

Grid & Exclusion Fencing Policy

Approved: 22 March 2018

Scope

This specification covers the construction and maintenance of stock grids, exclusion fencing and associated items across Local roads. The specifications set out in this document may vary from time to time to reflect changes by various regulatory authorities, including Council.

Submission of Plans

Detailed descriptions and drawings of the proposed work, including all traffic control plans, shall be submitted to the Council and the work shall not be commenced until approval has been received from Council.

Provision for Traffic

- a) The Applicant shall not obstruct traffic and shall be held responsible for the safety of traffic and shall provide all accredited traffic control officers, lights, barriers, signs and fences necessary to prevent any accident or public or private damage or loss and to regulate traffic during the process of work. The Applicant shall provide for traffic by its diversion to an alternative route approved by the Council or by the formation of side tracks alongside the work. The Applicant shall not by his operations obstruct any side road or branch track nor shall he break down any fences, service lines nor obstruct any drain or watercourse.
- b) All arrangements for the control of traffic shall be in accordance with Department of Main Roads Manual of Uniform Traffic Control Devices, and carried out by an accredited worksite traffic controller.
- c) The Applicant shall exercise great care during the progress of the work to avoid damage to any utility services, (water, sewer, electric power, telephone etc.) within the limits of the work and will be held responsible for any such damage caused by him or his Agent directly or indirectly. The applicant shall contact all service providers and arrange location of utilities.

Owner's Liability for Injury to adjoining Lands & Property

The owner shall protect all adjoining properties and owners thereof against any loss, damage or injury that may occur through the carrying on of the works, whether to buildings, goods, property of any kind, livestock or to persons and if any such injury, loss or damage does occur the Applicant shall make full compensation and shall make good all or any such loss, damage or injury or if any such loss, damage or injury is recovered against the Council in the first instance the Council may recover all costs which they may have been ordered to pay and all costs reasonably incurred in contesting the claim for such loss, damage or injury from the owner.

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Insurance

- a) The Applicant shall effect Public Liability Insurance cover providing indemnity of not less than \$10,000,000.00, against any legal liability of the Applicant or the Council (if any) in respect of claims for damages to persons or property in or about the works.
- b) The Applicant shall provide initial proof of Public Liability Insurance cover indemnifying the Council and having noted on the Policy an undertaking of the insurer to notify Council if the Policy is amended or not renewed.
- c) If it is necessary for the applicant to employ workmen to carry out the works or if the works are carried out by an Agent of the Applicant and such Agent employs workmen then the Applicant or his Agent shall from the commencement of the work effect insurance with an Insurance Office to the extent of his full liability and the liability of the Council (if any) any Act for the time being in force relating to workmen's compensation, covering all workmen employed in connection with the work.

Construction and Maintenance of Stock Grids

General

The stock grid shall be precast in construction with the Certification by a structural engineer being presented to Council for verification prior to its installation.

a) Design loading

All components shall be designed in accordance with standard loadings HS20-44 and the associated predicted traffic loadings for that public road. The design must be Certified by a structural engineer.

b) Minimum width

The minimum widths of new or replacement stock grids shall be as follows:

- Roads with a carriageway width (shoulder to shoulder) of more than 4.0m to have double (2 x 4.0 metre wide) grids x 2.4 metre span with concrete abutments and 2 x 3.6 metre (12') wide steel swinging gates.
- Roads with a carriageway width (shoulder to shoulder) of 4.0m or less and having a low traffic count may install a single grid (subject to approved from council) of 4.0 metres wide with concrete abutments and 2 x 3.6m (12') wide swinging gates.

c) Wings

Sloping wings shall be provided at each end sloping 25° away from vertical, for 735mm vertical height above the grid and a sighting plate with surface area facing approaching vehicles of 0.377m². Materials and construction details shall be provided on the approved drawings.

In order to increase the visibility of the structure, all wing components shall be painted white.

d) Exclusion Fence Wings

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Wild dog exclusion fence wings shall be provided at each end of the grid or crossing to Queensland Department of Transport & Main Roads Standard (South West District – Vermin & Dog Fencing General Layout – SWD-004).

e) Warning Signs

For all grids the following signs shall be erected, and at all times meet the minimum standards set down in AS/NZS 1906.1:1993- Class 2 reflectivity

- Two (one on each approach) W5-16A "GRID" warning signs (Owner responsibility), erected 120m in advance of a double width grid; or Two (one on each approach) W5-32A "ONE LANE GRID" warning signs (Owner responsibility), erected 120m in advance of a single width grid.
- Four (one on each wing sighting plate) D4-3A width markers (Owner's responsibility).

