



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



Name of the course Brooklyn Half Marathon 2023 Distance 21.0975 km
Location (state) NY (city) Brooklyn
Type of course: Road Race
Measuring Methods: Bicycle
Measured By Gary Westerfield, 350 Old Willets Path Smithtown NY 11787 631-834-9340 garywesterfield@verizon.net
Race Contact Steve Lastoe, 61 9th St. Brooklyn NY 11215 917-482-4401 steve@nycruns.com
Date(s) when course measured: 03/02/2022, 03/15/2022, 03/26/2023, 03/30/2023
Number of measurements of entire course: 2 Course Configuration: point to point
Elevation (meters above sea level) Start 4.00 Finish 40.00 Lowest -1.00 Highest 47.00
Straight line distance between start and finish 7364m Drop -1.71 m/km Separation 34.90 %
Type of surface: Paved 100 % Dirt 0 % Gravel 0 % Grass 0 % Track 0 %
Effective date of certification: April 16, 2023 Certification code: NY22049DNB

Note 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 the course, or at the discretion of USA Track & Field, a verification measurement 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 of the year: **2032**

AS NATIONALLY CERTIFIED BY:

Date: April 17, 2023

Diana Bean - USATF/RRTC Certifier - 180 W. Lake Road, Brackney PA 18812
(607) 240-9858 - dbean0120@gmail.com

