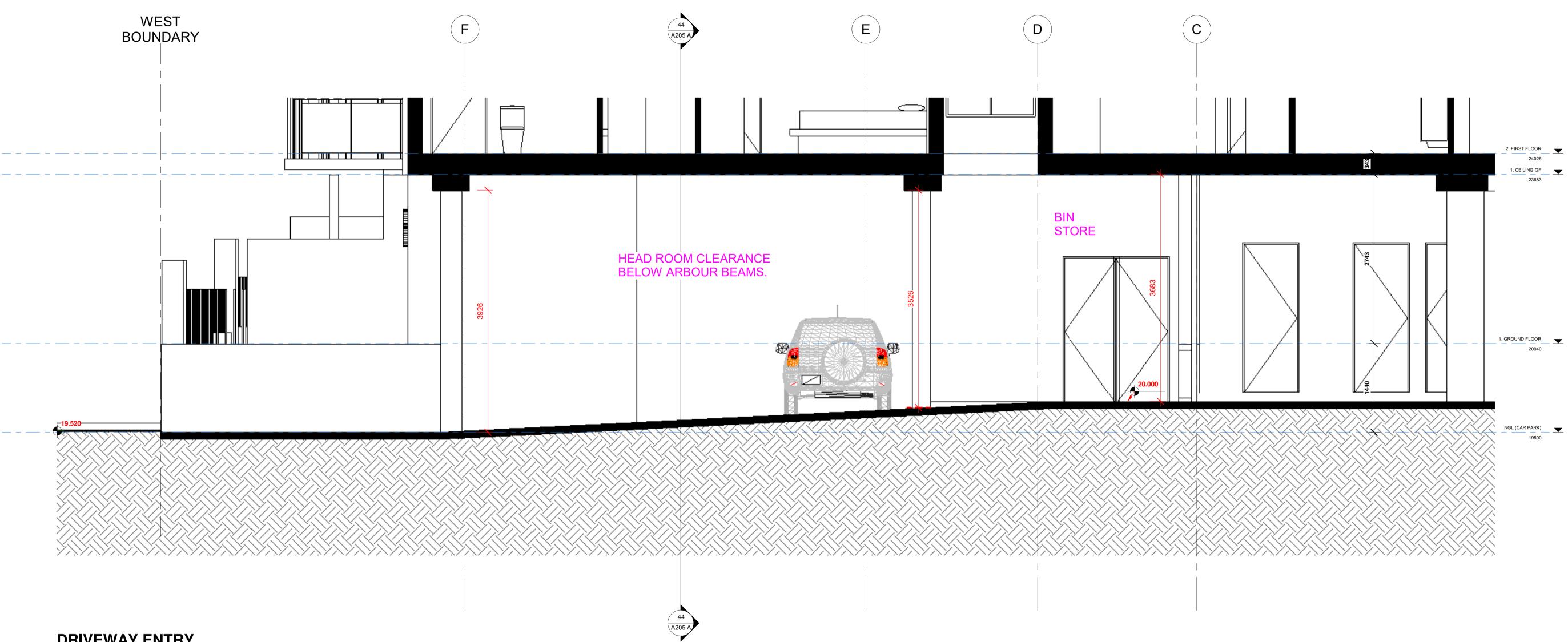
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COMMON AREA SCREENING



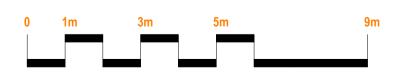
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DRIVEWAY ENTRY

1 : 35



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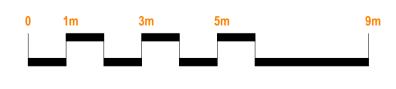


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2. FIRST FLOOR 1:100

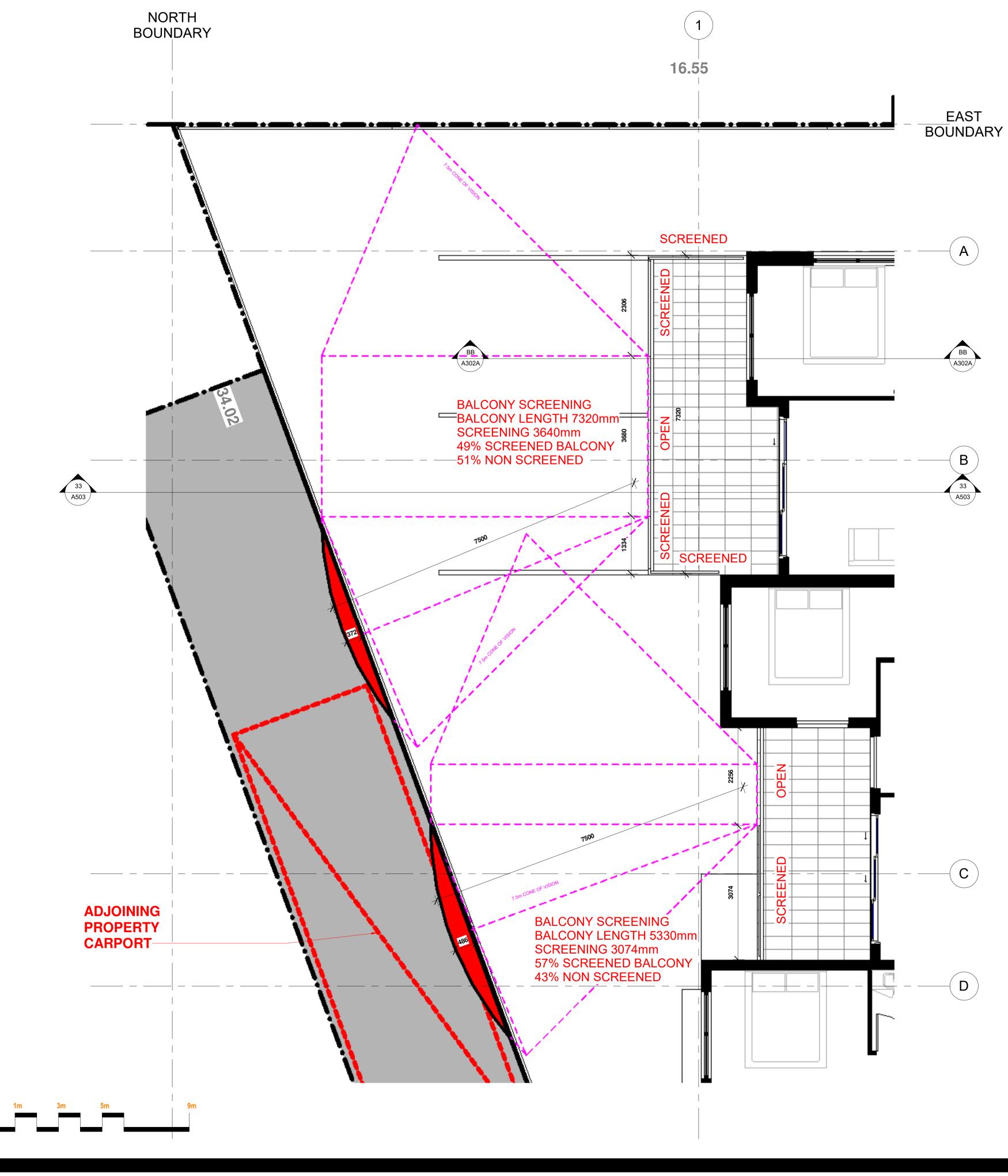


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FIRST / SECOND FLOOR BALCONY SCREENING 1 : 50

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DEVELOPMENT APPLICATION DA006 - 28/04/2020

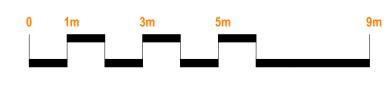
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3. SECOND FLOOR

1:100



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OPERABLE VELUX SKYLIGHT WINDOWS



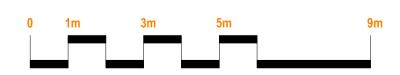


APARTMENTS - 5,6,12,13

1 : 50

LIVIABLE HOUSING DESIGN - SILVER LEVEL

Kitchen Space 8. Dwelling Access. 1000mm Corridor Width. Clear Path of Travel and No Steps No requirement for Silver level 1. 9. Laundry Space Dwelling Entry. Minimum 820 Door Clear Opening 2. No requirement for Silver level 1200x1200 Entry Zone 10. Ground/Bedroom Space No requirement for Silver level Internal Doors and Circulation 3. 1000mm Corridor Width. Switches & GPO's 11. Minimum 820 Door Clear Opening No requirement for Silver level 4. WC. 12. Door and Tapware. 900 Width to WC No requirement for Silver level 1200 forward of the WC Pan Family Room/Living Spaces No requirement for Silver level 13. Shower 5. Hobless Showers Shower Recess located in the Corner 14. Window Sills. No requirement for Silver level Bathroom Walls – Reinforcement & Strength 6. Construction will be brick/block 15. Flooring No requirement for Silver level 7 Stairways – Handrails Continuous Handrails to Stairwells Provided



1:100 @ A1 1:200 @ A3



8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A206

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EAST ELEVATION BOUNDARY RETAINING 1:100

T.O.R = TOP OF RETAINING **B.O.W = BASE OF WALL** W.H = WALL HEIGHT





8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A401

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1:100

SOUTH ELEVATION - BOUNDARY WALL HEIGHTS



SOUTH ELEVATION

1:100







AL WINDOW AWNING

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TRANSLUCENT CANOPY OVER BALCONIES

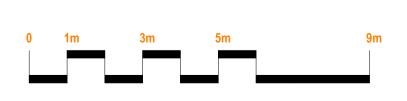
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DA006 - 28/04/2020 A403 28/04/2020 10:49:04 AM

8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020

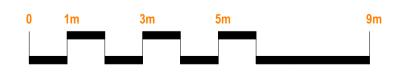
ZEGNA DULLDUC Zegna.net.au HARDENJONESARCHITECTS www.hjarchitect.com.au

T.O.R = TOP OF RETAINING B.O.W = BASE OF WALL W.H = WALL HEIGHT



WEST ELEVATION - BRECHIN COURT 1 : 100





1:100 @ A1 1:200 @ A3

REFER TO DIAGRAMS FOR BUILDING ENVELOPES/SETBACKS 4. ROOF 3. CEILING 2F 3. SECOND FLOOR ₩¥ 27112 _____ 2. CEILING 1F 26769 2. FIRST FLOOR T 24026 1. CEILING GF 2 A404 1. GROUND FLOOR 20940 19 50 NGL (CAR PARK) \mathbf{X}



8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A404

28/04/2020 10:49:10 AM



ATTACHMENT 3 - BUILDING PERSPECTIVES



8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A407

28/04/2020 10:49:33 AM



BRECHIN CT CBRECHIN CRT-

EXTERNAL FINISHES:







FACE BRICK RENDERED - GREY
 RENDERED - WHITE
 RENDERED - DARK GREY

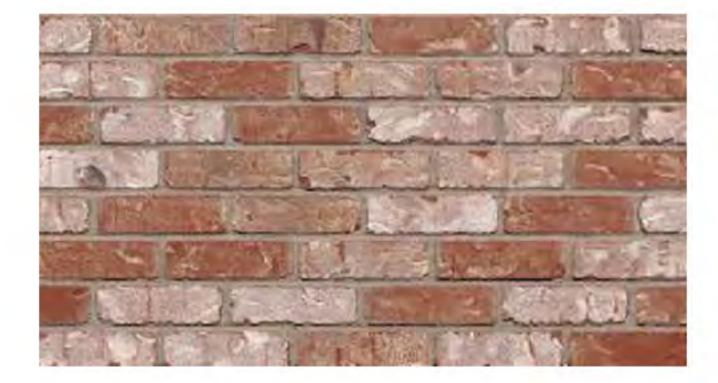
9 FIXED AL SLATTED SCREENING

NOT TO SCALE

ENTRY PERSPECTIVE-



3 ALUMINIUM GLASS BALUSTRADE



4 FACE BRICK -



5 CONCRETE BEAMS / ARBORS -VERTICAL PLANTING



8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A405

28/04/2020 10:49:17 AM

BRECHIN CRT - PERSPECTIVE





SOUTH EAST PERSPECTIVE

BRECHIN CRT - PERSPECTIVE 2





NORTH PERSPECTIVE



8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A406

28/04/2020 10:49:33 AM



8-10 BRECHIN COURT, DUNCRAIG

DWG No	TITLE
A.1000	COVER
A.1001	SITE CONTEXT
A.1001	SITE CONTEXT
A.1003	STREET SCAPE
A.1004	CONTEXT ELEVATION
A.1005	CONTEXT ELEVATION
A.1006	CONTEXT ELEVATION

ATTACHMENT 4 - CONTEXT PLANS



8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A1000

28/04/2020 10:32:53 AM

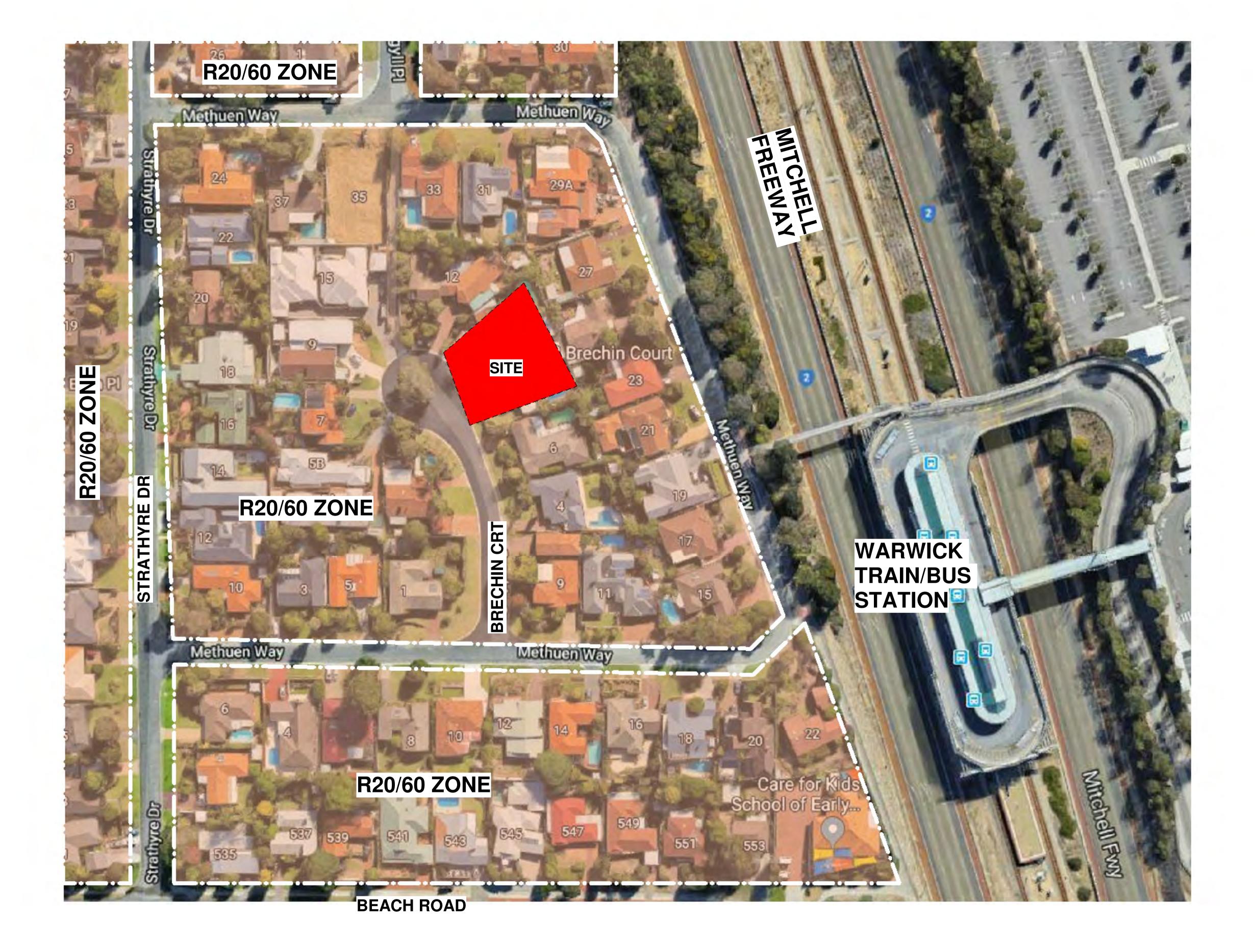


SITE CONTEXT



8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020

A1001 28/04/2020 10:32:53 AM



SITE CONTEXT

NOT TO SCALE



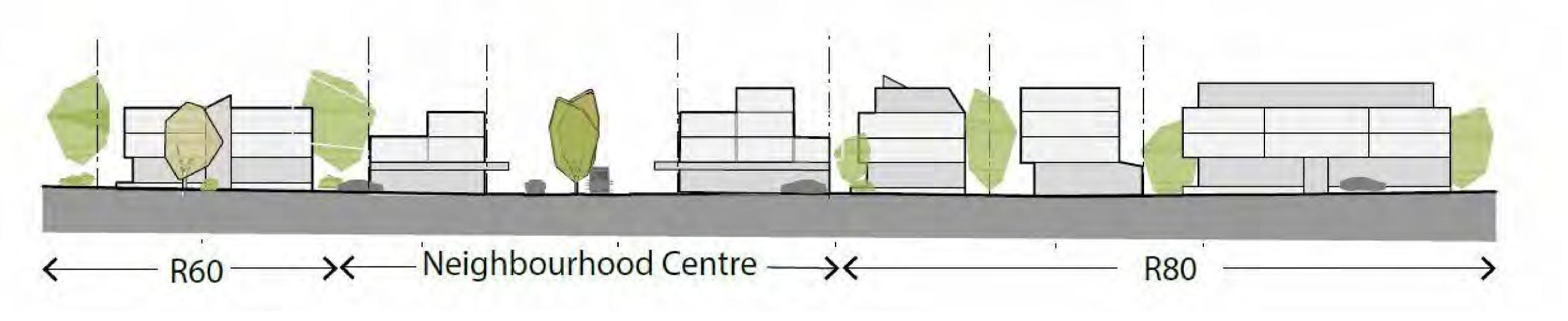
8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A1002

28/04/2020 10:32:53 AM

Neighbourhood centre

Context: A local or neighbourhood centre within a low – medium rise residential area. Neighbourhood centres should be located within a short walk of transport and other amenities and include built form and uses that activate the **street**. Land uses within a neighbourhood centre may include residential, community facilities, local shopping and commercial activities.

Character: Neighbourhood centres have a compact and cohesive urban from that complements the surrounding residential character in scale and style. New **development** should contribute to the public realm by enhancing and activating the **streetscape** and contributing to creating a distinct and appealing character for the centre.



A2 - STREETSCAPE CHARACTER TYPES - P116 DESIGN WA



8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A1003

28/04/2020 10:32:53 AM



BRECHIN COURT STREET ELEVATION - EXISTING WITH PROPOSED DEVELOPMENT



BRECHIN COURT STREET ELEVATION - EXISTING WITH PROPOSED DEVELOPMENT



8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A1004

28/04/2020 10:32:56 AM

BRECHIN COURT STREET ELEVATION - FUTURE DEVELOPMENT INDICATIVE ONLY.



BRECHIN COURT STREET ELEVATION - FUTURE DEVELOPMENT INDICATIVE ONLY.



8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A1005

28/04/2020 10:32:59 AM

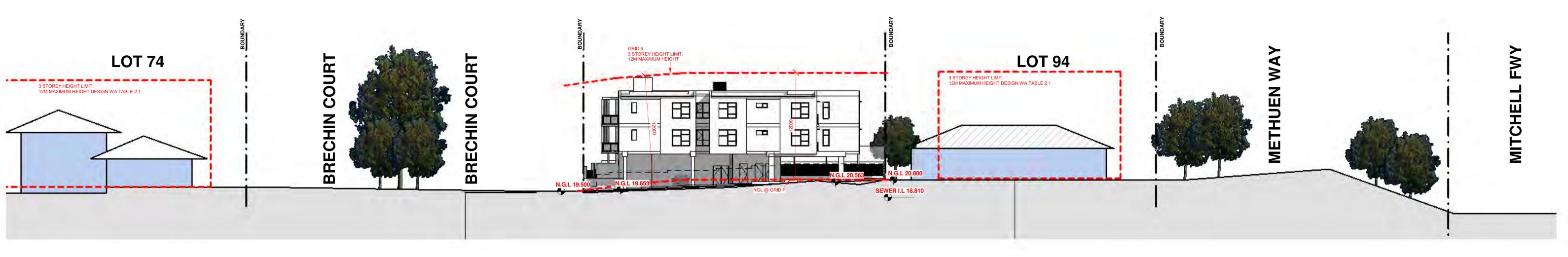
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	BOUNDARY
MIT. IT. STREET SETBACK.	
DEVELOPMENT	3500 SETBACK
S AS PER TABLE 2.1.	
103	





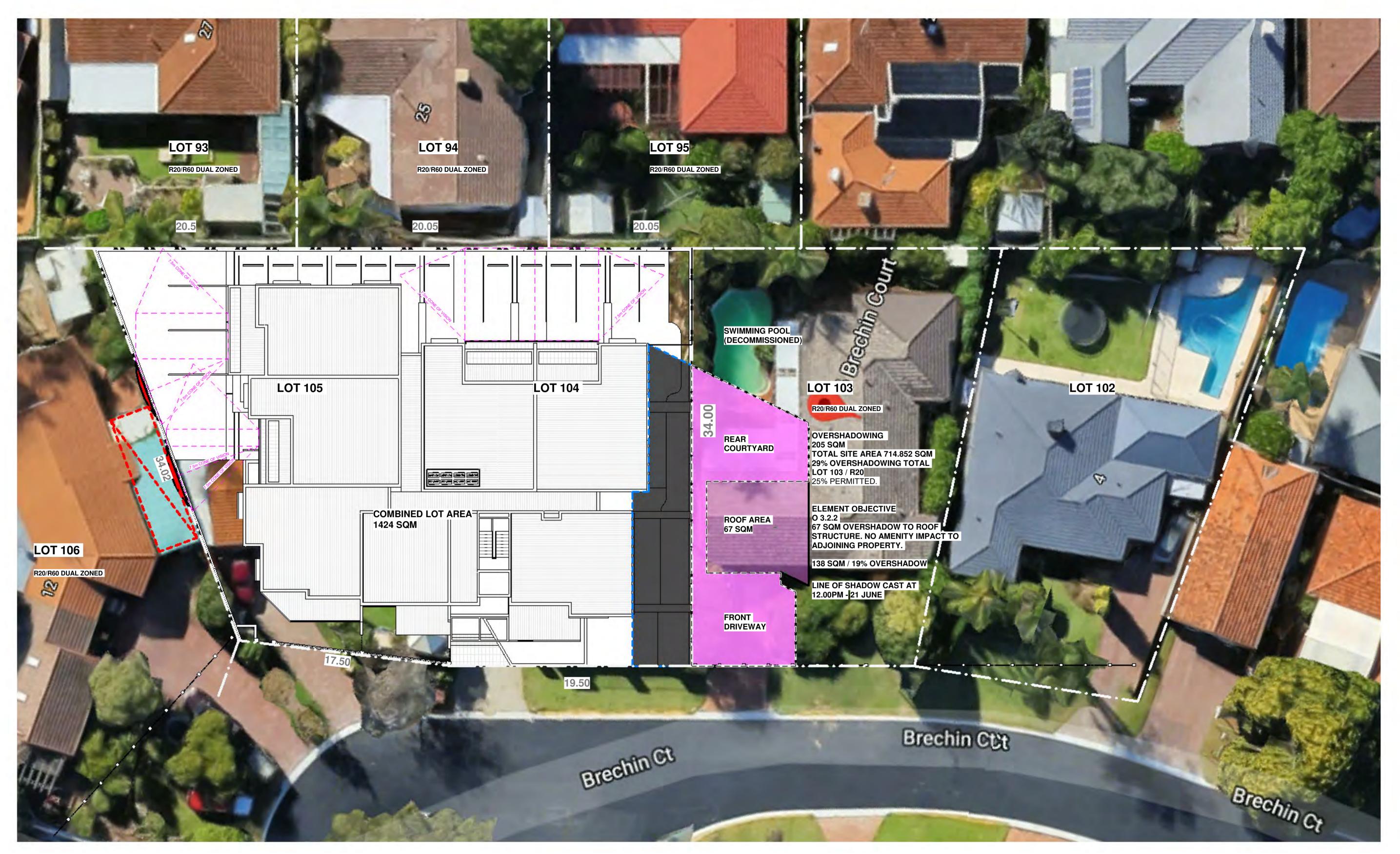


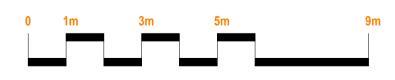




8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A1006

28/04/2020 10:33:00 AM





SHADOW DIAGRAM 1 : 150

1:100 @ A1 1:200 @ A3

ATTACHMENT 5 - SHADOW DIAGRAM

MORTH



8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A205

28/04/2020 10:48:40 AM



ATTACHMENT 6 - LANDSCAPE PLANS

ID	Botanical Name	Qty	Schedule
CIT TL	Citrus 'Tahitian Lime'	3	30Lt
EUC MA	Eucalyptus mannifera	4	30Lt
GRE JU	Grevillea juniperina	13	30Lt
MAL PL	Malus domestica 'Dwarf Pink Lady'	2	30Lt
PRU GR	Punica granatum	1	30Lt
PRU MD	Prunus armeniaca 'Moorpark' Dwarf	3	30Lt
EUC SI	Eucalyptus sideroxylon `Rosea`	3	100Lt
FRA GR	Fraxinus griffithii	4	100Lt
LAG TU	Lagerstromeria indica x L.fauriei 'Tuscarora'	1	100Lt
OLE EU	Olea europaea	1	100Lt
PRU CS	Prunus cerasifera 'Crimson Spire'	7	100Lt
SEA HE	Seasonal herbs	15	100mm
SEA VE	Seasonal Vegetables	31	100mm
THY SE	Thymus serpyllum	17	100mm
TRO MA	Tropaeolum majus	8	100mm
BAE CO	Beackea virgata compacta	11	130mm
CAL QP	Calothamnus quadrifidus Prostrate	20	130mm
CAR VI	Carpobrotus virescens	38	130mm
CAS GL	Casuarina glauca 'Cousin It'	8	130mm
DIA TA	Dianella tasmanica 'Blaze'	71	130mm
DIA VA	Dianella hybrida Variegated	76	130mm
ERE BH	Eremophila glabra 'Blue Horizon'	9	130mm
GRE CB	Grevillea 'Cherry Burst'	8	130mm
GRE HJ	Grevillea 'Hills Jubilee'	8	130mm
LAV SB	Lavandula augustifolia 'Sentivia Blue'	39	130mm
LEP GL	Lepidosperma gladiatum	10	130mm
LIR EC	Liriope muscari 'Emerald Cascade'	40	130mm
LOM TA	Lomandra longifolia 'Tanika'	101	130mm
MYR PA	Myoporum parvifolium	27	130mm
MYR PA-BL	Myoporum parvifolium 'Broadleaf'	12	130mm
OLE AX	Olearia axillaris	12	130mm
OLE LS	Olearia axillaris 'Little Smokie'	62	130mm
PAS ED	Passiflora edulis	1	130mm
ROS TB	Rosmarinus officinalis 'Tuscany Blue'	11	130mm
SCA AE	Scaevola aemula	12	130mm
VAC SB	Vaccinium corymbosum Blueberry 'Sunshine Bl	3	130mm
ANI BR	Anigozanthos 'Big Red'	29	200mm
ART CI	Arthropodium cirratum	16	200mm
HEB WV	Hebe wiri Image	10	200mm
LOR PG	Loropetalum Plum Gorgeous	4	200mm
PIT MM	Pittosporum tobira 'Miss Muffett'	6	200mm
RHA OP	Raphiolepsis 'Oriental Pearl'	44	200mm
VIB OD	Viburnum odoratissimum 'Emerald Lustre'	27	200mm
WES AB	Westringia fruticosa 'Aussie Box'	17	200mm
WES GB	Westringia 'Grey Box'	49	200mm
ANG CO	Angophora costata	1	500Lt

