



Network Statement

2024



Revision Record

Version No.	Date	Comments
2019	06/02/2019	Access to facilities will be subject to provisions of Commission Implementing Regulation (EU) 2017/2177 of 22 November 2017 on access to service facilities and rail-related services. (section 2.2)
2019	02/04/2019	Revised track access charges as advised by the EFB (section 6.3) and valid for the period 2020 - 2024
2020	19/12/2019	1.3 Legal framework updated to account for future transposition into Irish law of Directive (EU) 2016/2370 of the European Parliament and of the Council of 14 December 2016 ¹
2020	19/12/2019	Updates to platform lengths and inclusion of new Limerick Junction Platform 4
2020	19/12/2019	Removal of reference to bulk cement
2020	19/12/2019	Minor changes to Hot Axle Box Detectors in line with general appendix and weekly circular
2021	01/01/2021	Updated appendices: 1,1A,1B,2,2A,5,6,7,9
2021	30/10/2021	<ul style="list-style-type: none"> Updated appendices: 1A, 1B, 1C to include new station at Pelletstown Clause 3.2 Extent of Network – number of stations and number of Platforms updated to reflect new station at Pelletstown Clause 3.6 Passenger Terminals (Stations)- Updated number of stations to include new station at Pelletstown. Updated Permanent Speed Restrictions (Appendix 4). Improved cross references following review of Regulations and SIs.
2022	30/11/2022	<ul style="list-style-type: none"> Provision of URL link to request a copy of the Weekly Circular. New Annex 1 with information on 2023 Disruptive Possession programme and high level information on 2024 and 2025 programmes. Revisions to the 'Capacity Allocation' chapter to better reflect the role of the EFB including the removal of Annex 1 which had set out the original working arrangement between the IM and the EFB. Revisions to the 'Services' Chapter to give clearer definition to the 'Minimum Access Package' on offer to registered RU's and to clarify what ancillary / additional services are not provided by the IM. Edits to 'Charges' Chapter to align with edits to the 'Services' Chapter. Update of Permanent Speed Restrictions (Appendix 4); update of CAWS Map (Appendix 5), update of Signalling & Control area map (Appendix 6) and update of Hot Axle Box Detectors map (Appendix 9).
2023	04/12/2023	<ul style="list-style-type: none"> Update reference year from 2023 – 2024 Update Annex 1 Update Appendix 4 New section 3.3.2.7 regarding Vehicle Overhang. Additional text I Section 3.4.6 re. application of sanding equipment Edit to billing arrangement (Section 6.6) re. EFB role

¹ OJ L352, 23.12.2016 p.1

Contents

1	GENERAL INFORMATION.....	5
1.1	Introduction	5
1.2	Objective.....	5
1.3	Legal Framework	5
1.4	Legal Status.....	6
1.5	Structure of the Network Statement.....	6
1.6	Validity & Updating Process	6
1.7	Publishing.....	7
1.8	Contacts	7
1.9	Rail Freight Corridors	7
1.10	RailNetEurope	7
1.11	Glossary	8
2	ACCESS CONDITIONS.....	10
2.1	Introduction	10
2.2	General Access Requirements.....	10
2.3	General Business / Commercial Conditions.....	12
2.4	Operational Rules.....	13
2.5	Exceptional Transports.....	13
2.6	Dangerous Goods.....	13
2.7	Rolling Stock Acceptance Process Guidelines.....	13
2.8	Staff Acceptance Process.....	14
3	INFRASTRUCTURE	15
3.1	Introduction	15
3.2	Extent of Network.....	15
3.3	Network Description.....	16
3.4	Traffic Restrictions.....	19
3.5	Availability of the Infrastructure.....	20
3.6	Passenger Terminals (Stations).....	21
3.7	Freight Terminals.....	21
3.8	Service Facilities	21
3.9	Infrastructure Development	22

4	CAPACITY ALLOCATION.....	23
4.1	Introduction	23
4.2	Capacity Allocation Process	23
4.3	Co-ordination Process	25
4.4	Dispute Resolution Process	26
4.5	Congested Infrastructure: Definition, Priority Criteria and Process	26
4.6	Operational Testing Period	26
4.7	Allocation of Capacity for Maintenance, Renewal and Enhancements ..	26
4.8	Non Usage Rules / Cancellation Rules	26
4.9	Exceptional Transport and Dangerous Goods	26
4.10	Special Measures to be taken in the event of Disturbance	27
4.11	Contact details	27
5	SERVICES.....	28
5.1	Introduction	28
5.2	Minimum Access Package	28
5.3	Supply of other additional / ancillary services	28
5.4	Supplementary Information	29
6	CHARGES	30
6.1	Charging Principles	30
6.2	Charging System	30
6.3	Tariffs	31
6.4	Performance Scheme	31
6.5	Changes to charges	32
6.6	Billing Arrangements	32
	Schedule 1: Variation Application Request Form	33
7	Annex 1.....	35
	Appendices.....	48

1 GENERAL INFORMATION

1.1 Introduction

This Network Statement is published in accordance with Statutory Instrument No. 249 of 2015 – European Union (Regulation of Railways) Regulations 2015 (hereinafter referred to as 'S.I. 249 of 2015') for the purpose of giving effect to EU Directive 2012/34 of the European Parliament and of the Council of 21 November 2012 establishing a single European railway area. This Network Statement is for the 2024 timetable period.

Iarnród Éireann was formed under the Transport Act 1986 and Córas Iompair Éireann (a statutory body wholly owned by the Government of Ireland) holds 100% of the issued share capital of the Company. Iarnród Éireann owns, operates and maintains the railway infrastructure in the Republic of Ireland. Córas Iompair Éireann owns both the land underlying the railway infrastructure and owns the stations.

1.2 Objective

The Network Statement is published for the use of applicants seeking infrastructure capacity in the Republic of Ireland as provided for in S.I. 249 of 2015.

The Network Statement gives the characteristics of the Iarnród Éireann infrastructure and details the general conditions for acquiring capacity on the Network and the use of associated services, where applicable. The Network Statement contains general rules, deadlines, procedures and criteria relating to charging systems and capacity allocation.

1.3 Legal Framework

On 12th June 2015 the Minister for Transport, Tourism and Sport approved S.I. 249 of 2015 entitled European Union (Regulation of Railways) Regulations 2015. These Regulations gave effect to EU Directive 2012/34. Iarnród Éireann is designated as the Infrastructure Manager for the purpose of these Regulations and references in the Directive and Regulations to the Infrastructure Manager shall be construed as references to Iarnród Éireann. Under S.I. 249 of 2015 any Railway Undertaking shall be granted access, subject to meeting safety and licencing requirements, to the State's railway infrastructure for the purpose of operating:

- international passenger services,
- international freight services,
- domestic freight services or
- international combined transport goods services,

The legal framework will be pursuant to Directive (EU) 2016/2370 of the European Parliament and of the Council of 14 December 2016 amending Directive 2012/34/EU to be transposed into national legislation, as regards the opening of the market for domestic passenger transport services by rail and the governance of the railway infrastructure.

² OJ L352, 23.12.2016 p.1

1.4 Legal Status

The contents of the Network Statement must be followed by Railway Undertakings wishing to use the Iarnród Éireann Network with particular reference to the technical conditions of the operations and their restrictions, capacity application, allocation and pricing. English is the operating language for the network. Additionally, Iarnród Éireann operates in compliance with the Official Languages Act 2003 (as amended) and all associated secondary legislation.

1.4.1 General Remarks

The Network Statement has been drawn up in accordance with S.I. 249 of 2015. In the event of any material differences between the Network Statement and legislation currently in force, the latter prevails.

1.4.2 Liability

This Network Statement is neither a Governmental Order nor a business proposal. Iarnród Éireann has prepared the Network Statement with care for the benefit of current and potential applicants. It is intended to be informative, but applicants should not place reliance on any item of information contained in it without first verifying with Iarnród Éireann the extent to which it is appropriate to do so. Iarnród Éireann assumes no liability for any damages either directly or indirectly, arising from any third-party use of this Network Statement or any website reference contained within it.

1.4.3 Appeals Procedure

Section 4.4.2 of the Network Statement outlines the appeals process available to Railway Undertakings in appealing against a capacity allocation decision as set out in the regulations.

With respect to the Network Statement, Iarnród Éireann invites anyone who has concerns regarding this report to raise them with us in order that we may consider how these concerns may be accommodated.

Concerns may be raised by contacting Iarnród Éireann at the following email address:
networkaccess@irishrail.ie

1.5 Structure of the Network Statement

The Network Statement has the following structure in line with general EU Guidance.

Chapter 1: General Information
Chapter 2: Access Conditions
Chapter 3: Infrastructure
Chapter 4: Capacity Allocation
Chapter 5: Services
Chapter 6: Charges

1.6 Validity & Updating Process

1.6.1 Validity Period

This Network Statement is valid for the 2025 timetable period (December 2024 – November 2025). The Network Statement is issued in advance to allow potential applicants the opportunity to apply for capacity in line with the regulations.

1.6.2 Updating Process

In the event of significant changes due to law amendment or important investment, this document may be updated if Iarnród Éireann considers it necessary. Law and other legal texts are applied regardless of the status of the Network Statement.

While this Network Statement is in force any important changes or updates of the information contained will be published as addenda to this document or as a revised edition with changes clearly highlighted, if required.

1.7 Publishing

The Network Statement is only published as an electronic document. It is available to download free of charge on the Iarnród Éireann website at: www.irishrail.ie

1.8 Contacts

Applicants seeking further information on the characteristics of the Iarnród Éireann infrastructure, on the general conditions for acquiring capacity and the use of associated facilities should contact Iarnród Éireann by e-mail at networkaccess@irishrail.ie for additional information.

1.9 Rail Freight Corridors

The Network Statement contains general information in relation to rail freight. Freight references are contained in Chapter 3 and Chapter 5 including freight related specific information which can be found in the general Appendices.

1.10 RailNetEurope

Members of Rail Network Europe (RNE) have agreed a common structure for drafting Network Statements in accordance with Annex IV of Directive 2012/34/EU. This Network Statement is in accordance with the RNE agreed common structure.

Further information can be obtained on the RailNetEurope home page: www.railneteurope.com

1.11 Glossary

Term	Definition
Access Charge	The charge paid by railway operators for access to rail facilities.
Access Contract	An agreement setting out the terms and conditions under which companies / operators obtain access to rail infrastructure.
Access Package	The totality of services provided to a Railway Undertaking when it is granted access to a network by an Infrastructure Manager.
Ad Hoc Request	An Applicant's request for an individual train path (available as spare capacity) outside the time scale that the Allocation Body normally uses.
Allocation Process	The process by which capacity is granted to an Applicant by the Infrastructure Manager or relevant capacity Allocation Body; this capacity is available for the duration of the working timetable period only.
Appeals Procedure	The method for challenging a decision made by an Allocation Body or Infrastructure Manager. Any applicant for a train path that feels it is a victim of unfair treatment or discrimination (for example, following a decision by an IM /EFB regarding the allocation of capacity) may appeal to the authority responsible for resolving such disputes; in most cases, this is the national Regulatory Body. Refer to section 4.4.2. for further information.
Applicant	A Railway Undertaking which requests track capacity.
Congested Infrastructure	Section of infrastructure for which the demand for capacity cannot be fully satisfied during certain periods, even after coordination of all the requests for capacity.
Cover of Liabilities	An insurance against the costs suffered as a result of injury, damage or loss.
CRR (Regulatory Body)	The Commission of Railway Regulation is the National Safety Authority for the railway sector in the Republic of Ireland. The CRR ensures conformity assessment, compliance supervision / enforcement and European / Legislation harmonisation. Originally called the Railway Safety Commission (RSC), established on 1 st January 2006 in accordance with the requirements of the Railway Safety Act 2005, with effect from Monday 29 th February 2016 it was renamed as the CRR.
CTC	Centralised Traffic Control
EFB	Essential Functions Body
Framework Agreement	Expression used in EU Directives as referring to a general agreement setting out rights and obligations in relation to infrastructure capacity to be allocated and the related charges for a period longer than one working timetable period.
Iarnród Éireann (IÉ)	National Railway company of the Republic of Ireland
Infrastructure Manager (IM)	Body responsible for establishing and maintaining railway infrastructure
Minimum Access Package	A package of access rights conferred by Directive 2012/34/EU Point 1 Annex II
Network Statement	DIRECTIVE 2012/34/EU defines the Network Statement as the Statement which sets out in detail the general rules, deadlines, procedures and criteria for charging and capacity allocation schemes including such other information as is required to enable application for infrastructure capacity.
Operating Rules	Rules applicable to railway operations (planning, crewing, movement and control of trains).
Path	Infrastructure capacity needed to run a train between two places over a given time-period
Path Allocation Process	Process that involves assigning specific train paths to railway operators.

Railway Undertaking (RU)	EU definition: 'any public or private undertaking licensed according to applicable Community legislation, the principal business of which is to provide services for the transport of goods and/or passengers by rail'.
Railway Safety Directive	means Directive 2004/49/EC of the European Parliament and of the Council of 29 April 2004 (as amended by Directive 2008/57/EC of the European Parliament and of the Council of 17 June 2008, Directive 2008/110/EC of the European Parliament and of the Council of 16 December 2008 and Commission Directive 2009/149/EC of 27 November 2009)
Railsys	A suite of software programmes specialising in rail infrastructure data management, timetable construction / slot management, track possession planning, simulation and the evaluation of variants and discovery of conflicts.
Statutory Instrument (SI)	An order, regulation, rule, scheme or byelaw made in exercise of a power conferred by statute.
Timetable	A schedule listing the times at which certain events, such as arrivals and departures at a transport station, are expected to take place. The timetable defines all planned train and rolling-stock movements which will take place on the relevant infrastructure during the period for which it is in force.
Timetable Period	A timetable period means the period of operation of a Working Timetable; it starts on the day of a timetable change (change date).
Timetable Planning Process	A complex process of consultation and planning which defines the data relating to all train and rolling-stock movements that are expected to take place on the relevant infrastructure during the period of validity of the timetable. Detailed train timings are agreed by IMs and RUs.

2 ACCESS CONDITIONS.

2.1 Introduction

This chapter sets out access requirements to operate on the Iarnród Éireann Network. In addition, the rolling stock acceptance process, staff acceptance process and licencing / safety certification requirements are described in this chapter.

2.2 General Access Requirements

The legal framework governing access to infrastructure is described in S.I. No. 249 of 2015 European Union (Regulation of Railways) Regulations 2015.

Access to facilities will be subject to provisions of Commission Implementing Regulation (EU) 2017/2177 of 22 November 2017 on access to service facilities and rail-related services.

2.2.1 Requirements to Apply for a Train Path

Applicants may be (a) licensed Railway Undertakings or (b) international groups of railway companies and other individuals or companies with a public service or commercial interest in acquiring infrastructure capacity. A third party may not apply for train paths on behalf of a Railway Undertaking.

Operation of rail traffic on the Iarnród Éireann Network requires that Railway Undertakings and international groupings meet all of the following conditions:

1. The Railway Undertaking or international grouping shall have an operating licence.
2. The licence holder shall have a safety certificate in accordance with the Railway Safety Act 2005.
3. Capacity has been allocated by the EFB to the Railway Undertaking.
4. The licence holder shall have an access contract with Iarnród Éireann.

As per Article 13 of S.I. No. 249 of 2015, an application for the allocation of railway infrastructure capacity may be submitted to the EFB for each timetable period by a railway undertaking established, or to be established, in the State or another Member State.

Under the regulations an application for the allocation of railway infrastructure capacity shall only be considered if it is:

- (a) in accordance with such form as the EFB may from time to time direct, and accompanied by –
 - (i) proof that the Applicant is entitled to apply for infrastructure capacity in the State.
 - (ii) a safety certificate issued to the Applicant under the Regulations of 2020 (S.I. No.476/2020 – European Union (Railway Safety) Regulations 2020) or, in another Member State, the corresponding requirements, as applicable.
 - (iii) a bond in favour of the Infrastructure Manager, that is guaranteed by a bank and is for an amount equal in value to 5 per cent of the total cost to the Applicant of providing the services for which the allocation is required, or with the Infrastructure Manager’s approval, proof of an equivalent arrangement that meets those requirements, and
 - (iv) an application fee of €750.

The EFB may at his discretion waive the fees associated with (iii) and (iv) above.

Capacity allocated to any Railway Undertaking by the EFB is non-transferable and non-tradable.

2.2.2 Who is allowed to Perform Train Operations

The following have a right of access to the railway infrastructure:

- Iarnród Éireann (national railway company of the Republic of Ireland) for all its activities involving the carriage of passengers and goods.
- Any railway undertaking established in a European Union Member State, for the operation of international passenger transport.
- Any railway undertaking established in a Member State of the European Union for any type of good transport.
- The rail Infrastructure Manager or its agents for the purposes of maintenance, renewal and extension of the rail infrastructure, in compliance with the safety rules imposed on all users of the rail infrastructure and with due regard to the train paths which have been allocated to the Railway Undertakings.

2.2.3 Licences

The Commission for Railway Regulation (CRR) issues operating licences to applicants established in Ireland in accordance with S.I. NO. 249 of 2015. The licence is valid from the time of issue and is renewable every five years during the currency of the licence. An operating licence issued in any other E.U. state is valid throughout the E.U.

The prerequisite for granting the operating licence is that the main activity of the undertakings is to operate rail traffic. The undertakings must have a safety certificate issued or approved by the CRR, must be of solid financial standing, have a competent management team and sufficient liability insurance. The CRR may limit the services that may be provided under a licence.

2.2.4 Safety Certificate

The Railway Safety Commission (RSC) in Ireland was formally established on 1st January 2006 in accordance with the requirements of the Railway Safety Act (RSA) 2005. The RSC was renamed the Commission for Railway Regulation (CRR) on 29th February 2016 to reflect the wider regulatory responsibilities for the railway sector in Ireland that were assigned to the RSC under S.I. No. 249 of 2015. In the context of Directive 2004/49/EC (the Railway Safety Directive - RSD), subsequent amendments and transposition into Irish law (S.I. No. 476/2020 - European Union (Railway Safety) Regulations 2020) the CRR is the National Safety Authority for the railway sector in the Republic of Ireland.

Safety Certificates are issued to Railway Undertakings (RUs) by the CRR in accordance with the requirements of the RSD and S.I. No. 476/2020 - European Union (Railway Safety) Regulations 2020. The validity of Safety Certificates shall not exceed a period of five (5) years.

The purpose of the Safety Certificate is to provide evidence that the RU -

(a) has established its Safety Management System in accordance with Article 9 and Annex III of the RSD, and.

(b) can meet the requirements laid down in the Technical Specifications for Interoperability (TSI) and other relevant European Community legislation, and in National Safety Rules, in order to control risks and provide rail transport services safely on the network.

An RU's Safety Management System and Safety Certificate shall be wholly or partly updated whenever the type or extent of its operation is substantially altered and shall, in any case, be renewed at intervals not exceeding five (5) years. RUs shall, without delay, inform the CRR of any major change in the conditions of the Safety Certificate and any consequential changes to the Safety Management System and, furthermore, shall notify the CRR in advance of introducing any new category of staff or any new types of rolling stock, or substantially modified rolling stock that may require an authorisation for placing in service. The CRR may require that the Safety Certificate be revised following any substantial change in the safety regulatory framework.

2.2.5 Cover of Liabilities

A Railway Undertaking shall have sufficient liability insurance or other corresponding arrangement in place. The nature and scope of the operations must be taken into account in evaluating the sufficiency of the insurance or similar arrangement. The required insurance cover must be in force for the period stipulated by the CRR but at a minimum for the duration of the Access Contract. All subcontractors will also be required to have a required level of insurance cover in place.

2.3 General Business / Commercial Conditions

2.3.1 Framework Agreement

Framework agreements can be drawn up between Iarnród Éireann IM and an Applicant RU specifying the capacity characteristics of the requested infrastructure by the Applicant which Iarnród Éireann IM will supply for a longer period than the length of one timetable. A framework agreement will normally last for a period of five years. Further information can be obtained from the Infrastructure Manager at networkaccess@irishrail.ie.

2.3.2 Access Contracts

Each Railway Undertaking must enter into an Access Contract with Iarnród Éireann IM concerning the use of the railway, as well as the capacity to which the Railway Undertaking has a right or can acquire a right to use. The Access Contract sets out the general administrative, technical and financial conditions governing the use of the Network for the contracted services.

The model Access Contract and corresponding General Terms and Conditions are contained in Appendix 11. A specific Access Contract is finalised after negotiations between the parties involved.

2.4 Operational Rules

All Railway Undertakings are bound to follow and comply with the operating rules published by Iarnród Éireann and the technical regulations associated therewith.

A combination of the following three documents covers the operating rules which a Railway Undertaking must comply with:

1. The Rule Book
2. The Working Timetable
3. The 'General Appendix to the Working Timetable'

A document entitled the 'Weekly Circular' is also circulated by the Infrastructure Manager and this is the vehicle by which the Infrastructure Manager advises relevant parties of any proposed changes to the three documents mentioned above. These documents are available on request from Iarnród Éireann and Registered RUs can request the Weekly Circular via the following link: <https://www.irishrail.ie/en-ie/about-us/iarnrod-eireann-network-statement/weekly-circular-information>

All Railway Undertakings must also comply fully with existing national safety standards.

2.5 Exceptional Transports

A transport is deemed to be exceptional within the meaning of UIC (International Union of Railways) Leaflet 502-1 where it causes particular difficulties as a result of its size, weight, or packaging, in relation to the fixed installations or wagons of one of the networks/Railway Undertakings to be used and where, because of that fact, it can be accepted only in special technical or operating conditions.

Exceptional Transport can take place only under special conditions defined and agreed by Iarnród Éireann in advance.

2.6 Dangerous Goods

The carriage of dangerous goods by rail is governed by S.I. 651 of 2010 entitled European Communities (Transport of Dangerous Goods by Rail). These rules are based on the RID, CIM and COTIF regulations of the European Union. Applicants intending to transport Dangerous Goods must provide full details of the nature of the goods to be transported by rail in their application/s for capacity to the Infrastructure Manager.

2.7 Rolling Stock Acceptance Process Guidelines

In Ireland the Authorisation for Placing in Service (APS) of new, upgraded or renewed Rolling Stock will be given by the CRR. This requires an application to be submitted in line with European and Irish legal requirements. The CRR has produced guidance for the Process of Authorisation for Placing in Service of Railway Sub Systems, most notably RSC-G-009. The latest version of guidelines for the safety assessment of new infrastructure works and new rolling stock is available on the CRR website (www.crr.ie).

<http://www.crr.ie/publications/guidelines-for-the-safety-assessment-of-new-infrastructure-works-and-new-rolling-stock/>

In addition to the APS process, it will be necessary in the interest of safe integration and technical compatibility of Rolling Stock to follow certain standards which have been defined by the Infrastructure Manager. Further information can be obtained by contacting.

Director IM,
Iarnród Éireann,
Engineering & New Works Building,
Inchicore,
Dublin 8.
Phone: 01 707 3849
Email: eamonn.ballance@irishrail.ie

2.8 Staff Acceptance Process

An essential aspect of safety is the training and certification of staff, particularly of train drivers. Driver training covers operating rules, the signalling system, the knowledge of routes and emergency procedures.

Each railway undertaking shall be responsible for the level of training and qualifications of any member of its staff carrying out safety-related work as set out in Article 9 of, and Annex III to, Directive 2004/49/EC.

The requirements for Train Driver Certification are set out in the Train Driver Directive 2007/59/EU. The CRR has produced Guidelines on the application of the Train Driver Directive, RSC-G-025, the latest version of this Guideline is available on the CRR website <http://www.crr.ie/publications/guidelines/train-driver-directive/>. These Guidelines provide information for Training Centres, Examination Centres, Trainers, Examiners, RUs, IMs, Train Drivers and Candidate Drivers.

The CRR is the Competent Authority for the purposes of the Train Driver Directive.

Commission for Railway Regulation.
Temple House
57 Temple Road
Blackrock
Co. Dublin A94 Y5W5
Tel: 01-2068110
E-Mail: info@crr.ie

3 INFRASTRUCTURE

3.1 Introduction

Infrastructure refers to the state-owned rail network managed by Iarnród Éireann (IÉ). IÉ is responsible for the construction and maintenance of all elements of the rail system in Ireland, including, but not limited to, tracks, signalling systems, buildings, structures etc.

3.2 Extent of Network

The Iarnród Éireann network currently extends to approximately 2,400 km of operational track, c.4,440 bridges, c. 1,100-point ends, c.970 level crossings, 145 stations, 3,300+ cuttings and embankments, 372 platforms and 13 tunnels. The network includes main line, Dublin suburban and commuter passenger routes, together with freight-only routes.

More detailed information on the network is provided within Appendices 1 to 1D.

Route Information Books are under development for all Routes on the Iarnród Éireann Network. This is a comprehensive document detailing information about the infrastructure along the entire route. Books, where published, can be obtained from the Infrastructure Manager.

3.2.1 Limits

A number of lines are currently not available for traffic, these being:

Athenry - Claremorris
Claremorris - Collooney
Midleton - Youghal
Navan - Kingscourt
Mullingar - Athlone
Waterford – Rosslare Strand
Limerick – Foynes
Tralee – Fenit
Waterford – New Ross

No part of the network is classified as 'specialised infrastructure'.

No part of the network is classified as 'congested infrastructure'.

The following are Freight-Only lines:

Drogheda – Tara mines
Waterford - Belview Port

3.2.2 Connected Railway Networks

There is a cross-border connection to the railway system in Northern Ireland between Dundalk and Newry. The distance from Dundalk Station to the border is 8.4km and the distance from Newry Station (in Northern Ireland) to the border is 15.5km.

The infrastructure manager in Northern Ireland is as follows: -

Infrastructure Executive,
NI Railways,
3 Milewater Road,
Belfast BT3 9BG
Northern Ireland

There are a number of private lines serving a number of industrial locations e.g., Dublin Port, Irish Cement factory at Platin Drogheda County Louth and Tara Mines Navan County Meath.

3.3 Network Description

3.3.1 Geographic Identification

3.3.1.1 Track Configuration

The extent of single / double / multiple track is shown graphically in Appendix 1 and is summarised as follows:

Mainline – Single extends to 1178 km

Mainline – Double extends to 886 km

Mainline - Multiple extends to 60 km

3.3.1.2 Track Gauge

Plain Line

The nominal installed track gauge for plain line track is:

a) Track with rails inclined at 1 in 40 (concrete) 1602 mm

b) Track with rails inclined at 1 in 20 or vertical 1600 mm

Points and Crossings

Nominal track gauge for new construction must be 1600 mm for all P&C except for type 113A vertical layouts and “V” Series 50 kg FB which can be 1597 mm.

3.3.1.3 Stations and Nodes

The current stations and junctions on the IÉ network are shown graphically, in Appendix 1A and further details of passenger stations are shown in Appendix 1B and 1C. Additionally, further details of all stations including general operating information, parking, transport links, and station accessibility is available from the ‘Travel & Station Information’ section of the IÉ website <http://www.irishrail.ie/>

3.3.2 Capabilities

Route Information Books are under development for all Routes on the Iarnród Éireann Network. This is a comprehensive document detailing information about the infrastructure along the entire route. Books, where published, can be obtained from the Infrastructure Manager

3.3.2.1 Loading Gauge

The current loading and structure gauges for the IÉ network are detailed in Appendix 3.

3.3.2.2 Weight Limits

The maximum axle load permissible on the IÉ network is 18.8 tonnes.

3.3.2.3 Line Gradients

The maximum sustained rising gradient on the Iarnród Éireann network is 1 in 60 in the Up direction on the Dublin-Cork line between mile posts 164 and 162. Other significant sustained rising gradients include 1 in 80 in the Up direction on the Dublin-Sligo line between mile posts 75¼ and 70¾ and 1 in 90 in the Up direction on the Dublin-Wexford line between mile posts 40¼ and 36¾.

3.3.2.4 Line Speeds

The maximum speed is 160 km/h for passenger trains and 80 km/h for freight trains. However, on certain sections of line and/or for certain types of train lower maximum speed limits apply. These Permanent Speed Restrictions are set out in Appendix 4.

Temporary Speed Restrictions (TSRs) are advised through the Weekly Circular published internally by Iarnród Éireann. The major criteria for the imposition of TSRs include track defects, engineering works and weather conditions.

The most recent editions of the 'Weekly Circular' are available on request to all registered RU's through the following link: <https://www.irishrail.ie/en-ie/about-us/iarnrod-eireann-network-statement/weekly-circular-information>

3.3.2.5 Maximum Train Lengths

The maximum length of passenger trains is governed by the length of platforms at stations the trains serve. Platform lengths are set out in Appendix 1B and are measured from Top of Ramp to Top of Ramp where usable length may actually be less. Usable lengths may vary according to signal location or local infrastructure. Please consult the Infrastructure Manager regarding the usable length for specific locations.

Except where specifically authorised, the number of vehicles attached to fully braked freight trains must not exceed 36 Twenty-foot Equivalent Units (TEUs). For the purpose of calculating train lengths, one 18.6 m (62' 9") bogie wagon or one 22 m bogie pocket wagon is counted as 3 TEUs, all other bogie wagon types are counted as 2 TEUs and 2-axle wagons are counted as 1 TEU.

3.3.2.6 Power Supply

The Dublin suburban rail system in the area bounded by Malahide, Howth and Greystones is electrified at 1,500V DC. Current is supplied to trains by an overhead contact line, with one or both of the running rails forming the return part of the circuit.

Contact wire height can range from 4,200 mm to 5,600 mm. Maximum contact wire stagger is 400 mm.

3.3.2.7 Vehicle Overhang

The distance between the buffer front plane and the first axle of any vehicle that can lead a train (i.e. the distance b1 or the distance b2 in paragraph 3.1.1 of the ERA ERTMS Interface document ERA/ERTMS/033281 Version 5.0) shall not exceed 3 metres.

3.3.3 Traffic Control and Communication Systems

Route Information Books are under development for all Routes on the Iarnród Éireann Network. This is a comprehensive document detailing information about the infrastructure along the entire route. Books, where published, can be obtained from the Infrastructure Manager.

3.3.3.1 Signalling Systems

The signalling systems currently in use on the IÉ network are shown graphically in Appendix 5.

The Class A ETCS CCT fitted on the Iarnród Éireann network shall comply with the requirements from Irish Railway Standards IRS-305 in the latest version, as published on the CRR Website (<http://www.crr.ie/publications>).

Note: When the standard is intended to be modified, notice is expected to be given to railway undertakings to allow for implementing the changes that may be required for compliance with the updated standard.

3.3.3.2 Traffic Control Systems

The traffic control systems currently in use on the IÉ network are shown graphically in Appendix 6.

3.3.3.3 Communication Systems

The communication systems currently in use on the IÉ network are shown graphically in Appendix 7. There are two types of train radio system:

Mode A: This provides communication between driver and CTC. It operates in full duplex mode and allows for general calls to all trains or discrete calls to specific trains. It also allows for the transmission of text messages in either direction and allows calls to be connected to the PABX system. The system provides full coverage over the lines it is operational on.

Mode C: A more basic system operational on lines not covered by CTC. It is an open channel system between drivers and the local signal cabin. There is no provision for discrete communication to specific trains - all trains in the area can hear both sides of the conversation. There is also no provision for calls to be connected to the PABX system. The range of the system is limited, about 5 miles from each cabin.

3.3.3.4 ATC Systems – Not applicable

3.4 Traffic Restrictions

3.4.1 Specialised Infrastructure

Iarnród Éireann may designate particular sections of its infrastructure for use by specified types of rail service and may give priority to that specified type in the allocation of infrastructure capacity. The purpose of such a designation is to enable priority to be given to the specified type of rail service, even though there may be other types of rail service which conform to the characteristics necessary to use that infrastructure.

3.4.2 Environmental Restrictions

The operation of trains on the main rail network is subject to the requirements of Irish environmental and related law, including statutory nuisance such as noise, with which railway undertakings and Iarnród Éireann are required to comply.

3.4.3 Dangerous Goods

The carriage of dangerous goods by rail is governed by S.I. 651 of 2010 entitled European Communities (Transport of Dangerous Goods by Rail). These rules are based on the RID, CIM and COTIF regulations of the European Union.

3.4.4 Tunnel Restrictions

See Appendix 4.

3.4.5 Bridge Restrictions

See Appendix 4.

3.4.6 Control Command Signalling (CCS) restriction.

A vehicle which can lead a train that requires access to Iarnród Éireann Network must be fitted with the relevant CCO system(s) for the routes over which they will operate, as indicated in Appendix 5.

Alternative arrangements may be agreed between Iarnród Éireann IM and RUs in relation to special vehicles (OTMs, Infrastructure Inspection Vehicles, Heritage vehicles and Road Rail Vehicles).

Note: CAWS fitted vehicles may operate in ATP areas.

The CLASS A ETCS CCO fitted on a vehicle which can lead a train that requires access to Iarnród Éireann Network shall comply with the requirements from Irish Railway standards IRS-304 in the latest version, as published on the CRR website (<https://www.crr.ie/publications/guidelines>). This means that all vehicles which can lead a train operating with CLASS A CCO must at all times comply with the current version of this standard.

Note: When the standard is intended to be modified, notice is expected to be given to railway undertakings to allow for implementing the changes that may be required for compliance with the updated standard.

Note: In accordance with current TSI CCS, there may develop or may already be an obligation for vehicles which are newly authorised for operation in Iarnród Éireann Network to be fitted with the aforementioned CLASS A ETCS CCO equipment.

Appendix 5: Map of CCT Signalling systems on the Iarnród Éireann network will be updated to reflect the ETCS Level 1 CCT systems

Where a train that requires access to Iarnród Éireann infrastructure is fitted with sanding equipment to assist traction or braking, that equipment shall not apply sand at the first axle of the train. The leading and trailing bogies of any train that requires access to Iarnród Éireann infrastructure shall be fitted with a Track Circuit Assister acceptable to Iarnród Éireann IM, to ensure proper operation of the train detection system.

3.5 Availability of the Infrastructure

Iarnród Éireann reserves the right to periodically restrict access to sections of the network for the purpose of maintenance, renewal and enhancement works.

The IM submits its work programme to the Department of Transport by the end of October each year for the year ahead. As part of the planning process for the year ahead the IM prepares, in consultation with registered RUs and in accordance with Schedule 5 of S.I. No.249 of 2015 (as amended by S.I. 398 of 2020, Schedule 5), the disruptive possession plan for the year ahead. The disruptive possession plan includes the following information: -

- Proposed Date of works.
- Line
- Location
- Possession Type and Duration
- Works to be completed
- UP/DN/Single
- Start Time
- Finish Time
- Further relevant information

The details of disruptive possession plans agreed in advance between the IM and concerned applicants are set out in Annex 1, which also contains some higher level details on further major disruptive possessions to the extent that they are known. Timelines for the publication of information related to the disruptive possession plan and offered train paths for passenger trains, are agreed between the IM and concerned applicants.

It should be noted that this is a dynamic disruptive possession plan and may be subject to change throughout the year depending on changing circumstances including for example changes to the agreed funding profile, special events (e.g. matches, concerts, etc) and other unforeseen circumstances including safety. The details of these alterations are set out in the Weekly Circular which can be viewed on request through the following URL (<https://www.irishrail.ie/en-ie/about-us/iarnrod-eireann-network-statement/weekly-circular-information>). Annex 1 will be updated to the extent that changes are required to be published as per S.I. 398.

The Track Access Contracts for services between the Infrastructure Manager and Railway Undertakings set out the process for agreeing disruptive possessions and associated financial compensation which may apply.

3.6 Passenger Terminals (Stations)

There are currently a total of 145 passenger stations* on the Iarnród Éireann network. These stations and their facilities are detailed both graphically and in tabular form in Appendix 1.

** including Manulla Junction which only operates as a transfer point for services to/from Ballina and Kishogue the opening of which is pending.*

3.7 Freight Terminals

Freight terminals operated by both Iarnród Éireann and other companies are detailed both graphically and in tabular form in Appendix 2.

3.8 Service Facilities

3.8.1 Train Formation Yards

Refer to Appendix 8 and for further information on train formation yards and facilities contact.

Director IM,
Iarnród Éireann,
Engineering & New Works Building,
Inchicore,
Dublin 8.
Phone: 01 707 3849
Email: eamonn.ballance@irishrail.ie

3.8.2 Storage Sidings

Refer to Appendix 8 for details of all train siding locations and lengths.

3.8.3 Maintenance Facilities

As Infrastructure Manager, Iarnród Éireann does not offer facilities at maintenance depots.

3.8.4 Refuelling Facilities

As Infrastructure Manager, Iarnród Éireann does not offer any refuelling facilities.

3.8.5 Technical Facilities

3.8.5.1 Hot Axle Box Detectors (HABD)

The location of HABDs on the IÉ network is shown graphically in Appendix 9.

3.8.5.2 Turntables

There are a number of turntables on the Iarnród Éireann network of varying condition. Details on currently operational turntables can be obtained from the Infrastructure Manager and it is only those that are included in the Minimum Access Package.

3.9 Infrastructure Development

A number of infrastructure development projects have been completed in recent years and others are near completion or at advanced planning stages. Further details can be found by visiting the 'Projects & Investment' section of the Iarnród Éireann website at: <http://www.irishrail.ie/>

4 CAPACITY ALLOCATION

4.1 Introduction

The legal framework for capacity allocation is governed by S.I. No. 249 of 2015 as amended by S.I. No. 398 of 2020 (hereinafter referred to as 'S.I. 249 of 2015'). These regulations give effect to Directive 2012/34/EU of the European Parliament and of the Council concerning the allocation of railway infrastructure and the levying of charges. Regulations 19 and 20 of S.I. 249 of 2015 specifically address the allocation of infrastructure capacity.

4.2 Capacity Allocation Process

Capacity for operating regular train services on the Irish railway network shall be requested from the Essential Functions Body (EFB) for each timetable period within the time defined in accordance with the procedures set out by the EFB. As per the regulations it is also possible to make ad hoc train requests for path capacity for other than regular traffic. Under the regulations the EFB may also on request allocate train paths to operators of heritage railway vehicles and may waive or levy a nominal charge in respect of the allocation of infrastructure capacity to operators of heritage railway vehicles.

An application for the allocation of railway infrastructure capacity may be submitted to the EFB for each timetable period by a Railway Undertaking established, or to be established, in the State or another Member State. The applicant must provide the relevant documentation and bonds described in Section 2.2 of the Network Statement i.e., operating licence, safety certificate and suitable insurance in addition to the application fee of €750 (as per Regulation 13 of S.I. No. 249 of 2015). The EFB will respect the commercial confidentiality of any information provided by any applicant.

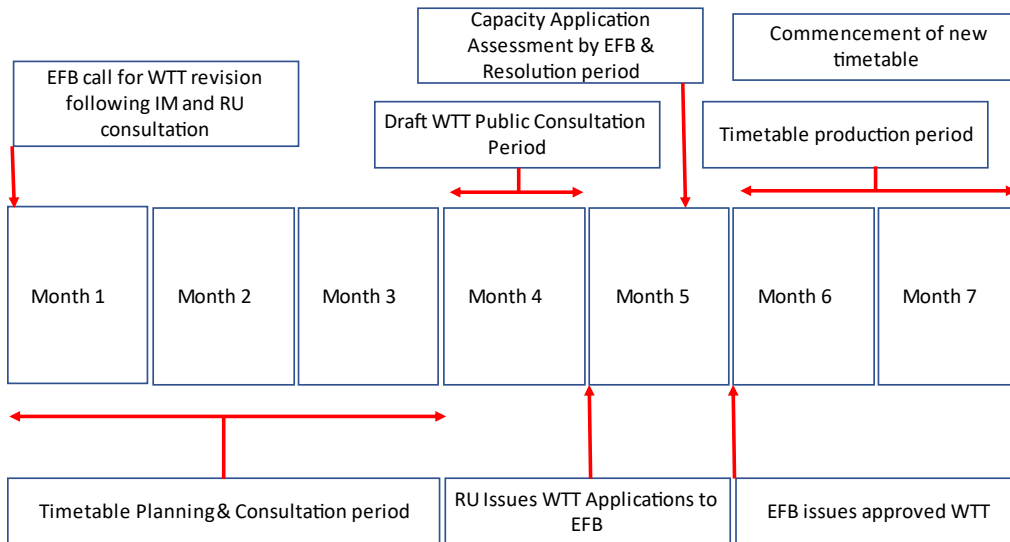
Requests for capacity allocation on the Irish railway network shall be made in writing to the EFB in accordance with the procedures set out by the EFB including the schedule for the preparation of the Working Timetable (WTT). "Working Timetable (WTT)" means the data defining all planned train and rolling-stock movements which will take place on the relevant infrastructure during the period for which it is in force.

The EFB is charged with the responsibility of compiling the WTT following verification and validation of submissions from Railway Undertakings (RUs).

The EFB, following consultation with the IM and the RUs, will make known the date of the next WTT update at least seven months in advance. The schedule for the updating of the WTT during the capacity allocation period is as illustrated below. This relates to a multi-RU environment whereby RUs are afforded at least 4 months notification period to apply for train paths for inclusion in the WTT which will generally be updated in December each year to coincide with the uploading of the Network Statement to the Iarnród Éireann website. It should be noted however that given the current single RU (IÉRU) environment in the Iarnród Éireann network, apart from the Dublin – Belfast corridor which is served by a joint venture between IÉRU and NIR / Translink, there is scope for shorter consultation periods to facilitate the issuing of WTTs that may be dictated by PSO considerations. In addition, there is scope for smaller registered RUs to co-operate with IÉRU during the application process to secure dedicated train paths in the WTT. Any

queries relating to the WTT. Any queries relating to the WTT Capacity Allocation process should be directed to the EFB (contact details below).

Schedule for the preparation of the Working TimeTable.



Only applications that meet the requirements set out above and those set out in Section 2.2.1 will be accepted. These access conditions apply equally to RUs seeking ad-hoc capacity requests.

After a new working timetable (WTT) is published RUs may wish to obtain additional train paths or amend any of their train paths already included. These changes are called train operator ad-hoc variations requests. Applicants may request such ad-hoc variations outside the capacity of the prescribed WTT period and may include the following: -

- An additional train slot on one or more occasions,
- Amending the details of one or more slots, and
- Removing one or more train slots.

In addition to producing the WTT the EFB will also perform the task of allocating short term (greater than 48 hours’ notice) ad-hoc path requests.

Given the nature of very short term (48 hours’ notice or less) ad-hoc path requests that may arise, these will be submitted to the Infrastructure Manager to be dealt with directly. Subsequently the data will be provided to the EFB for record purposes and administration of track access charges.

All train operator ad-hoc variations requests must be accompanied by the Train Operator Variation Application Request Form set out in Schedule 1 and must be submitted as soon as the requirement has been identified and a minimum of 48 hours in advance. Where a minimum of 48 hours’ notice is not feasible the application must be submitted directly to the IM to deal with directly.

Should an RU wish to seek a permanent variation to the WTT within the period of the timetable the application must be submitted to the EFB a minimum of 20 working days in advance of the requested WTT amendment.

In addition, the EFB may reserve infrastructure capacity to enable the IM to respond rapidly to foreseeable ad-hoc variation requests for individual train paths.

The EFB shall consult with interested parties on the draft WTT and allow a one-month period for the IM to assess the RUs capacity applications and for the resolution of capacity issues. The draft WTT shall take account of the capacity requested provided that the requested train paths enable railway traffic to be operated in accordance with technical and safety regulations.

Iarnród Éireann-IM may designate specific infrastructure for use by specific types of transport. Such designation shall not prevent the use of such infrastructure by other types of traffic when capacity is available and when rolling stock conforms to the technical characteristics necessary.

4.3 Co-ordination Process

The EFB shall take account of the views of interested parties and shall ensure that capacity is allocated based on (a) the draft timetable (b) on a fair and non-discriminatory manner and (c) subject to S. I. 249 of 2015.

Infrastructure may only be allocated to a suitably qualified and licensed railway undertaking. The EFB shall as far as possible meet all requests for capacity including requests for train paths crossing more than one network. Subject to Regulation 20 subsection 4 of S.I. 249 of 2015, the EFB may not refuse an application for a particular train path if there is no other application for all or part of the path.

If more than one application is received for all or part of a particular train path the EFB will endeavour, by suggesting suitable amendments, to reach agreement among the applicants which would enable some or all of the applications to be granted. If it is not possible to reach agreement with all the applicants, even though the applicants have not unreasonably refused to agree to a modification to their applications, the EFB shall allocate the path to the applicants on a non-discriminatory basis based on the following priority allocation: -

- a. Train movements associated with public service contract agreement,
- b. Freight services,
- c. Engineering trains
- d. Other passenger services

The EFB may refuse any application if, in its opinion, the applicant has unreasonably refused to agree to modification to its application.

The EFB's decision concerning an application (including in the case of a refusal, the reason or reasons for a refusal) will be communicated in writing to the applicant. If the application is refused on the grounds of insufficient capacity the written notice shall also include the following information:-

- That the applicant is entitled to request the EFB to reconsider the application at the next timetable adjustment

-
- The date when these adjustments would be considered, and
 - The time allowed and the procedure for the request.

4.4 Dispute Resolution Process

As per the regulations (Regulation 30 of S.I. 249 of 2015) a Railway Undertaking that is aggrieved by a decision of the EFB on the allocation of infrastructure capacity or infrastructure charges may appeal against that decision to the CRR by delivering a written notice of appeal no later than 21 days after the applicant is notified of the decision being appealed.

4.5 Congested Infrastructure: Definition, Priority Criteria and Process

If it is impossible to adequately satisfy requests for infrastructure capacity after the co-ordination process the EFB will declare that part of the network a “congested area”. This is an area of the rail network for which the demand for capacity cannot be fully satisfied during certain periods, even after co-ordination of all the requests for capacity. The EFB may also designate an element of infrastructure as congested if it is evident that it will become congested during the timetable period. Even in congested areas the EFB can reserve capacity in the working timetable to respond to foreseeable ad hoc requests.

4.6 Operational Testing Period

Should operational testing be required to assess the effect of infrastructure maintenance, renewals and/or enhancement activities on future WTTs then this testing period will be made available by the IM prior to the production of the subsequent year’s draft working timetable.

Any changes to the infrastructure to support the operational testing which may impact the current working timetable will be undertaken under the change control procedure of the existing Track Access Agreements.

4.7 Allocation of Capacity for Maintenance, Renewal and Enhancements

To guarantee levels of quality, safety, reliability of the infrastructure, the IM needs to reserve part of its available capacity for periodic maintenance and enhancements work by time period, section and line. Applicants may make conditional requests for paths at these times.

Track Access Contract between the IM and RUs sets out the process for agreeing disruptive possessions and associated financial compensation which may apply.

4.8 Non Usage Rules / Cancellation Rules

The EFB reserves the right to cancel timetable paths when their use falls below the 25 percent threshold quota in a given month unless this was caused by non-economic reasons outside the alleged and proven control of the Railway Undertaking. Railway Undertakings will be bound by the charges set out in Section 6.

4.9 Exceptional Transport and Dangerous Goods

Path requests for this type of transport must be made with at least 30 days notice because of the need to assess and resolve any incompatibilities with Iarnród Éireann.

4.10 Special Measures to be taken in the event of Disturbance.

In the case of disturbances to rail traffic due to accidents or technical faults the IM will take all necessary measures to re-establish all normal operating conditions. In the case of emergencies or technical failures, that render the infrastructure temporarily unusable, allocated train paths can be cancelled without notice during the repair period. The Performance Scheme set out in Section 6.4 will be utilised to attribute the cause of the disruption to the relevant party.

4.11 Contact details.

Essential Functions Body.

CIE Group Solicitor

Bridgewater House

Islandbridge

Dublin 8

Ph: +353 1 703 1500

Email: efb@cie.ie

Director IM,

Iarnród Éireann,

Engineering & New Works Building,

Inchicore,

Dublin 8.

Phone: 01 707 3849

Email: eamonn.ballance@irishrail.ie

Commission for Railway Regulation.

Temple House

57 Temple Road

Blackrock

Co. Dublin A94 Y5W5

Tel: 01-2068110

E-Mail: info@crr.ie

5 SERVICES

5.1 Introduction

Railway Undertakings will be entitled to the minimum access package and track access to service facilities and supply of services as described in Schedule 2 S.I. 249 of 2015.

5.2 Minimum Access Package

The minimum track access package will comprise:

- handling of requests for infrastructure capacity
- the right to utilise capacity which is granted
- use of railway infrastructure including track points and junctions
- use of passenger stations including travel information display and suitable location for ticket sales
- train control including signalling, regulation, dispatching and the communication and provision of information on train movement
- Use of electrical supply equipment for traction current where applicable (Malahide / Howth – Greystones).
- Access to freight terminals and maritime and inland port facilities which are linked to rail facilities
- Access to marshalling yards and train formation facilities, including shunting facilities
- Access to storage facilities
- Assistance in running abnormal trains
- Access to telecommunications networks limited to what is required in connection with train operations
- Any other ancillary services for which capacity has been granted including the provision of supplementary information
- all other information required to implement or operate the service for which capacity has been granted.
- Control of transport of dangerous goods (Path requests for this type of transport must be made with at least 30 days notice because of the need to assess and resolve any incompatibilities with Iarnród Éireann.)

5.3 Supply of other additional / ancillary services

The IM does not offer the following additional / ancillary services as part of the Minimum Access package: -

- Refuelling facilities and supply of fuel.
- Train heavy maintenance services supplied in maintenance facilities dedicated to high-speed trains or to other types of rolling stock requiring specific facilities.
- Technical inspection of rolling stock.
- Services for Trains (cleaning and washing facilities, preheating of passenger trains, water supply, toilet waste handling etc.)

-
- Shunting

Iarnród Éireann is not obliged to supply these additional / ancillary services and its capability to supply them is limited.

5.4 Supplementary Information.

Any prospective new operator who requires information in addition to that provided within the Minimum Access Package is requested to contact:

Director IM,
Iarnród Éireann,
Engineering & New Works Building,
Inchicore,
Dublin 8.
Phone: 01 707 3849
Email: eamonn.ballance@irishrail.ie

6 CHARGES

6.1 Charging Principles

The charges for the use of the infrastructure are governed by Regulation 25 of S. I. 249 of 2015. The charging system is based on the maintenance and renewals expenditure on the railway infrastructure. Under regulation 13.3 of S.I. 249 of 2015 a reservation charge is required as part of the capacity application process, payable by a Railway Undertaking as a bond of 5%, or other equivalent arrangement, of the total cost of providing the service for which the allocation is required along with an application fee of €750.

