Proposed Mixed Use Development

280-298 Railway Parade, Carlton

TRAFFIC AND PARKING ASSESSMENT REPORT

28 August 2020

Ref 18516



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1. INTRODUCTION

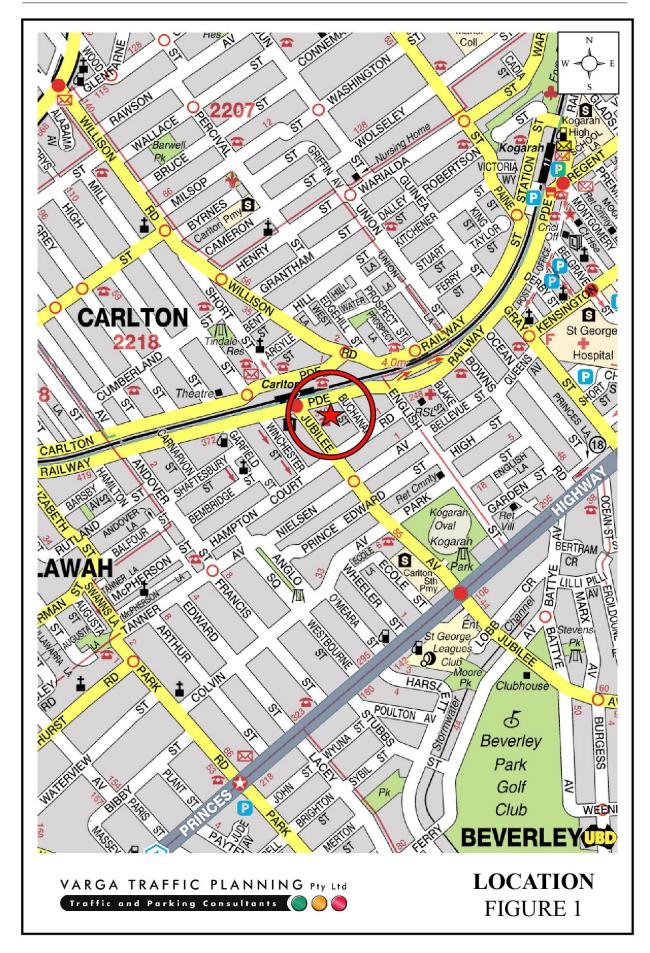
This report has been prepared to accompany a development application to Council for a mixed use development proposal to be located at 280-298 Railway Parade, Carlton (Figures 1 and 2).

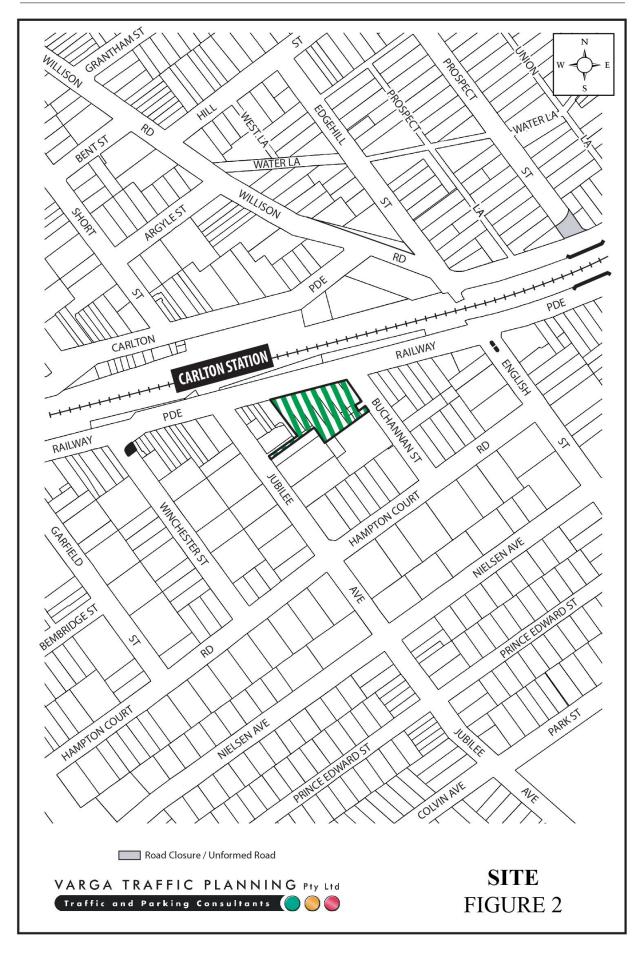
The proposed development involves the demolition of the existing buildings on the site to facilitate the staged construction of a new mixed use development.

Off-street car parking is to be provided in basement and at-grade car parking areas in accordance with Council and *SEPP 65* requirements. Vehicular access to the site is to be provided via a new entry/exit driveway located off Buchanan Street. An internal roadway also leads through the ground floor level to an exit-only driveway connecting to the existing battle-axe driveway and easement off Jubilee Avenue.

The purpose of this report is to assess the traffic and parking implications of the development proposal and to that end this report:

- describes the site and provides details of the development proposal
- reviews the road network and public transport services in the vicinity of the site
- estimates the traffic generation potential of the development proposal
- assesses the traffic implications of the development proposal in terms of road network capacity
- reviews the geometric design features of the proposed car parking and loading facilities for compliance with the relevant codes and standards
- assesses the adequacy and suitability of the quantum of off-street car parking and loading provided on the site.





2. PROPOSED DEVELOPMENT

Site

The subject site is located on the south-western corner of the Railway Parade and Buchanan Street intersection, with an existing battle-axe driveway plus an easement off Jubilee Avenue. The site has street frontages of approximately 78m in length to Railway Parade, approximately 3m in length to Jubilee Avenue and a combined street frontage of approximately 32m in length to Buchanan Street. The site occupies an area of approximately 3,512m².

The site lies within the Carlton Local Centre, is zoned *B2 Local Centre* and is situated approximately 100m walking distance west of the Carlton Railway Station pedestrian entrance.

A recent aerial image of the site and its surroundings is reproduced below.



No. 280-286 Railway Parade are currently occupied by four buildings used for commercial/retail purposes. The cumulative floor area of the existing buildings is estimated to be approximately 800m². Off-street parking is provided at the rear of the site, within an at-grade car parking area for each of the respective building.

No. 288-296 Railway Parade is currently occupied by a 24/7 gymnasium operated by *Hardcore Gym*, comprising a floor area of approximately 2,000m². The first floor level of the gymnasium also extends across the adjacent site above No.296-298 Railway Parade. Offstreet parking is provided along the access driveway and in an at-grade car parking area located at the rear of the building.

No. 296-298 is currently occupied by a commercial tenancy, comprising a floor area of approximately 250m², with a rear at-grade car parking area. Vehicular access to the car parking area is provided via a shared access driveway off Jubilee Avenue

Proposed Development

The proposed development involves the demolition of the existing buildings on the site to facilitate the staged construction of a new mixed use development on the site.

Stage 1 will comprise the construction of a new five-storey commercial building on the northern portion of the site, whilst Stage 2 will comprise the construction of a new mixed used building along the southern portion of the site comprising a commercial component on the ground floor level, with residential apartments on the levels above.

A total of 50 residential apartments are proposed in Stage 2 of the development, as follows:

1 bedroom apartments:	20
2 bedroom apartments:	30
TOTAL:	50

The entire development comprises a cumulative gross floor area of approximately $4,132m^2$ for the commercial component, as well as a cumulative gross leasable floor area of $888m^2$ for the retail component.

Off-street car parking is proposed for a total of 207 cars, with all but 38 spaces provided in a new part-two/part-three level basement car parking area. The remaining 38 parking spaces are proposed in an at-grade parking area.

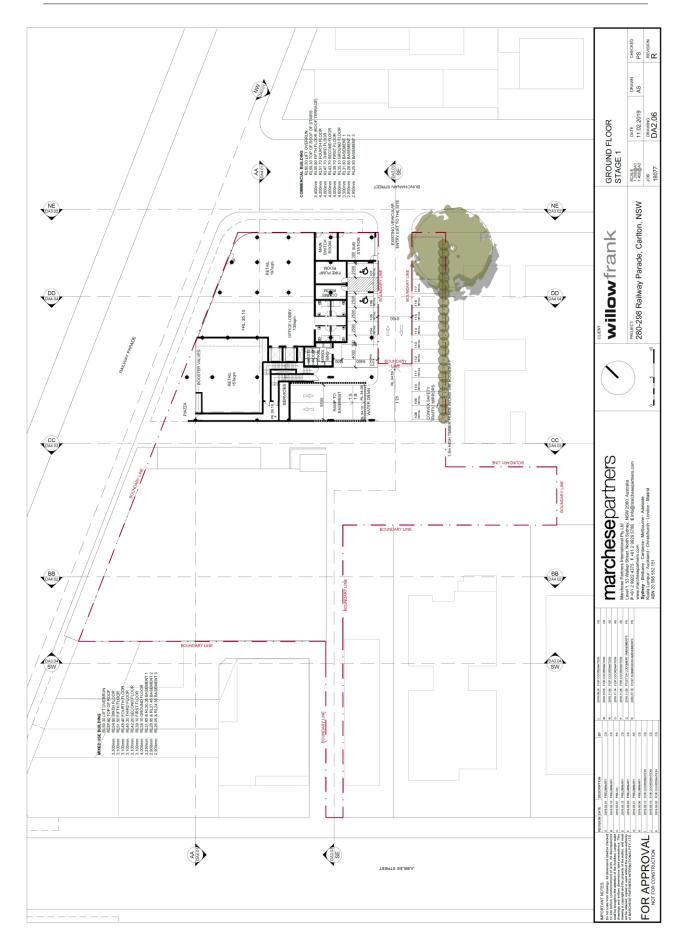
Vehicular access to the site is to be provided via a new entry/exit driveway located off Buchanan Street. An internal roadway also leads through the ground floor level to an exitonly driveway connecting to the existing battle-axe driveway and easement off Jubilee Avenue.

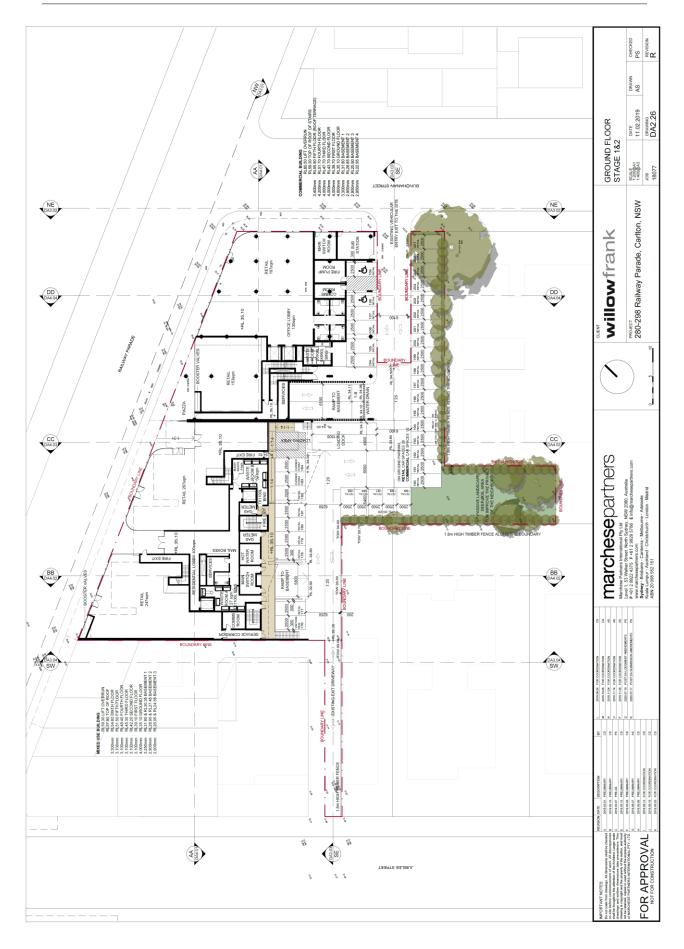
Loading/servicing for the proposed development is expected to be undertaken by a variety of light commercial vehicles such as vans, utilities and the like, up to and including 6.4m long SRV trucks. In this regard, given the size of the commercial suites, the proposed commercial component is expected to be serviced by a variety of light commercial vehicles such as vans, utilities and wagons, which are capable of fitting into a conventional parking space.

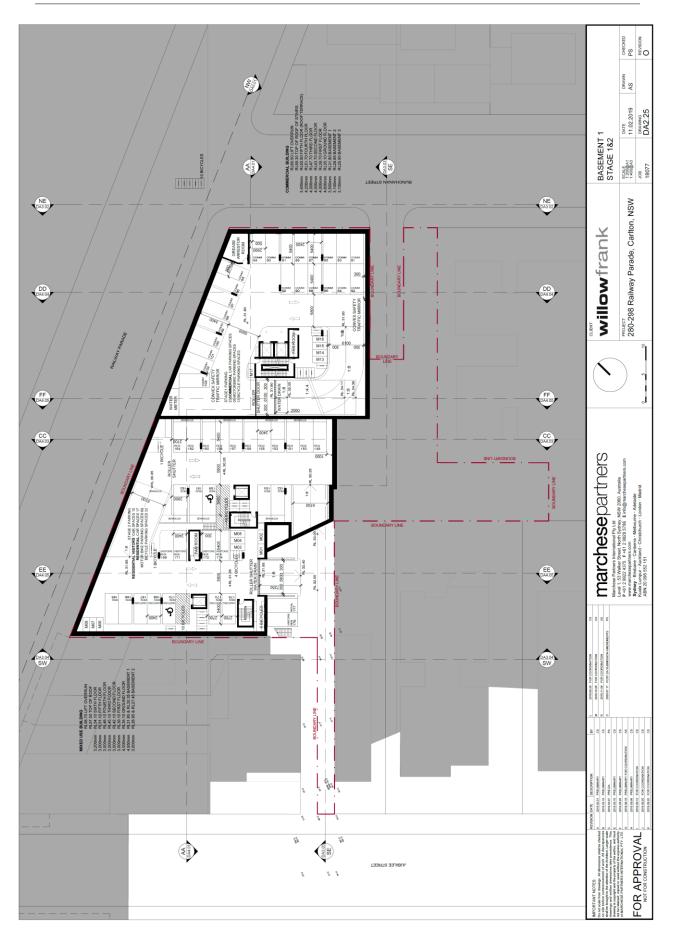
A temporary loading bay area is proposed in Stage 1, directly adjacent the garbage holding and will be capable of accommodating a 6.4m long SRV truck.

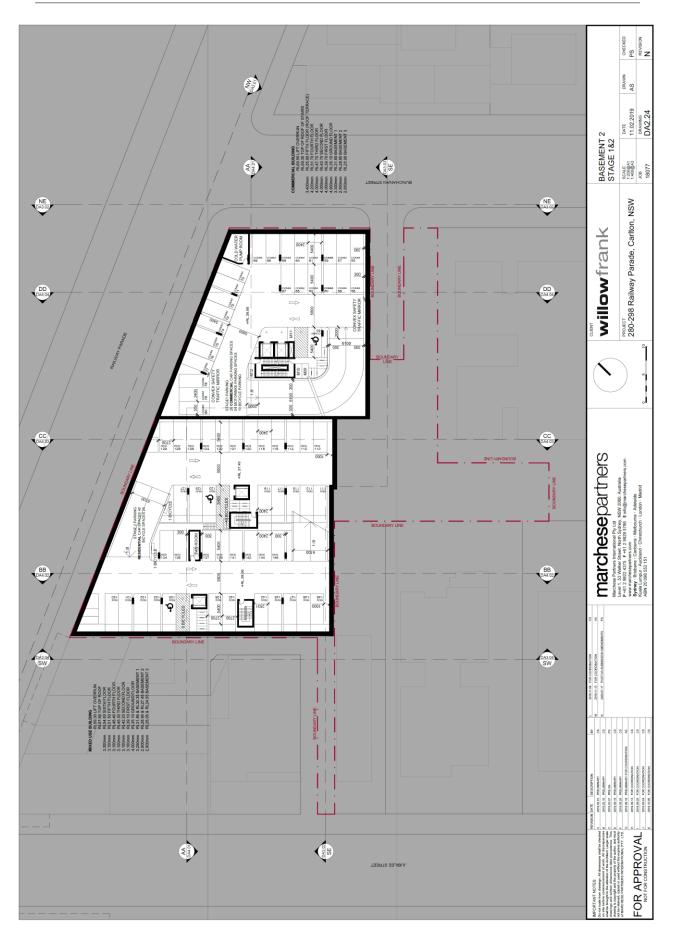
Once the Stage 2 development is completed, the service area will be relocated between the two buildings, near the garbage room areas for both the buildings. The Stage 2 loading dock will again be capable of accommodating commercial vehicles up to and including 6.4m long SRV trucks. Vehicular access to the loading dock is to be provided via the abovementioned site access driveway located at the southern end of the Buchanan Street site frontage.

