

Chapter 21

Appendices

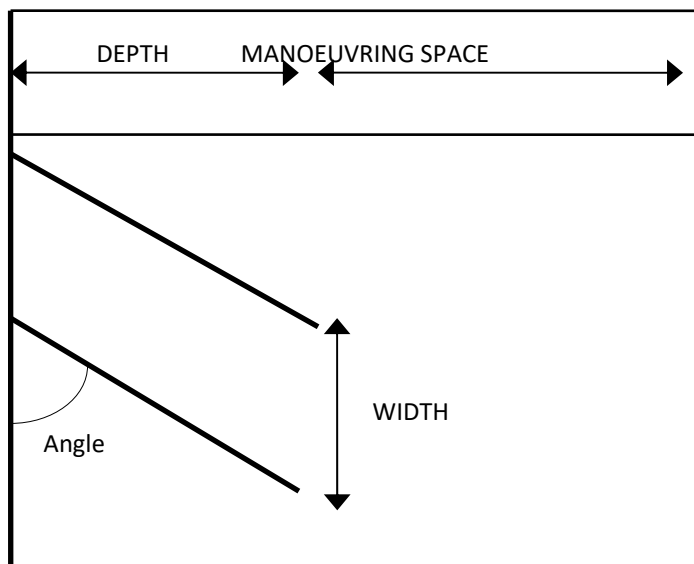


APPENDIX 1: Carparking dimensions

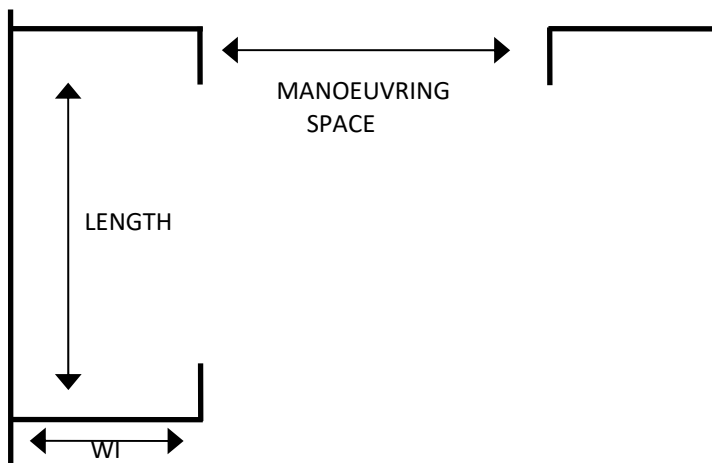
Minimum requirements for carparking spaces

Parking type	Width	Depth	Manoeuvring space	Total depth needed
Angle parking 90 ⁰	2.5m	4.9m	7.7m	12.6m
Angle parking 75 ⁰	2.5m	5.2m	6.3m	11.5m
Angle parking 60 ⁰	2.5m	5.2m	4.1m	9.3m
Angle parking 45 ⁰	2.5m	4.9m	3.7m	8.6m
Angle parking 30 ⁰	2.5m	4.0m	3.7m	7.7m
		Length		
Parallel parking	2.5m	6.1m	3.7m	

ANGLE PARKING



PARALLEL PARKING



APPENDIX 2: Designations and Requirements

Ref No.	Designating authority	Designation Purpose	Locality	Legal description
A1	Minister of Justice Department for Courts	Ōpōtiki District Courthouse	Corner of Church and Elliot Street Ōpōtiki	Blk III Ōpōtiki SD Lot 447, Sec 2 Town of Ōpōtiki
		That prior to lodging outline plans for any construction in accordance with Section 176A of the Resource Management Act 1991, the requiring authority will consult with the Heritage New Zealand Pouhere Taonga on any proposed construction work and include details of that consultation with the outline plans		
B1	Telecom New Zealand Limited	Ōpōtiki Cellular Site	Ōhiwa Harbour Road Ōpōtiki	Pt Lot 1 DP 6545 shown as Area A Plan SO 43300
B2		Ōpōtiki Exchange	Potts Avenue Ōpōtiki	Lot 1 DP 3227 and Pt Lots 2 and 3 DP 7785, Blk III Ōpōtiki SD
B3		Te Kaha Exchange	State Highway 35 Te Kaha	Lot 1 DP 8357
B4		Waihau Bay Exchange	Orete Point Road Waihau Bay	Pt Lot 4 DP 5347, Blk V, Whangaparaoa SD
C	NZ Transport Agency	To undertake maintenance, improvements, operation and use of the State Highway network.		State Highway 2 State Highway 35 Note: That the legal property width and the associated designation of the state highway network is the physical road reserve boundary
D1	Transpower New Zealand Limited	National Grid Activities (Including substation and associated ancillary infrastructure.	Corner of Te Maara Place and Copenhagen Road, Te Kaha	Sec 1 SO 8319 Blk V Te Kaha SD
D2		National Grid Activities (Including substation and associated ancillary infrastructure.	31 Gabriels Gally Road, Waiōtahe	Sec 1 SO 1818 Blk I Ōpōtiki SD
E1	Ministry of Education	Ashbrook School	Wellington Street Ōpōtiki	Lots 353, 354, 355, and Pt Lots 352, 399, 400, 401, and 402 Sec 2 Town of Ōpōtiki
E2		Kutarere School	State Highway No.2 Kutarere	Pt Lot 191A Waiotahi Parish, Blk XI, Whakatane SD.

