



GORDION HALF MARATHON

FILE OF MEASUREMENT

2023

The Course

TUR / 2023/ /

Rıdvan DOĞAN- Rifat ARABACI
Grade B Mesureurs - W.A. / A.I.M.S.

WA – AIMS COURSE MEASUREMENT DETAILS Request for Certificate of measurement

Application for a certificate to be attached to the complete report concerning the measurement
Please join this request to the complete report of measurement

Name Of The Race : GORDION HALF MARATHON

Distance : 21 0975 m

City : POLATLI / ANKARA

Country : TURKIYE (TUR)

Type of course (type de circuit) : 1 **laps out and back**

Date of event : 05 Nov 2023

Date of measurement) : 02 Oct 2023

AIMS member : yes / no

W.A. label : yes/ no

Start Altitude : 699 m Finish Altitude : 699 m HIGHEST POINT : 699 m

SEPARATION BETWEEN START AND FINISH 0 m

W.A - AIMS Measurer(s) with adress and Mail : **Rıdvan DOĞAN**
TEKIN SK.HAVUZ SIT.3E D 13 KADIKOY-İSTANBUL (TUR) aridvandogan@yahoo.com

W.A -AIMS Measurer(s) with adress and Mail : **Rifat ARABACI**
SAKIZAGACI APT N 10 D 11 KARTAL/İSTANBUL (TUR) arabacirifat@gmail.com

W.A-AIMS Grade Measurers (grade des mesureurs) : **B**

Country of the measurers (pays des mesureurs) : **TUR**

Part reserved for the administrator

AIMS-W.A. area Administrator : **Lucija Kolić** (lucijakolic@gmail.com)

Date registered :

Certificate Number :

Expiry Date : 31/12/



GORDION HALF MARATHON

FILE OF MEASUREMENT

2023



Rıdvan DOĞAN- Rifat ARABACI
Grade B Mesureurs - W.A. / A.I.M.S.



GORDION HALF MARATHON



APPLICATION FOR CERTIFICATION OF A ROAD COURSE

NAME OF EVENT	GORDION HALF MARATHON
RACE DATE	08 Nov 2023
ADVERTISED RACE DISTANCE	21,0975 m
LOCATION OF START	The start is located in front of YASSI HÖYÜK at 9.31m Street lamp.
LOCATION OF FINISH	SAME AS START
MEASURES	Rıdvan DOĞAN Grade B Measurer TEKIN SK.HAVUZ SIT.3E D 13 KADIKOY-İSTANBUL (TUR) aridvandogan@yahoo.com Rifat ARABACI Grade B Measurer SAKIZAGACI APT N 10 D 11 KARTAL/İSTANBUL (TUR) arabacirifat@gmail.com Country of the measurers : TÜRKİYE
RACE ORGANIZER	COORDONNEES DE L'ORGANISATEUR (Association ou club - Nom du responsable - Adresse - Téléphone) : Polatlı Municipality .Kurtuluş Mah. Adnan Menderes Cad. No:20 Polatlı/ANKARA http://www.polatli.bel.tr/ Managing Director Kadim KOÇ 0507 692 10 83 tarihialanlartanitimmerkezi@gmail.com
TYPE OF TERRAIN	FLAT WITH LIGHT SHORT UPHILLS/DOWNHILLS
TYPE OF COURSE	LOOP COURSES
ELEVATION	START/FINISH 699 m HIGHEST POINT 699 m SEPPARATION BETWEEN START AND FINISH 0 m



GORDION HALF MARATHON



STREET BY STREET FOR CERTIFICATION OF A ROAD COURSE

STREET BY STREET	~KM	LINES AVAILABLE	TRAFFIC
Yassı Höyük Road	0. km	full width, 2 line	without traffic
Yassı Höyük Road	1. km	full width, 2 lines	without traffic
Yassı Höyük Road	2. km	full width, 2 lines	without traffic
Kıran Harmanı Road	3. km	full width, 2 lines	without traffic
Kıran Harmanı Road	4. km	full width, 2 lines	without traffic
Kıran Harmanı Road	5. km	full width, 2 lines	without traffic
Kıran Harmanı Road	6. km	full width, 2 lines	without traffic
Kıran Harmanı Road	7. km	full width, 2 lines	without traffic
Sazılar Köyü Road	8. km	full width, 2 lines	without traffic
Sazılar Köyü Road	9. km	full width, 2 lines	without traffic
Sazılar Köyü Road	10. km	full width, 2 lines	without traffic
Sazılar Köyü Road	11. km	full width, 2 lines	without traffic
Sazılar Köyü Road	12. km	full width, 2 lines	without traffic
Sazılar Köyü Road	13. km	full width, 2 lines	without traffic
Kıran Harmanı Street	14. km	full width, 2 lines	without traffic
Kıran Harmanı Street	15. km	full width, 2 lines	without traffic
Kıran Harmanı Road	16. km	full width, 2 lines	without traffic
Kıran Harmanı Road	17. km	full width, 2 lines	without traffic
Kıran Harmanı Road	18. km	full width, 2 lines	without traffic
Yassı Höyük Road	19. km	full width, 2 line	without traffic
Yassı Höyük Road	20. km	full width, 2 line	without traffic
Yassı Höyük Road	21,1. km	full width, 2 lines	without traffic



Country name: Certificate N°: Start time: **10 00 h'** Start temperature : **19° C**

Date of readings: **02 Oct 2023** End time :**12 h 45'** End temperature : **20° C**

Event name: **GORDION HALF MARATHON (TUR) – 21.0975 km**

Expected date: **05 Nov 2023**

Official measurer: Name: **Rıdvan DOĞAN - Rifat ARABACI** Qualification : **Mesureur, grade B**

Calibration base : **YASSI HÖYÜK ROAD**

TURKIYE

Preamble

At the request of the Organizing Committee and with the agreement of the International Measurement Administrator, **Lucija Kolić** , the measurement of the **GORDION HALF MARATHON in POLATLI/ANKARA (TUR)**, 2023 edition, was carried out on **02 Oct 2023**.

This mission, carried out according to the rules of the art, according to the standards and regulations W.A. A.I.M.S. currently in force, took place in excellent weather conditions, in good, cool weather.

The measurement was carried out by Rıdvan DOĞAN, Rifat ARABACI WORLD ATHLETICS grade B measurers.

For this measure we have benefited from the help and effective collaboration of the Organizing Committee of the Half Marathon and especially M.Ömer Sarıkaya (+90 530 040 75 51) who has a perfect knowledge of the circuit

During the measurement, security was provided by the organization officer. The start and finish are in front of YASSI HÖYÜK square,, The street lamp that is on the left of the road is the distance 9,31 m .

(see photos). START & END FIXED HEIGHTS

The circuit of the **GORDION HALF MARATHON (TUR) 21.0975 M**, 2023 edition, is approved by the international measurement administrator under the number **TUR / 2023 / B** dated **02 Oct 2023**.

