



Rail Accident Investigation Branch

Railway Accident Investigator Seminar

Investigating the derailment of a passenger train at Carmont

Overview of the accident and causes

Nick Bucknall

RAIB

Carmont, Aberdeenshire

12 August 2020



Image: M Davidson





Rail Accident Report

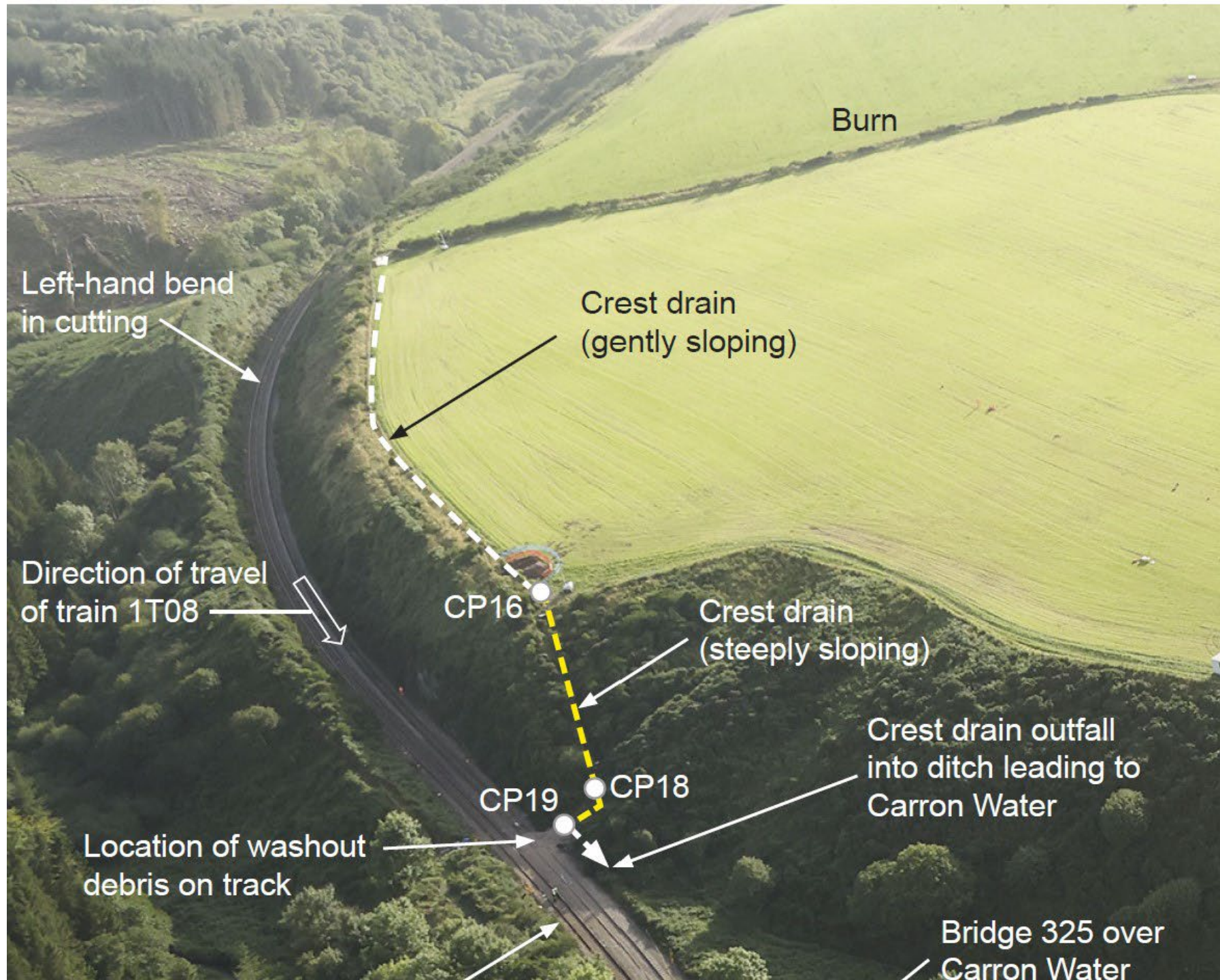


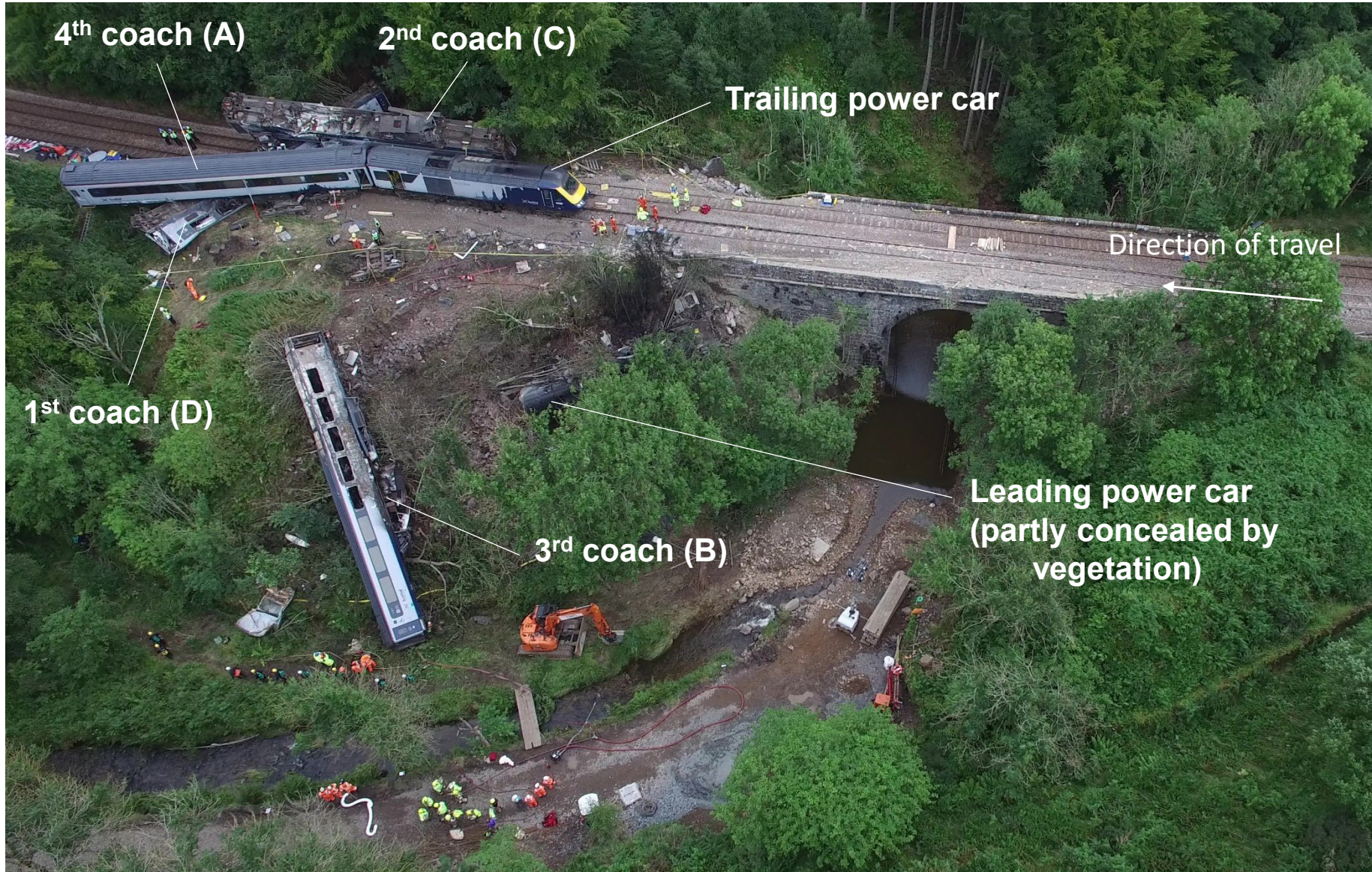
**Derailment of a passenger train at Carmont,
Aberdeenshire
12 August 2020**

