

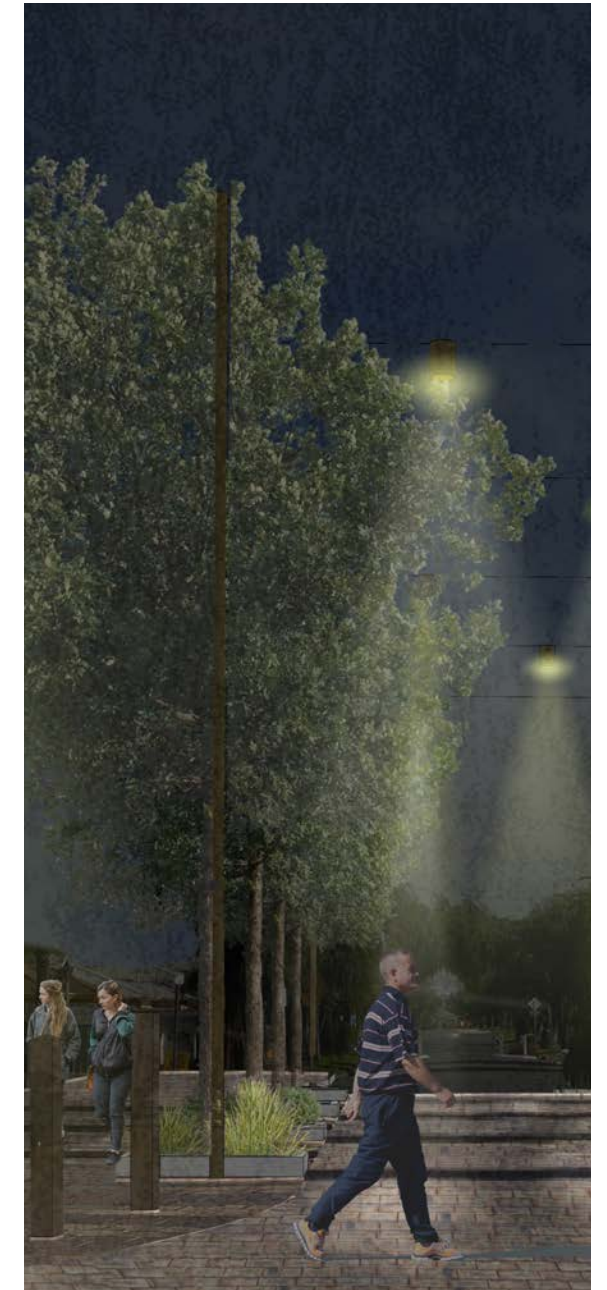
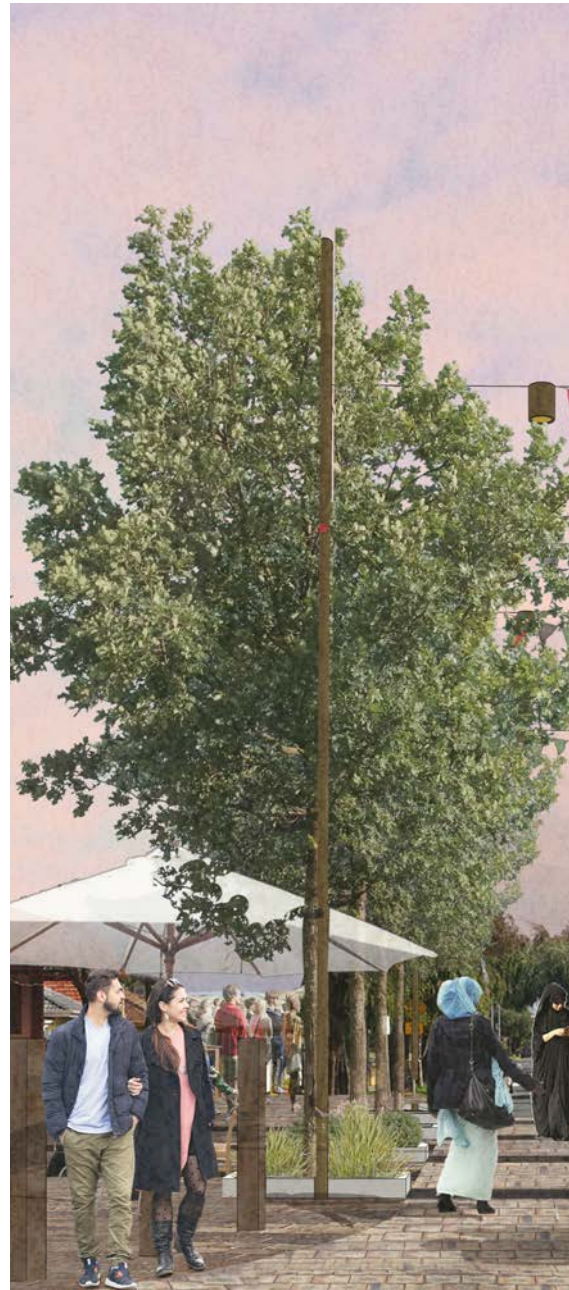
PROSPECT ROAD

Concept Plans

October 2020

WGA
WALLBRIDGE GILBERT
AZTEC

WAX



Prospect Road Background Review

Preamble

An analysis was undertaken to ensure that the Prospect Road Upgrade will be aligned with the existing character of the area as well as previous council plans and strategies. This is an important step as it ensures that the street scape upgrade is aligned with previous planning outcomes and that elements specific to this project were identified and considered.

The background review and site analysis informs the creation of a Prospect Road vision, this provides direction for the public realm development of the precinct in the future. The analysis provides an overview of various elements of Prospect Road and how they can deliver the sense of place and future public realm for Prospect Road.

On the following pages, the key considerations for the guidelines are identified and presented in relation to urban form and land use, pedestrian and cycling movement, vehicle movement and car parking and landscape and public realm.

Utilising this information, a series of urban tacticts have been developed to guide the location and type of upgrades to the precincts. A series of seven projects are provided which details the different approaches to these tacticts in specific locations.



Prospect Road Concept Plan

Context



① Vehicle traffic lanes with signalised pedestrian crossing



② Pedestrian walkways under the building canopy



③ Pedestrian refuge crossings provide little amenity to the street



④ Landscape to kerb and boundary edges



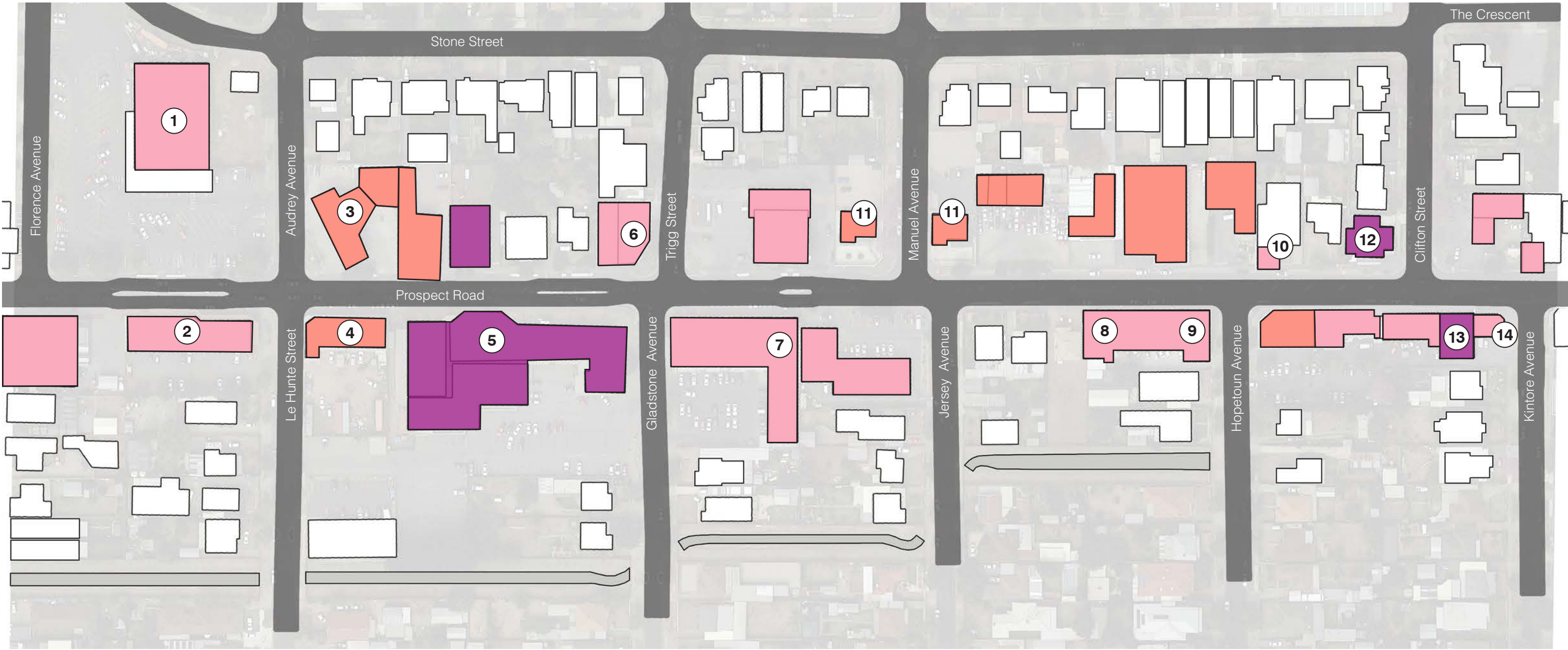
⑤ Rear-loaded car parking behind main street businesses



⑥ Strong focus on public art to the length of Prospect Road

Prospect Road Concept Plan

Urban Form and Land Use



KEY

- Hospitality
- Retail
- Commerical
- Residential

OBSERVATIONS

- Built form character to main street differs between eastern and western sides
- Fragmented built form to the eastern edge with large set backs
- Continuous built form edge to west with no set back
- Low rise development with limited overshadowing of the road corridor
- Defined pedestrian oriented main street activities to western side
- Vehicular access oriented land uses dominant to eastern side
- Less land amalgamation to east (potential for future development)
- Increase shading from buildings along western edge