6.1.1 Minimum Access Package

The Minimum Access Package tariff covers the right of access, the right to make train path reservations and the right to run trains on the railway infrastructure, including all services listed in Section 5.2.

6.1.2 Traction Current

A separate charge will be imposed for the usage of electricity supply which will be shown on invoices separately from charges for using the electrical supply equipment.

6.1.3 Additional / Ancillary services

Iarnród Éireann is not obliged to supply these additional / ancillary services and its capability to supply them is limited.

6.2 Charging System

The tariff applied to services operating on the network is based on the following principles: -

Variable Usage Track Infrastructure Charge:

Covers the infrastructure manager's operating, maintenance and renewal costs that vary with traffic. In economic terms it represents the short run incremental costs. The variable usage charge is paid by all railway undertakings that use the Irish rail network. There will be a single common charge rate throughout the entire Irish Rail network.

Variable Usage Traction Power Charge:

Covers the infrastructure manager's operating, maintenance and renewal OHLE costs that vary with traffic. In economic terms it represents the short run incremental costs. The variable usage charge is paid by all railway undertakings that use the OHLE system.

Fixed track access charge:

The fixed access charge recovers the infrastructure manager's residual funding requirement as a mark-up applied after estimating the income from all the variable track access charges, station access charges, infrastructure manager multi annual contract grants and other incomes. It is only paid by franchised passenger railway undertakings on an operator-specific ability to pay basis.

Freight Only Line charge:

This includes a variable usage track infrastructure charge along with a fixed track access charge on an operator-specific ability to pay basis.

6.3 Tariffs

6.3.1 Minimum Access Package

The tariffs for essential services cover the right of access, the right to make train path reservations and the right to run trains on the railway infrastructure, including all services listed in Section 5.2.

The variable usage track infrastructure charge applied to passenger services operating on the network is on a rate of €0.0077 per gross tonne kilometre. The amount payable for each rail journey is calculated by multiplying the gross tonne kilometres operated by €0.0077.

A reduced rail freight charge will be applied to rail freight traffic to encourage new business. The charge will be €0.001925 per gross tonne km.

The variable usage traction power charge for use of traction power on the DART network is €0.001 per gross tonne kilometre.

6.3.2

Traction Current

A separate charge will be imposed for the usage of electricity supply which will be shown on invoices separately from charges for using the electrical supply equipment included in the Minimum Access Package.

6.4 Performance Scheme

The performance scheme seeks to “*encourage railway undertakings and Iarnród Éireann infrastructure manager to minimise disruption and improve the performance of the railway network.*” (Article 25(10), S.I. No. 249 of 2015).

The performance regime will be based on a monitoring and recording system whereby delays and performance affecting failures will be monitored and causation allocated to the relevant parties. The system will be transparent, and an appeal process will be available to railway undertakings.

Incidents of delay will be assessed on a case-by-case basis for the duration of the Access Agreement. The thresholds for recording of delays are as follows:

- Passenger services which arrive at destination 5 or more minutes late.
- Freight services which arrive at destination 30 or more minutes late.

The operation of the performance regime will be based upon the following principles:

- All recorded minutes, excluding force majeure causes, will be attributed to either the Infrastructure Manager or Railway Undertakings on a daily basis.
- All such recorded minutes attributed to the infrastructure manager or railway undertakings will be assigned a financial value by service group, based upon the Marginal Revenue Effect (MRE) formulae.
- The net financial impact of the performance regime between the infrastructure manager and railway undertakings will be invoiced on a period basis, subject to adjustment for any delay minute allowances agreed between both parties in a track access agreement.

6.5 Changes to charges

The variable usage track infrastructure charge and the variable usage traction power charge set out in section 6.3.1 shall cover the four-year period 2020 – 2024 inclusive.

6.6 Billing Arrangements

Iarnród Éireann's Infrastructure Manager financial system operates on a 13 x 4-week period basis. Railway Undertakings will be invoiced by the EFB on a period basis in arrears. Invoices shall be paid within 28 days of the invoice date.

The invoice shall contain a statement of amount payable and shall contain such detail as shall be necessary or expedient so as to enable the person to whom it is given to understand, check it and arrange payment.

Infrastructure charges payable shall not be refundable apart from when the infrastructure is unavailable due to circumstances within the Infrastructure Manager's control as set out in track access agreements

All payments shall be made entirely in Euro and shall be made by electronic funds transfer ("**EFT**").

Schedule 1: Variation Application Request Form

1) Railway Undertaking Name: 2) Date of Application Request:

3) Train Type (Passenger/Freight): 4) Maximum Permitted Speed: MPH

5) Time / Days / Period of Operation Requested:

6) Train Length Total in Meters - (Including Loco): Meters

7) Number of Vehicles in Consist (Including Loco) and Vehicle Class / Type:

8) Train Gross Tonnage (Including Loco):

Loco	1	2	3	4	5	6	7	8	9	10
9) Individual Vehicle Weights (T):										
Individual Vehicle Length (m):										

10) Rolling Stock Brake Type:

11) Method of Train Operation - (DOO / Guard):

12) Method of Communication from Driving Unit with Signaller:

13) Are there any specific instructions required for the movement **OR** on-route activity? (Y/N). If 'YES', please provide details in section 18:

14) Are vehicles listed on the CRR National Vehicle Register? (Y/N):

15) Has the Rolling Stock been cleared to operate over the route requested? (Y/N). If 'NO' route clearance will be required:

16) Please confirm that you have an approved RU License issued by the Licensing Authority in accordance with SI 249 of 2015: YES / NO License valid until date:

17) **Proposed Path: (or attach Operating Notice proposal):**

Origin:	Destination:	Distance in Kilometres:
Stop (Passenger) or Handling Point (Freight)	Time Depart	Distance in Kilometres
Time Arrive	Observations	

18) **Other Information / Details Relating to Operation:**

19) **Freight Specific Information, including description of goods:**

20) **Do you plan to Transport Dangerous Goods? (Y/N):** If 'YES' please provide full details below:

21) Name of RU requesting Officer:

RU Position Held:

For Capacity Allocation Officer Use:

22) Name of CA Officer:

Position Held:

Date:

Request Decision:

Reference Number:

Form IEIM VARF v7

7 Annex 1.

Details of Disruptive Possessions for 2024 - 2026

The IM submits its work programme to the Department of Transport by the end of October each year for the year ahead. As part of the planning process for the year ahead the IM prepares, in consultation with registered RUs and in accordance with Schedule 5 of S.I. No.249 of 2015 (as amended by S.I. 398 of 2020, Schedule 5), the disruptive possession plan for the year ahead. The process generally commences in July and is completed in October in line with the submission of the work programme to Department of Transport. The 2024 disruptive possession programme is summarised in Section 1 below. This is a dynamic planning process and may be subject to change during the course of the year arising from a range of circumstances. Changes that may be required to the disruptive possession programme are set out in the Weekly Circular.

Due to the radial configuration of the Irish Rail network alternative service routing is not available when sections of the network are closed for disruptive possessions. Where replacement bus services are provided these are advertised by the RU and through the Irish Rail website: <https://www.irishrail.ie/en-ie/news/irishrail-engineering-works#line-improvement-works>

In parallel with this process there is a look ahead prepared for two years in advanced in respect of the bigger disruptive possessions mainly around bank holiday weekends. Details of this for 2025 and 2026 are set out in Section 2. Only limited information is available this far in advance due to circumstances including funding, events, climate, etc that may impact on the scheduling of the work programme.

Section 1: Detailed Disruptive Possession for 2024

Proposed Date for Work	Line	Location	Possession Type and Duration	Work to be Completed	UP/DN/Single	Start	Finish
13th to 14th January	Cork East	Kent Station	T3 16 hours	Install T/O 955	Cork East Services Suspended Sat night	18:00	10:00
20th to 21st January	Cork East	Kent Station	T3 16 hours	Install X/O 970	Cork East Services Suspended Sat night	18:00	10:00
27th to 28th January	Cork East	Kent Station	T3 16 hours	Per way Works	Cork East Services Suspended Sat night	18:00	10:00

1st to 6th February	Dublin/Cork/Cork East	Kent Station	T3 76 hours	Kent Station Commissioning weekend and CACR WP2	Cork East services suspended from Thursday night, with all services (Mainline & East) suspended from Friday night to Tuesday morning	00:00	05:00
2nd to 6th February	Southside DART	Dun Laoghaire to Bray	T3 76 hours	TPS and Woodbrook Station	Both roads Closed	23:59	05:00
16th to 19th February	Southside DART	Grand Canal Dock to Bray	T3 55 hours	OHLE Renewals	Both roads Closed	23:59	05:00
2nd to 3rd March	Dublin/Galway	Portarlinton to Athlone	T3 14 hours	Gantry Relaying	Single	18:00	08:00
1st to 3rd March	Nenagh Branch	Roscrea to Birdhill	T3 45 hours	Culvert Repairs UBN64	Single	21:00	17:00
1st to 3rd March	Dublin/Cork	Limerick Jct to Thurles	T3 37 hours	Ballast Cleaning	Single – Down road	22:50	08:30
9th to 10th March	Dublin/Galway	Portarlinton to Athlone	T3 14 hours	Gantry Relaying	Single	18:00	08:00

8th to 11th March	Nenagh Branch	Roscrea to Birdhill	T3 45 hours	Culvert Repairs UBN69	Single	21:00	17:00
8th to 11th March	Cork East	Kent to Middleton to Cobh	T3 52 hours	CACR – WP2	All roads	23:59	05:00
22nd to 24th March	Nenagh Branch	Roscrea to Birdhill	T3 45 hours	Culvert Repairs UBN73	Single	21:00	17:00
26th to 28th March (Tue – Thur)	Limerick/Galway	Limerick to Ennis	T3 – 3 x 6 hours	Ballast Train	Single	09:00	15:00
29th to 31st March	Dublin/Cork	Limerick Jct to Thurles	T3 37 hours	Ballast Cleaning	Single – Down road	22:50	08:30
29th March to 2nd April	South Side DART	Grand Canal Dock to Bray	T3 76 hours	Panel relaying, OHLE renewals, TPS.	Both roads	23:59	05:00
6th to 7th April	Dublin/Galway	Galway to Athenry	T3 14 hours	Ballast Cleaning	Single	18:00	08:00
5th to 7th April	Nenagh Branch	Roscrea to Birdhill	T3 45 hours	Culvert Repairs UBN73	Single	21:00	17:00
12th to 15th April	Dublin to Cork	Mallow to Kent	T3 52 hours	CACR – WP2	Both roads	23:59	05:00
13th to 15th April	Southside DART	Dalkey to Greystones	24 hours	NTCC – DMC replacement	Both roads	23:59	05:00
19th to 21st April	Dublin/Cork	Limerick Jct to Charleville	T3 37 hours	Ballast Cleaning	Single – Down road	22:50	08:30

27th and 28th April	Dublin/Galway	Portarlinton to Tullamore	T3 14 hours	Ballast Cleaning	Single	18:00	08:00
3rd to 7th May	South Side DART	Grand Canal Dock to Bray	T3 76 hours	OHLE renewals, TPS.	Both roads	23:59	05:00
10th to 12th May	Dublin/Cork	Limerick Jct to Charleville	T3 37 hours	Ballast Cleaning	Single – Down road	22:50	08:30
18th to 19th May	Dublin/Westport/ Ballina	Clonnidonnin to Roscommon	T3 14 hours	P&C Renewal AE607 Points	Single	18:00	08:00
17th to 18th May	Southside DART	Grand Canal Dock to Bray	T3 27 hours	DK111 renewal, TPS	Both roads	23:59	05:00
24th to 26th May	Dublin/Cork	Limerick Jct to Mallow	T3 33 hours	UBC 273C and UBC 306C renewals; BC 139/140 mp Up	Both roads	23:30	08:30
31st May to 3rd June	Dublin/Rosslare	Gorey to Enniscorthy	T3 54 hours	UBR306 Renewal	Single	23:59	05:00
31st May to 4th June	Dublin/Belfast	Drogheda Station	T3 72 hours	BEMU & AVIS Drogheda Station	Full shutdown of station req.	23:59	05:00
7th to 10th June	Dublin/Westport/ Ballina	Athlone to Ballinasloe	T3 54 hours	UBG124 Renewal	Single	23:59	05:00
8th to 9th June	Mallow/Tralee	Banteer to Rathmore	T3 16 hours	UBT40 Repairs	Single	16:00	08:00
8th to 10th June	Southside DART	Dun Laoghaire to Greystones	T3 27 hours	DK111 renewal, TPS	Both roads	23:59	05:00

15th to 16th June	Dublin/Athlone/ Galway	Ballinasloe to Athenry	T3 14 hours	Panel Relaying	Single	18:00	08:00
15th to 16th June	Mallow/Tralee	Banteer to Rathmore	T3 16 hours	UBT41 Repairs	Single	16:00	08:00
14th to 17th June	Dublin/Cork	Mallow to Kent	T3 52 hours	CACR – WP2	Both roads	23:59	05:00
15th to 17th June	Dublin/Waterford/Li merick Jct	Lavistown to Waterford to Carrick on Suir.	T3 34 hours	Renewal of T/O	Lim/Dub lines	22:00	08:00
22nd to 23rd June	Dublin/Athlone/ Galway	Ballinasloe to Athenry	T3 14 hours	Panel Relaying	Single	18:00	08:00
22nd to 23rd June	Dublin/Cork	Kildare to Portarlinton	T3 16 hours	Panel relaying	Both roads	16:00	18:00
22nd to 23rd June	Northside DART	Howth Jct to Howth	T3 12 hours	Sutton Level Crossing renewal	Both roads	22:00	10:00
28th June to 1st July	Cork East	Glounthaune to Middleton	T3 52 hours	CACR – WP2	Single	23:59	05:00
28th to 30th June	Dublin/Cork	Limerick Jct to Charleville	T3 37 hours	Ballast Cleaning	Single – Down road	22:50	08:30
1st July to 31st December	Kent/Glounthaune/ Middelton/Cobh	Cork East	Curtailed Cork East services Mon – Wed nights from Weeks 26 to 52.	CACR	Both roads	N/A	N/A

13th to 14th July	Dublin/Cork	Kildare to Portarlington	T3 16 hours	Panel relaying	Both roads	16:00	18:00
26th to 29th July	Cork East	Glounthaune to Middleton	T3 52 hours	CACR – WP2	Single	23:59	05:00
3rd to 4th August	Dublin/Cork	Kildare to Portarlington	T3 16 hours	Panel relaying	Both roads	16:00	18:00
2nd to 6th August	Dublin/Belfast	Malahide to Drogheda	T3 76 hours	Beam & Panel relaying.	Both roads	23:59	05:00
10th to 11th August	Southside DART	Dun Laoghaire to Bray	T3 8 hours	Slab Track renewals	Both roads	23:59	08:00
17th to 18th August	Dublin/Westport /Ballina	Roscommon to Ballyhaunis	T3 14 hours	OBM711 Track excavation	Single	18:00	08:00
17th to 18th August	Dublin/Westport /Ballina	Roscommon to Ballyhaunis	T3 14 hours	Castlerea points 461A renewal	Single	18:00	08:00
17th to 18th August	Dublin/Westport /Ballina	Roscommon to Ballyhaunis	T3 14 hours	UBM722B renewal	Single	18:00	08:00
16th to 19th August	Dublin/Sligo	Dromod to Sligo	T3 54 hours	Boyle P&C	Single	23:59	05:00
16th to 19th August	Dublin/Sligo	Mullingar to Dromod	T3 45 hours	OBS428 & UBS484 Works	Single	22:00	05:00
24th to 25th August	Dublin/Ballina	Manulla to Ballina	T3 14 hours	UBX887&UBX881 Renewals	Single	18:00	08:00

23rd to 26th August	Cork East	Glounthaune to Middleton	T3 52 hours	CACR – WP2	Single	23:59	05:00
24th to 25th August	Southside DART	Dun Laoghaire to Bray	T3 8 hours	Slab Track renewals	Both roads	23:59	08:00
26th to 29th August	Dublin/Cork	Cork Tunnel	T3 7 hours	Water proofing	Both roads	22:30	05:30
	Dublin/Cork	Limerick Jct to Charleville	T3 37 hours	Ballast Cleaning	Single – Down road	22:50	08:30
2nd to 5th September	Dublin/Cork	Cork Tunnel	T3 7 hours	Water proofing	Both roads	22:30	05:30
6th to 9th September	Cork East	Kent to Cobh	T3 52 hours	CACR – WP2	Both roads	23:59	05:00
7th to 8th September	Dublin/Cork	Newbridge to Kildare	T3 16 hours	Panel relaying	Both roads	16:00	18:00
7th to 8th September	Southside DART	Dun Laoghaire to Bray	T3 8 hours	Slab Track renewals	Both roads	23:59	08:00

9th to 13th September	Dublin/Cork	Mallow to Cork	T3 7 hours	Water proofing/Relaying	Both roads	22:30	05:30
14th to 16th September	Dublin/Cork	Portlaoise to Thurles	T3 36 hours	Renewal UBC 165	Both roads	22:30	09:00
13th to 15th September	Dublin/Cork	Limerick Jct to Charleville	T3 37 hours	Ballast Cleaning	Single – Down road	22:50	08:30
13th to 16th September	Southside DART	Dun Laoghaire to Bray	T3 55 hours	Shedding Plates, OHLE renewals, Woodbrook station works.	Both roads	23:59	05:00
21st to 22nd September	Dublin/Galway/Westport	Portarlinton to Tullamore	T3 14 hours	Ballast Cleaning	Single	18:00	08:00
21st to 22nd September	Limerick/Galway	Limerick to Ennis	T3 14 hours	UBE20 Renewals	Single	18:00	08:00
16th to 19th September	Dublin/Cork	Mallow to Cork	T3 7 hours	Water proofing/Relaying	Both roads	22:30	05:30
23rd to 26th September	Dublin/Cork	Cork Tunnel	T3 7 hours	Water proofing	Both roads	22:30	05:30
27th to 30th September	Southside DART	Grand Canal Dock to Bray	T3 55 hours	Shedding Plates, OHLE renewals, Woodbrook station works.	Both roads	23:59	05:00

Weeks 39 to 46, Mon to Fri	Dublin/Cork/ Galway	Inchicore to Hazelhatch	T3 6 hours	Fleet testing	Either Up or Dn roads. TBC	23:59	05:00
5th to 6th October	Dublin/Sligo	Dromod to Sligo	T3 14 hours	Ballast Cleaning	Single	18:00	08:00
30th September to 3rd October	Dublin/Cork	Cork Tunnel	T3 7 hours	Water proofing	Both roads	22:30	05:30
5th to 6th October	Southside DART	Dun Laoghaire to Bray	T3 8 hours	Slab Track renewals	Both roads	23:59	08:00
12th to 13th October	Dublin/Galway	Athlone to Ballinasloe	T3 14 hours	Ballast Cleaning	Single	18:00	08:00
7th to 10th October	Dublin/Cork	Cork Tunnel	T3 7 hours	Water proofing	Both roads	22:30	05:30
14th to 17th October	Dublin/Cork	Cork Tunnel	T3 7 hours	Water proofing	Both roads	22:30	05:30
18th to 20th October	Dublin/Cork	Limerick Jct to Charleville	T3 37 hours	Ballast Cleaning	Single – Down road	22:50	08:30
26th to 28th October	Heuston station.	Heuston to Inchicore	T3 44 hours	Switch Diamond renewal	Heuston Platforms 3, 4 & 5 closed for the full weekend. Platforms 2, 6, 7 & 8 open for traffic.	13:00	05:00

25th to 30th October	Dublin/Belfast	Clontarf road to Drogheda	T3 76 hours	BB232 Crossover renewal, Ballast Cleaning, OHLE renewals, Drogheda BEMU Commissioning,	Both roads	23:59	05:00
25th to 30th October	Dublin/M3 Parkway	Clonsilla to M3 Parkway	T3 76 hours	Track Lowering	Both roads	23:59	05:00
2nd to 3rd November	Limerick/Limerick Jct	Limerick Jct to Dromkeen	T3 14 hours	Ballast Cleaning	Single	18:00	08:00
2nd to 3rd November	Dublin/Cork	Thurles to Lisduff	T3 16 hours	Panel relaying	Both roads	16:00	18:00
9th to 10th November	Limerick/Limerick Jct	Limerick Jct to Killonan - Dromkeen	T3 14 hours	Ballast Cleaning	Single	18:00	08:00
8th to 10th November	Dublin/Cork	Limerick Jct to Charleville	T3 37 hours	Ballast Cleaning	Single – Down road	22:50	08:30
16th to 17th November	Dublin/Westport	Manulla to Westport	T3 14 hours	Ballast Cleaning	Single	18:00	08:00
16th to 17th November	Southside DART	Dun Laoghaire to Bray	T3 8 hours	Slab Track renewals	Both roads	23:59	08:00
22nd to 25th November	Galway Station	Galway Station	T3 52 hours	Install new P&C 282 A&B	Single	23:59	05:00
23rd to 24th November	Dublin/Cork	Thurles to Lisduff	T3 16 hours	Panel relaying	Both roads	16:00	18:00

23rd to 25th November	Dublin/Cork	Portlaoise to Ballybrophy	T3 37 hours	P&C Renewals LD861 Crossover and LD862 Turnout	Both roads	23:59	05:00
29th November to 1st December	Dublin/Cork	Limerick Jct to Charleville	T3 37 hours	Ballast Cleaning	Single – Down road	22:50	08:30
29th November to 2nd December	Dublin/Rosslare	Rosslare to Bray	T3 52 hours	CS1 Commissioning	Both roads	23:59	05:00
Christmas Period	Southside DART	Dun Laoghaire to Bray	T3 TBC	Panel Relaying	Both roads	23:59	05:00

Section 2: Anticipated Disruptive Possessions for 2025 and 2026

Proposed Date for Work	Line	Location	Possession Type and Duration	Work to be Completed	UP/DN/Single	Start	Finish
Early 2025	Dublin/Belfast	Drogheda Station	T3	Signaling Commissioning	Both Roads	N.A.	N.A.
Jan 2025	Full suburban line	N/A	T3	CS3 Commissioning	Both Roads	N.A.	N.A.
Feb 2025	Full Main line	N/A	T3	CS4 Commissioning	Both Roads	N.A.	N.A.
March 2025	Heuston Area	N/A	T3	CS5 Commissioning	Both Roads	N.A.	N.A.
Easter Bank Holiday: Saturday to Monday	DART Line	N.A.	T3	OHLE & CCE Renewal	Both Roads	N.A.	N.A.
Easter Bank Holiday: Saturday to Monday	Connolly - Maynooth	N.A.	T3	DART+ track works	Both roads	N.A.	N.A.
May Bank Holiday: Saturday to Monday	Dublin - Cork	N.A.	T3	Panel Relay	Both Roads Closed	N.A.	N.A.
May Bank Holiday: Saturday to Monday	DART Line	N.A.	T3	OHLE & CCE Renewal	Both Roads	N.A.	N.A.
October Bank Holiday: Saturday to Monday.	DART Line	N.A.	T3	OHLE & CCE Renewal	Both Roads	N.A.	N.A.
October Bank Holiday: Saturday to Monday.	Connolly - Maynooth	N.A.	T3	DART+ track works	Both roads	N.A.	N.A.
October Bank Holiday: Saturday to Monday.	Dublin - Cork	N.A.	T3	Panel Relay	Both Roads Closed	N.A.	N.A.

September weekend (dates not decided)	DART Line	N.A.	T3	OHLE & CCE Renewal	Both Roads	N.A.	N.A.
September weekend (dates not decided)	DART Line	N.A.	T3	OHLE & CCE Renewal	Both Roads	N.A.	N.A.
Weekend yet to be decided	DART+ WEST	N.A.	T3	Track lowering	Both Roads	N.A.	N.A.
Weekend yet to be decided	DART+ WEST	N.A.	T3	Track lowering	Both Roads	N.A.	N.A.
Weekend yet to be decided	DART+ WEST	N.A.	T3	Track lowering	Both Roads	N.A.	N.A.
Weekend yet to be decided	DART+ WEST	N.A.	T3	Track lowering	Both Roads	N.A.	N.A.
Weekend yet to be decided	Galway Station	Galway Station	T3	Commissioning Weekend	Both Roads	N.A.	N.A.
Weekend yet to be decided	Connolly - Maynooth	N.A.	T3	DART+ resignalling	Both Roads	N.A.	N.A.
Weekend yet to be decided	Connolly - Maynooth	N.A.	T3	DART+ resignalling	Both roads	N.A.	N.A.
Weekend yet to be decided	Connolly - Maynooth	N.A.	T3	DART+ resignalling	Both roads	N.A.	N.A.

'N.A.' means not available at this time.

Appendices.

APPENDIX 1 TRACK CONFIGURATION 49

APPENDIX 1A DUBLIN & CORK NETWORK MAPS 50

APPENDIX 1B PASSENGER STATIONS PLATFORM LENGTHS / CAPACITY 51

APPENDIX 1C PASSENGER STATIONS - FACILITIES 62

APPENDIX 2 TERMINALS 72

APPENDIX 2A FREIGHT DEPOTS 74

APPENDIX 3 STRUCTURE AND LOADING GAUGE 75

APPENDIX 4 SPEED LIMITS 77

APPENDIX 5 SIGNALLING SYSTEMS 96

APPENDIX 6 SIGNALLING CONTROL AREAS 98

APPENDIX 7 TRAIN RADIO SYSTEMS 100

APPENDIX 8 SIDINGS 101

APPENDIX 9 HOT AXLE BOX DETECTORS 117

APPENDIX 10 PATH ALLOCATION REQUEST FORM 120

APPENDIX 11 MODEL ACCESS CONTRACT 101

Appendix 1

Track Configuration Map 1 of 2
(See Appendix 1A for Dublin / Cork Areas)



Version 1.0 August 2020

LEGEND

- █ Multiple Track
- ▬ Double Track
- ▬ Double Track (Electrified)
- ▬ Single Track (Electrified)
- ▬ Single Track
- ▬ Freight Only
- Stations / Depots



Appendix 1a

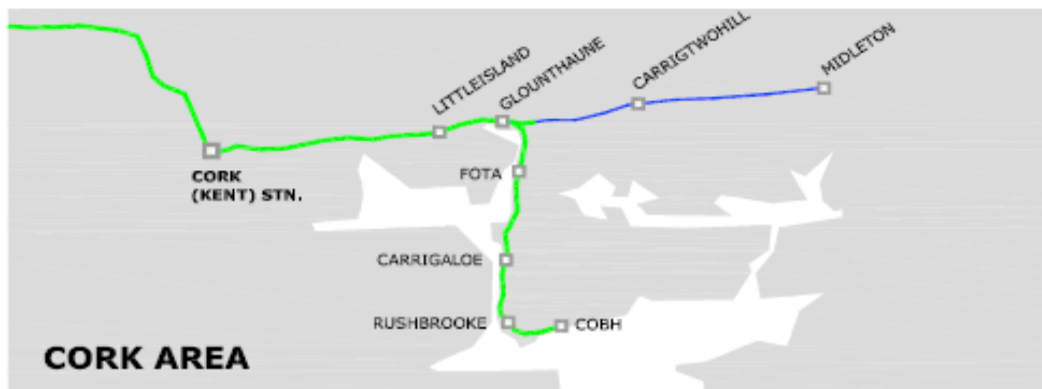
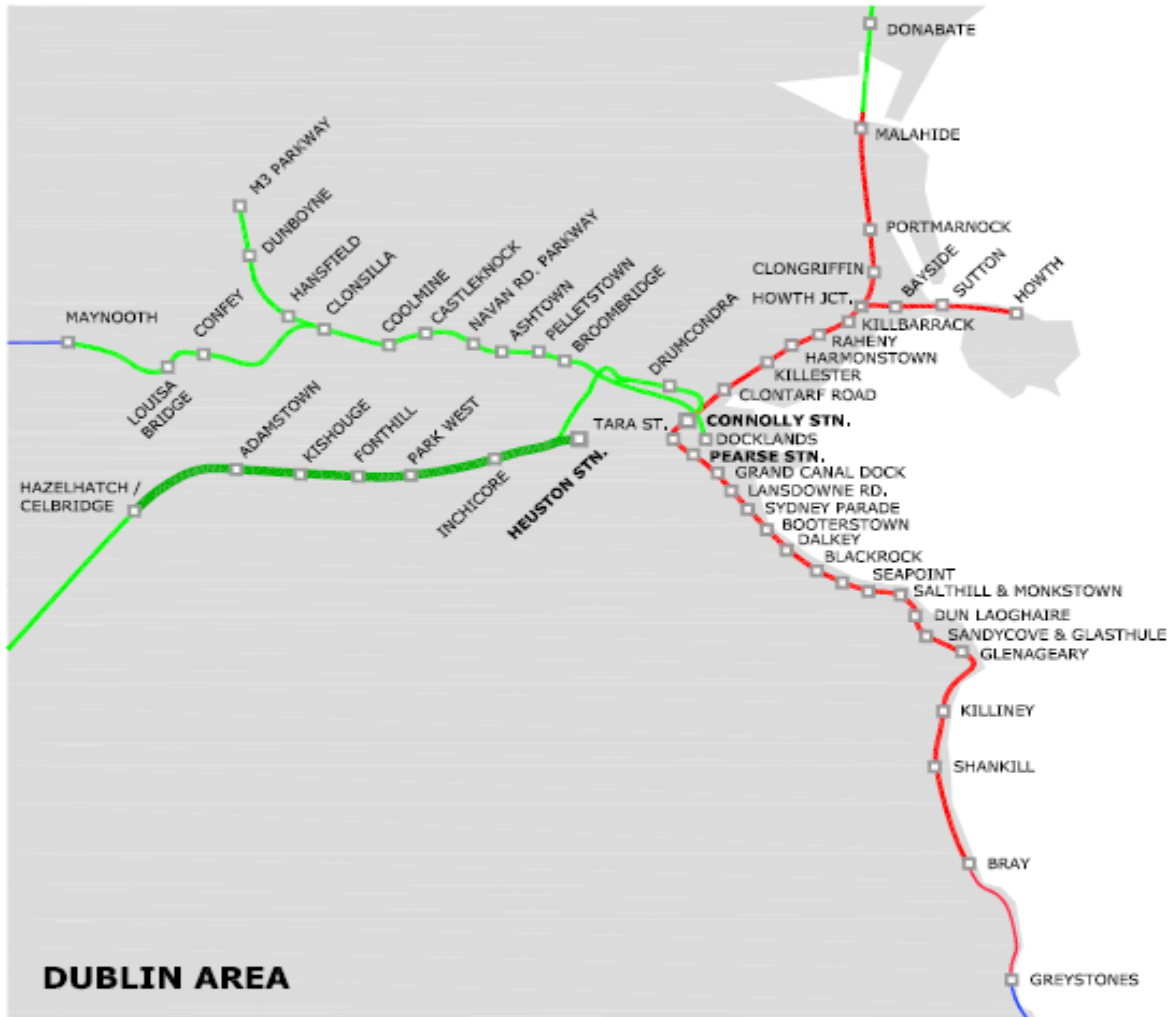
Track Configuration Map 2/2



Version 1,1 October 2021

LEGEND

- █ Multiple Track
- █ Double Track
- █ Double Track (Electrified)
- █ Single Track (Electrified)
- █ Single Track
- Stations / Depots



Appendix 1B: Passenger Stations - Platform Capacity Tables
 (All Measurements Are Rounded Down To The Nearest Metre, TOR=top of ramp)

Route	Station	Platform	Platform type: through or Bay	Usable Length (rounded down to nearest metre)	Usable Length if bi-directionally signalled. other direction	Adjacent line description	TOR to TOR
Dublin Heuston / Cork	Heuston	1	Bay	84	N/A	D.end P line	N/A
		2	Bay	238	N/A	D.end P line	N/A
		3	Bay	238	N/A	D.end P line	N/A
		4	Bay	238	N/A	D.end P line	N/A
		5	Bay	238	N/A	D.end P line	N/A
		6	Bay	238	N/A	D.end P line	N/A
		7	Bay	238	N/A	D.end P line	N/A
		8	Bay	238	N/A	D.end P line	N/A
	Parkwest	1	Through	172	N/A	Down Fast	172.9
		2	Through	172	N/A	Down Slow	172.9
		3	Through	172	N/A	Up Slow	172.9
		4	Through	172	N/A	Up Fast	172.9
	Clondalkin Fonthill	1	Through	174	N/A	Down Slow	175
		2	Through	174	N/A	Up Slow	175
		3	Through	174	N/A	Up Fast	175
		4	Through	174	N/A	Down Fast	175
	Adamstown	1	Through	173	N/A	Down Fast	174.3
		2	Through	173	N/A	Down Slow	174.1
		3	Bay	172	N/A	D.end P line	N/A
		4	Through	184	N/A	Up Slow	184.2
		5	Through	174	N/A	Up Fast	175.5
	Hazelhatch	1	Through	226	N/A	Down Fast	226.7
		2	Through	174	N/A	Down Slow	175.1
		3	Bay	178	N/A	D.end P line	N/A
		4	Through	213	N/A	Up Slow	214.2
		5	Through	223	N/A	Up Fast	225.9

Route	Station	Platform	Platform type: through or Bay	Usable Length (rounded down to nearest metre)	Usable Length if bi-directionally signalled. other direction	Adjacent line description	TOR to TOR
Dublin Heuston / Cork	Sallins	1	Through	175	N/A	Down	175.7
		2	Through	174	174	Up	174.9
	Newbridge	1	Through	271	280m (UP)	Down	279.9
		2	Through	217	N/A	Up	217.4
		3	Bay	175	N/A	D.end P line	N/A
	Kildare	1	Through	213	N/A	Down	213.8
		2	Through	246	246	Up loop	246.8
	Monastervin	Down	Through	215	N/A	Down	215.2
		Up	Through	215	N/A	Up	215.5
	Portarlinton	1	Through	217	217	Up	217.7
		2	Through	215	215	Down	
	Portlaoise	1	Through	239	239	Down	239.7
		2	Through	241	N/A	Up	249.5
	Ballybrophy	1	Through	184	N/A	Up	184.8
		2	Through	183	N/A	Down	183
		3	Bay	89	N/A	D.end P line	N/A
		4	Through	183	N/A	Down Loop	183
	Templemore	1	Through	217	N/A	Up	217.9
		2	Through	218	N/A	Down	218.4
	Thurles	1	Through	230	N/A	Up	230
		2	Through	249	235m (UP)	Down	249.8
	Limerick Jct.	1	Through	256	262m (UP)	Loop	294
		2	Bay	97	N/A	D.end P line	N/A
		3	Bay	92	N/A	D.end P line	N/A
	Charleville	1	Through	215	N/A	Up	215.5
		2	Through	214	N/A	Down	214.9
		3	Through	215	215	Loop	215.1

Route	Station	Platform	Platform type: through or Bay	Usable Length (rounded down to nearest metre)	Usable Length if bi-directionally signalled, other direction	Adjacent line description	TOR to TOR	
Dublin Heuston / Cork	Mallow	1	Through	225	225	Down	225.8	
		2	Through	224	224	Up	224	
		3	Through	223	223	Loop	223.4	
	Cork	1	Bay	170	N/A	D.end P line	N/A	
		2	Bay	135	N/A	D.end P line	N/A	
		3	Bay	90	N/A	D.end P line	N/A	
		4	Through	218	218	Down	218.5	
		5	Through	217	217	Up	217.1	
	Cherryville Jct / Waterford	Athy	Loop	Through	178	N/A	Up	-
			Main	Through	184	N/A	Down	-
Carlow		Loop	Through	211	215	Main Line	215.7	
		Up	Through	174	174	Main Line	174.1	
Mhuine Bheag		1	Through	175	N/A	Main Line	175.3	
		2	Through	175	N/A	Loop Line	175.3	
Kilkenny		1	Bay	147	N/A	Main Line	N/A	
		2	Bay	144	N/A	Loop Line	N/A	
Thomastown		1	Through	175	N/A	Main Line	175.5	
Waterford		5	Bay	193	N/A	Main Line	N/A	
Portarlington - Galway	Tullamore	Main 2	Through	185	185	Loop	185	
		Loop 1	Through	186	186	Main	186.3	
	Clara	1	Through	168	174	Loop	174.8	
	Athlone	1	Through	215	215	Main	215.2	
		2	Through	231	290	Loop	290.2	
		3	Through	290	290	Main	290	
	Ballinasloe	Main (Up)	Through	167	167	Loop	175.6	
		Loop	Through	174	174	Main	174.8	

Route	Station	Platform	Platform type: through or Bay	Usable Length (rounded down to nearest metre)	Usable Length if bi-directionally signalled other direction	Adjacent line description	TOR to TOR
Portarlington - Galway	Woodlawn	1	Through	177	177	Loop	177.2
	Attymon	1	Through	178	178	–	178.2
	Athenry	Down	Through	174	174	Up	174.2
		Up	Through	174	174	Down	174.2
	Oranmore	1	Through	175	175	N/A	175
	Galway	Main	Bay	221	N/A	Loop	–
		Bay	Bay	124	N/A	Main	–
Athlone-Westport	Roscommon	Main	Through	175	N/A	Main	175.1
		Loop	Through	174	N/A	Loop	174.2
	Castlerea	Main	Through	174	N/A	Main	174.7
		Loop	Through	92	N/A	Loop	92.8
	Ballyhaunis	Main	Through	175	N/A	Main	175.3
		Loop	Through	93	N/A	Loop	93.4
	Claremorris	Main	Through	173	N/A	Main	173.1
		Loop	Through	174	N/A	Loop	174.4
	Manulla Junction	Main	Through	165	N/A	Main	171.5
		Bay	Bay	100	N/A	Bay	N/A
	Castlebar	Main	Through	174	N/A	Main	174.2
Westport	Main	Through	174	N/A	Main	174.5	
Manulla Jctn to Ballina	Foxford	Main	Through	91	N/A	Main	91.9
	Ballina	Main	Bay	101	N/A	Main	N/A
Limerick-Ballybrophy	Roscrea	Main	Through	71m	71m	Main	94m
	Cloughjordan	1	Through	95	95	Main	-
	Nenagh	1	Through	114m	114m	Main	114
	Birdhill	1	Through	73m	73m	Main	73
	Castleconnell	1	Through	97	97	Main	-

Route	Station	Platform	Platform type: through or Bay	Usable Length (rounded down to nearest metre)	Usable Length if bi-directionally signalled other direction	Adjacent line description	TOR to TOR
Limerick-Ballybrophy	Limerick	1	Bay	150			156.4
		2	Bay	158			164.6
		3	Bay	187			193.9
		4	Bay	122			128.9
Ennis Jct to Athenry	Sixmilebridge		Through	89			90.2
	Ennis	1	Through	187		Main	189.9
		2	Through	131		Main	131.5
	Gort	1	Through	92			92.5
		2	Loop	92			92.5
	Ardrahan		Through	89			89.9
Craughwell		Through	100				
Limerick Jct to Waterford	Tipperary	1	Through	87(to Waterford) 92(to Lk Jctn)	N/A	Main	92.8
	Cahir	1	Through	95	N/A	Main	95.7
	Clonmel	1	Through	89	N/A	Main	90
		2	Through	123	N/A	Loop	123.5
	Carrick-on-Suir	Main	Through	132	N/A	Main	132.9
Mallow / Tralee	Banteer	Main (1)	Through	138	138	Main Line	177.2
		Loop (2)	Through	105	N/A	Loop line	105.7
	Millstreet	Main (1)	Through	232	N/A	Main Line	233.4
	Rathmore	Main (1)	Through	174	N/A	Main Line	181.2
		Loop (2)	Through	89	N/A	Loop line	96.5
	Killarney	1	Bay	286	N/A	Main	N/A
		2	Bay	172	N/A	Bay	N/A
	Farranfore	1	Through	144	N/A	Main Line	144
		Loop	Through	175	N/A	Loop line	185.6
	Tralee	1	Bay	297	N/A	Main	N/A
2		Bay	304	N/A	Bay	N/A	

Route	Station	Platform	Platform type: through or Bay	Usable Length (rounded down to nearest metre)	Usable Length if bi-directionally signalled. other direction	Adjacent line description	TOR to TOR
Cork / Cobh	Littleisland	1	Through	91	N/A	Down	92
		2	Through	76	N/A	Up	92
	Glounthaune	1	Through	93	N/A	Down	93.1
		2	Through	92	N/A	Up	92.6
	Fota	1	Through	92	N/A	Down	92.3
		2	Through	93	N/A	Up	93.3
	Carrigaloe	1	Through	86	N/A	Down	92.6
		2	Through	92	N/A	Up	92.8
	Rushbrooke	1	Through	93	N/A	Down	93.2
		2	Through	93	N/A	Up	93.2
	Cobh	1	Bay	86	N/A	D.end P line	N/A
	Glounthaune / Midleton	Carrigtwohill	1	Through	90	N/A	Up
2			Through	90	N/A	Down	90.5
Midleton		1	Through	88	N/A	Up	88.9
		2	Through	85	N/A	Down	88.9
Dublin Docklands / Sligo	Docklands	1	Buffer end	168	N/A	D.end P line	N/A
		2	Buffer end	190	N/A	D.end P line	N/A
	Drumcondra	1	Through	176	N/A	Up	178.3
		2	Through	176	N/A	Down	177
	Broombridge	1	Through	173	N/A	Up	173.8
		2	Through	173	N/A	Up	173.8
	Pelletstown	1	Through	172	N/A	Up	174
		2	Through	172	N/A	Down	174
	Ashtown	1	Through	172	N/A	Up	174
		2	Through	Signal not cleared - 178; Signal cleared - 219	N/A	Down	223.3
	Navan Road Parkway	1	Through	172	N/A	Up	174.9
		2	Through	172	N/A	Down	175
	Castleknock	1	Through	174	N/A	Up	175.1
		2	Through	173	N/A	Down	174.8

Route	Station	Platform	Platform type: through or Bay	Usable Length (rounded down to nearest metre)	Usable Length if bi-directionally signalled.other direction	Adjacent line description	TOR to TOR
Dublin Docklands / Sligo	Coolmine	1	Through	175	N/A	Up	177.5
		2	Through	174	N/A	Down	174.5
	Clonsilla	1	Through	187	N/A	Up	177.5
		2	Through	186	186	Down	186.6
		3	Bay	88	N/A	Bay	N/A
	Leixlip Confey	1	Through	175	N/A	Up	176.2
		2	Through	175	N/A	Down	176
	Leixlip Louisa Bridge	1	Through	171	N/A	Up	173.4
		2	Through	174	N/A	Down	175.4
	Maynooth	1	Through	200 (Up)	204(Dn)	Up	222.9
		2	Through	199 (Up)	201(Dn)	Down	217.5
	Kilcock	1	Through	171	171	Main	174.4
	Enfield	1	Through	190 (Dn)	196 (Up)	Loop (only loop platform in use)	225.5
	Mullingar	Main	Through	168 Dn	174 Up	Main	177.7
		Loop	Through	215 Up	212 Dn	Loop	215.3
		Bay	Bay	199	N/A	N/A	N/A
	Edgeworthstown	Loop	Through	215	215	Loop	215.3
		Main	Through	173	173	Main	173.7
	Longford	1 Main	Through	175	175	Main	175.1
		2 Loop	Through	174	174	Loop	174.4
	Dromod	Main	Through	173	173	Main	173.2
		Loop	Through	179	179	Loop	179.9
	Carrick-on-Shannon	1	Through	174	174	Main	174.1
	Boyle	1 Main	Through	216	216	Main	216.8
		2 Loop	Through	175	175	Loop	175.6
	Ballymote	1	Through	174	174	Main	174.2
	Collooney	1	Through	175	175	Main	175.2
Sligo	1	Bay	177	177	UP	N/A	

Route	Station	Platform	Platform type: through or Bay	Usable Length (rounded down to nearest metre)	Usable Length if bi-directionally signalled. other direction	Adjacent line description	TOR to TOR
Clonsilla / M3 Parkway	Hansfield	Up (1)	Through	174	N/A	Up M3-parkway	174.3
		Down (2)	Through	174	N/A	Down M3 parkway	174.7
	Dunboyne	Up (1)	Through	174	N/A	Up M3-parkway	174.7
		Down (2)	Through	174	N/A	Down M3-parkway	174.4
	M3 Parkway	Up (1)	Through	174	N/A	Up M3-parkway	174.7
		Down (2)	Through	173	174	Down M3-parkway	174.4
Dublin Connolly / Rosslare Europort	Tara Street	1	Through	171	168	Up	174
		2	Through	170	167	Down	173
	Pearse	1	Through	171	181	Up	185
		2	Through	175	174	Down	183
	Grand Canal Dock	1	Through	173	169	Up	174.5
		2	Bay	173	173	Bay to up	174.5
		3	Through	172	177	Down	179.4
	Lansdowne Road	1	Through	172	174	Up	174.3
		2	Through	173	167	Down	178
	Sandymount	1	Through	175	167	Up	175.8
		2	Through	172.5	174	Down	174.5
	Sydney Parade	1	Through	180	185 (Dn)	Up	185.9
		2	Through	189	176(Up)	Down	190
	Boosterstown	1	Through	174	175	Up	175
		2	Through	173	174	Down	174
	Blackrock	1	Through	174	174	Up	174.8
		2	Through	172	173	Down	173
	Seapoint	1	Through	174	175	Up	175
		2	Through	169	175	Down	175
	Salthill & Monkstown	1	Through	179	180	Up	180.2
		2	Through	177	178	Down	178.2

Route	Station	Platform	Platform type: through or Bay	Usable Length (rounded down to nearest metre)	Usable Length if bi-directionally signalled other direction	Adjacent line description	TOR to TOR
Dublin Connolly / Rosslare Europort	Dun-Laoghaire	1	Through	186	186	Up	186.9
		2	Through	198(Down)	186(Up)	Down	207.5
		3	Bay	172	N/A	D.end P line	N/A
	Sandycove & Glasthule	1	Through	172	N/A	Up	174
		2	Through	173	N/A	Down	174
	Glenageary	1	Through	172	N/A	Up	173.5
		2	Through	174	N/A	Down	174.5
	Dalkey	1	Through	171	173	Up	173.1
		2	Through	173	174	Down	174
	Killiney	1	Through	175	N/A	Up	175.6
		2	Through	175	N/A	Down	176.4
	Shankill	1	Through	175	N/A	Up	177.1
		2	Through	174	N/A	Down	175.5
	Bray	1	Through	252 Up	186 Down	Up	272.8
		2	Through	168 Down	168(Up)	Down	176
		3	Bay	134	N/A	D.end P line	N/A
	Greystones	1	Through	168 (Up)	176	Up	177.3
		2	Through	174(Dn)	168(Up Direction)	Down	176.2
	Kilcoole	1	Through	137	137	N/A	137.4
	Wicklow	1	Through	133	133	Main	133.1
		2	Through	137	137	Loop	137.2
	Rathdrum	1	Through	128 (Up)	125 (Dn)	Main	128.8
		2	Through	131 (Down)	131(Up)	Loop	131.4
	Arklow	1	Through	132	NA	Main	132.9
		2	Through	137	NA	Loop	137.2
	Gorey	1	Through	136(Up)	135(Dn)	Main	136.1
		2	Through	135(Down)	142(Up)	Loop	142.8
	Enniscorthy	1	Through	135 (Up)	133(Dn)	Main	135.8
		2	Through	139(Dn)	140(Up)	Loop	140.8

Route	Station	Platform	Platform type: through or Bay	Usable Length (rounded down to nearest metre)	Usable Length if bi-directionally signalled. other direction	Adjacent line description	TOR to TOR
Dublin Connolly / Rosslare Europort	Wexford	1	Through	139.5(UP)	140	N/A	145.9m
	Rosslare Strand	1	Through	145	NA	Main	145.2
	Rosslare Europort	2	Through	144(Up)	141(Dn)	Loop	144.2
		1	Bay	144	NA	N/A	146.6
Dublin Connolly / Border	Connolly	1	Bay	160	160	D.end P line	N/A
		2	Bay	224 to CY 55 or 281	224 or 281	D.end P line	N/A
		3	Bay	199	199	D.end P line	N/A
		4	Bay	268	268	D.end P line	N/A
		5	Through	190 South	190 North	Bi directional	207
		6	Island	196 South	193 North	Bi directional	223
		7	Island	221 North	171 South	Bi directional	223
	Clontarf Rd.	1	through	174 South	168 North	up	174.8
		2	Through	170 North	172 South	Down	172.1
	Killester	1	Through	174 South	171 North	Up	175
		2	Through	172 North	175 South	Down	175.2
	Harmonstown	1	Through	174 South	171 North	Up	175.2
		2	Through	171 North	172 South	Down	172.9
	Raheny	1	Through	173 South	174 North	Up	174
		2	Through	173 North	173 South	Down	173.7
	Kilbarrack	1	Through	174 South	175 North	up	175.1
		2	Through	174 North	175 South	Down	175
	Howth Jct.	1	Through	172	174	Up	174.3
		2	Island	180	176	Down	181.5
		3	Island	182	186	Up	188.1
		4	Through	221	209	Down	223.1
	Clongriffin	1	Through	174	N/A	Up	175
		2	Island	174	174	Down	175.2
		3	Island	174	174	N/A	174.7

Route	Station	Platform	Platform type: through or Bay	Usable Length (rounded down to nearest metre)	Usable Length if bi-directionally signalled. other direction	Adjacent line description	TOR to TOR
Dublin Connolly / Border	Portmarnock	1	Through	174	N/A	Up	174.1
		2	Through	174	N/A	Down	174.1
	Malahide	1	Through	170 South	172 North	Up	175.1
		2	Through	174 North	166 South	Down	175
	Donabate	1	Through	178	N/A	Up	178.2
		2	Through	178	N/A	Down	178.4
	Rush & Lusk	1	Through	173	N/A	Up	174.1
		2	Through	174	N/A	Down	174.3
	Skerries	1	Through	174 South	174 North	Up	175.1
		2	Through	175	N/A	Down	175.8
	Balbriggan	1	Through	186 South	186 (for changing ends)	Up	188.3
		2	Through	173	173	Down	173.8
	Gormanston	1	Through	246	N/A	Up	246
		2	Through	201	N/A	Down	202.1
	Laytown	1	Through	175	N/A	Up	175.6
		2	Through	172	N/A	Down	173.8
	Drogheda	1	Through	219	220	Down	220.4
		2	Through	217	215	Up	217.4
		3	Bay	215	N/A	D.end P line	215.4
	Dundalk	1	Through	211	211	Up	211.6
		2	Through	348	347	Down	353.5
		3	Bay	123	N/A	D.end P line	N/A
	Howth Jct. Howth	Bayside	1	Through	193	180	Down
2			Through	174	N/A	UP	194.2
Sutton		1	Through	171	N/A	Down	173.6
		2	Through	173	N/A	UP	175.6
Howth		1	Through	168	168	Up	N/A
		2	Through	166	166	N/A	N/A