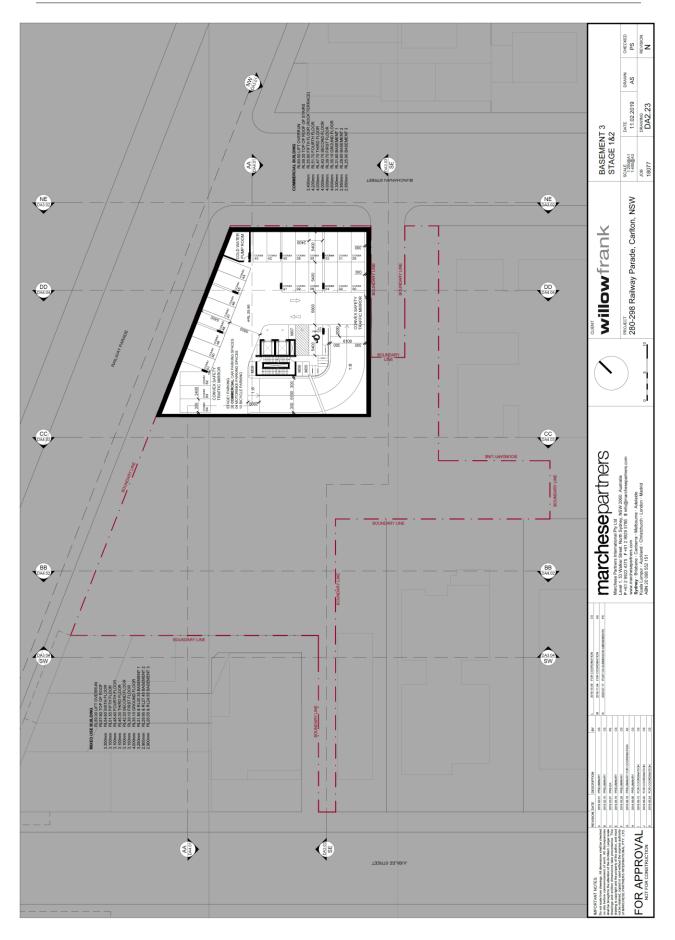
Plans of the proposed development have been prepared by *Marchese Partners International Pty Ltd* and are reproduced in the following pages.

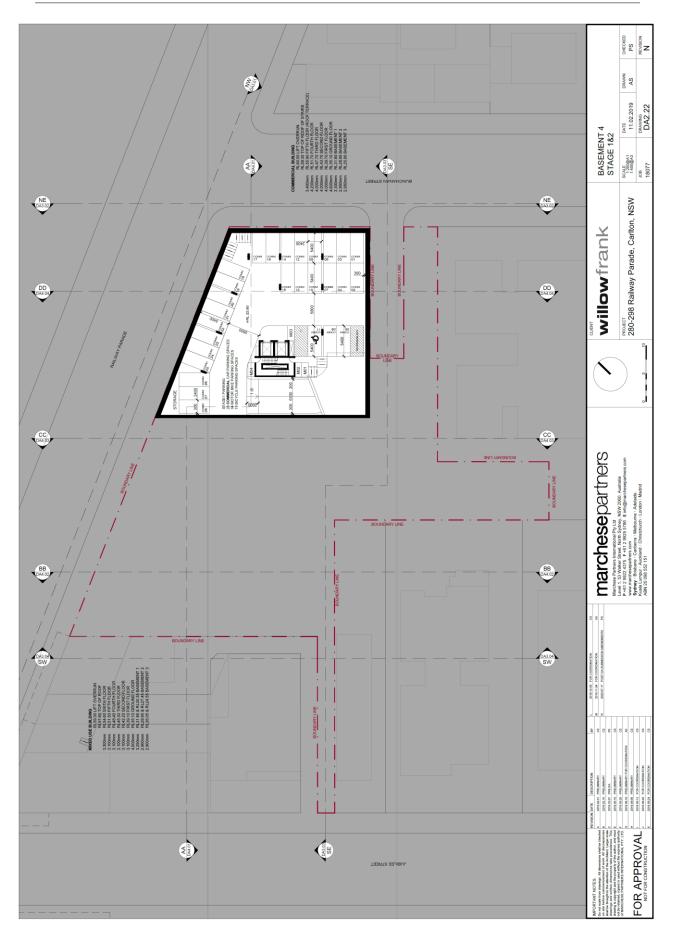












3. TRAFFIC ASSESSMENT

Road Hierarchy

The road hierarchy allocated to the road network in the vicinity of the site by the Roads and Maritime Services is illustrated on Figure 3.

The Princes Highway is classified by the RMS as a *State Road* and provides the key northsouth road link in the area. It typically carries three traffic lanes in each direction, with opposing traffic flows separated by a central concrete median island. Clearway restrictions apply during commuter peak periods.

Railway Parade is classified by the RMS as a *Regional Road*, linking Harrow Road to Woniora Road. It typically carries one traffic lane in each direction in the vicinity of the site with kerbside parking generally permitted, subject to sign posted restrictions.

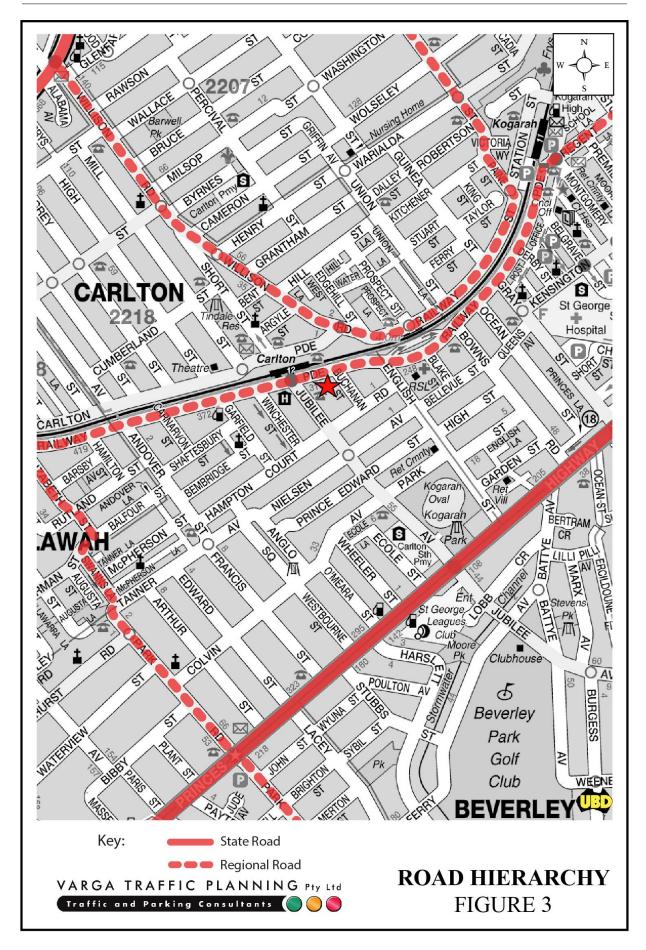
Elizabeth Street / Swanns Lane / Park Road are also classified by the RMS as *Regional Roads*, linking Bexley to Sans Souci. The route also typically carries one traffic lane in each direction, with kerbside parking generally permitted, subject to sign posted restrictions.

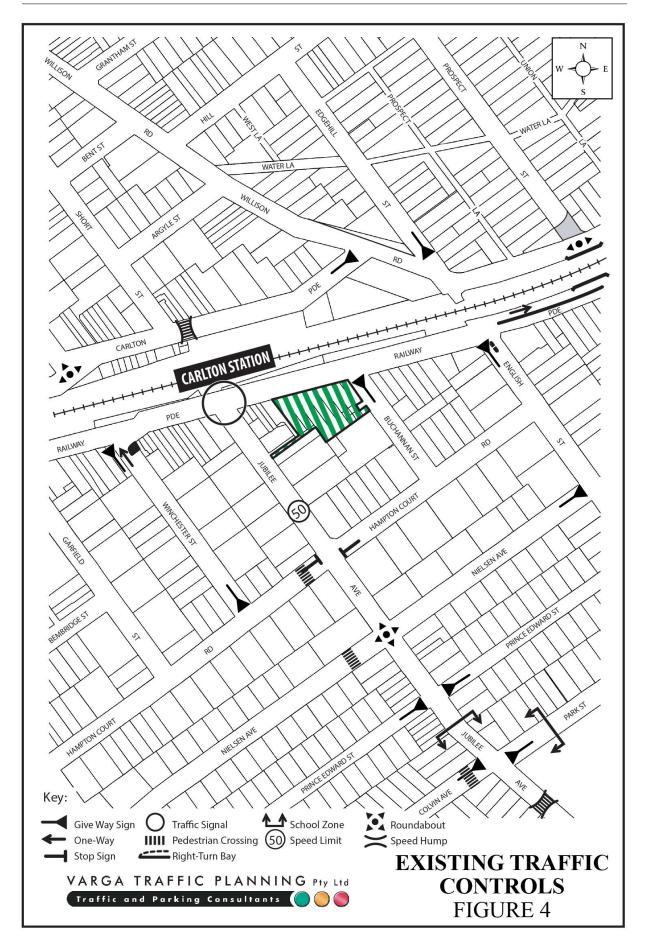
Buchanan Street and Jubilee Avenue are local, unclassified roads which are primarily used to provide vehicular and pedestrian access to frontage properties. Kerbside parking is generally permitted on both sides of both these roads.

Existing Traffic Controls

The existing traffic controls which apply to the road network in the vicinity of the site are illustrated on Figure 4. Key features of those traffic controls are:

 a 50 km/h SPEED LIMIT which applies to Railway Parade, Buchanan Street, Jubilee Avenue and all other local roads in the surrounding area





- TRAFFIC SIGNALS in Railway Parade where it intersects with Jubilee Avenue
- GIVE WAY SIGNS located on English Street, Buchanan Street and Winchester Street where they intersect with Railway Parade
- STOP SIGNS located along Hampton Court Road where it intersects with Jubilee Avenue
- a MID-BLOCK ROAD CLOSURE in Winchester Street, which precludes one-way northbound traffic movements
- PEDESTRIAN CROSSING located along Hampton Court Road, just west of the Jubilee Avenue intersection
- a ROUNDABOUT located in Jubilee Avenue where it intersects with Nielsen Avenue
- BLISTER ISLANDS located at various locations along Railway Parade to provide safety measures for pedestrian movements within the local area.

Existing Traffic Conditions

An indication of the existing traffic conditions on the road network in the vicinity of the site is provided by detailed peak period traffic surveys undertaken as part of this traffic study.

The detailed traffic surveys were undertaken at the 4 intersections located around the perimeter of the site on 8th August 2019 as follows:

- Railway Parade/Buchanan Street
- Railway Parade/Jubilee Avenue
- Jubilee Avenue/Hampton Circuit Road
- English Street/Hampton Circuit Road

The results of the traffic surveys are reproduced in full in Appendix A and reveal that:

- two-way traffic flows in Railway Parade in the vicinity of the Buchanan Street intersection are typically in the order of 1200-1400 vph during the peak periods
- two-way traffic flows in Railway Parade in the vicinity of the Jubilee Avenue intersection are typically in the order of 1000 vph during peak periods
- two-way traffic flows in Jubilee Avenue are typically in the order of 600 vph during the AM peak period, increasing to 650 vph during the PM peak period
- two-way traffic flows in Hampton Circuit Road in the vicinity of the Jubilee Avenue intersection are typically in the order of 200 vph during the AM peak period, decreasing to 150 vph during the PM peak period
- two-way traffic flows in Hampton Circuit Road in the vicinity of the English Street intersection are significantly lower, typically in the order of 40-50 vph during the peak periods
- two-way traffic flows in English Street in the vicinity of the Hampton Circuit Road are typically in the order of 100-150 vph during peak periods.
- two-way traffic flows in Buchanan Street in the vicinity of the site are typically in the order of 20-30 vph during peak periods.

Projected Traffic Generation

The traffic implications of the development proposal primarily concern the effects of the *additional* traffic flows generated as a result of the development and its impact on the operational performance of the adjacent road network.

An indication of the traffic generation potential of the proposed development is provided by reference to the Roads and Maritime Services publication *Guide to Traffic Generating Developments, Section 3 - Landuse Traffic Generation (October 2002)* and the updated traffic generation rates in the recently published RMS *Technical Direction (TDT 2013/04a)* document.

The *TDT 2013/04a* document specifies that it replaces those sections of the RMS *Guidelines* indicated, and that it must be followed when RMS is undertaken trip generation and/or parking demand assessments.

The RMS *Guidelines* and the updated *TDT 2013/04a* are based on extensive surveys of a wide range of land uses and nominate the following traffic generation rates which are applicable to the development proposal:

Office Blocks

- AM: 1.6 peak hour vehicle trips per $100m^2$ GFA
- PM: 1.2 peak hour vehicle trips per $100m^2$ GFA

High Density Residential Flat Dwellings

- AM: 0.19 peak hour vehicle trips unit
- PM: 0.15 peak hour vehicle trips unit

The RMS *Guidelines* also make the following observation in respect of high density residential flat buildings:

Definition

A *high density residential flat building* refers to a building containing 20 or more dwellings. This does not include aged or disabled persons housing. *High density residential flat buildings* are usually more than 5 levels, have basement level car parking and are located in close proximity to public transport services. The building may contain a component of commercial use.

Factors

The above rates include visitors, staff, service/delivery and on-street movements such as taxis and pickup/set-down activities.

The RMS *Guidelines* do not nominate a traffic generation rate for small, local shops, referring only to major regional shopping centres incorporating supermarkets and department stores. For the purpose of this assessment therefore, the traffic generation rate nominated in the RMS *Guidelines* for *office blocks* has been adopted in respect of the retail component of the development proposal.

Application of the above traffic generation rates to various components of the development proposal yields a traffic generation potential of approximately 90 vehicle trips per hour (vph) during the AM commuter peak period and approximately 66 vph during the PM commuter peak period, as set out below:

Projected Future Traffic Generation Potential of the Site							
	AM	PM					
Residential (50 apartments):	9.5 vph	6.0 vph					
Commercial/Retail Premises (~5,020m ²):	80.3 vph	60.2 vph					
TOTAL TRAFFIC GENERATION POTENTIAL:	89.8 vph	66.2 vph					

That projected future level of traffic generation potential should however, be offset or *discounted* by the volume of traffic which could reasonably be expected to be generated by the existing uses of the site, in order to determine the *nett increase (or decrease)* in traffic generation potential of the site which is expected to occur as a consequence of the development proposal.

The RMS guidelines and the updated *TDT 2013/04a* nominates the following *gymnasiums* traffic generation rate and the abovementioned *office premises* traffic generation rate to the existing buildings on the site.

Gymnasiums (Metropolitan sub-regional centres)

9 peak hour vehicle trips per 100m² GFA

Application of the above traffic generation rates to the existing buildings on the site yields a traffic generation potential of approximately 197 vph during the *morning* commuter peak period and approximately 193 vph during the *afternoon* commuter peak period, as set out below:

	Existing Landuse	AM	PM
No. 280-286 & No.296-298 Railway Parade	Commercial building (~1,050m ²)	16.8 vph	12.6 vph
No. 290-296 Railway Parade	24/7 Gymnasium (~2,000m²)	180.0 vph	180.0 vph
	TOTAL:	196.8 vph	192.6 vph

Existing Traffic Generation Potential of the Site

Accordingly, it is likely that the proposed development will result in a *reduction* in the traffic generation potential of the site during the *morning* and *afternoon* commuter peak periods, as set out below:

Projected Nett Increase in Peak Hour Traffic Generation Potential of the site as a consequence of the development proposal						
Projected Future Traffic Generation Potential:	89.8 vph	66.2 vph				
Less Existing Traffic Generation Potential:	-196.8 vph	-192.6 vph				
NETT INCREASE IN TRAFFIC GENERATION POTENTIAL:	-107.0 vph	- 126.4 vph				

That projected increase in the traffic generation potential of the site as a consequence of the development proposal will not have any unacceptable traffic implications in terms of road network capacity, as is demonstrated by the following section of this report.

Traffic Implications - Road Network Capacity

The traffic implications of development proposals primarily concern the effects that any *additional* traffic flows may have on the operational performance of the nearby road network. Those effects can be assessed using the SIDRA program which is widely used by the RMS and many LGA's for this purpose. Criteria for evaluating the results of SIDRA analysis are reproduced in the following pages.

