



# WYNYARD SPORTS PRECINCT AUSTIN STREET TRAFFIC MANAGEMENT WYNYARD

TRAFFIC IMPACT ASSESSMENT

**JANUARY 2023** 





## Wynyard Sports Precinct – Austin Street Traffic Management, Wynyard

#### TRAFFIC IMPACT ASSESSMENT

- Draft 2
- January 2023

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#### 1. Introduction

#### 1.1 Background

A Wynyard Sports Precinct Development is proposed either side of Austin Street on the Southern side of the Jenner Street junction. A Traffic Impact Assessment (TIA) has been prepared to assess options for management of traffic in the vicinity of the proposal and Austin Street that considers the existing roads, current and future traffic activity for each option and the impact of each option on the adjacent road network.

This Traffic Impact Assessment (TIA) should be submitted with the development application for the proposal and has been prepared based on Department of State Growth guidelines and provide details as follows:

- Anticipated additional traffic and pedestrian movements.
- The significance of the impact of these movements on the existing road network
- Any changes required to accommodate the additional traffic.

#### 1.2 Objectives

A Traffic Impact Assessment is a means for assisting in the planning and design of sustainable development proposals that consider:

- Safety and capacity
- Equity and social justice
- Economic efficiency and the environment and
- future development with traffic projections for 10 years

#### 1.3 Scope of Traffic Impact Assessment (TIA)

This TIA considers in detail the impact of the proposal on the surrounding road network including Austin Street, Saunders Street, Jenner Street, Park Street, Gibbons Street, Hales Street and Inglis Street and the intersections involving these streets.

#### 1.4 References

- RTA Guide to Traffic Generating Developments 2002
- Waratah Wynyard Interim Planning Scheme 2013
- Austroads Guidelines:
  - o Guide to Road Design Part 4A Unsignalised and Signalised Intersections 2021
  - o Guide to Traffic Management . Part 6: Inter., Interchanges & Crossings 2020.



#### 1.5 Glossary of Terms

AADT Annual Average Daily Traffic - The total number of vehicles travelling in both

directions passing a point in a year divided by the number of days in a year.

Acceleration Lane An auxiliary lane used to allow vehicles to increase speed without interfering

with the main traffic stream. It is often used on the departure side of

intersections.

Access The driveway by which vehicles and/or pedestrians enter and/or leave the

property adjacent to a road.

ADT Average Daily Traffic – The average 24-hour volume being the total number of

vehicles travelling in both directions passing a point in a stated period divided

by the stared number of days in that period.

Austroads The Association of Australian and New Zealand road transport and traffic

authorities and includes the Australian Local Government Association.

Delay The additional travel time experiences by a vehicle or pedestrian with

reference to a vase travel time (e.g. the free flow travel time).

DSG Department of State Growth – The Tasmanian Government Department

which manages the State Road Network.

GFA Gross Floor Area

Intersection Kerb The place at which two or more roads meet or cross. A raised border of rigid

material formed at the edge of a carriageway, pavement or bridge.

km/h Kilometres per hour

Level of Service An index of the operational performance of traffic on a given traffic lane,

carriageway or road when accommodating various traffic volumes under different combinations of operating conditions. It is usually defined in terms

of the convenience of travel and safety performance.

m Metres

Median A strip of road, not normally intended for use by traffic, which separates

carriageways for traffic in opposite directions. Usually formed by painted

lines, kerbed and paved areas grassed areas, etc.

Movement A stream of vehicles that enters from the same approach and departs from

the same exit (i.e. with the same origin and destination).

Phase The part of a signal cycle during which one or more movements receive right-

of -way subject to resolution of any vehicle or pedestrian conflicts by priority rules. A phase is identified by at least one movement gaining right-of-way at the start of it and at least one movement losing right-of-way at the end of it.



Sight Distance The distance, measured along the road over which visibility occurs between a

driver and an object or between two drivers at specific heights above the

carriageway in their lane of travel.

Signal Phasing Sequential arrangement of separately controlled groups of vehicle and

pedestrian movements within a signal cycle to allow all vehicle and pedestrian

movements to proceed.

SISD Safe Intersection Sight Distance – The sight distance provides sufficient

distance for a driver of a vehicle on the major road to observe a vehicle on a minor road approach moving into a collision situation and to decelerate to a

stop before reaching the collision point.

Speed Distance travelled per unit time.

85th Percentile The speed at which 85% of car drivers will travel slower and 15% will travel

faster.

A control method that allows a variable sequence and variable duration of signal displays depending on vehicle and pedestrian traffic demands.

Traffic-actuated Control A control method that allows a variable sequence and variable duration of

signal displays depending on vehicle and pedestrian tragic demands.

Traffic Growth Factor A factor used to estimate the percentage annual increase in traffic volume.

Trip A one-way vehicular movement from one point to another excluding the

return journey. Therefore, a vehicle entering and leaving a land use is counted

as two trips. (RTA Guide to Traffic generating Developments).

Turning Movement The number of vehicles observed to make a particular turning movement (left

or right turn, or through movement) at an intersection over a specified period.

Turning Movement

Count

A traffic count at an intersection during which all turning movements are

recorded.

Vehicle Actuated Traffic

Signals

Traffic signals in which the phasing varies in accordance with the detected

presence of vehicles on the signal approaches.

vpd vehicles per day – The number of vehicles travelling in both directions passing

a point during a day from midnight to midnight.

vph vehicles per hour – The number of vehicles travelling in both directions

passing a point during an hour.



#### 1.6 Statement of Qualifications and Experience

This TIA has been prepared by Richard Burk, an experienced and qualified traffic engineer in accordance with the requirements of the Department of State Growth's guidelines and Council's requirements. Richard's experience and qualifications include:

- 35 years professional experience in road and traffic engineering industry
  - o Director Traffic and Civil Services Pty Ltd since May 2017
  - o Manager Traffic Engineering, Department of State Growth until May 2017.
  - Previous National committee memberships of Austroads Traffic Management and State Road Authorities Pavement Marking Working Groups
- Master of Traffic, Monash University, 2004
- Post Graduate Diploma in Management, Deakin University, 1995

• Bachelor of Civil Engineering, University of Tasmania, 1987

•

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BE (Civil) M Traffic Dip Man. MIE Aust CPEng Director Traffic and Civil Services Pty Ltd



## 2. Site Description

Sport facilities operate either side of Austin Street, South of the Jenner Street junction. WWC propose to support the facilities with improved off-street parking, safer access for pedestrians and cyclists and recognition of the area as the Wynard Sport Precinct. Figures 1 & 2 show the development and an aerial view of the existing facilities including:

- Jaycee Park
  - Wynyard Sports Centre
  - o Basketball stadium
  - o Tennis & Squash courts
  - Wynyard Concert Band
  - o Community Garden
- Wynyard Bowls Club ( Park Street)
- Wynyard Sports Ground
- Wynyard High School ( Church Street) Sports Ground

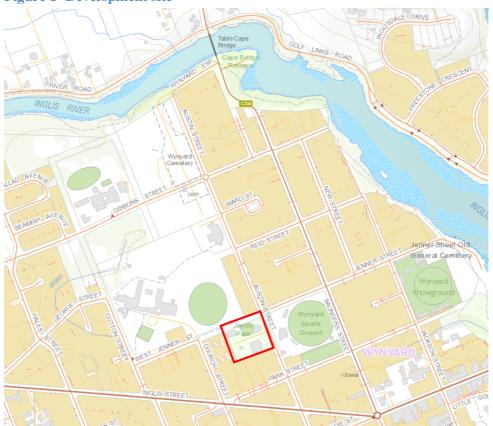


Figure 1 -Development site



Figure 2 – Aerial view of development site





## 3. Proposed Development

Figure 3 – Extract from proposed development layout

#### 3.1 Description of Proposed Development

The proposal is to develop the site as shown in Figure 3 with formalised off-street car parking, removal of through traffic, safer access for all road users including pedestrians, landscaping and enhancement of the existing infrastructure.

To achieve the safest possible outcome WWC propose making Austin Street a No Through Road, see Figure 3. Also see Appendix A for the overall plan.

AUSTIN STREET CLOSURE
(SUBJECT TO TRAFFIC
MAPACT ASSESSMENT)

CLOSE AUSTIN STREET
TO PROMOTE
PEDESTRIAN
CONNECTIVITY WITHIN
PRECINCT AND ACCESS
TOWARDS THE
TOWNSHIP

SPORTS WALK OF FAME
CONNECTS TO EXISTING
URBAN FOOTPATH
PRECINCT WHICH
CONNECTS TO EXISTING
URBAN FOOTPATH
PRECINCT WHICH
CONNECTS TO EXISTING
URBAN FOOTPATH
PRECINCT WITH
SUITABLE TREE
SPECIES
PECIES



#### 3.2 Council Planning Scheme

The development site is zoned Recreation in accordance with the Waratah – Wynyard Interim Planning Scheme – 2013, see Figure 4a.

Tasmanian Interim Planning
Scheme Zoning More Information More Inio...
Transparency: Zoom to layer's extent Filter or Search Layer | Show: All 10.0 General Residential 11.0 Inner Residential 12.0 Low Density Residential 13.0 Rural Living 14.0 Environmental Living 15.0 Urban Mixed Use 16.0 Village 17.0 Community Purpose 18.0 Recreation 19.0 Open Space 20.0 Local Business 21.0 General Business 22.0 Central Business 23.0 Commercial 24.0 Light Industrial
25.0 General Industrial 26.0 Rural Resource 27.0 Significant Agricultural 28.0 Utilities 29.0 Environmental Mana 30.0 Major Tourism 31.0 Port and Marine 32.0 - 39.0 Particular Purpose 🕨 🐝 TasWater - Stormwater Main TasWater - Water Main TasWater - Water Lateral

Figure 4a – Proposed development site is zoned Recreation.

Source: LISTmap, DPIPWE

#### 3.3 Local Road Network Objectives

The Waratah Wynyard Council objective is to maintain traffic safety and transport efficiency of the Council Road network.



## 4. Existing Conditions

#### 4.1 Transport Network

The local transport system within the study area consists of Inglis Street which has a sub-arterial function, Saunders Street which is a Collector Road and Austin, Gibbons and Hale Streets which are local roads. Jenner and Park Streets are short residential streets. The remainder of the roads have local access function and are primarily residential streets. All the roads within the study area are Council Roads.

Council's Road Hierarchy for these roads at Wynard is shown in Figure 4b, also see Appendix K.

Figure 4b – Extract from Wynyard Road Hierarchy





#### 4.2 Inglis Street

Inglis Street has a sub arterial function with estimated AADT of 6,600 vpd (2022) and is part of the Tasmanian 26m B Double Network, see Appendix D. The road has a speed limit of 60km/h on the approaches to Hale and Austin Streets. Inglis Street has a 50km/h speed limit on the approaches to the Saunders Street roundabout.

Inglis Street has 2.5m wide parking and 4.0m wide traffic lanes in each direction. Footpath is provided both sides of the road with one pedestrian island provided for crossing the road.

Delineation is provided with streetlighting and line marking with a Separation line.

#### 4.2.1 Inglis Street / Austin Street intersection

The Inglis Street / Austin Street intersection is shown in Figures 5-10.





Source: LISTmap, DPIPWE

Figure 6 – Looking right along Inglis St. from Austin St.



Sight distance right is 150m.



Figure 7 – Looking left along Inglis St. from Austin St.



Sight distance left is 150m.

Figure 8 – Inglis Street Eastern approach to Austin St.



Figure 9 – Austin St. (North) approach to Inglis St.





#### 4.2.2 Austin Street

Austin Street has a very minor collector road function with estimated AADT of 1,050 vpd (2022) and the General Urban Speed Limit of 50km/h applies.

Austin Street varies in width, progressively narrowing from 14.3m at Inglis Street to 11m on the North side of Jenner Street and 8.4m on the North side of Reid Street.

The road supports on street parking and footpath is provided on the East side. Delineation is provided with streetlighting .

#### 4.2.3 Austin Street / Park Street intersection

The Austin Street / Park Street intersection is shown in Figures 10 - 12.

Figure 10 - Aerial view of Austin St. / Park St. intersection



Figure 11 – Austin Street Northern approach to Park St.





Figure 12 – Park St. Eastern approach to Austin St.



#### 4.2.4 Park Street

Park Street is a local access road with estimated AADT of 300 vpd (2022) and the General Urban Speed Limit of 50km/h applies. The road provides access to the Wynyard Bowls Club.

Park Street is 13.4m wide and supports angle parking on the North side and parallel parking on the South side. The parking spaces are delineated with line marking.

Footpath is provided both sides of the road and streetlighting.

#### 4.2.5 Austin Street / Jenner Street junction

The Austin Street / Jenner Street junction is shown in Figures 13 - 18.

Figure 13 – Aerial view of Austin St. / Jenner St. junction



Junction has a Simple Right and Left layout.

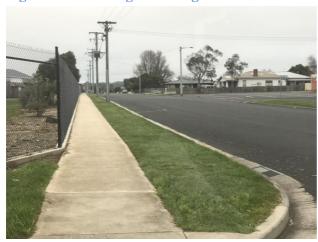


Figure 14 – Looking right along Austin St. from Jenner St.



Sight distance Right is 200m.

Figure 15 – Looking left along Austin St. from Jenner St.



Sight distance left is 200m.

Figure 16 – Austin St. Southern approach to Jenner St.





Figure 17 – Austin St. Southern approach to Jenner St.



#### 4.2.6 Austin Street / Reid Street junction

The Austin Street / Reid Street junction is shown in Figures 18-19.

Figure 18 – Aerial view of Austin St. / Reid St. junction



Figure 19 – Austin St. Southern approach to Reid St.





#### 4.2.7 Jenner Street

Jenner Street has estimated AADT of 220 vpd (2022) and the General Urban Speed Limit of 50km/h applies.

Jenner Street is 12.3m wide and supports on street parking both sides. Footpath is provided along the North side of the road and has streetlighting.

#### 4.2.8 Gibbons Street / Austin Street intersection

The Gibbons Street / Austin Street Roundabout is shown in Figures 20–21.

Figure 20 - Aerial view of Gibbons St. / Austin St. roundabout



Source: LISTmap, DPIPWE

Figure 21a - Austin St. (West ) approach to Gibbons St.



Sight distance right is 10m and 50m with bush removal.



Figure 21b - Austin St. (North) approach to Gibbons St.



Sight distance right is 35m and 62m with bush removal

Figure 21c – Austin St. (South) approach to Gibbons St.



Sight distance right is 62m.

Figure 21d - Austin St. (East) approach to Gibbons St.



Sight distance right is 50m and 62 with tree removal.

#### 4.2.9 Gibbons Street

Gibbons Street has a minor collector road function with estimated AADT of 1,500 vpd (2022) and provides access to Table Cape Primary School (TCPS) and Wynyard High School on the North and South sides of the road respectively.

When the Electronic 40 Km/hr School Zone is not operating the General Urban Speed Limit of 50km/h applies. Gibbons Street varies in width between 12 and 10.3m at the Saunders Street intersection. The road supports on street parking either side.

Footpath is provided on both sides of the road and a School Crossing is provided at the Table Cape Primary School, see Figures 22 & 23. Road delineation is provided with streetlighting and marked car parking spaces both sides.



Figure 22 – Gibbons St. Eastern approach to TCPS Crossing



Figure 23 – Gibbons St. at TCPS Crossing



#### 4.2.10 Hales Street / Gibbons Street intersection

The Hales Street / Gibbons Street intersection is shown in Figures 24-26.

Figure 24 - Aerial view of Hale St. / Gibbons St. intersection



Junction has a Simple Right and Left layout



Figure 25 – Hales St. Southern approach to Gibbon St.



Figure 26 – Gibbons St. Eastern approach to Hales St.



#### 4.2.11 Hales Street

Hales Street has a minor collector road function with estimated AADT of 2,300 vpd (2022) and the General Urban Speed Limit of 50km/h applies.

Hales Street is 13.7m wide and supports on street parking and footpath is provided mostly on both sides of the road.

Delineation is provided with streetlighting and some B3 Barrier line on the winding sections.



#### 4.2.12 Inglis Street / Hales Street intersection

The Inglis Street / Hales Street intersection is shown in Figures 27-29.

Figure 27 – Aerial view of Inglis St. / Hales St. intersection



Figure 28 – Inglis St. Eastern approach to Hales St.



Figure 29 – Hales St. Northern approach to Inglis St.





#### 4.2.13 Inglis Street / Saunders Street intersection

The Inglis Street / Saunders Street intersection is shown in Figures 30-31.

Figure 30– Aerial view of Inglis St. / Saunders St. intersection.



Source: LISTmap, DPIPWE

Figure 31a - Saunders St. Northern approach



Sight distance right is 20m.

Figure 31b - Saunders St. Southern approach



Sight distance right is 20m.



Figure 31c - Goldie St. Eastern approach



Sight distance right is 70m.

Figure 31d - Inglis St. Western approach



Sight distance right is 20m.

#### 4.2.14 Saunders Street

Saunders Street has a Collector Road function with estimated AADT of 2,500 vpd (2022) and has a posted 60km/h speed limit.

Saunders Street supports on street parking and varies in width:

- Inglis to Park Street 12.8m with footpath both sides
- Park to Jenner Street 14.3m with footpath both sides
- Jenner to Table Cape Bridge 10.3m with footpath on the East Side
- Table Cape Bridge 7.5m plus a footpath on the East side.

Delineation is provided with street lighting and line marked with Separation Line B3 Barrie line on the reverse curves South of Table Cape Bridge.



#### 4.2.15 Saunders / Park Street intersection

The Saunders St. / Park St. intersection is shown in Figures 32-33.

Figure 32 – Aerial view of Saunders St. / Park St, intersection



Figure 33 – Saunders St Northern approach to Park St.





#### 4.2.16 Saunders / Jenner Street junction

The Saunders St. / Jenner St. intersection is shown in Figures 34 - 37.

Figure 34 – Aerial view of Saunders St. / Jenner St. intersection



Source: LISTmap, DPIPWE

Figure 35 – Looking right along Saunders St. from Jenner St. (West)



Sight distance right is 50m and 123m with tree pruning.

Source: Google Maps

Figure 36 – Looking left along Saunders St. from Jenner St. (West)



Sight distance left is 123m.



Figure 37 – Saunders St Northern approach to Jenner St.



Source: LISTmap, DPIPWE

#### 4.2.17 Saunders / Gibbons Street intersection

The Saunders / Gibbons Street intersection is shown in Figures 38-43.

Figure 38 – Aerial view of Saunders St. / Gibbons St. intersection.



Source: LISTmap, DPIPWE

Figure 39 – Looking right along Saunders St. from Gibbons St. (West)



Sight distance left is 123m.



Figure 40 – Looking left along Saunders St. from Gibbons St. (West)



Sight distance left is 60m and 123m with tree pruning.

Figure 41 – Saunders St Northern approach to Gibbons St.



Figure 42 – Saunders St Southern approach to Gibbons St.





Figure 43 - Gibbons St. (West) approach to Saunders St.



#### 4.2.18 Saunders Street (Table Cape Bridge)

The Saunders Street Southern approach to Table Cape Bridge is shown in Figure 44.

Figure 44 – Saunders St. Southern approach to Table Cape Bridge





#### 4.3 Traffic Activity

WWC traffic survey data from Sept – Oct 2022 is attached in Appendix B. Metrocount speed data is attached in Appendix C and Metrocount traffic flow data is attached in Appendix L. Figure 45 summarises the traffic data.

Figure 45 – Estimated AADT (2022) for surrounding road network

				Traffic	Counts	i	Ti	raffic Spe	eds
Road	Location	Data	AM	PM	AADT	Average	Posted	85th%	
Koau		Source	Peak	Peak	AADI	AADT	Limit	Speed	Site
			(vph)	(vph)	(vpd)	(vpd)	(km/h)	(km/h)	
	At Hales St.	WWC	620	586	6030	6,500			50km/h
Inglis St.	At Austin St.	WWC	610	718	6640		60	54.36	Sign
	At Saunders St.	TCS	700	700	7000				
Austin St.	Jenner St.	WWC	106	132	1190	1,050	50	59.40	PP510206
Austin St.	Inglis St.	WWC	100	80	900	1,030			
	Inglis St.	TCS	250	260	2550		60	63.00	PP372796
Saunders St.	Park St.	WWC	245	254	2500	2,500			
Sauriuers St.	Jenner St.	TCS	250	235	2420	2,300			
	Gibbons St.	WWC	256	216	2360				
Hales St.	Gibbons St.	WWC	257	192	2245	2,300	50		
naies st.	Inglis St.	WWC	258	225	2415	2,300	30		
Park St.	Saunders St.	WWC	28	34	310	300	50	42.48	PP125158
Jenner St.	Saunders St.	TCS	16	29	220	220	50	50.58	PP125326
Jenner St.	Austin St.	WWC	16	29	220	220	50	30.38	
	Saunders St.	WWC	162	103	1320				PP124319
Gibbons St.	Austiin St.	TCS	189	119	1537	1,500	50	58.86	
	Hales St.	WWC	216	135	1755				

Final estimates from WWC 2022 Metrocount data

PP Power Pole

#### Initial estimates by TCS from interpolation of WWC turning count surveys

The 85<sup>th</sup> Percentile traffic speed data provides evidence of reasonable compliance with the applicable Speed Limits on each of the roads. It is noted however the:

- 85<sup>th</sup> Percentile speed on Austin St is 59.4 km/h within a 50km/h Speed Limit.
- 85<sup>th</sup> Percentile speed on Saunders St is 63 km/h within a 60km/h Speed Limit.

It is suggested that the proposal will enable transfer of through traffic to Saunders Street which has a speed limit more in keeping with demand than Austin Street.



#### 4.4 Sight Distance Summary (Figure 46)

Figure 46 – Sight Distance Summary for existing and proposed junctions

Junction	Sp	eed	Road frontage sight distance			
Major Rd - Minor Rd	Limit	Environ.	Austroads	Available		
	(km/h)	(km/h)	SISD (m)	Left(m)	Right(m)	
Inglis - Austin (Nth)	60	60	123	150	150	
Austin - Park(East)	50	50	97	105	150	
Austin - Jenner (East)	50	50	97	200	200	
Austin - Reid	50	50	97	150	150	
Austin - Gibbons (West)					50	
Austin - Gibbons (Nth)		35	62		62	
Austin - Gibbons (Sth)	50	55			62	
Austin - Gibbons (East)					62	
Hale - Gibbons (East)	50	50	97	84	150	
Inglis - Hale (North)	60	60	123	150	123	
Inglis - Saunders (West)					20	
Inglis - Saunders(Nth)	50	35	62		20	
Inglis - Saunders (Sth)	30	55	02		20	
Inglis - Saunders (East)					70	
Saunders - Park (West)	60	60	123	123	150	
Saunders - Jenner (West)	60	60	123	123	123	
Saunders - Gibbons (West)	60	60	123	123	123	

SISD compliant	SISD marginal
SISD compliant with tree pruning	SISD non-compliant

#### 4.5 Crash History

The Department of State Growth is supplied with reported crashes by Tasmania Police. The Department maintains a crash database from the crash reports which is used to monitor road safety, identify problem areas and develop improvement schemes.

