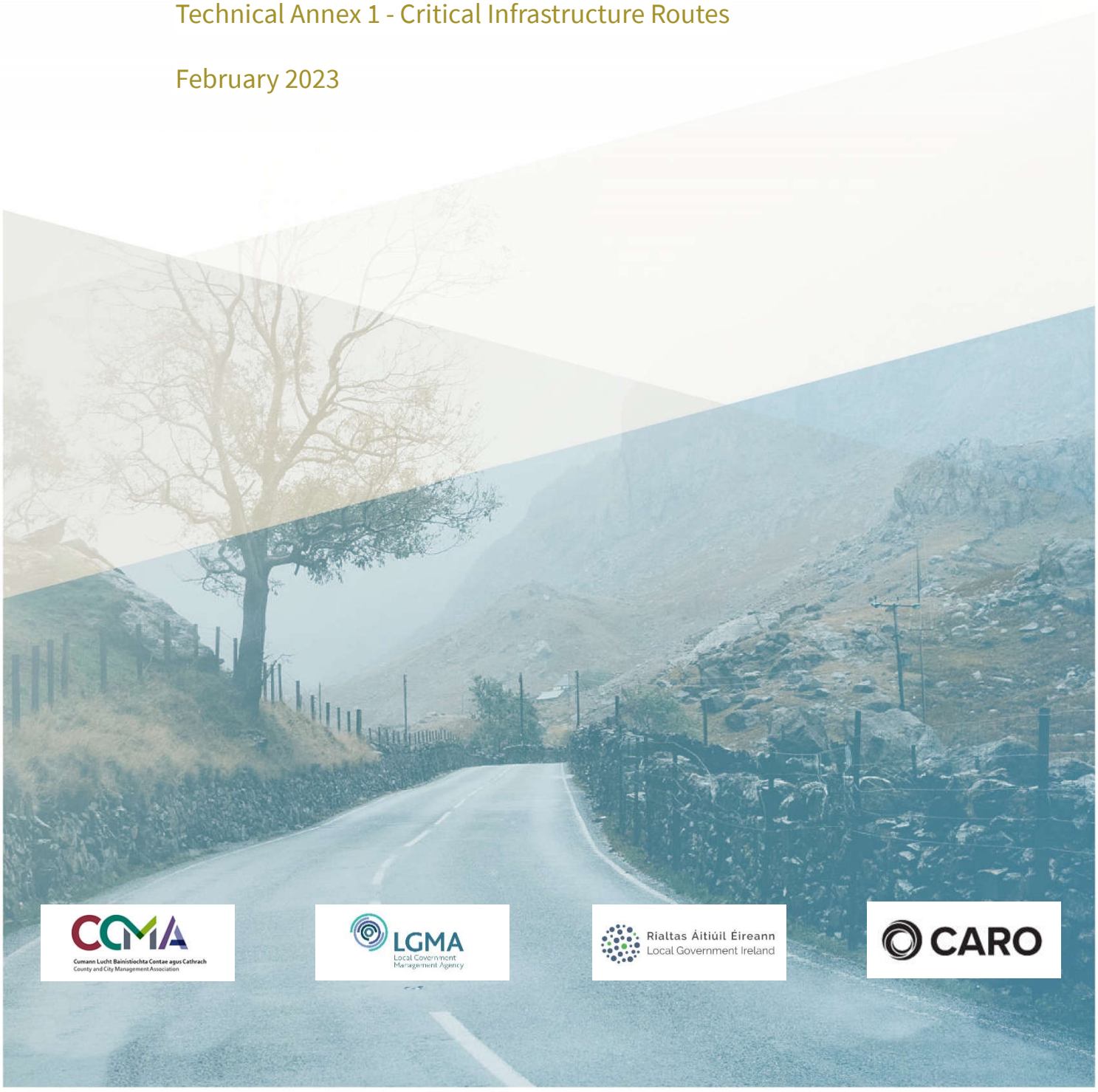
An Roinn Iompair
Department of Transport

Climate Adaptation Strategy for Regional & Local Roads

Technical Annex 1 - Critical Infrastructure Routes

February 2023



CCMA Cumann Lucht Bainistiochta Contae agus Cathrach County and City Management Association

LGMA Local Government Management Agency

Rialtas Áitiúil Éireann Local Government Ireland

CARO

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Purpose

The purpose of this document is to define a process which Local Authorities can use to identify Critical Infrastructure Routes.

Critical Infrastructure Routes are those parts of the Regional and Local road network which are of greatest importance from a social, economic or emergency response perspective.

Background

The Department of Transport (DoT) has published their *Climate Adaptation Strategy for Regional and Local Roads* which sets out the steps that should be taken by the Local Authority sector to ensure the climate resilience of assets which make up the Regional and Local road network in Ireland.

The measures proposed in that document are mainly based on making incremental changes to existing operation and maintenance processes in order to deliver climate adaptation, such as:

- Identifying the types of climate related failures that occur most commonly.
- Identifying where these failures have occurred in the past and the areas of the network which may be most vulnerable to them in the future.
- Inspecting these locations progressively starting with those which are highest risk.
- Developing potential schemes to improve climate resilience.
- Prioritising these schemes using a cost-benefit approach.
- Implementing these schemes.
- Monitoring effectiveness and continually improving the process.

Even though this approach is based on making relatively modest enhancements to the existing processes, it is nevertheless a challenge to roll this out across the entire Regional and Local road network.

In order to assist Local Authorities in the implementation of the required climate adaptation measures, the DoT has developed a methodology for identifying those parts of the network which are of greatest importance from a social, economic, and emergency response perspective. These are known as Critical Infrastructure Routes.