The results of the SIDRA capacity analysis of the 4 surrounding intersections are summarised on Tables 3.1, 3.2 3.3 and 3.4 on the following pages, revealing that:

Railway Parade/Buchanan Street Intersection

- the Railway Parade and Buchanan Street intersection currently operates at *Level of Service "A"* under the existing traffic demands with total average vehicle delays in the order of approximately 0.4 seconds/vehicle
- under the projected future traffic demands expected to be generated by the development proposal, the intersection would continue to operate at a *Level of Service* "A" during the commuter peak periods as well as the afternoon school peak being

between 2:30pm and 3:30pm, with increases in average vehicle delays of *less than* 1 second/vehicle.

Railway Parade/Jubilee Avenue Intersection

- the Railway Parade and Jubilee Avenue intersection currently operates at *Level of Service "C"* during the *morning* commuter peak period and at a *Level of Service "B"* during the *afternoon* school peak and commuter peak periods under the existing traffic demands, with total average vehicle delays in the order of approximately 25.1 seconds/vehicle
- under the projected future traffic demands expected to be generated by the development proposal, the intersection would continue to operate at *Level of Service* "C" during the AM peak period and at a *Level of Service* "B" during the PM peak period as well as the *afternoon* school peak being between 2:30pm and 3:30pm, with increases in average vehicle delays of *less than* 1 second/vehicle.

Jubilee Avenue/Hampton Circuit Road Intersection

- the Jubilee Avenue and Hampton Circuit Road intersection currently operates at *Level* of Service "A" under the existing traffic demands with total average vehicle delays in the order of approximately 2.8 seconds/vehicle
- under the projected future traffic demands expected to be generated by the development proposal, the intersection would continue to operate at a *Level of Service* "A" during the commuter peak periods as well as the afternoon school peak being between 2:30pm and 3:30pm, with increases in average vehicle delays of *less than* 1 second/vehicle.

English Street/Hampton Circuit Road Intersection

• the English Street and Hampton Circuit Road intersection currently operates at *Level* of Service "A" under the existing traffic demands with total average vehicle delays in the order of approximately 1.9 seconds/vehicle under the projected future traffic demands expected to be generated by the development proposal, the intersection would continue to operate at a *Level of Service* "A" during the commuter peak periods as well as the afternoon school peak being between 2:30pm and 3:30pm, with increases in average vehicle delays of *less than* 1 second/vehicle.

In the circumstances, it is clear that the proposed development will not have any unacceptable traffic implications in terms of road network capacity.

		Existing Traffic Demand			Projected Development Traffic Demand		
Key Indicators		AM	SCHOOL PEAK (Afternoon)	PM	AM	SCHOOL PEAK (Afternoon)	PM
Level of Service		А	А	А	А	А	А
Degree of Saturation		0.538	0.346	0.368	0.610	0.383	0.407
Average Vehicle Delay (secs/veh)							
× ,	L R	5.9 19.2	7.4 14.3	7.7 13.8	6.1 26.4	8.0 17.4	8.4 16.8
5	L T	4.6 0.0	4.6 0.0	4.6 0.0	4.6 0.0	4.6 0.1	4.6 0.1
	T R	0.1 7.9	0.2 9.4	0.2 9.6	0.3 9.2	0.4 10.8	0.4 11.0
TOTAL AVERAGE VEHICLE DELAY		0.4	0.4	0.5	0.9	0.8	0.8
			RAI_BUCX			RAI_BUCP	

TABLE 3.1 – RESULTS OF SIDRA ANALYSIS OFRAILWAY PARADE & BUCHANAN STREET

TABLE 3.2 – RESULTS OF SIDRA ANALYSIS OF RAILWAY PARADE & JUBILEE AVENUE							
Key Indicators		Existing Traffic Demand			Projected Development Traffic Demand		
		AM	SCHOOL PEAK (Afternoon)	РМ	AM	SCHOOL PEAK (Afternoon)	PM
Level of Service		С	В	В	C	В	В
Degree of Saturation		0.868	0.608	0.615	0.868	0.587	0.623
Average Vehicle Delay (secs/veh)							
· /	L R	10.4 43.8	29.7 43.9	28.0 41.2	10.5 44.6	29.9 42.8	28.2 41.2
.	L T	41.1 50.8	17.0 16.1	18.7 18.3	41.1 50.8	17.0 16.1	18.7 18.3
	T R	22.0 29.7	11.3 18.3	13.8 22.6	22.0 29.7	11.8 18.9	13.8 22.6
TOTAL AVERAGE VEHICLE DELAY		32.8	20.2	22.2	32.9	20.3	22.3
			RAI_JUBX	<u> </u>	1	RAI_JUBP	<u> </u>

Key Indicators		Existing Traffic Demand			Projected Development Traffic Demand		
		AM	SCHOOL PEAK (Afternoon)	PM	АМ	SCHOOL PEAK (Afternoon)	PM
Level of Service		А	А	А	А	А	А
Degree of Saturation		0.287	0.040	0.255	0.341	0.050	0.287
Average Vehicle Delay (secs/veh)							
Jubilee Avenue (south)	L T R	5.3 0.0 5.7	5.2 0.0 5.2	5.3 0.1 6.0	5.6 0.1 5.9	5.3 0.0 5.3	5.5 0.1 6.2
Hampton Circuit Road (east)	L T R	8.5 12.8 14.4	8.1 8.1 8.1	8.8 12.8 13.0	8.6 14.6 16.6	8.2 8.3 8.3	8.9 14.1 14.4
Jubilee Avenue (north)	L T R	7.6 0.4 7.8	5.6 0.0 5.7	7.1 0.3 7.5	7.9 0.5 8.2	5.6 0.0 5.7	7.4 0.4 7.8
Hampton Circuit Road (west)	L T R	10.8 13.3 14.8	8.3 8.2 8.1	9.9 12.6 14.0	11.7 15.7 17.8	8.3 8.3 8.3	10.4 14.0 15.9
TOTAL AVERAGE VEHICLE DELAY		3.3	1.8	3.2	3.7	1.9	3.4

TABLE 3.3 – RESULTS OF SIDRA ANALYSIS OF

TABLE 3.4 – RESULTS OF SIDRA ANALYSIS OF ENGLISH STREET & HAMPTON CIRCUIT ROAD							
Key Indicators		Existing Traffic Demand			Projected Development Traffic Demand		
		AM	SCHOOL PEAK (Afternoon)	РМ	AM	SCHOOL PEAK (Afternoon)	PM
Level of Service		А	А	А	А	А	А
Degree of Saturation		0.038	0.049	0.053	0.048	0.054	0.059
Average Vehicle Delay (secs/veh)							
English Street (south)	L T	4.6 0.0	4.6 0.0	4.6 0.0	4.6 0.0	4.6 0.0	4.6 0.0
English Street (north)	T R	0.0 4.7	0.0 4.7	0.0 4.7	0.0 4.7	0.0 4.7	0.0 4.7
Hampton Circuit Road (west)	L R	4.6 4.9	4.6 5.0	4.6 5.0	4.7 4.9	4.6 5.0	4.6 5.0
TOTAL AVERAGE VEHICLE DELAY		1.9	1.8	1.9	2.1	2.1	2.2
			ENG HAMX	•		ENG HAMP	•

TABLE 3.4 – RESULTS OF SIDRA ANALVSIS OF

ENG_HAMX

ENG_HAMP

Criteria for Interpreting Results of Sidra Analysis

1. Level of Service (LOS)

LOS	Traffic Signals and Roundabouts	Give Way and Stop Signs
'A'	Good operation.	Good operation.
'B'	Good with acceptable delays and spare capacity.	Acceptable delays and spare capacity.
'C'	Satisfactory.	Satisfactory but accident study required.
'D'	Operating near capacity.	Near capacity and accident study required.
'E'	At capacity; at signals incidents will cause excessive	At capacity and requires other control mode.
	delays. Roundabouts require other control mode.	
'F'	Unsatisfactory and requires additional capacity.	Unsatisfactory and requires other control mode.

2. Average Vehicle Delay (AVD)

The AVD provides a measure of the operational performance of an intersection as indicated on the table below which relates AVD to LOS. The AVD's listed in the table should be taken as a guide only as longer delays could be tolerated in some locations (ie inner city conditions) and on some roads (ie minor side street intersecting with a major arterial route).

Level of Service	Average Delay per Vehicle (secs/veh)	Traffic Signals, Roundabout	Give Way and Stop Signs
А	less than 14	Good operation.	Good operation.
В	15 to 28	Good with acceptable delays and spare capacity.	Acceptable delays and spare capacity.
С	29 to 42	Satisfactory.	Satisfactory but accident study required.
D	43 to 56	Operating near capacity.	Near capacity and accident study required.
E	57 to 70	At capacity; at signals incidents will cause excessive delays. Roundabouts require other control mode.	At capacity and requires other control mode.

3. Degree of Saturation (DS)

The DS is another measure of the operational performance of individual intersections.

For intersections controlled by traffic signals¹ both queue length and delay increase rapidly as DS approaches 1, and it is usual to attempt to keep DS to less than 0.9. Values of DS in the order of 0.7 generally represent satisfactory intersection operation. When DS exceeds 0.9 queues can be anticipated.

For intersections controlled by a roundabout or GIVE WAY or STOP signs, satisfactory intersection operation is indicated by a DS of 0.8 or less.

¹

The values of DS for intersections under traffic signal control are only valid for cycle length of 120 secs.

4. PARKING IMPLICATIONS

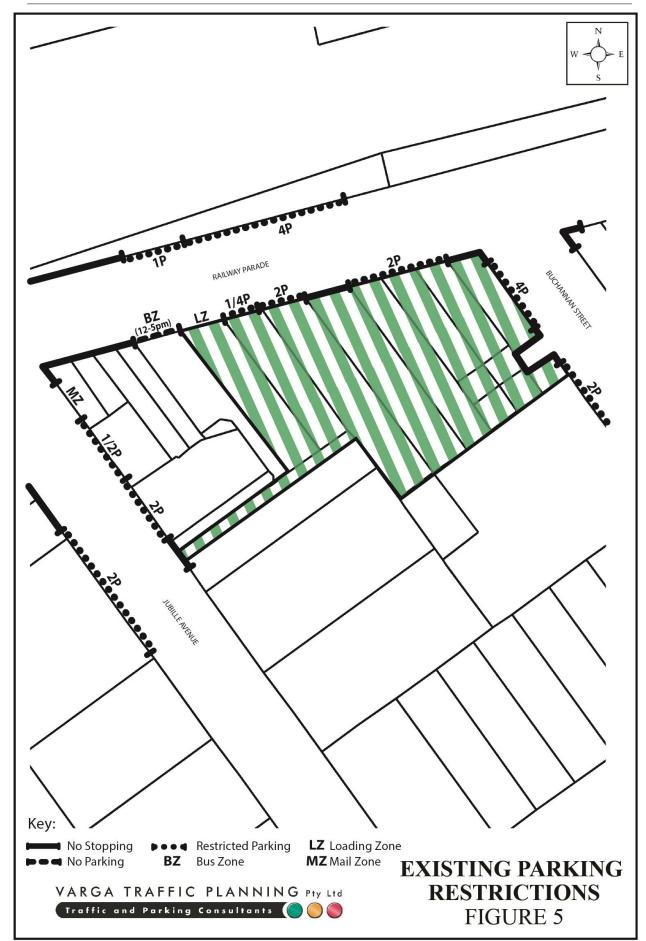
Existing Kerbside Parking Restrictions

The existing kerbside parking restrictions which apply to the road network in the vicinity of the site are illustrated on Figure 5. Key features of those parking restrictions are:

- 2 HOUR PARKING / ¼ HOUR PARKING along the southern side of Railway Parade, in the vicinity of the site
- 4 HOUR PARKING / 1 HOUR PARKING along the northern side of Railway Parade, in the vicinity of the site
- a LOADING ZONE located on the southern side of Railway Parade, on the western portion of the site frontage
- BUS ZONES located at regular intervals along both sides of Railway Parade, including immediately west of the site frontage, between 12PM 5PM
- ¹/₂ HOUR PARKING / 2 HOUR PARKING along both sides of Jubilee Avenue, in the vicinity of the Carlton Local Centre
- 4 HOUR PARKING / 2 HOUR PARKING along the western side of Buchanan Street, in the vicinity of the Carlton Local Centre
- generally UNRESTRICTED kerbside parking elsewhere along both sides of Jubilee Avenue, Buchanan Street and throughout the local area

Off-Street Car Parking Provisions

The off-street parking requirements applicable to the development proposal are specified in Council's *Development Control Plan 2013: Part B4 – Parking and Traffic* document in the following terms:



Shop Top Housing/Mixed Use Development

1 bedroom apartments:	1 space per unit	
2 bedrooms apartments:	1.5 spaces per unit	
Visitors:	1 space per 5 units*	
*1 designated car wash bay which may also be a visitor space		
Retail Premises – Shops		
1 space per 25m ² GLA		
*Floor area >500m ² to 1,500m ² - 2 bays required		
Offices/commercial		
1 space per 40m ² GFA		
*Floor area 1,000m ² to 5,000m ² - 1 bay required		

Application of the above parking requirements to the various components outlined in the development proposal yields an off-street parking requirement of 218 parking spaces as set out below:

Residential (50 apartments):	65.0 spaces
Visitors:	10.0 spaces (including a car wash bay)
Retail (888m ²):	35.5 spaces
Commercial (4,132m ²):	103.3 spaces
Loading Bay:	3.0 spaces (including 2 courier spaces)
TOTAL:	217.8 spaces

Notwithstanding, the subject site is located approximately 100m walking distance of a railway station in the Sydney metropolitan area, and therefore the residential component of the development is also subject to the parking requirements specified in the *State Environmental Planning Policy No* 65 – *Design Quality of Residential Flat Development* (*Amendment No 3*), 2015 in the following terms:

30 Standards that cannot be used to refuse development consent or modification of development consent

(1) If an application for the modification of a development consent or a development application for the carrying out of development to which this Policy applies satisfies the following design criteria, the consent authority must not refuse the application because of those matters:a) if the car parking for the building will be equal to, or greater than, the recommended

minimum amount of car parking specified in Part 3J of the Apartment Design Guide.

Reference is therefore made to the *Apartment Design Guide 2015, Section 3J – Bicycle and Car Parking* document which nominates the following car parking requirements:

Objective 3J-1

Car parking is provided based on proximity to public transport in metropolitan Sydney and centres in regional areas

For development in the following locations:

- on sites that are within 800 metres of a railway station or light rail stop in the Sydney Metropolitan Area; or
- on land zoned, and sites within 400 metres of land zoned, B3 Commercial Core, B4 Mixed Use or equivalent in a nominated regional centre

the minimum car parking requirements for residents and visitors is set out in the Guide to Traffic Generating Developments, or the car parking requirement prescribed by the relevant council, whichever is less.

The car parking needs for a development must be provided off street.

Comparison therefore needs to be drawn between the off-street car parking requirements for residential flat buildings outlined in the Council's *DCP 2013* and also the RMS *Guidelines* to determine the *lesser* requirement. The relevant car parking rates outlined in the RMS *Guidelines* are reproduced below:

RMS Guidelines – High Density Residential Flat Buildings in Metropolitan Sub-Regional Centres

- 0.6 spaces per 1 bedroom unit
- 0.9 spaces per 2 bedroom unit
- 1 space per 5 units for visitor parking

Accordingly, the minimum off-street car parking requirement applicable to the residential component of the development is 49 spaces, comprising 39 residential spaces and 10 visitor spaces, as set out below:

	Kogarah DCP 2013	RMS Guidelines
Residents:	65 spaces	39 spaces
Visitors:	10 spaces	10 spaces
Total:	75 spaces	49 spaces
Lesser car parking requirement: 49 spaces		

The total minimum off-street parking requirement applicable to the proposed development is therefore 188 spaces as set out below:

Minimum Off-Street Parking Requirement		
Residential (50 apartments):	39.0 spaces (RMS)	
Visitors:	10.0 spaces (RMS/DCP – including a car wash bay)	
Retail (888m ²):	35.5 spaces (DCP)	
Commercial (4,132m ²):	103.3 spaces (DCP – including 2 courier bays)	
TOTAL:	187.8 spaces	

The proposed development makes provision for a total of 207 off-street car parking spaces, comprising 57 residential spaces, 10 residential visitor spaces (including a shared car wash bay), 105 commercial spaces (including 2 courier bays) and 35 retail spaces, thereby satisfying both Council's parking requirement for the commercial component, and the *SEPP* 65 parking requirements for the residential component of the development proposal.

The geometric design layout of the proposed car parking facilities have been designed to comply with the relevant requirements specified in the Standards Australia publication *Parking Facilities Part 1 - Off-Street Car Parking AS2890.1* and *Parking Facilities Part 6 - Off-Street Parking for People with Disabilities AS2890.6* in respect of ramp gradients and widths, parking bay dimensions, aisle widths and overhead clearances.

Furthermore, it is noted that the residential car parking areas have been separated from the commercial/retail parking spaces, with all retail spaces provided at-grade, in accordance with Council's *DCP* requirements.

