



mainroads
WESTERN AUSTRALIA

*We're working for
Western Australia.*

Class 1 RAV Low Loader Overmass Period Permit

Operating Conditions

Printed copies are uncontrolled unless marked otherwise.
Refer to the Main Roads website for current version.

D13#399261
February 2026

Contents

REFERENCES AND RELATED DOCUMENTS.....	4
DEFINITIONS	4
1 APPLICATION	5
1.1 Approved Vehicles.....	5
2 COMPULSORY WA HEAVY VEHICLE ACCREDITATION	7
2.1 Requirement for Accreditation	7
2.2 Effect on the Permit	7
2.3 Non-Application of this Section.....	7
3 LICENSING REQUIREMENTS	7
3.1 Requirement for Appropriate Vehicle Licensing	7
3.2 Complying with Licence Conditions	7
4 COMPULSORY HEAVY VEHICLE INCIDENT REPORTING.....	7
5 DIMENSION REQUIREMENTS	7
6 MASS LIMITS.....	7
7 AXLE SPACING REQUIREMENTS.....	8
7.1 Axle Spacing Limits	8
7.2 Measuring Axle Spacings	8
8 CARRYING MULTIPLE ITEMS.....	9
9 ACCESS REQUIREMENTS.....	9
9.1 Permitted Roads	9
9.2 Route Survey	9
9.3 Prohibited Roads	9
9.4 Restricted Bridges	9
9.5 Crossing Bridges	9
9.6 Minimum Following Distance	10
9.7 Parking.....	10
10 PERMIT STATUS.....	10
10.1 Permit Suspension & Revocation	10
10.2 Permit Amendments & Notifications	10

Document Control

Owner	Director Heavy Vehicle Services
Custodian	Manager Heavy Vehicle Road Network Access
Document Number	D13#399261
Issue Date	August 2013
Review Frequency	As Required

Amendments

Revision Number	Revision Date	Description of Key Changes	Section
1	23/04/2020	Updated document format, increased steer axle mass limits and increased "F" axle spacing limit.	All
2	18/06/2020	Added Tonkin Highway, north of Reid Highway as a prohibited road.	cl. 8.3
3	4/08/2020	Changed name of bridge list to <i>Class 1 Overmass Restricted Structures</i>	cl. 8.4
4	08/09/2020	Updated Compulsory Heavy Vehicle Incident Reporting.	s. 3
5	05/10/2020	Removed Tonkin Hwy, north of Reid Hwy from Prohibited Roads.	cl. 8.3
6	27/10/2020	Changed name of bridge list to Class 1 RAV Low Loader Overmass Restricted Structures	cl. 8.4
7	09/08/2022	Added reference to bridge crossing permit.	cl. 8.5
8	28/10/2025	Updated hyperlinks due to website changes. Allowed all categories to be substituted with semi-trailer or jinker. Clarified accreditation requirements.	cl.1.1.2, s.2
9	12/02/2026	Updated images. Clarified licensing requirements. Allowed for 7.1t steer axle mass. Added parking provisions.	s. 1, 3, 6, 9

REFERENCES AND RELATED DOCUMENTS

The following document relates to these Operating Conditions and are available on the Main Roads website:

Document Name	Location
Guidelines for Transporting Multiple Items on an Oversize or Over-mass Vehicle	https://www.mainroads.wa.gov.au/4a285d/globalassets/heavy-vehicles/permits-orders-schemes/osom/guidelines-for-transporting-multiple-items-on-an-oversize-or-over-mass-vehicle.pdf