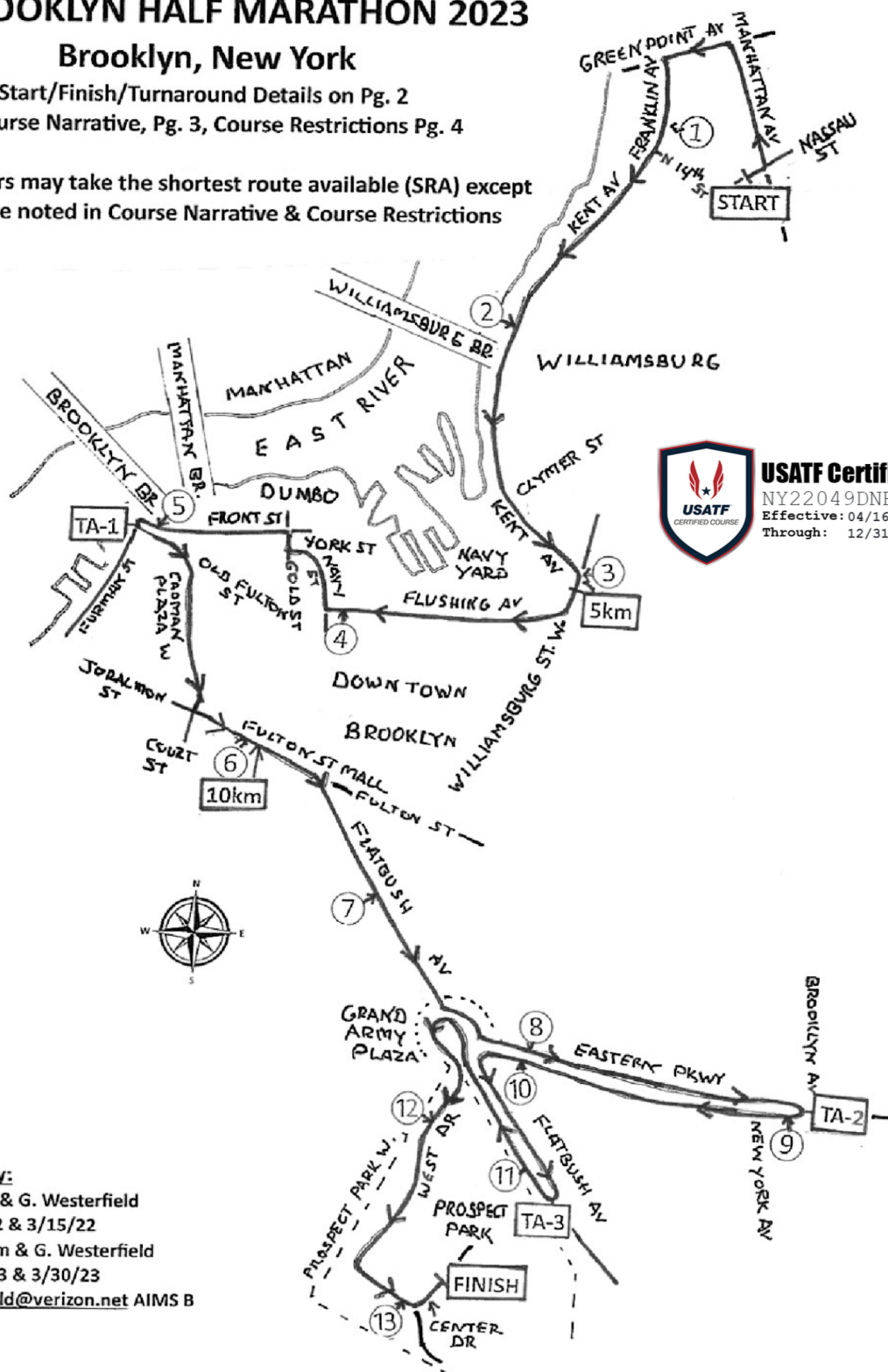
BROOKLYN HALF MARATHON 2023

Brooklyn, New York

Start/Finish/Turnaround Details on Pg. 2

Course Narrative, Pg. 3, Course Restrictions Pg. 4

Runners may take the shortest route available (SRA) except where noted in Course Narrative & Course Restrictions



USATF Certificate

NY22049DNB

Effective: 04/16/2023

Through: 12/31/2032

Measured by:

T. Jagroo & G. Westerfield
3/2/22 & 3/15/22

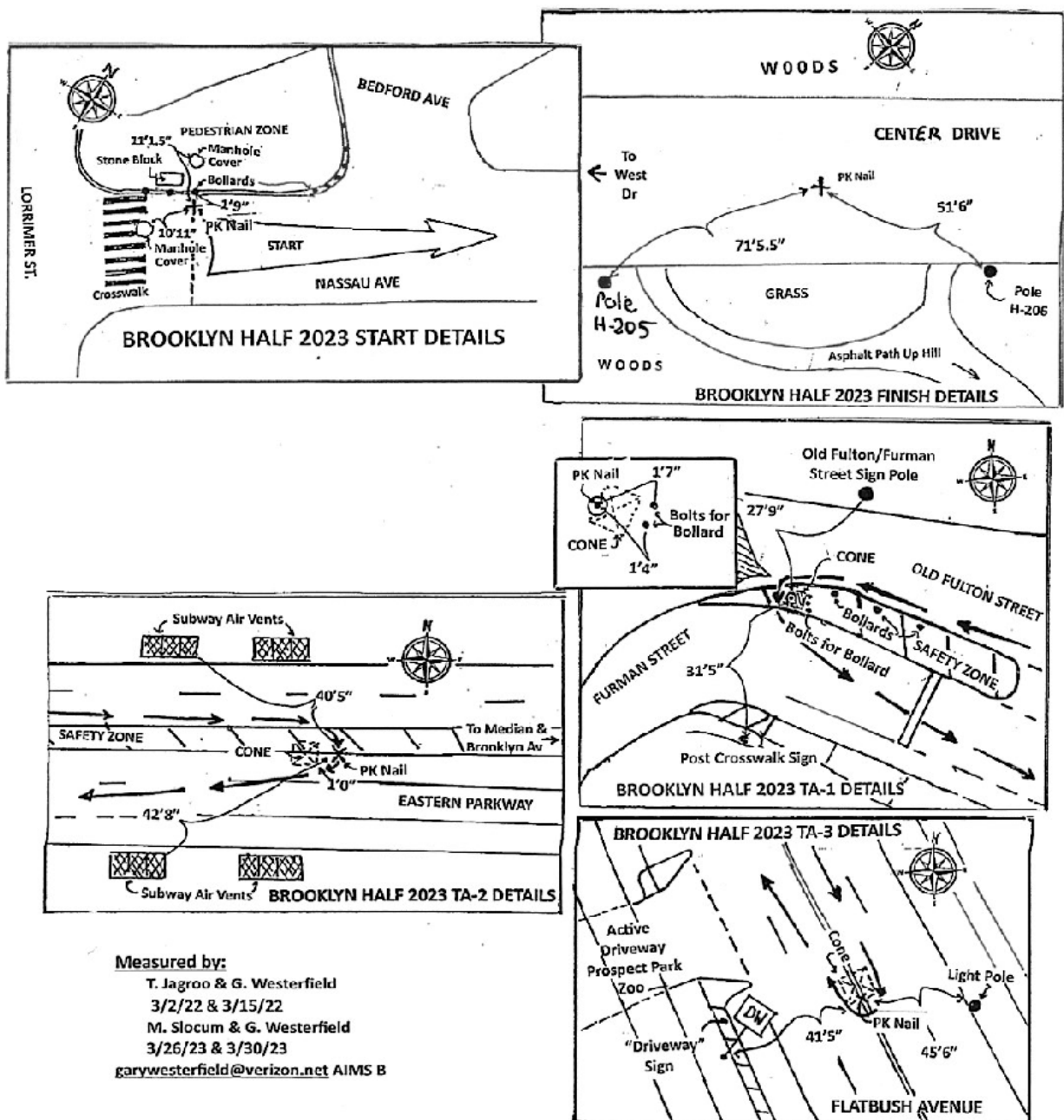
M. Slocum & G. Westerfield
3/26/23 & 3/30/23