Off-Street Bicycle Parking Provisions

The off-street bicycle parking requirements applicable to the development proposal are also specified in Council's *Development Control Plan 2013 – Part B4 –Parking and Traffic* document in the following terms:

Residential

Residents:	1 space per 3 dwellings
Visitors:	1 space per 10 dwellings

Commercial

1 space per 5 car parking spaces

Application of the above bicycle parking requirements to the 50 residential apartments and 140 commercial/retail parking spaces outlined in the development proposal yields an offstreet bicycle parking requirement of 50 spaces.

The proposed development makes provision for a total of 104 off-street bicycle parking spaces located across the basement levels, thereby *comfortably* satisfying Council's bicycle parking requirements.

Loading/Servicing Provisions

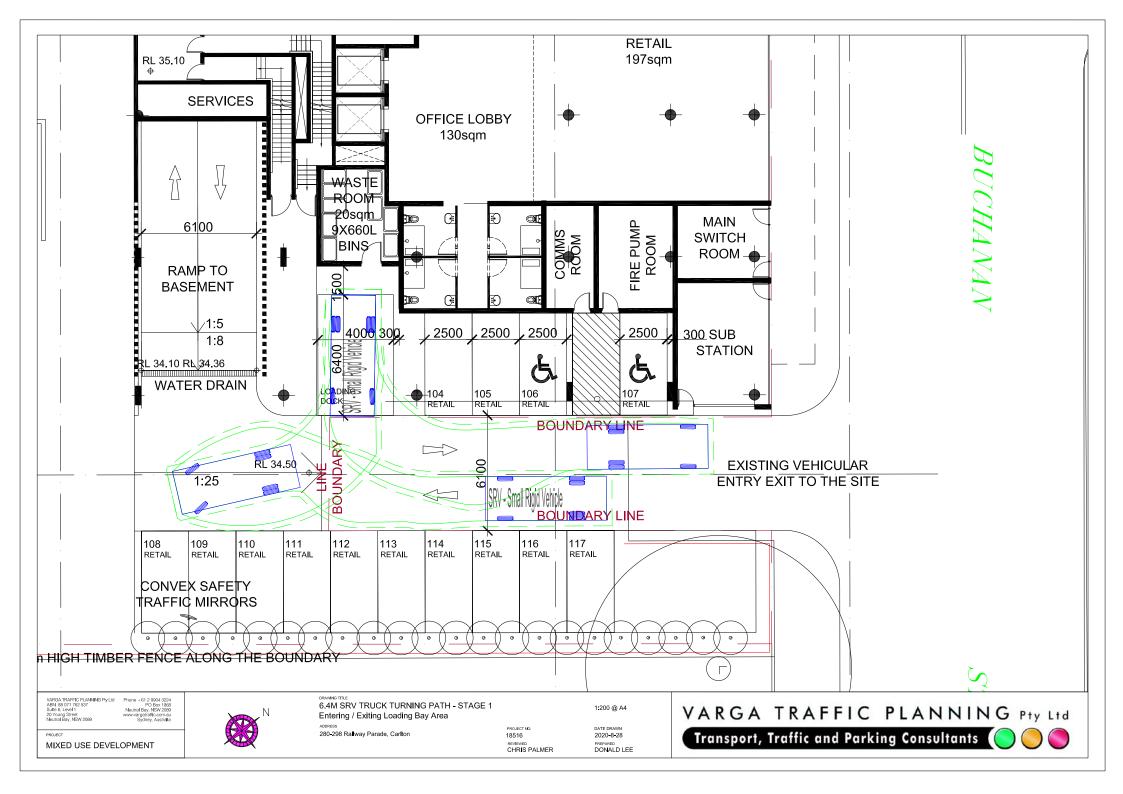
The proposed development is expected to be serviced by a variety of light commercial vehicles such as white vans and utilities, and trucks up to and including 6.4m long SRV trucks.

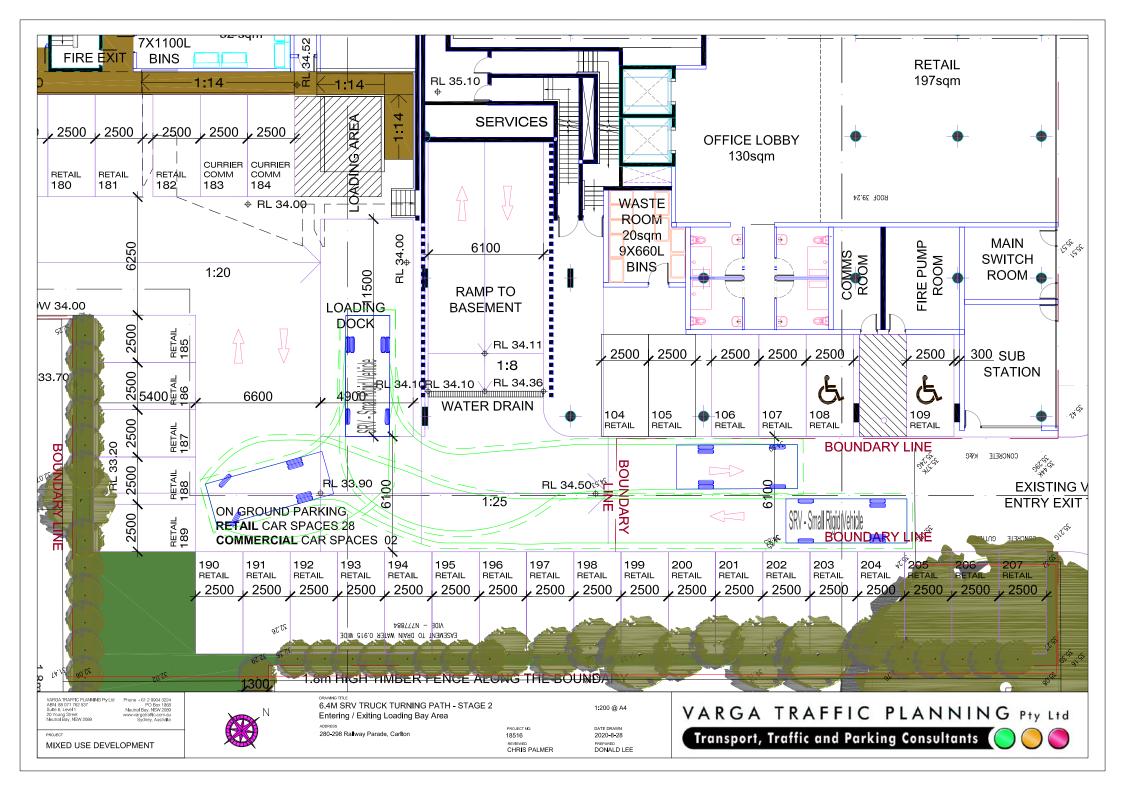
A temporary loading bay area is proposed in Stage 1 adjacent the bin holding area, which will be capable of accommodating a 6.4m long SRV truck. Once Stage 2 is completed, the service area will be relocated between the two buildings, near the garbage room areas for both buildings.

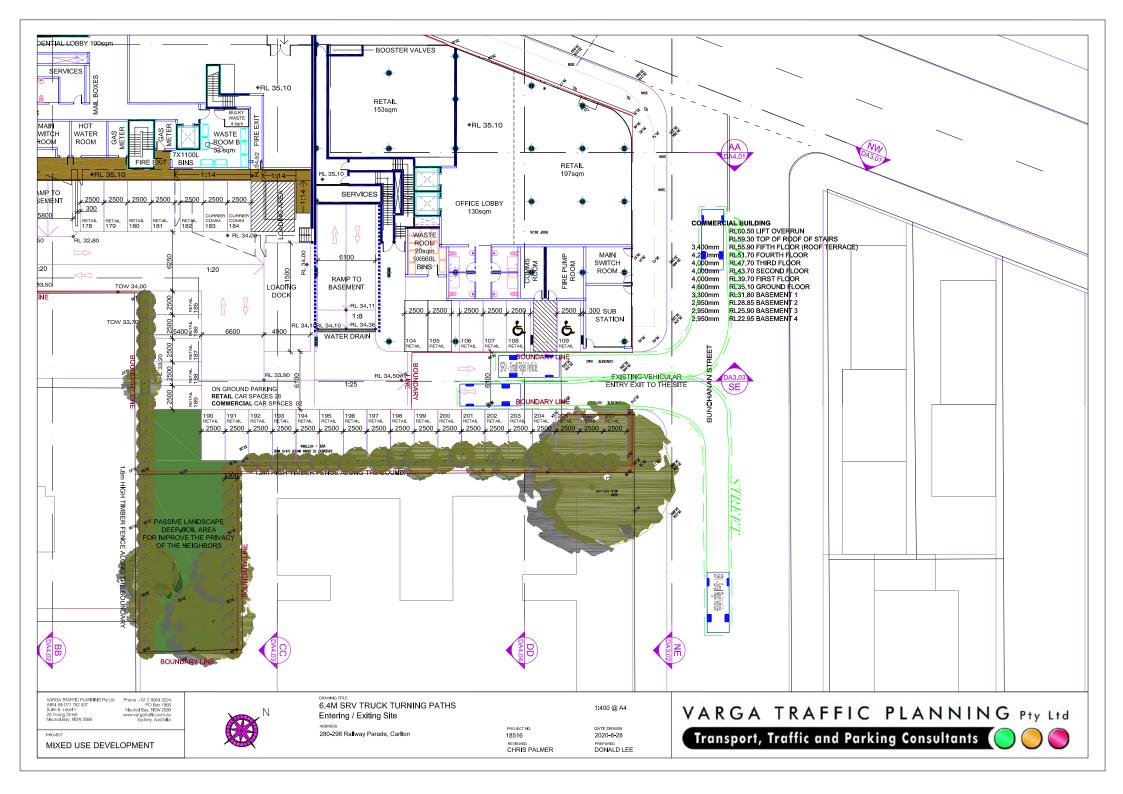
The manoeuvring areas has been designed to accommodate the swept turning path requirements of these service vehicles, allowing them to enter and exit the site whilst travelling in a forward direction at all times as demonstrated by the attached *swept turning path* diagrams.

The geometric design layout of the proposed upper parking level loading facilities have been designed to comply with the relevant requirements specified in the Standards Australia publication *Parking Facilities Part 2 - Off-Street Commercial Vehicle Facilities AS2890.2* in respect of loading bay dimensions, overhead clearances and service area requirements for the SRV trucks.

In summary, the proposed parking facilities satisfy the relevant requirements specified in both Council's *DCP 2013* as well as the Australian Standards and it is therefore concluded that the proposed development will not have any unacceptable parking implications.







APPENDIX A

TRAFFIC SURVEY DATA

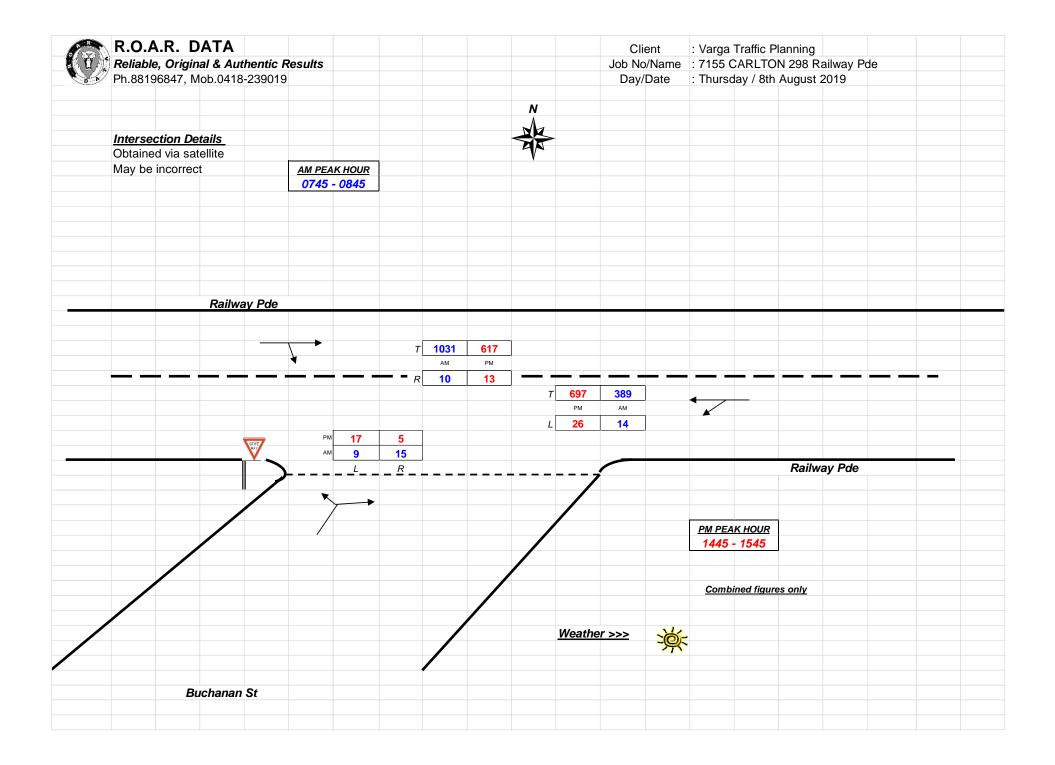
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0630 - 0645	153	1	1	0	0	49	204	0630 - 0645	1	0	0	0	0	1	2	0630 - 0645	154	1	1	0	0	50	206
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0700 - 0715	198	4	0	1	0	51	254	0700 - 0715	0	0	0	0	1	1	2	0700 - 0715	198	4	0	1	1	52	256
0715 - 0730	200	2	2	3	1	64	272	0715 - 0730	1	0	0	0	0	0	1	0715 - 0730	201	2	2	3	1	64	273
0730 - 0745	220	1	0	0	6	109	336	0730 - 0745	1	0	0	0	0	0	1	0730 - 0745	221	1	0	0	6	109	337
0745 - 0800	265	2	2	3	2	68	342	0745 - 0800	0	0	0	0	0	0	0	0745 - 0800	265	2	2	3	2	68	342
0800 - 0815	278	4	2	1	2	92	379	0800 - 0815	0	0	0	0	0	0	0	0800 - 0815	278	4	2	1	2	92	379
0815 - 0830	268	1	2	6	5	103	385	0815 - 0830	0	0	0	0	0	1	1	0815 - 0830	268	1	2	6	5	104	386
0830 - 0845	219	3	3	5	5	125	360	0830 - 0845	1	0	0	0	0	0	1	0830 - 0845	220	3	3	5	5	125	361
0845 - 0900	201	5	2	0	3	104	315	0845 - 0900	0	0	0	0	0	0	0	0845 - 0900	201	5	2	0	3	104	315
0900 - 0915	212	2	3	1	3	107	328	0900 - 0915	2	0	0	0	0	0	2	0900 - 0915	214	2	3	1	3	107	330
0915 - 0930	190	3	2	2	4	88	289	0915 - 0930	0	0	0	0	0	0	0	0915 - 0930	190	3	2	2	4	88	289
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0700 - 0800	883	9	4	7	9	292	1204	0700 - 0800	2	0	0	0	1	1	4	0700 - 0800		9	4	7	10	293	1208
0715 - 0815	963	9	6	7	11	333	1329	0715 - 0815	2	0	0	0	0	0	2	0715 - 0815		9	6	7	11	333	1331
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0800 - 0900	966	13	9	12	15	424	1439	0800 - 0900	1	0	0	0	0	1	2	0800 - 0900	967	13	9	12	15	425	1441
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1430 - 1445	142	1	0	2	6	137	288	1430 - 1445	0	0	0	0	0	0	0	1430 - 1445	142	1	0	2	6	137	288
1445 - 1500	174	2	3	1	4	151	335	1445 - 1500	0	0	0	0	0	0	0	1445 - 1500	174	2	3	1	4	151	335
1500 - 1515	144	5	4	0	4	169	326	1500 - 1515	1	0	0	0	0	0	1	1500 - 1515	145	5	4	0	4	169	327
1515 - 1530	170	5	8	2	9	193	387	1515 - 1530	0	0	0	0	0	0	0	1515 - 1530	170	5	8	2	9	193	387
1530 - 1545	128	1	2	2	9	184	326	1530 - 1545	0	0	0	0	0	0	0	1530 - 1545	128	1	2	2	9	184	326
1545 - 1600	115	3	1	1	6	147	273	1545 - 1600	1	0	0	0	0	0	1	1545 - 1600	116	3	1	1	6	147	274
1600 - 1615	125	3	5	1	1	143	278	1600 - 1615	0	0	0	0	0	1	1	1600 - 1615	125	3	5	1	1	144	279
1615 - 1630	131	3	3	0	4	161	302	1615 - 1630	0	0	0	0	0	0	0	1615 - 1630	131	3	3	0	4	161	302
1630 - 1645	118	0	0	1	5	151	275	1630 - 1645	1	0	0	0	0	2	3	1630 - 1645	119	0	0	1	5	153	278
1645 - 1700	135	1	3	4	5	164	312	1645 - 1700	0	0	0	0	0	0	0	1645 - 1700	135	1	3	4	5	164	312
1700 - 1715	133	4	5	1	5	169	317	1700 - 1715	1	0	0	0	0	0	1	1700 - 1715	134	4	5	1	5	169	318
1715 - 1730	135	1	2	0	2	156	296	1715 - 1730	0	0	0	0	0	0	0	1715 - 1730	135	1	2	0	2	156	296
1730 - 1745	120	1	0	1	14	193	329	1730 - 1745	0	0	0	0	0	0	0	1730 - 1745	120	1	0	1	14	193	329
1745 - 1800	142	0	2	3	3	151	301	1745 - 1800	0	0	0	0	0	0	0	1745 - 1800	142	0	2	3	3	151	301
1800 - 1815	127	3	0	3	8	161	302	1800 - 1815	0	0	0	0	0	0	0	1800 - 1815	127	3	0	3	8	161	302
1815 - 1830	148	4	6	7	6	180	351	1815 - 1830	0	0	0	0	0	0	0	1815 - 1830	148	4	6	7	6	180	351
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1430 - 1530	630	13	15	5	23	650	1336	1430 - 1530	1	0	0	0	0	0	1	1430 - 1530	631	13	15	5	23	650	1337
1445 - 1545	616	13	17	5	26	697	1374	1445 - 1545	1	0	0	0	0	0	1	1445 - 1545	617	13	17	5	26	697	1375
1500 - 1600	557	14	15	5	28	693	1312	1500 - 1600	2	0	0	0	0	0	2	1500 - 1600	559	14	15	5	28	693	1314
1515 - 1615	538	12	16	6	25	667	1264	1515 - 1615	1	0	0	0	0	1	2	1515 - 1615	539	12	16	6	25	668	1266
1530 - 1630	499	10	11	4	20	635	1179	1530 - 1630	1	0	0	0	0	1	2	1530 - 1630	500	10	11	4	20	636	1181
1545 - 1645	489	9	9	3	16	602	1128	1545 - 1645	2	0	0	0	0	3	5	1545 - 1645	491	9	9	3	16	605	1133
1600 - 1700	509	7	11	6	15	619	1167	1600 - 1700	1	0	0	0	0	3	4	1600 - 1700	510	7	11	6	15	622	1171
1615 - 1715	517	8	11	6	19	645	1206	1615 - 1715	2	0	0	0	0	2	4	1615 - 1715	519	8	11	6	19	647	1210
1630 - 1730	521	6	10	6	17	640	1200	1630 - 1730	2	0	0	0	0	2	4	1630 - 1730	523	6	10	6	17	642	1204
1645 - 1745		7	10	6	26	682	1254	1645 - 1745	1	0	0	0	0	0	1	1645 - 1745	524	7	10	6	26	682	1255
1700 - 1800	530	6	9	5	24	669	1243	1700 - 1800	1	0	0	0	0	0	1	1700 - 1800	531	6	9	5	24	669	1244
1715 - 1815	524	5	4	7	24	661	1243	1715 - 1815	0	0	0	0	0	0	0	1715 - 1815	524	5	4	7	24	661	1228
1730 - 1830	537	8	8	14	31	685	1220	1730 - 1830	0	0	0	0	0	0	0	1730 - 1830	537	8	8	14	31	685	1283
.100 1000				17		000		1100 1000	, v	v	, v	v		v		1100 1000	001					000	
PEAK HR	616	13	17	5	26	697	1374	PEAK HR	1	0	0	0	0	0	1	PEAK HR	617	13	17	5	26	697	1375

