TRANSPORT IMPACT STATEMENT

55 Kishorn Road Mount Pleasant

July 2024

Rev A



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Table of Contents

1.	Executive Summary	4
2.	Transport Impact Statement	5
2.1	Proposal	5
2.2	Location	5
2.3	Technical Literature Used	5
2.4	Land Uses	6
2.5	Local Road Network Information	6
2.6	Traffic Volumes	7
2.7	Vehicular Crash Information	7
2.8	Vehicular Parking	8
2.9	Compliance with AS2890 Parking facilities	9
2.9.1	Compliance Overview	9
2.9.2	Comparison of proposed layout to AS2890.01 requirements	9
2.9.3	Vehicle Swept Paths	12
2.10	Bicycle Parking	13
2.11	ACROD Parking	13
2.12	Delivery and Service Vehicles	13
2.13	Calculation of Development Generated / Attracted Trips	14
2.14	Traffic Flow Distribution	14
2.15	Public Transport Accessibility	15
2.16	Pedestrian Infrastructure	17
2.17	Cyclist Infrastructure	17
2.18	Site-Specific Issues and Proposed Remedial Measures	19

Appendices

Appendix 1 - The layout of the proposed development

Appendix 2 - Transport Planning and Traffic Plans

Appendix 3 - Vehicle Turning Circle Plans

1. Executive Summary

Site Context

 The subject site is currently occupied by a family office building within the Mixed-Use Zone (Q2 - Ogilvie Quarter) of the Canning Bridge Activity Centre. The proposed land use is a six-storey residential development comprising 21 units.

Technical Findings

- The proposed development is likely to generate 137 vehicular trips per day and 14 vehicular trips in the peak hour.
 - Taking into account the current traffic generation of the site the total additional traffic on the road network would be 117 vehicular trips per day and 10 vehicular trips in the peak hour.
- According to WAPC guidelines, all developments generating 10-100 VPH can be deemed to have a moderate impact on the network.
 - In context of the surrounding road network the additional traffic from the proposed development can be considered negligible.

Relationship with Policies

- The proposed development offers a total of 24 car parking bays, which is within the range recommended in the Canning Bridge Activity Centre Plan Design Guidelines. There are 10 standard bays, 2 small car parking bays and 12 stacker bays. As the building does not contain accessible dwelling units no ACROD car bays are required.
- Proposed development requires 21 bicycle parking spaces, which can be split between storage areas
 and shared parking. Current plans show 9 shared bicycle parking spaces, and each unit has a designated
 storage area. However, storage units do not seem to be of adequate size for bicycle storage. Therefore,
 storage units are to be amended or an additional 12 public bicycle spaces provided.
- No service or delivery entrance is expected to the site. Waste collection would be arranged from the street.
- The proposed parking area has been checked with a standard B99 Passenger Vehicle 5.2m and a B85 Passenger Vehicle 4.91m.
 - Please refer to the swept path analysis plans provided in Appendix 3.

Conclusion

- As stated above the additional traffic attracted to the subject site is expected to increase by 117 vehicular trips per day and 10 vehicular trips in the peak hour.
- Kishorn Road is classified as Access Street as per MRWA classification with the maximum desirable volume of 3,000 vehicles per day. Currently it is assumed that Kishorn Road carries around 1,000 vehicles per day. Therefore, with the added traffic from the subject site the street would remain well under the maximum desirable traffic volume for access streets.
- Other surrounding roads would absorb significantly less traffic than Kishorn Road, moreover, the traffic would be dispersed so that the impact can be considered negligible.
- In summary KCTT believe that the proposed development will not have a negative impact on the surrounding road network.

2. Transport Impact Statement

2.1 Proposal

Gary Batt Associates Architects engaged KCTT to prepare a Transport Impact Statement (TIS) for the proposed six storey residential apartments building at 55 Kishorn Road, Mount Pleasant.

This report will primarily address the level of impact of the proposed development and the requirements for integration of the proposed development with the surroundings, namely the existing and planned immediate road network.

2.2 Location

Lot Number	3
Street Number	55
Road Name	Kishorn Road
Suburb	Mount Pleasant
Description of Site	The subject site is currently occupied by a family office building within the Mixed-Use Zone (Q2 - Ogilvie Quarter) of the Canning Bridge Activity Centre. The proposed land use is a six-storey residential development containing 21 units.

2.3 Technical Literature Used

Local Government Authority	City of Melville
Type of Development	Residential
Are the R-Codes referenced?	YES
If <u>YES</u> , nominate which:	State Planning Policy 7.3 Residential Design Codes Volume 2 - Apartments (Gazetted on 24 May 2019)
Is the NSW RTA Guide to Traffic Generating Developments Version 2.2 October 2002 (referenced to determine trip generation / attraction rates for various land uses) referenced?	YES
Which WAPC Transport Impact Assessment Guideline should be referenced?	Volume 4 - Individual Developments
Are there applicable LGA schemes for this type of development?	YES
If <u>YES</u> , Nominate:	
Name and Number of Scheme	Local Planning Scheme No.6
Are Austroads documents referenced?	YES
Is the Perth Transport Plan for 3.5 million and Beyond referenced?	NO

2.4 Land Uses

Are there any existing Land Uses	YES
If <u>YES</u> , Nominate:	Financial adviser office – assumed 200m ²

Proposed Land Uses	
How many types of land uses are proposed?	One
Nominate land use type and yield	Residential – 21 apartments:
	 17 x 2-bedroom units
	 3 x 1-bedroom units
	 1 x 3-bedroom unit
Are the proposed land uses complementary with the surrounding land-uses?	YES

2.5 Local Road Network Information

How many roads front the subject site?

Name of Roads Fronting Subject Site / Road Classification and Description:

Road Name	Kishorn Road
Number of Lanes	two way, one lane (no linemarking), undivided
Road Reservation Width	20.0m
Road Pavement Width	6.0m inclusive of on street parking
Classification	Access Road
Speed Limit	50kph
Bus Route	NO
On-street parking	YES
Traffic volumes	No available traffic counts – assumed <1,000 VPD

Name of Other Roads within 400m radius of site, or roads likely to take increased traffic due to the development:

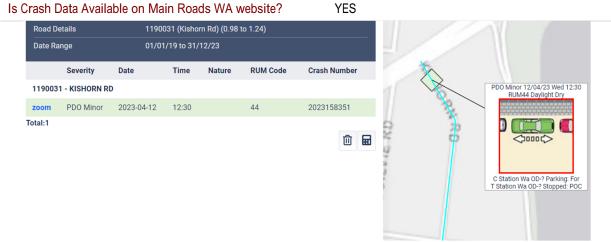
Road Name	Canning Highway
Number of Lanes	two way, two lanes per direction, divided
Road Reservation Width	33.5m (varies)
Road Pavement Width	23m inclusive of a 3m median
Classification	Primary Distributor
Speed Limit	60kph
Bus Route	YES
If YES Nominate Bus Routes	111, 114, 115, 148, 158, 160, 910
On-street parking	NO

2.6 **Traffic Volumes**

			Vehicles per Po	eak Hour (VPH)	Heavy Vehicle %		
Road Name	Location of Traffic Count	Vehicles Per Day (VPD)	AM AM Peak - Peak Time VPH	PM Peak - Peak Time VPH	If HV count is Not Available, are HV likely to be in higher volumes than generally expected?	Date of Traffic Count	If older than 3 years multiply with a growth rate
Canning	East of Sleat Road	49,388	07:30 – 4,175	16:30 – 3,722	6.3%	20/21	
Highway	At Canning Bridge	62,520	07:45 – 5,246	16:30 – 4,921	6.3%	22/23	
Kintail Road	East of Armstrong Road	5,508	07:30 – 605	17:30 – 419	5.8%	19/20	
Reynolds Road	South of Canning Highway	7,071	07:45 – 781	16:45 – 569	4.7%	21/22	
Sleat Road	South of Canning Highway	3,435	07:30 – 349	17:00 - 291	4.2%	18/19	

2.7 **Vehicular Crash Information**

Is Crash Data Available on Main Roads WA website?



The following tables shows crash rates and crash densities in Perth Metropolitan area on local roads and state roads for the period from 2017 to 2022, as obtained from Main Roads WA on the 31st May 2022 by email request:

Crash Density and Crash Rate on Metropolitan Local Roads Network only							
Г	All Cra	shes	Serious Injury Cras	hes (Fatal+Hospital)			
	Average Annual	Average Annual	Average Annual	Average Annua			
	Crash Density	Crash Rate	Crash Density	Crash Rate			
	(All Crashes/KM)	(All Crashes/MVKT)	(Ser. Inj. Crashes/KM)	(Ser. Inj. Crashes/MVKT			
Metro Local Roads - Midblock	2.51	0.95	0.12	0.0			
Metro Local Roads - All	5.23	1.98	0.24	0.09			
Note: Based on 5-years data for the period 2017 to 2021.							

Definitions of acronyms and terms used in this analyse can be found below:

- PDO Crash a crash that results in property damage only (major or minor) and does not require hospitalisation or medical treatment, as listed in Main Roads WA's Crash Analysis Reporting System (CARS).
- KSI Crashes Killed and serious injury crash
- MVKT Million Vehicle Kilometres Travelled.

					Crash Statistics			
Road Name	SLK	Road Hierarchy	Speed Limit	No of KSI Crashes	No of Medical Attention Crashes	No of PDO Major Crashes	No of PDO Minor Crashes	
Kishorn Road	0.98-1.24	Access Road	50kph	0	0	0	1	
No of MVKT Travel	led at Location		App. 1,000 VP	D * 365 * 5	years * 0.2	6 km = 0.4	7 MVKT	
KSI Crash Rate			0 KSI crashes	/ 0.47 MVK	T = 0 KSI cra	ashes/MVK	T	
All Crash Rate		1 crashes / 0.47 MVKT = 2.21 crashes/MVKT						
Comparison with C	rash Density and	Crash Rate Statistics	All crashes rat of 0.95 Crashe		•		•	

Of the above recorded incidents, there does not appear to be any pattern or re-occurring similar incidents that would highlight sections of the road being excessively unsafe. The number and type of incidents recorded are consistent with similar access roads in the area.

Given the class of road and crash types, it is concluded that the road network is operating in a manner consistent with local access road network. The proposed development is not expected to have an adverse impact on road safety at this location.

2.8 Vehicular Parking

Local Government	City of Melville	
Local Government Document Utilised	Canning Bridge Activity Centre Plan Design Guidelines	
Description of Parking Requirements in accordance with Scheme:		

"18.3 Car parking and motorcycle/scooter parking for residential development shall be provided as follows - Dwelling type Q1 & Q2:

- Studio or single bedroom dwellings: Min: 0.75/ Max: 1.0
- Two or three-bedroom dwellings: Min: 1.0/ Max: 1.5
- Residential visitor: N/A
- Motorcycle/Scooter parking: N/A"

Calculation of Parking

Land Use	Requirements	Yield	Total Parking
Residential Apartments	1 bedroom – 0.75/unit	3 x 1-bedroom units	2.25
	2+ bedrooms – 1/unit	17 x 2-bedroom units	17
		1 x 3-bedroom units	1
		Total Car Parking Requirement	21
	Total Volum	ne of Parking Provided by Proponent	24

Justification

The proposed development offers a total of 24 car parking bays, which is within the range recommended in the Canning Bridge Activity Centre Plan Design Guidelines. There are 10 standard bays, 2 small car parking bays and 12 stacker bays.

2.9 Compliance with AS2890 Parking facilities

Which Austroads documents are referenced?	 Australian/New Zealand Standard, Parking facilities, Part 1: Off- street car parking - AS 2890.01
Number of Parking Bays on-site	• 24 bays
Proposed development User Class	 1A - Residential, domestic and employee parking
Driveway category and dimensions	Category 1 access driveway3.5 m driveway width

2.9.1 Compliance Overview

FULL COMPLIANCE PARTIAL DEPARTU	IRE FULL	DEPARTURE NOT APPLICABLE
Element	Compliance	Comment
Car Bay Class 1A		
Aisle width		
Blind Aisle Extension		800mm provided instead of 1m, however as the end bays are for small cars there are no navigability issues.
Single-sided aisle width		
Columns location		
Location of driveway		
Sight distance requirements at access driveways		
Minimum sight lines for pedestrian safety		

2.9.2 Comparison of proposed layout to AS2890.01 requirements

Parking Bay	AS2890.1:2004 Off-street car parking AS2890.6 Off-street parking for people with disabilities					
Type	Parkin	g Bay Length	Parkin	g Bay Width	Aisle \	Vidth
	Required	Proposed	Required	Proposed	Required	Proposed
All bays at 90° (User Class 1A)	5.4m	5.4m 5.1m small bay	2.4m	2.4m 2.3m small bay	5.8m	6.1m

Name other requirements in the AS2890.1:2004 document.

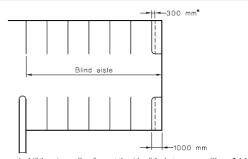
"Blind aisles

At blind aisles, the aisle shall be extended a minimum of 1 m beyond the last parking space, as shown in Figure 2.3, and the last parking space widened by at least 300 mm if it is bounded by a wall or fence.

In car parks open to the public, the maximum length of a blind aisle shall be equal to the width of six 90 degree spaces plus 1 m, unless provision is made for cars to turn around at the end and drive out forwards.

Single-sided aisles

Where there is angle parking on one side of an aisle only and the other side is confined by a wall or other high vertical obstruction closer than 300 mm to the nominal edge of the aisle, to provide maneuvering clearance, the aisle width shall be increased by 300 mm, measured to the vertical obstruction."