Figure 47 summarises the reported crash history for the surrounding road network.

There are no reported crashes within the vicinity of the proposal.

There is no crash propensity on the Council Road network. See Appendix J for crash locations for each street.



Figure 47 – Reported 5 Year Crash History Summary

Street	Crash Id	Description	Date	Time	Severity	Light	location	Units
	2035121	110 - Cross traffic	20-Apr-2017	18:43	PDO	Dusk	Austin St / Park St. Int.	LV & LV
	49947027	110 - Cross traffic	30-Mar-2019	18:49	PDO	Dusk	Austin St / Inglis St. Int.	LV & LV
	50569937	110 - Cross traffic	01-Feb-2020	12:25	PDO	Day	Austin St / Park St.Int.	LV & LV
Austin	50670434	110 - Cross traffic	01-Jun-2020	14:40	PDO	Day	Austin St / Inglis St. Int.	LV & LV
	50920431	169 - Other on path	30-Dec-2020	18:20	Serious	Day	Austin St.	LV & LV
	51433715	169 - Other on path	21-Oct-2021	00:43	Minor	Night	Austin St / Inglis St. Int.	LV & LV
	51754304	110 - Cross traffic	28-Aug-2022	11:50	Serious	Day	Austin St / Inglis St. Int.	LV & LV
Gibbons			No	repor	ted crash	es		
Hales	2015503	189 - Other curve	04-Mar-2017	01:50	Serious	Night	Hales St.	Motorcycle
	2018286	100 - Near side	11-Mar-2017	10:50	PDO	Day	Inglis / Saunders Int.	LV & Ped
	2064102	110 - Cross traffic	01-Jul-2017	18:50	PDO	Night	Inglis / Saunders Int.	LV & LV
	48779573	110 - Cross traffic	27-Nov-2017	00:00	PDO	Night	Inglis / Saunders Int.	LV & LV
	49968034	100 - Near side	17-Apr-2019	13:20	Minor	Day	Inglis / Saunders Int.	LV & Ped
	49979475	110 - Cross traffic	01-May-2019	13:00	PDO	Day	Inglis / Saunders Int.	LV & LV
	50197148	164 - Permanent obs	31-Jul-2019	08:00	PDO	Day	Inglis / Saunders Int.	HV
	50614207	179 - Other straight	01-Apr-2020	03:15	PDO	Night	Inglis / Saunders Int.	LV
	51041591	121 - Right through	27-Apr-2021	08:00	PDO	Day	Inglis / Saunders Int.	LV & LV
	51347266	110 - Cross traffic	13-Aug-2021	18:40	PDO	Night	Inglis / Saunders Int.	LV & LV
Inglis	48812170	144 - Parking vehicle	28-Dec-2017	11:00	PDO	Day	Inglis St.	LV & LV
	51426689	132 - Veh. in same la	13-Oct-2021	17:00	Minor	Day	Inglis St.	LV & LV
	51502400	173 - Right off c/way	01-Jan-2022	16:15	PDO	Day	Inglis St.	LV
		121 - Right through	06-Jun-2018	08:50	PDO	Day	Inglis / Church Int.	LV & LV
		137 - Veh. in paralle		11:50	First Aid	Day	Inglis / Park Int.	LV & Bicycle
		110 - Cross traffic	30-Mar-2019	18:49	PDO	Dusk	Inglis / Austin Int.	LV & LV
	50670434	110 - Cross traffic	01-Jun-2020	14:40		Day	Inglis / Austin Int.	LV & LV
	51433715	169 - Other on path	21-Oct-2021	00:43	Minor	,	Inglis / Austin Int.	LV & LV
	_	110 - Cross traffic	28-Aug-2022	11:50	Serious	Day	Inglis / Austin Int.	LV & LV
		132 - Vehicles in san		10:15	PDO	Day	Inglis / Cotton Int.	LV & LV
	50891718	110 - Cross traffic	05-Dec-2020	11:30	Minor		Jenner / Saunders Int.	
Jenner	51501151	149 - Other maneuv	23-Dec-2021	17:35	PDO	Day	Jenner St.	
	2035121	110 - Cross traffic	20-Apr-2017	18:43	PDO	Dusk	Austin St. / Park St. Int.	LV & LV
	49890206	110 - Cross traffic	09-Mar-2019	13:15	Minor	Day	Saunders St. / Park St. In	
		110 - Cross traffic	01-Feb-2020	12:25		Day	Austin St. / Park St. Int.	LV & LV
Park	50881115	110 - Cross traffic	30-Nov-2020	09:50		Day	Saunders St. / Park St. In	
	51440817	145 - Reversing		11:00		Day	Park St.	HV & LV
		169 - Other on path	10-Nov-2021				Park St.	LV & LV
			11 Mar 2017	10:50	PDO	_		IV & Dod
	2018286 2064102	100 - Near side 110 - Cross traffic	11-Mar-2017 01-Jul-2017	10:50 18:50				LV & Ped. LV & LV
							<u> </u>	LV & LV
		110 - Cross traffic		00:00			0 .	
		110 - Cross traffic	09-Mar-2019 17-Apr-2019		Minor Minor	_	_	LV & LV LV & Ped.
		100 - Near side 110 - Cross traffic	01-May-2019					
Saunders		164 - Perm. Obst. on		08:00		-		LV & LV HV
		179 - Other straight		03:15				LV
		110 - Cross traffic	30-Nov-2020	09:50				LV & LV
		110 - Cross traffic	05-Dec-2020		Minor	_		LV & LV
		121 - Right through		08:00				
			27-Apr-2021			Day Night		LV & LV
	31347200	110 - Cross traffic	13-Aug-2021	18:40	PDU	Might	Inglis / Saunders Rabt	LV & LV



#### 4.6 Road Safety Review

From road safety review some potential issues were identified and some countermeasures are suggested, see Figure 48, which summarises the review.

#### 4.6.1 Inglis Street (Hales to Saunders)

The Inglis / Saunders / Goldie Street roundabout has limited sight distance due to buildings close to the intersection. In future with higher traffic volumes traffic signals could be considered that would overcome the limited sight distance issue and provide for pedestrians. There have been 2 pedestrian crashes at the roundabout in 2017 & 2019.

#### 4.6.2 Austin Street (Inglis to Gibbons)

The Austin / Gibbons Street roundabout approaches have vegetation that limit sight distance to the right on several approaches which could be resolved by pruning vegetation.

#### 4.6.3 Saunders Street (Inglis to Gibbons)

No issues were identified.

#### 4.6.4 Hales Street (Inglis to Gibbons)

The Hales /Gibbons Street intersection is a combination of offset Y junctions with an unfortunate offset potentially resulting in conflict between right turners to the side roads being opposed to each other. The right turning volume on the Hales Street Northern approach is very low and will remain very low therefore crash risk is low, and a roundabout is not considered necessary.

#### 4.6.5 Gibbons Street (Hales to Saunders)

No issues were identified.

#### 4.6.6 Park Street (Austin to Saunders)

No issues were identified.

#### 4.6.7 Jenner Street (Austin to Saunders)

No issues were identified.



Figure 48 – Road Safety Review Summary

			200	d Cafety Davi	***
		5 Year Reported	BOY	road salety heview	- A
Link and	Link and intersection	Crash History	Issue	Crash Risk	Countermeasure
Inglis (Hales to Saunders) with	with 60 km/hr & 6,500 vpd	1 Minor, 3 PDO	Rear end crashes	Medium - Low	
	Inglis - Hales	None	Simple intersection layout	Low	Median Turn Lane , not currently
	Inglis - Austin	1 Serious, 1 Minor & 2 PDO	Simple intersection layout	Low	warranted
	Inglis - Saunders - Goldie	1 Minor & 8 PDO	Limited sight distances at roundabout	Low	Traffic Signals not currently warranted
Austin (Inglis to Gibbons) with 50 km/hr &	with 50 km/hr & 1,050 vpd	1 Serious			
		2 PDO	on in the	Month	Š
	Austin - Jenner	None	sanssi on	very cow	¥.
	Austin - Reid	None			
	Austin - Gibbons	None	Limited sight distance to the right at roundabout	Low	Clearing of vegetation on roundabout approaches
Saunders (Inglis to Gibbor	Saunders (Inglis to Gibbons) with 60 km/h & 2,500 vpd	None			
	Saunders - Park	1 Minor, 1 PDO	Noisense	Vonction	Š
	Saunders - Jenner	1 Minor	sanssi on	vely LOW	Y.
	Saunders - Gibbons	None			
Hales (Inglis to Gibbons) with 50 km/h	with 50 km/h & 2,300 vpd	1 Serious	No issues	Low	NA
	Hale - Gibbons	None	Unfavourable side road offsets	Low	Roundabout, not currently warranted
Gibbons (Saunders to Hal	Gibbons (Saunders to Hales) with 50km/h & 1,500 vpd	None	No issues	Very Low	NA
Park (Austin to Saunders ) with 50km/	) with 50km/h & 300 vpd	2 PDO	No issues	Very Low	NA
Jenner (Austin to Saunders ) with 50km/h & 220 vpd	rs ) with 50km/h & 220 vpd	1 PDO	No issues	Very Low	NA



#### 4.7 Safe System Assessment

The streets within the study area have been assessed with the Austroads Safe System assessment framework. This framework involves consideration of exposure, likelihood and severity to yield a risk framework score. High risk crash types and vulnerable road user crash types are assessed for each site and aggregated to provide an overall crash risk. Crash risk is considered in terms of three components:

- Exposure (is low where low numbers of through and turning traffic) i.e.1 out of 4
- Likelihood (is low where the infrastructure standard is high) i.e. 1 out of 4
- Severity (is low where the speed environment is low) i.e. 1 out of 4

The Austroads Safe System Assessment process enables the relative crash risk of an intersection or road link to be assessed. Road users are considered along with the most common crash types. The crash risk score is an indication of how well the infrastructure being assessed satisfies the *safe system objective which is for a forgiving road system where crashes do not result in death or serious injury*.

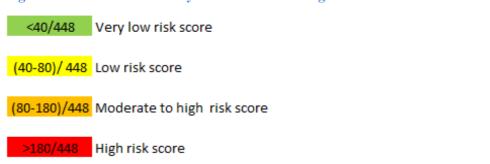
From safe system assessment the following crash risk scores were calculated:

•	Inglis Street ( Hales to Saunders)	-36/448
•	Austin Street (Inglis to Gibbons)	-27/448
•	Saunders Street (Inglis to Gibbons)	-23/448
•	Hales Street (Inglis to Gibbons)	-21/448
•	Gibbons Street ( Hales to Saunders)	-16/448
•	Park Street ( Austin to Saunders)	-18/448
•	Jenner Street ( Austin to Saunders)	-15/448

See Appendix E for assessment details for each street.

These crash risk scores indicate good alignment with the safe system objective with very low risk scores, see Figure 49.

Figure 49 - Austroads Safe System Assessment alignment between crash score and risk





# 5. Traffic Generation and Assignment

This section of the report describes how traffic generated by the proposal is distributed within the adjacent road network now and in 10 & 20 years.

#### 5.1 Traffic Growth

0.5% average annual exp. growth is assumed for Hales, Austin, Saunders & Gibbons Streets. Due to the low traffic volumes whether a 0.5 or 1% rate is applied will have minimal impact on traffic capacity.

#### Compound annual growth

- 0.5% would result in a 5.1 % increase in traffic in 10 years.
- For a road with a 1,000 vpd AADT this would represent a 51 vpd increase.
- 5% would result in a 10.4 % increase in traffic in 10 years.
- For a road with a 1,000 vpd AADT this would represent a 104 vpd increase.

# 5.2 Trip Generation

No additional trip generation is assumed due to the development however some traffic transfers are assumed for the various options as follows:

# Option 1 – Closure of Austin St ( Jenner St. towards Park St. for 100m.)

- No change in traffic use on Hales St., Inglis St. or Gibbons St. West of Austin Street
- Change in use of Austin Street:
  - o AM peak 70 to 35 vph i.e 35vph reduction
  - o PM peak 50 to 25 vph i.e 25vph reduction
- Change in use of Saunders Street:
  - o AM peak 35 vph increase
  - o PM peak 25 vph increase

#### Option 2 - Calming of Austin St with a 10km/h Shared Zone

- No change in traffic use on Hales St., Inglis St. or Gibbons St. West of Austin Street
- Change in use of Austin Street:
  - o AM peak 70 to 50 vph i.e 20 vph reduction
  - o PM peak 50 to 35 vph i.e 15vph reduction
- Change in use of Saunders Street:
  - o AM peak 20 vph increase
  - o PM peak 15 vph increase



#### Option 3 - Calming of Austin St with traffic management facilities

- No change in traffic use on Hales St., Inglis St. or Gibbons St. West of Austin Street
- Change in use of Austin Street:
  - o AM peak 70 to 50 vph i.e 20 vph reduction
  - o PM peak 50 to 35 vph i.e 15vph reduction
- Change in use of Saunders Street:
  - o AM peak 20 vph increase
  - o PM peak 15 vph increase

#### Option 4 - Calming of Austin St with a 40km/h Speed Limit

• No change in traffic use on Hales, Inglis, Gibbons, Austin or Saunders Streets.

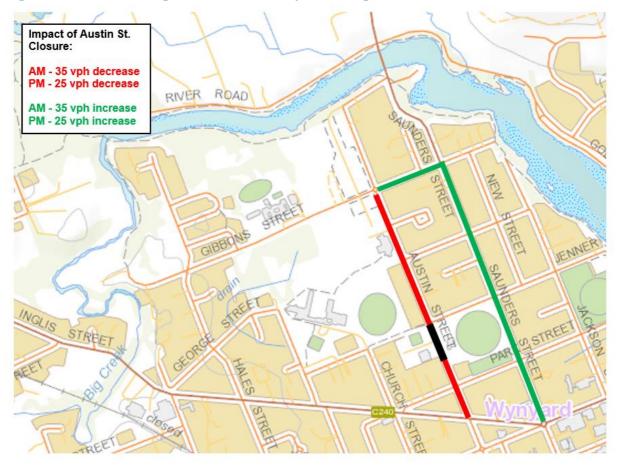
In summary, see Figure 50, the impact of the options are estimated as follows:

- Option 1 yields a 25-35 vph transfer from Austin to Saunders Street
- Options 2 & 3 yield a 15-20 vph transfer from Austin to Saunders Street
- Option 4 yields no vph transfer from Austin to Saunders Street

For analysis purposes traffic assignments are prepared for Option 1 and Option 4 at the intersection most adversely impacted i.e the Saunders Street intersections with Gibbons Street and Park Street. The traffic assignments for 2022 are attached in Appendix I and assignments for 2032 and 2042 are shown in Figures 51 - 54.



Figure 50 – Estimated impact on traffic activity due to Option 1 – Austin Street closure



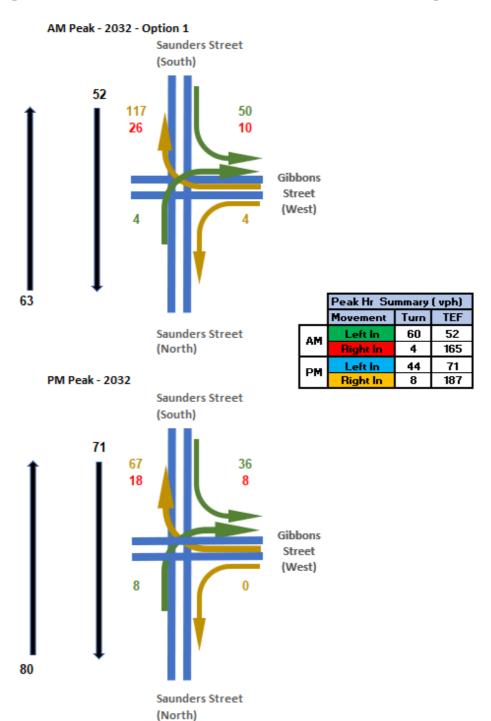
# 5.3 Trip Assignment

Traffic assignments have been prepared for the following cases:

- Inglis / Saunders intersection for 2032 & 2042 for Option 1 and Option 4
- Gibbons / Saunders intersection for 2032 & 2042 for Option 1 and Option 4



Figure 51 – Saunders / Gibbons Street intersection 2032 & 2042 for Option 1





AM Peak - 2042 - Option 1

(South)

54

123
27

10

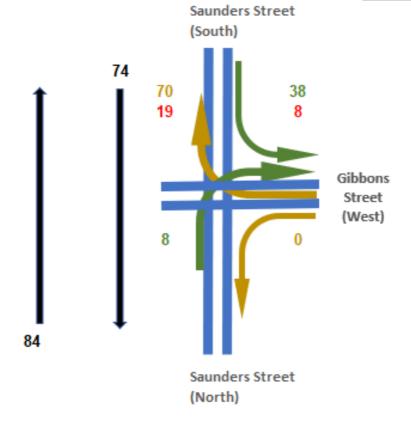
Gibbons
Street
(West)

Saunders Street

Saunders Street (North)

PM Peak - 2042







63

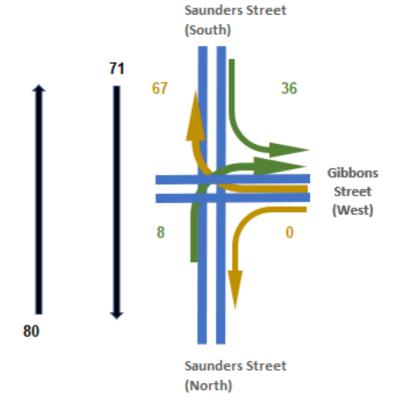
Figure 52 – Saunders / Gibbons Street intersection 2032 & 2042 for Option 4

# AM Peak - 2032 - Option 4 Saunders Street (South) 52 117 50 Gibbons Street (West)

Saunders Street (North)

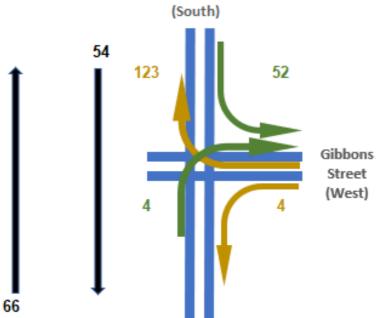
PM Peak - 2032

	Peak Hr Summary (vph)				
	Movement	Turn	TEF		
АМ	Left In	50	52		
AI"	Right In	4	165		
P <b>M</b>	Left In	36	71		
	Right In	8	187		





AM Peak - 2042 - Option 4



Saunders Street

Saunders Street (North)

PM Peak - 2042

Peak Hr Summary (vph) Movement Turn **TEF** Left In 54 52 AM Right In 172 4 Left In 38 74 PΜ Right In 8 196

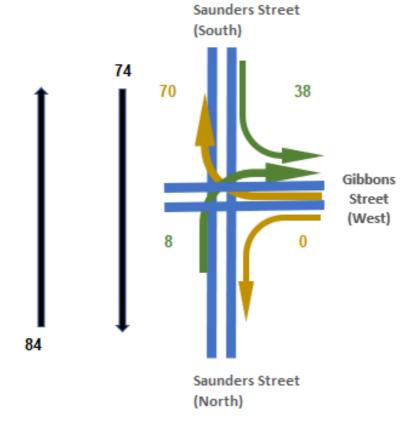
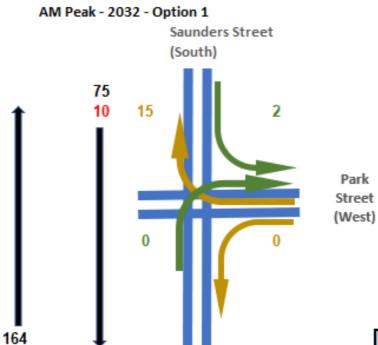




Figure 53 – Saunders / Park Street intersection 2032 & 2042 for Option 1

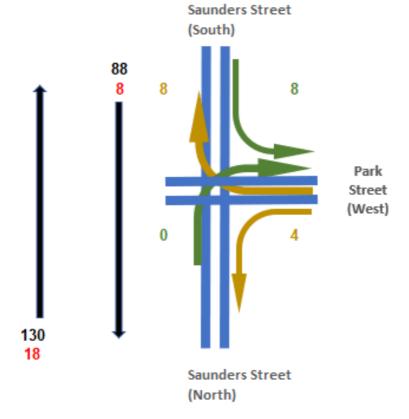


Saunders Street (North)

PM Peak - 2032

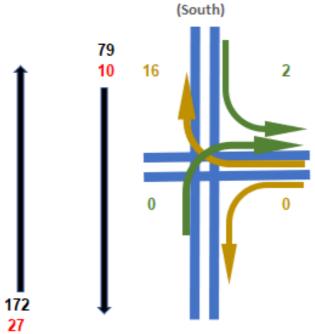
26

	Peak Hr Summary (vph)					
	Movement	Movement Turn TEF				
АМ	Left In	2	85			
MIT	Right In	0	277			
РМ	Left In	8	96			
PM	Right In	0	252			





AM Peak - 2042 - Option 1



Saunders Street (North)

Saunders Street

PM Peak - 2042



Park Street (West)

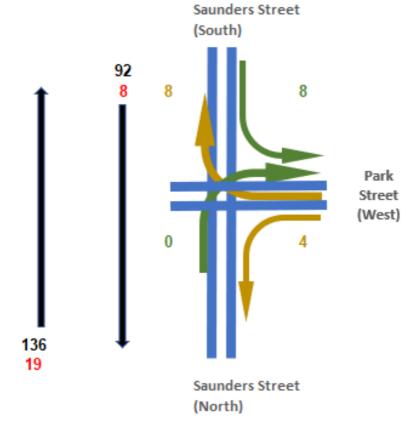
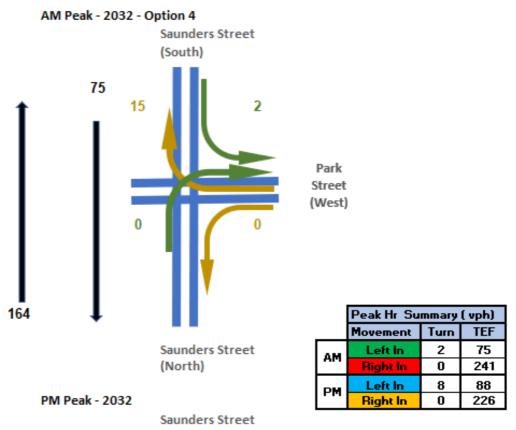
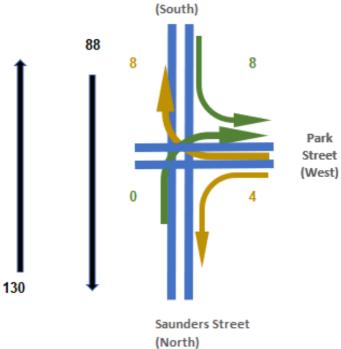




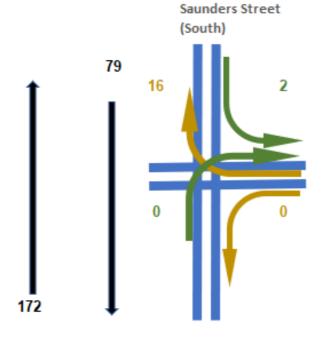
Figure 54 – Saunders / Park Street intersection 2032 & 2042 for Option 4







AM Peak - 2042 - Option 4

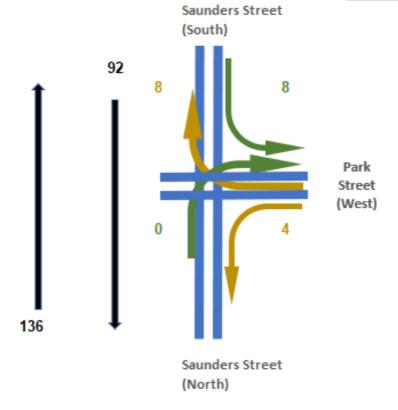


Park Street (West)

Saunders Street (North)

PM Peak - 2042







# 6. Impact on Road Network

As the council road network has low traffic volumes the approach taken to assess the impact of the various treatments on Austin Street has been to assess the two most impacted intersections for the most impacting (Option 1) and least impacting (Option 4) cases for projected traffic activity in 2032 and 2042.

