GORTLOUGHRA WIND FARM LIMITED

GORTLOUGHRA WIND FARM

COUNTY CORK

APPENDIX 14.2

TRAFFIC MANAGEMENT PLAN

March 2025

Job No. 6460

Jennings O'Donovan & Partners Limited,
Consulting Engineers,
Finisklin Business Park,
Sligo.
Tel.: 071 9161416
Fax: 071 9161080
email: info@jodireland.com

JENNINGS O'DONOVAN & PARTNERS LIMITED
Project, Civil and Structural Consulting Engineers,
FINISKLIN BUSINESS PARK,
SLIGO,
IRELAND.

Telephone (071) 9161416
Fax (071) 9161080

Email info@jodireland.com
Web Site www.jodireland.com

DOCUMENT APPROVAL

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	Prepared by	**Reviewed/Approved by**
Document Draft Rev1 Date 08th December 2024	Name John Doogan 	Name David Kiely 
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6460/503/JD

GORTLOUGHRA WIND FARM

TRAFFIC MANAGEMENT PLAN

CONTENTS

1 INTRODUCTION

1.1 Brief

Jennings O'Donovan & Partners Limited has been appointed by Gortloughra Wind Farm Limited to prepare a Traffic Management Plan ("TMP") for the proposed Gortloughra Wind Farm, Co. Cork. The Site is located 9.7 km north-west of Dunmanway, Co. Cork and 19 km south-east of the county boundary between Cork and Kerry. The Site is located within the townlands of an tSeithe Bheag (Shehy Beg), (Muscraí Gaeltacht), Gortloughra, Cloghboola and Inchinroe. Planning Permission is being sought by the Developer for the construction of eight wind turbines, permanent met mast, and all ancillary works.

1.2 Statement of Authority

The Traffic Management Plan has been prepared by John Doogan of Jennings O'Donovan & Partners Limited, Finisklin, Sligo. Established in Sligo in 1950, Jennings O'Donovan & Partners Limited is a Clean Tech Company providing consulting engineering services in the areas of road design, renewable energy, civil and structural engineering, water supply, wastewater collection and treatment, environmental resource management and impact assessment and in the area of industrial and commercial development.

1.3 Site Location, Context and Proposed Development

The site of the Proposed Development is located 9.7 km north-west of Dunmanway, to the north of the R585 regional road and to the south of the R584 regional road. Access to the Proposed Development will be from an existing priority junction on the L5844 local road. A detailed description of the Proposed Development is given in **EIA Chapter 2 – Project Description**, the Proposed Development will consist of the following main components:

- Erection of eight wind turbines with an overall ground to blade tip height of 175 m consisting of a rotor diameter of 150 m; and a hub height of 100 m.
- Construction of permanent Turbine Hardstands and Turbine Foundations.
- Construction of one temporary Construction Compound with associated temporary site offices, parking areas and security fencing.
- Installation of a meteorological mast with a height of 100m.
- Development of one on-site Borrow pit.
- Construction of new permanent internal site access roads and upgrade of existing internal site access roads to include passing bays and all associated drainage infrastructure.
- Development of a permanent internal site drainage network and sediment control systems.

- All associated underground electrical power and communications cabling connecting the wind turbines to the on-site substation.
- Biodiversity enhancement measures.
- Recreational community improvements including the erection of 4 No. permanent information boards relating to cultural heritage and upgrades to amenity tracks across the site.
- All associated site development works.
- 110 kV substation (Subject to a separate planning application)
- Grid connection route to Dunmanway 110 kV substation (Option A) or Carrigdangan 110 kV substation (Option B). (Subject to a separate planning application).
- Enabling works on the Turbine Delivery Route (TDR) between the Port of Cork and the Proposed Development site entrance. (Subject to a separate planning application).

The Location and layout of the Proposed Development is shown on **Figure 1.** The Grid Connection route options are shown on **Figure 2.**

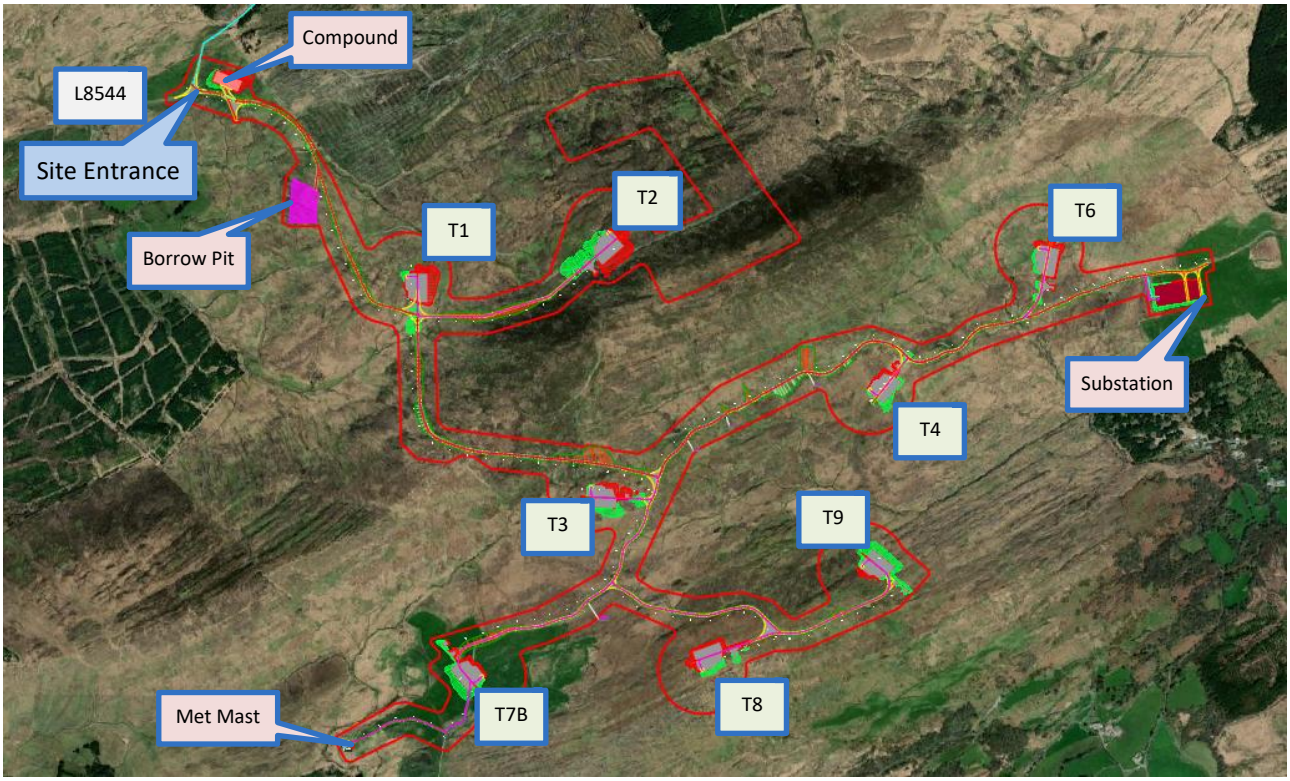


Figure 1 – Site Layout

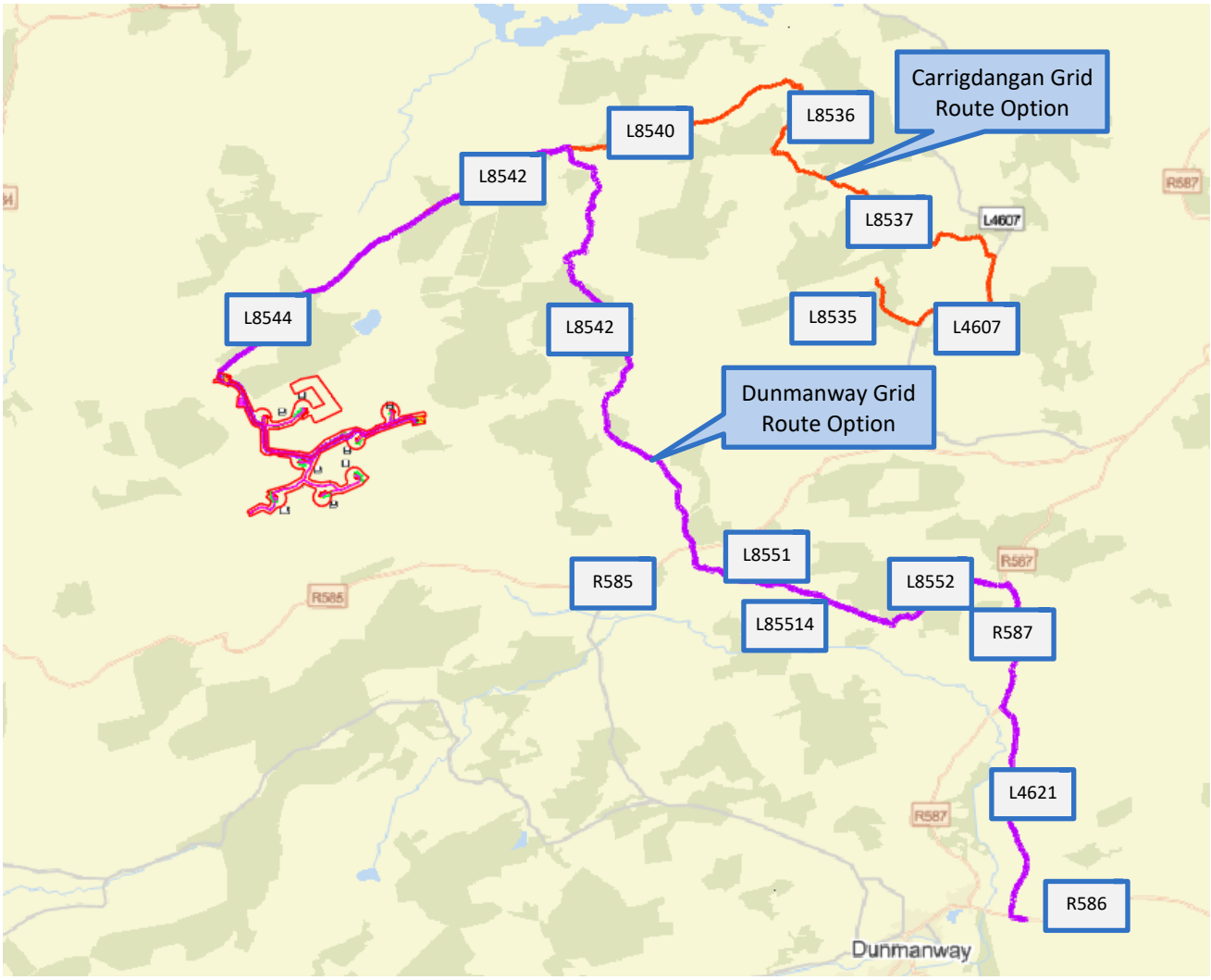


Figure 2 – Grid Connection Routes

2 EXISTING PUBLIC ROAD NETWORK

2.1 Existing Roads in the Vicinity of the Site

The site entrance to the Proposed Development is located on the L8544 local road (Reference Plate 1). The L8544 is a 3.0m wide single carriageway with grass verges. The L8544 runs between the R585 regional road and the L8542 local road and has an 80km/h speed limit classification. The L8544 combined with the L8542, L8540, L4608 and the L4607 will be the primary access roads to the site from the R584 and the R585 regional roads during the construction, operation and decommissioning of the Proposed Development.

Plate 1 – L8544 Local Road

The L8542 local road (Reference Plate 2). The L8542 is a 3.0m wide single carriageway with grass verges and has an 80km/h speed limit classification. The L8542 runs between the L8544 and the L8540. The L8542 will be used by wind farm construction, operations and decommissioning traffic to access the Proposed Development.

Plate 2 – L8542 Local Road

The L8540 local road (Reference Plate 3) is a 3.0m wide single carriageway with grass verges and an 80km/h speed limit classification. The L8540 runs between the L8542 and the L4608. The L8540 will be used by wind farm construction, operations and decommissioning traffic to access the Proposed Development.

Plate 3 – L8540 Local Road

The L4608 local road (Reference Plate 4) is a 4.0m wide single carriageway with grass verges and an 80km/h speed limit classification. The L4608 runs between the L8540 and the L4607. The L4608 will be used by wind farm construction, operations and decommissioning traffic to access the Proposed Development.

Plate 4 – L4608 Local Road

The L4607 local road (Reference Plate 5) is a 5.0m wide single carriageway with grass verges and an 80km/h speed limit classification. The L4607 runs between the R584 in the village of Inchigeelagh and the R585. The L4607 will be used by wind farm construction, operations and decommissioning traffic to access the Proposed Development.

Plate 5 – L4607 Local Road

The R584 regional road (Reference Plate 6) runs in an east / west direction through the village of Inchigeelagh and links the development to the N22 national primary road to the south of Macroom. The R584 is a 6.0m wide single carriageway with two lanes, hard strips and grass verges. The R584 has an 80km/h speed limit classification with regulatory and directional signs and roadmarkings.

Plate 6 – R584 Regional Road

The R585 regional road (Reference Plate 7) runs in an east / west direction from the R584 in the village of Kealkill to the N22 between Ballincollig and Macroom. The R585 has a 6.0m wide single carriageway with two lanes, hard strips and grass verges. The R584 has an 80km/h speed limit classification with regulatory and directional signs and roadmarkings.

Plate 7 – R585 Regional Road

2.2 Existing Junctions in the Vicinity of the Site

The site entrance to the Proposed Development is located on the L8544 local road (Reference Plate 8) at an existing field entrance. The existing entrance will be upgraded as part of the Proposed Development. Full details of the upgraded site entrance are given in **Section 3** of this report.

Plate 8 – L8544

The existing junction between the L4608 and the L4607 local roads (Reference Plate 9) is a simple T-junction with priority for L4607 traffic. The junction is located to the south of Inchigeelagh village in a 50km/h speed limit zone. The junction is lit by public lighting.

Plate 9 – L4607 / L4608 Priority Junction

The existing junction between the L4607 and the R584 / L3403 (Reference Plate 10) is a staggered cross roads junction with priority for R584 traffic. The junction is located in the village of Inchigeelagh within a 50km/h speed limit zone. The junction is lit by public lighting.

Plate 10 – L4607 / R584 Junction

The existing junction between the L4607 and the R585 (Reference Plate 11) is a simple T-junction with priority for R585 traffic. The junction is located within an 80km/h speed limit zone with regulatory and directional signage. The junction is not lit by public lighting.

