

LIVERPOOL HEALTH & ACADEMIC PRECINCT MAIN WORKS TRAFFIC AND PARKING MANAGEMENT SUB PLAN

30/03/2017 | Revision No: 9



Sub Plan Revision Status				
Date	Revision (in numbers)	Purpose and Summary of Amendments	Reviewed by	Approved by
30/03/17	2	General update including LLB GMR and legislative amendments	Tracey Wallbridge	Brian Falls
27.10.2020	DRAFT	Draft for LHAP Tender Submission	Glen O'Connor	Brooke Brittain
22/04/2021	DRAFT	LHAP	Daisy Badel	Michael Niedzwiecki
07/07/2021	Rev 1	Draft approved. Rev 1. Review Only	Lilly Cauchi	Michael Niedzwiecki
05/08/2021	Rev 2	Plan reviewed as per JohnStaff comments	Lilly Cauchi	Daniel Puljic
30/08/2021	Rev 2.1	Added DN process flowchart	Lilly Cauchi	Daniel Puljic
17/11/2021	Rev 3	General update to include reference to the CTPMP	Ian Sheils	Daniel Puljic
02/03/2022	Rev 4	General update and reference made to CTPMP prepared by Stantec in lieu of GTA	Ian Sheils	Daniel Puljic
02/06/2022	Rev 5	Review only no changes	Dylan Stewart	Daniel Puljic
02/09/2022	Rev 6	Review only no changes	Dylan Stewart	Daniel Puljic
02/12/2022	Rev 7	Review only no changes	Dylan Stewart	Daniel Puljic
05/05/2023	Rev 8	General review & references to LLB removed & LLC inserted	Nigel Rose	Daniel Puljic
07/11/2023	Rev 9	General review	Nigel Rose	Daniel Puljic

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1. SCOPE OF PROJECT AND SUB PLAN

Project Details	
Scope of the Sub Plan	<p>This Traffic and Parking Management Sub Plan provides details of the measures that will be implemented for traffic control and construction related parking activities on and around the Liverpool Hospital Academic Precinct (LHAP) project site during site establishment and construction.</p> <p>Refer to Section 1.1 and 3.1 of the Project EHS Management Plan for clarification on how the EHS Sub Plans form part of the Lendlease Construction (LLC) EHS management system.</p> <p>Refer to the Construction Traffic and Pedestrian Management Plan (CTPMP)</p>
Objectives of the Sub Plan	<ul style="list-style-type: none"> • To avoid or minimise potential conflicts between the Liverpool public, construction traffic, motorists, project neighbours and pedestrians. • To protect the public from injury and incident associated with the operation of construction vehicles and plant. • To prevent moving plant injuries to workers on the LHAP site. • To avoid creating traffic congestion and delays to the LHAP project, as far as practical.
Scope of Works	<p>This Sub Plan has been prepared based on the following scope of works and in accordance with GTA Consultants Transport and Accessibility Impact Statement.</p> <p><i>A Construction Traffic and Pedestrian Management Plan (CTPMP) has been prepared by Stantec in lieu of GTA.</i></p> <p>The LHAP Main Works Project scope is broken into three distinct packages of work. These include:</p> <p>Demolition and Construction of Stage 1</p> <ul style="list-style-type: none"> • Demolition of Education Facility, SIM, Kitchen, Library and Retail. • Diversion/Isolation/Disconnection of all associated services and plant within and supporting the Demolition works area. • Construction of ISB stage 1. <p>Demolition and Construction of Stage 2</p> <ul style="list-style-type: none"> • Demolition of Pathology, Oncology and Alex Grimson. • Diversion/Isolation/Disconnection of all associated services within and supporting the Demolition works area. • Construction of ISB Stage 2. • Construction of Campbell Street Shared Zone

- On-grade car park works – All works associated with the on-grade car park. Some recommendations/requirements related to this area are within the MSCP Volume 3 reports. These will need to be allowed within the tender price. E.g Remediation.

Refurbishment Works

- Refurbishment works within Caroline Chisholm
- Refurbishment works within the CSB.

Delivery of the project will require a large workforce and the use of a range of construction vehicles and plant

Key Issues and Risks

Construction related traffic and parking issues are expected to be mainly associated with:

- Worker numbers adding to existing pressures on public parking;
- Construction vehicle movements adding to existing traffic congestion;
- Noise from heavy vehicles using local streets;
- The delivery of materials to site during approved work hours where this occurs from a road frontage;
- The entry and queing of heavy vehicles at the site for continuous deliveries eg concrete;
- The delivery of oversized plant outside of normal hours;
- Collection and replacement of waste skips;
- Confusion and/or frustration over traffic direction, diversions, lane closures etc.
- Interaction with existing operational facilities at or adjacent to the site;
 - Liverpool Hospital Main Entrance
 - Liverpool Hospital Emergency Department
 - Liverpool Girls & Boys High Schools
 - Elizabeth Street Bus Stop
 - Liverpool TAFE
 - Campbell Street public paid parking station;

A construction zone will be established on Goulburn Street (Figure 1.1 & 1.2) to enable deliveries to be safely received at the site with minimal impact on existing traffic conditions.

Compliance with the Project EHS Plan and this Sub Plan is intended to mitigate the risks and potential impacts of construction traffic and parking on the community and adjacent facilities. If appropriate controls and monitoring are not implemented, the potential exists for:

- Traffic incidents;
- Worker or public injury;
- Motorist frustration;
- Operational impacts on local businesses and facilities;
- Complaints;
- Fines; and
- Non-compliance with permits and approvals.