R			DATA										Client	: Varg	a Traffio	c Plann	ning		
	Reliab	le, Ori	ginal & Aut	hentic R	esults							Job	No/Name	: 7155	5 CARL	TON 29	98 Rail	way P	de
DA	Ph.881	96847	, Mob.0418	-239019								D	ay/Date	: Thur	sday / 8	8th Aug	gust 20	19	
														TOTA	AL VOLU	JMES			
					EAK HOUR				N						OR COU				
				144	45 - 1545					1					PERIOD)			
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									- 1										
												0.000							0.000-
_		D-/-				-		D-/-				2224	2228	>	•				2220
<u></u> 1	ailway l 629	- ae 630					Railway 1 621				Rai	lway P	de				Rai	lway l	ae
1	629	630.					1 621	022 _	→		2657	2654	3				2704	2701	2
	1	616	617 ——			<u> 6</u> 97	697	0		-	_ 2037	2004	3				2704	2701	3
	1	010	017				037	0											
														A					
	0	13	13 —		DA	<u>-2</u> 6	26	0											
				•	↓									73					
-	-714	714	0			•	723	723 0							0				
														73					
				17	5										128				
				17	5									0					
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					0										∥ ↓				
				22	39														
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A REAL	R.O.A.R.	DATA								Client	: Varg	a Traffic Pla	nning	
	Reliable, Or	iginal & Auth	entic Results						Job	No/Name	: 7155	CARLTON	298 Railway P	'de
		7, Mob.0418-2							D	ay/Date		sday / 8th A		
				PM	PEAK HR									
				14	45 - 1545									
PEDS					PEDS									
	WEST	SOUTH	EAST			WEST	SOUTH	EAST	1					
Time Per	Railway Pde	Buchanan St	Railway Pde	тот	Peak Per	Railway Pde	Buchanan St	Railway Pde	тот					
1430 - 1445	1	10	0	11	1430 - 1530	13	40	1	54					
1445 - 1500	6	11	1	18	1445 - 1545	13	41	1	55					
1500 - 1515	5	14	0	19	1500 - 1600	15	106	1	122					
1515 - 1530	1	5	0	6	1515 - 1615	14	109	1	124					
1530 - 1545	1	11	0	12	1530 - 1630	18	124	1	143					
1545 - 1600	4	18	0	22	1545 - 1645	17	122	1	140					
1600 - 1615	0	12	0	12	1600 - 1700	16	126	2	144					
1615 - 1630	0	16	0	16	1615 - 1715	24	132	2	158					
1630 - 1645	3	15	1	19	1630 - 1730	26	128	2	156					
1645 - 1700	1	15	0	16	1645 - 1745	10	61	0	71					
1700 - 1715	4	17	0	21	1700 - 1800	12	68	1	81					
1715 - 1730	5	20	0	25	1715 - 1815	16	69	1	86					
1730 - 1745	0	9	0	9	1730 - 1830	13	61	1	75					
1745 - 1800	3	22	1	26										
1800 - 1815	8	18	0	26										
1815 - 1830	2	12	0	14										
Per End	44	225	3	272	PEAK HR	13	41	1	55					



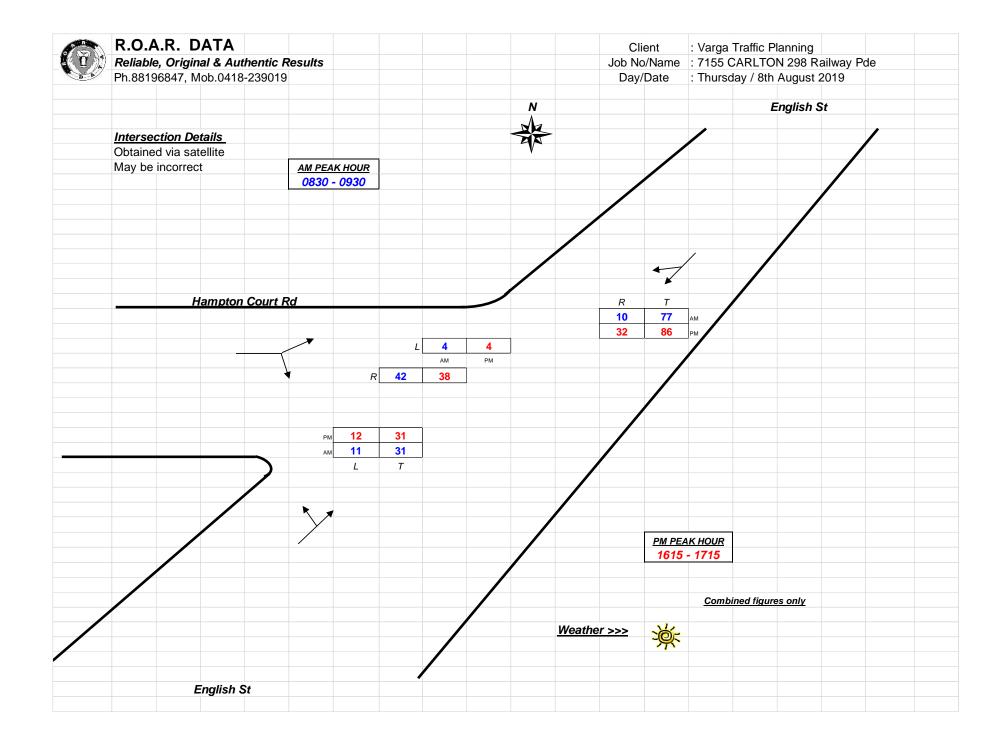
P P	R.O.	.A.R.	DA	ТА																			
	Relial	ble, Or	iginal	& Auth	entic l	Result	s	PEDS	NO	RTH	W	EST	SO	UTH		PEDS	NO	RTH	W	EST	SOL	лн	
P D A	Ph.881	96847,	Mobile.	.041823	9019			Time Per	Engl	ish St	Hamp	oton Ct	Engli	ish St	тот	Peak Per	Engli	ish St	Hamp	ton Ct	Englis	sh St	тот
								0630 - 0645		0		2		1	3	0630 - 0730		5	1	6	7		28
								0645 - 0700		1		9		3	13	0645 - 0745		9		7	8		34
Client				Plannir				0700 - 0715		3		4		3	10	0700 - 0800	1	5	1	0	5		30
Job No/Na				ON 298		•		0715 - 0730		1		1	(0	2	0715 - 0815	1	6	1	0	5		31
Day/Da	te	: Thurs	sday / 8	th Augu	st 2019)		0730 - 0745		4		3	2	2	9	0730 - 0830	2	21	1	4	7		42
								0745 - 0800		7		2		0	9	0745 - 0845		9		4	7		40
								0800 - 0815		4		4		3	11	0800 - 0900		3		2	7		32
								0815 - 0830		6		5		2	13	0815 - 0915		2		0	5		27
								0830 - 0845		2		3		2	7	0830 - 0930		7		9	5		21
								0845 - 0900		1		0		0	1			7		0	5		- 24
								0900 - 0915		3 1		2		•	6	PEAK HR		/		9	5		21
								0915 - 0930 Per End		3 3		4 39		2 9	7 91								
								Fei Liiu		5		59	1	9	91								
Lights	NO	RTH		EST	SO	UTH		Heavies	NO	RTH	W	EST	SO	UTH		Combined	NO	RTH		EST	SOL	лн	
	Engli	ish St	патр	non Cl 2d	Engli	ish St			Engl	ish St	namp	non Ci 2d	Engli	ish St			Engli	ish St	namp	ion Ci Pd	Englis	sh St	
Time Per	Ţ	<u>R</u>	L	<u>R</u>	L	<u>T</u>	тот	Time Per	Ι	<u>R</u>	L	<u>R</u>	L	<u>T</u>	тот	Time Per	T	<u>R</u>	L	<u>R</u>	L	Ţ	тот
0630 - 0645	15	0	0	4	0	0	19	0630 - 0645	0	0	0	0	0	0	0	0630 - 0645	15	0	0	4	0	0	19
0645 - 0700	14	5	0	6	1	3	29	0645 - 0700	1	0	0	0	0	0	1	0645 - 0700	15	5	0	6	1	3	30
0700 - 0715	13	2	1	7	0	5	28	0700 - 0715	0	0	0	1	0	1	2	0700 - 0715	13	2	1	8	0	6	30
0715 - 0730	4	0	1	4	0	3	12	0715 - 0730	0	0	0	0	0	0	0	0715 - 0730	4	0	1	4	0	3	12
0730 - 0745	14	0	1	9	1	5	30	0730 - 0745	0	0	0	0	0	0	0	0730 - 0745	14	0	1	9	1	5	30
0745 - 0800	17	3	2	9	2	5	38	0745 - 0800	0	0	0	0	0	0	0	0745 - 0800	17	3	2	9	2	5	38
0800 - 0815	15	1	0	12 12	4	8 8	40 42	0800 - 0815	0	0	0	0	0	0	0	0800 - 0815 0815 - 0830	15	1	0	12	4	8	40
0815 - 0830 0830 - 0845	15 17	3	2	8	 1	8	42 36	0815 - 0830 0830 - 0845	0	0	0	0	0	0	0	0815 - 0830 0830 - 0845	15 17	3	2 0	12 8	2	8 8	42 36
0845 - 0900	21	5	1	13	4	11	55	0845 - 0900	0	0	0	0	0	0	0	0845 - 0900	21	5	1	13	4	11	55
0900 - 0915	19	2	1	10	3	4	40	0900 - 0915	0	0	0	0	0	0	0	0900 - 0915	19	2	1	10	3	4	40
0915 - 0930	20	1	2	10	3	8	44	0915 - 0930	0	0	0	0	0	0	0	0915 - 0930	20	1	2	10	3	8	44
Per End	184	24	11	105	21	68	413	Per End	1	0	0	1	0	1	3	Per End	185	24	11	106	21	69	416
Lights	NO	RTH	w	EST	SO	UTH	1	Heavies	NO	RTH	w	EST	SO	UTH		Combined	NO	RTH	w	EST	SOL	пн	1
		ish St		non cr		ish St		nouriou		ish St				ish St		<u>oomsiiou</u>		ish St			Englis		
Peak Per	T	R	L	R	L	т	тот	Peak Per	T	R	L	R	L	т	тот	Peak Per	Т	R	L	R	L	т	тот
0630 - 0730	46	7	2	21	1	11	88	0630 - 0730	1	0	0	1	0	1	3	0630 - 0730	47	7	2	22	1	12	91
0645 - 0745	45	7	3	26	2	16	99	0645 - 0745	1	0	0	1	0	1	3	0645 - 0745	46	7	3	27	2	17	102
0700 - 0800	48	5	5	29	3	18	108	0700 - 0800	0	0	0	1	0	1	2	0700 - 0800	48	5	5	30	3	19	110
0715 - 0815	50	4	4	34	7	21	120	0715 - 0815	0	0	0	0	0	0	0	0715 - 0815	50	4	4	34	7	21	120
0730 - 0830	61	7	5	42	9	26	150	0730 - 0830	0	0	0	0	0	0	0	0730 - 0830	61	7	5	42	9	26	150
0745 - 0845	64	9	4	41	9	29	156	0745 - 0845	0	0	0	0	0	0	0	0745 - 0845	64	9	4	41	9	29	156
0800 - 0900	68	11	3	45	11	35	173	0800 - 0900	0	0	0	0	0	0	0	0800 - 0900	68	11	3	45	11	35	173
0815 - 0915	72	12	4	44	10	31	173	0815 - 0915	0	0	0	0	0	0	0	0815 - 0915	72	12	4	44	10	31	173
0830 - 0930	77	10	4	42	11	31	175	0830 - 0930	0	0	0	0	0	0	0	0830 - 0930	77	10	4	42	11	31	175
PEAK HR	77	10	4	42	11	31	175	PEAK HR	0	0	0	0	0	0	0	PEAK HR	77	10	4	42	11	31	175

	R.O.																	lient		ja Traffi			
	Reliab	le, Ori	ginal 8	& Authe	entic F	Result	ts											lo/Name				98 Railway	Pde
DA	Ph.881	96847	, Mob.	0418-2	39019)											Da	y/Date	: Thur	sday /	8th Au	gust 2019	
										1		2		3									
										4		5		6									
																		то	TAL VOL	UMES			
										7		8		9				1	FOR COL	JNT			
	AM P	EAK																	PERIO	D			
	0830 -	0930											Ν										
												-	2A										
							Engl	ish St					V								Engli	sh St	
																						_	
									0												A		
						T			87														
						35			87												80		
						35	0	0	+													1	
						0	10	77	_												79		
							10	77														208	
Han	npton (Ct Rd																			1		
	0	46	46 -			•		•														209	
		0	4	4			R									1		116	117				
							i T	4							Ham	pton C	t Rd					•	
							D				-												
		0	42	42		I		≜				•		45		45	0				T I		
•	21	21	0			< →	-														90		
								31														2	
							11	31													89		
						Î	11	0														289	
						42	0		0												1		
						42			119													291	
						0			119														
																						•	
																	-						
							Engl	ish St													Engli	sh St	

