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## **Commentary on the Anglia Timetable Planning Rules 2023, Version 4.3 Revised Final Proposal for Subsidiary Change Timetable 2023**

This document is a covering note for the Timetable Planning Rules – Revised Final Proposal for Subsidiary Change Timetable, May 2023 - and provides a specific commentary to the route described above.

The following is a summary of all changes in content from Version 3.0 of the 2023 Timetable Planning Rules. All changes in content from Version 4.0 of the 2023 Timetable Planning Rules are highlighted in **red text** below. An annotated version of the document is available on request.

### **1 Introduction and General Notes**

#### **1.1 Index of Routes**

No change

#### **1.2 Sectional Appendices and Rule Book**

##### **1.2.1 Sectional Appendix**

No change

##### **1.2.2 Rule Book**

No change

#### **1.3 Definitions**

##### **1.3.1 Train Classification**

No change

**1.3.2 Days of Operation**

No change

**1.3.3 Traction and Rolling Stock**

No change

**1.3.4 Line Codes**

Added Ely West Curve

**1.3.5 Activity and Other Codes**

No change

**2 Route Description****2.1 Planning Geography**

**EA1010 Forest Gate** to be mandatory for trains from Up Passenger Avoiding Line (IE)

**EA1013 Trowse** - location added for clarity  
**Norwich TC** - geography amended; renamed as Norwich Goods Yard  
**Norwich Low Level Sidings, Norwich Royal Dock** - locations added

**EA1161 Ely Up Goods Loop** - location removed (plan as part of Ely station)  
**EA1161/2 Ely North Jn** - line code EWC added

**EA1390 Tilbury West Jn** renamed as Tilbury Railport Jn  
**Tilbury Riverside IRFT** - location removed (closed)  
**Tilbury2 CMAT Sidings** - location added  
**Tilbury2 Container Terminal** - location/tiplocs added

**EA1550 Ely North Jn** - line code EWC added, '-' line code deleted  
**Ely West Jn** - line code EWC added, '-' line code deleted

**EA1560 Ely North Jn** - line codes UL, DL, EWC added; '-' line code deleted  
**March South** - notes amended

**EA1580 Ely North Jn** - line codes UL, DL, EWC added; '-' line code deleted

**2.2 Route Opening Hours**

No change

**3 Electrification****3.1 Electrification Supply Restrictions**

New restriction applicable to Class 810 on Anglia Route

**3.2 Electrification Limits**

No change

**4 Rolling Stock Restrictions****4.1 Locomotive Route Availability**

No change

**4.2 Passenger Stock Restrictions**

No change

**4.3 Freight Wagon Restrictions**

No change

**4.4 Freight Train Load Limits**

No change

**4.5 Freight Train Length Limits**

No change

**4.6 Engineers' Trains Restrictions**

No change

**4.7 Driver Only Operation Limits**

No change

**5 Running Times, Margins and Allowances****5.1 Sectional Running Times****5.1.1 Source of Current SRTs**

No change

**5.1.2 Method of Calculation**

No change

**5.1.3 New and Revised Sectional Running Times**

SRT changes are being included with Anglia Timetable Planning Rules 2023 Version 4.0 and will be sent to all TPR Forum participants separately. Summary of the changes:

<b>EA1013</b>	Norwich area amendments - new tiplocs
<b>EA1161</b>	Ely area amendments
<b>EA1162</b>	Watlington to King's Lynn additional timing points
<b>EA1550</b>	Ely West Curve amendments (EWC line code)
<b>EA1560</b>	Ely March Peterborough new timing points

**387 100** Class '387 100' and Class '700'

#### 5.1.4 Timing of Trains Consisting of Passenger Vehicles on Goods Lines

No change

#### 5.2 Headways

##### 5.2.1 Headway Values

**EA1162** Amendments Littleport - Downham Market and Watlington - King's Lynn

#### 5.3 Junction Margins and Station Planning Rules

**Standard Values** - references to GTR Class 379 removed

**EA1012** **Halifax Junction standard margin removed**

**EA1013** **Thorpe Yard** entry removed; detail included with Norwich Goods Yard  
**Norwich Thorpe Junction** - standages on Lines C & D documented  
**Norwich Goods Yard** - new entry detailing what is electrified or not  
**Norwich Low Level** and **Norwich Royal Dock** - as above

**EA1160** **Tottenham Hale** - dwell time to be 1 minute at all times  
**Bishop's Stortford** - dwell time 1 minute at all times; restriction updated

**EA1161** **Shepreth Branch Jn** - adjustment applies to Class 387, 700 but not 365  
**Cambridge** - added minimum turnround times for GTR and Thameslink  
**Cambridge** - references to GTR Class 379 removed  
**Platform Working Matrix** - 'cupboard' changed to 'Down Slow Loop'  
**Ely** - added minimum turnround times for GTR

**EA1162** **King's Lynn T.C.** - shown as a separate entry with Terminal Length detail  
**King's Lynn** - added minimum turnround times for GTR

**EA1300** **Seven Sisters Chord** - description amended  
**Seven Sisters Chord** - standages corrected (both directions)

**EA1380** **Upminster** - new adjustments for freight to/from Ockendon

**EA1390** **Grays** - adjustments clarified with reasons for adjustment provided  
**Grays** - Standage Lengths also Restrictions amended (lengths corrected)  
**Grays** - Splitting and Coupling of Trains entry removed (not permitted)  
**Tilbury Railport Junction** - description corrected (formerly Tilbury West Jn)  
**Tilbury Railport Jn** - references to Tilbury IRFT replaced with Tilbury2

**EA1410** **Ockendon** - 2 new adjustments if passing through loop Platform 2  
**Ockendon** - 6 new junction margins / overlap restrictions  
**Ockendon** - existing Single Line Crossing rule and Restriction withdrawn  
**Ockendon** - new operating restrictions for new margins and standages  
**Ockendon** - amended restriction affecting down stopping trains in Platform 2

**EA1480** **Cromer** - Turnround description changed  
**Cromer** - Single Line Reoccupation for DMU/BMU reduced

**EA1500** **Great Yarmouth** - Single Line Reoccupation for DMU/BMU reduced

**EA1560** **Ely West Jn** - pass Ely North Jn followed by pass to EWC split by train type  
**Ely West Jn** - new lower margin if first train is a passenger train

**March** - adjustments wording amended - applicable only to passing trains

**March** - 7 margins withdrawn

**March West Jn** - adjustments to apply only to passing trains

**March West Jn** - 5 margins withdrawn

## 5.4 Platform Lengths

**Cambridge** - Platform 5 new restriction Class 720 not permitted

**Harwich International** - Platform 3 Class 745 restriction removed

**Needham Market** - Down/Up platform numbers corrected

**Seven Sisters** - Platforms 1& 2 new restrictions

**Woodbridge** - Down/Up platform numbers corrected

### 5.4.1 Loop Lengths

**EA1300** **Seven Sisters Chord** - new entry with correct standage

**EA1390** **Departure Line** (UR846) - new entry not documented previously

**Third Line** - down/up standages not documented previously

**EA1410** **Ockendon Up & Down Loop** - standage corrected in either direction

**Ockendon Platform 1** - down/up standages not documented previously

## 5.5 Timing Allowances

**EA1280** Up direction engineering allowance reduced and moved to Temple Mills E Jn

**EA1430** Up direction engineering allowance at Woodbridge vice Saxmundham

## 5.6 Watering of Steam Locomotives

No change

## 6 Timetabling Considerations

### 6.1 Advertised and Working Times

No change

### 6.2 Timing of Light Locomotives

No change

### 6.3 Two-Track Timetable Railway

No change

### Appendices

No change

**\*\*No further changes\*\***

These represent the Revised Final Timetable Planning Rules (the “Final Rules”) for the Subsidiary May 2023 timetable in accordance with Part D of the Network Code, Condition D2.2.3.

As per Condition D2.2.8 of Part D of the Network Code, any Timetable Participant dissatisfied with any decision of Network Rail in respect of those Rules is entitled to appeal against any part of it. Any such appeal shall be conducted in accordance with Condition D 5 of Part D of the Network Code and must be made by a Timetable Participant, and initiated in accordance with Network Code Part D Condition D2.2.8 (a) and (b).

Kind regards

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# **Timetable Planning Rules**

**Anglia**

**2023 TIMETABLE**

**Version 4.3**

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Revised Final Proposal for May 2023 Timetable - Subsidiary Change Timetable 2023  
21 October 2022

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# 1 Introduction and General Notes

Network Rail provide the Timetable Planning Rules document to Train Operators and other interested parties to set out the rules which are applicable to Access Requests for scheduling of train paths on the Network Rail network. Separate sections of Timetable Planning Rules are prepared for each Route with a National Timetable Planning Rules document setting out procedures to be followed and other nationally applicable rules.

Network Rail will determine the contents of Timetable Planning Rules through consultation with Train Operators with the primary aim of achieving the optimal balance between access to the network for train operations and performance robustness of the resulting train plan. This consultation is in line with the Network Code Part D, and Train Operators have a right of appeal to Timetabling Sub-Committee against the contents of the Final Timetable Planning Rules.

Final Timetable Planning Rules are issued with timetable Access Request Information before the commencement of the development period for the Principal Change timetable to which the Rules apply and cover a 12-month period. Revised Timetable Planning Rules are issued with timetable Access Request Information before the commencement of the Subsidiary Change timetable development period and show changes applicable to the Subsidiary Change timetable period which have been agreed since the issue of the annual Timetable Planning Rules.

Timetable Planning Rules may be changed only through this twice-yearly process or by the change procedure described in the National Timetable Planning Rules

Train Operators' Access Requests for train paths must be compliant with Timetable Planning Rules. If a Train Operator wishes to submit an Access Request for a train path which is not compliant with Timetable Planning Rules it should consult the Network Rail Capacity Planning team to establish whether an amendment to Timetable Planning Rules is likely to be agreed and, if appropriate, submit an amendment proposal which will be considered by Network Rail in accordance with the Change Procedure set out in the National Timetable Planning Rules. The Timetable Planning Rules amendment proposal should be submitted to Network Rail as early as possible and certainly no later than the time of submission of the Access Request. If the proposed change is likely to involve the calculation of new sectional running times or a physical investigation then the Train Operator should liaise with the Capacity Planning team to establish a realistic timescale for evaluation of the proposed change before submission of the Access Request.

## 1.1 Index of Routes

Information arranged on a line of route basis in this document is presented in the following order:

EA1010	Liverpool Street to Seven Kings
EA1011	Seven Kings to Ipswich
EA1012	Ipswich to Trowse Junction
EA1013	Trowse Junction to Norwich
EA1020	Carpenters Road South Junction to Carpenters Road North Junction (Carpenters Road Curve)
EA1030	Forest Gate Junction to Woodgrange Park Junction
EA1040	Romford to Upminster
EA1050	Shenfield Junction to Southend Victoria
EA1060	Wickford Junction to Southminster
EA1070	Witham Junction to Braintree
EA1080	Marks Tey Junction to Sudbury
EA1090	Colchester Junction to Clacton-on-Sea
EA1100	East Gate Junction & Hythe Junction to Colchester Town
EA1110	Thorpe-le-Soken Junction to Walton-on-the-Naze
EA1120	Manningtree to Harwich Town
EA1130	Griffin Wharf Branch
EA1140	Ipswich Docks Branch
EA1150	Channelsea South Junction to Stratford Central Junction West (Channelsea Curve)
EA1160	Bethnal Green East Junction to Bishop's Stortford
EA1161	Bishop's Stortford to Ely North Junction
EA1162	Ely North Junction to King's Lynn
EA1170	Hackney Downs North Junction to Enfield Town
EA1180	Reading Lane Junction to Navarino Road Junction (Graham Road Curve)
EA1190	Bury Street Junction to Cheshunt Junction
EA1200	Clapton Junction to Chingford
EA1210	Broxbourne Junction to Hertford East
EA1220	Stansted South & North Junctions to Stansted Airport
EA1230	Royston to Shepreth Branch Junction
EA1270	King's Lynn Junction to Middleton Towers
EA1280	Stratford Central Junction to Coppermill Junction
EA1290	Tottenham South Junction to South Tottenham East Junction
EA1300	South Tottenham West Junction to Seven Sisters Junction
EA1310	Camden Road West Junction to Richmond
EA1320	Camden Road West Junction to Stratford Platforms 1 & 2
EA1325	Highbury and Islington to Dalston Junction (exclusive)
EA1330	South Acton Junction to Old & New Kew Junctions
EA1340	Stratford Lea Junction to High Meads Junction (Lea Curve)
EA1350	Channelsea North Junction to Temple Mills East Junction
EA1360	Dudding Hill Junction to Acton Wells Junction
EA1370	Gospel Oak Junction to Barking Tilbury Line Junction West
EA1380	Fenchurch Street to Shoeburyness
EA1390	Barking Tilbury Line Junction East to Pitsea Junction (via Tilbury)
EA1395	Ripple Lane West Junction to Barking Riverside
EA1400	Gas Factory Junction to Bow Junction
EA1410	Upminster to West Thurrock Junction
EA1420	Thames Haven Junction to London Gateway Port/Thames Haven Sidings
EA1430	East Suffolk Junction to Oulton Broad North Junction
EA1440	Westerfield Junction to Felixstowe Town
EA1450	Trimley To Felixstowe North and Central Terminals
EA1460	Felixstowe Beach Junction to Felixstowe Beach (for Felixstowe South Quay Freightliner Terminal)
EA1470	Norwich Thorpe Junction and Trowse Swing Bridge to Lowestoft
EA1480	Whitlingham Junction to Cromer

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EA1490	Cromer to Sheringham
EA1500	Brundall Junction to Yarmouth
EA1510	Reedham Junction to Yarmouth
EA1520	Saxmundham Junction to Sizewell
EA1530	Coldham Lane Junction to Haughley Junction
EA1540	Chippenham Junction to Ely Dock Junction
EA1550	Ely North Junction to Ely West Junction (Ely West Curve)
EA1560	Ely North Junction to Kings Dyke (inclusive)
EA1570	March East & West Junctions to Wisbech
EA1580	Ely North Junction to Trowse Junction
EA1744	Boss Hall Junction to Europa Junction – Bacon Factory Curve

## 1.2 Sectional Appendices and Rule Book

### 1.2.1 Sectional Appendix

The Sectional Appendix to the Working Timetable and Books of Rules and Regulations shall be used.

The Sectional Appendix is the sole source of information regarding the following:

Electrification limits refer to relevant Table 'A'.

Permissive Working refer to relevant Table 'A', then see below.

Route Clearance refer to 'tab' associated with relevant Table 'A'

To identify the type of Permissive Working that applies at a given location, refer to the appropriate Sectional Appendix Table A for that location. If there is authority for Permissive Working, this will appear in the Signalling and Remarks. There are different authorities that depend upon the signalling and layout of the location. The following list identifies the types of Permissive Working that will appear in the Sectional Appendix.

Type	Description
PP	Permissive Working – Full use for class 1, 2, 3 ECS, 5, 9 and 0 trains
PP – A	Permissive Working – Attaching and Detaching use only for class 1, 2, 3 ECS, 5, 9 and 0 trains
PP – C	Permissive Working – Contingency use only for class 1, 2, 3 ECS, 5, 9 and 0 trains
PP – S	Permissive Working – Platform Sharing use only for class 1, 2, 3 ECS, 5, 9 and 0 trains
PF	Permissive Working – For class 3 to 8 and 0 trains

*Source: Sectional Appendix – General Instructions – National - Explanation of Table A terms and symbols*

## 1.2.2 Rule Book

The following Modules of the Rule Book GE/RT8000 affects all sections unless specified. The sections listed affect railway operations and train movements. The listed section does not apply to Train Planning directly, but its application will affect how trains operate, and it is for that reason the item appears here.

RULE BOOK MODULE	SECTION	NOTES
G1 General safety responsibilities and personal track safety for non-track workers	5.5 Using the phonetic alphabet	Operational principles
OTM Working of on-track machines (OTM)	2.2 Before starting a journey	TPR Section 4.6
	5.6 Carrying out a running brake test	TPR Section 5.1.2
P1 Single line working	6.5 Warning anyone working on or near the line used for single line working	When planning Single Line Working
	9.3 Right-direction movements	
	9.4 Wrong-direction movements	
S1 Signals and indicators controlling train movements		Operational principles
S2 Observing and obeying fixed signals	3.1 Passenger train at a position-light, shunt-ahead or shunting signal	Operational principles
SP Speeds	2.4 Differential permissible speed indicators	TPR Section 5.1.2
	2.5 Permissible speed indicators with letters	TPR Section 5.1.2
	2.6 Enhanced permissible speed (EPS) indicators	TPR Section 5.1.2
T11 Movement of engineering trains and on-track plant under T3 arrangements	3 Movements entering the possession	When planning trains entering possessions
	7 Instructing the driver or machine controller	When planning trains entering possessions
TW1 Preparation and movement of trains General	7.1 Authority and arrangements for movements (Hauling dead traction units)	Operational principles
TW2 Preparation and movement of multiple-unit passenger trains	6.5 Carrying out a running brake test	TPR Section 5.1.2
TW3 Preparation and movement of locomotive hauled trains (including HSTs, push-pull, postal, parcels)	2.1 Locomotives running light or hauling trains (Maximum speed of);	TPR Section 5.1.2
	2.2 Maximum permitted speed of locomotive-hauled trains	TPR Section 5.1.2
	2.3 Electric-traction speed restrictions	TPR Section 5.1.2
	3.16 Carrying out a running brake test	TPR Section 5.1.2
	Section 14.1 Working trains with locomotives at both ends, when this type of working is permitted	Operational principles

<b>RULE BOOK MODULE</b>	<b>SECTION</b>	<b>NOTES</b>
Rule Book Handbook 5 Handsignalling Duties	Section 5.2 Entrance signal	When planning Temporary Block Working (TBW)
	5.3 Exit signal	When planning Temporary Block Working (TBW)
	5.4 Where TBW is divided into two sections	When planning Temporary Block Working (TBW)

## 1.3 Definitions

The list below is not an exhaustive one but is intended to give readers an understanding of some of the terminology as used for the purposes of this document.

If any term in Timetable Planning Rules is unclear, please contact the compiler on the telephone number shown on the cover.

### 1.3.1 Train Classification

First Character	Description
1	Express passenger train; or Nominated postal or parcels train; or Breakdown or overhead line equipment train going to clear the line or returning from there (1Z99); or Traction unit going to assist a failed train (1Z99) Snow plough going to clear the line (1Z99)
2	Ordinary passenger train; or Breakdown or overhead line equipment train not going to clear the line (2Z99) Officers' special train (2Z01)
3	Freight train which can run at more than 75 mph; or A parcels train; or Empty coaching stock train if specially authorised
4	Freight train which can run up to 75 mph
5	Empty coaching stock train
6	Freight train which can run up to 60 mph
7	Freight train which can run up to 45 mph
8	Freight train which can run at, or is timed to run at, 35 mph or less
9	Thameslink services to or from St Pancras Low Level and beyond MTR Crossrail services through the Crossrail Central Operating Section GA Norwich in 90 services c2c services to/from London Liverpool Street A train formed of a Class 373 unit. Passenger services for East London line
0	Light locomotive or locomotives

Source: The Rule Book GE/RT8000/TW1 Preparation and Movement of Trains General Section 2 Classification and speed of trains

Second Character	Route and/or Destination
A	Manningtree and Harwich Town Cambridge and Harwich International Harwich District
B	London Liverpool Street, Stratford and Stansted Airport London Fenchurch Street/London Liverpool Street and Shoeburyness (via Laindon) Ipswich to Felixstowe South Terminals
C	Stratford and Gidea Park, Norwich and Great Yarmouth (via Reedham) London King's Cross and Cambridge London Liverpool Street District
D	Ipswich and Lowestoft London Liverpool Street and Cheshunt (via Seven Sisters) (2D00-2D49) London Liverpool Street and Hertford East (via Seven Sisters) (2D50-2D99) London Fenchurch Street/London Liverpool Street and Shoeburyness (via Ockendon) Broxbourne District
E	To Eastern Region (LNE area) ECS to East Ham EMUD (c2c services)

<b>Second Character</b>	<b>Route and/or Destination</b>
F	Chelmsford (including Braintree branch) and Colchester; Class 1 Liverpool Street to or from Colchester Town NOT calling at Romford; Liverpool Street to or from Clacton/Walton-on-the-Naze via Colchester Town but NOT calling at Romford; also Class 2 Liverpool Street to or from Colchester Town calling at Romford or Liverpool Street to Clacton/Walton-on-the-Naze via Colchester Town and calling at Romford; Colchester to Colchester Town; Colchester to Clacton/Walton-on-the-Naze via Colchester Town London Fenchurch Street/London Liverpool Street and Shoeburyness (via Laindon, if 'B' cannot be used) Colchester District
G	Anglia Internal Special Trains
H	London Liverpool Street and Cambridge, Cambridge North, Ely and King's Lynn Cambridge District (Main Line)
I	Richmond and Upminster LT
J	Wickford and Southminster, Norwich and Lowestoft Stansted Airport to former Midland or North West areas Barking to/from Gospel Oak ECS to East Ham EMUD (London Overground services)
K	Billericay and Southend Victoria Norwich and Cambridge/Stansted Airport Ockendon Branch
L	To East Anglia Area Clapham Junction to Stratford via Camden Road
M	Orient Way Depot Stratford and Meridian Water via LVR To the Midlands and North West areas
N	Class 1 Liverpool Street to or from Clacton/Walton-on-the-Naze NOT via Colchester Town and NOT calling at Romford; also Class 2 Liverpool Street to Clacton/Walton-on-the-Naze NOT via Colchester Town BUT calling at Romford; Colchester to Clacton/ Walton-on-the-Naze NOT via Colchester Town; Thorpe-le-Soken and Walton-on-the-Naze Stansted Airport or Norwich to Midland or North West areas Stratford, Camden Road to/from Richmond London Fenchurch Street to or from Laindon Elizabeth line to Maidenhead
O	To Southern Area Cheshunt and Hertford East (via Tottenham Hale) Richmond and Upminster LT
P	Norwich/Great Yarmouth (via Acle) London Liverpool Street to or from Norwich London Fenchurch Street/London Liverpool Street and Shoeburyness (via Laindon, if diagrammed as Class 387) Norwich District
Q	UTU trains only
R	Ipswich to Felixstowe Town/North Terminals. Norwich and Nottingham, Manchester Piccadilly or Liverpool Lime Street ECS trains to Letchworth CSD Fenchurch Street/Liverpool Street and Shoeburyness (via Rainham) Barking District & Felixstowe North Terminals Elizabeth line to Reading

<b>Second Character</b>	<b>Route and/or Destination</b>
S	To Scotland Zone. Norwich and Sheringham London Liverpool Street and Bishop's Stortford ECS to Shoeburyness. Shunt movements Thameslink Route - Cambridge and Gatwick Airport / Three Bridges / Brighton via London Bridge and Quarry Lines
T	Colchester/Marks Tey and Sudbury London Liverpool Street and Chingford, London King's Cross and Cambridge North / Ely / King's Lynn Elizabeth line to Heathrow Airport or Hayes & Harlington
U	London Liverpool Street and Enfield Town; Thameslink Route - NOT CURRENTLY USED – will be allocated to relevant service group when 24tph Thameslink service is confirmed
V	To Great Western area; Romford and Upminster; ECS trains running to Ilford EMUD; Class 1 services between Great Yarmouth and Liverpool Street or vice versa.
W	Brentwood, Shenfield and Ingatestone Cambridge and Ipswich
X	Special conditions for exceptional load
Y	Ipswich and Stowmarket EMU peak services ECS to form Class 1 trains, Willesden Junction to/from Clapham Junction Stratford, Camden Road to Clapham Junction Elizabeth line to Paddington Crossrail (including ECS to Old Oak Depot) Ipswich District (except Felixstowe Branch)
Z	Special Traffic Trains Must NOT be used for WTT services STP additional trains not conforming to any route code

### Third and Fourth Characters

For services running solely within Anglia, Down services normally carry EVEN NUMBERS and Up services normally carry ODD NUMBERS

### 1.3.2 Days of Operation

The following abbreviations are used to identify the day or days that a train operates.

Abbreviation	Description
M	Monday
T	Tuesday
W	Wednesday
Th	Thursday
F	Friday
S	Saturday
Su	Sunday
EWD	Every Week Day (Monday to Saturday)
Daily	Every day – will not accept this; there must be a separate entry for Sundays (Note – need to include reference to new ITPS processes)
<b>Suffixes</b>	
O	Adding this indicates that the train will run only on that day or those days shown
X	Adding this indicates that the train will not run on that day or those days shown
<b>General</b>	
BHX	Denotes that this train does not run on a bank holiday

### 1.3.3 Traction and Rolling Stock

Abbreviation	Description
22X	DMU classes 220/221/222
BMU	Any bi-mode diesel & electric multiple unit
DBSO	A vehicle at one end of a train formed of a locomotive, a set of either Mk II or III vehicles and the Driving Brake Second Open which accommodates a train driver and also passenger accommodation
DVT	Driving Van Trailer – accommodates a train driver and/or conductor only with a set of controls replicated from a locomotive at the opposite end of a set of coaching stock
DMU	Any diesel multiple unit (excluding classes 220/221/222)
EMU	Any electric multiple unit
ECS	Empty Coaching Stock includes empty diesel and electric multiple units
HST	Trains consisting of two Class 43 locomotives and Mk 3 passenger vehicles
LH	A passenger or parcels train hauled or propelled by one or more locomotives
LHCV	Locomotive hauled coaching vehicles
Power	Passenger stock equipped with power operated external doors

### 1.3.4 Line Codes

Abbreviation	Description
-	Default line code as indicated in Section 2.1
1UM	Up Main from Cambridge via Platform 1
1UX	Up Main from Cambridge via Platform 1 and non-preferred route (1052 points)
AL	Arrival/Airport Line
BL	Bow Line (Bow Junction and Stratford)
C	Line C
CL	Cambridge Line
CR	Up and Down Clacton
CR3	Up trains via Up and Down Clacton from East Gate Jn to Colchester Platform 3 avoiding Platform 4
CS	Clacton Single
D	Line D
D&UGL	Down & Up Goods Line
D&UPL	Down & Up Passenger Line
DA	Up and Down Avoiding
DBL	Down Bi directional Line
DCH	Up Trains on Down Channelsea
DCL	Down Connecting Line
DED	Down Enfield Direction (reference to reversal point at Enfield Town. See 2.1)
DEL	Down Electric Line
DG	Down Goods
DGL	Down Goods Line
DGL(N)	Down Goods Line North
DH	Down Harwich
DL	Down Line / Down Lowestoft
DM	Down Main
DMG	Down Main then Down Goods Loop
DML	Down Main Line
DMT	Down Main then Through Line
DNL	Down North London
DPL	Down Passenger Loop / Line
DS	Down Slow
DST	Down Slow then Through Line
DTL	Down Temple Mills Line
DTS	Down Through Siding
DUG	Down & Up Goods
DUL	Down & Up Lowestoft
DX	Down Connecting (East Ham to Barking)
DX1	Down trains Bow Junction running ML to UBL via points 2128R
DX2	Down trains Bow Junction running ML to UBL via points 2133R
DX3	Down trains Bow Junction running via points 2134R
DX4	Down trains Bow Junction running ML to BL via points 2128R and 2134R
E	Line E
EL	Electric Line
EMM	Electric, Main, Main
ESF	Electric, Suburban, Fast
EWC	Ely West Curve
FL	Fast Line
FMS	Fast, Main, Suburban
FS	Down & Up Felixstowe Single
FSE	Fast, Suburban, Electric
FSM	Fast, Suburban, Main
GL	Goods Line

Abbreviation	Description
IE	Independent Electric (Ilford). Up direction running Up Passenger Avoiding Line via Signal L336 and 2170 points.
IL	Independent Line (Ilford). Down direction running via Down Passenger Avoiding Line. Up direction running Up Passenger Avoiding Line over short route via 2172 points.
LS	Long Siding
LVR	Lea Valley Reversible
MEM	Main, Electric, Main
ML	Main Lines
ML1	Main Line departing Liverpool Street Platforms 5-9 via points 2008/2009
ML2	Main Line departing Liverpool Street Platforms 5-9 via points 2014/2015
MME	Main, Main, Electric
MSF	Main, Suburban, Fast
NL	Down North London
PL	Platform Line
REV	Reversible
RM	Reversible (Temple Mills E Junction and Channelsea Junction)
RL	Down North London Relief
RVL	Reversible
S	Suburban Line
S1	S line from Bethnal Green running via points 2014/2015 to Liverpool Street Platforms 5-9
S2	S line from Bethnal Green running via points 2008/2009 to Liverpool Street Platforms 5-9
SEM	Via signals 71,95 and 221
SL	Slow Line
SMF	Via signals 71,93 and 103
TL	Down & Up Trimley Loop Through Line
TLG	Through Line then Down Goods Loop
UBL	Up Bow Line
UCL	Up Connecting Line
UEL	Up Electric Line
UG	Up Goods
UGL	Up Goods Line
UH	Up Harwich
UL	Up Line / Up Lowestoft
UM	Up Main
UM4	Up Main then via Platform 4
UML	Up Main Line
UMT	Up Main then Through Line
UNL	Up North London
UPL	Up Passenger Loop
UX	Up trains to Cambridge running DM from 1093 or 1092 points Up Main from Cambridge via non-preferred route (1052 points)
UX1	Up trains from Stratford running BL to DML via points 2128R
UX2	Up trains from Stratford running BL to DML via points 2133R
UX3	Up trains from Stratford running DBL to BL via points 2134R
UX4	Up trains from Stratford running DBL to DML via points 2134R/2128R
UXL	See XUL
W	Line W
XL	Trains via points 2156R
XDL	Trains via points 2153R/2159R .
XUL	Up trains from Bow Junction to Up ML via points 2120R

### 1.3.5 Activity and Other Codes

Abbreviation	Description
*	Suppression of traffic stop indicator
-D	Train stops to detach vehicles
-T	Train stops to attach and detach vehicles
-U	Train stops to attach vehicles
A	Train stops or shunts for other trains ahead or to pass only. Shows as an * in WTT
AE	Trains stops to attach/detach assisting locomotive.
BL	Train stops to attach or detach a banking locomotive
C	Train stops to change train crew
D	Train only stops to set down passengers. Shows as an s in NRT
E	Train stops for examination
G	NRT data to add
H	Notional Activity to prevent WTT column merge
HH	As H, where there is a third column involved
K	Passenger count point
KC	Ticket collection and examination point
KE	Ticket examination point
KF	Ticket examination point – 1 <sup>st</sup> Class only
KS	Selective ticket examination point
L	Train stops to change locomotives
N	Stop not advertised to the public
OP	Train stops for other operating reasons
OR	Train locomotive on rear of train
PR	Train propelling between points shown
R	Train stops when required. Shows as an x in NRT
RETB	Radio Electronic Token Block
RM	Trains stops for a reversing movement or driver to change ends
RR	Train stops to allow the locomotive to run-round its train
S	Trains for railway personnel only
T	Trains stops to pick up or set down passengers
TB	Train begins (Origin)
TF	Train finishes (Destination)
TS	Detail consist for TOPS Direct requested by freight operators.
TW	Train stops to pick up or set down a staff, tablet or token on Single Lines. See Section 5.2
U	Train only stops to pick up passengers. Shows as a u in NRT
W	Train stops for watering of coaches
X	Train passes another train at crossing point on single line. See Section 5.2
x{	Suppress running line information
{	Force running line indication
{ }	Force path and line indications
}	Force path indication
#	Force stop with TW

<b>Activity Codes – Notes</b>
1. Any passenger train that stops at a location automatically generates a T Activity unless it is suppressed.
2. If an activity is required that removes the 'passenger stop' activity (T, D, U and R) from TPS, then the 'passenger stop' activity must always appear in the first activity field (e.g. T -D would be correct, -D T would not). This is because the National Rail Timetable (NRT) extract program only considers the first activity field. If it does not find a 'passenger stop' activity in the first field the time will not be extracted to appear in the NRT.
3. Up to 6 activities may be shown for each event.
4. No two activities may be duplicated at the same event.
5. At any one event, the following groups are mutually exclusive: a) D, U, T, N, S, TW, OP. b) -D, -U, -T. c) TB, TF. d) KC, KE.
6. N, R, G, D and U are only valid with Train Categories XC, XD, XI, XX, XZ, OO, OW, OL, BS, BR and blank (i.e. 'advertised' services). R, D and U are additionally valid with Train Categories XU and OU (unadvertised services).
7. K, KC, KE, KF, KS are only valid with Train Categories starting X or O.
8. If TF is present then none of K, KC, KE, KF, KS can be present.
9. Activity T indicates that a train stops to pick up and set down. This normally refers to passengers. Activity -T indicates that the train stops to attach and detach vehicles. At any location where a 'stop' time is shown, TPS or a similar system will assume a default activity is required unless otherwise specified. These default activities are as follows: T for trains with a Train Category starting in X or O, OP for trains with a Train Category starting in Z or E, and -T for all other trains (but see below). The default activity will be generated when the upload file is created.
10. If activities U, D, N, R, OP, S, TW, -U or -D are specified then this overrides the defaults and only the specified activities will be included in the upload file (it is not necessary to use the * suppression code if these codes are present).
11. If a traffic activity is NOT required at a 'stop' location with activities other than U, D, N, R, OP, S, TW, -U or -D (e.g. at 'C' or 'L' stops) then the * must be input to the TPS or similar system train specification at that location to suppress -T or T. If the * is not added to indicate a non-traffic stop then T, -T or OP will be added to the upload file.
12. If an activity -T (only) is required on a train with a Category starting in X or O it is necessary to add a * to the TPS spec (to suppress 'T') and positively show -T in the activity column.

## 2 Route Description

### 2.1 Planning Geography

Network Rail maintains the planning geography and issues it to Train Operators using the BPlan system. BPlan data is to be regarded as the master geography and it is the responsibility of Train Operators and nominated Network Rail users to ensure that data in their train planning systems reflects the master geography.

It is essential that all locations, times and full details such as platforms, running lines, activities, etc. comply fully with all of the following rules. Any Network Links used for buses only are to have running line defined as BUS. All data used by a specifier must be that supplied by Network Rail: use of estimated times added or amended locally will cause the trains concerned to fail validation.

In order to avoid the creation of unnecessary journey legs and associated point-to-point timings, all passing times must conform to these rules.

Locations in bold **type and underlined** are mandatory timing points i.e. apply to all trains on the specified line of route.

Locations in **bold** type are conditional timing points with a mandatory element. These are locations where all trains travelling on a specific line or in a specific direction are required to be timed at this location, which will be defined in the Notes column. For lines/directions for which the mandatory element does not apply they are to be treated as non-mandatory timing points and are only required to be shown in connection with a specific activity with one or more of the codes shown below in the Code column.

Locations in normal type are non-mandatory timing points and are required to be shown only for a specific activity with one or more of the codes shown below in the Code column.

Locations in *italic* type are not timing points but are shown for reference purposes.

Line references shown in italics e.g. *SW100* are only for reference purposes.

In the tables below, the following codes apply:

- F Only freight trains are timed here
- P Only passenger trains are timed here
- S Only stopping trains are timed here
- X Only trains crossing from one running line to another are timed here

<b>EA1010 LIVERPOOL STREET TO SEVEN KINGS</b>				
<b>TIMING POINT</b>	<b>DOWN</b>	<b>UP</b>	<b>CODE</b>	<b>NOTES</b>
<b>Running line codes must be shown between Liverpool Street and Shenfield</b>				
<b>Liverpool Street</b>	ML EL S ML1 ML2			Platform detail must be shown
Wheler Street Junction		ML	X	Timing point for Up EL trains crossing to Up ML
<i>Bethnal Green West Junction</i>				<i>To/from Hackney Downs - EA1160</i>
<b>Bethnal Green</b>	ML EL FL S EMM MEM SEM	ML EL S FSM MME FMS FSE MEM S1 S2		
<i>Bethnal Green East Junction</i>				<i>To/from Hackney Downs – EA1160</i>
<b>Bow Junction</b>	ML EL BL UBL DX1 DX2 DX3 DX4	ML EL XUL		<i>To/from Gas Factory Junction – EA1400</i>
Bow Depot Reception		-	F	Only trains to/from Yard
Bow Yard	BL		F	Only trains to/from Yard
Pudding Mill Lane Junction	EL	-	X	<i>To/from Stepney Green Junction – Refer to Crossrail Timetable Planning Rules – XR001</i> Trains to and from Crossrail Central Operating Section only.
<b>Carpenters Road South Junction</b>	-	BL DBL ML	X	<i>To/from Carpenters Road North Junction via Carpenters Road Curve – EA1020</i> Timing point for trains to/from Bow Yard
<i>Stratford Central Junction West</i>				<i>To/from Carpenters Road North Junction via Channelsea Curve – EA1150</i> <i>To/from Temple Mills East Junction – EA1280</i>
<b>Stratford</b>	ML EL UML XL XDL -	ML EL BL - AL DML DBL UX1 UX2 UX3 UX4		Platform detail must be shown Default line code applies to trains which stop at Signal L295 or via Channelsea Curve. Up line code AL for moves via Channelsea Avoiding Loop (preferred route towards Lea Junction if available) Line code DBL is to Carpenters Road South Junction
Stratford Signal L295 (Angel Lane Loop)	-		S	Tiploc – STFD295
<i>Stratford Country End Crossovers</i>				
<b>Maryland</b>	ML EL UEL UML	ML EL DEL DML XL XDL	S X	Timing point for all trains on the Down ML. Timing point for Up ML trains crossing via Stratford Country End Crossovers to EL
<i>Maryland East Crossovers</i>				
<b>Forest Gate</b>	ML EL	ML EL DML DEL	S X	Timing Point for Down trains crossing via Forest Gate Junction ladder. Timing point for Up trains crossing via Maryland East Crossovers. Timing point for all trains from Up Passenger Avoiding Line (line code IE).

<b>EA1010 LIVERPOOL STREET TO SEVEN KINGS</b>				
<b>TIMING POINT</b>	<b>DOWN</b>	<b>UP</b>	<b>CODE</b>	<b>NOTES</b>
<b>Forest Gate Junction</b>	ML EL	ML EL DML		<i>To/from Woodgrange Park – EA1030</i> Services required to recess on the Up Passenger Avoiding Line (line code IE) approaching Signal L336 to be planned to stop at Forest Gate Junction
Manor Park	ML EL IL	ML EL	S X	Timing point for trains using Ilford Down Passenger Avoiding Line
Aldersbrook Signal L337/354	-		S	Tiploc – ALDB337
Aldersbrook Sidings		IL IE	S	
Ilford Signal L341	IL		S	Tiploc – ILFE341. Timing point for services requiring to recess on the Down Passenger Avoiding Line approaching Ilford
Ilford Signal L5087	-		S	Tiploc – ILFE507. Timing point for reverse moves to Ilford platform 4 from the Up Electric Line
<b>Ilford</b>	ML EL	ML EL IL IE		Services using Up Passenger Avoiding Line to use line code IL if routed via Manor Park Platform 1 or otherwise use line code IE to Forest Gate Junction
Ilford Depot London End Junction	EL - to Ilford EMUD	ML EL DEL	X	Tiploc – ILFELEJ
Ilford EMUD	-	-		Tiploc – ILFEMUD Only trains to/from EMUD
Seven Kings	ML EL	ML EL - to Ilford EMUD	S X	Timing point for trains to/from Ilford EMUD <i>To/from Gidea Park – EA1011</i>

<b>EA1011 SEVEN KINGS TO IPSWICH</b>				
<b>TIMING POINT</b>	<b>DOWN</b>	<b>UP</b>	<b>CODE</b>	<b>NOTES</b>
Seven Kings	ML EL	ML EL - to Ilford EMUD	S X	Timing point for Down Electric Line trains using Seven Kings Country End Crossovers towards Down Main Line <i>To/from Ilford – EA1010</i>
<i>Seven Kings Country End Crossovers</i>				
Goodmayes	ML EL	ML EL	S X	Timing point for Up Main Line trains using Seven Kings Country End Crossovers towards Up Electric Line
Chadwell Heath	ML EL	ML EL	S X	Timing point for trains crossing to/from Chadwell Heath Turnback
Chadwell Heath Turnback	-	-	S	Tiploc – CHDWHTT
Romford Signal L438	-		S	For trains reversing on the Up Main
Romford Signal L5107	- UML		S	TIPLOC - ROMF107 For trains reversing to or from the Upminster Branch
Romford Engineers Sidings	-		S	
Romford Signal L440/Signal L5109	EL		S	For trains reversing on the Up Electric
Romford	ML EL	ML EL	S X	<i>To/from Upminster – EA1040</i>

<b>EA1011 SEVEN KINGS TO IPSWICH</b>				
<b>TIMING POINT</b>	<b>DOWN</b>	<b>UP</b>	<b>CODE</b>	<b>NOTES</b>
<b><u>Gidea Park</u></b>	ML EL - to Gidea Park CS.	ML EL		
Gidea Park Stabling Lines	-	-	S	Platform detail must be shown as siding number is required for routing purposes.
Gidea Park Turnback Line	-	-	S	
Gidea Park Shunt Spur	-	-	S	
Gidea Park Junction	ML EL	ML EL -	X	Default Route Code to Gidea Park Stabling Lines only
Harold Wood	ML EL	ML EL	S	
Brentwood	ML EL	ML EL	S	
Shenfield London End Junction	EL	EL	X	Trains to be timed at this location for the following crossing moves  Down Direction Train on Down Main using secondary route (2250 pts) to platform 4 to be timed here with EL line code.  Up Direction Trains from platform 1 or 2 using 2247 pts to be timed here with EL line code and ‘-’ at Shenfield Trains from Platform 4 via 2248/2247 pts to be timed here with line code EL and ML at Shenfield
<b>Shenfield Up Loop</b>		ML		Timing point for all trains routed via the loop
<b><u>Shenfield</u></b>	-	ML EL - \$		Platform detail must be shown \$ applies to trains for the Up Passenger Loop and trains from Platform 1 and 2 crossing at 2247 pts at Shenfield London End Junction <i>To/from Southend Victoria - EA1050</i>
Shenfield Stabling Sidings		-	S	Platform detail must be shown as siding number is required for routing purposes
Shenfield Up Siding		-	S	
<i>Shenfield Junction</i>				<i>To/from Southend Victoria – EA1050 via Shenfield Platforms 1, 2 and 3</i>
<i>Shenfield Southend Loop Junction</i>				<i>To/from Southend Victoria – EA1050 via Shenfield Platforms 4 and 5</i>
Ingatestone Down Passenger Loop	-		S	
Ingatestone	- UML	- DML	S	Up trains starting/passing through Chelmsford Down platform to show ‘-’ in running line
Church Lane Crossing	DML UML	DML UML	X	Tiploc – CHURCHL. Timing point to be used for Single Line working
<b><u>Chelmsford</u></b>	-	- ML		Platform detail must be shown Up trains starting in Down platform to show ML in running line
Chelmsford Reception	-	-	F	
Chelmsford Down Passenger Loop	-	-	S	
Chelmsford Arbour Lane	-	- DML	X	Timing point to be used for Single Line working
Chelmsford Brick House Crossing	DML UML	DML UML	X	Tiploc – CHLMBHC. Timing point to be used for Single Line working

<b>EA1011 SEVEN KINGS TO IPSWICH</b>				
<b>TIMING POINT</b>	<b>DOWN</b>	<b>UP</b>	<b>CODE</b>	<b>NOTES</b>
Hatfield Peverel	-	-	S	
Witham Signal L763	-	-	S	Timing point to be used for trains required to reverse on the Up Main toward Witham Station
<b><u>Witham</u></b>	- UML	- DML		Platform detail must be shown Down trains using UML will be routed via Platform 1 at Kelvedon
Witham Up Tamper Siding	-		F	Tiploc – WITHSDG
<i>Witham Junction</i>				<i>To/from Braintree – EA1070</i>
<b>Witham Down Passenger Loop</b>	-	-		Timing point for stopping trains. Also used for trains from Platform 4 at Witham towards Colchester
<b>Witham Up Passenger Loop</b>		-		Trains via Witham Platform 1 to be timed at Witham Up Loop (Tiploc - WITHMUL) where possible as this is the preferred routing
Kelvedon	-	-	S	
<b><u>Marks Tey</u></b>	- UM	-		Platform detail must be shown Line code UM applies only during bi-directional working on the Up Line in the Down direction
<i>Marks Tey Junction</i>				<i>To/from Sudbury – EA1080</i>
Marks Tey Tarmac	-	-	F	Multiple FOC Location
Marks Tey Up Passenger Loop	-	-	S	
<i>Colchester South Junction</i>				<i>To/from Down Goods, Up Goods and Carriage Sidings</i>
Colchester Signal CO1033	-		S	Tiploc – CLCH033. For trains required to shunt on Up Main London End behind CO1033 with an RM in the Location Activity field
Colchester Goods Loop	-	-	S	Tiploc – CLCHGL
Colchester T.C.	-	-	S	Tiploc – CLCHSTY
Colchester CS	DM DPL	-	S	Only trains to/from CS
<b>Colchester Up Passenger Loop</b>		-		Timing point for all trains routed via the loop
Colchester Sudbury Siding		-	S	Tiploc – CLCHUSS. Formerly Sudbury Dock
<b><u>Colchester</u></b>	- CR CR3 DA	- DM UGL DGL		Platform detail must be shown Line code DM applies only during bi-directional working on the Down Line in the Up Direction Line codes CR and DA apply to trains towards Colchester East Gate Junction Line code CR3 for trains routed from Platform 3 via Up Main (avoiding Platform 4) towards Colchester East Gate Junction.
Colchester Up Clacton Siding	-	-	S	Tiploc – CLCHUCS. Formerly Colchester Bridge Road
<i>Colchester Junction</i>				<i>To/from Clacton – EA1090</i>
Manningtree Signal CO747	-		S	Tiploc – MANN747. For trains required to shunt between Platforms 2 and 3 or vice versa with an RM in the Location Activity field
<b><u>Manningtree</u></b>	-	-		Platform detail must be shown Platform 2 to be shown for services that are required to reverse or start towards Manningtree North or East Junctions over the Up lines
<i>Manningtree South Junction</i>				<i>To/from Harwich Town – EA1120</i>

