

Restricted Access Vehicle:

Rubber Tracked Agricultural Machine Operating Conditions



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Amendments

Revision Number	Revision Date	Description of Key Changes	Clause / Page No.
1	20 August 2019	Amended section 9 to align with revised pilot Agricultural Pilot requirements and added Appendix 2 & 3.	9 / 10
2	22 August 2019	Removed sub-clause 9.1.3 and Appendix 3.	9 / 10
3	16 September 2019	Added reference for Traffic Management requirements.	Appendix 2
4	5 November 2019	Amended curfews in Section 10, amended Section 9 to allow Agricultural Pilot to tow & general formatting.	10 / 12 9 /12 All
5	14 January 2020	Added definition for Licensed Pilot & Order.	P. 4
6	3 August 2020	Changed name from RAV Networks to Tandem Drive Networks. Changed document name from Rubber Tracked Agricultural Machine Restricted Bridges to Agricultural Machines Restricted Structures.	P. 5, P. 9 and P. 14
7	8 September 2020	Updated Compulsory Heavy Vehicle Incident Reporting.	3/6

References and related Documents

Document Number	Description	
	Agricultural Machines Restricted Bridges (see clause 8.4)	
D15#453366 Oversize Vehicle & Pilot Vehicle General Requirements		
D18#793921 Agricultural Pilot Operational Requirements		
D13#317598 Contact Details for Other Agency Approvals		

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Definitions

The following are definitions for terms used in these Operating Conditions. Refer to the definitions in the Road Traffic (Vehicles) Act 2012 and any subsidiary legislation to this Act for the meanings of any terms not defined in this section.

Term	Definition		
Agricultural Pilot	A person authorised to accompany an Agricultural Combination under the <i>Heavy Vehicle Agricultural Pilot Authorisation</i> , who is not required to hold any formal qualifications or a heavy vehicle pilot licence.		
	 a) the distance from the centre of any single axle to the centre of any other single axle; 		
Axle Spacing	 b) the distance from the centre of any single axle to the centre of the furthest axle in any axle group; or 		
	 c) the greatest distance between the centres of axles in any axle groups. 		
Curfew	A period when the movement of a Tracked Agricultural Machine is not permitted.		
Day	The hours between sunrise and sunset. Sunrise and sunset times can be obtained from the Perth Observatory website at www.perthobservatory.com.au/ or by contacting the Perth Observatory on 08 9293 8255, or from the Geoscience Australia website at http://www.ga.gov.au/geodesy/astro/sunrise.jsp		
Friday Long Weekend	A weekend extended to three days where the preceding Friday is the granted Public Holiday.		
Front Projection	e distance measured from the front of the lens of the vehicle's adlights to the forward most part of the vehicle.		
Licensed Pilot	A qualified heavy vehicle pilot who is a holder of a heavy vehicle pilot licence issued under Part 13A of the Road Traffic (Vehicles) Regulations 2014.		
Main Roads website	www.mainroads.wa.gov.au		
Mandurah Curfew Map The area depicted within Appendix 3.			
Monday Long Weekend A weekend extended to three days where the following Monda granted Public Holiday.			
Night	The hours between sunset and sunrise. Sunset and sunrise times can be obtained from the Perth Observatory website at www.perthobservatory.com.au/ or by contacting the Perth Observatory on 08 9293 8255, or from the Geoscience Australia website at http://www.ga.gov.au/geodesy/astro/sunrise.jsp		
Order	An Order issued under the Road Traffic (Vehicles) Act 2012.		

Perth Metropolitan Area	As depicted in Appendix 1, means the area within: (a) the northern boundaries of the Local Government districts of Wanneroo, Swan and Mundaring; (b) the eastern boundaries of the Local Government districts of Wanneroo, Swan, Mundaring, Kalamunda, Armadale and Serpentine-Jarrahdale; (c) the southern boundaries of the Local Government districts of Serpentine-Jarrahdale and Rockingham; and (d) the Indian Ocean coastline.	
Posted Speed Limit The speed limit indicated by the numerals on the speed limit 50 kilometres per hour in the absence of a speed limit sign up area.		
Projection The distance an object extended beyond the normal confines or b of the vehicle to the front, side or rear.		
RAV	Restricted Access Vehicle (RAV) and includes a Rubber Tracked Agricultural Machine.	
Tandem Drive Network 2	The Tandem Drive Network 2 approved roads are published in the form of Road Tables or are available on the RAV Mapping Tool on the Main Roads website.	
Special Permit	A Temporary Permit Exceeding 48 hours (for licencing purposes) for over-mass and over-dimensional vehicles, available from the Department of Transport.	
Tracked Agricultural Machine	A machine with its own motive power, built to perform agricultural tasks and instead of being fitted with tyres has rubber tracks fitted to at least one axle group.	
Vehicle Regulations	The Road Traffic (Vehicles) Regulations 2014.	