Appendix 1C Passenger Stations – Facilities

Station and Contact Telephone Number	Ticket Office Access	Ticket Office Loop System	Platform Access	Public Toilet	Accessible Toilet	Wheelchair Available	Mobile Ramp for Train Access	Car Park	Taxi Rank / Phone No
Adamstown 01 8281060	Via Stairs or Lift	✓	Via Stairs or Lifts	✗	✓	✗	✓	✓	✓
Ardrahan	No ticket office	✗	Level	✗	✗	✗	✗	✓	✗
Arklow 0402 32519	Level	✗	Level to No. 1 & Southbound services, Footbridge to No. 2 & Northbound services	✓	✗	✗	✓	✓	✓
Ashtown 01 8880043	Level	✓	Both platforms accessible via ramp. (assistance required by companion onto city bound platform)	✗	✗	✗	✓	✗	✗
Athenry 091 84 4020	Level	✗	Level	✓	✓	✗	✓	✓	✓
Athlone 090 6473300	Level	✗	Ramp to No. 1 platform. Steps or lift & Subway to No.'s 2 and 3 platforms	✓	✓	✓	✓	✓	✓
Athy 057 07 31966	Level	✓	Via ramp to No. 1 platform, footbridge only to No. 2 platform	✓	✗	✗	✓	✓	✗
Attymon	No ticket Office	✗	Level	✗	✗	✗	✗	✗	✗
Balbriggan 01 8281360	Via ramp from car park	✓	Level on platform No. 2 Lift and Footbridge to platform No. 1	✗	✓	✗	✓	✓	✓
Ballina 096 71 820	Level	✗	Level	✓	✓	✓	✓	✓	✓
Ballinasloe 090 96 421 05	Level	✗	Level to Main platform, footbridge only to loop platform	✓	✓	✓	✓	✓	✓
Ballybrophy 0505 46 331	Level	✓	Ramp to platforms 1 and 2, Platforms 3 and 4 via lift or stairs.	✓	✓	✓	✓	✓	✓
Ballyhaunis 094 96 300 09	Level	✓	Level	✓	✓	✓	✓	✓	✗
Ballymote 071 91 833 11	Level	✗	Level	✓	✓	✗	✓	✓	✓
Banteer 029 56 004	Level	✗	Level to No 1 Platform and by Footbridge to Platform No. 2	✓	✓	✗	✓	✓	✓
Bayside 01 8286880	Level	✓	Access by lift or stairs	✗	✗	✗	✓	✓	✓
Birdhill 061 379118	Via Ramp	✗	Level	✓	✓	✗	✓	✓	✓

Station and Contact Telephone Number	Ticket Office Access	Ticket Office Loop System	Platform Access	Public Toilet	Accessible Toilet	Wheelchair Available	Mobile Ramp for Train Access	Car Park	Taxi Rank / Phone No
Blackrock 01 8880187	Level	✓	Level to Platform No. 1, City Centre & Northbound via station entrance. Platform No. 2, Southbound via lift or stairs	✗	✗	✗	✓	✓	✓
Boosterstown 01 8880186	Via Ramp	✓	Level to Platform No. 1, City Centre & Northbound via station entrance. Platform No. 2, Southbound via lift or stairs	✗	✗	✗	✓	✓	✓
Boyle 071 96 620 27	Level	✗	Level to main platform. Footbridge only to opposite platform	✓	✓	✗	✓	✓	✓
Bray 01 8286305	Level	✓	Level to platform 1,2,3. Lift from platform 1 & 3 to platform 2	Key from staff	✓	✗	✓	✓	✓
Broombridge	No Ticket Office	✗	Both platforms accessible	✗	✗	✗	✗	✗	✗
Cahir	No Ticket Office	✗	Ramp from Car Park	✓	✗	✗	✗	✓	✗
Carlow 059 91 316 33	Step	✓	Level to No. 1 platform. Footbridge only to No. 2 platform	✓	✓	✗	✓	✓	✓
Carrick-on-Shannon 071 96 200 36	Ramp to ticket office	✗	Via ramp situated on West side of main building	✓	✓	✗	✓	✓	✓
Carrick-on-Suir 051 640 044	No Ticket Office	✗	Level via wicket gate from car park to main platform. Footbridge only to opposite platform	✓	✗	✗	✓	✓	✗
Carrigaloe	No Ticket Office	✗	Via footbridge to No. 1 platform Southbound. Via ramp to No. 2 platform Northbound.	✗	✗	✗	✗	✗	✗
Carrigtwohill	No Ticket Office	✗	Ramp to Up platform and by stairs and lifts to Down platform.	✗	✗	✗	✗	✓	✗
Castlebar 094 90 212 22	Level	✗	Level	✓	✓	✓	✓	✓	✓
Castleconnell	No Ticket Office	✗	Via ramp from Roadway	✗	✗	✗	✗	✓	✓
Castlerea 0907 200 31	Level	✓	Level	✓	✓	✓	✓	✓	✗
Castleknock 01 820 1706	Ramp to platform	✓	Dublin bound platform accessible	✗	✗	✗	✓	✗	✗

Station and Contact Telephone Number	Ticket Office Access	Ticket Office Loop System	Platform Access	Public Toilet	Accessible Toilet	Wheelchair Available	Mobile Ramp for Train Access	Car Park	Taxi Rank / Phone No
Charleville 063 81235	Ramp or steps from car park	✗	Level to No. 1 platform. Lift to platform 2 & 3	✓	✓	✓	✓	✓	✓
Clara 057 931 105	Level	✗	Level	✓	✓	✗	✓	✓	✓
Claremorris 094 93 710 11	Level	✓	Level	✓	✓	✓	✓	✓	✓
Clondalkin Fonthill	Level or via Lift	✓	Ramp from car park to Platform No. 2, to city. Ramp from public road or footbridge to Platform No. 1, Southbound.	✗	✓	✗	✓	✓	✗
Clongriffin 01 828 6940	Level	✓	Lifts & Stairs to Platforms	✗	✗	✗	✓	✓	✗
Clonmel 053 21982	Level	✗	Level to main platform. Footbridge only to opposite platform	✓	✗	✗	✓	✓	✗
Clonsilla 01 821 1378	Level	✓	Both platforms accessible	✗	✗	✗	✓	✗	✓
Clontarf Road 01 828 6440	Level	✓	Lift to Both Platforms	✗	✗	✗	✓	✓	✓
Cloughjordan	No Ticket Office	✗	Level	✗	✗	✗	✗	✓	✓
Cobh 021 48 116 55	Level	✗	Via ramp from public road. Assistance will be required	✓	✗	✗	✓	✗	✓
Collooney	No Ticket Office	✗	Level	✓	✓	✗	✓	✓	✗
Connolly 01 7032358	Via lift, escalator, or steps. Level from carpark	✓	Level access to platforms 1, 2, 3 & 4 from ticket office. Ramp or stairs to platform 5. Lift or stairs to platforms 6 & 7.	✓	✓	✓	✓	✓	✓
Coolmine 01 820 1957	Level	✓	Both platforms accessible	✗	✗	✗	✓	✓	✓
Cork 021 45 067 66	Level	✗	Platforms 1, 2, 3 & 4 level. Ramp and lift to no 5 platform	✓	✓	✓	✓	✓	✓
Craughwell	No ticket office	✗	Level	✗	✗	✗	✗	✓	✗

Dalkey 01 828 6240	Level	✓	Access to No. 2 platform, Southbound via station entrance. Ramp to platform No. 1, Northbound and city centre	✗	✗	✗	✓	✓	✓
Station and Contact Telephone Number	Ticket Office Access	Ticket Office Loop System	Platform Access	Public Toilet	Accessible Toilet	Wheelchair Available	Mobile Ramp for Train Access	Car Park	Taxi Rank / Phone No
Docklands 01 828 6380	Via Stairs or Lift	✓	Level to both platforms	✗	✗	✗	✓	✗	✓
Donabate 01 828 1300	Level	✓	Platforms accessible via car parks	✓	✓	✗	✓	✓	✓
Drogheda 041 98 387 49	Level	✓	Level to No. 1 platform. Lift or footbridge to No. 2 and 3 platforms	✓	✓	✓	✓	✓	✓
Dromod 071 96 382 03	Level	✗	Level to main platform. Footbridge to No. 2 platform	✓	✓	✗	✓	✓	✓
Drumcondra 01 830 5311	Level	✓	Lift to both platforms	✗	✗	✗	✓	✗	✓
Dunboyne	Level	✓	Level to main platform. Lifts and stairs to other platform	✗	✗	✗	✓	✓	✓
Dundalk 042 35521	Level	✓	Ramp or lift to platforms No.'s 1 and 2	✓	✓	✓	✓	✓	✓
Dun Laoghaire 01 8286180	Via Ramp	✓	Lifts to both platforms	Key from Staff	✓	✓	✓	✗	✓
Edgeworthstown 043 66 710 31	Level	✓	Level to main platform. Footbridge to No. 2 platform	✓	✓	✗	✓	✓	✓
Enfield	No Ticket Office	✗	Stairs only	✗	✗	✗	✗	✓	✗
Ennis 065 68 404 44	Via steps or ramp from car park	✗	Level	✓	✓	✓	✓	✓	✓
Enniscorthy 053 92 334 88	Level	✗	Level. Stairs only to opposite platform.	✓	✓	✗	✓	✓	✗
Farranfore 066 641 01	Via small step from platform	✗	Level	✓	✗	✗	✓	✓	✗
Fota	No Ticket Office	✗	Level Southbound and Cobh. Footbridge only to Northbound and Cork	✗	✗	✗	✗	✗	✗
Foxford	No Ticket Office	✗	Level	✗	✗	✗	✗	✓	✗
Galway	Level	✗	Ramp to Main Entrance	✓	✓	✓	✓	✗	✓

091 564222									
Glenageary 01 8286220	Level	✓	Stairs or Lifts to both platforms	✗	✗	✗	✓	✗	✓
Station and Contact Telephone Number	Ticket Office Access	Ticket Office Loop System	Platform Access	Public Toilet	Accessible Toilet	Wheelchair Available	Mobile Ramp for Train Access	Car Park	Taxi Rank / Phone No
Glounthaune	No Ticket Office	✗	Level to No. 1 platform Southbound and Cobh Footbridge only to No. 2 platform Northbound and Cork	✗	✗	✗	✗	✗	✗
Gorey 0539 421105	Level	✗	Level - Stairs only to opposite platform.	✓	✓	✗	✓	✓	✗
Gormanston	Level	✗	Level to No. 1 platform Via steps from public road to No. 2 platform	✗	✗	✗	✓	✓	✗
Gort	No Ticket Office	✗	Level to main platform. By stairs and lifts to loop platform.	✗	✗	✗	✗	✓	✗
Grand Canal Dock 01 8286020	Lift or Stairs to Ticket Office	✓	Level to Southbound platform. Lift or Stairs to Northbound platform.	✗	✗	✗	✓	✗	✓
Greystones 01 8286340	Level	✓	Level to platform No. 1, Northbound. Footbridge only to No. 2 platform, Southbound	Key from Staff	Key from Staff	✗	✓	✓	✓
Hansfield 01 8281540	Via ramp or stairs	✓	Via ramp or stairs	✗	✗	✗	✓	✗	✗
Harmonstown 01 8286480	Level	✓	Ramps to both platforms	✗	✗	✗	✓	✗	✓
Hazelhatch & Celbridge 01 8880406	Portacabin	✗	Both platforms accessible via ramps from car parks on either side	✗	✗	✗	✗	✓	✗
Heuston 01 7033299	Level	✗	Level	✓	✓	✓	✓	✓	✓
Howth 01 8286920	Via gate and ramp from roadway	✓	Via gate and ramp from roadway	✗	✗	✗	✓	✓	✓
Howth Junction & Donaghmede 01 8286840	Level	✓	Access to all platforms via lifts or stairs.	✗	✗	✗	✓	✗	✓
Kilbarrack 01 8286820	Level	✓	Platforms accessible via ramps or steps	✗	✗	✗	✓	✗	✓

Kilcock	No Ticket Office	✘	Platform accessible via station entrance. This is not wheelchair accessible	✘	✘	✘	✘	✓	✘
Station and Contact Telephone Number	Ticket Office Access	Ticket Office Loop System	Platform Access	Public Toilet	Accessible Toilet	Wheelchair Available	Mobile Ramp for Train Access	Car Park	Taxi Rank / Phone No
Kilcoole	Not Level	✘	Access only via wicket gate. This is not wheelchair accessible.	✘	✘	✘	✘	✘	✘
Kildare 045 521224	Level	✘	Level to No. 1 platform. Via wicket gate or footbridge to No. 2 platform	✓	✓	✓	✓	✓	✓
Kilkenny 056 7722024	Ramp or steps from car park	✓	Level. Stairs only to opposite platform.	✓	✓	✓	✓	✓	✓
Killarney 064 31067	Level	✘	Level	✓	✓	✓	✓	✓	✓
Killester 01 8286460	Level	✓	Ramps to both platforms.	✘	✘	✘	✓	✘	✓
Killiney 01 8286260	Level	✓	Ramp to No. 1 platform city centre and Northbound. Lifts or stairs to No. 2 and Southbound	Key from Staff	✓	✘	✓	✘	✓
Lansdowne Road 01 8286040	Via Ramp	✓	Level to No. 1 platform Northbound and city centre. Via ramp and gate to No. 2 Southbound.	✘	✘	✘	✓	✘	✓
Laytown 041 9875011	Level	✓	Ramp from station car park to No. 2 platform. Lifts or stairs to No. 1 platform	✘	✘	✘	✓	✓	✘
Leixlip Confey 01 8880055	Level	✓	Level to platform serving Maynooth. Ramp to platform serving city centre	✘	✘	✘	✓	✓	✓
Leixlip Louisa Bridge 01 8880056	Level	✓	Lift to platform serving Maynooth. Ramp to platform serving city centre	✘	✘	✘	✓	✓	✓
Limerick 061 418666	Via steps or ramp from car park	✓	Level	✓	✓	✓	✓	✓	✓
Limerick Junction 062 51824	Steep ramp from car park	✘	Level	✓	✓	✓	✓	✓	✓
Little Island 021 4354120	Via ramp from roadway	✘	Via Ramps and/or footbridge to both platforms	✓	✘	✘	✘	✘	✘

Longford 043 45208	Level	✘	Level to no. 1 platform. Lift or stairs to no. 2 platform	✓	✓	✓	✓	✓	✓
M3 Parkway	Level	✓	Level to no. 2 platform. Lift or stairs to no. 1 platform	□	□	□	✓	✓	□
Station and Contact Telephone Number	Ticket Office Access	Ticket Office Loop System	Platform Access	Public Toilet	Accessible Toilet	Wheelchair Available	Mobile Ramp for Train Access	Car Park	Taxi Rank / Phone No
Malahide 01 8286960	Level	✓	Level to platform No. 1 city centre. Footbridge to platform No. 2 or ramp via public road by prior arrangement with station staff	✘	✘	✘	✓	✓	✓
Mallow 022 21120	Level	✘	Level to No. 1 platform Lifts and footbridge to No.'s 2/3 platforms.	✓	✓	✓	✓	✓	✓
Manulla Junction	Transfer point only	✘	Level	✘	✘	✘	✘	✘	✘
Maynooth 01 6285509	Level	✓	Level	✓	✓	✘	✓	✓	✓
Midleton	No Ticket Office	✘	Level to platform	✘	✘	✘	✘	✓	✘
Millstreet 029 70096	Level	✘	Level	✓	✘	✘	✓	✓	✓
Monsaterevin 045 527419	Level	✘	Level to Northbound platform. Lift to Southbound platform	✘	✘	✘	✓	✓	✓
Muine Bheag 059 9721302	Level	✘	Level. Stairs only to opposite platform.	✓	✘	✘	✓	✓	✓
Mullingar 044 48274	Ramp at front entrance	✘	Level to Platform 1 from which most trains depart. Access to platform 2 via stair lift and subway.	✓	✓	✓	✓	✓	✓
Navan Road Parkway 1850 366 222	Level	✓	Lifts to platforms	✘	✘	✘	✓	✓	✘
Nenagh 067 31232	Level	✘	Level	✓	✓	✘	✓	✓	✓
Newbridge 045 431219	Level	✘	Level to platform No. 1. Via footbridge and wicket gate to platform No. 2	✓	✓	✘	✓	✓	✓
Oranmore 1850 366222	Level	✓	Steps and Ramp	✘	✘	✘	✓	✓	✘
Park West & Cherry Orchard	Via Lift	✓	Level to No. 2 platform, to city. Footbridge only to No. 1 platform, southbound	✓	✓	✘	✓	✘	✘

Pearse 01 8286000	Level	✗	Ramp to platform No. 1 city centre and Northbound. Lift to No. 2 platform and Southbound	✓	✓	✗	✓	✗	✓
Station and Contact Telephone Number	Ticket Office Access	Ticket Office Loop System	Platform Access	Public Toilet	Accessible Toilet	Wheelchair Available	Mobile Ramp for Train Access	Car Park	Taxi Rank / Phone No
Pelletstown	No Ticket Office	✗	North to Platform No.1 and No. 2: Ramp/Steps and bridge South to Platform No.1 and No.2: Ramps/Steps, Ramp/Steps, Bridge, Ramps/Steps.	✗	✗	✗	✓	✗	✗
Portarlington 05786 23128	Level	✗	Level to platform No. 1. Lift and footbridge to Platform No. 2	✓	✓	✓	✓	✓	✓
Portlaoise 05786 21303	Level	✗	Level to platform No. 2. Lift and footbridge to Platform No. 1	✓	✓	✓	✓	✓	✓
Portmarnock 01 8280100	Level	✗	Lifts or stairs to northbound platform. Ramp to southbound platform	✗	✗	✗	✓	✓	✓
Raheny 01 8286800	Level	✓	Lift and Ramp to No. 1 platform city centre and Southbound. Ramp to No. 2 and Northbound	✗	✗	✗	✓	✗	✓
Rathdrum 0404 46426	Level	✗	Via steep ramp to main platform (assistance will be required) and by footbridge only to 2nd platform	✓	✗	✓	✓	✓	✓
Rathmore 064 58006	Level	✗	Level to the main platform and by footbridge to No. 2 platform	✓	✗	✗	✓	✓	✗
Roscommon 0903 26201	Level	✗	Level to the main platform	✓	✓	✗	✓	✓	✓
Roscrea 0505 21823	Level	✗	Level	✓	✗	✗	✓	✓	✓
Rosslare Europort 0539 157930	Level	✗	Via ramp from car park	✓	✓	✓	✓	✓	✓
Rosslare Strand 0539 132262	Level	✗	Level to main platform. Via laneway and wicket gate or footbridge to 2nd platform	✓	✗	✗	✓	✓	✗
Rush & Lusk 01 8880103	Level	✓	Level	✓	✓	✗	✓	✓	✓
Rushbrook	No Ticket Office	✗	Via footbridge to Cobh and Southbound platform. Via ramp to Cork and Northbound platform	✗	✗	✗	✗	✗	✗
Sallins & Naas 01 8880414	Portacabin	✗	Access to platforms via ramps from car parks on either side	✗	✗	✗	✓	✓	✗

Salthill & Monkstown 01 8286160	Level	✓	Via ramp from roadway to No. 1 platform city centre and northbound. Footbridge only to No. 2 platform southbound.	✗	✗	✗	✓	✓	✓
Station and Contact Telephone Number	Ticket Office Access	Ticket Office Loop System	Platform Access	Public Toilet	Accessible Toilet	Wheelchair Available	Mobile Ramp for Train Access	Car Park	Taxi Rank / Phone No
Sandycove & Glashule 01 8286200	Level	✓	Via ramp to both platforms. Lift to northbound platform via laneway	✗	✗	✗	✓	✗	✓
Sandymount 01 8286060	Via Ramp	✓	Via ramp and gate to No. 1 platform, city centre & Northbound. Via ramp to No. 2 platform and Southbound	✗	✗	✗	✓	✗	✓
Seapoint 01 8286140	Step to access ticket office	✓	Footbridge and steps to Southbound platform. Steps and footbridge to platform No. 1 city centre and Northbound	✗	✗	✗	✗	✗	✓
Shankill 01 8286280	Via ramp	✓	Lifts or stairs to northbound and southbound platforms	✗	✗	✗	✓	✗	✓
Sixmilebridge	No ticket office	✗	Ramp from car park	✗	✗	✗	✗	✓	✗
Skerries 01 8880013	Level	✓	Level to platform No. 1. Lift and footbridge to platform No. 2.	✓	✓	✗	✓	✓	✓
Sligo 071 9169888	Via ramp from car park	✗	Level	✓	✓	✓	✓	✓	✓
Sutton 01 8286900	Via ramp from car park	✓	Level to platform No. 1 city centre and Southbound. Via wicket gate on station road to platform No. 2 Northbound	✗	✗	✗	✓	✓	✓
Sydney Parade 01 8286080	Via Ramp	✓	Level to platform No. 1 city centre and Northbound. Via ramp and gate on Sydney Parade Ave. to platform No. 2 Southbound	✗	✗	✗	✓	✗	✓
Tara Street 01 8880132	Level	✓	Both platforms accessible by lifts and/or by stairs or escalators.	✗	✗	✗	✓	✗	✓
Templemore 0504 31342	Level	✗	Via wicket gate from car park to No. 1 platform and by lift and footbridge to No. 2 platform.	✓	✓	✗	✓	✓	✓
Thomastown 056 7724218	Level	✗	Level	✓	✗	✗	✓	✓	✗
Thurles 0504 21733	Level	✓	Level to Platform 1. Via Lift or Stairs and Footbridge to Platform No. 2	✓	✓	✓	✓	✓	✓
Tipperary	Low step	✗		✗	✗	✗	✗	✓	✗

062 51206			Via wicket gate from car park						
Tralee 066 7123522 / 7123509	Level	✘	Via ramp	✓	✓	✓	✓	✓	✓
Station and Contact Telephone Number	Ticket Office Access	Ticket Office Loop System	Platform Access	Public Toilet	Accessible Toilet	Wheelchair Available	Mobile Ramp for Train Access	Car Park	Taxi Rank / Phone No
Tullamore 0506 21431	Level	✘	Level to No. 1 platform and by footbridge only to No. 2 platform	✓	✘	✘	✓	✓	✓
Waterford 051 873401	Level	✘	Level	✓	✓	✓	✓	✓	✓
Westport 098 25253	Level	✘	Level	✓	✓	✓	✓	✓	✓
Wexford 0539 122522	Level	✓	Level	✓	✓	✘	✓	✓	✓
Wicklow 0404 67329	Level	✘	Level	✓	✓	✓	✓	✓	✓
Woodlawn	No Ticket Office	✘	Level	✓	✓	✘	✓	✓	✘

Note: Please contact IÉ R.U. regarding which stations are staffed / unstaffed.

Appendix 2 - Iarnród Éireann Terminals & Freight Depots

These terminals form part of the Iarnród Éireann network. All are intermodal terminals handling the interchange of traffic between road and rail modes.

IÉ is responsible for the allocation of track capacity within the terminals. Terminal capacity should be requested as part of the capacity allocation process.

Terminal Location	Traffic(s) Handled	Loading/Unloading Equipment	Current Train Size
Ballina	Pulpwood	Truck's crane	12 x 60' 0" wagons
	Containers	Reach Stacker	18 x 47' 6" wagons
Westport	Pulpwood	Truck's crane	12 x 60' 0" wagons
Waterford	Pulpwood	Truck's crane	12 x 60' 0" wagons
	Bulk Cement		

Other Terminals

In addition to the Iarnród Éireann depots above there are a number of facilities which are not owned or operated by IÉ. Questions regarding capacity, technical features, access etc. should be put to the relevant authority.

Dublin North Wall - The Dublin Port Company own tramway on Alexander Road which gives access to a number of privately owned freight sidings and depots, including Tara Mines' Dublin facility (see below). The DPC tramway is connected to the IÉ network at East Wall Road.

Contact: Dublin Port Company, Port Centre, Alexandra Road, Dublin 1. Phone: + 353 (0)1 887 6000; e-mail: info@dublinport.ie; fax: + 353 1 855 7400

Tara Mines - Two depots: one at Tara Mines at Navan in Co Meath, where ore trains are loaded, and the other at the North Wall in Dublin, where they are unloaded by means of a tippler.

The Navan site is connected to the IÉ network at Tara Junction on the Drogheda – Tara Mines Freight Only railway line. The Dublin depot is accessed by way of the Dublin Port Company's tramway (see above) and handles rail-ship transhipments.

Contact: Boliden Tara Mines Limited, Navan, Co. Meath. Phone + 353 (0)46 907 9800; Fax + 353 (0)46 907 9899

Belview Port, Waterford - This freight terminal is owned by the Port of Waterford and is situated downstream from Waterford on the River Suir.

Contact: Port of Waterford Company, 3rd Floor Marine Point, Belview Port, Slieverue, Waterford. Phone: + 353 (0)51 874 907; e-mail: info@portofwaterford.com; Fax: + 353 (0)51 87408

Irish Cement Factory -

Contact: Irish Cement Ltd., Platin, Drogheda, Co. Louth. Phone: + 353 (0)41 987 6000; e-mail: info@irishcement.ie; Fax: + 353 (0)41 987 6400.



Appendix 2A - Freight Depots

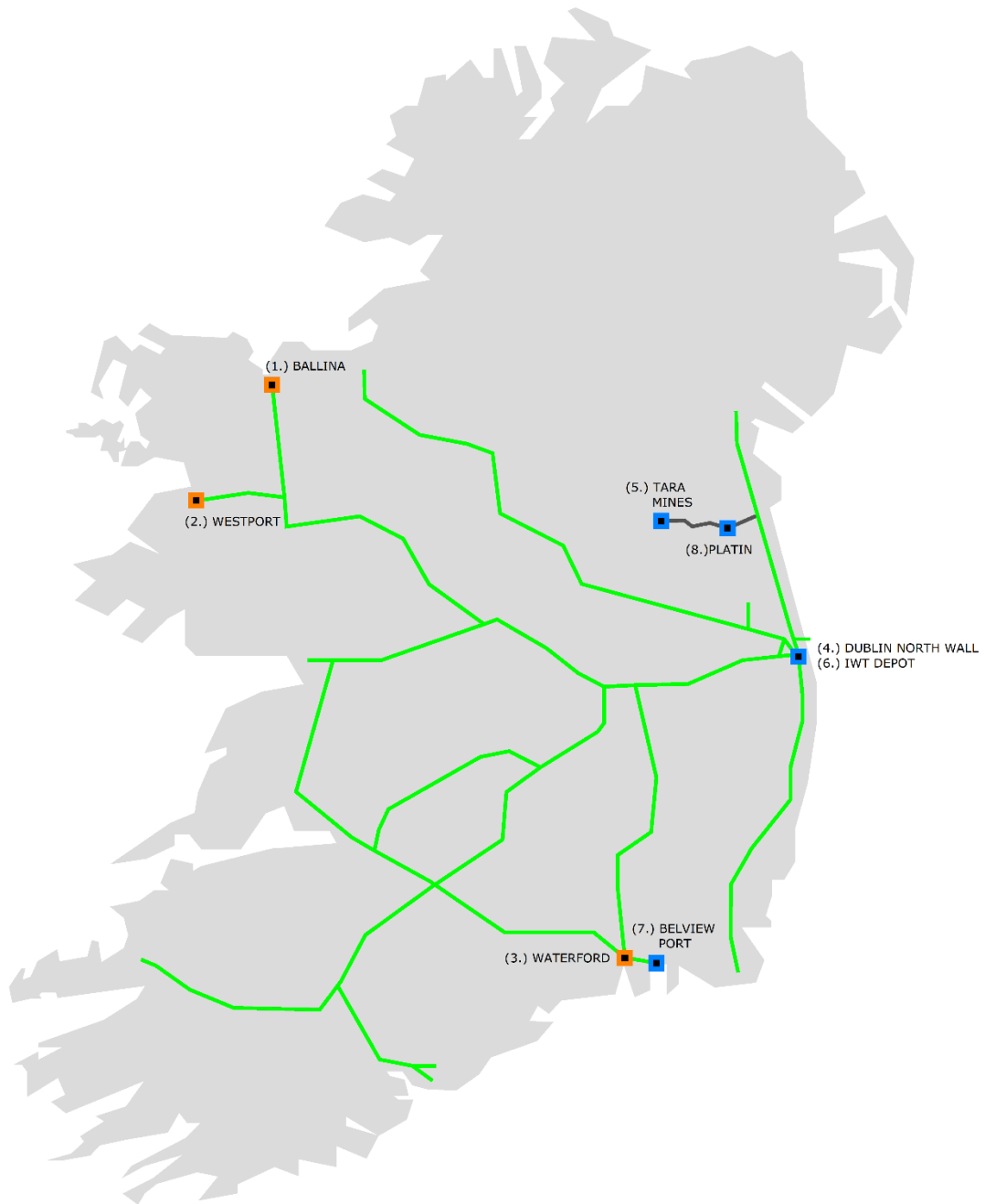
Appendix 2A

Freight Depots



LEGEND

-  Iarnród Éireann Freight Depot
-  Other Freight Depot



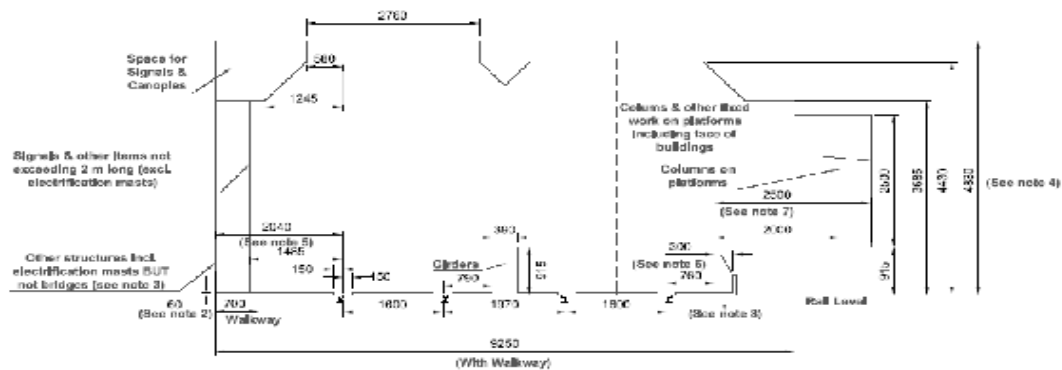
Appendix 3 Structure and Loading Gauges

IRL1 – THE IÉ AND NIR STANDARD STRUCTURE GAUGE

IRL1, the IÉ and NIR Standard Structure Gauge (see Figure 6.1), gives the minimum clearances that must be applied to all new lines and all new structures and reconstruction work on existing lines.

Figure 6.1: IRL1 – The IÉ and NIR Standard Structure Gauge

IRL1 - IE & NIR Interoperability Standard Structure Gauge



Notes

1. Curves
 - a) On horizontal curves, due allowance must be made for curvature and cant effects.
 - b) On vertical curves, due allowance must be made for the effects of such curvature.
2. The underclearance protrusion limit of 60 mm for structures is subject to all restrictions set down in this standard.
3. Bridge abutments must be 4500 mm from the nearest running edge, except that a minimum of 2500 mm applies when the abutments are designed for collision loading.
4. Bridges
 - a) The vertical height of 4830 mm is a finished height. A greater height must be provided if the track has to be lifted for relaying or if improved vertical alignment is required.
 - b) Where reduced dimensions for OHLE are agreed, it may be possible to reduce this dimension to 4690 mm.
 - c) If electrification is envisaged and there is a level crossing nearby, vertical clearance must be increased sufficiently to provide OHLE clearance up to 6140 mm at the crossing.
5. This dimension includes an allowance for a 700 mm wide walkway. If no walkway is provided, the dimension may be reduced to 1790 mm.
6. The absolute minimum lateral dimension is 730 mm.
7. Single face platforms must be a minimum 3000 mm wide if sub-surface, otherwise a minimum 2500 mm but preferably at least 3000 mm wide; these dimensions apply for speeds up to 165 km/h. The minimum distance from the platform edge to the face of any column must be 2000 mm.
8. As far as is practicable, this space is to be kept clear of permanent obstructions but may be used for signalling apparatus and bridge girders.

Extract from I-PWY-1101, Issue 1.1

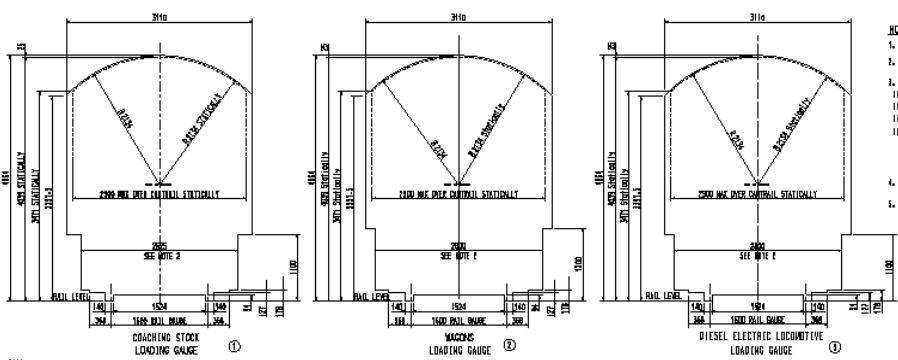
DATE: 08/04/19
 DRAWN: []
 CHECKED: []

17 1/4 DIA BT ASK

NO.	DESCRIPTION	ISSUE NO.	DATE

NOTE COACHING STOCK & INTER-CITY RAILCARS

- The gauge shown is a dynamic gauge which cannot be infringed under any foreseeable conditions of wear, failure and dynamic movement. Dynamic movement shall be based on the worst effects generated by:
 - 111) Road-hill clearance
 - 112) Speed of up to 160km per hour
 - 113) Shunting on a cant of 10mm
 - 114) Running on a cant deficiency of 115mm
 - 115) Quality of GISH PAUL track.
- Gauges may be 200mm wide dimensionally (including steel/rail tolerances)
- All dimensions are based on a vehicle having:
 - 111) Length over body 23,000mm
 - 112) Bogie centre 16,000mm
 - 113) End throw 2525R - mm
 - 114) Centre throw 2525R - mm
 where R = radius in meters.
 For the purpose of calculation R may be taken as 150m
- Specifically the vehicle must not exceed the dimensions shown by the broken line
- See back to back dimension 15N.27

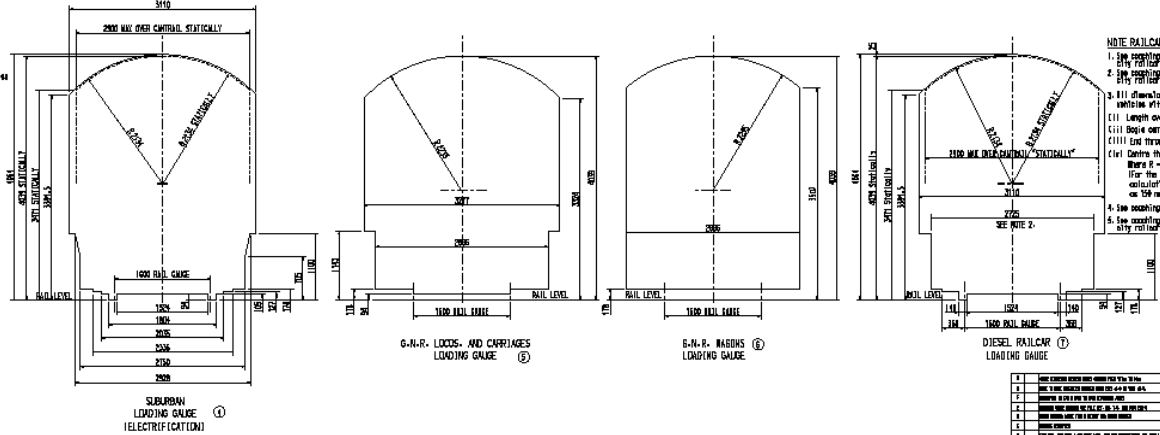


NOTE LOCOMOTIVES

- See coaching stock & Inter-city railcar note 1.
- See coaching stock & Inter-city railcar note 2.
- All dimensions are based on locomotive with:
 - 111) Length over body 18150mm
 - 112) Bogie centre 13410mm
 - 113) End throw 2140R - mm
 - 114) Centre throw 2140R - mm
 where R = Radius in meters.
 For the purpose of clearance calculation R may be taken as 150 meters.
- See coaching stock & Inter-city railcar note 4.
- See coaching stock & Inter-city railcar note 5.

NOTE SUBURBAN ELECTRIFICATION

- See coaching stock & Inter-city railcar note 1.
- See coaching stock & Inter-city railcar note 2.
- All dimensions are based on vehicles:
 - 111) Length over body 20250mm
 - 112) Bogie centre 14010mm
 - 113) End throw 2576R - mm
 - 114) Centre throw 2525R - mm
 where R = Radius in meters.
 For the purpose of clearance calculation R may be taken as 150 meters.
- See coaching stock & Inter-city railcar note 4.
- See coaching stock & Inter-city railcar note 5.



NOTE RAILCARS

- See coaching stock & Inter-city railcar note 1.
- See coaching stock & Inter-city railcar note 2.
- All dimensions are based on vehicles with:
 - 111) Length over body 20250mm
 - 112) Bogie centre 14010mm
 - 113) End throw 2576R - mm
 - 114) Centre throw 2525R - mm
 where R = Radius in meters.
 For the purpose of clearance calculation R may be taken as 150 meters.
- See coaching stock note 4.
- See coaching stock & Inter-city railcar note 5.

NO.	DESCRIPTION	ISSUE NO.	DATE
1	SEE COACHING STOCK AND INTER-CITY RAILCAR NOTE 1.		
2	SEE COACHING STOCK AND INTER-CITY RAILCAR NOTE 2.		
3	SEE COACHING STOCK AND INTER-CITY RAILCAR NOTE 3.		
4	SEE COACHING STOCK AND INTER-CITY RAILCAR NOTE 4.		
5	SEE COACHING STOCK AND INTER-CITY RAILCAR NOTE 5.		

FOR INFORMATION OF THE USER, THIS DRAWING IS UNCONTROLLED COPY.

Appendix 4 Iarnród Éireann Speed Limits

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS		
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour	
Islandbridge Junction to North Wall (via North Wall GSWR Branch)	Maximum line speed limit subject to lower limits set out below	Up	0	5 1/4	30	50	201 class may operate normally at the speeds shown in adjacent column		
		Up	Through Junction	0	1	20		30	
		Up	Through Junction	0	1	20		30	
		Up	Through Junction	4 1/4	4 5/8	20		30	
		Up	Church Road to North Wall	4 5/8	5 1/4	5		10	
UP LINE	North Strand Junction to Church Road	Up	4 1/4	4 5/8	20	30			
	Church Road to North Wall	Up	4 5/8	5 1/4	5	10			
	Up Trains Approaching Down Loop (Platform No.10)	Up	-	-	10	15			
North Wall to Islandbridge Junction (via North Wall GSWR Branch)	Maximum line speed limit subject to lower limits set out below	Down	5 1/4	0	30	50	201 class may operate normally at the speeds shown in adjacent column		
		Down	5 1/4	4 3/4	5	10			
		Down	4 3/4	4 1/4	20	30			
		Down	Through Junction	0	0	20		30	
		Down	Through Tunnel to and through Islandbridge Jctn. Departing Down Loop (Platform No.10 Heuston)	1	0	20		30	
		Down	-	-	20	30			
		Down	-	-	20	30			
DOWN LINE	Through Islandbridge Junction	Up	Through Junction	0	3/8	20	30		
(Including Down Loop/Platform No 10 at Heuston)	Up Trains from Islandbridge Junction to Tunnel	Up	0	3/8	20	30			
	Up Trains Approaching Down Loop (Platform No.10)	Up	-	-	10	15			
Dublin (Heuston Station) to Inchicore	Maximum line speed limit subject to lower limits set out below: The RELIEF MAIN is the running line that commences at platform No.2 Heuston Station and runs as far as Inchicore (1 5/8 miles). Between Islandbridge Junction and Inchicore, it is the left-hand of the three lines, running in the down direction, going towards Inchicore DOWN TRAINS Heuston Station Yard Heuston to Inchicore Crossover No.708 Down Main to Relief Main Crossover No.704 Down Main to Relief Main UP TRAINS Crossover No.704 Down Main to Relief Main Crossover No.708 Down Main to Relief Main Heuston Station Yard Heuston Station Yard	Down Trains	0	1 5/8	40	65	201 Class may operate normally at the speeds shown in adjacent column		
		Up Trains	1 5/8	0	25	40			
		Down	0	1/2	20	30			
		Down	1/2	1	25	40			
		Down	near	7/8	25	40			
		Down	near	1 5/8	40	65			
		Up	near	1 5/8	25	40			
		Up	near	7/8	25	40			
		Up	1/2	1/4	15	25			
		Up	1/4	0	10	15			
		RELIEF MAIN							
		Dublin (Heuston Station) to Cork (Kent Station)	Maximum line speed limit subject to lower limits set out below See bottom of this table for permitted speeds for trains operating in the up direction between Inchicore and Heuston Station	Down	0	185 3/4		100	160
DOWN MAIN LINE	Heuston Station Yard	Down	0	1/2	20	30			
	Heuston to Inchicore	Down	1/2	1	25	40			
	Crossover No.709 Down Main to Up Main	Down	near	7/8	25	40			
	Heuston to Inchicore	Down	1	1 3/4	40	65			
	Crossover No. 708 Down Main to Up Main	Down	near	1 5/8	40	65			
	Inchicore to Cherry Orchard	Down	1 3/4	2 1/4	70	110			
	Inchicore to Cherry Orchard	Down	2 1/4	2 3/4	80	130			
	Inchicore to Cherry Orchard - FREIGHT ONLY	Down	2 1/2	2 3/4	10	15			
DOWN SLOW	Signal HK101 to south of Hazelhatch	Down Slow	2 3/4	10 1/2	70	110			
		The DOWN SLOW Line is the RIGHT hand of the two lines running in the down direction through the four track section between Cherry Orchard and Hazelhatch							
DOWN FAST	Signal HK101 to south of Hazelhatch	Down Fast	2 3/4	10 1/2	100	160			
		The DOWN FAST Line is the LEFT hand of the two lines running in the down direction through the four track section between Cherry Orchard and Hazelhatch							

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Dublin (Heuston Station) to Cork (Kent Station) Contd. DOWN LINE	Newbridge to Kildare	Down	27	27 3/4	80	145	201 Class may operate normally at the speeds shown in adjacent column	
	Newbridge to Kildare	Down	27 3/4	28 1/2	80	130		
	Newbridge to Kildare	Down	28 1/2	29	80	145		
	Through Portllington	Down	41 1/8	41 3/4	80	130		
	Portlaoise to Ballybrophy	Down	50 3/4	52 1/2	90	145		
	Portlaoise to Ballybrophy	Down	52 1/2	69	100	160		
	Through Ballybrophy to Lisduff	Down	69	71 1/4	90	145		
	Through Lisduff to Thurles	Down	71 1/4	77	100	160		
	Lisduff to Thurles	Down	77	79	90	145		
	Lisduff to Thurles	Down	79	80	100	160		
	Lisduff to Thurles	Down	80	87 1/4	90	145		
	Thurles to Limerick Junction	Down	87 1/4	87 3/4	70	110		
	Thurles to Limerick Junction	Down	87 3/4	98 1/4	100	160		
	Thurles to Limerick Junction	Down	98 1/4	104	90	145		
	Thurles to Limerick Junction	Down	104	105 3/4	100	160		
	Thurles to Limerick Junction	Down	105 3/4	106	90	145		
	Thurles to Limerick Junction	Down	108	108 1/4	80	95		
	(See Also Limerick Junction to Charleville)							
	Through Limerick Jctn. Loop to Limerick Crossover No. 901 Down Main to Up Main	Up & Down	Down	108	108 1/2	20		30
	Limerick Junction to Charleville (See Also Thurles to Limerick Junction)	Down	Down	108	108 1/4	40		65
	Limerick Junction to Charleville	Down	Down	108 1/4	110	90		145
	Through Charleville and to Mallow	Down	Down	129	130 1/4	80		130
	Charleville to Mallow	Down	Down	130 1/4	134 1/2	90		145
	Charleville to Mallow	Down	Down	138 1/2	140 3/4	80		130
	Charleville to Mallow	Down	Down	140 3/4	143 1/4	90		145
	Charleville to and through Mallow Station	Down	Down	143 1/4	144 3/4	80		130
	Crossover 579 Down Main to Up Main into Up Platform	Down	Down	144	144 1/2	30		50
	Mallow Station: entering & leaving Down Yard	Down	Down	-	-	10		15
	Mallow to Rathpeacon	Down	Down	144 3/4	145	80		130
	Mallow to Rathpeacon	Down	Down	148 3/4	150 3/4	90		145
	Mallow to Rathpeacon	Down	Down	150 3/4	151 1/2	80		130
	Mallow to Rathpeacon	Down	Down	151 1/2	153 3/4	70		110
	Mallow to Cork	Down	Down	153 3/4	161 1/2	90		145
	Mallow to Cork	Down	Down	161 1/2	162	65		105
Mallow to Cork	Down	Down	162	163 1/2	60	95		
Mallow to Cork	Down	Down	163 1/2	164 1/4	50	80		
Mallow to Cork	Down	Down	164 1/4	165 1/8	30	50		
Through Cork Station and yard	Down	Down	165 1/8	165 3/4	15	25		
Up Trains Operating over Down Line between Inchicore & Heuston Station	Permitted speeds for trains operating in the up direction, over the Down Cork Line, between Inchicore and Heuston Station							
	Inchicore to Heuston	Up	2 1/4	1 1/4	80	95		
	Crossover No.705 Down Main to Up Main	Up	near	1 5/8	40	65		
	Crossover No.704 Down Main to Relief Main	Up	near	1 5/8	25	40		
	Crossover No.708 Down Main to Relief Main	Up	near	7/8	25	40		
	Inchicore to Heuston Station	Up	1 1/4	1	40	65		
	Inchicore to Heuston Station	Up	1	1/2	25	40		
	Heuston Station Yard	Up	1/2	1/4	15	25		
	Heuston Station Yard	Up	1/4	0	10	15		
Cork (Kent Station) to Dublin (Heuston Station) UP MAIN LINE	Maximum line speed limit subject to lower limits set out below	Up	165 3/4	0	100	160	201 Class may operate normally at the speeds shown in adjacent column	
	See bottom of this table for permitted speeds for trains operating in the down direction between Heuston Station and Inchicore							
	Through Cork Station and yard	Up	165 3/4	165 1/8	15	25		
	Cork to Mallow (including tunnel)	Up	165 1/8	164 1/4	50	80		
	Cork to Mallow (including tunnel)	Up	164 1/4	162	70	110		
	Cork to Mallow	Up	162	153 3/4	90	145		
	Cork to Mallow	Up	153 3/4	151 1/2	70	110		
	Cork to Mallow	Up	151 1/2	150 3/4	80	130		
	Cork to Mallow	Up	150 3/4	149 1/8	90	145		
	Mallow Station to and through Killarney Junction (down trains to Tralee Line running over Up Line)	Down	144 3/4	Killarney Junction	40	65		
	Through Mallow Station & to Charleville	Up	145 1/4	144	80	130		
	Mallow Station, entering and leaving Up Yard	Up	-	-	10	15		
	Mallow to Charleville	Up	144	140 1/4	90	145		
	Mallow to Charleville	Up	140 1/4	138 1/2	80	130		
	Mallow to Charleville	Up	134 1/4	133 1/4	85	130		
	Mallow to Charleville	Up	133 1/4	130 1/4	90	145		
	Mallow to and through Charleville	Up	130 1/4	129	80	130		
	Charleville to Limerick Junction	Up	110	108 1/4	80	145		

