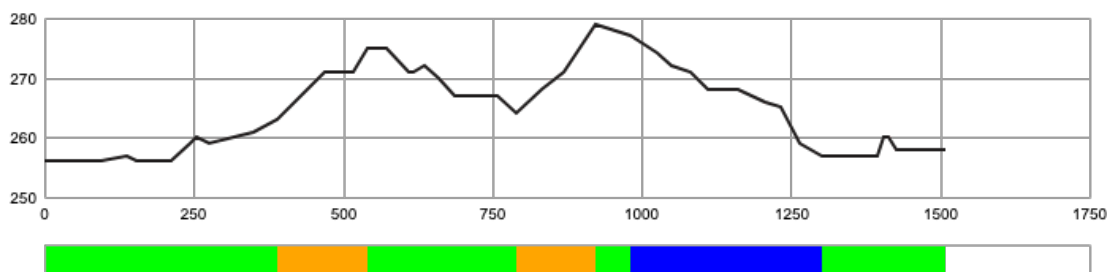




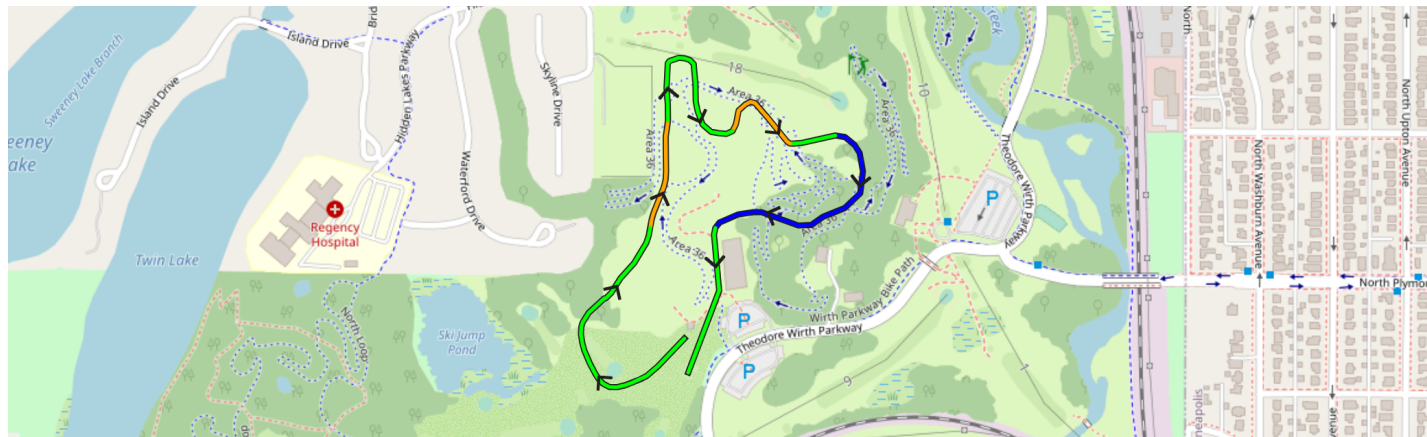
CERTIFICATE
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE
FIS CROSS-COUNTRY COMMITTEE

(1) Registration number:	WC23/98.01/1.5
(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:	Sprint 1500
(9) Competition level for course:	WC

Course length:	1,508m	Height difference (HD):	23m	Lowest point:	256m
Course category:	D	Maximum climb (MC):	15m	Highest point:	279m
		Total climb (TC):	40m		



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	2	27	67.5
- descents	1	0	0.0
- undulated terrain	4	13	32.5

(11) Stadium area:

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

(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) Classssical technique		yes			
b) Free technique		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: 2023/9/27

(19) Date of final inspection: 2023/9/27

(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	789	15	15	7.6 - 15.2	11.2
		total		27			67.5% part of TC
C-climb		total		0			0.0% part of TC
undulated terrain		total		13			32.5% part of TC
		total climb		40			