



Construction Traffic Management Plan

SMWSTCTP-AFJ-OLP-TF PLN 000001 Revision 06

Sydney Metro West Central Tunnelling Package





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1. INTRODUCTION

1.1 CTMP CHANGE SUMMARY

Throughout the duration of the project, updates to CTMPs may be required. These updates may result in changes to the CTMP to cater for changes in regulations, scope of work changes, or for other reasons to maintain the safe and efficient operation of the project. Changes associated with this revision are as detailed below, within Table 1.

TABLE 1: CTMP CHANGE SUMMARY

CTMP Revision	Date of Revision	Summary of changes
05	30/09/2024	This CTMP has been updated to Revision 05 to include detail associated with the use of Over Size Over Mass (OSOM) vehicles during the TBM removal This includes:
		Up to six movements 7.15 meters wide
		 Approximately 28 movements between 4.45 and 5.8 meters wide
		These OSOM movements will require traffic management to safely manage their movements, this includes:
		 Temporary occupation of 10 parking spaces on Herb Elliot Avenue for all 34 movements
		 Short term traffic control on Herb Elliot Avenue to facilitate movements into and out of the Sydney Olympic Park station site for the six 7.15m wide movements.
		 Short term traffic control to facilitate movements from Olympic Blvd onto Sarah Durack Avenue for movements that will not have a police escort. This area will be managed under police control for the 7 15m wide movements
		 Police control for movements from Homebush Bay Drive onto the Eastbound M4 Motorway for the six 7 15m wide movements.
06	20/10/2024	This CTMP has been updated to revision 06 to address comments raised by Sydney Olympic Park Authority on the Revision 05 submission

1 2 PROJECT BACKGROUND

The Sydney Metro West Central Tunnelling Package involves the construction of 11 5km of twin tunnel metro line from The Bays Precinct to Sydney Olympic Park, which will be connected with the Sydney Metro City & Southwest and double the rail capacity to/from Sydney CBD.



FIGURE 1: OVERVIEW OF SYDNEY METRO WEST



The Acciona Ferrovial Joint Venture (AFJV) will deliver the Project in partnership with NSW Government and Sydney Metro (SM)



2. PURPOSE AND SCOPE

2.1 PURPOSE

AFJV aims to maintain a safe environment for all road users by effectively maintaining traffic flows during the works and managing construction vehicles to/from the work sites

This site-specific Construction Traffic Management Plan (CTMP) has been prepared to meet the following requirements for Sydney Olympic Park metro station site as part of the Sydney Metro West Central Tunnelling Package (the Project):

- The Project's General Specifications Section 2.11, Section 5.1.11.1
- EIS Technical Paper 1 Stage 1 Traffic and Transport Mitigation Measures
- EIS Construction Traffic Management Plan Framework
- Minister for Planning and Public Spaces' Concept and Stage 1 Conditions of Approval (COA) for the State Significant Infrastructure (SSI 10038)

The scope of this CTMP is to detail the long and short-term traffic changes associated with the construction of Sydney Olympic Park metro station site. This CTMP and the documents referenced in the CTMP have been prepared in accordance with the relevant standards and guidelines.

AFJV will provide safety measures to a wide range of stakeholders potentially affected by the works including but not limited to motorists, pedestrians, cyclists, public transport users, local residents and property owners, business owners and workers/staff engaged on the Project.

2 2 OBJECTIVES

The primary objectives and principles of this CTMP are:

- Keeping traffic delays to a minimum
- Minimising disruption to businesses
- Minimising disturbance to the environment
- Ensuring traffic impacts are within the scope permitted by Transport for NSW (TfNSW), SM and Sydney Olympic Park Authority (SOPA)
- Ensure the safety of employees, contractors and road users
- Meet the requirements of the Project brief, project specifications, COA and TfNSW Traffic Control at Work Sites (TCaWS) Manual Issue 6 1 2022



3. EXISTING TRAFFIC CONDITIONS

3.1 EXISTING ROAD NETWORK

3.1.1 HOMEBUSH BAY DRIVE

Homebush Bay Drive is a classified state arterial road which forms part of the major north-south link across Parramatta River. Homebush Bay Drive is generally configured with three traffic lanes in each direction separated by a 2.5m wide central median. Parking is not permitted along both sides of the road. The posted speed limit of Homebush Bay Drive is 80km/h.

3 1 2 AUSTRALIA AVENUE

Australia Avenue is a major road through the Sydney Olympic Park precinct. Australia Avenue is a two-way road with two traffic lanes in each direction Parking is prohibited along both sides of the road The posted speed restriction on Australia Avenue is 60km/h

3.1.3 HERB ELLIOTT AVENUE

Herb Elliott Avenue is a SOPA road primarily serving access to commercial office buildings. Herb Elliott Avenue is a two lane, two-way road with a road carriageway width of approximately 13m Ticketed kerbside parking is available along both sides of the road. The posted speed restriction on Herb Elliott Avenue is 40km/h.

3 1 4 FIGTREE DRIVE

Figtree Drive is a minor road within the Sydney Olympic Park precinct serving access to existing commercial buildings and recreational facilities. Figtree Drive has a road carriageway width of approximately 7m to accommodate the eastbound and westbound travel lanes There are some sections of indented parallel parking bays for restricted parking (2P) along both sides of the road. The posted speed restriction on Figtree Drive is 40km/h.

3 1 5 OLYMPIC BOULEVARD

Olympic Boulevard is a north south road between Kevin Coombs Avenue and Shirley Strickland Avenue. Olympic Boulevard is configured with two lanes in each direction separated by a 4m wide central median between Dawn Fraser Avenue and Shirley Strickland Avenue From north of Dawn Fraser Avenue, Olympic Avenue is an undivided two-way road with a road carriageway width of approximately 18m. Parking is available within the marked and indented bays along both sides of the road

3.1.6 SARAH DURACK AVENUE

Sarah Durack Avenue is one of the main roads that bound the Sydney Olympic Park precinct. Sarah Durack Avenue is configured with two traffic lanes in each direction separated by a 4 5m wide central median in the east-west alignment Parking is prohibited along both sides of the road. In addition, there are on-road cycle lanes along the north and south sides of the road.

3.2 EXISTING TRAFFIC VOLUMES

The Environmental Impact Assessment of Sydney Metro West Stage 1 (Chapter 10 Transport and Traffic) documents the existing traffic volumes around the Sydney Olympic Park metro station construction site, as shown in Table 2.



TABLE 2: EXISTING TRAFFIC VOLUME (2019)

Road	Location	Direction	AM Peak Traffic Volume (vph)	PM Peak Traffic Volume (vph)
Homebush Bay	West of Australia	Eastbound	850	670
Drive Ramps	Avenue	Westbound	360	480
Australia Avenue	North of	Northbound	1,810	1,750
	Homebush Bay Drive	Southbound	1,300	1,800
	North of Figtree	Northbound	760	400
	Drive	Southbound	420	630
Herb Elliott	West of Australia Avenue	Eastbound	160	330
Avenue		Westbound	370	90
Figtree Drive	West of Australia	Eastbound	40	150
	Avenue	Westbound	230	20
Olympic	North of Sarah	Northbound	160	240
Boulevard Durack A	Durack Avenue	Southbound	140	290
Sarah Durack	West of Olympic	Eastbound	370	570
Avenue	Boulevard	Westbound	450	810

Reference: EIS

3 3 PUBLIC TRANSPORT NETWORK

The existing rail and bus service networks within the vicinity of the Sydney Olympic Park metro station construction site is shown in Figure 2. The nearby rail and bus route services are detailed in Table 3

The service frequencies are based on available bus and train timetables (and not conducted as a site count). They were summarised from the TfNSW app 'Trip View'

Typical Weekday Service Frequencies (No. of Services)

TABLE 3: PUBLIC TRANSPORT SERVICES AND FREQUENCIES

Interpeak AM Peak PM Peak Public Route Route (11:00am -(7:00am -Transport No. Description 9:00am) 1:00pm) (4:00pm 6:00pm) T7 Olympic Park 12 13 12 Rail to Lidcombe Bus 525 Parramatta to 5 8 6 Strathfield via Sydney Olympic Park 7 526 Burwood to 8 6 Rhodes Shopping Centre 11 533 4 11 Sydney Olympic Park

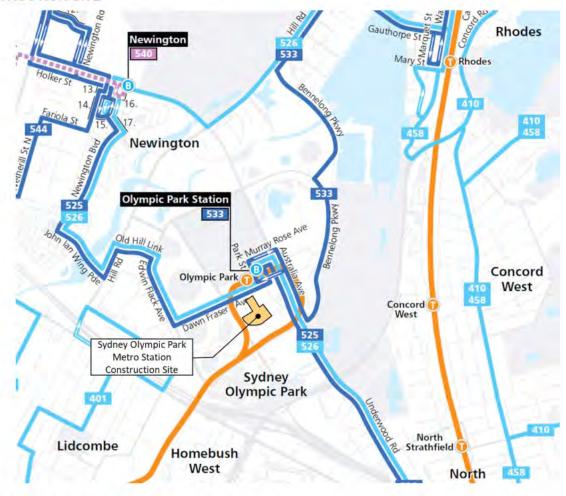
to Chatswood



Typical Weekday Service Frequencies (No. of Services)

Public	Route	Route	AM Peak (7:00am	Interpeak (11:00am	PM I	Peak
Transport	No.	Description	9:00am)	1:00pm)	(4:00pm	6:00pm)
		via Rhodes & North Ryde				

FIGURE 2: PUBLIC TRANSPORT NETWORK SURROUNDING SYDNEY OLYMPIC PARK METRO STATION CONSTRUCTION SITE



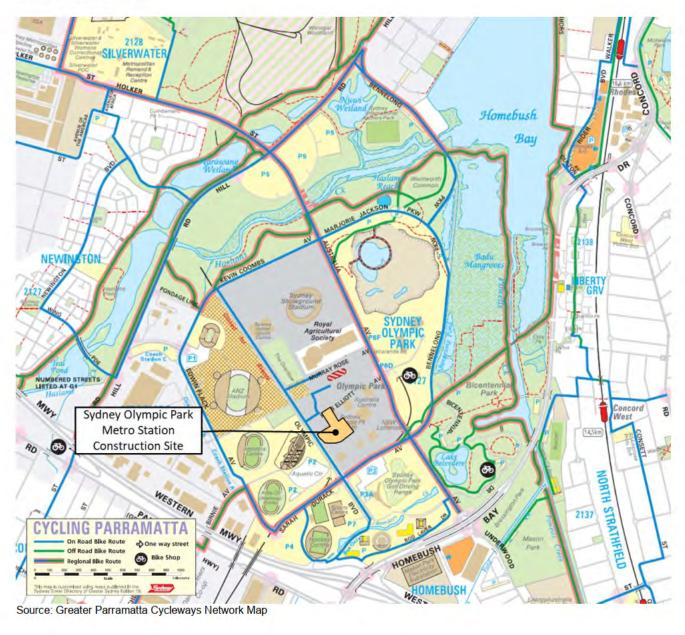
3.4 PEDESTRIAN AND CYCLIST NETWORK

Sydney Olympic Park is highly accessible and connected with footpaths and shared paths provided along both sides of all roads. In addition, there are on-road cycleways available on Australia Avenue, Kevin Coombs Avenue, Edwin Flack Avenue, Sarah Durack Avenue, Olympic Boulevard, Marjorie Jackson Parkway and Bennelong Parkway Further to this, there are shared paths available along the recreational and parkland areas within Sydney Olympic Park precinct.

The existing cycle network surrounding Sydney Olympic Park metro station construction site is shown in Figure 3



FIGURE 3: CYCLE NETWORK SURROUNDING SYDNEY OLYMPIC PARK METRO STATION CONSTRUCTION SITE





4. GENERAL CONSTRUCTION DETAILS

4.1 OVERVIEW OF CONSTRUCTION ACTIVITIES

The following construction activities have been undertaken in order to establish Sydney Olympic Park metro station construction site:

- Demolition of existing buildings within the site
- Excavation and construction of station box
- Construction of three separate on-site car parks accommodating a total of 63 car spaces and 10 motorcycle spaces
- Establishment of project office in the existing Sanyo building
- Construction of internal road including installation of weighbridge and wheel wash
- Installation of crib and office facilities
- Installation of site utility services (i e water treatment plant, sewer discharge point, portable water supply and switch board)
- Establishment of spoil storage area
- Construction of site access gates on Herb Elliott Avenue and Figtree Drive
- Removal of weighbridge and wheel wash at completion of bulk excavation

Following site establishment, bulk excavation works and completion of tunnelling, the site demobilisation phase of the project will commence, this will include:

- Removal of redundant site facilities, plant and material
- Removal of the TBMs
- Demolition of the remaining building that is currently used as the Project Delivery Office (PDO)
- Various rectification and finishing work to enable handover of the site to Sydney Metro or Sydney Metro's nominated follow-on contractor.

The Sydney Olympic Park metro station construction site layout is provided in Appendix A

An indicative construction program is shown as follows for the construction site:

- Site handover from 21 October 2021
- Demolition from January 2022
- Excavation from mid 2022
- Finish excavation late 2023
- Concrete work until January 2024
- TBM retrieval (started at The Bays metro station site) expected in late 2024.
- Demolition of the PDO office mid 2025

4 2 CONSTRUCTION WORKING HOURS

The proposed construction activities at Sydney Olympic Park metro station construction site would be carried out during the following working days and hours:

- Monday to Friday: 7:00am 6:00pm
- Saturday 8:00am 2:00pm

No construction work will be undertaken on Sundays and public holidays.



Works outside of these standard construction hours will occur on occasion These works will only occur following notification to residents, businesses, and stakeholders. Where applicable; times will be restricted to approved ROL times only.

4 3 HAULAGE ROUTES

The designated haulage routes to be used by large heavy vehicles are detailed below and shown in Figure 4. In addition to the standard haul routes an 'alternative route' has also been nominated. This alternative route is intended for use during events when road closures, and higher than normal vehicular and pedestrian traffic volumes are expected, or as otherwise agreed with SOPA. The alternative routes will not be used unless SOPA agree and/or advise that AFJV are to use the route.

The proposed haul routes are as follows:

- Inbound Routes
 - **Primary Route:** Homebush Bay Drive, Australian Avenue, Sarah Durack Avenue, Olympic Boulevard and Herb Elliott Drive
 - Alternative Route (EIS): Homebush Bay Drive, Australia Avenue and Herb Elliott Avenue
- Outbound Routes
 - Primary Route: Figtree Drive, Olympic Boulevard, Sarah Durack Avenue and Australia Avenue
 - Alternative Route (EIS): Herb Elliott Avenue, Australia Avenue and Homebush Bay Drive

RESTRICTED MOVEMENT:

This movement is only to be used when approved by AFJV.

This movement will only be approved on Event days, when control could from being used.

See page 1 for details—and AME

This movement is only to be used when approved by AFJV

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Figure 4: Proposed haul routes

A full copy of the vehicle movement plan can be found within Appendix C of this CTMP.

4.4 SITE ACCESS

The proposed site access gates as shown in Appendix B are detailed in Table 4



TABLE 4: SITE ACCESS AND EGRESS ARRANGEMENTS

Gate Number	Site Access to	Access and Egress Movements	Vehicle Type
SOP01	Loading area and AFJV car parks of Sydney Olympic Park metro station construction site	Left and right turn in and right turn out only via Herb Elliott Avenue	Truck and dogs, semi trailers, rigid vehicles and AFJV light vehicles
SOP02	Loading area and AFJV car parks of Sydney Olympic Park metro station construction site	Right turn out via Figtree Drive	Truck and dogs, semi trailers and rigid vehicles
SOP03	AFJV car park for project office	All movements via Figtree Drive	AFJV light vehicles

Gates SOP01 and SOP02 will be accessed by heavy vehicles. Gate SOP03 will be accessed by light vehicles for AFJV workers and staff travelling to/from the project office. All construction vehicles will enter and exit the site in a forward direction, if at anytime movements differ from the above, additional 'sub plans' to this CTMP will be developed in consultation with CJP and SOPA.

Sight distance checks have been conducted for the new, heavy vehicle driveways to verify suitability The sight distance checks are provided in Appendix F.

Traffic Control/Gate Keepers will be in place at site access and egress gates where heavy vehicles need to cross an active footpath. For frequent truck movements this role is expected to be fulfilled by a traffic controller and will entail them actively managing pedestrian movements with barricades or pedestrian gates. The traffic controllers and site staff will manage the opening and closing of site gates. To ensure trucks don't stay idling on the road or obstruct footpaths, the gates will remain open when the site is in operation and a gate keeper is in place.

4 4 1 SITE SAFETY CONTROLS

As a critical project risk is the interface of pedestrians crossing truck paths, additional controls will be employed at some site access points and intersections. These additional controls will be installed where truck volumes are expected to be high and/or pedestrian volumes are expected to be significant. These additional controls are proposed to include pavement stickers to alert pedestrians of truck awareness and where necessary will include additional Line Marking or signage to alert pedestrians of the presence of trucks accessing the sites.

A plan showing these additional controls and their locations is provided within Appendix B Further detail on the management of pedestrians and cyclists is also provided within Section 5.5.

4 5 OSOM MOVEMENTS & TBM REMOVAL

The site will require several heavy vehicle movements in and out during the project delivery and demobilisation phases. These will be to mobilise plant and equipment to site during the construction phase, and to demobilise plant, material and the tunnel boring machines (TBMs) after the tunnelling has been completed

TBMs will be the most significant activity requiring OSOM loads. To limit the impact of this activity (where practical), AFJV are planning to scrap the TBMs inside the Sydney Olympic Park site. This will mean:

- Many parts of the TBMs will be dismantled into smaller pieces before being loaded onto trucks and removed from site
- The quantity of Over Size Over Mass (OSOM) loads requiring special traffic management to facilitate the truck movements will be significantly reduced.



- The remaining OSOM movements that will require special traffic management is expected to consist of:
 - Six 7 5 meter wide movements
 - 28 wide loads ranging between 4.45m to 5.8m wide.
- Heavy vehicle movements will remain consistent with volumes listed within Section 5 2 of this CTMP and will not exceed volumes listed within the EIS
- No additional haul routes outside of those already approved, will be required for these movements

The special traffic management for OSOM movements associated with TBM demobilisation is detailed within Section 5.10. An overview is also provided below within Figure 5 showing the proposed haul routes and areas where temporary traffic management will be installed during these OSOM movements.

Swept Path Analysis for these oversize movements will be provided within the Transport Management Plan (completed separate to this CTMP) Movements will not occur until Swept Path Analysis has been completed and the Transport Management Plan has been approved (approval pathway separate to this CTMP). This will ensure that movements can be completed safely and successfully,

Once the OSOM loads are on the M4 Motorway, the movements will continue to M7 Motorway > M2 Motorway, Pennant Hills Road > M1 Motorway > to Newcastle. The 7.15m wide movements will remain under police escort until reaching their destination

All OSOM loads will be assessed, with applications submitted via the relevant transport company closer to the date for any required permits and approvals. If during the assessment of these movements the need for additional traffic management is required, this will be raised with the Traffic Coordination Group (TCG) along with plans drafted and permits applied for/approved before any movement takes place

It is noted that Sydney Olympic Park Authority is the relevant road authority for:

- Herb Elliot Avenue
- Olympic Boulevard, and;
- Sarah Durack Avenue

The relevant permits (SOPA work permit & SOPA Road Occupancy Permit) will be applied for. The movement of these OSOM loads and associated traffic management will only be installed in accordance with the approved permits. It is also acknowledged that there will be associated fees and charges in accordance with SOPA's Fees and Charges 2024-25.



Temporary Traffic Management Reserve parking spaces
 Intermittent traffic stops to facilitate OSOM movement OSOM HAUL ROUTE from site Olympic Park Snap Fitness Treillage Tower 📵 Temporary Traffic Management: 1. Eastbound & Westbound lane closure 2. Eastbound & Westbound intermittent traffic stop to facilitate OSOM movement from Olympic Blvd to Sarah Durack Ave Sapporo Sushi Bar Lidcombe Korean Fried Chicken - Sushi Acacia Transport O Tennis-World Sydney Olympic Park Ken Ro DFO Homebush Intersection under short-term police control 1. Remove bollards at entry to M4 Motorway 2. Police manage intersection during OSOM movement from Homebush Bay Drive to M4 3. Bollards re-installed following OSOM movement

Figure 5: Overview of OSOM route for TBM demobilisation

4.6 INTERNAL SITE MANAGEMENT

Internal site management will be planned and managed by site construction staff, and is subject to change to suit works. The general principles that will govern the internal movements will be:

- Separate light and heavy vehicle movements
- Provide separated pedestrian accesses
- Where practical, provide physical barricades or segregated pedestrian walkways

This is to ensure minimal interface with heavy plant and trucks and maximise safety for workers.



5. CONSTRUCTION TRAFFIC AND TRANSPORT MANAGEMENT

5.1 LONG TERM TRAFFIC CHANGES

The following long term traffic changes have been installed at the Olympic Park metro station construction site:

- Widening of the driveway on Figtree Drive
- Widening of the driveway on Herb Elliott Avenue
- Installation of truck symbolic signage

The widening of the driveways is to better accommodate the turning movements of the largest vehicle (19m truck and dog and semi-trailer) into and out of the construction site. The swept path assessment as shown in Appendix D for typical construction vehicles indicate sufficient clearance could be provided at these heavy vehicle driveways.

Any changes in access and egress arrangements will be detailed within a Vehicle Movement Plan (VMP) and sent to SOPA for review

5.2 CONSTRUCTION TRAFFIC VOLUMES

The proposed construction activities will generate 306 heavy vehicle movements (arrival and departure) per day during the peak construction activities for spoil removal. These heavy vehicle movements involve 19m long truck and dogs and semi trailers. Following completion of tunnelling and during the demobilisation phase of the site, heavy vehicle volumes are expected to be much lower.

The total daily and peak hourly heavy vehicle volumes would be no more than the EIS. A breakdown is shown below within Table 4, with an hourly breakdown within Table 5.

A workforce of up to 70 construction contractors plus additional office staff will be required on site at any one time. It is anticipated light traffic generation would be no more than the EIS estimate of 252 movements (2-way) per day.

TABLE 5: DAILY CONSTRUCTION TRAFFIC GENERATION

		ily Traffic ume		Hour Traffic lume	0 013 0 (2)4104.0	Hour Traffic
Trip Type	EIS	AFJV	EIS	AFJV	EIS	AFJV
Light vehicle	252	252	40	40	46	46
Heavy vehicle	306	306	8	8	8	8
Total	558	558	48	48	54	54

TABLE 6: SUMMERY OF PEAK HOURLY HEAVY VEHICLE MOVEMENTS

Expected hourly heavy vehicle volumes						
0700-0800	0800-0900	0900-1000	At all other times of site operation	1600-1700	1700-1800	total
8	8	8	Site movements as required, not exceeding daily total.	8	8	306

5 3 WORKFORCE PARKING

The Sydney Olympic Park metro station construction site will provide a number of parking spaces for AFJV and Sydney Metro staff. During the peak construction period, it is anticipated that there will be up to approximately 70 construction contractors plus additional office staff on site at any one time, the total workforce would be no more than the EIS figure of 340.



Full details of workforce parking arrangements can be found within the Construction Parking and Access Strategy (CPAS).

5.4 ON-STREET PARKING

The existing driveways have been widened, with no impact on the existing on-street parking on Figtree Drive and Herb Elliott Avenue.

Furthermore, the existing parking demand in the vicinity of the construction site was mostly generated by the existing commercial premises that were demolished, and hence the on street parking demand will reduce accordingly

It is noted that some parking spaces will be temporarily affected during the TBM removal activities. Affected parking spaces will only be occupied/removed in accordance with SOPA permits When occupying/removing parking spaces, AFJVs primary method includes:

- · Community notifications
- Advance warning, such as VMS and/or other static signage.
- Traffic Control to reserve the parking spaces as they become available
- Traffic hats and other devices as necessary to physically restrict motorists from parking in the affected spaces
- Consultation with SOPA to implement any additional controls such as changing regulatory signage (at SOPA's discretion)

AFJV will rely on the above methods and do not intend on towing any vehicles. It is however noted that SOPA (at their discretion) may use their authority to tow a vehicle if the need arises, this would only be considered as a last resort, within consultation with SOPA and in accordance with SOPA procedures (addressed outside the scope of this CTMP).

5.5 PEDESTRIANS AND CYCLISTS

Footpaths along the frontages of the construction site will be maintained at all times. At any time a worksite is open and being used by heavy vehicles, Traffic controllers will be stationed at the site access gates to assist and manage heavy vehicle and pedestrian movements

AFJV drivers are advised to be on alert for cyclists travelling along the haulage routes within Sydney Olympic Park. Additional Cyclist warning signage will be installed as detailed within AFJVCTP-TGS-0464, a copy of the TGS can be found within Appendix B.

During event days higher than normal pedestrian movements and various road closures are anticipated, The following controls will be implemented to mitigate the risks associated with the proposed haul routes.

- Truck drivers are to be toolboxed on the risks associated with pedestrians, cyclists and the need to report any concerns, near mises or incidents, to allow further investigation and continuous monitoring
- When instructed by SOPA and when there are road closures anticipated, the alternative routes outlined within section 4.3 of this CTMP will be used.
- During major event days consideration will be given to the deployment of additional Traffic Controllers along haul routes and locations deemed necessary. This will only occur following consultation with SOPA.
- Additional Traffic Management will be in place during movement of the OSOM loads during TBM removal, this will include
 - o Pilot vehicles for all OSOM movements detailed within this CTMP
 - Police escort during the 7 15m wide movements
 - Additional traffic control at key locations in accordance with TGSs and SOPA permits



5 6 PUBLIC TRANSPORT

The proposed construction activities and operation of the construction site will not impact the surrounding public transport services.

5 7 ACCESS TO LOCAL PROPERTIES, BUSINESSES AND UTILITIES

Access to all neighbouring properties and businesses in the vicinity of Sydney Olympic Park metro station construction site will be maintained at all times.

Access to all utilities will be maintained during construction unless agreed with the relevant utility owner, landowner or occupier.

Local residents and businesses will be notified of any proposed traffic changes at least two weeks prior to the works.

5 8 SPECIAL EVENTS

Traffic management measures such as temporary road closures may be implemented for major events AFJV will communicate with SOPA to ensure that the disturbance between the proposed construction activities and major events are minimal

Current major events which may affect works are listed below, noting that most events in the evening or which have a short duration have been omitted as they are not expected to have an impact on the operation of site.

- Music concerts such as Coldplay in Early November 2024
- Major Sporting Events
- Music Festivals

It is noted the proximity of the Figtree intersection to the bus zones on Olympic Boulevarde and additional controls may be warranted during key events with increased bus and pedestrian movements in the area (in addition to existing, proposed driveway controls)

On-going consultation will also be maintained with SOPA to identify any events that may impact on the proposed construction activities and traffic management detailed within this CTMP.

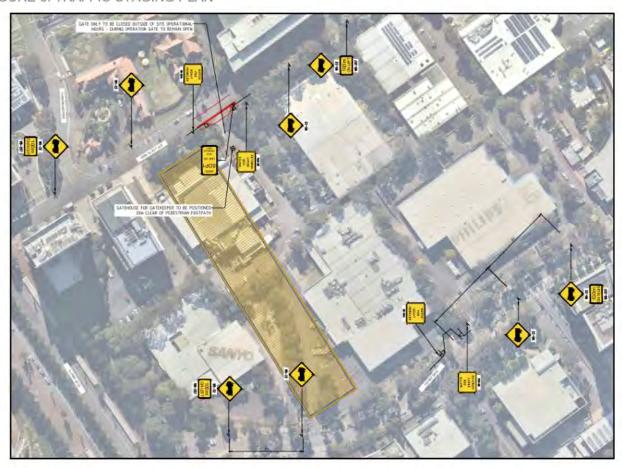
Reference: https://www.sydneyolympicpark.com/au/Whats-On/Events (last viewed on 16/11/2021)

5 9 TRAFFIC STAGING PLAN

A Traffic Staging Plan has been prepared to detail the proposed traffic management measure for the construction site with appropriate signage on approach to the site including truck warning signs and distance plates as shown below and a full copy provided in Appendix B. Where signs are positioned over a footpath or shared path, signs will be mounted at a height of 2 5m. All signs proposed in Sydney Olympic Park will be no smaller than A size, based on the guidance of Appendix B of AS1742 2. They will be installed to meet the criteria of Appendix D of AS 1742 2 for orientation and offset



FIGURE 6: TRAFFIC STAGING PLAN



5.10 SHORT-TERM TRAFFIC MANAGEMENT & TRAFFIC GUIDANCE SCHEMES

During TBM demobilisation, temporary traffic management will be required to safely manage OSOM movements at key locations This includes

- Herb Elliot Avenue Reserve parking, intermittent traffic stops when 7.15m OSOM movements leave the Sydney Olympic Park station site.
- 2 Sarah Durack Avenue Close one lane in both eastbound and westbound directions, intermittent traffic stop when OSOM movement turns from Olympic Blvd to Sarah Durack Avenue This road will be managed under police control during the 7 15m wide movements
- 3 Homebush Bay Drive intersection with M4 Motorway Remove bollards to facilitate OSOM movement from Homebush Bay Drive onto the M4 Motorway, Intersection will be under Police control during the 7.15m wide movements.

Traffic Guidance Schemes (TGSs) have been developed to detail these arrangements A full copy of each TGSs is provided within Appendix G.

It is noted that Sydney Olympic Park Authority is the relevant road authority for:

- Herb Elliot Avenue
- Olympic Boulevard, and;
- Sarah Durack Avenue

The relevant permits (SOPA work permit & SOPA Road Occupancy Permit) will be applied for The movement of these OSOM loads and associated traffic management will only be installed in accordance with the approved permits. It is also acknowledged that there will be associated fees and charges in accordance with SOPA's Fees and Charges 2024 25



5 11 INSPECTIONS

On-site inspection and monitoring the impact of this CTMP and Traffic Staging Plan will be undertaken regularly.

All long-term traffic management arrangements will be inspected at frequencies outlined within the Overarching Construction Traffic Management Plan and in accordance with the TCAWS Issue 6.1. any issues identified will be rectified. Where they pose a risk to public safety, they will be rectified as soon as possible Minor issues will be recorded and may be rectified at a later date so the works are more efficient. As an example, a signpost which is protruding onto a footpath or onto the road will be rectified and made safe immediately and reinstated as soon as practically possible after. Sign discolouration or a reflector missing may be rectified at the next available traffic control works in the area.

Any issues raised by stakeholders (including the public) will also be inspected and addressed as outlined above

Where traffic control deficiencies are identified through inspections, this CTMP and associated TGS will be amended, as required, by the Traffic Manager All identified issues and status of rectification will be documented in the issues register. The issues register will be issued to Sydney Metro on request.

5 12 ROAD SAFETY AUDIT

A road safety audit has been conducted by a suitably qualified and independent auditor with Level 3 certification and another auditor with Level 2 or higher certification.

A desktop road safety audit has been conducted on the proposed site arrangement plan (included in Appendix B The audit report is included in Appendix E

A post-opening audit will be conducted once signs are installed and driveways have been constructed. Where road safety deficiencies are identified through the audit, the relevant design/implementation will be amended to address the deficiencies, where required

5,12.1 DRIVER TRAINING

Heavy vehicle drivers shall be made fully aware of the traffic management arrangements within and surrounding the site. All drivers will be informed of all site access gates and the access requirements including specific heavy vehicle driver training to ensure the following:

- Appropriate procedures for accessing the site
- Drivers shall adhere to the nominated site access routes mentioned in Section 4 3
- Drivers are to be cautious to other road users (pedestrians and cyclists) travelling past the sites
- Drivers shall be aware of the speed restrictions along the site access routes, and
- Queuing and truck marshalling is to be wholly contained within the site (not in public spaces)

Trucking contractors will be provided training summaries to distribute among their drivers prior to attending site. Additional documentation will be provided to gatekeepers so they can be disseminated to trucks entering the site Repeat noncompliance with the requirements will be flagged and escalated with the company to re-educate the drivers or replace them.



6. COMPLIANCE MANAGEMENT

6.1 ROLES AND RESPONSIBILITIES

The AFJV project team's organisational structure and key roles and responsibilities for managing traffic and transport relating to the construction activities and construction personnel are summarised in Table 7.

TABLE 7: AFJV ROLES AND RESPONSIBILITIES

Roles	Responsibilities		
Project Wide Construction Manager	 Reports to the Project Director as part of the Project Management Team. 		
	 Accountable for the overall construction delivery of the Surface Works. 		
	 Directs the Traffic Manager and ensures work is prioritised to ensure safety of all road users, the community and construction personnel. 		
Project Manager	 Reports to the Construction Director as part of the Project Management Team 		
	 Accountable for the overall construction of the Surface Works 		
	 Directs the Traffic Manager to prioritise work for the safety of road users, community and construction personnel 		
Traffic Manager	 Reports to the Project Wide Construction Manager. 		
	 Leads the traffic management team. 		
	 Implements the CTMP and ensure it is followed. 		
	 Ensures risk assessments are done. 		
	 Reviews Construction Traffic Management Plans (CTMPs)/ Traffic Guidance Schemes (TGSs or formerly known as Traffic Control Plans)/ Road Occupancy Licence (ROLs) prior to submission to the stakeholders. 		
	 Ensures that sub-contractors meet the requirements of the CTMP. 		
	 Defines the requirements for traffic management and ensures that they are satisfied through spot checks and audits. 		
Traffic Advisor	 Reports to the Traffic Manager. 		
	 Develops CTMP/ TGS/ ROL submission. 		
	 Ensures that long-term layouts are implemented in accordance with the CTMP/ TGS/ ROL, are safe and are maintained appropriately. 		

6.2 TRAFFIC AND TRANSPORT LIAISON GROUP

AFJV Traffic Manager will present at the monthly Traffic and Transport Liaison Group (TTLG) meetings for the Project. The TTLG will primarily include representatives from:

Sydney Metro Delivery Office



- Transport for NSW (TfNSW)
- Customer Journey Management (formerly known as TMC)
- Customer Journey Planning (formerly known as SCO)
- NSW Police
- Sydney Olympic Park Authority (SOPA)
- Representative of any other authority or road user group affected by the Project.

The AFJV Traffic Manager is a member of the TTLG and will act as the authorised representative for the Project in matters related to traffic and transport. The AFJV Traffic Manager provides the following information and related updates to the TTLG:

- Construction site operations and activities
- Traffic operations, including changes in local road network
- Community concerns and comments or feedback
- Issues relating to pedestrians and cyclists or mobility impaired road users

6.3 COORDINATION WITH ADJACENT PROJECTS

The Parramatta Light Rail Stage 2 (PLRS2) is expected to commence during the construction of the CTP works at Olympic Park Once works commence on the PLRS2 regular coordination meetings will be held either as part of regular Traffic Coordination Group meetings, or separate interface meetings as necessary to ensure any works and vehicle movements are coordinated and wherever possible impacts minimised

6.4 COMMUNITY CONSULTATION

AFJV will continue to consult with businesses and the community around vehicle movements and any temporary interruption to parking by providing regular updates to the community. This will occur in accordance with the overview provided below within Table 8.

It's further noted that Sydney Olympic Park Authority also issues the community various notifications. For this reason, close contact will be maintained between AFJV and SOPA to ensure a coordinated approach to notifications and to avoid any conflicting information being issued.

TABLE 8: OVERVIEW OF COMMUNITY CONSULTATION

Timing	Description
Quarterly	An out of hours work lookahead is provided to the community, to advise of upcoming works that will be conducted outside of regular construction hours
Monthly	A monthly update is provided to the community to advise of upcoming works and parking changes
Weekly	A weekly notification is provided to the community to advise of works that will take place on the following week.
Minimum 48hrs in advance of parking changes	A VMS board will be installed on Herb Elliot Avenue to notify the public of the parking changes.
During works	The 24hr community hotline will remain available for members of the public requiring any assistance in relation to the project works



	Additional confute signage will be installed at the locations of parking changes, the signage will include the 24hr community hotline.
Other / ongoing	Site-based email and Sydney Metro Connect App updates will provide regular updates on progress of current out of hours vehicle movements, parking interruptions as well as upcoming work.



7. CONCLUSION

This CTMP has been prepared to document the proposed construction activities and operations at Sydney Olympic Park metro station construction site for the construction period between January 2022 and mid 2025. The CTMP details the management measures to mitigate the identified traffic and transport impacts that would occur.

Based on the findings of the CTMP, it is concluded that:

- The construction activities and operations at Sydney Olympic Park metro station construction site
 will generate the 306 heavy vehicle movements per day during the peak construction period
 between September 2022 and late 2023, volumes will be much lower following completion of
 bulk excavation.
- It is anticipated that up to 252 light vehicle movements per day will be generated in line with the EIS estimate
- Pedestrian and cyclist access past the construction site will be maintained at all times. AFJV
 drivers will be advised to be aware of cyclists travelling along the haulage routes.
- AFJV will communicate with SOPA to assist minimising disruptions of any major events held at Sydney Olympic Park.
- AFJV will conduct regular inspections and monitor the traffic management measures detailed in this CTMP Any deficiencies identified will be recorded and rectified accordingly
- Removal of TBMs for the station site will be conducted in a way to reduce the quantity of OSOM movements, for those that cannot be eliminated, traffic management will be installed as outlined within this CTMP

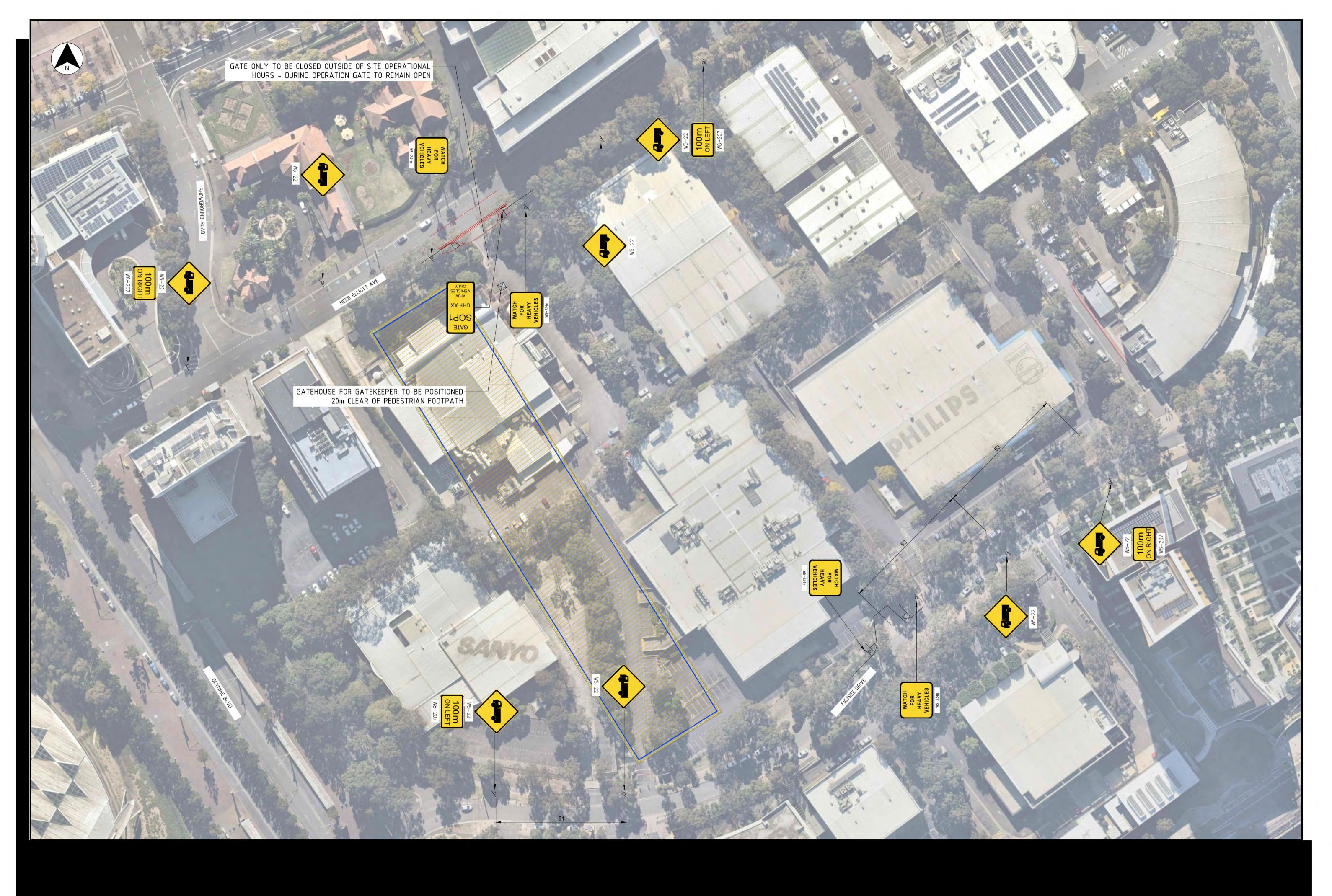


APPENDIX A – CONSTRUCTION SITE LAYOUT

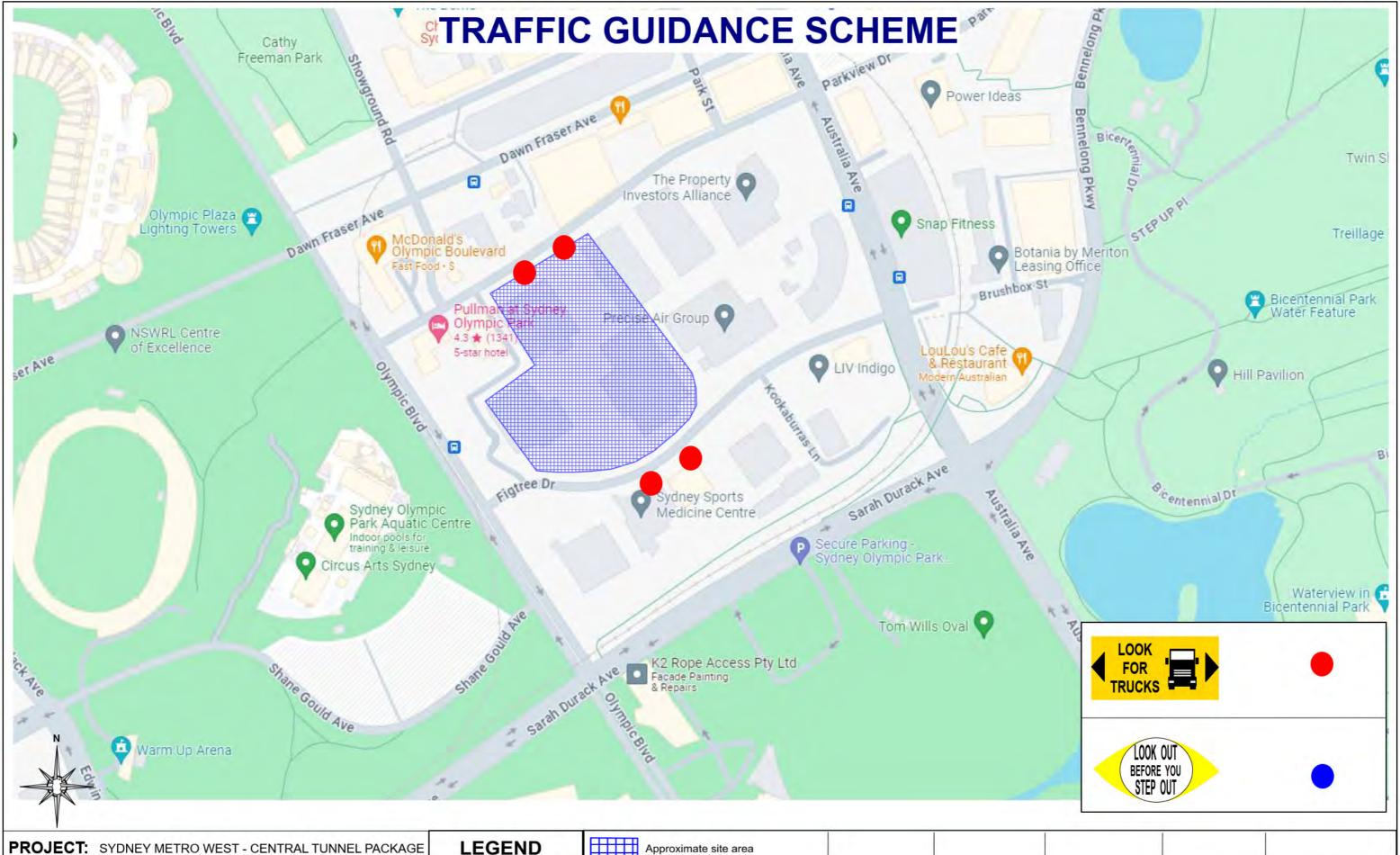




APPENDIX B – TRAFFIC STAGING PLAN & PEDESTRIAN CONTROL PLAN



Rev01



LEGEND



Author name



Date: 26/08/2024 Location:

- THE CONTRACTOR SHALL ENSURE ALL ROL AND SZA REQUIRMENTS ARE SATISFIED DURING IMPLEMENTATION OF THIS TGS ANY EXISTING SIGNAGE THAT CONFLIICTS WITH THIS TGS MUST BE COVERED AT THE START OF SHIFT AND UNCOVERED AT THE END OF SHIFT - ANY CHANGES REQUIRED, SPEAK TO THE SITE FOREMAN AND THEN MODIFY THIS PLAN IF NECESSARY. ANY CHANGES TO THIS PLAN SHALL BE
- MARKED ON THIS TGS & SIGNED OFF BY A PWZTMP HOLDER. · A LANE WIDTH OF 3.5m (MINIMUM) IS TO BE MAINTAINED AT ALL TIMES UNLESS NOTED OTHERWISE

