



PRECINCT TRAFFIC MANAGEMENT SUB PLAN - STAGE A - WAGGA WAGGA A2I | Albury to Illabo

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GLOSSARY

TABLE 1:	GLOSSARY
TERM	DEFINITION
ARTC	Australian Rail Track Corporation
CCS	Community Communication Strategy
CEMP	Construction Environmental Management Plan
СоА	Conditions of Approval
Construction	Includes work required to construct the CSSI as defined in the Project Description described in the documents listed in Condition A1 including commissioning trials of equipment and temporary use of any part of the CSSI but excluding Low Impact Work which is carried out or completed prior to approval of the CEMP.
CSSI	Critical State Significant Infrastructure
DPHI	NSW Department of Planning, Housing and Infrastructure
EAD	 Per CoA A1, Environmental Assessment Documentation that includes: Inland Rail – Albury to Illabo Environmental Impact Statement (ARTC, August 2022); Albury to Illabo Response to Submissions (ARTC, November 2023); Albury to Illabo Preferred Infrastructure Report (ARTC, November 2023); Albury to Illabo Preferred Infrastructure Report Response to Submissions (ARTC, February 2024); Inland Rail – Albury to Illabo (SSI-10055) Response to request for additional information – Air Quality Assessment (letter dated 1 May 2024); Part 1 - Revised Technical Paper 8: Biodiversity Development Assessment Report (WSP, February 2024).
EIS	Environmental Impact Statement
EPA	Environment Protection Authority (NSW)
EPBC Act	Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (Federal)
EPL	Environment Protection Licence
Environmental Representative (ER)	The Environmental Representative(s) for the CSSI approved by the Planning Secretary
km	Kilometre
LoS	Level of Service
m	metre
MR	Martinus Rail
NHVR	National Heavy Vehicle Regulator
NSW	New South Wales
Planning Secretary	Secretary of the NSW Department of Infrastructure, Housing and Infrastructure, or delegate
PIR	Preferred Infrastructure Report



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TERM	DEFINITION
PTMP	Precinct Traffic Management Plan (this Plan)
Primary CoA/UMM	CoA and/or UMMs that are specific to the development of this Plan
POEO Act	NSW Protection of Environment Operations Act 1997
Rail Corridor	 Land that is: a. owned, leased, managed or controlled by a public authority for the purpose of a railway or rail infrastructure facilities, or zoned under an environmental planning instrument predominantly, or b. solely for development for the purpose of a railway or rail infrastructure facilities.
RMAR	Road Maintenance Access Road
ROL	Road Occupancy Licence
Transport	Transport for New South Wales (formerly Roads and Maritime Services)
TMP	Traffic Management Plan
UMM	Updated Environmental Management Measures
VMP	Vehicle Movement Plan



REFERENCED DOCUMENTS

This Precinct Traffic Management Plan (PTMP) is a subplan to the project wide Construction Traffic, Transport, and Access Management Plan – Stage A and has been prepared by Martinus in accordance with:

- Albury to Parkes (A2P) Construction Environment Management Framework (CEMF) (ARTC).
- Construction Traffic, Transport, and Access Management Plan Stage A Albury to Illabo | A2I.
- Australian Standard 1428.1-2009 Design for access and mobility.
- Australian Standard AS 1742 Parts 1 to 14, Manual of Uniform Traffic Devices (as required).
- Australian Standard AS 1743.3-2019 Traffic control devices for works on roads.
- Australian Standard AS 3845.2:2017 Road Safety Barrier Systems and Devices.
- Australian Standard AS 3845.1:2015 Road Safety Barrier Systems and Devices.
- Austroads Guide to Temporary Traffic Management: Parts 1-10 (2021).
- Austroads Guide to Traffic Management Parts 1-13 (2020).
- Austroads Guide to Road Design Parts 1-8 (2020).
- Austroads Guide to Road Safety Parts 1-9 (2019).
- Austroads Safe System Assessment Framework (2016).
- Austroads Design Vehicles and Turning Path Templates (2023).
- Transport Management Centre Road Occupancy Manual (2015).
- NSW Speed Zoning Standard (Transport for NSW (Transport), 2023).
- Transport for NSW Traffic control at work sites Technical Manual (2022).
- Roads and Maritime Delineation Manual (2008);
- Guide to Traffic Generating Developments Version 2.2 (Roads and Traffic Authority (RTA), 2002);
- Level Crossing Closures Policy (Transport for NSW (Transport), n.d.).
- Cycling Aspects of Austroads Guides (Austroads, 2014).
- NSW Bicycle Guidelines version 1.2 (RTA, 2005).
- Planning Guidelines for Walking and Cycling (Department of Infrastructure, Planning and Natural Resources (DIPNR), 2004);
- Construction of New Level Crossing Policy (Transport, 2017a).
- Future Transport Strategy 2056 (Transport, 2018a).
- NSW Freight and Ports Plan 2018-2023 (Transport, 2018b).
- NSW Sustainable Design Guidelines Version 4.0 (Transport, 2017b).
- Railway Crossing Safety Series 2011, Plan: Establishing a Railway Crossing Safety Management Plan (RTA, 2011).
- Guides to Road Design (Austroads, 2021).
- Supplement to Austroads Guide to Road Design (Transport, 2023).
- ARTC Inland Rail Albury to Illabo (A2I) Project Technical Paper 1 Traffic and Transport (July 2022).
- Appendix C Addendum Assessment to Technical Paper 1: Traffic and Transport Parts 1 and 2 (November 2023).
- Appendix D Addendum Assessment to Technical Paper 1: Traffic and Transport (February 2024).
- All relevant TfNSW Supplements and Technical Directions.
- All relevant TfNSW Austroads Supplements.



1 INTRODUCTION

1.1 Background

This Precinct Traffic Management Plan (PTMP) has been developed to document the Temporary Traffic Management arrangements and Construction Access Routes proposed during Stage A works within the Wagga Wagga Precinct.

1.2 **Objectives**

The objectives of this PTMP are to:

- Avoid or minimise potential impacts of construction activities on road safety and the existing transport network and associated infrastructure.
- Avoid or minimise potential impacts on the community and stakeholders with respect to traffic and transport.
- Where potential impacts cannot be avoided, identification of site-specific mitigation measures to minimise and mitigate impacts on road safety, traffic flow and access.
- Demonstrate how compliance with the obligations imposed by the requirements of the Ministers Conditions of Approval with respect to traffic and transport will be achieved.

1.3 Scope of this Stage A Plan

Stage A works within the Wagga Wagga Precinct are limited to short term utility works at the following locations:

- Pearson Street Bridge enhancement site
 - Water main relocation between Urana Street and northern side of railway.
 - High pressure gas main relation within rail corridor.
- Cassidy Parade Pedestrian Bridge enhancement site
 - High pressure gas main protection within rail corridor.
- Edmondson Street Bridge enhancement site
 - High pressure gas main relation (HDD) under rail corridor and Edmondson Street.
 - o Medium pressure gas main relocation (HDD) along MacLeay Street and Erin Street.
 - String new conductors along western side of Edmondson Street.

2 LOCALITY AND EXISTING CONDITIONS

2.1 Overview

Characteristics of the key roads and intersections proposed to support the Stage A construction activities are described below for each enhancement site. Enhancement sites in the vicinity of Wagga Wagga Station share the same road network and have been combined in the following sections for:

- Cassidy Parade Pedestrian Bridge enhancement site
- Edmondson Street Bridge enhancement site.

2.2 Pearson Street Bridge Enhancement Site

2.2.1 Key Roads

Edward Street / Sturt Highway

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Edward Street / Sturt Highway, proximate the Pearson Street Bridge enhancement site.

TABLE 2: TRAFFIC AND LANE CONFIGURATIONS – EDWARD STREET / STURT HIGHWAY

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Edward Street / Sturt Highway	State-controlled road	Four-lane, two- way	~3.4m wide lanes	60km/hr	6,907, 12% HV (2021) ¹

1 10-hour (am to 10am and 2pm to 7pm) traffic survey volumes



FIGURE 1: EDWARD STREET / STURT HIGHWAY (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Edward Street / Sturt Highway, proximate the Pearson Street Bridge enhancement site.

TABLE 3: PEDESTRIAN AND CYCLIST FACILITIES – EDWARD STREET / STURT HIGHWAY

Provisions	Comment
Are footpaths provided on one or both sides of the road?	Footpaths are provided along both sides of Edward Street / Sturt Highway east of Dobney Avenue.
If yes, what is the width of the footpath(s)?	~1.2m
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	No
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Public Transport Facilities

Details of public transport facilities and services operating along Edward Street / Sturt Highway, proximate the Pearson Street Bridge enhancement site is detailed in Table 4 below.

TABLE 4: PUBLIC TRANSPORT FACILITIES – EDWARD STREET / STURT HIGHWAY

Bus stop ID	Direction	Services	Service frequency
Edward Street opposite Emblen Street	Eastbound	931	Two (2) services daily
Linder Street		S134, S136, S197	One (1) service daily
Edward Street before Docker Street	Eastbound	963	Hourly
Edward Street opposite Wagga Wagga Hospital	Eastbound	922, 924, 930, 931, 961, 962, 963, 998	Half hourly
		S130, S140, S141, S197	One (1) service daily
Wagga Wagga Base Hospital, Edward Street	Westbound	922, 931, 961, 962, 963, 998	Half hourly
		S130, S140, S141, S197	One (1) service daily

Parking Facilities

Details of parking facilities along Edward Street / Sturt Highway, proximate the Pearson Stret Bridge enhancement site is detailed in Table 5 below.

TABLE 5: PARKING FACILITIES – EDWARD STREET / STURT HIGHWAY

Location	Parking	Time of day restriction
Edward Street / Sturt Highway	Kerbside parking	No restrictions

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Pearson Street

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Pearson Street, proximate the Pearson Street Bridge enhancement site.

TABLE 6: TRAFFIC AND LANE CONFIGURATIONS – PEARSON STREET

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Pearson Street	Local road	Two-lane, two- way	~3.3m wide lanes	60km/hr	9,814, 5% HV (2021) ¹

1 10-hour (am to 10am and 2pm to 7pm) traffic survey volumes



FIGURE 2: PEARSON STREET (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Pearson Street, proximate the Pearson Street Bridge enhancement site.

TABLE 7: PEDESTRIAN AND CYCLIST FACILITIES – PEARSON STREET

Provisions	Comment
Are footpaths provided on one or both sides of the road?	No
If yes, what is the width of the footpath(s)?	-
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	No
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Details of public transport facilities and services operating along Pearson Street, proximate the Pearson Street Bridge enhancement site is detailed in Table 8 below.

TABLE 8: PUBLIC TRANSPORT FACILITIES – PEARSON STREET

Bus stop ID	Direction	Services	Service frequency
Pearson St before Edward Street	Northbound	931	Two (2) services daily
Pearson Street before Dobney Avenue	Southbound	931	Two (2) services daily
Dobney Ave before Pearson Street	Northbound	963	Hourly

Parking Facilities

Details of parking facilities along Pearson Street, proximate the Pearson Street Bridge enhancement site are detailed in Table 9 below.

TABLE 9: PARKING FACILITIES – PEARSON STREET

Location	Parking	Time of day restriction
Pearson Street	Kerbside parking	Areas of 1P (one-hour parking) parking restrictions north of Dobney Avenue

Cheshire Street

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Cheshire Street, proximate the Pearson Street Bridge enhancement site.

TABLE 10: TRAFFIC AND LANE CONFIGURATIONS – CHESHIRE STREET

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Cheshire Street	Local road	Two-lane, two- way	~12.2m wide carriageway	50km/hr	491, 5% HV (2021) ¹

1 No data available – volumes estimated as 5% of Pearson Street 1-hour with equivalent HV proportion

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FIGURE 3: CHESHIRE STREET (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Cheshire Street, proximate the Pearson Street Bridge enhancement site.

TABLE 11: PEDESTRIAN AND CYCLIST FACILITIES – CHESHIRE STREET

Provisions	Comment
Are footpaths provided on one or both sides of the road?	No
If yes, what is the width of the footpath(s)?	-
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	No
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Public Transport Facilities

Details of public transport facilities and services operating along Cheshire Street, proximate the Pearson Street enhancement site is detailed in Table 12 below.

TABLE 12: PUBLIC TRANSPORT FACILITIES – CHESHIRE STREET

Bus stop ID	Direction	Services	Service frequency
There are no public tra	ansport facilities, nor do any	public transport services opera	ate along Cheshire Street.

Parking Facilities

Details of parking facilities along Cheshire Street, proximate the Pearson Street Bridge enhancement site is detailed in Table 13 below.

TABLE 13: PARKING FACILITIES – CHESHIRE STREET

Location	Parking	Time of day restriction
Cheshire Street	Kerbside parking	No restrictions

Urana Street

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Urana Street, proximate the Pearson Street Bridge enhancement site.

TABLE 14: TRAFFIC AND LANE CONFIGURATIONS – URANA STREET

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Urana Street	Local road	Two-lane, two- way	~8.8m wide carriageway	50km/hr	4,758, 2% HV (2021) ¹

1 10-hour (5am to 10am and 2pm to 7pm) traffic survey volumes



FIGURE 4: URANA STREET (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Urana Street, proximate the Pearson Street Bridge enhancement site.

TABLE 15: PEDESTRIAN AND CYCLIST FACILITIES – URANA STREET

Provisions	Comment
Are footpaths provided on one or both sides of the road?	No
If yes, what is the width of the footpath(s)?	-
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	No
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Public Transport Facilities

Details of public transport facilities and services operating along Urana Street, proximate the Pearson Street Bridge enhancement site is detailed in Table 16 below.

TABLE 16: PUBLIC TRANSPORT FACILITIES – URANA STREET

Bus stop ID	Direction	Services	Service frequency
There are no public t	ransport facilities, nor do anv i	oublic transport services operation	ate along Urana Street.

Parking Facilities

Details of parking facilities along Urana Street, proximate the Pearson Street Bridge enhancement site is detailed in Table 17 below.

TABLE 17: PARKING FACILITIES – URANA STREET

Location	Parking	Time of day restriction
Urana Street	Kerbside parking east of Peacock Drive	No restrictions

2.2.2 Key Intersections

Overview

The following table provides an overview of key intersections proximate the Pearson Street Bridge enhancement site proposed to support the Stage A construction activities.

TABLE 18: KEY INTERSECTIONS – PEARSON STREET BRIDGE ENHANCEMENT SITE

Intersection number	Intersection	Control
1	Pearson Street / Edward Street	Priority-controlled (roundabout)
2	Pearson Street / Urana Street	Priority-controlled (roundabout)

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FIGURE 5: KEY INTERSECTIONS LOCATION

Olympic Highway / Sturt Highway / Pearson Street

Background Traffic Volumes

Background traffic volumes at the Olympic Highway / Sturt Highway / Pearson Street intersection have been obtained from 12-hour traffic surveys undertaken by *Matrix Traffic and Transport Data* on Thursday 8th June 2023. The morning (AM) and afternoon (PM) peak periods for the intersection was determined to be between 8:00am – 9:00am and between 3:30pm – 4:30pm. Recorded traffic volumes during the peak period are presented in Table 19.

TABLE 19: BACKGROUND TRAFFIC VOLUMES – OLYMPIC HIGHWAY / STURT STREET / PEARSON STREET VOLUMES – OLYMPIC HIGHWAY / STURT STREET / PEARSON

Intersection approach	AM peak volume (8:00am – 9:00am)	PM peak volume (3:30pm – 4:30pm)	Daily Volumes
Olympic Highway (west)			
Left (onto Olympic Highway)	216	141	1,445
Through (onto Sturt Highway)	294	243	2,617
Right (onto Pearson Street)	19	3	158
U-turn (onto Olympic Highway)	0	0	2
Olympic Highway / Moorong Street (north)			
Left (onto Sturt Highway)	290	227	2,515
Through (onto Pearson Street)	475	552	4,722
Right (onto Olympic Highway)	126	150	1,361



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Intersection approach	AM peak volume (8:00am – 9:00am)	PM peak volume (3:30pm – 4:30pm)	Daily Volumes
U-turn (onto Olympic Highway / Moorong Street)	0	0	1
Sturt Highway (east)			1
Left (onto Pearson Street)	89	117	1,230
Through (onto Olympic Highway)	167	314	2,536
Right (onto Olympic Highway / Moorong Street)	175	316	2,250
U-turn (onto Sturt Highway)	28	49	401
Pearson Street (south)	1		
Left (onto Olympic Highway)	28	52	443
Through (onto Olympic Highway / Moorong Street)	649	508	4,829
Right (onto Sturt Highway)	273	212	2,366
U-turn (onto Pearson Street)	6	4	85

Background Intersection Performance

An intersection delay and LOS analysis was completed by WSP as part of Appendix D Addendum to Technical Paper 1: *Traffic and Transport.* The LOS criteria adopted for assessing intersection performance is shown below.

TABLE 20: LEVEL OF SERVICE CRITERIA

Level of service	Average delay per vehicle (secs/veh)
А	<14
В	15 to 28
С	29 to 42
D	53 to 56
E	57 to 70

The results of the WSP assessment are presented below for the "2024 Base" scenarios (AM peak, midday peak and PM peak).

TABLE 21: INTERSECTION DELAY AND LOS ANALYSIS - OLYMPIC HIGHWAY / STURT STREET / PEARSON STREET

Intersection	2024 Base (AM Peak)		2024 Base (Midday Peak)		2024 Base (PM Peak)	
	Delay (sec.)	LOS	Delay (sec.)	LOS	Delay (sec.)	LOS
Olympic Highway / Sturt Highway / Pearson Street	8	A	4	А	8	А

Pearson Street / Urana Street / Glenfield Road

Background Traffic Volumes

Background traffic volumes at the Pearson Street / Urana Street / Glenfield Road intersection have been obtained from 12-hour traffic surveys undertaken by *Matrix Traffic and Transport Data* on Thursday 8th June 2023. The morning (AM) and afternoon (PM) peak periods for the intersection was determined to be between 8:00am – 9:00am and between 3:30pm – 4:30pm. Recorded traffic volumes during the peak period are presented in Table 22.

TABLE 22:	BACKGROUND TRAFFIC VOLUMES - PEARSON STREET / URANA STREET / GLENFIELD ROAD

Intersection approach	AM peak volume (8:00am – 9:00am)	PM peak volume (3:30pm – 4:30pm)	Daily Volumes
Pearson Street (north)			
Left (onto Urana Street	171	184	1,302
Through (onto Glenfield Road	428	784	6,333
U-turn (onto Pearson Street)	2	6	35
Urana Street (east)			
Left (onto Glenfield Road)	121	238	1,692
Right (onto Pearson Street)	181	106	939
U-turn (Urana Street)	0	0	2
Glenfield Road (south)		-	
Through (onto Pearson Street)	701	475	5,639
Right (Urana Street)	288	193	2,047
U-turn (onto Glenfield Road)	5	2	31

Background Intersection Performance

An intersection delay and LOS analysis was completed by WSP as part of Appendix D Addendum to Technical Paper 1: *Traffic and Transport.* The LOS criteria adopted for assessing intersection performance is shown below.

TABLE 23: LEVEL OF SERVICE CRITERIA

Level of service	Average delay per vehicle (secs/veh)
A	<14
В	15 to 28
С	29 to 42
D	53 to 56
E	57 to 70

The results of the WSP assessment are presented below for the "2024 Base" scenarios (AM peak, midday peak and PM peak).

TABLE 24:INTERSECTION DELAY AND LOS ANALYSIS - PEARSON STREET / URANA STREET /
GLENFIELD ROAD

Intersection	2024 Base (A	M Peak)	2024 Base (Midday Peak) 2024 Base (PM P		M Peak)	
	Delay (sec.)	LOS	Delay (sec.)	LOS	Delay (sec.)	LOS
Pearson Street / Urana Street / Glenfield Road	17	В	6	A	56	D

2.3 Wagga Wagga Station and Surrounds

2.3.1 Key Roads

Edward Street / Sturt Highway

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Edward Street / Sturt Highway, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 25: TRAFFIC AND LANE CONFIGURATIONS – EDWARD STREET / STURT HIGHWAY

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Edward Street /	State-controlled	Two-lane, two-	~3.4m wide	60km/hr	12,151, 8% HV
Sturt Highway	road	way	lanes		(2021) ¹

1 10-hour (5am to 10am and 2pm to 7pm) traffic survey volumes



FIGURE 6:

EDWARD STREET / STURT HIGHWAY (SOURCE: GOOGLE MAPS)

The following table provides a review of pedestrian and cyclist provisions along Edward Street / Sturt Highway, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 26: PEDESTRIAN AND CYCLIST FACILITIES – EDWARD STREET / STURT HIGHWAY

Provisions	Comment
Are footpaths provided on one or both sides of the road?	Footpaths are generally provided along both sides of Edward Street / Sturt Highway
If yes, what is the width of the footpath(s)?	~1.2m wide
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	No
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Public Transport Facilities

Details of public transport facilities and services operating along Edward Street / Sturt Highway, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 27 below.

TABLE 27: PUBLIC TRANSPORT FACILITIES – EDWARD STREET / STURT HIGHWAY

Bus stop ID	Direction	Services	Service frequency
Edward Street opposite Wagga Wagga Hospital	Eastbound	922, 924, 930, 931, 961, 962, 963, 998	Half hourly
		S130, S140, S141, S197	One (1) service daily
Wagga Wagga Base Hospital, Edward St	Westbound	922, 931, 961, 962, 963, 998	Half hourly
		S130, S140, S141, S197	One (1) service daily
Edward St opposite Yanda Lane	Westbound	931, 962, 963	Half hourly
Lane		S103, S123, S130, S179, S197	One (1) service daily
Edward St at Yanda Lane	rd St at Yanda Lane Eastbound 931, 961		Half hourly
		S103, S123, S130, S179, S197	One (1) service daily
South Wagga Public School, Edward St	Westbound 922, 931, 961, 962, 963, 969		Half hourly
		S105, S143, S144, S164, S172, S185, S187, S188, S191, S196, S203, S215, S216, S227, S248, S251	One (1) service daily
	Eastbound	931, 969	Half hourly



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Edward St opposite South Wagga Public School		S105, S143, S144, S164, S172, S185, S187, S188, S191, S196, S203, S215, S216, S227, S248, S251	One (1) service daily
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Parking Facilities

Details of parking facilities along Edward Street / Sturt Highway, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 28 below.

TABLE 28: PARKING FACILITIES – EDWARD STREET / STURT HIGHWAY

Location	Parking	Time of day restriction
Edward Street / Sturt Highway	Kerbside parking west of Edmondson Street	No restrictions

Murray Street

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Murray Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 29: TRAFFIC AND LANE CONFIGURATIONS – MURRAY STREET

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Murray Street	Local road	Two-lane, two- way	~18.5m wide carriageway	50km/hr	1,215, 8% HV (2021) ¹

1 No data available, volumes estimated as 10% of Edward Street 10-hour with equivalent HV proportion



FIGURE 7: MURRAY STREET (SOURCE: GOODLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Murray Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 30: PEDESTRIAN AND CYCLIST FACILITIES – MURRAY STREET

Provisions	Comment
Are footpaths provided on one or both sides of the road?	Footpaths are generally provided along both sides of Murray Street.
If yes, what is the width of the footpath(s)?	~2.5m wide
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	Yes
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Public Transport Facilities

Details of public transport facilities and services operating along Murray Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 31 below.

TABLE 31: PUBLIC TRANSPORT FACILITIES – MURRAY STREET

Bus stop ID	Direction	Services	Service frequency
There are no public transpor	t facilities, nor do ar	ny public transport services operat	e along Murray Street.

Parking Facilities

Details of parking facilities along Murray Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 32 below.

TABLE 32: PARKING FACILITIES – MURRAY STREET

Location	Parking	Time of day restriction
Murray Street	Kerbside parking	No restrictions

Brookong Avenue

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Brookong Avenue, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 33: TRAFFIC AND LANE CONFIGURATIONS – BROOKONG AVENUE

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT	
Brookong Avenue	Local road	Two-lane, two- way	~3.9m wide lanes	50km/hr	1,215, 8% HV (2021) ¹	
1 No data available, volumes estimated as 10% of Edward Street 10-hour with equivalent HV proportion						

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FIGURE 8: BROOKONG AVENUE (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Brookong Avenue, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 34: PEDESTRIAN AND CYCLIST FACILITIES – BROOKONG AVENUE

Provisions	Comment	
Are footpaths provided on one or both sides of the road?	Footpaths are generally provided along both sides of Brookong Avenue	
If yes, what is the width of the footpath(s)?	~1.2m wide	
Does the road currently form part of a Principal Cycle Network?	No	
Are designated on-road cycle lanes provided?	Yes	
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No	

Public Transport Facilities

Details of public transport facilities and services operating along Brookong Avenue, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 35 below.

TABLE 35: PUBLIC TRANSPORT FACILITIES – BROOKONG AVENUE

Bus stop ID	Direction	Services	Service frequency
There are no public to	ransport facilities, nor do any	public transport services opera	ate along Brookong Avenue.

Parking Facilities

Details of parking facilities along Brookong Avenue, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 36 below.

TABLE 36: PARKING FACILITIES – BROOKONG AVENUE

Location	Parking	Time of day restriction	
Brookong Avenue	Kerbside parking	No restrictions	

Fox Street

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Fox Street proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 37: TRAFFIC AND LANE CONFIGURATIONS – FOX STREET

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Fox Street	Local road	Two-lane, two- way	~17.9m wide carriageway	50km/hr	332, 3% HV (2021) ¹



FIGURE 9: FOX STREET (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Fox Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 38: PEDESTRIAN AND CYCLIST FACILITIES – FOX STREET

Provisions	Comment	
Are footpaths provided on one or both sides of the road?	Footpaths are generally provided along both sides of Fox Street	
If yes, what is the width of the footpath(s)?	~1.2m wide	
Does the road currently form part of a Principal Cycle Network?	No	
Are designated on-road cycle lanes provided?	No	
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No	

Public Transport Facilities

Details of public transport facilities and services operating along Fox Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 39 below.

TABLE 39: PUBLIC TRANSPORT FACILITIES – FOX STREET

Bus stop ID	Direction	Services	Service frequency
There are no public transport facilities, nor do any public transport services operate along Fox Street.			

Parking Facilities

Details of parking facilities along Fox Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 40 below.

TABLE 40: PARKING FACILITIES – FOX STREET

Location	Parking	Time of day restriction	
Fox Street	Kerbside parking	No restrictions	

Donnelly Avenue

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Donnelly Avenue proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 41: TRAFFIC AND LANE CONFIGURATIONS – DONNELLY AVENUE

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Donnelly Avenue	Local road	Two-lane, two- way	~6.5m wide carriageway	50km/hr	No data available

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FIGURE 10: DONNELLY AVENUE (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Donnelly Avenue, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 42: PEDESTRIAN AND CYCLIST FACILITIES – DONNELLY AVENUE

Provisions	Comment	
Are footpaths provided on one or both sides of the road?	A footpath is provided along the northern side of Donnelly Avenue	
If yes, what is the width of the footpath(s)?	~1.2m wide	
Does the road currently form part of a Principal Cycle Network?	No	
Are designated on-road cycle lanes provided?	No	
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No	

Public Transport Facilities

Details of public transport facilities and services operating along Donnelly Avenue, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 43 below.

TABLE 43: PUBLIC TRANSPORT FACILITIES – DONNELLY AVENUE

Bus stop ID	Direction	Services	Service frequency
There are no public transpor	rt facilities, nor do ar	ny public transport services operate	along Donnelly Avenue

Parking Facilities

Details of parking facilities along Donnelly Avenue, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 44 below.

TABLE 44: PARKING FACILITIES – DONNELLY AVENUE

Location	Parking	Time of day restriction	
Donnelly Avenue	Kerbside parking	No restrictions	

Little Best Street

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Little Best Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 45: TRAFFIC AND LANE CONFIGURATIONS – LITTLE BEST STREET

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Little Best Street	Local road	One-lane, one- way	~6.5m wide carriageway	50km/hr	No data available



FIGURE 11: LITTLE BEST STREET (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Little Best Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 46: PEDESTRIAN AND CYCLIST FACILITIES – LITTLE BEST STREET

Provisions	Comment
Are footpaths provided on one or both sides of the road?	A footpath is provided along the western side of Little Best Street
If yes, what is the width of the footpath(s)?	~1.2m wide
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	No
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Public Transport Facilities

Details of public transport facilities and services operating along Little Best Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 47 below.

TABLE 47: PUBLIC TRANSPORT FACILITIES – LITTLE BEST STREET

	Bus stop ID	Direction	Services	Service frequency
There are no public transport facilities, nor do any public transport services operate along Little Best Street.		te along Little Best Street.		

Parking Facilities

Details of parking facilities along Little Best Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 48 below.

TABLE 48: PARKING FACILITIES – LITTLE BEST STREET

Location	Parking	Time of day restriction
Donnelly Avenue	Kerbside parking	No restrictions

Edmondson Street

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Edmondson Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 49: TRAFFIC AND LANE CONFIGURATIONS – EDMONDSON STREET

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Edmondson Street	Local road	Two-lane, two- way	~3.1m wide lanes	50km/hr (40km/hr school zones)	10,448, 2% HV (2021) ¹

1 10-hour (5am to 10am and 2pm to 7pm) traffic survey volumes

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FIGURE 12: EDMONDSON STREET (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Edmondson Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 50: PEDESTRIAN AND CYCLIST FACILITIES – EDMONDSON STREET

Provisions	Comment
Are footpaths provided on one or both sides of the road?	Footpaths are generally provided along both sides of Edmondson Street
If yes, what is the width of the footpath(s)?	~1.2m wide
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	No
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Public Transport Facilities

Details of public transport facilities and services operating along Edmondson Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 51 below.

TABLE 51: PUBLIC TRANSPORT FACILITIES – EDMONDSON STREET

Bus stop ID	Direction	Services	Service frequency
Kildare Catholic College, Edmondson Street	Northbound	921, 930, 931, 969	Half hourly
		S100, S103, S112, S122, S123, S124, S126, S129, S130, S134, S144, S148, S149, S150, S155, S159, SS162, S167, S171, S172, S173, S174, S179, S185,	One (1) service daily



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		S187, S188, S191, S196, S197, S199, S203, S210, S211, S215, S216, S243, S250	
Edmondson Street opposite Kildare Catholic College	Southbound	921, 930, 969 S100, S103, S112, S122, S123, S124, S126, S129, S130, S134, S144, S148, S149, S150, S155, S159, SS162, S167, S171, S172, S173, S174, S179, S185, S187, S188, S191, S196, S197, S199, S203, S210, S211, S215, S216, S243, S250	Half hourly One (1) service daily

Parking Facilities

Details of parking facilities along Edmondson Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 52 below.

TABLE 52: PARKING FACILITIES – EDMONDSON STREET

Location	Parking	Time of day restriction
Edmondson Street	Kerbside parking south of Erin Street	School bus zones, 8am – 9:30am, 3:00pm – 4:00pm school days

Erin Street

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Erin Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 53: TRAFFIC AND LANE CONFIGURATIONS – ERIN STREET

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Erin Street	Local road	Two-lane, two- way	~12m wide carriageway	50km/hr	476, 2% HV (2021) ¹

1 No data available, volumes estimated as 10% Urana Street 10-hour with equivalent HV proportions





FIGURE 13: ERIN STREET (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Erin Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 54: PEDESTRIAN AND CYCLIST FACILITIES – ERIN STREET

Provisions	Comment
Are footpaths provided on one or both sides of the road?	Footpaths are generally provided along both sides of Erin Street
If yes, what is the width of the footpath(s)?	~1.2m wide
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	No
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Public Transport Facilities

Details of public transport facilities and services operating along Erin Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 55 below.

TABLE 55: PUBLIC TRANSPORT FACILITIES – ERIN STREET

Bus stop ID	Direction	Services	Service frequency
There is no bus stops located along Erin Street, proximate the Wagga Wagga and Surrounds enhancement sites, however services operate along Mitchelmore Street	Eastbound and westbound	S138, S151, S155, S196	One (1) service daily

Parking Facilities

Details of parking facilities along Erin Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 56 below.

TABLE 56: PARKING FACILITIES – ERIN STREET

Location	Parking	Time of day restriction
Erin Street	Kerbside parking	No restrictions

McLeay Street

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of MacLeay Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 57: TRAFFIC AND LANE CONFIGURATIONS – MACLEAY STREET

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
MacLeay Street	Local road	Two-lane, two- way	~21m wide carriageway	50km/hr	3,230, 9% HV (2020) ¹

1 No data available, volumes estimated as Railway Street with equivalent HV proportion



FIGURE 14: MACLEAY STREET (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Macleay Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 58: PEDESTRIAN AND CYCLIST FACILITIES – MACLEAY STREET

Provisions	Comment
Are footpaths provided on one or both sides of the road?	Footpaths are generally provided along both sides of MacLeay Street
If yes, what is the width of the footpath(s)?	~1.2m wide
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	No
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Public Transport Facilities

Details of public transport facilities and services operating along MacLeay Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 59below.

TABLE 59: PUBLIC TRANSPORT FACILITIES – MACLEAY STREET

Bus stop ID	Direction	Services	Service frequency
Wagga Wagga High School, Macleay Street	Northbound	930, 965, 969	Hourly
School, Madeay Street		S122, S123, S126, S129, S134, S138, S149, S155, S159, S160, S171, S179, S185, S187, S196, S199, S202, S203, S210, S216, S227, S248	One (1) service daily
There are no public transport facilities located along the southbound carriageway	Southbound	969	Hourly

Parking Facilities

Details of parking facilities along MacLeay Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 60 below.

TABLE 60: PARKING FACILITIES – MACLEAY STREET

Location	Parking	Time of day restriction
MacLeay Street	Kerbside parking	No restrictions

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Railway Street

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Railway Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 61: TRAFFIC AND LANE CONFIGURATIONS – RAILWAY STREET

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Railway Street	Local road	Two-lane, two- way	~12m wide carriageway	50km/hr	3,230, 9% HV (2020) ¹

1 Railway Street between Lake Albert Road and Beauty Point



FIGURE 15: RAILWAY STREET (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Railway Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 62: PEDESTRIAN AND CYCLIST FACILITIES – RAILWAY STREET

Provisions	Comment
Are footpaths provided on one or both sides of the road?	Footpaths are generally provided along both sides of Railway Street
If yes, what is the width of the footpath(s)?	~1.2m wide
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	No
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Public Transport Facilities

Details of public transport facilities and services operating along Railway Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 63 below.

TABLE 63: PUBLIC TRANSPORT FACILITIES – RAILWAY STREET

Bus stop ID	Direction	Services	Service frequency
Railway Street at Collins Street	Westbound	969	Hourly
Gueer		S103, S109, S121, S126, S130, S143, S148, S151, S155, S162, S163, S174, S188, S190	One (1) service daily

Parking Facilities

Details of parking facilities along Railway Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 64 below.

TABLE 64: PARKING FACILITIES – RAILWAY STREET

Location	Parking	Time of day restriction
Railway Street	Kerbside parking	Areas of restricted parking, 8:00am – 9:30am, 2:30pm – 4:00pm school days

Station Place

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Station Place, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 65: TRAFFIC AND LANE CONFIGURATIONS – STATION PLACE

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Station Place	Local road	Two-lane, two- way	~3.4m wide lanes	50km/hr	472, 3% HV (2021) ¹

1 No data available, volumes estimated as Smollett Street, Albury 10-hour with equivalent HV proportion





FIGURE 16: STATION PLACE (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Station Place, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 66: PEDESTRIAN AND CYCLIST FACILITIES – STATION PLACE

Provisions	Comment
Are footpaths provided on one or both sides of the road?	Footpaths are generally provided along both sides of Railway Street between Edward Street and the carpark loop. A footpath is provided along one side of Station Place around the carpark loop.
If yes, what is the width of the footpath(s)?	~1.2m to 3.5m wide.
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	No
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Public Transport Facilities

Details of public transport facilities and services operating along Station Place, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 67 below.

TABLE 67: PUBLIC TRANSPORT FACILITIES – STATION PLACE

Bus stop ID	Direction	Services	Service frequency
Wagga Wagga Station	-	998	One (1) service daily

In addition to the above, a number of coach services operate from Wagga Wagga Station.

Parking Facilities

Details of parking facilities along Station Place, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 68 below.

TABLE 68: PARKING FACILITIES – STATION PLACE

Location	Parking	Time of day restriction
Station Place	Short-term kerbside parking: 10 spaces	1P (one-hour parking) on Station Place
	Public station off-street carpark: 47 spaces (including two (2) disabled parking spaces)	Unsigned
	Access to private off-street local business parking: quantity unknown	Unknown
	Long-distance coach parking: three (3) spaces	Unsigned
	Taxi zone: one (1) space	Unsigned

Lake Albert Road

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Lake Albert Road, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 69: TRAFFIC AND LANE CONFIGURATIONS – LAKE ALBERT ROAD

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Lake Albert Road	Local road	Two-lane, two- way	~3.3m wide lanes	60km/hr	14,477, 5% HV (2020) ¹

1 Lake Albert Road between Hammond Avenue and Railway Street





FIGURE 17: LAKE ALBERT ROAD (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Lake Albert Road, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 70: PEDESTRIAN AND CYCLIST FACILITIES – LAKE ALBERT ROAD

Provisions	Comment
Are footpaths provided on one or both sides of the road?	Footpaths are generally provided along both sides of Railway Street between Edward Street and the carpark loop. A footpath is provided along one side of Station Place around the carpark loop.
If yes, what is the width of the footpath(s)?	~1.2m to 2m wide.
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	Yes
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Public Transport Facilities

Details of public transport facilities and services operating along Lake Albert Road, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 71 below.

TABLE 71: PUBLIC TRANSPORT FACILITIES – LAKE ALBERT ROAD

Bus stop ID	Direction	Services	Service frequency
Lake Albert Road after Hammond Avenue	Southbound	960, 965	Hourly
		S102, S123, S174	One (1) service daily
Lake Albert Road at Railway Street	Northbound	960, 969	Hourly
Tailway Street		S117, S181	One (1) service daily

Parking Facilities

Details of parking facilities along Lake Albert Road, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 72 below.

TABLE 72: PARKING FACILITIES – LAKE ALBERT ROAD

Location	Parking	Time of day restriction
Station Place	No parking	-

Mitchelmore Street

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Mitchelmore Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 73: TRAFFIC AND LANE CONFIGURATIONS – MITCHELMORE STREET

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Mitchelmore Street	Local road	Two-lane, two- way	~3.1m wide lanes	50km/hr (40km/hr school zones)	8,044, 1% HV (2021) ¹

1 10-hour (5am to 10am and 2pm to 7pm) traffic survey volumes





FIGURE 18: MITCHELMORE STREET (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Mitchelmore Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 74: PEDESTRIAN AND CYCLIST FACILITIES – MITCHELMORE STREET

Provisions	Comment
Are footpaths provided on one or both sides of the road?	Footpaths are generally provided along both sides of Mitchelmore Street
If yes, what is the width of the footpath(s)?	~1.2m wide
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	No
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Public Transport Facilities

Details of public transport facilities and services operating along Mitchelmore Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 75 below.

TABLE 75: PUBLIC TRANSPORT FACILITIES – MITCHELMORE STREET

Bus stop ID	Direction	Services	Service frequency
There is no bus stops located along Mitchelmore Street, proximate the Wagga Wagga and Surrounds enhancement sites, however services operate along Mitchelmore Street	Northbound and southbound	921, 930, 969	Half hourly

Parking Facilities

Details of parking facilities along Mitchelmore Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 76 below.

TABLE 76: PARKING FACILITIES – MITCHELMORE STREET

Location	Parking	Time of day restriction
Edmondson Street	Kerbside parking	No restrictions

Urana Street

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Urana Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 77: TRAFFIC AND LANE CONFIGURATIONS – URANA STREET

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Urana Street	Local road	Two-lane, two- way	~8.3m wide carriageway	50km/hr	4,758, 1% HV (2021) ¹

1 10-hour (5am to 10am and 2pm to 7pm) traffic survey volumes





FIGURE 19: URANA STREET (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Urana Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 78: PEDESTRIAN AND CYCLIST FACILITIES – URANA STREET

Provisions	Comment
Are footpaths provided on one or both sides of the road?	Footpaths are generally provided along both sides of Railway Street between Edward Street and the carpark loop. A footpath is provided along one side of Station Place around the carpark loop.
If yes, what is the width of the footpath(s)?	~1.2m
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	No
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Public Transport Facilities

Details of public transport facilities and services operating along Urana Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 79 below.

TABLE 79: PUBLIC TRANSPORT FACILITIES – URANA STREET

Bus stop IDDirectionServicesService frequencyThere are no public transport facilities, nor do any public transport services operate along Urana Street.

Parking Facilities

Details of parking facilities along Urana Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 80 below.

TABLE 80: PARKING FACILITIES – URANA STREET

Location	Parking	Time of day restriction
Urana Street	Kerbside parking east of Peacock Drive	No restrictions

Docker Street / Bourke Street

Traffic and Lane Configurations

The following table details the typical traffic and lane configurations of Docker Street / Bourke Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 81: TRAFFIC AND LANE CONFIGURATIONS – DOCKER STREET / BOURKE STREET

Road name	Road hierarchy	Road Configuration	Lane Configuration	Speed Limit	AADT
Docker Street / Bourke Street	Local road	Two-lane, two- way	~3.3m wide lanes	50km/hr	8,957, 2% HV (2021) ¹

1 10-hour (5am to 10am and 2pm to 7pm) traffic survey volumes

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FIGURE 20: DOCKER STREET / BOURKE STREET (SOURCE: GOOGLE MAPS)

Pedestrian and Cyclist Facilities

The following table provides a review of pedestrian and cyclist provisions along Docker Street / Bourke Street, proximate the Wagga Wagga and Surrounds enhancement sites.

TABLE 82: PEDESTRIAN AND CYCLIST FACILITIES – DOCKER STREET / BOURKE STREET

Provisions	Comment
Are footpaths provided on one or both sides of the road?	Footpaths are generally provided along both sides of Docker Street / Bourke Street
If yes, what is the width of the footpath(s)?	~1.2m wide
Does the road currently form part of a Principal Cycle Network?	No
Are designated on-road cycle lanes provided?	No
Is the road designated as a Bicycle Awareness Zone (BAZ)?	No

Public Transport Facilities

Details of public transport facilities and services operating along Docker Street / Bourke Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 83 below.

TABLE 83: PUBLIC TRANSPORT FACILITIES – DOCKER STREET / BOURKE STREET

Bus stop ID	Direction	Services	Service frequency
Docker Street at Hardy Street Northbound		961, 962	Half hourly
		S125, S133, S140, S200	One (1) service daily
Docker Street opposite Meurant Avenue	Southbound	931, 961, 963	Half hourly
meurant Avenue		S116, S127, S130, S136, S161	One (1) service daily

Parking Facilities

Details of parking facilities along Docker Street / Bourke Street, proximate the Wagga Wagga and Surrounds enhancement sites is detailed in Table 84 below.