Without modification, the period of validity of this measurement is 5 years.

I extend my thanks to the President of the Organizing Committee and to all the participants in this measure for their help, assistance, availability and the perfect organization of my stay.

RIDVAN DOĞAN-RIFAT ARABACI
B.Measurers



CERTIFICATE OF MEASUREMENT OF A PEDESTRIAL RACE

I certify that I have carried out, according to the W.A. protocol of the bicycle calibrated at the Jones Counter, the measurement records of the pedestrian race of **GORDION HALF MARATHON (TUR) 21,0975 K**

organized on: **05 Nov 2023**

Delete unnecessary metnins: ~~1 - This statement is the conclusion of my 2 personal measurement records, allowing to conclude that the proposed circuit measured the distance of:~~

2 - Having made only one measurement reading, it was compared to the measurement reading of another official (attach this second reading) and we concluded that the proposed circuit measured the distance of: **21.10396 m**

3 - Consequently, Consequently, we proposed to the organizer the following modification: the circuit being too long of (tp virage 3,14 m+6,46 m) 9,60 m, we carried out the line, At the Sazılar Village Exit by abbreviated of provided Measured using STANLEY Class II metal tape. This modification makes it possible to bring the final distance of the course of the event referenced above to: **210975 meters**.

4 - **The start** is located, in front of YASSI HÖYÜK square, (see photos).

At 9,31 m Street lamp (see photos).

The arrival is located, in front of YASSI HÖYÜK square, (see photos).

At 9.31 m Street lamp (see photos).

The starting and finishing points and the intermediate kilometres, start, 1,5,10, TP, 15,20, finish have been marked by triangulation, painted and studded (see plans and photos in this file)

5 - I attach to this certificate the signed plans of the circuit as well as the description of the detailed statements of all the landmarks and all the restrictive conditions agreed with the organizer (marking of the sidewalks, direction of the bypass of the roundabouts , precise location of the barrier, precise details of departure and arrival)

Signature of measurers

Ridvan DOGAN **Rifat ARABACI**
R.D R.A

Names and signatures of helpers

M.Ömer Sarıkaya
Ö.S.

COORDONNEES DE L'ORGANISATEUR (Association ou club - Nom du responsable - Adresse - Téléphone) : **Polatlı Municipality .Kurtuluş Mah. Adnan Menderes Cad. No:20 Polatlı/ANKARA**
<http://www.polatli.bel.tr/>

Managing Director : Kadim KOÇ 0507 692 10 83 tarihialanlartanitimmerkezi@gmail.com

DETAIL OF CALIBRATION COURSE



Determining a BASE for calibration



Base Name

YASSI HÖYÜK ROAD

TUR

Pays

City

POLATLI / ANKARA

Date of Statements

17.03.2023

Start time : 09H12

Start temperature : 16°C

End time : 09H39

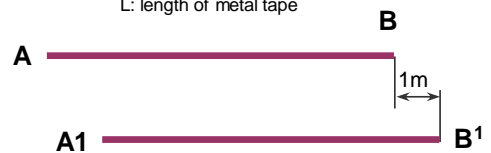
End temperature : 17°C

First measurement

A: starting point (definitive)
n: number of ribbon transfers

B: end point
L: length of metal tape

$$AB = n \times L = 6 \times 50m = 300 m$$



Second measure

BB1 = 1.00m and start from B1 in the opposite direction

$$BA = (n \times L) - BB^1 + AA^1 = 300,000m \quad \text{Average of the 2 measurements: } 300,000$$

F.C.T (thermal correction factor): **0.9999594**

Corrected measurement of AB = average of measurements **299,987 M**

moving away

We obtain the end point **F** point B of **0,013 m** relative to point A

—by bringing closer

The BASE of calibration with the metal tape between points A and F of definitive benchmarks (painted and studded

Registration number

is certified for the distance of :

300 meters

4

TUR

2023

Location and description of the Base's landmarks:

YASSI HÖYÜK ROAD (TUR)