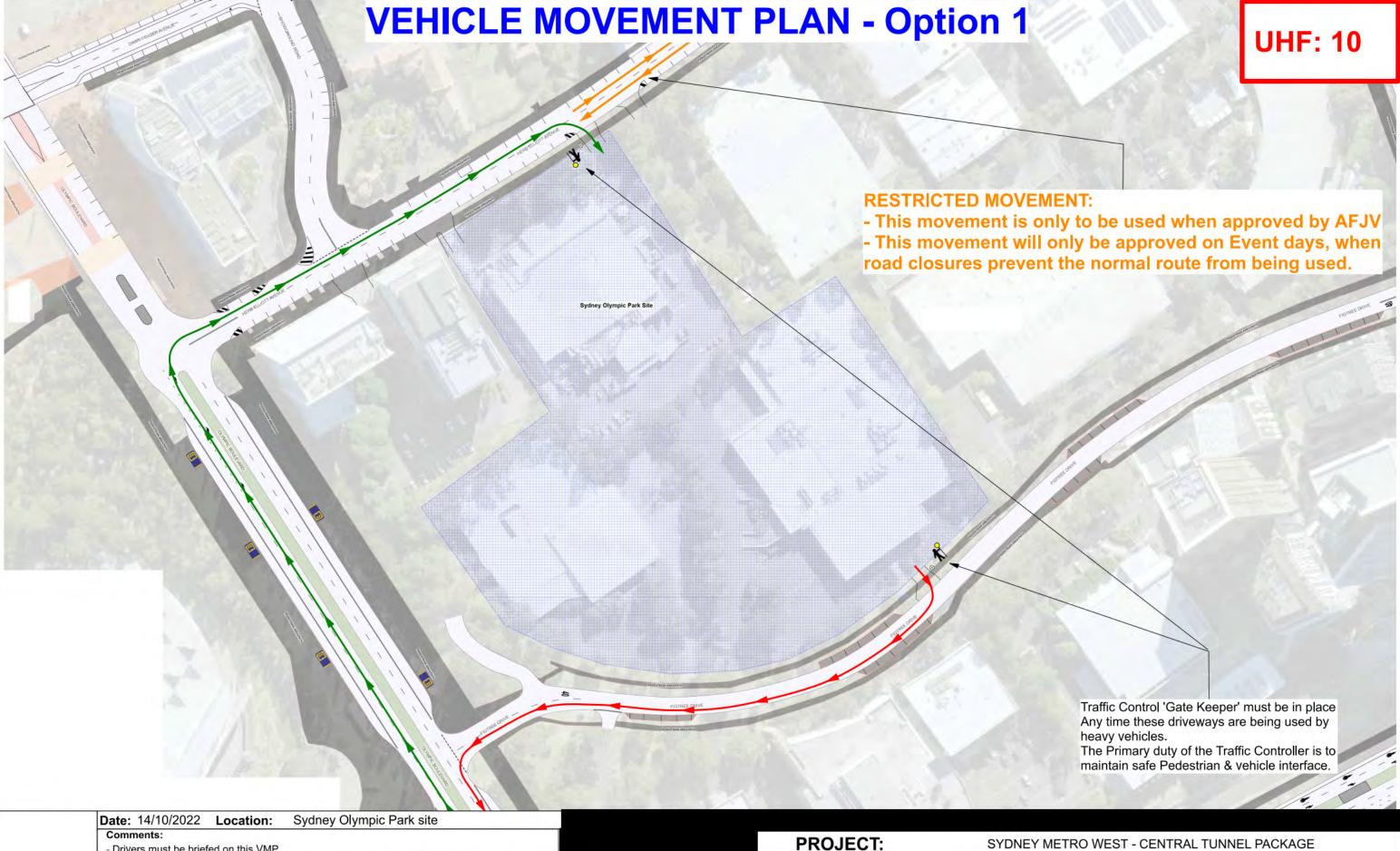
Sydney Olympic Park

- SHOULDER WIDTH / EDGE CLEARANCE TO TRAFFIC CONES OF 0.5m IS TO BE PROVIDED AT ALL TIMES UNLESS NOTED OTHERWISE

- DIMENSION 'D' IS DETERMINED IN ACCORDANCE WITH THE TCAWS MANUAL 2022 Issue 6.1
- BOLLARDS AND TRAFFIC CONES ARE TO BE INSTALLED IN ACCORDANCE WITH THE 2022 Issue 6.1
- TAPER LENGTHS ARE TO BE IN ACCORDANCE WITH THE TCAWS MANUAL 2022 Issue 6.1
- THE SITE MUST COMPLY WITH THE TCAWS MANUAL 2022 Issue 6.1 AND A.S. 1742.3 - REGULATORY SPEED / ROADWORK SIGNS TO BE REPEATED EVERY 400m UNLESS NOTED OTHERWISE



APPENDIX C - VEHICLE MOVEMENT PLANS





- Drivers must be briefed on this VMP
- Gatekeeper/s must be in position when gates are in use and the VMP requires it.
- Drivers must adhere to Gatekeepers directions
- Vehicles entering and exiting site must:
 - 1. Activate roof mounted beacons on approach
 - 2. radio intention via UHF

 - 5. Exit with caution, ensuring the safety of pedestrian and other road users
 - 6. Disable roof mounted beacons after egress and speed has reached normal traffic flow.
- Use only approved haul routes





- 2. radio intention via UHF
- 3. Indicate intensions
- 5. Exit with caution, ensuring the safety of pedestrian and other road users
- 6. Disable roof mounted beacons after egress and speed has reached normal traffic flow.
- Use only approved haul; routes





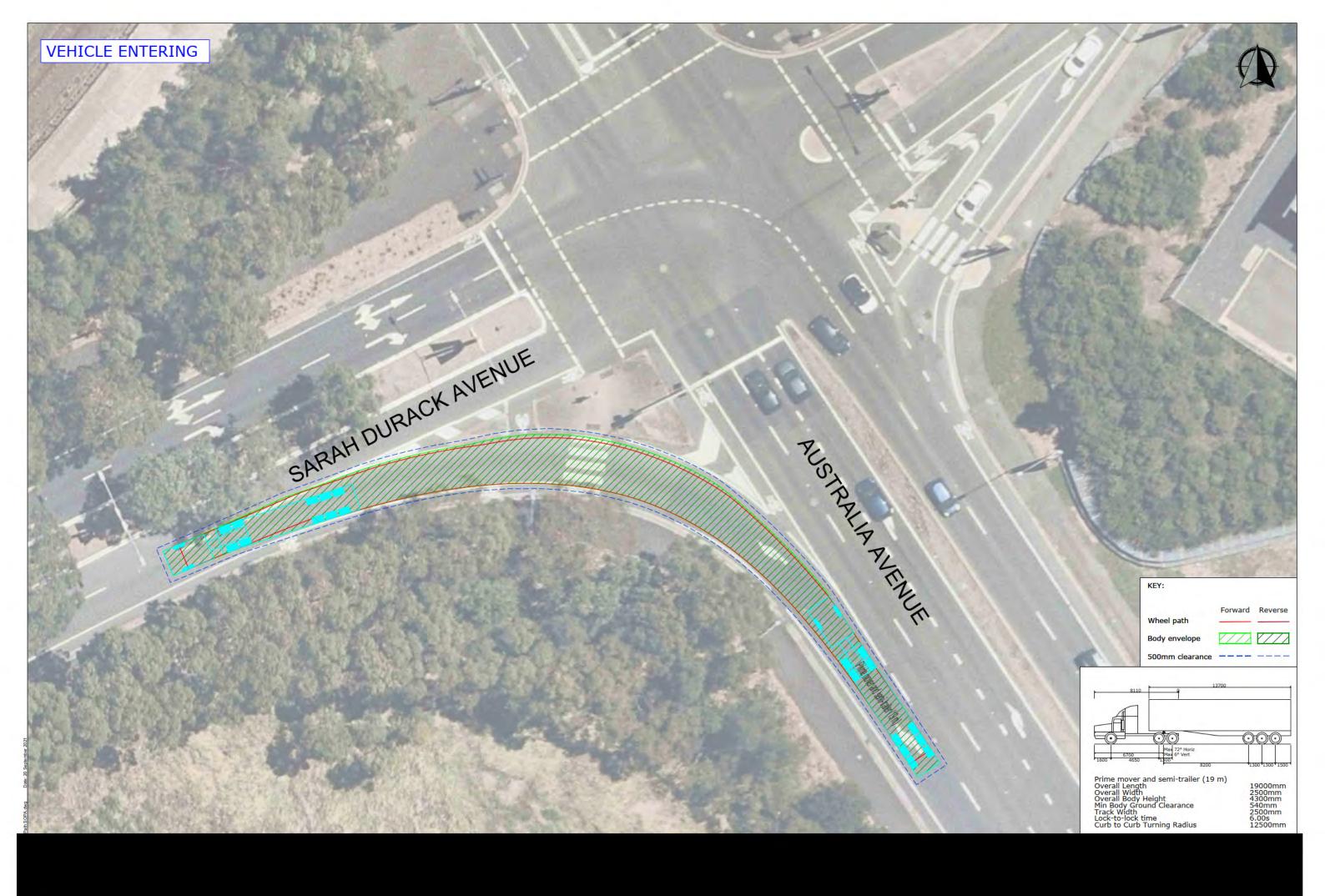
- 3. Indicate intensions4. Turn into/out of site
- 5. Exit with caution, ensuring the safety of pedestrian and other road users6. Disable roof mounted beacons after egress and speed has reached normal traffic flow.
- 7. follow all road rules and speed limits.
- Use only approved haul; routes

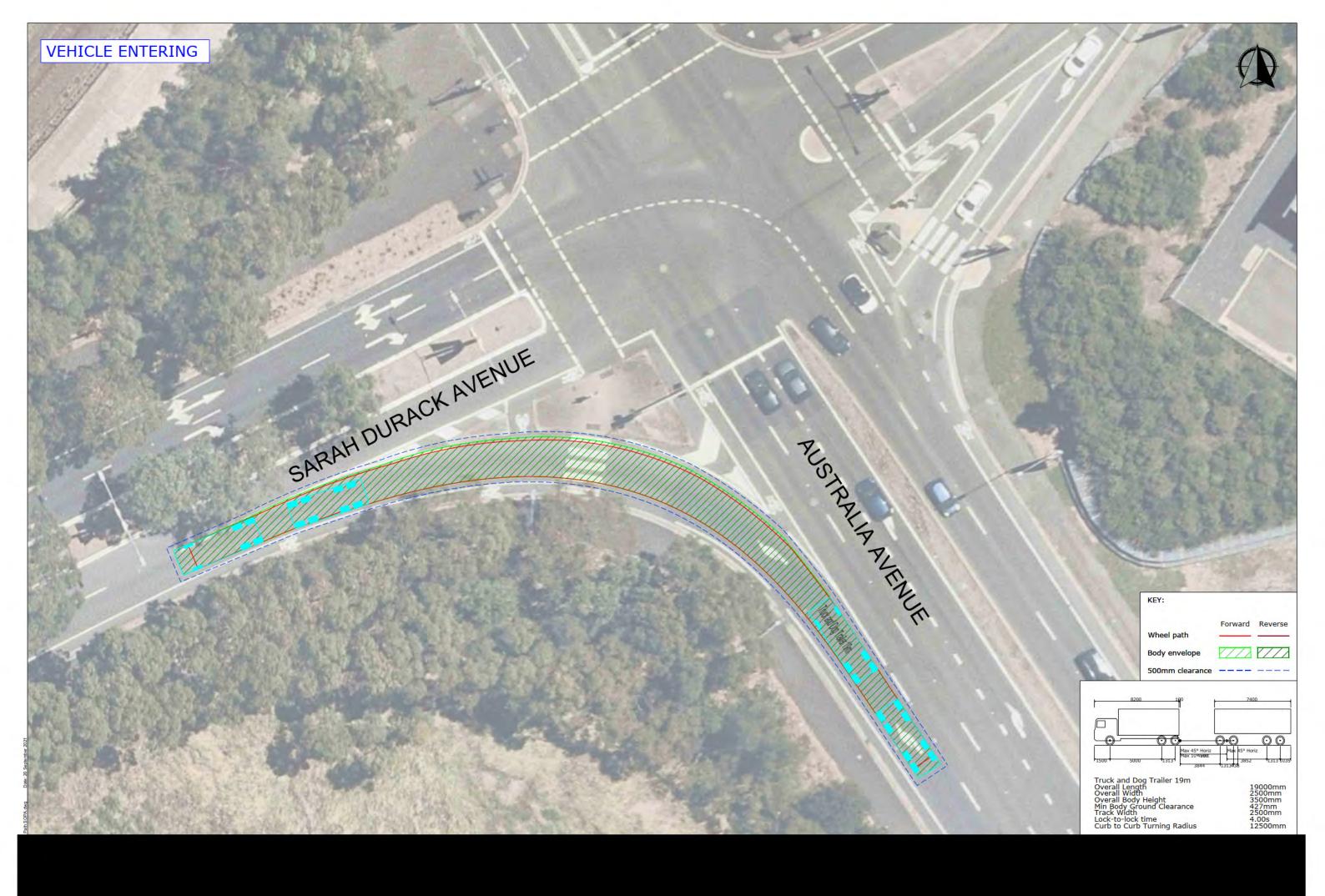


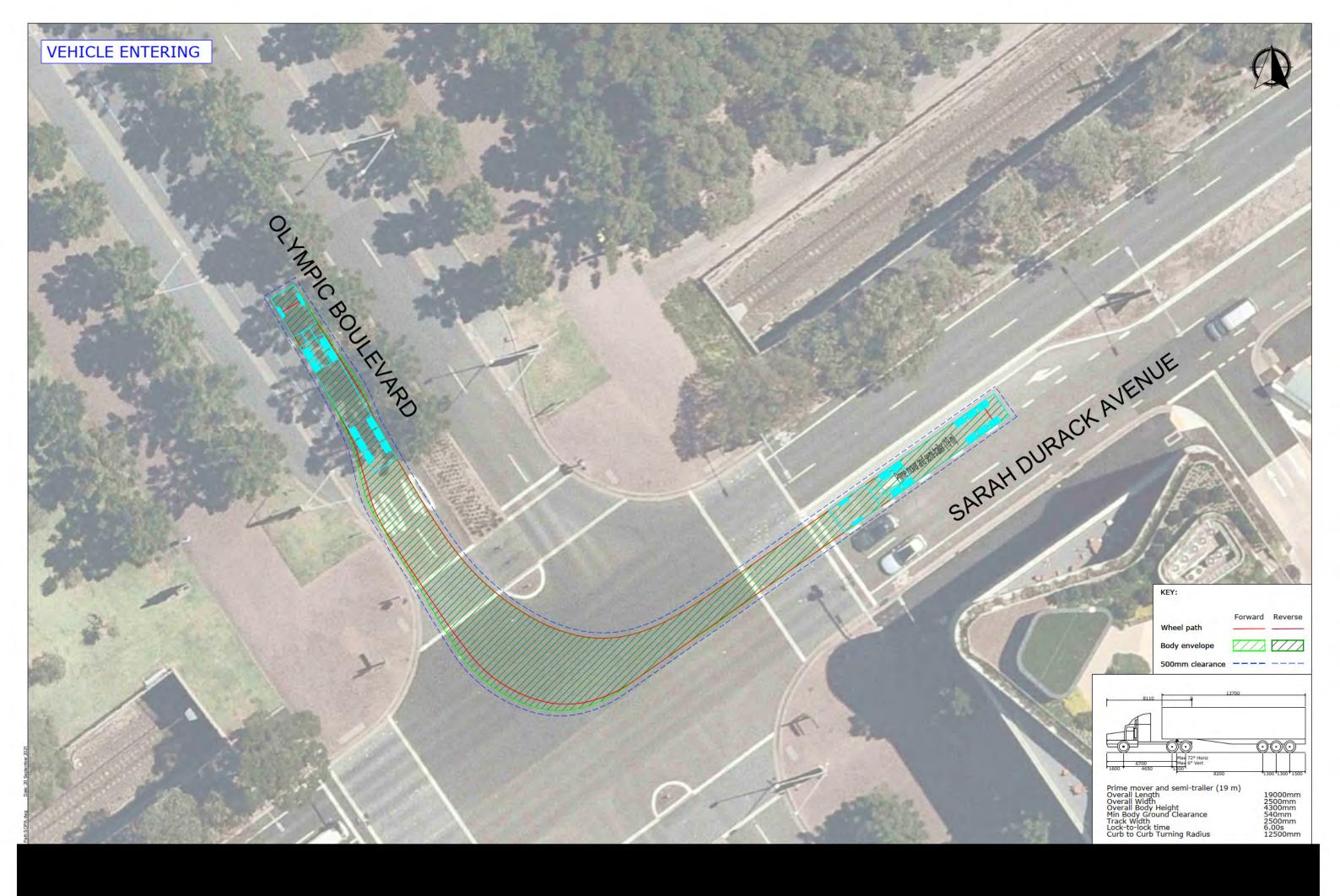
Egress

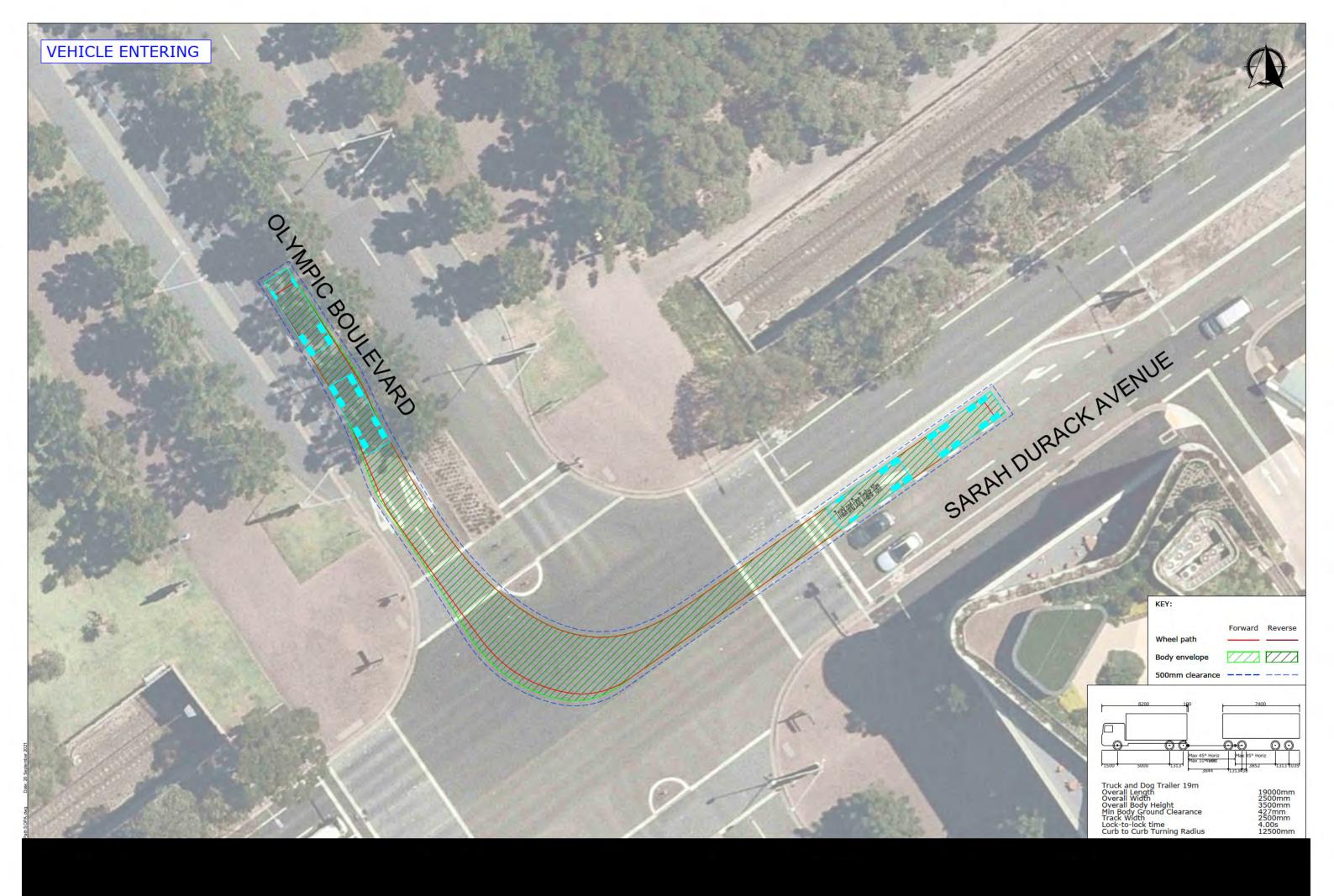


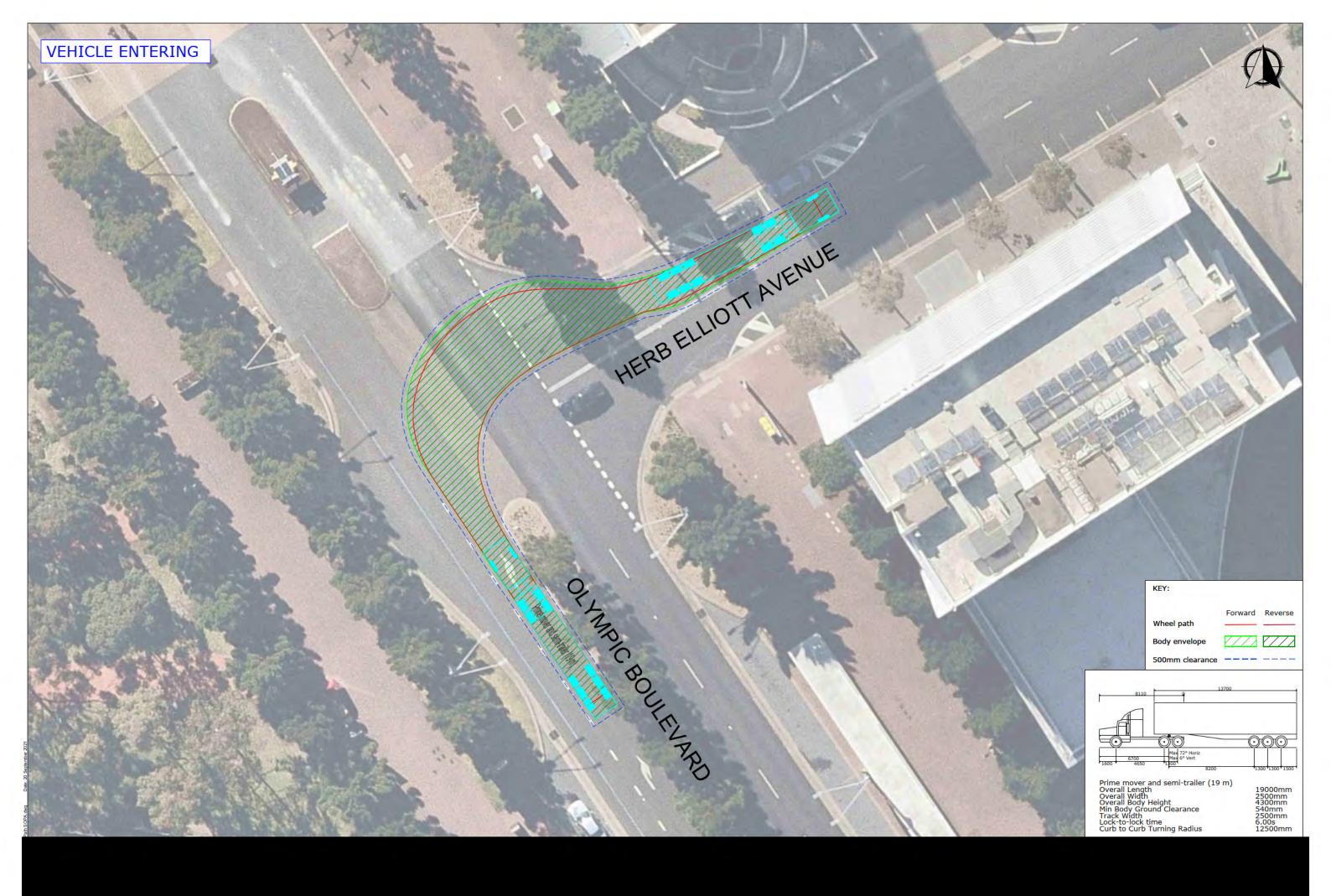
APPENDIX D – HEAVY VEHICLE TURN PATHS FOR TYPICAL CONSTRUCTION VEHICLE MOVEMENTS