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Ref No.	Designating authority	Designation Purpose	Locality	Legal description
E3		Te Kura Mana Maori Maraenui	State Highway 35 Haupoto	Pt Maraenui Blk II Tokata SD
E4		Te Kura o Omaio	State Highway 35 Omaio	Omaio 10 Blk V Haparapara SD School Reserve (Omaio) Blk V Haparapara SD
E5		Omaramutu School	RD 1 Ōpōtiki	Pt Opape 3Y1B2 Block, Blk V Waiaua SD
E6	Ministry of Education	Ōpōtiki College	St John Street Ōpōtiki	Lot 2 and Pt Lots 1 and 3 DP 14521AK and Lot 426 Sec 2 Town of Ōpōtiki Blk III Ōpōtiki SD, Pt Lots 1 and 3 DP 14521AK, Lots 1 and 2 DP 3167, Lot 1 DP 4459, Lots 276, 318, 319 Sec 2 Town of Ōpōtiki Blk III Ōpōtiki SD, Pt Lots 318 and 319 Sec 2 Town of Ōpōtiki Blk III Ōpōtiki SD
E7	Ministry of Education	Ōpōtiki School	Church Street Ōpōtiki	Lots 107 - 111 Sec 2 Town of Ōpōtiki Blk III Ōpōtiki SD, Lot 452 Sec 2 Town of Ōpōtiki Blk III Ōpōtiki SD, Lots 453 and 458 Sec 2 Town of Ōpōtiki Blk III Ōpōtiki SD
E8		Raukokore School	State Highway 35 Ōpōtiki	Pt Te Poiti No 1, Reserve Block IV and Pt School Reserve Whangaparaoa SD
E9		Te Whanau-A-Apanui Area School	State Highway 35 Te Kaha	Pt 2,3 and 4 Pt Te Kaha 8 Blk V Te Kaha SD, Pt Maori School Reserve Blk V Te Kaha, Pt Te Kaha C7 Block V Te Kaha SD
E10		Te Kura o Torere	State Highway 35 Torere	Sec 1 Blk II Waiaua SD
E11		Te Kura Kaupapa Maori o Waioeka	Waioeka Pa Road Waioeka	Lot 337A Waioeka Parish Blk XI Ōpōtiki SD, Pt Lots 337B6A and 337B6B Waioeka Parish Blk XI Ōpōtiki SD
E12	Ministry of Education	Waiotahi Valley School	Gabriels Gully Road Waiotahi	Lot 1 DP 3810 Blk I Ōpōtiki SD, Lot 2 DP 3272 and Pt Lot 4 DP 10412AK Blk I Ōpōtiki SD
E13		“Intentionally Blank”	“Intentionally Blank”	“Intentionally Blank”
E14		Te Kura Mana Maori o Whangaparaoa	State Highway 35 Whangaparaoa	Sec 2 and 3 Blk I Town of Whangaparaoa Blk II Whangaparaoa SD, Sec 3 Blk II Whangaparaoa SD

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Ref No.	Designating authority	Designation Purpose	Locality	Legal description
E15		Woodlands School	Hukutaia Road Woodlands	Sec 45 Hukutaia Settlement Blk VI Ōpōtiki SD
F1	Minister of Police	Ōpōtiki Police Station	King Street Ōpōtiki	Sec 1 SO 8544 Blk III Ōpōtiki SD
F2		Te Kaha Police Station	State Highway 35 Te Kaha	Lot 2 DP 8905, State Highway 35 Te Kaha
G1	Ōpōtiki District Council	Hukutaia Water Supply	Crooked Road, Hukutaia Ōpōtiki	Lot 1 DP5409 Blk VI Ōpōtiki SD
G2		Ōpōtiki Town Sewerage Scheme	Volkners Island Potts Avenue	Local Purpose Reserve Sewage Treatment, Lot 341, Pt Volkners Island Reserve Town of Ōpōtiki
G3		Ōhiwa Water Supply	Ōhiwa Harbour Road Ōhiwa	Recreation Reserve Pt Lot 92 Waiotahi Paris, Blk I Ōpōtiki SD
G4		Waihau Bay Sewerage Scheme	Otutehapari Road Waihau Bay	Local Purpose Reserve Sewage Treatment, Lots 30 and 36 DP 6105 Whangaparaoa SD
G5	Ōpōtiki District Council	Ōpōtiki Town Water Supply	Ōtara Road East Ōpōtiki	Local Purpose Reserve, Lots 3 and 4 DP 15744, Lot 1 DP 2937, Blk XII Ōpōtiki SD, Sec 12 Blk XIII Waiau SD. Local Purpose Reserve (Water Supply) Sec 4 Blk VIII, Lot 1 DP15744AK, Lot 2 DP15744AK
G6		Ōpōtiki Town Sewerage Works	Snells Road Ōpōtiki	Local Purpose Reserve (Sewerage Works) Sec 1 and Sec 2 SO 8737 Blk III, Ōpōtiki SD

APPENDIX 3: Noise Standards For Temporary Military Training Activities

Temporary Military Training Activities identified as permitted activities shall comply with the following noise standards:

1. Weapons firing and/or the use of explosives

- a. Notice is provided to the Council at least 5 working days prior to the commencement of the activity.
- b. The activity complies with the following minimum separation distances to the notional boundary of any building housing a noise sensitive activity:

0700 to 1900 hours: 500m

1900 to 0700 hours: 1,250m

- c. Where the minimum separation distances specified above cannot be met, then the activity shall comply with the following peak sound pressure level when measured at the notional boundary of any building housing a noise sensitive activity:

0700 to 1900 hours: 95 dBC

1900 to 0700 hours: 85 dBC

2. Mobile noise sources

Shall comply with the noise limits set out in Tables 2 and 3 of *NZS6803:1999 Acoustics – Construction Noise*, with reference to ‘construction noise’ taken to refer to mobile noise sources*.

Note: Mobile noise sources (other than firing of weapons and explosives) include personnel, light and heavy vehicles, self-propelled equipment, earthmoving equipment.

3. Fixed (stationary) noise sources

Shall comply with the noise limits set out in the table below when measured at the notional boundary of any building housing a noise sensitive activity*.

Time (Monday to Sunday)	L _{Aeq} (15 min)	L _{AFmax}
0700 to 1900 hours	55 dB	n.a.
1900 to 2200 hours	50 dB	
2200 to 0700 hours the next day	45 dB	75 dB

Note: Fixed (stationary) noise sources (other than firing of weapons and explosives) include power generation, heating, ventilation or air conditioning systems, or water or wastewater pumping/treatment systems.