TABLE 84: PARKING FACILITIES – DOCKER STREET / BOURKE STREET

Location	Parking	Time of day restriction
Docker Street / Bourke Street	Kerbside parking west of Edmondson Street	2P (two-hour parking) adjacent Wagga Wagga Base Hospital – 8:30am – 6pm Monday to Friday; 8:30am – 12:30pm

2.3.2 Key Intersections

Overview

The following table provides an overview of key intersections proximate the Wagga Wagga and Surrounds enhancement sites proposed to support the Stage A construction activities.

TABLE 85: KEY INTERSECTIONS – WAGGA WAGGA AND SURROUNDS ENHANCEMENT SITE

Intersection number	Intersection	Control
1	Edward Street / Murray Street	Traffic signals
2	Edward Street / Fox Street	Traffic signals
3	Edward Street / Best Street	Traffic signals
4	Edward Street / Station Place / Bayliss Street	Traffic signals
5	Edward Street / Lake Albert Road	Traffic signals
6	Lake Albert Road / Railway Street	Traffic signals
7	Mitchelmore Street / Urana Street	Priority-controlled (roundabout)
8	Urana Street / Bourke Street	Priority-controlled (roundabout)
9	Edward Street / Docker Street	Traffic signals





FIGURE 21: KEY INTERSECTIONS LOCATION – WAGGA WAGGA AND SURROUNDS

Edward Street / Murray Street

Background Traffic Volumes

Background traffic volumes at the Edward Street / Murray Street intersection have been obtained from 12-hour traffic surveys undertaken by *Matrix Traffic and Transport Data* on Thursday 8th June 2023. The morning (AM) and afternoon (PM) peak periods for the intersection was determined to be between 10:45am – 11:45am and between 3:15pm – 4:15pm. Recorded traffic volumes during the peak period are presented in Table 86.

TABLE 86: BACKGROUND TRAFFIC VOLUMES - EDWARD STREET / MURRAY STREET

Intersection approach	AM peak volume (10:45am – 11:45m)	PM peak volume (3:15pm – 4:15pm)	Daily Volumes
Edward Street (west)			
Left (onto Murray Street)	25	27	296
Through (onto Edward Street)	645	659	6,711
Right (onto Murray Street)	9	6	84
Murray Street (south)		1	
Left (onto Edward Street)	22	31	224
Through (onto Murray Street)	30	41	320
Right (onto Edward Street)	36	53	403
Edward Street (east)			
Left (onto Murray Street)	12	29	181
Through (onto Edward Street)	684	729	7,013



Intersection approach	AM peak volume (10:45am – 11:45m)	PM peak volume (3:15pm – 4:15pm)	Daily Volumes
Right (onto Murray Street)	30	33	39
Murray Street (north)		1	
Left (onto Edward Street)	27	26	294
Through (onto Murray Street)	25	54	327
Right (onto Edward Street)	27	24	293

Edward Street / Fox Street

Background Traffic Volumes

No data is available for the Edward Street / Fox Street intersection.

Edward Street / Best Street

Background Traffic Volumes

Background traffic volumes at the Edward Street / Best Street intersection have been obtained from 12-hour traffic surveys undertaken by *Matrix Traffic and Transport Data* on Thursday 8th June 2023. The morning (AM) and afternoon (PM) peak periods for the intersection was determined to be between 8:15am – 9:15am and between 3:15pm – 4:15pm. Recorded traffic volumes during the peak period are presented in Table 87.

TABLE 87: BACKGROUND TRAFFIC VOLUMES - EDWARD STREET / BEST STREET

Intersection approach	AM peak volume (8:00am – 9:00am)	PM peak volume (3:30pm – 4:30pm)	Daily Volumes
Edward Street (west)			
Left (onto Best Street)	80	79	752
Through (onto Edward Street)	495	644	6,440
Right (onto Best Street)	68	49	530
Best Street (north)			
Left (onto Edward Street)	30	39	368
Through (onto Best Street)	233	317	2,859
Right (onto Edward Street)	82	142	1,333
Edward Highway (east)		·	
Left (onto Best Street)	67	151	1,102
Through (onto Edward Street)	476	608	6,019
Right (onto Best Street)	48	54	547



Intersection approach	AM peak volume (8:00am – 9:00am)	PM peak volume (3:30pm – 4:30pm)	Daily Volumes
Best Street (south)			
Left (onto Edward Street)	178	129	883
Through (onto Best Street)	441	317	2,631
Right (onto Edward Street)	184	167	1,282

Background Intersection Performance

An intersection delay and LOS analysis was completed by WSP as part of Appendix D Addendum to Technical Paper 1: *Traffic and Transport.* The LOS criteria adopted for assessing intersection performance is shown below.

TABLE 88: LEVEL OF SERVICE CRITERIA

Level of service	Average delay per vehicle (secs/veh)
А	<14
В	15 to 28
С	29 to 42
D	53 to 56
E	57 to 70

The results of the WSP assessment are presented below for the "2024 Base" scenarios (AM peak, midday peak and PM peak).

TABLE 89: INTERSECTION DELAY AND LOS ANALYSIS – EDWARD STREET / BEST STREET

Intersection	2024 Base (A	M Peak)	2024 Base (Midday Peak) 2024 Base (PM F		PM Peak)	
	Delay (sec.)	LOS	Delay (sec.)	LOS	Delay (sec.)	LOS
Edward Street / Best Street	43	D	34	С	52	D

Edward Street / Station Place / Bayliss Street

Background Traffic Volumes

Background traffic volumes at the Edward Street / Station Place / Bayliss Street intersection have been obtained from 12hour traffic surveys undertaken by *Matrix Traffic and Transport Data* on Thursday 8th June 2023. The morning (AM) and afternoon (PM) peak periods for the intersection was determined to be between 11:00am – 12:00pm and between 3:15pm – 4:15pm. Recorded traffic volumes during the peak period are presented in Table 90.

TABLE 90: BACKGROUND TRAFFIC VOLUMES – EDWARD STREET / STATION PLACE / BAYLISS STREET

Intersection approach	AM peak volume (11:00am – 12:00pm)	PM peak volume (3:15pm – 4:15pm)	Daily Volumes
Edward Street (west)			
Left (onto Bayliss Street)	173	145	1,364



Intersection approach	AM peak volume (11:00am – 12:00pm)	PM peak volume (3:15pm – 4:15pm)	Daily Volumes		
Through (onto Edward Street)	576	673	6,350		
Right (onto Station Place)	53	104	705		
Bayliss Street (north)	1				
Left (onto Edward Street)	118	83	976		
Through (onto Station Place)	26	30	237		
Right (onto Edward Street)	149	118	1,266		
Edward Street (east)					
Left (onto Station Place)	15	29	215		
Through (onto Edward Street)	560	627	5,935		
Right (onto Bayliss Street)	48	50	612		
Station Place (south)					
Left (onto Edward Street)	47	96	590		
Through (onto Bayliss Street)	30	38	272		
Right (onto Edward Street)	26	63	400		

Background Intersection Performance

An intersection delay and LOS analysis was completed by WSP as part of Appendix D Addendum to Technical Paper 1: *Traffic and Transport.* The LOS criteria adopted for assessing intersection performance is shown below.

TABLE 91: LEVEL OF SERVICE CRITERIA

Level of service	Average delay per vehicle (secs/veh)
А	<14
В	15 to 28
С	29 to 42
D	53 to 56
E	57 to 70

The results of the WSP assessment are presented below for the "2024 Base" scenarios (AM peak, midday peak and PM peak).

TABLE 92:INTERSECTION DELAY AND LOS ANALYSIS – EDWARD STREET / STATION PLACE / BAYLISSSTREET

Intersection	2024 Base (A	M Peak)	2024 Base (N	/lidday Peak)	2024 Base (P	M Peak)
	Delay (sec.)	LOS	Delay (sec.)	LOS	Delay (sec.)	LOS
Edward Street / Station Place / Bayliss Street	31	С	24	В	27	В

Edward Street / Lake Albert Road

Background Traffic Volumes

Background traffic volumes at the Edward Street / Lake Albert Road intersection have been obtained from 12-hour traffic surveys undertaken by *Matrix Traffic and Transport Data* on Thursday 8th June 2023. The morning (AM) and afternoon (PM) peak periods for the intersection was determined to be between 8:15am – 9:15pm and between 4:30pm – 5:30pm. Recorded traffic volumes during the peak period are presented in Table 93.

TABLE 93: BACKGROUND TRAFFIC VOLUMES – EDWARD STREET / LAKE ALBERT ROAD

Intersection approach	AM peak volume (8:15am – 9:15am)	PM peak volume (4:30pm – 5:30pm)	Daily Volumes
Edward Street (west)			
Left (onto Lake Albert Road (north))	5	21	236
Through (onto Edward Street)	318	393	4,505
Right (onto Lake Albert Road (south))	68	211	1,398
Lake Albert Road (north)			
Left (onto Edward Street)	291	595	4,623
Through (onto Lake Albert Road (south))	170	552	3,414
Right (onto Edward Street)	26	33	416
Edward Street (east)			
Left (onto Lake Albert Road (south))	104	168	1,122
Through (onto Edward Street)	463	536	5,209
Right (onto Lake Albert Road (north))	464	501	4,455
Lake Albert Road (south)			
Left (onto Edward Street)	146	134	1,305
Through (onto Lake Albert Road (north))	662	372	4,435
Right (onto Edward Street)	158	129	1,412

Background Intersection Performance

An intersection delay and LOS analysis was completed by WSP as part of Appendix D Addendum to Technical Paper 1: *Traffic and Transport.* The LOS criteria adopted for assessing intersection performance is shown below.

TABLE 94: LEVEL OF SERVICE CRITERIA

Level of service	Average delay per vehicle (secs/veh)
А	<14
В	15 to 28
С	29 to 42
D	53 to 56
E	57 to 70

The results of the WSP assessment are presented below for the "2024 Base" scenarios (AM peak, midday peak and PM peak).

TABLE 95: INTERSECTION DELAY AND LOS ANALYSIS – EDWARD STREET / LAKE ALBERT ROAD

Intersection	2024 Base (AM Peak)		2024 Base (Midday Peak)		2024 Base (PM Peak)	
	Delay (sec.)	LOS	Delay (sec.)	LOS	Delay (sec.)	LOS
Edward Street / Lake Albert Road	66	E	55	D	84	F

Lake Albert Road / Railway Street

Background Traffic Volumes

Background traffic volumes at the Lake Albert Road / Railway Street intersection have been obtained from 12-hour traffic surveys undertaken by *Matrix Traffic and Transport Data* on Thursday 8th June 2023. The morning (AM) and afternoon (PM) peak periods for the intersection was determined to be between 8:15am – 9:15pm and between 4:30pm – 5:30pm. Recorded traffic volumes during the peak period are presented in Table 96.

TABLE 96: BACKGROUND TRAFFIC VOLUMES – LAKE ALBERT ROAD / RAILWAY STREET

Intersection approach	AM peak volume (8:15am – 9:15am)	PM peak volume (4:30pm – 5:30pm)	Daily Volumes
Edward Street (west)			
Left (onto Lake Albert Road (north))	5	21	236
Through (onto Edward Street)	318	393	4,505
Right (onto Lake Albert Road (south))	68	211	1,398
Lake Albert Road (north)			
Left (onto Edward Street)	291	595	4,623
Through (onto Lake Albert Road (south))	170	552	3,414



Intersection approach	AM peak volume (8:15am – 9:15am)	PM peak volume (4:30pm – 5:30pm)	Daily Volumes		
Right (onto Edward Street)	26	33	416		
Edward Street (east)					
Left (onto Lake Albert Road (south))	104	168	1,122		
Through (onto Edward Street)	463	536	5,209		
Right (onto Lake Albert Road (north))	464	501	4,455		
Lake Albert Road (south)					
Left (onto Edward Street)	146	134	1,305		
Through (onto Lake Albert Road (north))	662	372	4,435		
Right (onto Edward Street)	158	129	1,412		

Background Intersection Performance

An intersection delay and LOS analysis was completed by WSP as part of Appendix D Addendum to Technical Paper 1: *Traffic and Transport.* The LOS criteria adopted for assessing intersection performance is shown below.

TABLE 97: LEVEL OF SERVICE CRITERIA

Level of service	Average delay per vehicle (secs/veh)
А	<14
В	15 to 28
С	29 to 42
D	53 to 56
E	57 to 70

The results of the WSP assessment are presented below for the "2024 Base" scenarios (AM peak, midday peak and PM peak).

TABLE 98: INTERSECTION DELAY AND LOS ANALYSIS - LAKE ALBERT ROAD / RAILWAY STREET

Intersection	2024 Base (A	M Peak)	2024 Base (N	/lidday Peak)	2024 Base (P	'M Peak)
	Delay (sec.)	LOS	Delay (sec.)	LOS	Delay (sec.)	LOS
Edward Street / Lake Albert Road	66	E	55	D	84	F

Mitchelmore Street / Urana Street

Background Traffic Volumes

Background traffic volumes at the Mitchelmore Street / Urana Street intersection have been obtained from 12-hour traffic surveys undertaken by *Matrix Traffic and Transport Data* on Thursday 8th June 2023. The morning (AM) and afternoon (PM) peak periods for the intersection was determined to be between 8:15am – 9:15pm and between 4:30pm – 5:30pm. Recorded traffic volumes during the peak period are presented in Table 99.

TABLE 99: BACKGROUND TRAFFIC VOLUMES - MITCHELMORE STREET / URANA STREET

Intersection approach	AM peak volume (8:15am – 9:15am)	PM peak volume (4:30pm – 5:30pm)	Daily Volumes
Urana Street (west)			
Left (onto Mitchelmore Street))	64	54	532
Through (onto Urana Street)	232	212	1,905
Right (onto Mitchelmore Street)	22	60	310
Mitchelmore Street (north)			
Left (onto Urana Street)	40	34	300
Through (onto Mitchelmore Street)	179	433	2,525
Right (onto Urana Street)	89	94	607
Urana Street (east)			
Left (onto Mitchelmore Street)	44	56	376
Through (onto Urana Street)	333	251	2,173
Right (onto Mitchelmore Street)	82	37	407
Mitchelmore Street (south)			
Left (onto Urana Street)	60	23	347
Through (onto Mitchelmore Street)	372	200	2,258
Right (onto Urana Street)	109	57	647

Background Intersection Performance

An intersection delay and LOS analysis was completed by WSP as part of Appendix D Addendum to Technical Paper 1: *Traffic and Transport.* The LOS criteria adopted for assessing intersection performance is shown below.

TABLE 100: LEVEL OF SERVICE CRITERIA

Level of service	Average delay per vehicle (secs/veh)
A	<14
В	15 to 28
С	29 to 42
D	53 to 56
E	57 to 70

The results of the WSP assessment are presented below for the "2024 Base" scenarios (AM peak, midday peak and PM peak).

TABLE 101: INTERSECTION DELAY AND LOS ANALYSIS - MITCHELMORE STREET / URANA STREET

Intersection	2024 Base (AM Peak)		2024 Base (Midday Peak)		2024 Base (PM Peak)	
	Delay (sec.)	LOS	Delay (sec.)	LOS	Delay (sec.)	LOS
Mitchelmore Street / Urana Street	3	А	3	А	3	Α

Urana Street / Bourke Street

Background Traffic Volumes

Background traffic volumes at the Urana Street / Bourke Street intersection have been obtained from 12-hour traffic surveys undertaken by *Matrix Traffic and Transport Data* on Thursday 8th June 2023. The morning (AM) and afternoon (PM) peak periods for the intersection was determined to be between 8:00am – 9:00pm and between 3:00pm – 4:00pm. Recorded traffic volumes during the peak period are presented in Table 102.

TABLE 102: BACKGROUND TRAFFIC VOLUMES – URANA STREET / BOURKE STREET

Intersection approach	AM peak volume (8:15am – 9:15am)	PM peak volume (4:30pm – 5:30pm)	Daily Volumes
Urana Street (west)			
Left (onto Bourke Street))	224	177	1,708
Through (onto Urana Street)	198	191	1,602
Right (onto Bourke Street)	12	21	138
U-turn (onto Urana Street)	0	0	7
Bourke Street (north)	•	•	
Left (onto Urana Street)	51	121	833



Intersection approach	AM peak volume (8:15am – 9:15am)	PM peak volume (4:30pm – 5:30pm)	Daily Volumes
Through (onto Bourke Street)	199	464	3,308
Right (onto Urana Street)	82	141	1,159
U-turn (onto Bourke Street)	22	40	261
Urana Street (east)			
Left (onto Bourke Street)	26	37	341
Through (onto Urana Street)	183	159	1,417
Right (onto Bourke Street)	221	128	1,313
U-turn (onto Urana Street)	1	0	2
Bourke Street (south)		-	-
Left (onto Urana Street)	51	30	201
Through (onto Bourke Street)	687	420	4,146
Right (onto Urana Street)	32	56	311
U-turn (onto Bourke Street)	3	1	19

Background Intersection Performance

An intersection delay and LOS analysis was completed by WSP as part of Appendix D Addendum to Technical Paper 1: *Traffic and Transport.* The LOS criteria adopted for assessing intersection performance is shown below.

TABLE 103: LEVEL OF SERVICE CRITERIA

Level of service	Average delay per vehicle (secs/veh)
A	<14
В	15 to 28
С	29 to 42
D	53 to 56
E	57 to 70

The results of the WSP assessment are presented below for the "2024 Base" scenarios (AM peak, midday peak and PM peak).

TABLE 104: INTERSECTION DELAY AND LOS ANALYSIS – URANA STREET / BOURKE STREET

Intersection	2024 Base (AM Peak)		2024 Base (Midday Peak)		2024 Base (PM Peak)	
	Delay (sec.)	LOS	Delay (sec.)	LOS	Delay (sec.)	LOS
Mitchelmore Street / Urana Street	11	A	3	A	4	Α

Edward Street / Docker Street

Background Traffic Volumes

Background traffic volumes at the Docker Street / Edward Street intersection have been obtained from 12-hour traffic surveys undertaken by *Matrix Traffic and Transport Data* on Thursday 8th June 2023. The morning (AM) and afternoon (PM) peak periods for the intersection was determined to be between 8:15am – 9:15pm and between 3:15pm – 4:15pm. Recorded traffic volumes during the peak period are presented in Table 105.

TABLE 105: BACKGROUND TRAFFIC VOLUMES – EDWARD STREET / DOCKER STREET

Intersection approach	AM peak volume (8:15am – 9:15am)	PM peak volume (3:15pm – 4:15pm)	Daily Volumes		
Edward Street (west)					
Left (onto Docker Street))	218	147	1,621		
Through (onto Edward Street)	473	469	5,369		
Right (onto Docker Street)	150	106	1,027		
Docker Street (north)					
Left (onto Edward Street)	40	30	401		
Through (onto Docker Street)	237	371	3,160		
Right (onto Edward Street)	167	273	2,512		
Edward Street (east)					
Left (onto Docker Street)	105	115	1,422		
Through (onto Edward Street)	450	659	5,870		
Right (onto Docker Street)	57	78	699		
Docker Street (south)					
Left (onto Edward Street)	71	106	728		
Through (onto Docker Street)	483	417	3,851		
Right (onto Edward Street)	178	238	2,067		

Background Intersection Performance

An intersection delay and LOS analysis was completed by WSP as part of Appendix D Addendum to Technical Paper 1: *Traffic and Transport.* The LOS criteria adopted for assessing intersection performance is shown below.

TABLE 106: LEVEL OF SERVICE CRITERIA

Level of service	Average delay per vehicle (secs/veh)
А	<14
В	15 to 28
С	29 to 42
D	53 to 56
E	57 to 70

The results of the WSP assessment are presented below for the "2024 Base" scenarios (AM peak, midday peak and PM peak).

TABLE 107: INTERSECTION DELAY AND LOS ANALYSIS – EDWARD STREET / DOCKER STREET

Intersection	2024 Base (AM Peak)		2024 Base (Midday Peak)		2024 Base (PM Peak)	
	Delay (sec.)	LOS	Delay (sec.)	LOS	Delay (sec.)	LOS
Docker Street / Edward Street	75	F	35	С	55	D



3 PROPOSED ARRANGEMENTS

3.1 Pearson Street Bridge Enhancement Site

3.1.1 Site Location

The Pearson Street Bridge enhancement site encompasses areas within the rail corridor bound by Fernleigh Road, Glenfield Road / Pearson Street, Urana Street and Cheshire Street.

3.1.2 Works Required

The Stage A scope of work at the Pearson Street Bridge enhancement site comprise of the following:

- Site establishment including establishment of site compound on Urana Street, adjacent the rail corridor, and construction of site accesses from Urana Street and Cheshire Street.
- Watermain relocation works.
- High pressure gas main relocation works.

3.1.3 Timing and Duration

The proposed arrangements are planned to be implemented from early February 2025 and remain in operation until late August 2025.

3.1.4 Drawings

There will be no long-term changes to the existing conditions on the roads in the vicinity of the Pearson Street Bridge enhancement site resulting from the Stage A works

A list of expected short-term traffic guidance schemes expected to facilitate the works as detailed within Section 3.1.14 are provided in Appendix A.

3.1.5 Operating Conditions

There will be no long-term changes to the existing conditions on the roads in the vicinity of the Pearson Street Bridge enhancement site resulting from the Stage A works.

Temporary speed limit reductions and/or short-term traffic control (intermittent stops) may be implemented along Cheshire Street and/or Urana Street to facilitate the safe and efficient movement of construction heavy vehicles (refer to Section 3.1.14).

3.1.6 Construction Traffic

The peak volume of additional traffic generated by the Stage A works required to access the worksite is expected to be in the order of three (3) vehicles per hour, broken down as follows:

TABLE 108: CONSTRUCTION TRAFFIC – PEARSON STREET BRIDGE ENHANCEMENT SITE

Scope	Light vehicles (vehicles per hour)	Heavy vehicles (vehicles per hour)
Site establishment	Two (2)	One (1)
Watermain relocation works	Two (2)	One (1)
High pressure gas main relocation works	Two (2)	One (1)

For the Stage A works, a 12.5m single unit truck is expected to be the predominant type of vehicle accessing the worksite however, occasional use of larger vehicles will be required to facilitate the works. The scope of heavy vehicle requirements is detailed in Table 109 below.

TABLE 109:CONSTRUCTION HEAVY VEHICLE REQUIREMENTS – PEARSON STREET BRIDGEENHANCEMENT SITE

Site access	Vehicle type	Scope	Frequency
Gate P1 – Existing access off Cheshire Street	cess 12.5m single unit truck Delivery of smaller plant and materia traffic control		Daily
	19.0m truck and dog	Delivery of ballast and other large material under traffic control	
	19.0m semi-trailer	Delivery of large plant items under traffic control	≤ one (1) per week
Gate P2 – Existing access off Urana Street	12.5m single unit truck	Delivery of smaller items of plant and materials	Daily
	19.0m truck and dog	Delivery of ballast and other large material	≤ one (1) per week

3.1.7 Site Access

Overview

Access to the Pearson Street Bridge enhancement site will be via existing access points located on Cheshire Street and Urana Street. A summary of permitted movements and methods of control at site access locations is provided below in Table 110, with further details provided in subsequent sections of this report.

TABLE 110: SITE ACCESS DETAILS – PEARSON STREET BRIDGE ENHANCEMENT SITE

Access	Site Entry/Exit	Vehicle type	Permitted Movements	Control
Gate P1 – Existing access off Cheshire Street	Entry and exit	Up 12.5m single unit truck 19.0m truck and dog 19.0m semi-trailer		Traffic control – refer to Section 3.1.15
Gate P2 – Existing access off Urana Street	Entry and exit	Up 12.5m single unit truck 19.0m truck and dog	Left in, right out	Give way

Where larger vehicle types are required to access the site, further assessment will be undertaken to determine the suitability of site access controls.

Gate P1 – Cheshire Street at Pearson Street

Located on Cheshire Street, Gate P1 is an existing access that will provide access to the Pearson Street Bridge enhancement site.





FIGURE 22: GATE P1 – CHESHIRE STREET

Details of permitted movements and methods of control at Gate P1 is summarised below in Table 111.

TABLE 111: SITE	E ACCESS DETAILS	6 – GATE P1		
Access	Site Entry/Exit	Vehicle type	Permitted Movements	Control
Gate P1 – Existing access off Cheshire	Entry and exit	Up 12.5m single unit truck	Right in, left out	Traffic control
Street		19.0m truck and dog	_	
		19.0m semi-trailer	-	



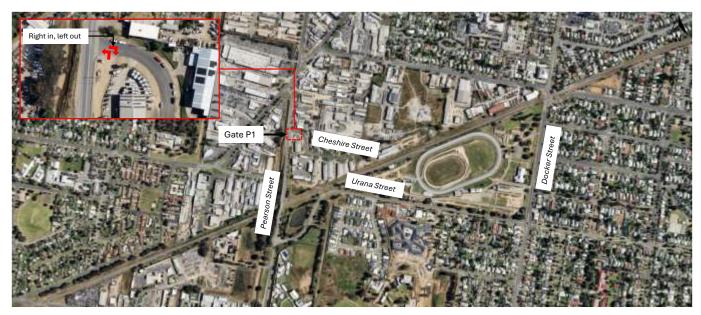


FIGURE 23: SITE ACCESS DETAILS – GATE P1

As detailed in Table 111, construction vehicles will access Gate P1 under traffic control. To minimise any potential impacts to the road network, the movement of construction vehicles will be scheduled outside of network peak traffic hours where possible, with traffic control implementations subject to the times permitted under the Road Occupancy License (ROL) issued by the relevant authority.

Gate P2 – Urana Street ~270m east of Pearson Street / Glenfield Street / Urana Street intersection

Located on Urana Street approximately 270m east of the Pearson Street / Glenfield Street / Urana Street intersection, Gate P2 is an existing access that will provide access to the Pearson Street Bridge enhancement site.



FIGURE 24: GATE P2 – URANA STREET Details of permitted movements and methods of control at Gate P2 is summarised below in Table 112.



TABLE 112: SITE ACCESS DETAILS – GATE P2

Access	 	Permitted Movements	Control
Gate P2 – Existing access off Urana Street	Up 12.5m single unit truck 19.0m truck and dog	Left in, right out	Give way

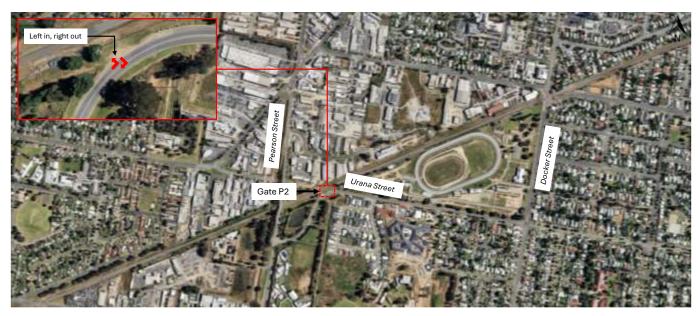


FIGURE 25: SITE ACCESS DETAILS – GATE P2

To ensure the safety of construction vehicles entering and exiting via the Gate P2, an assessment has been undertaken for determining controls for managing truck movements where auxiliary lanes are not provided (existing access point), depending on traffic volumes, sight distance, number of truck movements and traffic speed. This assessment aims to adopt the methodology presented within Section 5.2.3.3 of TfNSW's *Technical Manual – Traffic control at work sites* and is presented below.

TABLE 113:SITE ACCESS ASSESSMENT CRITERIA – GATE P2

Site Access Assessment				
Location:	Urana Street approximately 270m east of Pearson Street / Glenfield Street / Urana Street intersection			
AADT:	4,758			
Speed limit:	50km/hr			
Number of truck movements per shift:	Less than 20			
Dimension D:	50m (2D = 100m)			
Available sight distance	Greater than 2D			





FIGURE 26: EASTBOUND VIEW APPROACHING GATE P2 (~100M FROM ACCESS POINT)



FIGURE 27: WESTBOUND VIEW APPROACHING GATE P2 (~100M FROM ACCESS POINT)

As available sight distance approaching Gate P2 is greater than 2D (100m), an assessment has been undertaken using Table 5-7 of TfNSW's *Technical Manual – Traffic control at work sites* has been undertaken and is detailed in Table 114 below.

TABLE 114:GATE P2 – PROVIDING FOR TRUCK MOVEMENTS WHERE SIGHT DISTANCE IS GREATER THAN2D (TABLE 5-7 OF TFNSW'S TECHNICAL MANUAL – TRAFFIC CONTROL AT WORK SITES)

ADT	300 – 1,500		More than 1,500	
Number of truck movements per shift	Less than or equal to 20	Greater than 20	Less than or equal to 20	Greater than 20
Traffic control required		Yes	Yes Note 1*	Yes Note 2*
VMP required		Yes		Yes
Warning signs required during shifts		Yes		Yes

Note 1: Where approach speed is greater than 95km/hr

Note 2: If acceleration and deceleration cannot occur on shoulders

No controls are warranted at Gate P2 to facilitate the safe and efficient movement of construction vehicles into and out of the access, and as such access will operate under a typical "Give way" arrangement. Notwithstanding this, traffic control may be implemented to facilitate alternative movements at the access (i.e., reverse into or out of the site) – refer to Section 3.1.14.

3.1.8 Construction Vehicle Access Routes

Construction heavy vehicles will access the worksite via the routes identified within Environmental Approval Documentation, with the routes detailed below in Table 115.

TABLE 115:CONSTRUCTION VEHICLE ACCESS ROUTES – PEARSON STREET BRIDGE ENHANCEMENTSITE

Site Access	Direction	Access Route	Largest suitable vehicle type	
Gate P1	Inbound	Edward Street, left/right turn onto Pearson Street, through onto Dobney Avenue, left turn onto Pearson Street, left turn onto Cheshire Street.	Up to 19.0m semi-trailer ¹	
	Outbound	Cheshire Street, right turn onto Pearson Street, right turn onto Dobney Avenue, through onto Pearson Street, left/right turn onto Edward Street.		
through onto Dobney Ave		Edward Street, left/right turn onto Pearson Street, through onto Dobney Avenue, left turn onto Pearson Street, left turn onto Urana Street.	Up to 19.0m truck and dog	
	Outbound	Urana Street, left turn onto Pearson Street, right turn onto Dobney Avenue, through onto Pearson Street, left/right turn onto Edward Street.		

Traffic control is required to facilitate access manoeuvres into and out of Gate P1 - refer to Section 3.3.14

These access routes are depicted in Figure 28 and Figure 29.





FIGURE 28: CONSTRUCTION VEHILCE ACCESS ROUTES – GATE P1



FIGURE 29: CONSTRUCTION VEHILCE ACCESS ROUTES – GATE P2

As a measure of monitoring any impacts to road infrastructure along construction vehicle access routes, road dilapidation surveys will be undertaken prior to the use of an identified route.

A swept path analysis has also been undertaken for key movements along the construction vehicle access routes, demonstrating the ability for construction vehicle to safely manoeuvre along the identified routes, and is detailed in Section 4.3. Where larger vehicle types are required to access the site, further assessment will be undertaken to determine the suitability of identified access routes.

3.1.9 Impact on Traffic Flow

Key Roads

To evaluate the impact of the Stage A works on key roads, an assessment of road (mid-block) performance has been undertaken in relation to Level of Service (LOS) for the key road links with and without traffic generated by the Stage A works. The assessment has been carried out using a combination of peak hour background traffic volumes, in conjunction with expected peak hour construction traffic volumes to determine an operating LOS for key road links for both the "without construction traffic" and "with construction traffic" scenarios.

Road link LOS for key road links have been determined using Table 4.4 from the *Guide to Traffic Generating Developments* (*RTA 2002*), which has been replicated below.

TABLE 116:LINK LOS ADAPTED FROM THE GUIDE TO TRAFFIC GENERATING DEVELOPMENT (2002)TABLE 4.4

LOS	One lane per direction (veh/hr)	Two lanes per direction (veh/hr)
LOS A	200	900
LOS B	380	1,400
LOS C	600	1,800
LOS D	900	2,200
LOS E	More than 900	2,800

While it is recognised that TfNSW's *Guide to Transport Impact Assessment* has superseded the *Guide to Traffic Generating Developments*, the process of assessment is considered appropriate in quantifying potential impacts to traffic flow and the road network resulting from the Stage A works. It is also noted that this approach is consistent with the Link LOS assessment undertaken within *Technical Paper 1: Traffic and Transport* and its addendums.

The link LOS assessment for the Pearson Street Bridge enhancement site is shown in Table 117 and Table 118 below. It should be noted that to determine future year background traffic demands (2025), an annual growth rate of 2% (compounding) has been applied to the recorded background traffic volumes (refer to Section 2)

TABLE 117: AM PEAK LINK LOS ASSESSMENT – PEARSON STREET BRIDGE

Road link	No. of lanes (per direction)	Direction	AM Background volume (one way)	Without construction traffic LOS	Construction volume (one way)	Total volume	Percent increase in volumes	With project LOS
Edward Street/		Eastbound	550	А		553	0.6%	А
Sturt Highway at Pearson Street	2	Westbound	478	A		481	0.6%	A
Pearson Street at Edward Street	2	Northbound	995	В		998	0.3%	В
		Southbound	613	А	3	616	0.5%	А
Cheshire Street at Pearson Street ^{1,2}	1	Eastbound	49	А		52	6.1%	А
		Westbound	49	А		52	6.1%	А
Urana Street at Pearson Street	1	Eastbound	478	С		481	0.6%	С
		Westbound	314	В		317	1%	В

1: Peak hour volume not available, assumed 10% of AADT

2: Two-way data not available, assumed 50/50 traffic split during peak hours

Road name	No. of lanes (per direction)	Direction	PM Background volume (one way)		Construction volume (one way)	Total volume	Percent increase in volumes	With project LOS
Edward Street/		Eastbound	403	А		406	0.7%	А
Sturt Highway at Pearson Street	2	Westbound	828	A		831	0.4%	A
Pearson Street at Edward Street		Northbound	807	А		810	0.4%	А
	2	Southbound	703	А	3	706	0.4%	А
Cheshire Street ^{1,2} 1	1	Eastbound	49	А		52	6.1%	А
	·	Westbound	49	А		52	6.1%	А
Urana Street at Pearson Street	1	Eastbound	358	В		361	0.8%	В
		Westbound	392	С		395	0.8%	С

TABLE 118: PM PEAK LINK LOS ASSESSMENT – PEARSON STREET BRIDGE

1: Peak hour volume not available, assumed 10% of AADT

2: Two-way data not available, assumed 50/50 traffic split during peak hours

The link LOS assessment for the Pearson Street Bridge enhancement site shows that with construction traffic, there is no change is LOS from the "without construction traffic scenario" during the AM and PM peak periods. As a result, no significant impact to road operation or performance are expected to result from the traffic generated by the Stage A works. As such, mitigations are not considered warranted as a result of the Stage A works.

Key Intersections

To evaluate the impact of the Stage A works on key intersections, a first principles assessment has been undertaken. To undertake this assessment, consideration has been given to the volume of construction traffic associated with the Stage A works within the Pearson Street Bridge enhancement site.

As detailed within Section 3.1.6, a peak of three (3) construction vehicles per hour (one (1) vehicle every 20 minutes) is expected to be generated during the Stage A works. At signalised intersections, and assuming a maximum cycle time of 120 seconds at an intersection (worst-case), it is reasonably expected the Stage A works could generate up to one (1) additional vehicle at the intersection per cycle.

Considering this, the impact of one (1) additional vehicle per cycle is not expected to significantly impact the operation of keys intersections surrounding the Pearson Street Bridge enhancement site.

3.1.10 Impact on Public Transport

Public Transport Operations

There is not expected to be any impact upon public transport operations is expected during this stage of work.

Access to Public Transport

There will be no change or impact to public transport access during this stage of work.

3.1.11 Impact on Pedestrians and Cyclists

There will be no change to or impact to pedestrian and cyclist facilities or access during this stage of work.



3.1.12 Access for Businesses and Residents

There will be no change to or impact to access for businesses and/or residents during this stage of work.

3.1.13 Changes to Kerbside Management

There will be no changes to kerbside allocations during this stage of work.

3.1.14 Works Requiring Short Term Traffic Control

Overview

The Stage A works are generally confined to the rail corridor and as such do not involve works be constructed under traffic. Temporary speed limit reductions and/or short-term traffic control (intermittent stops) may be implemented to manage site entry and exit movements as required for construction heavy vehicles.

TABLE 119: SHORT-TERM TRAFFIC CONTROL REQUIREMENTS – PEARSON STREET BRIDGE

Location	Activity	Traffic control	Duration	Timing	Expected impacts
Gate P1 – Cheshire Street at Pearson Street	Site access manoeuvres	Hold and release / intermittent stop	5 months	Subject to the times permitted under the appropriate approval issued by the relevant authority	Minor delays to traffic travelling along Pearson Street and Cheshire Street

3.2 Cassidy Parade Pedestrian Bridge Enhancement Site

3.2.1 Site Location

The Cassidy Parade Pedestrian Bridge enhancement site encompasses areas within the rail corridor bound by Brookong Avenue and Cassidy Parade.

3.2.2 Works Required

The Stage A scope of work at the Cassidy Parade Pedestrian Bridge enhancement site comprise of the following:

- Site establishment.
- High pressure gas main protection within the rail corridor.

3.2.3 Timing and Duration

The proposed arrangements are planned to be implemented from early February 2025 and remain in operation until late August 2025.

3.2.4 Drawings

There will be no long-term changes to the existing conditions on the roads in the vicinity of the Cassidy Parade Pedestrian Bridge enhancement site resulting from the Stage A works

A list of expected short-term traffic guidance schemes expected to facilitate the works as detailed within Section 3.1.14 are provided in Appendix A.

3.2.5 Operating Conditions

There will be no long-term changes to the existing conditions on the roads in the vicinity of the Cassidy Parade Pedestrian Bridge enhancement site resulting from the Stage A works.

Temporary speed limit reductions and/or short-term traffic control may be implemented along key roads to facilitate the safe and efficient movement of construction heavy vehicles and/or works outside of the rail corridor (refer to Section 3.2.14).

The peak volume of additional traffic generated by the Stage A works required to access the worksite is expected to be in the order of three (3) vehicles per hour, broken down as follows:

TABLE 120: CONSTRUCTION TRAFFIC – CASSIDY PARADE PEDESTRIAN BRIDGE ENHANCEMENT SITE

Scope	Light vehicles (vehicles per hour)	Heavy vehicles (vehicles per hour)	
Site establishment	Two (2)	One (1)	
High pressure gas protection works	Two (2)	One (1)	

For the Stage A works, a 12.5m single unit truck is expected to be the predominant type of vehicle accessing the worksite however, occasional use of larger vehicles will be required to facilitate the works. The scope of heavy vehicle requirements is detailed in Table 121 below.

TABLE 121:CONSTRUCTION HEAVY VEHICLE REQUIREMENTS – CASSIDY PARADE PEDESTRIAN BRIDGEENAHNCEMENT SITE

Site access	Vehicle type	Scope	Frequency
Gate C1 – Existing access to Telstra Yard on Brookong Avenue	12.5m single unit truck	Delivery of smaller items of plant and materials	Daily
	19.0m truck and dog	Delivery of ballast and other large material	≤ one (1) per week
Gate C2 – New access on Fox Street at Donnelly Street	0	Delivery of smaller items of plant and materials	Daily
	19.0m truck and dog	Delivery of ballast and other large material	≤ one (1) per week

3.2.7 Site Access

Overview

Access to the Cassidy Street Pedestrian Bridge enhancement site will be via existing access points located on Brookong Avenue and Fox Street. A summary of permitted movements and methods of control at site access locations is provided below in Table 122, with further details provided in subsequent sections of this report.

TABLE 122: SITE	TABLE 122: SITE ACCESS DETAILS – CASSIDY PARADE PEDESTRIAN BRIDGE ENHANCEMENT SITE						
Access	Site Entry/Exit	Vehicle type	Permitted Movements	Control			
Gate C1 – Existing access to Telstra Yard on Brookong Avenue	Entry and exit	Up to 12.5m single unit truck 19.0m truck and dog	Right in, left out	Give way			
Gate C2 – New access on Fox Street at Donnelly Street	Entry and exit	Up to 12.5m single unit truck 19.0m truck and dog	Right in, left out	Give way			

Gate C1 – Existing access to Telstra Yard on Brookong Avenue

Located on Brookong Avenue, Gate C1 is an existing access that will provide access to the Cassidy Parade Pedestrian Bridge enhancement site.

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A2I | ALBURY TO ILLABO PRECINCT TRAFFIC MANAGEMENT SUB PLAN – STAGE A – WAGGA WAGGA



FIGURE 30: GATE C1 – BROOKONG AVENUE

Details of permitted movements and methods of control at Gate C1 is summarised below in Table 123.

TABLE 123: SITE ACCESS DETAILS – GATE C1

Access			Permitted Movements	Control
access to Telstra Yard	-	Up to 12.5m single unit truck	Right in, left out	Give way
on Brookong Avenue		19.0m truck and dog		



FIGURE 31: SITE ACCESS DETAILS – GATE C1

To ensure the safety of construction vehicles entering and exiting via the Gate C1, an assessment has been undertaken for determining controls for managing truck movements where auxiliary lanes are not provided (existing access point), depending on traffic volumes, sight distance, number of truck movements and traffic speed. This assessment aims to adopt the methodology presented within Section 5.2.3.3 of TfNSW's *Technical Manual – Traffic control at work sites* and is presented below.

TABLE 124: SITE ACCESS ASSESSMENT CRITERIA – GATE C1

Site Access Assessment			
Location:	Brookong Avenue		
AADT:	1,215		
Speed limit:	50km/hr		
Number of truck movements per shift:	Less than 20		
Dimension D:	50m (2D = 100m)		
Available sight distance	Greater than 2D		



FIGURE 32: SOUTHBOUND VIEW APPROACHING GATE C1 (~100M FROM ACCESS POINT)





FIGURE 33: WESTBOUND VIEW APPROACHING GATE C1 (~100M FROM ACCESS POINT)

As available sight distance approaching Gate C1 is greater than 2D (100m), an assessment has been undertaken using Table 5-7 of TfNSW's *Technical Manual – Traffic control at work sites* has been undertaken and is detailed in Table 125 below.