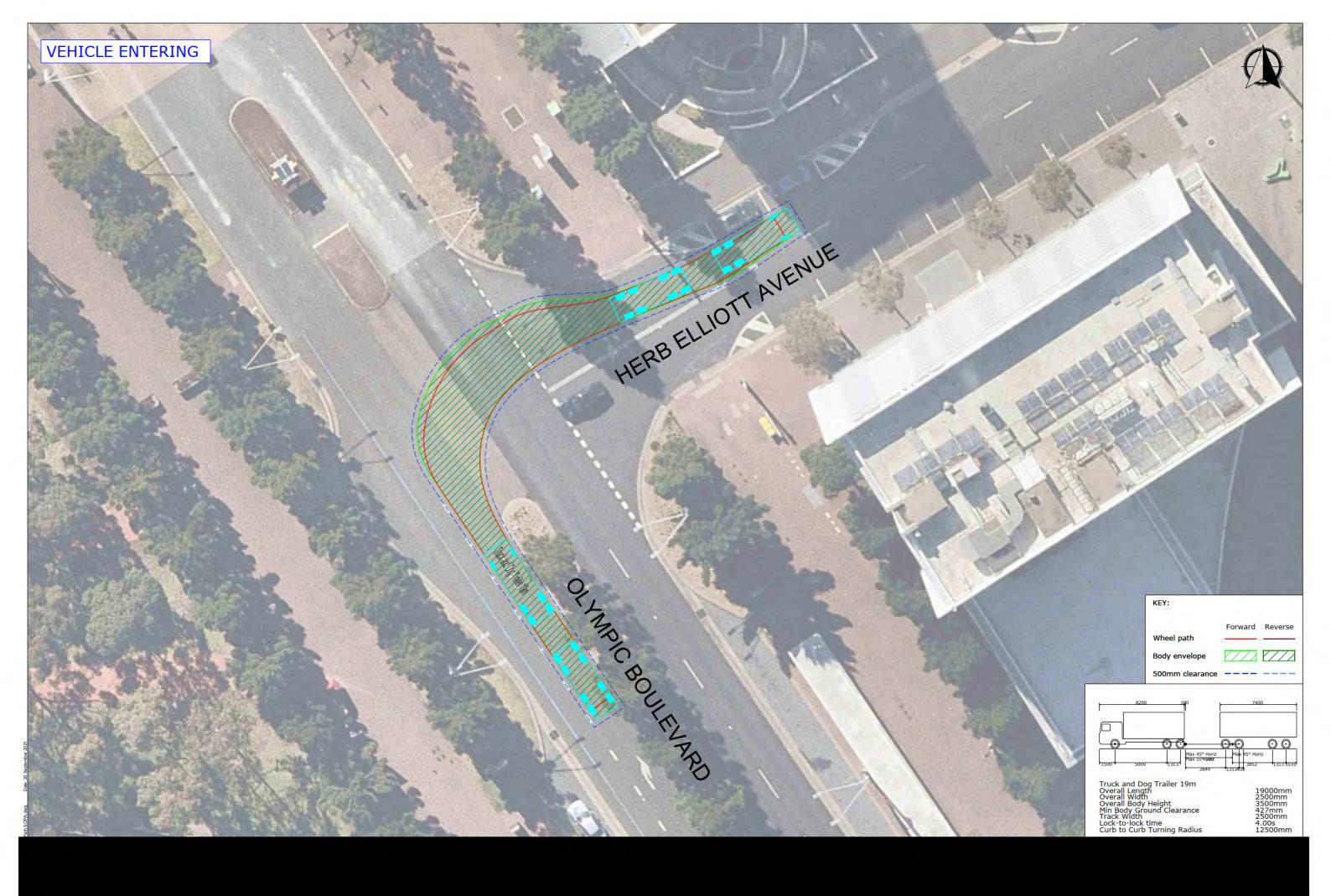






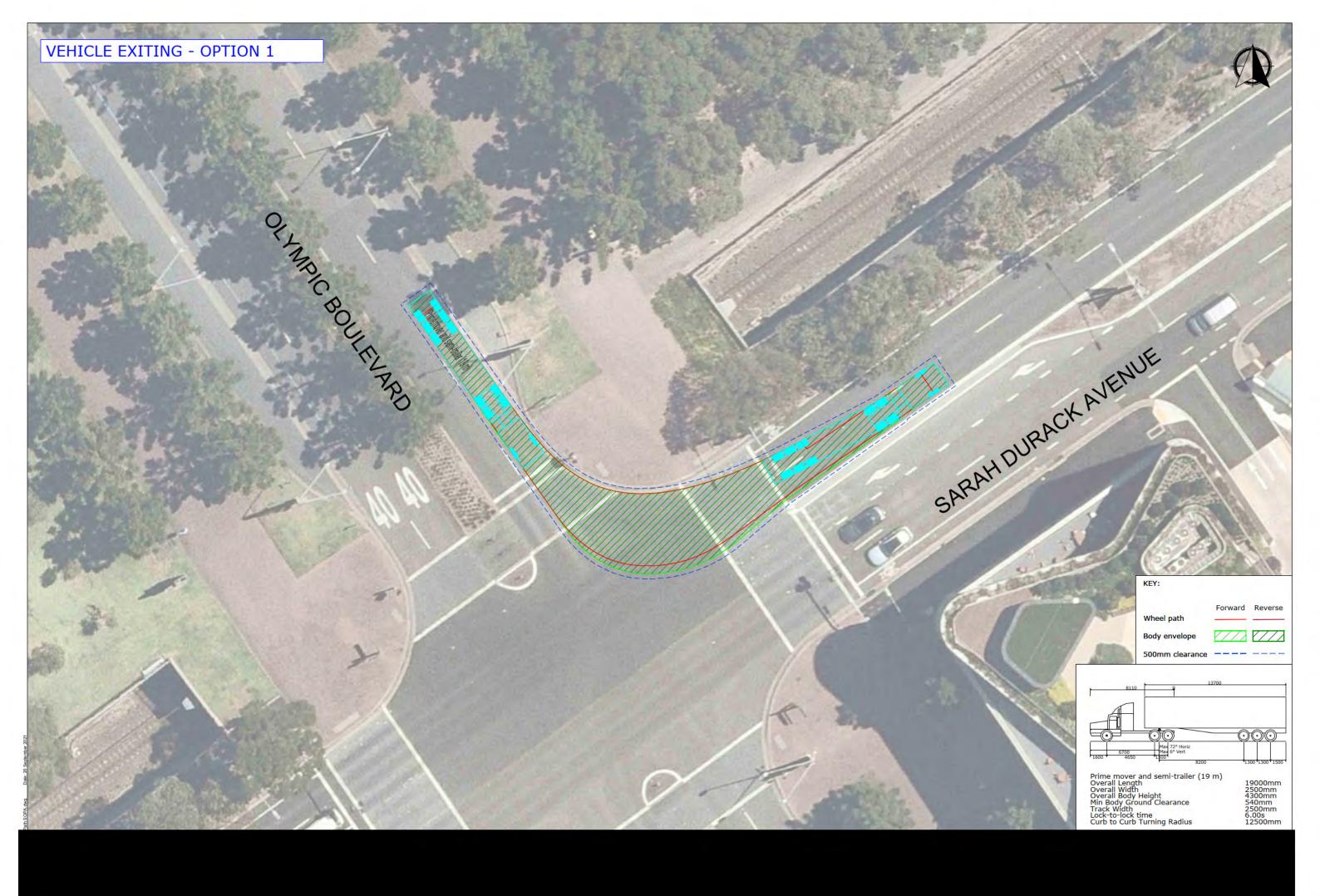


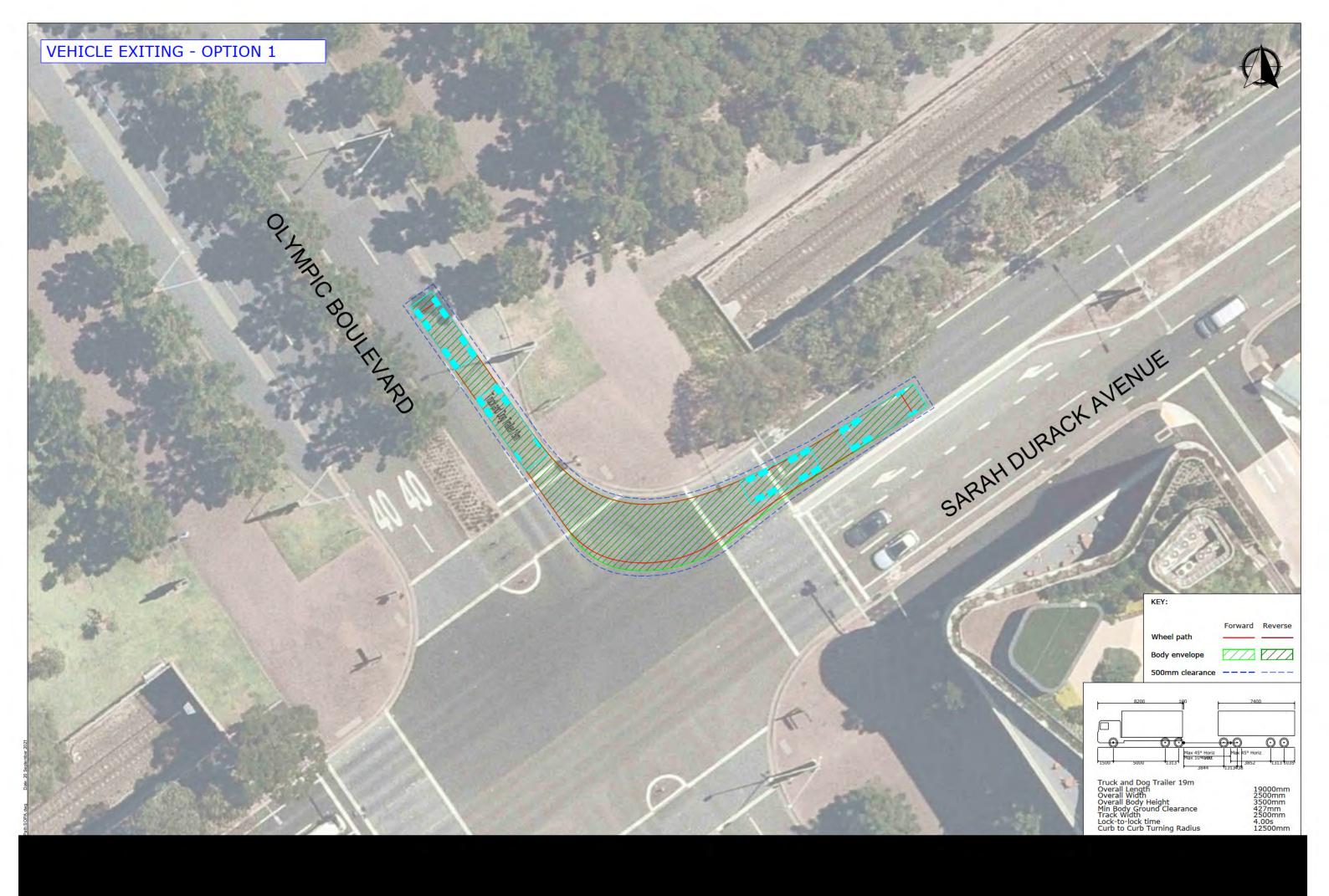


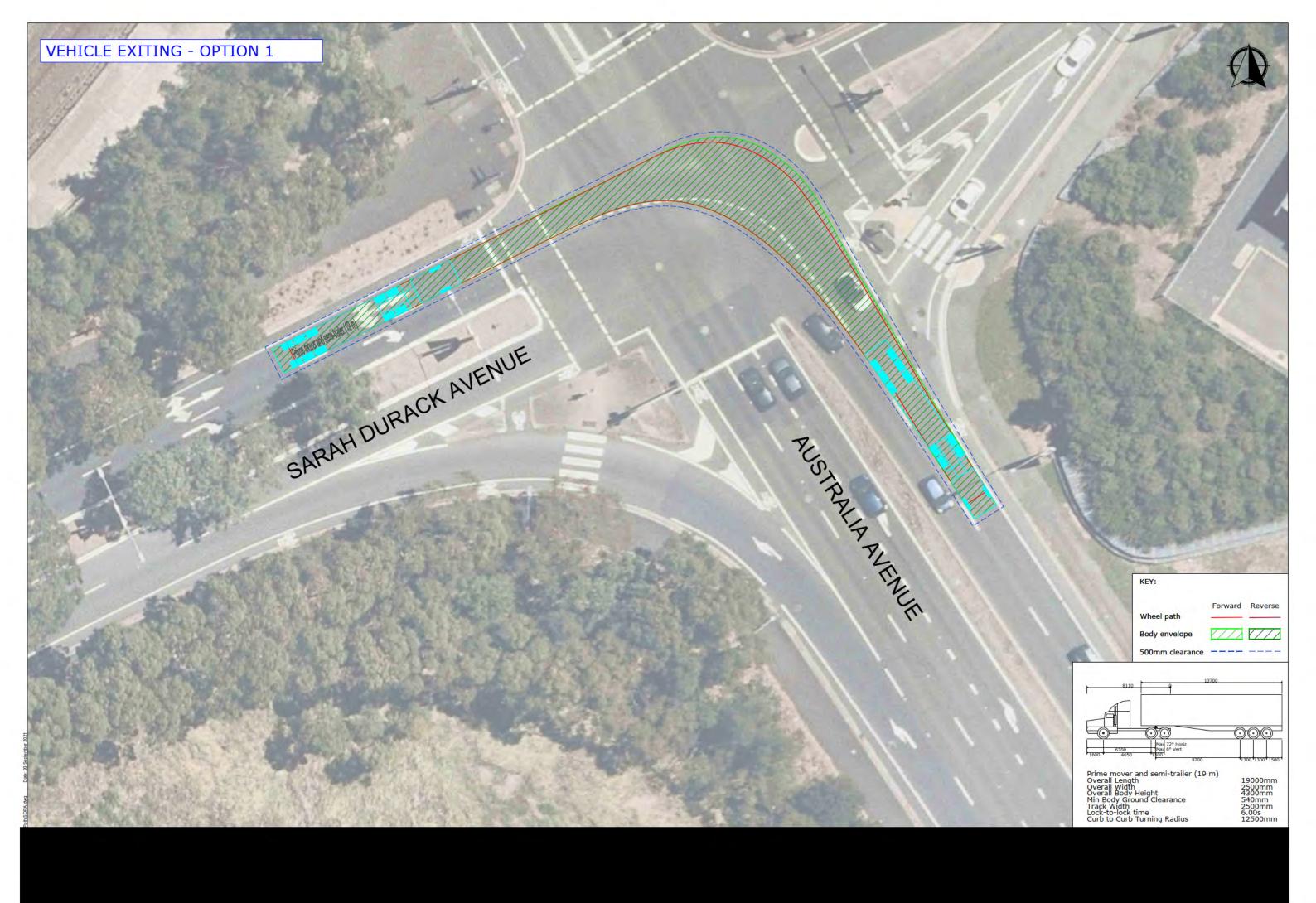


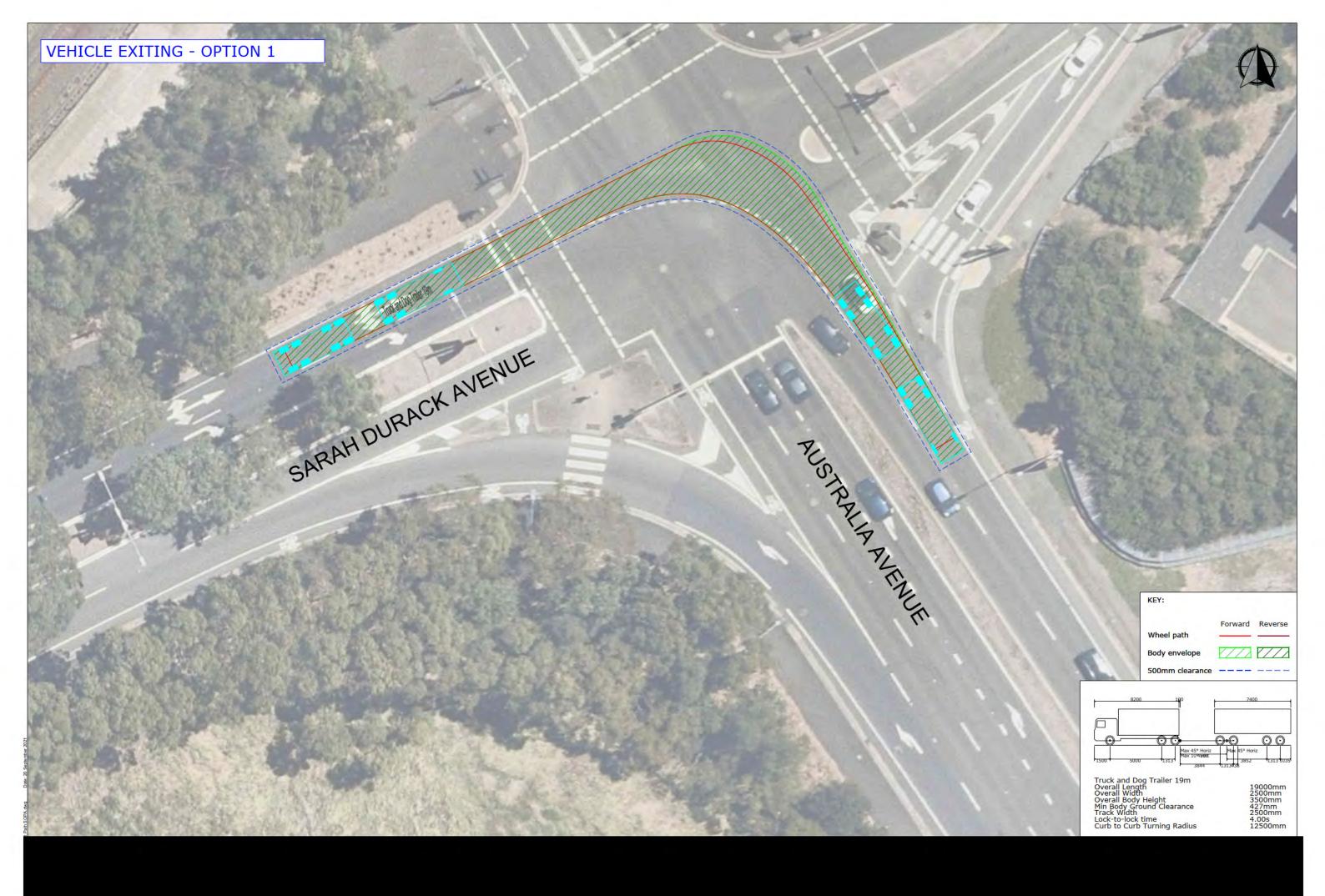


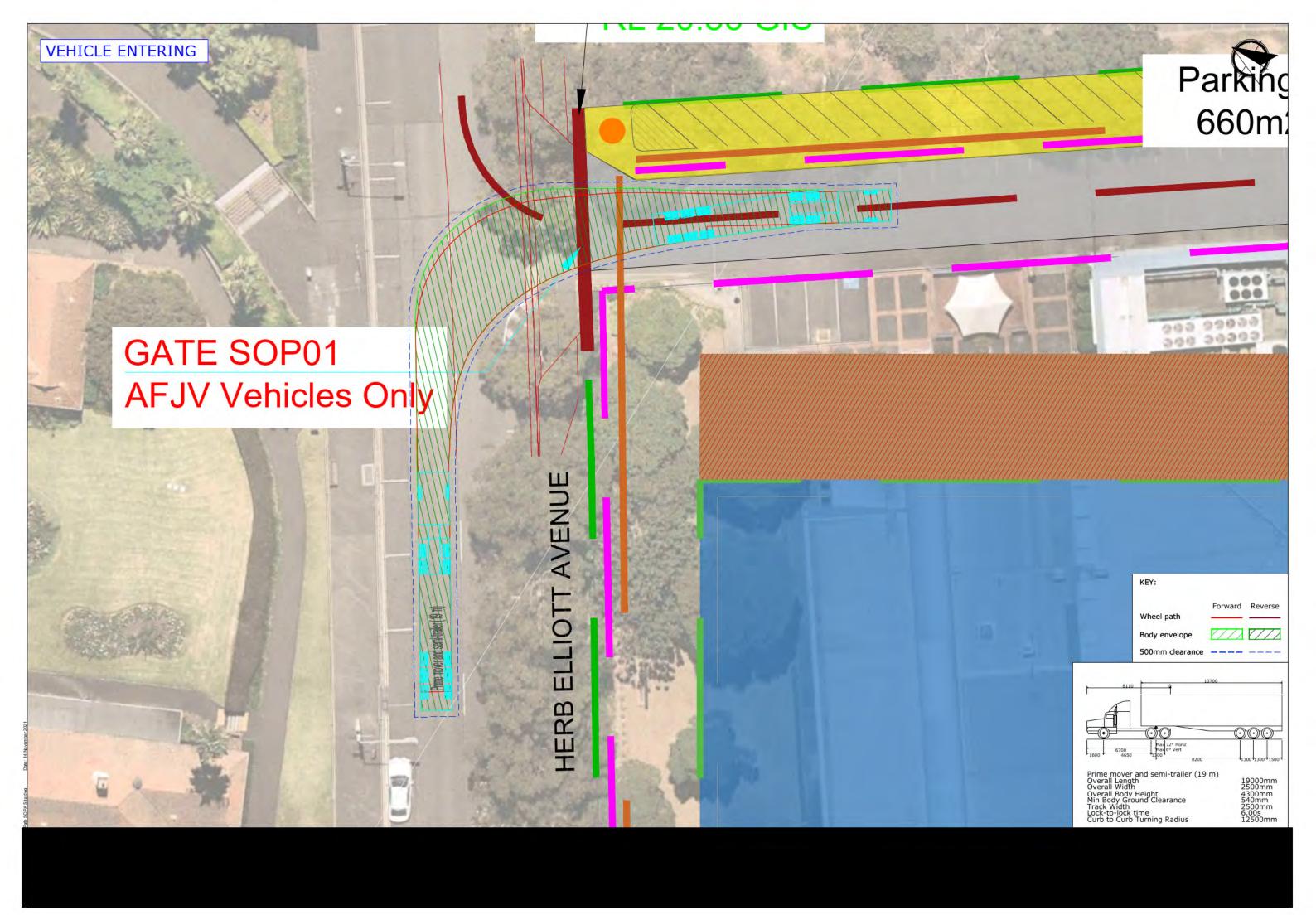


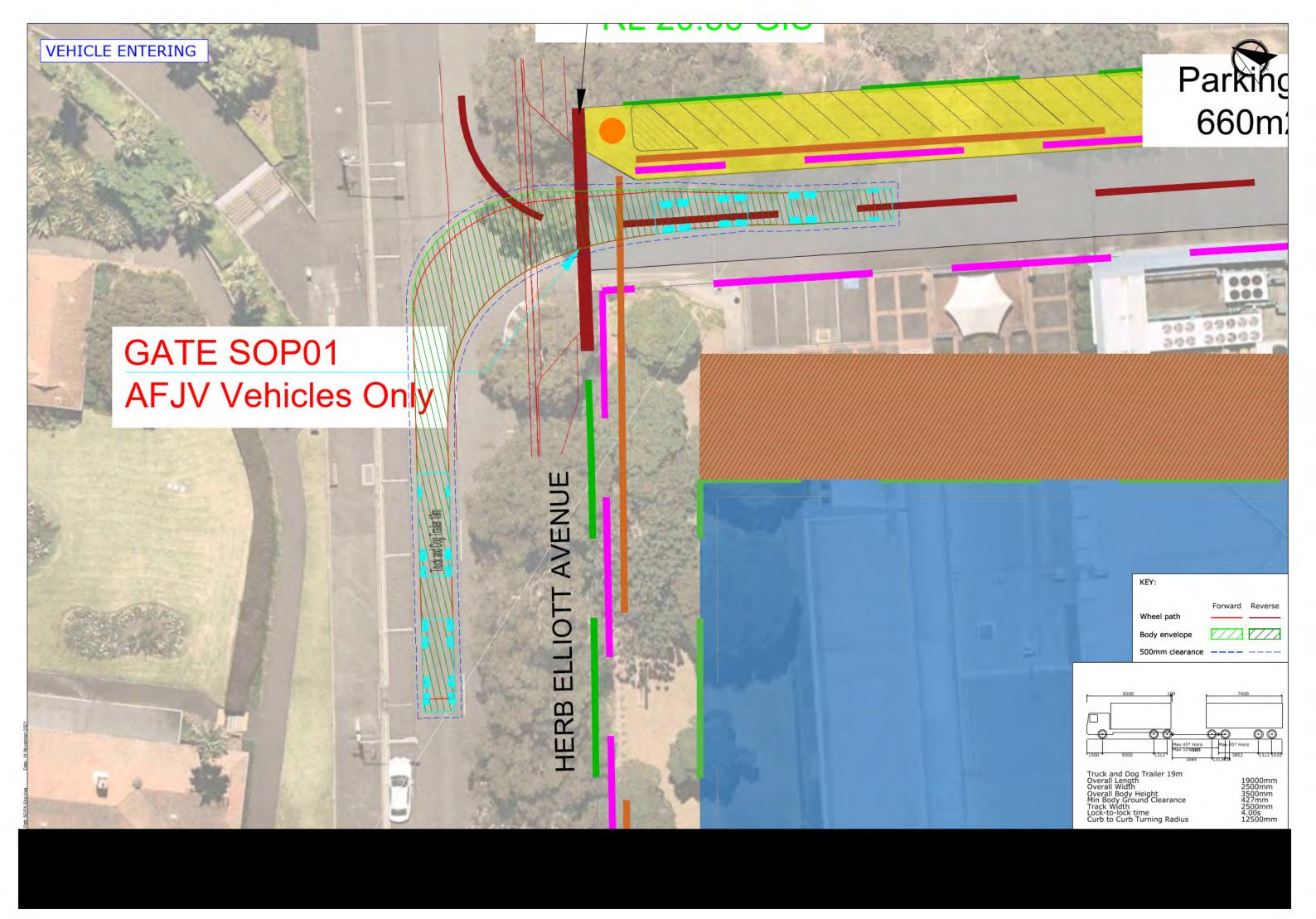


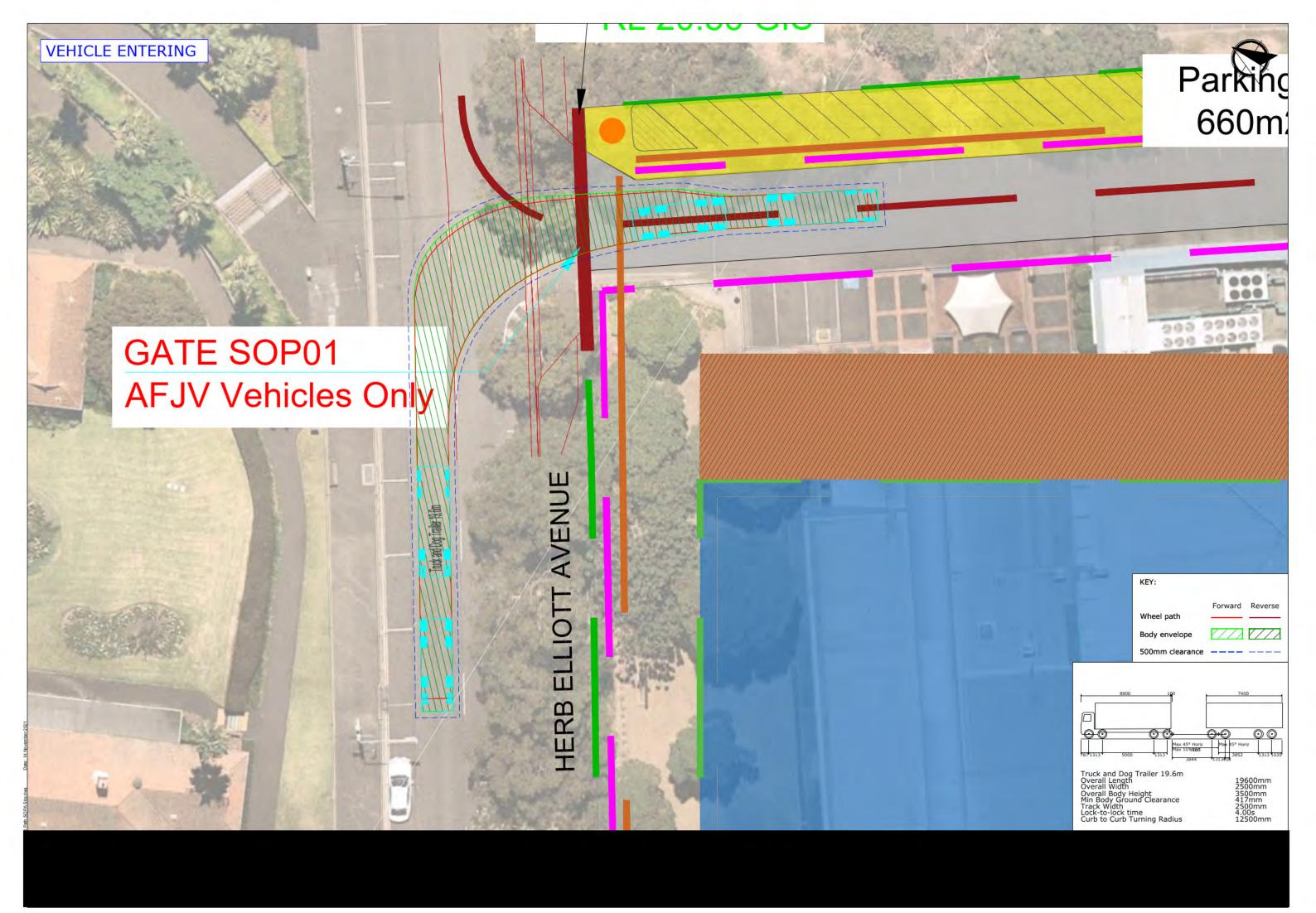


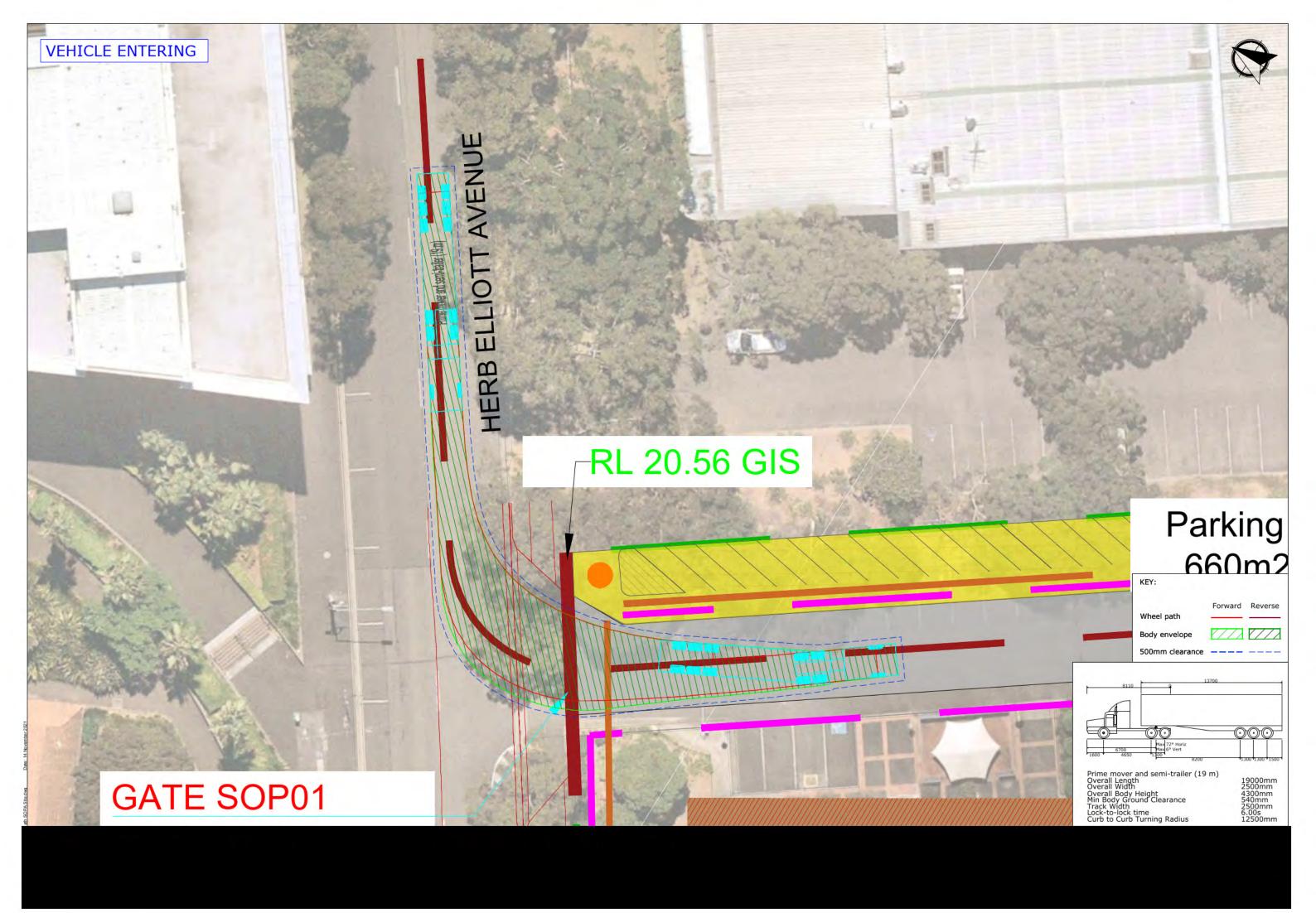


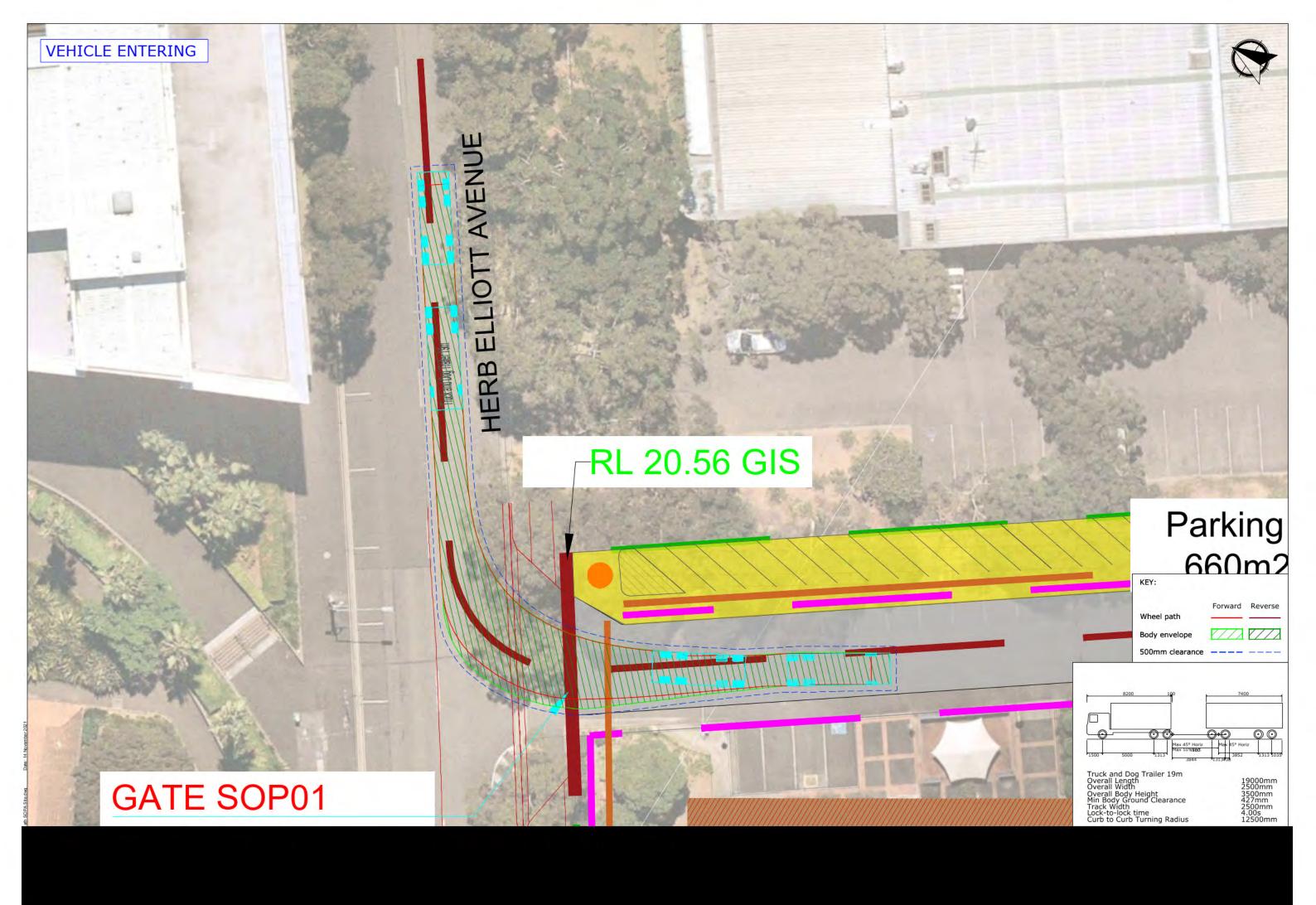


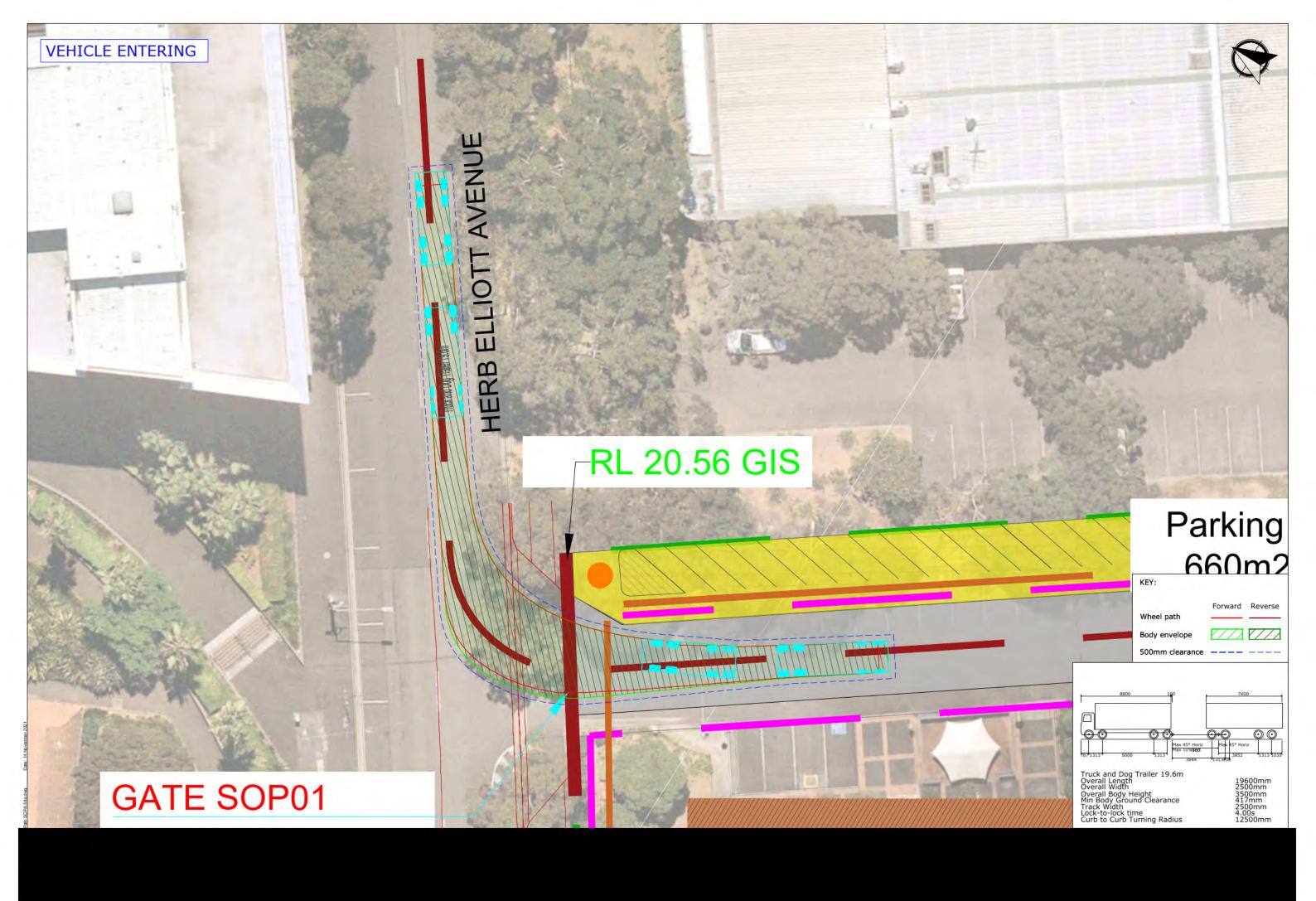


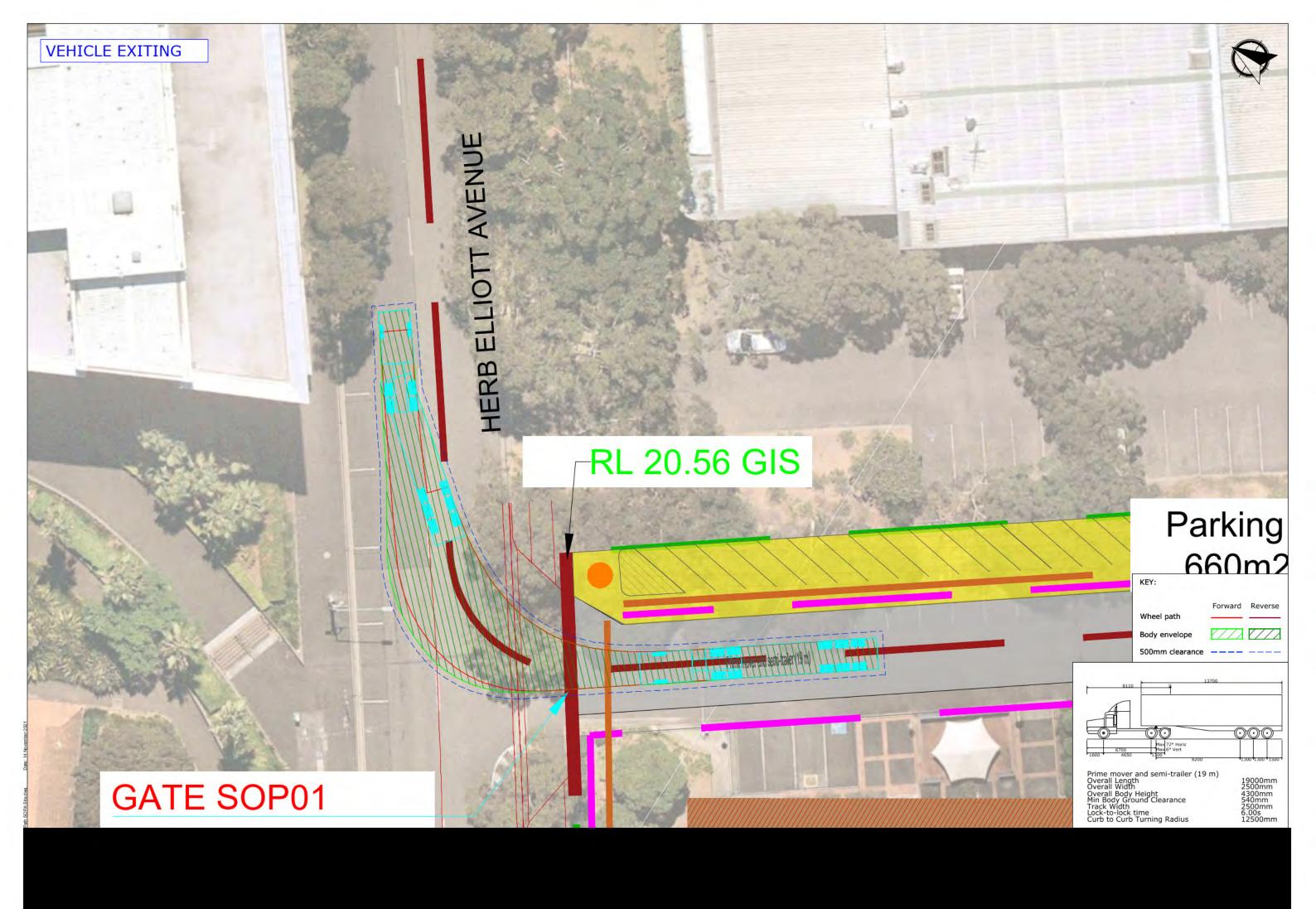


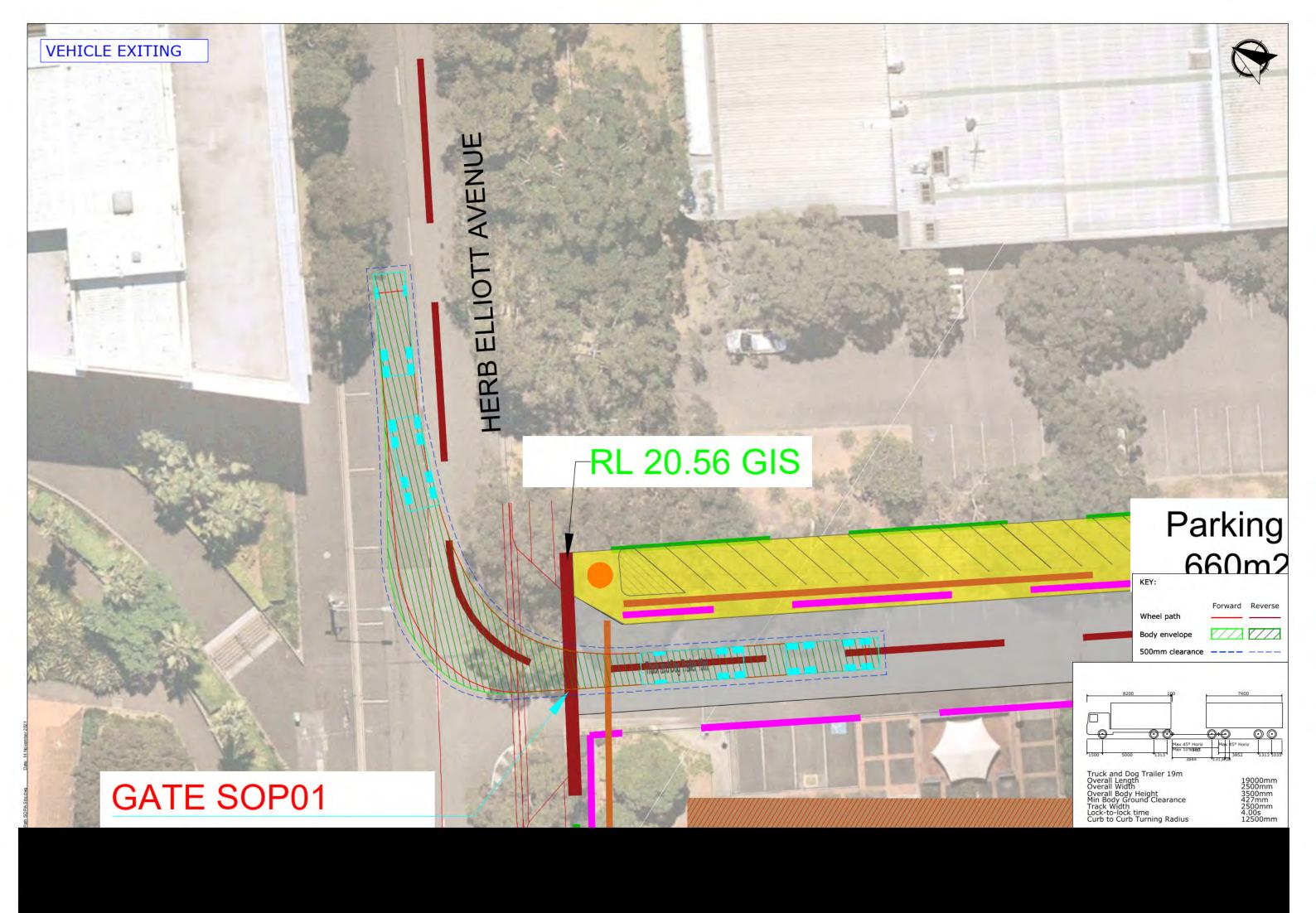


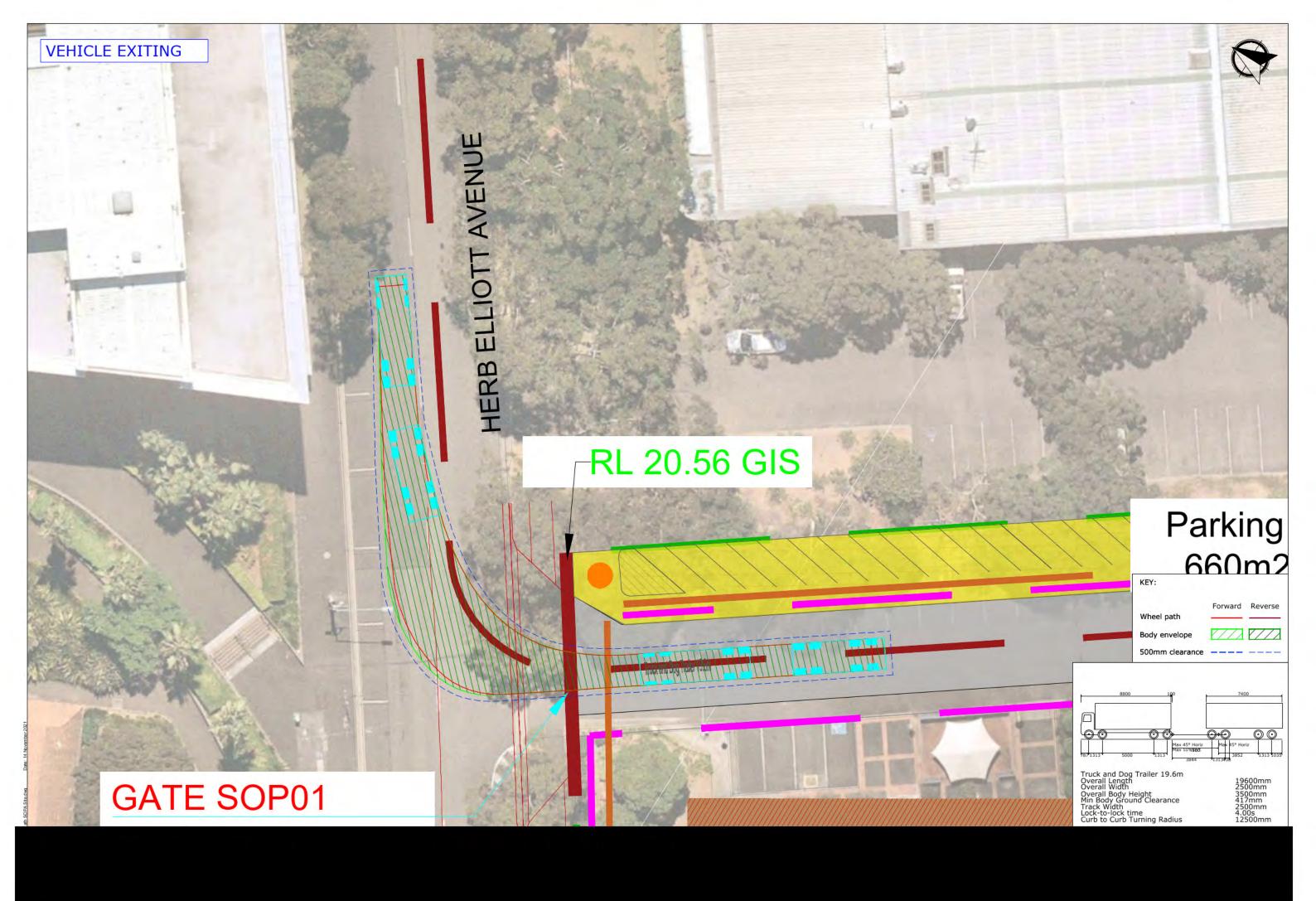


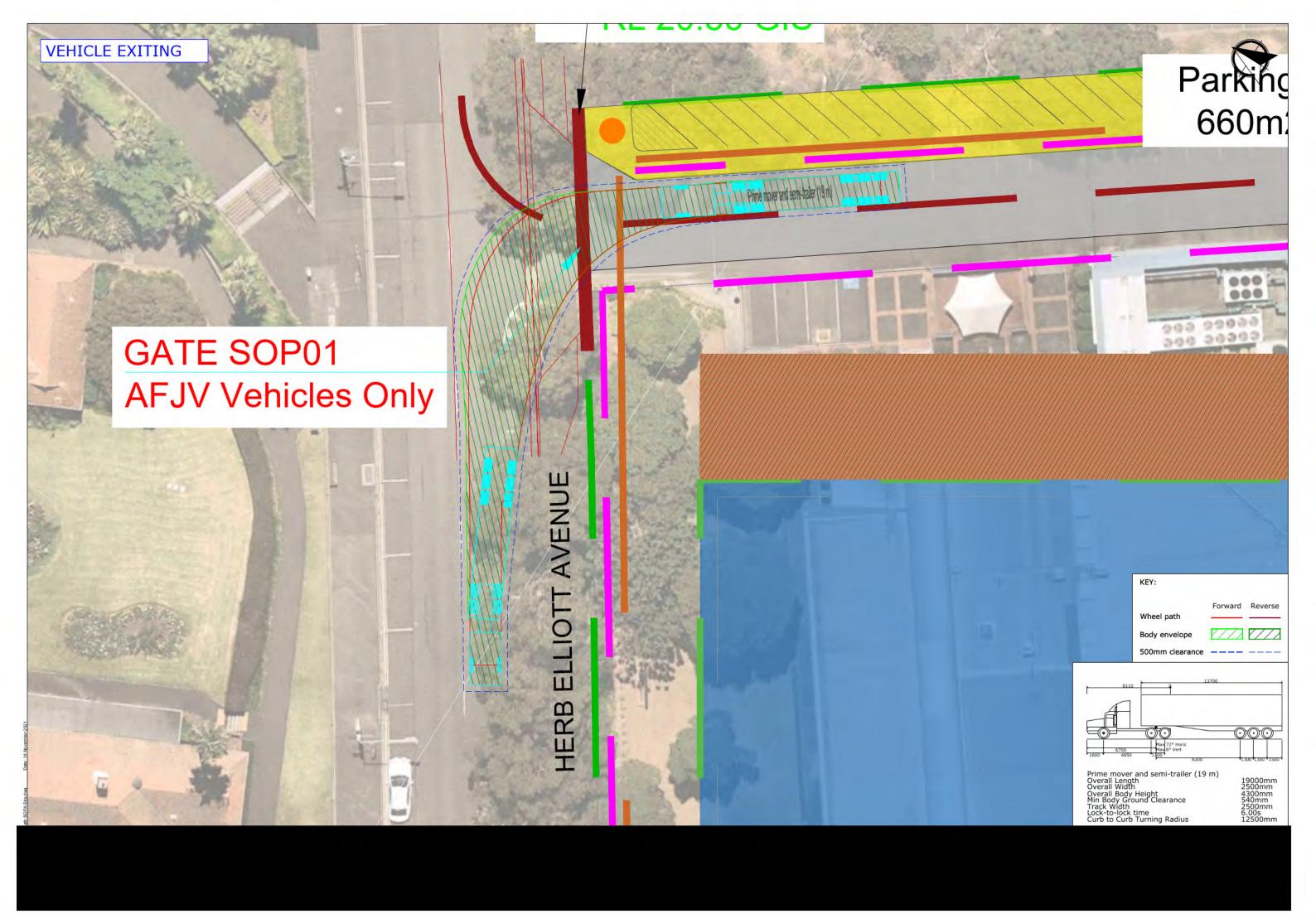


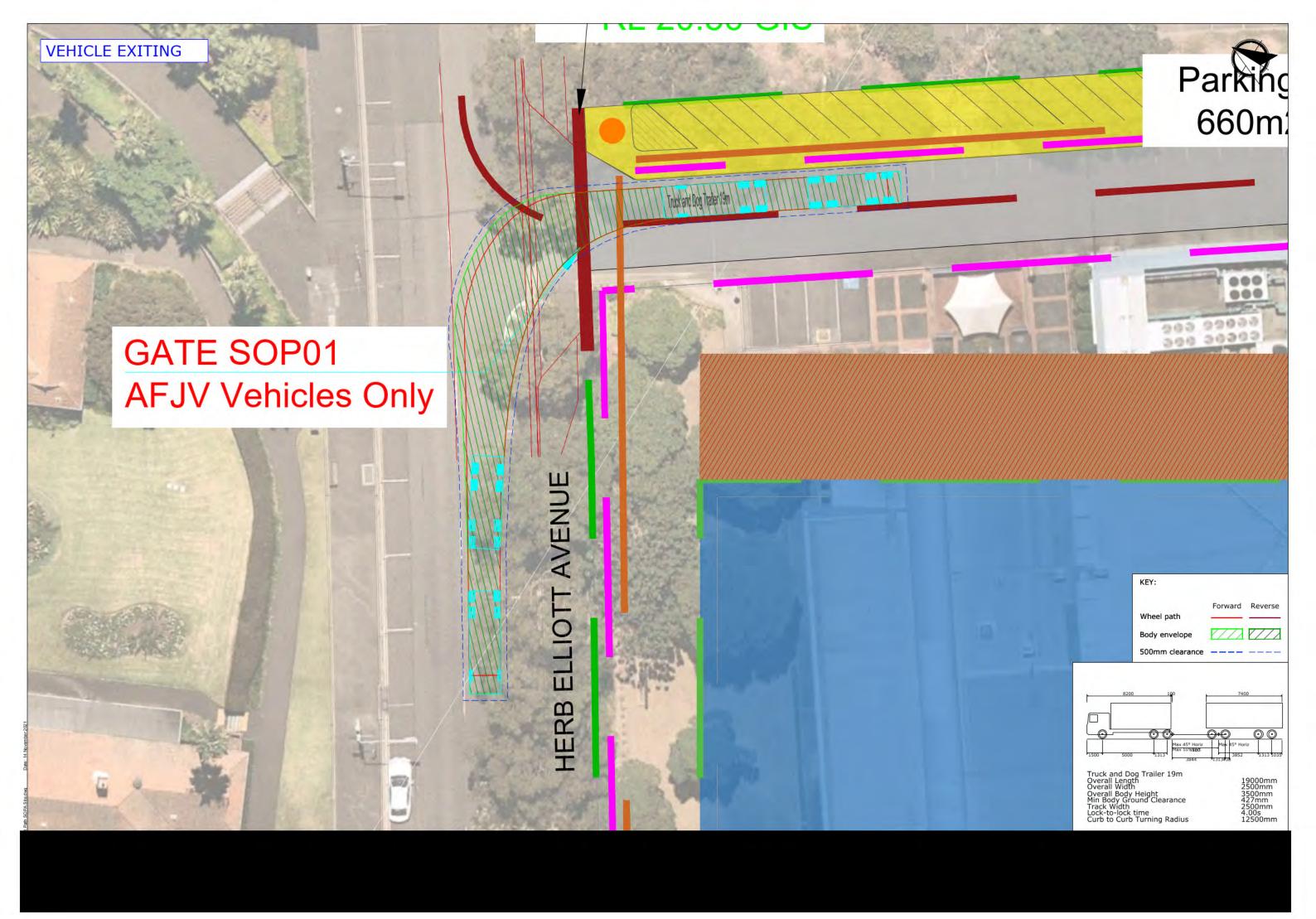


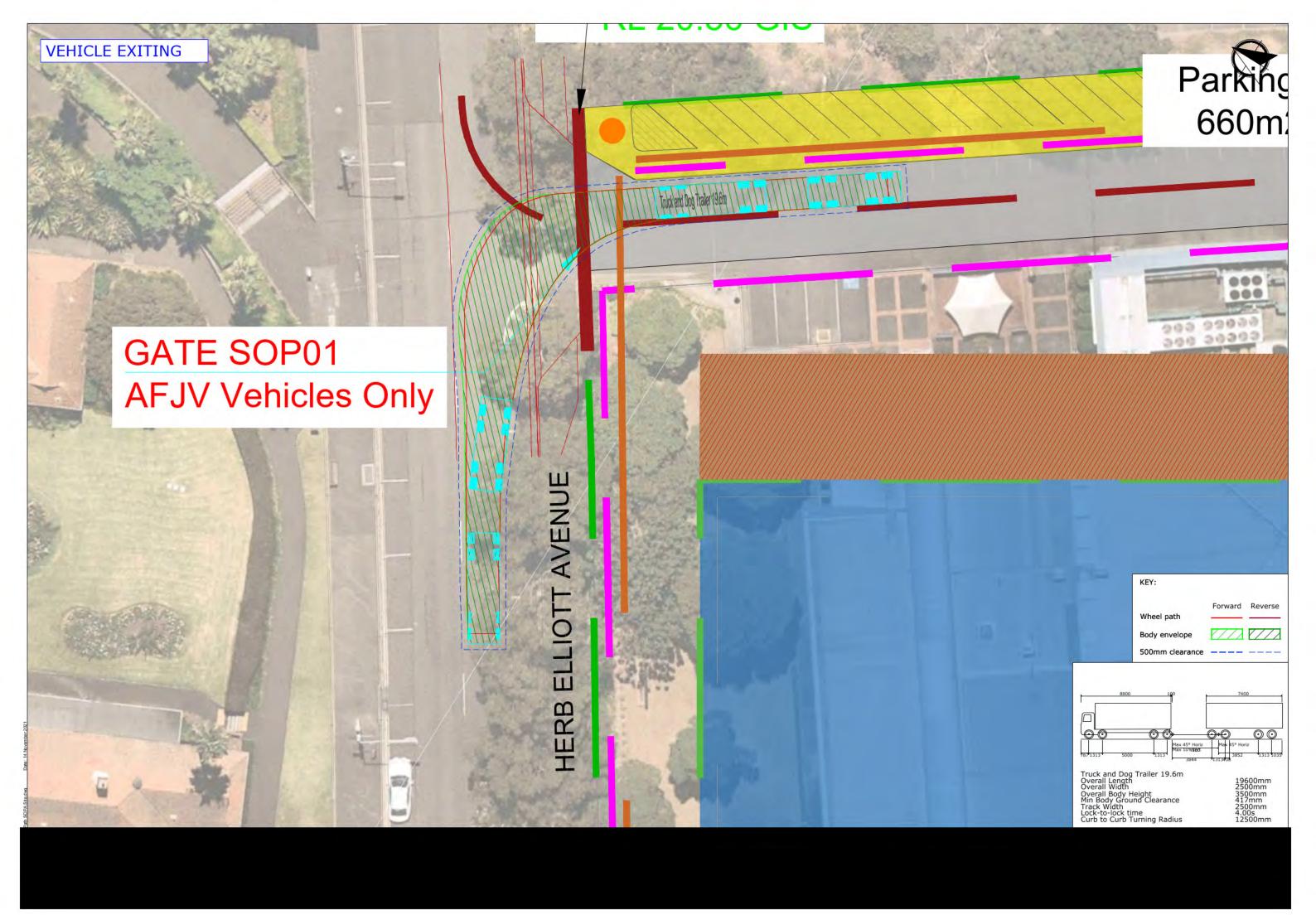


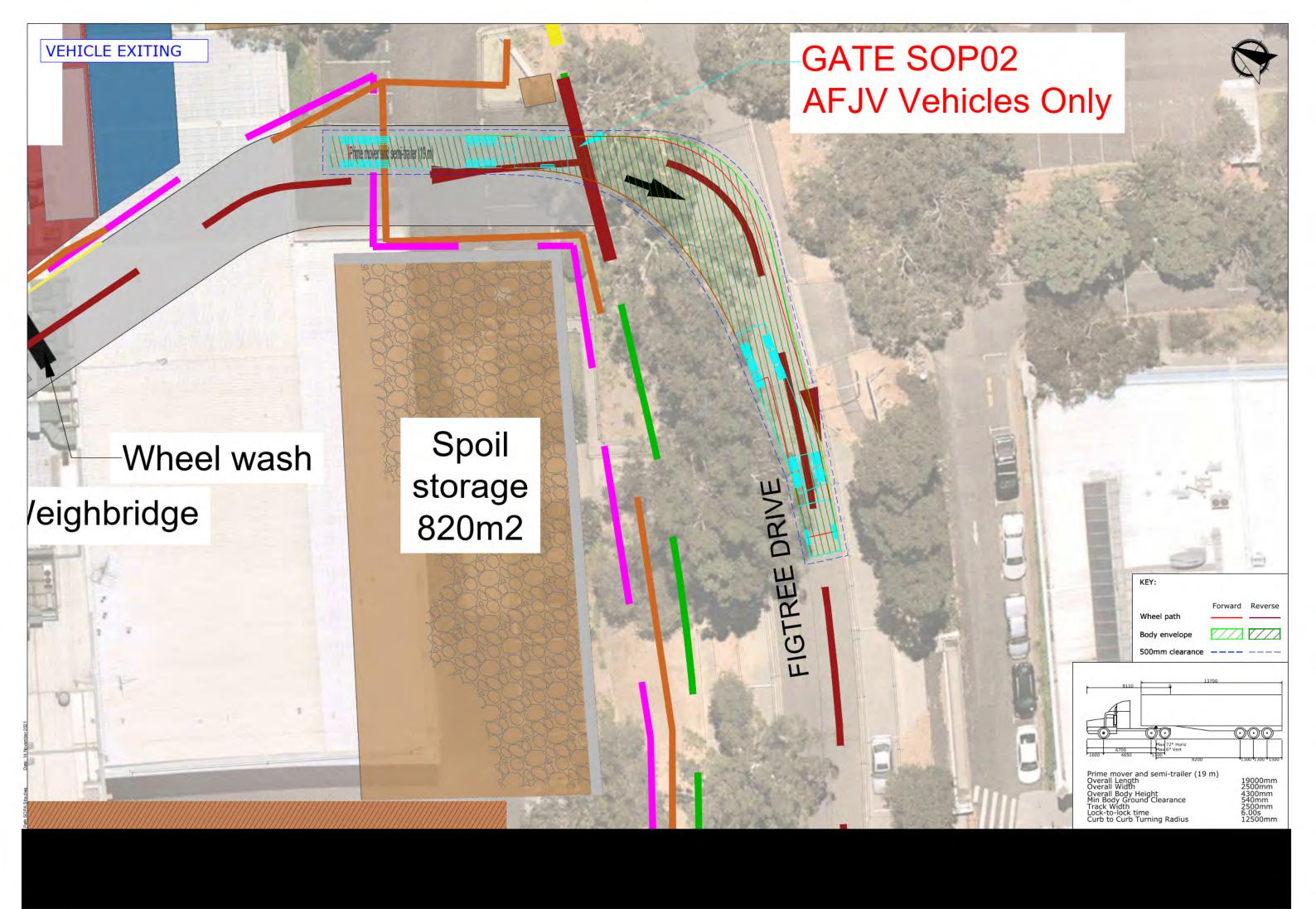


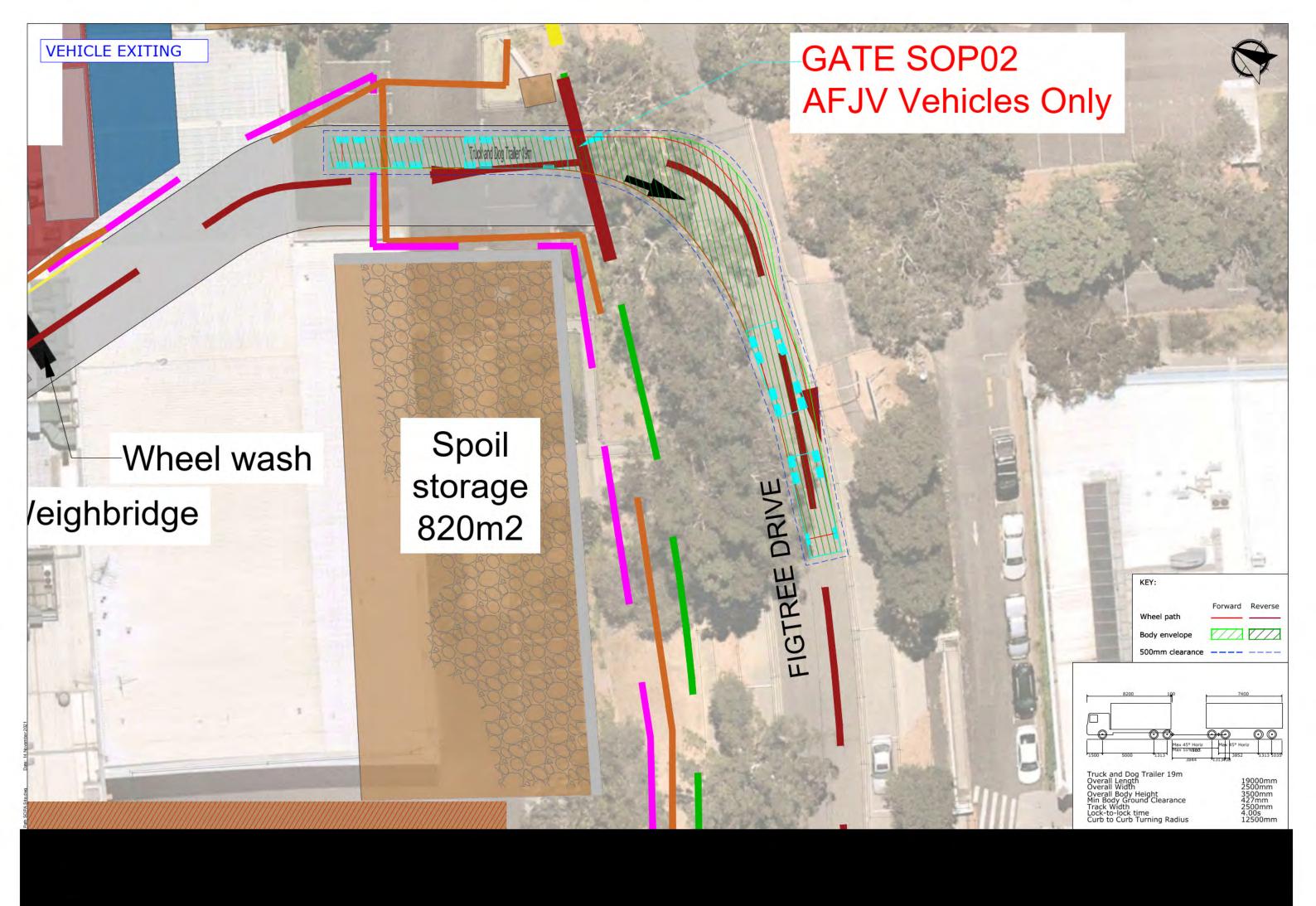


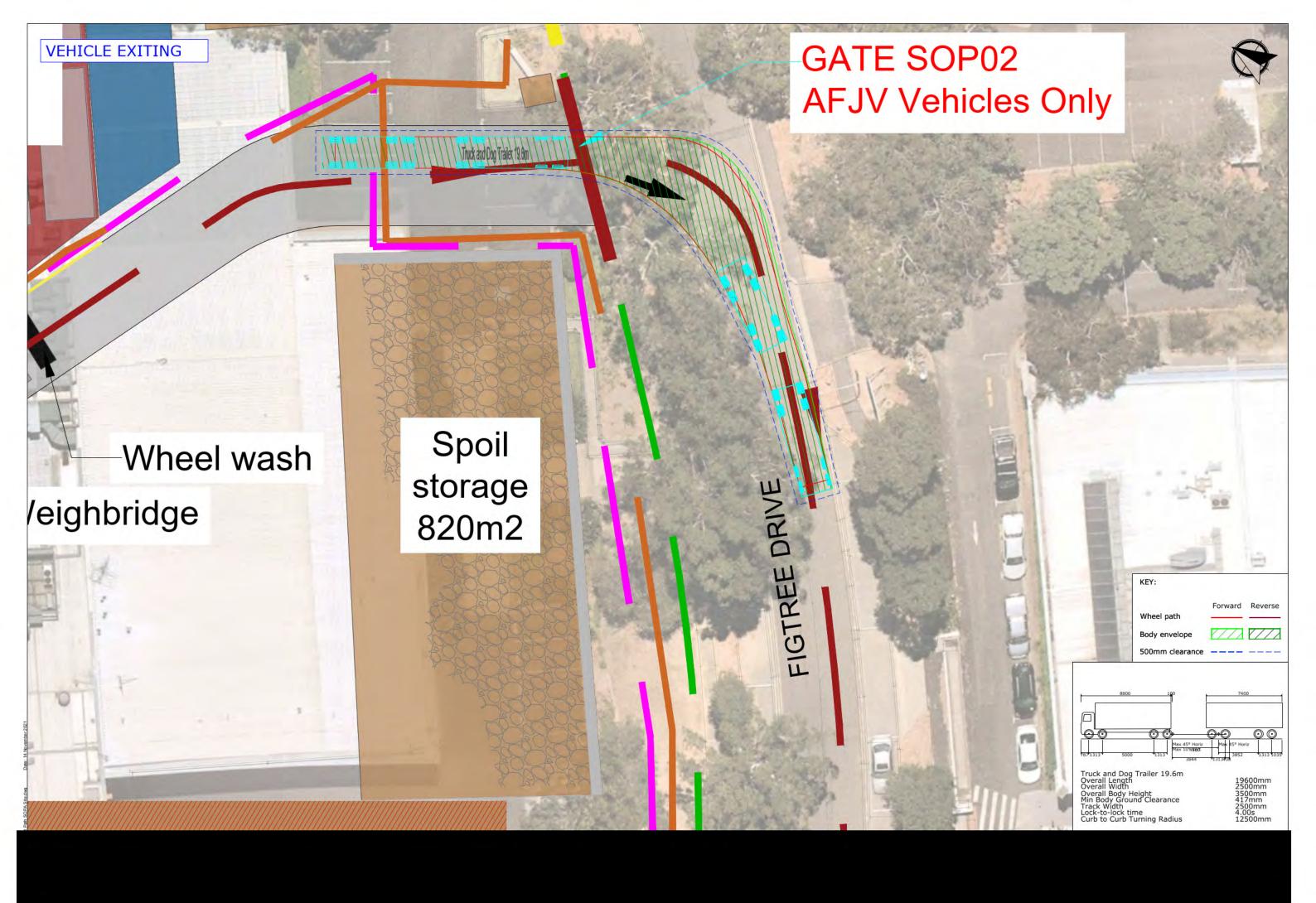






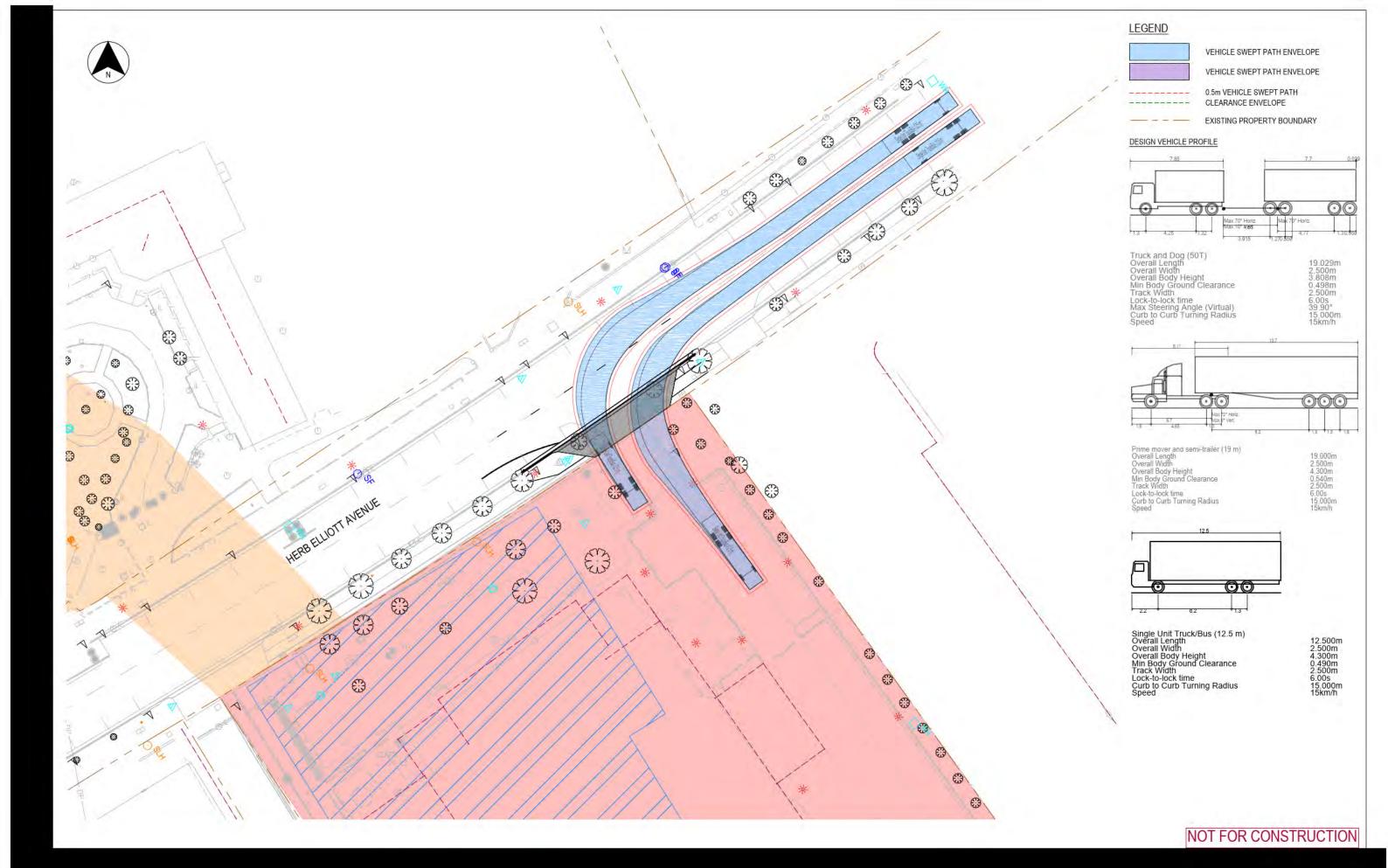


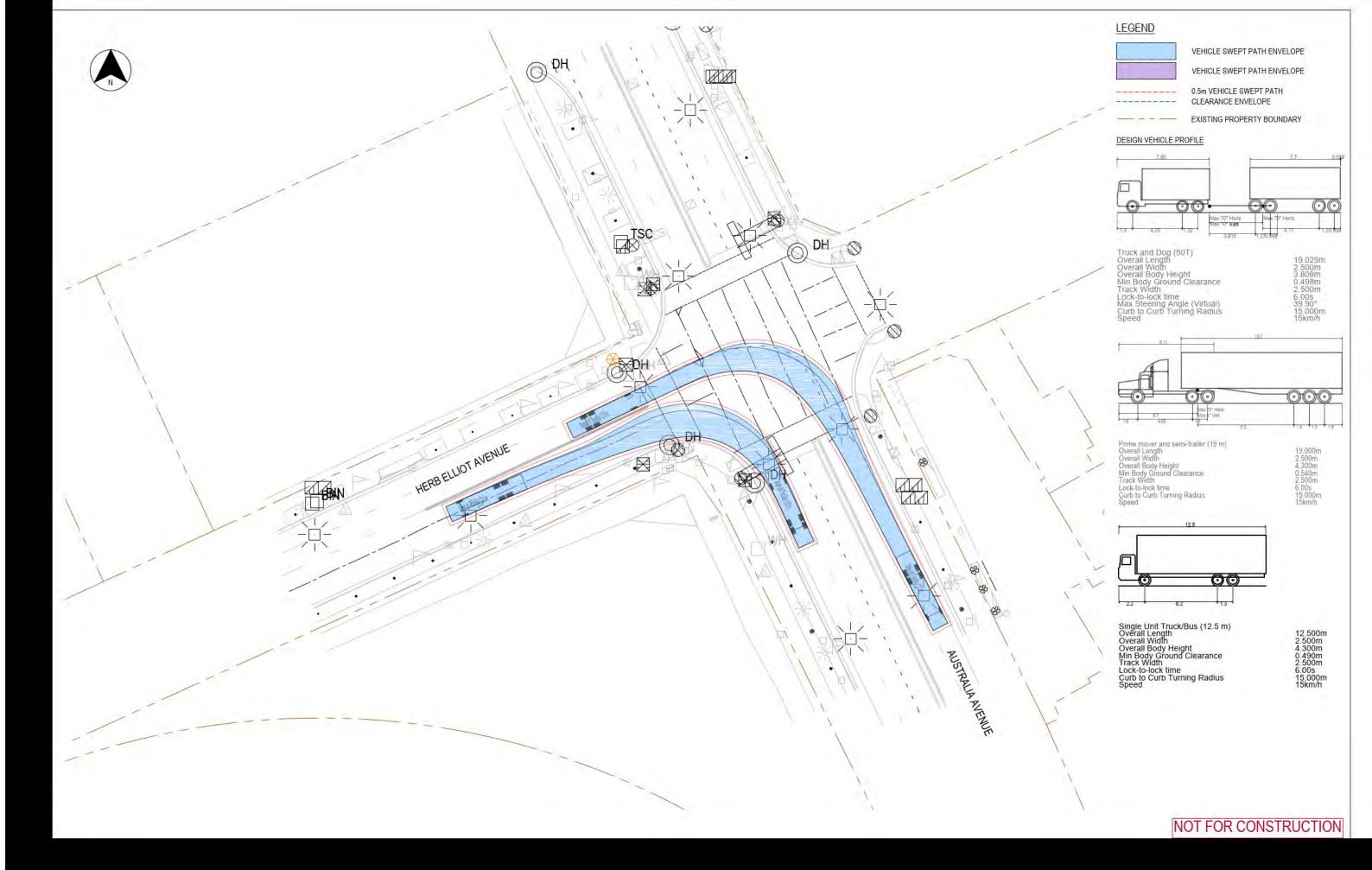














APPENDIX E - ROAD SAFETY AUDIT



Sydney Metro West SOPA Traffic Staging Concept Design Road Safety Audit

Prepared for:

Acciona Ferrovial Joint Venture

30 November 2021

The Transport Planning Partnership



Sydney Metro West SOPA Traffic Staging Concept Design Road Safety Audit

Client: Acciona Ferrovial Joint Venture

Version: V01

Date: 30 November 2021

TTPP Reference: 21319

Quality Record





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Figures

Figure 2 1: Audit Scope

2

APPENDICES

A. DESIGN DRAWINGS



1 Road Safety Audit Summary

Audited project:

Client:

Project manager:

Email address:

Telephone:

Audit Team:

Audit type:

Commencement meeting:

Audit date:

Completion meeting:



2 Introduction

2.1 Background

This report has been prepared on behalf of Acciona Ferrovial Joint Venture to present road safety audit findings that have been identified for the construction vehicle access route and associated with the construction of the Sydney Olympic Park metro station as part of the Sydney Metro West project. The amended route differs to the construction vehicle haul route proposed by the Environmental Impact Statement (EIS) for the Sydney Metro West project.

Specifically, the audit scope covered the following routes:

- **Inbound route**: from Australia Avenue, turn left onto Sarah Durack Avenue, turn right onto Olympic Boulevard, and then turn right onto Herb Elliott Avenue.
- Outbound route: from Figtree Drive, turn left onto Olympic Boulevard, turn left onto Sarah Durack Avenue, and then turn right onto Australia Avenue.

The scope of the road safety audit is shown in Figure 2.1.

OckenRoom

OkenRoom

OkenR

Figure 2 1: Audit Scope



2.2 Audit Objective

The objective of this road safety audit is to examine and identify road safety concerns regarding the amended construction vehicle haul route associated with the construction of the Sydney Olympic Park metro station as part of the Sydney Metro West project.

2.3 Procedures and Reference Material

The procedures used are described in the following guidelines:

- Roads and Maritime Services' 2011 Guidelines for Road Safety Audit Practices
- Austroads Guide to Road Safety 2019: Part 6 Managing Road Safety Audits
- Austroads Guide to Road Safety 2019: Part 6A Implementing Road Safety Audits.

Austroads checklist was used by the audit team as a reference in this road safety audit. Key elements examined included:

- general topics drainage, type and degree of access to development
- design issues
- intersections
- lighting, signs and delineation
- physical objects
- environmental constraints
- other matters including over size vehicles.

2.4 Audit Team





3 Road Safety Audit Program

3.1 Commencement Meeting

A formal meeting was not held.

3.2 Site and Field Audit

No site inspection was undertaken for this audit However, a site inspection was carried out on Tuesday 28 September 2021 for the previous audit

3.3 Completion Meeting

Not required.



4 Road Safety Audit Findings

4.1 Introduction

Table 4.1 provides specific details of the audit findings and a risk rating as high, medium or low. The risk ratings have been based on the risk matrix presented in Table 4.1, which has been adopted from the standard Austroads Risk Matrix.

Table 4 1: Risk Matrix

Likelihood	Highly probable	Occasional	Improbable
Severity			
Major			Medium
Moderate	High	Medium	Low
Minor	Medium	Low	Low

The terms in Table 4.1 are described below.

Likelihood:

- Highly probable: It is likely that more than one crash of this type could occur within a fiveyear period.
- Occasional: It is likely that less than one crash of this type could occur within a five-year period.
- Improbable: Less than one crash of this type could occur within a 10-year period.

Severity:

- Major: The crash is likely to result in a fatality or serious injuries
 For example, high/medium speed vehicle collision, high/medium speed collision with a fixed object, pedestrian struck at high speed, and cyclist hit by car.
- Moderate: The crash is likely to result in minor injuries or large scale of property damage
 For example, some slow speed vehicle collisions, cyclist falls, and rear end crashes.
- Minor: The crash is likely to result in minor property damage or many near miss crash events

For example, some slow speed collisions, pedestrian walks into object (no head injury), and car reverses into post.

Priority:

- High: Very important, and needs to be addressed urgently.
- Medium: Important, and needs to be addressed as soon as possible.
- Low: Needs to be considered as part of regular maintenance/planning program.



4.2 Responding to the Audit Report

As set out in the road safety audit guidelines, the responsibility for the road rests with the project manager, not with the auditor. The project manager is under no obligation to accept the audit findings. Neither is it the role of the auditor to agree to, or approve the project manager's responses to the audit.

The audit provides the opportunity to highlight potential road safety problems and have them formally considered by the project manager in conjunction with all other project considerations.

4.3 Road Safety Audit Findings

The audit findings are documented in Table 4.2 which provides:

- specific details of the road safety issues identified during the audit
- a risk level rating for each of the road safety audit findings.

It should be acknowledged that positive attributes of the audited road section have not been discussed. Deficiencies that do not cause a safety problem are also not listed.

In-line with Roads and Maritime Services' best practice recommendations have not been included in the road safety audit findings.



Table 4.2: Road Safety Audit Findings

Item No.	Location	Descriptions of Findings	Design/ Photo	Likelihood	Severity	Risk Rating	Designer Response
1	Herb Elliott Avenue Driveway Access	The proposed driveway modification would create a much wider area for pedestrians to cross the driveway. Wide crossings can increase the risk of a pedestrian being struck. This should be considered given that SOPA events generate pedestrian activity in the area.		Improbable	Serious	Medium	Pedestrian gates added to increase awareness. Signs added (W5-234) Watch for Heavy Vehicles at the approach of the driveway
2	Herb Elliott Avenue Gate	The plans show a gate located some 9m from the frontage road. Heavy vehicles, including 20m semi-trailers and 19m truck and dogs would obstruct the carriageway if stopped at the gate. There would be as risk of minor crashes of vehicles manoeuvring around stopped trucks.	GATE SOP01 AFJV Vehicles Only	Improbable	Minor	Low	The gate will be open during operational hours. Therefore, no trucks will need to stop on Herb Elliott Ave to enter the site. Guard hut will be located 20m inside the site (from the footpath). This will allow trucks to clear the road and footpath prior to stopping.



Item No.	Location	Descriptions of Findings	Design/ Photo	Likelihood	Severity	Risk Rating	Designer Response
3	Herb Elliott Avenue Gate	The gate is located on a slope. Control points should be located on flat areas so that vehicles do not need to apply handbrakes while stopped. There is a risk that vehicles may roll back while stopped. This may result in the vehicle colliding with a parked vehicle or vehicle travelling past.	GATE SOP01 AFJV Vehicles Only	Improbable	Moderate	Low	Guard hut will be located 20m inside the site (from the footpath). This will allow trucks to clear the road and footpath prior to stopping. It is located on the flat area of the site.
4	Fig Tree Avenue	Truck Warning signs appear to be located only 50m from the driveway travelling westbound, yet the signage indicates 100m.				Note only	Signs adjusted.
5	Parking Area 1	Angled car parking is proposed in Parking Area 1. Vehicles could park front to kerb in these spaces in which case reversing vehicles would not have adequate sight	Parking 1 660m2	Improbable	Moderate	Low	The design is rear to kerb, as the entry is via Herb Elliott Ave. Risk identified incorrect.



Item No.	Location	Descriptions of Findings	Design/ Photo	Likelihood	Severity	Risk Rating	Designer Response
		distance (when exiting) and may collide with a truck or other vehicle.					
6	Parking Area 2	The circulation roadway at end of the parking aisles appears to be too narrow to allow vehicles to manoeuvre.	Office Crib Facilitie ing 2			Note only	Parking design to be confirm. Parking layout removed.



Item No.	Location	Descriptions of Findings	Design/ Photo	Likelihood	Severity	Risk Rating	Designer Response