DEFINITIONS

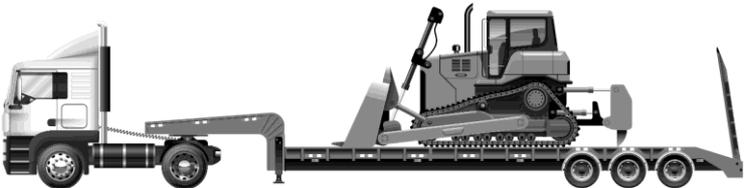
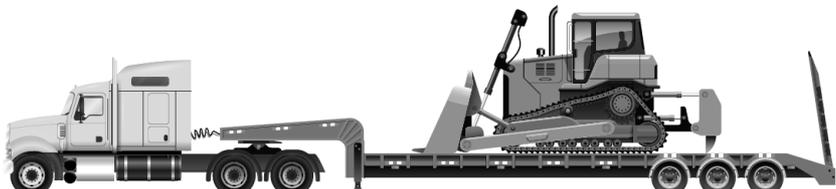
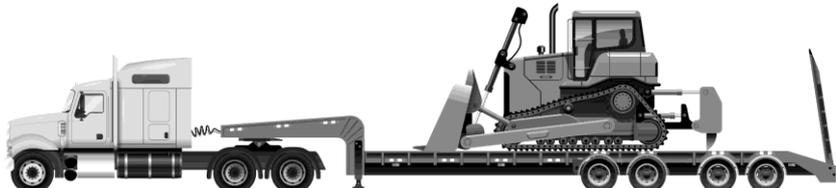
The following are definitions for terms used in these Operating Conditions. Refer to the definitions in the *Road Traffic (Administration) Act 2008* and the *Road Traffic (Vehicles) Act 2012* and any subsidiary legislation to these Acts for the meanings of any terms not defined in this section. If a definition in the relevant Acts or the subsidiary legislation conflicts with a definition in this section, the definition in this section prevails for the purpose of these Operating Conditions.

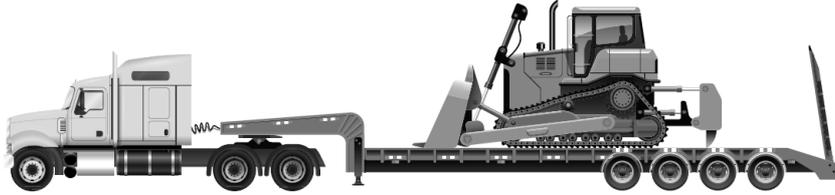
Term	Definition
Large Indivisible Item	An item that: (a) cannot be divided without extreme effort, expense or risk of damage to it; and (b) cannot be carried on any vehicle without exceeding a mass or dimension requirement.
Licensing Authority	A Government Authority responsible for the administration of the vehicle licensing provision of the law of the relevant State, Territory or the Commonwealth.
Main Roads Website	www.mainroads.wa.gov.au – documents referenced within these operating conditions are published on the Oversize Over-mass Permits page.
Permit	A permit issued under Part 4 of the Road Traffic (Vehicles) Act 2012, which these Operating Conditions form part of.
Permit Holder	The Operator to whom the permit is issued.
RAV	An approved vehicle combination to which the “ <i>Class 1 RAV Low Loader Overmass Period Permit</i> ” applies.

1 APPLICATION

1.1 Approved Vehicles

1.1.1 The *Class 1 RAV Low Loader Overmass Period Permit* applies to a RAV described in the following table when carrying a large indivisible item:

Category 1 RAVs	
Category	Description
1.1	<p>Single Drive Prime Mover towing Tri Axle Low Loader</p> 
1.2	<p>Tandem Drive Prime Mover towing Tri Axle Low Loader</p> 
1.3	<p>Tandem Drive Prime Mover towing Single Axle Low Loader Dolly and Tri Axle Low Loader</p> 
1.4	<p>Tandem Drive Prime Mover towing Tandem Axle Low Loader Dolly and Tri Axle Low Loader</p> 
1.5	<p>Tandem Drive Prime Mover towing 4-8-4 Quad Axle Low Loader</p> 
1.6	<p>Tandem Drive Prime Mover towing Single Axle Low Loader Dolly and 4-8-4 Quad Axle Low Loader</p> 