Plate 11 – L4607 / R585 Junction

3 SITE ACCESS

3.1 Proposed Wind Farm Site Entrances

The location of the site entrance to The Proposed Development is shown on **Figure 1.** The site entrance will be constructed on the L8544 local road at an existing field entrance which will be upgraded as part of the Proposed Development. The site entrance will consist of a simple T-Junction with priority for L8544 traffic. The junction will be constructed to accommodate HGV vehicles and will have an extended overrun area to accommodate the swept path of abnormal load vehicles delivering turbine components during the turbine erection phase of the Project. During the construction, wind farm infrastructure such as roads and hardstands, the overrun area at the junctions for abnormal load vehicles will not be in use and access to the overrun areas will be restricted using temporary traffic barriers. The temporary traffic barriers will be used to channelise traffic at the junctions and to prevent parking in the vicinity of the L8544. The overrun area at the junction will be reinstated following the delivery of turbine components. The site entrance junction will have a dwell area with a gradient of 2.5% at its intersection with the L8544 with drainage falling towards the wind farm site and away from the L8544 carriageway. The site entrance junction will be gated and fenced with stock proof fencing during the construction period, the access gates will be set back 20m from the L8544 carriageway edge to accommodate HGV vehicles entering the wind farm site and to eliminate the possibility of vehicles blocking the L8544. Wheel cleaning facilities will be provided at site access to prevent the spread of mud and debris onto the L8544 carriageway. The Layout of the site entrance is shown on **Figure 3**. Visibility at the Proposed Development entrance will be available at a distance of 90m in both directions measured from a 3.0m setback.

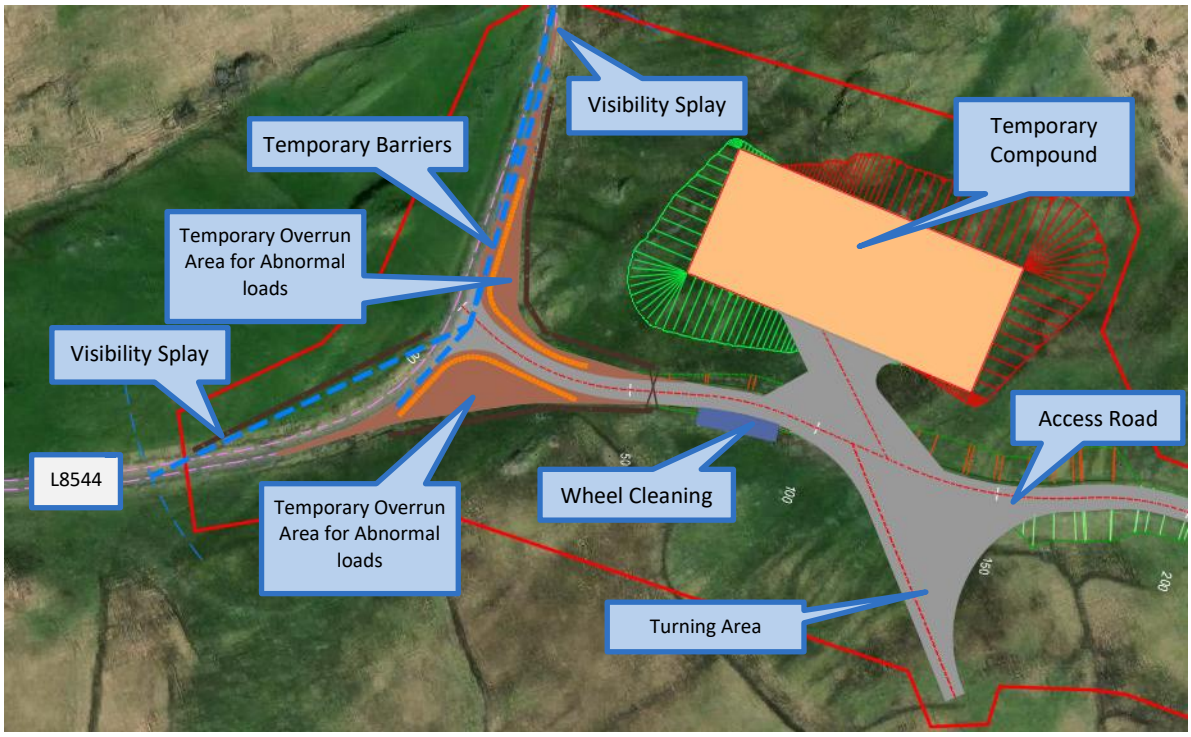


Figure 3 – Site Entrance

3.2 Junction Signage and Traffic Management

The Proposed Development site access will be a Stop controlled junction and will be signposted and marked in accordance with the Traffic Signs Manual during the operations phase of the Proposed Development. The junctions will be fitted with a RUS 027 stop sign and markings in accordance with TSM Figure 7.35.

During the construction of the Proposed Development the site entrance will be signposted with advance warning signs in accordance with Chapter 8 of the Traffic Signs Manual. The layout of site entrance junction advance warning signage is shown on **Figure 7.**

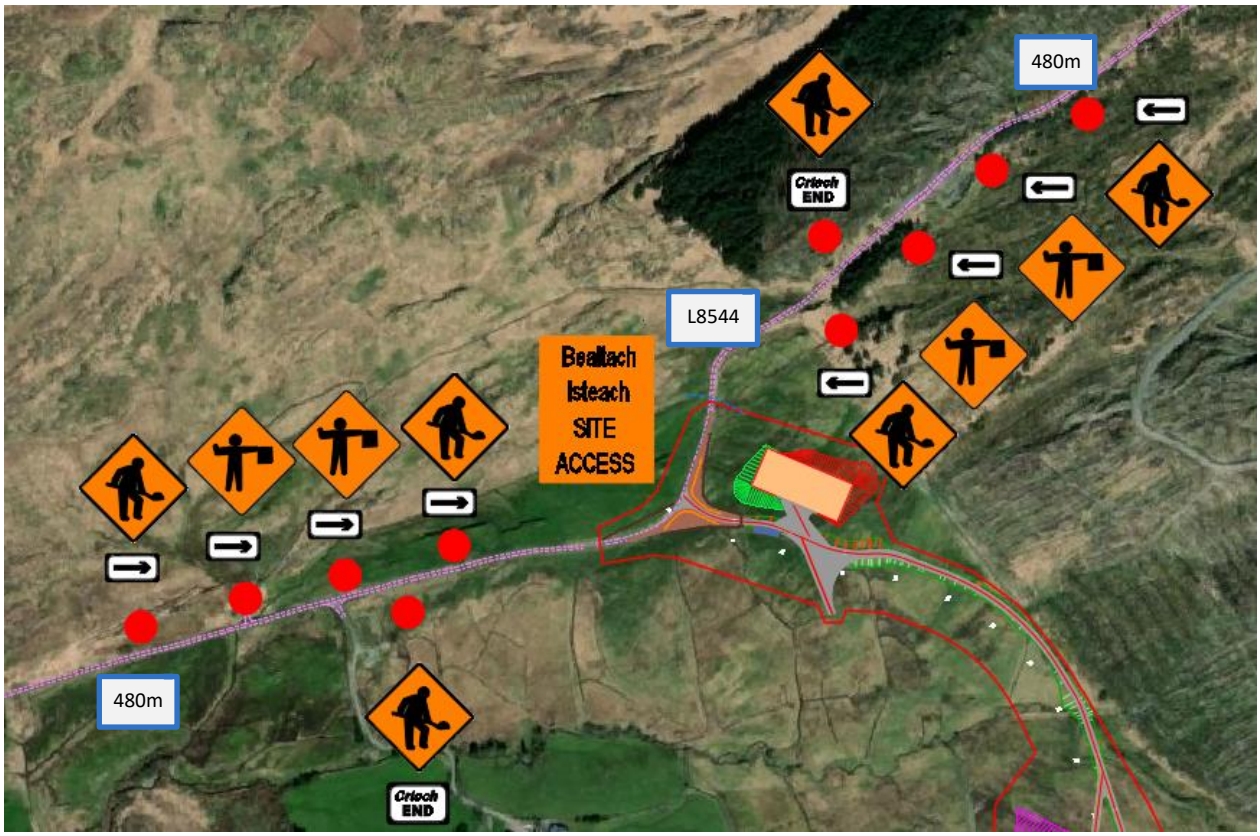
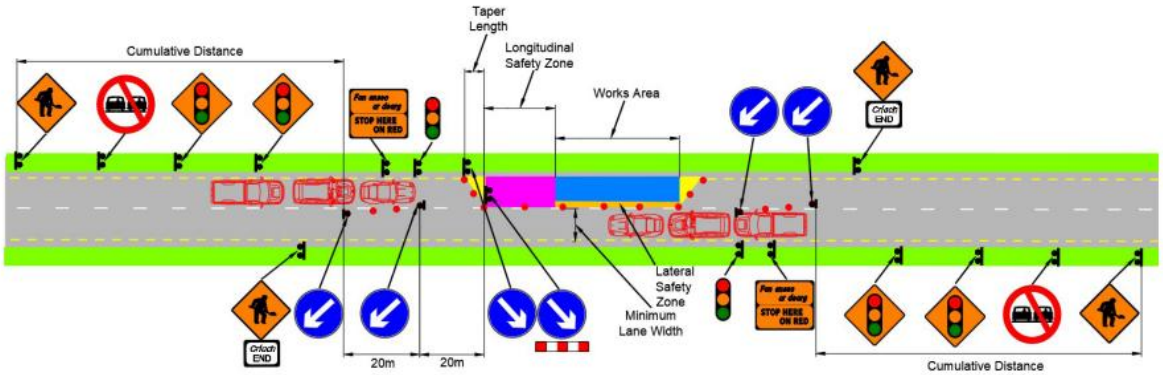


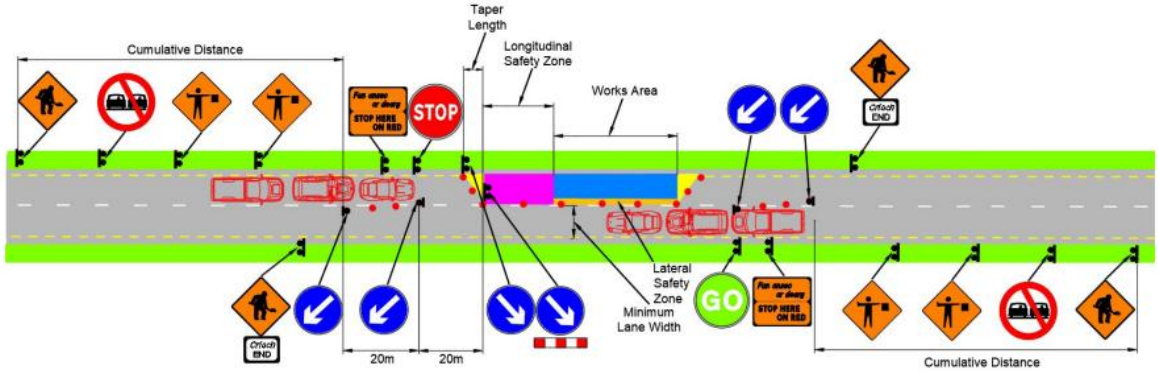
Figure 7 – Site Entrance Signage

Traffic management will be required during the construction of the site access to the Proposed Development on the L8544. Traffic management will also be required at the site access during the delivery of turbine components. During the construction of the wind farm site access junctions, traffic management will be carried out in accordance with Chapter 8 of the Traffic Signs Manual using temporary traffic signals and flagmen. During the delivery of turbine components, traffic management will be carried out using flagmen at the site entrance. Traffic management during turbine deliveries will be required for short periods of time during off peak hours on the public road network to allow abnormal

load vehicles to access the site. Details of traffic management systems for junction construction and turbine delivery is shown on **Figure 8.**



Temporary Traffic Signals – Site Entrance Construction



Stop & Go – Turbine Delivery

Figure 8 – Traffic Management

4 HAUL ROUTES FOR CONSTRUCTION, TURBINE DELIVERY & OPERATIONS TRAFFIC

4.1 Haul Route for Wind Farm Infrastructure Construction HGV Traffic

All HGV traffic associated with the construction of The Proposed Development infrastructure will use the Proposed Development site entrance on the L8544. Access to the Proposed Development will be from the R584 and R585 regional roads via the L4607 / L4608 junction. Haul routes for wind farm construction traffic are shown in **Figure 9.**

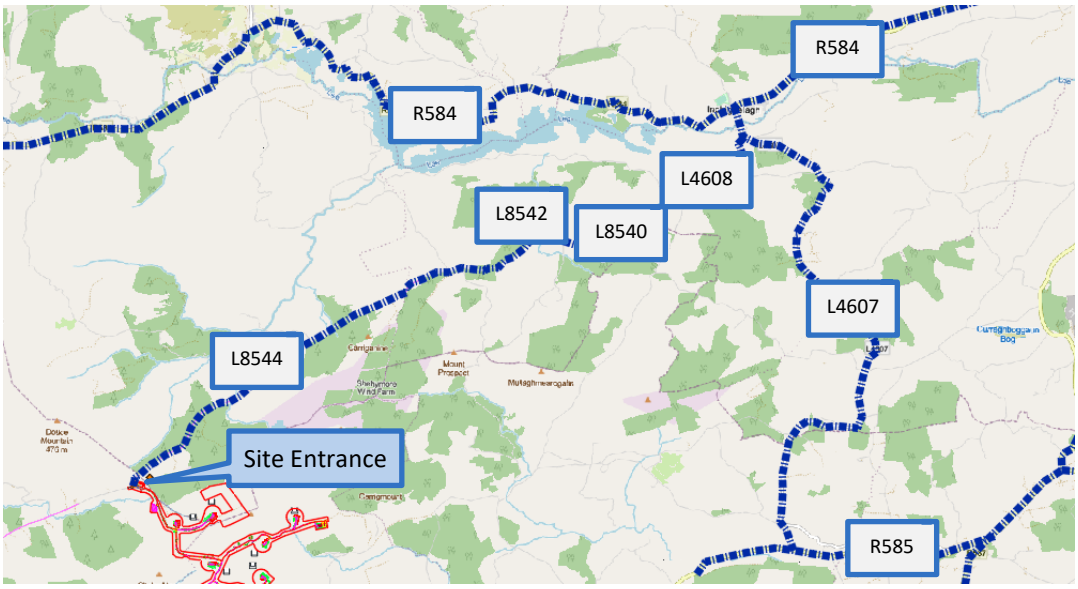


Figure 9 – Construction Haul Route

4.2 Haul Route for Wind Farm Grid Connection Traffic

All HGV traffic associated with the construction of the Grid Connection between the 110kV Onsite Substation and either Dunmanway 110 kV substation or Carrigdangan 110 kV substation will follow the grid connection route and associated diversions to access the works. Construction vehicles will be prohibited from using local roads which are not part of the grid connection works or local diversions. The grid connection route is shown in **Figure 2.**

4.3 Grid Connection Works on the Public Road Network

A summary of the grid connection works on the public road network for the two grid connection options to either Dunmanway 110 kV substation or Carrigdangan 110 kV substation are listed in **Table 1**, Full

details of traffic management systems and diversions during the grid connection works on the public road network are included in **Appendix A.**

Dunmanway 110 kV Substation Option	
Road Number	Works
L8544	Cable Trench in Public Road
L8542	Cable Trench in Public Road
R585	Cable Trench in Public Road
L8551	Cable Trench in Public Road
L85514	Cable Trench in Public Road
L8552	Cable Trench in Public Road
R587	Cable Trench in Public Road
L4621	Cable Trench in Public Road
R586	Cable Trench in Public Road
Carrigdangan 110 kV Substation Option	
Road Number	Works
L8544	Cable Trench in Public Road
L8542	Cable Trench in Public Road
L8540	Cable Trench in Public Road
L8536	Cable Trench in Public Road
L8537	Cable Trench in Public Road
L4607	Cable Trench in Public Road
L8535	Cable Trench in Public Road

Table 1 – Grid Connection Works

4.4 Haul Route for Turbine Delivery Traffic

The turbine components for The Proposed Development will be shipped to the Port of Cork where they will be stored for transportation. The turbine components will be transported on the public road network using abnormal load vehicles between the Port of Cork and the Proposed Development. The proposed turbine delivery route between the Port of Cork and The Proposed Development site is shown in **Figure 10.** The turbine delivery route in the vicinity of The Proposed Development is shown in **Figure 11.** The turbine components will be delivered to the Proposed Development using the following public road network and local authority jurisdiction.