*Additional widening required if there is a wall or fence at the side of the last space, see Clause 2.4.1(b)(ii)

DIMENSIONS IN MILLIMETRES

FIGURE 2.3 BLIND AISLE EXTENSION

Transport Impact Statement

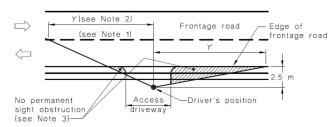
KC01900.000 55 Kishorn Road, Applecross

Blind aisle

Single sided aisles

"Entering sight distance

Unsignalized access driveways shall be located so that the intersection sight distance along the frontage road available to drivers leaving the car park or domestic driveway is at least that shown in Figure 3.2." 800mm provided instead of 1m, however as the end bays are for small cars there are no navigability issues.
300mm provided as required



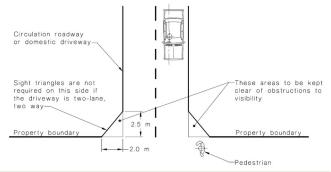
	Distance (Y) along frontage road			
Frontage road speed	m			
(Note 4)	Access driv		Domestic property	
	Desirable 5 s gap	Minimum SSD	access (Note 6)	
40	55	35	30	
50	69	45	40	

Sight distance requirements at access driveways

40m sight distance achievable as required.

"Sight distance to pedestrians

Clear sight lines as shown in Figure 3.3 shall be provided at the property line to ensure adequate visibility between vehicles leaving the car park or domestic driveway and pedestrians on the frontage road footpath."



Minimum sight lines for pedestrian safety

Clear pedestrian sightlines provided.

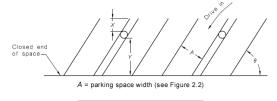
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"Column Location and Spacing

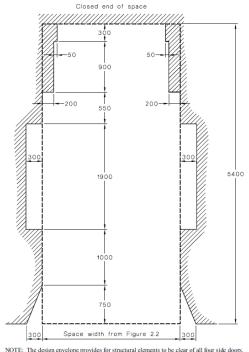
The dimensions for locating columns in a short span structure shall be as given in Figure 5.1. The design envelope around a parked vehicle which is to be kept clear of columns, walls or other obstructions, is shown in Figure 5.2. If this requirement is met, the dimensions in Figure 5.1 will also be achieved.

NOTE: Columns should not be located at the edge of a parking aisle. The difficulty of manoeuvring into a parking space is increased by such a location. It is also desirable to avoid locating a column directly opposite a car door."



Parking angle,	Dimensions, mm		
θ, degrees	X, min.	Y, min.	
30	375	1825	
45	530	2581	
60	650	3161	
75	724	3526	
90	750	3650	

FIGURE 5.1 COLUMN LOCATION



NOTE: The design envelope provides for structural elements to be clear of all four side doors

DIMENSIONS IN MILLIMETRES

FIGURE 5.2 DESIGN ENVELOPE AROUND PARKED VEHICLE TO BE KEPT CLEAR OF COLUMNS, WALLS AND OBSTRUCTIONS

Column position

All proposed columns, as shown on plans in Appendix 1 are positioned at appropriate locations and in accordance with the AS2890.01 requirement.

City of Melville Guidelines and Specifications for Crossovers states:

"3.1.1 Width

Residential crossover width is defined as follows:

- A minimum of 3.0m for all developments.
- A maximum of 4.5m for lots with a frontage of 12.5m or less.
- A maximum of 6m for lots with a frontage in excess of 12.5m.

Commercial crossover width – 4.5m minimum to 10m maximum."

AS 2890.01 Parking facilities Part 1: Off-street car parking states:

"3.2.2 Width requirements at low volume (Category 1) access driveways and connecting roadways

Subject to consideration of traffic volumes on a case-by-case basis, lesser widths, down to a minimum of 3.0 m at a domestic property, may be provided. As a guide, 30 or more movements in a peak hour (in and out combined) would usually require provision for two vehicles to pass on the driveway, i.e. a minimum width of 5.5 m."

Access driveway width

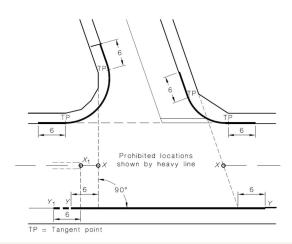
Having in mind that the proposed development is a residential property which would not generate 30 or more movements in a peak hour a 3.5m crossover is proposed.

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"Access driveway location

Driveway Categories 1 and 2 At unsignalized intersections of sub-arterial, collector or local streets with each other or with an arterial road, access driveways in Categories 1 and 2 (see Table 3.1) shall not be located in the sections of kerb shown by heavy lines in Figure 3.1. This requirement shall not apply to accesses to domestic driveways in the kerb section opposite the entering road at any intersection including signalized intersections. Furthermore, it shall not apply to any access driveway serving a property which would otherwise be denied access due to the physical impossibility of meeting the requirement."



Access driveway location

The proposed crossover will be located more than 6m from any intersection tangent point.

2.9.3 Vehicle Swept Paths

Have Vehicle Swept Paths been checked for Parking?

If YES, provide description of performance:

The proposed parking area has been checked with a standard B99 Passenger Vehicle 5.2m and a B85 Passenger Vehicle 4.91m.

YES

The designated vehicles can easily navigate through the entire parking area.

Having in mind that the proposed development is a residential property which would not generate 30 or more movements in a peak hour a 3.5m crossover is proposed. This option prioritises entering vehicles to avoid queuing on the street. Exiting vehicles would have enough space to queue within the development site.

Please refer to the swept path analysis plans provided in Appendix 3.

2.10 Bicycle Parking

Local Government	City of Melville
Reference Document Utilised	Canning Bridge Activity Centre Plan Design Guidelines
D 1 11 CD 11 D 1	

Description of Parking Requirements in accordance with Scheme:

19.5 In Q1 and Q2, all residential developments shall comprise an enclosed, lockable storage area, with a minimum dimension of 1.5m with an internal area of at least 4m2, for each grouped or multiple dwelling(s)."

Parking Requirement in accordance with regulatory documents

Land Use	Requirements	Yield	Total Parking
Residential Apartments	1 / dwelling	21 dwellings	21
	Total Volur	ne of Bicycle Parking Required	21
	Total Volume of Bicycle I	Parking Provided by Proponent	9 bike racks

Justification

Proposed development requires 21 bicycle parking spaces, which can be split between storage areas and shared parking. Current plans show 9 shared bicycle parking spaces, and each unit has a designated storage area. However, storage units do not seem to be adequate in dimension for bicycle storage. Therefore, storage units are to be amended or an additional 12 public bicycle spaces provided.

2.11 ACROD Parking

Class of Building	Class 2
Does this building class require specific provision of ACROD Parking?	NO
Reference Document Utilised	Building Code of Australia
Justification	

As the building does not contain accessible dwelling units no ACROD car bays are required.

2.12 Delivery and Service Vehicles

Local Government	City of Melville
Local Government Document Utilised	Canning Bridge Activity Centre Plan Design Guidelines

Requirements

"19.1 The design of service entrances and delivery docks shall be undertaken in conjunction with adjoining properties where possible. Loading areas at grade which are visible from public areas are not permitted."

Justification

No service or delivery entrance is expected to the site. Waste collection would be arranged from the street.

[&]quot;18.8 Bicycle storage/parking shall be provided for all residential development at a ratio of one bay for every dwelling within a development site and can be comprised within storage areas required as per Clause 19.5 or in shared parking areas or both.

2.13 Calculation of Development Generated / Attracted Trips

What are the likely hours of operation?	Not applicable for residential developments
What are the likely peak hours of operation?	08:00 - 09:00 / 17:00 - 18:00
Do the development generated peaks coincide with existing road network peaks?	YES – partially both peaks
Guideline Document Used	NSW RTA Guide to Traffic Generating Developments
	Not it it calls to frame constantly betalephone
Rates from above document:	Trom territorial to Traine contraining persospinionies
	The Transport of T

Weekday peak hour vehicle trips = 0.5-0.65 per dwelling.

3.5 Office and commercial.

Daily vehicle trips = 10 per 100 m2 gross floor area

Evening peak hour vehicle trips = 2 per 100 m2 gross floor area.

Land Use Type	Rate above	Yield	Daily Traffic Generation	Peak Hour Traffic Generation
Existing				
Financial adviser office	10 VPD /100m² GFA 2 VPH / 100m² GFA	assumed 200m ²	20	4
Proposed				
Residential Apartments	6.5 VPD / dwelling 0.65 VPH / dwelling	21 units	137	14
Total traffic from the proposed development (A)		137	14	
Total Existing Traffic from the subject site (A°)		20	4	
Total Additional	traffic from the proposed	development (A-A ⁰)	117	10

development?

What is the total impact of the new proposed According to WAPC guidelines, all developments generating 10-100 VPH can be deemed to have a moderate impact on the network.

> In context of the surrounding road network the additional traffic from the proposed development can be considered negligible.

2.14 **Traffic Flow Distribution**

How many routes are available for access / egress to	the site? Two routes
Route 1 / Movement 1	
Provide details for Route No 1	To/from the north via Kishorn Road and Canning Highway
Percentage of Vehicular Movements via Route No 1	60%
Route 2 / Movement 2	
Provide details for Route No 2	To/from the south via Kishorn Road and Helm Street
Percentage of Vehicular Movements via Route No 2	40%

Note - For a more detailed plans of the estimated vehicular traffic volumes and distribution please refer to the plans provided in Appendix 2.

2.15 Public Transport Accessibility

How many bus routes are within 400 metres of the subject site? 6 routes		6 routes	
How many rail ro	outes are within 800 metres of the subject site?		1 route
Bus Route	Description	Peak Frequency	Off-Peak Frequency
111	Fremantle Station - East Perth via Canning Highway & Kwinana Highway	10 minutes	No off-peak service
114	Perth - Lake Coogee via Canning Bridge Station and Booragoon Bus Station	15 minutes	1 hour
115	Perth - Hamilton Hill via Booragoon Bus Station	20 minutes	1 hour
148	Fremantle Station – Como via Bicton & Attadale	1 hour	No off-peak service
158	Fremantle Station – Perth via Bicton & Attadale	20 minutes	No off-peak service
160	East Perth - Fremantle Station via Willagee & Booragoon	15 minutes	1 hour
910	Perth - Fremantle Station via Canning Highway	15 minutes	30 minutes
Rail Route	Description	Peak Frequency	Off-Peak Frequency
Mandurah Line	Perth Underground - Elizabeth Quay - Canning Bridge - Bull Creek - Murdoch - Cockburn Central - Aubin Grove - Kwinana - Wellard - Rockingham - Warnbro - Lakelands - Mandurah	5 minutes	10 minutes

Walk Score Rating for Accessibility to Public Transport

62 Good Transit. Many nearby public transportation options.

Significant projects in the area

Canning Bridge Bus Interchange

The Canning Bridge projects include:

- The relocation and construction of the Canning Bridge Bus Interchange in an area located east of the Canning River in the City of South Perth
- The construction of the Manning Road southbound On Ramp onto Kwinana Freeway
- The duplication of Canning Bridge to four lanes in both directions

The City of Melville has been working with the City of South Perth and the State Government to progress the proposed works associated with the Canning Bridge area over many years and in accordance with the approved structure plans.

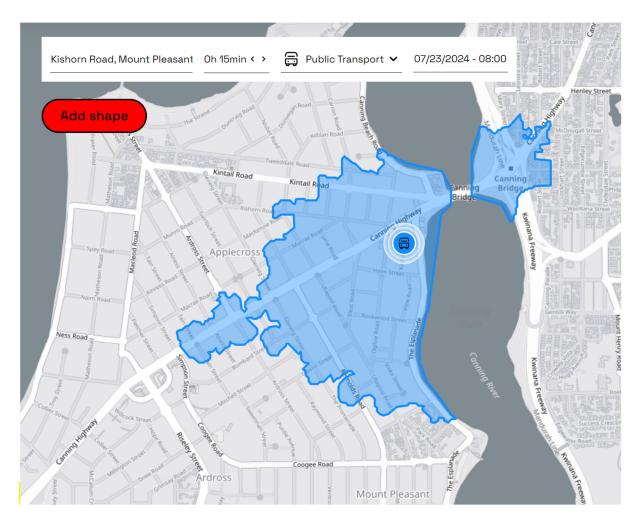


Figure 1 - Current Public Transport Travel Catchment (15 minutes)

2.16 Pedestrian Infrastructure

Describe existing local pedestrian infrastructure within a 400m radius of the site:

Classification	Road Name
"Other Shared Path (Shared by Pedestrians and Cyclists)"	The Esplanade

Most streets within 400m radius have a pedestrian path on at least one side of the road.

Facilitation of pedestrian and cyclist movement is a fundamental strategy for the Canning Bridge Activity Centre Plan. A number of structural, land use, and other strategies are included to encourage walking and cycling as a mode of choice.

It should be noted that Kishorn Road is envisioned as a Low-Speed Pedestrian Environment with On Road Bicycle Network as per Canning Bridge Activity Centre.

Does the site have existing pedestrian facilities	YES
Does the site propose to improve pedestrian facilities?	NO
What is the Walk Score Rating?	

78 Very Walkable. Most errands can be accomplished on foot.

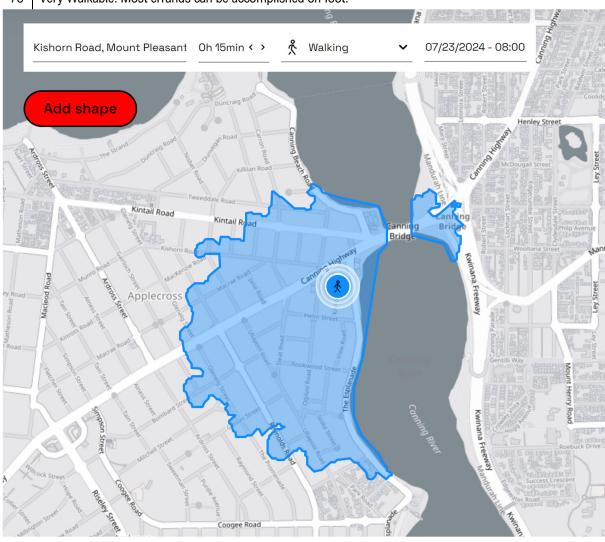


Figure 2 - Walking Catchment (15 minutes)

2.17 Cyclist Infrastructure

Are there any PBN Routes within an 800m radius of the subj	ect site? YES
If YES, describe:	
Classification	Road Name
"Principal Shared Path"	Kwinana Freeway
"Other Shared Path (Shared by Pedestrians and Cyclists)"	The Esplanade
"Good Road Riding Environment"	Helm Street, Wren Street, Ogilvie Street, Forbes Road, Kintail Road, Bombard Street, Tweedale Road
"Bicycle Lanes or Sealed Shoulder Either Side"	Canning Beach Road, Reynolds Road
Are there any PBN Routes within a 400m radius of the subje	ct site? YES
If YES, describe:	
Classification	Road Name
"Other Shared Path (Shared by Pedestrians and Cyclists)"	The Esplanade
"Good Road Riding Environment"	Helm Street, Wren Street, Ogilvie Street, Forbes Road, Kintail Road
"Bicycle Lanes or Sealed Shoulder Either Side"	Canning Beach Road
Does the site have existing cyclist facilities?	NO
Does the site propose to improve cyclist facilities?	YES – bicycle parking provided

Facilitation of pedestrian and cyclist movement is a fundamental strategy for the Canning Bridge Activity Centre Plan. A number of structural, land use, and other strategies are included to encourage walking and cycling as a mode of choice.