1 APPLICATION

These Operating Conditions apply to a *Class 1 Restricted Access Vehicle* that is a Rubber Tracked Agricultural Machine and is operating under the *Agricultural Machine Order 2018* (The Order), available on the Agricultural Vehicles page of the Main Roads website.

The Order applies only to a Rubber Tracked Agricultural Machine that -

- (a) is fitted with rubber tracks to at least one axle group;
- (b) has only a single axle to the front and a single axle to the rear of the vehicle;
- (c) complies with the minimum axle spacing requirements as per Section 4;
- (d) complies with the mass limit requirements as per Section 5 of these Operating Conditions;
- (e) complies with the dimension limit requirements as per Section 6 of these Operating Conditions;
- (f) is licensed, or is covered by a valid *Special Permit*, or is being moved by a dealer using Trade Plates; and
- (g) is operating within Western Australia;

2 COMPLYING WITH LICENSING CONDITIONS

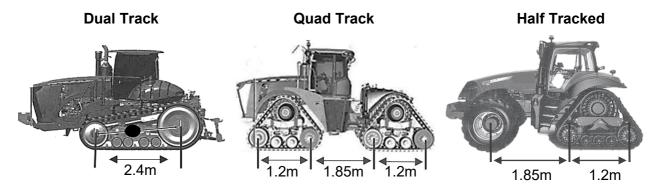
Drivers and operators are reminded that in addition to these Operating Conditions, the tracked Agricultural Machine must be driven in accordance with any conditions of the vehicle's licence, as imposed by the relevant *Licensing Authority*.

3 COMPULSORY HEAVY VEHICLE INCIDENT REPORTING

All on-road incidents involving a Tracked Agricultural Machine 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.

4 AXLE SPACINGS

The axle spacing's of a Tracked Agricultural Machine must meet the minimum spacing's as depicted below:



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5 MASS REQUIREMENTS

5.1 Track Widths

The rubber tracks on a Tracked Agricultural Machine must have a width of at least 406mm.

5.2 Mass Limits – Dual and Quad Track Agricultural Machines

The tracks on Dual or Quad Track Agricultural Machine must not exceed the mass limits specified in the following table:

Dual Track Machine	14.0 tonnes per track
Quad Track Machine	7.0 tonnes per track

5.3 Mass Limits - Half Tracked Agricultural Machines

5.3.1 The tracks on Half Track Agricultural Machine must not exceed the mass limit specified in the following table:

Half Track Machine	7.0 tonnes per track
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5.3.2 An axle fitted with tyres on a Half Tracked Agricultural Machine must not exceed a mass limit specified in the following table:

Width of narrowest tyre on axle (mm)		Mass I	imit (t)
at least	less than	axle with 2 tyres	axle with 4 tyres
190	228	4.5	9.0
228	254	5.0	9.5
254	279	6.0	10.0
279	305	6.5	11.0
305	330	7.0	12.0
330	356	7.5	13.0
356	381	8.0	14.0
381	-	9.0	14.0

6 DIMENSION LIMITS

- **6.1** A Tracked Agricultural Machine must not exceed 6.0 metres in height.
- **6.2** A Tracked Agricultural Machine must not exceed 12.5 metres in length.
- **6.3** A Tracked Agricultural Machine must not exceed 8.5 metres in width.
- **6.4** A Tracked Agricultural Machine must not exceed 4.5 metres rear overhang.

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- 6.5 Despite sub-clause 6.4, a Tracked Agricultural Machine that is an auger or conveyor may have a rear overhang not exceeding 5.5 metres.
- **6.6** A Tracked Agricultural Machine must be reduced to the smallest possible dimension, i.e. any boom or other equipment fully retracted.

Note: For the purpose of this clause, any flags, lights or mirrors on the Tracked Agricultural Machine shall be disregarded when measuring the dimensions.