NOTE: The Council reserves the right to alter the size of the signs and signage responsibilities prescribed above.

f) Sight Distances

To accommodate for minimum stopping distances a clear line of sight of no less than 175m either side of the motor by-pass shall be maintained, unless otherwise advised in writing by the Council's Engineer. This requirement takes into account the relative position of other road structures, earthworks, roadside furniture and vegetation, as well as the horizontal and vertical alignment of the road.

g) Abutments

The owner of the grid is responsible for the satisfactory state of repair of the roadway, either side of the grid for a distance of five (5) metres in each direction.

Maintenance of Gates and Exclusion Fencing

The owner of the gate and exclusion fencing is responsible for the satisfactory state of repair of the gate and exclusion fence and signage.

Warning Signs

For all gates the following signs shall be erected, and at all times meet the minimum standards set down in AS/NZS 1906.1:1993- Class 2 reflectivity:

- a) Two (one on each approach) W5-14 "GATE" warning signs (Owner responsibility), erected 120m in advance of a gate.
- b) Four (two on each gate post) D4-3A width markers (Owner responsibility).

NOTE: The Council reserves the right to alter the size of the signs and signage responsibilities prescribed above.

Earthworks and Road Formation

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Where redesigned approach grading has been approved, the earthworks, road formation, shoulders and table drains on the approaches shall be constructed to the levels set by council.

Longitudinal Drainage and Shoulders

Provision shall be made for longitudinal drainage of the road to the satisfaction of the Council's Engineer, irrespective of whether provision for such drainage is made in the approved drawings.

Roadworks

Where required by the Council's Engineer all associated road works shall be constructed at the Council's expense to the approved drawings. All materials used shall be approved by the Council's Engineer.

Supervision of Works

- a) The whole of the works are to be carried out to the entire satisfaction of the Council. The Applicant shall at all times give uninterrupted access and afford every facility for the supervision and examination of any works or materials for these works that may be demanded by the council at any place where the said work or materials are being prepared and at any time. The Applicant shall give the Council all particulars as to the mode and place of manufacture and source of supply of any of the materials to be used in connection with the work if so required by the Council.
- b) The Applicant shall at the request of the Council submit any materials or work for testing and shall when required by the Council open up and supply samples of any work which shall have been covered in, whether the same has or has not been examined or inspected by Council previously. Costs incurred in removing such materials from the works or in making good the works after such removal shall be borne by the applicant if it is proved that the materials so removed do not comply with these Specifications.

Removal of Bad Materials or Improper Works

- a) If at any time during the progress of the works, Council is of the opinion that any materials or work whether fixed or not are inferior or improper, Council may direct in writing the removal or amendment of the same by the applicant and the Applicant shall be bound to comply with such direction within twenty-four hours and at his own expense to remove or amend the said materials or work, and to replace or amend the same with materials or work to the satisfaction of the Council.
- b) If the Applicant refuses to comply with such direction the Council may have such materials or work removed and replaced or amended same at the Applicant's expense.

Cleaning Up

The Applicant shall clean and leave tidy the whole of the works as the works proceed and upon the completion of the works shall remove all plant, old materials and surplus earth as well as all rubbish that may accumulate in executing the works and leave the area of the works in a clean and tidy condition. Cleaning up of the works shall be completed within 14 days of the final inspection of the site by Council Officers.

Maintenance

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The grid (motor by-pass) and associated fencing and gates on the road reserve are to be maintained by the Applicant in such order that no damages shall be caused to the road or road users. Any damage to the structure suffered at the hands of persons or vehicles using the road shall be made good by the Applicant at no cost to the Council.

Guidelines for the Care and Maintenance

Broken Rails	1 Rail: To be replaced within 48 hours More than 1: To be replaced immediately
Loose rails	To be repaired within 7 days Signposts
Signposts	Class 2 reflective material To be repaired within 15 days
Delineation	Minimum delineation requirements including that ramp wings, side rails and posts must be painted white, to enable night time identification.
Wings/Exclusion fence	Must be repaired within 10 working days

Construction

The straining posts affixed to the ramp shall be no closer than:

- 8 metre ramp: 7 metres to the centre of the road
- 4 metre ramp: 3 metres to the centre of the road

The grate structure should have no more than 20mm movement when affixed to the base. Movement exceeding 20mm will be addressed on each individual basis.

Exclusion fence wings must be constructed 7mtrs or 8mtrs from the centre line of the road dependant on location and road design.

Exclusion fence wings must be made out of materials and constructed in accordance with the Queensland Department of Transport and Main Roads Specifications (Collapsible) and to ensure duty of care to the travelling public.

Review

The policy will be reviewed annually or as required when standards change.

Approval

The Grid and Exclusion Fencing Policy for the Balonne Shire was approved at Council's General Council Meeting, on 22 March 2018.