

**RUNNER'S WORLD**

# HALF & FESTIVAL Half Marathon

21.0975km ≈ 13.1094mi

40° 36' 47.7", -75° 21' 26.5"  
(WGS84)



Course #  
**PA18029NP**

Effective Dates  
10-18-18 through 12-31-28

**NOTES:**  
Measurement assumes a single runner  
All locations are marked with a nail/washer where permissible  
Point notations are in relation to the runner's direction of travel  
Course has curb to curb access except where restrictions are noted  
Route line represents measurement along the Shortest Possible Route

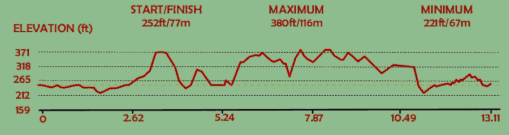
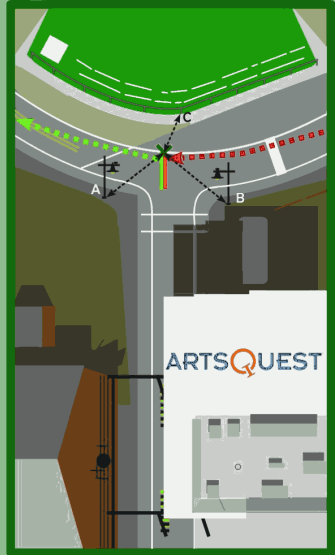
Measured by:  
**Nathan Porch**

Measured on:  
October 16<sup>th</sup>, 2018

Map by:  
**Nathan Porch**



nathan@getsetgoconsulting.com





*Road Running Technical Council  
USA Track & Field*

# *Measurement Certificate*



Name of the course Runner's World Festival Half-Marathon Distance 21.0975km  
 Location (state) Pennsylvania (city) Bethlehem  
 Type of course: road race  calibration course   
 Measuring method: bicycle  steel tape  electronic distance meter   
 Measured by (name, address, phone & e-mail) Nathan Porch, 1210 Bolton St., Apt. 3R, Baltimore, MD 21217  
856.803.7678 | nathan@getsetgoconsulting.com  
 Race contact (name, address, phone & e-mail) Aaron Nemzer, DMSE Sports Inc., 10D Roessler rd.  
Woburn, MA 01801, 617.201.1764, aaron@dmsesports.com  
 Date(s) when course measured: Oct. 16, 2018  
 Number of measurements of entire course: 2 Course Configuration: Single Loop  
 Elevation (meters above sea level) Start 80m Finish 80m Highest 116m Lowest 67m  
 Straight line distance between start & finish 0m Drop 0.00 m/km Separation 0.00 %  
 Type of surface: paved 100 % dirt \_\_\_\_\_ % gravel \_\_\_\_\_ % grass \_\_\_\_\_ % track \_\_\_\_\_ %  
 Effective date of certification: Oct. 18, 2018 Certification code: PA18029NP

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* 2028

**AS NATIONALLY CERTIFIED BY:**

Nathan Porch

Date: Oct. 18, 2018

Nathan J. Porch – USATF/RRTC Certifier

1210 Bolton St. Apt. 3R, Baltimore, MD 21217 | 856.803.7678 | nathan@getsetgoconsulting.com

## POINT DESCRIPTIONS

**Start: 40° 36' 47.7", -75° 21' 26.5"**

On Daly Ave heading West, (A) 99'2" bottom right corner of the 2<sup>nd</sup> storm drain from the intersection with Minisi Trail Bridge along the N curb. (B) 26'9" WSW of the bottom left corner of the 3<sup>rd</sup> storm drain from the intersection with Minisi Trail Bridge along the N curb. (C) 27'2" NW of the center of the 7" gas main cover located on the center median.

**Mile 1: 40° 36' 45.4", -75° 22' 32.7"**

On Columbia St. heading West, 24' before Webster St.

**Mile 2: 40° 37' 0.7", -75° 23' 6.4"**

On W. Lehigh St. heading W. 60' after Hill to Hill bridge.

**Mile 3: 40° 37' 2.5", -75° 24' 6.9"**

On 13<sup>th</sup> Ave heading S., centered on driveway (authorized vehicles only), for Westside Park Pool.