7	Heavy vehicle route on- site	Presumably, heavy vehicles would enter the site then proceed to the brown or blue shaded area i.e. the works area. There is no swept path indicating such movement, and how trucks would then access the weighbridge/ wheel wash from the works area. Currently, the site layout plan and vehicle haul route only show heavy vehicles circulating along the outer roadway on-site.				Note only	Vehicle will move as per the swept path design. Assumption incorrect.
8	Parking Areas 1 and 2	Presumably, vehicles accessing Parking Areas 1 and 2 would enter the site via Herb Elliot Avenue. Access routes to/from these parking areas are not indicated on the site layout plan (while access to Parking Area 3 has been shown).	Travel for the travel			Note only	LV parking to follow the general traffic flow (entry Herb Elliott, exit via Figtree). Left in/Left out of parking area through the access corridor (in grey). This changes only during special events where entry/exit is via Herb Elliott Ave.

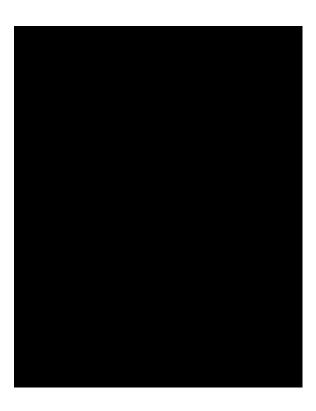


5 Concluding Statement

The findings and opinions in the report are based on the examination of the specific road and environs, and might not address all concerns existing at the time of the audit.

The auditors have endeavoured to identify features of the road that could be modified in order to improve safety, although it must be recognised that safety cannot be guaranteed since no road can be regarded as absolutely safe.

While every effort has been made to ensure the accuracy of this report, it is made available strictly on the basis that anyone relying on it does so at their own risk without any liability to the Auditors.





Appendix A

Design Drawings





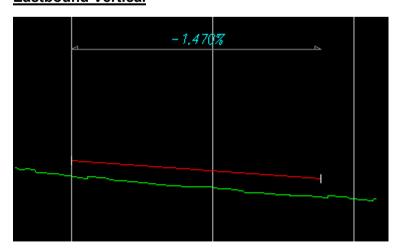
APPENDIX F - SIGHT DISTANCE CHECKS

Sight Distance Checks

SISD Gate SOP02 Eastbound



Eastbound Vertical



SISD Gate SOP02 Westbound

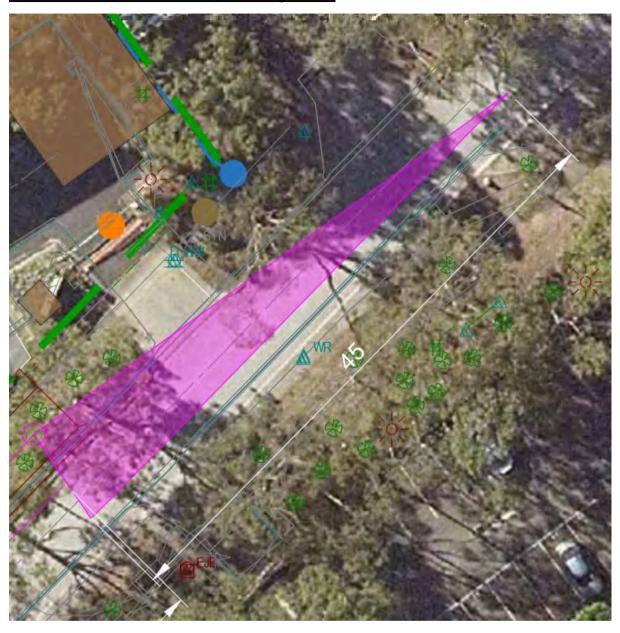


No vertical check was done for the W/B as the sight distance checks falls outside of the extents of available survey. Vertically the sight distances are assumed to work due to consistent longitudinal grade.

Minimum SSD Eastbound Approaching Traffic



Minimum SSD Westbound Approaching Traffic





APPENDIX G - TRAFFIC GUIDANCE SCHEMES (TGS)

Within 1.5m

- Speed reduced to 40km/h or below
- Delineation of worksite
- Shadow vehicle or reduce speed BELOW 40km/h

1.5m to 3m

- Speed reduction to 60km/h or below
- Delineation of worksite
- Shadow vehicle or reduce speed BELOW

3m to

- Speed reduction to 80km/h or below
- delineation of worksite
- Shadow vehicle or reduce speed BELOW

Each location of work is to be assessed to consider site conditions, including: Driver compliance, road configuration and geometry. If deemed required, additional controls are to be implemented, and noted within the Risk Assessment.

Excavation works

Depth less than 200mm

- Address within the risk assessment on
- the last page of this plan
- Delineate the area
- Separate the area from pedestrians and the public

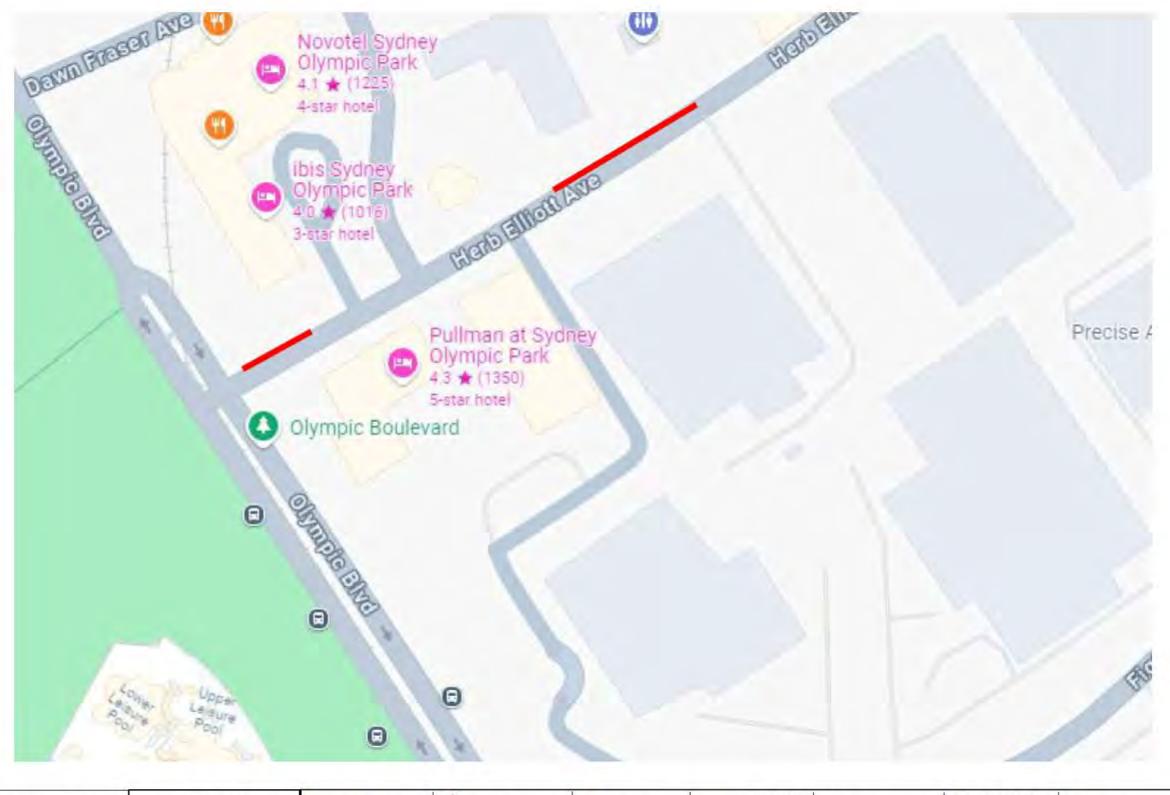
Depth over 200mm but less than

- Address within the risk assessment on the last page of this plan
- Delineate the area
- Separate the area from pedestrians and the public
- Traffic speed 40km/h or below if within 3m of the traffic lane
- Traffic speed 60km/h or below if more than 3m from traffic lane
- Traffic Manager approval

Depth over

- A number of other controls will be required and detailed on the plan, this may include: barriers, lane closures, speed reductions and other controls, as determined by the Traffic Manager in consultation with the Construction Team.

TRAFFIC GUIDANCE SCHEME





PROJECT: SYDNEY METRO WEST - CENTRAL TUNNEL PACKAGE

LEGEND









Traffic Cones



● ● Sign (2 posts)



Signalised

Arrow-board location

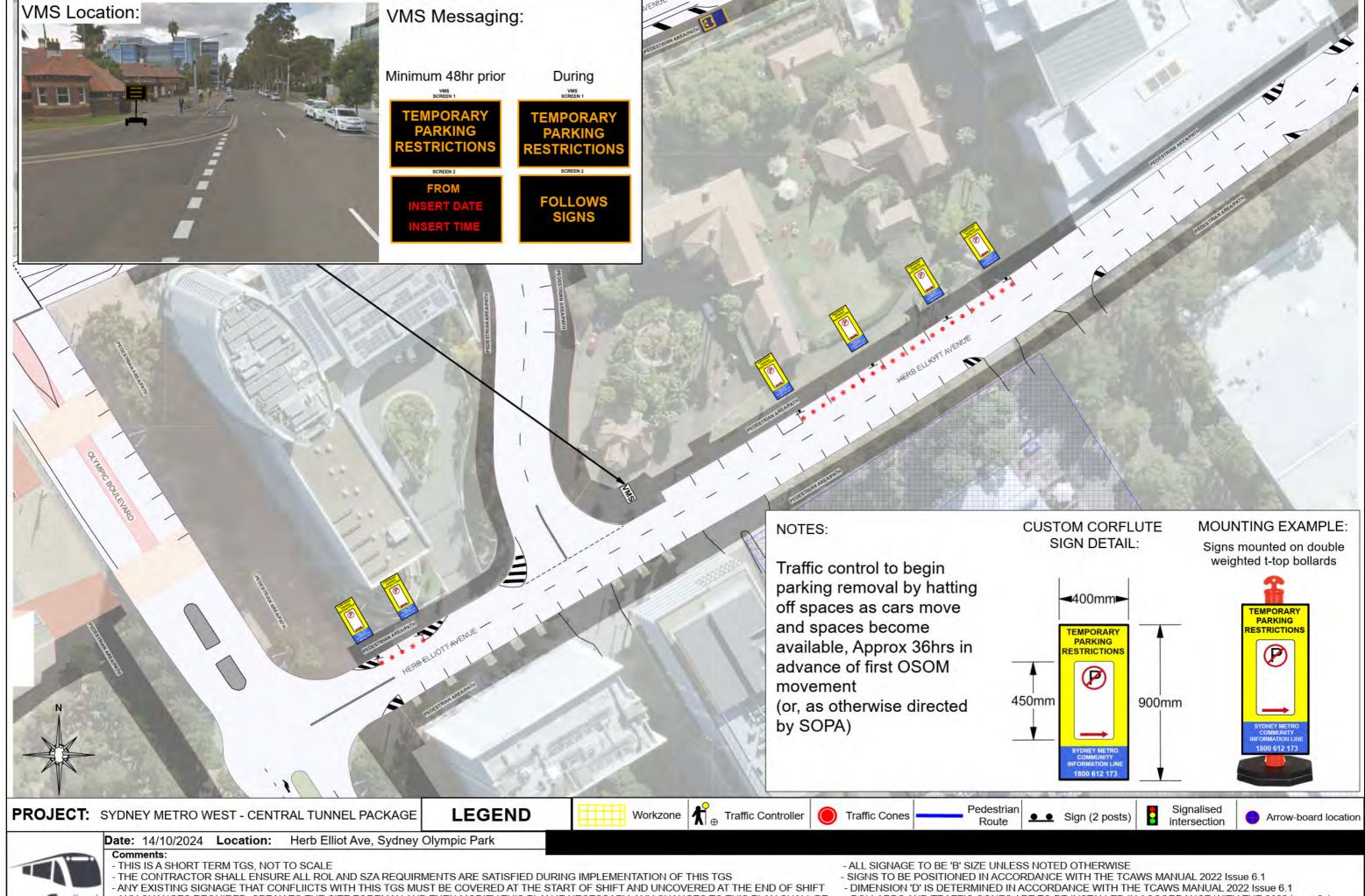
REV - 01



Date: 14/10/2024 Location: Herb Elliot Ave, Sydney Olympic Park

Author name:

- THIS IS A SHORT TERM TGS, NOT TO SCALE
- THE CONTRACTOR SHALL ENSURE ALL ROLAND SZA REQUIRMENTS ARE SATISFIED DURING IMPLEMENTATION OF THIS TGS
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- SHOULDER WIDTH / EDGE CLEARANCE TO TRAFFIC CONES OF 0.5m IS TO BE PROVIDED AT ALL TIMES UNLESS NOTED OTHERWISE
- ALL SIGNAGE TO BE 'B' SIZE UNLESS NOTED OTHERWISE
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TGS Number: AFJVCTP-TGS-0834		Tra	affic Guidan	ce Schem	e - Op	tions	& Risk A	ssessment						of.	
Location Details Road Herb Elliot Avenue			Sve Sve	iney Olym	nnic P	ark	0.	. O Vo	rious				-	710	JV
Direction (N) (E) (S) (W)	Sr	eed of	-	km/h			Side Stre	de Street Va	km/h						
Options Assessment	<u>op</u>	reed of	Toau	KIII/II	- Spe	eed of	Side Sile		KITI/II						
Method selected Around	Past	5	Through												
Reason for selection Traffic can pa	iss wh	nile ma	intaining su	fficient wo	orker/t	raffic	offset.								
Risk Assessment				_				3-2-							-
Section 1 - Does the TGS Involve D	etours	of traff	fic? YES	NO)(If a											Enter Risk
1.1 Are detour routes suitable for all vehicle classes by	peina det	oured?			YES	NO		Enter description of	frisks if answe	red no to	any ques	tion			Rating
1.2 Is access to local residence and business mainta		ourou:													
1.3 Are detour signs located at decision points, to cle	early guid	le motorists	through the detou	r?											
1.4 Can roads and intersections used as detour route														4	
1.5 Is the same level of safety maintained for turn mobeing sent through a detour route that involves turn r															
Section 2 - Does the TGS involve St	T. T. 10.742		and the second second	- 1	VO)If	answe	red no prod	ceed to section	3)						Enter
Section 2 Bees the 199 involve of	.op/oic	JW dira	ngements.	120	YES	NO		Enter description of		ered no to	any due	stion			Risk Rating
2.1 Are escape routes clearly defined on the TGS, cl	ear and s	safe to use	?					Enter description o	i noto ii dilov	or our no to	runy quoc	, and a		-1	
2.2 Is a PTCD used in place of a manual Traffic Con			A CONTRACTOR	then 45km/h?			*								
2.3 Is the operating speed of the road 60km/h or less	s where T	raffic Cont	rol or PTCD are in	use?											
2.4 Are x4 traffic cones placed on the edge or center				or PTCD?											
2.5 Is prepare to stop and Traffic Control or PTCD sy			A STATE OF THE STATE OF											-	
2.6 Do Traffic Control and PTCD positions have adec 2.7 Does sight distance of at least 1.5D exist on approximately		2000		S											
2.7 Dood sight distance of at least 1.00 exist on appl	odon to 1	Tuno com	101011100												Enter Risk
Section 3 - General					YES	NO		Enter description of	of risks if answ	ered no to	any ques	stion			Rating
3.1 Does the TGS define minimum clearances requir		W 307 1 W			X		NA							-	
3.2 Are worker symbolic signs to be placed in advance.			Carrier Total				NA								
3.3 Are all signs placed at correct distances? i.e. D for 3.4 Are taper lengths compliant and not placed in are	-			ve oukm/n			NA								
3.5 Are lane status signs placed in advance of a lane			, can be a				NA								
3.6 Are the correct tapers being used? i.e. merge tap		5	oer, lateral shift tape	er.			NA								
3.7 Does the TGS clearly define transition zones beto	ween tape	ers on mult	tilane roads, are the	ey compliant?			NA								
3.8 Does the TGS clearly define Buffer areas, are the				77 De 177 I			NA								
3.9 Does the TGS clearly define site access and egre	77.	THE THE STATE OF	NOT THE OWNER.		X		NA							-	
3.10 Does the TGS clearly define pedestrian routes,3.11 Does the TGS consider Cyclists, can Cyclists tr			60.5	ins?	X										
Section 4 - Do the works involve ex			MALLE	(If answer		roceed	to section	5)							Enter
Section 4 - Bo the works involve ex	YES		ILO (NO	III allswell	ed no p			of risks if answered	no to any que	stion					Risk Rating
4.1 Are excavations to be less then 200mm in depth/															, tating
4.2 Are excavations to be less then 500mm in depth?	, [*												
	5.1														
Section 5 - Other Hazards & Risks	5.2													_	
	5.3	-												-	
Diek Management	5.4	E d'aborés v	#	Carte Barbaration of		Charles and		- Baran Baran	0-1-1	niconii		MILIO Di-			(Comment
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									Low -	L C6	C5	C4	C3	C2 VH	C1
									Very likely	L2 M	M	Н	Н	VH	VH
									0	L3 L	M	M	H M	H	УН
									-	L5 L	L	L	M	M	Н
									Almost	L6 L	L	L	L	M	М
									Refer to TCAN			criptions (of Likelih	ood	
TGS Designer:															
TGS Approved by:															
One up Manager:															
Document: Traffic Guidance Schem															

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3m to

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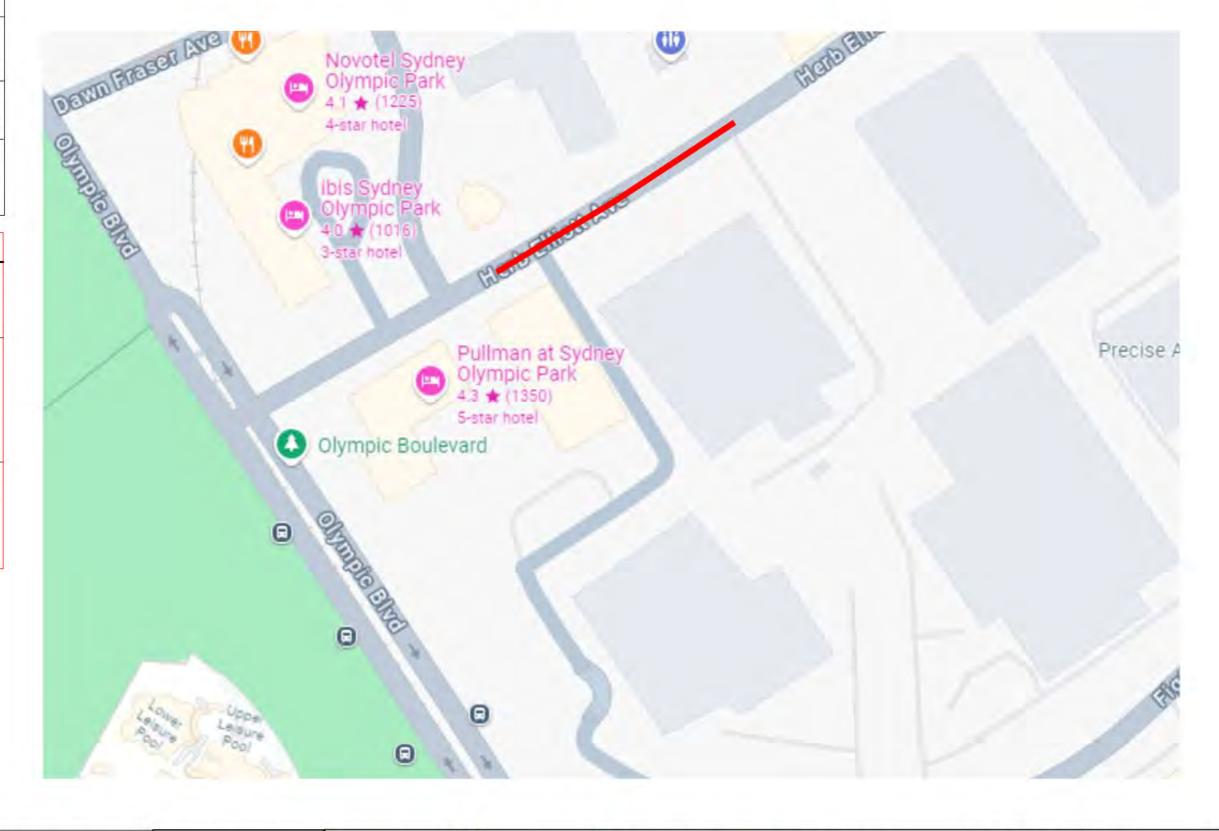
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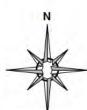
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TRAFFIC GUIDANCE SCHEME





PROJECT: SYDNEY METRO WEST - CENTRAL TUNNEL PACKAGE

LEGEND







Traffic Cones





● ● Sign (2 posts)



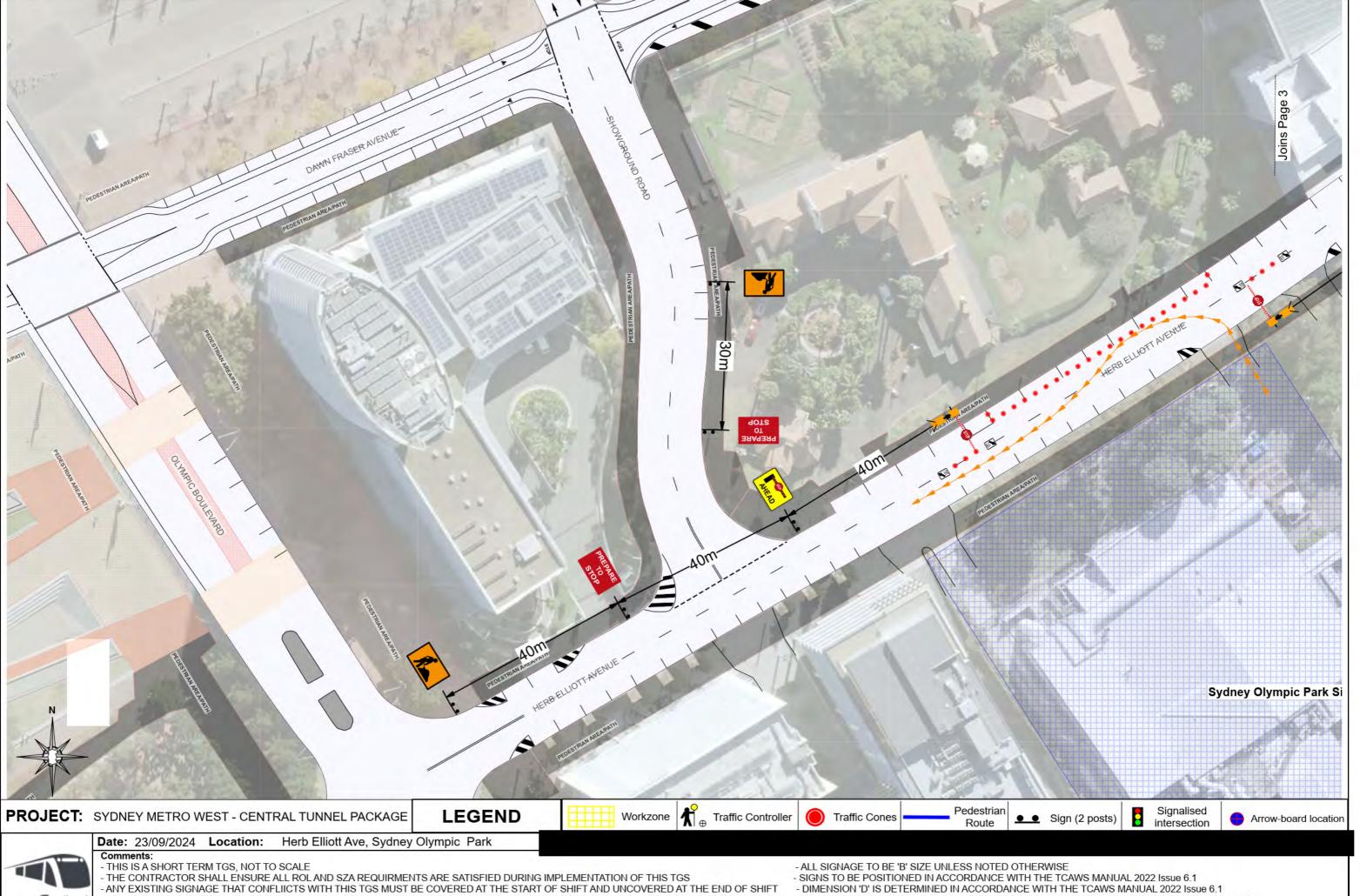
Arrow-board location

REV - 00



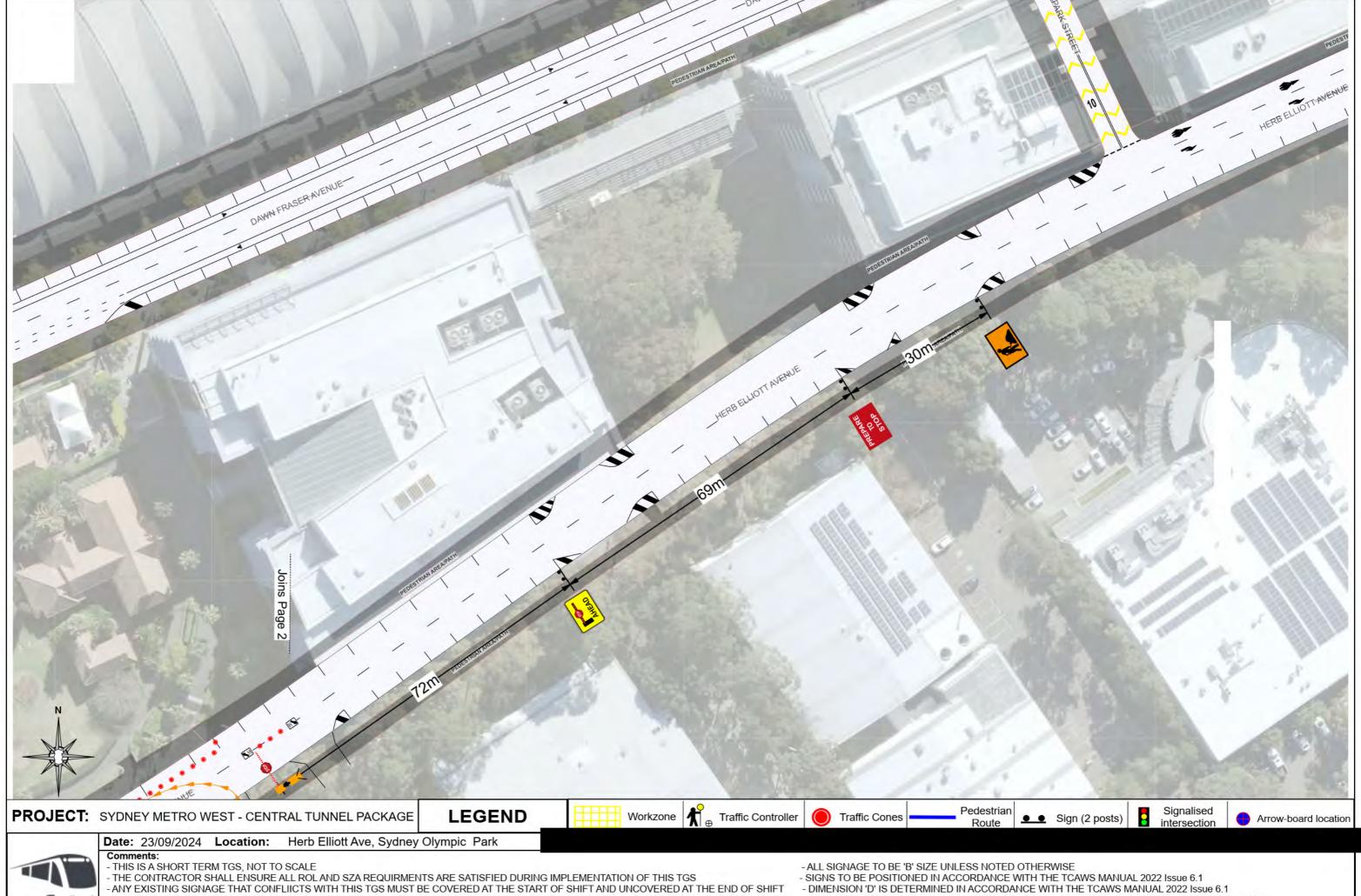
Date: 23/09/2024 Location: Herb Elliott Ave, Sydney Olympic Park

- THE CONTRACTOR SHALL ENSURE ALL ROL AND SZA REQUIRMENTS ARE SATISFIED DURING IMPLEMENTATION OF THIS TGS
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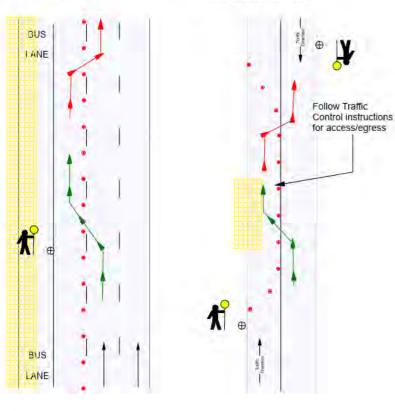


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Site Access & Egress, generic examples

MULTI LANE ROAD

SIGNLE LANE ROAD



1. Any vehicles entering site, must be fitted with at-least x1 flashing/rotating beacon and a working UHF radio.

- 2. Vehicle entering site is to activate the beacon and announce intent via use of UHF radio min 100m in advance of the access location. 3. Vehicle entering site must activate the indicator
- 4. Vehicle entering site is to steadily reduce speed (no sudden breaking) before entering site.