<b>EA1011 SEVEN KINGS TO IPSWICH</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
Manningtree Down Refuge Siding	-		S	Tiploc – MANNGDS
Manningtree Signal CO750		-	S	Tiploc – CLCH750. For trains required to shunt to and from Down Refuge Siding with an RM in the Location Activity field
Manningtree North Junction	-	-	X	<i>To/from Harwich Town – EA1120</i> Also required for Down trains starting from Up platform at Manningtree
Manningtree Signal CO268		-	S	Tiploc – MANN268. Trains towards Manningtree East Junction, and which exceed the standage on the North Curve, are to be held at this location, if required. For ARS regulating purposes an Arr and Dep time are to be shown, and NOT pathing ( ) time, with an A in the Location Activity field
<b>Halifax Junction</b>	UL DL	-		
<b>Ipswich</b>	- DUL UM	UL DL		Platform detail must be shown <i>To/from East Suffolk Junction – EA1012</i>

<b>EA1012 IPSWICH TO TROWSE JUNCTION</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<b>Ipswich</b>	- DUL UM	UL DL		Platform detail must be shown <i>To/from Halifax Junction – EA1011</i>
Ipswich HS	-	-	S	Tiploc - IPSWCHS
Ipswich Signal CO822	-	-	S	Timing point for shunt moves to/from down side station sidings and Ipswich Station
Ipswich Signal CO326			S	Required for shunting movements
Ipswich Signal CO328			S	Required for shunting movements
Ipswich Down & Up Goods	-	-	S	Tiploc - IPSWUDG
Ipswich Reception Freightliner	-	-	F	Tiploc - IPSWSS
Ipswich Reception GBRF	-	-	F	Tiploc - IPSWYGB
Ipswich Reception DB Cargo	-	-	F	Tiploc - IPSWFDS
<b>East Suffolk Junction</b>	-	UM DUL		<i>To/from Westerfield – EA1430</i>
<b>Europa Junction</b>	-	-		Tiploc - IPSWEPJ <i>To/from Boss Hall Junction via Bacon Factory Curve – EA1744</i>
Claydon	-	-	S	
Barham Sidings			S	
Barham Ground Signal CO1379			S	Timing point to be used for services from the Stowmarket direction required to propel (PR) into Barham Sidings
Needham Market	-	-	S	
Stowmarket Down & Up Goods Loop	-	-	S	D&UGL
<b>Stowmarket</b>	-	-		
<b>Haughley Junction</b>	-	-		<i>To/from Bury St Edmunds – EA1530</i>
Cow Green Crossover	-	-	X	Timing point to be used for Single Line working
<b>Diss</b>	-	-		
Diss Reception	-	-	S	
<b>Flordon</b>	-	-		Tiploc - TROWFLR

<b>EA1012 IPSWICH TO TROWSE JUNCTION</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
Lakenham		-	X S	Tiploc - TROWLKJ Timing point for Up Services crossing from bi-directional Down Line and for reversal moves at GPL CO1747
<u>Trowse Junction</u>	-	- DM		Line code DM required for Up Services using bi-directional Down Line to Lakenham <i>To/from Norwich – EA1013</i>

<b>EA1013 TROWSE JUNCTION TO NORWICH</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<u>Trowse Junction</u>	-	- DM		Line code DM required for Up Services using bi-directional Down Line to Lakenham <i>To/from Ipswich – EA1012</i> <i>To/from Ely – EA1580</i>
Norwich Victoria Sidings	-		S	
Trowse Down & Up Passenger Loop	-	-	S	Tiploc - TROWSE
Trowse		-	F	Tiplocs - TROWFHH, TROWGBR
Trowse RT Roadstone	-	-	F	Tiploc - TROWSEY
Trowse GPL CO1760		-	S	Timing point to be used for reversal moves
<u>Trowse Swing Bridge</u>	C D	-		<i>To/from Crown Point Depot/Wensum Junction via Through Siding – EA1470</i>
<u>Norwich Thorpe Junction</u>	E C W	C D		<i>To/from Whitlingham Junction – EA1470</i>
Norwich Goods Yard		-	F	Tiplocs - NRCHTC & NRCHGBF
Norwich Low Level Sidings		-	S	Tiploc - NRCHLL
Norwich Royal Dock		-	S	Tiploc - NRCHDK Includes Short Dock, Long Dock, Royal Dock
Norwich Station Jubilee Sidings		E	S	Only trains to/from CS Tiploc - NRCHCSD
<u>Norwich</u>	-	E C W		Platform detail must be shown – use platform code MS for Middle Siding

<b>EA1020 CARPENTERS ROAD SOUTH JUNCTION TO CARPENTERS ROAD NORTH JUNCTION – CARPENTERS ROAD CURVE</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<u>Carpenters Road South Junction</u>	-	BL DBL ML		<i>To/from Liverpool Street – EA1010</i>
<i>Carpenters Road North Junction</i>				<i>To/from Channelsea South Junction – EA1150</i>
<u>Channelsea Junction</u>	AL -	-		AL to be used for trains routed via Channelsea Up Loop to Signal NL1286 at Lea Junction <i>(NB direction change)</i>

<b>EA1030 FOREST GATE JUNCTION TO WOODGRANGE PARK JUNCTION</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<u>Forest Gate Junction</u>	-	ML EL		<i>To/from Liverpool Street - EA1010</i>
<i>Woodgrange Park Junction</i>				<i>To/from Barking – EA1370</i>

<b>EA1040 ROMFORD TO UPMINSTER</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<b>Romford</b>	-	-		Timing point for all trains routed via EA1040 <i>To/from Ilford – EA1011</i>
Romford Signal L450	-	-		Tiploc - ROMF450
Emerson Park	- (Single)	- (Single)	S	
<b>Upminster</b>	- (Single)	- (Single)		

<b>EA1050 SHENFIELD JUNCTION TO SOUTHEND VICTORIA</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<i>Shenfield Junction</i>				<i>To/from Shenfield Platforms 1, 2 and 3</i>
<i>Shenfield Southend Loop</i>				<i>To/from Shenfield Platforms 4 and 5</i>
<b>Mountnessing Junction</b>	-	-		
Billericay	-	-	S	
Wickford Down Siding	-		S	
<b>Wickford</b>	- DML *	-		Platform detail must be shown * For ARS purposes, through trains which are reversing from the Southminster direction towards Southend Victoria and using Platform 2 must have DML shown in the Route/Line Code field
<i>Wickford Junction</i>				<i>To/from Southminster - EA1060</i>
Wickford Signal L5150		-	S	
Rayleigh	-	-	S	
<b>Hockley</b>	-	-		
Rochford	-	-	S	
Southend Airport	-	-	S	
Prittlewell	-	-	S	
Southend Up Carriage Sdgs	-	-	S	North and South
Southend Down Carriage Sdgs	-	-	S	North and South
<b>Southend Victoria</b>	-	-		Platform detail must be shown

<b>EA1060 WICKFORD JUNCTION TO SOUTHMINSTER</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<i>Wickford Junction</i>				<i>To/from Wickford/Southend - EA1050</i>
Battlesbridge	-	-	S	
South Woodham Ferrers	-	-	S	
<b>North Fambridge</b>	-	-		
Althorne	-	-	S	
Burnham-on-Crouch	-	-	S	
Southminster CEGB	-	-	F	
<b>Southminster</b>	-	-		

<b>EA1070 WITHAM JUNCTION TO BRAINTREE</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<i>Witham Junction</i>				<i>To/from Colchester/Chelmsford - EA1011</i>
White Notley	-	-	S	ECS trains must show an OP stop in the Up direction
Cressing	-	-	S	ECS trains must show an OP stop in the Down direction
Braintree Freeport	-	-	S	
<b>Braintree</b>	-	-		

<b>EA1080 MARKS TEY TO SUBBURY</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<i>Marks Tey Junction</i>				<i>To/from Colchester/Chelmsford - EA1011</i>
<b>Marks Tey</b>	-	-		Platform detail must be shown
Chappel & Wakes Colne	-	-	S	
Bures	-	-	S	
<b>Sudbury</b>	-	-		

<b>EA1090 COLCHESTER JUNCTION TO CLACTON-ON-SEA</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<i>Colchester Junction</i>				<i>To/from Colchester - EA1011</i>
Colchester Signal CO1072		-	S	Tiploc – CLCH072. For trains required to shunt via Up and Down Clacton with an RM in the Location Activity field
<b>East Gate Junction</b>	-	CR CR3 DA		<i>To/from Colchester Town – EA1100</i> Line code CR3 for trains routed towards Platform 3 via Up Main (avoiding Platform 4) at Colchester
<i>Hythe Junction</i>				<i>To/from Colchester Town – EA1100</i>
<b>Hythe</b>	-	-		
Wivenhoe	-	-	S	
Alresford	-	-	S	
Great Bentley	-	-	S	
Weeley	-	-	S	
Thorpe-le-Soken Down Electric Siding	-	-	S	Tiploc – THPLESS
<b>Thorpe-le-Soken</b>	-	-		Platform detail must be shown
<i>Thorpe-le-Soken Junction</i>				<i>To/from Walton-on-the-Naze - EA1110</i>
Thorpe-le-Soken Signal CO1148		-	S	Tiploc – THPL148. For trains required to shunt via Down Clacton with an RM in the Location Activity field
Clacton Signal CO1180	-		S	Timing point for reverse moves
Clacton Signal CO1183	-		S	Timing point for reverse moves
Clacton Wash Road	-		S	Timing point for shunt moves between Clacton (Station) and Clacton CS
<b>Clacton-on-Sea</b>	-	-		Platform detail must be shown
Clacton Down Sidings		-	S	Only trains to/from Sidings Sidings detail must be shown
Clacton Run Round Road		-	S	
Clacton CS		-	S	Only trains to/from CS

<b>EA1100 EASTGATE JUNCTION &amp; HYTHE JUNCTION TO COLCHESTER TOWN</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<b>East Gate Junction</b>	-	-		<i>To/from Colchester - EA1090</i>
<i>Hythe Junction</i>				<i>To/from Clacton - EA1090</i>
<i>Colne Jn</i>				
<b>Colchester Town</b>	-	-		

<b>EA1110 THORPE-LE-SOKEN JUNCTION TO WALTON-ON-THE-NAZE</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<i>Thorpe-le-Soken Junction</i>				<i>To/from Thorpe-le-Soken and Clacton - EA1090</i>
<b>Kirby Cross</b>	-	-		Platform 2 only to be specified for Up trains when required to use the bi-directional route
Frinton-on-Sea	-	-	S	
<b>Walton-on-the-Naze</b>	-	-		

<b>EA1120 MANNINGTREE TO HARWICH TOWN</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<b>Manningtree</b>	- UH	-		Platform detail must be shown Line code UH to be used for Down Trains using the Up Harwich Line
<i>Manningtree South Junction</i>				<i>To/from Colchester - EA1011</i>
Manningtree Signal CO196		-	S	Tiploc – CLCH196. For trains required to shunt between Platforms 1 and 2 at Manningtree with an RM in the Location Activity field
Manningtree Signal CO751		-	S	Tiploc – CLCH751. For trains required to shunt between Platforms 2 and 3 at Manningtree with an RM in the Location Activity field
<b>Manningtree North Junction</b>	-	-		<i>To/from Ipswich - EA1011</i>
Manningtree East Junction	-	-	X	Timing point for Down Trains from Manningtree using the Up Harwich Line or trains to/from Manningtree North Junction.
Mistley Down Loop	-	-	S	
Mistley	-	-	S	
Wrabness	-	-	S	
Parkeston Signal P211	-	-	S	Timing point for trains required to shunt
<b>Parkeston Goods Junction</b>	-	-		
Parkeston Signal P12	-	-	S	Timing point for trains required to shunt
Parkeston Signal P21	-	-	S	Timing point for trains required to shunt
Parkeston Carless Curve Headshunt	-	-	F	Timing point for trains required to shunt Tiploc - PRKSCRV
Parkeston Tip Sidings	-	-	F	
Parkeston Carless Refinery Headshunt	-	-	F	Timing point for trains required to shunt Tiploc - PRKSCLH
Parkeston Carless Refinery Sidings	-	-	F	
Parkeston Yard	-	-	F	
Parkeston C S	-	-	S	

<b>EA1120 MANNINGTREE TO HARWICH TOWN</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<u>Harwich International</u>	- DTS	- DH		Platform details must be shown Line code DH to be shown for Up trains on the Down Harwich Line towards Parkeston Goods Junction Line code DTS to be used for trains through Platform 1 towards the Down through Siding
<b>Parkeston Down Through Siding</b>	-	- DTS		All trains on the Down Through Siding to be timed here Line code to be shown for trains towards Harwich International Platform 1
Parkeston C. T.	-	-	F	
Dovercourt	-	-	S	
<u>Harwich Town</u>	-	-		

<b>EA1130 GRIFFIN WHARF BRANCH</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<u>Halifax Junction</u>	-	-		<i>To/from Colchester - EA1011</i>
Griffin Wharf	-	-	F	

<b>EA1140 IPSWICH DOCKS BRANCH</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<i>Ipswich Goods Junction</i>				<i>To/from Ipswich and Norwich - EA1012</i>
Ipswich Lower Yard Freight Terminal	-	-	F	This route is currently out of use

<b>EA1150 CHANNELSEA SOUTH JUNCTION TO STRATFORD CENTRAL JUNCTION WEST – CHANNELSEA CURVE</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<u>Channelsea Junction</u>	- NLL	- AL		NLL to be used for trains routed to Stratford Platforms 1 & 2 – See Route EA1320 AL to be used for trains routed via Channelsea Up Loop to Signal NL1286 at Lea Junction
<i>Channelsea South Junction</i>				<i>To/from Channelsea North Junction – EA1320</i> <i>To/from Stratford Platforms 1 &amp; 2 – EA1320</i>
<i>Carpenters Road North Junction</i>				<i>To/from Carpenters Road South Junction via Carpenters Road Curve – EA1020</i>
<i>Stratford Central Junction West</i>				<i>To/from Forest Gate Junction – EA1010</i> <i>To/from Temple Mills East Junction – EA1280</i>
<u>Stratford</u>	*	- AL		Platform detail must be shown * For Down Line codes see entry on Route EA1010 Up Line code AL to be used for trains routed via Signal NL1292 on Channelsea Up Loop (preferred route towards Lea Junction if available)

<b>EA1160 BETHNAL GREEN EAST JUNCTION TO BISHOP'S STORTFORD</b>				
<b>TIMING POINT</b>	<b>DOWN</b>	<b>UP</b>	<b>CODE</b>	<b>NOTES</b>
<i>Bethnal Green West Junction</i>				<i>To/from Liverpool Street – EA1010</i>
<b><u>Bethnal Green</u></b>	FL S MSF SMF ESF	ML EL S		
<i>Bethnal Green East Junction</i>				<i>To/from Liverpool Street – EA1010</i>
<i>Bethnal Green North Junction</i>				
Cambridge Heath	S	S	S	
London Fields	S	S	S	
Reading Lane Junction	-	S	X	Timing point for trains to/from Dalston Kingsland. <i>To/from Navarino Rd Junction – EA1180</i>
<b><u>Hackney Downs</u></b>	-	FL S		Platform details to be shown
<i>Hackney Downs North Junction</i>				<i>To/from Enfield Town – EA1170</i>
Clapton	-	-	S	
<b><u>Clapton Junction</u></b>	-	-		<i>To/from Chingford – EA1200</i>
<b><u>Coppermill Junction</u></b>	-	-		<i>To/from Temple Mills – EA1280</i> Timing point not required on LVR
<b><u>Tottenham South Junction</u></b>	-	-		<i>To/from Sth Tottenham East Junction – EA1290</i> Timing point not required on LVR
Tottenham Hale	- LVR	- LVR	S	
Northumberland Park	- LVR	- LVR	S	
Meridian Water	-	- LVR	S	
Ponders End	-	-	S	
<b><u>Brimsgate</u></b>	-	-		
Enfield Lock	-	-	S	
Waltham Cross	-	-	S	
<i>Cheshunt Junction</i>				<i>To/from Bury Street Junction – EA1190</i>
<b><u>Cheshunt</u></b>	-	DS* UC* -		Platform detail must be shown * A train starting from Cheshunt platform 2 and routed via the Up Southbury to Bury Street Junction will have a line code of either DS ("Down Southbury") which is the preferred route, or UC ("Up Cambridge"). See also Section 5.3
Broxbourne L5315	-		S	For trains required to reverse
<b><u>Broxbourne</u></b>	DPL -	-		Platform detail must be shown. Line code DPL to be shown for Down trains departing Platform 4 via Down Passenger Loop
Broxbourne DPL	-	DPL	S	For trains required to wait in Down Passenger Loop
Broxbourne Reception	-	-	F	Shown as Up Goods Loop
<b><u>Broxbourne Junction</u></b>	-	UPL UML -		Line code UML or UPL must be shown for Up trains routed towards Platform 1. <i>To/from Hertford East – EA1210</i>
Broxbourne C.E.G.B.	-	-	F	
Broxbourne L5331 (L.O.S)	-	-	F	For trains required to shunt from Broxbourne C.E.G.B.
Roydon	-	-	S	
<b><u>Harlow Town</u></b>	-	-		Platform detail must be shown

<b>EA1160 BETHNAL GREEN EAST JUNCTION TO BISHOP'S STORTFORD</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
Harlow Mill Down Goods Loop	-	-	S	
Harlow Mill Yard	-	-	F	Tiploc - HRLWMLY for DB Cargo Tiploc - HRLWFHH for Freightliner Tiploc - HRLWAIG for GBRF
Harlow Mill	-	-	S	
Sawbridgeworth	-	-	S	
Bishop's Stortford Reception	-	-	F	
Bishop's Stortford Up Passenger Loop	-	-	S	
Bishop's Stortford C.S.	-	-	S	
<b><u>Bishop's Stortford</u></b>	-	-		Platform detail must be shown <i>To/from Stansted Mountfitchet – EA1161</i>

<b>EA1161 BISHOP'S STORTFORD TO ELY NORTH JUNCTION</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<b><u>Bishop's Stortford</u></b>	-	-		Platform detail must be shown <i>To/from Harlow Town – EA1160</i>
<b><u>Stansted Mountfitchet</u></b>	-	-		
Stansted Mountfitchet Down Goods Loop	-	-	S	
<i>Stansted South Junction</i>				<i>To/from Stansted Airport – EA1220</i>
<b><u>Stansted North Junction</u></b>	-	-		<i>To/from Stansted Airport – EA1220</i>
Elsenham	-	-	S	
Newport	-	-	S	
<b><u>Audley End</u></b>	-	-		Down trains booked via Up platform must show Up platform (UPL)
Great Chesterford Loop		-	S	
Great Chesterford	-	-	S	
Whittlesford Parkway	-	-	S	
Whittlesford Down Goods Loop	-		F	
Whittlesford Signal CA540		-	S	
Whittlesford Reception	-		S	
Shelford	-	-	S	
<b><u>Shepreth Branch Junction</u></b>	DM DS DMT DST	-		<i>To/from Royston – EA1230</i> DMT & DST for trains to the Through Line or platform 4 via the Through Line only. See Appendix B for example diagrams.
Cambridge Signal CA147	DS DST		S	
Cambridge Signal CA149	DM DMT		S	
Cambridge Signal CA647	UM UMT		S	Timing point for shunt movements only
<b><u>Cambridge</u></b>	DM TL DMG TLG PL	UM UX 1UM 1UX DM DS		Platform detail must be shown TL & TLG for trains from the Through Line or platform 1 via the Through Line only. See Appendix B for example diagrams. PL for trains to Cambridge Carriage Sidings North only
Cambridge Signal CA164		UMT	S	
Cambridge Signal CA177	TL		S	Required for ECS movements from Cambridge platform 1 to Cambridge Carriage Sidings North when platform 4 is occupied

<b>EA1161 BISHOP'S STORTFORD TO ELY NORTH JUNCTION</b>				
<b>TIMING POINT</b>	<b>DOWN</b>	<b>UP</b>	<b>CODE</b>	<b>NOTES</b>
Cambridge Reception Roads 1 & 2	DM DMG PL	UM DS	S	Trains to/from Cambridge Reception Roads 1 & 2 PL for trains to Cambridge Carriage Sidings North only Please note this location is parallel to Cambridge station and trains do not need to be timed at both locations unless shunting between them. Tiploc – CAMBGTC for DB Cargo Tiploc – CAMBYFL for Freightliner Tiploc – CAMBTGB for GB Railfreight Tiploc – CAMBREC for other operators
Cambridge Reception Sidings	- PL	UM DM DS	S	Tiploc – CAMBTRS Line code DM only applies for movements to Signal CA149. Line code DS only applies for movements to Signal CA147.
Cambridge Carriage Sidings South	PL		S	
Cambridge L.H.S.	- DM DMG TL		S	
Cambridge Signal CA708		- UM UM4	S	Timing point for shunt movements only
Cambridge Signal CA180		-	S	
Mill Road Junction	- DM DMG	- UM UMT UM4 PL	X	Only trains to/from Cambridge Carriage Sidings (Cambridge Carriage Sidings North, Cambridge Carriage Sidings South and Cambridge Reception Sidings) PL for trains from Cambridge Carriage Sidings North only
Cambridge Carriage Sidings North	-	-	S	
Cambridge Signal CA732		UM UMT UM4 UX	S	For ECS movements between Cambridge station and Cambridge Reception Sidings or Cambridge Carriage Sidings South Tiploc – CAMB732
Cambridge T.M.D.		- UM UMT UM4 UX	S	Only trains to/from T.M.D.
<b><u>Coldham Lane Junction</u></b>	-	UM UMT UM4 UX		<i>To/from Chippenham Junction – EA1530</i> UMT and UM4 for trains to the Through Line and platform 1 only. UX to be available following planned re-signalling only. See Appendix B for example diagrams.
Barnwell Junction B.P.	-	-	F	
Chesterton Junction	-	-	F	Timing point for trains routed into the yard only
<b>Cambridge North</b>	-	-		Platform detail must be shown
Chesterton Junction Yard	-	-	F	Please note that this location is parallel to Cambridge North station and trains do not need to be timed at both locations. Tiploc – CESTRTR for DB Cargo Tiploc – CESTFHH for Freightliner Tiploc – CESTGBR for GB Railfreight Tiploc – CESTRTB for other operators
Chesterton Junction Yard North Junction	-	-	X	

<b>EA1161 BISHOP'S STORTFORD TO ELY NORTH JUNCTION</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<b>Waterbeach</b>	-	-		
Dimmock's Cote Level Crossing	-	-	S	Timing point required for engineering trains travelling to/from a worksite nearby only
Ely Signal CA253	-		S	Old Sutton Junction. For reversals from Ely Reception
<b>Ely Dock Junction</b>	DL UL -	-		<i>To/from Chippenham Junction – EA1540.</i> Line code must be shown
Ely Recp.	DL	-	F	Down Goods Loop/Down Through Siding. Line code must be shown on departure
<b>Ely</b>	DL UL	UL DL -		Platform detail must be shown. Line code must be shown
Ely Papworth Sidings	-	-	F	Locations within Yard either DB Cargo, GBRf or FLHH Tiploc dependent on traffic Tiploc – ELYYPAW for DB Cargo Tiploc – ELYYGBF for GBRf Tiploc – ELYYFLT for Freightliner
<b>Ely North Junction</b>	-	UL DL EWC		Line code must be shown. <i>To/from King's Lynn – EA1162,</i> <i>To/from Ely West Junction – EA1550,</i> <i>To/from Peterborough – EA1560,</i> <i>To/from Norwich – EA1580</i>

<b>EA1162 ELY NORTH JUNCTION TO KING'S LYNN</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<b>Ely North Junction</b>	-	UL DL EWC		Line code must be shown. <i>To/from Ely – EA1161,</i> <i>To/from Ely West Junction – EA1550</i>
Littleport Signal L24	-		S	Trains to be held at Littleport Signal L24 if required for pathing purposes. See Littleport Signal L22 for details.
<b>Littleport</b>	-	-		Platform detail must be shown
Littleport Signal L22	-		S	Trains which exceed the platform length may not be held in Littleport station. Trains up to 300m in length may be held at Littleport L22. Trains in excess of 300m in length must be held at Littleport Signal L24.
<b>Downham Market</b>	-	-		Platform detail must be shown
Downham Market Reception	-		F	
Downham Market Signal DM8	-	-	S	For trains required to reverse
Watlington Signal MR2	-		S	Trains to be held at Watlington Signal MR2 instead of Watlington if dwell longer than one minute is required for pathing purposes. This is due to level crossing risk at Watlington
<b>Watlington</b>	-	-		Platform detail must be shown
<b>King's Lynn Signal KL45</b>	-			Timing point for all trains in the Down direction
<i>King's Lynn Harbour Junction</i>				
<b>King's Lynn Signal KL36</b>		-		Timing point for all trains in the Up direction

**EA1162 ELY NORTH JUNCTION TO KING'S LYNN**

TIMING POINT	DOWN	UP	CODE	NOTES
King's Lynn Signal KL43	-	-	S	Reversing point for trains shunting between platforms / sidings at King's Lynn without fouling access to the Stabling Siding or Tennyson Avenue Level Crossing
King's Lynn Stabling Siding	-		S	Tiploc – KLYNNSS
<b>King's Lynn Junction</b>	-	-		<i>To/from Middleton Towers – EA1270</i>
King's Lynn T.C.	-	-	F	Only trains to/from T.C.
King's Lynn C.S.	-	-	S	Only trains to/from C.S.
<b>King's Lynn</b>	-	-		Platform detail must be shown

**EA1170 HACKNEY DOWNS NORTH JUNCTION TO ENFIELD TOWN**

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Hackney Downs North Junction</i>				<i>To/from Hackney Downs – EA1160</i>
Rectory Road	-	-	S	
Stoke Newington	-	-	S	
Stamford Hill	-	-	S	
Seven Sisters Signal L5511	-	-	S	For trains required to reverse
<i>Seven Sisters Junction</i>				
<b>Seven Sisters</b>	-	-		
Bruce Grove	-	-	S	
White Hart Lane	-	-	S	
Silver Street	-	-	S	
Edmonton Green	-	-	S	
<b>Bury Street Junction</b>	-	-		<i>To/from Cheshunt Junction – EA1190</i>
Bush Hill Park	-	-	S	
Enfield Town Signal L5531	DED		S	Timing entry for Signal L5531 – Reversal point for trains to shunt between platforms at Enfield Town. Line code for Up direction not required as signal faces in down direction.
<b>Enfield Town</b>	-	-		Platform detail must be shown

**EA1180 READING LANE JUNCTION TO NAVARINO ROAD JUNCTION  
(GRAHAM ROAD CURVE)**

TIMING POINT	DOWN	UP	CODE	NOTES
Reading Lane Junction	-	-	X	<i>To/from Liverpool Street – EA1160</i> All trains in Up direction on Graham Road Curve, from North London Lines, to be shown with minimum 1min Arr/Dep time ('OP' in Activity Field) for ARS regulating purposes
Navarino Road Junction	-	-	X	<i>To/from Camden Road – EA1320</i>

<b>EA1190 BURY STREET JUNCTION TO CHESHUNT JUNCTION</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<b>Bury Street Junction</b>	-	-		<i>To/from Hackney Downs – EA1170</i>
Southbury	-	-	S	
Turkey Street	-	-	S	
Theobalds Grove	-	-	S	
Cheshunt Junction Signal L1395	-	-	S	Trains in Down direction on Southbury Loop which require ( ) time approaching Cheshunt to be shown with Arr/Dep ('A' in Activity Field) for ARS regulating purposes
<i>Cheshunt Junction</i>				<i>To/from Broxbourne – EA1160</i>

<b>EA1200 CLAPTON JUNCTION TO CHINGFORD</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<b>Clapton Junction</b>	-	-		<i>To/from Clapton – EA1160</i>
St James Street	-	-	S	
<b>Walthamstow Central</b>	-	-		
Wood Street	-	-	S	
Highams Park	-	-	S	
Chingford London End CS			S	Trains to/from Chingford London End CS
Chingford Country End CS			S	Trains to/from Chingford Country End CS
<b>Chingford</b>	-	-		Platform detail must be shown

<b>EA1210 BROXBOURNE JUNCTION TO HERTFORD EAST</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<b>Broxbourne Junction</b>	-	-		<i>To/from Hertford East – EA1210</i>
Rye House	-	-	S	
St Margarets	-	-	S	
<b>Ware</b>	-	-		
<b>Hertford East</b>	-	-		Platform detail must be shown

<b>EA1220 STANSTED SOUTH &amp; NORTH JUNCTIONS TO STANSTED AIRPORT</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<i>Stansted South Junction</i>				<i>To/from Stansted Mountfitchet – EA1161</i>
<b>Stansted North Junction</b>	-	-		<i>To/from Cambridge – EA1161</i>
<b>Stansted East Junction</b>	-	-		
<b>Tye Green Junction</b>	-	-		
<b>Coopers Lane Junction</b>	- DL	-		Line code DL to be shown for trains routed via Signal L1143 & the Departure Line. Default line code (-) needs to be shown for trains routed via Signal L1201 & the Arrival Line as AL is the default for ARS.
Stansted Airport Signal L1201	-	-	S	

**EA1220 STANSTED SOUTH & NORTH JUNCTIONS TO STANSTED AIRPORT**

TIMING POINT	DOWN	UP	CODE	NOTES
Stansted Airport Signal L1143	-		S	
<b>Stansted Airport</b>	-	- AL		Platform detail must be shown. Line code AL to be shown for trains routed via the Arrival Line. Default line code (-) needs to be shown for trains routed via the Departure Line as DL is the default for ARS.

**EA1230 ROYSTON TO SHEPRETH BRANCH JUNCTION**

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Royston</b>	-	-		<i>To/from Hitchin – Refer to LNE Timetable Planning Rules – LN125</i>
Meldreth	-	-	S	
Shepreth	-	-	S	
Foxtan Exchange Sidings	-	-	F	Leading to Barrington terminal including run round and loading/unloading pad Foxtan Exchange Sidings Tiplocs – FOXTGBF, FOXTRC, FOXTDCR, FOXTFHH Barrington Tiplocs – FOXTBAR, FOXTBRR, FOXTBUG, FOXTBUP, FOXTRRG
<b>Foxtan</b>	-	-		
<b>Shepreth Branch Junction</b>	-	-		<i>To/from Cambridge – EA1161</i>

**EA1270 KING'S LYNN JUNCTION TO MIDDLETON TOWERS**

TIMING POINT	DOWN	UP	CODE	NOTES
<i>King's Lynn Junction</i>				<i>To/from King's Lynn T.C. – EA1162</i>
Middleton Towers	-	-	F	

**EA1280 STRATFORD CENTRAL JUNCTION TO COPPERMILL JUNCTION**

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Stratford Central Junction West</i>				<i>To/from Liverpool Street – EA1010 To/from Channelsea South Junction – EA1150</i>
<b>Stratford</b>	-	BL DBL		Platform detail must be shown
<b>Temple Mills East Junction</b>	-	-		<i>To/from High Meads Junction – EA1350</i>
Ruckholt Road Junction	-		X	Timing point in Down Direction for trains approaching Temple Mills Loop or Orient Way CS only
Temple Mills Loop	-	-	S	
Orient Way C S	-	-	S	
Lea Bridge	- LVR	-	S X	

**EA1280 STRATFORD CENTRAL JUNCTION TO COPPERMILL JUNCTION**

TIMING POINT	DOWN	UP	CODE	NOTES
Coppermill Junction Signal L1005	-		S	All Down trains on the Temple Mills line which require pathing time approaching Coppermill Junction to be shown with Arr/Dep ('A' in Activity Field) for ARS regulating purposes
<b>Coppermill Junction</b>	-	-		<i>To/from Tottenham Hale – EA1160</i> Timing point not required on LVR

**EA1290 TOTTENHAM SOUTH JUNCTION TO SOUTH TOTTENHAM EAST JUNCTION**

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Tottenham South Junction</b>	-	-		<i>To/from Coppermill Junction – EA1160</i>
Tottenham South Junction Signal L1004		-	S	Trains in Up direction from Sth Tottenham East Junction which require pathing time approaching Coppermill Junction to be shown with Arr/Dep ('A' in Activity Field) for ARS regulating purposes
South Tottenham Signal S17	-		S	
<i>South Tottenham East Junction</i>				<i>To/from South Tottenham – EA1370</i>

**EA1300 SOUTH TOTTENHAM WEST JUNCTION TO SEVEN SISTERS JUNCTION**

TIMING POINT	DOWN	UP	CODE	NOTES
<i>South Tottenham West Junction</i>				<i>To/from South Tottenham – EA1370</i>
South Tottenham Signal S16		-	S	
Seven Sisters Signal L1327	-		S	Conditional timing point for trains which stop at this signal in the Down Direction
<i>Seven Sisters Junction</i>				<i>To/from Seven Sisters – EA1170</i>

**EA1310 CAMDEN ROAD (WEST) JUNCTION TO RICHMOND**

TIMING POINT	DOWN WEST BOUND	UP EAST BOUND	CODE	NOTES
<b>Camden Road (West) Junction</b>	-	-		Tiploc – CMDNRDJ <i>To/from Camden Road – EA1320</i>
Kentish Town West	-	-	S	
<b>Gospel Oak</b>	-	-		Platform detail must be shown
<i>Gospel Oak Junction</i>				<i>To/from Barking – EA1370</i>
Gospel Oak Signal NL1000		-	S	Timing point for trains reversing at Gospel Oak
<b>Hampstead Heath</b>	-	-		Timing point for all trains westbound Timing point for stopping trains only eastbound
Finchley Road & Frognal	-	-	S	
<b>West Hampstead</b>	-	-		
Brondesbury	-	-	S	
Brondesbury Park	-	-	S	
Kensal Rise	-	-	S	
Kensal Green Turnback	-	-	S	All trains using siding

<b>EA1310 CAMDEN ROAD (WEST) JUNCTION TO RICHMOND</b>				
TIMING POINT	DOWN WEST BOUND	UP EAST BOUND	CODE	NOTES
<b><u>Kensal Green Junction</u></b>	-	-		<i>To/from Harlesden Junction – Refer to NW&amp;C Timetable Planning Rules – MD155 To/from Willesden Junction Low Level – Refer to NW&amp;C Timetable Planning Rules – MD150</i>
Willesden Junction Turnback	-	-	S	All trains using the siding Tiploc - WLSDJHT
<b><u>Willesden Junction High Level</u></b>	-	-		Platform detail must be shown
<i>Willesden Junction High Level Junction</i>				<i>To/from Mitre Bridge Junction – Refer to NW&amp;C Timetable Planning Rules – MD160</i>
<b><u>Acton Wells Junction</u></b>	-	-		<i>To/from Acton East Junction – Refer to Western &amp; Wales Timetable Planning Rules – GW130 To/from Dudding Hill Branch – EA1360 To/from Willesden South West Sidings – Refer to NW&amp;C Timetable Planning Rules – MD167</i>
Acton Central	-	-	S	
<b><u>South Acton</u></b>	-	-		
<i>South Acton Junction</i>				<i>To/from Kew East Junction – EA1330</i>
<i>Gunnersbury Junction</i>				<i>To/from Turnham Green (LUL)</i>
<b><u>Gunnersbury</u></b>	-	-		
Kew Gardens	-	-	S	
<b><u>Richmond</u></b>	-	-		Platform detail must be shown

<b>EA1320 CAMDEN ROAD WEST JUNCTION TO STRATFORD PLATFORMS 1 AND 2</b>				
TIMING POINT	DOWN EAST BOUND	UP WEST BOUND	CODE	NOTES
<b><u>Camden Road (West) Junction</u></b>	-	-		Tiploc - CMDNRDJ <i>To/from Gospel Oak – EA1310 To/from Camden Jn – Refer to NW&amp;C Timetable Planning Rules – MD145</i>
Camden Road	-	-	S	Platform detail must be shown
Camden Road Central Junction	-	-	X	Timing point for Down trains on the Up Line and Down trains towards North London Incline Tiploc – CMDNRCJ
<i>Camden Road Incline Junction</i>				<i>To/from Cedar Junction – Refer to Kent &amp; HS1 Timetable Planning Rules – SO420</i>
<b><u>Camden Road East Junction</u></b>	RL NL REV	- REV		Tiploc – CMDNREJ
Caledonian Road & Barnsbury	NL REV	REV	S	Platform detail must be shown (Platform 1 REV, Platform 2 NL)
<b><u>Westbourne Road Junction</u></b>	- UNL	NL REV		Up Line code UNL to be shown for trains towards Highbury and Islington NLL Platform 7. Tiploc – WSBRRNJ
Highbury Signal NL1238		-	S	Timing point on ELL transfer track for trains which change traction current in up direction Tiploc - HIGH238 <i>From Highbury and Islington ELL – Refer to Sussex Timetable Planning Rules – SO511</i>

<b>EA1320 CAMDEN ROAD WEST JUNCTION TO STRATFORD PLATFORMS 1 AND 2</b>				
<b>TIMING POINT</b>	<b>DOWN EAST BOUND</b>	<b>UP WEST BOUND</b>	<b>CODE</b>	<b>NOTES</b>
Highbury Signal EL321	-		S	Timing point on ELL transfer track for trains which change traction current in down direction Tiploc - HIGH321 <i>To Highbury and Islington ELL Platform 2 – Refer to Sussex Timetable Planning Rules – SO511</i>
Highbury and Islington	-	-	S	Platform detail must be shown – NLL Platform 7 Up (Westbound) and 8 Down (Eastbound). Tiploc - HIGHBYA
<b><u>Canonbury West Junction</u></b>	- UNL	- DNL		Line code UNL is to be shown for trains towards Canonbury Platform 3. Line code DNL is for trains towards Highbury and Islington Platform 8 <i>To/from Finsbury Park – Refer to LNE Timetable Planning Rules – LN110</i>
Canonbury	-	-	S	Platform detail must be shown – NLL Platform 3 Up (Westbound) and 4 Down (Eastbound). Tiploc - CNNB
Dalston Kingsland	-	-	S	
<b><u>Navarino Road Junction</u></b>	-	-		<i>To/from Reading Lane Junction – EA1180</i>
Hackney Central	-	-	S	
Homerton	-	-	S	
Victoria Park Junction	- UNL		X	Crossover location Down to Up Line
Hackney Wick	- UNL	-	S	Platform 1 to be shown for Down (Eastbound) trains turning round
<b><u>Lea Junction</u></b>	-	-		<i>To/from High Meads Junction – EA1340</i>
<i>Channelsea Up Loop Signal NL1286</i>				Due to ARS specifications stops must be shown at Lea Jn (Tiploc – LEAJ), ARS will then hold the train at Signal NL1286
<i>Channelsea North Junction</i>				<i>To/from High Meads Junction – EA1350</i>
<b><u>Channelsea Junction</u></b>	NLL -	- AL		Up Line code AL to be used by trains routed via Channelsea Up Loop and Signal NL1286
<i>Channelsea South Junction</i>				<i>To/from Stratford Central Junction West via Channelsea Curve – EA1150</i>
<b><u>Stratford Platforms 1 and 2</u></b>	-	NLL		Platform detail must be shown

<b>EA1325 HIGHBURY AND ISLINGTON TO DALSTON JUNCTION (EXCLUSIVE)</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
				Route EA1325 is being retained in the Anglia WON to show activity between Highbury and Islington and Dalston Junction where Route EA1320 (North London Line) runs parallel. For East London Line timetable planning purposes however, reference should be made to Route SO511 in the Sussex Timetable Planning Rules.
<u>Highbury and Islington</u>	-	-		<i>To/from Westbourne Road Jn – EA1320</i> Platform detail must be shown Tiploc HIGHBYE applies to East London Line Services using Platforms 1 and 2 Tiploc HIGHBYA applies to North London Line services using Platforms 7 and 8 on EA1320
Canonbury	-	-	S	Platform detail must be shown Tiploc CNNBELL applies to East London Line Services using Platforms 1 and 2 Tiploc CNNB applies to North London Line services using Platforms 3 and 4 on EA1320
<u>TfL/NR Boundary</u>	-	-		Tiploc ELLBNLL
<u>Dalston Junction</u>				Platform detail must be shown <i>To/from New Cross Gate – SO511</i>

<b>EA1330 SOUTH ACTON JUNCTION TO OLD &amp; NEW KEW JUNCTIONS</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<i>South Acton Junction</i>				<i>To/from Acton Wells Junction – EA1310</i>
<u>Kew East Junction</u>	-	-		
New Kew Junction	-	-	X	Southern Region timing point for trains towards Barnes
<i>Old Kew Junction</i>				<i>Southern Region boundary</i>
Brentford	-	-	X	Southern Region timing point for trains towards Hounslow

<b>EA1340 STRATFORD LEA JUNCTION TO HIGH MEADS JUNCTION – LEA CURVE</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<u>Lea Junction</u>	-	-		<i>To/from Hackney Wick – EA1320</i>
<u>High Meads Junction</u>	-	-		<i>To/from Temple Mills East Junction – EA1350</i>

<b>EA1350 CHANNELSEA NORTH JUNCTION TO TEMPLE MILLS EAST JUNCTION</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<u>Channelsea Junction</u>	-	-		
<i>Channelsea North Junction</i>				<i>To/from Channelsea South Junction – EA1320</i> <i>To/from Lea Junction – EA1320</i>
<u>High Meads Junction</u>	-	-		<i>To/from Lea Junction via Lea Curve – EA1340</i>
<u>Temple Mills East Junction</u>	-	-		<i>To/from Coppermill Junction – EA1280</i>

**EA1360 DUDDING HILL JUNCTION TO ACTON WELLS JUNCTION**

TIMING POINT	DOWN	UP	CODE	NOTES
<u>Dudding Hill Junction</u>	-	-		To/from Brent Curve Junction – Refer to East Midlands Timetable Planning Rules – LN3222 To/from Cricklewood Curve Junction – Refer to East Midlands Timetable Planning Rules – LN3219
Neasden Junction	-	-	X	To/from Neasden South Jn – Refer to NW&C Timetable Planning Rules – MD715
<u>Acton Canal Wharf</u>	-	-		To/from Willesden No.7 – Refer to NW&C Timetable Planning Rules – MD170
<u>Acton Wells Junction</u>	-	-		To/from Acton Central – EA1310 To/from Willesden South West Sidings – Refer to NW&C Timetable Planning Rules – MD167

**EA1370 GOSPEL OAK TO BARKING TILBURY LINE JUNCTION WEST**

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Gospel Oak Junction</i>				To/from Kensal Green Junction – EA1310
<u>Gospel Oak</u>	-	-		Platform detail - Through Lines or Bay Platform Number must be shown in platform field – (DTH, UTH, BAY)
Gospel Oak Signal NL1304	-		S	Timing point for reversing moves at Gospel Oak. Tiploc - GOSP304
Gospel Oak Signal NL1306		-	S	
<u>Junction Road Junction</u>	-	-		To/from Carlton Road Junction – Refer to East Midlands Timetable Planning Rules – LN3210
Upper Holloway Up Goods Loop	-	-	S	Also known as Upper Holloway Up Reception Line. This location is adjacent to the westbound track.
<u>Upper Holloway</u>	-	-		
Crouch Hill	-	-	S	
<u>Harringay Park Junction</u>	-	-		To/from Harringay Junction – Refer to LNE Timetable Planning Rules – LN165 then LN101
Harringay Green Lanes	-	-	S	
<i>South Tottenham West Junction</i>				To/from Seven Sisters Junction – EA1300
<u>South Tottenham</u>	-	-		
<i>South Tottenham East Junction</i>				To/from Tottenham South Junction – EA1290
South Tottenham Signal S19		-	S	Timing point for reverse moves to/from South Tottenham
Blackhorse Road	-	-	S	
Walthamstow Queens Road	-	-	S	
<u>Leyton Midland Road</u>	-	-		
Leytonstone High Road	-	-	S	
Wanstead Park	-	-	S	
<i>Woodgrange Park Junction</i>				To/from Forest Gate Junction – EA1030
<u>Woodgrange Park</u>	-	-		
<u>Barking Station Junction</u>	-	-		
<u>Barking</u>	-	-		Barking Platform 1 only. For other platforms see EA1380.
Barking Signal UR1103	-		S	Reversing trains only
<i>Barking Tilbury Line Junction West</i>				To/from Barking Platforms 7/8 – EA1380

<b>EA1380 FENCHURCH STREET TO SHOEBURYNESS</b>				
<b>TIMING POINT</b>	<b>DOWN</b>	<b>UP</b>	<b>CODE</b>	<b>NOTES</b>
<b><u>Fenchurch Street</u></b>	FL SL	-		Platform detail must be shown. Running line code must be shown
<b><u>Christian Street Junction</u></b>	-	FL SL		Running line code must be shown in Up direction
Limehouse	-	-	S	
Gas Factory Loop	-	-	S X	All trains using Loop
<b><u>Gas Factory Junction</u></b>	-	-		<i>To/from Bow Junction – EA1400</i>
<b><u>West Ham</u></b>	- DX	-		Line code DX to be used for trains which are routed to Barking Platforms 7 and 8 via East Ham Depot Country End Junction and Signals 519 and 907
East Ham EMUD	- DX	-	S	Only trains to/from EMUD. Line code DX to be used for trains which are routed to Barking Platforms 7 and 8 via Signals 519 and 907
<b><u>Barking</u></b>	- ML DCL UCL	-		Platform detail must be shown. Line code to be shown in Down direction for freight trains towards Ripple Lane/Dagenham Dock. Line codes DCL and UCL to be used for shunting moves onto the connecting lines to Barking Upney Junction
Barking Upney Junction	-	DCL UCL	S X	Line codes DCL and UCL to be used for shunting moves on the connecting lines to Barking
<b><u>Upminster</u></b>	-	-		Platform detail must be shown for trains which use other than normal routes. <i>To/from Ockendon – EA1410</i>
West Horndon	-	-	S	
<b><u>Laindon</u></b>	-	-		Platform detail must be shown for trains which use other than normal routes and for trains using Reversing Line (Middle Road)
Basildon	-	-	S	
<b><u>Pitsea</u></b>	-	-		Platform detail must be shown
<i>Pitsea Junction</i>				<i>To/from Grays – EA1390</i>
Benfleet	-	-	S	
<b><u>Leigh-on-Sea</u></b>	-	-		Platform detail must be shown for all trains which use other than normal routes and for trains using Reversing Line (Middle Road)
Chalkwell	-	-	S	
Westcliff-on-Sea	-	-	S	
<b><u>Southend Central</u></b>	-	-		Platform detail must be shown
Southend East	-	-	S	
Thorpe Bay	-	-	S	Platform detail must be shown
<b><u>Shoeburyness Depot</u></b>	-	-		
<b><u>London End Junction</u></b>	-	-		
Shoeburyness CSD	-	-	S	Only trains to/from CSD
Shoeburyness MOD	-	-	F	
<b><u>Shoeburyness</u></b>	-	-		Platform detail must be shown

<b>EA1390 BARKING TILBURY LINE JUNCTION EAST TO PITSEA (VIA TILBURY)</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<i>Barking Tilbury Line Junction East</i>				<i>To/from Barking – EA1380</i>
Barking Signal UR1104		-	S	Reversing trains only
<b>Barking Riverside Up Junction</b>		ML		All Up trains to be timed here
Barking Ripple Road Junction		RL	S	Timing point for trains booked to stop at Ripple Lane Signal 846 on the Departure Line from Ripple Lane West S.S. or the Up Goods Line
<b>Ripple Lane Sig. 806</b>		GL		Tiploc - RPLL806 Timing point for trains on the Up Goods line that are not routed via Ripple Lane West S.S.
<b>Ripple Lane West Junction</b>	ML GL RL	RL		All Down trains and Up Riverside trains to be timed here <i>From Barking Riverside – EA1395</i>
Ripple Lane West S.S.	GL	GL	S	Tiploc - RPLLWSS Timing point for trains routed via West S.S. Use Ripple Lane Sig. 807 for trains routed via the Down Goods Line
<i>Barking Riverside Down Junction</i>				<i>To Barking Riverside – EA1395</i>
<b>Ripple Lane Sig. 807</b>	GL			Tiploc - RPLL807 Timing point for trains on the Down Goods that are not routed via Ripple Lane West S.S.
<b>Ripple Lane Renwick Road Junction</b>	-	ML GL		All traffic in the Up direction must be timed here and freight only in the Down direction if running to Ripple Lane Exchange Sidings
Ripple Lane Exchange Sidings	-	-	F	<i>To/From Dagenham Junction – South East Route, Kent &amp; HS1 Area, SO400</i>
Barking Eurohub	-		S	Tiploc – RPLLEUR Timing point accessed from the Ripple Lane Down Through Siding located adjacent to Ripple Lane FLT and east of 'H Group Sidings'.
Ripple Lane Stora Sidings	-		F	
Renwick Road Biffa	-		F	Tiploc – RPLLRRB
Ripple Lane Sig. FW6	-		F	
Ripple Lane F.L.T.	GL	GL	F	
Ripple Lane H Group Sidings	-		F	
Dagenham Storage Coy Sidings	-		F	
<b><u>Dagenham Dock</u></b>	-	ML GL		Line code ML for trains routed on the Up Tilbury Line towards Barking and Line code GL for trains routed on the Up Goods Line towards Ripple Lane yards and Barking
Dagenham Dock Reception	-	-	F	
Dagenham Dock A.R.C.	-	-	F	
Dagenham Signal UR826	-	-	F	Timing point for trains routed to/from Dagenham Down Yard. Required in schedules routed in both directions as it is the ARS boundary point.
Dagenham Down Yard	-	-	F	
<b>Rainham</b>	-	-		
<b>Purfleet</b>	- LS	-		
<b>Deep Wharf LC</b>	LS -	LS	F	All trains on Long Siding to be timed here

<b>EA1390 BARKING TILBURY LINE JUNCTION EAST TO PITSEA (VIA TILBURY)</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
Purfleet Deep Water Wharf		-	F	Tiplocs PRFLFLT or PRFLTIT dependent on traffic
Purfleet Foster Yeoman	-		F	Tiplocs PRFLFYM, PRFLGGBR or PRFLLAFF dependent on traffic
<b>Jurgens LC</b>	LS	- LS	F	All trains on long siding to be timed here
Purfleet Sig. UR1176		-	F	Departures from the long siding via 2267 crossover to the up tilbury to be timed here
West Thurrock Sidings	-		F	
West Thurrock Headshunt		- LS	F	
<b>West Thurrock Junction</b>	RVL -	-		<i>To/from Upminster – EA1410</i> Line code RVL to be shown for Down trains using Third Line
<b>Grays</b>	-	RVL -		Line code RVL to be shown for Up trains using Third Line
Seabrooks RS	-	-	F	
Tilbury FLT	-	-	F	
Tilbury PLA Grain Terminal	-	-	F	
<b>Tilbury Town</b>	-	-		
Tilbury Railport Junction	-	-	X	For trains to/from Tilbury2 Terminals
Tilbury2 CMAT Sidings		-	F	Construction Materials & Aggregates Terminal Tiploc TLBYTAR
Tilbury2 Container Terminal		-	F	Tiplocs TLBYPFL, TLBPGB, TLBYPRT
East Tilbury	-	-	S	Platform detail must be shown
<b>Thames Haven Junction</b>	-	-		<i>To/from Thameshaven – EA1420</i>
<b>Stanford-le-Hope</b>	-	-		Platform detail must be shown for trains
<b>Pitsea</b>	-	-		Platform detail must be shown
<i>Pitsea Junction</i>				<i>To/from Shoeburyness – EA1380</i>

<b>EA1395 RIPPLE LANE WEST JUNCTION TO BARKING RIVERSIDE</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<b>Ripple Lane West Junction</b>	ML GL RL	RL		All Down trains and Up Riverside trains to be timed here <i>To Barking Riverside Up Junction – EA1390</i> <i>From Ripple Lane West Junction – EA1390</i>
<i>Barking Riverside Down Junction</i>				
<b>Barking Riverside</b>		RL		Platform detail must be shown.