On Point A: Right side, electric panel, at 4.43 m

On Point F: Right side, Village house, at 33.62 m

Name and signatures of measurers

DOGAN Ridvan
ARABACI Rifat

Names of assistants

Kadim KOÇ

Signed plans attached in Annex



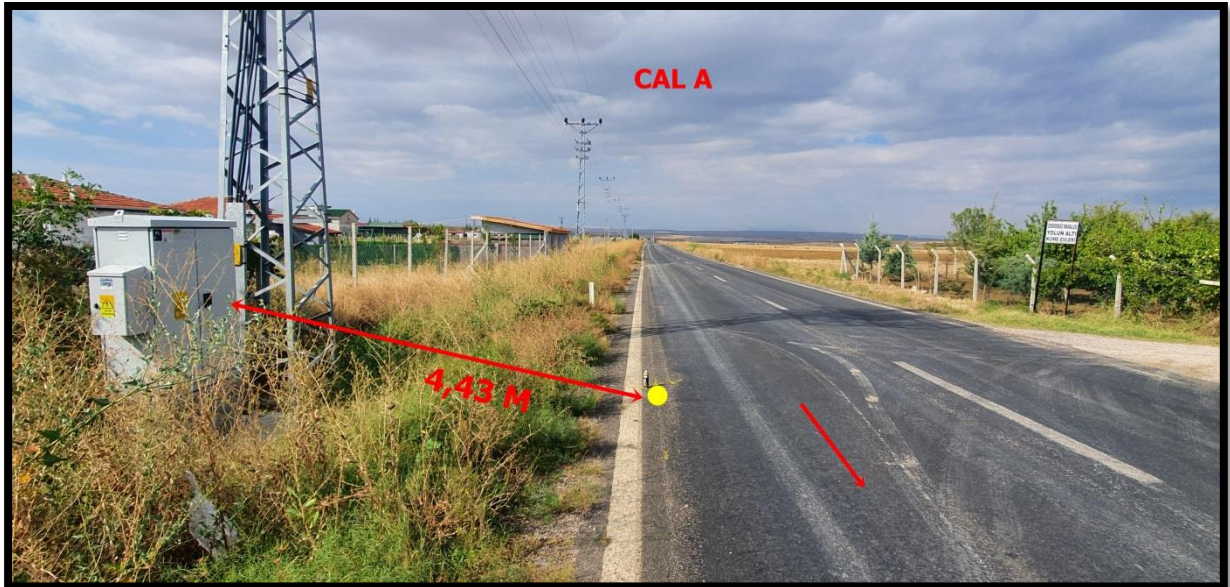
GORDION HALF MARATHON



DETAIL OF CALIBRATION COURSE

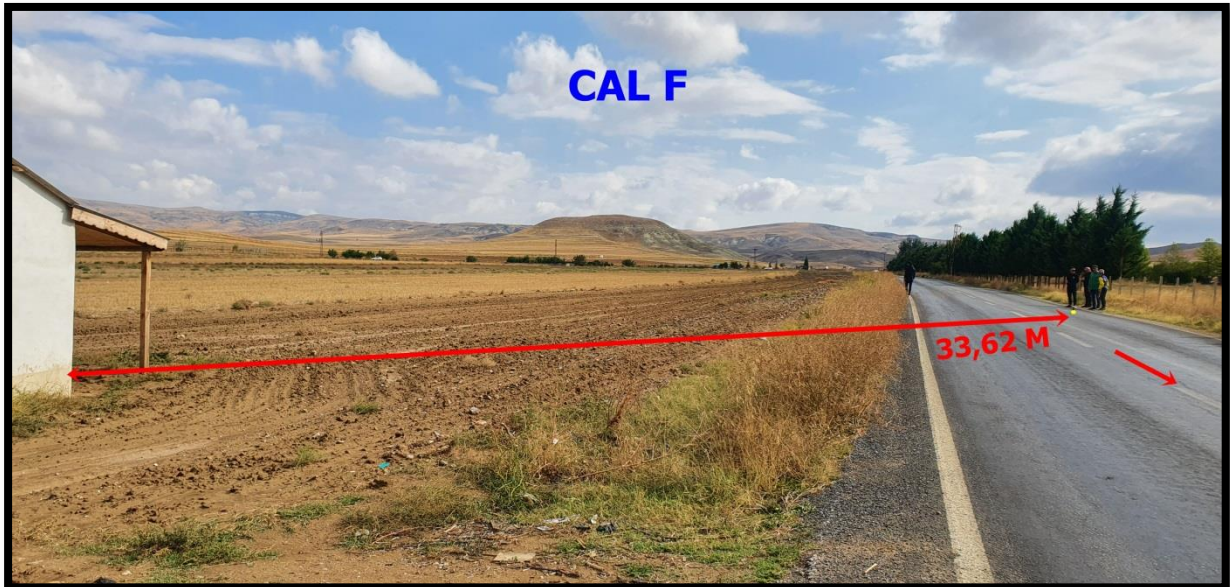
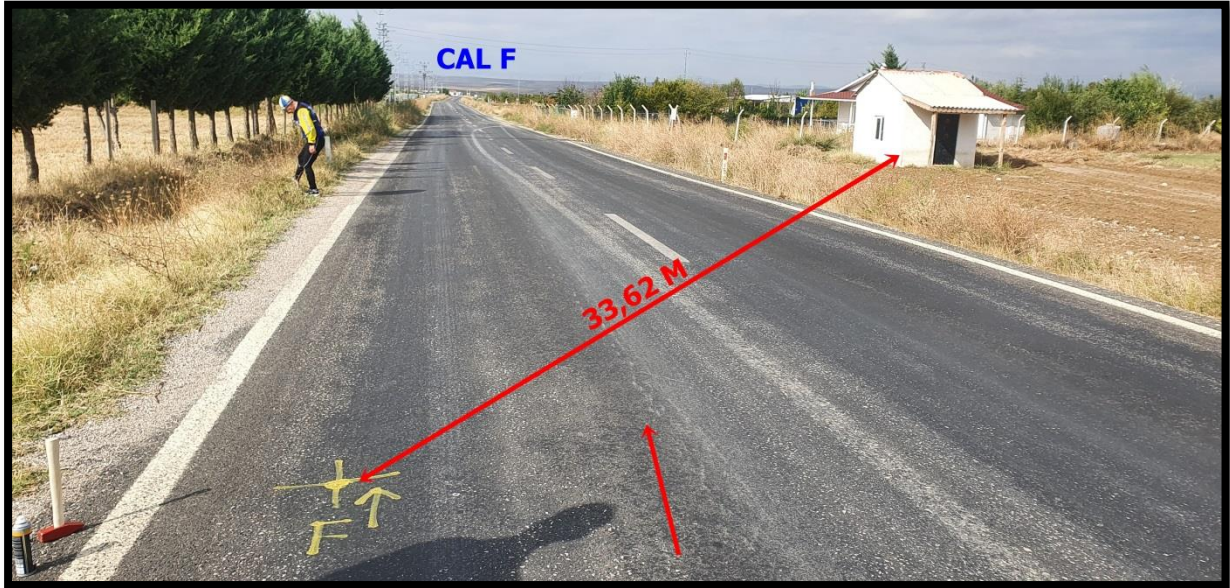
NAME OF EVENT	<i>GORDION HALF MARATHON</i>
LOCATION OF CALIBRATION COURSE	<i>YASSI HÖYÜK ROAD</i>
LENGTH OF CALIBRATION COURSE	<i>300 m</i>
DATE/TIME/TEMPERATURE	<i>02.10.2023 /09:39/17 °C</i>
CITY/COUNTRY	<i>ANKARA/ POLATLI/TUR</i>
MARKINGS	<i>STEEL NAILS, COLORFUL SPRAY</i>
MEASURERS	<i>Rıdvan DOĞAN-Rıfat ARABACI (B grade)</i>

DETAIL OF CALIBRATION COURSE



Roll -1.8° Pitch -15.0°
MAGNETIC FIELD 40 μ T
N 39°38'27.355", E 32°3'53.542"
İsimsiz Yol Çeşitli Yönlü Ankara HEADING
308° NW 312° NW