The intersections analysed in detail are:

- Saunders Street / Park Street intersection
- Saunders Street / Gibbons Street intersection

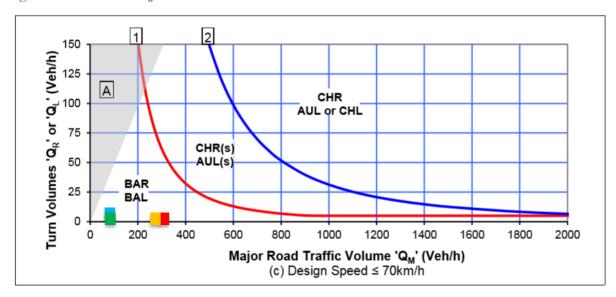


#### 6.1 Saunders / Park Street intersection

# 6.1.1 Austroads Junction Warrant

Figure 55 shows that a Simple intersection layout is adequate for projected traffic movements.

Figure 55 – Austroads junction warrant - Saunders / Park St Intersection 2032 & 2042



# Option 1

2032 2042

	Peak Hr Summary (vph)				
	Movement	Turn	TEF		
АМ	Left In	2	85		
MIT	Right In	0	277		
РМ	Left In	8	96		
- I-I	Right In	0	252		

	Peak Hr Summary (vph)			
	Movement Turn TEF			
АМ	Left In	2	89	
#IT	Right In	0	290	
PM Left In		8	100	
FM	Right In	0	263	

# Option 4

2032 2042

	Peak Hr Su	Peak Hr Summary (vph)				
	Movement Turn TEI					
АМ	Left In	75				
_ Airi	Right In	0	241			
P <b>M</b>	Left In	8	88			
FIN	Right In 0 22					

	Peak Hr Summary (vph)				
	Movement Turn TEF				
АМ	Left In	2	79		
AM	Right In	0	253		
PM	Left In	8	92		
-FM	Right In	0	236		

Figure 83 demonstrates that a CHR and AUL(S) junction layout are technically warranted.



# 6.1.2 Intersection Analysis

As the turning traffic volumes at peak times are low analysis with SIDRA INTERSECTION 9+ Intersection Analysis Software has not been necessary. Figure 56 summarises the Level of Service (LOS) expected for all scenarios. See Appendix H for LOS definitions.

Figure 56 – Saunders / Park Street Intersection Analysis Summary

	Approach		Level of Service			
Intersection			Optio	n 1	Optio	n 4
		2032	2042	2032	2042	
	Saunders (Nth)		A	A	A	Α
	Saunders (Sth)	AM	Α	Α	Α	Α
	Park (East)		Α	Α	Α	Α
Saunders /	Park (West)		Α	Α	A	Α
Park Street	Saunders (Nth)		Α	A	A	Α
	Saunders (Sth)		A	A	A	Α
	Park (East)	PM	A	A	A	Α
	Park (West)		Α	Α	A	Α

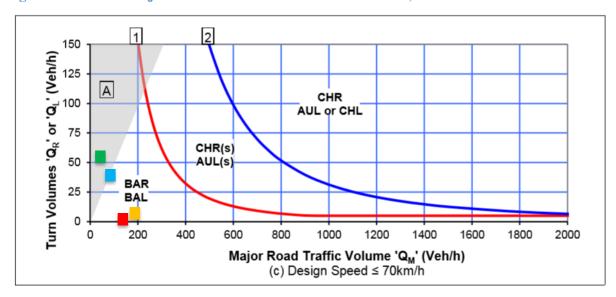


# 6.2 Saunders Street / Gibbons Street Intersection

# **6.2.1** Austroads Junction warrant

Figure 57 shows that a Simple intersection layout is adequate for projected traffic movements.

Figure 57 – Austroads junction warrant - Saunders / Gibbons St, Int. 2032 & 2042



# Option 1

2	N	3	2		

	Peak Hr Summary (vph)					
	Movement	Movement Turn TEF				
АМ	Left In	52				
LAP1	Right In	4	165			
P <b>M</b>	Left In	44	71			
FIII	Right In	187				

2042

	Peak Hr Summary (vph)				
	Movement	Turn	TEF		
АМ	Left In	62	54		
MI'I	Right In	4	172		
PM	Left In	46	74		
ги	Right In	8	196		

# Option 4

2032

	Peak Hr Su	mmary	(vph)
	Movement	Turn	TEF
АМ	Left In	50	52
API	Right In	4	165
PM	Left In	36	71
PM	Right In	8	187

2042

	Peak Hr Su	mmary	(vph)
	Movement	Turn	TEF
АМ	Left In	52	54
API	Right In	4	172
PM	Left In	38	74
FIII	Right In	8	196



#### 6.2.2 Intersection Analysis

The intersection has been analysed with SIDRA INTERSECTION 9+ Intersection Analysis Software to demonstrate the intersection will operate at LOS A for all scenarios. Figure 58 summarises the results. The junction model is attached in Appendix F and the movement summaries are attached in Appendix G. See Appendix H for LOS definitions.

The SIDRA INTERSECTION analysis was undertaken for Option 1 for the AM & PM peaks of 2042 only as this is the worst case and demonstrates the intersection will operate at LOS A.

Figure 58 - Saunders / Gibbons Street Intersection Analysis Summary

			Le	vel of	Servi	ce
Intersection	Approach		Optio	n 1	Optio	n 4
			2032	2042	2032	2042
	Saunders (Nth)		A	A	A	Α
	Saunders (Sth)		Α	Α	Α	Α
	Gibbons (East)	AM	Α	Α	Α	Α
_	Gibbons (West)		Α	Α	Α	Α
Gibbons Street	Saunders (Nth)		Α	Α	A	Α
	Saunders (Sth)	D. 4	Α	A	A	Α
	Gibbons (East)	PM	Α	Α	Α	Α
	Gibbons (West)		Α	Α	Α	Α



#### 6.3 Impacts on road users.

Road user and traffic parameters are summarised in Figure 59 for each road considered.

Figure 59 – Road User and Road Network Summary

				Existi	ng Council Ro	ads		
Road Users		Inglis Street	Saunders Street	Austin Street	Hales Street	Gibbons Street	Jenner Street	Park Street
Function	Infrastructure	Sub Arterial Road	Collector	Local Road	Local Road	Local Road	Residential	Residential
Target LGAT	nct	3 - Collector	3 - Collector	4 - Local	4 - Local	4 - Local	4 - Local	4 - Local
Urban Road Type	ļ t	(11.0m)	(11.0m)	(8.9m)	( 8.9m)	( 8.9m)	(8.9m)	(8.9m)
AADT (vpd)	Ţ.	6,500	2,500	1,050	2,300	1,500	220	300
Speed Limit (km/h)	_ ₹	60	60	50	50	50	50	50
Road Width (m)		13	14.5 to 9.5	14.3 to 8.4	13.7	12 to 10.3	12.3	13.4
PDO crashes/5 yr		13	1	2	0	0	1	2
Casualty crashes/5 yr		4	2	1	1	0	0	0
Pedestrians (ppd)		Some	Low	School & Sport	Low	School	Low	Sport
Pedestrians	Footpath	Both Sides	One Side	One Side	Both Sides	Both Sides	One Side	Both Sides
Public Transport	Bus Route							
	Footpath	Both Sides	One Side	One Side	Both Sides	Both Sides	One Side	Both Sides
Cyclists	Road							
Motorcyclists	Sealed road							
Light Vehicles	Parking	Both	sides	Varies		Both si	des	
	J							
Heavy Vehicles	Design Vehicle.	26m B Double			General Acces	s Vehicle		
All Road Users	Street Lighting				Provided			

# **6.3.1** Public Transport

The proposal will have a minor impact in that Public Transport will prefer Saunders Street. The Wynyard Sports Precinct will be accessed from Austin Street.

# 6.3.2 Delivery Vehicles

The proposal has no impact on delivery vehicles.

# 6.3.3 Pedestrians and Cyclists

All the options to treat Austin Street would reduce crash risk for pedestrians and cyclists. Option 1 provides the best outcome as through traffic is removed.

# 6.3.4 Motorcyclists

The proposal will not disaffect motorcyclists.



# 6.4 Other impacts

#### 6.4.1 Environmental

No applicable environmental impacts were identified in relation to:

- Noise, Vibration and Visual Impact
- Community Severance and Pedestrian Amenity
- Hazardous Loads
- Air Pollution, Dust and Dirt and Ecological Impacts
- Heritage and Conservation values

# 6.4.2 Street Lighting and Furniture

The proposal is not expected to change street lighting requirements.

#### 6.5 Tasmanian Subdivision Guideline Considerations

No issues have been identified.

#### 6.6 Transport Planning Considerations

The proposed options to calm traffic on Austin Street have the impact of reducing or calming traffic activity however the surrounding and adjacent road network has ample capacity as indicated from the traffic assignment and projected traffic volumes presented in section 6 of this report. Option 1 – Converting Austin Street to a No Through Road has the effect of increasing traffic activity on Saunders Street by some 300vpd. This is acceptable as Saunders Street is a Collector Road and suitable standard of road. Saunders Street is a Collector Road in the Council Road Hierarchy.



#### 6.7 Impact on traffic activity

Option 1 – making Austin Street a no though road with a permanent closure South of the Jenner Street junction will have a minor impact on Saunders Street, increasing traffic activity by some 300vpd, see Figure 60.

All the other surrounding roads will not be affected. Figure 60 shows all roads experiencing some minor growth due to assumed annual average exponential growth of 0.5% due to infill development and potential rezoning and subdivision North of the Inglis River.

Figure 60 – Road User and Road Network Summary

							Opti	ion 1
			Traff	ic Counts f	rom 2022 D	ata	2032	2042
Road	Location	Data Source	AM Peak	PM Peak	AADT	Overall AADT	Overall AADT	Overall AADT
			(vph)	(vph)	(vpd)	(vpd)	(vpd)	(vpd)
	At Hales St.	WWC	620	586	6,030			
Inglis St.	At Austin St.	WWC	610	718	6,640	6,500	7,150	7,865
	At Saunders St.	TCS	700	700	7,000			
Austin St.	Jenner St.	WWC	106	132	1,190	1,050	790	830
Austin St.	Inglis St.	WWC	100	80	900	1,050	790	630
	Inglis St.	TCS	250	260	2,550			
Saunders St.	Park St.	WWC	245	254	2,500	2,500	2,940	3,090
Saunuers St.	Jenner St.	TCS	250	235	2,420	2,300	2,340	3,030
	Gibbons St.	WWC	256	216	2,360			
Hales St.	Gibbons St.	WWC	257	192	2,245	2,300	2,415	2,536
naies st.	Inglis St.	WWC	258	225	2,415	2,300	2,415	2,330
Park St.	Saunders St.	WWC	28	34	310	300	315	331
Januar Ct	Saunders St.	TCS	16	29	220	220	221	242
Jenner St.	Austin St.	WWC	16	29	220	220	231	243
	Saunders St.	WWC	162	103	1,320			
Gibbons St.	Austiin St.	TCS	189	119	1,537	1,500	1,575	1,654
	Hales St.	WWC	216	135	1,755			

Estimated from recorded data Estimated from interpolation



#### 6.8 Liveability, Safety and Amenity Guidelines

Guidelines for the safety and amenity of a residential areas include:

- Residential precincts need to be bounded by traffic routes and/or natural barriers to minimise conflict.
- Direct vehicular and pedestrian access should be avoided from single dwelling units onto road with over 2,000 vehicles per day.
- Effective street lengths should be less than 200-250m in order to achieve typical vehicle speeds of 40km/h.
- Cyclist and pedestrian demands should be catered for separately using path or cycle networks.

To maximise the liveability, safety and amenity of the local area, road and street network layout should be such that:

- A minimum of 60% of lots should abut residential streets with less than 300vpd passing traffic.
- A minimum of 80% of lots should abut residential streets with less than 600 vpd passing traffic.
- A maximum of 5% of single dwelling lots should abut residential streets with between 1,000-2,000 vpd passing traffic.
- A maximum of 1% of single dwelling lots should abut local streets or collectors with less than 3,000 vpd passing traffic, and
- No single dwelling lot should abut a route with > 3,000 vpd passing traffic

These guidelines are from TE&M Chapter 2.2: Design of New Urban Network

This study however deals with the existing road network and roads which have some Collector function. Hales and Gibbons Streets are typical examples with AADT of 1,500 vpd or more which provide access to North Wynyard and the Table Cape Primary School.

The inherited road network does not satisfy modern guidelines. However, for the function of the roads and existing traffic activity, are considered acceptable and consistent with the standard of liveability, safety and amenity in similar situations in Tasmania.

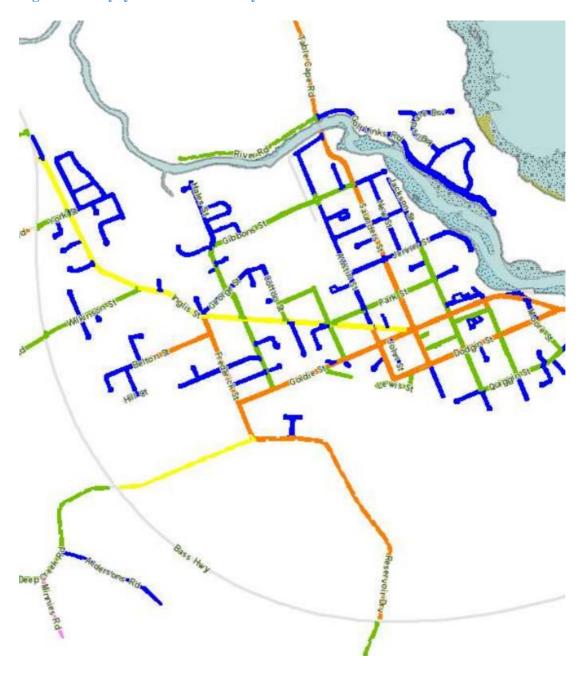


# 7. Road Hierarchy Management

# 7.1 Wynyard Road Hierarchy

Council's Road Hierarchy for Wynard is shown in Figure 61. See Appendix K for more details. The proposed closure of Austin Street is consistent with Council's Road Hierarchy Management Plan which supports use of Saunders Street as a Collector Road.

Figure 61 – Wynyard Road Hierarchy





#### **Local Road Network Objectives**

The WWC Roads Infrastructure Service Level Documentation outline service standards for the local road network. See extracts in Appendix K.

#### Impact of proposed development.

It is considered that proposed development will not disaffect the Council Road Hierarchy.

#### **Collector Road Targets**

The existing road network satisfies LGAT urban road standards. The roads within the study area exceed minimum width requirements.

#### 7.2 Austin and Saunders Street

Austin Street functions primarily as a residential street. The proposed traffic management supports Austin Street's function as a residential street.

Saunders Street has a Collector Road function in the local road network with AADT of 2,500 vpd (2022). The proposal is estimated to increase traffic on Saunders Street at between 35 and 25 vpd during the AM and PM peaks respectively which will increase AADT by some 300vpd. A collector road with AADT of 2,500 vpd can easily absorb 300vpd without disaffecting operation and is estimated to continue to operate at LOS A.

#### 7.3 Pedestrian and Cycle Network

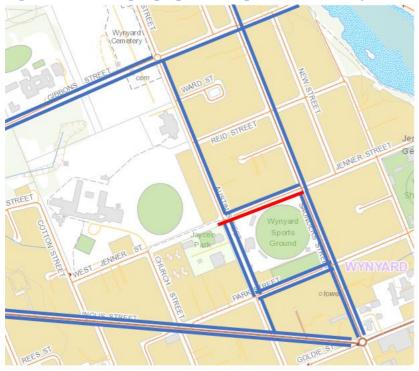
From review of road safety and road hierarchy needs the local road network appears to have adequate pedestrian facilities to cater for the proposal, see Figure 62,

Figure 63 shows the proposed internal pedestrian facilities for the Wynyard Sports Precinct.

It is suggested that Council consider installing a footpath on the Southern side of Jenner Street to complete a pedestrian circuit of the wider precinct as indicated in Figures 62 & 63.

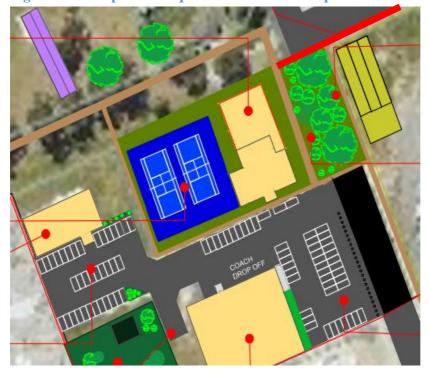


Figure 62 – Existing & proposed Footpaths in the vicinity of the development site.



Existing Footpath Proposed Footpath

Figure 63 – Proposed Footpaths within the development site.





# 8. Stakeholder Consultation

# 8.1 Key Stakeholders

The following key stakeholders have been identified by Council and consulted in accordance with the project brief:

- Table Cape Primary School
- Wynard High School
- School Bus Operators
- Metro
- Emergency Management Tas Police, Fire and Ambulance

#### 8.2 Stakeholder Feedback

Stakeholders were invited to provide feedback on the proposal over the period 1 to 16 Dec 2022 and the feedback is summarised in Figure 64. Details of the feedback received in each case are attached in Appendix M.

Figure 64 – Stakeholder Feedback Summary.

Stakeholder	Fe	edback ( See Appendix M )	TCS Comment
	Contact	Issues	
Wynyard High School 30 Church St, Wynard			
Table Cape Primary School 33A Gibbons St, Wynyard			
Tas Police - Wynyard (Wynyard Police Station)	Dean Snooks	Changed access to on street parking for football matches has implications for Austin Street intersections with Park and Inglis Streets.	There is normally a hiatus with road closures while road users adjust to the changes. Within 6 months most road users are adjusted.
Tas Fire Servcie North West 15 Three Mile Line Rd, Burnie			
Ambulance TAS - North West 2 Strahan St, Burnie			
Metro			
Wynyard Bus Lines Pty Ltd ( 1-5 York St, Wynyard)		Appears to be inadequate turning facilities for buses.	Optimise turning facilities
	Abi Wood	School Bus contracts specify the Austin St route, but this can be adjusted.	Advise DSG of intentions.



# 8.3 Conclusions and recommendations from Stakeholder Feedback

Feedback was received from Tas Police and Wynyard Bus Lines Pty Ltd.

# 8.3.1 Tas Police- Wynyard

There will likely be some surprises for road users when the changes are first implemented, especially for road users seeking parking on Austin Street for football matches. This is a normal outcome. Usually within 6 months road users adjust to significant changes and this is expected to be the case in this situation.

# 8.3.2 Wynyard Bus Lines Pty Ltd

It is agreed that bus turning facilities could be improved to cater for projected needs. User friendly bus access is an important objective. Provision of user-friendly bus turning facilities is required for proper function of Sports Precincts.

It is noted that DSG contracts with School Bus service providers normally specify routes to be used. Advising DSG – Road User Services branch of Councils plans should enable existing contracts to be varied to suite.



# 9. Discussion and Decision Analysis

#### 9.1 Key Objectives

Identified key traffic management objectives for the proposed Wynyard Sports Precinct have been identified from situation appraisal by Council and consultation with key stakeholders. These objectives influence the nature of traffic facilities to be provided and are summarised as follows:

- Minimised through traffic in Austin Street:
  - Need for calm environment for vehicle and pedestrian access to support operation of a sports precinct.
  - o Closeness of nearby High School, Wynard Sports Ground and Bowls Club
  - Use as a collector road to Table Cape Primary when a more suitable collector road is available i.e Saunders Street
- Better pedestrian safety given:
  - o The range of sports catered for in the area
  - o Proportion of vulnerable pedestrians (primary age and elderly)
  - o Proximity of Wynard Sports Ground which generates pedestrian activity
  - Pedestrian activity associated with the Wynyard High School
- Better Traffic Safety
  - Need to consider needs of all road users
- Cost effectiveness
  - Viable return on investment
- Preserve Residential Amenity
- Better vulnerable road user safety
  - o Provide for motorcyclists, bicyclists, and disabled with accessible parking

These objectives have been used to assess effectiveness of various traffic management options for Austin Street.



#### 9.2 Options to achieve key objectives

# 9.2.1 Option 1 – Austin Street No Through Road

This option involves converting a 50m length of Austin Street, South of the Jenner Street junction to a landscaped area as shown in Figure 65.1. The landscaped area provides for pedestrian flow free of through traffic.

Issues to be considered include:

- o cost of infrastructure service work which may be required.
- O Street lighting required for the carpark and pedestrian areas.



Figure 65.1 – Proposed Austin Street Road closure utilising landscaping.

To manage the road closure at the Austin Street Southern access to the precinct a No Through Road Street Sign Blade should be installed at the Austin Street / Park Street intersection. See Figure 65.2 for typical signage. A turning facility is not required. Approaching traffic can circulate around the carpark and exit.



Figure 65.2 – Proposed Austin St. closure signage at Austin St. / Park St. intersection.



To manage the road closure at the Austin Street / Jenner Street corner it is recommended that kerb and channel be retrofitted around the outside of the corner to provide continuity and stormwater drainage combined with a B3 centreline to show all traffic turns at the corner. The B3 line should start some 15m in advance of both approaches to the corner. See Figure 65.3 for typical line marking layout. Residents should be consulted as the B3 Line bans on street parking where applied.