4. Helicopter landing areas

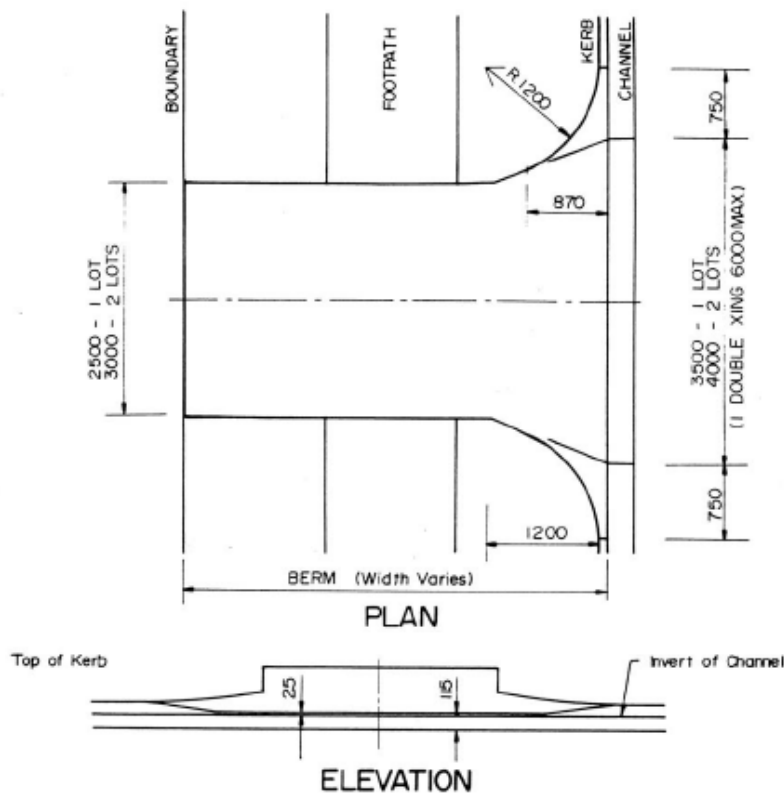
Shall comply with NZS6807:1994 Noise Management and Land Use Planning for Helicopter Landing Areas*.

* Noise levels shall be measured in accordance with NZS6801:2008 Acoustics – Measurement of Sound.

APPENDIX 4: Vehicle Entrance Designs


Vehicle Entrances shall be designed and constructed in accordance with the Ōpōtiki District Council “Code of Practice – Subdivision and Development” which are set out below. These provide a means of compliance.

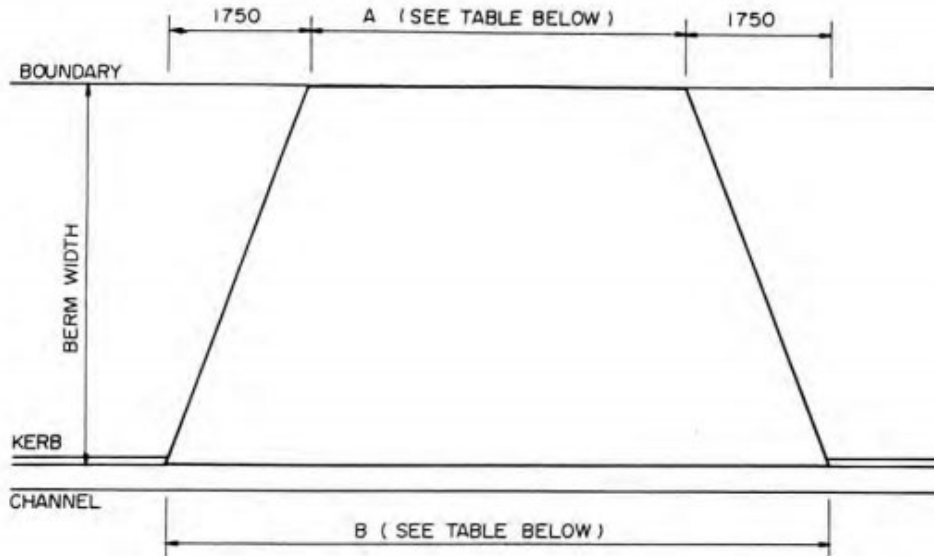
Alternative design and construction may be established where the road control authority has approved the alternate design and a copy of the approval is submitted to the Council.



Notes:

1. All concrete shall be 115 thick, have a strength of 20.0 MPa and be wood floated to a smooth surface.
2. All existing footpath to be replaced unless specifically exempted by the Engineer and the crossing shall run continuously between the kerb boundary and the property boundary.
3. If there is no existing footpath the Council will provide level pegs to ensure that the work ties in with the future footpath development.
4. The work shall be carried out in such a manner as to ensure the safety of road and footpath users.
5. Vehicle crossings shall be reinforced with hrc 665 mesh centrally placed. For more than 2 Lots refer to industrial/commercial Drawing R 09.
6. Vehicle crossings shall be in accordance with the NZ Transport Agency's Pedestrian Planning and Design Guide October 2009 (PPDG)
 - a) the maximum crossfall of the ramp shall be 2% (1:50), in accordance with Table 15.2 of the PPDG
 - b) the minimum width of a footpath shall be 1.65m, in accordance with Table 14.3 of the PPDG


