

COURSE MEASUREMENT REPORT

Turin Half Marathon 2013

Turin/Collegno/Turin – Italy

21st April 2013

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Paolo Ottone

AIMS/IAAF Official Measurer Grade "B"

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SUMMARY OF MEASUREMENT

- Date of Measurement:
10/04/2013
- How many measurements of the course were made?
One for the total length of the course with intermediate stops at Km 5/10/15/20 marks.
- Name of measurers:
Paolo Ottone, IAAF/AIMS Official Measurer grade "B".
- How much of the road width is available to runners throughout the length of the road race course?

START - Corso Regina Margherita

Corso Lecce
Via Michele Lessona
Via Giovanni Servais
Via Pietro Cossa
Corso Francia
Via Leopardi
Via Terracini
Via Manzoni
Via Sassi
Via Fratelli Cervi
Via Torino
Via Martiri XXX Aprile
Underpass "Nuto Revelli"
Via Papa Giovanni XXIII
Via Roma
Via Verdi
Via Bardonecchia
Via Avigliana
Corso Francia
Via Susa
Via Moncenisio
Corso Kennedy
Via Alpignano
Via Martiri XXX Aprile
Via Fratelli Tampellini
Corso Pastrengo
Viale Certosa
Strada Antica di Collegno
Corso Sacco e Vanzetti

FINISH - Corso Regina Margherita

Torino (South side carriageway)

Torino (West side carriageway)
Torino (All)
Torino (All)
Torino (West side carriageway)
Torino (North side carriageway)
Collegno (All)
Collegno (All)
Collegno (All)
Collegno (All)
Collegno (All)
Collegno (All)
Collegno (All)
Collegno (All)
Collegno (All)
Collegno (All)
Collegno (All)
Collegno (North side carriageway)
Collegno (All)
Collegno (All)
Collegno (All)
Collegno (All)
Collegno (All)
Collegno (South side carriageway)
Collegno (All)
Collegno (All - Cycling Path)
Torino (All)
Torino (All)

Torino (South side carriageway)

- If the route at turns cannot be described as the "shortest possible route", explain what restrictions will apply, and how these will be enforced?
Streets not available for their entire width will be delimited by cones and barriers.
- Length of the course after adjustment:
21.097,5m – Pint to Point/Loop Course
- Difference between longest and shortest measurement:
-
- Which measurement was used to establish the final course length and why?
My own measurement because was the only one taken.

Paolo Ottone

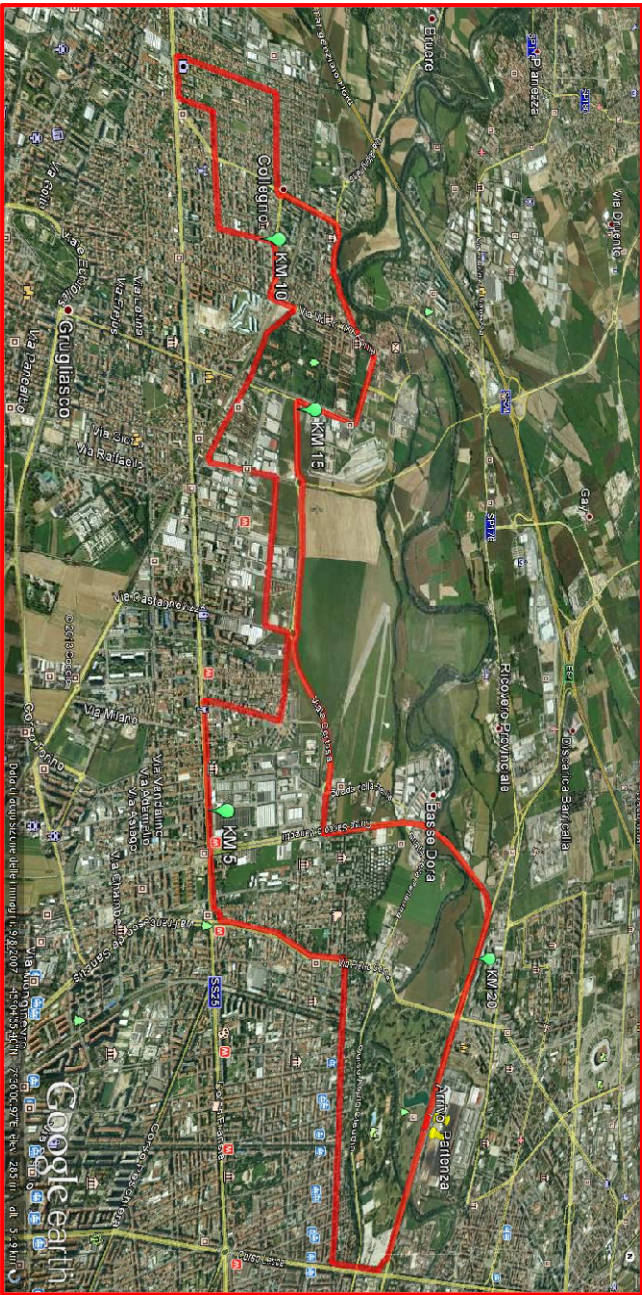
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COURSE MAP