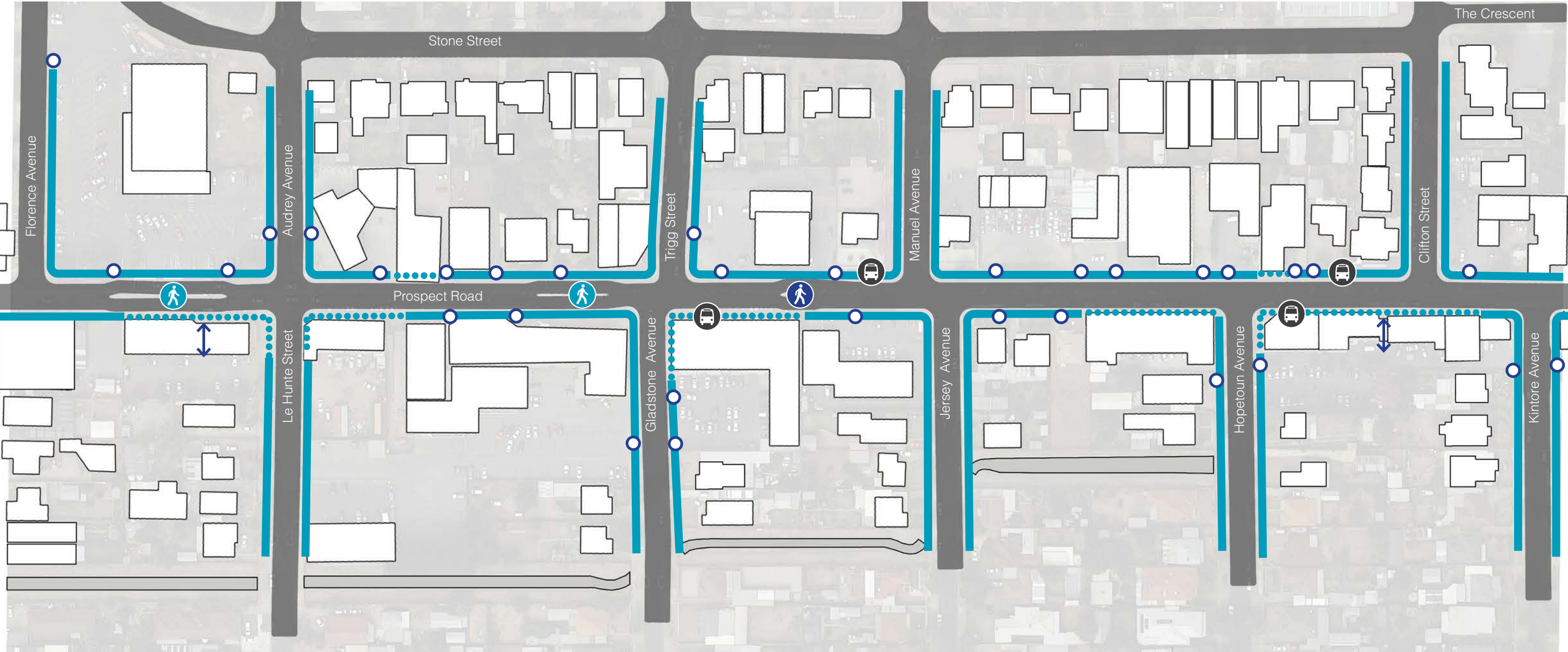
DESTINATIONS

- IGA Supermarket
- Post Office
- Petrol Station
- Bakery
- Empire Hotel
- Market
- Chemist
- Supermarket
- Fruit and Veg Store
- Kebab and Pizza
- Medical Centre
- Charcoal Kebab House
- The Ghan Kebab House
- Agha Juice



Prospect Road Concept Plan

Pedestrian and Cycling Movement



KEY

- Footpath
- Footpath (under canopy)
- Pedestrian laneway
- Pedestrian crossing (signalised)
- Pedestrian refuge (in median)
- Bus stop
- Vehicle driveway crossover

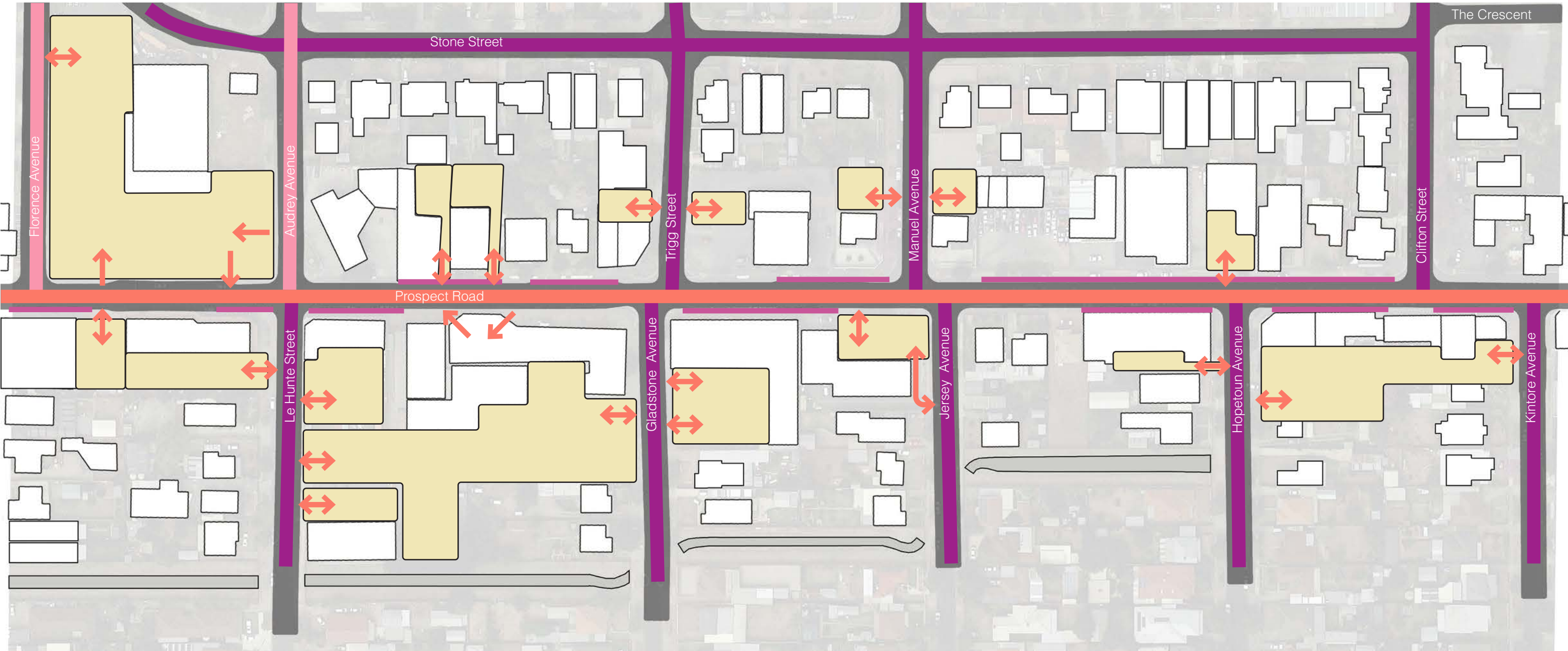
OBSERVATIONS

- Sections of canopy cover provide a degree of shelter
- Accessible footpath network along road corridor
- Footpath fragmented by driveway crossovers to the east
- Minor disruptions to footpaths on western side
- Pedestrian crossings to central and northern sections of corridor (lack of pedestrian crossings to south end of precinct)
- Journeys between rear car parking and main street are lacking direct connections
- Pedestrians required to walk from rear car park to residential streets at either end and around to main street.



Prospect Road Concept Plan

Vehicle Movement and Car Parking



KEY

- DIT road
- Collector road
- Local road
- Car park
- Direction of vehicle access to car parks
- On-street parking