Return to Naturestrip

Figure 65.3 – Proposed Austin St / Jenner St corner traffic management.



#### 9.2.2 Option 2 - Austin Street 10km/h Shared Zone

This option involves converting a length of Austin Street, South of the Jenner Street junction to a mall type environment controlled with regulatory Shared Zone and End Shared Zone signs where pedestrians have Right of Way, see Figure 66. The share space is made to not look like a road and provides urban design opportunities.

Issues to be considered include:

- o cost of installation and infrastructure service work which may be required.
- O Street lighting required for the carpark and pedestrian areas.

Figure 66 - Proposed Austin Street Shared Zone signs.





# 9.2.3 Option 3 – Austin Street Traffic Calming

This option could involve installation of raised plateaus to reduce vehicle speeds while retaining through flow. Can consist of a range of elements to suit the situation. Figure 67 shows a concept for raised plateaus on Austin Street at the Jenner and Park Street intersections.

Issues to be considered include:

- Whether through traffic is acceptable
- Cost of installation

Figure 67 - Proposed Austin Street Traffic Calming with raised plateaus





# 9.2.4 Option 4 – Austin Street 40km/hr Zone Speed Limit

This option involves installation of a 40km/hr zone, see Figure 68 for sign type, on Austin Street for 400m encompassing the Jenner Street junction and Inglis Street intersection to reduce vehicle speeds while retaining through flow.

The issue to consider is whether through traffic is acceptable for proposed operation.





#### 9.3 Decision Analysis

Each of the options have been scored against the key objectives which have also been weighted in terms of relative importance. Minimising through traffic, better pedestrian safety and preserving residential amenity were given the highest weightings.

Option 1 is considered the lowest risk option

Option 2 is potentially an expensive option

Option 3 & 4 do not stop through traffic.

Figure 69 summarises the Decision Analysis. Option 1 scored the highest and is potentially the lowest risk option and is therefore recommended.



Figure 69 – Decision Analysis

Best Austin Street (Wynyard Sports Precinct) Traffic Management

Development & Classification of Objectives and Identification and Evaluation of Alternatives

Decision Statement:

												Alternative solutions	흥	lions				
			ls it?				•	Ö	Option 1	,		Option 2		0 1	Option 3	,	0 :	Option 4
							_	0	No Inrough Rd	=	E E	10km/h Shared Zone		ГаI	Iraffic Calming	₽	Ē	40km/n Speed Limit
		Mand	land Meas Real Class	Real	Class	Meight	score	value	notes	score	value	notes	score	value	notes	score	value	notes
	Objective	атогу	atory urable istic	istic	M/W													
7	Minimise through traffic in Austin St.	%	Yes	Yes	Want	10	10	100	Yes Want 10 10 100 Very effective	9	09	Some effect	5	20	Some effect	3	30	Little effect
2	Better Pedestrian Safety	2	Yes	Yes	Want	10	10	10 10 100	Very effective	8	80	Effective	7	20	Effective	9	09	Some effect
က	Traffic Safety	2	Yes	Yes	Want	5	8	40	Improved	7	35	Improved	7	35	Improved	5	25	Some effect
4	Low Cost and Cost Effective	2	Yes	Yes	Want	5	4	20	Some Cost	-	5	High Cost	9	30	Some Cost	10	20	Low Cost
2	5 Preserve Residential Amenity	No	Yes	Yes	Want	10	10	100	Very effective	8	80	Effective	7	20	Effective	9	09	Some effect
9	6 Better Vulnerable Road User Safety	No	Yes	Yes	Yes Yes Want	5	8	40	Effective	8	40	Effective	7	35	Effective	9	30	Some effect
ď	Total Score							400		,	300			290			255	
							l						l			l		

Assess Risks

Option 1 has very low risk
Option 2 is potentially expensive converting the road surface to a mall type appearance
Option 3 will still allow through traffic
Option 4 will not discourage through traffic

Option 1

Decision



# 10. Waratah Wynyard Int. Plan. Scheme 2013

#### Traffic Generating Use and Parking Code E9

#### E9.5.1 Provision for parking

#### Acceptable Solution A1

Provision for parking must be - (a) the minimum number of on-site vehicle parking spaces must be in accordance with applicable standard for the use class as shown in the Table to this Code (Table E9.1 Provision of Parking Spaces and Loading Areas)

No new facilities are proposed.

The site has 70 existing off street car parking spaces.

The proposal provides for 85 off street car parking spaces.

A1 is satisfied.

# E9.5.2 Provision for loading and unloading of vehicle

#### Acceptable Solution A1

There must be provision within a site for

- (a) on-site loading area in accordance with the requirement in the Table this Code (Table E9.1 Provision of Parking); and
- (b) passenger vehicle pick-up and set-down facilities for business, commercial, educational and retail use at the rate of 1 space for every 50 parking spaces

Applicable rates from Table E9.1 for the proposed land uses:

**Sports and recreation** - 1 small rigid truck space.

Proposal provides a small rigid truck space. A1 is satisfied.



#### E9.6.1 Design of vehicle parking and unloading

#### Acceptable Solution A1.1

All development must provide for the collection, drainage and disposal of stormwater.

A1 is satisfied as proposed carparking is designed for collection & drainage of stormwater.

#### Acceptable Solution A1.2

Other than for development for a single dwelling in the General Residential, Low Density Residential, Urban Mixed Use and Village zones, the layout of vehicle parking area, loading area, circulation aisle and manoeuvring area must —

- (a) Be in accordance with AS/NZS 2890.1 (2004) Parking Facilities Off Street Car Parking; Satisfied, see Figure 70.
- (b) Be in accordance with AS/NZS2890.2 (2002) Parking Facilities Off Street Commercial Vehicles; Satisfied.
- (c) Be in accordance with AS/NZS 2890.3 1993) Parking Facilities Bicycle Parking Facilities; Satisfied.
- (d) Be in accordance with AS/NZS 2890.6 Parking Facilities Off Street Parking for People with Disabilities; Satisfied.
- (e) Each parking space must be separately accessed from the internal circulation aisle within the site; Satisfied.
- (f) Provide for the forward movement and passing of all vehicles within the site other than if entering or leaving a loading or parking space; Satisfied.
- (g) Be formed and constructed with compacted sub-base and an all-weather surface. Satisfied.

#### A1.2 is satisfied.



Figure 70 – Proposed off street parking



- Acceptable parking spaces are shown as 2.5m wide by 5.4m long.
- Acceptable circulating aisle width shown as 6.2m wide.
- Need to show small rigid truck parking space.
- Need to show at least 2 accessible parking spaces



## 11. Recommendations and Conclusions

This traffic impact assessment has assessed the proposed Wynyard Sports Precinct development and associated traffic management options for Austin Street.

All the surrounding intersections potentially impacted by the proposal have been surveyed with traffic surveys by WWC to establish baseline data including Metrocount traffic data on the road links to verify through volumes and 85<sup>th</sup> percentile speeds.

Intersections, links surveyed, traffic data obtained and projections for Option 1 are summarised in Figure 71.

Figure 71 – Impact of Option 1 on traffic activity

							Opti	ion 1
			Traff	ic Counts f	rom 2022 D	ata	2032	2042
Road	Location	Data Source	AM Peak	PM Peak	AADT	Overall AADT	Overall AADT	Overall AADT
			(vph)	(vph)	(vpd)	(vpd)	(vpd)	(vpd)
	At Hales St.	WWC	620	586	6,030			
Inglis St.	At Austin St.	WWC	610	718	6,640	6,500	7,150	7,865
	At Saunders St.	TCS	700	700	7,000			
Austin St.	Jenner St.	WWC	106	132	1,190	1.050	790	830
Austin St.	Inglis St.	WWC	100	80	900	1,050	790	830
	Inglis St. Park St. Jenner St.	TCS	250	260	2,550			
Saunders St.		WWC	245	254	2,500	2 500	2.040	2 000
Saunders St.		TCS	250	235	2,420	2,500	2,940	3,090
	Gibbons St.	WWC	256	216	2,360			
Hales St.	Gibbons St.	WWC	257	192	2,245	2 200	2.415	2 526
naies st.	Inglis St.	WWC	258	225	2,415	2,300	2,415	2,536
Park St.	Saunders St.	WWC	28	34	310	300	315	331
Januar St	Saunders St.	TCS	16	29	220	220	221	242
Jenner St.	Austin St.	WWC	16	29	220	220	231	243
	Saunders St.	WWC	162	103	1,320			
Gibbons St.	Austiin St.	TCS	189	119	1,537	1,500	1,575	1,654
	Hales St.	WWC	216	135	1,755			

Estimated from recorded data Estimated from interpolation



#### 11.1 Traffic Capacity

#### Intersection standards

Austroads junction warrants were reviewed for the most impacted intersection:

- Saunders / Gibbons Street intersection
- Saunders / Park Street intersection

The intersection layouts were found to be adequate for all scenarios, see Figures 51 - 54.

#### Intersection capacity

The intersections were all found to be operating with low traffic volumes in the range where there are no traffic capacity issues. The existing intersection and road standards were found to be suitable for the level of traffic activity and estimated to continue to operate at LOS A by 2042.

#### **Pedestrian capacity**

Adequate pedestrian facilities are provided. It is suggested that Council consider installing a footpath along the Southern side of Jenner Street to complete a pedestrian circuit of the wider sports precinct in the area

#### 11.2 Traffic Safety

Traffic safety has been assessed in terms of crash history, road safety review and Austroads Safe System Assessment. Findings are summarised as follows:

#### **5 Year Reported Crash History**

Reported crash history demonstrates a normal crash rate for urban residential environment with no evidence of any crash propensities.

#### **Road Safety Review**

From site observations some line-of-sight restrictions due to trees and shrubs were identified as follows. These issues are considered minor and can be rectified by pruning and or removal of vegetation.

#### **Austroad Safe System Assessment (SSA)**

From the SSA methodology crash risk at all the intersections and along all the links is assessed as very low as traffic activity is low, the speed environment is low and the road infrastructure and intersection standards are high.



#### 11.3 Traffic Speeds

Traffic flow and speeds on the roads within the study area are summarised in Figure 72.

Figure 72 – Waratah Wynyard Council Traffic Flow & Speed Survey Data (2022)

	Average	Traffic	Speeds
Road	AADT		85th%
	(vpd)	Limit (km/h)	
	(vpu)	(KIII/II)	(KIII/II)
Inglis St.	6500	60	54.36
Austin St.	1050	50	59.40
Saunders St.	2500	60	63.00
Hales St.	2300	50	
Park St.	300	50	42.48
Jenner St.	220	50	50.58
Gibbons St.	1500	50	58.86

The 85<sup>th</sup> Percentile Speed is the speed which 85% of traffic using the road operate at or below. 15% of traffic using the road exceed the 85<sup>th</sup> Percentile Speed.

The 85<sup>th</sup> Percentile traffic speed data provides evidence of reasonable compliance with the Speed Limits on each of the roads within the study area. It is also noted that the:

- 85<sup>th</sup> Percentile speed on Austin St is 59.4 km/h within a 50km/h Speed Limit.
- 85<sup>th</sup> Percentile speed on Saunders St is 63 km/h within a 60km/h Speed Limit.

It is suggested that the proposal will enable transfer of through traffic to Saunders Street which has a speed limit more in keeping with demand than Austin Street. This transfer is unlikely to increase the 85<sup>th</sup> Percentile Speed on Saunders Street.



#### 11.4 Austin Street Sports Precinct

#### **Traffic Management objectives**

- Minimised through traffic in Austin Street:
- Better pedestrian safety given:
- Better Traffic Safety
- Cost effectiveness
- Preserve Residential Amenity
- Better vulnerable road user safety

#### **Identified options**

- Option 1 Austin Street No Through Road
- Option 2 Austin Street 10km/h Shared Zone
- Option 3 Austin Street Traffic Calming
- Option 4 Austin Street 40km/hr Zone Speed Limit

#### **Decision Analysis**

Each option was scored against the key objectives and Option 1 scored the highest with the lowest risk profile and is recommended.

#### 11.5 Stakeholder Engagement

Key stakeholders were consulted regarding their views on the proposal. Feedback received is summarised in Figure 64.

The issued with bus friendly access to the Sport Precinct can be resolved in the final design process.



#### 11.6 Road Hierarchy Management

The proposed Option1 results in a transfer of some 300vpd from Austin Street to Saunders Street, see Figure 50 and the following AADT summaries pre and post implementation of Option 1. This increase is supported by the Wynyard Road Hierarchy which shows Saunders Street as the Collector Road serving area.

#### 2022 AADT (pre implementation of Option 1)

- Austin Street 1,050 vpd
- Saunders Street 2,500 vpd

#### 2023 AADT (post implementation of Option 1)

- Austin Street 750 vpd
- Saunders Street 2,800 vpd

These traffic activity levels are within guidelines for residential liveability, safety and amenity of the local area, see Section 6.8 of this report.

#### 11.7 Waratah Wynyard Interim Planning Scheme 2013

Evidence is provided to demonstrate compliance with Traffic Generating Use and Parking Code E9.

#### 11.8 Recommendations:

#### Traffic Safety Review

- Clear sight lines at Austin Street / Gibbons Street roundabout
  - o Western approach, see Figure 21a
  - o Northern approach, see Figure 21b
  - o Eastern approach, see Figure 21d
- Maintain clear sight lines at Inglis Street / Saunders Street roundabout
  - o Northern approach, see Figure 31a
  - o Southern approach, see Figure 31b
  - o Western approach, see Figure 31d



- Clear sight lines at Saunders Street / Jenner Street intersection
  - o Looking right from Jenner Street along Saunders Street, see Figure 35
- Clear sight lines at Saunders Street / Gibbons Street intersection
  - o Looking left from Gibbons Street along Saunders Street, see Figure 40

#### Austin Street Traffic Management

- Subject to completion of the Regulatory Road Closure process in accordance with the Local Government Highway Act 1982, see extract attached in Appendix N, proceed with Option 1.
- Make Austin Street a No Through Road and modify the Austin Street / Jenner Street corner by retrofit of kerb & channel and B3 centreline, see Section 9.2.1 and Figures 95.2 and 95.3.
- Consult with residents concerning management of the Austin Street ./ Jenner Street corner as there is some loss of on street parking associated with installation of the B3 centreline.
- Consult with Wynard Bus Lines on the type and size of buses / coaches likely to access and or park within the Wynyard Sports Precinct.
- Design for the bus / coach access and parking agreed by Council and prepare preliminary design plans to suit including provision of internal circulation width for swept path of public transport, agreed bus zone provision and adjustment of the carpark design for user friendly access for all.

#### Suggestions:

• Improve pedestrian connectivity around wider Wynyard Sport Precinct by providing footpath along the Southern side of Jenner Street.

Overall, it has been concluded that the proposed development will not create any traffic issues and traffic will continue to operate safely and efficiently on the existing road network. Based on the finding of this report and subject to the recommendations above, the proposal is supported on traffic grounds.



## **Appendices**



## **Appendix A - Wynyard Sports Precinct Concept**





## **Appendix B - WWC Turning Count Surveys**

#### **Austin / Jenner AM**

#### Intersection Count Summa

Location: Austin Street at Jenner Street, Wynyard

GPS Coordinates: Lat=-41.443828, Lon=147.141768

Date: 2022-08-26 Day of week: Friday Weather: Fine

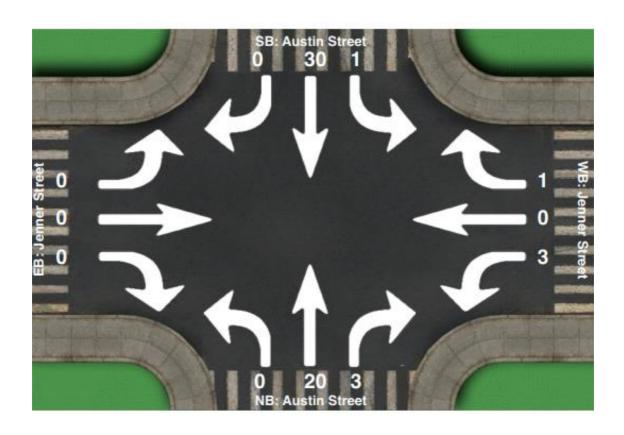
Analyst: Richard Burk

#### **Austin Street**

- AM Peak 106 vph
- PM Peak 132 vph
- Estimated AADT 1,190 vpd

#### **Jenner Street**

- AM Peak 16 vph
- PM Peak 29 vph
- Estimated AADT 220 vpd



### Intersection Count Summary

08:21 - 08:51

	Sc	SouthBound			estbour	nd	N	orthbou	nd	E	astbour	nd	Total
Ubrasson publication	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	1	30	0	3	0	1	0	20	3	0	0	0	58



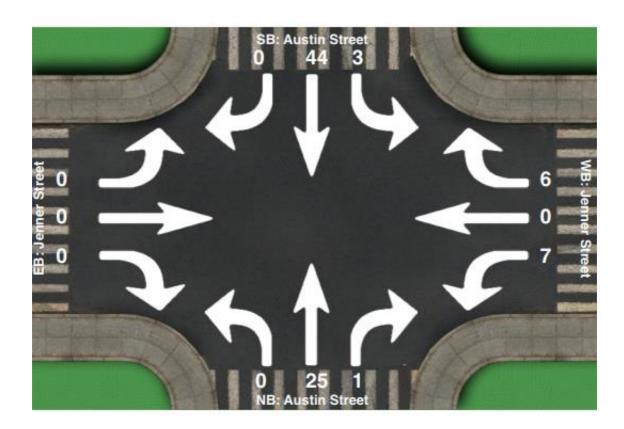
#### Austin / Jenner PM

## **Intersection Count Summary**

Location: Austin Street at Jenner Street, Wynyard

GPS Coordinates: Lat=-41.443828, Lon=147.141768

Date: 2022-08-26
Day of week: Friday
Weather: Overcast
Analyst: Gary Neil



## **Intersection Count Summary**

14:36 - 15:10

	Sc	SouthBound			estbour	d	No	orthbour	nd	E	astboun	d	Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	3	44	0	7	0	6	0	25	1	0	0	0	86



#### Inglis / Hales AM

#### Intersection Count Sumn

Location: Hales Street at Inglis Street, Wynyard GPS Coordinates: Lat=-41.443828, Lon=147.141768

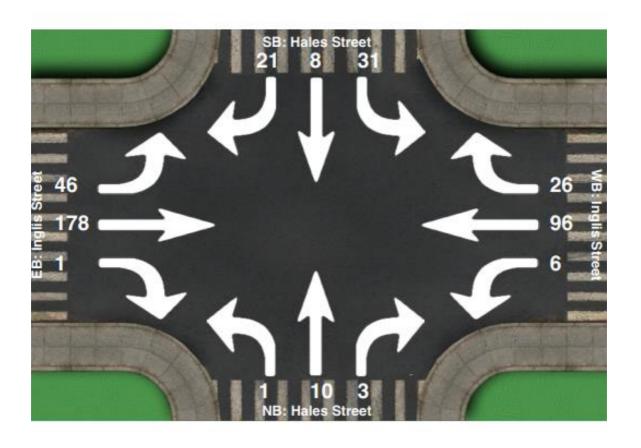
Date: 2022-08-31
Day of week: Wednesday
Weather: Sunny
Analyst: Gary Neil

#### **Inglis Street**

- AM Peak 620 vph
- PM Peak 586 vph
- Estimated AADT 6,030 vpd

#### **Hales Street**

- AM Peak 258 vph
- PM Peak 225 vph
- Estimated AADT 2,415 vpd



### **Intersection Count Summary**

08:17 - 08:50

	Sc	SouthBound		W	estbour	d	N	orthbou	nd	E	astboun	p	Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Total
Vehicle Total	31	8	21	6	96	26	1	10	3	46	178	1	427



#### Inglis / Hales PM

## **Intersection Count Summary**

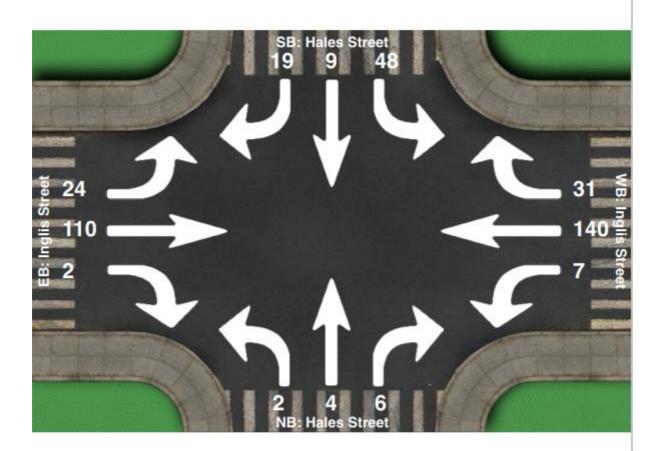
Location: Hales Street at Inglis Street, Wynyard GPS Coordinates: Lat=-41.443828, Lon=147.141768

Date: 2022-08-31

Day of week: Wednesday

Weather: Sunny

Analyst: Gary Neil



## **Intersection Count Summary**

14:35 - 15:10

	Sc	SouthBound			estboun	d	No	orthbou	nd	E	astbour	d	Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Total
Vehicle Total	48	9	19	7	140	31	2	4	6	24	110	2	402



#### Inglis / Austin AM

### Intersection Count Su

Location: Austin Street at Inglis Street, Wynyard

GPS Coordinates: Lat=-41.443828, Lon=147.141768

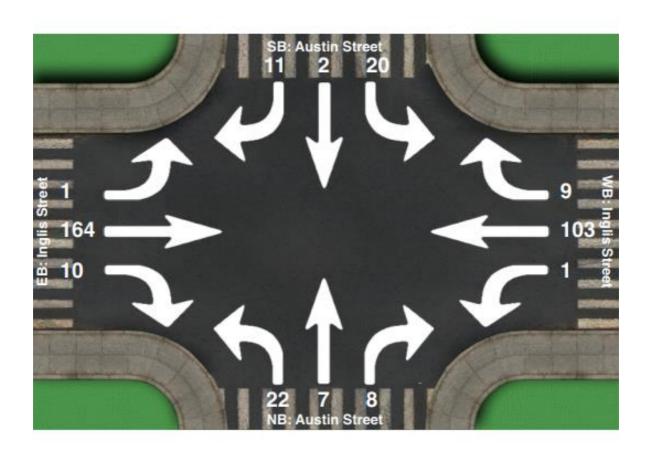
Date: 2022-09-02
Day of week: Friday
Weather: Sunny
Analyst: Gary Neil

#### **Inglis Street**

- AM Peak 610 vph
- PM Peak 718 vph
- Estimated AADT 6,640 vpd

#### **Austin Street**

- AM Peak 100 vph
- PM Peak 80 vph
- Estimated AADT 900vpd



### **Intersection Count Summary**

08:19 - 08:50

	Sc	outhBou	ind	W	estbour	nd	N	orthbou	nd	E	astbour	bi	Total
	Left	Thru	Right	Total									
Vehicle Total	20	2	11	1	103	9	22	7	8	1	164	10	358

