

| TNZ C20 NOTES: 2003

**NOTES FOR THE SPECIFICATION FOR THE ERECTION AND
MAINTENANCE OF TRAFFIC SIGNS, CHEVRONS, MARKERS AND SIGHT
RAILS**

| *These notes are for the guidance of Transit New Zealand's (Transit's) staff and Consultants only and must not be included in Contract documents.*

1 SCOPE

| Transit's quality assurance requirements are to be applied to all contracts which include the supply and erection of permanent traffic signs, frames and fittings which are let after 1 July 1995 either by Transit or local authorities that control state highways under agreement. Tenderers will be required to provide evidence of certification which covers the manufacture of traffic signs, frames and fittings.

The requirements do not apply to the supply of marker posts, traffic sign posts, and raised pavement markers.

| Compliance with the *RSMA Compliance Standard for Traffic Signs* must be demonstrated either by reference within the system certification document itself, or by an additional scoping statement issued by the JAS-ANZ accredited agency for those suppliers who already hold NZS ISO 9002 certification. However, since Transit only wishes to apply the quality assurance requirements to state highway contracts, manufactures are at liberty to use the element Contract Review in their quality manuals to clarify that compliance with the Standard is only required by Transit for state highway work.

Gantries and overhead signs are non-standard and construction of these is best dealt with on an as-required basis.

2 RESPONSE TIMES

Response times required by the Engineer should be shown in a separate schedule in the Contract documents according to the particular traffic requirements and location.

Suggested response times are:

2.1 Emergency Work

- a. Signs and Chevrons (including posts)
 - All regulatory signs and chevrons - 48 hours from time of damage
 - All other signs - 2 weeks from time of damage

- b. Sight Rails, Bridge End Markers and Obstruction Markers
To be reinstated in a temporary safe condition or replaced within 48 hours from time of damage.
Reinstatement to be completed within two weeks from time of damage.
- c. Report to Engineer within 24 hours of each emergency replacement required.
- d. Culvert markers - within 2 weeks of receiving a request from the Engineer.

2.2 Routine Inspection Frequency

- a. Group 1 roads - maximum interval of three days
- b. Group 2 roads - once per week with a maximum of eight days
- c. Group 3 roads - once per week with a maximum interval of ten days
- d. Group 4 roads - once per two weeks within a maximum interval of sixteen days.

3 MATERIALS

The *RSMA Compliance Standard for Traffic Signs* allows signs to be manufactured from a variety of materials.

Timber sight rails have been specified. In certain circumstances other materials eg plastic or metal may be acceptable.

4 INSPECTION AND MAINTENANCE OF EXISTING ITEMS

Where the Engineer has observed that there are items missing and they have not been reported by the Contractor, those items should be added to the list of work to be done, so that they can be attended to.

While the Contractor is required to report promptly, it is equally important for the Engineer to react promptly so that items are missing for the shortest possible period only.

5 BASIS OF PAYMENT

Where signs etc are damaged or need repairing it is suggested this be paid for as show in the Basis of Payment ie include a Provisional Sum in the schedule of quantities for the net cost for supply of signs etc plus an allowance for the Contractor's on cost. This way it is not necessary to specify each type of sign that may be required during the Contract period.

The Engineer shall ensure that all signs are purchased by an acceptable competitive pricing procedure.

The Engineer should schedule signs, guard-rails and sight rails that may require repainting during the contract.

6 ASSET LIST

An asset list of existing signs, chevrons and sight rails will have to be included in the Contract document to enable tenderers to evaluate the cost involved in inspecting and maintaining these signs. It is considered that Route Data Sheets be provided for this purpose, or where available a copy of the RAMM Traffic Facilities file.

SPECIMEN SCHEDULE

Item	Description	Unit	Quantity	Rate	Amount
1	Inspection and maintenance of sign, chevrons, sight rails and markers	LS			
2	Supply new or replacement signs, chevrons, markers and posts (Provisional Sum)	PS			
2.2	Percentage on-cost on item 2.1% on \$....			%	\$
3	Install new or replacement post	ea			
4	Erect on post complete:				
	a. Sign excludes supply	ea			
	b. Chevron excludes supply	ea			
	c. Markers excludes supply	ea			
	d. Sight rails includes supply of rail	m			
5	Print existing sight rail or guard rail	m			
6	Clean signs and chevrons	ea			