Plant Schedule

2

3

Botanical name Schedule Tree Size (H) Qty Tree Size ID Citrus 'Tahitisn Lime' CIT TL 30Lt 3000 3 Small MAL PL Malus domestica 'Dwarf Pink Lady' 3000 2 Small 30Lt 1 Small PRU GR Punica granatum 'Pomegranate' 30Lt 5000 PRU MD Prunus armeniaca 'Moorpark' Dwarf 30Lt 4000 3 Small FRA GR Fraxinus griffithii 'Ash' 100Lt 7000 4 Small Eucalyptus sideroxylon `Rosea` 100Lt 12000 EUC SI 3 Large LAG TU Lagerstromeria indica x L.fauriei 'Tuscarora' 6000 100Lt 1 Small OLE EU 100Lt 8000 Olea europaea 'Olive' 1 Medium PRU CS 100Lt 7000 7 Small Prunus cerasifera 'Crimson Spire' Eucalyptus mannifera 'Little Spotty' EUC MA 200Lt 8000 4 Medium 500Lt ANG CO Angophora costata 'Smooth-Barked Apple' 14000 1 Large

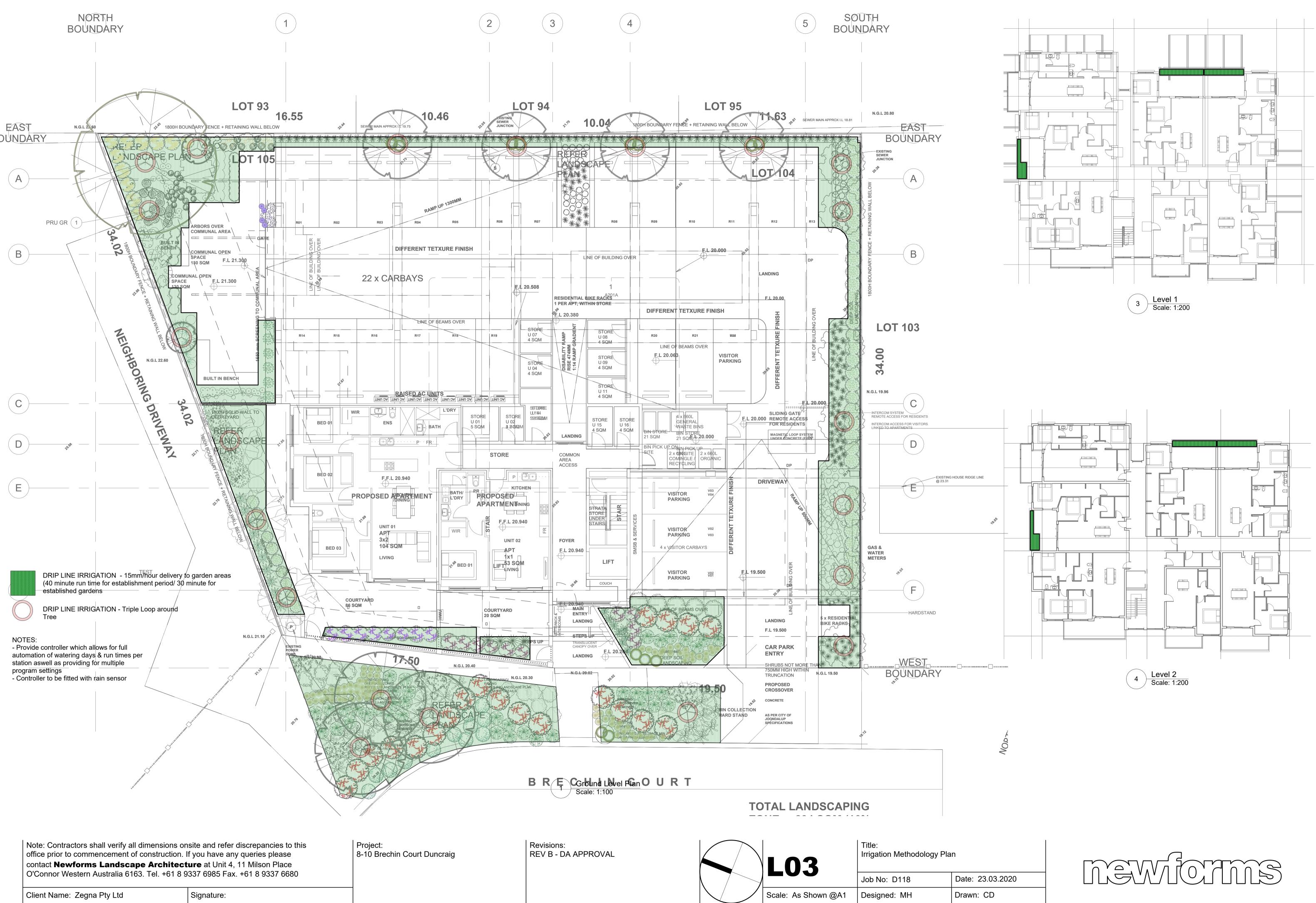
Deep Soil Planting Schedule

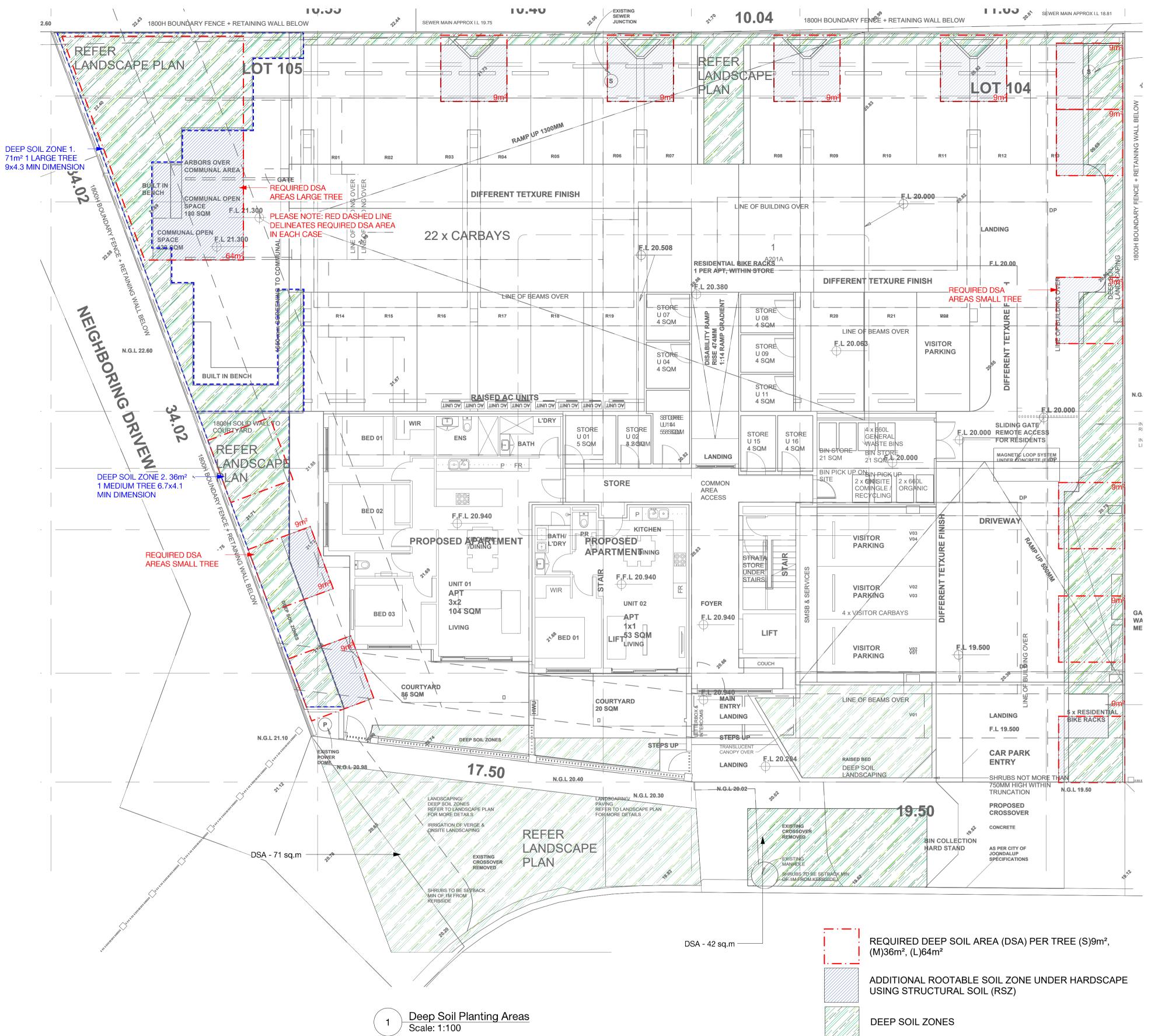
LOT AREA - 1424 SQ.M DSA - 234 SQ.M - 16%

SPP 3.3.3 MINIMUM DEEP SOIL AREA AND TREE PROVISION REQUIREMENTS; 1x LARGE TREE & 1x MEDIUM TREE FOR EACH ADDITONAL 400m2 IN EXCESS of 1000m2

PLEASE NOTE: DSA CALCULATIONS EXCLUDE AREAS OUTSIDE OF LOT BOUNDARY. VERGE NOT INCLUDED.



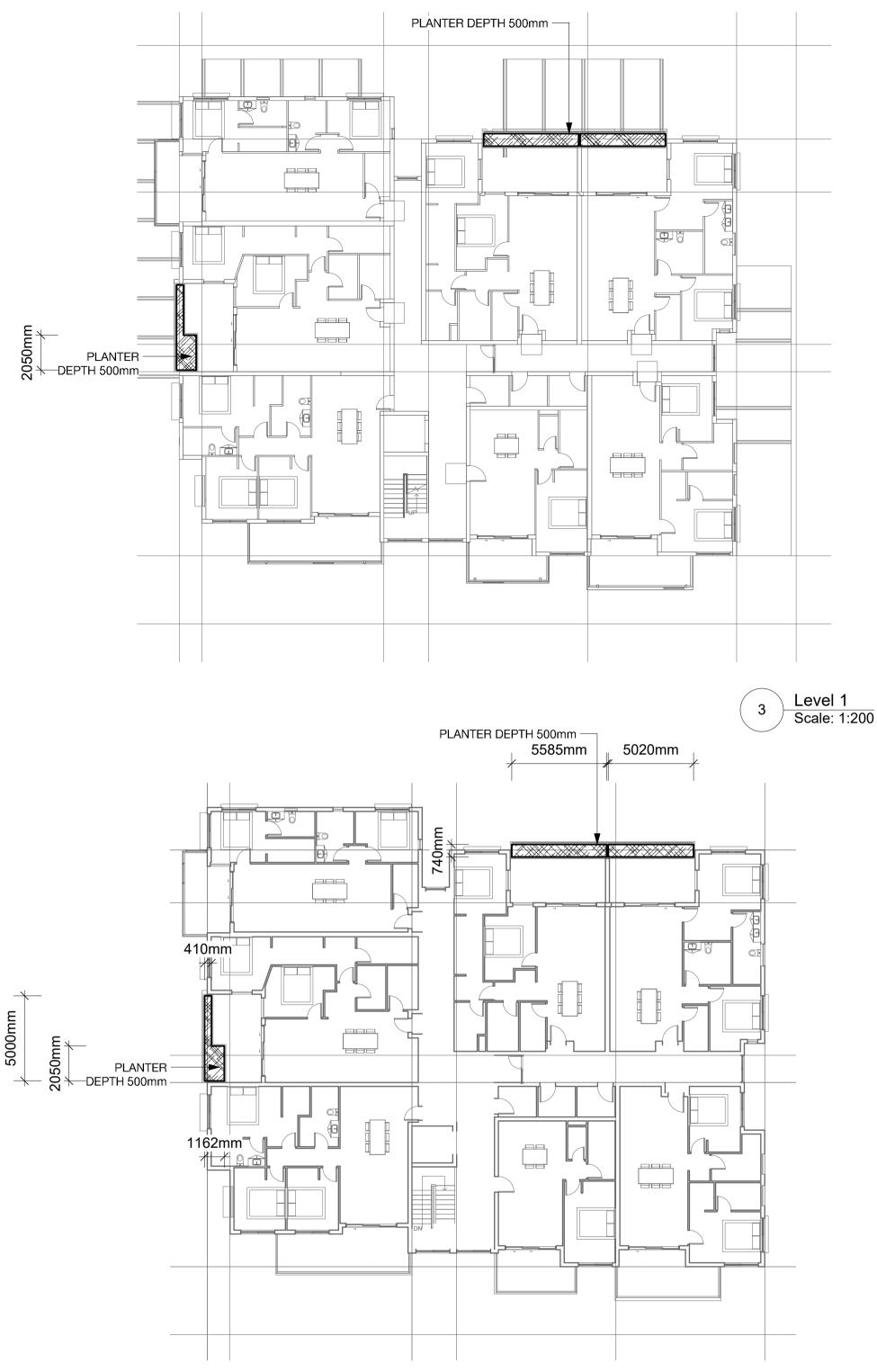


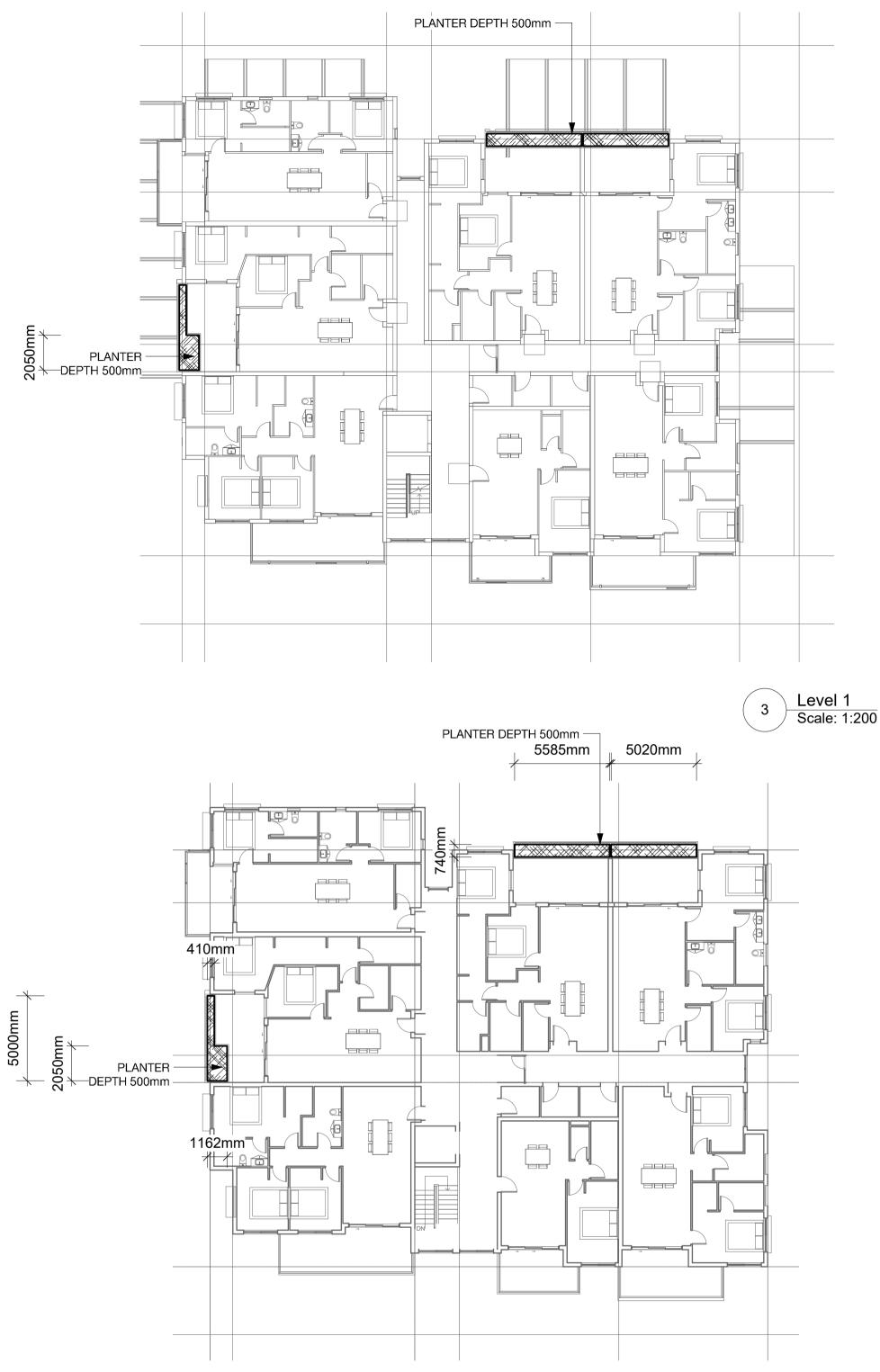


Note: Contractors shall verify all dimensions onsite and refer discrepancies to this office prior to commencement of construction. If you have any queries please contact **Newforms Landscape Architecture** at Unit 4, 11 Milson Place O'Connor Western Australia 6163. Tel. +61 8 9337 6985 Fax. +61 8 9337 6680

Project: 8-10 Brechin Court Duncraig

Signature:



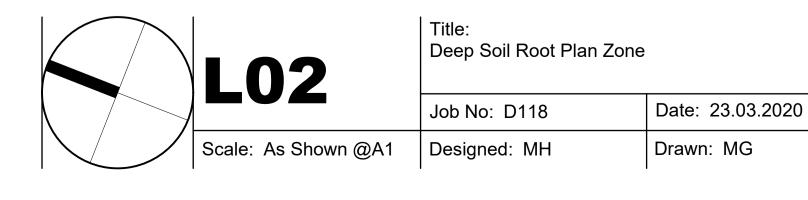


PLANTING ON STRUCTURE - 1m DEPTH

LOT AREA - 1424 SQ.M DSA - 234 SQ.M - 16%

PLEASE NOTE: DSA CALCULATIONS EXCLUDE AREAS OUTSIDE OF LOT BOUNDARY. VERGE NOT INCLUDED.

Revisions: REV A-DA APPROVAL REV B-DA APPROVAL REV C-DA APPROVAL REV D-DA APPROVAL REV E-DA APPROVAL



Botanical name

Citrus 'Tahitisn Lime'

Fraxinus griffithii 'Ash'

Olea europaea 'Olive'

Malus domestica 'Dwarf Pink Lady'

Prunus armeniaca 'Moorpark' Dwarf

Lagerstromeria indica x L.fauriei 'Tuscarora'

Angophora costata 'Smooth-Barked Apple'

Punica granatum 'Pomegranate

Eucalyptus sideroxylon 'Rosea'

Prunus cerasifera 'Crimson Spire'

Eucalyptus mannifera 'Little Spotty'

Deep Soil Planting Schedule

ID

CIT TL

MAL PL

PRU GR

PRU MD

FRA GR

EUC SI

LAG TU

OLE EU

PRU CS

EUC MA

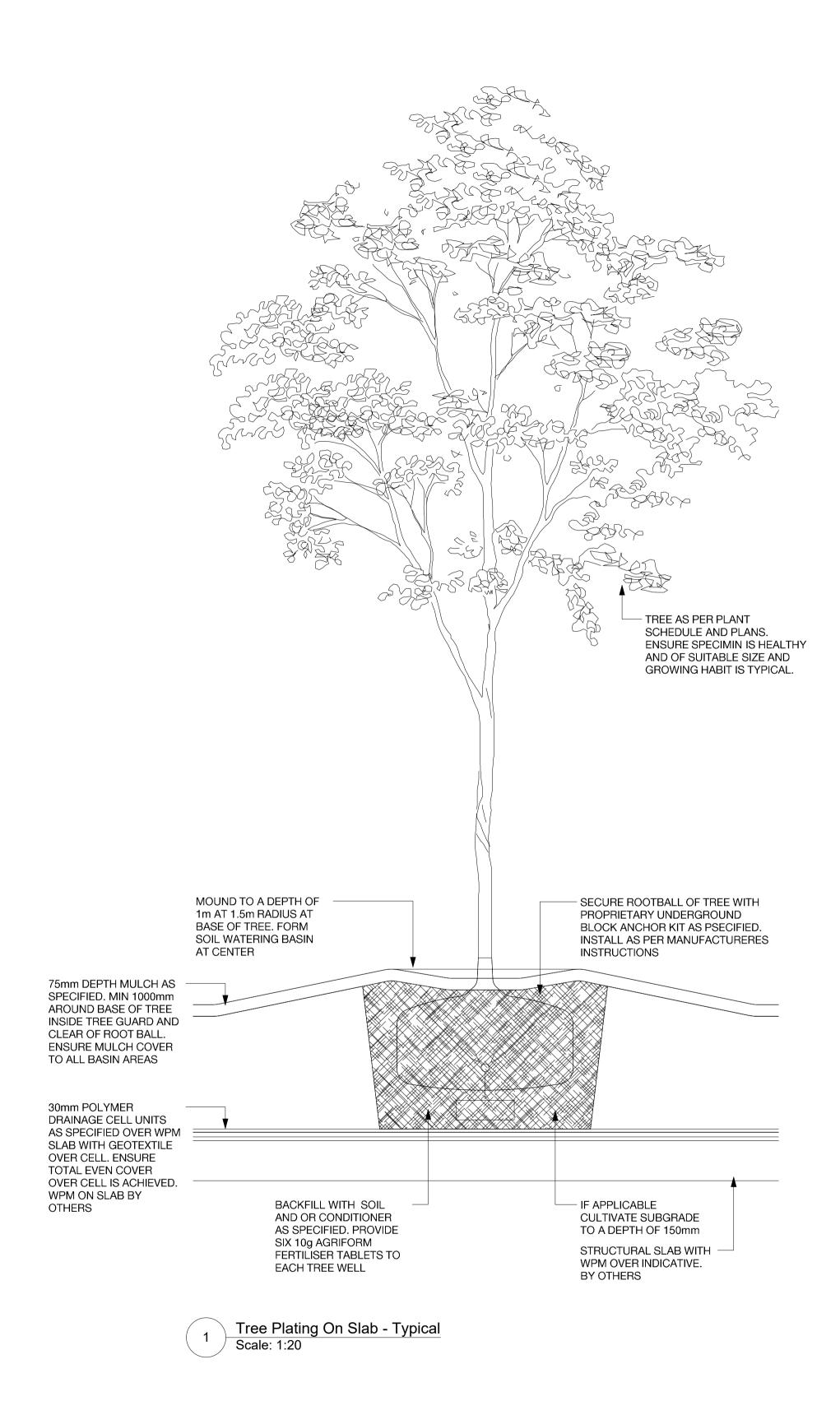
ANG CO

2)

5	Level 2
5	Scale: 1:200

Schedule	Tree Size (H)	Qty	Tree Size
30Lt	3000	3	Small
30Lt	3000	2	Small
30Lt	5000	1	Small
30Lt	4000	3	Small
100Lt	7000	4	Small
100Lt	12000	3	Large
100Lt	6000	1	Small
100Lt	8000	1	Medium
100Lt	7000	7	Small
200Lt	8000	4	Medium
500Lt	14000	1	Large
	30Lt 30Lt 30Lt 100Lt 100Lt 100Lt 100Lt 100Lt 200Lt	30Lt 3000 30Lt 3000 30Lt 5000 30Lt 5000 30Lt 4000 100Lt 7000 100Lt 6000 100Lt 8000 100Lt 7000	30Lt 3000 3 30Lt 3000 2 30Lt 5000 1 30Lt 5000 1 30Lt 4000 3 100Lt 7000 4 100Lt 12000 3 100Lt 6000 1 100Lt 8000 1 100Lt 8000 4

