4) Warning signs such as the one to the right are common before bridges. And they are put there for good reason.

Explain why the bridge get icy before the pavement on the ground when air temperatures drop below freezing.¹

Assume calm winds to simplify the analysis.



¹ Ahrens, C.D. and R. Henson (2018), Essentials of Meteorology: An Invitation to the Atmosphere, 8th Edition. 508 p.