Appendix 2D

GCRR (Grid Connection Route Report)

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MWP

GRID CONNECTION ROUTE REPORT

Ballinlee Wind Farm

Ballinlee Green Energy Limited

September 2025

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1. Introduction

1.1 Development Description

Ballinlee Green Energy Ltd (the Applicant) propose to develop a wind farm (named Ballinlee Wind Farm) comprising seventeen (17) No. wind turbines located on privately-owned predominantly agricultural lands in east County Limerick.

The wind farm site under consideration is located within the townlands of Ballincurra, Ballinlee South, Ballingayrour, Ballinrea, Knockuregare, Ballinlee North, Carrigeen and Camas South approximately 18km south of Limerick City and 3km southwest of Bruff, Co. Limerick. The site is situated in a rural area characterised by agricultural holdings and one-off residential dwellings. Some patches of forestry plantation occur within the proposed development and some on neighbouring properties.

Table 1-1 sets out the characteristics of the project elements for which development consent is being sought and all other associated project components.

Table 1-1: Characteristics of the Proposed Project

Proposed Development for which consent is sought	**Core Wind Farm Components** • Seventeen (17) No. wind turbines (turbine tip height of 160m, and 150m (T6)) with associated foundations and crane hardstand areas. • One (1) No. Permanent Meteorological Mast (92m height) and associated foundation, hardstand area and ancillary main crane hardstand area. • One (1) No. Electrical Substation (110kV) including Eirgrid compound, IPP, maintenance compounds, ancillary building, security fencing and all associated works. • Nine (9) No. site entrances. • New and upgraded internal site service tracks (approximately 10.8km of new internal access tracks to be constructed). • New clear span bridge over the Morningstar River. • Underground electric collector cable systems between turbines within the wind farm site. • Underground electric cabling systems between the wind farm site and connection point at existing Killonan 220/110kV substation. **Associated Components of the Proposed Development** • New temporary access track via R516 to facilitate turbine delivery route located in the townland of Tullovin. • Three (3) No. temporary construction site compounds (one approximately 95m x 50m and two approximately 55m x 25m). • Two (2) No. borrow pits to be used as a source of stone material during construction and for storage of excess excavated materials. • Nine (9) No. permanent and two (2) temporary deposition areas. • Associated surface water management systems. • Tree felling required for wind farm infrastructure.
Other Associated Project Components	• Whooper Swan Management Area works. • Habitat Enhancement areas works. • Landscaping, fencing and all associated works.

1.2 Scope of this Report

The Grid Connection Route Report provides high level details of the chosen route and describes the design of the Grid Connection Route. It is primarily focused on the section of the selected route that is on the public road connecting the Ballinlee Wind Farm onsite 110kV substation to the electricity grid via the existing Killonan 110/220kV substation. The portion of the grid route situated within the windfarm site is addressed in the CEMP. In addition to the details and design, the report also assesses the constraints along the route i.e. the process for identifying existing utilities, and considerations related to archaeological sensitivity and underlying geology and the design rationale and construction methodologies. This report should be read in conjunction with the grid connection route drawings included in **Appendix 1** and the EIAR **Volume II Chapter 04** Civil Engineering.

1.3 Site Location

The proposed development is located in a rural area of east Limerick, approximately 18km south of Limerick City and 3km southwest of Bruff. **Figure 1-1** outlines the location of the proposed development and the proposed main wind farm development site boundary included in the planning application.

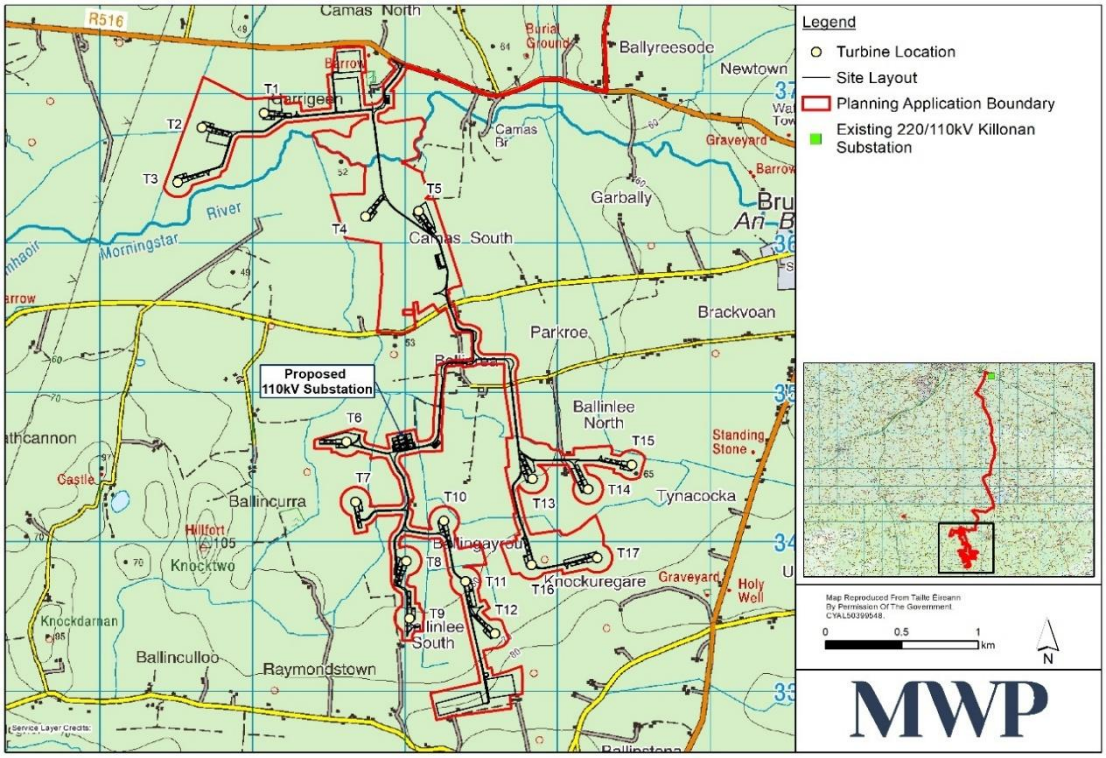


Figure 1-1: Map of proposed Wind Farm

2. Grid Connection Route Assessment

2.1 Route Description

The grid connection route consists of an underground electrical cable from a new on-site 110 kV electrical substation to be constructed in the wind farm site to the existing Killonan 220/110 kV substation 27.6km north of the wind farm site, 24.4km of which will be within public roads. The proposed 110 kV grid connection cable route is outlined in Figure 2-1.

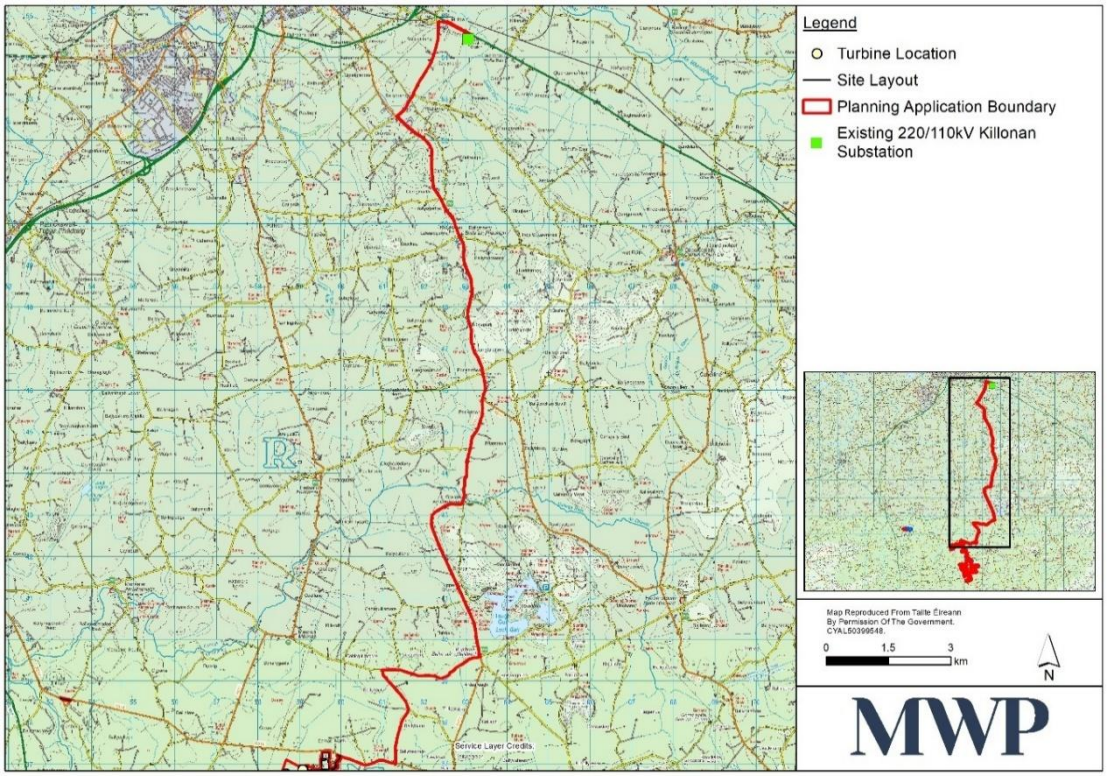


Figure 2-1: Map of proposed Grid Connection Route

Proposed Grid Connection Route:

- Exit the onsite substation and travel north along the access tracks to the R516 exit
- Depart wind farm via R516 exit, turn right and travel along the R516
- Travel along the R516 as far as the L8012/R516 junction
- At the junction and travel north onto the L8012
- Travel along the L8012 as far as the L8012/L8011 junction
- Continue onto the L8011
- Travel along the L8011 as far as the L1412/L8011 junction
- Exit the junction and travel east onto the L1412
- Travel along the L1412 as far as the R512/L1412 junction
- Exit the junction and travel north onto the R512

- Travel along the R512 as far as the L1170/R512 junction
- Exit the junction and travel northeast onto the L1170
- Travel along the L1170 as far as the L1171/L1170 junction
- Exit the junction and travel east onto the L1171
- Travel along the L1171 as far as the N24/L1171 roundabout
- Exit the roundabout and travel southeast onto the N24
- Turn right off the N24 into the Killonan 220/110 kV substation

The exact location of the underground HV ducting may be subject to minor modification following confirmatory site investigations, to be undertaken prior to construction and following consultation with Limerick City & County Council and all other relevant stakeholders, having regard to all environmental protection measures outlined in the planning application and accompanying technical reports. Any such minor modification will be within the planning application boundary.

2.2 Major Infrastructure

2.2.1 TII Road interactions

To facilitate ongoing maintenance of motorways and national primary roads and avoid disruption to traffic flows, Transport Infrastructure Ireland (TII) has previously refused permission to install high voltage cables within their motorway and national primary roadways. Based on the above the installation of high voltage cables along motorways and national primary roadways is avoided where practicable.

In the context of the Ballinlee Wind Farm grid connection, the first 700 metres of the route runs northwest along the N24 before turning south and continuing along regional and local roads toward the wind farm site. In the first 700m there are three crossings, 1 no. farm underpass and 2 no. box culverts. It is intended that the grid cable will be installed on the south side of the N24 carriageway but within the curtilage of the N24, the exact position of the cable and interface with the road curtilage will be agreed with TII and EirGrid.

2.2.2 Irish Rail interactions

The rail line between Limerick (Colbert) station and Killonan junction runs to the north of the proposed grid connection route; however, there is no direct interaction between the two. No other rail infrastructure interactions have been identified along the grid route. Figure 2-2 is a map that shows the existing Iarnród Éireann rail line in black and the proposed grid connection route in purple. A distance of at least 100m exists between these two infrastructure elements.

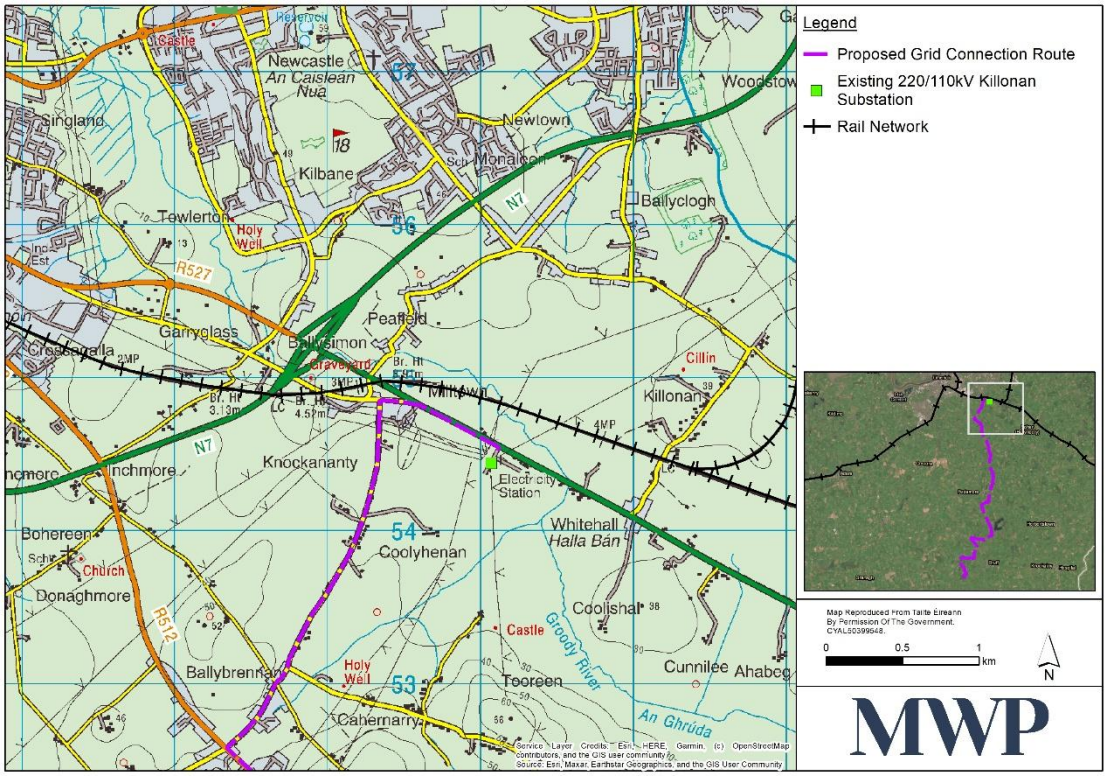


Figure 2-2: Map of existing Railway lines proximity to Grid Connection Route

2.3 Planning Search

MWP completed a planning search, in May 2025, using the LCCC online map viewer to determine if there are any other energy projects along the route of the proposed grid connection. Although no energy projects were found, planning reference 15549 shows a private wastewater rising main starting at Shannonside Galvanizing -Zinc Processors that travels northeast along the L1170 and then west along the L1171 to its discharge point. **Figure 2-3** below is an extract from LCCC planning map.

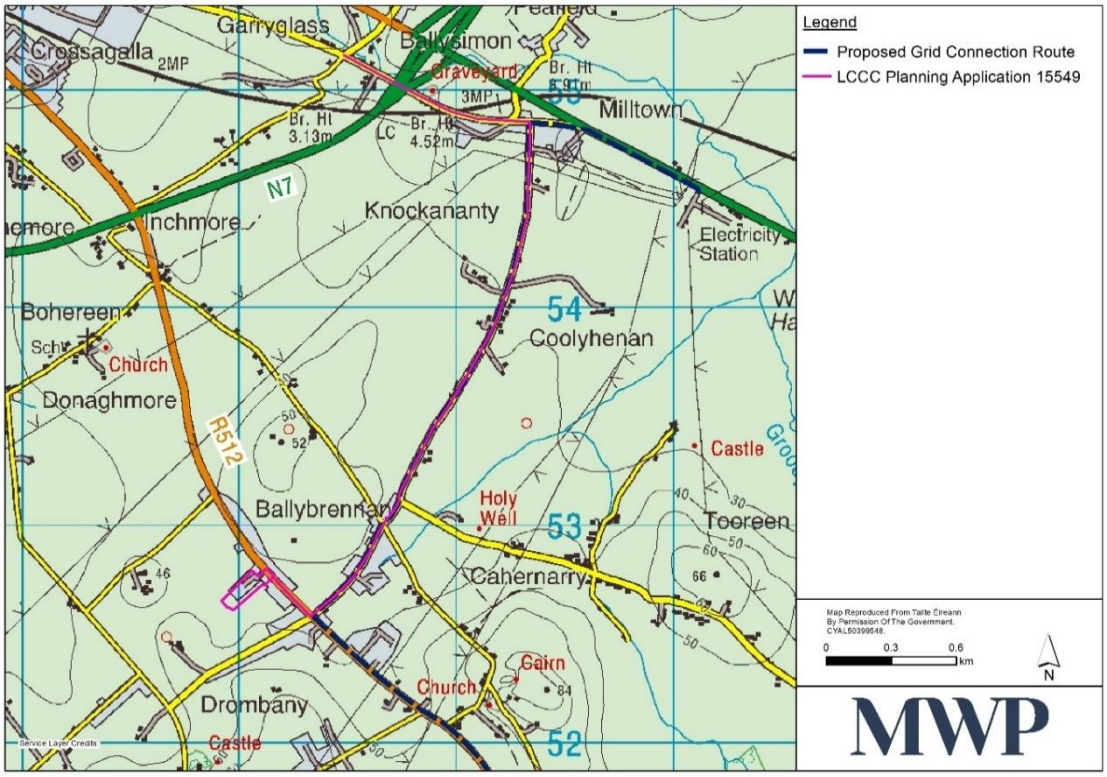


Figure 2-3: Map of LCCC online planning proximity to Grid Connection Route

2.4 Infrastructure Crossings

The proposed grid connection route from the existing Killonan 220/110 kV substation to the Ballinlee Wind Farm site has 19 infrastructure crossings, these include pipes, culverts, bridges & cattle underpasses. Figure 2-4 shows the infrastructure crossings on the national, regional and local roads. Further information on the infrastructure crossings is provided in Table 2-1.

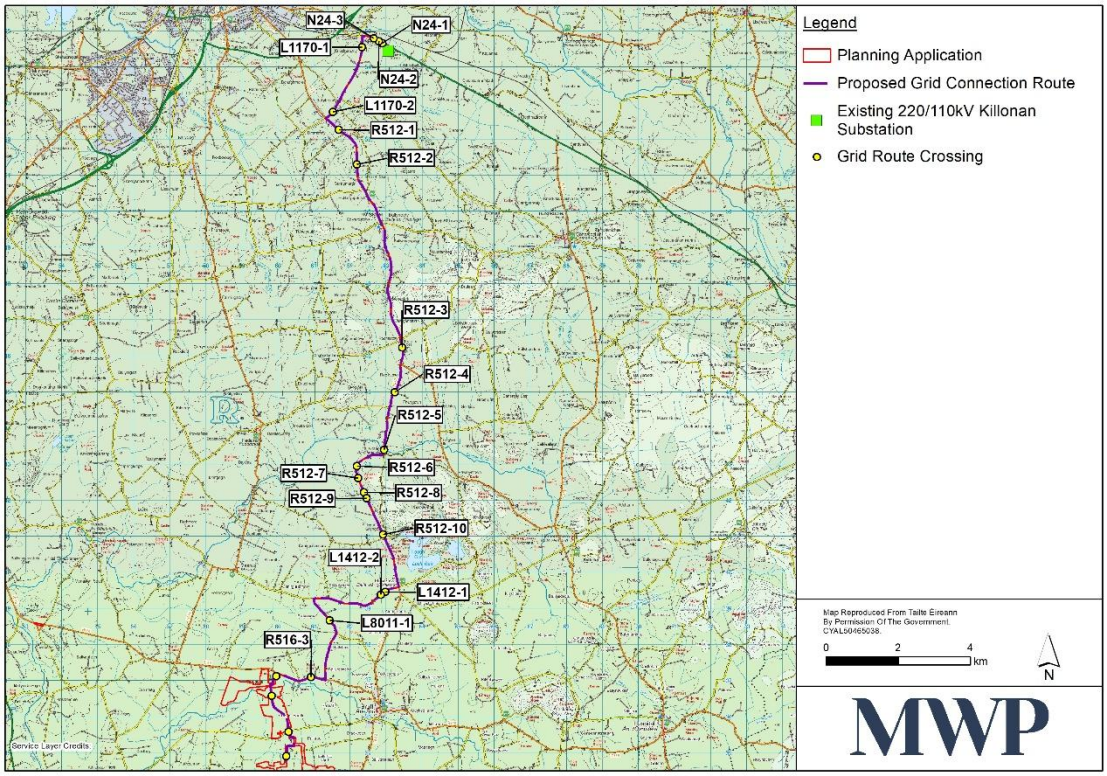


Figure 2-4: Map of infrastructure crossings along Grid Connection Route

Initially a desk study using Google Street View, Landdirect.ie mapping, EPA watercourse maps and other comparable resources were consulted to build up a location of interest database. The database compiles the locations of crossings between the grid route, structures and mapped watercourses. This database was used for the site visit to gather additional information at the locations of interest.

Multiple site visits were undertaken by qualified members of the MWP engineering team to filter and refine the locations of interest/watercourse crossing database. The span and cover of each underpass, bridge, culvert, pipe was noted. This information and the in-house experience of the MWP engineering team was used to provide an appropriate crossing solution for each location. Photographs of the watercourse from the site visit are included in Appendix 2.

The following technical guidance will be followed when designing the grid connection at watercourse crossing locations:

- The minimum vertical cover to power ducts is 950mm in accordance with EirGrid specifications, however in exceptional circumstances this can be reduced to 450mm for cable installations on bridge decks in agreement with EirGrid and ESB where other alternatives are not possible. This depth must be maintained below the carriageway surface level, above the deck support element—such as the keystone in masonry arch bridges.

- When sufficient cover is unavailable, trenchless technologies such as Horizontal Directional Drilling (HDD) offer an alternative for installing ducts beneath the length of the bridge or culvert.
- In cases where Special Areas of Conservation are located near watercourses, there exists a potential risk of contaminating these areas. Drilling beneath watercourses shall adhere to guidelines provided by Inland Fisheries Ireland. In all circumstances, consultation with inland fisheries Ireland (IFI) will be carried out to determine the most suitable crossing method.
- All works will be subject to an appropriate road opening licence (ROL) application being granted by the appropriate roads authority.

Table 2-1: MWP Inspection of Infrastructure Crossings

Crossing #	Crossing Description	Approx Cover from Crown/Soffit	Proposed Solution	Image
N24-1	1200mm Concrete Pipe	1.0m	HDD solution required at this crossing	
N24-2	1200mm Concrete Pipe	1.7m	HDD solution required at this crossing..	
N24-3	3.0m x 3.0m Box Culvert as Cattle Underpass	0.7m	HDD solution required at this location.	

Crossing #	Crossing Description	Approx Cover from Crown/Soffit	Proposed Solution	Image
L1170-1	300mm Concrete Pipe	0.60m	Typical Under Culvert Crossing.	
L1170-2	900mm Concrete Pipe	1.7m	Cables and communications ducts installed in flat formation above culvert in Accordance with ESB Detail or HDD under structure.	
R512-1	900mm Concrete Pipe	0.6m to 2.0m	Cables and communications ducts installed in flat formation above culvert in Accordance with ESB Detail subject to cover depth confirmation or HDD under structure.	
R512-2	300mm Stone Box Culvert	1.3m	Cables and communications ducts installed in flat formation above culvert in Accordance with ESB Detail or HDD solution under structure.	

Crossing #	Crossing Description	Approx Cover from Crown/Soffit	Proposed Solution	Image
R512-3	0.6m Stone Culvert	1.1m Approx	Cables and communications ducts installed in flat formation above culvert in Accordance with ESB Detail or HDD solution under structure.	
R512-4	900mm Stone Culvert	1.85m	Cables and communications ducts installed in flat formation above culvert in Accordance with ESB or HDD solution under structure.	
R512-5	Multi Span Masonry Bridge	N/A	Bespoke HDD Solution Required following consultation with local authority.	

Crossing #	Crossing Description	Approx Cover from Crown/Soffit	Proposed Solution	Image
R512-6	Cattle Underpass 2.4m X 2.4m Internal Dimensions	0.9m Approx	Typical Over Bridge Carriageway in Accordance with ESB Detail or HDD solution under structure.	
R512-7	Stone Culvert Internal Dimensions 0.25m H X 0.5m W	0.8m Approx	Typical Over Bridge Carriageway in Accordance with ESB Detail or HDD solution under structure.	
R512-8	Stone Culvert 300mm Dia Approx	1.85m Approx	Standard Trench over culvert in Accordance with ESB Detail or HDD solution under structure.	

Crossing #	Crossing Description	Approx Cover from Crown/Soffit	Proposed Solution	Image
R512-9	Small Stone Culvert 300mm Dia Approx	1.2m Approx	Cables and communications ducts installed in flat formation above culvert in Accordance with ESB Detail or HDD solution under structure.	
R512-10	0.5 x 0.5m Double Stone Culvert	1.55m	Cables and communications ducts installed in flat formation above culvert in Accordance with ESB Detail or HDD solution under structure.	
L1412-1	900mm Concrete Pipe	1.15m	Cables and communications ducts installed in flat formation above culvert in Accordance with ESB Detail or HDD solution under structure.	
L1412-2	Minor Stone Culvert Crossing	No Access	Typical Under Culvert Crossing	No Image due to poor access
L8011-1	300mm Twinwall Pipe	No Access	Typical Under Culvert Crossing	No Image due to poor access

Crossing #	Crossing Description	Approx Cover from Crown/Soffit	Proposed Solution	Image
R516-3	0.5m Stone Culvert	0.65m	Typical HDD Under Structure	

2.5 Utility Services

All relevant bodies—i.e., ESB Networks, EirGrid, Gas Networks Ireland, Eir, Uisce Éireann, Limerick City & County Council, etc.—were consulted, and drawings for all existing underground services along the grid connection route were obtained. Communications with services providers and the files received are included in **Appendix 3.**

A desktop survey for underground services encountered was initially completed to determine whether adequate cover was available for ducting to pass over these services.

2.5.1 Electrical Supply Board (ESB)

The Electricity Supply Board (ESB) was consulted by MWP to ensure that all known and mapped ESB infrastructure was identified prior to the development of the grid connection route design. In response, the ESB provided a package of PDF maps detailing their infrastructure. These were subsequently converted into .dwg files by MWP to support accurate integration with the overall design. **Figure 2-5** is an extract from a PDF received.

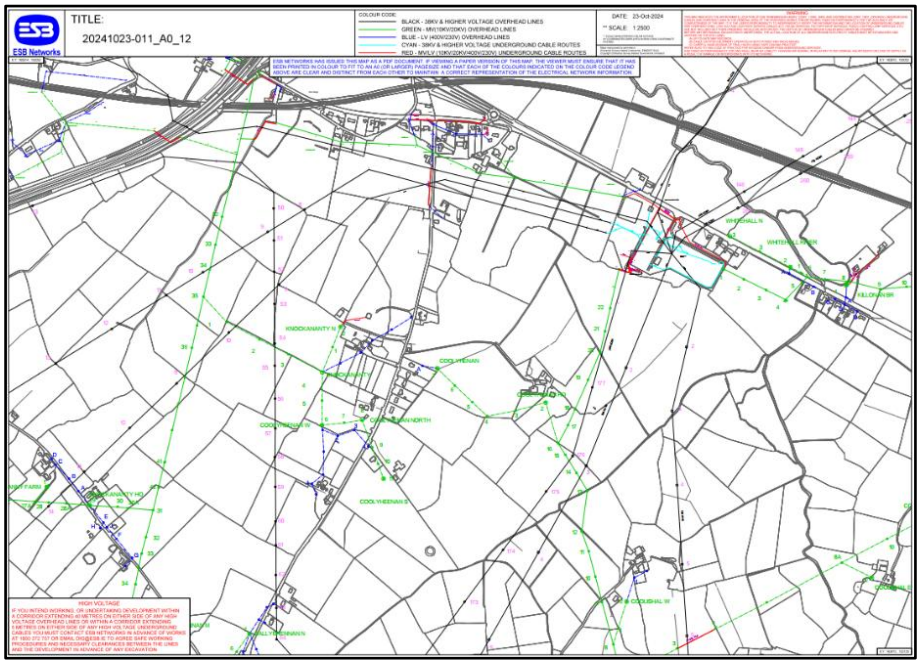


Figure 2-5: Extract from ESB PDF

EirGrid-CDS-GFS-00-001-R0 110 kV, 220 kV and 400 kV Underground Cable Functional Specification General Requirements and ESB-DOC-090217-CMY Company Standard - 38kV MV & LV Civil & Ducting Standard Voltage cable ducts require a minimum separation distance of 300mm from any 3rd party service and 600mm from High Pressure / explosive 3rd Party. Refer to planning drawings **22635-MWP-00-00-DR-C-5021 to 22635-MWP-00-00-DR-C-5050** for information on the grid connection route and existing ESB services.

2.5.2 Gas Networks Ireland (GNI)

A request was submitted to Gas Networks Ireland (GNI) for all available mapping of gas mains along the full extent of the grid connection route. In response, GNI provided a package of PDF maps detailing their infrastructure. These were subsequently converted into .dwg files by MWP to support accurate integration with the overall design. The proposed grid connection route intersects with a GNI transmission pipeline and distribution pipeline. Figure 2-6 is an extract from a PDF received.

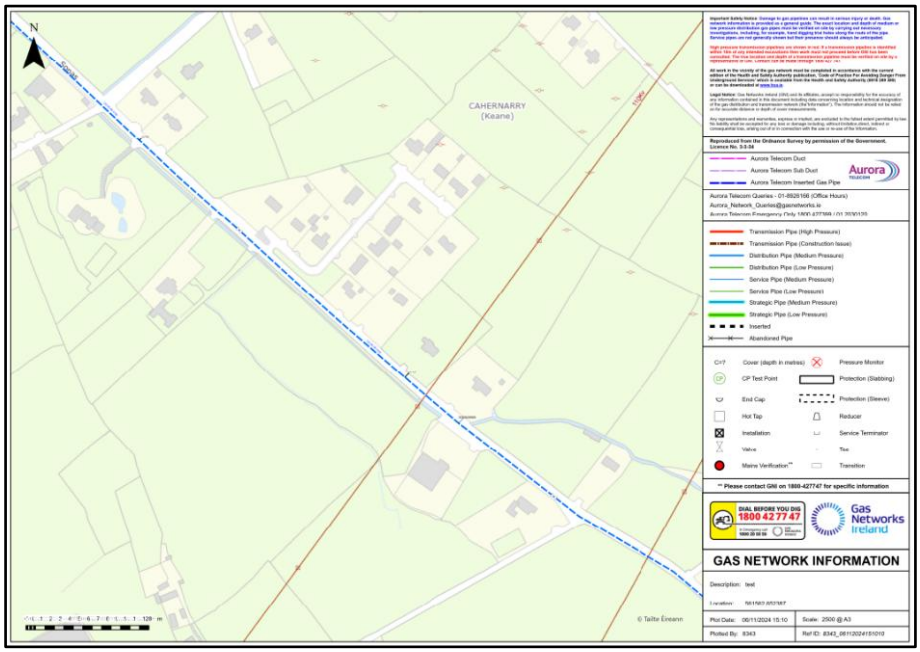


Figure 2-6: Extract from GNI PDF

GNI-Code of Practice for Working in the Vicinity of the Transmission Network 2021 states any new service running parallel will require a minimum separation distance of 1000mm from High Pressure-Transmission line-7 bar and above and when crossing perpendicular 600mm separation, 300mm for Medium Pressure-Distribution line-100 mbar to 4 bar and 150mm for Low Pressure-Distribution line-100 mbar and below. A high-pressure transmission system (7bar to 85bar) has been identified during the utility search. GNI must be consulted before work proceeds near this high-pressure transmission system. Refer to planning drawings 22635-MWP-00-00-DR-C-5021 to 22635-MWP-00-00-DR-C-5050 and 22635-MWP-00-00-DR-C-5442 for information on the grid connection route, existing GNI services and pipeline crossing details.

2.5.3 Uisce Éireann (UE)

A request was submitted to Uisce Éireann seeking information on all existing water infrastructure in the area potentially interacting with the grid connection route. In response, Uisce Éireann provided a package of PDF maps detailing the locations of their known assets, including potable water, wastewater, surface water, and associated infrastructure. This data was then transferred into .dwg files MWP to ensure a clear and accurate picture of how the grid route interacts with existing water infrastructure. This process identified any potential design challenges. Figure 2-7 is an extract from a PDF received.

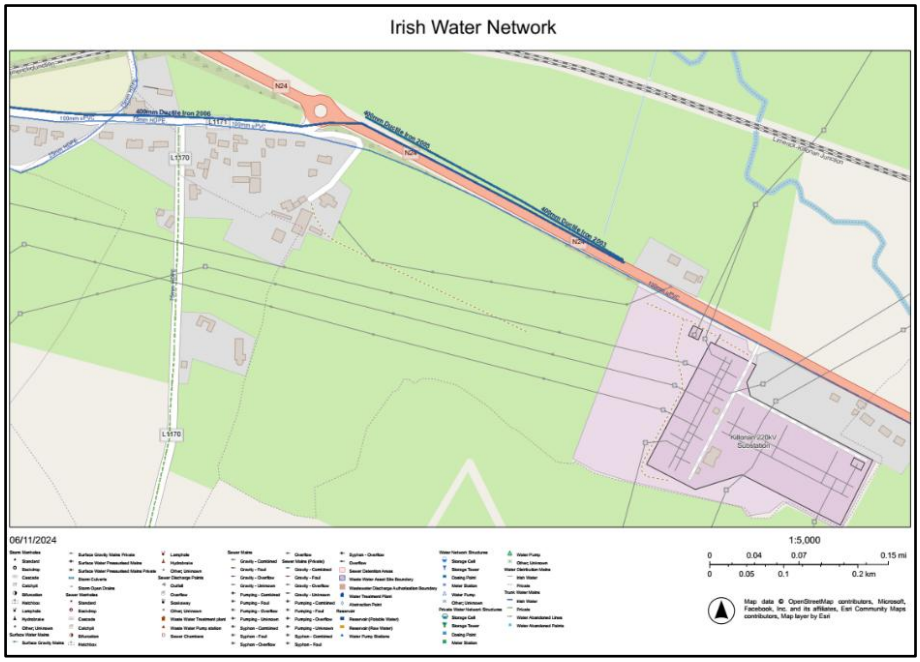


Figure 2-7: Extract from Uisce Éireann PDF

IW-CDS-5020-01-2020 states that any new service requires a minimum separation distance of 1000mm from a watermain between 200-250mm diameter, 2000mm for a watermain between 300-375mm diameter and 5000mm for a watermain between 400-450mm diameter. Consultation with Uisce Éireann is advised for separation distances from watermains above 450mm. Refer to planning drawings 22635-MWP-00-00-DR-C-5021 to 22635-MWP-00-00-DR-C-5050 for information on the grid connection route and existing UÉ services.

2.5.4 Eir Telecommunications (EIR)

As with the other services, a request was submitted by MWP to Eir for existing mapping of their telecommunications infrastructure along the proposed grid connection route. In response, Eir provided a package of PDF maps outlining the locations of their known assets, including overhead lines, underground cables, and associated infrastructure. This information was subsequently converted into .dwg files by MWP team to allow for detailed analysis. Figure 2-8 is an extract from a PDF received.

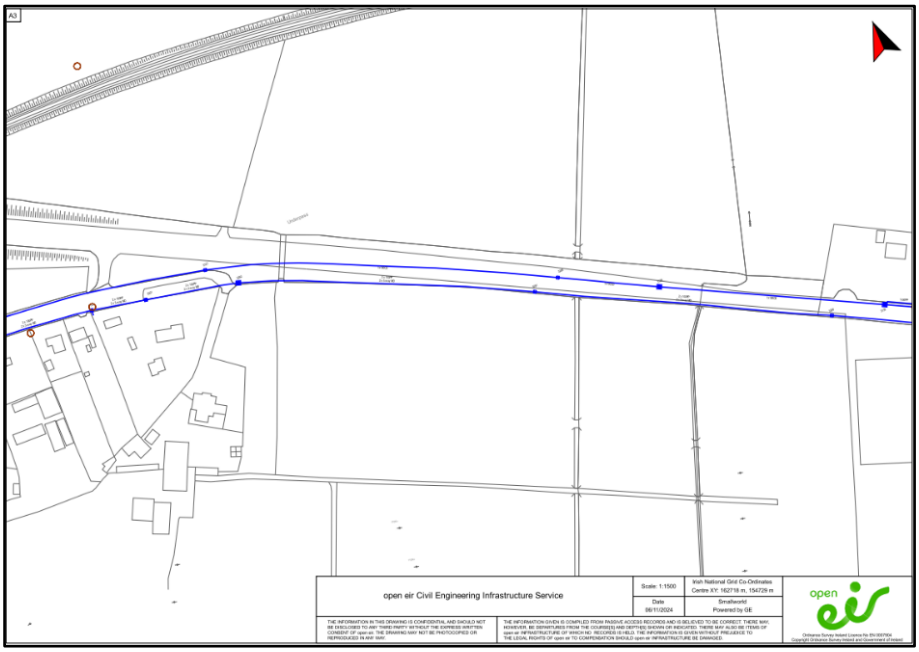


Figure 2-8: Extract from Eir PDF

EIR-Guidelines for customers when laying ducting for telecom networks states a minimum separation distance of 300mm is required from any underground Eir service. Refer to planning drawings 22635-MWP-00-00-DR-C-5021 to 22635-MWP-00-00-DR-C-5050 for information on the grid connection route and existing ESB services.

2.5.5 Other Utilities

Requests were also made to BT Ireland, ENET and Virgin Media to identify the location of their known assets/infrastructure. All responded that according to their records they have no infrastructure in the area.

2.6 Archaeology

An initial desktop study to identify archaeological constraints along the proposed grid connection route was carried out using the national monument service (NHS) and national built heritage service (NBHS) online GIS maps. The information gathered informed the initial design of the grid connection route. Figure 2-9 is a map with information from the (NHS) & (NBHS) online GIS map.

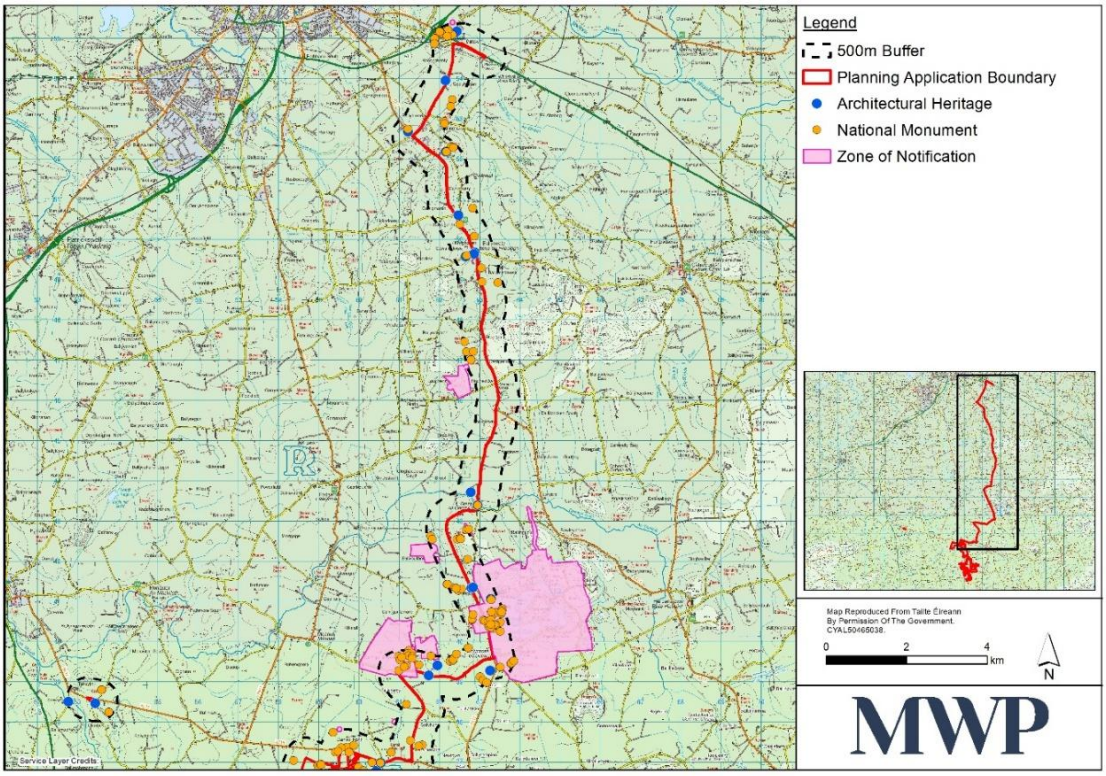


Figure 2-9: Map of NIAH features along proposed Grid Connection Route

In October 2024 Laurence Dunne Archaeology provided input to the grid route assessment and initial design. An Archaeological meeting was held between MWP, Lar Dunne Archaeology and *Ballinlee Green Energy Ltd*. to discuss any potential archaeological constraints, no constraints were identified. See Volume II Chapter 14 Cultural Heritage of this EIAR for further archaeological information.

2.7 Hydrology

An initial desktop study to identify hydrological constraints along the proposed grid connection route was carried out using the Environmental Protection Agency (EPA) online GIS maps. This information was subsequently converted into .dwg files by MWP for detailed analysis which informed the initial design of the grid connection route. **Figure 2-10** is a map with information from EPA online GIS map. Further information on the hydrology is provided in **Volume II Chapter 09** Water of this EIAR.

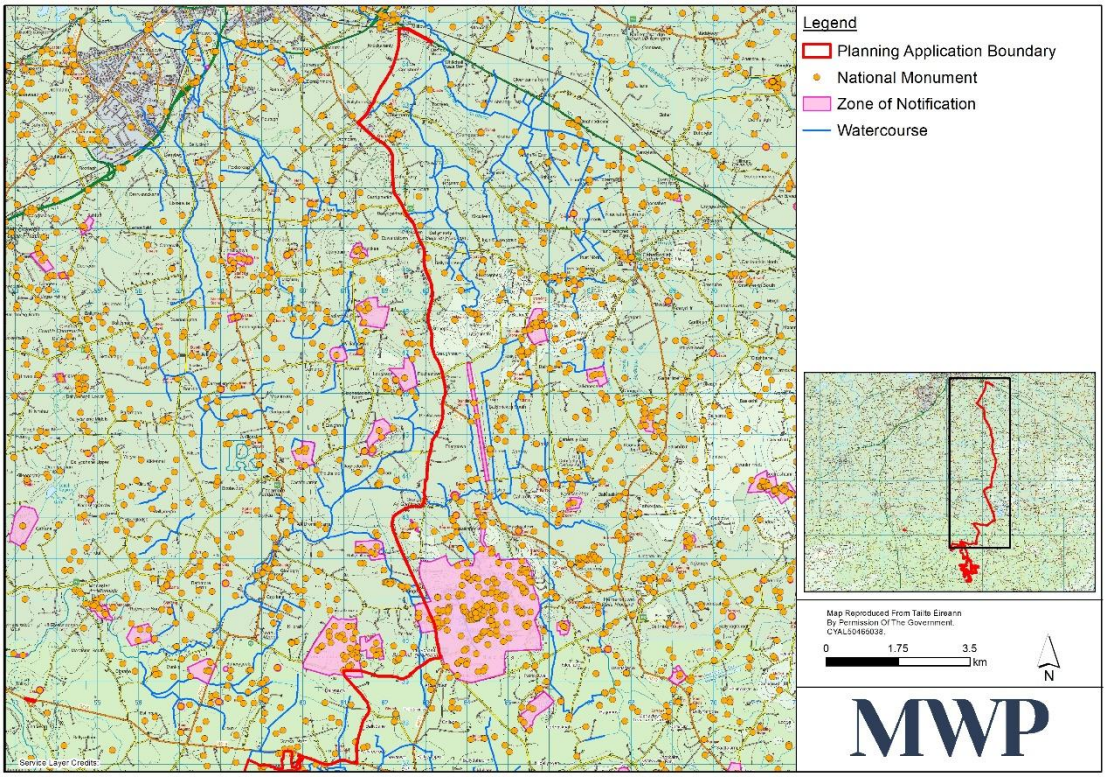


Figure 2-10: Map of EPA features along proposed Grid Connection Route

2.8 Ecology

Similar to the above sections the national parks and wildlife service (NPWS) and national biodiversity data centre online GIS maps, see **Figure 2-11** and **Figure 2-12**, were used to gather information on any ecological constraints along the proposed grid route. Ecologists provided a constraints assessment at the initial design phase. Further information on ecology is provided in **Volume II Chapter 06** Biodiversity of this EIAR.

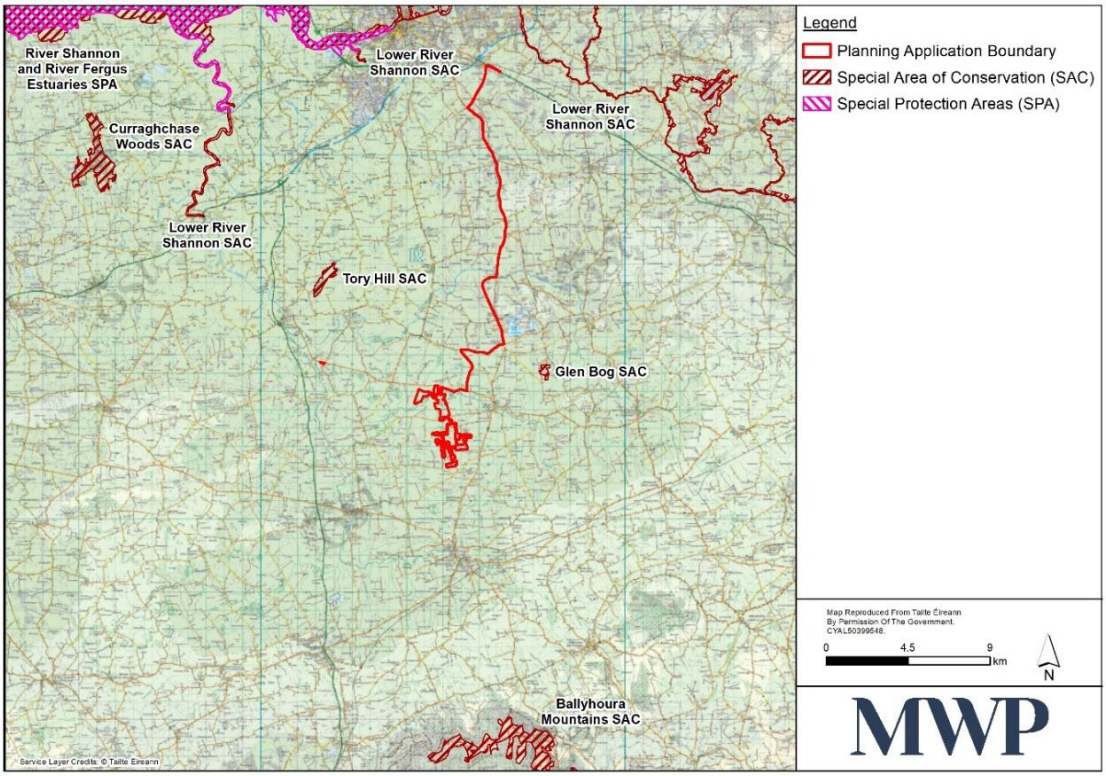


Figure 2-11: Map of SAC/SPA areas along proposed Grid Connection Route

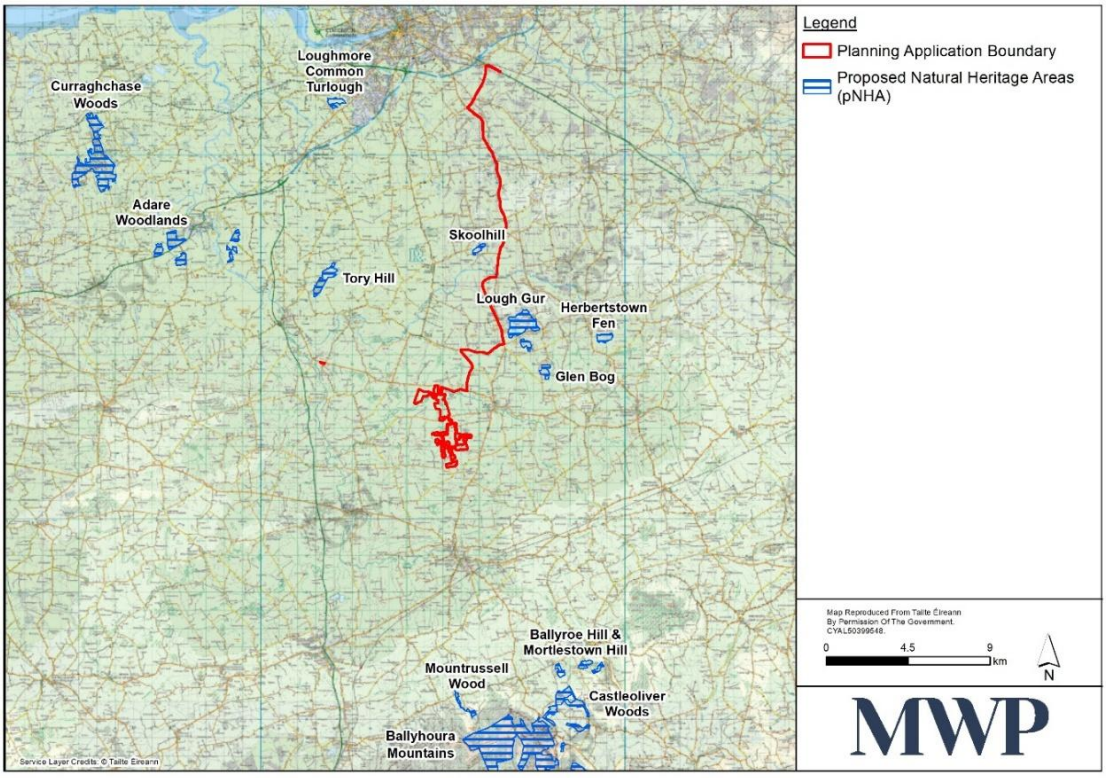


Figure 2-12: Map of Heritage areas along proposed Grid Connection Route

2.9 Geology

An initial desktop study was performed by the grid route team in conjunction with MWP's Geotechnical engineers using the Geological Survey Ireland (GSI)and Geohive Online maps. Field surveys, LiDAR data provided by the client and site visits all assisted. See **Figure 2-13** and **Figure 2-14.**

The grid connection route will be entirely within the existing road carriageway in topographical terms the route is relatively flat, and the lithology of the underlying rock is primarily limestone. Refer to **Volume II Chapter 08** Land and Soils of this EIAR for further geological information.

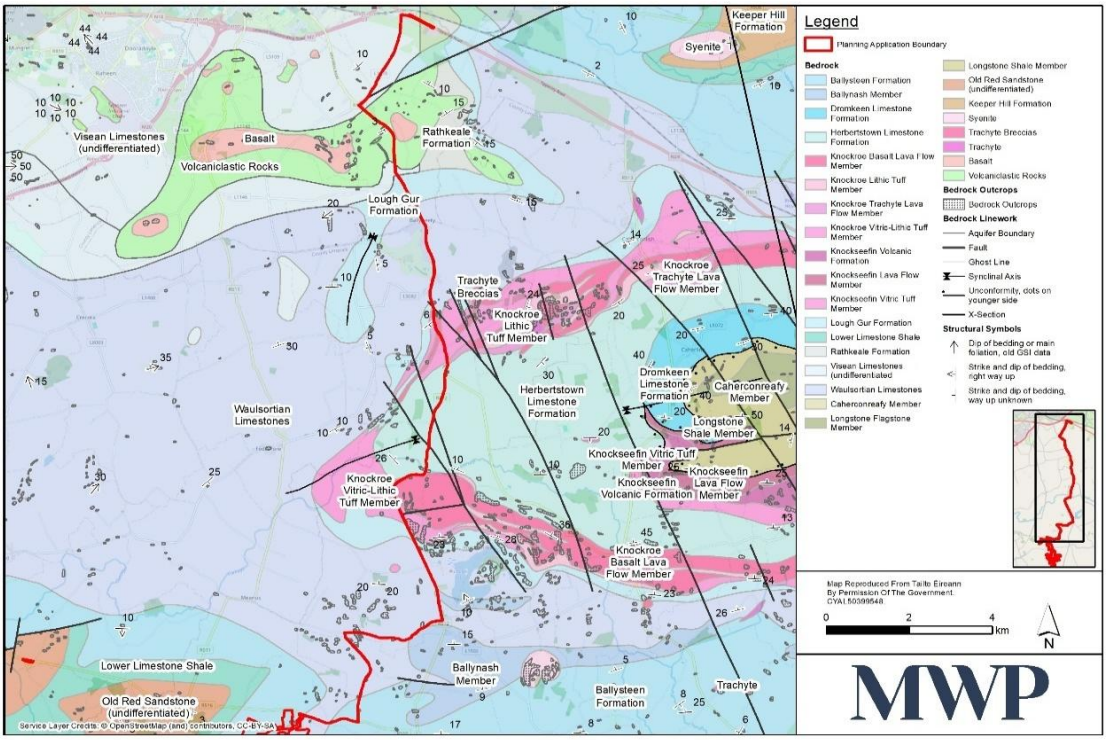


Figure 2-13: Map of Geological features along proposed Grid Connection Route

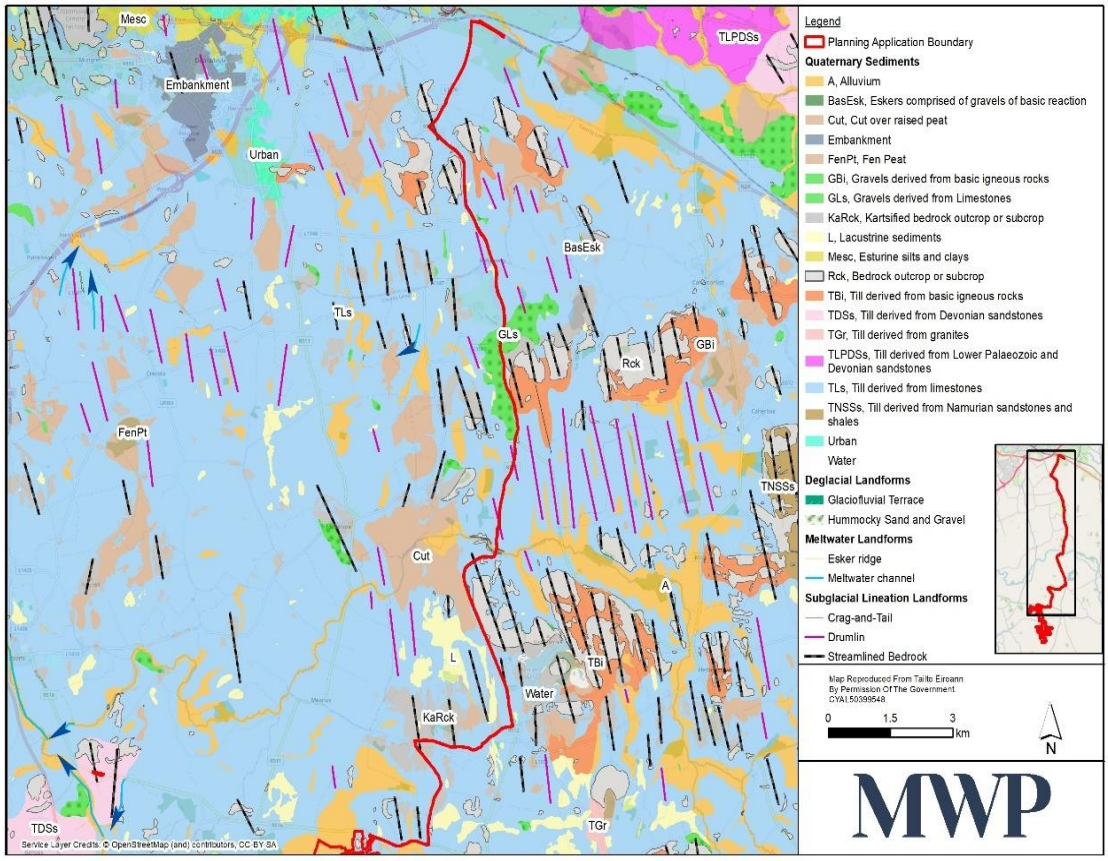


Figure 2-14: Map of Quaternary soils along proposed Grid Connection Route

3. Grid Connection Route Design

3.1 Initial Design

The grid connection route was selected following an assessment of a number of potential options. Further information on the assessment can be found on the grid route options in **Volume II Chapter 03** Consideration of Alternatives of this EIAR. The constraints outlined in **Section 2** and OSI map of the grid connection route were imported in AutoCAD for the initial grid route design. The design of the alignment followed the standard set out in EirGrid-CDS-HFS-01-001-R2 110 kV Underground Cable Functional Specification Route Selection, Design and As Built Records. Following the alignment the following grid route elements were designed:

3.1.1 Trench Detail

EirGrid-DS-GTS-01-001-R0 HV Underground Cable Technical Schedules provided the information on the typical duct formation and trench detail requirements for a 110kV cable for the grid connection route. **Plate 3-1** is an extract from the EirGrid document showing the standard trench detail for a trefoil formation 110kV cable.

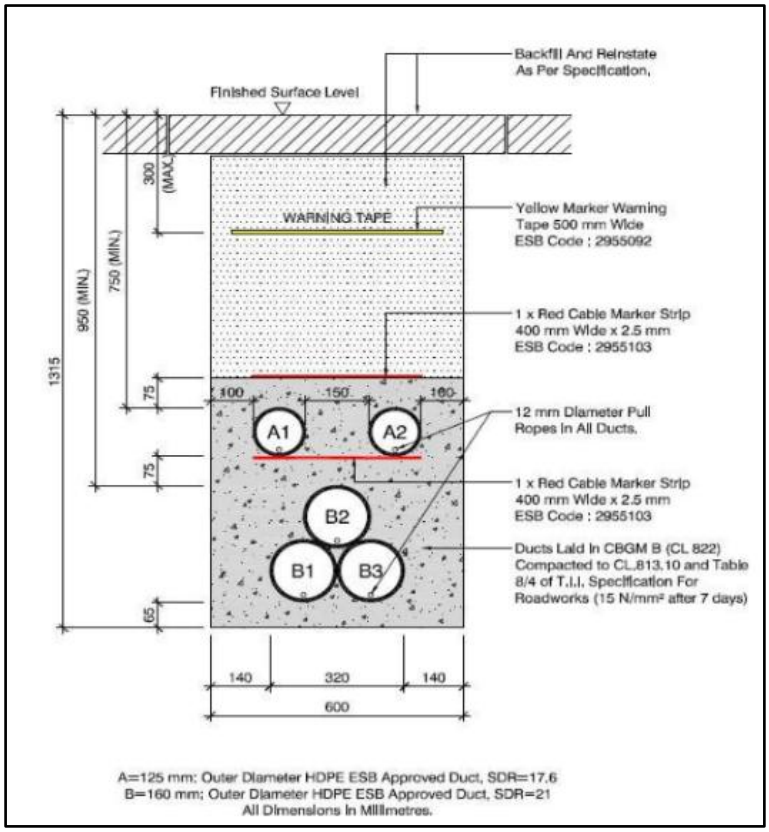


Plate 3-1: EirGrid extract of a 110kV trefoil duct formation trench detail

3.1.2 Joint Bay Detail

EirGrid-CDS-HFS-03-001-R2 110 kV Underground Cable Functional Specification Civil Works provided the information on the joint bay requirements for a 110kV cable for the grid connection route. Plate 3-2 is an extract from EirGrid XDC-CBL-STND-H-012 showing the joint bay and communication chambers for a 110kV cable.