Legislation,
Project
Approval and
Guidelines

Federal/National:

Work Health and Safety Act 2011

Work Health and Safety Regulations 2011

Chain of Responsibility Heavy Vehicle Transport Laws 2014

Australian Standard/ New Zealand Standard, Parking Facilities, Part 1: Off-Street Parking AS/NZS 2890.1:2004

Australian Standard, Parking Facilities, Part 2: Off Street Commercial Vehicle Facilities AS 2890.2:2018

Australian Standard/ New Zealand Standard, Parking Facilities, Part 6: Off-Street Parking for People with Disabilities AS/NZS 2890.6:2009

State:

Work Health and Safety Act 2011

Work Health and Safety Regulation 2017

Protection of the Environment Operations Act 1997

Heavy Vehicle (Adoption of National Law) Act 2013

Heavy Vehicle (Adoption of National Law) Regulation 2013

Local:

Liverpool Development Control Plan (DCP) 2008

Liverpool Local environmental Plan (LEP)

Liverpool Hospital Parking Demand Study prepared by ptc. Dated 20 December 2018

Liverpool Hospital Concept Design Traffic Report prepared by ptc. Dated 11 February 2019

DA Conditions B18 & B19

Lendlease requirements:

- Global Minimum Requirements (GMRs)
- Workplace Delivery Code (WDC)
- [CTPMP prepared by Stantec in lieu of GTA.](#)

SSDA – 10389

Construction Parking

B18. Prior to the commencement of construction, the Applicant must provide sufficient parking facilities on-site for heavy vehicles, except where separate works zone have been approved, to ensure that construction traffic associated with the development does not utilise public and residential streets or public parking facilities. [Refer to page 13 Construction Loading Zones.](#)

Construction Worker Transportation Strategy

B19. Prior to the commencement of construction, the Applicant must submit a Construction Worker Transportation Strategy to the satisfaction of the Certifier. The Strategy must detail the provision of sufficient parking facilities or other travel arrangements for construction workers in order to minimise demand for parking in nearby public and residential streets or public parking facilities. A copy of the strategy must be submitted to the Planning Secretary for information. [Refer to page 17 Construction Worker Parking.](#)

Construction Traffic

C14. All construction vehicles are to be contained wholly within the site, except if located in an approved on-street work zone, and vehicles must enter the site or an approved on-street work zone before stopping unless directed otherwise by traffic control. [Refer to page 13 Construction Loading Zones.](#)

No Obstruction of Public Way

C16. The public way (outside of any approved construction works zone) must not be obstructed by any materials, vehicles, refuse, skips or the like, under any circumstances. [Refer to page 13 Construction Loading Zones.](#)

Green Travel Plan

D9. Prior to the commencement of operation, a Green Travel Plan (GTP) must be submitted to the satisfaction of TfNSW to promote the use of active and sustainable transport modes. The plan must:

- (a) be prepared by a suitably qualified traffic consultant in consultation with Council and TfNSW;
- (b) set mode share targets that encourage the use of public and active transport and reduce the proportion of single-occupant car journeys to the site;
- (c) identify robust actions and strategies to meet the mode share targets in the first two, five and 10 years post occupation;
- (d) include a Transport Access Guide that provides information to employees, patients and visitors about the range of travel modes, access arrangements and supporting facilities that service the site, including bicycle parking and other end of trip facilities;

- (e) identify relevant workplace policies such as flexible working arrangements that enable administrative staff to travel outside peak periods, or which reduce the need for work related travel;
- (f) consider the appropriateness of any relevant parking policies to manage travel demand, including a measure to apply higher car parking charges during peak times to encourage off-peak use;
- (g) details of carpooling operations and monitoring of parking priority;
- (h) appoint a Travel Plan Coordinator to oversee the implementation of the GTP and Transport Access Guide;
- (i) nominate a party responsible for the ongoing monitoring and review of the GTP, including the delivery of actions and associated mode share targets;
- (j) include a breakdown of staff shift patterns including the number of staff commencing shifts at particular times; and the residential postcodes of where those staff are travelling from, if known; and
- (k) include, if available, details of visiting hours and anticipated numbers of patients and visitors.

<p>Summary of Site Controls</p>	<p>Works must be undertaken in accordance with the Lendlease GMRs, the Project EHS Plan, this Sub Plan and the Lendlease Construction WDC. These documents detail Lendlease’s approach and commitment to pro-active and responsible project management.</p> <p>Site specific controls, monitoring, reporting and performance measures have been identified in this Sub Plan to minimise the potential conflicts and impacts of construction traffic on the Liverpool community, neighbours, motorists and workers.</p> <p>These include but are not limited to:</p> <ul style="list-style-type: none"> • Ensuring that relevant information on changes to traffic arrangements including lane closures on Goulbourn St, Elizabeth St and Campbell St and details are clearly displayed or provided to relevant stakeholders in advance of the change; • Installing clear and concise signage on local roads being used by construction traffic; • Establishing a Construction Loading Zone on Goulbourn Street; subject to review with LHD via the DN / CIG process. See DN process attached in figure 4. • Separating construction traffic and workers within the site using hard barriers and signage; • Controlling construction vehicle access and egress to the site with Authorised Traffic Controllers; • Providing parking for construction staff at Collimore Park, via a 5 minute bus ride (Figure 2); • Evaluating the effectiveness of traffic measures.
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Traffic management requirements, access restrictions, road authority requirements and general site rules related to parking and start times, must be included in relevant specifications, contract agreements, quality assurance documents, and subcontractor work method statements.

Site inspections, monitoring and reporting will be undertaken by Lendlease and subcontractors as detailed in the EHS Plan and the following implementation table.

2. IMPLEMENTATION OF THE SUB PLAN

Control Measure	Timing	Methodology	Responsibility	Monitoring and Reporting	Performance Measurement
Planning and Site Establishment					
Obtain details of existing traffic conditions/vehicle numbers etc, and copies of any existing local Liverpool road and traffic management plans.	During design. Prior to works commencing	Review existing data and assess existing conditions to determine the potential impact of construction related activities. Identify the requirements of the relevant road authority and incorporate into the design of the site setup and project documents.	CM SM	IHRA includes an assessment of traffic and is updated monthly. Complaints are logged and a response provided.	Agreement on traffic arrangements achieved. Relevant permits and approvals obtained.
Include information in the LHAP Site Induction about traffic and parking locations, restrictions and site rules.	Prior to construction	Revise Lendlease induction package to include site specific information.	CM SM	Subcontractor WMSs address traffic and deliveries.	Site induction delivered to all workers on site.
Prepare a Construction Traffic Circulation Environmental Management Diagram (EMD) identifying each stage of the LHAP project and likely traffic conditions.	Prior to commencing works	Prepare EMD (Appendix 1) in accordance with road authority and project approval requirements and in a manner consistent with existing TMPs/assessments. Address traffic movements, routes, parking etc internally and external to the site. Where possible, design the site access, delivery and collection areas, and internal roads so that vehicles are moving in a forward direction at all times. Communicate the requirements to key personnel.	CM SM Engineers	Review of EMD prior to works commencing Revised monthly during construction	Diagram prepared and containing all relevant details.