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Cork (Kent Station) to Dublin (Heuston) Contd.	Charleville to Limerick Jctn. Limerick Junction; entering & leaving platforms Down Trains entering and leaving Limerick Junction Platform 1 Down Trains travelling between Crossover 901 and Platform No 1 Down Trains travelling between Crossover 901 and Platform No 1	Up	108 1/4	108 1/4	80	95		
		Up	-	-	15	25		
		Down	-	-	15	25		
		Down	108 3/4	108 1/2	25	40		
		Down	108 1/2	108	40	65		
UP MAIN LINE	Through Limerick Junction Loop to Main Line	Up & Down	-	-	20	30		
	Limerick Junction to Thurles	Up	108 1/4	104	100	160		
	Limerick Junction to Thurles	Up	104	89 3/4	90	145		
	Limerick Junction to Thurles	Up	89 3/4	87 3/4	80	130		
	Limerick Junction to Thurles	Up	87 3/4	87 1/4	70	110		
	Thurles to Lisduff	Up	87 1/4	78 3/4	90	145		
	Thurles Through Lisduff	Up	78 3/4	71 1/4	100	160		
	Lisduff to Ballybrophy	Up	71 1/4	69	90	145		
	Through Ballybrophy to Portlaoise	Up	69	52 1/2	100	160		
	Ballybrophy to Portlaoise	Up	52 1/2	50 3/4	90	145		
	Through Portlaoise to Kildare	Up	41 3/4	41 1/8	80	130		
	Kildare to Newbridge	Up	29	28 1/2	90	145		
	Kildare to Newbridge	Up	28 1/2	27 3/4	80	130		
	Kildare to Newbridge	Up	27 3/4	27	90	145		
Up Slow	Hazelhatch to Cherry Orchard	Up Slow	10 1/2	3	70	110		
			The UP SLOW Line is the RIGHT HAND of the two lines running in the Up direction through the four track section between Hazelhatch and Cherry Orchard					
Up Fast	Hazelhatch to Cherry Orchard	Up Fast	10 1/2	3	100	160		
			The UP FAST Line is the LEFT HAND of the two lines running in the Up direction through the four track section between Hazelhatch and Cherry Orchard					
Up Mainline	Cherry Orchard to Inchicore Cherry Orchard to Inchicore - FREIGHT ONLY Inchicore to Heuston Station Crossover No.706 Up Main to Down Main Crossover No. 709 Up Main to Down Main Inchicore to Heuston Inchicore to Heuston Heuston Station Yard Approaching Heuston Station	Up	3	1 3/4	90	145		
		Up	2 3/4	2 1/2	5	10		
		Up	1 3/4	1 1/4	60	95		
		Up	near	1 5/8	40	65		
		Up	near	7/8	25	40		
		Up	1 1/4	1	40	65		
		Up	1	1/2	25	40		
		Up	1/2	1/4	15	25		
		Up	1/4	0	10	15		
Down Trains operating over the Up Line between Heuston & Inchicore	Permitted speeds for down trains operating over the Up Cork Line between Heuston Station and Inchicore Leaving Heuston Station Leaving Heuston Station	Down	0	1/2	20	30		
		Down	1/2	1	25	40		
		Down	near	1 5/8	40	65		
		Down	1	1 3/4	40	65		
		Down	1 3/4	2 3/8	60	95		
			near	2 3/8	60	95		
Cork (Kent Station) to Cobh	Maximum Line Speed Limits subject to lower limits set out below Glounthaune Junction Approaching Fota Station Approaching Fota Station XC249 at Fota Station Approaching Cobh Station	Down	185 3/4	176 1/4	50	80		
		Down	171 1/4	171 1/4	35	55		
		Down	171, 1480 yds	172, 0160 yds	40	65		
		Down	172, 0160 yds	172,0800 yds	25	40		
		Down	172,0800 yds	172,0840 yds	10	15		
		Down	172,0840 yds	176,0990 yds	50	80		
		Down	176,0990 yds	176,1430 yds	15	25		
		Up	176 3/4	166	50	80		
		Up	173	172, 1280 yds	40	65		
		Up	172, 1280 yds	172,0840 yds	25	40		
Cobh to Cork (Kent Station)	Maximum Line Speed Limits subject to lower limits set out below Approaching Fota Station Approaching Fota Station XC249 at Fota Station Approaching Cork (Kent Station)	Up	172,0840 yds	172,0800 yds	10	15		
		Up	166	165 3/4	30	50		

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Glounthaune to Midleton	Maximum line speed limit subject to lower limits set out below On the approach to Platform 2 Midleton On the approach to Platform 1 Midleton	Down	0	6 1/2	60	95	Light Engines & Loco hauled trains may operate up to a maximum line speed of 50 mph / 80kph, subject to lower limits shown in adjacent column	
		Down	0,175 yds	0,800 yds	40	65		
		Down	0,800 yds	6,260 yds	60	95		
		Down	6,260 yds	6,690 yds	20	30		
Midleton to Glounthaune	Maximum line speed limit subject to lower limits set out below	Up	6 1/2		60	95		
		Up	2 3/8	2 1/4	30	50		
		Up	3/8	0.70 yds	40	65		
Cherryville Junction to Kilkenny	Maximum line speed limit subject to lower limits set out below	Down	32 1/2	78 5/8	100	160	Light Engines & Loco hauled trains may operate up to a maximum line speed of 80 mph / 130kph, subject to lower limits shown in adjacent column	
		Down	30 5/8	28 1/4				
Down trains to Kilkenny only	Cherryville Junction	Down	Through Junction		30	50		
	Cherryville Junction to Athy	Down	32 1/2	34	55	90		
	Cherryville Junction to Athy	Down	35 1/4	36	80	130		
	Cherryville Junction to Athy	Down	38 5/8	40 5/8	80	130		
	Through Athy Main	Down	43 1/8	45 1/8	80	130		
	Through Athy Loop	Down	44 5/8	45 1/8	20	30		
	Athy to Carlow	Down	46 5/8	46 7/8	80	130		
	Athy to Carlow	Down	49	49 1/4	80	130		
	Athy to Carlow	Down	50 1/2	50 3/4	80	130		
	Athy to Carlow - FREIGHT ONLY	Down	50 7/8	51	20	30		
	Athy to Carlow	Down	51 3/8	54	80	130		
	Athy to Carlow	Down	54	54 3/4	70	110		
	Athy to Carlow	Down	54 3/4	55 1/4	80	130		
	Athy to Carlow	Down	55 1/4	55 1/2	55	90		
	Through Carlow Station (Up & Down Platforms)	Down	55 1/2	56 1/8	30	50		
	Carlow to Muine Bheag	Down	56 1/8	65 1/4	80	130		
	Carlow to Muine Bheag	Down	65 1/4	65 3/4	60	95		
	Through Muine Bheag Station on Down main	Down	65 3/4	66 3/8	40	65		
	Through Muine Bheag Station on Up Loop	Down	65 3/4	66 3/8	30	50		
	Muine Bheag to Lavistown North Jctn.	Down	66 3/8	77 7/8	80	130		
Through Lavistown North	Down	77 7/8	78 3/8	70	110			
Lavistown North to Lavistown West	Down	78 3/8	78 5/8	55	90			
Lavistown West to Kilkenny	Down	30 1/2	29 1/2	80	130			
Lavistown West to Kilkenny	Down	29 1/2	29 1/4	70	110			
Lavistown West to Kilkenny	Down	29 1/4	28 7/8	55	90			
Lavistown West to Kilkenny	Down	28 7/8	28 5/8	30	50			
Lavistown West to Kilkenny	Down	28 5/8	28 1/4	15	25			
Asbestos Cement Siding Athy	Maximum line speed limit	Up & Down	-	-	5	10	201 class not permitted Beyond Carlow Road level crossing XWWW1	
Lavistown Loop (Lavistown Nth. Jctn. to South Jctn.)	Maximum line speed limit	Up & Down	0	5/8	25	40	Light Engines & Loco hauled trains may operate up to a maximum line speed of 25 mph / 40kph, subject to lower limits shown in adjacent column	
Kilkenny to Cherryville Junction	Maximum line speed limit subject to lower limits set out below	Up	28 1/4	30 5/8	100	160	Light Engines & Loco hauled trains may operate up to a maximum line speed of 80 mph / 130 kph, subject to lower limits shown in adjacent column	
		Up	78 5/8	32 1/2				
Up Trains from Kilkenny	Kilkenny to Lavistown West	Up	28 1/4	28 5/8	20	30		
	Kilkenny to Lavistown West	Up	28 5/8	29 1/4	80	130		
	Kilkenny to Lavistown West	Up	29 1/4	29 1/2	70	110		
	Kilkenny to Lavistown West	Up	29 1/2	30 1/2	80	130		
	Lavistown West to Lavistown North	Up	78 5/8	78	55	90		
	Lavistown North to Muine Bheag	Up	78	66 5/8	80	130		
	Lavistown North to Muine Bheag	Up	66 5/8	66 3/8	60	95		
	Through Muine Bheag station Up Loop	Up	66 3/8	65 3/4	30	50		
	Through Muine Bheag Station on down main	Up	66 3/8	65 3/4	40	65		
	Muine Bheag to Carlow	Up	65 3/4	56 5/8	80	130		
	Muine Bheag to Carlow	Up	58 5/8	58 1/8	55	90		
	Through Carlow Station (Up & Down Platforms)	Up	56 1/8	55 1/2	30	50		
	Carlow to Athy	Up	55 1/2	54 3/4	80	130		
	Carlow to Athy	Up	54 3/4	54	70	110		
	Carlow to Athy	Up	54	51 1/2	80	130		
	Carlow to Athy - FREIGHT ONLY	Up	51	50 7/8	20	30		
	Carlow to Athy	Up	50 3/4	50 1/2	80	130		
	Carlow to Athy	Up	49 1/4	49	80	130		

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Kilkenny to Cherryville Junction Contd. Up Trains from Kilkenny	Through Athy Main	Up	46 7/8	44 5/8	80	130		
	Through Athy Loop	Up	45 1/8	44 5/8	20	30		
	Athy to Cherryville Junction	Up	43 3/8	43 1/8	80	130		
	Athy to Cherryville Junction	Up	40 5/8	38 3/4	80	130		
	Athy to Cherryville Junction	Up	36	35 1/2	80	130		
	Athy to Cherryville Junction	Up	34 1/4	34	80	130		
	Athy to Cherryville Junction	Up	34	32 3/4	65	90		
	Athy to Cherryville Junction Cherryville Junction	Up	32 3/4 Through Junction	32 1/2	30	40	65	
Kilkenny to Waterford West Cabin Down Trains from Kilkenny	Maximum line speed limit subject to lower limits set out below	Down	28 1/4	58 1/2	80	130	Light Engines & Loco hauled trains	
	Kilkenny to Lavistown West	Down	28 1/4	28 5/8	20	30	may operate up to a maximum line speed of 80 mph / 130kph, subject to lower limits shown in adjacent column	
	Kilkenny to Lavistown West	Down	29 1/4	29 1/2	70	110		
	Lavistown West to Lavistown South Junction	Down	30 1/2	30 3/4	65	90		
	Lavistown South Jctn. to Ballyhale	Down	38 1/2	38 3/4	60	95		
	Lavistown South Jctn. to Ballyhale	Down	38 3/4	39 3/8	60	80		
	Lavistown South Jctn. to Ballyhale	Down	39 3/8	40 3/4	70	110		
	Lavistown South Jctn. to Ballyhale	Down	40 3/4	41 1/2	65	105		
	Ballyhale to Waterford	Down	47 3/4	49	70	110		
	Ballyhale to Waterford	Down	51	53 3/4	70	110		
Ballyhale to Waterford	Down	58	58 1/4	65	90			
Ballyhale to Waterford	Down	58 1/4	58 1/2	30	50			
Waterford West Cabin to Kilkenny Up Trains to Kilkenny	Maximum line speed limit subject to lower limits set out below	Up	58 1/2	28 1/4	80	130	Light Engines & Loco hauled trains	
	Waterford to Ballyhale	Up	58 1/2	58 1/4	30	50	may operate up to a maximum line speed of 80 mph / 130kph, subject to lower limits shown in adjacent column	
	Waterford to Ballyhale	Up	53 3/4	51	70	110		
	Waterford to Ballyhale	Up	49	48 3/4	70	110		
	Waterford to Ballyhale	Up	48 3/8	48 1/8	60	80		
	Waterford to Ballyhale	Up	48 1/8	47 3/4	70	110		
	Ballyhale to Lavistown South Jctn.	Up	41 1/2	40 3/4	65	105		
	Ballyhale to Lavistown South Jctn.	Up	40 3/4	39 3/8	70	110		
	Ballyhale to Lavistown South Jctn.	Up	39 3/8	38 3/4	60	80		
	Ballyhale to Lavistown South Jctn.	Up	38 3/4	38 1/2	60	95		
	Ballyhale to Lavistown South Jctn.	Up	32	31 7/8	60	80		
	Lavistown South Jctn. To Lavistown West	Up	30 3/4	30 1/2	65	90		
	Lavistown West to Kilkenny	Up	29 1/2	29 1/4	70	110		
	Lavistown West to Kilkenny	Up	29 1/4	28 7/8	65	90		
	Lavistown West to Kilkenny	Up	28 7/8	28 5/8	30	50		
Lavistown West to Kilkenny	Up	28 5/8	28 1/4	15	25			
Portarlinton to Athlone	Maximum Line Speed Limit Subject to lower limits set out below	Down	41 3/4	80 3/4 Athlone East Jn (Moate Line)	100	160	80	130
	Through Portarlinton Junction	Down	-	-	20	30		
	Track Curvature Portarlinton to Geashill	Down	41 3/4	42	30	50		
	Track Curvature Portarlinton to Geashill	Down	42	42 3/4	80	130		
	Crossing XA008 between Portarlinton and Geashill	Down	43 3/4	44 1/8	80	130		
	Crossing XA013 between Portarlinton and Geashill	Down	45 5/8	46	80	130		
	Track Curvature Portarlinton to Geashill	Down	46	47 1/4	90	145		
	Crossing XA018 between Portarlinton and Geashill	Down	47 1/4	47 5/8	80	130		
	Track Curvature Portarlinton to Geashill	Down	48 1/2	50 1/2	90	145		
	Track Curvature Geashill to Tullamore	Down	52	53 1/8	90	145		
	Track Curvature Geashill to Tullamore	Down	54 3/4	54 7/8	90	145		
	Crossings XA039/40/43/45 Geashill to Tullamore	Down	54 7/8	55 5/8	80	130		
	Crossings XA052/53 Geashill to Tullamore	Down	56 3/4	57 1/4	80	130		
	Cascade PSR Geashill to Tullamore	Down	57 1/4	57 1/2	60	95		
	Geashill to Tullamore and through Tullamore Station	Down	57 1/2	58 1/8	40	65		
	Bridge UBA37 Tullamore to Clara	Down	58 1/8	58 3/8	70	110		
	Track Curvature Tullamore to Clara	Down	58 3/8	59	90	145		
	Track Vertical Alignment at OBA38	Down	59 1/8	59 1/4	80	130		
	Track Curvature and crossing XA061 Tullamore to Clara	Down	60 1/4	62	80	130		
	Cascade PSR Tullamore to Clara	Down	64 1/4	64 1/2	70	110		
	Track Curvature through Clara	Down	64 1/2	65	40	65		
	Track Curvature Clara to Clonydonnin	Down	65 3/4	66 1/8	90	145		
	Track Vertical Alignment at OBA54	Down	66 1/8	66 1/4	80	130		
Track Curvature Clara to Clonydonnin	Down	67 7/8	68 1/8	80	130			
Track Curvature Clara to Clonydonnin	Down	68 1/8	70 5/8	90	145			
Clara to Clonydonnin Bog Strip	Down	70 5/8	71 1/2	70	110			
Track Curvature Clara to Clonydonnin	Down	71 1/2	73	80	130			

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Portarlinton to Athlone (Contd.)	Track Curvature Clonydonnin to Athlone	Down	73	74 1/4	90	145		
	Track Curvature Clonydonnin to Athlone	Down	77 1/8	78 5/8	90	145		
	Crossing XA120 Clonydonnin to Athlone	Down	78 5/8	80	90	130		
	Cascade PSR and Curvature Athlone Station	Down	80	80 5/8	50	80		
Portarlinton to Athlone (Contd.)	Track curvature Athlone Station	Down	80 5/8	80 3/4 East Jn (Moate Line)	20	30		
Athlone to Portarlinton	Maximum Line Speed Limit Subject to lower limits set out below	Up	80 3/4 Athlone East Jn (Moate Line)	41 3/4	100	160	80	130
	Track curvature Athlone Station	Up	80 3/4 East Jn (Moate Line)	80 5/8	20	30		
	Track Curvature Athlone Station	Up	80 5/8	80	50	80		
	Crossing XA120 Athlone to Clonydonnin	Up	80	78 5/8	90	130		
	Track Curvature Athlone to Clonydonnin	Up	78 5/8	77 1/8	90	145		
	Track Curvature Athlone to Clonydonnin	Up	74 1/4	73	90	145		
	Track Curvature Clonydonnin to Clara	Up	73	71 1/2	90	130		
	Clonydonnin to Clara Bog Strip	Up	71 1/2	70 5/8	70	110		
	Track Curvature Clonydonnin to Clara	Up	70 5/8	68 1/8	90	145		
	Track Curvature Clonydonnin to Clara	Up	68 1/8	67 7/8	80	130		
	Track Vertical Alignment at OBA54	Up	66 1/4	66 1/8	80	130		
	Track Curvature Clonydonnin to Clara	Up	66 1/8	65 3/4	90	145		
	Cascade PSR Clonydonnin to Clara	Up	65 1/4	65	70	110		
	Track Curvature through Clara	Up	65	64 1/2	40	65		
	Track Curvature Clara to Tullamore	Up	64 1/2	63 1/8	90	130		
	Track Curvature and crossing XA081 Clara to Tullamore	Up	62 3/8	60 1/4	80	130		
	Track Curvature Clara to Tullamore	Up	59	58 3/8	90	145		
	Bridge UBA37 Clara to Tullamore	Up	58 3/8	58 1/8	70	110		
	Through Tullamore Station and crossing XA053 towards Geashill	Up	58 1/8	57 3/8	40	65		
	Crossings XA045/43/40/39 Tullamore to Geashill	Up	56	55 1/4	80	130		
	Track Curvature Tullamore to Geashill	Up	55 1/4	54 3/4	90	145		
	Track Curvature Tullamore to Geashill	Up	53 1/8	52	90	145		
	Track Curvature Geashill to Portarlinton	Up	50 1/2	48 1/2	90	145		
	Crossing XA018 between Geashill and Portarlinton	Up	48	47 5/8	80	130		
	Track Curvature Geashill to Portarlinton	Up	47 5/8	46 3/8	90	145		
	Crossing XA013 between Geashill and Portarlinton	Up	46 3/8	46	80	130		
	Crossing XA008 between Geashill and Portarlinton	Up	44 1/2	44 1/8	80	130		
	Track Curvature Geashill to Portarlinton	Up	42 3/4	42 1/4	80	130		
	Cascade PSR Geashill to Portarlinton	Up	42 1/4	42	50	80		
	Track Curvature Geashill to Portarlinton	Up	42	41 3/4	30	50		
	Through Portarlinton Junction	Up	-	-	20	30		
	Through Portarlinton Junction	Up	-	-	20	30		
	Portlaoise to Conniberry Yards	Maximum line speed limit	Up & Down	0	3/4	20	30	201 class may operate normally to Conniberry Yards
Conniberry to Coolnamona (3/4 mls. to 2 3/4 mls.) not open for traffic								

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Ballybrophy to Killonan Junction (Nenagh Branch)	Maximum line speed limit, subject to lower limits set out below	Down	0	52 1/2	50	80	201 class only permitted in emergency at maximum speed of 25 mph/40 kph.	
	Leaving Ballybrophy Station	Down	0	1/8	20	30	• Denotes restriction that applies to Light Engine & Loco Hauled trains only. Light Engines and Loco hauled trains are restricted to 25 mph/40 kph in Up & Down directions between Killonan Junction and the 46 1/4 MP	
	Ballybrophy to Roscrea	Down	1/8	7/8	30	50		
	Ballybrophy to Roscrea	Down	2 3/8	3 1/8	30	50		
	XN012 Quakers Road	• Down	4 5/8	6	35	55		
	Ballybrophy to Roscrea	Down	6	7 1/8	30	50		
	XN022 Ashberry	• Down	8 5/8	9 1/2	35	55		
	Through Roscrea Station	Down	9 1/2	10 1/4	30	50		
	Roscrea to Nenagh	Down	11 1/8	11 3/8	30	50		
	Roscrea to Nenagh	Down	12	12 1/4	30	50		
	Roscrea to Nenagh	Down	12 1/4	12 3/4	40	65		
	Roscrea to Nenagh	Down	14 1/4	16	40	65		
	Roscrea to Nenagh	Down	16	16 5/8	30	50		
	Roscrea to Nenagh	Down	16 5/8	17 1/8	40	65		
	Roscrea to Nenagh	Down	17 1/2	18 1/4	30	50		
	Roscrea to Nenagh	Down	22 7/8	23 3/8	30	50		
	Roscrea to Nenagh	Down	24 7/8	25 1/8	30	50		
	Roscrea to Nenagh	Down	26 3/4	27 1/8	30	50		
	Roscrea to Nenagh	Down	27 7/8	28 1/4	30	50		
	Roscrea to Nenagh	Down	28 1/4	29	40	65		
	Through Nenagh	Down	29	29 1/2	30	50		
	Through Nenagh	Down	29 1/2	31 3/8	40	65		
	Nenagh to Birdhill	Down	31 3/8	32 1/4	30	50		
	Nenagh to Birdhill	Down	32 1/4	34m080yds	40	65		
Nenagh to Birdhill (XN093)	Down	34m060yds	34m1130yds	20	30			
	Down	34m1130yds	35	40	65			
Nenagh to Birdhill	Down	36	36 1/2	40	65			
Nenagh to Birdhill	Down	38 1/4	40 3/4	25	40			
Nenagh to Birdhill	Down	41m1500yds	42 1/8	40	65			
Birdhill to Killonan	Down	42 3/4	43 1/4	40	65			
Birdhill to Killonan	Down	48 3/4	51 1/2	30	50			
Birdhill to Killonan	Down	51 1/2	52 1/2	25	40			
Killonan Junction to Ballybrophy (Nenagh Branch)	Maximum line speed limit, subject to lower limits set out below	Up	52 1/2	0	50	80	201 class only permitted in emergency at maximum speed of 25 mph/40 kph.	
	Killonan to Birdhill	Up	52 1/2	51 1/2	25	40	Light engines and Loco hauled trains are restricted to 25 mph/40kph between Killonan Junction and the 46 1/4 MP • Denotes restriction that applies to Light Engine & Loco Hauled trains only.	
	Killonan to Birdhill	Up	51 1/2	48 3/4	30	50		
	Killonan to Birdhill	Up	43 1/4	42 3/4	40	65		
	Birdhill to Nenagh	Up	40 3/4	38 1/4	25	40		
	Birdhill to Nenagh	Up	37 1/4	36 1/2	25	40		
	Birdhill to Nenagh	Up	36 1/2	36	40	65		
	Birdhill to Nenagh	Up	35	34m1130yds	40	65		
	Birdhill to Nenagh (XN093)	Up	34m1130yds	34m080yds	20	30		
		Up	34m080yds	32 1/4	40	65		
	Birdhill to Nenagh	Up	32 1/4	31 3/8	30	50		
	Through Nenagh	Up	31 3/8	29 1/2	40	65		
	Through Nenagh	Up	29 1/2	29	30	50		
	Nenagh to Roscrea	Up	29	28 1/4	40	65		
	Nenagh to Roscrea	Up	28 1/4	27 7/8	30	50		
	Nenagh to Roscrea	Up	27 1/8	26 3/4	30	50		
	Nenagh to Roscrea	Up	25 1/8	24 7/8	30	50		
	Nenagh to Roscrea	Up	23 3/8	22 7/8	30	50		
	Nenagh to Roscrea	Up	18 1/4	17 1/2	30	50		
	Nenagh to Roscrea	Up	17 1/8	16 5/8	40	65		
	Nenagh to Roscrea	Up	16 5/8	16	30	50		
	Nenagh to Roscrea	Up	16	14 1/4	40	65		
	Nenagh to Roscrea	Up	12 3/4	12 1/4	40	65		
	Nenagh to Roscrea	Up	12 1/4	12	30	50		
Nenagh to Roscrea	Up	11 3/8	9 1/2	30	50			
XN022 Ashberry	• Up	9 1/2	7 1/8	35	55			
Roscrea to Ballybrophy	• Up	7 1/8	6	30	50			
XN012 Quakers Road	• Up	5 3/8	3 1/8	35	55			
Roscrea to Ballybrophy	Up	3 1/8	2 3/8	30	50			
Approaching Ballybrophy Station	Up	7/8	1/4	30	50			
Approaching Ballybrophy Station	Up	1/4	0	15	25			

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Mallow to Tralee (Casement Station)	Maximum line speed limit subject to lower limits set out below:	Down	0	81 1/2	70	110	Light Engines & Loco hauled trains may operate up to a maximum line speed of 70 mph / 110kph, subject to lower limits shown in adjacent column	
	Through Killarney Junction	Down	0	1/2	40	65		
	Mallow to Banteer	Down	1/2	3 1/4	60	95		
	Through Banteer	Down	10 1/4	10 1/2	60	95		
	Through Banteer Station- main line	Down	10 1/2	11	40	65		
	Through Banteer Station-through loop	Down	10 1/2	11	30	50		
	Banteer to Millstreet	Down	18 1/4	18 1/2	60	95		
	Through Millstreet Station-through loop	Down	18 1/2	19 1/4	30	50		
	Through Millstreet Station-main line (XT063)	Down	18 1/2	19 3/4	40	65		
	Millstreet to Rathmore	Down	25	25 1/4	60	95		
	Through Rathmore Station-main line	Down	25 1/4	25 1/2	40	65		
	Through Rathmore Station-through loop	Down	25 1/4	25 1/2	30	50		
	Rathmore to Killarney	Down	29	37 3/4	60	95		
	Rathmore to Killarney	Down	37 3/4	39 3/8	50	80		
	Through Killarney Yard; main line	Down	39 3/8	39 3/4	15	25		
	Through Killarney yard; to and from station	Down	-	-	15	25		
	Killarney to Farranfore	Down	39 3/4	40 1/4	40	65		
	Killarney to Farranfore	Down	40 1/4	50 1/4	60	95		
	Through Farranfore Station; main line	Down	50 1/4	50 3/4	30	50		
	Through Farranfore Station; loop	Down	50 1/4	50 3/4	30	50		
Farranfore to Tralee	Down	50 3/4	57 7/16	60	95			
Farranfore to Tralee (XT157)	Down	57 7/16	57 13/16	40	65			
Farranfore to Tralee	Down	57 13/16	61 1/8	60	95			
Approaching Tralee Station	Down	61 1/8	61 1/2	15	25			
Tralee (Casement Station) to Mallow	Maximum line speed limit subject to lower limits set out below:	Up	61 1/2	0	70	110	Light Engines & Loco hauled trains may operate up to a maximum line speed of 70 mph / 110kph, subject to lower limits shown in adjacent column	
	Leaving Tralee Station	Up	61 1/2	61 1/4	15	25		
	Tralee to Farranfore	Up	60 3/4	57 13/16	60	95		
	Tralee to Farranfore (XT157)	Up	57 13/16	57 7/16	40	65		
	Tralee to Farranfore	Up	57 7/16	51	60	95		
	Tralee to Farranfore	Up	51	50 3/4	40	65		
	Through Farranfore Station; main line	Up	50 3/4	50 1/4	30	50		
	Through Farranfore Station; loop	Up	50 3/4	50 1/4	30	50		
	Farranfore to Killarney	Up	50 1/4	40 1/4	60	95		
	Farranfore to Killarney	Up	40 1/4	40	40	65		
	Farranfore to Killarney	Up	40	39 3/4	25	40		
	Through Killarney yard; to and from station	Up	-	-	15	25		
	Through Killarney yard; main line	Up	39 3/4	39 3/8	15	25		
	Killarney to Rathmore (XT105)	Up	39 3/8	36 3/4	50	80		
	Killarney to Rathmore (XT103)	Up	36 3/4	38 9/16	25	40		
	Killarney to Rathmore	Up	36 9/16	29	60	95		
	Killarney to Rathmore	Up	25 3/4	25 1/2	60	95		
	Through Rathmore Station; main line	Up	25 1/2	25 1/4	40	65		
	Through Rathmore Station; loop	Up	25 1/2	25 1/4	30	50		
	Rathmore to Millstreet	Up	19 3/4	19 1/4	60	95		
	Through Millstreet Station; main line	Up	19 1/4	18 1/2	40	65		
	Through Millstreet Station; through loop	Up	19 1/4	18 1/2	30	50		
	Maximum line speed limit subject to lower limits set out below:	Up	61 1/2	0	70	110		
	Millstreet (XT054) to Banteer	Up	17m 0330 yds	16m 1650 yds	50	80		
	Millstreet to Banteer	Up	11 1/4	11	60	90		
	Through Banteer Station; main line	Up	11	10 1/2	40	65		
	Through Banteer Station; through loop	Up	11	10 1/2	30	50		
	Banteer to Mallow	Up	3 1/4	1/2	60	95		
	Through Killarney Junction	Up	1/2	0	40	65		
	Limerick (Colbert Station) to Killonan Junction	Maximum line speed limit subject to lower limits set out below:	Down	0	4 1/4	60		95
Leaving Limerick Station (Arrival Road)		Down	0	5/16	20	30		
Leaving Limerick Station		Down	0	Near 5/8	20	30		
Leaving Limerick Station		Down	5/16	7/8	30	50		
Through Killonan Junction		Down	At	4 1/4	40	65		

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Killonan Junction to Limerick (Colbert Station)	Maximum line speed limit subject to lower limits set out below	Up	4 1/4	0	60	95	Light Engines & Loco hauled trains may operate up to a maximum line speed of 60 mph / 95kph, subject to lower limits shown in adjacent column	
	Approaching Limerick Station	Up	4 1/4	1/2	60	95		
	Approaching Limerick Station	Up	1/2	1/4	30	50		
	Approaching Limerick Station	Up	1/4	0	15	25		
Killonan Junction to Limerick Junction	Maximum line speed limit subject to lower limits set out below	Down	4 1/4	21 1/2	70	110	Light Engines & Loco hauled trains may operate up to a maximum line speed of 70 mph / 110kph, subject to lower limits shown in adjacent column	
	At Oola overbridge	Down	18 3/4	18mils 1800yds	40	65		
	XL064	Down	19m 1480yds	20m 140yds	60	95		
	Killonan Junction to Limerick Junction	Down	21	21 1/4	50	80		
	Through Limerick Junction Loop to main line	Down	-	-	20	30		
	Killonan Junction to Waterford	Down	21 1/4	21 3/4 + 100y	30	50		
	Limerick Junction Station entering all platforms	Down	-	-	15	25		
Limerick Junction to Killonan Junction	Maximum line speed limit subject to lower limits set out below	Up	21 1/2	4 1/2	70	110	Light Engines & Loco hauled trains may operate up to a maximum line speed of 70 mph / 110kph, subject to lower limits shown in adjacent column	
	Waterford to Killonan Junction	Up	21 3/4 + 100 y	21 1/4	30	50		
	Leaving Limerick Junction Station	Up	-	21 5/8	15	25		
	Limerick Junction to Killonan Junction XL064	Up	21 5/8 20m 140y	21m 1/4 19m 140y	30 60	50 95		
Limerick Junction to Waterford West Cabin (Plunkett Station)	Maximum line speed limit subject to lower limits set out below	Down	21 1/2	76 1/2	50	80	Light Engines & Loco hauled trains may operate up to a maximum line speed of 50 mph / 80kph, subject to lower limits shown in adjacent column • denotes restriction that applies to Light Engine & Loco Hauled trains only. 201 class only permitted in emergency at maximum speed of 25mph/40kph	
	Dromkeen to Limerick Junction	Down	21 1/4	21,1420	30	50		
	Limerick Junction to Tipperary to Carrick-on-Suir	Down	24 1/2	28	40	65		
	Tipperary to Carrick-on-Suir	Down	27 7/8	28 1/8	25	40		
	XL 088 Bansha	•	29	29,0990	35	55		
	XL101 Cappagh	•	32%	33%	35	55		
	Tipperary to Carrick-on-Suir	CH	33%	34%	40	65		
	Tipperary to Carrick-on-Suir	CH	36	39 1/2	40	65		
	Tipperary to Carrick-on-Suir	CH	42 1/2	44 1/4	40	65		
	XL119 Patrick's Well	•	46%	48%	30	50		
	Tipperary to Carrick-on-Suir	•	47%	50%	40	65		
	XL122 Haywood	•	48	48%	30	50		
	XL133 Kilsheelan	•	54%	55 3/8	45	70		
	Tipperary to Carrick-on-Suir	•	56 1/4	58 1/2	40	65		
	Tipperary to Carrick-on-Suir	•	60 3/4	61,0520yds	40	65		
	Tipperary to Carrick-on-Suir	•	61,0620yds	61,0680yds	25	40		
	Tipperary to Carrick-on-Suir	•	61,0680yds	62,1210	40	65		
	Tipperary to Carrick-on-Suir	•	62,1210yds	62,1650yds	25	40		
	Tipperary to Carrick-on-Suir	•	62,1650yds	63,0340yds	10	15		
	Carrick-on-Suir-Waterford West	•	63,0390yds	66%	40	65		
XL176 Fiddown	•	66%	67%	40	65			
XL 179 Emil	•	68%	69%	30	50			
Carrick-on-Suir to Waterford West	•	71 1/2	72	35	55			
Carrick-on-Suir to Waterford West	•	74 7/8	75 1/8	40	65			
Carrick-on-Suir to Waterford West	•	75 1/8	75 3/8	25	40			
Dunkitt Viaduct	•	75 3/8	75 5/8	15	25			
Carrick-on-Suir to Waterford West	•	75 5/8	76 1/2	40	65			
Waterford West Cabin (Plunkett Station) to Limerick Junction	Maximum line speed limit subject to lower limits set out below	Up	76 1/2	21 1/2	50	80	Light Engines & Loco hauled trains may operate up to a maximum line speed of 50 mph / 80kph, subject to lower limits shown in adjacent column • denotes restriction that applies to Light Engine & Loco Hauled trains only. 201 class only permitted in emergency at maximum speed of 25mph/40kph	
	Waterford West to Carrick-on-Suir	Up	76 1/2	75 5/8	40	65		
	Dunkitt Viaduct	Up	75 5/8	75 3/8	15	25		
	Waterford West to Carrick-on-Suir	Up	72 1/4	71 3/4	35	55		
	Waterford West to Carrick-on-Suir	Up	70 3/4	70	45	70		
	Carrick-on-Suir to Tipperary XL179 Emil	•	69 1/2	69	35	55		
	Carrick-on-Suir to Tipperary XL176 Fiddown	•	67 3/4	67 1/4	35	55		
	Carrick-on-Suir to Tipperary	•	66 3/4	63m 830y	40	65		
	Carrick-on-Suir to Tipperary	•	63m 830y	63m 390y	25	40		
	Carrick-on-Suir to Tipperary	•	63m 390y	62m 1650y	10	15		
	Carrick-on-Suir to Tipperary	•	62m 1650y	61m 960y	40	65		
	Carrick-on-Suir to Tipperary	•	61m 960y	61m 520y	25	40		
	Carrick-on-Suir to Tipperary	•	61m 520y	60 3/4	40	65		
	Carrick-on-Suir to Tipperary	•	58 1/2	58 1/2	40	65		
	Carrick-on-Suir to Tipperary XL133 Kilsheelan	•	55m 1540y	55 1/4	40	65		
	Carrick-on-Suir to Tipperary	•	50 1/4	47 3/4	40	65		
Carrick-on-Suir to Tipperary XL119 Patrickswell	•	47 1/4	48 5/8	40	65			

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Waterford West Cabin (Plunkett Station) to Limerick Junction (Contd.)	Carrick-on-Suir to Tipperary	CH Up	44 1/4	42 1/2	40	65		
	Carrick-on-Suir to Tipperary	CH Up	39 1/2	36	40	65		
	Carrick-on-Suir to Tipperary	CH Up	34 1/4	33 1/2	40	65		
	Carrick-on-Suir to Tipperary XL101 Cappagh	• Up	33 1/2	32m	35	55		
	Carrick-on-Suir to Tipperary XL088 Bansha	• Up	30	29 1/2	40	65		
	Carrick-on-Suir to Tipperary	Up	28 1/8	27 7/8	25	40		
	Carrick-on-Suir to Tipperary	Up	26	24 1/2	40	65		
	Limerick Junction to Dromkeen	Up	21,1420	21 1/4	30	50		
Waterford West Cabin (Plunkett Station) to Rosslare Strand	Maximum line speed limit subject to lower limits set out below	Down	75 1/8	110 3/4	25	40	Light Engines & Loco hauled trains may operate up to a maximum line speed of 25 mph / 40kph, subject to lower limits shown in adjacent column	
	Waterford West to Platform 5 (Bay)	Down	75 1/8	75 1/2	20	30		
	Approaching Platform 5 (Bay) Waterford	Down	75 1/2	75 5/8	10	15		
	Waterford West through Waterford Yard sidings & through Station	Down	75 1/8	75 1/2	5	10		
	Through Platforms 3 & 4 to Abbey Junction	Down	76	76 3/8	5	10		
Rosslare Strand & Waterford (Plunkett Stn) to Waterford West Cabin	Abbey Junction to Wellingtonbridge (Over Barrow Underbridge)	Down	81 5/8	82	5	10	201 class only permitted in emergency at maximum speed of 25mph/40kph	
	Maximum line speed limit subject to lower limits set out below	Up	110 3/4	75 1/8	25	40		
	Wellingtonbridge to Abbey Junction (Over Barrow Underbridge)	Up	82	81 5/8	5	10		
	Abbey Junction through Platforms 3 & 4	Up	76 3/8	76	20	30		
	Through Waterford Yard sidings to Waterford West	Up	76	75 1/8	5	10		
Limerick (Colbert Station) to Foynes	Leaving Platform 5 (Plunkett Stn) to West Cabin	Up	75 5/8	75 1/8	20	30	Light Engines & Loco hauled trains may operate up to a maximum line speed of 25 mph / 40kph, subject to lower limits shown in adjacent column. 201 class only permitted in emergency at maximum speed of 25 mph / 40kph	
	Maximum line speed limit subject to lower limit set out below	Line not open to traffic. No trains permitted beyond Ballingrane due to structural condition of Robertstown Viaduct. Engineer's trains are subject to maximum 25 mph (40 km/h) speed limit but are not permitted beyond Ballingrane due to the structural condition of Robertstown Viaduct				201 class not permitted		
	Limerick to Cement Factory	Up & Down	-	-	20	30		201 class only permitted in emergency. No reduction
	Rosbrien Curve	Up & Down	-	-	15	25		
	Limerick (Ennis Junction) to Ennis	Maximum Line Speed Limit Subject to lower limits set out below	Down to Athenry	0 3/4	24 1/2	50		80
Track Curvature between Limerick and Ennis		Down	0 3/4	1 1/2	25	40		
Track Curvature between Limerick and Ennis		Down	1 1/2	3 1/2	40	65		
Bridge UBE18 Shannon Bridge		Down	3 1/2	3 3/4	30	50		
Crossing XE20		Down	9	9 1/4	25	40		
Track Curvature Limerick to Ennis		Down	9 5/8	10 1/4	40	65		
Crossing XE035		Down	13 1/2	13 5/8	40	65		
Ennis to Athenry	Cascade for Ennis Station and XE058	Down	24 1/8	24 1/2	35	55		
	Maximum Line Speed Limit Subject to lower limits set out below	Down to Athenry	24 1/2	60 3/8	80	130	60	95
	Ennis Station Track Curvature	Down	24 1/2	25 1/8	25	40		
	Track alignment at Bridge UBE77	Down	25 1/8	25 5/8	40	60		
	Crossings XE82 & XE83 between Ennis and Gort	Down	25 5/8	26 3/4	60	95		
	Crossing XE067 and Track Curvature between Ennis and Gort	Down	27 7/8	30 5/8	60	95		
	Cascade for XE78 between Ennis and Gort	Down	30 5/8	31 5/8	70	110		
	Crossings XE76 & XE77 between Ennis and Gort	Down	31 5/8	31 3/4	40	60		
	Track Curvature and XE78 between Ennis and Gort	Down	31 3/4	32 1/8	60	95		
	Track Curvature between Ennis and Gort	Down	33 3/8	34	70	110		
Track Curvature between Ennis and Gort	Down	35 1/2	36 1/4	70	110			
Track alignment at Tubber Bog	Down	36 1/4	36 1/2	40	60			

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Ennis to Atherry (Contd.)	Track Curvature between Ennis and Gort	Down	36 1/2	37 3/8	70	110		
	Crossing XE106 between Ennis and Gort	Down	38 1/8	38 1/4	60	95		
	Crossing XE107 between Ennis and Gort	Down	39 3/4	40	60	95		
	Crossings XE112/113/114/115/116/117/118 & 119 Ennis and Gort	Down	41 1/8	42	60	95		
	Gort Station & UB120 Cascade	Down	42	42 1/8	45	70		
	Gort Station	Down	42 1/8	42 1/2	30	45		
	Crossing XE127 between Gort and Ardrahan	Down	42 1/2	43 3/8	60	95		
	Curvature between Gort and Ardrahan	Down	43 3/8	44 1/4	75	110		
	Crossing XE144 and XE145 between Gort and Ardrahan	Down	45 1/2	45 5/8	60	95		
	Track alignment at OBE129 and OBE130	Down	45 5/8	46 3/4	70	110		
	Crossing XE149 between Gort and Ardrahan	Down	46 3/4	47	60	95		
	Track Curvature between Gort and Ardrahan	Down	47	48 1/4	70	110		
	Track Curvature through Ardrahan and towards Craughwell	Down	48 1/4	49 1/4	60	95		
	Track vertical alignment UBE141	Down	50 1/4	50 5/8	60	95		
	Track Curvature and crossing XE184	Down	53 1/2	55 3/8	60	95		
	Crossing XE191 between Craughwell and Atherry Cascade	Down	55 3/8	55 1/2	45	70		
	Crossing XE191 between Craughwell and Atherry	Down	55 1/2	55 5/8	30	45		
	Track Curvature	Down	57 1/2	58 1/4	70	110		
	Track Curvature	Down	58 1/4	59 7/8	60	95		
	Cascade for approach to Atherry	Down	59 7/8	60	45	70		
	Track Curvature approaching Atherry	Down	60	60 1/4	30	45		
	Track Curvature and junctionwork at Atherry	Down	60 1/4	60 3/8	20	30		
	Atherry to Ennis	Maximum Line Speed Limit Subject to lower limits set out below	Up to Limerick	60 3/8	24 1/2	80	130	60
Atherry Junctionwork and Track Curvature		Up	60 3/8	60 1/4	20	30		
Track Curvature between Atherry and Craughwell		Up	60 1/4	59 3/4	60	95		
Crossing XE207 & XE206 between Atherry and Craughwell		Up	59 3/4	59 5/8	45	70		
Crossing XE205 & XE204 between Atherry and Craughwell		Up	59 5/8	58 1/4	60	95		
Track Curvature Atherry to Craughwell		Up	58 1/4	57 1/2	70	110		
Track Curvature and crossings XE191 & XE184		Up	55 3/4	53 1/2	60	95		
Track vertical alignment UBE141		Up	50 5/8	50 1/4	60	95		
Track Curvature from Craughwell through Ardrahan		Up	49 1/4	48 1/4	60	95		
Track Curvature between Ardrahan and Gort		Up	48 1/4	47	70	110		
Crossing XE149 between Ardrahan and Gort		Up	47	46 7/8	60	95		
Track alignment at OBE130 and OBE129		Up	46 7/8	45 3/4	70	110		
Crossing XE145 and XE144 between Ardrahan and Gort		Up	45 3/4	45 5/8	60	95		
Curvature between Ardrahan and Gort		Up	44 1/4	43 1/2	75	120		
Crossing XE127 between Ardrahan and Gort		Up	43 1/2	43 1/8	60	95		
Crossings XE123 & Gort Station Cascade		Up	43 1/8	42 1/2	45	70		
Gort Station, UBE129 and crossing XE120		Up	42 1/2	41 7/8	30	45		
Crossings XE119/118/117/116/115/114/113 & 112 Gort and Ennis		Up	41 7/8	40 1/8	60	95		
Crossing XE107 between Gort and Ennis		Up	40 1/8	40	40	65		
Crossing XE106 between Gort and Ennis		Up	38 1/2	38 1/4	60	95		
Cascade for Tubber Bog		Up	37 3/8	36 1/2	70	110		
Track alignment at Tubber Bog		Up	36 1/2	36 1/4	40	60		
Track Curvature between Ennis and Gort		Up	36 1/4	35 1/2	70	110		
Track Curvature between Gort and Ennis		Up	34 1/8	33 3/8	70	110		
Crossing XE78 between Gort and Ennis		Up	32 1/4	31 7/8	60	95		
Crossing XE76 between Gort and Ennis		Up	31 7/8	31 3/4	45	70		
Track Curvature between Gort and Ennis		Up	30 5/8	28 1/8	60	110		
Crossing XE67 between Gort and Ennis		Up	28 1/8	27 7/8	50	80		
Track Curvature between Gort and Ennis		Up	27 7/8	26 7/8	70	110		
Crossings XE63/XE62 and SET Fixed Distant Signal (Cable Theft)		Up	26 7/8	25 5/8	45	70		
Track alignment at Bridge UBE77 and Ennis Cascade		Up	25 5/8	25	40	60		
Ennis Station Track Curvature		Up	25	24 1/2	25	40		
Ennis to Limerick (Ennis Junction)		Maximum Line Speed Limit Subject to lower limits set out below	Up	24 1/2	0 3/4	50	80	
	Track Curvature between Ennis and Limerick	Up	10 1/4	9 5/8	40	65		
	Crossings XE20 and XE19	Up	9 1/4	9	25	40		
	Crossing XE012	Up	6 5/8	6 3/8	40	65		
	Bridge UBE16 Shannon Bridge	Up	3 3/4	3 1/2	30	50		
	Track Curvature between Ennis and Limerick	Up	3 1/2	1 1/2	40	65		

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Athenry to Claremorris	Maximum line speed limit subject to lower limits set out below	Up & Down	80 3/4 and 0	78 17	25	40	Special reduction 201 Class only permitted in emergency	
	Athenry to Tuam	Up & Down	74	74 3/8	10	15	10	15
Athlone to Galway	Maximum Line Speed Limit Subject to lower limits set out below	Down to Galway	77 3/4 East Jn (Moate Line)	126 1/2	90	146	80	130
	Athlone station approach track curvature	Down	77 3/4 East Jn (Moate Line)	77 7/8	20	30		
	Shannon Bridge UBG106 and Athlone Midland Yard Bog strips and Crossings Athlone to Ballinasloe Track Curvature through Ballinasloe and UBG125 (Main Line)	Down	77 7/8	78 1/4	30	50		
		Down	78 1/4	91 1/4	80	130		
	Crossings XG128 Ballinasloe to Woodlawn Bog strip through Woodlawn Station (Main Line) Track Condition through Woodlawn Station (Loop Line)	Down	91 1/4	92	70	110		
		Down	94 1/4	94 1/2	80	130		
	Crossings XG135/136/137 Woodlawn to Athenry Crossings XG143/144/146/147 Woodlawn to Athenry Crossings XG150 Woodlawn to Athenry	Down	101 1/4	101 5/8	70	110		
		Down	101 1/4	101 5/8	40	65		
	Through Athenry Station Main Line	Down	104	105 1/8	80	130		
	Through Athenry Station Loop Line	Down	109	110 3/4	80	130		
	Cascade for crossing XG159 Athenry to Galway	Down	112 3/4	113 1/4	80	130		
	Crossing XG159 Athenry to Galway	Down	113 1/4	113 3/4	50	80		
	Oranmore Station and Crossing XG169 and XG172	Down	113 1/4	113 3/4	40	65		
	Crossing XG173 Athenry to Galway Curvature Athenry to Galway	Down	118 1/4	118 1/2	70	110		
		Down	118 1/2	118 3/4	40	65		
	Curvature and Cascade Athenry to Galway	Down	122	124 3/8	70	110		
	Diverging Route	Down	124 3/8	124 5/8	60	95		
	Approach to Terminus Platform (Loco hauled restriction applies to arrivals due to buffer setting)	Down	124 5/8	125 1/2	70	110		
		Down	125 1/2	126	50	80		
	Down	126	126m 550yd	30	50			
	Down	126 1/4	126 1/2	15	25	5	10	
	Down	126m 550yd	126 1/2	15	25			
Galway to Athlone	Maximum Line Speed Limit Subject to lower limits set out below	Up	126 1/2	77 3/4 East Jn (Moate Line)	90	146	80	130
	Bridge UBG170 Lough Atalia	Up	126 1/2	126	30	50		
	Diverging Route	Up	126m 530yd	126 1/4	15	25		
	Curvature Galway to Athenry	Up	126	125 1/2	50	80		
	Crossing XG173 Galway to Athenry	Up	125 1/2	124	80	95		
	Crossing XG172 Oranmore Station and Crossing XG169	Up	124	122	70	110		
	Cascade for crossing XG159 Galway to Athenry	Up	119 1/4	119	70	110		
	Crossing XG159 Galway to Athenry	Up	119	118 5/8	40	65		
	Cascade PSR for Athenry	Up	114	113 3/4	70	130		
	Through Athenry Station Main Line	Up	113 3/4	113 1/4	50	80		
	Through Athenry Station Loop Line	Up	113 3/4	113 1/4	40	65		
	Crossings XG150 Athenry to Woodlawn	Up	113 1/4	112 3/4	80	130		
	Crossings XG147/146/144/143 Athenry to Woodlawn	Up	111 1/8	108 1/4	80	130		
	Crossings XG137/136/135 Athenry to Woodlawn	Up	105 1/2	104 1/4	80	130		
	Bog strip through Woodlawn Station (Main Line) Track Condition through Woodlawn Station (Loop Line)	Up	101 5/8	101 1/4	70	110		
	Crossings XG128 Woodlawn to Ballinasloe	Up	101 5/8	101 1/4	40	65		
	Track Curvature through Ballinasloe and UBG125 (Main Line)	Up	94 7/8	94 3/8	80	130		
	Bog strip and Crossings Ballinasloe to Athlone	Up	92	91 1/4	70	110		
	Cascade PSR Ballinasloe to Athlone	Up	91 1/4	78 3/4	80	130		
	Cascade PSR Ballinasloe to Athlone	Up	78 3/4	78 1/2	50	80		
	Shannon Bridge UBG106 and Athlone Midland Yard	Up	78 1/2	78 1/4	35	55		
	Approaching Athlone Station track curvature	Up	78 1/4	77 7/8	30	50		
		Up	77 7/8	77 3/4 East Jn (Moate Line)	20	30		
		Up	77 7/8	77 3/4 East Jn (Moate Line)	20	30		

