TRANSPORT IMPACT STATEMENT

36 Marlinspike Boulevard Jindalee

August 2019 Rev A



KC01047.000 36 Marlinspike Boulevard, Jindalee

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1. Executive Summary

Site Context

- The project location is 36 Marlinspike Boulevard, Jindalee.
- The subject site is currently vacant. It is fronting Marlinspike Boulevard to the east, Reflection Boulevard to the south, Nicobar Way to the north and Tonna Lane to the west.
- The proposed development is a childcare centre with a capacity for 87 children and 12 staff members.
- The surrounding area is mostly residential.

Technical Findings

- The proposed development is expected to generate up to 372 vehicle trips per day, 42 vehicle trips per hour in the AM peak hour and 37 vehicle trips per hour in the PM peak hour.
- KCTT believe that the surrounding road network will successfully absorb the additional traffic.
- Six main routes are expected to be utilised for accessing / egressing the site:
 - Access / Egress from the site via Nicobar Way > Marlinspike Boulevard > Reflection Boulevard to the east
 - o Access / Egress from the site via Nicobar Way > Marlinspike Boulevard to the north
 - Access / Egress from the site via Nicobar Way > Marlinspike Boulevard to the south
 - Access / Egress from the site via Nicobar Way > Marlinspike Boulevard > Reflection Boulevard to the west
 - o Access / Egress from the site via Tonna Lane > Reflection Boulevard to the east
 - o Access / Egress from the site via Tonna Lane > Reflection Boulevard to the west

Relationship with Policies

- According to the City of Wanneroo's Local Planning Policy 2.3 Child Care Centre, the proposed development requires 25 parking bays.
- The layout plans show 24 parking bays proposed.
- KCTT believe that the 1 parking bay shortfall will not have a negative impact on the operations of the
 proposed development. Child centres, in general, rarely operate at full capacity, for which the parking
 calculations are conducted. Furthermore, the proponent has advised that no more than 9 staff members
 are expected on-site at the same time.
- The proposed parking is expected to successfully cater for all parking requirements of the proposed development.
- Building Code of Australia ACROD Provision the proposed development meets the requirement for 1
 ACROD parking bay.

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2.1 Location

Lot Number Lot 516 (Lot 9029 according to the City of Wanneroo Intramaps)

Street Number 36 (201K according to the City of Wanneroo Intramaps)

Road Name Marlinspike Boulevard (Reflection Boulevard)

Suburb Jindalee

Description of Site The subject site is currently vacant. It is fronting Marlinspike Boulevard to the east,

Reflection Boulevard to the south, Nicobar Way to the north and Tonna Lane to the west. The proposed development is a childcare centre with a capacity for 87 children and 12

staff members.

2.2 Technical Literature Used

Local Government Authority City of Wanneroo

Type of Development - Childcare Centre

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?

Which WAPC Transport Impact Assessment Guideline Volume 4 - Individual Developments

should be referenced?

Are there applicable LGA schemes for this type of YES

development?

If YES, Nominate:

Name and Number of Scheme No. 2

Are Austroads documents referenced? YES
Is the Perth Transport Plan for 3.5 million and Beyond NO

referenced?

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2.3 Land Uses

Are there any existing Land Uses

If YES, Nominate:

Proposed Land Uses

How many types of land uses are proposed? One (1)

Nominate land use type and yield Childcare centre:

- 87 children

NO

12 staff members

Are the proposed land uses complimentary with the YES surrounding land-uses?

2.4 Local Road Network Information

How many roads front the subject site? Four (4)

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

Road 1

Road Name Marlinspike Boulevard

Number of Lanes two way, one lane (no linemarking), undivided

Road Reservation Width Approximately 22.5m
Road Pavement Width Approximately 9m

Classification Urban Local Road / Access Road

Speed Limit 50kph or State Limit

Bus Route NO

If YES Nominate Bus Routes

On-street parking NO

Road 2

Road Name Nicobar Way

Number of Lanes two way, one lane (no linemarking), undivided

Road Reservation Width Approximately 16m
Road Pavement Width Approximately 6m

Classification Urban Local Road / Access Road

Speed Limit 50kph or State Limit

Bus Route NO

If YES Nominate Bus Routes

On-street parking NO

Road 3

Road Name Reflection Boulevard

Number of Lanes two way, one lane (no linemarking), undivided

Road Reservation Width Approximately 25m

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Road Pavement Width Approximately 10m

Classification Significant Urban Local Road / Local Distributor

Speed Limit 50kph or State Limit

Bus Route NO

If YES Nominate Bus Routes

On-street parking YES

Road 4

Road Name	Tonna Lane
Number of Lanes	two way, one lane (no linemarking), undivided
Road Reservation Width	6m
Road Pavement Width	6m
Classification	Urban Local Road / Access Road
Speed Limit	50kph or State Limit
Bus Route	NO
If YES Nominate Bus Routes	
On-street parking	NO

2.5 Traffic Volumes

			Vehicles per P	eak Hour (VPH)	Heavy Vehicle %		
Road Name	Location of Traffic Count	Vehicles Per Day (VPD)	AM AM Peak - Peak Time VPH	PM 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
Marmion Avenue	North of Reflection Boulevard*	22,670	08:00 - 1,843	15:00 – 1,835	N/A	May 2019	-
	South of Reflection Boulevard*	23,465	08:00 - 1,836	15:00 – 1,941	N/A	May 2019	-
Reflection Boulevard	West of Marmion Avenue*	4,329	08:00 – 338	15:00 – 379	N/A	May 2019	-
Camborne Parkway	East of Marmion Avenue*	3,532	08:00 – 334	15:00 – 303	N/A	May 2019	-

Note*- These traffic volumes have been derived from SCATS data obtained through Main Roads Traffic Map. Although SCATS should not be used as a sole source of data it is a good tool to verify fluctuations in flow.

2.6 Vehicular Crash Information

Is Crash Data Available on Main Roads WA website?
Period of crash data collection
Comments

NO

01/01/2014 - 31/12/2018

KCTT have accessed the Main Roads WA reporting centre on 05.08.2019. No crash data was available in the above period for the following locations:

- Marlinspike Boulevard, Reflection Boulevard, Nicobar Way and Tonna Lane in the vicinity of the development.
- Intersections of Marlinspike Boulevard with Reflection Boulevard and Nicobar Way
- Intersection of Reflection Boulevard and Tonna Lane

2.7 Vehicular Parking

Local Government City of Wanneroo

Local Government Document Utilised Local Planning Policy 2.3 - Child Care Centres

Description of Parking Requirements in accordance with Scheme:

1 bay for every staff member,

9 bays for 54 children plus 1 per 8 children in excess of 54.

Calculation of Parking

Land Use	Requirements	Yield	Total Parking
	1 bay for every staff member	12 staff members	12
Childcare	9 bays for 54 children plus 1 per 8 children in excess of 54	87 children	13.1
	Total (Car Parking Requirement	25.1 ~ 25
	Total Volume of Parkin	g Provided by Proponent	24

Justification

According to the City of Wanneroo's Local Planning Policy 2.3, the proposed development requires 25 parking bays. The plans show 24 parking bays proposed (11 parking bays for parents on-site and 12 parking bays for staff members with access from Tonna Lane) which is a shortfall of 1 parking bay. KCTT believe that this shortfall will not have a negative impact on the operation of the development. It should be noted that childcare centres rarely operate at full capacity. Furthermore, the proponent has provided KCTT with information that no more than 9 staff members will be at the same time at the development.