**Mile 4: 40° 37' 8.6", -75° 23' 13.5"**

On 2<sup>nd</sup> Ave. heading S, 17' before pole #65574/S47712

**Mile 5: 40° 37' 34.8", -75° 23' 3.8"**

On W Goepf St. heading NW, in front of house #221

**Mile 6: 40° 38' 9.8", -75° 23' 41.2"**

On Schoenersville Rd. heading NNW, adjacent to Wawa, 40' after pole #65344/S45320

**Mile 7: 40° 38' 30.1, -75° 22' 59.0"**

On Illicks Mill Rd. heading East, 10' after pole #65659/S48527

**Mile 8: 40° 38' 46.7", -75° 22' 56.9"**

On W. Langhorn Ave. heading East, in front of house #208

**Mile 9: 40° 38' 21.8", -75° 22' 32.4"**

On Center St. heading South, at 1<sup>st</sup> (northern most) driveway for Northfield Apartments

**Mile 10: 40° 37' 43.8", -75° 22' 53.7"**

On Main St. heading South, Even with Laurel Ave sign

**Mile 11: 40° 37' 8.3", -75° 22' 31.9"**

On Center St., heading South, in front of house #407

**Mile 12: 40° 36' 46.8", -75° 22' 14.4"**

On E.2<sup>nd</sup> St. heading East, 3' before the E. edge of the National Museum of Industrial History building

**Mile 13: 40° 36' 52.4", -75° 21' 57.7"**

On E.1<sup>st</sup> St. heading West, even with the 2<sup>nd</sup> light pole from the W end of the abandoned building on the N side of the road

**Finish: 40° 36' 51.8", -75° 22' 4.9"**

Same as Start, approaching from the East



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**PA18029NP**

## ROUTE NARRATIVE

**Start:** Traveling West on 1<sup>st</sup> Ave with **full access**

**Left** onto Polk St. with **full access**

**Left** onto 2<sup>nd</sup> Ave. with **full access**

**Right** onto Foundry Way with **full access** right of median

**Right** onto E. 3<sup>rd</sup>. Street with full access

**Right** onto Polk St. with **full access**

**Left** onto Columbia St. with **full access**

**Straight** onto Northbound ramp of Fahy Bridge with **restricted access** to the North bound side

**Left** at end of Fahy Bridge onto W. Lehigh with **full access**

**Right** onto 13<sup>th</sup> Ave with **full access**

**Right** onto Spring St. with **full access**

**Left** onto 11<sup>th</sup> Ave with **full access**

**Right** onto Prospect Ave with **full access**

**Right** onto 2<sup>nd</sup> Ave. **restricted to right (West) side of median divider**

**Left** onto Spring St. with **full access**

**Left** onto Main St. with **full access**

**Left** onto W. Goepf St. with **full access**

**Continue** onto Maunch Chunk Rd. with **full access**

After passing E. Elizabeth St and crossing small bridge, Maunch Chunk turns into Schoenersville Rd.

On Schoenersville Rd from small bridge to Illicks Mill Rd **restriction to right (with traffic) side of road**

**Right** onto Illicks Mill Rd with **full access**

**Left** onto Main St. with **full access**

**Left** onto Moreland Ave. with **full access**

**Right** onto Langhorne Ave with **full access**

**Right** onto Main St. with **full access**

**Left** onto Moreland Ave with **full access**

**Right** onto Center St. with **full access**

**Right** onto E. Washington Ave. with **restriction to North of median (with traffic lanes)**

**Left** onto Main St. with **full access**

**Left** onto E. Fairview with **full access**

**Right** onto Center St. with **full access**

**Left** onto Fahy Bridge **restricted to Southbound vehicle lanes**

**Right** onto Fahy Bridge Southbound exit ramp with **full access** onto E. 2<sup>nd</sup> Ave

**Slight left** onto Columbia St. with **full access**

**Left** onto Polk St. with **full access**

**Right** onto E. 2<sup>nd</sup> St. with **full access**

**Right** onto Founders Way with **restriction to right (West) side of median divider.**

**Left** onto Daly Ave. with **restriction** to the Northbound side of the bridge

**Left** onto Sands Blvd with **restriction to left (West) side of median divider around right bend.**

**Stay left** at first circle and continuing North on Sands Blvd to 2<sup>nd</sup> circle

**Stay left** into second circle and take first left into parking area access lane heading West with **full access**

**Left** under rail bridge onto E.1<sup>st</sup> Ave **restricted to left (East) side of railroad support beams (against traffic side)**

**Continue** with **full access** on E. 1<sup>st</sup> Ave to finish