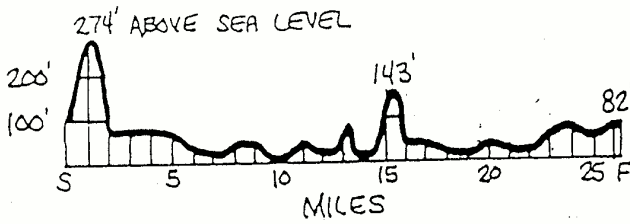
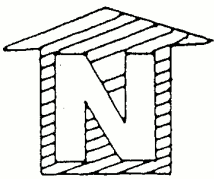
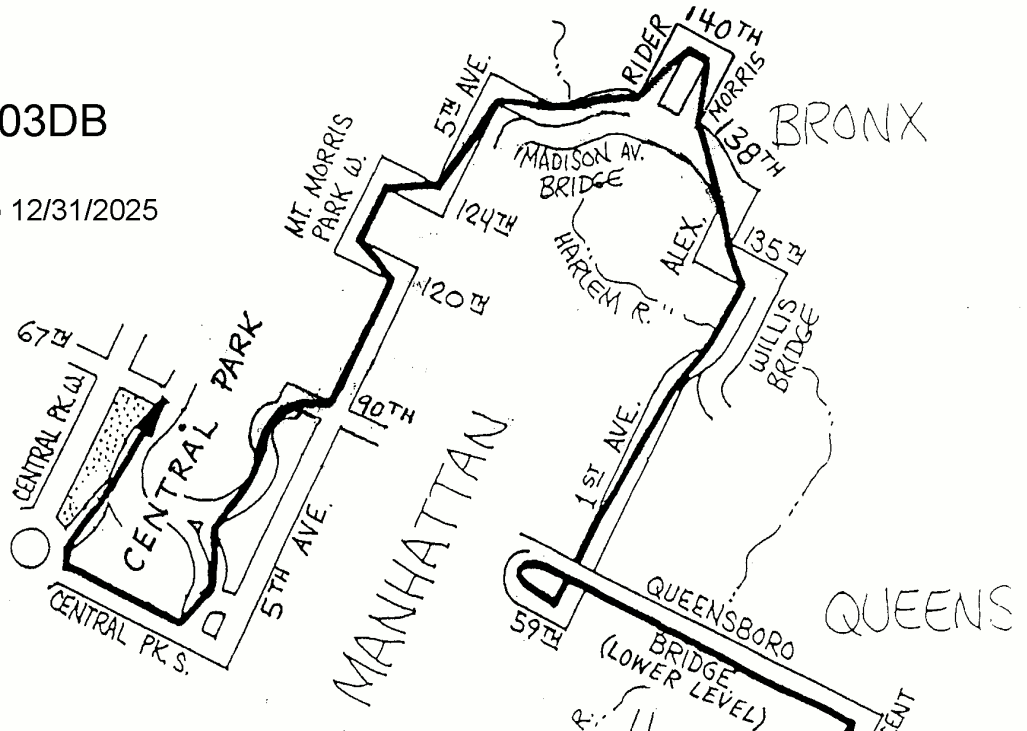