Traffic Control are ensure access point has been determined at prestart, and is controlled to ensure safe movements.

Egress:

Access:

- 1. Any vehicles exiting site, must be fitted with at-least x1 flashing/rotating beacon and a working UHF radio.
- 2. Vehicle exiting site is to ensure the beacon has been activated and announce intent via use of
- 3. Vehicle exiting site must activate the indicator
- 4. Vehicle exiting site is to Give-Way to public traffic and only exit site, when a clear gap exists AND Traffic Control has advised 'safe to do so'.
- 5. Vehicle exiting site is to ensure the beacon has been deactivated, AFTER exiting site and the vehicle speed has increased to match the speed

been determined at prestart, and is controlled to ensure safe movements.

Traffic Control site setup, generic examples

MULTI LANE ROAD 60km/h or below

NOTES:

SIGNLE LANE ROAD 60km/h or below

NOTES:

- 1. Look for a safe location to pull over
- Ensure vehicle mounted warning devices are on 3. Do NOT use the arrow board to direct vehicles onto the incorrect side of the road.
- 4. Avoid entering areas behind the traffic control vehicle or on the road (as shown in red).
- Ensure you have read, understand and comply with the Safe Work Method Statement.



- UHF radio, prior to attempting egress.

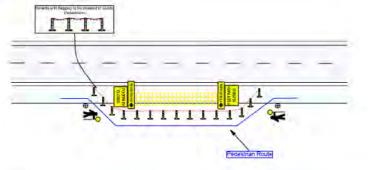
Traffic Control are ensure Egress point has

1. Ensure advance warning VMS vehicle is in place, or x2 static lane status signs have been installed, in advance of the area where the TMA will 2. Ensure vehicle mounted warning devices are on 3. Ensure vehicle mounted arrow boards are on and 4. Avoid entering areas behind the traffic control vehicle or on the road (as shown in red). 5. Ensure you have read, understand and comply with Install sign the Safe Work Method Statement. 6. D = speed limit in meters Install sign

Pedestrian management, generic examples

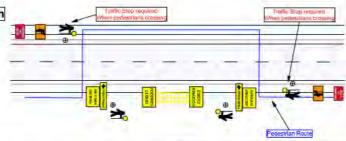
Option 1: Divert Pedestrians around the worksite

- THIS IS NOT A TRAFFIC CONTROL PLAN this is a Pedestrian Management plan only. refer to a Traffic Control Plan for setup on roadway - Bollards and flagging to be used
- to guide pedestrians Traffic Controllers to guide pedestrians around the worksite
- Pedestrian diversion area MUST be clear, level, easily traversable for all pedestrians and free from any hazards



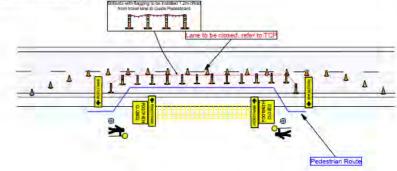
Option 2: Divert Pedestrians onto the adjacent footpath

- THIS IS NOT A TRAFFIC CONTROL PLAN. this is a Pedestrian Management plan only, refer to a Traffic Control Plan for setup on roadway.
- Traffic Controllers to Stop traffic in accordance with an approved Traffic Control Plan when pedestrians
- cross the road
- Traffic Controllers to guide pedestrians Pedestrian diversion area MUST be clear, level, easily traversable for all pedestrians and free from



Option 3: Divert Pedestrians around the worksite using the roadway

- THIS IS NOT A TRAFFIC CONTROL PLAN this is a Pedestrian Management plan only, refer to a Traffic Control Plan for setup on roadway
- Bollards and flagging to be used to guide Pedestrians, Bollards and flagging to be offset
- Minimum of 1.5m from the travel lane. - Traffic speed to be reduced to 40km/h
- Traffic Controllers to guide pedestrians around the worksite
- Pedestrians diversion area MUST be clear, level, easily traversable for all pedestrians and free from any hazards
- Traffic Lane or Shoulder to be closed in accordance with an approved Traffic Control Plan.

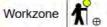


IMPORTANT:

- 1. For Shared Paths minimum 3m width must be maintained.
- 2. For Footpaths minimum 1.5m width must be maintained.
- 3. If the existing width of a Shared Path or Footpath is less then 3m or 1.5m respectively, the existing width must be maintained
- 4. When the above is not possible, changes to Paths must be detailed on the TGS.

PROJECT: SYDNEY METRO WEST - CENTRAL TUNNEL PACKAGE

LEGEND



Traffic Controller



Traffic Cones



Sign (2 posts)

Signalised intersection

Arrow-board location

Date: 23/09/2024 Location:

Comments:

- THIS IS A SHORT TERM TGS, NOT TO SCALE
- THE CONTRACTOR SHALL ENSURE ALL ROL AND SZA REQUIRMENTS ARE SATISFIED DURING IMPLEMENTATION OF THIS TGS

Herb Elliott Ave, Sydney Olympic Park

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Section 1	AFJVCTP-TGS-0823	Traffic Guidance Schem	ne - Op	otions	& RISK ASS	sessmen		af.V
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Almost unprecedented L6 L L L M Refer to TCAWS Table 3-4 for descriptions of Likelihood and Consequence measures TGS Designer:							Unlikely L4 L L M N	_
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1GS Approved by:								
	1G5 Approved by:							

Document: Traffic Guidance Schem

Within 1.5m

- Speed reduced to 40km/h or below
- Delineation of worksite
- Shadow vehicle or reduce speed BELOW 40km/h

1.5m to 3m

- Speed reduction to 60km/h or below
- Delineation of worksite
- Shadow vehicle or reduce speed BELOW

3m to

- Speed reduction to 80km/h or below
- delineation of worksite
- Shadow vehicle or reduce speed BELOW

Each location of work is to be assessed to consider site conditions, including: Driver compliance, road configuration and geometry. If deemed required, additional controls are to be implemented, and noted within the Risk Assessment.

Excavation works

Depth less than 200mm

- Address within the risk assessment on
- the last page of this plan
- Delineate the area
- Separate the area from pedestrians and the public

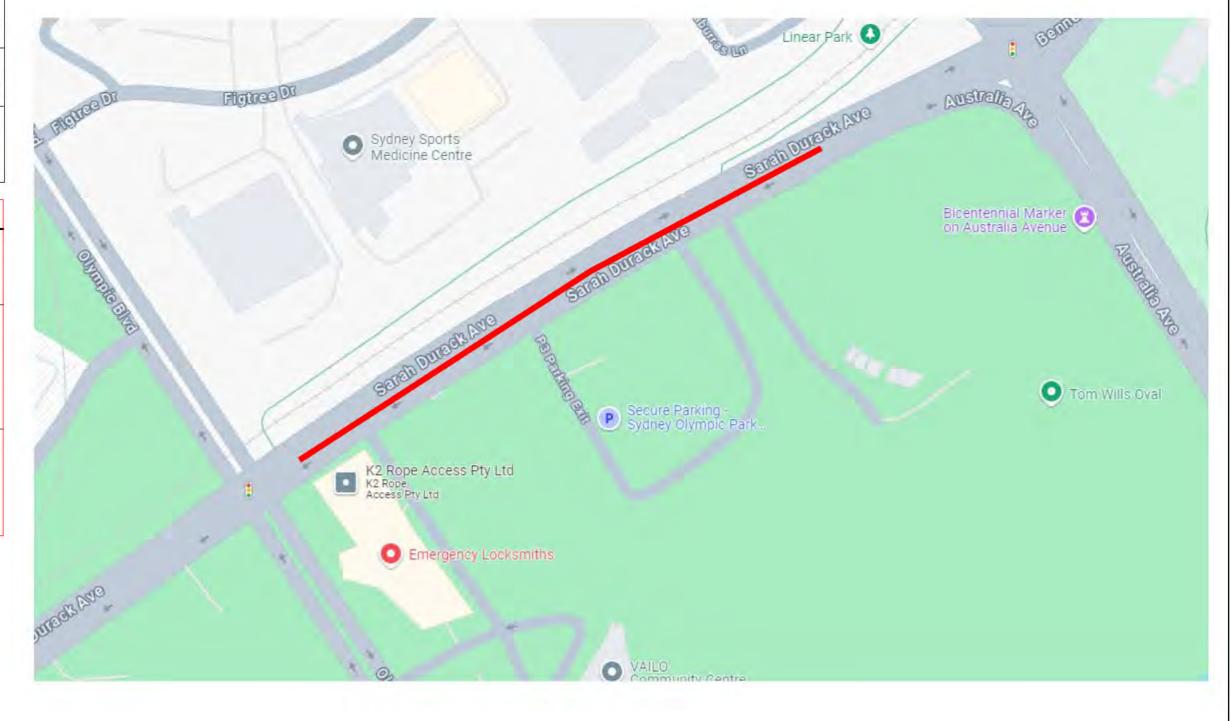
Depth over 200mm but less than

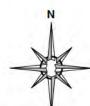
- Address within the risk assessment on the last page of this plan
- Delineate the area
- Separate the area from pedestrians and the public
- Traffic speed 40km/h or below if within 3m of the traffic lane
- Traffic speed 60km/h or below if more than 3m from traffic lane
- Traffic Manager approval

Depth over

- A number of other controls will be required and detailed on the plan, this may include: barriers, lane closures, speed reductions and other controls, as determined by the Traffic Manager in consultation with the Construction Team

TRAFFIC GUIDANCE SCHEME





PROJECT: SYDNEY METRO WEST - CENTRAL TUNNEL PACKAGE

LEGEND





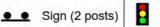
↑ Traffic Controller



Traffic Cones









Arrow-board location

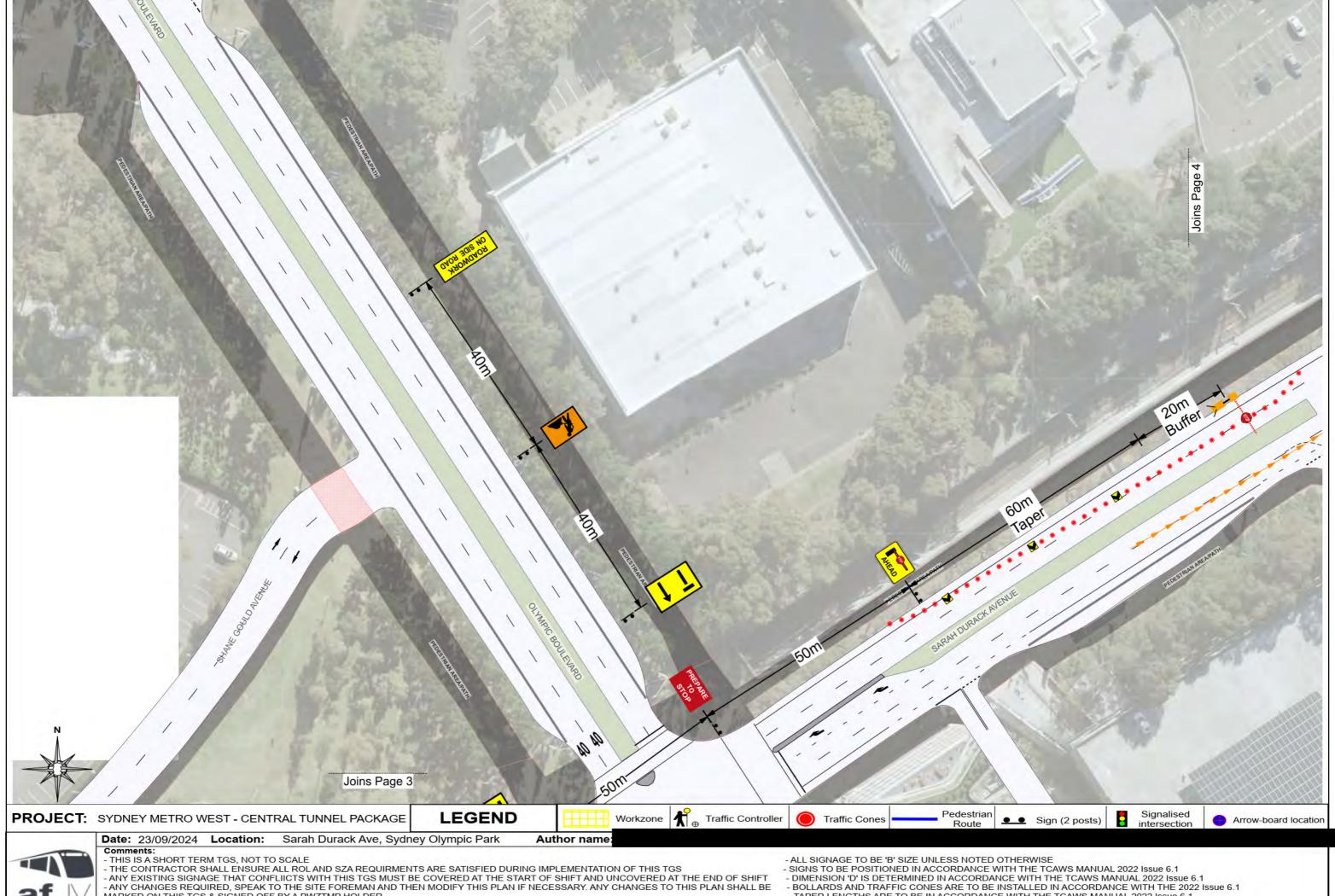


Date: 23/09/2024 Location: Sarah Durack Ave, Sydney Olympic Park

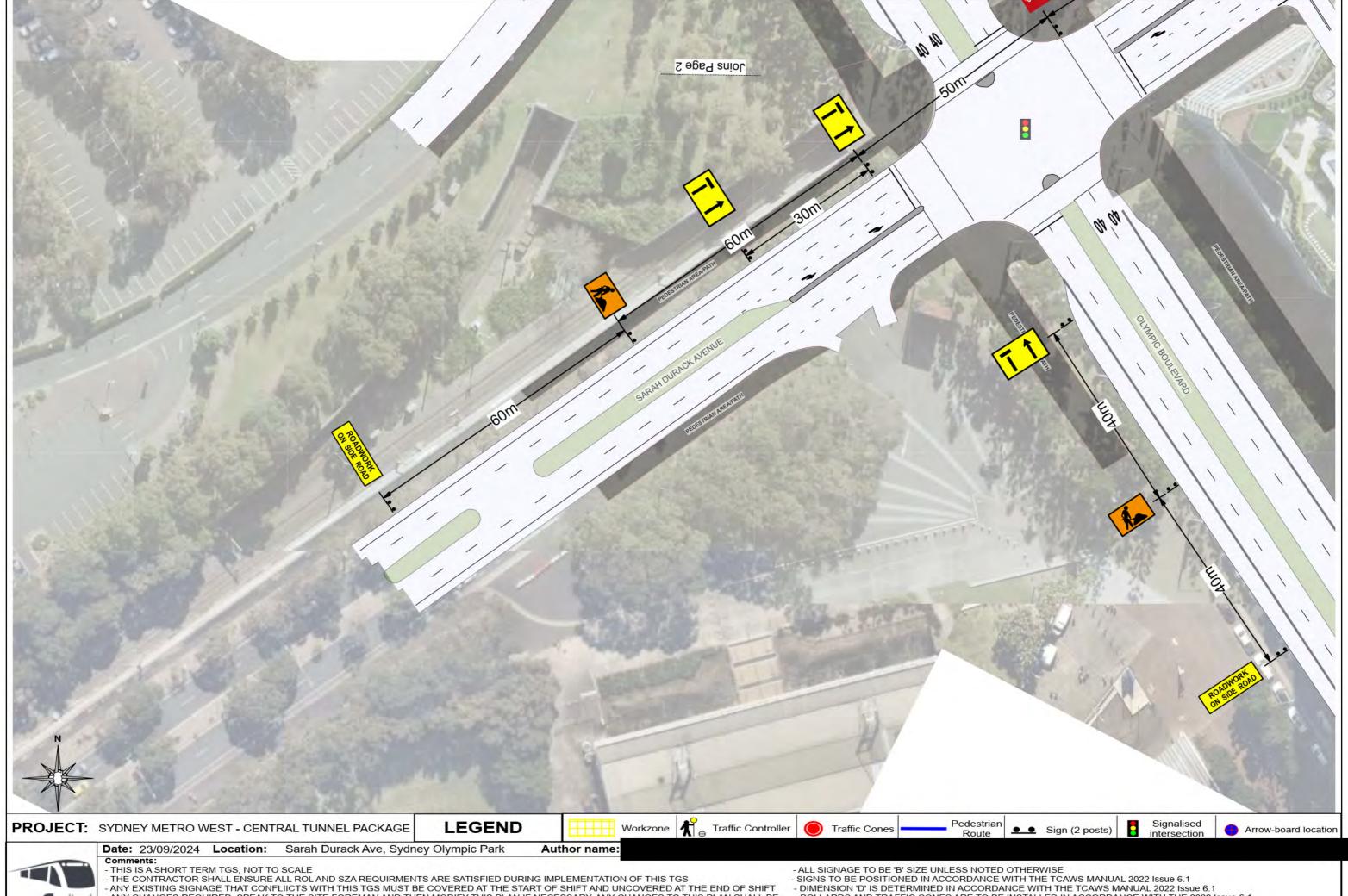
Author name:

- THIS IS A SHORT TERM TGS, NOT TO SCALE
- THE CONTRACTOR SHALL ENSURE ALL ROL AND SZA REQUIRMENTS ARE SATISFIED DURING IMPLEMENTATION OF THIS TGS
- ANY EXISTING SIGNAGE THAT CONFLICTS WITH THIS TGS MUST BE COVERED AT THE START OF SHIFT AND UNCOVERED AT THE END OF SHIFT
- ANY CHANGES REQUIRED, SPEAK TO THE SITE FOREMAN AND THEN MODIFY THIS PLAN IF NECESSARY. ANY CHANGES TO THIS PLAN SHALL BE
- MARKED ON THIS TGS & SIGNED OFF BY A PWZTMP HOLDER.
- A LANE WIDTH OF 3.5m (MINIMUM) IS TO BE MAINTAINED AT ALL TIMES UNLESS NOTED OTHERWISE
- SHOULDER WIDTH / EDGE CLEARANCE TO TRAFFIC CONES OF 0.5m IS TO BE PROVIDED AT ALL TIMES UNLESS NOTED OTHERWISE
- ALL SIGNAGE TO BE 'B' SIZE UNLESS NOTED OTHERWISE
- SIGNS TO BE POSITIONED IN ACCORDANCE WITH THE TCAWS MANUAL 2022 Issue 6.1
- DIMENSION 'D' IS DETERMINED IN ACCORDANCE WITH THE TCAWS MANUAL 2022 Issue 6.1
- BOLLARDS AND TRAFFIC CONES ARE TO BE INSTALLED IN ACCORDANCE WITH THE 2022 Issue 6.1.
- TAPER LENGTHS ARE TO BE IN ACCORDANCE WITH THE TCAWS MANUAL 2022 Issue 6.1
- THE SITE MUST COMPLY WITH THE TCAWS MANUAL 2022 Issue 6.1 AND A.S. 1742.3 - REGULATORY SPEED / ROADWORK SIGNS TO BE REPEATED EVERY 400m UNLESS NOTED OTHERWISE

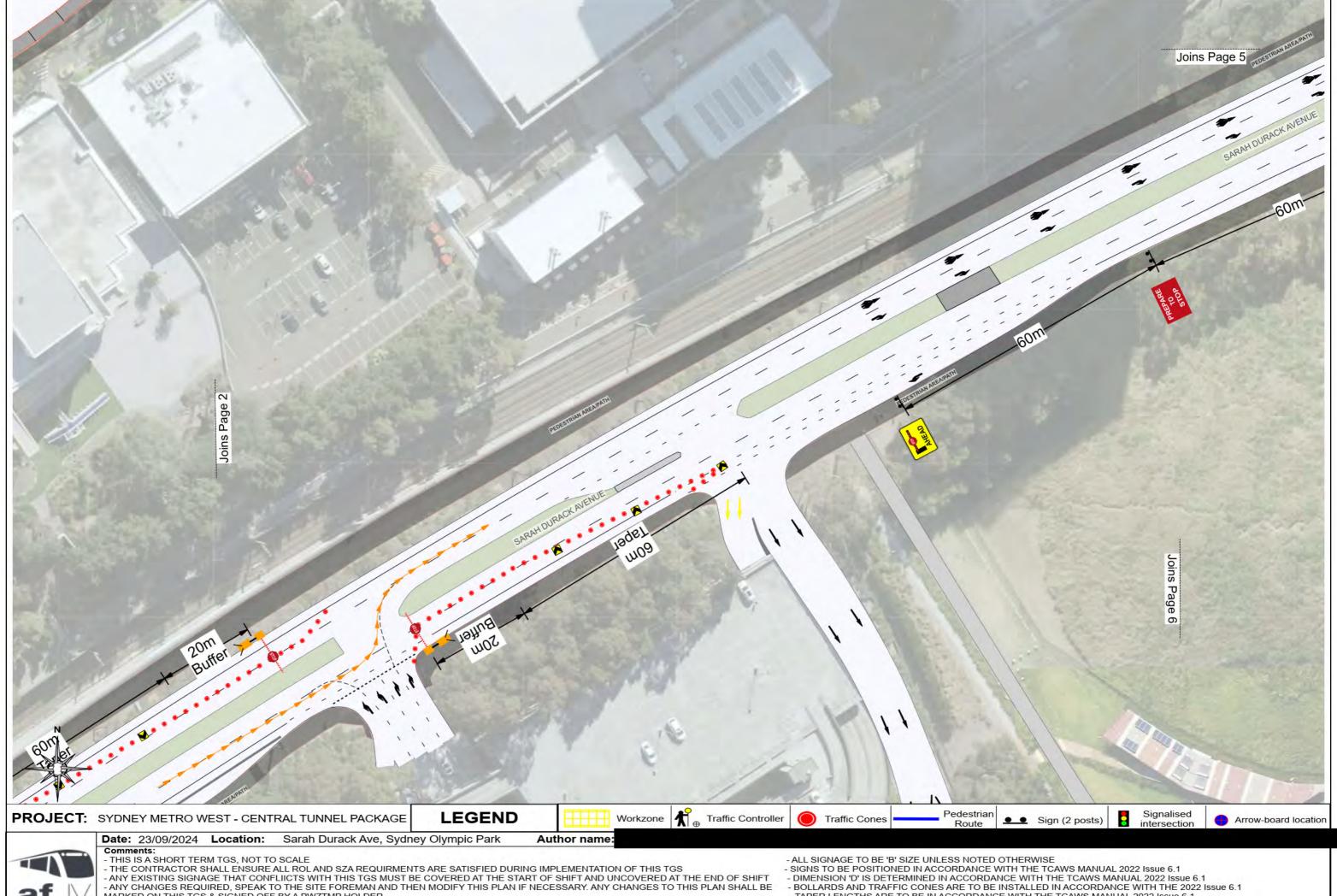
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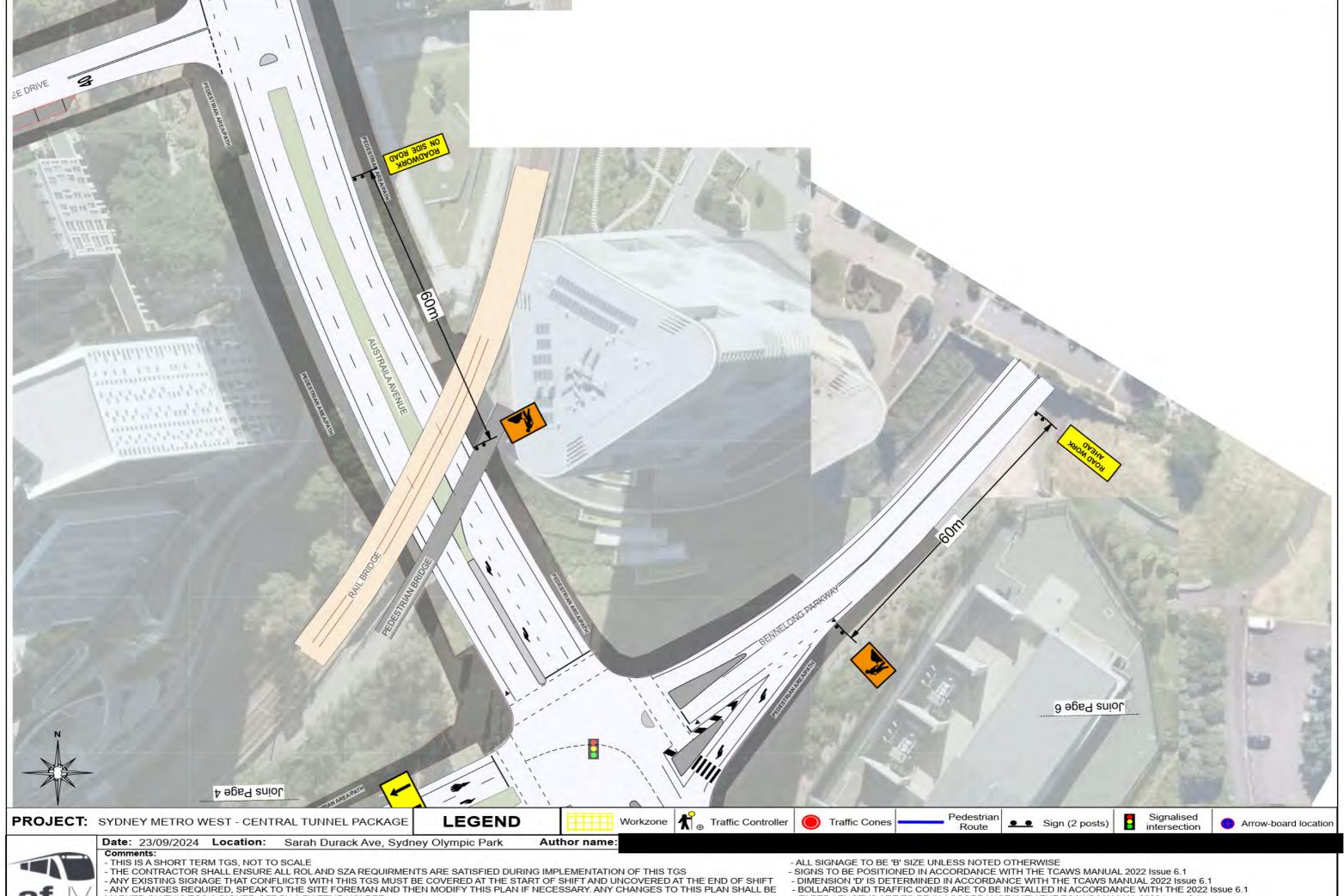


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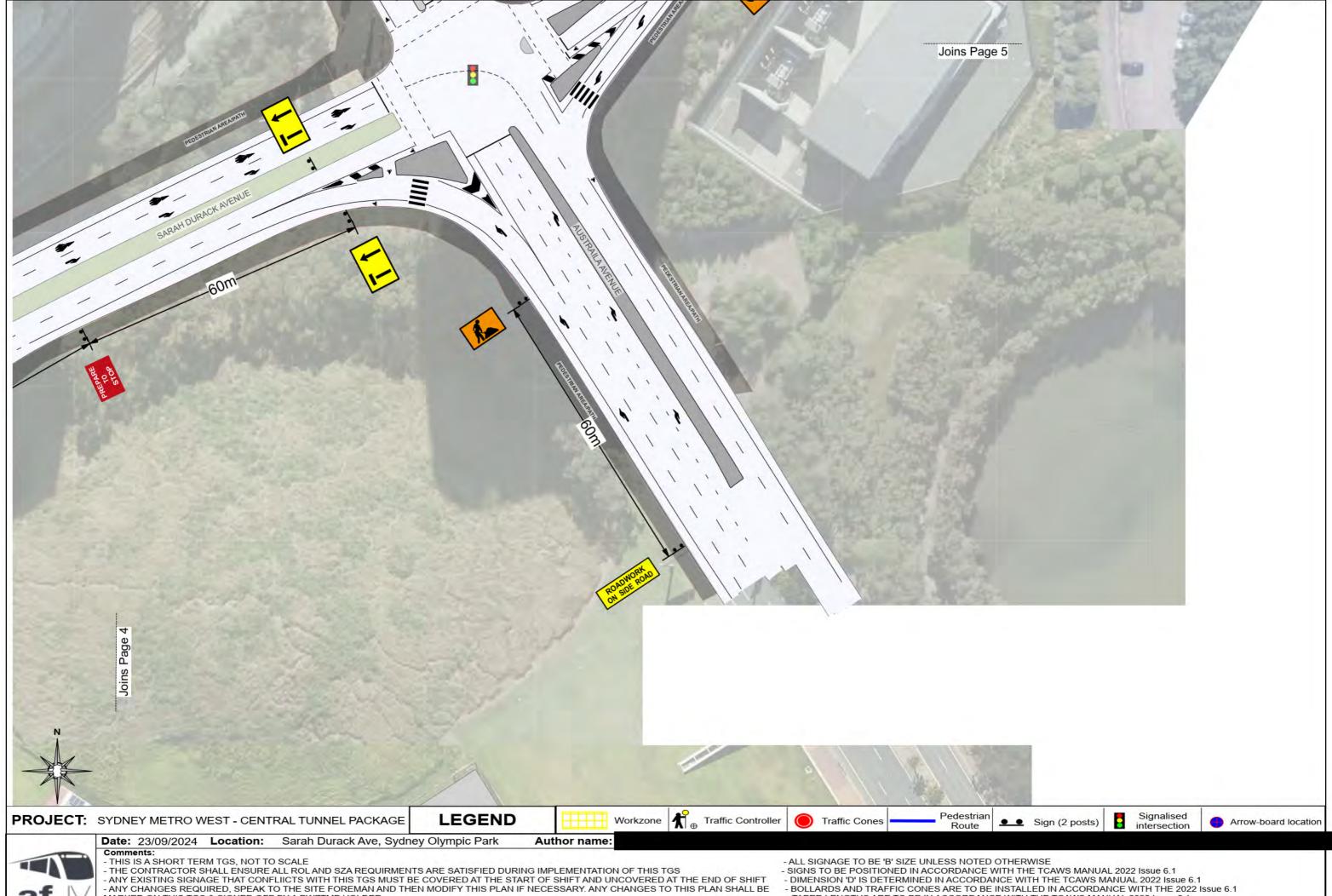




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- BOLLARDS AND TRAFFIC CONES ARE TO BE INSTALLED IN ACCORDANCE WITH THE 2022 Issue 6.1
- TAPER LENGTHS ARE TO BE IN ACCORDANCE WITH THE TCAWS MANUAL 2022 Issue 6.1 - THE SITE MUST COMPLY WITH THE TCAWS MANUAL 2022 Issue 6.1 AND A.S. 1742.3
- REGULATORY SPEED / ROADWORK SIGNS TO BE REPEATED EVERY 400m UNLESS NOTED OTHERWISE



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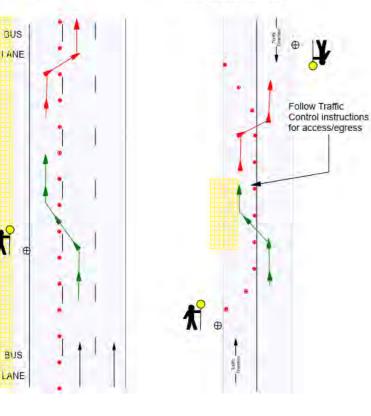


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- REGULATORY SPEED / ROADWORK SIGNS TO BE REPEATED EVERY 400m UNLESS NOTED OTHERWISE

Site Access & Egress, generic examples

MULTI LANE ROAD

SIGNLE LANE ROAD



1. Any vehicles entering site, must be fitted with at-least x1 flashing/rotating beacon and

- a working UHF radio. 2. Vehicle entering site is to activate the
- beacon and announce intent via use of UHF radio min 100m in advance of the access location. 3. Vehicle entering site must activate the indicator
- 4. Vehicle entering site is to steadily reduce speed (no sudden breaking) before entering site.

Traffic Control are ensure access point has been determined at prestart, and is controlled to ensure safe movements.

Egress:

- 1. Any vehicles exiting site, must be fitted with at-least x1 flashing/rotating beacon and
- 2. Vehicle exiting site is to ensure the beacon has been activated and announce intent via use of UHF radio, prior to attempting egress.
- 3. Vehicle exiting site must activate the indicator
- 4. Vehicle exiting site is to Give-Way to public traffic and only exit site, when a clear gap exists AND Traffic Control has advised 'safe to do so'.
- 5. Vehicle exiting site is to ensure the beacon has been deactivated, AFTER exiting site and the vehicle speed has increased to match the speed

been determined at prestart, and is controlled to ensure safe movements

Traffic Control site setup, generic examples

MULTI LANE ROAD 60km/h or below

NOTES:

1. Ensure advance warning VMS vehicle is in

place, or x2 static lane status signs have been

installed, in advance of the area where the TMA will

2. Ensure vehicle mounted warning devices are on

4. Avoid entering areas behind the traffic control

3. Ensure vehicle mounted arrow boards are on and

vehicle or on the road (as shown in red).

5. Ensure you have read, understand and comply with

SIGNLE LANE ROAD 60km/h or below

NOTES:

- 1. Look for a safe location to pull over
- Ensure vehicle mounted warning devices are on 3. Do NOT use the arrow board to direct vehicles onto the incorrect side of the road.
- 4. Avoid entering areas behind the traffic control vehicle or on the road (as shown in red).
- Ensure you have read, understand and comply with the Safe Work Method Statement.
- Install sign

Access:

- a working UHF radio.

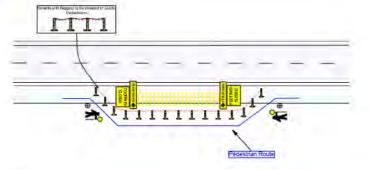
Traffic Control are ensure Egress point has

the Safe Work Method Statement. 6. D = speed limit in meters Install sign

Pedestrian management, generic examples

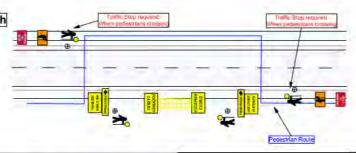
Option 1: Divert Pedestrians around the worksite

- THIS IS NOT A TRAFFIC CONTROL PLAN this is a Pedestrian Management plan only, refer to a Traffic Control Plan for setup on roadway - Bollards and flagging to be used
- to guide pedestrians Traffic Controllers to guide pedestrians around
- the worksite Pedestrian diversion area MUST be clear, level, easily traversable for all pedestrians and free from any hazards



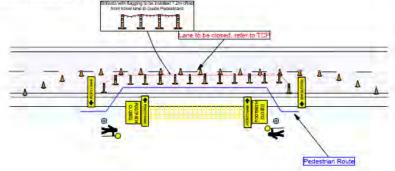
Option 2: Divert Pedestrians onto the adjacent footpath

- THIS IS NOT A TRAFFIC CONTROL PLAN. this is a Pedestrian Management plan only, refer to a Traffic Control Plan for setup on roadway.
- Traffic Controllers to Stop traffic in accordance with an approved Traffic Control Plan when pedestrians
- cross the road
- Traffic Controllers to guide pedestrians Pedestrian diversion area MUST be clear, level. easily traversable for all pedestrians and free from



Option 3: Divert Pedestrians around the worksite using the roadway

- THIS IS NOT A TRAFFIC CONTROL PLAN this is a Pedestrian Management plan only, refer to a Traffic Control Plan for setup on roadway.
- Bollards and flagging to be used to guide Pedestrians, Bollards and flagging to be offset
- Minimum of 1.5m from the travel lane. - Traffic speed to be reduced to 40km/h
- Traffic Controllers to guide pedestrians around the worksite
- Pedestrians diversion area MUST be clear, level, easily traversable for all pedestrians and free from any hazards
- Traffic Lane or Shoulder to be closed in accordance with an approved Traffic Control Plan.



IMPORTANT:

- 1. For Shared Paths minimum 3m width must be maintained.
- 2. For Footpaths minimum 1.5m width must be maintained.
- 3. If the existing width of a Shared Path or Footpath is less then 3m or 1.5m respectively, the existing width must be maintained
- 4. When the above is not possible, changes to Paths must be detailed on the TGS.

PROJECT: SYDNEY METRO WEST - CENTRAL TUNNEL PACKAGE





Traffic Controller



Traffic Cones







Arrow-board location

Date: 23/09/2024 Location:

- Sarah Durack Ave, Sydney Olympic Park
- Author name:
- Comments:
- THIS IS A SHORT TERM TGS, NOT TO SCALE THE CONTRACTOR SHALL ENSURE ALL ROL AND SZA REQUIRMENTS ARE SATISFIED DURING IMPLEMENTATION OF THIS TGS
- ANY EXISTING SIGNAGE THAT CONFLIICTS WITH THIS TGS MUST BE COVERED AT THE START OF SHIFT AND UNCOVERED AT THE END OF SHIFT

LEGEND

- ANY CHANGES REQUIRED, SPEAK TO THE SITE FOREMAN AND THEN MODIFY THIS PLAN IF NECESSARY. ANY CHANGES TO THIS PLAN SHALL BE
- MARKED ON THIS TGS & SIGNED OFF BY A PWZTMP HOLDER.
- A LANE WIDTH OF 3.5m (MINIMUM) IS TO BE MAINTAINED AT ALL TIMES UNLESS NOTED OTHERWISE
- SHOULDER WIDTH / EDGE CLEARANCE TO TRAFFIC CONES OF 0.5m IS TO BE PROVIDED AT ALL TIMES UNLESS NOTED OTHERWISE
- ALL SIGNAGE TO BE 'B' SIZE UNLESS NOTED OTHERWISE
- SIGNS TO BE POSITIONED IN ACCORDANCE WITH THE TCAWS MANUAL 2022 Issue 6.1
- DIMENSION 'D' IS DETERMINED IN ACCORDANCE WITH THE TCAWS MANUAL 2022 Issue 6.1
- BOLLARDS AND TRAFFIC CONES ARE TO BE INSTALLED IN ACCORDANCE WITH THE 2022 Issue 6.1
- THE SITE MUST COMPLY WITH THE TCAWS MANUAL 2022 Issue 6.1 AND A.S. 1742.3 - REGULATORY SPEED / ROADWORK SIGNS TO BE REPEATED EVERY 400m UNLESS NOTED OTHERWISE
- TAPER LENGTHS ARE TO BE IN ACCORDANCE WITH THE TCAWS MANUAL 2022 Issue 6.1

Location Details Road Sarah Durack Ave Direction N E S W	Sub							afJV
	Sub	urb Sydney O	vmpic P	ark	Cid	la Ctraat	Australia Ave	
Direction (N) E S W				-				
Ontions Assessment	Speed of roa	ad 60 km/h	n Sp	eed of	Side Stre	ets 60	km/h	
Options Assessment Method selected Around	Past Th	rough						
			iolalas a		ne wanta	w/twoffin no	foot	
Reason for selection Traffic and Ped	desrtains can	pass while main	taining s	umci	ent worke	er/tramic of	rset.	
Risk Assessment Section 1 - Does the TGS Involve De	tours of traffic?	YES NO	lf answere	d no pr	oceed to se	ction 2)		Enter Risk
			YES	NO	E	nter description	of risks if answered no to any question	Rating
1.1 Are detour routes suitable for all vehicle classes be	ing detoured?							
1.2 Is access to local residence and business maintain	ed							
1.3 Are detour signs located at decision points, to clear		THE RESERVE TO SERVE TO SERVE						
1.4 Can roads and intersections used as detour routes								
1.5 Is the same level of safety maintained for turn move			ns					
being sent through a detour route that involves turn mo			NO "					
Section 2 - Does the TGS involve Sto	p/Slow arrang	ements? YES		answe	red no proce	eed to section	n 3)	Enter Risk
			YES	NO	E	Enter description	of risks if answered no to any question	Rating
2.1 Are escape routes clearly defined on the TGS, clear	ar and safe to use?		X		4			
2.2 Is a PTCD used in place of a manual Traffic Control	oller where existing sp	eed is greater then 45km/			*			
2.3 Is the operating speed of the road 60km/h or less v	where Traffic Control o	or PTCD are in use?	X					
2.4 Are x4 traffic cones placed on the edge or center lin	ne, approaching the tr	affic controller or PTCD?	X					
2.5 Is prepare to stop and Traffic Control or PTCD sym	bolic signs installed?		X					
2.6 Do Traffic Control and PTCD positions have adequ	ate lighting during low	light conditions	X					
2.7 Does sight distance of at least 1.5D exist on approa	ach to Traffic Control o	or PTCD	X					
Section 3 - General			YES	NO	E	Enter description	n of risks if answered no to any question	Enter Risk Rating
3.1 Does the TGS define minimum clearances required	d of workers to live trat	ffic are distances complia	nt? X					
3.2 Are worker symbolic signs to be placed in advance		Total Control Paris Control						
3.3 Are all signs placed at correct distances? i.e. D for		Visit Telephone Company	V					
3.4 Are taper lengths compliant and not placed in areas			X]			
3.5 Are lane status signs placed in advance of a lane m			X					
3.6 Are the correct tapers being used? i.e. merge taper	AND THE RESERVE OF TH	lateral shift taper.	X		1			
3.7 Does the TGS clearly define transition zones between			nt?		NA			
3.8 Does the TGS clearly define Buffer areas, are they	compliant and at leas	t 30m in length?			NA			
3.9 Does the TGS clearly define site access and egres:			1? X		1			
3.10 Does the TGS clearly define pedestrian routes, ar	C. Samuel Carlotte Co. Carlotte	T TA FAR AT A TOTAL	X					
3.11 Does the TGS consider Cyclists, can Cyclists tran			X					
Section 4 - Do the works involve exce	S. State and S. State					-\		Fatia
Section 4 - Do the works involve exca	YES NO	ES (NO)(If ans)	wered no p				ed no to any question	Enter Risk Rating
4.1 Are excavations to be less then 200mm in depth?							-, 111	
4.2 Are excavations to be less then 500mm in depth?	*							
	5.1							
0 " 5 0" 11 1 2 8 8 1	5.2							
Section 5 - Other Hazards & Risks	5.3							
	5.4							
Risk Management Any Risks Identified		ahovo Rick Assassment r	nuet ha acca	send wit	o control moss	uras listad bala	w. Control measures must meet the WHS Risk Ma	nagement Hierary
of controls framewo	ork.		nust be asse	sseu, wit	r control meas	Remaining	1	nagement rilerare
Item	Control Measu	res				Risk Ratin	Risk evaluation Matrix	
							Risk Very high - VH Consequence ratings: High - H Institutional Major Medium - M Institutional Major Major Medium - M Institutional Major Maj	
							Low - L C6 C5 C4 C3	
							Almost L1 M H H	
							Very L2 M M H H	
							Likely L3 L M M H	
							Very unlikely L5 L L L M	
							Almost unprecedented L6 L L L L	M M
							and the second	- 40
							Refer to TCAWS Table 3-4 for descriptions of Lik	elihood
							and Consequence measures	
TGS Designer:								
TGS Approved by: One up Manager:								

Document: Traffic Guidance Sche

WWW.IIIVailoii.com

Within 1.5m

- Speed reduced to 40km/h or below
- Delineation of worksite
- Shadow vehicle or reduce speed BELOW 40km/h

1.5m to 3m

- Speed reduction to 60km/h or below
- Delineation of worksite
- Shadow vehicle or reduce speed BELOW

3m to

- Speed reduction to 80km/h or below - delineation of worksite
- Shadow vehicle or reduce speed BELOW

Each location of work is to be assessed to consider site conditions, including: Driver compliance, road configuration and geometry. If deemed required, additional controls are to be implemented, and noted within the Risk Assessment.