1.7	<p>Tandem Drive Prime Mover towing Tandem Axle Low Loader Dolly and 4-8-4 Quad Axle Low Loader</p> 
Category 2 RAVs	
Category	Description
2.1	<p>Tandem Drive Prime Mover towing Quad Axle Low Loader</p> 
2.2	<p>Tandem Drive Prime Mover towing Single Axle Low Loader Dolly and Quad Axle Low Loader</p> 
2.3	<p>Tandem Drive Prime Mover towing Tandem Axle Low Loader Dolly and Quad Axle Low Loader</p> 
Category 3 RAVs	
Category	Description
3.1	<p>Tandem Drive Prime Mover towing Tri Axle Low Loader Dolly and Quad Axle Low Loader</p> 
3.2	<p>Tandem Drive Prime Mover towing Tri Axle Low Loader Dolly and 4-8-4 Quad Axle Low Loader</p> 

1.1.2 The low loader may be substituted for a semi-trailer or jinker.

1.1.3 All axles, other than the steer axle, must have a minimum of four (4) tyres per axle.

2 COMPULSORY WA HEAVY VEHICLE ACCREDITATION

2.1 Requirement for Accreditation

The *Class 1 RAV Low Loader Overmass Period Permit* does not apply unless and until there is a person who is accredited in relation to the vehicle.

2.2 Effect on the Permit

If the person who is accredited in relation to the vehicle ceases to be accredited, the *Class 1 RAV Low Loader Overmass Period Permit* ceases to have effect on and from the day on which the person ceases to be accredited.

2.3 Non-Application of this Section

The requirement for Accreditation under this section does not apply to a person operating a RAV that is not being used in connection with a business.

3 LICENSING REQUIREMENTS

3.1 Requirement for Appropriate Vehicle Licensing

The *Class 1 RAV Low Loader Overmass Period Permit* does not apply unless the prime mover is licensed under the appropriate heavy vehicle licence class applicable to the number of trailers being towed.

3.2 Complying with Licence Conditions

In addition to these Operating Conditions, the RAV must be driven in accordance with any conditions of the vehicle's licence, as imposed by the relevant licensing authority.

4 COMPULSORY HEAVY VEHICLE INCIDENT REPORTING

All on-road incidents involving a RAV must be reported to Main Roads Heavy Vehicle Services by the permit holder. The Heavy Vehicle Incident Reporting form is available on the Incident Reporting page on the Main Roads website and it must be submitted within 48 hours of the incident occurring.

5 DIMENSION REQUIREMENTS

A RAV exceeding a statutory dimension limit must operate in conjunction with a *Class 1 RAV Oversize Period Permit* or a *Class 1 RAV Oversize Single Trip Permit*.

6 MASS LIMITS

A RAV must not exceed the following mass limits:

Axle Group	Mass Limit
Single Steer Axle with tyres <375mm	6.5 tonnes
Single Steer Axle with tyres ≥375mm	7.1 tonnes
Twin Steer Axle Group with non-load sharing suspension	10 tonnes
Twin Steer Axle Group with load sharing suspension and tyres <375mm	11 tonnes

Twin Steer Axle Group with load sharing suspension and tyres $\geq 375\text{mm}$	12 tonnes
Single Axle (Dolly or Trailer)	9 tonnes
Tandem Drive Axle Group	18.5 tonnes
Tandem Axle Group (Dolly only)	18 tonnes
Tri Axle Group	27 tonnes
Quad Axle Group	36 tonnes

7 AXLE SPACING REQUIREMENTS

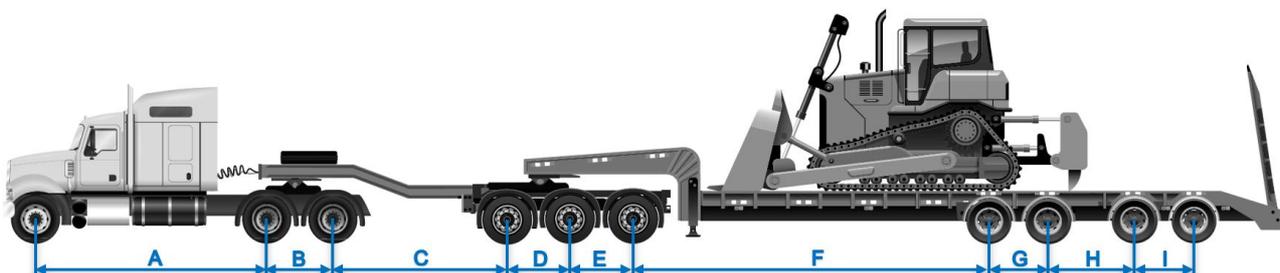
7.1 Axle Spacing Limits

A RAV must comply with the following axle spacings:

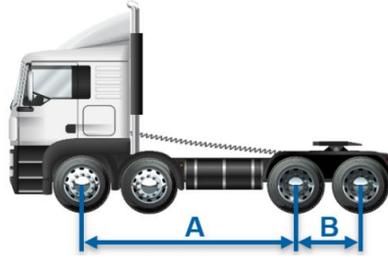
		Axle Spacing (metres)								
		A	B	C	D	E	F	G	H	I
RAV Category	1.1	2.9 – 5.8	N/A	N/A	N/A	N/A	6.0 – 17.8	1.2 – 1.85	1.2 – 1.85	N/A
	1.2	2.9 – 5.8	1.2 – 1.8	N/A	N/A	N/A	6.0 – 17.8	1.2 – 1.85	1.2 – 1.85	N/A
	1.3	2.9 – 5.8	1.2 – 1.8	1.5 – 4.3	N/A	N/A	6.0 – 17.8	1.2 – 1.85	1.2 – 1.85	N/A
	1.4	2.9 – 5.8	1.2 – 1.8	1.8 – 4.3	1.2 – 1.8	N/A	6.0 – 17.8	1.2 – 1.85	1.2 – 1.85	N/A
	1.5	2.9 – 5.8	1.2 – 1.8	N/A	N/A	N/A	6.0 – 17.8	1.2 – 1.81	2.3 – 2.8	1.2 – 1.81
	1.6	2.9 – 5.8	1.2 – 1.8	1.5 – 4.3	N/A	N/A	6.0 – 17.8	1.2 – 1.81	2.3 – 2.8	1.2 – 1.81
	1.7	2.9 – 5.8	1.2 – 1.8	1.8 – 4.3	1.2 – 1.8	N/A	6.0 – 17.8	1.2 – 1.81	2.3 – 2.8	1.2 – 1.81
	2.1	2.9 – 5.8	1.2 – 1.8	N/A	N/A	N/A	6.0 – 17.8	1.2 – 1.81	1.2 – 1.81	1.2 – 1.81
	2.2	2.9 – 5.8	1.2 – 1.8	1.5 – 4.3	N/A	N/A	6.0 – 17.8	1.2 – 1.81	1.2 – 1.81	1.2 – 1.81
	2.3	2.9 – 5.8	1.2 – 1.8	1.8 – 4.3	1.2 – 1.8	N/A	6.0 – 17.8	1.2 – 1.81	1.2 – 1.81	1.2 – 1.81
	3.1	2.9 – 5.8	1.2 – 1.8	1.7 – 4.3	1.1 – 1.8	1.1 – 1.8m	6.0 – 17.8	1.2 – 1.81	1.2 – 1.81	1.2 – 1.81
	3.2	2.9 – 5.8	1.2 – 1.8	1.7 – 4.3	1.1 – 1.8	1.1 – 1.8m	6.0 – 17.8	1.2 – 1.81	2.3 – 2.8	1.2 – 1.81

7.2 Measuring Axle Spacings

7.2.1 Axle spacing measurements must be taken from the centre of adjacent axles. The “Axle Spacing” rows (labelled A to I) in the table under clause 7.1 correspond with the axle spacings shown in the following diagram.



7.2.2 If the vehicle combination consists of a twin steer prime mover, the axle spacing “A” measurement must be taken as per the following diagram.