Report 02/2022
March 2022

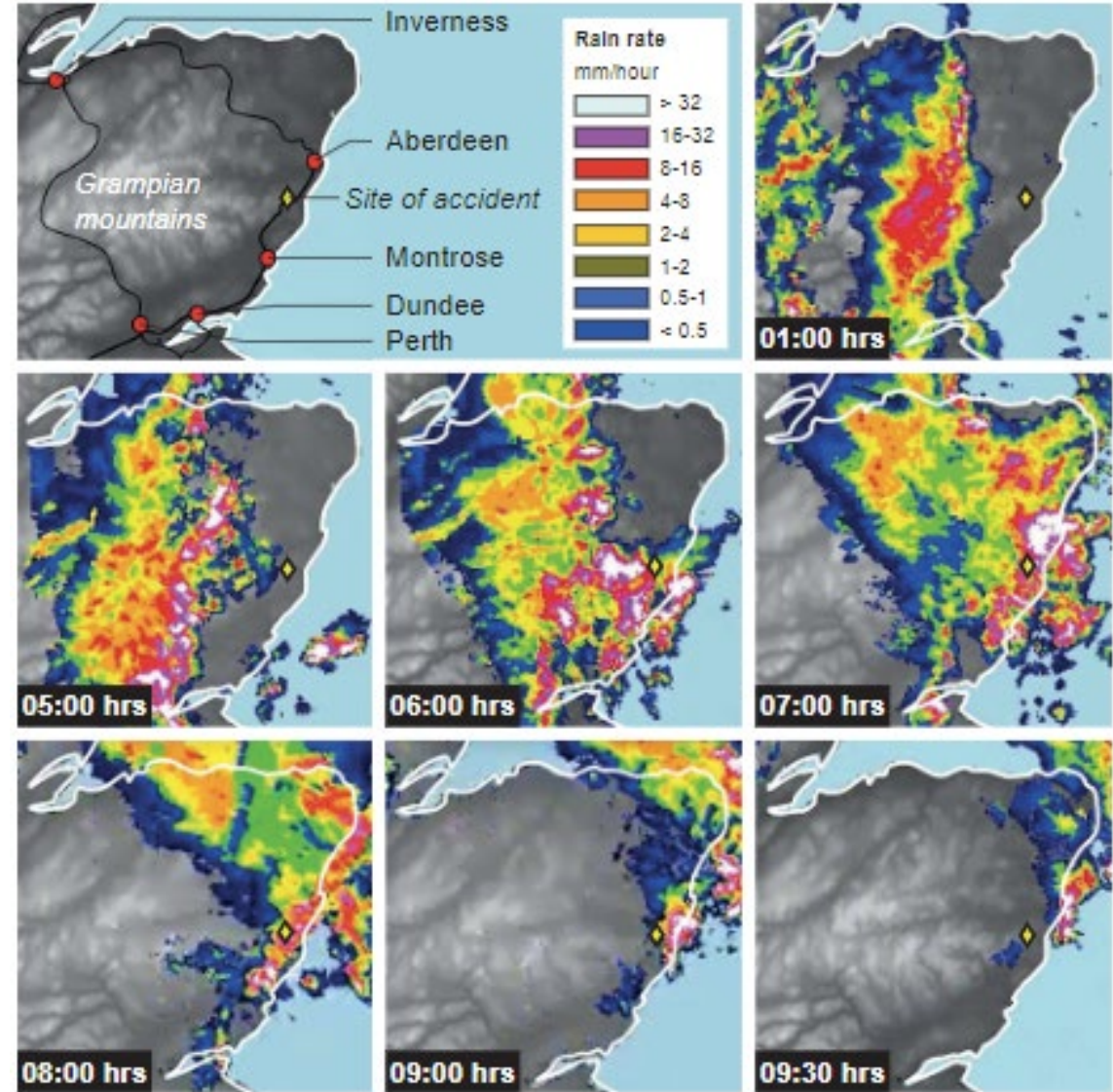
Image: RAIB

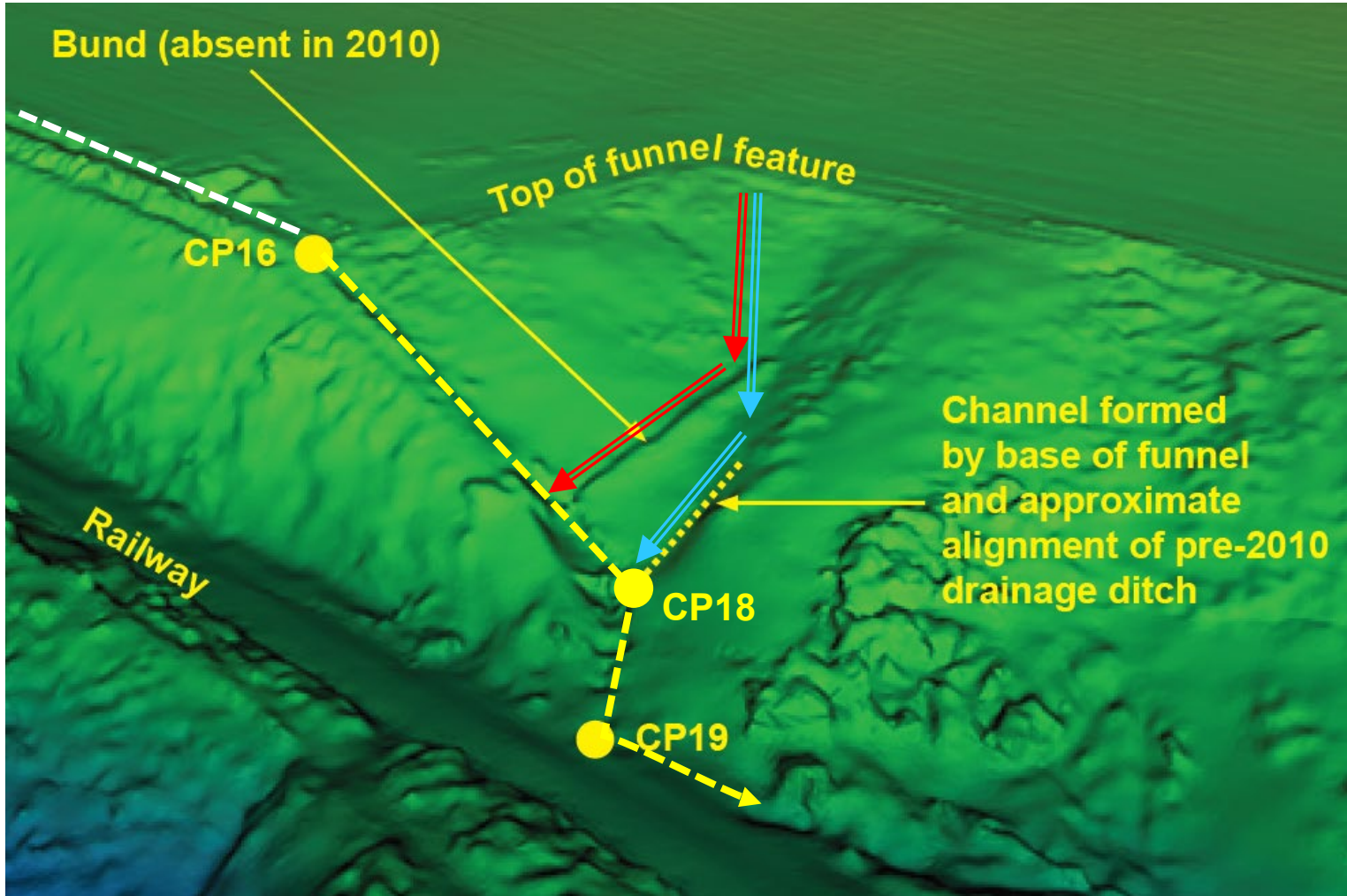






The weather – a rainfall event that could be expected at that location once in 100 years