This will assist the rollout of climate adaptation measures by enabling Local Authorities to concentrate early efforts on the most critical elements of the network. Knowing which parts of the network are most critical will also assist in broader decision making and policy development in the future. For example, the location of Critical Infrastructure Routes may be used by the DoT when allocating funding to Local Authorities under certain funding streams.

Scope

The scope of what should be considered when developing this methodology for identifying Critical Infrastructure Routes was defined follows:

- *Critical Infrastructure Routes are defined as the critical access routes within a network and their attendant infrastructure (such as bridges) that provide an essential service for the daily life of communities and upon which both socio-economic wellbeing and effective emergency response depends.*
- *During an emergency event, Critical Infrastructure Routes play an important role by ensuring accessibility of emergency assistance to affected areas, access to health facilities, power stations and to all the other strategic facilities and the continuation, after the emergency, of the productive activities of a given region.*
- *Proper planning and maintenance of Critical Infrastructure Routes prevent many of the harmful effects induced by extreme weather events.*

Based on this, the two main criteria which will determine whether a particular section of the road network should be categorised as a Critical Infrastructure Route are (i) whether the route is important for social or economic reasons; and (ii) whether the route is important for emergency response reasons.

Research and Consultation

Before developing the methodology, research was undertaken to identify whether there was already an existing process for the identification of critical routes in a public road network in a similar jurisdiction.

As part of this research, the following documents were reviewed.

- *Application of Multi Criteria Decision Making (MCDM) Approach to Evaluate Strategic Importance of Lifeline Components* published by Disaster Research Nexus (October 2012).
- *National Investment Framework for Transport in Ireland, Background Paper 12: Rural and Regional Accessibility* published by the Department of Transport.
- *Strategic Emergency Management Guideline 3 - Critical Infrastructure Resilience - Version 2* published by the Department of Defence (July 2021).
- *Strategic Emergency Management Guideline 4 - Climate Change Adaptation* published by the Department of Defence (December 2020).

This methodology was developed in consultation with the project working group which included representatives from the DoT, the City & County Management Association's Climate Action & Transport Networks (CCMA CATN) committee, 5 Local Authorities, Munster Technological University (MTU), the Road Management Office (RMO) and the Climate Action Regional Office (Atlantic Seaboard South).

The research and consultation process established a number of key points, and these are described below.

There is limited literature available, for similar jurisdictions to Ireland, relating to the identification of critical sections of a road network from a social, economic, or emergency response perspective.

Most available literature deals with issues which are more specific (such as seismic events on bridges) or issues such as the identification of all infrastructure which is of national importance such as telecommunications, policing or financial services. These are subject to analysis by a broader stakeholder group and outside the remit of this project.

The *National Investment Framework for Transport in Ireland, Background Paper 12: Rural and Regional Accessibility* examines the impacts of route closures in the context of National Secondary roads in Ireland based on the use of the National Transport Model. The complexity of the Regional and Local road network means that a similar approach is not feasible in this case.

The same document considers road criticality based on the length of diversion while ignoring traffic volumes. This captures small communities which are disproportionally impacted if a route was to close thus requiring a long diversion. This could have emergency response implications in cases where ambulance or fire service is required.

Local Authorities have already established Winter Routes which have been classified as Priority 1, Priority 2, and Priority 3 based on importance. It was accepted by the working group that these are already an effective way to identify and classify routes in terms of their social and economic importance.

Guiding Principles

Based on the outcomes from the research and consultation, and number of guiding principles were agreed with the working group, and these were used as the basis for developing this methodology.

1. The methodology should concentrate on the emergency response aspects. In this way, the Winter Routes could be used in parallel with the Critical Infrastructure Routes which will be identified by this methodology, to address both socio-economic and emergency response functions.
2. Critical Infrastructure Routes should be identified based on Strategic Facilities which serve an important emergency response, social or economic function. Routes should then be identified which provide a reliable / resilient access from such facilities, and from island or isolated communities, to the wider road network.
3. The methodology should assume that the National road network is already reliable, in good condition, well maintained, and has good resilience (e.g. via alternative routes). Therefore, reliable access need only be identified from Strategic Facilities to the National road network as this will ensure good connectivity to the wider road network.
4. In urban areas, the density of the Regional road network is such that a simpler approach might be justified. In these situations, connecting Strategic Facilities to the Regional road network might be sufficient if the Regional road network is dense enough that it provides multiple viable onward connections back to the National road network.

For example, Figure 1 shows the RNLI lifeboat station in Skerries in Fingal, County Dublin. In this case, the Critical Infrastructure Route extends to the Regional road network at the R127/R128. This was considered sufficient as there are multiple viable options to reach the M1 using Regional roads from this point and this redundancy provides sufficient resilience as the probability that all of these options would be unavailable at the same time is low.

Figure 1

The Methodology

Based on the guiding principles listed above, a methodology for identifying Critical Infrastructure Routes has been developed as follows:

1. Identify all of the following Strategic Facilities in the area in question.
    a. Local Authority Maintenance Depots
    b. RNLI Lifeboat Stations
    c. Hospitals / Ambulance Centres
    d. Ports
    e. Food Distribution Centres
    f. Fire Stations
    g. Power Stations
    h. Island or isolated communities with only one road access route.