TABLE 125:GATE C1 – PROVIDING FOR TRUCK MOVEMENTS WHERE SIGHT DISTANCE IS GREATER THAN2D (TABLE 5-7 OF TFNSW'S TECHNICAL MANUAL – TRAFFIC CONTROL AT WORK SITES)

ADT	300 – 1,500		More than 1,500	
Number of truck movements per shift	Less than or equal to 20	Greater than 20	Less than or equal to 20	Greater than 20
Traffic control required		Yes	Yes Note 1*	Yes Note 2*
VMP required		Yes		Yes
Warning signs required during shifts		Yes		Yes

Note 1: Where approach speed is greater than 95km/hr

Note 2: If acceleration and deceleration cannot occur on shoulders

No controls are warranted at Gate C1 to facilitate the safe and efficient movement of construction vehicles into and out of the access, and as such access will operate under a typical "Give way" arrangement. Notwithstanding this, traffic control may be implemented to facilitate alternative movements at the access (i.e., reverse into or out of the site) – refer to Section 3.2.14.

Gate C2 – New Access on Fox Street at Donnelly Street

Located on Fox Street at Donnelly Avenue, Gate C2 is an existing access that will provide access to the Cassidy Parade Pedestrian Bridge enhancement site.





FIGURE 34: GATE C2 – FOX STREET

Details of permitted movements and methods of control at Gate C2 is summarised below in Table 126.

TABLE 126: SITE ACCESS DETAILS – GATE C2

Access		Permitted Movements	Control
Gate C2 – New access on Fox Street at Donnelly Avenue	Up to 12.5m single unit truck 19.0m truck and dog	Right in, left out	Give way





FIGURE 35: SITE ACCESS DETAILS – GATE C2

To ensure the safety of construction vehicles entering and exiting via the Gate C2, an assessment has been undertaken for determining controls for managing truck movements where auxiliary lanes are not provided (existing access point), depending on traffic volumes, sight distance, number of truck movements and traffic speed. This assessment aims to adopt the methodology presented within Section 5.2.3.3 of TfNSW's *Technical Manual – Traffic control at work sites* and is presented below.

TABLE 127:	SITE ACCESS	ASSESSMENT	CRITERIA – GATE C2

Site Access Assessment				
Location:	Fox Street at Donnelly Avenue			
AADT:	332			
Speed limit:	50km/hr			
Number of truck movements per shift:	Less than 20			
Dimension D:	50m (2D = 100m)			
Available sight distance	Greater than 2D			





FIGURE 36: VIEW APPROACHING GATE C2 (~100M FROM ACCESS POINT)

As available sight distance approaching Gate C2 is greater than 2D (100m), an assessment has been undertaken using Table 5-7 of TfNSW's *Technical Manual – Traffic control at work sites* has been undertaken and is detailed in Table 130 below.

TABLE 128:GATE C2 – PROVIDING FOR TRUCK MOVEMENTS WHERE SIGHT DISTANCE IS GREATER THAN2D (TABLE 5-7 OF TFNSW'S TECHNICAL MANUAL – TRAFFIC CONTROL AT WORK SITES)

ADT	300 – 1,500		More than 1,500	
Number of truck movements per shift	Less than or equal to 20	Greater than 20	Less than or equal to 20	Greater than 20
Traffic control required		Yes	Yes Note 1*	Yes Note 2*
VMP required		Yes		Yes
Warning signs required during shifts		Yes		Yes

Note 1: Where approach speed is greater than 95km/hr

Note 2: If acceleration and deceleration cannot occur on shoulders

No controls are warranted at Gate C2 to facilitate the safe and efficient movement of construction vehicles into and out of the access, and as such access will operate under a typical "Give way" arrangement. Notwithstanding this, traffic control may be implemented to facilitate alternative movements at the access (i.e., reverse into or out of the site) – refer to Section 3.2.14.

3.2.8 Construction Vehicle Access Routes

Construction heavy vehicles will access the worksite via the routes identified within Environmental Approval Documentation, with the routes detailed below in Table 129.

TABLE 129:CONSTRUCTION VEHICLE ACCESS ROUTES – CASSIDY PARADE PEDESTRIAN BRIDGEENHANCMEMENT SITE

Site Access	Direction	Access Route	Largest suitable vehicle type
Gate C1	Inbound	Edward Street, left/right turn onto Murray Street, left turn onto Brookong Avenue.	Up to 19.0m truck and dog
	Outbound	Brookong Avenue, right turn onto Murray Street, left/right turn onto Edward Street.	
Gate C2	Inbound	Edward Street, left/right turn onto Fox Street.	Up to 19.0m truck and dog
	Outbound	Fox Street, left/right turn onto Edward Street.	

These access routes are depicted in Figure 37 and Figure 38.



FIGURE 37: CONSTRUCTION VEHICLE ACCESS ROUTES – GATE C1





FIGURE 38: CONSTRUCTION VEHICLE ACCESS ROUTES – GATE C2

As a measure of monitoring any impacts to road infrastructure along construction vehicle access routes, road dilapidation surveys will be undertaken prior to the use of an identified route.

A swept path analysis has also been undertaken for key movements along the construction vehicle access routes, demonstrating the ability for construction vehicle to safely manoeuvre along the identified routes, and is detailed in Section 4.3. Where larger vehicle types are required to access the site, further assessment will be undertaken to determine the suitability of identified access routes.

3.2.9 Impact on Traffic Flow

Key Roads

To evaluate the impact of the Stage A works on key roads, an assessment of road (mid-block) performance has been undertaken in relation to Level of Service (LOS) for the key road links with and without traffic generated by the Stage A works. The assessment has been carried out using a combination of peak hour background traffic volumes, in conjunction with expected peak hour construction traffic volumes to determine an operating LOS for key road links for both the "without construction traffic" and "with construction traffic" scenarios.

Road link LOS for key road links have been determined using Table 4.4 from the *Guide to Traffic Generating Developments* (*RTA 2002*), which has been replicated below.

TABLE 130:LINK LOS ADAPTED FROM THE GUIDE TO TRAFFIC GENERATING DEVELOPMENT (2002)TABLE 4.4

LOS	One lane per direction (veh/hr)	Two lanes per direction (veh/hr)
LOS A	200	900
LOS B	380	1,400
LOS C	600	1,800
LOS D	900	2,200
LOS E	More than 900	2,800

While it is recognised that TfNSW's *Guide to Transport Impact Assessment* has superseded the *Guide to Traffic Generating Developments*, the process of assessment is considered appropriate in quantifying potential impacts to traffic flow and the road network resulting from the Stage A works. It is also noted that this approach is consistent with the Link LOS assessment undertaken within *Technical Paper 1: Traffic and Transport* and its addendums.

The link LOS assessment for the Cassidy Parade Pedestrian Bridge enhancement site is shown in Table 131 and Table 132. It should be noted that to determine future year background traffic demands (2025), an annual growth rate of 2% (compounding) has been applied to the recorded background traffic volumes (refer to Section 2).

Road link	No. of lanes (per direction)	Direction	AM Background volume (one way)	Without construction traffic LOS	Construction volume (one way)	Total volume	Percent increase in volumes	With project LOS
Murray Street at	1	Northbound	88	А		91	3.4%	А
Edward Street	·	Southbound	46	А		49	6.5%	А
Brookong Avenue at	1	Northbound	34	А	3	37	8.8%	А
Edward Street	·	Southbound	68	А	Ũ	71	4.4%	
Fox Street at Edward	1	Northbound	17	А		20	17.7%	А
Street ^{1, 2}	·	Southbound	17	А		20	17.7%	А

TABLE 131: AM PEAK LINK LOS ASSESSMENT – CASSIDY PARADE PEDESTRIAN BRIDGE

1: Peak hour volume not available, assumed 10% of AADT

2: Two-way data not available, assumed 50/50 traffic split during peak hours

TABLE 132: PM PEAK LINK LOS ASSESSMENT – CASSIDY PARADE PEDESTRIAN BRIDGE

Road link	No. of lanes (per direction)	Direction	PM Background volume (one way)		Construction volume (one way)		Percent increase in volumes	With project LOS
Murray Street at	1	Northbound	125	А		128	2.4%	А
Edward Street		Southbound	89	А		92	3.4%	
Brookong Avenue at	1	Northbound	60	А	3	63	5%	А
Edward Street		Southbound	101	А		104	3%	
Fox Street at Edward	1	Northbound	17	А		20	17.7%	A
Street ^{1, 2}	·	Southbound	17	А		20	17.7%	А

2: Two-way data not available, assumed 50/50 traffic split during peak hours

The link LOS assessment for the Cassidy Parade Pedestrian Bridge enhancement site shows that with construction traffic, there is expected change is LOS from the "without construction traffic scenario" during the AM and PM peak periods. As a result, no significant impact to road operation or performance are expected to result from the traffic generated by the Stage A works. As such, mitigations are not considered warranted as a result of the Stage A works.



Key Intersections

To evaluate the impact of the Stage A works on key intersections, a first principles assessment has been undertaken. To undertake this assessment, consideration has been given to the volume of construction traffic associated with the Stage A works within the Cassidy Parade Pedestrian Bridge enhancement site.

As detailed within Section 3.1.6, a peak of three (3) construction vehicles per hour (one (1) vehicle every 20 minutes) is expected to be generated during the Stage A works. At signalised intersections, and assuming a maximum cycle time of 120 seconds at an intersection (worst-case), it is reasonably expected the Stage A works could generate up to one (1) additional vehicle at the intersection per cycle.

Considering this, the impact of one (1) additional vehicle per cycle is not expected to significantly impact the operation of keys intersections surrounding the Cassidy Parade Pedestrian Bridge enhancement site.

3.2.10 Impact on Public Transport

Public Transport Operations

There is not expected to be any impact upon public transport operations is expected during this stage of work.

Access to Public Transport

There will be no change or impact to public transport access during this stage of work.

3.2.11 Impact on Pedestrians and Cyclists

There will be no change to or impact to pedestrian and cyclist facilities or access during this stage of work.

3.2.12 Access for Businesses and Residents

There will be no change to or impact to access for businesses and/or residents during this stage of work.

3.2.13 Changes to Kerbside Management

There will be no changes to kerbside allocations during this stage of work.

3.2.14 Works Requiring Short Term Traffic Control

Overview

The Stage A works are generally confined to the rail corridor and as such do not involve works be constructed under traffic. Temporary speed limit reductions and/or short-term traffic control (intermittent stops) may be implemented to manage site entry and exit movements as required for construction heavy vehicles.

Location	Activity	Traffic control	Duration	Timing	Expected impacts
Gate C1 – Existing access on Brookong Avenue	Site access manoeuvres	Hold and release / intermittent stop	5 months	Subject to the times permitted under the appropriate approval issued by the relevant authority	Minor delays to traffic travelling along Brookong Avenue.
Gate C2 – New access on Fox Street at Donnelly Avenue	Site access manoeuvres	Hold and release / intermittent stop	5 months	Subject to the times permitted under the appropriate approval issued by the relevant authority	Minor delays to traffic travelling along Fox Street.

TABLE 133: SHORT-TERM TRAFFIC CONTROL REQUIREMENTS – CASSIDY PARADE PEDESTRIAN BRIDGE

3.3 Edmondson Street Bridge Enhancement Site

3.3.1 Site Location

The Edmondson Street Bridge enhancement site encompasses areas within the rail corridor bound by Donnelly Avenue and Railway Street.

3.3.2 Works Required

The Stage A scope of work at the Edmondson Street Bridge enhancement site comprise of the following:

- Establishment of site compounds on the northern and southern sides of rail corridor from Station Place and Railway Street.
- Clearing and grubbing on the northern and southern sides of the rail corridor as well as the western side of Edmondson Street.
- Gas under bore of the rail corridor and Edmondson Street.
- Installation of new power poles and stringing conductors on the western side of Edmondson Street for the 66KV overhead power relocation.
- Installation of gas (HDD) along MacLeay Street and Erin Street and across Edmondson Street.

3.3.3 Timing and Duration

The proposed arrangements are planned to be implemented from early February 2025 and remain in operation until late August 2025.

3.3.4 Drawings

There will be no long-term changes to the existing conditions on the roads in the vicinity of the Pearson Street Bridge enhancement site resulting from the Stage A works

A list of expected short-term traffic guidance schemes expected to facilitate the works as detailed within Section 3.1.14 are provided in Appendix A

3.3.5 Operating Conditions

There will be no long-term changes to the existing conditions on the roads in the vicinity of the Edmondson Street Bridge enhancement site resulting from the Stage A works.

Temporary speed limit reductions and/or short-term traffic control may be implemented along key roads to facilitate the safe and efficient movement of construction heavy vehicles and/or works outside of the rail corridor (refer to Section 3.3.14).

3.3.6 Construction Traffic

The peak volume of additional traffic generated by the Stage A works required to access the worksite is expected to be in the order of six (6) vehicles per hour, broken down as follows:

TABLE 134: CONSTRUCTION TRAFFIC – PEARSON STREET BRIDGE ENHANCEMENT SITE

Scope	Light vehicles (vehicles per hour)	Heavy vehicles (vehicles per hour)
Site establishment	Four (4)	Two (2)
Clearing and grubbing	Four (4)	Two (2)
Gas under bore works	Four (4)	Two (2)
Installation of gas main	Four (4)	Two (2)
Installation of new power poles	Four (4)	Two (2)

For the Stage A works, a 12.5m single unit truck is expected to be the predominant type of vehicle accessing the worksite however, occasional use of larger vehicles will be required to facilitate the works. The scope of heavy vehicle requirements is detailed in Table 135 below.

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TABLE 135:CONSTRUCTION HEAVY VEHICLE REQUIREMENTS – EDMONDSON STREET BRIDGEENHANCEMENT SITE

Site access	Vehicle type	Scope	Frequency
Gate E1 – Existing access on Donnelly Avenue	12.5m single unit truck	Delivery of smaller items of plant and materials	Daily
	19.0m semi-trailer	Delivery of poles and large plant items under traffic control	≤ one (1) per week
Gate E2 – Existing access on Railway Street	12.5m single unit truck	Delivery of smaller items of plant and materials	Daily
	19.0m truck and dog	Delivery of ballast and other large material	≤ one (1) per week
	19.0m semi-trailer	Delivery of poles and large plant items under traffic control	≤ one (1) per week
Gate E3 – Existing access on Station Place	12.5m single unit truck	Delivery of smaller items of plant and materials	Daily
	19.0m truck and dog	Delivery of ballast and other large material	≤ one (1) per week
	19.0m semi-trailer	Delivery of poles and large plant items under traffic control	≤ one (1) per week

3.3.7 Site Access

Overview

Access to the worksite will be via existing access points located on Donnelly Avenue and Railway Street. A summary of permitted movements and methods of control at site access locations is provided below in Table 122, with further details provided in subsequent sections of this report.

Access	Site Entry/Exit	Vehicle type	Permitted Movements	Control
Gate E1 – Existing access off Donnelly	Entry and exit	Up to 12.5m single unit truck	Right in, right out	Give way
Avenue		19.0m semi-trailer	Traffic control – refer	to Section 3.3.15
Gate E2 – Existing access off Railway	Entry and exit	Up to 12.5m single unit truck	Left/right in, left/right out	Give way
Street		19.0m truck and dog		
		19.0m semi-trailer	Traffic control – refer	to Section 3.3.15
Gate E3 – Existing access to Multicultural	Entry and exit	Up to 12.5m single unit truck	Left in, left out	Give way
Council of Wagga Wagga car parking off		19.0m truck and dog		
Station Place		19.0m semi-trailer	Traffic control – refer	to Section 3.3.15

TABLE 136: SITE ACCESS DETAILS – EDMONDSTON STREET BRIDGE ENHANCEMENT SITE

Gate E1 – Existing access on Donnelly Avenue

Located on Donnelly Avenue, Gate E1 is an existing access that will provide access to the Edmondson Street Bridge enhancement site.



FIGURE 39: GATE E1 – DONNELLY AVENUE

Details of permitted movements and methods of control at Gate E1 is summarised below in Table 137.

TABLE 137: SITE ACCESS DETAILS – GATE E1

Access	Site Entry/Exit		Permitted Movements	Control
access off Donnelly		Up to 12.5m single unit truck	Right in, right out	Give way
Avenue		19.0m semi-trailer	Traffic control – refer to	Section 3.3.15



FIGURE 40: SITE ACCESS DETAILS – GATE E1

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Noting that traffic control will be required to facilitate access for a 19.0m semi-trailer via Gate E1, an assessment has been undertaken for determining controls for managing movements for vehicle combinations up to and including a 12.5m single unit truck, where auxiliary lanes are not provided (existing access point), depending on traffic volumes, sight distance, number of truck movements and traffic speed. This assessment aims to adopt the methodology presented within Section 5.2.3.3 of TfNSW's *Technical Manual – Traffic control at work sites* and is presented below.

TABLE 138: SITE ACCESS ASSESSMENT CRITERIA – GATE E1

Site Access Assessment	
Location:	Donnelly Avenue
AADT:	No data available - assume between 300 - 1500
Speed limit:	50km/hr
Number of truck movements per shift:	Less than 20
Dimension D:	50m (2D = 100m)
Available sight distance	Greater than 2D



FIGURE 41: VIEW APPROACHING GATE E1 (~100M FROM ACCESS POINT)

As available sight distance approaching Gate E1 is greater than 2D (100m), an assessment has been undertaken using Table 5-7 of TfNSW's *Technical Manual – Traffic control at work sites* has been undertaken and is detailed in Table 139 below.

TABLE 139:GATE E1 – PROVIDING FOR TRUCK MOVEMENTS WHERE SIGHT DISTANCE IS GREATER THAN2D (TABLE 5-7 OF TFNSW'S TECHNICAL MANUAL – TRAFFIC CONTROL AT WORK SITES)

ADT	300 – 1,500		More than 1,500	
Number of truck movements per shift	Less than or equal to 20	Greater than 20	Less than or equal to 20	Greater than 20
Traffic control required		Yes	Yes Note 1*	Yes Note 2*
VMP required		Yes		Yes
Warning signs required during shifts		Yes		Yes

Note 1: Where approach speed is greater than 95km/hr

Note 2: If acceleration and deceleration cannot occur on shoulders

No controls are warranted at Gate E1 to facilitate the safe and efficient movement of construction vehicles into and out of the access, and as such access will operate under a typical "Give way" arrangement. Notwithstanding this, traffic control may be implemented to facilitate alternative movements at the access (i.e., reverse into or out of the site) – refer to Section 3.3.14.

Gate E2 – Existing access on Railway Street

Located on Railway Street, Gate E2 is an existing access that will provide access to the Edmondson Street Bridge enhancement site.



FIGURE 42: GATE E2 – RAILWAY STREET

Details of permitted movements and methods of control at Gate E2 is summarised below in Table 137.



TABLE 140: SITE ACCESS DETAILS – GATE E2

Access	Site Entry/Exit	Largest Permitted Vehicle	Permitted Movements	Control
Gate E2 – Existing access off Railway Street	Entry and exit	Up to 12.5m single unit truck 19.0m truck and dog	Left/right in, left/right out -	Give way
		19.0m semi-trailer	Traffic control – refer t	o Section 3.3.15



FIGURE 43: SITE ACCESS DETAILS – GATE E2

Noting that traffic control will be required to facilitate access for a 19.0m semi-trailer via Gate E2, an assessment has been undertaken for determining controls for managing movements for vehicle combinations up to and including a 12.5m single unit truck, where auxiliary lanes are not provided (existing access point), depending on traffic volumes, sight distance, number of truck movements and traffic speed. This assessment aims to adopt the methodology presented within Section 5.2.3.3 of TfNSW's *Technical Manual – Traffic control at work sites* and is presented below.

TABLE 141: SITE ACCESS ASSESSMENT CRITERIA – GATE E2
--

Site Access Assessment				
Location:	Railway Street			
AADT:	3,230			
Speed limit:	50km/hr			
Number of truck movements per shift:	Less than 20			
Dimension D:	50m (2D = 100m)			
Available sight distance	Greater than 2D			



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FIGURE 44: NORTHBOUND VIEW APPROACHING GATE E2 (~100M FROM ACCESS POINT)



FIGURE 45: WESTBOUND VIEW APPROACHING GATE E2 (~100M FROM ACCESS POINT)

As available sight distance approaching Gate E2 is greater than 2D (100m), an assessment has been undertaken using Table 5-7 of TfNSW's *Technical Manual – Traffic control at work sites* has been undertaken and is detailed in Table 142 below.

TABLE 142:GATE E2 – PROVIDING FOR TRUCK MOVEMENTS WHERE SIGHT DISTANCE IS GREATER THAN2D (TABLE 5-7 OF TFNSW'S TECHNICAL MANUAL – TRAFFIC CONTROL AT WORK SITES)

ADT	300 – 1,500	More than 1,500		
Number of truck movements per shift	Less than or equal to 20	Greater than 20	Less than or equal to 20	Greater than 20
Traffic control required		Yes	Yes Note 1*	Yes Note 2*
VMP required		Yes		Yes
Warning signs required during shifts		Yes		Yes

Note 1: Where approach speed is greater than 95km/hr

Note 2: If acceleration and deceleration cannot occur on shoulders

No controls are warranted at Gate E2 to facilitate the safe and efficient movement of construction vehicles into and out of the access, and as such access will operate under a typical "Give way" arrangement. Notwithstanding this, traffic control may be implemented to facilitate alternative movements at the access (i.e., reverse into or out of the site) – refer to Section 3.3.14.

Gate E3 – Existing access on Station Place

Located on Station Place, Gate E3 is an existing access that will provide access to the Edmondson Street Bridge enhancement site.

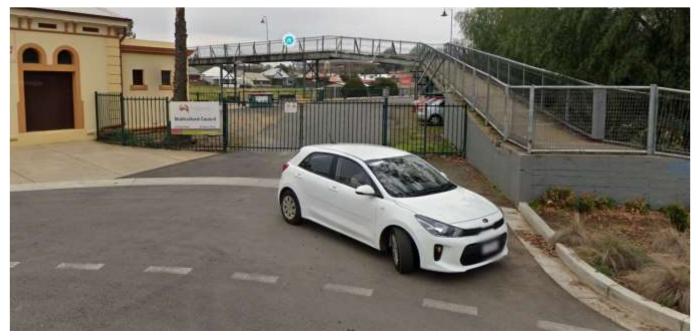


FIGURE 46: GATE E3 – STATION PLACE

Details of permitted movements and methods of control at Gate E3 is summarised below in Table 143.



TABLE 143: SITE ACCESS DETAILS – GATE E3

Access			Permitted Movements	Control
access to Multicultural	-	Up to 12.5m single unit truck	Left in, left out	Give way
Council of Wagga Wagga car parking off		19.0m truck and dog	-	
Station Place		19.0m semi-trailer	Traffic control – refer to	o Section 3.3.15



FIGURE 47: SITE ACCESS DETAILS – GATE E3

Noting that traffic control will be required to facilitate access for a 19.0m semi-trailer via Gate E3, an assessment has been undertaken for determining controls for managing movements for vehicle combinations up to and including a 12.5m single unit truck, where auxiliary lanes are not provided (existing access point), depending on traffic volumes, sight distance, number of truck movements and traffic speed. This assessment aims to adopt the methodology presented within Section 5.2.3.3 of TfNSW's *Technical Manual – Traffic control at work sites* and is presented below.

Site Access Assessment				
Location:	Station Place			
AADT:	472			
Speed limit:	50km/hr			
Number of truck movements per shift:	Less than 20			
Dimension D:	50m (2D = 100m)			
Available sight distance	Greater than 2D			





FIGURE 48: VIEW APPROACHING GATE E3

As available sight distance approaching Gate E3 is greater than 2D (100m), an assessment has been undertaken using Table 5-7 of TfNSW's *Technical Manual – Traffic control at work sites* has been undertaken and is detailed in Table 145 below.

TABLE 145:GATE E3 – PROVIDING FOR TRUCK MOVEMENTS WHERE SIGHT DISTANCE IS GREATER THAN2D (TABLE 5-7 OF TFNSW'S TECHNICAL MANUAL – TRAFFIC CONTROL AT WORK SITES)

ADT	300 – 1,500			
Number of truck movements per shift	Less than or equal to 20	Greater than 20	Less than or equal to 20	Greater than 20
Traffic control required		Yes	Yes Note 1*	Yes Note 2*
VMP required		Yes		Yes
Warning signs required during shifts		Yes		Yes

Note 1: Where approach speed is greater than 95km/hr

Note 2: If acceleration and deceleration cannot occur on shoulders

No controls are warranted at Gate E3 to facilitate the safe and efficient movement of construction vehicles into and out of the access, and as such access will operate under a typical "Give way" arrangement. Notwithstanding this, traffic control may be implemented to facilitate alternative movements at the access (i.e., reverse into or out of the site) – refer to Section 3.3.14.

3.3.8 Construction Vehicle Access Routes

Construction heavy vehicles will access the worksite via the routes identified within Environmental Approval Documentation, with the routes detailed in Table 146 below.

TABLE 146:CONSTRUCTION VEHICLE ACCESS ROUTES – EDMONDSON STREET BRIDGE ENHANCEMENTSITE

Site Access	Direction	Access Route	Largest suitable vehicle type
Gate E1	Inbound	Edward Street, left/right turn onto Fox Street, straight onto Donnelly Avenue	Up to 12.5m single unit truck
	Outbound	Donnelly Avenue, straight onto Little Best Street, right turn onto Edward Street	Up to 12.5m single unit truck
		Donnelly Avenue, straight onto Little Best Street, left turn onto Edward Street	Up to 8.8m service vehicle
Gate E2	Inbound	Edward Street, right turn onto Edmondson Street, left turn onto Erin Street, left turn onto MacLeay Street, left turn onto Railway Street.	Up to 19.0m semi-trailer
		Edward Street, left turn onto Edmondson Street, left turn onto Erin Street, left turn onto MacLeay Street, left turn onto Railway Street.	Up to 12.5 single unit truck
	Outbound	Railway Street, right turn onto MacLeay Street, right turn onto Erin Street, right turn onto Edmondson Street, left turn onto Edward Street	Up to 8.8m service vehicle
		Railway Street, right turn onto MacLeay Street, right turn onto Erin Street, right turn onto Edmondson Street, right turn onto Edward Street	Up to 19.0m semi-trailer
	Inbound (alternative)	Edward Street, right turn onto Lake Albert Road, right turn onto Railway Street.	Up to 19.0m semi-trailer
		Edward Street, left turn onto Lake Albert Road, right turn onto Railway Street.	Up to 19.0m truck and dog
	Outbound (alternative)	Railway Street, left turn onto Lake Albert Road, left turn onto Edward Street.	Up to 19.0m truck and dog
		Railway Street, left turn onto Lake Albert Road, right turn onto Edward Street.	Up to 19.0m semi-trailer
Gate E3	Inbound	Edward Street, left/right turn onto Station Place, Straight onto Station Place loop.	Up to 19.0m truck and dog
	Outbound	Station Place loop, straight onto Station Place, right turn onto Edward Street.	

These access routes are depicted in Figure 49, Figure 50 and Figure 51.





FIGURE 49: CONSTRUCTION VEHICLE ACCESS ROUTES – GATE E1



FIGURE 50: CONSTRUCTION VEHICLE ACCESS ROUTES – GATE E2





FIGURE 51: CONSTRUCTION VEHICLE ACCESS ROUTES – GATE E3

As a measure of monitoring any impacts to road infrastructure along construction vehicle access routes, road dilapidation surveys will be undertaken prior to the use of an identified route.

A swept path analysis has also been undertaken for key movements along the construction vehicle access routes, demonstrating the ability for construction vehicle to safely manoeuvre along the identified routes, and is detailed in Section 4.3. Where larger vehicle types are required to access the site, further assessment will be undertaken to determine the suitability of identified access routes.

3.3.9 Impact on Traffic Flow

Key Roads

To evaluate the impact of the Stage A works on key roads, an assessment of road (mid-block) performance has been undertaken in relation to Level of Service (LOS) for the key road links with and without traffic generated by the Stage A works. The assessment has been carried out using a combination of peak hour background traffic volumes, in conjunction with expected peak hour construction traffic volumes to determine an operating LOS for key road links for both the "without construction traffic" and "with construction traffic" scenarios.

Road link LOS for key road links have been determined using Table 4.4 from the *Guide to Traffic Generating Developments* (*RTA 2002*), which has been replicated below.

TABLE 147:LINK LOS ADAPTED FROM THE GUIDE TO TRAFFIC GENERATING DEVELOPMENT (2002)TABLE 4.4

LOS	One lane per direction (veh/hr)	Two lanes per direction (veh/hr)
LOS A	200	900
LOS B	380	1,400
LOS C	600	1,800
LOS D	900	2,200
LOS E	More than 900	2,800



While it is recognised that TfNSW's *Guide to Transport Impact Assessment* has superseded the *Guide to Traffic Generating Developments*, the process of assessment is considered appropriate in quantifying potential impacts to traffic flow and the road network resulting from the Stage A works. It is also noted that this approach is consistent with the Link LOS assessment undertaken within *Technical Paper 1: Traffic and Transport* and its addendums.

The link LOS assessment for the Edmondson Street Bridge enhancement site is shown in Table 148 and Table 149. It should be noted that to determine future year background traffic demands (2025), an annual growth rate of 2% (compounding) has been applied to the recorded background traffic volumes (refer to Section 2).

Road link	No. of lanes (per direction)	Direction	AM Background volume (one way)		Construction volume (one way)		Percent increase in volumes	With project LOS
Fox Street at Edward	1	Northbound	17	А		23	35.3%	А
Street ^{1, 2}	·	Southbound	17	А		23	35.3%	
Edmondson Street at	2	Northbound	835	А		844 ³	1.1%	
Edward Street	2	Southbound	383	А		392 ³	2.4%	А
Erin Street ^{1,}	1	Eastbound	24	А	6	30	25%	А
		Westbound	24	А		30	25%	A
MacLeay Street ^{1, 2}	1	Northbound	162	А		168	3.7%	A
	,	Southbound	162	А	0	168	3.7%	A
Railway Street at	1	Eastbound	264	В		272	2.3%	В
Albert Lake Road	I	Westbound	187	А		193	3.2%	A
Albert Lake Road at	2	Northbound	924	В		930	0.7%	В
Edward Street	2	Southbound	378	A		384	1.6%	А
Station Place at	1	Northbound	107	A		113	5.6%	A
Edward Street	I	Southbound	98	A		104	6.1%	A

TABLE 148: AM PEAK LINK LOS ASSESSMENT – EDMONDSON STREET BRIDGE

1: Peak hour volume not available, assumed 10% of AADT

2: Two-way data not available, assumed 50/50 traffic split during peak hours

3: Considers cumulative volumes associated with the Cassidy Parade Pedestrian Bridge enhancement site



Road link	No. of lanes (per direction)	Direction	PM Background volume (one way)	Without construction traffic LOS	Construction volume (one way)		Percent increase in volumes	With project LOS
Fox Street at Edward	1	Northbound	17	А		23	35.3%	А
Street ^{1, 2}		Southbound	17	А		23	35.3%	А
Edmondson Street at	2	Northbound	638	А		647 ³	1.4%	А
Edward Street		Southbound	538	А		547 ³	1.1%	А
Erin Street ^{1,}	1	Eastbound	24	А	6	30	25%	А
	I	Westbound	24	А		30	25%	А
MacLeay Street ^{1, 2}	1	Northbound	162	А		168	3.7%	А
		Southbound	162	А		168	3.7%	А
Railway Street at	1	Eastbound	187	А		193	3.2%	А
Albert Lake Road	I	Westbound	190	А		196	3.2%	А
Albert Lake Road at	2	Northbound	677	А		673	0.9%	А
Edward Street	۷.	Southbound	1,011	В		1,017	0.6%	В
Station Place at	1	Northbound	205	В		211	2.9%	В
Edward Street	I	Southbound	170	А		176	3.5%	А

TABLE 149: PM PEAK LINK LOS ASSESSMENT – EDMONDSON STREET BRIDGE

2: Two-way data not available, assumed 50/50 traffic split during peak hours

3: Considers cumulative volumes associated with the Cassidy Parade Pedestrian Bridge enhancement site

The link LOS assessment for the Edmondson Street Pedestrian Bridge enhancement site shows that with construction traffic, there is expected change is LOS from the "without construction traffic scenario" during the AM and PM peak periods. As a result, no significant impact to road operation or performance are expected to result from the traffic generated by the Stage A works. As such, mitigations are not considered warranted as a result of the Stage A works.

Key Intersections

To evaluate the impact of the Stage A works on key intersections, a first principles assessment has been undertaken. To undertake this assessment, consideration has been given to the volume of construction traffic associated with the Stage A works within the Edmondson Street Bridge enhancement site.

As detailed within Section 3.1.6, a peak of six (6) construction vehicles per hour (one (1) vehicle every 10 minutes) is expected to be generated during the Stage A works. At signalised intersections, and assuming a maximum cycle time of 120 seconds at an intersection, it is reasonably expected the Stage A works could generate up to one (1) additional vehicle at the intersection per cycle.

Considering this, the impact of one (1) additional vehicle per cycle is not expected to significantly impact the operation of keys intersections surrounding the Edmondson Street Bridge enhancement site.

3.3.10 Impact on Public Transport

Public Transport Operations

There is not expected to be any impact upon public transport operations is expected during this stage of work.

Access to Public Transport

There will be no change or impact to public transport access during this stage of work.

3.3.11 Impact on Pedestrians and Cyclists

There will be no change to or impact to pedestrian and cyclist facilities or access during this stage of work.

3.3.12 Access for Businesses and Residents

There will be no change to or impact to access for businesses and/or residents during this stage of work.

3.3.13 Changes to Kerbside Management

The removal of on-street carparking along Donnelly Avenue and Little Best Street is proposed to facilitate the movement of construction vehicles travelling between Edward Street and Gate C2. The removal of any car parking will be subject to approval by the relevant authority.

3.3.14 Works Requiring Short Term Traffic Control

Overview

In addition to works within the rail corridor, Stage A works at the Edmondson Street Bridge enhancement site will require short-term traffic control to facilitate site access manoeuvres, high pressure gas works, medium pressure gas works and electrical works. Expected details of these works are provided below.

Location	Activity	Traffic control	Duration	Timing	Expected impacts
Gate E1 – Existing access on Donnelly Avenue	Site access manoeuvres	Hold and release / intermittent stop	Five (5) months		Minor delays to traffic travelling along Donnelly Avenue.
Gate E2 – Existing access	Site access manoeuvres	Hold and release / intermittent stop	Five (5) months		Minor delays to traffic travelling

TABLE 150: SHORT-TERM TRAFFIC CONTROL REQUIREMENTS – EDMONDSON STREET BRIDGE

	Avenue					Avenue.
ſ	Gate E2 – Existing access on Railway Street	Site access manoeuvres	Hold and release / intermittent stop	Five (5) months	Subject to the times permitted	Minor delays to traffic travelling along Railway Street.
	Gate E3 – Existing access on Station Place	Site access manoeuvres	Hold and release / intermittent stop	Five (5) months	times permitted under the appropriate approval issued by the relevant	Minor delays to traffic travelling along Station Place
	Donnelly Avenue / Little Best Street	High pressure gas works (HDD, pipe string and install)	Half road closure	Two (2) months	authority	Removal of parking along Donnelly Avenue
			Full road closure			See below
	Railway Street	Medium pressure gas works (HDD, pipe string and install)	Half road closure / shuttle flow	Two (2) months		Minor delays to traffic travelling along Railway Street

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Location	Activity	Traffic control	Duration	Timing	Expected impacts
MacLeay Street		Shoulder closure			Removal of parking along MacLeay Street
Erin Street		Shoulder closure			Removal of car parking along Erin Street
		Half road closure / shuttle flow			Minor delays to traffic travelling along Erin Street
Edmondson Street		Lane closure(s) / contraflow			Minor delays to traffic travelling along Erin Street
Donnelly Avenue / Little Best Street	Electrical works (cable stringing and pole install)	Full road closure	Five (5) shifts		See below
Edmondson Street					See below
Edward Street		Hold and release / intermittent stops			Minor delays to traffic travelling along Edward
		Lane closure(s)			Street

Donnelly Avenue / Little Best Street Closure

Overview

As detailed in Table 150, high pressure gas works (HDD, pipe strong and install) and electrical works (cable stringing and pole install) are proposed to be facilitated through the closure of Donnelly Avenue and Little Best Street.

Impact on Traffic Flow

As part of the closure of Donnelly Avenue and Little Best Street, traffic will be detoured via Fox Street and Edward Street.





FIGURE 52: DONNELLY AVENUE / LITTLE BEST STREET ROAD CLOSURE

A high-level review of the redistribution of traffic along the detour route associated with the full closure of Donnelly Avenue and Little Best Street is detailed below.

Origin	Destination	Route	Travel time (Google Maps)	Detoured Route	Travel time (Google Maps)
Donnelly Avenue	Edward Street / Best Street	Donnelly Avenue, straight onto Little Best Street, straight onto Best Street, left/right turn onto Edward Street	2 minutes (260m)	Fox Street, right turn onto Edward Street.	2 minutes (240m)

TABLE 151: DETOUR ROUTE REVIEW – DONNELLY AVENUE / LITTLE BEST STREET

Based on the above, the closure of Donnelly Avenue and Little Best Street is not expected to result in any adverse conditions.

Impact on Public Transport

Donnelly Avenue and Little Best Street do not form part of any public transport routes, and therefore the works are not expected to result in any disruptions to existing services.

Impact on Pedestrians and Cyclists

The closure of Donnelly Avenue and Little Best Street is not expected to impact upon existing active transport provisions.

Access for Businesses and Residents

To minimise disruption to local residents located along Donnelly Avenue and Little Best Street, local access will be maintained through the road closure.

Changes to Kerbside Management

The closure of Donnelly Avenue and Little Best Street will result in the removal of car parking along these roads while works are undertaken. The removal of car parking shall be subject to approval by the relevant authority/



Edmondson Street Closure

Overview

As detailed in Table 150, electrical works (cable stringing and pole install) are proposed to be facilitated through the closure of Edmondson Street between Edward Street and Coleman Street.

Impact on Traffic Flow

As part of the closure of Edmondson Street, traffic will be detoured either via:

- **Detour route** 'A': Urana Street (at Mitchelmore Street), MacLeay Street, Railway Street, Lake Albert Road and Edward Street (not suitable for heavy vehicles)
- **Detour route 'B'**: Urana Street (at Mitchelmore Street), Bourke Street, Docker Street and Edward Street (suitable for heavy vehicles refer to Section 4.3).



FIGURE 53: EDMONDSON STREET ROAD CLOSURE

A high-level review of the redistribution of traffic along the detour route associated with the full closure of Edmondson Street is detailed below.

TABLE 152: DETOUR ROUTE REVIEW – EDMONDSON STREET

Origin	Destination	Route	Travel time (Google Maps)	Detoured Route	Travel time (Google Maps)
Mitchelmore Street at Urana Street	Edward Street / Best Street / Edmondson Street	Mitchelmore Street, straight onto Edmondson Street, left/right turn onto Edward Street	4 minutes (1.2km)	Mitchelmore Street, right turn onto Urana Street, left turn onto MacLeay Street, right turn onto Railway Street, left turn onto Lake Albert Road, left turn onto Edward Street.	8 minutes (3.6km)
				Mitchelmore Street, left turn onto Urana Street, right turn onto	7 minutes (2.8km)



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				Bourke Street, straight onto Docker Street, right turn onto Edward Street.	
--	--	--	--	---	--

Based on the above, the closure of Edmondson Street is expected to result in delays up to four (4) minutes. To ensure that impacts on traffic flow associated with the closure are minimised, the closure will be implemented at times subject to the approval by the relevant authority.

Impact on Public Transport

It is anticipated that the closure of Edmondson Street will be implemented after the last service and removed prior the first service the following morning. Consultation will be undertaken with TfNSW should the timing of the closure impact upon the operation of existing services.

Impact on Pedestrians and Cyclists

The closure of Edmondson Street is not expected to impact upon existing active transport provisions.

Access for Businesses and Residents

The closure of Edmondson Street is not expected to impact upon the ability persons to access businesses or local residencies.

Changes to Kerbside Management

The closure of Edmondson Street is not expected to require any changes to kerbside allocations.



4 ROAD SAFETY ASSESSMENT OF CONSTRUCTION VEHICLE ACCESS ROUTES

4.1 Background

The approach to the assessment of construction vehicle access routes from a road safety perspective is to provide a safe road environment aligning with the Safe System. The Safe System is usually considered in terms of key interacting 'pillars':

- Safe roads
- Safe speeds
- Safe vehicles
- Safe people.

Road Safety Assessments have been undertaken at locations along the Construction Access Routes where the use of lower order roads (i.e., local roads), not forming part of a pre-approved heavy vehicle network (i.e. B-double) are proposed. The Road Safety Assessments evaluate any potential impacts associated with the use of roads along the designated access routes by construction heavy vehicles and align with the Safe System by:

- A crash history analysis to understand crashes and risks
 - A review of historical crash data provides a way to look at factors contributing to the likelihood or consequence of crashes.
- A turn path analysis
 - By undertaking turn path analysis, the mobility of construction vehicles can be evaluated, and potential risks associated with introducing construction vehicles is able to be attained.
- A risk assessment in the road safety context (comparing the current level of risk (i.e., current traffic) with the proposed level of risk (i.e., current traffic plus construction traffic)).
 - A risk assessment based on network road design attributes supplemented by crash data considering potential safety or transport issues.

The analysis has been undertaken to consider:

- Urana Street between Pearson Street and Mitchelmore Street.
- Murray Street between Edward Street and Brookong Avenue
- Brookong Avenue between Murray Street and the site access.
- Donnelly Avenue between Fox Street and Little Best Street.
- Little Best Street between Donnelly Avenue and Best Street.
- Edmondson Street / Best Street between Edward Street and Erin Street.
- Erin Street between Edmondson Street and MacLeay Street.
- MacLeay Street between Erin Street and Railway Street.
- Railway Street.
- Station Place.
- Docker Street / Bourke Street between Edward Street and Urana Street).

4.2 Crash History

4.2.1 Background

While it is recognised that as part of *Technical Paper 1 – Traffic and Transport* a crash analysis was undertaken, limited findings were presented, with the following observations made:

- Pearson Street Bridge enhancement site:
 - o Edward Street / Pearson Street (key road links and intersection) crash cluster at intersection
 - Pearson Street / Dobney Avenue (key road links and intersection) crash cluster at intersection
 - Edward Street (key road link) one fatal crash in 2018.
 - Cassidy Parade pedestrian bridge / Edmondson Street bridge enhancement sites:
 - o Sturt Highway / Edward Street (key road link) a higher concentration than surrounding areas
 - Docker Street (key road link) a higher concentration than surrounding areas
 - Sturt Highway / Edward Street / Docker Street (key intersection) a higher concentration than surrounding areas
 - Coleman Street (key road link) one fatal crash occurring in 2017.