	Standard Drawings	<i>Not to Scale</i>
	Vehicle Crossing Residential	R 08

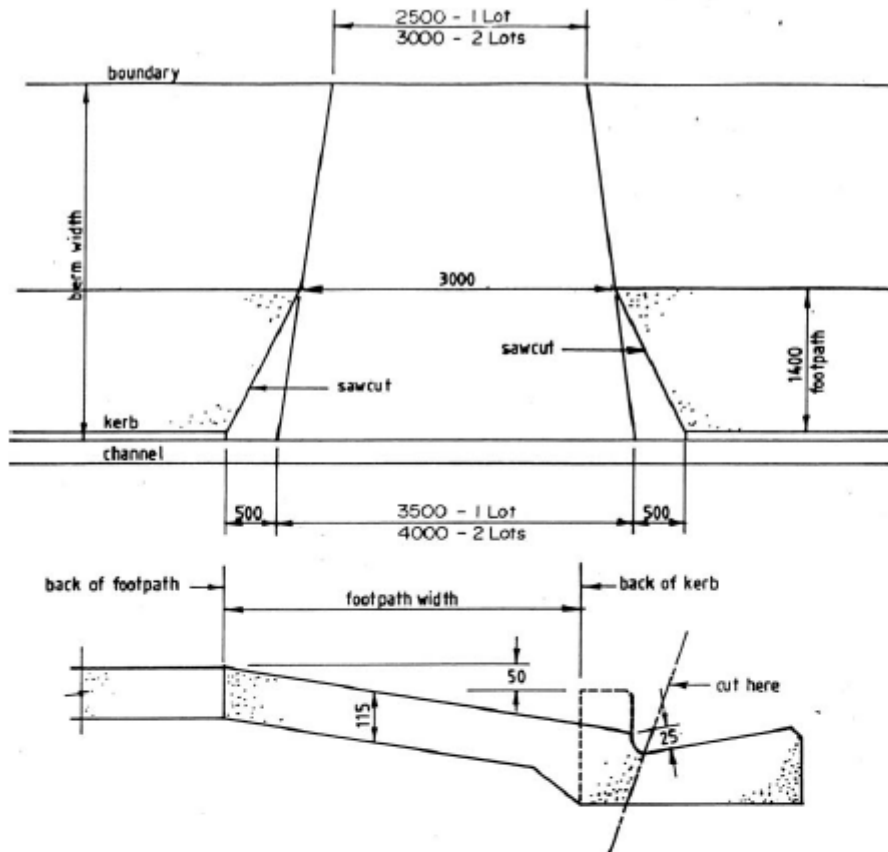


Notes:

1. The concrete including the new channel shall be 200mm thick and reinforced with one layer of hrc 665 mesh with 50mm cover from the bottom of the slab.
2. The concrete shall have a minimum crushing strength of 20MPa at 28 days and shall comply with NZS 3124:1987.
3. All existing footpath, kerb and channel are to be replaced and the crossing shall run continuously between the kerb and the property boundary.
4. If there is no existing footpath the contractor shall ensure that the work ties in with future footpath construction.
5. A 150mm thick concrete slab shall be constructed under the kerb and channel for all heavy industrial crossings.
6. The work shall be carried out in such a manner as to ensure the safety of road and footpath.


Dimension	Heavy Industrial Double Lane	Heavy Industrial Single Lane	Light Industrial Commercial Single Lane	Light Industrial Commercial Double Lane
A	7000	4500	3500	6000
B	10500	8000	7000	9500

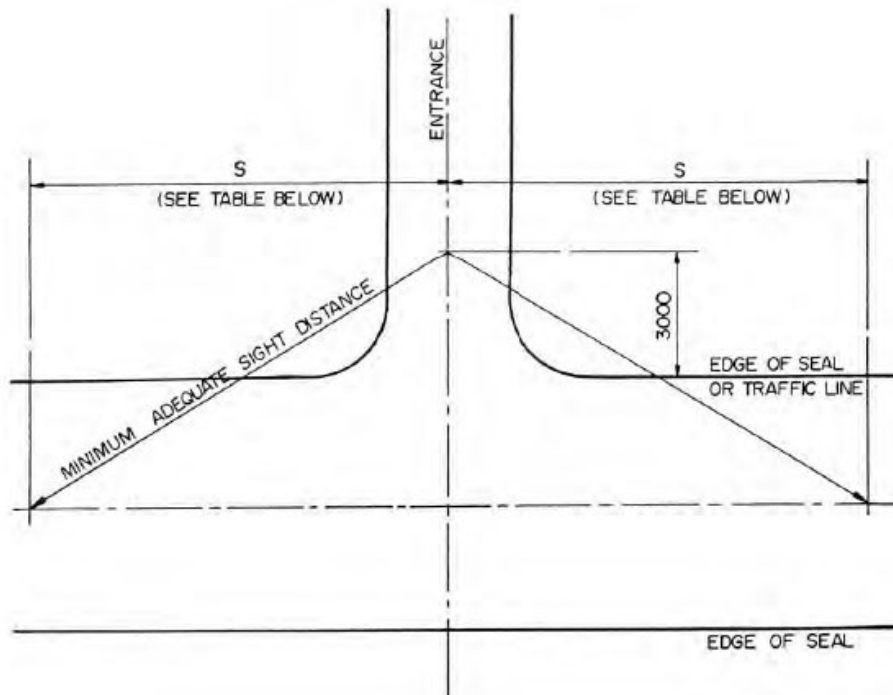
	Standard Drawings	<i>Not to Scale</i>
	Vehicle Crossing Industrial/Commercial	R 09



Notes:

1. All concrete shall be 115 thick, have a strength of 20.0 MPa and be wood floated to a smooth surface.
2. All existing footpath to be replaced unless specifically exempted by the Engineer and the crossing shall run continuously between the kerb boundary and the property boundary.
3. If there is no existing footpath the contractor shall ensure that the work ties in with the future footpath development.
4. The work shall be carried out in such a manner as to ensure the safety of road and footpath users.
5. Vehicle crossings shall be reinforced with hrc 665 mesh centrally placed. For more than 2 Lots refer to industrial/commercial Drawing R 09.
6. Vehicle crossings shall be in accordance with the NZ Transport Agency's Pedestrian Planning and Design Guide October 2009 (PPDG)
 - a) the maximum crossfall of the ramp shall be 2% (1:50), in accordance with Table 15.2 of the PPDG
 - b) the minimum width of a footpath shall be 1.65m, in accordance with Table 14.3 of the PPDG

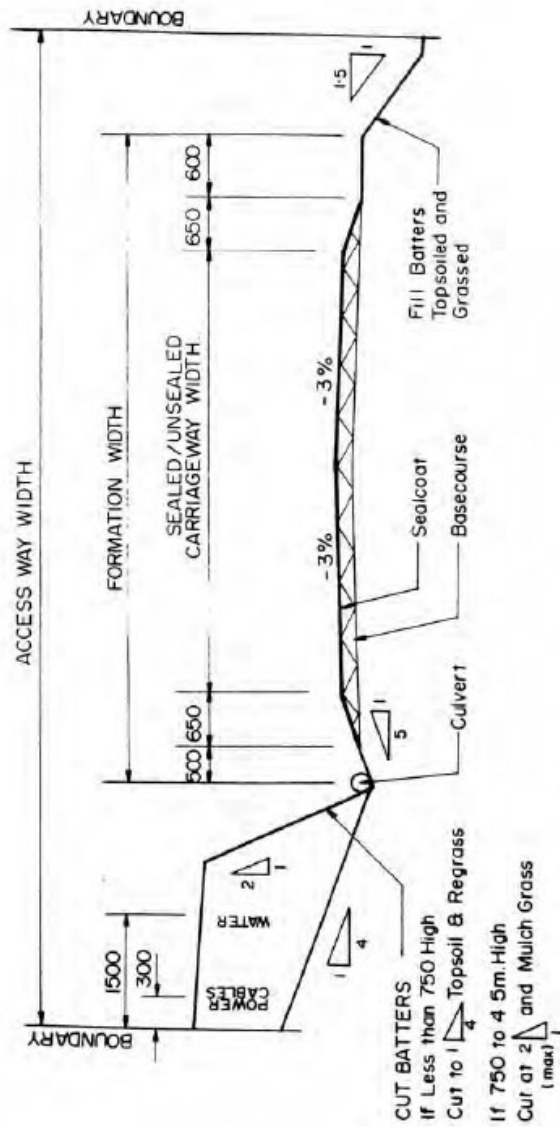
	Standard Drawings	<i>Not to Scale</i>
	Vehicle Crossing ~ Existing Residential Footpath Behind Kerb	R 10