<b>EA1400 GAS FACTORY JUNCTION TO BOW JUNCTION</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<b>Gas Factory Junction</b>	-	-		<i>To/from Fenchurch St – EA1380</i>
<b>Bow Junction</b>	-	-		<i>To/from Stratford – EA1010</i>

**EA1410 UPMINSTER TO WEST THURROCK JUNCTION**

TIMING POINT	DOWN	UP	CODE	NOTES
<u>Upminster</u>	-	-		Platform detail (1A) must be shown for trains to/from Bay Platform and also for trains which use other than normal routes <i>To/from Barking – EA1380</i>
<u>Ockendon</u>	-	-		Platform detail must be shown for trains which use other than normal routes
Chafford Hundred	-	-	S	
<u>West Thurrock Junction</u>	RVL	-		<i>To/from Grays – EA1390.</i> Line code RVL to be shown for Down trains using Third Line

**EA1420 THAMES HAVEN JUNCTION TO LONDON GATEWAY PORT / THAMES HAVEN SIDINGS**

TIMING POINT	DOWN	UP	CODE	NOTES
<u>Thames Haven Junction</u>	-	-		<i>To/from Grays – EA1390</i>
<u>Upminster IECC controlled Signal UR882</u>		-		(Tiploc - THMS882) Due to ARS requirements this is a mandatory timing point in the Up Direction. Trains which require pathing time approaching Thames Haven Junction to be shown with Arr/Dep (A* in Activity Field)
<u>London Gateway Port controlled Signal LG11</u>	-			(Tiploc - THMSL11) Network Rail/DP World London Gateway Port boundary entry signal
<u>Upminster IECC controlled Signal UR888</u>		-		(Tiploc - THMS888) Network Rail/DP World London Gateway Port boundary exit signal
<u>Up &amp; Dn Thames Haven Branch Signal LG15</u>	-			(Tiploc - THMSL15)
<u>Up &amp; Dn Thames Haven Branch Signal LG14</u>		-		(Tiploc - THMSL14)
<u>London Gateway Port Arrival Line Stop Board</u>	-			(Tiploc - THMSLGA)
<u>London Gateway Port Departure Line</u>		-		(Tiploc - THMSLGD)
<u>London Gateway Port</u>	-	-		(Tiploc - THMSDBS, THMSFLI or THMSLGB dependent on traffic)
<u>Thames Haven TC</u>	-	-		Marcroft and Petroplus Sidings

**EA1430 EAST SUFFOLK JUNCTION TO OULTON BROAD NORTH**

TIMING POINT	DOWN	UP	CODE	NOTES
<u>East Suffolk Junction</u>	-	-		<i>To/from Ipswich – EA1012</i>
Ipswich Signal CO348		-	S	Timing point for trains to be held for regulating purposes approaching East Suffolk Junction
<u>Boss Hall Junction</u>	-	-		<i>To/from Europa Junction via Bacon Factory Curve EA1744</i>
<u>Westerfield</u>	-	-		
<i>Westerfield Junction</i>				<i>To/from Felixstowe – EA1440</i>
<u>Woodbridge</u>	-	-		
<u>Melton</u>	-	-		
Wickham Market	-	-	S	Single line
Saxmundham Signal ES2029	-		S	Timing point for reversal moves
<u>Saxmundham</u>	-	-		Platform details must be shown

<b>EA1430 EAST SUFFOLK JUNCTION TO OULTON BROAD NORTH</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
Saxmundham Tamper Siding		-	S	
Saxmundham Junction	-	-	X	Timing point for trains to and from Leiston and Sizewell <i>To/from Sizewell – EA1520</i>
<b>Darsham</b>	-	-		
<b>Halesworth</b>	-	-		
Brampton	-	-	S	Single line
<b>Beccles</b>	-	-		Passing Loop. Platform details must be shown
Oulton Broad South	-	-	S	Single line
<b>Oulton Broad North Junction</b>	-	-		<i>To/from Lowestoft – EA1470</i>

<b>EA1440 WESTERFIELD JUNCTION TO FELIXSTOWE TOWN</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<i>Westerfield Junction</i>	-	-		Single line. <i>To/from Westerfield – EA1430</i>
<b>Derby Road</b>	-	-		Platform detail must be shown
<b>Levington Signal FW9017</b>	-			Intermediate Signal. Timing point for Down direction services Tiploc – DERB017
<b>Levington Signal FW9018</b>		-		Intermediate Signal. Timing point for Up direction services Tiploc – DERB018
<b>Levington Signal FW9023</b>	-			Intermediate Signal. Timing point for Down direction services Tiploc – TRIM023
<b>Levington Signal FW9024</b>		-		Intermediate Signal. Timing point for Up direction services Tiploc – TRIM024
<b>Gun Lane Junction</b>	FS TL	-		
Trimley Signal FW9029	FS		S	Timing point for trains booked to stop or reverse at FW9029 Tiploc – TRIM029
Trimley Signal FW9031	TL		S	Timing point for trains booked to stop or reverse at FW9031 Tiploc – TRIM031
<b>Trimley</b>	-	FS TL		<i>To/from Felixstowe North and Central Terminals – EA1450</i>
<b>Felixstowe Beach Junction</b>	-	-		<i>To/from Felixstowe Beach – EA1460</i>
<b>Felixstowe Town</b>	-	-		

<b>EA1450 TRIMLEY TO FELIXSTOWE NORTH AND CENTRAL TERMINALS</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<u>Trimley</u>	-	FS TL		<i>To/from Westerfield Junction – EA1440. Network Rail Boundary at 00m 73ch</i>
<b>North Quay Branch Signal NQ2</b>	-			Tiploc – FLXSNQ2
<b>North Quay Branch Signal FW9074</b>		-		Tiploc – FLXS074
<b>North Quay Branch Signal NQ4</b>	-	-		Tiploc – FLXSNQ4
<b>Oysterbed Road Sidings</b>	-	-		Tiploc - FLXSOYS Arriving trains to be shown with arrival and departure times for North Terminal acceptance purposes. Departing trains from North Terminal can be timed to pass or be shown with arrival and departure times subject to inbound workings
<b>Felixstowe New North Terminal</b>	-	-		Tiplocs - FLXSNEW (Felixstowe North DBC) FLXSNFL (Felixstowe North FLT) FLXSNGB (Felixstowe North GBRF)
<b>Felixstowe Central Terminal (former North)</b>	-	-		Tiplocs - FLXSCDB (Felixstowe Central DBC) FLXSCFL (Felixstowe Central FLT) FLXSCGB (Felixstowe Central GBRF)

<b>EA1460 FELIXSTOWE BEACH JUNCTION TO FELIXSTOWE BEACH</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<u>Felixstowe Beach Junction</u>	-	-		<i>To/from Westerfield Junction – EA1440</i>
<u>Felixstowe Beach</u>	-	-		
<u>Felixstowe Creek R.S.</u>	-	-		Network Rail Boundary
<u>Felixstowe South Quay Freightliner Terminal</u>	-	-		Tiplocs - FLXSSEW (Felixstowe South DBC) FLXSSGB (Felixstowe South GBRF) FLXSSRT (Felixstowe South FL)

<b>EA1470 NORWICH THORPE JUNCTION AND TROWSE SWING BRIDGE TO LOWESTOFT</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<u>Trowse Swing Bridge</u>	-	-		<i>To/from Wensum Junction via Through Siding To/from Trowse Junction – EA1013</i>
<u>Norwich Thorpe Junction</u>	-			See Route EA1013 for Line codes to be used towards Norwich station <i>To/from Norwich – EA1013</i>
Crown Point Depot	-	-	S	
Crown Point Reception Road	-	-	S	
Crown Point Signal CP1494		-	S	
<i>Wensum Junction</i>				<i>To/from Trowse Swing Bridge via Through Siding</i>
Crown Point Signal CP1498		-	S	
<u>Whitlingham Junction</u>	-	-		<i>To/from Cromer – EA1480</i>
Brundall Gardens	-	-	S	
<b>Brundall</b>	-	-		

**EA1470 NORWICH THORPE JUNCTION AND TROWSE SWING BRIDGE TO LOWESTOFT**

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Brundall Junction</i>				<i>To/from Yarmouth via Acle – EA1500</i>
Buckenham	-	-	S	
<b>Cantley</b>	-	-		
<b>Reedham</b>	-	-		
<i>Reedham Junction</i>				<i>To/from Yarmouth via Berney Arms – EA1510</i>
Haddiscoe	-	-	S	
<b>Somerleyton</b>	-	-		
Oulton Broad North	-	-	S	
<b>Oulton Broad North Junction</b>	-	-		<i>To/from Westerfield Junction – EA1430</i>
<b>Coke Ovens Junction</b>	UL DL -	-		
Lowestoft Reception	-	-	F	
<b>Lowestoft</b>		UL		Platform detail must be shown

**EA1480 WHITLINGHAM JUNCTION TO CROMER**

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Whitlingham Junction</b>	-	-		<i>To/from Norwich – EA1470</i>
Salhouse	-	-	S	
<b>Hoveton &amp; Wroxham</b>	-	-		Single line
Worstead	-	-	S	
North Walsham Shell U.K.	-	-	F	
<b>North Walsham</b>	-	-		
Gunton	-	-	S	
Roughton Road	-	-	S	
<i>Cromer Junction</i>				<i>To/from Sheringham – EA1490</i>
<b>Cromer</b>	-	-		Platform details must be shown

**EA1490 CROMER TO SHERINGHAM**

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Cromer</b>	-	-		Platform detail must be shown
<i>Cromer Junction</i>				Single line. <i>To/from Whitlingham Junction – EA1480</i>
West Runton	-	-	S	
<b>Sheringham</b>	-	-		

A through route is available between Route EA1490 and the North Norfolk Railway (Heritage Railway)

**EA1500 BRUNDALL JUNCTION TO YARMOUTH**

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Brundall Junction</i>				Single line. <i>To/from Norwich – EA1470</i>
Lingwood	-	-	S	
<b>Acle</b>	-	-		
Yarmouth C.H.S.	-	-		
<b>Great Yarmouth</b>	-	-		Platform detail must be shown

**EA1510 REEDHAM JUNCTION TO YARMOUTH**

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Reedham Junction</i>				Single line. <i>To/from Norwich – EA1470</i>
Reedham Junction Signal YL8462		-	S	
Berney Arms	-	-	S	
<b>Great Yarmouth</b>	-	-		Platform detail must be shown

**EA1520 SAXMUNDHAM JUNCTION TO SIZEWELL**

TIMING POINT	DOWN	UP	CODE	NOTES
Saxmundham Junction	-	-	X	Single line. Timing point for trains to and from Leiston and Sizewell <i>To/from Saxmundham – EA1430</i>
Sizewell CEGB	-	-	F	

**EA1530 COLDHAM LANE JUNCTION TO HAUGHLEY JUNCTION**

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Coldham Lane Jn</b>	-	-		<i>To/from Cambridge – EA1161</i>
<b>Dullingham</b>	-	-		Platform detail must be shown
Newmarket	-	-	S	
<b>Chippenham Jn</b>	-	-		<i>To/from Ely Dock Jn – EA1540</i>
<b>Kennett</b>	-	-		
Kennett Ground Frame	-		F	Access from Down Bury only
Kennett Redland Siding	-	-	F	Only trains using Redland Sidings
Bury St Edmunds Down Goods Loop	-		S	
Bury St Edmunds Recp	-	-	F	
Bury St Edmunds Sig BY19	-		S	Reversing trains only
<b>Bury St Edmunds</b>	-	-		Platform detail must be shown
Thurston	-	-	S	
Elmswell	-	-	S	
<b>Haughley Jn</b>	-	-		<i>To/from Stowmarket – EA1012</i>

**EA1540 CHIPPENHAM JUNCTION TO ELY DOCK JUNCTION**

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Chippenham Junction</b>	-	-		<i>To/from Haughley Junction – EA1530</i>
Snailwell Ground Frame Signal 1182	-	-	S	Timing point for trains from Ely direction propelling into Snailwell Sidings
Snailwell Siding	-	-	F	Access from Up Ely only
Soham Junction Signal CA491	-		S	
<b>Soham</b>	-	-		Single line
<b>Ely Dock Junction</b>	-	-		Single line. <i>To/from Ely – EA1161</i>

<b>EA1550 ELY NORTH JUNCTION TO ELY WEST JUNCTION (ELY WEST CURVE)</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<u>Ely North Junction</u>	EWC	-		To/from King's Lynn – EA1162 From Peterborough – EA1560 To/from Norwich – EA1580
<u>Ely West Junction</u>	-	EWC		To/from Peterborough – EA1560

<b>EA1560 ELY NORTH JUNCTION TO KINGS DYKE (INCLUSIVE)</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<u>Ely North Junction</u>	-	UL DL EWC		Line code must be shown To/from Ely – EA1161 To Ely West Junction via Ely West Curve – EA1550
Ely West Junction	-	EWC DL	X	To/from Ely North Junction via Ely West Curve – EA1550
<b>Third Drove Signal CA923</b>	-			Timing point for all trains in the Down direction
<b>Manea Signal CA924</b>		-		Timing point for all trains in the Up direction
<b>Manea Signal M43</b>	-			Timing point for all trains in the Down direction
<b>Manea</b>	-	-		
<b>Stonea</b>	-	-		
<b>March South Signal MS933</b>	-			Timing point for all trains in the Down direction
<b>March South Signal MS934</b>		-		Timing point for all trains in the Up direction
March South	-		S	Used for trains reversing at Signal MS32
March Down R.S.	-	-	F	Tiploc – MRCHDRG
March Down Yard	-	-	S	Tiploc – MARCHDS
March Up R.S.	-	-	F	Tiploc – MARCHUS
March Up Yard		-	S	Tiplocs – MARCHUG, MARCUC
<b>March</b>	-	-		Platform detail must be shown
<i>March East Junction</i>				To/from Wisbech/Whitemoor Yard – EA1570
<b>March West Junction</b>	-	-		To/from Wisbech/Whitemoor Yard – EA1570
<b>Three Horse Shoes</b>	-	-		
<b>Eastrea Signal W6</b>		-		Timing point for all trains in the Up direction
<b>Eastrea Signal THS27</b>	-			Timing point for all trains in the Down direction
<b>Whittlesea</b>	-	-		
<b>King's Dyke</b>	-	-		To/from Peterborough – Refer to LNE Timetable Planning Rules – LN135
<i>Anglia/London North Eastern Route Boundary</i>				98 miles 40 chains

<b>EA1570 MARCH EAST &amp; WEST JUNCTIONS TO WISBECH</b>				
TIMING POINT	DOWN	UP	CODE	NOTES
<i>March East Junction</i>				To/from March – EA1560
<b>March West Junction</b>	-	-		To/from Peterborough – EA1560
<b>Whitemoor Junction</b>	-	-		Single line
Whitemoor Yard			F	
<b>Wisbech East</b>	-	-		This route is currently out of use

<b>EA1580 ELY NORTH JUNCTION TO TROWSE JUNCTION</b>				
<b>TIMING POINT</b>	<b>DOWN</b>	<b>UP</b>	<b>CODE</b>	<b>NOTES</b>
<b><u>Ely North Junction</u></b>	-	UL DL EWC		Line code must be shown <i>To/from Ely – EA1161</i> <i>To/from Ely West Junction – EA1550</i>
Shippea Hill	-	-	S	
Lakenheath	-	-	S	
Brandon Signal EN8063	-		S	Tiploc BNDO063 Timing point for reversal moves
<b><u>Brandon</u></b>	-	-		
Brandon Down Sidings	-	-	F	
Brandon Down Goods Loop	-	-	F	
Brandon Signal EN8084		-	S	Tiploc BNDO084 Timing point for reversal moves
<b><u>Thetford</u></b>	-	-		
Harling Road	-	-	S	
Eccles Road Johnston's Sdg	-	-	F	
Eccles Road	-	-	S	
<b><u>Attleborough</u></b>	-	-		
Spooner Row	-	-	S	
Wymondham Sidings (Down Sidings)	-		F	TIPLOC WYMONDS
Wymondham Signal EN8223	-		S	Tiploc WYMN32 To be used for reversal moves
Wymondham Up Siding		-	F	TIPLOC WYMNDLA
<b><u>Wymondham</u></b>	-	-		
<b><u>CO877 Signal</u></b>	-			Down trains only
<b><u>CO878 Signal</u></b>		-		Up trains only
Trowse GPL CO1749	-		S	Timing point to be used for reversal moves
<b><u>Trowse Junction</u></b>	-	-		<i>To/from Norwich – EA1013</i>

<b>EA1744 BOSS HALL JUNCTION TO EUROPA JUNCTION – BACON FACTORY CURVE</b>				
<b>TIMING POINT</b>	<b>DOWN</b>	<b>UP</b>	<b>CODE</b>	<b>NOTES</b>
<b><u>Boss Hall Junction</u></b>	-	-		<i>To/from Oulton Broad North – EA1430.</i> Tiploc - IPSWBHJ
Ipswich Signal CO352		-	S	Tiploc – IPSW352 All trains on the Up Chord which dwell for pathing time to be shown with Arr/Dep times
Ipswich Signal CO351	-		S	Tiploc – IPSW351 All trains on the Down Chord which dwell for pathing time to be shown with Arr/Dep times
<b><u>Europa Junction</u></b>	-	-		<i>To/from Trowse Junction – EA1012</i> Tiploc – IPSWEPJ

## 2.2 Route Opening Hours

Subject to constraints imposed by the Engineering Access Statement all routes are open continuously, except as shown below. The hours shown reflect the contractual opening hours. The actual opening hours may vary from those shown.

For a complete listing of current signal box opening hours please refer to the 'Compendium of Signal Box Opening Hours' which can be found on the Network Rail website - <https://www.networkrail.co.uk/industry-and-commercial/information-for-operators/>. If there is doubt about a signal box's opening hours check with the appropriate Network Rail Operations Manager.

When the routes shown are required for services diverted under the Engineering Access Statement, opening hours will be increased as necessary on a temporary basis.

Signal boxes equipped to be switched-out during a route's opening hours are shown within the routes concerned.

PLT denotes passage of last train.

<b>EA1360 DUDDING HILL JUNCTION TO ACTON WELLS JUNCTION</b>			
<b>ROUTE SECTION</b>	<b>SX</b>	<b>SO</b>	<b>SUN</b>
Dudding Hill Junction to Acton Wells Junction	Continuous	Continuous	00.00 – 07.00 and 22.00 to 24.00
<b>SIGNAL BOX WHICH CAN BE SWITCHED OUT</b>			
Neasden Junction *	05.00 – 21.00	05.00 – 13.00	Closed
* Equipped to be switched out but when Neasden Junction SB is closed the route between Neasden Junction and Neasden South Junction is closed			

## 3 Electrification

### 3.1 Electrification Supply Restrictions

Under normal conditions, the electrification power supplies will not place any restrictions on the use of approved electric traction. However, the Route Clearance sections of the Sectional Appendix to the Working Timetables, issued by, Network Rail do tabulate restrictions on the movement of electric trains. Refer to Table A and select Route Clearance.

Under maintenance conditions, certain sections of the electrified network may be blocked to electric traction. These restrictions are contained within the Network Rail Engineering Access Statement for the appropriate year. Additional restrictions may also arise in connection with engineering possessions requested through the Engineering Access Statement amendment procedure.

Each section of the electrified network has a finite electrical power supply capability. Intensive use over some sections of route may result in the system being overloaded. In the event of out-of-course running it may be necessary to regulate electric traction train paths to facilitate reliable traction power availability.

Due to power supply restrictions, Class 810 units are not permitted to run in electric mode on Anglia Route without specific permission from the E & P Route Engineer.

Due to the capacity of the current feeding arrangement in the Barking area, between 0600-1000 each day no more than two electric freight trains can be planned within any 60-minute interval. This restriction applies to the section(s) bounded by neutral sections (OHNS) at the following locations:

EA1380: 8m 56ch (Barking) to 15m 69ch (Upminster)  
EA1390: 7m 79ch (Barking) to 21m 07ch (Tilbury Town)

For planning purposes the restriction applies on EA1380 between Barking and Upminster (inclusive), and between Barking and Tilbury Town (exclusive) on EA1390.

## 4 Rolling Stock Restrictions

### 4.1 Locomotive Route Availability

The route availability of Locomotives is contained in the Sectional Appendix to the Working Timetable. It can be accessed by line of route then using the 'Route Clearance' tab. The following tables are shown

Table D4A – Route Clearance of Diesel Locomotives Classes 8 to 47/0,2 & 3  
Table D4B - Route Clearance of Diesel Locomotives Classes 47/4 to 70 and MPV  
Table 4C - Route Clearance of Electric Locomotives

### 4.2 Passenger Stock Restrictions

See the applicable Route Clearance table for the given location in Sectional Appendix to the Working Timetables, issued by Network Rail. Refer to Table A, and select Route Clearance.

### 4.3 Freight Wagon Restrictions

See the applicable Route Clearance table for the given location in Sectional Appendix to the Working Timetables, issued by Network Rail. The Route Availability for a given location is in the 'Signalling and Remarks' column of Table A.

The route availability of Freight Containers and Swap Bodies is also contained in the Sectional Appendix to the Working Timetable.

The following table is shown

Table D5 – Route clearance of Freight Containers/Swap Bodies

Trains conveying vehicles that have a heavy axle weight or other exceptional characteristics, or vehicles conveying containers or swap bodies require an RT3973 form.

*Note: The Rule Book GERT8000 Section TW4 of defines a container as an intermodal transport unit constructed to a standard (usually specified by the ISO) suitable for conveyance by road, rail or sea.*

*Note: The Sectional Appendix does not cover the CTRL HS1. The CTRL has its own Working Manual.*

### 4.4 Freight Train Load Limits

Trailing load limits for all traction types are contained in the Freight Loads Book published by Network Rail.

*Note: It is important to understand the weight limitations that apply to trains especially over sections of heavily graded routes. Coupling strength information is also contained in the Freight Loads Book. Coupling strength is important in determining the trailing loads that trains can convey.*

### 4.5 Freight Train Length Limits

Refer to the Freight Train Loads Book published by Network Rail for the length limits of freight trains and also to Section 5.3 of this publication.

*Note: The Sectional Appendix quotes loop lengths in metres and feet. These are the absolute lengths of the loop from the signal at the outlet to the fouling point at the entrance to the loop.*

## 4.6 Engineers Trains Restrictions

Some On Track Machines (OTMs) do not reliably activate track circuits. These OTMs must use one of the following special reporting numbers 6Z09, 7Z09 or 8Z09\*. Because these OTMs do not reliably activate track circuits it is not possible to apply the headways and junction margins as outlined in the Timetable Planning Rules consistently and it is therefore not possible for Operational Planning to provide timings for these movements.

\* Source GE/RT 8000-OTM

## 4.7 Driver Only Operation Limits

Driver only operation (DOO) of passenger trains is permitted within the East Anglia Region as listed. Driver only operation of non-passenger trains – DOO (NP) – is, however, permitted on all routes.

When special trains are required to run DOO (NP) over the following routes, it must be ascertained that competent staff are available to deal with these trains at the forwarding and receiving terminals, yards, sidings etc., or where locomotive changes take place en route. Furthermore, signal boxes are to be advised of these additional DOO (NP) services, with particular reference to Empty Coaching Stock (ECS) trains.

In the table below, the following abbreviations apply:

Pass – Passenger trains with power operated sliding doors

ECS Slam – Empty Coaching Stock with slam doors

ECS Slide – Empty Coaching Stock with power operated sliding doors

NA – Not authorised

P – Permitted

# - Permitted for short notice movements when all other DOO (NP) conditions are fulfilled and all doors are locked before departure. Authorisation must be obtained from Network Rail Operations Control before this can be applied.

### EA1010 LIVERPOOL STREET TO SEVEN KINGS

ROUTE SECTION	PASS	ECS SLIDE
Liverpool Street to Seven Kings	P (not 745)	P

### EA1011 SEVEN KINGS TO IPSWICH

ROUTE SECTION	PASS	ECS SLIDE
Seven Kings (excl) to Colchester	P (not 745)	P
Colchester (excl) to Ipswich	P (not 745 or 12 car 321)	P

### EA1040 ROMFORD TO UPMINSTER

ROUTE SECTION	PASS	ECS SLIDE
Romford to Upminster	P	P

### EA1050 SHENFIELD JUNCTION TO SOUTHEND VICTORIA

ROUTE SECTION	PASS	ECS SLIDE
Shenfield Junction to Southend Victoria	P	P

<b>EA1060 WICKFORD JUNCTION TO SOUTHMINSTER</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Wickford Junction to Southminster	P (not 12 car 321)	P

<b>EA1070 WITHAM JUNCTION TO BRAINTREE</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Witham Junction to Braintree	P (not 12 car 321)	P

<b>EA1090 COLCHESTER JUNCTION TO CLACTON-ON-SEA</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Colchester Junction to East Gate Junction	P (not 8/12 car 321)	P

<b>EA1100 EAST GATE JUNCTION &amp; HYTHE JUNCTION TO COLCHESTER TOWN</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
East Gate Junction to Colchester Town	P (not 8/12 car 321)	P

<b>EA1150 CHANNELSEA SOUTH JUNCTION TO STRATFORD CENTRAL JUNCTION WEST</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Channelsea South Junction to Stratford Central Junction West	P	P

<b>EA1160 BETHNAL GREEN EAST JUNCTION TO BISHOP'S STORTFORD</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Bethnal Green East Junction to Bishop's Stortford	P	P

<b>EA1161 BISHOP'S STORTFORD TO ELY NORTH JUNCTION</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Bishop's Stortford (excl) to Ely North Junction	P	P

<b>EA1162 ELY NORTH JUNCTION TO KING'S LYNN</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Ely North Junction (excl) to King's Lynn	P	P

<b>EA1170 HACKNEY DOWNS NORTH JUNCTION TO ENFIELD TOWN</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Hackney Downs North Junction to Enfield Town	P	P

<b>EA1190 BURY STREET JUNCTION TO CHESHUNT JUNCTION</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Bury Street Junction to Cheshunt Junction	P	P

<b>EA1200 CLAPTON JUNCTION TO CHINGFORD</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Clapton Junction to Chingford	P	P

<b>EA1210 BROXBOURNE JUNCTION TO HERTFORD EAST</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Broxbourne Junction to Hertford East	P	P

<b>EA1220 STANSTED SOUTH &amp; NORTH JUNCTIONS TO STANSTED AIRPORT</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Stansted Junctions to Stansted Airport	P	P

<b>EA1230 ROYSTON TO SHEPRETH BRANCH JUNCTION</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Royston to Shepreth Branch Junction	P	P

<b>EA1280 STRATFORD CENTRAL JUNCTION TO COPPERMILL JUNCTION</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Stratford Central Junction to Coppermill Junction	P	P

<b>EA1290 TOTTENHAM SOUTH JUNCTION TO SOUTH TOTTENHAM EAST JUNCTION</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Tottenham South Junction to South Tottenham East Junction	P	P

<b>EA1300 SOUTH TOTTENHAM WEST JUNCTION TO SEVEN SISTERS JUNCTION</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
South Tottenham West Junction to Seven Sisters Junction	P	P

<b>EA1310 CAMDEN ROAD WEST JUNCTION TO RICHMOND</b>		
<b>ROUTE SECTION</b>	<b>PASS</b>	<b>ECS SLIDE</b>
Camden Road West Junction to Richmond	P	P

**EA1320 CAMDEN ROAD WEST JUNCTION TO STRATFORD PLATFORMS 1 AND 2**

ROUTE SECTION	PASS	ECS SLIDE
Camden Road Junction to Stratford	P	P

**EA1350 CHANNELSEA NORTH JUNCTION TO TEMPLE MILLS EAST JUNCTION**

ROUTE SECTION	PASS	ECS SLIDE
Channelsea North Junction to Temple Mills East Junction	P	P

**EA1370 GOSPEL OAK JUNCTION TO BARKING TILBURY LINE JUNCTION WEST**

ROUTE SECTION	PASS	ECS SLIDE
Gospel Oak Junction to Barking Tilbury Line Junction West	P	P

**EA1380 FENCHURCH STREET TO SHOEBURYNNESS**

ROUTE SECTION	PASS	ECS SLIDE
Fenchurch Street to Shoeburyness	P	P

**EA1390 BARKING TILBURY LINE JUNCTION EAST TO PITSEA JUNCTION (VIA TILBURY)**

ROUTE SECTION	PASS	ECS SLIDE
Barking Tilbury Line Junction East to Pitsea Junction (Via Tilbury)	P	P

**EA1400 GAS FACTORY JUNCTION TO BOW JUNCTION**

ROUTE SECTION	PASS	ECS SLIDE
Gas Factory Junction to Bow Junction	P	P

**EA1410 UPMINSTER TO WEST THURROCK JUNCTION**

ROUTE SECTION	PASS	ECS SLIDE
Upminster to West Thurrock Junction	P	P

## 5 Running Times, Margins and Allowances

Except where otherwise stated, the information in this section of the Timetable Planning Rules reflects the general rules used in developing the 1994/5 timetable (Several exceptions to the general rules were agreed for 1994/5 and exceptions may continue to be possible with the specific agreement of Network Rail in every case).

### 5.1 Sectional Running Times

The definition for Sectional Running Times (SRTs) is listed in Section 6.4 of the National TPRs.

#### 5.1.1 Source of Current SRTs

The definitive catalogue of SRTs is BPlan.

#### 5.1.2 Method of Calculation

SRTs are revised by Train Operators and Network Rail as part of the Revision of Timetable Planning Rules process outlined in Network Code Part D 2.2. Normally they will not change from one timetable to the next. Network Rail will, however, re-calculate SRTs for particular train/route combinations in the following circumstances:

- i) Where a Train Operator anticipates using a train/route combination for which no suitable SRTs exist;
- ii) Where Network Rail anticipates a change to route data, e.g. line speed changes;
- iii) Where there is evidence that the SRTs in current use do not adequately represent real train performance;
- iv) Where it is cost-effective to re-calculate all SRTs on a route at the same time as a re-calculation for a particular train type.

Network Rail will reflect the methodology and assumptions described in Section 6 of the National TPRs when calculating TPR proposals, unless and to the extent documented otherwise in respect of any given proposal. Timetable participants are encouraged to submit change proposals for review and consultation in line with the national methodology, or in line with such alternative methodology and assumptions as favoured by the proposer. NR will not seek to reject any proposal on the exclusive basis of the methodology employed, provided that the methodology and assumptions are clearly stated and demonstrably adhered to in respect of the proposal received.

SRT change proposals may be calculated in a number of ways including, but not limited to:

- a) Through actual timing of trains
- b) Use of On Train Monitoring Recorder (OTMR) systems
- c) Use of computer system actual values
- d) Use of computer simulation tools
- e) By any other agreed methodology

It is permissible to include percentage uplift in SRTs instead of applying engineering recovery allowances to be agreed by all affected parties.

A 5% allowance is included in the calculation of Class 345 SRTs to take account of the lack of explicit engineering allowances in Timetable Planning Rules.

In the event that the application of different methodologies produces conflicting proposals, a joint observation exercise should be undertaken to ascertain what happens in reality.

### **5.1.3 New and Revised Sectional Running Times**

New and revised SRTs are revised by Train Operators and Network Rail on an individual basis. These should be supplied by applying the methodology described in Section 6 of the National TPRs unless another methodology is deemed appropriate, provided that the methodology and assumptions are clearly stated and demonstrably adhered to in respect of the proposal received.

### **5.1.4 Timing of Trains Consisting of Passenger Vehicles on Goods Lines**

The sectional running timings quoted for trains consisting of passenger vehicles on Goods Lines reflect the speeds shown in the relevant Table 'A' of the appropriate Sectional Appendix. They do not constitute an authority to time trains conveying passengers on a Goods Lines. Nor do they reflect the permitted speeds at which a train conveying passengers can proceed. Network Rail will offer the sectional running times for trains conveying passengers on a Goods Line on a train-by-train basis. For those times please apply to the Operational Planning Department.

Operations Publications publish the authority to allow the planned operation of trains conveying passengers on Goods Lines. Before Operations Publications can grant authority, they require confirmation that the track is fit for purpose and that there is a safe method of operation. Therefore, the Operational Planning Department must apply to the relevant Track Engineer and Operations Manager for confirmation of these requirements in writing. The Operational Planning Department must pass these responses to Operations Publications. The Operational Planning Department is responsible for advising Operations Publications of the requirement to operate a passenger train on a Goods Line at least 8 weeks before the day of operation.

## 5.2 Headways

The definition for Headways is listed in Section 6.5 of the National TPRs.

### 5.2.1 Headway Values

All times are in minutes. All routes are shown.

Where track circuit block (TCB) signalling applies, the standard headways for each route are shown, together with any exceptions.

AB indicates locations where absolute block signalling applies. Here the headway is to be calculated from the transit time of the first of each pair of trains running between the stated timing points. A value “x” shall be added to the transit time to allow for the signaller’s actions and sighting of the relevant signal. The planning headway is shown as “AB+x”.

AB methodology may also be used to express the headway in other areas (e.g. TCB), the value “x” including the time taken to reset the route, clear the signal on entry to the section and sight the relevant signal.

Single lines and other forms of signalling are shown, together with any values applicable, where they occur. “OTNS” or “OT” indicates One Train Working with No Train Staff; “OTS” or “OT(S)” indicates one train working with Train Staff. “NST” indicates No Signaller token. In these cases only one train is allowed in the section at one time; a second train cannot be allowed to enter the section until the first train has left the section. “ETB” indicates Electric Token Block and “TB” indicates Tokenless Block for single lines. “RB” indicates Radio Signalling where “long section tokens” can be issued between certain block posts during times of low traffic volume.

Light Engine movements to be treated as passenger trains when applying margins/allowances where there is a freight/passenger difference.

Headways in Anglia are applied on depart to arrive methodology.

<b>EA1010 LIVERPOOL STREET TO SEVEN KINGS</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Liverpool Street to Stratford	2	2	
Stratford to Forest Gate Junction	2*	2*	*3 following freight
Forest Gate Junction to Seven Kings	2	2	

<b>EA1011 SEVEN KINGS TO IPSWICH</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Seven Kings to Shenfield	2	2	ML and EL
Shenfield to Ipswich	3	3	

<b>EA1012 IPSWICH TO TROWSE JUNCTION</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Ipswich to Trowse Junction	4	4	

<b>EA1013 TROWSE JUNCTION TO NORWICH</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Trowse Junction to Norwich	3	3	

**EA1020 CARPENTERS ROAD SOUTH JUNCTION TO CARPENTERS ROAD NORTH JUNCTION**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Carpenters Rd South Junction to Carpenters Rd North Junction	AB+2 Single Line		TCB plan as AB. One train in section.
<b>Restrictions</b>			
Up train to Carpenters Road South Junction may not pass Channelsea Junction until the preceding Up train on the Temple Mills lines has arrived at or passed Bow Junction			
Down train to Channelsea Junction may not pass Carpenters Road South Junction until the preceding train on the Up Channelsea Loop (route code AL) has passed Channelsea Junction			

**EA1030 FOREST GATE JUNCTION TO WOODGRANGE PARK JUNCTION**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Forest Gate Junction to Woodgrange Park Junction	3	3	

**EA1040 ROMFORD TO UPMINSTER**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Romford to Upminster	Single Line		One train in section

**EA1050 SHENFIELD JUNCTION TO SOUTHEND VICTORIA**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Shenfield Junction to Southend Victoria	3	3	

**EA1060 WICKFORD JUNCTION TO SOUTHMINSTER**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Wickford Junction to North Fambridge (excl)	AB+1 Single Line		TCB plan as AB. One train in section
North Fambridge (excl) to Southminster	AB+1 Single Line		TCB plan as AB. One train in section

**EA1070 WITHAM JUNCTION TO BRAINTREE**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Witham to Braintree	Single Line		One train in section

**EA1080 MARKS TEY JUNCTION TO SUDBURY**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Marks Tey to Sudbury	Single Line		One train in section

**EA1090 COLCHESTER TO CLACTON-ON-SEA**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Colchester Junction to Clacton-on-Sea	4	4	

**EA1100 EAST GATE JUNCTION & HYTHE JUNCTION TO COLCHESTER TOWN**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
East Gate Junction & Hythe Junction to Colchester Town	4	4	Single Line from Colne Junction to/from Colchester Town. One train in section

<b>EA1110 THORPE-LE-SOKEN JUNCTION TO WALTON-ON-THE-NAZE</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Thorpe-le-Soken to Kirby Cross (excl)	AB+1 Single Line		TCB plan as AB. One train in section.
Kirby Cross (excl) to Walton-on-the-Naze	AB+1 Single Line		TCB plan as AB. One train in section.

<b>EA1120 MANNINGTREE NORTH &amp; SOUTH JUNCTIONS TO HARWICH TOWN</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Manningtree to Harwich International Port	4	4	
Harwich International Port (excl) to Harwich Town	Single Line		One train in section

<b>EA1130 GRIFFIN WHARF BRANCH</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Halifax Junction to Griffin Wharf	Single Line		One train in section

<b>EA1140 IPSWICH DOCKS BRANCH</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Ipswich Goods Junction to Ipswich Lower Yard	Single Line		One train in section

<b>EA1150 CHANNELSEA SOUTH JUNCTION TO STRATFORD CENTRAL JUNCTION WEST</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Channelsea South Junction to Stratford Central Junction West	3	3	

<b>EA1160 BETHNAL GREEN EAST JUNCTION TO BISHOP'S STORTFORD</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Bethnal Green to Clapton Jn	2	2	If there are two consecutive headways of 2 minutes, the third consecutive headway must be a minimum of 2½ minutes.
Clapton Junction to Bishop's Stortford	3*	3*	Headway on Cambridge lines Not applicable to Lea Valley Reversible line * Trains may be planned to arrive/depart looped platforms at Broxbourne and Harlow Town with headway of 2 minutes if in front/following a non-stopping service

<b>EA1161 BISHOP'S STORTFORD TO ELY NORTH JUNCTION</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Bishop's Stortford (inclusive) to Ely North Junction (inclusive)	3 3*	3	* exceptions: <ul style="list-style-type: none"> <li>• 4 at Ely following freight</li> <li>• 6 at Ely North Jn for successive trains towards Peterborough line where first train is freight</li> </ul>

<b>EA1162 ELY NORTH JUNCTION TO KING'S LYNN</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Ely North Junction (excl) to Littleport	6*	6	* 4 minutes at Ely North Junction if second train is from Ely West Curve
Littleport (excl) to Downham Market (excl)	AB+2^		Single line. TCB plan as AB. ^ Where the second train is a departure, the headway may be reduced to AB+0
Downham Market to Watlington	7	7	
Watlington (excl) to King's Lynn Signal KL45	AB+2^		Single line. TCB plan as AB. ^ Where the second train is a departure, the headway may be reduced to AB+0
King's Lynn Signal KL45 to King's Lynn Junction	AB+2		Single line. TCB plan as AB.
King's Lynn Junction to King's Lynn Signal KL36		AB+1 AB+2	Single line. TCB plan as AB. Following passenger Following freight
King's Lynn Signal KL36 to Watlington (excl)		AB+1 AB+2	Single line. TCB plan as AB. Following passenger Following freight

<b>EA1170 HACKNEY DOWNS NORTH JUNCTION TO ENFIELD TOWN</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Hackney Downs North Junction to Enfield Town	3	3	

<b>EA1180 READING LANE JUNCTION TO NAVARINO ROAD JUNCTION (GRAHAM ROAD CURVE)</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Reading Lane Junction to Navarino Road Junction	AB+2 Single Line		TCB plan as AB. One train in section.

