# TR - Transport

An efficient and effective transport network is critical to the functioning and economic support of the Wairarapa, to convey people, goods, and services in a safe and effective manner by any mode of transport. The Wairarapa's land transport network comprises state highways, roads, pedestrian and cycle networks, public transport facilities, and the rail network.

The District Plan seeks to ensure that activities generate a type or level of traffic that is compatible with the roads they are located on. It also seeks to ensure that on-site transport facilities such as vehicle crossings, parking, manoeuvring, loading, and cycle facilities are appropriately located, designed, and linked to the transport network to ensure the safety and efficiency of the transport network and people's health and wellbeing.

Activities that generate high volumes of traffic may have significant adverse effects on the transport network and adversely affect the amenity of adjacent land use activities. As such, high traffic generating activities warrant case-by-case management and assessment. The cumulative effects of less intensive activities also need to be carefully managed.

The rail corridor is also a key part of the Wairarapa's transport network and is anticipated to increase in importance over the life of the plan, and therefore its efficient, effective, and safe operation must be protected from potential adverse effects of activities, such as road crossings.

Hood Aerodrome is a strategic component of the Wairarapa aviation industry, and the Transport chapter includes controls to manage the height of structures and trees within the *Obstacle Limitation Surface* for safety within flight paths.

The Transport Chapter contains provisions that deal with on-site transport facilities and access, the operation, maintenance and repair of the transport network, and the effects of high traffic generating activities. Provisions addressing noise related reverse sensitivity effects on the State Highway and Hood Aerodrome are in the Noise Chapter.

The zoning applying to roads and railway corridor is the same zone as the land nearest to each point in the road and railway corridor. Where the zone is different either side of the road or railway corridor, then the boundary between the zones is the centreline of the road or railway corridor.

Unless otherwise specified in the District Plan, the Transport rules apply to all activities. Activities are subject to compliance with all relevant Transport rules. Where activities meet the specific standards and thresholds set out in this chapter, the transportation component of the activity will be permitted. Activities that do not meet the standards or which generate higher amounts of traffic than permitted by the provisions in this chapter will require resource consent.

There may be a number of objectives, policies and rules that apply to an activity, building, structure, or site. Resource consent may therefore be required under rules in this chapter as well as other chapters. Unless specifically stated in a rule, resource consent is required under each relevant rule. The steps to determine the status of an activity are set out in the General Approach section in the How the Plan Works chapter.

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### **Objectives**

### TR-O1 Well-connected, integrated, safe, and accessible transport network

The transport network is a well-connected, integrated, safe, and accessible system that:

- a. meets and is responsive to current and future needs;
- b. is efficient and effective in transporting people, goods, and services by all transport modes;
- c. supports healthy and liveable communities with a variety of transport options that are accessible:
- d. integrates with subdivision, land use, and development;
- e. supports transport mode options to increase the use and accessibility of public transport, walking, and cycling and reduces dependency on private motor vehicles where that is, or can be made, practicable and safe; and
- f. enables emergency service vehicles to respond to emergency call outs effectively and efficiently.

# TR-O2 Adverse effects of the transport network

Adverse effects on the environment from the construction, operation, maintenance, and development of the transport network are avoided, remedied, or mitigated.

# TR-O3 Effects of activities on the transport network

The safe, effective, and efficient operation of the transport network is not compromised or constrained by incompatible land use, subdivision, and development, including High Traffic Generating Activities.

#### **Policies**

General	
TR-P1	Multi-modal transport system

Support a multi-modal transport system that promotes alternative means of safe, efficient and effective transport, including cycling and walking and public transport facilities to enable people of all ages to move within the district and reduce the effects of vehicle-based transport systems and greenhouse gas emissions by:

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- a. maximising safe and accessible opportunities for walking, cycling, and public transport use;
- b. Promoting multi-modal options to meet with any best practice guidance current at the time of consenting; and

requiring cycle parking as appropriate for the proposed use and end of trip cycle facilities where cycle parking is required to be provided.

### TR-P2 Good design outcomes

The transport network is maintained or improved in a way that:

- a. promotes integrated planning and supports strategic directions;
- roads and vehicle crossings meet minimum design standards to allow for safe,
   effective, and efficient traffic movement and can safely accommodate the intended number of users and the intended functioning of the road or crossing;
- c. is consistent with the relevant Design Guide in Appendices APP3, APP4, or APP5 and Council's Engineering Development Standard 2023 and promotes good urban design, including connectivity, decreasing travel distances, and linking to existing transport networks;
- d. considers and responds to safety and accessibility, including Crime Prevention Through Environmental Design (CPTED) principles.
- e. Promotes the use of public transport, walking and cycling through the provision of a safe, accessible and connected multimodal network.

# TR-P3 Role of transport corridors

Identify and manage a classification of roads and other transport corridors within the Wairarapa based on the One Network Framework to ensure that the function of each corridor is recognised and protected when managing subdivision and land use.

# TR-P4 On-site facilities

Require on-site facilities including loading, parking, manoeuvring and vehicle, pedestrian, and cycle access to meet minimum standards and facilitate multi-modal transport use, or where these are not met, ensure they are appropriate for the demands of the activities and development carried out on the site and avoids, remedies, or mitigates any adverse effects on the safe, effective, and efficient functioning of the transport network.

# TR-P5 Transport network connections

Require development (new or changes to existing lawfully established activities) to meet minimum standards when connecting to road, cycling, pedestrian, and public transport corridors, or where these are not met, ensure development avoids, remedies, or mitigates

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any adverse effects on the safe, effective, and efficient functioning of the transport network and provides a safe, suitable, legal, and practicable access to and from a transport corridor.

### TR-P6 Managing effects of the transport network

Provide for the development and safe operation of the transport network, including the state highway network and rail network, while avoiding, remedying, or mitigating the adverse effects of the development and use of roads, including state highways, on adjacent activities.

### TR-P7 High Traffic Generating Activities

Require new, and changes to existing high traffic generating activities which propose to access and utilise the districts' roads to be assessed in an Integrated Transport Assessment prepared by a suitably qualified traffic specialist that demonstrates how any adverse effects on the road transport network will be avoided, remedied or mitigated, and assesses:

- a. the road's capacity and the likely effect of the proposed use on the road and its users;
- the effect on ongoing maintenance of the road and the need for road maintenance agreements;
- c. whether opportunities for alternative access and/or routes exist;
- d. appropriate traffic management and travel demand management mechanisms;
- e. whether it is appropriate to stage the activity and/or undertake improvements to the transport network; and cumulative effects.

#### Rail

# TR-P8 Rail corridor safety

Ensure the safe and efficient operation of the rail network by providing for safe visibility and appropriate infrastructure at road/rail level crossings. This includes protecting sight lines and managing vehicle access adjacent to level crossings.

#### **Hood Aerodrome**

#### TR-P9 Protection of Hood Aerodrome

Protect the operation of Hood Aerodrome and other key air transport facilities from the potential adverse effects created by the proximity of nearby sensitive land use activities.

#### TR-P10 Effects of Hood Aerodrome

Provide for the continued functioning and future development of Hood Aerodrome and other key air transport facilities while managing the adverse effects caused by the operation of Hood Aerodrome and other key air transport facilities on adjacent activities.

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Wairarapa Five Towns Trail Network		
TR-P11	Wairarapa Five Towns Trail Network	
Enable and encourage the establishment and operation of the Wairarapa Five Towns Trail Network.		

# Rules

Т	R-R1	All land use activities	
	All zones	Activity status: Permitted	
		Where:	
		a. Compliance is achieved with TR-S1 - TR-S28;	
	All zones	2. Activity status: Restricted discretionary	
		Where:	
		a. Compliance is not achieved with TR-S1 - TR-S28;	
		Matters of discretion:	
		The effect of non-compliance with the relevant standard and the	
		matters of discretion of any standard that is not met.	
2. The construction, use, location, design, and number			
	of vehicle crossings or intersections.  3. Sightlines.		
		The safety and suitability of the access for the activity.	
		5. The ability to obtain alternative access.	
		6. The safe, efficient, and effective operation of the transport	
		network, including State Highways.	