DETAIL OF CALIBRATION COURSE



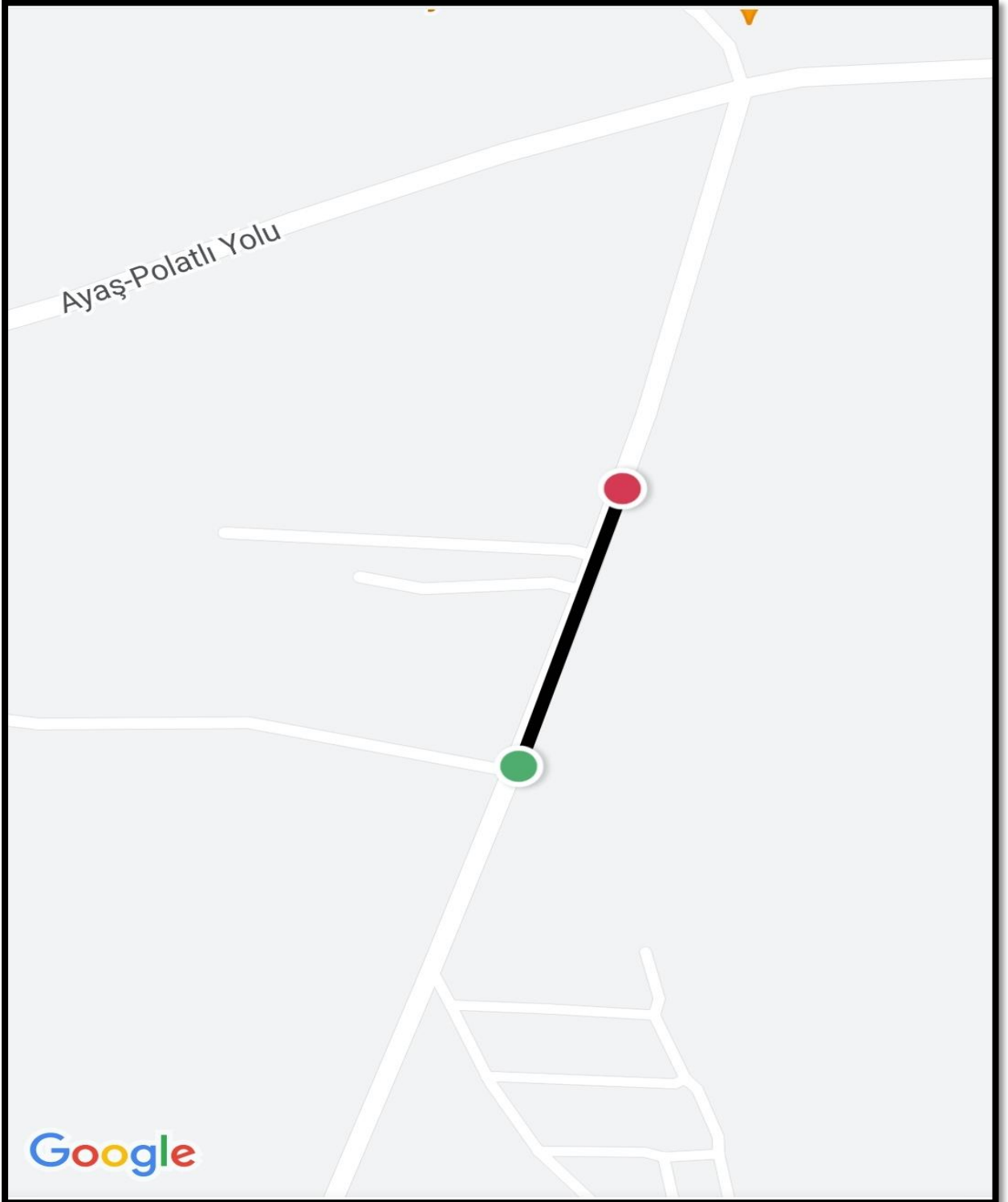
Roll 2.8° Pitch -11.9°
MAGNETIC FIELD 46 μT
N 39°34'31.466", E 32°4'37.831"
Ankara Eskişehir Yolu Üçpınar, Ankara
233 SW 241° SW