garywesterfield@verizon.net AIMS B

Pg. 2

BROOKLYN HALF MARATHON 2023 - BROOKLYN, NY

Start/Finish & Turnaround Details



BROOKLYN HALF MARATHON 2023 COURSE NARRATIVE

Runners have total use of all roadways, unless noted, & may take the shortest route available (SRA) on all roadways or within restricted lanes.

Start on N side of Nassau Av, E of Lorimer St marked with PK nail & white "+", 1'9" S of 3rd bollard separating pedestrian island from street. Nail is 10'11" E of manhole cover at intersection crosswalk & 11'1.5" S of Manhole cover next to stone block in pedestrian island. (See diagram on Map Pg 2) Run E on Nassau Av &, left (N) on Manhattan Av. Turn left (W) on Greenpoint Av. Turn left (S) on Franklin St. Pass **1Mi**, on W-side of Franklin St at end of safety striping N of intersection w/N 15th St. S of Quay St, the bike lane may be used on Franklin Av for a direct path in to the N-bound Kent Av traffic lane. Mark with cones (See diagram on map) Do not use bike lanes on Kent after the merge. Run S and Pass **2Mi**, on E-side in line w/the bottom step at #331 Kent. Continue S on Kent Av. Stay on Kent Av approaching Williamsburg St W. Do not use turn lane from Kent to Williamsburg St. Pass **3Mi**, on W-side of Kent Av, 2m N of fire hydrant at intersection. Run straight (SE) to right turn (SW) on Williamsburg St W. Do not use bike path on Williamsburg St W. Pass **5km**, on W-side of Williamsburg St W, in line w/gate to Brooklyn Navy Yard (BNY). Turn right (W) on Flushing Av. Do not use bike path on Flushing Av. Pass **4Mi**, at right turn lane from BNY at 284 Flushing Av (Wegman's Market Café). Continue W on Flushing Av. Turn right (N) & then W on Navy St. Do not use bike lane.