TR-R2		Construction, alteration, maintenance, and repair of accessways, vehicle crossings, parking, and loading areas	
	All zones	Activity status: Permitted	
		Where:	
		b. Compliance is achieved with TR-S1 - TR-S28;	
		<ul> <li>There is no new vehicle crossing onto a State Highway; and</li> </ul>	
		<ul><li>ii. All sites and activities have legal and physical access to and from a road.</li></ul>	
	All zones	2. Activity status: Restricted discretionary	

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# Where: c. Compliance is not achieved with TR-R2(1). Matters of discretion: 1. The effect of non-compliance with the relevant standard and the matters of discretion of any standard that is not met. 2. The construction, use, location, design, and number of vehicle crossings or intersections. 3. Sightlines. 4. The safety and suitability of the access for the activity. 5. The ability to obtain alternative access. 6. The safe, efficient, and effective operation of the transport network, including State Highways. Note 1: Any access proposed onto a section of a State Highway which has been declared a Limited Access Road will also require a Licenced Crossing Place approval from Waka Kotahi NZ Transport Agency under the Government Roading Powers Act 1989. Note 2: If a resource consent application is made under this rule for a new vehicle crossing onto a State Highway, Waka Kotahi NZ Transport Agency will be considered an affected person in accordance with Section 95E of the RMA and notified of the application, where written approval is not provided.

Т	R-R3	Construction, alteration, maintenance, and repair of the transport network	
	All zones	Activity status: Permitted	
		Where:	
		a. Compliance is achieved with TR-S1 - TR-S28; and	
		b. There is no new <i>road</i> intersection with a State Highway.	
	All zones	2. Activity status: Restricted discretionary	
		Where:	
		a. Compliance is not achieved with TR-R3(1).	
		Matters of discretion:	
		The effect of non-compliance with the relevant standard and the	
		matters of discretion of any standard that is not met.	
		2. The construction, use, location, design, and number of	
		intersections.	
		3. Sightlines.	

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4. The safe, efficient, and effective operation of the transport network, including State Highways.

Note: If a resource consent application is made under this rule for a new intersection onto a State Highway, Waka Kotahi NZ Transport Agency will be considered an affected person in accordance with Section 95E of the RMA and notified of the application, where written approval is not provided.

1	TR-R4 Construction of roads, vehicle crossings, and accessways in clos proximity to a railway		
	All zones	Activity status: Restricted discretionary     Where:	
		<ul> <li>a. It is proposed to create a road, vehicle crossing, or an accessway over or under the railway; or</li> </ul>	
		<ul> <li>b. It is proposed to create a vehicle crossing or an accessway or intersection within 30m of a road/rail level crossing.</li> </ul>	
		Matters of discretion:	
		The use, location, design, and number of <i>vehicle crossings</i> or accessways.	
		2. The ability to obtain alternative access.	
		3. The safe, efficient, and effective operation of the <i>road</i> and railway.	
		Note: If a resource consent application is made under this rule, KiwiRail will be considered an affected person in accordance with Section 95E of the RMA and notified of the application, where written approval is not provided.	

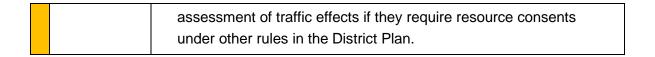
TR-R5		Sight lines at railway level crossings	
	All zones	All zones 1. Activity status: Permitted	
		Where:	
		Compliance is achieved with TR-S30	
	All zones	Activity status: Restricted discretionary	
		Where:	
		a. Compliance is not achieved with TR-R5(1).	
		Matters of discretion:	

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1. the potential for adverse effects on the safely and efficiency of the rail
network.
2. applications under this rule must provide, in addition to the standard
information requirements, evidence of engagement with KiwiRail.

TR-R6		High Traffic Generating Activities
	All zones	Activity status: Restricted discretionary     Where:
		a. Any new activity, or change to an existing activity (excluding existing service stations), that generates an average daily traffic volume or peak hour traffic volume that exceeds the thresholds in Standard TR-S29 Table TR-16.
		<ul> <li>b. Any change to an existing service station involves one or more additional refuelling spaces.</li> <li>For all activities where TR-R5(1)(a) apply:</li> </ul>
		a. An Integrated Transport Assessment shall be prepared by an independent, suitably qualified, and experienced transport engineer; and
		<ul> <li>b. The type of Integrated Transport Assessment (either Full or Basic) shall be as determined by the status of the application under all other applicable rules as per Standard TR-S29 Table TR-18.</li> </ul>
		Matters of discretion:
		<ol> <li>The safe, efficient, and effective operation of the transport network.</li> <li>Site access.</li> </ol>
		Accessibility for pedestrians, cycle facilities, and public transport.
		<ul><li>4. Strategic frameworks.</li><li>5. Mitigation of effects through Travel Demand Management.</li><li>Note:</li></ul>
		Guidance for the content of a Full or Basic Integrated Transport     Assessment is provided in Appendix TR-1. Consultation with     Council is recommended to confirm the scope of the Integrated     Transport Assessment.
		Activities that do not exceed the thresholds in Standard TR-S29 Table TR-16 to be classed as a High Traffic Generating Activity require an

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TR-R7		Buildings, structures, masts, or trees in Aerodrome Obstacle Limitation Surface
	All zones	Activity status: <b>Permitted</b>
		Where:
		<ul> <li>Any building, structure, mast, or tree does not penetrate the Aerodrome Obstacle Limitation Surfaces 1:50 approach slopes, the transitional slopes, or the horizontal surface.</li> </ul>
	All zones	2. Activity status: <b>Discretionary</b>
		Where:
		a. Compliance is not achieved with TR-R7(1).

TR-R8		Any activity not otherwise listed in this chapter
	All zones	Activity status: <b>Permitted</b>
		Where:
		a. Compliance is achieved with TR-S1 - TR-S28.
	All Zones	2. Activity status: Restricted discretionary
		Where:
		a. Compliance is not achieved with TR-R8(1).
		Matters of discretion:
		The effect of non-compliance with the relevant standard and the matters of discretion of any standard that is not met.

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# **Standards**

Road design			
TR-S1	ΓR-S1 Road design		
All zones  1. Any accessway to a site or sites with potential to accommodate more than 15 residential units shall be formed as a road in accordance with the Council's Engineering Development Standard 2023 and vested with Council.  2. Any shared accessway shall have legally enforceable arrangements for maintenance of the access at the time it is created.  3. All roads shall be formed in accordance with the Council's Engineering Development Standard 2023.		operation of the transport network.  2. Design of the access or road.	
TR-S2	Minimum road intersection separation dis	stances	
All Zones	The minimum separation between road intersections shall comply with Table TR-	Matters of discretion:  1. Effects on the safe, efficient, and effective operation of the transport network.	
	Table TR-2 Minimum intersection separat	ion distances	
	Posted Speed Limit (km/h)	Minimum intersection separation (m)	
	100	450	
	80	320	
	60	220	
	50	100	
	40	75	
	30 or less	60	

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Lighting		
TR-S3	Lighting for parking and loading areas	
All zones	<ol> <li>Lighting shall be provided during the hours of darkness for all:         <ol> <li>non-residential parking areas used in the hours of darkness;</li> <li>residential parking areas with more than 6 spaces; and</li> <li>loading areas used in the hours of darkness.</li> </ol> </li> <li>Note. Refer to Light Chapter for standards relating to lighting.</li> </ol>	<ol> <li>Matters of discretion:</li> <li>Effects on the safe operation of the transport network.</li> <li>Lighting level.</li> <li>Uniformity of lighting.</li> <li>Light spill.</li> <li>Hours of operation.</li> </ol>
TR-S4	Street lighting provision	
All Zones except Rural Zones, Māori Purpos e Zone, and Future Urban Zone	All public <i>roads</i> serving 3 or more residential <i>allotments</i> shall be provided with night lighting.  Note. Refer to Light Chapter for standards relating to lighting.	1. Effects on the safe operation of the transport network. 2. Uniformity of lighting.
Access		
TR-S5	Site access	
All zones	Accessways shall be formed in accordance with the Council's Engineering Development Standard 2023.	Matters of discretion:  1. Effects, including cumulative effects, on the safety, efficiency, and effectiveness of the transport network resulting from the nature, use, location, design, and