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Athlone to Westport	Maximum Line Speed Limit Subject to lower limits set out below	Down	78 1/4	161 1/8	70	110	Loco hauled trains may operate normally at speeds shown in adjacent column	
	Track Curvature leaving Junction with Galway Line	Down	78 1/4	78 7/8	20	30		
	Track Curvature Knockcroghery to Roscommon	Down	96 7/8	96 1/4	40	65		
	Track Curvature Roscommon to Castlereah	Down	96 1/4	96 3/4	30	50		
	Track Curvature	CH Down	112 1/4	112 3/8	45	70		
	Through Castlereah Station Main Line (Platform 1) - Signalling limitation	CH Down	112 3/8	112 7/8	35	55		
	Through Castlereah Station Loop Line (Platform 2) - Signalling limitation	CH Down	112 3/8	112 7/8	25	40		
	Crossing XM180 Castlereah to Ballyhaunis	Down	121 5/8	122	60	95		
	Cascade PSR approaching Ballyhaunis	Down	123 3/8	123 5/8	45	70		
	Through Ballyhaunis Station Main Line (Platform 2)	Down	123 5/8	124 3/8	40	65		
	Through Ballyhaunis Station Loop Line (Platform 1)	Down	123 5/8	124 3/8	30	50		
	Cascade PSR Ballyhaunis to Claremorris	Down	134 1/4	134 1/2	45	70		
	Track Curvature and through Claremorris Station Platform 1 & 2	Down	134 1/2	135 1/4	30	50		
	Crossing XM237 Claremorris to Manulla Junction	Down	145	145 1/4	60	95		
	Crossing XM240 Manulla Junction to Castlebar	Down	146 5/8	146 7/8	60	95		
	Cascade PSR approaching Castlebar	Down	149 5/8	149 7/8	45	70		
	Track Curvature through Castlebar Station	Down	149 7/8	150 5/8	30	50		
	Track Curvature Castlebar to Westport	Down	150 5/8	150 7/8	45	70		
	Crossing XM250 Castlebar to Westport	Down	151 3/8	151 7/8	40	65		
	Track Curvature Castlebar to Westport	Down	156 1/4	156 3/4	60	95		
Crossing XM267 Castlebar to Westport	Down	158 1/8	158 3/8	40	65			
Crossing XM268 Castlebar to Westport and PSR Warning Board	Down	159 3/4	160 7/8	50	80			
PSR approaching Westport Platform	Down	160 7/8	161 1/8	15	25			
Manulla Junction to Ballina	Maximum line speed limit subject to lower limits set out below	Down	146 7/8	166 1/2	60	95	Loco hauled trains may operate normally at speeds shown in adjacent column	
	Track Curvature from Manulla Junction towards Ballina	Down	146 7/8	146 1/2	20	30		
	Crossing XX031 between Manulla Junction and Foxford	Down	152 5/8	152 7/8	50	80		
	PSR warning board approaching Ballina	Down	166 1/8	166 1/2	20	30		
Ballina to Manulla Junction	Maximum line speed limit subject to lower limits set out below	Up	166 1/2	145 7/8	60	95	Loco hauled trains may operate normally at speeds shown in adjacent column	
	Crossing XX038 between Foxford and Manulla Junction	Up	154 7/8	154 5/8	40	65		
	Crossing XX031 between Foxford and Manulla Junction	Up	153	152 3/4	50	80		
	Crossing XX026 between Foxford and Manulla Junction	Up	151 7/8	151 5/8	40	65		
	Cascade PSR approaching Manulla Junction	Up	146 3/4	146 1/2	30	50		
Track Curvature at Manulla Junction	Up	146 1/2	145 7/8	20	30			
Westport to Athlone	Maximum line speed limit subject to lower limits set out below	Up	161 1/8	78 1/4	70	110	Loco hauled trains may operate normally at speeds shown in adjacent column	
	Crossing XM268 Westport to Castlebar	Up	160 1/8	159 7/8	50	80		
	Track Curvature Westport to Castlebar	Up	156 3/4	156 1/4	60	95		
	Crossings XM257 and XM256 Westport to Castlebar	Up	154	153 1/2	50	80		
	Crossing XM250 Westport to Castlebar	Up	151 7/8	151 3/8	40	65		
	Track Curvature Westport to Castlebar	Up	150 7/8	150 5/8	45	70		
	Track Curvature through Castlebar Station	Up	150 5/8	149 7/8	30	50		
	Crossing XM240 Claremorris to Manulla Junction	Up	147	146 3/4	60	95		
	Crossing XM237 Claremorris to Manulla Junction	Up	146 1/2	145 1/4	60	95		
	Cascade PSR approaching Claremorris	Up	135 1/2	135 1/4	45	70		
	Through Claremorris Station Platform 1 and 2	Up	135 1/4	134 3/4	30	50		
	Track Curvature Claremorris to Ballyhaunis	Up	134 3/4	134 1/2	45	70		
	Through Ballyhaunis Station Main Line (Platform 2)	Up	124 3/8	123 5/8	40	65		
	Through Ballyhaunis Station Loop Line (Platform 1)	Up	124 3/8	123 5/8	30	50		
	Crossing XM188 Ballyhaunis to Roscommon	Up	123 5/8	123 1/2	60	95		
	Cascade PSR approaching Castlereah (Signalling limitation)	CH Up	113 1/8	112 7/8	50	80		
	Through Castlereah Station Main Line (Up Platform) - Signalling	CH Up	112 7/8	112 3/8	35	55		
	Through Castlereah Station Loop Line (Down Platform) - Signalling	CH Up	112 7/8	112 3/8	25	40		
	Track curvature	CH Up	112 3/8	112 1/4	45	70		
	Cascade PSR approaching Roscommon	Up	97	96 3/4	45	70		
Track Curvature Castlereah to Roscommon	Up	96 3/4	96 1/4	30	50			

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Westport to Athlone (contd.)	Track Curvature Roscommon to Knockcroghery	Up	98 1/4	95 7/8	40	65		
	Cascade PSR approaching Athlone	Up	79 3/8	79 1/8	45	70		
	Cascade PSR approaching Athlone	Up	79 1/8	78 7/8	30	50		
	Track Curvature approaching Junction with Galway Line	Up	78 7/8	78 1/4	20	30		
Mullingar to Athlone	Maximum line speed limit subject to lower limit set out below	Up & Down	50 1/4	77 3/4	30	50	201 class only permitted in emergency at speeds shown in adjacent column	
	Moate to Athlone	Up & Down	72 3/4	73 3/4	10	15		

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
North Strand Junction to Connolly Station	Maximum line speed limit (Through North Strand Junction to and from Connolly Station)	Up & Down	-	-	20	30	201 class may operate normally at the speeds shown in adjacent column	
Glasnevin Junction Southern to Glasnevin Junction Midland	Maximum line speed limit	Up & Down	-	-	30	50	201 class may operate normally at the speeds shown in adjacent column	
Dublin (Liffey Junction) to Maynooth	Maximum line speed limit subject to lower limits set out below	Down	1 3/8	15	70	110	201 class may operate normally at the speeds shown in adjacent column	
Down Line	Through Liffey Junction	Down	1 3/8	1 3/4	30	50		
	Liffey Junction to Clonsilla	Down	3 1/8	3 3/4	60	95		
	Liffey Junction to Clonsilla	Down	4 1/4	4 1/2	70	110		
	Liffey Junction to Clonsilla	Down	5 1/4	6	80	95		
	Clonsilla to Maynooth	Down	7	7 3/4	60	95		
	Clonsilla to Maynooth	Down	8 3/4	9 1/4	50	80		
	Clonsilla to Maynooth	Down	10	10 5/8	70	110		
	Clonsilla to Maynooth	Down	10 5/8	11 5/8	50	80		
	Clonsilla to Maynooth	Down	11 5/8	12 1/8	60	95		
	Clonsilla to Maynooth	Down	12 1/8	12 3/8	40	65		
	Clonsilla to Maynooth Through Maynooth; down line	Up & Down	14 1/2	14 3/4	40	65		
Maynooth to Dublin (Liffey Junction)	Maximum line speed limit subject to lower limits set out below	Up	15	1 3/8	70	110	201 class may operate normally at the speeds shown in adjacent column	
Up Line	Maynooth to Clonsilla	Up	12 3/8	12 1/8	40	65		
	Maynooth to Clonsilla	Up	12 1/8	11 5/8	80	95		
	Maynooth to Clonsilla	Up	11 5/8	10 5/8	50	80		
	Maynooth to Clonsilla	Up	10 5/8	10	70	110		
	Maynooth to Clonsilla	Up	9 1/4	8 3/4	50	80		
	Maynooth to Clonsilla	Up	7 3/4	7	60	95		
	Clonsilla to Liffey Junction	Up	6	5 1/4	80	95		
	Clonsilla to Liffey Junction	Up	4 1/2	4 1/4	60	95		
	Clonsilla to Liffey Junction	Up	3 3/4	3 1/8	60	95		
	Through Liffey Junction	Up	1 3/4	1 3/8	30	50		
Clonsilla Junction to M3 Parkway	Maximum line speed limit subject to lower limits set out below	Down	7 1/4	11 3/4	70	110	201 class may operate normally at the speeds shown in adjacent column	
Down	Exiting Clonsilla Turnback Platform and across new crossover to Down Dunboyne Commuter	Down	7 1/4	7 1/2	20	30		
	Through facing crossover 253 at Clonsilla and turnout 254 down main Maynooth Line to down main Dunboyne Commuter	Down	7 1/4	7 1/2	20	30		
	Dunboyne to M3 Parkway	Down	11	11 1/4	50	80		
	Dunboyne to M3 Parkway and across crossovers in Down direction Through M3 Parkway	Down	11 1/4	11 1/2	35	55		
M3 Parkway to Clonsilla Junction	Maximum line speed limit subject to lower limits set out below	Up	11 3/4	7 1/4	70	110	201 class may operate normally at the speeds shown in adjacent column	
Up	Through M3 Parkway	Up	11 3/4	11 1/2	20	30		
	M3 Parkway to Dunboyne from down platform at M3 Parkway across crossovers in up direction	Up	11 1/2	11 1/4	35	55		
	Dunboyne to Clonsilla	Up	7 3/4	7 1/2	50	80		
	Through turnout 252 at Clonsilla in the up direction. Approaching Clonsilla Turnback Platform	Up	7 1/2	7 1/4	30	50		
Maynooth to Sligo	Maximum line speed limit subject to lower limits set out below	Down	15	134 1/4	75	120	Loco hauled trains may operate normally at the speeds shown in adjacent column	
Down Line	Maynooth to Enfield	Down	15	15 1/2	80	95		
	Maynooth to Enfield	Down	18 1/2	18 3/4	60	95		
	Maynooth to Enfield	Down	18 3/4	19 3/4	70	110		
	Maynooth to Enfield	Down	23 1/2	25	70	110		
	Maynooth to Enfield	Down	25 3/4	26 1/8	80	95		
	Through Enfield Main	Down	28 1/8	26 5/8	40	65		
	Through Enfield Loop	Down	28 1/8	26 5/8	30	50		
	Enfield to Killucan	Down	29 1/4	29 1/2	65	105		
	Enfield to Killucan	Down	29 1/2	31 1/4	70	110		
	Enfield to Killucan	Down	32 1/2	34 3/4	70	110		
	Crossing XG045 Enfield to Killucan	Down	40 5/8	41 1/8	60	95		
	Through Killucan Yard (Main line)	Down	41 1/8	41 7/8	70	110		
	Cascade PSR approaching Mullingar	Down	49 1/2	49 3/4	50	80		

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Maynooth to Sligo Contd.	Cascade PSR approaching Mullingar	Down	49 3/4	50	35	55	Loco hauled trains may operate normally at the speeds shown in adjacent column	
	Track Curvature through Mullingar Station	Down	50	50 3/8	20	30		
	Track Curvature Mullingar to Edgeworthstown	Down	50 3/8	51	50	80		
Crossing XS008 between Mullingar and Edgeworthstown	Down	53 1/4	53 1/2	60	95			
Down Line	Crossing XS019 between Mullingar and Edgeworthstown	Down	59 1/2	59 7/8	60	95		
	Cascade PSR - Signalling limitation through Edgeworthstown	CH Down	67 1/8	67 3/8	50	80		
	Through Edgeworthstown Station Main Line (Down Platform)	CH Down	67 3/8	67 7/8	40	60		
	Through Edgeworthstown Station Loop Line (Up Platform)	CH Down	67 3/8	67 7/8	30	50		
	Crossing XS052 between Edgeworthstown and Longford	CH Down	74 1/2	75 7/8	50	80		
	Through Longford Station Platform 1 and 2	CH Down	75 7/8	76 3/8	40	60		
	Track Curvature between Longford and Dromod	CH Down	76 3/8	77 1/4	50	80		
	Through Dromod Station Main Line (Up Platform)	CH Down	87 1/8	87 5/8	50	80		
	Through Dromod Station Loop Line (Down Platform)	CH Down	87 1/8	87 5/8	40	80		
	Cascade PSR approaching Carrick-on-Shannon Station	Down	97	97 3/8	50	80		
	Cascade PSR approaching Carrick-on-Shannon Station	Down	97 3/8	97 3/4	35	55		
	Through Carrick-on-Shannon Station	Down	97 3/4	98 1/8	20	30		
	Crossing XS094 between Carrick-on-Shannon and Boyle	Down	104 7/8	105 3/4	60	95		
	Cascade PSR approaching XS096	Down	105 3/4	106	50	80		
	Crossing XS096 between Carrick-on-Shannon and Boyle	Down	106	106 1/4	25	40		
	Through Boyle station Platform 1 and 2 - signalling limitation	CH Down	106 1/4	106 3/4	30	50		
	Crossing XS098 between Boyle and Ballymote	Down	108 1/4	108 1/2	50	80		
	Crossing XS138 between Ballymote and Sligo	Down	123 5/8	123 7/8	50	80		
	Track Curvature Ballymote to Sligo	Down	129 1/4	130 1/2	60	95		
	Crossing XS155 and PSR cascade approaching Sligo	Down	133	133 1/2	50	80		
Cascade PSR approaching Sligo	Down	133 1/2	134	35	55			
Approaching Sligo Station Platform	Down	134	134 1/4	15	25			
Sligo to Maynooth	Maximum line speed limit subject to lower limit set out below	Up	134 1/4	15	75	120	Loco hauled trains may operate normally at the speeds shown in adjacent column	
Up Line	Departing Sligo Station	Up	134 1/4	134	15	25		
	Track Curvature and Crossing XS155	Up	134	133	50	80		
	Track Curvature between Sligo and Ballymote	Up	130 1/2	129 3/8	60	95		
	Crossing XS138 between Sligo and Ballymote	Up	123 7/8	123 5/8	50	80		
	Crossing XS134 between Sligo and Ballymote	Up	122 3/4	122 1/2	50	80		
	Crossing XS098 between Boyle and Ballymote	Up	108 3/4	108 1/2	50	80		
	Cascade PSR approaching Boyle Station	CH Up	107	106 3/4	50	95		
	Through Boyle Station Platform 1 and 2 - Signalling limitation	CH Up	106 3/4	106	30	50		
	Crossing XS094 between Carrick-on-Shannon and Boyle	Up	106	104 7/8	60	95		
	Cascade PSR approaching Carrick-on-Shannon	Up	98 5/8	98 1/4	50	80		
	Cascade PSR approaching Carrick-on-Shannon	Up	98 1/4	98 1/8	35	55		
	Through Carrick-on-Shannon Station	Up	98 1/8	97 3/4	20	30		
	Through Dromod Station Main Line (Up Platform)	CH Up	87 5/8	87 1/8	50	80		
	Through Dromod Station Loop Line (Down Platform)	CH Up	87 5/8	87 1/8	40	80		
	Track Curvature between Dromod and Longford	CH Up	77 1/4	76 3/8	50	80		
	Through Longford Station Platform 1 and 2 and XS052	CH Up	76 3/8	74 3/4	40	60		
	Cascade PSR - Signalling limitation through Edgeworthstown	CH Up	68 1/8	67 7/8	50	80		

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS			
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour		
Sligo to Maynooth (Contd.)	Through Edgeworthstown Station Main Line (Down Platform)	CH	Up	67 7/8	67 3/8	40	60			
	Through Edgeworthstown Station Loop Line (Up Platform)	CH	Up	67 7/8	67 3/8	30	50			
Up Line	Crossing XS019 between Mullingar and Edgeworthstown		Up	60 1/4	59 7/8	60	95			
	Crossing XS017 between Mullingar and Edgeworthstown		Up	59 7/8	59 5/8	70	110			
	Cascade PSR approaching Mullingar		Up	51	50 3/4	50	80			
	Cascade PSR approaching Mullingar		Up	50 3/4	50 3/8	35	55			
	Track Curvature through Mullingar Station		Up	50 3/8	50	20	30			
	Crossing XG055 Mullingar to Killucan		Up	47 5/8	47 3/8	50	80			
	Through Killucan Yard (Main line)		Up	41 7/8	41 1/8	70	110			
	Crossing XG045 Enfield to Killucan		Up	41 1/8	40 7/8	60	95			
	Killucan to Enfield		Up	34 3/4	32 1/2	70	110			
	Killucan to Enfield		Up	31 1/4	29 1/2	70	110			
	Killucan to Enfield		Up	29 1/2	29 1/4	65	105			
	Killucan to Enfield		Up	27	26 5/8	60	95			
	Through Enfield Loop		Up	26 5/8	26 1/8	30	50			
	Through Enfield Main		Up	26 5/8	26 1/8	40	65			
	Enfield to Maynooth		Up	25	23 1/2	70	110			
Enfield to Maynooth		Up	19 3/4	18 3/4	70	110				
Enfield to Maynooth		Up	18 3/4	18 1/2	60	95				
Enfield to Maynooth		Up	15 1/2	15	60	95				
Docklands to Liffey Junction via North Wall MGWR Branch	Maximum line speed limit subject to lower limit set out below		Down	2 3/4	0	30	50	201 class may operate normally at the speeds shown in adjacent column		
	Docklands Station through Newcomen Junction		Down	2 3/4	2 1/4	20	30			
Liffey Junction to Docklands via North Wall MGWR Branch	Maximum line speed limit subject to lower limit set out below		Up	0	2 3/4	30	50	201 class may operate normally at the speeds shown in adjacent column		
	Newcomen Junction to Docklands Station Approaching Docklands Station		Up	2 1/4	2 5/8	20	30			
Newcomen Junction to Connolly Station	Through Newcomen Junction		Up & Down	-	-	10	15	201 class may operate normally at the speeds shown in adjacent column		
	Newcomen Junction to Connolly Station.		Up & Down	-	-	10	15			
Sligo to Sligo Quay	Maximum line speed limit subject to lower limit set out below (as far as Public Rd. Crossing at Quay)		Down	-	-	10	15	201 class not permitted		
Sligo to Sligo Quay	Maximum line speed limit subject to lower limit set out below (as far as Public Rd. Crossing at Quay)		Up	-	-	10	15	201 class not permitted		
Dublin (Connolly Station) to Dundalk/ The Border	Maximum line speed limit subject to lower limits set out below		Down	0	59 5/8 DART	90	145	201 class may operate normally at the speeds shown in adjacent column		
DOWN MAIN LINE	Leaving Connolly Suburban Station, via Ossary Road Junction		Down	-	-	20	30			
DOWN MAIN LINE	Connolly Station to Howth Junction		Down	0	1/2	20	30			
	Connolly Station to and through Howth Jctn.		Down	1/2	5 1/4	70	110			
	Through Malahide Station		Down	8 7/8	9 1/8	70	110			
	Approaching Drogheda (McBride Station)		Down	31	31 1/4	70	110			
	Approaching Drogheda (McBride Station)		Down	31 1/4	31 1/2	50	80			
	Through Drogheda Station and across the Boyne Viaduct		Up & Down	31 1/2	32 1/4	30	50			
	Through Dundalk		Down	54 1/8	54 1/2	70	110			
	Dundalk (Clarke Station) to the Border		Down	58 1/2	59 1/4	85	135			
	The Border/Dundalk to Dublin (Connolly Station)	Maximum line speed limit subject to lower limits set out below		Up	59 5/8	0 DART	90	145	201 class may operate normally at the speeds shown in adjacent column	
	The Border to Dundalk (Clarke Station)		Up	59 1/4	58 1/2	85	135			
UP MAIN LINE	Approaching the Boyne Viaduct		Up	32 3/4	32 1/2	70	110			
	Approaching the Boyne Viaduct		Up	32 1/2	32 1/4	60	80			
	Across the Boyne Viaduct		Up	32 1/4	31 7/8	30	50			
	Through Drogheda (McBride Station)		Up	31 7/8	31 1/4	25	40			
	Through Malahide Station		Up	9 1/8	8 7/8	70	110			
	Approaching Howth Junction to Connolly		Up	5 1/4	1 1/4	70	110			
	Through Howth Junction (Freight Only)		Up	5	4 5/8	25	40			
	Howth Junction to Connolly		Up	1 1/4	1	45	70			
	Howth Junction to Connolly		Up	1	3/4	30	50			
	Howth Junction to Connolly		Up	3/4	0	20	30			
	Approaching Connolly Suburban Station, through Ossary Road Junction		Up	-	-	20	30			

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
East Wall Branch East Wall Junction to Church Road Jn.	Maximum line speed limit	Up & Down	-	-	20	30	201 class may operate normally at the speeds shown in adjacent column	
Howth Branch DOWN LINE	Maximum line speed limit subject to lower limits set out below	Down	0	3 1/2	DART 60 OTHER 50	100 80	201 class may operate normally at the speeds shown in adjacent column	
Howth Branch UP LINE	Through Howth Junction and Station	Down	0	0 3/8	20	30	201 class may operate normally at the speeds shown in adjacent column	
	Approaching Howth Station	Down	3	3 1/4	30	45		
	Approaching Howth Station	Down	3 1/4	3 1/2	15	25		
	Maximum line speed limit subject to lower limits set out below	Up	3 1/2	0	DART 60 OTHER 40	100 85		
UP LINE	Through Bayside	Up	1	5/8	40	65	201 class may operate normally at the speeds shown in adjacent column	
	Approaching Howth Junction Station	Up	1	5/8	40	65		
	Through Howth Junction and Station	Up	5/8	3/8	30	50		
	Through Howth Junction and Station	Up	3/8	0	20	30		
Drogheda-Navan (including Tara Mines)	Maximum line speed limit subject to lower limit set out below	Up & Down	0	18	25	40	201 class may operate normally at the speeds shown in adjacent column	
	Navan to Tara Mines Tara Mines to Navan	Down Up	17 18	18 17	5 5	10 10		
Dublin (Connolly Station) to Bray DOWN LINE Southbound	Maximum line speed limit subject to lower limits set out below	Down	-	-	DART 60 60	95 100	201 class may operate normally at the speeds shown in adjacent column subject to the following restrictions: 3/4 MP to 0 MP and 0 MP to 1 3/4 MP Up & Down, a 20 Mph/30Kmph speed restriction applies to ALL Loco Hauled, Push-Pull Trains and Light Engines	
DOWN LINE Northbound	From the Pearse end of Platforms 5, 6 and 7 in Connolly through 877A, 877B and 878 pts	Down	3/4	0	Mileage includes: (Connolly - Pearse) 0 12 13			
	Connolly Station to Pearse	Down	3/4	0	(Pearse - Shanganagh) 0 1/2			
	Pearse to Grand Canal Dock Station	Down	0	1/2	(Shanganagh - Bray) 30 50			
	Relief Main at Pearse Station	Up & Down	-	-	20 30			
	Approaching Grand Canal Dock Tumback Platform	Down	-	-	10 15			
	Through Grand Canal Dock	Down	1/2	3/4	45 70			
	Salthill to approach of Dun Laoghaire	Down	5 1/2	5 3/4	45 70			
	Approaching and through Dun Laoghaire	Down	5 3/4	6 1/8	30 50			
	Dun Laoghaire to Sandycove	Down	6 1/8	6 3/4	20 30			
	Sandycove to and through Dalkey	Down	6 3/4	8 3/4	30 50			
	Dalkey to Killiney	Down	8 3/4	9 3/4	40 65			
	Approaching Bray (Daly Station)	Down	11 1/2	12	40 65			
	Through Bray (Daly Station) towards Greystones	Down	12	13	25 40			
Bray to Connolly Station UP LINE Northbound	Maximum line speed limit subject to lower limits set out below	Up	-	-	DART 60 60	95 100	201 class may operate normally at the speeds shown in adjacent column subject to the following restrictions: 1 3/4 MP to 0 MP and From 0 MP to 3/4 MP Up & Down, a 20 Mph/30Kmph speed restriction applies to ALL Loco Hauled, Push-Pull Trains and Light Engines	
UP LINE Northbound	From Greystones, through Bray (Daly Station)	Up	13	12	Mileage includes: (Bray - Shanganagh) 10 5/8 0 3/4 (Shanganagh - Pearse) (Pearse - Connolly) 25 40			
	Killiney to Dalkey	Up	9 3/4	8 3/4	40 65			
	Dalkey to Sandycove	Up	8 3/4	6 3/4	30 50			
	Sandycove to Dun Laoghaire	Up	6 3/4	6 1/8	20 30			
	Through Dun Laoghaire	Up	6 1/8	5 3/4	30 50			
	Lansdowne Road to Grand Canal Dock	Up	7/8	5/8	45 70			
	Through Grand Canal Dock to Pearse	Up	5/8	0	30 50			
	Pearse to Connolly	Up	0	3/4	30 50			
From Pearse end of Platforms 5, 6 and 7 in Connolly through 877A, 877B and 878 pts	Up	-	-	10 15				
Bray to Greystones	Maximum line speed limit subject to lower limits set out below	Down	13	17 1/4	DART 60 100	95 100	201 class may operate normally at the speeds shown in adjacent column	
	Bray to Greystones	Down	13	13 1/2	50	80		
	Bray to Greystones	Down	13 1/2	15 1/2	40	65		
	Through Greystones Station Up Loop	Down	16 3/4	17 1/4	30	50		
Through Greystones Station Down Main	Down	16 3/4	17 1/4	40	65			

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Greystones to Bray	Maximum line speed limit subject to lower limits set out below	Up	17 1/4	13 DART	80	95	201 class may operate normally at the speeds shown in adjacent column	
	Through Greystones Station Down Main	Up	17 1/4	16 3/4	40	65		
	Through Greystones Station Up Loop	Up	17 1/4	16 3/4	30	50		
	Greystones to Bray	Up	15 1/2	13 1/2	40	65		
Greystones to Rosslare Europort	Maximum line speed limit subject to lower limits set out below	Down	-	-	70	110	201 class may operate normally at the speeds shown in adjacent column	
			Mileage includes 17 1/4 - 92 3/4 (Greystones - Wexford) 6 1/4 - 0 (Wexford -Rosslare Strand) 110 3/4-114 (Rosslare Std.-R'lare E'port)					
	Greystones to Wicklow	Down	27 1/2	27 3/4	45	70		
	Through Wicklow Down Main	Down	27 3/4	28 3/8	30	50		
	Through Wicklow Up Loop	Down	28 1/8	28 3/8	20	30		
	Wicklow to Rathdrum	Down	36 1/8	37	65	105		
	Wicklow to Rathdrum	Down	37	37 1/8	45	70		
	Through Rathdrum	Down	37 1/8	38	30	50		
	Rathdrum to Arklow	Down	38	41 1/4	60	95		
	Rathdrum to Arklow	Down	41 1/4	42 3/4	50	80		
	Rathdrum to Arklow	Down	42 3/4	44 1/4	60	95		
	Rathdrum to Arklow	Down	44 1/4	45 1/2	50	80		
	Rathdrum to Arklow	Down	45 1/2	48 3/8	60	95		
	Rathdrum to Arklow	Down	48 3/8	48 3/4	40	65		
	Through Arklow Down Main	Down	48 3/4	49 1/4	30	50		
	Through Arklow Up Loop	Down	48 3/4	49 1/4	20	30		
	Arklow to Gorey	Down	57 7/8	59	60	95		
	Arklow to Gorey	Down	59	59 1/4	40	65		
	Through Gorey	Down	59 1/4	59 3/4	20	30		
	Gorey to Enniscorthy		73 1/2	73 3/4	50	80		
	Gorey to Enniscorthy	Down	74 1/2	76	60	95		
	Gorey to Enniscorthy		76	76 1/4	50	80		
	Gorey to Enniscorthy		76 1/4	76 3/8	30	50		
	Gorey to Enniscorthy	Down	76 3/8	77 3/8	50	80		
	Through Enniscorthy including through Tunnel	Down	77 3/8	78 1/4	30	50		
	Enniscorthy to Wexford	Down	78 1/4	78 1/2	40	65		
	Enniscorthy to Wexford	Down	81 1/4	81 5/8	60	95		
	Enniscorthy to Wexford	Down	81 5/8	82 1/2	70	110		
	Enniscorthy to Wexford	Down	82 1/2	83 1/2	60	95		
	Enniscorthy to Wexford	Down	83 1/2	83 3/4	50	80		
	Enniscorthy to Wexford	Down	83 3/4	84	40	65		
	Enniscorthy to Wexford	Down	84	84 3/4	70	110		
	Enniscorthy to Wexford	Down	84 3/4	85 7/8	60	95		
	Enniscorthy to Wexford	Down	85 7/8	86	40	65		
	Enniscorthy to Wexford	Down	86	86 3/8	60	95		
	Enniscorthy to Wexford	Down	86 3/8	86 7/8	40	65		
	Enniscorthy to Wexford	Down	86 7/8	91	50	80		
	Enniscorthy to Wexford	Down	91	91 3/8	40	65		
	Enniscorthy to Wexford	Down	91 3/8	92 1/2	50	80		
	Through Wexford Station	Down	92 1/2	92 3/4	25	40		
	Wexford South to Rosslare Strand	Down	6 1/4	5 5/8	5	10		
	Wexford South to Rosslare Strand	Down	5 5/8	5	25	40		
	Wexford South to Rosslare Strand	Down	5	4 1/2	40	65		
	Wexford South to Rosslare Strand	Down	3 3/8	3 1/8	40	65		
	Wexford South to Rosslare Strand	Down	3/4	1/2	65	105		
	Wexford South to Rosslare Strand	Down	1/2	1/8	50	80		
	Through Rosslare Strand Down Main	Down	1/8	0	30	50		
	Through Rosslare Strand Up Loop	Down	1/8	0	20	30		
	Through Rosslare Strand Down Main	Down	110 3/4	111	30	50		
	Through Rosslare Strand Up Loop	Down	110 3/4	111	20	30		
	Rosslare Strand to Rosslare Europort	Down	112 3/4	113	60	95		
	Rosslare Strand to Rosslare Europort	Down	113	113 3/4	40	65		
	Rosslare Europort Station	Down	113 3/4	114	15	25		

SCHEDULE OF PERMANENT SPEED RESTRICTIONS

Line	Between	Trains to which Restriction apply	MILEAGE (To nearest 1/8 mile)		GENERAL SPEED RESTRICTIONS		LOCO HAULED SPEED RESTRICTIONS	
			From	To	Miles per Hour	Km per Hour	Miles per Hour	Km per Hour
Rosslare Europort to Greystones	Maximum line speed limit subject to lower limits set out below	Up	-	-	70	110	201 class may operate normally at the speeds shown in adjacent column	
			Mileage includes 114-110 3/4 (R'lare Eport - Rosslare Std.) 0 - 6 1/4 (Rosslare Strand - Wexford) 92 3/4 - 17 1/4 (Wexford - Greystones)					
	Rosslare Europort Station	Up	114	113 3/4	15	25		
	Rosslare Europort to Rosslare Strand	Up	113 3/4	113	40	65		
	Rosslare Europort to Rosslare Strand	Up	113	112 3/4	60	95		
	Rosslare Europort to Rosslare Strand	Up	111 1/4	111	50	80		
	Through Rosslare Strand Up Loop	Up	111	110 3/4	20	30		
	Through Rosslare Strand Down Main	Up	111	110 3/4	30	50		
	Through Rosslare Strand Up Loop	Up	0	1/8	20	30		
	Through Rosslare Strand Down Main	Up	0	1/8	30	50		
	Rosslare Strand to Wexford South	Up	1/8	3/4	50	80		
	Rosslare Strand to Wexford South	Up	3	3 1/4	40	65		
	Rosslare Strand to Wexford South	Up	4 1/2	5	40	65		
	Rosslare Strand to Wexford South	Up	5	5 5/8	25	40		
	Rosslare Strand to Wexford South	Up	5 5/8	6 1/4	5	10		
	Through Wexford Station	Up	92 3/4	92 1/2	25	40		
	Wexford to Enniscoorthy	Up	92 1/2	91 3/8	50	80		
	Wexford to Enniscoorthy	Up	91 3/8	91	40	65		
	Wexford to Enniscoorthy	Up	91	88 7/8	50	80		
	Wexford to Enniscoorthy	Up	86 7/8	86 1/8	40	65		
	Wexford to Enniscoorthy	Up	86 1/8	86	30	50		
	Wexford to Enniscoorthy	Up	86	84 3/4	60	95		
	Wexford to Enniscoorthy	Up	84 3/4	84	70	110		
	Wexford to Enniscoorthy	Up	84	83 3/4	40	65		
	Wexford to Enniscoorthy	Up	83 3/4	83 1/2	50	80		
	Wexford to Enniscoorthy	Up	83 1/2	82 1/2	60	95		
	Wexford to Enniscoorthy	Up	82 1/2	81 5/8	70	110		
	Wexford to Enniscoorthy	Up	81 5/8	81 1/4	60	95		
	Wexford to Enniscoorthy	Up	78 1/2	78 1/4	40	65		
	Through Enniscoorthy including through Tunnel	Up	78 1/4	77 3/8	30	50		
	Through Enniscoorthy	Up	77 3/8	76 1/2	50	80		
	Enniscoorthy to Gorey	Up	76 1/2	76 3/8	30	50		
	Enniscoorthy to Gorey	Up	76 3/8	76	50	80		
	Enniscoorthy to Gorey	Up	76	74 1/2	60	95		
	Enniscoorthy to Gorey	Up	74	73 3/4	60	95		
	Enniscoorthy to Gorey	Up	80	59 3/4	45	70		
	Through Gorey	Up	59 3/4	59 1/4	20	30		
	Gorey to Arklow	Up	59 1/4	57 7/8	60	95		
	Gorey to Arklow	Up	49 1/2	49 1/4	50	80		
	Through Arklow Up Loop	Up	49 1/4	48 3/4	20	30		
	Through Arklow Down Main	Up	49 1/4	48 3/4	30	50		
	Arklow to Rathdrum	Up	48 3/4	48 3/8	40	65		
	Arklow to Rathdrum	Up	48 3/8	45 1/2	60	95		
	Arklow to Rathdrum	Up	45 1/2	44 1/4	50	80		
	Arklow to Rathdrum	Up	44 1/4	42 3/4	60	95		
	Arklow to Rathdrum	Up	42 3/4	41 1/4	50	80		
	Arklow to Rathdrum	Up	41 1/4	38 1/4	60	95		
	Arklow to Rathdrum	Up	38 1/4	38	45	70		
	Through Rathdrum	Up	38	37 1/8	30	50		
	Rathdrum to Wicklow	Up	37 1/8	36 1/8	65	105		
	Rathdrum to Wicklow	Up	28 5/8	28 3/8	45	70		
	Through Wicklow Up Loop	Up	28 3/8	28 1/8	20	30		
	Through Wicklow Down Main	Up	28 3/8	27 3/4	30	50		

Appendix 5

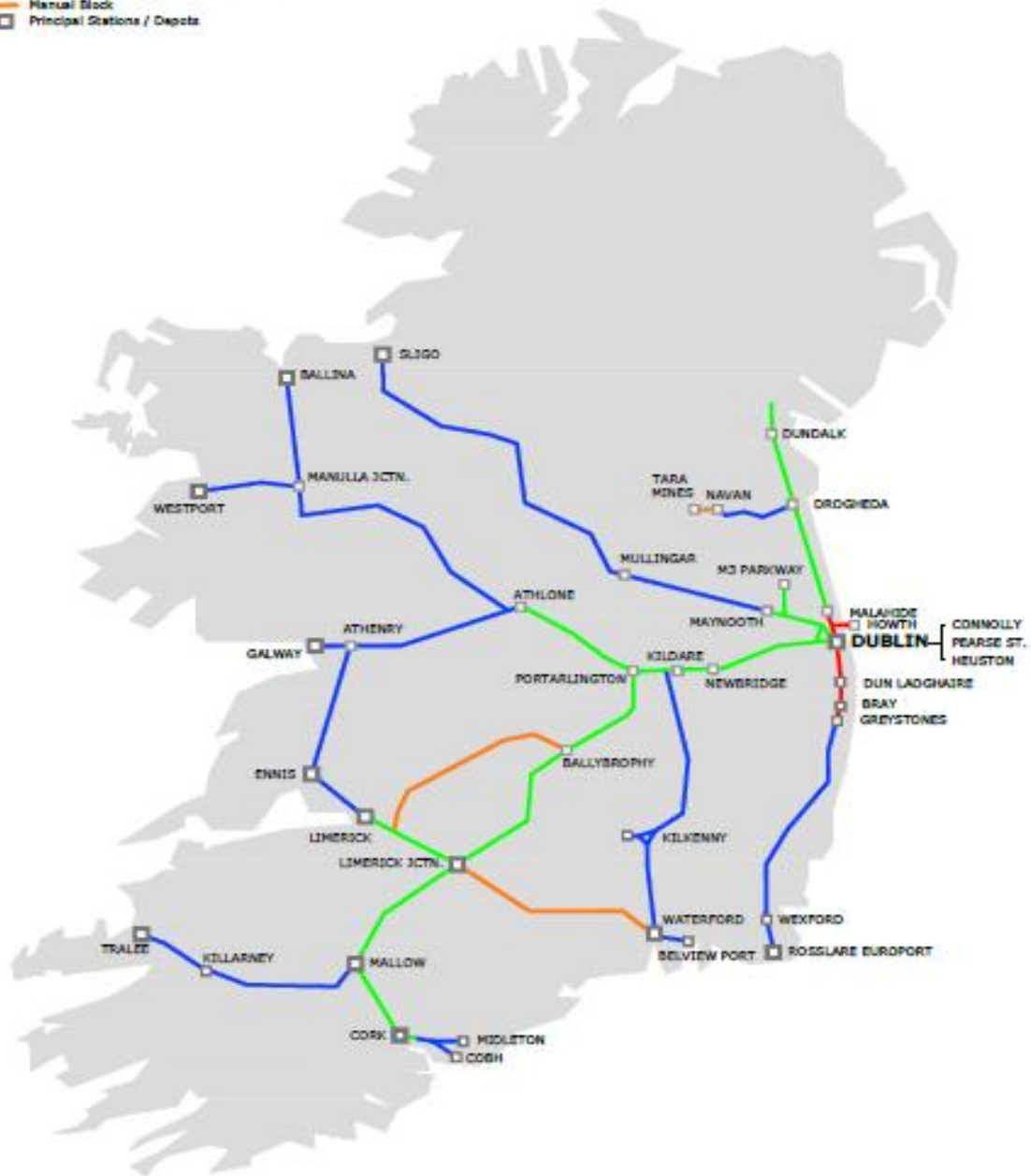
Signalling Systems



Version 1.1 October 2022

LEGEND

- Track Circuit CAWS
- Track Circuit / Aisle Counter CAWS & ATP
- Track Circuit Block
- Manual Block
- Principal Stations / Depots

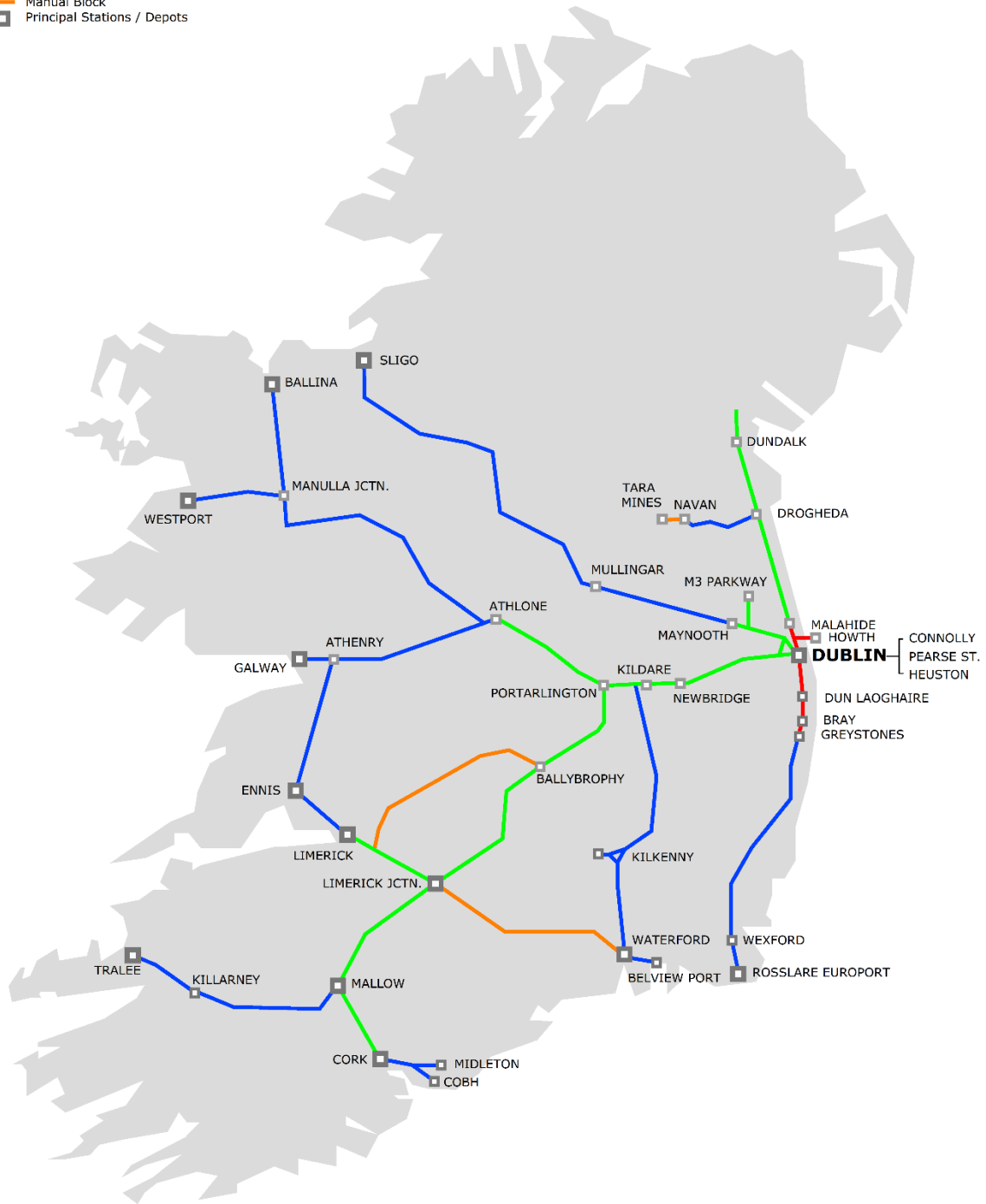


Appendix 5

Signalling Systems

LEGEND

- Track Circuit CAWS
- Track Circuit / Axle Counter CAWS & ATP
- Track Circuit Block
- Manual Block
- Principal Stations / Depots



Appendix 6

Signalling Control Areas

LEGEND

- CTC Connolly
- Regional ECP
- Local Control
- Stations / Depots



Appendix 6

Signalling Control Areas

LEGEND

- CTC Connolly
- Regional ECP
- Local Control
- Stations / Depots

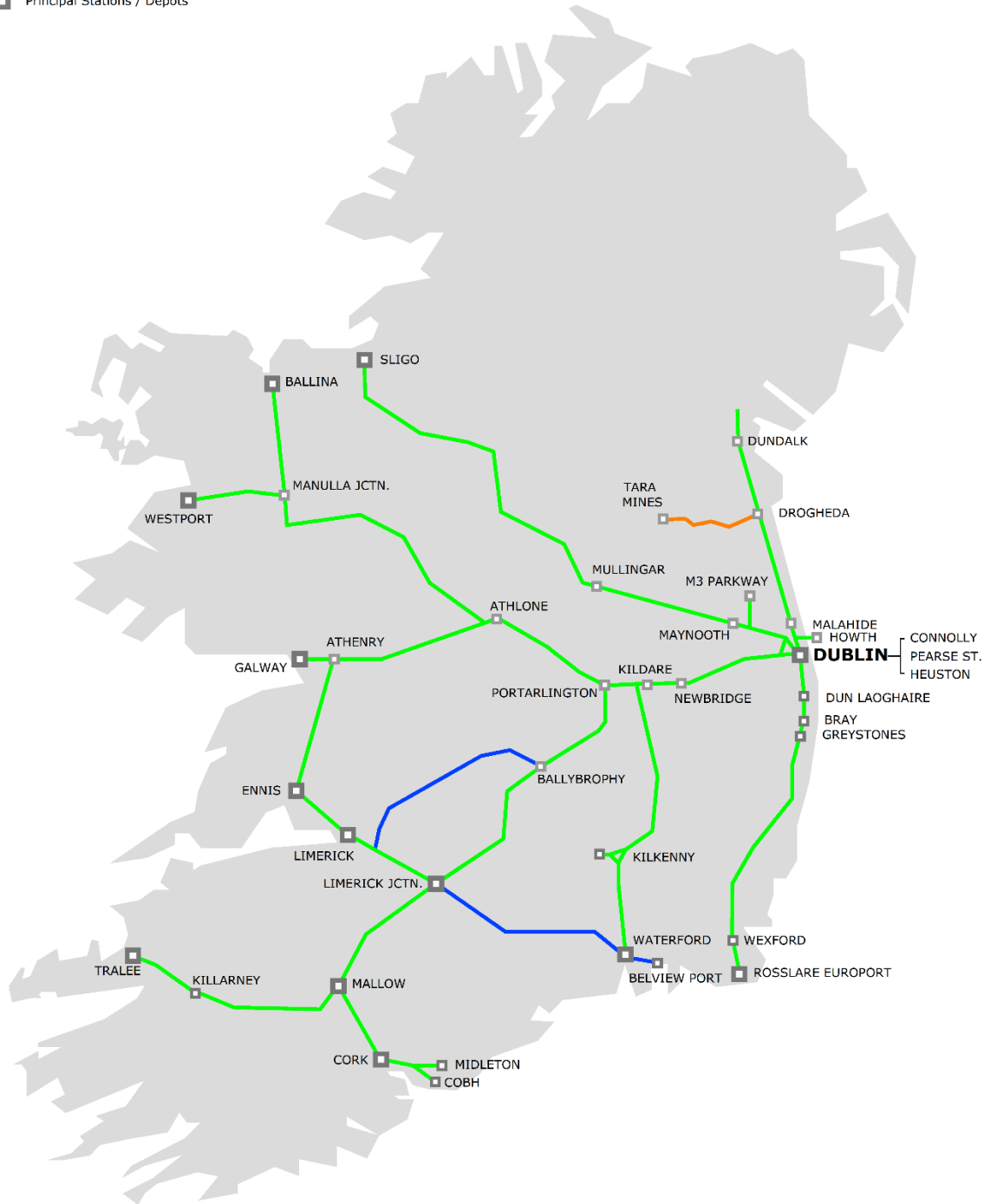


Appendix 7

Train Radio Systems

LEGEND

- Mode A
- Mode C
- No Radio
- ▣ Principal Stations / Depots



Appendix 8 Sidings

The availability, condition and usable length of each of the following sidings should be confirmed with the Infrastructure Manager.

