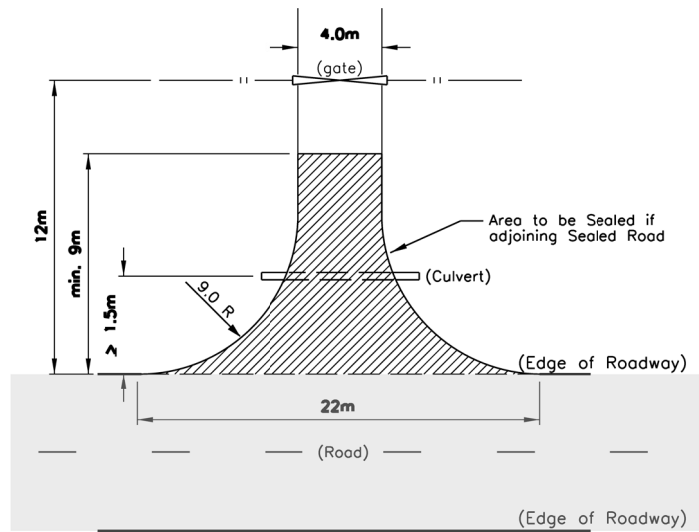
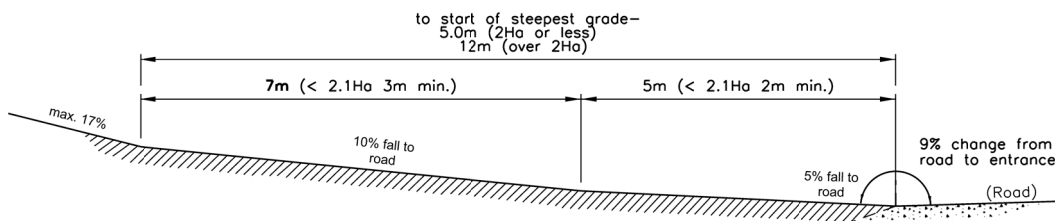


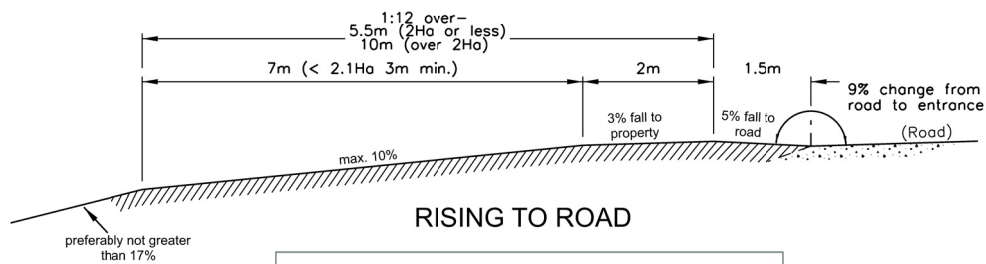
Appendix 4: Vehicle Entrances- Rural



ENTRANCE (over 2.0Ha to 20Ha)