Unlike the initial analysis undertaken, this analysis has been conducted to identify predominant crash types and any crash patterns or trends along particular sections of construction vehicle access routes and identify contributing factors and discuss potential countermeasures where required. The analysis comprises the following steps:



- The first step of the analysis involves obtaining electronically the detail of each of the recorded crashes that occurred within the bounds of the construction vehicle access routes. Crash data used in this assessment has been sourced from the *Transport for NSW, Interactive Crash Statistics (https://www.transport.nsw.gov.au/roadsafety/statistics/interactive-crash-statistics).*
- Next, to identify whether a particular location has a potential crash problem, an initial analysis of crash frequency has been undertaken (i.e., number of crashes) with respect to the lower limiting threshold values (i.e., locations with three (3) or more recorded crashes) is first undertaken. Where the number of crashes at a particular location exceeds the lower limiting threshold, a further desktop analysis has been undertaken to identify predominant crash types (i.e., rear-end, head-on etc.) and common crash characteristics (i.e., time-of-day, day/night/duck etc. of the occurrence of all the recorded crashes). Through the identification and summation of predominant crash types at a particular location, comparison against crash-specific threshold values is undertaken to determine whether further analysis of crash causation is required, and investigation of countermeasures.

TABLE 153: CRASH HISTORY THRESHOLDS

Type of location	Number of towaway and casualty crashes in five (5) years							
and criteria	Pedestrian	Intersection	Rear-end, overtaking, vehicle turning	Right-turn- against, oncoming	Off-road lost control, head-on	Manoeuvring	Lower limiting threshold (further analysis required)	
Cross- intersection (not signalised or roundabout		3	5	5			3	
Non- signalised intersection (not roundabout or cross- intersection)		4	5	5			4	
Signalised intersection		5	9	5			5	
Roundabout		5	5				5	
Rural intersection ("Give Way" or "Stop" control)		3	4	4		3	3	
Urban mid- block location			3	3	3	4	3	
Rural mid- block location			3	3	3		3	
Mid-block location with a pedestrian	3						3	



Type of location	Number of towaway and casualty crashes in five (5) years							
and criteria	Pedestrian	Intersection	Rear-end, overtaking, vehicle turning	Right-turn- against, oncoming	Off-road lost control, head-on	Manoeuvring	Lower limiting threshold (further analysis required)	
crash problem								

Threshold numbers are representative of high-volume roads, with some non-injury crashes report (Austroads Guide to Road Safety, Part 2: Safe Roads - Table 4.1)

Urban = 80km/hr or lower, rural = over 80km/hr

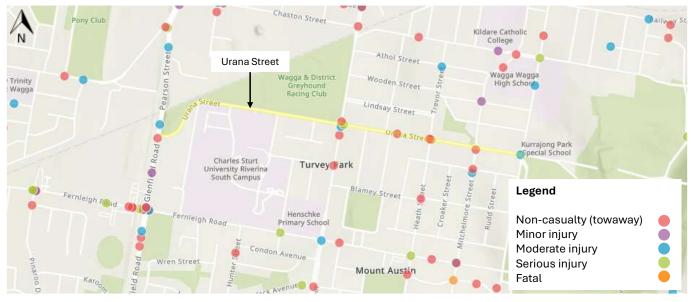
'Mid-block' means a length of road between intersections

For intersection locations, include crashes within 30m (urban) or 100m (rural)\.

4.2.2 Crash Analysis

Urana Street (between Pearson Street and MacLeay Street)

The figure below shows the location of crashes along the section of Urana Street, between Pearson Street and McLeay Street, recorded between the period from 2019 to 2023



CRASH LOCATIONS ALONG URANA STREET BETWEEN PEARSON STREET AND MCLEAY FIGURE 54: **STREET FROM 2019 TO 2023**

From the available data, 10 crashes were recorded along or proximate to Urana Street:

- One (1) crash proximate to the Glenfield Road / Urana Street roundabout
 - Non-casualty (towaway) 0
 - Three (3) crashes proximate to the Urana Street / Bourke Street roundabout
 - One (1) non-casualty (towaway) 0
 - One (1) moderate injury 0
 - One (1) serious injury 0
- One (1) crash on Urana Street between Halloran Street and Heath Street Non-casualty (towaway) 0
- Three (3) crashes proximate to the Urana Street / Heath Street intersection:
 - Two (1) non-casualties (towaway) 0
 - 0 One (1) serious injury
- One (1) crash proximate to the Urana Street / Mitchelmore Street roundabout

-

- Non-casualty (towaway)
- One (1) crash proximate to the Urana Street / MacLeay Street roundabout:
 Moderate injury.

It is noted that the number of crashes recorded at the Urana Street / Heath Street intersection exceed the lower limiting threshold for a non-signalised cross-intersection. A further analysis of crash types (RUM) is provided below.

A.N.	R. B. Sunchine Avenue
Urana Street	A State of the second s
	Urana Street
	Viana Street
Legend	Set a subscription of the second
Non-casualty (towaway) Minor injury	Meydan Avenue
Moderate injury Serious injury	Heydon Avenue
Fatal	

FIGURE 55:CRASH LOCATIONS AT THE URANA STREET / HEATH STREET INTERSECTIONTABLE 154:DETAILS OF CRASHES AT THE URANA STREET / HEATH STREET INTERSECTION

Reporting year	Degree of crash	RUM – code	RUM – description	Type of location	Natural lighting
2019	Non-casualty (towaway)	10	Cross traffic	X-intersection	Daylight
2019	Serious injury	10	Cross traffic	X-intersection	Dusk
2021	Non-casualty (towaway)	10	Cross traffic	X-intersection	Daylight

The information presented in the above table shows that the predominant crash type in the period from 2019 to 2023 involved vehicles from the adjacent direction (RUM code 10), whereby all three (3) recorded crashes at the Urana Street / Heath Street roundabout exhibited this crash type.

These types of crashes can be caused by several factors including:

- Restricted sight distance
- High approach speeds
- 'See through' effect on a minor road approach
- Obscured control sign, control lines or signal lanterns
- The presence of the intersection is not otherwise evident (at time of day)
- Traffic volumes too high for "Give Way" or "Stop" controls (inadequate gaps).

Countermeasures for these types of crashes typically include checking sight distance available and where practical, clear obstructions (including parked vehicles) to provide the appropriate standard of sight distance. An assessment of available sight distance at the intersection has been undertaken using *Google Maps* below.

TABLE 155: SIGHT DISTANCE CHECKS AT THE URANA STREET / HEATH STREET INTERSECTION

Approach		Approach sight distance		Approach sight distance Safe intersection sight distance		ion sight	Minimum gap distance	sight
	Posted speed	Requirement	Available	Requirement	Available	Requirement	Available	
Urana Street (eastbound)		N/	A	123m	Greater than 123m	55m	Greater than 55m	
Urana Street (westbound)	50km/hr	N/A			Greater than 123m		Greater than 55m	
Heath Street (northbound)		Greater than 73m		N/A			Greater than 69m	
Trevor Street (southbound)			73m Greater than 73m				Greater than 69m	

As detailed in above table, sight distance at the intersection appears to be adequate. Other countermeasures include checking visibility of traffic control devices (i.e., "Give Way" signs and line marking) and installation of appropriate warning signs and devices. An assessment of these and other typical countermeasures applicable to this location is provided below.

TABLE 156:TRAFFIC CONTROL VISIBILITY CHECKS AT THE URANA STREET / HEATH STREETINTERSECTION

Countermeasure	Comment
Check day and night visibility of traffic control devices and consider renewing, duplicating, delineating or enlarging the device.	Traffic control devices appear to be visible to approaching traffic.
Consider the installation of appropriate warning signs and devices.	Provisions of "Give Way Ahead" signs on side roads and/or "Cross Road" signs on Urana Street.
Where a high frequency of night crashes is involved, consider adding or amending street lighting.	Crashes predominantly were recorded to occur during daylight hours.
Consider installation of channelisation such as median islands to support control devices on side road approaches, wide median treatments (where appropriate) and staggered intersection treatments in rural areas.	Median islands appear present on the Heath Street and Trevor Street approaches

With reference to the above table consideration should be given to the installation of appropriate warning signs and devices to the identified crashes.

Murray Street (between Edward Street and Brookong Avenue)

The figure below shows the location of crashes along the section of Urana Street, between Pearson Street and McLeay Street, recorded between the period from 2019 to 2023





FIGURE 56: CRASH LOCATIONS ALONG MURRAY STREET BETWEEN EDWARD STREET AND BROOKONG AVENUE FROM 2019 TO 2023

From the available data, seven (7) crashes were recorded along or proximate to Murray Street:

- Five (5) crashes proximate to the Edward Street / Murray Street intersection
 - Two (2) non-casualties (towaway)
 - Two (2) moderate injuries
 - One (1) serious injury
- One (1) crash proximate to the Murray Street / Salmon Street intersection
 Serious injury
- One (1) crash on Murray Street between Brookong Avenue and Yathong Street
 Non-casualty (towaway).

It is noted that the number of crashes recorded at the Edward Street / Murray Street intersection exceed the lower limiting threshold for a non-signalised cross-intersection. A further analysis of crash types (RUM) is provided below.



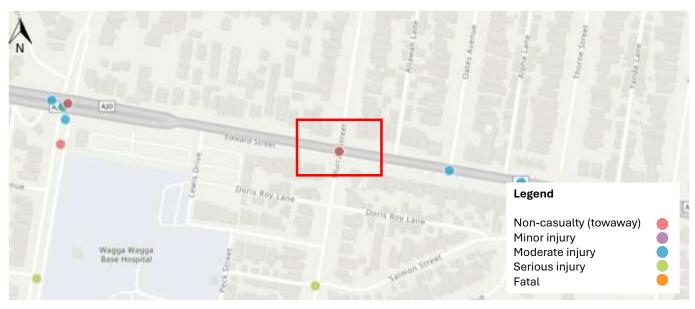


FIGURE 57:CRASH LOCATIONS AT THE EDWARD STREET / MURRAY STREET INTERSECTIONTABLE 157:DETAILS OF CRASHES AT THE EDWARD STREET / MURRAY STREET INTERSECTION

Reporting year	Degree of crash	RUM – code	RUM – description	Type of location	Natural lighting
2019	Moderate injury	10	Cross traffic	X-intersection	Daylight
2022	Serious injury	21	Right through	X-intersection	Daylight
2022	Non-casualty (towaway)	10	Cross traffic	X-intersection	Daylight
2022	Non-casualty (towaway)	10	Cross traffic	X-intersection	Daylight
2022	Moderate injury	21	Right through	X-intersection	Daylight

The information presented in the above table shows that the predominant crash type in the period from 2019 to 2023 involved vehicles from the adjacent direction (RUM code 10), whereby three (3) recorded crashes at the Edward Street / Murray Street intersection exhibited this crash type. It is however noted that all recorded crashes occurred prior to the upgrade of the Edward Street / Murray Street intersection to be signalised in 2023.

Brookong Avenue (between Murray Street and the site access)

The figure below shows the location of crashes along Brookong Avenue, between Murray Street and the site access recorded between the period from 2019 to 2023.





FIGURE 58: CRASH LOCATIONS ALONG BROOKONG AVENUE BETWEEN MURRAY STREET AND THE SITE ACCESS FROM 2019 TO 2023

From the available data, no crashes were recorded along Brookong Avenue the period between 2019 and 2023.

Donnelly Avenue (between Fox Street and Little Best Street)

The figure below shows the location of crashes along Donnelly Avenue, between Fox Street and Little Best Street, recorded between the period from 2019 to 2023.



FIGURE 59: CRASH LOCATIONS ALONG DONNELLY AVENUE BETWEEN FOX STREET AND LITTLE BEST STREET FROM 2019 TO 2023

From the available data, no crashes were recorded along Cassidy Parade during the period between 2019 and 2023.

Little Best Street (between Donnelly Avenue and Best Street)

The figure below shows the location of crashes along Little Best Street, between Donnelly Avenue and Best Street, recorded between the period from 2019 to 2023.



FIGURE 60: CRASH LOCATIONS ALONG LITTLE BEST STREET BETWEEN DONNELLY AVENUE AND BEST STREET FROM 2019 TO 2023

From the available data, no crashes were recorded along Little Best Street during the period between 2019 and 2023.

Edmondson Street / Best Street (between Edward Street and Erin Street

The figure below shows the location of crashes along Edmondson Street / Best Street, between Edward Street and Erin Street recorded between the period from 2019 to 2023.



FIGURE 61: CRASH LOCATIONS ALONG EDMONDSON STREET BETWEEN EDWARD STREET AND ERIN STREET FROM 2019 TO 2023

From the available data, four (4) crashes were recorded along or proximate to Edmondson Street:

- Four (4) crashes proximate to the Edward Street / Edmondson Street / Best Street intersection
 - Three (3) non-casualties (towaway)
 - One (1) moderate injury.

INLAND MARTINUS RAIL

With respect to the identified thresholds, the occurrence of four (4) crashes on Edmondson Street is not considered to not present any trends or patterns warranting further investigation.

Erin Street (between Edmondson Street and MacLeay Street)

The figure below shows the location of crashes along Erin Street, between Edmondson Street and Macleay Street, recorded between the period from 2019 to 2023.

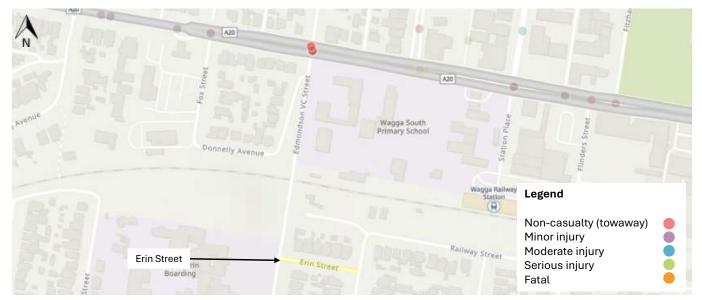


FIGURE 62: CRASH LOCATIONS ALONG ERIN STREET BETWEEN EDMONDSON STREET AND MACLEAY STREET FROM 2019 TO 2023

From the available data, no crashes were recorded along Erin Street during the period between 2019 and 2023.

MacLeay Street (between Erin Street and Railway Street)

The figure below shows the location of crashes along MacLeay Street, between Erin Street and Railway Street, recorded between the period from 2019 to 2023.



FIGURE 63: CRASH LOCATIONS ALONG MACLEAY STREET BETWEEN ERIN STREET AND RAILWAY STREET FROM 2019 TO 2023

From the available data, no crashes were recorded along MacLeay Street during the period between 2019 and 2023.

Railway Street

The figure below shows the location of crashes along Railway Street, recorded between the period from 2019 to 2023.



FIGURE 64: CRASH LOCATIONS ALONG RAILWAY STREET

From the available data, no crashes were recorded along Railway Street during the period between 2019 and 2023.

Station Place

The figure below shows the location of crashes along Station Place, recorded between the period from 2019 to 2023.



FIGURE 65: CRASH LOCATIONS ALONG STATION PLACE FROM 2019 TO 2023

From the available data, three (3) crashes were recorded along or proximate to Station Place:

- Three (3) crashes proximate to the Edward Street / Station Place intersection
 - One (1) non-casualty (towaway)
 - One (1) minor injury
 - One (1) moderate injury.

With respect to the identified thresholds, the occurrence of three (3) crashes on Station Place is not considered to not present any trends or patterns warranting further investigation.

Docker Street / Bourke Street (between Edward Street and Urana Street)

The figure below shows the location of crashes along the section of Docker Street / Bourke Street, between Edward Street and Urana Street, recorded between the period from 2019 to 2023.

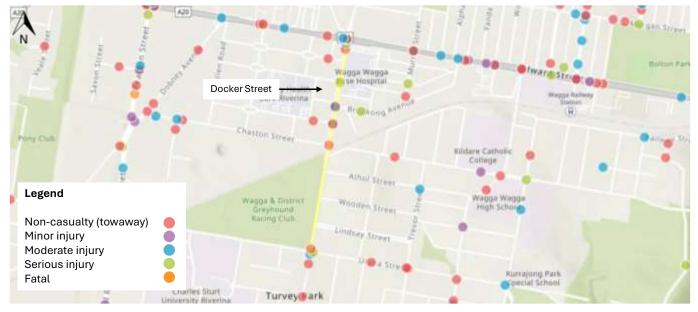


FIGURE 66: CRASH LOCATIONS ALONG DOCKER STREET / BOURKE STREET BETWEEN EDWARD STREET AND URANA STREET FROM 2019 TO 2023

From the available data, 15 crashes were recorded along or proximate to Docker Street / Bourke Street:

- Eight (8) crashes proximate to the Edward Street / Docker Street intersection
 - Three (3) non-casualties (towaway)
 - Four (4) moderate injuries
 - One (1) serious injury.
- One (1) crash on Docker Street between the Edward Street and Gormly Avenue
 One (1) non-casualty (towaway)
- One (1) non-casualty (towaway)
 One (1) crash at the Docker Street / Hardy Avenue intersection
 - One (1) serious injury
- Two (2) crashes at the Docker Street / Brookong Avenue intersection
 - One (1) minor / other injury
 - One (1) moderate injury.
- Two (2) crashes at the Docker Street / Meurant Avenue intersection
 - One (1) non-casualty (towaway)
 - One (1) moderate injury
- One (1) crash at the Docker Street / Chaston Street intersection
 - One (1) non-casualty (towaway).
- Three (3) crashes proximate to the Bourke Street / Urana Street roundabout
 - One (1) non-casualty (towaway)
 - One (1) moderate injury
 - \circ One (1) serious injury.

It is noted that the number of crashes recorded at the Edward Street / Docker Street intersection exceed the lower limiting threshold for a signalised intersection. A further analysis of crash types (RUM) is provided below.





FIGURE 67:CRASH LOCATIONS AT THE EDWARD STREET / DOCKER STREET INTERSECTIONTABLE 158:DETAILS OF CRASHES AT THE EDWARD STREET / DOCKER STREET INTERSECTION

Reporting year	Degree of crash	RUM – code	RUM – description	Type of location	Natural lighting
2019	Moderate injury	30	Rear end	Divided road	Daylight
2019	Non-casualty (towaway)	21	Right through	X-intersection (signalised)	Daylight
2020	Non-casualty (towaway)	10	Cross traffic	X-intersection (signalised)	Daylight
2021	Non-casualty (towaway)	21	Right through	X-intersection (signalised)	Daylight
2022	Moderate injury	30	Rear end	X-intersection (signalised)	Daylight
2022	Moderate injury	30	Rear end	X-intersection (signalised)	Darkness
2023	Moderate injury	30	Rear end	X-intersection (signalised)	Daylight
2023	Serious injury	10	Cross traffic	X-intersection (signalised)	Daylight

Of the eight (8) recorded crashes at the Edward Street / Docker Street intersection:

- Two (2) crashes were recorded to be right-through in nature.
- Two (2) crashes were recorded to be cross-traffic in nature.
- Four (4) crashes were recorded to be rear-end in nature.

The occurrence of these types of crashes on Docker Street does not warrant further investigation, with respect to the crashspecific threshold values presented in the table above.

4.3 Swept Path Analysis

To ensure that construction vehicles can safely manoeuvre along the identified construction routes, a review of vehicle movements at intersections has been undertaken. A summary of identified construction routes to be utilised by construction vehicles throughout the Stage A works is provided in Table 159 below.

TABLE 159: CONSTRUCTION ACCESS ROUTES

Enhancement site / detour route	Access route number	Access route
Pearson Street Bridge	PI1	Edward Street, left/right turn onto Pearson Street, through onto Dobney Avenue, left turn onto Pearson Street, left turn onto Cheshire Street.
	PO1	Cheshire Street, right turn onto Pearson Street, right turn onto Dobney Avenue, through onto Pearson Street, left/right turn onto Edward Street.
	PI1	Edward Street, left/right turn onto Pearson Street, through onto Dobney Avenue, left turn onto Pearson Street, left turn onto Urana Street.
	PO2	Urana Street, left turn onto Pearson Street, right turn onto Dobney Avenue, through onto Pearson Street, left/right turn onto Edward Street.
Cassidy Parade Pedestrian Bridge	CI1	Edward Street, left/right turn onto Murray Street, left turn onto Brookong Avenue.
	CO1	Brookong Avenue, right turn onto Murray Street, left/right turn onto Edward Street.
	CI2	Edward Street, left/right turn onto Fox Street.
	CO2	Fox Street, left/right turn onto Edward Street.
Edmondson Street Bridge	EI1	Edward Street, left/right turn onto Fox Street, straight onto Donnelly Avenue
	EO1	Donnelly Avenue, straight onto Little Best Street, left turn onto Edward Street
	El2	Edward Street, left/right turn onto Edmondson Street, left turn onto Erin Street, left turn onto MacLeay Street, left turn onto Railway Street.
	EO2	Railway Street, right turn onto MacLeay Street, right turn onto Erin Street, right turn onto Edmondson Street, left/right turn onto Edward Street
	EI3	Edward Street, left/right turn onto Lake Albert Road, right turn onto Railway Street.
	EO3	Railway Street, left turn onto Lake Albert Road, left/right turn onto Edward Street.



Enhancement site / detour route	Access route number	Access route
	El4	Edward Street, left/right turn onto Station Place, Straight onto Station Place loop.
	EO4	Station Place loop, straight onto Station Place, right turn onto Edward Street.
Edmondson Street Bridge closure	ECN1	Mitchelmore Street (northbound), left turn onto Urana Street, right turn onto Bourke Street, left/right turn onto Edward Street.
	ECS1	Edward Street, left onto Bourke Street, left onto Urana Street, right onto Mitchelmore Street.

Along each of these construction routes, key movements at intersections were identified. An initial assessment undertaken by WSP, detailed within Appendix D of the *Addendum Assessment to Technical Paper 1: Traffic and Transport* determining whether:

- There was evidence of heavy vehicles performing the manoeuvre
- The manoeuvre formed part of a pre-approved heavy vehicle route (i.e., B-double).

Where it was evaluated that there was insufficient evidence of heavy vehicles performing a manoeuvre and/or the manoeuvre did not form part of a pre-approved route heavy vehicle route, an intersection impact assessment (swept path analysis) was conducted. For those movements associated with the identified Stage A construction vehicle access routes, a summary of the assessment undertaken by WSP is provided in Table 160.

With reference to the initial assessment undertaken by WSP and the expected vehicle combinations proposed to facilitate the Stage A works detailed in Section 3.1.6, 3.2.6 and 3.3.6, a further assessment has been undertaken to identify locations where a further analysis may be required to demonstrate the ability for construction vehicles to safely perform the necessary manoeuvres.



TABLE 160: INTERSECTION IMPACT ASSESSMENT

Enhancement site	Access route	Movement	Previous assessment undertaken by WSP	Further assessment required
Pearson Street Bridge	PI1	Edward Street right turn onto Pearson Street	Intersection is currently approved as a 19m B- double route (TfNSW Restricted Vehicle Access Map); thus, assumption is that articulated trucks can sufficiently move through this intersection	While the approach taken by WSP is recognised for the movement of combinations up to and including a 19.0m truck and dog, the manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi-trailer, demonstrating the ability for the vehicle to manoeuvre – refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 1 of</i> 35 provided in Appendix C
		Edward Street left turn onto Pearson Street	Intersection is currently approved as a 19m B- double route (TfNSW Restricted Vehicle Access Map); thus, assumption is that articulated trucks can sufficiently move through this intersection	While the approach taken by WSP is recognised for the movement of combinations up to and including a 19.0m truck and dog, the manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi-trailer, demonstrating the ability for the vehicle to manoeuvre – refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 2 of</i> 35 provided in Appendix C.
		Pearson Street straight onto Dobney Avenue	-	The manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi-trailer, demonstrating the ability for the vehicle to manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-</i> <i>001 Sheet 3 of</i> 35 provided in Appendix C.
		Dobney Avenue left turn onto Pearson Street	-	The manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path analysis has



Enhancement site	Access route	Movement	Previous assessment undertaken by WSP	Further assessment required
				been undertaken for a 19.0m semi-trailer, demonstrating the ability for the vehicle to manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-</i> <i>001 Sheet 4 of</i> 35 provided in Appendix C.
		Pearson Street left turn onto Cheshire Street	Intersection is currently approved as a 19m B- double route (TfNSW Restricted Vehicle Access Map); thus, assumption is that articulated trucks can sufficiently move through this intersection	This manoeuvre will be performed under traffic control
	PO1	Cheshire Street right turn onto Pearson Street	Intersection is currently approved as a 19m B- double route (TfNSW Restricted Vehicle Access Map); thus, assumption is that articulated trucks can sufficiently move through this intersection	This manoeuvre will be performed under traffic control
		Pearson Street right turn onto Dobney Avenue	-	The manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi-trailer, demonstrating the ability for the vehicle to manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-</i> <i>001 Sheet 5 of</i> 35 provided in Appendix C.
		Dobney Avenue straight onto Pearson Street	-	The manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi-trailer, demonstrating the ability for the vehicle to manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-</i> <i>001 Sheet 6 of</i> 35 provided in Appendix C.
		Pearson Street left turn onto Edward Street	Intersection is currently approved as a 19m B- double route (TfNSW Restricted Vehicle Access	While the approach taken by WSP is recognised for the movement of combinations up to and including a 19.0m truck and dog, the manoeuvre is



Enhancement site	Access route	Movement	Previous assessment undertaken by WSP	Further assessment required
			Map); thus, assumption is that articulated trucks can sufficiently move through this intersection	proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi-trailer, demonstrating the ability for the vehicle to manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 7 of</i> 35 provided in Appendix C.
		Pearson Street right turn onto Edward Street	Intersection is currently approved as a 19m B- double route (TfNSW Restricted Vehicle Access Map); thus, assumption is that articulated trucks can sufficiently move through this intersection	While the approach taken by WSP is recognised for the movement of combinations up to and including a 19.0m truck and dog, the manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi-trailer, demonstrating the ability for the vehicle to manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 8 of</i> 35 provided in Appendix C.
	PI2	Pearson Street left turn onto Urana Street	Main road intersection suggesting sufficient access for articulated vehicles to use roundabout.	The manoeuvre is proposed to be undertaken by a 12.5 single unit truck, and occasionally by a 19.0m truck and dog to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 12.5m single unit truck and 19.0m truck and dog, demonstrating the ability for a vehicle to perform the manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 9 of</i> 35 and <i>Sheet 11 of</i> 35 provided in Appendix C.
	PO2	Urana Street right turn onto Pearson Street.	Main road intersection suggesting sufficient access for articulated vehicles to use roundabout.	The manoeuvre is proposed to be undertaken by a 12.5 single unit truck, and occasionally by a 19.0m truck and dog to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 12.5m single unit truck and 19.0m truck and



Enhancement site	Access route	Movement	Previous assessment undertaken by WSP	Further assessment required
				dog, demonstrating the ability for a vehicle to perform the manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 10 of</i> 35 and <i>Sheet 12 of 35</i> provided in Appendix C.
Cassidy Parade Pedestrian Bridge	CI1	Edward Street right turn onto Murray Street	-	The manoeuvre is proposed to be undertaken by a 12.5 single unit truck, and occasionally by a 19.0m truck and dog to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 12.5m single unit truck and 19.0m truck and dog, demonstrating the ability for a vehicle to perform the manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 13 of 35</i> and <i>Sheet 15 of 35</i> provided in Appendix C.
		Edward Street left turn onto Murray Street	-	The manoeuvre is proposed to be undertaken by a 12.5 single unit truck, and occasionally by a 19.0m truck and dog to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 12.5m single unit truck and 19.0m truck and dog, demonstrating the ability for a vehicle to perform the manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 14 of</i> 35 and <i>Sheet 16 of</i> 35 provided in Appendix C.
		Murray Street left turn onto Brookong Avenue	-	The manoeuvre is proposed to be undertaken by a 12.5 single unit truck, and occasionally by a 19.0m truck and dog to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 12.5m single unit truck and 19.0m truck and dog, demonstrating the ability for a vehicle to perform the manoeuvre - refer to drawing <i>MR-A2I</i> -



Enhancement site	Access route	Movement	Previous assessment undertaken by WSP	Further assessment required
				<i>WW-SPA-001 Sheet 17 of</i> 35 and <i>Sheet 19 of 35</i> provided in Appendix C.
	CO1	Brookong Avenue right turn onto Murray Street	-	The manoeuvre is proposed to be undertaken by a 12.5 single unit truck, and occasionally by a 19.0m truck and dog to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 12.5m single unit truck and 19.0m truck and dog, demonstrating the ability for a vehicle to perform the manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 18 of</i> 35 and <i>Sheet 20 of</i> 35 provided in Appendix C.
		Murray Street right turn onto Edward Street	-	The manoeuvre is proposed to be undertaken by a 12.5 single unit truck, and occasionally by a 19.0m truck and dog to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 12.5m single unit truck and 19.0m truck and dog, demonstrating the ability for a vehicle to perform the manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 21 of</i> 35 and <i>Sheet 23 of</i> 35 provided in Appendix C.
		Murray Street left turn onto Edward Street	-	The manoeuvre is proposed to be undertaken by a 12.5 single unit truck, and occasionally by a 19.0m truck and dog to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 12.5m single unit truck and 19.0m truck and dog, demonstrating the ability for a vehicle to perform the manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 22 of 35</i> and <i>Sheet 24 of 35</i> provided in Appendix C.



Enhancement site	Access route	Movement	Previous assessment undertaken by WSP	Further assessment required
	CI2	Edward Street left/right turn onto Fox Street	Intersection is currently approved as a 19m B- double route (TfNSW Restricted Vehicle Access Map); thus, assumption is that articulated trucks can sufficiently move through this intersection	Vehicles larger than a 19.0m truck and dog are not proposed to travel along access route Cl2. As such, the assessment undertaken by WSP has been adopted.
	CO2	Fox Street left/right turn onto Edward Street	Intersection is currently approved as a 19m B- double route (TfNSW Restricted Vehicle Access Map); thus, assumption is that articulated trucks can sufficiently move through this intersection	Vehicles larger than a 19.0m truck and dog are not proposed to travel along access route Cl2. As such, the assessment undertaken by WSP has been adopted.
Edmondson Street Bridge	EI1	Edward Street left/right turn onto Fox Street	Intersection is currently approved as a 19m B- double route (TfNSW Restricted Vehicle Access Map); thus, assumption is that articulated trucks can sufficiently move through this intersection	Vehicles larger than a 19.0m truck and dog are not proposed to travel along access route Cl2. As such, the assessment undertaken by WSP has been adopted.
		Fox Street straight onto Donnelly Avenue	-	The manoeuvre is proposed to be undertaken by a 12.5m single unit truck to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 12.5m single unit truck, demonstrating the ability for the vehicle to perform the manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 25 of</i> 35 provided in Appendix C.
	EO1	Donnelly Avenue straight onto Little Best Street	-	The manoeuvre is proposed to be undertaken by a 12.5m single unit truck to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 12.5m single unit truck, demonstrating the ability for the vehicle to perform the manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 25 of 35</i> provided in Appendix C.
		Best Street right turn onto Edward Street	Main road intersection suggesting sufficient access for articulated vehicles to use intersection.	The manoeuvre is proposed to be undertaken by a 12.5m single unit truck to facilitate the Stage A works. As such, a swept path analysis has been



Enhancement site	Access route	Movement	Previous assessment undertaken by WSP	Further assessment required
				undertaken for a 12.5m single unit truck, demonstrating the ability for the vehicle to perform the manoeuvre - refer to drawing <i>MR-A2I-WW-</i> <i>SPA-001 Sheet 26 of</i> 35 provided in Appendix C.
		Best Street left turn onto Edward Street	Main road intersection suggesting sufficient access for articulated vehicles to use intersection.	The manoeuvre is proposed to be undertaken by an 8.8m service vehicle to facilitate the Stage A works. As such, a swept path analysis has been undertaken for an 8.8m service vehicle, demonstrating the ability for the vehicle to perform the manoeuvre - refer to drawing <i>MR-A2I-WW-</i> <i>SPA-001 Sheet 27 of</i> 35 provided in Appendix C.
	EI2	Edward Street right turn onto Best Street / Edmondson Street	Main road intersection suggesting sufficient access for articulated vehicles to use intersection.	The manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi-trailer, demonstrating the ability for the vehicle to perform the manoeuvre - refer to drawing <i>MR-A2I-WW-</i> <i>SPA-001 Sheet 28 of</i> 35 provided in Appendix C.
		Edmondson Street left turn onto Best Street / Edmondson Street	Main road intersection suggesting sufficient access for articulated vehicles to use intersection.	The manoeuvre is proposed to be undertaken by a 12.5m single unit truck to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 12.5m semi-trailer, demonstrating the ability for the vehicle to perform the manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 29</i> of 35 provided in Appendix C.
		Edmondson Street left turn onto Erin Street	Drawing 2-0008-210-DCW-03-MD-001- Edmondson Sheet 3 of 6 prepared by WSP demonstrates the ability for a 19.0m truck and dog to perform the manoeuvre	While the previous assessment undertaken by WSP is recognised for the movement of combinations up to and including a 19.0m truck and dog, the manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to



Enhancement site	Access route	Movement	Previous assessment undertaken by WSP	Further assessment required
				facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi- trailer, demonstrating the ability for the vehicle to manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-</i> <i>001 Sheet 30 of</i> 35 provided in Appendix C.
		Erin Street left turn onto MacLeay Street	Drawing 2-0008-210-DCW-03-MD-001- Edmondson Sheet 5 of 6 prepared by WSP demonstrates the ability for a 19.0m truck and dog to perform the manoeuvre	While the previous assessment undertaken by WSP is recognised for the movement of combinations up to and including a 19.0m truck and dog, the manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi-trailer, demonstrating the ability for the vehicle to manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 31 of 35</i> provided in Appendix C.
	EO2	MacLeay right turn onto Erin Street	Drawing 2-0008-210-DCW-03-MD-001- Edmondson Sheet 5 of 6 prepared by WSP demonstrates the ability for a 19.0m truck and dog to perform the manoeuvre	While the previous assessment undertaken by WSP is recognised for the movement of combinations up to and including a 19.0m truck and dog, the manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi- trailer, demonstrating the ability for the vehicle to manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-</i> <i>001 Sheet 31 of</i> 35 provided in Appendix C.
		Erin Street right turn onto Edmondson Street	Drawing 2-0008-210-DCW-03-MD-001- Edmondson Sheet 3 of 6 prepared by WSP demonstrates the ability for a 19.0m truck and dog to perform the manoeuvre	While the previous assessment undertaken by WSP is recognised for the movement of combinations up to and including a 19.0m truck and dog, the manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path



Enhancement site	Access route	Movement	Previous assessment undertaken by WSP	Further assessment required
				analysis has been undertaken for a 19.0m semi- trailer, demonstrating the ability for the vehicle to manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-</i> 001 Sheet 30 of 35 provided in Appendix C.
		Edmondson Street / Best Street right turn onto Edward Street	Main road intersection suggesting sufficient access for articulated vehicles to use intersection.	The manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi-trailer, demonstrating the ability for the vehicle to manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-</i> <i>001 Sheet 32 of</i> 35 provided in Appendix C.
	EI3	Edward Street right turn onto Lake Albert Road	Intersection is currently approved as a 19m B- double route (TfNSW Restricted Vehicle Access Map); thus, assumption is that articulated trucks can sufficiently move through this intersection	While the approach taken by WSP is recognised for the movement of combinations up to and including a 19.0m truck and dog, the manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi-trailer, demonstrating the ability for the vehicle to manoeuvre – refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 33 of</i> 35 provided in Appendix C.
		Edward Street left turn onto Lake Albert Road	Intersection is currently approved as a 19m B- double route (TfNSW Restricted Vehicle Access Map); thus, assumption is that articulated trucks can sufficiently move through this intersection	Vehicles larger than a 19.0m truck and dog are not proposed to undertake the manoeuvre. As such, the assessment undertaken by WSP has been adopted.
		Lake Albert Road right turn onto Railway Street	Drawing 2-0008-210-DCW-03-MD-001-Wagga Station Sheet 4 of 4 prepared by WSP demonstrates the ability for a 19.0m truck and dog to perform the manoeuvre	While the previous assessment undertaken by WSP is recognised for the movement of combinations up to and including a 19.0m truck and dog, the manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to



Enhancement site	Access route	Movement	Previous assessment undertaken by WSP	Further assessment required
				facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi- trailer, demonstrating the ability for the vehicle to manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-</i> <i>001 Sheet 34 of</i> 35 provided in Appendix C.
	EO3	Railway Street left turn onto Lake Albert Road	Drawing 2-0008-210-DCW-03-MD-001-Wagga Station Sheet 4 of 4 prepared by WSP demonstrates the ability for a 19.0m truck and dog to perform the manoeuvre	While the previous assessment undertaken by WSP is recognised for the movement of combinations up to and including a 19.0m truck and dog, the manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi-trailer, demonstrating the ability for the vehicle to manoeuvre - refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 34 of 35</i> provided in Appendix C.
		Lake Albert Road left turn onto Edward Street	Intersection is currently approved as a 19m B- double route (TfNSW Restricted Vehicle Access Map); thus, assumption is that articulated trucks can sufficiently move through this intersection	Vehicles larger than a 19.0m truck and dog are not proposed to undertake the manoeuvre. As such, the assessment undertaken by WSP has been adopted.
		Lake Albert Road right turn onto Edward Street	Intersection is currently approved as a 19m B- double route (TfNSW Restricted Vehicle Access Map); thus, assumption is that articulated trucks can sufficiently move through this intersection	While the approach taken by WSP is recognised for the movement of combinations up to and including a 19.0m truck and dog, the manoeuvre is proposed to be occasionally undertaken by a 19.0m semi-trailer to facilitate the Stage A works. As such, a swept path analysis has been undertaken for a 19.0m semi-trailer, demonstrating the ability for the vehicle to manoeuvre – refer to drawing <i>MR-A2I-WW-SPA-001 Sheet 35 of</i> 35 provided in Appendix C.



Enhancement site	Access route	Movement	Previous assessment undertaken by WSP	Further assessment required
	El4	Edward Street left turn onto Station Place	Drawing 2-0008-210-DCW-03-MD-002-Wagga Station Sheet 1 of 1 prepared by WSP demonstrates the ability for a 12.5m single unit truck to perform the manoeuvre	Vehicles larger than a 19.0m truck and dog are not proposed undertaken the manoeuvre. As such, the assessment undertaken by WSP has been adopted.
		Edward Street right turn onto Station Place	Drawing 2-0008-210-DCW-03-MD-002-Wagga Station Sheet 2 of 4 prepared by WSP demonstrates the ability for a 19.0m truck and dog to perform the manoeuvre	Vehicles larger than a 19.0m truck and dog are not proposed undertaken the manoeuvre. As such, the assessment undertaken by WSP has been adopted.
	El4 / EO4	Station Place loop	Drawing 2-0008-210-DCW-03-MD-001-Wagga Station Sheet 3 of 4 prepared by WSP demonstrates the ability for a 19.0m truck and dog to perform the manoeuvre	Vehicles larger than a 19.0m truck and dog are not proposed undertaken the manoeuvre. As such, the assessment undertaken by WSP has been adopted.
	EO4 Station Place left turn onto Edward Street		Drawing 2-0008-210-DCW-03-MD-002- Edmondson Sheet 1 of 1 prepared by WSP demonstrates the ability for a 12.5m single unit truck to perform the manoeuvre	Vehicles larger than a 19.0m truck and dog are not proposed undertaken the manoeuvre. As such, the assessment undertaken by WSP has been adopted.
		Station Place right turn onto Edward Street	Drawing 2-0008-210-DCW-03-MD-001-Wagga Station Sheet 1 of 4 prepared by WSP demonstrates the ability for a 19.0m truck and dog to perform the right turn manoeuvre onto Edward Street from Station Place	Vehicles larger than a 19.0m truck and dog are not proposed undertaken the manoeuvre. As such, the assessment undertaken by WSP has been adopted.
Edmondson Street Bridge Closure	ECN1	Mitchelmore Street left turn onto Urana Street	-	A swept path analysis has been undertaken for a 19.0m semi-trailer demonstrating the ability for the vehicle to perform the manoeuvre – refer to drawing MR-A2I-WW-SPA-001 <i>Sheet 1 of 5</i> provided in Appendix C



Enhancement site	Access route	Movement	Previous assessment undertaken by WSP	Further assessment required
		Urana Street right turn onto Bourke Street	-	A swept path analysis has been undertaken for a 19.0m semi-trailer demonstrating the ability for the vehicle to perform the manoeuvre - refer to drawing MR-A2I-WW-SPA-001 <i>Sheet 2 of 5</i> provided in Appendix C
		Docker Street right turn onto Edward Street	-	A swept path analysis has been undertaken for a 19.0m semi-trailer demonstrating the ability for the vehicle to perform the manoeuvre - refer to drawing MR-A2I-WW-SPA-001 <i>Sheet 3 of 5</i> provided in Appendix C
	ECS1	Edward Street right turn onto Docker Street	-	A swept path analysis has been undertaken for a 19.0m semi-trailer demonstrating the ability for the vehicle to perform the manoeuvre - refer to drawing MR-A2I-WW-SPA-001 <i>Sheet 4 of 5</i> provided in Appendix C
		Edward Street left turn onto Docker Street	-	A swept path analysis has been undertaken for a 19.0m semi-trailer demonstrating the ability for the vehicle to perform the manoeuvre - refer to drawing MR-A2I-WW-SPA-001 <i>Sheet 5 of 5</i> provided in Appendix C
		Bourke Street left turn onto Urana Street	-	A swept path analysis has been undertaken for a 19.0m semi-trailer demonstrating the ability for the vehicle to perform the manoeuvre - refer to drawing MR-A2I-WW-SPA-001 <i>Sheet 2 of 5</i> provided in Appendix C
		Urana Street right turn onto Mitchelmore Street	-	A swept path analysis has been undertaken for a 19.0m semi-trailer demonstrating the ability for the vehicle to perform the manoeuvre - refer to



Access route	Movement	Previous assessment undertaken by WSP	Further assessment required	
			drawing MR-A2I-WW-SPA-001 <i>Sheet 1 of 5</i> provided in Appendix C	

A review of each of movement at location where a further assessment (i.e., swept path analysis) has been undertaken is provided in Table 161 below.