<b>EA1190 BURY STREET JUNCTION TO CHESHUNT JUNCTION</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Bury Street Junction to Cheshunt Junction/Bay Platform	3	3	

<b>EA1200 CLAPTON JUNCTION TO CHINGFORD</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Clapton Junction to Walthamstow Central	3	2	
Walthamstow Central to Chingford	3	3	

<b>EA1210 BROXBOURNE JUNCTION TO HERTFORD EAST</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Broxbourne Junction to Hertford East	3½ following non-stop, 5 following stopping	3 following non-stop, 4 following stopping	

<b>EA1220 STANSTED SOUTH &amp; NORTH JUNCTIONS TO STANSTED AIRPORT</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Stansted Mountfitchet to Stansted East Junction	4 following non-stop, 4½ following train having stopped at Stansted Mountfitchet	2 following non-stop, 3½ following train stopping at Stansted Mountfitchet	
Stansted North Junction to Stansted East Junction	AB+1 Single Line		TCB plan as AB. One train in section.
Stansted East Junction to Tye Green Junction	3	2 following non-stop, 3½ following train stopping at Stansted Mountfitchet	
Tye Green Junction to Coopers Lane Junction	AB+1 Single Line		TCB plan as AB. One train in section.
Coopers Lane Junction to Stansted Airport	3	3	

<b>EA1230 ROYSTON TO SHEPRETH BRANCH JUNCTION</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Royston to Shepreth Branch Junction	3	3	

<b>EA1270 KING'S LYNN JUNCTION TO MIDDLETON TOWERS</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
King's Lynn Junction to Middleton Towers	Single Line		One train in section

<b>EA1280 STRATFORD CENTRAL JUNCTION TO COPPERMILL JUNCTION</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Stratford Central Junction to Coppermill Junction	3	3	Headway on Temple Mills lines
Lea Bridge to Meridian Water	Single Line		Lea Valley Reversible line One train in section

<b>EA1290 TOTTENHAM SOUTH JUNCTION TO SOUTH TOTTENHAM EAST JUNCTION</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Tottenham South Junction to South Tottenham East Junction	4	4	

<b>EA1300 SOUTH TOTTENHAM WEST JUNCTION TO SEVEN SISTERS JUNCTION</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
South Tottenham West Junction to Seven Sisters Junction	AB+2 Single Line		One train in section

**EA1310 CAMDEN ROAD WEST JUNCTION TO RICHMOND**

TIMING POINTS INCLUDED	FOLLOWING PASSENGER/ECS		FOLLOWING FREIGHT
	STOPPING	NON-STOP	
<b>DOWN DIRECTION (WESTBOUND)</b>			
Camden Road Junction (exc.) to Hampstead Heath	3	3	4
Hampstead Heath to West Hampstead	5	3	4
West Hampstead to Kensal Green Junction	4	2½	4
Kensal Green Junction to Willesden Junction High Level	TCB plan as AB+2	TCB plan as AB+1	TCB plan as AB+2
Willesden Junction High Level to Acton Wells Junction	TCB plan as AB+2	TCB plan as AB+1	TCB plan as AB+2
Acton Wells Junction to South Acton	3*	3*	3*
South Acton to Gunnersbury Junction	3	3	N/A
Gunnersbury Junction to Richmond	2	2	N/A
<b>UP DIRECTION (EASTBOUND)</b>			
Richmond to Gunnersbury Junction	2	2	N/A
Gunnersbury Junction to South Acton	4	4	N/A
South Acton to Acton Wells Junction	4	4	3½
Acton Wells Junction to Willesden Junction High Level	TCB plan as AB+2	TCB plan as AB+1	TCB plan as AB+2
Willesden Junction High Level to Kensal Green Junction	TCB plan as AB+2	TCB plan as AB+1	TCB plan as AB+2
Kensal Green Junction to West Hampstead	3	2½	4
West Hampstead to Hampstead Heath	5	3	4
Hampstead Heath to Camden Road Junction (exc.)	3½	3½	4
<b>Notes</b>			
*A stopping train cannot arrive at Acton Central until 1½ minutes after a preceding passenger train or 2 minutes after a preceding freight train has passed/departed South Acton			

**EA1320 CAMDEN ROAD WEST JUNCTION TO STRATFORD PLATFORMS 1 AND 2**

TIMING POINTS INCLUDED	FOLLOWING PASSENGER/ECS	FOLLOWING FREIGHT
<b>UP DIRECTION (WESTBOUND)</b>		
Channelsea Junction to Navarino Road Junction	3	4
Navarino Road Junction to Camden Road East Junction (exc.)	3	3
Camden Road East Junction (inc.) to Camden Road Junction (inc.)	3*	4
<b>DOWN DIRECTION (EASTBOUND)</b>		
Camden Road Junction (inc.) to Camden Road East Junction (inc.)	3	4
Camden Road East Junction (exc.) to Channelsea Junction	3	3½
<b>Notes</b>		
*Successive trains Westbound towards Gospel Oak must be 4 minutes apart at Camden Road Junction		

**EA1330 SOUTH ACTON JUNCTION TO OLD & NEW KEW JUNCTIONS**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
South Acton to Kew East Junction	AB+2	AB+2	TCB timed as AB
Kew East Junction to New Kew Junction	AB+2	AB+2	TCB timed as AB
Kew East Junction to Old Kew Junction	AB+2	AB+2	TCB timed as AB

**EA1340 STRATFORD LEA JUNCTION TO HIGH MEADS JUNCTION**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Lea Junction to High Meads Junction	4	4	

**EA1350 CHANNELSEA NORTH JUNCTION TO TEMPLE MILLS EAST JUNCTION**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Channelsea North Junction to Temple Mills East Junction	4	4	

**EA1360 DUDDING HILL JUNCTION TO ACTON WELLS JUNCTION**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Dudding Hill Junction to Acton Canal Wharf	AB+2	AB+2	
Acton Canal Wharf to Acton Wells Junction	AB+2	AB+2	

**EA1370 GOSPEL OAK JUNCTION TO BARKING TILBURY LINE JUNCTION WEST**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Gospel Oak to Upper Holloway	3	3	
Upper Holloway to Harringay Park Junction	4 following non-stop 5 following stopping	4 following non-stop 5 following stopping	
Harringay Park Junction to South Tottenham	5	5	
South Tottenham to Leyton Midland Road	6	6	
Leyton Midland Road to Woodgrange Park Junction (exclusive)	5	5	
Woodgrange Park Junction (inclusive) to Barking	3	3	

**EA1380 FENCHURCH STREET TO SHOEBURYNESS**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Fenchurch Street to Barking	2	2	
Barking to Shoeburyness <sup>^</sup>	3*	3*	* Trains maybe planned to arrive/depart platform 2 at Leigh-on-Sea/Laindon and the bay platforms at Southend Central with a headway of 2½ minutes.  * When a train is planned to follow a train to/from Upminster, it may follow with a headway of 2½ minutes.

<sup>^</sup> Simplified Bi-directional Signalling (SIMBIDS) is only available in the direction opposite to the normal direction of travel (known as the wrong direction) if the normal line is unavailable by reason of possession, accident, failure, obstruction or other exceptional incident.

**EA1390 BARKING TILBURY LINE JUNCTION EAST TO PITSEA JUNCTION - VIA TILBURY**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Barking to Dagenham Dock	3	3	
Dagenham Dock to Rainham	3 following non-stop 4 following stopping	3 following non-stop 4 following stopping	
Rainham to Pitsea	3	3	For trains on Purfleet Long Siding please see entry in section 5.3

**EA1395 RIPPLE LANE WEST JUNCTION TO BARKING RIVERSIDE**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Ripple Lane West Junction to Barking Riverside	3	3	

**EA1400 GAS FACTORY JUNCTION TO BOW JUNCTION**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Gas Factory Junction to Bow Junction	AB+1 Single Line		One train in section

**EA1410 UPMINSTER TO WEST THURROCK JUNCTION**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Upminster (excl) to Ockendon (excl)	AB+2 Single Line		Normally operated as one train in Section. If required a second train can enter the single line in the same direction as the previous train when the signal controlling entry to the single line section has cleared
Ockendon (excl) to West Thurrock Junction	AB+2 Single Line		Normally operated as one train in Section. If required a second train can enter the single line in the same direction as the previous train when the signal controlling entry to the single line section has cleared

**EA1420 THAMES HAVEN JUNCTION TO LONDON GATEWAY PORT / THAMES HAVEN SIDINGS**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Thames Haven Junction to London Gateway Port LG11 Signal			Under Upminster IECC control from junction towards Port. LG11 Signal under LG Port Shunters Control. Maximum of three trains permitted
London Gateway Port LG11 Signal to Thames Haven TC (Marcroft/Petroplus) Sidings			Single line. One train in Section. Under control of London Gateway Port and Thames Haven (Marcroft) sidings shunters
London Gateway Port LG11 Signal to London Gateway Arrival Line Stop Board			Single line entry. One train in Section. Under control of London Gateway Port shunters
London Gateway Departure Line to Signal UR888			Single line exit towards UR888 signal. One train in Section. Under control of London Gateway Port shunters release to Upminster IECC
Thames Haven TC (Marcroft/Petroplus) Sidings to Signal UR888			Single line. One train in Section. Under control of London Gateway Port and Thames Haven (Marcroft) sidings shunters release to Upminster IECC.
UR888 signal towards UR882 signal/Thames Haven Junction			Under Upminster IECC control. Maximum two trains permitted

**EA1430 EAST SUFFOLK JUNCTION TO OULTON BROAD NORTH**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
East Suffolk Junction to Westerfield (inclusive)	4	4	
Westerfield (exclusive) to Woodbridge (inclusive)	AB+1	AB+1	One train in section
Woodbridge (exclusive) to Saxmundham	AB+1 Single Line		One train in section
Saxmundham to Halesworth	AB+1	AB+1	One train in section
Halesworth to Beccles (exclusive)	AB+1 Single Line		One train in section
Beccles (exclusive) to Oulton Broad North Junction	AB+1 Single Line		One train in section

<b>EA1440 WESTERFIELD JUNCTION TO FELIXSTOWE TOWN</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Westerfield Junction (excl) to Derby Road (excl)	AB+2 Single Line		One train in section
Derby Road (excl) to Derby Road Signal FW9017	AB+2		TCB time as AB. Single line
Derby Road Signal FW9017 to Levington Signal FW9023	AB+2		TCB time as AB. Single line
Levington Signal FW9023 to Gun Lane Junction	AB+2		TCB time as AB. Single line
Gun Lane Junction to Levington Signal FW9024		AB+2	TCB time as AB. Single line
Levington Signal FW9024 to Derby Road Signal FW9018		AB+2	TCB time as AB. Single line
Derby Road Signal FW9018 to Derby Road (excl)		AB+2	TCB time as AB. Single line
Gun Lane Junction to Trimley	AB+2*	AB+2^	TCB time as AB * Exclusive of dwell at Trimley station ^ Inclusive of dwell at Trimley station
Trimley to Felixstowe Beach Junction	AB+2^	AB+2*	Single line. One train in section * Exclusive of dwell at Trimley station ^ Inclusive of dwell at Trimley station
Felixstowe Beach Junction to Felixstowe Town	Single Line		One train in section

<b>EA1450 TRIMLEY TO FELIXSTOWE NORTH AND CENTRAL TERMINALS</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Trimley to Felixstowe North and Central Terminals	AB+2 Single Line		One train in section

<b>EA1460 FELIXSTOWE BEACH JUNCTION TO FELIXSTOWE BEACH (FOR SOUTH QUAY FREIGHTLINER TERMINAL)</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Felixstowe Beach Junction to Felixstowe Creek R.S. (Felixstowe South Quay Freightliner Terminal boundary)	AB+2 Single Line		One train in section

<b>EA1470 NORWICH THORPE JUNCTION TO LOWESTOFT</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Norwich to Whitlingham Junction	4	4	
Whitlingham Junction to Brundall	AB+1	AB+1	TCB plan as AB
Brundall to Cantley	AB+1	AB+1	TCB plan as AB
Cantley to Reedham Junction	AB+1	AB+1	TCB plan as AB
Reedham Junction to Reedham Swing Bridge	AB+1	AB+1	TCB plan as AB
Reedham Swing Bridge to Somerleyton	AB+1	AB+1	TCB plan as AB

**EA1470 NORWICH THORPE JUNCTION TO LOWESTOFT**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Somerleyton to Oulton Broad North Junction	AB+1*	AB+1	TCB plan as AB *A Norwich-Lowestoft train cannot arrive Oulton Broad North (station) until 2 minutes after an Ipswich-Lowestoft train has passed Coke Ovens Jn
Oulton Broad North Junction to Lowestoft	4	4	

**EA1480 WHITLINGHAM JUNCTION TO CROMER**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Whitlingham Junction to Wroxham	11	11	
Wroxham to North Walsham	12		Single line. No intermediate signal in Down direction
North Walsham to Worstead		5	Single line. Intermediate block signal headway for following moves in up direction
Worstead to Wroxham		7	Single line. Intermediate block signal headway for following moves in up direction
North Walsham to Gunton	7	7	Single line. Intermediate signal
Gunton to Cromer	10	10	Single line. Intermediate signal

**EA1490 CROMER TO SHERINGHAM**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Cromer to Sheringham	Single Line		One train in section

**EA1500 BRUNDALL JUNCTION TO YARMOUTH**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Brundall Junction to Acle (exclusive)	AB+1 Single Line		One train in section
Acle (exclusive) to Yarmouth (exclusive)	AB+1 Single Line		One train in section

**EA1510 REEDHAM JUNCTION TO YARMOUTH**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Reedham Junction to Yarmouth (exclusive)	AB+1 Single Line		One train in section

**EA1520 SAXMUNDHAM TO SIZEWELL**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Saxmundham Junction to Sizewell	Single Line		One train in section

**EA1530 COLDHAM LANE JUNCTION TO HAUGHLEY JUNCTION**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Coldham Lane Junction to Dullingham (exclusive)	AB+1 Single Line		One train in section
Dullingham (exclusive) to Chippenham Junction	AB+1 Single Line		One train in section
Chippenham Junction to Kennett	AB+1	AB+1	TCB plan as AB. One train in section
Kennett to Bury St Edmunds	7	8	
Bury St Edmunds to Haughley Junction	6	6	

**EA1540 CHIPPENHAM JUNCTION TO ELY DOCK JUNCTION**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Chippenham Junction to Soham	8	8	
Soham to Ely Dock Junction	AB+2*	AB+0^	Single line. * Section includes any dwell at Soham station ^ A successive train in the Up direction may enter the section from Ely Dock Junction to Signal CA498 (intermediate block signal) when the preceding train arrives at/passes Soham

**EA1550 ELY NORTH JUNCTION TO ELY WEST JUNCTION (ELY WEST CURVE)**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Ely North Junction to Ely West Junction	AB+2 Single Line		One train in section

**EA1560 ELY NORTH JUNCTION TO KINGS DYKE (INCLUSIVE)**

TIMING POINTS INCLUDED	DOWN	UP	NOTES
<b>DOWN DIRECTION</b>			
Ely North Junction (exclusive) to Third Drove Signal CA923	4		TCB
Third Drove Signal CA923 to Manea Signal M43	AB+1		TCB plan as AB
Manea Signal M43 to Manea	AB+2*		AB *Based on time preceding train departs / passes Manea
Manea to Stonea	AB+2		AB
Stonea to March South Signal MS933	AB+1		TCB plan as AB
March South Signal MS933 to Three Horse Shoes	4		TCB
Three Horse Shoes to Eastrea Signal THS27	AB+2		AB
Eastrea Signal THS27 to Whittlesea	AB+2		AB
Whittlesea to King's Dyke	AB+2		AB

<b>EA1560 ELY NORTH JUNCTION TO KINGS DYKE (INCLUSIVE)</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
<b>UP DIRECTION</b>			
King's Dyke to Whittlesea		AB+2*	AB *Based on time preceding train departs / passes Whittlesea
Whittlesea to Eastrea Signal W6		AB+2	AB
Eastrea Signal W6 to Three Horse Shoes		AB+2	AB
Three Horse Shoes to March South Signal MS934		4	TCB
March South Signal MS934 to Stonea		AB+1	TCB plan as AB
Stonea to Manea		AB+2*	AB *Based on time preceding train departs / passes Manea
Manea to Manea Signal CA924		AB+1	TCB plan as AB
Manea Signal CA924 to Ely North Junction (exclusive)		4	TCB

<b>EA1570 MARCH EAST &amp; WEST JUNCTIONS TO WISBECH</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
March East Junction to Whitemoor Junction		AB+2 Single Line	One train in section
March West Junction to Whitemoor Junction		AB+2 Single Line	One train in section
Whitemoor Junction to Wisbech		Single Line	One train in section

<b>EA1580 ELY NORTH JUNCTION TO TROWSE JUNCTION</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Ely North Junction (excl) to Shippea Hill	AB+1	AB+1	TCB timed as AB
Shippea Hill to Lakenheath	AB+1	AB+1	TCB timed as AB
Lakenheath to Brandon	AB+1	AB+1	TCB timed as AB
Brandon to Thetford	AB+1	AB+1	TCB timed as AB
Thetford to Harling Road	AB+1	AB+1	TCB timed as AB
Harling Road to Eccles Road	AB+1	AB+1	TCB timed as AB
Eccles Road to Attleborough	AB+1	AB+1	TCB timed as AB
Attleborough to Spooner Row	AB+1	AB+1	TCB timed as AB
Spooner Row to Wymondham	AB+1	AB+1	TCB timed as AB
Wymondham to CO877/ CO878 Signal	4½ 5½	4 5½	Following non-stop passenger Following freight or stopping passenger
CO877/CO878 Signal to Trowse Junction (excl)	6 7	5 6	Following passenger Following freight

<b>EA1744 BOSS HALL JUNCTION TO EUROPA JUNCTION – BACON FACTORY CURVE</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Boss Hall Junction to Europa Junction	AB+2	AB+2	TCB plan as AB. One train in section

## 5.2.2 General Capacity Constraints

Where single line working is to operate or trains are to be routed to run on a line other than that normally planned for them, constraints on capacity will apply – see Engineering Access Statement.

## 5.3 Junction Margins and Station Planning Rules

The definition for Junction Margins and Station Planning Rules is listed in Section 6.6 - 6.10 of the National TPRs.

All times shown are in minutes. Where adjustments to sectional running times are shown, the value must be added to the normal SRTs shown in B Plan. Negative adjustments are specially identified.

Minimum station allowances are the minimum practical for the particular type of stock. These are shown with exceptions being listed by line of route where applicable.

Light Engine movements to be treated as passenger trains when applying margins/allowances where there is a freight/passenger difference.

Running brake tests must be carried out at the first opportunity after beginning a journey/crew change. These allowances are not necessarily listed at individual timing points. Additional adjustment time to allow for running brake tests should be agreed between the respective NR and Operator planners.

<b>STANDARD VALUES – MINIMUM</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movements</b>	<b>Reason</b>	<b>Value</b>
Terminating trains arriving on half minutes in final timing link (including those being 'called on' to attach)	IT systems requirements	{½} *
* Exceptions to terminate on ½ minutes may be agreed between NR and the train operator (excluding CrossCountry, Greater Anglia and Freight)		
Midnight Timings: Midnight times cannot be published; therefore positive or negative adjustment should be used to avoid these being shown.		
<b>Attaching/Detaching Minimum Allowance</b>	4 or as specific TOC traincrew agreement	
<b>Attachment of units – for services operated by GTR</b>		
Class 387	6	
<b>Detachment of units – for services operated by GTR</b>		
Class 387	5	
<b>Connectional Allowance</b>	5	
<b>Dwell Time</b>		
Multiple Units	½	
Loco Hauled	1	
Passenger to ECS with no change of direction	1	
Empty Stock to Passenger service same direction	1 minute unless otherwise specified	
Passenger service to Empty Stock same direction (GTR Classes 387 and 700)	4 minutes unless otherwise specified	
Dwell time values apply only to Class 1, 2 and 9 passenger trains		
<b>CrossCountry Class 170 Safety Check Unit (SCU) Allowances – minimum platform standing allowance between passenger train arrival and ecs departure to depot</b>		
1 x 170	5	
2 x 170	10	
<b>CrossCountry Class 170 Safety Check Unit (SCU) Allowances <u>which includes an attachment</u> – minimum platform standing allowance between passenger train arrival and ecs departure to depot</b>		
When the second arrival is 1 x 170	9	
When the second arrival is 2 x 170	14	
<b>Junction Margin</b>		
Standard value	2	
Arrival followed by a conflicting departure from a station	1	
<b>Locomotive Run-Round</b>	20	

**STANDARD VALUES – MINIMUM****Minimum Turnrounds**

up to 4 car EMU/DMU	4 or as specific TOC traincrew agreement
up to 8 car EMU/DMU	6 or as specific TOC traincrew agreement
up to 12 car EMU/DMU	7 or as specific TOC traincrew agreement
Class 710 x 4 car	5
Class 378 or 710 x 5 car	6 minutes (5 minutes when forming an ECS)
Class 710 x 8 car	7
Class 378 or 710 x 9/10/12 car	8
GA Class 720 x 5 car	4
GA Class 720 x 10 car	7
GA Class 745 x 12 car	7
GA Class 755 x 3/4 car	4
GTR Class 387 x 4 car	8
GTR Class 387 x 8 car	9
GTR Class 387 x 12 car	10
GTR Class 700 x 8 car	8
GTR Class 700 x 12 car	10
GTR Thameslink services to/from south of London Blackfriars	10
GTR 6 car class 717	6
Class 345 7 car	6
Class 345 9 car	7

The above minimum values may be reduced with operator consent if additional resources, such as a second driver, are provided.

**Platform Re-occupation**

Minimum time allowed between one train departing and another arriving in the same platform at terminal stations	3
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**Reversal**

Reversal of light loco (light engine)	2
Reversal before/after propelling movement	2

**Single Line Re-occupation**

	3
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All allowances mentioned in the exceptions should be included in train times when approaching the listed timing point unless otherwise noted.

**Peak services**

Peak is defined as services arriving at London Kings Cross, St Pancras International, London Fenchurch Street, London Liverpool Street (High Level) & Tottenham Court Road between 0700 and 0959 SX and departing London Kings Cross, St Pancras International, London Fenchurch Street, London Liverpool Street (High Level) & Tottenham Court Road between 1600 and 1859 SX.

For all stations on EA1310, EA1320 and EA1370, the AM peak is defined as services calling at that station between 0700 and 0900 SX and the PM peak between 1630 and 1900 SX.

**THE FOLLOWING INFORMATION SHOWS THE EXCEPTIONS TO THESE STANDARD VALUES**

<b>EA1010 LIVERPOOL STREET TO SEVEN KINGS</b>	
<b>Liverpool Street</b>	
<b>Advertised Time changes</b>	
All arrivals between 07.00 and 09.59 (SX) to be advertised to arrive 2 minutes later than WTT time. (This does not apply to London Overground services or Norwich Class 9 services)	
MTR Crossrail trains which depart from Liverpool Street between 16.00 and 18.59 (SX) are to be advertised to arrive at destination 2 minutes later than WTT.	
<b>Connectional Allowance</b>	15
<b>Minimum Turnrounds</b>	
4-car EMU/DMU turnround passenger to ECS	5
3 to 9-car EMU/DMU/BMU turnround passenger to passenger	7
10/12-car EMU/DMU turnround passenger to passenger	9
10-car 720 turnround	
12-car 745 turnround except as below	10
12-car 745 turnround Norwich IC passenger to ECS	
12-car 745 turnround ECS to Norwich IC passenger	
12-car 745 turnround Norwich IC passenger to Norwich IC passenger	20
4/8-car 357 turnround	6
<b>Platform Re-occupation</b>	A platform re-occupation matrix is shown below
<b>Splitting and coupling of trains permitted</b>	In all platforms for class 1, 2, 3, ECS 5, 9 & 0 Class 720 5-car EMUs are not permitted to split/attach or run on top of another Class 720 5-car EMU in Platform 7 at Liverpool Street.
<b>Platforming Restrictions</b>	Class 710s – the following maximum capacity applies: Platforms: 1, 2, 7 & 8 - 8 car units in length  Platforms 1, 2, 7 & 8: An 8 car Class 710 cannot be accommodated in the platform with any other 4 car unit in any order.

**Liverpool Street Platform Reoccupation Matrix****Notes for the Platform Reoccupation Matrix**

\* = Trains can only access the Down Suburban Line from Platform 10 if both Platforms 9 and 10 are not occupied by more than 8 cars.

P = Parallel/Non Conflicting.

T = Minimum turnround time values apply.

0 = Minimum of 0 minutes to be allowed between 1st move and 2nd move.

0-1 = Where possible a minimum of 1 minute to be allowed between 1st move and 2nd move (0 minutes can be used if the arrival is formed of 8 cars or less and is not arriving into an occupied platform).

2 = Minimum of 2 minutes to be allowed between 1st move and 2nd move.

3 = Minimum of 3 minutes to be allowed between 1st move and 2nd move.

4 = Minimum of 4 minutes to be allowed between 1st move and 2nd move.

c = Value of 5 minutes to apply if 2nd move is a passenger service.

x = Only a parallel move if there are not more than two moves taking place at one time between Platforms 5-10 (Arr+Dep).

The Line codes shown below also appear in Section 2.1 of this document.

ML1 = Down ML trains running via 2008/2009 points.

ML2 = Down ML trains running via 2014/2015 points.

S1 = Up S trains running via 2014/2015 points.

S2 = Up S trains running via 2008/2009 points.

1st Move	2nd Move >>>																												
	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	
	1 S	2 S	3 S	4 S	5 S	5 S2	5 ML	6 S	6 S2	6 ML	7 S	7 S2	7 ML	8 S	8 S2	8 ML	9 S	9 S2	9 ML	10 S	10 ML	11 ML	12 ML	13 ML	13 EL	14 ML	14 EL	15 EL	16 EL
Arr 1 S	2	2	2	2	2	2	P	2	2	P	2	2	P	2	2	P	2	2	P	2	P	P	P	P	P	P	P	P	P
Arr 2 S	2	2	2	2	2	2	P	2	2	P	2	2	P	2	2	P	2	2	P	2	P	P	P	P	P	P	P	P	P
Arr 3 S	2	2	2	2	2	2	P	2	2	P	2	2	P	2	2	P	2	2	P	2	P	P	P	P	P	P	P	P	P
Arr 4 S	2	2	2	2	2	2	P	2	2	P	2	2	P	2	2	P	2	2	P	2	P	P	P	P	P	P	P	P	P
Arr 5 S / S1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	P	P	P	P	P	P	P
Arr 5 S2	2	2	2	2	2	2	2	2	2	Px	2	Px	P	P	P	P	P	P	P	P									
Arr 5 ML	P	P	P	P	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Arr 6 S / S1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	P	P	P	P	P	P	P
Arr 6 S2	2	2	2	2	2	2	2	2	2	2	2	2	Px	2	2	Px	2	2	Px	2	Px	P	P	P	P	P	P	P	P
Arr 6 ML	P	P	P	P	2	Px	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P
Arr 7 S / S1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	P	P	P	P	P	P	P
Arr 7 S2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Px	2	2	Px	2	Px	P	P	P	P	P	P	P	P
Arr 7 ML	P	P	P	P	2	Px	2	2	Px	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P
Arr 8 S / S1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	P	P	P	P	P	P	P
Arr 8 S2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Px	P	P	P	P	P	P	P	P
Arr 8 ML	P	P	P	P	2	Px	2	2	Px	2	2	Px	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P
Arr 9 S / S1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	P	P	P	P	P	P	P
Arr 9 S2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Px	P	P	P	P	P	P	P
Arr 9 ML	P	P	P	P	2	Px	2	2	Px	2	2	Px	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P
Arr 10 S	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	P	P	P	P	P	P	P
Arr 10 ML	P	P	P	P	2	Px	2	2	2	2	2	2	P	2	P	P	P												
Arr 11 ML	P	P	P	P	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	P	P	P	P	P	P	P	P
Arr 12 ML	P	P	P	P	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	2	2	2	P	2	P	P
Arr 13 ML	P	P	P	P	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	2	2	2	2	2	2	P
Arr 13 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	2	2	2	2
Arr 14 ML	P	P	P	P	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	2	2	2	2	2	2	P
Arr 14 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	2	2	2	2
Arr 15 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	P	2	2	2
Arr 16 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	P	2	2	2
Arr 17 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	P	2	2	2

1 <sup>st</sup> Move	2nd Move >>>																												
	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	
	1 S	2 S	3 S	4 S	5 S	5 S2	5 ML	6 S	6 S2	6 ML	7 S	7 S2	7 ML	8 S	8 S2	8 ML	9 S	9 S2	9 ML	10 S	10 ML	11 ML	12 ML	13 ML	13 EL	14 ML	14 EL	15 EL	16 EL
Dep 1 S	3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Dep 2 S	3	3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Dep 3 S	3	3	3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Dep 4 S	3	3	3	3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Dep 5 S	3	3	3	3	3	3	4	Px	3	Px	Px	Px	P	P	P	P	P	P	P	P									
Dep 5 ML / ML1	P	P	P	P	3	3	4	3	3	Px	3	Px	P	P	P	P	P	P	P	P									
Dep 5 ML2	P	P	P	P	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	3	4	P	P	P	P	P	P	P	P
Dep 6 S	3	3	3	3	3	3	4	3	3	4	Px	3	Px	Px	3	Px	Px	3	Px	Px	Px	P	P	P	P	P	P	P	P
Dep 6 ML / ML1	P	P	P	P	3	3	4	3	3	4	3	3	Px	3	3	Px	3	3	Px	3	Px	P	P	P	P	P	P	P	P
Dep 6 ML2	P	P	P	P	3	Px	4	3	3	4	3	3	4	3	3	4	3	3	4	3	4	P	P	P	P	P	P	P	P
Dep 7 S	3	3	3	3	3	3	4	3	3	4	3	3	4	Px	3	Px	Px	3	Px	Px	Px	P	P	P	P	P	P	P	P
Dep 7 ML / ML1	P	P	P	P	3	3	4	3	3	4	3	3	4	3	3	Px	3	3	Px	3	Px	P	P	P	P	P	P	P	P
Dep 7 ML2	P	P	P	P	3	Px	4	3	Px	4	3	3	4	3	3	4	3	3	4	3	4	P	P	P	P	P	P	P	P
Dep 8 S	3	3	3	3	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	Px	Px	P	P	P	P	P	P	P	P
Dep 8 ML1	P	P	P	P	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	3	Px	P	P	P	P	P	P	P	P
Dep 8 ML / ML2	P	P	P	P	3	Px	4	3	Px	4	3	Px	4	3	3	4	3	3	4	3	4	P	P	P	P	P	P	P	P
Dep 9 S	3	3	3	3	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	Px	Px	P	P	P	P	P	P	P	P
Dep 9 ML1	P	P	P	P	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	3	Px	P	P	P	P	P	P	P	P
Dep 9 ML / ML2	P	P	P	P	3	Px	4	3	Px	4	3	Px	4	3	3	4	3	3	4	3	4	P	P	P	P	P	P	P	P
Dep 10 S*	3	3	3	3	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	3	4	P	P	P	P	P	P	P	P
Dep 10 ML	P	P	P	P	3	Px	4	3	4	P	P	P	P	P	P	P	P												
Dep 11 ML	P	P	P	P	P	P	4	P	P	4	P	P	4	P	P	4	P	P	4	P	4	3	P	P	P	P	P	P	P
Dep 12 ML	P	P	P	P	P	P	4	P	P	4	P	P	4	P	P	4	P	P	4	P	4	3	3	P	P	P	P	P	P
Dep 13 ML	P	P	P	P	P	P	4	P	P	4	P	P	4	P	P	4	P	P	4	P	4	3	3	3	3	P	P	P	P
Dep 13 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3	3	3	3	P	P	P
Dep 14 ML	P	P	P	P	P	P	4	P	P	4	P	P	4	P	P	4	P	P	4	P	4	3	3	3	3	3	3	P	P
Dep 14 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3	3	3	3	P	P	P
Dep 15 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3	3	3	3	P	P
Dep 16 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3	3	3	3	3	3	3
Dep 17 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3	3	3	3	3	3	3

1 <sup>st</sup> Move	2nd Move >>>																													
	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep		
	1 S	2 S	3 S	4 S	5 S	5 ML	5	6 S	6 ML	6	7 S	7 ML	7	8 S	8	8 ML	9 S	9	9 ML	10S	10 ML	11 ML	12 ML	13 ML	13 EL	14 ML	14 EL	15 EL	16 EL	17 EL
Arr 1 S	T	0-1	0-1	0-1	0	P	P	0	P	P	0	P	P	0	P	P	0	P	P	0	P	P	P	P	P	P	P	P	P	P
Arr 2 S	P	T	0-1	0-1	0	P	P	0	P	P	0	P	P	0	P	P	0	P	P	0	P	P	P	P	P	P	P	P	P	P
Arr 3 S	P	P	T	0-1	0	P	P	0	P	P	0	P	P	0	P	P	0	P	P	0	P	P	P	P	P	P	P	P	P	P
Arr 4 S	P	P	P	T	0	P	P	0	P	P	0	P	P	0	P	P	0	P	P	0	P	P	P	P	P	P	P	P	P	P
Arr 5 S / S1	P	P	P	P	T	T	T	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	P	P	P	P	P	P	P	P	P
Arr 5 S2	P	P	P	P	T	T	T	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	Px	P	P	P	P	P	P	P	P	P
Arr 5 ML	P	P	P	P	T	T	T	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0	0	0	P	0	P	P	P	P
Arr 6 S / S1	P	P	P	P	Px	0-1	0-1	T	T	T	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	P	P	P	P	P	P	P	P	P
Arr 6 S2	P	P	P	P	0-1	0-1	0-1	T	T	T	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	Px	P	P	P	P	P	P	P	P	P
Arr 6 ML	P	P	P	P	Px	Px	0-1	T	T	T	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0	0	0	P	0	P	P	P	P
Arr 7 S / S1	P	P	P	P	Px	0-1	0-1	Px	0-1	0-1	T	T	T	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	P	P	P	P	P	P	P	P	P
Arr 7 S2	P	P	P	P	0-1	0-1	0-1	0-1	0-1	0-1	T	T	T	0-1	0-1	Px	0-1	0-1	Px	0-1	Px	P	P	P	P	P	P	P	P	P
Arr 7 ML	P	P	P	P	Px	Px	0-1	Px	Px	0-1	T	T	T	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0	0	0	P	0	P	P	P	P
Arr 8 S / S1	P	P	P	P	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	T	T	T	0-1	0-1	0-1	0-1	0-1	P	P	P	P	P	P	P	P	P
Arr 8 S2	P	P	P	P	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	T	T	T	0-1	0-1	0-1	0-1	Px	P	P	P	P	P	P	P
Arr 8 ML	P	P	P	P	Px	Px	0-1	Px	Px	0-1	Px	Px	0-1	T	T	T	0-1	0-1	0-1	0-1	0-1	0	0	0	P	0	P	P	P	P
Arr 9 S / S1	P	P	P	P	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	0-1	0-1	0-1	T	T	T	0-1	0-1	P	P	P	P	P	P	P	P	P
Arr 9 S2	P	P	P	P	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	T	T	T	0-1	Px	P	P	P	P	P	P	P	P	P
Arr 9 ML	P	P	P	P	Px	Px	0-1	Px	Px	0-1	Px	Px	0-1	0-1	0-1	0-1	T	T	T	0-1	0-1	0	0	0	P	0	P	P	P	P
Arr 10 S	P	P	P	P	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	T	T	P	P	P	P	P	P	P	P	P
Arr 10 ML	P	P	P	P	Px	Px	0-1	Px	Px	0-1	Px	Px	0-1	Px	Px	0-1	Px	Px	0-1	T	T	0	0	0	P	0	P	P	P	P
Arr 11 ML	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	T	0-1	0	P	0	P	P	P	P
Arr 12 ML	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	T	0	P	0	P	P	P	P
Arr 13 ML	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	T	T	0-1	0-1	0-1	0-1	0-1	0-1
Arr 13 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	T	T	0-1	0-1	0-1	0-1	0-1	0-1
Arr 14 ML	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0-1	T	T	P	P	P
Arr 14 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	T	T	0-1	0-1	0-1
Arr 15 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	T	0-1	0-1	0-1
Arr 16 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Arr 17 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0-1	T

1 <sup>st</sup> Move	2nd Move >>>																												
	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	
	1 S	2 S	3 S	4 S	5 S	5 ML	5	6 S	6 ML	6	7 S	7 ML	7	8 S	8	8 ML	9 S	9	9 ML	10S	10 ML	11 ML	12 ML	13 ML	13 EL	14 ML	14 EL	15 EL	16 EL
						ML1	ML2		ML1	ML2		ML1	ML2		ML1	ML2		ML1	ML2	*									
Dep 1 S	2c	2	2	2	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	P	P	P	P	P	P	P
Dep 2 S	2	2c	2	2	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	P	P	P	P	P	P	P
Dep 3 S	2	2	2c	2	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	P	P	P	P	P	P	P
Dep 4 S	2	2	2	2c	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	P	P	P	P	P	P	P
Dep 5 S	2	2	2	2	2c	2c	2c	2	2	P	2	2	2	P	2	2	P	2	2	P	2	P	P	P	P	P	P	P	P
Dep 5 ML / ML1	P	P	P	P	2c	2c	2c	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P
Dep 5 ML2	P	P	P	P	2c	2c	2c	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P
Dep 6 S	2	2	2	2	2	2	2	2c	2c	2c	2	2	Px	2	2	Px	2	2	Px	2	Px	P	P	P	P	P	P	P	P
Dep 6 ML / ML1	P	P	P	P	2	2	2	2c	2c	2c	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P
Dep 6 ML2	P	P	P	P	Px	2	2	2c	2c	2c	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P
Dep 7 S	2	2	2	2	2	2	2	2	2	2	2c	2c	2c	2	2	Px	2	2	Px	2	Px	P	P	P	P	P	P	P	P
Dep 7 ML / ML1	P	P	P	P	2	2	2	2	2	2	2c	2c	2c	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P
Dep 7 ML2	P	P	P	P	Px	2	2	Px	2	2	2c	2c	2c	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P
Dep 8 S	2	2	2	2	2	2	2	2	2	2	2	2	2	2c	2c	2c	2	2	2	2	2	2	2	2	P	2	P	P	P
Dep 8 ML1	P	P	P	P	2	2	2	2	2	2	2	2	2	2c	2c	2c	2	2	2	2	2	2	2	2	P	2	P	P	P
Dep 8 ML / ML2	P	P	P	P	Px	2	2	Px	2	2	Px	2	2	2c	2c	2c	2	2	2	2	2	2	2	2	P	2	P	P	P
Dep 9 S	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2c	2c	2c	2	Px	P	P	P	P	P	P	P	P
Dep 9 ML1	P	P	P	P	2	2	2	2	2	2	2	2	2	2	2	2	2c	2c	2c	2	2	2	2	2	2	P	2	P	P
Dep 9 ML / ML2	P	P	P	P	Px	2	2	Px	2	2	Px	2	2	2	2	2	2c	2c	2c	2	2	2	2	2	2	P	2	P	P
Dep 10 S*	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2c	2c	P	P	P	P	P	P	P	P
Dep 10 ML	P	P	P	P	Px	2	2	Px	2	2	Px	2	2	Px	2	2	Px	2	2	2c	2c	2	2	2	P	2	P	P	P
Dep 11 ML	P	P	P	P	P	2	2	P	2	2	P	2	2	P	2	2	P	2	2	P	2	2	2	2	P	2	P	P	P
Dep 12 ML	P	P	P	P	P	2	2	P	2	2	P	2	2	P	2	2	P	2	2	P	2	2	2c	2	P	2	P	P	P
Dep 13 ML	P	P	P	P	P	2	2	P	2	2	P	2	2	P	2	2	P	2	2	P	2	2	2c	2c	2	P	P	P	P
Dep 13 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2c	2c	2	2	2	2
Dep 14 ML	P	P	P	P	P	2	2	P	2	2	P	2	2	P	2	2	P	2	2	P	2	2	2	2	2	2c	2c	P	P
Dep 14 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	2c	2c	2	2	2
Dep 15 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	P	2	2c	2	2
Dep 16 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	P	2	2	2c	2
Dep 17 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	P	2	2	2	2c

<b>Bethnal Green</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
All down trains from 1600 to 1859 Mondays to Fridays running ML and approaching from Liverpool Street	Platform departure performance recovery allowance	{1}
Approaching Up direction moves from Temple Mills line	Via slow speed crossover	{1} Loco hauled {½} EMU
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Up train travelling towards Liverpool Street	Down Train travelling towards Stratford	2½
Down train travelling towards Stratford	Up train travelling towards Liverpool Street	1

<b>Bow Junction</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Approaching Down direction moves towards BL, DX1, DX3, DX4 or UBL	Via slow speed crossover	{1} Loco hauled {½} EMU
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Pass Bow Jn on Down ML	Depart Bow Jn from Up Temple Mills to Up ML	1
Pass/Depart Bow Jn from Up Temple Mills to Up ML	Pass Bow Jn on Down ML	3
<b>Restriction</b>		
For ARS regulating purposes in the Up direction on Temple Mills lines ARR and DEP times with activities A and * to be used and not pathing time.		

<b>Bow Yard</b>		
Note: Only one train can be planned into Bow East Yard at any one time. Bow West can accommodate one train in the Plasmor terminal and one train in the Aggregates terminal but both terminals share the reception/run-round roads. Any train in the Aggregates terminal will block the reception/run-round roads.		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Freight train arrives in Bow West for Plasmor terminal	Freight train arrives in Bow West for Aggregates terminal	25
<b>Terminal Length</b>		
Bow Depot Reception Loop Length	42 SLUs	

<b>Stratford</b>		
<b>Connectional Allowance</b>	7	
<b>Junction Margins for Stratford Central Junction</b>		
<b>Movements and Conflicting Moves</b>		<b>Margin</b>
Passenger Following Passenger		2
Passenger Following Freight	Standard (exceptions below)	3
Up Freight Pass Platform 10 to Hackney Wick	Down Passenger Arrive Platform 10	3½
Up Freight Pass Platform 10 to Hackney Wick	Up Passenger Arrive Platform 9	2½
Freight following Freight	Standard (exceptions below)	4
Up Freight Pass Platform 10A to Hackney Wick	Down Freight Pass Platform 10A from Hackney Wick	4
Freight Following Passenger	Standard (exceptions below)	3
Down Passenger Depart Platform 10	Up Freight Pass Platform 10 to Hackney Wick	2½
Down Passenger Depart Platform 10	Down Freight Pass Platform 10A from Hackney Wick (if not being held at Stratford Signal L295)	1½
Down Passenger Depart Platform 10	Down Freight Depart Stratford Signal L295	1½
Up Passenger Pass from Orient Way	Up Freight Pass Platform 10 to Hackney Wick	1½
Up Passenger Pass from Orient Way	Down Freight Pass Platform 10A from Hackney Wick	3½
Down Passenger Pass to Orient Way	Down Freight Pass Platform 10A from Hackney Wick	2½
Down Passenger Pass to Orient Way	Up Freight Pass Platform 10 to Hackney Wick	1
Up Passenger Depart Platform 10A to Liverpool Street	Down Freight Pass Platform 10A from Hackney Wick	3
<b>Platform Reoccupation</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Platform 11		
Trains towards Liverpool Street	Trains towards Temple Mills East Jn	3
Platform 12		
Trains towards Liverpool Street	Trains towards Temple Mills East Jn, applicable to trains from Liverpool Street	6

<b>Stratford</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
For freight from Woodgrange Park via UEL and Maryland East Crossovers into P10	Acceleration allowance after crossing from slow speed branch line, approach control at L330, and slow speed crossover at Maryland East	{2}
For freight from Woodgrange Park via UML from Forest Gate Junction Crossovers into P10	Acceleration allowance after crossing from slow speed branch line	{1½}
For freight from Woodgrange Park via UEL and Maryland East Crossovers into P10a	Acceleration allowance after crossing from slow speed branch line and slow speed crossovers at Maryland into P10a	{3}
For freight from Woodgrange Park via UML from Forest Gate Junction Crossovers into P10a	Acceleration allowance after crossing from slow speed branch line and slow speed crossovers at Maryland into P10a	{2½}
For freight from Ilford UML crossing over at Maryland East Crossovers into P10a	Slow speed crossovers at Maryland into P10a	{2}
For freight from Ilford UML crossing to DML at Forest Gate Junction Crossovers running through P10a	Slow speed crossover at Maryland into P10a	{1½}
For freight from Ilford UEL via Maryland East Crossovers into P10	Slow speed crossover at Maryland East	{1}
For freight from Ilford UEL crossing at Forest Gate Junction and running UML into P10	Acceleration allowance	{½}
For freight from Ilford running UEL to Maryland East Crossovers and then into P10a	Slow speed crossovers at Maryland into P10a	{2}
For freight from Ilford UEL crossing at Forest Gate Junction to UML and through P10a	Allowance after crossing at Forest Gate Junction from slower speed line and slow speed crossovers at Maryland into P10	{2½}
For freight from Ilford UEL crossing at Forest Gate Junction to DML and through P10a	Slow speed crossovers at Maryland into P10a	{2}
<b>Dwell Time</b>	1 Peak time only 1 MTR Elizabeth line services 1 Class 745/755 operated services	
<b>Standage Lengths</b>		
Platform 10A	Length clear of 2151 points	39 SLUs / 254m
Stratford Signal L295 (Angel Lane Loop)	Length clear of 2151 points (includes Platform 10A)	83 SLUs / 537m
Stratford Signal L295 (Angel Lane Loop)	Length clear of Carpenters Road North Junction, 645 points (includes Platform 10A). Please note a train extending past 2151 points, towards Carpenters Road North Junction, will prevent movements to/from Stratford Platforms 11 & 12 at the London end and on or off the Temple Mills Lines at Stratford. Trains may still access Stratford Platforms 11 & 12 to/from Temple Mills East Junction.	171 SLUs / 1100m
Stratford Signal L295 (Angel Lane Loop)	Length clear of Platform 10A A first train can be held at Stratford Signal L295 whilst a second train can be held in Platform 10A providing the first train is no longer than 149m.	23 SLUs / 149m
<b>Stratford Platforms 1 and 2</b>		
See entry under route EA1320 Camden Road West Junction to Stratford Platform 1 and 2		

<b>Forest Gate Station</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
For freight from Ilford crossing from UML to DML at Forest Gate Junction	Slow speed crossover	{½}
For freight from Ilford avoiding line	Slow speed crossover	{½}

<b>Forest Gate Junction</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Down trains crossing to Down EL towards Ilford	Via slow speed crossover	{½}
Down trains crossing to Woodgrange Park	Via slow speed crossover	{½}
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling Moves;		
Passenger following Passenger		2
Passenger following Freight		3
Freight following Freight		3
Freight following Passenger		2

<b>Ilford</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Trains timed at 75mph or above crossing from Up ML to Up Passenger Avoiding Line	Deceleration	{½} approaching Ilford
<b>Connectional Allowance</b>		2
<b>Dwell Time</b>		1* MTR Elizabeth line services
* May be reduced to ½ minute by agreement with the operator		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Freight pass Ilford from Down Passenger Avoiding line	Arrive Ilford Platform 4	3
Freight pass Ilford from Down Passenger Avoiding line	Pass Ilford Platform 4	4

<b>Ilford Depot London End Junction</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Down train crossing from Main Line to Electric	Faster speed due to not entering Depot	{-½}
Up train crossing from Electric Line to Main Line not departing Depot	Faster speed due to not exiting Depot	{-½} approaching Ilford

<b>Iflord Depot London End Junction</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Down Train Passing Iflord on Electric Lines	Up Train Passing on Electric Lines from Depot	4
Down Train Departing Iflord on Electric Lines	Up Train Passing on Electric Lines from Depot*	4½*
Up Train Passing on Electric Lines from Depot	Down Train Passing Iflord on Electric Lines	2
Up Train Passing on Electric Lines from Depot	Down Train Departing Iflord on Electric Lines	1½
* Margin may be reduced to 4 minutes if the next train following on the Up Electric Line from Seven Kings has {½} approaching its next timing point		

<b>Seven Kings</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Down train stopping at Seven Kings crossing from the down Electric Line to platform 3	Approach control prior to slow speed crossover	{1}
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Down EL train arrive at Seven Kings	Up train pass/depart Seven Kings towards Iflord EMUD	1
Down train pass/depart Seven Kings Platform 3 towards Down ML	Up train arrive Seven Kings Platform 3	3
Down train pass/depart Seven Kings Platform 3 towards Down ML	Up passenger train which passes Seven Kings Platform 3 pass/arrive Iflord	4½
Down train pass/depart Seven Kings Platform 3 towards Down ML	Up freight train which passes Seven Kings Platform 3 pass/arrive Iflord	5
Up train depart Seven Kings Platform 3	Down train pass/arrive Seven Kings Platform 3	3
Up passenger train which has passed Seven Kings Platform 3 pass/arrive Iflord	Down train pass/arrive Seven Kings Platform 3	1½
Up freight train which has passed Seven Kings Platform 3 pass/arrive Iflord	Down train pass/arrive Seven Kings Platform 3	1
Up train pass/depart Seven Kings towards Iflord EMUD	Down train arrive Seven Kings Platform 4	4
Up train pass/depart Seven Kings towards Iflord EMUD	Down train pass/depart Iflord routed towards Seven Kings Platform 4 (not stopping at or timed at Seven Kings)	2

<b>EA1011 SEVEN KINGS TO IPSWICH</b>	
<b>Romford</b>	
<b>Dwell Time</b>	1* MTR Elizabeth line services
* May be reduced to ½ minute by agreement with the operator	

<b>Gidea Park</b>	
<b>Connectional Allowance</b>	2

<b>Gidea Park Stabling Lines &amp; Gidea Park Shunt Spur</b>		
<b>Restrictions</b>		
Simultaneous arrivals at the Stabling Lines are not possible. This includes both the Stabling Lines and Shunt Spur, e.g. if one arrival is at the London End and one arrival is at the Shunt Spur at the Country End. This is due to the signal overlaps on the Stabling Lines extending into the Shunt Spur at the Country End and overrun spur at the London End. Similarly, a simultaneous departure from the Shunt Spur and arrival at the Stabling Lines is not possible.		
<b>Overlap Restrictions</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Arrival at Gidea Park Stabling Lines from Gidea Park	Departure from Gidea Park Shunt Spur	2
Departure from Gidea Park Shunt Spur	Pass/Depart Gidea Park station towards Gidea Park Stabling Lines	2

<b>Shenfield</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Approaching Passenger/ECS Up direction moves for non-stop trains from Chelmsford direction crossing to EL	Via slow speed crossover	{1}
Passenger/ECS Down direction moves for non-stop trains towards Chelmsford crossing from EL at Shenfield	Via slow speed crossover	{1} approaching next timing location
<b>Adjustments to Sectional Running Times</b>		
For Down direction moves for non-stop trains towards Chelmsford crossing from EL at Shenfield the below allowances are to be applied at the next timing location		
<b>Timing Load</b>	<b>Reason</b>	<b>Allowance</b>
Class 6 under 600t	Speed Differential	{1}
Class 6 600t to 1600t inclusive	Speed Differential	{1½}
Class 6 over 1600t	Speed Differential	{2}
Class 4 under 600t	Speed Differential	{1}
Class 4 600t to 799t inclusive	Speed Differential	{1½}
Class 4 800t to 1000t inclusive	Speed Differential	{2}
Class 4 over 1000t	Speed Differential	{2½}
<b>Adjustments to Sectional Running Times</b>		
Approaching Up direction moves for non-stop trains from Chelmsford direction crossing to EL or Up Passenger Loop at Shenfield		
<b>Movement</b>	<b>Reason</b>	<b>Allowance</b>
Up Freight Trains	Speed differential	{1½}
<b>Connectional Allowance</b>		
		3
<b>Dwell Time</b>		
	1 Peak time only 1 Class 745/755 operated services	
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Arrival	Conflicting departure	1
Passenger passing move	Conflicting departure	1
Freight passing move	Conflicting departure	2
Up departure to EL	Conflicting passenger arrival from EL	3
Up departure to EL	Conflicting freight pass from EL	4

<b>Shenfield</b>		
<b>Overlap Restrictions</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Up departure from platform 1 to ML or EL	Up arrival into platform 2	2
Up arrival into platform 2	Up departure from platform 1 to ML or EL	1

<b>Chelmsford</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Down direction non-stop moves to Chelmsford Down Loop	Slow speed crossover into loop	{1}
Up direction non-stop moves from Chelmsford Reception or Chelmsford Down Loop	Slow speed exit from loop	{1} approaching next timing point
Up direction passenger trains from Chelmsford platform 2	Speed differential	{ $\frac{1}{2}$ } approaching next timing point
Note that these allowances must be added to any other adjustment allowances required in this section, e.g. for crossing movements at Shenfield.		
<b>Connectional Allowance</b>	3	
<b>Dwell Time</b>	1 2 AM peak: ECS to passenger train starting from Platform 2	
<b>Junction Margins</b>		
<b>First Move</b>	<b>Second Move</b>	<b>Margin</b>
Down train pass/depart Platform 2 towards Witham	Up train pass/arrive Platform 2 from Chelmsford DPL	3
Up passenger/ECS train pass Platform 1	Up train depart Platform 2 towards UML	2
Up train pass/depart Platform 2 towards UML	Down train pass/arrive Platform 2 from DML	3
<b>Splitting and Coupling of trains permitted</b>	Detaching of trains is permitted in platforms 1, 2 and Down Passenger Loop for ECS only. Attaching is not permitted.	