In Dumbo, from Navy St, veer left (W) on York St. Then, turn Right (N) on Gold St & left (W) on Front St. At the end of Front St, veer right into W-bound Old Fulton St & pass **5Mi**, at SW corner of #1 Front St. Run to **Turnaround (TA) #1**, on Old Fulton at Furman St. Marked by PK nail and white circle in safety striping, 27'9" S of pole w/Old Fulton & Furman street sign & 31'5" N of crosswalk sign post on S side of Old Fulton. Place single cone E of PK nail. (See diagram on Map Pg.2 & See insert diagram for location of PK nail 1'7" SW & 1'4"NW of bolts from a removed bollard that was the last bollard in the safety striping.) After TA Run in E-bound lanes to Cadman Plaza W.

Turn right (S) on Cadman Plaza West. Stay in the S-bound lanes. Do not cross center lines. Veer right (S) on Court St & left (E) on Joralemon St. Continue E on Fulton St Mall. Pass **6Mi**, 2m E of "Do not Enter" sign at beginning of the mall. Pass **10km**, at NW corner of a storm drain in the intersection of Fulton St Mall & Hoyt St. Continue E, and then turn R (SE) in the S-bound lanes of Flatbush Ave. Do not cross center lines on Flatbush Av until Grand Army Plaza. Pass **7Mi**, at the NW corner of Dean St at the N edge of the Dean St bike lane. Continue SW on Flatbush Ave.

After the stop line at Plaza St West and St John's Pl, cross into the N-bound lanes of Flatbush Av and run to the left (E) to go clockwise (SE) around half of Grand Army Plaza. Turn left (E) into the W-bound lanes of Eastern Pkwy. Run E. Stay to the left of center & do not run in the median safety striping or turn lanes. Pass **8Mi**, 17m E of the 2nd crosswalk to the Brooklyn Museum (W of Washington Av)

In the center of Eastern Pkwy, approx. 50m W of Brooklyn Ave, make a 180° turn at **TA-#2** around a single cone at PK nail marked with white circle, 40'5" SE of the SE corner

