

CRANE AND HEAVY VEHICLE LOCATIONS AND PATHWAYS

Guidelines for Bedford Park campus

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Related links

[Application for crane or heavy vehicle access onto Bedford Park campus](#)

[Flinders University contractor web pages](#)

[SafeWork Australia Guidelines](#)

Introduction

Property Facilities & Development (PFD) has issued this guideline in its role as the University division responsible for both delivering infrastructure works and ensuring the safety of all campus users at Bedford Park campus.

Heavy vehicles and cranes regularly access the campus road network and car parks, predominantly for event infrastructure deliveries and in support of building and infrastructure works.

In Australia, the Heavy Vehicle National Law defines “heavy vehicles” as those vehicles with a Gross Vehicle Mass (GVM) or Aggregate Trailer Mass (ATM) of more than 4.5 tonnes. For the purpose of this guideline, the above definition includes vehicle and/or trailer-mounted cranes.

(The GVM or ATM of a vehicle is the maximum it can weigh when fully loaded, as per the relevant manufacturer’s specifications.)

Bedford Park campus has many hard-standing locations that appear appropriate for temporarily housing of cranes and heavy plant; but not all surfaces have the same load-bearing capability, and restrictions may apply depending on the use of the area and types of activities occurring there.

Purpose of this document

This document provides details about the following:

- Details of maximum weight loadings across the Bedford Park campus road system and car parks, as well as appropriate vehicle classes and frequency of access in each area; and
- The process for obtaining permission from the University to bring heavy vehicles onto campus.

What this guideline does not include

This guideline is limited to providing information about weight load tolerances in the campus road network and car parks, plus appropriate campus locations for the temporary siting of mobile cranes.

As such this guideline does not relate to:

- access by emergency vehicles for the purpose of emergency response
- the University's permit application process for contractors working-on-campus
- the University's WHS plant safety policies and procedures, covered in the following:
 - Plant Safety Procedures (<https://www.flinders.edu.au/content/dam/documents/staff/policies/health-safety/plant-safety-procedures.pdf>)
 - Work Health and Safety Risk Management Procedures (<https://www.flinders.edu.au/content/dam/documents/staff/policies/health-safety/whs-risk-management-procedures.pdf>)
 - Electrical Safety Procedures (<https://www.flinders.edu.au/content/dam/documents/staff/policies/health-safety/electrical-safety-procedures.pdf>)
- Commonwealth legislation relating to safe work practices (see [AS 2550: 'Cranes, hoists and winches - Safe use'](#) and the [SafeWork Australia 'General Guide for Cranes'](#))
- relevant Commonwealth 'Chain of Responsibility' legislation, including University obligations as part of the supply chain to ensure safety re: any transportation above **4.5 tonnes (inclusive of load)** (<https://www.nhvr.gov.au/safety-accreditation-compliance/chain-of-responsibility/changes-to-cor>)
- access and load limits pertaining to sites other than Bedford Park campus – in these cases, please seek information for limits and access from the relevant Property Owner(s).

Criteria for heavy vehicle access to campus

RESPONSIBILITY

While PFD processes help to minimise risk, contractual liability remains the responsibility of the relevant project head contractor bringing heavy vehicles and/or vehicle-mounted plant onto campus: it is for the head contractor to ensure permission has been granted by the University, and that all appropriate safety measures are in place for the duration of the plant/vehicles' presence at Bedford Park. You can find the relevant [application form](#) on our [contractor web pages](#).

CAMPUS WEIGHT LIMITS (PER AXLE)

At Bedford Park campus, a 'per axle' weight measurement applies. For example, a three-axle truck with a GVW of 6 tonnes (i.e., two tonnes per axle) are not permitted to enter campus roads (or car parks) with a one tonne weight limit per axle.

Vehicles are not permitted to travel on any campus road (or car park) that has a weight limit which excludes that vehicle, even if the vehicle will eventually arrive in an area with an appropriate weight limit.