- Exit from Port of Cork onto N28 – Cork City Council / Transport Infrastructure Ireland
- N40 – Cork City Council / Transport Infrastructure Ireland
- N22 – Cork City Council / Transport Infrastructure Ireland
- R585 – Cork City Council
- L4607 – Cork City Council

- L4608 – Cork City Council
- L8540 – Cork City Council
- L8542 – Cork City Council
- L8544 – Cork City Council

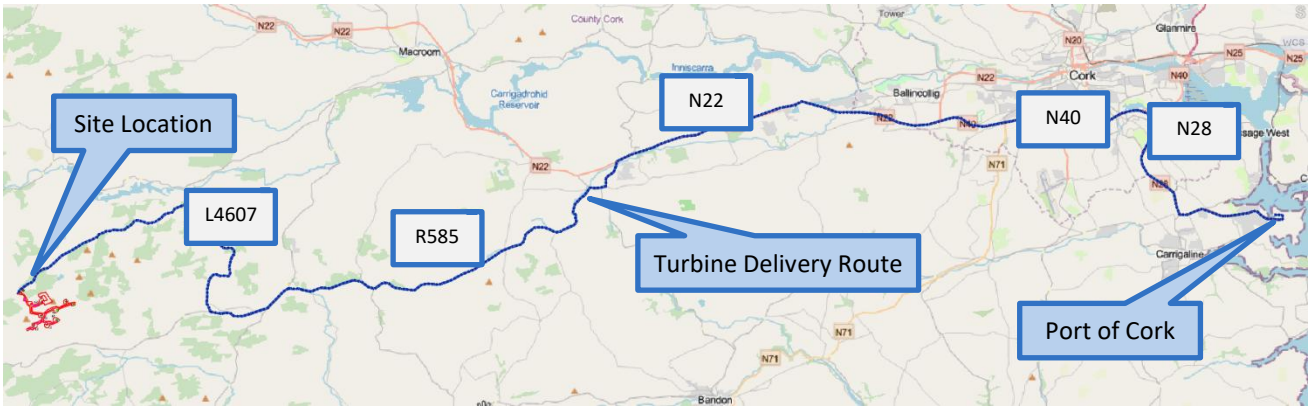


Figure 10 – Turbine Delivery Route

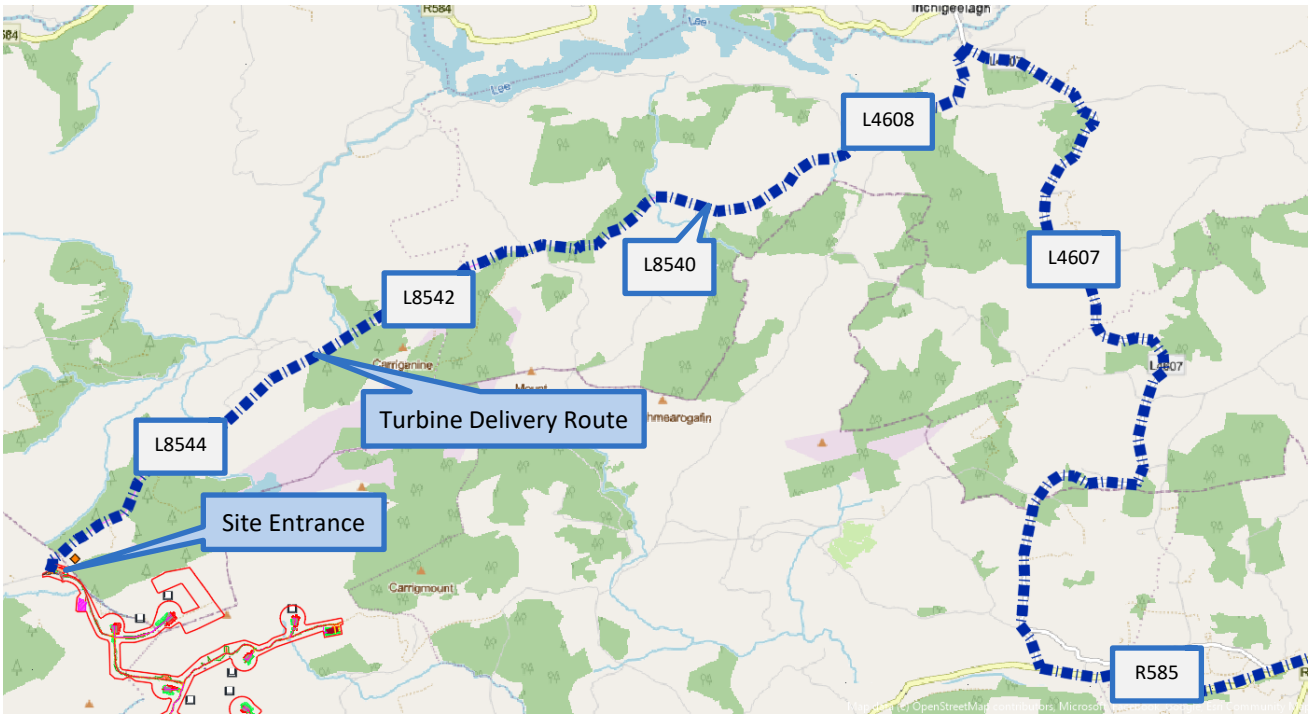


Figure 11 – Turbine Delivery Route – R585 Regional Road to The Proposed Development

4.5 Transportation of Abnormal Load Turbine Components on the Public Road Network

The transportation of turbine components consisting of abnormal loads will be subject to abnormal load permits obtained by the haulage company who will submit details of the transport vehicle, load to be transported and transport route to An Garda Siochana and to the local authority through which the load will pass. As is best industry practice, delivery vehicles will use a combination of trailers and axle configurations based on the weight and dimensions of the load in order to ensure that the maximum axle weight transmitted to the road surface does not exceed the limits set out in the Road traffic Regulations, 2003.

Prior to the transportation of turbine components between the port and The Proposed Development, a trial run will be carried out by a delivery vehicle using a retractable load gauge in order to determine that fully loaded vehicles can access the Site. The trial run will be carried out using appropriate permits in consultation with An Garda Siochana, local authority and all relevant road stakeholders.

Transport Infrastructure Ireland and PPP operators shall be included in all correspondence relating to the transportation of turbine components.

4.6 Enabling Works for Turbine Delivery on the Public Road Network

The haul route for the transportation of turbine components between the Port of Cork and the R585 blade transfer location to the west of Beal Na Blath has been assessed by Pell Frischmann. The haul route for the transportation of turbine components between the R585 west of Beal Na Blath to the Proposed Development site entrance has been assessed by Jennings O'Donovan & Partners Limited. The assessments have been carried out using AutoTRACK software to determine the swept path of abnormal load vehicles delivering turbine components. The assessment has shown that enabling works such as road widening, alterations to junctions, removal and trimming of vegetation, alterations to signs, lighting, traffic signals and street furniture will be required along the haul route between the Port of Cork and the Proposed Development. A summary of the assessment is listed in **Table 2**. Full details of the works locations on the turbine delivery route are shown in **Appendix B**.

Area	Road Number	Location	Enabling Works
1	R585	E543958 N566906	Construction of temporary blade transfer area
2	R585	E539805 N563875	Construction of temporary blade transfer area
3	R585	E539783 N563870	Construction of temporary blade transfer area

4	R585	Various	Trimming of existing vegetation. Load oversail in third party lands Alterations to signs, street furniture and poles.
5	R585 / L4607 Junction	E523228 N559553	Road widening to withstand wheel loading from abnormal load vehicles at junction.
6	L4607	Various	Road widening to withstand wheel loading. Trimming of existing vegetation. Load oversail in third party lands Alterations to signs, street furniture and poles.
7	L4608	Various	Road widening to withstand wheel loading. Trimming of existing vegetation. Load oversail in third party lands. Alterations to signs, street furniture and poles.
8	L8540		Trimming of existing vegetation. Load oversail in third party lands. Alterations to signs, street furniture and poles.
9	L8542		Road widening to withstand wheel loading. Load oversail in third party lands. Trimming of existing vegetation Alterations to signs, street furniture and poles.
10	L8544		Road widening to withstand wheel loading. Load oversail in third party lands. Trimming of existing vegetation Alterations to signs, street furniture and poles.

Table 2 – Turbine Delivery Route Enabling Works

4.7 Enabling Works for Turbine Delivery – Materials, Specification and Reinstatement

The enabling works for transportation of turbines and reinstatement of road infrastructure on the public road network will be carried out in consultation with the relevant road stakeholders using an approved road opening licence and agreed traffic management plan which shall be in accordance with Chapter 8 of the Traffic Signs Manual. Transport Infrastructure Ireland shall be included in all correspondence relating to proposed enabling works and transportation of turbine components on the public road network.

Specification of materials and workmanship shall be in accordance with TII publications and agreed with the relevant road stakeholders prior to any works being carried out on site.

All damage to the national road network shall be repaired using materials and workmanship in accordance with TII specifications and shall be agreed prior to any works commencing on site. A pre-construction condition survey of the road network shall be carried out in order to establish an agreed baseline prior to any works commencing on site. A post construction road condition survey shall be carried out following the completion of construction to determine if deterioration has occurred on the road network.

5 PRE-CONSTRUCTION WORKS REQUIREMENTS

5.1 Location and Diversion of Existing Services

A desk-based study will be carried out to locate existing services at all works locations before works commences on Site. Prior to the commencement of works, the location of existing services shall be confirmed by ground penetrating radar. All service diversions and works to protect existing services which are necessary for the construction of the wind farm shall be agreed with the relevant service provider prior to works commencing on Site.

5.2 Permits to Work on the Public Road Network

Prior to the commencement of works, the contractor shall obtain all necessary road opening licenses and road closure permits to work on the public road network. The contractor shall inform the public in advance of any road closures and provide alternative means of access to properties, businesses and farms.

5.3 Traffic Management Plan

All works carried out on the public road network shall be carried out using a traffic management system in accordance with the requirements of Chapter 8 of the Traffic Signs Manual. The appointed contractor shall compile a detailed Traffic Management Plan for the works which will specify the precise traffic management measures for each works section and submit to relevant authority for approval. The contractor will appoint a competent traffic management coordinator who will be the main point of contact for all traffic management matters during the course of the works. The agreed traffic management systems shall be installed and maintained by operatives with the appropriate training to

carry out works on traffic management systems. The TMP shall be submitted to the owners engineer and Developer for review 1 month before scheduled works.

5.4 Site Access Roads

All construction traffic shall access the site from the L8544. Construction HGV traffic shall be prohibited from using local roads which are not directly affected by the works. The location of site access points shall be signposted and assigned a site access number for the duration of the works. Haul Routes for construction and delivery traffic shall be signposted from the national and regional road network.

5.5 Road Condition Survey

A pre-construction road condition survey shall be carried out prior to any works commencing on site. A post-construction condition survey shall be carried out following the completion of the works in consultation with the relevant authority. Reinstatement of defects on the public road network resulting from construction traffic shall be made good to a specification agreed with the relevant local authority / TII. The scope of the road condition survey shall be agreed relevant local authority / TII.

5.6 Public Information and Access

The appointed Contractor shall inform local residents, businesses and emergency services of proposed works and road closures in advance of any works taking place on Site. Access shall be maintained to properties at all times during the course of the works. The Contractor will appoint a project coordinator who will be the main point of contact for matters relating to traffic which will affect the general public, local businesses and emergency services. An out of hours contact number shall also be provided.

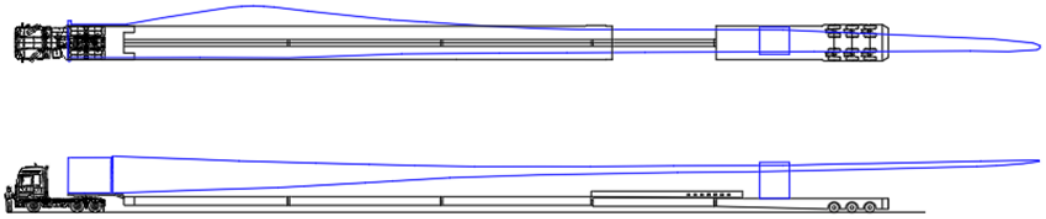
5.7 Emergency Access Routes

Emergency access routes shall be provided at all times for emergency service vehicles to access the Site or to bypass the works in the event of an emergency.