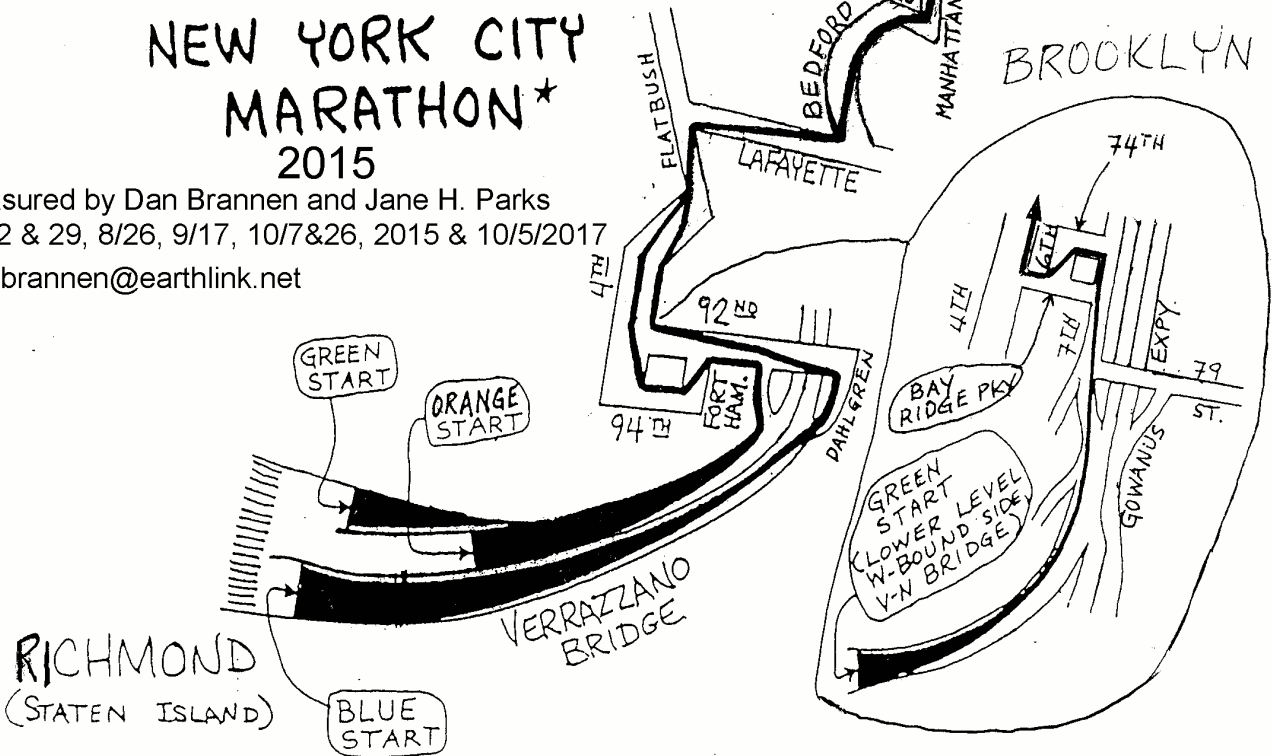
NY15003DB

Effective 10/10/2017 to 12/31/2025



NEW YORK CITY MARATHON* 2015

Measured by Dan Brannen and Jane H. Parks
 7/22 & 29, 8/26, 9/17, 10/7&26, 2015 & 10/5/2017
 danbrannen@earthlink.net





**Road Running Technical Council
USA Track & Field**

Measurement Certificate



Name of the course New York City Marathon - 2017 Distance 42.195 km
 Location (state) New York (city) New York
 Type of course: road race calibration course
 Measuring method: bicycle steel tape electronic distance meter
 Measured by (name, address, phone & e-mail) Dan Brannen, danbrannen@earthlink.net, 973.214.1500
Jane H. Parks janehp3@gmail.com, 973.349.0033 IAAF/AIMS Grade A Measurers (pre-verified)
 Race contact (name, address, phone & e-mail) Peter Ciaccia, New York Road Runners, 156 West 56th Street,
3rd fl., New York, NY 10019
 Date(s) when course measured: July 22, 29, Aug 26, Sept 17, Oct 7 & 26, 2015 and Oct 5, 2017
 Number of measurements of entire course: 2 Course Configuration: Point to Point
 Elevation (meters above sea level) Start 30 Finish 25 Highest 79 Lowest 2
 Straight line distance between start & finish 19924 meters Drop 0.12 m/km Separation 47.22 %
 Type of surface: paved 100 % dirt % gravel % grass % track %
 Effective date of certification: Oct 10, 2017 Certification code: NY15003DB

Notice to Race Director: Use this Certification Code in *all* public announcements relating to your race.