Excavation works

Depth less than 200mm

- Address within the risk assessment on
- the last page of this plan
- Delineate the area
- Separate the area from pedestrians and the public

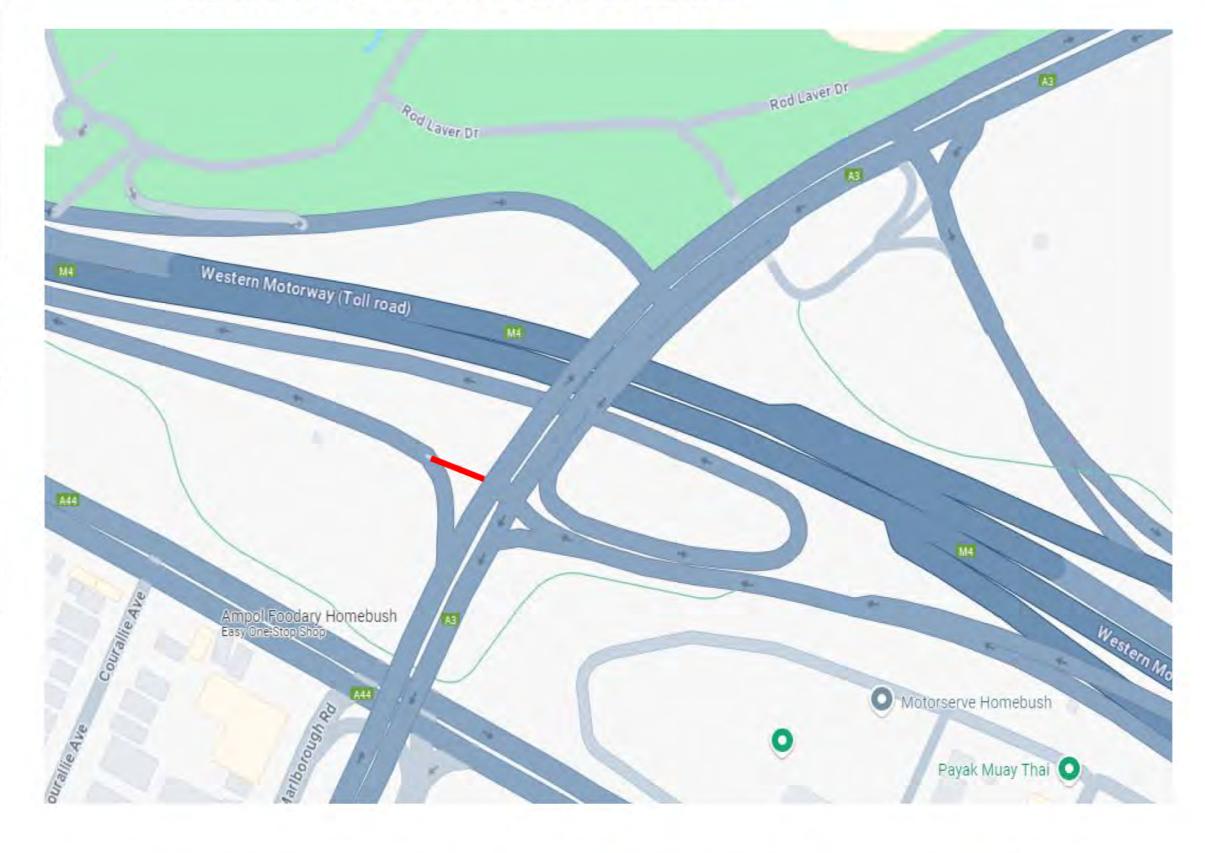
Depth over 200mm but less than

- Address within the risk assessment on the last page of this plan
- Delineate the area
- Separate the area from pedestrians and the public
- Traffic speed 40km/h or below if within 3m of the traffic lane
- Traffic speed 60km/h or below if more than 3m from traffic lane
- Traffic Manager approval

Depth over

- A number of other controls will be required and detailed on the plan, this may include: barriers, lane closures, speed reductions and other controls, as determined by the Traffic Manager in consultation with the Construction Team

TRAFFIC GUIDANCE SCHEME





PROJECT: SYDNEY METRO WEST - CENTRAL TUNNEL PACKAGE

LEGEND





↑ Traffic Controller



Traffic Cones

Pedestrian Route

● Sign (2 posts)

intersection

Arrow-board location

REV - 00



Date: 23/09/2024 Location: Homebush Bay Dr, Sydney Olympic Park

Author name:

Comments:

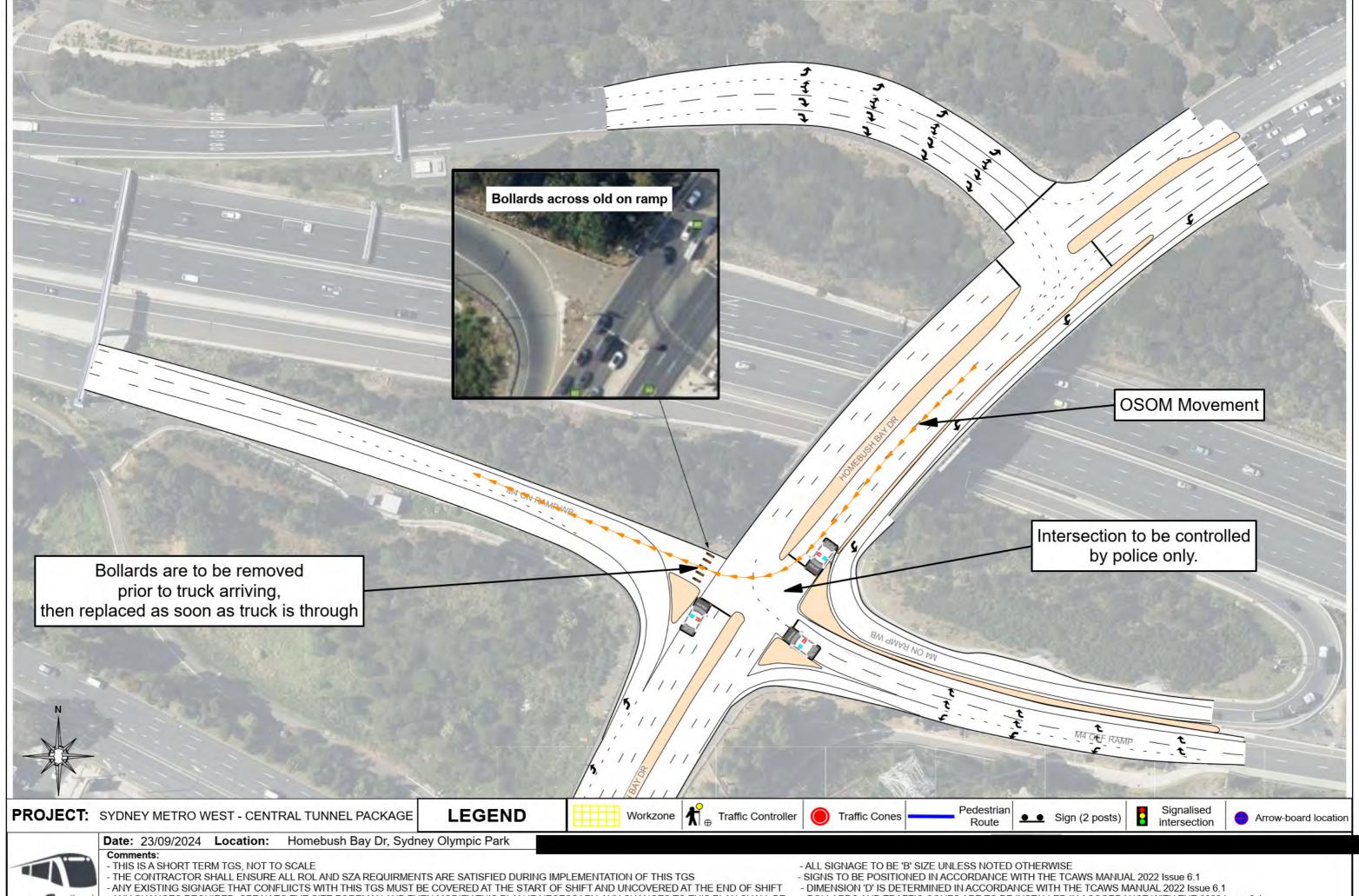
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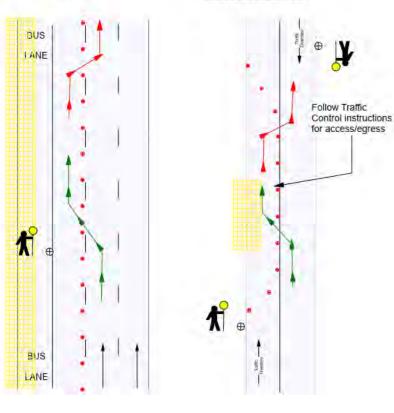
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Site Access & Egress, generic examples

MULTI LANE ROAD

SIGNLE LANE ROAD



1. Any vehicles entering site, must be fitted with at-least x1 flashing/rotating beacon and

- a working UHF radio. 2. Vehicle entering site is to activate the
- beacon and announce intent via use of UHF radio min 100m in advance of the access location. 3. Vehicle entering site must activate the indicator
- 4. Vehicle entering site is to steadily reduce speed (no sudden breaking) before entering site.

Traffic Control are ensure access point has been determined at prestart, and is controlled to ensure safe movements.

Egress:

- 1. Any vehicles exiting site, must be fitted with at-least x1 flashing/rotating beacon and
- 2. Vehicle exiting site is to ensure the beacon has been activated and announce intent via use of UHF radio, prior to attempting egress.
- 3. Vehicle exiting site must activate the indicator
- 4. Vehicle exiting site is to Give-Way to public traffic and only exit site, when a clear gap exists AND Traffic Control has advised 'safe to do so'.
- 5. Vehicle exiting site is to ensure the beacon has been deactivated, AFTER exiting site and the vehicle speed has increased to match the speed

Traffic Control are ensure Egress point has been determined at prestart, and is controlled to ensure safe movements.

Traffic Control site setup, generic examples

MULTI LANE ROAD 60km/h or below

NOTES:

SIGNLE LANE ROAD 60km/h or below

NOTES:

- 1. Look for a safe location to pull over
- Ensure vehicle mounted warning devices are on 3. Do NOT use the arrow board to direct vehicles onto the incorrect side of the road.
- 4. Avoid entering areas behind the traffic control vehicle or on the road (as shown in red).
- Ensure you have read, understand and comply with the Safe Work Method Statement.
- Install sign

Access:

- a working UHF radio.

place, or x2 static lane status signs have been installed, in advance of the area where the TMA will 2. Ensure vehicle mounted warning devices are on 3. Ensure vehicle mounted arrow boards are on and 4. Avoid entering areas behind the traffic control vehicle or on the road (as shown in red). 5. Ensure you have read, understand and comply with the Safe Work Method Statement. 6. D = speed limit in meters Install sign

1. Ensure advance warning VMS vehicle is in

Pedestrian management, generic examples

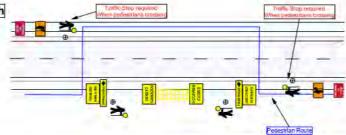
Option 1: Divert Pedestrians around the worksite

- THIS IS NOT A TRAFFIC CONTROL PLAN this is a Pedestrian Management plan only. refer to a Traffic Control Plan for setup on roadway
- Bollards and flagging to be used to guide pedestrians Traffic Controllers to guide pedestrians around
- the worksite Pedestrian diversion area MUST be clear, level,
- easily traversable for all pedestrians and free from any hazards

Option 2: Divert Pedestrians onto the adjacent footpath

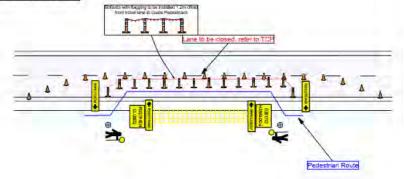
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- cross the road
- Traffic Controllers to guide pedestrians Pedestrian diversion area MUST be clear, level. easily traversable for all pedestrians and free from

Comments:



Option 3: Divert Pedestrians around the worksite using the roadway

- THIS IS NOT A TRAFFIC CONTROL PLAN this is a Pedestrian Management plan only,
- refer to a Traffic Control Plan for setup on roadway - Bollards and flagging to be used to guide Pedestrians, Bollards and flagging to be offset
- Minimum of 1.5m from the travel lane.
- Traffic speed to be reduced to 40km/h - Traffic Controllers to guide pedestrians around the worksite
- Pedestrians diversion area MUST be clear, level, easily traversable for all pedestrians and free from any hazards
- Traffic Lane or Shoulder to be closed in accordance with an approved Traffic Control Plan.

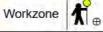


IMPORTANT:

- 1. For Shared Paths minimum 3m width must be maintained.
- 2. For Footpaths minimum 1.5m width must be maintained.
- 3. If the existing width of a Shared Path or Footpath is less then 3m or 1.5m respectively, the existing width must be maintained.
- 4. When the above is not possible, changes to Paths must be detailed on the TGS.

PROJECT: SYDNEY METRO WEST - CENTRAL TUNNEL PACKAGE

LEGEND



Traffic Controller



Traffic Cones



Sign (2 posts)

Signalised intersection

Arrow-board location

- Date: 23/09/2024 Location: Homebush Bay Dr, Sydney Olympic Park
- THIS IS A SHORT TERM TGS, NOT TO SCALE THE CONTRACTOR SHALL ENSURE ALL ROL AND SZA REQUIRMENTS ARE SATISFIED DURING IMPLEMENTATION OF THIS TGS
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TGS Number: AFJVCTP-TGS-0825		Traffic Guidance Scho	eme - Op	otions	& Risk Ass	sessment		af.JV
Location Details		Outside Sydney Ol	vmnic B	ark	0.1	0	IA.	
Road Homebush Bay Dr	9.0.3	_ Suburb_ Sydney Ol		-		Street_		
Direction N E S (W)	Spe	ed of roadkm/r	ı Sp	eed of	Side Stree	tsNA	km/h	
Options Assessment		4.000.0						
Method selected Around	Past	Through	Anna Ta		Sen Photograph			
Reason for selection Traffic and Pe	edesrtai	ns can pass while main	taining s	suffici	ent worker	traffic of	fset.	
Risk Assessment			2.0					Enter
Section 1 - Does the TGS Involve D	etours o	of traffic? YES (NO)			oceed to sect			Risk
A A Are determined to the few all making alexands			YES	NO	Ent	er description	of risks if answered no to any question	Rating
1.1 Are detour routes suitable for all vehicle classes I		ed?						
1.2 Is access to local residence and business mainta	1175 115							
1.3 Are detour signs located at decision points, to cle1.4 Can roads and intersections used as detour route								
1.5 Is the same level of safety maintained for turn mo			ne 🗆					
being sent through a detour route that involves turn r			15					
Section 2 - Does the TGS involve S	T. F. 19.3	C. L. S. & C. C. & S. & S. & S. S.	NO	fanswe	red no procee	ed to section	13)	Enter
occion 2 Bocs the 100 mvolve o	оргоюч	arrangements: 120						Risk
	4.04.4	Section 1	YES	NO	En	ter description	of risks if answered no to any question	Rating
2.1 Are escape routes clearly defined on the TGS, cl					*			
2.2 Is a PTCD used in place of a manual Traffic Con		Programme and the second second	n'Y					
2.3 Is the operating speed of the road 60km/h or less		Company of the Compan						
2.4 Are x4 traffic cones placed on the edge or center								
2.5 Is prepare to stop and Traffic Control or PTCD sy								
2.6 Do Traffic Control and PTCD positions have adec								
2.7 Does sight distance of at least 1.5D exist on appl	oach to Trai	IIIC CONTROL OF PTCD						Enter
Section 3 - General			YES	NO	En	ter description	of risks if answered no to any question	Risk Rating
3.1 Does the TGS define minimum clearances requir	ed of worker	rs to live traffic, are distances complia	nt?		NA			
3.2 Are worker symbolic signs to be placed in advance		CONTRACTOR CONTRACTOR CONTRACTOR			NA			
3.3 Are all signs placed at correct distances? i.e. D for		The state of the s			NA			
3.4 Are taper lengths compliant and not placed in are					NA			
3.5 Are lane status signs placed in advance of a lane					NA			
3.6 Are the correct tapers being used? i.e. merge tap	18 8007.5	ontrol taper, lateral shift taper.			NA			
3.7 Does the TGS clearly define transition zones beto	veen tapers	on multilane roads, are they complian	nt?		NA			
3.8 Does the TGS clearly define Buffer areas, are the	y compliant	and at least 30m in length?			NA			
3.9 Does the TGS clearly define site access and egre	ess for work	vehicles, is impact to traffic, managed	?		NA			
3.10 Does the TGS clearly define pedestrian routes,	are the rout	es suitable for all pedestrians?			NA			
3.11 Does the TGS consider Cyclists, can Cyclists tr	ansverse the	e site safely?			NA			
Section 4 - Do the works involve ex-	cavation	s YES NO)(If answ	vered no r	oroceeo	to section 5)			Enter
essuent i de me meme invente en	YES	NO					d no to any question	Risk Rating
4.1 Are excavations to be less then 200mm in depth								Kading
4.2 Are excavations to be less then 500mm in depth?		*						
	5.1							
	5.2							
Section 5 - Other Hazards & Risks	5.3							
	5.4	January and the same of the same of			2.72.5 Co. 4.5			
Risk Management Any Risks Identifi of controls frame		d during the above Risk Assessment in	nust be asse	essed, wit	h control measur	es listed below Remaining	. Control measures must meet the WHS Risk M	anagement Hierard
Item	Cont	rol Measures				Risk Rating		
							Risk evaluation Matrix Risk Very high - VH Consequence	ce
								tajor Severe Catastro
							Almost	VH VH VH
							Very likely L2 M M H	H VH VH
							2	H H VE
							Very 15 L	M H H
							Almost L6 L L L	L M M
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APPENDIX H – HEAVY VEHICLE LOCAL ROADS (HVLR)





Sydney Olympic Park Heavy Vehicle Route

SMWSTCTP AFJ OLP TF RPT-000001 Revision 02 Sydney Metro West Central Tunnelling Package





DOCUMENT APPROVAL

	Prepared By	Reviewed By	Approved By	
Name:				
Position:				
Date:				

REVISION HISTORY

Rev:	Date:	Pages:	Ву:	Description:				
Α	14/10.2021 All			For internal review				
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02	22/12/2021	All		For submission to DPIE				



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1. INTRODUCTION

Sydney Metro is Australia's biggest public transport program. Services on the North West Metro Line between Rouse Hill and Chatswood started in May 2019. The Sydney Metro network also includes Sydney Metro City & Southwest, Sydney Metro West and Sydney Metro Western Sydney Airport Sydney Metro West is a new 24 kilometre metro line between Westmead and the Sydney CBD (the Project) This infrastructure investment will double the rail capacity of the Greater Parramatta to Sydney CBD corridor with a travel time target between the two centres of about 20 minutes The planning approvals and environmental impact assessment for Sydney Metro West has been split into a number of stages recognising the size of the project This includes:

- Stage 1 Concept and all major civil construction works including station excavation and tunnelling between Westmead and The Bays. Planning approval for this stage was granted in March 2021
- Stage 2 All major civil construction works including station excavation and tunnelling from The Bays to Sydney CBD
- Stage 3 Tunnel fit-out, construction of stations, ancillary facilities and station precincts, and operation and maintenance of the Sydney Metro West line

Due to the Project's importance, the Project was declared to be Critical State Significant Infrastructure by the Minister for Planning and Public Spaces An Environmental Impact Statement (EIS) (Jacobs/Arcadis, 2020) for the Concept and Stage 1 (herein referred to as the Project) was placed on public exhibition from 30 April 2020 to 26 June 2020. Submissions were received from government, agencies, organisations and the public in repose to the project A Submissions Report was prepared by Sydney Metro in response to submissions received during the exhibition period and an Amendment Report was prepared by Sydney Metro in 2020 as a result of continued design development and refinement The Project was approved on 11 March 2021 (SSI 10038)

Stage 1 of the Project is being delivered under a number of packages in accordance with the Sydney Metro West Phasing Report The packages include:

- Phase A Power Enabling Works
- Phase B1 Central Tunnelling Package (Civils Works)
- Phase B2 Central Tunnelling Package (Tunnelling Works)
- Phase C Parramatta, Westmead and Clyde Demolition Works
- Phase D Greater Sydney Road Works
- Phase E Existing Rail Corridor Enabling Works
- Phase F Western Tunnelling

The Central Tunnelling Package (CTP) involves the design and construction of 11km of twin tunnels and underground station excavations from The Bays to Sydney Olympic Park

This document has been prepared for the CTP for the proposal of heavy vehicles access on specific local roads within the Sydney Olympic Park not identified in Condition A1 of the Project Conditions of Approval (CoA) for Sydney Metro West, to access the CTP Sydney Olympic Park construction site

2. PURPOSE AND SCOPE

This document has been prepared to address the Sydney Metro West Central Tunnelling Package (CTP) project Condition of Approval as shown in Table 1, which includes a cross reference to where the information has been addressed within this document.



TABLE 1 RELEVANT CONDITIONS OF APPROVAL

Projec	t Planning Approval (dated 11 March (SSI 10038))	Where addressed		
D84	The primary egress routes for spoil haulage trucks at Sydney Olympic Park metro station construction site must be determined in consultation with SOPA			
D86	Local roads proposed to be used by Heavy Vehicles to directly access construction sites that are not identified in the documents listed in Condition A1 of this schedule must be approved by the Planning Secretary and be included in the CTMPs	This document		
D87	All requests to the Planning Secretary for approval to use local roads under Condition D86 above must include the following: (a) a swept path analysis;	(a) Section 3 2 Section 3 4 Appendix A		
	(b) demonstration that the use of local roads by Heavy Vehicles for the CSSI will not compromise the safety of pedestrians and cyclists of the safety of two-way traffic flow on two-way roadways;	(b) Appendix B (c) Section 3.6		
	(c) details as to the date of completion of the road dilapidation surveys for the subject local roads; and	(d) Section 3.7 (e) Section 5		
	(d) measures that will be implemented to avoid where practicable the use of local roads past schools, aged care facilities and child care facilities during their peak operation times; and	l V		
	(e) written advice from an appropriately qualified professional on the suitability of the proposed Heavy Vehicle route which takes into consideration items (a) to(d) of this condition.			
TT6	All trucks would enter and exit construction sites in a forward direction, where feasible and reasonable.	Section 3.1 Section 3.3		
TT7	Construction site traffic would be managed to minimise movements during peak periods			
TT24	Coordination and consultation with the following stakeholders would occur, where required, to manage the interface of projects under construction at the same time:	Section 4.1 Section 4.2		
	 Transport for NSW including Transport Coordination Department of Planning, Industry and Environment Sydney Trains NSW Trains Sydney Buses Sydney Water Port Authority of NSW Sydney Motorways Corporation Emergency service providers Utility providers 	Section 4.3		
	Construction contractors Coordination and consultation with these stakeholders would include: • Provision of regular updates to the detailed construction program, construction sites and haul routes			



Project Planning Approval (dated 11 March (SSI 10038))

Where addressed

- Identification of key potential conflict points with other construction projects
- Developing mitigation strategies in order to manage conflicts. Depending on the nature of the conflict this could involve:
 - Adjustments to the Sydney Metro construction program work activities or haul routes or adjustments to the program activities or haul routes of other construction projects

Coordination of traffic management arrangements between projects

The scope will cover the heavy vehicle route to be taken within Sydney Olympic Park; swept path analysis; road safety analysis; dates of road dilapidation survey; any measures to avoid schools, aged care facilities, and child care facilities; and recommendation that the route is suitability of the proposed heavy vehicle route

3. PROPOSED ROUTES

3.1 PROPOSE HEAVY VEHICLE ENTRY ROUTE

In addition to the approved EIS heavy vehicle routes, Acciona Ferrovial Joint Venture (AFJV) propose to use the following heavy vehicle route into the Sydney Olympic Park site (also shown in Figure 1):

- Australia Avenue (northbound)
- Sarah Durack Avenue (westbound)
- Olympic Boulevard (northbound)
- Herb Elliott Avenue (eastbound)





FIGURE 1 PROPOSE ADDITIONAL HEAVY VEHICLE ENTRY ROUTE TO SYDNEY OLYMPIC PARK SITE

Of those listed above, the following local roads were **not** identified in documents described in CoA A1 for access to the Sydney Olympic Park site:

- Sarah Durack Avenue (westbound)
- Olympic Boulevard (northbound)
- Herb Elliott Avenue (eastbound)

The use of these roads as construction site access has been identified in consultation with Sydney Olympic Park Authority (SOPA) as required under CoA D84. Evidence of this consultation will be included in the submission of this document to DPIE, as required in accordance with CoA A6

To provide safe access to the work sites, all trucks are to enter sites in a forward direction, where feasible and reasonable.

3.2 SWEPT PATH ANALYSIS FOR HEAVY VEHICLE ENTRY ROUTE

A swept path analysis for the above three site access roads has been undertaken to determine the suitability of these roads for heavy vehicle use This is included in **Appendix A**

Swept path analysis shows that the proposed heavy vehicle entry route is suitable for 19m prime mover and semi-trailer, and 19m truck and dog type vehicles.

One-off and special oversize deliveries will be managed under a separate process with National Heavy Vehicle Regulator. Oversize or overweight vehicles movements will comply with the National Heavy Vehicle Regulator (NHVR) where it has the authority to limit the time and route the oversize/overweight vehicle must use

3.3 PROPOSE HEAVY VEHICLE EXIT ROUTE

In addition to the approved EIS heavy vehicle route, AFJV proposed to use the following heavy vehicle route to exit the Sydney Olympic Park site (also shown in Figure 2):

- Figtree Drive (westbound)
- Olympic Boulevard (southbound)
- Sarah Durack Avenue (eastbound)
- Australia Avenue (southbound)





FIGURE 2 PROPOSE ADDITIONAL HEAVY VEHICLE EXIT ROUTE FROM SYDNEY OLYMPIC PARK SITE

Of those listed above, the following local roads were **not** identified in documents described in CoA A1 for access to the Sydney Olympic Park site:

- Figtree Drive (westbound)
- Sarah Durack Avenue (eastbound)

To provide a safe exit to the work sites, all trucks are to exit sites in a forward direction, where feasible and reasonable.

3.4 SWEPT PATH ANALYSIS FOR HEAVY VEHICLE EXIT ROUTE

A swept path analysis for the above two site exit roads has been undertaken to determine the suitability of these roads for heavy vehicle use This is included in **Appendix A**

Swept path analysis shows that the proposed heavy vehicle exit route is suitable for 19m prime mover and semi trailer, and 19m truck and dog type vehicles. This covers the general vehicle size that would be used by AFJV for spoil haulage and deliveries One-off and special oversize deliveries will be manage under a separate process with Sydney Olympic Park.

3 5 ROAD SAFETY AUDIT OF THE HEAVY VEHICLE ROUTE

A road safety audit was complete for the proposed heavy vehicle entry route and exit route Detail findings and response is included in **Appendix B**. In summary, there were no high risk items identified, and all medium risk items were considered 'improbable' in likelihood As such, the proposed entry and exit routes are acceptable routes for heavy vehicles.

3 6 ROAD DILAPIDATION SURVEY

Road dilapidation survey was completed in November 2021 (Sydney Metro, Transport for NSW, SOPA) as described in CoA D88. A copy of the dilapidation report with the photo/video records was distributed to Sydney Olympic Park Authority in accordance with CoA D87(c) on 3 December 2021

3.7 IMPACT TO SCHOOL, AGED CARE, OR CHILDCARE

Sarah Durack Avenue has footpath on both sides. The road is flanked by a train line on the northern side while the southern side is the P3 carpark. The residential property on the corner of Sarah Durack Avenue and Olympic Boulevard does not have any shops fronting Sarah Durack Avenue.

Along Olympic Boulevard between Sarah Durack Avenue and Herb Elliott Avenue, the eastern side contains a wide footpath and indented bus bay with no property frontage Along the western side there is a wide footpath and indented bus bay and access to the Sydney Olympic Park Aquatic Centre.

Along Figtree Drive, there is a footpath on both sides of the street. NSW institute of Sport is located east of the Sydney Olympic Park Station site, while a private company is located immediate opposite of the construction site.

Herb Elliott Avenue is within the original EIS route with footpath on both sides and with Ibis Hotel and the Abattoir Heritage Precinct located on the north side of Herb Elliott Avenue

There are no schools, aged care, or childcare facilities along the proposed heavy vehicle entry and exit route. The road safety audit have not identified any high risk items along the proposed route.



3 8 CONSTRUCTION TRAFFIC MANAGEMENT

Construction traffic volumes would be minimised during peak periods, and special events, where possible.

Table 3 1 shows the proposed construction traffic volumes involving light vehicles and heavy vehicles accessing the construction sites on a typical day. The construction traffic generation is no more than what has been allowed for in the EIS construction traffic volumes for each site.

TABLE 3.1: DAILY CONSTRUCTION TRAFFIC VOLUMES (TWO-WAY MOVEMENT) DURING PEAK ACTIVITY

Site	/	AM Peak Hour	•	1	PM Peak Hour	
	Heavy Vehicle	Light Vehicle	Total	Heavy Vehicle	Light Vehicle	Total
Sydney Olympic Park Station	8	40	48	8	46	54

4. CONSULTATION

4 1 CONSULTATION WITH SOPA

This document will be provided for consultation with SOPA. Evidence of this consultation and confirmation of the proposed routes will be provided in **Appendix C**.

4.2 TRAFFIC AND TRANSPORT LIAISON GROUP (TTLG)

AFJV has been undertaking consultation and communication with stakeholders in regard to traffic management A communication strategy is being developed with stakeholders and the site-specific CTMPs outline consultation activities during the works. The community will be notified of any current and upcoming construction works and traffic arrangement that have the potential to impact on stakeholders, community and businesses, prior to them occurring

A community communications strategy is being developed (in consultation with Sydney Metro) to notify stakeholders that may be affected by changes to transport, access and local traffic arrangements. The community communications and strategy are being prepared in accordance with the General Specification requirements (Section 5.1.10). Once prepared, the community communications strategy will be forwarded to TfNSW for approval.

A Traffic and Transport Liaison Group (TTLG) will be established to discuss with stakeholders in relation to the proposed construction activities, upcoming works and related traffic and transport implications.

AFJV Traffic Manager is to participate in monthly TTLG meetings throughout the project, or at an agreed frequency. The Traffic Manager is a member of the TTLG and acts as the authorised representative for the Project in matters related to traffic and transport. The Traffic Manager provides the relevant information relating to the Project to the group

AFJV consult with all relevant stakeholders prior to the commencement of any works. Potential stakeholders for this Project include:

- Sydney Metro
- Transport for NSW including:



- Centre for Road and Maritime Safety
- Metro Bus and Ferry Planning and Development
- Greater Sydney Planning and Programs
- Freight Strategy and Planning
- Customer Journey Planning
- Sydney Trains
- Port Authority of NSW
- Infrastructure NSW
- Department of Planning, Industry and Environment
- NSW Police
- NSW Fire and Rescue
- NSW Ambulance Service
- Inner West Council
- City of Canada Bay Council
- Burwood Council
- Parramatta City Council
- Bus operators
- Sydney Olympic Park Authority
- Concord Oval Redevelopment

4.3 TRAFFIC CONTROL GROUP (TCG)

Sydney Metro to establish Metro West wide TCG and the Traffic Manager will attend on behalf of AFJV and meet weekly, fortnightly or as agreed. TCG members typically include the Project Traffic Manager and representatives from TfNSW, SM, and where required Councils and SOPA.

The TCG is to discuss and agree on any and traffic and transport related issues associated with the Project. It is the TCG where decisions and changes are made on CTMPs, traffic management issues as they relate to the project work.

5. PROFESSIONAL QUALIFICATION

6. APPROVAL

Following consultation with SOPA, this document will be finalised (where changes have been identified as being required) and provided to the Planning Secretary for approval in accordance with CoA D86



Approved local roads will be included in the Construction Traffic Management Plans (CTMPs) required under CoA D85, which will also be submitted to the Planning Secretary for information before the commencement of any construction in the area identified and managed under each CTMP.

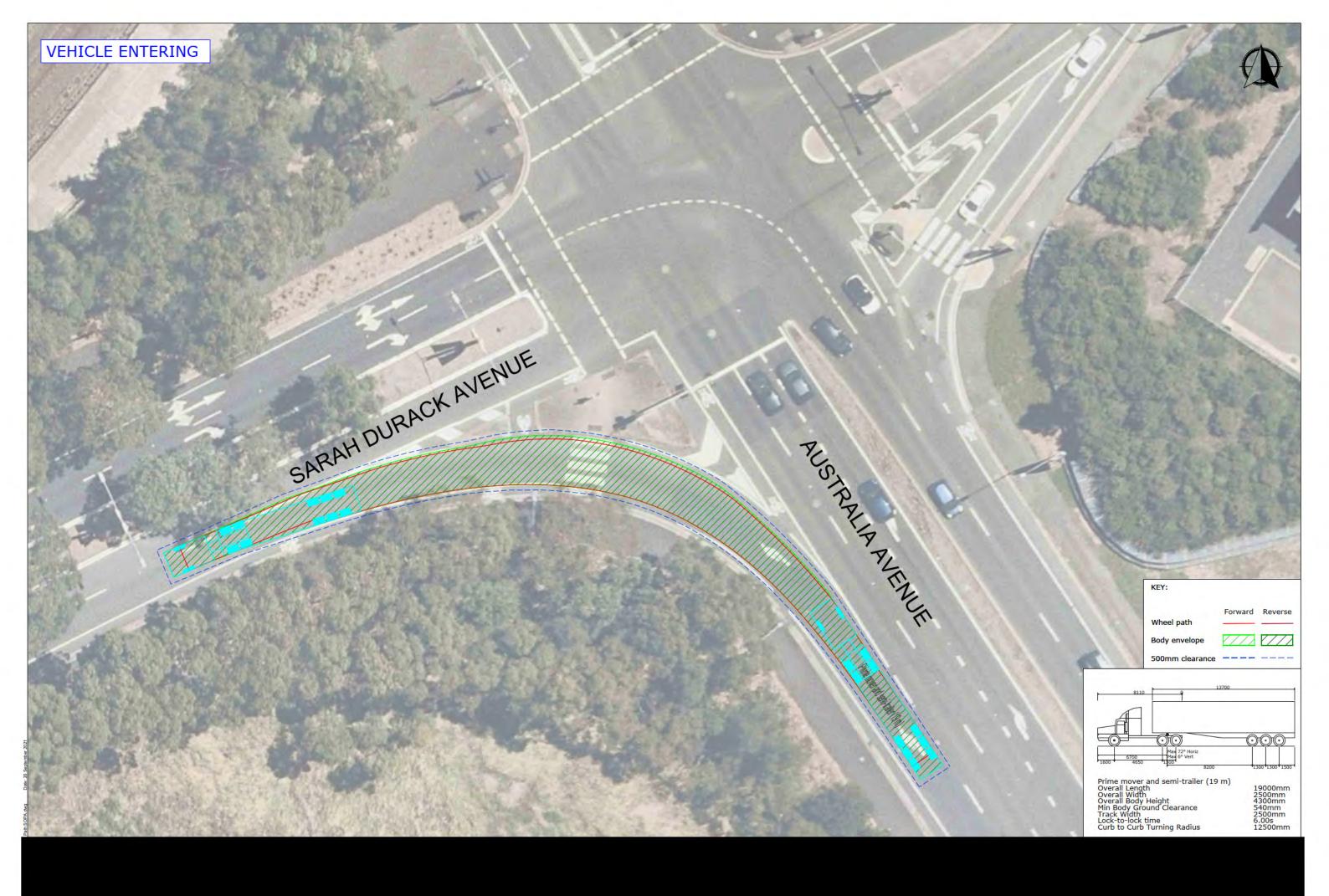
7. CONCLUSION

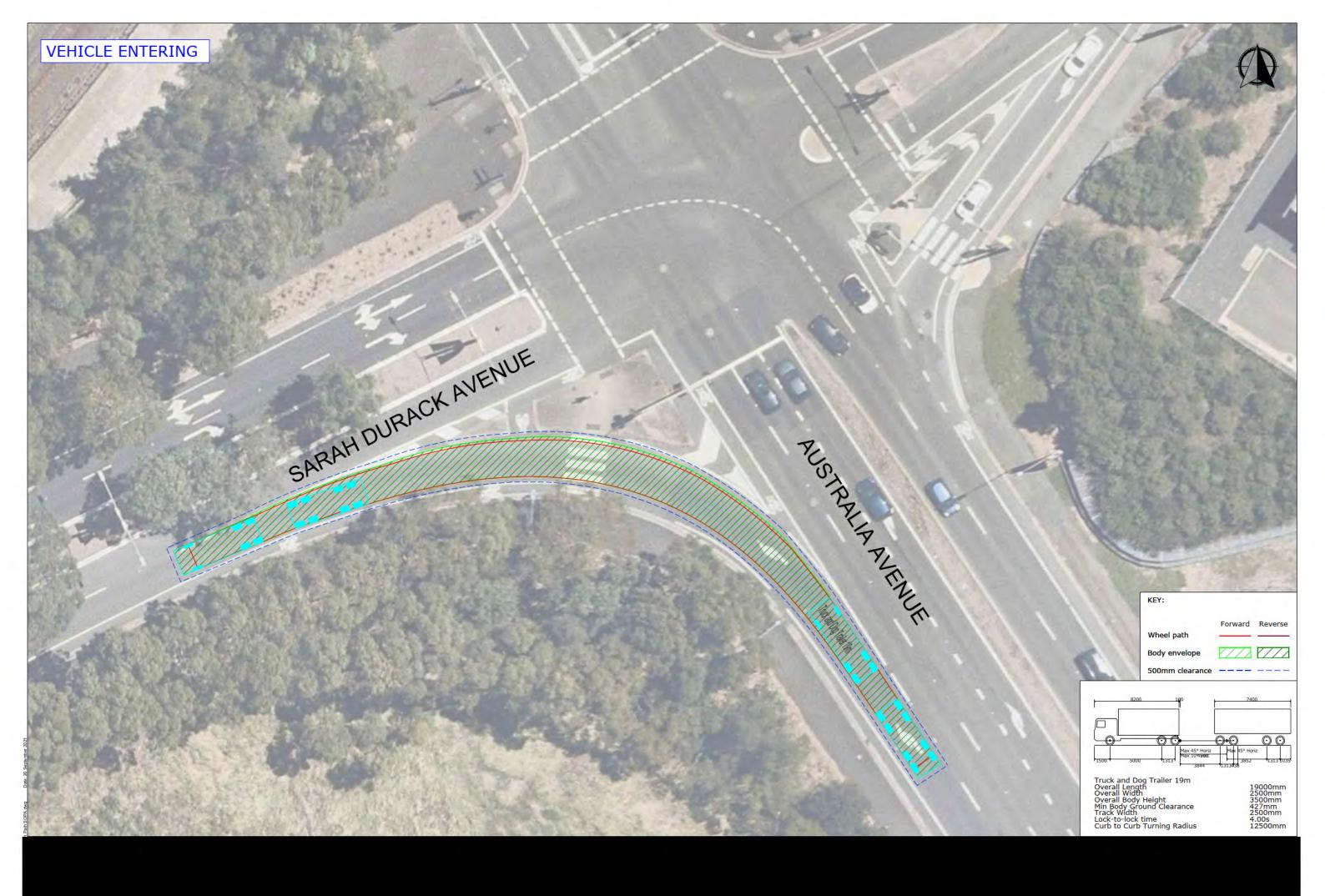
Swept path analysis have shown that there are no swept path clashes with the proposed heavy vehicle route Road safety audits had identified no high risk items and medium risk items have improbable likelihood. Road dilapidation surveys (required under CoA D87(c)) will be completed in November 2021 prior to any heavy vehicle usage on the proposed local roads described in this document Finally, there are no schools, aged care facilities or childcare facilities along the proposed heavy vehicle route.