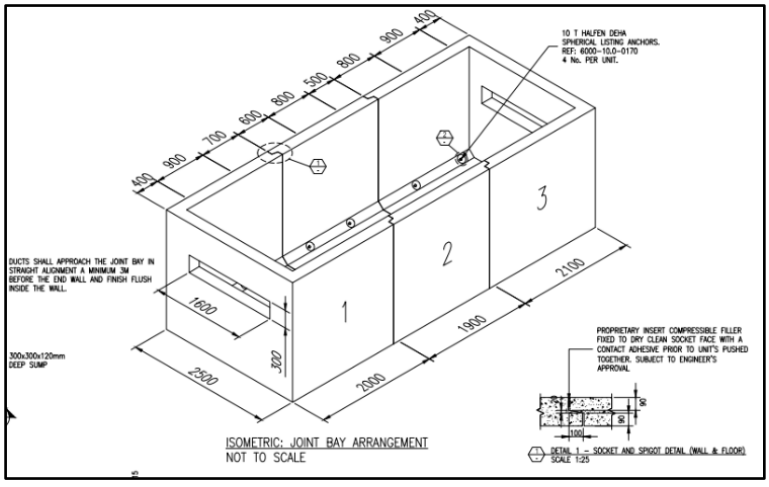


Plate 3-2: EirGrid extract of a standard 110kV joint bay detail

3.1.3 Crossing Details

Table 3-1 details the observed watercourses crossing the grid connection route and also the potential crossing methods. EirGrid 110kV cable standard details, provided information on flat duct formation details for below/above service crossings, duct formation details for a bridge crossing and duct formation for crossing below a watercourse. The details are shown in Plate 3-3 to Plate 3-6 which are extracts from EirGrid drawings XDC-CBL-STND-H001 to 006. Where it is proposed to use a Horizontal Directional Drill (HDD) crossing detail must be submitted to EirGrid and the local authority for approval. The horizontal directional drill details, such as angle of entry/exit and maximum depth, will be completed at detailed design stage and the design of the HDD drill shot will be in accordance with engineering best practice . An example drawing illustrating a HDD watercourse crossing is shown in Plate 3-7.

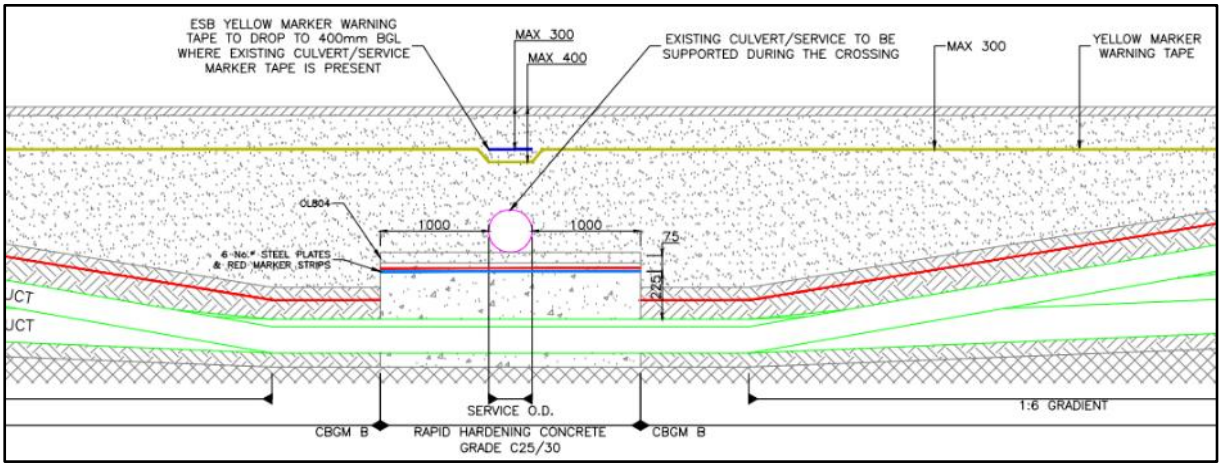


Plate 3-3: Flat formation detail for crossing below services extracted from EirGrid standard detail drawings

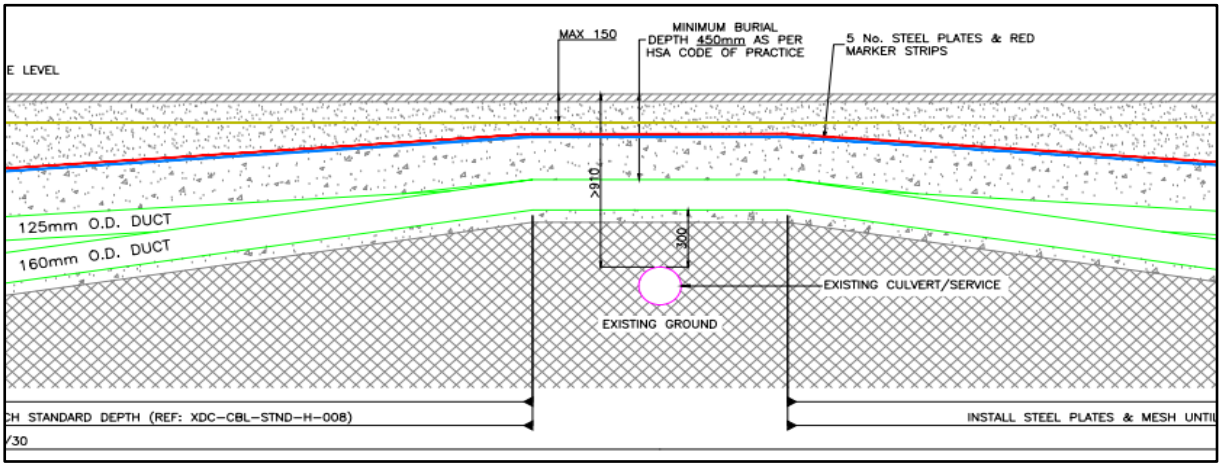


Plate 3-4: Flat formation detail for crossing above services extracted from EirGrid standard detail drawings

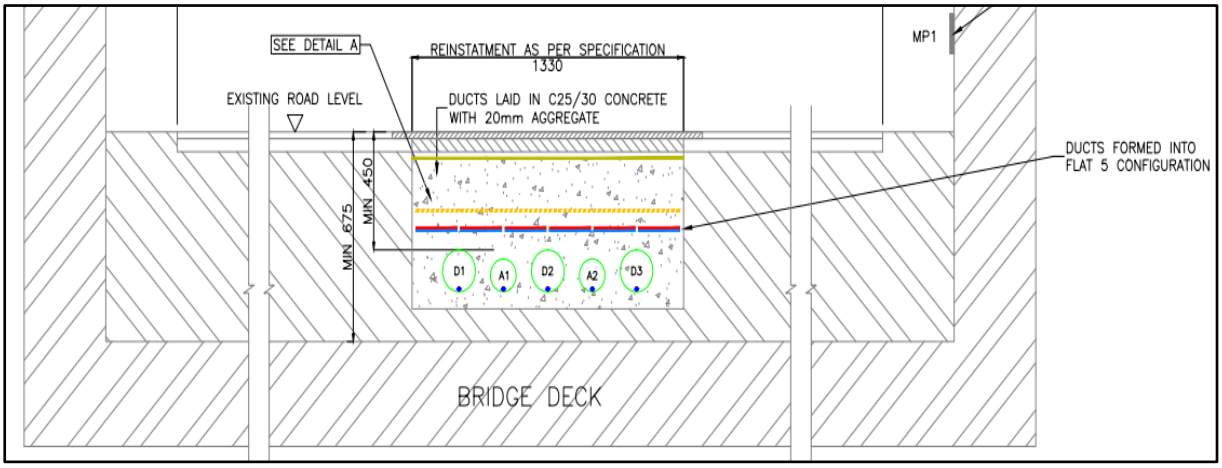


Plate 3-5: Formation detail for bridge crossing extracted from EirGrid standard detail drawings

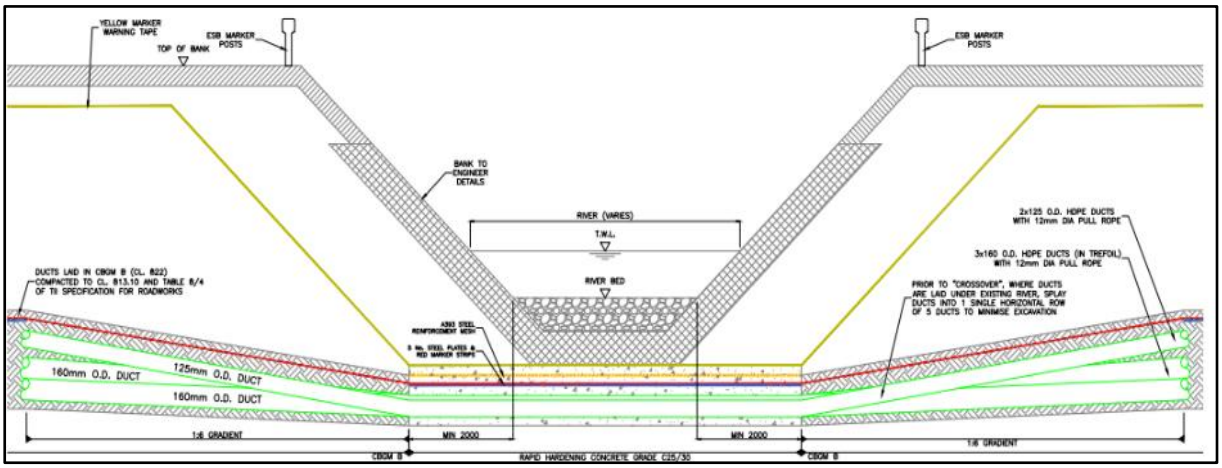


Plate 3-6: Formation detail for crossing below watercourse extracted from EirGrid standard detail drawings

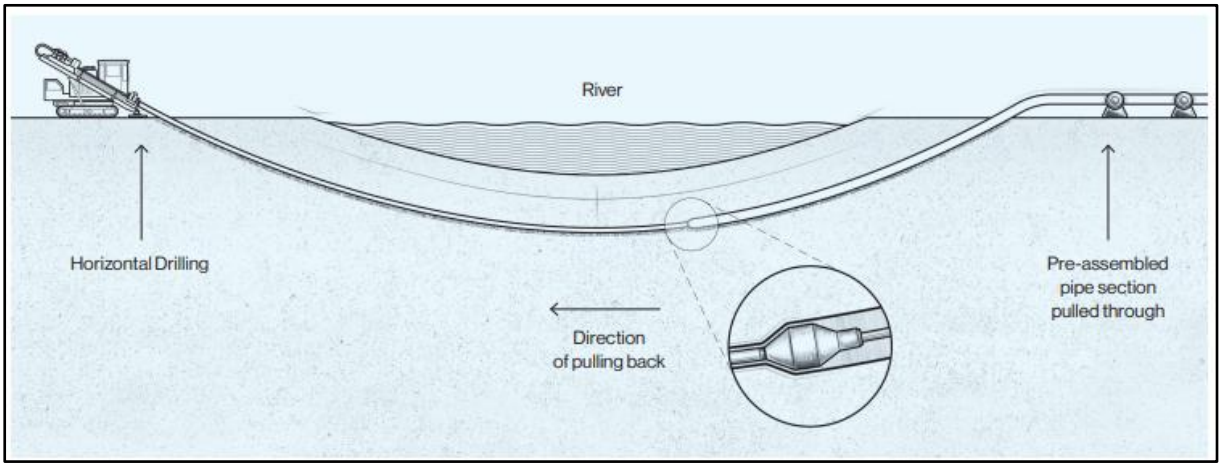


Plate 3-7: Example of a HDD crossing detail below a watercourse

3.2 Preliminary Design

The completion of the initial design was followed by an internal review of the grid connection route to identify any additional constraints. Joint bay locations were reviewed regarding spacings, location to 3rd party lands, working space for cable pulling and existing services. The alignment was reviewed regarding HDD launch and receive pits location, existing services and 3rd party lands. Meetings with LCCC in November 2024 and April 2025 also provided information on the grid route alignment regarding reinstatement, public notifications and service crossings. The feedback from LCCC and the results from the internal review confirmed that additional site investigations were required, a topographical (Topo) survey and ground penetrating radar (GPR) survey were chosen as they are the least intrusive and will provide sufficient information for the planning application preliminary design. Constraints were mapped and highlighted on an AutoCAD drawing, which was used to procure a 3rd party contractor to complete the works.

3.2.1 Ground Penetrating Radar Survey

Several utility areas of congestion were identified where additional information was required to support the grid route design, a specialist GPR contractor was engaged. GPR works by emitting radio waves into the ground and capturing the echoes that reflect when they encounter subsurface features such as pipes, rock layers, or voids. This method allowed for the identification of hidden or undocumented utility services. A significant number of locations were identified where GPR was deployed to ensure all unknown, unrecorded utilities were detected and the details (location, depth, diameter) of known services were verified. Additionally, the GPR was beneficial as utility maps are typically not accurate enough for design purpose and this helped verify the existing services on the utility maps. GPR report is included in Appendix 4. Finally, all the above was accounted for in the preliminary design.

3.2.2 Topographical Survey

A Topo survey was also required at the areas of congestion identified above and in addition all watercourse crossings along the grid connection route were surveyed. This method allowed for the identification of the watercourse crossings invert/obvert levels and the road level at the crossing location. This information informed the crossing methods shown below in Table 3-1. Additionally, the Topo survey identified the street furniture and the boundary between public and private land which aided in the alignment of the grid connection route.

3.2.3 Grid Connection Route Design

The initial grid route design progressed to the preliminary design utilising the information from the site investigation (GPR and Topo survey), the changes to the grid connection route are detailed below.

Further information on the construction methods and techniques for the grid connection route infrastructure is located in the Construction Environmental Management Plan (EIAR Volume III, Appendix 2A).

Although the surface water management plan is primarily focused on the operational and construction of the wind farm, the principles in Section 2 of the Surface Water Management Plan (EIAR Volume III, Appendix 2E) are applicable to the surface water management of the grid connection route during construction stage.

Finally, the construction waste from the grid connection route are covered in the Resource Waste Management Plan (EIAR Volume III, Appendix 2B).

3.2.3.1 Alignment

The total grid connection route is 27.6km of which 0.7km is along the N24 corridor/curtilage and 3.1km is along the wind farm internal access tracks, the remaining sections are within the carriageway of the public road consisting of the following:

- 2.5km along the L1170
- 13.4km along the R512
- 2.3km along the L1412
- 4.2km along the L8012
- 1.4km along the R512
- 3.1km is within access tracks of the wind farm site.

The alignment intersects or interacts with 5 (five) key junctions; the key junctions are a change in the alignment/crossroads/major road and are as follows:

- N24 roundabout
- R512/L1170 junction
- R512/L1147 crossroad
- R512/L1412 junction
- R516/L8012 junction

Further information on the alignment of the grid connection can be found in plannings drawings 22635-MWP-00-00-DR-C-5021 to 22635-MWP-00-00-DR-C-5050. Post planning, as part of detailed design, further site investigations and consultation with relevant authorities (UE, GNI, TII, LCCC etc.) utility providers, TII, LCCC will be required.

3.2.3.2 Trench

The typical trefoil duct formation, approximate depth 1.335m and width 0.600m, will predominantly be used for the grid connection route. In other instances, the flat duct formation, approximate depth 1.175m and width 0.825m, may be required. The presence of peat, although not identified on the GSI map in Section 2.9, may impact the design and construction of the trench detail. Further information on the trench details for the grid connection can be found in plannings drawing 22635-MWP-00-00-DR-C-5431. The following points will need to be addressed post planning as part of detailed design.

1. Excavation for either of the trench detail will be adjacent to existing services. Care needs to be taken when working in proximity to existing services.
2. In the presence of poor subsoils, where the risk of engulfment and subsidence is increased, trench shields will be required. Trench shields require additional space, the width of the trench shield and working space.

3.2.3.3 Joint Bay

110 kV joint bays typically have a width of 2.0m and a length of 6.0m, however additional working space is required to allow cable pulling. It's common to allow 12.0m at either end of the joint bay thus increasing the total length to 30.0m.

The joint bays are located at various points along the grid connection route, the spacings are between 500 - 1,000 metres depending on gradients, third party land, bends and constraints mentioned in Section 2. The grid connection route has a total of 36 joint bays. Further information on the joint bay details and their chambers/boxes for the grid connection can be found in plannings drawing 22635-MWP-00-00-DR-C-5434. The following points will need to be addressed post planning as part of detailed design.

1. Like the above sections the location of the joint is influenced by the high number of existing services. In some instances, the existing service may need to be relocated.
2. Excavation for the joint bay will be in close proximity to existing services and care shall be taken to protect existing services.
3. The additional 24.0m of working space for pulling cable may require relocation of an existing service
4. Location of Joint bays in areas without Topo utilised the OSI map/tile, positions may need to be adjusted to facilitate existing services.

3.2.3.4 Crossings

Utilising the GIS information from the utility providers, EPA watercourse information and the site investigation surveys (GPR & Topo) it was identified that the grid connection route has between 80-120 crossings for the various utilities, services and constraints, four (4) crossing methods and duct formations are required. The watercourse crossing details and the crossing methods are detailed in Section 3.1.3. One (1) major crossing require a HDD solution. Further information on the joint bay details and their chambers/boxes for the grid connection can be found in plannings drawings 22635-MWP-00-00-DR-C-5437 to 22635-MWP-00-00-DR-C-5440. The following points will need to be addressed post planning as part of detailed design.

1. Details of the HDD solution for the N24 will require consultation with TII/LCCC.
2. As with the points above there is a risk associated with crossing over/under existing services and care should be taken to protect the existing services.
3. Further site investigation, silt trenching, may expose insufficient cover available for the crossing method and an alternative solution is required.
4. The location of launch & receive pits for the HDD crossings are essential for the HDD alignment. The drill angle and material bending angle need sufficient space to get down to the required depth, level out at the crossing point and get up to the receive pit.
5. A transition chamber if required where the cable installation method changes, the transition chamber may require relocate of existing service.
6. Where minimum separation distances are not achievable consultation will be required with the existing service provider.

Table 3-1: MWP inspection & Precision UM survey of Infrastructure Crossings

Ballinlee WF Grid Connection Route Report								
Killonan Station to Site via Ballineety								
Crossing Number	Description	Invert Level	Obvert Level	Road Level	Cover Depth	Preliminary Solution	Complex	MWP notes
N24-1	2.0 x 1.0m Box Culvert as cover for pipe	21.635	22.835	24.090	1.255	HDD proposed off the N24 carriageway but within the curtilage of the N24. Along grass/variegated area on south side of N24 carriageway	Y	Consultation with TII and LCCC required to confirm position and alignment of HDD
N24-2	2.0 x 1.0m Box Culvert as cover for pipe	22.720	23.920	25.440	1.520	HDD proposed off the N24 carriageway but within the curtilage of the N24. Along grass/variegated area south of N24 carriageway	Y	Consultation with TII and LCCC required to confirm position and alignment of HDD
N24-3	4.0 x 4.0m Box Culvert as Cattle Underpass	23.650	27.850	28.250	0.400	HDD proposed off the N24 carriageway but within the curtilage of the N24. Along grass/variegated area south of N24 carriageway	Y	Consultation with TII and LCCC required to confirm position and alignment of HDD

Ballinlee WF Grid Connection Route Report								
Killonan Station to Site via Ballineety								
Crossing Number	Description	Invert Level	Obvert Level	Road Level	Cover Depth	Preliminary Solution	Complex	MWP notes
L1170-1	225mm Dia Concrete Pipe	22.540	22.790	23.000	0.210	Flat deck trench proposed under this crossing	N	Consultation with LCCC required to confirm solution or will HDD be required
L1170-2	1000mm Dia Concrete Culvert	34.460	35.510	36.485	0.975	Flat deck trench proposed over this crossing	N	Further site investigations required, slit trenching, as minimum vertical cover to Power Ducts in accordance with the relevant EirGrid specification is 950mm
R512-1	900mm Dia Concrete Culvert			42.760		Assumed standard trench detail for this crossing	N	Dense vegetation, unable to locate and survey culvert. Further site investigations required, slit trenching.
R512-2	500 x 400mm Stone Box Culvert	50.110	50.610	52.200	1.590	Standard trench proposed at this crossing	N	

Ballinlee WF Grid Connection Route Report								
Killonan Station to Site via Ballineety								
Crossing Number	Description	Invert Level	Obvert Level	Road Level	Cover Depth	Preliminary Solution	Complex	MWP notes
R512-3	500 x 470mm Stone Box Culvert	86.378	86.948	88.720	1.773	Standard trench proposed at this crossing	N	
R512-4	600mm Dia Concrete Culvert	69.750	70.400	71.680	1.280	Standard trench proposed at this crossing	N	
R512-5	Multi Span Masonry Bridge		66.810	69.620	2.810	HDD proposed under watercourse as bridge is a listed structure on NWBS	Y	Consultation with LCCC, EPA, IFI and other relevant authorises required to confirm position and alignment of HDD
R512-6	2.4 x 2.4m Box Culvert as Cattle Underpass	64.250	66.850	67.600	0.750	HDD proposed at this crossing (Flat deck trench potentially viable)	Y	As minimum vertical cover to Power Ducts in accordance with the relevant EirGrid specification is 950mm, consultation with EirGrid is required to seek a deviation from standard to allow a flat deck formation

Ballinlee WF Grid Connection Route Report								
Killonan Station to Site via Ballineety								
Crossing Number	Description	Invert Level	Obvert Level	Road Level	Cover Depth	Preliminary Solution	Complex	MWP notes
R512-7	500 x 250mm Stone Box Culvert	59.895	60.245	61.550	1.305	Standard trench proposed at this crossing	N	Dense vegetation, unable to survey culvert IL & OL. US and DS banks of watercourse surveyed. Further site investigations required, slit trenching.
R512-8	300mm Stone Box Culvert (estimated)	60.267	60.667	61.220	0.553	Flat deck trench proposed under this crossing	N	Dense vegetation, unable to locate and survey culvert. US and DS banks of watercourse surveyed. Further site investigations required, slit trenching.
R512-9	300mm Stone Box Culvert (estimated)	59.340	59.740	62.270	2.530	Assumed standard trench detail for this crossing	N	Dense vegetation, only able to survey IL & OL of culvert inlet. unable to locate and survey culvert outlet. Further site investigations required, slit trenching.
R512-10	500 x 450mm Double Stone Box Culvert	68.893	69.443	71.410	1.968	Standard trench proposed at this crossing	N	Dense vegetation, unable to survey culvert IL & OL. US and DS banks of watercourse surveyed. Further site investigations required, slit trenching.

Ballinlee WF Grid Connection Route Report								
Killonan Station to Site via Ballineety								
Crossing Number	Description	Invert Level	Obvert Level	Road Level	Cover Depth	Preliminary Solution	Complex	MWP notes
L1412-1	900mm Dia. Concrete Pipe			69.250		Assumed standard trench detail for this crossing	N	Dense vegetation, unable to locate and survey culvert. Further site investigations required, slit trenching.
L1412-2	800mm Stone Box Culvert (estimated)	67.310	68.310	69.600	1.290	Standard trench proposed at this crossing	N	
L8011-1	300mm Dia. Twinwall Pipe	65.630	65.955	66.340	0.385	Flat deck trench proposed under this crossing	N	Consultation with LCCC required to confirm solution or will HDD be required
R516-3	460 x 580mm Stone Box Culvert	54.400	55.080	55.700	0.620	Flat deck trench proposed under this crossing	N	Dense vegetation, unable to survey culvert IL & OL. US and DS banks of watercourse surveyed. Consultation with LCCC required to confirm solution or will HDD be required

4. Conclusion

During the preliminary design stage of the Ballinlee Wind Farm grid connection route, MWP drew on its extensive experience from similar engineering projects. The team liaised with the local authority, consulted all known utility providers to identify existing infrastructure, and underlying geological conditions, areas of environmental conservation, and sites of archaeological significance were investigated to further inform route selection. In addition, MWP engaged an independent contractor, Precision UM, to complete site investigations, a topographical and ground penetrating radar surveys to ensure a comprehensive and informed design could be developed.

5. Recommendation

A grid route design suitable for planning purposes has been developed and discussed in this report. The preliminary design has considered road types, route distance, existing utilities, existing watercourse, crossings points & methods and more constraints that are listed above in the report. The preliminary design ensures a technically feasible and environmentally acceptable route is put forward in the planning process. A detailed design of the grid route shall be developed to confirm the alignment, joint bay locations and watercourse and service crossing methods prior to construction. Ongoing liaison with TII, Limerick City and County Council, Inland Fishers Ireland, Environmental Protection Agency, utility providers and other authorities along the grid route will help ensure minimal disruption to road users, local residents, disruption to services and any areas of ecological, archaeological, or heritage significance.

Appendix 2D

Appendix 1 Grid Connection Route Drawings

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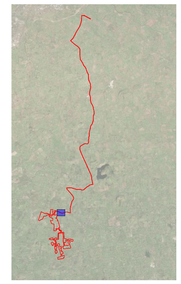
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LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

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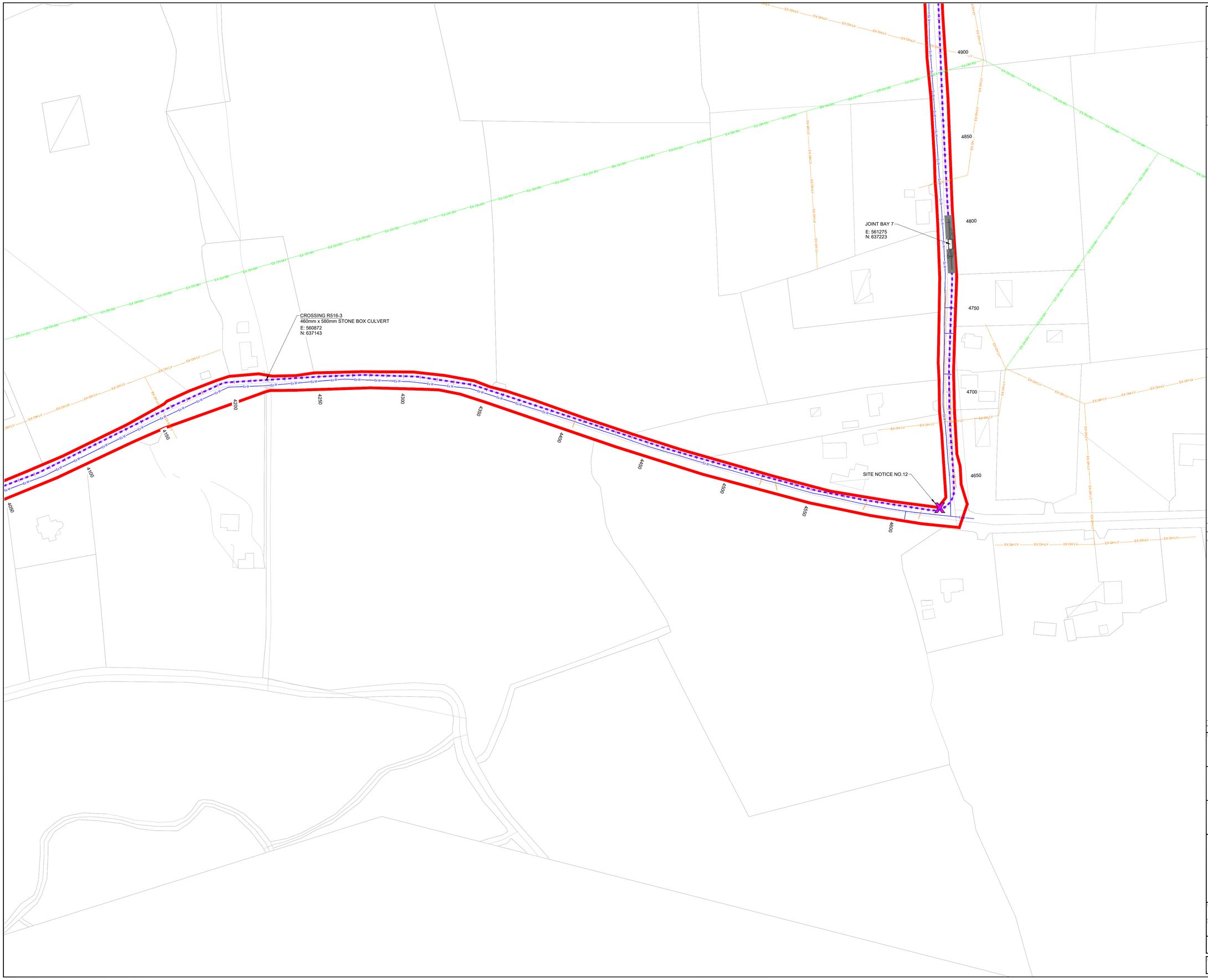
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CLIENT:
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KEY PLAN:



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4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 17

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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ENGINEERING AND ENVIRONMENTAL CONSULTANTS
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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION:		STATUS:
FOR APPROVAL		S4
DRAWING NUMBER:		REV:
22635 - MWP - 00 - 00 - DR - C - 5022		P01

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5. ALL DIMENSIONS ARE IN **METRES**, UNLESS NOTED OTHERWISE.

LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 18

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR - C - 5023		REV: P01

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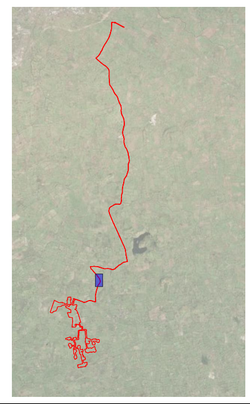
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LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

JOINT BAY 9
E: 561311
N: 638724

CROSSING L8011-1
300mm DIAMETER TWINWALL PIPE
E: 561391
N: 638720

SITE NOTICE NO.13

JOINT BAY 8
E: 561465
N: 638163

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

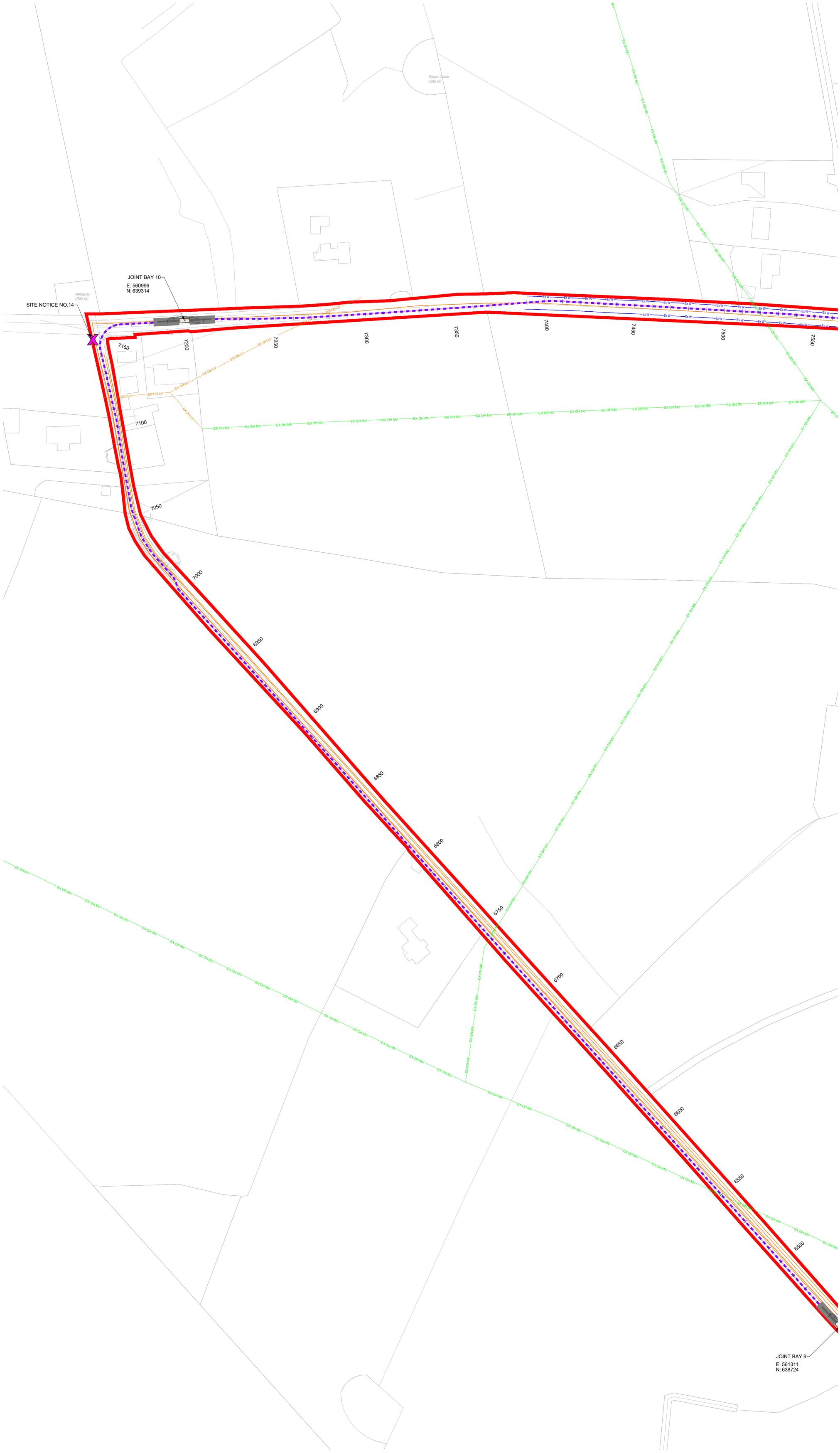
TITLE:
SITE LAYOUT - SHEET 19

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4

DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR-C- 5024
REV: P01



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LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

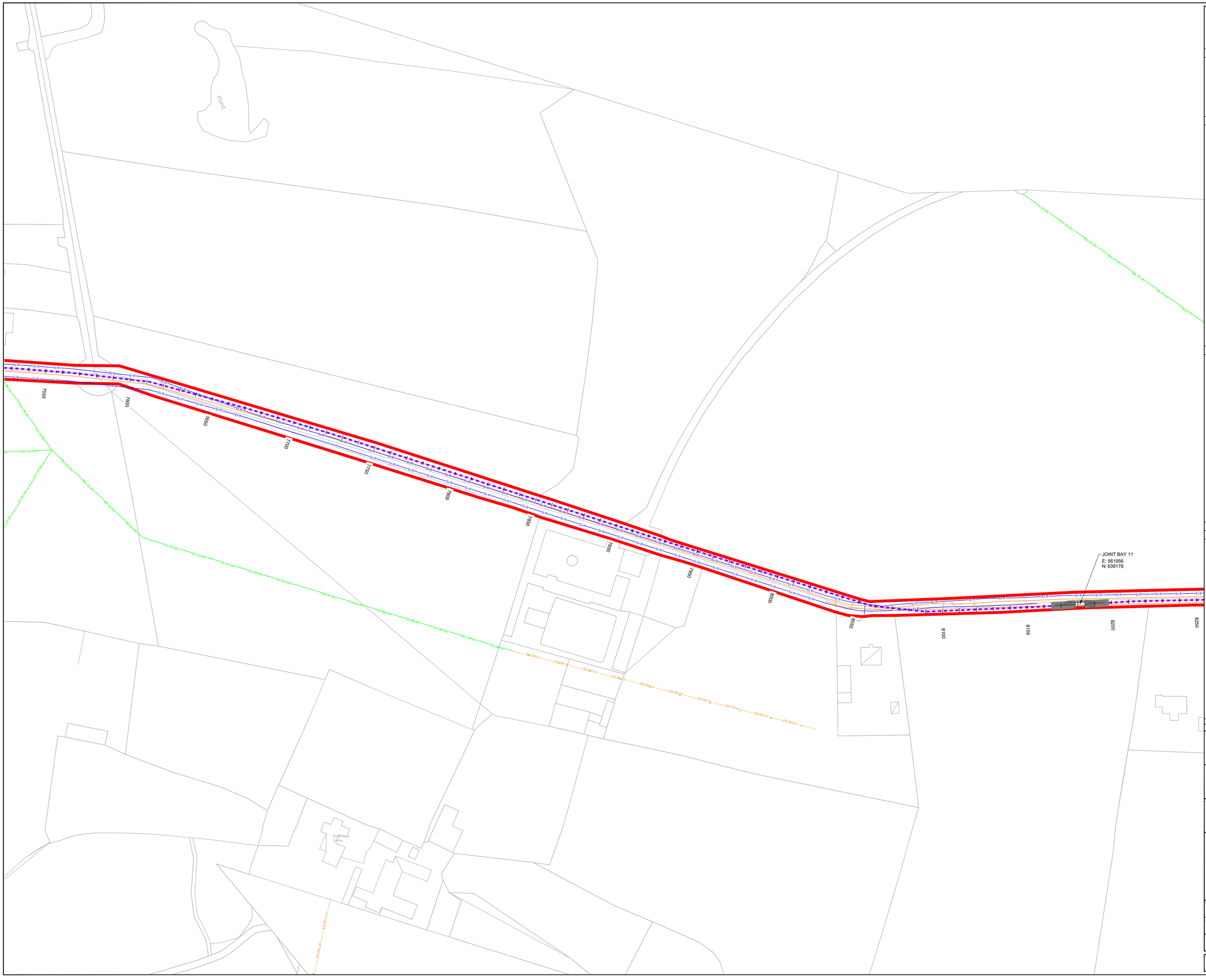
PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 20

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR - C - 5025		REV: P01



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LEGEND:

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- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 21

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION:		STATUS:
FOR APPROVAL		S4
DRAWING NUMBER:		REV:
22635 - MWP - 00 - 00 - DR - C - 5026		P01



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LEGEND:

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- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

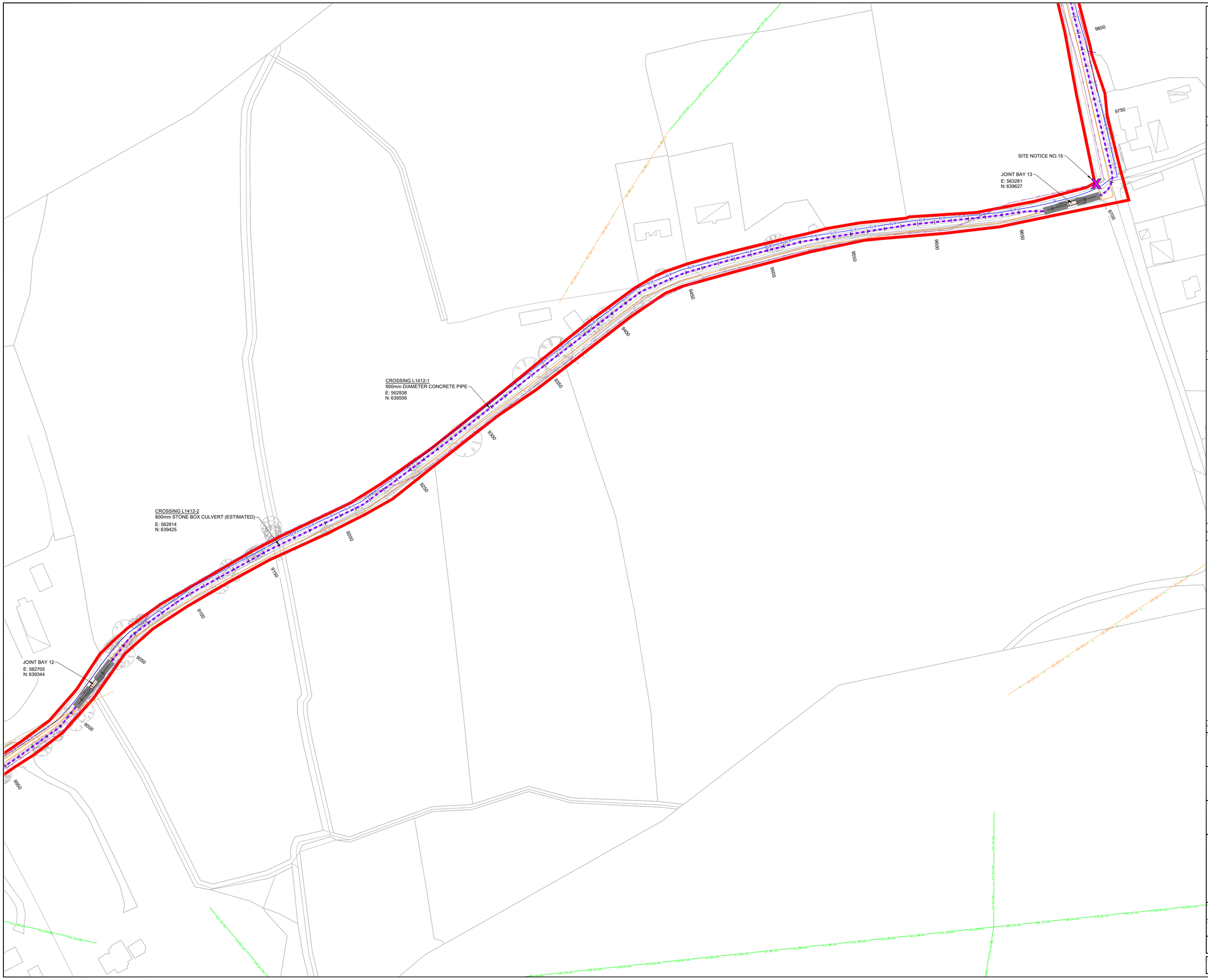
PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 22

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR - C - 5027		REV: P01



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LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

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CYAL50339548

TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 23

CLIENT:
BALLINLEE GREEN ENERGY LTD.

MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
CORK | TRALEE | LONDON | LIMERICK
mwp.ie

DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION:		STATUS:
FOR APPROVAL		S4
DRAWING NUMBER:		REV:
22635 - MWP - 00 - 00 - DR-C - 5028		P01

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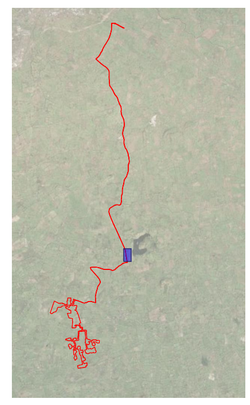
NOTES:

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2. ALL LEVELS ARE IN **METRES** RELATED TO ORDNANCE DATUM MALIN HEAD.
3. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. DRAWINGS ARE NOT TO BE SCALED.
5. ALL DIMENSIONS ARE IN **METRES**, UNLESS NOTED OTHERWISE.

LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

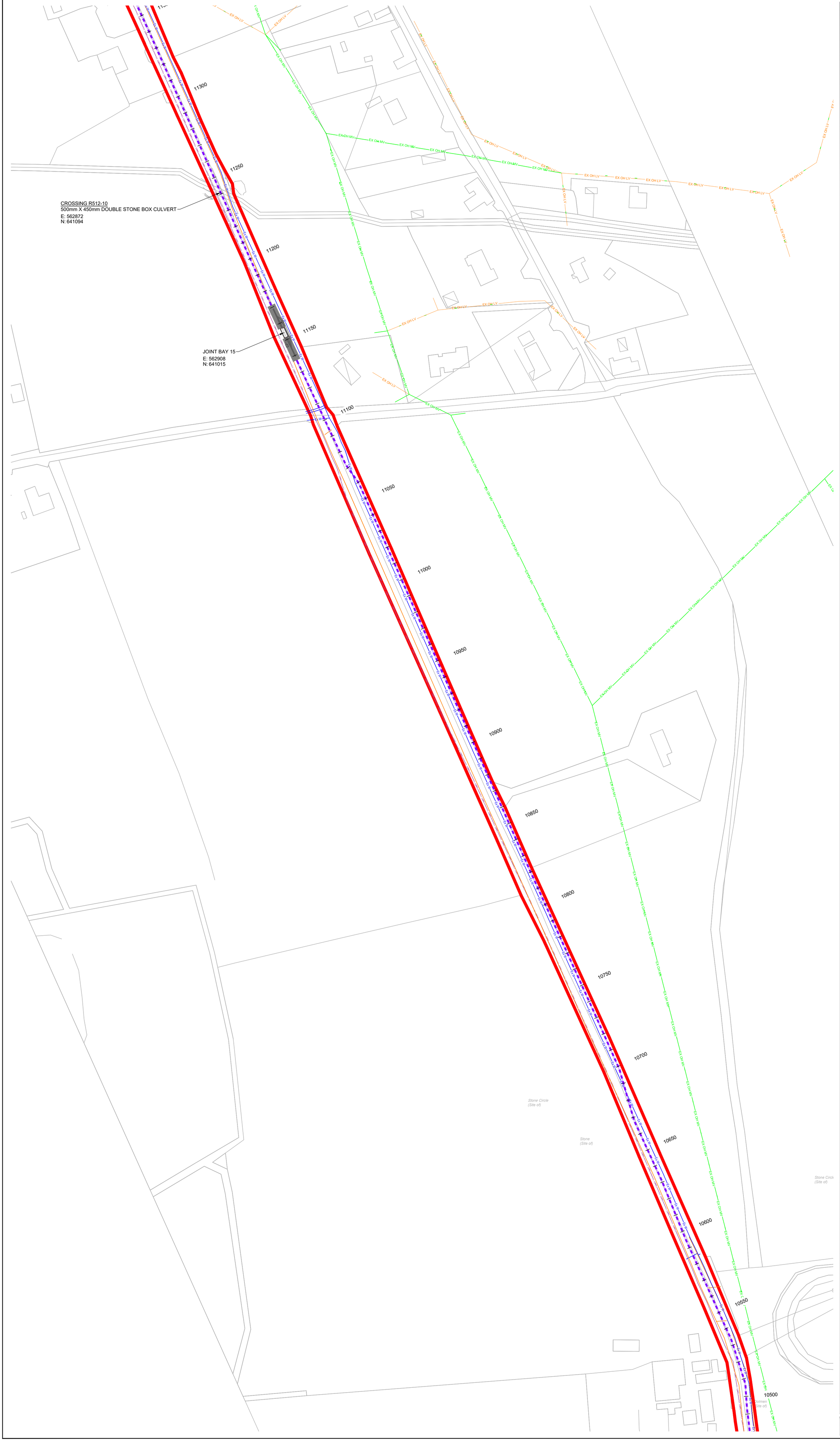
PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 24

CLIENT:
BALLINLEE GREEN ENERGY LTD.

MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR-C- 5029		REV: P01


CROSSING R512-10
500mm X 450mm DOUBLE STONE BOX CULVERT
E: 562872
N: 641094
JOINT BAY 15
E: 562908
N: 641015
11300
11250
11200
11150
11100
11050
11000
10950
10900
10850
10800
10750
10700
10650
10600
10550
10500
EX OH LV
EX OH MV
EX G
EX W
Stone Circle
(Site of)
Stone
(Site of)
Stone Circle
(Site of)
Stone Circle
(Site of)
Stone Circle

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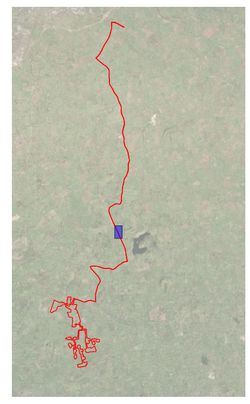
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5. ALL DIMENSIONS ARE IN **METRES**, UNLESS NOTED OTHERWISE.

LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

JOINT BAY 16
E: 562606
N: 641675

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 26

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR - C - 5031		REV: P01

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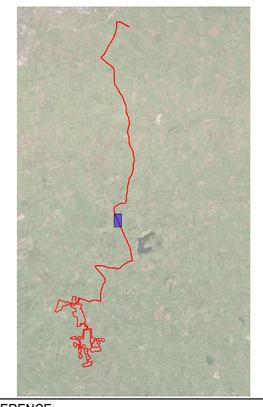
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LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

JOINT BAY 17
E: 562292
N: 642379

CROSSING R512-8
300mm STONE BOX CULVERT (ESTIMATED)
E: 562341
N: 642260

CROSSING R512-9
300mm STONE BOX CULVERT (ESTIMATED)
E: 562417
N: 642101

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 27

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR - C - 5032		REV: P01

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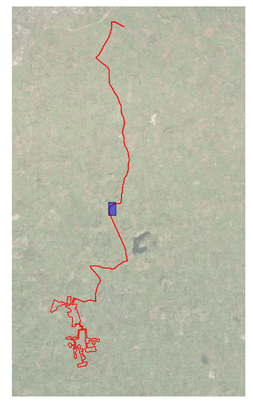
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LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

JOINT BAY 18
E: 562366
N: 643202

TRANSITION CHAMBER OR TRANSITION COUPLER
LAUNCH/ RECEIVE PIT FOR HDD

HORIZONTAL DIRECTIONAL DRILLED (HDD) CONSTRUCTION METHODOLOGY FOR THIS SECTION OF THE GRID ROUTE

LAUNCH/RECEIVE PIT FOR HDD
TRANSITION CHAMBER OR TRANSITION COUPLER

CROSSING R512-6
2.4m x 2.4m BOX CULVERT AS CATTLE UNDERPASS
E: 562144
N: 642989

CROSSING R512-7
500mm x 250mm STONE BOX CULVERT
E: 562182
N: 642661

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 28

CLIENT:
BALLINLEE GREEN ENERGY LTD.

MWP
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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR - C - 5033		REV: P01

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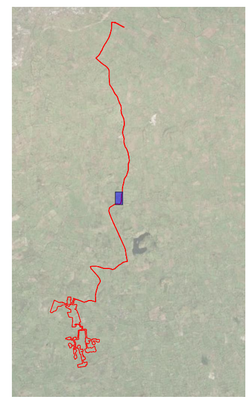
NOTES:

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LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

JOINT BAY 19
E: 562917
N: 643503

LAUNCH/RECEIVE PIT FOR HDD

HORIZONTAL DIRECTIONAL DRILLED (HDD) CONSTRUCTION METHODOLOGY FOR THIS SECTION OF THE GRID ROUTE

CROSSING R512-5
MULTI SPAN MASONRY BRIDGE
E: 562903
N: 643437

SITE NOTICE NO.16

LAUNCH/RECEIVE PIT FOR HDD

TRANSITION CHAMBER OR TRANSITION COUPLER

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CYAL50339548

TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 29

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4

DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR - C - 5034
REV: P01

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LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

JOINT BAY 20
E: 562992
N: 644298

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

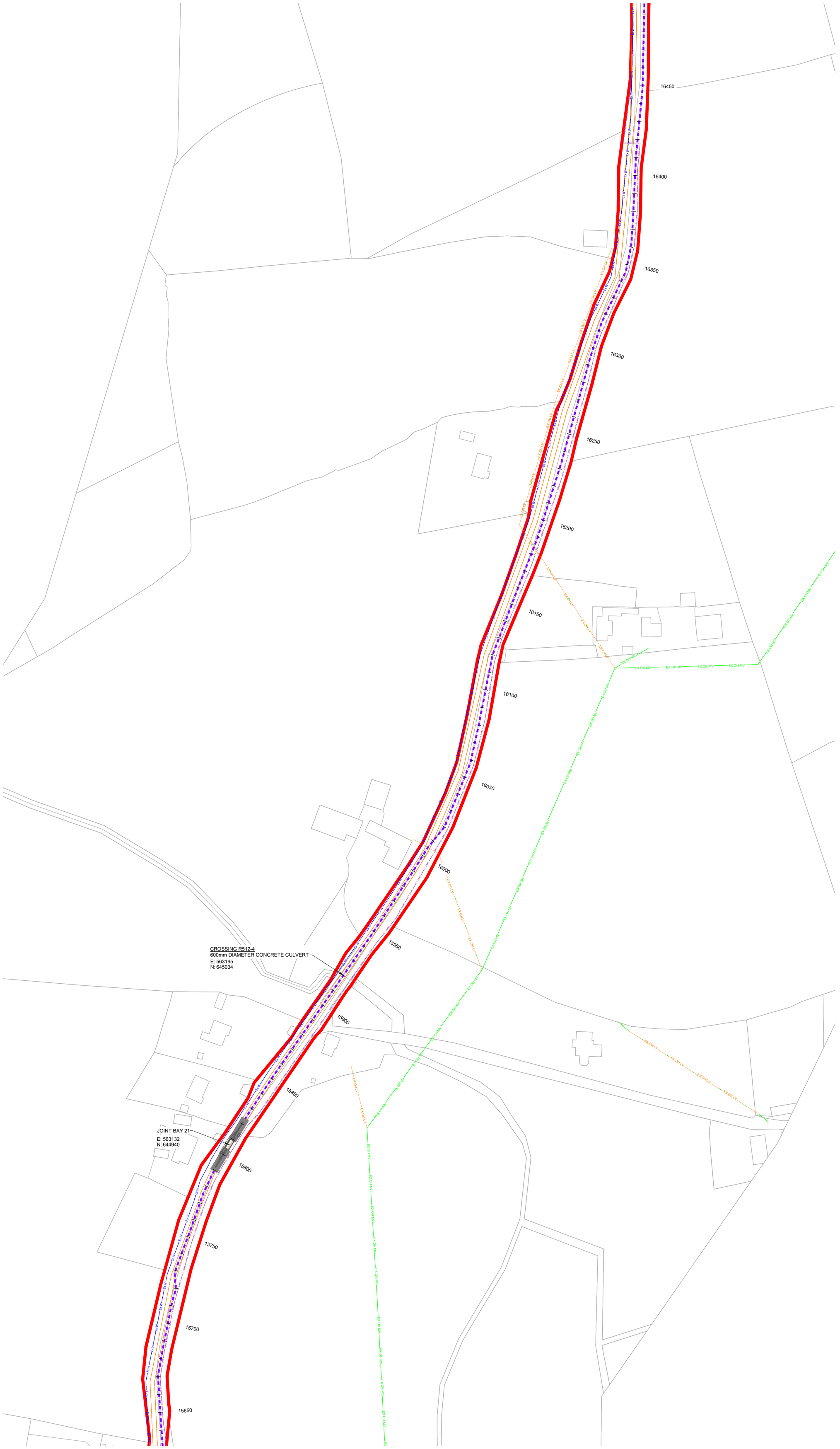
PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 30

CLIENT:
BALLINLEE GREEN ENERGY LTD.

MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR-C- 5035		REV: P01



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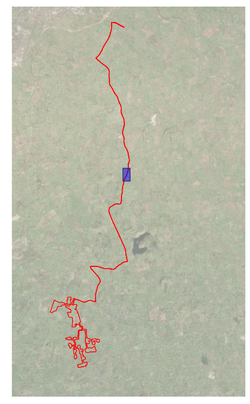
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LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

N

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

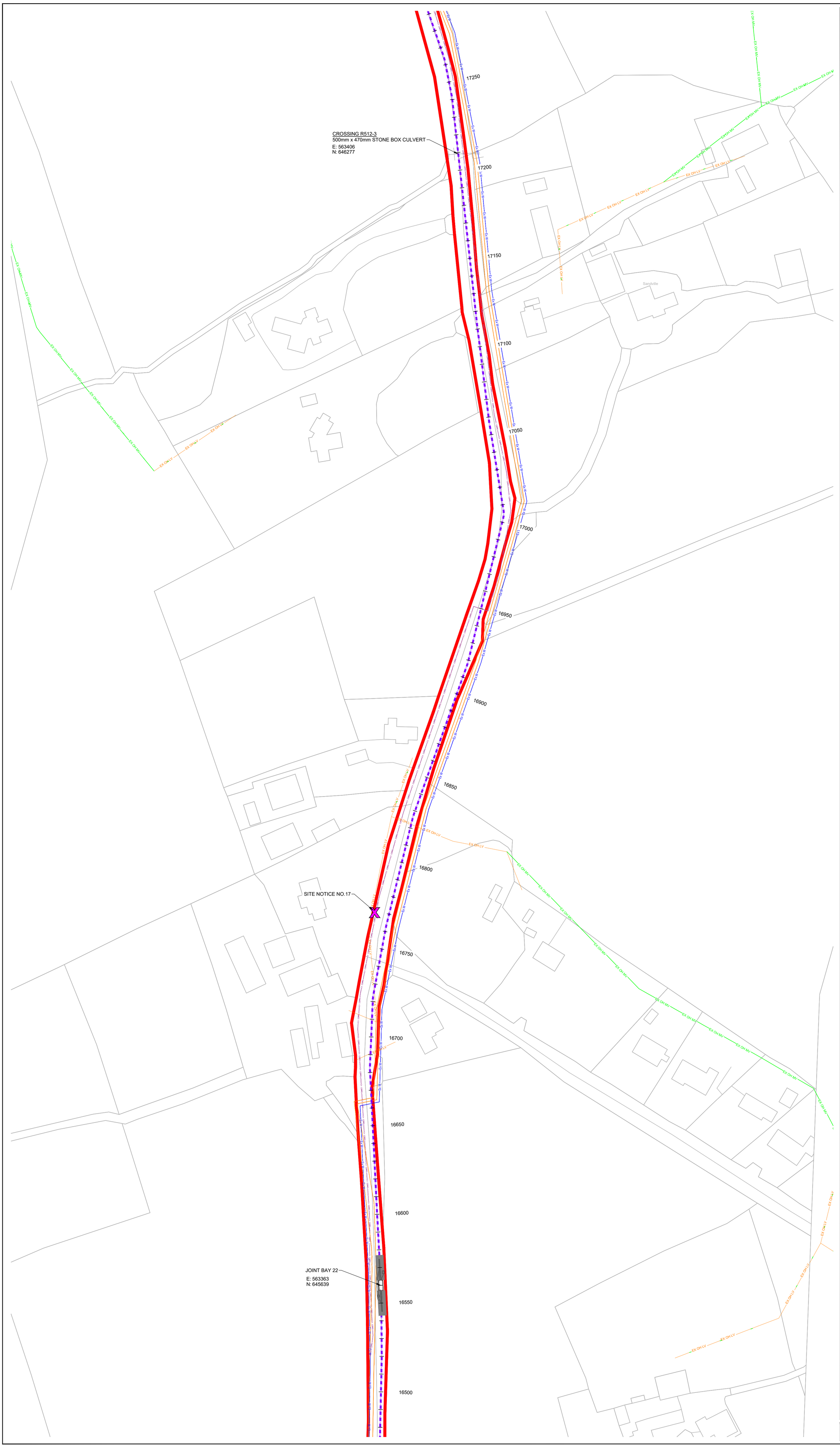
PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 31

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR-C- 5036		REV: P01



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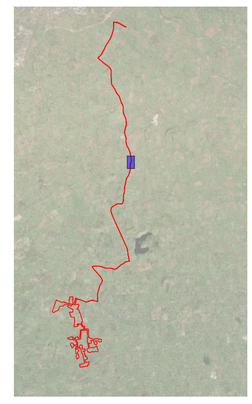
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5. ALL DIMENSIONS ARE IN **METRES**, UNLESS NOTED OTHERWISE.

LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

N

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 32

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR-C- 5037		REV: P01

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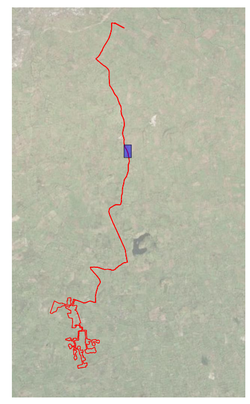
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LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

JOINT BAY 24
E: 563117
N: 647112

JOINT BAY 23
E: 563377
N: 646392

SITE NOTICE NO.18

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

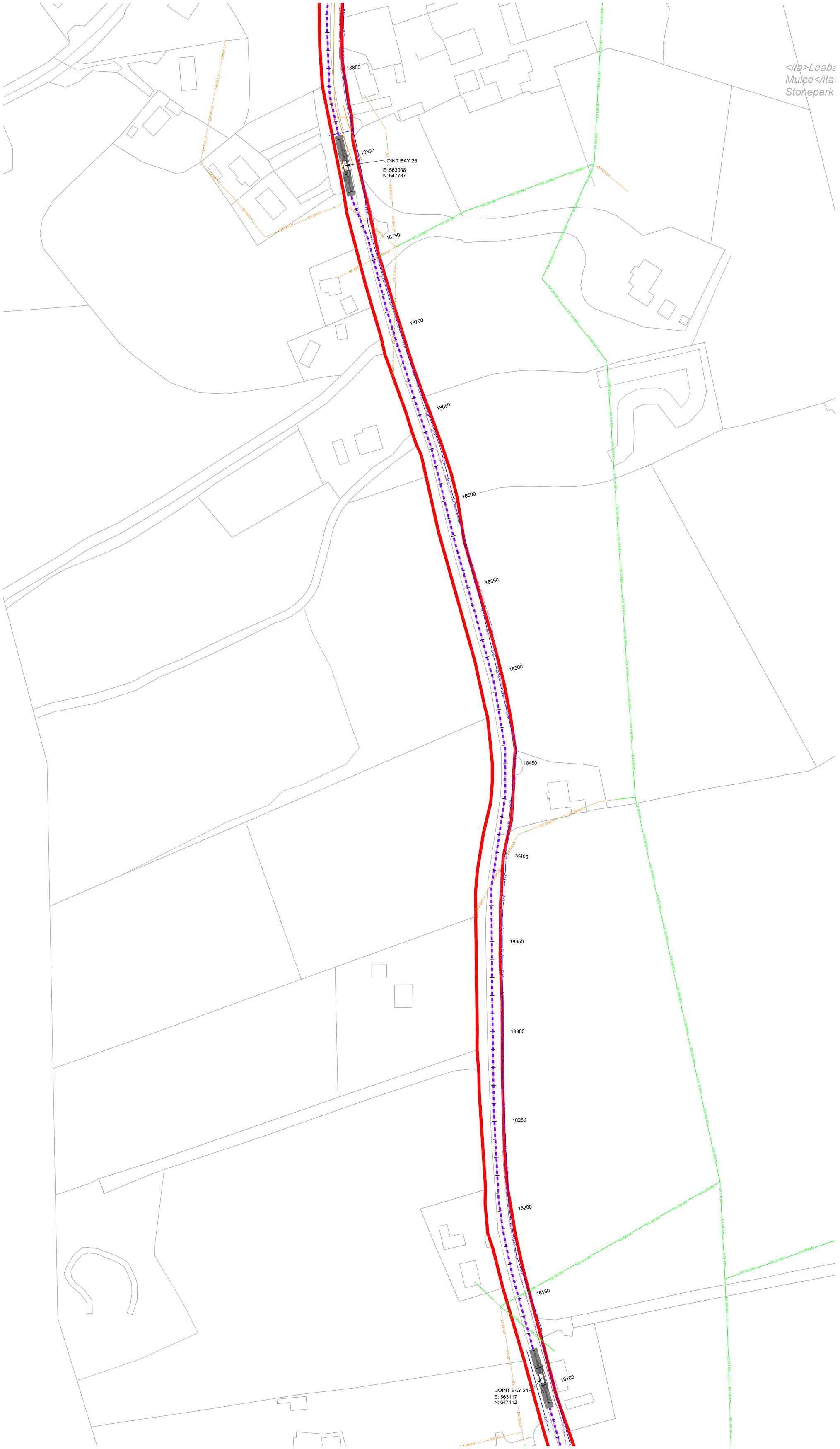
TITLE:
SITE LAYOUT - SHEET 33

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER: 22635	DATE: JUN 2025	SCALE @ A1: 1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4

DRAWING NUMBER:	REV:
22635 - MWP - 00 - 00 - DR - C - 5038	P01



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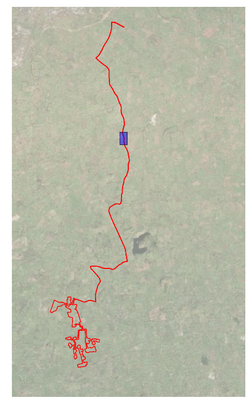
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LEGEND:

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- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

N

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

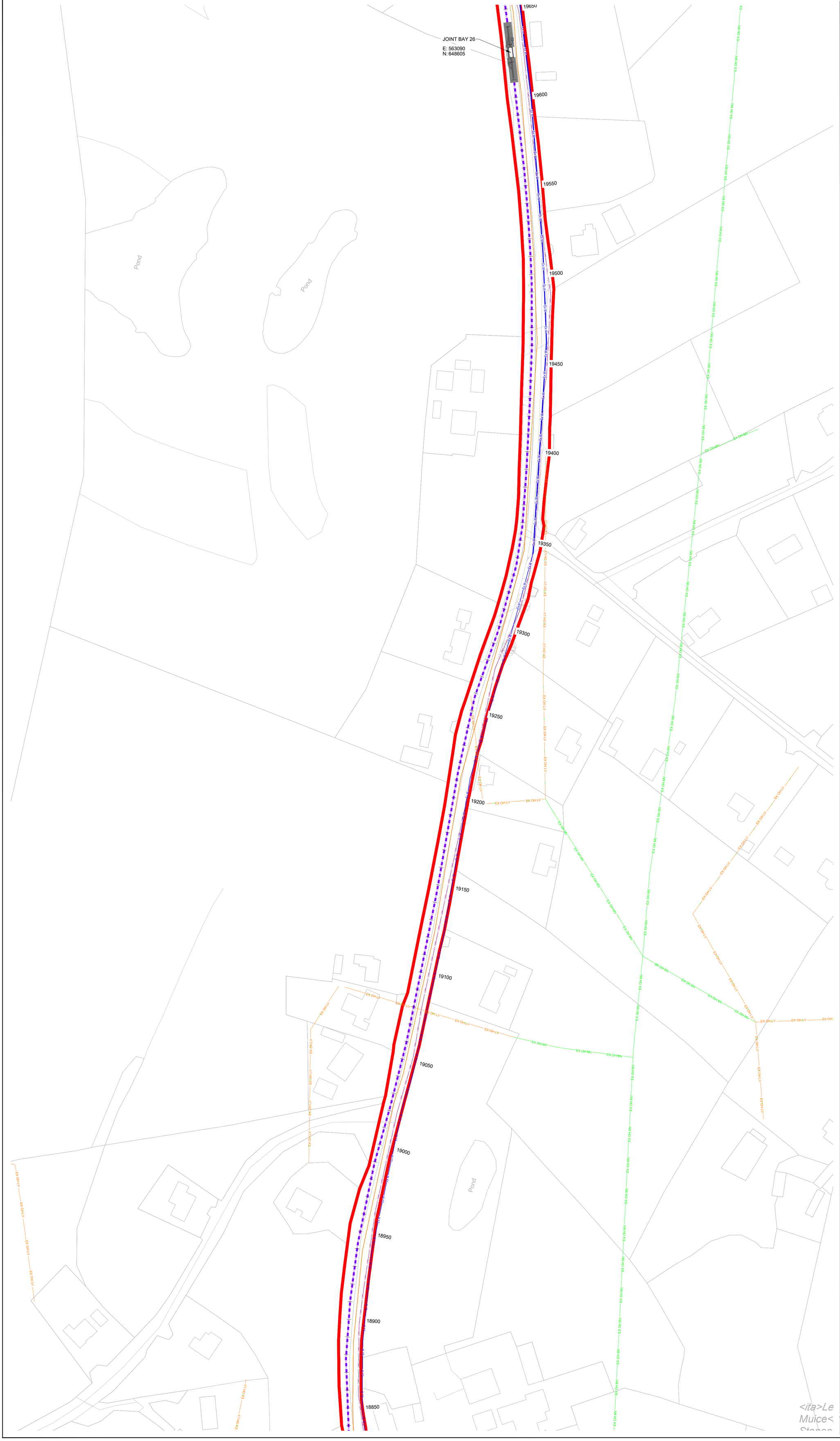
PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 34

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR-C- 5039		REV: P01



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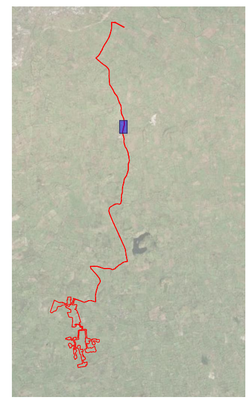
NOTES:

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- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

N

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

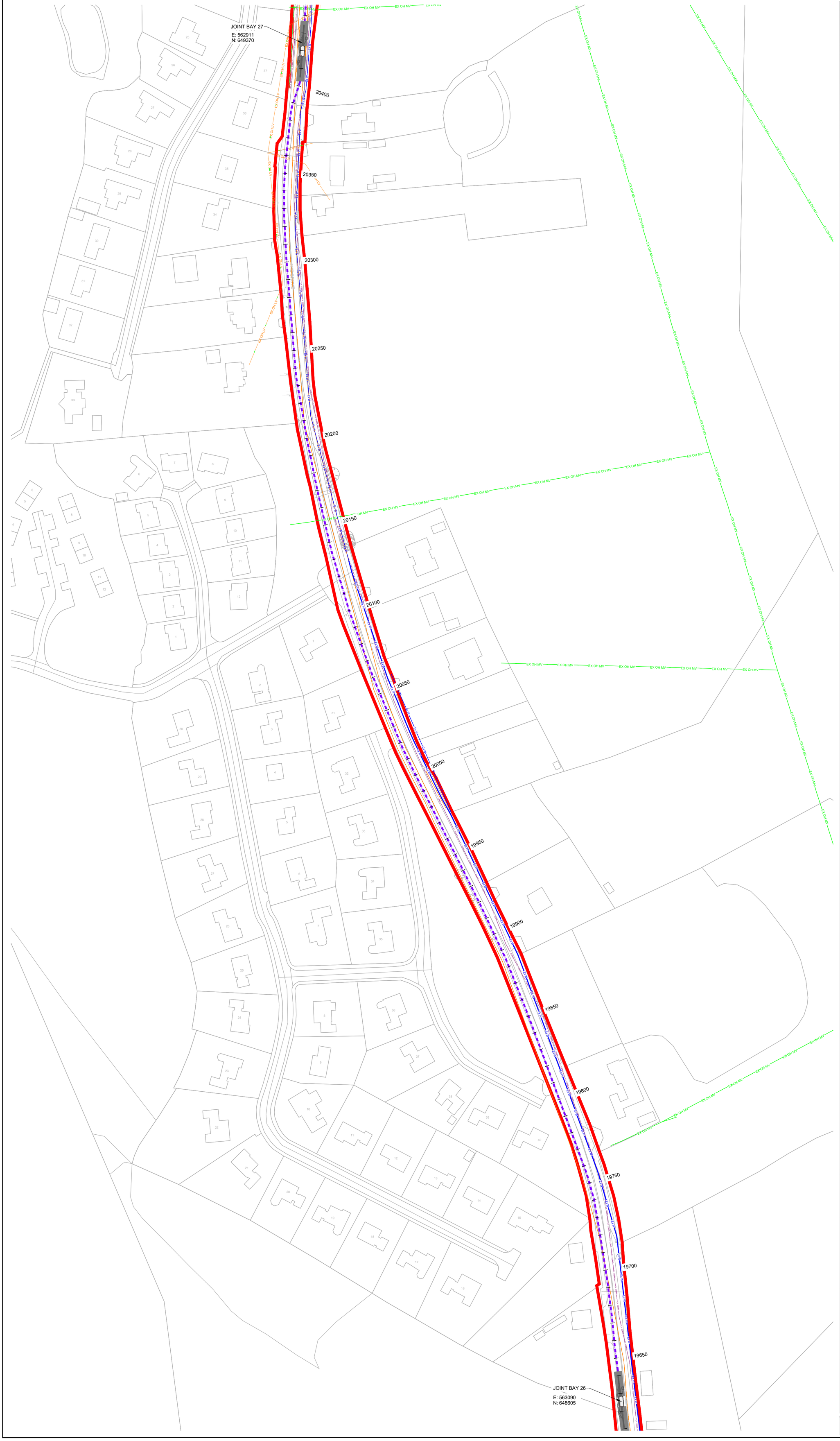
TITLE:
SITE LAYOUT - SHEET 35

CLIENT:
BALLINLEE GREEN ENERGY LTD.

MWP
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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4

DRAWING NUMBER:	REV:
22635 - MWP - 00 - 00 - DR-C- 5040	P01



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LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

N

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 36

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
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PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR-C- 5041		REV: P01

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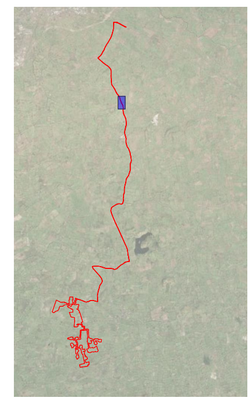
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LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

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4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 37

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR-C- 5042		REV: P01

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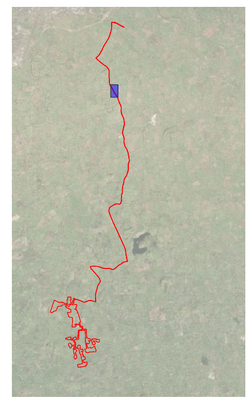
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LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

JOINT BAY 29
E: 562320
N: 650712

JOINT BAY 28
E: 562632
N: 650198

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 38

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
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PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4

DRAWING NUMBER:	REV:
22635 - MWP - 00 - 00 - DR - C - 5043	P01

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LEGEND:

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- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- X SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

JOINT BAY 30
E: 562136
N: 651437

CROSSING R512-2
500mm x 400mm STONE BOX CULVERT
E: 562145
N: 651349

Open Well

N

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

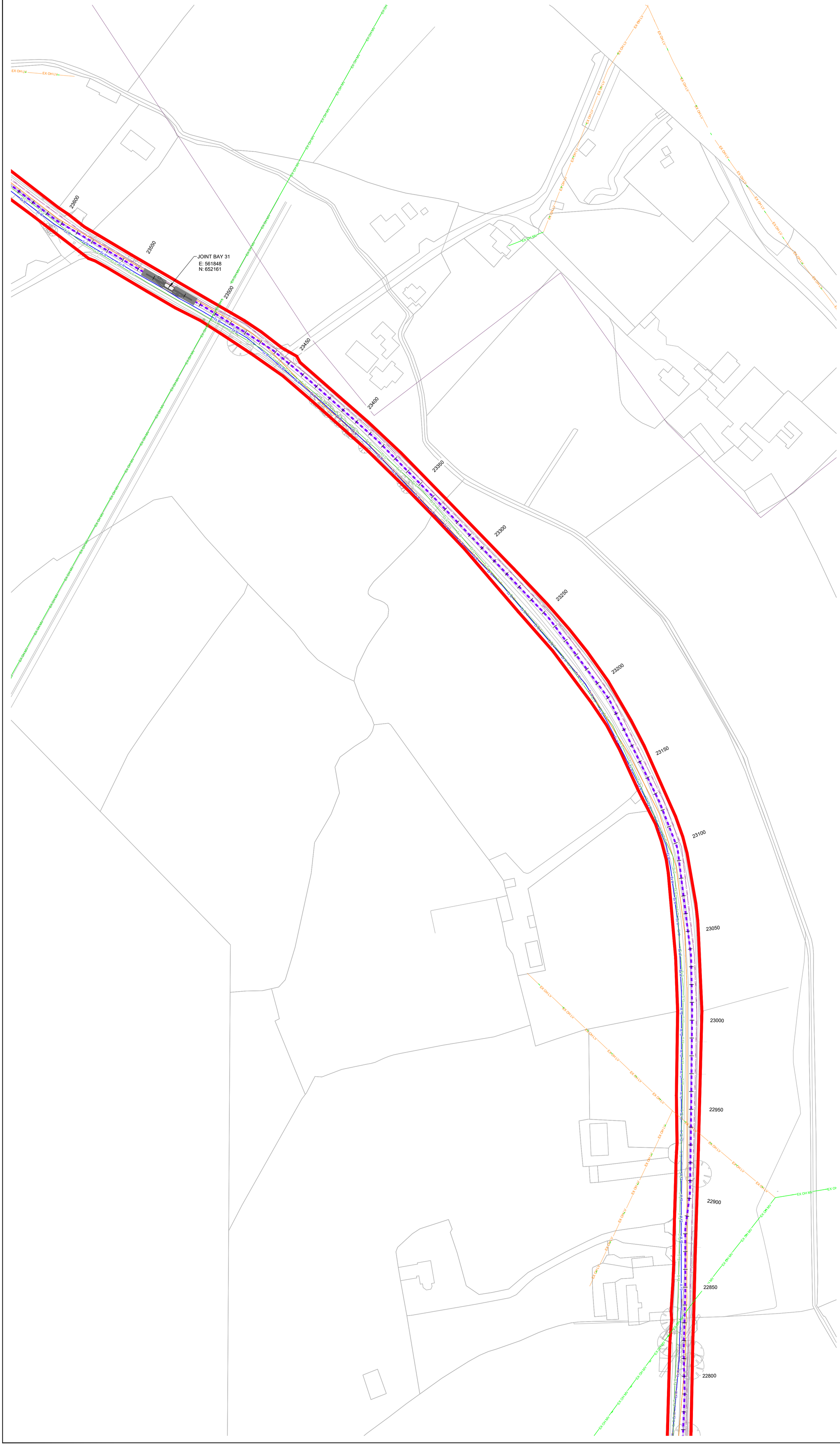
TITLE:
SITE LAYOUT - SHEET 39

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4

DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR - C - 5044
REV: P01



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LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
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- EXISTING MV UNDERGROUND POWER
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- EXISTING TELECOMS
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- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

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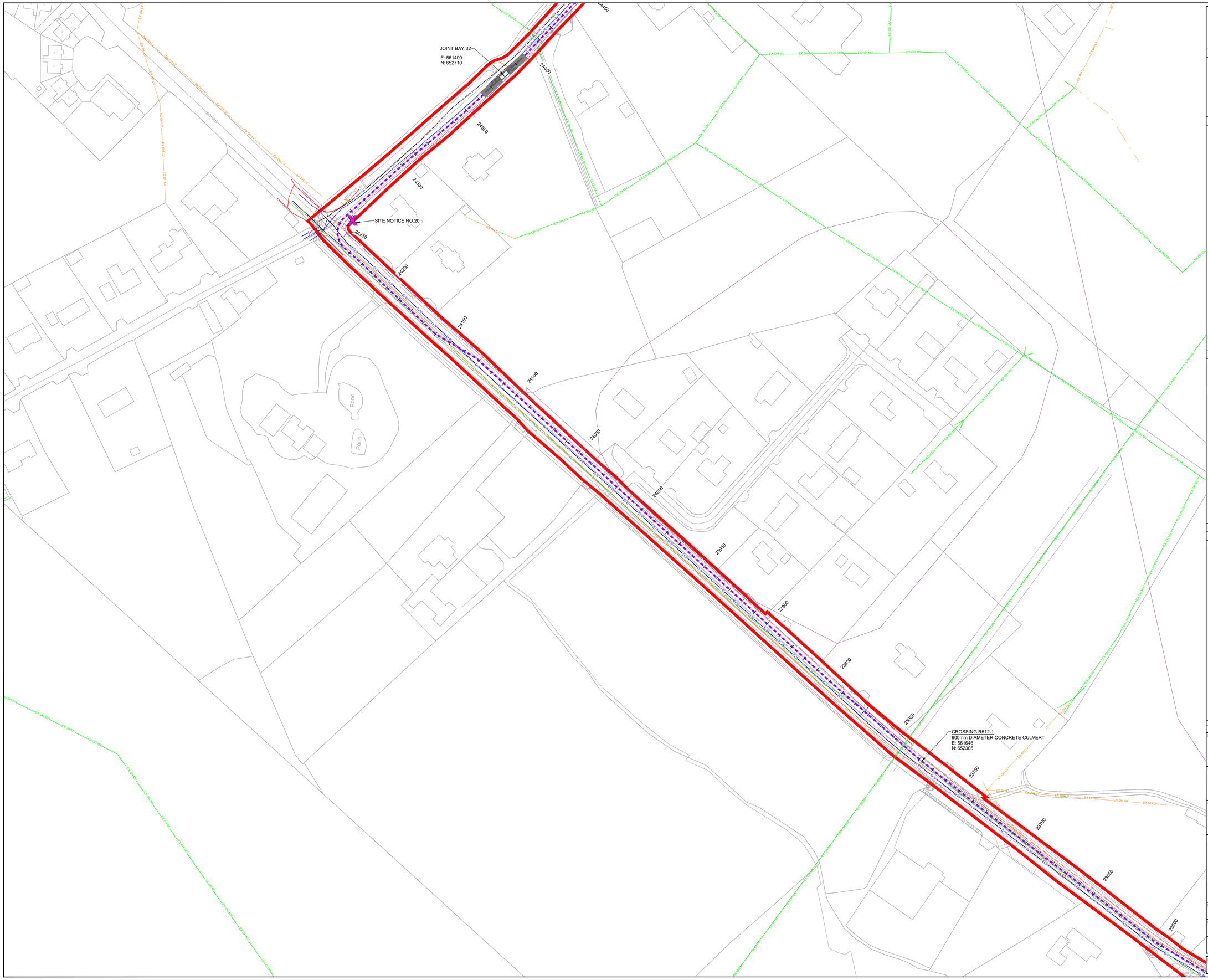
PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 40

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR - C - 5045		REV: P01



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- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

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CYAL50339548

TAILTE ÉIREANN SHEET NO:
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REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 41

CLIENT:
BALLINLEE GREEN ENERGY LTD.

MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
CORK | TRALEE | LONDON | LIMERICK
mwp.ie

DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION		STATUS:
FOR APPROVAL		S4
DRAWING NUMBER:		REV:
22635 - MWP - 00 - 00 - DR - C - 5046		P01

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2. ALL LEVELS ARE IN **METRES** RELATED TO ORDNANCE DATUM MALIN HEAD.
3. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. DRAWINGS ARE NOT TO BE SCALED.
5. ALL DIMENSIONS ARE IN **METRES**, UNLESS NOTED OTHERWISE.

LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

CROSSING L1170-2
1000mm DIAMETER CONCRETE CULVERT
E: 561480
N: 652804

JOINT BAY 32
E: 561400
N: 652710

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 42

CLIENT:
BALLINLEE GREEN ENERGY LTD.

MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4

DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR-C- 5047
REV: P01

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NOTES:

1. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS, BILLS OF QUANTITIES, ARCHITECTURAL, SERVICES AND ENGINEERING DRAWINGS.
2. ALL LEVELS ARE IN **METRES** RELATED TO ORDNANCE DATUM MALIN HEAD.
3. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. DRAWINGS ARE NOT TO BE SCALED.
5. ALL DIMENSIONS ARE IN **METRES**, UNLESS NOTED OTHERWISE.

LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

JOINT BAY 33
E: 561884
N: 653530

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 43

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR - C - 5048		REV: P01

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4. DRAWINGS ARE NOT TO BE SCALED.
5. ALL DIMENSIONS ARE IN **METRES**, UNLESS NOTED OTHERWISE.

LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
- LANDHOLDING BOUNDARY (EDGED IN BLUE)
- 110 kV GRID CONNECTION ROUTE
- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
- EXISTING LV OVERHEAD POWER
- EXISTING MV OVERHEAD POWER
- EXISTING LV UNDERGROUND POWER
- EXISTING MV UNDERGROUND POWER
- EXISTING HV UNDERGROUND POWER
- EXISTING TELECOMS
- EXISTING COMMUNICATIONS
- EXISTING WATERMAIN PUBLIC
- EXISTING WASTEWATER PRIVATE
- EXISTING WASTEWATER PUBLIC
- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

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REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 44

CLIENT:
BALLINLEE GREEN ENERGY LTD.

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DRAWN:	CHECKED:	APPROVED:
OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR - C - 5049		REV: P01



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LEGEND:

- PLANNING APPLICATION BOUNDARY (EDGED IN RED)
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- 110KV JOINT BAY
- EXISTING ELECTRIC CABLE
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- EXISTING GASMAIN DISTRIBUTION
- EXISTING GASMAIN TRANSMISSION
- EXISTING UNKNOWN SERVICE
- SITE NOTICE LOCATIONS

KEY PLAN:



DRAWING REFERENCE:

22635-MWP-00-00-DR-C-5005	SITE LAYOUT - MASTER SHEET

FOR HORIZONTAL DIRECTIONAL DRILL DETAILS REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5437
FOR CROSSING DETAIL OVER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING DETAIL UNDER EXISTING CULVERT OR SERVICE REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438
FOR CROSSING BRIDGE DETAIL REFER TO DRAWING NO. 22635-MWP-00-00-DR-C-5438

N

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TAILTE ÉIREANN SHEET NO:
4744-D, 4804-D,4744-C, 4804-A, 4804-C, 4867-A, 4867-B, 4867-D, 4928-B, 4989-D, 5048-B, 5048-D, 5108-A, 5109-A, 5109-B, 4928-D, 4989-C, 5049-B, 5108-B, 5049-C, 4988-D, 4866-B, 4866-C, 5108-D, 5048-C, 4929-B, 4804-B, 4866-D, 4929-D, 4988-B, 4989-B, 5049-D, 5108-C, 4866, 4867, 4988, 4989, 4928, 4929, 5048, 5049, 5108, 5108-B, 5108-D, 5109, 5109-C, 5231-B, 5231, 5232, 5232-A, 5169, 5169-B, 5169-D, 5170, 5170-A and 5170-C

REV	DATE	DESCRIPTION	BY	APP
P01	25.09.25	ISSUED FOR PLANNING	JK	CMCL

PROJECT:
BALLINLEE WIND FARM

TITLE:
SITE LAYOUT - SHEET 45

CLIENT:
BALLINLEE GREEN ENERGY LTD.

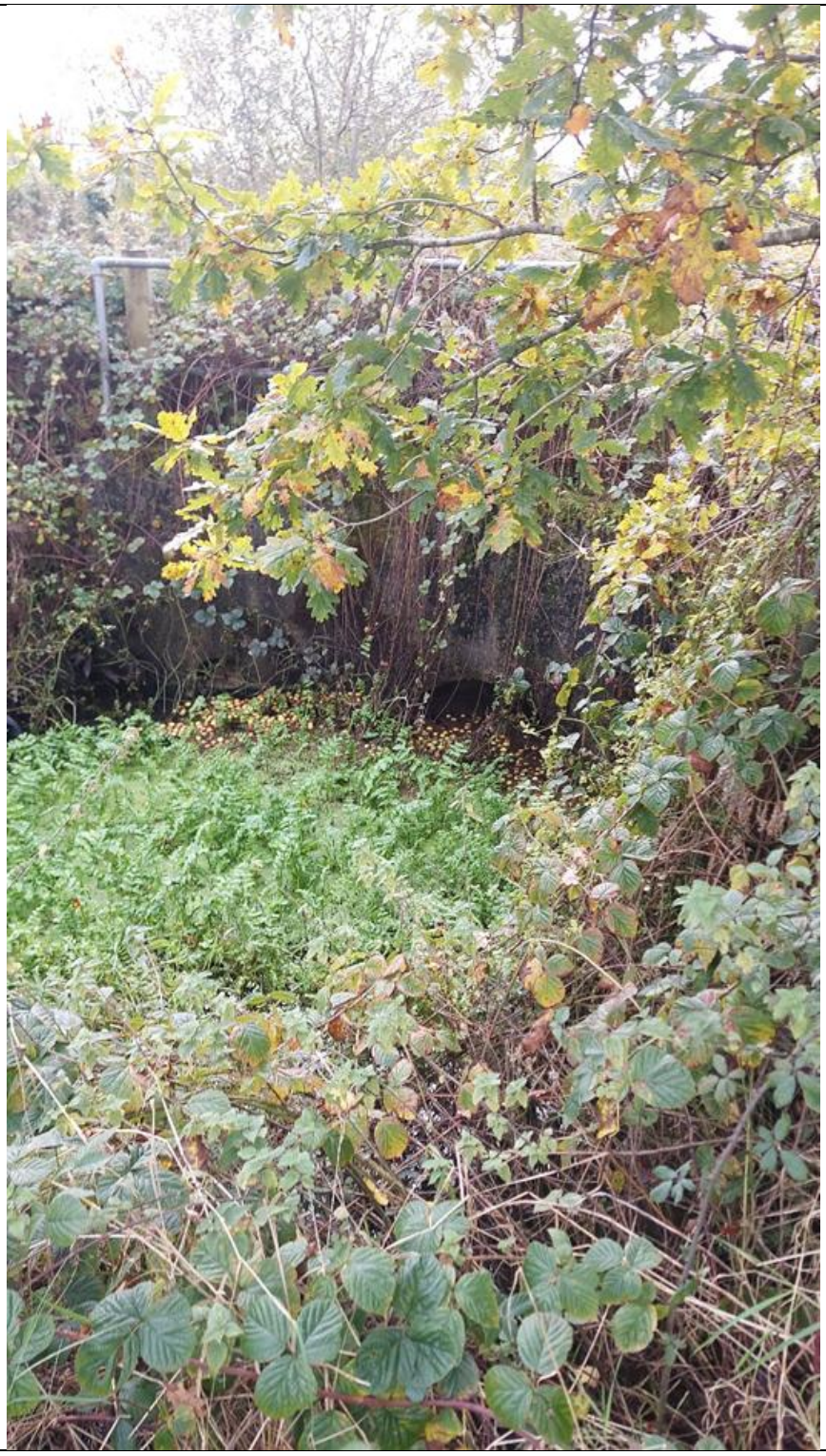
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OR	CMCL	PC
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	JUN 2025	1 : 1000
STATUS DESCRIPTION: FOR APPROVAL		STATUS: S4
DRAWING NUMBER: 22635 - MWP - 00 - 00 - DR - C - 5050		REV: P01

Appendix 2D

Appendix 2 Infrastructure Crossing Photographs

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Crossing Number	Pictures
N24-1	

N24-2	

N24-3	

L1170-1	
L1170-2	

R512-1	

R512-2	

R512-2	

R512-3	
R512-4	
R512-5	

R512-6	

R512-7	

R512-8	

R512-9	

R512-10	

L1412-1	

L1412-1	
L1412-2	No image due to poor access
L8011-1	No image due to poor access

R516-3		

Appendix 2D

Appendix 3 Utility Providers Data

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Contents

BT Maps and Email Correspondence

Eir Email Correspondence and Maps

ENET Map

ESB Email Correspondence and Maps

Shannonside Galv Pumped Rising Foul Sewer

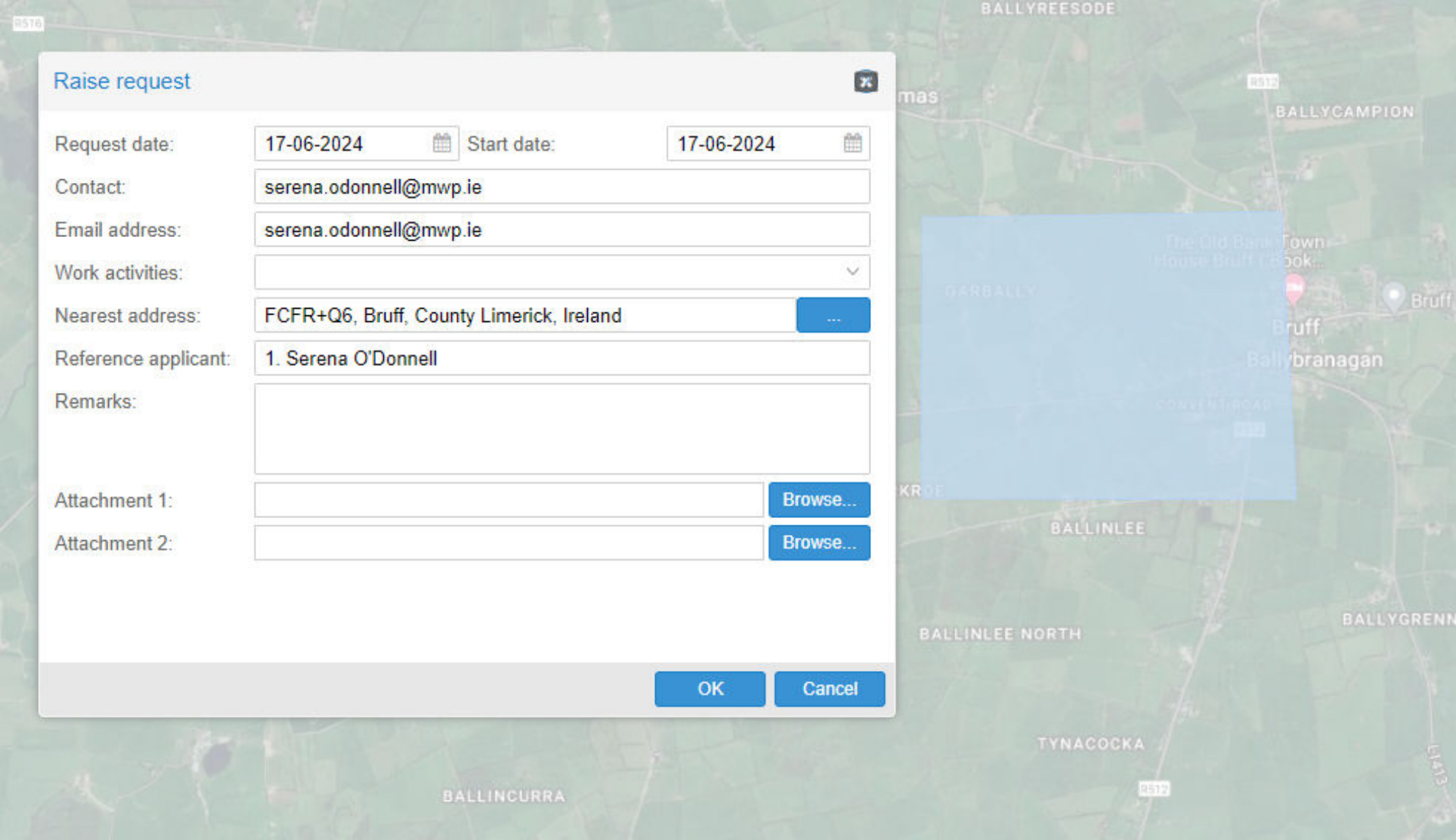
Gas Networks Ireland Emails Correspondence and Maps

Irish Water Maps

Virgin Media Email Correspondence and Map

Appendix 3

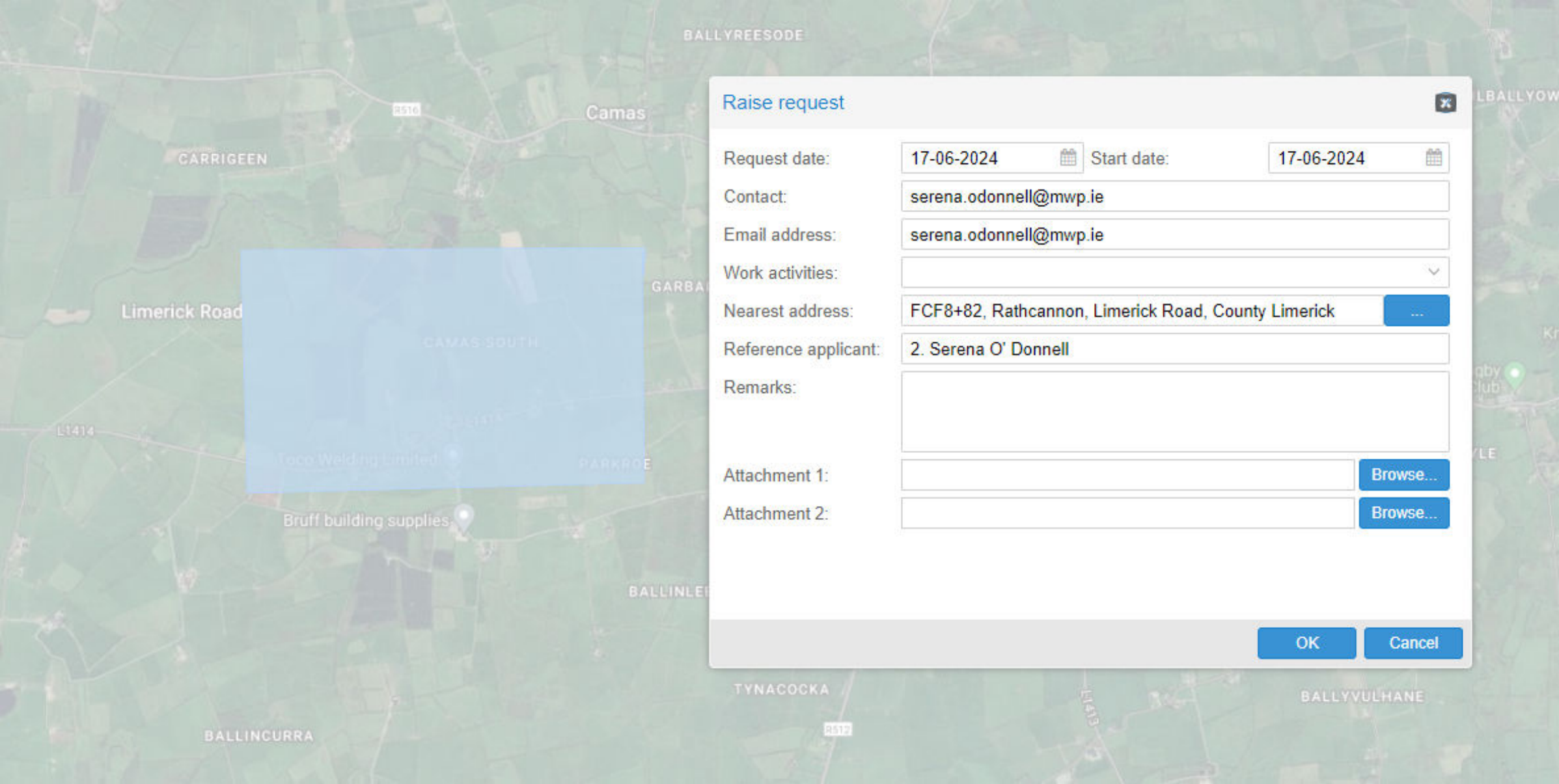
BT Maps and Email Correspondence



Raise request

Request date:	17-06-2024	Start date:	17-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	FCFR+Q6, Bruff, County Limerick, Ireland ...		
Reference applicant:	1. Serena O'Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

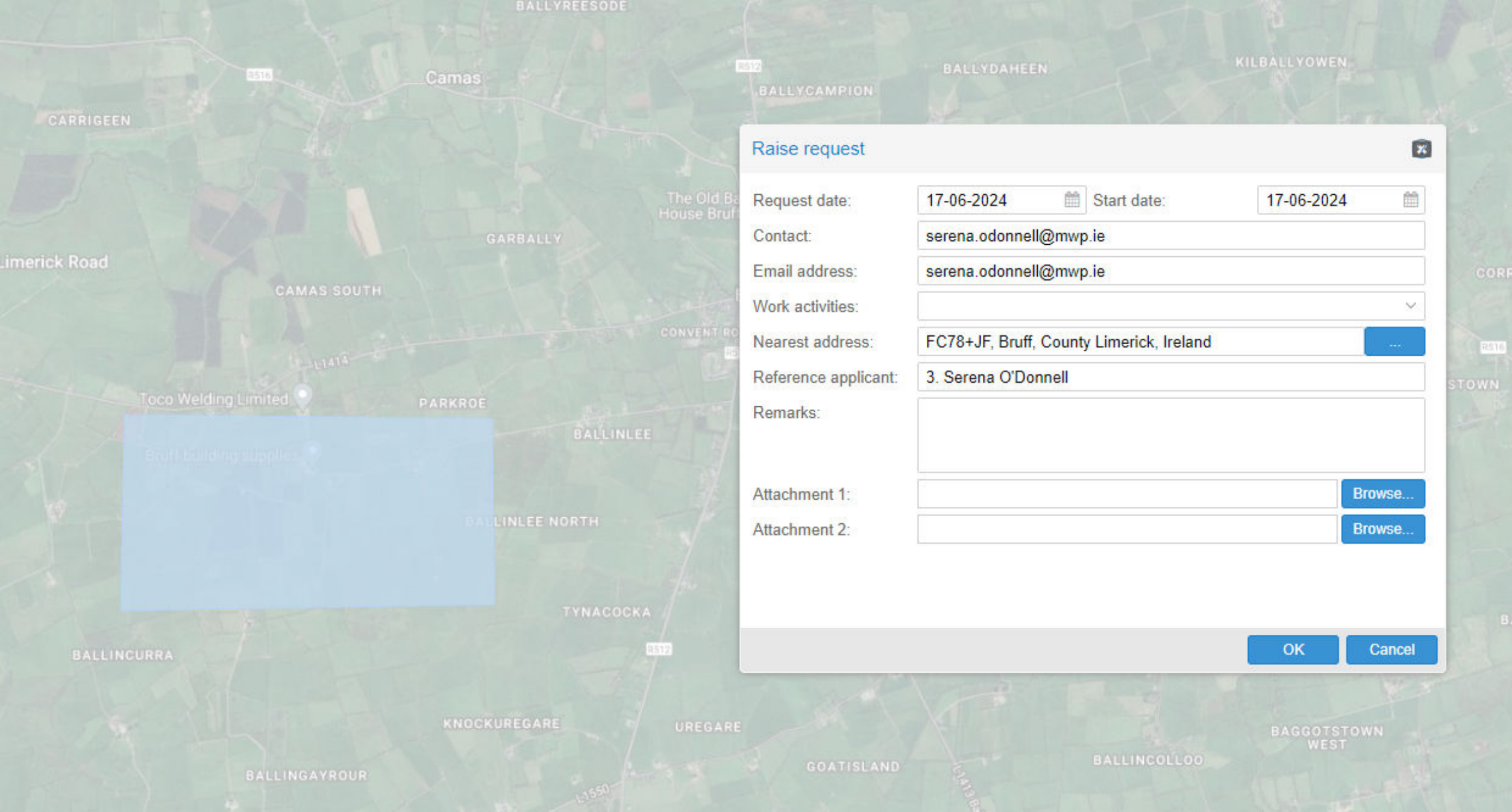
OK Cancel



Raise request

Request date:	17-06-2024	Start date:	17-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	FCF8+82, Rathcannon, Limerick Road, County Limerick ...		
Reference applicant:	2. Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

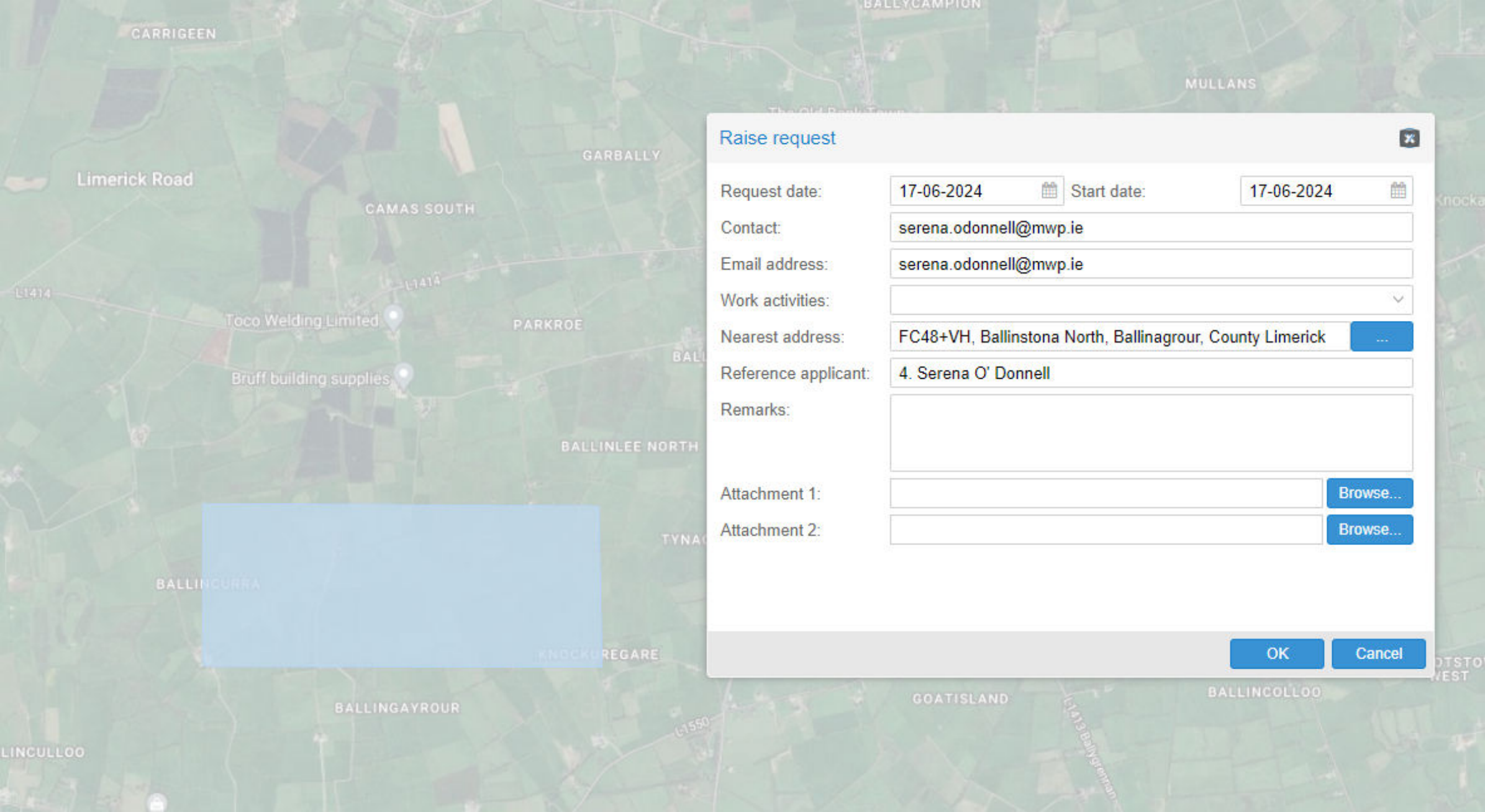
OK Cancel



Raise request

Request date:	17-06-2024	Start date:	17-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	FC78+JF, Bruff, County Limerick, Ireland ...		
Reference applicant:	3. Serena O'Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

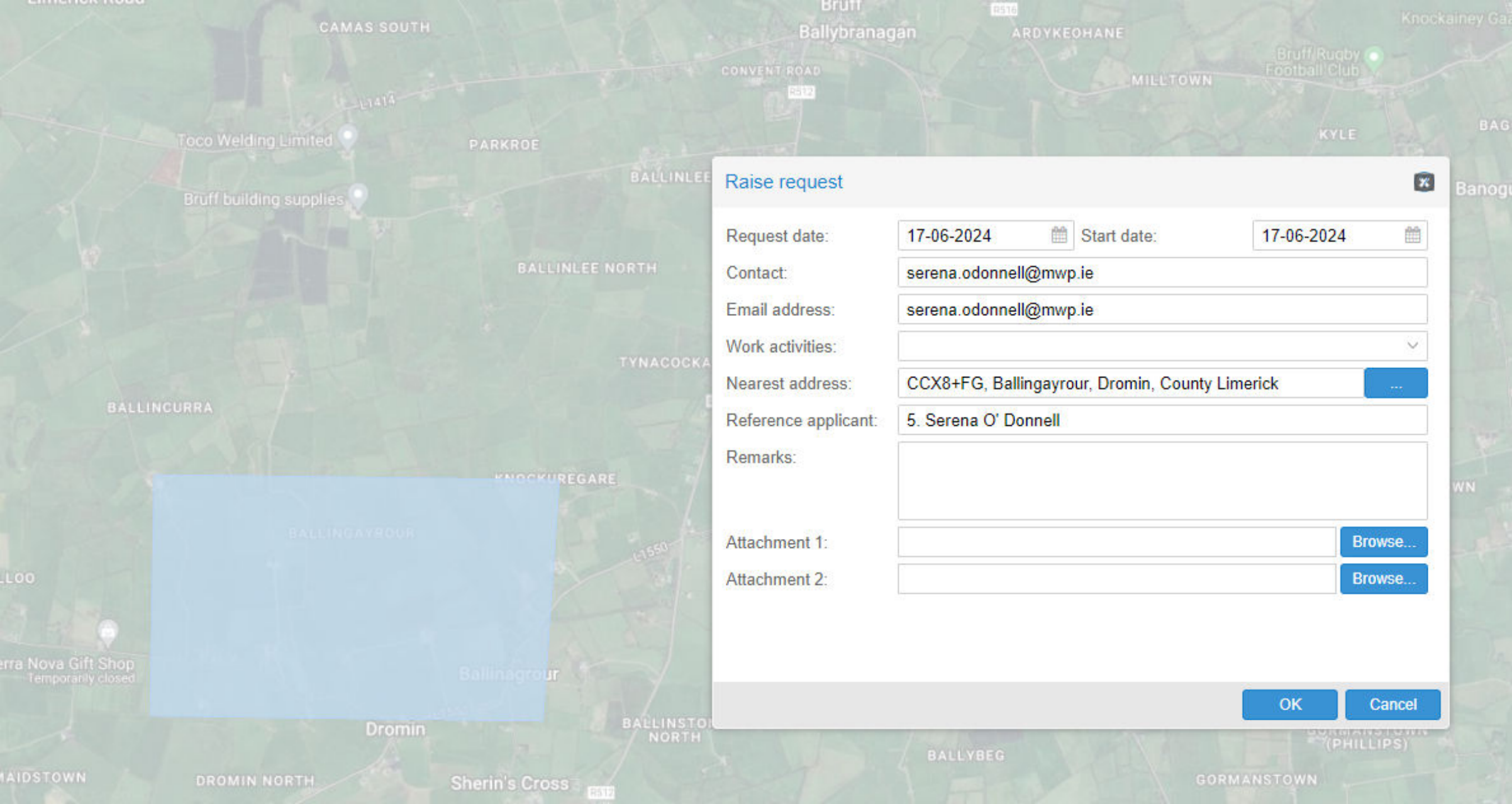
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Raise request

Request date:	17-06-2024	Start date:	17-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	FC48+VH, Ballinstona North, Ballinagrour, County Limerick ...		
Reference applicant:	4. Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

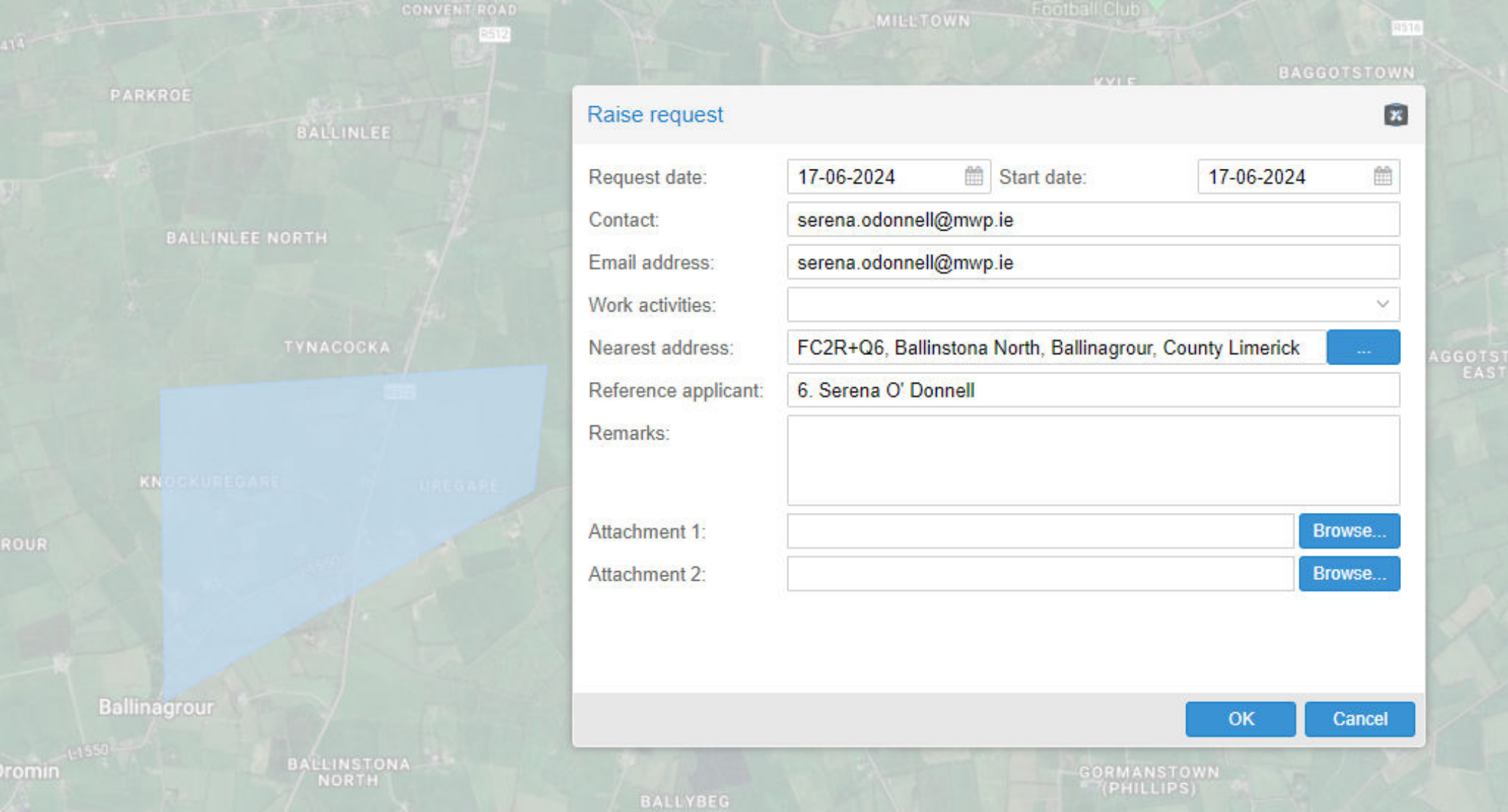
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Raise request

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Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	CCX8+FG, Ballingayrour, Dromin, County Limerick ...		
Reference applicant:	5. Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

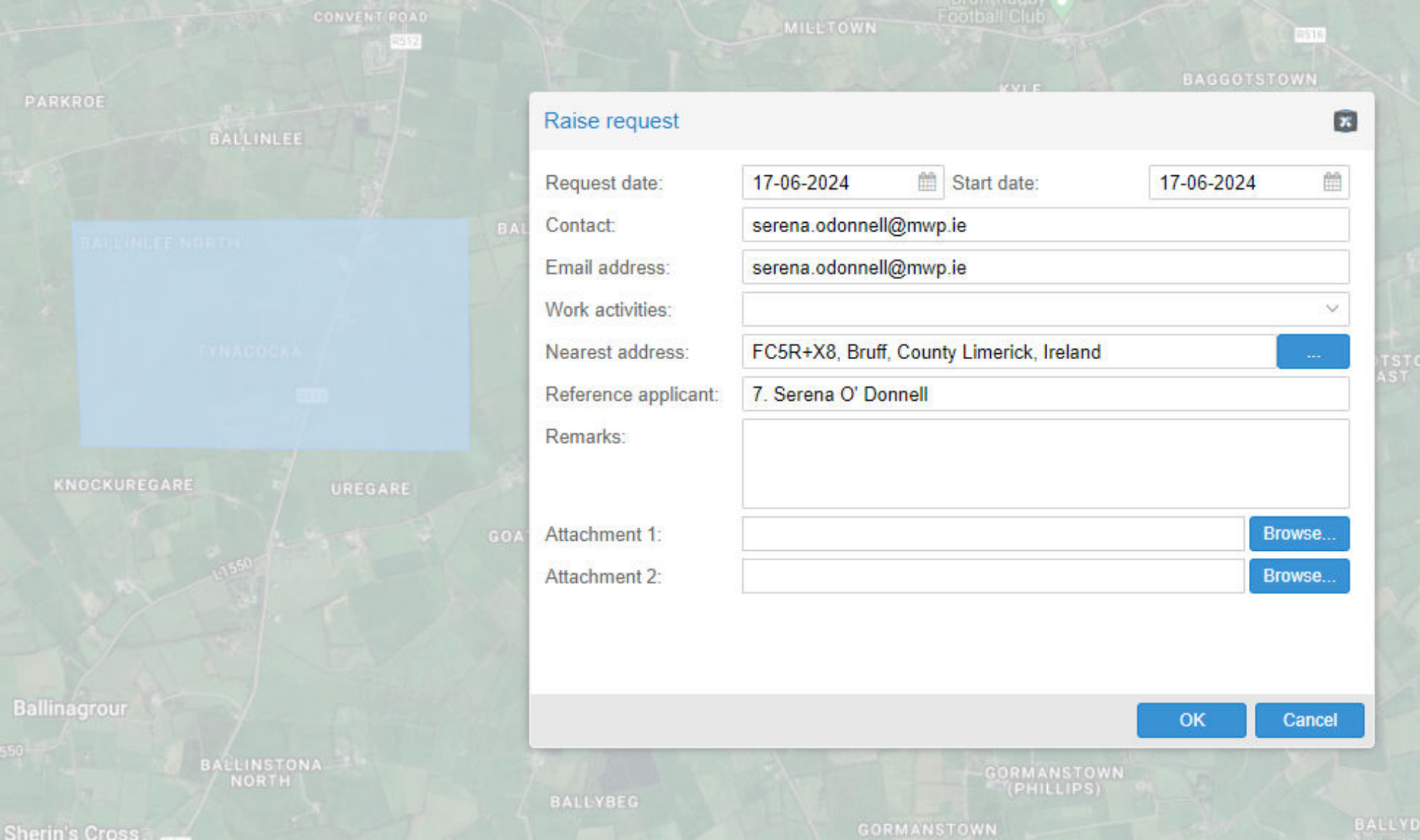
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Raise request

Request date:	17-06-2024	Start date:	17-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	FC2R+Q6, Ballinstona North, Ballinagrour, County Limerick ...		
Reference applicant:	6. Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

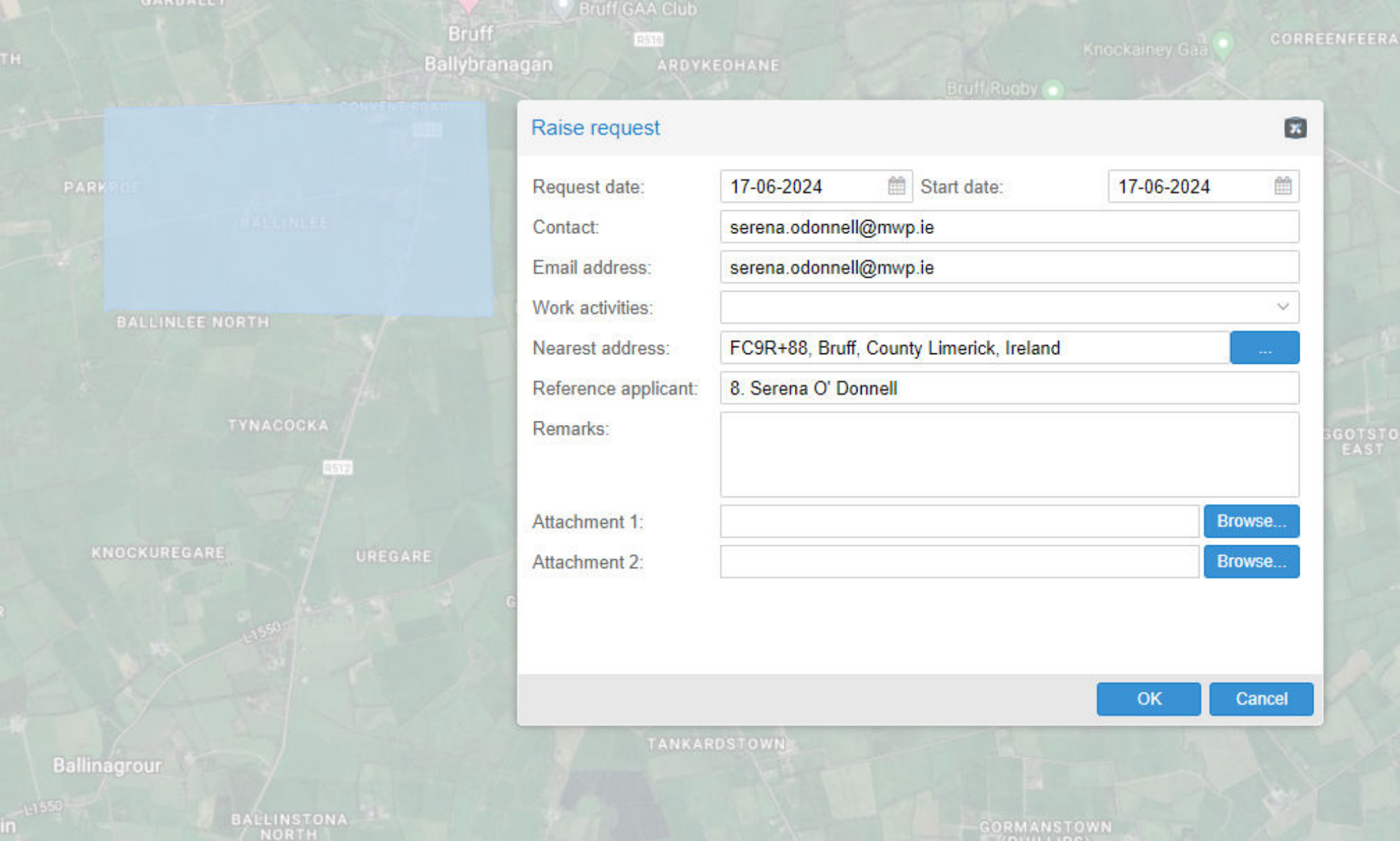
OK Cancel



Raise request

Request date:	17-06-2024	Start date:	17-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	FC5R+X8, Bruff, County Limerick, Ireland ...		
Reference applicant:	7. Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

