



## NOTES ON THE SPECIFICATION FOR THE MAINTENANCE OF HIGHWAY LIGHTING

### 1. GENERAL

These notes are for the guidance of Supervising Officers only and must not be included in the contract documents. NZTA Specification C1 should be used in conjunction with this specification.

### 2. DRAWINGS AND RECORDS

The Engineer will be required to provide to the Contractor adequate as-built drawings of lighting and cabling layouts and particularly ESA control points. The maintenance of these records from the Contractor's inspection reports is the responsibility of the Engineer.

If the as-built drawings are not held by the Road Controlling Authority these must be obtained. A possible source might be the ESA.

Details of all lantern and lamp types, including their locations, should be provided as part of the tender documents.

### 3. ROAD CONTROLLING AUTHORITY/ESA OWNED EQUIPMENT

The current highway lighting system may be closely linked with a particular ESA's lighting circuits and independent sections of solely Road Controlling Authority owned equipment and cabling may be initially difficult to define. However, the Road Controlling Authority is required to obtain competitive maintenance tenders and the Engineer should consider working towards achieving independent sections of solely Road Controlling Authority owned circuits.

The Engineer shall schedule all columns, lanterns, and equipment that are owned by the Road Controlling Authority.

### 4. PLANNED REPLACEMENT

Planned replacement of equipment (replacement of rigid columns with frangible columns for example) during the contract period shall be stated in the Contract documents.

### 5. COLUMN HOLDING DOWN BOLTS

In some areas more frequent checking or torque checks may be specified by the Engineer.

### 6. CLEANING

Where lighting falls below the design standard required due to environmental conditions regular cleaning may be specified by the Engineer.

## 7. REPLACEMENT OF LAMPS

The Engineer should specify the replacement cycle required for lamps, depending on the time since completion of the last cycle and the lamp type. In general lamps should be replaced (and cleaned) on the following basis:

MV	- replace after three years use
SOX	- replace after 18 months use
Single fluorescent tubes and starters	- replace after 12 months use
SON, FT	- replace on failure only.

## 8. NUMBERING OF COLUMNS

Should the Engineer require an initial numbering of columns the requirement should be scheduled separately.

## 9. REMEDIAL WORK

The Engineer must identify all locations that do not meet the standards expected of the Contractor. These locations must be raised to these standards prior to enforcement of contractual obligations under this contract.

## 10. COLUMNS

Replacement columns should be frangible (in line with the NZ Transport Agency's State Highway Policy and Procedure manual section 4.19.2(2)).