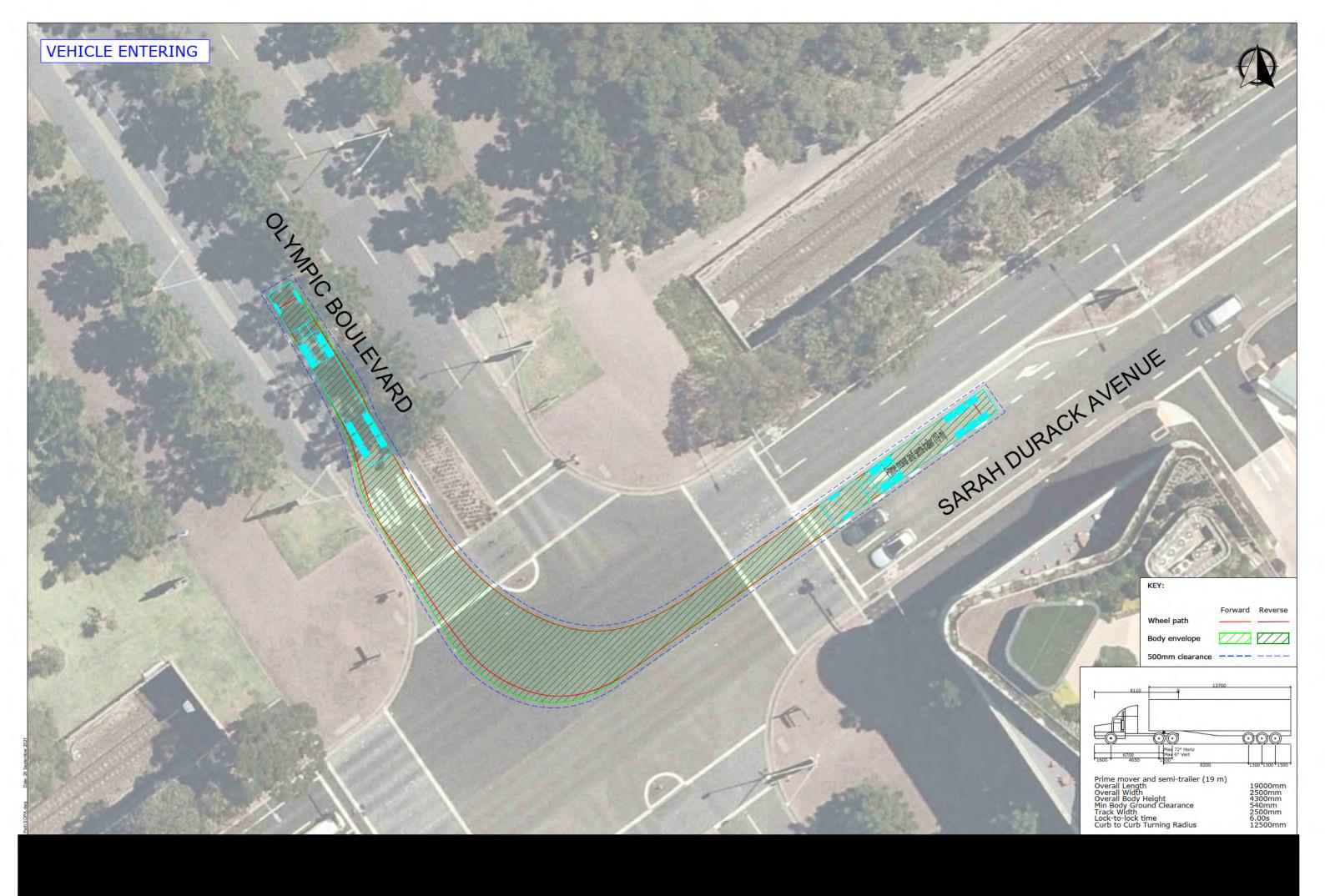
Therefore, the proposed heavy vehicle entry and exit route is considered suitable for use and is recommended for approval