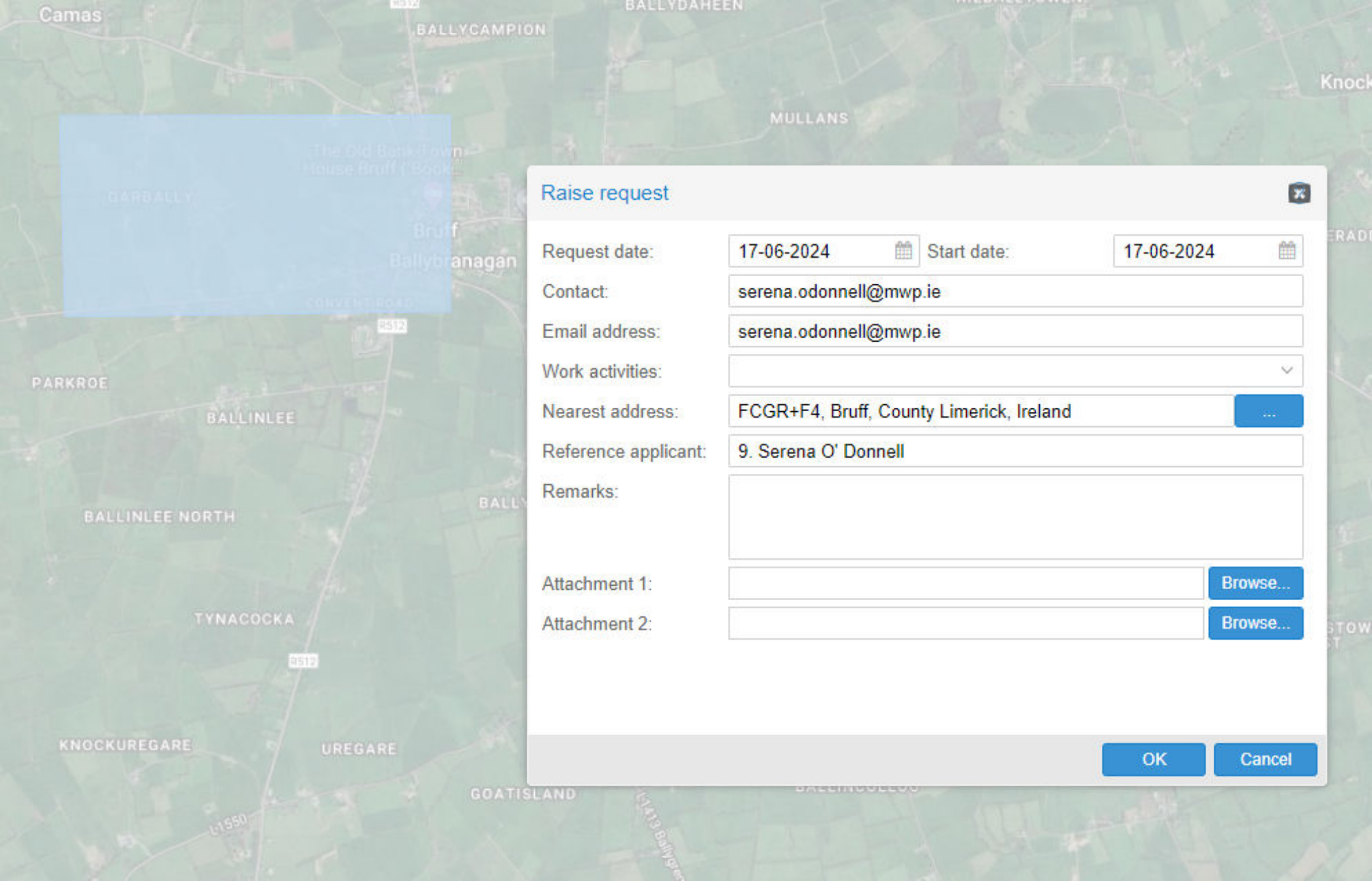
OK Cancel



Raise request

Request date:	17-06-2024	Start date:	17-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	FC9R+88, Bruff, County Limerick, Ireland ...		
Reference applicant:	8. Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

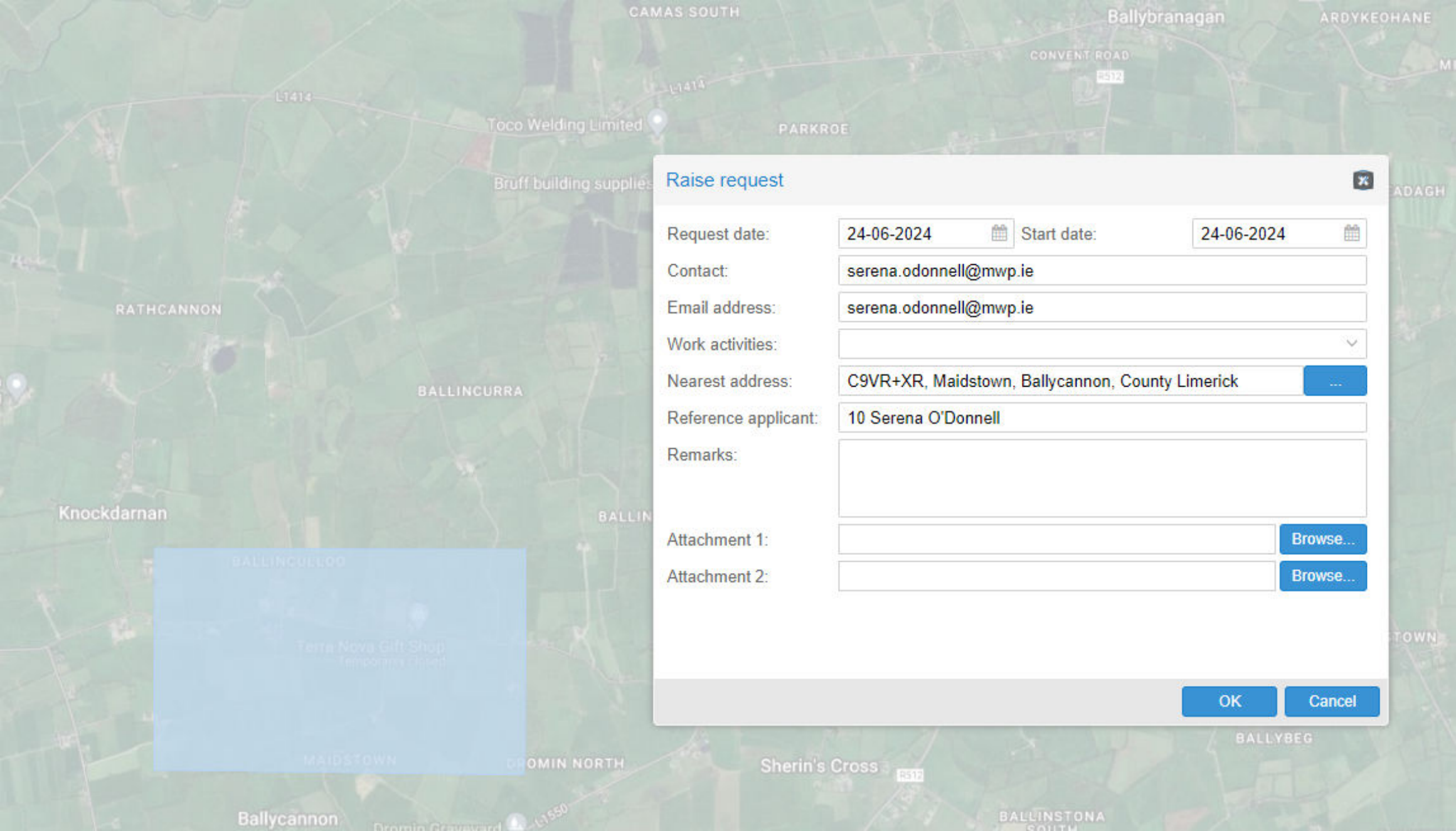
OK Cancel



Raise request

Request date:	17-06-2024	Start date:	17-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	FCGR+F4, Bruff, County Limerick, Ireland ...		
Reference applicant:	9. Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

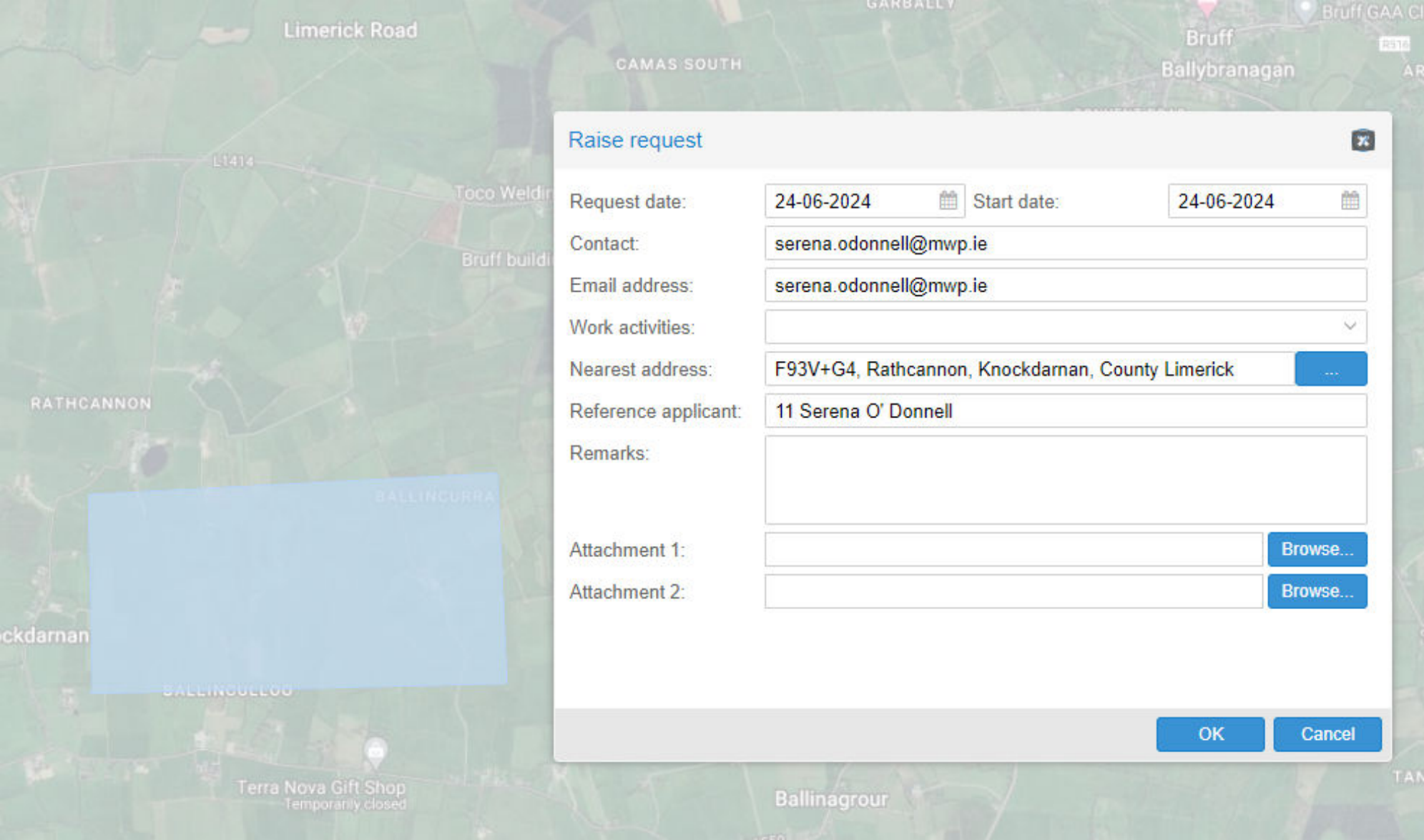
OK Cancel



Raise request

Request date:	24-06-2024	Start date:	24-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	C9VR+XR, Maidstown, Ballycannon, County Limerick ...		
Reference applicant:	10 Serena O'Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

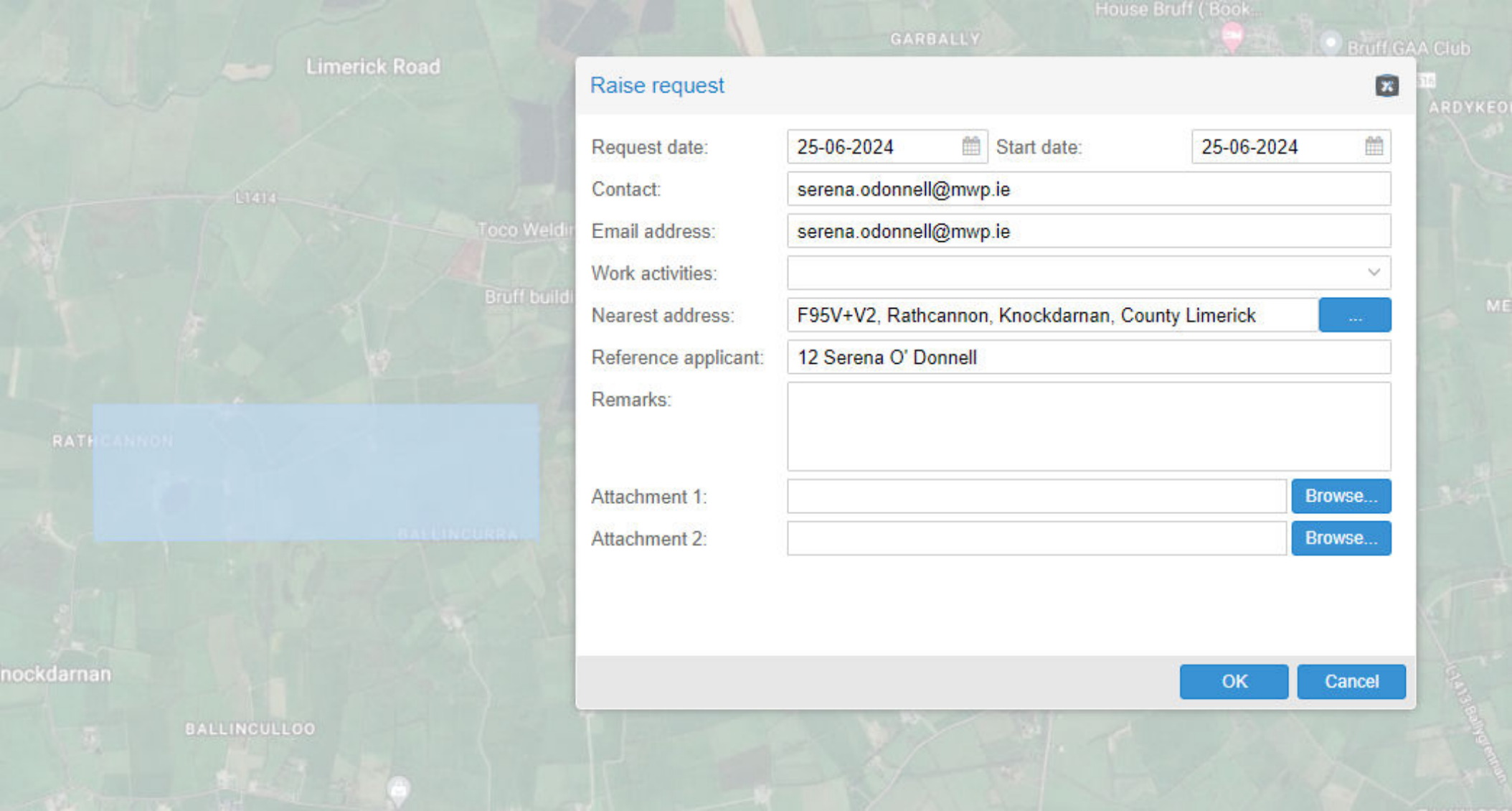
OK Cancel



Raise request

Request date:	24-06-2024	Start date:	24-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	F93V+G4, Rathcannon, Knockdarnan, County Limerick ...		
Reference applicant:	11 Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

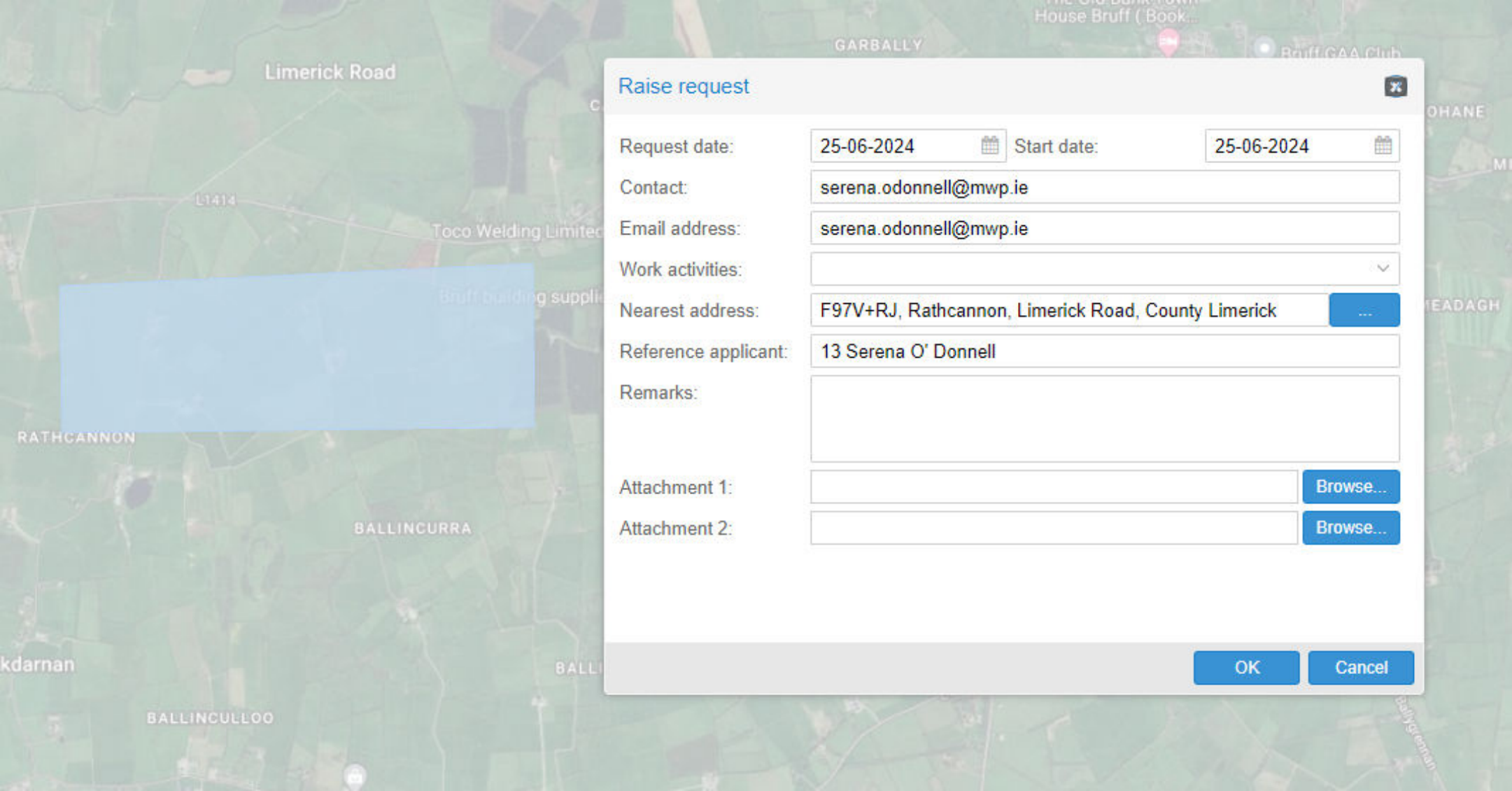
OK Cancel



Raise request

Request date:	25-06-2024	Start date:	25-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	F95V+V2, Rathcannon, Knockdarnan, County Limerick ...		
Reference applicant:	12 Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

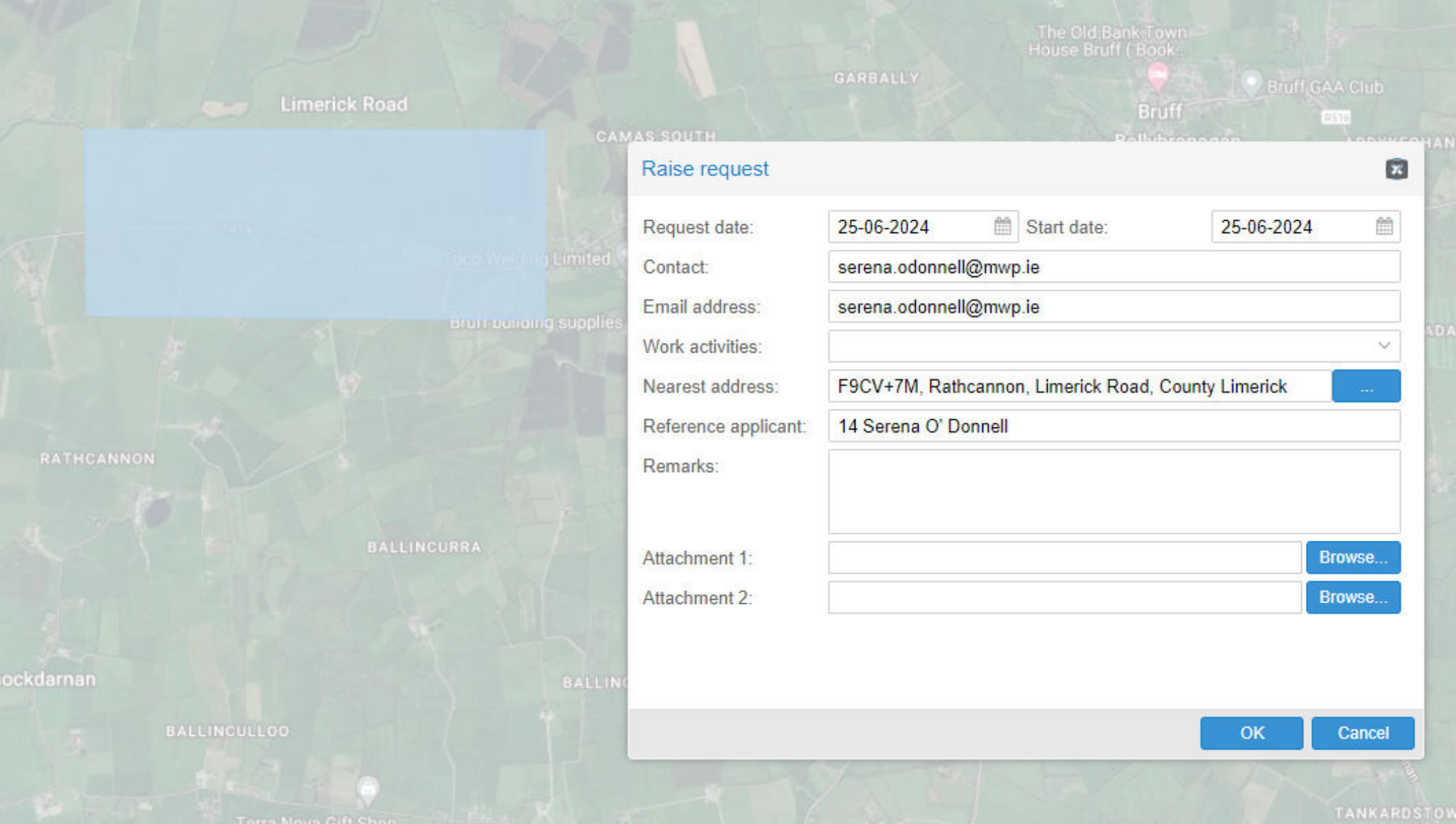
OK Cancel



Raise request

Request date:	25-06-2024	Start date:	25-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	F97V+RJ, Rathcannon, Limerick Road, County Limerick ...		
Reference applicant:	13 Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

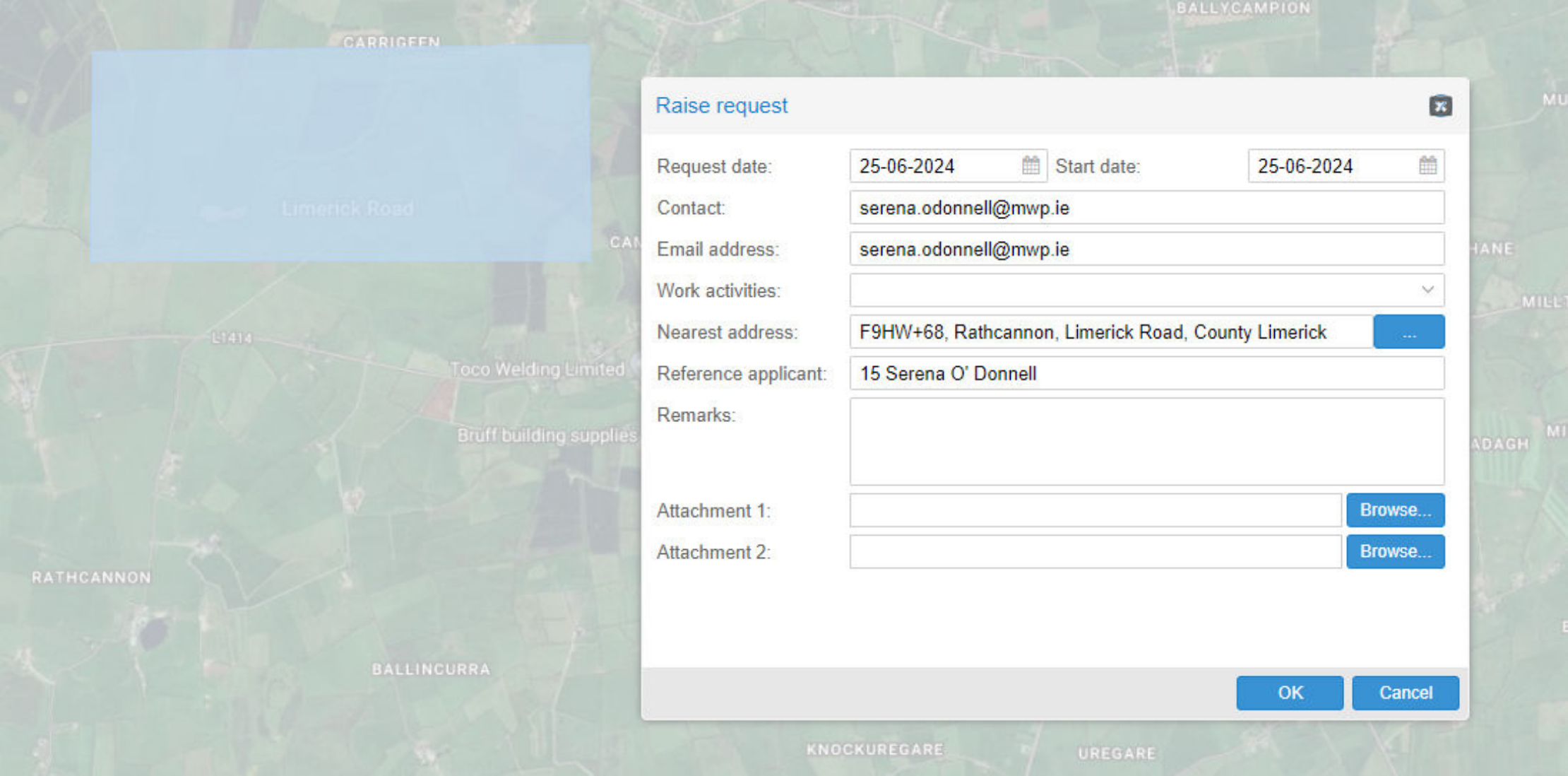
OK Cancel



Raise request

Request date:	25-06-2024	Start date:	25-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	F9CV+7M, Rathcannon, Limerick Road, County Limerick ...		
Reference applicant:	14 Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

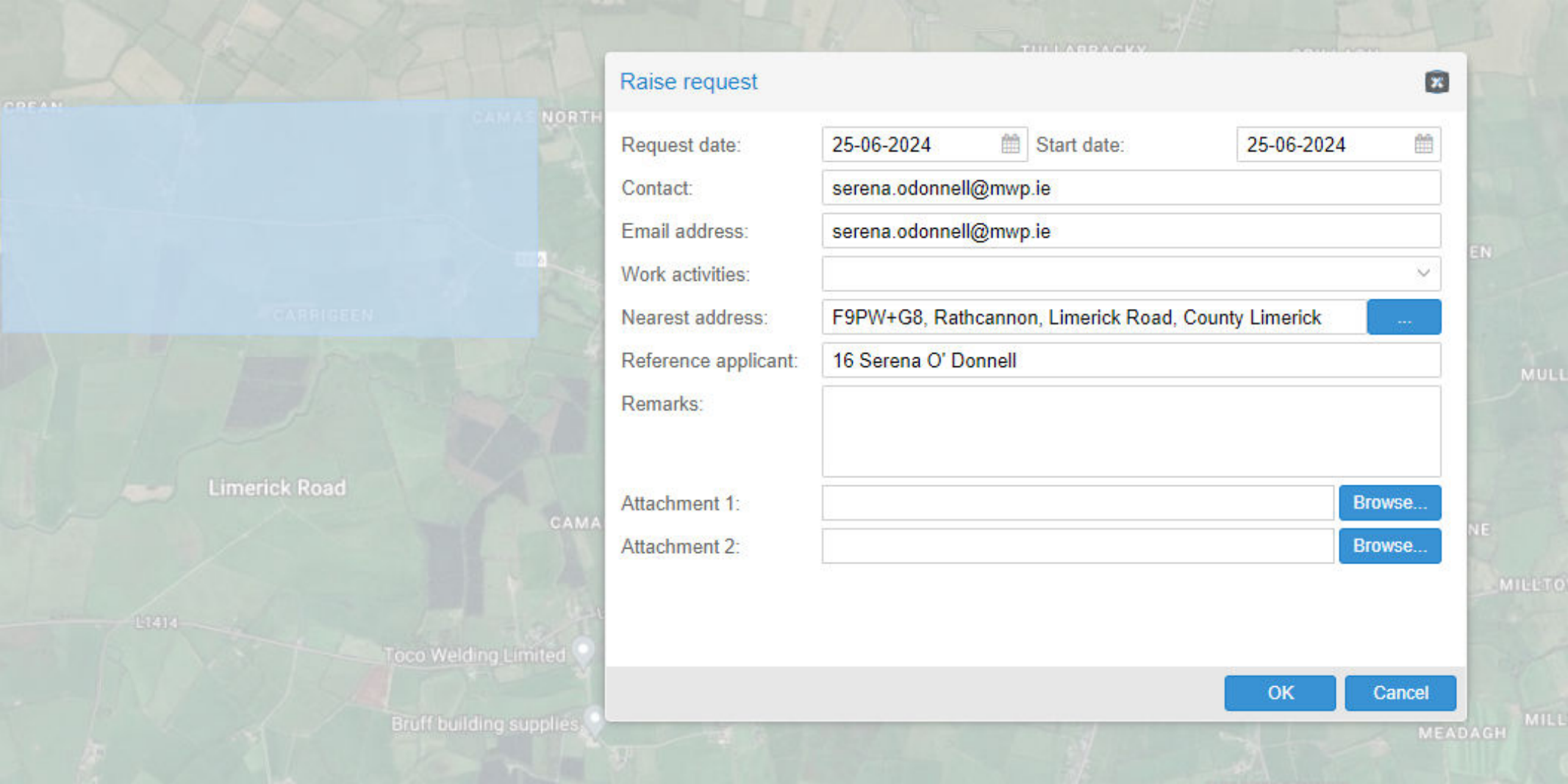
OK Cancel



Raise request

Request date:	25-06-2024	Start date:	25-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	F9HW+68, Rathcannon, Limerick Road, County Limerick ...		
Reference applicant:	15 Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

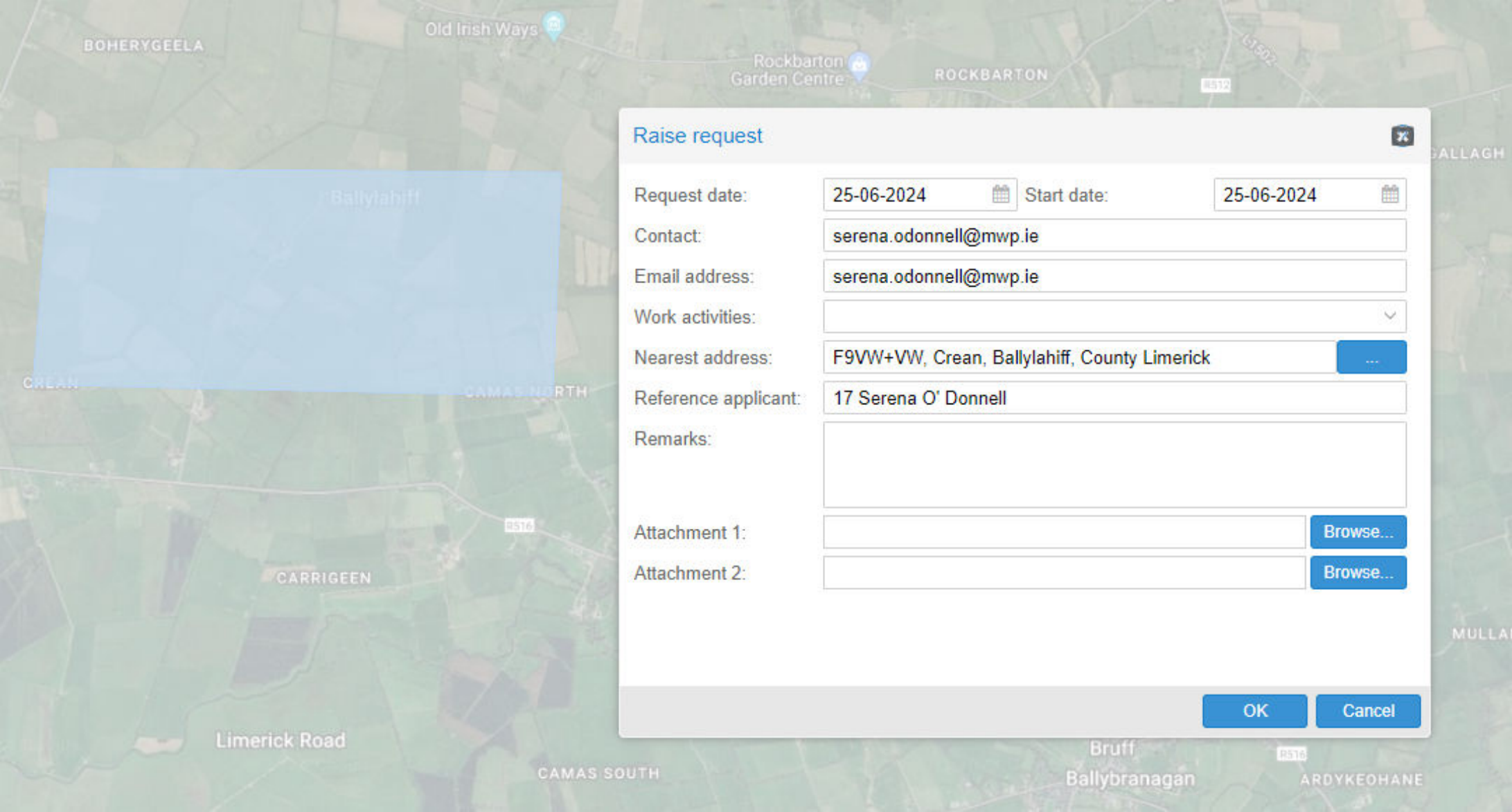
OK Cancel



Raise request

Request date:	25-06-2024	Start date:	25-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	F9PW+G8, Rathcannon, Limerick Road, County Limerick ...		
Reference applicant:	16 Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

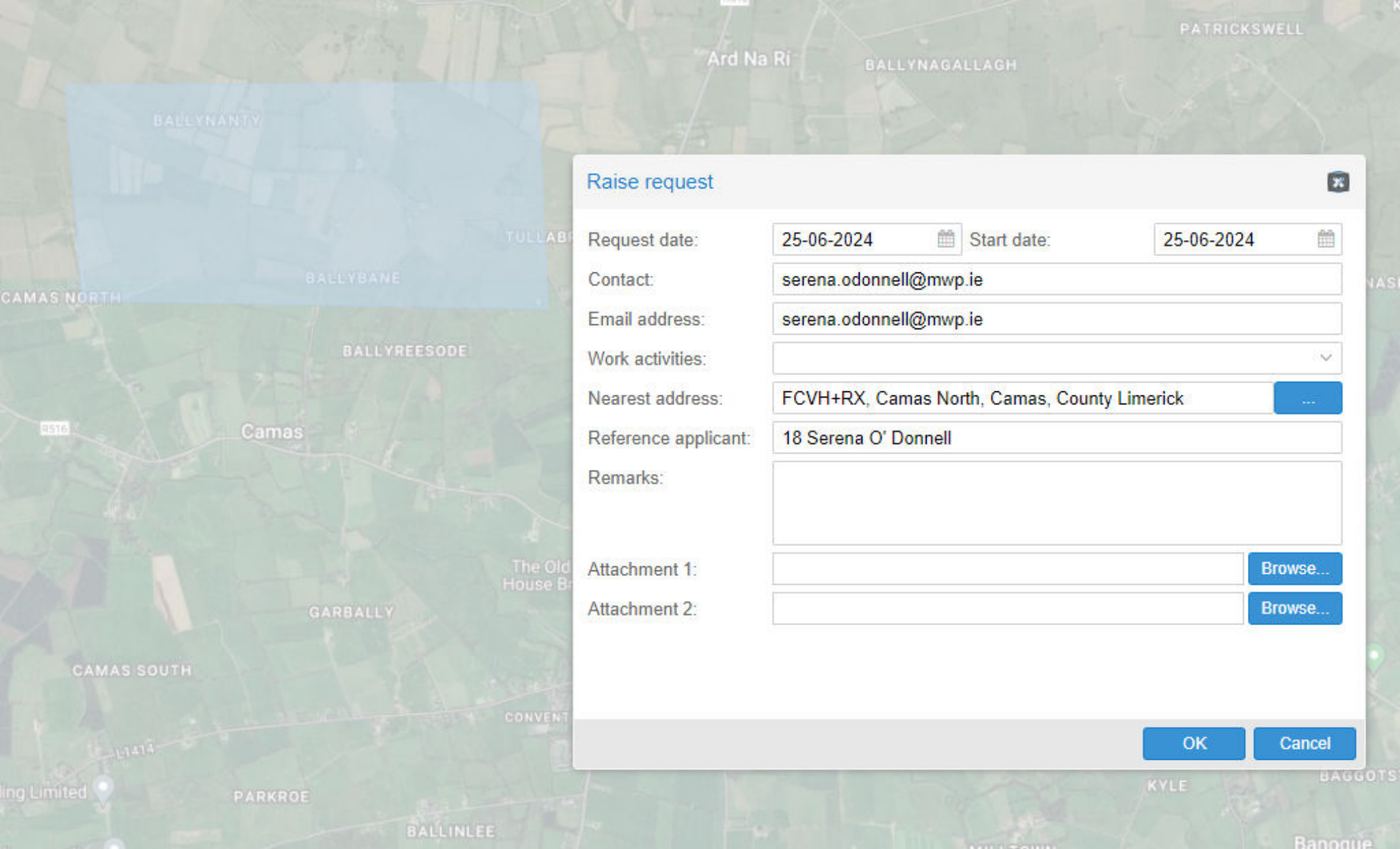
OK Cancel



Raise request

Request date:	25-06-2024	Start date:	25-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	F9VW+VW, Crean, Ballylahiff, County Limerick ...		
Reference applicant:	17 Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

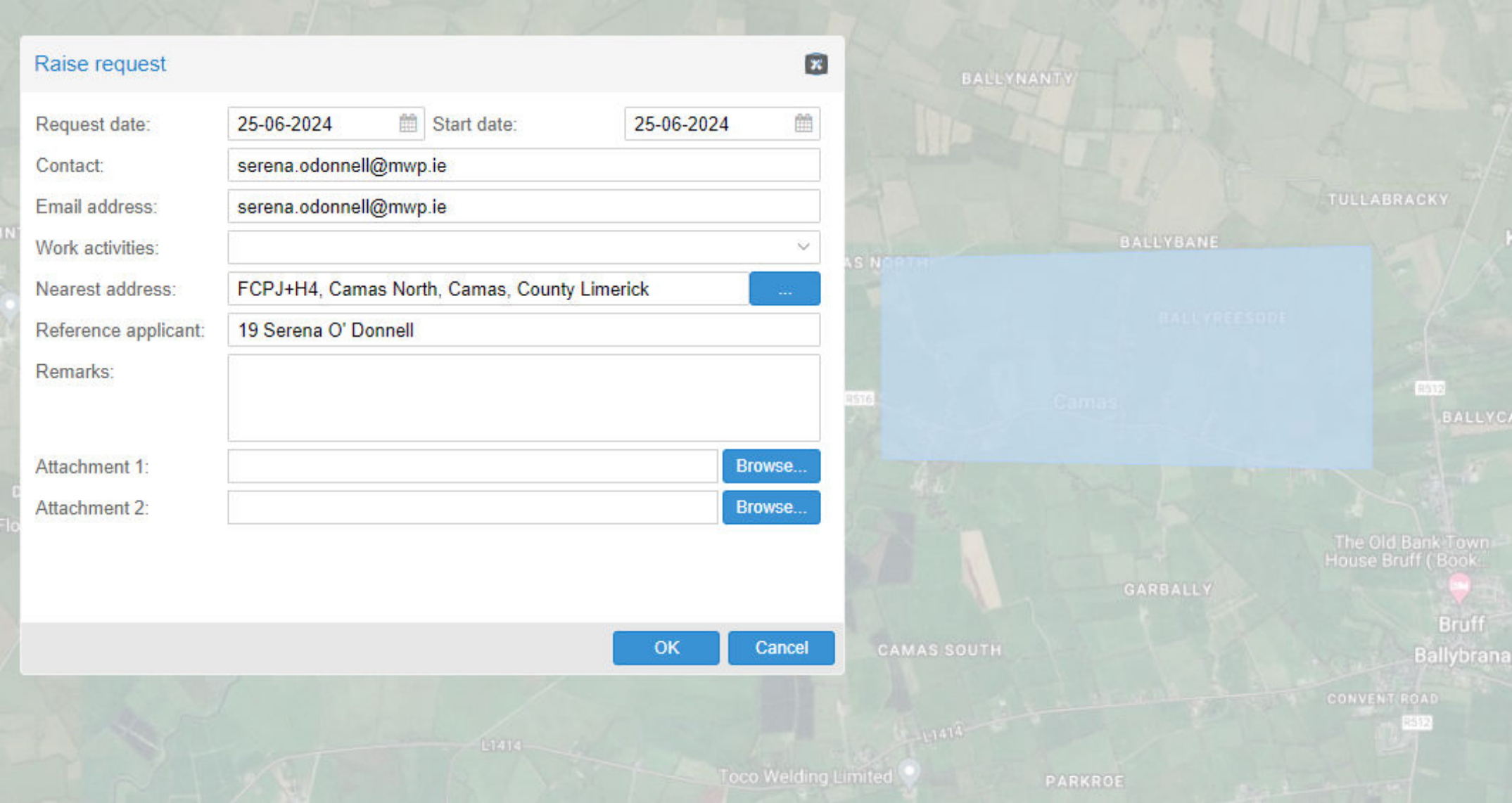
OK Cancel



Raise request

Request date:	25-06-2024	Start date:	25-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	FCVH+RX, Camas North, Camas, County Limerick ...		
Reference applicant:	18 Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

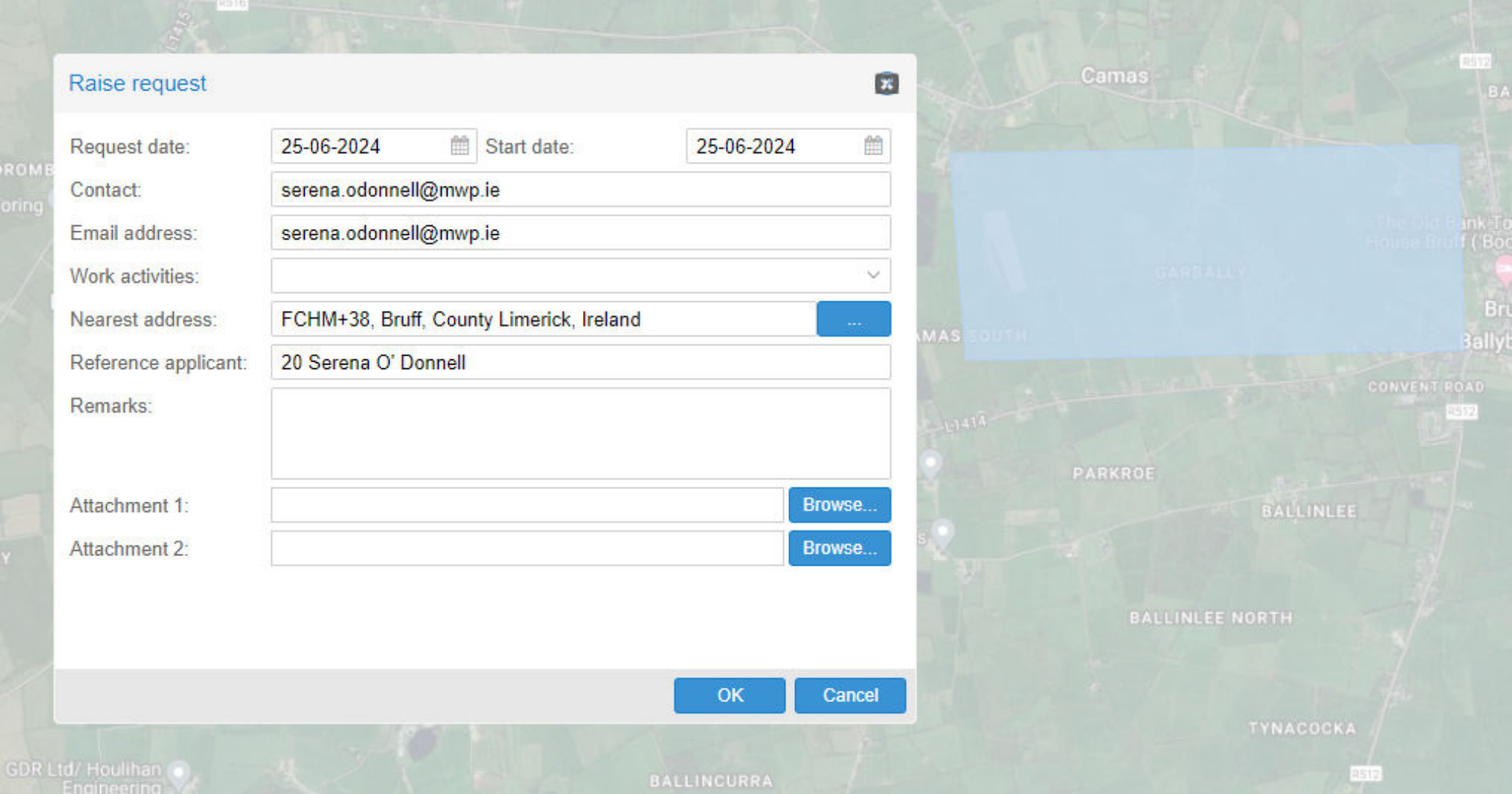
OK Cancel



Raise request

Request date:	25-06-2024	Start date:	25-06-2024
Contact:	serena.odonnell@mwp.ie		
Email address:	serena.odonnell@mwp.ie		
Work activities:			
Nearest address:	FCPJ+H4, Camas North, Camas, County Limerick ...		
Reference applicant:	19 Serena O' Donnell		
Remarks:			
Attachment 1:	Browse...		
Attachment 2:	Browse...		

OK Cancel


Raise request
Request date:
25-06-2024
Start date:
25-06-2024
Contact:
serena.odonnell@mwp.ie
Email address:
serena.odonnell@mwp.ie
Work activities:
Nearest address:
FCHM+38, Bruff, County Limerick, Ireland
...
Reference applicant:
20 Serena O' Donnell
Remarks:
Attachment 1:
Browse...
Attachment 2:
Browse...
OK
Cancel
Camas
GARBALLY
CONVENT ROAD
PARKROE
BALLINLEE
BALLINLEE NORTH
TYNACOCKA
BALLINCURRA

From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT033925, Reference: 1. Serena O'Donnell
Sent:	17/06/2024 16:20:36

BT Services for: FCFR+Q6, Bruff, County Limerick, Ireland

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

Please request all future enquiries via self-service www.ctw.nl web.

Kind Regards,
GIS Team

BT Ireland | Block C, Dundrum Business Park, Dublin 14. | E: gis.ireland@bt.com

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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT033926, Reference: 2. Serena O' Donnell
Sent:	17/06/2024 16:20:37

BT Services for: FCF8+82, Rathcannon, Limerick Road, County Limerick

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

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Kind Regards,
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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT033927, Reference: 3. Serena O'Donnell
Sent:	17/06/2024 16:20:37

BT Services for: FC78+JF, Bruff, County Limerick, Ireland

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

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Kind Regards,
GIS Team

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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT033928, Reference: 4. Serena O' Donnell
Sent:	17/06/2024 16:36:10

BT Services for: FC48+VH, Ballinstona North, Ballinagrour, County Limerick

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

Please request all future enquiries via self-service www.ctw.nl web.

Kind Regards,
GIS Team

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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT033929, Reference: 5. Serena O' Donnell
Sent:	17/06/2024 16:36:16

BT Services for: CCX8+FG, Ballingayrour, Dromin, County Limerick

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

Please request all future enquiries via self-service www.ctw.nl web.

Kind Regards,
GIS Team

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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT033930, Reference: 6. Serena O' Donnell
Sent:	17/06/2024 16:36:07

BT Services for: FC2R+Q6, Ballinstona North, Ballinagrour, County Limerick

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

Please request all future enquiries via self-service www.ctw.nl web.

Kind Regards,
GIS Team



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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT033932, Reference: 7. Serena O' Donnell
Sent:	17/06/2024 16:36:02

BT Services for: FC5R+X8, Bruff, County Limerick, Ireland

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

Please request all future enquiries via self-service www.ctw.nl web.

Kind Regards,
GIS Team



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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT033933, Reference: 8. Serena O' Donnell
Sent:	17/06/2024 16:35:57

BT Services for: FC9R+88, Bruff, County Limerick, Ireland

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

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Kind Regards,
GIS Team

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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT033934, Reference: 9. Serena O' Donnell
Sent:	17/06/2024 16:36:00

BT Services for: FCGR+F4, Bruff, County Limerick, Ireland

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

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Kind Regards,
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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT034048, Reference: 10 Serena O'Donnell
Sent:	24/06/2024 09:35:39

BT Services for: C9VR+XR, Maidstown, Ballycannon, County Limerick

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

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Kind Regards,
GIS Team

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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT034049, Reference: 11 Serena O' Donnell
Sent:	24/06/2024 09:50:53

BT Services for: F93V+G4, Rathcannon, Knockdarnan, County Limerick

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

Please request all future enquiries via self-service www.ctw.nl web.

Kind Regards,
GIS Team

BT Ireland | Block C, Dundrum Business Park, Dublin 14. | E: gis.ireland@bt.com

BT Ireland, trading in Republic of Ireland as BT Communications Ireland Limited. Registered office: Grand Canal Plaza, Upper Grand Canal Street, Dublin 4 (Registered in Ireland no 141524) and trading in Northern Ireland as British Telecommunications plc. Registered office: 81 Newgate Street London EC1A 7AJ (Registered in England no: 1800000), both being affiliates of BT Group plc.

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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT034073, Reference: 12 Serena O' Donnell
Sent:	25/06/2024 08:50:40

BT Services for: F95V+V2, Rathcannon, Knockdarnan, County Limerick

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

Please request all future enquiries via self-service www.ctw.nl web.

Kind Regards,
GIS Team

BT Ireland | Block C, Dundrum Business Park, Dublin 14. | E: gis.ireland@bt.com

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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT034074, Reference: 13 Serena O' Donnell
Sent:	25/06/2024 08:50:37

BT Services for: F97V+RJ, Rathcannon, Limerick Road, County Limerick

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

Please request all future enquiries via self-service www.ctw.nl web.

Kind Regards,
GIS Team

BT Ireland | Block C, Dundrum Business Park, Dublin 14. | E: gis.ireland@bt.com

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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT034075, Reference: 14 Serena O' Donnell
Sent:	25/06/2024 08:50:37

BT Services for: F9CV+7M, Rathcannon, Limerick Road, County Limerick

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

Please request all future enquiries via self-service www.ctw.nl web.

Kind Regards,
GIS Team

BT Ireland | Block C, Dundrum Business Park, Dublin 14. | E: gis.ireland@bt.com

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Powered by SpeerIT

From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT034076, Reference: 15 Serena O' Donnell
Sent:	25/06/2024 09:06:01

BT Services for: F9HW+68, Rathcannon, Limerick Road, County Limerick

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

Please request all future enquiries via self-service www.ctw.nl web.

Kind Regards,
GIS Team

BT Ireland | Block C, Dundrum Business Park, Dublin 14. | E: gis.ireland@bt.com

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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT034077, Reference: 16 Serena O' Donnell
Sent:	25/06/2024 09:06:02

BT Services for: F9PW+G8, Rathcannon, Limerick Road, County Limerick

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

Please request all future enquiries via self-service www.ctw.nl web.

Kind Regards,
GIS Team

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Think before you print! Consider the environment before printing this email!

Powered by SpeerIT

From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT034078, Reference: 17 Serena O' Donnell
Sent:	25/06/2024 09:05:56

BT Services for: F9VW+VW, Crean, Ballylahiff, County Limerick

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

Please request all future enquiries via self-service www.ctw.nl web.

Kind Regards,
GIS Team

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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT034079, Reference: 18 Serena O' Donnell
Sent:	25/06/2024 09:05:56

BT Services for: FCVH+RX, Camas North, Camas, County Limerick

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

Please request all future enquiries via self-service www.ctw.nl web.

Kind Regards,
GIS Team

BT Ireland | Block C, Dundrum Business Park, Dublin 14. | E: gis.ireland@bt.com

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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT034080, Reference: 19 Serena O' Donnell
Sent:	25/06/2024 09:21:20

BT Services for: FCPJ+H4, Camas North, Camas, County Limerick

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

Please request all future enquiries via self-service www.ctw.nl web.

Kind Regards,
GIS Team



BT Ireland | Block C, Dundrum Business Park, Dublin 14. | E: gis.ireland@bt.com

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From:	Klicon BT Ireland
To:	Serena O'Donnell
Subject:	Request: BT034081, Reference: 20 Serena O' Donnell
Sent:	25/06/2024 09:21:16

BT Services for: FCHM+38, Bruff, County Limerick, Ireland

Thank you for your enquiry regarding our network. There is no BT Ireland network at this location according to our records. This information is believed to be correct. There may also be items of BT Ireland network of which no record is held.

It is recommended that on the day of the site setup you contact the BT Ireland Network Management Centre (NMC)(014326555) before you break the ground surface.

Please note that your company will be liable for the full cost of repairs and services lost if any damage is caused to our network during works being carried out.

Please request all future enquiries via self-service www.ctw.nl web.

Kind Regards,
GIS Team

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Appendix 3

Eir Email Correspondence and Maps

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 3d19f828-1c18-4beb-9e82-88b35ba163ab, issued on 06/11/24 16:28.
Attachments:	Supplementary Information.pdf;emap.pdf;
Sent:	06/11/2024 16:29:00

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 3d19f828-1c18-4beb-9e82-88b35ba163ab

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 6b118eb6-0bf4-4fbd-851a-8fcdf58b6252, issued on 06/11/24 16:26.
Attachments:	emap.pdf;Supplementary Information.pdf;
Sent:	06/11/2024 16:26:22

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 6b118eb6-0bf4-4fbd-851a-8fcdf58b6252

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 6d90c4bf-b883-4239-8ddf-9118cd52eb4c, issued on 06/11/24 16:27.
Attachments:	emap.pdf;Supplementary Information.pdf;
Sent:	06/11/2024 16:28:03

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 6d90c4bf-b883-4239-8ddf-9118cd52eb4c

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 6d9090e4-014d-48e8-a4a7-eea676c3857a, issued on 06/11/24 16:30.
Attachments:	Supplementary Information.pdf;emap.pdf;
Sent:	06/11/2024 16:30:27

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 6d9090e4-014d-48e8-a4a7-eea676c3857a

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 7b76a839-a454-4340-8068-e5dae8299ff2, issued on 06/11/24 16:25.
Attachments:	Supplementary Information.pdf;emap.pdf;
Sent:	06/11/2024 16:26:11

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 7b76a839-a454-4340-8068-e5dae8299ff2

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 7d75f10b-4b9a-4943-9418-23abe1387680, issued on 06/11/24 16:23.
Attachments:	emap.pdf;Supplementary Information.pdf;
Sent:	06/11/2024 16:23:48

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 7d75f10b-4b9a-4943-9418-23abe1387680

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 7f634c54-0b1c-49ac-9d7c-e9a218bd90ea, issued on 06/11/24 16:22.
Attachments:	Supplementary Information.pdf;emap.pdf;
Sent:	06/11/2024 16:22:32

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 7f634c54-0b1c-49ac-9d7c-e9a218bd90ea

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 9d85fcf7-a429-430b-94f0-f5746e201f0e, issued on 06/11/24 16:23.
Attachments:	emap.pdf;Supplementary Information.pdf;
Sent:	06/11/2024 16:23:31

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 9d85fcf7-a429-430b-94f0-f5746e201f0e

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 9f769641-2c0b-4732-a833-7b8239f8d16c, issued on 06/11/24 16:23.
Attachments:	Supplementary Information.pdf;emap.pdf;
Sent:	06/11/2024 16:23:15

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 9f769641-2c0b-4732-a833-7b8239f8d16c

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 27cf94d2-a5cb-4da4-b75a-325e0832f925, issued on 06/11/24 16:28.
Attachments:	emap.pdf;Supplementary Information.pdf;
Sent:	06/11/2024 16:28:48

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 27cf94d2-a5cb-4da4-b75a-325e0832f925

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 47df18d7-3178-4bd7-9068-1cd3b298453c, issued on 06/11/24 16:29.
Attachments:	emap.pdf;Supplementary Information.pdf;
Sent:	06/11/2024 16:30:00

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 47df18d7-3178-4bd7-9068-1cd3b298453c

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 51a49237-8bab-45d7-9b93-a9d5e7294c82, issued on 06/11/24 16:23.
Attachments:	emap.pdf;Supplementary Information.pdf;
Sent:	06/11/2024 16:24:02

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 51a49237-8bab-45d7-9b93-a9d5e7294c82

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 72d0e287-1de0-412c-b6fb-0f08263dbfdd, issued on 06/11/24 16:24.
Attachments:	emap.pdf;Supplementary Information.pdf;
Sent:	06/11/2024 16:25:02

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 72d0e287-1de0-412c-b6fb-0f08263dbfdd

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 76c1ad6b-37fa-4715-99a8-bf7a20476e8b, issued on 06/11/24 16:28.
Attachments:	Supplementary Information.pdf;emap.pdf;
Sent:	06/11/2024 16:28:38

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 76c1ad6b-37fa-4715-99a8-bf7a20476e8b

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 0167ec4a-83d8-4c2f-b8c5-69f5a6c386d9, issued on 06/11/24 16:29.
Attachments:	Supplementary Information.pdf;emap.pdf;
Sent:	06/11/2024 16:30:15

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 0167ec4a-83d8-4c2f-b8c5-69f5a6c386d9

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 501c32cf-8847-4ba2-90fb-8d269d592ded, issued on 06/11/24 16:22.
Attachments:	Supplementary Information.pdf;emap.pdf;
Sent:	06/11/2024 16:22:47

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 501c32cf-8847-4ba2-90fb-8d269d592ded

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 838c7eac-7e2b-4b30-9582-3a362b22cd44, issued on 06/11/24 16:30.
Attachments:	emap.pdf;Supplementary Information.pdf;
Sent:	06/11/2024 16:30:48

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 838c7eac-7e2b-4b30-9582-3a362b22cd44

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 1938f283-7ae9-4454-8b88-464f69bdb347, issued on 06/11/24 16:26.
Attachments:	Supplementary Information.pdf;emap.pdf;
Sent:	06/11/2024 16:26:33

Dear User,

Thank you for using the eMaps open eir Civil Engineering Infrastructure Service. Your requested open eir infrastructure information is attached as a PDF map.

Kind Regards,
eMaps open eir Civil Engineering Infrastructure Service.