TABLE 161:SWEPT PATH ANALYSIS REVIEW

Movement	Vehicle type	Does vehicle remain lane correct	Does the vehicle (body / wheel path) overrun kerbs	Does the vehicle clearance remain clear of pedestrian standing areas / footpaths	Does the vehicle clearance remain clear of other obstructions (i.e. road furniture)
Edward Street left turn onto Pearson Street	19.0m semi-trailer	No – refer to Table 162	No	Yes	Yes
Edward Street right turn onto Pearson Street	19.0m semi-trailer	No – refer to Table 162	No	Yes	Yes
Pearson Street straight onto Dobney Avenue	19.0m semi-trailer	No – refer to Table 162	No	Yes	Yes
Dobney Avenue left turn onto Pearson Street	19.0m semi-trailer	No – refer to Table 162	No	Yes	Yes
Pearson Street right turn onto Dobney Avenue	19.0m semi-trailer	No – refer to Table 162	No	Yes	Yes
Dobney Avenue straight onto Pearson Street	19.0m semi-trailer	No – refer to Table 162	No	Yes	Yes
Pearson Street left turn onto Edward Street	19.0m semi-trailer	No – refer to Table 162	No	Yes	Yes



Movement	Vehicle type	Does vehicle remain lane correct	Does the vehicle (body / wheel path) overrun kerbs	Does the vehicle clearance remain clear of pedestrian standing areas / footpaths	Does the vehicle clearance remain clear of other obstructions (i.e. road furniture)
Pearson Street right turn onto Edward Street	19.0m semi-trailer	No – refer to Table 162	No	Yes	Yes
Pearson Street left turn onto Urana Street	12.5m single unit truck	Yes	No	Yes	Yes
	19.0m truck and dog	Yes	No	Yes	Yes
Urana Street right turn onto Pearson Street	12.5m single unit truck	Yes	No	Yes	Yes
	19.0m truck and dog	Yes	No	Yes	Yes
Edward Street right turn onto Murray Street	12.5m single unit truck	Yes	No	Yes	Yes
	19.0m truck and dog	Yes	No	Yes	Yes
Edward Street left turn onto Murray Street	12.5m single unit truck	Yes	No	Yes	Yes
	19.0m truck and dog	Yes	No	Yes	Yes
Murray Street left turn onto Brookong Avenue	12.5m single unit truck	Yes	No	Yes	Yes
	19.0m truck and dog	Yes	No	Yes	Yes
Brookong Avenue right turn onto Murray Street	12.5m single unit truck	Yes	No	Yes	Yes
onto Manay Oroci	19.0m truck and dog	Yes	No	Yes	Yes
Murray Street right turn onto Edward Street	12.5m single unit truck	Yes	No	Yes	Yes
	19.0m truck and dog	Yes	No	Yes	Yes



Movement	Vehicle type	Does vehicle remain lane correct	Does the vehicle (body / wheel path) overrun kerbs	Does the vehicle clearance remain clear of pedestrian standing areas / footpaths	Does the vehicle clearance remain clear of other obstructions (i.e. road furniture)
Murray Street left turn onto Edward Street	12.5m single unit truck	Yes	No	Yes	Yes
	19.0m truck and dog	Yes	No	Yes	Yes
Fox Street onto Donnelly Avenue	12.5m single unit truck	Yes	No	Yes	Yes
Donnelly Avenue onto Little Best Street	12.5m single unit truck	Yes	No	Yes	Yes
Best Street right turn onto Edward Street	12.5m single unit truck	Yes	No	Yes	Yes
	19.0m semi-trailer	Yes	No	Yes	Yes
Best Street left turn onto Edward Street	8.8m service vehicle	Yes	No	Yes	Yes
Edward Street right turn onto Edmondson Street	19.0m semi-trailer	Yes	No	Yes	Yes
Edward Street left turn onto Edmondson Street	12.5m single unit truck	Yes	No	Yes	Yes
Edmondson Street left turn onto Erin Street	19.0m semi-trailer	No – refer to Table 162	No	Yes	Yes
Erin Street left turn onto MacLeay Street	19.0m semi-trailer	Yes	No	Yes	Yes



Movement	Vehicle type	Does vehicle remain lane correct	Does the vehicle (body / wheel path) overrun kerbs	Does the vehicle clearance remain clear of pedestrian standing areas / footpaths	Does the vehicle clearance remain clear of other obstructions (i.e. road furniture)
MacLeay Street right turn onto Erin Street	19.0m semi-trailer	Yes	No	Yes	Yes
Erin Street right turn onto Edmondson Street	19.0m semi-trailer	Yes	No	Yes	Yes
Edward Street right turn onto Lake Albert Road	19.0m semi-trailer	Yes	No	Yes	Yes
Lake Albert Road right turn onto Railway Street	19.0m semi-trailer	Yes	No	Yes	Yes
Railway Street left turn onto Lake Albert Road	19.0m semi-trailer	Yes	No	Yes	Yes
Lake Albert Road right turn onto Edward Street	19.0m semi-trailer	Yes	No	Yes	Yes
Mitchelmore Street left turn onto Urana Street	19.0m semi-trailer	Yes	Yes – refer to Table 162	Yes	Yes
Urana Street right turn onto Bourke Street	19.0m semi-trailer	Yes	No	Yes	Yes
Docker Street right turn onto Edward Street	19.0m semi-trailer	Yes	No	Yes	Yes
Edward Street right turn onto Docker Street	19.0m semi-trailer	Yes	No	Yes	Yes



Movement	Vehicle type	Does vehicle remain lane correct	Does the vehicle (body / wheel path) overrun kerbs	Does the vehicle clearance remain clear of pedestrian standing areas / footpaths	Does the vehicle clearance remain clear of other obstructions (i.e. road furniture)
Edward Street left turn onto Docker Street	19.0m semi-trailer	No – refer to Table 162	No	Yes	Yes
Bourke Street left turn onto Urana Street	19.0m semi-trailer	No – refer to Table 162	No	Yes	Yes
Urana Street right turn onto Mitchelmore Street	19.0m semi-trailer	Yes	Yes – refer to Table 162	Yes	Yes

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The assessment detailed in Table 161, indicated that for several movements along the proposed construction vehicle access routes, a vehicle would either required the use of multiple lanes to perform the required manoeuvre or the vehicle would overrun kerbs. It should be noted that the assessment undertaken, all movements remained clear of obstructions (i.e., road furniture and signal infrastructure), and pedestrian standing areas and footpaths.

To ensure that the proposed manoeuvres can be undertaken safely, a further review has been undertaken and is detailed in Table 162 below.

Movement	Swept path review	Comment / mitigation
Edward Street left turn onto Pearson Street	The swept path analysis indicates that a 19.0m semi- trailer performing a left turn manoeuvre onto Pearson Street at the Edward Street / Pearson Street roundabout is required to use both lanes.	Under the Australian Road Rules, a heavy or long vehicle displaying a "Do Not Overtake Turning Vehicle" sign is allowed to use either or both lanes, if, necessary, to turn left or right safely.
Edward Street right turn onto Pearson Street	The swept path analysis indicates that a 19.0m semi- trailer performing a right turn manoeuvre onto Pearson Street at the Edward Street / Pearson Street roundabout is required to use both lanes.	Under the Australian Road Rules, a heavy or long vehicle displaying a "Do Not Overtake Turning Vehicle" sign is allowed to use either or both lanes, if, necessary, to turn left or right safely.
Pearson Street straight onto Dobney Avenue	The swept path analysis indicates that a 19.0m semi- trailer continuing straight onto Dobney Avenue at the Pearson Street / Dobney Avenue roundabout is required to use both lanes.	Under the Australian Road Rules, a heavy or long vehicle displaying a "Do Not Overtake Turning Vehicle" sign is allowed to use either or both lanes, if, necessary, to turn left or right safely.
Dobney Avenue left turn onto Pearson Street	The swept path analysis indicates that a 19.0m semi- trailer performing a left turn manoeuvre onto Pearson Street at the Dobney Avenue / Pearson Street roundabout is required to use both lanes.	Under the Australian Road Rules, a heavy or long vehicle displaying a "Do Not Overtake Turning Vehicle" sign is allowed to use either or both lanes, if, necessary, to turn left or right safely.
Pearson Street right turn onto Dobney Avenue	The swept path analysis indicates that a 19.0m semi- trailer performing a right turn manoeuvre onto Pearson Street at the Dobney Avenue / Pearson Street roundabout is required to use both lanes.	Under the Australian Road Rules, a heavy or long vehicle displaying a "Do Not Overtake Turning Vehicle" sign is allowed to use either or both lanes, if, necessary, to turn left or right safely.
Dobney Avenue straight onto Pearson Street	The swept path analysis indicates that a 19.0m semi- trailer continuing straight onto Pearson Street at the Pearson Street / Dobney Avenue roundabout is required to use both lanes.	Under the Australian Road Rules, a heavy or long vehicle displaying a "Do Not Overtake Turning Vehicle" sign is allowed to use either or both lanes, if, necessary, to turn left or right safely.

TABLE 162: TURNING MOVEMENTS REVIEW



Movement	Swept path review	Comment / mitigation					
Pearson Street left turn onto Edward Street	The swept path analysis indicates that a 19.0m semi- trailer performing a left turn manoeuvre onto Edward Street at the Edward Street / Pearson Street roundabout is required to use both lanes.	Under the Australian Road Rules, a heavy or long vehicle displaying a "Do Not Overtake Turning Vehicle" sign is allowed to use either or both lanes, if, necessary, to turn left or right safely.					
Pearson Street right turn onto Edward Street	The swept path analysis indicates that a 19.0m semi- trailer performing a right turn manoeuvre onto Edward Street at the Edward Street / Pearson Street roundabout is required to use both lanes.	Under the Australian Road Rules, a heavy or long vehicle displaying a "Do Not Overtake Turning Vehicle" sign is allowed to use either or both lanes, if, necessary, to turn left or right safely.					
Mitchelmore Street left turn onto Urana Street	The swept path analysis indicates that a 19.0m semi- trailer overruns the apron / kerb in the centre of the Mitchelmore Street / Urana Street	This manoeuvre has been analysed as part of the short-term closure of Edmondson Street and detour of traffic via Mitchelmore Street, Urana Street and Bourke Street / Docker Street (refer to Section 3.3.14).					
	roundabout	At the Mitchelmore Street / Urana Street roundabout, a mountable apron / kerb is provided surrounding the centre island. Along the apron, there is evidence of vehicle mounting the apron / kerb to perform the necessary manoeuvres at the roundabout – refer to Figure 68. Given the apron is clear of pedestrian facilities and obstructions, use of the apron to perform the necessary manoeuvres is not considered to result in any adverse conditions.					
Edward Street left turn onto Docker Street	The swept path analysis indicates that a 19.0m semi- trailer performing a left turn manoeuvre onto Docker Street is required to use both the kerbside and through lane.	This manoeuvre has been analysed as part of the short-term closure of Edmondson Street and detour of traffic via Mitchelmore Street, Urana Street and Bourke Street / Docker Street (refer to Section 3.3.14). Under the Australian Road Rules, a heavy or long vehicle displaying a "Do Not Overtake Turning Vehicle" sign is allowed to use either or both lanes, if, necessary, to turn left or right safely.					
Bourke Street left turn onto Urana Street	The swept path analysis indicates that a 19.0m semi- trailer performing a left turn manoeuvre onto Urana Street at the Bourke Street / Urana Street roundabout is required to use both lanes.	This manoeuvre has been analysed as part of the short-term closure of Edmondson Street and detour o traffic via Mitchelmore Street, Urana Street and Bourk Street / Docker Street (refer to Section 3.3.14 Under the Australian Road Rules, a heavy or long vehicle displaying a "Do Not Overtake Turning Vehicle					
Urana Street right turn onto Mitchelmore Street	The swept path analysis indicates that a 19.0m semi- trailer overruns the apron / kerb in the centre of the Mitchelmore	sign is allowed to use either or both lanes, if, necessary, to turn left or right safely. This manoeuvre has been analysed as part of the short-term closure of Edmondson Street and detour of traffic via Mitchelmore Street, Urana Street and Bourke Street / Docker Street (refer to Section 3.3.14).					
	Street / Urana Street roundabout	At the Mitchelmore Street / Urana Street roundabout, a mountable apron / kerb is provided surrounding the centre island. Along the apron, there is evidence of vehicle mounting the apron / kerb to perform the					

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Movement	Swept path review	Comment / mitigation
		necessary manoeuvres at the roundabout – refer to Figure 68. Given the apron is clear of pedestrian facilities and obstructions, use of the apron to perform the necessary manoeuvres is not considered to result in any adverse conditions.



FIGURE 68: MITCHELMORE STREET / URANA STREET – VEHICLE TRACKING

4.4 Risk Assessment

A risk assessment has been undertaken to identify, evaluate, and to mitigate potential hazards associated with the introduction of construction heavy vehicle traffic linked to the Stage A works. Through this assessment, key hazards such as adverse conditions resulting from increased vehicle demands (i.e., congestion), road user safety and pedestrian safety have been analysed for both current (i.e. current operating conditions) and future (current with construction traffic) scenarios.

Identified risks have been considered using the risk scoring matrix shown in Table 163, with the risk assessment detailed in Table 164.

From the risk assessment, where a risk has been observed to have a "High" risk level, or where an increase in risk level has been observed, further consideration of mitigation measures has been undertaken to reduce the likelihood or consequence of the risk.



TABLE 163:RISK ASSESSMENT SCORING MATRIX

		Potential consequence	Potential consequence									
		Property damage (1)	Minor injury (2)	Medical treatment (3)	Hospitalisation (4)	Fatality (5)						
Potential Likelihood	Almost certain (5) (likely to occur more than once a year)	М	М	Н	Н	Н						
	Likely (4) (likely to occur approximately once a year)	м	м	Μ	н	н						
	Moderate (3) (likely to occur 5 once every five years)	L	м	M	М	н						
	Unlikely (2) (likely to occur approximately once every 5 – 10 years)	L	L	м	М	Μ						
	Rare (1) (likely to occur with less frequency than once every 10 years)	L	L	L	М	M						



TABLE 164:RISK ASSESSMENT

Project risks					Future level of risk (current traffic plus construction vehicles)				Mitigation			Comment
		Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
U	Urana Street											
1	Carriageway width is not suitable to accommodate the movements of vehicles, resulting in vehicles travelling within the opposing carriageway	1	4	м	1	4	м	-	-	-	-	Urana Street generally features 3.6m wide lanes with un-sealed shoulders.
2	Road performance is impacted by the addition of construction vehicles, resulting in adverse conditions: • Urana Street	1	3	L	1	3	L	-	-	-	-	Section 3.1.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during the Stage A works
3	Intersection performance is impacted by the addition of construction vehicles, resulting in adverse	1	3	L	1	3	L	-	-	-	-	Section 3.1.9 shows that the road performance will not be significantly



	Project risks						Future level of risk (current traffic plus construction vehicles)				Mitigation		
			Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
		conditions at intersections: Pearson Street / Urana Street Pearson Street / Dobney Avenue (south)											impacted by the additional of construction vehicles during the Stage A works
	4	Vehicles are unable to safely perform turning manoeuvres at intersections, resulting in conflicts with other road users / damage to infrastructure at the intersection: • Pearson Street / Urana Street	1	3	L	1	3	L	-	-	-	-	A swept path analysis has been undertaken to demonstrate the ability for construction vehicles to safely perform the necessary manoeuvres.
	5	Kerbside parking narrows the road, restricts traffic flow and inhibits the ability to manoeuvre safely into and out of side streets.	1	4	М	1	4	М	-	-	-	-	-



Ducient viele						Future level of risk (current traffic plus construction vehicles)				Mitigation			
	Project risks		Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	6 Cyclists impa wind turbuler passing vehic	nce of	2	4	м	2	4	м	-	-	-	-	-
	7 Conflict betw cyclists and where there i enough spac safely overta	vehicles sn't e to	1	4	м	1	4	м	-	-	-	-	-
	Murray Street			-					<u> </u>		-		
	 Carriageway not suitable t accommodat movements of vehicles, rest vehicles trave within the op carriageway 	o e the of ulting in elling	1	4	м	1	4	м	-	-	-	-	Murray Street generally features ~18.5m wide carriageway.
	 Road perform impacted by addition of construction resulting in a conditions: Murration 	the vehicles,	1	3	L	1	3	L	-	-	-	-	Section 3.2.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during



Project risks						Future level of risk (current traffic plus construction vehicles)				Mitigation		
		Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
												the Stage A works
	Intersection performance is impacted by the addition of construction vehicles, resulting in adverse conditions at intersections: • Edward Street / Murray Street	1	3	L	1	3	L	-	-	-	-	Section 3.2.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during the Stage A works
	Vehicles are unable to safely perform turning manoeuvres at intersections, resulting in conflicts with other road users / damage to infrastructure at the intersection: • Edward Street / Murray Street	1	3	L	1	3	L	-	-	-	-	A swept path analysis has been undertaken to demonstrate the ability for construction vehicles to safely perform the necessary manoeuvres.
	Kerbside parking narrows the road, restricts traffic flow	1	4	м	1	4	М	-	-	-	-	-



Due	is st visles	Current lev traffic)	el of risk (currer	it	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			Commont
Pro	ject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	and inhibits the ability to manoeuvre safely into and out of side streets.											
	Cyclists impacted by wind turbulence of passing vehicles.	2	4	М	2	4	м	-	-	-	-	-
	Conflict between cyclists and vehicles where there isn't enough space to safely overtake	1	4	м	1	4	м	-	-	-	-	-
Bro	ookong Avenue						<u></u>			<u> </u>	<u> </u>	
	Carriageway width is not suitable to accommodate the movements of vehicles, resulting in vehicles travelling within the opposing carriageway	1	4	м	1	4	м	-	-	-	-	Murray Street generally features ~3.9m wide lanes
	Road performance is impacted by the addition of construction vehicles,	1	3	L	1	3	L	-	-	-	-	Section 3.2.9 shows that the road performance will not be



Dro	ject risks	Current lev traffic)	el of risk (curren	nt	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			Comment
		Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	resulting in adverse conditions: • Brookong Avenue											significantly impacted by the additional of construction vehicles during the Stage A works
	Intersection performance is impacted by the addition of construction vehicles, resulting in adverse conditions at intersections: • Murray Street / Brookong Avenue	1	3	L	1	3	L	-	-	-	-	Section 3.2.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during the Stage A works
	Vehicles are unable to safely perform turning manoeuvres at intersections, resulting in conflicts with other road users / damage to infrastructure at the intersection:	1	3	L	1	3	L	-	-	-	-	A swept path analysis has been undertaken to demonstrate the ability for construction vehicles to safely perform



Dec	sie at vie ke	Current lev traffic)	el of risk (currer	nt	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			Comment
Pro	oject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	 Murray Street / Brookong Avenue 											the necessary manoeuvres.
	Kerbside parking narrows the road, restricts traffic flow and inhibits the ability to manoeuvre safely into and out of side streets.	1	4	м	1	4	м	-	-	-	-	-
	Cyclists impacted by wind turbulence of passing vehicles.	2	4	м	2	4	М	-	-	-	-	-
	Conflict between cyclists and vehicles where there isn't enough space to safely overtake	1	4	м	1	4	м	-	-	-	-	-
Fox	x Street								1			
	Carriageway width is not suitable to accommodate the movements of vehicles, resulting in vehicles travelling	1	4	М	1	4	М	-	-	-	-	Fox Street generally features a 17.9m wide carriageway.



Dura	is at vialue	Current lev traffic)	el of risk (curren	it	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			0 - m m - m t
Pro	ject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	within the opposing carriageway											
	Road performance is impacted by the addition of construction vehicles, resulting in adverse conditions: • Fox Street	1	3	L	1	3	L	-	-	-0	-	Section 3.2.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during the Stage A works
	Intersection performance is impacted by the addition of construction vehicles, resulting in adverse conditions at intersections: • Edward Street / Fox Street	1	3	L	1	3	L		-	-	-	Section 3.2.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during the Stage A works
	Vehicles are unable to safely perform turning manoeuvres at	1	3	L	1	3	L	-	-	-	-	Table 4.3 of Appendix C, Addendum



Dre	iest vieke	Current lev traffic)	el of risk (curren	t	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			Comment
Pro	oject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	intersections, resulting in conflicts with other road users / damage to infrastructure at the intersection: • Edward Street / Fox Street											Assessment to Technical Paper 1: Traffic and Transport notes that the intersection is currently approved as a 19m d-double route (TfNSW Restricted Vehicle Access Map), thus it is assumed that articulated trucks can sufficiently move through these intersections.
	Vehicles entering and exiting driveways are unrecognised by approaching drivers, resulting in rear-end collisions.	2	3	м	2	3	м	-	-		-	Appropriate stopping sight distance appears to be achieved along Fox Street.
	Vehicles entering and exiting kerbside parking spaces resulting in rear-end	2	3	м	2	3	м	-	-	-	-	-



D	to of status	Current lev traffic)	el of risk (currer	it	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			0
Pro	oject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	and side-swipe collisions											
	Kerbside parking narrows the road, restricts traffic flow and inhibits the ability to manoeuvre safely into and out of side streets.	1	4	м	1	4	M	-	-	-	-	Unmarked parking is provided along both sides of Fox Street, however available road width ~13m is able to be maintained.
	Cyclists impacted by wind turbulence of passing vehicles.	2	4	м	2	4	м	-	-	-	-	-
	Conflict between cyclists and vehicles where there isn't enough space to safely overtake	1	4	м	1	4	м	-	-	-	-	-
Do	nnelly Avenue	1										
	Carriageway width is not suitable to accommodate the movements of vehicles, resulting in	1	4	м	1	4	м	-	-	-	-	-



Dro	is at vialta	Current lev traffic)	el of risk (curren	it	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			Commont
Pro	ject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	vehicles travelling within the opposing carriageway											
	Road performance is impacted by the addition of construction vehicles, resulting in adverse conditions: • Donnelly Avenue	1	3	L	1	3	L	-	-	-	-	Section 3.3.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during the Stage A works
	Intersection performance is impacted by the addition of construction vehicles, resulting in adverse conditions at intersections: • Fox Street / Donnelly Avenue	1	3	L	1	3	L	-	-		-	Section 3.3.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during the Stage A works
	Vehicles are unable to safely perform turning	1	3	L	1	3	L	-	-	-	-	A swept path analysis has



Due	is at visits	Current leve traffic)	el of risk (curren	t	Future leve constructio	l of risk (current on vehicles)	traffic	plus	Mitigation			Comment
Pro	ject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	manoeuvres at intersections, resulting in conflicts with other road users / damage to infrastructure at the intersection: Fox Street / Donnelly Avenue Donnelly Avenue / Little Best Street											been undertaken to demonstrate the ability for construction vehicles to safely perform the necessary manoeuvres.
	Vehicles entering and exiting driveways are unrecognised by approaching drivers, resulting in rear-end collisions.	2	3	М	2	3	м	-	-	-	-	Appropriate stopping sight distance appears to be achieved along Donnelly Avenue.
	Vehicles entering and exiting kerbside parking spaces resulting in rear-end and side-swipe collisions	2	3	М	2	3	м	-	-	-	-	-
	Kerbside parking narrows the road, restricts traffic flow	1	3	L	3	3	М	On-street parking is proposed to be	1	3	L	-



		Current lev traffic)	el of risk (currer	nt	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			• • •
Pro	oject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	and inhibits the ability to manoeuvre safely into and out of side streets.							removed to accommodate the swept path of a 12.5m single unit truck.				
	Cyclists impacted by wind turbulence of passing vehicles.	2	4	м	2	4	М	-	-	-	-	-
	Conflict between cyclists and vehicles where there isn't enough space to safely overtake	1	4	м	1	4	м	-	-	-	-	-
Litt	tle Best Street	1	L		1					I	1	
	Carriageway width is not suitable to accommodate the movements of vehicles, resulting in vehicles travelling within the opposing carriageway	1	4	м	1	4	м	-	-	-	-	-
	Road performance is impacted by the addition of	1	3	L	1	3	L	-	-	-	-	Section 3.3.9 shows that the road



Dro	ject risks	Current lev traffic)	el of risk (curren	t	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			Comment
Pic		Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	construction vehicles, resulting in adverse conditions: • Little Best Street											performance will not be significantly impacted by the additional of construction vehicles during the Stage A works
	Intersection performance is impacted by the addition of construction vehicles, resulting in adverse conditions at intersections: • Donnelly Avenue / Little Best Street	1	3	L	1	3	L	-	-	-	-	Section 3.3.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during the Stage A works
	Vehicles are unable to safely perform turning manoeuvres at intersections, resulting in conflicts with other road users / damage to infrastructure at the intersection:	1	3	L	1	2	L	-	-	-	-	A swept path analysis has been undertaken to demonstrate the ability for construction vehicles to safely perform



Dro	oject risks	Current lev traffic)	el of risk (curren	it	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			Comment
FIX	Jeot 113K3	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	Donnelly Avenue / Little Best Street											the necessary manoeuvres.
	Vehicles entering and exiting driveways are unrecognised by approaching drivers, resulting in rear-end collisions.	2	3	м	2	3	м	-	-	-	-	Appropriate stopping sight distance appears to be achieved along Little Best Street.
	Vehicles entering and exiting kerbside parking spaces resulting in rear-end and side-swipe collisions	2	3	м	2	3	м	-	-	-	-	-
	Kerbside parking narrows the road, restricts traffic flow and inhibits the ability to manoeuvre safely into and out of side streets.	1	3	L	3	3	М	On-street parking is proposed to be removed to accommodate the swept path of a 12.5m single unit truck.	1	3	L	-



Due	is at visits	Current lev traffic)	el of risk (curren	it	Future leve constructio	l of risk (current n vehicles)	traffic	plus	Mitigation			Comment
Pro	ject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	Cyclists impacted by wind turbulence of passing vehicles.	2	4	М	2	4	м	-	-	-	-	-
	Conflict between cyclists and vehicles where there isn't enough space to safely overtake	1	4	м	1	4	м	-	-	-	-	-
Edr	nondson Street	1		<u> </u>			<u></u>	<u> </u>		<u> </u>	<u> </u>	
	Carriageway width is not suitable to accommodate the movements of vehicles, resulting in vehicles travelling within the opposing carriageway	1	4	м	1	4	м	-	-	-	-	Edmondson Street generally features 3.1m wide lanes with sealed shoulders.
	Road performance is impacted by the addition of construction vehicles, resulting in adverse conditions: • Edmondson Street	1	3	L	1	3	L	-	-	-	-	Section 3.3.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during



Dro		Current lev traffic)	el of risk (curren	it	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			0 a mana mé
Pro	ject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
												the Stage A works
	Intersection performance is impacted by the addition of construction vehicles, resulting in adverse conditions at intersections: • Edmondson Street / Erin Street	1	3	L	1	3	L	-	-	-	-	Section 3.3.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during the Stage A works
	Vehicles are unable to safely perform turning manoeuvres at intersections, resulting in conflicts with other road users / damage to infrastructure at the intersection: • Edward Street / Edmondson Street	1	3	L	1	3	L	-	-	-	-	A swept path analysis has been undertaken to demonstrate the ability for construction vehicles to safely perform the necessary manoeuvres.
	Vehicles entering and exiting driveways are unrecognised by	2	3	м	2	3	м	-	-		-	Appropriate stopping sight distance



Dre	ject risks	Current lev traffic)	el of risk (curren	it	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			Comment
FIC	ject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	approaching drivers, resulting in rear-end collisions.											appears to be achieved along Edmondson Street.
	Vehicles entering and exiting kerbside parking spaces resulting in rear-end and side-swipe collisions	2	3	м	2	3	м	-	-	-	-	-
	Kerbside parking narrows the road, restricts traffic flow and inhibits the ability to manoeuvre safely into and out of side streets.	1	4	м	1	4	м	-	-	-	-	-
	Buses entering and exiting kerbside parking spaces resulting in rear-end and side-swipe collisions: • Kildare Catholic College, Edmondson Street	2	3	М	2	3	M	-	-	-	-	Appropriate stopping sight distance appears to be achieved at bus stops for approaching road users.



Dura	is st visles	Current leve traffic)	el of risk (curren	it	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			Comment
Pro	vject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	• Edmondson Street opposite Kildare Catholic College.											
	Cyclists impacted by wind turbulence of passing vehicles.	2	4	м	2	4	м	-	-	-	-	-
	Conflict between cyclists and vehicles where there isn't enough space to safely overtake	1	4	м	1	4	м	-	-	-	-	-
Erii	n Street							L	I	I	1	L
	Carriageway width is not suitable to accommodate the movements of vehicles, resulting in vehicles travelling within the opposing carriageway	1	4	м	1	4	м	-	-	-	-	Erin Street generally features a 12m wide carriageway.
	Road performance is impacted by the addition of	1	3	L	1	3	L	-	-	-	-	Section 3.3.9 shows that the road



Dro	ject risks	Current leve traffic)	el of risk (curren	t	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			Comment
FIG		Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	construction vehicles, resulting in adverse conditions: • Erin Street											performance will not be significantly impacted by the additional of construction vehicles during the Stage A works
	Intersection performance is impacted by the addition of construction vehicles, resulting in adverse conditions at intersections: • Edmondson Street / Erin Street • Erin Street / MacLeay Street	1	3	L	1	3	L	-	-	-	-	Section 3.3.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during the Stage A works
	Vehicles are unable to safely perform turning manoeuvres at intersections, resulting in conflicts with other road users / damage	1	3	L	1	3	L	-	-	-	-	A swept path analysis has been undertaken to demonstrate the ability for



Dro	oject risks	Current lev traffic)	el of risk (curren	nt	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			Comment
FIX	Jeer Hana	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	to infrastructure at the intersection: • Edmondson Street / Erin Street											construction vehicles to safely perform the necessary manoeuvres.
	Vehicles entering and exiting driveways are unrecognised by approaching drivers, resulting in rear-end collisions.	2	3	м	2	3	м	-	-	-	-	Appropriate stopping sight distance appears to be achieved along Erin Street.
	Vehicles entering and exiting kerbside parking spaces resulting in rear-end and side-swipe collisions	2	3	М	2	3	м	-	-	-	-	-
	Kerbside parking narrows the road, restricts traffic flow and inhibits the ability to manoeuvre safely into and out of side streets.	1	4	М	1	4	м	-	-	-	-	-



Der	is at vialue	Current lev traffic)	el of risk (curren	it	Future leve construction	l of risk (current n vehicles)	traffic	plus	Mitigation			Comment
Pro	ject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	Cyclists impacted by wind turbulence of passing vehicles.	2	4	м	2	4	м	-	-	-	-	-
	Conflict between cyclists and vehicles where there isn't enough space to safely overtake	1	4	м	1	4	м	-	-	-	-	-
Ма	cLeay Street	<u>,</u>						<u> </u>	Į	<u> </u>	Į	
	Carriageway width is not suitable to accommodate the movements of vehicles, resulting in vehicles travelling within the opposing carriageway	1	4	м	1	4	м	-	-	-	-	MacLeay Street generally features a 21m wide carriageway.
	Road performance is impacted by the addition of construction vehicles, resulting in adverse conditions: • MacLeay Street	1	3	L	1	3	L	-	-	-	-	Section 3.3.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during



D	sie of violes	Current lev traffic)	el of risk (curren	it	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			Commont
Pro	oject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
												the Stage A works
	Intersection performance is impacted by the addition of construction vehicles, resulting in adverse conditions at intersections: • Erin Street / MacLeay Street • MacLeay Street / Railway Street	1	3	L	1	3	L	-	-	-	-	Section 3.3.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during the Stage A works
	Vehicles are unable to safely perform turning manoeuvres at intersections, resulting in conflicts with other road users / damage to infrastructure at the intersection: • Erin Street / MacLeay Street	1	3	L	1	3	L	-	-	-	-	A swept path analysis has been undertaken to demonstrate the ability for construction vehicles to safely perform the necessary manoeuvres.



Dec	oject risks	Current lev traffic)	el of risk (curren	it	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			Comment
PIC	Ject fisks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	Vehicles entering and exiting driveways are unrecognised by approaching drivers, resulting in rear-end collisions.	2	3	м	2	3	м	-	-	-	-	Appropriate stopping sight distance appears to be achieved along MacLeay Street.
	Vehicles entering and exiting kerbside parking spaces resulting in rear-end and side-swipe collisions	2	3	м	2	3	м	-	-	-	-	-
	Kerbside parking narrows the road, restricts traffic flow and inhibits the ability to manoeuvre safely into and out of side streets.	1	4	м	1	4	м	-	-	-	-	-
	Cyclists impacted by wind turbulence of passing vehicles.	2	4	М	2	4	м	-	-	-	-	-
	Conflict between cyclists and vehicles where there isn't	1	4	М	1	4	М	-	-	-	-	-



		Current lev traffic)	el of risk (currer	nt		l of risk (current on vehicles)	traffic	plus	Mitigation			0 1
Pro	oject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	enough space to safely overtake											
Rai	ilway Street									1	1	
	Carriageway width is not suitable to accommodate the movements of vehicles, resulting in vehicles travelling within the opposing carriageway	1	4	м	1	4	м	-	-	-	-	Railway Street generally features a 12m wide carriageway.
	Road performance is impacted by the addition of construction vehicles, resulting in adverse conditions: • Railway Street	1	3	L	1	3	L	-	-	-	-	Section 3.3.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during the Stage A works
	Intersection performance is impacted by the addition of	1	3	L	1	3	L	-	-	-	-	Section 3.3.9 shows that the road performance



Dre	iest vieke	Current lev traffic)	el of risk (curren	t	Future leve construction	l of risk (current on vehicles)	traffic	plus	Mitigation			Comment
Pro	oject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	construction vehicles, resulting in adverse conditions at intersections: • MacLeay Street / Railway Street											will not be significantly impacted by the additional of construction vehicles during the Stage A works
	Vehicles are unable to safely perform turning manoeuvres at intersections, resulting in conflicts with other road users / damage to infrastructure at the intersection: • Lake Albert Road / Railway Street intersection	1	3	L	1	3	L	-	-	-	-	A swept path analysis has been undertaken to demonstrate the ability for construction vehicles to safely perform the necessary manoeuvres.
	Vehicles entering and exiting driveways are unrecognised by approaching drivers, resulting in rear-end collisions.	2	3	М	2	3	М	-	-	-	-	Appropriate stopping sight distance appears to be achieved along Railway Street.



		Current lev traffic)	el of risk (curren	it	Future leve constructio	l of risk (current n vehicles)	traffic	plus	Mitigation			
Pro	vject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	Vehicles entering and exiting kerbside parking spaces resulting in rear-end and side-swipe collisions	2	3	М	2	3	м	-	-	-	-	-
	Kerbside parking narrows the road, restricts traffic flow and inhibits the ability to manoeuvre safely into and out of side streets.	1	4	м	1	4	м	-	-	-	-	-
1	Cyclists impacted by wind turbulence of passing vehicles.	2	4	М	2	4	м	-	-	-	-	-
	Conflict between cyclists and vehicles where there isn't enough space to safely overtake	1	4	м	1	4	м	-	-	-	-	-
Sta	tion Place								1	<u>I</u>	1	
	Carriageway width is not suitable to accommodate the movements of	1	4	м	1	4	м	-	-	-	-	Station Place generally features 3.4m wide lanes



D	-to of status	Current lev traffic)	el of risk (currer	it		l of risk (current on vehicles)	traffic	plus	Mitigation			0
Pro	oject risks	Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	vehicles, resulting in vehicles travelling within the opposing carriageway											
	Road performance is impacted by the addition of construction vehicles, resulting in adverse conditions: • Station Place	1	3	L	1	3	L	-	-	-	-	Section 3.3.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during the Stage A works
	Intersection performance is impacted by the addition of construction vehicles, resulting in adverse conditions at intersections: • Edward Street / Station Place	1	3	L	1	3	L	-	-	-	-	Section 3.3.9 shows that the road performance will not be significantly impacted by the additional of construction vehicles during the Stage A works



Duci	ject risks	Current level of risk (current traffic)			Future level of risk (current traffic plus construction vehicles)				Mitigation			Comment
Proje		Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	
	Vehicles are unable to safely perform turning manoeuvres at intersections, resulting in conflicts with other road users / damage to infrastructure at the intersection: • Edward Street / Station Place	1	3	L	1	3	L	-	-	-	-	A swept path analysis has been undertaken by WSP to demonstrate the ability for construction vehicles to safely perform the necessary manoeuvres.
	Vehicles entering and exiting driveways are unrecognised by approaching drivers, resulting in rear-end collisions.	2	3	М	2	3	М	-	-	-	-	Appropriate stopping sight distance appears to be achieved along Railway Street.
	Vehicles entering and exiting kerbside parking spaces resulting in rear-end and side-swipe collisions	2	3	М	2	3	М	-	-	-	-	-
	Kerbside parking narrows the road, restricts traffic flow and inhibits the ability to manoeuvre safely	1	4	м	1	4	М	-	-	-	-	-



Project risks		Current level of risk (current traffic)			Future level of risk (current traffic plus construction vehicles)				Mitigation			0
		Likelihood	Consequence	Risk level	Likelihood	Consequence	Risk level	Mitigation	Likelihood	Consequence	Risk level	Comment
	into and out of side streets.											
	Cyclists impacted by wind turbulence of passing vehicles.	2	4	м	2	4	М	-	-	-	-	-
	Conflict between cyclists and vehicles where there isn't enough space to safely overtake	1	4	м	1	4	М	-	-	-	-	-



5 OPERATIONAL REQUIREMENTS

5.1 Temporary Road Safety Barriers and End Treatments

The use road safety barriers and end treatments will be in accordance with the approved products nominated within the TfNSW Accepted Road Safety Barrier Systems and Devices guidance.

5.2 Temporary Signage

The type, location and sizes of existing signage to be retained and/or removed and new signage to be installed during the operation of this TGS will be as per the drawings attached at Appendix A. These TGS are indicative documents and obtaining the relevant approval will occur outside the PTMP process.

5.3 Temporary Pavement Markings

There are no alterations to pavement markings required for this work.

5.4 Variable Message Signs

Variable message signs may be provided as part of the project's traffic management on the approach to the project works. Typically, VMS will be installed two (2) weeks prior to any changes to traffic conditions and/or to support short term high impact works.

The VMS shall be located:

- Where there is a kerb, the VMS should be positioned behind it.
- Where practical, located behind a suitable barrier and outside the barrier's deflection zone.
- Located where it does not interfere with pedestrians, cyclists, and other footpath users.
- Located where it does not affect adjoining street gap sight distances.

If no suitable location is available behind the kerb, located in a parking lane ensuring it does not encroach into the traffic lane and is adequately delineated.



6 COMMUNICATION AND COORDINATION

6.1 Traffic Communications

The Traffic Management Team and Stakeholder and Community Relations Team will work closely with each other to ensure there is a seamless approach to managing traffic communications. The PTMP is supported by the Stakeholder and Community Engagement Management Plan, where traffic communications and our approach to managing communications activities associated with traffic changes is described.

The Traffic Manager and Stakeholder and Community Relations Manager will collaborate to assess the impacts on users of the integrated transport network to ensure timely and accurate information is available for public consultations and notifications.

6.2 Traffic Management Construction Liaison Group

The TMCLG will be the forum for discussion of the effectiveness of the PTMP.