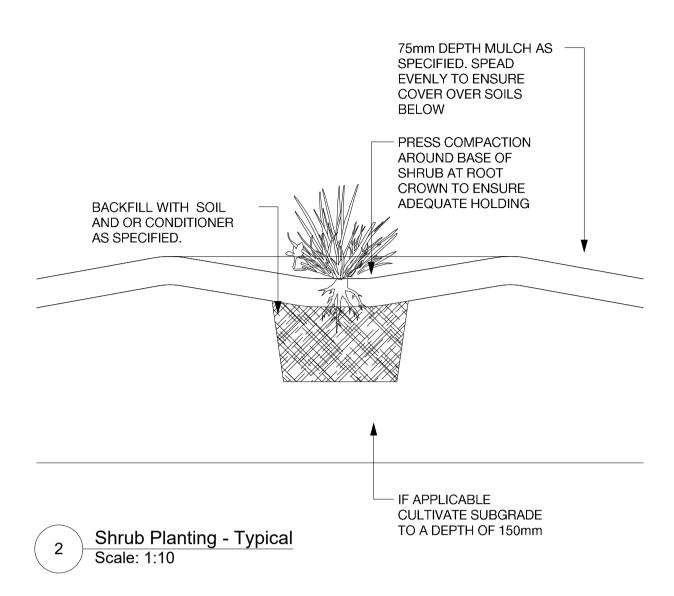


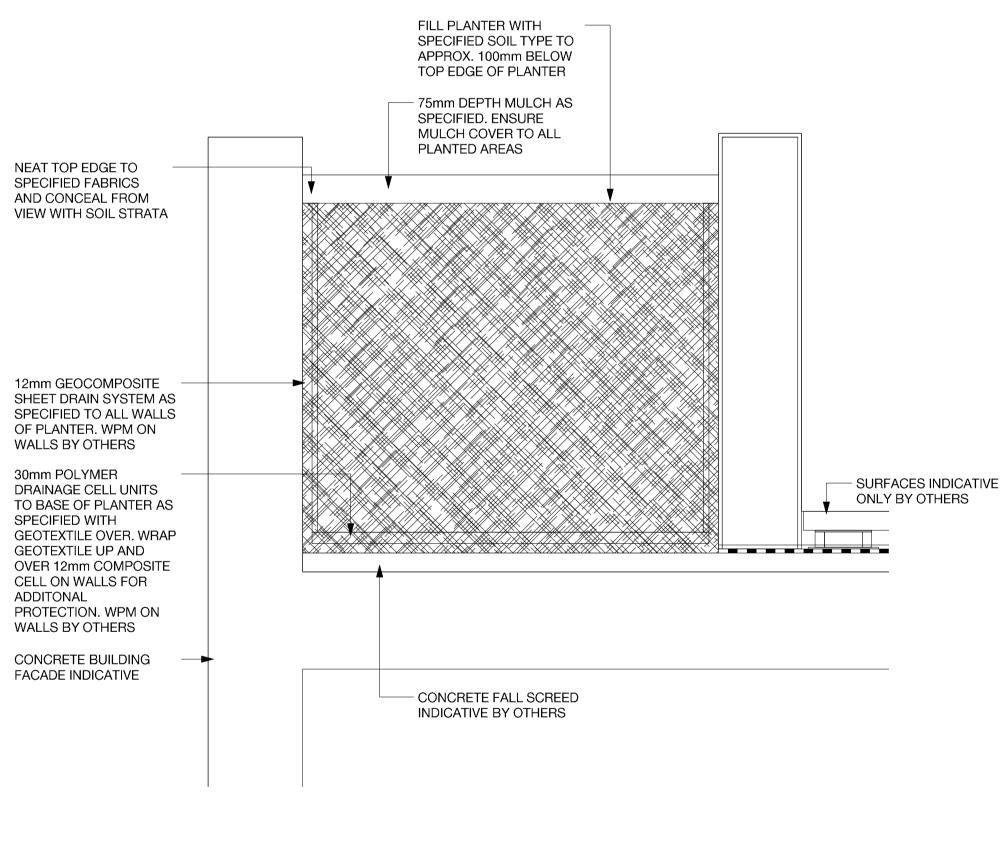


Note: Contractors shall verify all dimensions onsite and refer discrepancies to this office prior to commencement of construction. If you have any queries please contact Newforms Landscape Architecture at Unit 4, 11 Milson Place O'Connor Western Australia 6163. Tel. +61 8 9337 6985 Fax. +61 8 9337 6680

Project: 8-10 Brechin Court Duncraig

Signature:





Raised Planter Section Detail - Typical 3 Scale: 1:10

Title: Landscape General Details **L04** Date: 23.03.2020 Job No: D118 Scale: As Shown @A1 Designed: MH Drawn: CD

Revisions: REV A- DA APPROVAL REV B- DA APPROVAL REV C- DA APPROVAL







Malus domestica 'Dwarf Pink Lady'



Anigozanthus flavidius 'Big Red'



Dianella 'B



Liriope 'Emerald Cascade'



Citrus 'Tahitian Lime'

Olea europea

Arthropodium cirratum

Eremophila 'Blue Horizon'

Lomandra longifolia 'Tanika'













Plant Reference Images Scale: 1:50



Project: 8-10 Brechin Court Duncraig



Prunus armeniaca 'Moorpark' Dwarf



Calothamnus quadrifidus prostrate



Grevillea 'Hills Jubilee'



Loropetalum 'Plum Gorgeous'





Prunus cerasifera 'Crimson Spire'



Carpobrotus virescens



Hebe 'Wiri Image'



Myoporum parvifolium (Broad leaf)



Lagerstromeria indica x L.fauriei 'Tuscarora'



Punica granatum



Casurina glauca 'Cousin It'



Lepidospermum gladiatum



Pittosporum tobira 'Miss Muffett'



Rhaphiolepsis 'Oriental Pearl'



Rosmarinus officinalis 'Tuscan Blue'

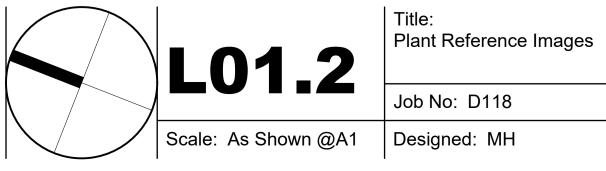


Viburnum odoratissimum 'Emerald Lustre'



Westringia 'Aussie Box'





Date: 23.03.2020 Drawn: CD





Eucalyptus mannifera



Angophora costata













Note: Contractors shall verify all dimensions onsite and refer discrepancies to this office prior to commencement of construction. If you have any queries please contact **Newforms Landscape Architecture** at Unit 4, 11 Milson Place O'Connor Western Australia 6163. Tel. +61 8 9337 6985 Fax. +61 8 9337 6680

Project: 8-10 Brechin Court Duncraig

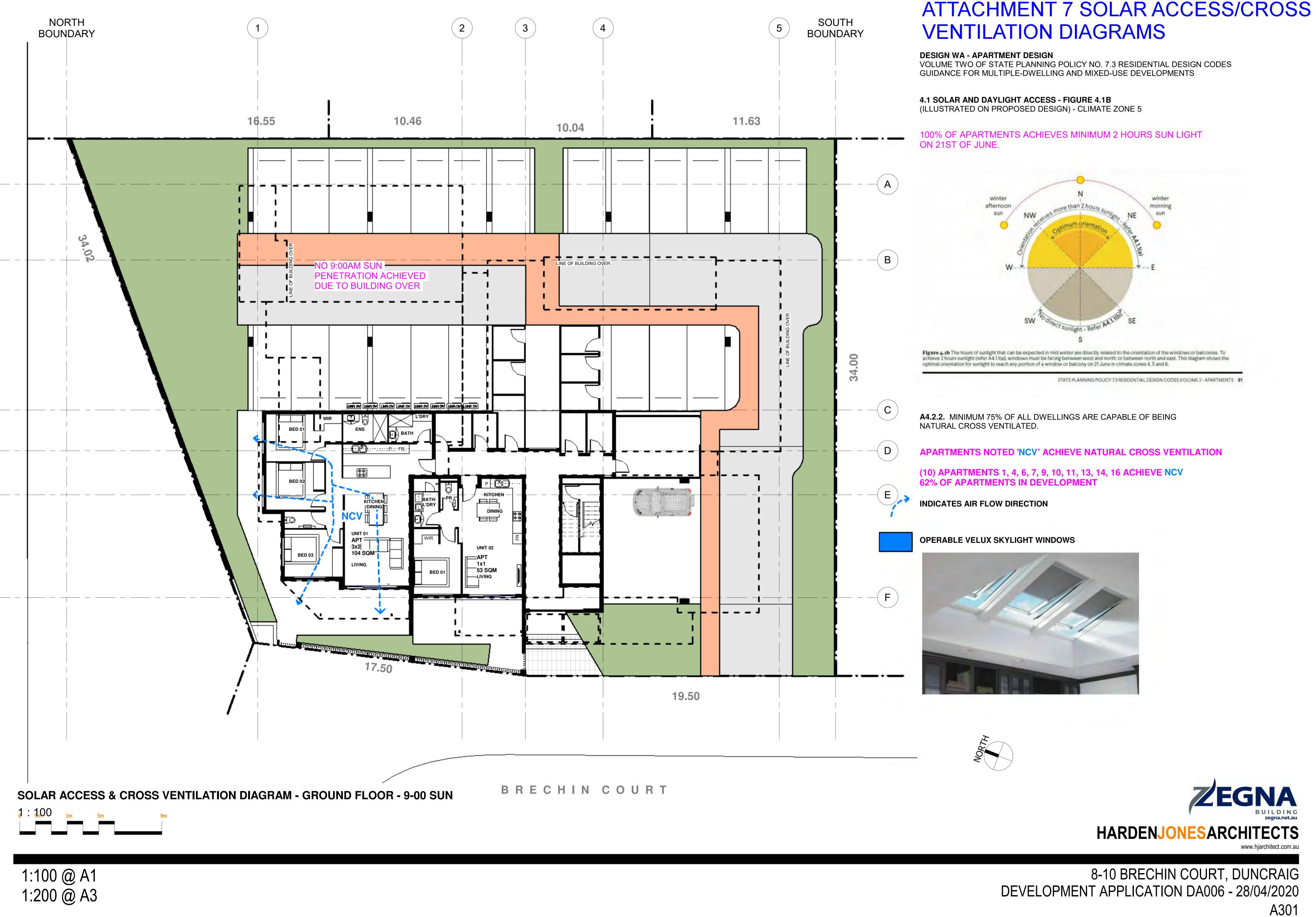
Signature:

2 Level 2 Scale: 1:100

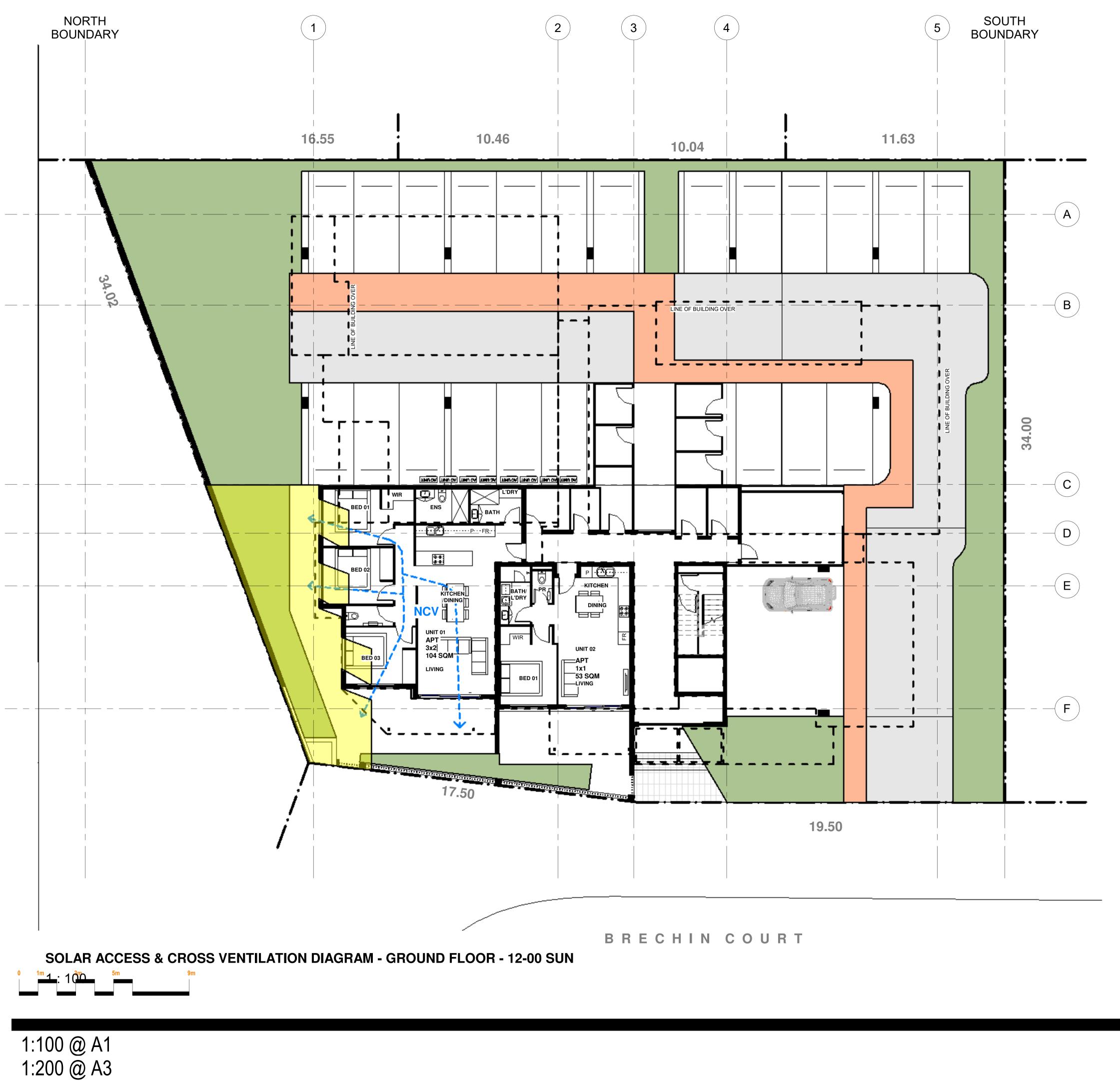
Revisions: REV A - DA APPROVAL







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APARTME

MINIMUM SOLAR AND DAYLIGHT ACCESS

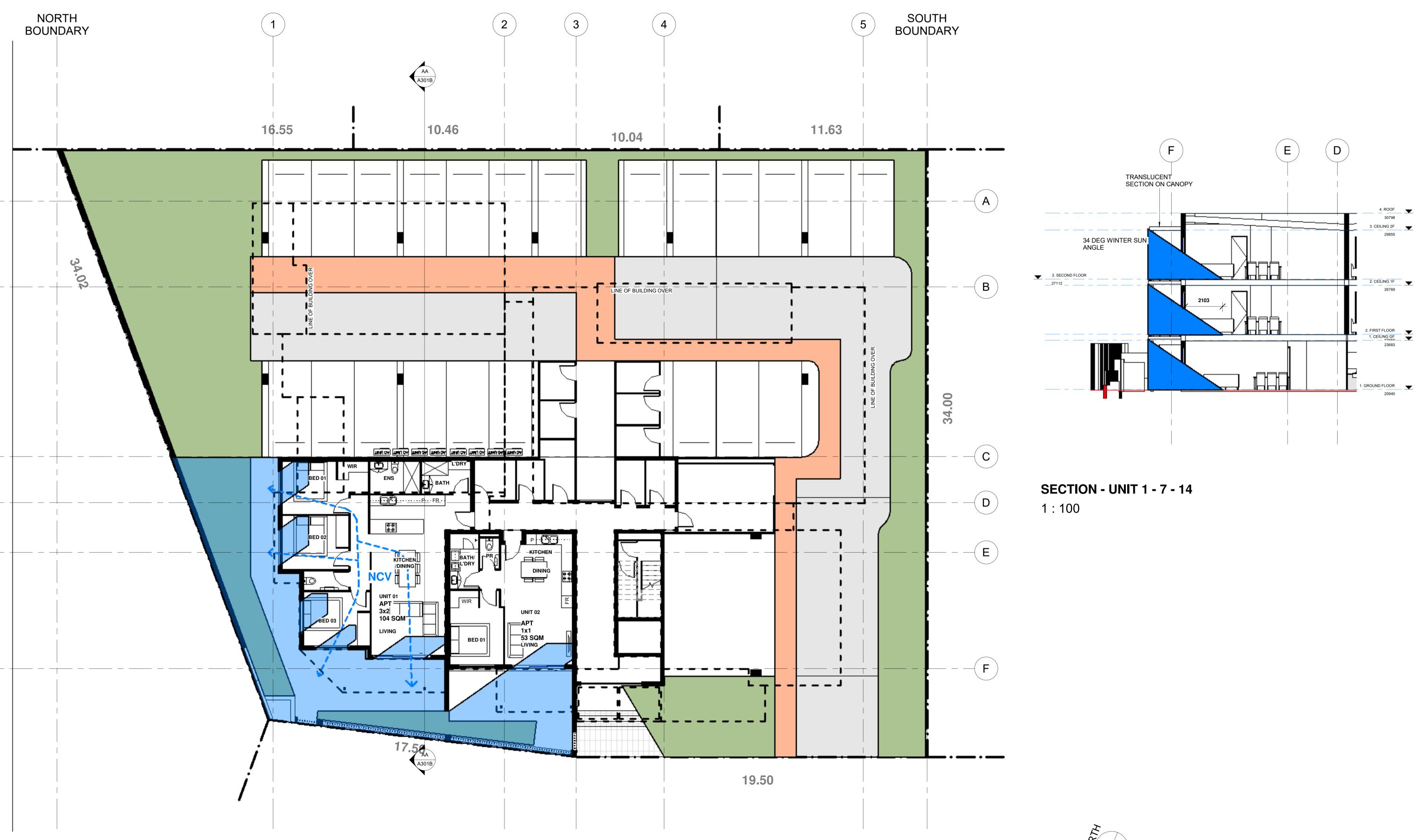
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	SW	NIL	2 HOURS	2 HOURS
	SW	NIL	NIL	2 HOURS
	Ν	NIL	2 HOURS	2 HOURS
	NE	2 HOURS	2 HOURS	2 HOURS
	E	2 HOURS	NIL	NIL
	ES	2 HOURS	2 HOURS	NIL
	WN	NIL	2 HOURS	2 HOURS
	W	NIL	NIL	2 HOURS
	WS	NIL	NIL	2 HOURS
	Ν	NIL	2 HOURS	2 HOURS
	NE	2 HOURS	2 HOURS	2 HOURS
	E	2 HOURS	NIL	NIL
	ES	2 HOURS	2 HOURS	NIL
	WN	NIL	2 HOURS	2 HOURS
	W	NIL	NIL	2 HOURS
	WS	NIL	NIL	2 HOURS



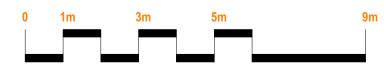


8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020

A301A 28/04/2020 10:48:42 AM



SOLAR ACCESS & CROSS VENTILATION DIAGRAM - GROUND FLOOR - 15-00 SUN 1:100

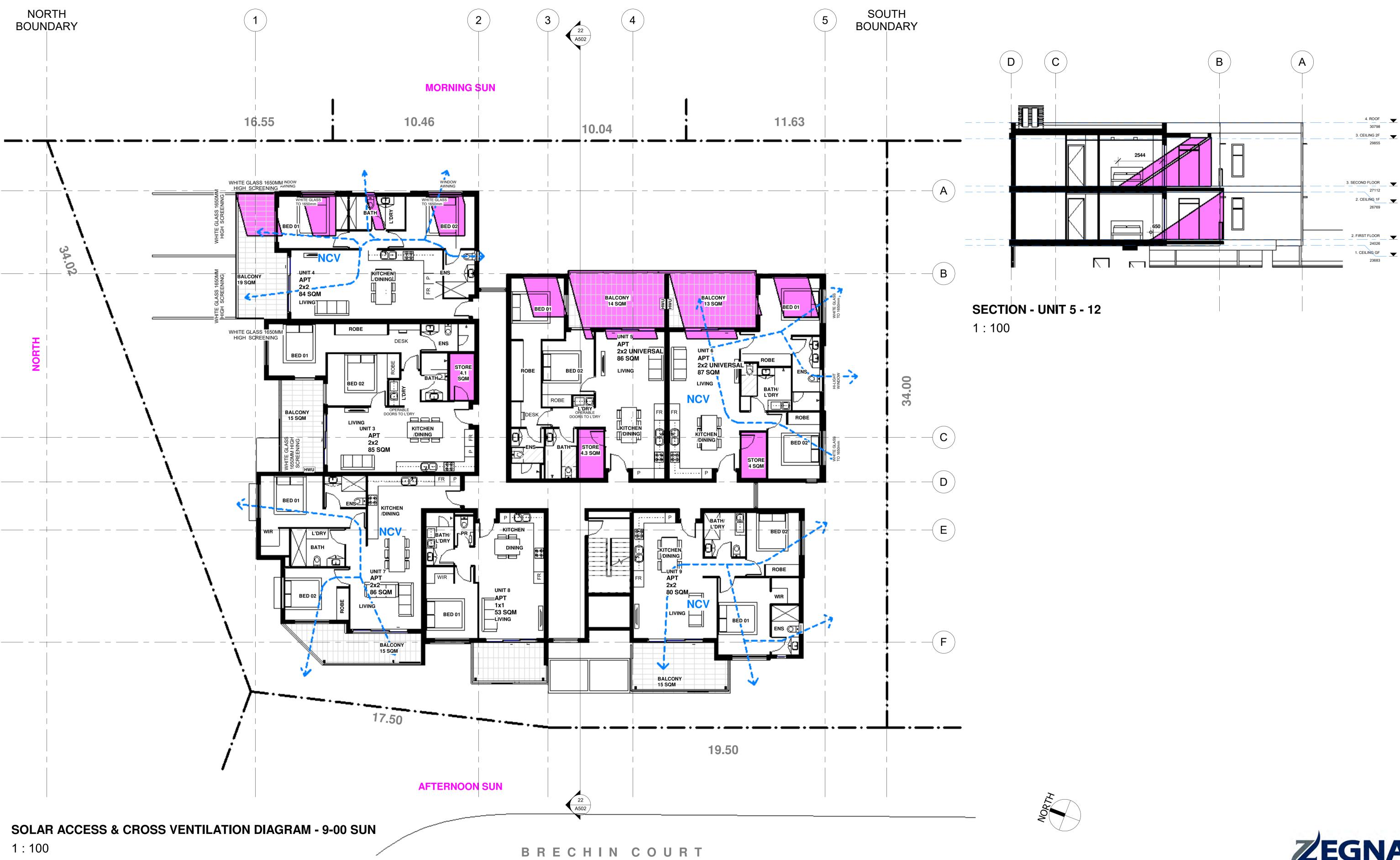


1:100 @ A1 1:200 @ A3



8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A301B

28/04/2020 10:48:43 AM





8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A302

28/04/2020 10:48:44 AM



SOLAR ACCESS & CROSS VENTILATION DIAGRAM - FIRST FLOOR - 12-00 SUN 1:100

0 1m 3m 5m 9r

1:100 @ A1 1:200 @ A3



8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020

A302A 28/04/2020 10:48:45 AM



1:200 @ A3



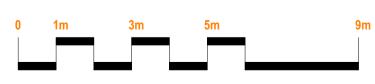
ZEGNA BUILDING zegna.net.au HARDENJONESARCHITECTS www.hjarchitect.com.au

8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A302B

28/04/2020 10:48:46 AM



SOLAR ACCESS & CROSS VENTILATION DIAGRAM - SECOND FLOOR - 9-00 SUN 1:100



1:100 @ A1 1:200 @ A3

8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020 A303

28/04/2020 10:48:47 AM

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SOLAR ACCESS & CROSS VENTILATION DIAGRAM - SECOND FLOOR - 12-00 SUN 1:100

0 1m 3m 5m 9r

1:100 @ A1 1:200 @ A3



BRECHIN COURT

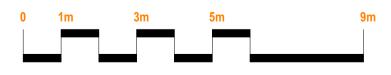
8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020

A303A 28/04/2020 10:48:48 AM

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SOLAR ACCESS & CROSS VENTILATION DIAGRAM - SECOND FLOOR - 15-00 SUN 1:100



1:100 @ A1 1:200 @ A3 BRECHIN COURT

8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA006 - 28/04/2020

A303B 28/04/2020 10:48:49 AM

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PROPOSED RESIDENTIAL DEVELOPMENT 8-10 BRECHIN COURT, DUNCRAIG.

WASTE MANAGEMENT PLAN. (WMP) CITY OF JOONDALUP



Submitted by



Suite 8-300 Rokeby Road Subiaco WA 6008 Ph | +61 8 9380 9900 Email | admin@hjarchitect.com.au

HJ Architects Pty Ltd ABN 33 066 326 257

Architects Board Registration 2552

Waste Management Plan - REV F 02/04/2020

CONTENTS:

- 1. INTRODUCTION & OBJECTIVES OF THE WASTE MANAGEMENT PLAN
- 2. SIZE AND LOCATIONS OF THE BIN STORES
- 3. BULK WASTE
- 4. MANAGEMENT OF THE BINS & MOVEMENT FOR COLLECTION
- 5. LOCATION OF THE BIN STORES ON SITE
- 6. BIN COLLECTION & WASTE SERVICE PROVIDOR
- 7. WASTE DISPOSAL AND MANAGEMENT DURING CONSTRUCTION
- 8. EDUCATION & ONGOING MANAGEMENT

9. ANNEXURES AND REPORTS

- 9.1 WASTE GENERATION RATES COJ 02/04/2020
- 9.2 BRECHIN COURT WMP FLOOR PLAN APRIL 2020 HJA (DA005) 02/04/2020
- 9.3 660L CAPACITY SULO BIN SULO 01/05/2019

1. INTRODUCTION & OBJECTIVES OF THE WASTE MANAGEMENT PLAN

The City of Joondalup (CoJ) require a Waste Management Plan (WMP) to be included as part of a build permit application for the construction of 16 Multiple Dwellings, 3 Levels at 8-10 Brechin Court, Duncraig.

The objective of this plan is to ensure that waste management is undertaken effectively, efficiently, and sustainably during the operation of the residential complex on completion and its occupation.

In simple terms, the WMP addresses the day to day needs of the operation of the proposed residential development at 8-10 Brechin Court required to ensure that the plan can be implemented effectively.