Date:
Purpose:
Reference ID: 1938f283-7ae9-4454-8b88-464f69bdb347

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 4954bbfe-fe95-4846-90fe-989b8a66a999, issued on 06/11/24 16:30.
Attachments:	emap.pdf;Supplementary Information.pdf;
Sent:	06/11/2024 16:30:35

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Purpose:
Reference ID: 4954bbfe-fe95-4846-90fe-989b8a66a999

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 3843898d-7445-44a0-904d-04a64e34618d, issued on 06/11/24 16:23.
Attachments:	emap.pdf;Supplementary Information.pdf;
Sent:	06/11/2024 16:24:17

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Reference ID: 3843898d-7445-44a0-904d-04a64e34618d

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 25890572-b114-40ff-85d0-f27fb3b84785, issued on 06/11/24 16:24.
Attachments:	emap.pdf;Supplementary Information.pdf;
Sent:	06/11/2024 16:25:16

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Reference ID: 25890572-b114-40ff-85d0-f27fb3b84785

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request 69097355-3553-414c-93fc-85cde94793da, issued on 06/11/24 16:25.
Attachments:	emap.pdf;Supplementary Information.pdf;
Sent:	06/11/2024 16:25:51

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Reference ID: 69097355-3553-414c-93fc-85cde94793da

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request b15d5999-864f-4963-8b58-e71fe1127b92, issued on 06/11/24 16:21.
Attachments:	Supplementary Information.pdf;emap.pdf;
Sent:	06/11/2024 16:21:20

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Reference ID: b15d5999-864f-4963-8b58-e71fe1127b92

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request b39b94ec-e5c3-4ab9-a405-0931c4093251, issued on 06/11/24 16:28.
Attachments:	emap.pdf;Supplementary Information.pdf;
Sent:	06/11/2024 16:28:27

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Reference ID: b39b94ec-e5c3-4ab9-a405-0931c4093251

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request b5734ee6-f8bd-4e0c-84a9-d75acecc714f, issued on 06/11/24 16:27.
Attachments:	emap.pdf;Supplementary Information.pdf;
Sent:	06/11/2024 16:28:11

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From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request c2df40e4-4be2-464f-950a-f44fb282458c, issued on 06/11/24 16:30.
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Sent:	06/11/2024 16:31:04

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From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request c6edc643-79db-42d6-b59f-e7bef2589e9f, issued on 06/11/24 16:29.
Attachments:	Supplementary Information.pdf;emap.pdf;
Sent:	06/11/2024 16:29:20

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Reference ID: c6edc643-79db-42d6-b59f-e7bef2589e9f

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request c8d468c9-f620-434f-8e02-bccad864098f, issued on 06/11/24 16:24.
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From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request c3125b73-874d-4d67-8d62-1d30b90c10cb, issued on 06/11/24 16:24.
Attachments:	Supplementary Information.pdf;emap.pdf;
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From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request cc543bf2-c675-4db2-a28c-9c3f5696cb7b, issued on 06/11/24 16:25.
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Reference ID: cc543bf2-c675-4db2-a28c-9c3f5696cb7b

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request d122dcb9-dada-411f-82b2-d74aedcda582, issued on 06/11/24 16:21.
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Reference ID: d122dcb9-dada-411f-82b2-d74aedcda582

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request db9b02d4-7ffc-4b8b-9c8b-753967a443d0, issued on 06/11/24 16:20.
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From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
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From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
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From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
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From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request ebbd3164-7619-45c7-81cf-3149e296b36c, issued on 06/11/24 16:19.
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To:	Conor McLoughlin
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From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
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Attachments:	Supplementary Information.pdf;emap.pdf;
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Reference ID: f1481c15-ff8f-401a-bbf9-3a72c721b5d0

From:	eMaps-no-reply@openeir.ie
To:	Conor McLoughlin
Subject:	eMap CEI Request f1486cdf-87e6-47de-a73b-ec1410ffc612, issued on 06/11/24 16:22.
Attachments:	emap.pdf;Supplementary Information.pdf;
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To:	Conor McLoughlin
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To:	Conor McLoughlin
Subject:	eMap CEI Request fc4809b2-f0bf-4b63-92b7-85334993f7cf, issued on 06/11/24 16:26.
Attachments:	emap.pdf;Supplementary Information.pdf;
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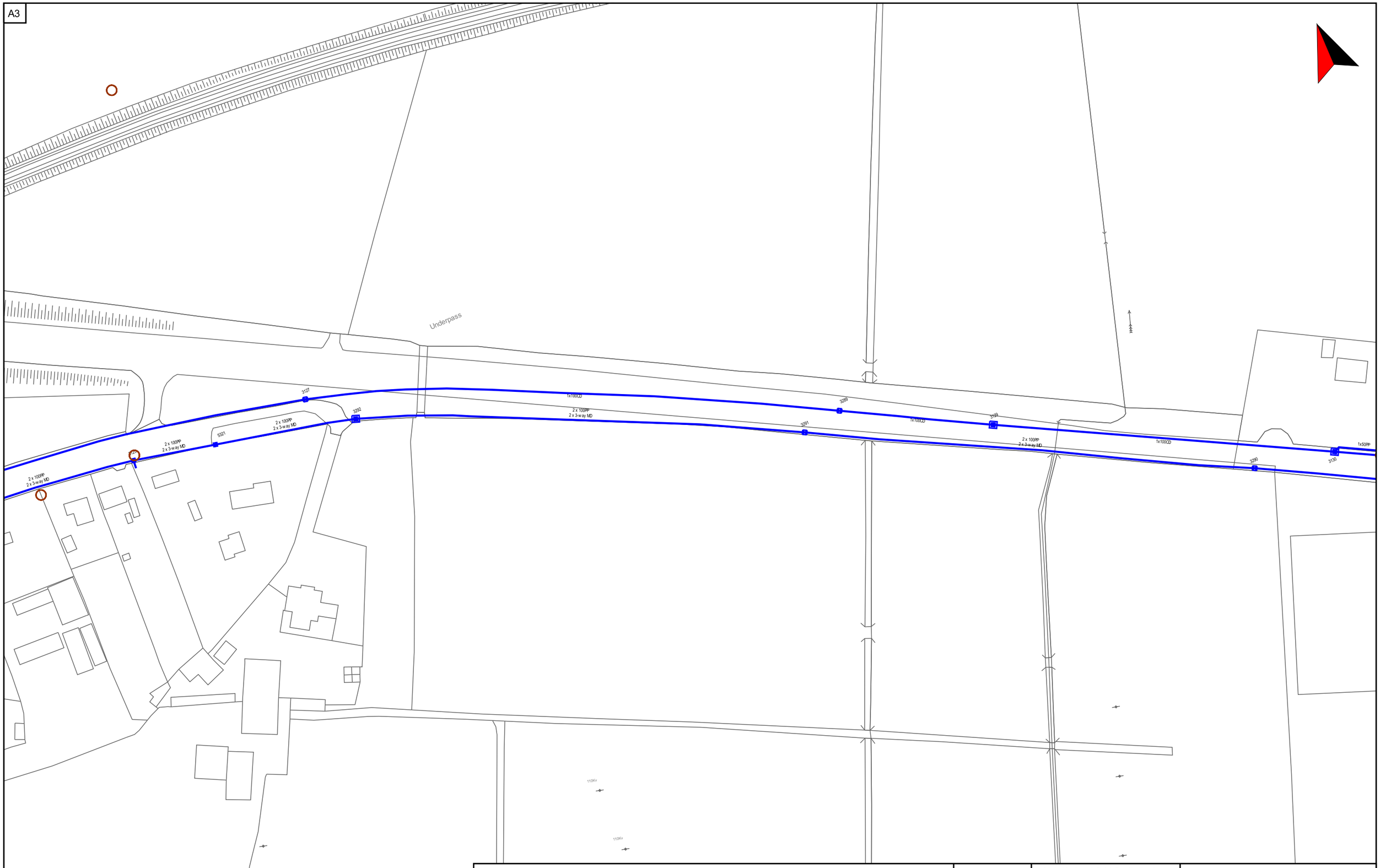
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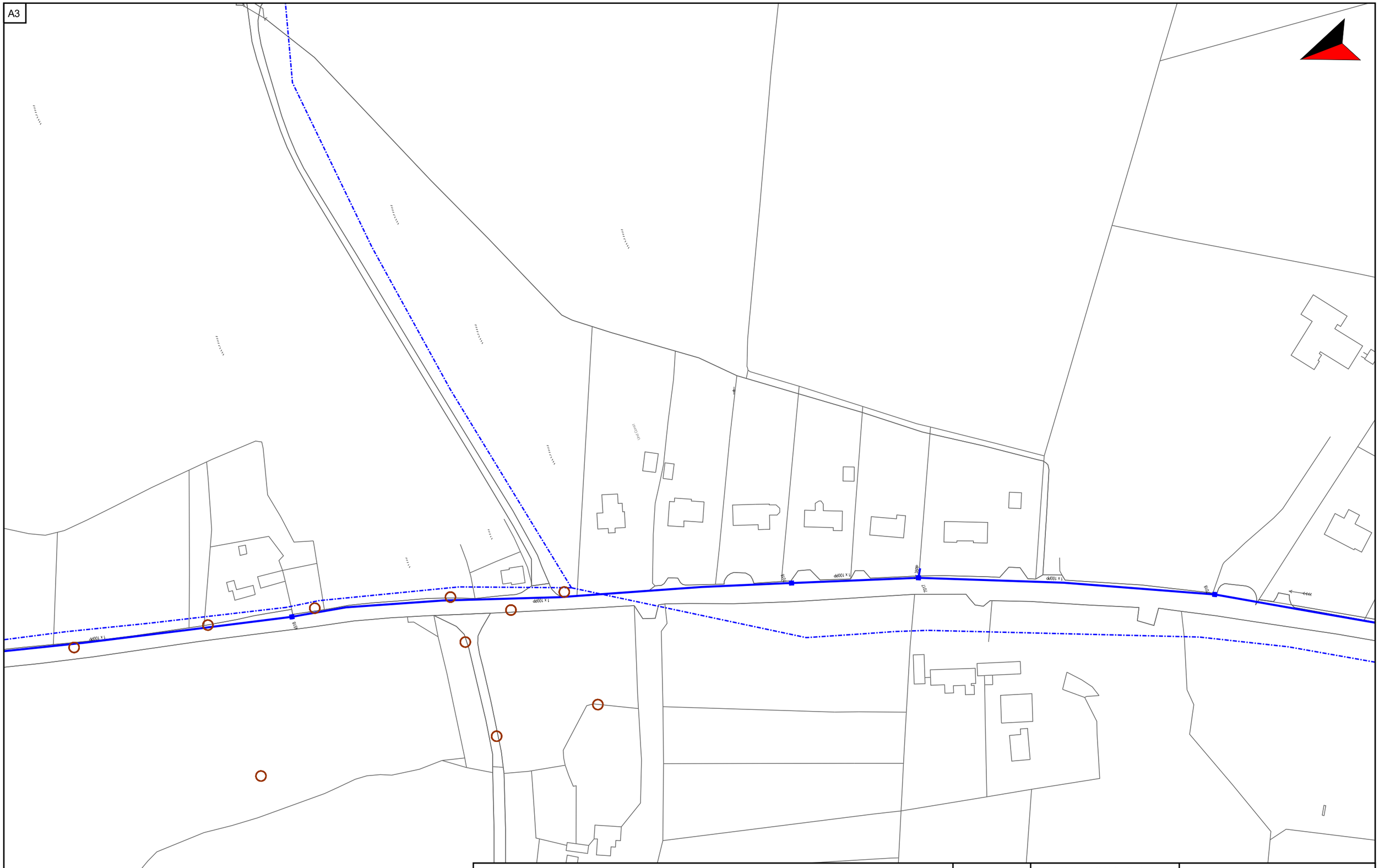
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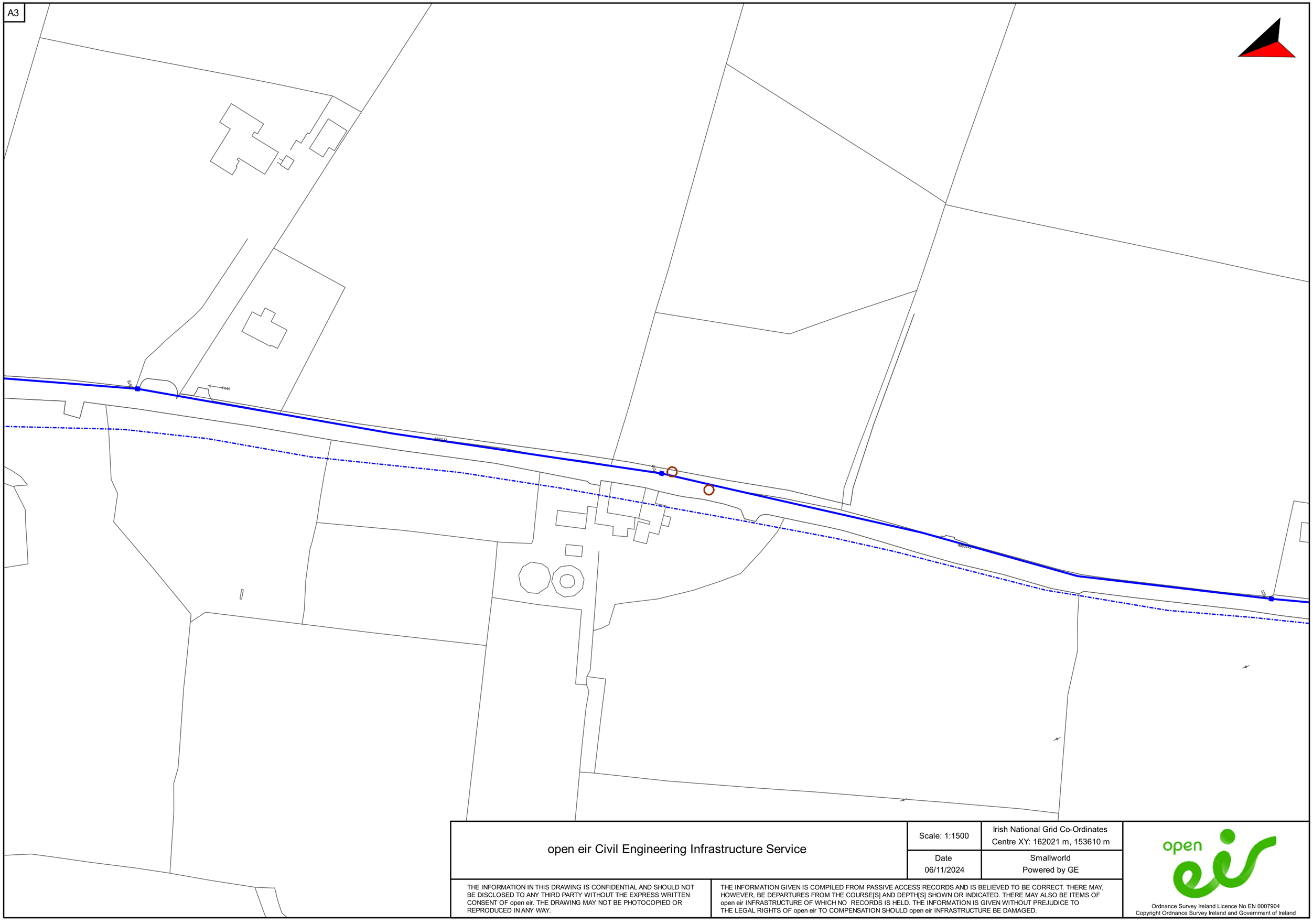
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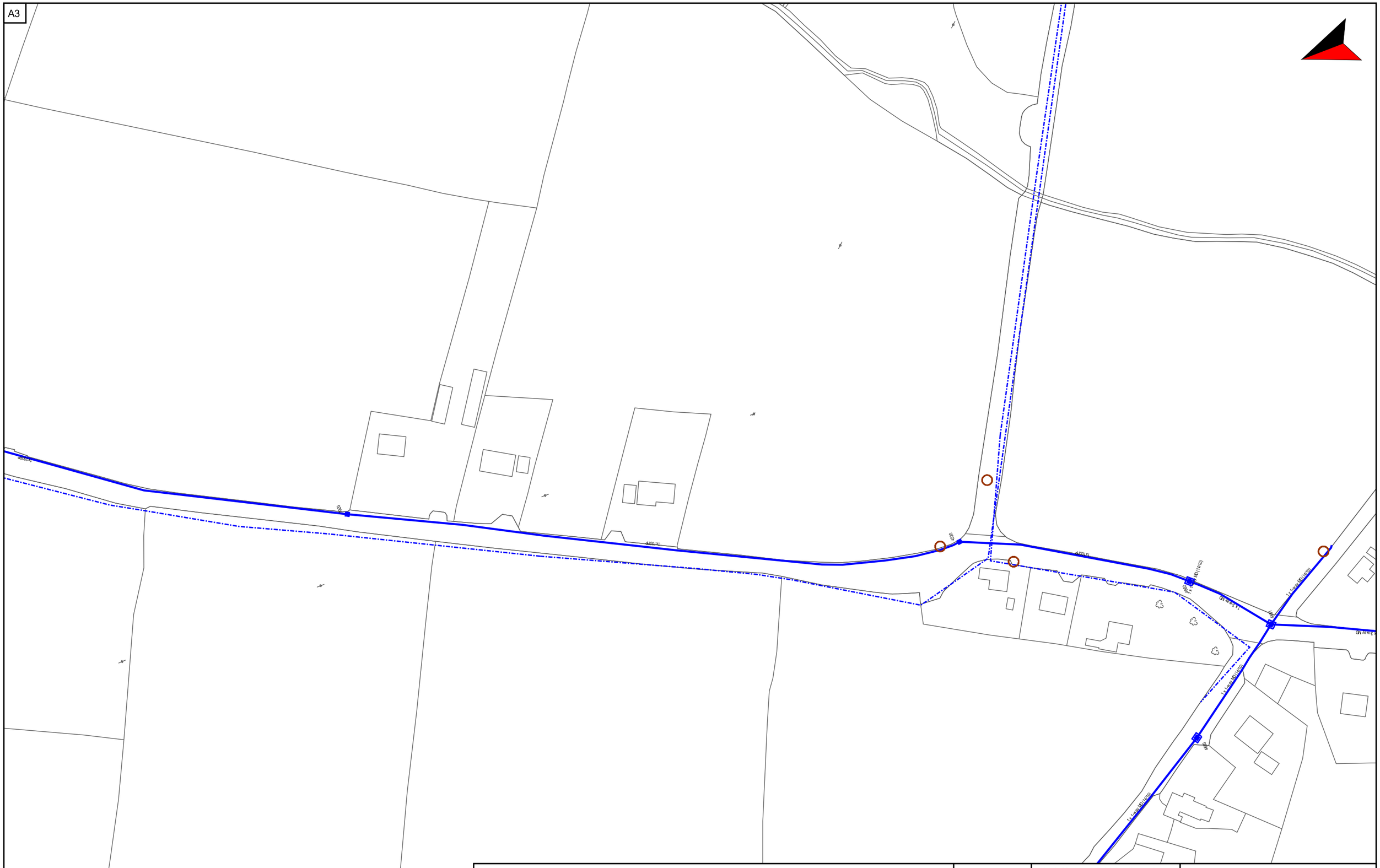
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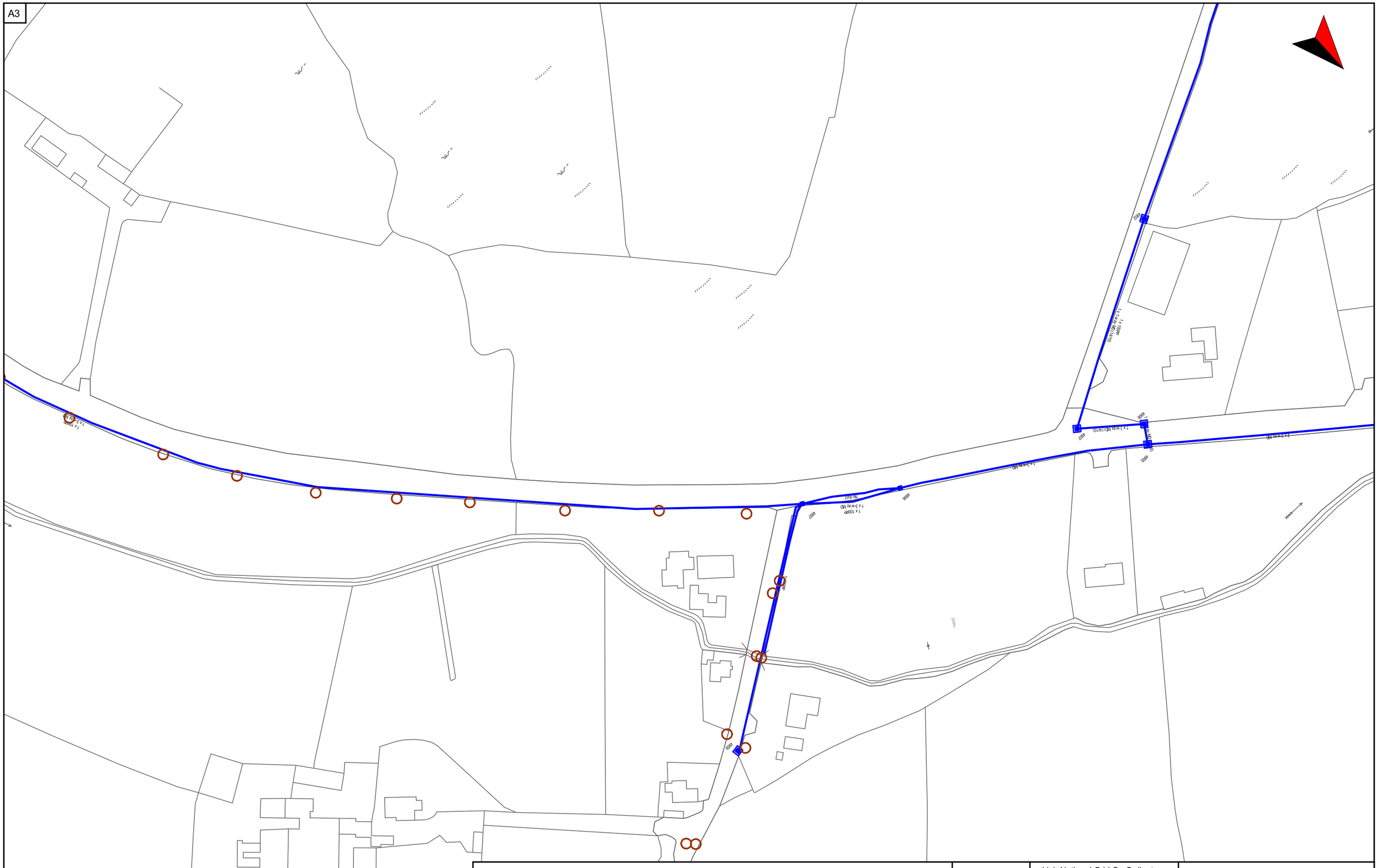
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1 x 100PP

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1 x 100PP
1 x 3-way MD

1504

1 x 3-way MD
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1503

1 x 3-way MD
1 x 100PP

1502

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Date
06/11/2024

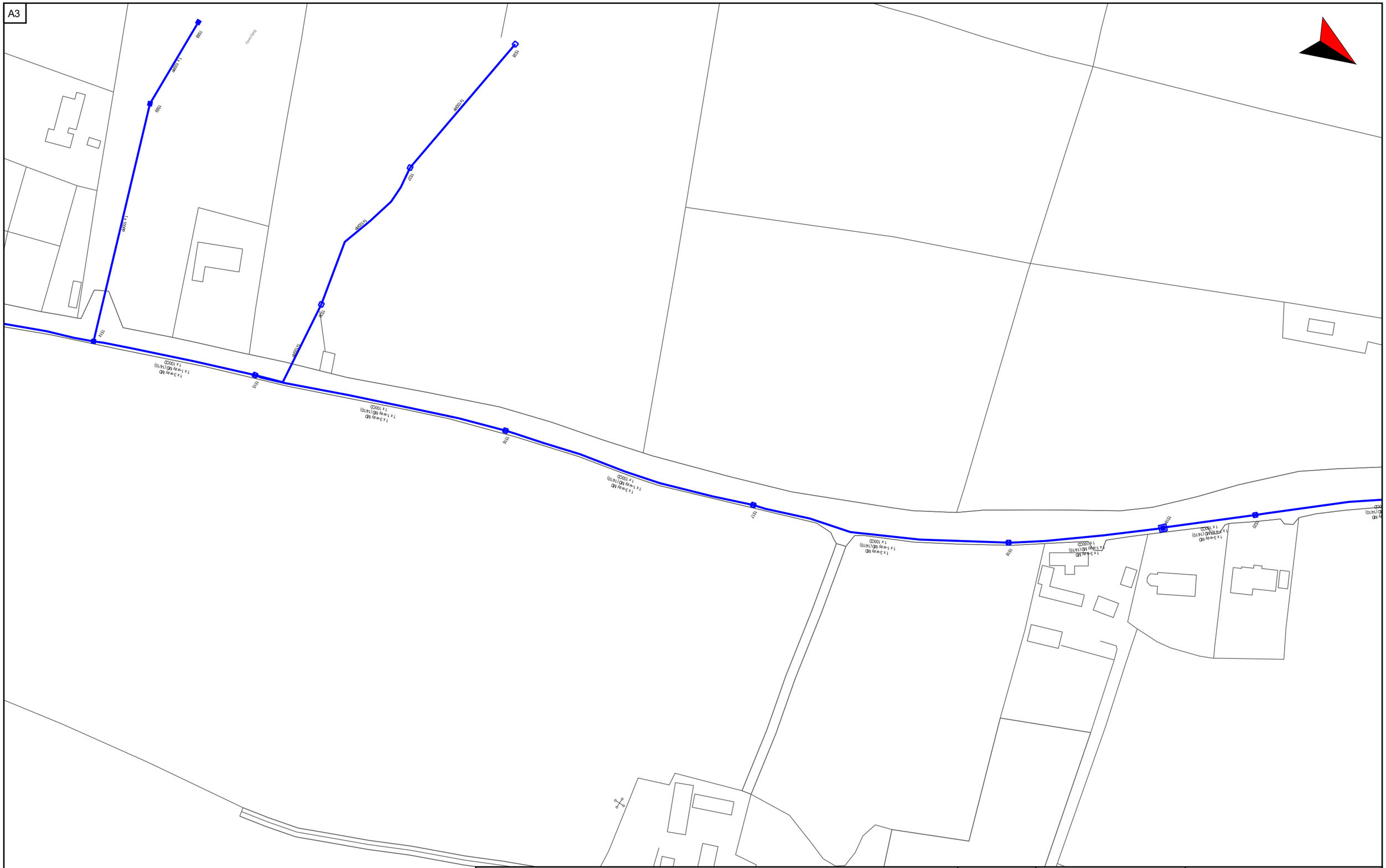
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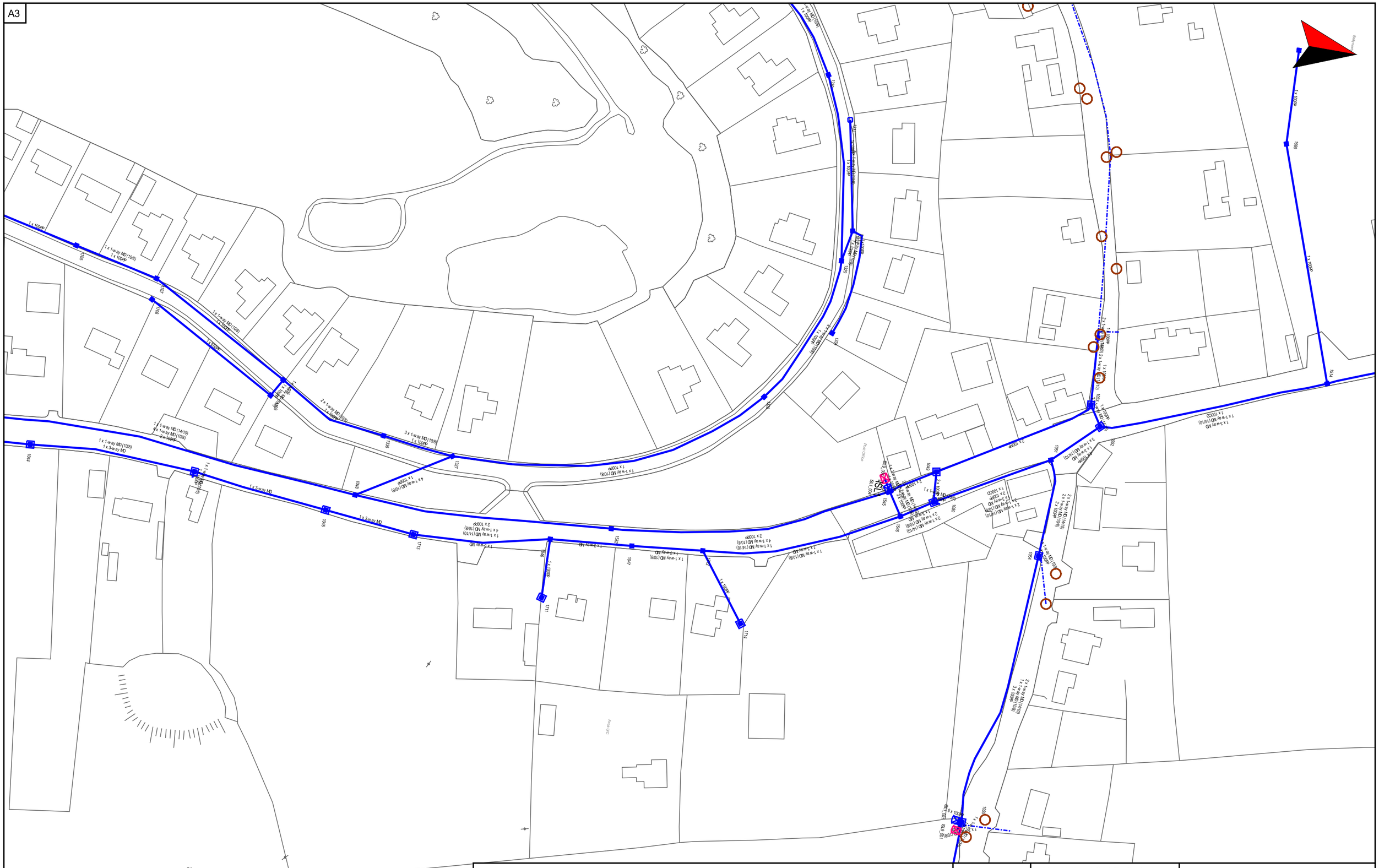
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A3


6551
1 x 100CD
6550
1 x 100CD
1514
1 x 3-way NID
1 x 1-way NID (14/10)
1 x 100CD
1515
1 x 3-way NID
1 x 1-way NID (14/10)
1 x 100CD
1516
1 x 3-way NID
1 x 1-way NID (14/10)
1 x 100CD

A3


1 x 100DP
1 x 1-way MD (10/8)
1 x 3-way MD
2 x 1-way MD (10/8)
3 x 1-way MD (10/8)
4 x 1-way MD (10/8)
1 x 1-way MD (14/10)
2 x 1-way MD (14/10)
2 x 100DP
4 x 100DP
1 x 150DP
1 x 200DP
1 x 250DP
1 x 300DP
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A3



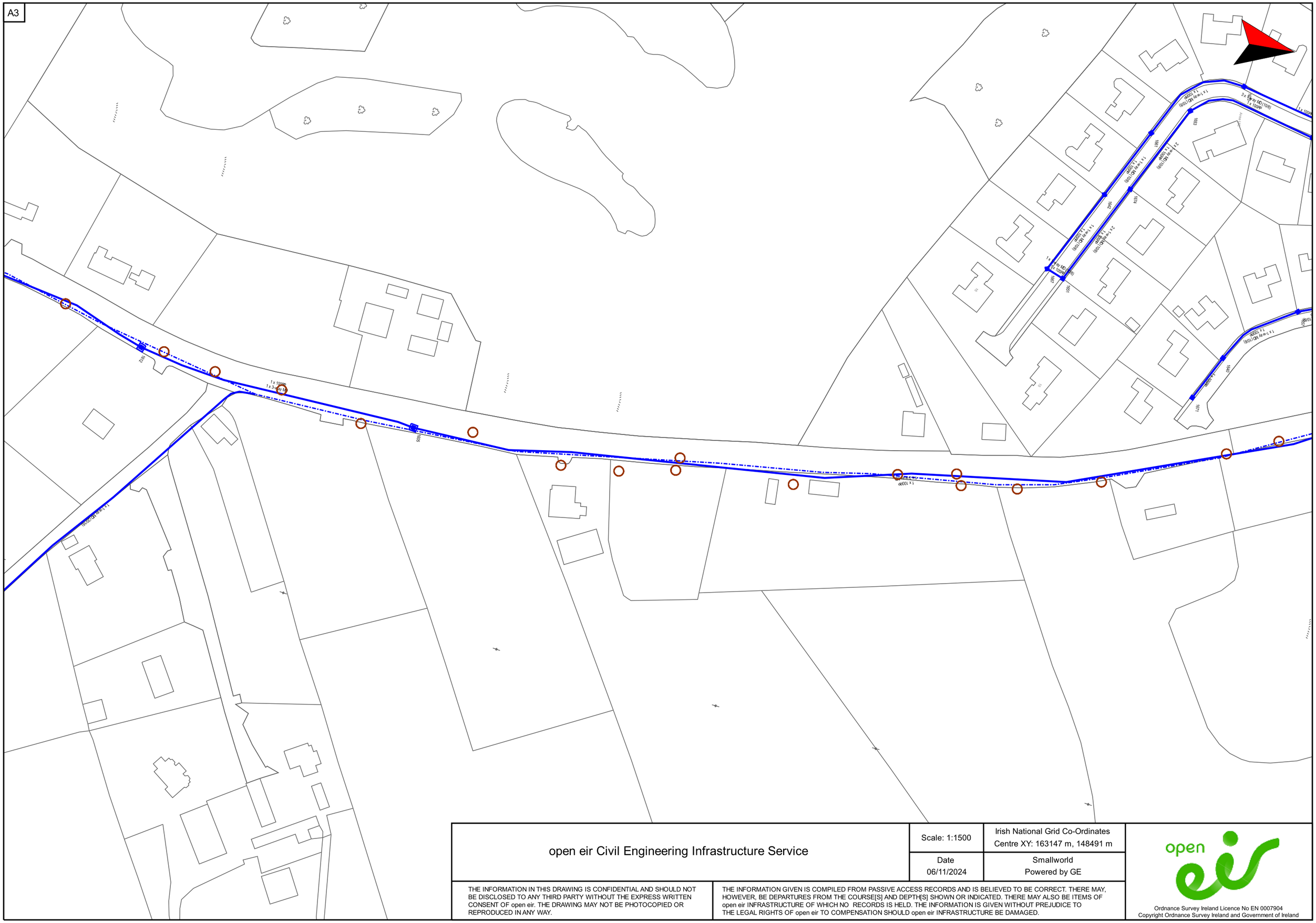
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	Date 06/11/2024	Smallworld Powered by GE

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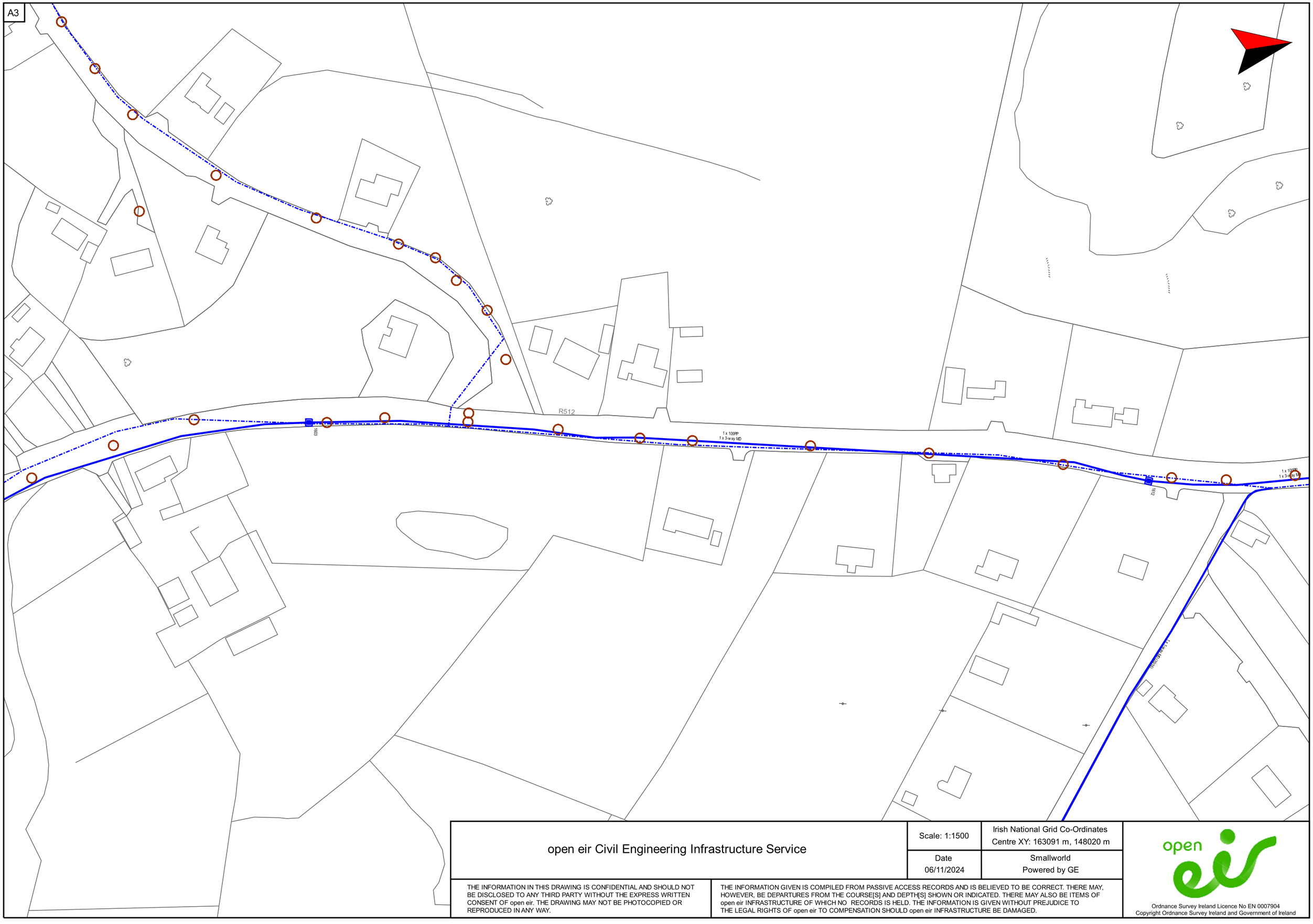
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A3


1 x 100dp
1 x 3-Core MD (100)
1 x 100dp
1 x 3-Core MD (100)
1 x 100dp
1 x 3-Core MD (100)

A3



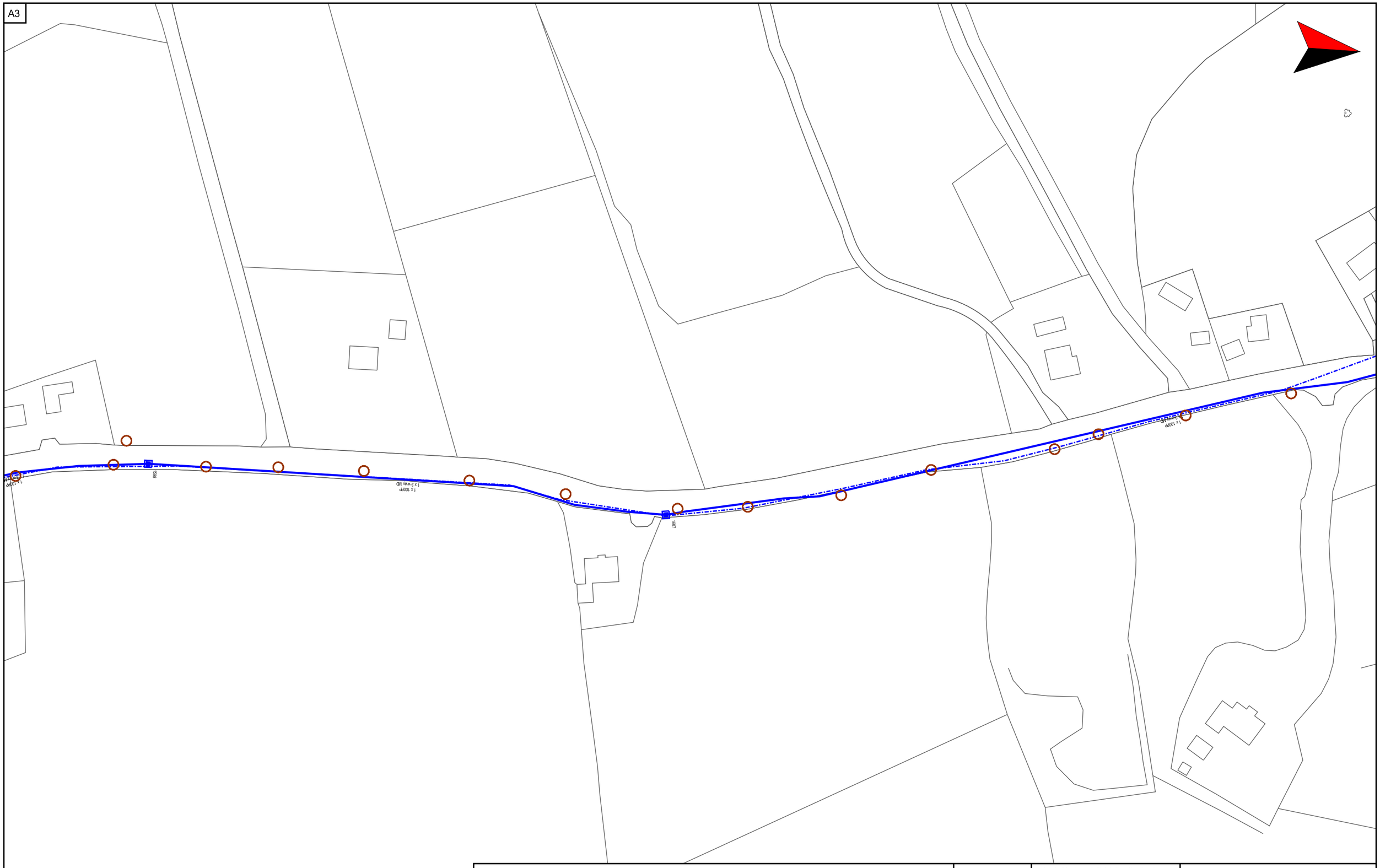
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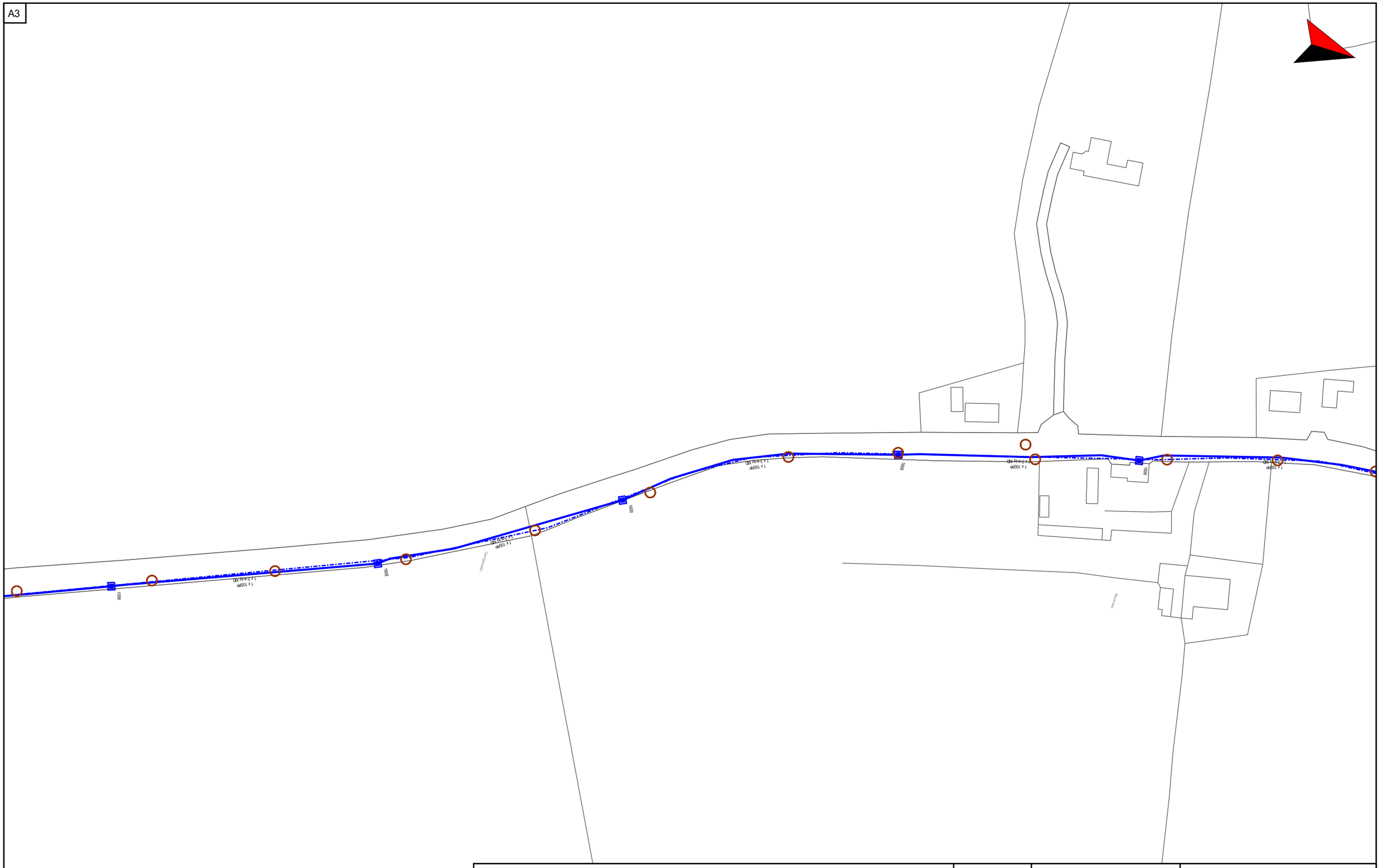
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A3


1 x 100pp
1 x 100pp
1 x 100pp

A3



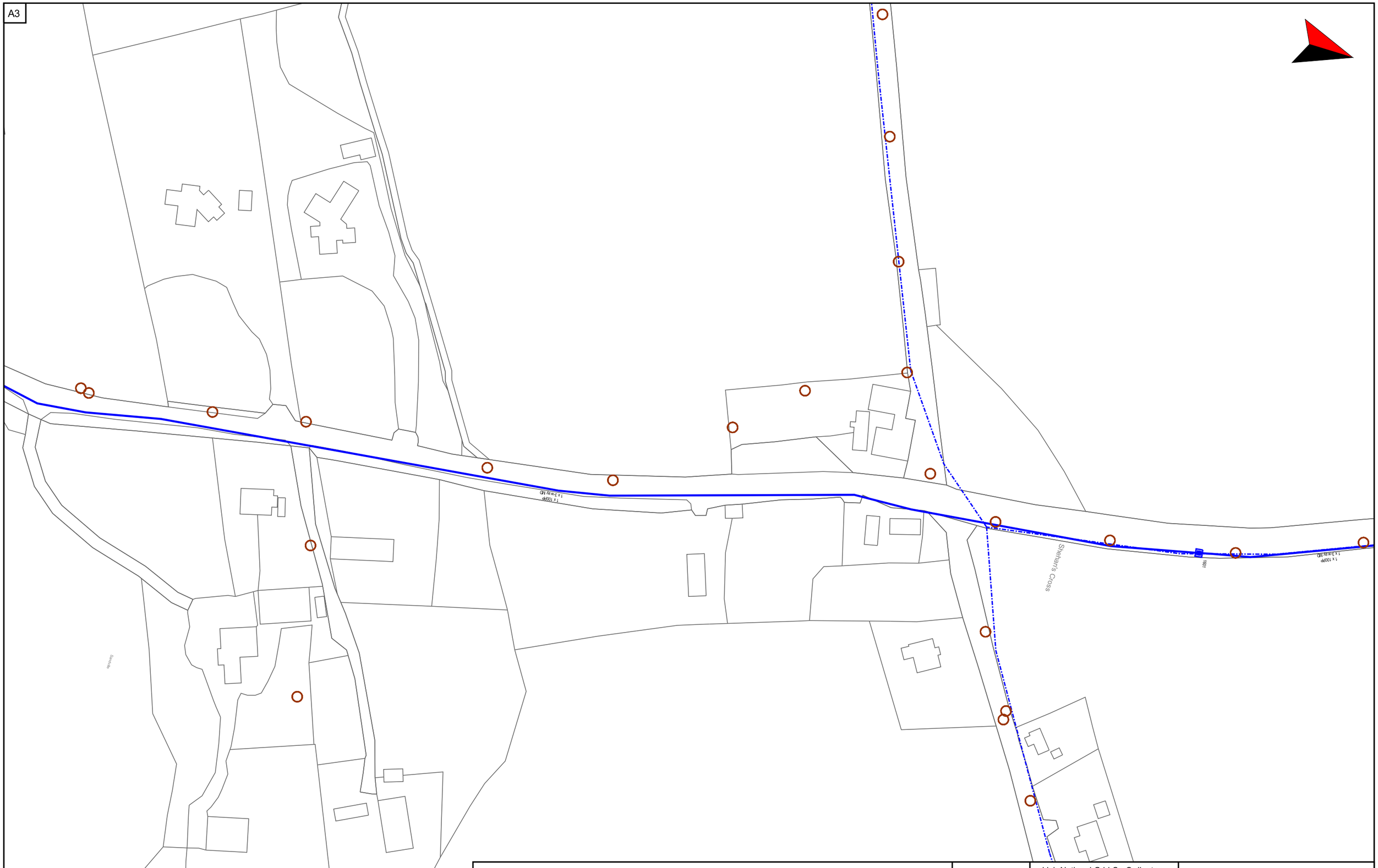
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	Date 06/11/2024	Smallworld Powered by GE

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A3



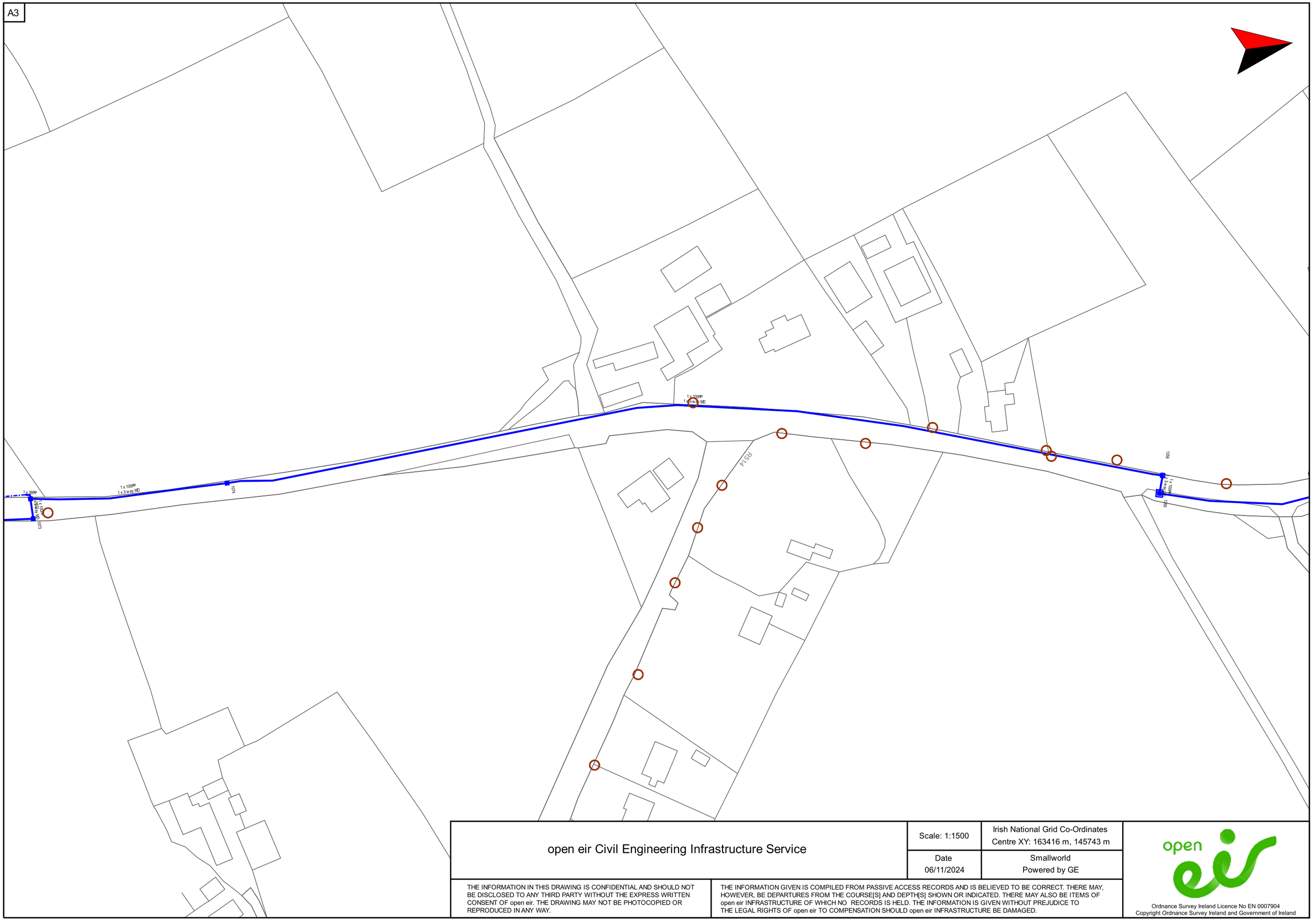
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	Date 06/11/2024	Smallworld Powered by GE

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open eir Civil Engineering Infrastructure Service	Scale: 1:1500	Irish National Grid Co-Ordinates Centre XY: 163416 m, 145743 m
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A3

1 x 100PP
1 x 3-way MD

1 x 38PP
1 x 3-way MD

R512

R512

open eir Civil Engineering Infrastructure Service	Scale: 1:1500	Irish National Grid Co-Ordinates Centre XY: 163336 m, 145185 m
	Date 06/11/2024	Smallworld Powered by GE

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A3

1 x 3-way MD
1 x 100PP

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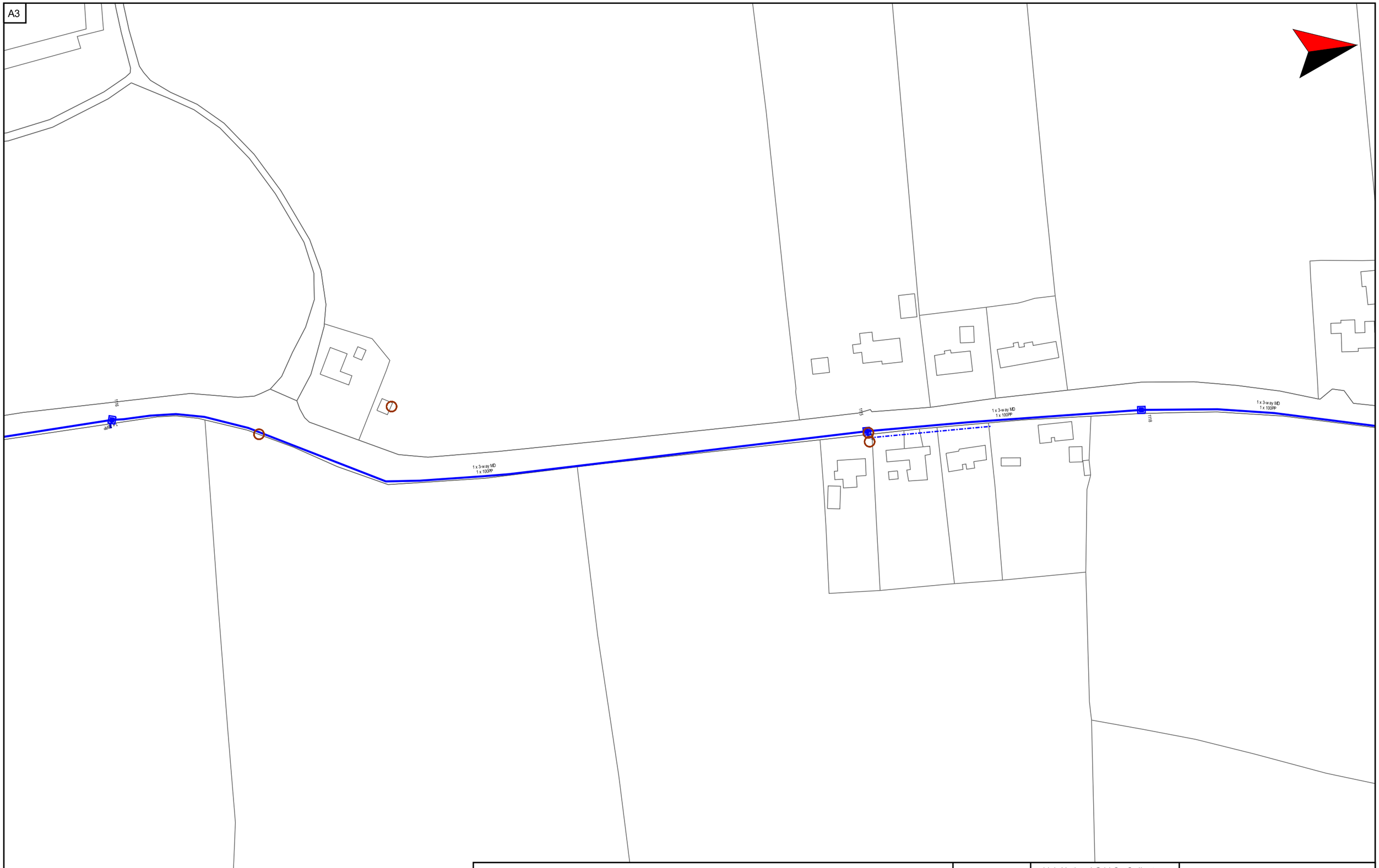
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	Date 06/11/2024	Smallworld Powered by GE

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open eir Civil Engineering Infrastructure Service	Scale: 1:1500	Irish National Grid Co-Ordinates Centre XY: 163038 m, 144056 m
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open eir Civil Engineering Infrastructure Service