<b>Witham</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Approaching Up direction moves to Platform 1 not timed at Passenger Loop	Via slow speed crossover	{1}
Approaching Down Direction moves to Platforms 1 & 4	Via slow speed crossovers	{ $\frac{1}{2}$ }
Up passenger trains departing Platforms 1, 3 & 4 (not required for freight trains which include this allowance in the SRT)	Via slow speed crossover	{ $\frac{1}{2}$ } approaching next timing point
<b>Connectional Allowance</b>	2	

<b>Witham</b>		
<b>Dwell Time</b>	1 Peak time only 1 Class 745/755 operated services 2 12-car Class 321 services to Braintree	
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Down train pass/arrive Platform 3	Up train depart Platform 4	1
Up train depart Platform 4	Down train pass/arrive	3
Down train arrives Platform 1 or 4	Down passenger/ECS train pass Platform 3	2
<b>Converging Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Up passenger/ECS train pass Platform 2	Up train depart Platform 1, 3 or 4	2
Up passenger/ECS train depart Platform 2	Up freight train depart Platform 1	2
<b>Overlap Restriction</b>		
It is not possible for an Up train to arrive in Platform 2 simultaneous with an Up departure from Platform 4		
<b>Splitting and Coupling of trains permitted</b>	Attaching and Detaching permitted in platforms 1 and 4 only for class 1, 2, 3 ECS, 5 ECS, 9 and 0	
<b>Routing of trains passing through or stopping in Platform 1</b>		
The preferred routing for trains using Platform 1 is via the Up Loop where possible to reduce delay to following services by clearing the Main Line earlier		

<b>Marks Tey</b>			
<b>Adjustments to Sectional Running Times</b>			
<b>Movement</b>	<b>Timing Load</b>	<b>Reason</b>	<b>Allowance</b>
Pass to Marks Tey Yard	Freight	Deceleration for slow speed entry	{1½}
Pass from Marks Tey Up Loop or Yard	Class 4 up to 800t/TR50	Speed differential	{1½} approaching next timing point
	Class 4 1000t/TR60	Speed differential	{1} approaching next timing point
	Class 4 1200t/TR70 and above	Speed differential	{½} approaching next timing point
	Class 6 1600t/TR85	Speed differential	{½} approaching next timing point
	Class 6 1800t/TR100 to 2000t/TR115 inclusive	Speed differential	{1} approaching next timing point
	Class 6 2200t/TR130 and above	Speed differential	{1½} approaching next timing point
<b>Junction Margins</b>			
<b>First Movement</b>	<b>Second Movement</b>		<b>Value</b>
Freight set back from platform 1 into sidings	Next up service arrives/passes Marks Tey		7
Up train pass/depart platform 1	Up freight depart from Marks Tey Up Loop or Yard		1

<b>Marks Tey</b>	
<b>Connectional Allowance</b>	2
<b>Splitting and Coupling of trains permitted</b>	Attaching and Detaching permitted in Up Passenger Loop for class 5 ECS only during times of engineering work.
<b>Restriction</b>	
Marks Tey Yard can only accommodate one train at a time – single train working. Light engine movements to be treated as an exception to this, i.e. light engines are permitted to depart and arrive when there is a set of wagons already in the sidings.	

<b>Colchester Yard</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Allowance*</b>
Class 4 freight trains departing towards Colchester	Acceleration, not at line speed passing Colchester	up to 400t {1½}
		600t/TR30 {2}
		800t/TR40 {2½}
		1000t/TR55 {3}
		1200t/TR70 to 1475t/TR80 inclusive {3½}
		1600t/TR85 and over {4}
Class 6 freight trains departing towards Colchester	Acceleration, not at line speed passing Colchester	up to 600t/TR40 {1}
		800t {1½}
		1000t/TR55 {2}
		1200t to 1400t/TR70 inclusive {2½}
		1600t/TR85 {3}
		1800t/TR100 {3½}
		2000t/TR115 to 2200t inclusive {4}
		2400t/TR130 and over {4½}
* Allowance to be applied approaching next timing point <i>after</i> Colchester		

<b>Colchester</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Allowance</b>
Approaching Down direction moves to Platforms 1 and 3	Via slow speed crossover	{½}
Approaching Down direction moves to Platforms 4 and 6	Via slow speed crossover	{1}
Down passenger/ECS from Platforms 1, 3 and 4 towards Manningtree	Via slow speed crossover	{½} approaching next timing point
Approaching Up direction moves from Manningtree to Platform 4	Via slow speed crossover	{½}
Approaching Up direction moves from Manningtree to Platforms 1 or 2	Via slow speed crossover	{1}
Departure in the Up direction from platforms 1, 2, 4 or 6	Via slow speed crossover	{½}
Up freight routed into Colchester Yard or Colchester Up Loop	Deceleration	{1½}

<b>Colchester</b>		
<b>Connectional Allowance</b>		4
<b>Dwell Time</b>		1 1½ Class 745 operated Norwich InterCity services
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Up passenger/ECS pass platform 3 from Manningtree	Up departure from platform 4	2
Up direction pass/arrive platform 1 (except from Up and Down Avoiding line)	Down direction arrival into platform 2	2*
Down direction arrival into platform 2	Up direction pass/arrive platform 1 (except from Up and Down Avoiding line)	2*
Down train pass/depart Colchester towards East Gate Jn via CR Line	Up train pass/arrive Colchester from East Gate Jn via CR Line	6
Departure from Platform 1, 2, 3 or 4	Departure from same platform in opposite direction	2
*Overlap on signal CO1067 extends across 3025B points so moves are not parallel		
<b>Other Restrictions</b>	Down Greater Anglia Mainline EMU operated trains to use Platforms 1 or 2. Up Greater Anglia Mainline EMU Operated trains to use Platforms 3 or 4. Clacton/Walton branch terminating trains to use Platform 5	
	Terminating down line and starting up line trains to use Platform 6 where practicable	
	It is possible to have simultaneous moves between Colchester station and the depot so long as one movement is between the sidings 1-6 and platform 1 or 2 and the other movement is between the reception road and platforms 3, 4 or 6.	
<b>Splitting and Coupling of trains permitted</b>	Platform 1, 2, 3 and 4 Permissive Working - Attaching and Detaching permitted only for class 1, 2, 3 ECS, 5 ECS, 9 and 0 trains. Platform 5 and 6 Permissive Working only for class 1, 2, 3 ECS, 5, 9 and 0 trains	
<b>Terminal Lengths</b>		
Colchester TC Reception 1 & 2		52 SLUs

<b>Manningtree</b>			
<b>Adjustments to Sectional Running Times</b>			
<b>Movement</b>	<b>Timing Load</b>	<b>Reason</b>	<b>Allowance</b>
Down direction non-stop trains routed towards Harwich Branch	Passenger & ECS	Via slow speed crossover	{1}
	Freight	Speed differential	{1½}
Applicable to timing loads shown for Up direction trains passing from the Harwich Line, to be applied approaching the next timing point	Passenger & ECS	Via slow speed crossover	{1}
	Class 6 under 600t	Speed Differential	{½}
	Class 6 600t/TR35 to 999t inclusive	Speed Differential	{1}
	Class 6 1000t/TR55 to 1199t inclusive	Speed Differential	{1½}
	Class 6 1200t/TR60 to 1399t/TR70 inclusive	Speed Differential	{2}
	Class 6 1400t/TR80 to 2000t/TR115 inclusive	Speed Differential	{2½}
	Class 6 over 2000t/TR115	Speed Differential	{3}
<b>Connectional Allowance</b>		2	

<b>Manningtree</b>	
<b>Dwell Time</b>	1 1½ Class 745 operated Norwich InterCity services

<b>Manningtree North Junction</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Value</b>
Departing Manningtree to Ipswich	Passing Manningtree North from Manningtree East Jn	4
Passing Manningtree to Ipswich	Passing Manningtree North from Manningtree East Jn	3
Arriving Manningtree from Ipswich	Passing Manningtree North from Manningtree East Jn	Simultaneous
Passing Manningtree from Ipswich	Passing Manningtree North from Manningtree East Jn	1
Passing Manningtree North from Manningtree East Jn	Departing Manningtree to Ipswich	2
Passing Manningtree North from Manningtree East Jn	Passing Manningtree to Ipswich	2½
Freight Passing Manningtree North from Manningtree East Jn	Arriving Manningtree from Ipswich	5
Passenger/ECS Passing Manningtree North from Manningtree East Jn	Arriving Manningtree from Ipswich	4½
Freight Passing Manningtree North from Manningtree East Jn	Passing Manningtree from Ipswich	4
Passenger/ECS Passing Manningtree North from Manningtree East Jn	Passing Manningtree from Ipswich	3½

<b>Halifax Junction</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Allowance</b>
Down trains crossing to UL or Griffin Wharf branch at Halifax Jn	Approach control	{1}
Up trains crossing from DL to Up Main	Via slow speed crossover	{½} approaching next timing point
Up trains which have departed from Griffin Wharf	Slow speed through Halifax Junction and slow acceleration forward	{5} approaching next timing point

<b>Ipswich</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Allowance</b>
All Up trains departing from Platform 4	Via slow speed crossover	{½} approaching Halifax Jn
Down trains arriving in Platform 4	Via slow speed crossover	{½}
Down trains departing from Platforms 1, 2 and 4 towards Stowmarket	Via slow speed crossover	{½} approaching next timing point
Up trains arriving in Platforms 1, 3, 4 from Stowmarket	Via slow speed crossover	{½}
Freight trains which stop for a Crew change	Reduced speed due to Running Brake Test after leaving Ipswich	{2} approaching next timing point after Halifax Jn
<b>Dwell Time</b>		
Multiple Units		1
745 operated services except as below		1½
745 operated Class 9 services		1
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Conflicting passenger train arrives at Ipswich	Freight Train passes through Ipswich	1
Conflicting passenger train arrives at Ipswich	Freight train stopping at Ipswich	2
Freight train travelling towards Ipswich SS or Reception	Down Passenger train following	4
Pass/arrive platform 3 from Down Main	Up arrive unoccupied platform 4	2*
Up arrive unoccupied platform 4	Pass/arrive platform 3 from Down Main	3*
Down pass/arrive TL from Up Main	Up arrive unoccupied platform 2	2&
Up arrive unoccupied platform 2	Down pass/arrive TL from Up Main	3&
* Overlap on Signal CO302 extends into Ipswich Tunnel on the Down Main		
& Overlap on Signal CO308 extends into Ipswich Tunnel on the Up Main. Up train can only arrive unoccupied platform 2 after the down service if the down arrival does not exceed the Through Line standage length. If the down service exceeds the Through Line standage length it will still be occupying the overlap and arrival into platform 2 will only be possible once the first service has departed the Through Line.		
<b>Location</b>		
	<b>Length Limits</b>	
Ipswich Through Line	55 SLUs	
Ipswich Station Siding	32 SLUs	
<b>Permissive Working</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Arrive in occupied platform	Depart same platform in same direction	2
<b>Other Restrictions</b>		
	Terminating down trains to use Platform 2 where practicable	
<b>Splitting and Coupling of trains permitted</b>		
	In all platforms for use for class 1, 2, 3 ECS, 5, 9 and 0	

**EA1012 IPSWICH TO TROWSE JUNCTION****Ipswich Yard****Adjustments to Sectional Running Times**

Movement	Reason	Allowance
Freight trains departing from Ipswich Yard towards Halifax Junction following a Crew change or change in train formation (e.g. loco change).	Reduced speed due to Running Brake Test after leaving Ipswich	{2} approaching next timing point after Halifax Jn

**Allowances for Conflicting Movements**

First Movement	Second Movement	Margin
Train arrives at North End of the reception	Train arrives at or departs from South end of the reception	3
Train arrives at South End of the reception	Train arrives at or departs from North end of the reception	3

**Ipswich Yard Capacity**

The capacity is controlled by the Ipswich Yard Plan

Note: only the Up and Down Goods Line and No 1 Reception Road are accessible to trains approaching via/ departing towards Stowmarket.

Note: for trains to/from Westerfield only No 2 – 4 Reception Roads are accessible directly from/to the Up East Suffolk Line, trains using the Up and Down Goods Line and No 1 Reception Road must travel via East Suffolk Junction.

**Length Limits**

The table below shows the distance from the signal at one exit to the signal at the other exit from the loop/siding. These lengths do NOT take into account defensive driving policy / stand-back from signals / space required for run-round moves.

Line	Signal From	Signal To	Length
Up and Down Goods Line	CO322	CO337	87 SLUs / 562m
No 1 Reception	GPL 812	CO341	111 SLUs / 712m
No 2 Reception	GPL 814	CO827	125 SLUs / 801m
No 3 Reception	GPL 816	CO829	108 SLUs / 696m
No 4 Reception	GPL 818	CO825	69 SLUs / 444m

**East Suffolk Junction****Adjustments to Sectional Running Times**

Movement	Timing Load	Reason	Allowance
All trains which have departed from Ipswich SS or travelled via the Down & Up Goods line	Freight trains up to 1800t/TR100 inclusive	Speed Differential	{1½} approaching Europa Junction
	Freight trains over 1800t/TR100 (exclusive)	Speed Differential	{1} approaching Europa Junction

**Adjustments to Sectional Running Times for timing loads shown in the Up Direction between Stowmarket and Ipswich East Suffolk Junction for trains which will be travelling to Ipswich SS or via DUL**

Movement	Reason	Allowance
Up Freight Trains	Speed differential	{1½}

**Junction Margin**

Movement	Margin
Fouling move	3
Before divergence of following move	3
After merge	3

<b>Europa Junction</b>			
<b>Adjustments to Sectional Running Times</b>			
<b>Movement</b>	<b>Timing Load</b>	<b>Reason</b>	<b>Allowance</b>
Applicable to timing loads shown for trains which have departed from Ipswich SS or have travelled via the Down & Up Goods line, to be applied after Europa Junction approaching next timing point	Class 6 1600t to 1800t inclusive & TR100	Speed Differential	{½}
	Class 6 2000t to 2200t inclusive & TR115	Speed Differential	{1}
	Class 6 over 2200t (exclusive) & TR130	Speed Differential	{1½}
	Class 4 over 1600t (exclusive)	Speed Differential	{½}
Applicable to Down direction freight trains from Boss Hall Junction	Class 6 over 1400t (exclusive) & TR100 and above	Speed Differential	{½}
	Class 4 over 800t (exclusive)	Speed Differential	{½}
<b>Junction Margins</b>			
<b>First Movement</b>	<b>Second Movement</b>		<b>Margin</b>
First Train passes Europa Junction towards Stowmarket	Freight train from Westerfield passes Europa Junction towards Stowmarket.		3

<b>Stowmarket</b>			
<b>Adjustments to Sectional Running Times</b>			
<b>Movement</b>	<b>Reason</b>		<b>Allowance</b>
Up train arriving in Platform 2	Via slow speed crossover		{1}
Up train departing from Platform 2 to Up Main	Via slow speed crossover		{1} approaching next timing point
<b>Dwell Time</b>			
All passenger services			1

<b>Haughley Junction</b>			
<b>Adjustments to Sectional Running Times</b>			
<b>Movement</b>	<b>Timing Load</b>	<b>Reason</b>	<b>Allowance</b>
Down pass towards Bury St Edmunds	Freight Trains	Speed differential and approach control	{1}
Applicable to Up direction passing moves from the Bury St Edmunds direction, to be applied at the next timing location	Class 6 up to 1600t/TR90 (inclusive)	Speed Differential	{½}
	Class 6 over 1600t/TR90	Speed Differential	{1}
	Class 4 under 600t/TR30	Speed Differential	{½}
	Class 4 600t/TR30 to 1235t/TR70 (inclusive)	Speed Differential	{1}
	Class 4 over 1235t/TR70	Speed Differential	{1½}
<b>Junction Margins</b>			
<b>Movement</b>			<b>Margin</b>
Fouling move			3
Before divergence of following move			3

<b>Diss</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Allowance</b>
Down train arriving in Platform 1 (Up Platform)	Via slow speed crossover	{1}
Down train departing from Platform 1 (Up Platform) to Down Main	Via slow speed crossover	{1} approaching next timing point
<b>Dwell Time</b>		
All passenger services		1
<b>Terminal Lengths</b>		
Up Through Siding		23 SLUs
Headshunt		57 SLUs

<b>EA1013 TROWSE JUNCTION TO NORWICH</b>		
<b>Trowse</b>		
<b>Restriction</b>		
Trowse Yard can only accommodate one train at a time – single train working. Light engine movements to be treated as an exception to this, i.e. light engines are permitted to depart and arrive when there is a set of wagons already in the sidings.		
Trains departing Trowse towards Trowse Jn (EA1012 or EA1580) require a run-round move to be included in the schedule. The loco will use the Up Main for this movement so there must be a suitable train slot between other booked services.		

<b>Trowse Swing Bridge</b>		
<b>Junction Margin</b>		
Between all opposing movements		3

<b>Wensum Curve</b>		
<b>Standage Length</b>		
Through Siding		40 SLUs
<b>Junction Margins</b>		
Trains longer than 40 SLUs stopped at Wensum Junction may foul Trowse Swing Bridge. In this circumstance the junction margin at Trowse Swing Bridge applies between the departure time for the first train departing Wensum Junction and the passing time of the second train at Trowse Swing Bridge.		

<b>Norwich Thorpe Junction</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Value</b>
Departure from Norwich passes Thorpe Junction	Conflicting movement towards Norwich	1½

<b>Norwich Thorpe Junction</b>		
<b>Standage Length</b>		
Line C	From CO566 to CO567 clear of 2857 pts From CO567 clear of 2848pts at Swing Bridge	25 SLU 160m 36 SLU 228m
Line D	From CO564 to CO565 clear of 2858B pts From CO565 clear of 2849pts at Swing Bridge	35 SLU 221m 44 SLU 279m

<b>Norwich Goods Yard</b>		
<b>Note:</b> The sidings on the down (south) side of Norwich station may be shown differently in different documents. The Goods Yard (Thorpe Yard / Riverside Freight Depot) is not electrified and refers to the sidings where CO570 signal is the departure signal. (Tiplocs NRCHTC, NRCHGBF).		
Terminal Length		37 SLUs

<b>Norwich Low Level Sidings and Norwich Royal Dock</b>		
<b>Note:</b> The remaining sidings on the down side where CO572 signal is the departure signal are collectively known as Norwich Low Level Sidings. Only the Royal Dock (Siding 1) and Siding 2 are electrified. Please use “Norwich Royal Dock” (tiploc NRCHDK) if planning electric trains in this area. Otherwise please use “Norwich Low Level” (tiploc NRCHLL). Norwich Station Jubilee Carriage Sidings are on the up side of the station and not electrified.		

<b>Norwich</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Value</b>
Train departs P4, 5 or 6 on E line towards Whitlingham Jn	Train departs P4, 5 or 6 on C line to Trowse Swing Bridge	2
Train departs P4, 5 or 6 on C line to Trowse Swing Bridge	Train departs P4, 5 or 6 on E line towards Whitlingham Jn	2
Arrival	Conflicting departure	1
Departure	Next arrival into same or conflicting platform	4
<b>Minimum Turnrounds</b>		
East Midlands Railway services – Passenger to Passenger		18
Class 745 Liverpool St IC Passenger to ECS		10
Class 745 ECS to Liverpool St IC Passenger		10
Class 745 Liverpool St IC Passenger to Liverpool St IC Passenger		20
Class 755		5
<b>Length Limit</b>		
Middle siding	One train to be stabled at a time as walking route available at country end buffer stop only	198m
<b>Restriction</b>		
Class 755s in electric mode (Timing Load 755-E) are not to use Platform 6 at Norwich (unwired)		
<b>Splitting and Coupling of trains permitted</b>		
In all platforms		

**EA1020 CARPENTERS ROAD SOUTH JUNCTION TO CARPENTERS ROAD  
NORTH JUNCTION****Access Restriction to Carpenters Road  
Curve**A train standing in Channelsea Loop prevents  
access to Carpenters Road Curve**Restriction**

Trains cannot be held on Carpenters Road Curve due to interlocking limitations.

**EA1030 FOREST GATE JUNCTION TO WOODGRANGE PARK JUNCTION****Standage Lengths - this length does not take into account any stand back from the signal**

Woodgrange Park Down Branch Clear of Forest Gate Jn

51 SLUs

Forest Gate Jn Up Branch Clear of Woodgrange Park Jn

51 SLUs

**Where timing allowances or stops are applied in this section for exceeding the lengths shown above the  
below must be noted**Timing allowances/stops at Forest Gate Jn in Up  
servicesThe train will foul Woodgrange Park Jn until it has passed  
Forest Gate JnTiming allowances/stops at Woodgrange Park Jn in  
Down servicesThe train will foul Forest Gate Jn until it has passed  
Woodgrange Park Jn**EA1040 ROMFORD TO UPMINSTER****Romford**

Single Line reoccupation

10

**EA1050 SHENFIELD JUNCTION TO SOUTHEND VICTORIA****Billericay****Dwell time**

1 AM/PM peak

**Splitting and Coupling of trains permitted**Detaching of units permitted in Down Platform 2, down direction  
only. Attaching is not permitted in any platform.**Wickford****Adjustments to Sectional Running Times****Movement**Up trains from Southminster formed of 10/12  
car EMU trains**Reason**

Operating on reduced power

**Allowance**

{1}

**Connectional Allowance**

2

**Dwell time**

1 AM/PM peak

<b>Wickford</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Depart to Southminster	Depart to Southend	2
Depart to Southend	Depart to Southminster	2
<b>Splitting and Coupling of trains permitted</b>		Detaching of units permitted in Down Platform 2, down direction only. Attaching is not permitted in any platform.

<b>Hockley</b>	
<b>Splitting and Coupling of trains permitted</b>	
Detaching of units permitted in Down Platform 2, down direction only. Attaching is not permitted in any platform.	

<b>Prittlewell</b>		
<b>Operating Restrictions</b>	A train may not depart towards Southend Victoria at the same time as one is leaving from Southend Victoria Platforms 1 and 2 or Down Carriage Siding South towards Prittlewell due to ARS being unable to set the route from L625 signal to L629 signal, due to the reduced overlap	Departure to be 1 minute later than train from Southend Victoria

<b>Southend Victoria</b>		
<b>Other restrictions</b>	Off Peak trains to use Platforms 2 or 3 where possible (to enable access to CET facilities)	
<b>Operating Restrictions</b>	A train from Platforms 1 or 2 or the Down Carriage Sidings South must depart at least 1 minute prior to a departure from Prittlewell towards Southend Victoria due to ARS being unable to set the route from L625 signal at Prittlewell station to L629 signal due to the reduced overlap	Departure to be at least 1 minute earlier than train from Prittlewell
<b>Splitting and Coupling of trains permitted</b>		In all platforms for use for class 1, 2, 3 ECS, 5, 9 and 0

<b>EA1060 WICKFORD JUNCTION TO SOUTHMINSTER</b>	
<b>South Woodham Ferrers</b>	
<b>Dwell Time</b>	
Up Liverpool St services	1 AM peak

<b>North Fambridge</b>	
<b>Single Line Crossing</b>	First train arrives at xx and departs xx +01 Second train arrives xx +00½ and departs xx +01

<b>Southminster</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Allowance</b>
Down trains arriving formed of 10/12 car EMU trains	Operating on reduced power	{1}
Southminster Platform Reversing Moves		26 SLUs

<b>EA1080 MARKS TEY JUNCTION TO SUBBURY</b>	
<b>Sudbury</b>	
<b>Minimum Turnround Time</b>	5 Class 755

<b>EA1090 COLCHESTER JUNCTION TO CLACTON-ON-SEA</b>	
<b>Wivenhoe</b>	
<b>Connectional Allowance</b>	3
<b>Dwell Time</b>	
Up Liverpool St services	1 AM peak

<b>Thorpe-le-Soken</b>		
<b>Connectional Allowance</b>	1	
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Value</b>
Train arrives in platform 1 or 2 from Colchester	Train arrive opposite platform from Colchester	3½
Train arrives in platform 1 from Colchester	Train departs platform 2 to Colchester	1
Train departs platform 1 or 2 towards Clacton	Train departs from opposite platform towards Walton	1½
Train departs from platform 1 or 2 towards Walton	Train departs from opposite platform towards Clacton	1½
Train arrives in platform 1 from Walton	Train departs platform 2 towards Clacton or Walton	1
Train arrives in platform 2 from Clacton or Walton	Train departs platform 1 towards Clacton or Walton	1
<b>Platform reoccupation</b>		3

<b>Clacton-on-Sea</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Allowance</b>
Arrival into platform 3 or 4	Approach control	{½}
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Departure	Conflicting arrival	4

<b>Clacton-on-Sea</b>	
<b>Splitting and Coupling of trains permitted</b>	In all platforms Class 720s may only split / attach in Platforms 2 and 4

<b>EA1110 THORPE-LE-SOKEN JUNCTION TO WALTON-ON-THE-NAZE</b>	
<b>Kirby Cross</b>	
<b>Single Line Crossing</b>	First train arrives at xx and departs xx +03½. Second train arrives xx +02½ and departs xx +03

<b>EA1120 MANNINGTREE TO HARWICH TOWN</b>		
<b>Manningtree North Junction</b>		
<b>Standage Length</b>		
Manningtree North Junction	North Curve Clear of Manningtree East Junction	32 SLUs 205m

<b>Manningtree East Junction</b>		
<b>Standage Length</b>		
Manningtree East Junction	North Curve Clear of Manningtree North Junction	32 SLUs 205m
Note: Trains towards Manningtree North Junction, and in excess of the standage on the North Curve (32 SLUs), are to be held at this location if required.		
Note: For ARS regulating purposes an Arr and Dep time are to be shown and NOT pathing ( ) time, with an A in the Location Activity field		

<b>Up Tip Sidings</b>			
<b>Siding</b>	<b>Length (m)</b>	<b>Length (SLUs)</b>	<b>Comment</b>
1	462	72	
2	388	60	
3	388	60	

<b>Parkeston New Yard</b>			
<b>Siding</b>	<b>Length (m)</b>	<b>Length (SLUs)</b>	<b>Comment</b>
1	200	31	
2	220	34	
3	250	39	
4	300	46	
5	340	53	
6	270	42	
7	270	42	
8	325	50	
9	273	42	
10	338	52	Can accommodate up to 395m/61SLU by fouling No11 Siding
11	338	52	Can accommodate up to 395m/61SLU by fouling No10 Siding
12	485	75	

<b>Parkeston Carriage Sidings</b>			
<b>Siding</b>	<b>Length (m)</b>	<b>Length (SLUs)</b>	<b>Comment</b>
1	365	57	*Can accommodate up to 523m/81SLU by fouling No2 Siding
2	365	57	*Can accommodate up to 523m/81SLU by fouling No1 Siding
3	512	79	
4	335	52	
5	300	46	
6	300	46	

<b>Harwich International</b>	
<b>Single Line Reoccupation</b>	<b>Margin</b>
Reoccupation of single line towards Harwich Town	4

<b>EA1160 BETHNAL GREEN EAST JUNCTION TO BISHOP'S STORTFORD</b>		
<b>Bethnal Green</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Depart/Pass Bethnal Green from Down Suburban to Down Fast	Arrive/Pass Bethnal Green from Up Suburban	3
Arrive/Pass Bethnal Green from Up Suburban	Depart/Pass Bethnal Green from Down Suburban to Down Fast	1
Pass Bethnal Green from Down Main to Down Fast	Arrive/Pass Bethnal Green from Up Fast to Up Suburban	3
Arrive/Pass Bethnal Green from Up Fast to Up Suburban	Pass Bethnal Green from Down Main to Down Fast	1

<b>London Fields</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
For trains that have reversed at London Fields Platform 1 towards Hackney Downs	Slow speed move over crossover from Up Suburban to down Suburban	{½}

<b>Hackney Downs</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Trains crossing from Down Fast Line to Down Slow at Hackney Downs South Junction (for platform 4 Hackney Downs)	Via slow speed crossover	{1}
Trains from Platform 4 at Hackney Downs travelling towards Clapton via Hackney Downs North Junction. To be shown approaching next timing point	Via slow speed crossover	{½}

<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Value</b>
Down train depart/pass Platform 4 towards Clapton	Up train arrive/pass Platform 3 from Seven Sisters. (Trains which have called at Rectory Road can be planned at a 2 minute margin).	3
Up train arrive/pass Platform 3 from Seven Sisters direction	Down train depart/pass Platform 4 towards Clapton Junction	1

<b>Coppermill Junction</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Down train from Temple Mills East Junction direction	Up train towards Clapton Junction	3
Up train towards Clapton Junction	Down train from Temple Mills East Junction direction	3

<b>Tottenham South Junction</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move except as below		3
Before divergence of following move		3
After merge		3
<b>First Movement</b>	<b>Second Movement</b>	
Passenger train on Down Cambridge Line towards Tottenham Hale	Freight train from South Tottenham	2½

<b>Tottenham Hale</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
All Up trains departing from Down platform	Via slow speed crossover	{½}
<b>Dwell Time</b>		1
<b>Minimum Turnround Time</b>		For EMUs 6
<b>Platform Reoccupation</b>	Minimum time allowed between one train departing and another arriving in the same platform including conflicting movements towards platforms. Subject to future review	2

<b>Cheshunt</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
All trains to Bay Platform 3	Via slow speed crossover	{½}
All trains from Bay Platform 3	Via slow speed crossover	{½} approaching next timing point
All trains via Southbury	Crossing Main Line to Southbury Loop	{½}

<b>Cheshunt</b>		
<b>Dwell Time</b>		
		1 AM peak Cambridge services
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		2
Before divergence of following move		3
After merge		2
<b>First movement</b>	<b>Second movement</b>	<b>Margin</b>
Down train from Lea Valley arrives into Cheshunt platform 2	Up train departs Cheshunt platform 1 towards Southbury	1
Depart Platform 2 via preferred route (route code DS) towards Bury Street Junction	Arrive/Pass Platform 2 or 3 from Bury Street Junction (not having stopped at Cheshunt Junction Signal L1395)	4
Depart Platform 3	Arrive/Pass Platform 2 from Bury Street Junction (not having stopped at Cheshunt Junction Signal L1395)	4
Depart Platform 3	Arrive Platform 3 (not having stopped at Cheshunt Junction Signal L1395)	4
Depart Platform 2 via preferred route (route code DS) towards Bury Street Junction or Depart Platform 3	Arrive/Pass Platform 2 or Arrive Platform 3 from stop at Cheshunt Junction Signal L1395	3
<b>Overlap Restrictions</b>		
<p>If a train is starting from Platform 2 and routed via the preferred route (line code DS) towards Bury Street Junction this will conflict with the overlap of signal L1395 on the Down Southbury approaching Cheshunt, so it is not possible for a train to depart from Theobalds Grove towards L1395. This also applies to a departure from Platform 3 (see margins above).</p> <p>If a train is starting from Platform 2 and routed via the non-preferred route (line code UC) towards Bury Street Junction that this will conflict with the overlap of signal L1060 on Platform 1.</p>		
<b>First movement</b>	<b>Second movement</b>	<b>Margin</b>
Depart Platform 2 via non-preferred route (route code UC) towards Bury Street Junction	Arrive Platform 1 from Broxbourne direction	2
Depart Platform 2 via non-preferred route (route code UC) towards Bury Street Junction	Pass Platform 1 from Broxbourne direction	3

<b>Broxbourne</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
All Up trains departing from Platform 4	Via slow speed crossover	{½}
Up trains routed via Platform 1 from Harlow Town direction	Via slow speed crossover	{1}
Down trains from Platform 4 towards Harlow Town	Via slow speed crossover	{½} approaching next timing point
<b>Dwell Time</b>		
		1 AM/PM peak Cambridge services

<b>Broxbourne</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Arrive platform 1	Pass platform 2	2
Arrive platform 4 or pass platform 4 to down goods loop	Pass platform 3	2
Down passenger pass/arrive platform 3	Up train depart platform 4	1
Down freight pass platform 3	Up train depart platform 4	2
Down train pass platform 3	Down train depart platform 4	2
Up train pass platform 2	Up train depart platform 1 or 4	2
Up train passes platform 2	Up freight departs Up Goods Loop	1½

<b>Broxbourne Junction</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Down trains towards Hertford East	Via slow speed crossover	{½}
Up trains from Hertford East direction	Via slow speed crossover	{1} approaching next timing point
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Down direction train towards Harlow Town	Up direction train from Hertford Branch	2
Up direction train from Hertford Branch	Down direction train towards Harlow Town	2½
Up pass from Harlow Town towards Broxbourne	Up train from Hertford Branch towards Broxbourne	2
Down direction train towards Hertford East	Down direction train towards Harlow Town	2
Down direction train towards Harlow Town	Down direction train towards Hertford East	2

<b>Harlow Town</b>		
<b>Dwell Time</b>		1 AM/PM peak
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Arrive platform 1/4	Pass platform 2/3	2
Pass platform 2/3	Depart platform 1/4	2
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
For trains travelling from Bishop's Stortford only - If the first train is routed into Harlow Mill Freight Yard the second train requires extra time approaching Harlow Mill	Slow movement of first train over Junction into Yard	{2}

<b>Harlow Mill Freight Yard</b>		
Down Trains arriving at Harlow Mill need to reverse in the Down platform in order to gain access to Harlow Mills Freight Yard		
<b>Terminal Length</b>		

<b>Harlow Mill Freight Yard</b>		
Freight Length Restriction	Freight Length Limit	62 SLU
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Allowance between consecutive arrivals		15
<b>Restriction</b>		
Harlow Mill Reception is part of Harlow Mill Freight Yard and cannot be used for pathing stops (A stops) in trains. Trains may only enter Harlow Mill Reception when accepted by groundstaff to serve one of the terminals.		

<b>Bishop's Stortford C.S.</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Pass Bishop's Stortford to Up Main	Conflicting departure from Bishop's Stortford CS towards Bishop's Stortford	1
Depart Bishop's Stortford to Up Main	Conflicting departure from Bishop's Stortford CS towards Bishop's Stortford	1½

<b>Bishop's Stortford</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Up trains from Stansted Mountfitchet direction routed via platform 1 or 3	Via slow speed crossover	{1½}
Up train depart Platform 1 or 3	Via slow speed crossover	{½} approaching next timing point
Down train arrive Platform 2 or 3 (not required from Bishop's Stortford CS)	Via slow speed crossover	{½}
<b>Dwell Time</b>		
		1
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Down train depart from platform 2 or 3	Up train arrive	4
<b>Other Restrictions</b>		
Due to staggered platforms and the location of the crossover, a train occupying Platform 2 will foul points 2627A preventing another train from departing Platform 1 in the Up direction.		
<b>Splitting and Coupling of trains permitted</b>		
	In all platforms	

**EA1161 BISHOP'S STORTFORD TO ELY NORTH JUNCTION****Stansted Mountfitchet****Junction Margins**

First Movement	Second Movement	Margin
Down train pass towards Stansted East Junction	Up train pass from Stansted North Junction	3
Down train pass towards Stansted East Junction	Up train arrive from Stansted North Junction	4
Down train depart towards Stansted East Junction	Up train pass from Stansted North Junction	3½
Down train depart towards Stansted East Junction	Up train arrive from Stansted North Junction	4½
Up train pass from Stansted North Junction	Down train pass towards Stansted East Junction	1
Up train pass from Stansted North Junction	Down train depart towards Stansted East Junction	½
Up train arrive from Stansted North Junction	Down train pass towards Stansted East Junction	½
Up train arrive from Stansted North Junction	Down train depart towards Stansted East Junction	0

**Stansted North Junction****Adjustments to Sectional Running Times**

Movement	Reason	Value
All trains to Stansted East Junction	Approach control	{½}
All trains from Stansted East Junction	Acceleration	{½} after Stansted North Junction

**Junction Margins**

Movement	Margin
Fouling move	3
Before divergence of following move	3
After merge	2

**Audley End**

<b>Dwell Time</b>	1 AM/PM peak
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**Duxford****Terminal Length**

Reception	22 SLUs
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**Shepreth Branch Junction****Adjustments to Sectional Running Times**

Movement	Reason	Allowance
Trains towards Foxton (except trains timed as '387 100' or '700' which include allowance in the SRT)	Approach control	{½}

<b>Shepreth Branch Junction</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move	Up Royston train behind Down Main Line train	2
Fouling move	Down Main Line train behind Up Royston train	3
Before divergence of following move		3
After merge of following move		3

<b>Cambridge Signal CA147</b>	
<b>Standage Length</b>	
Down Slow Standing at CA147 Signal	114 SLUs / 769m
Trains in excess of this length standing at CA147 Signal will prevent any passing movements on the Down Main.	

<b>Cambridge Signal CA149</b>	
<b>Standage Length</b>	
Down Main Standing at CA149 Signal	114 SLUs / 769m
Trains in excess of this length standing at CA149 Signal will prevent any passing movements onto the Down Slow.	

<b>Cambridge Signal CA647</b>	
<b>Restriction</b>	
Class 1, Class 2 & Class 9 services to the through line and platforms 7 & 8 at Cambridge cannot pass a service being held at CA647 as it is a shunt signal only. Where a reversal requires to be held for passing Class 1, Class 2 or Class 9 services Cambridge Signals CA147 or CA149 must be used instead.	

<b>Cambridge Reception Roads 1 &amp; 2</b>	
<b>Junction Margins</b>	
Please apply margins as per Cambridge Reception Sidings Entry	
<b>Standage Lengths</b>	
No 1 Reception	73 SLUs / 467m
No 2 Reception	70 SLUs / 448m

<b>Cambridge Reception Sidings</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Arrival at Cambridge Reception Sidings from the south	Arrival at Cambridge Reception Sidings from the south	5
Departure from Cambridge Reception Sidings towards the south	Departure from Cambridge Reception Sidings towards the south	5

<b>Cambridge Reception Sidings</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Arrival at Cambridge Reception Sidings from the south	Arrival at/departure from Cambridge station	See matrix - treat 1 <sup>st</sup> move as Arr P8S
Departure from Cambridge Reception Sidings towards the south	Arrival at/departure from Cambridge station	See matrix - treat 1 <sup>st</sup> move as Dep P8S
Arrival at/departure from Cambridge station	Arrival at Cambridge Reception Sidings from the south	See matrix - treat 2 <sup>nd</sup> move as Arr P8S
Arrival at/departure from Cambridge station	Departure from Cambridge Reception Sidings towards the south	See matrix - treat 2 <sup>nd</sup> move as Dep P8S
For arrivals at & departures from Cambridge Reception Sidings to/from the north see entry under Cambridge Carriage Sidings North and South		

<b>Cambridge</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Allowance</b>
Trains travelling from Down Main into Platforms 2, 3, 7 and 8	Via slow speed crossovers	{1} {½} GA
Trains travelling from Down Main into Platform 4 via DMT (e.g. when Platform 1 is occupied)	Via slow speed crossovers	{1} * {½} GA
Trains travelling from Platform 1 to Down Main via TL or TLG (e.g. when Platform 4 is occupied)	Via slow speed crossovers	{1} *
Trains travelling from Platforms 7 and 8 to the Down Main	Via slow speed crossovers	{1} {½} 170/755
Trains travelling into Platforms 5 and 6	Approach control	{½}
Trains arriving into an occupied platform	Calling on	{½}
* Not required for GTR services as allowance is included within Sectional Running Time		
<b>Dwell Time</b>	1½ 2 for GTR services 2* XC Class 170	
* May be reduced to 1½ minutes by agreement with CrossCountry		
<b>Minimum Turnround Time</b>	20 desirable for CrossCountry DMUs and Greater Anglia (Norwich Cambridge) services. 5 for Ipswich services 10 minutes for GTR services to / from King's Cross * 12 minutes for Thameslink services to / from Brighton or Three Bridges ^	
* May be reduced to 8 or 9 minutes for 8 car trains by exception and subject to agreement with GTR. ^ May be reduced to 10 or 11 minutes by exception and subject to agreement with GTR.		
<b>Rolling Stock Restrictions – Class 387</b>		
Due to signal sighting issues at signal CA162 at the south end of Cambridge Platform 4, trains formed of 12-car Class 387 rolling stock <i>may only</i> be planned to use Platform 4 when travelling in the Down (northbound direction). A train formed of 12-car Class 387 rolling stock may be split in Platform 4 <i>providing that</i> both portions then depart northbound.		
<b>Splitting and Coupling of trains permitted</b>	In all platforms	

<b>Cambridge</b>	
<b>Attachment of units – for services operated by GTR</b>	
Class 387	6
<b>Detachment of units – for services operated by GTR</b>	
Class 387	5
<b>Cambridge Platform Working Matrix See below</b>	

**Cambridge Platform Working Matrix for Platforms 1 to 8****Departures after arrivals**

When the moves are conflicting at least one minute should be allowed.

Example: arrive Platform 1 10.06; depart Platform 3 10.07 or later.