AIMS/IAAF Official Measurer Grade "B"
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COURSE STREET LIST	
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Corso Lecce
Via Michele Lessona
Via Giovanni Servais
Via Pietro Cossa
Corso Francia
Via Leopardi
Via Terracini
Via Manzoni
Via Sassi
Via Fratelli Cervi
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Via Martiri XXX Aprile
Via Fratelli Tappellini
Corso Pastrengo
Viale Certosa
Strada Antica di Collegno
Corso Sacco e Vanzetti
FINISH - Corso Regina Margherita

[illegible]

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COURSE MEASUREMENT DETAILS



COURSE MEASUREMENT DETAILS									
Date of Measurement:	10/04/2013								
Name/Location of the event:	Turin Half Marathon - Turin/Collegno/Turin, Italy								
Advertised Distance:	21,0975		Race Date:		21/04/2013				
Race Director:	Luigi Chiabrera								
Address:	Corso Regina Margherita N° 371 - Turin - Italy								
Phone:	+39.011.455.9959		Fax:		+39.011.4076.054		e-mail:		info@turinmarathon.it
Measure:	Paolo Ottone		Fax:		+39.0323.922.761		e-mail:		IAAF/AIMS Grade: B
Phone:	+39.348.006.5427								
Address:	Via G. Marconi, 3 - 28831 Baveno (VB) - Italy								
Start location:	Turin - Corso Regina Margherita		Finish location:		Turin - Corso Regina Margherita				
Type of terrain (flat, undulating, hilly):	Undulating - Asphalt Surface								
Type of course (laps, point to point, out/back):	Start:		Finish		Point to Point				
Altitude (mt. a.s.l.):	246		308		246		Average m/km: 2,94		
Altitude (mt. a.s.l.):	Highest:		Lowest:		0,12		% on race distance: 0,57%		
Distance in straight line between Start and Finish:									
To be completed by the Area Administrator									
Date Registered:			Certificate N°:						
Administrator:			Signature:						
Paolo Ottone - AIMS/IAAF Grade "B" Measurer									
Date:	10/04/2013								
Signature:									

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OVERVIEW MEASUREMENT PROCEDURE

After receiving the communication by the Italian Athletic Federation, appointing me as Official Measurer of this International race, firstly I requested to the organizers to provide me by e-mail the Calibration and Course Maps in order to check that the new Course was measurable, find the strategy for the measurement, and see Calibration Course position.

I arrived in Turin on Wednesday early morning and went immediately to make a check to the Calibration Course, located on the footpath aside the Start/Finish of the race.

The Calibration Course is a 500 m long stretch aside Corso Regina Margherita set-up by Mr. Delerue Christian and used for the past few years for race measurements.

The calibration course is still in place with nails and yellow paint still visible from last measurement done in 2012.

We decided with the organizers to stop at provisional marks for KM 5/10/15/20 and to make final adjustment by moving Finish Gate; this because there was no “turning points” along the course where we could add or subtract distances.

The further step was to establish the provisional coincident Start/Finish mark in Corso Regina Margherita.

Then I started the measurement accompanied by a local referee and one organizer by bike.

I specifically asked to the organizer to be at least 100 m ahead of me in order to see which was the “shortest route” possible in advance and therefore decide in time which way to measure accurately.

After the measurement we found that the course was **102,90 m too short**, so we had to add this distance to the course by moving the proposed Finish Gate forward by 102,90 m.

The organizers than decided, due to logistic reasons, to **move back the Start Gate by 32,60m** after the measurement; therefore I did the following adjustment to obtain the correct distance and correct position of Start and Finish Gate and marks for KM 5/10/15/20:

START Gate	moved back by 32,60m	from proposed Start/Finish Gate
KM 5	moved backward by 17,44m	$4.984,84\text{m} + 32,60\text{m} = 5.017,44\text{m}$
KM 10	moved forward by 7,82m	$9.959,58\text{m} + 32,60\text{m} = 9.992,18\text{m}$
KM 15	moved forward by 588,37m	$14.379,03\text{m} + 32,60\text{m} = 14.411,63\text{m}$
KM 20	moved backward by 395,76m	$20.363,16 + 32,60\text{m} = 20.395,76\text{m}$
FINISH Gate	moved forward 70,31m	$20.994,59\text{m} + 32,60\text{m} + 70,31\text{m} = \mathbf{21.097,5m}$
		<u>from proposed Start/Finish Gate (102,90m – 32,60m)</u>

After the final calculation we fixed the START Gate final position and the FINISH Gate final position with adjustment along the course for the KM marks.


During the whole measurement I was escorted by two cars from the organizers.

We didn't experience any major problem with traffic.