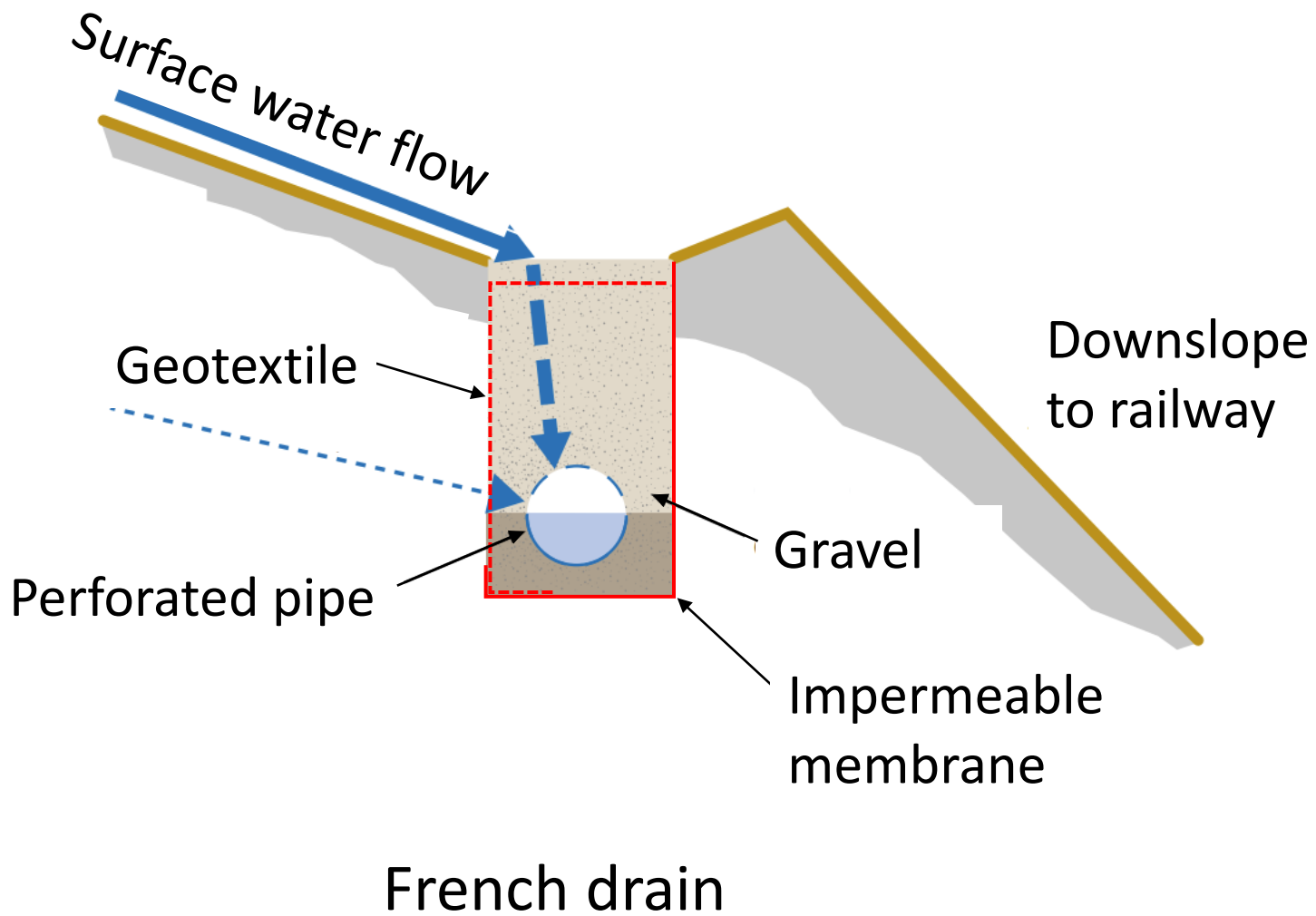
Site topography from LiDAR data

Infrastructure

The drain was not installed as designed



Bund (was hidden by gorse)