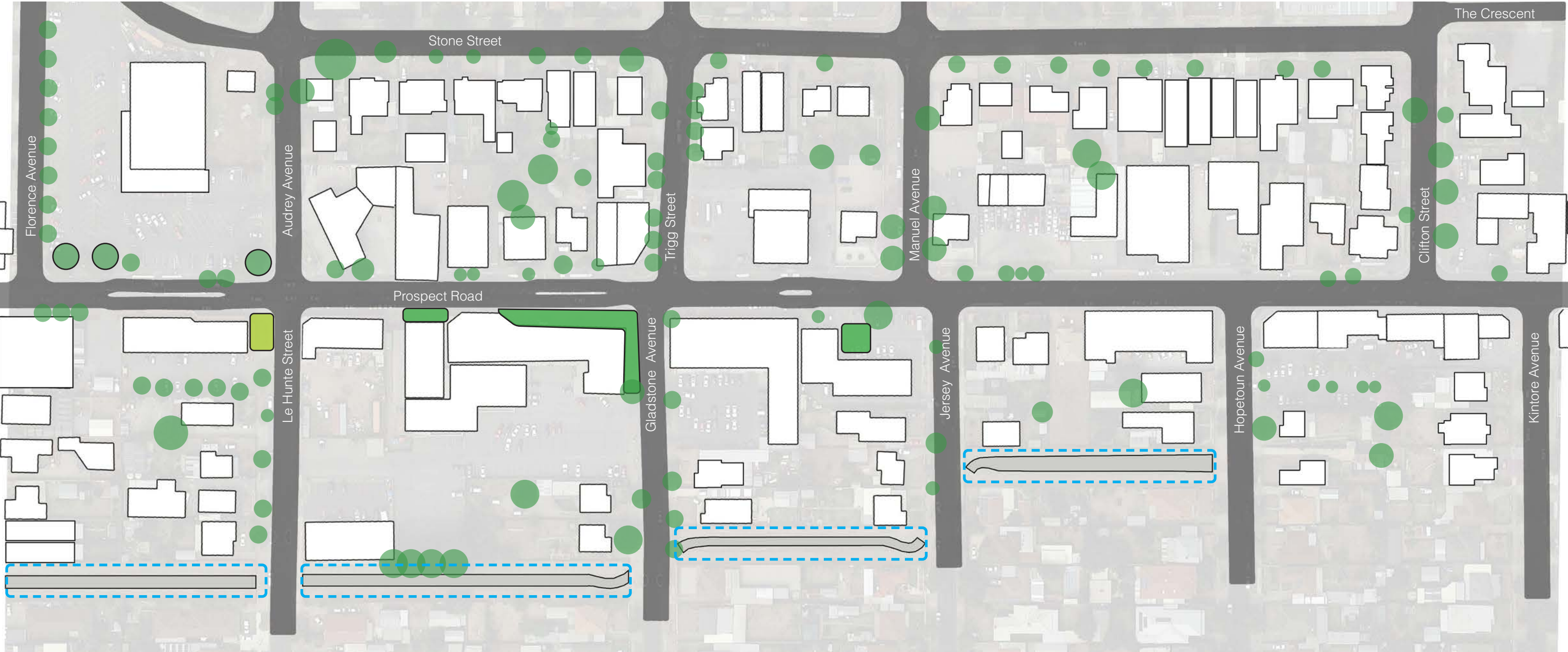
OBSERVATIONS

- Defined road corridor (18 metre width)
- Wide carriageway with line marked seperation
- Significant car parking areas off-street (behind buildings)
- Limited pedestrian access from car parks to main street
- Good on-street parking provision (need to maintain for commercial activity)
- Confused vehicular access to IGA car park
- Large turning radius into side streets (10 metres) creating increase crossing distance



Prospect Road Concept Plan

Landscape and Public Realm



KEY

Mature tree cover

Landmark trees

Public open space

Private Open Space

Fenced drain

Sewer Gravity Mains

- OBSERVATIONS
- Existing vehicle crossovers limit tree planting to main street edge

Limited tree cover to main road

Small pockets of public space along road corridor

Areas of private space adjoining footpaths and public space

Pockets of avenue trees to side streets (east)

Limited landscape amenities to car parks

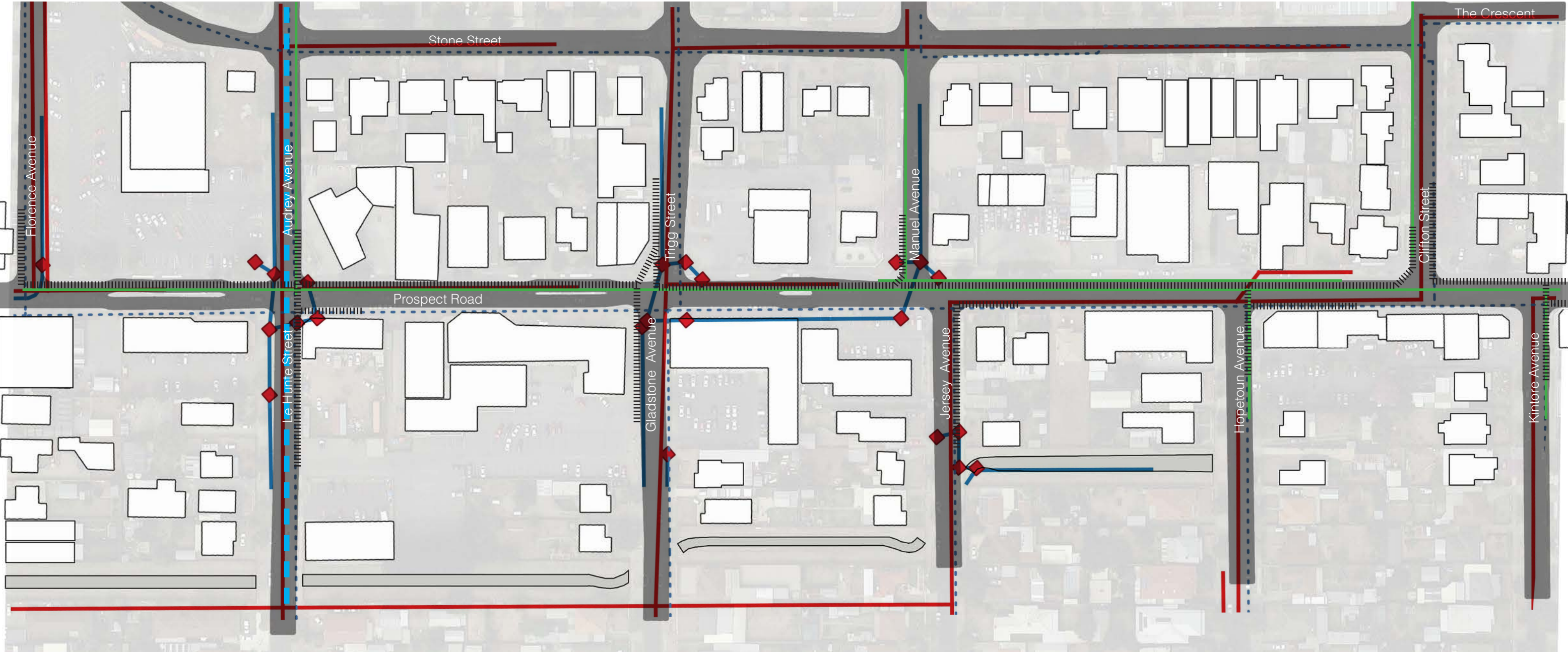
Limited shade provided by street trees

No activation of drain and associated open space



Prospect Road Concept Plan

Underground Infrastructure



KEY

Sewer Gravity Mains

Stormwater Infrastructure

- OBSERVATIONS
- Sewer and stormwater infrastructure beneath Prospect Road may limit potential areas of median tree planting
- No side entry pits to southern end of Prospect Road (south of Manuel Avenue)



Prospect Road Concept Plan

Technical Assessment Summary

PROSPECT ROAD KINTORE AVE TO WAY STREET - TECHNICAL ASSESSMENT SUMMARY

TRAFFIC AND CRASH ANALYSIS

Prospect Road is maintained by the Dept. of Infrastructure & Transport (D.I.T.): 13,300 VPD with 5% CV

Roadside development is primarily commercial and retail businesses and attracts a high volume of “on road” parking

The posted speed limit on prospect road is 50km/h. The side roads assume the default 50km/h speed limit.

Crash period: 1/1/2014-31/12/2018 (5 years)

Crashes reviewed are primarily those related to the junctions or intersections and not the midblock crashes (the 8 midblock crashes are typically rear end, side swipe, hit fixed object or hit parked car).

- The predominant crash type is ‘right angle’ followed by ‘side swipe’.
- Good sight lines at the intersection and reinforcing the priority movements at junctions and intersection are considered to be the main factors that could influence the rate of right-angle crashes.
- Side swipe crashes may occur where lane changing occurs, such as turning into or out of the sheltered right turn lanes with painted medians, drawing out from roadside carpark spaces on Prospect Road or vehicles merging.
- The intersection of LeHunte Street and Audrey Avenue with Prospect Road presents the largest number of crashes. The urban design strategy for this intersection will take into account the possible mitigation strategies to reduce the number of crashes.

EXISTING CONDITIONS

Prospect Road has road lighting, poles appear to be relatively new with L.E.D. lamps/luminaires (standard unknown but likely Category V3)

Prospect Road has a painted median scheme, with right turns generally provided to side roads where it is possible to do so.

Bicycle lanes are formed north of Way Street but not within the project extent between Kintore Avenue and Way Street.

Protuberances in the form of concrete islands restrict parking in some locations

Kerb indents provide roadside parking in some locations.

Two pedestrian actuated crossings (P.A.C.) are provided between Gladstone Avenue and Way Street and a pedestrian refuge is located between Trigg Street and Manuel Avenue. An informal pedestrian crossing incorporating 2 kerb ramps opposite each other on each side of Prospect Road is provided between Hopetoun Avenue and Clifton Street.

PARKING

Parking on Prospect Road is typically restricted to 1 hour duration between 8am and 6.00pm any day of the week on the western side. Parking on the eastern side is also restricted any day of the week between 8.00am and 6.00pm but the time limit varies. Some parking is limited to half an hour or 1.0 hour. Other locations are limited to 2.0 hours.

Based on the data provided between 27-01 2019 and 15-07-2020 for 7 random days Monday through to Sunday, off-street parking is generally 20% to 37% utilised in all the off-street parking locations counted. The one exception to this is the off-street parking behind Chemist Warehouse/ Saigon Gate Cuisine/Lucky Asian Grocery. This exception may be due to the rear-access accessibility to these premises from the car park.

RELEVANT GUIDELINES FOR URBAN DESIGN STRATEGIES AT JUNCTIONS AND INTERSECTIONS

Guidance will be drawn from AS 1792.13-2009 Local Area Traffic Management where the principles of a “Perimeter Threshold” may be deployed. Other guidance will be drawing from the D.I.T. Code of Technical Requirements for Traffic Control Devices Part 2 from which the principle of “Contrasting Pavements” at intersections may be deployed. AUSTROADS Guide to Traffic Management Part 8: Local Area Traffic Management provides guidance on “Raised Pavement” treatments which may be deployed.

There are precedents for junction/threshold treatments already in place at the junction of Rose Street with Prospect Road within the City of Prospect. The junction of Rosa Street with Goodwood Road at Goodwood in the City of Unley is also another precedent the design team may deploy.

Any non-standard devices/treatments will require approval from the Commissioner of Highways.

