

APPLICATION FOR CERTIFICATION OF CALIBRATION COURSE

1. Name of Calibration Course Mayreni St. 2
2. Length of Calibration 300.0906 m Course
3. City Santo Domingo Country Dominican Republic
4. Date(s) Measured April 19, 2015
5. Method Used to Measure Calibration Course Steel Tape
6. How many times did you measure the calibration course? 2
7. Measuring Team Leader: Carlo Graciano 8094812787
(name) (telephone #)
Guayacan 4 Punta Cana 23000
(address) (City) (Postal Code)
8. List Names and Duties of Team Members: Eliecer Adames – Held zero end of tape
9. Submit a **map** of this calibration course, showing the name of the road (and relevant cross streets), and the exact locations of start and finish points, including taped distances from nearby permanent landmarks.
10. Is this calibration course: STRAIGHT? Yes PAVED? Yes
11. How are the start and finish points marked? Nail, Orange survey marker, nail and red paint
12. Are the start and finish points located in the road where a bicycle wheel can touch them? Yes
3. Approximate altitude of calibration course 163 feet **Mark end points in a permanent way (concrete or PK nails).** Paint will fade. The calibration course, once certified, can be used to measure many courses. TAKE CARE OF IT!
14. If the calibration course was measured by **Electronic Distance Meter (EDM)**, describe on a separate sheet the exact procedures used; also include a copy of the original field notes from the measurement on company letterhead.
15. If the calibration course was measured by **steel tape**. fill out a copy of the calibration course data sheet for steel taping and complete the following:
16. How much tension was applied to the tape while Strong pull measuring?
17. How was tension maintained? By hand
18. Was the tape free of any kinks, crimps, or splices? yes
19. Bicycle Check. This is a check against miscounting the number of tape lengths. (If you used a gross measurement check other than a bicycle, please explain.). Walked twice the course counting all the tapes.
 - A. Counts for full calibration course
 - B. Counts for one tape length
 - C. Divide A by B
 - D. Number of full tape lengths

Steel Taping Data Sheet

(for measuring a calibration course)

Name of Calibration Course Mayreni Calibration Course 2

City Santo Domingo Country Dominican Republic Date May 15, 2013

Start Time 7:15am Finish Time 7:32am

Pavement Temperature: Start 90.8 F Finish 91.0 F Average 90.9 F

(if you do not use a bimetallic thermometer, the thermometer must be shaded)

Measurements and Calculations:

1. First Measurement. This establishes tentative start and finish marks which should not be changed until the final adjustment in step 6 below.

$$\frac{6}{\text{\# tape lengths}} \times \frac{50}{\text{distance per tape length}} + \frac{0}{\text{partial tape length}} = \frac{300.00}{\text{measured distance}} \text{ m}$$

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.

$$\frac{6}{\text{\# tape lengths}} \times \frac{50}{\text{distance per tape length}} + \frac{0.002}{\text{partial tape length}} = \frac{300.002}{\text{measured distance}} \text{ m}$$

3. Average Raw (uncorrected) Measurement of Course 300.001 m

4. Temperature Correction. Use the average pavement temperature during measurement, in whichever formula is appropriate (for Celsius or Fahrenheit temperature). Work out answer to at least seven digits beyond the decimal point.

$$\begin{aligned} \text{Correction factor} &= 1.0000000 + \{0.0000116 \times [\text{Temp } (^{\circ}\text{C}) - 20]\} \\ \text{Correction factor} &= 1.0000000 + \{0.00000645 \times [\text{Temp } (^{\circ}\text{F}) - 68]\} \\ \text{Correction factor} &= 1.0000000 + (0.00000645 \times (90.9 - 68)) = 1.0000000 + 0.000147705 = 1.000147705 \end{aligned}$$

NOTE: For temperatures below 20°C (68°F), factor is less than one.
For temperatures above 20°C (68°F), factor is more than one.