Be It Officially Noted That

Based on examination of data provided by the above named measurer, the course described above and in the map attached is hereby certified as reasonably accurate in measurement according to the standards adopted by the Road Running Technical Council. If *any* changes are made to the course, this certification becomes void, and the course must then be recertified.

Verification of Course — In the event a National Open Record is set on this course, or at the discretion of USA Track & Field, a verification remeasurement may be required to be performed by a member of the Road Running Technical Council. If such a remeasurement shows the course to be short, then all pending records will be rejected and the course certification will be cancelled.

This certification expires on December 31 in the year 2025

AS NATIONALLY CERTIFIED BY:

Dan Brannen

Date: October 10, 2017

Dan Brannen – USATF/RRTC Certifier
 4 Strawberry La., Morristown, NJ 07960, 973.214.1500 Danbrannen@earthlink.net

Certification Data for each mile and 5 km															
	Blue			Orange			Green								
Mile/ 5 km	Elevation Ft	Elevation Meters	Drop m/km	Separation	Percent Separation	Elevation Ft	Elevation Meters	Drop m/km	Separation	Percent Separation	Elevation Ft	Elevation Meters	Drop m/km	Separation	Percent Separation
Start	98	29.8704				98	29.8704				78	23.7744			
1	246	74.9808	-26.68711	1.609344	100.00	246	74.9808	-26.68711	1.609344	100.00	226	68.8848	-26.68711	1.609344	100.00
2	43	13.1064	36.60462	1.609344	100.00	48	14.6304	35.703028	1.609344	100.00	38	11.5824	33.899845	1.609344	100.00
3	65	19.812	-3.967003	1.171	72.76	65	19.812	-3.065412	1.353000	84.07	72	21.9456	-6.130823	1.04396	64.87
5 km	70	21.336	1.70688	3.492	69.84	70	21.336	1.70688	3.487000	69.74	68	20.7264	1.8031833	4.073800	81.48
4	73	22.2504	-1.515152	1.327000	82.46	73	22.2504	-1.515152	1.327000	82.46	73	22.2504	-0.189394	1.327000	82.46
5	66	20.1168	1.3257576	1.609344	100.00	66	20.1168	1.3257576	1.609344	100.00	66	20.1168	1.3257576	1.609344	100.00
6	33	10.0584	6.25	1.609344	100.00	33	10.0584	6.25	1.609344	100.00	33	10.0584	6.25	1.609344	100.00
10 km	42	12.8016	1.70688	8.52	85.20	42	12.8016	1.70688	8.505000	85.05	42	12.8016	1.09728	8.505000	85.05
7	23	7.0104	1.8939394	1.609344	100.00	23	7.0104	1.8939394	1.609344	100.00	23	7.0104	1.8939394	1.609344	100.00
8	38	11.5824	-2.840909	1.511	93.89	38	11.5824	-2.840909	1.511	93.89	38	11.5824	-2.840909	1.511	93.89
9	70	21.336	-6.060606	1.609344	100.00	70	21.336	-6.060606	1.609344	100.00	70	21.336	-6.060606	1.609344	100.00