Having all the above in mind, KCTT believe that all parking requirements will be satisfied at the proposed childcare centre.

Have Vehicle Swept Paths been checked for Parking? YES

If YES, provide description of performance:

KCTT have checked the proposed internal parking area and on-street staff parking bays with the B99 passenger vehicles. No navigability issues were found.

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2.8 Bicycle Parking

Local Government City of Wanneroo

Reference Document Utilised N/A

Justification

The City of Wanneroo does not provide any bicycle parking requirements for this type of development. The plans do not show any bicycle parking proposed.

2.9 ACROD Parking

Class of Building Class 9b

Does this building class require specific provision of ACROD Parking?

YES

Reference Document Utilised Building Code of Australia

Description of Parking Requirements:

Class 9b — (b) Other assembly building — (i) up to 1000 carparking spaces; - 1 space for every 50 carparking spaces or part thereof

Parking Requirement in accordance with regulatory documents

Land Use	Requirements	Yield	Total Parking
Childcare	1 space for every 50 carparking spaces or part thereof		1
	Total Volume of ACROD Park	ing Required	1
Total Volume of ACROD Parking Provided by Proponent		1	

Justification

The proposed development meets the requirement for 1 ACROD bay.

2.10 Delivery and Service Vehicles

Guideline Document used as reference

NSW RTA Guide to Traffic Generating Developments

Requirements

Other uses - 1 space per 2,000m2

Parking Requirement in accordance with regulatory documents

Land Use	Minimum Requirements	Yield	Total Parking
Childcare Centre	1 space per 2,000m2	812m ²	1
	Total Volume of Service and	Delivery Parking Required	1
	Total Volume of Service and Delivery Park	ing Provided by Proponent	N/A

Justification

The above requirements are only stated as a guide. KCTT believe that a childcare centre does not require a specific bay for service and delivery, since all deliveries can be conducted outside of peak hours of operation, when all drop-off parking bays are likely to be empty. Furthermore, the waste collection can be conducted safely within the road reserve.

2.11 Calculation of Development Generated / Attracted Trips

What are the likely hours of operation?

What are the likely peak hours of operation?

Do the development generated peaks coincide with

existing road network peaks?

Guideline Document Used

Rates from above document.

06:30 - 18:30

AM 08:00 - 09:00; PM 16:00 - 17:00

N/A

NSW RTA Guide to Traffic Generating Developments

Child Day Care – 0.8 trips in AM Peak and 0.7 trips in

PM Peak per child

It should be noted that these rates are given for a 2-hour peak period. For the purposes of this report KCTT assumes that for no more than 60% of the two-hour traffic volume will be attracted to the development in an hour that will represent the peak for the subject site.

Given that the WAPC Transport Assessment Guidelines and NSW RTA Guide to Traffic Generating Developments do not offer daily vehicular trip generation rate for these land uses KCTT have assumed the following to apply:

Childcare centres vehicular daily trips can be assumed to be 4 VPD per child and 2 VPD per employee. Each parent will make 2 vehicular trips when dropping off the child to the day care centre and 2 vehicular trips when picking the child up. Employees will make 1 vehicular trip arriving to work, and another vehicular trip when leaving work.

In our experience, childcare centres tend to operate with an 85% utilisation rate of the licenced capacity over the year due to a number of days that children attend (this ranges from 2 to 5 days a week) and seasonal adjustments (end of year and when people return to work from maternity leave). Therefore, the expected average daily operative maximum of this childcare facility can be estimated as 74 children. However, in the calculations below, a conservative approach has been applied **showing the theoretical maximum number of children, under assumption that all children are driven to school and there are no siblings in the centre.**

Land Use Type Rate above	Rate above	Yield	Daily Traffic Generation	Peak Hour Traffic Generation	
				AM	PM
Childcare	4 VPD per child+2 VPD per employee 0.48 VPH AM Peak per child 0.42 VPH PM Peak per child	87 children 12 employees	372	42	37
	,	Total:	372	42	37

Does the site have existing trip generation / attraction? What is the total impact of the new proposed development?

NO

The proposed development is expected to generate up to 372 vehicular trips per day, 42 vehicular trips in the morning peak and 37 vehicular trips in the evening peak hour. According to the WAPC Guidelines this is a moderate impact to the surrounding network.

KCTT believe that the surrounding network will successfully absorb the generated traffic.

2.12 **Traffic Flow Distribution**

How many routes are available for access / egress to 6 Main Routes the site?

Route 1	
Provide details for Route No 1	Access / Egress from the site via Nicobar Way > Marlinspike Boulevard > Reflection Boulevard to the east
Percentage of Vehicular Movements via Route No 1	70% [260 VPD; AM 29 VPH; PM 26 VPH]
Route 2	
Provide details for Route No 2	Access / Egress from the site via Nicobar Way > Marlinspike Boulevard to the north
Percentage of Vehicular Movements via Route No 2	5% [19 VPD; AM 2 VPH; PM 2 VPH]
Route 3	
Provide details for Route No 3	Access / Egress from the site via Nicobar Way > Marlinspike Boulevard to the south
Percentage of Vehicular Movements via Route No 3	10% [37 VPD; AM 4 VPH; PM 3 VPH]
Route 4	
Provide details for Route No 4	Access / Egress from the site via Nicobar Way > Marlinspike Boulevard > Reflection Boulevard to the west
Percentage of Vehicular Movements via Route No 4	9% [33 VPD; AM 4 VPH; PM 3 VPH]
Route 5	
Provide details for Route No 4	Access / Egress from the site via Tonna Lane > Reflection Boulevard to the east
Percentage of Vehicular Movements via Route No 4	5% [19 VPD; AM 2 VPH; PM 2 VPH]
Route 6	
Provide details for Route No 4	Access / Egress from the site via Tonna Lane > Reflection Boulevard to the west
Percentage of Vehicular Movements via Route No 4	1% [4 VPD; AM 1 VPH; PM 1 VPH]

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

2.13 **Vehicle Crossover Requirements**

Are vehicle crossovers required onto existing road YES

networks?

How many existing crossovers? None How many proposed crossovers? One (1)

If there are greater numbers of new crossovers, than existing, provide justification:

As the subject site was not occupied previously, the proposed development will have to provide a new connection to the surrounding road network.

How close are proposed crossovers to existing intersections?

Approximately 6.7m from the tangent point at the intersection of Nicobar Way and Marlinspike Boulevard.

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Does this meet existing standards?

YES

Justification

According to the AS2890.1:2004 Off-street Car Parking, access driveways are not to be located within the first 6m from the intersection's tangent points.

2.14 Public Transport Accessibility

How many bus routes are within 400 metres of the subject site?

None

The closest bus routes run on Marmion Avenue, which is within 800m of walking distance from the subject site.

How many rail routes are within 800 metres of the subject site?

None

Walk Score Rating for Accessibility to Public Transport

N/A

Are there any planned routes within the subject development's catchment area?

YES

According to the Lot 9 Jindalee - Local Structure Plan 88 (Part 2 Explanatory Section) - 'PTA has advised that Route 482 is planned to run a service between future Alkimos and Clarkson train stations, passing through the LSP area by way of neighbouring Lot 12 and Lot 10 sites to the north and south respectively.

