# Turning Zone Demarcation in Classic Technique Competitions



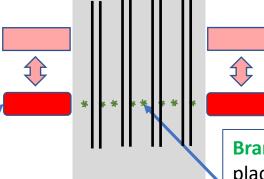
- no signage required

- World Cup level Mass Start is illustrated but for lower level competitions and Interval Start formats fewer tracks (2-3) would be used and the branches/whiskers are eliminated.

**RED V – boards** perpendicular at both sides of the track inside fencing line are the de facto indicators of the zone's limits.

**Caution!** These cannot interfere with the course, half size V-boards may be used. These V-boards can be moved if the zone is adjusted and tracks can be left inside the turning zone





#### **Branches or Whiskers**

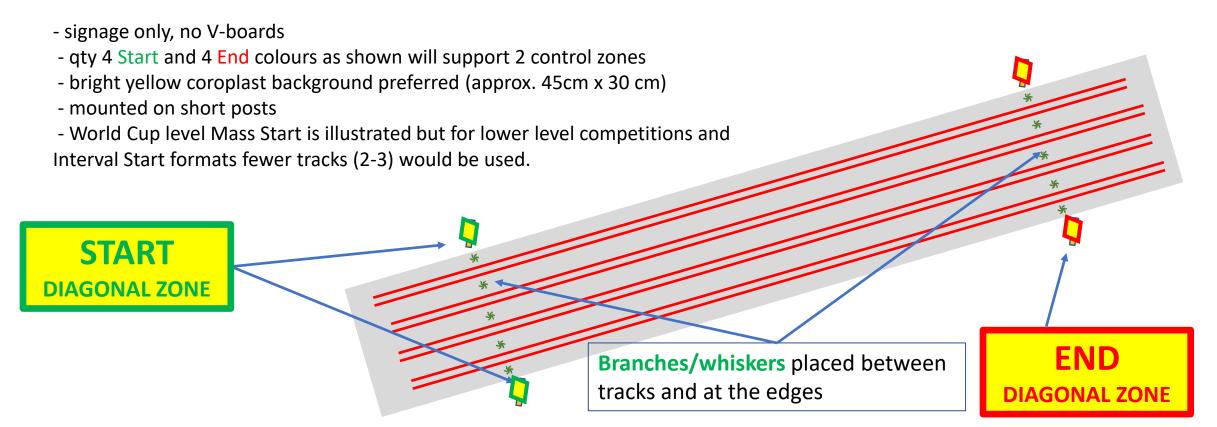
placed between the tracks are optional but provides a better visual marker for high level competitions

### **Placement details:**

The positions for lifting and starting track-setting are marked with stakes as a reference for the course groomer. These are inspected/confirmed with the TD. Adjustments can be made following training and when changing course conditions dictate. Finishing turning zones too early is a common mistake that leads to un-necessary sanction considerations, better to extend them an extra metre or two after the tracks start, relative to the speed in the curve.

Turning Zones can also be placed on long and short downhills during which skiers will need to turn in one or more directions, here tracks are optional but most often they are removed.