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					2. C D	onstruction of cessway. ouncil's Englevelopment 023.	ineering
All zones	1	linimum and maximum widths of		1. Effects, including cumulative effects, on the safety, efficiency, and effectiveness of the transport network resulting from the nature, use, location, design, and construction of the accessway.		ects, on the acy, and of the vork the nature, design, and	
	Table TR-3 Mi	nimum and	maximum wid	dth	s of acce	ssways	
	Activity	Number of residenti al units	Number of parking spaces provided	le	linimum egal vidth (m)	Minimum formed width (m)	Maximum formed width (m)
	Residential	1-3		4	.6	3.5	6.0
		4-8		5	.0	3.5*	6.0
		9-15		6	.5	5.5	6.0
	Commercial		1-15	8	.0	5.5	9.0
	and Industrial		> 15	8	.0	6.0	10.0
	Rural	1-15		1	0.0	4.0	8.0
	Notes:  * Passing bays	are required	when the leng	gth	of the acc	cessway exce	eeds 25m.
TR-S6	Vehicle cross	<i>ing</i> design					
All Zones	Vehicle crossings shall comply with the following:				1. E	f discretion:  ffects, includ  umulative eff	•

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- Table TR-4: Maximum number of vehicle crossings per site road frontage;
- 2. Table TR-5: Minimum sight distance requirements;
- 3. Table TR-6: Minimum separation between vehicle crossings and from intersections; and
- Figure TR-5: Minimum separation distance for a new vehicle crossing from a pedestrian or cycle crossing facility.

safety, efficiency, and effectiveness of the transport network resulting from the nature, use, location, design, and construction of the vehicle crossing.

### Table TR-4 Maximum number of vehicle crossings per site road frontage

Frontage length	Road frontage type		
(m)	State Highway, Transit Corridor	All other roads	
0 - 16	1	1	
> 16 - 60	1	2	
> 60 - 200	1	2	
> 200	2	3	

### **Table TR-5 Minimum sight distance requirements**

Posted speed limit (km/h)	Urban roads	Rural roads
30 or less	50m	
40	70m	
50	100m	
60	125m	
60		160m
70		190m
80		225m

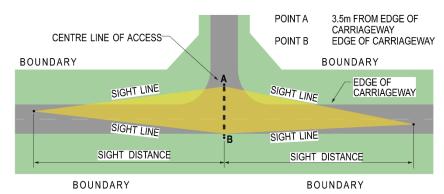
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100		300m	
Notes:			
Sight distance measured in accordance with Figure TR-3.			



\*OPERATING SPEED >> 85TH PERCENTILE SPEED ON FRONTAGE ROAD. THIS CAN BE TAKEN AS THE SPEED LIMITED PLUS 15% IF SURVEY DATA IS NOT AVAILABLE.

\*\*DISTANCES ARE BASED ON THE APPROACH SIGHT DISTANCE AND SAFE INTERSECTION SIGHT DISTANCE TABLES IN NAASRA, INTERSECTIONS AT GRADE (1) ASSUMING REACTION TIMES OF 1.5 SECONDS ON LOCAL ROADS WITH OPERATING SPEEDS UP TO 60KM/H AND 2.0 SECONDS FOR ALL OTHER SPEEDS AND ALL COLLECTOR AND ARTERIAL ROADS.



NOTES:

SITE DISTANCES SHALL BE MEASURED FROM A POINT 1.15m (MOTORISTS EYE LEVEL) ABOVE FINISHED SURFACE OF THE ACCESS CROSSING PLACE AND 1.15m ABOVE THE ROAD SURFACE.

THERE SHALL BE NO OBSTRUCTIONS TO VISIBILITY INSIDE THE AREA BOUNDED BY SIGHT LINES.

#### Notes:

- 1. Sight lines shall be from driver's eye height to driver's eye height (1.15m) above ground level within the sight triangle.
- 2. Sight distances AC and AD shall be measured along the centre line of the carriageway.
- 3. Point A: Intersection of lane centreline and driveway centreline.
- 4. Point B: Position of centreline of driveway where sight distance is measured (note this is measured from the edge lane line and where there is no edge lane line, from the edge of seal) and is 3.5m for residential houses and 5m for all other activities.
- 5. Point C and D: Position on centreline of lane where sight distance is measured.

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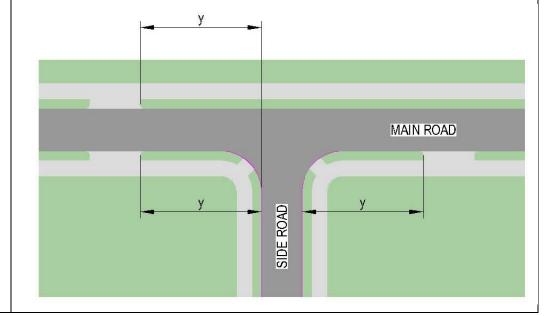
Table TR-6 Minimum separation between vehicle crossings and from intersections

Posted speed limit (km/h)	Minimum separation from intersection	Minimum separation from vehicle crossing on the same or opposite side of the road
50 or less	20m	9m
60	30m	20m
70	60m	40m
80	90m	100m
100	200m	200m

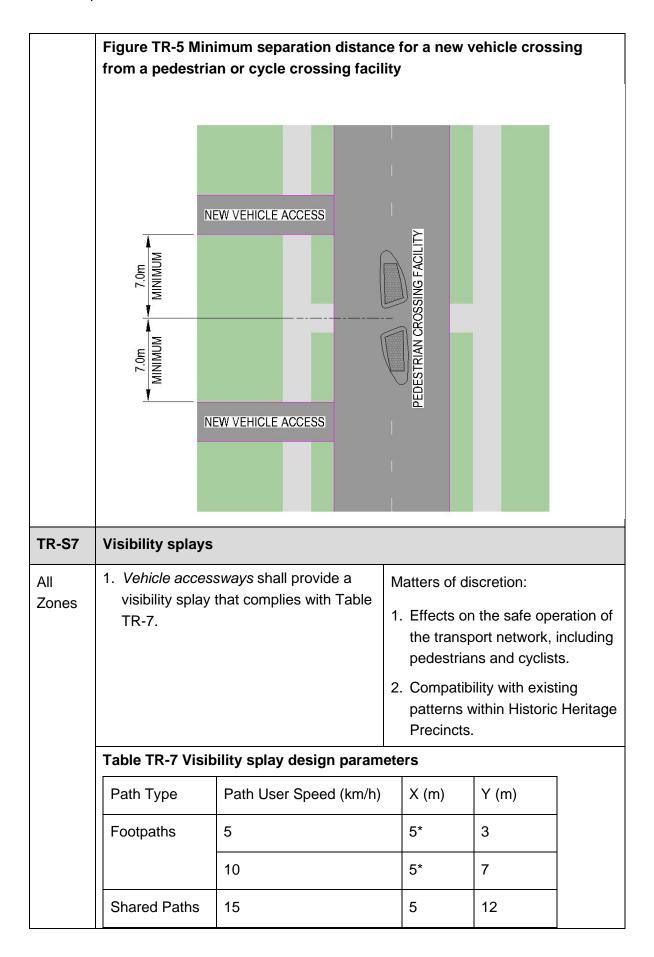
#### Notes:

Minimum separation distance shall be measured in accordance with Figure TR-4

Figure TR-4 Minimum separation of vehicle crossing from intersection



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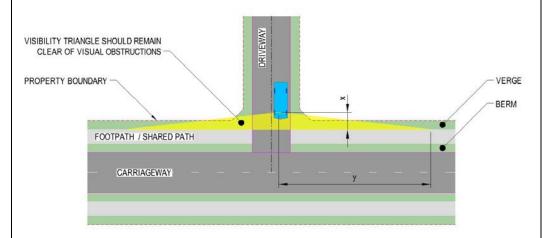
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	20	5	18
Cycle Path	25	5	26

#### Notes:

\*This value can be reduced to 2.5m at domestic driveways.

