STEEL TAPING DATA SHEET
For measuring a calibration course

Name of calibration course: _____

City/town and State: _____

Date: _____

Start time: _____ Finish time: _____

Pavement temperature: Start _____ Finish _____ Average _____
(thermometer shaded from direct sun)

Measurements and calculations:

1 First measurement. This establishes tentative start and finish marks which should not be changed until the final adjustment on line 6 below.

_____	x	_____	+	_____	=	_____
# tape lengths		distance per tape length		partial tape length		measured distance

2 Second measurement. This checks the distance between the SAME tentative start and finish points marked in the first measurement, but use new intermediate taping points.

_____	x	_____	+	_____	=	_____
# tape lengths		distance per tape length		partial tape length		measured distance

3 Average raw (uncorrected) measurement of course _____

4 Temperature correction. Use the average pavement temperature during measurement. Work out answer to at least seven digits beyond the decimal point.

Correction factor = 1.0000000 + (.0000116 x [Celsius temperature – 20])

Correction factor =

NOTE: For temperatures below 20C, factor is less than one
For temperatures above 20C, factor is greater than one

5 Multiply the temperature correction factor by the average raw measurement of the course (line 3)

_____	x	_____	=	_____
correction factor		avg. raw measurement		corrected measurement

6 If you wish, you may now adjust the course to obtain an even distance, such as one kilometre. This is not necessary as you may choose instead to use an odd-distance calibration course whose endpoints are pre-existing permanent objects in the road to guard against hazards such as repaving. If you adjusted the course, explain why you did it.

Final (adjusted) length of calibration course _____