Route 480, like Route 482, will run a service between the future Alkimos and Clarkson train stations, but with a deviation to the Butler Station, via Marmion Avenue. The Lot 9 LSP will be served by this service through embayed bus stops along Marmion Avenue.' (January 2012, page 65).

2.15 **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)" Reflection Boulevard Pedestrian Paths Pedestrian paths are available on almost every road within 400m radius. Does the site have existing pedestrian facilities YES Does the site propose to improve pedestrian facilities? NO What is the Walk Score Rating?

2.16 **Cyclist Infrastructure**

Car-Dependent. Almost all errands require a car.

Are there any PBN Routes within an 800m radius of the sulf YES, describe:	ubject site? YES
Classification	Road Name
" Other Shared Path (Shared by Pedestrians and Cyclists)"	Reflection Boulevard; Marmion Avenue; Camborne Parkway
" Good Road Riding Environment"	Marlinspike Boulevard (south of Reflection Boulevard); Reflection Boulevard; Chambered Way; Midsummer Avenue; Faba Lane; Temptation Drive; Mansfield Avenue; Newmarket Parade; Romsey Glade
" Bicycle Lanes or Sealed Shoulder Either Side"	Reflection Boulevard; Marmion Avenue; Camborne Parkway
Are there any PBN Routes within a 400m radius of the sub	oject site? YES

If YES, describe:	
Classification	Road Name
" Other Shared Path (Shared by Pedestrians and Cyclists)"	Reflection Boulevard
" Good Road Riding Environment"	Marlinspike Boulevard (south of Reflection Boulevard); Reflection Boulevard; Chambered Way; Midsummer Avenue; Faba Lane; Temptation Drive
" Bicycle Lanes or Sealed Shoulder Either Side"	Reflection Boulevard
Does the site have existing cyclist facilities?	YES
Does the site propose to improve cyclist facilities?	NO

2.17 Site-Specific Issues and Proposed Remedial Measures

How many site-specific issues need to be discussed?

Site-Specific Issue No 1

Remedial Measure / Response

One (1)

Parking Shortfall

According to the City of Wanneroo's Local Planning Policy 2.3, the proposed development requires 25 parking bays. The plans show 24 parking bays proposed (11 parking bays for parents on-site and 12 parking bays for staff members with access from Tonna Lane) which is a shortfall of 1 parking bay. KCTT believe that this shortfall will not have a negative impact on the operation of the development. It should be noted that childcare centres rarely operate at full capacity. Furthermore, the proponent has provided KCTT with information that no more than 9 staff members will be at the same time at the development.

Having all the above in mind, KCTT believe that all parking requirements can be catered for at the proposed childcare centre.

Appendix 1

The Layout of the Proposed Development

PROPOSED CHILDCARE CENTRE EDEN BEACH WESTERN AUSTRALIA

LOT 516, CORNERS OF REFLECTION BOULEVARD, MARLINSPIKE BOULEVARD, NICOBAR WAY & TONNA LANE. EDEN BEACH, WA

ARCHITECTURAL DRAWINGS SCHEDULE

DRAWINGS No	DRAWINGS NAME	SCALE	SHEET SIZE
A.000 A.001 A.002 A.003 A.004	TITLE SHEET SITE PLANS FLOOR PLANS ELEVATION ELEVATION & SECTIONS	N/A 1:200 1:100 1:100 1:100	A1 A1 A1 A1 A1
A.005	3D PERSPECTIVES	N/A	A1

AREAS SITE		1760m²
GROUND FLOOR FIRST FLOOR FIRST FLOOR DECK TOTAL BUILT AREA	(INC WALLS) (INC WALLS) (PLAYGROUND 3)	469m² 203m² 140m² 812m²

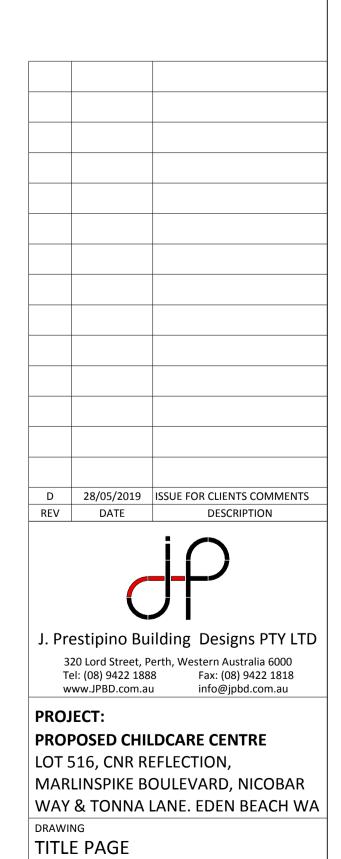
ROOM AREAS				
ROOMS	AGE RANGE	AREA	RATIO	CHILDREN
ROOM 1		55.6m ²	1:3.25m²	17 CHILDREN
ROOM 2 - TODDLERS ROOM	24-36 MONTHS	55.6m ²	1:3.25m ²	17 CHILDREN
ROOM 3 - KINDY ROOM	3-4 YEARS	55.6m ²	1:3.25m ²	17 CHILDREN
ROOM 4 - SCHOOLIES ROOM	4+ YEARS	55.6m ²	1:3.25m ²	17 CHILDREN
GROUND FLOOR SUB TOTAL				68 CHILDREN
ROOM 5 - BABIES ROOM	0-24 MONTHS	63m²	1:3.25m ²	19 CHILDREN
TOTAL		285m²	1 : 3.25m²	87 CHILDREN

PLAY YARD AREAS			
PLAYGROUNDS	AREA	RATIO	CHILDREN
PLAYGROUND 1 (ROOM 1 to 2)	255m²	1 : 7m²	36 CHILDREN
PLAYGROUND 2 (ROOM 3 to 4)	245m²	1 : 7m²	35 CHILDREN
GROUND FLOOR SUB TOTAL	500m²	1 : 7m²	71 CHILDREN
PLAYGROUND 3 (ROOM 5)	140m²	1 : 7m²	20 CHILDREN
TOTAL	646m²	1 : 7m²	91 CHILDREN
			·

STAFF RATIO				
ROOMS		CHILDREN	RATIO	STAFF REQ
ROOM 1 - AFTER HOURS PICK UP & D	17	-	-	
ROOM 2 - TODDLERS ROOM	24-36 MONTHS	17	1:5	3.4 STAFF
ROOM 3 - KINDY ROOM	3-4 YEARS	17	1 : 10	1.7 STAFF
ROOM 4 - SCHOOLIES ROOM	4+ YEARS	17	1 : 10	1.7 STAFF
ROOM 5 - BABIES ROOM	0-24 MONTHS	19	1:4	4.8 STAFF
TOTAL				11.6 STAFF