Control Measure	Timing	Methodology	Responsibility	Monitoring and Reporting	Performance Measurement
During Construction					
Control vehicles and human access into and within the LHAP site.	At all times	<p>Install gates and signage to prevent unauthorised access to the site.</p> <p>Ensure that delivery drivers remain in their vehicle (unless they are inducted) and are instead instructed by the relevant supervisor.</p> <p>Provide visitor and worker parking (where possible) and clearly delineate these areas.</p>	SM	<p>Include in subcontractor WMS.</p> <p>Include on EMD (Appendix 1).</p> <p>Document approved routes.</p> <p>Monitor site entry and local road use.</p> <p>Check site signage.</p> <p>Monitor compliance using incident / observation recording platform - enablon</p>	<p>No unauthorised access identified.</p> <p>Signage in place and maintained.</p>
Control construction traffic and plant movements and deliveries within and external to the LHAP site.	At all times	<p>Establish physical barriers and signage to control traffic direction, speed (10km/hr) and movements to/within the site.</p> <p>Ensure construction traffic uses approved/controlled site access points only.</p> <p>Identify locations and restrictions for vehicle parking and queuing.</p> <p>Mandate that construction traffic uses approved road routes (Figure 3) only during approved times only.</p> <p>For concrete pours, provide a traffic controller to oversee trucks reversing to hoppers. Isolate the pump and surrounding area.</p>	SM Engineers Sub-contractors	<p>Monitor vehicle movements.</p> <p>Monitor compliance with authority requirements.</p> <p>Monitor compliance using incident / observation recording platform - enablon</p>	<p>No non-conformances against regulatory requirements.</p> <p>No complaints or fines.</p> <p>No plant-personnel impact incidents.</p>

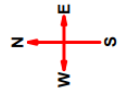
Control Measure	Timing	Methodology	Responsibility	Monitoring and Reporting	Performance Measurement
		Address the requirements of the relevant road authority and project approval in all WMS and TMPs.			
Schedule deliveries and waste collection at times that minimise the impact of the activity on local Liverpool traffic conditions.	At all times	Identify appropriate delivery times and communicate these to supplies/service providers. Identify suitable locations for delivery trucks to park (away from moving vehicles) so that contact can be made with the relevant site representative for access.	SM Sub-contractors	Monitor compliance using incident / observation recording platform - enablon	Impacts minimised. No complaints.
Vehicles moving direction	At all times	All vehicles moving on site will move in a forward direction. If reversing is necessary the subcontractor will ensure suitably trained person will give direction and keep other persons from entering the area. Detailed and instructed in the Site induction and included in contractors SWMS	All	Monitor compliance using incident / observation recording platform - enablon	No unguided reversing.
Prevent the tracking of soil/mud off-site by construction vehicles.	At all times	<i>Refer to the Stormwater, Erosion and Sediment Control Management Sub Plan.</i> Site may require a wheel wash or shaker facility to be installed. All loads covered by contractor.	SM Sub-contractors	Condition of site access monitored and maintained. Monitor compliance using incident / observation recording platform - enablon	No tracking. No spillage of material. No complaints or fines.
Ensure all vehicles entering site are road registered and being maintained in good condition.	At all times	Subcontractors must undertake daily inspections.	SM Foreman	Monitor compliance using incident /	No non-complying plant used on site.

Control Measure	Timing	Methodology	Responsibility	Monitoring and Reporting	Performance Measurement
		<p>Gate keeper to monitor construction vehicle registration and condition.</p> <p>All operators must hold appropriate certification of competency and/or be trained and supervised (as relevant).</p>		<p>observation recording platform - enablon</p> <p>Address in subcontractor WMS.</p> <p>Review and retain plant inspection records.</p>	<p>No unqualified operators identified.</p> <p>No plant related incidents (spillage).</p>
<p>Maintain all existing hospital vehicle drop-off and entry points and entry and exit points (temporary or permanent) Including access routes for all emergency services</p>	<p>At all times</p>	<p>Where this is not possible, or changes occur to these facilities Lendlease will establish signage and wayfinding to the area to ensure the public are clearly directed to these new facilities.</p> <p>Access / egress / exit signage sign posted where required</p> <p>Drawings of access / egress routes to be available and in date</p> <p>Materials are not to be left in any access way</p>	<p>SM Foreman</p>	<p>Monitor compliance using incident / observation recording platform - enablon</p>	<p>Minimise the impact on the public and any confusion resulting from changes.</p> <p>No complaints</p> <p>Existing routes for emergency services kept clear</p> <p>No Delays for emergency vehicles</p>
<p>Way finding to be maintained throughout staged construction</p>	<p>At all times</p>	<p>The public way must not be obstructed by any materials, vehicles, refuse, skips or the like under any circumstances</p> <p>Signage will be displayed</p>	<p>SM Foreman</p>	<p>Monitor compliance using incident / observation recording platform - enablon</p>	<p>No confusion for the public / staff / patients</p> <p>No complaints</p>