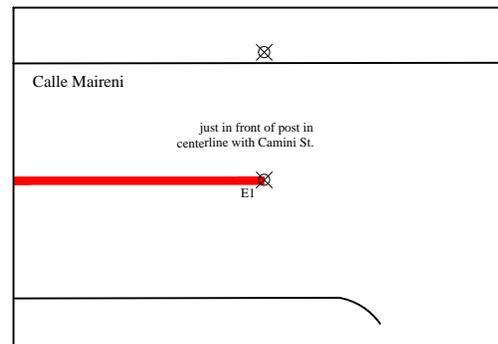
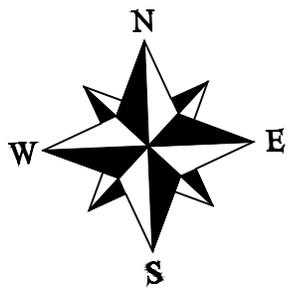
5. Multiply the temperature correction factor by the average raw measurement of the course (step 3).

$$\frac{1.000147705}{\text{correction factor}} \times \frac{300.001}{\text{avg. raw measurement}} = \frac{300.0453}{\text{corrected measurement}}$$

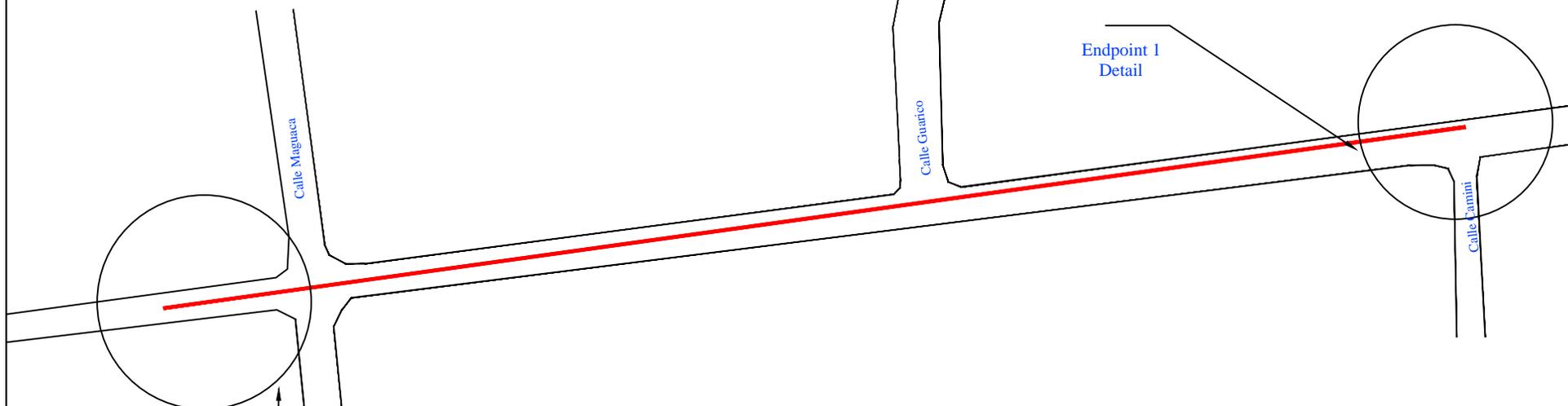
6. If you wish, you may now adjust the course to obtain an even distance (such as 500 m). This is not necessary as you may choose instead to use an odd-distance course whose end-points are pre-existing permanent objects in the road to guard against hazards such as repaving. If you adjusted the course, explain what you did.

Final Adjusted Length of Calibration Course 300.0906 m **Minimum of 300 m**

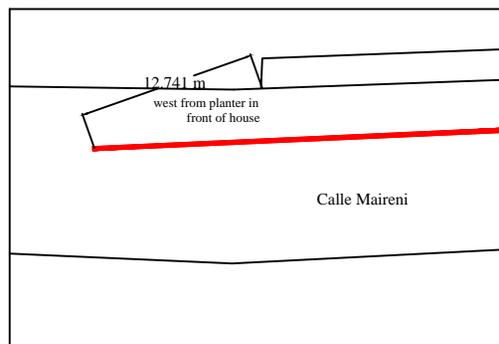
Conversion Factors: 1 foot = 0.3048 metres
1 kilometre = 1000 metres = 3280.84 feet
1 mile = 1609.344 metres



Endpoint 1
Detail



Endpoint 2
Detail



COURSE NAME:	Maireni Calibration Course 2
ADVERTISED RACE DISTANCE:	
LOCATION OF START:	Los Cacicazgos
LOCATION OF FINISH:	
PERSON IN CHARGE OF MEASURING:	CARLO GRACIANO
RACE DIRECTOR:	