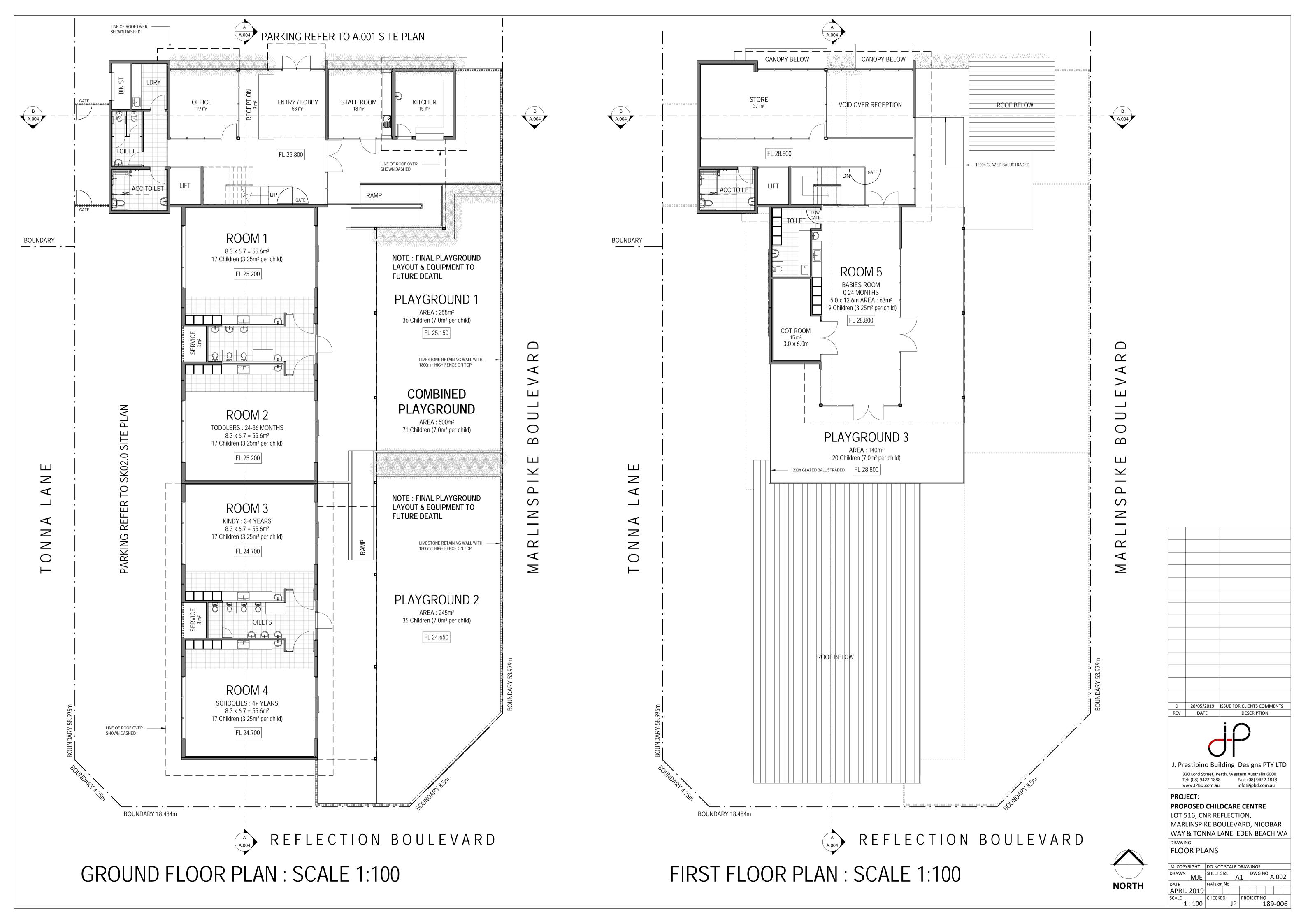
PARKING REQUI	REMENTS	
STAFF PARKING GENERAL PARKING ACCESSIBLE PARKING	1 BAY PER 1 STAFF MEMBER 9 BAY PER 54 CHILDREN PLUS 1 PER 8 CHILDREN 1 BAY PER 25 CAR BAYS	11.7 BAYS 13.1 BAYS 1.0 BAYS
TOTAL PARKING REQUIRED		
PARKING PROVI	DED	
STAFF PARKING GENERAL PARKING ACCESSIBLE PARKING TOTAL PARKING PROVIDED		12.0 BAYS 11.0 BAYS 1.0 BAYS 24.0 BAYS