It should be noted that Kishorn Road is envisioned as a Low Speed Pedestrian Environment with On Road Bicycle Network as per Canning Bridge Activity Centre.

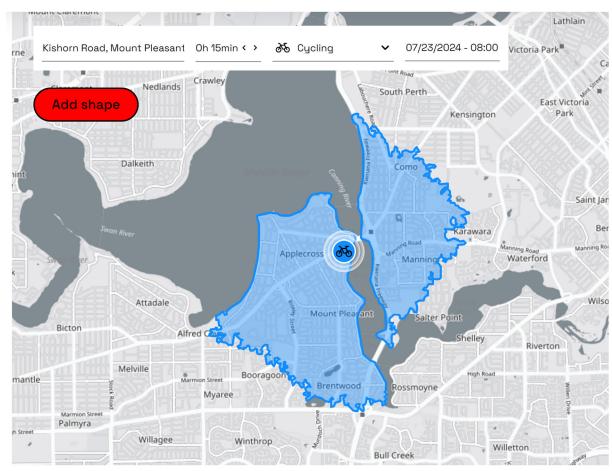


Figure 3 - Cycling Catchment (15 minutes)

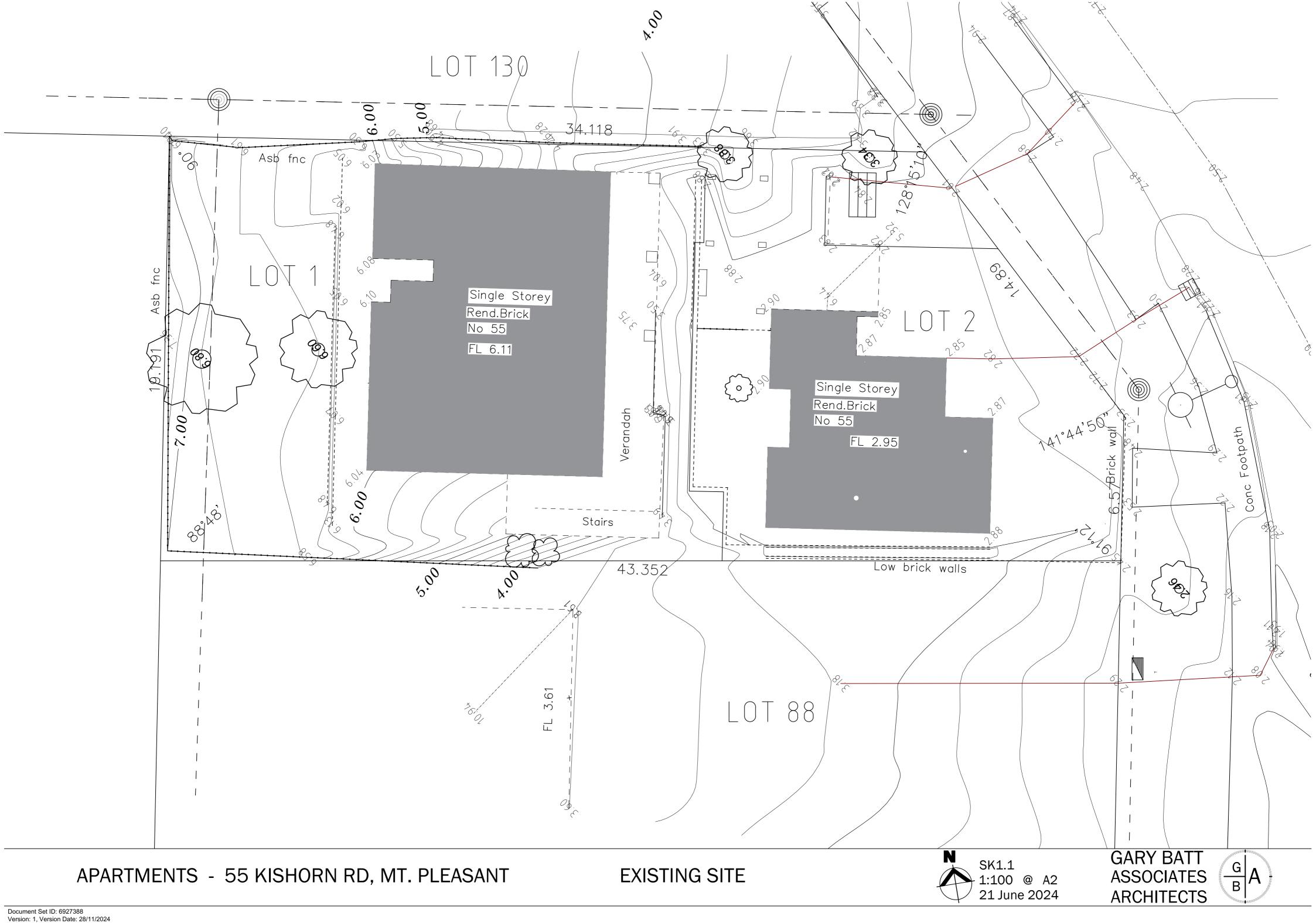
2.18 Site-Specific Issues and Proposed Remedial Measures

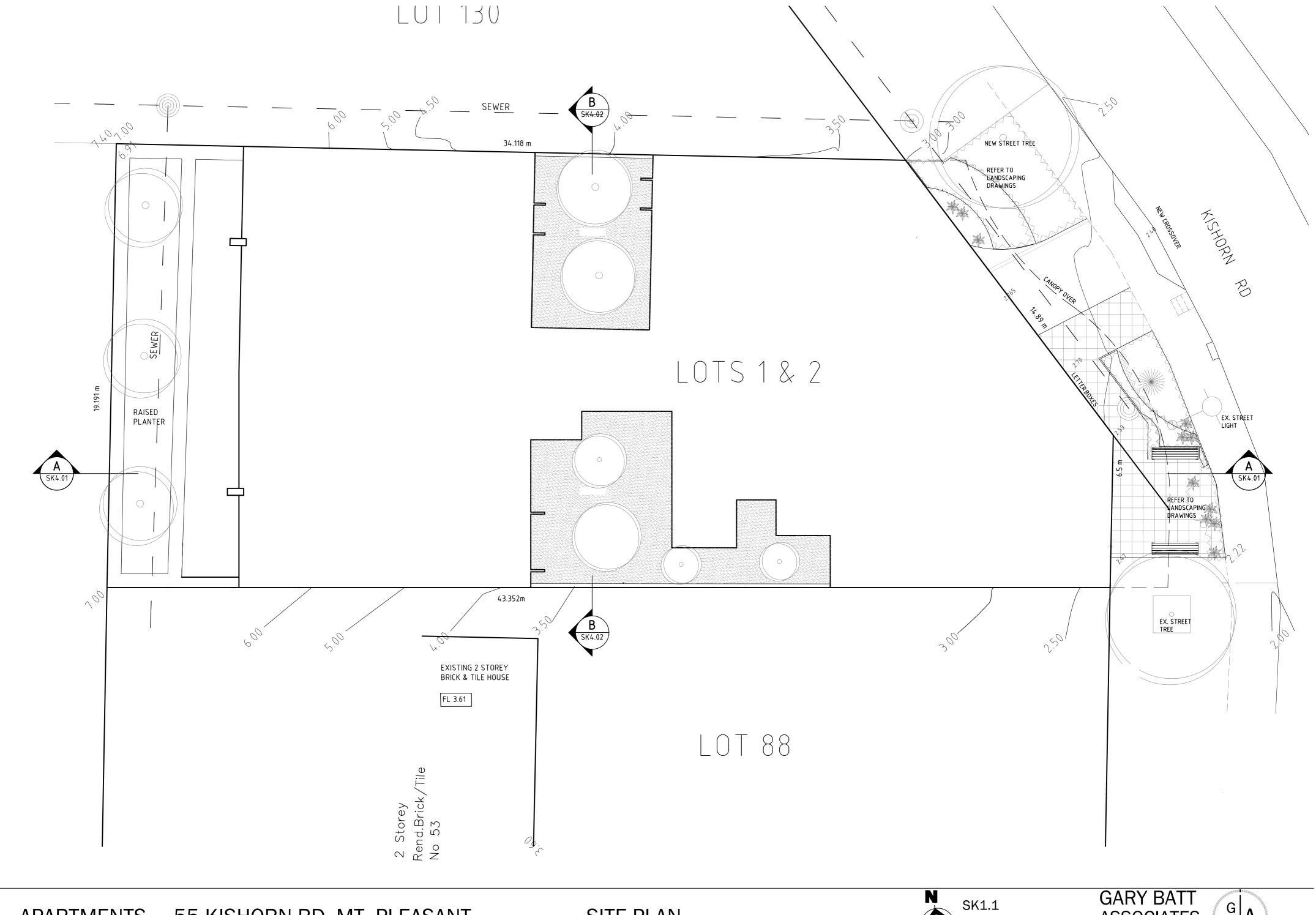
How many site-specific issues need to be discussed?	One
Site-Specific Issue No 1	Traffic impact
Remedial Measure / Response	The subject site is likely to generate 137 vehicular trips per day and 14 vehicular trips in the peak hour. According to WAPC guidelines, all developments generating 10-100 VPH can be deemed to have a moderate impact on the network. In context of the surrounding road network the additional traffic from the proposed development can be considered negligible.