This WMP will be incorporated into the overall strata management of the residential complex.

This WMP has been prepared in accordance with requirements of the:

Waste Generation Rates Conformed by the COJ 17/03/2020

1.1 THE DEVELOPMENT PROPOSAL/WASTE GENERATION

WASTE GENERATION RATES

Refer to Annexure - Waste Generation Rates.

Dwelling Size	No. Units	General (L/week)	Recycling (L/fortnight)	Total Refuse (L/week)	Total Recycling (L/fortnight)
1 Bedroom apartment	3	80	40	240	120
2 Bedroom apartment	10	110	80	1100	800
3 Bedroom apartment	3	140	240	420	720
Total waste generation				1760	1640
Bins required (660L used) /week – General				2.66	
Bins required (660L used) /fortnight – Recycling					2.48
Bins provided on site – Gr	ound Flooi	•		3	3

FREQUENCY OF COLLECTION

GENERAL BINS COLLECTED ONCE A WEEK RECYCLING BINS COLLECTED ONCE A FORTNIGHT

Conclusion: Adequate Waste Capacity with bins to be provided.

2. BIN STORAGE AREA

2.1 BIN STORAGE LOCATIONS, SIZE & LAYOUT

Please refer to Annexure of this proposal for the locations of the bin stores & waste collection point and bin storage area dimensions.

2.2 BIN STORE CAPACITY – 20 SQM

3 x 660L (General) & 3 x 660L (Recycling) Sulo Wheel Bins 1x 660L Space for Future Organic Waste

Please refer to the attached plans for sizes of the proposed Bin Store.

- The Bin Store is designed to house 660L Sulo Type Bins.
- The enclosure is designed to for adequate movement and easy access for the bins when stored.
- Bin door tracks to be inset into slab and flush mounted for bin access.
- Bin store will have Graded Concrete Floor, MIN 100mm THK, draining to waste traps that are connected to the sewer system and NOT the soak well/storm water system.
- The Walls will be either brick or render, (solid and impervious) for easy cleaning
- Bin Store will be fitted with a Tap/Hose Cock
- The Bin Store will be Brick/Masonry Construction and will be fitted with Sliding Aluminium Screens for visual aesthetics. The screens will be a heavy duty type.
- Bin Store will be lit in accordance with the relevant Australian Standards if and where required

2.3 WASH DOWN AREA

Bin enclosure to be fitted with a Tap/Hose Cock.

2.4 VENTILATION

Bin enclosure to be naturally ventilated

2.5 VERMIN PREVENTION

Bin enclosure to be cleaned and maintained regularly to prevent vermin infestation.

3. BULK WASTE

Apartment generated bulk waste responsibility of Apartment owner/occupier. Waste removal to be coordinated by apartment owner/occupier and the City of Joondalup for collection.

4. MANAGEMENT OF THE BINS & MOVEMENT FOR COLLECTION

A Strata Company will be responsible for the overall management of the Bin stores and the movement for collection. This will include:

- The Strata Company will engage a Caretaker/Cleaner for the management of the Bins
- As part of Common Area Strata services, a Gardner will provide gardening services and maintenance to the apartment common areas. This will include Green waste removal if and when required
- Ensuring efficient use of the bins. IE, when one is full, another is used. This prevents a 'lazy' tenant and or owner simply cramming a bin to over full and will mitigate the risk of household waste overflowing on site.
- Ensuring the bins are returned to Bin Store on site once emptied by council collection, on the same day as collection.
- Separation of Materials. It is expected that owners will separate materials (which is now common practice with the advent of re-cycling). As above, the caretaker/complex maintained will ensure proper General/Recycling waste is undertaken.
- Cleaning, maintenance of the bins themselves.
- The proposed Strata Management Statement will form part of the Strata Title for this development. With copies of this WMP being distributed to the Apartment Owners.

It will incorporate this Waste Management Plan and any changes to this plan must be approved by the City of Joondalup.

5. LOCATION OF THE BIN STORES ON SITE

Bin Store is located to allow for easy access and use by the tenants/owners of the apartments. The location allows for minimum travel distance for tenants and for collection.

6. BIN COLLECTION & WASTE SERVICE PROVIDER

Bin store conveniently located in under croft area in centre of apartment complex.

Access for rubbish disposal (by resident) outside main foyer area.

Access for rubbish removal via service ramp into driveway area for contractor/COJ collection.

Acoustic treatment and separation to Apartment 02 walls to be included as part of design development.

Development will be accessed and certified by an acoustic engineer prior to building permit being issued.

The care taker will have a key access to the Bin Store and Complex and manage it during bin collection.

7. WASTE DISPOSAL AND MANAGEMENT DURING CONSTRUCTION.

During the construction period, a skip bins and a temporary compound will be will be provided on site for waste produced and serviced as required.

Some waste management contractors provide off site sorting and recycling to minimize landfill waste. These waste contractors will be selected to service during the construction phase where practical.

Sub-contractors will be responsible for presorting waste products into the appropriate bins where possible as this will reduce overall construction costs. This will be supervised by site management. Subcontractors are encouraged to use products that can be reused or easily sorted prior to landfill.

Waste water generated during wash down and clean-up of equipment used for brickwork and plastering has the potential to be high in PH and to be toxic to aquatic flora and fauna. To minimize the impacts associated with the cleanup of such equipment, the developer shall ensure that wastewaters are disposed of in accordance with DEC guidelines. This shall be communicated to all personnel during induction.

Used solvents and paints are to be stored in the site sheds/compounds provided by the lead contractor (the Builder) and removed by a licensed contractor as required.

All excess lime or cement is to be removed by the person who brought it on to site.

All subcontractors will be notified of their responsibility to maintain site cleanliness and adhere to waste management policies during construction. These obligations will be included in all subcontractor contracts.

A Construction Management and Waste Management Plan will be provided by the Lead Contractor prior to the Building Permit being issued.

8. EDUCATION & ONGOING MANAGEMENT

9. ANNEXURES AND REPORTS

Instructions on waste management are to be provided to the care taker/building manager for ongoing management and maintenance.

9.1 WASTE GENERATION RATES - COJ	02/04/2020
9.2 BRECHIN COURT WMP FLOOR PLAN APRIL 2020 HJA (DA005)	03/04/2020
9.3 660L CAPACITY SULO BIN SULO	01/05/2019

Giles Harden Jones

From:	Carroll-Vianna, Leonie <leonie.carroll-vianna@joondalup.wa.gov.au></leonie.carroll-vianna@joondalup.wa.gov.au>
Sent:	Tuesday, 17 March 2020 15:27
То:	Giles Harden Jones
Subject:	MUD Waste Guidelines

Good afternoon Giles,

Thank you for your call in regards to the City of Joondalup Waste Guidelines for MUD's and the proposed development by HJ Architects.

The City calculates the required amount of receptables for a MUD on the below estimate of weekly waste and fortnightly recycling collected.

City Waste Services estimate of waste capacity required for a unit				
No. of bedrooms per unit Waste: Weekly capacity Recycling: Fortnightly capacity				
One	80L	40L		
Тwo	110L	80L		
three	140L	240L		

Proposed HJ	Proposed HJ Architects MUD – waste receptacle requirements		
Waste	3 x 660L		
Recycling	2 x 660L		
Green waste	1 x 240L or 1 x 660L Consider allowing space in the bin store for possible future requirements of residents or changes to the gardening contractors service		

Regards,

Leonie Carroll-Vianna

Waste Education Officer City of Joondalup

Tel: 08 9400 4063 Fax: 08 9300 1383 Email: <u>Leonie.cv@joondalup.wa.gov.au</u> Follow:



A Global City: Bold | Creative | Prosperous

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1 x STEADYRACK IN ALL STORES



COMMON AREA - ARBORS OVER SEATED AREA

44 A205 A

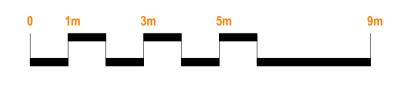
 (\mathbf{F})

BOUNDARY 10797 COMMON AREA LOT 93 ຈ^{ເຈົ້} 1800H BOUNDARY FENCE + RETAINING WALL BELOW EAST N.G.L 22.60 BOUNDARY LOT 105 CAPE PLAN 9018 (A) BB A302A ARBORS OVER COMMUNAL AREA ===== BUILT IN BENCH 0 **B** 33 C<u>OMMUNA</u>L <u>OPEN</u> SPACE 130 SQM F.L 21.300 \rightarrow -----NEIGHBORING N.G.L 22.60 BUILT IN BENCH С DRIVENAY 1800H SOLID WALL COURTYARD D

NORTH

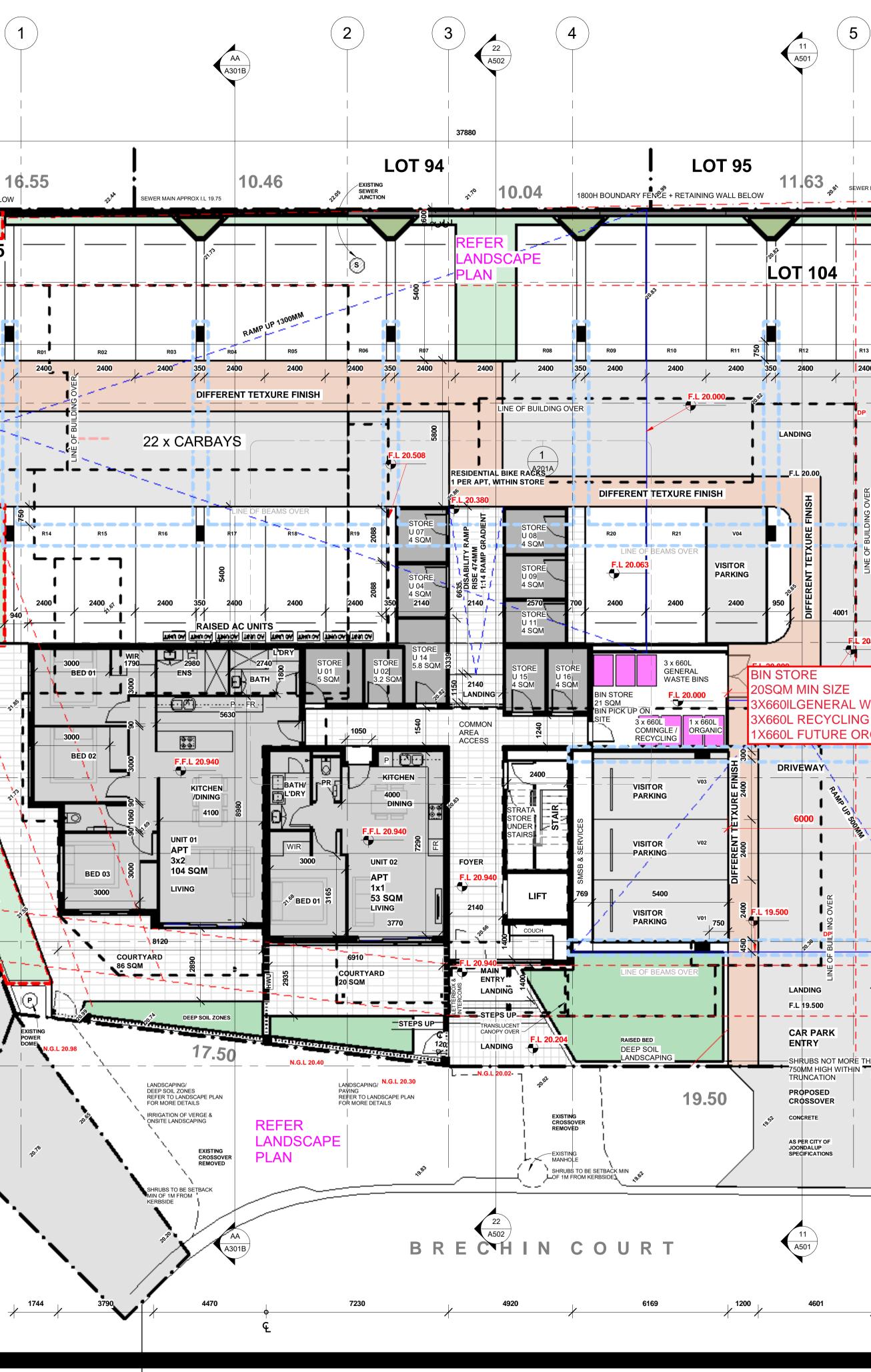
1. GROUND FLOOR

1:100



1:100 @ A1 1:200 @ A3

N.G.L 21.10



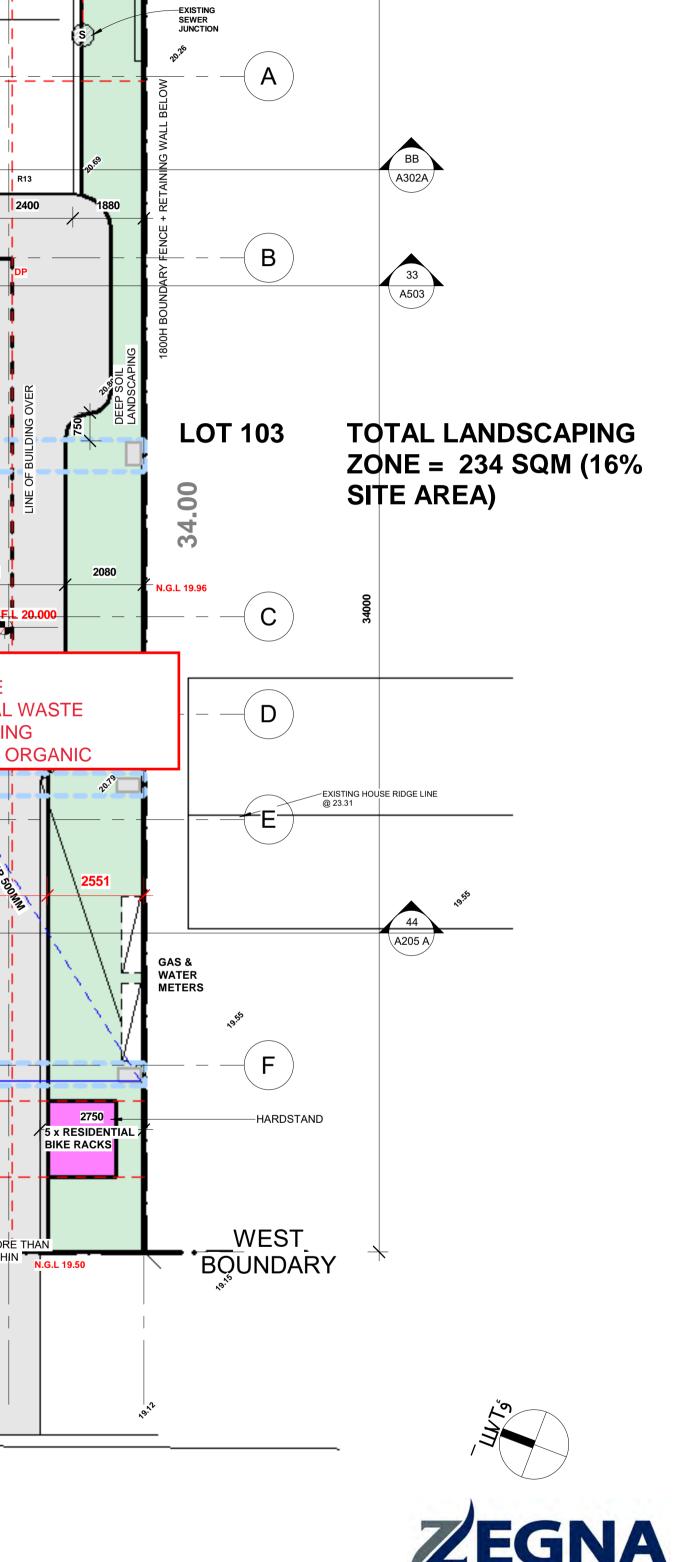
33 A503 LOT 103 **TOTAL LANDSCAPING** ZONE = 234 SQM (16% 34.00 SITE AREA) 2080 - N.G.L 19.96 C) $\left(\mathsf{D} \right)$ 660ILGENERAL WASTE 1X660L FUTURE ORGANIC EXISTING HOUSE RIDGE LINE PP A205 A GAS & WATER METERS (F) 10.30 **ь** 2750 _ -HARDSTAND BIKE RACKS • WEST • BOUNDARY SHRUBS NOT MORI 750MM HIGH WITHIN N.G.L 19.50 **EGNA** BUILDING zegna.net.au 2750 HARDENJONESARCHITECTS www.hjarchitect.com.au 8-10 BRECHIN COURT, DUNCRAIG DEVELOPMENT APPLICATION DA005 - 23/03/2020 A201 2/04/2020 11:56:19 AM

ENCLOSED BIN STORE & VERGE BIN COLLECTION HARDSTAND 8-10 BRECHIN COURT, DUNCRAIG 11.63 SEWER MAIN APPR JDAP/ DA005 02/04/2020

9.2 WASTE MANAGEMENT PLAN

GROUND FLOOR PLAN

5





660 LITRE CONTAINER: A FRESH LOOK AT AN OLD FAVOURITE



EASY HANDLING MAXIMUM SAFETY ATTRACTIVE DESIGN

Easy handling

- Easy grip handles on all sides
- □ For easy filling
- □ For safe manoeuvring
- Compatible with identification and weighing systems

Reinforced base

- Ensures stability even when fully loaded
- Very stable wheel assemblies
- Reinforced base, front and rear panels for greater stability

Maximum safety

- User friendly
- Foot pedals on the front wheels lock the bin in position
- Directional locks are ideal for use with towing equipment







660 litre Container

Material

Polymer components:

- Injection moulded from specially designed HDPE
- Resistant to decay, frost, heat and chemicals
- Special UV-stabilisers provide excellent ageing characteristics
- Corrosion resistant steel components
- Noise reduction:
- Quiet-running tyres
- Long service life:
- High quality materials
- Most advanced manufacturing processes
- Withstands exposure to high mechanical stress levels
- Recycling:
- All container parts are recyclable

Design

ADVANTAGES FOR THE USER:

- Easy handling, even with heavy loads
- Easy grip handles on all sides
- Stable and light weight lid
- User-friendly design
- Various wheel assembly configurations for different applications
- Water drainage plug as standard⁺
- Compatible with identification and weighing systems
- Suitable for all lifting equipment in accordance with EN 840
- Easy to clean due to smooth and rounded internal corners
- Rounded lid profile for improved rainwater dispersal
- Fitted as standard with chip nest in accordance with RAL GZ 951/1
- Reinforced base, front and rear panels for greater stability

Accessories

For accessories and special design variations such as lid apertures, locks and towing brackets, please refer to the separate accessories sheet for 4-wheeled containers



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Tel: +61 (0) 7 - 3725 5000 Fax: +61 (0) 7 - 3725 5099

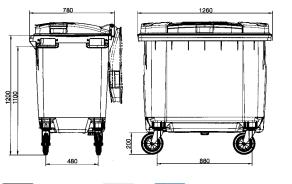
Quality

- Certified according to DIN EN 840 and RAL GZ 951/1
- Constant quality control through manufacturers laboratory as well as independent institutes

Dimensions - Weights - Standards

Nominal volume:	660 litres
Net weight:	43 kg
Max. load:	265 kg
Permitted total weight:	310 kg

Measurements to be used as a guide only - variations will occur



Note: Certification and Quality Marks depicted in this brochure are registered to SULO Umwelttechnik GmbH & Co. KG

Colours

- Standard colours: green, blue, yellow
- Special colours are available on request
- All additives are cadmium free and environmentally friendly



Imprints and markings

- Manufacturer, year of manufacture, material
- Nominal volume, max. permitted total weight
- "No hot ashes" symbol
- EN 840, RAL markings
- Individual markings with imprints, hot-foil printing or adhesive labels available on request*

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ATTACHMENT 9 - TRAFFIC IMPACT STATEMENT

Transport Impact Statement

Project:	8-10 Brechin Court, Duncraig
	Proposed Residential Apartments
Client:	Zegna Pty Ltd
	c/o: Harden Jones Architects
Author:	Keli Li
Version:	1
Document #	1812004-TIS-001

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Document Status

Version	Document Status	Prepared By	Reviewed By	Approved By	Date
1	Client Review	K Li	L Dawson	L Dawson	07/12/2018

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File Reference: Y:\Jobs Active 2018\T&T - Traffic and Parking\Zegna Pty Ltd_8 &10 Brechin Court TIS_1812004\Reports\Zegna Pty Ltd_8-10 Brechin Cout_TIS_v1.docx



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1. Summary

Shawmac was commissioned to assess the traffic impacts associated with parking, access and traffic generation from the proposed residential apartments located at 8-10 Brechin Court, Duncraig.

This Transport Impact Statement has been prepared in accordance with the WAPC Transport Impact Assessment Guidelines for Developments: Volume 4 – Individual Developments (2016), for lodgement with the Development Application to the City of Joondalup.

The following conclusions have been made in regards to the proposed development:

- The surrounding roads and intersections can accommodate the predict increase in traffic from the proposed development;
- The supply of car parking spaces and operation of the facility is considered adequate to accommodate the parking demand;
- The proposed parking layout is generally compliant with AS2890.1 and the small section of narrowed blind aisle will not affect vehicles manoeuvring into and out of the car bay adjacent to the blind aisle;
- The site is well serviced by public transport with train and bus station accessible within walking distance from the site;
- The existing pedestrian/cyclist infrastructure in the vicinity of the site is considered to be adequate to facilitate the safe movement of pedestrians and cyclists around the proposed development; and
- The location and dimension of the proposed access is considered acceptable and no adverse impacts and safety issues associated with the access are identified.



2. Introduction

2.1. Background

Shawmac has been commissioned to prepare a Transport Impact Statement to assess the potential traffic impacts, car parking and access issues associated with the proposed residential apartment building to be located at 8-10 Brechin Court, Duncraig, in the City of Joondalup.

The proposed development is a three-storey residential apartment building with its ground level mainly designed for carpark. The proposed site plan is shown in **Appendix A**.

2.2. Site Location

The site is located as shown in Figure 1.

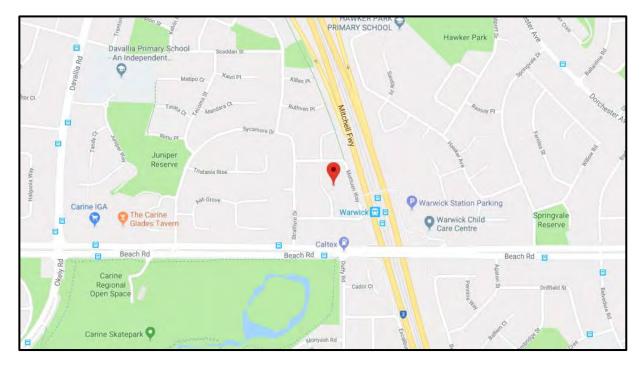


Figure 1 - Site Location



The subject site currently developed as two detached residential houses as shown in the aerial view in Figure 2.

Figure 2 - Aerial View

2.3. Reference Information

In undertaking the study, the information listed below was referenced.

- WAPC Transport Impact Assessment Guidelines for Developments: Volume 5 Individual Developments
- MRWA Functional Hierarchy Criteria;
- Livable Neighbourhoods Guidelines 2009;
- Australia Standard AS 2890.1-2004 Parking Facilities Off-street Car Parking;
- Trip Generation 9th edition, 2003 Institute of Transportation Engineers, Washington, USA;
- Guide to Traffic Generating Developments Version 2.2, October 2002 Roads and Traffic Authority, New South Wales;
- City of Joondalup Town Planning Scheme No.3.



3. Site Proposal

3.1. Land Use

It is proposed to develop the site as a 16-unit residential apartment building with a 35-bay carpark. The proposal will also modify the existing kerb line in the Brechin Court cul de sac with 2 indented parking bays.

3.2. Planning Framework

The subject site is zoned for "Residential" R20/60 as per City of Joondalup zoning scheme.

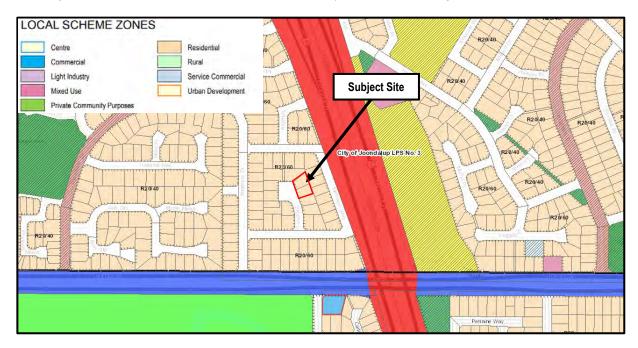


Figure 3 - Zoning Map - Extract from City of Joondalup LPS3

3.3. Major Attractors and Generators of Traffic

The development site is mainly a traffic generator. The main generator expected to influence traffic flows are likely to be to and from local centres and primary distributor roads.



4. Existing Situation

4.1. Existing Roads

An extract of the Main Roads *Road Information Mapping* web tool (Figure 4) shows the road hierarchy surrounding the site.

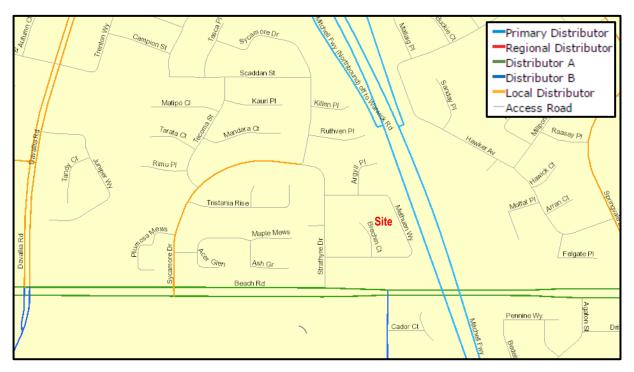


Figure 4 - Road Hierarchy

Brechin Court

Brechin Court is the western boundary of the site. It is a two-way, single carriageway cul-de-sac. Brechin Court is classified as an Access Road under the MRWA Functional Road Hierarchy. Brechin Court operates with a 50km/h speed limit.