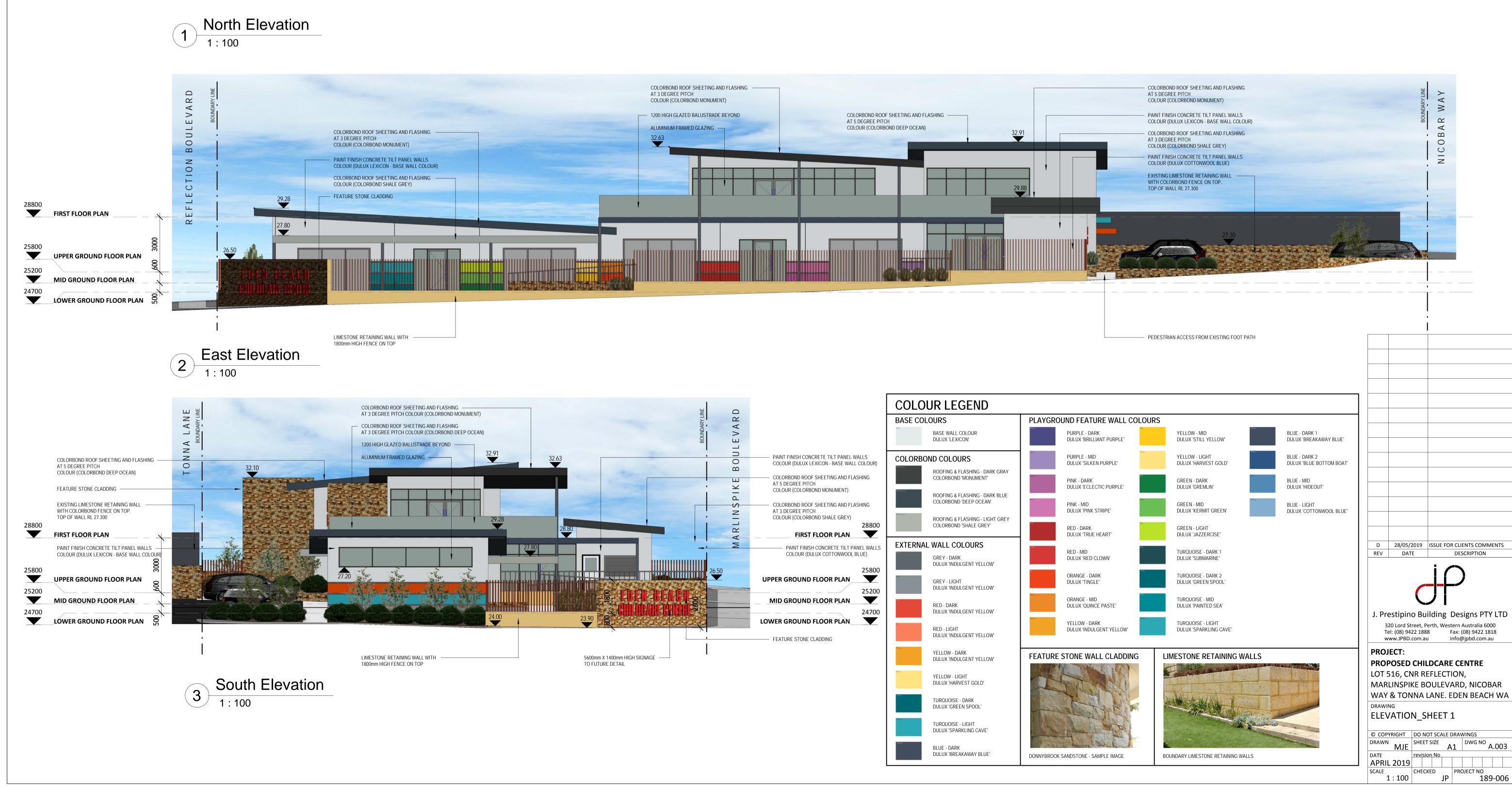


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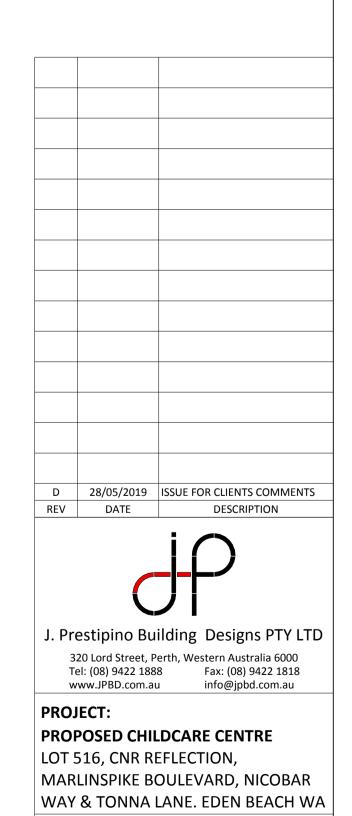












3D PERSPECTIVES

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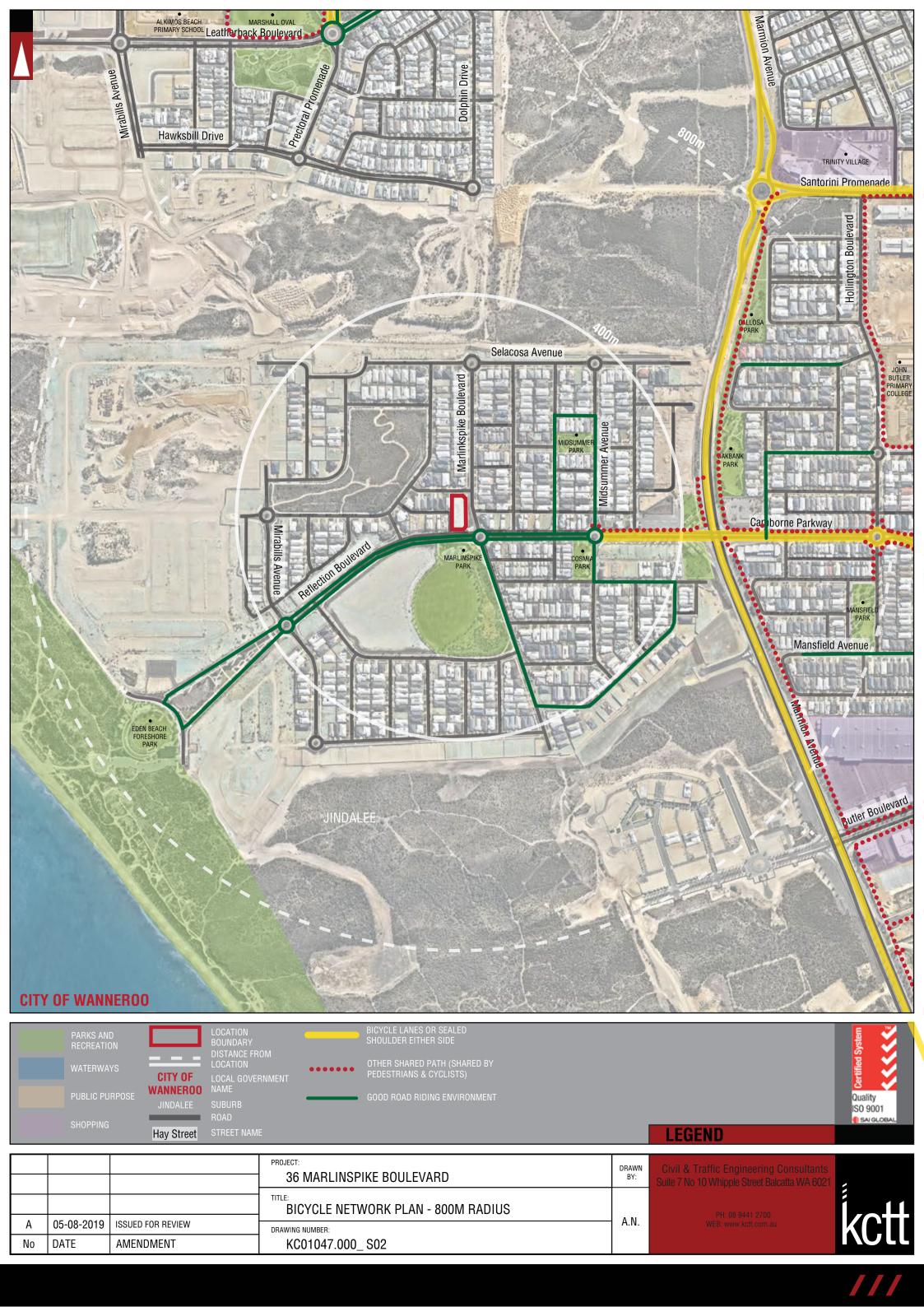