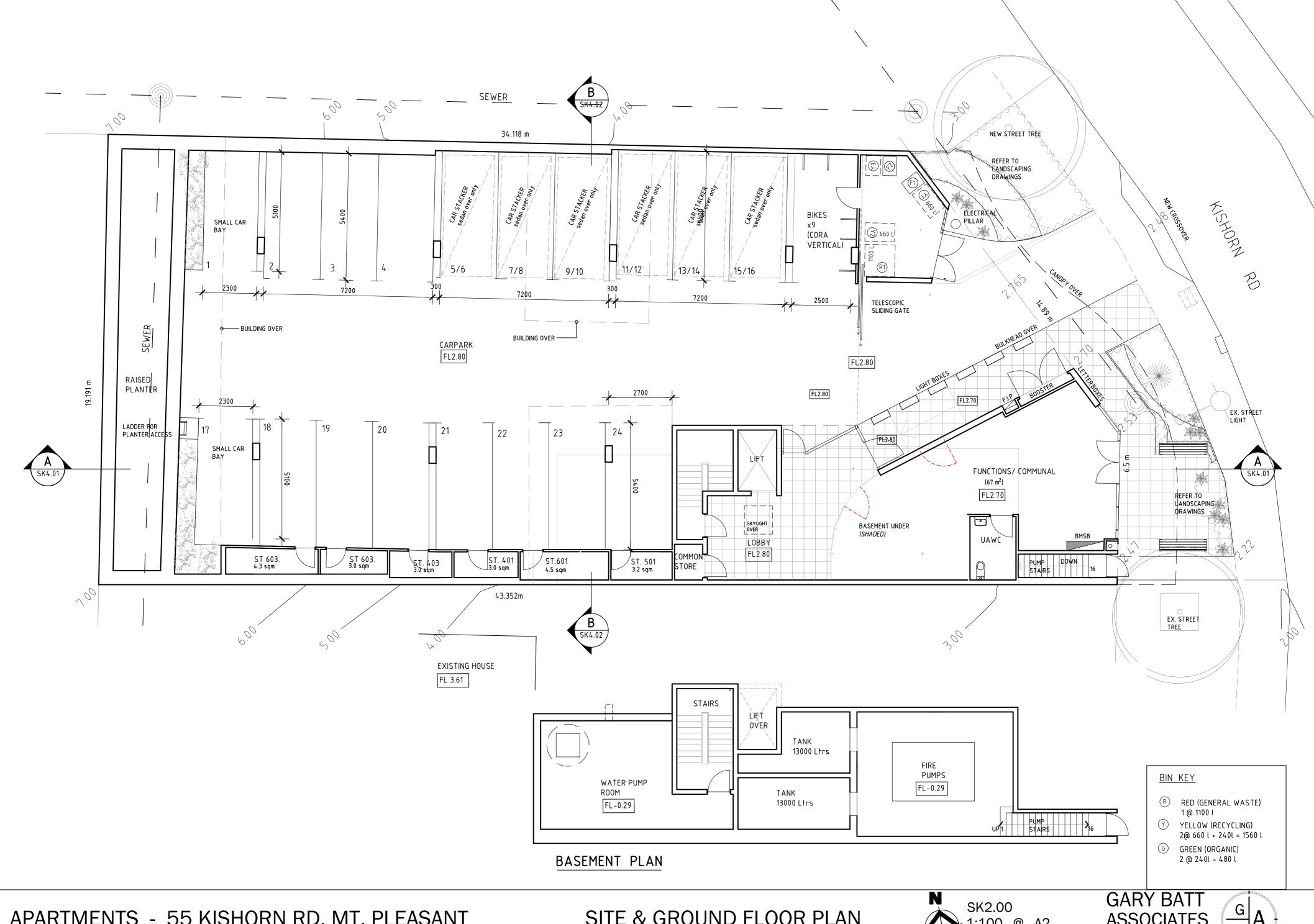
Appendix 1

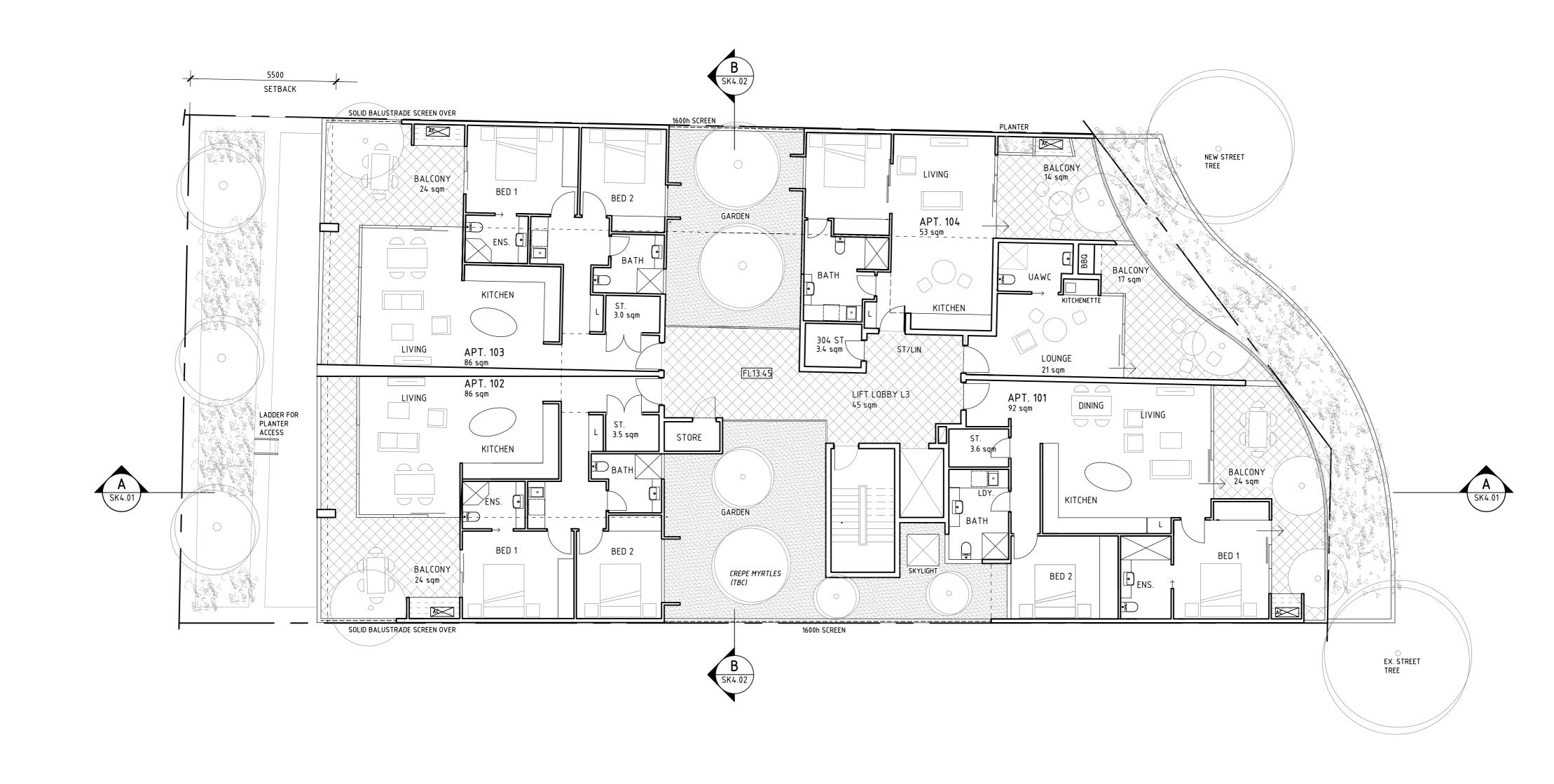
The Layout of the Proposed Development

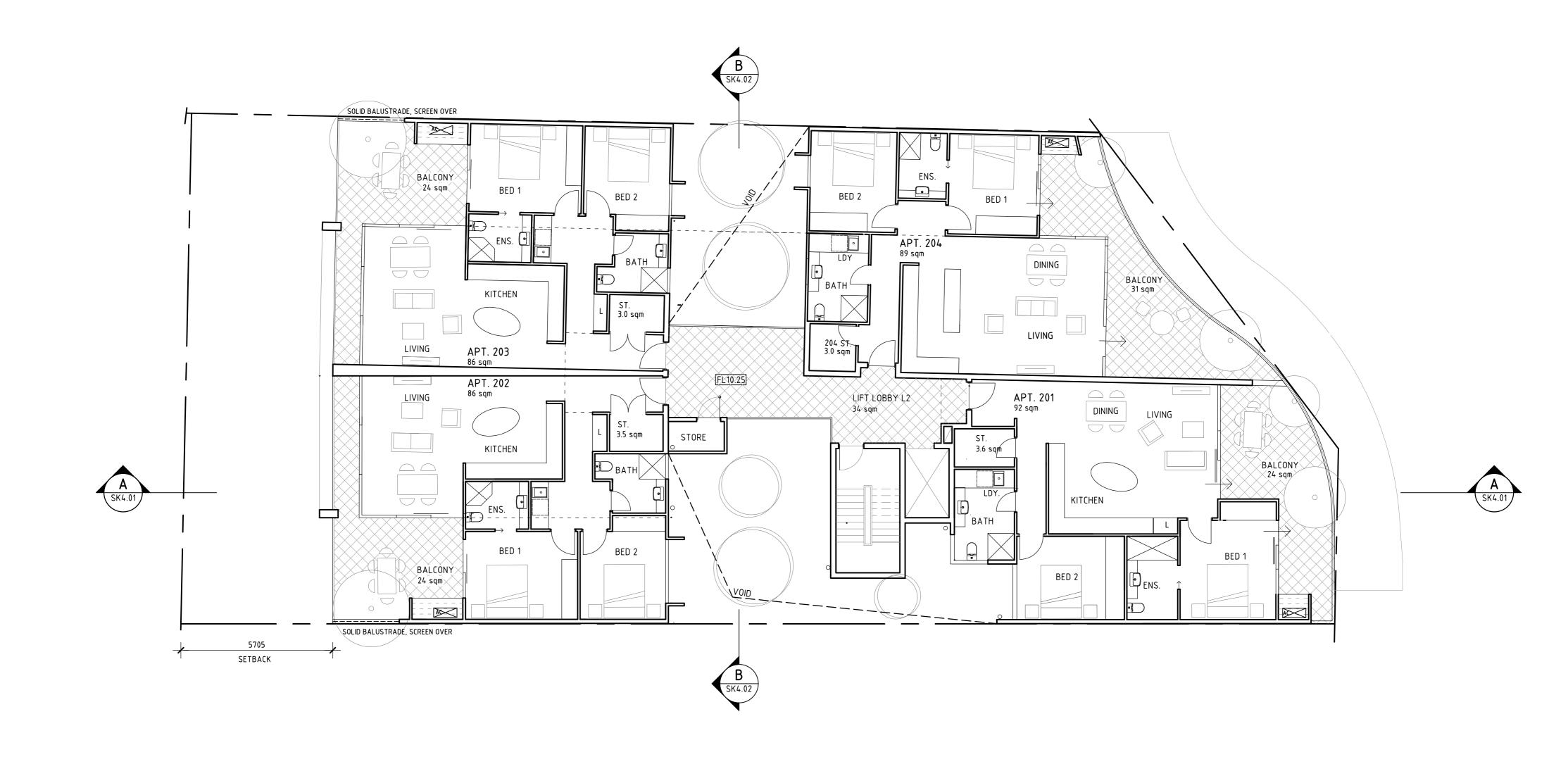
Transport Impact Statement | KC01900.000 55 Kishorn Street, Mount Pleasant