Scale: 1:1500

Irish National Grid Co-Ordinates
Centre XY: 162981 m, 143471 m

Date
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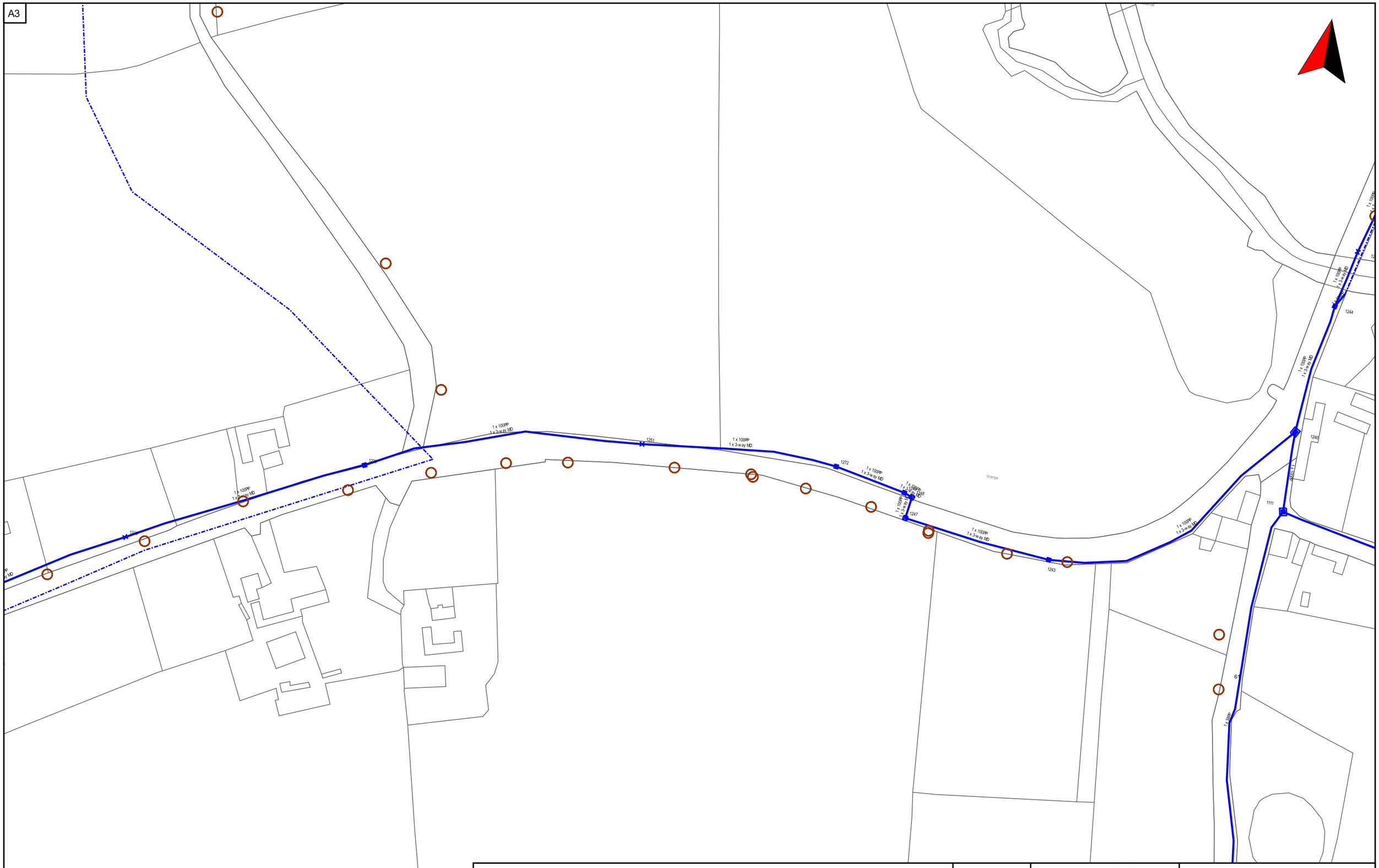
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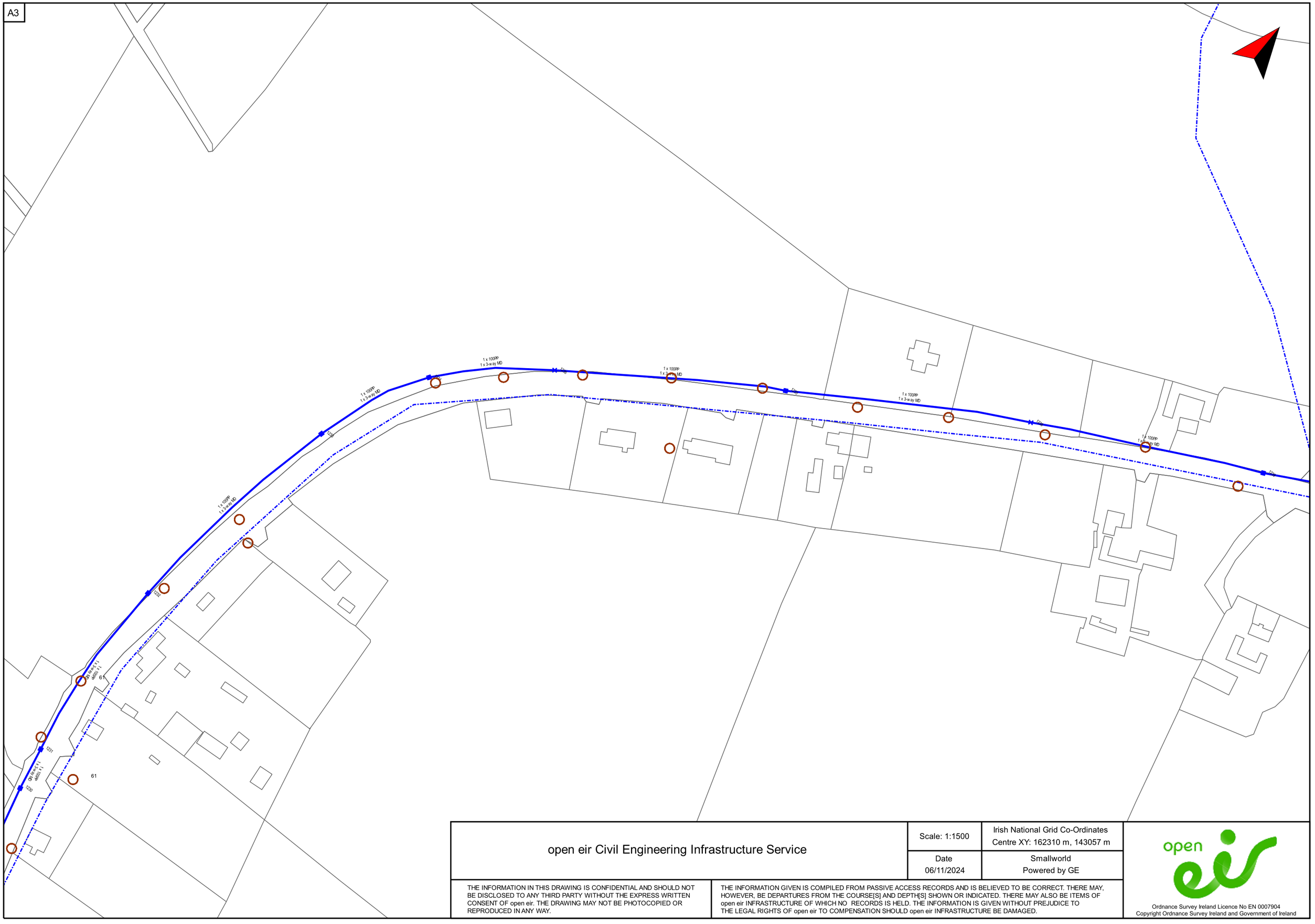
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	Date 06/11/2024	Smallworld Powered by GE

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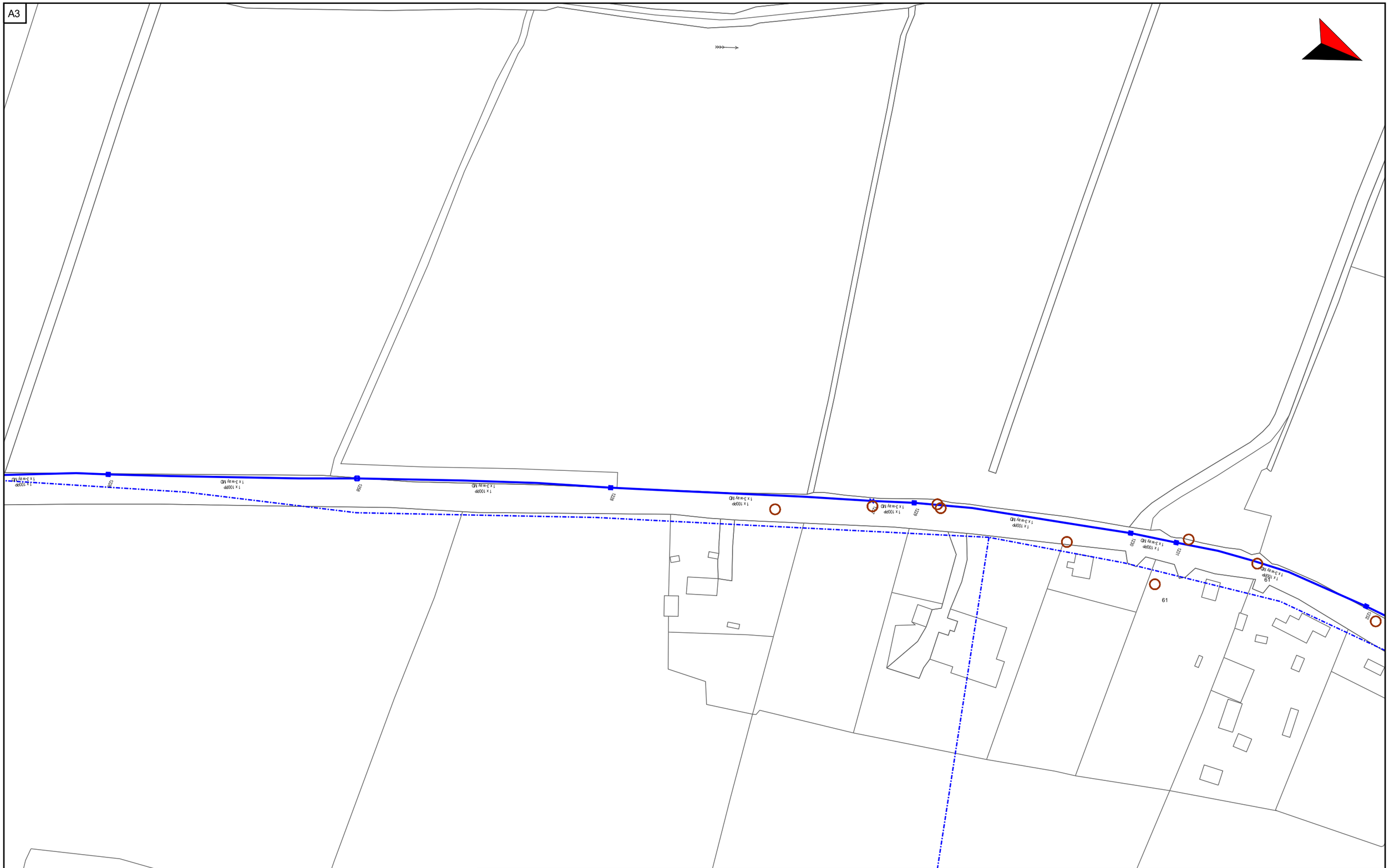
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open eir Civil Engineering Infrastructure Service

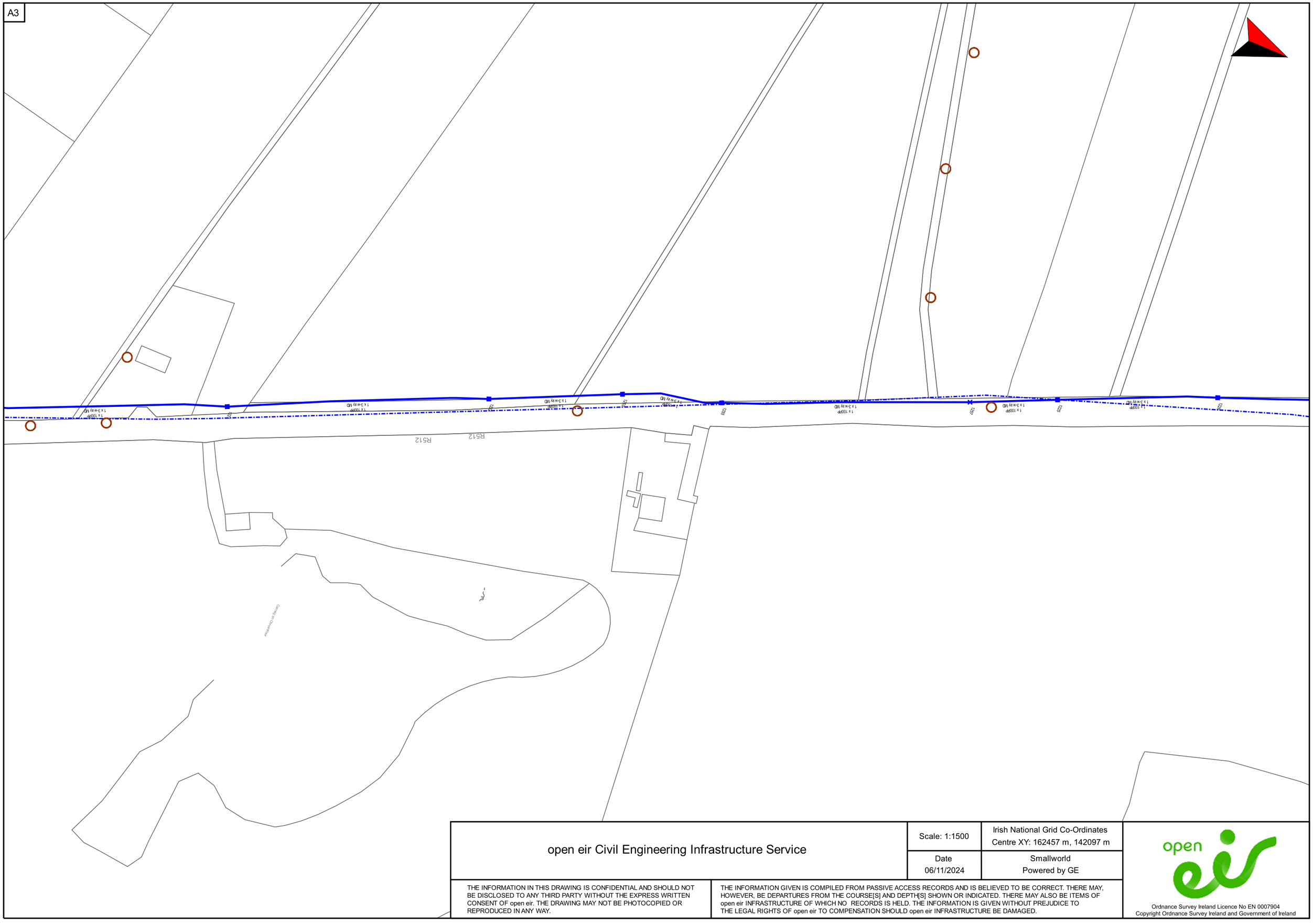
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Date 06/11/2024	Smallworld Powered by GE

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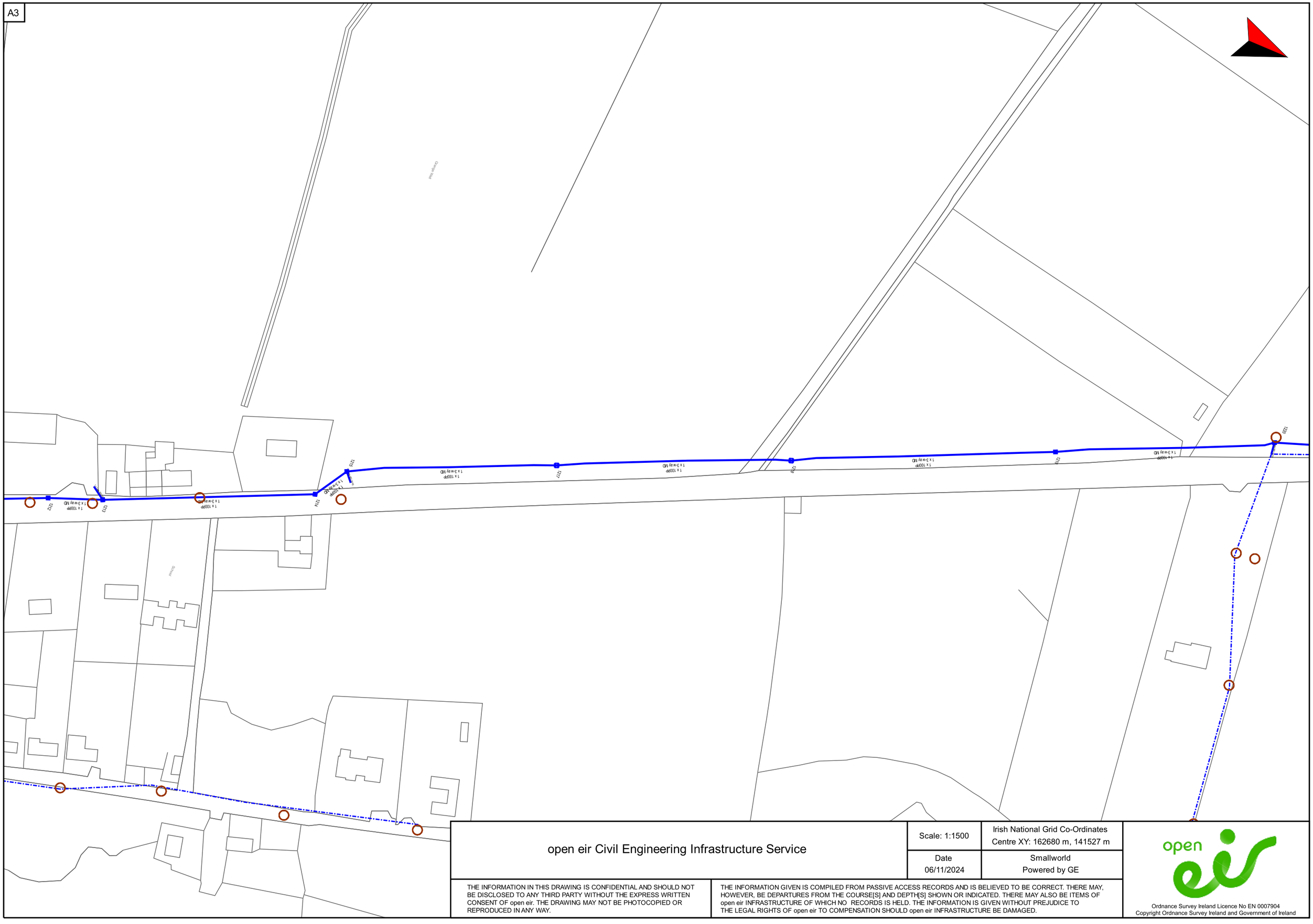
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open eir Civil Engineering Infrastructure Service	Scale: 1:1500	Irish National Grid Co-Ordinates Centre XY: 162680 m, 141527 m
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A3

open eir Civil Engineering Infrastructure Service

Scale: 1:1500

Irish National Grid Co-Ordinates
Centre XY: 162932 m, 141020 m

Date
06/11/2024

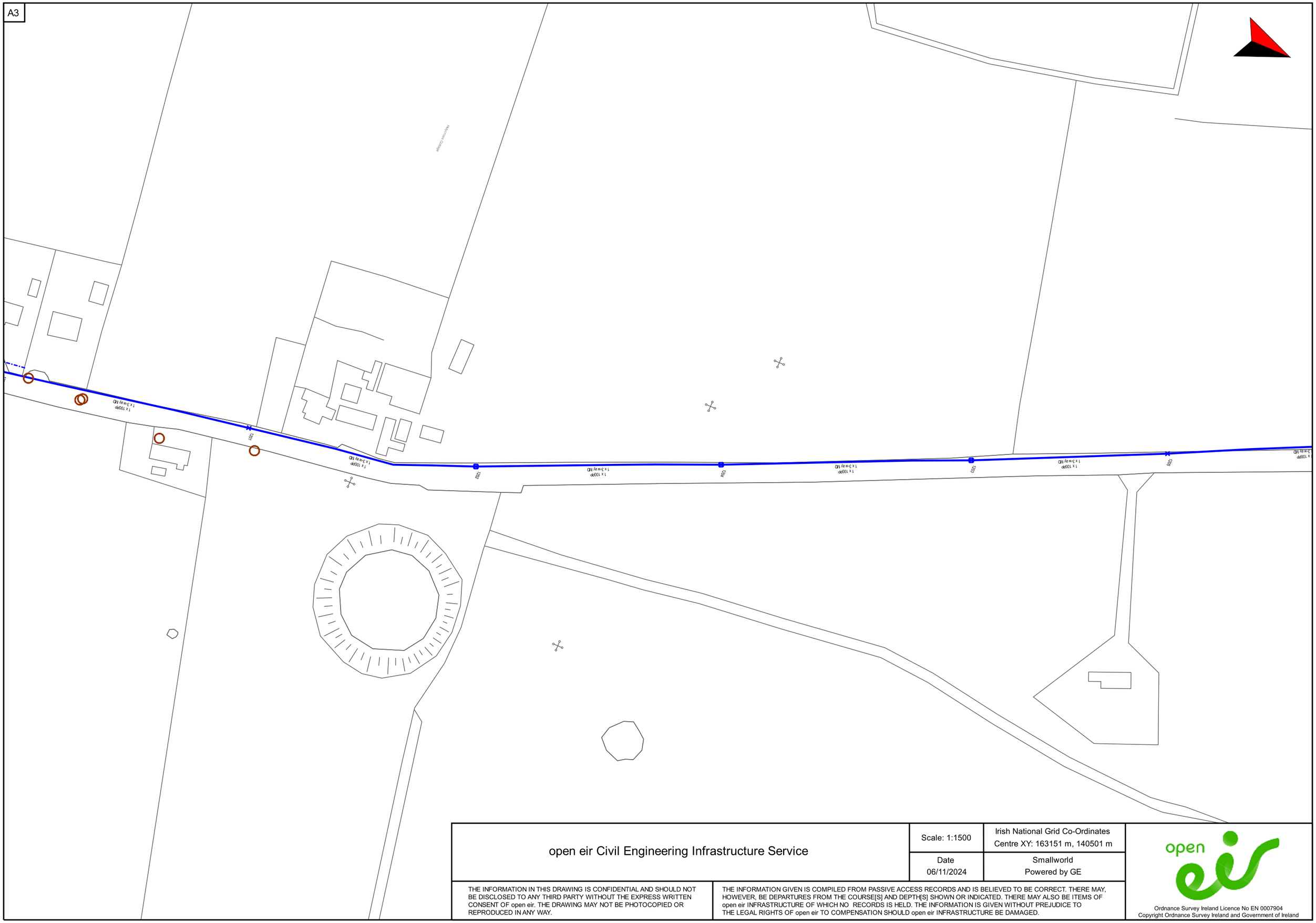
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open eir Civil Engineering Infrastructure Service	Scale: 1:1500	Irish National Grid Co-Ordinates Centre XY: 163151 m, 140501 m
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A3

Haycroes Cottage

61

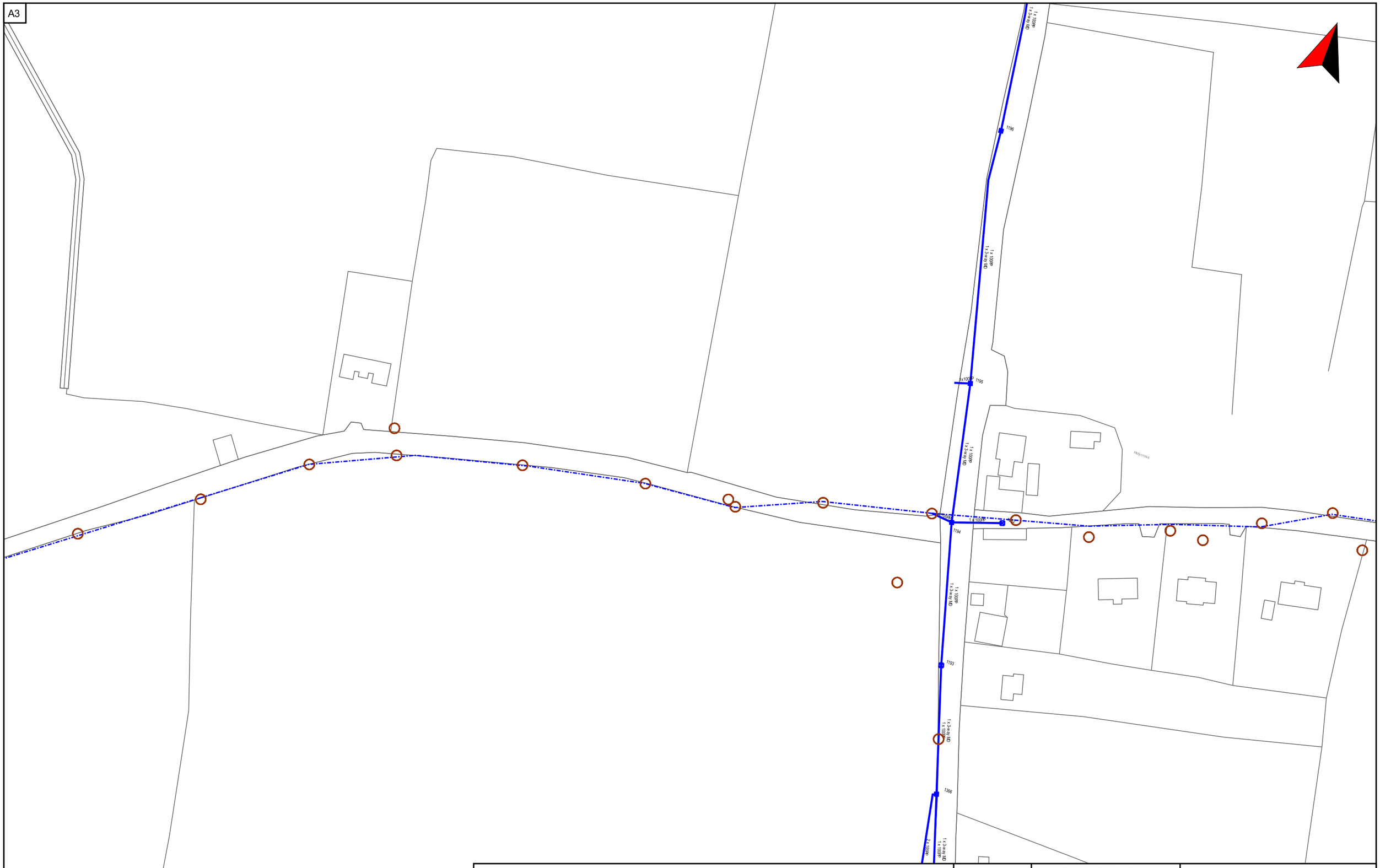
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A3



open eir Civil Engineering Infrastructure Service

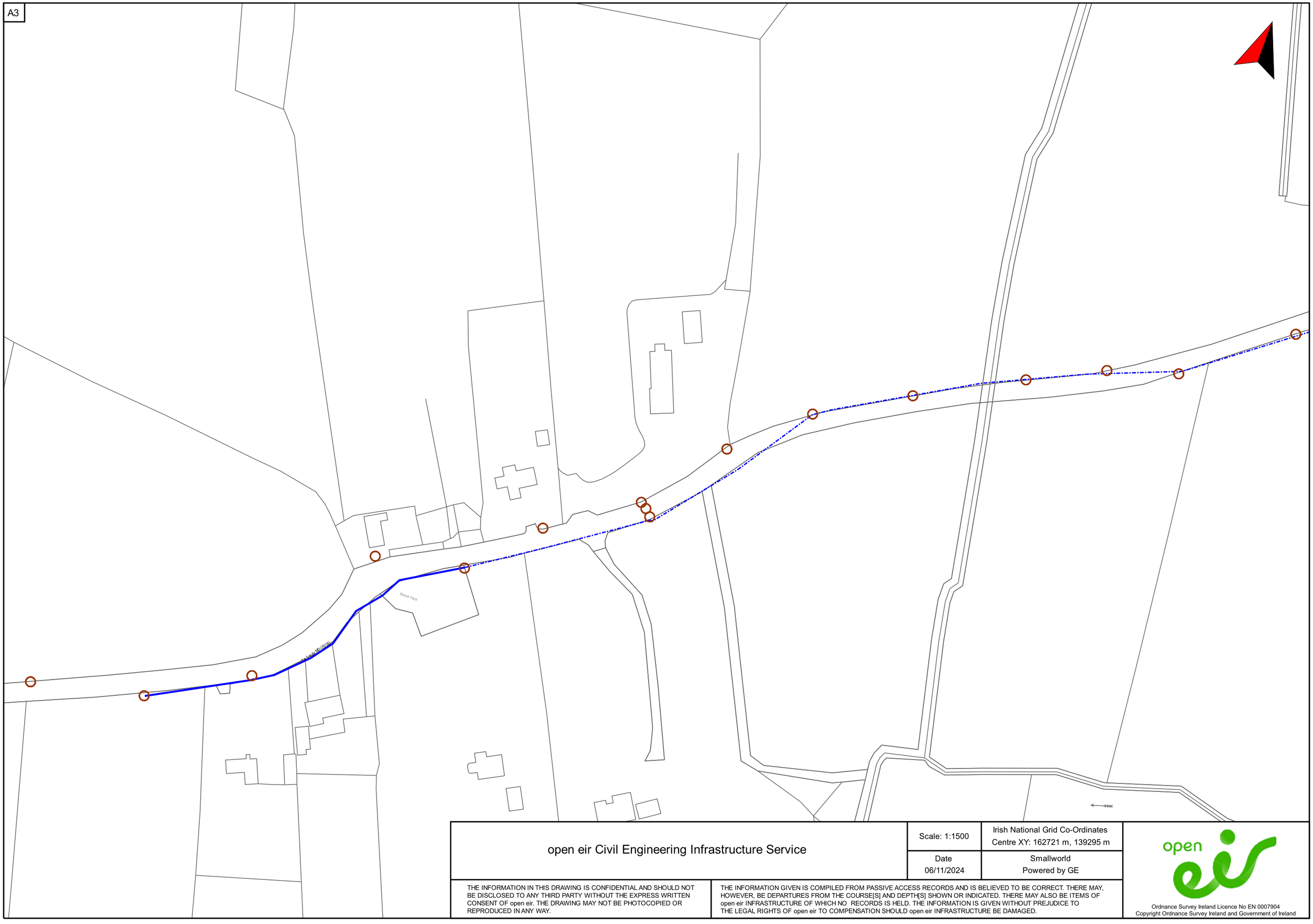
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Date 06/11/2024	Smallworld Powered by GE

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A3



open eir Civil Engineering Infrastructure Service

Scale: 1:1500	Irish National Grid Co-Ordinates Centre XY: 162721 m, 139295 m
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A3

open eir Civil Engineering Infrastructure Service

Scale: 1:1500

Irish National Grid Co-Ordinates
Centre XY: 161215 m, 139251 m

Date
06/11/2024

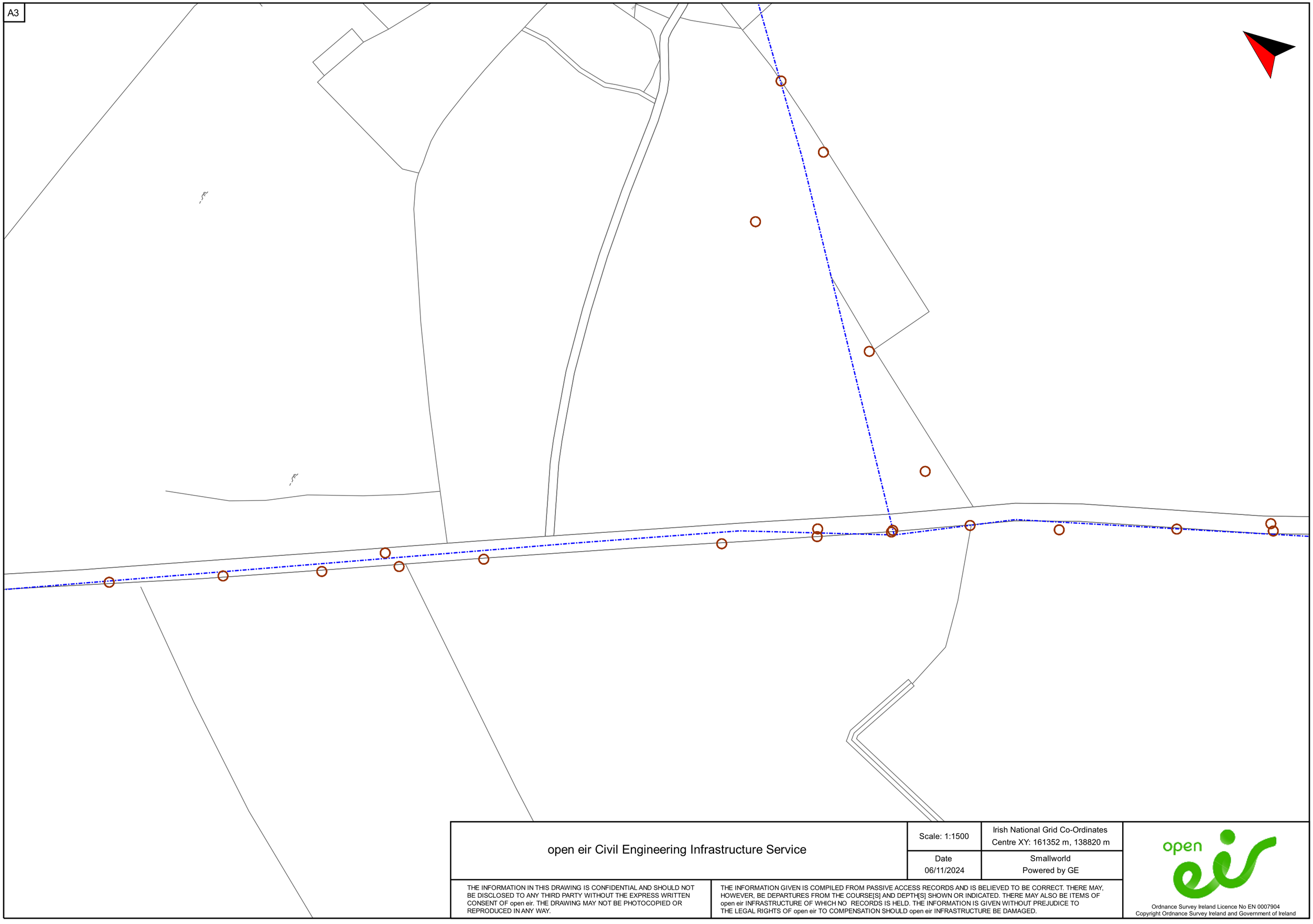
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A3



open eir Civil Engineering Infrastructure Service

Scale: 1:1500

Irish National Grid Co-Ordinates
Centre XY: 161352 m, 138820 m

Date
06/11/2024

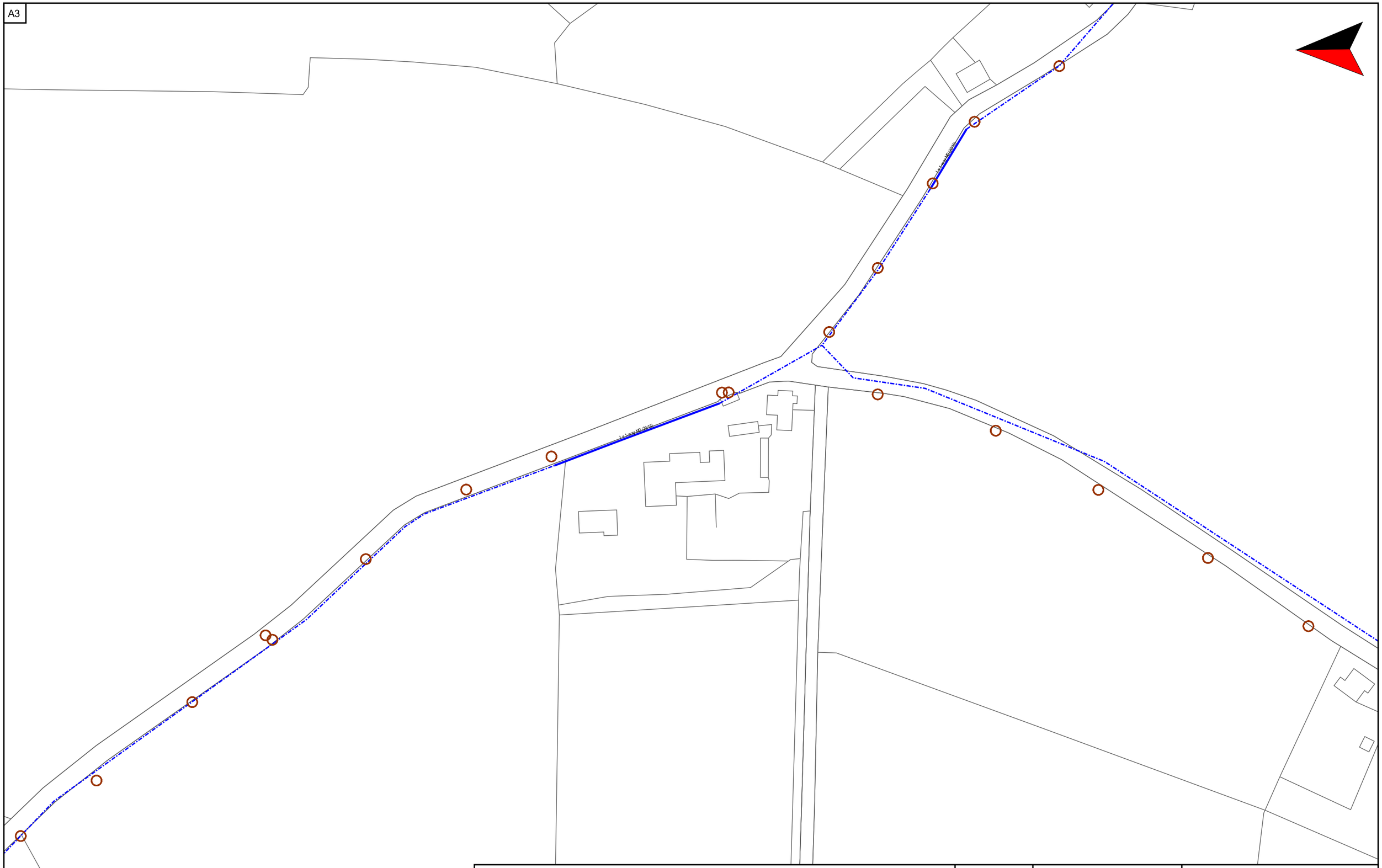
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Scale: 1:1500

Irish National Grid Co-Ordinates
Centre XY: 161569 m, 138386 m

Date
06/11/2024

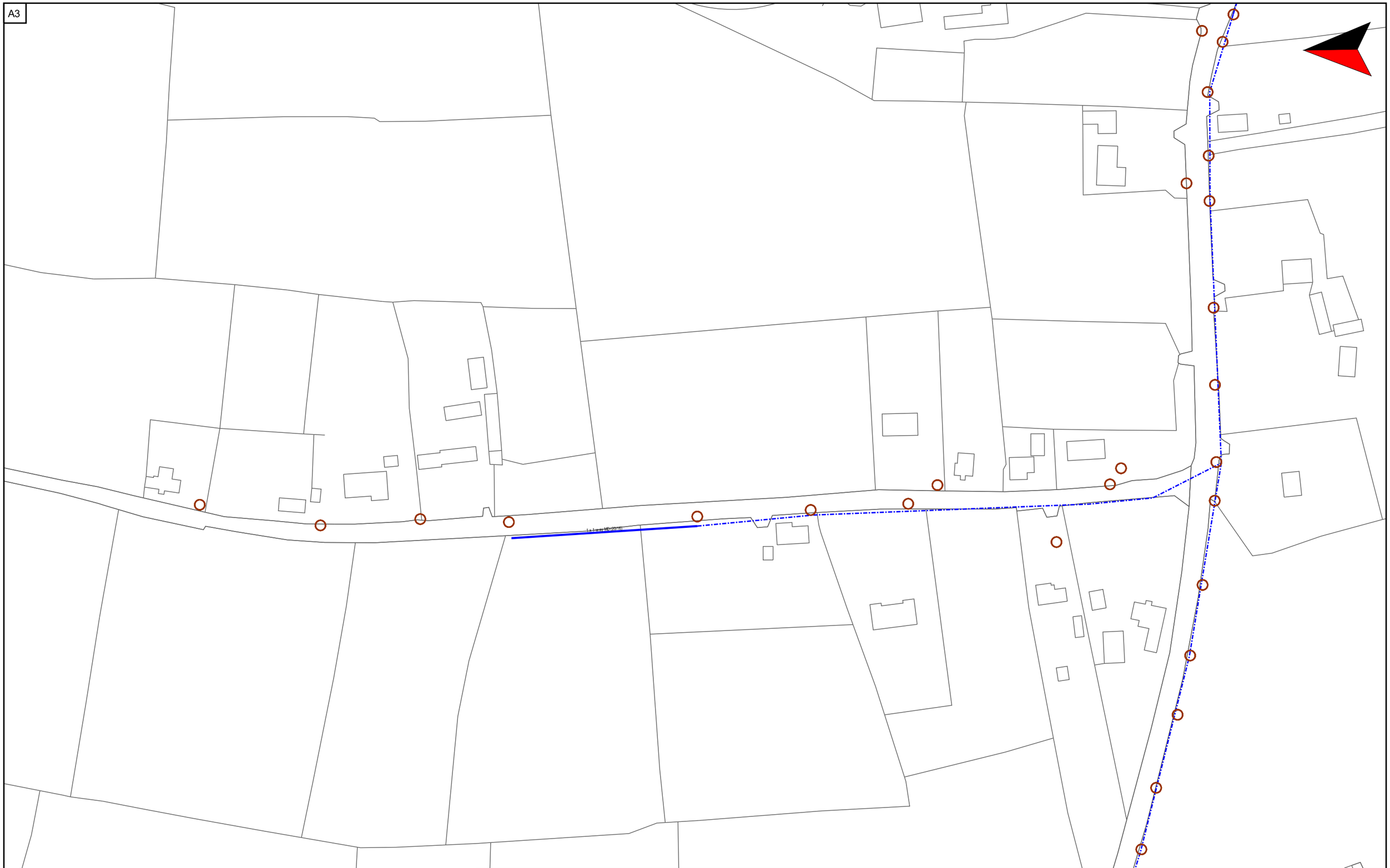
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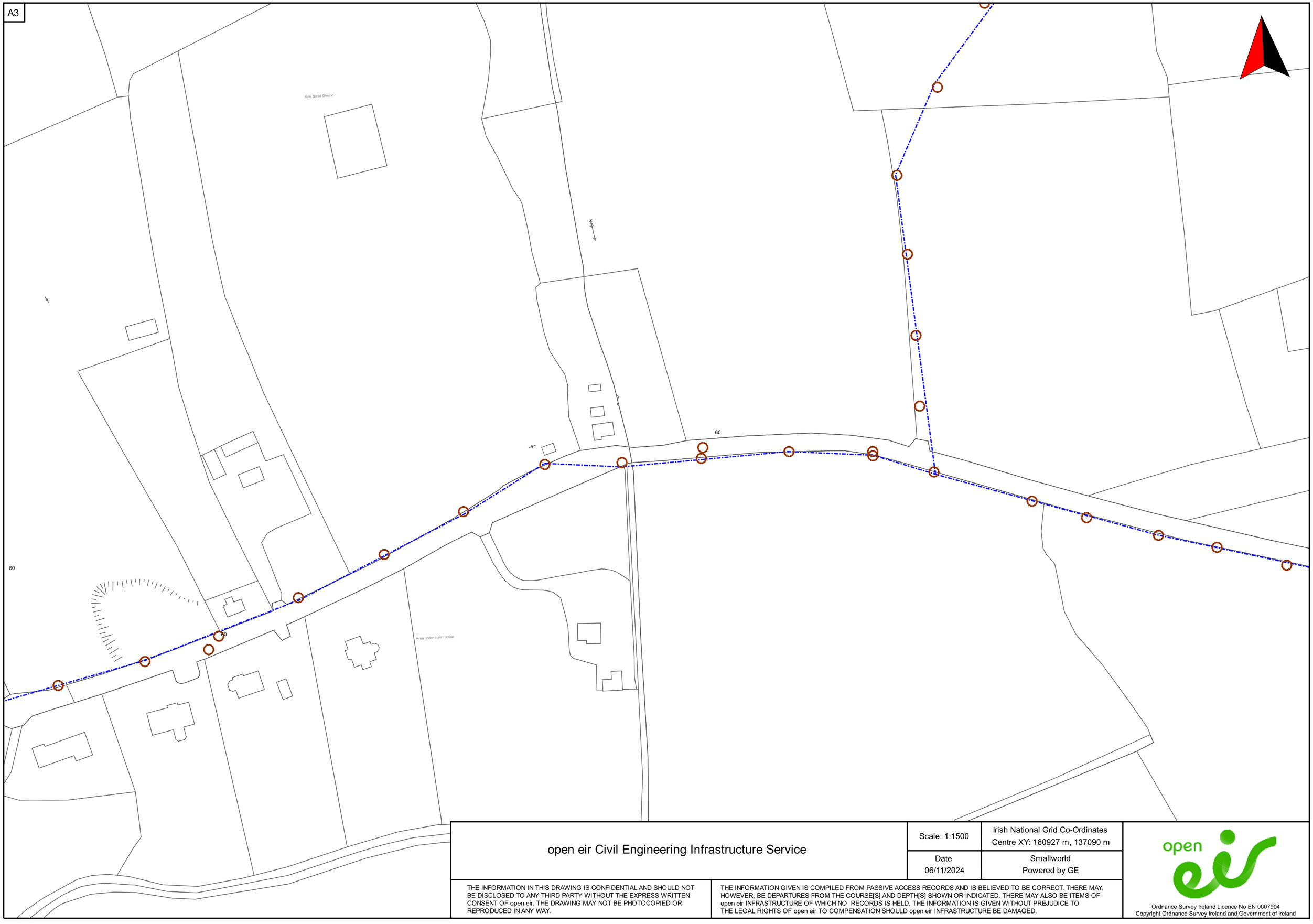
	Scale: 1:1500	Irish National Grid Co-Ordinates Centre XY: 161322 m, 137237 m
	Date 06/11/2024	Smallworld Powered by GE

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open eir Civil Engineering Infrastructure Service

Scale: 1:1500	Irish National Grid Co-Ordinates Centre XY: 160927 m, 137090 m
Date 06/11/2024	Smallworld Powered by GE

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A3

Well

Area under construction

Morningstar River

60

60

60

60

60

95

60

open eir Civil Engineering Infrastructure Service	Scale: 1:1500	Irish National Grid Co-Ordinates Centre XY: 160363 m, 137071 m
	Date 06/11/2024	Smallworld Powered by GE

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Appendix 3

ENET Map





Drawing Produced: 03/11/2023 10:10

Description of Works:

Grid Connection area for Substation

Project Reference:

22635-blue-1

Customer Name: Pawel Duda

Company: Malachy Walsh Partners

Disclaimer:

Information in this document is proprietary and shall not be used, reproduced or disclosed in whole or in part without prior written consent of e-net. Persons relying on the accuracy of this map and any part thereof do so at their own risk and e-net accepts no liability howsoever arising, in relation to any reliance thereon

LEGEND

DUCT
THIRD PARTY DUCT
THIRD PARTY CHAMBER
CARRIAGEWAY CHAMBER (CW1)
CARRIAGEWAY CHAMBER (CW2)
CARRIAGEWAY CHAMBER (CW3)
FOOTWAY CHAMBER (FW1)
FOOTWAY CHAMBER (FW2)
FOOTWAY CHAMBER (FW3)
VERGECHAMBER (VW1)
VERGE CHAMBER (VW2)
VERGE CHAMBER (VW3)
CHAMBER LXXX
SWEPT T SWTXXX
CAP END CPXXX
SPLICE POINT
LOOPJOINT
DESCRIPTION
SPECIAL ENGINEERING DIFFICULTY
SWEPT TEE

NOTES:
ALL DUCTS AT STANDARD DEPTH
600mm IN CARRIAGEWAY
450mm IN FOOTWAY/GRASS
UNLESS OTHERWISE SHOWN eg
350

SHEET SCHEMATIC
nnn
CPnnn
CUSTOMER PREMISES

DUCT CONFIGURATION
(4 X110mm WITH 1 DUCT SUBDUCTED)
COR1CH00_nnn-00_nnn

Appendix 3

ESB Email Correspondence and Maps

From:	DialBeforeYouDig (ESB Networks)
To:	Conor McLoughlin
Subject:	Electrical Network Information Request Reference No: 20241023-011
Attachments:	20241023-011_A0_10.pdf;20241023-011_A0_9.pdf;20241023-011_A0_4.pdf;20241023-011_A0_8.pdf;20241023-011_A0_7.pdf;20241023-011_A0_2.pdf;20241023-011_A0_6.pdf;20241023-011_A0_3.pdf;20241023-011_A0_5.pdf;20241023-011_A0_11.pdf;20241023-011_A0_1.pdf;20241023-011_A0_12.pdf;ESB Construction Safety 28th 11.40.pdf;
Sent:	23/10/2024 11:34:50

ESB Networks Reference: 20241023-011

To Whom it May Concern,

Thank you for your recent enquiry regarding the location of ESB electrical network. Please find notice below of documentation which must be reviewed carefully in advance of site works at the requested location.

· Attached PDF map(s) of requested location.

· ESB Networks "Code of Practice for Avoiding Danger From Overhead Electricity Lines'.
  o ESB Networks Code of Practice for Avoiding Danger from Overhead Electricity Lines

· H.S.A. Code of Practice for Avoiding Danger from Underground Services
  - https://www.hsa.ie/eng/publications_and_forms/publications/construction/cop_avoiding_danger_from_underground_services_.pdf

ESB Networks 'Safe Construction and the Electricity Network'.
  o safe-construction-with-electricity-new.pdf (esbnetworks.ie)

· ESB Networks 'How You Can Avoid Hitting Electrical Cables When Digging and Drilling"

how-you-can-avoid-hitting-electrical-cables-when-digging-and-drilling-v2.0.pdf (esbnetworks.ie)

Please fully read the contents of this e-mail and all attached or referenced Documentation carefully before you proceed.

The attached PDF map(s) indicate the approximate location of ESB Networks underground (UG) cables and overhead (OH) lines. ESB Networks makes no representation that the maps accurately show the location of ESB Networks cables and lines.

ESB Networks has issued this map as a PDF document. If printing a paper version of this map and to maintain a clear and correct representation of the electrical network information, it must be ensured that

(1) It has been printed in colour to fit the page size that has been indicated within each PDF document (The PDF document indicates if the map should be printed on either of A4, A3, A2, A1, A0).

(2) Each of the colours indicated on the colour code legend (incorporated in the PDF document) are clear and distinct from each other.

Please note that there are High Voltage Overhead Lines and Underground Cables in the area concerned. If you intend working or undertaking development within an 80 meter corridor of the overhead lines or in the direct vicinity of the underground cables you must immediately contact 1800 372 757 to agree safe working procedures and necessary clearances between the lines and the development in advance of any excavation.

It is essential before excavating in the vicinity of ESB Networks cables that you fully understand and comply with the requirements of the H.S.A. Code of Practice for Avoiding Danger from Underground Services and that you contact ESB Networks. If works don't commence before or continue beyond 6 weeks following the date of issue, then you must obtain an updated map. Each new job requires a new map. It is imperative that before any works commence you first locate and trace the routes of all electricity cables by using appropriate locator equipment (in both power and radio modes). Before using a mechanical excavator, ONLY MANUAL means should be employed to prove the location of ESB Networks cables. Even where manual excavation is used, extreme caution must always be exercised, as failure to do so could result in serious injury or electrocution. Under no circumstances should iron bars be used during manual excavation. Careful hand digging of trial holes should be carried out for accurate cable location and prior to using a mechanical excavator in the vicinity of electricity cables.

As outlined in the H.S.A. Code of Practice for Avoiding Danger from Underground Services, if an electricity cable suffers any impact or any damage, however slight, the incident must be reported to ESB Networks at 1800 372 999 without any undue delay. Please note that, if during excavation, damage or interference occurs to our cables, causing damage to any property, injury or death to any person or loss of supply to any customers, ESB Networks may at its discretion serve a Notification to Stop Work, and notify the Health and Safety Authority immediately. The user will also be liable to reimburse ESB Networks on a full indemnity basis, the full costs, expenses and damages arising (directly or indirectly) as a result.

ESB Networks will extend every reasonable assistance in indicating the route of the cables and arrangements can be made by contacting ESB Networks at 1800 372 757. ESB Networks cannot, however, accept responsibility for the absence or incorrect position of any particular cable on ESB Networks records and drawings supplied. Please note that a charge may be made where a movement of networks is required, and/or where ESB Networks provide staff outside of normal working hours.

Please ensure that all contractors and their personnel involved in excavations have been furnished with this map.

In the event that you have any issues of concern please do not hesitate to contact dig@esb.ie

Kind regards,

Dial Before You Dig Service

From: Conor McLoughlin <conor.mcloughlin@mwp.ie>
Sent: Wednesday, October 23, 2024 9:48 AM
To: DialBeforeYouDig (ESB Networks) <dig@esb.ie>
Subject: RE: 22635-Greensource-Balinlee WF-Grid Route-Existing Services-Request for information
Importance: High

CAUTION: This message is from an EXTERNAL SENDER - be CAUTIOUS, Do NOT Click any links or Open any attachments if you were not expecting them.

Morning,

Please see attached file with zoomed images from google map of the route and below description of the route.

East on the R516, north along the L8012 and the L8011 then east along the L1412 before continuing north on the R512 until the final turn east on the L1170

Kind Regards,

Conor McLoughlin
BE (Hons) MIEI
Project Manager

Please note, I work part-time
Office hours – Wednesday, Thursday & Friday

e Conor.McLoughlin@mwp.ie m +353 85 172 4252
t +353 (0)21 453 6400 w www.mwp.ie

Park House, Bessboro Road,
Blackrock, Cork, T12 X251, Ireland

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Registered Company: Malachy Walsh & Co Ltd

Registered Office: Park House, Mahon Technology Park Bessboro Road, Blackrock, Cork, Ireland. Registered in Ireland. No. 133445

From: DialBeforeYouDig (ESB Networks) <dig@esb.ie>
Sent: 18 October 2024 15:35

To: Conor McLoughlin <conor.mcloughlin@mwp.ie>
Subject: RE: 22635-Greensource-Balinlee WF-Grid Route-Existing Services-Request for information

Dear Conor,

Thank you for your email.

If you can provide multiple closer screenshots zoomed in further for the large requested location this will hopefully be sufficient for us to complete this large request for you.

The requirements for requesting a Dial Before You Dig map are available online at ESB Networks - Homepage

Additionally, you can find the relevant information at the following link:

Digging and Excavation Work (esbnetworks.ie)

For those planning excavation work, it is essential to obtain a Dial Before You Dig Map. This map can be requested by emailing the following details to dig@esb.ie

- Full address of site location including Eircode
- Geographic coordinates of site location
- Map of area (this can be a screenshot on Google Maps)
- Name and email address that we can respond to with the requested map

All requests must conform to the size specifications of A3 or A0 sized maps, with the magnification not exceeding 1:2,500 for rural areas and 1:1,000 for high density urban areas. The route or work site must be clearly marked on the map. Our Dial Before You Dig service has to be able to correctly identify requested locations on our system with a Geographic Map.

Please provide a Geographic Map (Google screenshot, OSi map, etc…) of the requested location with the work site clearly outlined or marked in a .pdf, .jpeg or .png format. This should be in 'SATELITTE VIEW' perspective. We cannot accept 'STREET VIEW' map attachments or web map links for legal and security purposes as links expire.

Upon submission of your request, you will receive your map within ten working days.

Please note that the Dial Before You Dig service only provides maps for excavation works requests. This service is offered to homeowners and contractors who are in the process of breaking ground for construction or excavation with a specific geographic location or job site.

We do not provide maps of the network for planning permission, work assessments, studies, surveys, or college study assignments as the network maps are only valid for six weeks. If works don't commence before or continue beyond six weeks following the date of issue, then you must obtain an updated map. Each new job requires a new map. A screen shot or PDF of a Google Map will suffice to ensure we provide the most detailed and accurate map available.

For high volume Dial Before You Dig requests we provide a digital disk GoAnywhere service online.

This network data is updated every six weeks. The GoAnywhere Digital Disc Service is intended for use by customers who wish to embed ESB Networks electrical data within their own mapping and GIS solutions and have their own OSI mapping licence and

data.

If you have an OSI licence you can request the network data by sending the following details to dig@esb.ie

1. Company Registered Name
2. Company Registration Number
3. Company Registration Address
4. Contact Person/Contact Address
5. Contact Phone Number
6. Contact Email address

Upon receipt of these details, a copyright licence and confidentiality agreement will be dispatched to the relevant contact person for signatures.

For any further queries please contact **ESB Customer Service at 1800 372 757.** They will be happy to assist you or arrange a customer referral to the local office for follow up.

Kind Regards
Dial Before You Dig

From: Conor McLoughlin <conor.mcloughlin@mwp.ie>
Sent: Friday, October 18, 2024 10:47 AM
To: DialBeforeYouDig (ESB Networks) <dig@esb.ie>
Subject: RE: 22635-Greensource-Balinlee WF-Grid Route-Existing Services-Request for information

CAUTION: This message is from an EXTERNAL SENDER - be CAUTIOUS, Do NOT Click any links or Open any attachments if you were not expecting them.

Hi,

Thanks for getting back to me. Its quite a large area, 25km in length. I included a description of the route with road names and a screenshot. If I provide multiple screenshots zoomed in further is that sufficient? I'm under a time constraint and I'm unable to get coordinates for the areas from CAD as im working remotely.

Kind Regards,

Conor McLoughlin
BE (Hons) MIEI
Project Manager

Please note, I work part-time
Office hours – Wednesday, Thursday & Friday

e Conor.McLoughlin@mwp.ie m +353 85 172 4252
t +353 (0)21 453 6400 w www.mwp.ie

Park House, Bessboro Road,
Blackrock, Cork, T12 X251, Ireland

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Registered Office: Park House, Mahon Technology Park Bessboro Road, Blackrock, Cork, Ireland. Registered in Ireland. No. 133445

From: DialBeforeYouDig (ESB Networks) <dig@esb.ie>
Sent: 18 October 2024 09:02
To: Conor McLoughlin <conor.mcloughlin@mwp.ie>
Subject: RE: 22635-Greensource-Balinlee WF-Grid Route-Existing Services-Request for information

Dear Conor,

Thank you for your email.

The screenshot attachment was too far away from the requested line route you were looking for.

The requirements for requesting a Dial Before You Dig map are available online at ESB Networks - Homepage

Additionally, you can find the relevant information at the following link:

Digging and Excavation Work (esbnetworks.ie)

For those planning excavation work, it is essential to obtain a Dial Before You Dig Map. This map can be requested by emailing the following details to dig@esb.ie

- Full address of site location including Eircode
- Geographic coordinates of site location
- Map of area (this can be a screenshot on Google Maps)
- Name and email address that we can respond to with the requested map

All requests must conform to the size specifications of A3 or A0 sized maps, with the magnification not exceeding 1:2,500 for rural areas and 1:1,000 for high density urban areas. The route or work site must be clearly marked on the map. Our Dial Before You Dig service has to be able to correctly identify requested locations on our system with a Geographic Map.

Please provide a Geographic Map (Google screenshot, OSi map, etc…) of the requested location with the work site clearly outlined or marked in a .pdf, .jpeg or .png format. This should be in 'SATELITTE VIEW' perspective. We cannot accept 'STREET VIEW' map attachments or web map links for legal and security purposes as links expire.

Upon submission of your request, you will receive your map within ten working days.

Please note that the Dial Before You Dig service only provides maps for excavation works requests. This service is offered to homeowners and contractors who are in the process of breaking ground for construction or excavation with a specific geographic location or job site.

We do not provide maps of the network for planning permission, work assessments, studies, surveys, or college study assignments as the network maps are only valid for six weeks. If works don't commence before or continue beyond six weeks following the date of issue, then you must obtain an updated map. Each new job requires a new map. A screen shot or PDF of a Google Map will suffice to ensure we provide the most detailed and accurate map available.

For high volume Dial Before You Dig requests we provide a digital disk GoAnywhere service online.

This network data is updated every six weeks. The GoAnywhere Digital Disc Service is intended for use by customers who wish to embed ESB Networks electrical data within their own mapping and GIS solutions and have their own OSI mapping licence and data.

If you have an OSI licence you can request the network data by sending the following details to dig@esb.ie

1. Company Registered Name
2. Company Registration Number
3. Company Registration Address

4. Contact Person/Contact Address
5. Contact Phone Number
6. Contact Email address

Upon receipt of these details, a copyright licence and confidentiality agreement will be dispatched to the relevant contact person for signatures.

For any further queries please contact **ESB Customer Service at 1800 372 757.** They will be happy to assist you or arrange a customer referral to the local office for follow up.

Kind Regards
Dial Before You Dig

From: Conor McLoughlin <conor.mcloughlin@mwp.ie>
Sent: Thursday, October 17, 2024 1:09 PM
To: DialBeforeYouDig (ESB Networks) <dig@esb.ie>
Subject: RE: 22635-Greensource-Balinlee WF-Grid Route-Existing Services-Request for information
Importance: High

CAUTION: This message is from an EXTERNAL SENDER - be CAUTIOUS, Do NOT Click any links or Open any attachments if you were not expecting them.

Hi,

I'm following up on the email below. I haven't received any information. Can you provide an update please and thanks?

Kind Regards,

Conor McLoughlin
BE (Hons) MIEI
Project Manager

Please note, I work part-time
Office hours – Wednesday, Thursday & Friday

e Conor.McLoughlin@mwp.ie m +353 85 172 4252
t +353 (0)21 453 6400 w www.mwp.ie

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Registered Office: Park House, Mahon Technology Park Bessboro Road, Blackrock, Cork, Ireland. Registered in Ireland. No. 133445

From: DialBeforeYouDig (ESB Networks) <dig@esb.ie>
Sent: 24 September 2024 15:17
To: Conor McLoughlin <conor.mcloughlin@mwp.ie>
Subject: RE: 22635-Greensource-Balinlee WF-Grid Route-Existing Services-Request for information

Dear Conor,

Thank you for your email.

The requirements for requesting a Dial Before You Dig map are available online at ESB Networks - Homepage

Additionally, you can find the relevant information at the following link:

Digging and Excavation Work (esbnetworks.ie)

-

For those planning excavation work, it is essential to obtain a Dial Before You Dig Map. This map can be requested by emailing the following details to dig@esb.ie

- Full address of site location including Eircode
- Geographic coordinates of site location
- Map of area (this can be a screenshot on Google Maps)
- Name and email address that we can respond to with the requested map

All requests must conform to the size specifications of A3 or A0 sized maps, with the magnification not exceeding 1:2,500 for rural areas and 1:1,000 for high density urban areas. The route or work site must be clearly marked on the map. Our Dial Before You Dig service has to be able to correctly identify requested locations on our system with a Geographic Map.