7 WARNING DEVICES

7.1 Lights

- **7.1.1** A Tracked Agricultural Machine in excess of 2.5 metres in width must display at least one amber warning light, complying with the requirements set out in the *Oversize Vehicle & Pilot Vehicle General Requirements*, available on the Pilots page of the Main Roads website.
- **7.1.2** A Tracked Agricultural Machine must not display an amber flashing warning light if not required under this clause.

7.2 Warning Signs and Flags

- **7.2.1** A Tracked Agricultural Machine in excess of 2.5 metres in width must clearly display "Oversize" warning signs on the front and rear of the vehicle.
- **7.2.2** An "Oversize" warning sign must comply with the requirements set out in the *Oversize Vehicle & Pilot Vehicle General Requirements*, available on the Pilots page of the Main Roads website.
- **7.2.3** A Tracked Agricultural Machine must not display an "Oversize" warning sign if not required under this clause.
- **7.2.4** A Tracked Agricultural Machine must display a warning flag on the extremity of:
 - (a) a side projection that extends beyond the body or wheels, whichever is wider, by more than 150mm; and
 - (b) a front or rear projection greater than 1.2 metres.
- **7.2.5** A warning flag must comply with the requirements set out in the *Oversize Vehicle & Pilot Vehicle General Requirements* on the Pilots page of the Main Roads website.
- **7.2.6** A Tracked Agricultural Machine must display striping made from a *retro-reflective material*, coloured red and white, or red and yellow, along both sides of any rigid projection that extends more than 1.2 metres in front of the vehicle's body.
- **7.2.7** Any part of an axle on a Tracked Agricultural Machine that projects more than 150 mm from the outside edge of the tracks must be painted fluorescent yellow or have yellow fluorescent or other high-visibility material wrapped around it.

7.3 Additional Lighting Requirements at Night

A Tracked Agricultural Machine travelling at night must be sufficiently illuminated to ensure it is clearly visible to approaching traffic.

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8 ACCESS CONDITIONS

8.1 Approved Roads

A Tracked Agricultural Machine may travel on any road within the State of Western Australia, except on a road within:

- (a) The Perth Metropolitan Area;
- (b) The Shire of Augusta-Margaret River;
- (c) The Shire of Manjimup; and
- (d) The Shire of Nannup.

8.2 Route Assessment

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

8.3 Damage

A Tracked Agricultural Machine must not be driven along a road it if is likely to cause:

- (a) Damage to a property or another vehicle;
- (b) Damage to telecommunication, electrical, rail, gas, water or sewage services; or
- (c) Damage to a road (including a bridge), structure, roadside furniture, rail crossing or tree.

8.4 Restricted Bridges

A Tracked Agricultural Machine must not be driven on a bridge listed in the *Agricultural Machines Restricted Structures*, available and maintained on the Agricultural Vehicles page and RAV Mapping Tool on the Main Roads website.

Note: It is an offence under the Road Traffic Code 2000 for a vehicle to cross a bridge if the vehicle has a mass limit in excess of the posted mass limit for the bridge.

8.5 Speed Restrictions

A Tracked Agricultural Machine exceeding 3.5 metres in width must not be driven at a speed that exceeds the lesser of:

- (a) The maximum vehicle speed defined as part of the vehicle licencing conditions; or
- (b) 80 km/h; or
- (c) The posted speed limit.

Note: The above are the maximum allowable speeds. Tracked Agricultural Machines must be driven at a safe speed, taking into consideration the road conditions and the machine's performance capabilities.

8.6 Other Agency Height Approvals

8.6.1 A Tracked Agricultural Machine exceeding 4.3 metres in height must not be driven on a road without current written approval from all the relevant Cable Operators, unless the height is no greater than 4.6 metres and the vehicle is being driven on a road that is listed in *Tandem Drive Network 2*.

8.6.2 Any written approval obtained in accordance with this clause must be carried and produced to a member of the WA Police or Main Roads upon request.

Note: Contact Details for Other Agency Approvals is available on the Oversize Over-mass page of the Main Roads website.

8.7 Minimum Following Distance

The driver of a Tracked Agricultural Machine must maintain a distance of at least 200 metres from any other RAV travelling in front of it, unless:

- (a) It is overtaking the vehicle in front or the vehicle in front is stopping;
- (b) There is a separate lane available for the use of overtaking traffic;
- (c) It is in an urban area and it is not reasonably practicable to maintain such a distance;
- (d) It is stopped, or coming to a stop for the purpose of complying with a provision of any law or avoiding conflict with other traffic; or
- (e) The Tracked Agricultural Machines are travelling in a convoy subject to sub-clause 9.3.

