IAC Ch 11, p.1

193C—11.6(542B) Measurements.

11.6(1) Measurements shall be made with instruments and methods capable of attaining the required accuracy for the particular problem involved.

- 11.6(2) Measurements as placed on the plat shall be in conformance with the capabilities of the instruments used.
- **11.6(3)** The unadjusted closure for all closed traverse surveys shall be not greater than 1 in 5,000 and, for subdivision boundaries, 1 in 10,000.
- 11.6(4) In a closed traverse, the sum of the measured angles shall agree with the theoretical sum by a difference not greater than 30 seconds times the square root of the number of angles.
 - 11.6(5) The unadjusted error of field measurements shall not be greater than 1 in 5,000.
 - 11.6(6) The relative positional tolerance at the 95 percent confidence level shall be as follows:
 - a. For subdivision boundaries: $\pm (0.13 \text{ feet} + 1:10,000)$
 - b. For all other land surveying: $\pm (0.26 \text{ feet} + 1.5,000)$
- 11.6(7) Bearings or angles on any property survey plat shall be shown to the nearest one minute; distance shall be shown to the nearest one-tenth foot.