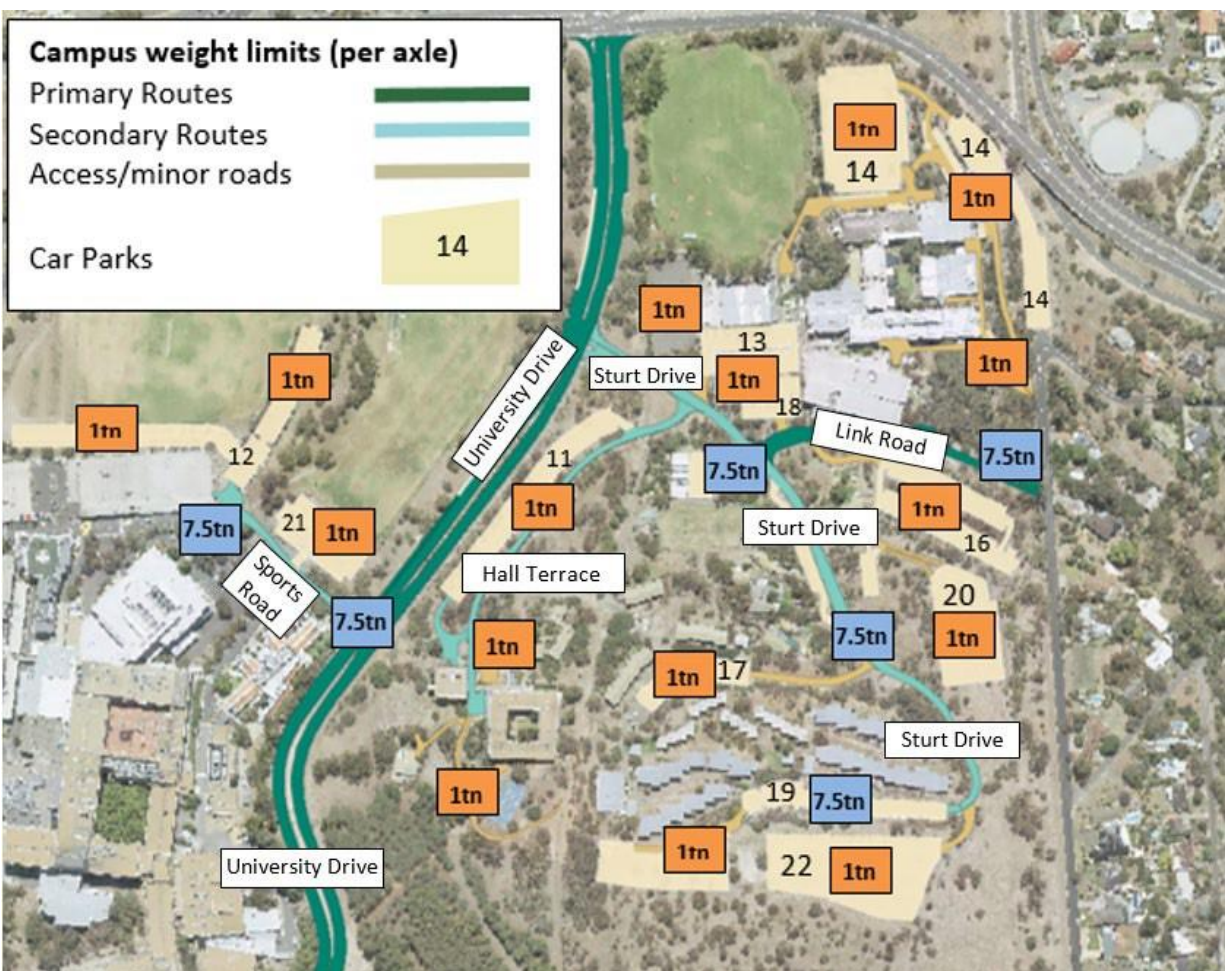
MAXIMUM JOURNEYS PER DAY

To prevent damage from repetitive vibration and weight loads, some campus roads can only be used by heavy vehicles a certain number of times per day, as detailed in Appendix B.