FIGURE 1: CONSTRUCTION LOADING ZONES

Stage 1 Site Setup





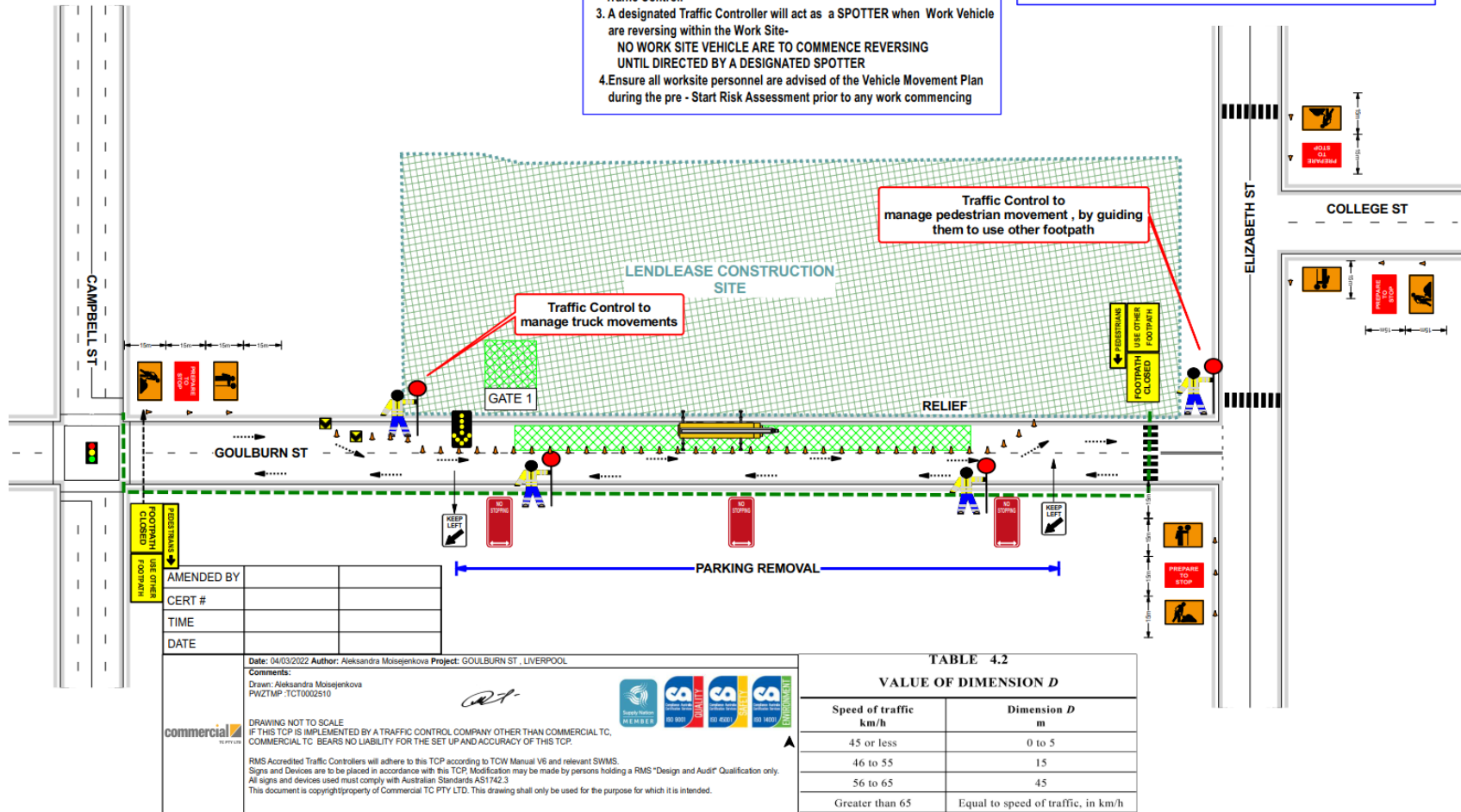
<p>Drawn By : Aleksandra Moisejenkova Licence Num: 0051855538</p>	DATE: 04/03/2022	TRAFFIC CONTROL PLAN		<small>This traffic control plan is drawn to AS1742.3 and the R.T.A workable manual for traffic control at work sites. It is to be implemented as such. This traffic plan is a GUIDE ONLY and can be altered on site but must be signed by an R.T.A accredited person. Approach vehicles can be given day/night - slow signs to be used and personnel to wear Hi-Viz clothing and to park within the work site. R.T.A certified traffic controllers to be employed.</small>
	LOCATION CUSTOMER: GOULBURN ST, LIVERPOOL TCP No 21	NAME: Aleksandra Moisejenkova Licence No: TCT0002510		

LEGEND

- REPRESENTS LEND LEASE SITE
- PEDESTRIAN PATHWAY
- TRUCK DEPARTURE
- TRUCK ARRIVAL
- CONCERTINA GATE
- WORK ZONE

Note;

- All work vehicles to be parked on workside of the roadway
- Work vehicle movements will be under the direction of Traffic Control.
- A designated Traffic Controller will act as a SPOTTER when Work Vehicle are reversing within the Work Site- NO WORK SITE VEHICLE ARE TO COMMENCE REVERSING UNTIL DIRECTED BY A DESIGNATED SPOTTER
- Ensure all worksite personnel are advised of the Vehicle Movement Plan during the pre - Start Risk Assessment prior to any work commencing



	AMENDED BY	
	CERT #	
	TIME	
	DATE	

Date: 04/03/2022 Author: Aleksandra Moisejenkova Project: GOULBURN ST, LIVERPOOL
 Comments:
 Drawn: Aleksandra Moisejenkova
 PWZTMP :TCT0002510

[Signature]

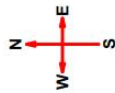
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 COMMERCIAL TC BEARS NO LIABILITY FOR THE SET UP AND ACCURACY OF THIS TCP.

RMS Accredited Traffic Controllers will adhere to this TCP according to TCW Manual V6 and relevant SWMS.
 Signs and Devices are to be placed in accordance with this TCP. Modification may be made by persons holding a RMS "Design and Audit" Qualification only.
 All signs and devices used must comply with Australian Standards AS1742.3
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TABLE 4.2
VALUE OF DIMENSION D

Speed of traffic km/h	Dimension D m
45 or less	0 to 5
46 to 55	15
56 to 65	45
Greater than 65	Equal to speed of traffic, in km/h