Please provide a Geographic Map (Google screenshot, OSi map, etc…) of the requested location with the work site clearly outlined or marked in a .pdf, .jpeg or .png format. This should be in 'SATELITTE VIEW' perspective. We cannot accept 'STREET VIEW' map attachments or web map links for legal and security purposes as links expire.

Upon submission of your request, you will receive your map within ten working days.

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We do not provide maps of the network for planning permission, work assessments, studies, surveys, or college study assignments as the network maps are only valid for six weeks. If works don't commence before or continue beyond six weeks following the date of issue, then you must obtain an updated map. Each new job requires a new map. A screen shot or PDF of a Google Map will suffice to ensure we provide the most detailed and accurate map available.

For high volume Dial Before You Dig requests we provide a digital disk GoAnywhere service online.

This network data is updated every six weeks. The GoAnywhere Digital Disc Service is intended for use by customers who wish to embed ESB Networks electrical data within their own mapping and GIS solutions and have their own OSI mapping licence and data.

If you have an OSI licence you can request the network data by sending the following details to dig@esb.ie

1. Company Registered Name
2. Company Registration Number
3. Company Registration Address
4. Contact Person/Contact Address
5. Contact Phone Number
6. Contact Email address

Upon receipt of these details, a copyright licence and confidentiality agreement will be dispatched to the relevant contact person for signatures.

For any further queries please contact **ESB Customer Service at 1800 372 757.** They will be happy to assist you or arrange a customer referral to the local office for follow up.

Kind Regards
Dial Before You Dig

From: Conor McLoughlin <conor.mcloughlin@mwp.ie>
Sent: Tuesday, September 24, 2024 2:50 PM
To: DialBeforeYouDig (ESB Networks) <dig@esb.ie>
Subject: 22635-Greensource-Balinlee WF-Grid Route-Existing Services-Request for information

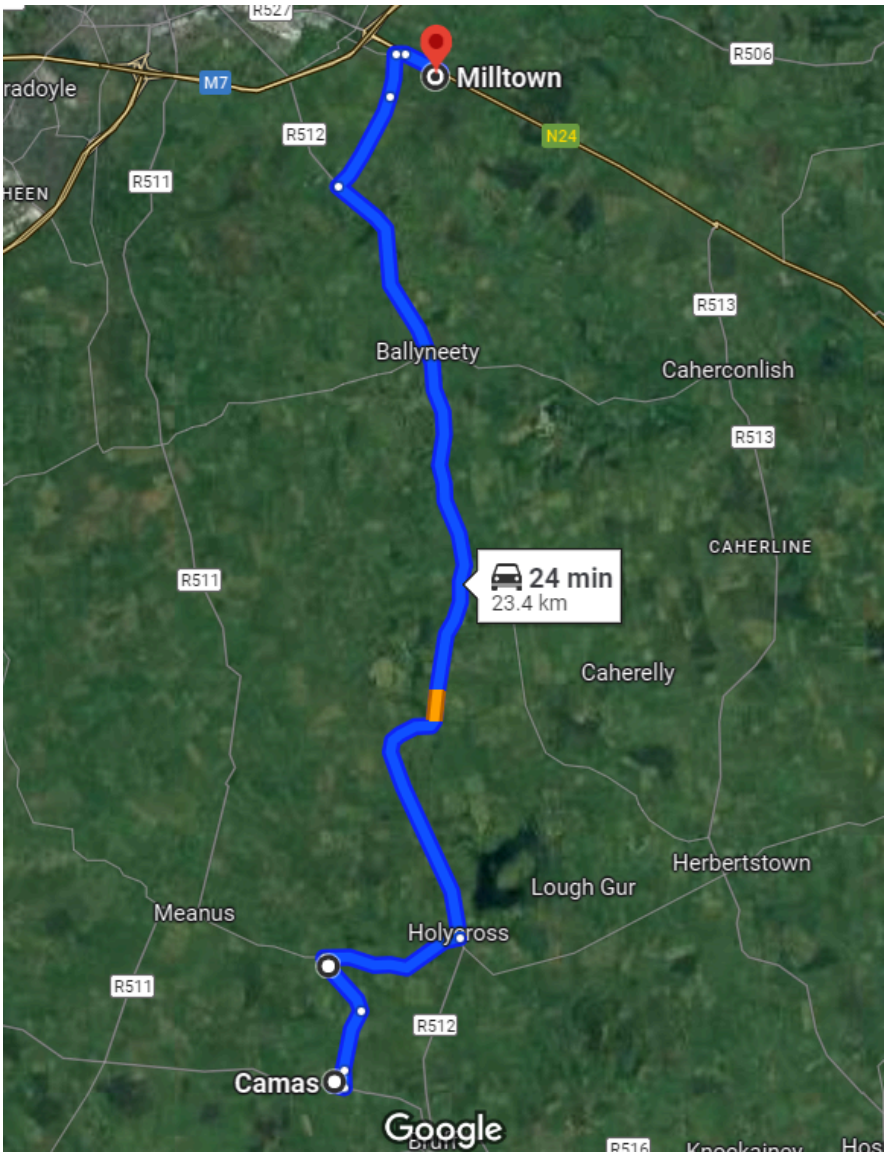
CAUTION: This message is from an EXTERNAL SENDER - be CAUTIOUS, Do NOT Click any links or Open any attachments if you were not expecting them.

Afternoon,

Malachy Walsh and Partners are Civil Consultant Engineers for wind farm development near Bruff County Limerick with a grid route connection at Killonan County Limerick. Part of the scope of works is to assess the existing services along the proposed route.

We would be extremely grateful if you could provide us with a DWG/DXF/PDF/KML or shape file of the existing services along the route. If you've any queries or I can be of any help, please contact me on my number shown below.

The proposed grid route starts off heading east on the R516, north along the L8012 and the L8011 then east along the L1412 before continuing north on the R512 until the final turn east on the L1170. The route is shown as follows:



Kind Regards,

Conor McLoughlin
BE (Hons) MIEI
Project Manager

e Conor.McLoughlin@mwp.ie m +353 85 172 4252
t +353 (0)21 453 6400 w www.mwp.ie

Park House, Bessboro Road,
Blackrock, Cork, T12 X251, Ireland

MWP

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Is tuairimí nó dearcthaí an údair amháin aon tuairimí nó dearcthaí ann, agus ní gá gurb ionann iad agus tuairimí nó dearcthaí ESB.
Má bhfuair tú an ríomhphost seo trí earráid, ar mhiste leat é sin a chur in iúl don seoltóir.
Scanann ESB ríomhphoist agus ceangaltáin le haghaidh víreas, ach ní ráthaíonn sé go bhfuil ceachtar díobh saor ó víreas agus ní glacann dliteanas ar bith as aon damáiste de dhroim víreas.
https://www.esb.ie/contact

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Má bhfuair tú an ríomhphost seo trí earráid, ar mhiste leat é sin a chur in iúl don seoltóir.
Scanann ESB ríomhphoist agus ceangaltáin le haghaidh víreas, ach ní ráthaíonn sé go bhfuil ceachtar díobh saor ó víreas agus ní glacann dliteanas ar bith as aon damáiste de dhroim víreas.
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* ** *** ** * ** *** ** * ** *** ** *
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* ** *** ** * ** *** ** * ** *** ** *

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* ** *** ** * ** *** ** * ** *** ** *
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ESB Networks

TITLE:

20241023-011_A0_1

COLOUR CODE:

- BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- GREEN - MV(10KV/20KV) OVERHEAD LINES
- BLUE - LV (400V/230V) OVERHEAD LINES
- CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
- RED - MV/LV (10KV/20KV/400V/230V) UNDERGROUND CABLE ROUTES

DATE: 23-Oct-2024

** SCALE: 1:2500

** SCALE WHEN PRINTED ON AN A0 PAGE
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(B) CABLE LOCATER EQUIPMENT OPERATED IN BOTH POWER AND RADIO MODES;
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X,Y: 159474 , 138680

X,Y: 162372 , 138680

X,Y: 162372 , 136757

BALLYBANE N
BALLYBANE
BALLYBANE EAST
BALLYBANE S
CULLABRACK N
CULLABRACK W
TULLYABR...
CAMAS N
CAMAS3
CAMAS VIEW
CARRIGEEN MID
CARRIGEEN
CAMAS LOWER
CAMAS 1
CAMAS S
CAMAS MID
CAMAS HO
CAMAS LWR
CAMAS TD
CAMAS E
CAMASS NORTH
BALLYBREESODE N
BALLYREESODE LWR
BALLYBREESODE
BALLYBREESODE S
STONEPARK
STONEPARK E
STONEPARK S
LV1

HIGH VOLTAGE

IF YOU INTEND WORKING, OR UNDERTAKING DEVELOPMENT WITHIN A CORRIDOR EXTENDING 40 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE OVERHEAD LINES OR WITHIN A CORRIDOR EXTENDING 5 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE UNDERGROUND CABLES YOU MUST CONTACT ESB NETWORKS IN ADVANCE OF WORKS AT 1800 372 757 OR EMAIL DIG@ESB.IE TO AGREE SAFE WORKING PROCEDURES AND NECESSARY CLEARANCES BETWEEN THE LINES AND THE DEVELOPMENT IN ADVANCE OF ANY EXCAVATION.

ESB Networks

TITLE:

20241023-011_A0_2

COLOUR CODE:

- BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- GREEN - MV(10KV/20KV) OVERHEAD LINES
- BLUE - LV (400V/230V) OVERHEAD LINES
- CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
- RED - MV/LV (10KV/20KV/400V/230V) UNDERGROUND CABLE ROUTES

DATE: 23-Oct-2024

** SCALE: 1:2500

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X,Y: 160786 , 140048

X,Y: 163685 , 140048

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CAHERGUILLAMORE
CAHIRGUILLAMORE 1
CAHIRGUILLAMORE UPR
CAHERGUILLAMORE MID
CAHERGUILLAMORE WEST
BALLYNANTY N
BALLYNANTY MID
BALLYNANTY 2
BALLYNANTY HO
BALLYBANE
ROCKBARTON 1
ROCKBARTON VIEW
ROCKBARTON LR
ROCKBARTON UPR
ROCKBARTON
ROCKBARTON E
ROCKBARTON LWR
CULLABRACK N
HOLYCROSS N
HOLYCROSS LWR
HOLY CROSS
HOLYCROSS W
HOLYCROSS
ARDANREAGH UPR
ARDANREAGH N
ARDANREAGH MIDDLE
ARDANREAGH WEST 1
ARDANREAGH MID
ARDANREAGH
ARDANREAGH LWR
GRILLAGH UPR
TULLABRACKY CRY
LEOS 1
HOLYCROSS S

HIGH VOLTAGE

IF YOU INTEND WORKING, OR UNDERTAKING DEVELOPMENT WITHIN A CORRIDOR EXTENDING 40 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE OVERHEAD LINES OR WITHIN A CORRIDOR EXTENDING 5 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE UNDERGROUND CABLES YOU MUST CONTACT ESB NETWORKS IN ADVANCE OF WORKS AT 1800 372 757 OR EMAIL DIG@ESB.IE TO AGREE SAFE WORKING PROCEDURES AND NECESSARY CLEARANCES BETWEEN THE LINES AND THE DEVELOPMENT IN ADVANCE OF ANY EXCAVATION.

X,Y: 163685 , 138125

ESB Networks

TITLE:

20241023-011_A0_3

COLOUR CODE:

- BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- GREEN - MV(10KV/20KV) OVERHEAD LINES
- BLUE - LV (400V/230V) OVERHEAD LINES
- CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
- RED - MV/LV (10KV/20KV/400V/230V) UNDERGROUND CABLE ROUTES

DATE: 23-Oct-2024

** SCALE: 1:2500

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X,Y: 161714 , 141374

X,Y: 164612 , 141374

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KNOCKFENNELL 1
GRANGE CRY
GRANGE E
GRANGE CHURCH
DANNYS
LOUGH GUR N
RAHEEN MID
ROCKBARTON N
ROCKBARTON 2
GRANGE MID
GRANGE VIEW 1
ROCKBARTON MID
ROCKBARTON S
RAHEEN W
RAHEEN N
LOUGH GUR S
LOUGH GUR M
KILLALOUGH W
LOUGH GUR E
RED BOG N
CARRIGANAFRIN
CARRIGANAFRIN 1
BALLYNAGALLAGH
HOLYCROSS N
HOLYCROSS E
HOLYCROSS LWR
HOLY CROSS
HOLYCROSS MID
HOLYCROSS W

HIGH VOLTAGE

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X,Y: 164612 , 139451

ESB Networks

TITLE:

20241023-011_A0_4

COLOUR CODE:

- BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- GREEN - MV(10KV/20KV) OVERHEAD LINES
- BLUE - LV (400V/230V) OVERHEAD LINES
- CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
- RED - MV/LV (10KV/20KV/400V/230V) UNDERGROUND CABLE ROUTES

DATE: 23-Oct-2024

** SCALE: 1:2500

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X,Y: 161370 , 142926

X,Y: 164268 , 142926

X,Y: 164268 , 141003

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GRANGEHILL E
GRANGE VIEW
GRANGE COTT
GRANGEHILL W
GRANGE HILL
GRANGE HILL 1
GRANGEHILL FARM
KNOCKANURE HO
GRANGEHILL FARM
BALLYFOLEEN 2
KNOCKFENNELL N
KNOCKFENNELL S
KNOCKFENNELL 1
GRANGE CRY.
GRANGE E
BALLINAGOO
BALLINAGOOLA N
BALLINAGOOLA W
KNOCKFENNELL FARM
LOUGH GUR N

ESB Networks

TITLE:

20241023-011_A0_5

COLOUR CODE:

- BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- GREEN - MV(10KV/20KV) OVERHEAD LINES
- BLUE - LV (400V/230V) OVERHEAD LINES
- CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
- RED - MV/LV (10KV/20KV/400V/230V) UNDERGROUND CABLE ROUTES

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WARNING

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(B) CABLE LOCATER EQUIPMENT OPERATED IN BOTH POWER AND RADIO MODES;
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X,Y: 161172 , 144341

X,Y: 164070 , 144341

ESB NETWORKS HAS ISSUED THIS MAP AS A PDF DOCUMENT. IF VIEWING A PAPER VERSION OF THIS MAP, THE VIEWER MUST ENSURE THAT IT HAS BEEN PRINTED IN COLOUR TO FIT TO AN A0 (OR LARGER) PAGESIZE AND THAT EACH OF THE COLOURS INDICATED ON THE COLOUR CODE LEGEND ABOVE ARE CLEAR AND DISTINCT FROM EACH OTHER TO MAINTAIN A CORRECT REPRESENTATION OF THE ELECTRICAL NETWORK INFORMATION.

GRANGE LODGE
RIVER VIEW E
RIVER NEW N
FRIARSTOWN W
SKOOL S
GRANGE
GORTBOY W
GORTBOY
LR. GRANGE
GRANGEHILL NTH.
GRANGEHILL E
GRANGE VIEW
GRANGE COTT
GRANGEHILL W
BALLI
BALLING

HIGH VOLTAGE

IF YOU INTEND WORKING, OR UNDERTAKING DEVELOPMENT WITHIN A CORRIDOR EXTENDING 40 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE OVERHEAD LINES OR WITHIN A CORRIDOR EXTENDING 5 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE UNDERGROUND CABLES YOU MUST CONTACT ESB NETWORKS IN ADVANCE OF WORKS AT 1800 372 757 OR EMAIL DIG@ESB.IE TO AGREE SAFE WORKING PROCEDURES AND NECESSARY CLEARANCES BETWEEN THE LINES AND THE DEVELOPMENT IN ADVANCE OF ANY EXCAVATION.

X,Y: 164070 , 142418

ESB Networks

TITLE:

20241023-011_A0_6

COLOUR CODE:

- BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- GREEN - MV(10KV/20KV) OVERHEAD LINES
- BLUE - LV (400V/230V) OVERHEAD LINES
- CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
- RED - MV/LV (10KV/20KV/400V/230V) UNDERGROUND CABLE ROUTES

DATE: 23-Oct-2024

** SCALE: 1:2500

** SCALE WHEN PRINTED ON AN A0 PAGE
XY COORDINATES DISPLAYED IN IRISH GRID COORDINATE SYSTEM

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X,Y: 161646 , 145940

X,Y: 164544 , 145940

X,Y: 164544 , 144017

LOUGHANSTOWN S

ROCKSTOWN E

ROCKSTOWN MID

ROCKSTOWN W.

SANDVILLE

SANDVILLE RECLOSER

BALLYBLAKE UPR

BALLYBLAKE N

ROCKSTOWN

ROCKSTOWN N

BALLYBLAKE W

BARFRIAR

BALLYBLAKE E

BALLYBLAKE 1

BALLYBLAKE MID

FRIARSTOWN N

ENAGHROE S

OGHADOOLARTY VIEW

SCHOOLHILL UPR.

SCOOLPUMP

SKOOLHILL MID

FEDAMORE CRY

BIOSCIENCE

SKOOL HILL E

SKOOL HILL

SKOOL HILL LWR

FRIARSTOWN SW

FRIARSTOWN GRANGE

FRIARSTOWN STH.

BALLYBLAKE S

GRANGE LODGE

BALLYBLAKE W

BALLYBLAKE E

HIGH VOLTAGE

IF YOU INTEND WORKING, OR UNDERTAKING DEVELOPMENT WITHIN A CORRIDOR EXTENDING 40 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE OVERHEAD LINES OR WITHIN A CORRIDOR EXTENDING 5 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE UNDERGROUND CABLES YOU MUST CONTACT ESB NETWORKS IN ADVANCE OF WORKS AT 1800 372 757 OR EMAIL DIG@ESB.IE TO AGREE SAFE WORKING PROCEDURES AND NECESSARY CLEARANCES BETWEEN THE LINES AND THE DEVELOPMENT IN ADVANCE OF ANY EXCAVATION.

ESB Networks

TITLE:

20241023-011_A0_7

COLOUR CODE:

- BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- GREEN - MV(10KV/20KV) OVERHEAD LINES
- BLUE - LV (400V/230V) OVERHEAD LINES
- CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
- RED - MV/LV (10KV/20KV/400V/230V) UNDERGROUND CABLE ROUTES

DATE: 23-Oct-2024

** SCALE: 1:2500

** SCALE WHEN PRINTED ON AN A0 PAGE
XY COORDINATES DISPLAYED IN IRISH GRID COORDINATE SYSTEM

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X,Y: 161690 , 147492

X,Y: 164589 , 147492

X,Y: 164589 , 145569

LUDDENMORE
SHEAHANS FARM
LUDDENMORE W
CARNANE E
BALLYNAGARDE HILL
BALLINAGARDE S
CARRIGANATTIN 1
CARRIGANATTIN N
CARRIGANATTIN W
CARRIGANATTIN 2
MR BINMAN
SKEHANS CROSS
ROCHESTOWN
ROCHESTOWN MID
ROCHESVILLE
BALLYHEAG
SANDVILLE
BALLYBRICKEN LWR
BALLYBRICKEN S
BALLYBRICKEN M E
LOUGHANSTOWN E
ROCKSTOWN HO
ROCHESCON
ROCKSTOWN
DONLOUGH
LOUGHANSTOWN LOWER
LOUGHANSTOWN S
ROCKSTOWN E
ROCKSTOWN MID
ROCKSTOWN W
SANDVILLE RECLOSER
BALLYBLAKE UPR
BALLYBLAKE N
TOWN W
70/50 AYCY
150 XLP
300 AYCY
35/25 AYCY

HIGH VOLTAGE

IF YOU INTEND WORKING, OR UNDERTAKING DEVELOPMENT WITHIN A CORRIDOR EXTENDING 40 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE OVERHEAD LINES OR WITHIN A CORRIDOR EXTENDING 5 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE UNDERGROUND CABLES YOU MUST CONTACT ESB NETWORKS IN ADVANCE OF WORKS AT 1800 372 757 OR EMAIL DIG@ESB.IE TO AGREE SAFE WORKING PROCEDURES AND NECESSARY CLEARANCES BETWEEN THE LINES AND THE DEVELOPMENT IN ADVANCE OF ANY EXCAVATION.

ESB Networks

TITLE:

20241023-011_A0_8

COLOUR CODE:

- BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- GREEN - MV(10KV/20KV) OVERHEAD LINES
- BLUE - LV (400V/230V) OVERHEAD LINES
- CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
- RED - MV/LV (10KV/20KV/400V/230V) UNDERGROUND CABLE ROUTES

DATE: 23-Oct-2024

** SCALE: 1:2500

** SCALE WHEN PRINTED ON AN A0 PAGE
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X,Y: 161608 , 149122

X,Y: 164507 , 149122

X,Y: 164507 , 147199

BALLYMACREESE W
THE GLEN BALLYNEETY
BALLYMACREESE HILL
BALLYMACREESE S
BALLYMACREESE SW
GOLF CLUB TR. PLANT
BALLYNAGARDE FARM
BALLYNAGARDA N
BALLINAGARDE CASTLE
BALLINFREY
BALLYNAGARDE FIELD
BALUNAGARDE
BALLUNGARDE E
BALLINCON
BALLINAGARDE MID
STONEPARK UPR
STONEPARK
STONEPARK E
STONEPARK S
STONEPARK SE
STONEWYER
EIRCELL METEOR
LUDDENMORE
SHEAHANS FARM
LUDDENBEG S
MR BINMAN

3X70AL
70/50 AYCY

HIGH VOLTAGE

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ESB Networks

TITLE:

20241023-011_A0_9

COLOUR CODE:

- BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- GREEN - MV(10KV/20KV) OVERHEAD LINES
- BLUE - LV (400V/230V) OVERHEAD LINES
- CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
- RED - MV/LV (10KV/20KV/400V/230V) UNDERGROUND CABLE ROUTES

DATE: 23-Oct-2024

** SCALE: 1:2500

** SCALE WHEN PRINTED ON AN A0 PAGE
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X,Y: 161288 , 150800

X,Y: 164186 , 150800

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NOCKEA SCH
CARRIG MARTIN W
BALLYOGARTHA N
BALLYOGARTHA E
BALLYOGARTHA
BALLYOGARTHA S
KNOCKBRIEN N
EDWARDSTOWN
BALLYNEETY WOOD
BALLYNEETY HO
ROSSARD S
KILCULLEEN
KNOCKBRIEN
ISHKA WATER
SHELTON
BALLYNEETY
BALLYNEETY CH
BELLEWOOD
EURO PROV
BALLYNEETY CRY
BALLYNEETY HSES TEMP
LIMK COUNTY GOLFCLUB
BALLYMACREESE W
BALLYMACREESE N
BALLYMACREESE
BALLYMACREESE E
BALLYNEETY E
BALLYNEETY LR
EDWARDSTOWN W
EDWARDSTOWN E
GLEN W
GLEN MID
GLENVIEW
KNOCKEA S
KNOCKEA E

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X,Y: 164186 , 146876

ESB Networks

TITLE:

20241023-011_A0_10

COLOUR CODE:

- BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- GREEN - MV(10KV/20KV) OVERHEAD LINES
- BLUE - LV (400V/230V) OVERHEAD LINES
- CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
- RED - MV/LV (10KV/20KV/400V/230V) UNDERGROUND CABLE ROUTES

DATE: 23-Oct-2024

** SCALE: 1:2500

** SCALE WHEN PRINTED ON AN A0 PAGE
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X,Y: 160643 , 152375

X,Y: 163542 , 152375

X,Y: 163542 , 150452

DROMBANNY N
BALLYBRENNAN LR
BALLYBRENNAN S
DROMBANNY
DROMBANNY CASTLE
DROMBANNY BR
DROMNEIL
SHORTTS STEEL
DROMBANNY S
DROMEAN
DROMBANNY LWR
DROMNEILL
DROMBANNY VIEW
LICKADOON UPR
LICKADOON N
LICKHDOON E
KNOCKEA SCH
BALLYOGARTHA N
BALLYOGARTHA E
CAHERNARRY W
CAHERNARRY
CARRIGMARTIN VIEW
CARRIG MARTIN E
CARRIG MARTIN W
COOLREAGH W
COOLREAGH E
COOLREAGH
COOLREAGH N
COOLREAGH MID
COOLREAGH S
SCARTHAN
SCARTMELL
SCARTKAV
SCART N
SCART W
SCART LW
ROSSARD M
CARRI

70/50 AYCY
120/70 AYCY
300 AL/39R
630 AL/39R
2 X 95 ABC
35 AYCY

HIGH VOLTAGE

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ESB Networks

TITLE:

20241023-011_A0_11

COLOUR CODE:

- BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- GREEN - MV(10KV/20KV) OVERHEAD LINES
- BLUE - LV (400V/230V) OVERHEAD LINES
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DATE: 23-Oct-2024

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X,Y: 160459 , 153681

X,Y: 163358 , 153681

X,Y: 163358 , 151758

DROMBANNY FARM
KNOCK
BALLYBRENNAN
DROMHEG
BALLYBRENNAN M
BALLYBRENNAN N
BALLYBRENNAN E
BALLYBRENNAN X
CAHERNARRY UPR.
CAHERNARRY WELL
CAHERNARRY N
CAHERNARRY MID W
CAHERNARRY LR
CAHERNARRY S
CAHERNARRY FIELD
CAHERNARRY MID
CAHERNARRY W
CAHERNARRY
CAHERNARRY E
RYNARRY
BROETOOR
TOOREEN W
TOOREEN
TOOREEN S
TOOREEN LWR
COOLISHAL W
COOLREAGH N
DROMBANNY UPR
DROMBAN. CRY
DROMBANNY CLOSE
DROMBANNY E
DROMBANNY N
BALLYBRENNAN LR
BALLYBRENNAN S
DROMBANNY
DROMBANNY CASTLE
DROMBANNY BR
DROMBANNY S
DROMNEIL
SHORTTS STEEL
DROMEAN
BALLYBRENNAN W
4X70 XLP
3X1/70 XLP
70/50 AYCY
300 ACSR
43H STEEL

HIGH VOLTAGE

IF YOU INTEND WORKING, OR UNDERTAKING DEVELOPMENT WITHIN A CORRIDOR EXTENDING 40 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE OVERHEAD LINES OR WITHIN A CORRIDOR EXTENDING 5 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE UNDERGROUND CABLES YOU MUST CONTACT ESB NETWORKS IN ADVANCE OF WORKS AT 1800 372 757 OR EMAIL DIG@ESB.IE TO AGREE SAFE WORKING PROCEDURES AND NECESSARY CLEARANCES BETWEEN THE LINES AND THE DEVELOPMENT IN ADVANCE OF ANY EXCAVATION.

ESB Networks

TITLE:

20241023-011_A0_12

COLOUR CODE:

- BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- GREEN - MV(10KV/20KV) OVERHEAD LINES
- BLUE - LV (400V/230V) OVERHEAD LINES
- CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
- RED - MV/LV (10KV/20KV/400V/230V) UNDERGROUND CABLE ROUTES

DATE: 23-Oct-2024

** SCALE: 1:2500

** SCALE WHEN PRINTED ON AN A0 PAGE
XY COORDINATES DISPLAYED IN IRISH GRID COORDINATE SYSTEM

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WARNING

THIS MAP INDICATES THE APPROXIMATE LOCATION OF ESB TRANSMISSION (400KV, 220KV, 110KV, 38KV) AND DISTRIBUTION (20KV, 10KV, 230V/400V) UNDERGROUND CABLES AND OVERHEAD LINES IN THE GENERAL AREA OF THE PROPOSED WORKS. ESB NETWORKS TAKES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE MAP. IT IS THE USER'S RESPONSIBILITY TO INDEPENDENTLY VERIFY THE INFORMATION AND THE LOCATION OF UNDERGROUND CABLES AND OVERHEAD LINES. LOW VOLTAGE (230V/400V) SERVICE CABLES (E.G. HOUSE SERVICES, FACTORY/SHOP SERVICES, PUBLIC LIGHTING LAMP SERVICES, ETC) ARE NOT INCLUDED BUT THEIR PRESENCE SHOULD BE ANTICIPATED. THE DEPTHS OF UNDERGROUND CABLES MUST NEVER BE ASSUMED. BEFORE ANY MECHANICAL EXCAVATION IS UNDERTAKEN, THE ACTUAL LOCATION OF ALL UNDERGROUND ELECTRICITY CABLES MUST BE ESTABLISHED AND VERIFIED ON THE SITE USING:
(A) UP-TO-DATE MAP RECORDS;
(B) CABLE LOCATER EQUIPMENT OPERATED IN BOTH POWER AND RADIO MODES;
(C) CAREFUL HAND DIGGING OF TRIAL HOLES USING 'SAFE DIGGING PRACTICE'.
REFER ALSO TO 'HSA CODE OF PRACTICE FOR AVOIDING DANGER FROM UNDERGROUND SERVICES'.
ESB TAKES NO RESPONSIBILITY FOR AND SHALL BEAR NO LIABILITY, HOWSOEVER ARISING, IN RELATION TO ANY DAMAGE, INJURY/DEATH OR LOSS OF SUPPLY AS A RESULT OF DAMAGE OR INTERFERENCE WITH ITS NETWORKS.

ESB NETWORKS HAS ISSUED THIS MAP AS A PDF DOCUMENT. IF VIEWING A PAPER VERSION OF THIS MAP, THE VIEWER MUST ENSURE THAT IT HAS BEEN PRINTED IN COLOUR TO FIT TO AN A0 (OR LARGER) PAGESIZE AND THAT EACH OF THE COLOURS INDICATED ON THE COLOUR CODE LEGEND ABOVE ARE CLEAR AND DISTINCT FROM EACH OTHER TO MAINTAIN A CORRECT REPRESENTATION OF THE ELECTRICAL NETWORK INFORMATION.

X,Y: 160974 , 155052

X,Y: 163873 , 155052

X,Y: 163873 , 153129

HIGH VOLTAGE

IF YOU INTEND WORKING, OR UNDERTAKING DEVELOPMENT WITHIN A CORRIDOR EXTENDING 40 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE OVERHEAD LINES OR WITHIN A CORRIDOR EXTENDING 5 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE UNDERGROUND CABLES YOU MUST CONTACT ESB NETWORKS IN ADVANCE OF WORKS AT 1800 372 757 OR EMAIL DIG@ESB.IE TO AGREE SAFE WORKING PROCEDURES AND NECESSARY CLEARANCES BETWEEN THE LINES AND THE DEVELOPMENT IN ADVANCE OF ANY EXCAVATION.

KNOCKANANTY N
KNOCKANANTY
COOLYHENAN
COOLYHENAN HO
COOLYHEENAN W
COOLYHENAN NORTH
COOLYHEENAN S
KNOCKANANTY FARM
KNOCKANANTY HO
BALLYBRENNAN N
WHITEHALL N
WHITEHALL RIVER
KILLONAN BR
COOLISHAL W
COOLISHAL E
300 ACSR
430 ACSR
200 ACSR
439 HTLS
14x100 XLP

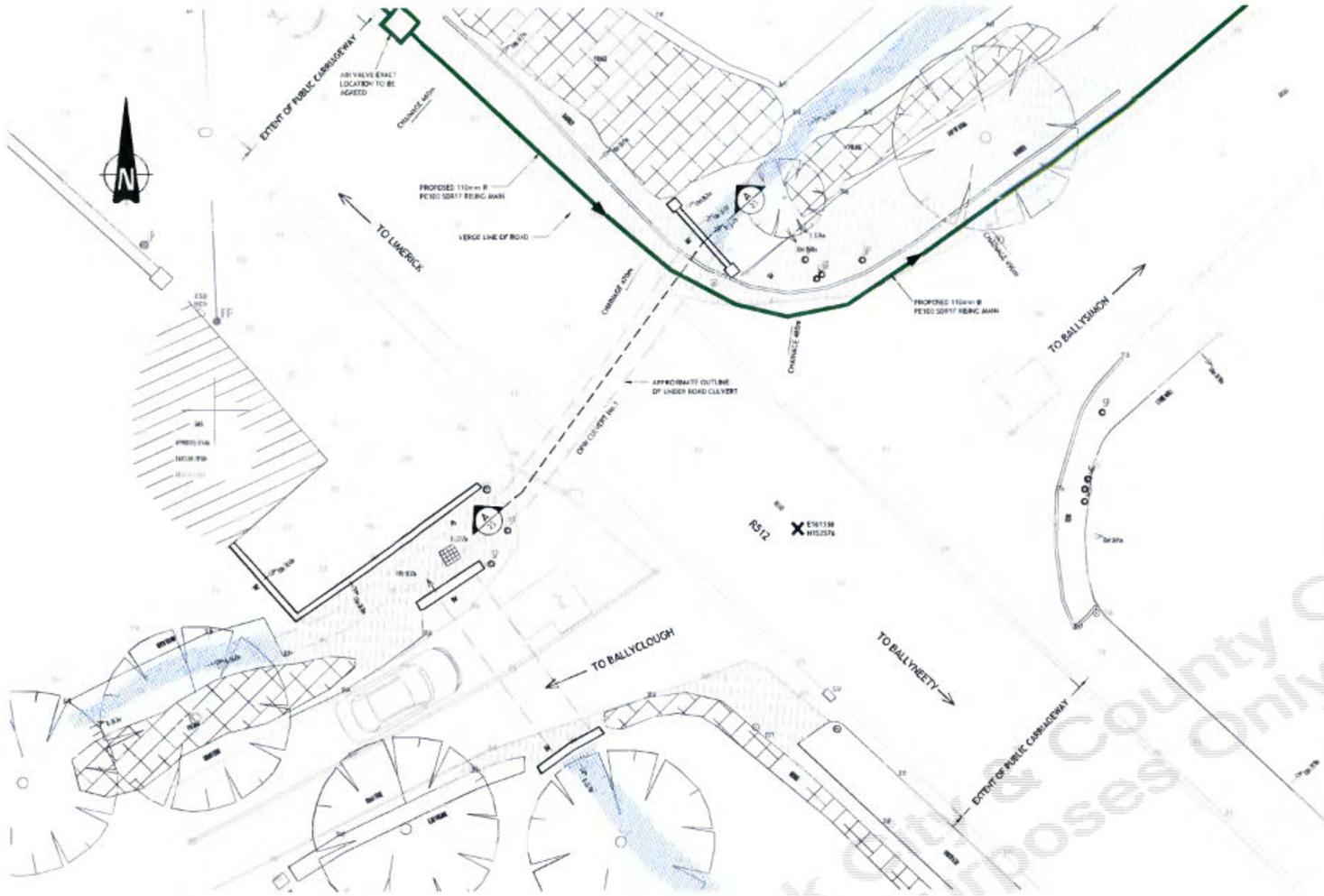
Appendix 3
Shannonside Galv Pumped Rising Foul Sewer

NOTES:-

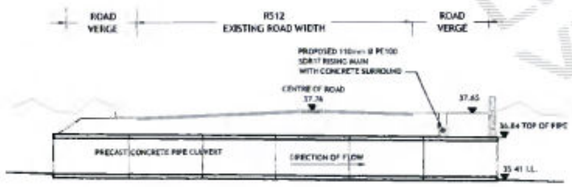
1. ALL LEVELS RELATE TO MALIN HEAD DATUM.
2. ALL DIMENSIONS IN METERS UNLESS OTHERWISE STATED.
3. DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS ONLY. IF IN DOUBT, ASK.

LEGEND : -

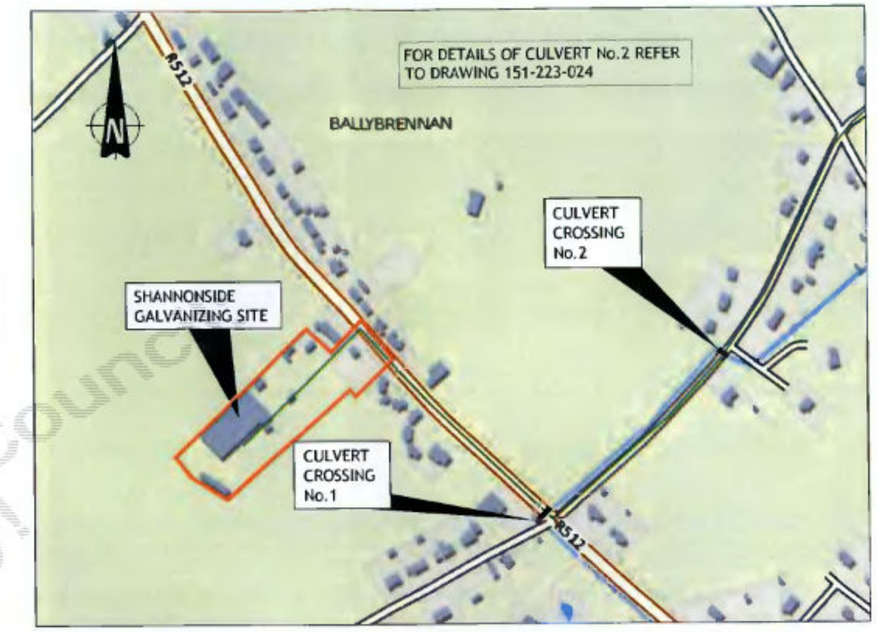
PROPOSED 110mm DIA PE100 SDR17 RISING MAIN



LAYOUT PLAN - CULVERT CROSSING No.1
Scale 1:100



A (023) CULVERT No.1 : SECTION A-A
Scale 1:100



SITE LOCATION MAP
Not To Scale

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Tech. Check	P.J. Mulcahy
Eng. Check	Joe O'Brien
Approved	Pat Murphy

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REV.	AMENDMENT	BY	DATE

Job: SHANNONSIDE GALVANIZING P.S. & RISING MAIN PLANNING APPLICATION
Title: SECTION THROUGH OPW CULVERT No.1 AT PROPOSED RISING MAIN CROSSING

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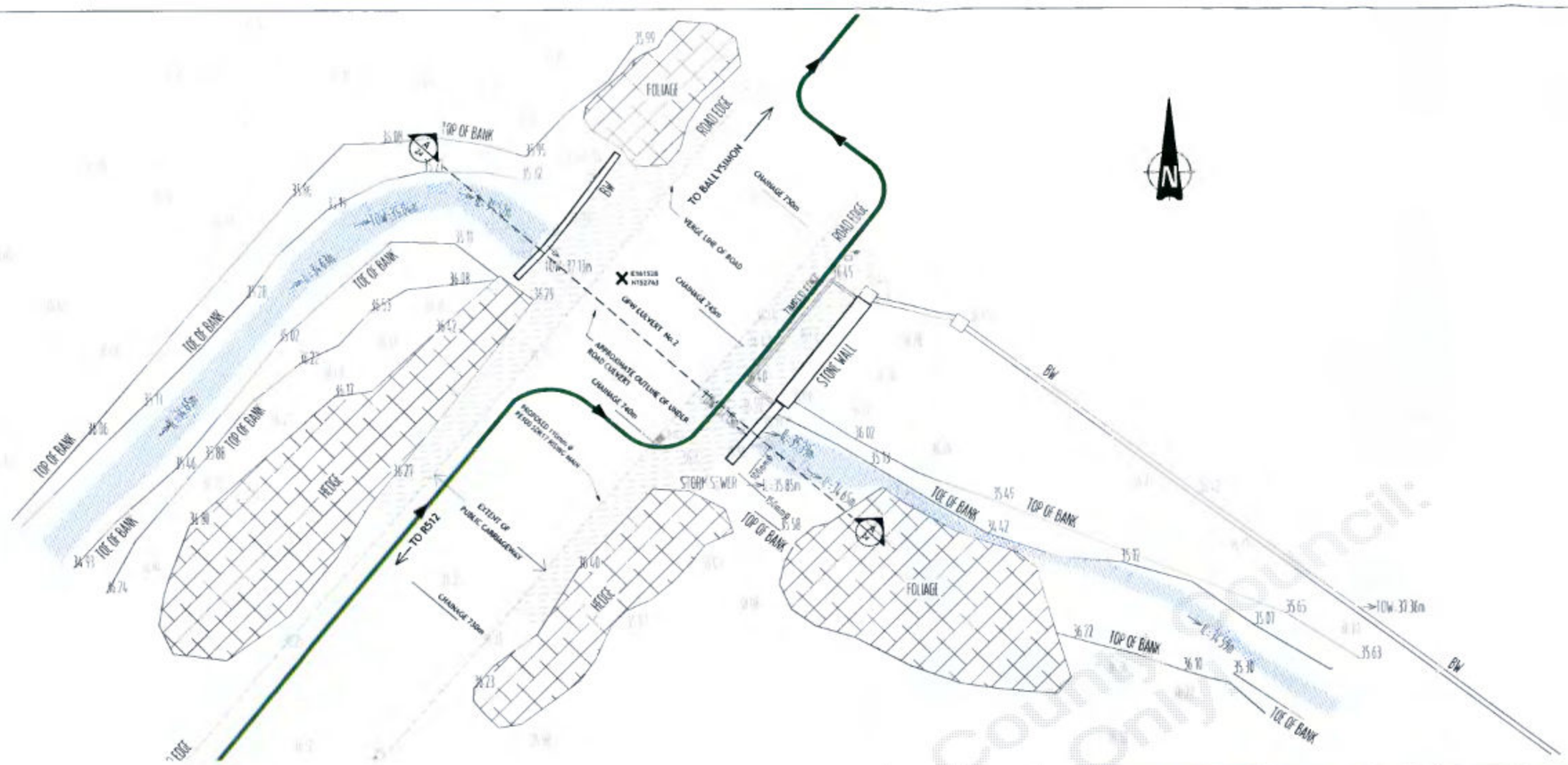
Drawn:	PRC/MMcM
Scale (A1):	1:500
Sheet:	B O'Herlihy
Date:	04-12-2015
Drawing No:	151-223-023
Rev:	PR0

NOTES:-

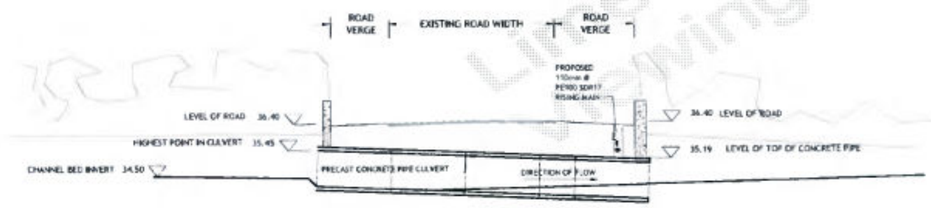
1. ALL LEVELS RELATE TO MALIN HEAD DATUM.
2. ALL DIMENSIONS IN METERS UNLESS OTHERWISE STATED.
3. DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS ONLY. IF IN DOUBT, ASK.

LEGEND : -

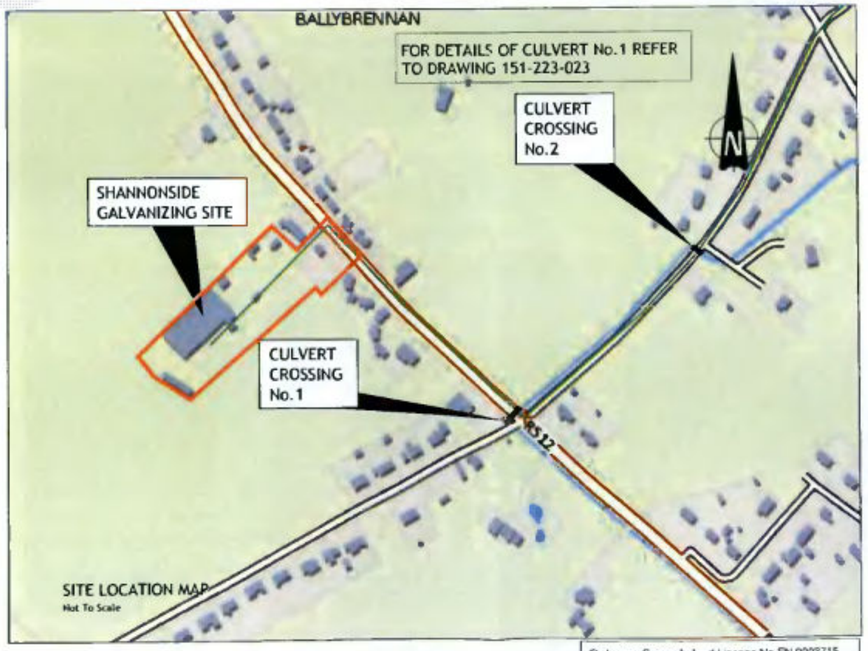
PROPOSED 110mm DIA PE100 SDR17 RISING MAIN



LAYOUT PLAN - CULVERT CROSSING No.2
Scale 1:100



A / 024 CULVERT No.2 : SECTION A-A
Scale 1:100



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REV.	AMENDMENT	BY	DATE

Job: SHANNONSIDE GALVANIZING P.S. & RISING MAIN PLANNING APPLICATION
Title: SECTION THROUGH OPW CULVERT No.2 AT PROPOSED RISING MAIN CROSSING

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Tech. Check:	P.J. Mulcahy
Eng. Check:	J.O'Brien
Approved:	P.Murphy
Stage:	PRELIMINARY
scale (@A1):	1:100
Drawn:	B.O'Hanlon
Date:	04-12-2015
Drawing No:	151-223-024
Rev:	PR0

NOTES:-

1. ALL LEVELS RELATE TO MALIN HEAD DATUM.
2. ALL DIMENSIONS IN METERS UNLESS OTHERWISE STATED.
3. SITE BOUNDARY OUTLINED IN RED
4. DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS ONLY. IF IN DOUBT, ASK.
5. ONLY THE PRINCIPAL EXISTING SERVICES AND FEATURES HAVE BEEN INDICATED WITH APPROXIMATE LOCATIONS. ACTUAL POSITIONS SHALL BE ESTABLISHED AND VERIFIED ON SITE.
6. SURVEY DRAWING RECEIVED ON 26-05-2015 FROM PPE ENVIRONMENTAL CONSULTANTS.
7. TOTAL LENGTH OF RISING MAIN IS 4065m
8. SEE DRAWING NO. 151-223-005 FOR RISING MAIN LONGITUDINAL SECTIONS

LEGEND:-

SITE BOUNDARY INDICATED THUS

PROPOSED 110mm Ø PE100 SDR17 RISING MAIN INDICATED THUS

PROPOSED AIR VALVE — AV

PROPOSED SCOUR VALVE — ScV

NODE POINT ON PLAN/SECTION — A



KEY PLAN
Not to Scale

KNOCKANANTY
Cnocán na Neanta

COOLYHENAN
Cúil Uí Sheighneáin

BALLYBRENNAN
Baile Uí Bhraonáin

CAHERNARRY
(Keane)
Carn Fheararaigh
(Keane)

PROPOSED 110mm Ø PE100 SDR17 RISING MAIN

EXISTING CULVERT CROSSING.

EXISTING CULVERT CROSSING.

MATCH POINT

Eircom MH

Eircom MH

Eircom MH

Area under construction june 2014

FOR PLANNING PURPOSES ONLY

RISINGMAIN LAYOUT PLAN
Scale 1:2,000

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Tech. Check:	N. Lynch
Eng. Check:	J. O'Brien
Approved:	J. O' Brien

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REV.	AMENDMENT	BY	DATE
PL0	ISSUED FOR PLANNING	BOH	15-07-2015
PL1	RESPONSE TO FURTHER INFORMATION REQUEST	BOH	01-02-2016

Job:	SHANNONSIDE GALVANIZING P.S. & RISING MAIN PLANNING APPLICATION
Title:	PROPOSED RISING MAIN - SHEET 1 OF 2

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Stage:	PLANNING
Scale @A1:	1:2,000
Drawn:	N. Lynch
Date:	2015-06-24
Drawing No:	151-223-003
Rev:	PL1

EXISTING 450mm Ø SEWER

PROPOSED SURGE MANHOLE AS DETAILED ON DRAWING NO. 151-233-010

EXISTING FOUL MANHOLE AS DETAILED ON DRAWING NO. 151-233-012
C.L = 11.54m
I.L = 8.74m

PROPOSED 110mm Ø PE100 SDR17 RISING MAIN

BALLYSIMON (Dickson)
Béal Átha Síomoin (Dickson)

ON (Staunton)
omoin (Staunton)

KNOCKANANTY
Cnocán na Neanta

BALLYSIMON COMMONS
Coimín Bhéal Átha Síomoin

KNOCKANANTY
Cnocán na Neanta

NOTES:-

1. ALL LEVELS RELATE TO MALIN HEAD DATUM.
2. ALL DIMENSIONS IN METERS UNLESS OTHERWISE STATED.
3. SITE BOUNDARY OUTLINED IN RED
4. DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS ONLY. IF IN DOUBT, ASK.
5. ONLY THE PRINCIPAL EXISTING SERVICES AND FEATURES HAVE BEEN INDICATED WITH APPROXIMATE LOCATIONS. ACTUAL POSITIONS SHALL BE ESTABLISHED AND VERIFIED ON SITE.
6. SURVEY DRAWING RECEIVED ON 26-05-2015 FROM PPE ENVIRONMENTAL CONSULTANTS.
7. TOTAL LENGTH OF RISING MAIN IS 4065m
8. SEE DRAWING NO. 151-223-005 FOR RISING MAIN LONGITUDINAL SECTIONS

LEGEND:-

PROPOSED 110mm Ø PE100 SDR17 RISING MAIN INDICATED THUS

PROPOSED AIR VALVE — AV

PROPOSED SCOUR VALVE — ScV

NODE POINT ON PLAN/SECTION — A

RISING MAIN SHEET 2

RISING MAIN SHEET 1

SITE LAYOUT PLAN

KEY PLAN
Not to Scale

FOR PLANNING PURPOSES ONLY

RISINGMAIN LAYOUT PLAN
Scale 1:2,000

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Tech. Check:	N. Lynch
Eng. Check:	J. O' Brien
Approved:	J. O' Brien

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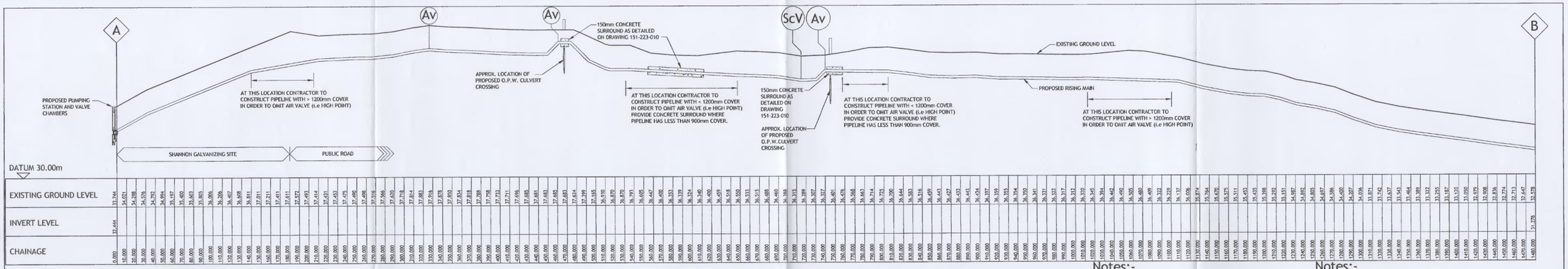
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REV.	AMENDMENT	BY	DATE
PL0	ISSUED FOR PLANNING	BOH	15-07-2015
PL1	RESPONSE TO FURTHER INFORMATION REQUEST	BOH	01-02-2016

Job:	SHANNONSIDE GALVANIZING P.S. & RISING MAIN PLANNING APPLICATION
Title:	PROPOSED RISING MAIN - SHEET 2 OF 2

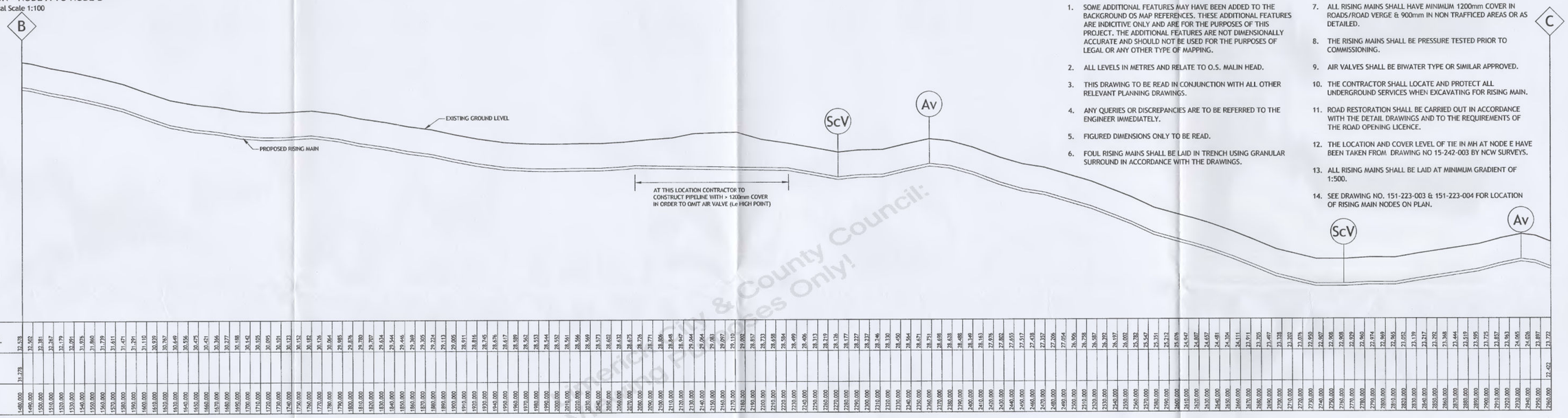
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Stage:	PLANNING
Scale @A1:	1:2,000
Drawn:	N. Lynch
Date:	2015-06-24
Drawing No:	151-223-004
Rev:	PL1



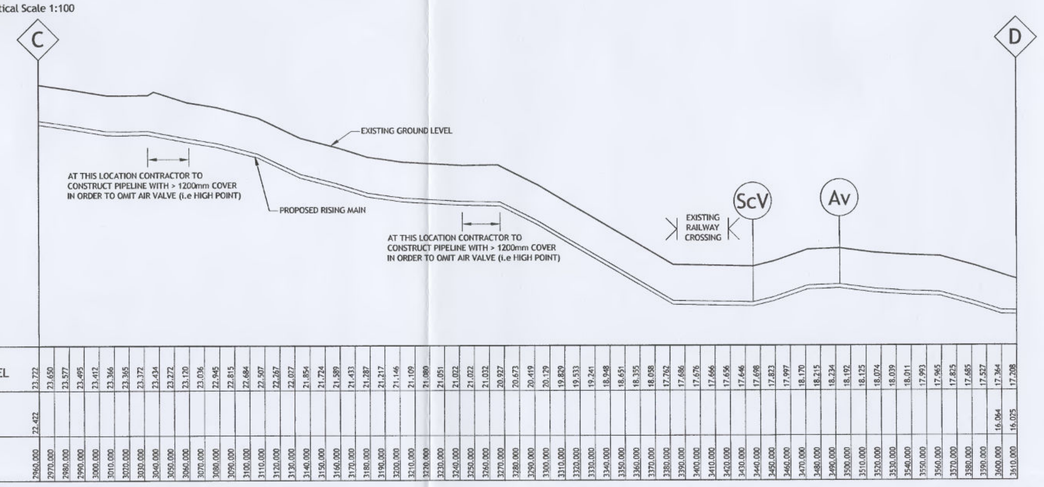
LONGITUDINAL SECTION - NODE A TO NODE B

Horizontal Scale 1:2,000 Vertical Scale 1:100



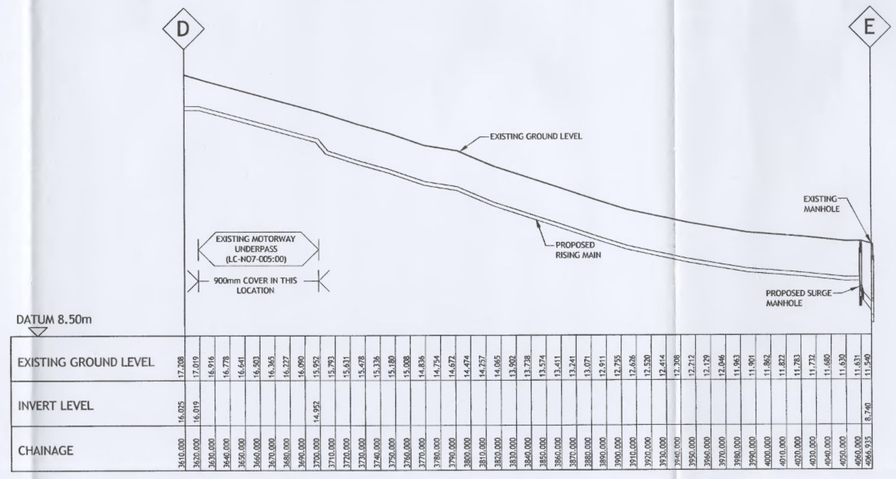
LONGITUDINAL SECTION - NODE B TO NODE C

Horizontal Scale 1:2,000 Vertical Scale 1:100



LONGITUDINAL SECTION - NODE C TO NODE D

Horizontal Scale 1:2,000 Vertical Scale 1:100



LONGITUDINAL SECTION - NODE D TO NODE E

Horizontal Scale 1:2,000 Vertical Scale 1:100

Notes:-

1. SOME ADDITIONAL FEATURES MAY HAVE BEEN ADDED TO THE BACKGROUND OS MAP REFERENCES. THESE ADDITIONAL FEATURES ARE INDICITIVE ONLY AND ARE FOR THE PURPOSES OF THIS PROJECT. THE ADDITIONAL FEATURES ARE NOT DIMENSIONALLY ACCURATE AND SHOULD NOT BE USED FOR THE PURPOSES OF LEGAL OR ANY OTHER TYPE OF MAPPING.
2. ALL LEVELS IN METRES AND RELATE TO O.S. MALIN HEAD.
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT PLANNING DRAWINGS.
4. ANY QUERIES OR DISCREPANCIES ARE TO BE REFERRED TO THE ENGINEER IMMEDIATELY.
5. FIGURED DIMENSIONS ONLY TO BE READ.
6. FOUL RISING MAINS SHALL BE LAID IN TRENCH USING GRANULAR SURROUND IN ACCORDANCE WITH THE DRAWINGS.

Notes:-

7. ALL RISING MAINS SHALL HAVE MINIMUM 1200mm COVER IN ROADS/ROAD VERGE & 900mm IN NON TRAFFICED AREAS OR AS DETAILED.
8. THE RISING MAINS SHALL BE PRESSURE TESTED PRIOR TO COMMISSIONING.
9. AIR VALVES SHALL BE BIWATER TYPE OR SIMILAR APPROVED.
10. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL UNDERGROUND SERVICES WHEN EXCAVATING FOR RISING MAIN.
11. ROAD RESTORATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DETAIL DRAWINGS AND TO THE REQUIREMENTS OF THE ROAD OPENING LICENCE.
12. THE LOCATION AND COVER LEVEL OF TIE IN MH AT NODE E HAVE BEEN TAKEN FROM DRAWING NO 15-242-003 BY NCW SURVEYS.
13. ALL RISING MAINS SHALL BE LAID AT MINIMUM GRADIENT OF 1:500.
14. SEE DRAWING NO. 151-223-003 & 151-223-004 FOR LOCATION OF RISING MAIN NODES ON PLAN.