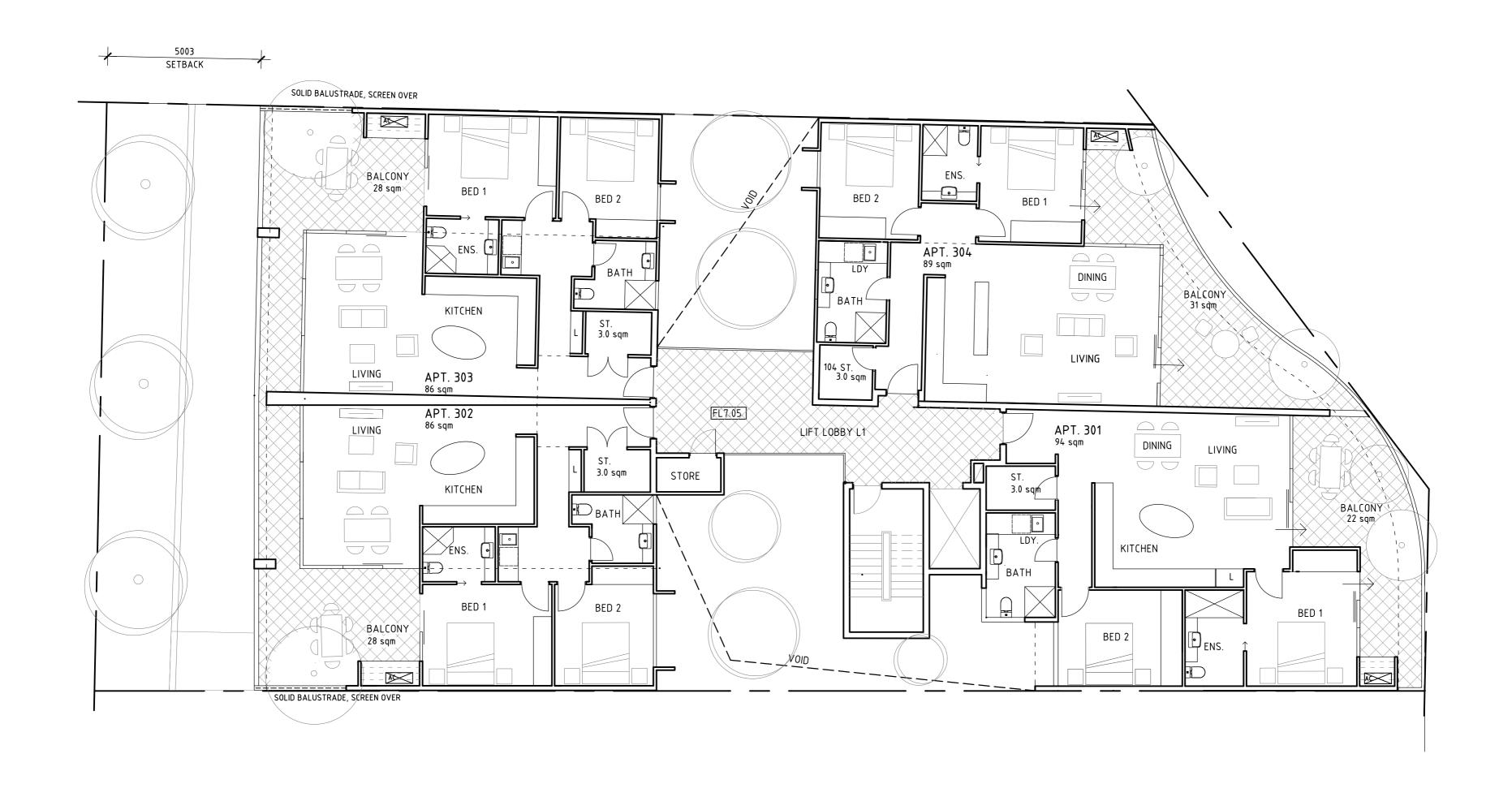


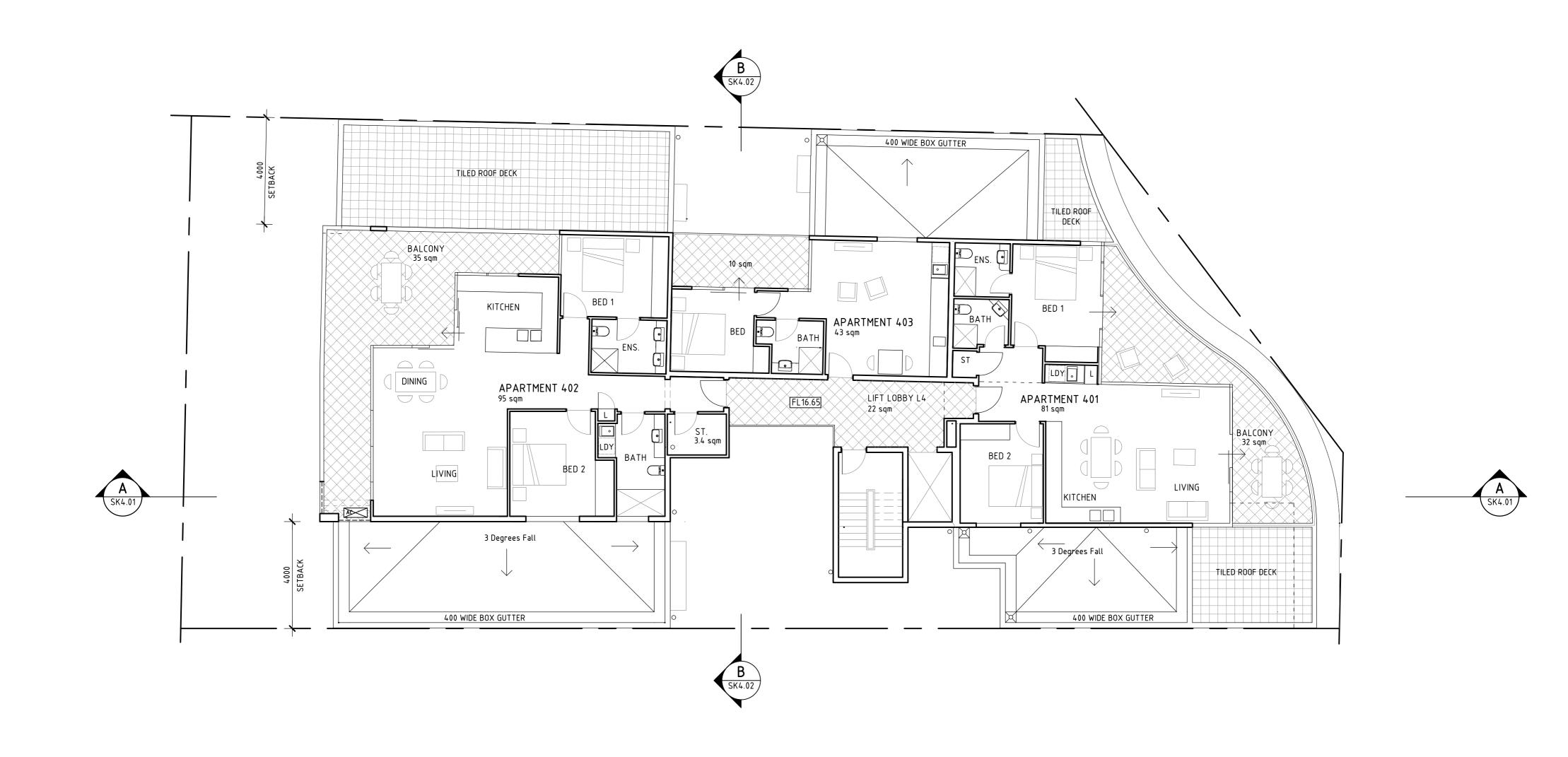




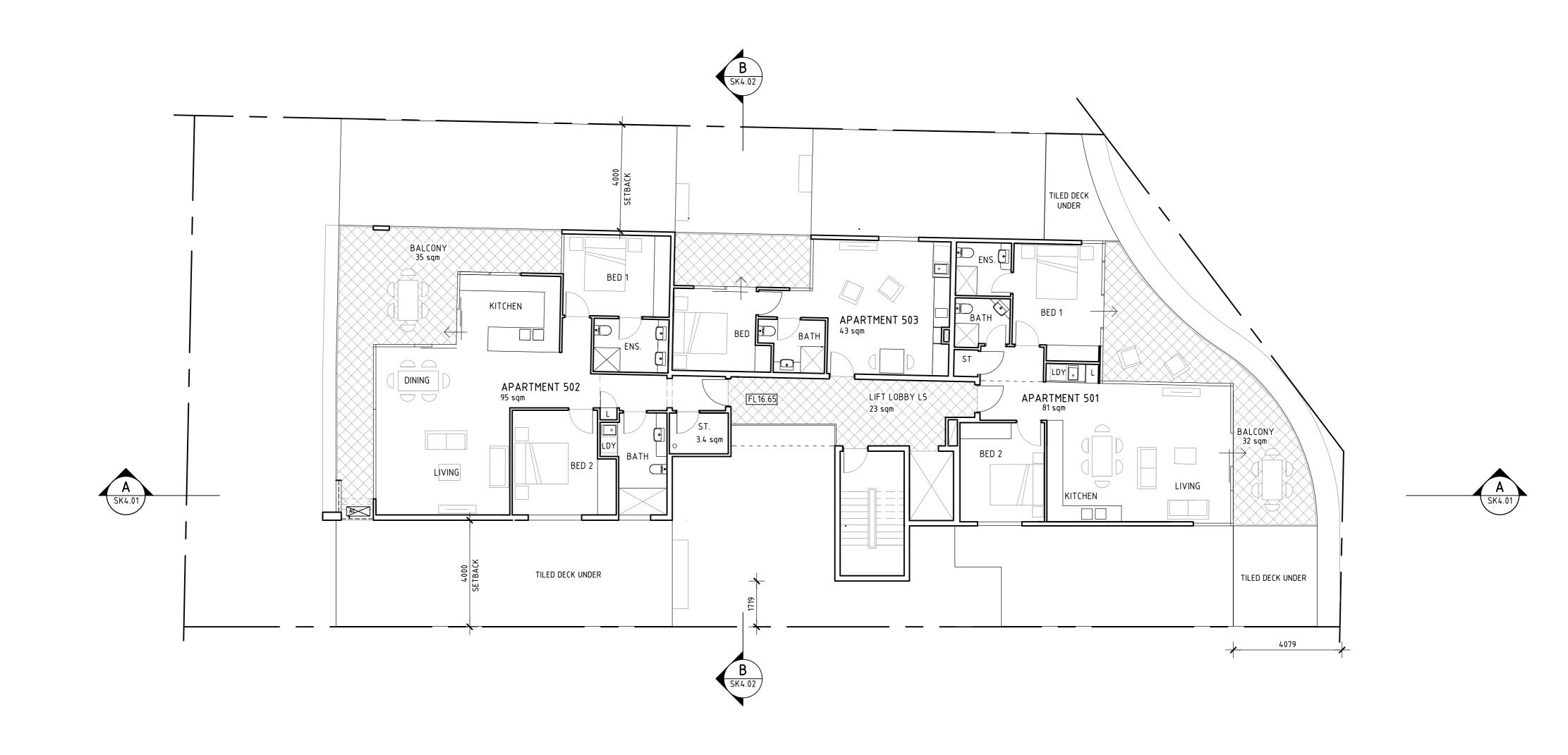


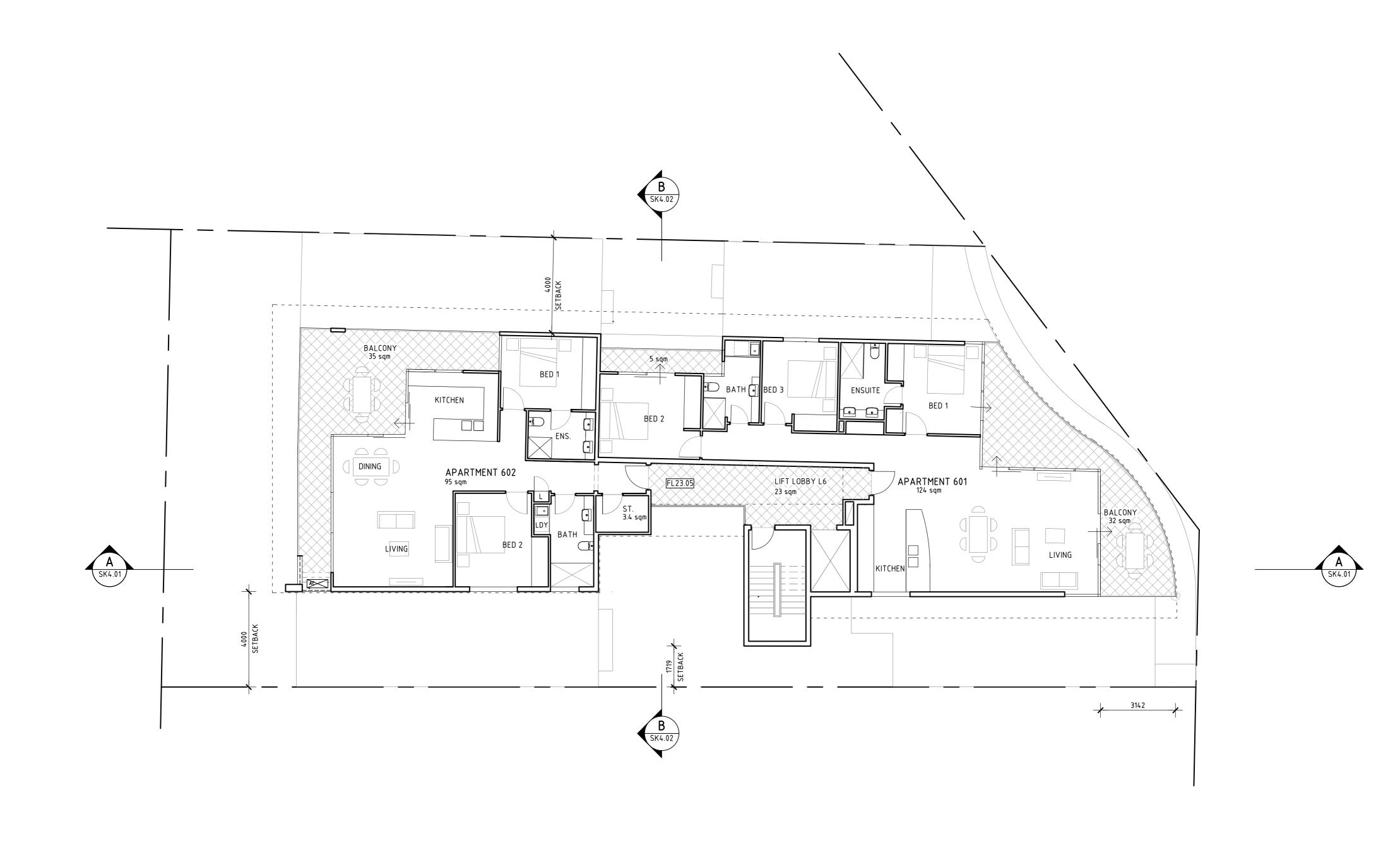
SECOND FLOOR PLAN



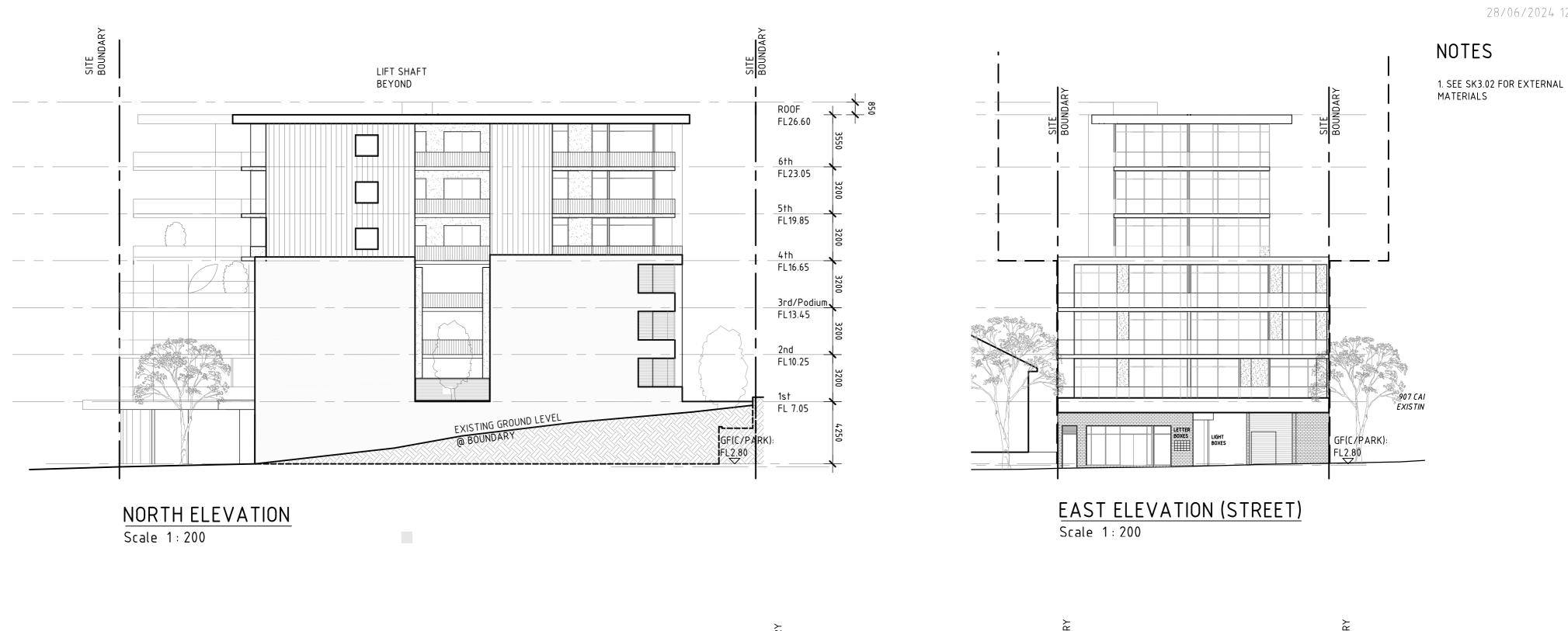


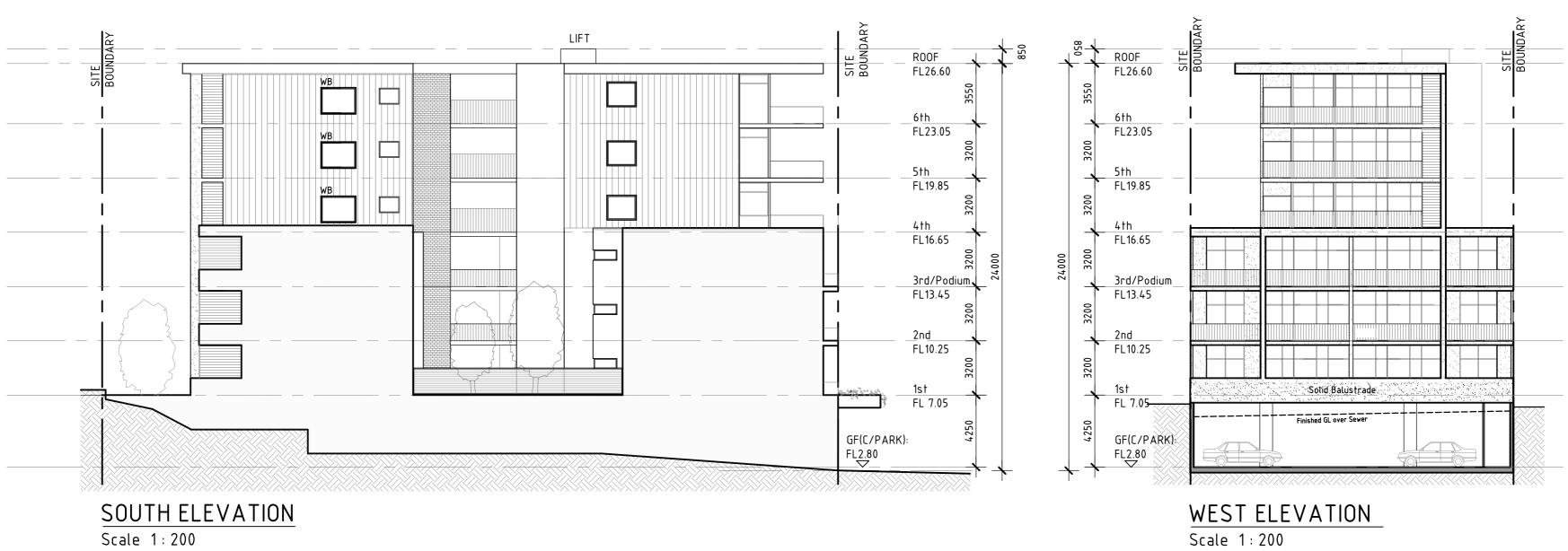










