Institution of Railway Signal Engineers

2010 Examination. Layout 3.

For use with module 3.

Points	Position
130A	1500
130B	1560
132	1560

Points	Position
135A	1480
136AB	1520
135BC	1540
137A	1560
136C	1580
138A	1600
137B	1620
138B	1660

471	Asp	Ind	Dest	Control
A(S)	Sub		483	Delay
B(M)	YG	SI M	497	
C(M)	YG	SI B	499	

473	Asp	Ind	Dest	Control
A(M)	YYG		497	
B(M)	YG	JI 4	499	MAY FA

Flashing aspect distant signalling

472	Ind	Dest
E(S)	MI U	464
D(S)	MI X	462
C(S)	MI F	458
B(S)	MI S	456
A(S)	MI A	Arr

474	Ind	Dest
D(S)	MI U	464
C(S)	MI F	458
B(S)	MI S	456
A(S)	MI A	Arr

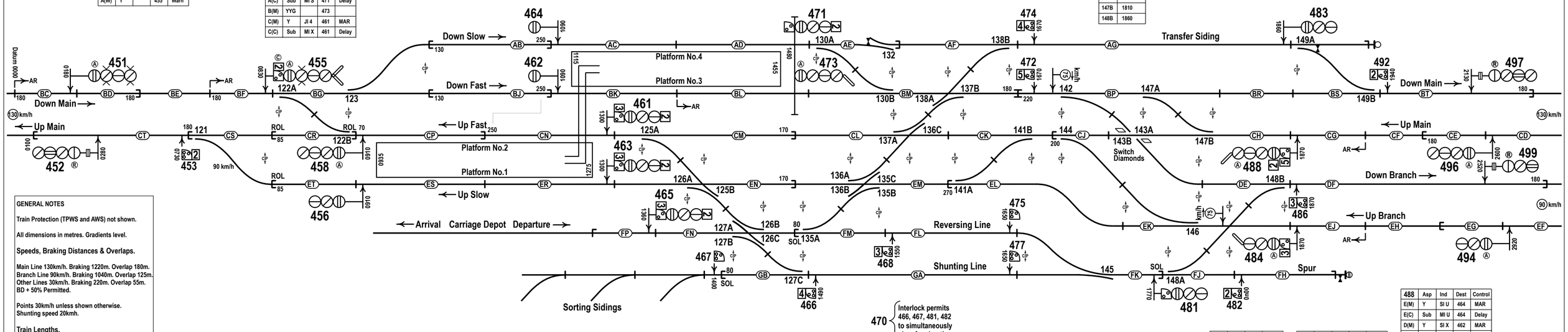
Points	Position
141A	1600
141B	1660
142	1680
144	1680
145	1730
143AB	1740
147A	1750
148A	1780
146	1800
147B	1810
148B	1860

Points	Position
149A	1870
149B	1930

492	Ind	Dest	Control
B(S)	MI T	474	
A(S)	MI X	472	472 Off

451	Asp	Ind	Dest	Control
A(M)	YYG		455	
A(W)	Y		455	Warn

455	Asp	Ind	Dest	Control
A(M)	Y	JI 1	471	MAR
A(C)	Sub	MI S	471	Delay
B(M)	YYG		473	
C(M)	Y	JI 4	461	MAR
C(C)	Sub	MI X	461	Delay



GENERAL NOTES

Train Protection (TPWS and AWS) not shown.

All dimensions in metres. Gradients level.

Speeds, Braking Distances & Overlaps.

Main Line 130km/h. Braking 1220m. Overlap 180m.
Branch Line 90km/h. Braking 1040m. Overlap 125m.
Other Lines 30km/h. Braking 220m. Overlap 55m.
BD + 50% Permitted.

Points 30km/h unless shown otherwise.
Shunting speed 20kmh.

Train Lengths.

Local passenger 100m. Main passenger 200m.
Freight 400m.

AR Commence release position.

Controls required:-

Signals:- 473 B(M), 488 B(M/W/C), 468 C(S).
Points:- 137, 148.

453	Ind	Dest	Control
A(S)	MI F	461	
B(S)	MI S	463	

Points	Position
121	0740
122A	0840
122B	0900
123	0900

Points	Position
125A	1340
126A	1380
125B	1400
127AB	1420
126AB	1440
127C	1480

461	Asp	Ind	Dest	Control
A(S)	Sub	MI T	483	Delay
B(M)	YG	SI M	497	
C(M)	YG	SI B	499	
D(S)	Sub	MI R	475	Delay
E(S)	Sub	MI S	477	Delay

463	Asp	Ind	Dest	Control
A(S)	Sub	MI T	483	Delay
B(M)	YG	SI M	497	
C(M)	YG	SI B	499	
D(S)	Sub	MI R	475	Delay
E(S)	Sub	MI S	477	Delay

465	Asp	Ind	Dest	Control
A(S)	Sub	MI T	483	Delay
B(M)	YG	SI M	497	
C(M)	YG	SI B	499	
D(S)	Sub	MI R	475	Delay
E(S)	Sub	MI S	477	Delay

466	Ind	Dest
D(S)	MI F	458
C(S)	MI S	456
B(S)	MI A	Arrival
A(S)	MI S	Siding

468	Ind	Dest
C(S)	MI F	458
B(S)	MI S	456
A(S)	MI A	Arrival

475	Dest	Control
A(S)	481	481 Off

477	Dest	Control
A(S)	481	481 Off

481	Asp	Ind	Dest
A(M)	YG		499
B(S)	Sub		Spur

486	Ind	Dest	Control
C(S)	MI X	472	472 Off
B(S)	MI R	468	
A(S)	MI S	466	

482	Ind	Dest
B(S)	MI R	468
A(S)	MI S	466

484	Asp	Ind	Dest	Control
C(M)	YG	JI 4	458	
C(W)	Y	JI 4	458	Warn
C(C)	Sub	MI F	458	MAR
B(M)	YG		456	
B(W)	Y		456	Warn
B(C)	Sub	MI S	456	Delay
A(S)	Sub	MI A	Arrival	Delay

488	Asp	Ind	Dest	Control
E(M)	Y	SI U	464	MAR
E(C)	Sub	MI U	464	Delay
D(M)	Y	SI X	462	MAR
D(C)	Sub	MI X	462	Delay
C(M)	YYG		458	
C(W)	Y		458	Warn
C(C)	Sub	MI F	458	Delay
B(M)	YYG	JI 1	456	MAR
B(W)	Y	JI 1	456	Warn
B(C)	Sub	MI S	456	Delay
A(S)	Sub	MI A	Arrival	Delay

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