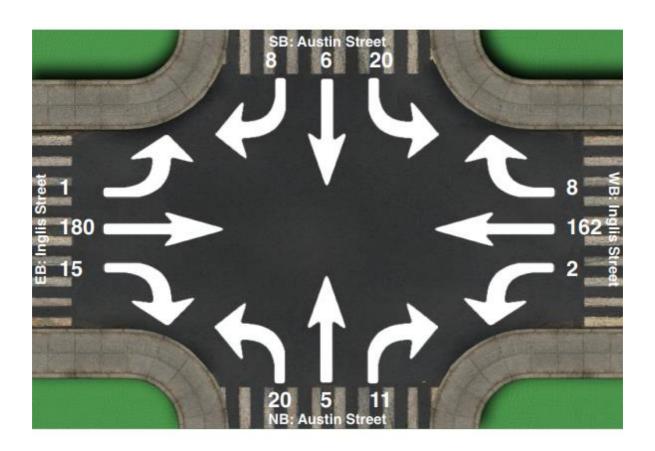


#### Inglis / Austin PM

## **Intersection Count Summary**

Location: Austin Street at Inglis Street, Wynyard GPS Coordinates: Lat=-41.443828, Lon=147.141768

Date: 2022-09-02
Day of week: Friday
Weather: Sunny
Analyst: Gary Neil



## **Intersection Count Summary**

14:38 - 15:10

	So	SouthBound		W	estbour	nd	N	orthbou	nd	E	astbour	nd	Takal
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Total
Vehicle Total	20	6	8	2	162	8	20	5	11	1	180	15	438



## Inglis / Saunders AM Inglis / Saunders PM



#### Saunders / Park AM

#### Intersection Count Sumr

Location: Saunders Street at Park Street, Wynyard

GPS Coordinates: Lat=-41.443828, Lon=147.141768

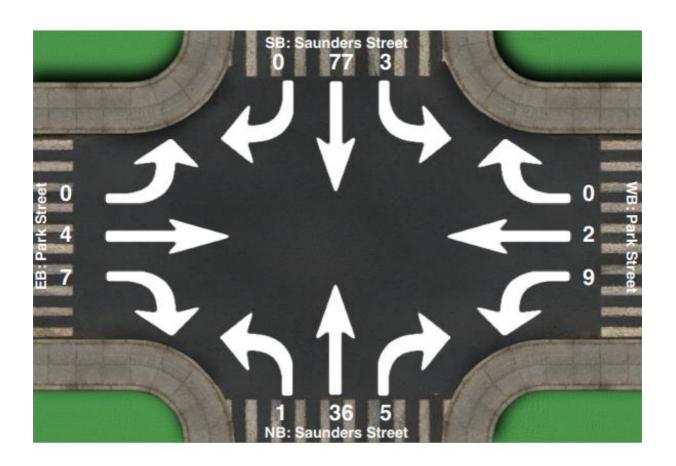
Date: 2022-09-01
Day of week: Thursday
Weather: Raining
Analyst: Gary Neil

#### **Saunders Street**

- AM Peak 245 vph
- PM Peak 254 vph
- Estimated AADT 2,500vpd

#### **Park Street**

- AM Peak 28 vph
- PM Peak 34 vph
- Estimated AADT 310vpd



## Intersection Count Summary

08:17 - 08:50

	So	SouthBound			estboun	d	No	orthbou	nd	E	astbour	nd	Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Total
Vehicle Total	3	77	0	9	2	0	1	36	5	0	4	7	144



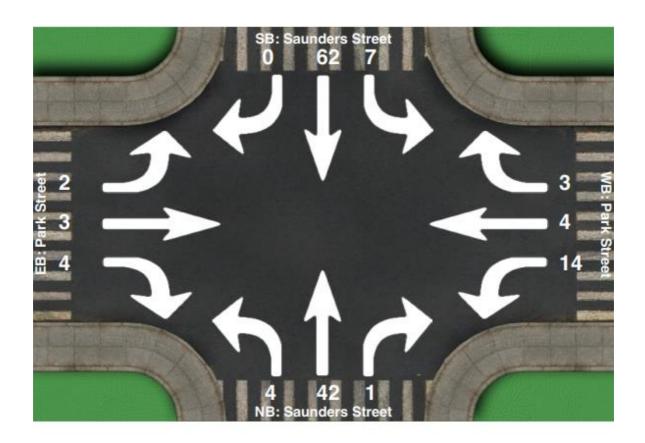
#### Saunders / Park PM

## **Intersection Count Summary**

Location: Saunders Street at Park Street, Wynyard

GPS Coordinates: Lat=-41.443828, Lon=147.141768

Date: 2022-09-01
Day of week: Thursday
Weather: Overcast
Analyst: Gary Neil



## **Intersection Count Summary**

14:39 - 15:09

	Sc	SouthBound			estboun	d	No	rthbour	nd	E	astbour	d	Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	iotai
Vehicle Total	7	62	0	14	4	3	4	42	1	2	3	4	146



Saunders / Jenner AM

Saunders / Jenner PM

#### **Saunders Street**

- AM Peak vph
- PM Peak vph
- Estimated AADT vpd

#### **Jenner Street**

- AM Peak vph
- PM Peak vph
- Estimated AADT vpd



#### Saunders / Gibbons AM

#### Intersection Count Sumn

Location: Saunders Street at Gibbons Street, Wynyard

GPS Coordinates: Lat=-41.443828, Lon=147.141768

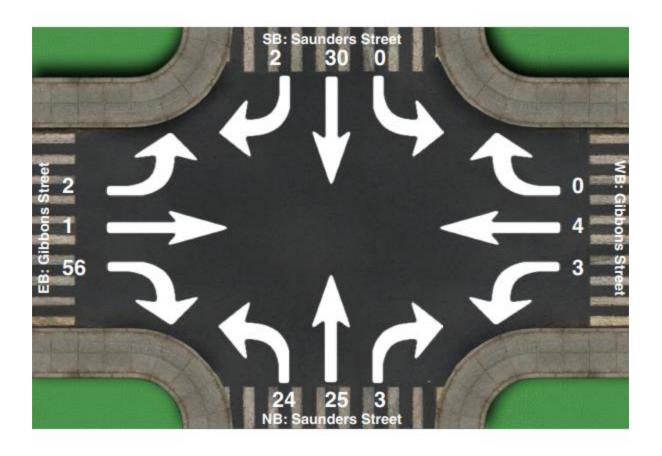
Date: 2022-08-30
Day of week: Tuesday
Weather: Raining
Analyst: Gary Neil

#### **Saunders Street**

- AM Peak 256 vph
- PM Peak 216 vph
- Estimated AADT 2,360vpd

#### **Gibbons Street**

- AM Peak 162 vph
- PM Peak 103 vph
- Estimated AADT 1,320vpd



### Intersection Count Summary

08:16 - 08:49

	S	SouthBound			estbour	nd	N	orthbou	nd	E	astbour	nd	Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	IOIAI
Vehicle Total	0	30	2	3	4	0	24	25	3	2	1	56	150



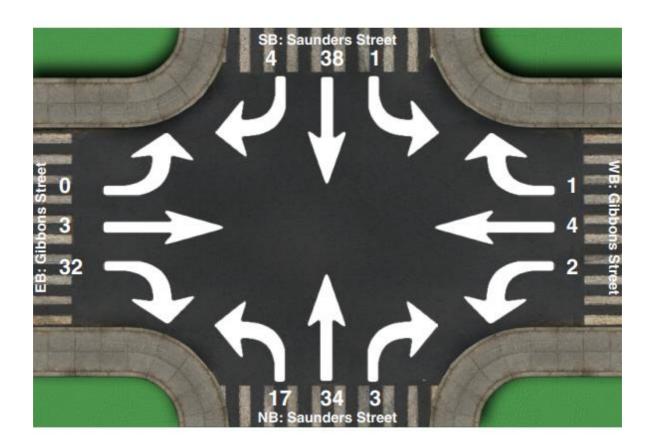
#### Saunders / Gibbons PM

## **Intersection Count Summary**

Location: Saunders Street at Gibbons Street, Wynyard

GPS Coordinates: Lat=-41.443828, Lon=147.141768

Date: 2022-08-30
Day of week: Tuesday
Weather: Overcast
Analyst: Gary Neil



## **Intersection Count Summary**

14:35 - 15:10

Ċ.	Sc	outhBou	ind	We	estboun	d	No	rthbour	nd	E	astbour	ıd	Tatal
	Left	Thru	Right	Total									
Vehicle Total	1	38	4	2	4	1	17	34	3	0	3	32	139



#### Hales / Gibbons AM

#### Intersection Count Sumi

Location: Hales Street at Gibbons Street, Wynyard

GPS Coordinates: Lat=-41.443828, Lon=147.141768

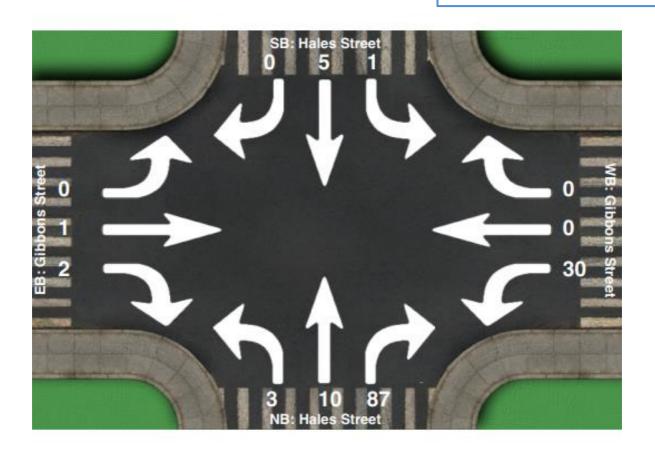
Date: 2022-08-29
Day of week: Monday
Weather: Sunny
Analyst: Gary Neil

#### **Hales Street (West)**

- AM Peak 257 vph
- PM Peak 192 vph
- Estimated AADT 2,245vpd

#### **Gibbons Street**

- AM Peak 216 vph
- PM Peak 135 vph
- Estimated AADT 1,755vpd



## Intersection Count Summary

08:17 - 08:49

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Iotai
Vehicle Total	1	5	0	30	0	0	3	10	87	0	1	2	139



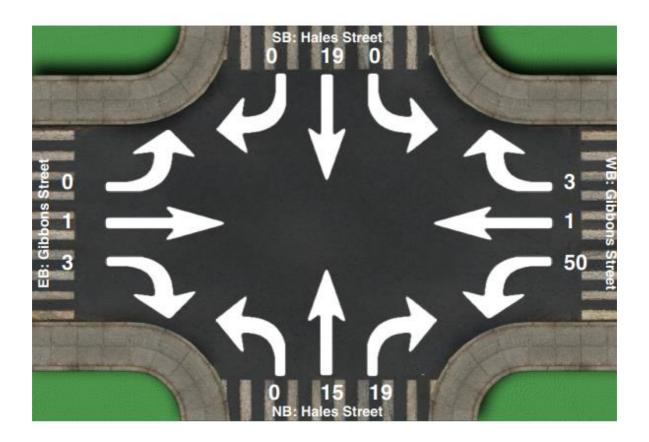
#### Hales / Gibbons PM

## **Intersection Count Summary**

Location: Hales Street at Gibbons Street, Wynyard

GPS Coordinates: Lat=-41.443828, Lon=147.141768

Date: 2022-08-29
Day of week: Monday
Weather: Showers
Analyst: Gary Neil



## **Intersection Count Summary**

14:36 - 15:09

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Total
Vehicle Total	0	19	0	50	1	3	0	15	19	0	1	3	111



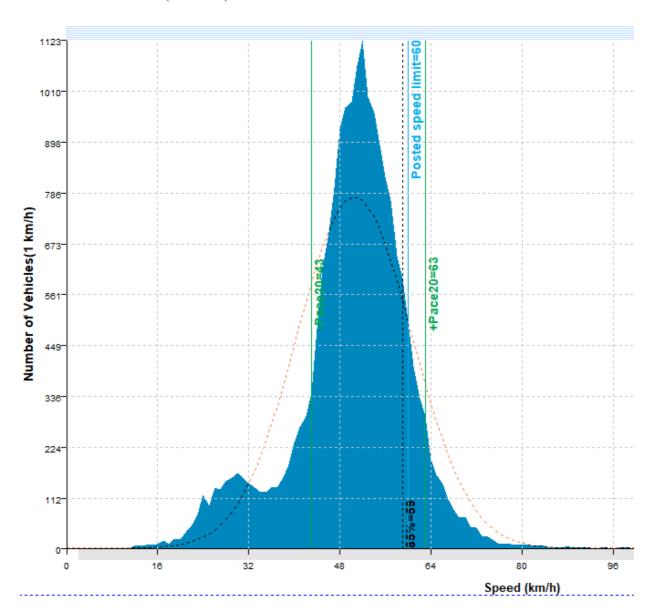
# Appendix C - WWC Traffic Survey Data Austin Street – Power Pole 510206

#### **Speed Histogram**

SpeedHist-12 (Metric) Site: Austin St.0.0N Description: Power Pole #510208

Filter time: 0:00 Friday, 25 November 2022 => 16:19 Friday, 16 December 2022 Filter: Cls(1-12) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Lane(0-16)

Scheme: Vehicle classification (AustRoads94)





#### MetroCount

## MetroCount Traffic Executive Speed Histogram

#### SpeedHist-12 -- English (ENA)

**Datasets:** 

Site: [Austin St] Power Pole #510206

Attribute: 5006

Direction: 1 - North bound, A trigger first. Lane: 0

Survey Duration: 0:00 Friday, 25 November 2022 => 16:19 Friday, 16 December 2022,

Zone:

File: Austin Street 6052\_161222.EC0 (Plus )

Identifier: QG68E9VB MC5900-X13 (c)MetroCount 09Nov16

Algorithm: Factory default axle (v5.08)

Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 0:00 Friday, 25 November 2022 => 16:19 Friday, 16 December 2022 (21.6803)

Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Speed range: 10 - 160 km/h.

Direction: North, East, South, West (bound), P = North, Lane = 0-16

Separation: Headway > 0 sec, Span 0 - 100 metre

Name: Default Profile

Scheme: Vehicle classification (AustRoads94)

Units: Metric (metre, kilometre, m/s, km/h, kg, tonne)

In profile: Vehicles = 19600 / 19625 (99.87%)

#### Speed Statistics

Direction: NS Vehicles = 19600

Posted speed limit = 60 km/h, Exceeding = 2620 (13.37%), Mean Exceeding = 64.90 km/h

Maximum = 119.5 km/h, Minimum = 10.7 km/h, Mean = 50.6 km/h 85% Speed = 59.40 km/h, 95% Speed = 64.61 km/h, Median = 51.66 km/h

20 km/h Pace = 43 - 63, Number in Pace = 14920 (76.12%) Variance = 101.76, Standard Deviation = 10.09 km/h



## **Gibbon Street - Power Pole 124319**

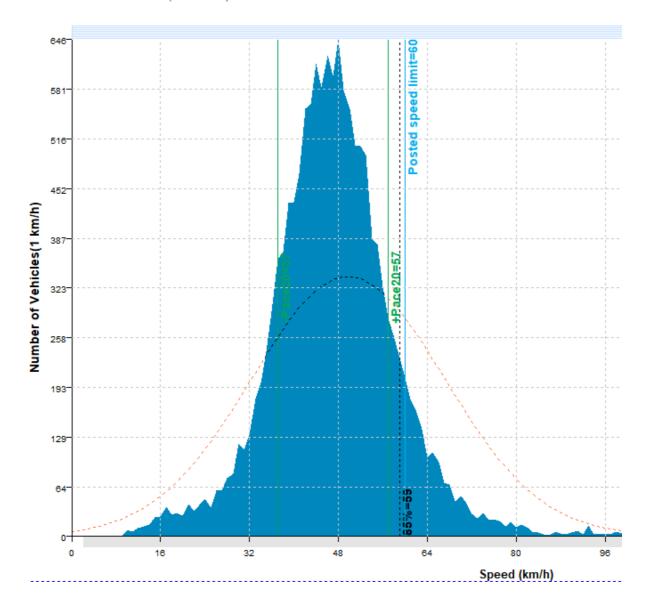
#### Speed Histogram

SpeedHist-13 (Metric) Site: Gibbon St.0.0N

Description: Power Pole 124319

Filter time: 0:00 Friday, 25 November 2022 => 16:18 Friday, 16 December 2022 Filter: Cls(1-12) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Lane(0-16)

Scheme: Vehicle classification (AustRoads94)





#### MetroCount

### MetroCount Traffic Executive Speed Histogram

#### SpeedHist-13 -- English (ENA)

Datasets:

Site: [Gibbon St] Power Pole 124319

Attribute: 5010

Direction: 1 - North bound, A trigger first. Lane: 0

Survey Duration: 0:00 Friday, 25 November 2022 => 16:18 Friday, 16 December 2022,

Zone:

File: GIBBONS\_6057\_161222.EC0 (Plus )

Identifier: QH222PMC MC5900-X13 (c)MetroCount 09Nov16

Algorithm: Factory default axle (v5.08)

Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 0:00 Friday, 25 November 2022 => 16:18 Friday, 16 December 2022 (21.6795)

Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Speed range: 10 - 160 km/h.

Direction: North, East, South, West (bound), P = North, Lane = 0-16

Separation: Headway > 0 sec, Span 0 - 100 metre

Name: Default Profile

Scheme: Vehicle classification (AustRoads94)

Units: Metric (metre, kilometre, m/s, km/h, kg, tonne)

In profile: Vehicles = 14653 / 14857 (98.63%)

#### Speed Statistics

Direction: NS Vehicles = 14653

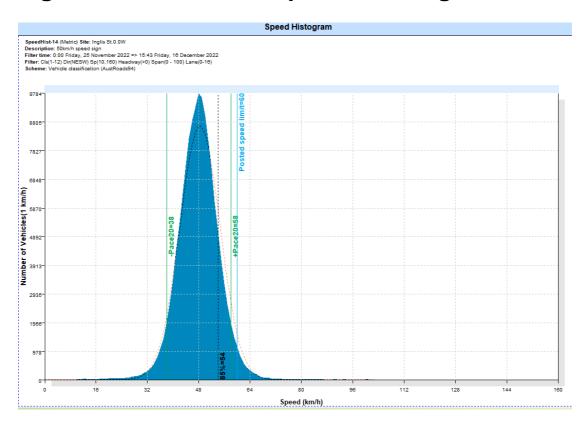
Posted speed limit = 60 km/h, Exceeding = 1943 (13.26%), Mean Exceeding = 79.98 km/h

Maximum = 159.6 km/h, Minimum = 10.3 km/h, Mean = 49.7 km/h 85% Speed = 58.86 km/h, 95% Speed = 70.92 km/h, Median = 47.70 km/h

20 km/h Pace = 37 - 57, Number in Pace = 9982 (68.12%) Variance = 301.94, Standard Deviation = 17.38 km/h



## Inglis Street – 50km/h Speed Limit Sign





#### MetroCount

### MetroCount Traffic Executive Speed Histogram

#### SpeedHist-14 -- English (ENA)

Datasets:

Site: [Inglis St] 50km/h speed sign

Attribute: 1498

Direction: 4 - West bound, A trigger first. Lane: 0

Survey Duration: 0:00 Friday, 25 November 2022 => 15:43 Friday, 16 December 2022,

Zone:

File: INGLIS\_6054\_161222.EC0 (Plus )

Identifier: QH37D42Z MC5900-X13 (c)MetroCount 09Nov16

Algorithm: Factory default axle (v5.08)

Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 0:00 Friday, 25 November 2022 => 15:43 Friday, 16 December 2022 (21.6552)

Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Speed range: 10 - 160 km/h.

Direction: North, East, South, West (bound), P = West, Lane = 0-16

Separation: Headway > 0 sec, Span 0 - 100 metre

Name: Default Profile

Scheme: Vehicle classification (AustRoads94)

Units: Metric (metre, kilometre, m/s, km/h, kg, tonne)

In profile: Vehicles = 135893 / 135962 (99.95%)

#### Speed Statistics

Direction: EW Vehicles = 135893

Posted speed limit = 60 km/h, Exceeding = 4117 (3.030%), Mean Exceeding = 63.31 km/h

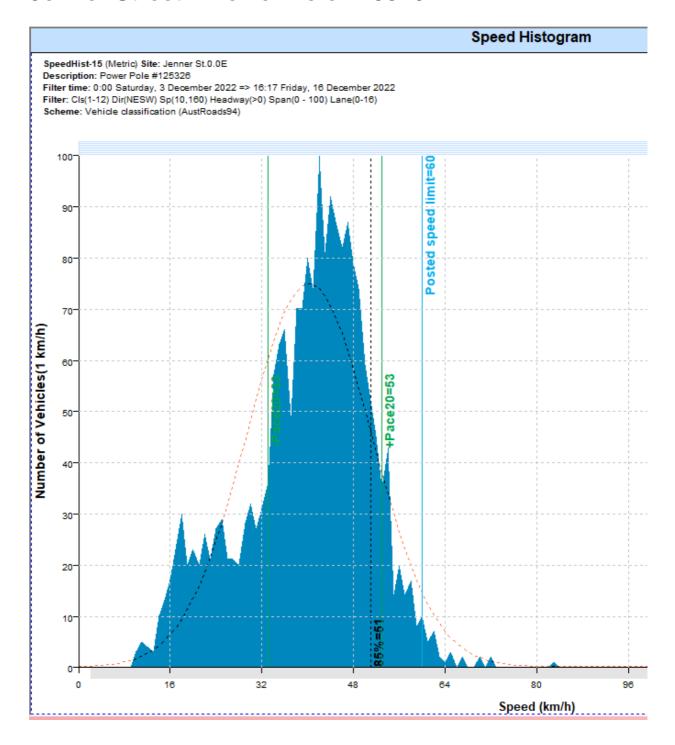
Maximum = 132.5 km/h, Minimum = 10.3 km/h, Mean = 48.4 km/h 85% Speed = 54.36 km/h, 95% Speed = 58.32 km/h, Median = 48.42 km/h

20 km/h Pace = 38 - 58, Number in Pace = 122749 (90.33%)

Variance = 39.17, Standard Deviation = 6.26 km/h



## Jenner Street - Power Pole 125326





#### MetroCoun<sup>a</sup>

## MetroCount Traffic Executive Speed Histogram

#### SpeedHist-15 -- English (ENA)

Datasets:

Site: [Jenner St] Power Pole #125326

Attribute: 5009

Direction: 2 - East bound, A trigger first. Lane: 0

Survey Duration: 0:00 Saturday, 3 December 2022 => 16:17 Friday, 16 December 2022,

Zone:

File: JENNER 6056 161222.EC0 (Plus )

Identifier: QG76NMWM MC5900-X13 (c)MetroCount 09Nov16

Algorithm: Factory default axle (v5.08)

Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 0:00 Saturday, 3 December 2022 => 16:17 Friday, 16 December 2022 (13.6786)

Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Speed range: 10 - 160 km/h.