9 PILOT REQUIREMENTS

9.1 Number of Pilot Vehicles

- **9.1.1** A Tracked Agricultural Machine must be accompanied by the minimum number of pilot vehicles specified in *Appendix 2* when travelling outside of the Perth Metropolitan Area.
- **9.1.2** A Tracked Agricultural Machine exceeding 3.5 metres in width may be accompanied by a pilot vehicle or additional pilot vehicles where the operator considers it necessary to safely facilitate the movement of the Tracked Agricultural Machine.
- **9.1.3** A Tracked Agricultural Machine in excess of 3.1 metres, up to 3.2 metres, in width must not travel during *night hours* in an urban area without being accompanied by a minimum of one pilot vehicle. (Refer to Night Curfew under sub-clause 10.1)

9.2 General Pilot Requirements

- **9.2.1** The driver of a pilot vehicle is not required to hold a Heavy Vehicle Pilot Licence, provided they are facilitating the movement of the Tracked Agricultural Machine in accordance with the requirements under *Appendix 2*.
- **9.2.2** An Agricultural Pilot vehicle must be operated in accordance with the *Agricultural Pilot Operational Requirements*, available on the Pilots page of the Main Roads website.
- **9.2.3** Where a Licensed Pilot is specified in *Appendix 2*, it may be substituted for an Agricultural Pilot, provided there is a holder of a Heavy Vehicle Pilot License in the lead Agricultural Machine, overseeing the pilots.
- **9.2.4** Where an Agricultural Pilot is specified in *Appendix 2*, the pilot vehicle may tow one (1) agricultural implement or trailer, provided:
 - (a) It is not wider than 2.5 metres;
 - (b) It does not interfere with the driver's rearward field of vision; and
 - (c) It does not obstruct the pilot vehicle's warning light and sign, unless there is an additional warning light and sign mounted to the agricultural implement or trailer.

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9.3 Convoy Travel with Pilot Vehicles

- **9.3.1** A maximum of three Tracked Agricultural Machines may travel in convoy with one another when accompanied by pilot vehicles.
- **9.3.2** When Tracked Agricultural Machines are travelling in convoy, the pilot vehicle requirements and any other conditions that are applicable to the largest machine, apply to the convoy.
- **9.3.3** The distance between Tracked Agricultural Machines travelling in convoy must not exceed 100 metres.
- **9.3.4** Despite paragraph 9.3.3, a Tracked Agricultural Machine that is travelling over a bridge must always maintain a distance of at least 200 metres from any other RAV travelling in front of it.

10 CURFEWS

10.1 Night Curfews

A Tracked Agricultural Machine in excess of 3.2 metres is not permitted to travel at *night*, unless:

- (a) Travelling on an Agricultural Pilot Green Zone road; or
- (b) Travelling between Green Zone roads on an Orange Zone road within 1 km; and
- (c) Complying with clause 7.3 Additional Lighting Requirements at night.

Note: Agricultural Pilot Zones are available on the RAV Mapping Tool on the Main Roads website.

10.2 Christmas and New Year Curfews

10.2.1 An Tracked Agricultural Machine exceeding 5.5 metres in width and/or 40 metres in length must not travel on any of the following prohibited roads during the following curfew periods:

Prohibited Roads:

(a) All roads in the Metropolitan Area

(c) Brand Highway

(e) Bussell Highway

(g) Indian Ocean Drive

(i) North West Coastal Highway (Geraldton to Kalbarri Turn-off)

(k) South Coast Highway

(b) Albany Highway

(d) Brookton Highway

(f) Forrest Highway

(h) Muir Highway

(j) Northampton Kalbarri Road

(I) South Western Highway

Curfew Periods:

- (a) From sunrise on the Friday until sunset on the Sunday prior to Christmas Day; and
- (b) From sunrise on 24th December until sunset on 3rd January.
- **10.2.2** Despite sub-clause 10.2.1, a Tracked Agricultural Machine may travel on the prohibited roads, except roads within the Metropolitan Area, for a maximum distance of 1.0 kilometre, for the purpose of traveling between non-prohibited roads.

