Institution of Railway Signal Engineers

Candidate Number

2017 Examination, Module 2, Layout 2

Rapid Transit

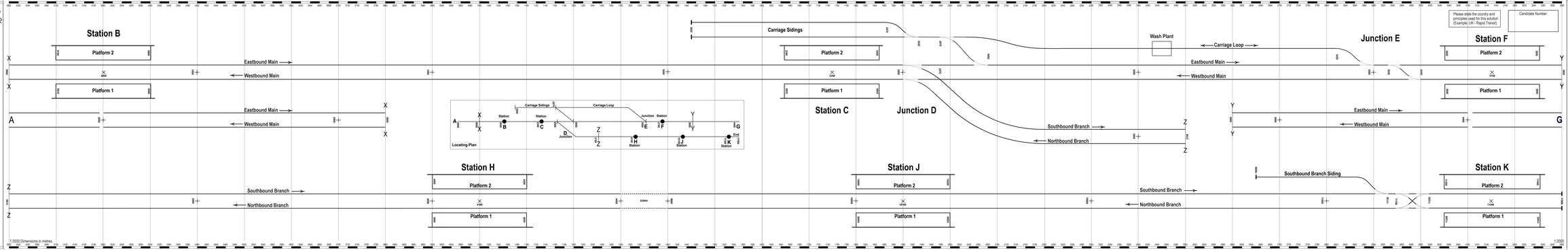
Candidates must include a brief definition of signals/codes/etc. which must be supported by a form of ATP:

Rolling Stock:	Electric multiple unit.	
Train Length:	150 metres.	
Line Speed:	80 km/h.	
Turnout Speed:	40 km/h.	
Gradients:	Level grade throughout.	
Platform dwell times: (Traffic in normal conditions)	Station B	70 seconds.
	Station C	30 seconds.
	Stations F, H, J	40 seconds.
	Station K	120 seconds.
Recovery Margin:		10 seconds.
Timetabled train services:	A to G	16 trains per hour.
	A to K	8 trains per hour.
Service brake rate:		0.8 m/s/s.
Emergency brake rate:		1.1 m/s/s.
Acceleration rate:		0.9 m/s/s.

Scale . 1:2000

Scale check . 1 centimetre actual represents 20m.

Please read the above information carefully

Please state the country and principles used for this solution (Example: UK - Rapid Transit).

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