Road Running Technical Council
USA Track & Field
Measurement Certificate

recognized by RRCA

Name of the course Pittsburgh Marathon - 2022 Alternate   Distance 42.195 km

Location (state) PA   (city) Pittsburgh

Type of course: Road Race

Measuring Methods: Bicycle

Measured By NIck Hubal, 810 River Ave, Ste 120, Pittsburgh, PA 15212, 412.586.7785, nick.hubal@p3r.org

Race Contact Brian Schmidt, 810 River Ave, Ste 120, Pittsburgh, PA 15212, 412.586.7785, brian.schmidt@p3r.org

Date(s) when course measured: 03/25/2022

Number of measurements of entire course: 2   Course Configuration: Partial Loop

Elevation (meters above sea level) Start 225.30 Finish 224.20 Lowest 217.80 Highest 299.30

Straight line distance between start and finish 787m   Drop 0.03   m/km   Separation 1.87   %

Type of surface: Paved 100 % Dirt 0   % Gravel 0   % Grass 0   % Track 0   %

Effective date of certification: April 20, 2022   Certification code: PA22006NP

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 25, 2022

Nathan Porch - USATF/RRTC Certifier - 1309 Park Ave, Ste 4R, Baltimore MD 21217
(856) 803-7678 - Nathanporch@gmail.com

Version: 2019b

PITTSBURGH MARATHON - 2022 Alternate
PITTSBURGH, PENNSYLVANIA

COURSE LAYOUT
Runners may run on either side of road as shortest possible route. The course was measured six inches from all curves and curbs. All references i.e. before and after, are relative to the way the runners are proceeding on the course at that point in the race.

Distance between Start & Finish Points:
2,582 ft. (0.489 miles)
Type: Partial Looped Course
Surface: 100% Paved
Restrictions: Unrestricted route

Width of Road
Widest width: 55 ft.
Narrowest width: 23 ft.

ELEVATIONS
Start - 225.3 m
Finish - 224.2 m
Highest - 299.3 m
Lowest - 217.8 m

MEASUREMENT DATES:
March 25, 2022

USATF Certificate
PA22006NP
Effective: 04/20/2022
Through: 12/31/2032

CALIBRATION COURSE:
PA16003NP
River Ave. North Shore
Calibration Course - 300 meters

RACE CONTACT
Brian Schmidt
810 River Ave. Suite 120
Pittsburgh, PA 15212
412-586-7785
brian.schmidt@p3r.org

MEASURED BY:
Nick Hubal
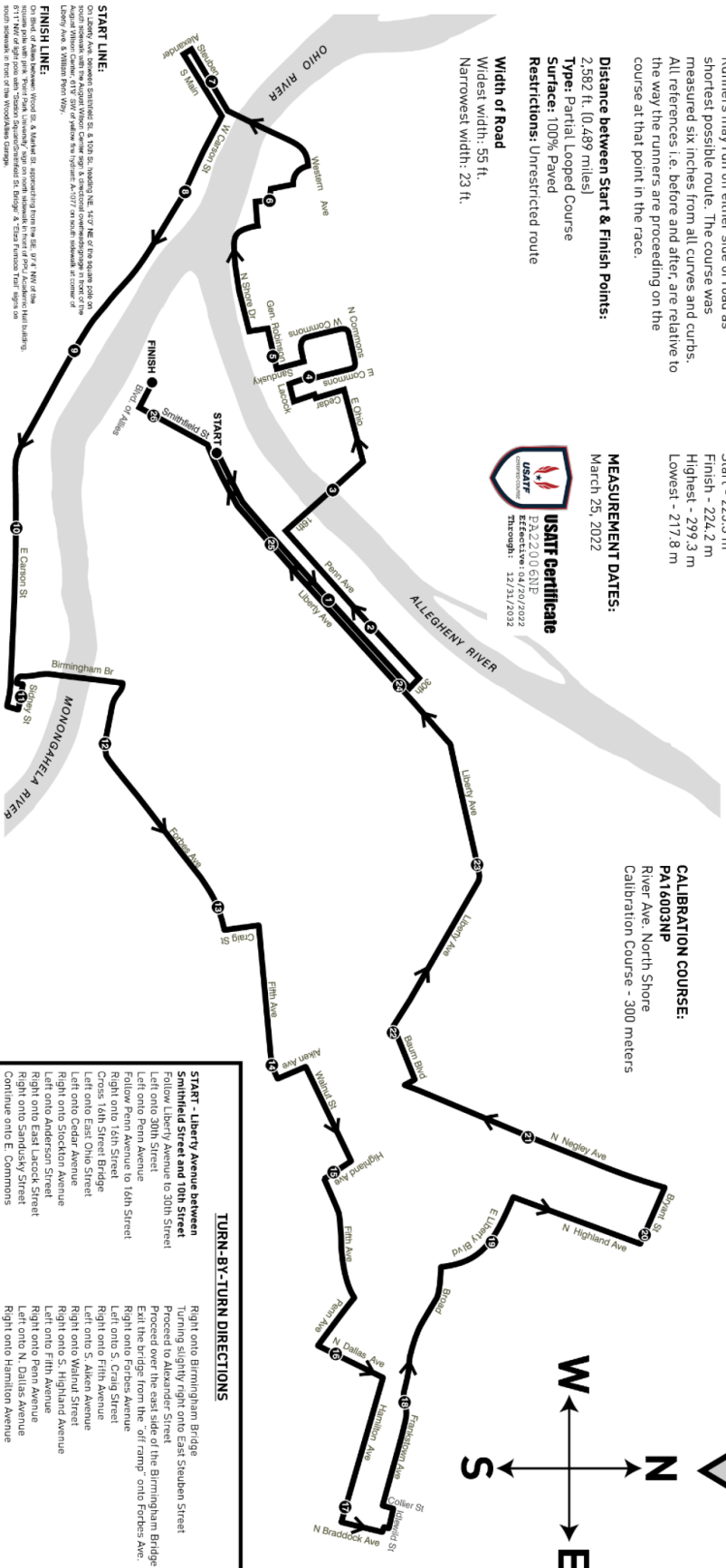810 River Ave. Suite 120
Pittsburgh, PA 15212
412-586-7785
nick.hubal@p3r.org