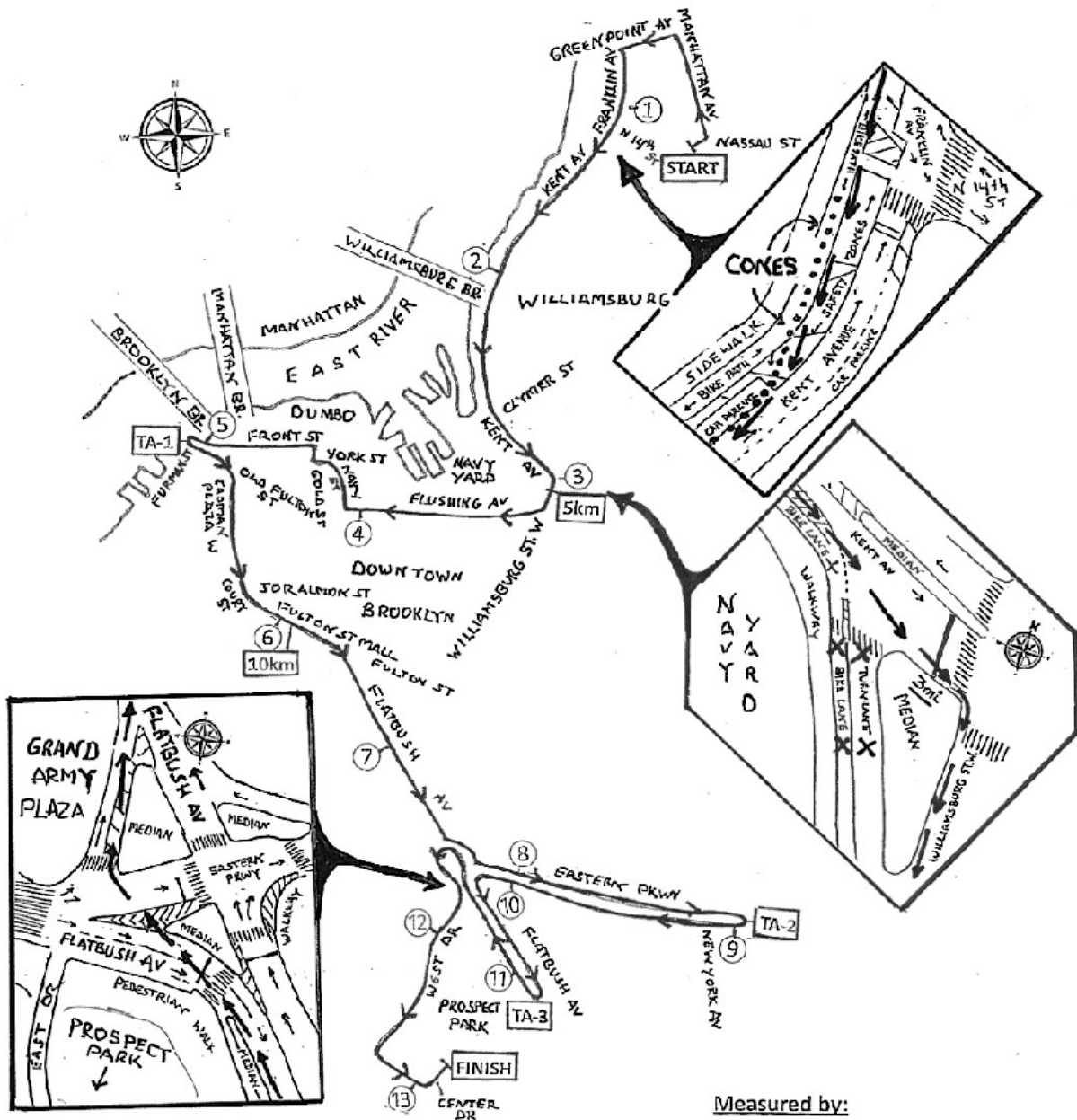
of the 1st subway vent on the N-side of Eastern Pkwy and 42'8" NE of the opposite 1st subway grate on the S-side of Eastern Pkwy (See diagram on Map Pg 2). Run W in the E-bound lanes & pass **9Mi**, 18m W of TA-2. Stay left of the center lines and turn lanes going W on Eastern Pkwy. Pass **10Mi**, 1m W of manhole cover in between the two crosswalks at the Brooklyn Museum. Turn left (S) into N-bound lanes of Flatbush Av. Stay left of center line. Run S to **TA-3**, S of two Crosswalks and Active Driveway at the Prospect Park Zoo. Marked by PK Nail & white circle 45'6" NW of light pole on E-side and 41'5" NE of "Driveway" caution sign on W-side. Place cone N of PK Nail (See diagram on Map Pg.2) Make 180 degree TA and run N in S-bound Flatbush Av. Stay left of center line. Pass **11Mi**, opposite the second drain to the outside of N-bound Flatbush Av, N of the crosswalk to Prospect Park Zoo. Continue N towards Grand Army Plaza. At Eastern Pkwy, veer to the left (NW) & then to the right (N) to the inside lane of Grand Army Plaza (N-bound Flatbush Ave). Run counter clockwise around (NE-N-NW-W-SW) Grand Army Plaza to the Flatbush Av S-bound lanes. Merge into Flatbush Av S-bound & cross over (S) to the N entrance of Prospect Park at W Drive.

Run S on West Dr. Stay right (SW) on West Dr. Runners are restricted to the inside (left) two lanes of West Dr, with full use SRA of the pedestrian & bicycle lanes. Pass **12Mi**, 4m W of the crosswalk to Garfield Totland. Continue S on West Dr & pass **13Mi**, 4m S of fire hydrant N of Center Dr. Turn left (E) on Center Dr, using the full width of the road to the **Finish**, marked with a PK nail and white "+" in the middle of Center Dr; 51'6" NW of pole H-206 & 71'5.5" NE of pole H-205 (See diagram on Map Pg.2).

Pg.4

BROOKLYN HALF MARATHON 2023 - BROOKLYN, NY

Course Restrictions



Measured by:

T. Jagroo & G. Westerfield
3/2/22 & 3/15/22

M. Slocum & G. Westerfield
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