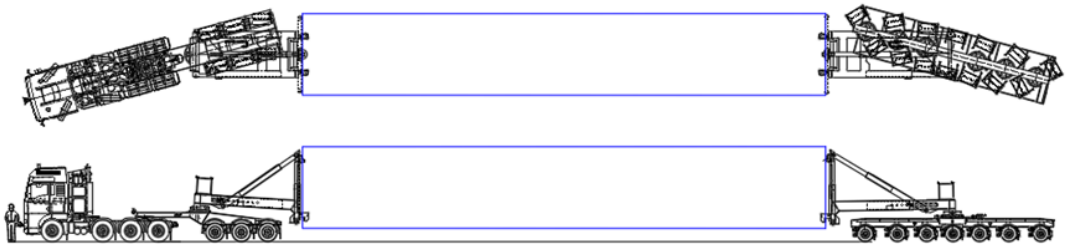
6 DELIVERY VEHICLE SPECIFICATION

Delivery of road construction materials, concrete for Turbine Foundations, building materials, drainage, ducting and cables will be carried out using standard heavy goods vehicles (HGV). Delivery of turbine components will be carried out using specialist abnormal load vehicles. Turbine blades will be delivered on an extendable semi-trailer, one per trailer. The largest turbine blades will be 76.7m long,

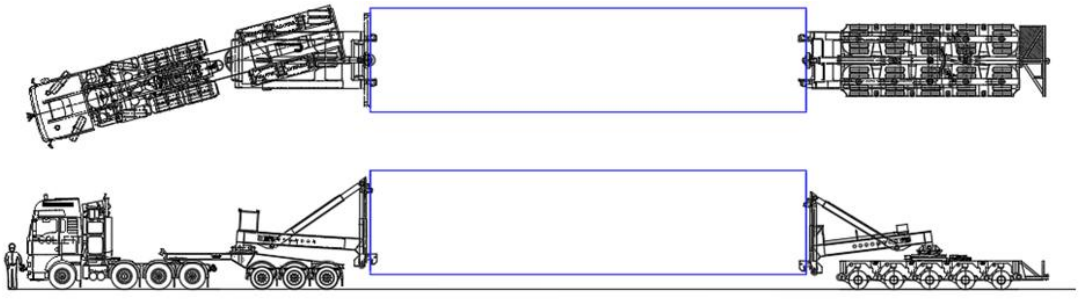
approximately 14 of the blade will overhang the rear of the trailer. Following delivery to the Site, the trailer will be retracted for the return trip. Each turbine tower will be delivered to site in three sections on extendable semi-trailers, the tower sections range in length from 33.0m to 17.5m with a maximum width of 4.45m. All material deliveries will have a maximum axle load of up to 12 tonnes per axle, and a maximum gross vehicle weight of 139 tones. The main crane for turbine erection will have a maximum axle loading of 12 tonnes per axle and a maximum total weight of 100 tonnes approx. Vehicles delivering counter-weights for the crane will have a maximum axle loading of up to 12 tonnes per axle. Typical abnormal load vehicles used for the transportation of turbine components are shown below. The transport vehicles used for transportation of components may differ from those shown below depending on the haulage contractor's preferences.



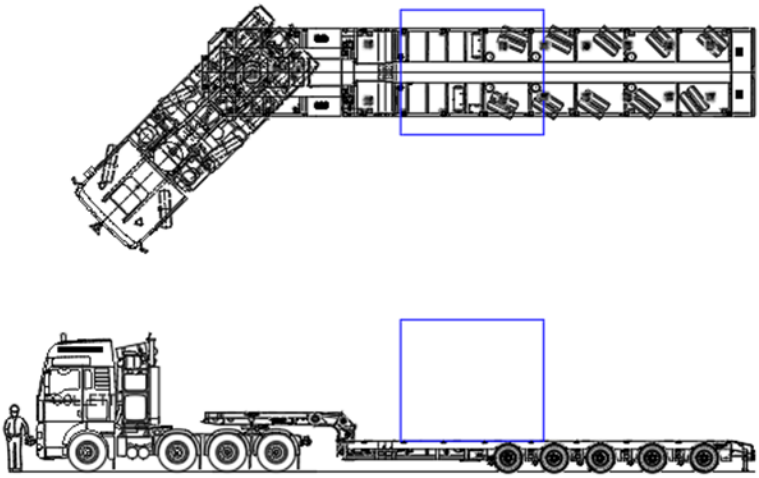
Typical Turbine Blade Transport Vehicle



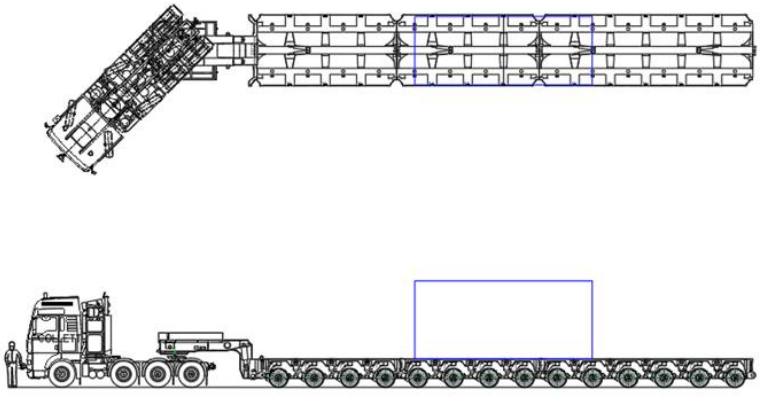
Typical Turbine Tower Transport Vehicle



Typical Nacelle Transport Vehicle



Typical Hub Transport Vehicle



Typical Generator Transport Vehicle

7 CONSTRUCTION, OPERATION & DECOMMISIONING TRAFFIC VOLUMES

7.1 Construction Period

The construction period of the Proposed Development is anticipated to take approximately 16 to 18 months with the majority of HGV deliveries to site concluding in month 10. The project timeframe is

summarised in **Table 3** below. It is expected that construction hours will be between 07:00 and 19:00 Monday to Friday and 08:00 and 13:00 on Saturday. There may be periods outside normal site working hours when long duration and weather dependent specialist works such turbine foundation construction and turbine installation may be carried. All construction activities outside normal site working hours will be agreed with Cork County Council.

Proposed Works	Timetable (Month No.)
Civil Works	
Site Establishment & Fencing	1
Temporary Construction Compound	1
Site Drainage	1-2
Construction of Internal Access Road	2-8
Construction of Turbine Hardstands	2-8
Construction of Turbine Foundations & Hardstands	6-10
Substation & Compound Construction	4-8
Substation Electrical Works	14-16
Substation Commissioning	16
Internal Cabling Installation	8-10
Turbine Delivery and Erection	10-14
Grid Connection	4-14
Energisation	14-16
Turbine Commissioning	14-16
Site Restoration	15-16

Table 3 Project Timeframe

7.2 Construction Period – Trip Generation HGV's

The estimated HGV deliveries to the Site during the construction period are shown in Table 4. The trips generated by the construction of the proposed Development are based on AutoCAD Civil 3D site layout design drawings, site investigation results and turbine suppliers' specifications. The calculated volumes of materials are based on the following design criteria,

- All granular materials for road and hardstand structural layers will be imported from local quarries.

- All structural fill to formation level will be obtained from onsite excavations and from the onsite borrow pit.

- All concrete for turbine foundations will be imported from local ready-mix facilities.

- Topsoil and subsoil material resulting from site clearance will be incorporated into the design and will not be removed from site.

- All material excavated during grid connection trench works will be removed from site and replaced with imported material.

- Material used for the construction of temporary compounds will be incorporated into the site road construction at the end of the contract and will not be removed from site.

Materials	Quantity	No. Of Deliveries	Timeframe (Month)	Maximum Loads / Day at R132 / L6274 Junction	Vehicle Type
Site Establishment & Fencing	-	10	1	5	OGV1 / OGV2
Temporary Construction Compound	1,845m^3	185	1	10	OGV1 / OGV2
Site Drainage	-	10	1-2	1	OGV2
Construction of Internal Access Road	14,300m^3	1,430	2-8	10	OGV1 /OGV2
Construction of Turbine Hardstands	15,800m^3	1,580	2-8	10	OGV1
Construction of Turbine Foundations (950m^3 Per Base)	7,600m^3	960	6-10	120	OGV1
Substation Construction		20	4-8	2	OGV1
Substation Electrical Works		20	14-16	2	OGV1 / OGV2
Substation Commissioning		5	16	2	OGV1 / OGV2
Internal Cabling Installation		50	8-10	5	OGV1
Turbine Delivery and Erection	8 Turbines	136	10-14	3	OGV2
Grid Connection (Dunmanway) Excavated material 16,680m^3 Imported Backfill 16,680m^3 Reinstatement 2,500m^3	27,800m 35,860m^3	3,586	4-14	15	OGV1
Energisation		5	14-16	2	OGV1
Turbine Commissioning		5	14-16	2	OGV1
Site Restoration		15	15-16	5	OGV1
Total		**8,017**			

Table 4 HGV and Abnormal Load Deliveries to Site During Construction

It is estimated that during the wind farm construction, an approximate total of 8,017 loads of material and building supplies will be delivered and removed from the Site. The majority of HGV movements to and from Site will occur during the first ten months of the construction period and will be associated with site road construction, turbine hardstand construction and turbine foundation construction.

A schedule of maximum predicted daily traffic movements to site over a 18-month construction period is shown in **Table 5.**

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Site Establishment & Fencing	5																	
Temporary Construction Compound	10																	
Site Drainage	1	1																
Construction of Internal Access Road		10	10	10	10	10	10	10										
Construction of Turbine Hardstands		10	10	10	10	10	10	10										
Construction of Turbine Foundations						120	120	120	120	120								
Substation Construction				2	2	2	2	2										
Substation Electrical Works														2	2			
Substation Commissioning																2		
Internal Cabling Installation								5	5	5								
Turbine Delivery and Erection										3	3	3	3					
Grid Connection (Dunmanway)				15	15	15	15	15	15	15	15	15	15	15				
Energisation														2	2	2		
Turbine Commissioning														2	2	2		
Site Restoration															5	5		
Total	16	21	20	37	37	157	157	162	140	143	18	18	18	21	11	11	0	0

Table 5 HGV and Abnormal Load Deliveries to Site During Construction

The first month of the wind farm construction period will involve deliveries of materials for site access works, site compound, site offices and site security. This period will include deliveries of fencing materials for site boundaries and compounds, temporary fencing to protect trees, hedges and ecological buffer zones, road construction materials for site compounds and site entrances, and delivery of temporary site office units. It is anticipated that a maximum of 16 HGV vehicles (32 HGV movements) will visit the Site on a daily basis during the first month of the contract.

Months 2 to 10 will involve deliveries of materials for turbine hardstands, turbine foundations, site access tracks, electrical substation building and cable / ducting works, this period will include deliveries of road construction materials for access tracks and turbine hardstands, ready mix concrete and steel reinforcement for turbine foundations. It is anticipated that a maximum of 162 HGV vehicles (324 HGV

movements) will visit the site on a daily basis during the period. The peak traffic will occur on 8 days during the 5 month period between months 6 to 10 when turbine foundations are poured. Concrete pours for individual turbine foundations will generate 120 HGV arrivals (240 HGV movements).

Months 10 to 16 will involve HGV movements for works associated with turbine delivery, turbine erection, turbine commissioning, electrical works, grid connection works, road reinstatement, road surfacing, site landscaping and the removal of temporary works materials such as offices and fencing from site. It is anticipated that a maximum of 21 HGV vehicles (42 HGV movements) will visit the site on a daily basis during this period.

Based on the indicative timetable outlined above the peak times for HGV deliveries to site will be during months 6 to 10 (42 daily HGV deliveries + 120 additional deliveries during concrete pours which will take place on eight separate days during this period). Development traffic will be distributed throughout the day with morning, afternoon and evening peaks. The distribution of Development traffic is shown in Table 6 during the construction of Turbine Foundations.

Time	Arrivals		Departures	
	HGV	LGV	HGV	LGV
06.00 – 07.00		35		
07.00 – 08.00	20	20	20	
08.00 – 09.00	15	5	15	2
09.00 – 10.00	15		15	
10.00 – 11.00	15		15	
11.00 – 12.00	20		20	
12.00 – 13.00	15		15	
13.00 – 14.00	10	5	10	5
14.00 – 15.00	15		15	
15.00 – 16.00	15		15	
16.00 – 17.00	10		10	
17.00 – 18.00	7	2	7	5
18.00 – 19.00	5		5	20
19.00 – 20.00				35

Table 6 - Development Traffic Profile

7.3 Construction Period – Light Vehicles\Vans and Construction Personnel

The number of staff on site will vary according to the phase of the construction, peaking at approximately 92 at the height of the construction period. It is expected that the majority of workers will arrive on site in mini-buses and crew vehicles which are used to transport teams of workers from different construction disciplines. Labour vehicle sharing will be actively encouraged to reduce vehicular movements.

It is estimated that 55-60 vehicles will visit the site on a daily basis during the peak construction period. Parking for staff will be provided within the Temporary Construction Compound and no parking will be allowed for construction workers on the public road network in the vicinity of the Site. A number of additional unscheduled visits may be required throughout the construction period for site inspections and unforeseen circumstances.

7.4 Operational Period – Traffic

The vehicle movements associated with the operational period of the Proposed Development will be very low. Trips during the operational period would normally be made by light goods vehicles associated with site monitoring, servicing, cleaning and maintenance operations. During the operational period, parking will be provided within the site and security gates will be set back from the public road to allow operatives to access the site without obstructing the public road network.

Scheduled Site Visits

Weekly maintenance, estimated two visits by two service personnel – 208 trips per year.
Six-month service, estimated of two visits by two service personnel – 4 trips
Annual service, two visits by two service personnel – 4 trips
Monthly visit by Developer or agents to check over the site, grass cutting etc. – 12 trips

Unscheduled Site Visits

Visits which may arise as a result of malfunction, damage or vandalism. – 5 trips

The frequency of vehicle trips associated with servicing, monitoring and upkeep of the Site are expected to be in the region of 230 trips per year.

7.5 Decommissioning Period – Traffic

The vehicle movements associated with the Decommissioning period of the Proposed Development are estimated to be similar to the average daily traffic generated during the construction period without the peaks generated by concrete deliveries for turbine construction. The Decommissioning period will take approximately 18 Months, during which time the entire infrastructure will be removed from Site.

8 PROPOSED MITIGATION MEASURES

The impact of the traffic volumes generated by the Proposed Development have been identified as being temporary and associated with a 16 to 18 month construction and an 18 month decommissioning period. The Proposed Development will generate low volumes of traffic during the operation of the wind farm.

In order to minimise the impact of development traffic on the local community and public road users, the following mitigation measures have been considered:

HGV movements will generally be limited to 07:00 - 19:00 Monday to Friday and 08:00 - 13:00 on Saturday. Deliveries will be scheduled to avoid peak times around the morning and evening peak hours. This will avoid HGV traffic arriving during the morning peak hour creating conflict with local residents on their commute/school run. Construction personnel will be encouraged to car-pool, or to travel to site in minibuses. The delivery of turbine components will take place outside peak traffic hours and will be subject to agreement with the local authority.