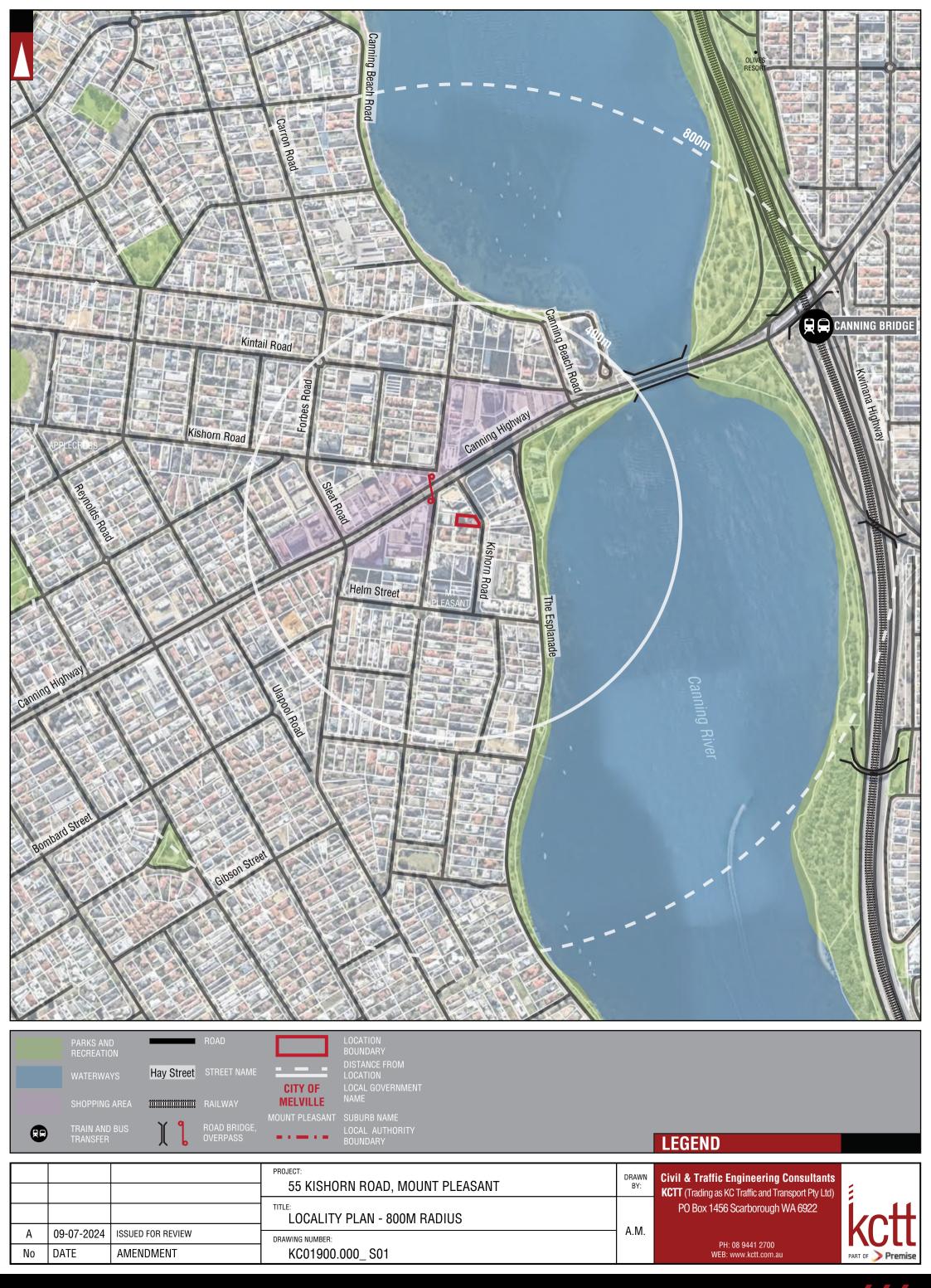


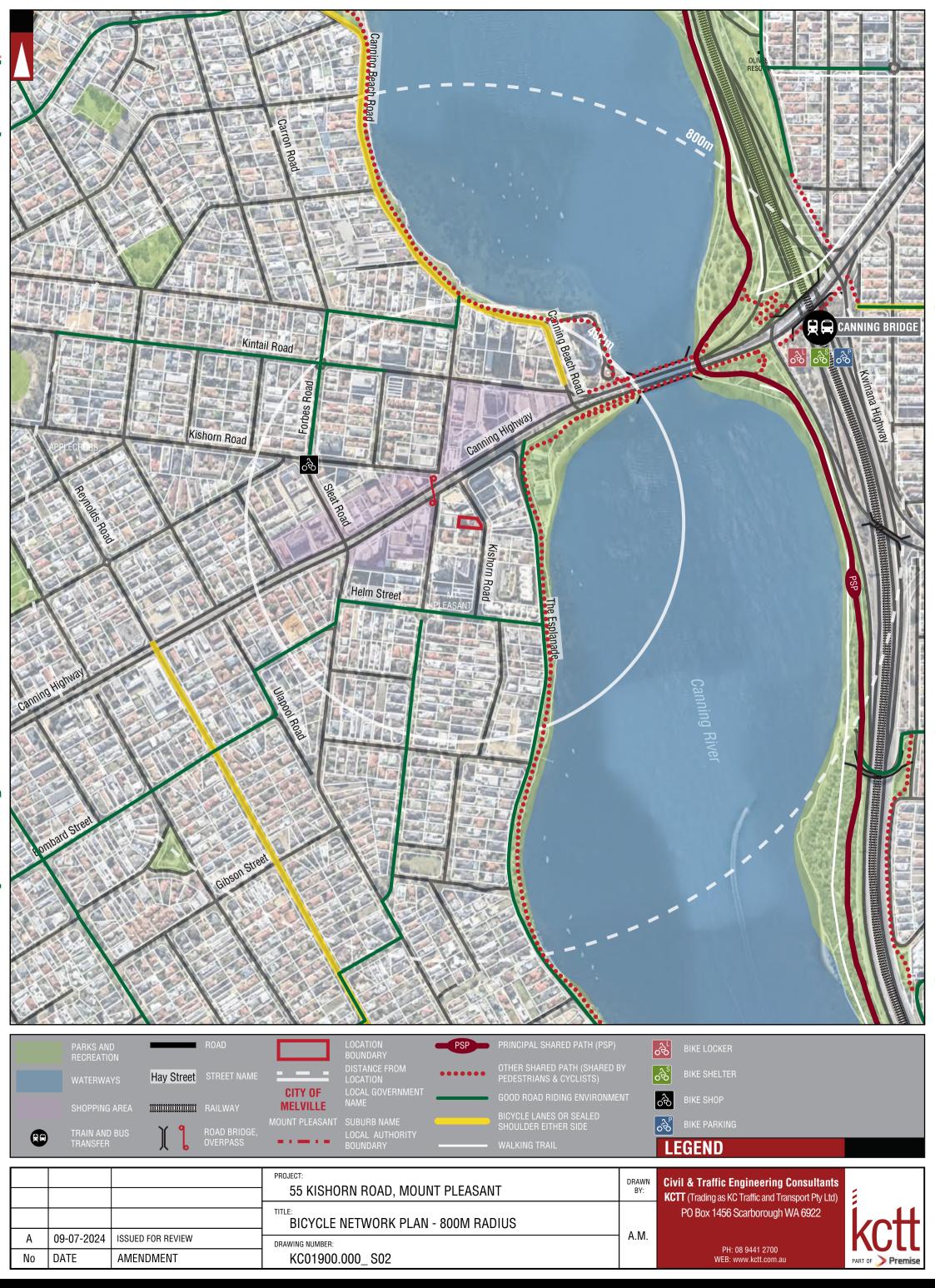


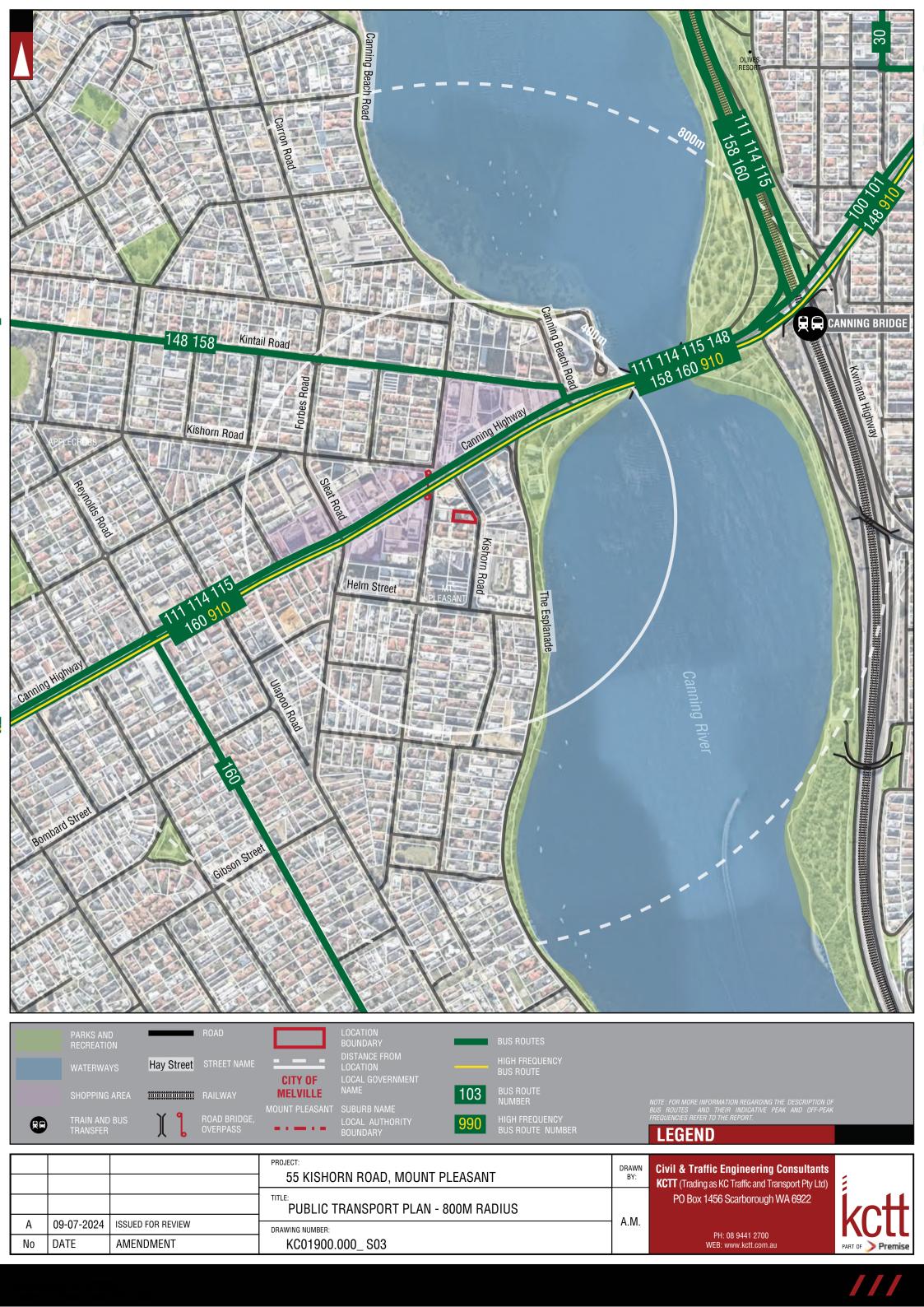
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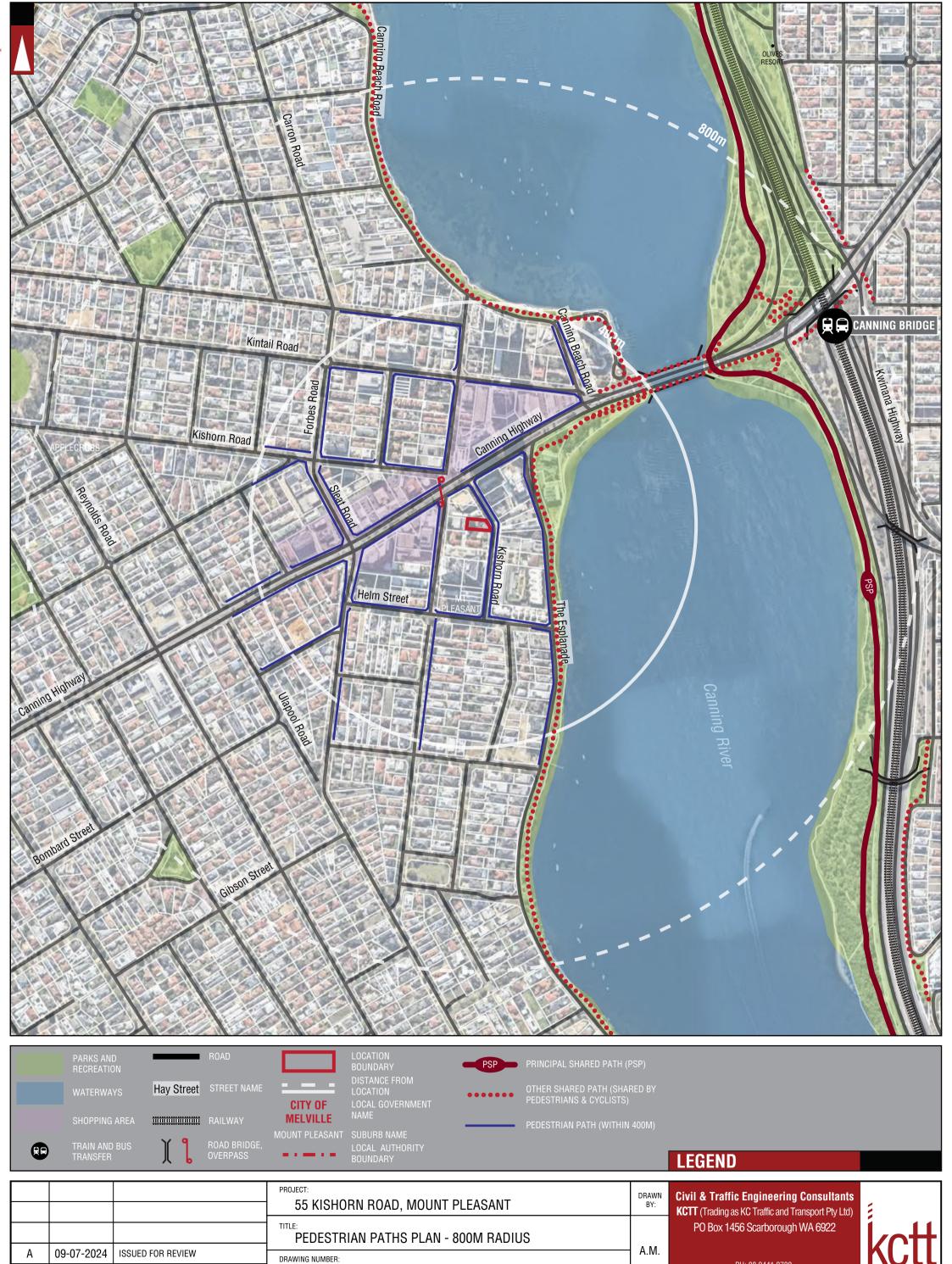
Transport Planning and Traffic Plans