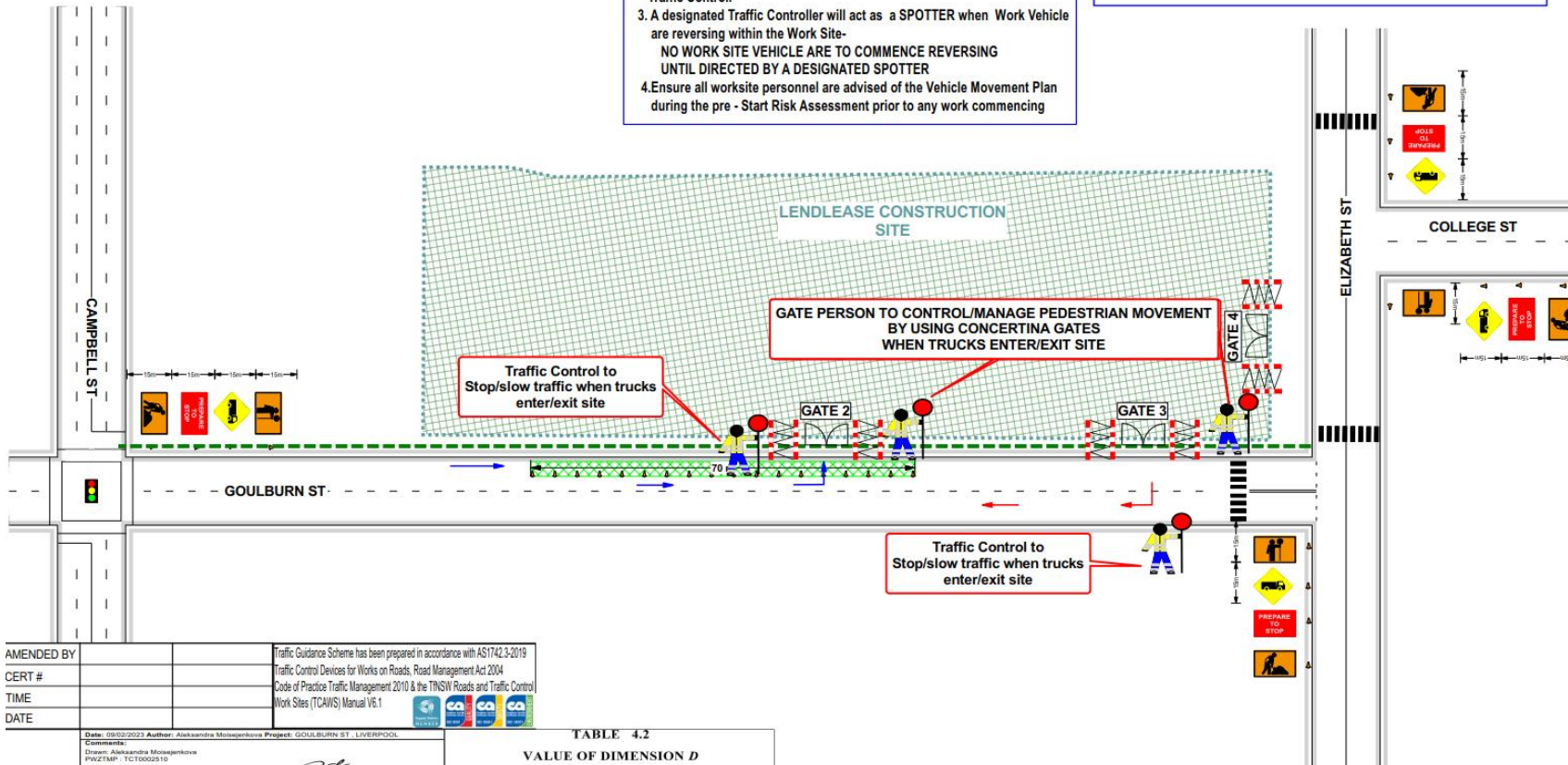
	DATE: 09/02/2023	TRAFFIC GUIDANCE SCHEME		<small>THIS TRAFFIC GUIDANCE SCHEME IS BASED ON THE NSW RMS TCARS MANUAL V5.1 & AS1742.3-2019 APPROVALS / PERMITS TO BE ON SITE AT ALL TIMES</small> <small>Traffic Guidance Scheme has been prepared in accordance with AS1742.3-2019 Traffic Control Devices for Works on Roads, Road Management Act 2004 Code of Practice Traffic Management 2010 & the TNSW Roads and Traffic Control Work Sites (TCARS) Manual V5.1</small>
	Drawn By : Aleksandra Moisejenkova Licence Num: TCT0002510	LOCATION: GOULBURN ST , LIVERPOOL CUSTOMER: Stage 1-TRUCK AND DOGS ENTRY/EXIT SITE TGS No 31	NAME: Aleksandra Moisejenkova Licence No: TCT0002510	

LEGEND

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- TRUCK ARRIVAL
- CONCERTINA GATE
- WORK ZONE

Note;

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- Ensure all worksite personnel are advised of the Vehicle Movement Plan during the pre - Start Risk Assessment prior to any work commencing



AMENDED BY		Traffic Guidance Scheme has been prepared in accordance with AS1742.3-2019
CERT #		Traffic Control Devices for Works on Roads, Road Management Act 2004
TIME		Code of Practice Traffic Management 2010 & the TNSW Roads and Traffic Control
DATE		Work Sites (TCARS) Manual V5.1

Date: 09/02/2023 Author: Aleksandra Moisejenkova Project: GOULBURN ST - LIVERPOOL

Comments:
 Drawn: Aleksandra Moisejenkova
 PVZ/TMP : TCT0002510

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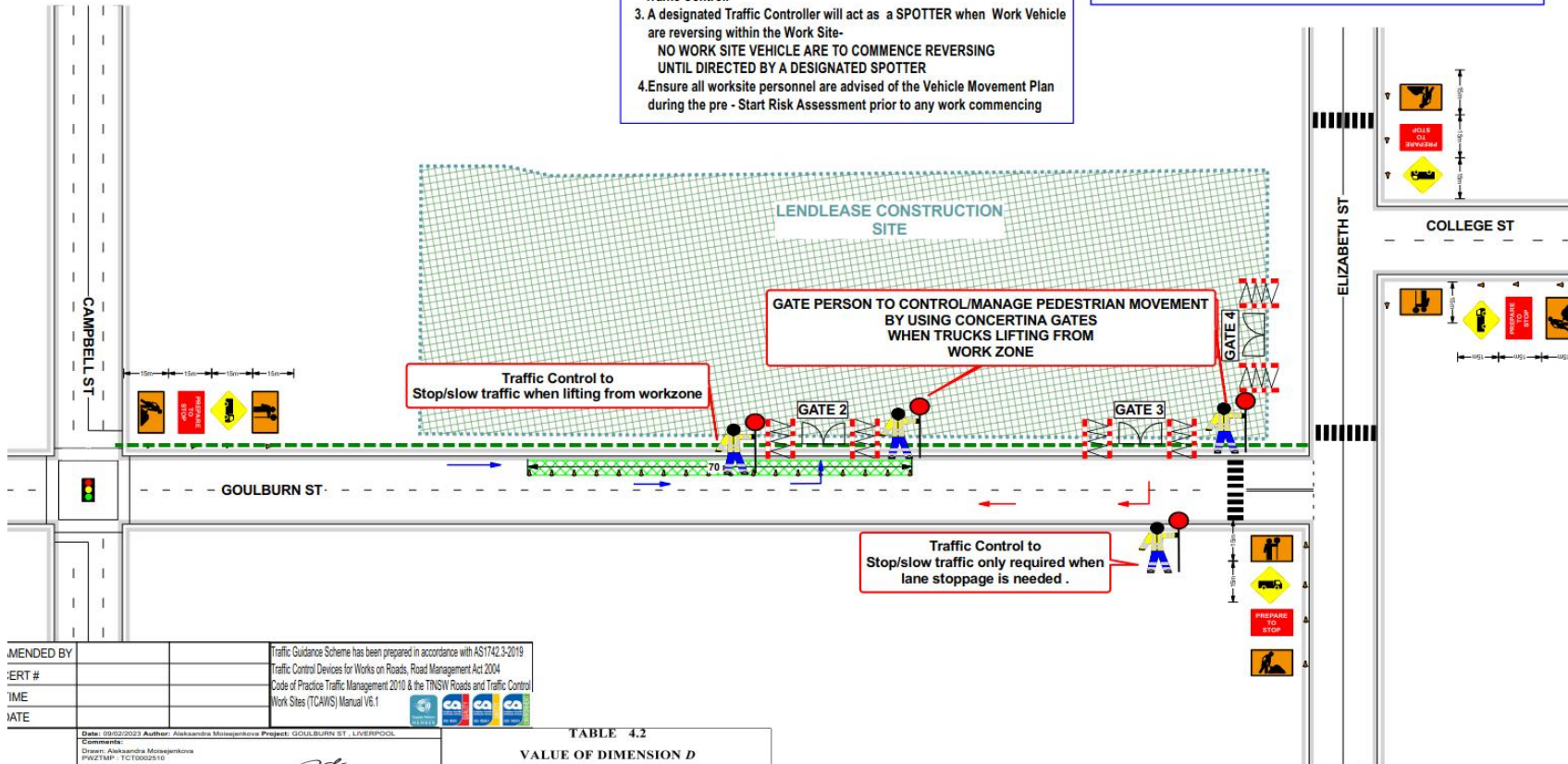