*Exception when arrival is in Platform 4 from the South, when departures can be at the same time as the arrival.*

**Arrivals after departures**

When the moves are conflicting at least three minutes should be allowed. This also applies for **reoccupation** of the same platform

Example: depart Platform 3 10.27, arrive Platform 2 10.30 or later

	2nd Move →																			
1st Move ↓	Arr P1S	Arr P1N	Arr P2/3	Arr P4S	Arr P4N	Arr P5/6	Arr P7S	Arr P7N	Arr P8S	Arr P8N	Dep P1S	Dep P1N	Dep P2/3 ^	Dep P4S	Dep P4N	Dep P5/6	Dep P7S	Dep P7N	Dep P8S	Dep P8N
Arr P1S	-	3	H	H	3*	P	H	P	H	P	-	-	1	2**	P	P	P	P	P	P
Arr P1N	3	-	P	3	H	H	P	H	P	H	-	-	P	2	P	P	P	S	P	S
Arr P2/3	H	P	-	H	P	P	H	P	H	P	P	P	1	P	P	P	P	P	P	P
Arr P4S	H	3#	H	-	3	3\$	H	P	H	P	S	2	S	-	-	2\$	S	P	S	P
Arr P4N	3*	H	P	3	-	H	P	H	P	H	P	2##	P	-	-	1	P	S	P	S
Arr P5/6	P	H	P	3\$	H	-	P	H	P	H	P	2	P	P	2	2	P	S	P	S
Arr P7S	H	P	H	H	P	P	-	5	H	P	S	P	S	S	P	P	-	-	1	P
Arr P7N	P	H	P	P	H	H	5	-	P	3	P	P	P	P	P	P	-	-	P	1
Arr P8S	H	P	H	H	P	P	H	P	-	5	S	P	S	S	P	P	1	P	-	-
Arr P8N	P	H	P	P	H	H	P	H	5	-	P	P	P	P	P	P	P	1	-	-
Dep P1S	3	3	P	3	P	P	4	P	4	P	-	S~	H	H	P	P	2%	P	2%	P
Dep P1N	3	3+	P	3	3	3	P	P@	P	P@	S~	-	P	2	5	3@	P	H	P	H
Dep P2/3^	3	P	3	3&	P	P	4	P	4	P	H	P	-	H	P	P	2%	P	2%	P
Dep P4S	3**	3	P	3	3	P	4	P	4	P	H	2	H	-	S~	P	2%	P	2%	P
Dep P4N	P	P	P	3	3	3	P	P	P	P	P	H	P	S~	-	H	P	H	P	H
Dep P5/6	P	P	P	3\$	3	3	P	P	P	P	P	H	P	P	H	-	P	H	P	H
Dep P7S	P	P	P	P"	P	P	4	3	4	P	H	P	H	H	P	P	-	S~	H	P
Dep P7N	P	5	P	P	5	5	3	5	P	5	P	4	P	P	4	4	S~	-	P	H
Dep P8S	P	P	P	P"	P	P	4	P	4	2	H	P	H	H	P	P	H	P	-	S~
Dep P8N	P	4	P	P	4	4	P	5	3	5	P	4	P	P	4	4	P	H	S~	-

<b>Notes:</b>	
H	As per normal headway
P	Parallel or non conflicting
S	Simultaneous moves
*	If there is already a train standing in either of these platforms adjacent to the scissors crossover, a further train may be admitted behind it at the same time as one is signalled into the through platform from the other end
**	If there is already a train in platform 1 adjacent to the scissors crossover the margin reduces to P
#	May be reduced to 2 minutes if platform 4 arrival is via platform 1
##	If there is already a train in platform 4 adjacent to the scissors crossover the margin reduces to P
\$	If there is a train standing at the north end of platform 4 the margin reduces to P
~	Wherever possible this move should be avoided and consideration given to the flow of passengers
%	Headway to be restored at Shepreth Branch Junction
@	Increases to 4 minutes if there is a train standing in platform 4
+	Increases to 5 minutes if there is a train standing in platform 4
"	Increases to 4 minutes if there is a train standing in platform 1
&	Increases to 5 minutes if there is a train standing in platform 1
^	There is an independent route between platforms 2 & 3 and the Down Slow Loop, parallel to any moves from platforms 1 or 4

<b>Mill Road Junction</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Movement across Mill Road Junction	Conflicting movement passes/departs previous timing point	2
Arrival at Cambridge from Coldham Lane Junction	Movement across Mill Road Junction towards Cambridge Carriage Sidings North	3

<b>Cambridge Carriage Sidings North</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Depart Cambridge platform 7 or 8 to South	Depart from Cambridge Carriage Sidings North routed via PL (CA710) to same platform at Cambridge	1
Arrive Cambridge platform 7 from the North	Depart from Cambridge Carriage Sidings North routed via PL (CA710) to platform 8 at Cambridge	0
Arrive Cambridge platform 8 from the North	Depart from Cambridge Carriage Sidings North routed via PL (CA710) to platform 7 at Cambridge	0
Depart or Arrive Cambridge	Arrive at Cambridge from Cambridge Carriage Sidings North routed via UM/UM4/UMT (CA180) to any platform at Cambridge	See matrix at Cambridge

<b>Coldham Lane Junction</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Allowance</b>
Trains towards Dullingham	Approach control	{½}
Trains from Dullingham	Not at line speed	{½} approaching next timing point
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Train towards Dullingham	Train towards Cambridge	3
Train towards Cambridge	Train towards Dullingham	2

<b>Chesterton Junction</b>		
<b>Terminal Length</b>		
Arrival/Departure		60 SLUs

<b>Cambridge North</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	
Trains travelling from Down Main into Bay Platform 3	Approach control	{1}
Trains departing Bay platform 3 towards Cambridge	To allow for slow speed crossover. Adjustment time to be shown approaching next timing point	{1}
Trains departing platform 2 towards Cambridge	To allow for slow speed crossover. Adjustment time to be shown approaching next timing point	{1}
Trains arriving from Ely into platform 2	To allow for slow speed crossover. Adjustment time to be shown approaching Cambridge North	{½}
<b>Dwell time</b>		
	All	1
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	
Pass / depart platform 1 from Ely	Depart Bay platform 3 towards Cambridge	3
Pass / arrive platform 2 from Cambridge	Depart Bay platform 3 towards Cambridge	1
Arrive Bay platform 3 from Cambridge	Depart platform 2 towards Cambridge	1
Depart Bay platform 3 or depart platform 2 towards Cambridge	Arrive platform 1 from Ely	P
Depart Bay platform 3 or depart platform 2 towards Cambridge	Depart / pass platform 1 from Ely	4
Depart Bay platform 3 towards Cambridge	Pass / arrive platform 2 from Cambridge	4
Depart platform 2 towards Cambridge	Arrive Bay platform 3 from Cambridge	4
Arrive Bay platform 3 from Cambridge	Pass / arrive platform 2 from Cambridge	3
Depart platform 2 towards Ely	Arrive platform 2 from Ely	5*
*platform reoccupation of platform 2 when services from Ely terminate at Cambridge North		
Depart platform 2 towards Ely	Freight service depart / pass towards Ely (exit Chesterton Junction yard/sidings)	2½
Freight service arrive / pass from Ely (arrive yard sidings)	Pass / arrive platform 2 from Cambridge	3½
<b>Notes</b>		
P = Parallel/Non-conflicting		
<b>Reoccupation of Bay Platform 3</b>		
		5
<b>Permissive Working Restrictions</b>		
Permissive working is permitted in Cambridge North Platform 3 subject to the below restrictions:		
<b>Attaching</b>	A train of up to 8-cars can be attached to a 4-car train in platform 3. The 4-car train must have arrived first. A 4-car train cannot be attached to an 8-car train due to the position of the track circuits.	
<b>Platform Sharing</b>	A second train of up to 8-cars can arrive in platform 3 if the first train in the platform is no longer than 4-cars.	
<b>Detaching</b>	Permitted.	

### Ely Down Goods Loop

**Note:** Trains which will enter Ely Down Goods Loop in the Up Direction must have a dwell time of 2 minutes in Ely Platform 1 to enable the route to be set for the train to enter the Down Goods loop

<b>Ely Dock Junction</b>		
<b>Note:</b> It is not permissible for trains to have pathing, engineering or performance allowances between Ely Dock Junction and Ely station in either direction as there are no signals in this section.		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move except as shown below		3
<b>First Movement</b>	<b>Second Movement</b>	
Train on Up Main towards Coldham Lane Junction	Train from Down and Up Bury single	2

<b>Ely</b>		
<b>Note:</b>		
Platform 1 at Ely can only be accessed from Ely North Junction via the Down Line. Up trains using Platform 1 conflict at Ely with Down train departures/passes from platforms 2 or 3 unless these are routed via UL.		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Up departure from platform 1 or 3 towards Waterbeach	40mph crossover speed at Ely Dock Junction / Line speed through platform 3	{ $\frac{1}{2}$ } approaching Waterbeach
<b>Connectional Allowance</b>		
	6	
<b>Dwell Time – minimum</b>		
	1	
<b>Minimum Turnround Time</b>		
	4 10 minutes for GTR services to / from King's Cross *	
* May be reduced to 9 minutes by exception and subject to agreement with GTR		
<b>Attachment/Detachment of Units</b>		
DMUs attach/detach on through service	6	
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Up train arrives Platform 2 or 3 from Ely North Junction	Down train departs Platform 2 or 3	1
Down train arrives Platform 2 or 3 from Ely Dock Junction	Up train departs Platform 1, 2 or 3	Same time (0)
<b>Permissive Working Rules</b>		
<b>First Move</b>	<b>Second Move</b>	<b>Allowance</b>
Train arrives in platform 2	Second train arrives permissively in platform 2	3
Train arrives in platform 3	Second train arrives permissively in platform 3	3
Train departs platform 2	Train departs platform 2 in opposite direction or northbound via different line	2
Train departs platform 3	Train departs platform 3 in opposite direction or northbound via different line	2
<b>Splitting and Coupling of trains permitted</b>		
	In all platforms	

<b>Ely Papworth Sidings</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Allowance</b>
Trains propelling into Ely Papworth Sidings from Ely North Junction	Reduced speed of propelling movement	{3}
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Train arrives at Ely Papworth Sidings	Conflicting movement pass Ely North Junction	3
Conflicting passenger movement pass Ely North Junction	Train timed to depart/pass Ely North Junction towards Ely Papworth Sidings	1
Conflicting freight movement pass Ely North Junction	Train timed to depart/pass Ely North Junction towards Ely Papworth Sidings	2

<b>Ely North Junction</b>		
<b>Adjustments to Sectional Running Times</b>		
Trains travelling towards King's Lynn, Middleton Towers or Norwich via Ely West Curve	To allow for slow speed crossover off curve approaching Ely North Junction, adjustment time to be shown approaching the next timing point on EA1162 or EA1580 as appropriate	{2}
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
All fouling moves		3
<b>Exceptions to the above;</b>		
<b>First movement</b>	<b>Second movement</b>	
Pass Ely North Junction	Depart Ely West Curve onto down Norwich/King's Lynn	2
Pass Ely North Junction	Pass Ely West Curve onto down Norwich/King's Lynn	4

<b>EA1162 ELY NORTH JUNCTION TO KING'S LYNN</b>		
<b>Littleport Signal L24</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Pass/arrive Littleport from King's Lynn	Depart towards King's Lynn	Simultaneous

<b>Littleport</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Pass/arrive from King's Lynn	Depart towards King's Lynn (Not stopping at Littleport Signal L22)	1
Pass/arrive from King's Lynn	Pass towards King's Lynn (Not stopping at Littleport Signal L22)	2
Arrive / pass Downham Market from Littleport	Depart / pass Littleport towards Downham Market	Same time (0)

<b>Littleport</b>
<b>Restriction</b>
Down direction trains which exceed the platform length (167m) must not be held in the station for pathing purposes. Trains no longer than 300m in length may be held at Littleport Signal L22 instead. Trains longer than 300m in length must be held at Littleport Signal L24. This is due to the risk of fouling the level crossing immediately south of Littleport station.

<b>Littleport Signal L22</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Pass/arrive Littleport from King's Lynn	Depart to King's Lynn	1

<b>Downham Market</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Pass / arrive from Ely	Depart to Ely	1
Pass / arrive from Ely	Pass to Ely	2
Arrive / pass Littleport from Downham Market	Depart / pass Downham Market towards Littleport	Same time (0)

<b>Watlington Signal MR2</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Pass/arrive Watlington from King's Lynn	Depart towards King's Lynn not stopping at Watlington	Simultaneous

<b>Watlington</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Pass/arrive from King's Lynn	Depart to King's Lynn	1
Pass/arrive from King's Lynn	Pass to King's Lynn	2
<b>Restriction</b>		
Trains to be held at Watlington Signal MR2 instead of Watlington if dwell longer than one minute is required for pathing purposes. This is due to level crossing risk at Watlington.		

<b>King's Lynn Stabling Siding</b>	
<b>Length Limit</b>	188m

<b>King's Lynn Junction</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Freight train pass to King's Lynn T.C. from Watlington	Passenger depart King's Lynn station / King's Lynn C.S.	3
ECS arrive King's Lynn Stabling Siding	Depart King's Lynn / King's Lynn T.C. to Watlington	Same time (0)

<b>King's Lynn T.C.</b>	
<b>Terminal Lengths</b>	
King's Lynn T.C. Arrival	60 SLUs

<b>King's Lynn</b>	
<b>Junction Margins</b>	
<b>Movement</b>	<b>Margin</b>
Departure following arrival	1
<b>Minimum Turnround Time</b>	10 minutes for GTR services to / from King's Cross *
* May be reduced to 9 minutes by exception and subject to agreement with GTR	
<b>Splitting and Coupling of trains permitted</b>	In all platforms

<b>EA1170 HACKNEY DOWNS NORTH JUNCTION TO ENFIELD TOWN</b>		
<b>Seven Sisters</b>		
<b>Dwell Time</b>	London Overground only	1 all day
	All other operators	1 AM/PM peak
<b>Platform Reoccupation</b>		2½
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Between all moves		3
<b>First Movement</b>	<b>Second Movement</b>	
Departure of down train (8 car) which has reversed south of Seven Sisters on Up Southbury	Arrival of Up train	1

<b>Edmonton Green</b>		
<b>Dwell Time</b>		1 AM/PM peak

<b>Bury Street Junction</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		2½ *
Before divergence of following move		3
After merge		2½
*3 minutes applies if second train has come from Enfield Town and does not stop at Bush Hill Park		

<b>Enfield Town</b>		
<b>Length Limit</b>	Platform 3 RR using Ground Frame	24 SLUs

<b>Enfield Town</b>		
<b>Platform 3</b>	Planning rules for this platform will be shown here when they are confirmed	
<b>Splitting and Coupling of trains permitted</b>	Detaching in all platforms but there is no facility for attaching except by shunting from another platform	
<b>Platform Reoccupation</b>		
Platform 1		4
Platform 2		4

<b>EA1180 READING LANE JUNCTION TO NAVARINO ROAD JUNCTION</b>		
<b>Standage Lengths</b>		
Navarino Road Junction – Graham Road Curve (Clear of Reading Lane Junction)		31 SLUs
Reading Lane Junction – Graham Road Curve (Clear of Navarino Road Junction)		31 SLUs
<b>Restrictions</b>		
Trains longer than 31 SLUs stopped at Navarino Road Junction will foul the Down Suburban Line. In this circumstance the headway at London Fields (or nearest timing point if second train is not stopping) applies between the departure time for the first train departing Navarino Road Junction and the time of the second train at London Fields (or nearest timing point).		
Trains longer than 31 SLUs stopped at Reading Lane Junction will foul the North London Line. In this circumstance the junction margin and headway at Navarino Road Junction applies between the departure time for the first train departing Reading Lane Junction and the passing time of the second train at Navarino Road Junction.		

<b>EA1190 BURY STREET JUNCTION TO CHESHUNT JUNCTION</b>		
<b>Cheshunt Junction Signal L1395</b>		
<b>Overlap Restrictions</b>		
Both 2687B points and 2545A points are within the overlap of Cheshunt Junction Signal L1395 so the below margins apply for arriving at Cheshunt Junction Signal L1395 following movements over these points or crossing these points following an arrival at Cheshunt Junction Signal L1395.		
<b>First movement</b>	<b>Second movement</b>	<b>Margin</b>
Depart Platform 2 via preferred route (route code DS) towards Bury Street Junction or Depart Platform 3	Arrive Cheshunt Junction Signal L1395	3
Arrive Cheshunt Junction Signal L1395	Depart Platform 2 via preferred route (route code DS) towards Bury Street Junction or Depart Platform 3	2

<b>EA1200 CLAPTON JUNCTION TO CHINGFORD</b>		
<b>Walthamstow Central</b>		
<b>Dwell Time</b>		1

<b>Chingford</b>		
<b>Junction Margin</b>		
All arrivals after conflicting departures 3½ except below		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Depart Platform 2	Arrive Platform 2	3
Depart Platform 1	Arrive Platform 1	3
<b>Splitting and Coupling of trains permitted</b>		
In all Platforms		

<b>EA1210 BROXBOURNE JUNCTION TO HERTFORD EAST</b>		
<b>Hertford East</b>		
<b>Splitting and Coupling of trains permitted</b>		
In all Platforms		
<b>Length Limits</b>		
Platform 1 and 2 Reversing Moves		50 SLUs
<b>Platform Reoccupation</b>	Platform 2	3

<b>EA1220 STANSTED SOUTH &amp; NORTH JUNCTIONS TO STANSTED AIRPORT</b>		
<b>Stansted East Junction</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Trains to Stansted North Junction	Approach control	{½} 170 only
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Pass to Cambridge Chord	Pass from Stansted Mountfitchet (having stopped there)	2½
Pass to Cambridge Chord	Pass from Stansted Mountfitchet (not having stopped there)	2
Pass from Stansted Mountfitchet	Pass to Cambridge Chord	1½

<b>Tye Green Junction</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		2

<b>Coopers Lane Junction</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Pass from single line	Pass/Depart from Coopers Lane Junction to single line	2
For ARS regulating purposes for trains towards the single line ARR and DEP times with activities A and * to be used and not pathing time.		

**Stansted Airport Signal L1201**

For ARS regulating purposes for trains towards Stansted Airport on the Arrival Line ARR and DEP times with activities A and \* to be used and not pathing time.

**Stansted Airport Signal L1143**

For ARS regulating purposes for trains towards Stansted Airport on the Departure Line ARR and DEP times with activities A and \* to be used and not pathing time.

**Stansted Airport****Junction Margin**

First Movement	Second Movement	Margin
Arrival	Departure conflicting at Stansted Airport throat	Simultaneous
Departure	Arrival conflicting at Stansted Airport throat, including reoccupation of same platform	4

**Minimum Turnround Time** 20 desirable for DMUs

**Permissive Working Instructions**

Splitting and Coupling of trains permitted	In all platforms
Platform Sharing	3/4 car trains must NOT be planned on top of 10/12 car trains in Platform 1 at Stansted Airport. However, 10/12 car trains may be planned on top of 3/4 car trains.

**Length Limits**

Platforms 1 and 3 Reversing Moves 67 SLUs

**EA1230 ROYSTON TO SHEPRETH BRANCH JUNCTION****Royston**

See entry under LN125 within LNE Timetable Planning Rules

**Foxton Exchange Sidings****Terminal Lengths**

Exchange Sidings – there are three sidings which are 75 SLU, 66 SLU and 66 SLU. Please note that these are part of the terminal and are not Network Rail infrastructure.

**Foxton****Adjustments to Sectional Running Times**

Movement	Reason	Value
Down freight from Foxton Exchange Sidings pass to Shepreth Branch Junction	Acceleration	{1} approaching next timing point
Up freight to Foxton Exchange Sidings pass from Shepreth Branch Junction	Via slow speed crossover	{1}

<b>Foxton</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Freight departs Foxton Down platform in the Up direction towards Royston	Down non-stop train passes Foxton	4
Freight departs Foxton Down platform in the Up direction towards Royston	Down stopping service arrives at Foxton	3½
Freight departs Foxton Down platform in the Up direction to Foxton Exchange Sidings	Down non-stop train passes Foxton	7
Freight departs Foxton Down platform in the Up direction to Foxton Exchange Sidings	Down stopping services arrives at Foxton	6½
Up train non-stop to Royston passes Foxton	Freight departs Foxton Down platform in the Up direction towards Royston	2
Up passenger departs Shepreth Station	Freight departs Foxton Down platform in the Up direction towards Royston	2
Down non-stop train passes Foxton	Freight arrives at Foxton from Foxton Exchange Sidings	5½
Down train departs Foxton	Freight arrives at Foxton from Foxton Exchange Sidings	6½
Down train pass/depart Foxton	Down Freight from Foxton Exchange Sidings pass towards Cambridge	3

<b>EA1270 KING'S LYNN JUNCTION TO MIDDLETON TOWERS</b>
<b>Middleton Towers</b>
<b>Restriction</b>
Middleton Towers can only accommodate one train at a time – single train working. Light engine movements to be treated as an exception to this, i.e. light engines are permitted to depart and arrive when there is a set of wagons already in the sidings.

<b>EA1280 STRATFORD CENTRAL JUNCTION TO COPPERMILL JUNCTION</b>
<b>Stratford Station</b>
See entry on Route EA1010 Liverpool Street to Seven Kings

<b>Temple Mills East Junction</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Reoccupation of Down Temple Mills Line	This allowance applies to Up Trains which will pass through Stratford Platform 12 Note this allowance will continue to apply after the re signalling for this route has been commissioned	3

<b>Ruckholt Road Jn</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second movement</b>	<b>Value</b>
Pass towards Orient Way CS	Next train pass towards Orient Way CS	3*
* A third movement requires an increased margin of 7 minutes		

<b>Orient Way CS</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Value</b>
Arrival at Orient Way CS from Stratford	Next arrival at Orient Way CS from Stratford	5*
Departure from Orient Way Reception Road towards Orient Way CS	Arrival at Orient Way Reception Road from Tottenham Hale	6
Arrival at Orient Way CS	Arrival at Orient Way Reception Road from Tottenham Hale	2
Arrival at Orient Way CS	Departure from Orient Way CS	13
Departure from Orient Way CS towards Stratford (via Wash)	Next departure from Orient Way CS	10^
Departure from Orient Way Reception Road towards Tottenham Hale	Next departure from Orient Way CS	7
Departure from Orient Way Reception Road towards Tottenham Hale	Arrival at Orient Way Reception Road from Orient Way CS	11
* A second movement will require (2) pathing time approaching Orient Way CS if a margin of 3 minutes has been applied at Ruckholt Road Jn		
^ A reduced margin of 9 minutes may apply if the first departure from Orient Way CS towards Stratford is via the Reception, however the preferred route is via the Wash road and should be used where possible.		

<b>Lea Bridge Station</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Value</b>
Depart Lea Bridge onto Single Line	Arrive Lea Bridge from Up Line	2½
Arrive Lea Bridge from Single Line	Depart Lea Bridge onto Single Line	2

<b>Coppermill Junction Signal L1005</b>	
<b>Standage Length</b>	<b>Value</b>
Down Temple Mills standing at Coppermill Junction Signal L1005 clear of Lea Bridge Junction	125 SLUs

<b>EA1290 TOTTENHAM SOUTH JUNCTION TO SOUTH TOTTENHAM</b>	
<b>South Tottenham</b>	
<b>Standage Length</b>	<b>Value</b>
Down Tottenham South Curve towards South Tottenham Station standing at S17 Signal	91 SLUs
<b>Restrictions</b>	
Trains longer than 91 SLUs stopped at South Tottenham Signal S17 will foul the Down Cambridge Line at Tottenham South Junction. In this circumstance the headway at Tottenham South Junction applies between the departure time for the first train departing South Tottenham Signal S17 and the passing time of the second train at Tottenham South Junction.	

<b>Tottenham South Junction</b>	
<b>Standage Length</b>	
Up Tottenham South Curve towards Coppermill Junction standing at Tottenham South Junction Signal L1004	57 SLUs
<b>Restrictions</b>	
Trains longer than 57 SLUs stopped at Tottenham South Junction Signal L1004 will foul the T&H Line at South Tottenham. In this circumstance the junction margin and headway at South Tottenham applies between the departure time for the first train departing Tottenham South Junction Signal L1004 and the passing time of the second train at South Tottenham.	

<b>EA1300 SOUTH TOTTENHAM TO SEVEN SISTERS</b>	
<b>Seven Sisters</b>	
<b>Standage Length</b>	
Seven Sisters Chord Standing at L1327 signal (down), c/o South Tottenham	92m / 14 SLU

<b>Seven Sisters Chord</b>	
A train cannot be allowed on to the chord line whilst a train on the Down (Eastbound) T&H line is approaching South Tottenham due to the overlap of South Tottenham S16 Signal extending through South Tottenham station	

<b>South Tottenham</b>	
<b>Standage Length</b>	
Seven Sisters Chord Standing at S16 signal (up), c/o Seven Sisters	92m / 14 SLU

<b>EA1310 CAMDEN ROAD WEST JUNCTION TO RICHMOND</b>	
<b>Kentish Town West</b>	
<b>Platform Reoccupation</b>	
	2½

<b>Gospel Oak</b>		
<b>Dwell Time</b>		1
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Up train travelling towards Kentish Town West	Down train travelling towards Hampstead Heath	1
Down train travelling towards Hampstead Heath	Up train travelling towards Kentish Town West	3
<b>Minimum Turnround Time</b>		5
<b>Platform Reoccupation</b>		2½

<b>Hampstead Heath</b>	
<b>Platform Reoccupation</b>	2½

<b>Finchley Road &amp; Frognal</b>	
<b>Platform Reoccupation</b>	2½

<b>West Hampstead</b>	
<b>Dwell Time</b>	1
<b>Platform Reoccupation</b>	2½

<b>Brondesbury</b>	
<b>Platform Reoccupation</b>	2½

<b>Brondesbury Park</b>	
<b>Platform Reoccupation</b>	2½

<b>Kensal Rise</b>	
<b>Platform Reoccupation</b>	2½

<b>Kensal Green Turnback Siding</b>	
<b>Capacity of Siding</b>	207 metres. This equates to 2x 5 car EMU or 32 SLU
<b>Permissive Working for Splitting and Coupling of Trains Permitted</b>	In Turnback Siding

<b>Kensal Green Junction</b>		
<b>Adjustment to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Trains signalled towards Kensal Green Turnback Siding	Approach controlled signal NL1036 due to overlap on points	{½}
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move, except for those listed below		2½
<b>First move</b>	<b>Second move</b>	<b>Margin</b>
Down NLL train passes towards Harlesden Junction	Up NLL train passes from Willesden Jn High Level towards Kensal Rise	4
Up NLL train passes from Willesden Jn High Level towards Kensal Rise	Down NLL train passes towards Harlesden Junction	1

<b>Kensal Green Junction</b>	
<b>Restrictions</b>	
Trains from Willesden Junction High Level may not have timing allowances (apart from adjustment allowance as specified below) applied at Kensal Green Junction as there are no signals between Willesden Junction High Level and Kensal Green Junction. Also trains from Willesden Junction High Level cannot be planned to stop between Willesden Junction High Level and Kensal Green Junction. Only trains from Harlesden Junction (MD155) or from Willesden Junction Low Level (MD150) may be planned to stop in the Eastbound (Up) direction.	
For ARS regulating purposes, in the Eastbound (Up) Direction ARR and DEP times with activities A and * to be used in place of pathing time for trains which have been timed passing Harlesden Junction (Route MD155)	

<b>Willesden Junction High Level</b>		
<b>Dwell Time</b>	1½ peak 1 off peak 1 minute for arrivals which are going forward as ECS 1 minute for departures which have arrived as ECS	
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		2½
<b>Minimum Turnround Time</b>	Eastbound departure from Westbound platform	5
<b>Platform Reoccupation</b>	3 following freight, 2 following passenger	

<b>Acton Wells Junction</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move following passenger		2½
Fouling move following freight		3
<b>Freight Train Restriction – Down Freight Trains towards Acton Main Line or Acton TC</b>		
Freight Trains in the Down Direction from the Down Poplars to the Down Goods Line which are booked to change traincrew at Acton Main Line stop adjacent to SN182 signal on the Down Goods. It is not possible to route a second down train from Acton Wells Junction towards the Down Goods or Down Relief or Acton TC until the first train has drawn forward from signal SN182 to signal SN197 signal at Acton West		

<b>Acton Central</b>		
<b>Dwell Time</b>	Dwell time to include traction type changeover	1

<b>South Acton</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		2½
<b>Minimum Turnround Time</b>		5

<b>Gunnersbury</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Train arrives Gunnersbury from South Acton	Train departs Gunnersbury towards Turnham Green	½
Train departs Gunnersbury towards Turnham Green	Train from South Acton arrives Gunnersbury	1½
Train departs Gunnersbury towards Turnham Green	Train from South Acton passes Gunnersbury	2
<b>Minimum Turnround Time</b>		5

<b>Richmond</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Depart platforms 3-7	Conflicting arrival	3
Arrive platform 7	Depart platform 6	½ LUL
<b>Reoccupation of platform</b>	Minimum time allowed between one train departing and another arriving in the same platform including conflicting movements towards platforms	3
<b>Preferred Platforms</b>		
Platforms 3 and 4	London Overground Services	
Platform 5		
Platforms 6 and 7	London Underground District Line Services	
<b>Splitting and Coupling of trains permitted</b>	Platform 3 only for call on to attach units	
<b>Minimum Turnround Time</b>	4 LUL	

<b>EA1320 CAMDEN ROAD WEST JUNCTION TO STRATFORD PLATFORMS 1 &amp; 2</b>		
<b>All Stations on EA1320</b>		
<b>Platform Reoccupation</b>	Exceptions shown under individual stations	2½

<b>Camden Road West Junction</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		3
For ARS regulating purposes, in the Eastbound (Stratford) direction ARR and DEP times with activities A and * to be used and not pathing time for trains which have been timed passing Camden Junction (Route MD145)		

<b>Camden Road</b>		
<b>Dwell Time</b>		1
<b>Platform Reoccupation</b>		2

<b>Camden Road Central Junction</b>		
<b>Junction Margins</b>		
		<b>Margin</b>
Up Train travelling towards Camden Road on the North London Line	Down Train travelling towards Copenhagen Junction on the North London Incline Line	3
Down Train travelling towards Copenhagen Junction on the North London Incline Line	Up Train travelling towards Camden Road on the North London Line	3
For ARS regulating purposes, in the Westbound (Down) Direction ARR and DEP times with activities A and * to be used in place of pathing time for trains which have been timed passing York Road North Junction		

<b>Camden Road East Junction</b>
For ARS regulating purposes, in the Westbound direction ARR and DEP times with activities A and * to be used and not pathing time for trains routed on the Up NL line

<b>York Way North Junction</b>		
<b>This Junction is on the North London Incline Line</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		2½
Where trains are required to stand at Copenhagen Junction and are likely to be in excess of 630 metres in length then these should be held at York Way North Junction		

<b>Westbourne Road Junction</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		3
For ARS regulating purposes, in the Eastbound (Stratford) direction ARR and DEP times with activities A and * to be used and not pathing time for trains routed on the Down RL Line		

<b>Highbury Transfer Track ELL Down Direction Only</b>
For ARS regulating purposes in the Down Direction ARR and DEP times with activity OP to be used

<b>Highbury Transfer Track ELL Up Direction Only</b>
For ARS regulating purposes in the Up Direction ARR and DEP times with activity OP to be used

<b>Highbury &amp; Islington</b>		
<b>Dwell Time</b>		1 1½ AM/PM peak
<b>Platform Reoccupation</b>		2

<b>Canonbury West Junction</b>		
<b>Planning Note</b>		
A train cannot pass Canonbury West Junction towards Highbury Vale Junction if the single line from Finsbury Park is occupied.		

<b>Canonbury West Junction</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		3
For ARS regulating purposes, in the Eastbound (Stratford) direction ARR and DEP times with activities A and * to be used and not pathing time for trains from the Finsbury Park direction.		

<b>Dalston Kingsland</b>		
<b>Dwell Time</b>	Up (Westbound) trains	1 AM peak

<b>Navarino Road Junction</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Down Train travelling towards Reading Lane Junction on the Graham Road Curve	Up Train travelling towards Dalston Kingsland	2½
Up Train travelling towards Dalston Kingsland	Down Train travelling towards Reading Lane Junction on the Graham Road Curve	2½

<b>Hackney Central</b>		
<b>Dwell Time</b>		1 AM/PM peak

<b>Homerton</b>		
<b>Dwell Time</b>	Down (Eastbound) train	1 PM peak

<b>Lea Junction</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		3
For ARS regulating purposes, in the Eastbound (Stratford) direction ARR and DEP times with activities A and * to be used and not pathing time for trains which require regulation to avoid conflicting movements approaching Channelsea Junction. The conflicting movements are from Stratford platforms 1 & 2, or towards High Meads Junction		

<b>Channelsea Junction</b>		
<b>Freight Train Length restriction</b>		
Freight trains of more than 50 SLUs brought to a stand at Signal NL1294 on Channelsea Curve will be foul of Stratford Central Junction in rear and junction margins should be applied at Stratford based on departure time from signal NL1294		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Between all movements		3

**Channelsea Up Loop Signal NL1286**

For ARS regulating purposes in the Westbound direction ARR and DEP times with activities A and \* to be used at Lea Jn (Tiploc – LEAJ).

**Stratford Platforms 1 and 2****Junction Margin**

First Movement	Second Movement	Margin
Depart from Platform 1	Arrive in Platform 1 or 2	3
Depart from Platform 2	Arrive in Platform 2	2
Arrive in Platform 2	Depart from Platform 1	1

**EA1340 STRATFORD LEA JUNCTION TO HIGH MEADS JUNCTION****Lea Junction**

For ARS regulating purposes in the Westbound direction ARR and DEP times with activities A and \* to be used and not pathing time.

**EA1350 CHANNELSEA NORTH JUNCTION TO TEMPLE MILLS EAST JUNCTION****High Meads Junction**

For ARS regulating purposes in the Up direction towards Lea Junction or Channelsea Junction, ARR and DEP times with activities A and \* to be used and not pathing time.

**Temple Mills East Junction**

For ARS regulating purposes in the Northbound (Temple Mills Loop/Orient Way/Coppermill Junction) direction, ARR and DEP times with activities A and \* to be used and not pathing time.

**EA1360 DUDDING HILL JUNCTION TO ACTON WELLS JUNCTION****Neasden Junction**

Note that Route MD 715 Neasden South Junction to Neasden Junction is closed when Neasden Junction Signal Box is switched out. See Section 2.2 Route Opening Hours

Movement	Minimum Allowance
Run-round at Neasden Junction	30 minutes

**Acton Canal Wharf Junction****Length Limits**

Down Cricklewood Run-round	43 SLUs
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**Junction Margins**

First Movement	Second Movement	Margin
Train crossing towards MD170	Down train to Acton Wells Junction	3

**EA1370 GOSPEL OAK TO BARKING TILBURY LINE JUNCTION WEST****Gospel Oak**

<b>Minimum Turnround Time</b>	5
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**Gospel Oak Signal NL1306**

For ARS regulating purposes, in the Westbound direction and so as not to block the London Overground services in the Bay platform at Gospel Oak ARR and DEP times with activities A and \* to be used and not pathing time

**Standage Length**

Up T&H Line (Westbound) towards Gospel Oak standing at Gospel Oak Signal NL1306	84 SLUs
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**Restrictions**

Trains longer than 84 SLUs stopped at Gospel Oak Signal NL1306 will foul Junction Road Junction. In this circumstance junction margin and headway at Junction Road Junction applies between the departure time for the first train departing Gospel Oak Signal NL1306 and the passing time of the second train at Junction Road Junction.

**Junction Road Junction****Junction Margins**

<b>Movement</b>	<b>Margin</b>
Fouling move	3

**Upper Holloway****Junction Margins**

<b>Movement</b>	<b>Margin</b>
Fouling move	3

**Harringay Park Junction****Junction Margins**

<b>Movement</b>	<b>Margin</b>
Fouling move	3

**South Tottenham Chord Line to and from Seven Sisters**

A train cannot be allowed on to the chord line whilst a train on the Down (Eastbound) T&H line is approaching South Tottenham

**South Tottenham****Junction Margins**

<b>Movement</b>	<b>Margin</b>
Fouling move	3

**Blackhorse Road**

<b>Dwell Time</b>	1
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<b>Woodgrange Park</b>			
<b>Adjustments to Sectional Running Times</b>			
<b>Movement Down</b>			
<b>Movement</b>	<b>Timing Load</b>	<b>Reason</b>	<b>Allowance</b>
Pass from Forest Gate Junction	Freight up to 1235t/TR70 (inclusive)	Speed Differential	{½} approaching Barking Station Junction
	Freight over 1235t/TR70	Speed Differential	{1} approaching Barking Station Junction
<b>Movement Up</b>			
<b>Movement</b>	<b>Reason</b>		<b>Allowance</b>
Freight trains passing Barking from Ripple Road Jn via the Up Goods (GL) / Departure Line	Not at line speed passing Barking		{1}
Freight trains passing from Barking which use the Up Tilbury (ML) and contain pathing time between Dagenham Dock and Barking	Not linespeed at Barking due to seeing restrictive aspects on the approach		{1½}
Trains passing towards Forest Gate Jn (if none of the above apply)	Differential linespeed		{1} except 357
<b>Junction Margins</b>			
<b>Movement</b>			<b>Margin</b>
Fouling move			3

<b>Barking Station Junction</b>			
<b>Adjustments to Sectional Running Times</b>			
<b>Movement</b>	<b>Reason</b>	<b>Value</b>	
Pass to Barking Platform 1	Via slower route	{½} approaching Barking	
Pass from Barking Platform 1	Via slower route	{½}	
<b>Junction Margins</b>			
<b>Movement</b>			<b>Margin</b>
Fouling move			2
<b>Overlap Restrictions</b>			
No pathing time to be included in the Up direction between Barking and Barking Station Junction when following a train from Barking platform 1 as the signal overlap fouls the junction. Trains are regulated at Barking Station for conflicts at Barking Station Junction.			

<b>Barking (Platform 1)</b>		
<b>Minimum Turnround Time</b>		
		5

<b>EA1380 FENCHURCH STREET TO SHOEBURYNNESS</b>	
<b>Fenchurch Street</b>	
<b>Advertised Time Changes</b>	
Trains booked to arrive at Fenchurch Street between 07.00 and 10.00 Mondays to Fridays are to be advertised to arrive 2 minutes later than WTT.	
Trains which depart from Fenchurch Street between 16.00 and 19.00 Mondays to Fridays are to be advertised to arrive at destination 2 minutes later than WTT.	
<b>Connectional Allowance</b>	7
<b>Platforming Principles</b>	
During AM Peak it is desirable to allow 5 minutes between consecutive arrivals on the same island platform	
<b>Splitting, coupling and double docking of trains permitted</b>	
<b>Platforming Restriction – 8 car EMU trains approaching on the Up Slow Line cannot be signalled into a platform which is already occupied by a 4 car EMU train</b>	
Minimum time allowed between one train departing and another arriving in the same platform	3

<b>Christian Street Junction</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		2

<b>Gas Factory Junction</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		2

<b>Barking</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Up freight trains from Ripple Lane Exchange Sidings towards Barking via ML	Slow Speed connection from Ripple Lane Exchange Sidings	{1½}
Up freight trains from Ripple Road Jn towards Barking via the Up Goods (GL) / Departure Line	Acceleration	{1} approaching Barking
Up trains passing Upney Jn to Barking platform 8 via Up Connecting Line (UCL)	Approach control	{1} approaching Barking
<b>Dwell Time</b>		1 peak only
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move where the first movement is a non-stopping train		2½ unless listed below

<b>Barking</b>		
<b>First movement</b>	<b>Second movement</b>	<b>Margin</b>
Up train departs platform 5 towards West Ham	Down train arrives platform 7 from West Ham	2½
Down train arrives/passes platform 7 from West Ham	Up train departs platform 5 towards West Ham	Simultaneous
Down train arrives/passes platform 7 from West Ham	Up train passes platform 5 towards West Ham	½
Up train pass/depart platform 8	Up freight depart Ripple Road Junction	1
ECS depart to East Ham EMUD	Up train depart towards West Ham	3
Depart platform 7 towards Tilbury or Barking Riverside	Arrive platform 8 from Upminster via Up Connecting Line (UCL)	3
<b>Margin for overlap timeout at Barking Upney Junction</b>		
<b>First movement</b>	<b>Second movement</b>	<b>Margin</b>
Train arrives onto the Up Connecting Line at Barking Upney Junction from platform 7 or 8	Up train arrives into platform 5	2½
Up train arrives into platform 5	Train arrives onto the Up Connecting Line at Barking Upney Junction from platform 7 or 8	2½
<b>Overlap Restrictions</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Up train arriving platform 8	Up train departing platform 7 towards Barking Station Junction or West Ham via the Up Tilbury (shared overlap across 2207 points)	3 mins to allow for overlap to timeout
Up train departing platform 7 towards Barking Station Junction or West Ham via the Up Tilbury	Up train arriving platform 8 (shared overlap across 2207 points)	2 mins to allow for first train to clear overlap
<b>Length Limits</b>		
Platform 1 Reversing Moves	28 SLUs	
Platform 7	38 SLUs	
Platform 8	38 SLUs	
Up Connecting Line Both Directions	36 SLUs	

<b>Upminster</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Freight pass to Ockendon	Approach control and via slow speed crossover	{1}
Freight pass from Ockendon	Acceleration and via slow speed crossover	{1} approaching next timing point
<b>Dwell Time</b>		1 peak only
<b>Junction Margins</b>		
Fouling Move		3
Except:		
Down departure to Ockendon following conflicting Up arrival		½
<b>Platform Reoccupation</b>		2 (through lines only)

<b>Laindon</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
For trains to/from middle platform	Via slow speed crossover	{½}
<b>Dwell Time</b>		1 peak only
<b>Length Limit</b>		
Platform 2		38 SLUs

<b>Basildon</b>		
<b>Dwell Time</b>		1 peak only

<b>Pitsea</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move where the first movement is a non-stopping train		2

<b>Benfleet</b>		
<b>Dwell Time</b>		1 peak only

<b>Leigh-on-Sea</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
For trains to/from middle platform	Via slow speed crossover	{½}
<b>Dwell Time</b>		1 peak only
<b>Length Limits</b>		
Platform 2		38 SLUs

<b>Southend Central</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
For trains to/from Platforms 1 & 4	Via slow speed crossover	{½}
<b>Dwell Time</b>	Applies to Class 357 timing loads only	1
<b>Splitting and Coupling of trains permitted</b>	Platforms 1 and 4 only	

<b>Shoeburyness Depot London End Junction</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Crossing movement pass Shoeburyness Depot London End Junction	Depart from Shoeburyness station to Up Main	1

<b>Shoeburyness</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Departure from platform 1 towards Thorpe Bay	Arrival into any platform	4
Departure from platforms 2 or 3 towards Thorpe Bay	Conflicting arrival	3
<b>Length Limits</b>		
<b>Platform 1</b> Reversing Moves		40 SLUs
<b>Platform 2</b> Reversing Moves		42 SLUs
<b>Platform 3</b> Reversing Moves		29 SLUs
<b>Splitting and Coupling of trains permitted</b>	All platforms	

<b>EA1390 BARKING TILBURY LINE JUNCTION EAST TO PITSEA JUNCTION (VIA TILBURY)</b>		
<b>All Junctions</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling moves		3 unless otherwise specified

<b>Ripple Road Junction</b>		
<b>Junction Margin</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Up train pass/depart Barking Platform 8	Up freight depart Ripple Road Junction / Ripple Lane Signal UR846	See entry on EA1380 at Barking

<b>Ripple Lane West Junction</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Freight pass towards Ripple Lane West S.S. or Ripple Lane Renwick Road Junction	Up pass from Barking Riverside	4
Up pass from Barking Riverside	Freight pass towards Ripple Lane West S.S. or Ripple Lane Renwick Road Junction	2

<b>Ripple Lane West Yard</b>		
<b>Ripple Lane West SS</b>		
<b>Consists of three through sidings connected to the Up and Down Goods and a headshunt</b>		
<b>Terminal Lengths</b>		
Headshunt		49 SLUs
Siding No.1		63 SLUs
Siding No.2		73 SLUs
Reception Line		92 SLUs
<b>Harry Group Sidings</b>		
No. 7 Siding		72 SLUs
No. 8 Siding		71 SLUs
<b>Stora Sidings</b>		
Stora Siding		58 SLUs
No. 1 ASW		31 SLUs
No. 2 ASW		31 SLUs

<b>Barking Eurohub</b>		
<b>Terminal Length</b>		
<b>Consists of two roads 350m in length</b>		55 SLUs
<b>Restriction</b>		<b>Minimum Allowance</b>
Down trains booked to arrive at Barking Eurohub must run-round in Ripple Lane West S.S. or at Ripple Lane Signal 807 before propelling back into Barking Eurohub at 3mph. Ripple Lane West S.S. is the preferred location for the run-round to prevent blocking the Down Goods line for the duration of the run-round.		20 minutes at previous timing point

<b>Ripple Lane Exchange Sidings</b>		
<b>Terminal Length</b>		
Freight length restriction		118 SLUs

<b>Dagenham Dock</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Down freight trains via ML towards Dagenham Down Yard	Freight Trains under approach control signalling and via slow speed connection to Dagenham Down Yard	{1½}

<b>Purfleet</b>		
<b>Junction Margins</b>		
<b>First Move</b>	<b>Second Move</b>	
Train Arrives P1	Train 2 departs into Purfleet Long Sidings	3
Train departs P2 into Purfleet Long Sidings	Train arrives P1	5

<b>Purfleet</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Departures passing Purfleet from Purfleet Long Siding for trains timed at Deep Wharf LC (via UR1166 signal)	Not linespeed passing Purfleet	{2} after Purfleet
Purfleet	2 minute OP stop required at Purfleet for trains entering Purfleet Long Sidings to await clearance from PIC to enter Long Sidings	2
<b>Outbound</b>		
UR1176 Signal	Op Stop for trains departing Purfleet Long Sidings from West Thurrock Sidings	2
<b>Terminal Lengths</b>		
Purfleet Deep Water Wharf (Car traffic)		103 SLUs
Purfleet Deep Water Wharf (Intermodal traffic)		68 SLUs
Foster Yeoman Sidings		31 SLUs
West Thurrock Sidings		64 SLUs

<b>Purfleet Long Siding</b>
<b>Restrictions</b>
Purfleet Long Siding is split into three sections: The Spur, Jurgens Long Siding and Velacotts Long Siding. No more than one train may be in each of these three sections at any time. For timetabling purposes Jurgens Long Siding is between Purfleet and Jurgens LC. For timetabling purposes Velacotts Long Siding is between Jurgens LC and West Thurrock Headshunt. For timetabling purposes, The Spur is not currently used. These sections should be treated as AB sections.