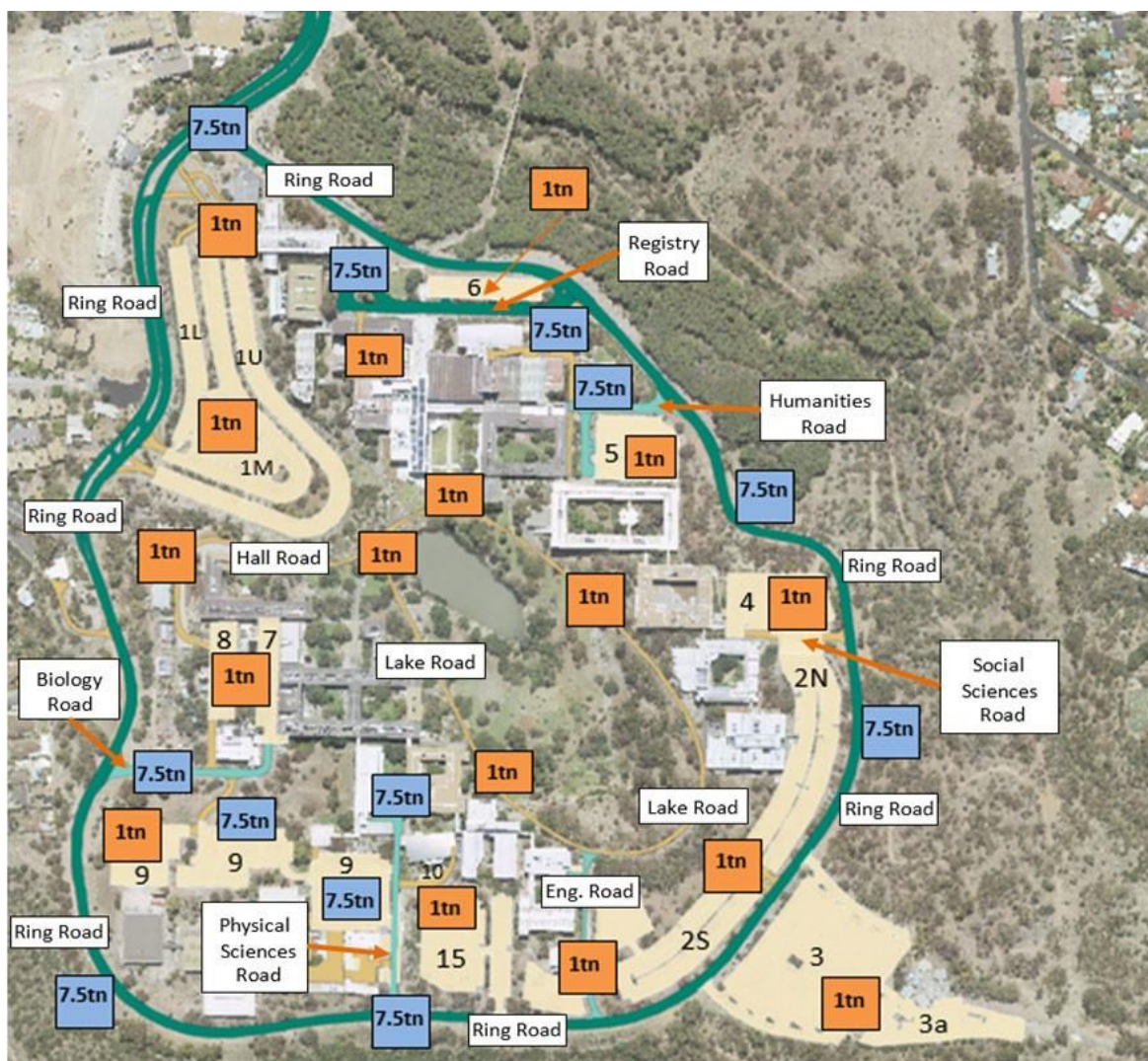
CAMPUS MAPS

Appendix B lists acceptable axle loads, vehicle classes, journey frequencies and other pertinent information about each road and car park at Bedford Park. The following maps provide pictorial representations of the data listed in Appendix B.

Map 1: Sturt, Flinders Living, Sports Ovals and FMC



Map 2: North Ridge, South Ridge, Lake, Forest and South Gully



APPROVAL PROCESS

University approval is required in advance for any movement on or through Bedford Park campus by heavy vehicles and/or cranes. **Access can only occur after the Director, PFD has provided written permission.** You can find the relevant [application form](#) on our [contractor web pages](#).

When identifying the need for a heavy vehicle and/or crane on campus, the key contact at Flinders University (eg a Project Manager) will refer the matter to the Manager, Campus Operations, who will need to endorse this prior to proceeding with the application for approval. The key contact will then request approval from the Director, PFD who has delegated authority from the University Council to grant permission.

Comprehensive details of the campus access must be provided on the application, including the following:

- **Vehicle movement schedule**, detailing campus entry, egress and all movements
- **Type of vehicle** – model, no. of axles, maximum axle weight
- **Project area controls**, eg Traffic Management Plan(s), SWMS (note that this is required for high risk construction works under [SafeWork Australia Guidelines](#)), etc
- **Operating contractors** – company names plus relevant project contacts
- **Other FU permit requirements**, eg working at heights, hot works, etc.
- **Any other pertinent information to fully inform the Director's decision.**