MEASUREMENT DATA SHEET



COURSE MEASUREMENT DATA SHEET

NAME OF THE EVENT:		Turin Half Marathon - 21/04/2013			
NAME OF MEASURER:		Paolo Ottone	AIMS/IAAF GRADE:		B
PRE-CALIBRATION		LENGTH OF CALIBRATION COURSE:		500	
DATE:	10/4/13	TIME:	4.50	TEMPERATURE:	3.0 C°
RIDE	START	FINISH	DIFFERENCE		
1	762290	767781	5491		
2	767781	773274	5493	AVERAGE:	5492,250
3	773274	778766	5492	COUNTS/KM:	10984,500
4	778766	784259	5493	WORKING CONSTANT:	10995,485
POST-CALIBRATION		LENGTH OF CALIBRATION COURSE:		500	
DATE:	10/4/13	TIME:	6.50	TEMPERATURE:	2.0 C°
RIDE	START	FINISH	DIFFERENCE		
1	19960	25453	5493	AVERAGE:	5492,500
2	25453	30946	5493	COUNTS/KM:	10985,000
3	30946	36438	5492	WORKING CONSTANT	10995,985
4	36438	41930	5492	CONSTANT OF THE DAY:	10995,735
MEASURED POINTS		READING	COUNTS	LENGTH	CUMULATIVE
Start		786660			
Km 5		841472	54812	4,984842	4,984842
Km 10		896173	54701	4,974747	9,959589
Km 15		944768	48595	4,419441	14,379030
Km 20		1010568	65800	5,984139	20,363169
Finish		1017511	6943	0,631427	20,994595
Final Calculation				Measured Distance	20,994595
				Desired Distance	21,097500
Total Measured Distance					0,102905
Adjustment:		The race, after the final calculation, is 102,90 m too short. Move the Finish Gate forward by 102,90 m to obtain the 21,0975 Km total distance.			
Paolo Ottone - AIMS/IAAF Grade "B" Measurer					
Date:		10/04/2013			
Signature:					

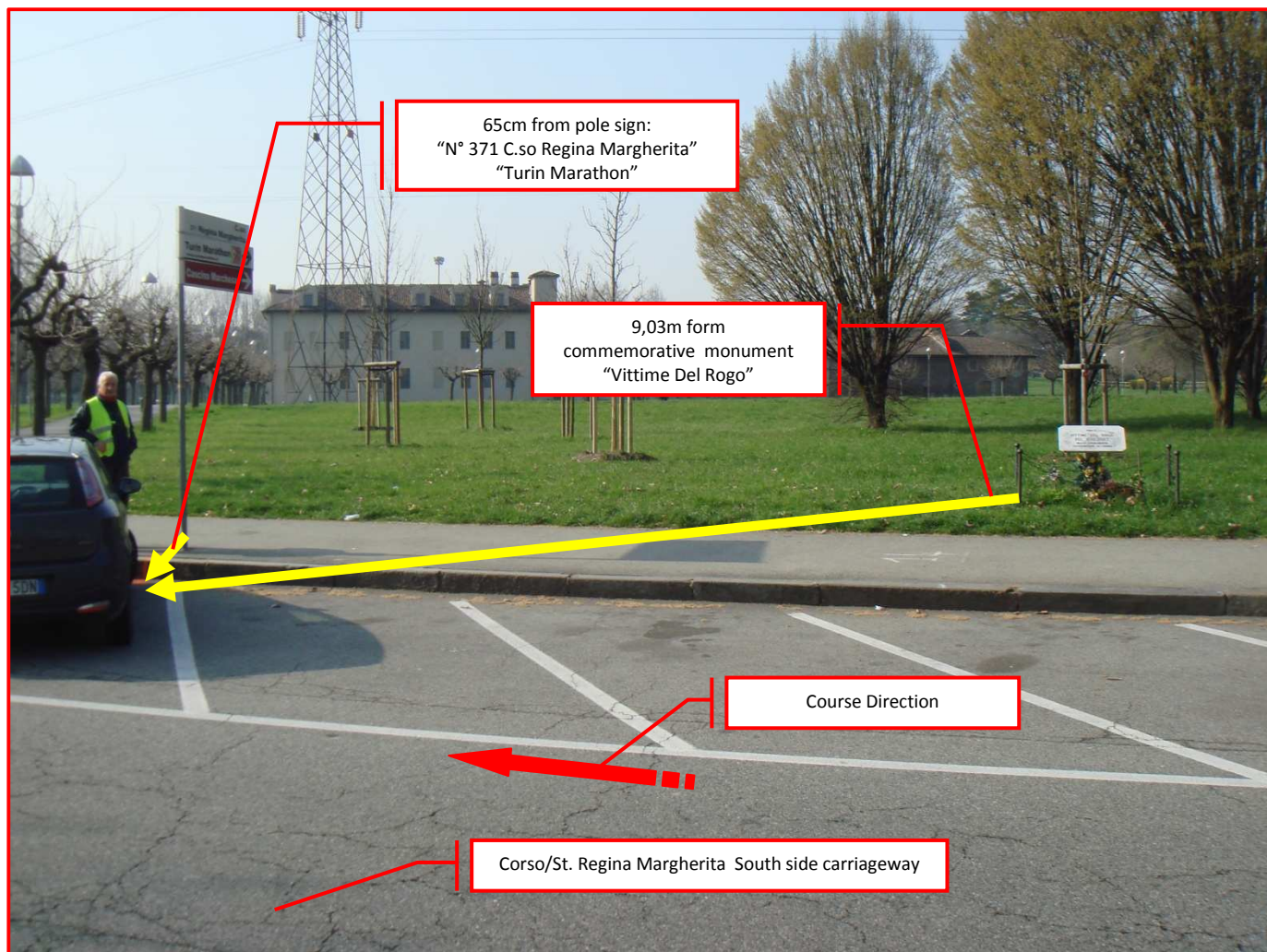
DESCRIPTION SP/TURNS/KM MARKS/CALIBRATION COURSE

START:

Torino, St./Corso Regina Margherita:

- 9,03m from commemorative monument "Vittime Del Rogo"
- 65cm from pole with sign "N°371 – C.so Regina Margherita"

Marked with orange paint and nail.