 Drawn By : Aleksandra Moisejenkova Licence Num: TCT0002510	DATE: 09/02/2023	TRAFFIC GUIDENCE SCHEME		THIS TRAFFIC GUIDENCE SCHEME IS BASED ON THE NSW RWB TCAMS MANUAL V6.1 & AS1742.3-2019 APPROVALS / PERMITS TO BE ON SITE AT ALL TIMES Traffic Guidance Scheme has been prepared in accordance with AS1742.3-2019 Traffic Control Devices for Works on Roads, Road Management Act 2004 Code of Practice Traffic Management 2010 & the TNSW Roads and Traffic Control Work Sites (TCAWS) Manual V6.1
	LOCATION: GOULBURN ST, LIVERPOOL CUSTOMER: Stage 1-LIFTING FROM WORKZONE	NAME: Aleksandra Moisejenkova Licence No: TCT0002510		

REPRESENTS LEND LEASE SITE
 PEDESTRIAN PATHWAY
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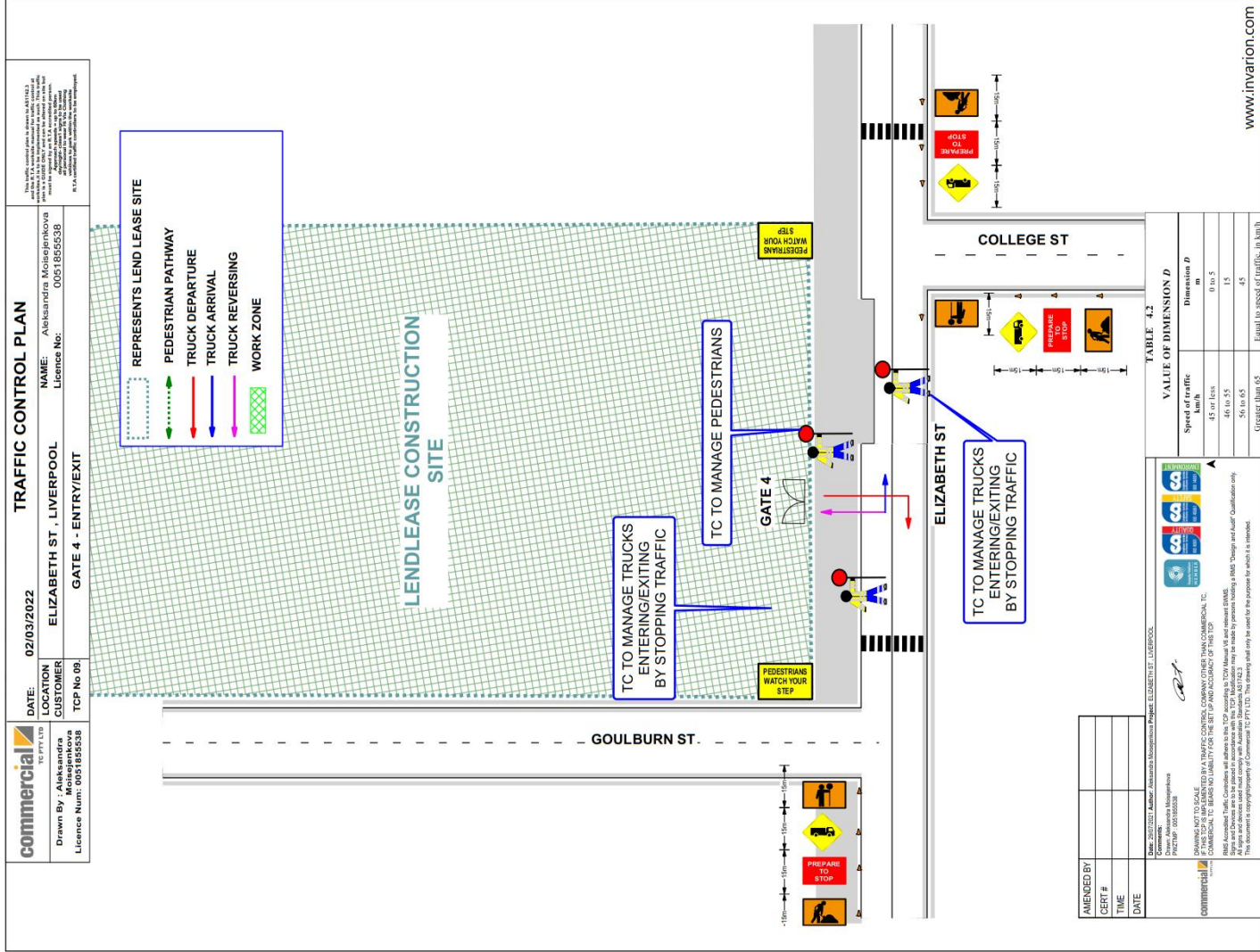
APPROVED BY		Traffic Guidance Scheme has been prepared in accordance with AS1742.3-2019
PERMIT #		Traffic Control Devices for Works on Roads, Road Management Act 2004
TIME		Code of Practice Traffic Management 2010 & the TNSW Roads and Traffic Control
DATE		Work Sites (TCAWS) Manual V6.1