Prospect Road Concept Plan

Mainstreet Tactics

1. Shared space thresholds to western junctions

- Modify junctions to create new shared spaces
- Reduce road widths to increase the public realm and reduce the impact of traffic
- Consider one-way access to increase public space
- Develop continuous paving treatments and raised table-top crossings
- Explore traffic control measures to allow road closures
- Develop extensive landscape treatments, public realm upgrades and tree planting

2. Improved pedestrian movement and crossings to the eastern junctions

- Providing improved connections across junctions and driveways
- Develop cohesive public realm
- Increase accessibility and improve mobility
- Developed linked facilities (medical centre)
- Reduce crossing distances for pedestrians
- Increase the public realm
- Explore opportunities for additional landscape treatments
- Reduction in posted speed on Prospect Road - Discuss with DIT

3. Tree planting to the central median

- Creates a unique streetscape character for the road
- Use trees to create focal points
- Increase the shading of the road corridor
- Reduction in urban heat island effects
- Provision of landscape amenity
- Explore location to plant large trees as landmarks
- Increase the shading of the street

4. Adjust IGA and other vehicular entrances and crossovers to increase public realm legibility

- Modify existing car park entrances to increase public spaces and reduce pedestrian conflicts
- Consider removing entrance from Prospect Road and creating new entrances to side roads
- Use spaces created by entrance closure for tree planting and landscape treatments
- Improve footpath treatment to car park edges

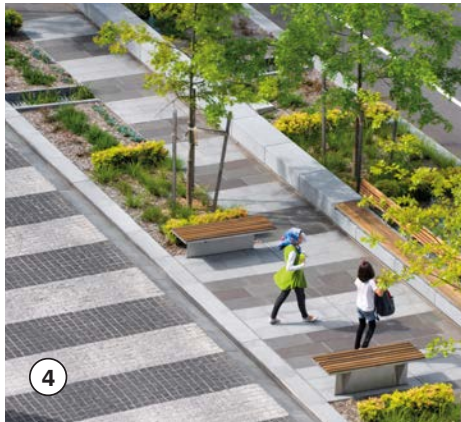
5. Integration of private realm and street frontages to create larger spaces for people

- Exploit unused or underused areas of private land for public purpose
- Provide greater amenity within the corridor
- Provide opportunities for larger tree planting and garden beds
- Develop shared use agreements and management of open space
- Increase landscape treatments to mitigate urban heat island effects



Project 1

Gladstone Avenue

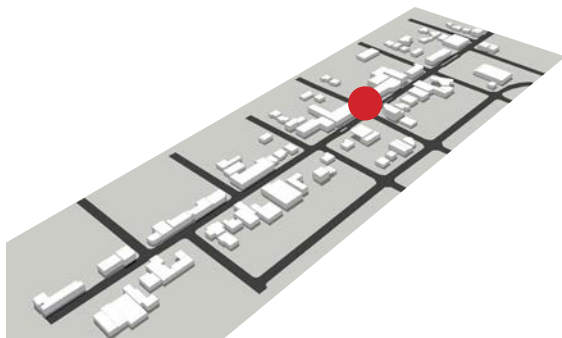


KEY



PROPERTY BOUNDARY

1. RAISED SIDE STREET THRESHOLD
2. PEDESTRIAN WALKWAY
3. PUBLIC PLAZA CONNECTED ACROSS GLADSTONE AVENUE WITH PAVING TO ROADWAY AND FOOTPATH. VEHICLE LANE REDUCED TO 6 METRES.
4. CONTINUOUS PAVING BANDS ACROSS ROADWAY AND THROUGH PLAZA
5. GARDEN BEDS WITH SHRUBS AND TREES TO CREATE TREE GROVE WHICH IMPROVES CANOPY COVER AND SHADE TO PUBLIC REALM
6. CONTINUOUS FOOTPATH (2M WIDE) CONNECTING TO GLADSTONE AVENUE
7. LAWN SPACE ADJACENT ROAD EDGE PROVIDING OPPORTUNITIES FOR SOCIALISATION
8. LAWN AND TREES TO PRIVATE LAND (EMPIRE HOTEL) TO CREATE A LARGER COHESIVE PUBLIC REALM SUBJECT TO NEGOTIATIONS WITH LAND OWNERS
9. CATENARY LIGHT OPPORTUNITIES
10. BOLLARDS TO RAISED ROAD EDGE
11. SIGNAGE DIRECTING VEHICLES TO REAR CAR PARKING
12. ALL EXISTING HEALTHY TREES TO BE RETAINED



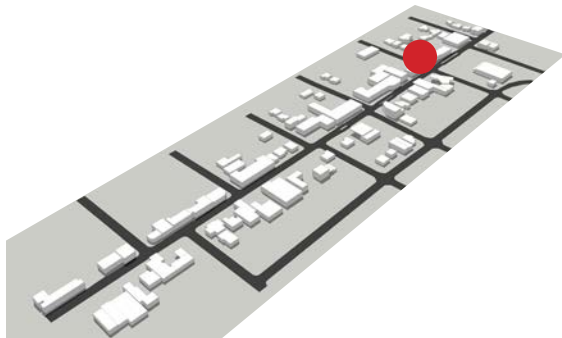
LOCATION

Project 2

Le Hunte Street



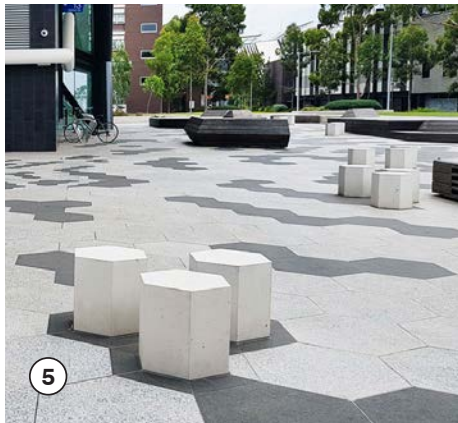
- 1. RAISED SIDE STREET
- 2. PEDESTRIAN WALKWAY
- 3. LE HUNTE STREET REDUCED TO ONE WAY ACCESS (LEFT IN FROM PROSPECT ROAD) TO MAXIMISE PUBLIC REALM AND REDUCE VEHICLE CONFLICTS TO PROSPECT ROAD
- 4. ALL EXISTING HEALTHY TREES TO BE RETAINED
- 5. GARDEN BEDS WITH SHRUBS AND TREES TO CREATE TREE GROVE WHICH IMPROVES CANOPY COVER AND SHADE TO PUBLIC REALM
- 6. CROSSOVERS MAINTAINED TO REAR CAR PARKS
- 7. LANDSCAPED GARDEN BED TO ROAD EDGE
- 8. LIGHTING AND BANNER POLE OPPORTUNITIES
- 9. SIGNAGE DIRECTING VEHICLES TO REAR PARKING
- 10. NEW CENTRAL MEDIAN TO RESTRICT MOVEMENT ACROSS PROSPECT ROAD FROM AUDREY ST TO LE HUNTE ST.