<b>Deep Wharf LC</b>		
<b>Trains to or from Purfleet Foster Yeoman &amp; to West Thurrock Sidings</b>		
All trains must stop to operate the level crossing at Deep Wharf LC	OP stop	2 mins
<b>Trains to Purfleet Deep Water Wharf</b>		
All trains to Purfleet Deep Water Wharf must have a RR at Deep Wharf LC before propelling back into the terminal. No other trains should be planned onto any part of Purfleet Long Siding until the RR is complete and the train has arrived into Purfleet Deep Water Wharf.	RR Allowance (due to distance the loco must travel via 2267 points, Up Tilbury and 2265/2266 points)	45 mins
<b>Trains from Purfleet Deep Water Wharf</b>		
All trains from Purfleet Deep Water Wharf must be timed with an OP stop at Deep Wharf LC before departing Purfleet Long Siding via UR1166 signal, 2266 & 2265 points to Purfleet.	OP stop	2 mins

<b>Jurgens LC</b>		
<b>Trains to West Thurrock Sidings</b>		
All trains must stop to operate the level crossing at Jurgens LC	OP stop	2 mins

<b>Jurgens LC</b>		
<b>Trains to Purfleet Foster Yeoman</b>		
All trains to Purfleet Foster Yeoman must have an extended OP stop at Jurgens LC in order to activate the level crossing and propel back into the terminal.	OP stop to activate level crossing, RM and PR	10 mins
<b>Trains from Purfleet Foster Yeoman</b>		
All trains from Purfleet Foster Yeoman must have a RR at Jurgens LC before departing Purfleet Long Siding via Deep Wharf LC, UR1166 signal, 2266 & 2265 points to Purfleet. No other trains should be planned onto any part of Purfleet Long Siding until the RR is complete.	RR Allowance (due to distance the loco must travel via 2267 points, Up Tilbury and 2265/2266 points)	45 mins

<b>West Thurrock Headshunt</b>		
<b>Trains to and from West Thurrock Sidings</b>		
All trains stop before propelling move to sidings or after propelling move from sidings	RM and PR stop	2 mins

<b>West Thurrock Junction</b>		
For ARS regulating purposes in the Eastbound direction, ARR and DEP times with activities A and * are to be used and NOT pathing time approaching Grays due to overlap restrictions. This is to apply when a train is departing Platform 3 at Grays towards the Up Tilbury line or from Platform 2 towards Ockendon.		

<b>Grays</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Down freight trains approaching Seabrooks Sidings or Tilbury RCT	Freight Trains under approach control signalling and via Slow Speed connection	{1½}
Trains travelling from the ML at West Thurrock into Grays platform 3 using RVL route	Slow speed route	{½}
Trains travelling from the ML at West Thurrock into Grays platform 3 not using RVL route	Slower speed route	{1}
Trains departing Grays platform 3 onto ML at West Thurrock Jn	Acceleration	{½}
<b>Dwell Time</b>		1 peak only
<b>Restrictions</b>		
Trains longer than 104 SLUs stopped at Grays on the Third Line in the Down Direction will foul the Down Tilbury Line at West Thurrock Junction. In this circumstance the headway at West Thurrock Junction applies between the departure time for the first train departing Grays and the passing time of the second train at West Thurrock Junction.		
Trains longer than 122 SLUs stopped at West Thurrock Junction on the Third Line in the Up Direction will foul the Down Tilbury Line at Grays. In this circumstance the junction margin and headway at Grays applies between the departure time for the first train departing West Thurrock Junction and the passing time of the second train at Grays.		

<b>Grays</b>		
<b>Standage Lengths</b>		
Third Line Down Direction		104 SLUs
Third Line Up Direction via Ockendon only		122 SLUs

<b>Tilbury Town</b>		
<b>Connectional Allowance</b>		3

<b>Tilbury Railport Junction (former Tilbury West Junction)</b>		
<b>Junction Margin</b>		<b>Margin</b>
Fouling move where the first movement is a freight train entering Tilbury2 Terminals		4

<b>Thames Haven Junction</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Down freight trains towards London Gateway Port facility/Thames Haven TC	All trains under approach control signalling (UR 715) and via Slow Speed connection towards London Gateway Port facility/Thames Haven	{1½}
<b>Junction Margin</b>		<b>Margin</b>
Fouling move where the first movement is a freight train towards London Gateway Port facility/Thames Haven TC		4

<b>EA1395 RIPPLE LANE WEST JUNCTION TO BARKING RIVERSIDE</b>		
<b>Barking Riverside</b>		
<b>Platform End Conflicts</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Arrive Platform 2	Depart Platform 1	1
Depart to Barking	Conflicting arrival	2½
<b>Platform Reoccupation</b>		2½

**EA1410 UPMINSTER TO WEST THURROCK JUNCTION****Ockendon****Adjustments to Sectional Running Times**

Movement	Reason	Value
Pass through Platform 2 (Up & Down Loop)	Approach control	{ $\frac{1}{2}$ }
Pass through Platform 2 (Up & Down Loop)	Acceleration	{ $\frac{1}{2}$ } approaching next timing point

**Junction Margins**

First Movement	Second Movement	Margin
Passenger arrives from Upminster	Passenger departs to Upminster	$\frac{1}{2}$
Passenger arrives from Grays	Passenger departs to Grays	0
Passenger departs Ockendon	Passenger departs in opposite direction	0
Freight passes Ockendon	Passenger departs in opposite direction	1

**Overlap Restrictions**

First Movement	Second Movement	Margin
Down train arrive Ockendon	Up train arrive/pass Ockendon	2
Up train arrive Ockendon	Down train arrive/pass Ockendon	2

**Operating Restrictions**

When not crossing another train (ie passing or being passed by another train), trains normally use Platform 1 in either direction (Up & Down Ockendon).

Down stopping passenger services should be routed via Platform 1 where possible. Should no other timetabling solution be available, the planner must inform the TOC that platform 2 is being used. This is due to there being no DOO equipment at the country end of platform 2, requiring dispatch staff to be provided.

Crossing trains cannot arrive from opposite directions simultaneously; trains must arrive at least 2 minutes apart.

A train exceeding 312 metres / 48 SLU (down direction) or 484 metres / 75 SLU (up direction) may pass another train. The second train must not exceed these lengths.

**EA1420 THAMES HAVEN JUNCTION TO LONDON GATEWAY PORT/  
THAMES HAVEN SIDINGS****Thames Haven****Maximum Standage Length**

Reception	68 SLUs
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**EA1430 EAST SUFFOLK JUNCTION TO OULTON BROAD NORTH JUNCTION****Ipswich Signal CO348****Standage Length**

Up East Suffolk Line towards East Suffolk Junction & Ipswich standing at Ipswich Signal CO348 clear of Boss Hall Junction	46 SLUs
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**EA1430 EAST SUFFOLK JUNCTION TO OULTON BROAD NORTH JUNCTION****Ipswich Signal CO348****Restrictions**

Trains longer than 46 SLUs stopped at Ipswich Signal CO348 will foul Boss Hall Junction. In this circumstance headway at Boss Hall Junction applies between the departure time for the first train departing Ipswich Signal CO348 and the passing time of the second train at Boss Hall Junction.

**Westerfield****Junction Margins**

First Movement	Second Movement	Margin
Up passenger trains departs/passes platform 1	Down trains passes/arrives platform 1	3
Up freight train passes platform 1	Down train passes/arrives platform 1	3½

**Woodbridge**

<b>Dwell Time</b>	1
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**Junction Margins**

First Movement	Second Movement	Margin
Up passenger train arrive platform 2	Down train depart platform 1	0

**Melton****Stopping Instructions**

Single Line. Down trains must be timed to stop before continuing over Level Crossing.  
Services not stopping to set down or pick up passengers should show an OP stop and ½ minute dwell.

**Saxmundham**

<b>Dwell Time</b>	1
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**Junction Margin**

First Movement	Second Movement	Margin
Down train arrive platform 2	Up train depart platform 1	1

**Darsham**

<b>Dwell Time</b>	For ECS/Freight/Network Services trains travelling on either line in Up direction to show an OP stop or Suppression of traffic stop indicator dwell time activity in schedule	½
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<b>Halesworth</b>		
<b>Dwell Time</b>		1
<b>Junction Margin</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Up train arrive platform 1	Down train depart platform 2	1

<b>Beccles</b>	
<b>Dwell Time</b>	
1	
<b>Single Line crossing</b>	
First train arrives at xx and departs xx +03½. Second train arrives xx +02½ and departs xx +03½	

<b>EA1440 WESTERFIELD JUNCTION TO FELIXSTOWE TOWN</b>	
<b>Derby Road</b>	
<b>Platforming Principles</b>	
Where possible Down services should use platform 2 and Up services should use platform 1.	
<b>Single Line Crossing</b>	
First train arrives at xx and departs xx +03 Second train arrives at xx +02 and departs xx +02½	
First train arrives at xx and departs xx +04 Second train passes at xx +02	

<b>Gun Lane Junction</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Train to TL line	Approach control	{½}
Train passing from TL line	Line speed differential	{½} after Gun Lane Junction
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Passenger train passes to Trimley	Freight train passes to Derby Road from TL	5
Passenger train passes to Trimley	Freight train departs to Derby Road from TL	1½
Freight train passes to Trimley via FS	Freight train passes to Derby Road from TL	5½
Freight train passes to Trimley via FS	Freight train departs to Derby Road from TL	2
Freight train passes to Trimley via TL	Passenger train passes to Derby Road	2
Freight train passes to Trimley via TL	Freight train passes to Derby Road from FS	3

<b>Trimley</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Up train from Felixstowe Beach Junction passing to TL line	Approach control	{1}
Up train from Felixstowe North/Central to FS line	Speed differential from slower speed line	{1½} after Trimley

<b>Trimley</b>		
Up train from Felixstowe North/Central to TL line	Speed differential from slower speed line	{1} after Trimley
Down train towards Felixstowe North/Central from FS line	Approach control	{1}
Down train towards Felixstowe Beach Junction from TL line	Speed differential from slower speed line	{1} after Trimley
Down train towards Felixstowe Beach Junction from FS line which has stopped at Trimley signal FW9029	Not at line speed passing Trimley	{1} after Trimley
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Freight train passes to Felixstowe Beach Junction from FS	Freight train passes from Felixstowe North/Central crossing to FS	2½
Freight train passes to Felixstowe Beach Junction from TL	Freight train passes from Felixstowe North/Central	3½
Freight train passes towards Gun Lane Junction via TL	Freight train passes towards Felixstowe North/Central crossing from FS	3
Freight train passes towards Gun Lane Junction	Conflicting Down train departs from signal FW9029 or FW9031	2
Freight train passes from Felixstowe Beach Junction	Freight train passes to Felixstowe Beach Junction from TL	3½
<b>Restriction</b>		
There are no down direction signals at Trimley station. This means that: <ul style="list-style-type: none"> <li>Down trains which require to be regulated require a stop at Trimley signal FW9029 (FS) or Trimley signal FW9031 (TL).</li> <li>A Down train cannot be routed into Trimley station if an Up train has passed Felixstowe Beach Junction towards Trimley, even if the Up train is routed TL at Trimley.</li> </ul> At Trimley the up direction signal is located before the platform. This means that: <ul style="list-style-type: none"> <li>An Up train cannot be routed into Trimley station if there is another train in the Trimley to Gun Lane Junction section on the FS.</li> </ul>		

<b>Felixstowe Beach Junction</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Freight Train towards Felixstowe Beach Branch	Passenger Train departing from Felixstowe Town	3

<b>EA1450 TRIMLEY TO FELIXSTOWE NORTH AND CENTRAL TERMINALS</b>		
<b>Felixstowe Signal NQ4</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Inbound train from Trimley passes Felixstowe NQ4	Outbound train to Trimley passes Felixstowe NQ4	8

**EA1460 FELIXSTOWE BEACH JUNCTION TO FELIXSTOWE BEACH****Felixstowe Creek Sidings****Junction Margins**

First Movement	Second Movement	Margin
Freight train arrives at Creek RS from site of Felixstowe Beach Station	Freight train departs Creek RS towards site of Felixstowe Beach Station	3

**EA1470 NORWICH THORPE JUNCTION TO LOWESTOFT****Brundall**

Dwell Time	1
Single Line Reoccupation	2½

**Reedham**

Dwell Time	1
Single Line reoccupation	To or from Great Yarmouth

**Oulton Broad North**

Dwell Time	1
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**Coke Ovens Junction****Junction Margins**

First Movement	Second Movement	Margin
Up train passes	Down train crosses to Up Lowestoft line	1½

**Lowestoft****Junction Margins**

First Movement	Second Movement	Margin
Arrive platform 3 or 4	Depart different platform	1
Depart platform 2	Arrive platform 2	4

**Terminal Length**

Reception	48 SLUs
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Splitting and Coupling of trains permitted	All platforms
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**EA1480 WHITLINGHAM JUNCTION TO CROMER****Hoveton & Wroxham**

Dwell Time	1
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**Junction Margins**

First Movement	Second Movement	Margin
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**EA1480 WHITLINGHAM JUNCTION TO CROMER****Hoveton & Wroxham**

Train leaves single line section	Train enters single line section	1
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**North Walsham**

<b>Dwell Time</b>		1
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**Junction Margins**

<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Up passenger train arrives from Cromer	Down passenger train departs towards Cromer	½
Down passenger train arrives from Norwich	Up passenger train departs towards Norwich	1
Freight Train leaves single line section	Freight train enters single line section for North Walsham Yard	3
Freight Train leaves single line section	Passenger train enters the single line section	3

**Cromer**

<b>Minimum Turnround</b>	DMU / BMU	4
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<b>Single Line Reoccupation</b>	DMU / BMU	1
	Charter train requiring pilot working	5

**EA1490 CROMER TO SHERINGHAM****Sheringham**

Moves on or off the North Norfolk Railway cannot take place without prior agreement from the Local Operations Manager (Trowse)	
Allowance for pilot working to be withdrawn after a charter train has departed to Sheringham NN Railway (SHRGNNR). The allowance should be shown as additional dwell at Sheringham	5
Allowance for pilot working to be introduced before a charter train can depart from Sheringham NN Railway (SHRGNNR) towards Sheringham. The allowance should be shown as additional dwell at Sheringham	5

**EA1500 BRUNDALL JUNCTION TO YARMOUTH****Acle**

<b>Dwell Time</b>		1
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<b>Single Line Crossing</b>	<p>First train arrives at xx and departs xx +02½ Second train arrives xx +02 and departs xx +03</p> <p>If the Up train exceeds the Up Loop length the down train must arrive first and depart second.</p>
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<b>Great Yarmouth</b>		
<b>Single Line Reoccupation</b>	DMU / BMU	1
	Other	2½
<b>Splitting and Coupling of trains permitted</b>	All platforms	

<b>EA1530 COLDHAM LANE JUNCTION TO HAUGHLEY JUNCTION</b>		
<b>Dullingham</b>		
<b>Single Line Crossing</b>	First train arrives xx and departs xx +02½ Second train arrives xx +02 and departs xx +03	

<b>Newmarket</b>		
<b>Dwell Time</b>		1

<b>Chippenham Jn</b>			
<b>Junction Margins</b>			
<b>First Movement</b>	<b>Second Movement</b>		<b>Margin</b>
Down train from Cambridge direction	Up train towards Cambridge		2
Down train from Cambridge direction	Up train towards Soham		2½
Up passenger train towards Soham	Down train from Cambridge direction		2½
Up freight train towards Soham	Down train from Cambridge direction		3

<b>Bury St Edmunds</b>		
<b>Dwell Time</b>		1
<b>Terminal Lengths</b>		
Up Reception	Headshunt beyond the points leading back to the Up Main line to achieve 60 SLUs	60 SLUs
Up Reception	Without headshunt	25 SLUs
<b>Splitting and coupling of trains permitted</b>	Attaching or detaching in service	4

<b>EA1540 CHIPPENHAM JUNCTION TO ELY DOCK JUNCTION</b>		
<b>Snailwell</b>		
<b>Terminal Length</b>		
Reception		60 SLUs

<b>Soham</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Pass/Depart Soham to Chippenham Junction	Pass Soham/Arrive Soham from Chippenham Junction (not timed at Soham Junction Signal CA491)	2½
Passenger Pass/Depart Soham to Chippenham Junction	Depart Soham Junction Signal CA491 to Ely Dock Junction	1
Freight Pass Soham to Chippenham Junction	Depart Soham Junction Signal CA491 to Ely Dock Junction	1½

<b>EA1560 ELY NORTH JUNCTION TO KINGS DYKE (INCLUSIVE)</b>		
<b>Ely West Junction</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Pass Ely West Junction onto the Ely West Curve	Pass Ely North Junction towards Peterborough	3
Passenger pass Ely North Junction towards Peterborough	Pass Ely West Junction onto the Ely West Curve	2
Freight pass Ely North Junction towards Peterborough	Pass Ely West Junction onto the Ely West Curve	3

<b>Manea</b>	
<b>Dwell Time</b>	1 GA

<b>March</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement Down</b>	<b>Reason</b>	<b>Value</b>
Trains via Platform 2 pass towards Whitemoor	Approach control and via slow speed crossover	All timing loads {½}
<b>Movement Up</b>	<b>Reason</b>	<b>Value*</b>
Class 4 freight pass from Whitemoor towards Ely	Acceleration	up to 600t {1½}
		800t to 1600t {2½}
		1800t and over {3}
Class 6 freight pass from Whitemoor towards Ely	Acceleration	up to 600t {1½}
		800t and over {2}
*Allowance to be applied approaching next timing point		
<b>Advertised Time Changes</b>		
CrossCountry trains departing March in the Down direction to be advertised to depart 1 minute earlier than WTT if they depart on a whole minute. (This is to help mitigate late running in the event the train encounters cautionary signals on the approach to Norwood Road Level Crossing.)		
<b>Dwell Time</b>	1 GA 1 XC Class 170	

<b>March</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Freight arrives March Up loop	Freight passes March in the Up direction	4
<b>Planning Note</b>		
Freight trains, less than 76 SLUs, stopping in the down direction for crew relief, must be planned to stop in the Down Goods Loop if available. Stopping in the down platform at March results in the level crossing being blocked for an extended period of time.		
<b>Terminal Lengths</b>		
Up Reception	39 SLUs	

<b>March West Junction</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement Down</b>	<b>Reason</b>	<b>Value*</b>
Class 4 trains pass from Whitemoor	Acceleration	Up to 1200t/TR70 {2} 1400t {3} 1600t - 1800t {3½}
Class 6 and 7 trains (non HAW) pass from Whitemoor	Acceleration	400t/600t {1} 800t and TR40 {1½} 1000t/1200t and {2} TR55/TR70 1400t and TR85 {3} 1600t – 2000t and {3½} TR100/115 2200t – 2400t and {4} TR130
Class 6 and 7 trains (HAW) pass from Whitemoor	Acceleration	Up to 2000t/TR115 {1} 2200t {1½} 2400t and TR130 {2}
*Allowance to be applied approaching next timing point		
<b>Movement Up</b>	<b>Reason</b>	<b>Value</b>
Freight pass to Whitemoor	Deceleration, approach control	All timing loads {1½} approaching March West Jn

<b>Whittlesea</b>	
<b>Dwell Time</b>	1 GA

<b>EA1570 MARCH EAST &amp; WEST JUNCTIONS TO WISBECH</b>	
<b>Whitemoor Junction</b>	
<b>Junction Margin</b>	<b>Margin</b>
All movements	3

**EA1580 ELY NORTH JUNCTION TO TROWSE JUNCTION****Brandon****Dwell Time**

1

**Thetford****Dwell Time**

1

**Attleborough****Dwell Time**

1

**Wymondham Down Sidings****Terminal Length**

Down Sidings

45 SLUs

**Wymondham Up Siding****Terminal Length**

Up Siding

45 SLUs

**Wymondham****Dwell Time**

1 GA

## 5.4 Platform Lengths

The table below shows the maximum length of train that may use each of the platforms at the following passenger stations. All lengths are in metres. The quoted lengths are the usable lengths from ramp to ramp unless specified. The measurements take no account of the need for signal sighting. Passenger Trains longer than the quoted lengths will only be accepted subject to the authority of the Route Director.

Station	Platform	Effective Length m	Notes
Acle	1 (Up)	169	(82m in operational use)
Acle	2 (Down)	118	(86m in operational use)
Acton Central	1 (Westbound)	117	
Acton Central	2 (Eastbound)	133	
Alresford	1 (Up)	176	10-car 720 permitted with ASDO operation
Alresford	2 (Down)	176	10-car 720 permitted with ASDO operation
Althorne	Single	161	10-car 720 permitted with ASDO operation
Attleborough	1 (Down)	114	(90m in operational use)
Attleborough	2 (Up)	128	
Audley End	1 (Up)	246.7	
Audley End	2 (Down)	254.6	
Barking	1 (Bay)	184.5	
Barking	4	278	
Barking	5	257	
Barking	7 (Down)	244	
Barking	8 (Up)	250	
Barking Riverside	1	110	
Barking Riverside	2	110	
Basildon	1 (Up)	251	
Basildon	2 (Down)	251	
Battlesbridge	Single	166	10-car 720 permitted with ASDO operation
Beccles	1 (Up)	125	
Beccles	2 (Down)	125	
Benfleet	1 (Up)	251	
Benfleet	2 (Down)	251	
Berney Arms	Single	18	3/4-car 755 permitted with ASDO operation
Bethnal Green	1 (Up)	174.6	Suburban Line only
Bethnal Green	2 (Down)	188.5	Suburban Line only
Billericay	1 (Up)	248	
Billericay	2 (Down)	249	
Bishop's Stortford	1	251	
Bishop's Stortford	2	251	
Bishop's Stortford	3	251	
Blackhorse Road	1 (Up)	84.7	
Blackhorse Road	2 (Down)	85.1	
Braintree	Single	247	
Braintree Freeport	Single	165.9	10-car 720 permitted with ASDO operation
Brampton	Single	73	4-car 755 permitted with ASDO operation
Brandon	1 (Down)	91	
Brandon	2 (Up)	91	
Brentwood	1 (Up Main)	211	
Brentwood	2 (Down Main)	211	
Brentwood	3 (Up Electric)	211	
Brentwood	4 (Down Electric)	211	

Station	Platform	Effective Length m	Notes
Brimsdown	1 (Up)	162.5	L1042 relocation before ASDO can operate at location expected Jul 22
Brimsdown	2 (Down)	181.5	10-car 720 permitted with ASDO operation
Brondesbury	1 (Westbound)	107	
Brondesbury	2 (Eastbound)	109	
Brondesbury Park	1 (Westbound)	106	
Brondesbury Park	2 (Eastbound)	126	
Broxbourne	1	172	Platforming lengthening proposed - length and commissioning date TBC
Broxbourne	2	245	
Broxbourne	3	245	
Broxbourne	4	172	Platforming lengthening proposed - length and commissioning date TBC
Bruce Grove	1 (Up)	187.1	
Bruce Grove	2 (Down)	182.7	
Brundall	1 (Up)	159	(118m in operational use)
Brundall	2 (Down)	143	(98m in operational use)
Brundall Gardens	1 (Up)	58	4-car 755 permitted with ASDO operation
Brundall Gardens	2 (Down)	58	4-car 755 permitted with ASDO operation
Buckenham	1 (Up)	60	3/4-car 755 permitted with ASDO operation
Buckenham	2 (Down)	135	(52m in operational use) 3/4-car 755 permitted with ASDO operation
Bures	Single	82	TAWS fitted 3-car Class 755 units only
Burnham-on-Crouch	Single	169	10-car 720 permitted with ASDO operation
Bury St Edmunds	1 (Up)	102.4	
Bury St Edmunds	2 (Down)	115.8	
Bush Hill Park	1 (Up)	188.5	
Bush Hill Park	2 (Down)	188.9	
Caledonian Road & Barnsbury	2 (Westbound)	107	
Caledonian Road & Barnsbury	3 (Eastbound)	124	
Cambridge	1	255	12-car capacity
Cambridge	2	207	
Cambridge	3	166	
Cambridge	4	260	12-car Class 387 permitted in down direction only
Cambridge	5	121	Class 720s are not permitted to use Platform 5
Cambridge	6	145	Maximum 4-car EMU/BMU plus 2-car Class 158/170 DMU, or 6-car Class 158/170
Cambridge	7	270	
Cambridge	8	270	
Cambridge Heath	1 (Up)	183.8	Suburban Line only
Cambridge Heath	2 (Down)	179.3	Suburban Line only
Cambridge North	1 (Up)	254	
Cambridge North	2 (Down)	254	
Cambridge North	3 (Bay)	254	
Camden Road	1 (Westbound)	109	
Camden Road	2 (Eastbound)	121	
Canonbury	3 (Westbound) NLL	106	
Canonbury	4 (Eastbound) NLL	124	

Station	Platform	Effective Length m	Notes
Cantley	1 (Up)	165	(118m in operational use)
Cantley	2 (Down)	159	(116m in operational use)
Chadwell Heath	1 (Up Main)	211	
Chadwell Heath	2 (Down Main)	213	
Chadwell Heath	3 (Up Electric)	214	
Chadwell Heath	4 (Down Electric)	213	
Chafford Hundred	Single	242	
Chalkwell	1 (Up)	248	
Chalkwell	2 (Down)	248	
Chappel & Wakes Colne	Single	107	TAWS fitted 3-car Class 755 units only
Chelmsford	1 (Up)	247	
Chelmsford	2 (Down)	248	
Cheshunt	1 (Up)	245	
Cheshunt	2 (Down)	257.7	
Cheshunt	3 (Bay)	168.6	
Chingford	1	172	
Chingford	2	197.2	
Chingford	3	164.9	
Clacton-on-Sea	1	213	
Clacton-on-Sea	2	259	
Clacton-on-Sea	3	197	
Clacton-on-Sea	4	245	
Clapton	1 (Up)	182.2	
Clapton	2 (Down)	189.5	
Colchester	1	251	
Colchester	2	260	
Colchester	3	248	
Colchester	4	318	(256m in operational use)
Colchester	5	220	
Colchester	6	223	
Colchester Town	Single	260	(250m in operational use)
Cressing	Single	178	10-car 720 permitted with ASDO operation
Cromer	1	139	
Cromer	2	139	
Crouch Hill	1 (Up)	88.2	
Crouch Hill	2 (Down)	88.3	
Dagenham Dock	1 (Up)	247	
Dagenham Dock	2 (Down)	243	
Dalston Kingsland	1 (Westbound)	107	
Dalston Kingsland	2 (Eastbound)	128	
Darsham	1 (Up)	81	
Darsham	2 (Down)	98	
Derby Road	1 (Up)	137	(80m in operational use)
Derby Road	2 (Down)	137	(74m in operational use)
Diss	1 (Up)	250	
Diss	2 (Down)	250	
Dovercourt	Single	166	
Downham Market	1 (Up)	183	
Downham Market	2 (Down)	181	
Dullingham	1 (Down)	82	
Dullingham	2 (Up)	86	
East Tilbury	1 (Up)	247	
East Tilbury	2 (Down)	245	

Station	Platform	Effective Length m	Notes
Eccles Road	1 (Down)	77	
Eccles Road	2 (Up)	77	
Edmonton Green	1 (Up)	188.1	
Edmonton Green	2 (Down)	188.7	
Elmswell	1 (Up)	77	
Elmswell	2 (Down)	54	4-car 755 permitted with ASDO operation
Elsenham	1 (Up)	165	10-car 720 permitted with ASDO operation
Elsenham	2 (Down)	167	10-car 720 permitted with ASDO operation
Ely	1 (Down)	256	
Ely	2 (Up)	256	
Ely	3 (Loop)	256	
Emerson Park	Single	87.5	
Enfield Lock	1 (Up)	167	L1046 relocation before ASDO can operated at location Jul 22
Enfield Lock	2 (Down)	165	10-car 720 permitted with ASDO operation
Enfield Town	1	182.5	
Enfield Town	2	182.5	
Enfield Town	3	176.2	
Felixstowe	Single	127	(90m in operational use)
Fenchurch Street	1	250	
Fenchurch Street	2	250	
Fenchurch Street	3	250	
Fenchurch Street	4	250	
Finchley Rd & Frognal	1 (Westbound)	106	
Finchley Rd & Frognal	2 (Eastbound)	128	
Forest Gate	1 (Up Electric)	173	9-car 345 permitted with ASDO operation
Forest Gate	2 (Down Electric)	178	The Driver <b>MUST</b> gain Signallers authority under S5 of RSSB Rule Book for 9-car reversals at these locations
Forest Gate	3 (Up Main)	190	The Driver <b>MUST</b> gain Signallers authority under S5 of RSSB Rule Book for 9-car reversals at these locations
Forest Gate	4 (Down Main)	198	The Driver <b>MUST</b> gain Signallers authority under S5 of RSSB Rule Book for 9-car reversals at these locations
Foxton	1 (Up)	105	Trains longer than 5 cars can call providing they are equipped with SDO (Selective Door Opening) equipment
Foxton	2 (Down)	174	
Frinton-on-Sea	Single	179	
Gidea Park	1 (Up Main)	211	
Gidea Park	2 (Down Main)	211	
Gidea Park	3 (Up Electric)	227	
Gidea Park	4 (Down Electric)	228	
Goodmayes	1 (Up Main)	212	
Goodmayes	2 (Down Main)	212	
Goodmayes	3 (Up Electric)	212	
Goodmayes	4 (Down Electric)	212	

Station	Platform	Effective Length m	Notes
Gospel Oak	1 (Westbound)	106	
Gospel Oak	2 (Eastbound)	113	
Gospel Oak	3 Bay	80.2	
Grays	1 (Up)	247	
Grays	2 (Down)	253	
Grays	3 (Third Line)	173	
Great Bentley	1 (Up)	176	10-car 720 permitted with ASDO operation
Great Bentley	2 (Down)	176	10-car 720 permitted with ASDO operation
Great Chesterford	1 (Up)	167	10-car 720 permitted with ASDO operation
Great Chesterford	2 (Down)	167	10-car 720 permitted with ASDO operation
Great Yarmouth	2	282	
Great Yarmouth	3	282	(180m in operational use)
Great Yarmouth	4	268	(174m in operational use)
Gunnersbury	1 (Westbound)	118	
Gunnersbury	2 (Eastbound)	130	
Gunton	Single	60	4-car 755 permitted with ASDO operation
Hackney Central	1 (Westbound)	126	
Hackney Central	2 (Eastbound)	126	
Hackney Downs	1 (Up)	209	10-car 720 permitted with ASDO operation
Hackney Downs	2 (Down)	180	8-car 710 permitted with ASDO operation 10-car 720 permitted with ASDO operation
Hackney Downs	3 (Up)	180.2	10-car 720 permitted with ASDO operation
Hackney Downs	4 (Down)	186.4	8-car 710 permitted with ASDO operation 10-car 720 permitted with ASDO operation
Hackney Wick	1 (Westbound)	126	
Hackney Wick	2 (Eastbound)	126	
Haddiscoe	1 (Up)	46	3/4-car 755 permitted with ASDO operation
Haddiscoe	2 (Down)	182	(85m in operational use)
Halesworth	1 (Up)	152	(66m in operational use) 4-car 755 permitted with ASDO operation
Halesworth	2 (Down)	96	(66m in operational use) 4-car 755 permitted with ASDO operation
Hampstead Heath	1 (Westbound)	109	
Hampstead Heath	2 (Eastbound)	102	
Harling Road	1 (Down)	90	
Harling Road	2 (Up)	127	
Harlow Mill	1 (Up)	168	10-car 720 permitted with ASDO operation
Harlow Mill	2 (Down)	168	10-car 720 permitted with ASDO operation
Harlow Town	1	251	
Harlow Town	2	251	
Harlow Town	3	251	
Harlow Town	4	251	
Harold Wood	1 (Up Main)	209	
Harold Wood	2 (Down Main)	211	
Harold Wood	3 (Up Electric)	209	
Harold Wood	4 (Down Electric)	211	
Harringay Green Lanes	1 (Up)	90.7	
Harringay Green Lanes	2 (Down)	90.6	
Harwich International	1	262	
Harwich International	2	264	
Harwich International	3 (Bay)	259	
Harwich Town	Single	166.2	(146.2m in operational use for Class 720)
Hatfield Peverel	1 (Up)	250	
Hatfield Peverel	2 (Down)	250	

Station	Platform	Effective Length m	Notes
Hertford East	1	165	Platforming lengthening proposed for Jul 22 – length and commissioning date TBC
Hertford East	2	165	Platforming lengthening proposed for Jul 22 – length and commissioning date TBC
Highams Park	1 (Up)	187.3	
Highams Park	2 (Down)	186.3	
Highbury & Islington NLL	7 (Westbound)	111	
Highbury & Islington NLL	8 (Eastbound)	113	
Hockley	1 (Up)	250	
Hockley	2 (Down)	250	
Homerton	1 (Westbound)	106	
Homerton	2 (Eastbound)	106	
Hoveton & Wroxham	1 (Up)	110	
Hoveton & Wroxham	2 (Down)	114	
Hythe	1 Up	250	
Hythe	2 Down	272	
Ilford	1 (Up Main)	226	
Ilford	2 (Down Main)	221	
Ilford	3 (Up Electric)	233	
Ilford	4 (Down Electric)	227	
Ingatstone	1 (Up)	248	
Ingatstone	2 (Down)	250	
Ipswich	1 (Bay)	135	Bi-mode units only able to use Country End as per Local Instruction.
Ipswich	2 (Up)	245	
Ipswich	3 (Down)	255	
Ipswich	4 (Down Loop)	254	
Kelvedon	1 (Up)	249	
Kelvedon	2 (Down)	257	
Kennett	1 (Down)	69	4-car 755 permitted with ASDO operation
Kennett	2 (Up)	62	4-car 755 permitted with ASDO operation
Kensal Rise	1 (Westbound)	106	
Kensal Rise	2 (Eastbound)	122	
Kentish Town West	1 (Westbound)	109	
Kentish Town West	2 (Eastbound)	109	
Kew Gardens	1 (Eastbound)	112	
Kew Gardens	2 (Westbound)	158	
King's Lynn	1	227	
King's Lynn	2	183	
Kirby Cross	1 (Up)	168	
Kirby Cross	2 (Down)	168	
Laindon	1	249	
Laindon	2	249	
Laindon	3	249	
Lakenheath	1 (Down)	149	
Lakenheath	2 (Up)	119	
Lea Bridge	1 (Up)	172	10-car 720 permitted with ASDO operation
Lea Bridge	2 (Down)	176	10-car 720 permitted with ASDO operation

Station	Platform	Effective Length m	Notes
Leigh-on-Sea	1	247	
Leigh-on-Sea	2	248	
Leigh-on-Sea	3	248	
Leyton Midland Road	1 (Up)	92.7	
Leyton Midland Road	2 (Down)	84.5	
Leytonstone High Road	1 (Up)	80.5	
Leytonstone High Road	2 (Down)	82.9	
Limehouse	1 (Up)	250	
Limehouse	2 (Down)	250	
Lingwood	Single	92	
Littleport	1 (Up)	86	Trains longer than 4 cars can call providing they are equipped with SDO (Selective Door Opening) equipment
Littleport	2 (Down)	167	
Liverpool Street	1	242	
Liverpool Street	2	252	
Liverpool Street	3	252	
Liverpool Street	4	252	
Liverpool Street	5	252	
Liverpool Street	6	252	
Liverpool Street	7	252	
Liverpool Street	8	252	
Liverpool Street	9	288	
Liverpool Street	10	248	
Liverpool Street	11	261	
Liverpool Street	12	246	
Liverpool Street	13	256	
Liverpool Street	14	246	
Liverpool Street	15	246	
Liverpool Street	16	205	
Liverpool Street	17	205	
London Fields	1 (Up)	177.5	Suburban Line only
London Fields	2 (Down)	194.9	Suburban Line only
Lowestoft	2	214	(119m in operational use)
Lowestoft	3	229	(119m in operational use)
Lowestoft	4	229	(119m in operational use)
Manea	1 (Down)	42	3/4-car 755 permitted with ASDO operation
Manea	2 (Up)	49	3/4-car 755 permitted with ASDO operation
Manningtree	1 (Bay)	108	5-car 720 permitted with ASDO operation
Manningtree	2 (Up)	245	
Manningtree	3 (Down)	235	10-car 720 permitted with ASDO operation 12-car 745 permitted with ASDO operation
Manor Park	1 (Up Electric)	168	9-car 345 permitted with ASDO operation
Manor Park	2 (Down Electric)	185	9-car 345 permitted with ASDO operation
Manor Park	3 (Up Main)	194	9-car 345 permitted with ASDO operation
Manor Park	4 (Down Main)	163	The Driver <b>MUST</b> gain Signallers authority under S5 of RSSB Rule Book for 9-car reversals at these locations
March	1 (Down)	112	
March	2 (Up)	116	
Marks Tey	1 (Up)	235	10-car 720 permitted with ASDO operation
Marks Tey	2 (Down)	247	
Marks Tey	3 (Sudbury)	50	3-car 755 permitted with ASDO operation & TAWS equipment fitted

Station	Platform	Effective Length m	Notes
Maryland	1 (Up Electric)	168	9-car 345 permitted with ASDO operation
Maryland	2 (Down Electric)	169	The Driver <b>MUST</b> gain Signallers authority under S5 of RSSB Rule Book for 9-car reversals at these locations
Maryland	3 (Up Main)	168	The Driver <b>MUST</b> gain Signallers authority under S5 of RSSB Rule Book for 9-car reversals at these locations
Maryland	4 (Down Main)	167	The Driver <b>MUST</b> gain Signallers authority under S5 of RSSB Rule Book for 9-car reversals at these locations
Meldreth	1 (Up)	128	Trains longer than 6 cars can call providing they are equipped with SDO (Selective Door Opening) equipment
Meldreth	2 (Down)	128	Trains longer than 6 cars can call providing they are equipped with SDO (Selective Door Opening) equipment
Melton	Single	73	(56m in operational use) 4-car 755 permitted with ASDO operation
Meridian Water	2 (Lea Valley Reversible)	160	
Meridian Water	3 (Up)	172	10-car 720 permitted with ASDO operation
Meridian Water	4 (Down)	173	10-car 720 permitted with ASDO operation
Mistley	1 (Up)	91	5-car 720 permitted with ASDO operation
Mistley	2 (Down)	93	5-car 720 permitted with ASDO operation
Needham Market	1 (Down)	83	
Needham Market	2 (Up)	71	
Newmarket	Single	231	(81m in operational use)
Newport	1 (Up)	168	10-car 720 permitted with ASDO operation
Newport	2 (Down)	167	10-car 720 permitted with ASDO operation
Northumberland Park	2 (Lea Valley Reversible)	193	
Northumberland Park	3 (Up)	172	Formerly up direction Platform 1 Platforming lengthening proposed - length and commissioning date TBC 12-car 745 permitted with ASDO operation
Northumberland Park	4 (Down)	173	Formerly down direction Platform 2 Platforming lengthening proposed - length and commissioning date TBC 12-car 745 permitted with ASDO operation
North Fambridge	1 (Up)	165	10-car 720 permitted with ASDO operation
North Fambridge	2 (Down)	189	10-car 720 permitted with ASDO operation
North Walsham	1 (Up)	106	
North Walsham	2 (Down)	101	
Norwich	1	298	
Norwich	2	296	
Norwich	3	250	
Norwich	4	255	
Norwich	5	198	
Norwich	6	132	Bi-mode or DMU traction only
Ockendon	1 (Down)	248	
Ockendon	2 (Up)	248	
Oulton Broad North	1 (Up)	146	(102m in operational use)
Oulton Broad North	2 (Down)	149	(89m in operational use)
Oulton Broad South	Single	151	(92m in operational use)

Station	Platform	Effective Length m	Notes
Pitsea	1	250	
Pitsea	2	250	
Pitsea	3	251	
Pitsea	4	244	
Ponders End	1 (Up)	167	10-car 720 permitted with ASDO operation
Ponders End	2 (Down)	166	10-car 720 permitted with ASDO operation
Prittlewell	1 (Up)	247	
Prittlewell	2 (Down)	247	
Purfleet	1 (Up)	266	
Purfleet	2 (Down)	246	
Rainham	1 (Up)	247	
Rainham	2 (Down)	242	
Rayleigh	1 (Up)	249	
Rayleigh	2 (Down)	250	
Rectory Road	1 (Up)	186	
Rectory Road	2 (Down)	187	
Reedham	1 (Up)	175	(91m in operational use)
Reedham	2 (Down)	192	(83m in operational use)
Richmond	3	120	
Richmond	4	120	
Richmond	5	120	
Richmond	6	129	
Richmond	7	129	
Rochford	1 (Up)	249	
Rochford	2 (Down)	249	
Romford	1 (Bay)	85.6	
Romford	2 (Up Main)	211	10-car 720 permitted with ASDO operation
Romford	3 (Down Main)	211	10-car 720 permitted with ASDO operation
Romford	4 (Up Electric)	211	10-car 720 permitted with ASDO operation
Romford	5 (Down Electric)	211	10-car 720 permitted with ASDO operation
Roughton Road	Single	60	4-car 755 permitted with ASDO operation
Roydon	1 (Up)	172	10-car 720 permitted with ASDO operation
Roydon	2 (Down)	170	10-car 720 permitted with ASDO operation
Rye House	1 (Up)	186	10-car 720 permitted with ASDO operation once infrastructure changes on HEB completed in Jul 22
Rye House	2 (Down)	170	10-car 720 permitted with ASDO operation once infrastructure changes on HEB completed in Jul 22
St James Street	1 (Up)	188.9	
St James Street	2 (Down)	189.6	
St Margarets	1 (Up)	199	10-car 720 permitted with ASDO operation once infrastructure changes on HEB completed in Jul 22 (L1241 Relocated)
St Margarets	2 (Down)	167	10-car 720 permitted with ASDO operation once infrastructure changes on HEB completed in Jul 22
Salhouse	1 (Up)	83	(75.3m in operational use)
Salhouse	2 (Down)	128.8	(81m in operational use)
Sawbridgeworth	1 (Up)	281	
Sawbridgeworth	2 (Down)	249	

Station	Platform	Effective Length m	Notes
Saxmundham	1 (Up)	113	
Saxmundham	2 (Down)	72	4-car 755 permitted with ASDO operation
Seven Kings	1 (Up Main)	180	9-car 345 permitted with ASDO operation 10-car 720 permitted with ASDO operation
Seven Kings	2 (Down Main)	180	9-car 345 permitted with ASDO operation 10-car 720 permitted with ASDO operation
Seven Kings	3 (Up Electric)	187	9-car 345 permitted with ASDO operation 10-car 720 permitted with ASDO operation
Seven Kings	4 (Down Electric)	187	9-car 345 permitted with ASDO operation 10-car 720 permitted with ASDO operation
Seven Sisters	1 (Up)	188.3	10-car 720 permitted with ASDO operation 12-car 745 permitted with ASDO operation
Seven Sisters	2 (Down)	185.1	10-car 720 permitted with ASDO operation 12-car 745 permitted with ASDO operation
Shelford	1 (Up)	180	10-car 720 permitted with ASDO operation
Shelford	2 (Down)	180	10-car 720 permitted with ASDO operation
Shenfield	1	249	
Shenfield	2	249	
Shenfield	3	255	
Shenfield	4	249	
Shenfield	5	245	
Shenfield	6	209	
Shepreth	1 (Up)	97	Trains longer than 4 cars can call providing they are equipped with SDO (Selective Door Opening) equipment
Shepreth	2 (Down)	171	
Sheringham	Single	80	
Shippea Hill	1 (Down)	147	(85m in operational use)
Shippea Hill	2 (Up)	132	(89m in operational use)
Shoeburyness	1	255	
Shoeburyness	2	264	
Shoeburyness	3	181	
Silver Street	2 (Down)	188.9	
Silver Street	1 (Up)	189.1	
Soham	Single	99	
Somerleyton	2 (Down)	148	
Somerleyton	1 (Up)	127	
South Acton	1 (Westbound)	116	
South Acton	2 (Eastbound)	106	
South Tottenham	1 (Up)	78.7	
South Tottenham	2 (Down)	72.5	
Southbury	1 (Up)	187.2	
Southbury	2 (Down)	187.5	
Southend Airport	1 (Up)	250	
Southend Airport	2 (Down)	250	
Southend Central	1	248	
Southend Central	2	251	
Southend Central	3	276	
Southend Central	4	248	
Southend East	1 (Up)	246	
Southend East	2 (Down)	246	
Southend Victoria	1	247.7	
Southend Victoria	2	254.8	
Southend Victoria	3	254.8	
Southend Victoria	4	249.5	

Station	Platform	Effective Length m	Notes
Southminster	Single	180	10-car 720 permitted with ASDO operation
South Woodham Ferrers	Single	264	
Spooner Row	1 (Down)	42	3/4-car 755 permitted with ASDO operation
Spooner Row	2 (Up)	48	3/4-car 755 permitted with ASDO operation
Stamford Hill	1(Up)	175.5	
Stamford Hill	2 (Down)	188.3	
Stanford-le-Hope	1 (Up)	257	
Stanford-le-Hope	2 (Down)	243	
Stansted Airport	1	332	
Stansted Airport	2	109	(97m in operational use)
Stansted Airport	3	291	
Stansted Mountfitchet	1 (Up)	255	
Stansted Mountfitchet	2 (Down)	255	
Stoke Newington	1 (Up)	164.1	8-car 710 permitted with ASDO operation
Stoke Newington	2 (Down)	161.3	8-car 710 permitted with ASDO operation
Stowmarket	1 (Up)	250	
Stowmarket	2 (Down)	250	
Stratford	1	133	NLL
Stratford	2	100	NLL
Stratford	5	253	Up Electric
Stratford	8	250	Down Electric
Stratford	9	256	Up Main
Stratford	10	249	Down Main
Stratford	10A	256	Avoiding Line
Stratford	11	231	Platforming lengthening proposed for Jul 22 – length and commissioning date TBC
Stratford	12	182	
Sudbury	Single	52	3-car 755 permitted with ASDO operation & TAWS equipment fitted
Theobalds Grove	1 (Up)	189.7	
Theobalds Grove	2 (Down)	187.2	
Thetford	1 (Down)	150	
Thetford	2 (Up)	111	
Thorpe Bay	1 (Up)	249	
Thorpe Bay	2 (Down)	249	
Thorpe-le-Soken	1	248	
Thorpe-le-Soken	2	248	
Thurston	1 (Up)	87	
Thurston	2 (Down)	86	
Tilbury Town	1 (Up)	249	
Tilbury Town	2 (Down)	247	
Tottenham Hale	2 (Lea Valley Reversible)	180	
Tottenham Hale	3 (Up)	254	Formerly up direction Platform 1
Tottenham Hale	4 (Down)	250	Formerly down direction Platform 2
Trimley	Single	141	(74m in operational use)
Turkey Street	1 (Up)	189.4	
Turkey Street	2 (Down)	189.2	
Upminster	1 (Up)	247	
Upminster	1a (Ockendon Bay)	143	8-car multiple unit ECS reversal permitted
Upminster	2 (Down)	247	
Upminster	6 (Romford)	91.7	

Station	Platform	Effective Length m	Notes
Upper Holloway	1 (Up)	99.7	
Upper Holloway	2 (Down)	91.8	
Waltham Cross	1 (Up)	170	
Waltham Cross	2 (Down)	184	
Walthamstow Central	1 (Up)	187.4	
Walthamstow Central	2 (Down)	182.3	
Walthamstow Queens Road	1 (Up)	84.7	
Walthamstow Queens Road	2 (Down)	84.7	
Walton-on-the-Naze	Single	175	(165m in operational use for Class 720)
Wanstead Park	1 (Up)	95	
Wanstead Park	2 (Down)	88.5	
Ware	Single	167	Platforming lengthening proposed for Jul 22 – length and commissioning date TBC
Waterbeach	1 (Up)	167	
Waterbeach	2 (Down)	167	No ASDO until issue with AHB Xing resolved
Watlington	1 (Up)	90	Trains longer than 4 cars can call providing they are equipped with SDO (Selective Door Opening) equipment
Watlington	2 (Down)	106	Trains longer than 5 cars can call providing they are equipped with SDO (Selective Door Opening) equipment
Weeley	1 (Up)	175	10-car 720 permitted with ASDO operation
Weeley	2 (Down)	175	10-car 720 permitted with ASDO operation
West Ham	7 Up	248	LTS route
West Ham	8 Down	248	LTS route
West Hampstead	1 (Westbound)	105	
West Hampstead	2 (Eastbound)	120	
West Horndon	1 (Up)	248	
West Horndon	2 (Down)	248	
West Runton	Single	97	
Westcliff	1 (Up)	248	
Westcliff	2 (Down)	248	
Westerfield	1 (Up)	100	(71m in operational use in Up Direction; 91m in Down Direction)
Westerfield	2 (Down)	100	(88m in operational use)
White Hart Lane	1 (Up)	188.6	12-car 745 permitted with ASDO operation
White Hart Lane	2 (Down)	188.6	12-car 745 permitted with ASDO operation
White Notley	Single	249	
Whittlesea	1 (Down)	45	3/4-car 755 permitted with ASDO operation
Whittlesea	2 (Up)	62	3/4-car 755 permitted with ASDO operation
Whittlesford Parkway	1 (Up)	254	
Whittlesford Parkway	2 (Down)	254	
Wickford	1 (Down Bay)	122.1	
Wickford	2 (Down)	248	
Wickford	3 (Up)	252	
Wickford	4 (Up Bay)	105	Class 720 <b>NOT</b> permitted into this platform
Wickham Market	Single	80	
Willesden Junction High Level	4 (Eastbound)	101	
Willesden Junction High Level	5 (Westbound)	126	

Station	Platform	Effective Length m	Notes
Witham	1 (Up Loop)	250	
Witham	2 (Up)	249	12-car 745 permitted with ASDO operation
Witham	3 (Down)	252	
Witham	4 (Down Loop)	250	
Wivenhoe	1 (Up)	248	
Wivenhoe	2 (Down)	248	
Wood Street	1 (Up)	184.2	
Wood Street	2 (Down)	188.3	
Woodbridge	1 (Down)	142	(130m in operational use)
Woodbridge	2 (Up)	129	(53m in operational use)
Woodgrange Park	1 (Up)	89.5	
Woodgrange Park	2 (Down)	88	
Worstead	Single	79	(69m in operational use) 4-car 755 permitted with ASDO operation
Wrabness	1 (Up)	86	5-car 720 permitted with ASDO operation
Wrabness	2 (Down)	90	5-car 720 permitted with ASDO operation
Wymondham	1 (Down)	126	
Wymondham	2 (Up)	92	

## 5.4.1 Loop Lengths

The table below shows the maximum length of train that may use each of the loops at the following locations. All lengths are in SLU (Standard Length Unit – a SLU measures 21 feet) and metres. All lengths are measured from the signal at the exit to the loop to the block joint in rear unless stated otherwise. All lengths quoted exclude allowance for locomotives or stand back unless stated otherwise. Check Sectional Appendix for locations where standage is not quoted.