- Wheel cleaning equipment will be used on site to prevent mud and stones being transferred from the Proposed Development to the public road network. All drivers will be required to check that their vehicle is free from dirt and stones prior to departure from the construction Site. In addition, any dust generating activities will be minimised where practical during windy conditions, and drivers will adopt driving practices to minimise dust creation. Finally, loads will be covered into and out of the site where required to ensure that the spillage or deposit of clay, rubble or other debris on the public road network is prevented.

- Construction works on the public road network will be carried out under a road opening licence with an agreed Traffic Management Plan in accordance with Chapter 8 of the Traffic Signs Manual.

- During the construction phase, clear construction warning signs will be placed on the L8544, L3407 and L3408 advising the general public as to the presence of the construction Site. The site entry points will also be appropriately signed. Access to the construction site will be controlled by on site personnel and all visitors will be asked to sign in and out of the site by security / site personnel. Security gates will be sufficiently set back from the road, so that vehicles entering the Site will stop well clear of the public road, thus obviating the queuing of construction traffic on the public road network. Site visitors will all receive a suitable Health and Safety site induction, and Personal Protective Equipment ("PPE") will be worn.

- Grid Connection works will proceed at a rate of approximately 100m per work shift, the rate will depend on the ground conditions and the number of existing services encountered in the excavation. The works area will be fully enclosed within the traffic management system. Traffic management using temporary traffic lights shall be kept to the minimum length necessary to accommodate the works being undertaken and to minimise delays to the public road users.

- Longitudinal trench excavations in the public road shall be straight and parallel to the centre of the road/footway where practicable. Transverse road or footway crossings shall be at right angles to the kerb or property line. Bituminous and concrete road surfaces and footways be cut using a road saw, concrete saw or equivalent mechanical means to the full depth of the bituminous or concrete material prior to any excavation work. The edges of the road shall be trimmed to provide an overlap for permanent road reinstatement in accordance with chapter 7 of the Managing Openings in Public Roads Specification.

- The Grid Connection cable trench shall be excavated using a rubber tyre excavator on all public roads. The sides of the trench shall be supported to prevent damage to the road. Material arising from trench excavations may be stored at a safe location within the works area and used to backfill trenches, surplus excavated material shall be removed from Site and disposed at licenced landfills.

- All excavated trenches in the public road network are to be reinstated at the end of the work shift, A temporary reinstatement shall be carried out in the event that the works are not completed at the end of the work shift.

- Once construction of the Proposed Development is completed, all portacabins, machinery and equipment will be removed and temporary hardstanding's excavated and reinstated. The area will be re-graded with the topsoil to a natural profile and allowed to regenerate from the seed bank within the topsoil.

9 SUMMARY

This TMP has been undertaken to outline the management of traffic movements during the construction, operation and decommissioning phases of the Gortloughra Wind Farm.

Increased volumes of traffic will be generated by the Proposed Development during the construction and decommissioning periods. Traffic analysis carried out in the Traffic and Transport Assessment (TTA) report for the project shows that traffic generated by the Proposed Development during the construction, operation and decommissioning phases of the Gortloughra Wind Farm can be accommodated on the existing public road network.

During the operational phase of the project the Site will be accessed by a light vehicle an estimated 230 times per year for routine monitoring, servicing and site maintenance.

Priority at junctions for existing public road users will remain unchanged during the construction, operation and decommissioning phases of the Proposed Development.

All traffic accessing and leaving the Site will use the designated Haul Route for construction and decommissioning traffic.

Mitigation measures have been proposed to minimise impacts of construction traffic on the public road network and local road users. Security gates will be provided at the site access. Gates will be set back from the public road carriageway edge to accommodate articulated vehicles. Wheel cleaning facilities will be provided at the site entrance and at works locations on the public road network to prevent mud and dust spreading to the public road.

Temporary Construction Compounds will be provided on Site and will remain for the duration of the construction period. The compound will be used to store construction materials for the proposed Development and as a parking and turning facility for construction and delivery traffic.

Components for a single turbine will be delivered to site in three separate abnormal load convoys over the period of one week. The delivery of eight turbines will take place over a four-month period. The convoys will travel at times agreed with An Garda Síochána. The haulage contractor will obtain all necessary permits for the transportation of abnormal loads from An Garda Síochána and the relevant County Council through which the load will travel.

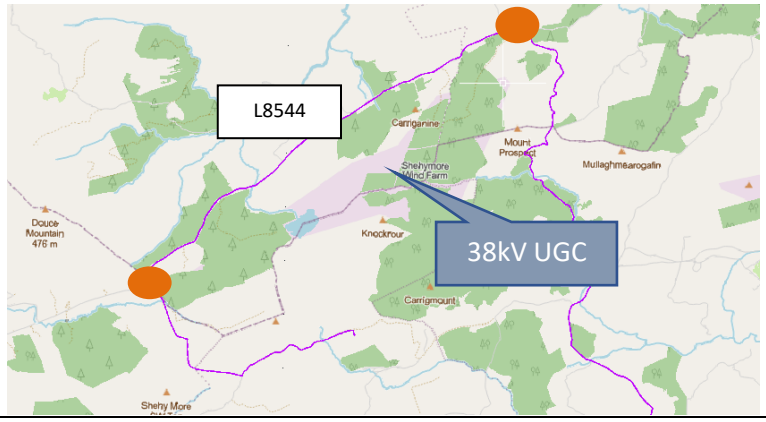
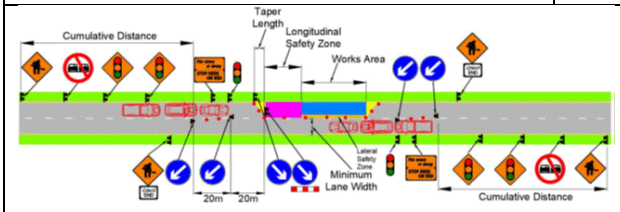
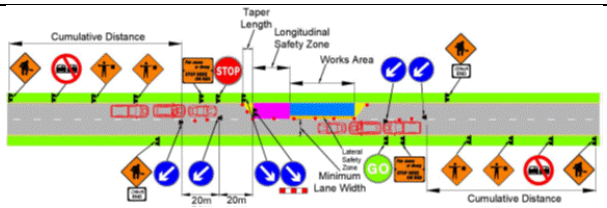
Grid Connection works carried out on the public road network will be fully enclosed within the traffic management system.

APPENDIX A

GRID CONNECTION WORKS
DUNMANWAY ROUTE OPTION

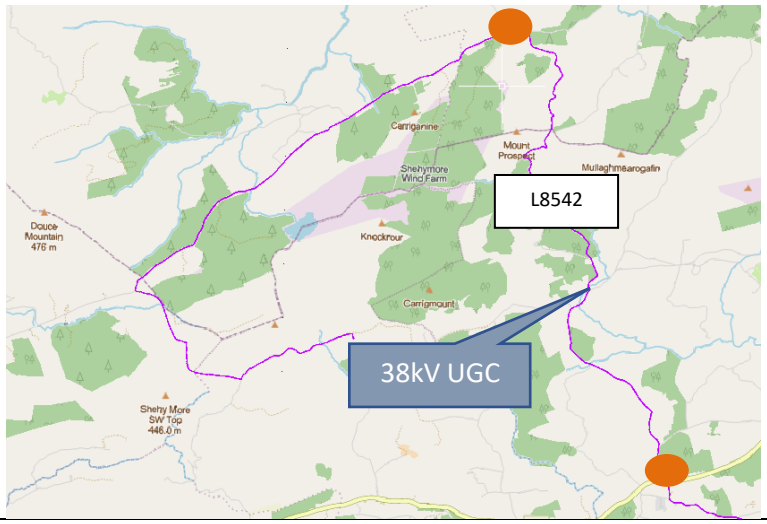
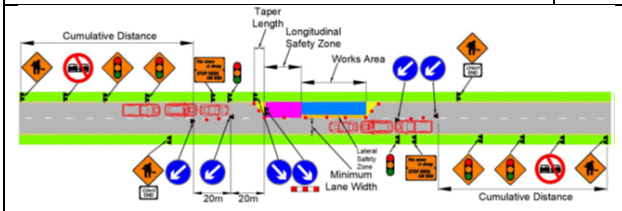
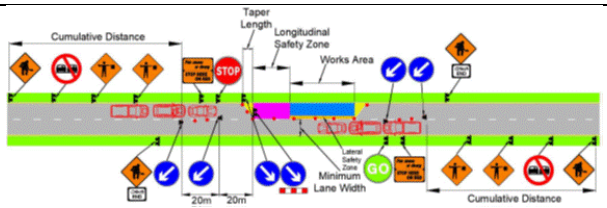
L8544 Grid Connection Works Location

Works Location	L8544 - 110kV Underground Grid Connection (9.6km)
Road Number	L8544
Description of Works to be Undertaken	Construction of 110kV underground grid connection and joint bays in the public road.
Road Width (approximate)	3.0m carriageway with grass verges
Traffic Management System	Road Closure during trenching works Temporary Traffic Lights / Stop & Go / Flagman during cable pulling and surfacing works.

	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	96 Days Trenching, ducting, reinstatement and temporary surfacing. 10 days 110kV cable installation 5 days surfacing.
Duration of Road Closure	96 days
Diversion	L8542 – L4608 – R584 - R585 - L8776 L8542 - R585 – L8776
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
 Temporary Traffic Lights	 Stop & Go

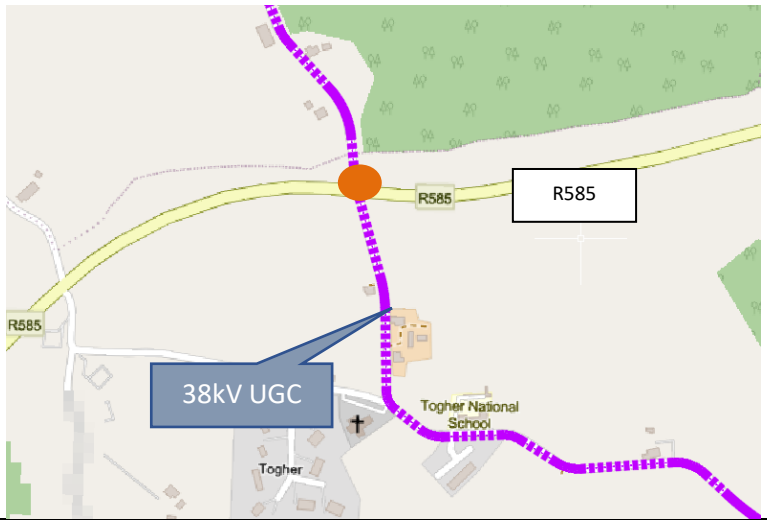
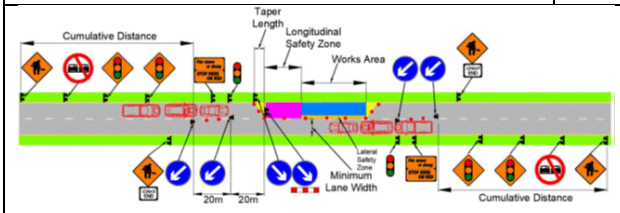
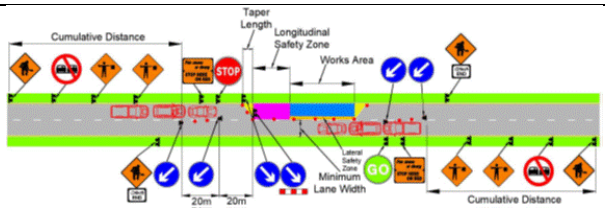
L8542 Grid Connection Works Location

Works Location	L8542 - 110kV Underground Grid Connection (7.8km)
Road Number	L8542
Description of Works to be Undertaken	Construction of 110kV underground grid connection and joint bays in the public road.
Road Width (approximate)	3.0m carriageway with grass verges
Traffic Management System	Road Closure during trenching works

	Temporary Traffic Lights / Stop & Go / Flagman during cable pulling and surfacing works.
	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	78 Days Trenching, ducting, reinstatement and temporary surfacing. 10 days 110kV cable installation 5 days surfacing.
Duration of Road Closure	78 days
Diversion	L8541 / L8536 /L8546 / L85425
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
 Temporary Traffic Lights	 Stop & Go

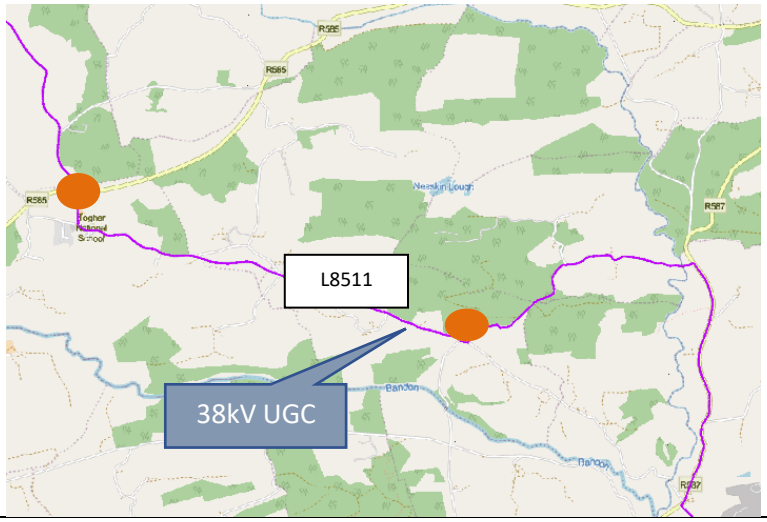
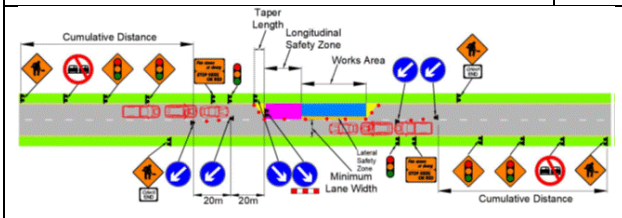
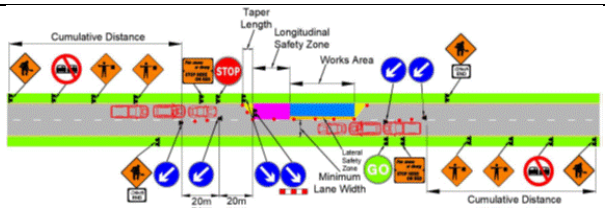
R585 Grid Connection Works Location