LOCATION

Project 3

Kintore Avenue, Jersey Avenue and Hopetoun Avenue



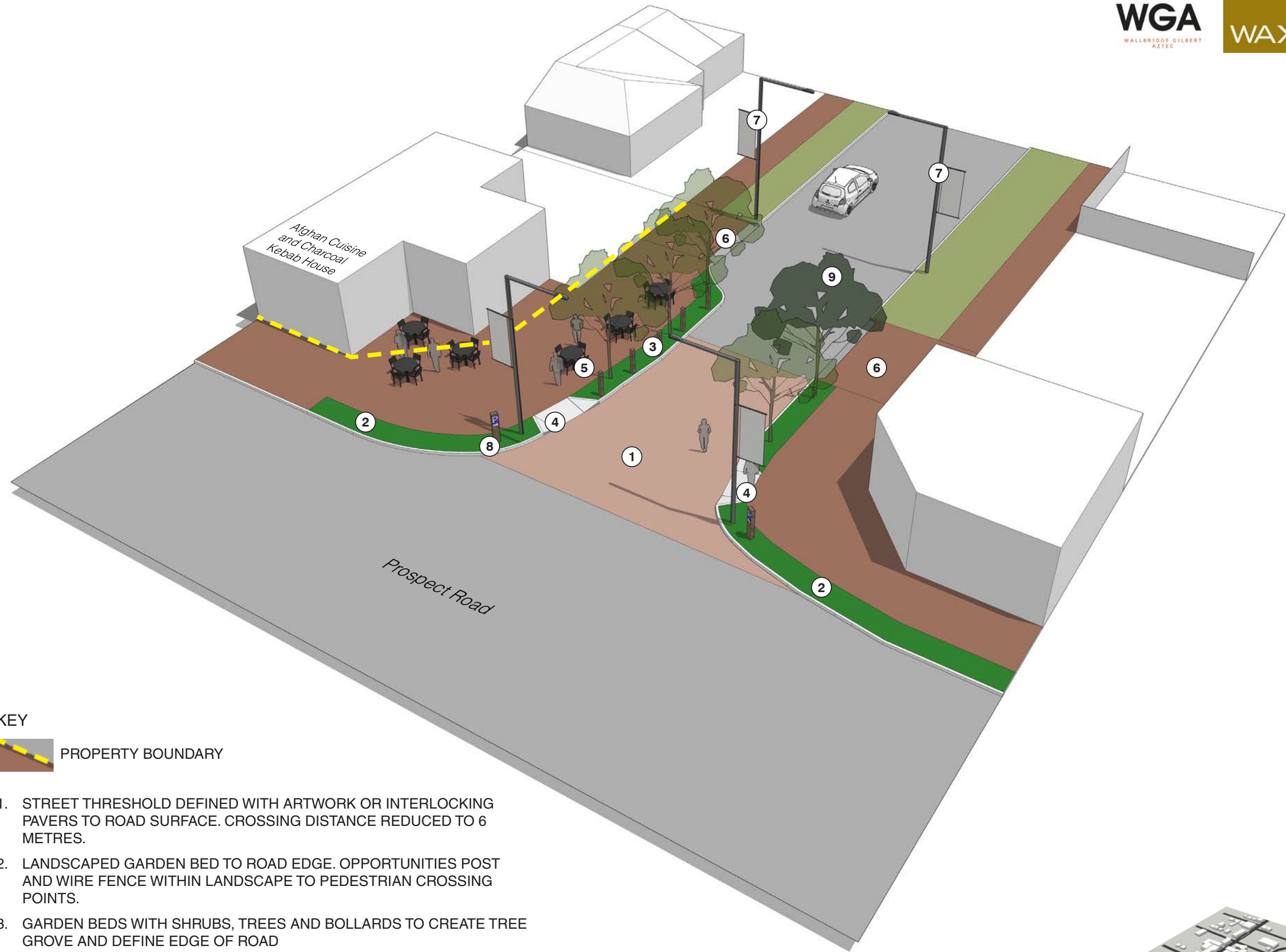
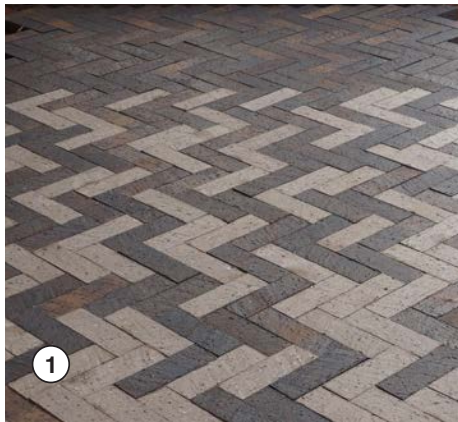
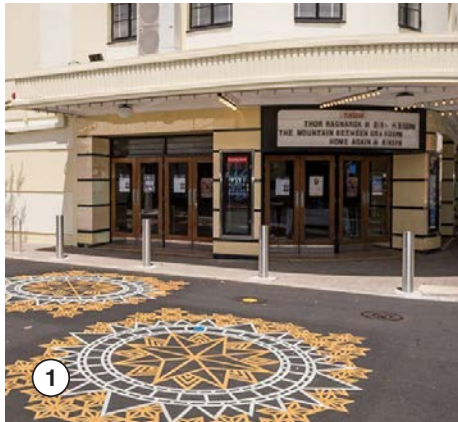
1. RAISED SIDE STREET THRESHOLD
2. PEDESTRIAN WALKWAY
3. PUBLIC PLAZA CONNECTED ACROSS ROADWAY WITH PAVING TO ROADWAY AND FOOTPATH. VEHICLE LANE REDUCED TO 6 METRES.
4. GARDEN BEDS WITH SHRUBS AND TREES TO CREATE TREE GROVE AND DEFINES EDGE OF VEHICLE LANE
5. SEATING OPPORTUNITIES WITH BENCHES AND PODS TO WHILST PREVENTING VEHICLES ENTERING PUBLIC REALM
6. LIGHTING AND BANNER POLE OPPORTUNITIES WITH CATERNARY LIGHTING
7. BOLLARDS TO RAISED ROAD EDGE
8. OUTDOOR DINING OPPORTUNITIES
9. VEHICLE CROSSOVERS MAINTAINED TO REAR CAR PARKS
10. SIGNAGE DIRECTING VEHICLES TO REAR PARKING



LOCATION

Project 4

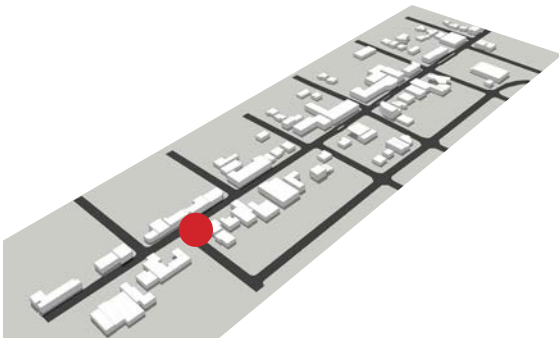
Clifton Street



KEY

 PROPERTY BOUNDARY

- 1. STREET THRESHOLD DEFINED WITH ARTWORK OR INTERLOCKING PAVERS TO ROAD SURFACE. CROSSING DISTANCE REDUCED TO 6 METRES.
- 2. LANDSCAPED GARDEN BED TO ROAD EDGE. OPPORTUNITIES POST AND WIRE FENCE WITHIN LANDSCAPE TO PEDESTRIAN CROSSING POINTS.
- 3. GARDEN BEDS WITH SHRUBS, TREES AND BOLLARDS TO CREATE TREE GROVE AND DEFINE EDGE OF ROAD
- 4. ACCESSIBLE KERB RAMP
- 5. OUTDOOR DINING OPPORTUNITIES WITHIN INCREASED PUBLIC REALM
- 6. VEHICLE CROSSOVERS MAINTAINED TO REAR CAR PARKS
- 7. LIGHTING AND BANNER POLE OPPORTUNITIES
- 8. SIGNAGE DIRECTING VEHICLES TO REAR PARKING
- 9. ALL EXISTING HEALTHY TREES TO BE RETAINED



LOCATION

Project 5

IGA and Audrey Street



1. REALIGNED VEHICLE ENTRANCES TO IGA CAR PARK (3M WIDTH)
2. REALIGNED PEDESTRIAN FOOTPATH INCORPORATING WIDTH OF EXISTING ROAD PROTUBERANCES
3. LANDSCAPE EDGE TO IGA CAR PARK (1M WIDTH) INCLUDING UNDERSTOREY SHRUBS AND TREES PROVIDING SHADE TO FOOTPATH
4. ACCESSIBLE KERB RAMPS
5. STREET THRESHOLD DEFINED WITH INTERLOCKING PAVERS TO ROAD SURFACE.
6. NEW CENTRAL MEDIAN TO RESTRICT MOVEMENT ACROSS PROSPECT ROAD FROM AUDREY ST TO LE HUNTE ST.
7. VEHICLE CROSSOVERS MAINTAINED TO REAR CAR PARKS
8. POTENTIAL NEW ENTRANCE TO IMPROVE ACCESS
9. POTENTIAL PEDESTRIAN ACCESS THROUGH THE CAR PARK
10. ALL EXISTING HEALTHY TREES TO BE RETAINED
11. FOOTPATH WIDTH REDUCED BETWEEN GARDEN BEDS (2.2M)

Project 6

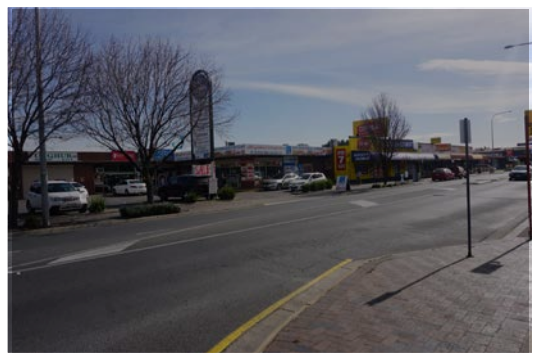
Trees to central median on Prospect Road



Median Tree Planting Opportunities



Typical landscape median with tall and frangible tree species to maintain sight lines with native shrubs and crushed rock surface