Transport Impact Statement | KC01900.000 55 Kishorn Street, Mount Pleasant









KC01900.000_ S04

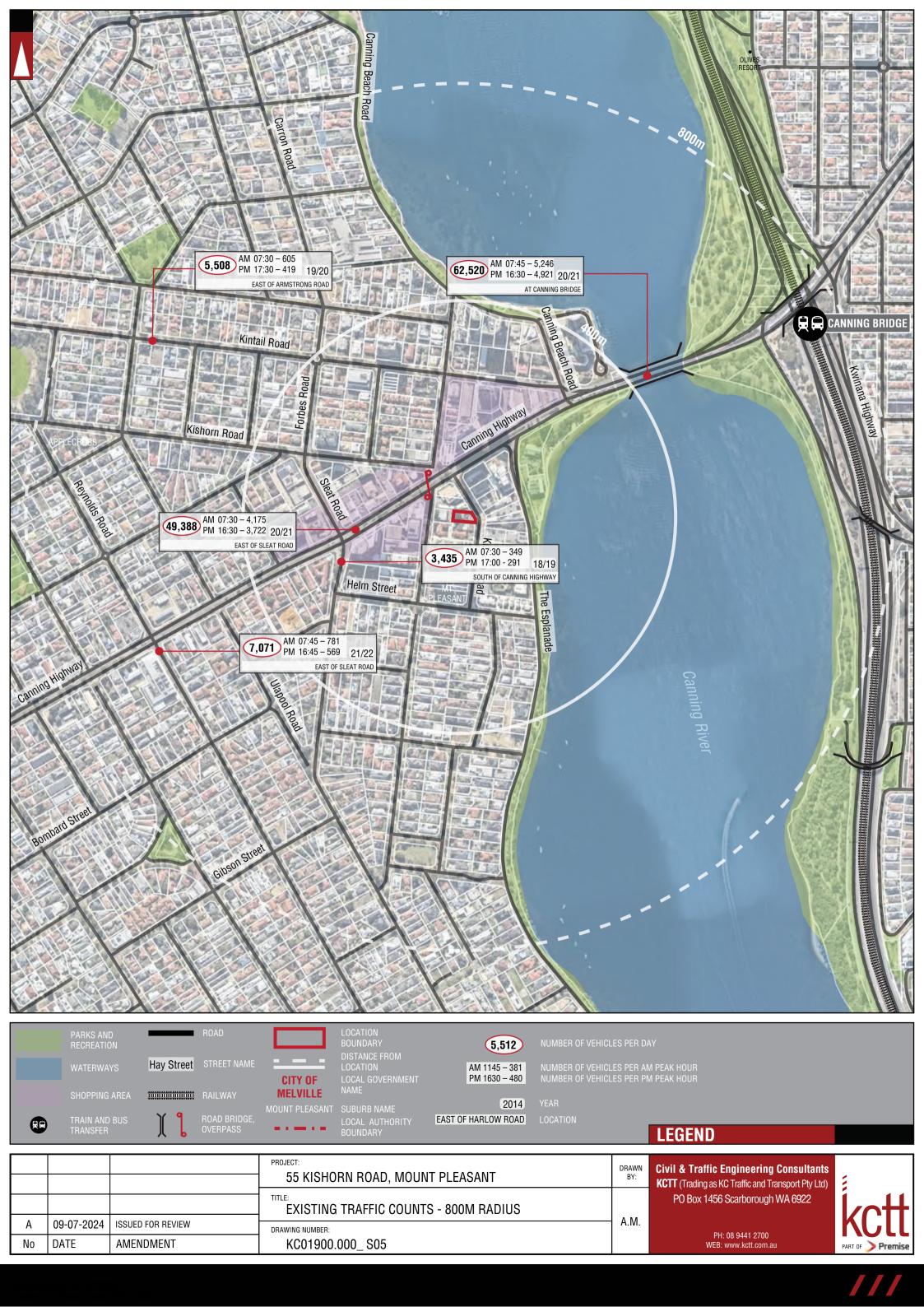
No

DATE

AMENDMENT

WEB: www.kctt.com.au

PH: 08 9441 2700







LOCATION BOUNDARY



ROAD (VARIED WITH ROAD WIDTH)





Total Expected Traffic Generation from the proposed development



Total Expected Traffic Generation from Subject Site on the specific section of road - IN and OUT direction



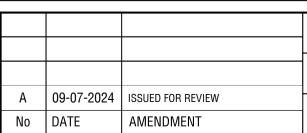
NOTE: THE PLAN IS COURTEOUSY OF GARY BATT ASSOCIATES ARCH LEGEND

			PROJECT: 55 KISHORN ROAD, MOUNT PLEASANT	DRAWN BY:
			, and the second	
			TRAFFIC FLOW DIAGRAM	
Α	09-07-2024	ISSUED FOR REVIEW		A.M.
	00 07 2021	1000EB TOTT TEVELT	DRAWING NUMBER:	
No	DATE	AMENDMENT	KC01900.000_ S06	

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Lewis Road ROAD NAME

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Traffic Flow OUT Direction

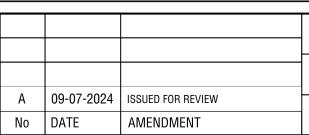
NOTE: THE PLAN IS COURTEOUSY OF GARY B. LEGEND

PROJECT:	DRAWN
55 KISHORN ROAD, MOUNT PLEASANT	BY:
TITLE: TRAFFIC FLOW DIAGRAM - AM PEAK	A.M.
 DRAWING NUMBER: KC01900.000 S07	A.IVI.

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NOTE: THE PLAN IS COURTE **LEGEND**

PROJECT: 55 KISHORN ROAD, MOUNT PLEASANT	DRAWN BY:
JJ KIGHONN NOAD, WOONT I LLAGANT	DT.
TITLE: TRAFFIC FLOW DIAGRAM - PM PEAK	A.M.
DRAWING NUMBER: KC01900.000 S08	A.IVI.

Civil & Traffic Engineering Consultants KCTT (Trading as KC Traffic and Transport Pty Ltd) PO Box 1456 Scarborough WA 6922