As of 02/03/2016

Description of functional location	Serial Number	Description of technical object	Start Mls	Start Yds	End Mls	End Yds
Athenry to Tuam	IN-AT2TU-SD-T1	Tuam Siding 1	75	1271	76	40
Athenry to Tuam	IN-AT2TU-SD-T4	Tuam Siding 4	75	1469	75	1653
Athenry to Tuam	IN-AT2TU-SD-CR	Siding crossing	75	1484	75	1510
Athenry to Tuam	IN-AT2TU-SD-US	Tuam Up Siding	75	1488	76	40
Athenry to Tuam	IN-AT2TU-SD-SS2	Tuam Shed Siding 2	75	1613	76	5
Athenry to Tuam	IN-AT2TU-SD-T3	Tuam Siding 3	75	1654	76	48
Athenry to Tuam	IN-AT2TU-SD-T2	Tuam Siding 2	75	1687	76	38
Athenry to Tuam	IN-AT2TU-SD-SS1	Tuam Shed Siding 1	75	1692	76	7
Athenry to Tuam	IN-AT2TU-SD-C	Tuam - Disconnected Shed crossing	75	1713	75	1747
Athlone to Westport	IN-AW2WT-SD-KYS	Knockcroghery Siding	90	513	90	803
Athlone to Westport	IN-AW2WT-SD-SS	Roscommon Station Siding	96	260	96	521
Athlone to Westport	IN-AW2WT-SD-BS	Castlerea Ballast Siding	112	729	112	1065
Athlone to Westport	IN-AW2WT-SD-GS	Ballyhaunis Siding	123	1186	123	1650
Athlone to Westport	IN-AW2WT-SD-CTS	Claremorris - Tuam Siding	134	1468	135	354
Athlone to Westport	IN-AW2WT-SD-TS	Claremorris Turntable Siding	135	66	135	255
Athlone to Westport	IN-AW2WT-SD-CBS	Claremorris - Ballinrobe Siding	134	1451	135	237
Athlone to Westport	IN-AW2WT-CSC	Claremorris Siding Crossover	135	70	135	141
Athlone to Westport	IN-AW2WT-SD-LS	Westport Locomotive Siding	161	219	161	321
Athlone to Westport	IN-AW2WT-SD-QS	Westport Quay Siding	161	335	161	604
Ballybrophy to Killonan Jct	IN-BY2KJ-SD-R	Roscrea Siding	9	1588	10	69
Ballybrophy to Killonan Jct	IN-BY2KJ-SD-N1	Nenagh Siding 1	29	52	29	706
Ballybrophy to Killonan Jct	IN-BY2KJ-SD-N2	Nenagh Siding 2	29	357	29	538
Ballybrophy to Killonan Jct	IN-BY2KJ-SD-K1	Kilmastulla Siding 1	40	1385	40	1673
Ballybrophy to Killonan Jct	IN-BY2KJ-SD-K2	Kilmastulla Siding 2	40	1591	41	182
Ballybrophy to Killonan Jct	IN-BY2KJ-SD-K3	Kilmastulla Siding 3	40	1709	41	366
Ballybrophy to Killonan Jct	IN-BY2KJ-SD-BS	Birdhill Siding	42	818	42	1002
Broadstone to Sligo	IN-BS2SO-SD-CS	Clonsilla Siding	6	1677	7	112
Broadstone to Sligo	IN-BS2SO-SD-MNS	Maynooth Siding	15	41	15	298

Broadstone to Sligo	IN-BS2SO-SD-MLS	Maynooth Long Siding	15	233	15	700
Broadstone to Sligo	IN-BS2SO-SD-ELS	Enfield Long Siding	25	1445	26	343
Broadstone to Sligo	IN-BS2SO-SD-ES1	Enfield Siding 1	26	190	26	581
Broadstone to Sligo	IN-BS2SO-SD-ES2	Enfield Siding 2	26	401	26	578
Broadstone to Sligo	IN-BS2SO-SD-KS	Killucan Siding	41	584	41	849
Broadstone to Sligo	IN-BS2SO-SD-LS	Mullingar Long Siding	49	1655	50	342
Broadstone to Sligo	IN-BS2SO-SD-EW	Edgeworthstown Siding	67	438	67	914
Broadstone to Sligo	IN-BS2SO-SD-LGC	Longford Gantry Crane Siding	75	1745	76	490
Broadstone to Sligo	IN-BS2SO-SD-LCT	Longford Container Terminal Siding	76	22	76	554
Broadstone to Sligo	IN-BS2SO-SD-DMG	Dromod Gantry Siding	87	842	87	1067
Broadstone to Sligo	IN-BS2SO-SD-DM	Dromod Siding	87	873	87	981
Broadstone to Sligo	IN-BS2SO-SD-BO	Boyle Siding	106	954	106	1405
Carlow Branch	IN-CE2VW-SD-CS	Carlow - Cement Siding	55	1204	55	1731
Cement Factory Junction to Foynes	IN-CM2FS-SD-ST	Foynes - Siding beside Tippler	26	400	26	922
Cement Factory Junction to Foynes	IN-CM2FS-SD-OS	Foynes - Oil Siding	26	452	26	820
Cement Factory Junction to Foynes	IN-CM2FS-SD-TS	Foynes - Tippler Siding (OOU)	26	639	26	958
Cement Factory Junction to Foynes	IN-CM2FS-SD-F1	Foynes Siding 1	26	788	26	1298
Cement Factory Junction to Foynes	IN-CM2FS-SD-F3	Foynes Siding 3	26	1043	26	1295
Cement Factory Junction to Foynes	IN-CM2FS-SD-F2	Foynes Siding 2	26	1066	26	1235
Cement Factory Junction to Foynes	IN-CM2FS-SD-C	Foynes - Siding Crossing	26	1146	26	1203
Claremorris to Collooney	IN-CS2CC-SD	Claremorris to Collooney - Closed Siding	0	680	46	300
Claremorris to Collooney	IN-CS2CC-SD-KS	Kiltimagh Siding	9	485	9	774
Claremorris to Collooney	IN-CS2CC-SD-S2	Swinford Siding 2	17	223	17	508
Claremorris to Collooney	IN-CS2CC-SD-S1	Swinford Siding 1	17	369	17	504
Claremorris to Collooney	IN-CS2CC-SD-CS	Charlestown Siding	24	95	24	308
Claremorris to Collooney	IN-CS2CC-SD-TSS	Tobercurry Station Siding	30	1354	30	1546
Claremorris to Collooney	IN-CS2CC-SD-T1	Tobercurry Siding 1	30	1618	30	1695
Claremorris to Collooney	IN-CS2CC-SD-T2	Tobercurry Siding 2	30	1618	30	1645

Claremorris to Collooney	IN-CS2CC-SD-CSS	Leyay Station - Goods Siding	41	340	41	613
Claremorris to Collooney	IN-CS2CC-SD-CGS	Leyay Station - Goods Siding	41	398	41	707
Coniberry Branch	IN-CB2CB-SD-CS	Conniberry Siding - Portlaoise Depot	0	0	0	1684
Coniberry Branch	IN-CB2CB-SD-GS	Portlaoise Depot - Goods Store Shed Rd	0	18	0	554
Coniberry Branch	IN-CB2CB-SD-GSS	Portlaoise Depot - Goods Store Siding	0	64	0	180
Coniberry Branch	IN-CB2CB-SD-SD1	Portlaoise Depot - Long Siding	0	78	0	721
Coniberry Branch	IN-CB2CB-SD-LS	Portlaoise Depot - Yard Loop Siding	0	119	0	839
Coniberry Branch	IN-CB2CB-SD-SD4	Portlaoise Depot - Fuel Road	0	142	0	321
Coniberry Branch	IN-CB2CB-SD-GC1	Portlaoise Depot - Gantry Crane Siding 1	0	329	0	803
Coniberry Branch	IN-CB2CB-SD-SD2	Portlaoise Depot - Sleeper Siding 2	0	371	0	942
Coniberry Branch	IN-CB2CB-SD-OTM1	CCE Depot: OTM Compound, Calibration Rd	0	410	0	687
Coniberry Branch	IN-CB2CB-SD-SD3	Portlaoise Depot - Sleeper Siding 3	0	421	0	787
Coniberry Branch	IN-CB2CB-SD-GC3	Portlaoise Depot - Gantry Crane Siding 3	0	423	0	919
Coniberry Branch	IN-CB2CB-SD-OTM2	CCE Depot: OTM Compound, Middle Road	0	440	0	687
Coniberry Branch	IN-CB2CB-SD-CSS	Portlaoise Depot - Factory Road	0	461	0	634
Coniberry Branch	IN-CB2CB-SD-OTM3	CCE Depot: OTM Compound, Depot Road	0	470	0	687
Coniberry Branch	IN-CB2CB-SD-GC2	Portlaoise Depot - Gantry Crane Siding 2	0	580	0	956
Coniberry Branch	IN-CB2CB-SD-SL	Portlaoise Depot - Sleeper Loading Sidin	0	558	0	870
Coniberry Branch	IN-CB2CB-SD-DGS	Portlaoise Depot - Donelli Gantry Siding	0	654	0	758
Coniberry Branch	IN-CB2CB-SD-HS	Portlaoise Depot - Holding Set	0	861	0	1010
Coniberry Branch	IN-CB2CB-SD-SLX	Portlaoise Depot - Telfords	0	1019	0	1306
Connolly to Border	IN-CY2BD-SD-VD2	Connolly - Valetting Depot Siding 2	0	215	0	484
Connolly to Border	IN-CY2BD-SD-VD1	Connolly - Valetting Depot Siding 1	0	215	0	538
Connolly to Border	IN-CY2BD-SD-CS2	Connolly - Carriage Shed Siding 2	0	270	0	640
Connolly to Border	IN-CY2BD-SD-CS1	Connolly - Carriage Shed Siding 1	0	271	0	420
Connolly to Border	IN-CY2BD-SD-CS4	Connolly - Carriage Shed Siding 4	0	282	0	423

Connolly to Border	IN-CY2BD-SD-CS3	Connolly - Carriage Shed Siding 3	0	285	0	583
Connolly to Border	IN-CY2BD-SD-CS6	Connolly - Carriage Shed Siding 6	0	286	0	520
Connolly to Border	IN-CY2BD-SD-CS5	Connolly - Carriage Shed Siding 5	0	286	0	445
Connolly to Border	IN-CY2BD-SD-2WS	Connolly - Siding from Platform 1 to Was	0	446	0	617
Connolly to Border	IN-CY2BD-SD-LS3	Connolly - Loco Shed Siding 3	0	447	0	561
Connolly to Border	IN-CY2BD-SD-LS2	Connolly - Loco Shed Siding 2	0	471	0	562
Connolly to Border	IN-CY2BD-SD-TS1	Connolly - Turntable Siding	0	490	0	628
Connolly to Border	IN-CY2BD-SD-LS1	Connolly - Loco Shed Siding 1	0	513	0	563
Connolly to Border	IN-CY2BD-SD-WS	Connolly - Wash Siding	0	568	0	1156
Connolly to Border	IN-CY2BD-SD-WR	Fairview - Wash Road	0	1234	1	431
Connolly to Border	IN-CY2BD-SD-FD3	Fairview Siding 3	0	1280	1	476
Connolly to Border	IN-CY2BD-SD-CR1	Fairview - Cripple Siding 1	0	1370	0	1570
Connolly to Border	IN-CY2BD-SD-CR2	Fairview - Cripple Siding 2	0	1370	0	1475
Connolly to Border	IN-CY2BD-SD-US1	Fairview - Up Siding 1	0	1570	1	205
Connolly to Border	IN-CY2BD-SD-FD1	Fairview Siding 1	0	1400	1	440
Connolly to Border	IN-CY2BD-SD-FD2	Fairview Siding 2	0	1510	1	287
Connolly to Border	IN-CY2BD-SD-C2	Fairview - Siding Crossing 2	0	1585	0	1641
Connolly to Border	IN-CY2BD-SD-C1	Fairview - Siding Crossing 1	0	1576	0	1615
Connolly to Border	IN-CY2BD-SD-US2	Fairview - Up Siding 2	0	1575	1	205
Connolly to Border	IN-CY2BD-SD-US3	Fairview - Up Siding 3	0	1618	1	194
Connolly to Border	IN-CY2BD-SD-US4	Fairview - Up Siding 4	0	1676	1	116
Connolly to Border	IN-CY2BD-SD-C3	Fairview - Siding Crossing 3	1	253	1	328
Connolly to Border	IN-CY2BD-SD-ES	Malahide Electrified Siding	8	992	8	1583
Connolly to Border	IN-CY2BD-SD-NES	Malahide Non-Electrified Siding	8	999	8	1355
Connolly to Border	IN-CY2BD-SD-GS	Skerries Goods Siding	17	1721	18	163
Connolly to Border	IN-CY2BD-SD-DMU2	Drogheda - DMU Depot 2	31	783	31	1350
Connolly to Border	IN-CY2BD-SD-DMU1	Drogheda - DMU Depot 1	31	787	31	1317
Connolly to Border	IN-CY2BD-SD-DMU4	Drogheda - DMU Depot Siding 4	31	882	31	1303
Connolly to Border	IN-CY2BD-SD-SS1	Drogheda - DMU Service Siding 1	31	1003	31	1370
Connolly to Border	IN-CY2BD-SD-DMU3	Drogheda - DMU Depot 3	31	882	31	1303
Connolly to Border	IN-CY2BD-SD-R7A	Drogheda - Road 7A	31	933	31	1209
Connolly to Border	IN-CY2BD-SD-WL	Drogheda - Wheel Lathe Siding	31	1081	31	1370
Connolly to Border	IN-CY2BD-SD-R7	Drogheda - Road 7	31	1036	31	1461
Connolly to Border	IN-CY2BD-SD-SS2	Drogheda - DMU Service Siding 2	31	1071	31	1376

Connolly to Border	IN-CY2BD-SD-GC1	Dundalk - Gantry Crane Siding 1	53	1594	54	554
Connolly to Border	IN-CY2BD-SD-GC2	Dundalk - Gantry Crane Siding 2	53	1597	54	316
Connolly to Border	IN-CY2BD-SD-CF	Dundalk Cement&Fertiliser storage	54	142	54	395
Connolly to Border	IN-CY2BD-SD-D1	Dundalk Siding 1	54	624	54	1037
Connolly to Border	IN-CY2BD-SD-D2	Dundalk Siding 2	54	704	54	1094
Connolly to Border	IN-CY2BD-SD-D3	Dundalk Siding 3	54	742	54	1097
Connolly to Border	IN-CY2BD-SD-D4	Dundalk Siding 4	54	776	54	1098
Connolly to Suburban Jctn	IN-CY2BJ-SD-CS1	Connolly - Carriage Siding 1	0	271	0	420
Connolly to Suburban Jctn	IN-CY2BJ-SD-CS2	Connolly - Carriage Siding 2	0	270	0	640
Cork to Cobh	IN-CK2CH-SD-DS	Cork - Down Siding (beside Platform 1)	165	627	165	1028
Cork to Cobh	IN-CK2CH-SD-CS2	Cork - Carriage Shed Siding 2	165	715	165	934
Cork to Cobh	IN-CK2CH-SD-CS1	Cork - Carriage Shed Siding 1	165	717	165	867
Cork to Cobh	IN-CK2CH-SD-SS	Cork - Storage Siding	165	938	165	1112
Cork to Cobh	IN-CK2CH-SD-NEG1	North Esk Gantry Siding 1 (Disconnected)	168	1342	169	110
Cork to Cobh	IN-CK2CH-SD-NEF	North Esk Fertiliser Sdg (Disconnected)	168	1355	169	494
Cork to Cobh	IN-CK2CH-SD-NEG3	North Esk Gantry Siding 3 (Disconnected)	168	1407	169	169
Cork to Cobh	IN-CK2CH-SD-NEG2	North Esk Gantry Siding 2 (Disconnected)	168	1458	169	40
Cork to Cobh	IN-CK2CH-SD-NEG4	North Esk Gantry Siding 4 (Disconnected)	168	1459	169	48
Drogheda to Tara Mines	IN-DA2TM-SD-SS	Drogheda Loop Run-off	0	90	0	156
Drogheda to Tara Mines	IN-DA2TM-SD-S1	Platin - Siding 1	2	1330	3	503
Drogheda to Tara Mines	IN-DA2TM-SD-S2	Platin - Siding 2	2	1436	3	351
Drogheda to Tara Mines	IN-DA2TM-SD-CL	Platin - Cement Loading Siding (machine siding)	3	180	3	443
Drogheda to Tara Mines	IN-DA2TM-SD-NS	Navan Siding - Scotched & Clipped	16	1262	16	1562
Drogheda to Tara Mines	IN-DA2TM-SD-TM1	Tara Mines Siding 1	18	86	18	642
Drogheda to Tara Mines	IN-DA2TM-SD-TM2	Tara Mines Siding 2	18	153	18	669
Ennis Junction to Athenry	IN-EJ2AT-SD-CT1	Ennis - Container Terminal Siding 1	24	743	24	1229
Ennis Junction to Athenry	IN-EJ2AT-SD-CT2	Ennis - Container Terminal Siding 2	24	851	24	1205
Ennis Junction to Athenry	IN-EJ2AT-SD-CS	Athenry - Cement Silo Siding	60	465	60	828
Glountaune to Youghal	IN-GE2YL-SD-TS	Youghal Turntable Siding	20	0	20	0

Glountaune to Youghal	IN-GE2YL-SD-S2	Youghal Siding 2	20	0	20	0
Glountaune to Youghal	IN-GE2YL-SD-S1	Youghal Siding 1	20	0	20	0
Glountaune to Youghal	IN-GE2YL-SD-LS	Youghal Loop Siding	20	0	20	0
Glountaune to Youghal	IN-GE2YL-SD-GS	Youghal Goods Siding	20	0	20	0
GSWR	IN-GS2WR-SD-NWR12	North Wall Yard - Road 12	4	1140	5	262
GSWR	IN-GS2WR-SD-NWR13	North Wall Yard - Road 13	4	1140	5	264
GSWR	IN-GS2WR-SD	Church Road - Alexandra Road Siding	4	1140	6	1738
GSWR	IN-GS2WR-SD-DS7	Dardenells Sidings 7	4	1514	5	114
GSWR	IN-GS2WR-SD-C3	Siding Crossing 3	4	1542	4	1632
GSWR	IN-GS2WR-SD-D7	Dardenells Sidings 6	4	1608	5	126
GSWR	IN-GS2WR-SD-NWR6	North Wall Yard - Road 6	4	1638	5	227
GSWR	IN-GS2WR-SD-DS2	Dardenells Sidings 2	4	1663	5	150
GSWR	IN-GS2WR-SD-NWR8	North Wall Yard - Road 8	4	1666	5	181
GSWR	IN-GS2WR-SD-NWR5	North Wall Yard - Road 5	4	1681	5	329
GSWR	IN-GS2WR-SD-ART	Alexandra Road Tramway	4	1687	5	1592
GSWR	IN-GS2WR-SD-NWR14	North Wall Yard - Road 14	4	1699	5	257
GSWR	IN-GS2WR-SD-NWR11	North Wall Yard - Road 11	4	1701	5	267
GSWR	IN-GS2WR-SD-NWR7	North Wall Yard - Road 7	4	1711	5	182
GSWR	IN-GS2WR-SD-NWR10	North Wall Yard - Road 10	4	1732	5	281
GSWR	IN-GS2WR-SD-NWR9	North Wall Yard - Road 9	4	1737	5	181
GSWR	IN-GS2WR-SD-DS5	Dardenells Sidings 5	5	45	5	247
GSWR	IN-GS2WR-SD-DS4	Dardenells Sidings 4	5	76	5	315
GSWR	IN-GS2WR-SD-DS1	Dardenells Sidings 1	5	109	5	285
GSWR	IN-GS2WR-SD-NWR2	North Wall Yard - Road 2	5	112	5	281
GSWR	IN-GS2WR-SD-NWR15	North Wall Yard - Road 15	5	115	5	257
GSWR	IN-GS2WR-SD-C5	Siding Crossing 5	5	155	5	222
GSWR	IN-GS2WR-SD-C4	Siding Crossing 4	5	225	5	278
GSWR	IN-GS2WR-SD-NWR3	North Wall Yard - Road 3	5	228	5	282
GSWR	IN-GS2WR-SD-NWR1	North Wall Yard - Road 1	5	228	5	313
GSWR	IN-GS2WR-SD-DS3	Dardenells Sidings 3	5	284	5	503
GSWR	IN-GS2WR-SD-LZ1	Lead & Zinc Concentrates Terminal-Road 1	5	602	5	837
GSWR	IN-GS2WR-SD-LZ2	Lead & Zinc Concentrates Terminal-Road 2	5	663	5	846
GSWR	IN-GS2WR-SD-IE1	IE Fuel Terminal Siding 1	5	1628	6	68

GSWR	IN-GS2WR-SD-IE2	IE Fuel Terminal Siding 2	5	1678	6	47
GSWR	IN-GS2WR-SD-FT1	Dublin Joint Fuels Terminal - Road 1	6	124	6	354
GSWR	IN-GS2WR-SD-FT2	Dublin Joint Fuels Terminal - Road 2	6	185	6	354
GSWR	IN-GS2WR-SD-IB	Irish Bitumen - Road 1	6	242	6	508
GSWR	IN-GS2WR-SD-IB1	Irish Bitumen - Road 2	6	254	6	522
GSWR	IN-GS2WR-SD-FP	Dublin Ferryport Terminal	6	300	6	628
GSWR	IN-GS2WR-SD-IB3	Irish Bitumen - Road 3	6	325	6	407
Heuston to Cork	IN-HN2CK-SD-CRS1	Inchicore - Loco Shed Siding 6	1	1425	1	1677
Heuston to Cork	IN-HN2CK-SD-TPS	Thurles - Platform Siding	86	875	86	1606
Heuston to Cork	IN-HN2CK-SD-RO	Limerick Jct - Run-off Siding	106	1685	107	35
Heuston to Cork	IN-HN2CK-SD-S1	Heuston - Station Siding 1	0	303	0	806
Heuston to Cork	IN-HN2CK-SD-S3	Heuston - Station Siding 3	0	349	0	868
Heuston to Cork	IN-HN2CK-SD-S2	Heuston - Station Siding 2	0	397	0	703
Heuston to Cork	IN-HN2CK-SD-S4	Heuston - Station Siding 4	0	462	0	674
Heuston to Cork	IN-HN2CK-SD-MS	Heuston - Machine Siding	0	465	0	651
Heuston to Cork	IN-HN2CK-SD-WR	Heuston - Wash Road	0	470	0	918
Heuston to Cork	IN-HN2CK-SD-VD2	Heuston - Valetting Depot Siding 2	0	503	0	891
Heuston to Cork	IN-HN2CK-SD-VD1	Heuston - Valetting Depot Siding 1	0	508	0	932
Heuston to Cork	IN-HN2CK-SD-1CS	Heuston - 1st Carriage Siding	0	530	0	1111
Heuston to Cork	IN-HN2CK-SD-2CS	Heuston - 2nd Carriage Siding	0	530	0	794
Heuston to Cork	IN-HN2CK-SD-HMOW2	Heuston - Maintenance of Way Siding 2	0	564	0	712
Heuston to Cork	IN-HN2CK-SD-HMOW1	Heuston - Maintenance of Way Siding 1	0	565	0	829
Heuston to Cork	IN-HN2CK-SD-G3	Heuston - Guinness Siding 3	0	573	0	763
Heuston to Cork	IN-HN2CK-SD-HR	Heuston - Holding Road	0	577	0	973
Heuston to Cork	IN-HN2CK-SD-G1	Heuston - Guinness Siding 1	0	593	0	912
Heuston to Cork	IN-HN2CK-SD-G2	Heuston - Guinness Siding 2	0	573	0	800
Heuston to Cork	IN-HN2CK-SD-HMOW3	Heuston - Maintenance of Way Siding 3	0	686	0	791
Heuston to Cork	IN-HN2CK-SD-SS	Heuston - Shunt Siding	0	1075	0	1108
Heuston to Cork	IN-HN2CK-SD-W1	Inchicore - Sawmill Road	1	1134	1	1615
Heuston to Cork	IN-HN2CK-SD-WS1	Inchicore - Diesel Siding	1	1209	1	1347
Heuston to Cork	IN-HN2CK-SD-2WS	Inchicore - Bank Road (to Wagon Shop)	1	1211	2	48

Heuston to Cork	IN-HN2CK-SD-RFS	Inchicore - Long Siding	1	1255	2	526
Heuston to Cork	IN-HN2CK-SD-RS1	Inchicore - Running Shed Siding 1	1	1255	1	1680
Heuston to Cork	IN-HN2CK-SD-DS1.4	Inchicore - Bogie Shop Siding 2	1	1272	1	1344
Heuston to Cork	IN-HN2CK-SD-BSS1	Inchicore - Bogie Shop Siding 1	1	1272	1	1462
Heuston to Cork	IN-HN2CK-SD-DS1.2	Inchicore - Bogie Shed Siding 4	1	1275	1	1510
Heuston to Cork	IN-HN2CK-SD-DS1.1	Inchicore - Wash Road	1	1280	1	1353
Heuston to Cork	IN-HN2CK-SD-RS3	Inchicore - Loco Shed Siding 3	1	1289	2	0
Heuston to Cork	IN-HN2CK-SD-2RS	Inchicore - Siding to Running Shed	1	1289	1	1417
Heuston to Cork	IN-HN2CK-SD-2T	Inchicore - Wagon Shop Siding	1	1292	1	1373
Heuston to Cork	IN-HN2CK-SD-T1	Inchicore - Traverser Siding 1	1	1306	1	1397
Heuston to Cork	IN-HN2CK-SD-T2	Inchicore - Traverser Siding 2	1	1323	1	1397
Heuston to Cork	IN-HN2CK-SD-SRS	Inchicore - Beside Short Siding	1	1324	1	1489
Heuston to Cork	IN-HN2CK-SD-ILS	Inchicore - Short Siding	1	1334	2	0
Heuston to Cork	IN-HN2CK-SD-T3	Inchicore - Traverser Siding 3	1	1337	1	1397
Heuston to Cork	IN-HN2CK-SD-RS2	Inchicore - Loco Shed Siding 2	1	1341	1	1715
Heuston to Cork	IN-HN2CK-SD-T4	Inchicore - Traverser Siding 4	1	1358	1	1397
Heuston to Cork	IN-HN2CK-SD-RS4	Inchicore - Loco Shed Siding 4	1	1376	1	1724
Heuston to Cork	IN-HN2CK-SD-DS1.3	Inchicore - Scrap Road 3	1	1381	1	1455
Heuston to Cork	IN-HN2CK-SD-SCR	Inchicore - Table Road	1	1412	1	1521
Heuston to Cork	IN-HN2CK-SD-CRS4	Inchicore - Loco Shed Siding 9	1	1420	1	1638
Heuston to Cork	IN-HN2CK-SD-CRS3	Inchicore - Loco Shed Siding 8	1	1422	1	1667
Heuston to Cork	IN-HN2CK-SD-CCS2	Inchicore - Loco Shed Siding 7	1	1423	1	1636
Heuston to Cork	IN-HN2CK-SD-2DS1	Inchicore - Yard Siding	1	1433	2	83
Heuston to Cork	IN-HN2CK-SD-IMR	Inchicore - Middle Road	1	1503	2	294
Heuston to Cork	IN-HN2CK-SD-2CCS	Inchicore - Straight Shop Siding	1	1510	2	314
Heuston to Cork	IN-HN2CK-SD-C	Inchicore - Siding Crossing	1	1524	1	1547
Heuston to Cork	IN-HN2CK-SD-SS3	Inchicore - Scrap Road 3	1	1531	1	1714
Heuston to Cork	IN-HN2CK-SD-PS	Inchicore - Paint Shop Road	1	1551	2	95
Heuston to Cork	IN-HN2CK-SD-DS2.4	Inchicore - Diesel Shed Siding 4	1	1552	1	1680
Heuston to Cork	IN-HN2CK-SD-DS2.1	Inchicore - towards Diesel Shed	1	1555	2	260
Heuston to Cork	IN-HN2CK-SD-W2	Inchicore - Diesel Shed Siding 3	1	1556	1	1753
Heuston to Cork	IN-HN2CK-SD-DS2.3	Inchicore - Diesel Shed Siding 1	1	1557	1	1714
Heuston to Cork	IN-HN2CK-SD-DS2.2	Inchicore - Diesel Shed Siding 2	1	1557	2	206
Heuston to Cork	IN-HN2CK-SD-WL1	Inchicore - Wheel Lathe Siding 1	1	1568	2	153
Heuston to Cork	IN-HN2CK-SD-WL2	Inchicore - Wheel Lathe Siding 2	1	1604	1	1743

Heuston to Cork	IN-HN2CK-SD-PS2	Inchicore - CSC Wash Road	1	1631	1	1750
Heuston to Cork	IN-HN2CK-SD-SS4	Inchicore - Smythy Siding	1	1631	2	4
Heuston to Cork	IN-HN2CK-SD-SS2	Inchicore - Scrap Road 2	1	1632	2	160
Heuston to Cork	IN-HN2CK-SD-CCS2.1	Inchicore - Coal Road	1	1634	2	186
Heuston to Cork	IN-HN2CK-SD-SS1	Inchicore - Scrap Siding 1	1	1636	2	125
Heuston to Cork	IN-HN2CK-SD-IPR	Inchicore - Pit Road	1	1637	2	223
Heuston to Cork	IN-HN2CK-SD-GR	Inchicore - German Road	1	1720	2	153
Heuston to Cork	IN-HN2CK-SD-SB1	Inchicore - Scrap Bank Siding 1 (Spend loves bank)	1	1726	2	275
Heuston to Cork	IN-HN2CK-SD-SB2	Inchicore - Scrap Bank Siding 2 (middle road)	1	1727	2	102
Heuston to Cork	IN-HN2CK-SD-IS5	Inchicore - 2nd Last Road	1	1756	2	128
Heuston to Cork	IN-HN2CK-SD-IS4	Inchicore - Last Road	1	1757	2	163
Heuston to Cork	IN-HN2CK-SD-2DS2	Inchicore - Siding to Diesel Shed	2	25	2	232
Heuston to Cork	IN-HN2CK-SD-AS	Inchicore - Atlas Shop Siding	2	27	2	194
Heuston to Cork	IN-HN2CK-SD-DSC1	Inchicore - Diesel Shed Crossover	2	48	2	78
Heuston to Cork	IN-HN2CK-SD-IS1	Inchicore - Shord Dock	2	11	2	258
Heuston to Cork	IN-HN2CK-SD-GS	Sallins & Naas Goods Siding	17	1355	17	1522
Heuston to Cork	IN-HN2CK-SD-KMOW2	Kildare - Mow Siding 2	30	90	30	209
Heuston to Cork	IN-HN2CK-SD-KMOW1	Kildare - MoW Siding 1	30	93	30	347
Heuston to Cork	IN-HN2CK-SD-SH2	Kildare - Shed Siding 2	30	145	30	276
Heuston to Cork	IN-HN2CK-SD-SH1	Kildare - Shed Siding 1	30	146	30	399
Heuston to Cork	IN-HN2CK-SD-ULRO	Portarlington - Up Loop Run-off	41	173	41	235
Heuston to Cork	IN-HN2CK-SD-LS	Loop Siding	41	626	41	1034
Heuston to Cork	IN-HN2CK-SD-DMS	Portarlington - Down Machine Siding	41	661	41	1059
Heuston to Cork	IN-HN2CK-SD-LRO1	Portlaoise Traincare Depot Lp Run-off 1	52	78	52	152
Heuston to Cork	IN-HN2CK-SD-PDR12	Portlaoise Traincare Depot Road 12	52	183	52	489
Heuston to Cork	IN-HN2CK-SD-PDR13	Portlaoise Traincare Depot Road 13	52	186	52	530
Heuston to Cork	IN-HN2CK-SD-PDR14	Portlaoise Traincare Depot Road 14	52	187	52	574
Heuston to Cork	IN-HN2CK-SD-PDR15	Portlaoise Traincare Depot Road 15	52	187	52	614
Heuston to Cork	IN-HN2CK-SD-PDR2	Portlaoise Traincare Depot Road 2	52	419	52	994
Heuston to Cork	IN-HN2CK-SD-LRO2	Portlaoise Traincare Depot Lp Run-off 2	52	455	52	530
Heuston to Cork	IN-HN2CK-SD-PDR11	Portlaoise Traincare Depot Road 11	52	542	52	947

Heuston to Cork	IN-HN2CK-SD-PDR1	Portlaoise Traincare Depot Wheel Lathe	52	580	52	1227
Heuston to Cork	IN-HN2CK-SD-PDR3	Portlaoise Traincare Depot Road 3	52	596	52	1242
Heuston to Cork	IN-HN2CK-SD-PDR10	Portlaoise Traincare Depot Road 10	52	634	52	1149
Heuston to Cork	IN-HN2CK-SD-PDR7	Portlaoise Traincare Depot Road 7	52	680	52	1089
Heuston to Cork	IN-HN2CK-SD-PDR8	Portlaoise Traincare Depot Road 8	52	710	52	1091
Heuston to Cork	IN-HN2CK-SD-PDR4	Portlaoise Traincare Depot Road 4	52	710	52	1165
Heuston to Cork	IN-HN2CK-SD-PDR9	Portlaoise Traincare Depot Road 9	52	746	52	1093
Heuston to Cork	IN-HN2CK-SD-PDR6	Portlaoise Traincare Depot Road 6	52	754	52	1166
Heuston to Cork	IN-HN2CK-SD-PDR6B	Portlaoise Traincare Depot Road 6B	52	805	52	1169
Heuston to Cork	IN-HN2CK-SD-PDR5	Portlaoise Traincare Depot Road 5	52	810	52	1166
Heuston to Cork	IN-HN2CK-SD-PDR6A	Portlaoise Traincare Depot Road 6A	52	843	52	1168
Heuston to Cork	IN-HN2CK-SD-BS	Portlaoise Traincare Depot Bogie Storage	52	920	52	1148
Heuston to Cork	IN-HN2CK-SD-LLS	Lisduff - Long Siding	72	777	72	1498
Heuston to Cork	IN-HN2CK-SD-LSS	Lisduff - Short Siding	72	975	72	1360
Heuston to Cork	IN-HN2CK-SD-LMS	Lisduff - Machine Siding	72	1280	72	1434
Heuston to Cork	IN-HN2CK-SD-TS	Thurles - Tanks Siding	86	989	86	1148
Heuston to Cork	IN-HN2CK-SD-C3	Thurles - Crossing to Platform 3	86	1140	86	1213
Heuston to Cork	IN-HN2CK-SD-TSGS	Thurles - Goods Siding 2	86	1151	86	1248
Heuston to Cork	IN-HN2CK-SD-LGS	Thurles - Goods Siding 1	86	1165	86	1341
Heuston to Cork	IN-HN2CK-SD-SR1	Limerick Jct - Shed Road 1	106	1320	106	1507
Heuston to Cork	IN-HN2CK-SD-SR2	Limerick Jct - Shed Road 2	106	1320	106	1545
Heuston to Cork	IN-HN2CK-SD-OS	Limerick Jct - Over Seven	106	1270	106	1716
Heuston to Cork	IN-HN2CK-SD-CB	Limerick Jct - Coal Bank	106	1320	106	1585
Heuston to Cork	IN-HN2CK-SD-SP3	Limerick Jct - Shunting Siding for Platf	106	1447	106	1629
Heuston to Cork	IN-HN2CK-SD-WS	Limerick Jct - Walshes Siding	106	1637	107	465
Heuston to Cork	IN-HN2CK-SD-USC	Charleville - Up Siding	129	463	129	1068
Heuston to Cork	IN-HN2CK-SD-SSC	Charleville - Shunt Siding	129	656	129	806
Heuston to Cork	IN-HN2CK-SD-LUS	Mallow - Long Up Siding	144	52	144	905
Heuston to Cork	IN-HN2CK-SD-DS1	Mallow - Down Siding 1	144	260	144	656
Heuston to Cork	IN-HN2CK-SD-DS2	Mallow - Down Siding 2	144	297	144	543
Heuston to Cork	IN-HN2CK-SD-US	Mallow - Up Siding	144	484	144	849
Heuston to Cork	IN-HN2CK-SD-R1	Rathpeacon Siding 1 (Disconnected)	161	586	161	1048
Heuston to Cork	IN-HN2CK-SD-R2	Rathpeacon Siding 2 (Disconnected)	161	748	161	1048

Heuston to Cork	IN-HN2CK-SD-R3	Rathpeacon Siding 3 (Disconnected)	161	777	161	1053
Heuston to Cork	IN-HN2CK-SD-TH	Cork - Through Siding	165	369	165	1016
Heuston to Cork	IN-HN2CK-SD-SST	Cork - Short Siding from tunnel	165	375	165	428
Heuston to Cork	IN-HN2CK-SD-HQ2	Cork - Horgan's Quay Siding 2	165	396	165	1124
Heuston to Cork	IN-HN2CK-SD-HQ1	Cork - Horgan's Quay Siding 1	165	414	165	1069
Heuston to Cork	IN-HN2CK-SD-LCSS	Cork - Long Cement Silo Siding	165	483	165	1154
Heuston to Cork	IN-HN2CK-SD-CLS2	Cork - Loco Shed Siding 2	165	578	165	1050
Heuston to Cork	IN-HN2CK-SD-CLS1	Cork - Loco Shed Siding 1	165	604	165	1101
Heuston to Cork	IN-HN2CK-SD-GD	Cork - Siding to Horgan's Quay	165	643	165	821
Heuston to Cork	IN-HN2CK-SD-CLS3	Cork - Loco Shed Siding 3	165	652	165	1035
Heuston to Cork	IN-HN2CK-SD-CLS4	Cork - Loco Shed Siding 4	165	680	165	1034
Heuston to Cork	IN-HN2CK-SD-CS1	Cork - Cement Silo Siding	165	729	165	1026
Heuston to Cork	IN-HN2CK-SD-CLS6	Cork - Loco Shed Siding 6	165	805	165	1034
Heuston to Cork	IN-HN2CK-SD-CLS5	Cork - Loco Shed Siding 5	165	844	165	1034
Heuston to Cork	IN-HN2CK-SD-CLS7	Cork - Loco Shed Siding 7	165	874	165	1034
Heuston to Cork	IN-HN2CK-SD-HQ3	Cork - Horgan's Quay Siding 3	165	1041	165	1123
Howth Junction to Howth	IN-HJ2HT-SD-RO	Howth Jct Run off	0	41	0	90
Kilkenny to Waterford	IN-KK2WW-SD-SY1	Kilkenny - Up Siding	28	490	28	825
Kilkenny to Waterford	IN-KK2WW-SD-F	Kilkenny - Fertiliser Siding	28	734	28	948
Kilkenny to Waterford	IN-KK2WW-SD-ST	Kilkenny - Storage Siding	28	1001	28	1476
Kilkenny to Waterford	IN-KK2WW-SD-DD	Ballyhale Dry Dock	43	668	43	858
Killarney to Tralee	IN-KL2TL-SD-S1	Tralee - Siding 1	61	326	61	923
Killarney to Tralee	IN-KL2TL-SD-S3	Tralee - Siding 3	61	401	61	568
Killarney to Tralee	IN-KL2TL-SD-CT1	Tralee - Container Terminal Siding 1	61	459	61	740
Killarney to Tralee	IN-KL2TL-SD-S2	Tralee - Siding 2	61	466	61	910
Killarney to Tralee	IN-KL2TL-SD-CT2	Tralee - Container Terminal Siding 2	61	494	61	792
Killarney to Tralee	IN-KL2TL-SD-LS	Tralee - Loco Shed Siding	61	647	61	723
Killarney to Tralee	IN-KL2TL-SD-TS	Tralee - Turntable Siding	61	682	61	781
Kilmacthomas to Waterford West	IN-KM2WW-SR	Ballinacourty Branch	59	396	74	992
Limerick to Cement Factory	IN-LC2CF-SD-C2	Cement Factory - Shale Siding Crossing	2	89	2	114
Limerick to Cement Factory	IN-LC2CF-SD-S2	Cement Factory - Shale Siding 2	2	309	2	661
Limerick to Cement Factory	IN-LC2CF-SD-S1	Cement Factory - Shale Siding 1	2	317	2	591
Limerick to Cement Factory	IN-LC2CF-SD-LS	Cement Factory - Long Siding	2	1250	2	1649

Limerick to Cement Factory	IN-LC2CF-SD-CS1	Cement Factory - Cement Store Siding 1	2	1284	3	143
Limerick to Cement Factory	IN-LC2CF-SD-CS2	Cement Factory - Cement Store Siding 2	2	1321	2	1714
Limerick to Cement Factory	IN-LC2CF-SD-CS3	Cement Factory - Cement Store Siding 3	2	1355	2	1695
Limerick to Cement Factory	IN-LC2CF-SD-G1	Cement Factory - Gypsum Siding 1	2	1416	2	1746
Limerick to Cement Factory	IN-LC2CF-SD-CSS1	Cement Factory - Cement Silo Siding 1	2	1426	3	439
Limerick to Cement Factory	IN-LC2CF-SD-O1	Cement Factory - Oil Siding 1	2	1462	3	8
Limerick to Cement Factory	IN-LC2CF-SD-CSS3	Cement Factory - Cement Factory - Cement	2	1559	3	431
Limerick to Cement Factory	IN-LC2CF-SD-CSS2	Cement Factory - Cement Silo Siding 2	2	1595	3	153
Limerick to Cement Factory	IN-LC2CF-SD-O2	Cement Factory - Oil Siding 2	2	1619	3	9
Limerick to Cement Factory	IN-LC2CF-SD-G2	Cement Factory - Gypsum Siding 2	2	1627	2	1739
Limerick to Cement Factory	IN-LC2CF-SD-CS4	Cement Factory - Cement Store Siding 4	3	59	3	149
Limerick to Cement Factory	IN-LC2CF-SD-C1	Cement Factory - Cement Store Siding Cro	3	105	3	125
Limerick to Waterford	IN-LK2WW-SD-MD	Limerick - Main Down Siding	0	6	0	1178
Limerick to Waterford	IN-LK2WW-SD-CT1	Limerick - Container Terminal Siding	0	25	0	223
Limerick to Waterford	IN-LK2WW-SD-FD	Limerick - Tobin's Road Siding	0	220	0	888
Limerick to Waterford	IN-LK2WW-SD-2DMS	Limerick - Down Rd to Down Main Siding	0	239	0	386
Limerick to Waterford	IN-LK2WW-SD-DS	Limerick - Down Siding 2	0	390	0	1453
Limerick to Waterford	IN-LK2WW-SD-CW	Limerick - Carriage Washer Siding	0	540	0	1041
Limerick to Waterford	IN-LK2WW-SD-T1	Limerick - Tank Siding	0	552	0	752
Limerick to Waterford	IN-LK2WW-SD-LS2	Limerick - Loco Shed Siding 2	0	571	0	827
Limerick to Waterford	IN-LK2WW-SD-LS1	Limerick - Loco Shed Siding 1	0	571	0	788
Limerick to Waterford	IN-LK2WW-SD-LS3	Limerick - Loco Shed Siding 3	0	599	0	720
Limerick to Waterford	IN-LK2WW-SD-SC	Limerick - Siding Crossing	0	611	0	665
Limerick to Waterford	IN-LK2WW-SD-BWW	Limerick - Siding by Wagon Works	0	629	0	754
Limerick to Waterford	IN-LK2WW-SD-WW3	Limerick - Wagon Works Siding 3	0	630	0	747
Limerick to Waterford	IN-LK2WW-SD-WW2	Limerick - Wagon Works Siding 2	0	630	0	875
Limerick to Waterford	IN-LK2WW-SD-WW1	Limerick - Wagon Works Siding 1	0	630	0	839

Limerick to Waterford	IN-LK2WW-SD-D1	Limerick - Down Siding 1	0	671	0	926
Limerick to Waterford	IN-LK2WW-SD-US	Limerick - Up Siding	0	959	0	1186
Limerick to Waterford	IN-LK2WW-SD-DN	Dromkeen Siding	11	111	11	551
Limerick to Waterford	IN-LK2WW-SD-TY1	Tipperary Siding 1	24	894	24	1157
Limerick to Waterford	IN-LK2WW-SD-TY2	Tipperary Siding 2	24	1175	24	1446
Limerick to Waterford	IN-LK2WW-SD-CS1	Clonmel Up Siding	49	672	49	1196
Limerick to Waterford	IN-LK2WW-SD-CS2	Clonmel Down Siding	49	715	49	1219
Mallow to Killarney	IN-MW2KL-SD-MOW1	Mallow MoW Siding 1 (Disconnected)	1	193	1	1033
Mallow to Killarney	IN-MW2KL-SD-BF1	Mallow Beet Factory Siding 1 (Disconnect	1	491	1	1308
Mallow to Killarney	IN-MW2KL-SD-MOW2	Mallow MoW Siding 2 (Disconnected)	1	655	1	1177
Mallow to Killarney	IN-MW2KL-SD-BF2	Mallow Beet Factory Siding 2 (Disconnect	1	901	1	1238
Mallow to Killarney	IN-MW2KL-SD-BT	Banteer Siding	10	876	10	1171
Mallow to Killarney	IN-MW2KL-SD-RE	Rathmore Siding	25	393	25	678
Mallow to Killarney	IN-MW2KL-SD-S	Killarney - Headshunt Siding	39	575	39	1023
Mallow to Killarney	IN-MW2KL-SD-K1	Killarney Siding 1	39	1090	39	1498
Mallow to Killarney	IN-MW2KL-SD-K2	Killarney Siding 2	39	1144	39	1435
Manulla Junction to Ballina	IN-MJ2BA-SD-BLS	Ballina Loop Siding	166	78	166	337
Manulla Junction to Ballina	IN-MJ2BA-SD-BS1	Ballina Station Siding 1	166	413	166	972
Manulla Junction to Ballina	IN-MJ2BA-SD-CM	Ballina - Crossmolina Siding	166	1001	166	1469
Manulla Junction to Ballina	IN-MJ2BA-SD-BS2	Ballina Station Siding 2	166	1409	167	102
Mullingar to Galway	IN-MR2GY-SR-27	MR2GY-SR (Mullingar - 52mp)	50	210	52	0
Mullingar to Galway	IN-MR2GY-SD-LS	Mullingar - Long Trackside Siding	50	419	51	364
Mullingar to Galway	IN-MR2GY-SD-MCS	Mullingar Canal Siding	50	580	50	1026
Mullingar to Galway	IN-MR2GY-SD-MLS2	Mullingar - Loco Shed Siding 2	50	584	50	843
Mullingar to Galway	IN-MR2GY-SD-MLS1	Mullingar - Loco Shed Siding 1	50	643	50	1004
Mullingar to Galway	IN-MR2GY-SD-Y3	Mullingar Yard Siding 3	50	676	50	881
Mullingar to Galway	IN-MR2GY-SD-Y2	Mullingar Yard Siding 2	50	678	50	917
Mullingar to Galway	IN-MR2GY-SD-Y1	Mullingar Yard Siding 1	50	733	50	892
Mullingar to Galway	IN-MR2GY-SD-MTS	Mullingar - Turntable Spur	50	797	50	866
Mullingar to Galway	IN-MR2GY-SD-TSD	Mullingar - Turntable Siding	50	833	50	1006
Mullingar to Galway	IN-MR2GY-SD-C	Mullingar - Crossing to Turntable	50	903	50	932
Mullingar to Galway	IN-MR2GY-SD-2GC	Mullingar - Siding to Gantry Cranes	50	958	50	1110
Mullingar to Galway	IN-MR2GY-SD-G2	Mullingar - Gantry Siding 1	50	1064	50	1583
Mullingar to Galway	IN-MR2GY-SD-G4	Mullingar - Gantry Siding 4	50	1130	50	1520

Mullingar to Galway	IN-MR2GY-SD-G3	Mullingar - Gantry Siding 3	50	1162	50	1499
Mullingar to Galway	IN-MR2GY-SD-G1	Mullingar - Gantry Siding 2	50	1196	50	1505
Mullingar to Galway	IN-MR2GY-SD-MS	Moate Siding	68	594	68	921
Mullingar to Galway	IN-MR2GY-SD-AMS	Athlone Midland Siding (Disconnected)	78	112	78	260
Mullingar to Galway	IN-MR2GY-SD-ALS2	Athlone Midland Loco SD 2 (Disconnected)	78	114	78	403
Mullingar to Galway	IN-MR2GY-SD-ALS1	Athlone Midland Loco SD 1 (Disconnected)	78	147	78	403
Mullingar to Galway	IN-MR2GY-SD-BCS	Ballinasloe - Cement Siding	91	1556	92	327
Mullingar to Galway	IN-MR2GY-SD-DS1	Athenry - Disconnected Siding	113	1412	113	1549
Mullingar to Galway	IN-MR2GY-SD-FY	Galway - Freight Yard Siding	126	666	126	868
Mullingar to Galway	IN-MR2GY-SD-GTS	Galway - Tanks Siding	126	707	126	895
Mullingar to Galway	IN-MR2GY-SD-DS2	Galway - Disconnected Siding	126	717	126	843
Mullingar to Galway	IN-MR2GY-SD-GLS1	Galway - Disconnected Loco Shed Siding 1	126	720	126	830
Mullingar to Galway	IN-MR2GY-SD-DTS	Galway - Disconnected Turntable Siding	126	756	126	817
Mullingar to Galway	IN-MR2GY-SD-GLS2	Galway - Disconnected Loco Shed Siding 2	126	791	126	831
Mullingar to Galway	IN-MR2GY-SD-SS	Galway - Station Siding	126	793	126	866
Mullingar to Galway	IN-MR2GY-SD-GCS	Galway - Carriage Siding	126	908	126	971
Pearse to Shanganagh Jct	IN-PS2SJ-SD-WR	Pearse - Wash Road	0	210	0	450
Pearse to Shanganagh Jct	IN-PS2SJ-BY-P3	Pearse - Loop run-off	0	227	0	308
Pearse to Shanganagh Jct	IN-PS2SJ-SD-US	Pearse to Grand Canal Dock Up Siding	0	385	0	800
Pearse to Shanganagh Jct	IN-PS2SJ-SD-S	Shunt Siding (GCD)	0	786	0	828
Pearse to Shanganagh Jct	IN-PS2SJ-SD-NES3	Dun Laoghaire - Non-electrified Siding	5	1433	5	1574
Pearse to Shanganagh Jct	IN-PS2SJ-SD-NES2	Dun Laoghaire - Non-electrified Siding 2	5	1456	5	1582
Portarlinton to Athlone	IN-PN2AE-SD-CS	Tullamore - Cement Store Siding	57	1356	57	1759
Portarlinton to Athlone	IN-PN2AE-SD-SW	Tullamore - Shunt Siding West	57	1417	57	1519
Portarlinton to Athlone	IN-PN2AE-SD-SE	Tullamore - Shunt Siding East	57	1634	57	1696
Portarlinton to Athlone	IN-PN2AE-SD-CN	Clonydonnin Siding	72	1355	72	1750
Portarlinton to Athlone	IN-PN2AE-SD-GS	Athlone - Guinness Siding	80	1009	80	1405

Shanganagh Jct to Wexford	IN-SJ2WX-SD-BS	Bray - Bay Platform Siding	12	259	12	526
Shanganagh Jct to Wexford	IN-SJ2WX-SD-D1	Bray - Down Siding 1	12	437	12	776
Shanganagh Jct to Wexford	IN-SJ2WX-SD-D2	Bray - Down Siding 2	12	540	12	776
Shanganagh Jct to Wexford	IN-SJ2WX-SD-UP	Bray - Up Siding	12	545	12	753
Shanganagh Jct to Wexford	IN-SJ2WX-SD-WS1	Bray - Wicklow Siding 1	12	824	12	1165
Shanganagh Jct to Wexford	IN-SJ2WX-SD-WS2	Bray - Wicklow Siding 2	12	888	12	1176
Shanganagh Jct to Wexford	IN-SJ2WX-SD-WS3	Bray - Wicklow Siding 3	12	923	12	1074
Shanganagh Jct to Wexford	IN-SJ2WX-SD-GD2	Greystones - Down Siding 2	17	18	17	112
Shanganagh Jct to Wexford	IN-SJ2WX-SD-GD1	Greystones - Down Siding 1	17	19	17	179
Shanganagh Jct to Wexford	IN-SJ2WX-SD-MRS	Greystones - Mill Rd Siding	17	146	17	476
Shanganagh Jct to Wexford	IN-SJ2WX-SD-LS	Wicklow - Loop Siding	28	173	28	325
Shanganagh Jct to Wexford	IN-SJ2WX-SD-W1	Rathdrum - Wood Siding 1	37	598	37	710
Shanganagh Jct to Wexford	IN-SJ2WX-SD-SS1	Arklow - Station Siding	49	84	49	198
Shanganagh Jct to Wexford	IN-SJ2WX-SD-GR	Gorey Siding	59	565	59	858
Shanganagh Jct to Wexford	IN-SJ2WX-SD-GP1	Enniscorthy - Goods Siding 1	77	296	77	739
Shanganagh Jct to Wexford	IN-SJ2WX-SD-GP2	Enniscorthy - Goods Siding 2	77	678	77	886
Shanganagh Jct to Wexford	IN-SJ2WX-SD-WY1	Wexford - Yard Siding 1	92	848	92	1263
Shanganagh Jct to Wexford	IN-SJ2WX-SD-WY2	Wexford - Yard Siding 2	92	921	92	1395
Shanganagh Jct to Wexford	IN-SJ2WX-SD-WY3	Wexford - Yard Siding 3	92	1069	92	1432
Silvermines Branch	IN-SM2SM-SD-SS	Silvermines Siding - Disconnected	0	0	1	250
Silvermines Branch	IN-SM2SM-SD-S3	Silvermines Siding 3 - Disconnected	0	1379	1	192
Silvermines Branch	IN-SM2SM-SD-C1	Silvermines Siding Xng 1 - Disconnected	0	1603	0	1646
Silvermines Branch	IN-SM2SM-SD-S2	Silvermines Siding 2 - Disconnected	0	1677	1	203
Silvermines Branch	IN-SM2SM-SD-S1	Silvermines Siding 1 - Disconnected	0	1707	1	190
Silvermines Branch	IN-SM2SM-SD-C2	Silvermines Siding Xing 2 - Disconnected	0	1719	0	1742
Sligo Quay	IN-SQ2SQ-SD-QS	Sligo Quay - Siding	134	197	134	1075
Sligo Quay	IN-SQ2SQ-SD-CT	Sligo Quay - Cement Terminal	134	537	134	880
Sligo Quay	IN-SQ2SQ-SD-G	Sligo Quay - Guinness Siding	134	664	134	1077
Sligo Quay	IN-SQ2SQ-SD-O	Sligo Quay - Oil Siding	134	793	134	1001
Sligo Quay	IN-SQ2SQ-SD-GC1	Sligo Quay - Gantry Crane Siding 1	134	811	134	1053
Sligo Quay	IN-SQ2SQ-SD-GC2	Sligo Quay - Gantry Crane Siding 2	134	835	134	1066
Tara Junction to Kingscourt	IN-TJ2KT-SD-KT	Kingscourt Siding	50	665	50	854
Tegral Sidings (Athy)	IN-TS2TS-SD-T1	Tegral Siding	0	0	0	540
Tegral Sidings (Athy)	IN-TS2TS-SD-TS2	Tegral Siding 2	0	75	0	248