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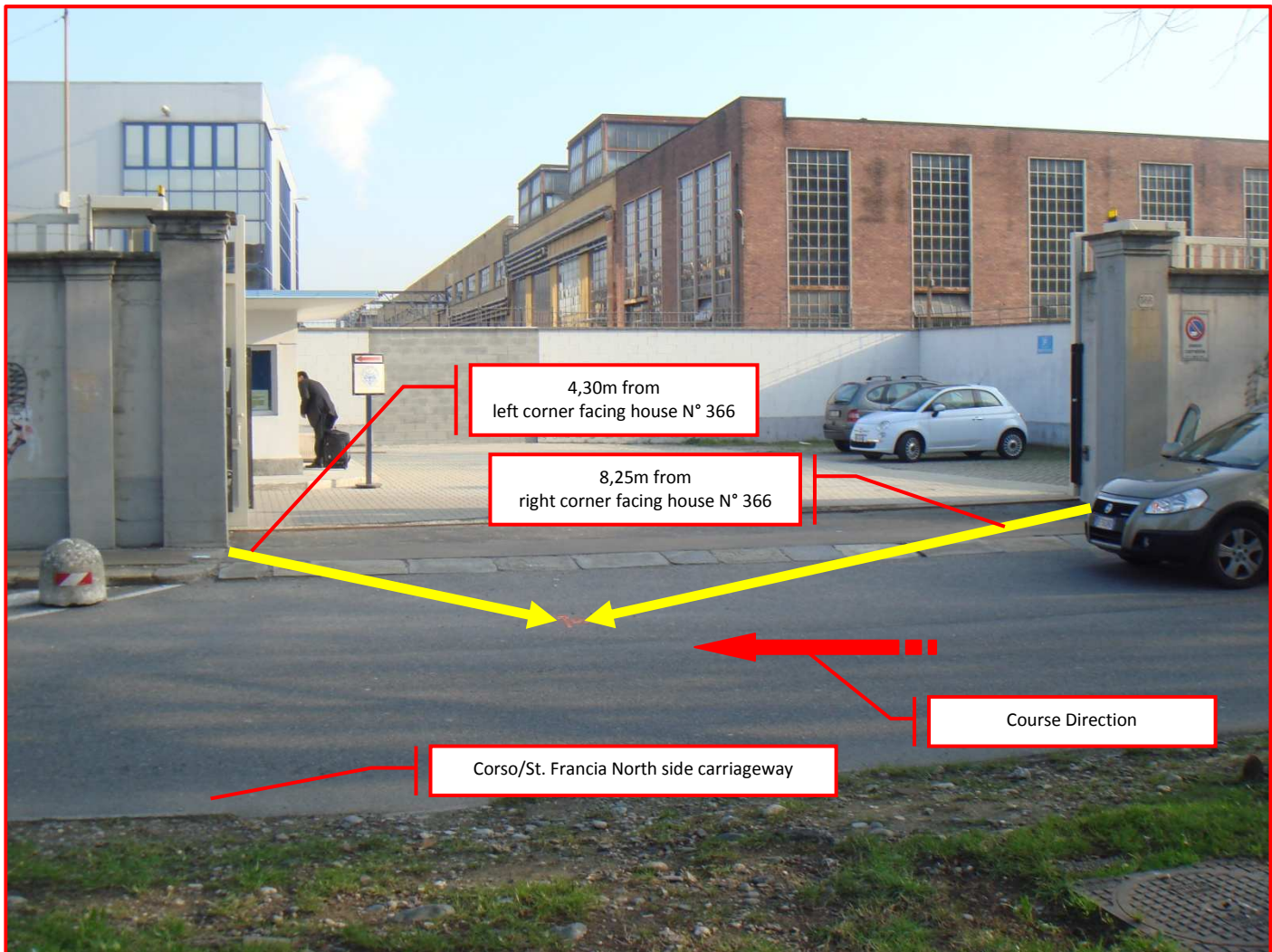
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KM 5:

Torino, St./Corso Francia:

- 8,25m from right corner facing house N° 366
- 4,30m from left corner facing house N° 366

Marked with orange paint and nail.