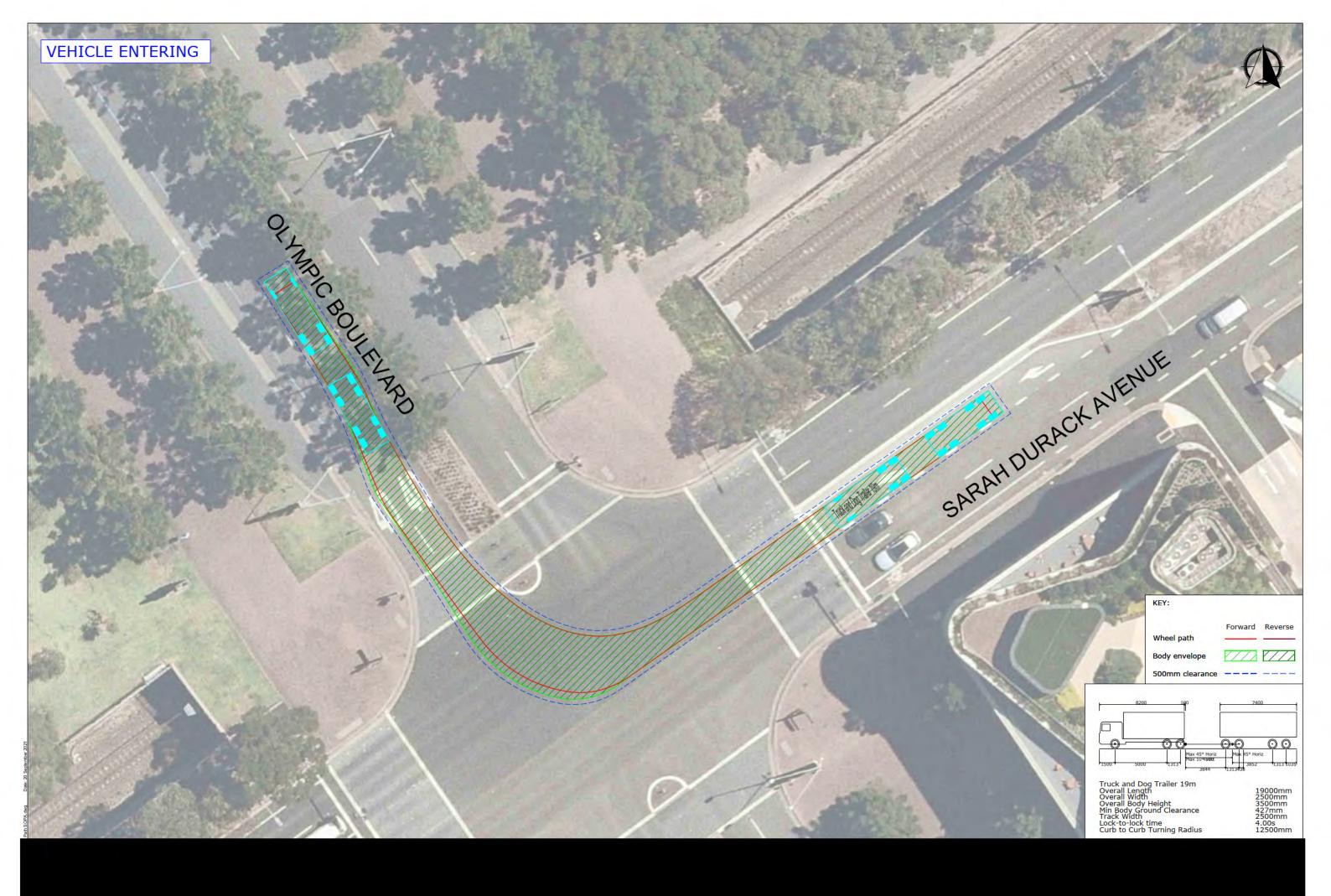


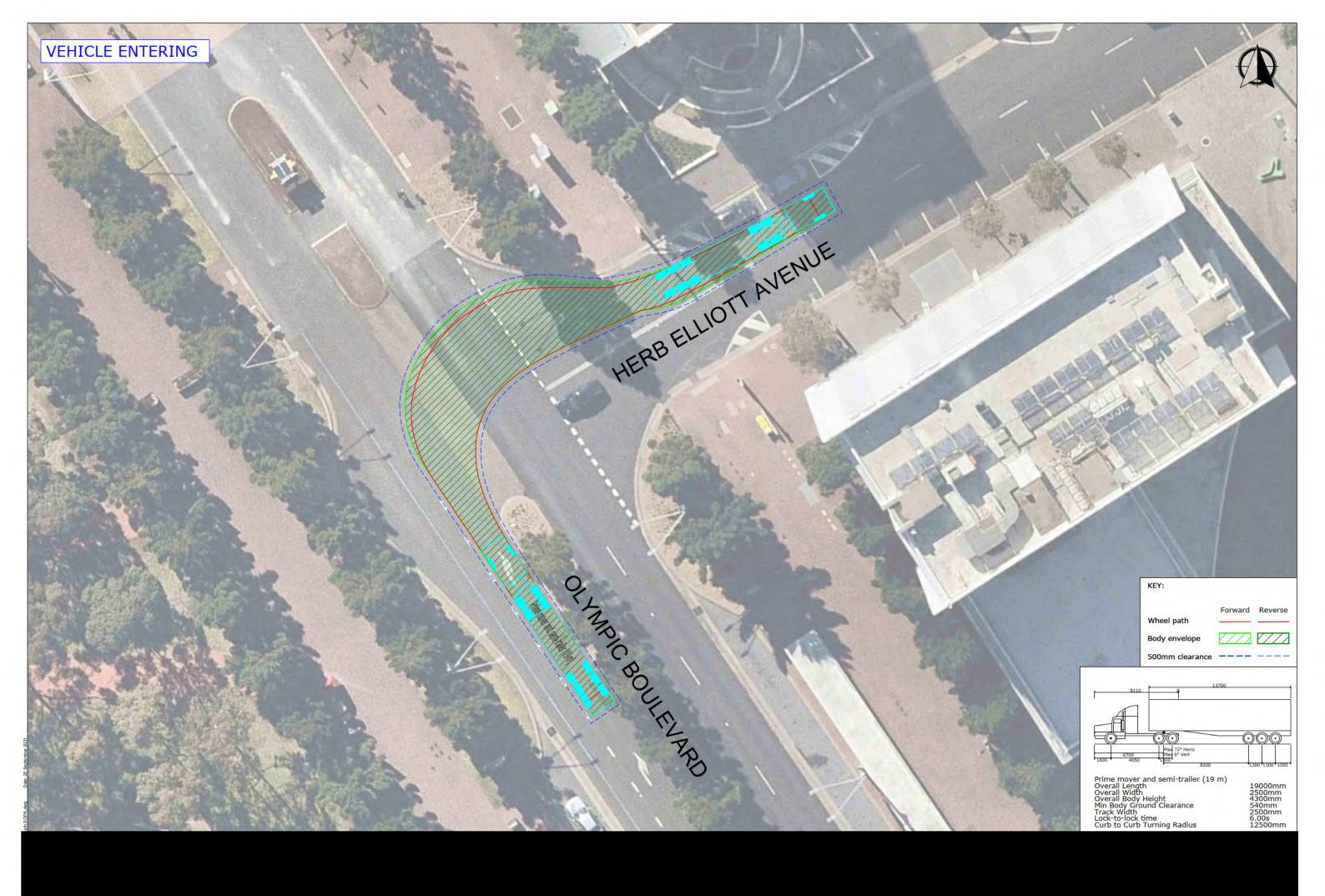
APPENDIX A SWEPT PATH ANALYSIS

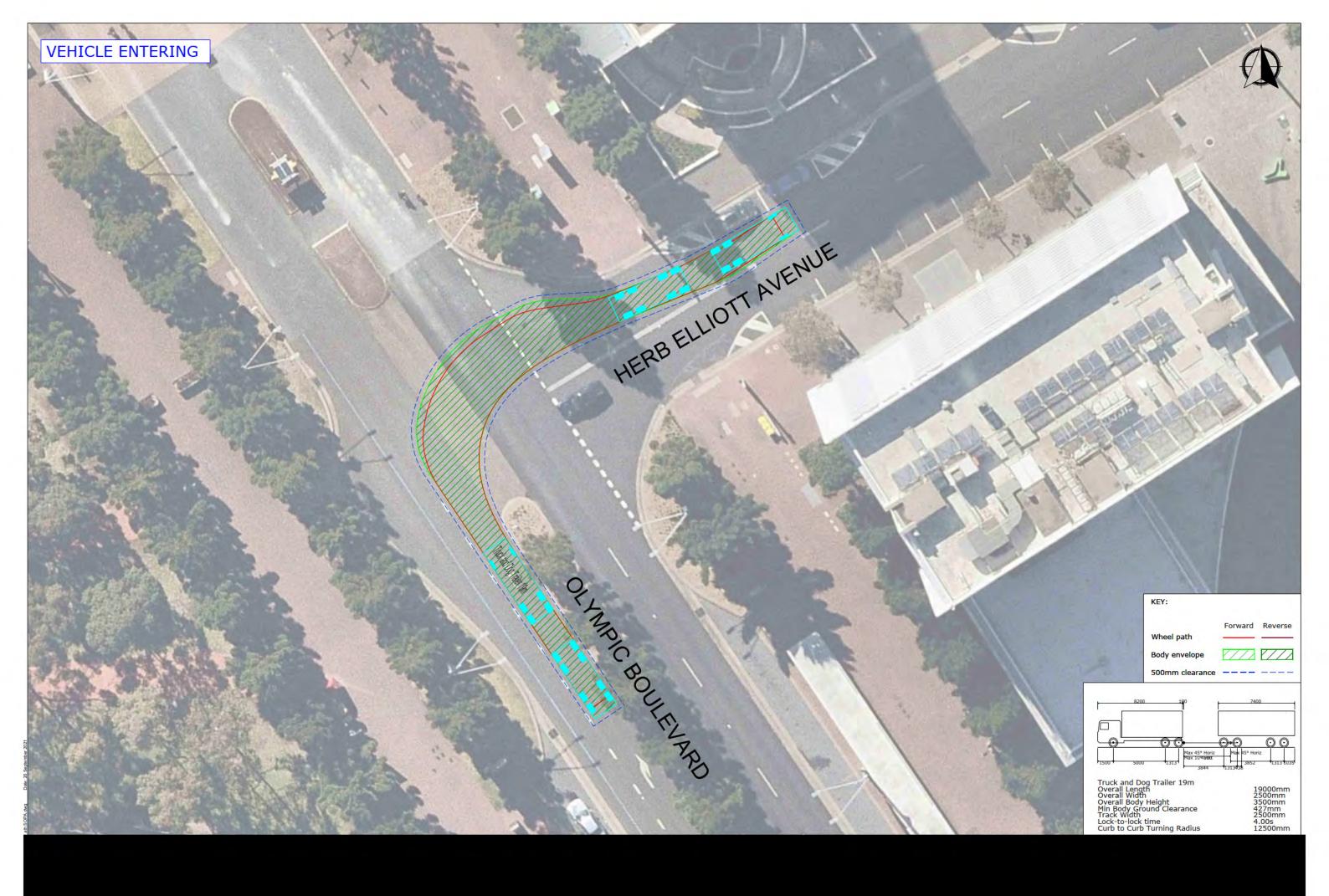






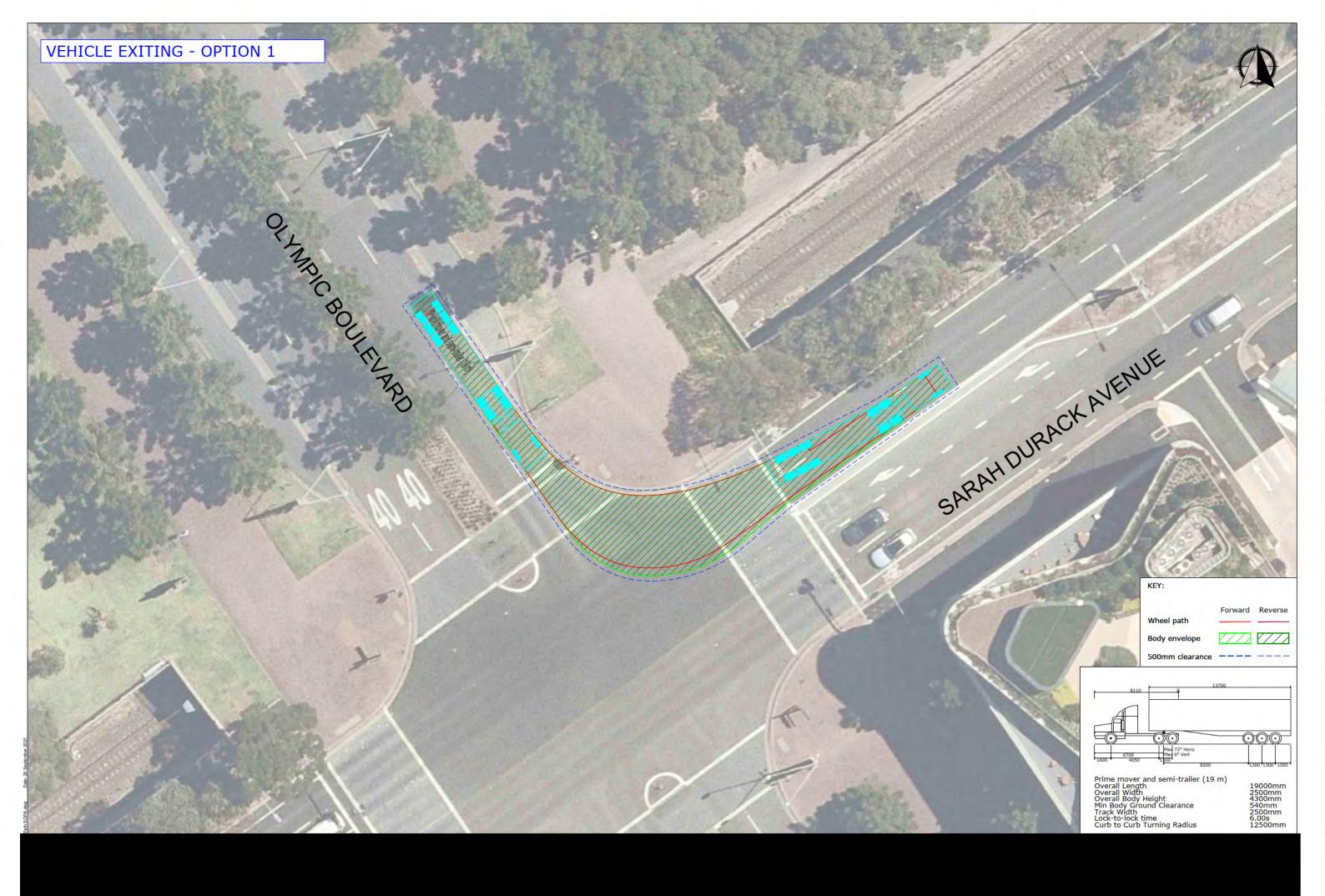


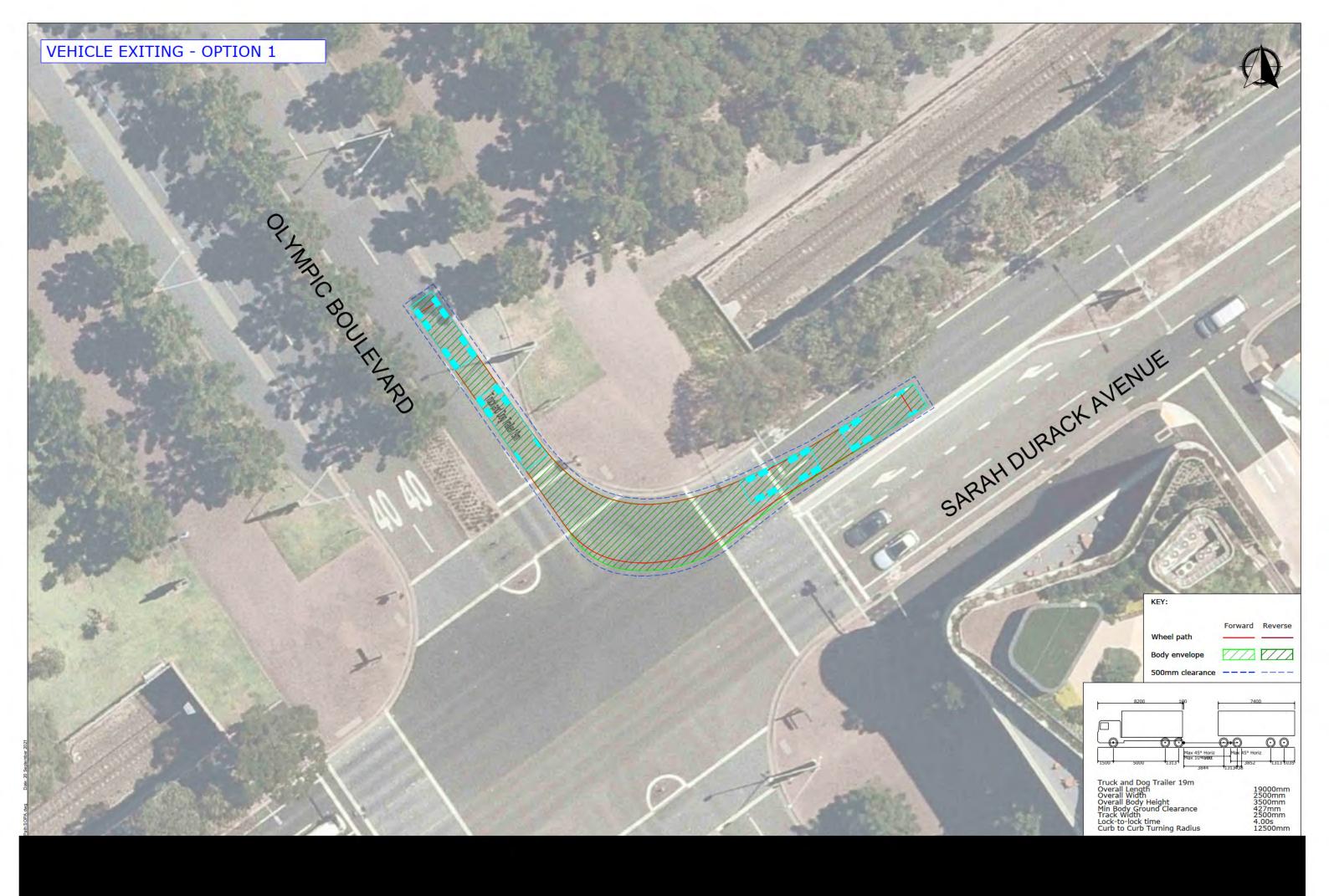


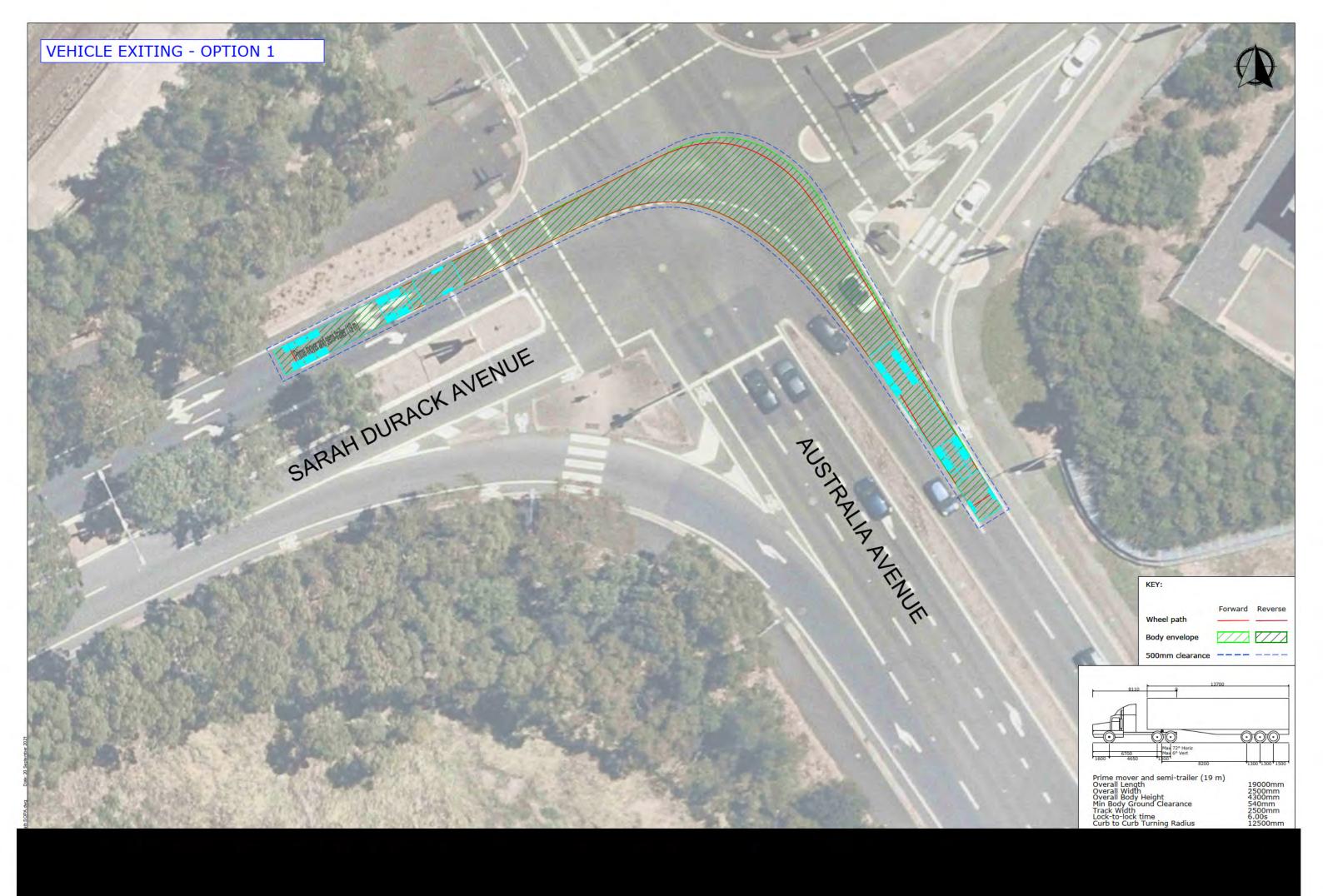




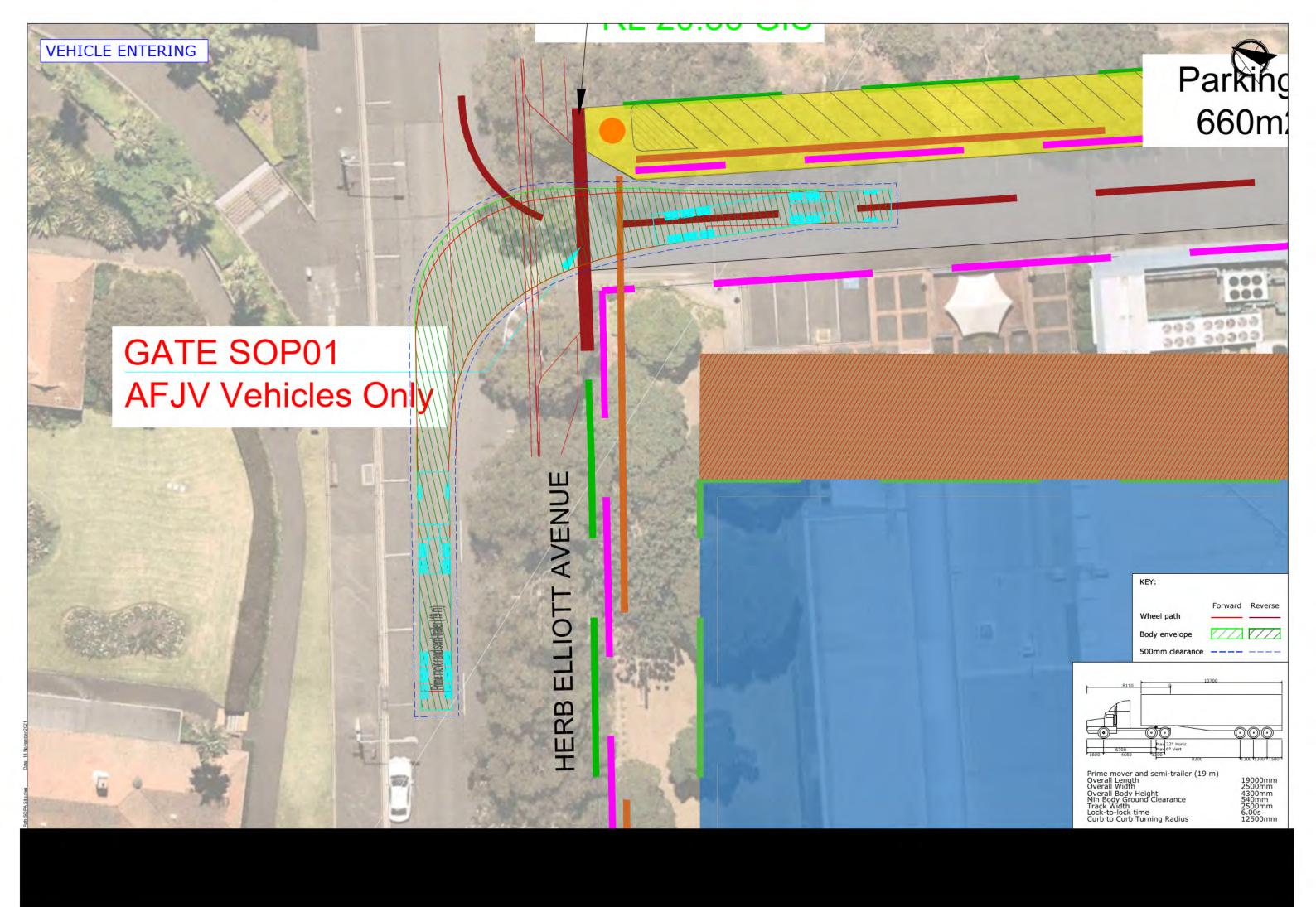


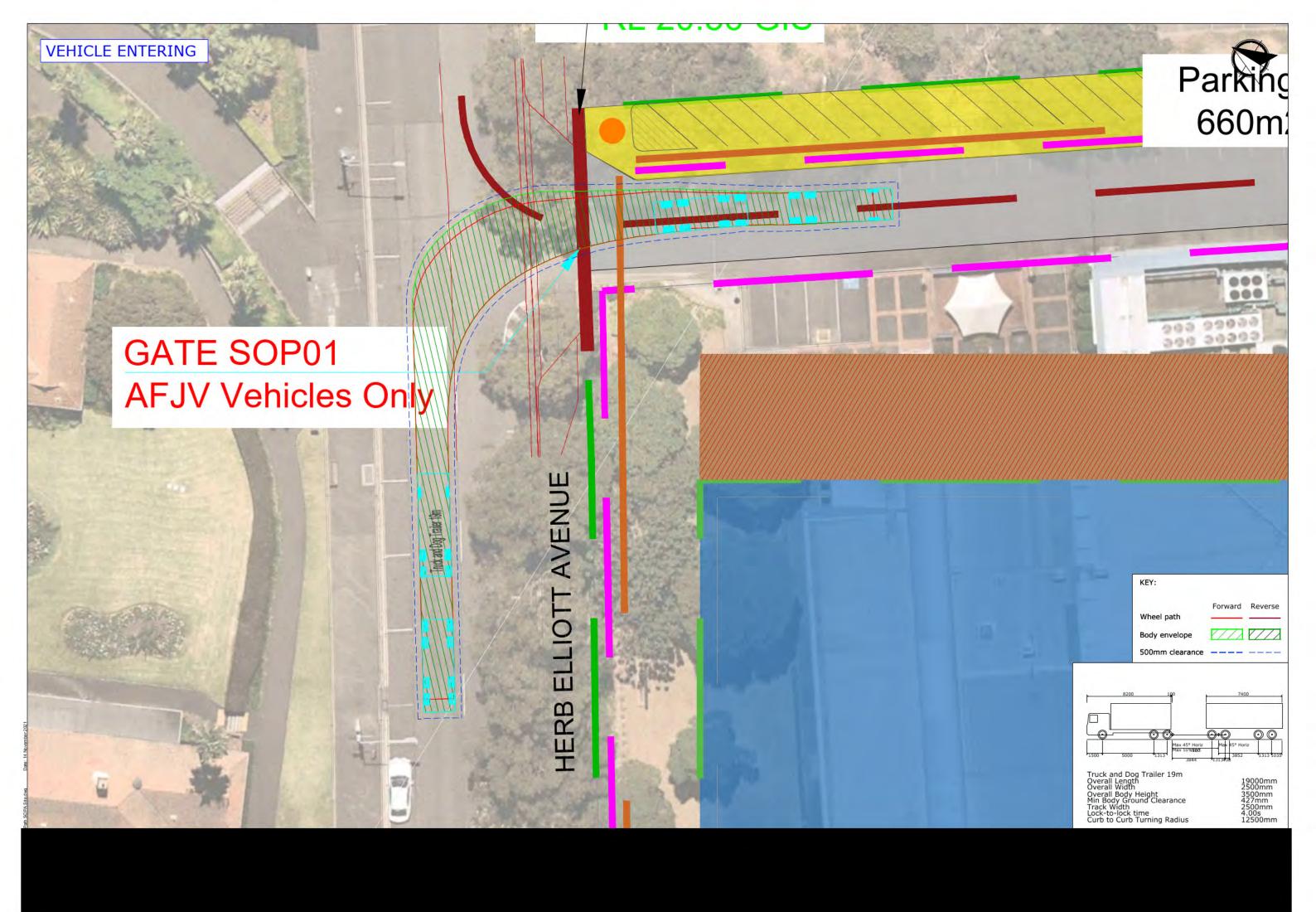


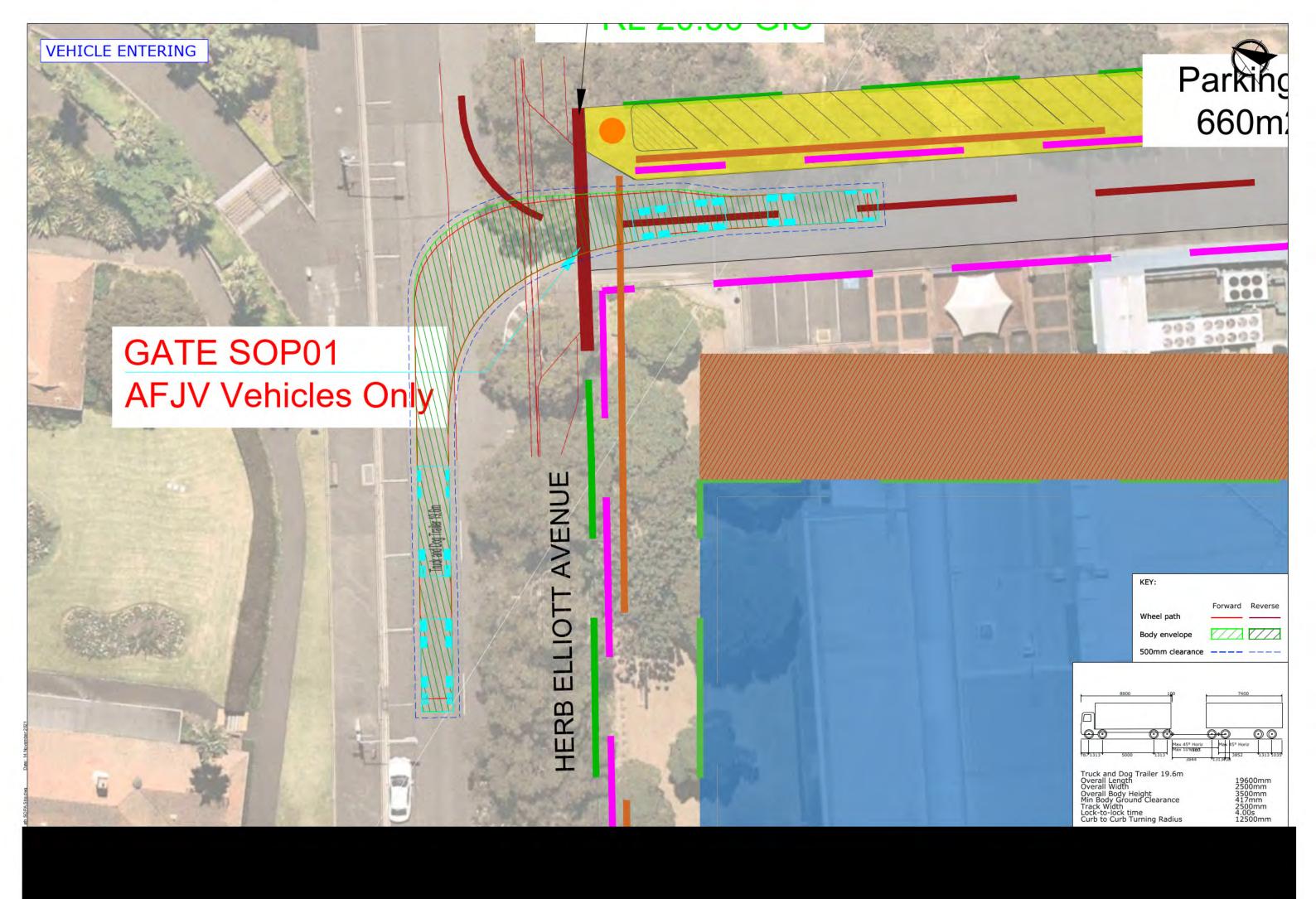


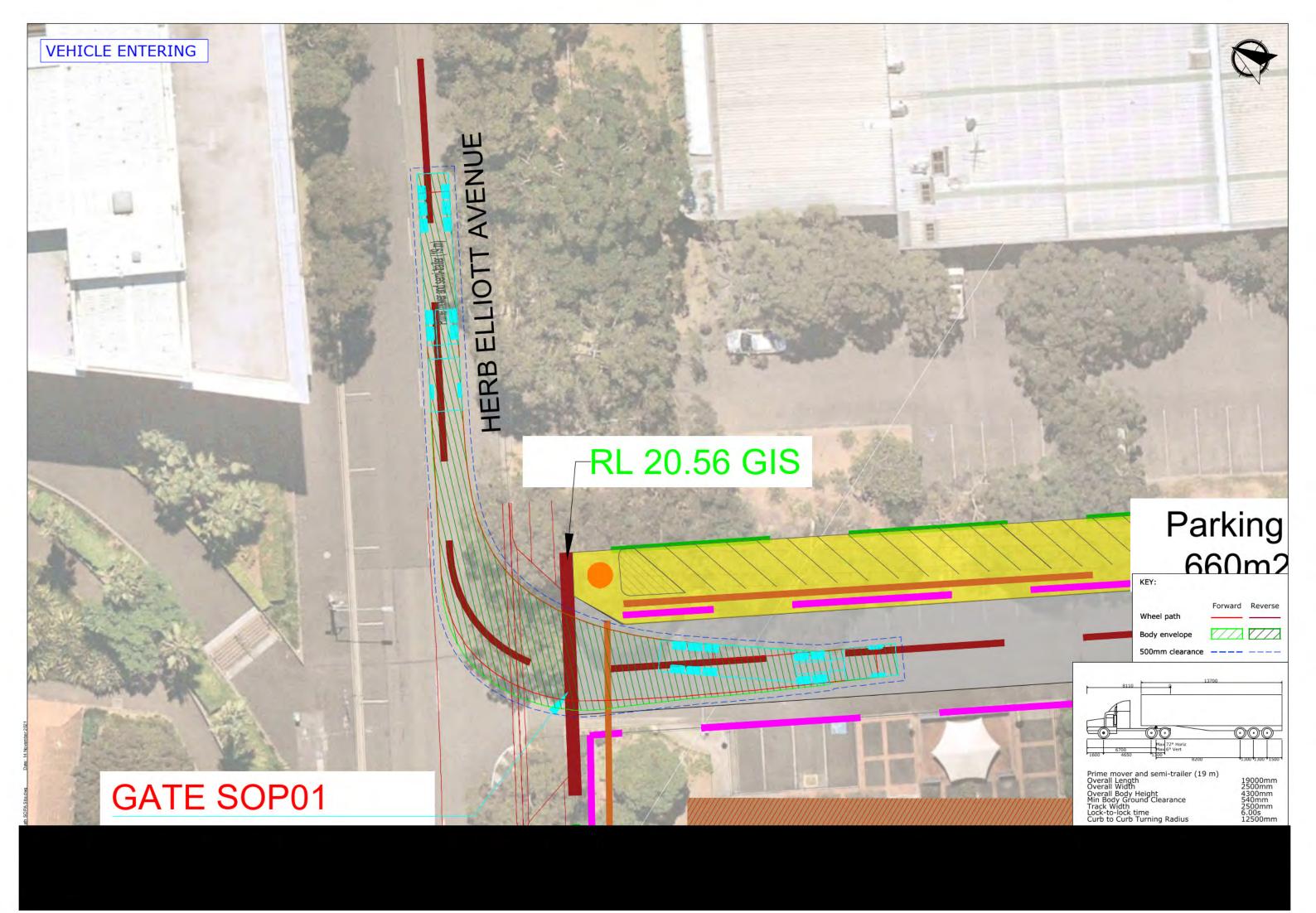


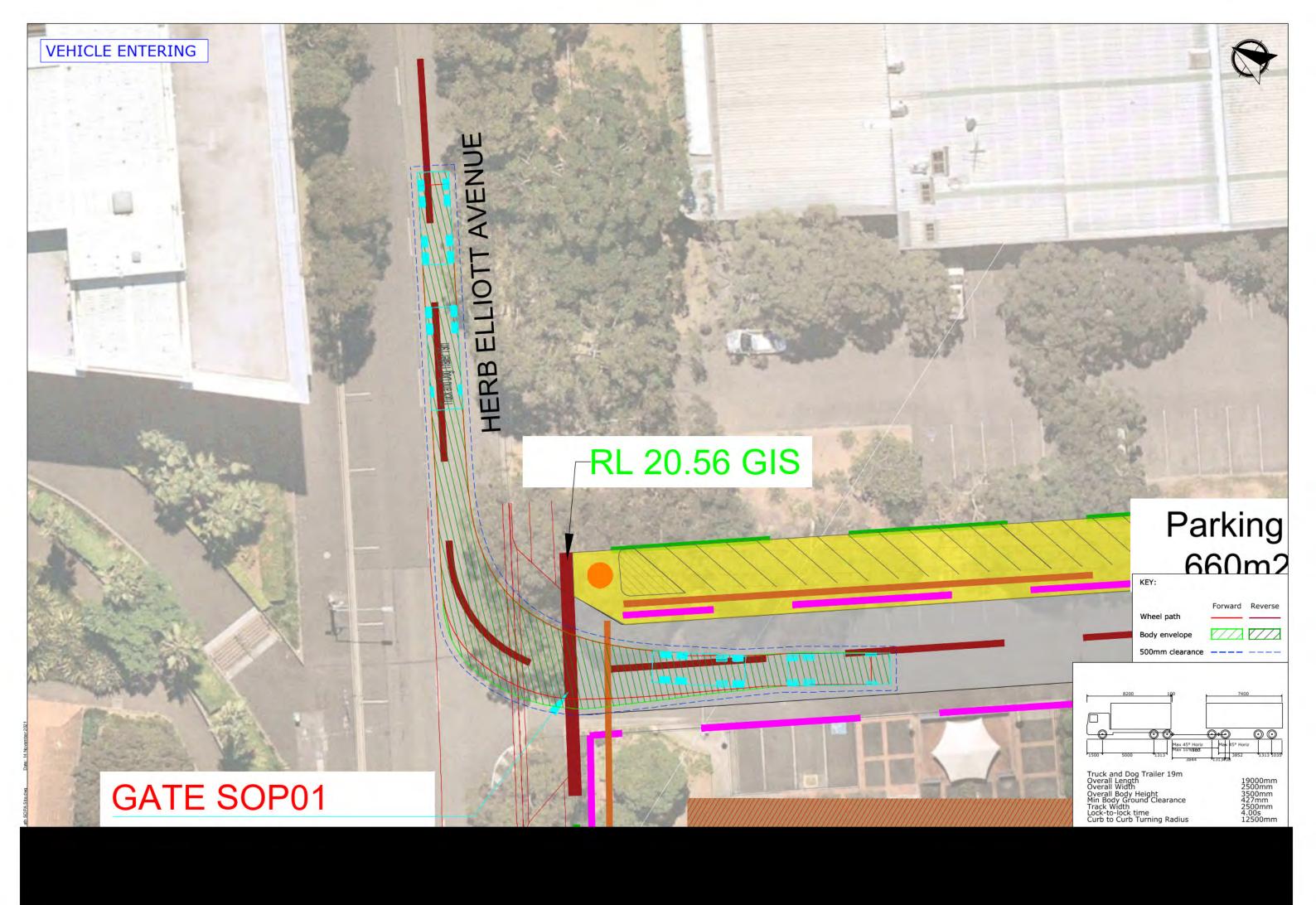


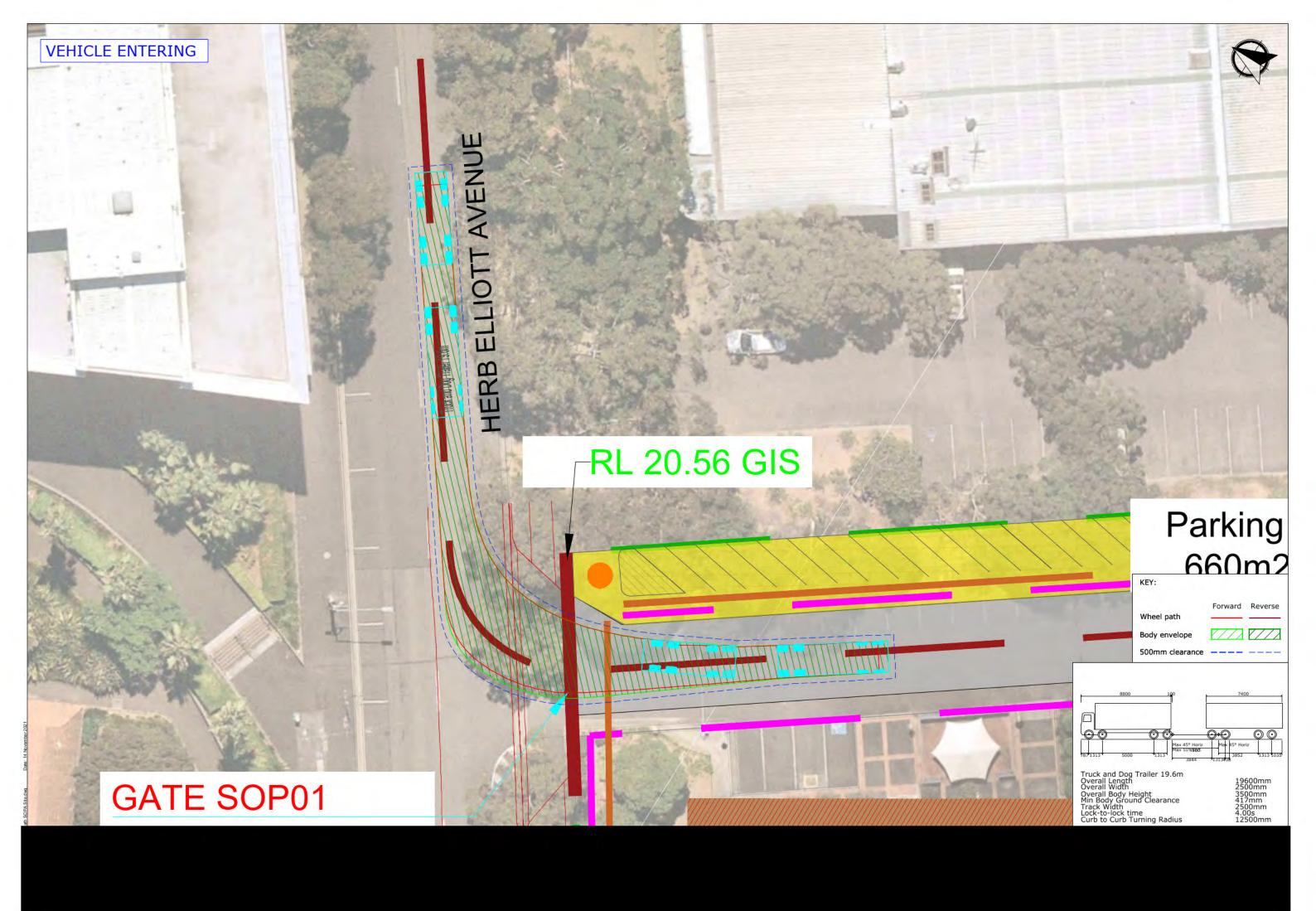


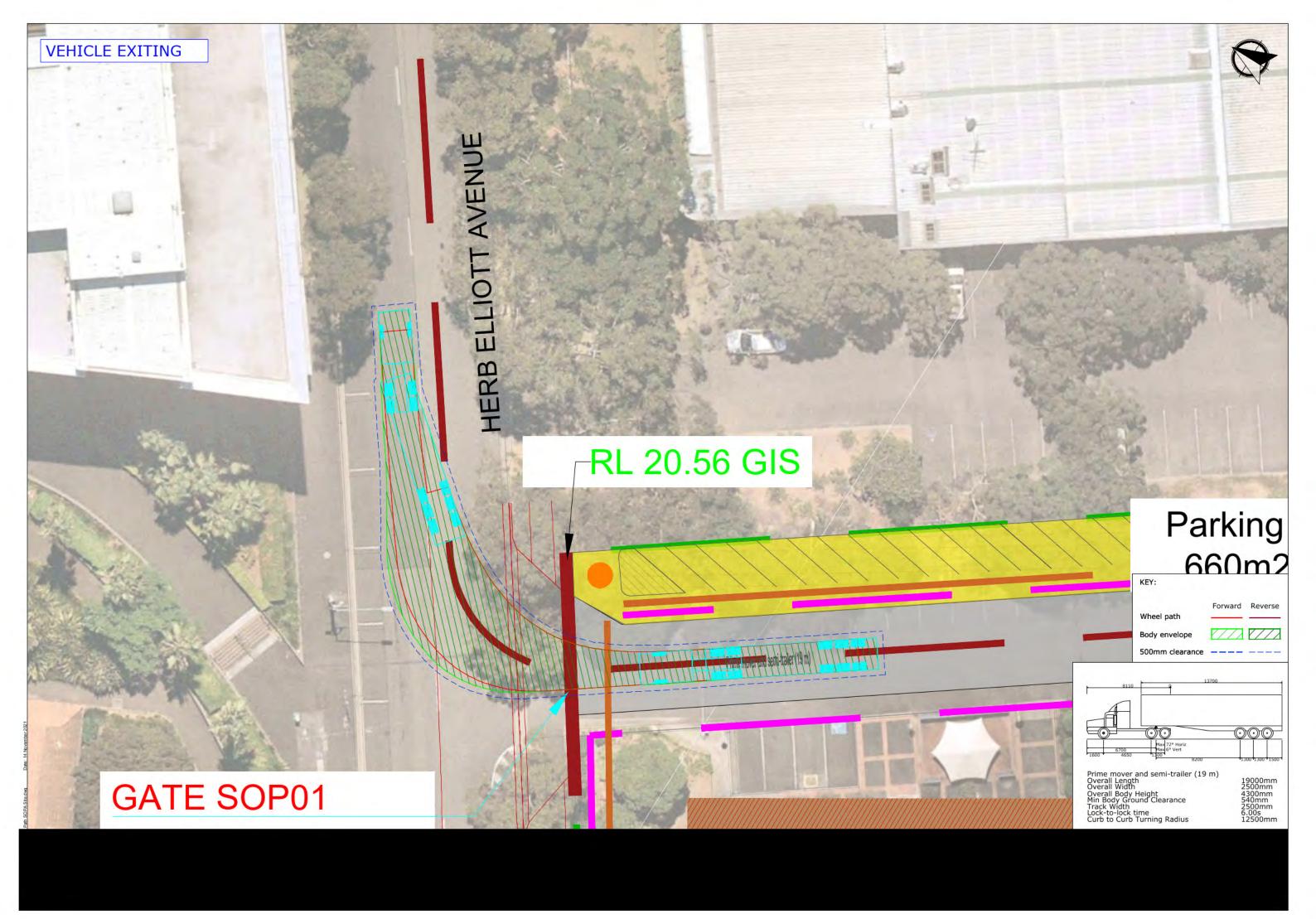


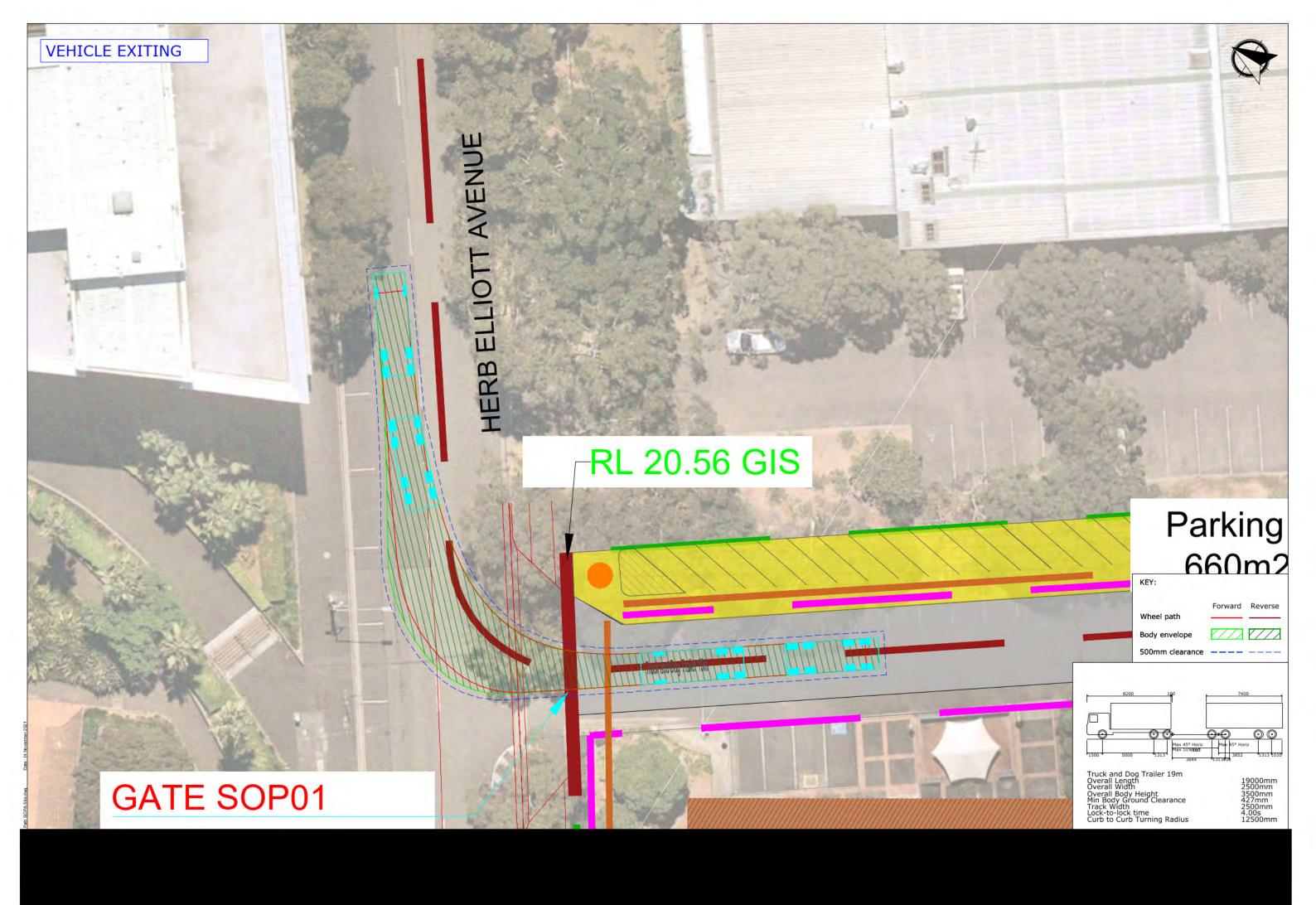


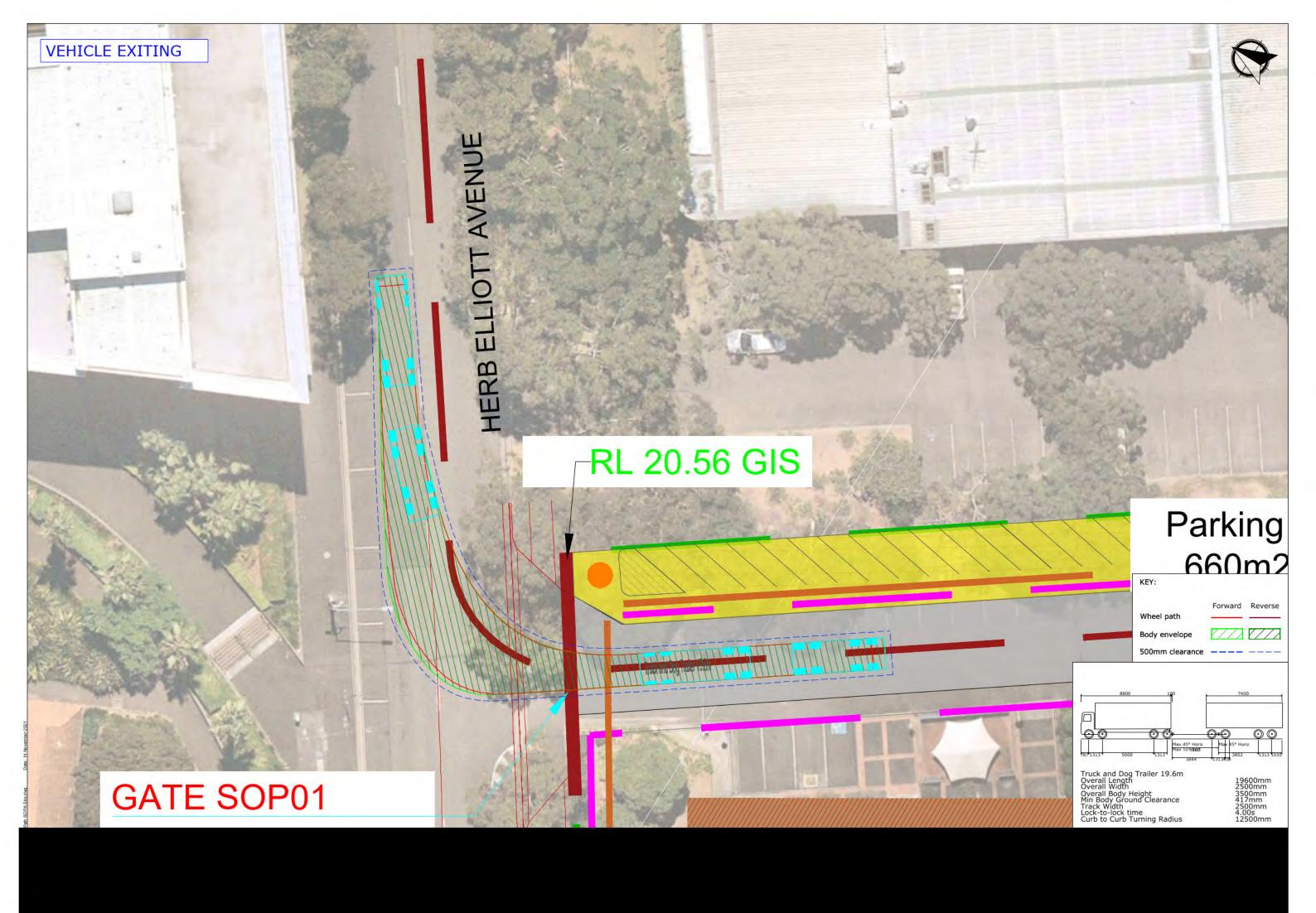


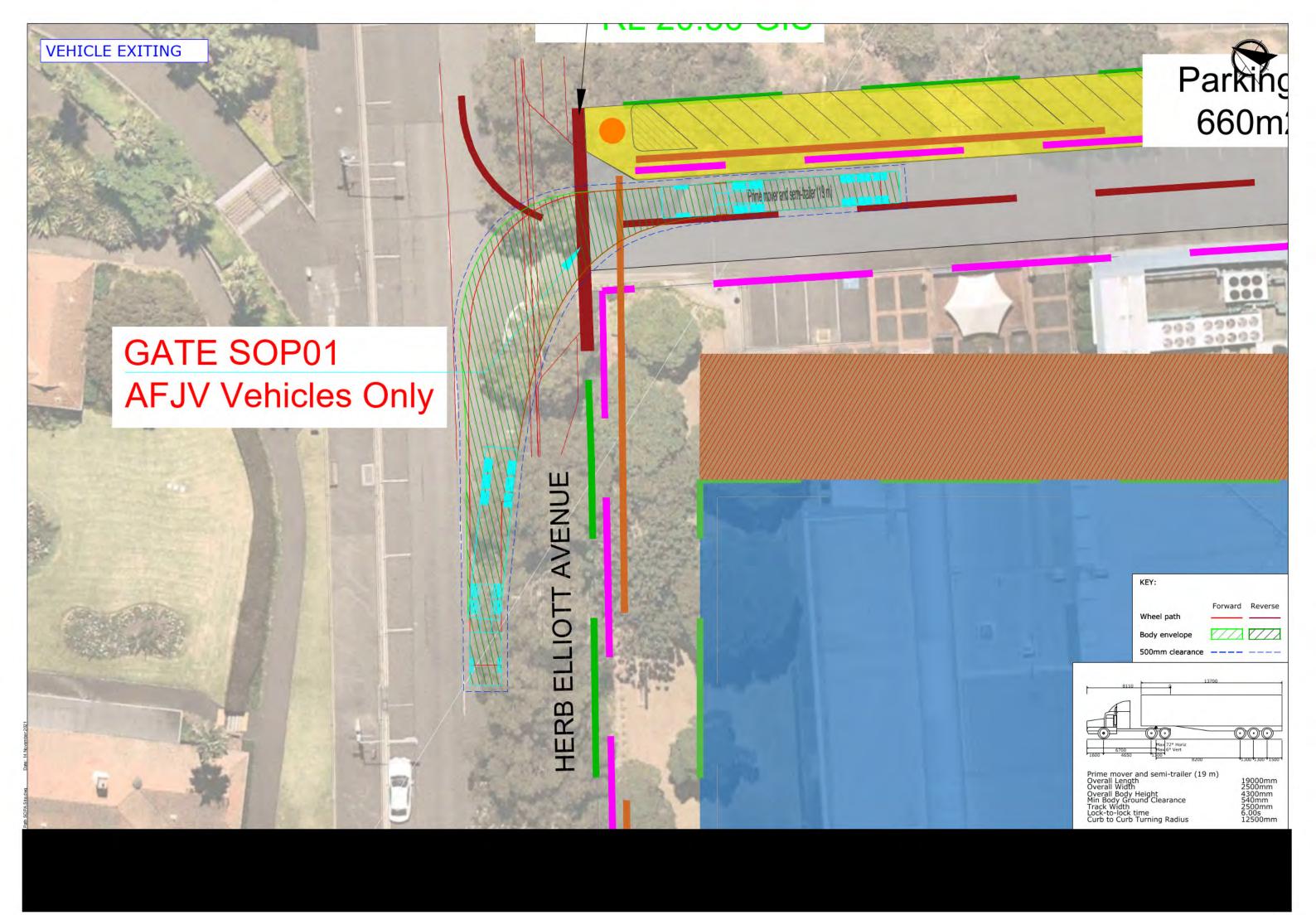


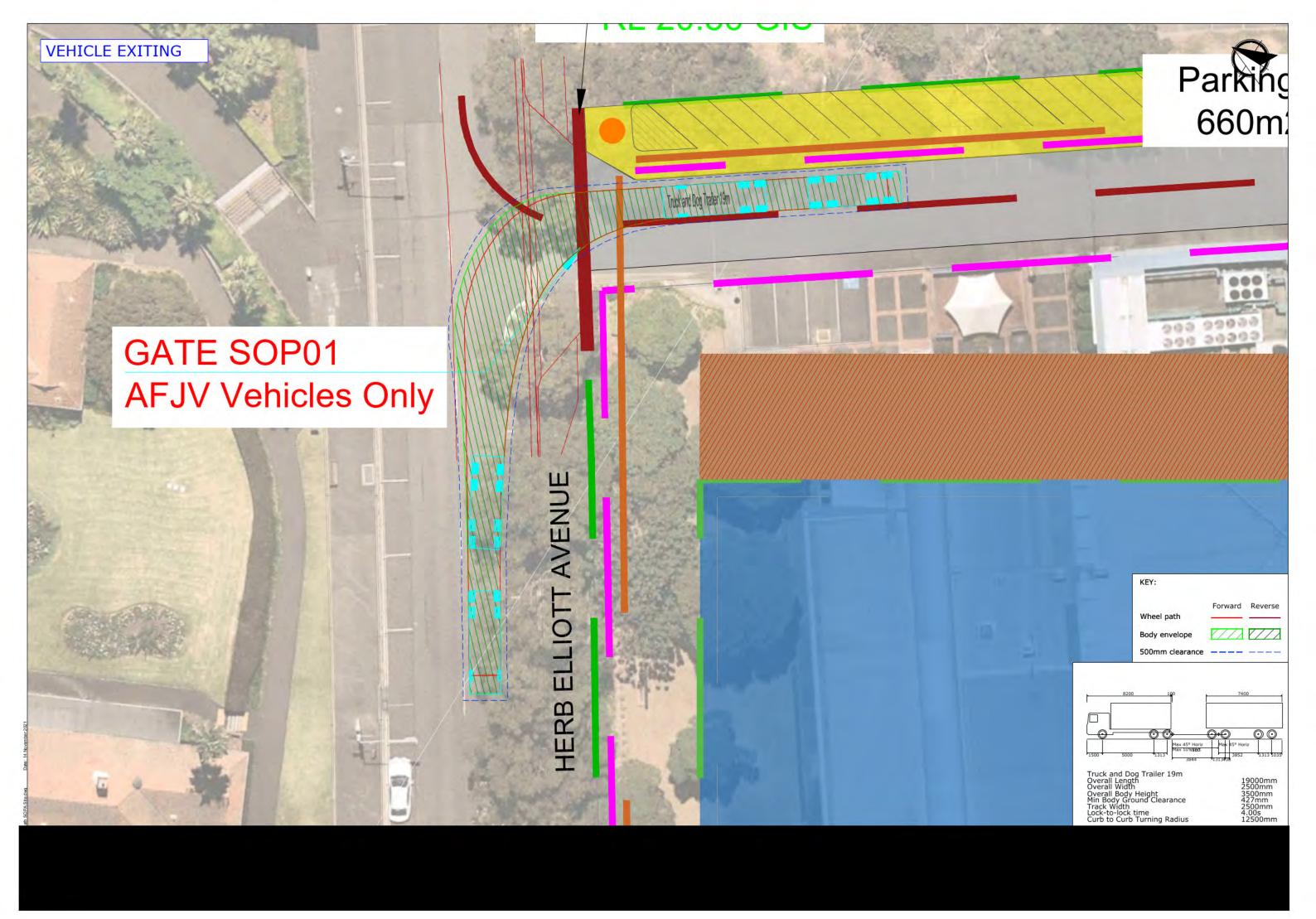


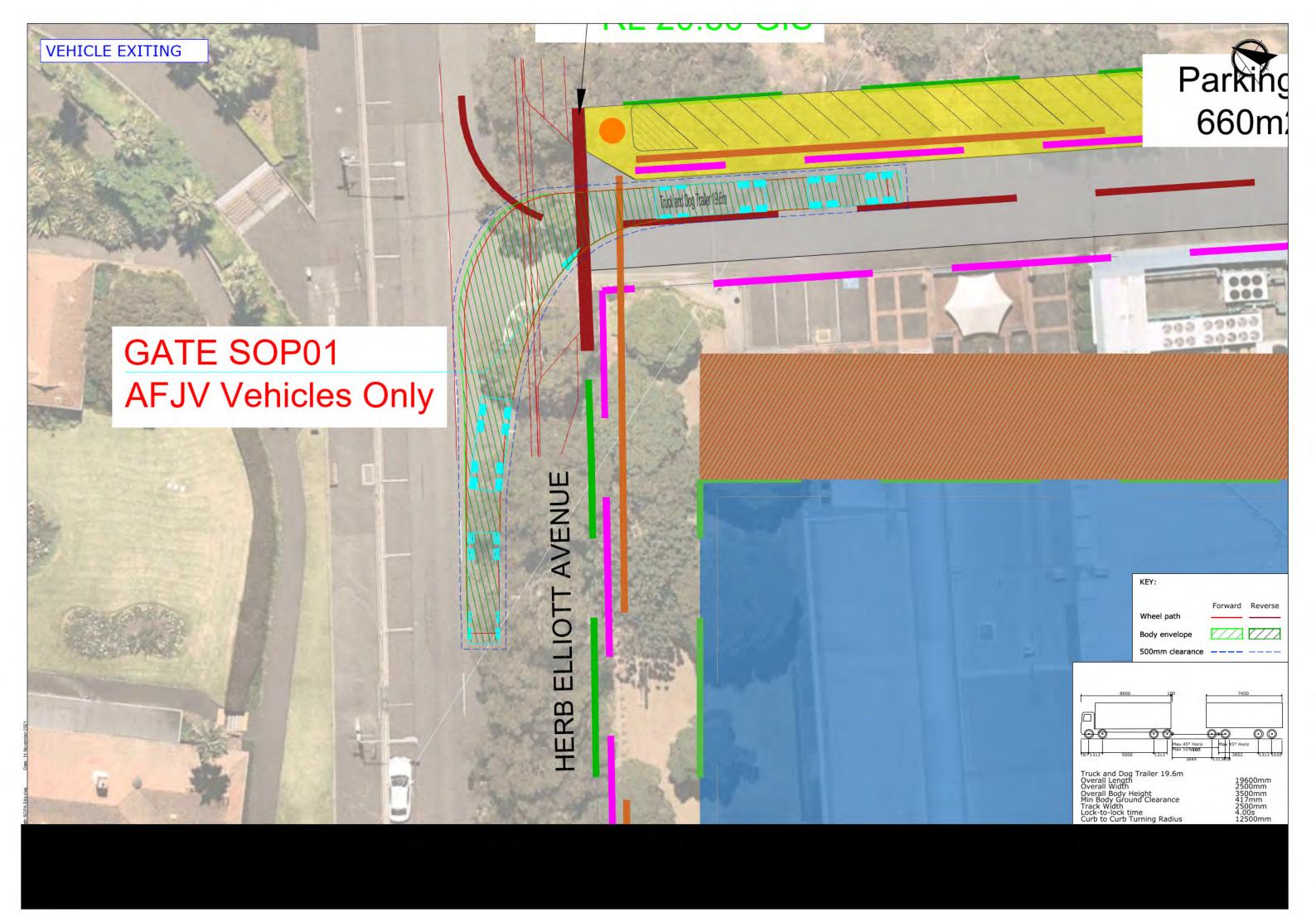


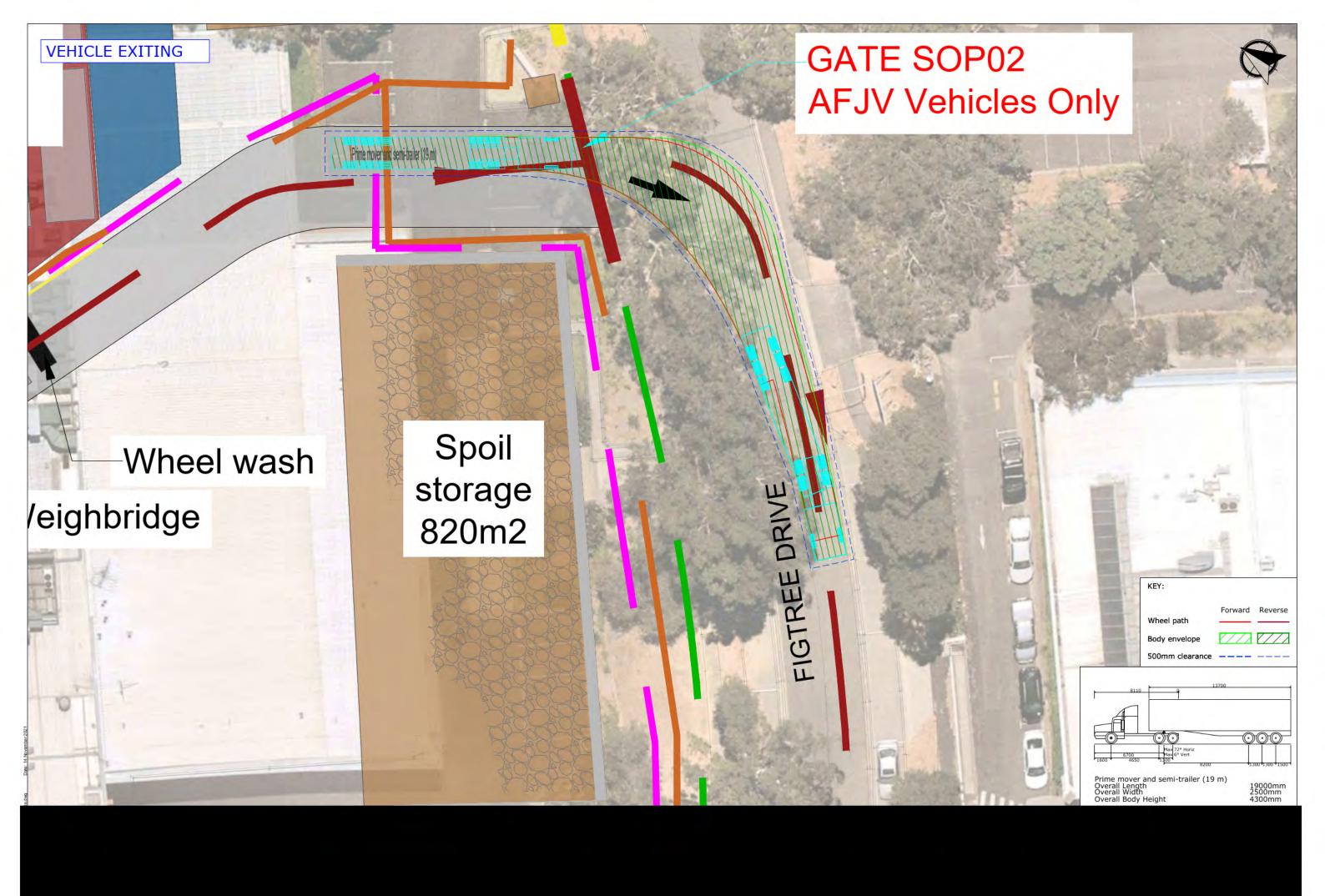


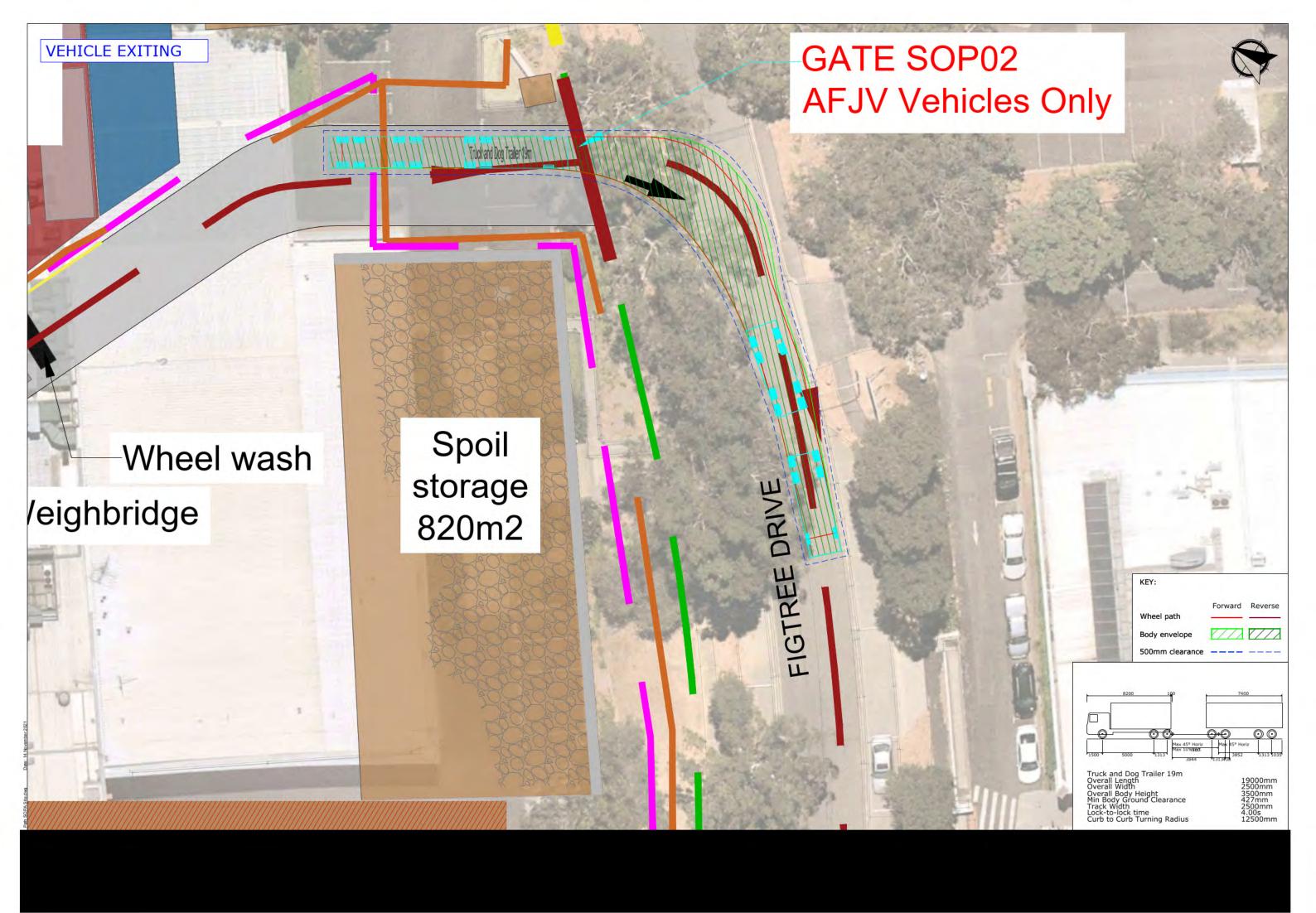


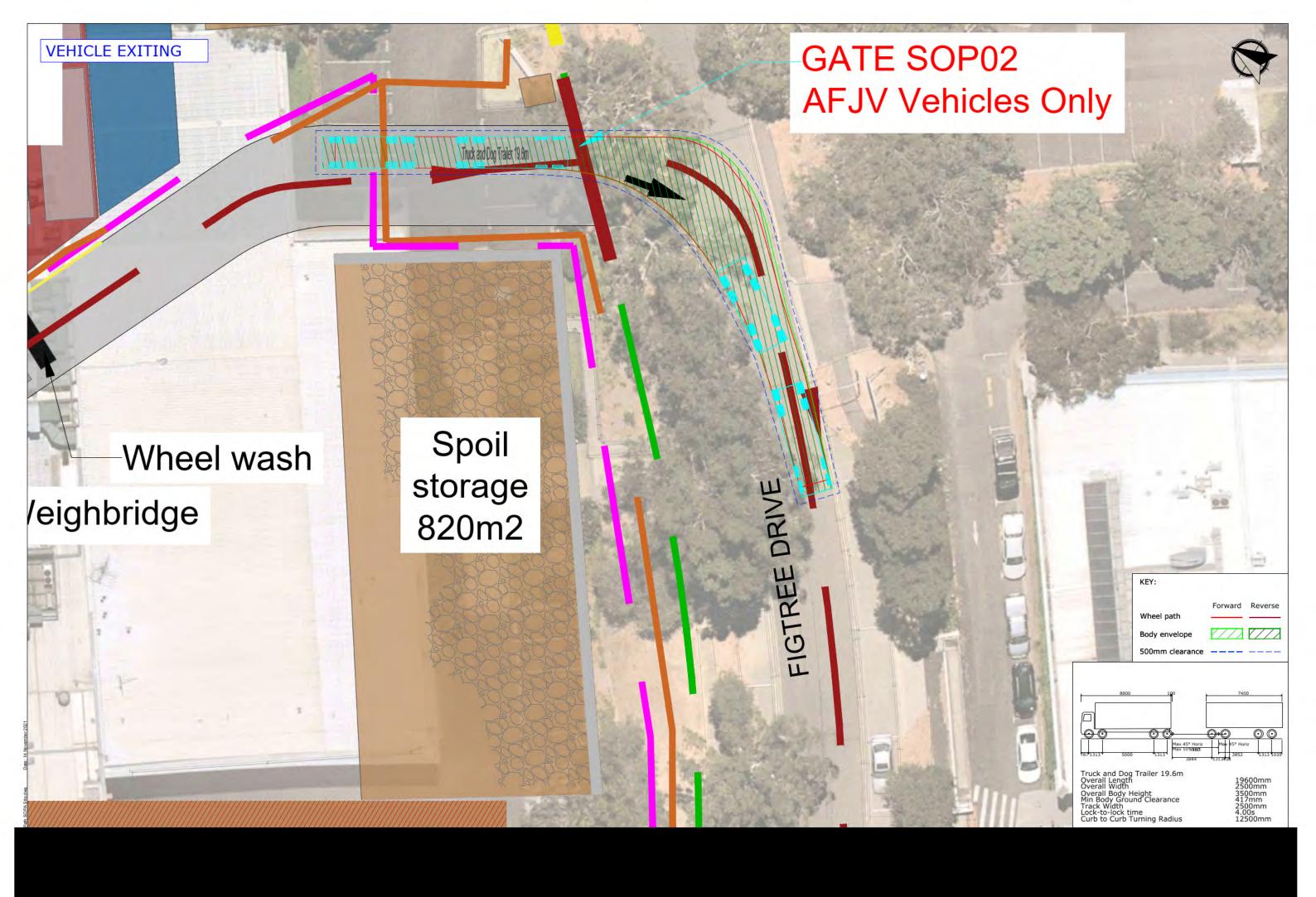














APPENDIX B ROAD SAFETY AUDIT



Sydney Metro West Existing Conditions Road Safety Audit

Prepared for:

Acciona Ferrovial Joint Venture

5 October 2021

The Transport Planning Partnership



Sydney Metro West Existing Conditions Road Safety Audit

Client: Acciona Ferrovial Joint Venture

Version: V01

Date: 5 October 2021

TTPP Reference: 21319

Quality Record





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Figure 2 1: Audit Scope

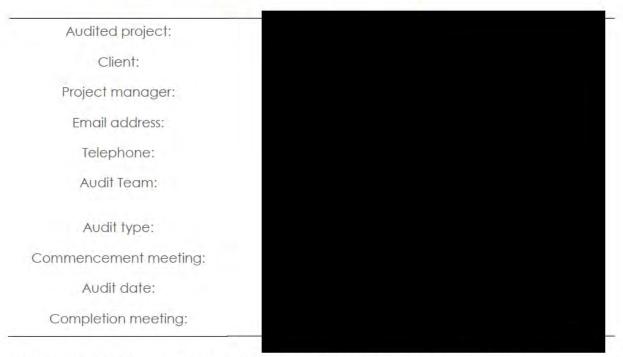
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APPENDICES

A. DESIGN DRAWINGS



1 Road Safety Audit Summary



The objective of this road safety audit is to examine and identify road safety concerns regarding the amended construction vehicle haul route associated with the construction of the Sydney Olympic Park metro station as part of the Sydney Metro West project. The amended route differs to the construction vehicle haul route proposed by the Environmental Impact Statement (EIS) for the Sydney Metro West project.

The findings of the road safety audit have been detailed in Section 4.3 of this report.



2 Introduction

2.1 Background

This report has been prepared on behalf of Acciona Ferrovial Joint Venture to present road safety audit findings that have been identified for the amended construction vehicle haul route associated with the construction of the Sydney Olympic Park metro station as part of the Sydney Metro West project. The amended route differs to the construction vehicle haul route proposed by the Environmental Impact Statement (EIS) for the Sydney Metro West project.

Specifically, the audit scope covered the following routes:

- **Inbound route**: from Australia Avenue, turn left onto Sarah Durack Avenue, turn right onto Olympic Boulevard, and then turn right onto Herb Elliott Avenue.
- Outbound route: from Figtree Drive, turn left onto Olympic Boulevard, turn left onto Sarah Durack Avenue, and then turn right onto Australia Avenue.

The scope of the road safety audit is shown in Figure 2.1.

Domino s Pizza Sydney Olympic Park Olympic Park 🕡 Ribs and Ru Olympic Park The Property Investors Alliance Treillage Tower 😱 Park Bikes 😉 LIV Indigo Village Gree Playgrour ar Park P Arc Of Pines Quaycentre Netball Central Ken Rosewall Arena **Inbound Route** Sydney Olympic Park Tennis World **Outbound Route** DFO Homebush

Figure 2 1: Audit Scope



2.2 Audit Objective

The objective of this road safety audit is to examine and identify road safety concerns regarding the amended construction vehicle haul route associated with the construction of the Sydney Olympic Park metro station as part of the Sydney Metro West project.

2.3 Procedures and Reference Material

The procedures used are described in the following guidelines:

- Roads and Maritime Services' 2011 Guidelines for Road Safety Audit Practices
- Austroads Guide to Road Safety 2019: Part 6 Managing Road Safety Audits
- Austroads Guide to Road Safety 2019: Part 6A Implementing Road Safety Audits.

Austroads checklist was used by the audit team as a reference in this road safety audit. Key elements examined included:

- general topics drainage, type and degree of access to development
- design issues
- intersections
- lighting, signs and delineation
- physical objects
- environmental constraints
- other matters including over size vehicles.

2.4 Audit Team





3 Road Safety Audit Program

3.1 Commencement Meeting

A formal meeting was not held.

3.2 Site and Field Audit

A site inspection was carried out on Tuesday 28 September 2021 in fine weather conditions during the daytime. This is in-line with the hours of construction which are proposed to be during the daytime period.

The vehicle route was driven, and adjacent pedestrian pathways were walked over in each direction to identify possible road safety concerns. Several photographs and video footage were taken

3.3 Completion Meeting

Not required.



4 Road Safety Audit Findings

4.1 Introduction

Table 4.1 provides specific details of the audit findings and a risk rating as high, medium or low. The risk ratings have been based on the risk matrix presented in Table 4.1, which has been adopted from the standard Austroads Risk Matrix.

Table 4 1: Risk Matrix

Likelihood	Highly probable	Occasional	Improbable
Severity			
Major			Medium
Moderate	High	Medium	Low
Minor	Medium	Low	Low

The terms in Table 4.1 are described below.

Likelihood:

- Highly probable: It is likely that more than one crash of this type could occur within a fiveyear period.
- Occasional: It is likely that less than one crash of this type could occur within a five-year period.
- Improbable: Less than one crash of this type could occur within a 10-year period.

Severity:

- Major: The crash is likely to result in a fatality or serious injuries
 For example, high/medium speed vehicle collision, high/medium speed collision with a fixed object, pedestrian struck at high speed, and cyclist hit by car.
- Moderate: The crash is likely to result in minor injuries or large scale of property damage
 For example, some slow speed vehicle collisions, cyclist falls, and rear end crashes.
- Minor: The crash is likely to result in minor property damage or many near miss crash events

For example, some slow speed collisions, pedestrian walks into object (no head injury), and car reverses into post.

Priority:

- High: Very important, and needs to be addressed urgently.
- Medium: Important, and needs to be addressed as soon as possible.
- Low: Needs to be considered as part of regular maintenance/planning program.



4.2 Responding to the Audit Report

As set out in the road safety audit guidelines, the responsibility for the road rests with the project manager, not with the auditor. The project manager is under no obligation to accept the audit findings. Neither is it the role of the auditor to agree to, or approve the project manager's responses to the audit.

The audit provides the opportunity to highlight potential road safety problems and have them formally considered by the project manager in conjunction with all other project considerations.

4.3 Road Safety Audit Findings

The audit findings are documented in Table 4.2 which provides:

- specific details of the road safety issues identified during the audit
- a risk level rating for each of the road safety audit findings.

It should be acknowledged that positive attributes of the audited road section have not been discussed. Deficiencies that do not cause a safety problem are also not listed.

In-line with Roads and Maritime Services' best practice recommendations have not been included in the road safety audit findings.



Table 4.2: Road Safety Audit Findings

Item No.	Location	Descriptions of Findings	Design/ Photo	Likelihood	Severity	Risk Rating	Designer Response
1,	Australia Avenue – Sarah Durack Avenue	There is a cycle lane marked within the road shoulder which significantly narrows at the left-turn slip lane from Australia Avenue to Sarah Durack Avenue. This results in cyclists having to share the travel lane with traffic,		Improbable	Major	Medium	Entry route via Sarah Durack Ave will be used as an alternate route in addition to Australian Ave.
		and namely, construction vehicles which have limited visibility towards cyclists. As observed on-site, this route is commonly utilised by cyclists. There is a risk of cyclists	111				Low heavy vehicle traffic volume will further reduce the likelihood of incidents
		being struck by left turning trucks.					Briefing to driver to expect cyclists within the Sydney Olympic Park area.
							No road design changes proposed.
2.	Sarah Durack Avenue	As observed on-site, pedestrians cross the road along midblock to access the P3 car park. Evidently, this is an existing concern as seen by the signage on-site at the car park exit reminding pedestrians to cross at the signals. This could result in a person being struck by a vehicle, which would be more severe if it involved a heavy vehicle.		Improbable	Major	Medium	Pedestrian volume is due to COVID centre located in Sydney Olympic Park. SOPA has installed signage and place personnel to direct pedestrians to the signal crossing.
							During some special events (e.g. Easter Show) access to worksite will be via Australian Ave, thus avoiding this area.
							No road design changes proposed:



Item No.	Location	Descriptions of Findings	Design/ Photo	Likelihood	Severity	Risk Rating	Designer Response
			Play II sofa. Gross the road at the lights				
3.	Figtree Drive	Sight lines between westbound vehicles on Figtree Drive and pedestrians at the southern kerb ramp are restricted by the curve in the roadway and overgrown roadside vegetation. This could lead to a vehicle-pedestrian collision, which could be exacerbated by the downward grade in travel lane on approach to the intersection		Improbable	Major	Medium	Low risk as trucks needs to slow down prior to turning onto Olympic Boulevard. Briefing to driver to expect pedestrians along Olympic Boulevard.
		and more heavy vehicles on this route.					During some special events (e.g. Easter Show) exit from worksite will be via Herb Elliott Ave and Australian Ave, thu avoiding this area
							No road design changes proposed



Item No.	Location	Descriptions of Findings	Design/ Photo	Likelihood	Severity	Risk Rating	Designer Response
			Figtree Drive Olympic Boulevard				
4.	Figtree Drive	Truck and dog vehicles are avoided in some high pedestrian areas as the gap for the draw bar between the truck and trailer can sometimes be mistaken to be two separate vehicles. A pedestrian could try to cross over the draw bar and get hit by the trailer as it accelerates.	THE PARTY OF THE P	Improbable	Major	Medium	Briefing to driver to expect pedestrians along Olympic Boulevard. During some special events (e.g. Easter Show) exit from worksite will be via Herb Elliott Ave and Australian Ave, thu avoiding this area. No road design changes proposed



Item No.	Location	Descriptions of Findings	Design/ Photo	Likelihood	Severity	Risk Rating	Designer Response
5.	Olympic Boulevard	There are locations where there is a kerb ramp with pavement tactiles and varied pavement surface freatment (across the roadway) which could suggest to pedestrians that they have right-of way at this location. Any miscommunication/misunderstanding between a motorist (including heavy vehicle driver) and pedestrian crossing the road could result in a collision. This severity of such incident occurring would be made worse if it involved a heavy vehicle.		Improbable	Major	Medium	Location north of Figtree Drive. This section of the road is not along the propose exit route. No road design changes proposed.
6.	Sarah Durack Avenue – Olympic Park Boulevard	The dedicated right-turn lane from Sarah Durack Avenue to Olympic Park Boulevard is approximately 30m in length. This would be able to accommodate a 19m heavy vehicle with one or two cars until the traffic would begin to protrude the adjacent through lane. This could impact road safety (as through traffic manoeuvres around the back of the queue) and intersection operation.		Occasional	Minor	Low	Entry route via Sarah Durack Ave will be used as an alternate route in addition to Australian Ave. Even if all heavy vehicles were to use Sarah Durack Ave, it will be approximately 1 heavy vehicle per 5min (approx.12 per hour) during peak period. The signal cycle time will be capable to allow vehicles to turn right without queuing.
							During some special events (e.g. Easter Show) exit from worksite will be via Herb Elliott Ave and Australian Ave, thus avoiding this area.



Item No.	Location	Descriptions of Findings	Design/ Photo	Likelihood	Severity	Risk Rating	Designer Response
							No changes proposed.
7.	Sarah Durack Avenue	The P3 car park shuttle bus stop is located on Sarah Durack Avenue, just before Olympic Boulevard. According to the Sydney Olympic Park website, the shuttle service travels between the P3 car park to Olympic Boulevard, presumably by turning right at the traffic signals (see figure). This could increase the probability of a sideswipe incident between an approaching	Olympic Boulevard P3 car park shuttle bus stop	Improbable	Minor	Low	Low risk due to low volume of heavy vehicles. During some specia events (e.g. Easter Show) exit from worksite will be via Herb Elliott Ave and Australian Ave, thus
		heavy vehicle and a shuttle bus merging across to the far right lane.					avoiding this area. No changes proposed.
8.	Olympic Boulevard – Herb Elliot Avenue	Despite there being No U-Turn signage at the intersection, vehicles were observed undertaking u-turns on Olympic Boulevard.	Herb Elliot Avenue		Note only		



5 Concluding Statement

The findings and opinions in the report are based on the examination of the specific road and environs, and might not address all concerns existing at the time of the audit.

The auditors have endeavoured to identify features of the road that could be modified in order to improve safety, although it must be recognised that safety cannot be guaranteed since no road can be regarded as absolutely safe.

While every effort has been made to ensure the accuracy of this report, it is made available strictly on the basis that anyone relying on it does so at their own risk without any liability to the Auditors.





Appendix A

Design Drawings





APPENDIX C CONSULTATION EVIDENCE



Thank you for sending through the second heavy vehicle access route for Aust Ave, Sarah Durack, Olympic Bld, Herb Elliott & Figtree Drive. SOPA has reviewed and approves this route conditional on the previous information SOPA sent through based on the swept vehicle analysis for the entry/exit at Figtree and Herb Elliott.

I will send through further information shortly on SOPA's requirements for the operation of the heavy vehicle access route throughout the construction period. This will include but not limited to the following:

- 1. Confirmation the Aust Ave, Sarah Durack, Olympic Bld, Herb Elliott & Figtree Drive route will be the primary route.
- 2. Confirmation the Herb Elliott, Figtree Drive to Australia Ave route will be the secondary route activated in times of major events at SOP where Olympic Boulevard will be closed.
- 3. Details on the extent of the pre-commencement photographic dilapidation report.
- 4. Procedures for heavy route road maintenance requirements throughout the works.
- 5. Completion reinstatement requirements post construction works.





Could you advise if there are any comments on the HV access route report?



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Australia Ave access is covered as part of the approved EIS (page10-20, 21 of 39, Figure 10-25)



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Working through the proposed Heavy Vehicle Access Route which is all looking good and I will provide a confirmation later this week. In looking forward you advised when we last spoke that the alternate route Australia Ave had already been submitted and that the Sarah Durack Olympic Bld was the outstanding issue. I can't locate a plan of the Australia Ave route and as such could you email across. The reason is I want to confirm within SOPA and advise afJV accordingly of the primary route and secondary route for major event mode so there is no confusion.

Please send across the Australia Ave route ASAP.



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Visit https://clicktime.symantec.com/3XqejAjdxF9kpCiBrKa2yZF6H2? u=http%3A%2F%2Fwww.sydneyolympicpark.com.au%2Fregister

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RE: Heavy Vehicle Access Route



SOPA has reviewed "Sydney Olympic Park Heavy Vehicle Route", Revision 00, dated 22/10/2021, and note that the submitted document includes:

- swept path analyses,
- 2. consideration of the impact of the use of local roads on pedestrians and cyclists,
- 3. November as the nominated month for the road dilapidation survey
- 4. Consideration of safety and schools, aged care facilities and child care facilities
- Comment from an experience traffic engineer

It would appear that the requirements of the consent, in particular Condition D87, in relation to the SOP Heavy Vehicle Route document have been met.

In addition, the document prepared addresses the requirements of Condition D87. Moreover, from the consent we can see that D86 requires that approval to be sought by the proponent from Planning Secretary.

SOPA requests that the CTMP be amended to include the route outlined in "Sydney Olympic Park Heavy Vehicle Route", Revision 00, dated 22/10/2021, as the PREFERRED route, with the route approved as part of the EIS being used only during event mode, as deemed by SOPA. Please confirm that this change can be actioned in the CTMP.

In addition to the above and in accordance with discussions to date, SOPA requires a detailed and comprehensive dilapidation report both photographic and video of existing roads and adjacent infrastructure as a base position for review and rectification requirements throughout and at the completion of the project.



Australia Ave access is covered as part of the approved EIS (page 10-20, 21 of 39, Figure 10-25)



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APPENDIX D DILAPIDATION REPORT TO SOPA









Transmittal No: SMWSTCTP-AFJ-TX-000298

Contract No: CTP - 00013/13033 - Central Tunnelling Works Design and Construction

Sub Contract:

Date: 06 December 2021, 11:15 AM

Issued	Name
Ву	
Issued	Name
То	
Cc	

Reason for Issue	Issued for Information
Subject	Sydney Metro West - CTP - Project Planning Approval Condition D88 - Road Dilapidation Report - Sydney Olympic Park Authority

Dear

SMW-CTP D&C Deed Contract No 00013/13033

Project Planning Approval Condition D88 - Road Dilapidation Report

The Tunnelling Contractor refers to the requirements of Project Planning Approval Condition D88 which requires a Road Dilapidation Report to be provided to the relevant road authority prior to any local road being used by a Heavy Vehicle for the purposes of construction.

Pursuant to the above requirement, please find enclosed the Road Dilapidation Report for the relevant Local Roads within the Sydney Olympic Park area. The Tunnelling Contractor notes that the enclosed report covers areas which are in addition to those relevant to Sydney Olympic Park Authority (SOPA). This report is provided for information only.

Would Sydney Metro please issue this correspondence and enclosed report to SOPA.

Regards,

Click here to download all Transmittal files.

Item	Document No	Title	Rev	Sts	Туре	Design Lots	Alt Doc No
1	SMWSTCTP-AFJ-1NL-CX-RPT- 000002	Sydney Metro West - CTP - Pre Construction Road Dilapidation Report - File 1 of 5	00.01	S3	RPT		
2	SMWSTCTP-AFJ-1NL-CX-RPT- 000003	Sydney Metro West - CTP - Pre Construction Road Dilapidation Report - File 2 of 5	00.01	S3	RPT		
3	SMWSTCTP-AFJ-1NL-CX-RPT- 000004	Sydney Metro West - CTP - Pre Construction Road Dilapidation Report - File 3 of 5	00.01	S3	RPT		
4	SMWSTCTP-AFJ-1NL-CX-RPT- 000005	Sydney Metro West - CTP - Pre Construction Road Dilapidation Report - File 4 of 5	00.01	S3	RPT		
1	SMWSTCTP-AFJ-1NL-CX-RPT- 000006	Sydney Metro West - CTP - Pre Construction Road Dilapidation Report - File 5 of 5	00.01	S3	RPT		