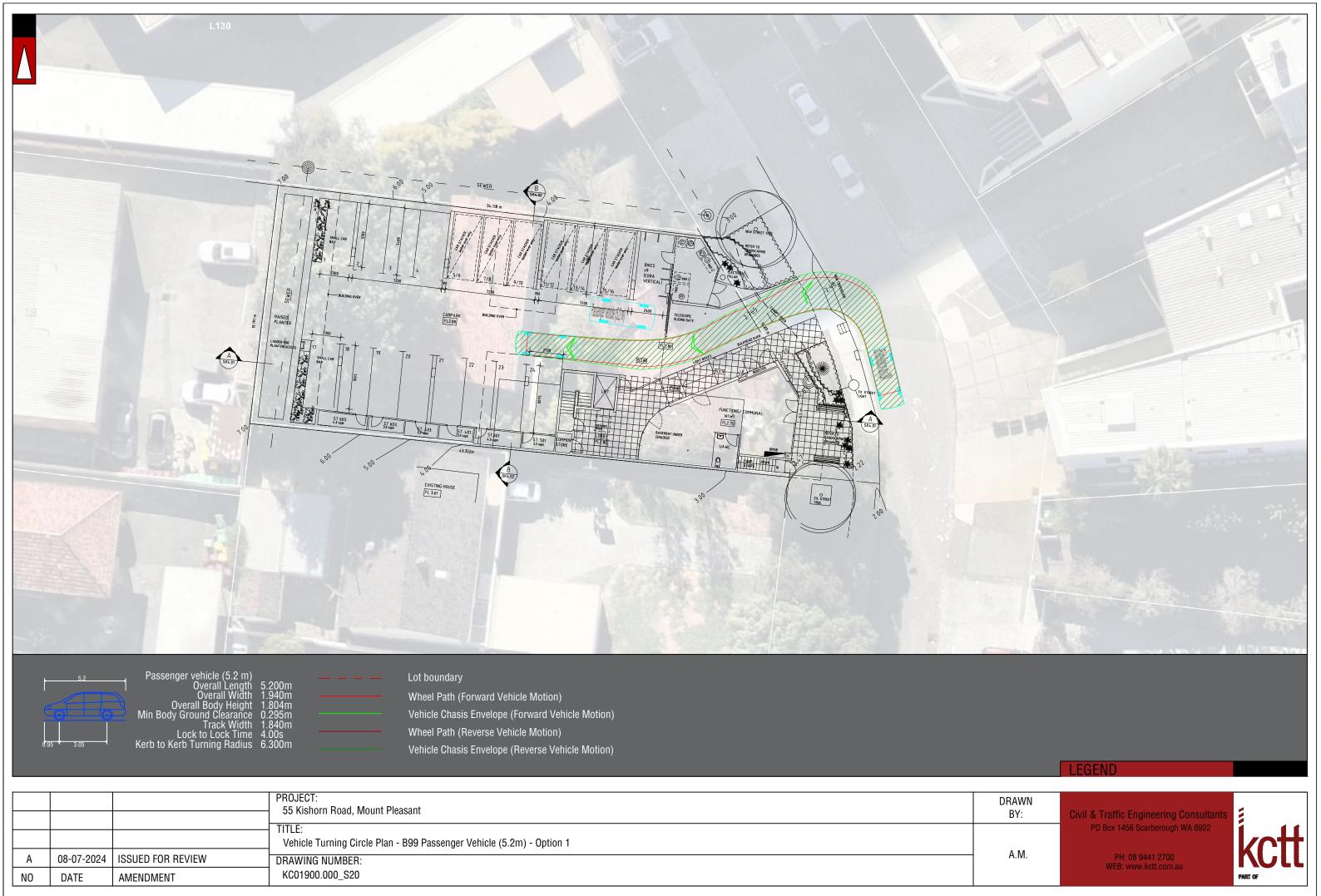


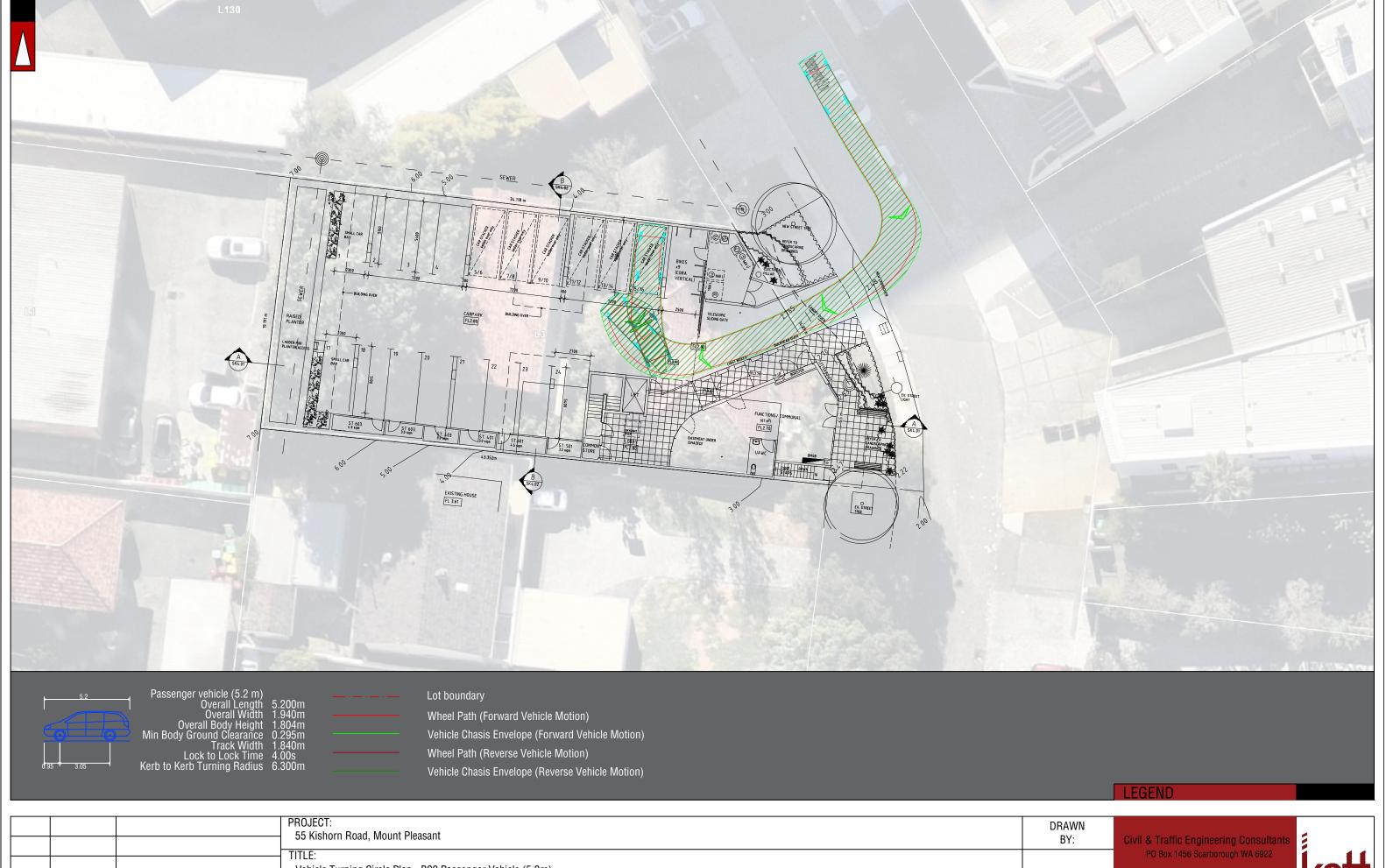
Appendix 3

Vehicle Turning Circle Plan

Transport Impact Statement | KC01900.000 55 Kishorn Street, Mount Pleasant

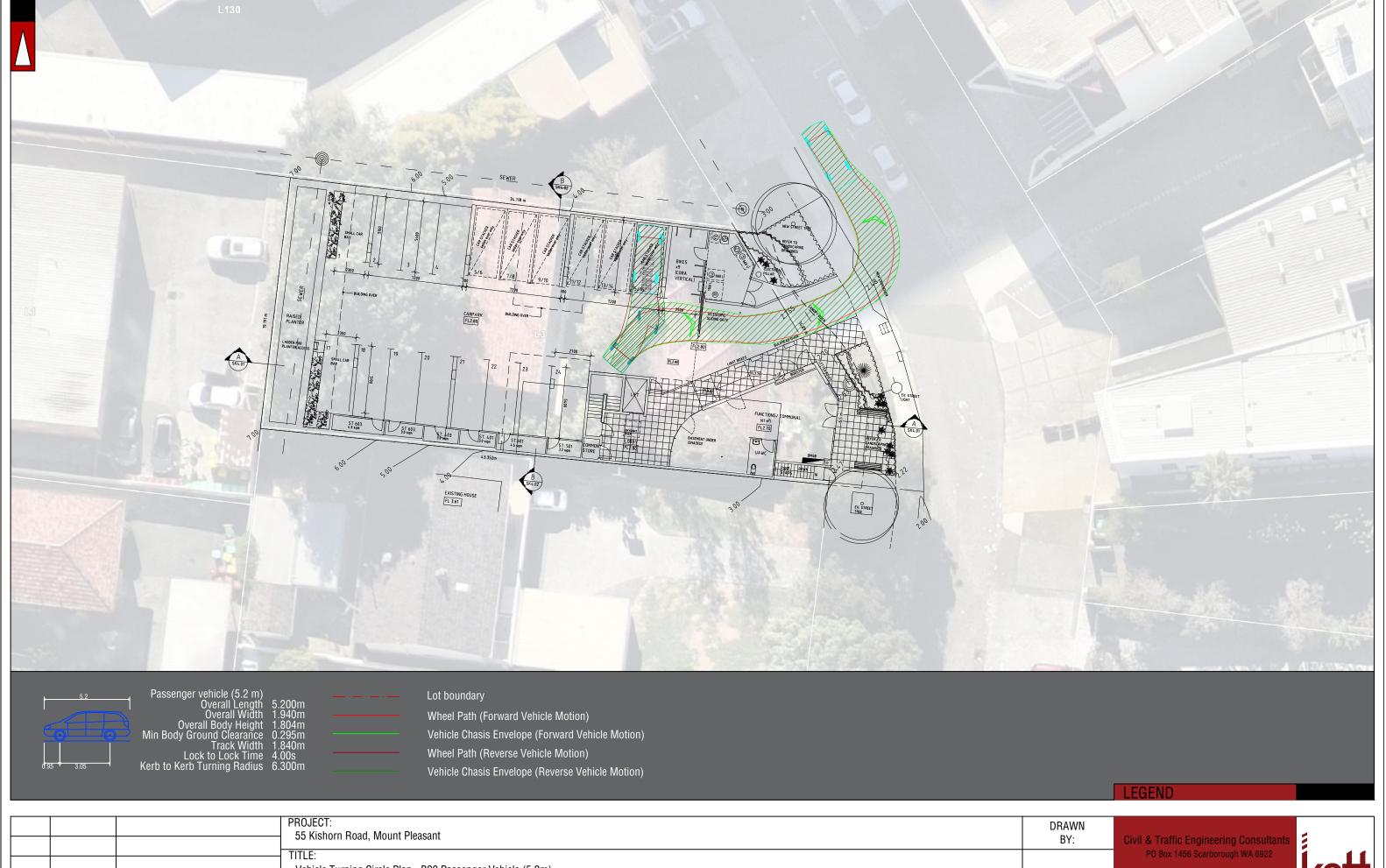
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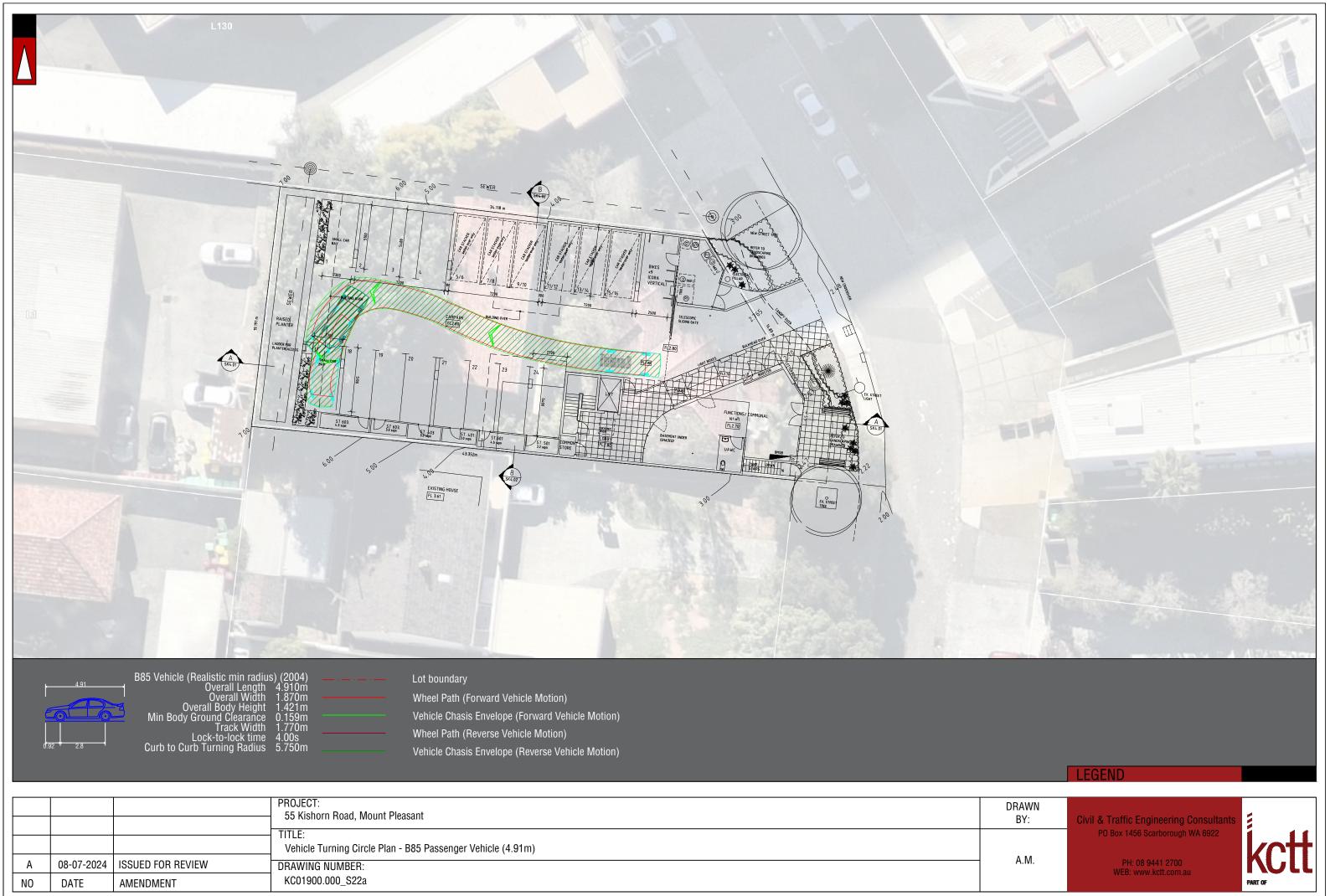
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Α	08-07-2024 ISSUED FOR REVIEW	DRAWING NUMBER:	A.M.
NO	DATE AMENDMENT	KC01900.000_S21a	

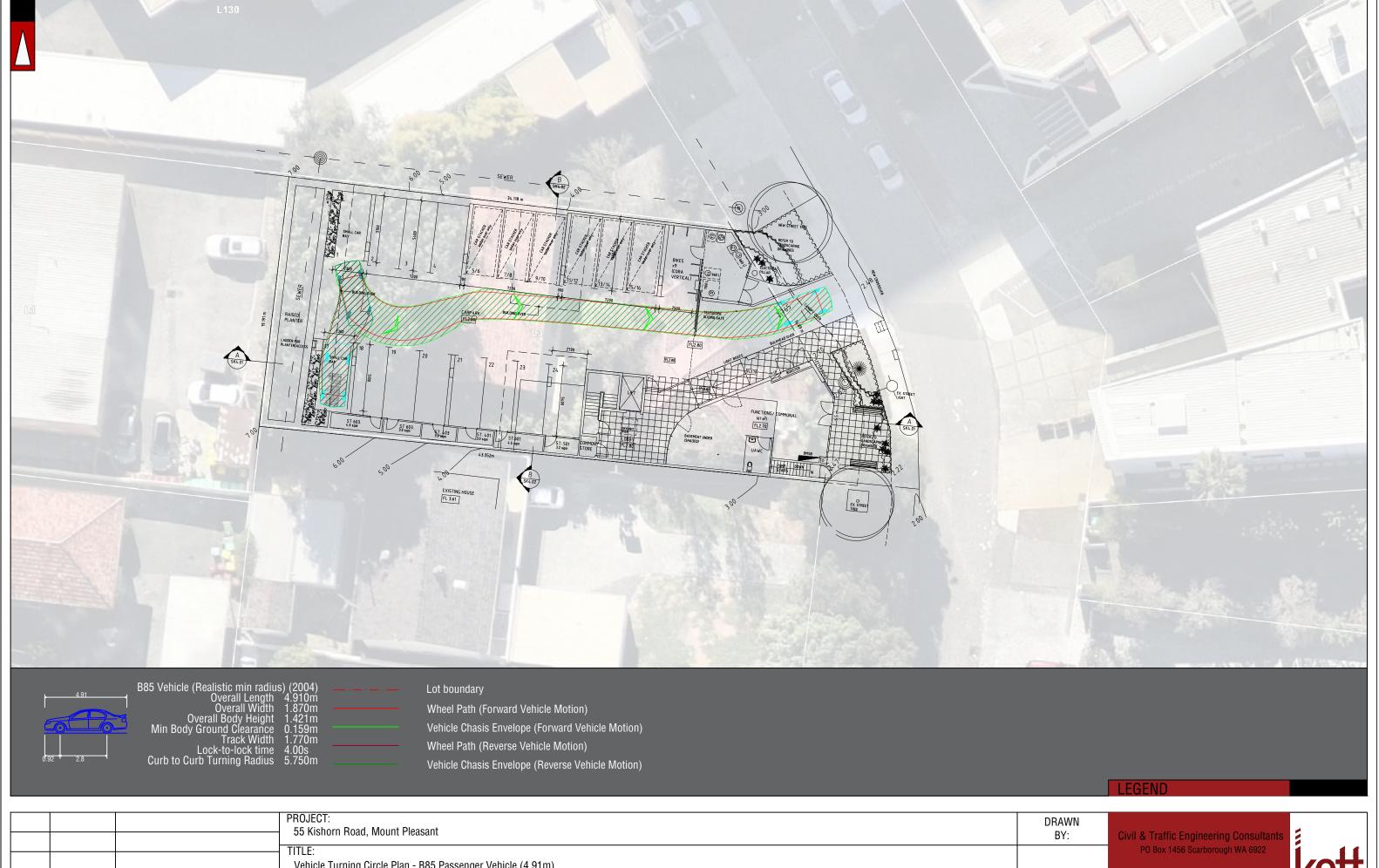




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А	08-07-2024	ISSUED FOR REVIEW	DRAWING NUMBER:	A.M.
NO	DATE	AMENDMENT	KC01900.000_S21b	







-			PROJECT: 55 Kishorn Road, Mount Pleasant	DRAWN BY:
			TITLE: Vehicle Turning Circle Plan - B85 Passenger Vehicle (4.91m)	
	Α	08-07-2024 ISSUED FOR REVIEW	DRAWING NUMBER:	A.M.
	NO	DATE AMENDMENT	KC01900.000_S22b	