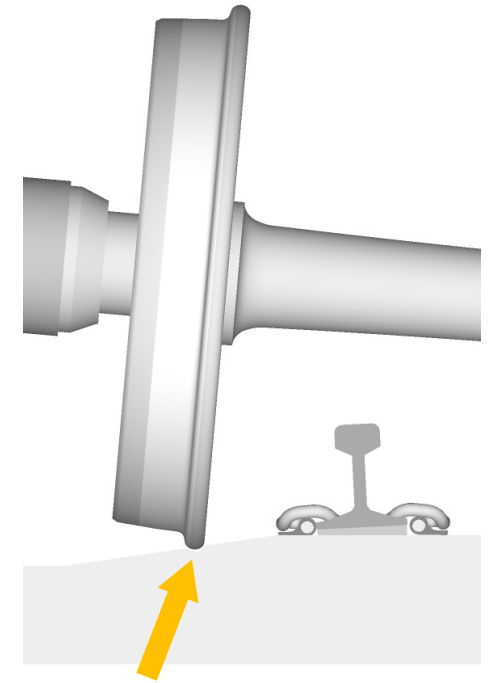
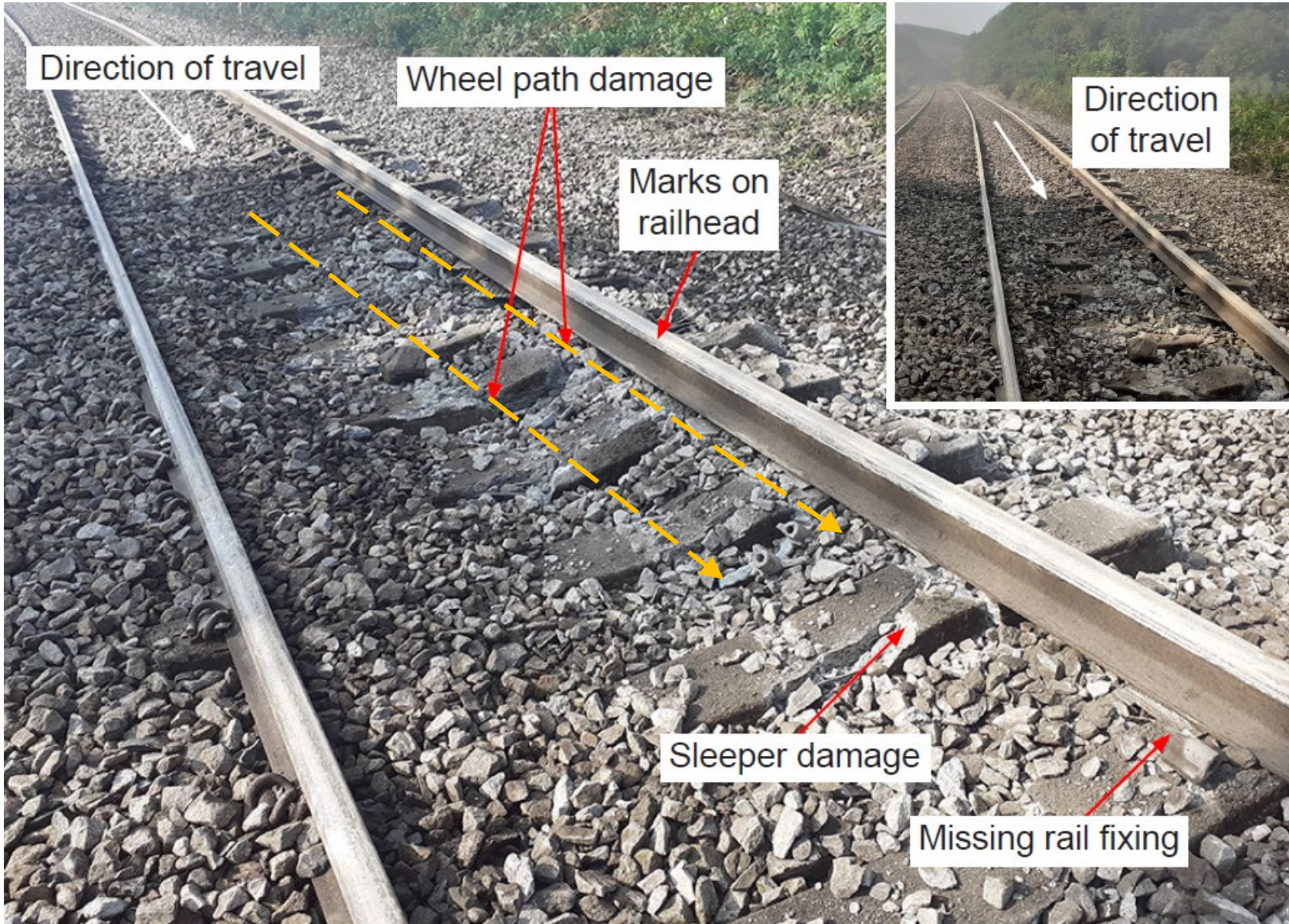