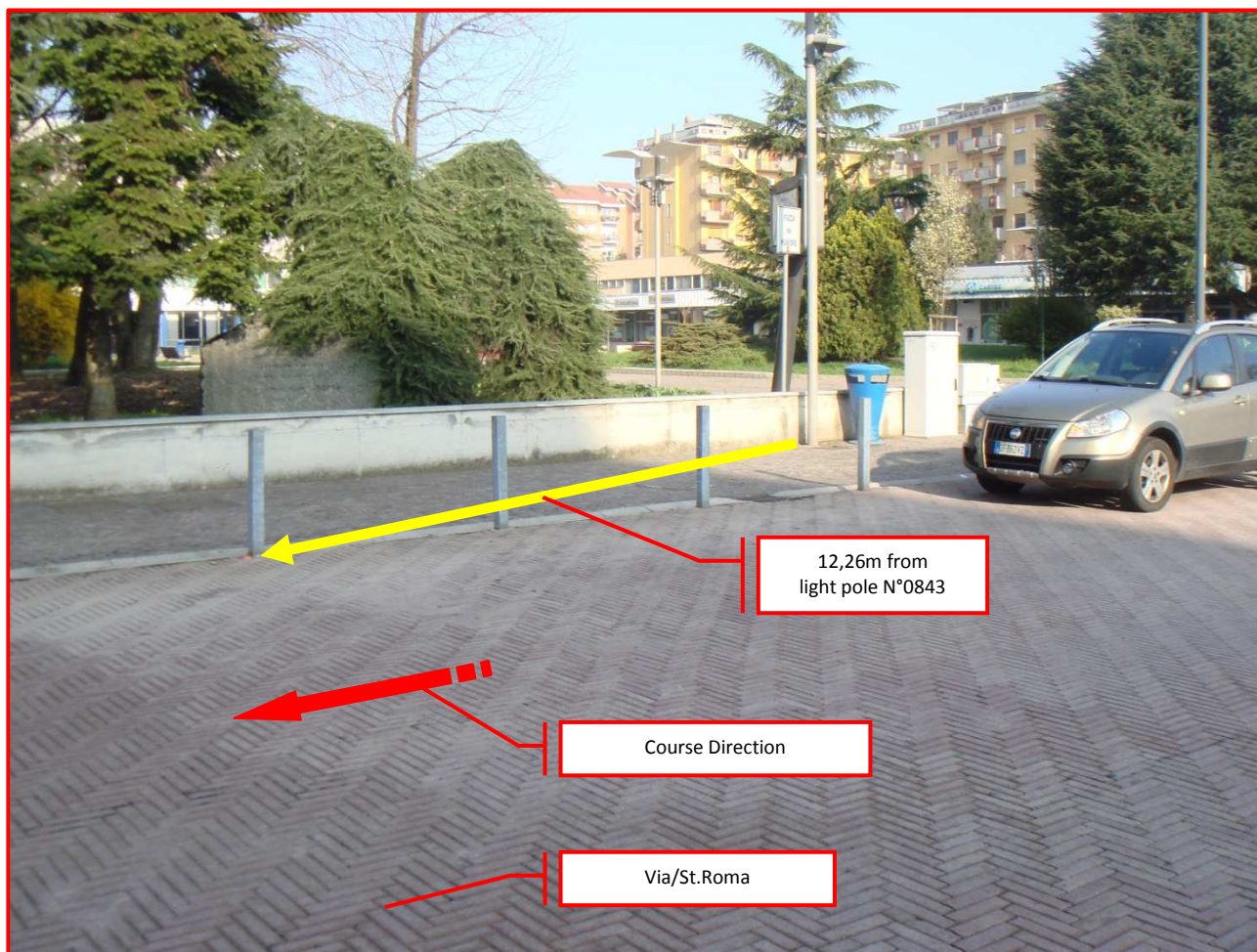


KM 10/A:

Collegno, Roma St. crossing with St./Via A. Toscanini:

- 12,26m from light pole N° 0843

Marked with orange paint and nail.



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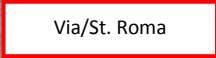
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Collegno, Roma St. crossing with St./Via A. Toscanini:

- Marked with orange paint and nail.