GORDION HALF MARATHON

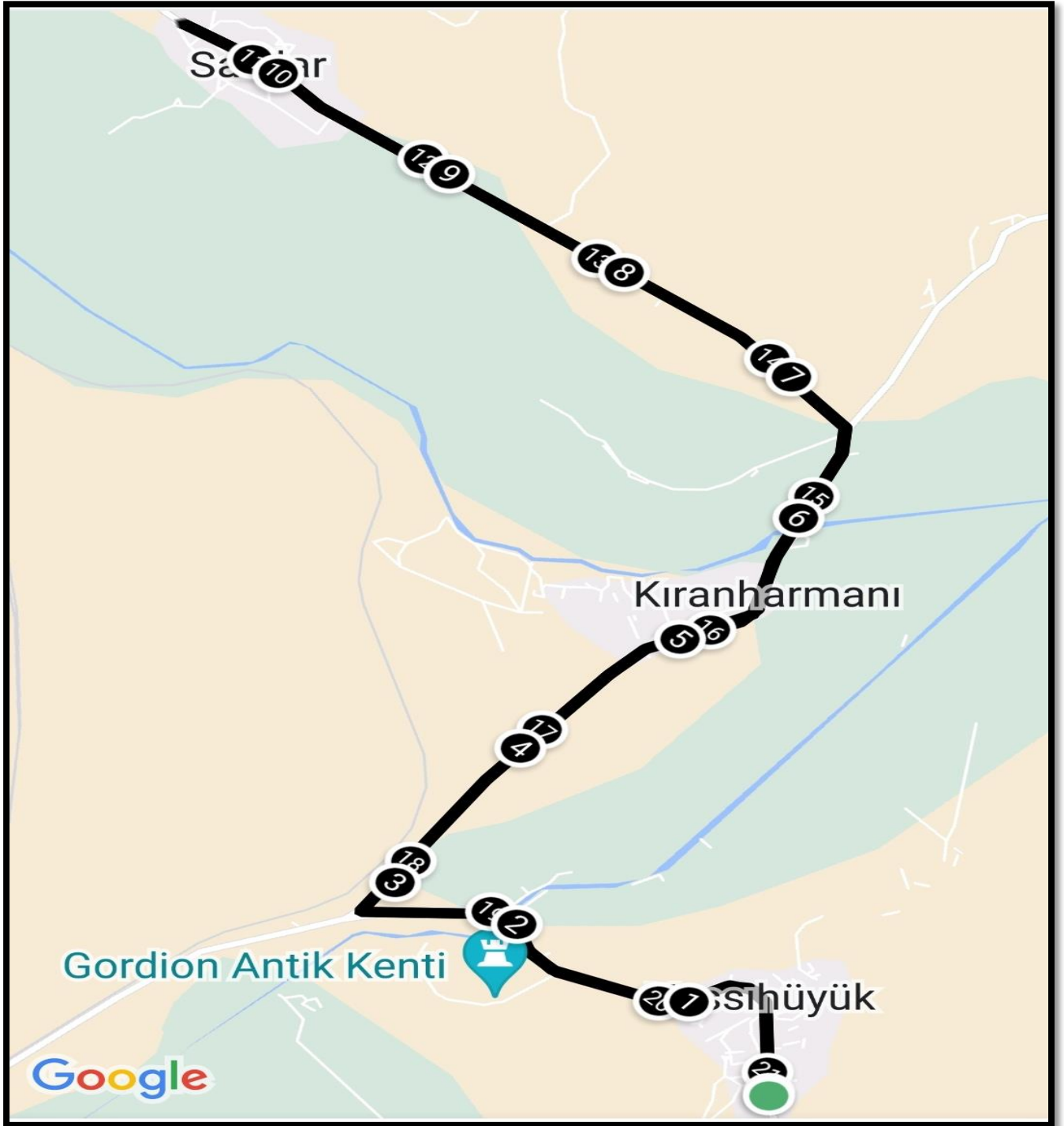


CALIBRATION COURSE

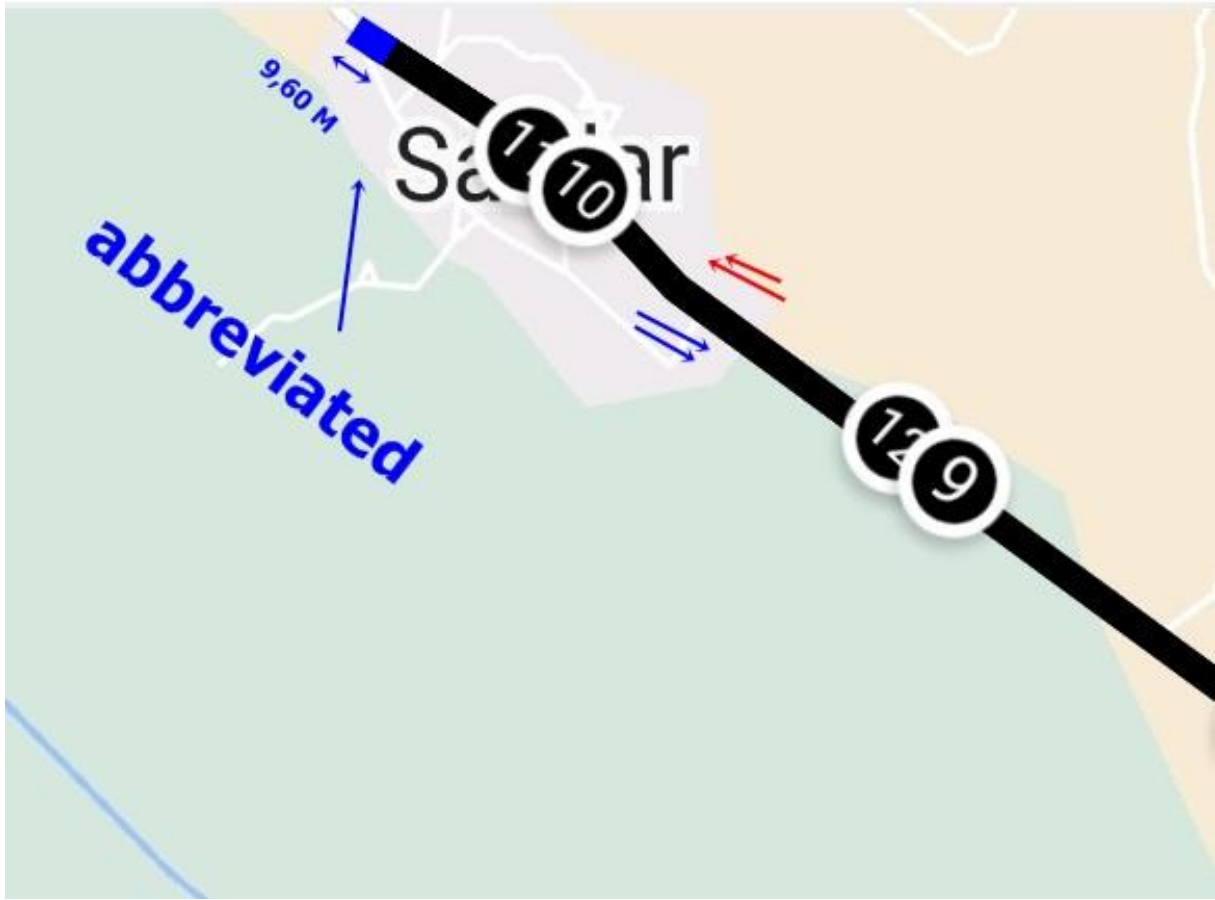


RIDVAN DOĞAN-RIFAT ARABACI

RACE COURSE



ADJUSTMENTS POINT



RIDVAN DOĞAN-RIFAT ARABACI

(tp virage 3,14 m+3,23 x2 m) 9,60 m



GORDION HALF MARATHON CALIBRATION & COUNTERS



GORDION HALF MARATHON 02.10.2023

PRE-CALIBRATION

	Start Count	Finish Count	Difference
1	950000	953374	3374
2	953300	956674	3374
3	956600	959974	3374
4	959900	963274	3374
			13496

POST-CALIBRATION

Start Count	Finish Count	Difference
345400	348773	3373
348700	352073	3373
352000	355373	3373
355300	358673	3373
		13492

$$13496/4=3374$$

$$3374 \times 1.001 \times 3,3333 = 11257,800$$

$$\text{Working Constant} = 11257.800$$

$$\text{Constant For The Day} = 11256,132$$

$$13492/4=3373$$

$$3373 \times 1.001 \times 3,3333 = 11254,464$$

$$\text{Finish Constant} = 11254,464$$

11256,132	READING	Cum.Count	Cum.Distance	Difference
Start Count	35600			
PR1	46842	11242	0,99874	0,00126
PR 5	91880	56280	4999,94	0,06
PR10	148124	112524	9996,68	3,32
TP	154417	118817	10555,75	
PR15	204548	168948	15009,41	9,41
PR20	260704	225104	19998,34	1,66
FINISH	273149	237549	21103,96	
	21,1039-21,0975=0,0064			

RIDVAN DOGAN B GRADE



GORDION HALF MARATHON CALIBRATION & COUNTERS



GORDION HALF MARATHON

PRE-CALIBRATION

POST-CALIBRATION

Start Count	Finish Count	Difference
686000	689362	3362
689362	692725	3363
692725	696087	3362
696087	699450	3363
		13450

Start Count	Finish Count	Difference
10000	13363	3363
13363	16727	3364
16727	20090	3363
20090	23454	3364
		13454

3362,5
33,62X1.001X3,3333=
Working Constant=

11219,429
11219,429

Constant For The Day=

11221,098

3363,50
3363,50X1.001X3,3333-
Finish Constant=

11222,766
11222,766

	READING	Cum.Count	Cum.Distance	Difference (-+)
Start Counter	772000			
PR 1	783212	11212	0,99919	0,0008
PR 5	828102	56102	4,9997	0,0003
PR 10	884185	112185	9,9977	0,0023
TP	890454	118454	10,5564	
PR 15	940426	168426	15,0098	0,0098
10 K TP TO FINISH	952927			
PR 20	996425	224425	20,0003	0,0003
FINISH	1008819	236819	21,1048	0,0073