START LINE:
On Liberty Ave. between Smithfield St. & 10th St., heading NE. 14'0" NE of the square pole on south sidewalk with the August Wilson Center sign & directional overhead signage in front of the August Wilson Center. 6'9" SW of yellow fire hydrant A-1017 on south sidewalk in front of Liberty Ave. & William Penn Way.

FINISH LINE:
On Blvd. of Allies between Wood St. & Market St. appearing from the SW, 6'0" NE of the square pole with the "Port Authority" sign on north sidewalk in front of PNC Academic Hall building. 6'11" NW of light pole with "Station Square/Smithfield St. Bridge & "Eliza Furnace Trail" signs on south sidewalk in front of the Wood/Allies Garage.

TURN-BY-TURN DIRECTIONS

START - Liberty Avenue between Smithfield Street and 10th Street
Follow Liberty Avenue to 30th Street
Left onto 30th Street
Right onto North Shore Drive
Left onto Casino Drive
Right onto Sproat Way
Left onto Penn Avenue
Right onto Fontella Street
Right onto Reedsdale Street
Left onto 16th Street
Cross 16th Street Bridge
Left onto East Ohio Street
Left onto Cedar Avenue
Right onto Walnut Street
Right onto Stockton Avenue
Left onto Anderson Street
Right onto East Lacock Street
Left onto N. Dallas Street
Right onto Hamilton Avenue
Continue onto E. Commons
Right onto N. Braddock Avenue
Left onto N. Commons
Left onto W. Commons
Continue onto Idlewild Street
Continue right on N. Braddock Avenue
Left onto S. Commons
Right onto Federal Street
Left onto Collier Street
Right onto West General Robinson Street
Left onto Mazeroski Way
Right onto North Shore Drive
Right onto E. Liberty Boulevard
Left onto Casino Drive
Right onto N. Highland Avenue
Left onto Sproat Way
Right onto Bryant Street
Left onto N. Negley Avenue
Right onto Roup Avenue
Left onto Baum Boulevard
Right onto Baum Boulevard
Right onto Liberty Avenue
Right on to Liberty Avenue into downtown
Follow Liberty Avenue at Grant Street intersection
Left onto S. 24th Street
Left onto Sidney Street
Left onto S. 23rd Street

FINISH - on the Boulevard of the Allies between Wood Street and Market Street

Right onto Birmingham Bridge
Turning slightly right onto East Steuben Street
Proceed to Alexander Street
Proceed over the east side of the Birmingham Bridge
Exit the bridge from the "off ramp" onto Forbes Ave.
Right onto Forbes Avenue
Left onto S. Craig Street
Right onto Fifth Avenue
Left onto S. Aiken Avenue
Right onto S. Highland Avenue
Left onto Fifth Avenue
Right onto Penn Avenue
Left onto N. Dallas Avenue
Left onto Baum Boulevard
Right onto Liberty Avenue
Right on to Liberty Avenue at Grant Street intersection
Follow Liberty Avenue into downtown
Left onto Smithfield St.
Right onto the Boulevard of the Allies
Follow the Boulevard of the Allies to the finish line
FINISH - on the Boulevard of the Allies between Wood Street and Market Street