The drain's geotextile lining was omitted in the area of the washout

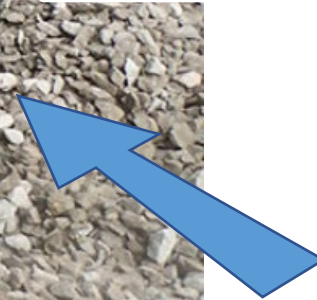


Operations

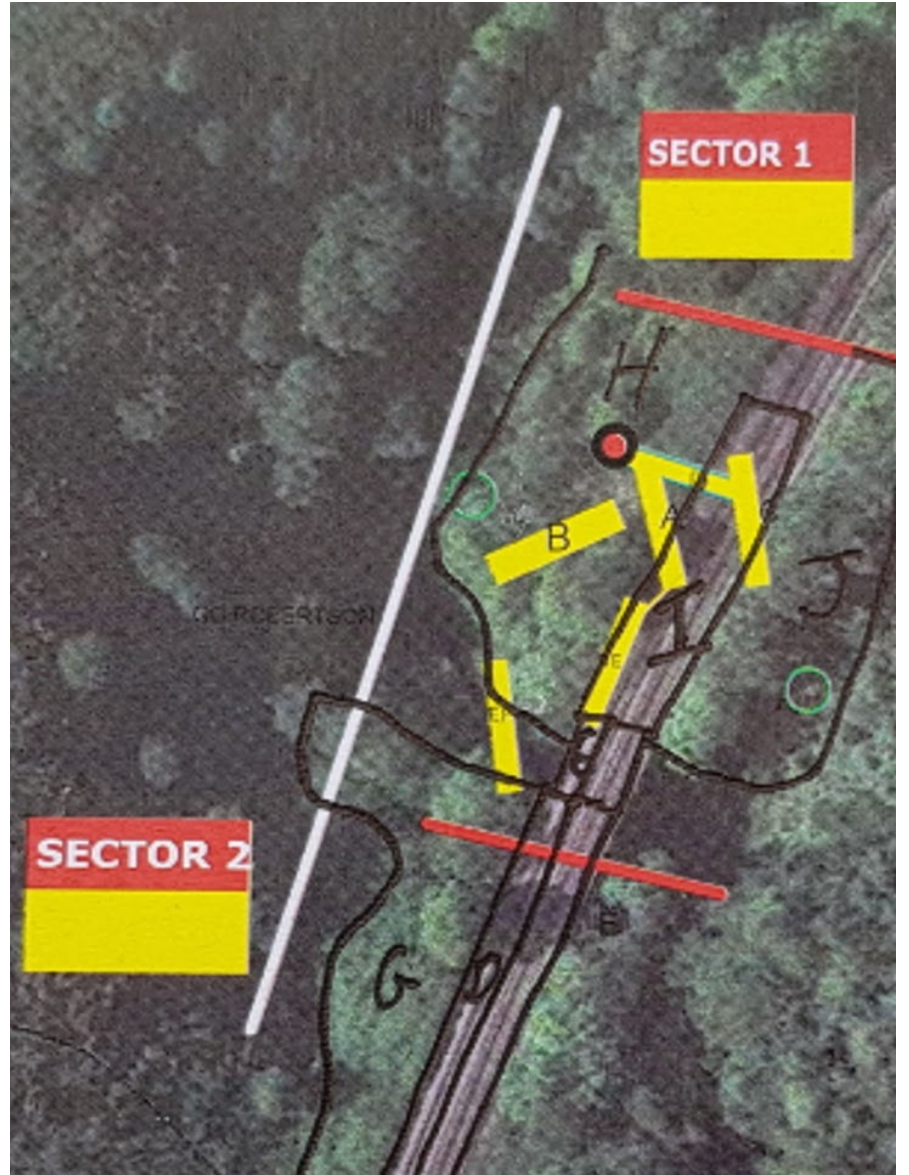
The speed of 1T08 was not restricted



Derailed wheelset













Crashworthiness





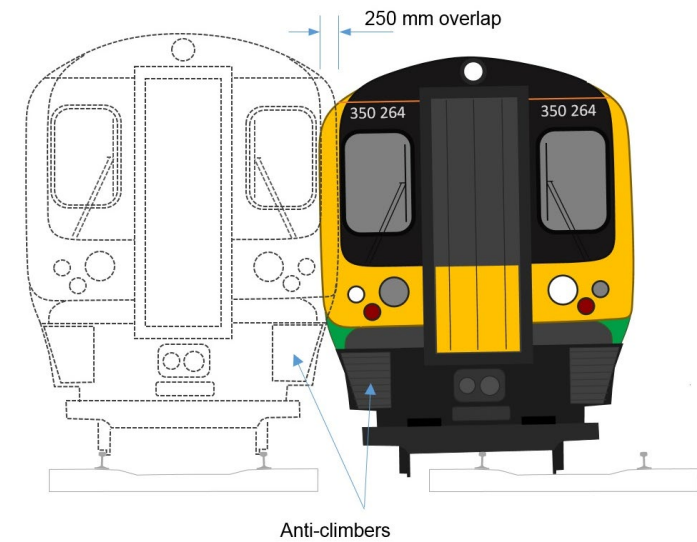
Computer modelling was used to assimilate evidence





Previous event

Watford tunnel
September 2016



RAIB Report 11/2017:
Derailment and subsequent collision at
Watford