21,0975-21,1048 = 0,00730

Rifat ARABACI



GORDION HALF MARATHON



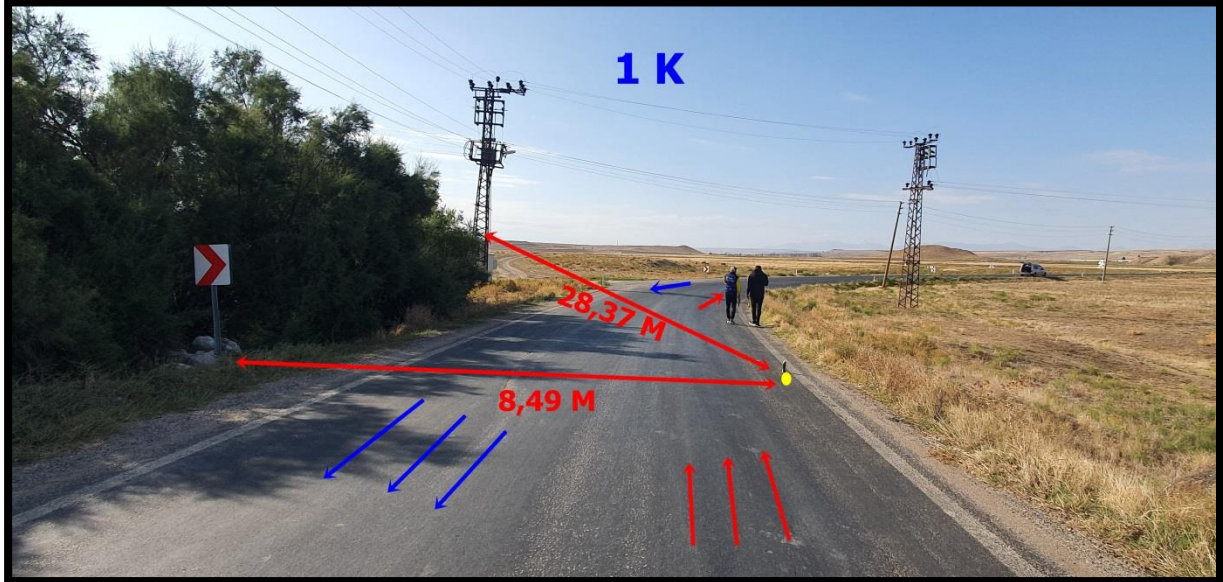
Roll -0.6° Pitch -11.6°
MAGNETIC FIELD 53 μ T
N 39°39'13.095", E 31°59'44.936"

305° NW **TRUE HEADING 309° NW**

RIDVAN DOĞAN- RIFAT ARABACI



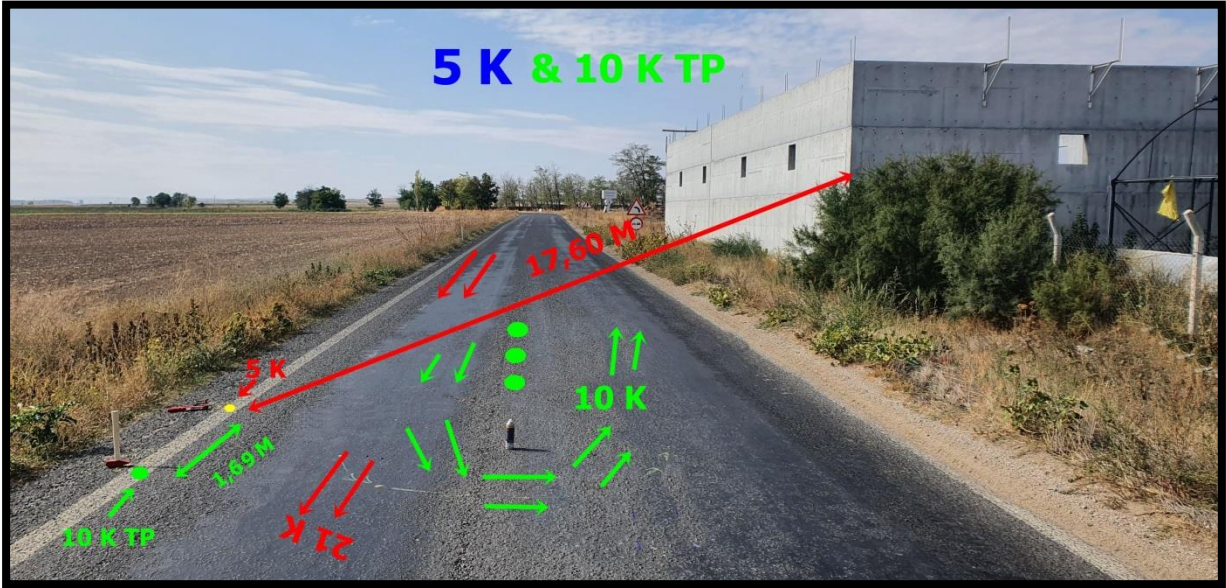
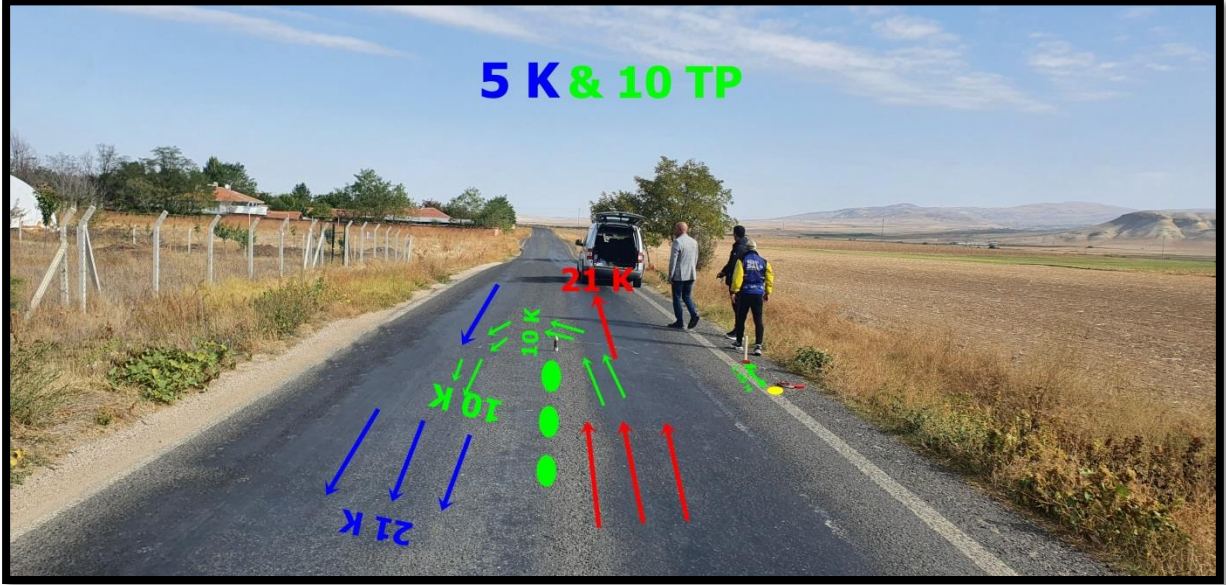
GORDION HALF MARATHON



Roll -3.4° Pitch -13.6°
MAGNETIC FIELD 45 μT
N 39°38'58.83", E 31°57'47.269"
Kiranharmanı Ankara
188° S **TRUE HEADING 194° S**