Design Speed of Main Road Km/h	Safe Stopping Distance (M) S
30	35
40	45
50	60
60	75
70	95
80	110
90	125
100	145
110	185

	Standard Drawings	<i>Not to Scale</i>
	Sight Distances for Vehicle Entrances	R 25

Note: The Safe Stopping Sight Distances are only applicable to the Ōpōtiki District Local Road Network



STANDARD RURAL ACCESS WAY
MAXIMUM LENGTH 750m.

Refer to Drawing R 27 for Notes

Geometric Design will be in accordance with the "Guide to Geometric Standards to Rural Roads"


	Standard Drawings	Not to Scale
Standard Rural Accessways		R 26

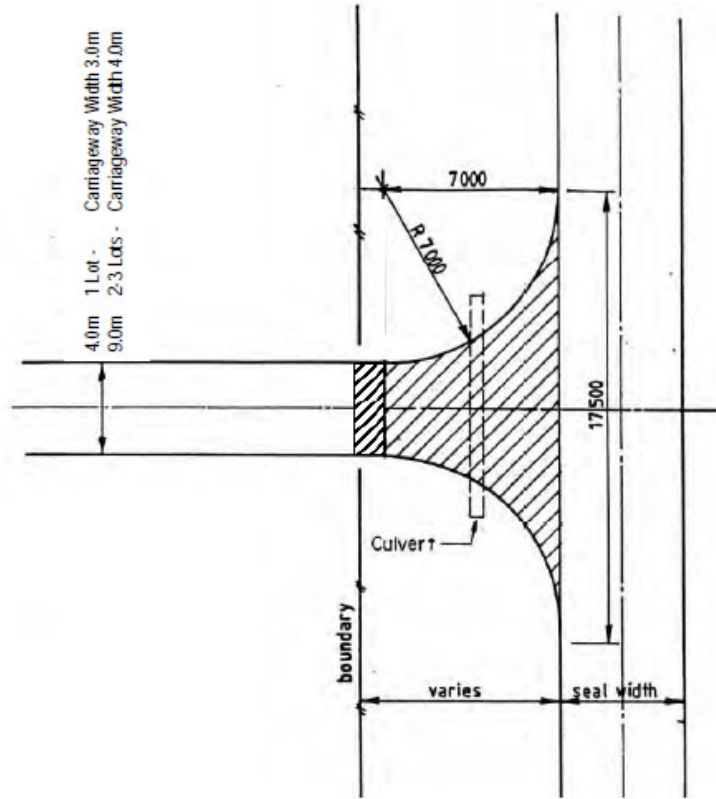
TABLE 1 – RURAL ACCESSWAY

No of Lots	Accessway Width *See Note 10	Carriageway Width	Metal Depth
1	4.0	3.0	100mm
2 - 3	9.0	4.0	
4 - 6	12.0	5.0 (sealed)	125mm

Notes:


- Passing Bays:** Shall be provided outside the minimum carriageway width at not more than 200 metre intervals. Passing Bays shall be large enough to enable a 90 percentile two axled truck to enter, park and exit in one manoeuvre. If the access serves all lots smaller than 1 hectare in size then the passing bay shall be constructed for the 90 percentile car.
- Visibility:** Minimum sight distances to be in accordance with Standard Drawing R 25.
- Dimensions:** Minimum dimensions are shown in Table 1. A grassed berm at least 2.5m shall be provided in one side of the carriageway for the provision of underground services.
- Access and Gradient:** The maximum carriageway gradient shall be 1 in 6 with the first 6 metres from edge of seal/metal at a gradient of 1 in 12. All lots relying on the access strip shall have a safe and practical access point to the formed carriageway to meet criteria herein.
- Subgrade:** Subgrade shall exclude organic or wet material and shall be trimmed and compacted. Minimum CBR 7.0 or 33mm blow with scala penetrometer.
- Basecourse:** Shall be GAP 40 or MAP 40 compacted to a dense state. Clegg impact value of 33 or better. Minimum compacted thickness shall be 100mm for unsealed access or 125mm for sealed access.
- Stormwater:** Provision shall be made for the collection and disposal of stormwater. All upstream catchment shall be provided for. Consideration shall be given to scour and/or silting. All culverts shall be 300mm dia minimum installed to manufactures recommendations.
- Sealcoat:** Shall be 2 coat chipseal Grade 4 (First Coat) and Grade 5 (Second Coat). Asphaltic concrete and cobblestone paving will be permitted subject to specific approval of details.
- Curves and Corners:** Minimum inside radius of curves shall be 9 metres.
- Accessway Width:** The legal boundary of the accessway shall include all cut and fill batters and passing bays and if necessary minimum dimensions in Table 1 shall be increased.