Methuen Way and Strathyre Drive

Methuen Way and Strathyre Drive are both Access Roads in the vicinity. Both Methuen Way and Strathyre Drive are two-way, single carriageway road. Methuen Way intersects Strathyre Drive via a full movement T-junction and Strathyre Drive intersects Beach Road via a left-in-left-out intersection. The Methuen Way-Strathyre Drive route provides the most convenient connection from the proposed site to higher hierarchy roads (Beach Road). Methuen Way and Strathyre Drive both operate with a 50km/h speed limit.



Sycamore Drive

Sycamore Drive connects to the northern end of Strathyre Drive and loops back to intersect Beach Road west of Strathyre Drive / Beach Road intersection. As Strathyre Drive / Beach Road intersection is a left-in-left-out intersection, westbound vehicles from the site will utilise Sycamore Drive / Beach Road intersection. Sycamore Drive operates with a 50km/h speed limit.

Beach Road

Beach Road is a District Distributor A Road located approximately 150m south of the site. Beach Road operates with a 70km/h speed limit.

4.2. Road Hierarchy vs Actual Flows

The latest traffic volumes of surrounding roads were derived from the City of Joondalup and the latest MRWA SCATS data (October 2018). Detailed traffic count data is included in **Appendix B**. Traffic data for Brechin Court and Methuen Way are not available from the City of Joondalup. Based on the residential density, it is assumed that Brechin Court and Methuen Way carry 1,000 vpd and 200 vpd respectively.

 Table 1 compares existing traffic volumes with MRWA and Liveable Neighbourhood Guideline indicative traffic volumes based on road classifications.

Road Name	Road Features	MRWA Classification / Indicative Daily Volume (vpd)	Liveable Neighbourhood Classification / Indicative Daily Volume (vpd)	Daily Traffic Volume	Source
Brechin Court	Two-way single- carriageway	Access Road / >3,000	Access Street D / 1,000	200	Assumed
Methuen Way	Two-way single- carriageway	Access Road / >3,000	Access Street C / 3,000	1,000	Assumed
Strathyre Drive	Two-way single- carriageway	Access Road / >3,000	Access Street C / 3,000	624	City of Joondalup
Sycamore Drive	Two-way single- carriageway	Access Road / >3,000	Access Street C / 3,000	800	Assumed
Beach Road	Four-lane dual carriageway	District Distributor A / >8,000	Integrator Arterial A / <25,000	14,938	MRWA SCATS (2018)

As shown, all roads are operating near their indicative traffic flow ranges for their respective classifications.

4.3. Changes to the Surrounding Network

There are no known changes to the adjacent network that have the potential to affect the assessment.



5. Transport Assessment

5.1. Assessment Years

The development is assessed based on current network conditions. Given the surrounding road network being predominantly established, the current network conditions should be representative of 10 year after full opening.

5.2. Time Periods for Assessment

The time periods adopted for assessment are the peak hours on the adjacent road network (8:00-9:00 and 17:00-18:00), as these represent the worst-case conditions on the wider road network.

5.3. Development Generation

In order to estimate the impact of traffic generated by the proposed development reference was made to the Institute of Transportation Engineers "Trip Generation" 9th edition and WAPC Transport Impact Assessment Guideline. The trip generation has been determined for both daily and peak hour. Predicted trip generation are summarised in **Table 2**.

Land Use	Units	Quantum	Trip Generation Rate			Estim	Source		
			ADT	AM Peak	PM Peak	ADT	AM Peak	PM Peak	
Residential	No. of Dwellings	16	6.59	0.8	0.8	105	13	13	ITE/WAPC
Total (round-up)						105	13	13	

Table 2 - Predicted Weekday Trip Generation

It is estimated that the proposed development will generate an additional 105 vehicle movements per day with 13 during weekday AM and PM peak hours.



5.4. Distribution

Based upon the existing traffic patterns in the area and spatial distribution of adjacent land uses, 70% traffic generated from the site are likely turn left onto Beach Road via Strathyre Drive.

As the Beach Road / Strathyre Drive intersection is a left-in-left-out intersection, traffic destined to the west and northwest (estimated to be 30%) will most likely making right-turn at Beach Road / Sycamore Drive intersection and traffic returning from the east would utilise the right-turn opportunity at the Beach Road / Sycamore Drive intersection.

It is noted that instead of using Beach Road, traffic generated from the site may also access the northern distributor road, Warwick Road, via the local access roads, however this route requires vehicles making 8 turning movements in the local access road network and therefore it is considered unlikely to be used by most of traffic generated from the site.



The additional traffic volumes distributed to the network are shown in Figure 5.

Figure 5 - Traffic Distribution for Site Traffic



5.5. Impact on Roads

The site generated traffic is considered low (13 vehicles movement during peak hours) and the road network is considered to have sufficient capacity to accommodate the generated traffic to from the proposed development.

5.6. Impact on Intersections

A general guide from WAPC Transport Impact Assessment Guideline indicates the following:

- An increase in traffic of less than 10% of capacity would not be likely to have a material impact on any particular section of road; and
- An intersection would generally be considered to be materially affected if flows on any leg increase by more than 10% or any individual movement by more than 20%.

Based on the predicted traffic distribution, additional traffic volume distributed to the most affected intersection (Beach Road / Strathyre Drive intersection and Beach Road / Sycamore Drive intersection) will be less than 13 vehicle per hour. This is within the standard deviation of traffic volumes turning at the intersection and therefore does not warrant capacity assessment. Therefore, intersections in the vicinity are considered to have sufficient capacity to cater for the projected increase in traffic.



6. Public Transport

6.1. Existing Public Transport Services

Figure 6 summarises the public transport network adjacent to the site. The site is within 300m walking distance to Warwick Bus and Train Station. Joondalup Line train service as well as 17 bus services operate from this station.

It can be concluded that the site is well serviced by public transport.

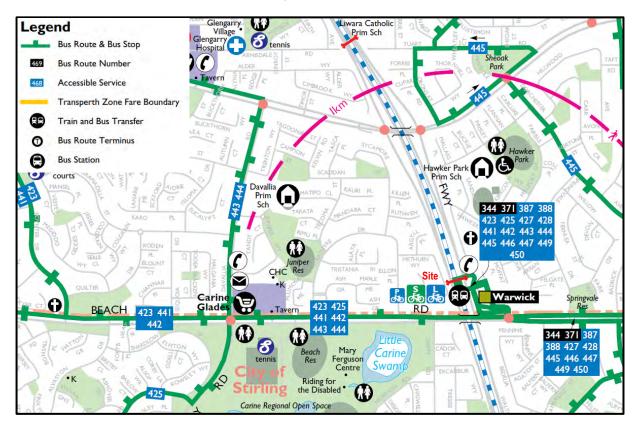


Figure 6 - Public Transport Network



7. Pedestrian and Cycle Networks

7.1. Existing Cycle and Pedestrian Networks and Facilities

Existing pedestrian and cycle facilities in the general vicinity of the site are shown in **Figure 7**. There are no onroad and off-road footpath and bicycle facilities on Brechin Court, Methuen Way and Strathyre Drive, these roads create an attractive network of low-speed, low volume streets which will support active transport connections to and from the site. The most pedestrian route from the site would be travelling to and from Warwick Train Station. A pedestrian overpass has been constructed over Michell Freeway to connect the station and Methuen Way.

It can be concluded that the existing facilities are sufficient to service the proposed development.

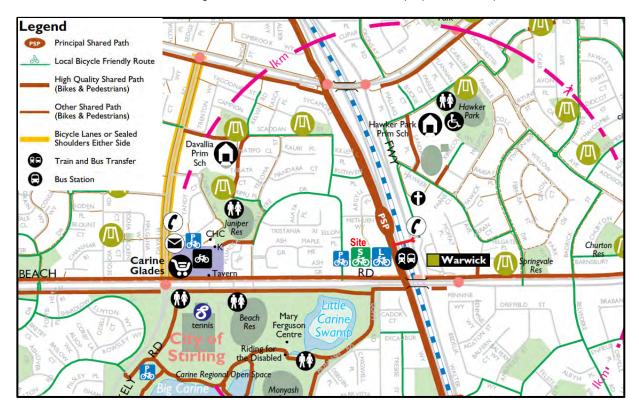


Figure 7 - Existing Pedestrian and Cyclist Facilities



8. Parking

8.1. Parking Provision

The City of Joondalup Local Planning Scheme No. 3 refers to the WAPC Residential Design Codes (R-Codes) for parking requirements for residential development. Under the R-Codes, the proposed apartment development requires a minimum of 16 bays for residents and 4 bays for visitors. The parking requirements and provision are outlined in **Table 3**.

Table 3 - Car Parking Requirements

Land Use	Parking Rate	Quantum	Minimum Parking Requirement	Parking Provision
Residential	1 bay per 1-2 bedrooms dwelling 1.25 bay per 3+ bedrooms dwelling	16 x 2-bedroom dwellings	16	30
Residential Visitor	1 bay per 4 dwelling required	16 dwellings	4	5
		Total	20	35
	Bike Stor	rage		
Residential	1 per 3 dwellings	16 dwellings	6	16
Residential Visitor	1 per 10 dwellings	16 dwellings	2	2
		Total	8	18

The development satisfies the requirements for car parking and bike storage. Three of the visitor bays are provided as indented street bays on Brechin Court.

8.2. Parking Layout

The standard bay dimensions for a Class 1A car parking facility according to AS2890.1 (Residential, domestic and employee parking) is shown in **Table 4**.

Category	Clause	Dimension Required	Dimension Provided	Compliant
Ninety Degree Bays	AS2890.1 - Figure 2.2	5.4 x 2.4 x 5.8m aisles.	5.4 x 2.4x 5.8 aisles. (Minimum dimension)	Yes
Parallel Parking Bays	AS2890.1 - Figure 2.5	6.2 x 2.1 (3.6m aisle)	6.2 x 2.4 (3.6m aisle) (Minimum dimension)	Yes
Blind Aisle Extension	AS2890.1 - 2.4.2c	1.0m	1.0m, and narrowed to 0.5m at the back of the aisle.	No.
Additional space for bays against a wall of fence	AS2890.1 - 2.4.2d	0.3m	0.3m	Yes

Based on the site plan provided, the dimensions of the proposed standard bays comply with the Australian Standards requirements. A Swept path analysis has been undertaken and has indicated satisfactory manoeuvring in and out of the bay adjacent to the blind aisle and two-way corner manoeuvring. Swept path diagrams are attached in **Appendix C**.



9. Site Access

9.1. Vehicle Accesses

The City of Joondalup Crossover Specification sets out the requirements for crossovers. For multiple dwelling driveways, the specification requires:

- Only one single driveway servicing multiple dwelling development is provided per street or right-of-way frontage; and
- No driveway is wider than 6.0m at the street boundary.

The development has one two-way crossover with a 6.0m width at the property boundary which is compliant with the City of Joondalup requirements.

9.2. Service Vehicles

Waste collection will be managed onsite via a hardstand area adjacent to the crossover which is designated for bin placing. Waste collection vehicle will block half of the crossover during collection. Cars can still manoeuvre around the waste truck during collection time. It is recommended that rubbish collection takes place outside of peak hours to reduce conflict. General deliveries can use visitor car bays in the carpark.

9.3. Access Vehicle Sight Distance

Sight distance from the car park egress along the street is defined in Figure 3.2 of AS2890.1 which is reproduced in **Figure 8**. A desktop review concluded that the minimum sight distance is achieved for the crossover.

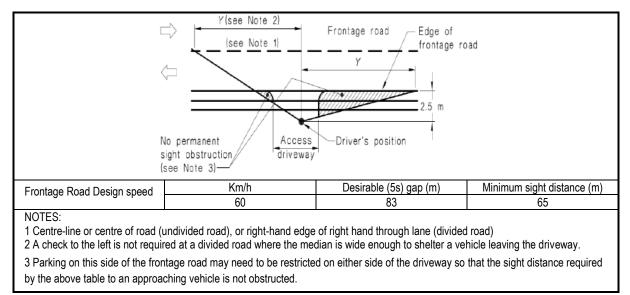


Figure 8 - Sight Distance Requirements



9.4. Access Pedestrian Sight Distance

The Australian Standard AS2890.1:2004 also provides details for sight lines and distances for pedestrian movements across an access to a car park. Those details are shown in the AS2890.1 Figure 3.3 extract on **Figure 9**.

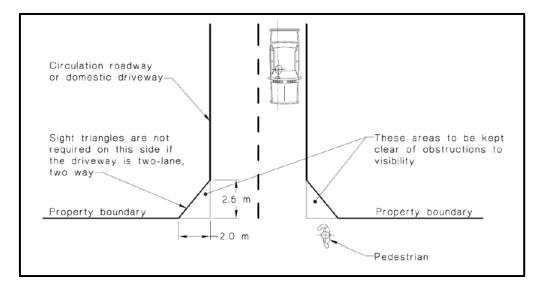


Figure 9 - AS 2890.1 Requirements for Pedestrian Sight Lines

The site plan does not indicate any sight line obstructions at the vehicle access. It is concluded that minimum required pedestrian sight distance is achievable.



10. Site Specific or Safety Issues

10.1. Crash History

Crash data for surrounding roads were sourced from MRWA Crash Analysis Reporting System (CARS) for the 5year period ending 31/12/2017 and the report indicated no crashes over the 5-year period. The report is summarised in **Table 5**.

Location	Number of Crashes	MR Nature	Severity		
Brechin Court SLK 0.00 (Methuen Way) to 0.11 (End Road)	0	N/A	N/A		
Methuen Way SLK 0.00 (Strathyre Drive) to 0.46 (Brechin Court)	1	1 "Hit Animal"	1 "Property Damage - Minor"		
Strathyre Drive SLK 0.00 (Beach Road) to 0.09 (Methuen Way)	0	N/A	N/A		
Strathyre Drive / Beach Road Intersection	1	1 "Other/Unknown"	1 "Property Damage - Major"		

Table 5 - Crash History

As the proposed development is only predicted to generate a small number of vehicle movements, traffic generated from the site is unlikely to alter the existing crash pattern.



11. Conclusion

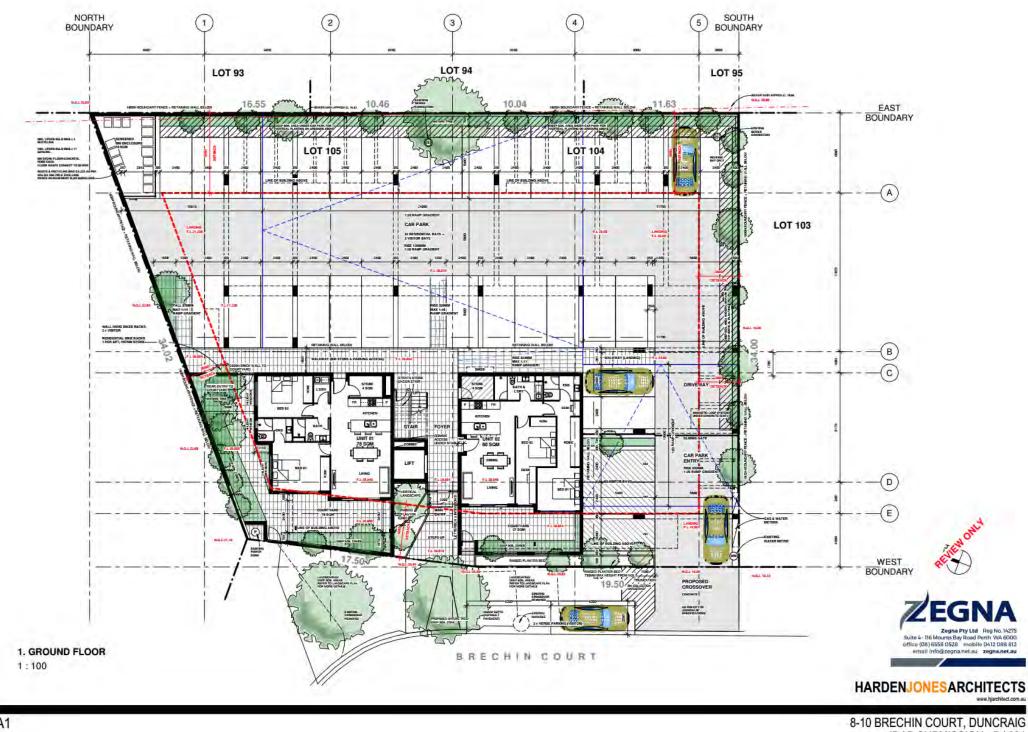
Based on the assessment of traffic generation it is predicted that there will be no unacceptable impact on the adjacent road segments.

With respect to the proposed residential apartment, the following is concluded;

- The surrounding roads and intersections can accommodate the predict increase in traffic from the proposed development;
- The supply of car parking spaces and operation of the facility is considered adequate to accommodate the parking demand;
- The proposed parking layout is generally compliant with AS2890.1 and the small section of narrowed blind aisle will not affect vehicles manoeuvring into and out of the car bay adjacent to the blind aisle;
- The site is well serviced by public transport with train and bus station accessible within walking distance from the site;
- The existing pedestrian/cyclist infrastructure in the vicinity of the site is considered to be adequate to facilitate the safe movement of pedestrians and cyclists around the proposed development; and
- The location and dimension of the proposed access is considered acceptable and no adverse impacts and safety issues associated with the access are identified.

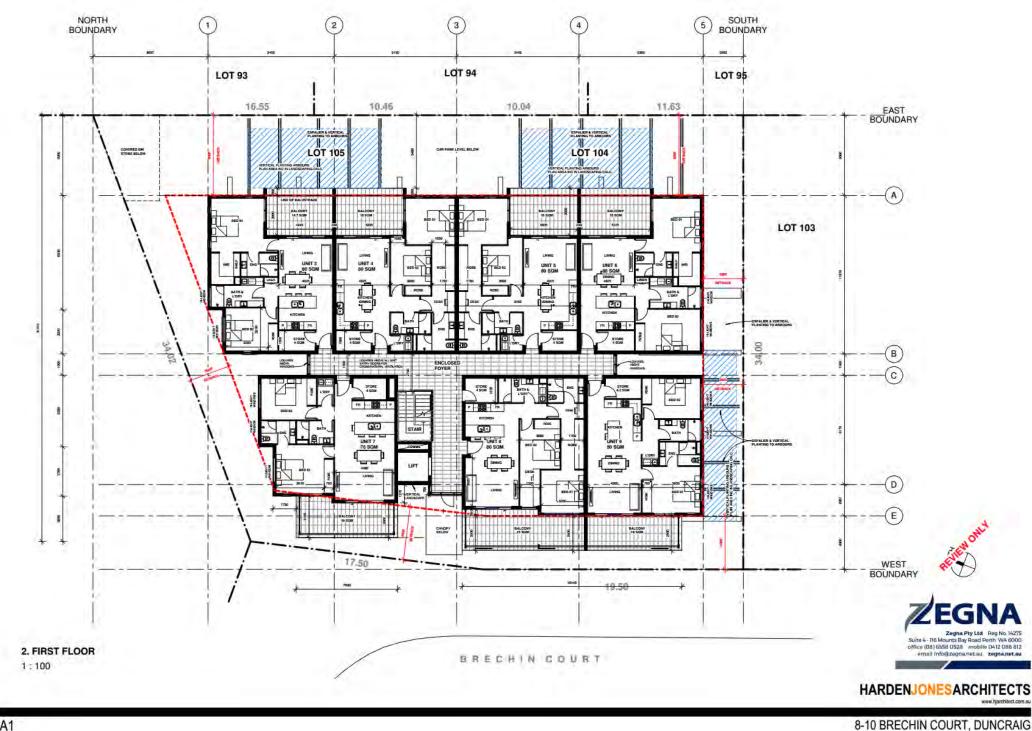


Appendix A - Site Layout



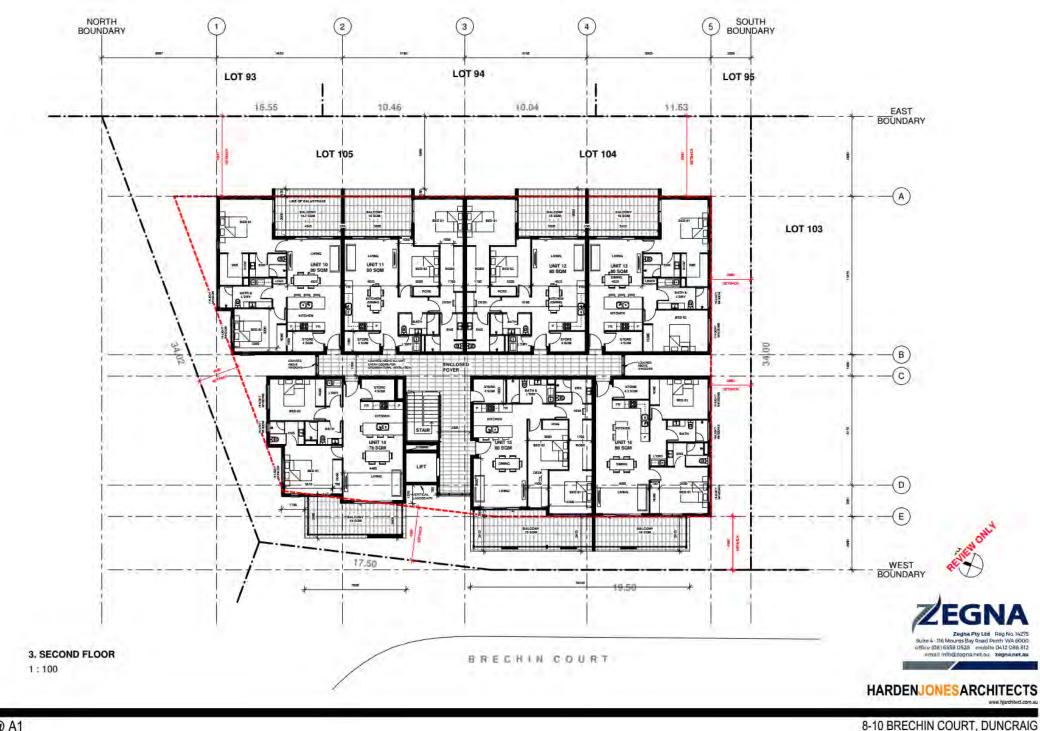
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JDAP SUBMISSION - DA001 A202



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JDAP SUBMISSION - DA001 A203 3/22018/15855AM



Appendix B - Traffic Count





Average Hourly Volume from (Monday 22nd October to Friday 26th October 2018) fe

								Ť	e								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1:00	6	4	1	1	0	4	6	4	2	0	0	0	0	3	4	3	40
2:00	2	1	0	1	0	1	2	2	1	0	0	1	0	2	2	2	18
3:00	1	1	0	1	0	0	2	1	2	0	0	0	0	2	1	2	13
4:00	1	2	1	1	1	1	2	1	1	1	1	0	0	1	4	2	20
5:00	6	3	6	2	2	4	8	2	5	2	4	1	0	1	8	7	61
6:00	58	24	15	5	6	20	25	12	10	10	15	2	0	2	30	24	260
7:00	129	73	49	20	9	38	70	37	26	30	39	10	0	10	118	63	720
8:00	228	211	111	45	22	77	103	73	52	94	125	29	0	21	181	151	1522
9:00	240	231	89	83	51	156	157	132	80	111	162	59	0	41	280	168	2039
10:00	192	132	58	50	33	109	129	93	66	60	66	49	0	35	122	127	1321
11:00	180	106	40	54	30	96	140	93	78	51	52	59	0	34	117	111	1242
12:00	178	93	34	54	32	105	152	119	78	48	49	69	0	43	109	102	1266
13:00	162	79	28	58	30	111	151	103	79	46	51	65	0	49	113	103	1228
14:00	159	86	26	57	32	103	140	96	77	38	43	62	0	39	116	92	1166
15:00	184	105	35	79	40	122	180	139	96	47	67	78	0	60	165	103	1501
16:00	227	183	45	159	78	215	207	169	113	69	102	107	0	82	181	168	2107
17:00	199	159	46	174	94	189	238	233	140	68	69	95	0	94	212	164	2173
18:00	179	132	37	179	91	188	238	246	166	69	80	110	0	119	200	141	2175
19:00	153	100	28	84	39	145	178	164	103	45	58	77	0	75	156	102	1508
20:00	107	54	18	42	17	68	97	69	60	27	34	45	0	36	87	59	822
21:00	72	39	11	26	7	37	75	41	41	12	21	23	0	23	47	36	512
22:00	49	23	7	20	5	32	46	22	23	7	12	13	0	21	32	22	335
23:00	30	15	3	10	2	16	33	21	14	4	7	6	0	13	23	13	212
24:00:00	15	7	2	4	2	9	17	9	7	2	3	4	0	6	13	7	106
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Daily	2758	1864	691	1210	623	1846	2397	1882	1321	843	1062	964	964	814	2324	1770	
AM	240	231	89	83	51	156	157	132	80	111	162	59	110	41	280	168	
PM	179	132	37	179	91	188	238	246	166	69	80	110	59	119	200	141	



Intersection Volumes

					Davall	ia Road					
						964	1904	1770			
						110	149	141			
	964	59	110	L		59	273	168			
	4622	312	471	т		R	Т	L			
Beach Road	691	37	89	R							Beach Road
							R	80	166	1321	
			L	Т	R		Т	289	484	4278	
			41	134	51		L	280	200	2324	
			119	270	91						
			814	1832	623						
					Okel	y Road					