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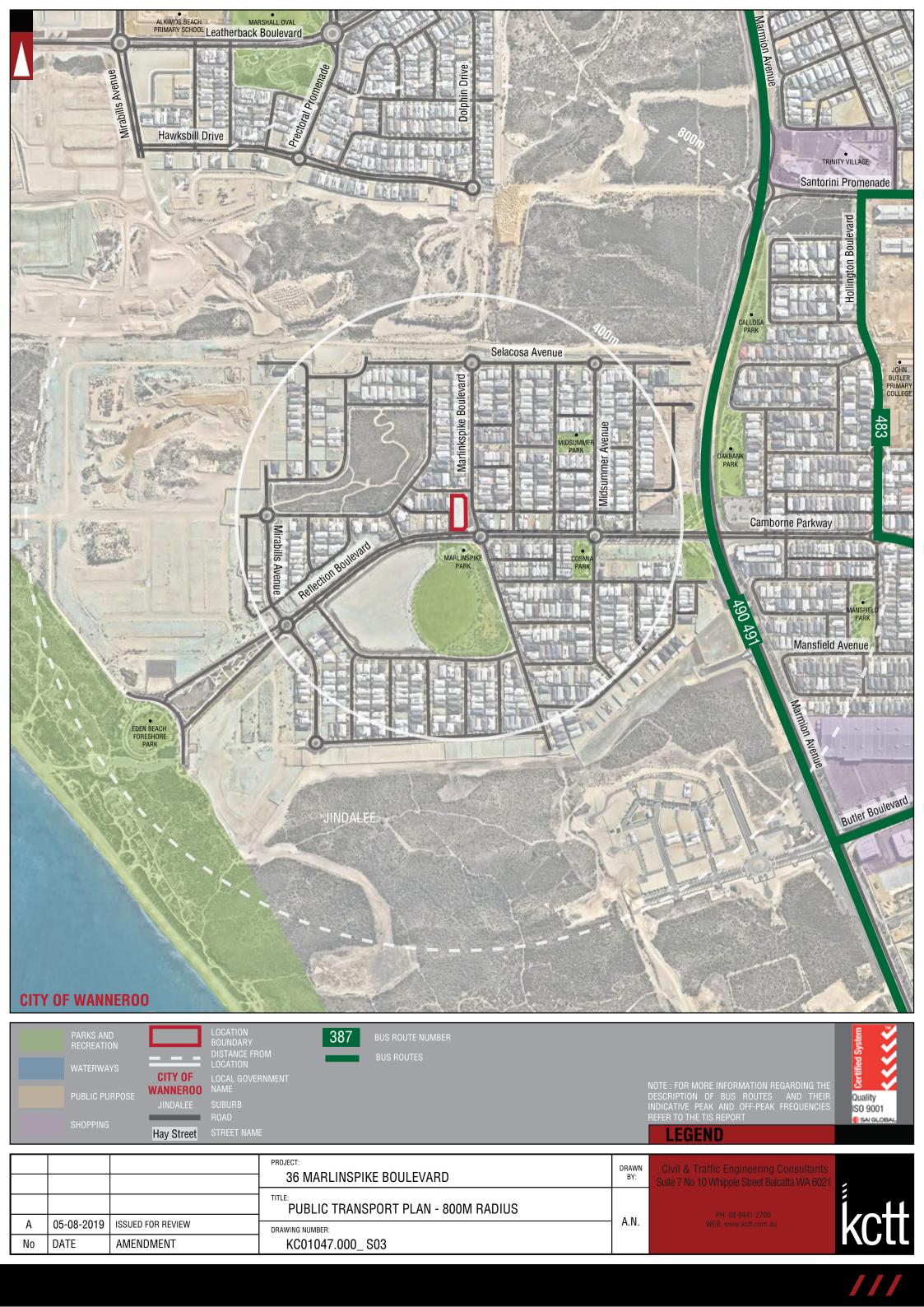
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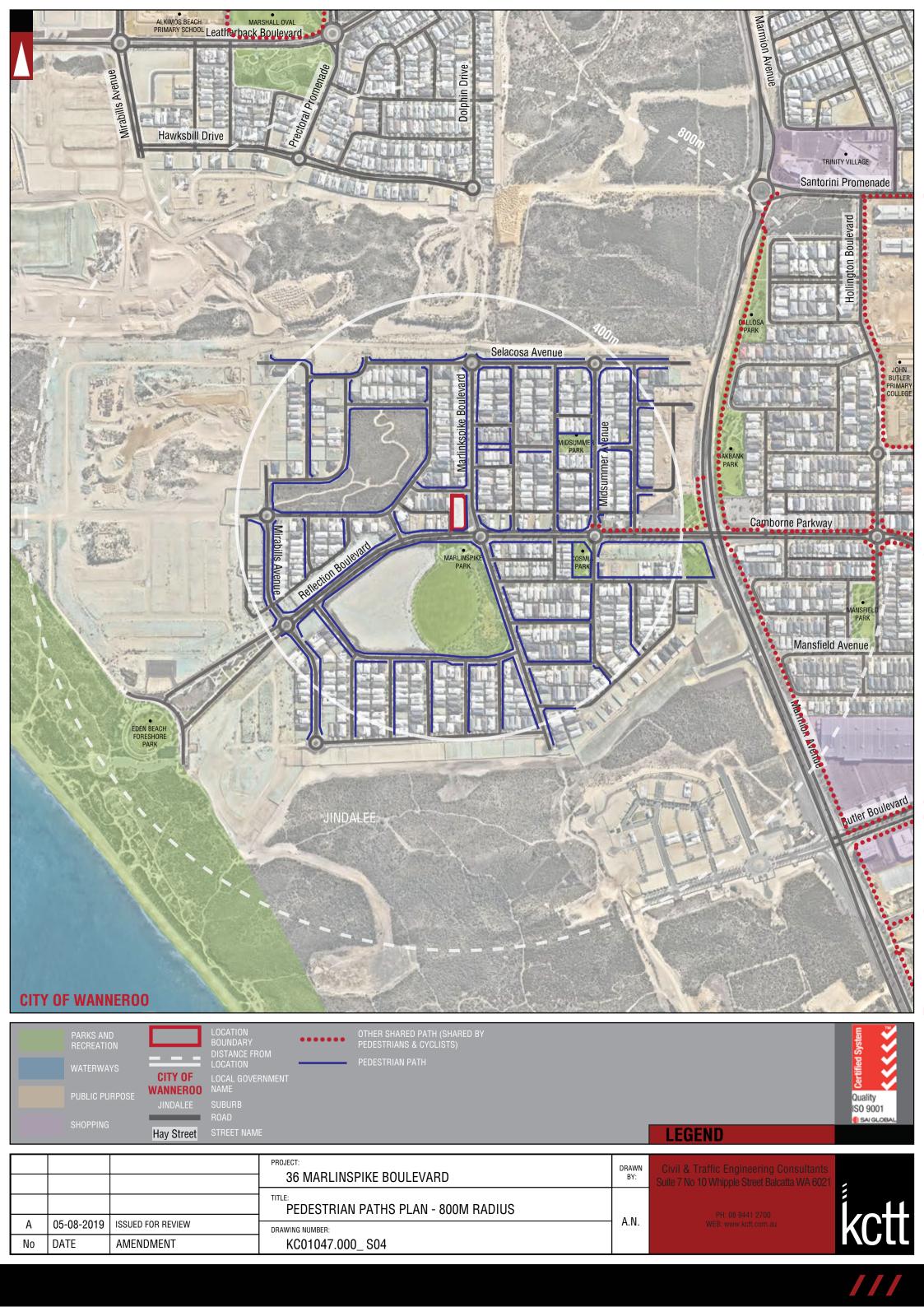
Appendix 2