2. Identify Critical Infrastructure Routes which will connect each of these Strategic Facilities to the wider road network as follows:

    a. In rural areas, the Critical Infrastructure Routes should be the shortest practical routes which connect Strategic Facilities to the National road network.

    b. In urban areas, the Critical Infrastructure Routes should be the shortest practical routes which connect the Strategic Facilities to the Regional road network.

    c. In all areas, bridges and causeways which are the only road access to island communities should be designated as Critical Infrastructure Routes. The Critical Infrastructure Route in these cases should extend to the next road junction on either side of the bridge or causeway.

    d. In all areas, roads which are the only access to isolated communities should be designated as Critical Infrastructure Routes. In this case, consideration of local circumstances is critical and should take account of the number of houses impacted and the level of difficulty that would be required to construct a temporary alternative access on an emergency basis. As a guide, roads which are the only access to more than 20 houses, and where the construction of an emergency access would be impractical, should be designated as Critical Infrastructure Routes unless agreed otherwise with the DoT.

Verification of the Methodology

In order to verify the outcomes, the methodology described above was implemented in three test areas i.e. the Municipal District of West Clare, the Municipal District of Loughrea and in Fingal County Council. These areas were chosen to represent rural areas, areas around provincial towns, and urban areas respectively. These three scenarios are representative of most situations that will occur across the country.

The resulting Strategic Facilities and Critical Infrastructure Routes which were identified are summarised in the table below.

Name of Area	Number of Strategic Facilities	Number of Strategic Facilities which required Critical Infrastructure Routes	Number of Strategic Facilities which did not require Critical Infrastructure Routes	Length of Critical Infrastructure Route (km) (Based on road centreline)
Municipal District of West Clare	16	11	5	23.9 km
Municipal District of Loughrea	13	12	1	38.8 km
Fingal County Council	20	17	3	11.9 km

Full details of the results of applying the methodology to these three test areas are shown in Appendices A and B.

It should be noted that the purpose of this exercise to apply the methodology to these three test areas was to demonstrate the concept. The list of Strategic Facilities used in the test areas is a broad sample rather than a comprehensive list and the selection of routes in some cases required engineering judgement in order to find a route which was practical. As a result, the actual routes and Strategic Facilities in these areas should still be verified by the relevant Local Authorities as changes may be needed due to local knowledge or recent changes.

Next Steps

Local Authorities should use the methodology described in this document to identify Critical Infrastructure Routes in their respective areas.

When using this methodology, some of the Critical Infrastructure Routes may cross Local Authority boundaries and therefore consultation with adjacent Local Authorities will be required.

The nature of identifying Strategic Facilitates and then choosing the best Critical Infrastructure Route for each one will at times require local knowledge and some engineering judgment. For example, there may be more than one viable route option to choose from and deciding which island or isolated communities to include will require careful consideration of local circumstances.

Given the requirement for judgement in some areas, it may be beneficial in the long term to undertake a check of all Critical Infrastructure Routes on a national basis to ensure a consistent approach across all Local Authorities. This check could be undertaken by the DoT or others acting on their behalf.

The final routes should be stored in a GIS shapefile format to facilitate transfer to the MapRoad system in future if required. This file should contain a point layer showing each Strategic Facility as a separate feature, and a line layer showing each Critical Infrastructure Route as a separate feature[1].

Note that in applying this approach across the entire country, some situations may arise which were not encountered in the three test areas. For that reason, the methodology may need to be updated in future to reflect such situations if they occur.

[1] Local Authorities should confirm the specific file format with the Road Management Office in advance.

Appendix A - Overview of the three test areas

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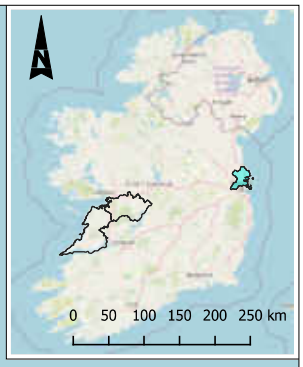

FS153
LAD018
LB3
FS100
FDC1
FS111
FDC2
LAD019
FS150
FDC3
FDC4
PS4
FDC5
FDC6
H46
LB4
FS155
H4
H42
LAD020

0 4 8 12 16 20 km

SCALE 1:250,000 @ A3

Basemap © OpenStreetMap contributors

Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Purpose: INFORMATION

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Rev	Description	By	Date	Chk'd	Auth
1	Overview of Study Areas	NS	01/07	MT	DK
2	Overview of Study Areas	MT	08/11	DK	DK
3	Overview of Study Areas	MT	23/01	DK	DK

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Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Title: OVERVIEW OF STUDY AREAS - FINGAL COUNTY COUNCIL -

Original Scale	Design/Drawn	Checked	Authorised
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Status: | Drawing Number: 5209631_HTR_GIS_1_1_3 | Rev: 3

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Date: 2023-01-24 12:56 Plotted by: mtiernan

DO NOT SCALE

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Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
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- Island Community (IC)

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Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: OVERVIEW OF STUDY AREAS - MUNICIPAL DISTRICT OF WEST CLARE -

Original Scale	Designed/Drawn	Checked	Authorised
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Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-24 12:56 Plotted by: mtiernan

DO NOT SCALE

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Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