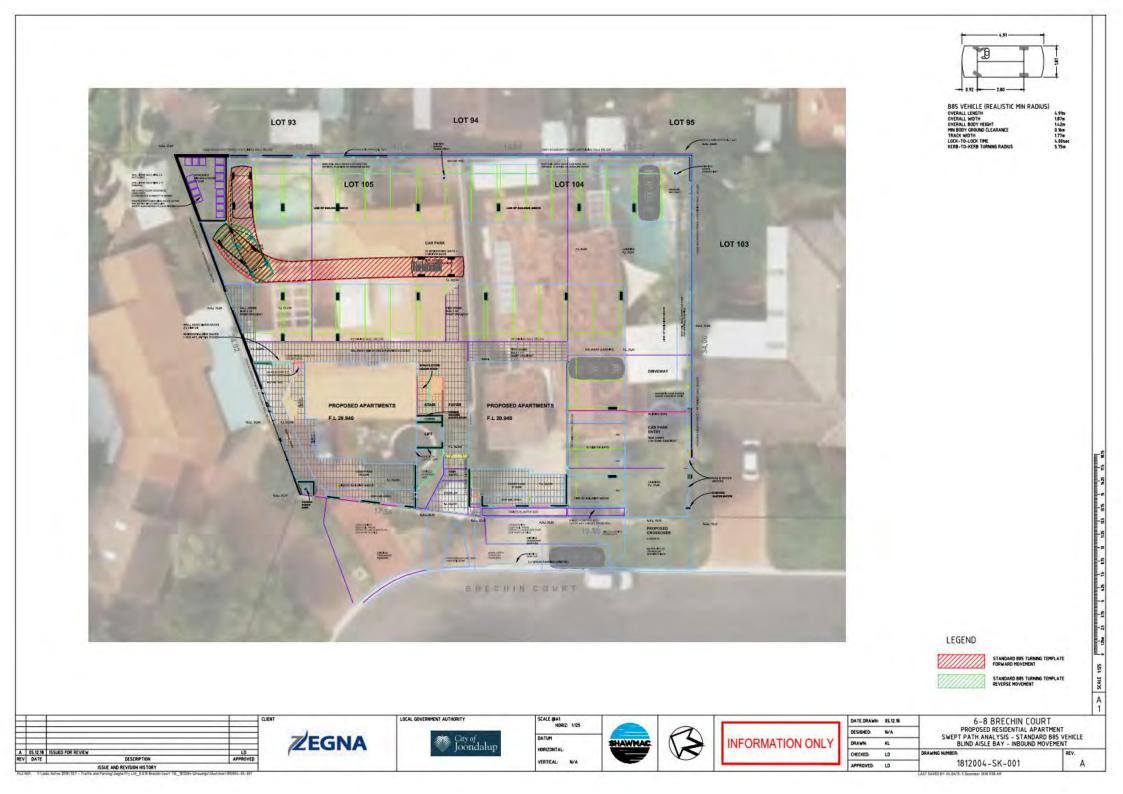
Two-way Daily and Peak Hour Volume

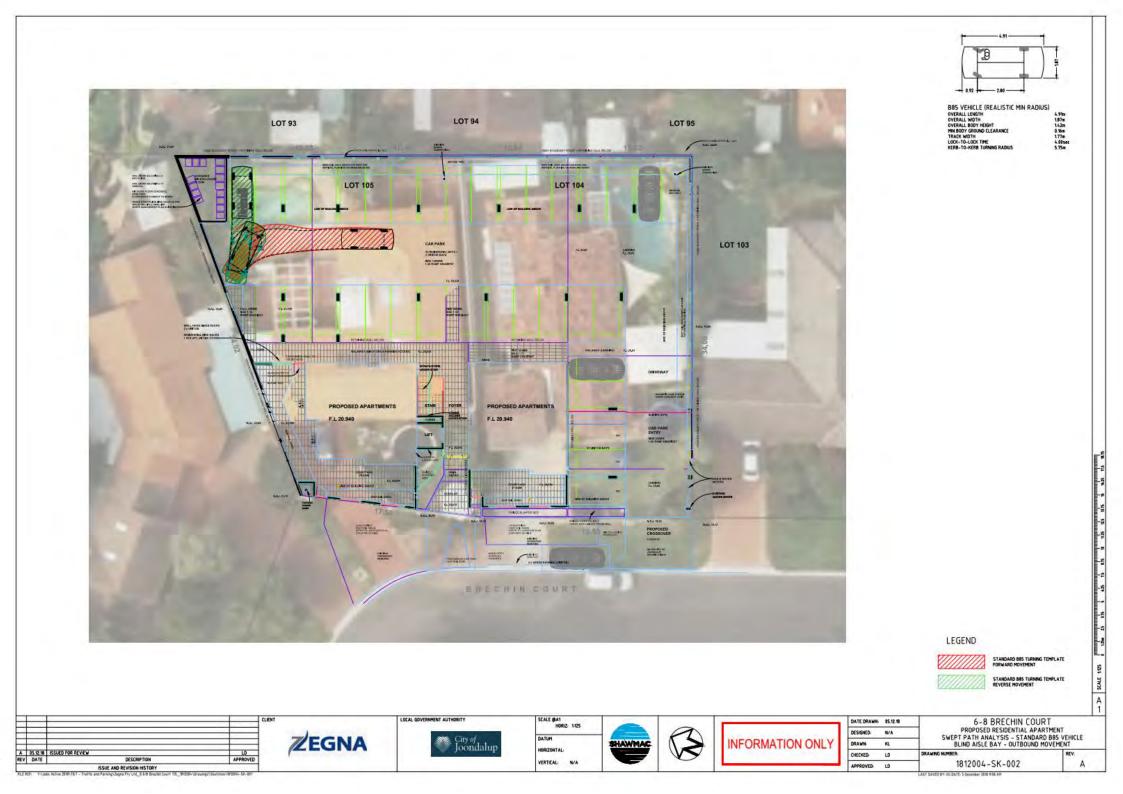
Daily	AM PEAK	PM PEAK
12334	1058	1121
14938	1338	1394
8189	867	867
8756	823	895
	12334 14938 8189	12334 1058 14938 1338 8189 867

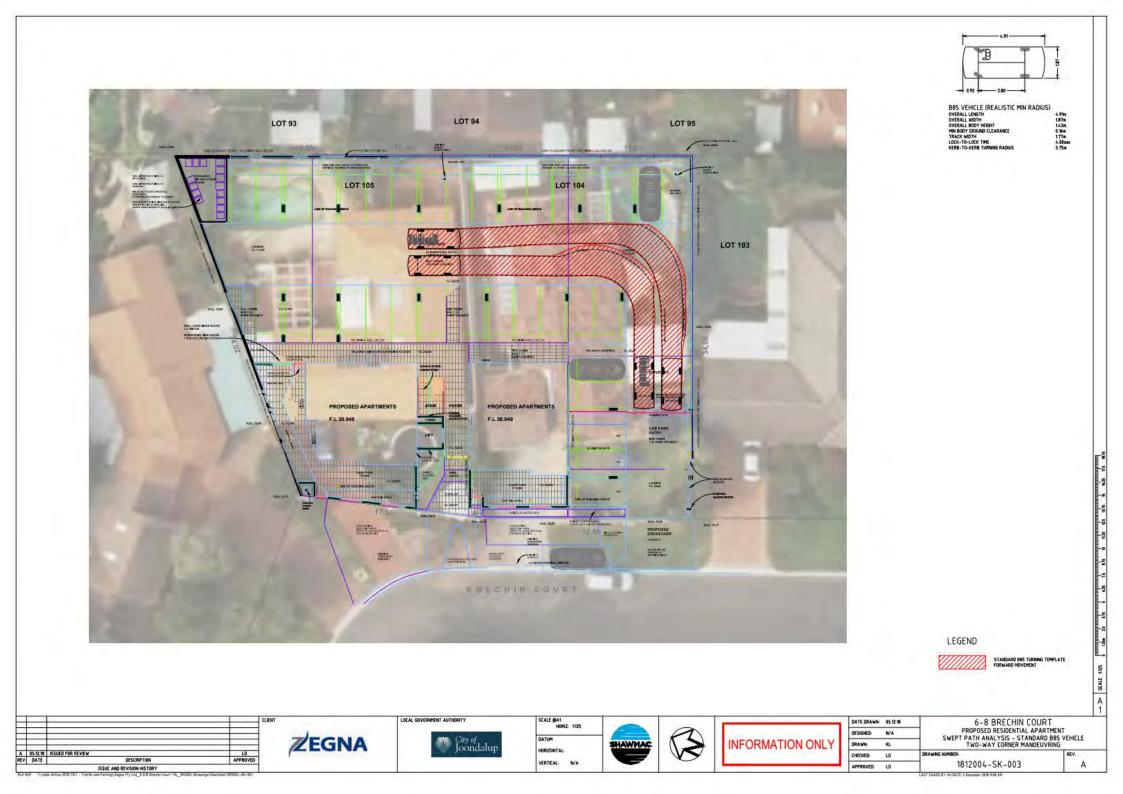




Appendix C – Swept Path Diagrams







HARDENJONESARCHITECTS

Suite 8 300 Rokeby Road Subiaco Western Australia 6008 T: + 61 8 9380 9900 E: admin@hjarchitect.com.au www.hjarchitect.com.au

Architects Board Registration 2552

HJ Architects Pty Ltd ATF Harden Jones Family Trust ABN 33 066 236 251

City of Joondalup PO Box 21 Joondalup WA 6919

Att: Planning

18/12/2018

RE: 8 & 10 BRECHIN COURT, DUNCRAIG JDAP APPLICATION. FOR DEVELOPMENT APPROVAL

Dear City of Joondalup

Please find attached the following documents that accompany the DA lodgement:

 Planning Application Forms CoJ Application for Development Approval Form CoJ Development (Planning) Application Checklist CoJ Environmentally Sustainable Design Checklist DAP Form 1 - Lot 104 (No. 8), Lot 105 (No.10) Certificate of titles - 8 & 10 Brechin Court 		10/12/2018 13/12/2018 14/12/2018 10/12/2018
 Primary HJA Documents Development Application Drawings & Perspectives 	DA001	18/12/2018
 Supporting Documents Waste Management Plan & Annexures - HJA Planning Report - TP Planning & Development Traffic Impact Statement Report - SHAWMAC Landscape Plan - Newforms Landscape Deep Soil Root Zone Plan - Newforms Landscape 	REV A REV001 REV A REV A	18/12/2018 17/12/2018 07/12/2018 12/12/2018 12/12/2018

If there are any questions or further information required, please do not hesitate to contact me.

Yours Faithfully.

G. HARDEN **BINES**

Giles Harden Jones HARDEN JONES ARCHITECTS

ATTACHMENT 10 - ENVIRONMENTALLY SUSTAINABLE DESIGN CHECKLIST

8 & 10 BRECHIN COURT, DUNCRAIG DA SUBMISSION 13/12/2018



Environmentally Sustainable Design – Checklist

Under the City's planning policy, *Environmentally Sustainable Design in the City of Joondalup*, the City encourages the integration of environmentally sustainable design principles into the construction of all new residential, commercial and mixed-use buildings and redevelopments (excluding single and grouped dwellings, internal fit outs and minor extensions) in the City of Joondalup.

Environmentally sustainable design is an approach that considers each building project from a 'whole-of-life' perspective, from the initial planning to eventual decommissioning. There are five fundamental principles of environmentally sustainable design, including: siting and structure design efficiency; energy efficiency; water efficiency; materials efficiency; and indoor air quality enhancement.

For detailed information on each of the items below, please refer to the Your Home Technical Manual at: www.yourhome.gov.au, and Energy Smart Homes at: www.clean.energy.wa.gov.au.

This checklist must be submitted with the planning application for all new residential, commercial and mixed-use buildings and redevelopments (excluding single and grouped dwellings, internal fit outs and minor extensions) in the City of Joondalup.

The City will seek to prioritise the assessment of your planning application and the associated building application if you can demonstrate that the development has been designed and assessed against a national recognised rating tool.

Please tick the boxes below that are applicable to your development.

Siting and structure design efficiency

Environmentally sustainable design seeks to affect siting and structure design efficiency through site selection, and passive solar design.

Does your development retain:

- existing vegetation; and/or
- Inatural landforms and topography

Does your development include:

- In northerly orientation of daytime living/working areas with large windows, and minimal windows to the east and west
- Ø passive shading of glass
- Sufficient thermal mass in building materials for storing heat
- Insulation and draught sealing
- Iloor plan zoning based on water and heating needs and the supply of hot water; and/or
- Advanced glazing solutions

Attachment 5

Energy efficiency

Environmentally sustainable design aims to reduce energy use through energy efficiency measures that can include the use of renewable energy and low energy technologies.

Do you intend to incorporate into your development:

- \mathfrak{S} renewable energy technologies (e.g. photo-voltaic cells, wind generator system, etc); and/or
- \mathcal{O} low energy technologies (e.g. energy efficient lighting, energy efficient heating and cooling, etc); and/or
- 🖉 natural and/or fan forced ventilation

Water efficiency

Environmentally sustainable design aims to reduce water use through effective water conservation measures and water recycling. This can include stormwater management, water reuse, rainwater tanks, and water efficient technologies.

Does your development include:



water reuse system(s) (e.g. greywater reuse system); and/or

rainwater tank(s)

Do you intend to incorporate into your development:

 \checkmark water efficient technologies (e.g. dual-flush toilets, water efficient showerheads, etc)

Materials efficiency

Environmentally sustainable design aims to use materials efficiently in the construction of a building. Consideration is given to the lifecycle of materials and the processes adopted to extract, process and transport them to the site. Wherever possible, materials should be locally sourced and reused on-site.

Does your development make use of:

- recycled materials (e.g. recycled timber, recycled metal, etc)
- \bigcirc rapidly renewable materials (e.g. bamboo, cork, linoleum, etc); and/or
- recyclable materials (e.g. timber, glass, cork, etc)
- \bigcirc natural/living materials such as roof gardens and "green" or planted walls

Indoor air quality enhancement

Environmentally sustainable design aims to enhance the quality of air in buildings, by reducing volatile organic compounds (VOCs) and other air impurities such as microbial contaminants.

Do you intend to incorporate into your development:

low-VOC products (e.g. paints, adhesives, carpet, etc)

'Green' Rating

Has your proposed development been designed and assessed against a nationally recognised "green" rating tool?

- 🔍 Yes
- 🖉 No

If yes, please indicate which tool was used and what rating your building will achieve:

As part of project design development, the design will be assessed in accordance with energy rating software by a qualified and certified energy consultant.

If yes, please attach appropriate documentation to demonstrate this assessment.

Attachment 5

Designed in accordance with Design WA guidelines

If you have not incorporated or do not intend to incorporate any of the principles of environmentally sustainable design into your development, can you tell us why:

Is there anything else you wish to tell us about how you will be incorporating the principles of environmentally sustainable design into your development:

When you have checked off your checklist, sign below to verify you have included all the information necessary to determine your application.

Thank you for completing this checklist to ensure your application is processed as quickly as possible.

Applicant's Full Name:	LES HARDEN JONES	Contact Number:	0412 002 618
Applicant's Signature:	G. Monros MES	Date Submitted:	14-12-2018
Accepting Officer's Signa	iture:		
Checklist Issued: March 2	011		



Government of Western Australia Development Assessment Panels

LG Ref: DAP Ref: Enquiries: DA18/1389 DAP/19/01557 (08) 6551 9919

Mr Giles Harden Jones HJ Architects Suite 8-300 Rokeby Road Subiaco WA 6008

Dear Mr Harden Jones

METRO NORTH-WEST JDAP - CITY OF JOONDALUP - DAP APPLICATION - DA18/1389 - DETERMINATION

Property Location:	Lots 104 and 105 (8 and 10) Brechin Court, Duncraig
Application Details:	16 Multiple Dwellings

Thank you for your Form 1 Development Assessment Panel (DAP) application and plans submitted to the City of Joondalup on 20 December 2018 for the abovementioned development.

This application was considered by the Metro North-West JDAP at its meeting held on 23 July 2019, where in accordance with the provisions of the City of Joondalup Local Planning Scheme No.3, it was resolved to **refuse** the application as per the attached notice of determination.

Please be advised that there is a right of review by the State Administrative Tribunal in accordance with Part 14 of the *Planning and Development Act 2005*. Such an application must be made within 28 days of the determination, in accordance with the *State Administrative Tribunal Act 2004*.

Should you have any queries with respect to the reasons for refusal, please contact Ms Alisa Spicer on behalf of the City of Joondalup on 9400 4568.

Yours sincerely,

DAP Secretariat

24 July 2019

- Encl. DAP Determination Notice Refused Plans
- Cc: Ms Alisa Spicer City of Joondalup



Planning and Development Act 2005

City of Joondalup Local Planning Scheme No.3

Metro North-West Joint Development Assessment Panel

Determination on Development Assessment Panel Application for Planning Approval

Property Location:Lots 104 and 105 (8 and 10) Brechin Court, DuncraigApplication Details:16 Multiple Dwellings

In accordance with regulation 8 of the *Planning and Development (Development Assessment Panels) Regulations 2011*, the above application for planning approval was **refused** on 23 July 2019, subject to the following:

Refuse DAP Application reference DAP/19/01557 and accompanying plans (Attachment 2) in accordance with Clause 68 of Schedule 2, Part 9 of the *Planning and Development (Local Planning Schemes) Regulations 2015, the Metropolitan Region Scheme* and the provisions of the *City of Joondalup Local Planning Scheme No. 3,* for the following reasons:

- 1. The proposal does not satisfy the matters to be considered under clause 67(c), Schedule 2, Part 9 of the *Planning and Development (Local Planning Schemes) Regulations 2015*, as:
 - i. The proposal does not satisfy the *2.4 Side and rear setbacks* element objectives of State Planning Policy 7.3, as the setbacks do not provide adequate separation between neighbouring properties and the development does not provide an appropriate transition between sites with different intensity of development.
 - ii. The proposal does not satisfy 2.5 *Plot Ratio* element objective of *State Planning Policy 7.3*, as building bulk and scale of the development is inappropriate for the existing and planned character of the area.
 - iii. The proposal does not satisfy 2.6 *Building depth* element objectives of *State Planning Policy 7.3,* as it results in undue amenity impacts for future occupants due to the building depth not providing apartment layouts and room depths to optimise daylight and solar access, and built form is not appropriately articulated to allow sufficient access of daylight.
 - iv. The proposal does not satisfy 2.7 *Building separation* element objectives of *State Planning Policy* 7.3, as it results in undue impacts to residential amenity of neighbouring properties including visual privacy impacts and sunlight and daylight access.
 - v. The proposal does not satisfy *3.2 Orientation* element objective of *State Planning Policy 7.3,* as the building form and orientation does not minimise overshadowing of open space of the neighbouring property.



- vi. The proposal does not satisfy 3.3 *Tree canopy and deep areas* element objective of *State Planning Policy* 7.3, as inadequate measures have been taken to improve tree canopy (long term).
- vii. The proposal does not satisfy *3.4 Communal open space* element objectives of *State Planning Policy 7.3,* as the communal open space does not enhance or provide a high level of amenity for residents.
- viii. The proposal does not satisfy *3.5 Visual privacy* element objective of *State Planning Policy 7.3,* as the orientation and design of the building's windows do not minimise direct overlooking of private outdoor living areas of neighbouring sites.
- ix. The proposal does not satisfy 3.6 *Public domain interface* element objectives of *State Planning Policy* 7.3, as there is an inappropriate transition between private and public domain and does not enhance the privacy and safety of residents.
- x. The proposal does not satisfy 3.9 Car and bicycle parking element objective of State Planning Policy 7.3, as the provision of carparking is not appropriate for the site's location and the positioning of visitor car parking does not minimise negative visual and environmental impacts on amenity and the streetscape.
- xi. The proposal does not satisfy *4.1 Solar and daylight access* element objectives of *State Planning Policy 7.3,* as the development is not sited or designed to optimise the number of dwellings receiving winter sunlight via windows to habitable rooms.
- xii. The proposal does not satisfy *4.3 Size and layout of dwellings* element objective of *State Planning Policy 7.3,* as room designs do not facilitate good daylight access.
- xiii. The proposal does not satisfy *4.9 Universal design* element objective of *State Planning Policy 7.3,* as inadequate universal design features are provided for people living with disabilities or limited mobility and the design does not facilitate ageing in place.
- xiv. The proposal does not satisfy *4.12 Landscape design* element objectives of *State Planning Policy 7.3*, as insufficient landscaping is provided to enhance the streetscape, improve the visual appeal and comfort of open space areas, or provide an attractive outlook for habitable rooms.
- 2. The proposal does not satisfy the matters to be considered under clause 67(m), clause(p) and clause 67(u) of Schedule 2, Part 9 of the *Planning and Development (Local Planning Schemes) Regulations 2015*, as:
 - i. the bulk and scale of the development is not compatible with its setting particularly the relationship of development to development on adjoining land.
 - ii. Inadequate provision made for the landscaping of the land to which the application relates.



iii. Inadequacy of the development to provide means of access by older people and people with disability.



ENTRY - SKETCH

RESIDEN VISITOR F

TOTAL AP TOTAL SC

SITE AREA APARTME

PLOT RAT



TIO:	0.92 14% INCREASE
EA:	1423.9 SQM
IENT AREA:	1316 SQM
PARTMENTS:	16 APARTMENTS
QM:	16 APARTMENTS
NTIAL PARKING:	28 BAYS ON SITE
PARKING:	3 BAYS ON SITE