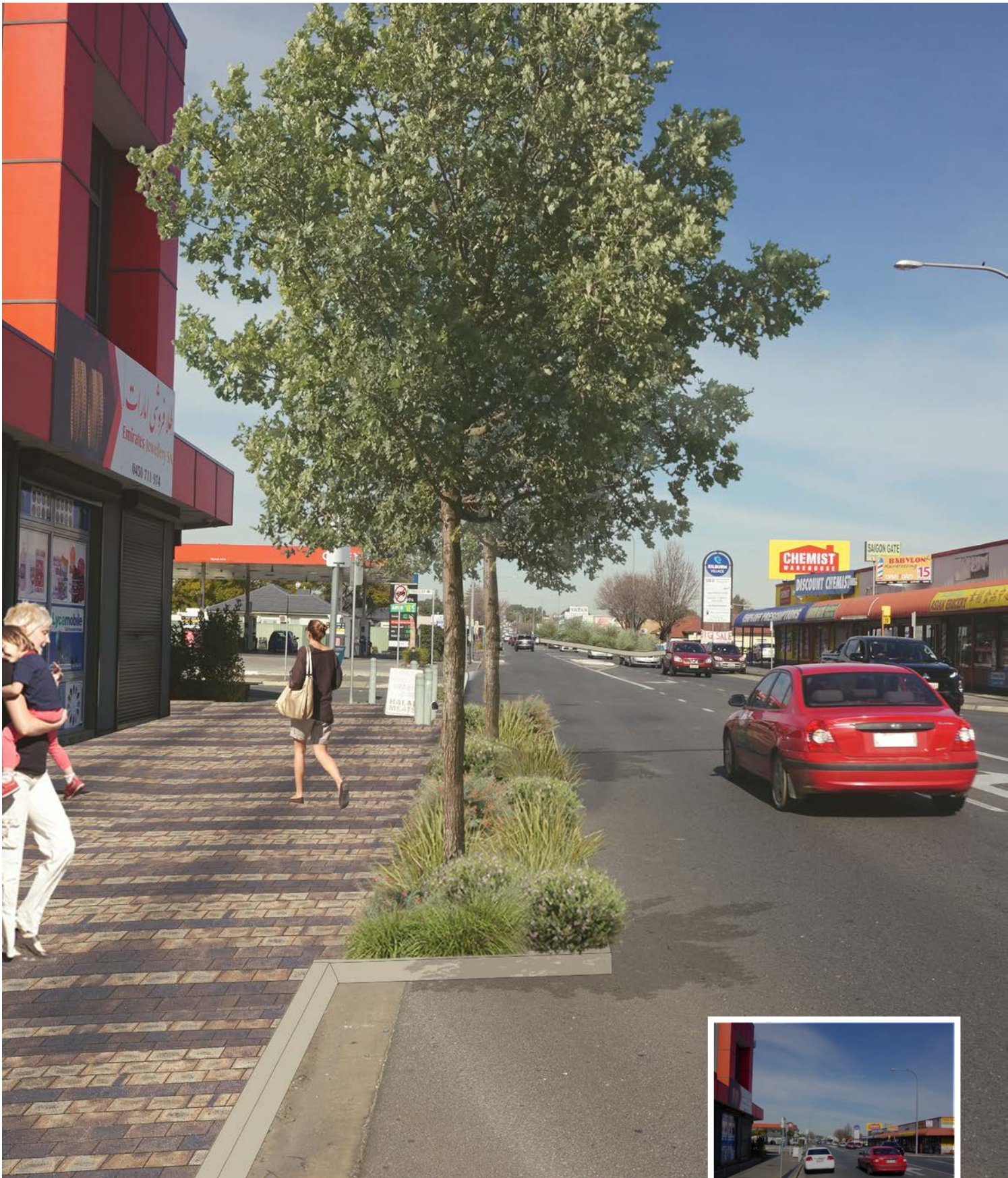
Kerb Build-Out Opportunities



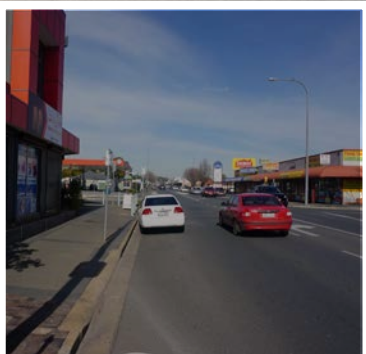
The following opportunities have been developed through an analysis of on-street parking trends over a period of four year (2017-2020).The following identified areas experience an average parking utilistion of 20% or less.

Given the discreet nature of the opportunities and the degree of change that is anticipated over the next few years it is recommended that limited modification is undertaken to this areas.

Opportunities for kerb build outs in under utilised off street parking locations



Typical kerb build out opportunities utilising landscape and trees. Further investigations required for stormwater management along existing kerb.



Tree Species

Tree Options Analysis

Priority	Trees	Performance										
		Location	Height	Spread	Longevity	Growth Rate	Shape	Fruitless	Deciduous	Leaf Colour	Exotic	Score
	Preferred criteria	Dry Urban	12-20m	5-8m	Yes	Fast	Upright, rounded, dense	Yes	Yes	Yes	Yes	Out of 10
1	Acer x freemanii 'Armstrong'	Yes	10-15m	5-8m	Moderate	Fast	Upright, rounded, dense	Minimal	Yes	Yes	Yes	9
2	Pyrus Chanticleer, (Columna pear)	Yes	10-15m	6m	Moderate	Fast	Oval,columnal, dense	Yes	Yes	Yes	Yes	8.5
3	Quercus palustris	Yes	10-15m	5-8m	Yes	Slow	Upright, rounded, dense	No	Yes	Yes	Yes	8
4	Celtis australis	Yes	10-15m	5-8m	Yes	Yes	Upright, rounded, dense	No	Yes	Minimal	Yes	8
5	Pistacia chinensis	Yes	8-15m	5-8m	Yes	Moderate	Upright, oval, dense	No	Yes	Yes	Yes	8
6	Cupaniopsis anacardioides, (Tuckeroo)	Yes	8-15m	5-8m	Yes	Moderate	Rounded, dense	No	No	No	No	5.5

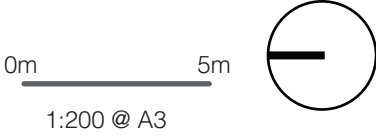


Public Art Opportunities

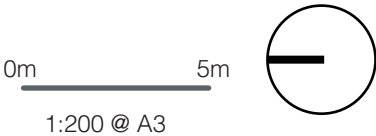
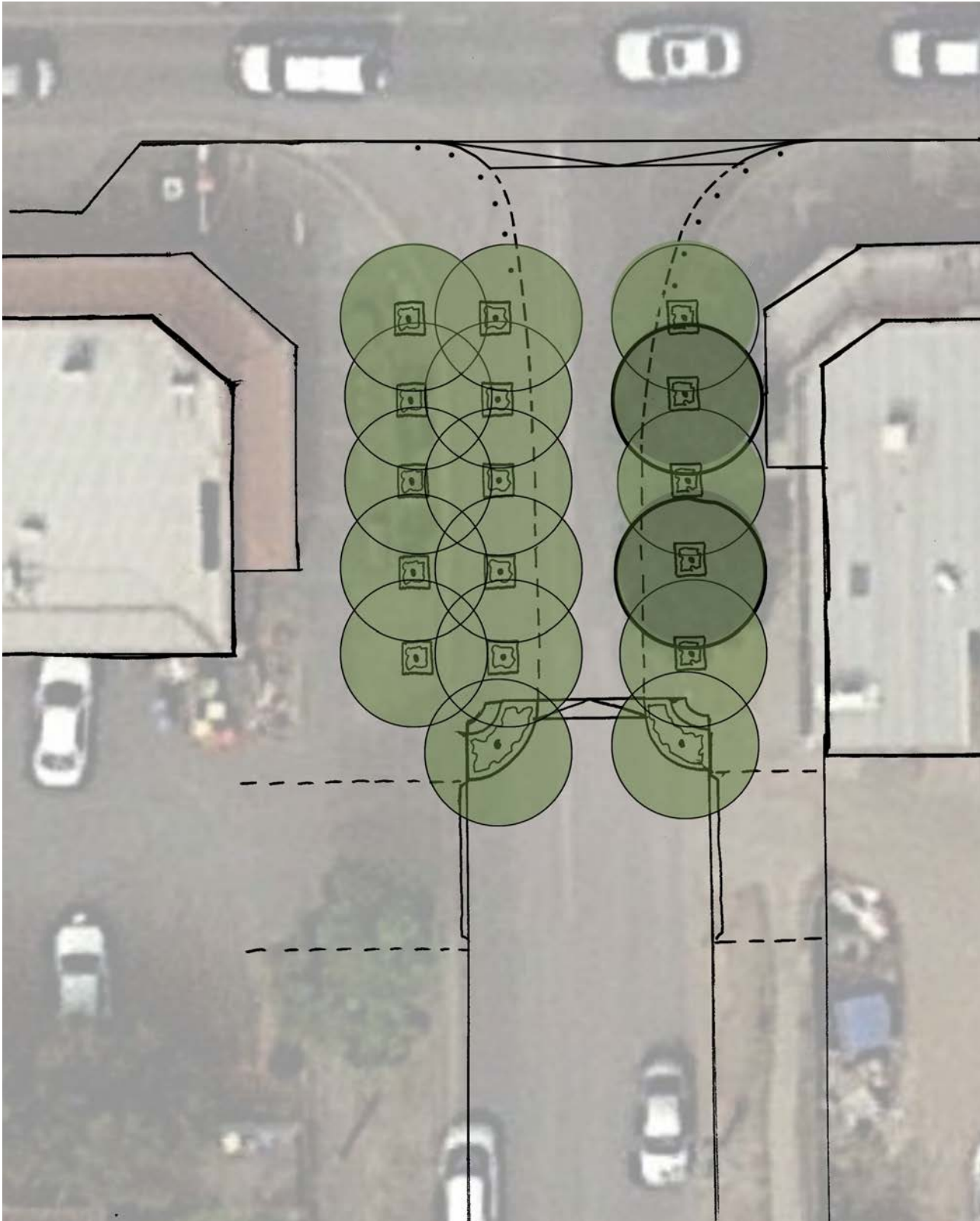


Prospect Road Concepts

Gladstone Avenue

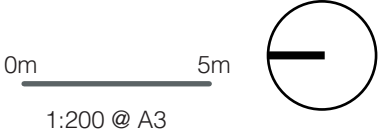
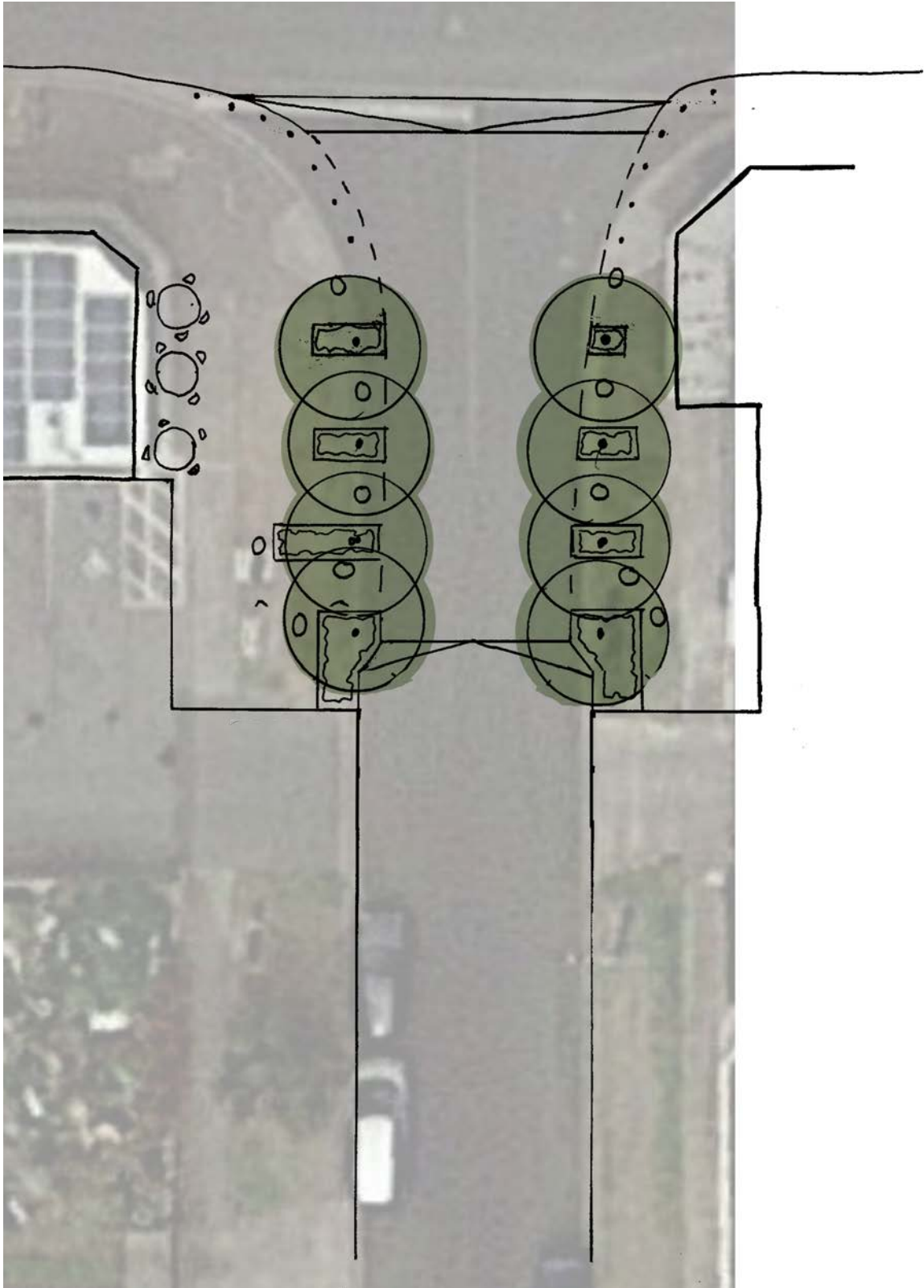