Works Location	R585 - 110kV Underground Grid Connection (7.8km)
Road Number	R585
Description of Works to be Undertaken	Construction of 110kV underground grid connection
Road Width (approximate)	3.0m carriageway with grass verges
Traffic Management System	Temporary traffic lights during trenching works

	Temporary Traffic Lights / Stop & Go / Flagman during cable pulling and surfacing works.
	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	2 Days Trenching, ducting, reinstatement and temporary surfacing. 1 day surfacing.
Duration of Road Closure	N/A
Diversion	N/A
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
 Temporary Traffic Lights	 Stop & Go

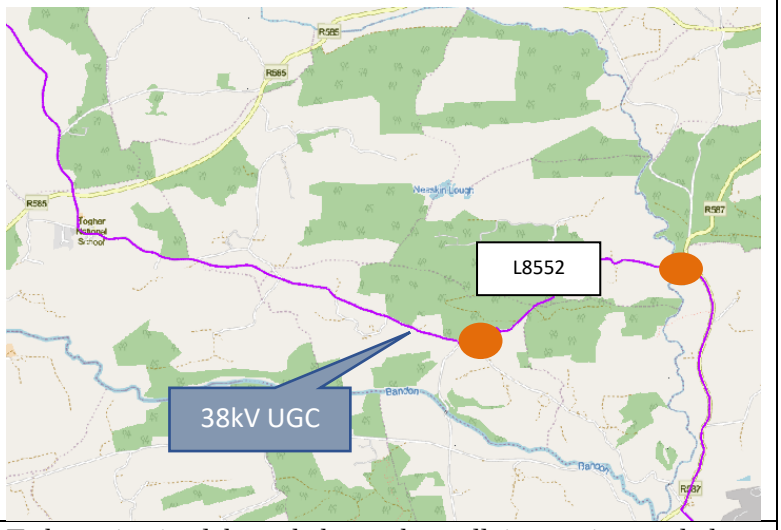
L8551 and L85514 Grid Connection Works Location

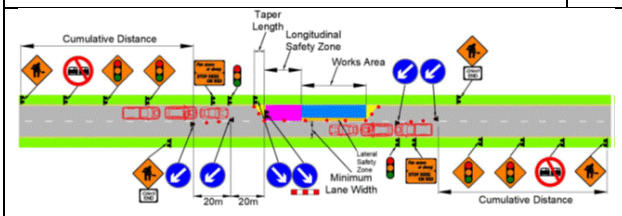
Works Location	L8551 and L85514 - 38kV Underground Grid Connection (3.2km)
Road Number	L8551 and L85514
Description of Works to be Undertaken	Construction of 110kV underground grid connection and joint bays in the public road.

Road Width (approximate)	3.0m carriageway with grass verges
Traffic Management System	Road Closure during trenching works Temporary Traffic Lights / Stop & Go / Flagman during cable pulling and surfacing works.
	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	32 Days Trenching, ducting, reinstatement and temporary surfacing. 5 days 110kV cable installation 3 days surfacing.
Duration of Road Closure	32 days
Diversion	R585 / R587
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
 Temporary Traffic Lights	 Stop & Go

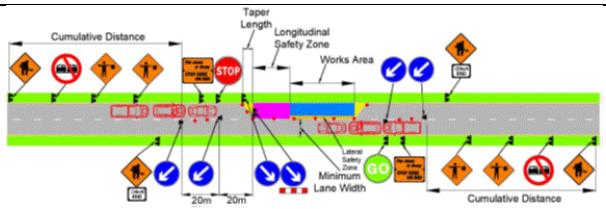
L8552 Grid Connection Works Location

Works Location	L8552 - 110kV Underground Grid Connection (1.9km)
Road Number	L8552

Description of Works to be Undertaken	Construction of 110kV underground grid connection and joint bays in the public road.
Road Width (approximate)	3.0m carriageway with grass verges
Traffic Management System	Road Closure during trenching works Temporary Traffic Lights / Stop & Go / Flagman during cable pulling and surfacing works.
	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	19 Days Trenching, ducting, reinstatement and temporary surfacing. 3 days 110kV cable installation 2 days surfacing.
Duration of Road Closure	32 days
Diversion	R585 / R587 / L8511
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,



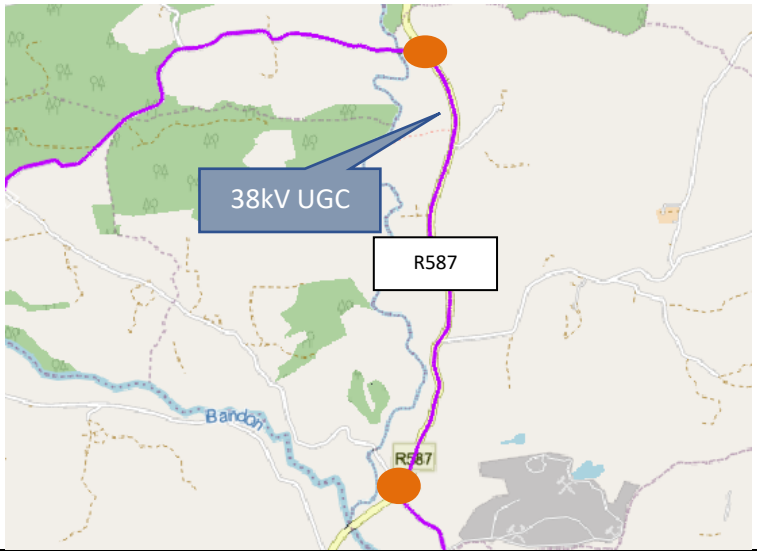
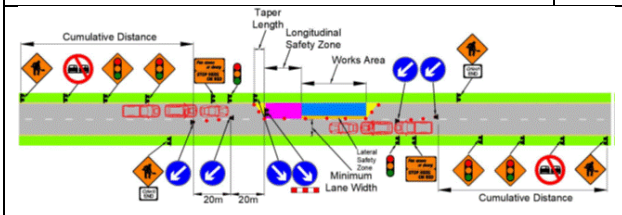
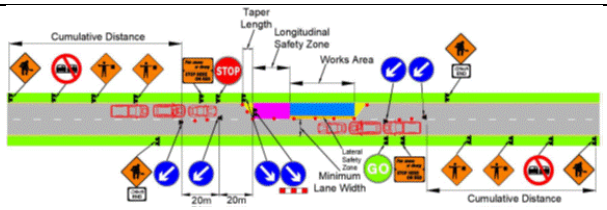
Temporary Traffic Lights



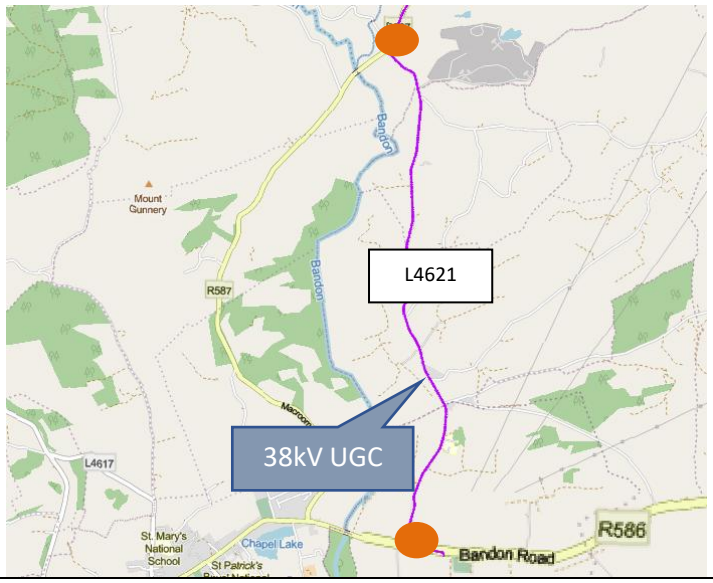
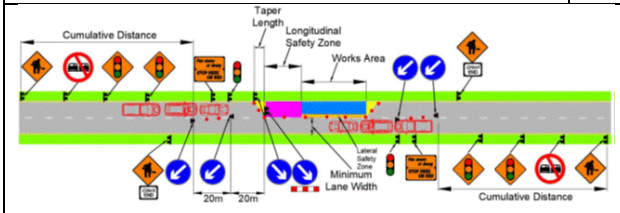
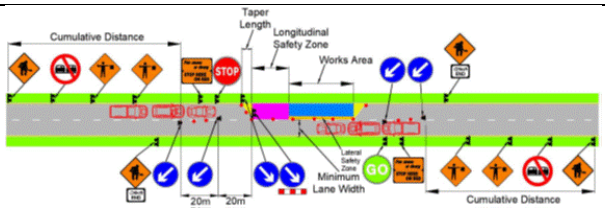
Stop & Go

R587 Grid Connection Works Location

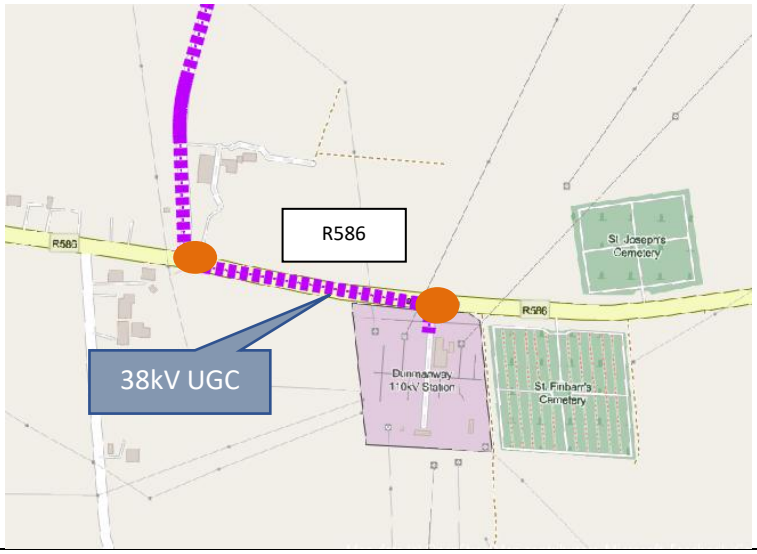
Works Location	R587 - 110kV Underground Grid Connection (1.8km)

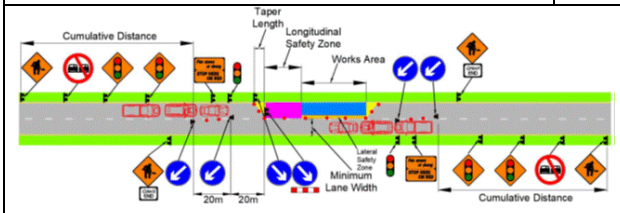
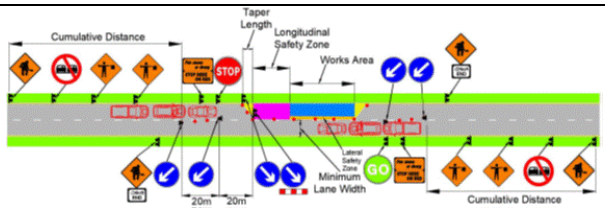
Road Number	R587
Description of Works to be Undertaken	Construction of 110kV underground grid connection and joint bays in the public road.
Road Width (approximate)	6.0m carriageway with hard strips and grass verges
Traffic Management System	Temporary traffic lights during trenching works Temporary Traffic Lights / Stop & Go / Flagman during cable pulling and surfacing works.
	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	18 Days Trenching, ducting, reinstatement and temporary surfacing. 3 days 110kV cable installation 2 days surfacing.
Duration of Road Closure	N/A
Diversion	N/A
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
 Temporary Traffic Lights	 Stop & Go

L4621 Grid Connection Works Location

Works Location	L4621 - 110kV Underground Grid Connection (3.1km)
Road Number	L4621
Description of Works to be Undertaken	Construction of 110kV underground grid connection and joint bays in the public road.
Road Width (approximate)	3.0m carriageway with grass verges
Traffic Management System	Road Closure during trenching works Temporary Traffic Lights / Stop & Go / Flagman during cable pulling and surfacing works.
	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	31 Days Trenching, ducting, reinstatement and temporary surfacing. 5 days 110kV cable installation 2 days surfacing.
Duration of Road Closure	31 days
Diversion	R586 / R587
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
 Temporary Traffic Lights	 Stop & Go

R586 Grid Connection Works Location

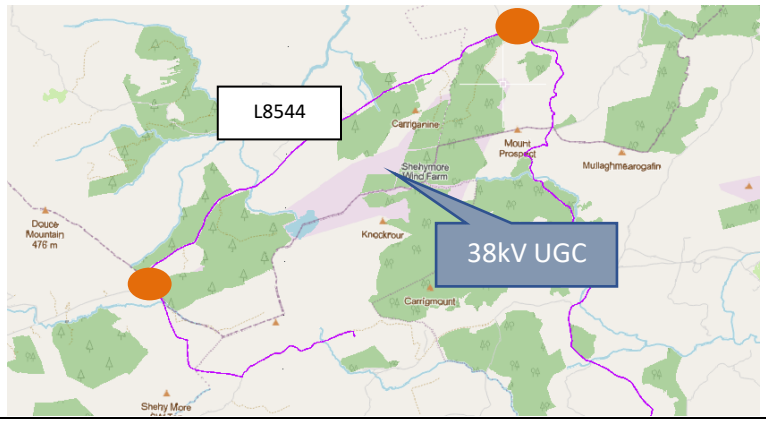
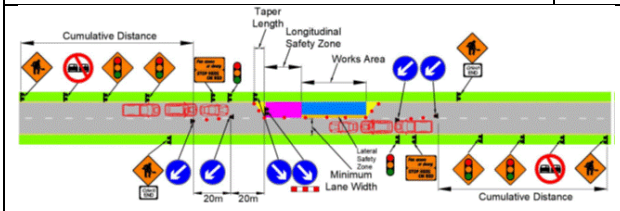
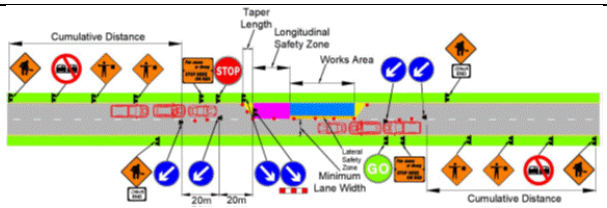
Works Location	R586 - 110kV Underground Grid Connection (0.2km)
Road Number	R586
Description of Works to be Undertaken	Construction of 110kV underground grid connection and joint bays in the public road.
Road Width (approximate)	6.0m carriageway with hard strips and grass verges
Traffic Management System	Temporary traffic lights during trenching works Temporary Traffic Lights / Stop & Go / Flagman during cable pulling and surfacing works.
	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	2 Days Trenching, ducting, reinstatement and temporary surfacing. 1 day 110kV cable installation 1 day surfacing.
Duration of Road Closure	N/A
Diversion	N/A
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,