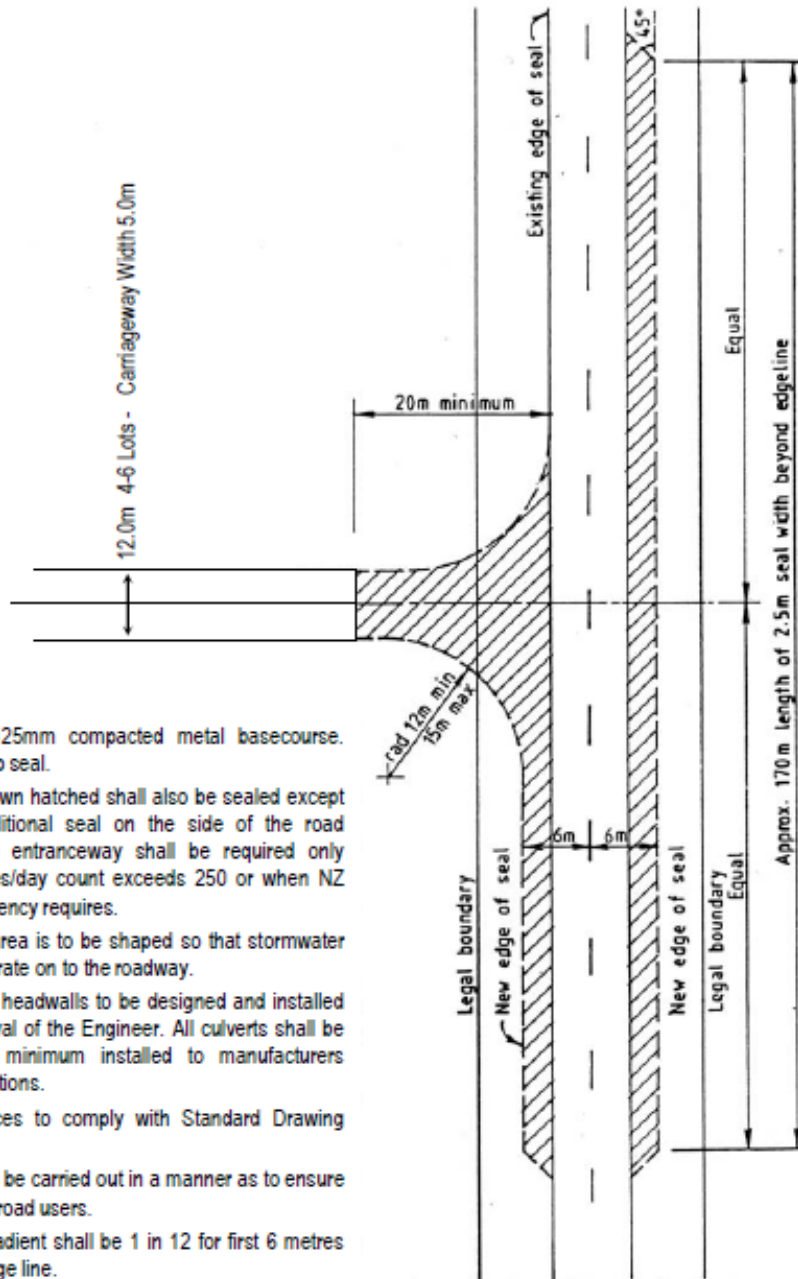
 Opotiki District Council	Standard Drawings	<i>Not to Scale</i>
	Standard Rural Access Strip	R 27



Notes:


1. Formation: 100mm compacted metal basecourse.
2. Where the road is sealed the entrance area (shown hatched) shall also be sealed. The sealed area is to be shaped so that stormwater does not migrate on to the Highway.
3. Culverts and headwalls to be designed and installed to the approval of the Engineer. All culverts shall be 300mm dia minimum installed to manufacturers recommendations.
4. Sight distances to comply with Standard Drawing R 25.
5. All work shall be carried out in a manner as to ensure the safety of road users.
6. Maximum gradient shall be 1 in 12 for first 6 metres from road edge line.
7. Refer also to Standard Drawing R 27.

 Opotiki District Council	Standard Drawings	<i>Not to Scale</i>
	Rural Vehicle Entrance (1 to 3 Lots)	R 28



Notes:

1. Formation: 125mm compacted metal basecourse. Two coat chip seal.
2. All areas shown hatched shall also be sealed except that the additional seal on the side of the road opposite the entranceway shall be required only when vehicles/day count exceeds 250 or when NZ Transport Agency requires.
3. The sealed area is to be shaped so that stormwater does not migrate on to the roadway.
4. Culverts and headwalls to be designed and installed to the approval of the Engineer. All culverts shall be 300mm dia minimum installed to manufacturers recommendations.
5. Sight distances to comply with Standard Drawing R25.
6. All work shall be carried out in a manner as to ensure the safety of road users.
7. Maximum gradient shall be 1 in 12 for first 6 metres from road edge line.
8. Refer also to Standard Drawing R 27

 Opotiki District Council	Standard Drawings	<i>Not to Scale</i>
	Rural Vehicle Entrance (4 or More Lots)	R 29

APPENDIX 5: Accidental Discovery Protocol

On any site it is possible that unrecorded archaeological sites are present below ground level and may be exposed by earthworks.

1. The following accidental discovery protocol applies:
 - a. If, at any time during site works, potential kōiwi, archaeology or artefacts of Māori origin are discovered, then all site works including earth moving machinery must stop to avoid adverse effects on the kōiwi, archaeology or artefacts of Māori origin
 - b. The site owner or the site manager must immediately advise the *Council* and the kaitiaki and kaumātua of the relevant iwi representatives and Heritage New Zealand Pouhere Taonga
 - c. The site owner or the site manager must secure the site until approval to proceed with work has been granted by *Council* in consultation with iwi representatives
 - d. Further work at the site must be suspended, should iwi representatives wish to carry out their procedures and tikanga for the site and the nature of the discovery
 - e. The site owner or the site manager must immediately arrange a site inspection by iwi representatives and their advisors and statutory agencies
 - f. The site owner or the site manager must ensure that representatives are available to guide those party to the site inspection through the site
 - g. The site inspection will determine whether the discovery is likely to be extensive and whether a thorough site investigation is required
 - h. Iwi representatives will determine the tikanga for appropriate preservation, management and handling of the kōiwi, archaeology or artefacts of Māori origin that are uncovered, which may include removal of the kōiwi, archaeology or artefacts of Māori origin from the site by Mana Whenua or preservation within the site
 - i. Preservation of the kōiwi, archaeology or artefacts of Māori origin that are uncovered may require amendments to the site works to avoid adverse effects on sites of significance to iwi representatives and Māori values
 - j. Work at the site must not recommence until approval has been granted by the council in consultation with iwi representatives.