APPENDICES





APPENDIX A

List of Expected Traffic Guidance Schemes

List of Expected Traffic Guidance Schemes

TGS #	Title	Comment
MR-A2I-WW-TGS-001	Gate P1 – site access	
MR-A2I-WW-TGS-002	Gate P2 – site access	
MR-A2I-WW-TGS-003	Gate C1 – site access	
MR-A2I-WW-TGS-004	Gate C2 – site access	
MR-A2I-WW-TGS-005	Gate E1 – site access	
MR-A2I-WW-TGS-006	Gate E2 – site access	
MR-A2I-WW-TGS-007	Gate E3 – site access	
MR-A2I-WW-TGS-008	Donnelly Avenue – half road closure	
MR-A2I-WW-TGS-009	Donnelly Avenue – full road closure	
MR-A2I-WW-TGS-010	Railway Street – half road closure / shuttle flow	
MR-A2I-WW-TGS-011	MacLeay Street – shoulder closure	
MR-A2I-WW-TGS-012	Erin Street – shoulder closure	
MR-A2I-WW-TGS-013	Erin Street – half road closure / shuttle flow	
MR-A2I-WW-TGS-014	Edmondson Street – lane closure	
MR-A2I-WW-TGS-015	Edmondson Street – contraflow	
MR-A2I-WW-TGS-016	Edmondson Street – full road closure	
MR-A2I-WW-TGS-017	Edward Street – lane closure	





APPENDIX B

WSP Swept Path Analysis

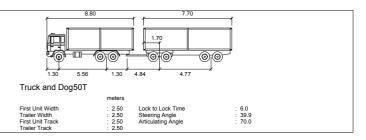


Legend

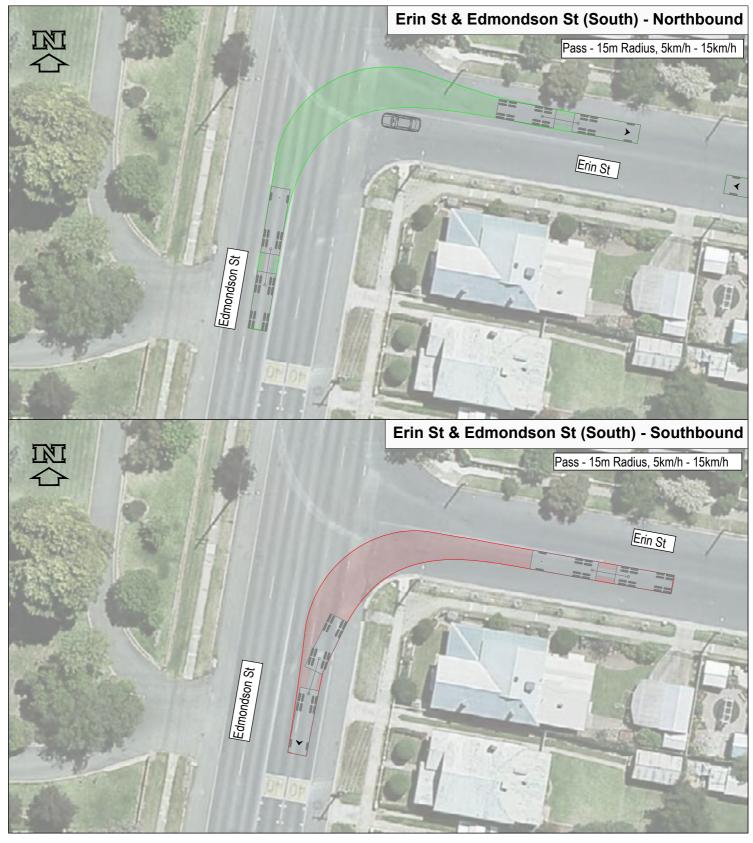


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 19m TRUCK & DOG CHECK VEHICLE - SOUTHBOUND MOVEMENT



Construction Vehicle Route Swept Path Analysis

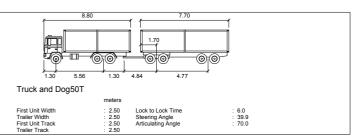


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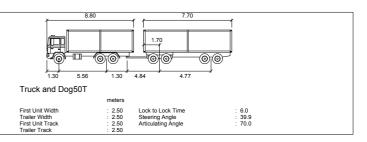




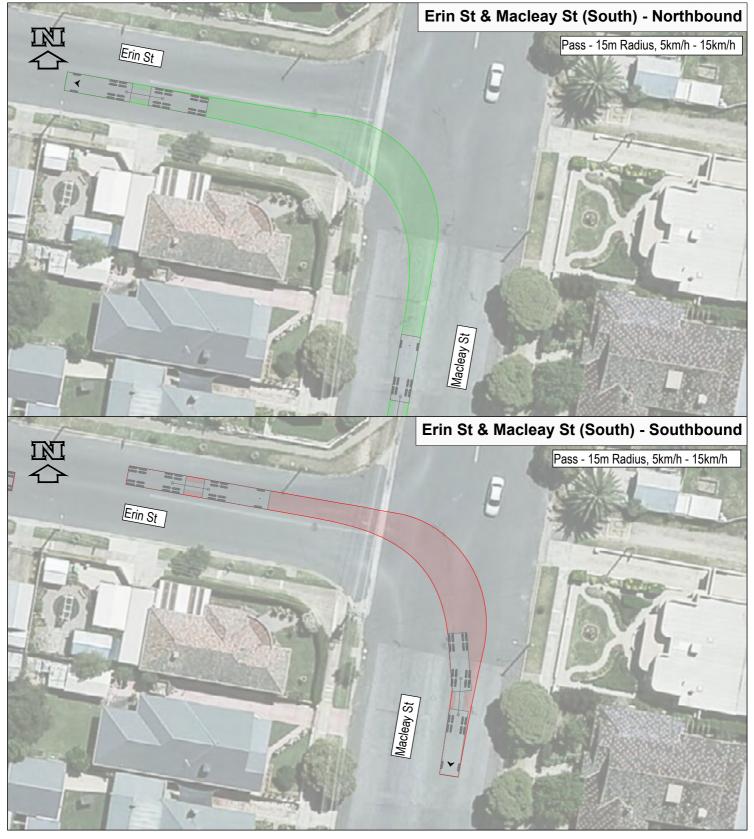
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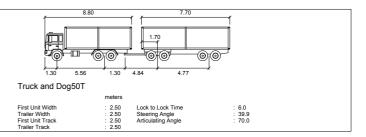
Construction Vehicle Route Swept Path Analysis

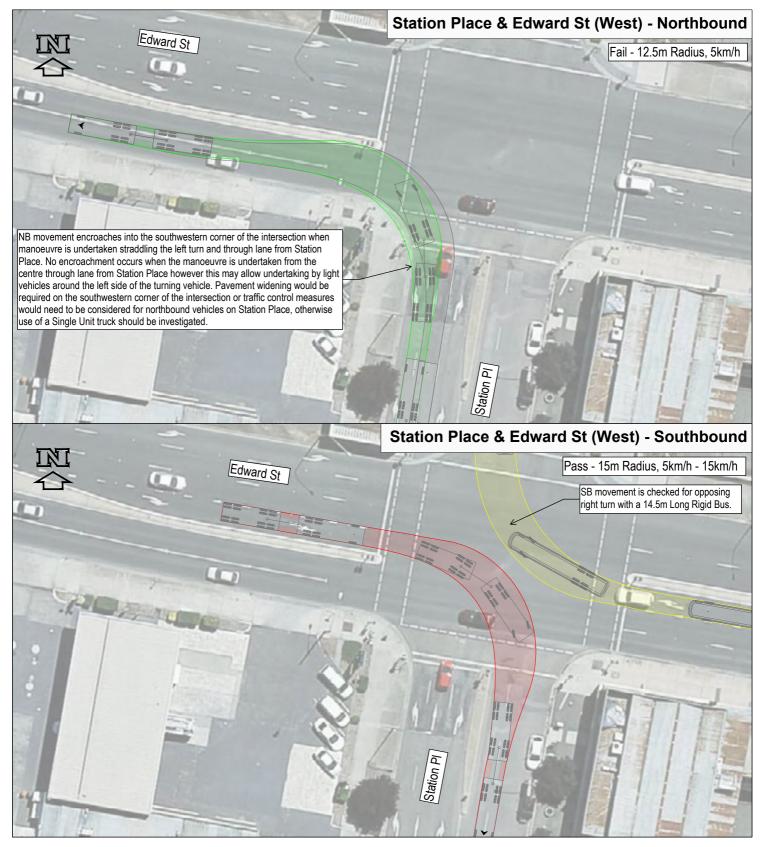


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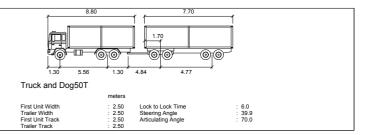




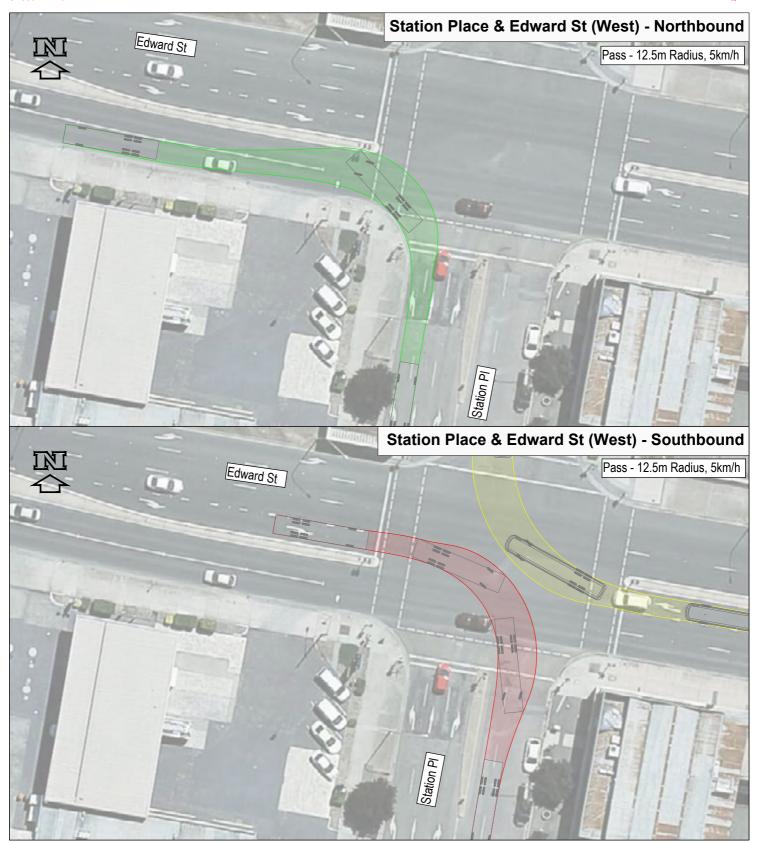
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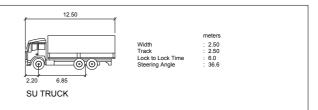
Construction Vehicle Route Swept Path Analysis



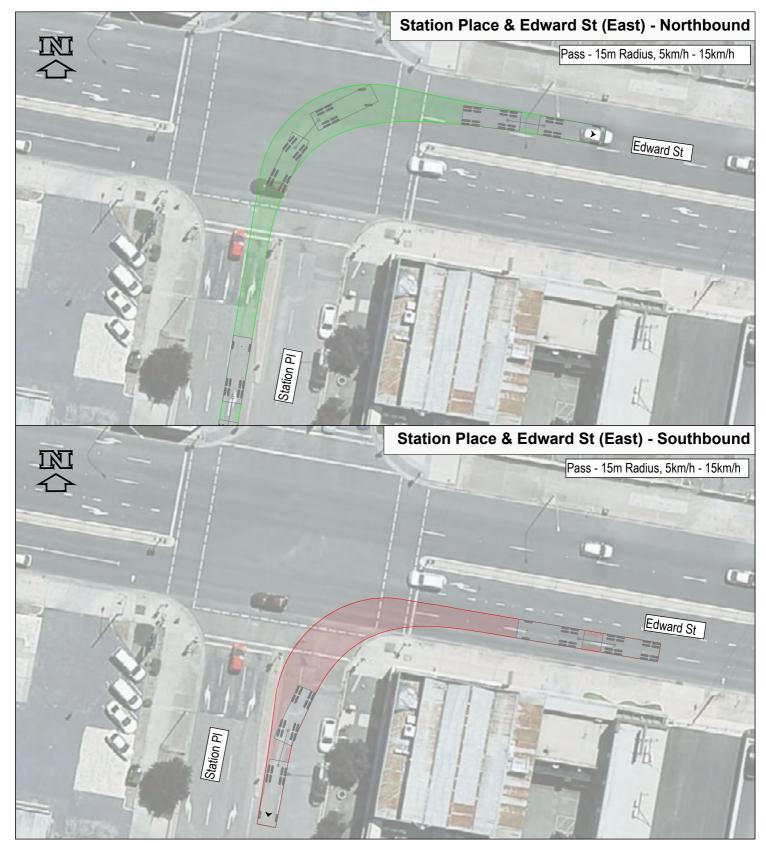
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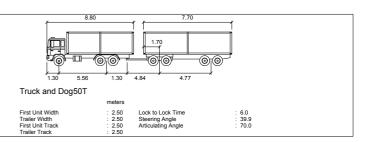




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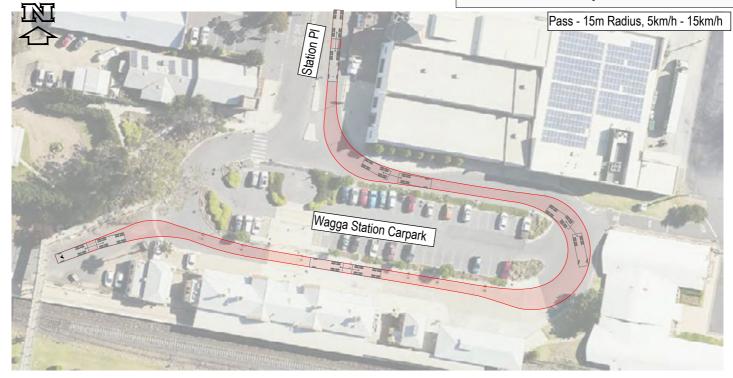
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Station Place Carpark - Northbound



Station Place Carpark - Southbound

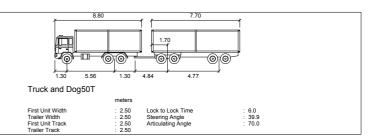


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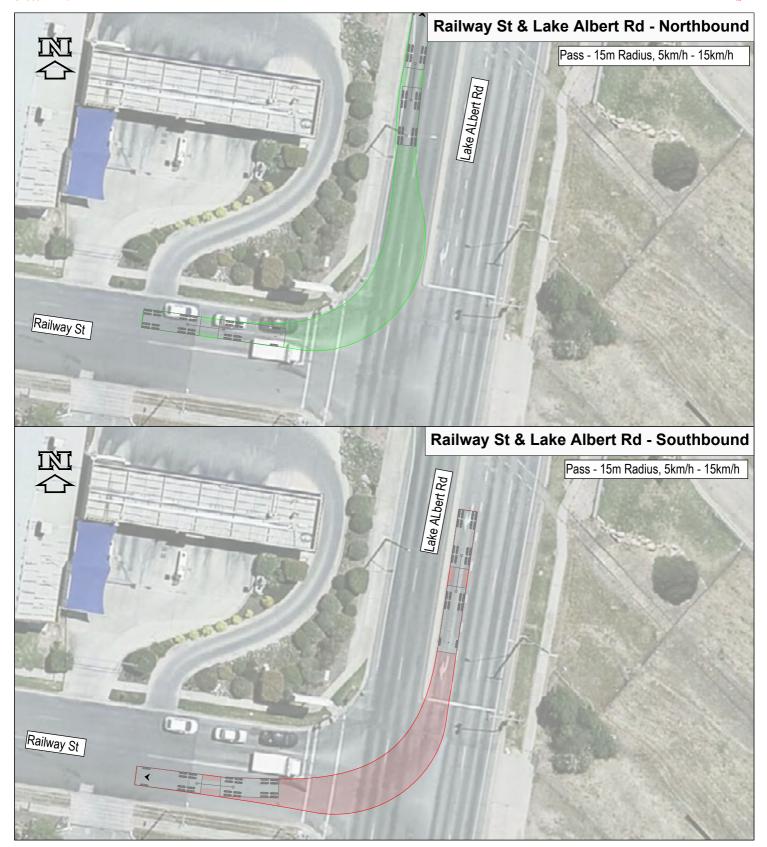
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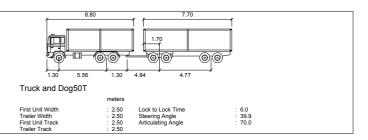


Construction Vehicle Route Swept Path Analysis



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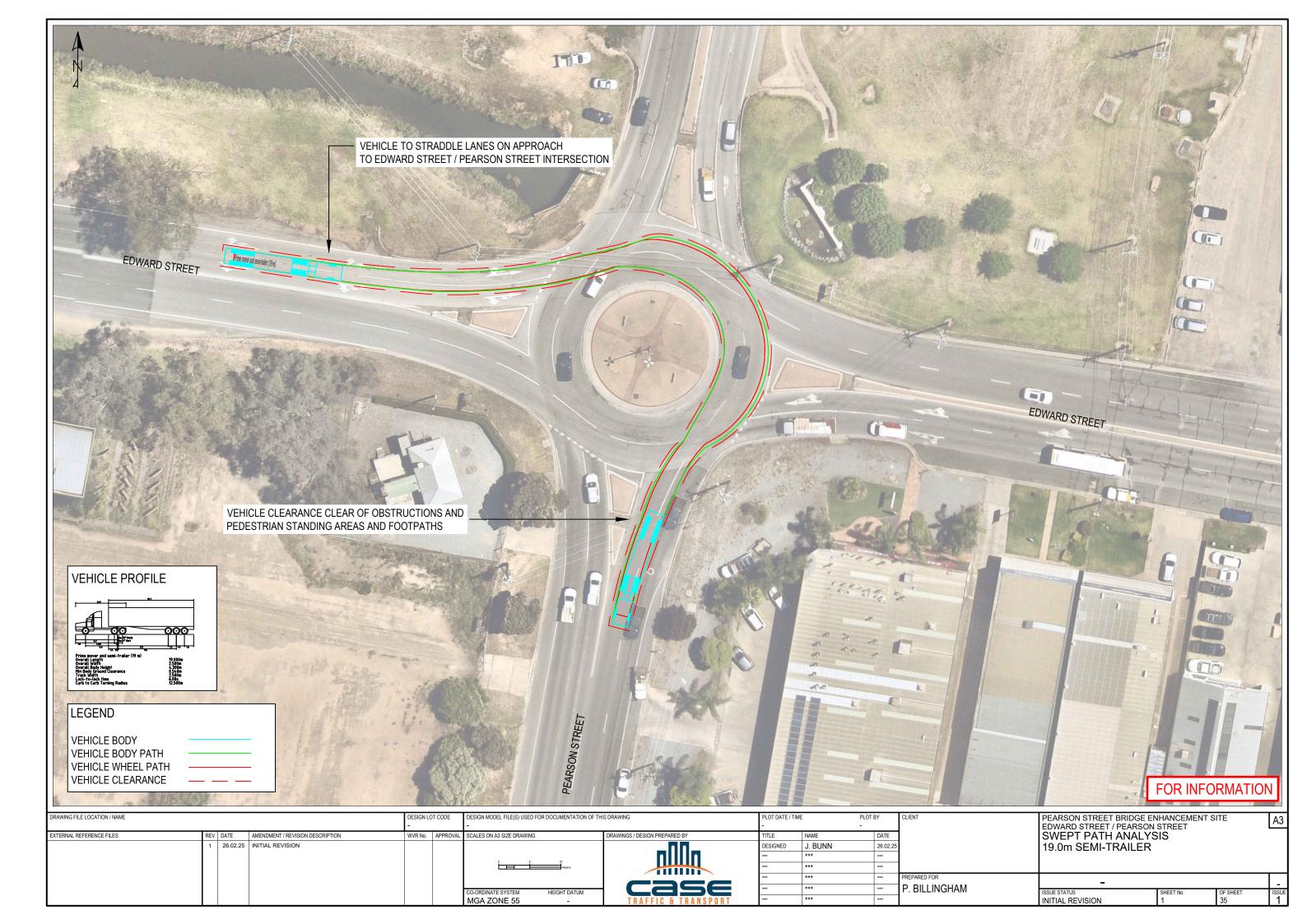
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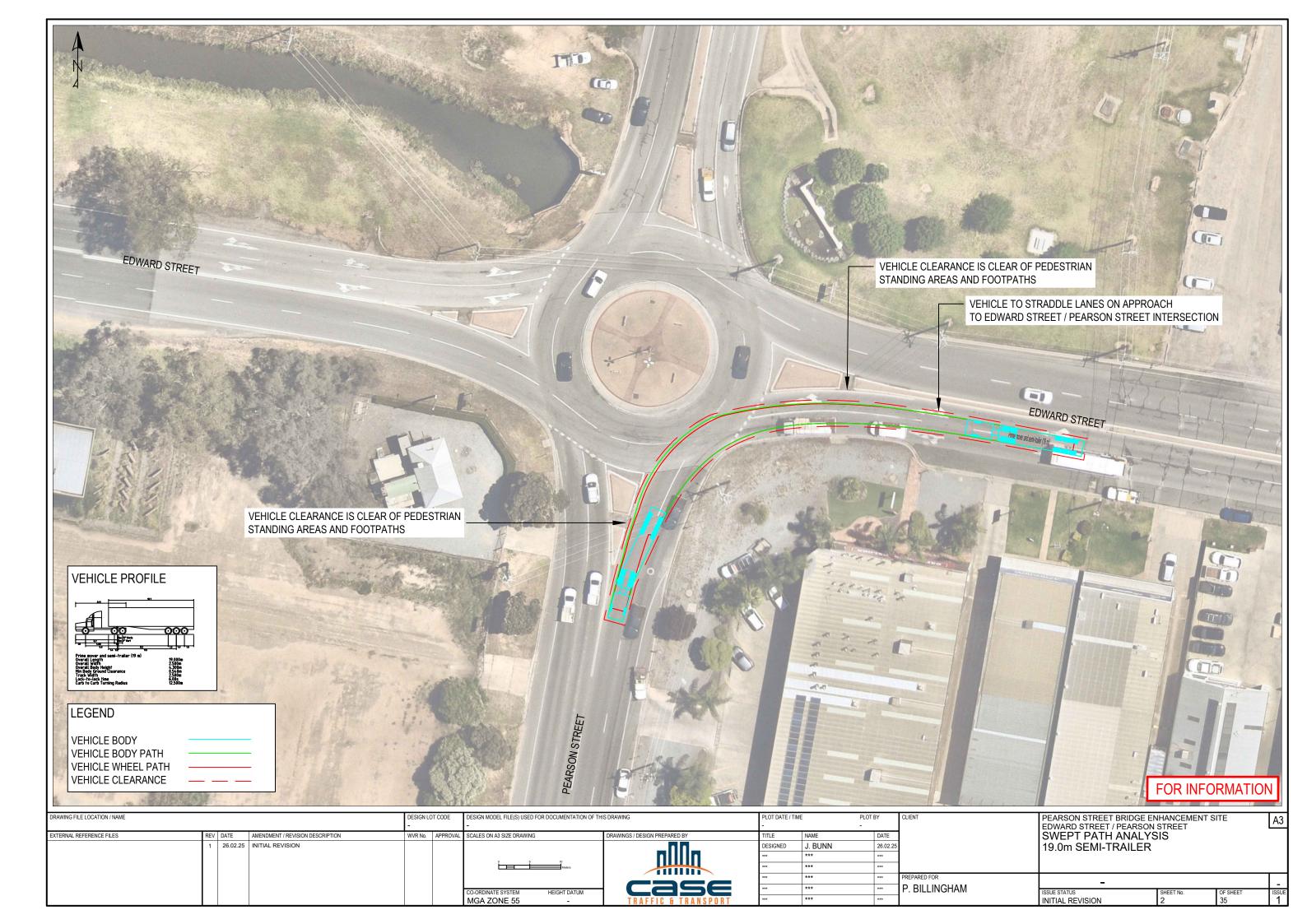


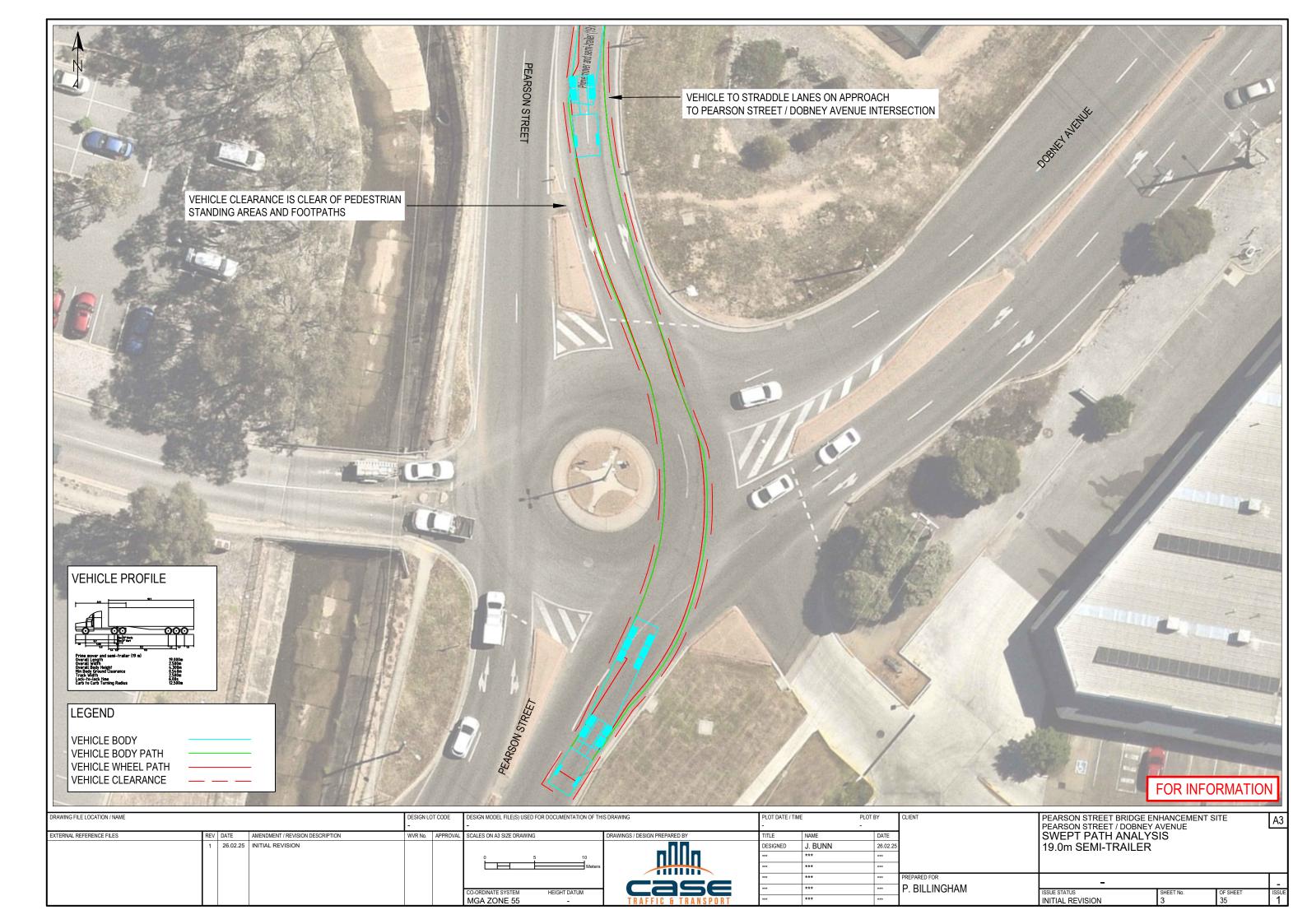


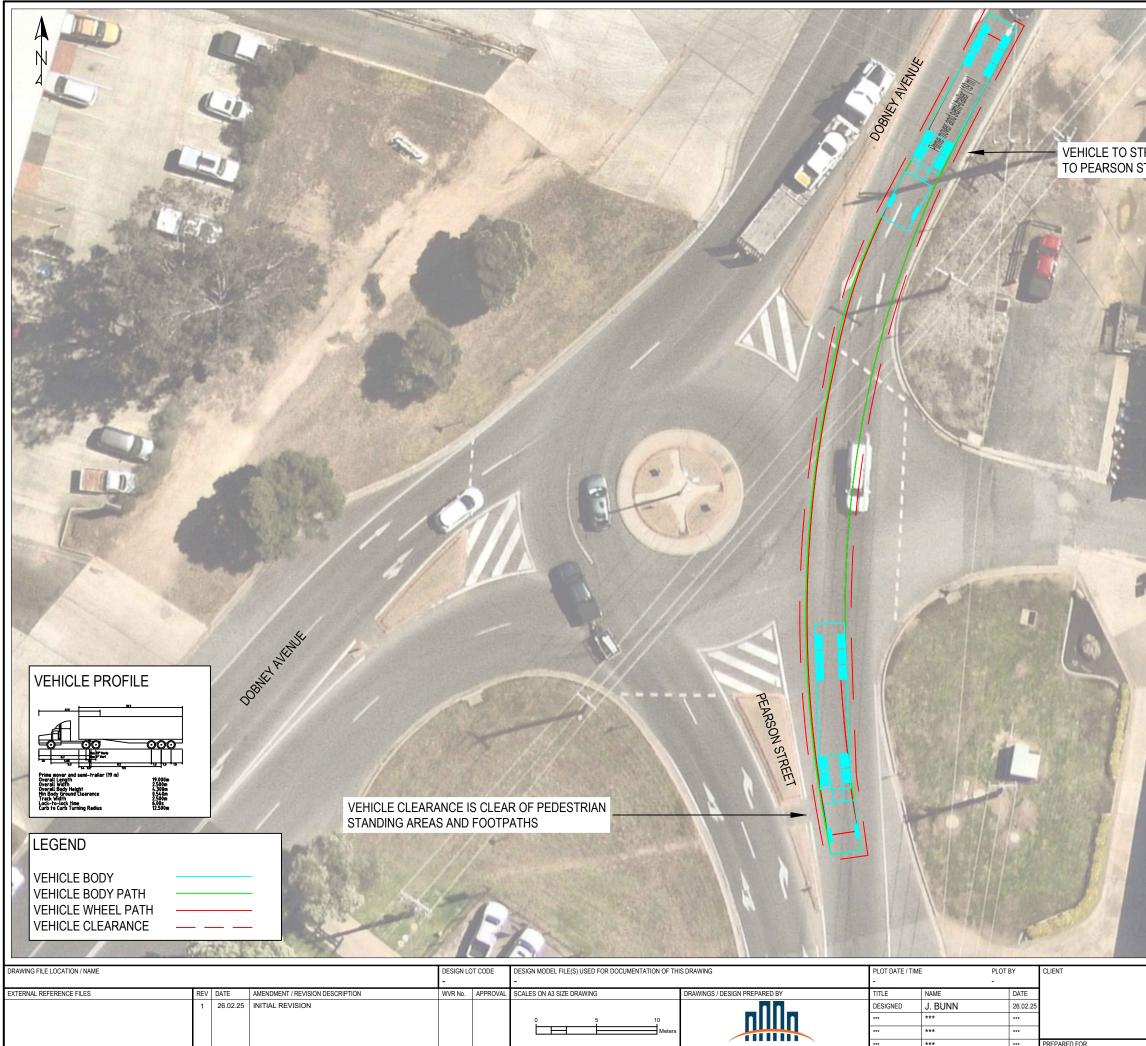
APPENDIX C

Further Swept Path Analysis









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VEHICLE TO STRADDLE LANES ON APPROACH TO PEARSON STREET / DOBNEY AVENUE INTERSECTION

FOR INFORMATION

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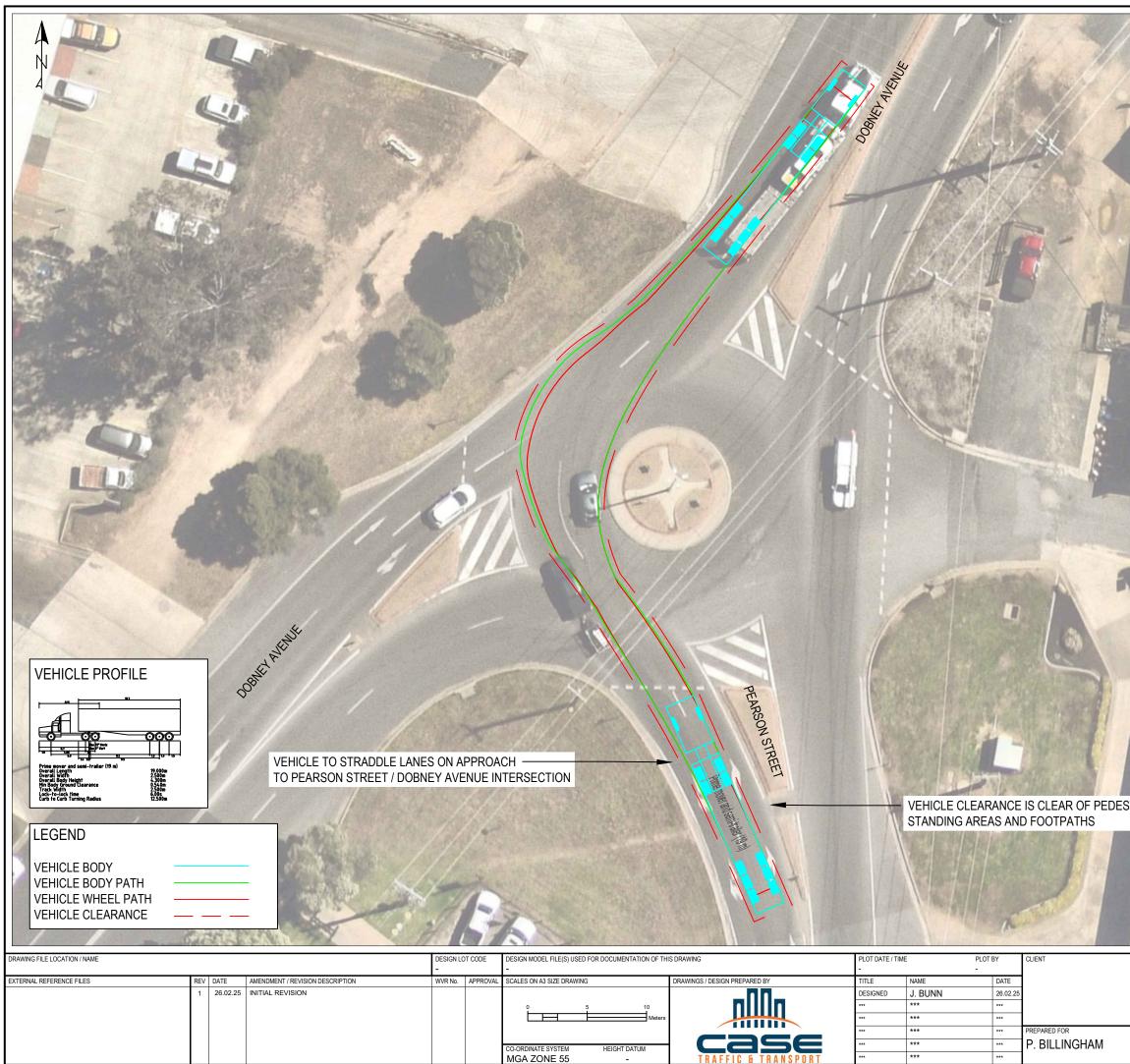
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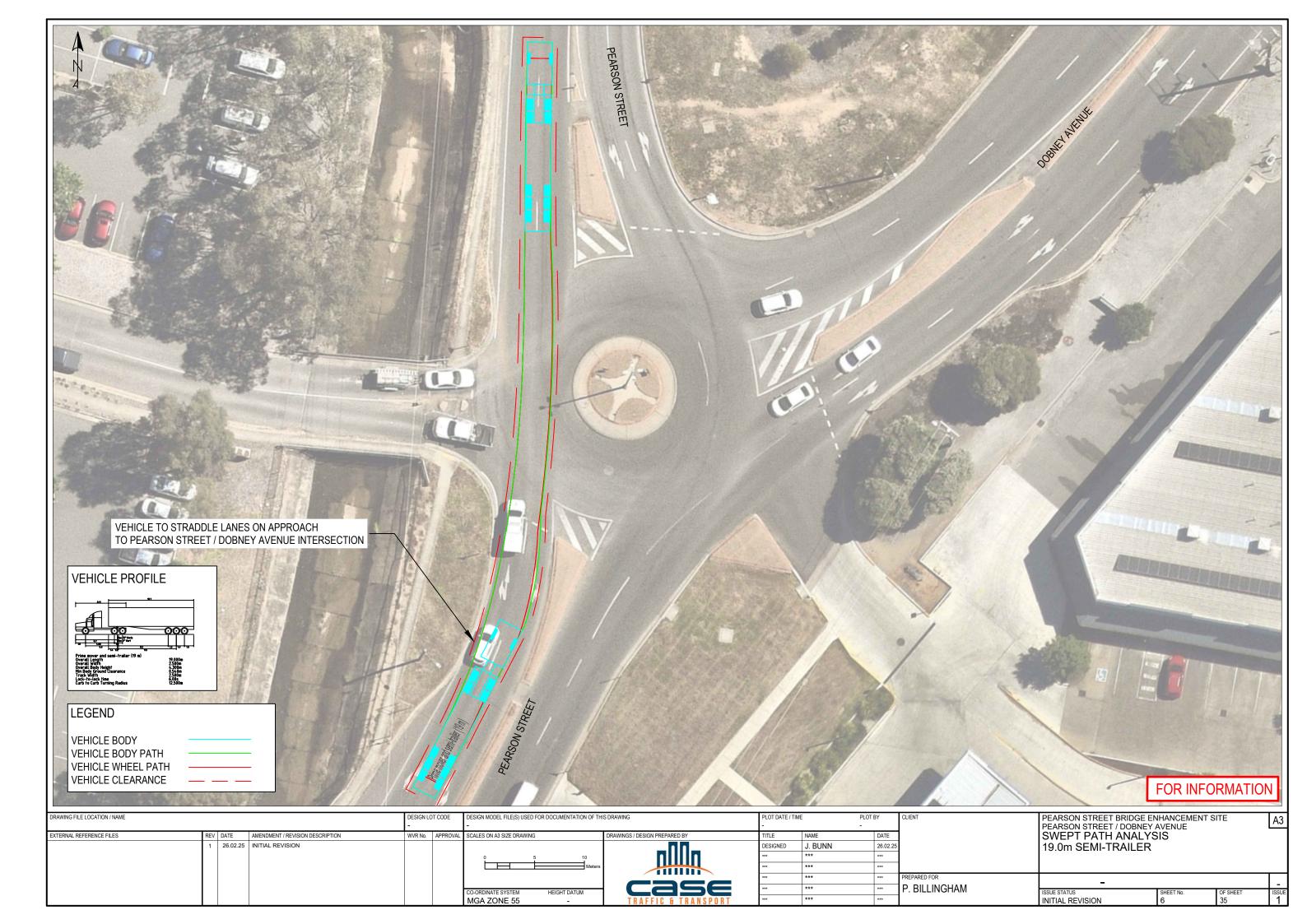
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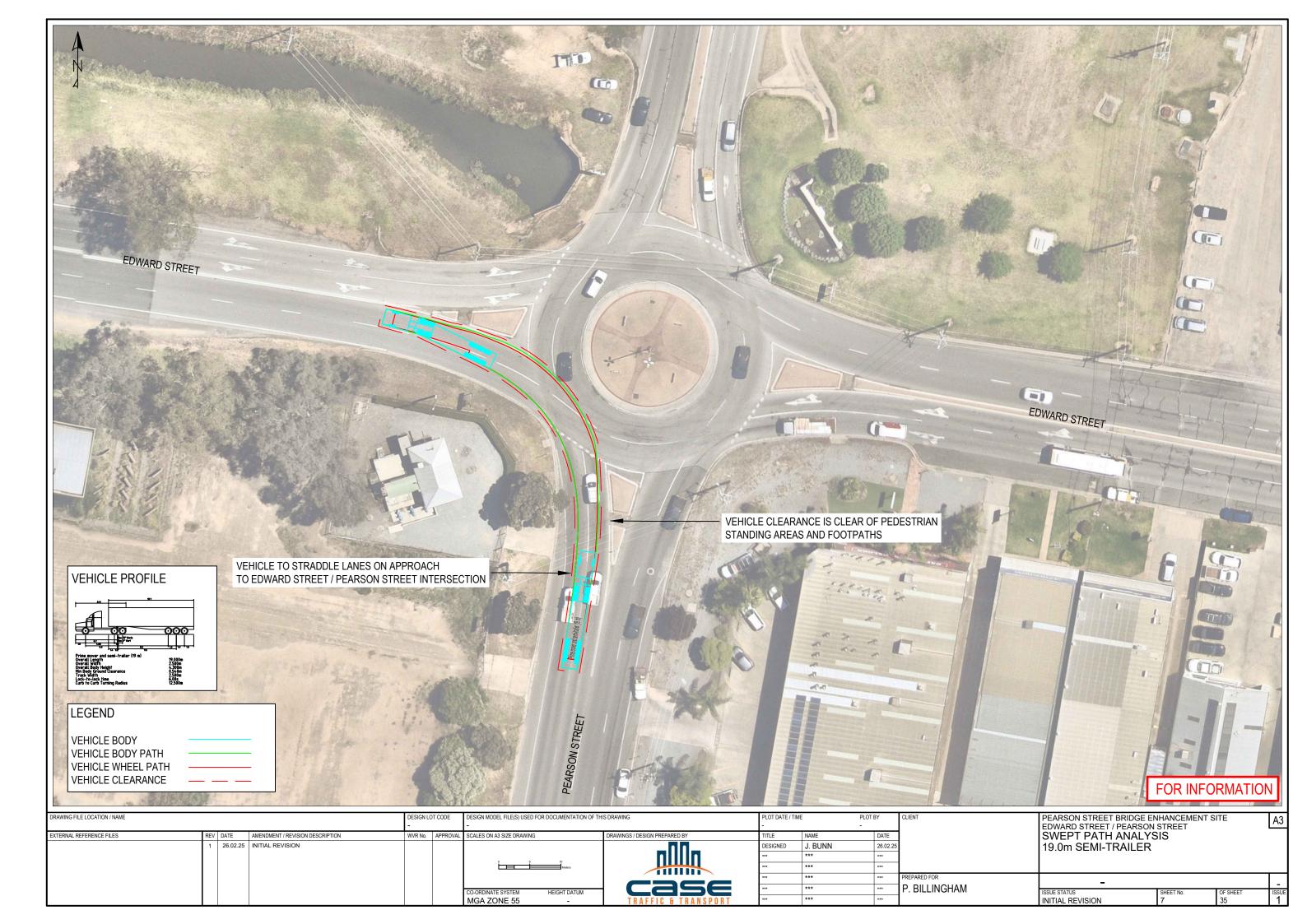
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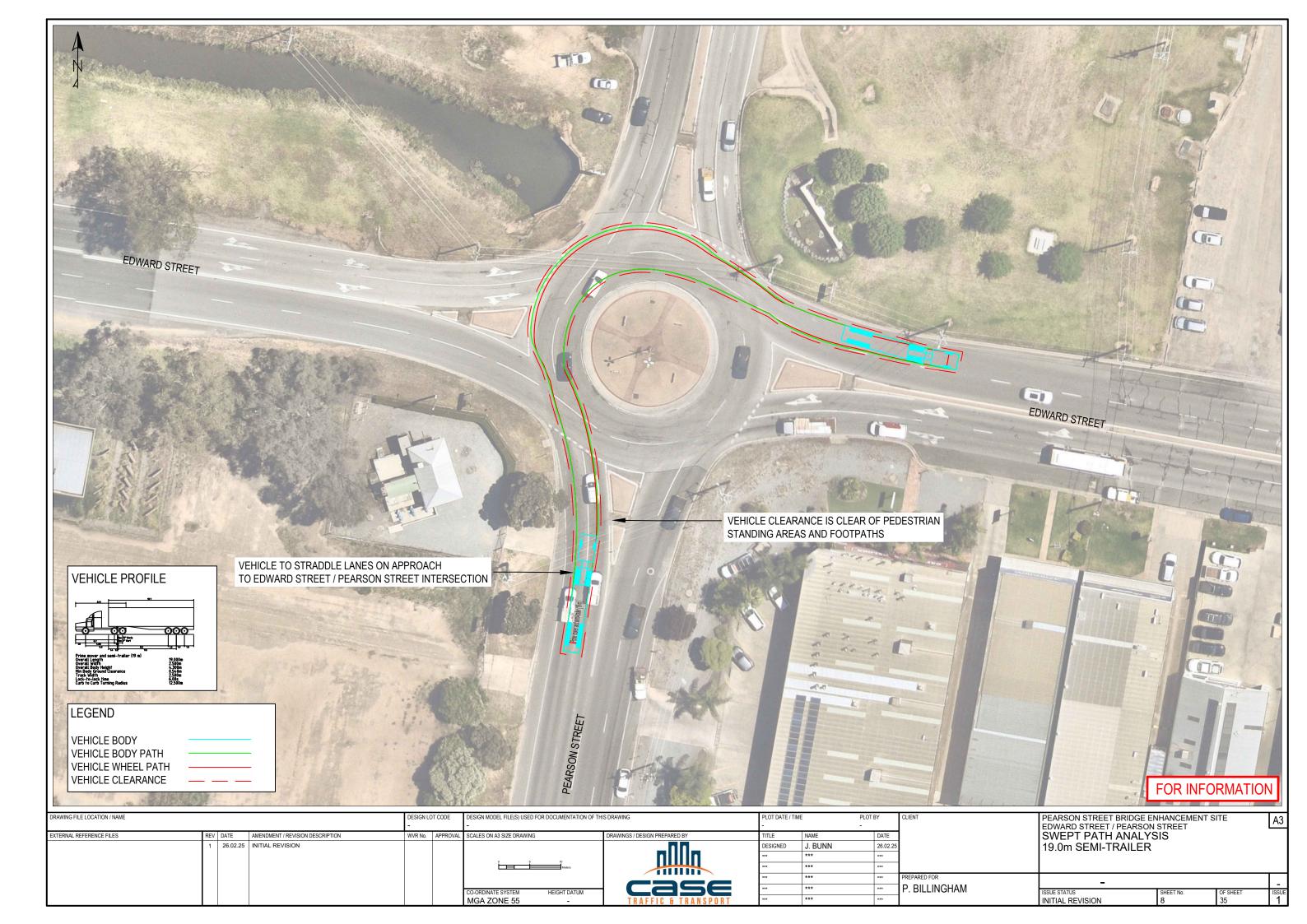
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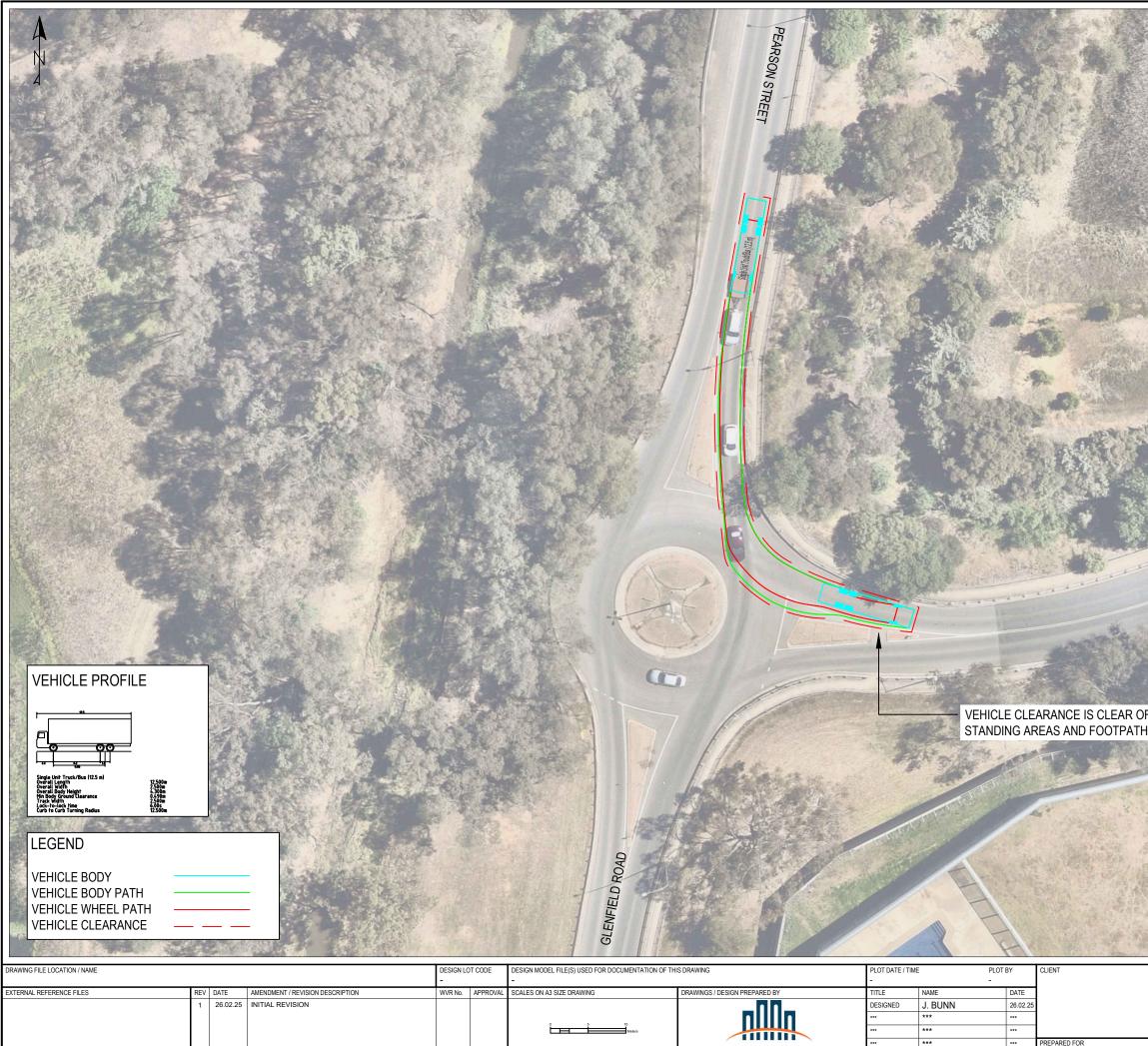


