



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



Name of the course Oktoberfest Half Marathon Distance 21.0975 km
Location (state) NC (city) Asheville
Type of course: Road Race
Measuring Methods: Bicycle
Measured By Timothy Grotenhuis - 17 Sylvan Ave - Asheville, NC 28801 - (828) 301-3071 - tim@kickitevents.com
Race Contact Leslie Grotenhuis - 17 Sylvan Ave. Asheville, NC 28801 - 828-301-3075 - leslie@kickitevents.com
Date(s) when course measured: 08/26/2023
Number of measurements of entire course: 2 Course Configuration: complex of different loop
Elevation (meters above sea level) Start 601.07 Finish 601.07 Lowest 596.8 Highest 607.47
Straight line distance between start and finish 0 m Drop 0.00 m/km Separation 0.00 %
Type of surface: Paved 95 % Dirt 5 % Gravel 0 % Grass 0 % Track 0 %
Effective date of certification: September 10, 2023 Certification code: NC23022DF

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: **2033**

AS NATIONALLY CERTIFIED BY:

Date: September 11, 2023

Dick Forbis - USATF/RRTC Certifier - 117 W. Carr Street, Carrboro NC 27510
(919) 360-6006 - dick_forbis@unc.edu

Oktoberfest Half Marathon

Asheville, North Carolina

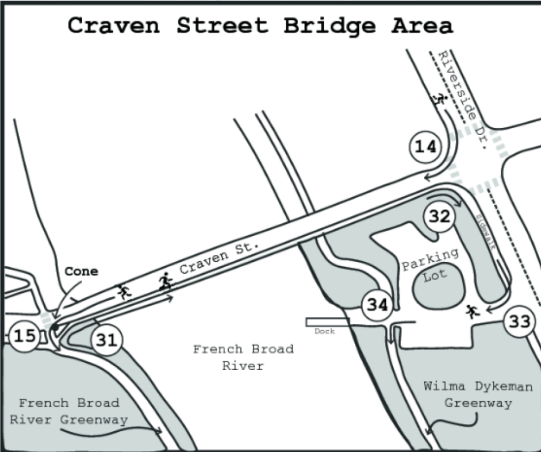
Measured on: August 26th, 2023
Measured by: Tim Grotenhuis
tim@kickitevents.com



Course measures
21.0975 km using
Shortest Possible
Route

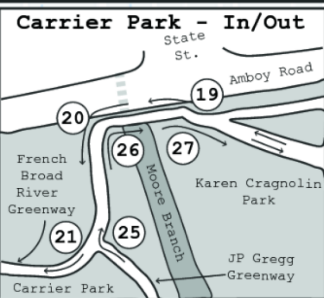
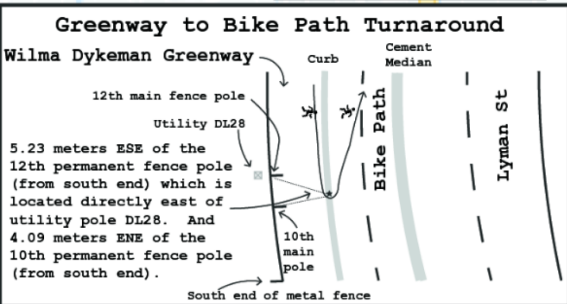
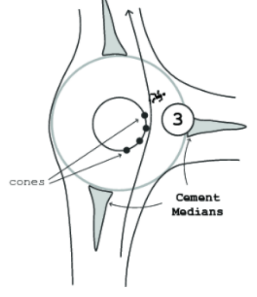
Legend

- Circled numbers are route turns and key info
- Mile markers
- Path of travel
- Direction of travel