8-10 BRECHIN COURT, DUNCRAIG

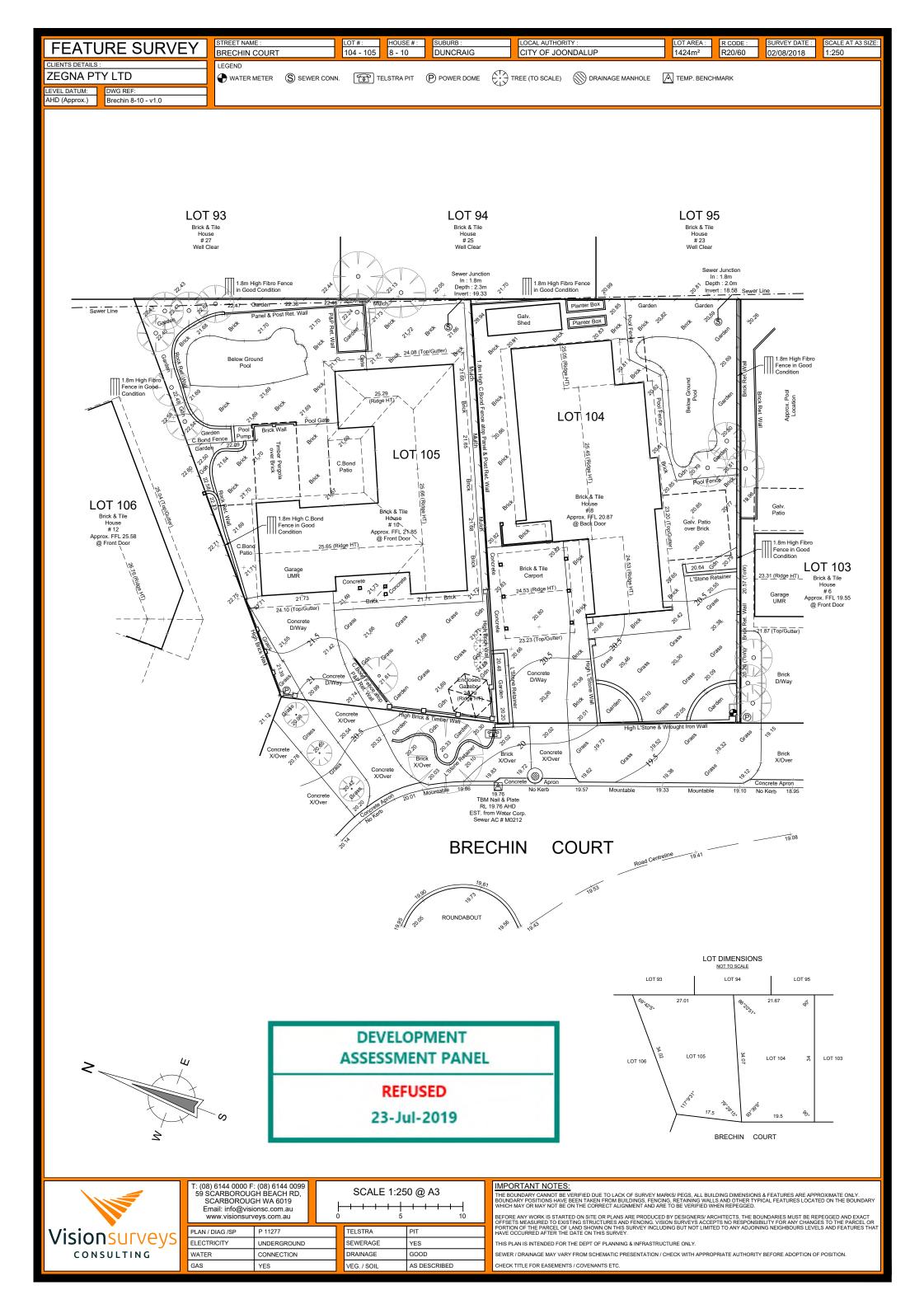
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A.101 A.102	SITE PLAN
A.201	GROUND FLOOR PLAN
A.202	FIRST FLOOR PLAN
A.203	SECOND FLOOR PLAN
A.204	ROOF PLAN
A.205	SHADOW PLAN
A.206	WMP
A.301	SUN/VENTILATION DIAG
A.302	SUN/VENTILATION DIAG
A.303	SUN/VENTILATION DIAG
A.304	SUN DIAGRAM SECTION
A.305	SUN DIAGRAM SECTION
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A.401 A.402	ELEVATION
A.402	EXTERNAL RENDERS
A.403	EXTERNAL FINISHES
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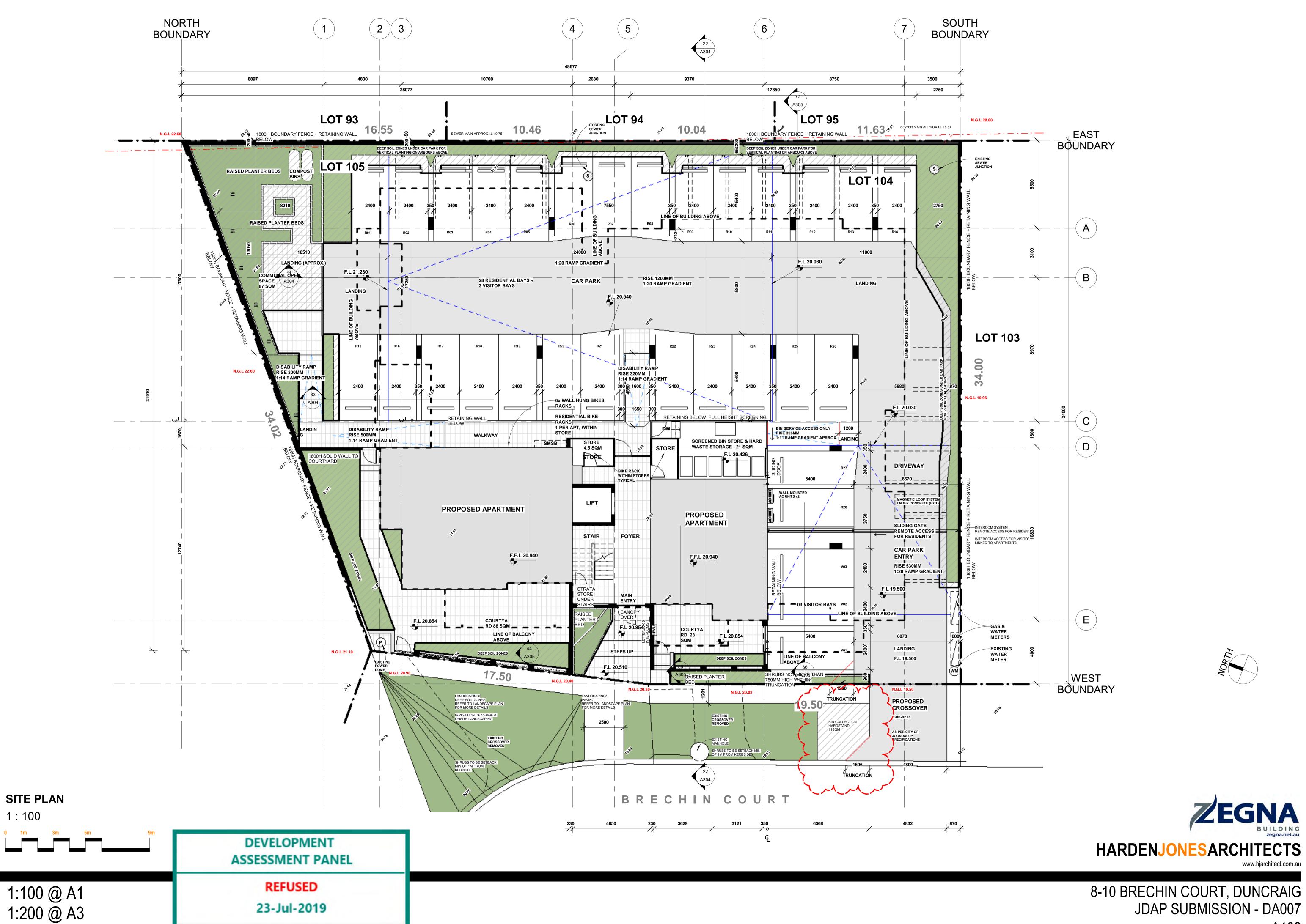
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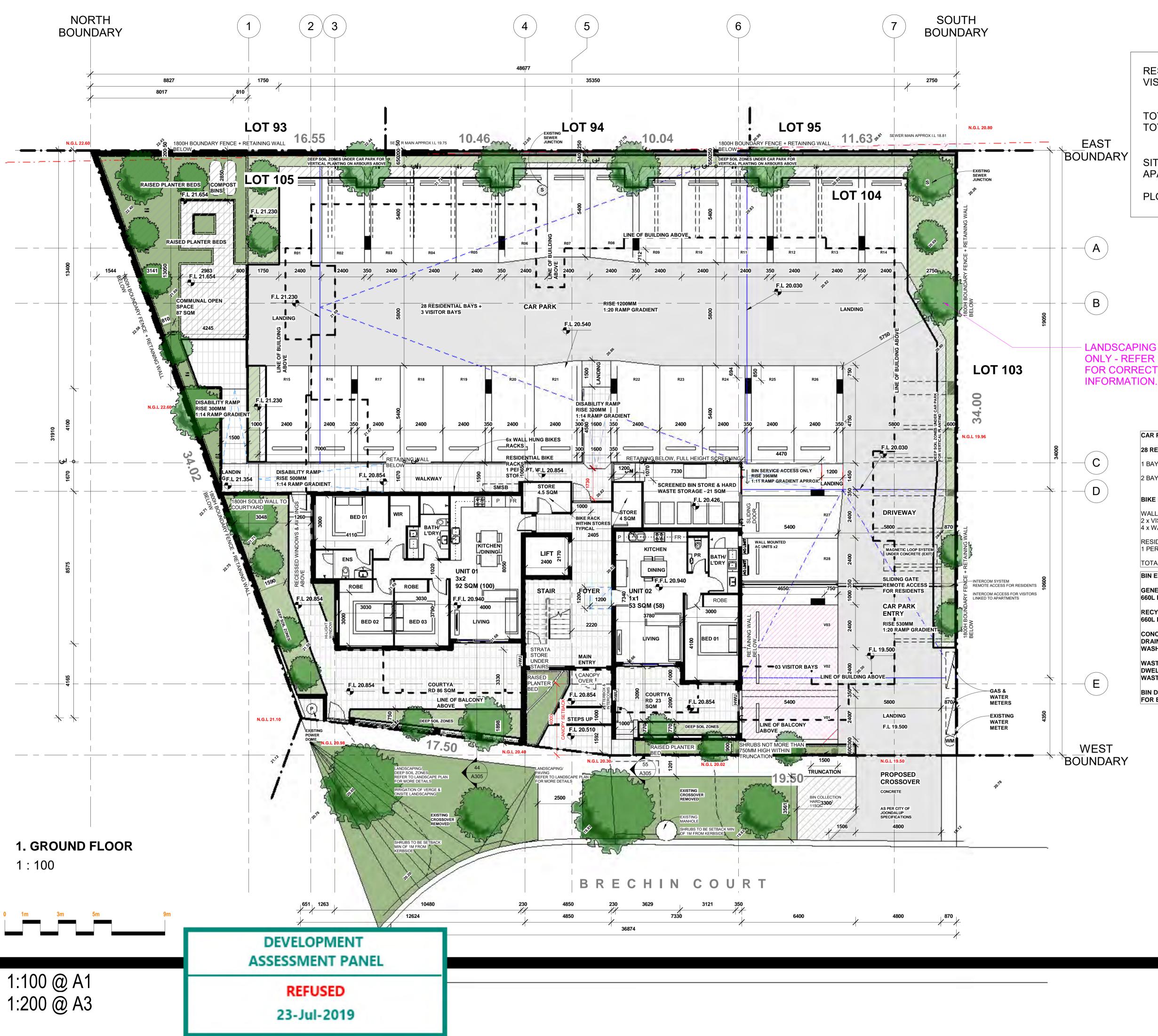
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	RESIDENTIAL PARKING: VISITOR PARKING:	28 BAYS ON SITE 3 BAYS ON SITE
	TOTAL APARTMENTS: TOTAL SQM:	16 APARTMENTS 16 APARTMENTS
•	SITE AREA: APARTMENT AREA:	1423.9 SQM 1316 SQM
	PLOT RATIO:	0.92 14% INCREASE

LANDSCAPING INDICATIVE ONLY - REFER LO1, L02 & LO3 FOR CORRECT LANDSCAPING

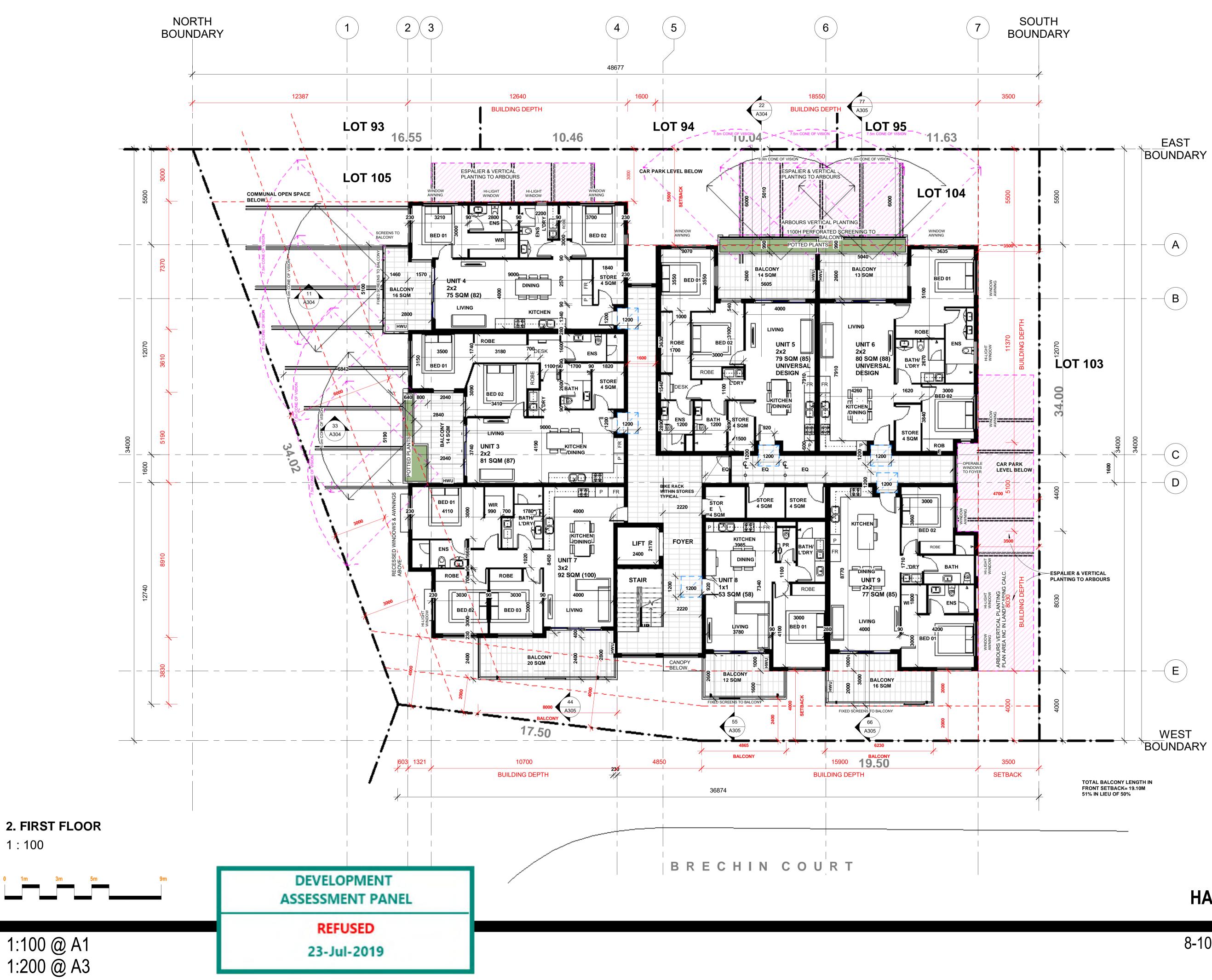
1 BAY PER	1x1 APARTMENT (3 APARTMENTS	
2 BAYS PER	2x2 APARTMENT (10 APARTMENT 3x2 APARTMENT (3 APARTMENTS	
BIKE PARKING		
WALL HUNG BIKES RA 2 x VISITOR 4 x WALL HUNG FOR R		
RESIDENTIAL BIKE RA 1 PER APT, WITHIN ST		
TOTAL BIKE RACKS = 2	22	
BIN ENCLOSURE & HARD WASTE STAND - 21 SQM		
DIN ENGLUSUKE & HA	RD WASTE STAND - 21 SQM	
GENERAL 660L LITRES SULO BIN		
GENERAL	IS x 4	
GENERAL 660L LITRES SULO BIN RECYCLING	IS x 4 IS x 3 SYSTEM. TAP FOR	
GENERAL 660L LITRES SULO BIN RECYCLING 660L LITERS SULO BIN CONC FLOOR & FW DRAINED TO SEWER S WASH DOWN. H & C W	IS x 4 IS x 3 SYSTEM. TAP FOR ATER REQUIRED. BINS CALCS AS PER WALGA MULTIPLE	





8-10 BRECHIN COURT, DUNCRAIG JDAP SUBMISSION - DA007

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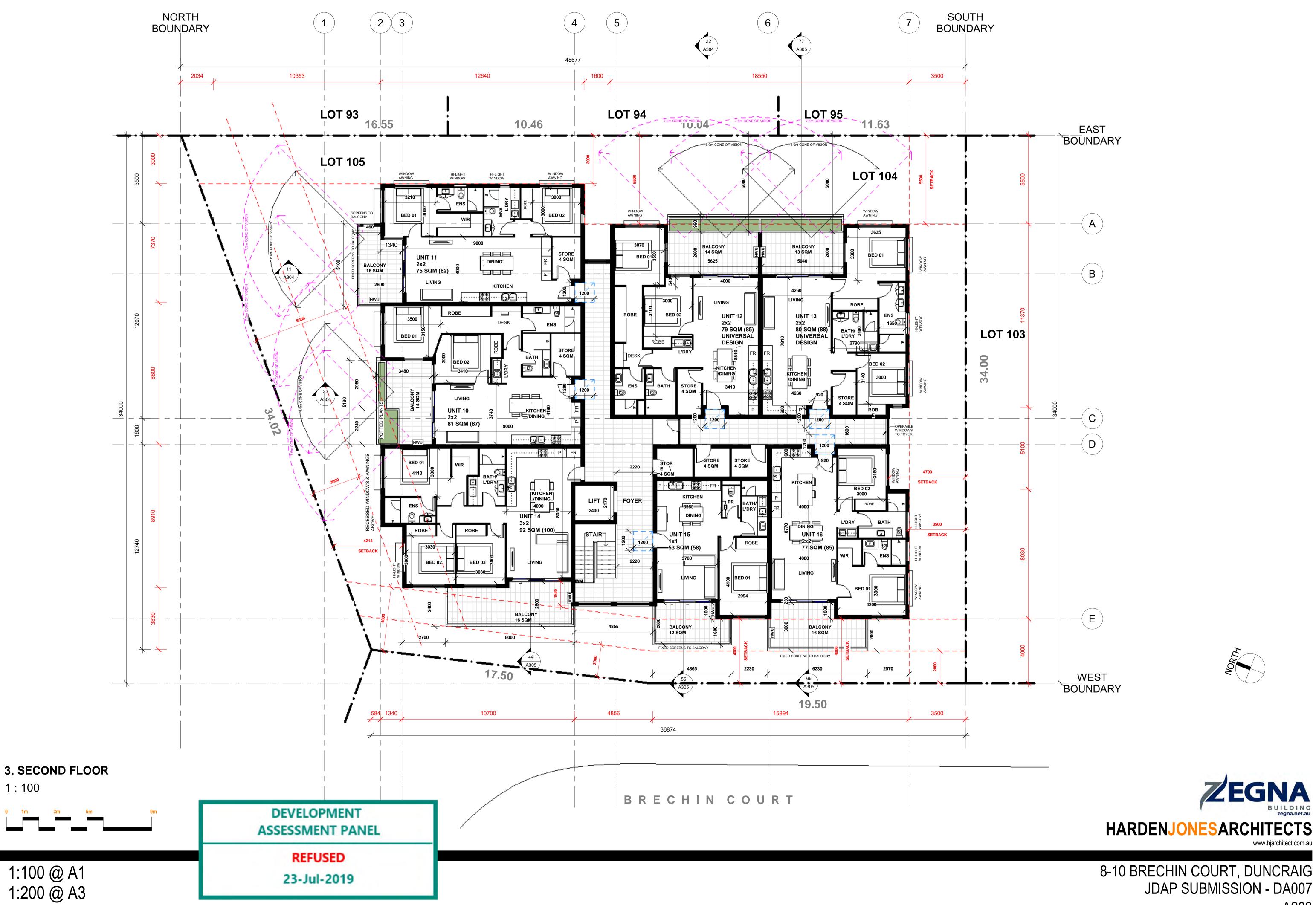




TARDENJONESARCHITECTS Www.hjarchitect.com.au

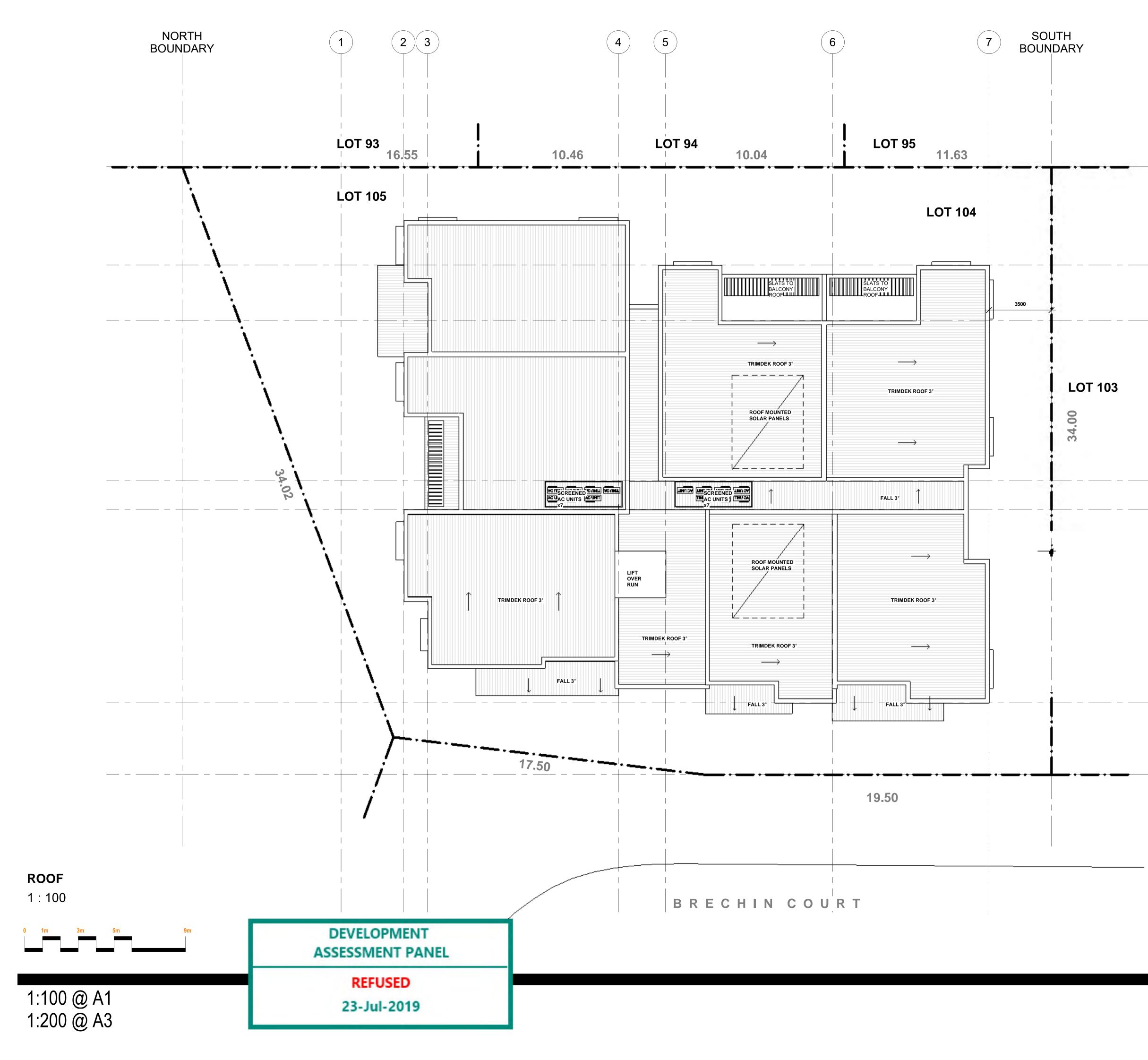
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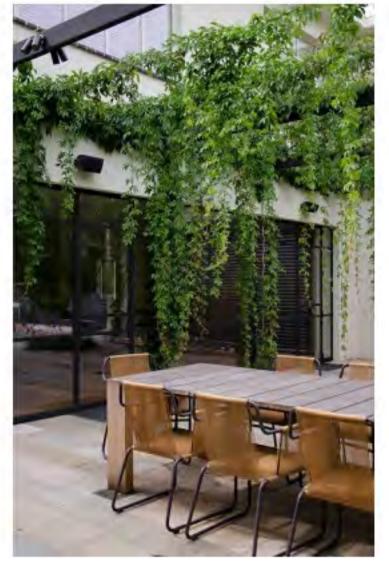
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___EAST BOUNDARY

-(A)

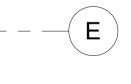
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VERTICAL LANDSCAPING TO ARBOURS



PLANTER BEDS









8-10 BRECHIN COURT, DUNCRAIG JDAP SUBMISSION - DA007

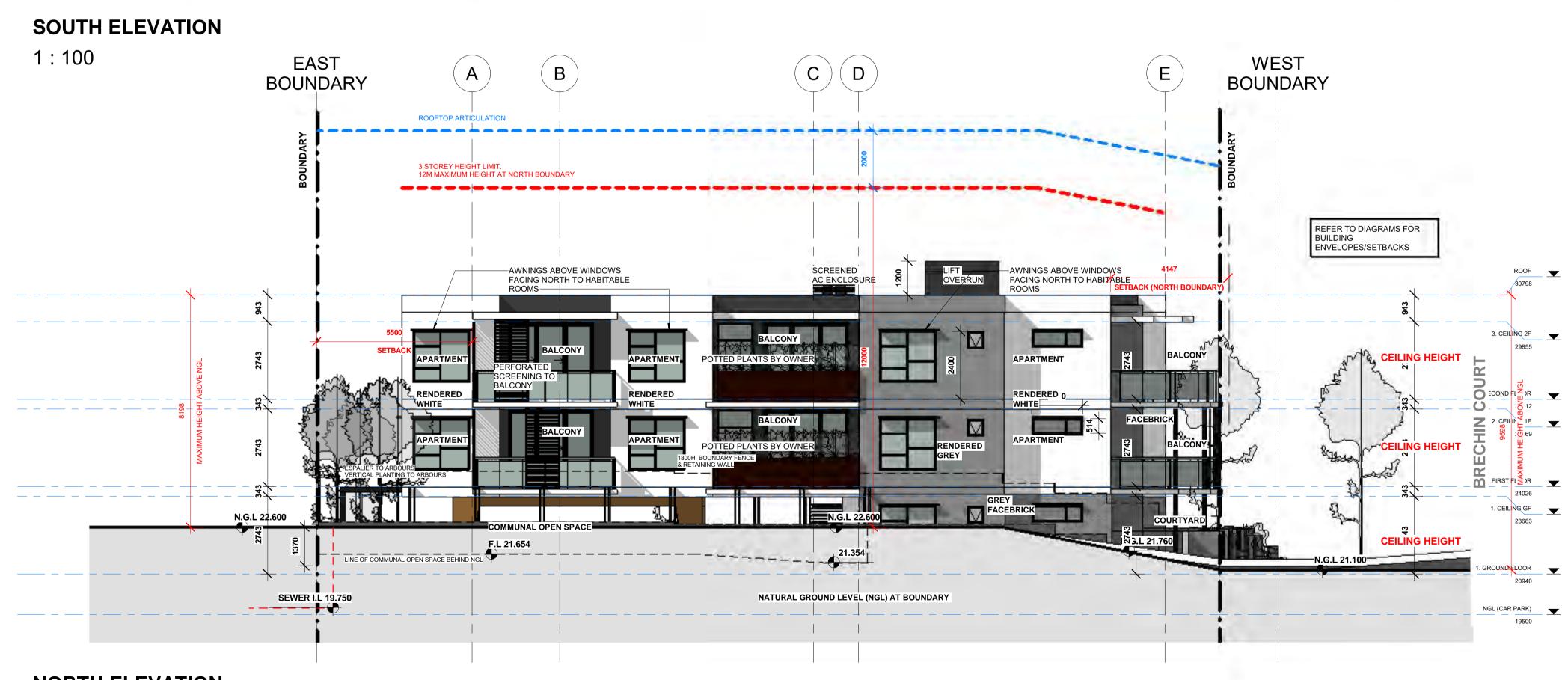
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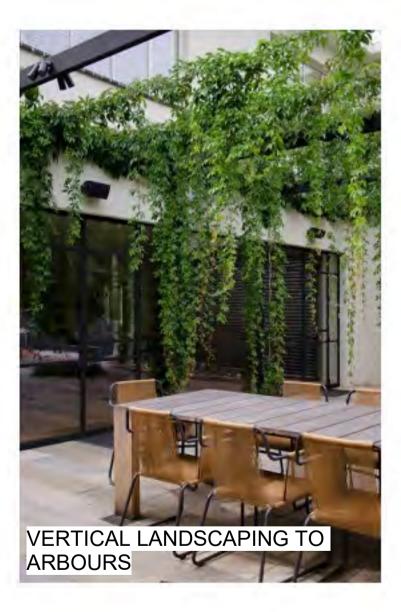






AL WINDOW AWNING







8-10 BRECHIN COURT, DUNCRAIG JDAP SUBMISSION - DA007

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Issue Raised	Officer Response
Density and zoning	
Cul-de-sacs should be limited to low density developments only.	The City started developing its Local Housing Strategy (LHS) in 2010 by identifying suitable areas for increased density and identified ten areas (known as Housing Opportunity Areas (HOAs). The final LHS was endorsed by the Western Australian Planning Commission on 12 November 2013.
	Since early 2016, residents in HOAs have been able to redevelop their properties in line with the higher densities allocated to these areas, including for multiple dwellings.
	A draft new planning framework for infill development which includes provisions restricting the development of multiple dwellings in cul-de-sacs has been prepared but is yet to have any formal status that would allow it to be considered in decision-making for planning applications.
	The current planning framework allows for multiple dwellings, subject to an assessment against the relevant standards.
Building height	1
Building height of 3 storeys in a locality that includes a maximum of 2 storeys is excessive. This will set a precedent that will change the family centred street.	The proposal is in accordance with the acceptable outcomes and element objectives of <i>2.2 Building height</i> .
	Building height of three storeys is an acceptable outcome within the current framework for the density coding of R60 and it is also noted that the development is within the indicative height limit of 12 metres.
Built form and scale	
The development is not in scale with other developments in the area. The plot ratio is well above the 0.8 requirements (akin to an R80 development) and will result in a different built form of development than envisaged within the realms of a R60 density.	This site is dual coded R20/60. The plot ratio acceptable outcome under SPP7.3 is 0.8. The proposed plot ratio is 0.948, which is 18.5% over the acceptable outcome requirement. The proposed plot ratio does not achieve the acceptable outcomes or element objectives of 2.5 Plot ratio. Refer to officer comments
The development will dominate the street and will not blend with other developments. Only other 3 storey development currently under construction in Argyll Court has its 3 storey portion occupying only half of the overall building footprint.	contained in the report.
The JDRP previously considered the proposal to be clear over development on this site. The revised plans do not address this, while the dwelling mix has been	