Tegral Sidings (Athy)	IN-TS2TS-SD-TS3	Tegral Siding 3	0	121	0	248
Waterford to Rosslare Europort	IN-WW2RO-SD-CT1	Waterford - Container Terminal Siding 1	75	54	75	862
Waterford to Rosslare Europort	IN-WW2RO-SD-FD1	Waterford - Freight Depot Siding 1	75	225	75	669
Waterford to Rosslare Europort	IN-WW2RO-SD-GS1	Waterford - Good Shed Siding 1	75	258	75	780
Waterford to Rosslare Europort	IN-WW2RO-SD-GC	Waterford - Gantry Crane Siding	75	324	75	919
Waterford to Rosslare Europort	IN-WW2RO-SD-FD3	Waterford - Freight Depot Siding 3	75	340	75	629
Waterford to Rosslare Europort	IN-WW2RO-SD-FD2	Waterford - Freight Depot Siding 2	75	378	75	669
Waterford to Rosslare Europort	IN-WW2RO-SD-GS2	Waterford - Good Shed Siding 2	75	384	75	752
Waterford to Rosslare Europort	IN-WW2RO-SD-CT3	Waterford - Container Terminal Siding 3	75	389	75	794
Waterford to Rosslare Europort	IN-WW2RO-SD-CT2	Waterford - Container Terminal Siding 2	75	430	75	766
Waterford to Rosslare Europort	IN-WW2RO-SD-BV1	Belview Siding 1	79	1329	80	465
Waterford to Rosslare Europort	IN-WW2RO-SD-BV3	Belview Siding 3	79	1427	80	351
Waterford to Rosslare Europort	IN-WW2RO-SD-BV2	Belview Siding 2	79	1461	80	386
Waterford to Rosslare Europort	IN-WW2RO-SD-BV4	Belview Siding 4	79	1474	80	426
Waterford to Rosslare Europort	IN-WW2RO-SD-WHS	Wellingtonbridge - Head Shunt	93	356	93	433
Waterford to Rosslare Europort	IN-WW2RO-SD-GS	Wellingtonbridge - Goods Siding	93	367	93	723
Waterford to Rosslare Europort	IN-WW2RO-SD-BS	Wellingtonbridge - Beet Siding	93	370	93	645
Waterford to Rosslare Europort	IN-WW2RO-SD-RO	Rosslare Europort Siding	113	1265	113	1374
Waterford to Rosslare Europort	IN-WW2RO-SD-ROHS	Rosslare Europort - Head Shunt	113	1560	113	1630

Appendix 9

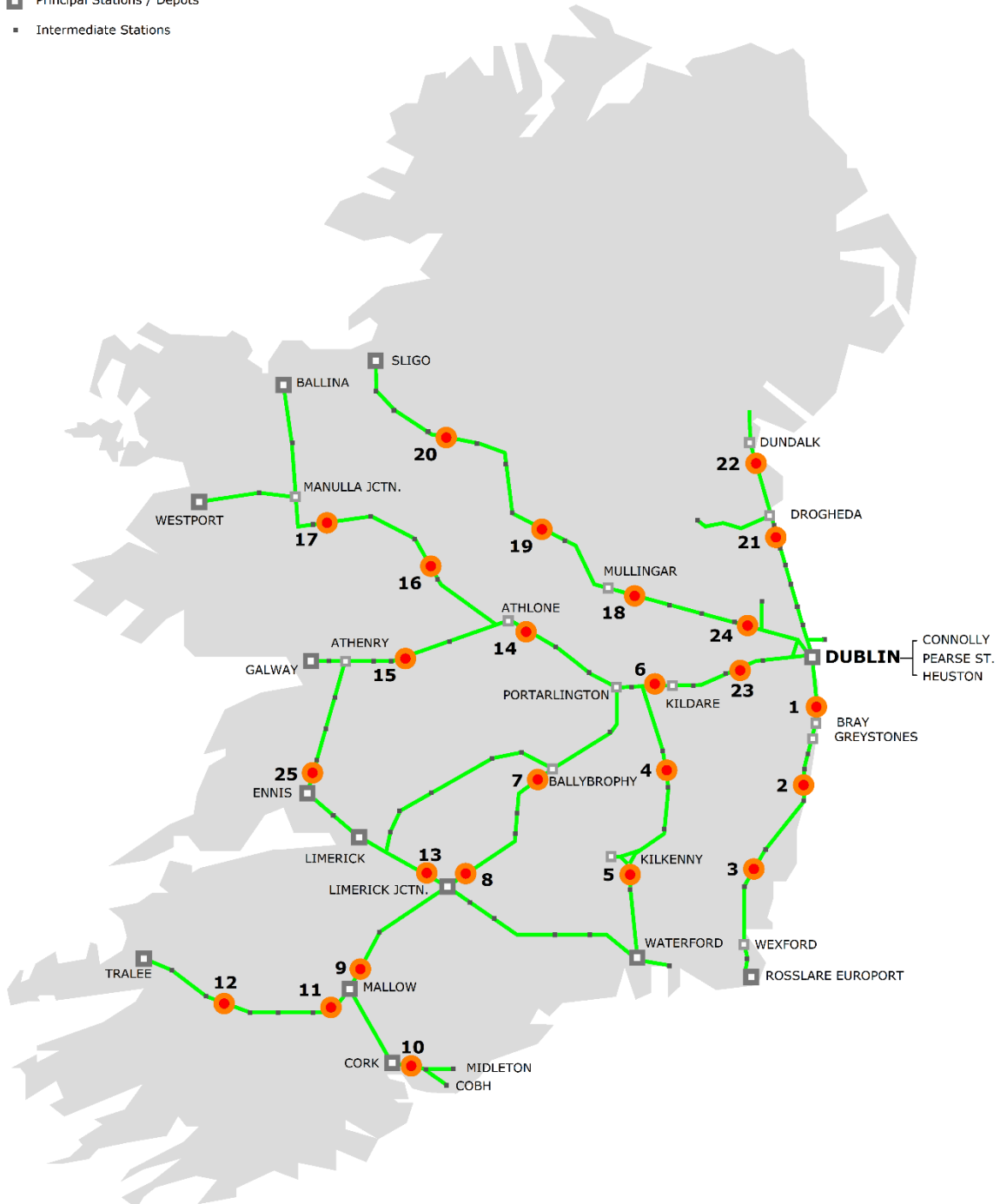
Hot Axle Box Detector Locations



Version 1.0 August 2020

LEGEND

- Hot Axle Box Detector Location
- Principal Stations / Depots
- Intermediate Stations



Appendix 9

IÉ NETWORK - HOT AXLE BOX DETECTORS (HABD)

DUBLIN - WEXFORD

- | | |
|---|---|
| 1 | Location: Woodbrook
Milepost: 11 miles
HABD Monitoring: Down Line |
| 2 | Location: Ballymanus Level Crossing
Milepost: 32 miles, 1200 yards
HABD Monitoring: Single Line |
| 3 | Location: Camolin
Milepost: 67 miles, 120 yds
HABD Monitoring: Single Line |

CHERRYVILLE JCTN - WATERFORD

- | | |
|---|--|
| 4 | Location: 51 Mile Post
Milepost: 51 miles
HABD Monitoring: Single Line |
| 5 | Location: Thomastown
Milepost: 37 miles
HABD Monitoring: Single Line |

DUBLIN - CORK

- | | |
|----|--|
| 23 | Location: Straffan
Milepost: 14 miles
HABD Monitoring: Up & Down Lines |
| 6 | Location: Cherryville Junction
Milepost: 31 miles
HABD Monitoring: Up & Down Lines |
| 7 | Location: Ballybrophy
Milepost: 68 ¹ / ₂ miles
HABD Monitoring: Up & Down Lines |
| 8 | Location: Limerick Junction
Milepost: 103 ³ / ₄ miles
HABD Monitoring: Up & Down Lines |
| 9 | Location: Mallow
Milepost: 141 miles
HABD Monitoring: Up & Down Lines |

CORK - COBH

- | | |
|----|---|
| 10 | Location: Tivoli
Milepost: 167 miles
HABD Monitoring: Up Line |
|----|---|

MALLOW - TRALEE

- | | |
|----|--|
| 11 | Location: Gortmore No. 2 LC
Milepost: 7 ¹ / ₄ miles
HABD Monitoring: Single Line |
| 12 | Location: Freemount LC
Milepost: 28 miles, 112 yards
HABD Monitoring: Single Line |

LIMERICK - WATERFORD

13 Location: Oola
Milepost: 19 miles
HABD Monitoring: Single Line

PORTARLINGTON - GALWAY

14 Location: Athlone Milepost: 76¼ miles
HABD Monitoring: Single Line

15 Location: Woodlawn
Milepost: 98 miles
HABD Monitoring: Single Line

ATHLONE - WESTPORT

16 Location: Fuerty LC
Milepost: 99 miles
HABD Monitoring: Single Line

17 Location: Garryredmond LC
Milepost: 131 miles
HABD Monitoring: Single Line

DUBLIN - SLIGO

24 Location: Porterstown
Milepost: 6¼ miles
HABD Monitoring: Up Line

18 Location: Hill of Down
Milepost: 35½ miles
HABD Monitoring: Single Line

19 Location: Clonahard LC
Milepost: 72½ miles
HABD Monitoring: Single Line

20 Location: 102 Radio Site
Milepost: 102 miles
HABD Monitoring: Single Line

DUBLIN - BORDER

21 Location: Drogheda
Milepost: 28 miles, 1460 yards
HABD Monitoring: Up & Down Lines

22 Location: Dundalk
Milepost: 52 miles, 200 yards
HABD Monitoring: Up & Down Lines

LIMERICK - ATHENRY

25 Location: Crusheen
Milepost: 33½ miles
HABD Monitoring: Single Line

Appendix 11 Model Access Contract

DATED 20[]

(1) []
(the “**Railway Undertaking**” or “**RU**”)
and

(2) **INFRASTRUCTURE MANAGER**
 (“**IM**”)
and

(3) **CÓRAS IOMPAIR ÉIREANN**
 (“**CIE**”)

GENERAL TERMS AND CONDITIONS FOR
TRACK ACCESS CONTRACT FOR SERVICES
ON THE
IARNROD EIREANN – IRISH RAIL NETWORK

5 MARCH 2013

TABLE OF CONTENTS

Clause	Page No.
1	Interpretation3
2	Conditions Precedent 7
3	Appointment, Duration and Term of Contract 7
4	Permission to use the Network 7
5	RU Warranties and Representations 8
6	RU Obligations 8
7	IM Obligations 9
8	Mutual Obligations 9
9	Charges and Payment terms10
10	Performance Regime 10
11	Disruptive Possessions Management 10
12	IM Operating Rules and Inspection 11
13	Change Control Procedure 12
14	Communication and Contract Management 12
15	Insurance Requirements 13
16	Liability and Indemnities 14
17	Conflict of Interest 15
18	Employment Law 15
19	Tax Clearance 15
20	Corrupt Gifts and Payments of Commission 16
21	Suspension of Contract 16
22	Force Majeure 17
23	Termination 17
24	Confidentiality 18
25	Reorganisation of IM and/or CIE 19
26	Miscellaneous Provisions 19
27	Notices and Service 21
28	Sub-contracting, Assignment and Novation 21
29	Dispute Resolution Procedure 22
30	Entire Agreement 23
31	Governing Law and Jurisdiction 23
Signing / Sealing Pages..... 23-24	

SCHEDULES:

- Schedule 1 Services
- Schedule 2 Charges
- Schedule 3 Operating Rules
- Schedule 4 SMS 16 & 17 Communication Protocol for Safety Issues
- Schedule 5 Details of Contract Managers
- Schedule 6 Change Authorisation Order
- Schedule 7 Performance Regime
- Schedule 8 Disruptive Possessions Management Process and Requirements
- Schedule 9 Insurance Requirements
- Schedule 10 Notices
- Schedule 11 Collateral Agreement for sub-contractors

GENERAL TERMS AND CONDITIONS FOR THE TRACK ACCESS CONTRACT FOR SERVICES ON THE IARNROD EIREANN - IRISH RAIL NETWORK

This Agreement is made the day of 20[]

BETWEEN

- (1) [], having its registered office is at [] (“**Railway Undertaking**” or “**RU**”);
- (2) **INFRASTRUCTURE MANAGER** (“**IM**”); and
- (3) **CÓRAS IOMPAIR ÉIREANN**, a statutory body corporate having its head office at Heuston Station, Dublin 8 (“**CIE**”).

WHEREAS: -

A. Regulation 4 of Statutory Instrument No. 55/2010 European Communities (Railway Communities) Regulations 2010 (S.I. 55 of 2010) designated Iarnrod Eireann – Irish Rail as Infrastructure Manager for the purpose of the Regulations. The Infrastructure Manager has responsibility for granting access to the railway infrastructure in Ireland. CIE is the owner of the property on which the railway infrastructure is laid.

B. Regulation 12 of the S.I. 55 of 2010 states that the RU shall conclude an agreement with the IM covering the necessary administrative, technical and financial matters to regulate traffic control and safety issues concerning the services to be provided.

C. IM has agreed to grant access to the RU subject to safety and licensing requirements, to use certain track comprised on the network on the terms and conditions of this Agreement.

D. RU has agreed to provide certain representations, warranties, covenants, undertakings and indemnities in favour of CIE pursuant to the terms of this Agreement and CIE has agreed to be a party to this Agreement for the sole purpose of enforcing such representations, warranties, covenants, undertakings and indemnities.

NOW IT IS HEREBY AGREED AS FOLLOWS:

1 INTERPRETATION

1.1 In this Agreement, unless the context otherwise requires:

“**Access Agreement**” or “**Track Access Agreement**” means this agreement for track access for services on the Iarnrod Eireann – Irish Rail network;

“**Ad hoc Request**” means an RU’s request for an individual train path (available as spare capacity) outside the time scale that the IM normally uses;

“**Agreement**” or “**Contract**” means this contract between the RU and IM and CIE;

“**Charges**” means the charges set out in Schedule 2;

“**Change in Control**” means a change in the possession, whether directly or indirectly, of the power to direct or cause the direction of the RU’s management or policies, whether through ownership of shares, by contract or otherwise;

“**Change Order Proposal**” means a proposal by one party to change to specific items of the Contract which are not material changes to the Contract and as set out in Clause 13;

“Change Authorisation Procedure” means the procedure which must be followed when a Party to the Contract wishes to make a Change Order Proposal;

“Change Authorisation Order” or **“CAO”** means an order signed and issued by the IM or the RU and acknowledged by the other Party (with copy sent to CIE) in the form set out in Schedule 6 under the Change Authorisation Procedure authorising a change to specific items named in the CAO;

“Commencement Date” means the date for commencement of the Services described in the Schedule 1 or such other date as shall be agreed in writing between the RU and IM;

“Confidential Information” has the meaning ascribed to it in Clause 24;

“Contract Documents” means and includes this Agreement and its Schedules, the Network Statement and the RU’s application;

“CRR (Regulatory Body)”: The Commission of Railway Regulation is the National Safety Authority for the railway sector in the Republic of Ireland. The CRR ensures conformity assessment, compliance supervision / enforcement and European / Legislation harmonisation. Originally called the Railway Safety Commission (RSC), established on 1st January 2006 in accordance with the requirements of the Railway Safety Act 2005, with effect from Monday 29th February 2016 it was renamed as the CRR.

“Delay Minutes” means, the delay as recorded at a monitoring point as more particularly described in Schedule 7;

“Delay Minute Attribution Process” means the procedure for attributing Delay Minutes which is set out in Schedule 7;

“Dispute Resolution Procedure” means the procedure referred to in Clause 29;

“Force Majeure” has the meaning ascribed to it in Clause 22 (Force Majeure);

“Good Industry Practice” means those standards, practices, methods and procedures conforming to safety and legal requirements which are attained by exercising that degree of skill, diligence, prudence and foresight which would ordinarily be expected from a leading, skilled and experienced operator engaged in the same type of undertaking under the same or similar circumstances;

“Infrastructure Manager” or **“IM”** means the body designated with responsibility for the Irish railway infrastructure in accordance with Statutory Instrument 55 of 2010 European Communities (Railway Infrastructure) Regulations 2010;

“Infrastructure” means the Irish State owned rail network managed by Iarnrod Eireann which includes but is not limited to the tracks, traffic control, communication and signalling systems, junctions, train formation yards, storage sidings, turntables, hot axle box detectors, buildings and structures;

“IM’s Contract Manager” means the person appointed by IM (or his or her delegate) with overall responsibility for monitoring and managing all contractual and administrative aspects of this Agreement;

“Intellectual Property” means registered and unregistered trademarks, service marks, trade names, logos (whether registered or not), patents, inventions, registered and unregistered design rights, utility models, copyrights (including rights in computer software), typography rights, rights of extraction relating to data bases, data base rights and all other similar proprietary rights which may subsist in any part of the world including, where such rights are obtained or enhanced by registration, any registration of such rights and applications and rights to apply for such registration;

“Know How” means know how, trade secrets, confidential technical and proprietary industrial and commercial information and techniques in any form (including paper, electronically stored data, magnetic media, film and micro film), including (without limiting the foregoing) drawings, reports, plans, specifications, notes of meetings, photographs, instruction and training manuals and any similar proprietary rights which anyway subsist anywhere in the world;

“Laws” or **“Law”** means any law applicable in Ireland, the law of the European Union (EU) and including without limitation common law, statutes, statutory instruments, any Directive, or any regulation of the EU, any bylaws, regulations, codes of practice, any amendments, modifications or replacements and also includes without limitation any requirements of the CRR or of any competent regulatory authority including any by-laws of CIE in connection with the use of the railway and any final non-appealable decree, judgement, injunction or order of any court of competent jurisdiction, and in each case having application in Ireland;

“Month” means calendar month;

“Network Routes” means the routes agreed with RU forming the Services set out in

Schedule 1.

“**Network Statement**” means the Iarnrod Eireann Network Statement which sets out in detail the general rules, deadlines, procedures and criteria concerning the charging and capacity allocation schemes and any other information as is required to enable the RU complete an application for infrastructure capacity;

“**Operating Rules**” means the operating rules, technical regulations, policies and codes of conduct for compliance by RU as set out in Schedule 1 and Schedule 3 and as communicated to the RU from time to time in accordance with the SMS 16 & 17 set out in Schedule 4;

“**Period**” means the financial period consisting of 4 weeks as described in Clause 9.2;

“**Person**” includes firms and corporations;

“**RSC**” means Railway Safety Commission of Ireland established under the provisions of the Railway Safety Act 2005;

“**RU’s Application**” means the application to IM for access to operate on the Network;

“**RU’s Contract Manager**” means the individual nominated by the RU as Contract Manager to represent the RU in relation to this Agreement or such other person as the RU may appoint with notice in writing to IM from time to time and including the authorised representatives of the RUs Contract Manager;

“**Safety Certificate**” means a certificated issued by the CRR or issued in another EU country and approved by the CRR;

“**Services**” means the services as set out in Schedule 1 to this Agreement;

“**S.I. 55 of 2010**” means S.I. No. 55/2010 – European Communities (Railway Infrastructure) Regulations 2010 and as may be amended from time to time;

“**State**” means Ireland;

“**Term**” has the meaning ascribed to it in Clause 3.2; and

“**Working Day**” means any day, seven days a week regardless of whether such day is a bank holiday or public holiday in Ireland;

“**Working Time Table**” or “**WTT**” means the working time table agreed by the Parties and set out at Schedule 1.

In this Agreement where the context admits, a reference to:

1.1.1 a statutory provision shall be deemed to include a reference to the statutory provision as amended, extended, modified, consolidated or re-enacted or replaced or both from time to time and any subordinate legislation made under the statutory provision;

1.1.2 clauses, sub-clauses, paragraphs, sub-paragraphs and schedules are to clauses, subclauses, paragraphs, sub-paragraphs and schedules to this Agreement unless the context otherwise suggests;

1.1.3 a person includes any individual to a body corporate, firm, joint venture, association or partnership;

1.1.4 a person includes a reference to that person’s legal personal representatives, successors, lawful and permitted assigns;

1.1.5 a document is a reference to that document as from time to time supplemented or varied;

1.1.6 any phrase introduced by the term “including” shall be construed as if to read “including, but without limitation” and any phrase introduced by the terms “in particular” shall be construed as if to read “in particular, but without limitation” and “for example” shall be construed as if to read “for example, but without limitation”;

and

1.1.7 references to "this Agreement" or to any other agreement or document referred to in this Agreement mean this Agreement or such other Agreement or document as amended, varied, supplemented, modified or novated from time to time, and include the schedules.

1.2 Headings and sub-headings are for convenience only and do not affect the interpretation of

this Agreement. Each of the schedules has effect as if set out in this Agreement. In the event and to the extent only of any conflict between this document and the schedules, this document shall prevail.

1.3 The *contra proferentem* rule of construction shall not apply in the interpretation of this Agreement.

1.4 the rule known as the *ejusdem generis* rule shall not apply in the interpretation of this Agreement and accordingly general words, including those introduced by “other” shall not be given a restrictive meaning by reason of the fact that they are preceded by words indicating a particular class of acts, matters or things and general words shall not be given a restrictive meaning by reason of the fact that they are followed by particular examples intended to be embraced by general words.

1.5 The Contract Documents are to be taken as mutually explanatory of each other. In the event of any ambiguity or conflict between documents the order of precedence shall be as follows;

1.5.1 This Agreement

1.5.2 Schedules to this Agreement

1.5.3 Network Statement

1.5.4 RU’s application

2 CONDITIONS PRECEDENT

2.1 The obligations of IM under this Agreement and the appointment of the RU under this Agreement are subject to the satisfaction of the following conditions precedent;

2.1.1 the access conditions set out in Regulation 6 of S.I. 55 of 2010 and any amendments made thereto and as set out in the relevant up to date Iarnrod Eireann Network Statement;

2.1.2 a Tax clearance Certificate in respect of the RU and all of its subcontractors (if any) which must be maintained for the duration of the Term;

2.1.3 RU maintaining the applicable insurance policies for the duration of the Term;

2.1.4 the representation and warranties set out in Clause 5 being true and correct.

2.2 Neither IM or CIE shall have any obligation nor shall any liability arise in respect of IM or CIE unless and each of the Conditions Precedent have been satisfied and maintained in a manner satisfactory to IM and CIE (or waived by IM and CIE in its absolute discretion)

3 PURPOSE , DURATION AND TERM OF CONTRACT

3.1 This Agreement, in compliance with Regulation 12 of S.I. 55 of 2010, constitutes an agreement governing the overall relationship between IM, RU and CIE covering the necessary administrative, technical and financial matters to regulate traffic control and safety issues concerning the operation of the Services.

3.2 This Agreement shall come into force on the Commencement Date and shall continue in full force and effect for the duration of the Working Time Table (W.T.T) set out in Schedule 1 unless terminated earlier in accordance with its terms (the “**Term**”)

3.3 Where two or more persons are joined to this Agreement as RU for the operation of the Services they do so on a joint and several liability basis and shall be jointly and severally liable to the IM and CIE for the performance of the RU obligations under this Agreement.

3.4 CIE: In consideration of €10 (ten euro) by CIE to the RU (the receipt of which is hereby acknowledged) RU has agreed to provide representations, warranties, covenants, undertakings and indemnities in favour of CIE pursuant to the terms of this Agreement and CIE has agreed to be a party to this Agreement for the sole purpose of enforcing such representations, warranties, covenants, undertakings and indemnities

3.5 For the avoidance of doubt, nothing in this Agreement shall create an exclusive relationship between IM CIE and RU for the operation of the Services.

4 PERMISSION TO USE THE NETWORK ROUTES

4.1 IM hereby grants RU permission to use the Network Routes.

4.2 During the Term, RU shall commence the Services set out in Schedule 1 to this Agreement.

4.3 The Services shall be operated and carried out by the RU in compliance with Schedule 1 of this Agreement and in compliance with all applicable Law and Operating Rules of IM.

5 RU WARRANTIES AND REPRESENTATIONS

5.1 The RU represents and warrants to IM that:

5.1.1 the RU has all necessary power and authority to carry on its business as presently conducted and to enter into and perform its obligations under the Agreement;

5.1.2 the RU has duly and validly executed and delivered the Agreement and the Agreement constitutes a legal, valid and binding obligation, and is enforceable against the RU in accordance with its terms;

5.1.3 the RU has all necessary licences, permits and authorisations required by all relevant Laws, Directives and Regulatory Authorities to operate and carry out the Services;

5.1.4 no proceedings are pending or threatened against the RU in Ireland, or in any other jurisdiction which would make it unlawful for the RU to enter into or perform the Agreement; and

5.1.5 the RU will comply with the applicable Laws and Operating Rules.

6 RU OBLIGATIONS

6.1 RU agrees and covenants and undertakes with each of IM and CIE (and shall procure that any sub-contractor shall agree and covenant and undertake):

6.1.1 To carry out all obligations duties and responsibilities under this Agreement with all reasonable skill, diligence, prudence and care and to act in a thoroughly competent and efficient manner with the foresight which should be exercised by a skilled and experienced professional train operator and in accordance with Good Industry

Practice;

6.1.2 To provide sufficiently skilled and competent personnel to properly carry out the Services and to ensure they are properly and suitably trained and skilled throughout;

6.1.3 To provide that all rolling stock, equipment and materials are in good working order, suitable, fit for purpose and in sufficient condition to operate without causing damage or unnecessary wear and tear to the Infrastructure or any part of the Irish Rail Network;

6.1.4 At all times to comply with the instructions and requirements of IM issued under

SMS 16 & 17, the Communication Protocols for Safety Issues as set out in Schedule 4 to this Agreement and other reasonable restrictions and instructions of IM. Should an event occur which causes disruption (“**Event causing Disruption**”) the RU shall abide strictly by the IM’s instructions. If the RU has any safety concerns about the instructions it must raise the concerns with the IM as soon as it becomes aware of them with IM. The IM and the RU shall endeavour to resolve the safety concerns raised. The IM may make use of, insofar as necessary for the performance of its task, the RU’s operating resources. Fair payment shall be made in return for such use save where the resources used are for the benefit of the RU. The IM cannot compel the RU to take over the transport services of another RU except;

6.1.4.1 to board passengers from a train in distress and/or convey them to the next station from which they can continue their journey;

6.1.4.2 to free tracks occupied by a train in distress and complete and ensure the resulting removal operations.

Should an event occur which causes disruption the IM shall make reasonable account for the interests of the Parties and of third parties.

6.1.5 to ensure that the Services are operated in accordance with all applicable Law and regulatory requirements applicable in Ireland including without limitation the Railway Safety Act 2005 and any regulations made thereunder from time to time, the Safety, Health and Welfare at Work Act 2005 and any regulations issued from time to time thereunder, the European Communities (Transport of Dangerous Goods by Rail) Regulations 2010 and the Data Protection Acts and any regulations thereunder;

6.1.6 to inform IM immediately of any cancellation, amendment, suspension, revocation or replacement with a temporary licence to its Railway Operating Licence.

6.1.7 to maintain and produce to IM (if requested) the Safety Certificate as set out in the Network Statement and to ensure that the Safety Certificate is complied with in all respects by itself, its personnel and subcontractor (if any);

6.1.8 to comply with the Operating Rules and all rules and regulations as further notified to RU from time to time during the Term of this Agreement;

6.1.9 RU shall at its own cost attend such meetings with IM or any other person or body approved by IM as may be notified to the RU from time to time as provided for in this Agreement;

6.1.10 In relation to the carriage of goods, RU shall ensure compliance with the general appendix to the WTT and to the requirements of the European Communities (Transport of Dangerous Goods by Rail) Regulations 2010 and any amendments thereto. The IM relies on the safety statement of the RU which the RU confirms is compliant with all Laws and Good Industry Practice.

7 IM OBLIGATIONS:

7.1 IM agrees and covenants and undertakes with RU:

7.1.1 To provide the RU with the Services attributed to it in Schedule 1 in a professional manner;

7.1.2 That the railway network on which capacity is provided to the RU as set out in Schedule 1 will be in a sufficient condition to allow train operation without inflicting damage to unnecessary wear and tear to rolling stock. Furthermore the railway network shall be in sufficient condition to allow traffic operation in accordance with the timetable applying at any given time subject to notifications given regarding possessions and other issues as provided for in this Agreement and as agreed from

time to time by the Parties;

8 MUTUAL OBLIGATIONS

8.1 The Parties shall have a mutual obligation to notify each other about all incidents specified in the Operating Rules as soon as they become aware of them and in particular where incidents have consequences for traffic operations, traffic management and rail infrastructure.

8.2 Communication between the RU and IM and any other relevant parties shall be as per SMS 16 the Communication Protocol for Safety Issues set out in Schedule 4 to this Agreement for safety related communications and as per Clause 14 for all other communications, including without limitation proposed changes to the WTT invoicing, performance review and general contract management issues;

9 CHARGES AND PAYMENT TERMS

9.1 RU shall pay the Charges to IM as set out in Schedule 2. The Charges set out in Schedule 2 are exclusive of VAT. Where such Charge is payable the payer shall in addition to the payment of the Charges pay such VAT as is chargeable in respect of it.

9.2 IM's financial system operates on thirteen four week periods. Each 4 week period shall be hereinafter referred to as a "**Period**". IM shall raise an invoice for Charges and shall invoice RU for each Period in arrears for the W.T.T and any Ad hoc services undertaken. The invoice will be sent to the RU in the Period following the Period the Charges were incurred. The invoice shall contain a statement of amount payable and shall contain such detail as shall be necessary or expedient so as to enable the person to whom it is given to understand, check it and arrange payment. The IM may need to request the RU to provide all necessary information to IM for calculating the Charges. The RU is obligated to comply with this request. If the relevant information is not provided then IM will be entitled to estimate the Charges. For the avoidance of doubt, the Period 6 invoice and Period 13 invoice will be inclusive of the impact of the Performance Regime set out in Schedule 7.

9.3 All sums due or payable by either party under this Agreement shall be paid free and clear of any deduction, withholding or set off except only as may be required by Law or as expressly provided in this Agreement, any Schedule to this Agreement.

9.4 All payments made to IM under this Agreement shall be made entirely in Euro and shall be made by electronic funds transfer ("**EFT**") to the bank account of the IM as notified to the RU prior to the signing of this Agreement and as otherwise notified from time to time.

10 PERFORMANCE REGIME

10.1 The Performance Regime is set out in Schedule 7 to this Agreement. The RU and IM shall comply with the provisions of the Performance Regime which seeks to minimise disruption and improve the performance of the railway network.

10.2 Delay Minutes shall be imposed by IM in the circumstances set out in the Performance Regime. The Performance Regime is based on a monitoring and recording system whereby delays and performance affecting failures will be monitored by IM.

10.3 If a disagreement should arise over the imposition of Delay Minutes, an appeal process is available to the RU as set out in Schedule 7 ("**Delay Minute Attribution Process**"). If the Delay Minute Attribution Process does not resolve the issue, the Dispute Resolution Procedure at Clause 29 to this Agreement must be followed. The imposition of Delay Minutes shall be without prejudice to any Party's rights or remedies under this Agreement or at law howsoever arising.

11. DISRUPTIVE POSSESSION MANAGEMENT

11.1 RU acknowledges that the IM will require possession of sections of the Network Route from time to time throughout the Term in order for maintenance and repair services to be undertaken. This will be achieved in accordance with the Disruptive Possession Management Process and Requirements.

11.2 The Disruptive Possession Management Process and Requirements are set out at Schedule 8 to this Agreement.

11.3 In the event of Disruptive Possession causing expense to the RU and in line with the limits set out in Schedule 8 of this Agreement, a credit shall be payable by the IM to the RU in accordance with Schedule 8 of this Agreement. The RU shall calculate the credit claimed and submit same to IM as soon as possible and with any supporting documentation that IM may reasonably require. The amount of the credits occurring in a Period will be set-off the invoice for Charges for that Period as per Clause 9 and Schedule 2 of this Agreement.

12. IM OPERATING RULES AND INSPECTION

12.1 IM has set out in Schedule 1 and Schedule 3 a list of the operating rules, technical regulations, polices and codes of conduct that the RU is obliged to comply with for the duration of this Agreement and where indicated for a term longer than the duration of this Agreement. These are collectively referred to in this Agreement as the Operating Rules (“**Operating Rules**”).

12.2 During the Term, an IM officer or his authorised representative shall be entitled to inspect the compliance of the RU with the Operating Rules and if as a result of such inspection is of the opinion that the Services are not being performed in accordance with this Agreement and in particular but without limitation the Operating Rules the IM shall so inform the RU in writing (the “**Direction**”) and the RU shall take such steps as may be necessary to ensure such compliance. Any notification under this Clause 12 shall be without prejudice to any of IM’s other rights and remedies under this Agreement.

12.3 The IM officer or his authorised representative shall be entitled at any time for ensuring RU’s compliance with the Operating Rules enter upon any property of the RU where Services are being performed.

12.4 Should the RU fail to comply with a Direction of the IM officer within the periods that may be stipulated therein then IM may take whatever action it considers necessary in the circumstances and passing on to RU the additional fees, charges costs and expenses incurred.

12.5 IM may inspect the RU’s rolling stock on suspicion that this has inflicted or may inflict damage to the railway infrastructure. Similarly the RU may inspect the railway infrastructure on suspicion that this has inflicted or may inflict damage to its rolling stock. Inspections shall be conducted within reason such as to avoid inconvenience to the production of the Parties and other railway operators.

12.6 Each party may demand that the other party without undue delay inspect their own infrastructure/rolling stock on suspicion that this has inflicted or may inflict damage to the other party’s infrastructure/rolling stock.

12.7 Both Parties, in the presence of the other Party, have a mutual right to inspect each other’s railway infrastructure and rolling stock immediately after the occurrence of an unwanted incident in order to uncover the causes of the incident.

13. CHANGE CONTROL PROCEDURE

13.1 Both Parties shall be entitled to issue a proposal to the other Party for a change as listed in Clause 13.4 (“**Change Order Proposal**”). A Change Order Proposal may be made by the RU in relation to the Services and by the IM in relation to changes to the Infrastructure.

13.2 The Change Control Procedure set out in this Clause 13 does not apply where Infrastructure

changes are required for Ad hoc Requests which are dealt with under the Ad hoc Request Process set out in Schedule 1 and in the Network Statement.

13.3 The Change Order Proposal must be issued in the form set out at Schedule 6 in respect of the proposed change including any effect on the Charges which is not a material change to the Agreement. Neither Party is obliged to agree any Change Order Proposal.

13.4 Change Order Proposal must be issued for the following;

13.4.1 Alteration to or Removal of Infrastructure by IM

13.4.2 Proposed changes to the W.T.T. by the RU

13.5 The Party submitting the Change Order Proposal shall also submit the following information in writing:

13.5.1 details of any impact on the Charges (if any) that will result from the Change Order Proposal;

13.5.2 details of the consequential amendments to this Agreement which it considers will be required to implement the Change Order Proposal;

13.5.3 such other information as it considers necessary.

13.6 If both Parties are in agreement they shall sign the Change Order Proposal as provided for in Schedule 6 with each Party retaining the signed Change Order Proposal (now a “**Change Authorisation Order**” or “**CAO**”) which once signed becomes a contract amendment and part of this Agreement.

13.7 It should be considered that any change to the Services may require the RU, at the request of the IM, to increase the insurance limits and obtain additional coverage at the RU’s expense.

13.8 None of the procedures under this Clause 13 shall be used to effect a contract amendment or variation of this Agreement which may only be effected under the provisions of Clause 26.7

14 COMMUNICATIONS AND CONTRACT MANAGEMENT

14.1 The RU and the IM shall designate Contract Managers to deal with all the issues arising during the Term of this Agreement. The names and contact details of the Contract Managers shall be notified to the other Party in writing on the signing of this Agreement. Any changes to the Contract Manager must be notified in writing to the other Party not less than one month before the change is to take effect. Names and contact details of the Contract Managers are attached at Schedule 5. Any changes to these details must be notified to the other Parties as soon as possible and acknowledged by the other Parties otherwise the details are not deemed to be amended.

14.2 RU Contract Manager and IM Contract Manager shall attend regular meetings during the Term of this Agreement in respect of the performance of the Services. These meetings shall take place on reasonable notice at the request of either Party and may be held in person, on the telephone or any other medium agreed by the Parties. Both the RU Contract Manager and the IM Contract Manager shall make every effort to attend the meetings requested.

14.3 The meetings described in Clause 14.2 above shall be held to discuss any financial, general contract management, commercial, performance review and operational issues that are not safety matters dealt with under SMS 16 as well as areas of dispute. These meetings shall be the first line for the resolution of disputes as set out in Clause 29.1.1 to this Agreement. All communications regarding safety matters shall be as outlined in SMS 16 & 17 Communication Protocols for Safety Issues at Schedule 4 and must be adhered to.

14.4 In addition to the regular meetings taking place between the RU Contract Manager and the IM Contract Manager throughout the Term of this Agreement, the Parties shall also organise and attend an operations meeting, frequency of which to be agreed by the Parties. The IM and the RU will provide the relevant representatives to attend these meetings.

14.5 The overall administration of this Agreement on the part of the RU shall be carried out by the RU's Contract Manager who is authorised by the RU to agree all administrative and day to day operational matters with IM in connection with this Agreement.

14.5 For the avoidance of doubt, nothing in this clause 14 shall authorise an RU Contract Manager or IM Contract Manager to agree any contract variation or amendment as per clause 26.7

15. INSURANCE REQUIREMENTS

15.1 The RU agrees to maintain the insurances set out in Schedule 9 to this Agreement for the particular term specified in each case with insurers approved by IM.

15.2 Prior to the Commencement Date and at any time thereafter if requested by IM, the RU shall provide IM with certificates of insurance and/or certified copies of all policies certifying that all insurance referred to above is in force for the periods specified. The RU shall notify IM immediately if any of the insurances cease to be available.

15.3 The RU agrees, represents and warrants to CIE and IM that such insurance policies shall also indemnify IM and CIE against any acts, omissions, negligence and/or breach of any officers, servants, employees, sub-contractors and/or agents of the RU or that such sub-contractors and agents will carry insurance to the same levels and on terms at least as favourable to IM and CIE as those required from the RU. The RU shall indemnify CIE and IM for any loss suffered by them due to the failure of the RU to comply with this obligation.

15.4 RU should note that the insurance policies described in Schedule 9 are required to contain an indemnity to principal's clause specifically indemnifying CIE and IM and none of the policies described in this Clause 15 shall include any terms or conditions to the effect that the RU must discharge any liability before being able to recover from the insurers.

15.6 If the RU fails to provide any of the insurance cover specified in Schedule 9, IM may do so for the whole or part of the period for which such cover is required, without being under any obligation so to do, and may deduct any costs it incurs in obtaining such cover from any sums due to the RU under the Agreement, or otherwise recover such sums from the RU.

15.7 The RU shall be liable to pay the full amount of any deductibles or excess amounts payable under such insurance policies, in the event of a claim under any of the policies referred to in Schedule 9.

15.8 Where the level of indemnity to be provided under any of the insurance policies is an aggregate amount, the RU shall notify IM of any claims made under such policy forthwith. IM reserves the right to request that such policies provide a separate aggregate limit in respect of any claims arising out of or relating to the Agreement.

15.9 Without prejudice to anything contained in this Clause 15, if on being requested to carry out any Services, the IM also asks the RU either to increase any or all of the insurance indemnity limits set out in Schedule 9 or to obtain alternative or extra insurance, the RU shall confirm to IM whether or not it is agreeing to do so within 48 hours. Prior to carrying out the said Services the RU shall provide satisfactory evidence from its insurance broker that such additional insurances are in place and the provisions of this Clause 15 shall apply thereto

mutatis mutandis. If the RU is not agreeable to altering its insurance cover, as requested by IM, the RU shall not carry out the said Services.

16. LIABILITY AND INDEMNITIES

16.1 The RU hereby agrees to indemnify and keep indemnified each of CIE and IM and their respective officers, managers, employees, servants and agents against all proceedings, actions, claims, losses, damages, costs and other expenses of any nature whatsoever incurred or suffered by IM and/or CIE arising out of the RU's negligence, error, act, default, omission, breach of contract, or breach of statutory duty in operating the Services. For the avoidance of doubt, this includes all and any environmental damage caused directly or indirectly by the RU in relation to the carriage of goods or otherwise.

16.2 The IM hereby agrees to indemnify and keep indemnified each of CIE and IM and their respective officers, managers, employees, servants and agents against all proceedings, actions, claims, losses, damages, costs and other expenses of any nature whatsoever incurred or suffered by RU and/or CIE arising out of the IM's negligence, error, act, default, omission, breach of contract, or breach of statutory duty in operating the Services.

16.3 Without limiting Sub-Clause 16.1, the RU agrees to indemnify and keep indemnified each of CIE and IM and their respective directors, officers, managers, employees, servants and agents from and against all proceedings, actions, claims, losses, damages, costs (including legal costs) charges, claims, expenses, liability and demands in respect of any disease, sickness, or injury to, or the death of any person whatsoever, or in respect of any loss of or damage to any property or any part thereof of IM or CIE or both or of any third party caused by or arising from any act, negligence, error, default, omission, breach of contract or breach of statutory duty of the RU in connection with the performance of the Services or while present on the premises of IM or CIE or at any Location.

16.4 Without limiting Sub-Clause 16.2, the IM agrees to indemnify and keep indemnified each of CIE and RU and their respective directors, officers, managers, employees, servants and agents from and against all proceedings, actions, claims, losses, damages, costs (including legal costs) charges, claims, expenses, liability and demands in respect of any disease, sickness, or injury to, or the death of any person whatsoever, or in respect of any loss of or damage to any property or any part thereof of RU or CIE or both or of any third party caused by or arising from any act, negligence, error, default, omission, breach of contract or breach of statutory duty of the IM in connection with the performance of the Services or while present on the premises of RU or CIE or at any Location.

16.5 No Party to this Agreement shall be liable to any other Party for any indirect or consequential loss (including loss of profit, contracts, goodwill, business opportunity or anticipated saving) arising out of or in connection with the Agreement for any reason other than as provided for the Delay Minute Attribution Process in Schedule 7 or the Disruptive Possession Management Process in Schedule 8.

16.6 Both IM and RU shall notify the other party of the relevant circumstances giving rise to a claim as soon as reasonably practicable after first becoming aware of those circumstances and shall take all reasonable steps to prevent, mitigate and restrict the circumstances giving rise to that claim and any losses connected with that claim. In relation to environmental damage the RU must act to prevent mitigate or remedy that damage based on best information available to it at the time. The IM has the right to restrict track access on a temporary basis where necessary to deal with such damage.

17. CONFLICTS OF INTEREST

17.1 RU shall disclose to IM (and shall procure that any subcontractor shall disclose to IM) within 48 hours of it coming to the attention of the RU any conflict of interest or potential conflict of interest with IM and/or CIE which it or its respective personnel may have or which its respective personnel may have.

17.2 In the event of any conflict of interest, IM shall, in its absolute discretion, decide in the appropriate course of action. Where IM considers that the matter does not give rise to a conflict of interest or that the conflict of interest is immaterial it may permit the situation to

continue. Where IM considers that the matter does give rise to a conflict of interest it may permit matters to continue provided that appropriate safeguards being agreed between IM and/or CIE and RU are put in place and that IM is satisfied that they are in place.

18. EMPLOYMENT LAW

18.1 The RU shall fully observe and comply with all relevant employment law (both statute and common law and all applicable Laws) and regulations applicable to its employees, and, where obligations are to be performed under this Agreement, observe and fully comply with all Irish employment law and Laws.

18.2 The RU shall maintain written records and data (whether in hard copies or in electronic form) evidencing its compliance with all such employment law and regulation and shall provide copies of such records and sight of the originals thereof to IM promptly upon request. The RU shall grant access to IM or any authorised representative of IM to its premises or any relevant premises on reasonable notice, for the purposes of any inspection of such records and data (in whatever form, including electronic).

18.3 The members of the RU's personnel shall be employees of the RU or of a subcontractor. Neither IM nor CIE shall have responsibility or liability in respect of such employees nor shall IM or CIE be deemed the employer of such persons or of any subcontractor nor in respect of any remuneration in respect of such persons, nor shall any relationship of employment exist between IM or CIE with the RU or the RU's personnel or any member thereof.

19. TAX CLEARANCE

19.1 This Agreement is conditional on the production of a current Tax Clearance Certificate from the Revenue Commissioners of Ireland to IM in respect of the RU and each subcontractor (if any) and any payment by IM under the Agreement is conditional on IM having in its possession at the time of payment a current Tax Clearance Certificate in respect of the RU itself and each sub-contractor (if any). The RU shall be required to provide IM with a copy of a Tax Clearance Certificate and to produce original certificates as and when required.

19.2 The RU shall keep its Tax Clearance Certificate (as the case may be) current and up to date at all times for the duration of this Agreement and must produce it to IM on request. Breach of any of the provisions of this Clause 19 shall be deemed to be a material breach of contract.

20. CORRUPT GIFTS AND PAYMENTS OF COMMISSION

20.1 RU shall not offer or give or agree to give to any employee or representative of IM or CIE any gift or consideration of any kind as an inducement or reward for doing or refraining from or for having done any act in relation to the obtaining or execution of this or any other agreement with IM or CIE or for showing or refraining from showing favour or disfavour to any person in relation to this or any other agreement with IM.

20.2 Without prejudice to any other provision of this Clause 20, the RU shall not, and shall procure that its personnel shall not, commit any offence under any Laws creating offences in respect of fraudulent acts or commit any offence under the Prevention of Corruption Acts 1889 – 2001, the Ethics in Public Office Act 1995 and the Standards in Public Office Act 2001 and any regulations made under any legislation and shall not commit any offence under common law in respect of fraudulent acts and shall not defraud or attempt to defraud IM and/or CIE.

20.3 Breach of this Clause 20 by RU shall be deemed to be a material breach of contract and shall entitle IM to terminate this Agreement forthwith by notice in writing pursuant to the provisions of Clause 23.2.

21. SUSPENSION

21.1 IM may, by serving a notice in writing on the RU (such notice to be served in accordance

with the provisions of Clause 27) suspend its operations or any part thereof under this Agreement as may be specified in the notice of suspension and for such time and in such manner as IM shall set out in its notice of suspension. Payment in respect of such obligations as are referred to in such notice of suspension shall also be suspended in accordance with the terms set out in such notice and any payments made in accordance with this Clause 21.

21.2 The provisions of Sub-Clause 21.3 shall apply in relation to a suspension other than in relation to a suspension issued by IM by reason of some default or breach by the RU of its obligations under this Agreement.

21.3 Subject to Sub-Clause 21.2, where IM suspends performance of any of the operations of the RU pursuant to Sub-Clause 21.1 and this suspension is not as a result of any default or breach by the RU of its obligations under this Agreement, the RU shall be entitled to be reimbursed by IM in respect of any increased costs reasonably incurred by the RU by reason of such suspension in accordance with Schedule 2.

21.4 IM may also suspend, by notice in writing to the RU (such notice to be served in accordance with the provisions of Clause 27), the operations of the RU due to repeated breaches of the Performance Regime and/or not implementing performance improvement measures.

21.5 Any suspension shall be without prejudice to any antecedent breach of this Agreement. The RU shall not be entitled to claim against IM or CIE for loss of profit, costs, expenses, damages, loss of contracts or for any other losses arising from or connected with any suspension of the Services any part thereof, other than as expressly provided for under this Clause 21.

21.6 In the event of the suspension of the Services (howsoever arising), IM shall be entitled at any time to instruct the RU in writing to resume operation of the Services and the RU shall as soon as reasonably practicable comply with such instruction.

21.7 Where the suspension continues for a period of six (6) months, at the expiry of six (6) months the RU shall be entitled to issue a written notice to IM requiring IM to lift the suspension of the obligation(s). If the suspension is not lifted within thirty (30) days of IM receiving the written notice from the RU, RU shall be entitled to terminate this Agreement by not less than thirty (30) Working Days' notice in writing served on the other Parties to this Agreement.

22. FORCE MAJEURE

22.1 **"FORCE MAJEURE"** in this Clause 22 means, in relation to either Party, an event beyond the reasonable control of that Party involving an act of God, war, riot, act of terrorism, security alert, civil commotion, malicious damage, disease, pestilence, accident, fire, flood or storm which could not have been avoided by taking reasonable precautions which, having regard to all matters known to it before the occurrence of the Force Majeure and all other relevant factors, it ought reasonably to have taken but did not take.

22.2 If any Party is affected by a Force Majeure (the **"Affected Party"**) it shall promptly notify the other Parties in writing in reasonable detail of the nature and extent of the circumstances in question.

22.3 Notwithstanding any other provision of this Agreement, the Affected Party shall be deemed not to be in breach of this Agreement, or otherwise liable to the other Parties, for any delay in performance or the non-performance of any of its obligations under this Agreement to the extent that the delay or non-performance is due to any Force Majeure of which it has notified the other Parties in accordance with Sub-Clause 22.2 and the time for performance of the affected obligations shall be extended accordingly.