Direction: North, East, South, West (bound), P = East, Lane = 0-16

Separation: Headway > 0 sec, Span 0 - 100 metre

Name: Default Profile

Scheme: Vehicle classification (AustRoads94)

Units: Metric (metre, kilometre, m/s, km/h, kg, tonne)

In profile: Vehicles = 2044 / 2062 (99.13%)

#### **Speed Statistics**

Direction: EW Vehicles = 2044

Posted speed limit = 60 km/h, Exceeding = 35 (1.712%), Mean Exceeding = 63.95 km/h

Maximum = 83.4 km/h, Minimum = 10.2 km/h, Mean = 40.2 km/h 85% Speed = 50.58 km/h, 95% Speed = 55.44 km/h, Median = 42.12 km/h

20 km/h Pace = 33 - 53, Number in Pace = 1408 (68.88%) Variance = 118.72, Standard Deviation = 10.90 km/h



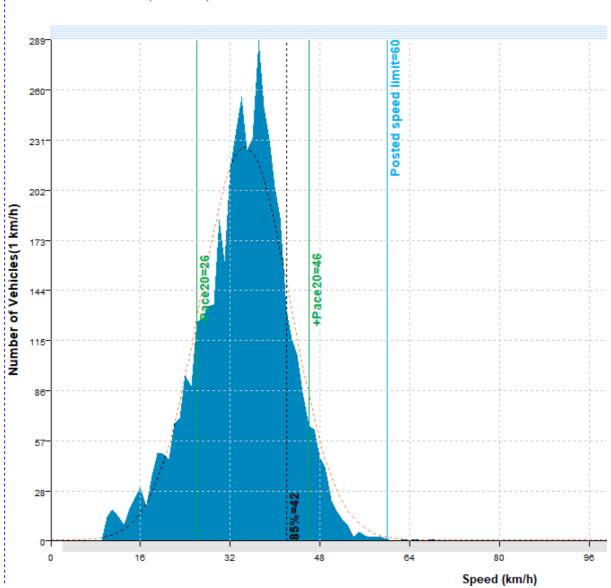
## Park Street - Power Pole 125158

#### Speed Histogram

SpeedHist-16 (Metric) Site: Park St.0.0E

Description: Park St - Power Pole #125158
Filter time: 0:00 Saturday, 3 December 2022 => 16:15 Friday, 16 December 2022 Filter: Cls(1-12) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Lane(0-16)

Scheme: Vehicle classification (AustRoads94)





#### MetroCount

#### MetroCount Traffic Executive Speed Histogram

#### SpeedHist-16 -- English (ENA)

Datasets:

Site: [Park St] Park St - Power Pole #125158

Attribute: 5005

Direction: 2 - East bound, A trigger first. Lane: 0

Survey Duration: 0:00 Saturday, 3 December 2022 => 16:15 Friday, 16 December 2022,

Zone:

File: PARK 6055 161222.EC0 (Plus )

Identifier: QG74JQTN MC5900-X13 (c)MetroCount 09Nov16

Algorithm: Factory default axle (v5.08)

Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 0:00 Saturday, 3 December 2022 => 16:15 Friday, 16 December 2022 (13.6777)

Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Speed range: 10 - 160 km/h.

Direction: North, East, South, West (bound), P = East, Lane = 0-16

Separation: Headway > 0 sec, Span 0 - 100 metre

Name: Default Profile

Scheme: Vehicle classification (AustRoads94)

Units: Metric (metre, kilometre, m/s, km/h, kg, tonne)

In profile: Vehicles = 4588 / 4662 (98.41%)

#### Speed Statistics

Direction: EW Vehicles = 4588

Posted speed limit = 60 km/h, Exceeding = 4 (0.087%), Mean Exceeding = 64.33 km/h

Maximum = 68.3 km/h, Minimum = 10.1 km/h, Mean = 34.6 km/h 85% Speed = 42.48 km/h, 95% Speed = 47.16 km/h, Median = 35.28 km/h

20 km/h Pace = 26 - 46, Number in Pace = 3639 (79.32%)

Variance = 65.03, Standard Deviation = 8.06 km/h



## Saunders Street - Power Pole 372796

## Speed Histogram SpeedHist-17 (Metric) Site: Saunders St.0.0N Description: Power Pole #372796 Filter time: 0:00 Friday, 25 November 2022 => 16:20 Friday, 16 December 2022 Filter: Cls(1-12) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Lane(0-16) Scheme: Vehicle classification (AustRoads94) 2626 Posted speed limit=60 2363 2100 1838 Number of Vehicles(1 km/h) 1575 -Pace 20=45 +Pace 20=65 1313 1050 787 525 262 16 Speed (km/h)



#### MetroCount

## MetroCount Traffic Executive Speed Histogram

#### SpeedHist-17 -- English (ENA)

Datasets:

Site: [Saunders St] Power Pole #372796

Attribute: 5008

Direction: 1 - North bound, A trigger first. Lane: 0

Survey Duration: 0:00 Friday, 25 November 2022 => 16:20 Friday, 16 December 2022,

Zone:

File: SAUNDERS 6058 161222.EC0 (Plus )

Identifier: QG9495NY MC5900-X13 (c)MetroCount 09Nov16

Algorithm: Factory default axle (v5.08)

Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 0:00 Friday, 25 November 2022 => 16:20 Friday, 16 December 2022 (21.6807)

Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Speed range: 10 - 160 km/h.

Direction: North, East, South, West (bound), P = North, Lane = 0-16

Separation: Headway > 0 sec, Span 0 - 100 metre

Name: Default Profile

Scheme: Vehicle classification (AustRoads94)

Units: Metric (metre, kilometre, m/s, km/h, kg, tonne)

In profile: Vehicles = 47455 / 47548 (99.80%)

#### **Speed Statistics**

Direction: NS Vehicles = 47455

Posted speed limit = 60 km/h, Exceeding = 11385 (23.99%), Mean Exceeding = 65.93 km/h

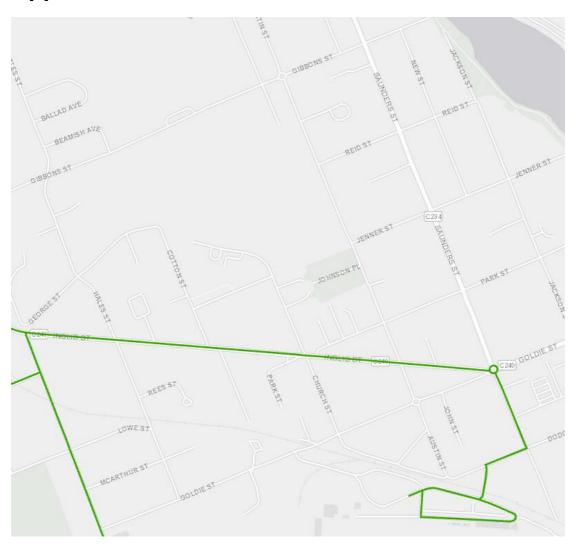
Maximum = 123.1 km/h, Minimum = 10.0 km/h, Mean = 54.1 km/h 85% Speed = 63.00 km/h, 95% Speed = 69.66 km/h, Median = 54.72 km/h

20 km/h Pace = 45 - 65, Number in Pace = 35212 (74.20%)

Variance = 99.02, Standard Deviation = 9.95 km/h



## **Appendix D - Tas 26m B Double Network**



## 

#### Network Access - not State Growth

B Double (26m) Structures with conditions

- Conditionally approved B-Double overpass
- Conditionally approved B-Double bridge
- •
- Restricted Structure

#### B Double (26m)

- 26m B-Double access
- Conditionally Approved 26m B-Double access
- Restricted Road



# **Appendix E - Safe System Assessment**

# Existing Austin Street (Inglis Street to Gibbons Street)

		Run-off-road Head-on	Head-on	Intersection	Buses	Pedestrian	Cyclist	Motorcyclist	
Exposure	AADT (1,050 vpd)	Low traffic volume, with 1 Serious crash	Low traffic volume, with no crashes	Inglis St Int. (1 Serious, Bus route 1 Minor and 2 PDO crashes involving cross traffic crashes) with some 6,500 vpd.		Pedestrian activity Cyclist activity		Motorcyclist activity	
	Score /4	1	1	3	1	2	2	1	
Likelihood	Justification	Wide straight road with on street parking	Wide straight road with on street parking	Cross Intersection with Bus stops Simple Layout and junction islands on side roads		Foothpaths along East side of road	Wide road with footpath one side and no specific cyclist facilities	Consistent seal condition with 4m wide traffic lanes	
	Score /4	1	1	3	1	1	1	1	
Severity	Justification (50 km/h speed limit)	Low speed environment	Low speed environment	Low speed environment	Low speed environment	Medium - High speed environment for pedestrians	Medium - High speed   Medium - High speed   Medium - High speed   environment for   environment for   environment for   pedestrians   cyclists	Medium - High speed environment for motor cyclists	
	Score /4	1	1	1	1	3	3	3	Total
Product	Total Score /64	1	1	6	1	9	9	3	2



# Existing Gibbons Street ( Hales Street to Saunders Street)

			Run-off-road	Head-on	Intersection	Buses	Pedestrian	Cyclist	Motorcyclist	
Exposure	AADT (1,500 vpd)	(pa	Low traffic volume, with no crashes	Low traffic volume, with no crashes	Cross intersection and Bus route a roundabout with low volumes and no crashes	Bus route	Pedestrian activity Cyclist activity		Motorcyclist activity	
	Score /	/ 4	1	1	1	1	2	1	1	
Likelihood	Justification	ion	Wide straight road with on street parking	Wide straight road with on street parking	Cross Intersections	Bus stops	Foothpaths both sides. School Crossing with 40 ESL	Wide road with footpath both sides and no specific cyclist facilities	Consistent seal condition with 4m wide traffic lanes	
	Score /	/ 4	1	1	3	1	1	1	1	
Severity	Justification (50 km/h speed limit)	ion ed limit)	Low speed environment	Low speed environment	Low speed environment	Low speed environment	Medium - High speed Medium environment for environ pedestrians with 40 cyclists ESL	Medium - High speed Medium - High speed Medium - High speed environment for environment for environment for pedestrians with 40 cyclists  ESL	Medium - High speed environment for motor cyclists	
	Score /	/ 4	1	1	1	1	2	3	3	Total
Product	Product Total Score /64	/64	1	1	3	1	4	8	3	



# Existing Hales Street (Inglis Street to Gibbons Street)

			Run-off-road	Head-on	Intersection	Buses	Pedestrian	Cyclist	Motorcyclist		
Exposure			affic volume, . Serious	Low traffic volume, with no crashes	t Cross on with	Bus route	Pedestrian activity	Cyclist activity	Motorcyclist activity, 1 Serious		
	AADT		Crasn		r,socopa				motorcyclist crasn		
	(2,300 vpd)	Q									
	Score /4	/ 4	1	1	1	1	2	1	2		
Likelihood			road	Wide straight road	Wide straight road Cross Intersection with Bus stops	Bus stops	mostly		Consistent seal		
			with on street	with on street	unfavourable offsets		both sides.		condition with 4m		
	Justification	5	parking	parking	for right turns to side			2	wide traffic lanes		
					roads			specific cyclist			
								facilities			
	Score /4	/ 4	1	1	3	1	1	1	1		
Severity			Low speed	Low speed	Low speed	Low speed	Medium - High speed	Medium - High speed   Medium - High speed   Medium - High speed	Medium - High speed		
	Justification	-Co	environment	environment	environment	environment	environment for	environment for	environment for		
	(50 km/h speed limit)	d limit)					pedestrians	cyclists	motor cyclists		
	Score /	/4	1	1	1	1	3	က	3	Total	/448
Product	Total Score /64	,64	1	1	33	1	9	3	9	21	



# Existing Inglis Street ( Hales Street to Saunders Street)

Safe System Assessment

### Total Motorcyclist activity Motorcyclist condition with 4m wide traffic lanes environmentfor Consistent seal motor cyclists œ High speed footpaths both sides environment for Wide road with cyclist facilities and no specific Cyclist activity œ 4 High speed Cyclist cyclists Pedestrian activity pedestrian refuge sides of road and Foothpaths both environment for Pedestrian pedestrians œ High speed slands. Low speed environment Buses Bus route **Bus bays** Roundabout and Cross Serious, 1 Minor and 2 PDO crashes involving type intersection with PDO & 1 Minor crash) with some 1,050 vpd. cross traffic crashes) with some 2,500vpd. unction islands and Saunders St Rabt (8 Austin St Int. (1 imple Layout 9 environment Low speed Wide straight road Moderate traffic volume, with no with on street Low speed environment Run-off-road Head-on parking and adequate delineation 8 rashes volume, with 1 PDO Wide straight road Moderate traffic with on street environment parking and delineation Low speed adequate crash Total Score /64 50 & 60km/h Justification Score /4 Justification Score /4 speed limit) 6,500 vpd AADT Score Likelihood Exposure Product Severity

/448 36



# Existing Jenner Street ( Austin Street to Saunders Street)

		Run-off-road Head-on	Head-on	Intersection	Buses	Pedestrian	Cyclist	Motorcyclist	
Exposure	AADT (220 vpd)	Low traffic volume, no crashes	Low traffic volume, Low traffic volume, no crashes with no crashes	Austin Street intersections with 2,500 vpd and no crashes. Saunders Street intersection with 2,500 vpd and a	Some coaches	Pedestrian activity Oyclist activity		Motorcyclist activity	
	Score /4	1	1	1	1	1	1	1	
Likelihood	Justification	Wide straight road with on street parking	Wide straight road Wide straight road with on street with on street parking	Cross Intersections with Simple Layouts	On Street parking	Foothpath along North side of road	Wide road with Consistent seal footpath along one condition with 3rd side and no specific wide traffic lanes cyclist facilities	Consistent seal condition with 3m wide traffic lanes	
	Score /4	1	1	3	1	1	1	1	
Severity	Justification (50 km/h speed limit)	Low speed environment nit)	Low speed environment	Low speed environment	Low speed environment	Medium - High speed environment for pedestrians	Medium - High speed Medium - High speed environment for environment for environment for pedestrians cyclists	Medium - High speed environment for motor cyclists	
	Score /4	1	1	1	1	3	3	3	Total
Product	Total Score /64	1	1	3	1	3	3	3	11



# Existing Park Street (Austin Street to Saunders Street)

		Run-off-road	Head-on	Intersection	Buses	Pedestrian	Cyclist	Motorcyclist		
Exposure	AADT (300 vpd)	Low traffic volume, no crashes	Low traffic volume, with no crashes	Austin Street intersections with 2,500 vpd and 2 PDO crashes. Saunders Street intersection with 2,500 vpd and a Minor and 1 PDO Crash	Some coaches	Pedestrian activity	Cyclist activity	Motorcyclist activity		
	Score /4	1	1	1	1	2	1	1		
Likelihood	Justification	Wide straight road with on street parking	Wide straight road Cross Intersections with on street with Simple Layouts parking		On Street parking	Foothpaths along both sides of road	Wide road with Consistent seal footpath both sides condition with 3m and no specific wide traffic lanes cyclist facilities	Consistent seal condition with 3m wide traffic lanes		
	Score /4	1	1	3	1	1	1	1		
Severity	Justification (50 km/h speed limit)	Low speed environment	Low speed environment	Low speed environment	Low speed environment	Medium - High speed environment for pedestrians	Medium - High speed Medium - High speed environment for environment for environment for pedestrians cyclists	Medium - High speed environment for motor cyclists		
	Score /4	1	1	1	1	3	3	3	Total /44	/448
Product	Product Total Score /64	1	1	3	1	9	8	3	18	



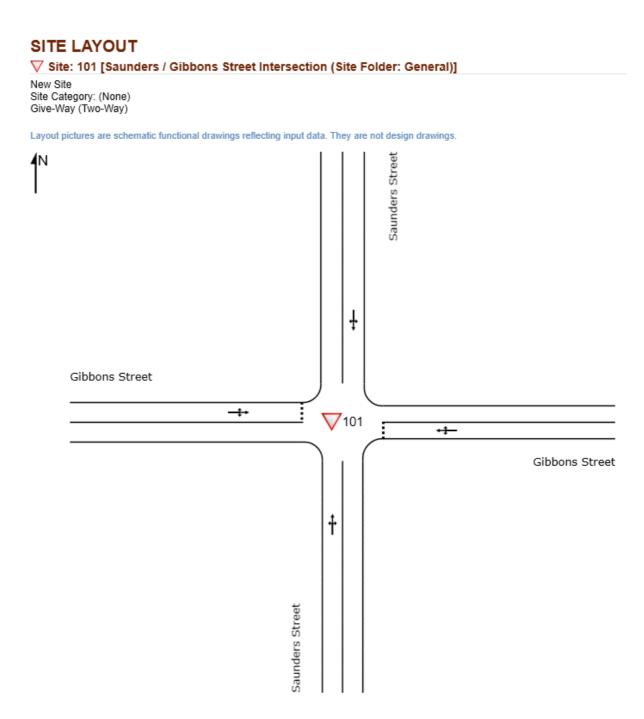
# Existing Saunders Street (Inglis Street to Gibbons Street)

		Run-off-road Head-on	Head-on	Intersection	Buses	Pedestrian	Cyclist	Motorcyclist	
Exposure	AADT (2,500 vpd)	Low traffic volume, with no crashes	Low traffic volume, with no crashes	Inglis / Goldie Rabt. ( Minor and 8 PDO crashes involving 4 cross traffic crashes) with some 6,500 vpd. Saunders / Park Int 1 Minor and 1 PDO crash.	Bus route	Pedestrian activity Oyclist activity		Motorcyclist activity	
	Score /4	1	1	2	1	2	1	1	
Likelihood	Justification	Wide straight road with on street parking	Wide straight road with on street parking	Wide straight road Wide straight road Roundabout and Cross Bus stops with on street with on street Simple Layout Simple Layout	Bus stops	Foothpaths along both sides of road	Wide road with Consistent seal footpath both sides condition with 4m and no specific wide traffic lanes cyclist facilities	Consistent seal condition with 4m wide traffic lanes	
	Score /4	1	1	2	1	1	1	1	
Severity	Justification (60 km/h speed limit)	Low speed environment	Low speed environment	Low speed environment	Low speed environment	High speed environment for pedestrians	High speed environment for cyclists	High speed environment for motor cyclists	
	Score /4	1	1	1	1	4	4	4	Total
Product	Total Score /64	1	1	4	1	8	4	4	2



## **Appendix F - SIDRA Models**

### Saunders / Gibbons Intersection





▼ Site: 101 [Saunders / Gibbons St Int. AM Op1 (Site Folder: General)]

New Site
Site Category: (None)
Give-Way (Two-Way)

**MOVEMENT SUMMARY** 

# **Appendix G - SIDRA Analysis**

### Saunders / Gibbons Intersection 2042 AM Peak - Option 1

Vehicle Movement Performance	nent Perform	ance								
Mov ID	Tum	INPUT VOLUN [ Total veh/h	LUMES HV] %	DEMAND FLOWS [ Total HV ]	) FLOWS HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [ Veh. Dist ] veh m	r QUEUE Dist] m
South: Saunders Street	Street									
-	77	-	0.0	-	0.0	0.036	4.9	LOSA	0.0	0.2
2	Ţ	99	0.0	69	0.0	0.036	0.0	LOSA	0.0	0.2
3	R2	4	0.0	4	0.0	0.036	4.9	LOSA	0.0	0.2
Approach		71	0.0	75	0.0	0.036	0.4	NA	0.0	0.2
East: Gibbons Street	treet									
4	77	4	0.0	4	0.0	0.169	4.7	LOSA	9.0	4.4
5	Ţ	-	0.0	_	0.0	0.169	4.2	LOSA	9.0	4.4
9	R2	150	0.0	158	0.0	0.169	5.5	LOSA	9.0	4.4
Approach		155	0.0	163	0.0	0.169	5.4	LOSA	9.0	4.4
North: Saunders Street	Street									
7	12	62	0.0	65	0.0	090:0	4.6	LOSA	0.0	0.1
60	Ţ	54	0.0	27	0.0	090.0	0.0	LOSA	0.0	0.1
6	R2	-	0.0	-	0.0	090:0	4.8	LOSA	0.0	0.1
Approach		117	0.0	123	0.0	090'0	2.5	NA	0.0	0.1
West: Gibbons Street	treet									
10	77	-	0.0	-	0.0	0.003	4.7	LOSA	0.0	0.1
11	Τ	-	0.0	-	0.0	0.003	4.1	LOSA	0.0	0.1
12	R2	-	0.0	-	0.0	0.003	5.1	LOSA	0.0	0.1
Approach		e	0.0	ဂ	0.0	0.003	4.7	LOSA	0.0	0.1
All Vehicles		346	0.0	364	0.0	0.169	3.4	NA	9.0	4.4



## Saunders / Gibbons Intersection 2042 PM Peak - Option 1

riangle Site: 101 [Saunders / Gibbons St Int. PM Op1 - Copy (Site Folder: General)]

**MOVEMENT SUMMARY** 

New Site Site Category: (None) Give-Way (Two-Way)

Vehicle Move	Vehicle Movement Performance	ınce								
Mov ID	Tum	INPUT VOLUMES [ Total H	OLUMES HV] %	DEMAND FLOWS [ Total HV   veh/h	) FLOWS HV] %	Deg. Sath v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [ Veh. Dist ] veh m	of Queue Dist] m
South: Saunders Street	rs Street									
-	77	-	0.0	-	0.0	0.036	4.9	LOSA	0.0	0.2
2	T1	99	0.0	69	0.0	0.036	0.0	LOSA	0.0	0.2
3	R2	4	0.0	4	0.0	0.036	4.9	LOSA	0.0	0.2
Approach		71	0.0	75	0.0	0.036	0.4	NA	0.0	0.2
East: Gibbons Street	Street									
4	77	4	0.0	4	0.0	0.169	4.7	LOSA	9.0	4.4
2	I	-	0.0	-	0.0	0.169	4.2	LOSA	9.0	4.4
9	R2	150	0.0	158	0.0	0.169	5.5	LOSA	9.0	4.4
Approach		155	0.0	163	0.0	0.169	5.4	LOSA	9.0	4.4
North: Saunders Street	s Street									
7	77	62	0.0	65	0.0	090.0	4.6	LOSA	0.0	0.1
00	I	54	0.0	22	0.0	090'0	0.0	LOSA	0.0	0.1
6	R2	-	0.0	-	0.0	090'0	4.8	LOSA	0.0	0.1
Approach		117	0.0	123	0.0	0.060	2.5	NA	0.0	0.1
West: Gibbons Street	Street									
10	7	-	0.0	-	0.0	0.003	4.7	LOSA	0.0	0.1
=	11	-	0.0	-	0.0	0.003	4.1	LOSA	0.0	0.1
12	R2	-	0.0	-	0.0	0.003	5.1	LOSA	0.0	0.1
Approach		e	0.0	က	0.0	0.003	4.7	LOSA	0.0	0.1
All Vehicles		346	0.0	364	0.0	0.169	3.4	NA	9.0	4.4



### **Appendix H - Level of Service Descriptions**

Level of service A A condition of free-flow in which individual drivers are virtually

unaffected by the presence of others in the traffic stream.