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Purpose: INFORMATION

Title: OVERVIEW OF STUDY AREAS - MUNICIPAL DISTRICT OF LOUGHREA -

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Rev: 3

Appendix B - Critical Infrastructure Routes identified in the three test areas

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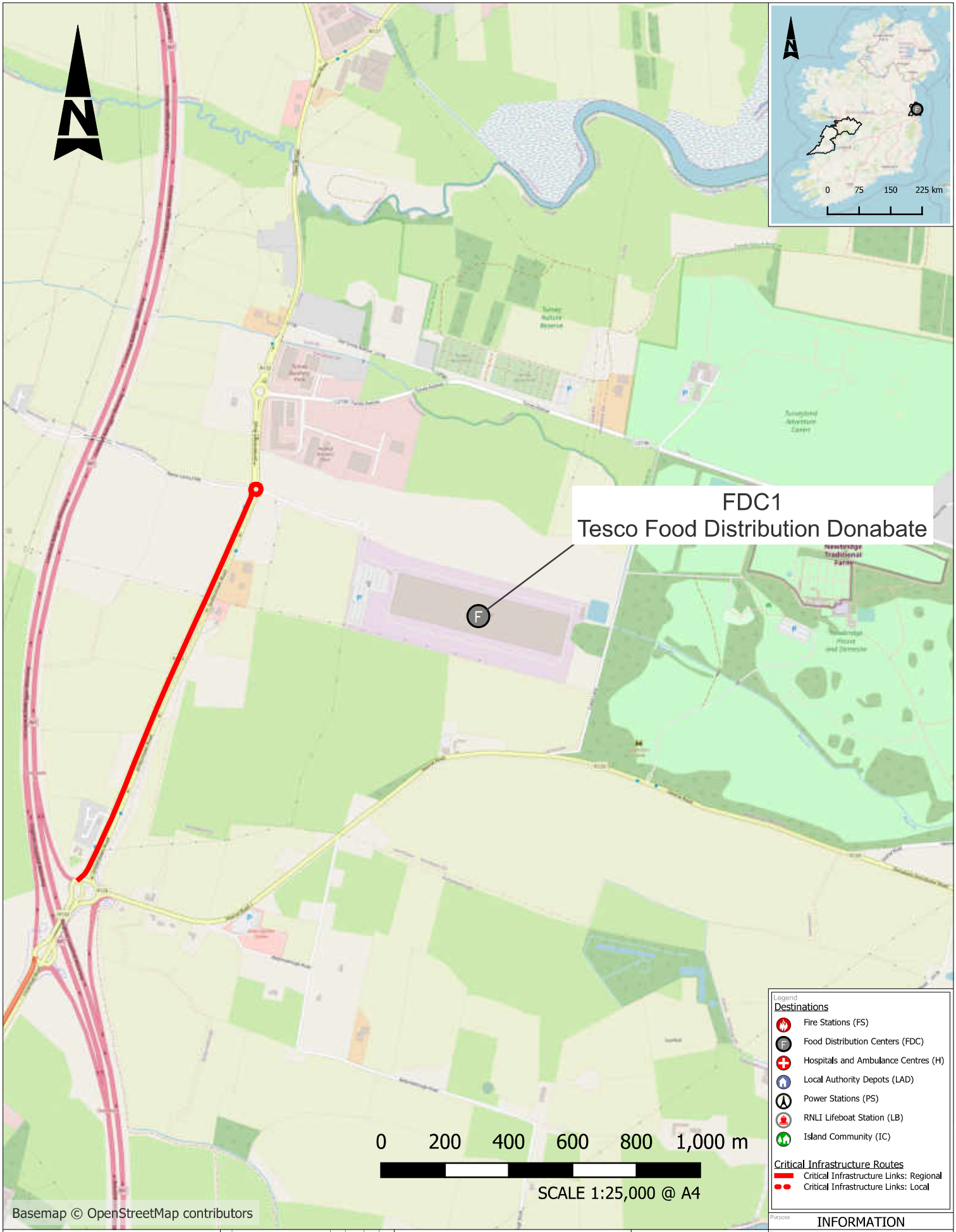

Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

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1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

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Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FDC1

Original Scale	Drawn/Drawn	Checked	Authorised
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Status | Drawing Number: 5209631_HTR_GIS_2_3 | Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:38 Plotted by: mtiernan

DO NOT SCALE

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Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

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1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

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Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FDC2

Original Scale	Drawn	Checked	Authorised
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File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:38 Plotted by: mtiernan

DO NOT SCALE

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Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

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1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

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Fax (+353) 01 810 8001

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Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FDC3

Original Scale	Drawn	Checked	Authorised
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Drawing Number: 5209631_HTR_GIS_2_3

Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:39 Plotted by: mtiernan

DO NOT SCALE

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Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

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1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
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Fax (+353) 01 810 8001

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Tel (+353) 021 429 0300
Fax (+353) 021 429 0360

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Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FDC4

Original Scale	Drawn	Checked	Authorised
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File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:39 Plotted by: mtiernan

DO NOT SCALE

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Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

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1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
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Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

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Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FDC5

Original Scale	Drawn/Drawn	Checked	Authorised
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File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:39 Plotted by: mtiernan

DO NOT SCALE

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Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

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1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

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Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FDC6

Original Scale	Drawn/Drawn	Checked	Authorised
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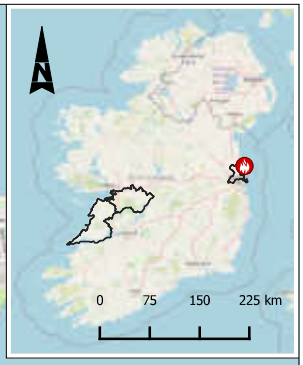

FS100
Skerries Fire Station

0 200 400 600 800 1,000 m

SCALE 1:25,000 @ A4

Basemap © OpenStreetMap contributors

Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

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1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
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Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

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Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FS100

Original Scale	Drawn	Checked	Authorised
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Status | Drawing Number: 5209631_HTR_GIS_2_3 | Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:39 Plotted by: mtiernan

DO NOT SCALE

A4 0 10 50

Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

An Roinn Iompair
Department of Transport

1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

ATKINS

Atkins House, 150-155 Airside Business Park, Swords, Co. Dublin
Tel (+353) 01 810 8000
Fax (+353) 01 810 8001