Le Hunte Street

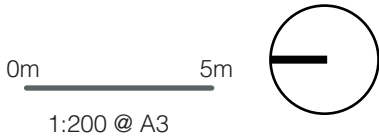


Prospect Road Concepts

Kintore Avenue

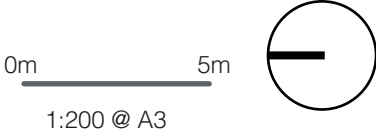
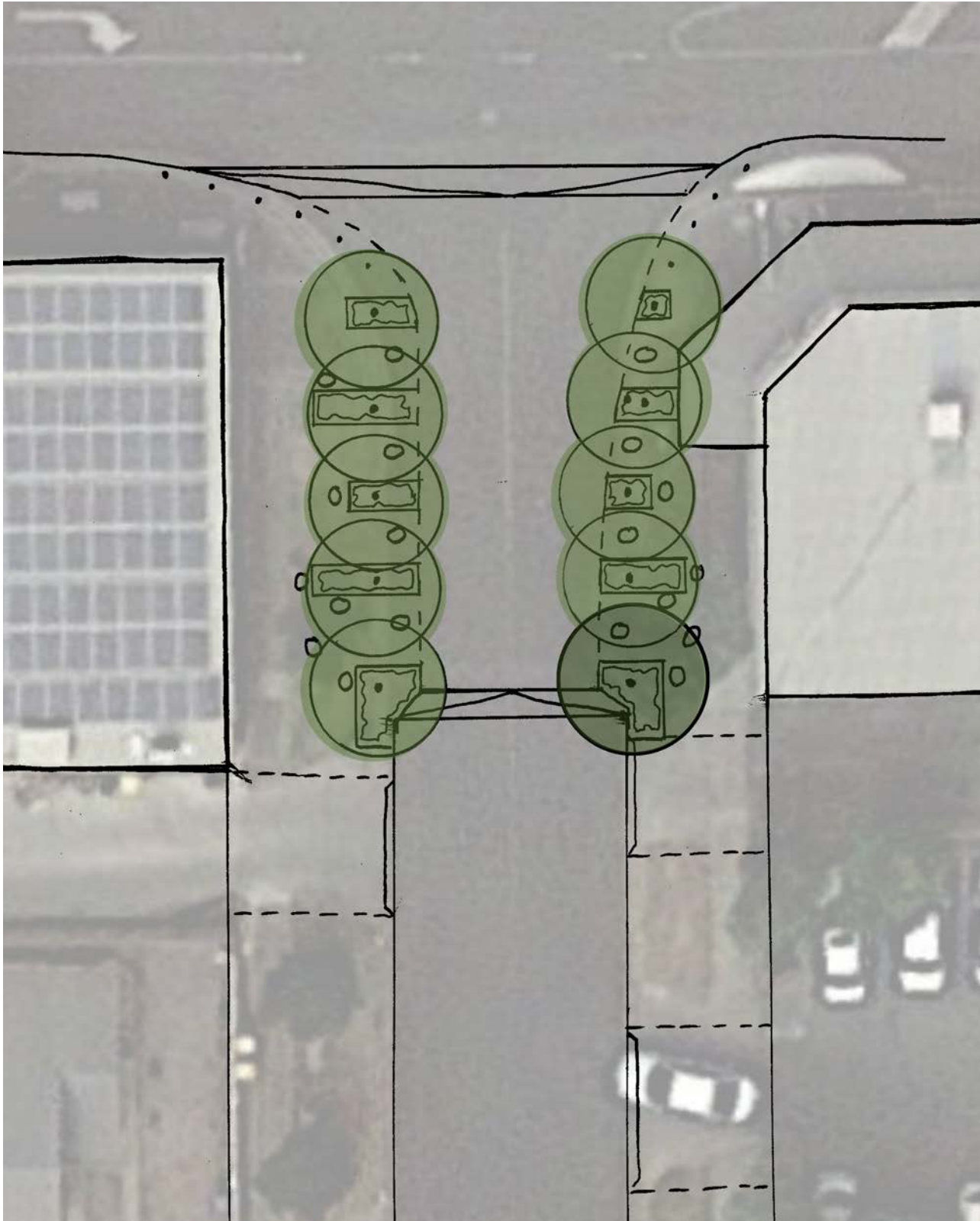


Clifton Street

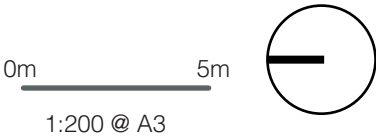
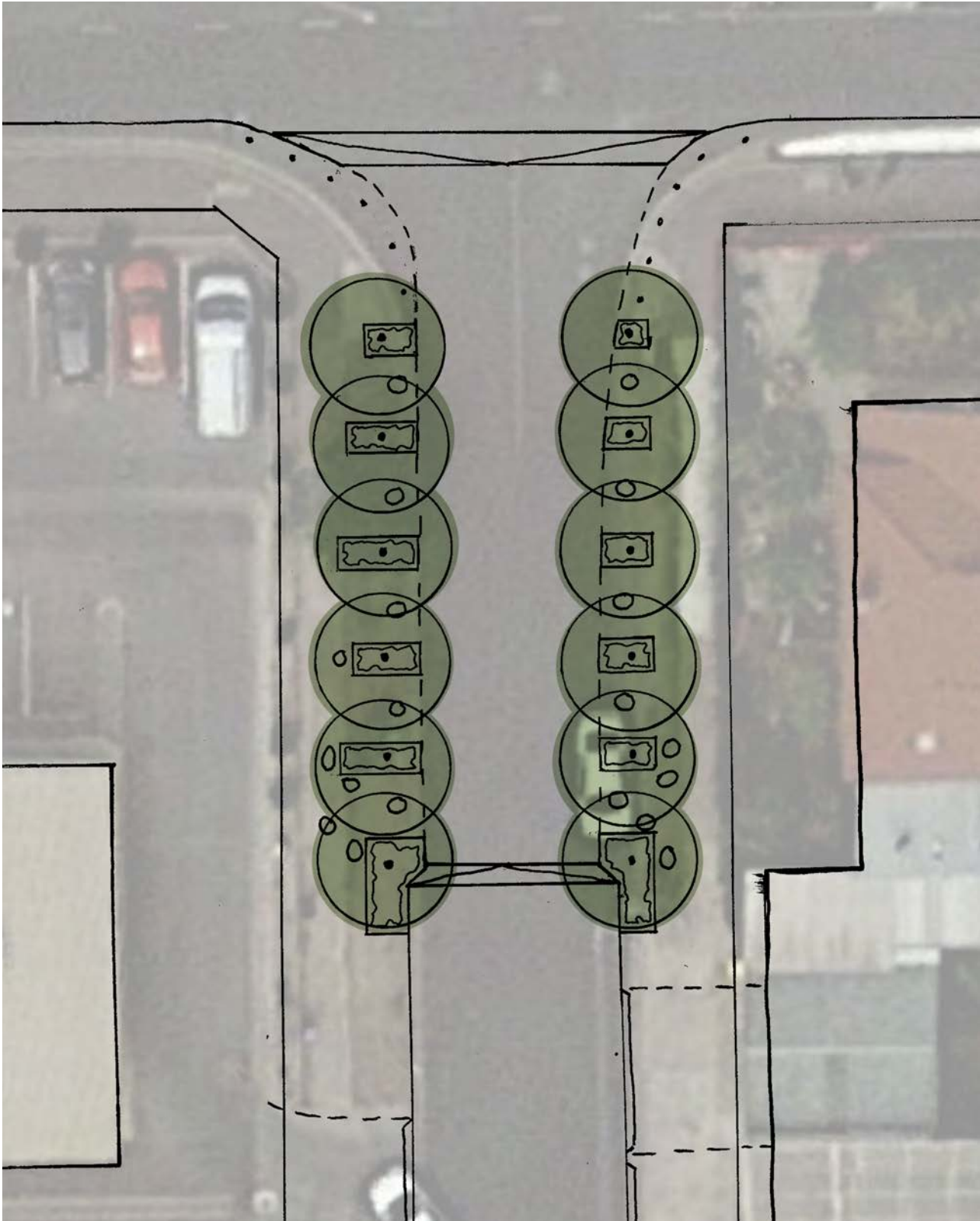