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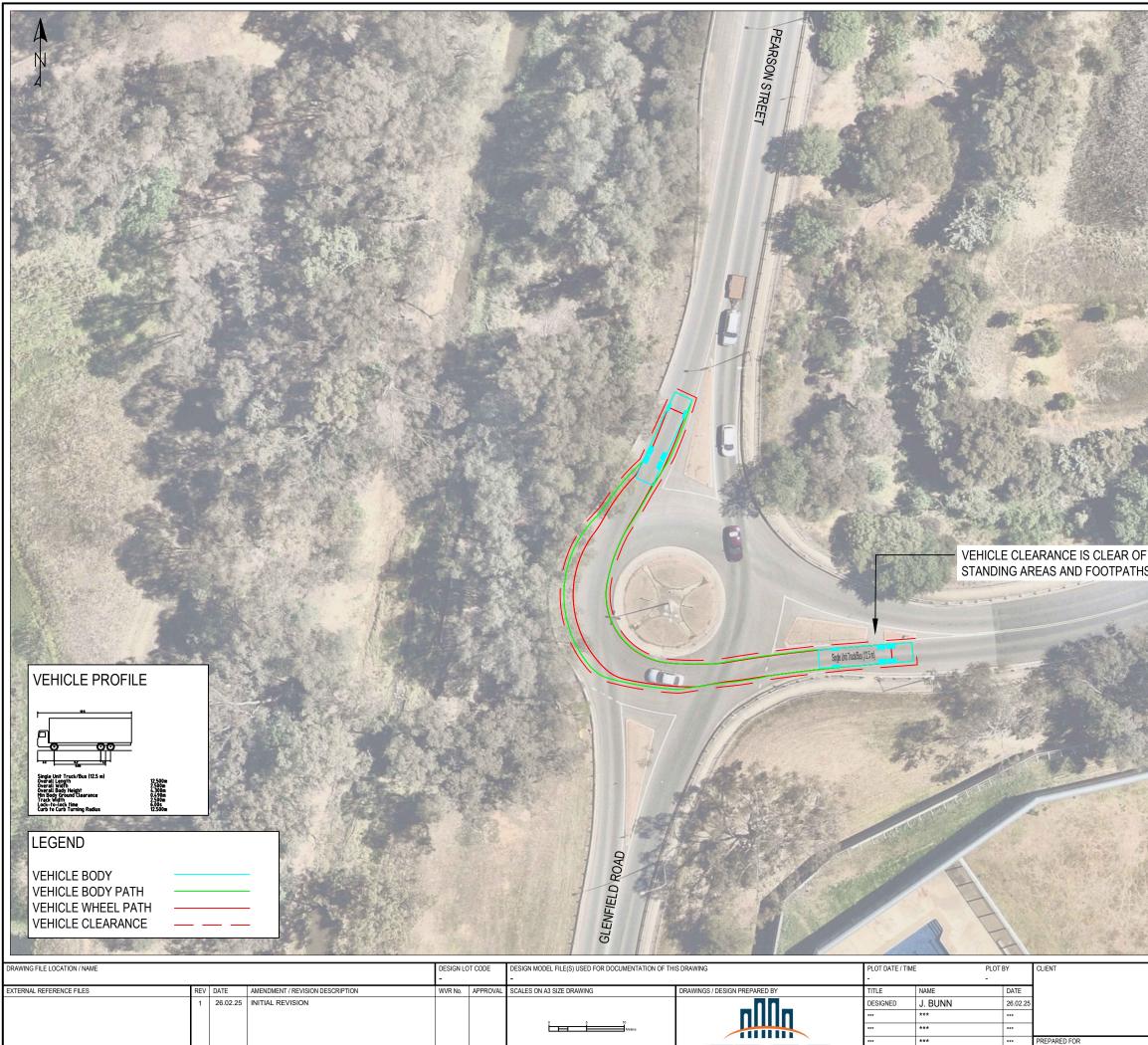
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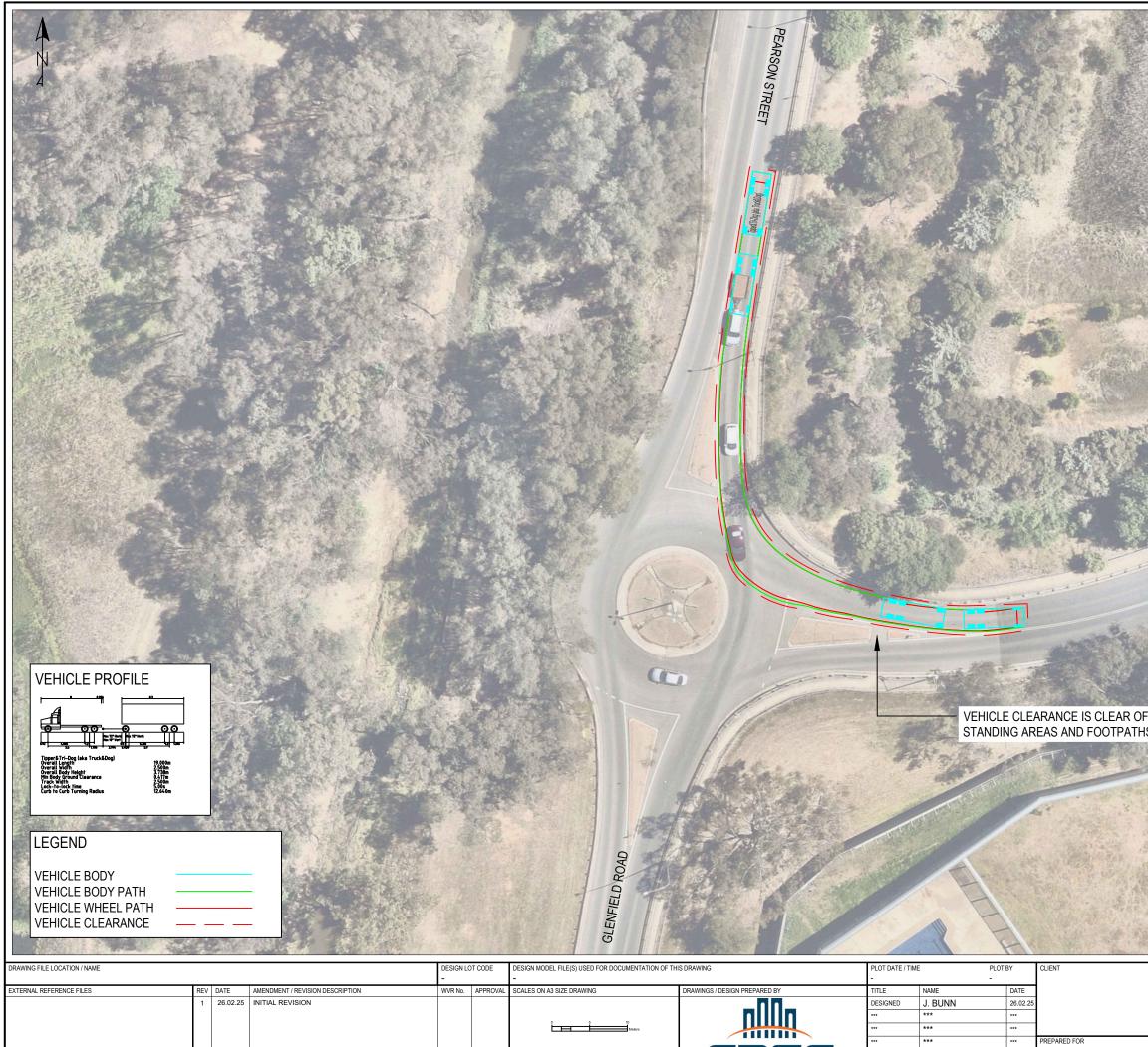
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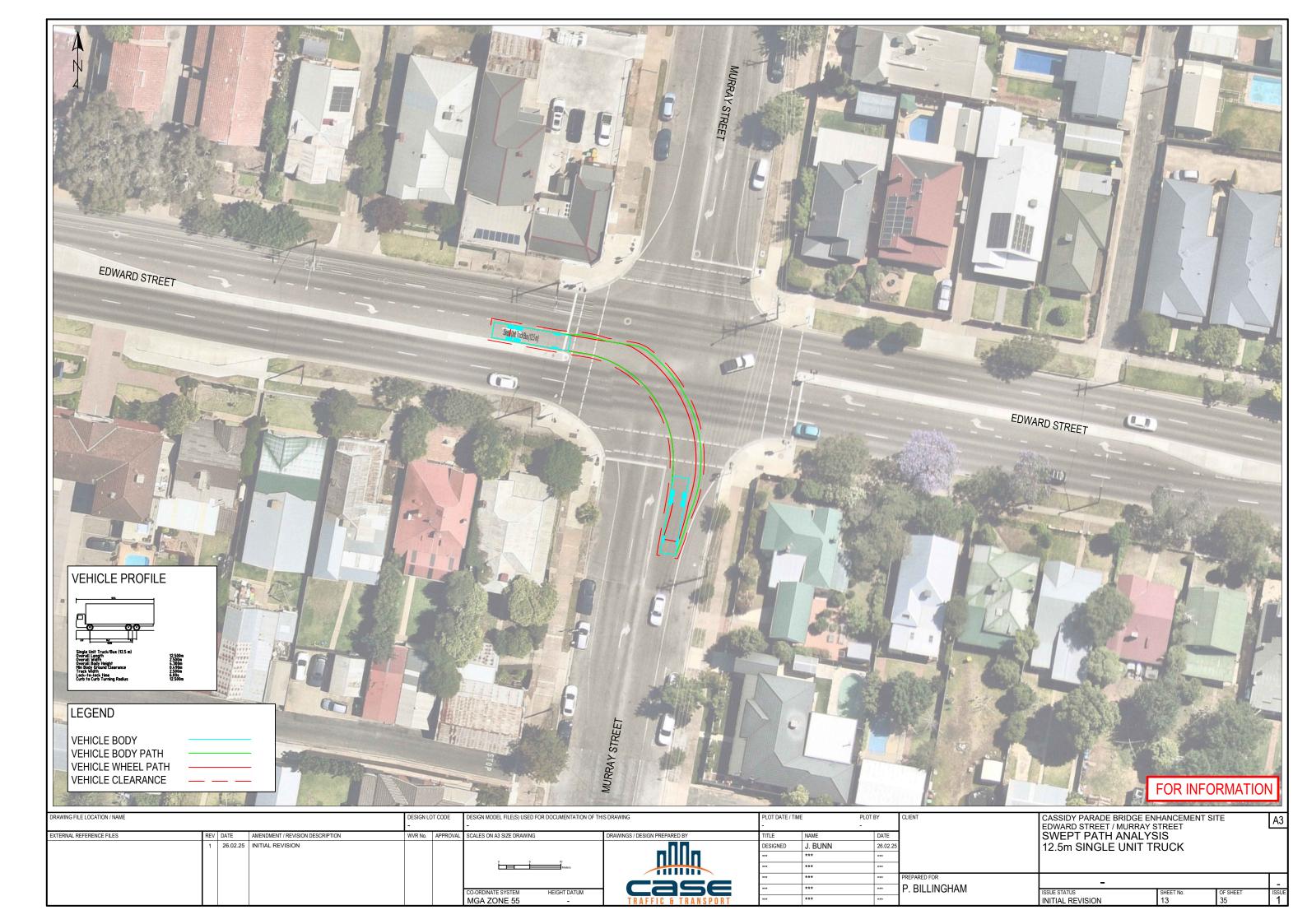
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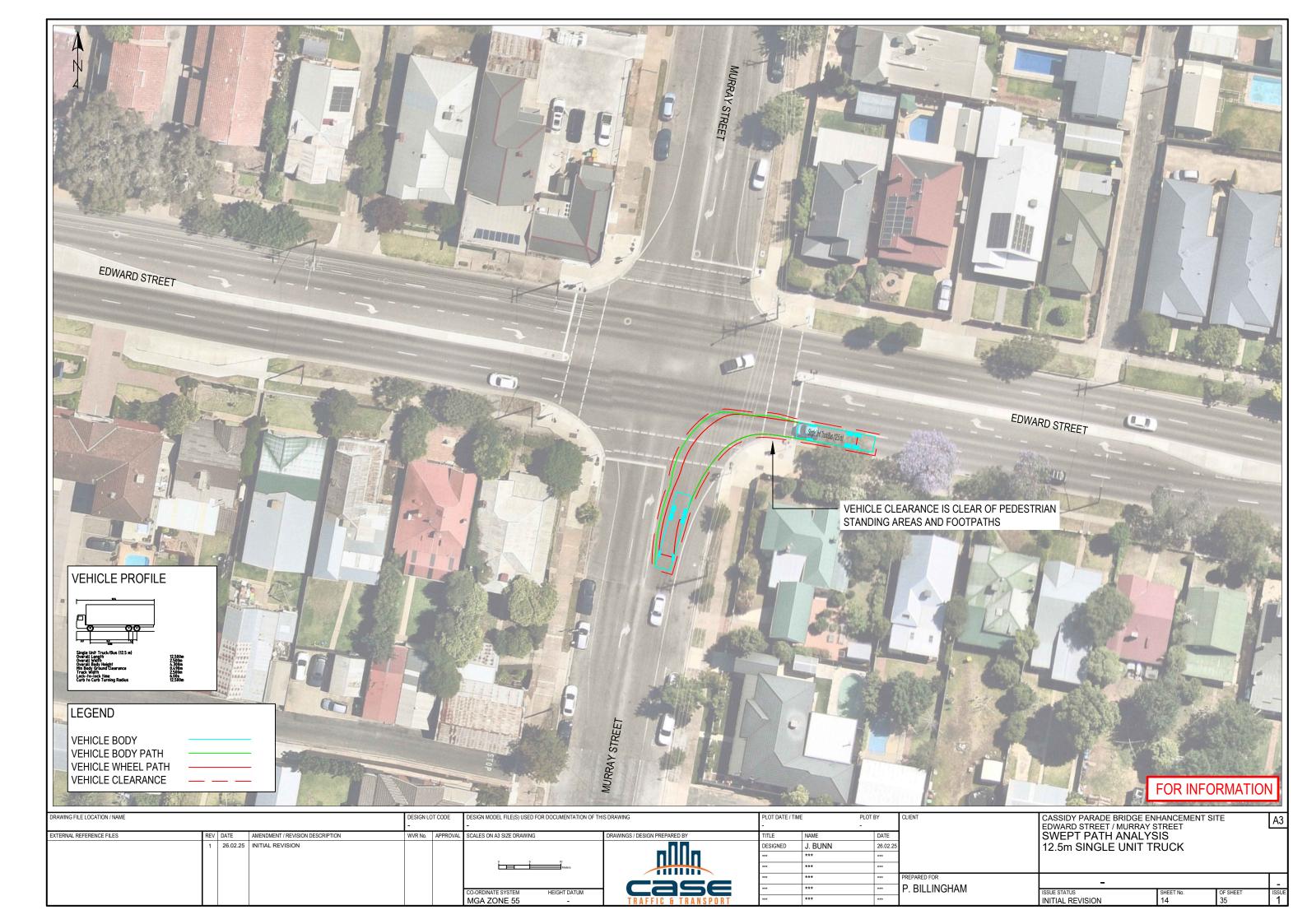
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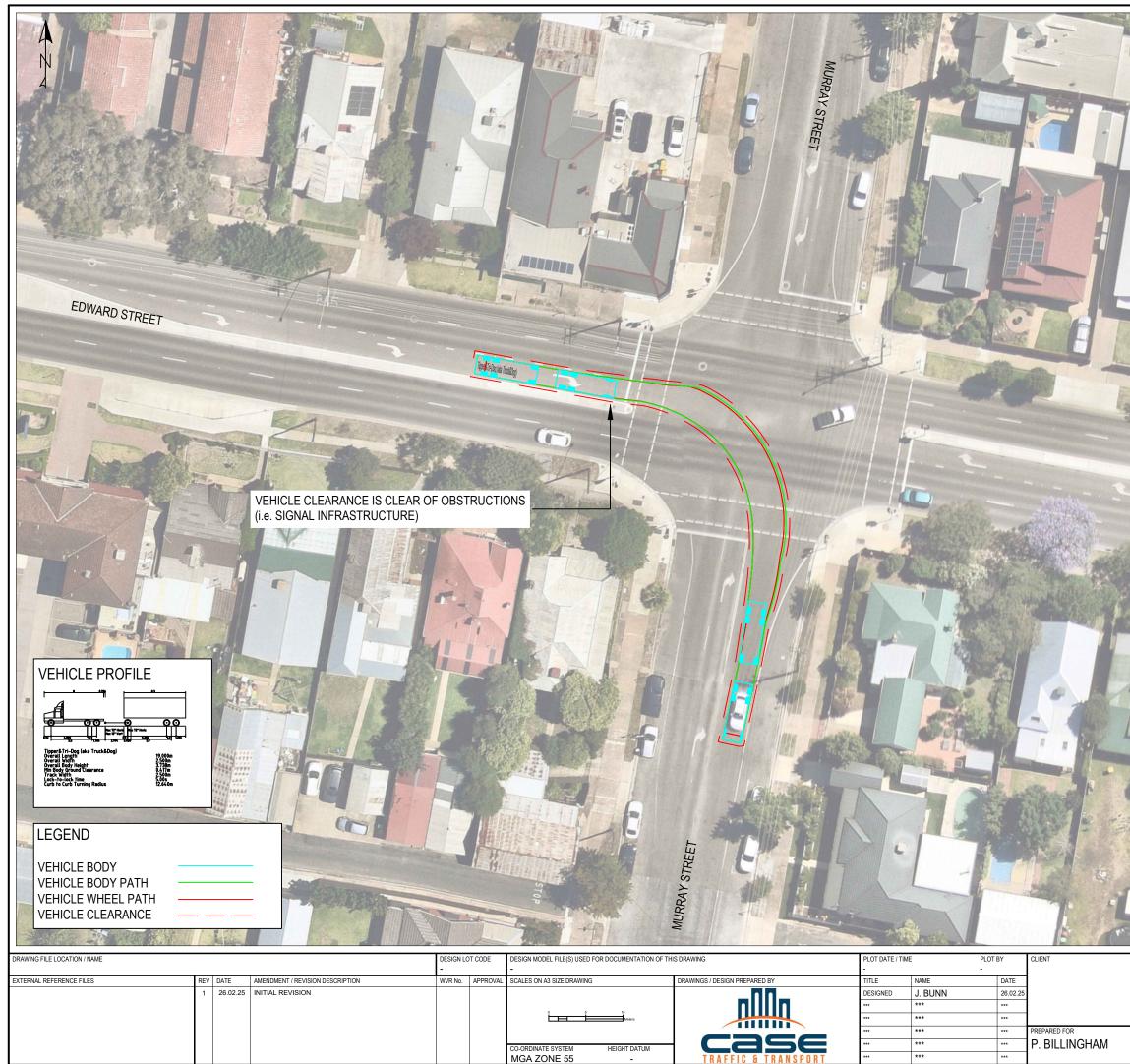
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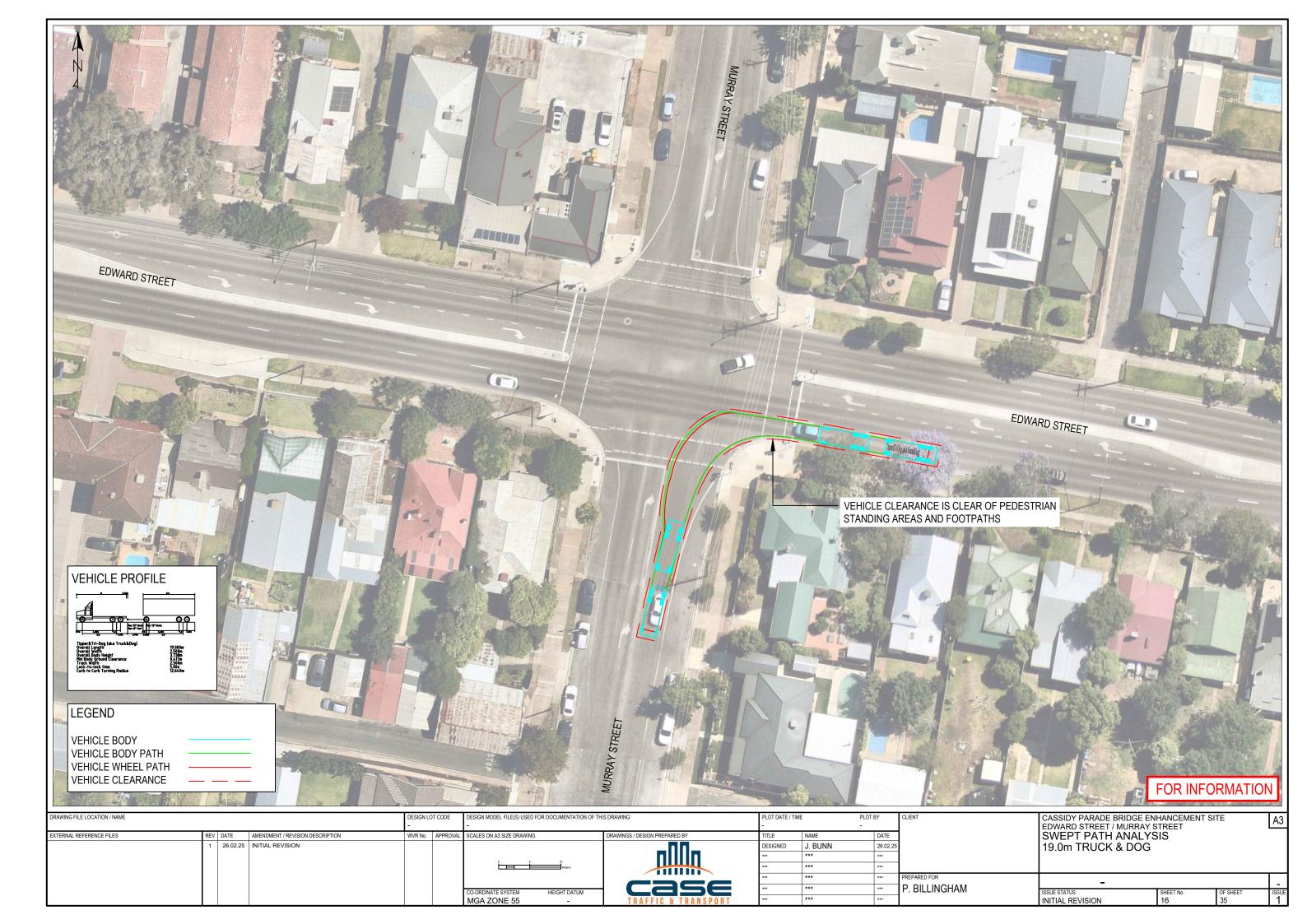


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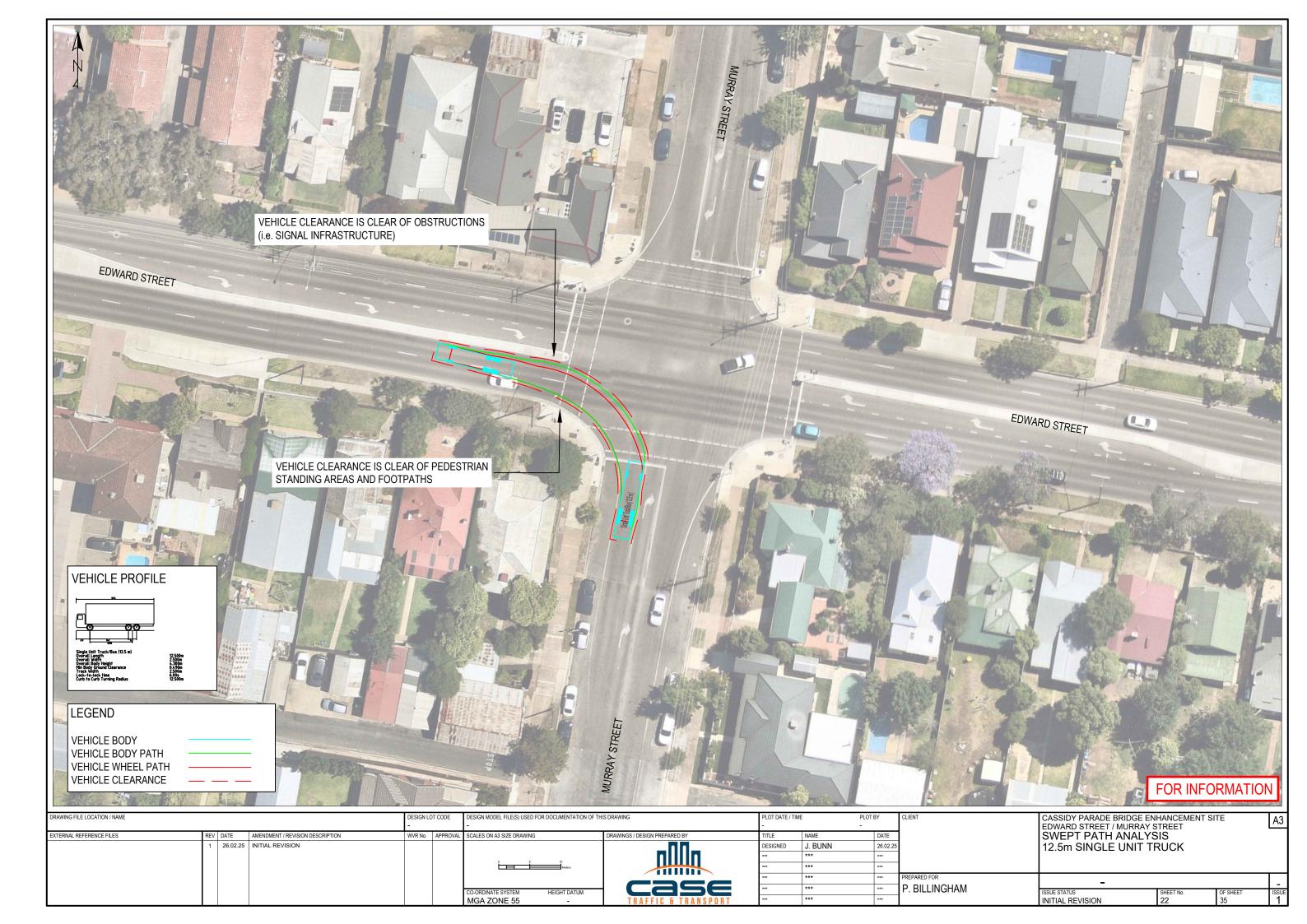
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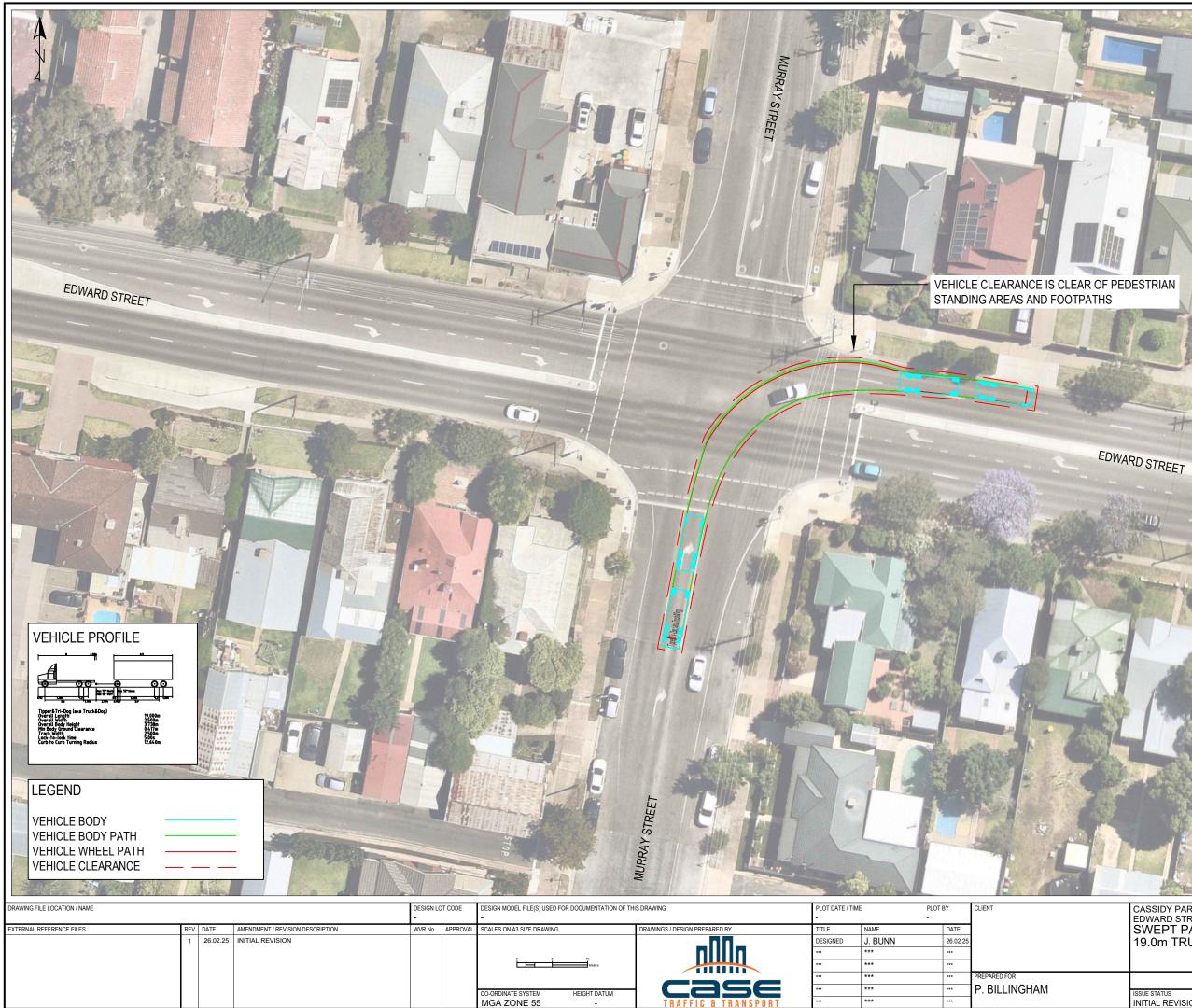
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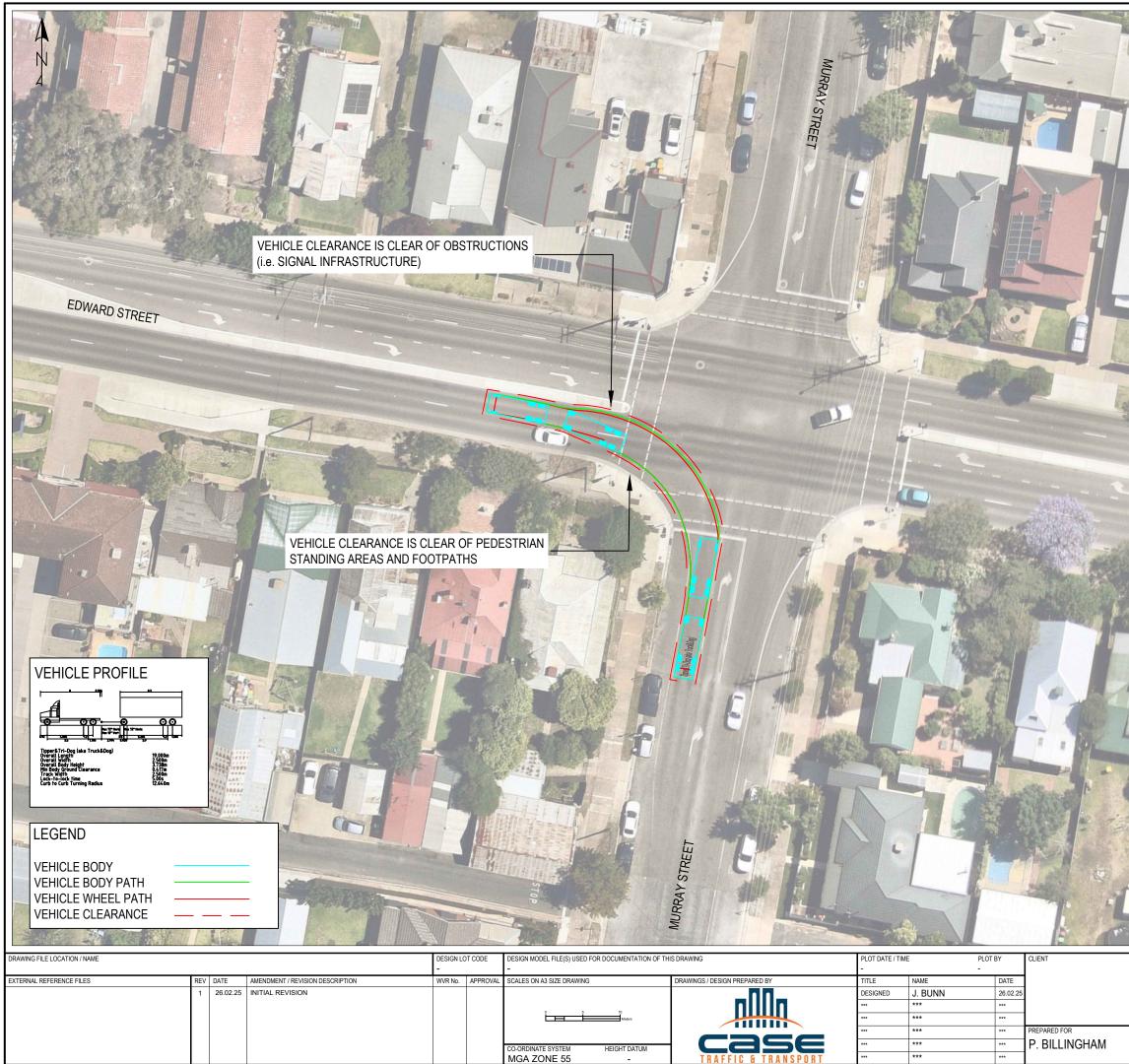
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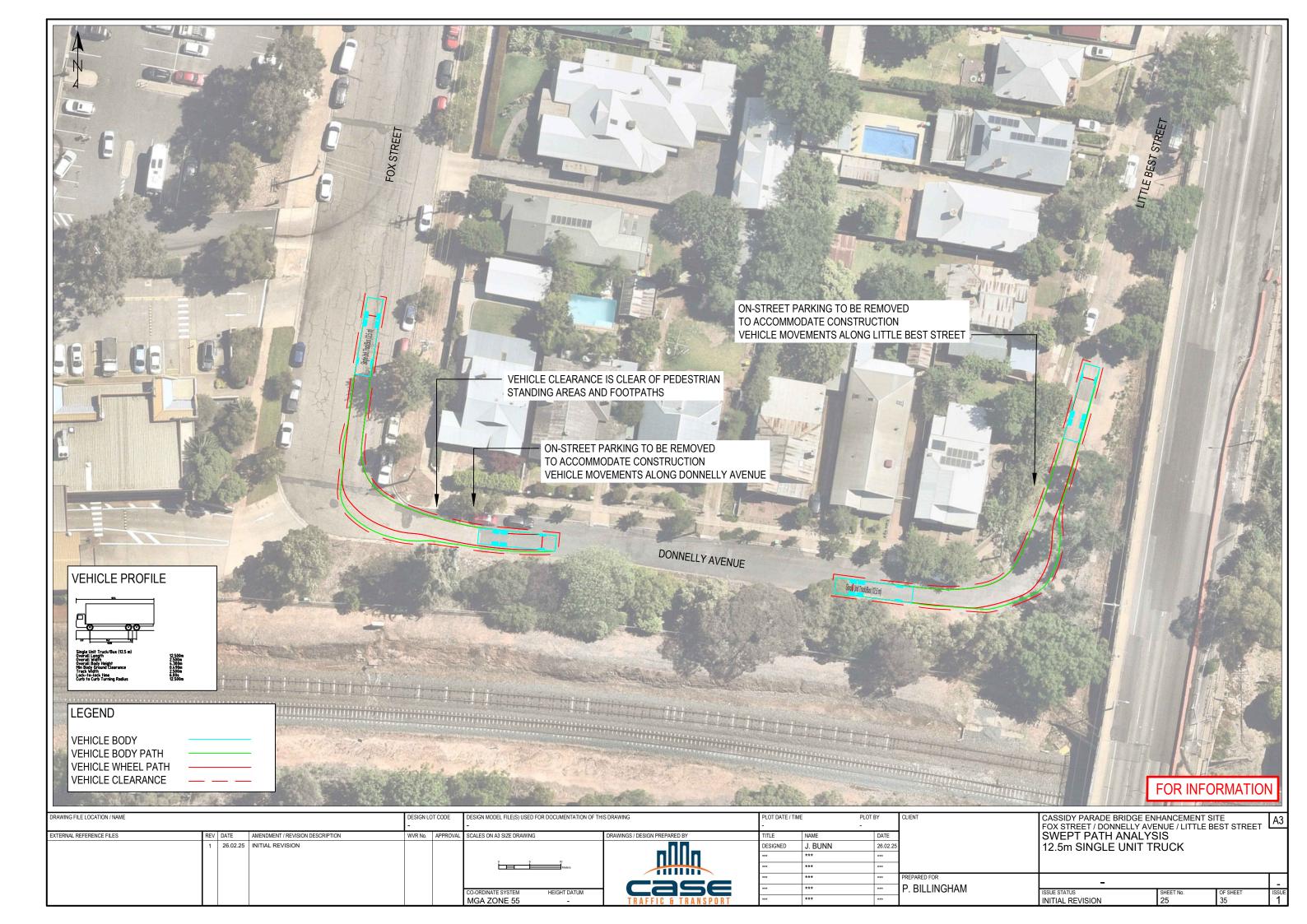
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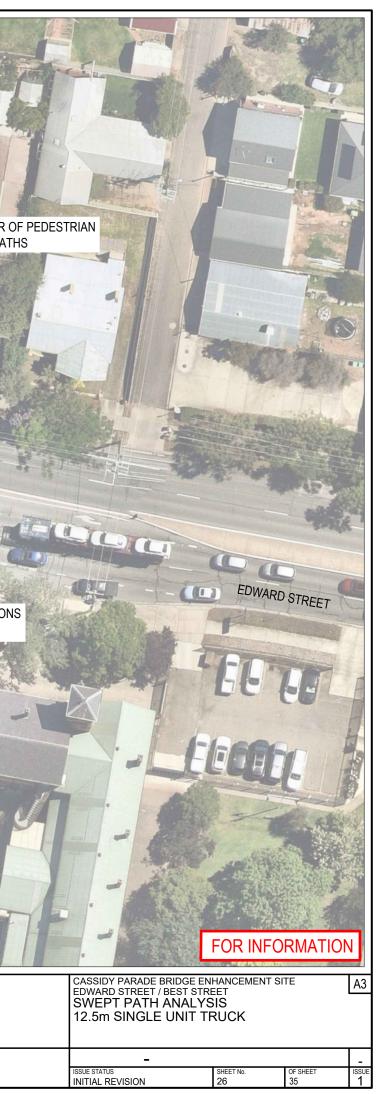
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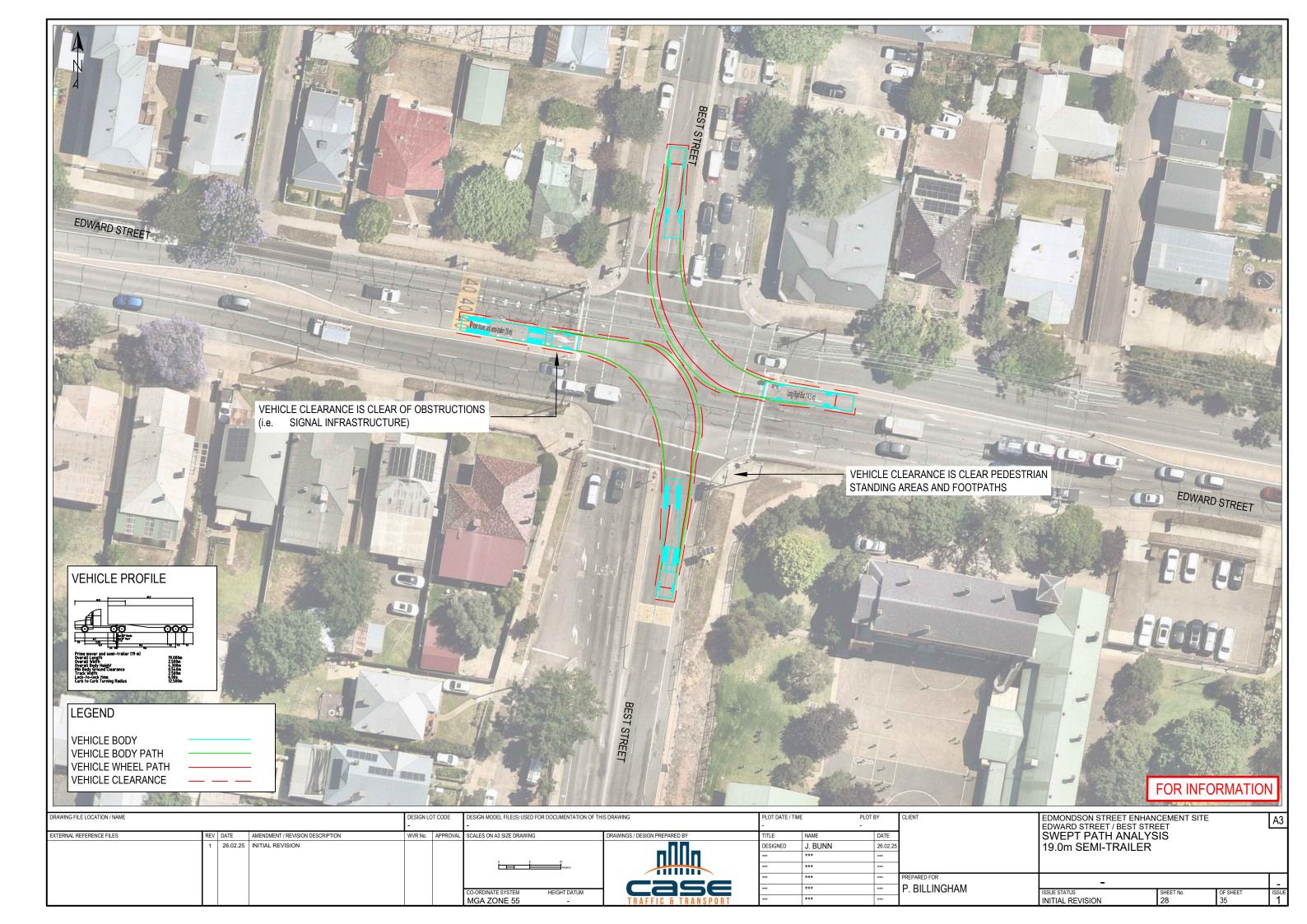
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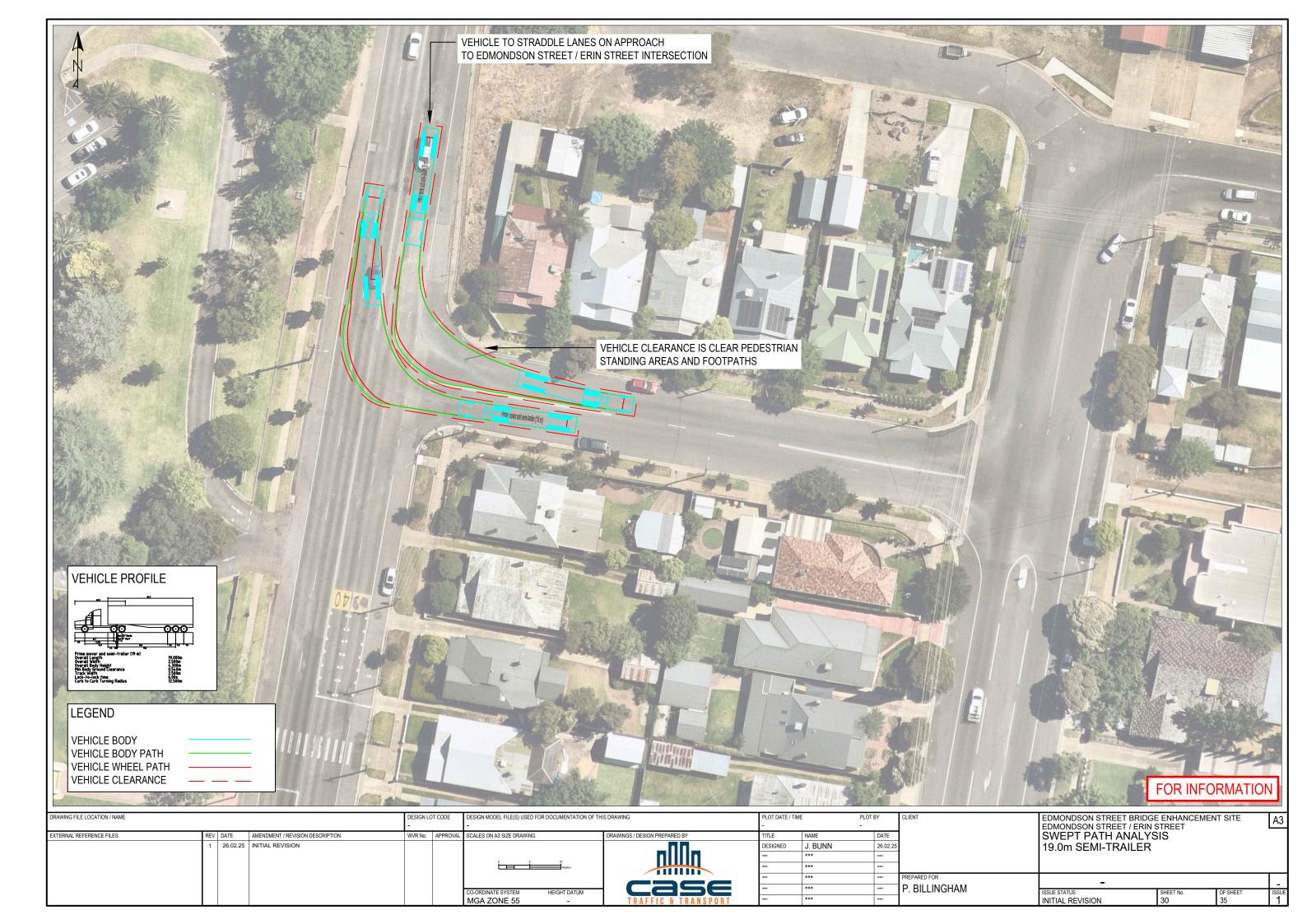
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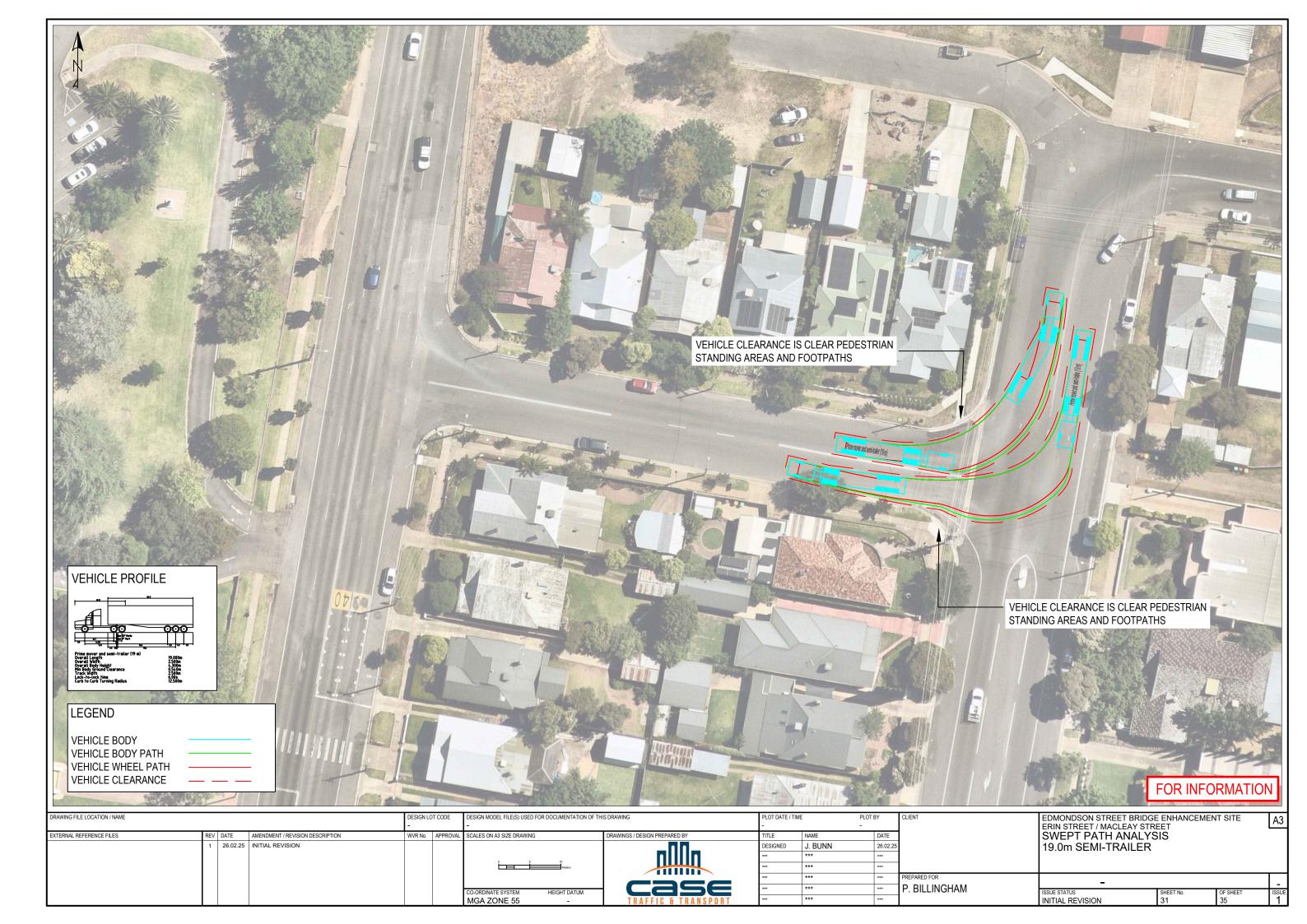