	
Temporary Traffic Lights	Stop & Go

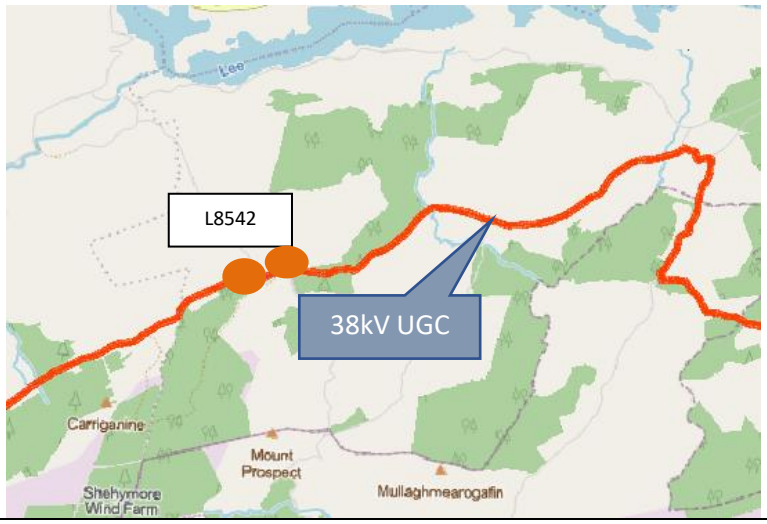
APPENDIX B

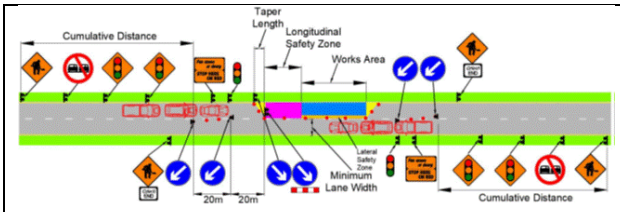
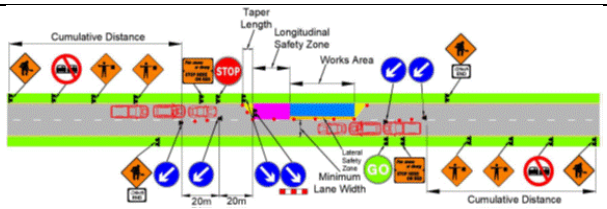
GRID CONNECTION WORKS
CARRIGDANGAN ROUTE OPTION

L8544 Grid Connection Works Location

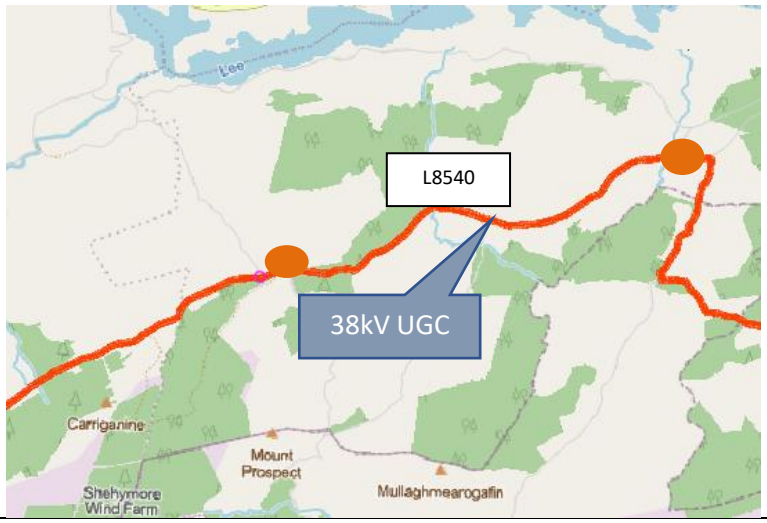
Works Location	L8544 - 110kV Underground Grid Connection (9.6km)
Road Number	L8544
Description of Works to be Undertaken	Construction of 110kV underground grid connection and joint bays in the public road.
Road Width (approximate)	3.0m carriageway with grass verges
Traffic Management System	Road Closure during trenching works Temporary Traffic Lights / Stop & Go / Flagman during cable pulling and surfacing works.
	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	96 Days Trenching, ducting, reinstatement and temporary surfacing. 10 days 110kV cable installation 5 days surfacing.
Duration of Road Closure	96 days
Diversion	L8542 – L4608 – R584 - R585 - L8776 L8542 - R585 – L8776
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
 Temporary Traffic Lights	 Stop & Go

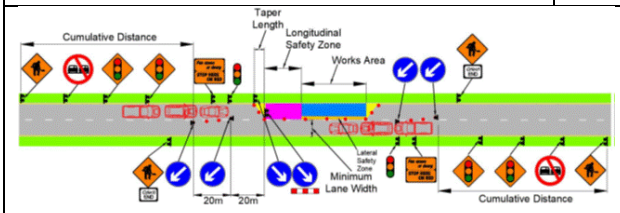
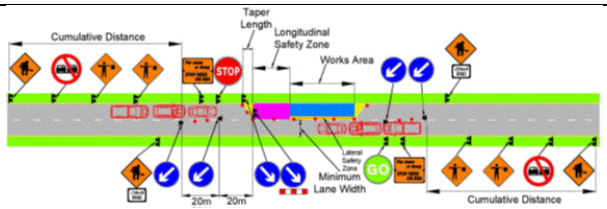
L8542 Grid Connection Works Location

Works Location	L8542 - 110kV Underground Grid Connection (0.2km)
Road Number	L8542
Description of Works to be Undertaken	Construction of 110kV underground grid connection and joint bays in the public road.
Road Width (approximate)	3.0m carriageway with grass verges
Traffic Management System	Road Closure during trenching works Temporary Traffic Lights / Stop & Go / Flagman during cable pulling and surfacing works.
	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	2 Days Trenching, ducting, reinstatement and temporary surfacing. 1 day 110kV cable installation 1 day surfacing.
Duration of Road Closure	2 days
Diversion	L8541 / L8536 / L8546 / L85425
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,

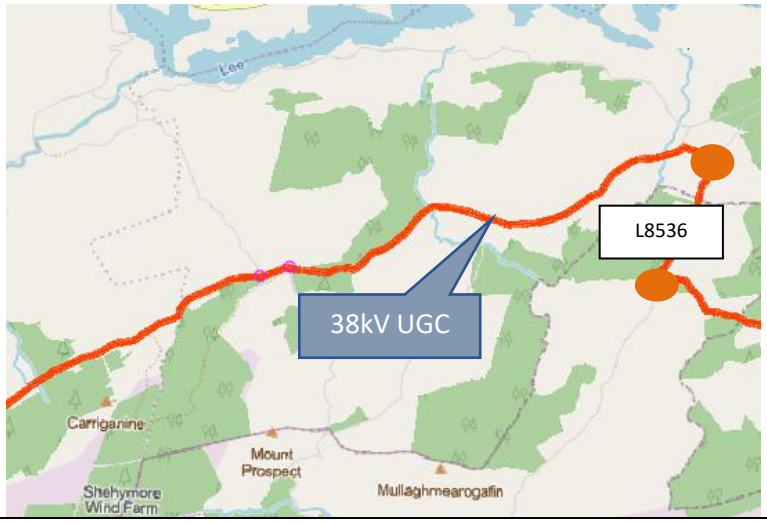
 Temporary Traffic Lights	 Stop & Go

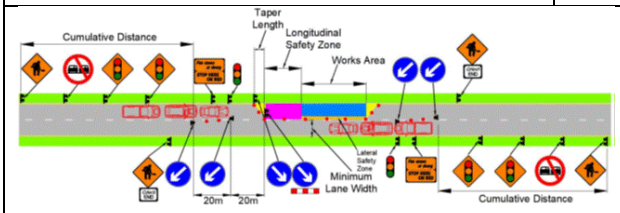
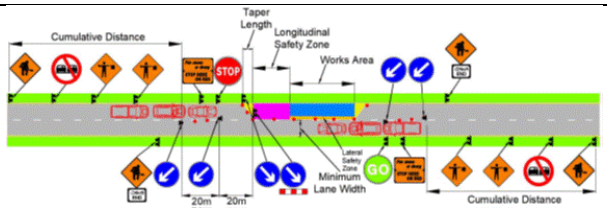
L8540 Grid Connection Works Location

Works Location	L8540 - 110kV Underground Grid Connection (3.4km)
Road Number	L8540
Description of Works to be Undertaken	Construction of 110kV underground grid connection and joint bays in the public road.
Road Width (approximate)	3.0m carriageway with grass verges
Traffic Management System	Road Closure during trenching works Temporary Traffic Lights / Stop & Go / Flagman during cable pulling and surfacing works.
	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	34 Days Trenching, ducting, reinstatement and temporary surfacing. 5 days 110kV cable installation 3 days surfacing.
Duration of Road Closure	34 days
Diversion	L8541 / L8541 / L4608

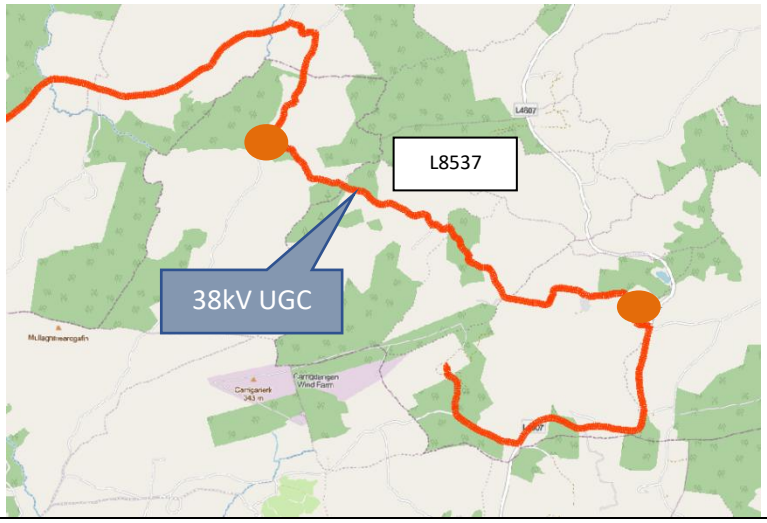
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
 Temporary Traffic Lights	 Stop & Go

L8536 Grid Connection Works Location

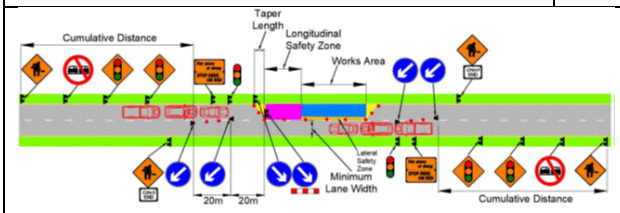
Works Location	L8536 - 110kV Underground Grid Connection (1.1km)
Road Number	L8536
Description of Works to be Undertaken	Construction of 110kV underground grid connection and joint bays in the public road.
Road Width (approximate)	3.0m carriageway with grass verges
Traffic Management System	Road Closure during trenching works Temporary Traffic Lights / Stop & Go / Flagman during cable pulling and surfacing works.
	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	11 Days Trenching, ducting, reinstatement and temporary surfacing. 3 days 110kV cable installation 2 days surfacing.
Duration of Road Closure	11 days

Diversion	L85110 / L4607 / L8537
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
 Temporary Traffic Lights	 Stop & Go

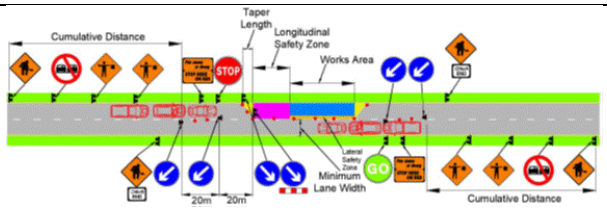
L8537 Grid Connection Works Location

Works Location	L8537 - 110kV Underground Grid Connection (4.0km)
Road Number	L8537
Description of Works to be Undertaken	Construction of 110kV underground grid connection and joint bays in the public road.
Road Width (approximate)	3.0m carriageway with grass verges
Traffic Management System	Road Closure during trenching works Temporary Traffic Lights / Stop & Go / Flagman during cable pulling and surfacing works.
	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	40 Days Trenching, ducting, reinstatement and temporary surfacing. 5 days 110kV cable installation 3 days surfacing.