10.3 Easter Curfews

10.3.1 A Tracked Agricultural Machine exceeding 5.5 metres in width and/or 40 metres in length must not travel on any of the following prohibited roads during the following curfew period:

Prohibited Roads:

(a) All roads in the Metropolitan Area

(c) Brand Highway

(e) Bussell Highway

(g) Indian Ocean Drive

(i) North West Coastal Highway (Geraldton to Kalbarri Turn-off)

(k) South Coast Highway

(b) Albany Highway

(d) Brookton Highway

(f) Forrest Highway

(h) Muir Highway

(j) Northampton Kalbarri Road

(I) South Western Highway

Curfew Period:

From sunrise on the Thursday before Good Friday until sunset on the Tuesday after Easter Monday.

10.3.2 Despite sub-clause 10.3.1, a Tracked Agricultural Machine may travel on the prohibited roads, except roads within the Metropolitan Area, for a maximum distance of 1.0 kilometre, for the purpose of traveling between non-prohibited roads.

10.4 Long Weekends

A Tracked Agricultural Machine exceeding 2.7 metres in width and/or 30 metres in length must not travel on Forrest Highway and Lakelands Lake Clifton Road (includes Mandurah and Dawesville Bypasses), between the intersections of Pinjarra Road and Peppermint Grove Road, (Refer to the *Appendix 3 – Mandurah Curfew Map*), during the following periods:

- (a) Sunset on the Thursday prior to a Monday long weekend until sunrise on the Tuesday after a Monday long weekend; and
- (b) Sunset on the Wednesday prior to a Friday Long Weekend until sunrise on the Monday after a Friday Long Weekend.

Note: If the public holiday falls on a Tuesday, Wednesday or Thursday no curfew applies.

10.5 Poor Visibility

- **10.5.1** The driver of a Tracked Agricultural Machine must not begin to travel if, due to circumstances such as fog, heavy rain, smoke, dust or insect plague:
 - (a) Visibility is less than 250 metres during the day; or
 - (b) The headlights of a vehicle approaching within 250 metres could not be seen at *night*.
- **10.5.2** Where a Tracked Agricultural Machine is already travelling when visibility is reduced to the level described above, the driver must drive into the nearest safe parking area, and wait until visibility improves beyond that level before continuing to travel.

11 TOWING

A Tracked Agricultural Machine must not tow a trailer or any other vehicle, unless approved under a Main Roads permit or operating under the *Agricultural Combinations Order*.

12 CARRYING A LOAD

A Tracked Agricultural Machine that exceeds a statutory mass limit must not carry a load, unless:

- (a) The load is equipment and/or substances necessary for the operation of the vehicle; or
- (b) The load is necessary to enable the vehicle to perform its agricultural function.

13 ORDER SUSPENSION

Approval to operate a Tracked Agricultural Machine under the Order to which these Operating Conditions apply, 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.

14 AMENDMENTS & NOTIFICATIONS

- 14.1 These Operating Conditions are subject to occasional amendment. If amendments are made that impact transport operators, they will be published as an "HVS update" on the HVS Update page of 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 Rubber Tracked Agricultural Machine Operating Conditions.
- **14.2** The document *Agricultural Machines Restricted Structures*, is subject to periodic amendments which include additional bridges being added to, or removed from the list of restricted bridges.

Any amendments to the *Agricultural Machines Restricted Structures* document will be made and published before close of business on Wednesday and take effect from midnight.

Operators and drivers are required to ensure they are operating vehicles on the public road network in accordance with the most current and up to date *Agricultural Machines Restricted Structures* document, available on the Agricultural Vehicles page of the Main Roads website.