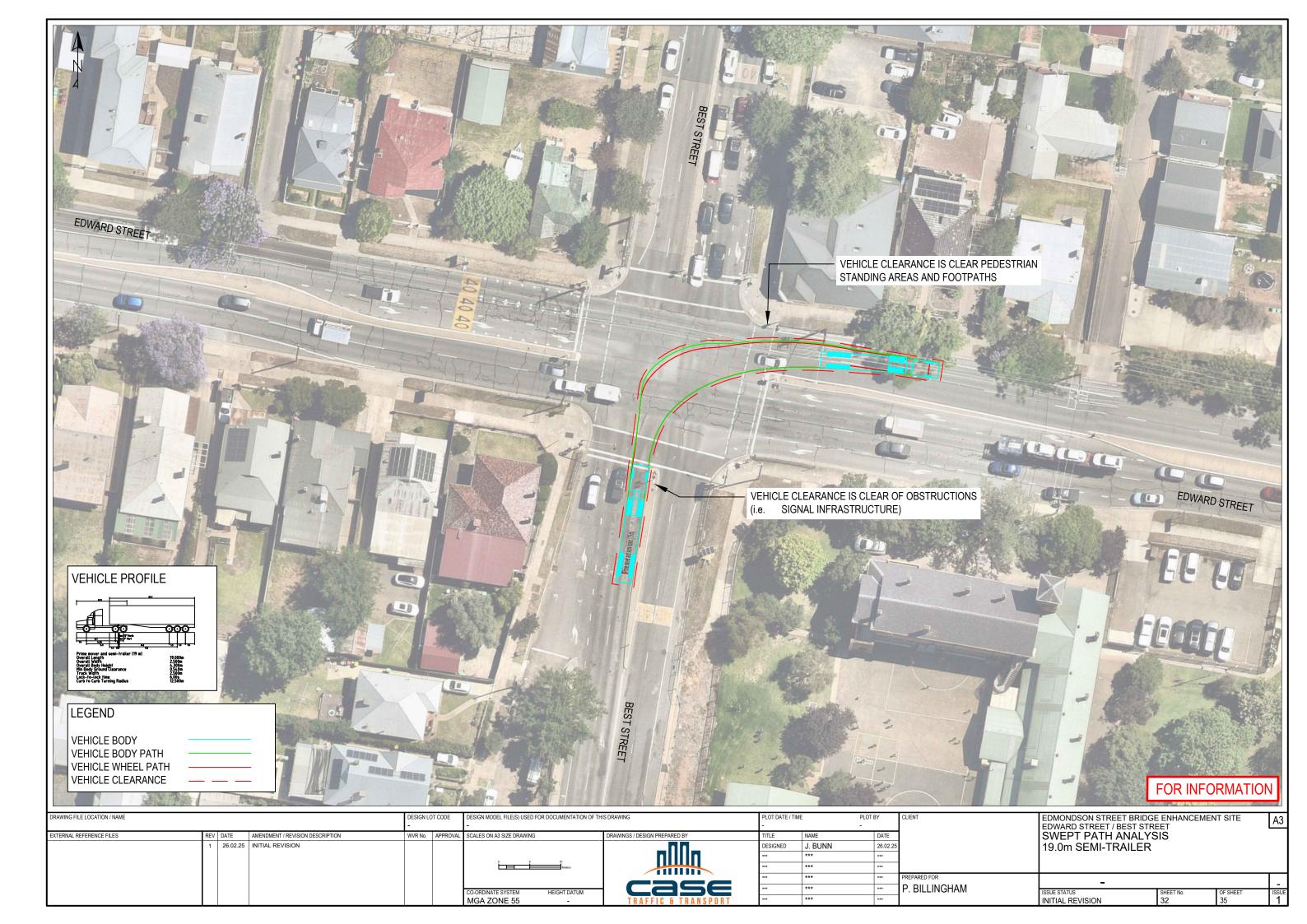


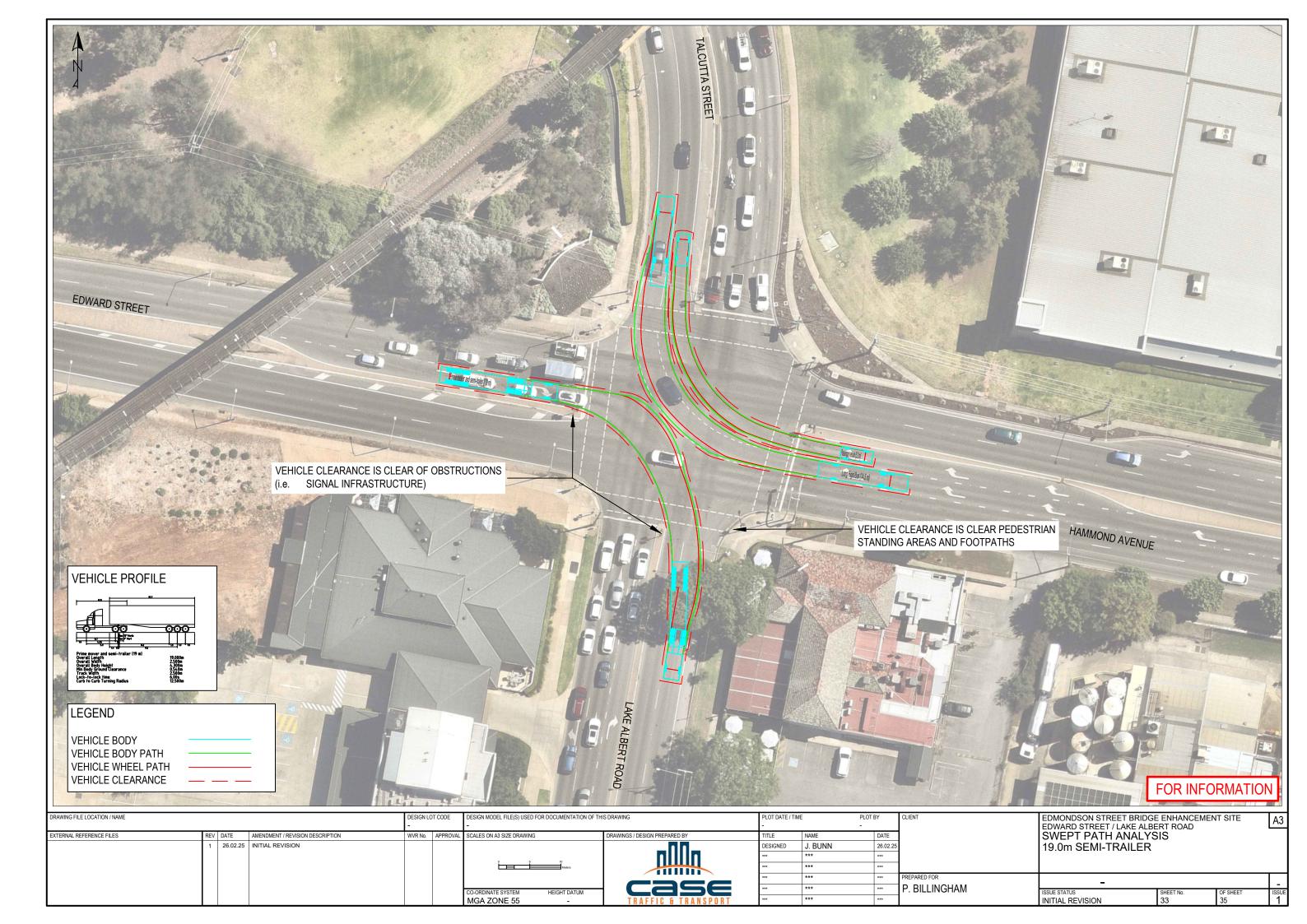


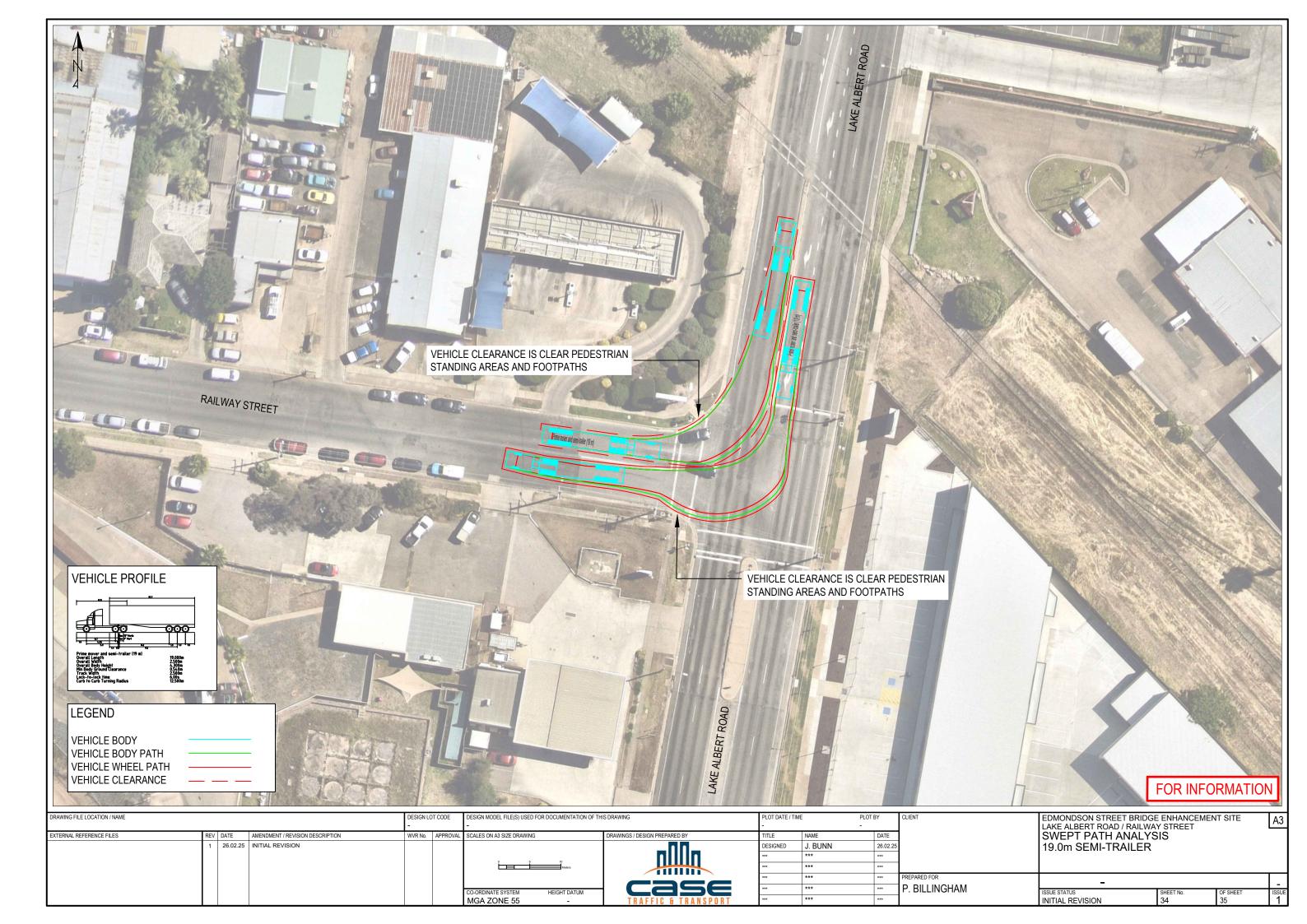


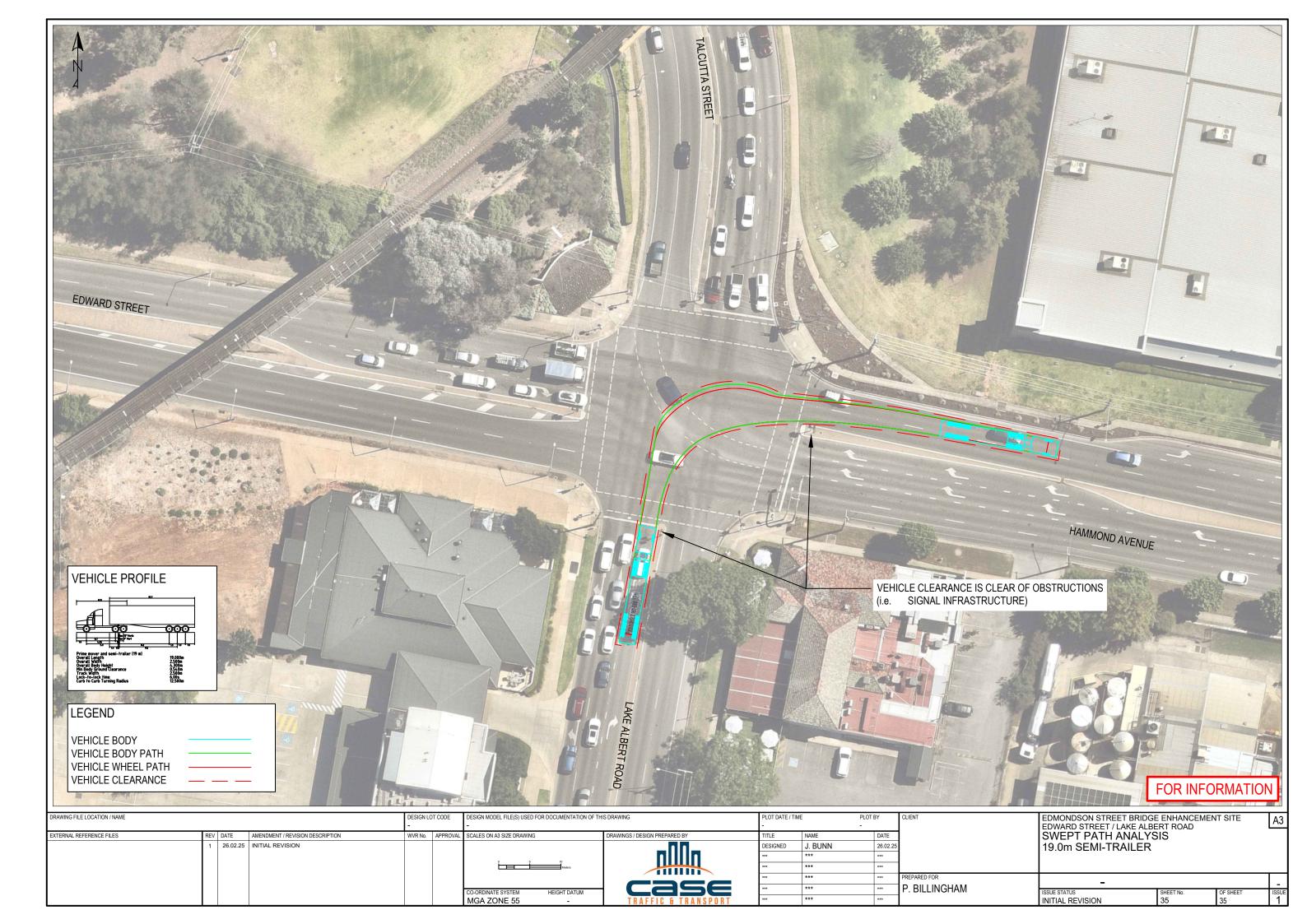


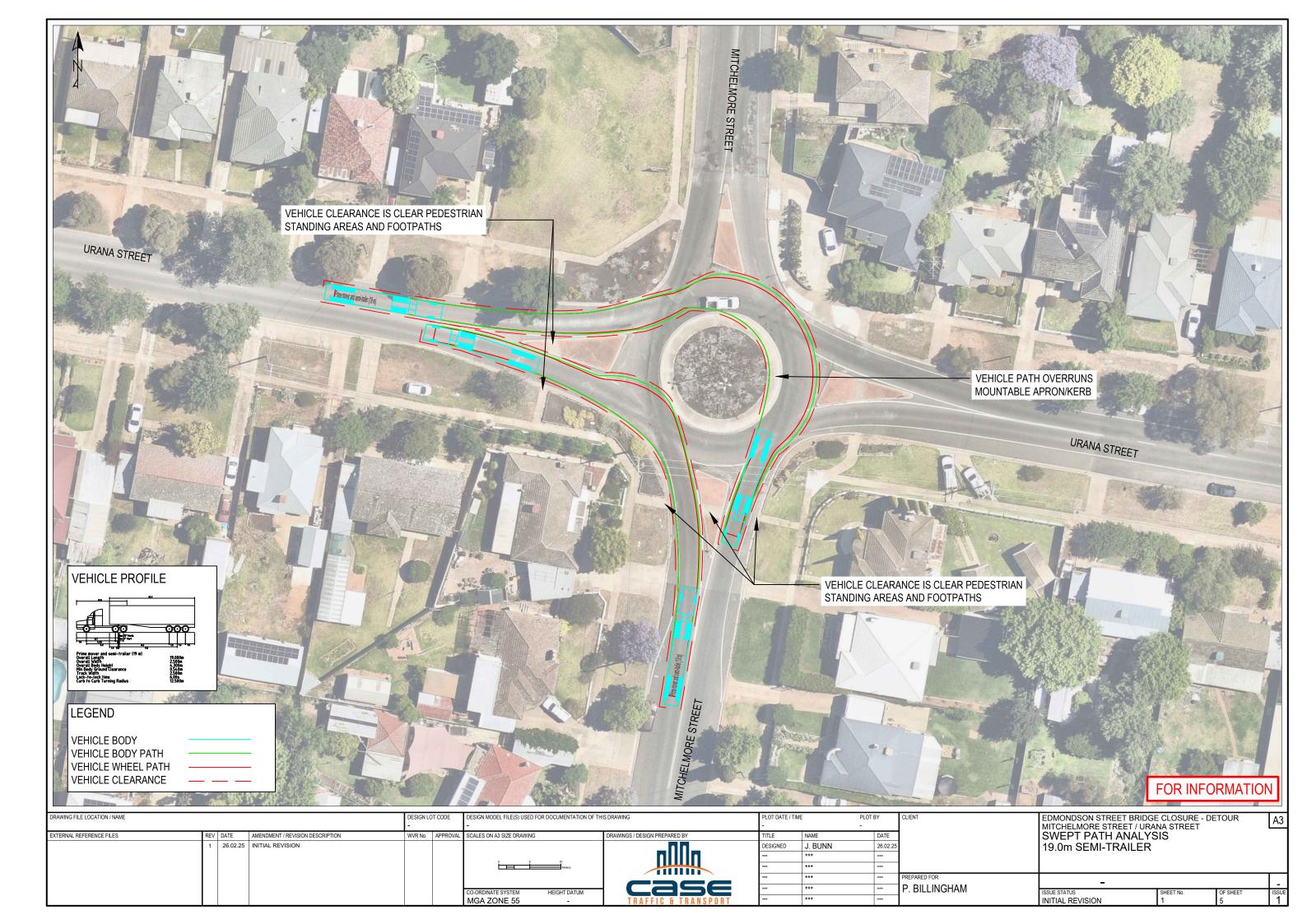




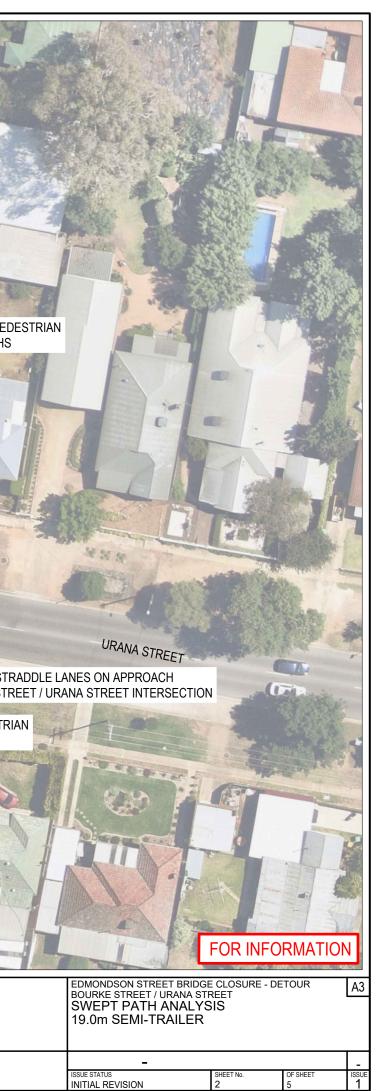


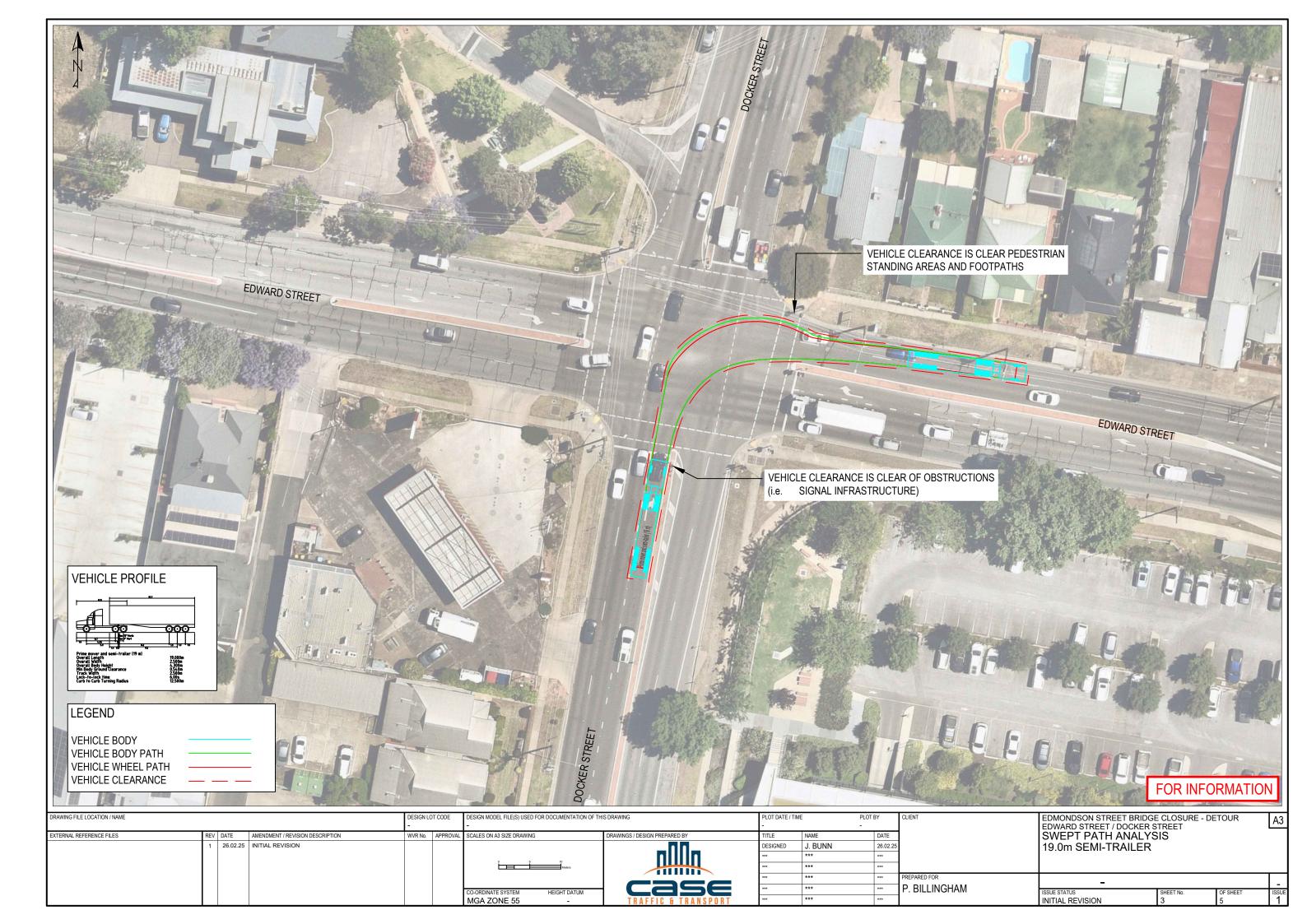


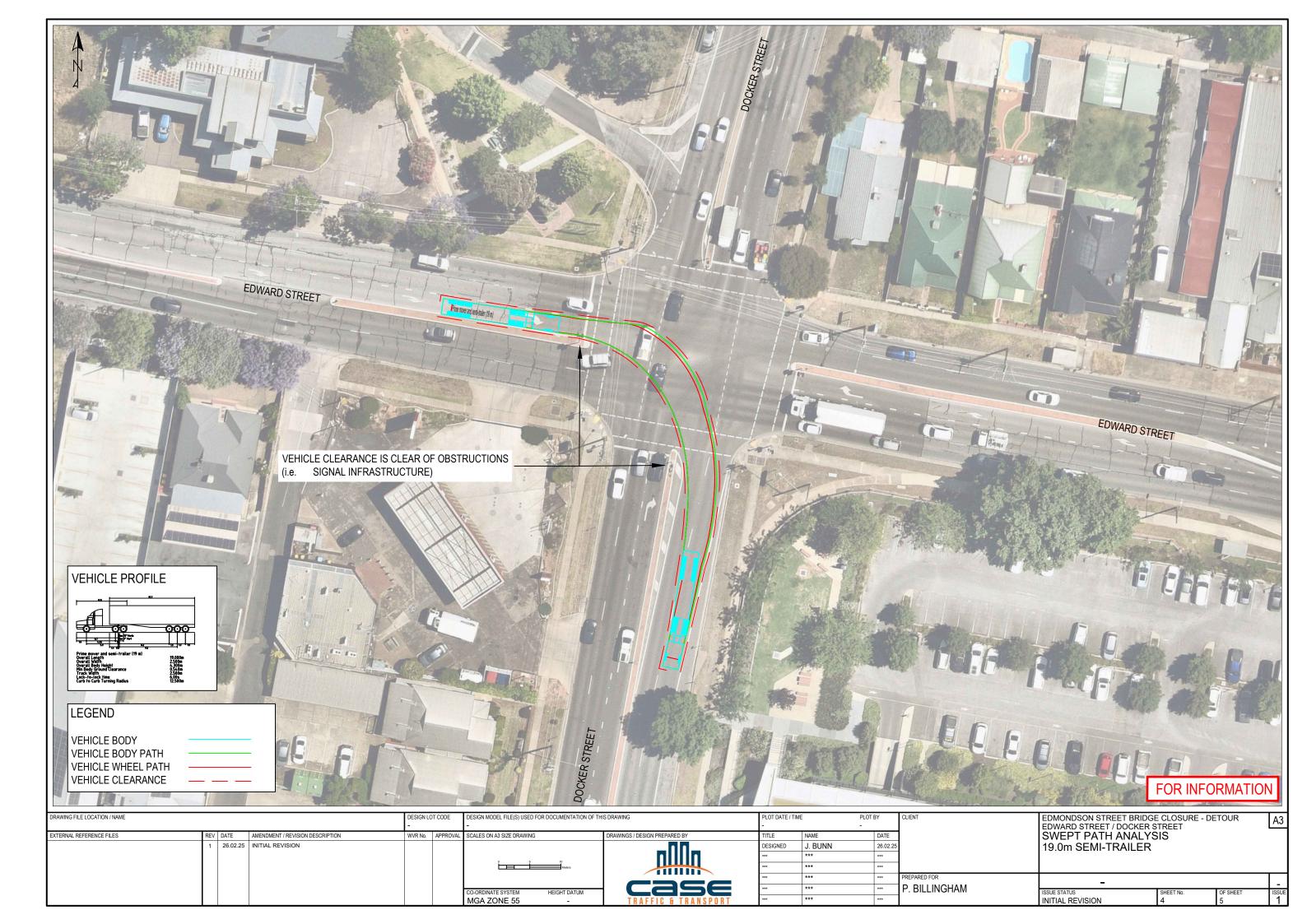


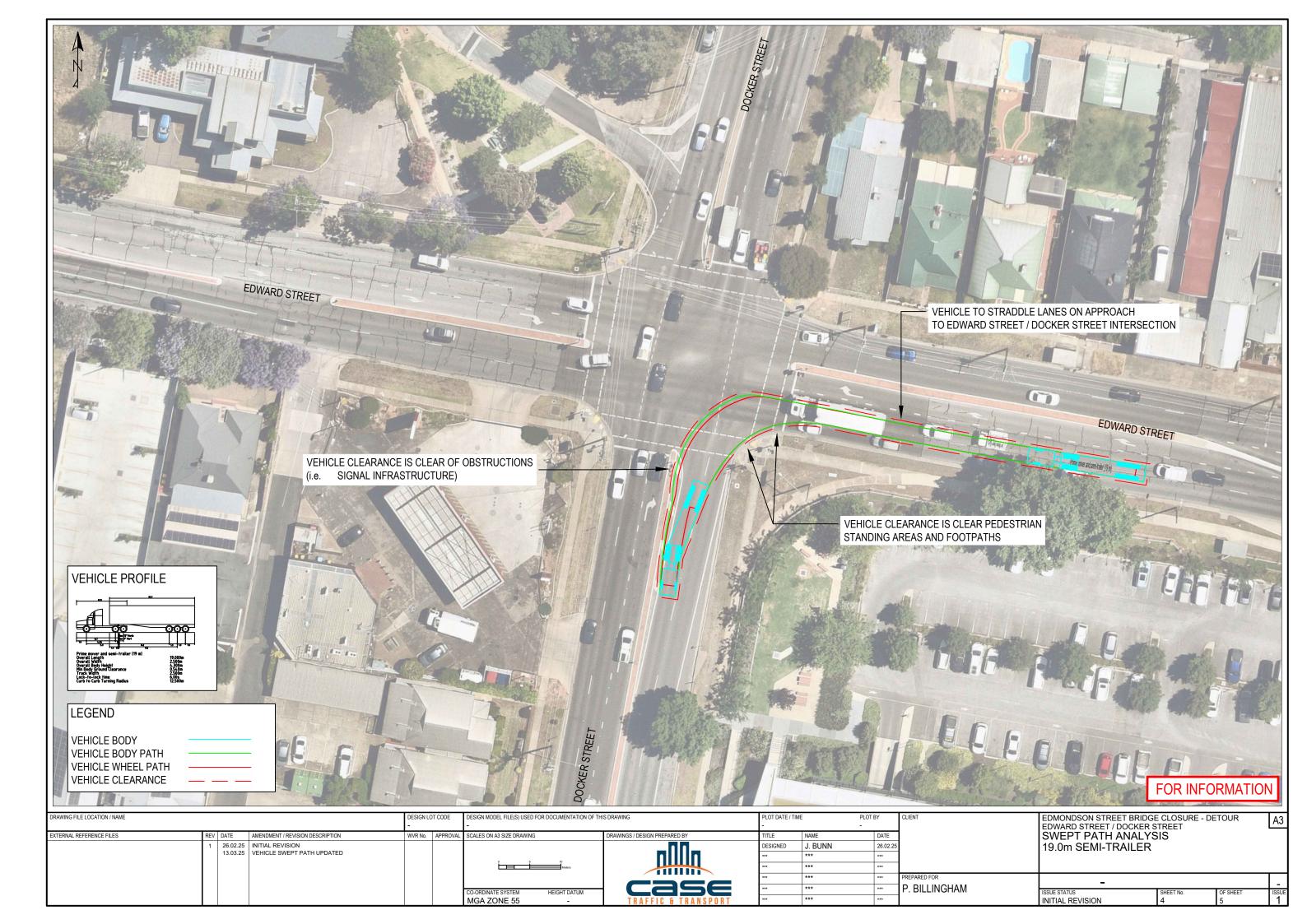


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