### Figure TR-6 Visibility splays



#### Notes

X = safe stopping distance for a vehicle prior to encroaching the path (measured from the path user location towards the property;

allows drivers to see path users in time to stop before reaching the path.

Y= safe stopping distance for path users travelling at a comfortable speed to stop in time to avoid collision (if a driver does not give way to them.

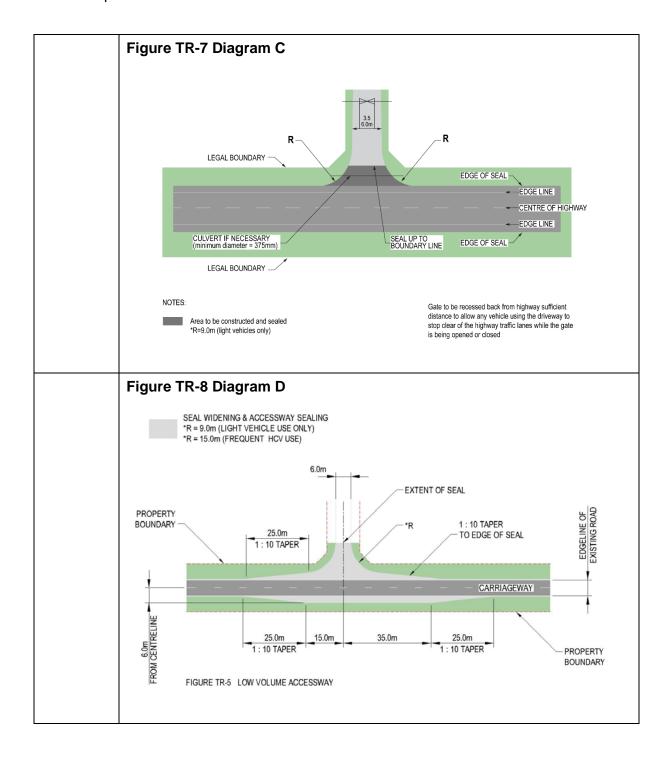
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TR-S8	Vehicle crossing formation	
All zones except Rural Zones, Māori Purpose Zone, and Future Urban Zone	All vehicle crossing points shall be formed, sealed, and drained in accordance with the requirements for vehicle crossings and surfacing in Council's Engineering Development Standard 2023.	Matters of discretion:  1. Effects on the safe, efficient, and effective operation of the transport network.  2. Access design, including width of access formation.  3. Drainage design and effects on drainage.
Rural Zones, Māori Purpose Zone, and Future Urban Zone All zones	<ul> <li>2. Any <i>vehicle crossing</i> to a sealed <i>road</i> shall be formed, surfaced with concrete, chip seal or asphaltic concrete, and drained: <ul> <li>a. for a minimum distance of 30m from the edge of the <i>road</i> carriageway for shared accessways.</li> <li>b. from the edge of the road carriageway to the property boundary for a single accessway.</li> </ul> </li> <li>3. All <i>vehicle crossings</i> shall be designed and constructed so that roading drainage is continuous across the length of the crossing in accordance with the</li> </ul>	4. Council's Engineering Development Standard 2023.  5. Compatibility with heritage character in Historic Heritage Precincts.
All zones	requirements for vehicle crossings in Council's Engineering Development Standard 2023.  4. All crossings to a state highway shall be	
	sealed from the edge of the carriageway for a minimum distance of 30m.	
TR-S9	Vehicle crossing alignment	
All zones	<ul> <li>1. All vehicle crossing points shall be designed so that:</li> <li>a. The crossing centreline intersects with the property boundary at an angle of between 45° and 90°; and</li> </ul>	Matters of discretion:  1. Effects of access alignment on road safety or sight distances.

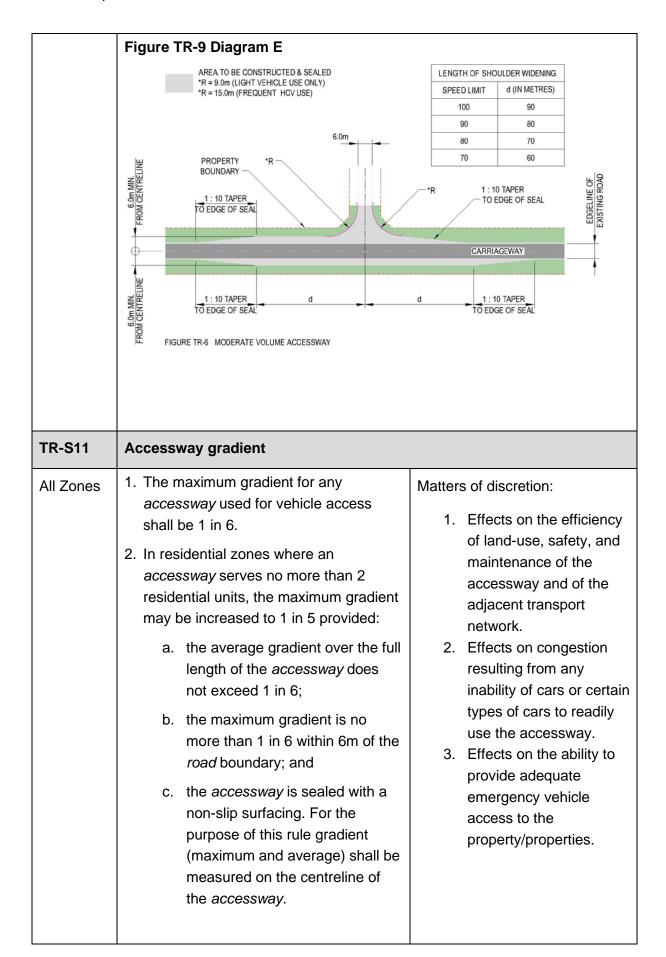
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	The crossing centreline intersects with the carriageway at an angle of 90° plus or minus 15°.			
TR-S10	Rural accessway design			
Rural Zones, Māori Purpose Zone, and Future Urban Zone	<ol> <li>Any vehicle crossing widaily volume of vehicle less than 100 shall be faccordance with the recordance with the recordance recor</li></ol>	movements of formed in quirements of ith an average movements of rmed as a road	1. 2.	Effects on the safety of the vehicle crossing and the adjacent transport network. Ability to accommodate the largest size of vehicle anticipated to use the access. Effects on the ability to provide adequate emergency vehicle access to the property/properties.
	Average volume of vehicle movements using access per day	One Network Framework (ONF Classification or Average Volume traffic using the adjoining road (v	of	Access design standard
	<= 30	Rural road (low vo	olume)	Diagram C (Figure TR-7)
		Rural Connector > 2000	<b>&gt;=</b>	Diagram D (Figure TR-8)
	31 – 100	Rural road (low vo	olume)	Diagram D (Figure TR-8)
		Rural Connector o 2000	or >=	Diagram E (Figure TR- 9)
	> 100 or serves more than 10 properties	>= 2000		Design as intersection

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TR-S12	Turning and passing	
All Zones	<ol> <li>A turning area shall include a turning head as per Clause 3.C.14.3 of the Council Development Engineering Standard 2023 and shall be provided on any accessway that:         <ol> <li>provides access to 3 or more lots; or</li> <li>is longer than 50m.</li> </ol> </li> <li>Passing opportunities or bays with a minimum width of 5.5m and length of 15m shall be provided at intervals of not more than 50m in urban areas and 100m in rural areas where visibility is available from bay to bay.</li> </ol>	<ol> <li>Matters of discretion:         <ol> <li>Effects on the safety of the accessway and adjacent road network associated with reversing vehicles.</li> <li>Effects on congestion resulting from any inability of cars or certain types of cars to readily use the accessway.</li> <li>Effects on the ability to provide adequate emergency vehicle access to the property/properties.</li> <li>Distances between passing opportunities.</li> </ol> </li> <li>Location of passing opportunities.</li> </ol>
TR-S13	Stormwater management	
All Zones except Rural Zones, Māori Purpose Zone, and Future Urban Zone	Accessways shall include stormwater control in accordance with Council's Engineering Development Standard 2023.	Matters of discretion:  1. Effects on stormwater flows and management. 2. Council's Engineering Development Standard 2023.