A B B B B B B B B B B B B B B B B B B B	R.O.	A.R.	DA	ТА												Client	: Varg	ja Traffi	c Planr	ning			
	Reliat	ole, Ori	iginal d	& Authe	entic R	Results	;								Job	No/Name	: 7155	5 CARL	TON 2	98 Rail	way Po	de	
			-	.0418-2												ay/Date		sday /					
A C	111.00	1500+7	, 1000	.0410 2	.00010											ayrbaic	. mar	Sudy /		Juot 20			
										DTU									14/5				
<u>Lights</u>		RTH		EST		UTH		<u>Heavies</u>		RTH		EST		UTH		Combined		RTH	WE			UTH	
	Engli -		натр	ton Ct	Engli	ish St	TOT	T ' D		ish St	Натр	oton Ct	Engli	ish St	TOT	-	_	ish St	Hamp		Engli	ish St	TOT
Time Per	<u> </u>	<u>R</u>	<u> </u>	<u>R</u>		<u> </u>	тот	Time Per	<u>T</u>	<u>R</u>		<u>R</u>	<u> </u>	<u>T</u>	тот	Time Per	<u><u>T</u></u>	<u>R</u>		<u>R</u>	<u> </u>	T	TOT
1430 - 1445	15	1	1	10	1	10	38	1430 - 1445	0	0	0	0	0	0	0	1430 - 1445	15	1	1	10	1	10	38
1445 - 1500	28	8	0	10	1	6	53	1445 - 1500	0	0	0	0	0	0	0	1445 - 1500	28	8	0	10	1	6	53
1500 - 1515	15	6	0	6	3	7	37	1500 - 1515	0	0	0	0	0	0	0	1500 - 1515	15	6	0	6	3	7	37
1515 - 1530	14	6	0	6	2	5	33	1515 - 1530	0	0	0	0	0	0	0	1515 - 1530	14	6	0	6	2	5	33
1530 - 1545	20	4	0	4	5	3	36	1530 - 1545	0	0	0	0	0	0	0	1530 - 1545	20	4	0	4	5	3	36
1545 - 1600	19	5	0	5	0	6	35	1545 - 1600	0	0	0	0	0	0	0	1545 - 1600	19	5	0	5	0	6	35
1600 - 1615	24	7	1	6	3	10	51	1600 - 1615	0	0	0	0	0	0	0	1600 - 1615	24	7	1	6	3	10	51
1615 - 1630	23	8	0	5	3	8	47	1615 - 1630	0	0	0	0	0	0	0	1615 - 1630	23	8	0	5	3	8	47
1630 - 1645	22	3	0	7	2	9	43	1630 - 1645	0	0	0	0	0	0	0	1630 - 1645	22	3	0	7	2	9	43
1645 - 1700	19	10	1	14	5	5	54	1645 - 1700	0	0	0	0	0	0	0	1645 - 1700	19	10	1	14	5	5	54
1700 - 1715	22	11	3	12	2	9	59	1700 - 1715	0	0	0	0	0	0	0	1700 - 1715	22	11	3	12	2	9	59
1715 - 1730	27	2	0	6	3	3	41	1715 - 1730	0	0	0	0	0	0	0	1715 - 1730	27	2	0	6	3	3	41
1730 - 1745	21	6	2	4	3	8	44	1730 - 1745	0	0	0	0	0	0	0	1730 - 1745	21	6	2	4	3	8	44
1745 - 1800	22	7	4	1	2	6	42	1745 - 1800	0	0	0	0	0	0	0	1745 - 1800	22	7	4	1	2	6	42
1800 - 1815	16	6	0	16	3	6	47	1800 - 1815	0	0	0	0	0	0	0	1800 - 1815	16	6	0	16	3	6	47
1815 - 1830	10	8	1	2	1	5	31	1815 - 1830	0	0	0	0	0	0	0	1815 - 1830	14	8	1	2	1	5	31
Per End	321	98	13	114	39	106	691	Per End	0	0	0	0	0	0	0	Per End	321	98	13	114	39	106	691
Гегспа	521	30	15	114	33	100	031	i ei Liid	0	U	U	U	U	U	U	Ter Lind	521	30	15	114	- 39	100	031
Lights	NO	отц	\ M /	EST	501	UTH		Heavies	NO	RTH	\A/I	EST	50	UTH		Combined	NO	RTH	W/E	ST	501	UTH	7
LIGHTS	Engli			ton Ct		ish St		neavies		ish St		ton Ct		ish St		Compined		ish St	Hamp			ish St	
Peak Per	Eligii T	8// 3/ R	патъ	R	Liigii	T	тот	Peak Per	T	R	паттр	R	Liigii	5// 3(T	тот	Peak Per	T	R	паттр	R		<i>зи з</i> г Т	тот
1430 - 1530	<u> </u>	21	1	32	7	28	161	1430 - 1530	0	0	0	0	0	0	0	1430 - 1530	72	21	1	32	<u> </u>	28	161
1445 - 1545	77	24	0	26	11	20	159	1445 - 1545	0	0	0	0	0	0	0	1445 - 1545	77	24	0	26	, 11	20	159
1500 - 1600	68	24	0	20	10	21	139	1500 - 1600	0	0	0	0	0	0	0	1500 - 1600	68	24	0	20	10	21	141
	77	21	1	21	-	24		1515 - 1615	0	0	0	0	0	0	0		77	21	1	21	10	21	
1515 - 1615					10		155		-	-	-	-	-	-	-	1515 - 1615			-		-		155
1530 - 1630	86	24	1	20	11	27	169	1530 - 1630	0	0	0	0	0	0	0	1530 - 1630	86	24	1	20	11	27	169
1545 - 1645	88	23	1	23	8	33	176	1545 - 1645	0	0	0	0	0	0	0	1545 - 1645	88	23	1	23	8	33	176
1600 - 1700		28	2	32	13	32	195	1600 - 1700	0	0	0	0	0	0	0	1600 - 1700		28	2	32	13	32	195
1615 - 1715	86	32	4	38	12	31	203	1615 - 1715	0	0	0	0	0	0	0	1615 - 1715		32	4	38	12	31	203
1630 - 1730	90	26	4	39	12	26	197	1630 - 1730	0	0	0	0	0	0	0	1630 - 1730		26	4	39	12	26	197
1645 - 1745	89	29	6	36	13	25	198	1645 - 1745	0	0	0	0	0	0	0	1645 - 1745		29	6	36	13	25	198
1700 - 1800	92	26	9	23	10	26	186	1700 - 1800	0	0	0	0	0	0	0	1700 - 1800	92	26	9	23	10	26	186
1715 - 1815	86	21	6	27	11	23	174	1715 - 1815	0	0	0	0	0	0	0	1715 - 1815	86	21	6	27	11	23	174
1730 - 1830	73	27	7	23	9	25	164	1730 - 1830	0	0	0	0	0	0	0	1730 - 1830	73	27	7	23	9	25	164

			DAT											Client		a Traffic Plan		
	Reliab	le, Ori	ginal &	Authent	ic Resu	lts								No/Name		CARLTON 2		
A	Ph.881	96847	, Fax 88	3196849,	Mob.04	418-23	39019)					Da	y/Date	: Thur	sday / 8th Au	gust 20)19
																L VOLUMES		
																DR COUNT		
	<u>PM PI</u>															PERIOD		
	161	5 - 17	15							N								
											>							
						Er	nglish	h St		V							Engli	sh St
					▲				0									
									118								1	
					35				118								119	0
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					0	32		86									119	110
11-		24 D-J				32	2	86									0	419
па	mpton (42	42 -					+									0	419
	0	42	42 -	4 -				•					0	127	107			419
		0	4	4								Hom	oton Ct		127			•
						Ę						паш		RU			_	, v
		0	38	38 -								(137	137	0			
	44 4		0	50	•	← .							107	107	U		145	
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						12		0										435
					43	0		•	0						_		0	
					43	-			124		_						-	435
					0				124									
																		♥
									•									
						Fr	nglish	h St									Engli	ch St

P-R	R.O.A.R.	DATA								Client	: Varga	a Traffic Planning	
	Reliable, Or	iginal & Autho	entic Results	;					Job	No/Name	: 7155	CARLTON 298 Railv	vay Pde
D A A		7, Mob.0418-2								ay/Date		day / 8th August 201	-
				<u>PM</u>	PEAK HR								
				16	15 - 1715								
PEDS					PEDS								
	NORTH	WEST	SOUTH]		NORTH	WEST	SOUTH					
Time Per	English St	Hampton Ct	English St	тот	Peak Per	English St	Hampton Ct	English St	тот				
1430 - 1445	1	0	2	3	1430 - 1530	1	6	3	10				
1445 - 1500	0	3	1	4	1445 - 1545	2	11	2	15				
1500 - 1515	0	1	0	1	1500 - 1600	8	20	6	34				
1515 - 1530	0	2	0	2	1515 - 1615	13	22	8	43				
1530 - 1545	2	5	1	8	1530 - 1630	16	24	10	50				
1545 - 1600	2	3	0	5	1545 - 1645	15	24	11	50				
600 - 1615	3	3	1	7	1600 - 1700	16	25	11	52				
1615 - 1630	0	1	3	4	1615 - 1715	13	25	11	49				
630 - 1645	1	3	1	5	1630 - 1730	15	26	8	49				
645 - 1700	0	2	0	2	1645 - 1745	9	14	6	29				
700 - 1715	5	3	2	10	1700 - 1800	12	16	6	34				
1715 - 1730	3	4	2	9	1715 - 1815	7	16	5	28				
1730 - 1745	1	5	2	8	1730 - 1830	6	14	3	23				
745 - 1800	3	4	0	7									
1800 - 1815	0	3	1	4									
1815 - 1830	2	2	0	4									
Per End	23	44	16	83	PEAK HR	13	25	11	49				



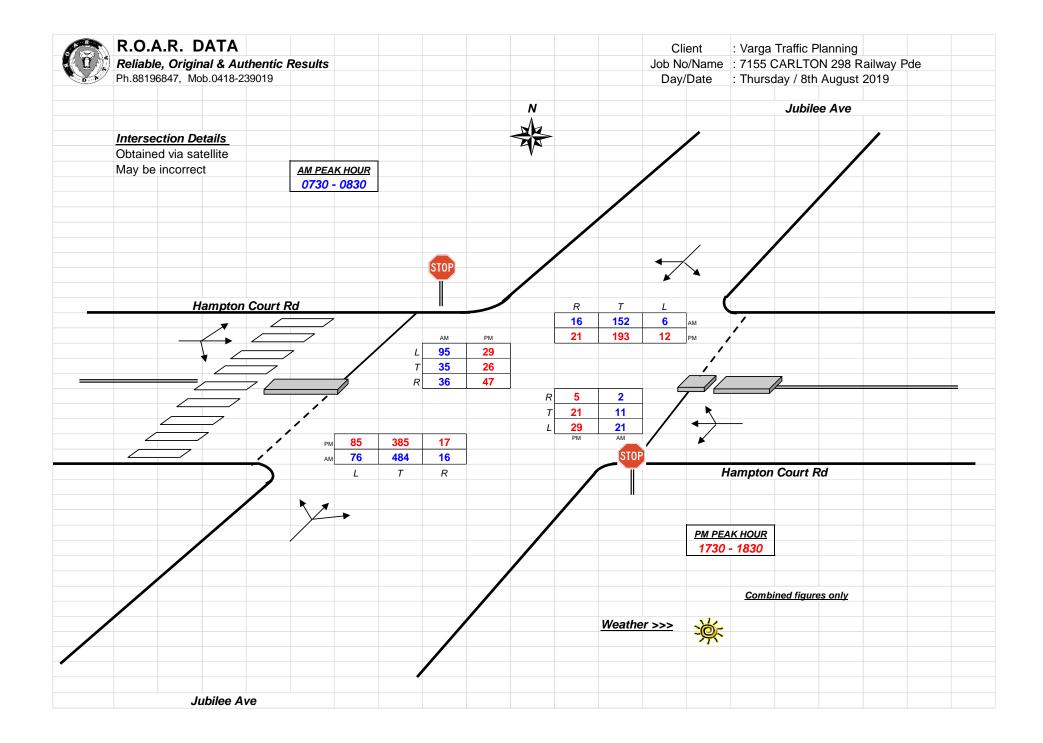
	Relia	A.R	rigina	al & Ai	uthen	tic Re	sults							Client Job No/Na		: Varga : 7155	CARL	TON 2	98 Rai		de						
	Ph.881	96847,		18-239										Day/Dat	е	: Thur		8th Au	•								
<u>Lights</u>		NORTH			WEST			SOUTH			EAST			Lights		NORTH			WEST		<u> </u>	SOUTH			EAST		
	J	ıbilee A	-	Han	npton C		Ju	bilee A		Ham	pton C				J	ubilee A		Han	npton C		Ju	ibilee A		Han	npton C		
Time Per	L	<u><u> </u></u>	<u>R</u>		<u>T</u>	<u>R</u>	<u> </u>	<u>I</u>	<u>R</u>	L	<u> </u>	<u>R</u>	TOT	Peak Time	<u> </u>	<u>T</u>	<u>R</u>	L	I	<u>R</u>		T	<u>R</u>	L	<u><u> </u></u>	<u>R</u>	TOT
0630 - 0645	0	35	0	7	4	6	4	43	0	1	0	0	100	0630 - 0730	1	145	7	44	18	26	42	272	5	8	6	4	578
0645 - 0700	0	28	4	6	5	5	10	65	2	3	1	2	131	0645 - 0745	3	157	11	51	21	28	55	307	7	11	9	4	664
0700 - 0715	0	33	1	14	2	7	14	77	0	3	4	2	157	0700 - 0800	4	161	13	68	27	36	64	376	9	15	9	2	784
0715 - 0730	1	49	2	17	7	8	14	87	3	1	1	0	190	0715 - 0815	5	149	15	78	32	33	67	416	10	14	6	1	826
0730 - 0745	2	47	4	14	7	8	17	78	2	4	3	0	186	0730 - 0830	6	152	16	95	35	36	76	484	16	21	11	2	950
0745 - 0800	1	32	6	23	11	13	19	134	4	7	1	0	251	0745 - 0845	5	139	15	91	33	34	66	467	19	24	9	2	904
0800 - 0815	1	21	3	24	7	4	17	117	1	2	1	1	199	0800 - 0900	7	160	14	87	32	36	59	424	20	22	15	5	881
0815 - 0830	2	52	3	34	10	11	23	155	9	8	6	1	314	0815 - 0915	12	189	13	86	33	46	56	381	24	27	17	5	889
0830 - 0845	1	34	3	10	5	6	7	61	5	7	1	0	140	0830 - 0930	13	186	13	62	30	44	43	303	20	27	17	4	762
0845 - 0900	3	53	5	19	10	15	12	91	5	5	7	3	228		•	450	10	0.5	05			40.4	40			•	050
0900 - 0915	6	50	2	23	8	14	14	74	5	7	3	1	207	PEAK HOUR	6	152	16	95	35	36	76	484	16	21	11	2	950
0915 - 0930	3	49	3	10	7	9	10	77	5	8	6	0	187														
Period End	20	483	36	201	83	106	161	1059	41	56	34	10	2290														
Heavies		NORTH	1		WEST			SOUTH			EAST			Heavies		NORTH			WEST			SOUTH	1		EAST		
1001100	.1	ibilee A		Han	npton C	t Rd		bilee A		Ham	pton C	t Rd		11001100	.1	ubilee A		Han	npton C		.//	ubilee A		Han	npton C	t Rd	
Time Per	1	Т	R	1	<u>т</u>	R	1	т	R	I	т	R	тот	Peak Per	1	Т	R	1	т Т	R	1	Т	R	1	Т	R	тот
0630 - 0645	0	0	0	0	0	0	0	0	0	0	0	0	0	0630 - 0730	0	0	0	0	0	0	0	1	0	0	0	0	1
0645 - 0700	0	0	0	0	0	0	0	0	0	0	0	0	0	0645 - 0745	0	0	0	0	0	0	0	1	0	0	0	0	1
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0	0700 - 0800	0	0	0	0	0	0	0	1	0	0	0	0	1
0715 - 0730	0	0	0	0	0	0	0	1	0	0	0	0	1	0715 - 0815	0	0	0	0	0	0	0	1	0	0	0	0	1
0730 - 0745	0	0	0	0	0	0	0	0	0	0	0	0	0	0730 - 0830	0	0	0	0	0	0	0	0	0	0	0	0	0
0745 - 0800	0	0	0	0	0	0	0	0	0	0	0	0	0	0745 - 0845	0	0	0	0	0	0	0	0	0	0	0	0	0
0800 - 0815	0	0	0	0	0	0	0	0	0	0	0	0	0	0800 - 0900	0	0	0	0	0	0	0	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0	0	0	0	0	0	0	0	0815 - 0915	0	1	0	0	0	0	0	0	0	0	0	0	1
0830 - 0845	0	0	0	0	0	0	0	0	0	0	0	0	0	0830 - 0930	0	1	0	0	0	0	0	0	0	0	0	0	1
0845 - 0900	0	0	0	0	0	0	0	0	0	0	0	0	0	0000 0000				Ŭ			Ű	, ,		Ű	Ů	Ŭ	· · ·
0900 - 0915	0	1	0	0	0	0	0	0	0	0	0	0	1	PEAK HOUR	0	0	0	0	0	0	0	0	0	0	0	0	0
0915 - 0930	0	0	0	0	0	0	0	0	0	0	0	0	0		-		-	-	-	-	-	-	-	-			-
Period End	0	1	0	0	0	0	0	1	0	0	0	0	2														
	-	-		-		-	-	_	-		-	-															-
Combined		NORTH			WEST			SOUTH			EAST			Combined		NORTH			WEST	•		SOUTH	1		EAST		
	Ju	ibilee A	ve	Han	npton C	t Rd	Ju	bilee A	ve	Ham	pton C	t Rd			Jı	ubilee A	ve	Han	pton C	Ct Rd	Ju	ibilee A	ve	Han	npton C	t Rd	
Time Per	L	<u>T</u>	<u>R</u>	L	<u>T</u>	<u>R</u>	L	<u>T</u>	<u>R</u>	L	<u>T</u>	<u>R</u>	TOT	Peak Per	L	<u>T</u>	<u>R</u>	L	T	<u>R</u>	L	<u>T</u>	<u>R</u>	L	<u>T</u>	<u>R</u>	TOT
0630 - 0645	0	35	0	7	4	6	4	43	0	1	0	0	100	0630 - 0730	1	145	7	44	18	26	42	273	5	8	6	4	579
0645 - 0700	0	28	4	6	5	5	10	65	2	3	1	2	131	0645 - 0745	3	157	11	51	21	28	55	308	7	11	9	4	665
0700 - 0715	0	33	1	14	2	7	14	77	0	3	4	2	157	0700 - 0800	4	161	13	68	27	36	64	377	9	15	9	2	785
0715 - 0730	1	49	2	17	7	8	14	88	3	1	1	0	191	0715 - 0815	5	149	15	78	32	33	67	417	10	14	6	1	827
0730 - 0745	2	47	4	14	7	8	17	78	2	4	3	0	186	0730 - 0830	6	152	16	95	35	36	76	484	16	21	11	2	950
0745 - 0800	1	32	6	23	11	13	19	134	4	7	1	0	251	0745 - 0845	5	139	15	91	33	34	66	467	19	24	9	2	904
0800 - 0815	1	21	3	23	7	4	17	117	1	2	1	1	199	0800 - 0900	7	160	14	87	32	36	59	407	20	24	15	5	881
					-							1															
0815 - 0830	2	52	3	34	10	11	23	155	9	8	6		314	0815 - 0915	12	190	13	86	33	46	56	381	24	27	17	5	890
0830 - 0845	1	34	3	10	5	6	7	61	5	7	1	0	140	0830 - 0930	13	187	13	62	30	44	43	303	20	27	17	4	763
0845 - 0900	3	53	5	19	10	15	12	91	5	5	7	3	228	BRAK		4.5.5	4.5		a -								
0900 - 0915	6	51	2	23	8	14	14	74	5	7	3	1	208	PEAK HOUR	6	152	16	95	35	36	76	484	16	21	11	2	950
0915 - 0930	3	49	3	10	7	9	10	77	5	8	6	0	187														
Period End	20	484	36	201	83	106	161	1060	41	56	34	10	2292														