15 km	46	14.0208	1.05664	12.739	84.93	46	14.0208	1.05664	12.695	84.63	46	14.0208	0.65024	12.695	84.63
10	16	4.8768	10.227273	1.252	77.80	16	4.8768	10.227273	1.252	77.80	16	4.8768	10.227273	1.252	77.80
11	51	15.5448	-6.628788	1.4486	90.01	51	15.5448	-6.628788	1.609344	100.00	51	15.5448	-6.628788	1.609344	100.00
12	18	5.4864	6.25	1.58663	98.59	18	5.4864	6.25	1.58663	98.59	18	5.4864	6.25	1.58663	98.59
20 km	32	9.7536	1.00584	16.277	81.39	32	9.7536	1.00584	16.217	81.39	32	9.7536	0.70104	16.217	81.39
13	10	3.048	1.5151515	1.4137	87.84	10	3.048	1.5151515	1.4137	87.84	10	3.048	1.5151515	1.4137	87.84
21.0975 km	39	11.8872	0.8523854	17.026	80.70	39	11.8872	0.8523854	17.026	80.70	39	11.8872	0.5634412	17.026	80.70
14	8	2.4384	0.3787879	1.34162	83.36	8	2.4384	0.3787879	1.34162	83.36	8	2.4384	0.3787879	1.34162	83.36
15	72	21.9456	-12.12121	0.64547	40.11	72	21.9456	-12.12121	0.64547	40.11	72	21.9456	-12.12121	0.64547	40.11
25 km	120	36.576	-0.268224	18.931	75.72	120	36.576	-0.268224	18.931	75.72	120	36.576	-0.512064	18.931	75.72
16	85	25.908	-2.462121	1.609344	100.00	85	25.908	-2.462121	1.609344	100.00	85	25.908	-2.462121	1.609344	100.00
17	47	14.3256	7.1969697	1.473	91.53	47	14.3256	7.1969697	1.473	91.53	47	14.3256	7.1969697	1.473	91.53
18	10	3.048	7.0075758	1.609344	100.00	10	3.048	7.0075758	1.609344	100.00	10	3.048	7.0075758	1.609344	100.00
30 km	7	2.1336	0.92456	23.087	76.96	7	2.1336	0.92456	23.087	76.96	7	2.1336	0.72136	23.087	76.96
19	12	3.6576	-0.378788	1.609344	100.00	12	3.6576	-0.378788	1.609344	100.00	12	3.6576	-0.378788	1.609344	100.00
20	24	7.3152	-2.272727	1.46027	90.74	24	7.3152	-2.272727	1.46027	90.74	24	7.3152	-2.272727	1.46027	90.74
21	26	7.9248	-0.378788	1.00303	62.33	26	7.9248	-0.378788	1.00303	62.33	26	7.9248	-0.378788	1.00303	62.33
35 km	26	7.9248	0.6270171	24.353	69.58	26	7.9248	0.6270171	24.353	69.58	26	7.9248	0.4528457	24.353	69.58
22	25	7.62	0.1893939	1.38888	86.30	25	7.62	0.1893939	1.38888	86.30	25	7.62	0.1893939	1.38888	86.30
23	36	10.9728	-2.083333	1.55603	96.69	36	10.9728	-2.083333	1.55603	96.69	36	10.9728	-2.083333	1.55603	96.69
24	102	31.0896	-12.5	1.46705	91.16	102	31.0896	-12.5	1.46705	91.16	102	31.0896	-12.5	1.46705	91.16
40 km	73	22.2504	0.1905	20.282	50.71	73	22.2504	0.1905	20.245	50.61	73	22.2504	0.0381	20.182	50.46
25	72	21.9456	5.6818182	1.57363	97.78	72	21.9456	5.6818182	1.57363	97.78	72	21.9456	5.6818182	1.57363	97.78
26	72	21.9456	0	0.58575	36.40	72	21.9456	0	0.58575	36.40	72	21.9456	0	0.58575	36.40
Finish	84	25.6032				84	25.6032				84	25.6032			
Start to Finish			0.1011305	20.29	48.09			0.1011305	20.255	48.00			-0.043342	20.210	47.90