FALLING TO ROAD

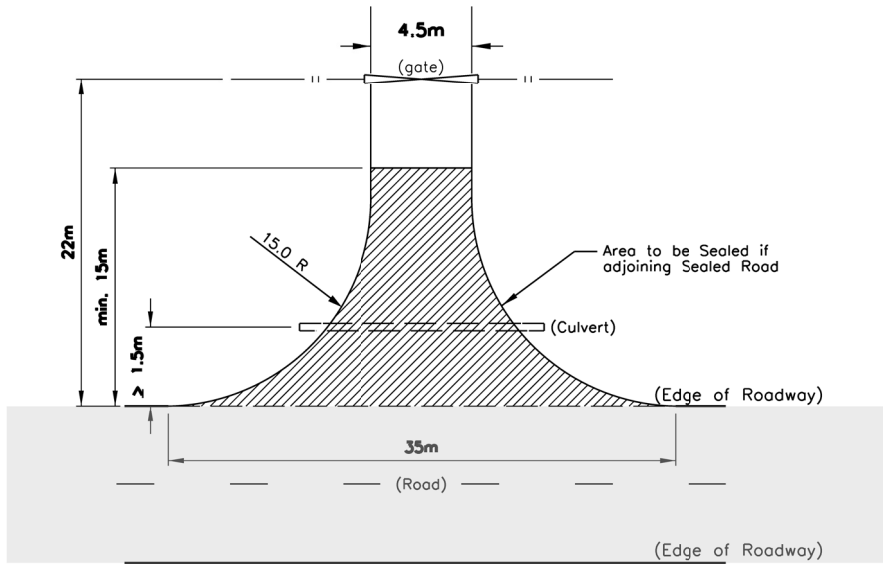


RISING TO ROAD

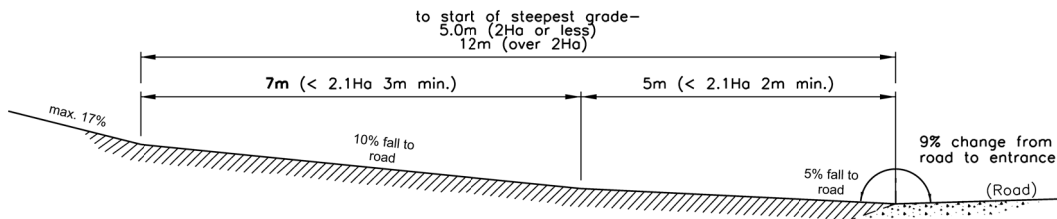
Commercial/Rural over 2Ha

PAVEMENT CONSTRUCTION DETAILS	Rural over 2Ha to 20Ha	ASPHALT SURFACING	CHIPSEAL SURFACING
		<p>Pavement Depth = 250mm CBR > 10</p>	<p>Pavement Depth = 250mm CBR > 10</p>

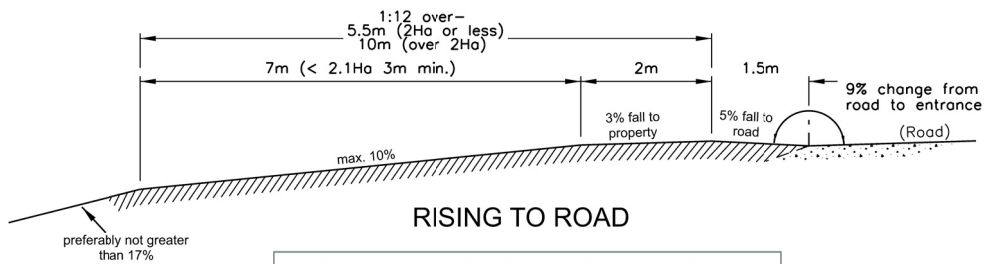
Appendix 4: Vehicle Entranceways- Rural



ENTRANCE (over 20Ha)