<b>EA1011 SEVEN KINGS TO IPSWICH</b>				
LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Shenfield Up Passenger Loop	Up	74	473	Can be used for reversals towards Shenfield <ul style="list-style-type: none"> <li>Length extends to 140 SLUs / 890m for Up Passenger Loop plus Shenfield Platform 1</li> </ul>
Ingatestone Down Passenger Loop	Down	68	436	
Chelmsford Down Passenger Loop	Down	40	256	
Witham Down Passenger Loop	Down	42	269	Length extends to 103 SLUs / 659m for Down Passenger Loop plus Witham Platform 4 (n.b. this will be fouling Braintree branch)
Witham Up Passenger Loop	Up	41	263	Length extends to 113 SLUs / 723m for Up Passenger Loop plus Witham Platform 1
Marks Tey Up Passenger Loop	Up	73	468	
Colchester Down Goods Loop	Down	38	243	CO1051 signal clear of 3044 points
	Down	119	762	CO1051 signal clear of 3040 points
Colchester Up Goods Loop	Up	99	637	CO1028 signal clear of 3048 points
	Up	55	352	CO1036 signal clear of 3048 points
	Down	99	637	CO1055 signal clear of 3041 points
	Down	52	337	CO1055 signal clear of 3043 points
	Down	26	169	CO1023 signal clear of 3041 points
Colchester Up Passenger Loop	Up	60	384	

<b>EA1012 IPSWICH TO TROWSE JUNCTION</b>				
LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Claydon Down Goods Loop	Down	42	269	
Stowmarket Down & Up Goods Loop	Both	84	538	

<b>EA1013 TROWSE JUNCTION TO NORWICH</b>				
LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Trowse Down & Up Loop	Both	44	285	

**EA1060 WICKFORD JUNCTION TO SOUTHMINSTER**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
North Fambridge Crossing Loop	Down	40	256	
North Fambridge Crossing Loop	Up	40	256	

**EA1110 THORPE-LE-SOKEN JUNCTION TO WALTON-ON-THE-NAZE**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Kirby Cross Crossing Loop	Down	28	179	
Kirby Cross Crossing Loop	Up	30	192	

**EA1160 BETHNAL GREEN EAST JUNCTION TO BISHOP'S STORTFORD**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Broxbourne Down Passenger Loop	Down	65	416	Length extends to 92 SLUs for Down Passenger Loop plus Broxbourne Platform 4
Broxbourne Up Goods Loop	Up	65	416	Not electrified
Broxbourne Up Passenger Loop	Up	35	224	
Harlow Town Down Passenger Loop	Down	65	416	Includes Harlow Town Platform 4
Harlow Town Up Passenger Loop	Up	65	416	Includes Harlow Town Platform 1
Harlow Mill Down Goods Loop	Down	88	564	Not electrified
Bishop's Stortford Up Passenger Loop	Up	32	207	If reached from Platforms 1 or 2, or access to Carriage Sidings required <ul style="list-style-type: none"> <li>Length extends to 81 SLUs / 523m for Up Passenger Loop plus Bishop's Stortford Platform 3, will prevent access/egress to/from Carriage Sidings</li> <li>Additionally if accessed via Platform 3 length is 47 SLUs / 303m clear of platform, but will prevent access/egress to/from Carriage Sidings</li> </ul>

**EA1161 BISHOP'S STORTFORD TO ELY NORTH JUNCTION**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Stansted Mountfitchet Down Goods Loop	Down	67	429	
Great Chesterford Up Goods Loop	Up	80	512	
Whittlesford Parkway Down Goods Loop	Down	80	512	
Coldham Lane Down Goods Loop	Down	89	570	

**EA1161 BISHOP'S STORTFORD TO ELY NORTH JUNCTION**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Ely Down Goods Loop	Down	90	576	Between CA760 & CA255 No access to or from EA1540
Ely Down Goods/Freight Loop	Down	179	1145	Between CA760 & CA273 No access to or from EA1540
Ely Down Freight Loop	Down	60	384	Between CA762 & CA273 No access to or from Route EA1540
Ely Down Freight Siding	Down	60	384	Between CA764 & CA765 No access to or from Route EA1540
Ely Up Goods Loop	Both	85	544	Between CA287 & CA270 Access to or from Route EA1540 and Route EA1161 <ul style="list-style-type: none"> <li>Length extends to 111 SLUs / 710m between CA287 &amp; CA262. This allows access to or from Route EA1540 only</li> </ul> Not electrified
Ely Up Engineers Stabling Siding	Both	59	377	Between CA272 & CA769 Access to or from Route EA1540 via Up Main and Route EA1161 Not electrified

**EA1280 STRATFORD CENTRAL JUNCTION TO COPPERMILL JUNCTION**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Temple Mills Loop	Both	137	880	Between signals S715 and S706

**EA1300 SOUTH TOTTENHAM WEST JUNCTION TO SEVEN SISTERS JUNCTION**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Seven Sisters Chord	Both	14	92	Between signals L1327 and S16

**EA1320 CAMDEN ROAD WEST JUNCTION TO STRATFORD PLATFORMS 1 AND 2**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Lea Junction/Up Channelsea Loop (Signal NL1286)	Up (Westbound)	65	419	Clear of Up Channelsea Curve <ul style="list-style-type: none"> <li>Length extends to 110 SLUs / 707m clear of Stratford Central Junction (Down Temple Mills Line), will prevent trains passing on the Up Channelsea Curve from Stratford</li> </ul>

**EA1370 GOSPEL OAK TO BARKING TILBURY LINE JUNCTION WEST**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Upper Holloway Up Goods Loop (Up Reception Line)	Up	49	314	

**EA1380 FENCHURCH STREET TO SHOEBURYNNESS**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Gas Factory Loop	Up	38	244	

**EA1390 BARKING TILBURY LINE JUNCTION EAST TO PITSEA (VIA TILBURY)**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Departure Line (Ripple Road Junction Signal UR846)	Up	128	819	
Third Line	Down	104	665	Between West Thurrock Jn and Grays
Third Line	Up	122	780	Only available towards Ockendon

**EA1410 UPMINSTER TO WEST THURROCK JUNCTION**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Ockendon Up & Down Loop	Down	49	317	From UR991 including Platform 2
Ockendon Up & Down Loop	Up	75	484	From UR990 including Platform 2
Ockendon Platform 1	Down	48	312	Up & Down Ockendon from UR859
Ockendon Platform 1	Up	75	485	Up & Down Ockendon from UR858

**EA1440 WESTERFIELD JUNCTION TO FELIXSTOWE TOWN**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Derby Road	Down	118	755	Both tracks are bi-directional
Derby Road	Up	118	755	Both tracks are bi-directional

**EA1480 WHITLINGHAM JUNCTION TO CROMER**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
North Walsham	Down	50	320	
North Walsham	Up	50	320	

**EA1500 BRUNDALL JUNCTION TO YARMOUTH**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Acle	Down	40	256	
Acle	Up	27	170	

**EA1520 SAXMUNDHAM JUNCTION TO SIZEWELL**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Leiston	Both	19	121	

**EA1530 COLDHAM LANE JUNCTION TO HAUGHLEY JUNCTION**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Bury St Edmunds Down Goods Loop	Down	60	384	
Dullingham	Down	141	902	
Dullingham	Up	188	1203	Bi-directional

**EA1560 ELY NORTH JUNCTION TO KINGS DYKE (INCLUSIVE)**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
March Down Goods 1	Down	76	487	
March Down Goods 2	Down	74	474	
March Up Goods	Up	62	397	

**EA1580 ELY NORTH JUNCTION TO TROWSE JUNCTION**

LOCATION	DIRECTION	USABLE LENGTH		NOTES
		SLU	METRES	
Brandon Down Goods Loop	Down	75	480	

## 5.5 Timing Allowances

All allowances shown are in minutes.

Allowances apply at all times except where stated

All allowances are indicative for the Final Principal Rules and are subject to change.

No engineering allowance is to be added to Class 345s as a 5% allowance is included in the calculation of the SRTs.

E refers to engineering allowances

P refers to performance allowances

<b>EA1010 LIVERPOOL STREET TO SEVEN KINGS</b>				
<b>Approaching Location</b>	<b>Type</b>	<b>Value Down</b>	<b>Value Up</b>	<b>Remarks</b>
Bow Jn	E		1 2*	All ML and EL trains * Applies on Sundays or to trains which have run ML to Ilford/Stratford then EL
Stratford	E		1	ML trains towards Bow Jn

<b>EA1011 SEVEN KINGS TO IPSWICH</b>				
<b>Approaching Location</b>	<b>Type</b>	<b>Value Down</b>	<b>Value Up</b>	<b>Remarks</b>
Gidea Park	E	1	1	EL trains
	P		1	All ML trains arriving at Liverpool Street between 07:00 and 09:59 SX (except Bank Holidays)
Shenfield	E	1*	1	* Allowance to be applied at Shenfield London End Jn for ML trains running to Platforms 5/6 at Shenfield or to Platform 4 if using 2250 points
Witham	E	1	1	
Colchester	E	1^ 2*	1^	* Terminating services ^ Allowance to be applied approaching Colchester Goods Loop, TC or CS as appropriate if calling or terminating at those locations
Halifax Jn	E	1		
<b>For Bi-directional working</b>				
Shenfield	E		6	See Engineering Access Statement for detailed timings
Colchester	E	6		See Engineering Access Statement for detailed timings

<b>EA1012 IPSWICH TO TROWSE JUNCTION</b>				
Approaching Location	Type	Value Down	Value Up	Remarks
Europa Jn	E		1*	* Does not apply to Greater Anglia 9Pxx services
Trowse Jn	E	1		

<b>EA1050 SHENFIELD TO SOUTHEND VICTORIA</b>				
<b>Down</b>				
Approaching Location	Type	Value Down	Value Up	Remarks
Approaching Wickford	E		1	
Approaching Southend Victoria	E		1	For pathing purposes may instead be applied approaching Prittlewell
Approaching Southend Victoria	E		4	For the use of SIMBIDS. Including (Sun) and (MO). See Engineering Access Statement for detailed timings
<b>Up</b>				
Approaching Wickford	E		1	Terminating trains only
Approaching Mountnessing Jn	E		1	
Approaching Mountnessing Jn	E		4	For the use of SIMBIDS. Including (Sun) and (MO). See Engineering Access Statement for detailed timings

<b>EA1060 WICKFORD JUNCTION TO SOUTHMINSTER</b>				
<b>Down</b>				
Approaching Location	Type	Value Down	Value Up	Remarks
Approaching Southminster	E		1	
<b>Up</b>				
Approaching Wickford	E		1	Terminating trains only

<b>EA1070 WITHAM JUNCTION TO BRAINTREE</b>				
<b>Down</b>				
Approaching Location	Type	Value Down	Value Up	Remarks
Approaching Braintree	E		1	
<b>Up</b>				
Approaching Witham	E		1	Terminating trains only

<b>EA1090 COLCHESTER JUNCTION TO CLACTON-ON-SEA</b>				
<b>Down</b>				
Approaching Location	Type	Value Down	Value Up	Remarks
Approaching Thorpe-le-Soken	E		1	
Approaching Clacton	E		1	
<b>Up</b>				
Approaching Thorpe-le-Soken	E		1	Terminating trains only
Approaching Colchester	E		1	

<b>EA1100 EAST GATE JUNCTION &amp; HYTHE JUNCTION TO COLCHESTER TOWN</b>				
<b>Down</b>				
Approaching Location	Type	Value Down	Value Up	Remarks
Approaching Colchester Town	E		1	Applies to services starting from beyond Colchester (Main Line)
<b>Up</b>				
Approaching Colchester Main Line Station	E		1	Applies to services starting from beyond Colchester Town

<b>EA1110 THORPE-LE-SOKEN TO WALTON-ON-THE-NAZE</b>					
<b>Down</b>					Remarks
Approaching Walton-on-the-Naze	E		1		
<b>Up</b>					Remarks
Approaching Thorpe-le-Soken	E		1		

<b>EA1120 MANNINGTREE TO HARWICH TOWN</b>					
<b>Down</b>					Remarks
Approaching Harwich International/ Parkeston Yard	E		1		
Approaching Harwich International	E		10		Single Line Working. See Engineering Access Statement for detailed timings
<b>Up</b>					Remarks
Approaching Manningtree	E		1		Terminating trains only
Approaching Manningtree	E		10		Single Line Working. See Engineering Access Statement for detailed timings

<b>EA1150 CHANNELSEA SOUTH JUNCTION TO STRATFORD CENTRAL JUNCTION</b>					
<b>Up</b>					Remarks
Approaching Stratford Central Jn West	E		2		

<b>EA1160 BETHNAL GREEN EAST JUNCTION TO BISHOP'S STORTFORD</b>					
<b>Down</b>					Remarks
Approaching Broxbourne	E		1		
Approaching Bishop's Stortford	E		1		
<b>Up</b>					Remarks
Approaching Tottenham Hale	E		1		Applies approaching Tottenham South Jn for trains which do not call at Tottenham Hale
Approaching Hackney Downs	E		1		For pathing purposes may instead be applied approaching Clapton Junction on route EA1200
Approaching Hackney Downs	P		1		(via Southbury) Between 0700 and 1000 Mondays to Fridays only

<b>EA1161 BISHOP'S STORTFORD TO ELY NORTH JUNCTION</b>					
<b>Down</b>					Remarks
Approaching Shepreth Branch Jn	E		1		From the Audley End direction may be applied approaching Cambridge if required
	E		1 *		*From the Royston direction, allowance is usually applied approaching Shepreth Branch Jn on route EA1230 but may be applied approaching Cambridge when required
Approaching Ely Dock Junction	E		1		Applies to northbound trains terminating at Ely only
<b>Up</b>					Remarks
Approaching Stansted North Junction	E		1		Trains from Audley End and beyond only

<b>EA1162 ELY NORTH JUNCTION TO KING'S LYNN</b>					
<b>Down</b>					Remarks
Approaching King's Lynn Junction	E		1		
<b>Up</b>					Remarks
Approaching Ely North Jn	E		1		From Littleport direction

<b>EA1200 CLAPTON JUNCTION TO CHINGFORD</b>					
<b>Up</b>					Remarks
Approaching Clapton Jn	P		1		All trains arriving at Liverpool Street between 07:00 and 10:00 (SX except Bank Holidays)
Approaching Clapton Junction	E		*		*Allowance usually applied approaching Hackney Downs on route EA1160 may instead be applied approaching Clapton Junction. See EA1160 for details

<b>EA1210 BROXBOURNE JUNCTION TO HERTFORD EAST</b>					
<b>Down</b>					Remarks
Approaching Hertford East	E		1		

<b>EA1230 ROYSTON TO SHEPRETH BRANCH JUNCTION</b>					
<b>Down</b>					Remarks
Approaching Shepreth Branch Jn	E		1		May be applied approaching Cambridge if required. See EA1161 for details

<b>EA1280 STRATFORD CENTRAL JUNCTION TO COPPERMILL JUNCTION</b>					
<b>Up</b>					Remarks
Approaching Temple Mills East Jn	E		1		For passenger and ECS trains from Tottenham Hale

<b>EA1370 GOSPEL OAK TO BARKING TILBURY LINE JUNCTION WEST</b>					
<b>Up</b>					Remarks
Approaching Gospel Oak	E		1		

<b>EA1390 BARKING TILBURY LINE JN EAST TO PITSEA JN (VIA TILBURY)</b>					
<b>Down</b>					Remarks
Approaching Pitsea	P		1		All trains from Thames Haven Jn
<b>Up</b>					Remarks
Approaching Barking	P		1		All trains from Dagenham Dock to Fenchurch Street or Liverpool Street

<b>EA1410 UPMINSTER TO WEST THURROCK JUNCTION</b>					
<b>Down</b>					Remarks
Approaching Ockendon	P		1		Terminating trains only
<b>Up</b>					Remarks
Approaching Upminster	P		1		All trains off the Ockendon Branch

<b>EA1430 EAST SUFFOLK JUNCTION TO OULTON BROAD NORTH JUNCTION</b>					
<b>Down</b>					Remarks
Approaching Saxmundham	E		1		
Approaching Oulton Broad North Jn	P		1		From Ipswich
<b>Up</b>					Remarks
Approaching Woodbridge	E		1		
Approaching Boss Hall Junction	E		1		

<b>EA1440 WESTERFIELD JUNCTION TO FELIXSTOWE TOWN</b>					
<b>Down</b>					Remarks
Approaching Felixstowe Town	E		1		

<b>EA1450 TRIMLEY TO FELIXSTOWE NORTH QUAY FREIGHTLINER TERMINAL</b>					
<b>Down</b>					Remarks
Approaching Felixstowe North	E		2		

<b>EA1460 FELIXSTOWE BEACH JUNCTION TO FELIXSTOWE BEACH</b>					
<b>Down</b>					Remarks
Approaching Felixstowe Beach	E		2		

<b>EA1470 NORWICH THORPE JUNCTION TO LOWESTOFT</b>					
<b>Down</b>					Remarks
Approaching Coke Ovens Junction	E		1		From Ipswich or Norwich
<b>Up</b>					Remarks
Approaching Norwich Thorpe Junction	E		1		From Lowestoft, Yarmouth and Sheringham

<b>EA1490 CROMER TO SHERINGHAM</b>					
<b>Down</b>					Remarks
Approaching Sheringham	P				Train operator to specify performance time

<b>EA1500 BRUNDALL JUNCTION TO YARMOUTH</b>					
<b>Down</b>					Remarks
Approaching Yarmouth	E		1		

<b>EA1510 REEDHAM JUNCTION TO YARMOUTH</b>					
<b>Down</b>					Remarks
Approaching Yarmouth	E		1		

<b>EA1530 COLDHAM LANE JUNCTION TO HAUGHLEY JUNCTION</b>					
<b>Down (Eastbound)</b>					Remarks
Approaching Bury St Edmunds	E		1		
<b>Up (Westbound)</b>					Remarks
Approaching Bury St Edmunds	E		1		
Approaching Chippenham Jn	P		1		Applies only to Cambridge-bound passenger services if a Cambridge-Ipswich service is coming off the single line with a minimum margin of 2 minutes at Chippenham Jn
Approaching Coldham Lane Jn	E		1		

<b>EA1540 CHIPPENHAM JUNCTION TO ELY DOCK JUNCTION</b>					
<b>Down (Westbound)</b>					Remarks
Approaching Ely Dock Jn	E		1		Applies to all services

<b>EA1560 ELY NORTH JUNCTION TO KINGS DYKE (INCLUSIVE)</b>					
<b>Down (Westbound)</b>					Remarks
Approaching March	E		1		Allowance to be applied approaching March Down Yard if calling or terminating there
Approaching Peterborough East Junction	E		1		
<b>Up (Eastbound)</b>					Remarks
Approaching March West Junction	E		1		
Approaching Ely North Junction	E		1		

<b>EA1580 ELY NORTH JUNCTION TO TROWSE JUNCTION</b>					
<b>Down</b>					Remarks
Approaching Trowse Jn	E		1		From Thetford direction
<b>Up</b>					Remarks
Approaching Ely North Jn	E		1		From Thetford direction

## 6 Timetabling Considerations

### 6.1 Advertised and Working Times

It is not permissible for trains to be specified to be advertised to arrive before or depart after the booked times stated in the working timetable (WTT).

It is permissible for trains to be specified to be advertised to depart before the booked times stated in the working timetable in the following circumstances;

- (i) Where the WTT departure time is delayed to achieve the required headway behind a preceding train or margin following a conflicting move.
- (ii) As an aid to punctual departure where this practice has been agreed between the Train Operator and Network Rail.

By agreement between the Train Operator and Network Rail, trains may be specified to be advertised to arrive after the booked times stated in the WTT. This agreement is used instead of engineering/performance allowances.

### 6.2 Timing of Light Locomotives

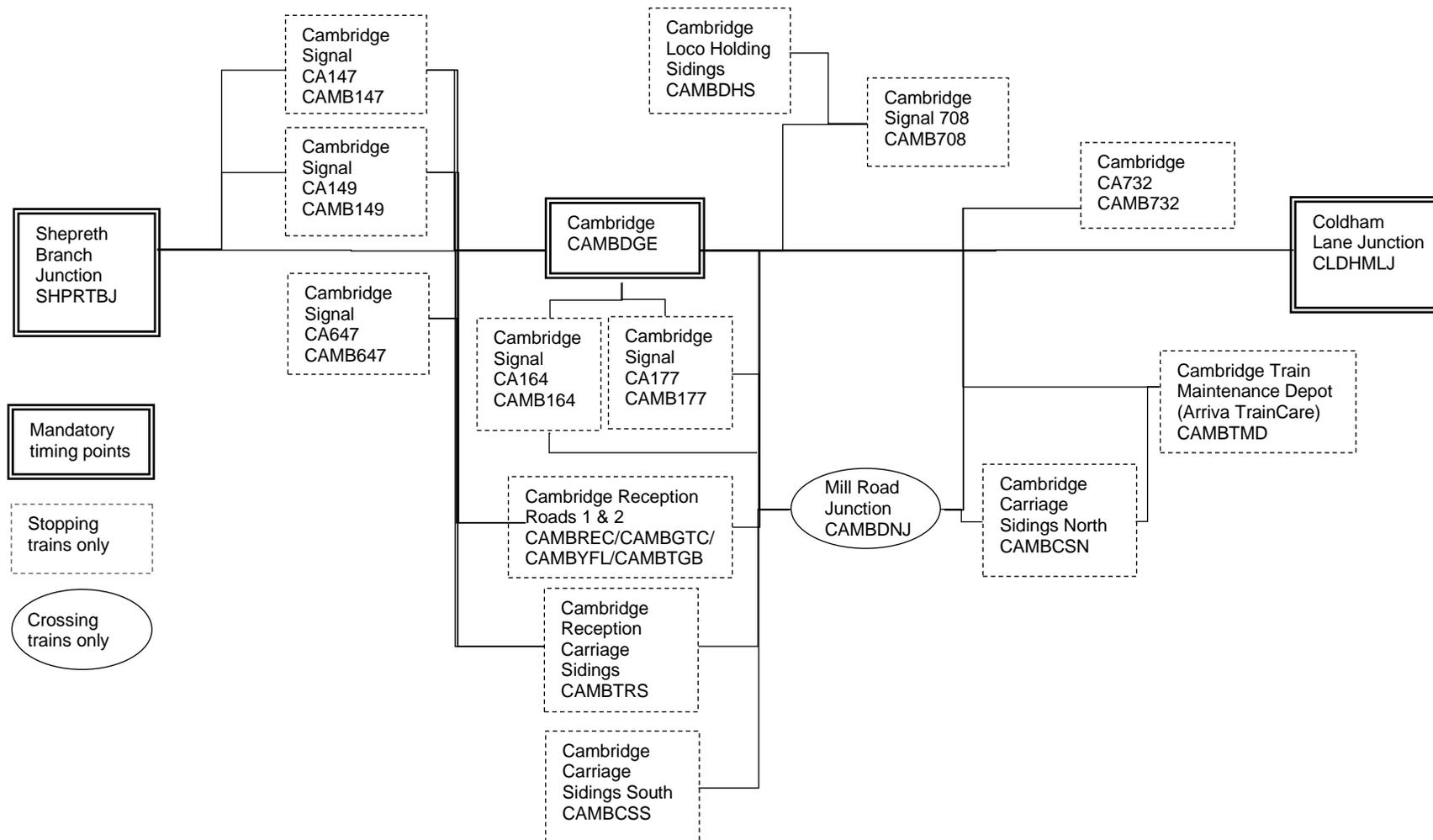
It is a general principle that all light locomotive movements will be timed. Any exceptions to this must be agreed by the appropriate Operational Planning Specialist.

### 6.3 Two–Track Timetable Railway

See Engineering Access Statement EA1010 & EA1011 Section 4 – Standard Possession Opportunities for details.

## Appendix A Timing Point Diagrams

The following diagram is supplementary to the information shown in section 2.1.

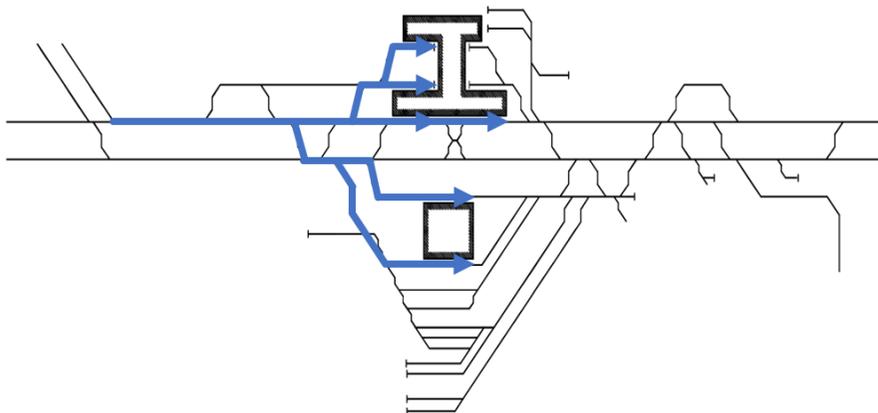


## Appendix B Route Code Diagrams

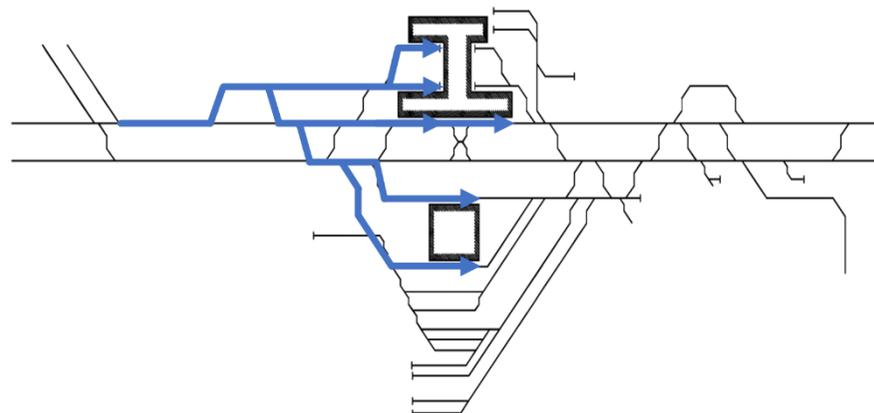
These diagrams are supplementary to information shown in section 2.1.

### Down direction route codes to Cambridge

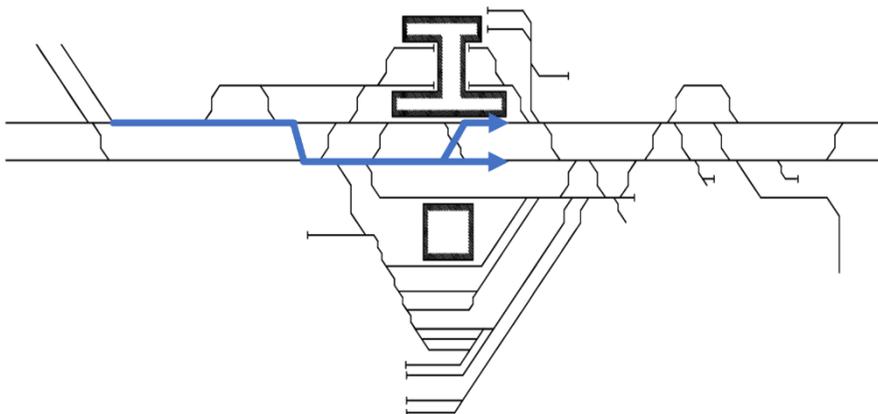
**DM** - Down Main



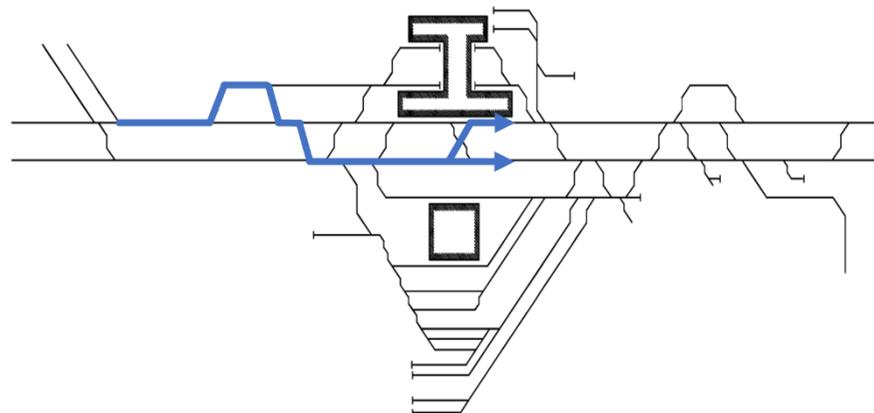
**DS** - Down Slow



**DMT** - Down Main then Through Line

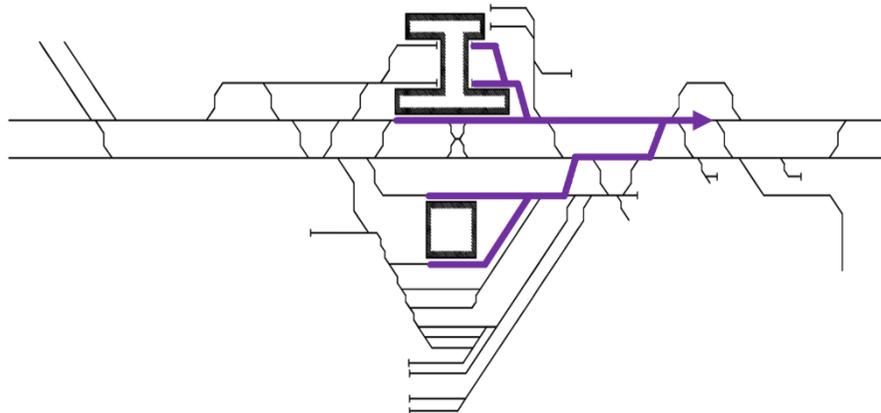


**DST** - Down Slow then Through Line

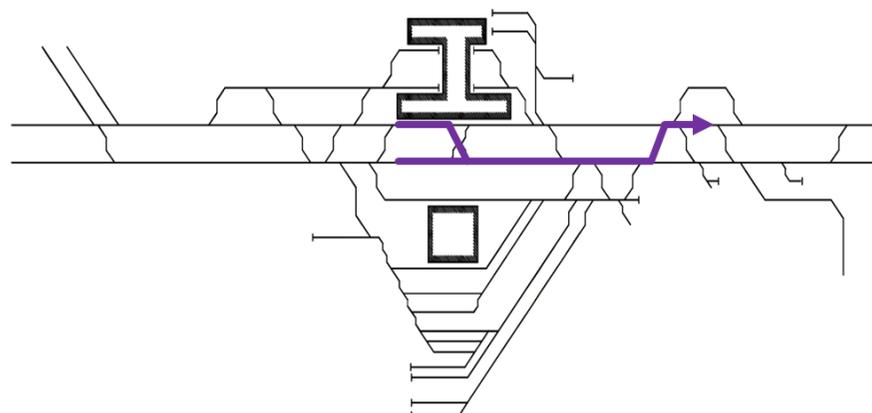


Down direction route codes from Cambridge

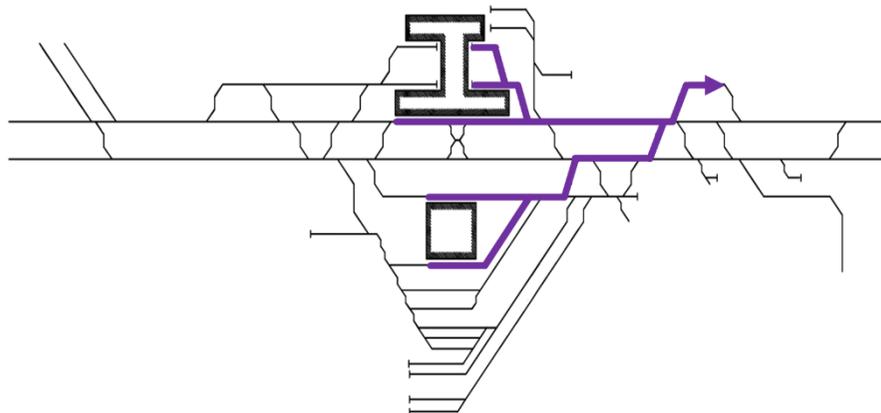
**DM** - Down Main



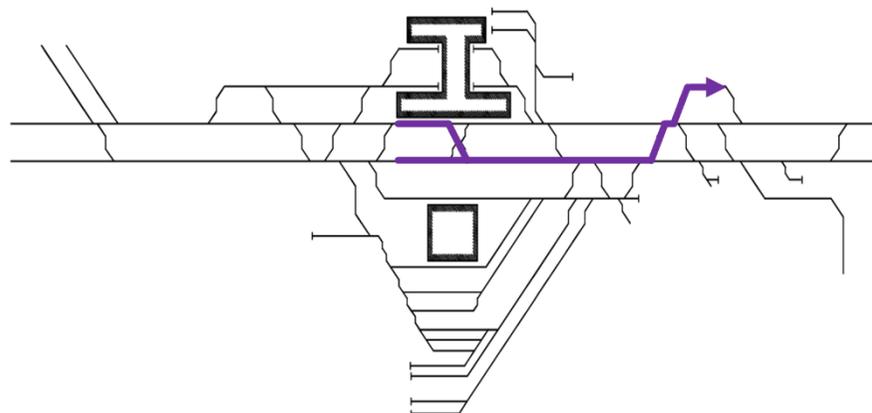
**TL** - Through Line



**DMG** - Down Main then Down Goods Loop

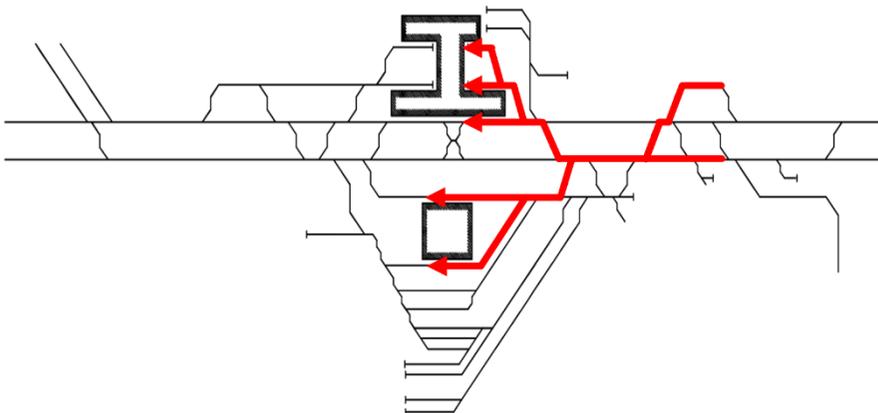


**TLG** - Through Line then Down Goods Loop

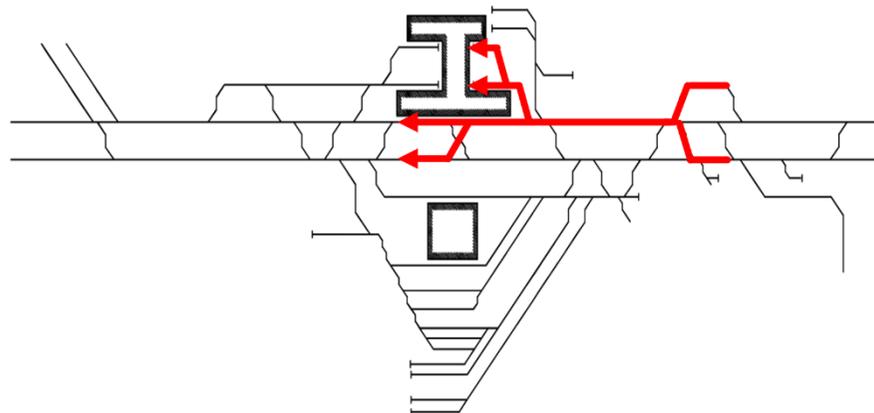


Up direction route codes to Cambridge

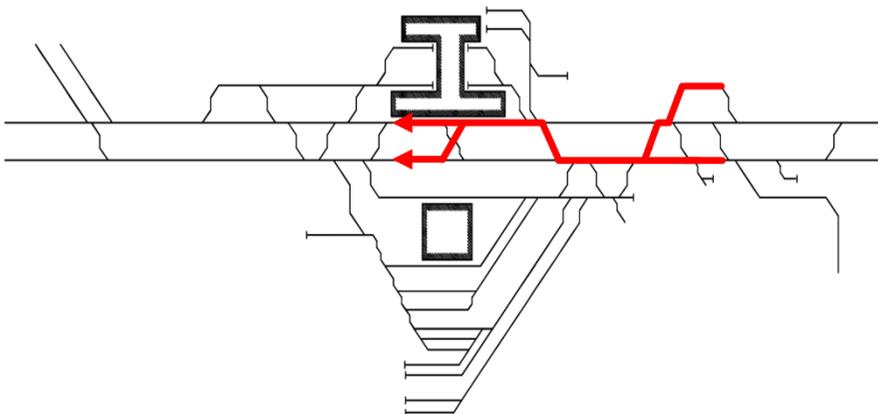
**UM** - Up Main



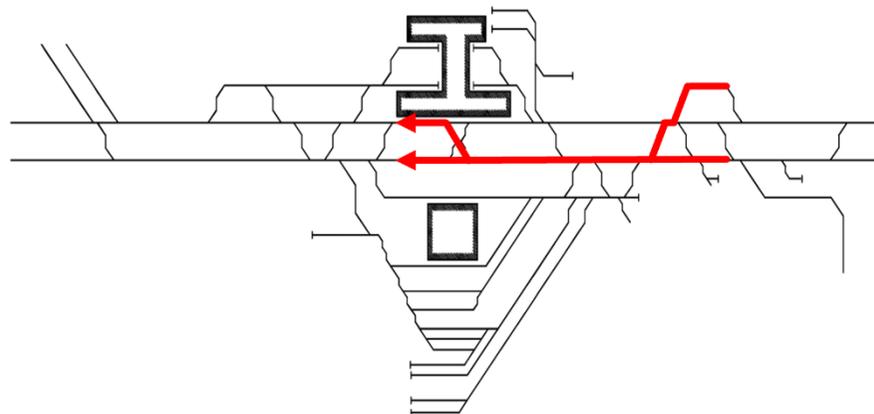
**UX** - Up trains running DM from 1092 or 1093 points



**UM4** - Up Main then via Platform 4

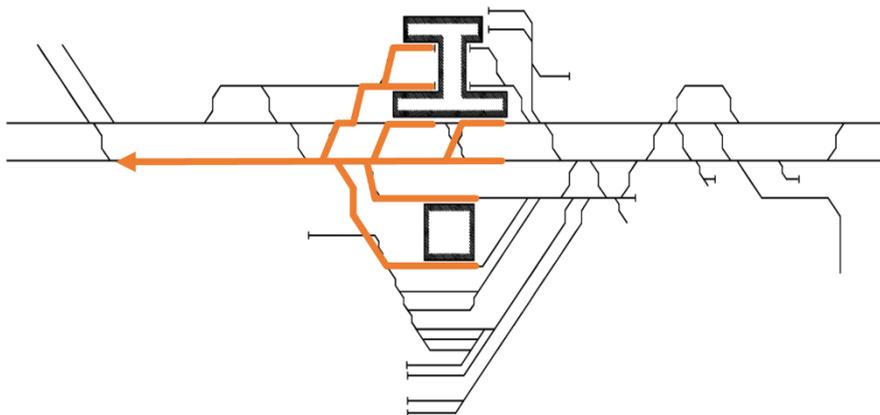


**UMT** - Up Main then Through Line

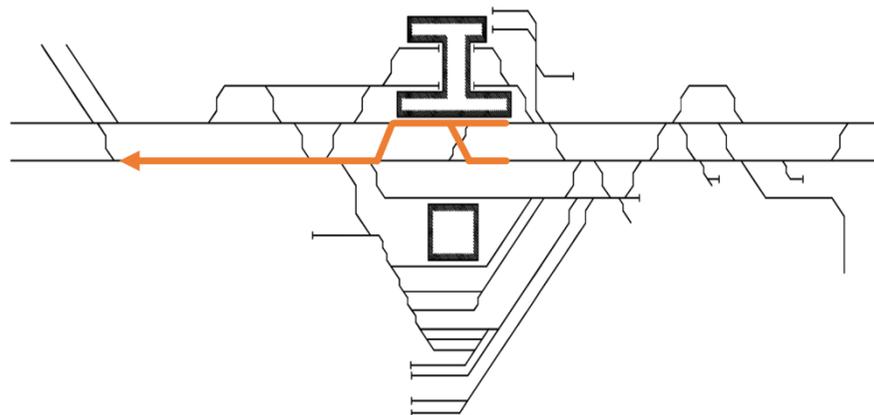


Up direction route codes from Cambridge

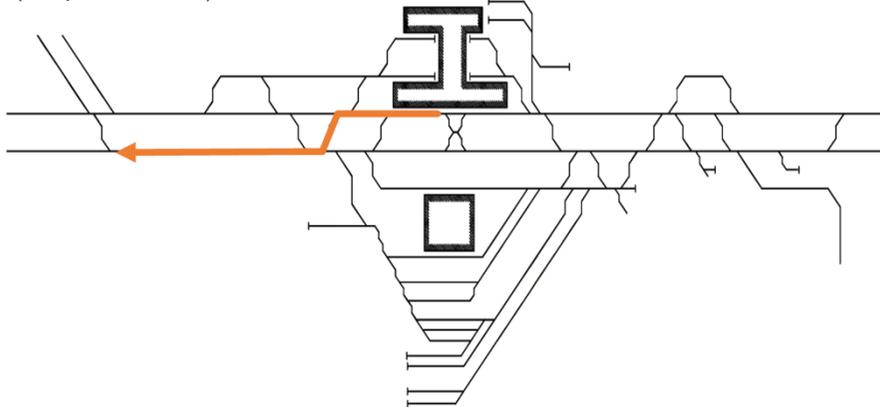
**UM** - Up Main



**1UM** - Up Main via Platform 1



**UX** - Up Main via 1052 points  
(non-preferred route)



**1UX** - Up Main via Platform 1 and 1052 points  
(non-preferred route)