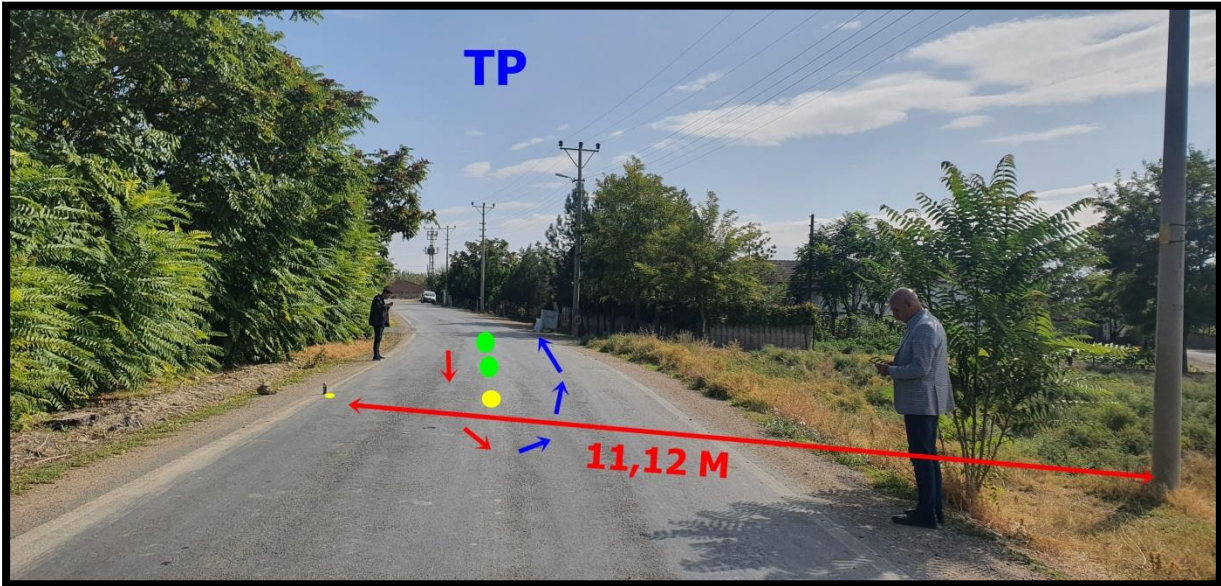
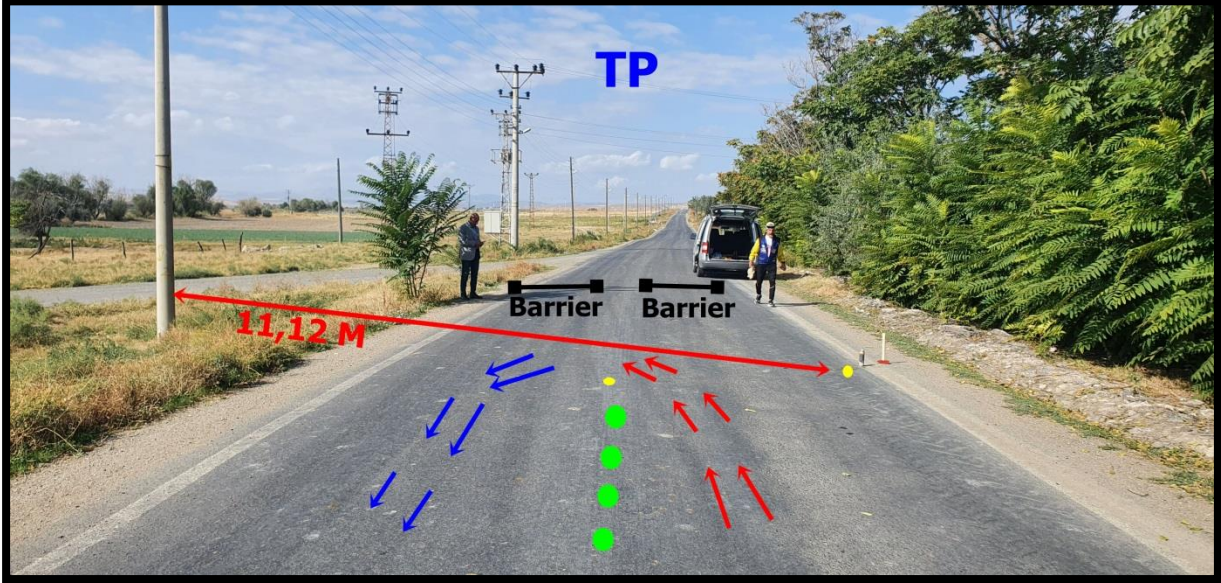
GORDION HALF MARATHON



Roll 3.5° Pitch -12.5°
MAGNETIC FIELD 43 μ T
N 39°34'34.999", E 32°4'36.553"
Ankara Eskişehir Yolu Üçpınar Ankara
17° N **TRUE HEADING 23° N**



Roll 0.6° Pitch -11.6°
MAGNETIC FIELD 44 μT
N 39°38'58.83", E 31°57'47.269"
Kiranharmanı Ankara
281° **TRUE HEADING 287°**