# Technique Control Zone Demarcation – Classical Technique Competitions

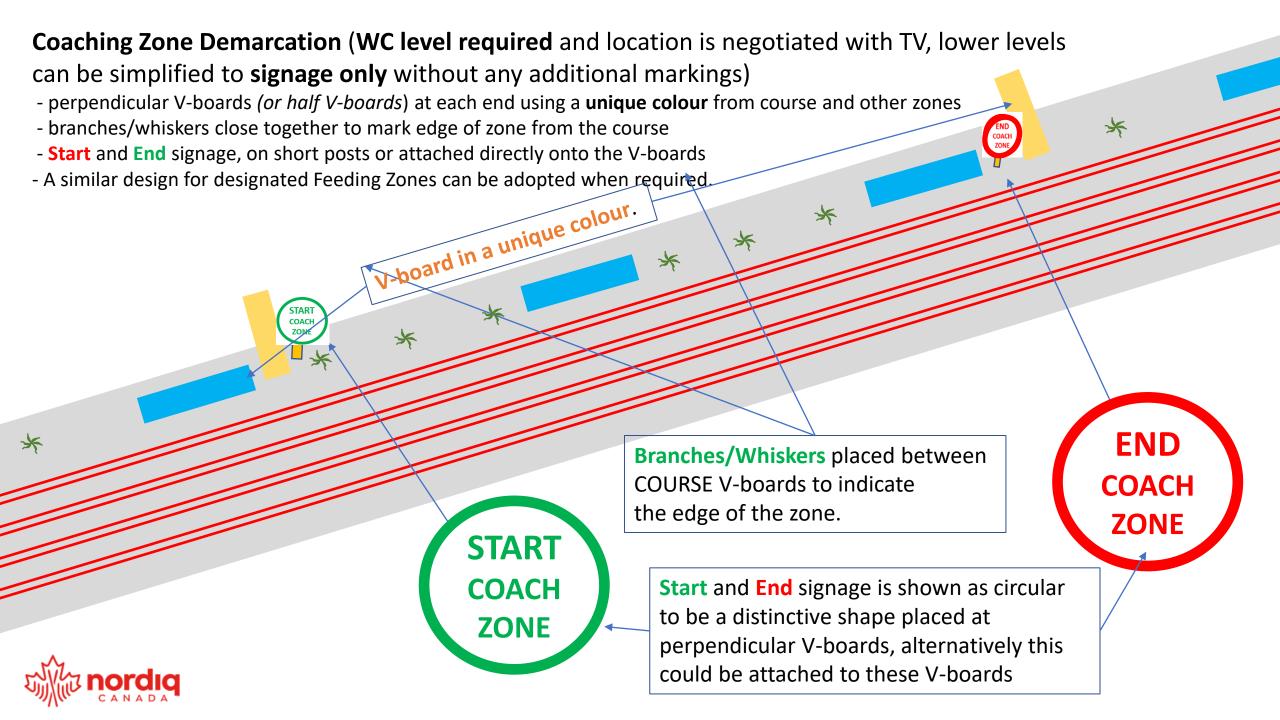


**Placement Details:** To be located on an uphill with avg gradient 14-16%, zone length 50 – 70 m, ideally straight or with slight curve and not too short. The START location must be placed part way up the hill 2-3 metres after the natural transition into Diagonal Technique, this point depends on the speed for the faster skiers in the days competition. The END should be marked just before the skier crests the top of the climb, these positions must be confirmed by the TD and observed during training.

The most common error in setting this zone is that it starts too early and skiers with too much speed cannot easily or naturally make the change into diagonal technique until they slow down.

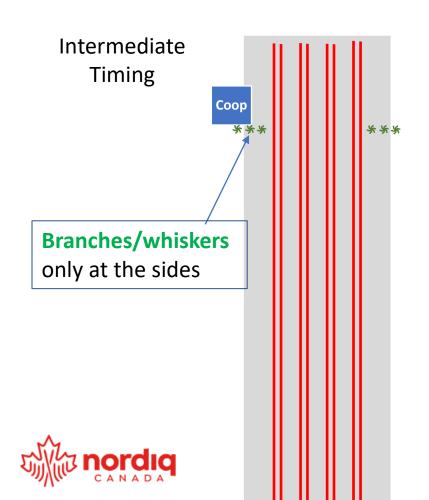
It may be a fact that some courses do not offer any good possibilities, new courses should are to consider this need in designing good uphills. These technique control zones must be controlled by video recoding if at all possible.

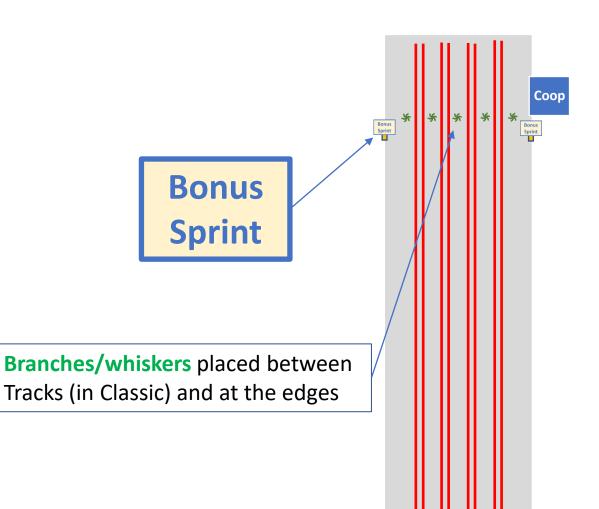




# **Timing Points Demarcation** – Intermediate Times and Bonus Sprint (WC only)

- FIS Marketing towers on the side
- No V-boards are required





## **Finish Corridors & Finish Line**

(fewer corridors/tracks required below WC level)

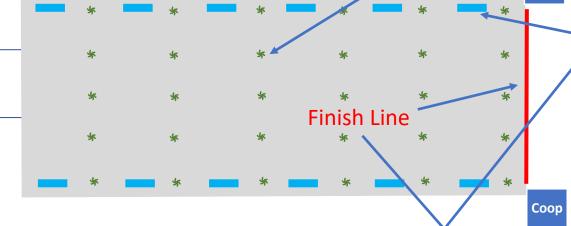
Branches/whiskers placed between tracks or corridors and at the edges Course V-boards on the edge of defined track

Coop

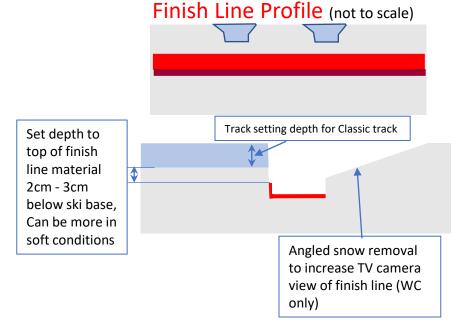
歩

蛅

Free Technique - marked corridors



V-Boards are placed to define the edge of the course. When fewer corridors or tracks are used as per ICR, the v-boards should be moved in to within .5 m from the tracks or defined corridor. This is an ideal opportunity to use 'closed ended' v-boards to reduce risk of ski snags.



Classic Technique - marked corridors



# **Relevant FIS ICR technique references:**

**Section 310.2 Technique Definitions** 

### **Course, Start & Finish Zone specifications**

**Section C. Competition Formats** 

- **3**21. Interval Start
- 322. Mass Start Comp.
- 323. Skiathlon Comp.
- 324. Pursuit Comp.
- 325. Individual Sprints
- 326. Team Sprints
- 327. Relay Comp.

## **Relevant FIS Homologation Manual references:**

**Sections - 4.6 Sprint Competitions** 

- **5.1 Uphill Terrain (**last paragraph**)** 

