



**Information  
Services  
Corporation**

**POLICY AND PROCEDURE**

**Number  
GO-06/002**

**Page**

1 of 1

**Owner/Manual  
Surveys and Mapping**

**Section**

**Last Revision**

**Policy Name  
Accuracy Standards  
Angular and Linear Closures**

**Effective Date  
May 31, 2006**

**Revised Date**

**Policy Statement:**

For new surveys consisting of the **surveyor's own work**, the minimum accuracy standard expressed, as a misclosure must be 1:5000. When very short sites or small closures are involved, the minimum accuracy standard expressed as a misclosure must be the greater of 1:5000 or a distance of 0.02 metres.

The maximum angular misclosure, within a surveyor's own work, shall be 10 seconds times the square root of the number of angles measured (n) in the traverse ( $10\sqrt{n}$ ). In situations involving a parcel with a large number of angles, a smaller angular misclosure may be required to meet the 1:5000 ratio requirement.

Examples: a parcel/traverse with 4 angles:  $10 \times \sqrt{4} = 10 \times 2 = 20$  second allowable non-closure  
a parcel/traverse with 8 angles:  $10 \times \sqrt{8} = 10 \times 2.828 = 28$  second allowable non-closure

The standard of accuracy, when closing on other surveys, as set out in *The Land Surveys Regulations* is dependant on the year of the survey of the plan that is being compared to and is as follows:

- For a survey performed in 1950 or earlier, the accuracy factor is 1:1500
- For a survey performed between 1951 and 1975, the accuracy factor is 1:2500
- For a survey performed in 1976 or later, the accuracy factor is 1:5000.

**Purpose:**

Although nothing has changed as far as the standard of accuracy as set out in *The Land Surveys Regulations* goes, we have never had anything specific to angular closures. In the past it has been an internal policy that all parcels must close out angularly. This does not seem practical in situations involving a large number of angles or where subdivisions with multiple lots are concerned since adjusting one angle usually affects the angular closure in the adjacent lot. This policy was created to allow some minor angular nonclosures where it is difficult to make adjustments without affecting the closures of adjacent parcels.

**Linked Policies:  
Sections 29 & 31 of *The Land Surveys Regulations***

**Approved By:**

**Name: Ed Desnoyers, Controller of Surveys**

**Signature:**

**Date: May 31, 2006**