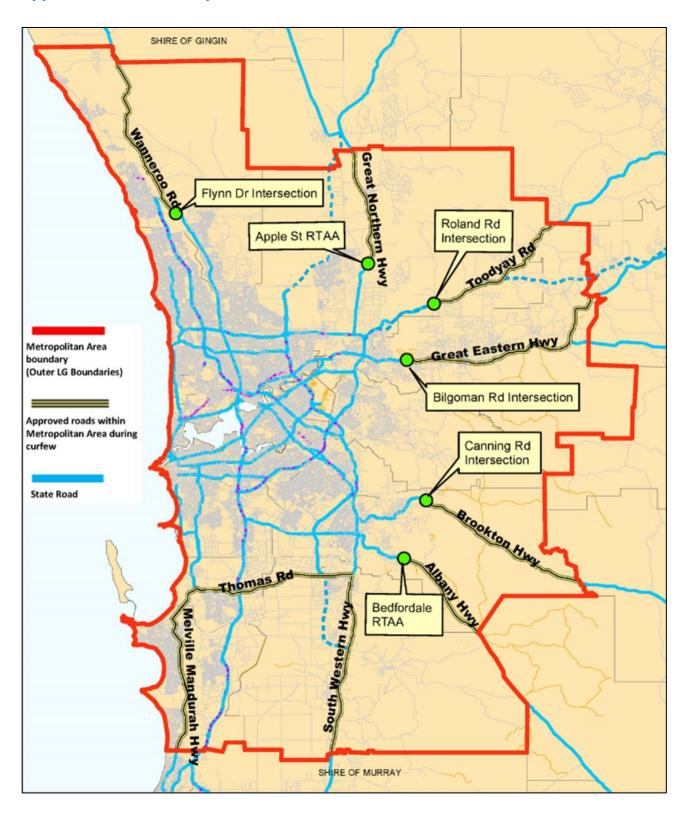
- 14.3 Heavy Vehicle Travel Impacts are published when road conditions may impede the movement of Restricted Access Vehicles. Operators and drivers are required to check the Heavy Vehicle Travel Impacts on the Main Roads website prior to operating the vehicle on the public road network to ensure that there is no relevant information that will impede their vehicle operating on the WA road network.
- **14.4** All conditions stipulated in HVS Updates or Heavy Vehicle Travel Impacts must be adhered to.

15 APPENDICES

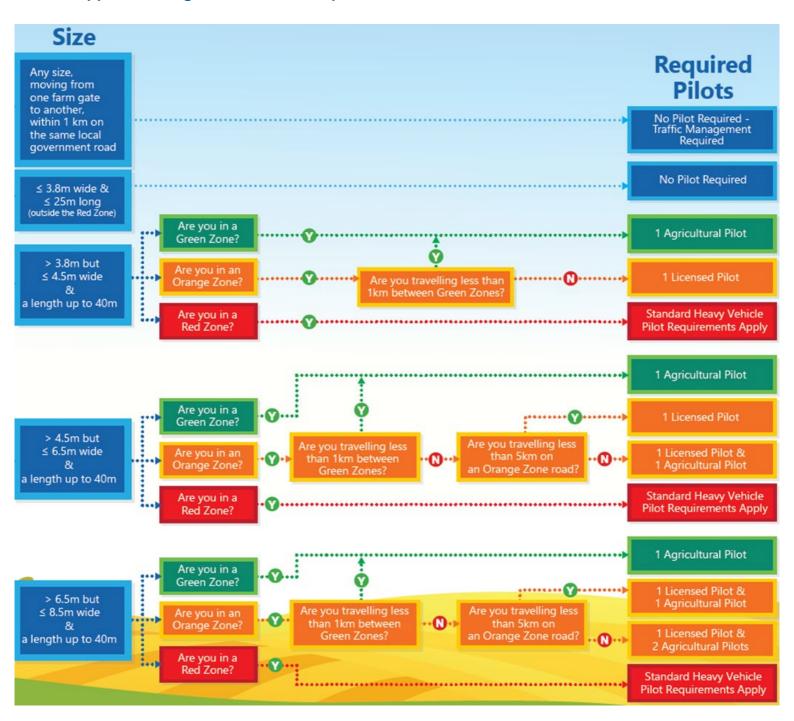
Appendix	Title
Appendix 1	Perth Metropolitan Area
Appendix 2	Agricultural Pilot Requirements
Appendix 3	Mandurah Curfew Map

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Appendix 1: Perth Metropolitan Area



Appendix 2: Agricultural Pilot Requirements



Green Zone – All roads within the areas bounded by Regional Distributor and State roads.

Orange Zone – All Regional Distributor and State roads, outside the Metropolitan Area.

Red Zone - All roads within the Metropolitan Area.

NOTE: Agricultural Pilot Zones are available on the RAV Mapping Tool on the Main Roads website.

Traffic management must be in accordance with *D07#103477 - Traffic Management Requirements - Towed Agricultural Implements Crossings*, available on the Main Roads website.

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Appendix 3: Mandurah Curfew Map