Unit 2B, 2200 Cork Airport Business Park, Cork
Tel (+353) 021 429 0300
Fax (+353) 021 429 0360

1st Floor Technology House Parkmore Technology Park, Galway
Tel (+353) 091 786 050
Fax (+353) 091 779 830

Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FS111

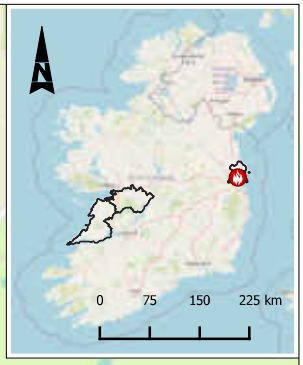
Original Scale	Drawn	Checked	Authorised
1:25,000 @ A4	MT Date 23.01.23	DK Date 23.01.23	DK Date 23.01.23

Status: | Drawing Number: 5209631_HTR_GIS_2_3 | Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:40 Plotted by: mtiernan

DO NOT SCALE

A4 0 10 50



FS150
Dublin Airport Fire Station

0 200 400 600 800 1,000 m

SCALE 1:25,000 @ A4

Basemap © OpenStreetMap contributors

Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

An Roinn Iompair
Department of Transport

1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

ATKINS

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Tel (+353) 01 810 8000
Fax (+353) 01 810 8001

Unit 2B, 2200 Cork Airport Business Park, Cork
Tel (+353) 021 429 0300
Fax (+353) 021 429 0360

1st Floor Technology House Parkmore Technology Park, Galway
Tel (+353) 091 786 050
Fax (+353) 091 779 830

Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FS150

Original Scale	Drawn	Checked	Authorised
1:25,000 @ A4	MT Date 23.01.23	DK Date 23.01.23	DK Date 23.01.23

Status

Drawing Number: 5209631_HTR_GIS_2_3

Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:40 Plotted by: mtiernan

DO NOT SCALE

A4 0 10 50

Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

An Roinn Iompair
Department of Transport

1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

ATKINS

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Tel (+353) 01 810 8000
Fax (+353) 01 810 8001

Unit 2B, 2200 Cork Airport Business Park, Cork
Tel (+353) 021 429 0300
Fax (+353) 021 429 0360

1st Floor Technology House Parkmore Technology Park, Galway
Tel (+353) 091 786 050
Fax (+353) 091 779 830

Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FS153

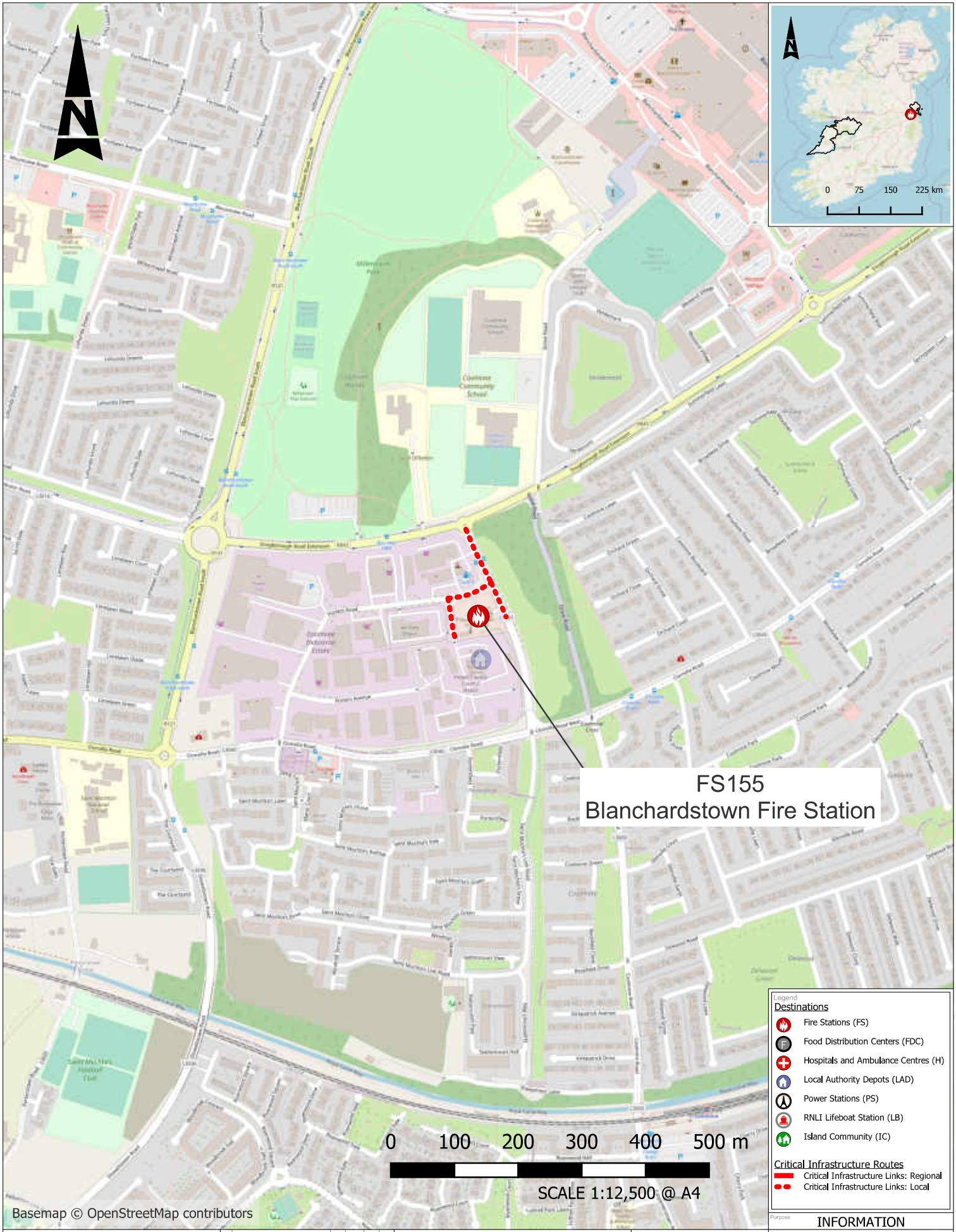
Original Scale	Drawn	Checked	Authorised
1:25,000 @ A4	MT Date 23.01.23	DK Date 23.01.23	DK Date 23.01.23