	R.O.A.R D	АТА																
	Reliable, Origina	al & Authentic Re	esults							Ju	bilee A	ve						
DA	Ph.88196847, Mob	.0418-239019																
<u> </u>									_ ♠									
Client	: Varga Traff								F 01									
Job No/Na		TON 298 Railway P	de				AM P		581 581	0	0	0	0					
Day/Date	e . mursuay /	8th August 2019				-		<u>0830</u>	0	16	152	6	174					_
							// 30 -	0030	0	16	152	6	174					
										10	102	I						_
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										◄┘	+	 →		Ha	ampto	n Ct F	Rd	
						0 1	166	166							0			7→
						0	95	95 —						2	2	2	0	
												•						
Peds	NORTH	WEST	SOUTH	EAST		0	35	35 —	►			/		• ·	11	11	0	
	Jubilee Ave	Hampton Ct Rd	Jubilee Ave	Hampton Ct Rd							A C							
Time Per	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	TOT	0	36	36	-↓						21	21	0	
0630 - 0645	0	3	0	2			03			◀					<u> </u>	34	34	0
0645 - 0700	0	18	3	1	22	Hampt	on C	t Rd										
0700 - 0715	1	12	0	4	17						1							
0715 - 0730	0	17	0	4	21					76	484	16	•					
0730 - 0745	0	23	0	6	29				576	76	484	16	0					
0745 - 0800	1	20	1	16	38				576	0	0	0	209					_
0800 - 0815 0815 - 0830	2 3	23 20	0	9 6	34 30				0				209					_
0815 - 0830 0830 - 0845	0	18	1 0	<u> </u>	25								•					
0845 - 0900	0	45	1	29	75						bilee A	ve						
0900 - 0915	2	41	1	11	55	TOTAL				00								
0915 - 0930	1	15	0	20	36	VOLUMES	;			Ju	bilee A	ve				N		
Period End	10	255	7	115	387	FOR COUN												
						PERIOD				T		1			<		>	
Peds	NORTH	WEST	SOUTH	EAST						1271		539				W		
	Jubilee Ave	Hampton Ct Rd	Jubilee Ave	Hampton Ct Rd						1270		540						
Peak Per	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	TOT					1								
0630 - 0730	1	50	3	11	65							¥						
0645 - 0745	1	70	3	15	89													
0700 - 0800	2	72	1	30	105			0 39	390				0	144	144			
0715 - 0815	3	83	1	35	122										_		-	_
0730 - 0830	6	86	2	37	131			ampton Ct						amptor		d		
0745 - 0845	6	81	2	38	127	•	-	231 231	0			←	100	100 ()			
0800 - 0900	5	106	2	51	164													
0815 - 0915	5	124	3	53	185					1000		4						_
0830 - 0930	3	119	2	67	191					1262		1						
PEAK HR	6	86	2	37	131					1261 1		645 646						
	0	00		51	131					1								
												4						_
											111	•						

A CONTRACT	R.O.A.R. DATA Reliable, Original & Authentic															Client		: Varg	a Tra	ffic Pla	anning	3					
	Relia	ble, Ol	rigina	l & At	uthen	tic Re	sults								Job	No/Na	ame	: 715	5 CAR		1298	Railwa	ay Pde)			
DA		, 819684	-													ay/Dat						t 2019	•				
					WEOT						FAOT														FLOT		
<u>Lights</u>		NORTH			WEST pton C			SOUTH bilee A		Ham	EAST pton (Y Dd		<u>Lights</u>		NORTH bilee A			WEST pton C			SOUTH bilee A		Ham	EAST pton (`+ ₽ ₼	
Time Per	1	т Т	R	I	<i>ріоп</i> с т	R	Ju		R	L	<i>ріоп</i> с	R	тот	Peak Per	1	T	R	I	<u>рюл с</u> т	R	1	Т	R	I	Т	R	тот
1430 - 1445	3	36	2	3	<u> </u>	5	2	75	0	4	3	1	144	1430 - 1530	3	36	2	3	<u> </u>	5	2	75	0	4	3	1	144
445 - 1500	0	37	3	8	7	8	12	77	2	4	5	1	164	1445 - 1545	9	121	7	23	20	25	53	364	17	34	29	5	707
1500 - 1515	2	29	1	3	5	5	12	91	7	8	11	0	174	1500 - 1600	11	113	8	22	15	22	57	373	15	39	29	5	709
1515 - 1530	5	23	1	9	3	7	10	108	3	11	8	2	190	1515 - 1615	10	123	10	26	15	19	55	371	14	36	22	5	706
1530 - 1545	2	32	2	3	5	5	19	88	5	11	5	2	179	1530 - 1630	10	136	16	23	15	19	51	355	14	35	21	4	699
1545 - 1600	2	29	4	7	2	5	16	86	0	9	5	1	166	1545 - 1645	13	149	17	22	10	22	37	353	14	35	21	3	696
1600 - 1615	1	39	3	7	5	2	10	89	6	5	4	0	171	1600 - 1700	17	161	16	20	17	22	26	342	17	35	23	9	705
1615 - 1630	5	36	7	6	3	7	6	92	3	10	7	1	183	1615 - 1715	19	177	16	24	21	25	19	331	16	44	30	11	733
1630 - 1645	5	45	3	2	0	8	5	86	5	11	5	1	176	1630 - 1730	15	175	15	25	21	29	27	338	16	37	26	13	737
1645 - 1700	6	41	3	5	9	5	5	75	3	9	7	7	175	1645 - 1745	11	175	20	29	24	35	45	347	16	32	32	13	779
1700 - 1715	3	55	3	11	9	5	3	78	5	14	. 11	2	199	1700 - 1800	10	175	22	31	17	34	59	377	18	26	28	8	805
1715 - 1730	1	34	6	7	3	11	14	99	3	3	3	3	187	1715 - 1815	8	166	22	25	27	44	74	389	15	21	22	8	821
1730 - 1745	1	45	8	6	3	14	23	95	5	6	11	1	218	1730 - 1830	12	193	21	29	26	47	85	385	17	29	21	5	870
1745 - 1800	5	41	5	7	2	4	19	105	5	3	3	2	201														
1800 - 1815	1	46	3	5	19	15	18	90	2	9	5	2	215	PEAK HOUR	12	193	21	29	26	47	85	385	17	29	21	5	870
1815 - 1830	5	61	5	11	2	14	25	95	5	11	2	0	236														
Period End	47	629	59	100	87	120	199	1429	59	128	95	26	2978														
																	_										
<u>Heavies</u>		NORTH			WEST			SOUTH			EAST			Heavies		NORTH			WEST			SOUTH			EAST		
						Jt Ra	JU	bilee A								-								11			
	Ju	bilee A	ve	Ham						-	pton C				Ju	bilee A		Ham	pton C		Ju	bilee A		Ham	pton C		
Time Per	Ju L	bilee A <u>T</u>	ve <u>R</u>	Ŀ	<u>T</u>	<u>R</u>	<u>L</u>	Ţ	<u>R</u>	Ŀ	I	<u>R</u>	тот	Peak Per	Ju L	bilee A <u>T</u>	<u>R</u>	Ŀ	<u>T</u>	<u>R</u>	L	Ţ	<u>R</u>	Ŀ	Ţ	<u>R</u>	тот
1430 - 1445	Ju <u>L</u> 0	bilee A <u>T</u> <u>0</u>	ve <u>R</u> <u>0</u>	<u>L</u> 0	<u>T</u> 0	<u>R</u> 0	<u>L</u> 0	<u>T</u> 0	<u>R</u> 0	<u>L</u> 0	<u>T</u> 0	<u>R</u> 0	0	Peak Per 1430 - 1530	Ju <u>L</u> 0	bilee A <u>T</u> 0	<u>R</u> 0	<u>L</u> 0	<u>T</u> 0	<u>R</u> 0	<u>L</u> 0	<u>T</u> 0	<u>R</u> 0	<u>L</u> 0	<u>T</u> 0	<u>R</u> 0	0
1430 - 1445 1445 - 1500	Ju <u>L</u> 0 0	bilee A <u>T</u> <u>0</u> 0	ve <u>R</u> 0 0	<u>L</u> 0 0	<u>T</u> <u>0</u> <u>0</u>	<u>R</u> 0 0	<u>L</u> 0 0	<u>T</u> <u>0</u> <u>0</u>	<u>R</u> 0 0	<u>L</u> 0 0	<u>T</u> <u>0</u> <u>0</u>	<u>R</u> 0 0	0	Peak Per 1430 - 1530 1445 - 1545	Ju <u>L</u> 0	bilee A <u>T</u> 0 0	<u>R</u> 0 0	<u>L</u> 0 0	<u>T</u> 0 0	<u>R</u> 0 0	<u>L</u> 0 0	<u>т</u> 0 0	<u>R</u> 0 0	<u>L</u> 0 0	<u>T</u> 0 0	<u>R</u> 0	0
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445 - 1500	0	37	3	8	7	8	12	77	2	4	5	1	164	1445 - 1545	9	121	7	23	20	25	53	364	17	34	29	5	70
500 - 1515	2	29	1	3	5	5	12	91	7	8	11	0	174	1500 - 1600	11	113	8	22	15	22	57	373	15	39	29	5	70
515 - 1530	5	23	1	9	3	7	10	108	3	11	8	2	190	1515 - 1615	10	123	10	26	15	19	55	371	14	36	22	5	70
530 - 1545	2	32	2	3	5	5	19	88	5	11	5	2	179	1530 - 1630	10	136	16	23	15	19	51	355	14	35	21	4	69
545 - 1600	2	29	4	7	2	5	16	86	0	9	5	1	166	1545 - 1645	13	149	17	22	10	22	37	353	14	35	21	3	69
600 - 1615	1	39	3	7	5	2	10	89	6	5	4	0	171	1600 - 1700	17	161	16	20	17	22	26	342	17	35	23	9	70
615 - 1630	5	36	7	6	3	7	6	92	3	10	7	1	183	1615 - 1715	19	177	16	24	21	25	19	331	16	44	30	11	73
630 - 1645	5	45	3	2	0	8	5	86	5	11	5	1	176	1630 - 1730	15	175	15	25	21	29	27	338	16	37	26	13	73
645 - 1700	6	41	3	5	9	5	5	75	3	9	7	7	175	1645 - 1745	11	175	20	29	24	35	45	347	16	32	32	13	77
700 - 1715	3	55	3	11	9	5	3	78	5	14	11	2	199	1700 - 1800	10	175	22	31	17	34	59	377	18	26	28	8	80
715 - 1730	1	34	6	7	3	11	14	99	3	3	3	3	187	1715 - 1815	8	166	22	25	27	44	74	389	15	21	22	8	82
730 - 1745	1	45	8	6	3	14	23	95	5	6	11	1	218	1730 - 1830	12	193	21	29	26	47	85	385	17	29	21	5	87
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					1007		0								47			┢───					/	29			_
					1687		0							<u>← 127</u>	oton C			1	◀ ┐	•				-	55	55	0
					1687		877							патт		ικα											_
					0		877												0.5								-
																			85	385							_
							•											487	85	385		0					
																		487	0	0	0	269					_
							A											0				269					_
					Ju	bilee A	A <i>ve</i>											0				269					

	R.O.A.R. D	ΑΤΑ					Client	: Varga Traffic Pla	inning		
	Reliable, Origin	al & Authentic Re	sults				Job No/Name	: 7155 CARLTON		e	
	Ph.88196847, Mob						Day/Date	: Thursday / 8th A	August 2019		
					PM P	EAK HOUR					
					17:	30 - 1830					
Peds	NORTH	WEST	SOUTH	EAST		Peds	NORTH	WEST	SOUTH	EAST	
	Jubilee Ave	Hampton Ct Rd	Jubilee Ave	Hampton Ct Rd			Jubilee Ave	Hampton Ct Rd	Jubilee Ave	Hampton Ct Rd	_
Time Per	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	TOTAL	Peak Per	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	TOT
1430 - 1445	1	16	1	7	25	1430 - 1530	4	98	11	35	148
1445 - 1500	2	18	2	11	33	1445 - 1545	4	106	12	34	156
1500 - 1515	0	21	5	10	36	1500 - 1600	5	102	10	27	144
1515 - 1530	1	43	3	7	54	1515 - 1615	7	98	6	27	138
1530 - 1545	1	24	2	6	33	1530 - 1630	9	70	3	25	107
1545 - 1600	3	14	0	4	21	1545 - 1645	9	58	1	25	93
1600 - 1615	2	17	1	10	30	1600 - 1700	6	55	4	26	91
1615 - 1630	3	15	0	5	23	1615 - 1715	5	47	3	18	73
1630 - 1645	1	12	0	6	19	1630 - 1730	6	43	3	17	69
1645 - 1700	0	11	3	5	19	1645 - 1745	8	57	5	25	95
1700 - 1715	1	9	0	2	12	1700 - 1800	9	60	3	28	100
1715 - 1730	4	11	0	4	19	1715 - 1815	9	74	3	40	126
1730 - 1745	3	26	2	14	45	1730 - 1830	5	88	3	44	140
1745 - 1800	1	14	1	8	24						
1800 - 1815	1	23	0	14	38						
1815 - 1830	0	25	0	8	33						
Period End	24	299	20	121	464	PEAK HR					