Prospect Road Concepts

Hopetoun Avenue

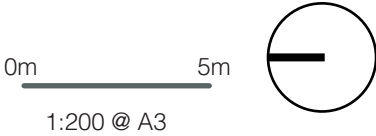


Jersey Avenue

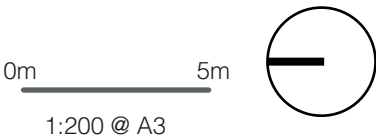
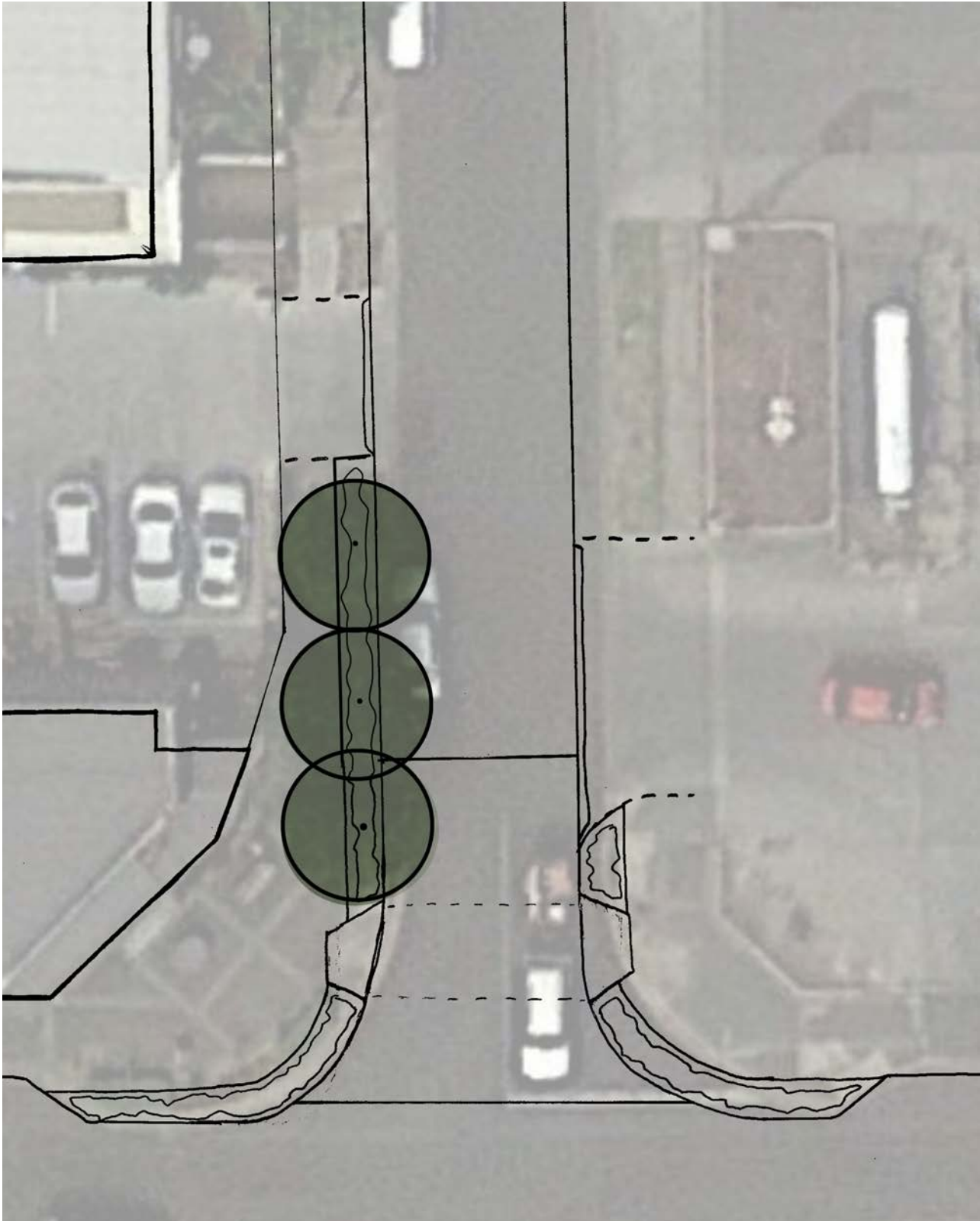


Prospect Road Concepts

Manuel Avenue

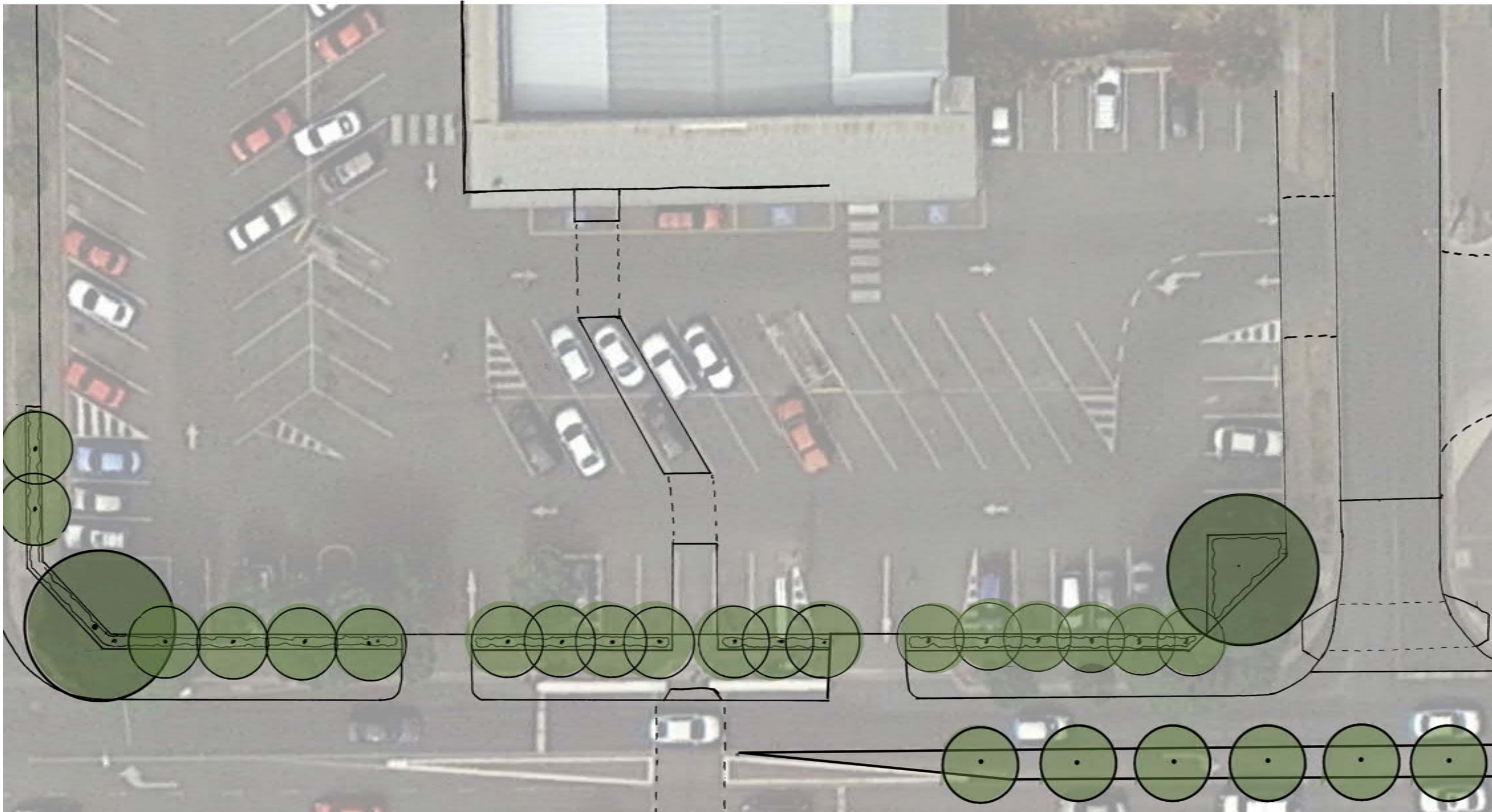


Trigg Street



Prospect Road Concepts

IGA/Audrey Option 1



On-street Parking Analysis

<u>PARKING SECTION REFERENCE</u>	<u>SIDE ROAD REFERENCE</u>	<u>AVAILABLE SPACES</u>	Average Number of Spaces Used in Section	Average % Parking Utilisation in Section
REF # A	North of Way St	2	0.2	10.7%
REF # B	North of Florence Ave	5	0.5	10.0%
REF # C	Between Way St and Le Hunte St	6	1.6	27.4%
REF # D	Between Way St and Le Hunte St	2	1.0	50.0%
REF # E	Between Le Hunte St and Gladstone Ave	4	2.1	53.6%
REF # F	Between Audrey Ave and Trigg St	3	1.0	33.3%
REF # G	Between Audrey Ave and Trigg St	2	0.3	14.3%
REF # H	Between Gladstone Ave and Jersey Ave	5	1.4	28.6%
REF # I	Between Trigg st and manuel Ave	2	0.4	17.9%
REF # J	Between Manuel Ave and Hopetoun Ave	9	5.6	61.9%
REF # K	Between Jersey Ave and Hopetoun Ave	6	3.5	58.3%
REF # L	Between Hopetoun and Clifton St	3	1.6	54.8%
REF # M	Between Hopetoun and Kintore Ave	5	0.7	14.3%
REF # N	Between Hopetoun and Kintore Ave	5	2.1	42.9%
REF # O	Opposite Kintore Ave	2	0.9	46.4%
REF # P	South of Kintore Ave	4	1.2	30.4%
REF # Q	South of Kintore Ave	1	0.5	50.0%
REF # R	South of Kintore Ave	1	0.1	14.3%
TOTAL AVAILABLE SPACES		67		