8 CARRYING MULTIPLE ITEMS

A RAV may carry other items in addition to the *large indivisible item(s)*, provided the other items are carried in accordance with the *Guidelines for Transporting Multiple Items on an Oversize or Over-mass Vehicle*, available on the Oversize Over-mass Permits page on the Main Roads website.

9 ACCESS REQUIREMENTS

9.1 Permitted Roads

A RAV may be driven on any public road within the State of Western Australia, except:

- (a) A Prohibited Road specified in clause 9.3; or
- (b) Over a Restricted Bridge specified in clause 9.4.

9.2 Route Survey

Prior to departure, the operator or driver of the RAV must assess the route of travel to ensure that it is suitable for use and that it can be driven along without contravening these Operating Conditions.

9.3 Prohibited Roads

A RAV must not operate on any of the following roads:

- (a) Kwinana Freeway;
- (b) Graham Farmer Freeway;
- (c) Mitchell Freeway; or
- (d) Horrie Miller Drive, north of Paltridge Road;

9.4 Restricted Bridges

A RAV must not be driven over a bridge that is specified as a restricted bridge for the particular category of RAV in the “*Class 1 RAV Low Loader Overmass Restricted Structures*”, available on the Oversize Overmass (OSOM) page and the RAV Mapping Tool on the Main Roads website.

9.5 Crossing Bridges

9.5.1 Where a RAV is driven over a bridge that is not a restricted bridge, the driver must drive the vehicle in the most centre part of the traffic lane, or where there are multiple lanes, within the centre of those lanes in the direction of travel.

- 9.5.2** If a RAV needs to cross a restricted bridge, an application for a Bridge Crossing Permit can be made by submitting a [Bridge Crossing Permit Application form](#), available on the Main Roads website.

9.6 Minimum Following Distance

A RAV that is travelling over a bridge must always maintain a distance of at least 200 metres from any other heavy vehicle travelling in front of it.

9.7 Parking

- 9.7.1** A RAV must not be parked in an area where parking of the RAV is prohibited.
- 9.7.2** Where parking of a RAV is permitted, the RAV must be parked in accordance with any parking requirements or restrictions applicable to the area.

10 PERMIT STATUS

10.1 Permit Suspension & Revocation

- 10.1.1** Approval to operate a RAV may be suspended when road and/or traffic conditions are considered unsuitable. Main Roads personnel, WA Police or Traffic Escort Wardens, may make verbal notification of such suspension.
- 10.1.2** Approval to operate a RAV may be suspended or revoked if the operator or vehicle combination fails to comply with any of the requirements specified in the permit or these Operating Conditions.

10.2 Permit Amendments & Notifications

- 10.2.1** These Operating Conditions are subject to occasional amendments. If amendments are made that impact transport operators, they will be published as an "HVS Update" on the Main Roads website on the first working day of the month. Operators and drivers are required to ensure that they are operating vehicles on the public road network in accordance with the current Operating Conditions.
- 10.2.2** The RAV Networks and Restricted Bridge lists are subject to periodic amendments, which include additional roads or restricted bridges being included in the lists, roads or restricted bridges being removed from the lists, or amendments being made to a condition relating to a particular road or bridge in the lists. RAV Network and Restricted Bridge list updates will be effective from the Wednesday following the amendment and the RAV Networks and Restricted Bridge list are maintained in the RAV Mapping Tool and as lists on the Main Road website. Operators and drivers are required to ensure they are operating vehicles on the public road network in accordance with the current RAV Networks and Restricted Bridge lists.
- 10.2.3** Heavy Vehicle Travel Impacts are published when road conditions may impede the movement of Restricted Access Vehicles. Operators and drivers are required to check the Heavy Vehicle Travel Impacts on the Main Roads website immediately prior to operating the vehicle on the public road network to ensure that there is no relevant information that will impede their vehicle operating on the WA road network.
- 10.2.4** All conditions stipulated in HVS Updates or Heavy Vehicle Travel Impacts must be adhered to.

10.2.5 Where a condition stipulates that contact must be made with a site supervisor or any other person prior to travel, this must be done via email or text message and evidence provided to Main Roads' personnel upon request.