NEW YORK CITY MARATHON - 2015 MILE AND KILOMETER MARKS
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(IMPORTANT NOTE: Each mark is described relative to the running direction of the runners at that point)

- Mile 9: On Lafayette Avenue just past Classon, 3' before leading edge to front door of #386A on right.
15 Kilometers: ***On Bedford Avenue just before (S of) Dekalb, 14' past fire hydrant at #977 on right.***
- Mile 10: On Bedford Avenue just past Lynch St., 10' after (N of) trailing edge of door to #695 on right.
Mile 11: On Bedford Avenue past (N of) S 3rd St and 2' past (N of) the trailing edge of the front door to #327 "Kaplan" building on the right.
- Mile 12: On Manhattan after turn from Nassau at the SE corner of the building (Dunkin Donuts) on the NW corner of the intersection of Manhattan and Bedford.
20 Kilometers: ***On Manhattan Avenue 5 feet before the leading edge of door to #888 on right and just before turn onto Greenpoint.***
- Mile 13: On McGuinness Boulevard on approach to Pulaski Bridge. 66 feet before southern curb edge of Clay St. which is on the left.
Half Marathon: On McGuinness Boulevard on approach to Pulaski Bridge. 3 feet before southern curb edge of Ash St. which is at ground level under bridge structure and 27 feet 10 inches after storm drain that is directly after the first expansion joint before Ash St.
- Mile 14: On 44th Dr., at trailing edge to front door to house #1023 on left.
Mile 15: On Queensboro Bridge lower roadway in what are normally E-bound vehicle traffic lanes; 2 feet before column 34 marked on north facade on runners left.
25 Kilometers: ***On Queensboro Bridge lower roadway in what are normally E-bound vehicle traffic lanes; 16 feet 5 inches after overhead light QBS1-34A and approximately 123 feet after column 64 (on west façade) and as #48 (on the north and south facades).***
- Mile 16: On Queensboro Bridge entrance ramp from W-bound 59th St. onto what is normally the E-bound traffic lanes lower roadway (after that entrance ramp completes 180-degree turn from W-bound to E-bound and comes underneath the bridge upper roadway); 21' before stone bridge pillar on Left which is marked as "QBSO2A;" which is before runners make the 180-degree ramp U-turn down onto 59th Street.
- Mile 17: On 1st Avenue between 77th and 78th St at the N side of the entry door to #1483 on the left (west side) of road.
- Mile 18: On 1st Avenue 20' before the traffic post at the NW corner of E97th St.
30 Kilometers: ***On 1st Avenue, at N edge of storm drain at the SW corner of intersection with 110th St.***
- Mile 19: On 1st Avenue at the southwest edge (curb) of the intersection with 117th St.
Mile 20: On 135th Street after turn from Willis Avenue Bridge, at the fire hydrant on the right next to the Lozada Playground.
- Mile 21: On Madison Avenue Bridge, at W end, 1 foot before the expansion joint after the W-most raised bridge traffic stop gate.
35 Kilometers: ***On 5th Ave, 1' before storm drain at NW corner of intersection with 125th Street.***
- Mile 22: On Mt. Morris Pkwy just past 122nd Street; 29' before hydrant, which is on right.
Mile 23: On 5th Avenue 31' before hydrant on W side of intersection with 103rd Street.
Mile 24: On Central Park on East Drive; 33' past light pole 8402, which is on right.
40 Kilometers: ***In Central Park on East Drive; approx. even with E 71st St. which is outside (E of) the park; even with the unnumbered lamppost which is on the W side of East Drive (runners' Right) and which is the 3rd unnumbered lamppost past (proceeding S from) the traffic light post at the pedestrian crosswalk which accesses the pedestrian path to Summer Stage. Summer Stage is on the Right (W) side of East Drive.***
- Mile 25: In Central Park on East Drive; 19' before light pole E6502, which is on right.
Mile 26: In Central Park on West Drive, approx. even with W 63rd St. which is outside (W of) the park; 126' before (S of) traffic light post which is on runners' Left (W side) onto which is affixed green timing box #37.
- FINISH:** ***In Central Park on West Drive, in line with W 67th Street which is just outside (W of) the park; even with S edge of unnumbered lamppost which is located on cobblestone curb island on E side of West Drive; said lamppost is the one which is directly across from (E of) the center of the entry/exit driveway which runs between West Drive and Tavern on the Green and which also serves as the access route to Central Park West and to 67th St. immediately outside (W of) the park.***



(IMPORTANT NOTE: Each mark is described relative to the running direction of the runners at that point)

ORANGE START: *On VZ Bridge, upper level in what are normally W-bound traffic lanes; 20'5" East of light pole 224, which is on N side.*

Orange Mile 1: On VZ Bridge, upper level in what are normally W-bound traffic lanes; 23' after light pole #116, which is on left.