Consultation summary of submissions

Issue Raised	Officer Response
amended no reduction to apartment numbers has been proposed in order to reduce the building mass. This does not address either the existing or future planned character of the area. The development is inconsistent with the design principles of <i>State Planning Policy 7:</i> <i>Design of the Built Environment.</i> The massing and height of the proposed development is not appropriate to its setting and not compatible with development on adjoining land, and on other land in the locality in terms of number of stories, bulk and scale.	
Character and context	
The drawings provided do not show the development within context of the street and adjoining development, which fail to highlight the two main issues with this development; being its size and density. The application fails to respect or plan for the existing and future context and character of the area. Building mass is prioritised over form and scale resulting in overdevelopment. A better design outcome could be achieved in terms of functionality, landscape quality and community expectation if quantity of development were not a principle driver.	The applicant has provided contextual elevations provided as Attachment 4. It is considered that the development does not meet a number of element objectives that result in the proposal being inconsistent with the context and character of the area. Refer to officer comments contained in the report.
Overshadowing	
The shadow diagram notates that 25% of the adjoining property may be overshadowed (29% of the adjoining Lot 103 is overshadowed). Overshadowing falls over a portion of the roof, front driveway and entire rear courtyard. The decommissioned pool cannot be considered useable open space.	The proposal results in undue overshadowing to the adjoining property to the south and is not considered to meet the acceptable outcomes or element objectives of clause <i>3.2 Orientation</i> . Refer to officer comments contained in the report.
The applicant plans deduct the roof structure from the overshadowing calculation – Element 3.2 does not have any commentary to such allowances. This is an impact/consequence of the massing of the development. The building form and orientation does not minimise overshadowing of the neighbouring property as required by Element 3.2 Landscaping	

This applicant proposes significant landscaping outside of the development boundary and within the existing road reserve (verge) in order to satisfy Element 4.12, the verge is within the ownership and control of the City. If development were to proceed how would the City ensure that such landscaping occurs? The proposed on-site landscaping and tree sleement objectives of clauses 3.3 <i>Tree canopy</i> <i>design</i> . The proposal does not satisfy the Landscape Design objectives of Element 4.12 of SPT2. Insufficient landscaping is provided to enhance the streetscape, improve the visual appeal and comfort of open space areas, or provide an attractive outlock for habitable rooms. The proposed side and rear setbacks do not meet the intent of Element 4.5 Side boundary setbacks An increased setback is required for the southern boundary to reduce overshadowing in order to meet the Element Objectives of 2.4. The development does not meet the intent of Element 2.4 with respect to maintaining the amenity of the adjoint properties to the south and east, due to excessive buik above the ground floor. The proposed development setbacks has the cumulative effect or resulting in the development not achieving the element objectives associated with elements 2.5 (plot ratio), 2.7 (Duilding separation) and 4.1 (solar and daylight access) as required by Acceptable outcome 2.4.2. Proposed modifications to the internal layout of aptrometis is considerably over the allowable building depth which is a discretion that should not be passed. The proposed 2.6 merte building depth sis a 30% increase on the recommended maximum building depth. Proposed modifications to the internal layout of apartments is considered to have addressed the element objectives of clause 2.6 Building depth. Element 2.6 acknowledges that building depth can impact on streetscape. Th	Issue Raised	Officer Response
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planning of the area.		
Visual privacy		
visuai privacy		

Issue Raised	Officer Response
Overlooking of front yards within the street.	It is noted that the extent of the neighbouring
The development overlooks 12A Brechin	driveway indicated on the shadow diagram is
Court and the development plans indicate	inaccurate.
that this occurs over a driveway. The	
section overlooked is not a driveway.	Front yards are already visible from the public
	realm. It is considered unreasonable to impose
	restrictions on developments in relation to
	providing visual privacy to areas already visible
	from the street.
	Notwithstanding the above the development
	does not meet the element objectives of clause
	3.5 Visual privacy due to reduced outlook from apartments resulting from increased screening
	measures.
Utilities and facilities	
Adding bike racks into the storerooms	Utilities associated with the development have
reduces the space available for storing other	been provided in accordance with the
items and still does not cater for visitor	acceptable outcomes applicable to <i>clause 4.18</i>
bicycle parking.	Utilities of SPP7.3 and the element objectives
	have been met.
Traffic	
Higher density development in the cul-de-	There is adequate capacity within the road
sac will disrupt the ability for children to	network to support the development. Refer to
safely play in the street due to increased	officer comments contained in the report.
traffic and parking within the cul-de-sac.	
It is important to highlight that while the	
previous report to JDAP found that the road	
network could accommodate the increased	
traffic from the development this is separate to maintaining amenity and safety. As a cul-	
de-sac Brechin Court does not benefit from	
an existing footpath network. There are	
concerns regarding pedestrian safety due	
to increased traffic i.e. conflict between	
pedestrians leaving Brechin Court to	
Methuen Way which is somewhat of blind	
corner. This concern is further compounded	
by the fact that a pedestrian access way	
links surrounding streets with Brechin Court	
and is a well-used pedestrian route to	
Beach Road and Carine Open Space. This	
safety concern requires to be considered	
and there is no correspondence relating to	
this matter from the previous JDAP report.	
Increased traffic will cause a bettlenest	
Increased traffic will cause a bottleneck getting out of Brechin Court and Methuen	
Way.	
truy.	
Parking	<u></u>

Issue Raised	Officer Response
The number of resident bays provided is an	The parking provisions of SPP7.3 supersede
oversupply which is at odds with	the requirements contained in the City's
encouraging the use of public transport.	Residential Development Local Planning
The 4 visitor parking bays provided falls	Policy. The parking provided for the
well short of the realistic number of bays	development meets the acceptable outcomes
needed for a development of this type.	and element objectives of clause 3.9 Car
	parking and bicycle parking. The surplus of car
One of the visitor have is leasted hehind a	parking has reduced from 12 to 5 bays from
One of the visitor bays is located behind a	the proposal previously considered.
remote sliding gate, which is not accessible except to prearranged visitors. The four	
bays provided do not comply with the City's	SPP7.3 allows for visitor parking behind a
Residential Development Local Planning	security gate provided an intercom is available
Policy visitor parking requirement which	for visitor access.
requires a total of 8 bays located outside	
the gate.	Bin collection will occur on-site. Any
the gate.	unauthorised parking within the road reserve is
	governed by the City of Joondalup Parking
Where will visitors to the site park?	Local Law 2014.
Concerns that visitor parking will obstruct	
bin collection or spill into the street and	Refer to officer comments contained in the
neighbouring verges.	report for further commentary.
	· · · · · · · · · · · · · · · · · · ·
Amenity	
Detrimental impact on the streetscape,	Refer to officer comments in relation to SPP7.3
adjoining properties and the locality.	element objectives.
Changes from previous development	
The amended plans represent only tweaks	Refer to officer comments in relation to SPP7.3
to the previously refused development and	element objectives.
does not lessen the negative impact on the	
locality that the previous proposal had.	
The amended proposal has not addressed	
the concerns about overdevelopment of the	
site including the bulk and height of the	
development previously refused by the	
JDAP.	
Universal access	
The proposal does not satisfy the Universal	The development achieves the acceptable
Design element objective 4.9 of the	outcomes in relation to <i>clause 4.9 Universal</i>
SPP7.3. Inadequate universal design	design outlined in SPP7.3 and is considered to
features are provided for people living with	satisfy the element objectives.
disabilities or limited mobility, and the	-
design does not facilitate ageing in place.	
Communal open space	
The Communal open space is considered	The communal open space is considered to
to be poorly located within the apartment	meet the acceptable outcomes and element
complex to provide functional and ease of	objectives of clause 3.4 Communal open
use to all residents.	<i>space.</i> Refer to officer comments contained in the report
Solar access and ventilation	the report.
Having only a minimum of 2 hours of direct	The development meets the acceptable
sunlight to units is problematic as it requires	outcomes and element objectives of clause 4.1
the use of artificial lighting during the day	Solar and daylight access and clause 4.2
and decreased amenity for residents.	Natural ventilation.
25% of the units within the complex don't	
meet natural cross ventilation requirements	
•	

Issue Raised	Officer Response
which is non-compliant. This will result in	
excessive air conditioner use.	
COVID 19 Having an influx of tradespeople coming	The City is guided by advice provided by the
into the suburb places immense risk to the elderly folks who reside within the building catchment. For community safety no building submissions should be considered or approved until the state has determined the virus is under control, and the ongoing effects of the virus moving forward, is known.	Federal and State Governments regarding COVID 19. The <u>latest statement</u> provided by the WA Minister of Transport and Planning was released on 11 April 2020 which provides directives for Local Governments in relation to local planning approvals during COVID 19.
Draft Local Planning Policy – Developmen	t in Housing Opportunity Areas
The City as endorsed by Council has developed and completed community consultation on Draft Local Planning Policy – Development in Housing Opportunity Areas.	Refer to officer comments section of the report in relation to the Draft new development standards for development in Housing Opportunity Areas.
The LPP includes specific controls within cul-de-sacs which seek to ensure that residential intensity is focussed on appropriately designed streets that provide suitable opportunity for access/egress and on-street parking and minimise the impact of residential intensity on suburban non- through roads. The LPP outlines development standards for cul-de-sacs where the development of multiple dwellings on a site would be required to comply with the average site area per dwelling requirement for a single house or grouped dwelling for the applicable density code as specified by SPP7.3 Volume 1; those in keeping with such provisions would thereafter not be subject to maximum plot ratio requirements.	
This would enable a maximum of 9 dwellings on the site. This is argued will allow for better and more appropriate development outcomes for this cul-de-sac and on the site – preserving and enhancing the amenity of existing and future residents.	
While the LPP is in draft format and a due regard document, it has been endorsed for advertising and obtained community support; the policy is considered to be a seriously entertained document. It is important to note that the City has discretion to adopt local planning policies that amend or replace the acceptable outcomes of SPP7.3 including Part 2 (Primary Controls). Approval of the Western Australian Planning Commission or the Minister of Planning is not required. This is an important element of the local planning framework.	

Issue Raised	Officer Response
The City has clearly accepted that	
development outcomes in areas such as	
the subject site and proposals such as this	
application are not appropriate. It would not	
seem credible that the City in its	
recommendation on this application could	
ignore the provisions of this policy, the will	
and intent of the Council and its previous	
objection to the proposal by not	
recommending refusal. The applicant is	
continuing to ignore elements of the local	
planning framework and state planning	
policies in pursuit of a development	
outcome which pays no homage to the	
current and future amenity of residents. The	
area is identified for future intensification	
through zoning; but equally its split zoning	
of R20/R60 zoning must be acknowledged	
and planned for. Cul-de-sacs and many lots	
within such areas will not be suitable for the	
level of development proposed through this	
application. Design WA seeks to ensure	
development appropriate for a site's area –	
this proposal does not accord with this	
intent.	

Element	Objectives	Acceptable Outcome	Proposed	Planning/ design guidance
2.2 Building height		3 storeys (12m)	3 storeys (11.74m) NGL under lift 20.60	
2.3 Street setbacks	Achieved	Replaced by CoJ RDLPP: 2m min. 4m avg.	2m min. >4m avg.	N/A
2.4 Side and rear setbacks	Not achieved	Side and rear: 3m min. 3.5m avg. And/or Greater setback required for visual privacy. (A2.4.1) Achieve objectives of 2.7, 3.3, 3.5 and 4.1. (A2.4.2)	 3m U7 & U14 (north-west boundary). Arbours are proposed with a nil setback to the southern boundary. Remaining setbacks meet AO minimum and average. Greater setback not provided for visual privacy to Unit 3, 4, 10 & 11 balconies. 2.7 (building separation) not achieved. 	N/A
2.5 Plot ratio	Not achieved	0.8 (1139m ²) (A2.5.1)	0.925 (1,317.7m ²) 178.7m ² over.	N/A
2.6 Building depth	Achieved	20m (A2.6.1) Other proposals assessed on merits (solar and natural	24m Meets 4.1 & 4.2.	N/A
2.7 Building separation	Not achieved	ventilation). Refer to 2.4 <i>Side and rear</i> <i>setbacks</i> (Table 2.1) and 3.5 <i>Visual privacy</i> (Table 3.5) (A2.7.1).	2.4 <i>Side and rear setbacks</i> (Table 2.1) and 3.5 <i>Visual privacy</i> (Table 3.5) not met due to visual privacy setbacks to balconies.	N/A
3.2 Orientation	Not achieved	Buildings on street orientated to face public realm and incorporate direct access from the street. 25% (A3.2.3) Buildings orientated to maintain 4 hours per day for existing solar collectors on neighbouring	Yes 29.56% (248.8sqm) N/A no solar collectors	Not satisfied
3.3 Tree canopy and deep soil areas	Achieved	site. Retention of trees. No detrimental impacts on canopy of adjoining trees. Deep soil area 142.4sqm and provided conductive to tree growth and suitable for communal open space. 1 large tree and 1 medium tree (A3.3.5). Permeable paving or decking within deep soil not exceed 20%	 N/A - Trees onsite not within criteria. No detrimental impacts on canopy of adjoining trees. >160sqm DSA (not including verge area). 21 x small trees 3 x medium trees 1 x large tree <20% paving 	Satisfied
3.4 Communal open space	Achieved	of its area and not inhibit trees. 96m ² communal open space 32m ² to 100 m ² hardscape.	135.5m ² communal open space 48m ²	Satisfied

		Located on ground floor	Located on ground floor	
		50% direct sun	>50% direct sun	
		Co-located with deep soil areas.	Co-located with deep soil areas.	
		Separated or screened from adverse amenity impacts (A3.4.5).	1.65m screening provided between the communal open space and the car parking area.	
		Well lit, minimises concealment and open passive surveillance.	Minimises concealment and open passive surveillance.	
3.5 Visual privacy	Not achieved	4.5m to bedroom 7.5m to balcony (A3.5.1)	7.1m setback from U3, U4, U10 and U11 balconies.	Not satisfied: Screening has been
		Balconies unscreened at least 25%	Screening to these balconies is >75%: - U3 & U10 balconies unscreened for 14.1% - U4 & U11 balconies unscreened for 17.9%.	used to justify a reduction in visual privacy setbacks to Units 3, 4, 10 and 11.
		Living rooms have external outlook.	Reduced external outlook from the living rooms of Units 3, 4, 10 and 11 as a result of screening.	
		Windows and balconies restrict direct overlooking. (A3.5.4)	Yes - Overlooking does not directly overlook habitable spaces.	
3.6 Public domain interface	Achieved	Ground floor dwellings direct access from street.	Direct access from street provided to ground floor units.	Satisfied
		Car-parking not located within primary street setback area (A3.6.2).	All car parking has been moved behind the front setback area.	
		Balconies and/or windows overlook public domain	Balconies and/or windows overlook public domain.	
		Balustrading provides privacy for residents and achieves surveillance of adjoining public domain.	Balustrading achieves privacy for residents and surveillance of public domain.	
		Level changes to the street: 1m avg. 1.2m max.	<1m <1.2m (0.94 from verge mid-point)	
		Front fencing visually permeable above 1.2m	Visually permeable above 0.735m	
		Elements on frontage eliminate opportunities for concealment.	Elements on frontage eliminate opportunities for concealment.	
		Bins not located within primary street setback area.	Bins located outside primary street setback area.	
		Services and utilities located within primary street setback area integrated into the development.	Gas and water metres located within street setback area. Can be painted to match the development.	
3.7	Achieved	Pedestrian entries connected	Pedestrian entries are connected.	Satisfied
Pedestrian access and entries		Pedestrian entries protected from weather.	Translucent canopy at upper levels provides shelter for	

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		Pedestrian entries well-lit, visible from public domain and enable casual surveillance. Pedestrian access via shared zone, path is clearly delineated and/or incorporated to prioritise pedestrian and constrain vehicle speed. Services and utilities located at pedestrian entry.	 pedestrians entering through the foyer. Pedestrian entry is visible from public domain and is provided casual surveillance. Path provided in carpark that is clearly delineated. Letterboxes & intercoms located at the pedestrian entry. Water & gas meters located on the 	
		Bins not located at primary pedestrian entry.	southern boundary adjacent to the driveway. Bins located to rear of building not at main pedestrian entry.	
3.8 Vehicle access	Achieved	Vehicle access one opening per 20m.	One vehicle access point.	Satisfied
		Vehicle entries identifiable from the street, integrated with faced and/or located behind primary building line.	Vehicle entry is identifiable and suitably integrated with the overall façade.	
		Vehicle entries have adequate separation from street intersection.	Adequate separation provided.	
		Vehicle circulation areas avoid headlights shinning into habitable rooms within the development and adjoining properties.	Vehicle circulation areas appropriate.	
		Driveway width minimum for functionality.	6m provided.	
		Driveway designed for 2 way access.	6m provided.	
		Replaced by City's RDLPP clause 6.2.3.	No structures proposed within truncation areas. Plans noted for shrubs not more than 0.75m in truncation.	
3.9 Car and bicycle	Achieved	8 Resident; 2 Visitor	16 Resident (in stores); 5 Visitor	Satisfied
parking		16 (15.25) resident car parking bays; and 4 visitor car-parking bays (A3.9.2)	21 resident bays; and 4 visitor parking bays	
		Maximum parking provision does not exceed double the minimum (38.5)	<38 car parking bays.	
		Car parking areas and vehicle circulation areas designed in accordance with AS2890.1.	Yes – however accessing R11, R12, R13, R21 and R22 is restrictive however still satisfied AS2890.1.	
		Carparking areas not located within street setback and not	Carparking has been moved behind the front setback area. On-	

		visually prominent from the street (A3.9.5).	site garden bed within the front setback area screens the visitor parking bays from the street.	
		Car parking designed, landscaped or screened to mitigate visual impacts when viewed from the dwellings and private outdoor spaces (A3.9.6).	Yes	
		Visitor parking clearly visible from driveway, signed and accessible.	Yes	
		Uncovered at-grade parking is plated with trees at a minimum rate of one tree per four bays.	13 uncovered parking bays at the rear of the site provided with 4 shade trees.	
4.1 Solar and daylight access	Achieved	Minimum 70% dwellings having living rooms and private open space obtaining at least 2 hours direct sunlight; and maximum 15% receiving no direct sunlight	All west-facing windows receive 2.5 hours direct sunlight. All north facing windows receive 4 hours direct sunlight.	Satisfied. Highlight windows include obscure glazing below with a lower sill height.
		(A4.1.1).	All east facing windows receive 3 hours direct sunlight.	
			All units receive >2hrs direct access to sunlight.	
		Habitable rooms one window in external wall, visible from all parts of room, glazed area not less than 10% of floor area and minimum 50% clear glazing.	Provided.	
		Light wells and/or skylights not primary source of daylight to any habitable room.	Not primary source.	
		Building orientated and incorporates external shading devices.	Shading devices provided.	
4.2 Natural ventilation	Achieved	Habitable rooms have openings on at least two walls with straight line distance 2.1m	Provided.	Satisfied
		Minimum 60% of dwellings are naturally cross ventilated; and single aspect apartments included must have ventilation openings oriented to prevailing cooling winds; and room depth no greater than 3*ceiling height.	62.5% naturally cross ventilated units; single aspect not included in 62.5%.	
		Depth of cross-over and cross- through apartments with openings either side not exceed 20m.	<20m.	
		No habitable room relies on light wells.	No reliance solely on lightwells.	
4.3 Size and layout of dwellings	Achieved	Dwellings internal floor areas as per Table 4.3a.	Adequate internal floor spaces provided.	Satisfied
		Habitable room floor areas as per Table 4.3b.	U3&U10 living 3.7m*>4m Remaining units acceptable.	

		Floor to ceiling height 2.7m for habitable rooms, 2.4m for non- habitable rooms, and other as per NCC.	Ceiling height 2.743m provided.	
		Maximum length of single aspect open plan living area 9m (A4.3.4)	U1 plans show 9.03m however City measured 9m.	
4.4 Private open space and balconies	Not achieved.	Private open space to each dwelling as per Table 4.4.	>15m ² to ground floor units >8m ² to 1 bed units >10m ² to 2 bed units	Not satisfied. Does not minimise the need for high screening to meet
		Entire open space not screened, and screening does not obscure outlook.	Screening not to all sides of the balcony, however the screening proposed does obscure/reduce the outlook from adjoining living areas.	privacy requirements.
		Design detailing, materiality and landscaping of the private open space integrate with/compliments building.	Acceptable.	
		Services and fixtures located within private open space not visible from street/integrated into building design.	Acceptable.	
4.5	Achieved	Circulation corridor 1.5m min.	1.5m within circulation corridors.	Satisfied
Circulation and common spaces		Circulation & communal spaces designed for universal access	Yes.	
		Circulation and common space capable of passive surveillance.	Balconies on first and second floor provides passive surveillance.	
		Circulation and common spaces lit without light spill to habitable rooms.	Light spill from common area is unlikely to impact habitable rooms.	
		MOs not directly looking onto communal open space	Yes	
4.6 Storage	Achieved	Store sizes as per Table 4.6. 3m ² for 1 bed dwellings 4m ² for 2 bed dwellings	All store sizes are 4m ²	Satisfied
		5m ² for a 3 bedroom dwelling (A4.6.1)		
		Stores conveniently located, safe, well-lit, secure and subject to passive surveillance.	Stores conveniently located.	
		Stores provided separately from dwellings or within or adjacent to private open spaces (A4.6.3).	Yes	
4.7	Achieved.	Exceed NCC requirements.		Satisfied
Managing the impact of noise		Potential noise sources not adjacent external wall habitable room or within 3m of bedroom (A4.7.2).	Unit 2 no longer adjacent bin store. Noise impacts appropriately managed.	

		Major openings oriented away/shielded from external noise sources.	Major openings located away from AC units, bin stores and parking area.	
4.8 Dwelling mix	Achieved	At least 20% of apartments with differing number of bedrooms.	Total 16 1* 3 bed = 6.25% 3 * 1 bed = 18.75% 12 * 2 bed = 75%	Satisfied
			(25% differing numbers)	
4.9 Universal design	Achieved.	20% of dwellings meet Silver level requirements; or 5% of dwellings designed to Platinum Level (A4.9.1).	Units 5, 6, 12 & 13 meet silver level requirements = 25%. 1.2m x 1.2m landings provided. Internal door widths meet AO: 0.82m	Satisfied
4.10 Façade design	Achieved.	Façade design Façade includes elements that relate to key datum lines of	Acceptable	Satisfied
		adjacent buildings. Building services fixtures integrated in design and not visually intrusive from public realm. (A4.10.2, A4.10.5 and A4.10.6 N/A)	Gas & water maters can be painted to match the development. Location acceptable noting access needs to be maintained for service authorities.	
4.11 Roof design	Achieved.	Roof form or top of building complements façade design and desired streetscape character.	Parapet wall to south side removed. This wall originally screened the roof which will now be visible from the street/approach to the building and front the neighbouring property to the south. The roof pitch of 3 degrees is not considered prominent.	Satisfied
		Building services located on roof not visually obtrusive from street. (A4.11.3 N/A)	Solar panels located on the northern side of the roof on a 3 degree pitch hidden by parapet walls. Downpipes are visible however integrated into the building design/colour palette.	
4.12 Landscape design	Achieved	Submission landscape plan by competent landscape designer.	Provided.	Satisfied.
		Landscaped areas are located and designed to support mature, shade producing trees to open space and the public realm, and to improve outlook and amenity to habitable rooms and open space areas (A4.12.2).	The shade canopy produced by the trees proposed is acceptable with regard to element 3.3 Tree canopy and deep soil areas. The species proposed are acceptable.	
		Planting on structures as per Table 4.12. Building services integrated in design of landscaping.	Planting on balconies has been removed. Details have not been provided in relation to proposed creeper species over arbours.	
4.13 Adaptive reuse	N/A	Not applicable as development not heritage.	N/A	N/A

4.14 Mixed use	N/A	Not applicable as development not mixed use.	N/A	N/A
4.15 Energy efficiency		Incorporate at least one significant energy efficiency initiative; or all dwellings exceed minimum NATHERS requirements for apartments by 0.5 stars.	Solar provided. 5.8 stars (lowest) and 7.5 stars average. Applicant has confirmed through an accredited thermal energy efficiency assessor that this is as per the NatHERS assessment method.	Satisfied
4.16 Water management and conservation	Achieved.	Dwellings are individually metered for water usage. Storm water runoff is managed on-site. Provision of an overland flow path for safe conveyance of runoff from major rainfall events to the local stormwater drainage system.	These requirements can be enforced through a condition, if approved.	Satisfied
4.17 Waste management	Appears to be scope to meet objective however, insufficient information provided to confirm.	Waste storage facilities. Waste Management Plan. Sufficient area for storage of green waste, recycling and general waste (separate) Communal waste storage sited and designed to be screened form view from the street, open space and private dwellings.	The details provided in the Waste Management Plan satisfy the requirements for on-site waste collection including waste storage facilities and area for waste collection.	Satisfied
4.18 Utilities	Achieved.	Utilities located within front setback or on visible parts of room are integrated into design. Developments fibre-to-premises ready. Hot water units, AC condenser units and clotheslines not visually obtrusive.	 N/A – no utilities within the front setback area. Applicant advised building as per NBN requirements. AC on GF adjacent car bays – not visible from neighbouring properties or the street, however the JDRP raised concerns regarding this location – refer to officer comments in report. 	Satisfied
		Laundries are designed and located to be convenient, weather protected and well ventilated and size appropriate.	Laundries provided internally to units (in bathroom or in separate closet) and conveniently located, weather protected and size appropriate.	