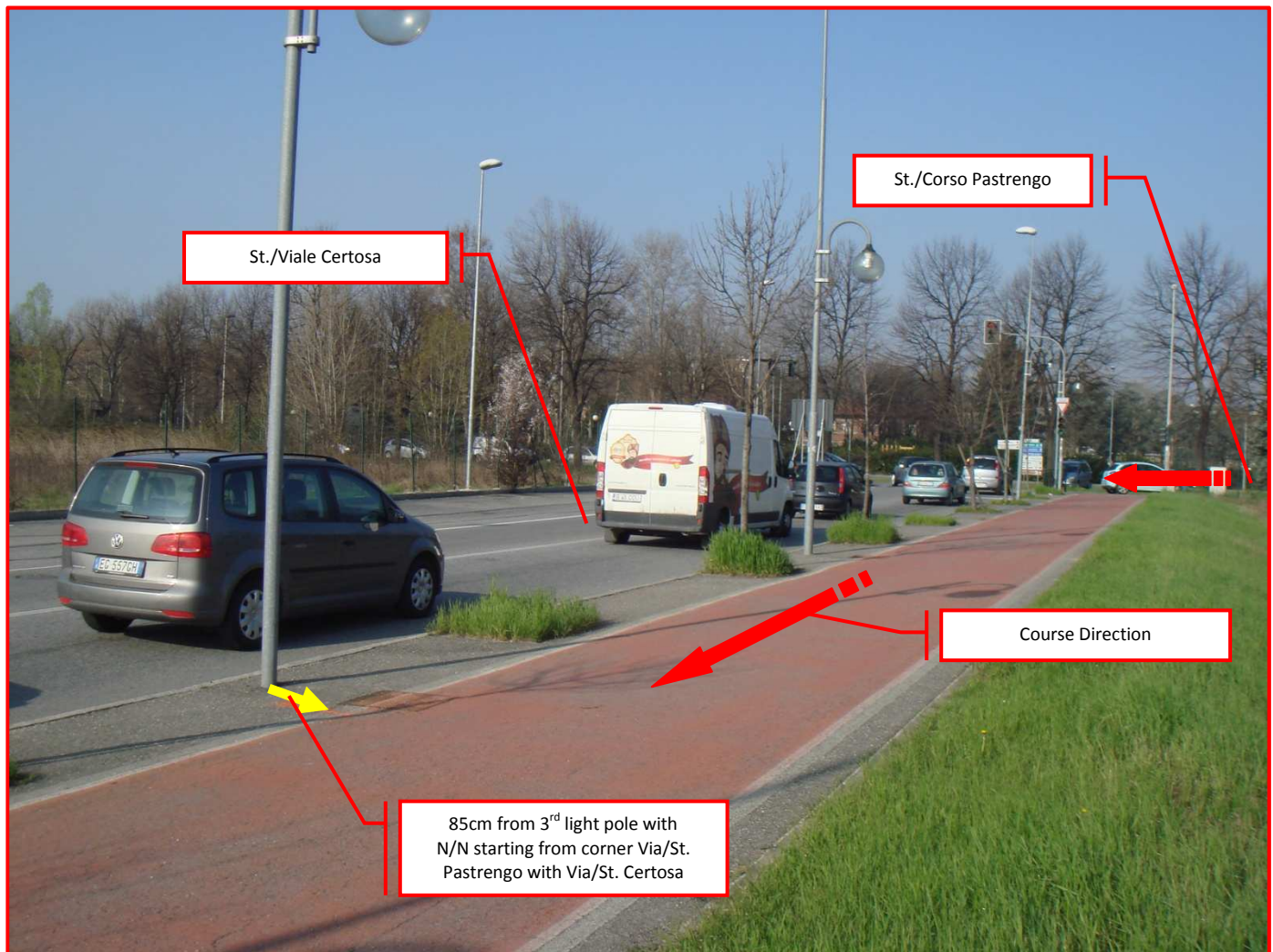
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KM 15:

Collegno, on cycling path, St./Viale Certosa crossing with St./Corso Pastrengo:

- 85cm from 3rd light pole N/N coming from St./Corso Pastrengo

Marked with orange paint and nail.