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Rural Zones, Māori Purpose	Where an accessway is less than or equal to 40m from a residential unit, it shall be formed and sealed with stormwater control.	
Zone, and Future Urban Zone	3. Where an accessway is greater than 40m from a residential unit it shall be:  a. formed to an all weather standard with stormwater control when the gradient is less than 1:10; or	
	b. formed and sealed with stormwater control where the gradient is greater than 1:10.	

TR-S14	Firefighting access	
All Zones	<ol> <li>Any accessway to a site located in an area where no fully reticulated water supply system is available, or having a length greater than 50m when connected to a road that has a fully reticulated water supply system including hydrants, shall:         <ol> <li>be designed to achieve the vehicle crossing design and formation standards in TR-S6 and the access design in TR-S5;</li> <li>have a minimum formed width of 4m;</li> <li>have a minimum height clearance of 4m;</li> <li>have a turning area suitable for a fire truck; and</li> <li>be designed to be free of obstacles that could hinder access for emergency service vehicles.</li> </ol> </li> </ol>	<ol> <li>Matters of discretion:</li> <li>The safe, effective, and efficient functioning of the vehicle access for firefighting access.</li> <li>Need for onsite access for appliances.</li> <li>Design of turning areas.</li> <li>Site and topographical constraints.</li> </ol>

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Accessibility			
TR-S15	Accessible routes		
All Zones	<ol> <li>For all non-residential activities providing parking an accessible route shall be provided between the main building entrance and any allocated parking for people with disabilities.</li> <li>Accessible parking bays shall be located as close as practical to the accessible entrance or to an accessible lift to the building or activity.</li> </ol>	<ol> <li>Matters of discretion:         <ol> <li>The ability for people with disabilities to safely and effectively park and enter and exit a vehicle and gain access to the building.</li> <li>Proximity to the accessible entrance.</li> <li>Any building or site constraints.</li> <li>Access gradients.</li> <li>Access widths.</li> <li>Access surfacing.</li> </ol> </li> <li>NOTE: Desirable minimum design standards are set out in NZS4121:2001 Design for Access and Mobility.</li> </ol>	

Car parking			
TR-S16	Minimum number of parking bays		
All Zones in Masterton District	1. No minimum requirement.		
All zones in Carterton and South Wairarapa Districts	2. Every activity shall provide sufficient off-street parking for vehicles associated with the activity and vehicles expected to visit or be stored on the site in connection with the activity, in accordance with Table TR-9 below.	<ol> <li>Matters of discretion:         <ol> <li>The safe, resilient, efficient, and effective functioning of the transport network.</li> <li>The parking needs of the activity.</li> </ol> </li> <li>The safety and movement of pedestrians, cyclists, public transport, and general traffic.</li> </ol>	

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- Where any activity is changed or any building erected or altered, sufficient vehicle parking shall be provided to meet the demands generated by the altered activity or building, in accordance with Table TR-9 below.
- 4. Vehicle *parking bays* shall be provided for activities in accordance with Table TR-9. If an activity is not listed, then the standard for the activity listed that is closest in nature to that proposed activity shall be applied. Parking requirements do not apply to temporary activities.
- On sites where there are multiple activities, and each activity requires vehicle parking in terms of this Plan, the total parking required shall be the combined total requirement for all activities.
- Notes:
- 6. Where the calculation of required vehicle *parking bays* results in a fraction of a whole space, any fraction less than or equal to one half shall be disregarded, and any fraction over one half shall count as one space.
- 7. The area of required spaces, access drives, or aisles provided within a building shall be excluded from the gross floor area (GFA) of the building.

- 4. Accessibility of the site by active transport and public transport.
- 5. Public health and safety.
- 6. The safety and usability of the *parking bays*.
- Site limitations, configuration of buildings, and activities.
- The complementary nature of parking demands on sites serving multiple activities.

#### Table TR-9 Minimum number of parking bays

Activity	Parking bays required
Visitor accommodation (excluding residential visitor accommodation)	1 per accommodation unit, room or campsite, plus 1 per 2 employees
Childcare centre	1 per employee, plus 1 per 10 persons to be accommodated in the centre

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Commercial activities (including, but not limited to retail, supermarkets, and business services)	1 per 45m <sup>2</sup> GFA, plus 1 per 100m <sup>2</sup> outdoor display area
Educational facilities (primary and secondary)	1 per employee
Educational facilities (tertiary)	1 per employee plus 1 per 10 students
Emergency service facilities	1 per 100m <sup>2</sup> GFA, plus 1 per on duty staff member (excluding volunteers)
Entertainment facility	1 per 3 persons the facility is designed to accommodate
Healthcare activities	4 per practitioner
Hospital	1 per bed the facility is designed to accommodate, plus 1 per 2 staff members on site
Industrial activities	1 per 50m² GFA
Place of assembly	1 per 4 persons the place is designed to accommodate
Residential activities	1 per residential unit
Food and beverage activities (excluding bars and taverns)	1 per 4 persons the facility is designed to accommodate
Bars and taverns	1 per 10m² GFA
Supported residential care facilities	1 per 4 beds the facility is designed to accommodate, plus 1 per employee on site
Sports fields and playing fields	1 for every 3 participants (design capacity)
Quarrying activities	No minimum

Note 1: GFA means Gross Floor Area and includes office space associated with the primary industrial activity not commercial offices or retail space.

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Note 2: Where an existing building within the Commercial and Mixed Use Zones is being used by a permitted activity the requirements outlined above do not need to be met.

For the purposes of the above parking requirements the following definitions apply:

**Outdoor display area** – (parking requirement) an outdoor space provided for the display of retail goods or services for purchase and excludes parking, landscaping, or other similar required areas.

**Place of assembly** – any facility and associated land and buildings for the general assembly of people engaged in deliberation, education, worship, or entertainment and includes, but is not exclusive to indoor recreation facilities, theatre, marae, cinemas, halls, conference facilities, churches, and education facilities.

### TR-S17 Accessible parking

#### All Zones

- Where on-site parking is provided, the minimum number of accessible parking bays shall be provided in accordance with Table TR-10.
- 2. Where parking is not otherwise provided, all non-residential activities with a combined GFA greater than 2,000m² shall provide accessible parking bays, even if no other parking bays are provided. If no other car parking bays are provided, the amount of accessible parking bays required shall be calculated by determining how many accessible parking bays would be required if one standard parking bay per 100m² GFA were provided.
- Where parking is not otherwise provided, all residential activities shall provide accessible parking at a rate of two spaces per 25 residential units on a pro-rata basis.

Note: Where the calculation of required vehicle parking bays results in a fraction of a whole space, any fraction less than or

Matters of discretion:

- 1. The parking demands of the activity.
- The complementary nature of parking demands on sites serving multiple activities.
- The safety and movement of pedestrians, cyclists, public transport, and general traffic.
- Accessibility of the site by active transport and public transport.
- 5. The safety and usability of the *parking bays*.
- Site limitations, configuration of buildings, and activities.