2. Where kōiwi, archaeology or artefacts of Māori origin are uncovered during site works, the *Council* will work with iwi representatives to record the following information that will contribute to their knowledge base of their Māori cultural heritage:
 - a. site location
 - b. details of content
 - c. Carbon dating.

APPENDIX 6: Carparking provision guidance

This appendix applies to the Residential Zone, the Town Centre Zone, the Mixed Activity Zone, the Marine Services Zone and the Industrial Zone.

Where minimum parking rate requirements are not included in the relevant chapter, this appendix can be used for guidance on the number of carparks.

The dimensions and design standards for carparking are set out in Appendix 1.

Residential Zone

<i>Dwellings</i>	2 spaces per <i>dwelling</i>								
<i>Home occupations</i>	1 space per 15m ² of the site used for the activity								
<i>Visitor accommodation</i>	1 to 4 people - 1 space in addition to the <i>dwelling</i> requirement Over 4 people - 1 space per unit plus 2 for staff								
<i>Community activities</i>	1 space per 20m ² of net <i>site</i> area								
<i>Residential care facility</i>	1 space per 3 beds plus one space for every two staff employed on the <i>site</i> at any one time								
<i>Education facilities</i>	2 spaces for visitors plus adequate and reasonable provision for cars and buses to drop off and pick up students and: <table> <tr> <td>Preschool</td> <td>1 space per staff member</td> </tr> <tr> <td>Primary</td> <td>2 spaces per 3 staff members</td> </tr> <tr> <td>Secondary</td> <td>1 space per 20 students</td> </tr> <tr> <td>Tertiary</td> <td>1 space per 20 students</td> </tr> </table>	Preschool	1 space per staff member	Primary	2 spaces per 3 staff members	Secondary	1 space per 20 students	Tertiary	1 space per 20 students
Preschool	1 space per staff member								
Primary	2 spaces per 3 staff members								
Secondary	1 space per 20 students								
Tertiary	1 space per 20 students								
<i>Places of assembly</i>	1 space per 10m ² <i>total floor area</i>								
<i>Retail activities</i>	1 space per 15m ² <i>total floor area</i>								
<i>Commercial Activities</i>	1 space per 20m ² <i>total floor area</i>								
<i>Food selling premises</i>	1 space per 15m ² <i>total floor area</i>								
<i>Police stations</i>	1 space per 50m ² <i>total floor area</i>								
<i>Community corrections activities</i>	1 space for every 2 full time equivalent employees and 1 space for every 10 people the facility is designed to service.								
<i>Emergency Services</i>	5 spaces per emergency service vehicle bay								
<i>Seasonal worker accommodation</i>	1 space for every 6 people accommodated on site								

Town Centre Zone

<i>Retail activities</i>		1 space per 20m ² total floor area
<i>Commercial Activities</i>		1 space per 40m ² total floor area
<i>Service industries</i>		1 space per 50m ² total floor area
<i>Police stations</i>		1 space per 50m ² total floor area
<i>Emergency Service facilities</i>		5 spaces for every emergency service vehicle bay
<i>Residential accommodation</i>		1 space per dwelling
<i>Places of assembly</i>		1 space per 5 persons
<i>Visitor accommodation (1-4)</i>		1 space per unit
<i>Visitor accommodation (4+)</i>		1 space per unit plus 2 for staff
<i>Food selling premises</i>		1 space per 20m ² total floor area
<i>Education facilities</i>		2 spaces for visitors plus adequate and reasonable provision for cars and buses to drop off and pick up students and:
	Preschool	1 space per staff member
	Primary	2 space per 20 students
	Secondary	1 space per 20 students
	Tertiary	1 space per 20 students
<i>Community activities</i>	<i>corrections</i>	1 space for every 2 full time equivalent employees and 1 space for every 10 people the facility is designed to service.
<i>Seasonal accommodation</i>	<i>worker</i>	1 space for every 6 people accommodated on site

Reduction in carparking where on-site bicycle stands are provided, where the reduction is one carparking space for every five bicycle spaces, provided that:

- a. For employee parking, where the bicycle stand(s) is secure and well-lit, and shower facilities for staff are provided, the above dispensation rate can be doubled (i.e., 2 spaces per 5 bicycle spaces provided).
- b. The maximum reduction in carparking spaces under these provisions is 10% of the number of carparking spaces.

Mixed Activity Zone

<i>Dwellings</i>	2 spaces per <i>dwelling</i>
<i>Residential care facility</i>	1 space per 5 beds plus 2 spaces for staff
<i>Places of assembly</i>	1 space per 5 persons accommodated
<i>Visitor accommodation</i>	1 to 4 people, 1 space per unit Over 4 people, 1 space per unit plus 2 for staff
<i>Education facilities</i>	2 spaces for visitors plus adequate and reasonable provision for cars and buses to drop off and pick up students and: Preschool 1 space per staff member Primary 2 spaces per 3 staff members Secondary 1 space per 20 students Tertiary 1 space per 20 students
<i>Commercial Activities</i>	1 space per 40m ² <i>total floor area</i>
<i>Accessory retail activities</i>	1 space per 20m ² <i>total floor area</i>
<i>Food selling premises</i>	1 space per 20m ² <i>total floor area</i>
<i>Service industries</i>	1 space per 50m ² <i>total floor area</i>
<i>Tradesmen's depots</i>	1 space per 50m ² <i>total floor area</i>
<i>Vehicle and machinery sales</i>	1 space per 50m ² of display area
<i>Police stations</i>	1 space per 50m ² <i>total floor area</i>
<i>Community activities</i> <i>corrections</i>	1 space for every 2 full time equivalent employees and 1 space for every 10 people the facility is designed to service
<i>Emergency service facilities</i>	5 spaces for every <i>emergency service</i> vehicle bay

Marine Services Zone

<i>Marinas</i>	0.6 space/wet berth 0.2 space/swing mooring
<i>Retail activities</i>	1 space per 20m ² <i>total floor area</i>
<i>Commercial activities</i>	1 space per 40m ² <i>total floor area</i>
<i>Food selling premises</i>	1 space per 20m ² <i>total floor area</i>
<i>Service industries</i>	1 space per 50m ² <i>total floor area</i>
<i>Places of assembly</i>	1 space per 5 persons accommodated