22.4 The Affected Party shall use its reasonable endeavours to mitigate the effects of the Force Majeure on the performance of its obligations under this Agreement. In the event of Force Majeure, the Parties shall meet as soon as possible to discuss the best means of alleviating the

effects of Force Majeure.

22.5 The Affected Party shall notify the other Parties immediately in writing once the Force Majeure has ended and shall forthwith resume performance of all of its obligations under this Agreement.

22.6 If the Force Majeure resulting in the delay in performance or the non-performance by a Party or any obligations under this Agreement continues for more than three (3) months after the date on which the Force Majeure begins, any Party may by notice in writing to the other Parties terminate this Agreement. The provisions of Sub-Clauses 22.5 to 22.7 inclusive shall apply in respect of any termination hereunder.

22.7 If because of an event of Force Majeure, RU is unable to provide the Services in whole or in part, IM shall have the right to make alternative arrangements for the provision of such Services. Under those circumstances, IM shall not be obliged to resume its obligations under the Agreement and the RU shall not be permitted to recommence providing the Services until any contractual obligations of IM and/or CIE with a third party in making such alternative arrangements have ceased or expired, unless otherwise agreed between the IM and RU.

23. TERMINATION

23.1 This Agreement shall come into force on the Commencement Date and shall, subject to the early termination provisions provided for herein, continue in full force and effect for the duration of the Term.

23.2 If the RU:

23.2.1 fails to operate the Services set out in Schedule 1 Part B;

23.2.2 fails to pay the Charges in accordance with Clause 9 and Schedule 2;

23.2.3 contravenes the provisions of any of Clause 5 (RU Warranties and Representations); Clause 15 (Insurance Requirements); Clause 16 (Liabilities and Indemnity); Clause 18 (Employment), Clause 19 (Tax Clearance), Clause 20 (Corrupt Gifts and Payments of Commission); Clause 28 (Sub-Contracting, Assignment and Novation);

23.2.4 abandons the Agreement or otherwise commits a material or persistent breach thereof and fails to remedy the breach (if capable of remedy) within twenty one (21) days of receipt of written notice from IM giving details of the breach and requiring it to be remedied;

23.2.5 becomes bankrupt, or makes any composition or arrangement with, or conveyance or assignment for the benefit of his creditors, or any application is made under any bankruptcy act for the time being in force for a sequestration of his estate, or a trustee is granted by him on behalf of his creditors, or if the RU, being a company, enters into voluntary or compulsory liquidation (except for the purpose of reconstruction or amalgamation), or if a receiver or examiner of any of its assets is appointed; or

23.2.6 undergoes a Change of Control and fails to inform the IM in advance;

23.2.7 defrauds and/or attempts to defraud IM or CIE.

IM may, without prejudice to any other right or remedy, terminate the Agreement by giving the RU written notice thereof to take effect in accordance with Clause 27 (Notices and Service) or upon such other day as may be specified in the notice.

23.3 Should conditions arise which, in the opinion of IM, make it advisable or necessary to terminate the Agreement, IM may terminate this Agreement upon 30 Working Days' written notice to the RU (the "**Termination Period**"). Such a termination shall be effected in the manner specified in the said notice and shall be without prejudice to any Charges owing by

the RU at the date of termination. During the Termination Period the RU and the IM shall agree the timetable for the withdrawal of Services by the RU and the procedure for transfer of Services over to the incumbent RU if any.

23.4 In the event of termination of the Agreement for any reason, the RU shall remove all its property from the Network Routes and other Locations and access routes not owned by it and ensure that the property and locations of CIE and IM are left in a safe, habitable and tidy state to the satisfaction of CIE and IM.

23.5 IM shall not be liable to the RU for any indirect or consequential loss (including loss of profit, contracts, goodwill, business opportunity or anticipated saving) arising out of or in connection with the Agreement for any reason.

23.6 Termination of this Agreement shall be without prejudice to the rights and remedies of any Party in relation to any negligence, omission or default of any other Party prior to termination.

23.7 Notwithstanding termination of the Agreement, the provisions of the Agreement shall continue to bind each Party insofar as and for as long as may be necessary to give effect to their respective rights and obligations hereunder.

24. CONFIDENTIALITY

24.1 “**Confidential Information**” means all confidential information disclosed (whether in writing, orally or by another means and whether directly or indirectly) by a Party (the “**Disclosing Party**”) to the other Parties/party (the “**Receiving Party**”) whether before or after the date of this Agreement including, without limitation, information relating to the negotiation, provisions and subject matter of this Agreement or the Disclosing Party’s operations, processes, plans or intentions, know-how, design rights, trade secrets or business affairs.

24.2 Subject to sub-clause 24.3 during the Term of this Agreement and at any time after the termination or expiry of this Agreement (for any reason) the Receiving Party:

24.2.1 may not use any Confidential Information for any purpose other than in the performance of its obligations under this Agreement;

24.2.2 may not disclose any Confidential Information to any person except with the prior written consent of the Disclosing Party or in accordance with sub-clause 24.3; and

24.2.3 shall make every effort to prevent the use of disclosure of Confidential Information.

24.3 The Receiving Party may disclose information which would otherwise be Confidential Information if and to the extent that;

24.3.1 it is required by Laws;

24.3.2 in the case of IM, disclosure is required by a shareholder or a Minister of the Government of Ireland;

24.3.3 the information has come into the public domain or into the knowledge of the Receiving party otherwise than through a breach of this clause 24 or any other confidentiality agreement with the Disclosing Party by the Receiving Party;

24.3.4 it is required by existing contractual obligations of which the Disclosing Party is aware;

24.3.5 it is required by any regulatory or governmental body to which it is subject; or

24.3.6 the disclosure is to its professional advisors, auditors or banker or to any of its

directors or officers to the extent that such disclosure is reasonably necessary for the purpose of this Agreement. All such recipients must be made aware of the confidential nature of the information and the confidentiality provisions of this Agreement.

25. REORGANISATION OF IM AND/OR CIE

25.1 Notwithstanding anything to the contrary in this Agreement, if IM and/or CIE or the Government of Ireland or any Minister or Department thereof should re-organise the business and/or legal structure of IM and/or CIE (whether by dividing or restructuring their respective businesses between two or more corporate bodies, statutory bodies, divisions, subsidiaries, companies, entities or otherwise (“**Entities**”)) the obligations of IM and CIE hereunder may be divided between such Entities and the RU shall thereafter deal with such Entities as if the parts of this Agreement relevant to the business of such Entities formed a contract between the RU and such Entities.

26. MISCELLANEOUS

26.1 Announcements: No announcement, circular or communication concerning the subject matter of this Agreement or any matter ancillary or relating thereto (other than to the extent required by Laws) shall be made or despatched by the RU without the prior written consent of IM. This Sub-Clause does not apply to any public announcement, communication or circular to be made or sent by the RU if it is required by applicable Laws or regulatory or governmental body to which it is subject.

26.2 Waivers and Alternative Remedies: The failure by any Party to enforce any provision of this Agreement will in no way affect its right thereafter to require complete performance by the other Parties, nor will the waiver of any breach of any provision of this Agreement be taken or held to be a waiver of any subsequent breach of any provision or be a waiver of the provision itself. No delay, omission or forbearance on the part of any Party to this Agreement in exercising any right, power, privilege, or remedy provided by Laws or under this Agreement shall operate to or be construed or interpreted as operating to impair such rights, power, privilege or remedy, or operate as a waiver thereof. The single or partial exercise by IM or by CIE of any right, power, privilege or remedy provided by Laws or under this Agreement shall, whether or not exercised, not preclude any other or further exercise thereof.

26.3 Severance: Each of the provisions of this Agreement is severable and distinct from the others and if at any time one or more of such provisions is or becomes invalid, illegal or unenforceable in whole or in part such term, provision or part shall to the extent of such invalidity, illegality or unenforceability be deemed not to form part of this Agreement and the validity, legality or unenforceability of the remaining provisions shall not in any way be affected or impaired thereby.

26.4 Costs and Expenses: Except where this Agreement expressly provides otherwise, each Party shall pay its own costs and expenses relating to the negotiation, preparation, execution and implementation by it of this Agreement and any document referred to herein.

26.5 Further Assurance: Each Party shall, at its own cost, from time to time and being required to do so by the other Parties, now or at any time in the future, do or procure the doing of all such acts and/or execute or procure the execution of all such documents in a form satisfactory to the other Parties as the other Parties may reasonably consider necessary, to give full effect to this Agreement.

26.6 Co-Operation with Third Parties: Without prejudice to its other obligations, the RU shall give assistance to and provide such information as IM and/or CIE may reasonably require to such other parties as IM and/or CIE may from time to time contract with or consider contracting with. Nothing in this Agreement shall oblige the RU to supply any Confidential Information.

26.7 Contract Variation and Amendment: All amendments and variations to this Agreement are

only valid if they are in writing and signed by or on behalf of each Party. This Agreement shall not be varied except as provided in this Sub-Clause 26.7.

26.8 Cumulative Remedies: The rights, powers, privileges and remedies of IM or of CIE provided in this Agreement are cumulative and not exclusive of any rights, powers, privileges and remedies it would otherwise be entitled to under common law or statute.

26.9 No Partnership: Nothing in this Agreement and no action taken by the Parties pursuant to this Agreement shall create, or be interpreted or construed as creating a partnership, association, joint venture or other co-operative entity between IM, CIE and RU.

26.10 Scope of Authority: No Party shall have any right, power or authority to enter into any agreement, or act on behalf of, or to act as or to be an agent or representative of, or to otherwise bind the other Parties unless expressly provided for otherwise in this Agreement. RU shall act as an independent contractor.

26.11 Counterparts: This Agreement may be executed by the Parties in any number of counterparts and on separate counterparts, but shall not be so effective until each Party has executed at least one counterpart. Each counterpart shall constitute an original of this Agreement, but all the counterparts shall together constitute but one and the same instrument.

26.12 Change of Law: Each Party hereto shall notify the other Parties in writing of any change in applicable Laws, including any regulatory change, of which that Party becomes aware that may relate to the provision of the Services or the performance of this Agreement promptly after such Party becomes aware of any such changes. The Parties shall work together in good faith to identify the impact of such changes on how the Services are provided or are to be provided. The Parties agree to negotiate in good faith to agree the changes to the Services and the cost and responsibility for implementing such change. Any agreement reached by the Parties shall be signed by the Parties in writing in accordance with Sub-Clause 26.7

27 NOTICES AND SERVICE

27.1 All formal notices to be given under this Agreement shall be in writing and may not be sent or served by email (but copies thereof may be sent by email for information purposes only as transmission by email does not constitute service of notices). Day to day communications between the Parties for the purposes of operating the Agreement may be or sent by email or as otherwise agreed.

27.2 Any notices shall be deemed sufficient if sent by pre-paid registered post or by hand to the Parties at the addresses listed and marked for the attention of the persons specified in this Agreement and, where posted, shall be deemed to have been given on the fourth day after the notice was posted and has not been returned to the sender shall be sufficient evidence that the notice was duly given. Notices sent by hand shall be deemed to have been delivered on receipt.

27.3 Any Party may by notice in writing to the other Parties (served in compliance with this clause 27) change the address and notice party to which notices must be sent or delivered under this Agreement. CIE shall be copied on all notices issued or served by IM or RU.

28. SUB-CONTRACTING ASSIGNMENT AND NOVATION

28.1 This appointment is personal to the RU and the RU may not assign, sub-contract, novate, mortgage, charge, create an interest in any trust over, transfer, or otherwise dispose of all or any part of this Agreement, or any of the RU's rights, benefits or obligations to in or under this Agreement or any part thereof, directly or indirectly to any person or persons without the prior written approval of IM and CIE. CIE and/or IM may withhold consent in its absolute discretion.

28.2 IM and CIE shall be entitled to transfer, assign or novate all or any part of the terms and

conditions of this Agreement and shall give prompt notice to the RU of such transfer, assignment or novation. The RU shall do all acts, and execute all documentation necessary to give effect to such transfer, assignment or novation.

28.3 The RU shall not be permitted to subcontract the whole of the Services, part of the Services or any of the Network Routes.

28.4 If for any reason the RU needs to use a sub-contractor it must apply in writing to IM to appoint (or change a sub-contractor) and must give not less than ten (10) Working Days notice in writing to IM of such an intended appointment with detailed particulars of the proposed sub-contractor, its relevant experience and audited accounts where requested by IM, together with certified copies of all licences, permits and authorisations and qualifications and insurances and tax clearance certificate of the proposed sub-contractor, and the intended commencement date and scope of the sub-contractor's work.

The IM is not obliged to accept any application for appointment of a sub-contractor. For the avoidance of doubt, it is hereby acknowledged by the RU that the RU is liable to each of IM and CIE for all the acts, defaults, omissions and negligence of the RU's sub-contractors as if they were the acts, defaults, omissions and negligence of the RU.

28.5 Collateral Agreement: Any approval of IM to any proposed sub-contractor of the RU is subject to and conditional upon the proposed sub-contractor entering into a Collateral Agreement with IM and CIE in the form available from IM as set out in Schedule 11.

28.6 The RU shall furnish to IM from time to time during the Term any information requested by IM in relation to such sub-contractors.

28.7 Breach of the provisions of this Clause 28 shall be deemed to be a material breach of contract entitling IM to terminate this Agreement pursuant to the provisions of Clause 23 (Termination).

29. DISPUTE RESOLUTION PROCEDURE

29.1 If any dispute or difference arises between the Parties hereto as to any matter or thing arising under or in connection with this Agreement, each of the Parties agree first to try in good faith to attempt to resolve any dispute before resorting to litigation or any other dispute resolution procedure howsoever arising. If the dispute relates to Delay Minutes, the Delay Minute Attribution Process set out at Schedule 7 must be followed first. Where any matter or thing the subject of a dispute has not been resolved at a monthly meeting between IM and the RU, or within a one month period from the date of the meeting at which the matter was first discussed, (hereinafter referred to as a "**Dispute**"), any Party may serve a notice on the others (a "**Dispute Notice**"), served in accordance with Clause 27 setting out the nature of the dispute and detailing the unresolved issues. The matter shall be dealt with as follows:

29.1.1 the Dispute shall be referred in the first instance to IM's Contract Manager and the RU's Contract Manager;

29.1.2 if the Dispute has not been resolved within ten (10) Working Days of the date of issue of the Dispute Notice, the matter shall be referred to a member of senior management team of IM nominated by IM and a member of the senior management team of the RU;

29.1.3 if the Dispute has not been resolved within ten (10) Working Days of being referred under Sub-Clause 29.1.2, the matter shall be referred to an Chief Executive Office ("**CEO**") of IM and the Chief Executive Office ("**CEO**") of the RU.

29.2 Nothing in the Dispute Resolution Procedure set out in this Clause 29 shall prevent the Parties or any Party from seeking from any court of competent jurisdiction an interim order restraining the other Parties or any Party from doing any act or compelling the other Parties or any Party to do any act.

29.3 Each of the Parties agrees that it shall act amicably and in good faith for the purpose of resolving any Disputes referred pursuant to this Clause 29. The authorised representatives of the Parties referred to in this Clause 29 shall promptly following the referral of a Dispute, meet (attending in person or via video or telephone conferencing facilities) in order to negotiate and agree the manner in which the Dispute is to be resolved. Each of the Parties shall bear its own costs and/or expenses which are associated with such meetings, negotiations and agreements. For the avoidance of doubt, CIE shall be given notice of all meetings where Dispute is being discussed and shall be entitled to attend.

29.4 The Parties acknowledge that all proceedings, discussions, meetings, negotiations, statements, representations, whether oral or written, made in the course of any attempt to resolve any Dispute under this Clause 29 by any of the authorised representatives of the Parties, at any of the levels of authority described in this Clause 29 above, shall be confidential to the Parties and made without prejudice to the rights of any of the Parties in any litigation, future or pending, or any arbitration or mediation procedure.

29.5 Nothing in the Dispute Resolution Procedure envisaged by this Clause 29 or in the resolution of any Dispute as may be agreed by the Parties shall operate as to constitute a contract amendment or variation of any provision of this Agreement. Any amendment or variation of this Agreement shall only be done in accordance with the provisions of this Agreement.

29.6 If the Parties reach agreement on the resolution of the Dispute, the agreement shall be recorded in writing in document in the Agreed Form and it shall be binding on the Parties once it is signed by their duly authorised representatives.

29.7 If a Dispute that has been referred to an CEO of IM and the CEO of the RU pursuant to Sub-Clause 29.1.3, has not been resolved within twenty (20) Working Days of such referral, the Dispute may be referred to the courts of Ireland by any Party, provided that, subject to Sub-Clause 29.2, the Parties have attempted to resolve the Dispute in good faith by amicable discussion in the manner contemplated by this Clause 29.

30. ENTIRE AGREEMENT

30.1 This Agreement and the documents referred to herein any Collateral Agreement(s) executed, contains the entire agreement between the Parties and contains all the terms upon which the Parties have agreed with respect to its subject matter, and this Agreement supersedes and extinguishes all previous drafts, agreements, contracts and undertakings between the Parties.

30.2 RU acknowledges that it has not been induced to enter into this Agreement by a statement or promise, which this Agreement does not contain.

30.3 IM and/or CIE are not liable in equity, contract or tort or in any other way for a representation that is not set out in this Agreement.

30.4 Nothing in this Clause 30 shall have the effect of limiting or restricting any liability of a Party arising as a result of any fraud.

31. GOVERNING LAW AND JURISDICTION

31.1 This Agreement shall be governed and construed in all respects according to the laws of Ireland.

31.2 The Parties irrevocably agree that the courts of Ireland shall have exclusive jurisdiction to hear and decide any suit, action or proceedings and to settle any disputes which may arise out of or are in connection with this Agreement not resolved by the dispute resolution procedure set out in Clause 29 and, for these purposes, each of the Parties hereto irrevocably submits to the exclusive jurisdiction of the courts of Ireland and irrevocably waives any objection on grounds of venue or forum non conveniens or similar grounds.

IN WITNESS WHEREOF this Agreement is duly executed as a Deed the day and year first here and before written.

SIGNED for and on behalf of by

[RU]

in the presence of:

Witness to signature

Witness' address

Witness' occupation

SIGNED for and on behalf of by

INFRASTRUCTURE MANAGER

in the presence of:

Witness to signature

Witness' address

Witness' occupation

SIGNED for and on behalf of by

CÓRAS IOMPAIR ÉIREANN

in the presence of:

Witness to signature

Witness' address

Witness' occupation

SCHEDULE 1 - SERVICES

Part A – IM Provided Services

As part of this Track Access Contract, RU's shall be entitled to the minimum access package and track access to service facilities and supply of services as set out below:

Minimum Access Package comprises of:

- (a) Handling of requests for infrastructure capacity;
- (b) The right to utilise capacity which is granted;
- (c) Use of running track points and junctions;
- (d) Train control including signalling, regulation, dispatching and the communication and the provision of information on train movement;
- (e) All other information required to implement or operate the service for which capacity has been granted;

Track access to services facilities and supply of services shall comprise, where available:

- (a) Use of electrical supply equipment for traction current, where available
RU may utilise the electrical supply equipment for traction current, the cost of which is included within the Minimum Access Package Tariff.

- (b) Track access to Refuelling facilities;
- (c) Track access to Passenger stations, their buildings and other facilities;
- (d) Track access to Freight terminals;
- (e) Marshalling yards;

RU may utilise the available Train Formation facilities the cost of which is included within Minimum Access Package Tariff.

- (f) Train formation facilities;

RU may utilise the available Train Formation facilities the cost of which is included within the Minimum Access Package Tariff.

- (g) Storage sidings;

RU may utilise the available Storage sidings the cost of which is included within the Minimum Access Package Tariff.

- (h) Track access to Maintenance and other technical facilities

Additional Services

Traction Current

RU will pay for the usage of electricity supply.

Services for exceptional transports and dangerous goods

Path requests for this type of transport must be made with at least 30 days notice because of the need to assess and resolve any incompatibilities with Iarnrod Eireann. The cost associated with processing these applications is included within the Minimum Access Package Tariff.

Part B- RU Services – W.T.T

Ad hoc Request Process

Applicants may request capacity from Iarnród Éireann outside the capacity of the prescribed period if they urgently need capacity for one or more provisional train paths. Ad hoc capacity requests can be made after the capacity application period has ended. Iarnród Éireann will give its decision concerning the capacity request within 5 working days of receiving the application in compliance with S.I. 55 of 2010.

SCHEDULE 2 - CHARGES

[To be inserted following agreement on capacity allocation. A typical Schedule 2 is as set out here-under.]

Track Access Charge

The charging principles are set out in the Iarnród Éireann Network Statement.

(a) Charging System

The tariffs applied to services operating on the network are based on gross tonne kilometres and are as set out in Section 6 of the Iarnród Éireann Network Statement. The typical weight of each train type shall be agreed in advance between the IM and the RU.

(b) Tariffs:

1. Minimum Access Package:

The tariffs for essential services cover the right of access, the right to make train path reservations and the right to run trains on the railway infrastructure, including all services listed in Section 5.2 of the Network Statement.

The track access charge payable for each rail journey is calculated by multiplying the gross tonne kilometres operated by the rate set out in the Network Statement.

The tariff for use of traction power on the DART network is calculated by multiplying the gross tonne kilometres operated by the rate set out in the Network Statement.

The minimum access package charge will be invoiced on a period basis.

2. Track access to facilities:

The Minimum Access Package tariff covers track access to facilities referred to in Schedule 1.

3. Cancellations and additional train paths access charges:

The RU shall be liable for access charges in respect of all train paths attributable to the RU including those operated and service cancellations. The RU shall not be liable for track access charges in respect of service cancellations attributable to the Infrastructure Manager or Force Majeure.

Additional Services

- 1 Traction Current
A specific charge will be imposed for the usage of electricity supply.
- 2 Services for exceptional transports and dangerous goods
The capacity application process associated with exceptional transports and dangerous goods is covered as part of the Minimum Access Package charge.
- 3 Ancillary services
To be agreed between the parties following agreement on the scope of the service to be supplied.

Additional services will be included in the Track Access Charge invoice on a period basis.

Performance Regime Charge

A performance regime charge will be invoiced on a period basis.

Disruptive Possession Management Charge

A disruptive possession management charge will be invoiced by the RU to the IM on a period basis.

Changes to charges

The IM (following consultation with the EFB) will state the track access charges applicable prior to the publication of future Network Statements.

Billing Arrangements

Iarnród Éireann's financial system operates on a 13 x 4 week period basis. Railway Undertakings will be invoiced on a period basis in arrears. Invoices shall be paid within 30 days of the invoice date.

The invoice shall contain a statement of amount payable and shall contain such detail as shall be necessary or expedient so as to enable the person to whom it is given to understand, check it and arrange payment.

The period invoice will incorporate the financial impact of the performance and disruptive possession management regimes and any other additional services agreed between the IM & RU.

All payments shall be made entirely in Euro and shall be made by electronic funds transfer ("EFT").

SCHEDULE 3 - OPERATING RULES

1. The Rule Book, available on request to: networkaccess@irishrail.ie.
2. The Working Time Table
3. General Appendix to the WTT

(f)

SCHEDULE 4 - SMS 16 & 17 COMMUNICATION PROTOCOLS FOR SAFETY ISSUES

[Available on request from networkaccess@irishrail.ie]

SCHEDULE 5 - DETAILS OF CONTRACT MANAGERS

DETAILS OF CONTRACT MANAGER – RU

Name :

Address:

Email:

Direct Telephone Number/Mobile:

Office Telephone Number:

Fax Number:

DETAILS OF CONTRACT MANAGER – IM

Name :

Address:

Email:

Direct Telephone Number/Mobile:

Office Telephone Number:

Fax Number:

SCHEDULE 6 - CHANGE AUTHORISATION ORDER

Change Authorisation Order

DATE: [] [] 20[]. CAO NO: []

TRACK ACCESS CONTRACT FOR SERVICES ON THE IARNROD EIREANN – IRISH RAIL NETWORK DATED THE [] DAY OF [] 20[] BETWEEN [] (THE "RU"), INFRASTRUCTURE MANAGER ("IM") AND CÓRAS IOMPAIR ÉIREANN ("CIE") (THE "CONTRACT").

Contract Reference:

Defined Terms used in this Change Authorisation Order shall have the same meaning as is given to them in the Contract unless expressly stated otherwise. This Change Authorisation Order is governed by the laws of Ireland.

To: [RU full name /IM]

Address: []

Copy to: CIE

Address: []

The Parties hereby agree, in accordance with Clause 19 of the Contract, to make the following alterations to the Services or Infrastructure as detailed in this CAO below. The Changes shall be incorporated into the Contract.

1. NATURE OF THE ALTERATIONS AUTHORISED BY THIS

CAO:

Originator of Change Request: _____

Reason for Change:

Description of Change:

Enclosures/Attachments to this CAO (if any) (list them here)

[]

2. CHARGES

Net increase /decrease if any resulting from this CAO:

REVIEWED & ASSESSED BY THE RU:

RU's Contract Manager

[NAME] [TITLE]

APPROVED BY THE RU:

RU CEO (When IERU – Director RU

[NAME] [TITLE]

Dated: [] [] 20[]

Witness to signature:

Witness Address:

Witness Occupation:

REVIEWED & ASSESSED BY THE IM:

IM Contract Manager

[NAME] [TITLE]

APPROVED BY THE IM:

Director IM

Dated: [] [] 20[]

Witness to signature:

Witness Address:

Witness Occupation:

SCHEDULE 7 - PERFORMANCE REGIME

The following should be read in conjunction with the Agreement in particular clause 9 and 10. This Performance Regime shall not be deemed to be an exclusive remedy and shall be without prejudice to any of IM's other rights in this Agreement in respect of any of the following;

1. Incidents of Delay caused by RU:

The operation of the Performance Regime is based on a threshold of Delay Minutes per Network

Route.

The Delay Minutes threshold per Network Route will be set out in a table to this Schedule, Schedule 7 (Performance Regime). Although the current system captures all delay minutes the process only attributes those minutes above an initial 5 minute threshold, as 'Delay Minutes', as trains that arrive within 5 minutes of their scheduled time are considered on time

Initial Threshold: Where the RU exceeds their threshold on a particular route the Liquidated Damages of 2% of the applicable Minimum Access Package Charge for the route shall be imposed.

Incremental Liquidated Damages over Initial Threshold: If the RU exceeds their threshold of Delay Minutes on a particular route incremental Liquidated Damages will be applied as follows: The Incremental Liquidated Damages will be capped at a further 1% of the applicable Minimum

Access Package Charge.

2. Incidents of Delay caused by the IM:

The operation of the Performance Regime is based on a threshold of Delay Minutes per Network Route.

Initial Threshold: Where the IM's performance results in a breach of the IM Delay Minute threshold, the RU will receive a 2% discount to the applicable Minimum Access Package Charge in order to encourage performance improvement.

Incremental Liquidated Damages: The IM is subject to an incremental performance regime to be applied above the Initial Threshold and capped at an additional 1% of the applicable Minimum Access Package Charge.

3. Delay Minute Attribution Process ;

The proposed process for dealing with minutes in dispute is set out below:

Stage 1: Delay Minutes are allocated against the root cause delay code by the IM (CTC Timekeeping Clerk and input into TOPs); **Stage 1: takes place on the day in question and is completed by 9am the following morning.**

Stage 2 : Staff from the IM Operations Performance & Control Dept. review the delay causation data in TOPs and by means of telephone conversations with the relevant personnel in the RU Organisations seek agreement of the allocation ; **Stage 2: commences 11.00am the following day and should be completed by close of business on that day.**

Stage 3: If agreement cannot be reached on any incidents in stage 2 all relevant reports are requested by IM Operations Performance & Control Dept. Also the organisation disputing the allocation has to send an email to the IM Operations Performance & Control Dept. manager outlining the reasons for the dispute; **Stage 3: commences once stage 2 is complete and must be completed within 3 working days.**

Stage 4: Once the relevant reports and emails have been received IM Operations Performance & Control Dept. Manager contacts the organisation disputing the allocation to review evidence and come to an agreement on the allocation of minutes. If agreement cannot be reached, the IM Operations Performance & Control Dept. manager contacts nominated organisation's representative to review evidence. If agreement still cannot be reached, the issue is escalated to stage 5; **Stage 4: (which deals with a full week of disputes) completed within 3 working days.**

Stage 5: The IM Operations Performance & Control Dept. manager compiles all the relevant data and positions and passes it on to the relevant Senior Managers (in advance) for discussion and agreement at the 'Minutes In Dispute (MID)' resolution meeting. The result of this ruling is then communicated to the relevant organisations and the necessary adjustments are made in TOPs. If agreement still cannot be reached issue is escalated to the final stage 6.

Stage 6: Final level of dispute escalation – MID resolution meeting is taken place between the IM CEO and the CEO of the relevant RU. In the case of a Stage 6 dispute between the IM and IERU then a meeting is chaired by the IE CEO and a decision on delay attribution made.

Table of Delay Minutes per Network Route (to be completed post completion of Working Timetable)

Party	Route	Threshold of Delay Minutes (Periods 1- 6)	Threshold of Delay Minutes (Periods 7 – 13)	Total Annual Threshold of Delay Minutes
IM	Cork			
	Limerick			
	Tralee			
	Galway			
	Westport			
	Limerick / Limerick Junction			
	Ballybrophy			
	Heuston Commuter			
	Belfast			
	Sligo			
	Rosslare			
	Limerick Junction / Waterford			
	Maynooth Commuter			
	Northern Commuter			
	DART			
RU	Cork			
	Limerick			
	Tralee			
	Galway			
	Westport			
	Limerick / Limerick Junction			
	Ballybrophy			
	Heuston Commuter			
	Belfast			
	Sligo			
	Rosslare			
	Limerick Junction / Waterford			
	Maynooth Commuter			
	Northern Commuter			
	DART			

SCHEDULE 8 - DISRUPTIVE POSSESSION MANAGEMENT PROCESS AND REQUIREMENTS

This schedule sets out the time planning and financial compensation procedures and requirements associated with Disruptive Possessions.

Three categories of Disruptive Possession were identified:

Category 1 – Planned Disruptive Possession;

Category 2 – Unplanned Disruptive Possession with notice; and

Category 3 – Unplanned Disruptive Possession due to an unforeseen event.

Category 1: Planned Disruptive Possession - Identified during the Track Capacity Allocation Process

The optimum approach is for the planning process for Maintenance & Renewals and Capital Enhancement activities to identify the requirement for disruptive possessions during the Track Capacity Allocation process.

A description of the timescales of such a process to identify ‘Category 1: Planned Disruptive Possessions’ is set out below:

Category 1: Planned Disruptive Possession:

The IM publishes the Network Statement to commence the track capacity allocation process for the following year.

RUs request capacity allocation based on a ‘full availability’ basis.

During Capacity Allocation Assessment period the IM incorporates the impact of planned disruptive possessions to the capacity allocation process.

The impact of the planned disruptive possessions on any RU to be agreed.

Each RU’s part of the WTT will form part of the IM / RU Track Access Agreement.

If the above process is followed the WTT will take account of planned disruptive possessions and the RUs will be able to communicate and commercially engage with their passengers via the publication of annual timetables with confidence.

The WTT will form the baseline for the operation of the performance management system of the Track Access Agreement.

For **Category 1 Planned Disruptive Possession**, the financial compensation to the RU will be limited to the cost of bus\car hire inclusive of VAT (where alternate bus\car service has been provided).

Note: The IM also forgoes any track access charge

38

Category 2: Unplanned Disruptive Possession, with notice - Disruptive Possessions identified during WTT period

Should the requirement for disruptive possessions be identified during a WTT period then a professional communication process with the travelling public needs to be undertaken which keeps them informed. Such a process requires the passengers to be provided with minimum notice periods of changes to the published timetable. A description of the process for ‘Category 2: Unplanned Disruptive Possessions’ is set out below:

Category 2: Unplanned Disruptive Possession, with notice:

Any changes to published passenger train times must be advised to the passengers **12 weeks** in advance. Therefore, if a situation arises in which the IM requires a planned disruptive possession during a WTT period the following process must be followed, where T = start of period of disruption:

T -26 weeks = Period Possession Plan produced and issued to RUs.

T- 18 weeks = Service amendment proposals produced by RUs.

T- 14 weeks = Amended train service finalised.

T-12 weeks = Amended train service published.

For **Category 2 Unplanned Disruptive Possession, with notice** the financial compensation to the RU is limited to:

- Category 1 compensation elements.
- All communication costs arising such as posters, local press, media or any advertising.
- All communication costs arising post the disruption (as part of any welcome back promotion).
- Revenue loss minus the above costs already borne by the IM. (Approach for determining

revenue loss is: *For the period of disruption, the average applicable revenue for a comparable period will be assessed and compared to the revenue earned during the disruption. The comparable period will be the average revenue or fare increases. In addition, for the period after the disruption (limited to 4 weeks), a similar analysis will be performed and an assessment of continuing loss will be calculated.*)

Category 3: Unplanned Disruptive Possession, due to an unforeseen event – Disruptive Possessions identified during WTT period

The requirement for disruptive possession is due to an unplanned, unforeseen event, but falling outside the Force Majeure definition, with no notice period or alternative approach but the immediate imposition of a disruptive possession being available to rectify the situation.

Category 3 Unplanned Disruptive Possession, due to an unforeseen event the financial compensation is limited to:

- Category 1 compensation elements;
- Category 2 compensation elements excluding the revenue loss element;

RU to IM Financial Compensation

In the situation where costs are incurred arising from any curtailment of a disruptive possession due to late running of a train, when the cause of the late running is attributed to the RU, then it is proposed that the actual reasonable loss incurred by the IM is passed to the RU.

SCHEDULE 9 - INSURANCE REQUIREMENTS

Insurance levels are specific to each individual contract and are dependent on the capacity allocated to the RU.

TO BE ADVISED BY BROKERS/ GROUP SECRETARYS OFFICE

SCHEDULE 10 - NOTICES

The RAILWAY UNDERTAKING

Company:

Incorporated under the laws of:

Registration Number:

Address of Registered Office

Notices

If to the RU to:

Address:

Fax:

Phone:

Marked for the attention of:

If to IM, to:

Address: []

Fax:

Phone:

Marked for the attention of:

In the case of Córas Iompair Éireann:

To: Córas Iompair Éireann

Address: CIE, Heuston Station, Dublin 8, Ireland

Phone:

Fax:

Marked for the attention of: CIE Group Secretary

SCHEDULE 11

IM STANDARD COLLATERAL AGREEMENT

THIS SUB-CONTRACTOR'S COLLATERAL AGREEMENT IS MADE THE [] DAY OF [] 20[]

("COLLATERAL AGREEMENT")

BETWEEN:

1. [Insert full legal name of Sub-Contractor - in **bold print** and in capitals, a [identify legal status e.g. limited liability company] partnership]limited liability partnership] incorporated under the laws of [insert country] under registration number [insert registration number] having its registered office at [insert registered office address] (hereinafter called the "**Sub-Contractor**" which expression shall include its successors and assigns) of the First Part;

2. **INFRASTRUCTURE MANAGER** of the Second Part;

3. **CÓRAS IOMPAIR ÉIREANN**, a statutory body having its offices at Heuston Station, Dublin 8, Ireland (hereinafter called "**CIE**" which expression shall include its successors and assigns) of the Third Part;

(the Parties of the Second and Third Parts are herein collectively referred to as the "**Beneficiaries**" or a "**Beneficiary**" respectively) and

4. **NAME OF RU**, [a company incorporated with limited liability] (hereinafter called the "**RU**" which expression shall include its successors and assigns) of the Fourth Part.

WHEREAS:

A. By a contract in writing made between IM, CIE, and RU on or about the [] day of [] in respect of Track Access Contract for Services on the Iarnrod Eireann – Irish Rail Network (the "**Contract**"), the RU has been allocated capacity on the Iarnrod Eireann – Irish Rail Network as more particularly detailed and defined in the Contract.

B. By agreement in writing dated [] [] 20[] the RU has appointed [insert correct legal name of Sub-Contractor as in 1 above] as its Sub-Contractor for the provision of certain Services thereunder (the "**Sub-Contract**"). The RU agreed to procure that its Sub-Contractor would provide a collateral warranty in the form of this agreement to each of the Beneficiaries in the form set out in the Contract and the Sub-Contractor has agreed to enter into this Collateral Agreement with the Beneficiaries.

C. Capitalised terms used herein and not otherwise defined in this Collateral Agreement shall have the same meaning in this Collateral Agreement as is given to them in the Contract unless expressly stated otherwise. Heading and sub-heading inserted in this Collateral Agreement are inserted for reference only and shall not be taken into consideration in the interpretation or construction of this Collateral Agreement.

NOW in consideration of the sum of €10.00 paid by each of the Beneficiaries to the Sub Contractor (receipt and sufficiency of which is hereby acknowledged) **IT IS HEREBY AGREED** as follows:-

1. The Sub-Contractor hereby represents and warrants and covenants and undertakes with each of the Beneficiaries that:-

1.1 It has not broken and will not break any express or implied term of the Contract insofar as such terms apply to its capacity on the Network and the provision of certain services being provided by the Sub-Contractor as set out in the sub-contract ("**Services**");

1.2 It has and will carry out its duties with all the reasonable skill, care and diligence to be expected of a professional qualified, skilled and experienced person in providing services to projects of a similar nature, size and scope as the Services;

1.3 In carrying out any of the Services it will comply with the Network Statement and the

W.T.T. and as set out in clause 2 of this Collateral Agreement;

1.4 It is a duly constituted [*insert legal status*] entitled to carry on business as a [*insert legal status*] under the laws of [*insert country*] and entitled to services of the type contemplated by the Contract and has complied with and obtained all such registrations, approvals, permits, consents, authorisations, licences, as are necessary for it to do so;

1.5 It is a separate legal entity subject to suit in its own name;

1.6 It has all requisite power and authority and all necessary corporate and other action has been taken to enable it to execute as a deed under seal and deliver this Collateral Agreement;

1.7 The authorised signatory for the Sub-Contractor for this Collateral Agreement has [have] the power and authority to bind the Sub-Contractor through the execution of this Collateral Agreement;

1.8 Each of its personnel is duly skilled and trained and suitably competent and experienced to provide services of the type contemplated by the Contract;

1.9 Neither the Sub-Contractor nor any of its members/employees/personnel have been disbarred or prevented at Law from providing the services of the type contemplated by the Contract nor are under any impediment to do so and no circumstance, litigation, pending or threatened litigation, arbitration, dispute or regulatory process or order exists or is in train which would prevent any of them from providing the Services;

1.10 It will ensure that for the duration of the Contract, all personnel nominated by it have and shall have the appropriate qualifications, skill and experience, and any requisite authorisations or certifications necessary to enable such personnel to perform the Services;

1.11 It has a current up to date Tax Clearance Certificate which it will make available to IM and it will maintain a current and up to date Tax Clearance Certificate at all times for the duration of the Contract and make it available to IM;

1.12 It will provide to IM, if requested, a legal opinion on due execution and enforceability of this Collateral Agreement by it from a practising lawyer acceptable to IM (at IM's sole discretion) and in a form and content acceptable to IM (in its sole discretion) at no cost to IM;

1.13 it will comply with all applicable employment law and regulations applicable in Ireland in relation to its personnel, servants or agents.

2. Insofar as the obligations relate to the Services being provided by the Sub-Contractor, the Sub-Contractor shall owe the same obligations to each of the Beneficiaries that the RU owes to IM and to CIE in respect of those Services under the Contract.

3. The Sub-Contractor acknowledges that the RU shall be responsible for any fees of the Sub-Contractor in connection with the delivery of the Services and neither IM nor CIE shall have any responsibility or liability to the Sub-Contractor whatsoever in respect thereof, other than in respect of IM only where "step-in" has taken place in accordance with the provisions of Clause 8 of this Collateral Agreement.

4. The Sub-Contractor shall maintain in its own name the Insurances as set out in the Contract for the duration of the Contract and as required by the Contract. The Sub-Contractor warrants to each of the Beneficiaries that the premiums for the current period of insurance have been duly paid to the insurer. As and when the Sub-Contractor is reasonably requested to do so by either

one or both of the Beneficiaries, the Sub-Contractor shall produce for inspection sufficient documentary evidence that the Insurances required under this Clause 4 and the Contract Agreement are being maintained in accordance with the terms of this Collateral Agreement.

5. The Sub-Contractor shall have no greater liability to any Beneficiary than the RU shall have to IM and CIE under the Contract.

6. Each of the Beneficiaries shall be entitled at any time to assign the benefit of this Collateral Agreement by way of absolute legal assignment to as the Beneficiary thinks fit without the consent of the Sub-Contractor. Notwithstanding any other provision of this Collateral Agreement, if either Beneficiary and/or the Government of Ireland should re-organise the business of either Beneficiary (whether by dividing or transferring its business between two or more corporate bodies, or state agencies or otherwise), the obligations of either Beneficiary may be divided or transferred between such bodies or state agencies, and the Sub-Contractor shall thereafter deal with such bodies or agencies as if the parts of this Collateral Agreement relevant to the business of such bodies or agencies formed a contract between the Sub-Contractor and such corporate bodies or state agencies. For the avoidance of doubt, in the event of the provisions of this Clause applying, such bodies or state agencies shall be entitled in whole or in part to the rights and remedies to which each Beneficiary is entitled under this Collateral Agreement.

7. STEP IN

The following provisions shall apply in relation to step-in under this Collateral Agreement:

7.1 IM has no authority under this Collateral Agreement to issue any instruction to the Sub-Contractor in relation to the Sub-Contractor's performance of any of the Services or its obligations under this Collateral Agreement unless and until IM has given notice of step-in under Sub-Clause 8.4 of this Collateral Agreement.

7.2 The Sub-Contractor agrees that it will not, without first giving each of the Beneficiaries at least thirty(30) days' written notice, exercise any right of termination of the Sub-Contract, or treat the Sub-Contract as having been repudiated or its appointment as a sub-contractor of the RU as terminated or repudiated, or exercise any right it may have to discontinue or suspend the performance of the Services or any part of them under the Sub-Contract without first giving such notice to each of the Beneficiaries. The notice to each of the Beneficiaries must be accompanied by all of the information required by Sub- Clause 8.3 of this Collateral Agreement and must specify the Sub-Contractor's grounds for terminating or treating as terminated or repudiated the Sub-Contract or discontinuing or suspending its performance thereof or treating the Sub-Contract as determined, discontinued, suspended or repudiated. The Sub-Contractor's rights of termination (and all similar such rights including any rights of suspension or to treat the Sub-Contract as repudiated) will cease if, within the thirty (30) day period, IM gives notice to the Sub-Contractor under Sub-Clause 8.4 of this Collateral Agreement.

7.3 The Sub-Contractor shall, if so required by IM or CIE at any time, give to each of the Beneficiaries or any one of them, a certified copy of the Sub-Contract together with any amendments relating thereto, full particulars of the amounts paid to the Sub-Contractor under the Sub-Contract, full particulars of amounts due and unpaid to the Sub-Contractor and owing by the RU to the Sub-Contractor, full particulars of amounts remaining to be paid to the Sub-Contractor under the Sub-Contract but not yet due, and any information requested by IM that is relevant to these amounts.

7.4 NOTICE OF STEP IN: The Sub-Contractor agrees that if IM gives notice of step in under this Sub-Clause 8.4 of this Collateral Agreement requiring the Sub-Contractor to accept IM's instructions to the exclusion of the RU, the Sub-Contractor shall deal with an accept such instructions solely from IM in substitution for the RU as if IM has appointed the Sub-Contractor originally on the terms of the Sub-Contract. Within thirty (30) days of the Sub-Contractor's notice under Sub-Clause 8.2 of this Collateral

Agreement, or if the Sub-Contract shall be automatically determined howsoever arising pursuant to any of its provisions, within thirty (30) days of such automatic determination, IM may give written notice to the Sub-Contractor (herein referred to as a “**Notice of Step-In**”) that IM or its appointee shall henceforth become a party to the Sub-Contract in accordance with the terms of this Sub-Clause 8.4.

7.5 With effect from the date of the service of any Notice of Step-In issued by IM:

7.5.1 IM or its appointee shall be substituted in the Sub-Contract in place of the RU and references in the Sub-Contract to the RU shall be construed as references to IM or its appointee;

7.5.2 upon, but not before the giving of the Notice of Step-In (without prejudice to anything contained herein or in the Contract) the Sub-Contractor shall accept the instructions of IM or its appointee to the exclusion of the RU in respect of the performance of the Sub-Contract or, if required by IM, upon the terms and conditions of a new contract between the Sub-Contractor and the Beneficiaries in the same terms (as nearly as may be) as the Sub-Contract;

7.5.3 the Sub-Contractor shall be bound to continue with the performance of its duties and obligations under the Sub-Contract and any exercise or purported exercise by the Sub-Contractor prior to the date of the Notice of Step-In of any right to terminate or treat as terminated the Sub-Contractor to discontinue, repudiate or suspend the performance of any of its duties or obligations thereunder or to treat the Sub-Contract as automatically determined shall be of no effect;

7.5.4 All obligations of the Sub-Contractor to the RU under the Sub-Contract whether in respect of matters arising before or after the giving of a Notice of Step-In shall be deemed to be obligations to the Beneficiaries as if they had been at all relevant times parties to the Sub-Contract in place of the RU.

7.5.5 Except as otherwise provided herein, IM shall become bound by the terms and conditions of the Sub-Contract in respect of all obligations and duties of the RU thereunder which fall to be performed after the date of the Notice of Step-In **PROVIDED THAT** neither IM nor CIE shall be liable for any obligation or liability of the RU under the Sub-Contract prior to the date of Notice of Step-In and neither IM nor CIE shall be liable to discharge any sum or amount as may be owing to the Sub-Contractor by the RU pursuant to the Sub-Contract prior to or at the date of the Notice of Step-In. The RU shall at all times remain liable to the Sub-Contractor for all amounts payable to the Sub-Contractor under the Sub-Contract at or prior to the Notice of Step-In and for performance of the RU’s obligations under the Sub-Contract at or prior to the date of the Step-In Notice notwithstanding the issue of the Notice of Step-In by IM;

7.5.6 the RU shall be released from further performance of its duties and obligations under the Sub-Contract after the date of the Notice of Step-In but without prejudice to any rights and remedies of the Sub-Contractor against the RU in respect of any matter or thing done or omitted to be done by the RU on or before the date of the Notice of Step-In;

7.5.7 the Sub-Contractor agrees that it shall not exercise any of its Intellectual Property rights which it owns or to which it is entitled, so as to prevent IM or any appointee of IM, from exercising its rights under any Notice of Step-In that has been served by IM;

7.5.8 the Sub-Contractor shall take all such action as shall be necessary or expedient to cooperate with IM in the exercise by IM of its rights under any

Notice of Step-In that has been served by IM;

7.5.9 Notwithstanding anything contained in this Collateral Agreement and notwithstanding any payments which may be made by IM to the Sub-Contractor, IM shall not be under any obligation to the Sub-Contractor unless IM shall have served a Notice of Step-In pursuant to this Collateral Agreement. CIE shall have no liability whatsoever in respect of any payment to the Sub-Contractor. In no circumstances shall IM or CIE be liable for the performance of any obligations of the RU under the Sub-Contract.

8. Any notice to be given under this Collateral Agreement must be in writing and will be considered given if delivered by hand, courier or sent by recorded post to the address of the relevant party at the top of this Collateral Agreement or at any other address the relevant party may specify by written notice to the other parties, marked for the attention of each of the following in the case of each of the Beneficiaries at the address stated at the top of this Collateral Agreement in respect of each Beneficiary: A notice will be taken to have been received on the date shown in a signed receipt for due delivery by hand, courier or recorded post.

IM:- [];

CIE:- Attention of the Group Secretary;

Sub-Contractor: []

RU: []

9. Nothing in this Collateral Agreement limits either Beneficiary's rights at law.

10. This Collateral Agreement shall be governed by and construed in accordance with the laws of Ireland. The Sub-Contractor and each of the Beneficiaries hereby irrevocably submit to the exclusive jurisdiction of the courts of Ireland for all purposes in connection therewith.

11. The Sub-Contractor shall not assign, novate, transfer or otherwise dispose of the whole or any part of this Collateral Agreement or any of the Sub-Contractor's rights, benefits or obligations to, in or under this Collateral Agreement without IM's prior written consent in writing.

12. Each of the provisions of this Collateral Agreement is severable and if any time on or more of the provisions of this Collateral Agreement is or becomes invalid, illegal, void or unenforceable in whole or in part, such term, provision or part shall to the extent of such invalidity, illegality, or unenforceability be deemed not to form part of this Collateral Agreement, validity, legality, enforceability of the remaining provisions of this Collateral Agreement shall not in any way be affected or impaired thereby.

13. If there is any conflict between the provisions of this Collateral Agreement and the Contract, this Collateral Agreement shall take precedence in relation to any matter concerning the Sub-Contractor.

14. This Collateral Agreement expires twelve (12) years from the completion of the Services or Additional Services (as defined in the Contract and as determined by IM) or from the date of termination of the Contract whichever is the earlier except for any claim by IM or CIE of which notice and particulars have previously been given to the Sub-Contractor before the expiration of the twelve (12) year period aforesaid.

IN WITNESS WHEREOF this Collateral Agreement is duly executed as a Deed on the day and year first here and before written.

PRESENT WHEN THE COMMON SEAL

of []

(Sub-Contractor)

was affixed hereto: _____

Director

Witness:

Address: _____

Director/Secretary

Occupation:

SIGNED for and on behalf of
INFRASTRUCTURE MANAGER

1 Must be executed under seal in the case of an Irish registered company

In the presence of: _____

Authorised Signatory

[name] [title]

Witness:

Address:

Occupation:

SIGNED for and on behalf of
CÓRAS IOMPAIR ÉIREANN

In the presence of _____

GERALDINE FINUCANE

Group Secretary, CIE

Authorised Signatory

Witness:

Occupation:

Address:

EXECUTED AS A DEED BY

(the RU) in the presence of:

Witness:.....

Director

NAME:[]

Witness name:.....

Director/Secretary

Witness address:.....

NAME:[]

Witness occupation:

DATED 20[]

(1) []

(the “RU”)

and

(2) INFRASTRUCTURE MANAGER

(“IM”)

and

(3) CÓRAS IOMPAIR ÉIREANN

(“CIE”)

**GENERAL TERMS AND CONDITIONS FOR
TRACK ACCESS FOR SERVICES
ON IE NETWORK**
