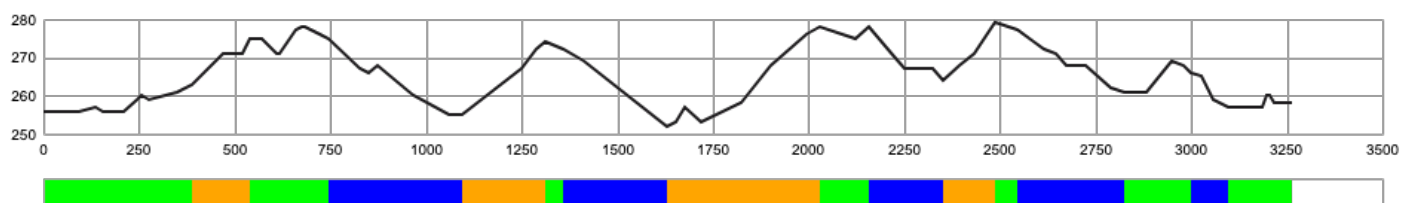




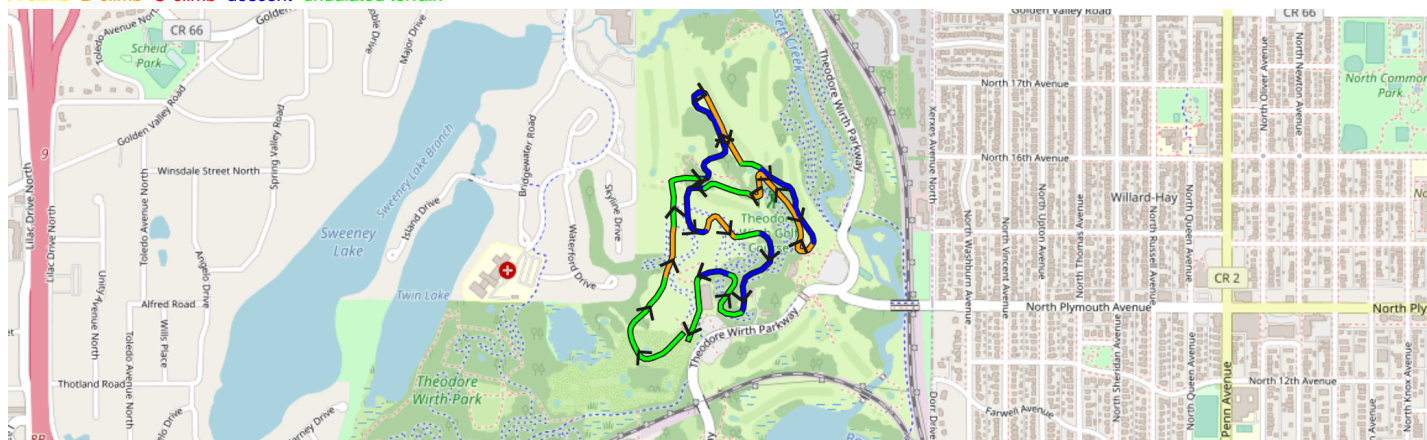
CERTIFICATE
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE
FIS CROSS-COUNTRY COMMITTEE

(1) Registration number:	WC23/98.02/3.3
(2) Name of the competition site:	Theodore Wirth Park
(3) Name of city/region:	Minneapolis MN
(4) Organizer:	Loppet Foundation
(5) National ski association:	U.S. Ski & Snowboard
(6) Contact person in the organizing committee:	Doug Debold
(7) Homologation inspector:	Allan Serrano
(8) Name of course:	Trail 18 3.3 km
(9) Competition level for course	WC

Course length:	3,265m	Height difference (HD):	27m	Lowest point:	252m
Course category:	D	Maximum climb (MC):	30m	Highest point:	279m
		Total climb (TC):	108m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Michal Lamplot

Lamplot, Michal
FIS International Ski and
Snowboard Federation
Blochstrasse 2 / Postfach
CH - 3653 Oberhofen

FIS Stamp



FIS Homologation
Responsible

Allan Serrano

Allan Serrano

Date of Issue

02.10.2023

Valid until

30.06.2028

(10) Overview of the uphill:

	No.	PTC	% of TC
- shorter climbs	4	76	70.4
- descents	5	2	1.9
- undulated terrain	7	30	27.8

(11) Stadium area:

Fixed stadium area	no	Indoor working room:	Timekeeping	no
Fixed building	no		Announcer	no
Temporary stadium	no		Jury	no
Temporary building	no		Race office	no
Good infrastructure (access, parking, media, etc.)	no			
Skitesting area along course/near stadium	no			
Warm up track near the stadium	no			

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes	yes		yes	yes
Course suitable for following competition formats with					
a) Classical technique	yes			yes	yes
b) Free technique	yes			yes	yes
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)					

(13) Possibility of snow making:

Snowmaking on the entire course.

(14) Map Material:

Good.

(15) Source of accurate elevation data:

1 meter resolution DEM generated from bare earth LIDAR in 2017

(16) Safety considerations:





None

(17) General remarks:

(18) Date of first inspection: 2023/9/26

(19) Date of final inspection: 2023/9/26

(20) Summary of terrain characteristics

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb		total		0			0.0% part of TC
B-climb		1	390	12	12	17.9 - 17.9	7.9
		2	1,094	19	19	7.8 - 11.9	8.8
		3	1,631	26	30	-9.3 - 16.5	6.5
		4	2,353	15	15	7.6 - 15.2	11.2
		total		76			70.4% part of TC
C-climb		total		0			0.0% part of TC
undulated terrain		total		30			27.8% part of TC
		total climb		108			