FALLING TO ROAD

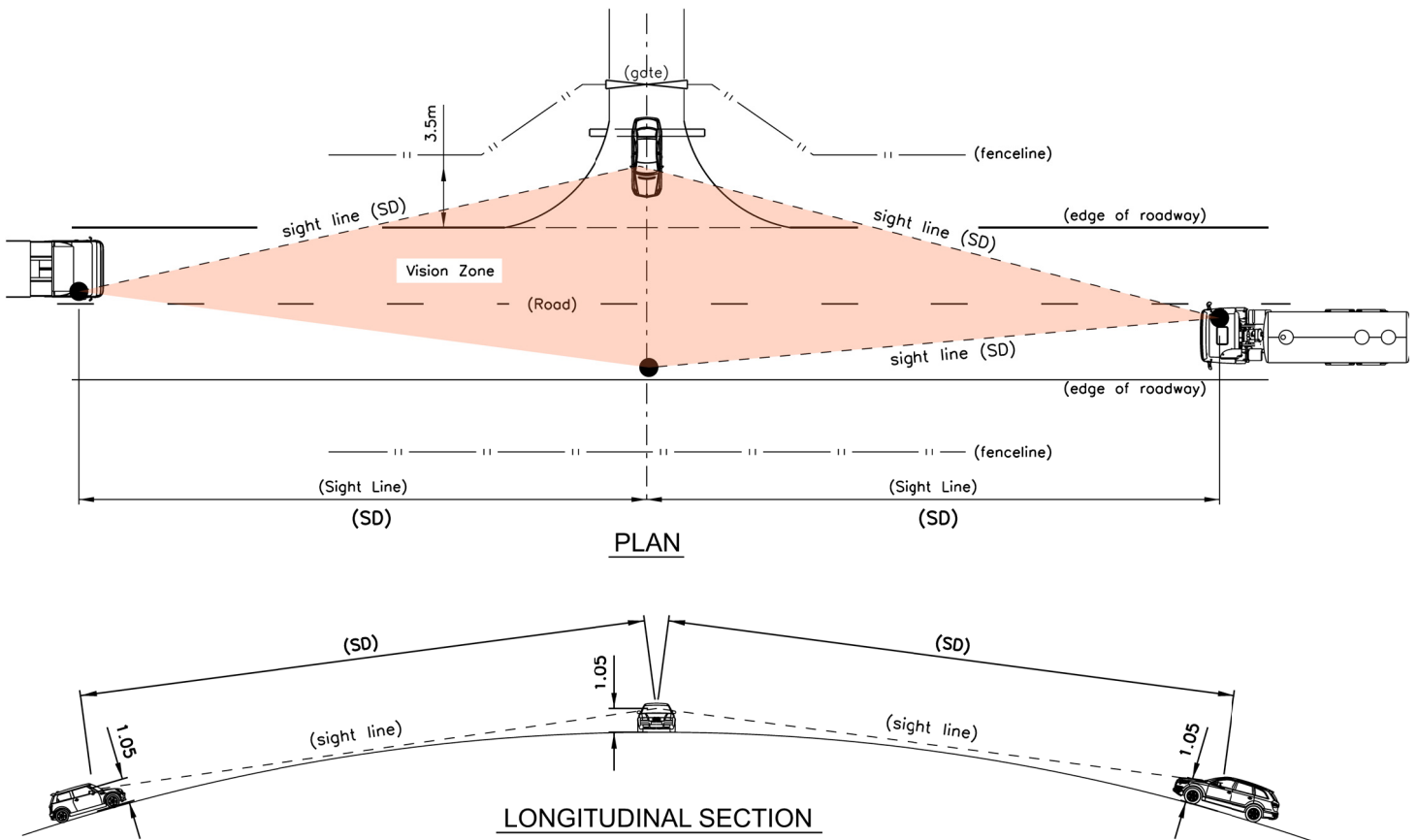


RISING TO ROAD

Commercial/Rural over 2Ha

PAVEMENT CONSTRUCTION DETAILS	Rural 20Ha and over	ASPHALT SURFACING	CHIPSEAL SURFACING
		<p>Pavement Depth = 300mm CBR > 10</p>	<p>Pavement Depth = 300mm CBR > 10</p>

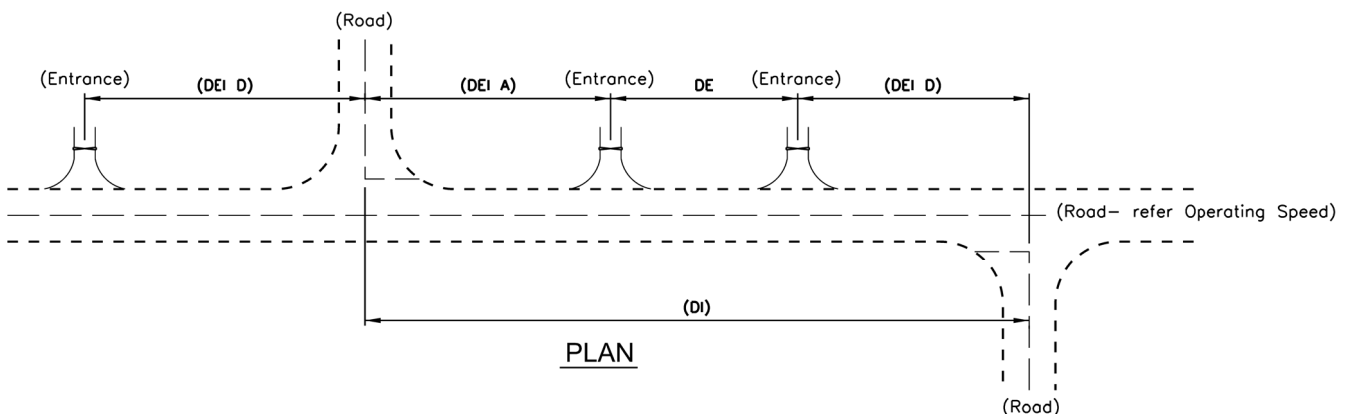
Appendix 5: Rural Entrance Sight Visibility and Separation Distances