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	equal to one half shall be disregarded, and any fraction over one half shall count as one space.					
	Table TR-10 I	Minimum numbo	er of acc	essib	ole <i>parking bay</i> s	
	Total number of parking bays			Nun	nber of accessible	bays
	<20	<20				
	20-50			2		
	For every ad part thereof	ditional 50 car pa	arks or	1	1	
TR-S18	Vehicle parki	<i>ng bay</i> dimensi	ons			
All Zones	that meet the Table TR-11, associated wit	All parking bays shall have dimensions that meet the minimum requirements of Table TR-11, except for parking bays associated with quarrying activities, which are not subject to any minimum requirements.			the transpo  2. Adequacy of space for a anticipated  3. Number of	he safety and f the site and rt network. of manoeuvring II vehicles to use the site. reverse s required to part from a
	Table TR-11 I	Minimum <i>parkin</i>	ng bay di	mens	sions	
	User Type	Parking angle (degrees)	Stall wid (m) <sup>4</sup>	ith	Stall depth (m) <sup>5</sup>	Aisle width (m)
	All users	Parallel	2.2		5.6 unobstructed 6.5 obstructed	3.0 one-way 6.0 two way
	Long term	30	2.5		4.5	2.9
	parking <sup>1</sup>	45	2.5		5.3	3.7
		60	2.5		5.8	4.6
		90 2.5			5.6	5.8

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Medium	30	2.6	4.5	2.9
term parking <sup>2</sup>	45	2.6	5.3	3.5
	60	2.6	5.8	4.3
	90	2.6	5.6	5.8
Short term parking <sup>3</sup>	30	2.7	4.5	3.0
parking	45	2.7	5.3	4.2
	60	2.7	5.8	5.1
	90	2.7	5.6	6.2
Accessible	30	3.6	4.5	3.0
parking	45	3.6	5.3	4.2
	60	3.6	5.8	4.3
	90	3.6	5.6	6.2

#### Notes:

- 1. Tenant, employee, and commuter parking (generally all-day parking).
- 2. Medium-term town centre parking, sports facilities, entertainment centres, hotels, motels.
- Short term town centre parking, shopping centres, supermarkets, hospitals, and medical centres, activities involving drop off or collection of children or goods.
- 4. Stall width shall be increased by 300mm where a *parking bay* abuts a permanent obstruction such as a wall, column or other permanent obstruction. Where there is such an obstruction on both sides of a *parking bay*, the minimum stall width shall be increased by 600mm.
- 5. Stall depth may be reduced by the corresponding vehicle overhang length if a low kerb allows overhang, up to 600mm, but this overhang shall not encroach another *parking bay*, path, or landscaping.
- 6. Parking bays (other than parallel) immediately adjacent to paths or landscaping shall include wheel stop barriers located at least 600mm from the path or landscaping to avoid or mitigate obstruction of paths or damage to landscaping by parked vehicles.

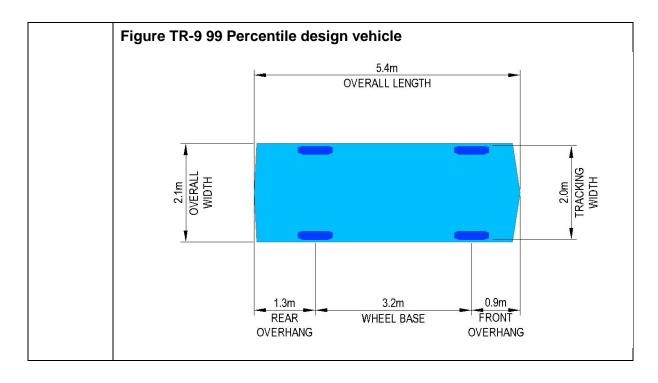
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TR-S19	Blind aisles	
All Zones	<ol> <li>Blind aisles shall be extended by a minimum of 1m beyond the last parking bay and the last parking bay widened by 300mm if it is bounded by a wall or space. Where practical, the end space should be widened by the same amount as the aisle is lengthened.</li> <li>TR-S19.1 shall not apply to any blind</li> </ol>	Matters of discretion:  1. Effects on the safety and efficiency of the site and the transport network.  2. Building constraints such as walls or columns.
	aisles in parking areas associated with quarrying activities.	
TR-S20	Parking bay gradients	
All Zones	The maximum gradient within a standard <i>parking bay</i> , including motorcycle parking shall be as follows:     a. 1 in 20 measured parallel to the	<ul><li>Matters of discretion:</li><li>1. Effects on the safety and efficiency of the site and the transport network.</li></ul>
	angle of parking; and b. 1 in 16 measured in any other direction.	2. Topographic constraints.
	2. The maximum gradient within any accessible <i>parking bay</i> shall be 1 in 40 in any direction.	
	3. TR-S20.1 and TR-S20.2 shall not apply to any parking bays associated with quarrying activities.	
TR-S21	Parking bay construction and formation	
All Zones	For sites with fewer than four <i>parking</i> bays, the surface shall be formed to an all-weather standard and drained.	Matters of discretion:  1. Effects on the safety and efficiency of the site and
	For sites with more four or more parking bays, the surface shall be formed, sealed, and drained.	the transport network.  2. Surface formation.  3. Drainage.
	Parking bays shall be marked on all sealed parking areas.	<ol> <li>Markings.</li> <li>Compatibility with heritage</li> </ol>
	4. TR-S21.1 – TR-S21.3 shall not apply to any parking bays associated with quarrying activities.	character in Historic Heritage Precincts.

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TR-S22	Reverse manoeuvres		
All Zones	1. Sufficient manoeuvring space shall be provided on site to ensure that no vehicle is required to reverse:  a. onto or off any State Highway; b. onto of off any transit corridor; c. onto or off any road with a marked cycle lane; d. across any shared use path; or e. across any cycle path.  2. Sufficient manoeuvring space shall be provided on site to ensure that a 99 percentile design vehicle is not required to reverse onto or off any Urban Connector road.  3. Sufficient manoeuvring space shall be provided on site to ensure that a 99 percentile design vehicle is not required to reverse onto or off any urban road where:  a. four or more parking bays are serviced via a single accessway; or	Matters of discretion:  1. Effects on the safe, efficient, and effective operation of the transport network, including pedestrian and cycle safety.  2. Compatibility with heritage character in Historic Heritage Precincts.	
	<ul><li>b. the activity is on a rear site.</li><li>c. TR-S22.1 – TR-S22.3 shall not apply to any quarrying activities.</li></ul>		

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Cycle parking					
TR-S23	Minimum number of cycle parking spaces				
All Zones	The minimum number of cycle parking spaces shall be provided in accordance with Table TR-12.		2	ers of discretion:  1. Effects on the safe effectiveness and efficiency of the transport network, including the cyclin network.  2. The availability of cycle parking in the vicinity of the activity.  3. Site limitations.	g
	Table TR-12 Minimum ու	umber of cycle park	ing spaces		
	Activity	Short stay / visito	r	Long stay / staff	
	Recreation activities, community facilities	0.1 per person that the site is designed to accommodate		Minimum 1, 0.1 per staff member*	
	Quarrying activities	0		0	
	Retail activity	Minimum 1, 0.1 per 100m <sup>2</sup> GFA		Minimum 1, 0.1 per 100m <sup>2</sup> GFA	

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	Healthcare facility	Minimum 1, 1 per 100m <sup>2</sup> GFA	Minimum 1, 0.1 per staff member*
	Educational facility	Minimum 1	Minimum 1, 0.1 per staff member*
	Industrial activity	0	Minimum 1, 0.1 per staff member*
	Other commercial activities (including, but not limited to, offices)	Minimum 1, 0.05 per 100m <sup>2</sup> GFA	Minimum 1, 0.1 per 100m <sup>2</sup> GFA

<sup>\*</sup> The number of staff members is the maximum number of full-time or part-time staff members on the site at any one time.

Note 1: Short stay / visitor cycle parking requirements do not apply in the Town Centre Zone.

Note 2: Where an existing building within the Town Centre or Neighbourhood Centre Zones is being used by a permitted activity the requirements outlined above do not need to be met.