Status | Drawing Number: 5209631_HTR_GIS_2_3 | Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:40 Plotted by: mtiernan

DO NOT SCALE

A4 0 10 50



Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

An Roinn Iompair
Department of Transport

1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

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Tel (+353) 01 810 8000
Fax (+353) 01 810 8001

Unit 2B, 2200 Cork Airport Business Park, Cork
Tel (+353) 021 429 0300
Fax (+353) 021 429 0360

1st Floor Technology House Parkmore Technology Park, Galway
Tel (+353) 091 786 050
Fax (+353) 091 779 830

Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FS155

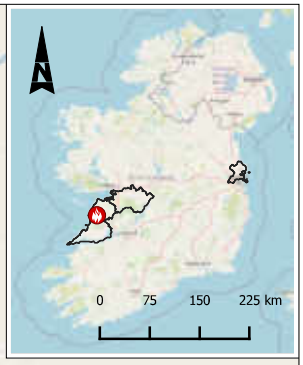
Original Scale	Drawn/Date	Checked/Date	Authorised/Date
1:12,500 @ A4	MT 23.01.23	DK 23.01.23	DK 23.01.23

Status: | Drawing Number: 5209631_HTR_GIS_2_3 | Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:40 Plotted by: mtiernan

DO NOT SCALE

A4 0 10 50



FS19
Ennistymon Fire Station

0 200 400 600 800 1,000 m

SCALE 1:25,000 @ A4

Basemap © OpenStreetMap contributors

Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

An Roinn Iompair
Department of Transport

1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

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Tel (+353) 01 810 8000
Fax (+353) 01 810 8001

Unit 2B, 2200 Cork Airport Business Park, Cork
Tel (+353) 021 429 0300
Fax (+353) 021 429 0360

1st Floor Technology House Parkmore Technology Park, Galway
Tel (+353) 091 786 050
Fax (+353) 091 779 830

Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FS19

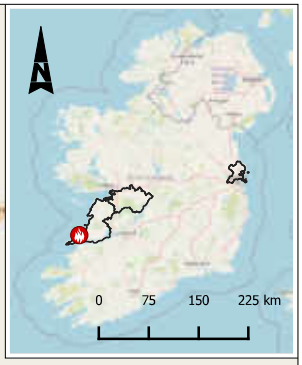
Original Scale	Design/Drawn	Checked	Authorised
1:25,000 @ A4	MT Date 23.01.23	DK Date 23.01.23	DK Date 23.01.23

Status: | Drawing Number: 5209631_HTR_GIS_2_3 | Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:40 Plotted by: mtiernan

DO NOT SCALE

A4 0 10 50



FS2
Kilkee Fire Station

0 200 400 600 800 1,000 m

SCALE 1:25,000 @ A4

Basemap © OpenStreetMap contributors

Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

An Roinn Iompair
Department of Transport

1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

ATKINS

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Tel (+353) 01 810 8000
Fax (+353) 01 810 8001

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Tel (+353) 021 429 0300
Fax (+353) 021 429 0360

1st Floor Technology House Parkmore Technology Park, Galway
Tel (+353) 091 786 050
Fax (+353) 091 779 830

Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FS2

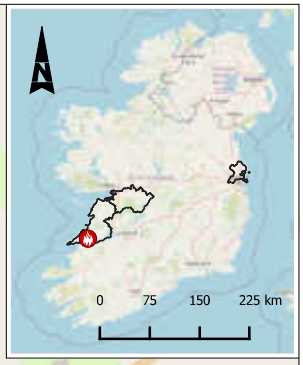
Original Scale	Design/Drawn	Checked	Authorised
1:25,000 @ A4	MT Date 23.01.23	DK Date 23.01.23	DK Date 23.01.23

Status | Drawing Number: 5209631_HTR_GIS_2_3 | Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:41 Plotted by: mtiernan

DO NOT SCALE

A4 0 10 50



FS201
Kilrush Fire Station

0 200 400 600 800 1,000 m

SCALE 1:25,000 @ A4

Basemap © OpenStreetMap contributors

Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

An Roinn Iompair
Department of Transport

1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

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Tel (+353) 01 810 8000
Fax (+353) 01 810 8001

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Tel (+353) 021 429 0300
Fax (+353) 021 429 0360

1st Floor Technology House Parkmore Technology Park, Galway
Tel (+353) 091 786 050
Fax (+353) 091 779 830

Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FS201

Original Scale	Drawn/Date	Checked/Date	Authorised/Date
1:25,000 @ A4	MT 23.01.23	DK 23.01.23	DK 23.01.23

Status | Drawing Number: 5209631_HTR_GIS_2_3 | Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:41 Plotted by: mtiernan

DO NOT SCALE

A4 0 10 50

Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

An Roinn Iompair
Department of Transport

1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

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Tel (+353) 01 810 8000
Fax (+353) 01 810 8001

Unit 2B, 2200 Cork Airport Business Park, Cork
Tel (+353) 021 429 0300
Fax (+353) 021 429 0360