TABLE 4.2

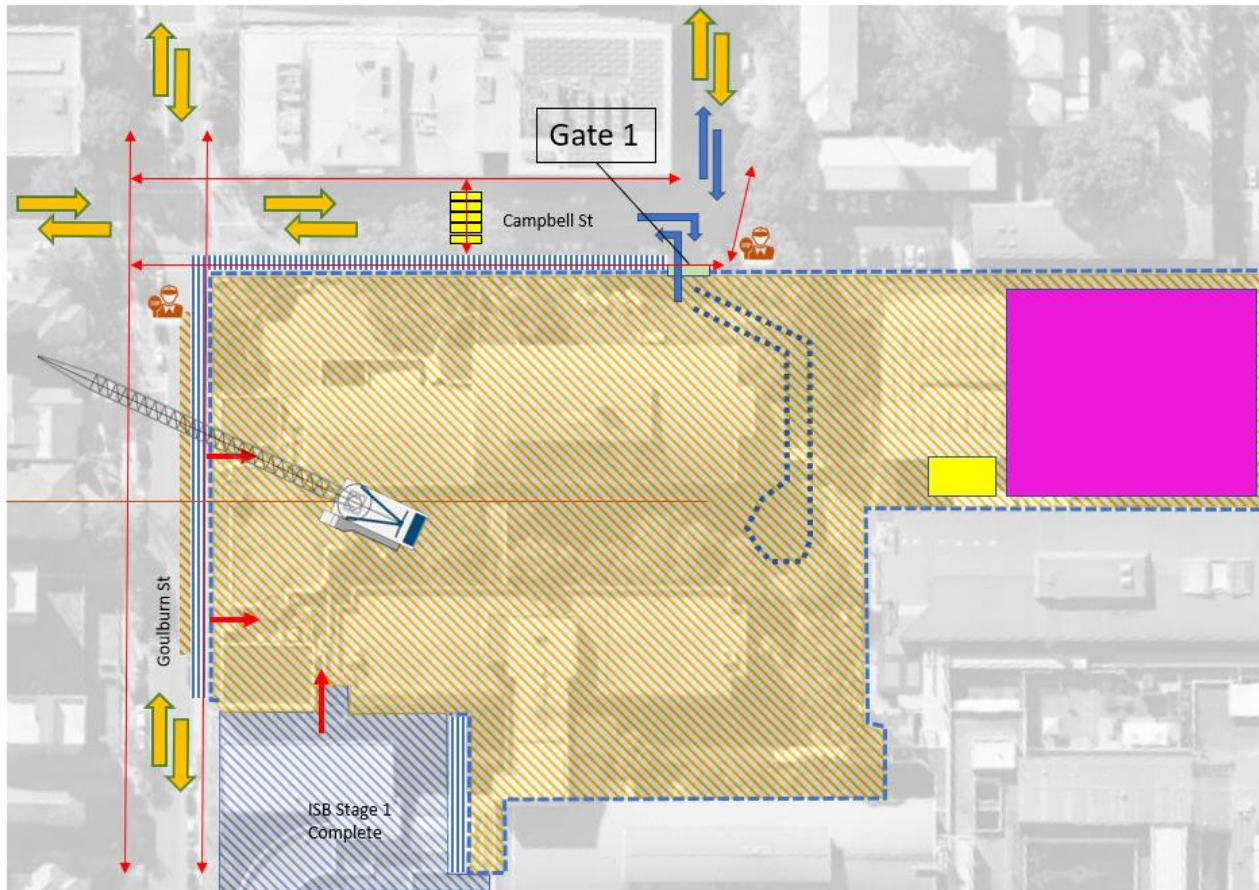
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Date: 09/02/2023 Author: Aleksandra Moisejenkova Project: GOULBURN ST LIVERPOOL
 Comments:
 Drawn: Aleksandra Moisejenkova
 PWZT/MP: TCT0002510
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Stage 2 Site Setup



	'A' Class Hoarding
	Type 1 Hoarding & TPZ (where applicable)
	Gate
	'B' Class Hoarding
	Loading Zone
	Pedestrian access route
	Building Entrances, access to be maintained
	Pedestrian Crossing
	Direction of vehicle travel
	Direction of Construction vehicle
	Traffic Controller/ Gate Person (when gate operational)
	Construction Vehicle
	Material Storage
	Haz Subs Storage