TR-S24	Cycle parking design	
All Zones	<ol> <li>All cycle stands shall:         <ul> <li>a. be securely anchored to an immovable object;</li> <li>b. support the bicycle frame and front wheel; and</li> <li>c. allow the bicycle frame to be secured.</li> </ul> </li> <li>Cycle parking facilities shall be available during the hours of operation and shall not be diminished by the subsequent erection of any structure, storage of goods, landscape planting, or any other use.</li> <li>Cycle parking facilities shall:         <ul> <li>a. be easily accessible for users;</li> </ul> </li> </ol>	<ol> <li>Matters of discretion:         <ol> <li>Effects on the safety, effectiveness, and efficiency of the transport network, including the cycling network.</li> <li>Site limitations including building configurations.</li> <li>User requirements in relation to security or duration of parking.</li> <li>Compatibility with heritage character in Historic Heritage Precincts.</li> </ol> </li> </ol>

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	_		
	b. not impede pede thoroughfares in used by people vision is restricted	cluding areas whose mobility or	
	c. be clear of vehic manoeuvring are		
	d. TR-S24.1 – TR-S24.3 shall not apply to any cycle parking provided in association with any quarrying activities.		
TR-S25	Trip-end facilities		
All Zones	All activities shall provide trip end facilities for active modes in accordance with Table TR-13, except for quarrying activities where no minimum trip end facilities shall be required.		<ol> <li>Matters of discretion:         <ol> <li>Effects on the safety, effectiveness, and efficiency of the transport network, including the cycling network.</li> <li>Site limitations including building configurations.</li> <li>User requirements in relation to security or duration of parking.</li> </ol> </li> </ol>
	TR-13 Minimum end tr	ip facilities	
	Number of staff	Trip end facilitie	S
	<25	None	
	25-50	1 shower 1 locker per 10 st	aff
	>50	1 shower per 50 s	staff or part thereof

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Loading					
TR-S26	Loading and standing space dimensions				
All non-residential activity	<ol> <li>One loading space per site shall be provided with dimensions suitable for the largest vehicle anticipated on the site and in accordance with Table TR-14.</li> <li>Where more than one large vehicle is anticipated on a site, then standing space or additional loading spaces for each additional vehicle shall be provided.</li> <li>TR-S26.1 and TR-S26.2 shall not apply to any quarrying activities.</li> </ol>		<ol> <li>Matters of discretion:         <ol> <li>Effects on the safety and efficiency of the site and the transport network.</li> <li>Site limitations including building configurations.</li> </ol> </li> <li>Loading and servicing demands.</li> </ol>		
Residentia I Activity	4. One loading space for a Small Rigid Vehicle shall be provided for any residential site with more than 10 residential units.				
	TR-14 Loading space dimensions				
	Vehicle Type	Width (m)	Lengt	h (m)	Height clearance (m)
	B99	3.0	6.0		3.5
	SRV	3.5	6.4		3.5
	MRV	3.5	8.8		4.5
	HRV	3.5	12.5		4.5
	AV	3.5	20.0		4.5
	Notes:		I		
	<ol> <li>B99 design vehicle dimensions are based on NZS2890.1:2009.</li> <li>SRV, MRV, HRV, and AV dimensions are based on NZS2890.2: 2018.</li> </ol>				
TR-S27	Loading and sta	nding space acc	ess		
All Zones	Circulation accessways to loading spaces shall be designed to accommodate the swept path of the		1. E	of discretion:  Effects on the safety and efficiency of the site and he transport network.	

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largest vehicle anticipated on site and provide clearances of:

- a. 0.5m between the vehicle body and vertical obstructions; and
- b. 1m separation between vehicle bodies on two-way accessways.
- Any required standing space shall not obstruct any space used for on-site queuing, loading, parking, or manoeuvring space.
- Accessway gradients shall be in accordance with Table TR-15.
- 4. TR-S27.1 TR-S27.3 shall not apply to any quarrying activities.

2. Site limitations including building configurations.

#### Table TR-15 Loading space accessway gradients

Vehicle Type	Maximum Gradient	Maximum rate of change of gradient
B99	1:6.5 (15.4%)	1:12 (8.3%) in 4m of travel
SRV	1:6.5 (15.4%)	1:16 (6.25%) in 7m of travel
MRV	1:6.5 (15.4%)	1:16 (8.3%) in 7m of travel
HRV	1:6.5 (15.4%)	1:16 (8.3%) in 10m of travel
AV	1:6.5 (15.4%)	1:16 (8.3%) in 10m of travel

Notes:

SRV, MRV, HRV, and AV dimensions are based on NZS2890.2: 2018.

#### Loading and standing spaces - construction and formation **TR-S28** 1. For sites with four or fewer loading Matters of discretion: Rural 1. Effects on the safety and and standing areas, the loading and zones. standing areas shall be formed to an efficiency of the site and Māori all-weather standard, drained, and the transport network. Purpose have a maximum gradient of 1:20 2. Surfacing. Zone, and **Future** (5%). 3. Drainage. 4. Gradient. Urban 2. For sites with more than four loading 5. Signs and markings. Zone and standing areas, the loading and standing areas shall be sealed,

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	drained, and have a maximum gradient of 1:20 (5%).	
3. TR-S28.1 and TR-S28.2 shall not apply to any quarrying activities.		
	Notes: Loose, large grade metal does not constitute an all weather standard.	
All other zones	<ul><li>4. Loading and standing areas shall be sealed, drained and have a maximum gradient of 1:20 (5%).</li><li>5. Loading areas shall be signed and marked.</li></ul>	Matters of discretion:  1. Effects on the safety and efficiency of the site and the transport network.  2. Surfacing.  3. Drainage.  4. Gradient.  5. Signs and markings.

High traffic	generating thresholds				
TR-S29	High traffic generating thresholds				
All Zones	Table TR-16 HTGP Th	resholds			
	Type of Zone	Average Daily Traffic Generation Threshold	Peak Hourly Traffic Generation Threshold	Heavy Vehicle Movement Threshold	
	General Residential Zone, Settlement Zone, Open Space and Recreation Zones	200 vpd	25 vph	10 hvpd	
	All other zones	400 vpd	50 vph	50 hvpd	
	The following table provides guidance on expected traffic generation for different activities to help determine whether an <a href="Integrated Transport Assessment">Integrated Transport Assessment</a> (ITA) is likely to be required.				

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Table TR-17 Average Daily Traffic Generation Screening Table		
200 vpd		400 vpd
25 resident	ial units	50 residential units
80 units		160 units
50 children		100 children
Full ITA		
Basic ITA		
Full ITA		
750m² GFA	١	1,500m <sup>2</sup> GFA
2,500m <sup>2</sup> GI	-A	5,000m <sup>2</sup> GFA
Full ITA		
750m² GFA	١	750m² GFA
200m <sup>2</sup> GFA		400m² GFA
500m <sup>2</sup> GFA		1,000m² GFA
Basic ITA		
50m <sup>2</sup> GFA		100m <sup>2</sup> GFA
Basic ITA		
nent		
ication	Type of ITA Required	
	Basic	
	Basic	
	Full	
	Full	
	200 vpd  25 resident  80 units  50 children  Full ITA  Basic ITA  750m² GFA  2,500m² GFA  200m² GFA  500m² GFA  500m² GFA  Basic ITA  50m² GFA  Ment	200 vpd  25 residential units  80 units  50 children  Full ITA  Basic ITA  Full ITA  750m² GFA  2,500m² GFA  200m² GFA  200m² GFA  500m² GFA  Basic ITA  Basic ITA  Type of ITA  Basic  Full  Full

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Full

Non-complying

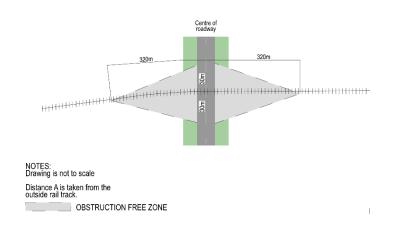
TR-S30	Sight lines at railway level crossings			
All Zones	Restart sight triangles at level crossings			
	On sites adjacent to all rail level crossings, no building, structure, planting or visual obstruction shall be located within the shaded areas shown in Figure 1. These are defined by a sight triangle taken 5 metres from the outside rail and distance A along the railway track. Distance A depends on the type of control (Table 1).			
	Figure 1: Restart sight triangles for all level crossings			
	NOTES: Drawing is not to scale Sm restart position is taken from the oliside rail track.  OBSTRUCTION FREE ZONE  Table 1: Required restart sight distances for Figure 1  Required approach visibility along tracks A (m)			
	Signs only Alarms only barriers			
	677m 677m 60m			
	Advice Note:			
	The restart sight line triangles ensure that a road vehicle driver stopped at a level crossing can see far enough along the railway to be able to start off, cross and clear the level crossing safely before the arrival of any previously unseen train.			
	Of particular concern are developments that include shelter belts, tree planting, or a series of building extensions. These			

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conditions apply irrespective of whether any visual obstructions already exist.