Orange Mile 2: On VZ Bridge, on entrance ramp from Gatling Place to what are normally upper level W-bound traffic lanes; 23' before light pole #C2B, which is on left.

Orange Mile 3: On 4th Avenue, 35' past (N of) lamp post at NW corner of intersection with 82nd St.

Orange 5K: *On 4th Avenue, between 80th and 79th Sts, 44 feet before fire hydrant on the left.*

Orange Mile 4: On 4th Avenue, just past (N of) 63rd Street; 3' before fire hydrant on the left.

Orange Mile 5: On 4th Avenue between 43rd & 42nd Sts., 16' past (N of) trailing edge of Northernmost of two doors to PS 516 Sunset Park Elementary School #4222 on the left

Orange Mile 6: On 4th Avenue, 33' before (S of) traffic light post on SW corner of 22nd St & 4th Ave.

Orange 10K: *On 4th Avenue, 14 feet after (N of) pedestrian crossing traffic post which is at the NW corner of 18th St. and 4th Ave.*

Orange Mile 7: On 4th Avenue, 6' past (N of) Traffic light post on NW corner of 3rd St. & 4th Ave.

Orange Mile 8: This is now the same as BLUE Mile 8

GREEN START: *On VZ Bridge, lower level in what are normally W-bound traffic lanes; 17' W of light pole #L20 on left.*

Green Mile 1: On VZ Bridge, lower level in what are normally W-bound traffic lanes; 27' after pillar SS188/SS190, which is on right and at sign "Span 10 Panel 69" on wall on left.

Green Mile 2: On entrance ramp to VZ bridge lower level W-bound traffic lanes; 70' after light pole #B1B, which is on left.

Green Mile 3: On 74th Street before 6th Avenue, 1' before trailing (West) edge of #608 on left.

Green 5K: *On Bay Ridge Pkwy past 6th Avenue, 32' before (E of) fire hydrant at house #559, which is on right.*

BLUE START: *On VZ Bridge, upper level in what are normally E-bound traffic lanes; Approx. 280' East of E-most overhead electronic toll gantry which spans the upper level at the Staten Island onramp of the bridge. More specifically, the BLUE START is 16' E of eastern edge of the single storm drain that is 62' E of the cluster of 3 storm drains in a row which are immediately adjacent to (on the S side of) the Western terminus of the zipper-type center divider which divides the upper level W-bound lanes from the upper level E-bound lanes. The W edge of the W-most of these 3 storm drains is 188' E of the above-referenced overhead electronic toll gantry.*

Mile 1: On VZ Bridge, upper level in what are normally E-bound traffic lanes; 2 feet after unmarked suspension/expansion cable structure (#126).

Blue Mile 2: On exit ramp from E-bound upper level of VZ Bridge to Dahlgren Place; 12 feet before light pole F12 on right and at TBTA Electrical Plate on raised curb on right.

Blue Mile 3: On 4th Avenue, 52' after (N of) traffic light post on NE corner of 82nd St & 4th Ave.

Blue 5K: *On 4th Avenue, 46' past (N of) traffic light post on NE corner of 80th St & 4th Ave.*

(Beginning at Mile 4, the Green and Blue courses are now the same)

Blue Mile 4: On 4th Avenue between 63rd and 62nd Sts., 2' before fire hydrant on right.

Blue Mile 5: On 4th Avenue between 42nd and 43rd Sts., 11' before (S of) fire hydrant on right.

Blue Mile 6: On 4th Avenue before (S of) 22nd St, 12' past trailing edge of front door to #693 on right.

Blue 10K: *On 4th Avenue, 32' after (N of) traffic light post on NE corner of 4th Ave & 18th St.*

Blue Mile 7: On 4th Avenue, 11' after (N of) traffic light post on NE corner of 3rd St & 4th Ave.

(Beginning at Mile 8, the Orange, Green, and Blue courses are now all the same)

Mile 8: On Lafayette Avenue, 1' past fire hydrant between Flatbush and Ashland on the left.

MANHATTAN

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BEDFORD

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BEDFORD