Stage 2 Site Setup

CONSTRUCTION STAGE 2

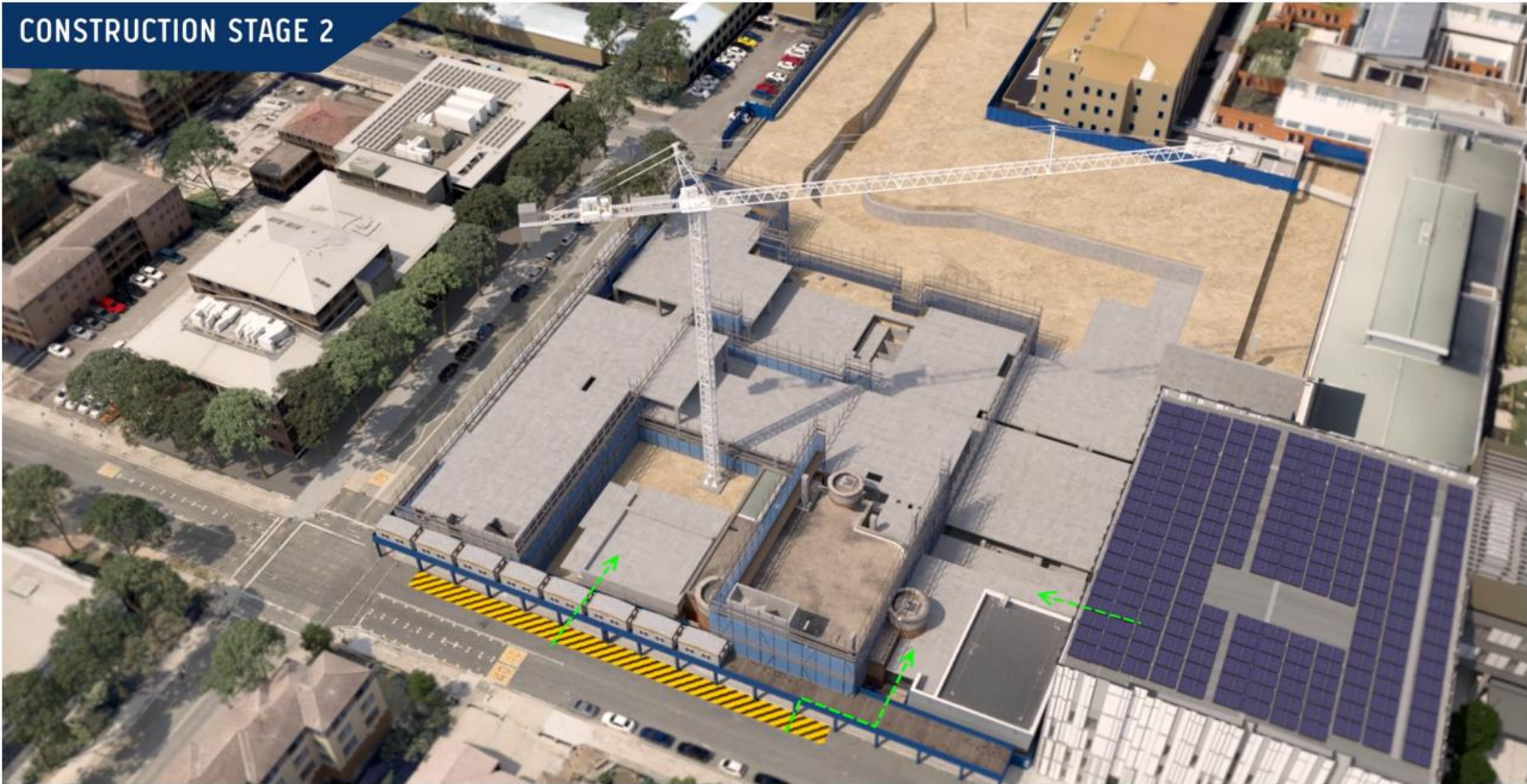


FIGURE 2: CONSTRUCTION WORKER PARKING

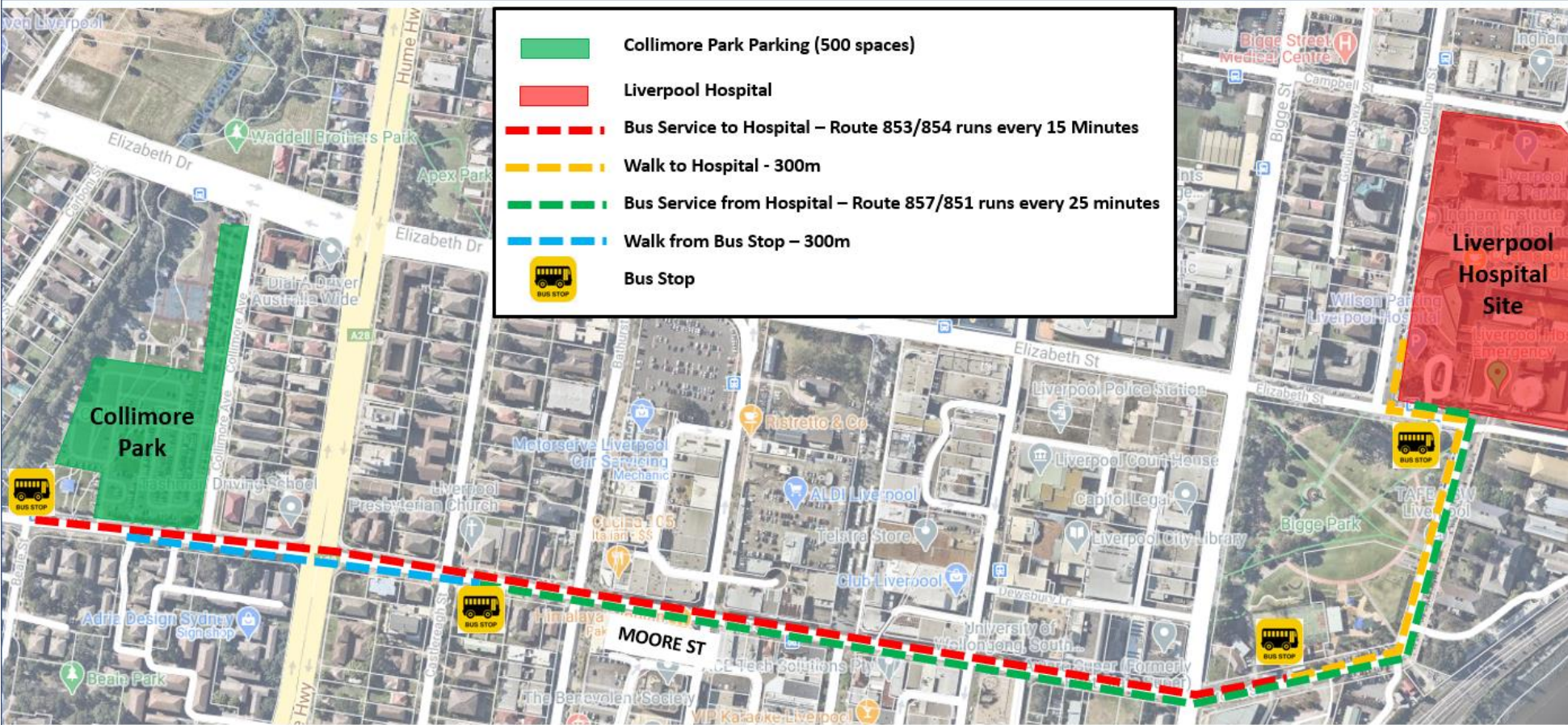


FIGURE 3: CONSTRUCTION VEHICLE HAUL ROADS

Approach Routes

- Hume Highway, Remembrance Avenue, Hart Street, Burnside Drive
- Hume Highway, Bigge Street, Campbell Street.

Departure Routes

- Burnside Drive: Burnside Drive, Hart Street, Remembrance Avenue, Hume Highway
- Campbell Street, Bigge Street, Hume Highway.

Figure 11.1: Construction vehicle approach routes