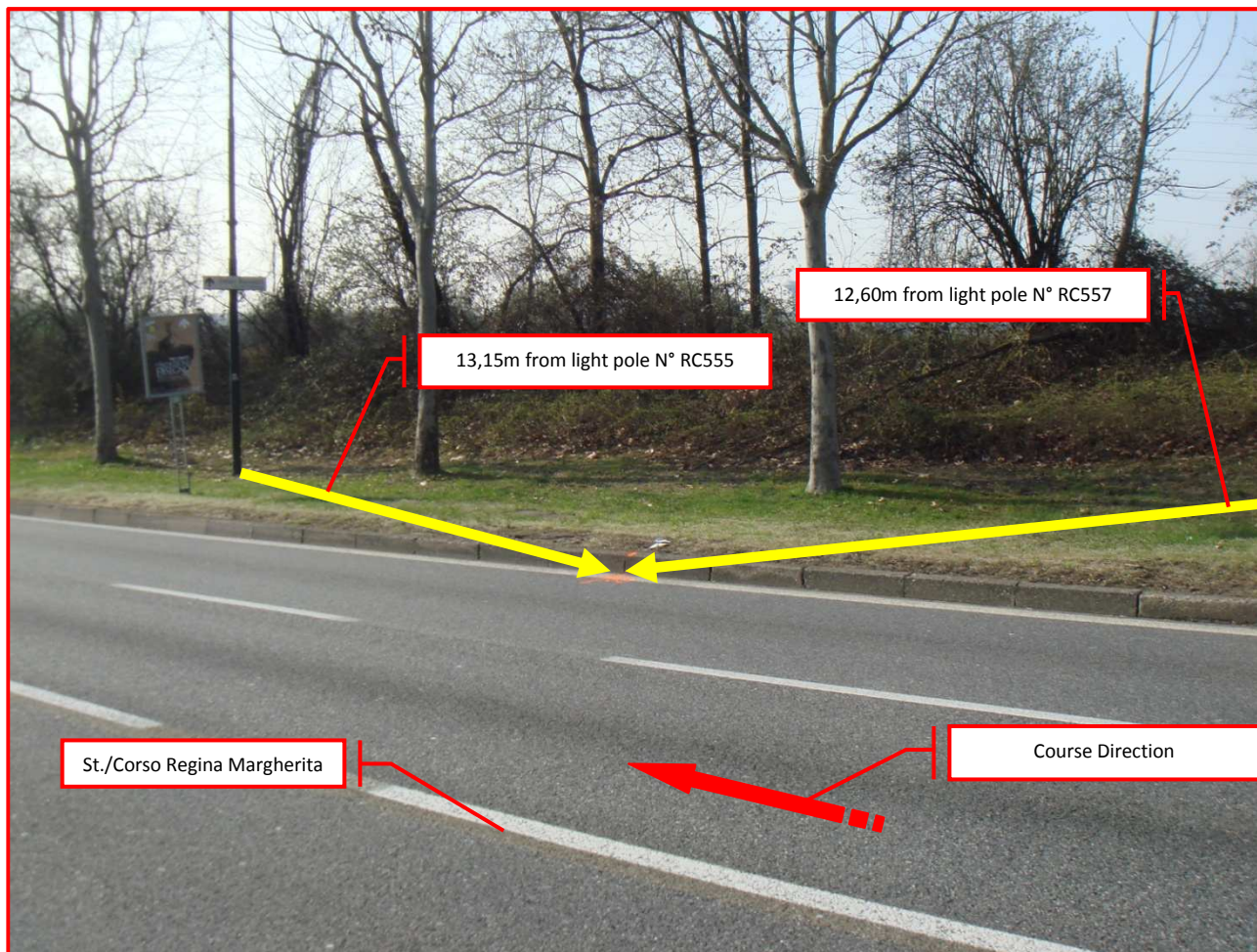


KM 20:

Torino, St./Corso Regina Margherita:

- 13,15m from light pole N° RC555
- 12,60m from light pole N° RC557

Marked with orange paint and nail.



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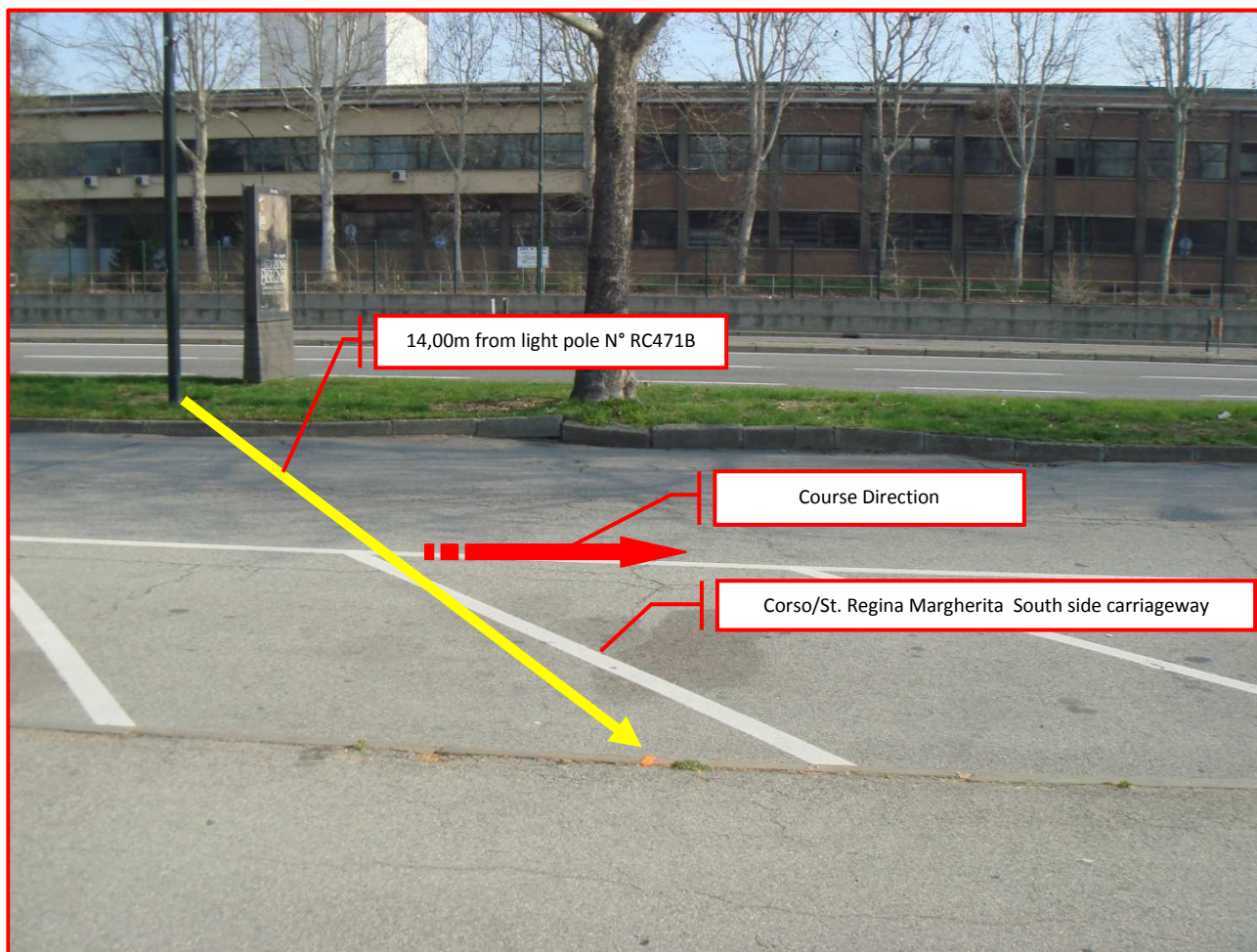
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FINISH/A:

Torino, St./Corso Regina Margherita:

- 14,00m from light pole N° RC471B

Marked with orange paint and nail.