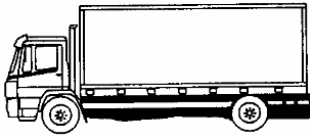
Appendix A: AustRoads Vehicle Classes



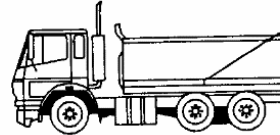
Class 1
Short Vehicle



Class 2
Short Vehicle Towing



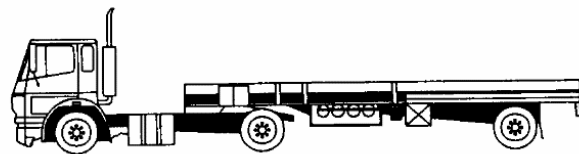
Class 3
Two Axle Truck



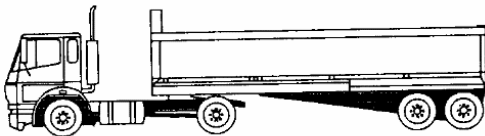
Class 4
Three Axle Truck



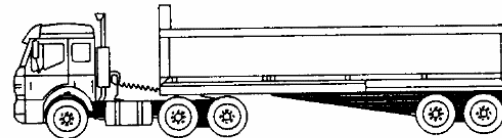
Class 5
Four Axle Truck



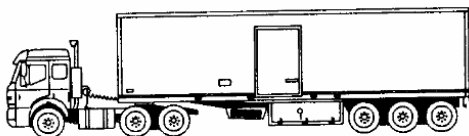
Class 6
Three Axle Articulated Vehicle



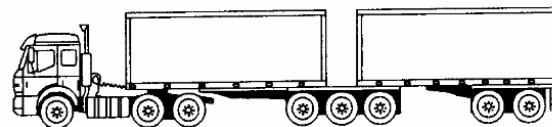
Class 7
Four Axle Articulated Vehicle



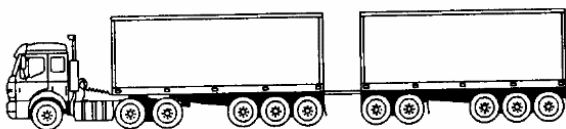
Class 8
Five Axle Articulated Vehicle



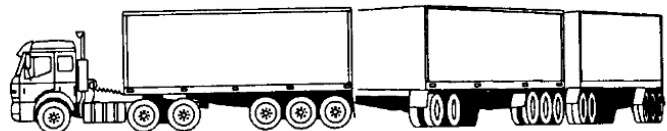
Class 9
Six Axle Articulated Vehicle



Class 10
B Double



Class 11
Double Road Train



Class 12
Triple Road Train

Appendix B: Campus vehicle loads and use

Car park/ Road	Max. vehicle class	Max. weight per axle	Frequency	Occasional use	Notes
Car park 1	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 2	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 3 *	Class 2	1.0tn	No restriction	Occasional Class 4	* Includes gravel area
Car park 4	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 5	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 6	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 7	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 8	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 9 *	Class 4	7.5tn	No restriction	Occasional Class 8	* In gravelled area: Class 2/ 1tn / No restriction/ Occ. Class 4
Car park 10	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 11	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 12	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 13	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 14	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 15	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 16	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 17	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 18	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 19	Class 4	7.5tn	<10 per day	Occasional Class 8	
Car park 20	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 21	Class 2	1.0tn	No restriction	Occasional Class 4	
Car park 22	Class 2	1.0tn	No restriction	Occasional Class 4	
Data Centre CP	Class 2	1.0tn	No restriction	Occasional Class 4	
Biology Rd	Class 4	7.5tn	<10 per day	Occasional Class 8	
Engineering Rd	Class 2	1.0tn	No restriction	Occasional Class 4	
First Tce	Class 4	7.5tn	<10 per day	Occasional Class 8	
Hall Tce	Class 2	1.0tn	No restriction	Occasional Class 4	
Haul Rd	Class 2	1.0tn	No restriction	Occasional Class 4	
Humanities Rd	Class 4	1.0tn	<10 per day	Occasional Class 8	
Lake Rd *	Class 2	1.0tn	No restriction		*Includes all near-Hub areas
Link Rd	Class 4	7.5tn	<10 per day	Occasional Class 8	
Phys. Sci. Rd	Class 4	7.5tn	<10 per day	Occasional Class 8	
Registry Rd *	Class 4	7.5tn	<10 per day	Occasional Class 8	*Acceptable for a 60tn mobile crane single return trip

Ring Road	Class 8	7.5tn	<25 per day		*Acceptable for a 60tn mobile crane single return trip
Soc. Sci. Rd	Class 2	1.0tn	No restriction	Occasional Class 4	
Sports Rd	Class 4	7.5tn	<10 per day	Occasional Class 8	
Student Plaza *	Class 2	1.0tn	No restriction	Occasional Class 4	*Concrete areas only (no lawn access)
Sturt Depot	Class 4	7.5tn	<10 per day	Occasional Class 8	
Sturt Dr. *	Class 4	7.5tn	<10 per day	Occasional Class 8	*Includes Townhouses access
University Dr.*	Class 8	7.5tn	<25 per day		*Acceptable for a 60tn mobile crane single return trip