Freedom to select desired speeds and to manoeuvre within the traffic stream is extremely high, and the general level of

comfort and convenience provided is excellent.

Level of service B In the zone of stable flow where drivers still have reasonable

freedom to select their desired speed and to manoeuvre within

the traffic stream. The general level of comfort and convenience is a little less than with level of service A.

Level of service C Also in the zone of stable flow, but most drivers are restricted

to some extent in their freedom to select their desired speed and to manoeuvre within the traffic stream. The general level of comfort and convenience declines noticeably at this level.

Level of service D Close to the limit of stable flow and approaching unstable flow.

All drivers are severely restricted in their freedom to select their desired speed and to manoeuvre within the traffic stream. The general level of comfort and convenience is poor, and small increases in traffic flow will generally cause operational

problems.

Level of service E Traffic volumes are at or close to capacity, and there is virtually

no freedom to select desired speeds or to manoeuvre within the traffic stream. Flow is unstable and minor disturbances

within the traffic stream will cause breakdown.

Level of service F In the zone of forced flow, where the amount of traffic

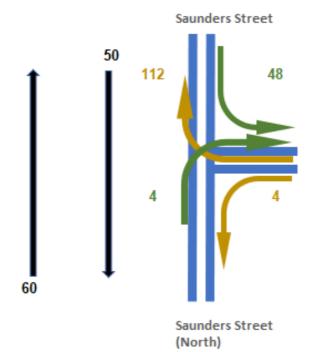
approaching the point under consideration exceeds that which can pass it. Flow breakdown occurs, and gueuing and delays

result.



# **Appendix I - Traffic Assignments 2022 Gibbons / Saunders**

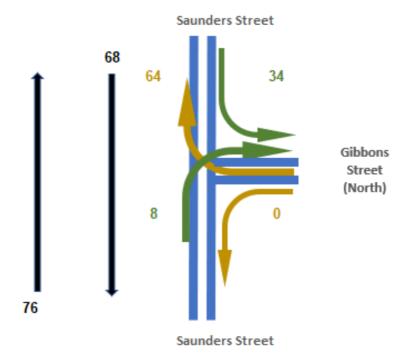
AM Peak - 2022



Gibbons Street (East)

	Peak Hr Su	mmary	(vph)
	Movement	Turn	TEF
АМ	Left In	48	50
API	Right In	4	158
PM	Left In	34	68
- FIN	Right In	8	178

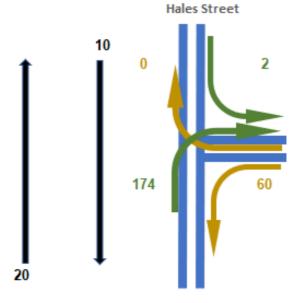
PM Peak - 2022





## Gibbons / Hales

AM Peak - 2022

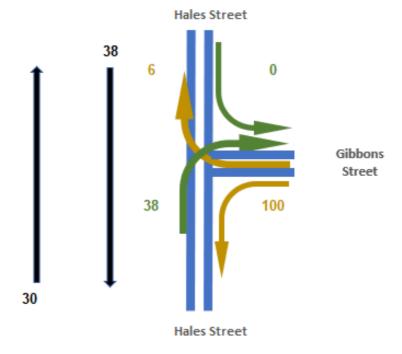


Gibbons Street

**Hales Street** 

PM Peak - 2022

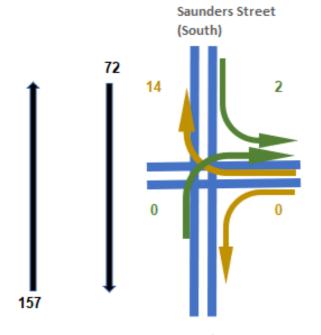
	Peak Hr Su	mmary	(vph)
	Movement	Turn	TEF
АМ	Left In	2	10
API	Right In	174	32
РМ	Left In	0	38
-11	Right In	38	68





## Saunders / Park

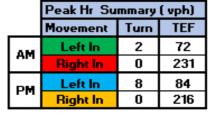
AM Peak - 2022

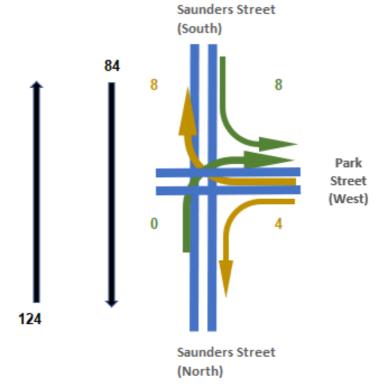


Park Street (West)

Saunders Street (North)

PM Peak - 2022

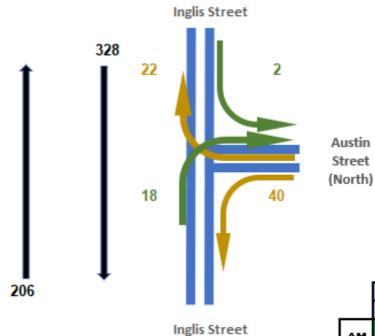




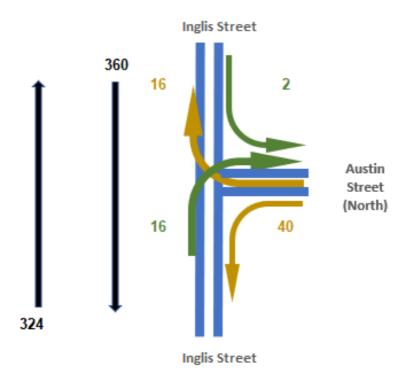


# **Inglis / Austin**

AM Peak - 2022



PM Peak - 2022





# Inglis / Hales

AM Peak - 2022



Hales Street (North)

62

548

Right In

PM Peak - 2022





# Appendix J - 5 Year Reported Crash History Austin Street (Inglis to Gibbons)

Crash Id	Description	Date	Time	Severity	Light	location	Units
2035121	110 - Cross traffic	20-Apr-2017	18:43	PDO	Dusk	Austin St / Park St. Int.	LV & LV
49947027	110 - Cross traffic	30-Mar-2019	18:49	PDO	Dusk	Austin St / Inglis St. Int.	LV & LV
50569937	110 - Cross traffic	01-Feb-2020	12:25	PDO	Day	Austin St / Park St.Int.	LV & LV
50670434	110 - Cross traffic	01-Jun-2020	14:40	PDO	Day	Austin St / Inglis St. Int.	LV & LV
50920431	169 - Other on path	30-Dec-2020	18:20	Serious	Day	Austin St.	LV & LV
51433715	169 - Other on path	21-Oct-2021	00:43	Minor	Night	Austin St / Inglis St. Int.	LV & LV
51754304	110 - Cross traffic	28-Aug-2022	11:50	Serious	Day	Austin St / Inglis St. Int.	LV & LV

PDO Property Damage Only LV Light Vehicle





# Gibbons St ( Hales St – Saunders St)

No reported crashes over last 5 years

# Hales St (Inglis St – Gibbons St)

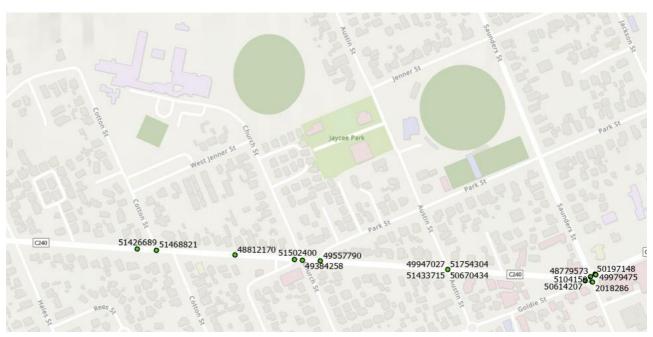
Crash Id	Description	Date	Time	Severity	Light	location	Units
2015503	189 - Other curve	04-Mar-2017	01:50	Serious	Night	Hales St.	Motorcycle





# Inglis St ( Hales St – Saunders St)

Crash Id	Description	Date	Time	Severity	Light	location	Units
2018286	100 - Near side	11-Mar-2017	10:50	PDO	Day	Inglis / Saunders Int.	LV & Ped
2064102	110 - Cross traffic	01-Jul-2017	18:50	PDO	Night	Inglis / Saunders Int.	LV & LV
48779573	110 - Cross traffic	27-Nov-2017	00:00	PDO	Night	Inglis / Saunders Int.	LV & LV
49968034	100 - Near side	17-Apr-2019	13:20	Minor	Day	Inglis / Saunders Int.	LV & Ped
49979475	110 - Cross traffic	01-May-2019	13:00	PDO	Day	Inglis / Saunders Int.	LV & LV
50197148	164 - Permanent obst. on c/way	31-Jul-2019	08:00	PDO	Day	Inglis / Saunders Int.	HV
50614207	179 - Other straight	01-Apr-2020	03:15	PDO	Night	Inglis / Saunders Int.	LV
51041591	121 - Right through	27-Apr-2021	08:00	PDO	Day	Inglis / Saunders Int.	LV & LV
51347266	110 - Cross traffic	13-Aug-2021	18:40	PDO	Night	Inglis / Saunders Int.	LV & LV
48812170	144 - Parking vehicles only	28-Dec-2017	11:00	PDO	Day	Inglis St.	LV & LV
51426689	132 - Veh. in same lane/ right rear	13-Oct-2021	17:00	Minor	Day	Inglis St.	LV & LV
51502400	173 - Right off c/way into obj. or pkd. Veh.	01-Jan-2022	16:15	PDO	Day	Inglis St.	LV
49384258	121 - Right through	06-Jun-2018	08:50	PDO	Day	Inglis / Church Int.	LV & LV
49557790	137 - Veh. in parallel lane/ left turn side swipe	29-Aug-2018	11:50	First Aid	Day	Inglis / Park Int.	LV & Bicycle
49947027	110 - Cross traffic	30-Mar-2019	18:49	PDO	Dusk	Inglis / Austin Int.	LV & LV
50670434	110 - Cross traffic	01-Jun-2020	14:40	PDO	Day	Inglis / Austin Int.	LV & LV
51433715	169 - Other on path	21-Oct-2021	00:43	Minor	Night	Inglis / Austin Int.	LV & LV
51754304	110 - Cross traffic	28-Aug-2022	11:50	Serious	Day	Inglis / Austin Int.	LV & LV
51468821	132 - Vehicles in same lane/ right rear	02-Dec-2021	10:15	PDO	Day	Inglis / Cotton Int.	LV & LV





## Jenner St ( Austin St – Saunders St)

Crash Id	Description	Date	Time	Severity	Light	Location	Units
50891718	110 - Cross traffic	05-Dec-2020	11:30	Minor	Day	Jenner / Saunders Int.	
51501151	149 - Other maneuvering	23-Dec-2021	17:35	PDO	Day	Jenner St.	



## Park St ( Austin St – Saunders St)

Crash Id	Description	Date	Time	Severity	Light	Location	Units
2035121	110 - Cross traffic	20-Apr-2017	18:43	PDO	Dusk	Austin St. / Park St. Int.	LV & LV
49890206	110 - Cross traffic	09-Mar-2019	13:15	Minor	Day	Saunders St. / Park St. Int.	LV & LV
50569937	110 - Cross traffic	01-Feb-2020	12:25	PDO	Day	Austin St. / Park St. Int.	LV & LV
50881115	110 - Cross traffic	30-Nov-2020	09:50	PDO	Day	Saunders St. / Park St. Int.	LV & LV
51440817	145 - Reversing	30-Oct-2021	11:00	PDO	Day	Park St.	HV & LV
51452943	169 - Other on path	10-Nov-2021	21:00	PDO	Night	Park St.	LV & LV

PDO Property Damage Only LV Light Vehicle





# Saunders St (Inglis St - Gibbons St)

Crash Id	Description	Date	Time	Severity	Light	Location	Units
2018286	100 - Near side	11-Mar-2017	10:50	PDO	Day	Inglis / Saunders Rabt	LV & Ped.
2064102	110 - Cross traffic	01-Jul-2017	18:50	PDO	Night	Inglis / Saunders Rabt	LV & LV
48779573	110 - Cross traffic	27-Nov-2017	00:00	PDO	Night	Inglis / Saunders Rabt	LV & LV
49890206	110 - Cross traffic	09-Mar-2019	13:15	Minor	Day	Saunders / Park Int.	LV & LV
49968034	100 - Near side	17-Apr-2019	13:20	Minor	Day	Inglis / Saunders Rabt	LV & Ped.
49979475	110 - Cross traffic	01-May-2019	13:00	PDO	Day	Inglis / Saunders Rabt	LV & LV
50197148	164 - Perm. Obst. on /way	31-Jul-2019	08:00	PDO	Day	Inglis / Saunders Rabt	HV
50614207	179 - Other straight	01-Apr-2020	03:15	PDO	Night	Inglis / Saunders Rabt	LV
50881115	110 - Cross traffic	30-Nov-2020	09:50	PDO	Day	Saunders / Park Int.	LV & LV
50891718	110 - Cross traffic	05-Dec-2020	11:30	Minor	Day	Saunders / Jenner Int.	LV & LV
51041591	121 - Right through	27-Apr-2021	08:00	PDO	Day	Inglis / Saunders Rabt	LV & LV
51347266	110 - Cross traffic	13-Aug-2021	18:40	PDO	Night	Inglis / Saunders Rabt	LV & LV

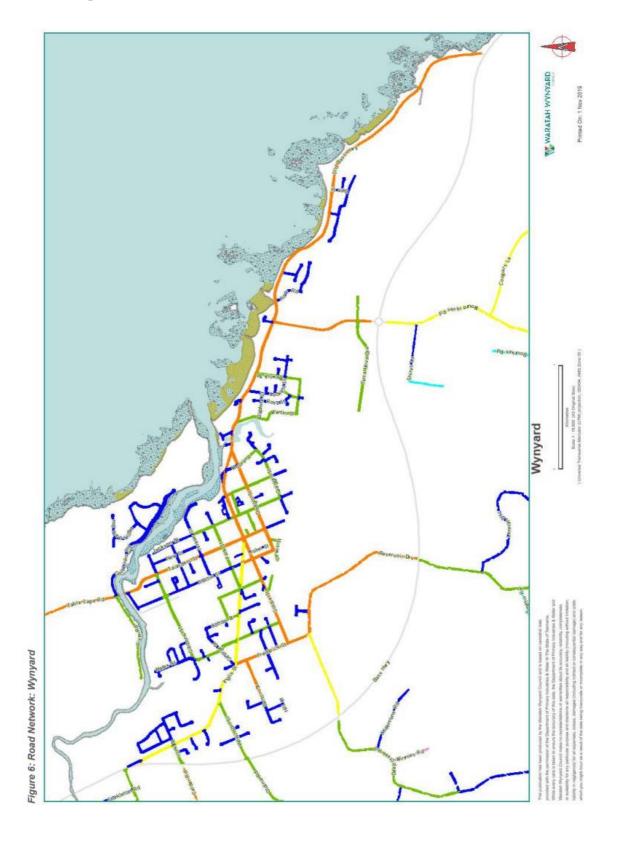
PDO Property Damage Only LV Light Vehicle

HV Heavy Vehicle





# **Appendix K - WWC Road Hierarchy Management Plan**





### HIERARCHY

A key aspect of Council's approach is to recognise that some roads are of greater 'importance' than others in the sense that a specific hazard in a certain location might pose greater risk to the public than a similar hazard elsewhere in the network. A section of road may be identified in this manner because it is subject to particularly high levels of use or is used to freight goods and connect towns.

Council will also take into consideration future trends in projected population growth and the selecting of a preferred strategic route for heavy traffic.

The Local Government Road Hierarchy has been adopted as an extension to the Tasmanian State Road Hierarchy as proposed in the Expert's Report contained within the Report of the Auditor General No.5 of 2013-14: Infrastructure Financial Accounting in Local Government.

See Table 2 for a description of each of the hierarchy classes and Tables 3 and 4 to demonstrate how the road hierarchies are determined.

Appendix A contains the full inventory of Council's rural road network categorised by their ranking within the road hierarchy. Appendix B shows this information on a thematic map.

Table 2: Hierarchy Definitions

HIERARCHY CLASS	ROAD FUNCTION
6 –Arterial	Major link for traffic flow within urban areas, between towns, major tourist destinations and industrial areas
7 – Collector	Connect from arterial roads and link roads
8 – Link	Access for properties and link to collector roads
9 – Local Access	Access for residential and commercial properties
10 – Minor Access	Access for residential properties
11 – Unformed	Roads not maintained by Council



Table 3: Hierarchy Determination - Urban

CLASSIFICATION	6. ARTERIAL	7. COLLECTOR	86 E	9. LOCAL ACCESS	10. MINOR ACCESS	11. UNFORMED
Functional Criteria						
Function/Predominate Purpose	Provides for the principle links between urban centres and rural regions	Connect arterial roads to local areas and supplement arterial roads in providing for traffic movements between urban areas, or in some cases rural population centres	Provide a link between arterial or collector roads and local access roads	Provide access to residential properties and, in some cases, commercial properties at a local level	residential properties and irregular access to community facilities such as parks and reserves	Roads not maintained by Council or non- constructed/ maintained road reserves or roads that have a very low level of service.
Connectivity Description	High – connecting precincts, localities, suburbs, and rural population centres.	High – supplements arterial roads in connecting suburbs, business districts and localised facilities.	Medium – connects traffic at a neighbourhood level with collector and arterial roads.	Low – connects individual properties within a neighbourhood to link roads.	Low – provides access to properties.	Future roads or roads that have a very low level of service.
Guidance Metrics						
Average Annual Daily Traffic (AADT) – vehicles per day	> 10,000 vpd	3,000 - 10,000 vpd	1,000 – 3,000 vpd	50 – 1,000 vpd	< 50 vpd	N/A
Heavy Vehicles Permitted	Yes – thoroughfare	Yes – thoroughfare	Yes – some through traffic	No thoroughfare, local access only	No thoroughfare, local access only	N/A
Average Annual Daily Truck Traffic or Equivalent Heavy Vehicles (AADTT / EHV)	> 1,000 AADTT or > 10% EHV	250 – 1,000 AADTT or > 10% EHV	< 250 AADTT or > 10% EHV	N/A	N/A	N/A
Public transport route	Yes	Yes	Yes	No	No	N/A
Carriageway Form	2 lanes	2 lanes	2 lanes	1 or 2 lanes	1 or 2 lanes	N/A
Running Surface	Sealed	Sealed	Sealed / Unsealed	Sealed / Unsealed	Sealed / Unsealed	N/A
Approved Residential Properties (ARP)	Refer to AADT/AADTT guidelines	Refer to AADT/AADTT guidelines	Refer to AADT/AADTT guidelines	Refer to AADT/AADTT guidelines	> 2 approved residential properties	N/A



# **Appendix L - WWC Traffic Count Surveys**

## **Traffic Survey Sites**





### Austin Street ( Park St to Jenner St)

**Datasets:** 

Site: [Austin St] Power Pole #510206

Attribute: 5006

**Direction:** 1 - North bound, A trigger first. **Lane:** 0

Survey Duration: 0:00 Friday, 25 November 2022 => 16:19 Friday, 16 December 2022,

Zone:

File: Austin St 0 2022-12-16 1619.EC0 (Plus )

Identifier: QG68E9VB MC5900-X13 (c) Metro Count 09Nov16

**Algorithm:** Factory default axle (v5.08)

Data type: Axle sensors - Paired (Class/Speed/Count)

**Profile:** 

Filter time: 0:00 Friday, 25 November 2022 => 16:19 Friday, 16 December 2022

(21.6803)

 $\textbf{Included classes:} \qquad 1,\, 2,\, 3,\, 4,\, 5,\, 6,\, 7,\, 8,\, 9,\, 10,\, 11,\, 12$ 

**Speed range:** 10 - 160 km/h.

**Direction:** North, East, South, West (bound), P = North, Lane = 0-16

**Separation:** Headway > 0 sec, Span 0 - 100 metre

Name: Default Profile

**Scheme:** Vehicle classification (AustRoads94)

**Units:** Metric (metre, kilometre, m/s, km/h, kg, tonne)

**In profile:** Vehicles = 19600 / 19625 (99.87%)



-							
Day	Hits	RawVol	DayFac	MonFac	AdjVol	-	Date
0	1	1065.000	1.000	1.000	1065.000	-	Friday, 25 November 2022
1	1	737.000	1.000	1.000	737.000	-	Saturday, 26 November 2022
2	1	621.000	1.000	1.000	621.000	-	Sunday, 27 November 2022
3	1	934.000	1.000	1.000	934.000	-	Monday, 28 November 2022
4	1	990.000	1.000	1.000	990.000	-	Tuesday, 29 November 2022
5	1	949.000	1.000	1.000	949.000	-	Wednesday, 30 November 2022
6	1	1066.000	1.000	1.000	1066.000	-	Thursday, 1 December 2022
7	1	1070.000	1.000	1.000	1070.000	_	Friday, 2 December 2022
8	1	686.000	1.000	1.000	686.000	-	Saturday, 3 December 2022
9	1	790.000	1.000	1.000	790.000	-	Sunday, 4 December 2022
10	1	828.000	1.000	1.000	828.000	-	Monday, 5 December 2022
11	1	967.000	1.000	1.000	967.000	-	Tuesday, 6 December 2022
12	1	859.000	1.000	1.000	859.000	-	Wednesday, 7 December 2022
13	1	957.000	1.000	1.000	957.000	-	Thursday, 8 December 2022
14	1	1101.000	1.000	1.000	1101.000	-	Friday, 9 December 2022
15	1	731.000	1.000	1.000	731.000	-	Saturday, 10 December 2022
16	1	669.000	1.000	1.000	669.000	-	Sunday, 11 December 2022
17	1	937.000	1.000	1.000	937.000	-	Monday, 12 December 2022
18	1	827.000	1.000	1.000	827.000	-	Tuesday, 13 December 2022
19	1	1007.000	1.000	1.000	1007.000	-	Wednesday, 14 December 2022
20	1	1024.000	1.000	1.000	1024.000	-	Thursday, 15 December 2022
21						_	Friday, 16 December 2022