Industrial Zone

<i>Industrial activities</i>	1 space per 50m ² <i>total floor area</i>
<i>Accessory retail activities</i>	1 space per 20m ² <i>total floor area</i>
<i>Commercial activity</i>	1 space per 40m ² <i>total floor area</i>
<i>Food selling premises</i>	1 space per 20m ² <i>total floor area</i>
<i>Service industries</i>	1 space per 50m ² <i>total floor area</i>
<i>Contractors' depots</i>	1 space per 50m ² <i>total floor area</i>
<i>Dwelling</i>	1 space per <i>dwelling</i>
<i>Places of assembly</i>	1 space per 5 persons accommodated
<i>Education facilities</i>	2 spaces for visitors plus adequate and reasonable provision for cars and buses to drop off and pick up students and
	Preschool 1 space per staff member
	Primary 2 spaces per 3 staff members
	Secondary 1 space per 20 students
	Tertiary 1 space per 20 students
<i>Police stations</i>	1 space per 50m ² <i>total floor area</i>
<i>Community corrections activities</i>	1 space for every 2 full time equivalent employees and one space for every 10 people the facility is designed to service.
<i>Cool Stores</i>	1 space for every 500m ² <i>total floor area</i> .
<i>Emergency service facilities</i>	5 spaces for every 1 emergency vehicle bay
<i>Seasonal worker accommodation</i>	1 space for every 6 people accommodated

Appendix 7: Deer Fencing Standards and Goat Farming Fence Standards

Deer Fencing Standards

1. Minimum fence height above ground
2m.
2. Line wires
All line wires fastened to inside of posts with the exception of angle posts.
3. Wire spacings
Minimum of 8 wires up to 1.2m high, maximum of 150mm apart.
Minimum of 5 wires above 1.2m high, maximum of 250mm apart.
4. Height above ground to first wire
No greater than 75mm.
5. Batten and stay wire spacings
 - (a) Netting
Maximum 300mm up to 1.2m high. Above 1.2m maximum 800mm. No hinge joint netting with stay wire spacings greater than 200mm to be used for up to 1.2m in fence height.
 - (b) Battens
Maximum 600mm apart (fallow);
Maximum 800mm apart (other deer species).
6. Wire gauge
2.5mm galvanised high tensile or wire equal to or of greater tensile strength.
7. Post spacings
Maximum 5m.
8. Post sizes
 - (a) Rounds – minimum 100mm small end diameter
 - (b) Half rounds – 175mm minimum face width
 - (c) Quarter rounds – 100mm smallest face width; or

- (d) A post length of 2.7m or the operative New Zealand Deer Farmers Industry Standard, whichever is the more stringent.
9. Strainer posts
- (a) Rounds - Minimum of 175mm small end diameter; or
- (b) Minimum post length of 3.0m.
10. Strainer distances
- Maximum of 400m.
11. Stays
- Minimum of 120mm small end diameter and minimum length of 2.7m. Tie backs and internal angle stays are acceptable.
12. Footings
- Responsibility of person erecting the fence to use suitable footings according to soil types and other soil conditions.
13. Top-up fences
- Base fence must be in a sound condition, contain minimum of 8 line wires up to 1.2m with maximum wire spacings no greater than listed above. Every second post in the base of the fence will be a deer fence post. All strainer posts will be subject to the requirements above.
14. Gates
- (a) **Timber** - minimum *height* of 1.9m. Rails minimum 100mm x 25mm. Three uprights (one centred) and two diagonal stays on each side of gate. Minimum of M10 bolts to be used. Rail spacings to 0.2m high maximum 100mm apart. Above 1.2 maximum 150mm apart.
- (b) **Steel** - minimum *height* over frame of 1.9m, minimum wall thickness of 3mm. Internal diameter 25mm. Gate covered with chain link of maximum aperture of 75mm and minimum wire gauge of 3.15mm. Mesh should be laced with minimum 2mm gauged wire. Hardfill under all external gates.
15. Gate hinges
- Hinges and gudgeons to be a minimum of 20mm diameter. One hinge reversed or otherwise constructed to prevent the gate from being lifted off.
16. Gate Locks
- Must comprise a sturdy chain and padlock.

17. Hanging Gates

Hung gates must butt against the full inside surface of the latching post and open inwards.

18. Flood Gates

Fences across streams and waterways shall require a floodgate that does not allow deer to pass through. Flood gates across culverted water courses shall be on the downstream side of the culvert.

19. Staples

- (a) **Post** – minimum of 50mm in length and minimum gauge of 4.0mm
- . **Batten** – Softwood minimum of 30mm in length and minimum gauge of 3.15mm
- . **Hardwood** – minimum of 27mm x 2.8mm
- (b) Steel fasteners for concrete posts can be used.

20. Netting

No hinge joint netting with spacings greater than 200mm. Stay wire spacings shall be used below 1.2m in *height* above ground level.

Goat farming boundary fence standards:

1. Bulldozed line or benching or some other method, if required, to ensure that the bottom wire is no more than 70mm above ground level.
2. Nine wire post and batten fence, to be kept tight at all times, with no internal or external stays.
 - (a) Minimum high tensile 2.5mm diameter galvanized steel
 - (b) Bottom wire should be placed at 70 mm above ground level and, above that, wires placed at the following intervals – 100, 100, 100, 110, 120, 135, 150 and 165mm
 - (c) The top wire should be approximately 50 mm below the top of the post.
3. Bottom wire shall be barbed wire instead of high tensile wire where the fence is situated on land subject to erosion.
4. Posts to be at the following intervals:
 - (a) less than 30 degrees ground slope: 5m
 - (b) 30 degrees to less than 45 degrees: 4m
 - (c) 45 degrees or more: 3m
5. Battens to be at 1m intervals

6. All fences regularly checked and maintained to the above standards

7. Fences across streams and waterways shall require a floodgate that does not allow goats to pass through. Floodgates shall be constructed of H3 treated 100mm x 50mm timber suspended from an overhead wire or rail in such a way that the spacings will allow the passage of water but will not allow stock including goats to pass through. A cross-bar shall be positioned in the top third of the floodgate. Wire netting will not be used in floodgate construction.

8. Fences along watercourses shall be constructed alongside the *waterbody* with an appropriate setback to avoid possible slumping which may cause a breach of the fencing standard.