	R.O	.A.R.	DA	ТА																			
	Relial	ble, Or	iginal	& Auth	nentic l	Result	S	PEDS	WE	EST	SO	UTH	EA	ST		PEDS	WE	EST	SO	UTH	EA	ST	
DA	Ph.881	96847,	Mobile	.041823	9019			Time Per	Railwa	ay Pde	Jubile	ee Ave	Railwa	ay Pde	TOT	Peak Per	Railwa	ay Pde	Jubile	e Ave	Railwa	ay Pde	TOT
								0630 - 0645	1	0		3		7	20	0630 - 0730	1:	26	2	1	5	56	203
								0645 - 0700	3	88		5	1	0	53	0645 - 0745	18	87		3	8	32	292
Client		-		Planni	•			0700 - 0715	4	10	1	10	2	20	70	0700 - 0800	2	14	2	8	1	01	343
Job No/Na	ame				8 Railwa			0715 - 0730	3	88		3	1	9	60	0715 - 0815	2	38		6	1	16	380
Day/Dat	te	: Thurs	sday / 8	th Augu	ist 2019)		0730 - 0745	7	'1		5	3	33	109	0730 - 0830	2			9	1	25	418
								0745 - 0800		65		10		29	104	0745 - 0845		46		5		21	412
								0800 - 0815		64		8		35	107	0800 - 0900		13		7		20	380
								0815 - 0830		54		16		28	98	0815 - 0915		86		.9		14	349
								0830 - 0845		3		11		29	103	0830 - 0930	1:	55	4	1	1	10	306
								0845 - 0900	-	32		12		28	72			40				04	440
								0900 - 0915		37		10		29	76	PEAK HR	24	46	4	5	1	21	412
								0915 - 0930		23 35		8 01		24 91	55								
								Per End	5.	30	1		Ζ:	91	927								
Lights	WE	EST	SO	UTH	EA	ST		Heavies	W	EST	SO	UTH	EA	ST		Combined	WE	EST	SO	UTH	EA	ST	1
	Railwa	ay Pde	Jubile	e Ave	Railwa	ay Pde			Railwa	ay Pde	Jubile	e Ave	Railwa	ay Pde			Railwa	ay Pde	Jubile	e Ave	Railwa	ay Pde	
Time Per	I	<u>R</u>	L	<u>R</u>	L	I	тот	Time Per	Ι	<u>R</u>	L	<u>R</u>	L	I	тот	Time Per	Ι	R	L	<u>R</u>	L	I	тот
0630 - 0645	110	23	10	36	12	35	226	0630 - 0645	1	0	0	0	0	0	1	0630 - 0645	111	23	10	36	12	35	227
0645 - 0700	123	21	24	58	13	40	279	0645 - 0700	0	0	0	0	0	1	1	0645 - 0700	123	21	24	58	13	41	280
0700 - 0715	152	31	33	68	7	45	336	0700 - 0715	1	0	0	0	0	1	2	0700 - 0715	153	31	33	68	7	46	338
0715 - 0730	135	41	54	62	12	43	347	0715 - 0730	1	0	1	0	0	0	2	0715 - 0730	136	41	55	62	12	43	349
0730 - 0745	132	36	31	68	22	79	368	0730 - 0745	1	0	0	0	0	0	1	0730 - 0745	133	36	31	68	22	79	369
0745 - 0800	174	14	44	108	23	61	424	0745 - 0800	0	0	0	0	0	0	0	0745 - 0800	174	14	44	108	23	61	424
0800 - 0815	176	24	39	114	11	85	449	0800 - 0815	0	1	0	0	0	0	1	0800 - 0815	176	25	39	114	11	85	450
0815 - 0830	149	24	32	149	19	69	442	0815 - 0830	0	0	0	0	0	0	0	0815 - 0830	149	24	32	149	19	69	442
0830 - 0845	184	34	36	68	30	96	448	0830 - 0845	1	0	0	0	0	0	1	0830 - 0845	185	34	36	68	30	96	449
0845 - 0900	151	29	31	67	25	83	386	0845 - 0900	0	1	0	0	0	0	1	0845 - 0900	151	30	31	67	25	83	387
0900 - 0915	151	29	34	68	18	89	389	0900 - 0915	1	0	0	0	0	1	2	0900 - 0915	152	29	34	68	18	90	391
0915 - 0930	171	38	38	40	15	88	390	0915 - 0930	0	0	0	0	0	0	0	0915 - 0930	171	38	38	40	15	88	390
Per End	1808	344	406	906	207	813	4484	Per End	6	2	1	0	0	3	12	Per End	1814	346	407	906	207	816	4496
Lights	WE	EST	so	UTH	EA	ST		Heavies	w	EST	SO	UTH	EA	ST		Combined	WE	EST	SO	UTH	EA	ST	
	Railwa	ay Pde	Jubile	e Ave	Railwa	ay Pde			Railwa	ay Pde	Jubile	ee Ave	Railwa	ay Pde			Railwa	ay Pde	Jubile	e Ave	Railwa	ay Pde	
Peak Per	Ι	R	L	<u>R</u>	L	I	тот	Peak Per	Τ	<u>R</u>	L	R	L	I	тот	Peak Per	Τ	R	L	<u>R</u>	L	I	тот
0630 - 0730	520	116	121	224	44	163	1188	0630 - 0730	3	0	1	0	0	2	6	0630 - 0730	523	116	122	224	44	165	1194
0645 - 0745	542	129	142	256	54	207	1330	0645 - 0745	3	0	1	0	0	2	6	0645 - 0745	545	129	143	256	54	209	1336
0700 - 0800	593	122	162	306	64	228	1475	0700 - 0800	3	0	1	0	0	1	5	0700 - 0800	596	122	163	306	64	229	1480
0715 - 0815	617	115	168	352	68	268	1588	0715 - 0815	2	1	1	0	0	0	4	0715 - 0815	619	116	169	352	68	268	1592
0730 - 0830	631	98	146	439	75	294	1683	0730 - 0830	1	1	0	0	0	0	2	0730 - 0830	632	99	146	439	75	294	1685
0745 - 0845	683	96	151	439	83	311	1763	0745 - 0845	1	1	0	0	0	0	2	0745 - 0845	684	97	151	439	83	311	1765
0800 - 0900	660	111	138	398	85	333	1725	0800 - 0900	1	2	0	0	0	0	3	0800 - 0900	661	113	138	398	85	333	1728
0815 - 0915	635	116	133	352	92	337	1665	0815 - 0915	2	1	0	0	0	1	4	0815 - 0915	637	117	133	352	92	338	1669
		400	120	243	88	356	1613	0830 - 0930	2	1	0	0	0	1	4	0830 - 0930	659	131	139	243	88	357	1617
0830 - 0930	657	130	139	243	00	550	1013	0030 - 0330		<u> </u>	0	0	0		4	0000 - 0000	000	101	100	210	00	00.	

	R.O.	A.R.	DAT	ГА													Client		: Varga	Traffic F	lanning
	Reliat	ole, Ori	iginal 8	& Auth	nentic R	Results										Job	o No/Na	ame	: 7155 C	ARLTC	N 298 Railway Po
DA					239019											C	Day/Dat				August 2019
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4		5		6	<u>AM P</u>							N						FO	R COUNT	Γ	
					0745 -	0845						A	_						PERIOD		
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														0	2152		2160-				6 2714 2720
D	ailway	Ddo						E	Railway	, Ddo					ilway P		2160-	•	•		Railway Pde
2			-						1 112			•		Rai	iway P	ue					Rallway Pue
2	. 119	701							1 112	2 112	.5		4	- 1223	1219	4			•	10	23 1020 3
	683	683	684 -	•	•	-	•	- 311	311	0				1220	1210	-				10	
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																	Ju	bilee /	4 <i>ve</i>		
					Jul	bilee Av	/e														

Lights	w	EST	SO	UTH	EA	ST	Heavies	W	EST	SO	UTH	EAS	Т		Combin
DA	🎾 Ph.88	196847,	Mob.04	18-2390	019									Da	ay/Date
	▲ Relia	ble, Ori	iginal &	& Auth	entic F	Results								Job I	No/Nam
P R	R.O	.A.R.	DAT	ΓΑ										(Client

Client: Varga Traffic Planningb No/Name: 7155 CARLTON 298 Railway PdeDay/Date: Thursday / 8th August 2019

Lights	WE	ST	SO	UTH	EA	ST		Heavies	W	ST	SO	UTH	EA	ST		Combined	WE	ST	SO	UTH	EA	ST	
	Railwa	ay Pde	Jubile	e Ave	Railwa	ay Pde			Railwa	ay Pde	Jubil	ee Ave	Railwa	ay Pde			Railwa	ay Pde	Jubile	e Ave	Railwa	ay Pde	
Time Per	T	<u>R</u>	L	<u>R</u>	L	T	тот	Time Per	T	<u>R</u>	L	<u>R</u>	L	<u>T</u>	тот	Time Per	T	<u>R</u>	L	R	L	T	тот
1430 - 1445	98	18	41	36	17	118	328	1430 - 1445	0	0	0	0	0	0	0	1430 - 1445	98	18	41	36	17	118	328
1445 - 1500	106	31	46	55	23	144	405	1445 - 1500	0	0	0	0	0	0	0	1445 - 1500	106	31	46	55	23	144	405
1500 - 1515	98	14	34	49	17	146	358	1500 - 1515	1	0	0	0	0	0	1	1500 - 1515	99	14	34	49	17	146	359
1515 - 1530	86	15	57	55	13	192	418	1515 - 1530	0	0	0	0	0	0	0	1515 - 1530	86	15	57	55	13	192	418
1530 - 1545	87	21	53	47	14	156	378	1530 - 1545	0	0	0	0	0	0	0	1530 - 1545	87	21	53	47	14	156	378
1545 - 1600	94	16	50	40	22	141	363	1545 - 1600	1	0	0	0	0	0	1	1545 - 1600	95	16	50	40	22	141	364
1600 - 1615	80	23	66	36	23	140	368	1600 - 1615	0	0	0	0	0	1	1	1600 - 1615	80	23	66	36	23	141	369
1615 - 1630	98	19	48	61	28	161	415	1615 - 1630	1	0	0	0	0	0	1	1615 - 1630	99	19	48	61	28	161	416
1630 - 1645	66	31	47	37	16	125	322	1630 - 1645	0	0	0	0	0	2	2	1630 - 1645	66	31	47	37	16	127	324
1645 - 1700	94	37	50	46	23	125	375	1645 - 1700	1	0	0	0	0	0	1	1645 - 1700	95	37	50	46	23	125	376
1700 - 1715	106	31	69	52	27	164	449	1700 - 1715	0	0	0	0	0	0	0	1700 - 1715	106	31	69	52	27	164	449
1715 - 1730	78	21	52	50	15	151	367	1715 - 1730	0	0	0	0	0	0	0	1715 - 1730	78	21	52	50	15	151	367
1730 - 1745	72	14	57	46	24	145	358	1730 - 1745	0	0	0	0	0	0	0	1730 - 1745	72	14	57	46	24	145	358
1745 - 1800	98	32	55	67	18	152	422	1745 - 1800	0	0	0	0	0	0	0	1745 - 1800	98	32	55	67	18	152	422
1800 - 1815	69	29	55	52	19	121	345	1800 - 1815	0	0	0	0	0	0	0	1800 - 1815	69	29	55	52	19	121	345
1815 - 1830	91	34	54	47	31	147	404	1815 - 1830	0	0	0	0	0	0	0	1815 - 1830	91	34	54	47	31	147	404
Per End	1421	386	834	776	330	2328	6075	Per End	4	0	0	0	0	3	7	Per End	1425	386	834	776	330	2331	6082
																							1
Lights	WE	-	-	UTH	EA			<u>Heavies</u>		EST			EA			<u>Combined</u>	WE			UTH		AST	
	Railwa	-	JUDIIe	e Ave	Railwa	r	TOT			ay Pde	JUDII	ee Ave	Railwa		TOT		Railwa	-	JUDIIE	e Ave	Rallwa	ay Pde	TOT
Peak Per	<u> </u>	<u>R</u>		<u>R</u>		<u>T</u>	TOT	Peak Per	<u>T</u>	<u>R</u>	<u> </u>	<u>R</u>		<u>T</u>	тот	Peak Per	<u> </u>	<u>R</u>	<u>L</u>	<u>R</u>		<u>T</u>	TOT
1430 - 1530	388	78	178	195	70	600	1509	1430 - 1530	1	0	0	0	0	0	1	1430 - 1530	389	78	178	195	70	600	1510
1445 - 1545	377 365	81 66	190 194	206 191	67 66	638 635	1559 1517	1445 - 1545 1500 - 1600	1	0	0	0	0	0	1 2	1445 - 1545	378	81 66	190	206 191	67 66	638	1560 1519
1500 - 1600 1515 - 1615	347	75	226	178	72	629	1517	1515 - 1615	2 1	0	0	0	0	1	2	1500 - 1600 1515 - 1615	367 348	75	194 226	178	72	635 630	1519
1530 - 1630	359	79	220	178	87	598	1527	1530 - 1630	2	0	0	0	0	1	2	1530 - 1630	340	79	220	184	87	599	1529
1545 - 1645	338	89	217	174	89	567	1468	1545 - 1645	2	0	0	0	0	3	5	1545 - 1645	340	89	217	174	89	570	1473
1600 - 1700	338	110	211	180	90	551	1480	1600 - 1700	2	0	0	0	0	3	5	1600 - 1700	340	110	211	180	90	554	1475
1615 - 1715	364	118	214	196	94	575	1561	1615 - 1715	2	0	0	0	0	2	4	1615 - 1715	366	118	214	196	94	577	1565
1630 - 1730	344	120	218	185	81	565	1513	1630 - 1730	1	0	0	0	0	2	3	1630 - 1730	345	120	218	185	81	567	1516
1645 - 1745	350	103	228	194	89	585	1515	1645 - 1745	1	0	0	0	0	0	1	1645 - 1745	351	103	228	194	89	585	1550
1700 - 1800	354	98	233	215	84	612	1596	1700 - 1800	0	0	0	0	0	0	0	1700 - 1800	354	98	233	215	84	612	1596
1715 - 1815	317	96	219	215	76	569	1492	1715 - 1815	0	0	0	0	0	0	0	1715 - 1815	317	96	219	215	76	569	1492
1730 - 1830	330	109	221	213	92	565	1529	1730 - 1830	0	0	0	0	0	0	0	1730 - 1830	330	109	213	212	92	565	1529
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PEAK HR	354	98	233	215	84	612	1596	PEAK HR	0	0	0	0	0	0	0	PEAK HR	354	98	233	215	84	612	1596

A PROVIDE A	R.O .	A.R.	DATA										Client	: Varg	ja Traffi	c Planni	ng			
	Reliat	ole, Orig	ginal & Aut	hentic Resul	ts							Job	No/Name	: 7155	5 CARL	TON 29	8 Railv	way Po	de	
DA	Ph.88	196847	Mob.0418	-239019								D	ay/Date			8th Augu				
														тоти	AL VOL	UMES				
				PM PEAK	HOUR					N				FC	OR COU	INT				
				1700 -	1800										PERIO	2				
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	ailway	Pde	<u> </u>				Railwa				Ra	ilway P	de				Rail	lway H	Pde	_
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	R.O.A.R.	DATA								Client	: Varga	a Traffic Plan	ning	
	Reliable, Ori	iqinal & Auth	entic Results						Job	No/Name	_	CARLTON 2	-	lway Pde
D N		, Mob.0418-2								ay/Date		sday / 8th Au		-
\bigcirc													Ĭ	
				РМ	PEAK HR									
				170	00 - 1800									
PEDS					PEDS									
	WEST	SOUTH	EAST			WEST	SOUTH	EAST						
Time Per	Railway Pde	Jubilee Ave	Railway Pde	тот	Peak Per	Railway Pde	Jubilee Ave	Railway Pde	тот					
1430 - 1445	33	11	18	62	1430 - 1530	141	32	64	237					
1445 - 1500	23	2	20	45	1445 - 1545	149	37	71	257					
1500 - 1515	37	7	9	53	1500 - 1600	339	80	169	588					
1515 - 1530	48	12	17	77	1515 - 1615	324	92	181	597					
1530 - 1545	41	16	25	82	1530 - 1630	322	96	192	610					
1545 - 1600	53	11	21	85	1545 - 1645	325	88	192	605					
1600 - 1615	41	3	22	66	1600 - 1700	336	98	215	649					
1615 - 1630	58	8	29	95	1615 - 1715	334	100	222	656					
1630 - 1645	23	13	24	60	1630 - 1730	339	103	225	667					
1645 - 1700	38	10	22	70	1645 - 1745	150	53	96	299					
1700 - 1715	22	19	21	62	1700 - 1800	176	64	118	358					
1715 - 1730	46	16	28	90	1715 - 1815	193	50	126	369					
1730 - 1745	44	8	25	77	1730 - 1830	210	45	130	385					
1745 - 1800	64	21	44	129										
1800 - 1815	39	5	29	73										
1815 - 1830	63	11	32	106										
Per End	673	173	386	1232	PEAK HR	176	64	118	358					