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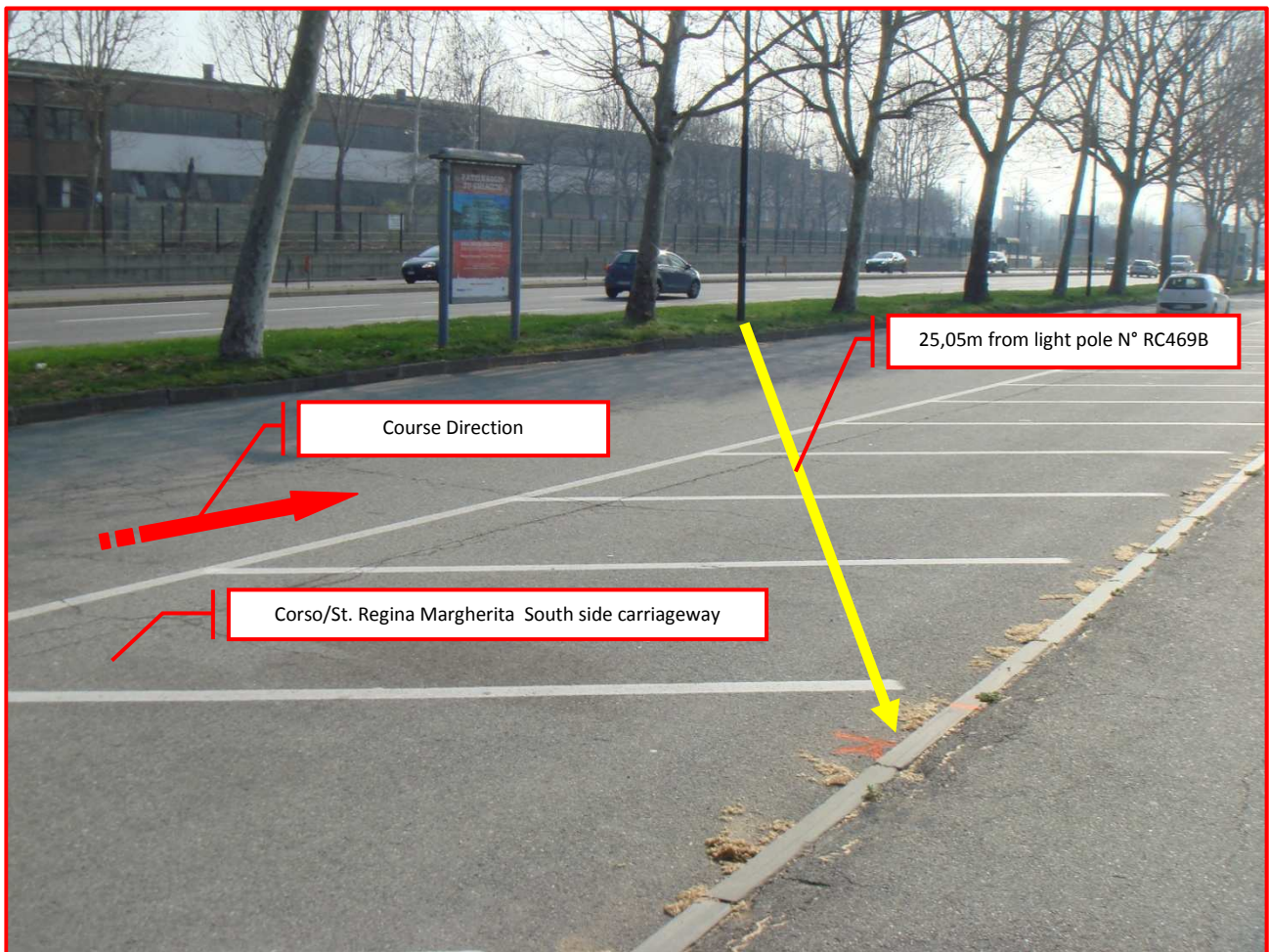
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FINISH/B:

Torino, St./Corso Regina Margherita:

- 25,05m from light pole N° RC469B

Marked with orange paint and nail.



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ROAD RACE

Course Measurement Certificate

Name of Race	Turin Half Marathon 2013
Location	Turin/Collegno/Turin
Country	Italy
Date of Race	21/04/2013
Distance of Race	21.097,5 Km
Measured Distance	21.097,5 Km
Date Measurement	10/04/2013
Altitude Start (a.s.l)	246
Highest (a.s.l)	308
Lowest (a.s.l)	246
Altitude Finish (a.s.l)	246
Type of Course	Point to Point/Loop
Local Mesurer	-
Address	-
Method of Measuring	Bicycle with Jones Counter (6 digits)
AIMS/IAAF Approved Course Mesurer	Paolo Ottone – Grade “B”
Address	Via G. Marconi, 3 – 28831 Baveno (VB) - Italy

This is to certify that the course described above, defined by the attached map and documentation, has been measured and approved for certification. The course measurement complies with AIMS/IAAF Rules for Road Race Course Measurement and the measured distance is not less than the official advertised distance for the event.

ATTENTION! The Official Measurement Certificate will be issued by the Area Administrator.

Baveno, 10/04/2013

Paolo Ottone
AIMS/IAAF Official Mesurer Grade “B”