Measured Point	Mile/Kilometer Marker Location - all directions are from a runners perspective	
	Street	East Location
START	Liberty Ave. between 10th St. & Smithfield St.	*see description above*
Mile 1	Liberty Ave. past 23rd St.	42" before corner of transverse Local #1 Building (2315 Liberty Ave.) on left
Mile 2	Penn Ave. between 27th St. & 28th St.	22" past wood pole 14157# on right
Mile 3	North end of 16th St. Bridge	28" before silver light pole 2-A-15-10-C3 on right
5 KM	Chestnut St. between Progress St. & Carpenter Way	27" past black metal pole 176076 on right
Mile 4	Sandusky St. at Stockton Ave.	94" past silver pole 91415558 on right
Mile 5	W. General Robinson St. between Federal St. & Mazeroski Way	32" past silver pole 5125582 on right
Mile 6	Reedsdale St. at Sproat Way	3' past yellow fire hydrant F-212 on left
10 KM	Fulton St. between Ridge Ave. & Western Ave.	28" before wood pole 346588 on left
Mile 7	Steuben St. past 2nd island to turn towards S. Main St.	at wood pole S11508# on left
Mile 8	W. Carson St. past 1800 Gateway Plaza driveway	46" before wood pole 387-25C on right (at Jackson Welding & Supply)
Mile 9	W. Carson St. prior to Wabash Tunnel	6' past silver pole 5145221 on right
13 KM	E. Carson St. past S. 1st St.	at corner of "Albert's ATC" line & Auto" building on left
Mile 10	E. Carson St. past S. 10th St.	22' past black metal pole 100865 (UPMC South Side sign on pole) on right
Mile 11	Sidney St. between S. 24th St. & S. 23rd St.	26' before corner of brick house on left, address 2314 Sidney St.
Mile 12	Forbes Ave. between Birmingham Bridge & Blvd. of Allies overpass	4' past black light pole 5148555 on right
20 KM	Forbes Ave. prior to Collart Ave.	47" before silver light pole 3135574 on right
Mile 13	Forbes Ave. between Schenley Dr. Extension & S. Bellefield Ave.	1' before silver light pole 3119180 on right

Measured Point	Mile/Kilometer Marker Location - all directions are from a runners perspective	
	Street	East Location
Mile 14	5th Ave. past Wilkins Ave. intersection	9" before silver light pole 51-66337 on right w/ "Shadyside Business District" sign
15 KM	5th Ave. between Kentucky Ave. & 5th Ave.	at wood light pole 314425 on left
Mile 15	S. Highland Ave. between Kentucky Ave. & 5th Ave.	33" before silver light pole 5147997 on right
25 KM	5th Ave. prior to Bigelow St.	16" before silver light pole 4156 on side of road
Mile 16	N. Dallas Ave. between Meade St. & Lark Way	9' "0" before telephone pole 5119566
Mile 17	Hamilton Ave. between Collier St. & N. Braddock Ave.	24" before telephone pole 51356
Mile 18	Frankstown Ave. past Garrett St.	0' past wood pole 914814 on left
Mile 19	Frankstown Ave. at intersection of Lowell St.	1' before wood pole 5145900 on right
20 KM	E. Liberty Blvd. between Larimer Ave. & Negley Run Blvd.	20' before silver light pole 5133564
Mile 20	Bryant St. between Millbrae Way & N. Euclid Ave.	1' past silver light pole 5126227 on left (in front of Bryant St. Market)
Mile 21	N. Negley Ave. in middle of intersection of Rippey Pl.	38' past wood pole 1971 on right
25 KM	Baum Blvd. past Roup Ave.	27' past silver light pole 5146605 on left
Mile 22	Liberty Ave. prior to Baum Blvd.	43' past silver light pole 547427 on left
Mile 23	Liberty Ave. past Canoe Way	15' past wood pole 140700 on right (at carwash/avis budget rental)
Mile 24	Liberty Ave. past 30th St.	10' past black rusted pole 40068 on right
40 KM	Liberty Ave. between 20th & 17th St.	99' before black pole 5148555 on right (in front of Festival Printing Co.)
Mile 25	Liberty Ave. prior to 16th St.	20' before black pole 51U6108
Mile 26	Smithfield St. between 4th Ave. & 3rd Ave.	19' before silver light pole 149143 on left
FINISH	Blvd. of Allies between Wood St. & Market St.	*see description above*