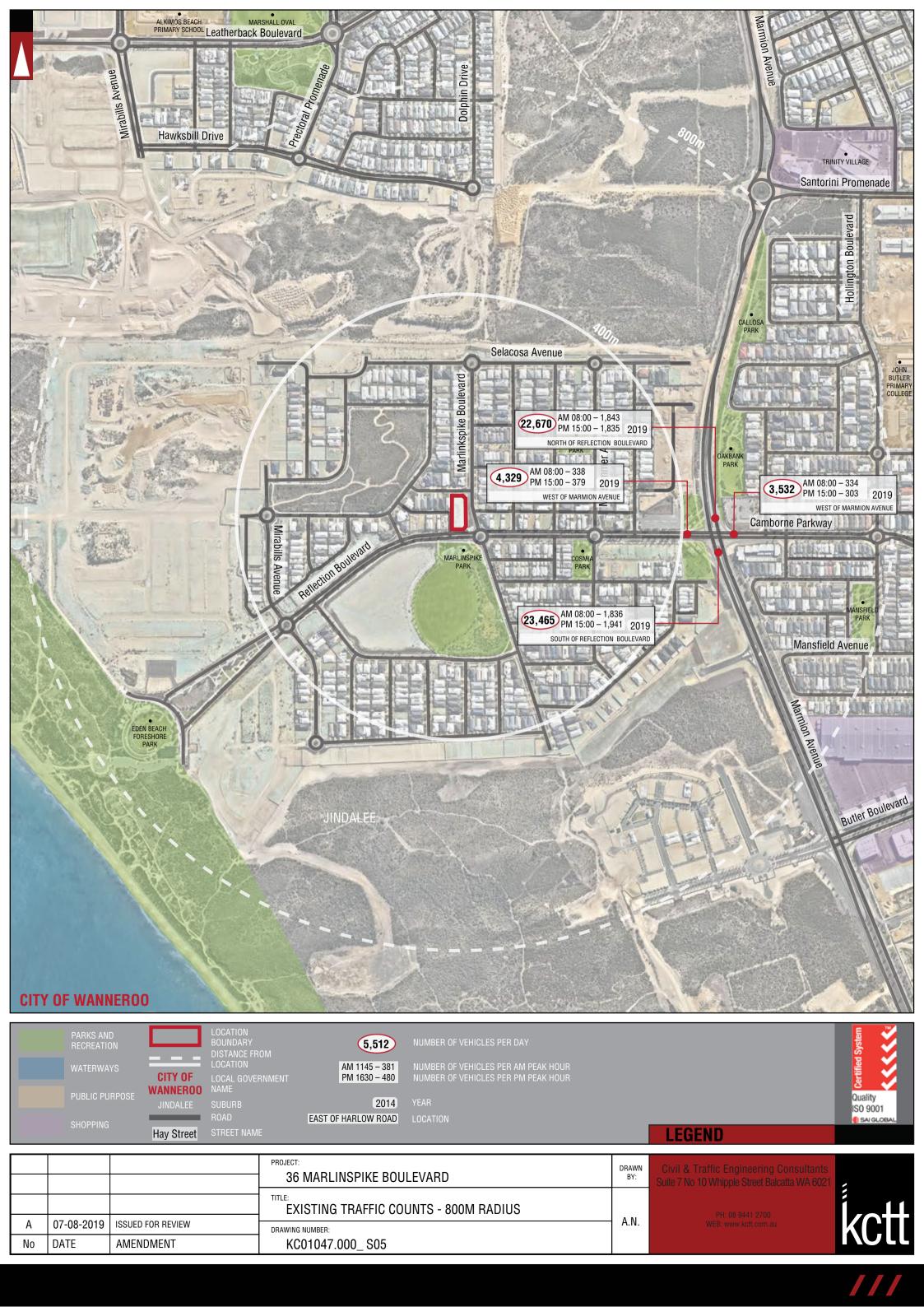
Transport Planning and Traffic Plans

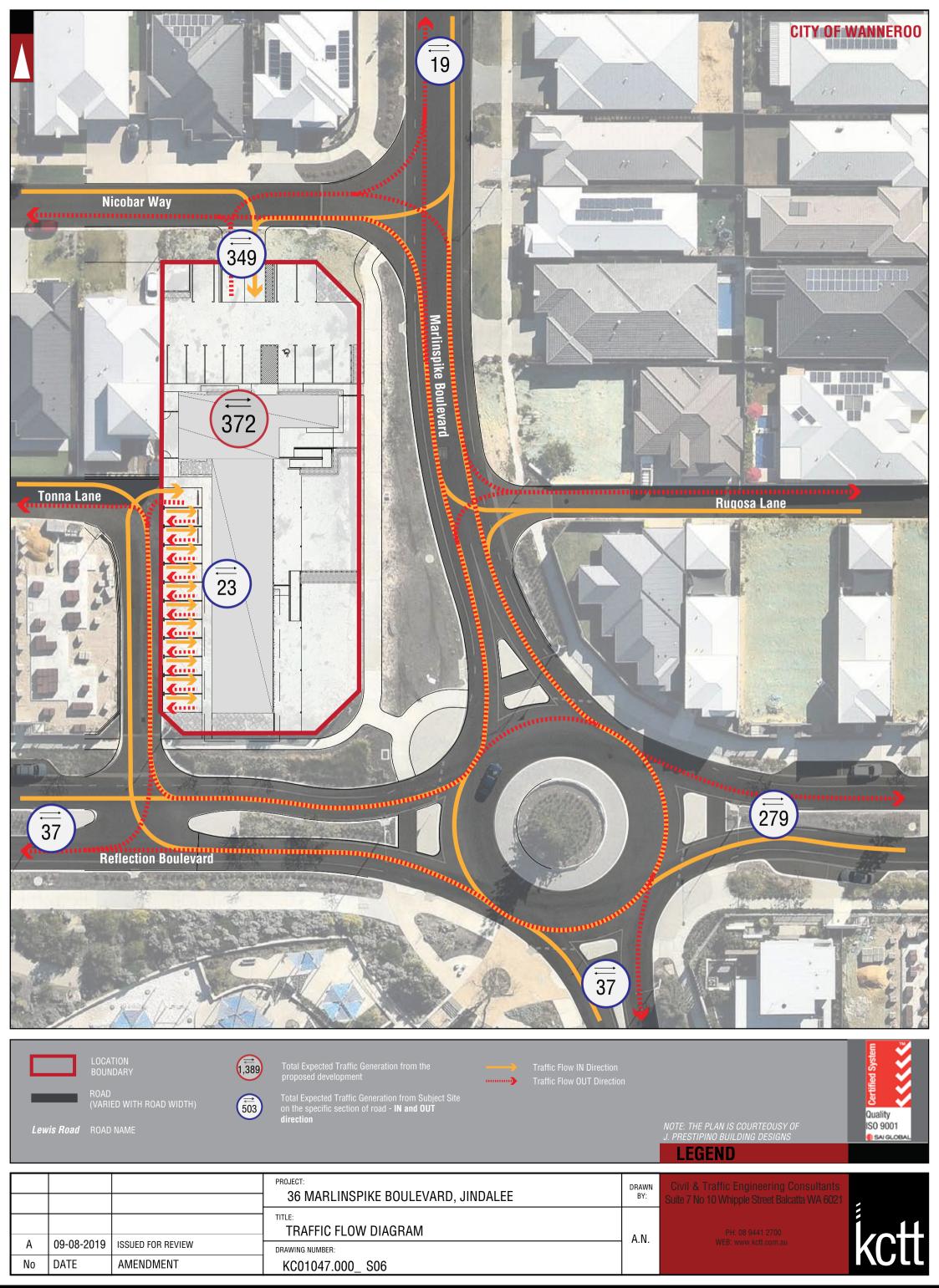




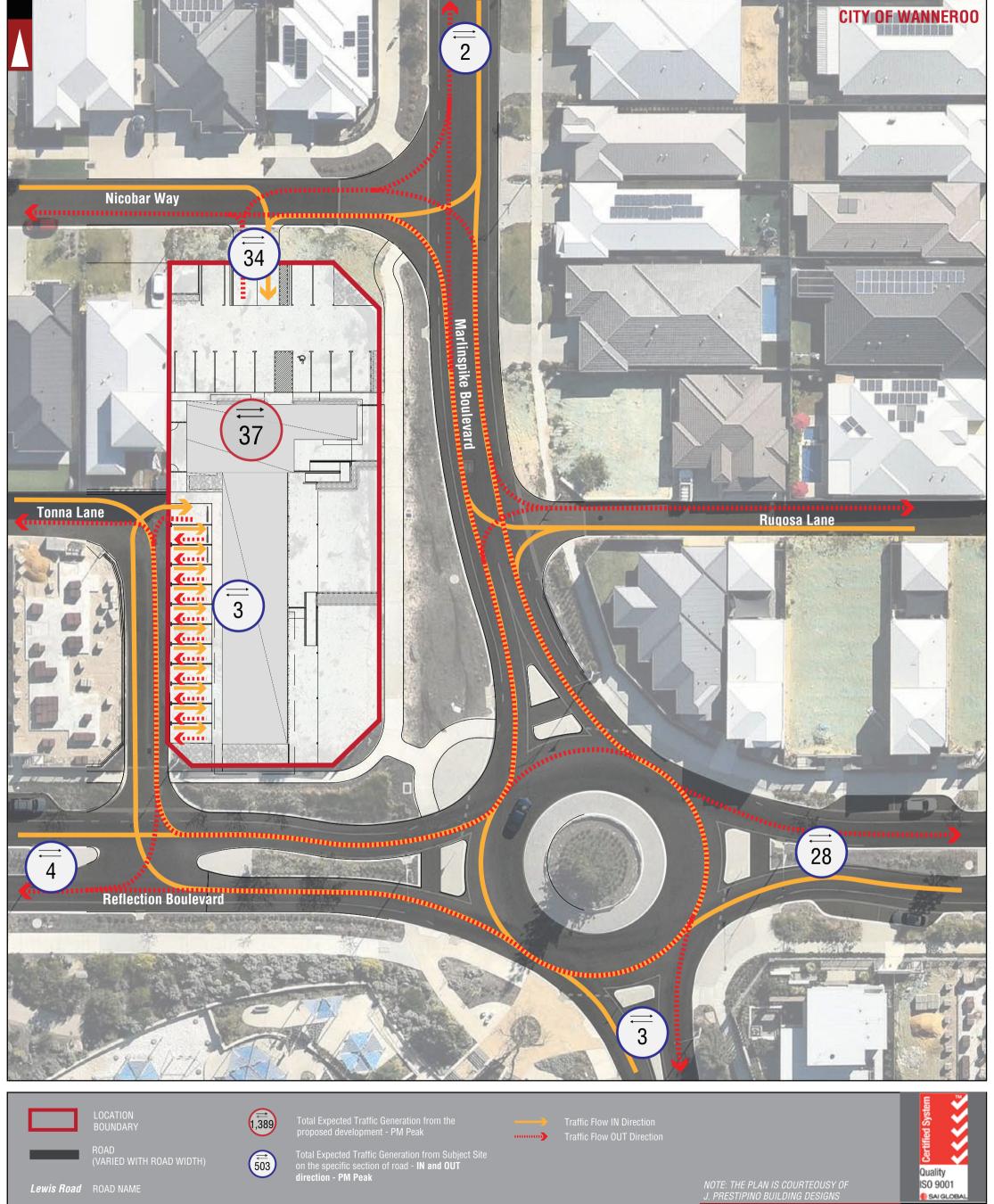








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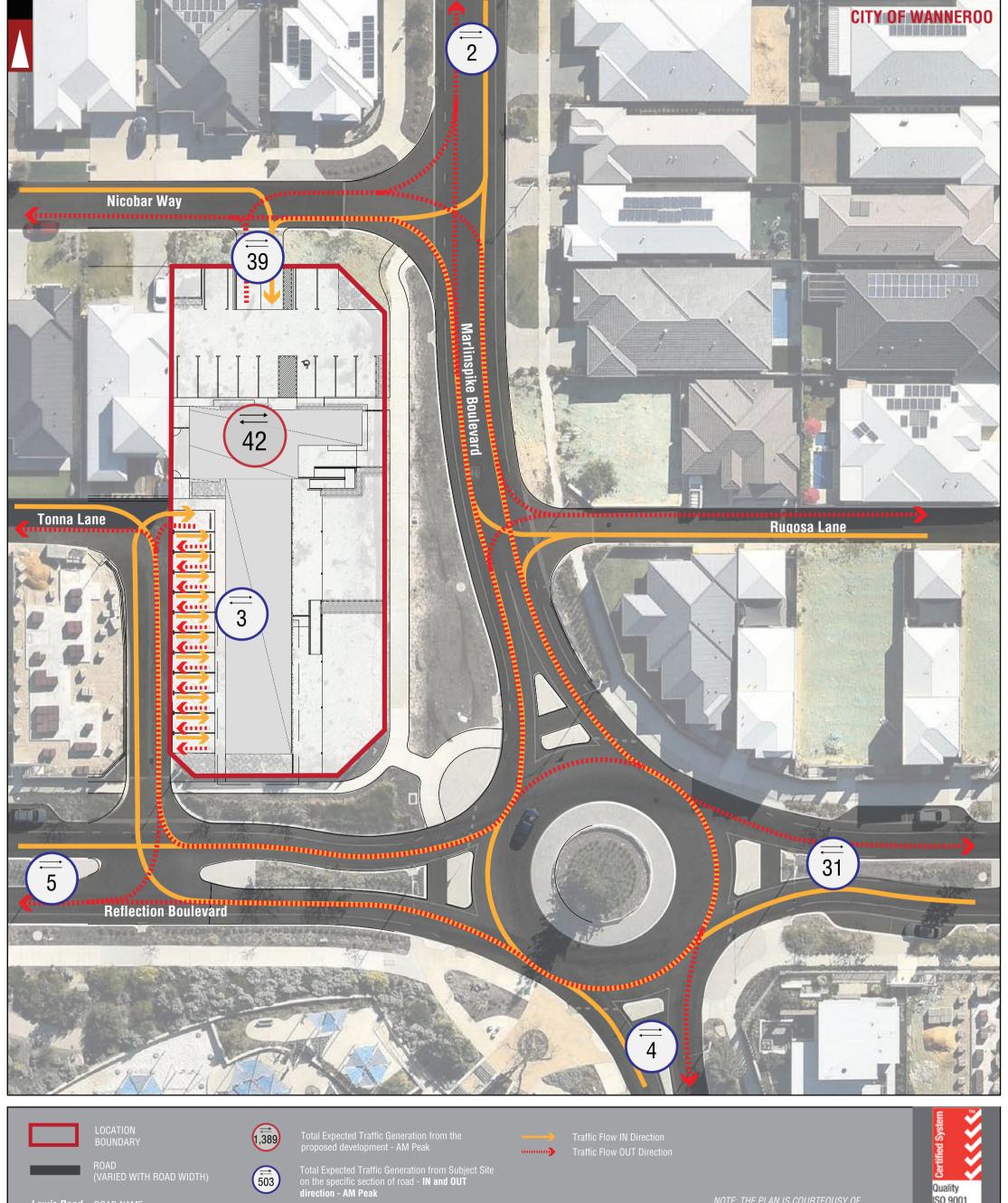




LEGEND

			PROJECT: 36 MARLINSPIKE BOULEVARD, JINDALEE	DRAWN BY:
			TITLE: TRAFFIC FLOW DIAGRAM - PM PEAK	A.N.
A	09-08-2019	ISSUED FOR REVIEW	DRAWING NUMBER:] A.N.
No	DATE	AMENDMENT	KC01047.000_ S07	





NOTE: THE PLAN IS COURTEOUSY OF J. PRESTIPINO BUILDING DESIGNS



LEGEND

			PROJECT: 36 MARLINSPIKE BOULEVARD, JINDALEE	DRAWN BY:
			TITLE: TRAFFIC FLOW DIAGRAM - AM PEAK	A.N.
Α	09-08-2019	ISSUED FOR REVIEW	DRAWING NUMBER:	A.IV.
No	DATE	AMENDMENT	KC01047.000_ S08	



Appendix 3

Vehicle Turning Circle Plan