1st Floor Technology House Parkmore Technology Park, Galway
Tel (+353) 091 786 050
Fax (+353) 091 779 830

Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FS202

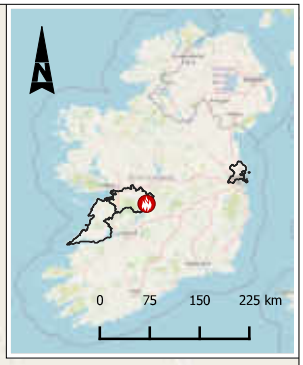
Original Scale	Drawn	Checked	Authorised
1:25,000 @ A4	MT Date 23.01.23	DK Date 23.01.23	DK Date 23.01.23

Status: Drawing Number: 5209631_HTR_GIS_2_3 Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:41 Plotted by: mtiernan

DO NOT SCALE

A4 0 10 50



FS30
Portumna Fire Station

0 200 400 600 800 1,000 m

SCALE 1:25,000 @ A4

Basemap © OpenStreetMap contributors

Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

An Roinn Iompair
Department of Transport

1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

ATKINS

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Tel (+353) 01 810 8000
Fax (+353) 01 810 8001

Unit 2B, 2200 Cork Airport Business Park, Cork
Tel (+353) 021 429 0300
Fax (+353) 021 429 0360

1st Floor Technology House Parkmore Technology Park, Galway
Tel (+353) 091 786 050
Fax (+353) 091 779 830

Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FS30

Original Scale	Design/Drawn	Checked	Authorised
1:25,000 @ A4	MT Date 23.01.23	DK Date 23.01.23	DK Date 23.01.23

Status: | Drawing Number: 5209631_HTR_GIS_2_3 | Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:41 Plotted by: mtiernan

DO NOT SCALE

A4 0 10 50

Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

An Roinn Iompair
Department of Transport

1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

ATKINS

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Tel (+353) 01 810 8000
Fax (+353) 01 810 8001

Unit 2B, 2200 Cork Airport Business Park, Cork
Tel (+353) 021 429 0300
Fax (+353) 021 429 0360

1st Floor Technology House Parkmore Technology Park, Galway
Tel (+353) 091 786 050
Fax (+353) 091 779 830

Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES FS35

Original Scale	Drawn/Drawn	Checked	Authorised
1:25,000 @ A4	MT Date 23.01.23	DK Date 23.01.23	DK Date 23.01.23

Status

Drawing Number: 5209631_HTR_GIS_2_3

Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:41 Plotted by: mtiernan

DO NOT SCALE

A4 0 10 50

Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

An Roinn Iompair
Department of Transport

1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	Drn	Date	Chkd	Auth

ATKINS

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Tel (+353) 01 810 8000
Fax (+353) 01 810 8001

Unit 2B, 2200 Cork Airport Business Park, Cork
Tel (+353) 021 429 0300
Fax (+353) 021 429 0360

1st Floor Technology House Parkmore Technology Park, Galway
Tel (+353) 091 786 050
Fax (+353) 091 779 830

Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES H4

Original Scale	Drawn/Drawn	Checked	Authorised
1:25,000 @ A4	MT Date 23.01.23	DK Date 23.01.23	DK Date 23.01.23

Status:

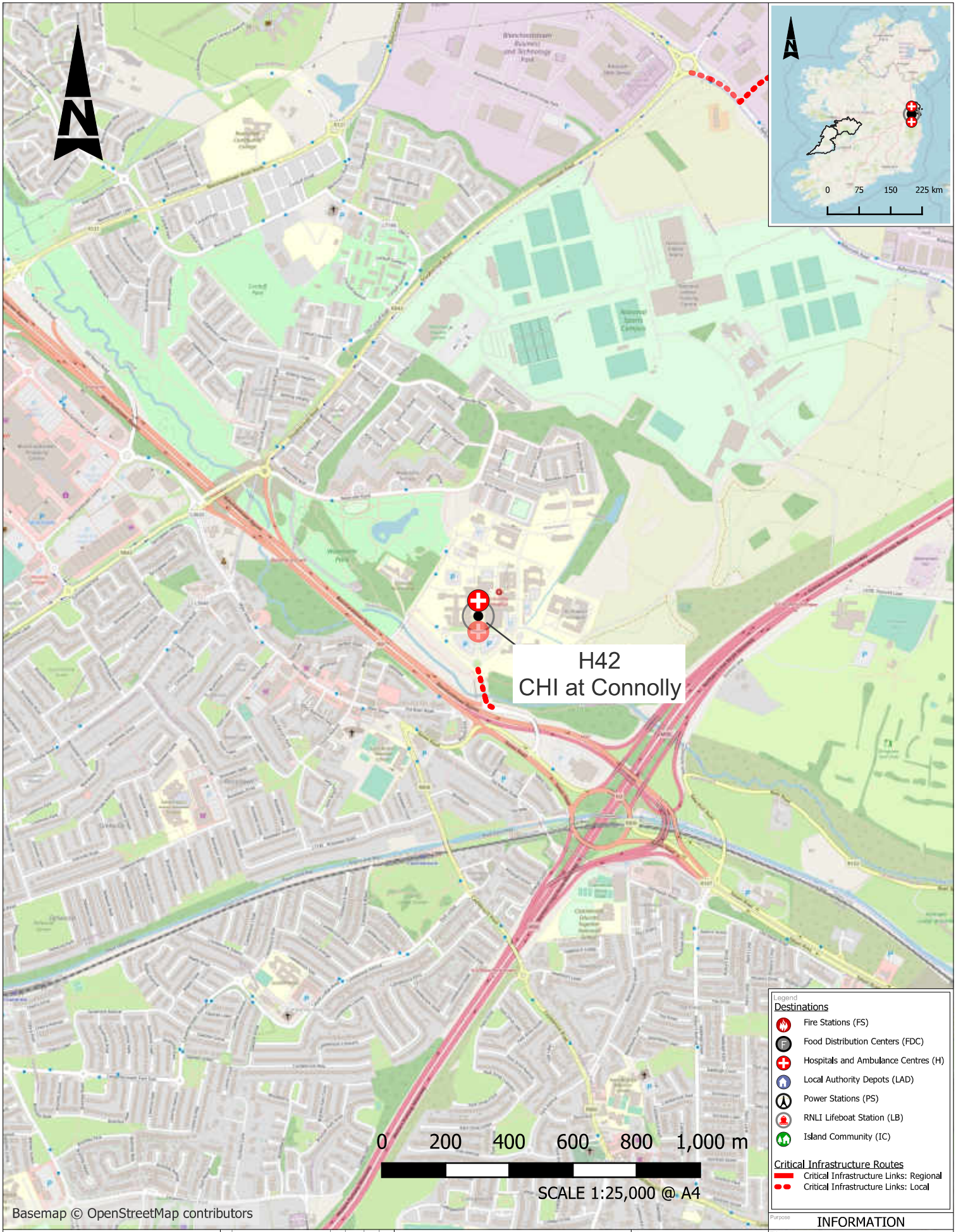
Drawing Number: 5209631_HTR_GIS_2_3

Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:41 Plotted by: mtiernan

DO NOT SCALE

A4 0 10 50



Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

An Roinn Iompair
Department of Transport

1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	Drn	23/01	Chk'd	Appr'd

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Tel (+353) 01 810 8000
Fax (+353) 01 810 8001

Unit 2B, 2200 Cork Airport Business Park, Cork
Tel (+353) 021 429 0300
Fax (+353) 021 429 0360

1st Floor Technology House Parkmore Technology Park, Galway
Tel (+353) 091 786 050
Fax (+353) 091 779 830

Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES H42

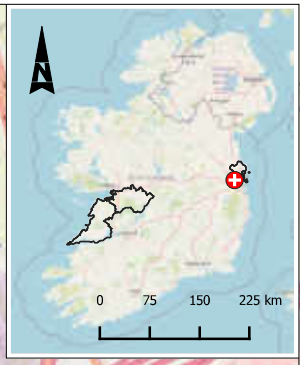
Original Scale	Drawn/Drawn	Checked	Authorised
1:25,000 @ A4	MT Date 23.01.23	DK Date 23.01.23	DK Date 23.01.23

Status | Drawing Number: 5209631_HTR_GIS_2_3 | Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:42 Plotted by: mtiernan

DO NOT SCALE

A4 0 10 50



H46
Cappagh National Orthopaedic Hospital

0 200 400 600 800 1,000 m

SCALE 1:25,000 @ A4

Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

An Roinn Iompair
Department of Transport

1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

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Tel (+353) 01 810 8000
Fax (+353) 01 810 8001

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Tel (+353) 021 429 0300
Fax (+353) 021 429 0360

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Tel (+353) 091 786 050
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Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES H46

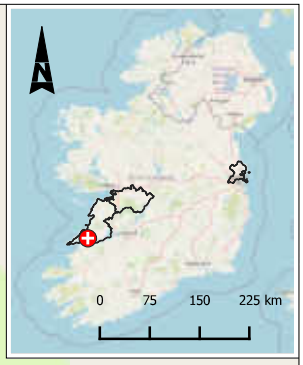
Original Scale	Drawn/Drawn	Checked	Authorised
1:25,000 @ A4	MT Date 23.01.23	DK Date 23.01.23	DK Date 23.01.23

Status | Drawing Number: 5209631_HTR_GIS_2_3 | Rev: 3

File: CriticalInfrastructureRoutes.qgz
Date: 2023-01-23 18:42 Plotted by: mtiernan

DO NOT SCALE

A4 0 10 50



H60
Kilrush Community Hospital

0 200 400 600 800 1,000 m

SCALE 1:25,000 @ A4

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Legend

Destinations

- Fire Stations (FS)
- Food Distribution Centers (FDC)
- Hospitals and Ambulance Centres (H)
- Local Authority Depots (LAD)
- Power Stations (PS)
- RNLI Lifeboat Station (LB)
- Island Community (IC)

Critical Infrastructure Routes

- Critical Infrastructure Links: Regional
- Critical Infrastructure Links: Local

An Roinn Iompair
Department of Transport

1	Destinations & Critical Infrastructure Routes	NS	01/07	MT	DK
2	Destinations & Critical Infrastructure Routes	MT	06/11	DK	DK
Rev.	Destinations & Critical Infrastructure Routes	MT	23/01	DK	DK

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Tel (+353) 01 810 8000
Fax (+353) 01 810 8001

Unit 2B, 2200 Cork Airport Business Park, Cork
Tel (+353) 021 429 0300
Fax (+353) 021 429 0360

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Tel (+353) 091 786 050
Fax (+353) 091 779 830

Client: Climate Action Regional Office

Project: Development of Critical Infrastructure Routes

Purpose: INFORMATION

Title: DESTINATIONS & CRITICAL INFRASTRUCTURE ROUTES H60

Original Scale	Design/Drawn	Checked	Authorised
1:25,000 @ A4	MT Date 23.01.23	DK Date 23.01.23	DK Date 23.01.23

Status | Drawing Number: 5209631_HTR_GIS_2_3 | Rev: 3