Approach sight triangles at level crossings with Give Way signs: On sites adjacent to rail level crossings controlled by Give Way Signs, no building, structure, planting or other visual obstruction shall be located within the shaded areas shown in Figure 2.

Figure 2: Approach sight triangles for level crossings with "Give Way" signs



Advice Note: The approach sight triangles ensure that clear visibility is achieved around rail level crossings with Give Way signs so that a driver approaching a rail level can either:

- See a train and stop before the crossing; or
- Continue at the approach speed and cross the level crossing safely.

Of particular concern are developments that include shelter belts, tree planting, or a series of building extensions. These conditions apply irrespective of whether any visual obstructions already exist.

No approach sight triangles apply for level crossings fitted with alarms and/or barrier arms. However, care should be taken to avoid developments that have the potential to obscure visibility of these alarm masts.

This is particularly important where there is a curve in the road on the approach to the level crossing, or where the property boundary is close to the edge of the road surface and there is the potential for vegetation growth.

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Proposed Wairarapa Combined District Plan (Decisions Version) TR - Transport

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TR-A	TR-APP1 Integrated Transport Assessment Requirements				
	Description	Details Required	Basic ITA	Full ITA	
1	Background	Description of proposal, purpose of ITA	√	√	
2	Existing environment	Description of: site location site context surrounding land use	<b>V</b>	√	
3	Existing transport infrastructure	Description of: site access and service arrangements surrounding road network/road hierarchy public transport network and facilities cycle network and facilities pedestrian network and facilities	√ ·	√ ·	
4	Existing travel patterns	Description of: traffic volumes (annual, seasonal, daily, hourly as appropriate) intersection performance (turning volumes, queue lengths, delays, level of service) crash analysis (Minimum of five years)	√ ·	1	
5	Committed environment changes	Approved developments in the surrounding area  Transport infrastructure improvement	√	<b>V</b>	

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TR-A	TR-APP1 Integrated Transport Assessment Requirements			
	Description	Details Required	Basic ITA	Full ITA
6	Proposal Details	Description of:	√	√
		proposed activity site layout (access, circulation and parking)		
		any proposed transport infrastructure		
		staging (if applicable)		
		servicing/loading arrangements		
		end of trip facilities for active modes		
7	Travel Demand Management	Travel Demand Management measures for any interventions and actions to influence travel behaviour, with the aim of minimising travel demand or redistributing demand from traditional car usage to more sustainable transport modes	√	√
8	Travel choice assessment	a. demonstrates how the use of public transport and active modes will be maximised; and	√	<b>√</b>
		b. demonstrates how the use of private vehicles will be minimised;		
9	Expected Travel Demands	Assessment of: traffic generation (daily, peak hours) heavy vehicle movements traffic distribution on the transport network	√	√
		Mode split		
10	Transportation Effects	Assessment of effects on: safety for all travel modes traffic volumes effects on frontage road	√	<b>V</b>
		wider transport network (Full ITA1)		

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TR-A	TR-APP1 Integrated Transport Assessment Requirements				
	Description	Details Required	Basic ITA	Full ITA	
11	Mitigation Measures	Description of any proposed mitigation measures	√	<b>V</b>	
12	District Plan	Assessment of compliance with District Plan Transport Rules	√	1	
13	Strategic Framework	Assessment against relevant local, regional and national transport plans and strategies		<b>V</b>	
14	Conclusions and recommendations	Summary of assessment with conclusions Recommended conditions of consent, if any	<b>V</b>	<b>V</b>	

### Notes:

It is recommended that the extent of any wide area assessment and the assessment methodology is agreed with Council in advance of lodging a resource consent application.

The level of detail in the basic or full ITA should be commensurate with the scale and significance of the proposal.

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#### **TR-APP2** Aerodrome Obstacle Limitation Surface Specifications

An Obstacle Limitation Surface (OLS) is an internationally accepted area to protect aircraft operations in and around an aerodrome. The obstacle limitation surfaces of an aerodrome are defined surfaces in the airspace above and adjacent to the aerodrome. The surfaces are primarily intended to protect the critical areas for the arrival and departure of aircraft using a runway.

The Civil Aviation Authority of New Zealand (CAANZ) Part 139 Advisory Circulars provide guidance on what OLS areas should include.

The areas originate from the ends and edges of the runway strip area which is a protection area around the runway.

CAANZ Advisory Circulars (ACs) provide acceptable means of compliance and guidance material for aerodrome operators on OLS in two documents:

- Advisory Circular AC139-6 Aerodrome Design Requirements: All Aeroplanes
   Conducting Air Transport Operations and All Aeroplanes above 5700 kg MCTOW
- Advisory Circular AC139-7 Aerodrome Standards and Requirements: Aeroplanes at or below 5700 kg MCTOW–Non Air Transport Operations

Hood aerodrome has three runways with the main paved runway 60/24 designed to AC139-6 and grass runways 06/24 and 10/28 designed to AC139-7.

The following tables provide the OLS specifications for Hood Aerodrome. Reference should also be made to the Planning Maps.

#### Runway 06/24 - Paved

Runway 06/24	Paved Runway Configuration	on (1250 x 30m)
Design Guidelines	CAA Advisory Circular AC139-6 Aerodrome Design Requirements: All Aeroplanes Conducting Air Transport Operations and All Aeroplanes above 5700 kg MCTOW	
Design Basis	1. Dimensions and slopes based on Tables 4-1 (Approach Runway) and Table 4-2 (Takeoff Runway) for a Code 3 Non-precision approach runway.	
	<ul><li>2. The runway strip is 75 metres each side of the centre line.</li><li>3. Only one surface is shown on the plan which combines the most demanding geometrical constraints of the approach and take-off fans.</li></ul>	
Geometry Take-off & Landing Fans	Length of inner edge:	150m (approach/ take-off)

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Distance from runway end/threshold:	60 m (approach/ take-off)
Divergence:	1:6.6 (approach)
Final Width:	4,695 m (approach)
Length:	15,000 m (approach/ take-off)
Slope:	1:50 (take-off)
The origin of the take-off and landing fans are coincident as specified in the advisory circular, at the end of the runway strip.	

### Runway 10/28 - Grass

Runway 10/28	Grass Runway Configuration (1042 x 30m)		
10/26	Published in the Aeronautical Information Publication (AIP) for Masterton (NZMS)		
Design Guidelines	CAA Advisory Circular AC139-7 - Aerodrome Standards and Requirements: Aeroplanes at or below 5700 kg MCTOW–Non Air Transport Operations		
Design Basis	<ol> <li>Day VFR Runway</li> <li>The runway strip is 55 metres overall.</li> <li>Only one surface is shown on the plan, which combines the most demanding geometrical constraints of the two areas.</li> </ol>		
Dimensions and slopes	Length of inner edge:	30m	
	Distance from runway end/threshold:	30m	
	Divergence:	1:20	
	Final Width:	175m	
	Length:	1,200m	
	Slope:	1:20	

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### Runway 6/24 - Grass

Runway 06/24	Grass Runway Configuration (1060 x 30m)  Published in the Aeronautical Information Publication (AIP) for	
	Masterton (NZMS)	
Design	·	
Guidelines		
Design Basis	1. Day VFR Runway	
	2. The runway strip is 55 meters overall.	
	3. Only one surface is shown on the plan, which combines the most demanding geometrical constraints of the two areas.	
Geometry	Length of inner edge:	30m
	Distance from runway end/threshold:	30m
	Divergence:	1:20
	Final Width:	175m
	Length:	1200m
	Slope:	1:20

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