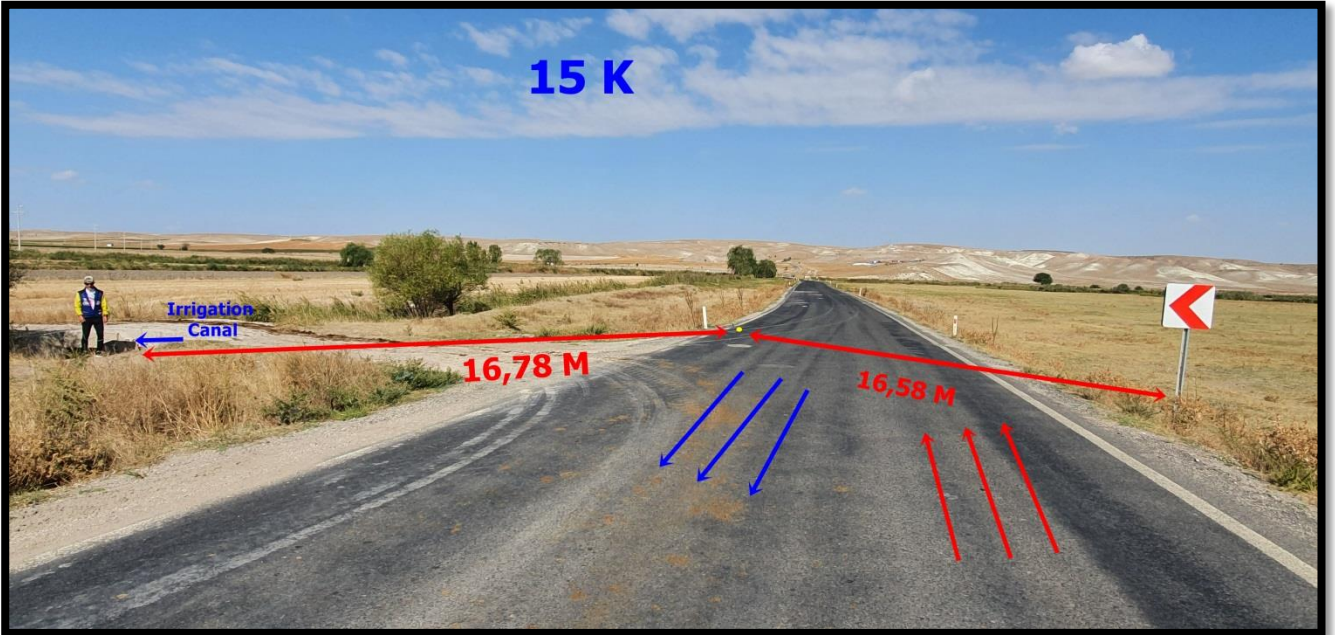
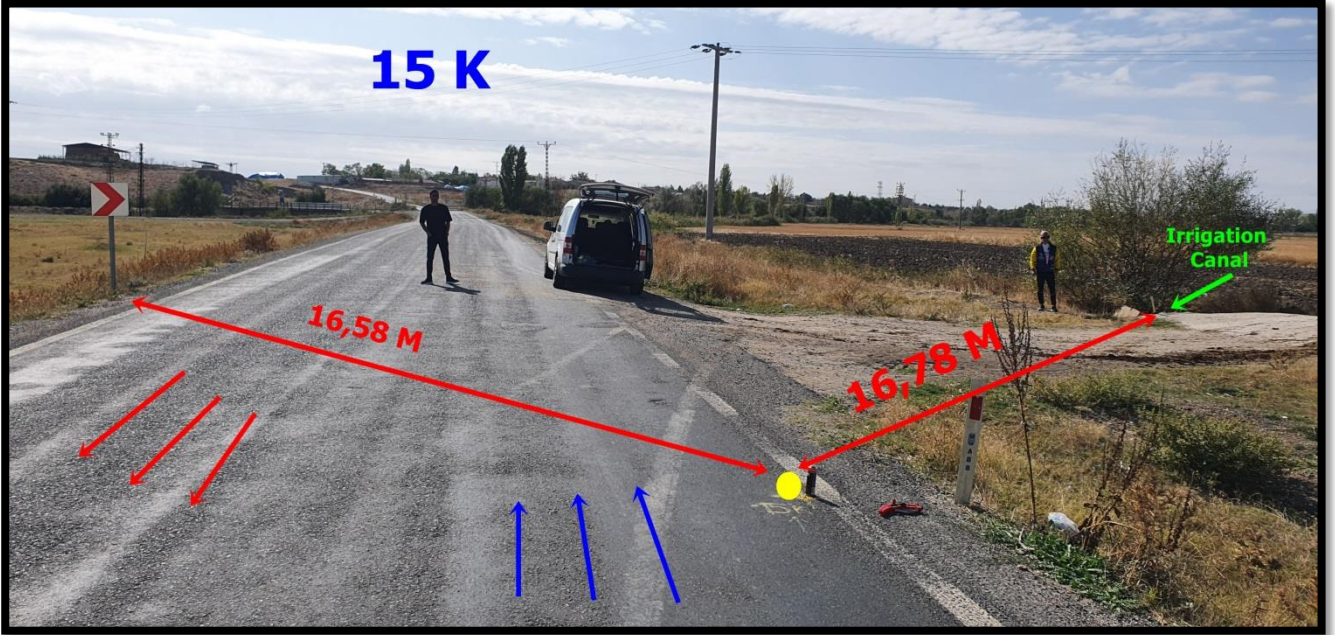


Roll 0.5° Pitch -8.0°
MAGNETIC FIELD 44 µT
N 39°40'26.26", E 31°54'13.505"
İsimsiz Yol Sazlığı Ankara TRUE HEADING
269°

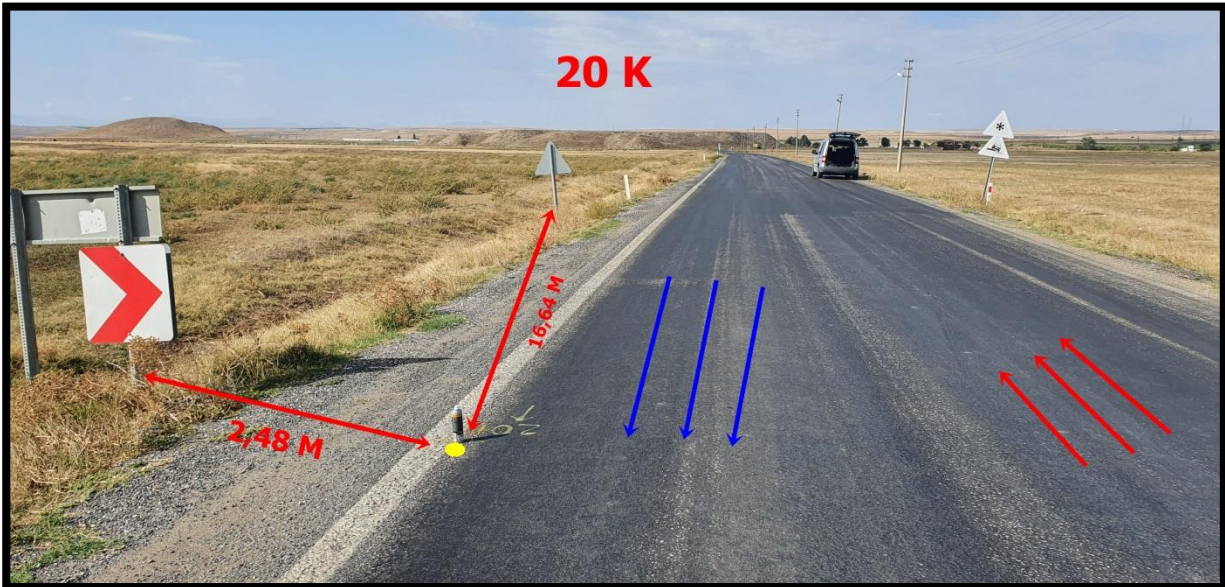
(tp virage 3,14 m+3,23x2 m) 9,60 m



(tp virage 3,14 m+3,23x2 m) 9,60 m



Roll 1.6° Pitch -9.3°
MAGNETIC FIELD 45 μT
N 39°40'43.701", E 31°58'8.793"
İsimsiz Yol Kışlacıhanı Ankara
53° N 57° N



Roll -1.6° Pitch -10.2°
MAGNETIC FIELD 50 μ T
N 39°38'58.83", E 31°57'47.269"
Kiranharmanı Ankara
65° N **TRUE HEADING**
71° E



Roll -0.6° Pitch -11.6°
MAGNETIC FIELD 53 μ T
N 39°39'13.095", E 31°59'44.936"

305° NW

TRUE HEADING
309° NW

RIDVAN DOĞAN- RIFAT ARABACI

TEAM OF MEASUREMENT



The Measurement Team Consisted Of

- Kadim KOÇ
- M.Ömer Sarıkaya
- Melihcan KILIÇ

Thanks for your helps 🙌😊

RIDVAN DOĞAN –RIFAT ARABACI