Operating Speed	Minimum Sight Distance in any direction (SD)	Distance between Entrances (DE)	Distance between Entrances & approach to an Intersection (DEI A)	Distance between Entrances & departing an Intersection (DEI D)	Distance between Intersections (DI)
50	44	15	20	30	150
60	63	20	50	50	200
70	86	40	100	100	400
80	115	100	120	120	800
90	140	150	160	150	800
100	170	200	200	200	800

NOTE: Column 'Minimum Sight Distance in any direction (SD)' applies on Sealed Roads to vertical grades below 4%

ENTRANCES- RELATED DISTANCES FOR SIGHT & PLACEMENT



ENTRANCEWAYS AND INTERSECTION SEPARATION DISTANCES DIAGRAM

Appendix 4: Vehicle Entrances- Notes

1.0 GENERAL

- 1.1 ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING NOTES AND TO THE SATISFACTION OF THE ENGINEERING MANAGER.
Additional requirements to those provided for a particular location may be required and will be determined on site by the Engineering Manager.
- 1.2 The Contractor shall be responsible for traffic control while undertaking work within the road reserve.
All signage to be in accordance with Waka Kotahi Transit New Zealand's NZGTTM for vehicle counts over 500vpd; and COPTTM's Local Road Supplement (LRS) for vehicle counts up to 500vpd.
- 1.3 The Contractor shall be responsible for the cost of repairs to any utility services damaged during construction.
Any damage shall be rectified to the satisfaction of that Utility Owner.
- 1.4 A Residential Vehicle Entrance is considered adequate to accommodate a 5m long car turning into a property at the minimum radius of 7.5m.
- 1.5 The centreline of the entrance formation meeting the carriageway shall not exceed angles over 30 degrees from the perpendicular to the road centreline.

2.0 LOCATION

- 2.1 Each entrance shall be located to provide clear sight distance in both directions in accordance with Appendix 5: Entrance Sight Visibility and Separation Distances.
- 2.2 Separation distances shall be as indicated in ('Appendix 5: Entrance Sight Visibility and Separation Distances').

3.0 CULVERT

- 3.1 If an entrance crosses a public drain the Contractor shall notify Otorohanga District Council who will advise the correct culvert diameter.
- 3.2 Where an entrance crosses a watertable or small drain (less than 2m wide by 1m deep), a 300mm diameter minimum Reinforced Concrete Rubber Ring Joint (R.C.R.R.J.) class X pipe shall be installed.
- 3.3 Any unsuitable bedding material including vegetation, topsoil and peat shall be removed and replaced in accordance with the pipe manufacturer's specifications.
- 3.4 All culverts shall be laid straight at a constant grade, a minimum of 1.5m from the edge of carriageway.
The socket end shall always be uphill.

4.0 SUBBASE

- 4.1 A minimum CBR of 5% is required before placement of sub-base material. If this CBR cannot be achieved, Council's roading staff can advise how to proceed.
This may involve an additional depth of pavement construction, or the installation of geosynthetics.
- 4.2 Pit sand, brown rock or similar material shall be placed, trimmed and compacted to provide 150mm depth of subbase if required. The subbase shall be placed from the edge of the carriageway to the gate or cattlestop.

5.0 BASECOURSE

- 5.1 GAP40 basecourse metal complying with TNZ: M4 & M3 notes, shall be placed, trimmed and compacted to the depth of basecourse as specified in the Table 'PAVEMENT CONSTRUCTION DETAILS' for the total area shown in the Entrance Diagram applicable.
- 5.2 Basecourse material shall be trimmed to provide a crown in the centre of the entrance to ensure adequate surface drainage. The crossfall shall be between -3% to -5% from the crown.

6.0 SURFACING

- 6.1 Each entrance off a sealed road shall be surfaced with a two coat bitumen/chip seal as the minimum surfacing standard. The surfacing shall be constructed with 180/200 grade bitumen and Grade 3 and 5 chip.
Area of seal is to comply with the Entrance Diagram applicable.
- 6.2 If the entrance is off a metal surfaced road, NO additional surfacing over the basecourse material will be required. (sealing is not required)
- 6.3 Rural entrances shall not be constructed from concrete because of added expense for Council when carrying out maintenance activities.