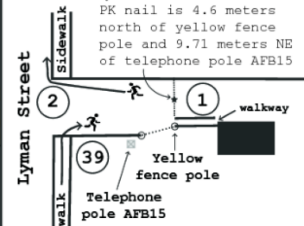


See Route
Details page
for course/road
restrictions

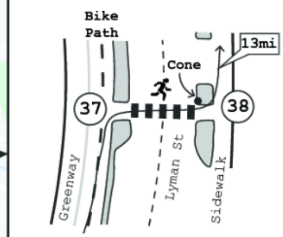
Traffic Circle



Start/Finish Area



Crosswalk to Cone



Runners will
use the full
width of all
greenways

Runners will
use the full
width of the
bike path



USATF Certificate
NC23022DF
Effective: 09/10/2023
Through: 12/31/2023

Route Details

1. Start at the entrance to Hi-Wire Beer Garden.
2. Right on Lyman Street, staying to the right of the yellow line.
3. Through the traffic circle, staying on the road, to the right of the circle center. Continue on Riverside Drive. Stay to the right of the center yellow lines and traffic cones placed on the yellow lines.
4. Continue north on Riverside Drive past Hill Street, staying to the right of the center yellow lines and traffic cones placed on the yellow lines.
5. Right on Broadway Avenue, running on the eastbound sidewalk.
6. Right on the Reed Creek Greenway just past the intersection of WT Weaver Blvd. Use the full width of the greenway.
7. Right on Elizabeth Street. Use the full width of the road.
8. Left on Cumberland Avenue. Use the full width of the road.
9. Right on Bearden Avenue. Use the full width of the road.
10. Cross Montford Ave and continue on Courtland Avenue. Use the full width of the road.
11. Stay to the right to continue down Courtland Avenue.
12. Hard right onto Hill Street, staying to the right of center yellow lines and traffic cones placed on the yellow lines.
13. Left onto Riverside Drive after the last cone (Cone A) on Hill St, crossing over to the cone (Cone B) in the bike lane. Runners run from Cone A to Cone B as described in the Course Marker Locations section.
14. Right on Craven Street, crossing the bridge. Use the full width of the road.
15. Left onto French Broad River Greenway to the right of the cone. Use the full width of the greenway.
16. Turn right and continue on the greenway counterclockwise through French Broad River Park.
17. Turn right and continue on the greenway under Amboy Road bridge.
18. Continue on the greenway through Karen Cragnolin Park.
19. Left onto the sidewalk.
20. Left into Carrier Park on the greenway.
21. Right and continue on French Broad River Greenway through Carrier Park.
22. Left onto JP Gregg Memorial Greenway (hard packed dirt, unpaved).
23. Right to remain on JP Gregg Memorial Greenway.
24. Right to remain on JP Gregg Memorial Greenway (hard packed dirt, unpaved).
25. Right onto the French Broad River Greenway.
26. Right onto the sidewalk.
27. Right onto the French Broad River Greenway into Karen Cragnolin Park.
28. Exit Karen Cragnolin Park and continue on the greenway.
29. Just past Amboy Road bridge, turn right and continue on the greenway counterclockwise through French Broad River Park.
30. Right and continue on French Broad River Greenway
31. Right on Craven Street, crossing the bridge. Stay on the sidewalk.
32. Right on Riverside Drive. Stay on the sidewalk.
33. Right through Craven St. bridge river access parking lot.
34. Left onto Wilma Dykeman Greenway, using the full width of the greenway.
35. Stay on Wilma Dykeman Greenway as the bike path starts to run parallel with it.
36. U-turn off of the greenway onto the bike path, using the full width of the bike path.
37. Right at the crosswalk, crossing Lyman St to cone.
38. Left onto the sidewalk, running parallel to Lyman St.
39. Right into the entrance to Hi-Wire Beer Garden to Finish.

Course Marker Locations

Mark	Latitude	Longitude	Description
S/F	35.583261	-82.566744	PK nail is 4.6 meters north of yellow fence pole and 9.71 meters NE of telephone pole AFB15
Mile 1	35.596315	-82.57243	In the northbound lane of Riverside Dr, 42 feet NE from the 25 mph speed limit sign on the southbound side and 59 feet east from AOC28 utility pole.
Mile 2	35.609702	-82.576755	On northbound Riverside Dr, 57 feet SW from a storm drain and 58 feet NW from the No Parking Anytime sign which are both on the east side of Riverside Dr.
Mile 3	35.610327	-82.566393	On Reed Creek Greenway after Broadway intersection, 22'6" NW from the center of a manhole cover AND 129ft from a permanent bench. Both points are on the right hand side of the greenway and further down in the direction of travel.
Mile 4	35.600768	-82.559833	In front of 86 Elizabeth Street. It is between two manhole covers, one 28 feet west of mile 4 and one 65'6" east.
Mile 5	35.596587	-82.572078	In the westbound lane of Hill Street, 23'4" from the speed limit sign on the south side of Hill Street and 27'11" from the bus stop sign on the north side of Hill Street.
Mile 6	35.584564	-82.5685927	On the FBR Greenway, south of Haywood Street and 25'3" feet south of where the giant rock is closest to the greenway pavement. In line with 8 major and 6 minor (from the south end) fence poles of the metal fence on the east side of the greenway.
Mile 7	35.571482	-82.56568	On FBR Greenway, 12 feet east from the "V" tree and 90 feet north from a permanent bench on the west side of the greenway.
Mile 8	35.5661658	-82.5770761	On FBR Greenway, 31 feet east from the corner of the intersection with the walkway to the parking lot circle and 22'3" north of a stand of three birch trees.
Mile 9	35.5654231	-82.5746329	On JP Gregg Greenway, 133 feet ESE of permanent bench on inner paved greenway circle and 50 feet WSW from a tree.
Mile 10	35.572353	-82.565553	On the FBR Greenway, 45 feet NW from the SW green pipe (of four) in the drainage field and 14'6" from the directional sign on the east side of the greenway next to the dog park.
Mile 11	35.5855139	-82.5691332	On the FBR Greenway, north of Haywood Street and 38 feet north of the end of the metal fence on the east side of the greenway.
Mile 12	35.5829667	-82.56727839	On the Wilma Dykeman Greenway, 26 ft south of the metal fence on the right side of the greenway and 27'10" from the permanent bench on the left side of the greenway.
Mile 13	35.5818777	-82.5670577	On the sidewalk on the east of Riverside Dr, 42'10" north of the crosswalk sign and 32'6" south of the yellow fire hydrant.
Cone A	N/A	N/A	PK nail is 5.9 meters SE from the SE corner of the storm drain on the north side of Hill Street (eastbound lane). It is located at the end of the two yellow lines where it meets the white stop line. It's also 26.28 meters from Cone B.
Cone B	N/A	N/A	PK Nail is 11.18 meters east of utility pole AOC28, on the bike lane line closest to the road. It's also 5.55 meters east of the east most railroad tie and 26.28 meters from Cone A.