Total days = 21, Coverage = 5.75%

ADT = 895.952, SD = 146.244

AADT = 895.952, SD = 146.244

### **Traffic Impact Assessment**



### Weekdays = 15, Coverage = 4.11%

AWDT = 972.067, SD = 86.998

AAWDT = 972.067, SD = 86.998

### Weekend days = 6, Coverage = 1.64%

AWET = 705.667, SD = 59.389

AAWET = 705.667, SD = 59.389



### Gibbons Street (Austin St to Hales St)

**Datasets:** 

Site: [Gibbon St] Power Pole 124319

Attribute: 5010

**Direction:** 1 - North bound, A trigger first. **Lane:** 0

Survey Duration: 0:00 Friday, 25 November 2022 => 16:18 Friday, 16 December 2022,

Zone:

File: Gibbon St 0 2022-12-16 1618.EC0 (Plus )

Identifier: QH222PMC MC5900-X13 (c) Metro Count 09Nov16

**Algorithm:** Factory default axle (v5.08)

Data type: Axle sensors - Paired (Class/Speed/Count)

**Profile:** 

Filter time: 0:00 Friday, 25 November 2022 => 16:18 Friday, 16 December 2022

(21.6795)

**Included classes:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

**Speed range:** 10 - 160 km/h.

**Direction:** North, East, South, West (bound), P = North, Lane = 0-16

**Separation:** Headway > 0 sec, Span 0 - 100 metre

Name: Default Profile

**Scheme:** Vehicle classification (AustRoads94)

**Units:** Metric (metre, kilometre, m/s, km/h, kg, tonne)

**In profile:** Vehicles = 14653 / 14857 (98.63%)



Day	Hits	RawVol	DayFac	MonFac	AdjVol - Date
0	1	635.000	1.000	1.000	635.000 - Friday, 25 November 2022
1	1	374.000	1.000	1.000	374.000 - Saturday, 26 November 2022
2	1	302.000	1.000	1.000	302.000 - Sunday, 27 November 2022
3	1	598.000	1.000	1.000	598.000 - Monday, 28 November 2022
4	1	686.000	1.000	1.000	686.000 - Tuesday, 29 November 2022
5	1	791.000	1.000	1.000	791.000 - Wednesday, 30 November 2022
6	1	808.000	1.000	1.000	808.000 - Thursday, 1 December 2022
7	1	791.000	1.000	1.000	791.000 - Friday, 2 December 2022
8	1	439.000	1.000	1.000	439.000 - Saturday, 3 December 2022
9	1	393.000	1.000	1.000	393.000 - Sunday, 4 December 2022
10	1	758.000	1.000	1.000	758.000 - Monday, 5 December 2022
11	1	867.000	1.000	1.000	867.000 - Tuesday, 6 December 2022
12	1	808.000	1.000	1.000	808.000 - Wednesday, 7 December 2022
13	1	848.000	1.000	1.000	848.000 - Thursday, 8 December 2022
14	1	936.000	1.000	1.000	936.000 - Friday, 9 December 2022
15	1	463.000	1.000	1.000	463.000 - Saturday, 10 December 2022
16	1	347.000	1.000	1.000	347.000 - Sunday, 11 December 2022
17	1	772.000	1.000	1.000	772.000 - Monday, 12 December 2022
18	1	831.000	1.000	1.000	831.000 - Tuesday, 13 December 2022
19	1	703.000	1.000	1.000	703.000 - Wednesday, 14 December 2022
20	1	825.000	1.000	1.000	825.000 - Thursday, 15 December 2022
21					Friday, 16 December 2022

Total days = 21, Coverage = 5.75%

ADT = 665.476, SD = 198.033

AADT = 665.476, SD = 198.033

### **Traffic Impact Assessment**



### Weekdays = 15, Coverage = 4.11%

AWDT = 777.133, SD = 89.564

AAWDT = 777.133, SD = 89.564

### Weekend days = 6, Coverage = 1.64%

AWET = 386.333, SD = 59.173

AAWET = 386.333, SD = 59.173



### Inglis Street ( Park St to Austin St)

**Datasets:** 

Site: [Inglis St] 50km/h speed sign

Attribute: 1498

**Direction:** 4 - West bound, A trigger first. **Lane:** 0

Survey Duration: 0:00 Friday, 25 November 2022 => 15:43 Friday, 16 December 2022,

Zone:

File: Inglis St 0 2022-12-16 1543.EC0 (Plus )

Identifier: QH37D42Z MC5900-X13 (c)MetroCount 09Nov16

**Algorithm:** Factory default axle (v5.08)

Data type: Axle sensors - Paired (Class/Speed/Count)

**Profile:** 

Filter time: 0:00 Friday, 25 November 2022 => 15:43 Friday, 16 December 2022

(21.6552)

 $\textbf{Included classes:} \qquad 1,\, 2,\, 3,\, 4,\, 5,\, 6,\, 7,\, 8,\, 9,\, 10,\, 11,\, 12$ 

**Speed range:** 10 - 160 km/h.

**Direction:** North, East, South, West (bound), P = West, Lane = 0-16

**Separation:** Headway > 0 sec, Span 0 - 100 metre

Name: Default Profile

**Scheme:** Vehicle classification (AustRoads94)

**Units:** Metric (metre, kilometre, m/s, km/h, kg, tonne)

**In profile:** Vehicles = 135893 / 135962 (99.95%)



Day	Hits	RawVol	DayFac	MonFac	AdjVol - Date	
0	1	7017.000	1.000	1.000	7017.000 - Friday, 25 November 20	)22
1	1	5610.000	1.000	1.000	5610.000 - Saturday, 26 November	2022
2	1	4904.000	1.000	1.000	4904.000 - Sunday, 27 November 20	022
3	1	6064.000	1.000	1.000	6064.000 - Monday, 28 November 20	022
4	1	6389.000	1.000	1.000	6389.000 - Tuesday, 29 November 2	2022
5	1	6293.000	1.000	1.000	6293.000 - Wednesday, 30 November	2022
6	1	6766.000	1.000	1.000	6766.000 - Thursday, 1 December 2	2022
7	1	6903.000	1.000	1.000	6903.000 - Friday, 2 December 202	22
8	1	5602.000	1.000	1.000	5602.000 - Saturday, 3 December 2	2022
9	1	5294.000	1.000	1.000	5294.000 - Sunday, 4 December 202	22
10	1	6162.000	1.000	1.000	6162.000 - Monday, 5 December 202	22
11	1	6633.000	1.000	1.000	6633.000 - Tuesday, 6 December 20	)22
12	1	6647.000	1.000	1.000	6647.000 - Wednesday, 7 December	2022
13	1	6812.000	1.000	1.000	6812.000 - Thursday, 8 December 2	2022
14	1	7102.000	1.000	1.000	7102.000 - Friday, 9 December 202	22
15	1	5637.000	1.000	1.000	5637.000 - Saturday, 10 December	2022
16	1	4689.000	1.000	1.000	4689.000 - Sunday, 11 December 20	022
17	1	6422.000	1.000	1.000	6422.000 - Monday, 12 December 20	)22
18	1	6256.000	1.000	1.000	6256.000 - Tuesday, 13 December 2	2022
19	1	6838.000	1.000	1.000	6838.000 - Wednesday, 14 December	2022
20	1	7061.000	1.000	1.000	7061.000 - Thursday, 15 December	2022
21					Friday, 16 December 20	)22

### Total days = 21, Coverage = 5.75%

ADT = 6242.905, SD = 710.288

AADT = 6242.905, SD = 710.288

### **Traffic Impact Assessment**



### Weekdays = 15, Coverage = 4.11%

AWDT = 6624.333, SD = 340.348

AAWDT = 6624.333, SD = 340.348

### Weekend days = 6, Coverage = 1.64%

AWET = 5289.333, SD = 407.520

AAWET = 5289.333, SD = 407.520



### Jenner Street ( Austin St to Saunders St)

**Datasets:** 

Site: [Jenner St] Power Pole #125326

Attribute: 5009

**Direction:** 2 - East bound, A trigger first. **Lane:** 0

Survey Duration: 0:00 Saturday, 3 December 2022 => 16:17 Friday, 16 December 2022,

Zone:

File: Jenner St 0 2022-12-16 1617.EC0 (Plus )

Identifier: QG76NMWM MC5900-X13 (c)MetroCount 09Nov16

**Algorithm:** Factory default axle (v5.08)

**Data type:** Axle sensors - Paired (Class/Speed/Count)

**Profile:** 

Filter time: 0:00 Saturday, 3 December 2022 => 16:17 Friday, 16 December

2022 (13.6786)

**Included classes:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

**Speed range:** 10 - 160 km/h.

**Direction:** North, East, South, West (bound), P = <u>East</u>, Lane = 0-16

**Separation:** Headway > 0 sec, Span 0 - 100 metre

Name: Default Profile

**Scheme:** Vehicle classification (AustRoads94)

**Units:** Metric (metre, kilometre, m/s, km/h, kg, tonne)

**In profile:** Vehicles = 2044 / 2062 (99.13%)

### **Traffic Impact Assessment**



Day	Hits	RawVol	DayFac	MonFac	AdjVol - Date
0	1	141.000	1.000	1.000	141.000 - Saturday, 3 December 2022
1	1	112.000	1.000	1.000	112.000 - Sunday, 4 December 2022
2	1	139.000	1.000	1.000	139.000 - Monday, 5 December 2022
3	1	154.000	1.000	1.000	154.000 - Tuesday, 6 December 2022
4	1	138.000	1.000	1.000	138.000 - Wednesday, 7 December 2022
5	1	193.000	1.000	1.000	193.000 - Thursday, 8 December 2022
6	1	179.000	1.000	1.000	179.000 - Friday, 9 December 2022
7	1	122.000	1.000	1.000	122.000 - Saturday, 10 December 2022
8	1	107.000	1.000	1.000	107.000 - Sunday, 11 December 2022
9	1	204.000	1.000	1.000	204.000 - Monday, 12 December 2022
10	1	130.000	1.000	1.000	130.000 - Tuesday, 13 December 2022
11	1	153.000	1.000	1.000	153.000 - Wednesday, 14 December 2022
12	1	156.000	1.000	1.000	156.000 - Thursday, 15 December 2022
13					Friday, 16 December 2022

### Total days = 13, Coverage = 3.56%

ADT = 148.308, SD = 29.514

AADT = 148.308, SD = 29.514

### Weekdays = 9, Coverage = 2.47%

AWDT = 160.667, SD = 25.758

AAWDT = 160.667, SD = 25.758

### Weekend days = 4, Coverage = 1.10%

AWET = 120.500, SD = 15.022

AAWET = 120.500, SD = 15.022



### Park Street ( Austin St to Saunders St)

**Datasets:** 

Site: [Park St] Park St - Power Pole #125158

Attribute: 5005

**Direction:** 2 - East bound, A trigger first. **Lane:** 0

Survey Duration: 0:00 Saturday, 3 December 2022 => 16:15 Friday, 16 December 2022,

Zone:

File: Park St 0 2022-12-16 1616.EC0 (Plus )

Identifier: QG74JQTN MC5900-X13 (c)MetroCount 09Nov16

**Algorithm:** Factory default axle (v5.08)

Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 0:00 Saturday, 3 December 2022 => 16:15 Friday, 16 December

2022 (13.6777)

**Included classes:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

**Speed range:** 10 - 160 km/h.

**Direction:** North, East, South, West (bound), P = <u>East</u>, Lane = 0-16

**Separation:** Headway > 0 sec, Span 0 - 100 metre

Name: Default Profile

**Scheme:** Vehicle classification (AustRoads94)

**Units:** Metric (metre, kilometre, m/s, km/h, kg, tonne)

**In profile:** Vehicles = 4588 / 4662 (98.41%)

### **Traffic Impact Assessment**



Day	Hits	RawVol	DayFac	MonFac	AdjVol - Date
0	1	126.000	1.000	1.000	126.000 - Saturday, 3 December 2022
1	1	227.000	1.000	1.000	227.000 - Sunday, 4 December 2022
2	1	334.000	1.000	1.000	334.000 - Monday, 5 December 2022
3	1	354.000	1.000	1.000	354.000 - Tuesday, 6 December 2022
4	1	382.000	1.000	1.000	382.000 - Wednesday, 7 December 2022
5	1	399.000	1.000	1.000	399.000 - Thursday, 8 December 2022
6	1	411.000	1.000	1.000	411.000 - Friday, 9 December 2022
7	1	330.000	1.000	1.000	330.000 - Saturday, 10 December 2022
8	1	209.000	1.000	1.000	209.000 - Sunday, 11 December 2022
9	1	388.000	1.000	1.000	388.000 - Monday, 12 December 2022
10	1	396.000	1.000	1.000	396.000 - Tuesday, 13 December 2022
11	1	352.000	1.000	1.000	352.000 - Wednesday, 14 December 2022
12	1	423.000	1.000	1.000	423.000 - Thursday, 15 December 2022
13					Friday, 16 December 2022

### Total days = 13, Coverage = 3.56%

ADT = 333.154, SD = 90.465

AADT = 333.154, SD = 90.465

### Weekdays = 9, Coverage = 2.47%

AWDT = 382.111, SD = 29.646

AAWDT = 382.111, SD = 29.646

### Weekend days = 4, Coverage = 1.10%

AWET = 223.000, SD = 83.805

AAWET = 223.000, SD = 83.805



### Saunders Street (Jenner St to Park St)

**Datasets:** 

Site: [Saunders St] Power Pole #372796

Attribute: 5008

**Direction:** 1 - North bound, A trigger first. **Lane:** 0

Survey Duration: 0:00 Friday, 25 November 2022 => 16:20 Friday, 16 December 2022,

Zone:

File: Saunders St 0 2022-12-16 1620.EC0 (Plus )

Identifier: QG9495NY MC5900-X13 (c)MetroCount 09Nov16

**Algorithm:** Factory default axle (v5.08)

Data type: Axle sensors - Paired (Class/Speed/Count)

**Profile:** 

Filter time: 0:00 Friday, 25 November 2022 => 16:20 Friday, 16 December 2022

(21.6807)

**Included classes:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

**Speed range:** 10 - 160 km/h.

**Direction:** North, East, South, West (bound), P = North, Lane = 0-16

**Separation:** Headway > 0 sec, Span 0 - 100 metre

Name: Default Profile

**Scheme:** Vehicle classification (AustRoads94)

**Units:** Metric (metre, kilometre, m/s, km/h, kg, tonne)

**In profile:** Vehicles = 47455 / 47548 (99.80%)



Day	Hits	RawVol	DayFac	MonFac	AdjVol - Date
0	1	2313.000	1.000	1.000	2313.000 - Friday, 25 November 2022
1	1	1805.000	1.000	1.000	1805.000 - Saturday, 26 November 2022
2	1	1561.000	1.000	1.000	1561.000 - Sunday, 27 November 2022
3	1	2067.000	1.000	1.000	2067.000 - Monday, 28 November 2022
4	1	2160.000	1.000	1.000	2160.000 - Tuesday, 29 November 2022
5	1	2168.000	1.000	1.000	2168.000 - Wednesday, 30 November 2022
6	1	2470.000	1.000	1.000	2470.000 - Thursday, 1 December 2022
7	1	2420.000	1.000	1.000	2420.000 - Friday, 2 December 2022
8	1	1974.000	1.000	1.000	1974.000 - Saturday, 3 December 2022
9	1	1877.000	1.000	1.000	1877.000 - Sunday, 4 December 2022
10	1	2181.000	1.000	1.000	2181.000 - Monday, 5 December 2022
11	1	2389.000	1.000	1.000	2389.000 - Tuesday, 6 December 2022
12	1	2291.000	1.000	1.000	2291.000 - Wednesday, 7 December 2022
13	1	2442.000	1.000	1.000	2442.000 - Thursday, 8 December 2022
14	1	2469.000	1.000	1.000	2469.000 - Friday, 9 December 2022
15	1	2308.000	1.000	1.000	2308.000 - Saturday, 10 December 2022
16	1	1527.000	1.000	1.000	1527.000 - Sunday, 11 December 2022
17	1	2280.000	1.000	1.000	2280.000 - Monday, 12 December 2022
18	1	2219.000	1.000	1.000	2219.000 - Tuesday, 13 December 2022
19	1	2275.000	1.000	1.000	2275.000 - Wednesday, 14 December 2022
20	1	2495.000	1.000	1.000	2495.000 - Thursday, 15 December 2022
21					Friday, 16 December 2022

### Total days = 21, Coverage = 5.75%

ADT = 2175.762, SD = 282.939

AADT = 2175.762, SD = 282.939

### **Traffic Impact Assessment**



### Weekdays = 15, Coverage = 4.11%

AWDT = 2309.267, SD = 133.629

AAWDT = 2309.267, SD = 133.629

### Weekend days = 6, Coverage = 1.64%

AWET = 1842.000, SD = 288.222

AAWET = 1842.000, SD = 288.222



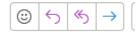
### Appendix M - Stakeholder Consultation

### Request for Stakeholder Feedback

RE: Waratah- Wynyard Council - Wynyard Sports Precinct Development



Bookings | Wynyard Bus Lines <bookings@wynyardbuslines.cc
To Richard Burk





5/12/2022

From: Richard Burk <richard.burk@trafficandcivil.com.au>

Sent: Thursday, 1 December 2022 15:45

To: Bookings | Wynyard Bus Lines < bookings@wynyardbuslines.com.au > Subject: Waratah- Wynyard Council - Wynyard Sports Precinct Development

Dear Stakeholder,

This email is to advise that Waratah – Wynard Council (WWC)has employed Traffic and Civil Services Pty Ltd(TCS) to prepare a traffic impact assessment and consult with key stakeholders on the proposed Wynyard Sports Precinct Development.

Your organisation has been identified by WWC as a key stakeholder.

### Background:

- WWC has endorsed a Master Plan for the development of the Wynyard Sports Precinct. The sport precinct is intersected by Austin Street.
- The safety of precinct users in crossing Austin Street is a key community concern.
- WWC has identified a preferred solution to address pedestrian safety and reduce the speed environment in the vicinity of the proposed sports precinct.
- The preferred solution is a road closure as indicated on the attached concept plan.
- As a consequence of the Austin Street closure through traffic would use Saunders Street.

### Your feedback:

Please provide feedback on your organisations views regarding the proposal by Friday 16<sup>th</sup> Dec 2022. Feedback in the form of dot points is sufficient and I can be contacted on 0456 535 746 if you have any queries. Feedback to TCS can be provided by way of reply to me at my email address:

Richard.burk@trafficandcivil.com.au

Thank you in anticipation of your assistance.

Regards



### Feedback received

### Re: feedback on Wynyard Sports Precinct Development road closure

Snooks, Dean

To: Richard Burk
Attachments: image001.jpg
Sent: 15/12/2022 2:37 PM

I have canvassed my team and this is the only feedback I have received which is worthy of consideration.

### The feedback was:-

The only foreseeable issue may be during football season when the Wynyard Cats have their home games. With Austin Street closed at the proposed point, and the entrance to the football grounds just being slightly south of that, it will possibly cause issues at the intersections of Austin and Park Streets, and Austin and Inglis Streets, with overflow traffic driving north along Austin Street looking for street parking near the grounds, and then trying to do a u-turn and travel back out if/when no parks are available.

Many thanks,

Dean

Dean Snooks Sergeant No. 1511 Officer in Charge WYNYARD POLICE STATION

PH: 64 777267

EMAIL: dean.snooks@police.tas.gov.au



### RE: Waratah - Wynyard Council - Wynyard Sports Prec...





Hi Richard,

Thanks for this! Its great to see some development in this area.

I have spoken to our drivers, and the only concerns they have raised is that as it appears that there is only 1 coach bay and 1 turning bay, when you have more than 2 coaches, it's going to be pretty cramped/busy.

For example, we do the transport for the Gone Nuts Fun Run and they have about 7 buses that pick up from here. All buses will be required to use the reversing bay inside the car park, as they will not be able to turn around anywhere else. And also, will have to wait on the road – which isn't a huge problem.

My only suggestions for this would be to use the area that is carpark – closest to the road as a turn around point and coach area, and use the proposed coach area as parking for cars.

The only other issue (not really) is that our contracted school runs use Austin Street, so these will need to be re-routed. This is really not an issue.

I hope that makes sense. Feel free to give me a call if you need any other information.

Kind regards,

Abi Wood (She / Her)

### Wynyard Bus Lines Pty Ltd

ABN: 76 137 089 868

### Head Office

2-6 York St | Wynyard, TAS | 7325 tel: (03) 6442 2891

Mobile: 0400 546 696

Web: www.wynyardbuslines.com.au



# Appendix N – Local Gov. (Highways) Act 1982

### **Extract**

# 14. Closure and diversion of highways

Version current from 1 January 2022 to date (accessed 12 January 2023 at 15:56)

Local Government (Highways) Act 1982

- (1) If, in the opinion of the corporation, a local highway or part of a local highway should be diverted or closed for the public benefit, in the interests of public safety or because of lack of use, it may
- (a) if it is satisfied, in the case of a diversion of a highway, that standard requirements, if applicable, have been complied with; and
- (b) not less than 28 days after a written notice of its intention to do so –
- (i) has been served on each of the owners and occupiers affected;
- (ii) has been served on the Transport Commission;
- (iii) has been displayed in a prominent position at each end of the highway; and
- (iv) has been published twice in separate issues of a local newspaper circulating in the municipality in which the highway is situated –

close or divert the highway in respect of all traffic or particular types of traffic or subject to the reservation of a footpath or some other highway that may be used only for limited purposes.

- (2) A notice under subsection (1) may apply to 2 or more highways that are connected with one another.
- (3) Subject to subsection (4), a notice under subsection (1) shall contain a map or plan showing the proposed closure or diversion to which it
- (4) A notice under subsection (1) that is required to be published in a newspaper may, instead of containing such a map or plan as is referred to in subsection (3), contain a statement of a place in the municipality in which the highway is situated where the plan may be inspected free of charge at all reasonable hours.
- (5) An interested person may, before the expiration of a notice under subsection (1), give written notice to the corporation of his objection to he proposed closure or diversion.



(6) The corporation is to refer each objection that it is notified of under subsection (5) to the Magistrates Court (Administrative Appeals

(7) The Magistrates Court (Administrative Appeals Division) has power to receive and determine the objection as if it were an application to review the decision relating to the proposed closure or diversion and, in addition to its powers under the Magistrates Court (Administrative Appeals Division) Act 2001, the Court may make a local highway order

(a) upholding the objection; or

(b) authorizing the proposed closure or diversion.

(8) An order under subsection (7)(b) may prohibit, in whole or in part, the closure or diversion authorized by the order until such conditions as may be specified in the order have been fulfilled, being conditions that the Magistrates Court (Administrative Appeals Division) considers proper to impose for the provision or preservation of the means of communication by highway or the means of access to a highway.

(9) Where the Magistrates Court (Administrative Appeals Division) makes an order under subsection (7)(b), the Minister shall, as soon as possible after the making of the order, cause a notice containing particulars of the order to be published in the Gazette

(10) A diversion of a highway that is opened under this section by a corporation is maintainable by the corporation.