Duration of Road Closure	40 days
Diversion	L8536 / L8538 / L4607
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,

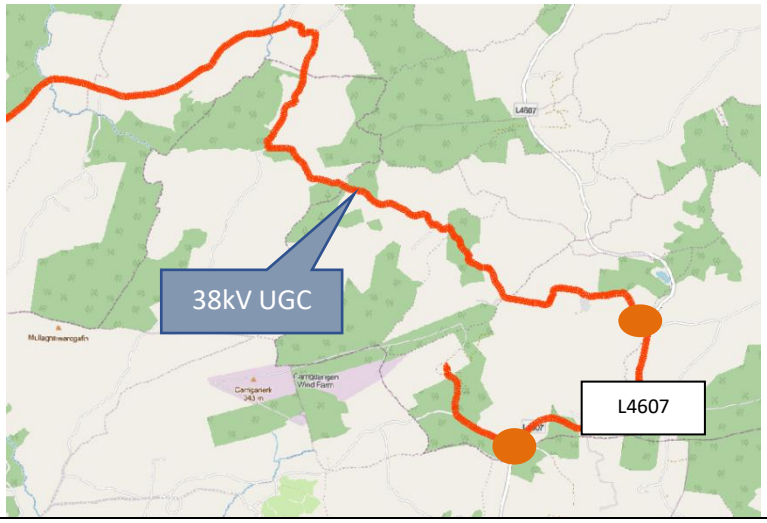


Temporary Traffic Lights

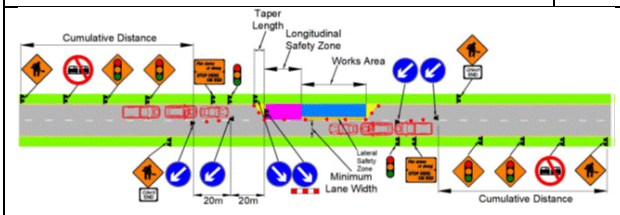
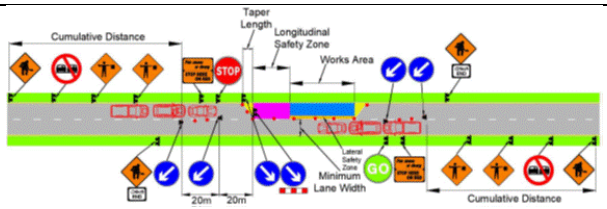


Stop & Go

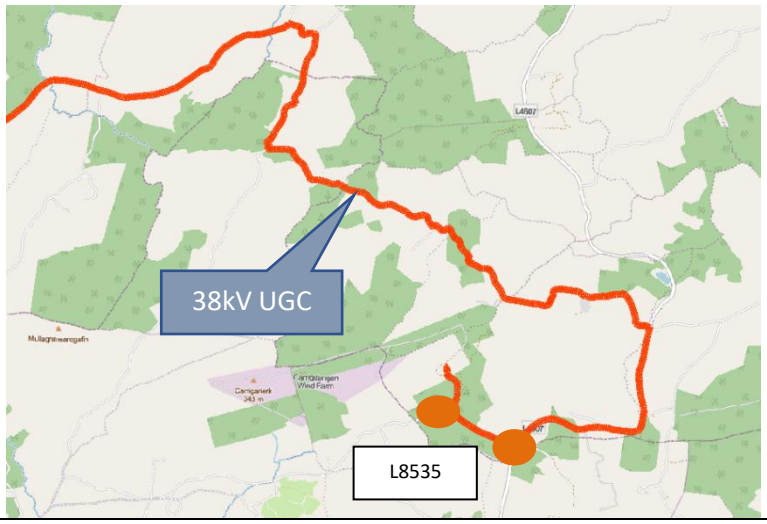
L4607 Grid Connection Works Location

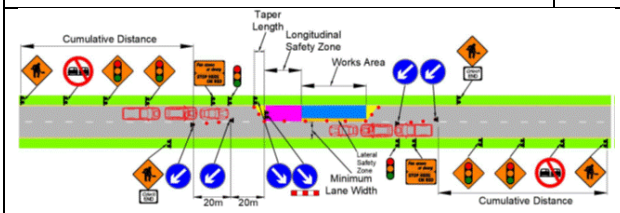
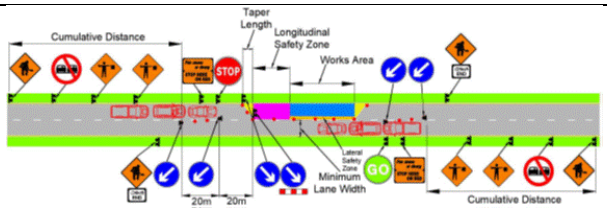
Works Location	L4607 - 110kV Underground Grid Connection (1.9km)
Road Number	L4607
Description of Works to be Undertaken	Construction of 110kV underground grid connection and joint bays in the public road.
Road Width (approximate)	3.0m carriageway with grass verges
Traffic Management System	Road Closure during trenching works Temporary Traffic Lights / Stop & Go / Flagman during cable pulling and surfacing works.
	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	19 Days Trenching, ducting, reinstatement and temporary surfacing. 4 days 110kV cable installation

	2 days surfacing.
Duration of Road Closure	19 days
Diversion	L8531 / L8527
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,

 Temporary Traffic Lights	 Stop & Go

L8535 Grid Connection Works Location

Works Location	L8535 - 110kV Underground Grid Connection (0.6km)
Road Number	L8535
Description of Works to be Undertaken	Construction of 110kV underground grid connection and joint bays in the public road.
Road Width (approximate)	3.0m carriageway with grass verges
Traffic Management System	Road Closure during trenching works Temporary Traffic Lights / Stop & Go / Flagman during cable pulling and surfacing works.
	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	6 Days Trenching, ducting, reinstatement and temporary surfacing.

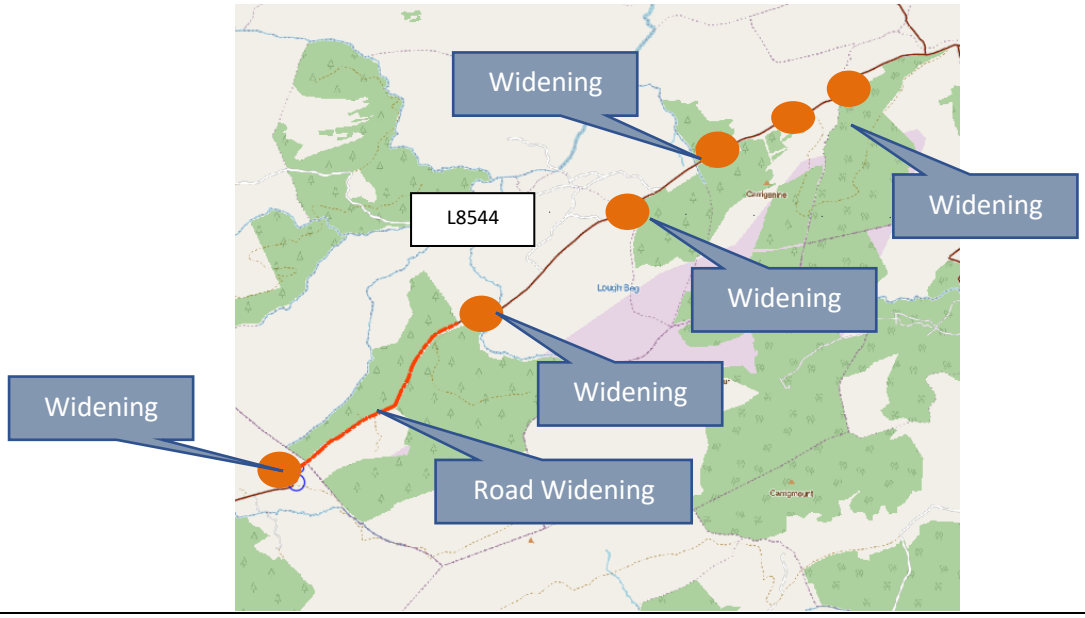
	2 days 110kV cable installation 1 day surfacing.
Duration of Road Closure	19 days
Diversion	L4607 / L8534 / L85341
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
 Temporary Traffic Lights	 Stop & Go

APPENDIX C

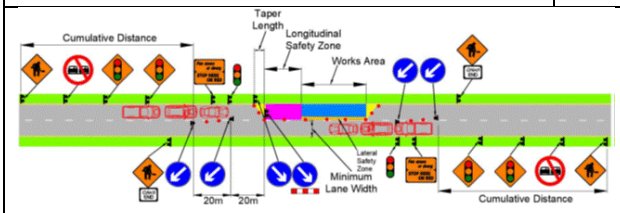
TURBINE DELIVERY ROUTE – ENABLING WORKS

L8544 Road Widening

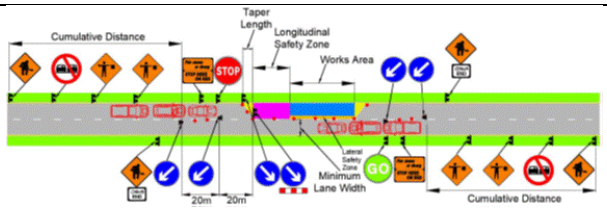
Works Location	L8544 – Road Widening (1.75km)
Road Number	L8544
Description of Works to be Undertaken	Widening of existing carriageway to turbine suppliers requirements
Road Width (approximate)	3.0m carriageway with grass verges
Traffic Management System	Road Closure during widening works Temporary Traffic Lights / Stop & Go / Flagman during surfacing works.



Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	28 Days Trenching, ducting, reinstatement and temporary surfacing. 5 days surfacing.
Duration of Road Closure	28 days
Diversion	L8542 – L4608 – R584 - R585 - L8776 L8542 - R585 – L8776
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,



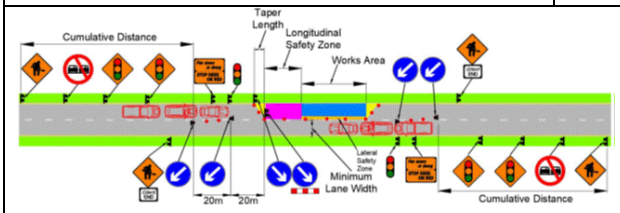
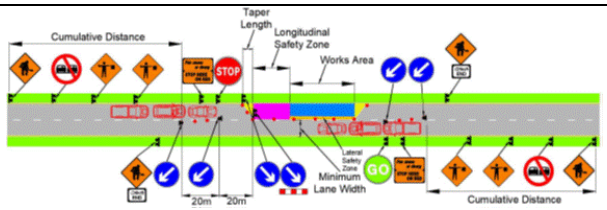
Temporary Traffic Lights



Stop & Go

R585 Enabling Works for turbine Delivery

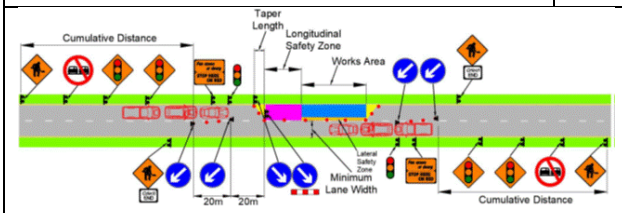
Works Location	R585 – Enabling Works for Turbine Delivery
Road Number	R585
Description of Works to be Undertaken	Blade transfer areas, junction widening at the L4607, hedge trimming, alterations to signs and street furniture.
Road Width (approximate)	6.0m carriageway with hard strips and grass verges
Traffic Management System	Temporary Traffic Lights / Stop & Go / Flagman during Turbine delivery.

Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	8 weeks
Duration of Road Closure	N/A
Diversion	N/A
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
 Temporary Traffic Lights	 Stop & Go

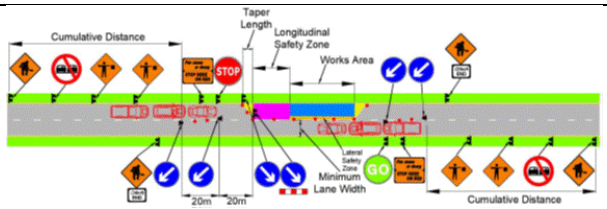
L4607 Enabling Works for turbine Delivery

Works Location	L4607 – Enabling Works for Turbine Delivery
Road Number	L4607
Description of Works to be Undertaken	Road widening, hedge trimming, alterations to signs and street furniture.
Road Width (approximate)	5.0m carriageway with grass verges
Traffic Management System	Temporary Traffic Lights / Stop & Go / Flagman during Turbine delivery.

Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	2 weeks
Duration of Road Closure	N/A
Diversion	N/A
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,



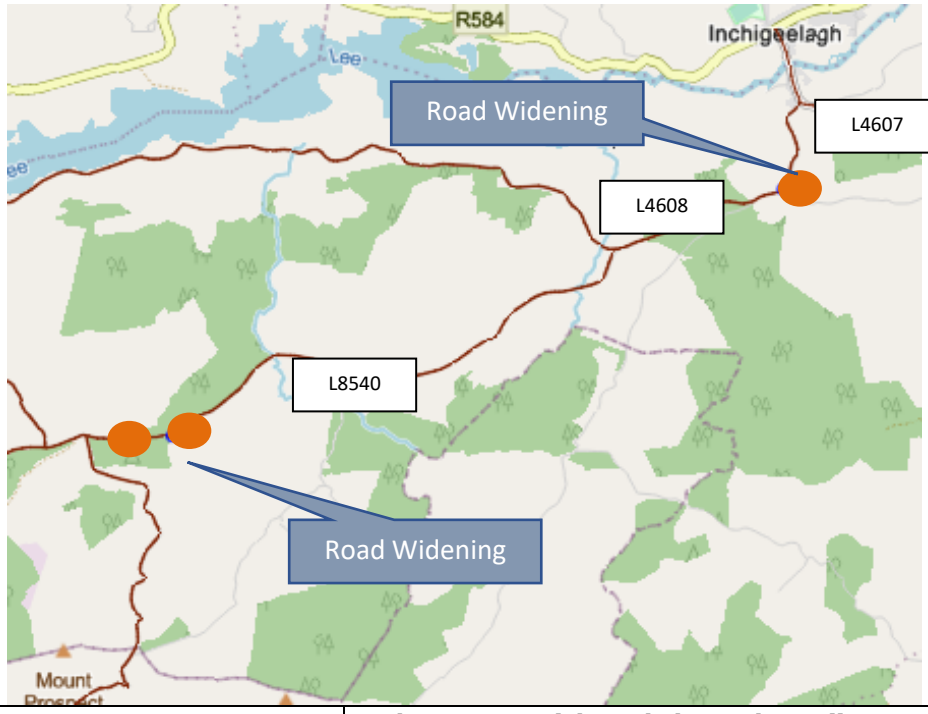
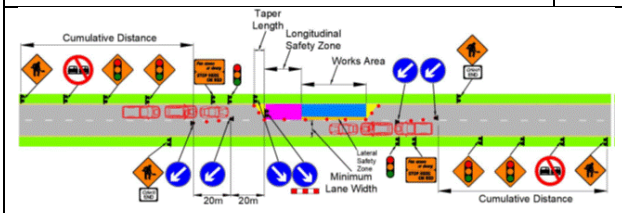
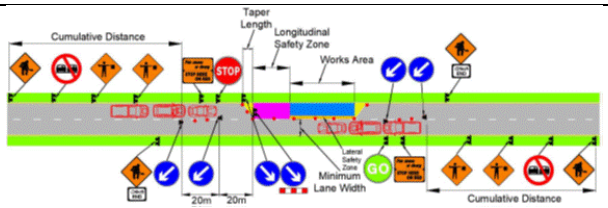
Temporary Traffic Lights



Stop & Go

L4608 / L8540 / L8542 Enabling Works for turbine Delivery

Works Location	L4608 / L8540 / L8542– Enabling Works for Turbine Delivery
Road Number	L4608 / L8540 / L8542
Description of Works to be Undertaken	Road widening, hedge trimming, alterations to signs and street furniture.
Road Width (approximate)	5.0m carriageway with grass verges
Traffic Management System	Temporary Traffic Lights / Stop & Go / Flagman during

	Turbine delivery.
	
Local Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
Duration of Works	3 weeks
Duration of Road Closure	N/A
Diversion	N/A
Emergency Access	To be maintained through the works at all times using steel plates / temporary backfilling of trenches,
 Temporary Traffic Lights	 Stop & Go