Legend:-

- A - NODE POINT ON PLAN / SECTION
- Av - AIR VALVE
- ScV - SCOUR VALVE

FOR PLANNING PURPOSES ONLY

Tech. Check:	N. Lynch
Eng. Check:	J. O'Brien
Approved:	J. O'Brien

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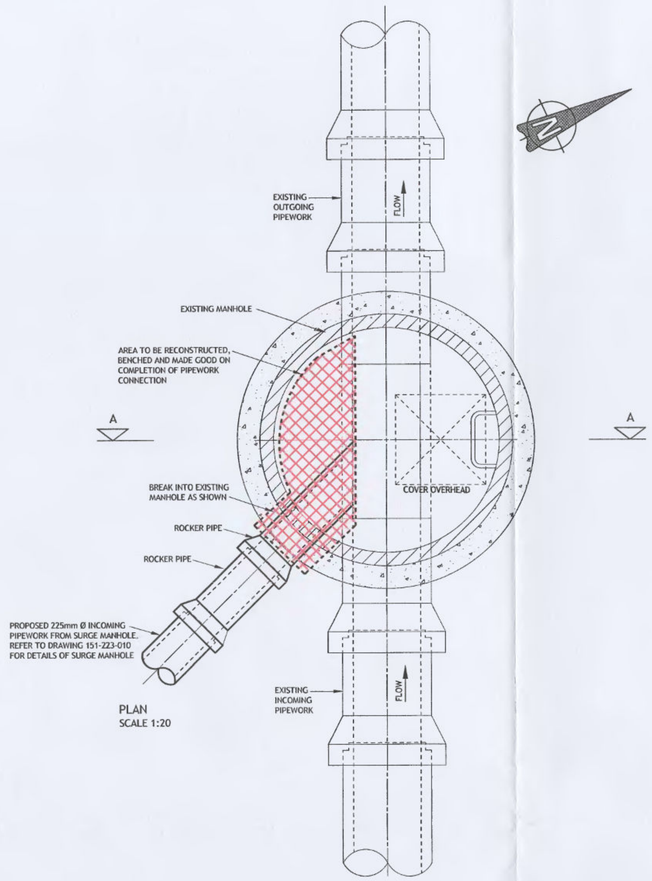
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REV.	AMENDMENT	BY	DATE

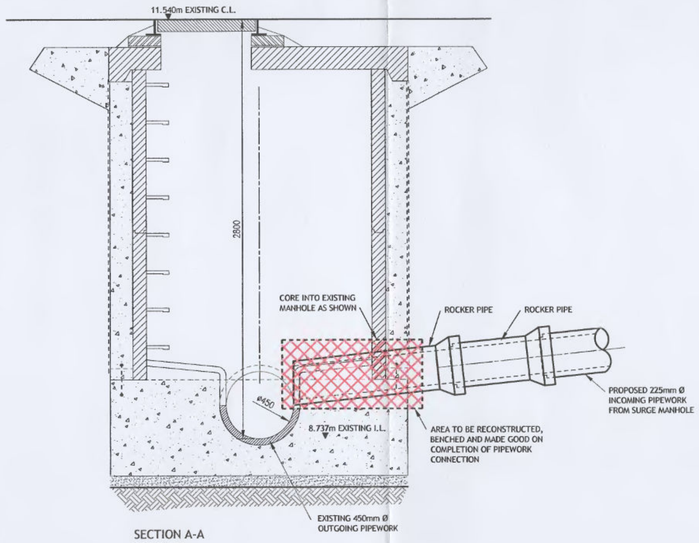
Job:	SHANNONSIDE GALVANIZING P.S. & RISING MAIN PLANNING APPLICATION
Title:	FOUL RISING MAIN LONGITUDIONAL SECTIONS

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Stage:	PLANNING
Scale @A1:	AS SHOWN
Drawn:	N. Lynch
Date:	27/10/2015
Drawing No:	151-223-005
Rev:	PL0



PLAN
SCALE 1:20



SECTION A-A
SCALE 1:20

MANHOLE TIE-IN DETAIL
SCALE 1:20



LAYOUT PLAN - PROPOSED RISING MAIN TIE-IN LOCATION
Scale 1:500

Limerick City & County Council.
Viewing Purposes Only!

LEGEND:-

NODE POINT ON PLAN — A

PROPOSED 110mm Ø PE100 SDR17 RISING MAIN INDICATED THUS

PROPOSED 225mm Ø GRAVITY SEWER INDICATED THUS

EXISTING FOUL SEWER INDICATED THUS

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Tech. Check:	Niall Lynch
Eng. Check:	J. O' Brien
Approved:	J. O' Brien

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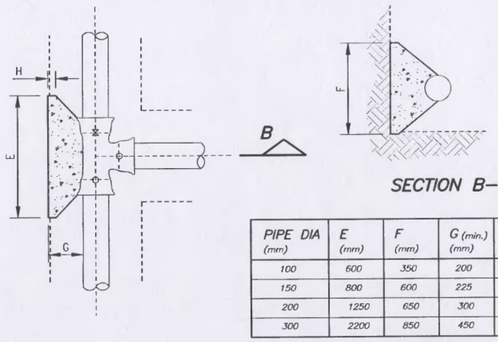
Figured dimension only to be taken from this drawing. All dimensions to be checked on site. Consultants to be informed immediately of any discrepancies before work proceeds.

REV.	AMENDMENT	BY	DATE

Job:	SHANNONSIDE GALVANIZING P.S + R.M PLANNING APPLICATION
Title:	TYPICAL DETAILS - CIVILS - SHEET 3

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Copley Hall, Cotters Street, Cork, Ireland t +353 21 462 4000 | f +353 21 462 4001 | e cork@punchconsulting.com
www.punchconsulting.com

Stage:	PLANNING
Scale @A1:	AS SHOWN
Drawn:	N. LYNCH
Date:	12-11-2015
Drawing No:	151-223-012
Rev:	PL0

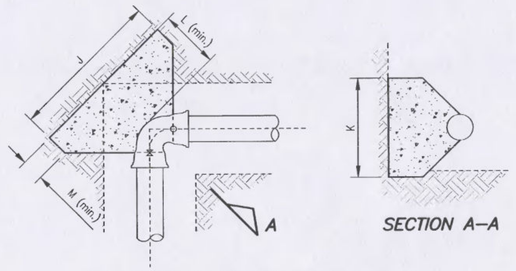


SECTION B–B

PIPE DIA (mm)	E (mm)	F (mm)	G (min.) (mm)	H (min.) (mm)
100	600	350	200	50
150	800	600	225	50
200	1250	650	300	50
300	2200	850	450	50

THRUST BLOCK – ON TEE

– THRUST BLOCK ON TEE

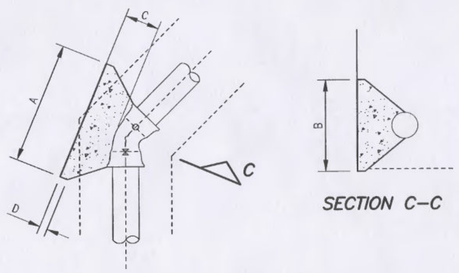


SECTION A–A

PIPE DIA (mm)	J (mm)	K (mm)	L (min.) (mm)	M (min.) (mm)
100	650	450	200	50
150	1000	650	225	50
200	1450	800	225	50
300	2900	900	450	50

THRUST BLOCK – 90° BEND

– THRUST BLOCK ON 90° BEND

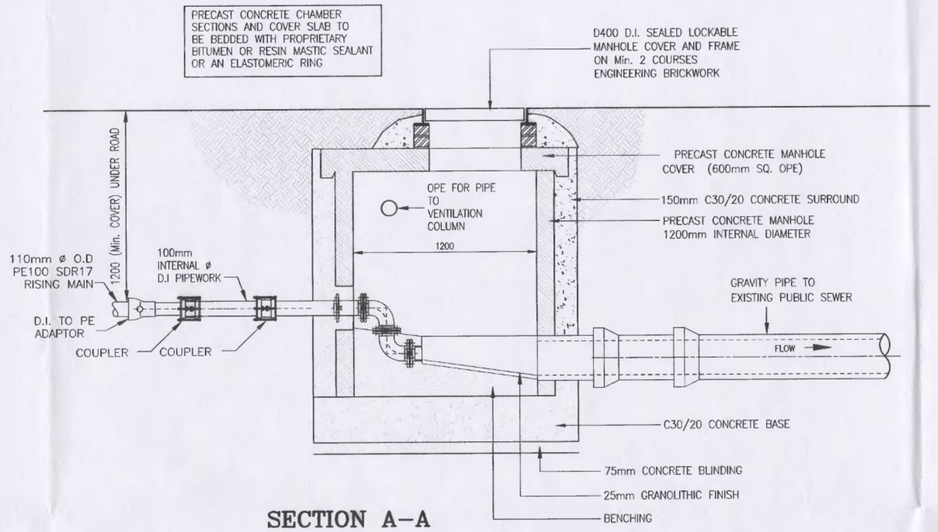


SECTION C–C

PIPE DIA (mm)	A (mm)	B (mm)	C (min.) (mm)	D (min.) (mm)
100	450	350	200	50
150	800	450	225	50
200	1000	650	225	50
300	1650	850	450	50

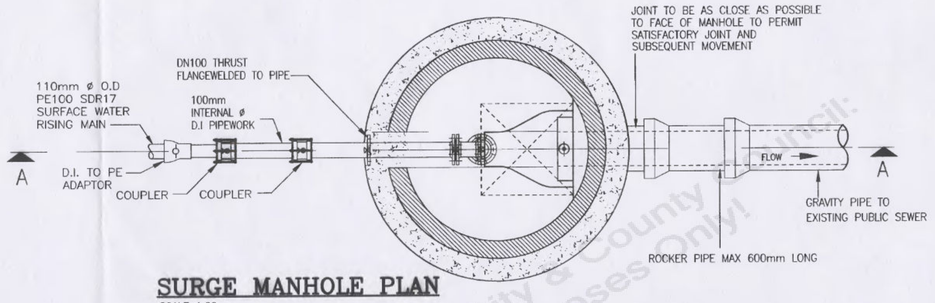
THRUST BLOCK – 45° BEND

– THRUST BLOCK ON 22.5° OR 45° BEND



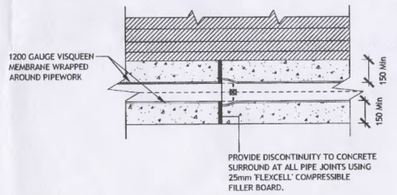
SECTION A–A

SCALE 1:20



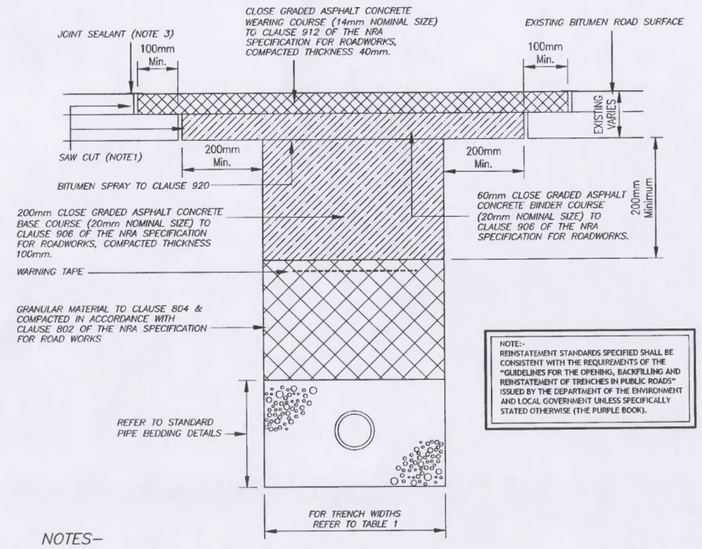
SURGE MANHOLE PLAN

SCALE 1:20



DETAIL OF CONCRETE SURROUND TO PIPELINES

SCALE 1:20 @ A1

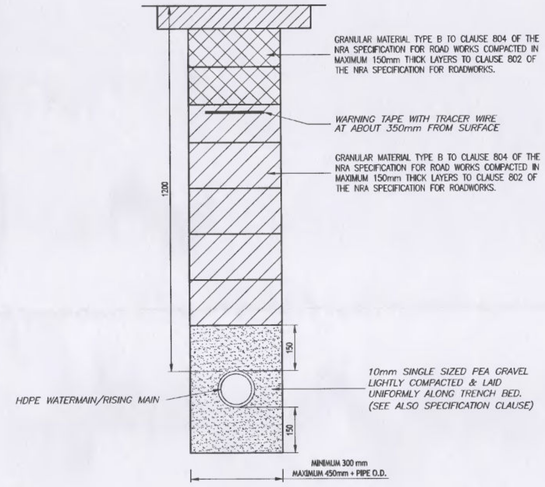


NOTES–

1. ALL EDGES OF EXCAVATED AREA TO BE SAW CUT AS DETAILED.
2. 100°C HOT BITUMEN BINDER 50 PEN OR COLD THIOTROPIC BITUMEN 50–70 PEN TO BE APPLIED TO ALL VERTICAL CUTS IN ACCORDANCE WITH BS 594 PRIOR TO THE APPLICATION OF SURFACE LAYERS.
3. JOINTS SEALED WITH HOT BITUMEN AND TOPPED WITH FINE SAND/GRIT TO GET A MINIMUM 55 SKID RESISTANCE VALUE AS DETERMINED BY THE PORTABLE SKID RESISTANCE PENDULUM SHALL NOT EXCEED 3mm THICKNESS AND A WIDTH OF 40mm.

PERMANENT TRENCH REINSTATEMENT IN BITUMEN ROADS WITH D.B.M. BASE COURSE AND D.B.M. WEARING COURSE

NOT TO SCALE



RISING MAIN/WATERMAIN DETAILS

SCALE 1:10.

Limerick City & County Council: Viewing Purposes Only!

FOR PLANNING PURPOSES ONLY

Tech. Check:	N. Lynch
Eng. Check:	J. O' Brien
Approved:	J. O' Brien

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Figured dimension only to be taken from this drawing. All dimensions to be checked on site. Consultants to be informed immediately of any discrepancies before work proceeds.

REV.	AMENDMENT	BY	DATE
PL0	ISSUED FOR PLANNING	BOH	15-07-2015
PL1	RESPONSE TO FURTHER INFORMATION REQUEST	BOH	01-02-2016

Job:	SHANNONSIDE GALVANIZING P.S + R.M PLANNING APPLICATION
Title:	TYPICAL DETAILS - CIVILS - SHEET 1

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97 Henry Street, Limerick, Ireland t +353 61 221 200 | f +353 61 221 201 | e limerick@punchconsulting.com
Copley Hall, Cotters Street, Cork, Ireland t +353 21 462 4000 | f +353 21 462 4001 | e cork@punchconsulting.com
www.punchconsulting.com

Stage:	PLANNING
Scale @A1:	AS SHOWN
Drawn:	N. LYNCH
Date:	2015-06-22
Drawing No:	151-223-010
Rev:	PL1

Appendix 3
Gas Networks Ireland Emails Correspondence and Maps

From:	No Reply
To:	Conor McLoughlin
Subject:	DBYD_Ca_8343_06112024151010
Attachments:	Safety Advice for working in the vicinity of Gas pipes 2021.pdf;8343_06112024151010.pdf;
Sent:	06/11/2024 15:11:51

You don't often get email from noreply@notify.gasnetworks.ie. Learn why this is important

Thank you for your enquiry on the Gas Networks Ireland ***Dial Before You Dig Online*** service, please find the attached network map for your area of interest.

Gas Networks Ireland has ***Distribution Gas Network*** within your area of interest.

Before you start work, you must have a current gas network map (or maps) for the work location. A current gas network map (or maps) must always be kept on site while work is under way.

Reading your Map

- High pressure transmission gas pipe is shown **Red.**
- Medium pressure distribution gas pipe is shown **Blue.**
- Low Pressure distribution gas pipe is shown **Green.**
- Strategic distribution gas pipe is highlighted with a buffer.

The gas network map is indicative only. You must conform to the safety and legal notices printed on the map. For further information on reading this map refer to the ***Safety Information.***

Breaking Ground

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    - Health and Safety Authority, ***Code of Practice for Avoiding Danger from Underground Services.***

Aurora Telecom

- Part of the Aurora Telecom Network may be present on your network map. For further information, Aurora can be contacted on **01 892 6166** (Office Hours) or auroralink@gasnetworks.ie.

Service Pipes

- Service pipes feeding individual properties are not generally shown but their presence should always be anticipated. For further information on domestic gas services refer to the ***Safety Information.***

Safety Information

- Before starting work any work in the vicinity of the gas network, please refer to the Gas Networks Ireland safety booklet, ***Safety advice for working in the vicinity of natural gas pipelines***, available at https://www.gasnetworks.ie/home/safety/dial-before-you-dig/

  This booklet contains important safety information, including advice on how to read the gas network maps you have requested.

Map enquiry details

- Full Name: Conor McLoughlin
- Phone Number: 0851724252
- Email: conor.mcloughlin@mwp.ie
- Custom Reference: test
- Reference ID: 8343_06112024151010

  If you did not request this map. please contact Customer Service on 1800 42 77 47.

Thank you for your enquiry to Gas Networks Ireland.

T 1800 20 50 50 (Emergency)
T 1800 42 77 47 (Dial Before You Dig enquiries)

E **dig@gasnetworks.ie**

Gas Networks Ireland Networks Services Centre, St. Margaret's Road, Finglas, D11 Y895 gasnetworks.ie | Find us on Twitter

Useful Publications

- Health and Safety Authority, ***Code of Practice for Avoiding Danger from Underground Services***
- Health and Safety Authority, ***Guide to Safety in Excavations***

Both are available free of charge from: Health and Safety Authority on **0818 289 389 www.hsa.ie**

From:	No Reply
To:	Conor McLoughlin
Subject:	DBYD_Ca_8343_06112024151238
Attachments:	Safety Advice for working in the vicinity of Gas pipes 2021.pdf;8343_06112024151238.pdf;
Sent:	06/11/2024 15:14:08

You don't often get email from noreply@notify.gasnetworks.ie. Learn why this is important

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  This booklet contains important safety information, including advice on how to read the gas network maps you have requested.

Map enquiry details

- Full Name: Conor McLoughlin
- Phone Number: 0851724252
- Email: conor.mcloughlin@mwp.ie
- Custom Reference: test
- Reference ID: 8343_06112024151238

  If you did not request this map. please contact Customer Service on 1800 42 77 47.

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From:	No Reply
To:	Conor McLoughlin
Subject:	DBYD_Ca_8343_06112024151257
Attachments:	8343_06112024151257.pdf;Safety Advice for working in the vicinity of Gas pipes 2021.pdf;
Sent:	06/11/2024 15:14:35

You don't often get email from noreply@notify.gasnetworks.ie. Learn why this is important

Thank you for your enquiry on the Gas Networks Ireland ***Dial Before You Dig Online*** service, please find the attached network map for your area of interest.

Gas Networks Ireland has ***Distribution Gas Network*** within your area of interest.

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- Low Pressure distribution gas pipe is shown **Green.**
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Aurora Telecom

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Map enquiry details

- Full Name: Conor McLoughlin
- Phone Number: 0851724252
- Email: conor.mcloughlin@mwp.ie
- Custom Reference: test
- Reference ID: 8343_06112024151257

  If you did not request this map. please contact Customer Service on 1800 42 77 47.

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Both are available free of charge from: Health and Safety Authority on **0818 289 389 www.hsa.ie**

From:	No Reply
To:	Conor McLoughlin
Subject:	DBYD_Ca_8343_06112024151459
Attachments:	Safety Advice for working in the vicinity of Gas pipes 2021.pdf;8343_06112024151459.pdf;
Sent:	06/11/2024 15:16:32

You don't often get email from noreply@notify.gasnetworks.ie. Learn why this is important

Thank you for your enquiry on the Gas Networks Ireland ***Dial Before You Dig Online*** service, please find the attached network map for your area of interest.

Gas Networks Ireland has ***Distribution Gas Network*** within your area of interest.

Before you start work, you must have a current gas network map (or maps) for the work location. A current gas network map (or maps) must always be kept on site while work is under way.

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- Low Pressure distribution gas pipe is shown **Green.**
- Strategic distribution gas pipe is highlighted with a buffer.

The gas network map is indicative only. You must conform to the safety and legal notices printed on the map. For further information on reading this map refer to the ***Safety Information.***

Breaking Ground

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Aurora Telecom

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Map enquiry details

- Full Name: Conor McLoughlin
- Phone Number: 0851724252
- Email: conor.mcloughlin@mwp.ie
- Custom Reference: test
- Reference ID: 8343_06112024151459

  If you did not request this map. please contact Customer Service on 1800 42 77 47.

Thank you for your enquiry to Gas Networks Ireland.

T 1800 20 50 50 (Emergency)
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Both are available free of charge from: Health and Safety Authority on **0818 289 389 www.hsa.ie**

From:	No Reply
To:	Conor McLoughlin
Subject:	DBYD_Ca_8343_06112024151522
Attachments:	Safety Advice for working in the vicinity of Gas pipes 2021.pdf;8343_06112024151522.pdf;
Sent:	06/11/2024 15:16:53

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Thank you for your enquiry on the Gas Networks Ireland ***Dial Before You Dig Online*** service, please find the attached network map for your area of interest.

Gas Networks Ireland has ***Distribution Gas Network*** within your area of interest.

Before you start work, you must have a current gas network map (or maps) for the work location. A current gas network map (or maps) must always be kept on site while work is under way.

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Aurora Telecom

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  This booklet contains important safety information, including advice on how to read the gas network maps you have requested.

Map enquiry details

- Full Name: Conor McLoughlin
- Phone Number: 0851724252
- Email: conor.mcloughlin@mwp.ie
- Custom Reference: test
- Reference ID: 8343_06112024151522

  If you did not request this map. please contact Customer Service on 1800 42 77 47.

Thank you for your enquiry to Gas Networks Ireland.

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T 1800 42 77 47 (Dial Before You Dig enquiries)

E **dig@gasnetworks.ie**

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- Health and Safety Authority, ***Guide to Safety in Excavations***

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From:	No Reply
To:	Conor McLoughlin
Subject:	DBYD_Ca_8343_06112024151539
Attachments:	Safety Advice for working in the vicinity of Gas pipes 2021.pdf;8343_06112024151539.pdf;
Sent:	06/11/2024 15:17:28

You don't often get email from noreply@notify.gasnetworks.ie. Learn why this is important

Thank you for your enquiry on the Gas Networks Ireland ***Dial Before You Dig Online*** service, please find the attached network map for your area of interest.

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Map enquiry details

- Full Name: Conor McLoughlin
- Phone Number: 0851724252
- Email: conor.mcloughlin@mwp.ie
- Custom Reference: test
- Reference ID: 8343_06112024151539

  If you did not request this map. please contact Customer Service on 1800 42 77 47.

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Both are available free of charge from: Health and Safety Authority on **0818 289 389 www.hsa.ie**

From:	No Reply
To:	Conor McLoughlin
Subject:	DBYD_Ca_8343_06112024151551
Attachments:	8343_06112024151551.pdf;Safety Advice for working in the vicinity of Gas pipes 2021.pdf;
Sent:	06/11/2024 15:17:37

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Map enquiry details

- Full Name: Conor McLoughlin
- Phone Number: 0851724252
- Email: conor.mcloughlin@mwp.ie
- Custom Reference: test
- Reference ID: 8343_06112024151551

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Both are available free of charge from: Health and Safety Authority on **0818 289 389 www.hsa.ie**

From:	No Reply
To:	Conor McLoughlin
Subject:	DBYD_Ca_8343_06112024151856
Attachments:	8343_06112024151856.pdf;GNI Code of Practice for Working in Vicinity of Tx Network 2021.pdf;Safety Advice for working in the vicinity of Gas pipes 2021.pdf;
Sent:	06/11/2024 15:20:34

You don't often get email from noreply@notify.gasnetworks.ie. Learn why this is important

Thank you for your enquiry on the Gas Networks Ireland ***Dial Before You Dig Online*** service, please find the attached network map for your area of interest.

Gas Networks Ireland has ***Transmission Gas Network*** within your area of interest.

Before you start work, you must have a current gas network map (or maps) for the work location. A current gas network map (or maps) must always be kept on site while work is under way.

Reading your Map

- High pressure transmission gas pipe is shown **Red.**
- Medium pressure distribution gas pipe is shown **Blue.**
- Low Pressure distribution gas pipe is shown **Green.**
- Strategic distribution gas pipe is highlighted with a buffer.

The gas network map is indicative only. You must conform to the safety and legal notices printed on the map. For further information on reading this map refer to the ***Safety Information*** below.

Breaking Ground

- Supervision by Gas Networks Ireland is required when working in the vicinity of Transmission gas pipes.
- If your intended excavation is within **10 m** of the Transmission Network, work must not proceed until Gas Networks Ireland has been consulted on **1800 42 77 47**. If in doubt, contact Gas Networks Ireland.
- Gas Networks Ireland will advise you on the safety measures required and will arrange for the exact location of the pipe to be marked out on site.
- No excavation may take place within the wayleave of a transmission pipeline without a valid permit issued by Gas Networks Ireland.
- All work in the vicinity of a gas transmission pipeline must be carried out in compliance with:
    - Gas Networks Ireland, ***Code of Practice for Working in the Vicinity of Transmission Network.***
    - Health and Safety Authority, ***Code of Practice for Avoiding Danger from Underground Services.***

Map enquiry details

- Full Name: Conor McLoughlin
- Phone Number: 0851724252
- Email: conor.mcloughlin@mwp.ie
- Custom Reference: test
- Reference ID: 8343_06112024151856

Aurora Telecom

- Part of the Aurora Telecom Network may be present on your network map. For further information, Aurora can be contacted on **01 892 6166** (Office Hours) or auroralink@gasnetworks.ie.

Safety Information

- Before starting work any work in the vicinity of the gas network, please refer to the Gas Networks Ireland safety booklet, ***Safety advice for working in the vicinity of natural gas pipelines***, available at https://www.gasnetworks.ie/home/safety/dial-before-you-dig/

  This booklet contains important safety information, including advice on how to read the gas network maps you have requested.

If you did not request this map, please contact Customer Service on **1800 42 77 47.**

T 1800 20 50 50 (Emergency)
T 1800 42 77 47 (Dial Before You Dig enquiries)

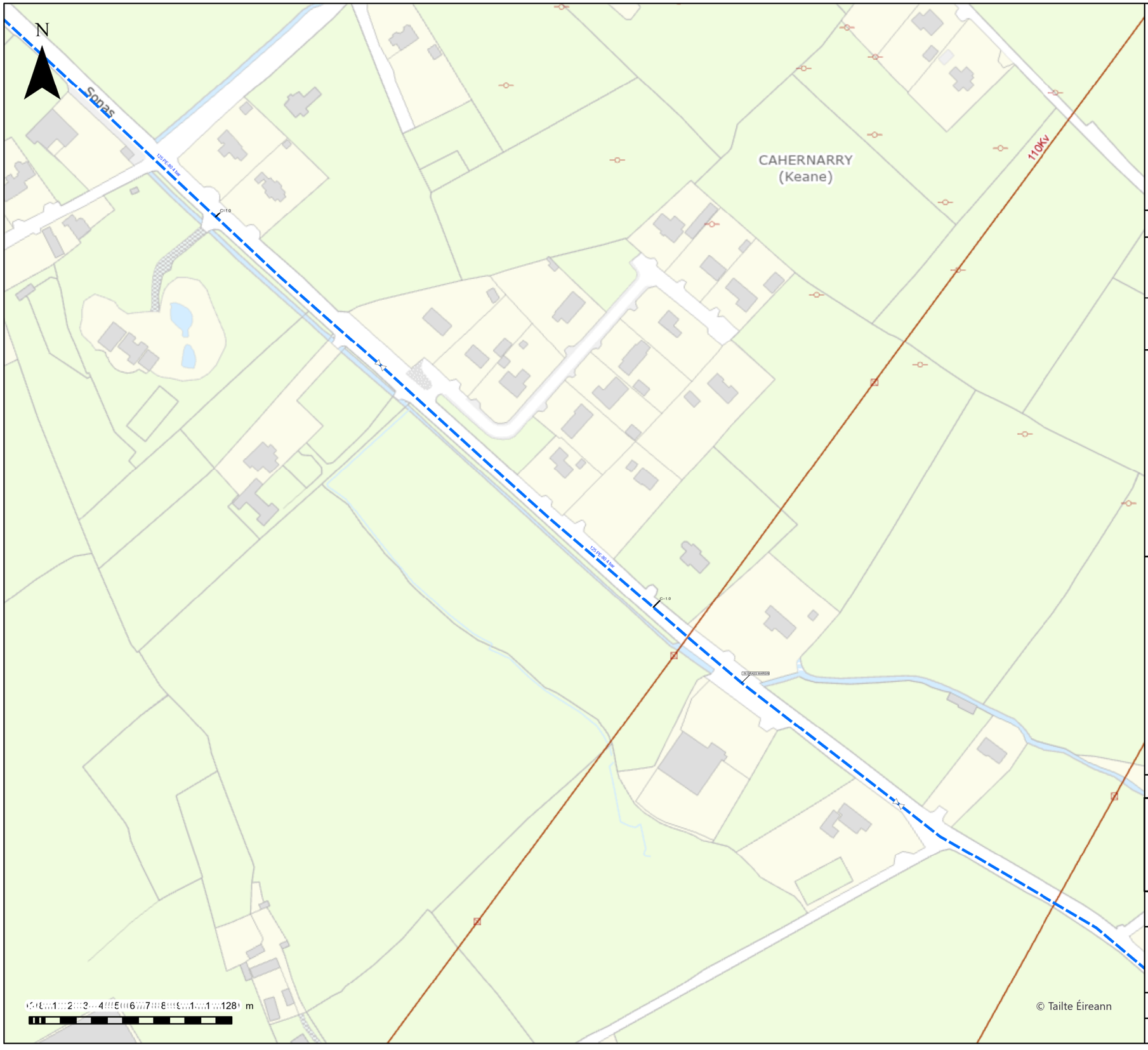
E **dig@gasnetworks.ie**

Gas Networks Ireland Networks Services Centre, St. Margaret's Road, Finglas, D11 Y895 gasnetworks.ie | Find us on Twitter

Useful Publications

- Health and Safety Authority, ***Code of Practice for Avoiding Danger from Underground Services***
- Health and Safety Authority, ***Guide to Safety in Excavations***

Both are available free of charge from: Health and Safety Authority on **0818 289 389 www.hsa.ie**



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Aurora_Network_Queries@gasnetworks.ie
Aurora Telecom Emergency Only 1800 427399 / 01 2030120

- Transmission Pipe (High Pressure)
- Transmission Pipe (Construction Issue)
- Distribution Pipe (Medium Pressure)
- Distribution Pipe (Low Pressure)
- Service Pipe (Medium Pressure)
- Service Pipe (Low Pressure)
- Strategic Pipe (Medium Pressure)
- Strategic Pipe (Low Pressure)
- Inserted
- Abandoned Pipe

C=?	Cover (depth in metres)		Pressure Monitor
CP	CP Test Point		Protection (Slabbing)
	End Cap		Protection (Sleeve)
	Hot Tap		Reducer
	Installation		Service Terminator
	Valve		Tee
	Mains Verification**		Transition

** Please contact GNI on 1800-427747 for specific information

DIAL BEFORE YOU DIG 1800 42 77 47
In Emergency call 1800 20 50 50 Gas Networks Ireland

Gas Networks Ireland

GAS NETWORK INFORMATION

Description: test

Location: 561562,652387

Plot Date: 06/11/2024 15:10	Scale: 2500 @ A3
Plotted By: 8343	Ref ID: *8343_06112024151010*



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- Transmission Pipe (Construction Issue)
- Distribution Pipe (Medium Pressure)
- Distribution Pipe (Low Pressure)
- Service Pipe (Medium Pressure)
- Service Pipe (Low Pressure)
- Strategic Pipe (Medium Pressure)
- Strategic Pipe (Low Pressure)
- Inserted
- Abandoned Pipe

C=?	Cover (depth in metres)		Pressure Monitor
CP	CP Test Point		Protection (Slabbing)
	End Cap		Protection (Sleeve)
	Hot Tap		Reducer
	Installation		Service Terminator
	Valve		Tee
	Mains Verification**		Transition

** Please contact GNI on 1800-427747 for specific information

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Gas Networks Ireland

GAS NETWORK INFORMATION

Description: test

Location: 562016,651885

Plot Date: 06/11/2024 15:12	Scale: 2500 @ A3
Plotted By: 8343	Ref ID: *8343_06112024151238*



Important Safety Notice: Damage to gas pipelines can result in serious injury or death. Gas network information is provided as a general guide. The exact location and depth of medium or low pressure distribution gas pipes must be verified on site by carrying out necessary investigations, including, for example, hand digging trial holes along the route of the pipe. Service pipes are not generally shown but their presence should always be anticipated.

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- Transmission Pipe (Construction Issue)
- Distribution Pipe (Medium Pressure)
- Distribution Pipe (Low Pressure)
- Service Pipe (Medium Pressure)
- Service Pipe (Low Pressure)
- Strategic Pipe (Medium Pressure)
- Strategic Pipe (Low Pressure)
- Inserted
- Abandoned Pipe

C=?	Cover (depth in metres)		Pressure Monitor
CP	CP Test Point		Protection (Slabbing)
	End Cap		Protection (Sleeve)
	Hot Tap		Reducer
	Installation		Service Terminator
	Valve		Tee
	Mains Verification**		Transition

** Please contact GNI on 1800-427747 for specific information

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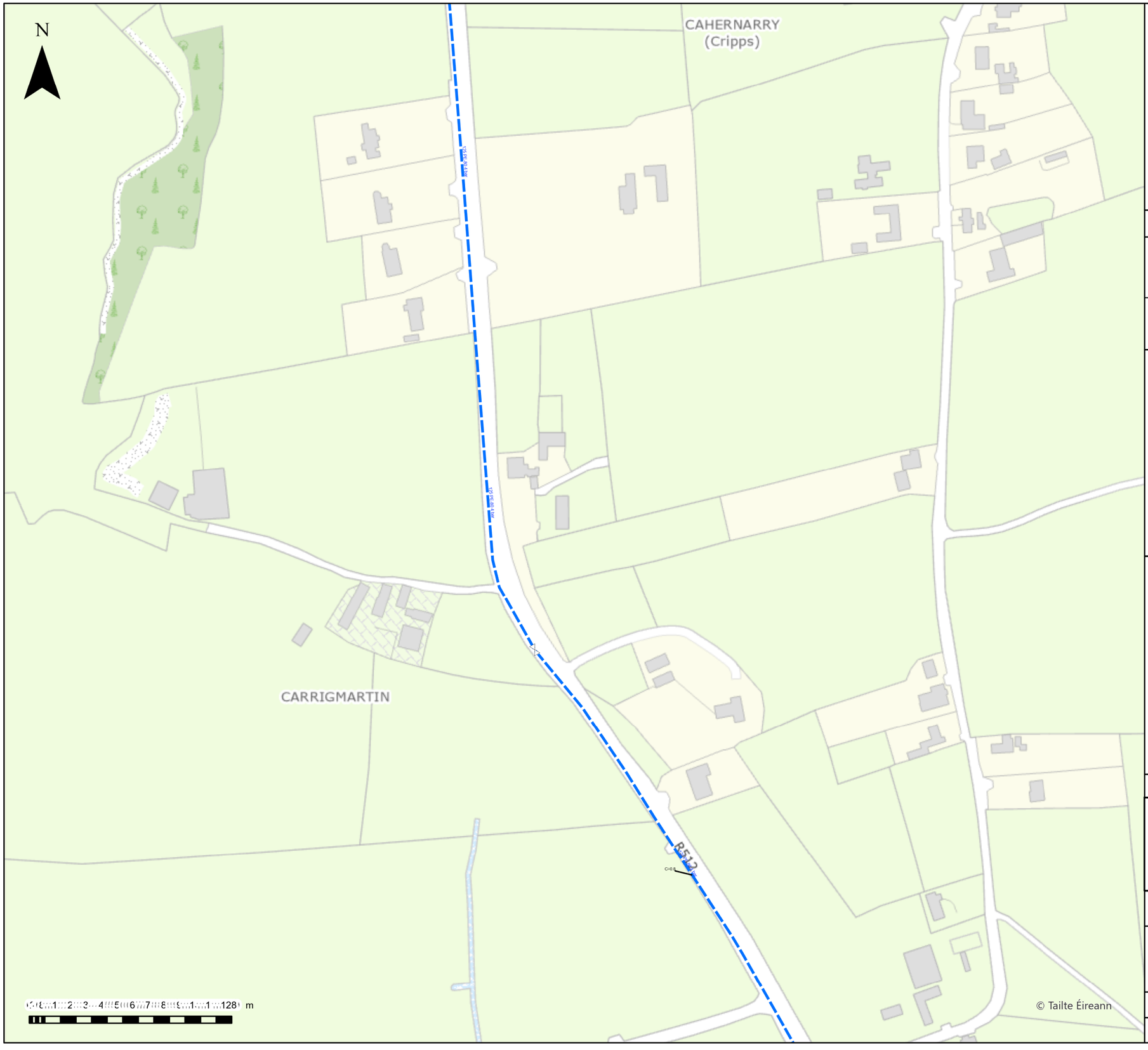
Gas Networks Ireland

GAS NETWORK INFORMATION

Description: test

Location: 562120,651416

Plot Date: 06/11/2024 15:12	Scale: 2500 @ A3
Plotted By: 8343	Ref ID: *8343_06112024151257*



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Aurora Telecom Emergency Only 1800 427399 / 01 2030120

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- Transmission Pipe (Construction Issue)
- Distribution Pipe (Medium Pressure)
- Distribution Pipe (Low Pressure)
- Service Pipe (Medium Pressure)
- Service Pipe (Low Pressure)
- Strategic Pipe (Medium Pressure)
- Strategic Pipe (Low Pressure)
- Inserted
- Abandoned Pipe

C=?	Cover (depth in metres)		Pressure Monitor
CP	CP Test Point		Protection (Slabbing)
	End Cap		Protection (Sleeve)
	Hot Tap		Reducer
	Installation		Service Terminator
	Valve		Tee
	Mains Verification**		Transition

** Please contact GNI on 1800-427747 for specific information

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Gas Networks Ireland

GAS NETWORK INFORMATION

Description: test

Location: 562222,650961

Plot Date: 06/11/2024 15:14	Scale: 2500 @ A3
Plotted By: 8343	Ref ID: *8343_06112024151459*



Important Safety Notice: Damage to gas pipelines can result in serious injury or death. Gas network information is provided as a general guide. The exact location and depth of medium or low pressure distribution gas pipes must be verified on site by carrying out necessary investigations, including, for example, hand digging trial holes along the route of the pipe. Service pipes are not generally shown but their presence should always be anticipated.

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- Transmission Pipe (Construction Issue)
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- Distribution Pipe (Low Pressure)
- Service Pipe (Medium Pressure)
- Service Pipe (Low Pressure)
- Strategic Pipe (Medium Pressure)
- Strategic Pipe (Low Pressure)
- Inserted
- Abandoned Pipe

C=?	Cover (depth in metres)		Pressure Monitor
CP	CP Test Point		Protection (Slabbing)
	End Cap		Protection (Sleeve)
	Hot Tap		Reducer
	Installation		Service Terminator
	Valve		Tee
	Mains Verification**		Transition

** Please contact GNI on 1800-427747 for specific information

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In Emergency call 1800 20 50 50 Gas Networks Ireland

Gas Networks Ireland

GAS NETWORK INFORMATION

Description: test

Location: 562530,650332

Plot Date: 06/11/2024 15:15	Scale: 2500 @ A3
Plotted By: 8343	Ref ID: *8343_06112024151522*



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- Distribution Pipe (Low Pressure)
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- Service Pipe (Low Pressure)
- Strategic Pipe (Medium Pressure)
- Strategic Pipe (Low Pressure)
- Inserted
- Abandoned Pipe

C=?	Cover (depth in metres)		Pressure Monitor
CP	CP Test Point		Protection (Slabbing)
	End Cap		Protection (Sleeve)
	Hot Tap		Reducer
	Installation		Service Terminator
	Valve		Tee
	Mains Verification**		Transition

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GAS NETWORK INFORMATION

Description: test

Location: 562742,649881

Plot Date: 06/11/2024 15:15	Scale: 2500 @ A3
Plotted By: 8343	Ref ID: *8343_06112024151539*



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- Transmission Pipe (Construction Issue)
- Distribution Pipe (Medium Pressure)
- Distribution Pipe (Low Pressure)
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- Service Pipe (Low Pressure)
- Strategic Pipe (Medium Pressure)
- Strategic Pipe (Low Pressure)
- Inserted
- Abandoned Pipe

C=?	Cover (depth in metres)		Pressure Monitor
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	End Cap		Protection (Sleeve)
	Hot Tap		Reducer
	Installation		Service Terminator
	Valve		Tee
	Mains Verification**		Transition

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Gas Networks Ireland

GAS NETWORK INFORMATION

Description: test

Location: 562849,649378

Plot Date: 06/11/2024 15:15	Scale: 2500 @ A3
Plotted By: 8343	Ref ID: *8343_06112024151551*



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	Hot Tap		Reducer
	Installation		Service Terminator
	Valve		Tee
	Mains Verification**		Transition

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Gas Networks Ireland

GAS NETWORK INFORMATION

Description: test

Location: 560164,637193

Plot Date: 06/11/2024 15:18	Scale: 2500 @ A3
Plotted By: 8343	Ref ID: *8343_06112024151856*

Appendix 3
Irish Water Maps

Irish Water Network



06/11/2024

Storm Manholes
- Standard
- Backdrop
- Cascade
- Catchpit
- Bifurcation
- Hatchbox
- Lamphole
- Hydrobrake
- Other; Unknown

Surface Water Mains
- Surface Gravity Mains
- Surface Gravity Mains Private
- Surface Water Pressurised Mains
- Surface Water Pressurised Mains Private
- Storm Culverts
- Storm Open Drains

Sewer Manholes
- Standard
- Backdrop
- Cascade
- Catchpit
- Bifurcation
- Hatchbox
- Lamphole
- Hydrobrake
- Other; Unknown

Sewer Discharge Points
- Outfall
- Overflow
- Soakaway
- Other; Unknown
- Waste Water Treatment plant
- Waste Water Pump station
- Sewer Chambers

Sewer Mains
- Gravity - Combined
- Gravity - Foul
- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow
- Overflow

Sewer Mains (Private)
- Gravity - Combined
- Gravity - Foul
- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow
- Overflow
- Sewer Detention Areas
- Waste Water Asset Site Boundary
- Wastewater Discharge Authorisation Boundary
- Water Treatment Plant
- Abstraction Point

Reservoir
- Reservoir (Potable Water)
- Reservoir (Raw Water)
- Water Pump Stations

Water Network Structures
- Storage Cell
- Storage Tower
- Dosing Point
- Meter Station
- Water Pump
- Other; Unknown

Private Water Network Structures
- Storage Cell
- Storage Tower
- Dosing Point
- Meter Station
- Water Pump
- Other; Unknown

Water Distribution Mains
- Irish Water
- Private

Trunk Water Mains
- Irish Water
- Private
- Water Abandoned Lines
- Water Abandoned Points

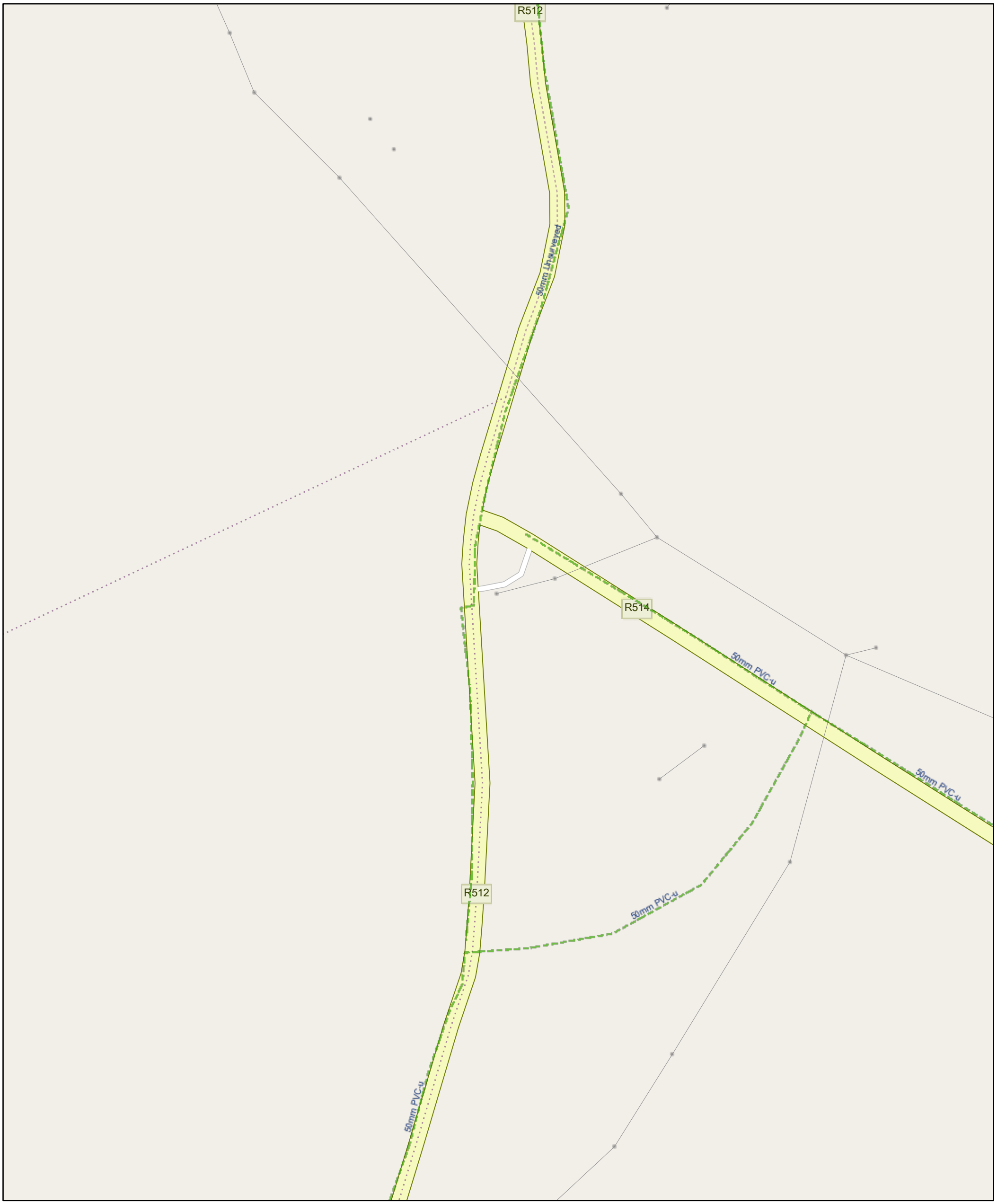
1:5,000

0 0.04 0.07 0.14 mi

0 0.05 0.1 0.2 km

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Irish Water Network



06/11/2024

Storm Manholes
- Standard
- Backdrop
- Cascade
- Catchpit
- Bifurcation
- Hatchbox
- Lamphole
- Hydrobrake
- Other; Unknown

Surface Water Mains
- Surface Gravity Mains
- Surface Gravity Mains Private
- Surface Water Pressurised Mains
- Surface Water Pressurised Mains Private
- Storm Culverts
- Storm Open Drains

Sewer Manholes
- Standard
- Backdrop
- Cascade
- Catchpit
- Bifurcation
- Hatchbox
- Lamphole
- Hydrobrake
- Other; Unknown

Sewer Discharge Points
- Outfall
- Overflow
- Soakaway
- Other; Unknown
- Waste Water Treatment plant
- Waste Water Pump station
- Sewer Chambers

Sewer Mains
- Gravity - Combined
- Gravity - Foul
- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow
- Overflow

Sewer Mains (Private)
- Gravity - Combined
- Gravity - Foul
- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow
- Overflow
- Sewer Detention Areas
- Waste Water Asset Site Boundary
- Wastewater Discharge Authorisation Boundary
- Water Treatment Plant
- Abstraction Point

Reservoir
- Reservoir (Potable Water)
- Reservoir (Raw Water)
- Water Pump Stations

Water Network Structures
- Storage Cell
- Storage Tower
- Dosing Point
- Meter Station
- Water Pump
- Other; Unknown

Private Water Network Structures
- Storage Cell
- Storage Tower
- Dosing Point
- Meter Station
- Water Pump
- Other; Unknown

Water Distribution Mains
- Irish Water
- Private

Trunk Water Mains
- Irish Water
- Private
- Water Abandoned Lines
- Water Abandoned Points

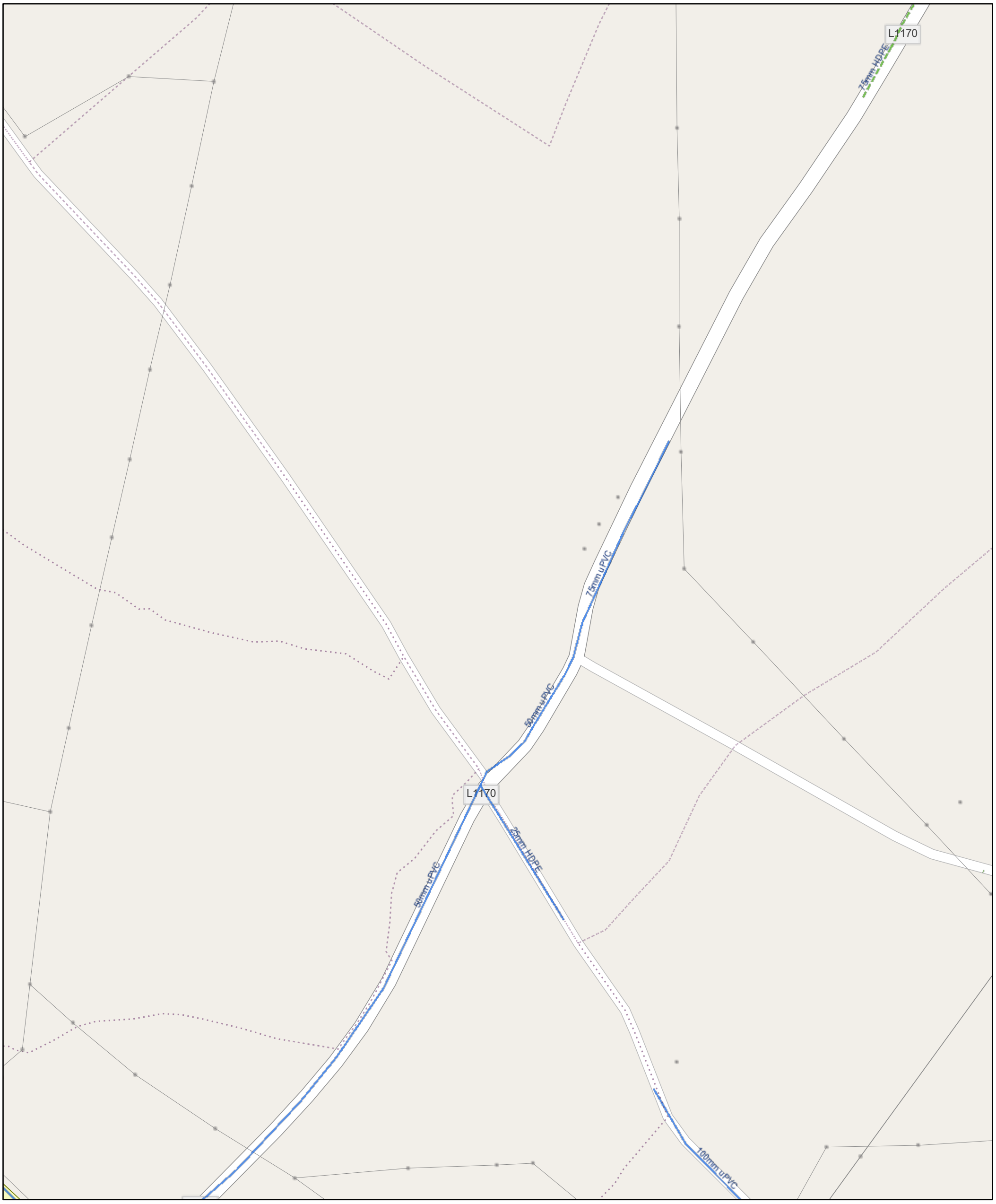
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Irish Water Network



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Storm Manholes
- Standard
- Backdrop
- Cascade
- Catchpit
- Bifurcation
- Hatchbox
- Lamphole
- Hydrobrake
- Other; Unknown

Surface Water Mains
- Surface Gravity Mains
- Surface Gravity Mains Private
- Surface Water Pressurised Mains
- Surface Water Pressurised Mains Private
- Storm Culverts
- Storm Open Drains

Sewer Manholes
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Waste Water Treatment plant
Waste Water Pump station
Sewer Chambers

Sewer Mains
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- Pumping - Unknown
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Sewer Mains (Private)
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- Gravity - Overflow
- Gravity - Unknown
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- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
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- Syphon - Foul
- Syphon - Overflow
- Overflow
- Sewer Detention Areas

Waste Water Asset Site Boundary
Wastewater Discharge Authorisation Boundary
Water Treatment Plant
Abstraction Point

Reservoir
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- Reservoir (Raw Water)

Water Pump Stations

Water Network Structures
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- Water Pump
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- Water Pump
- Other; Unknown

Water Distribution Mains
- Irish Water
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Trunk Water Mains
- Irish Water
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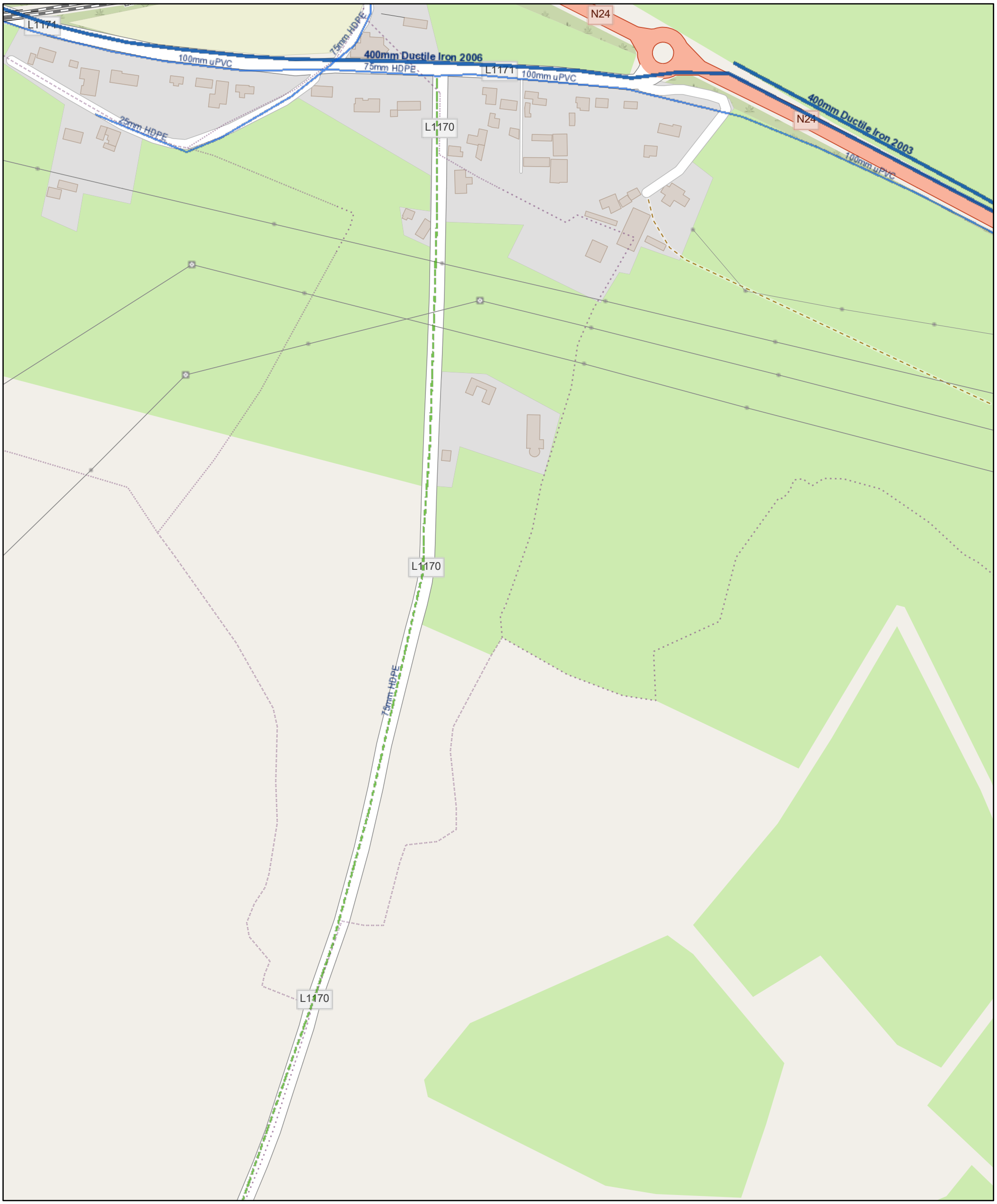
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Sewer Mains (Private)
- Gravity - Combined
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- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
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Private Water Network Structures
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- Water Pump
- Other; Unknown

Water Distribution Mains
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Trunk Water Mains
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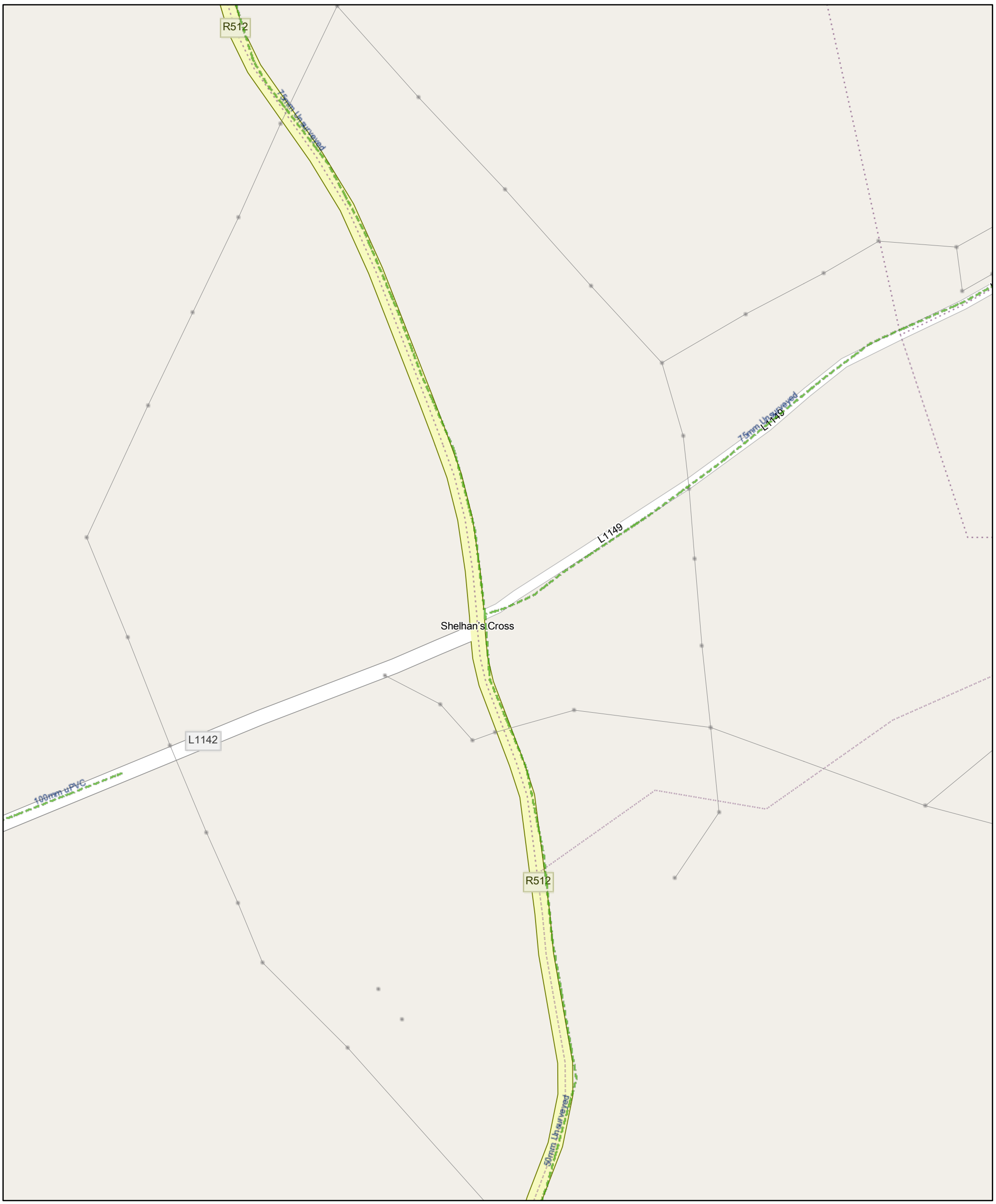
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- Pumping - Overflow
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- Syphon - Overflow
- Overflow

Sewer Mains (Private)
- Gravity - Combined
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- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow
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Water Network Structures
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- Meter Station
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Private Water Network Structures
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- Storage Tower
- Dosing Point
- Meter Station
- Water Pump
- Other; Unknown

Water Distribution Mains
- Irish Water
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Trunk Water Mains
- Irish Water
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- Water Abandoned Lines
- Water Abandoned Points

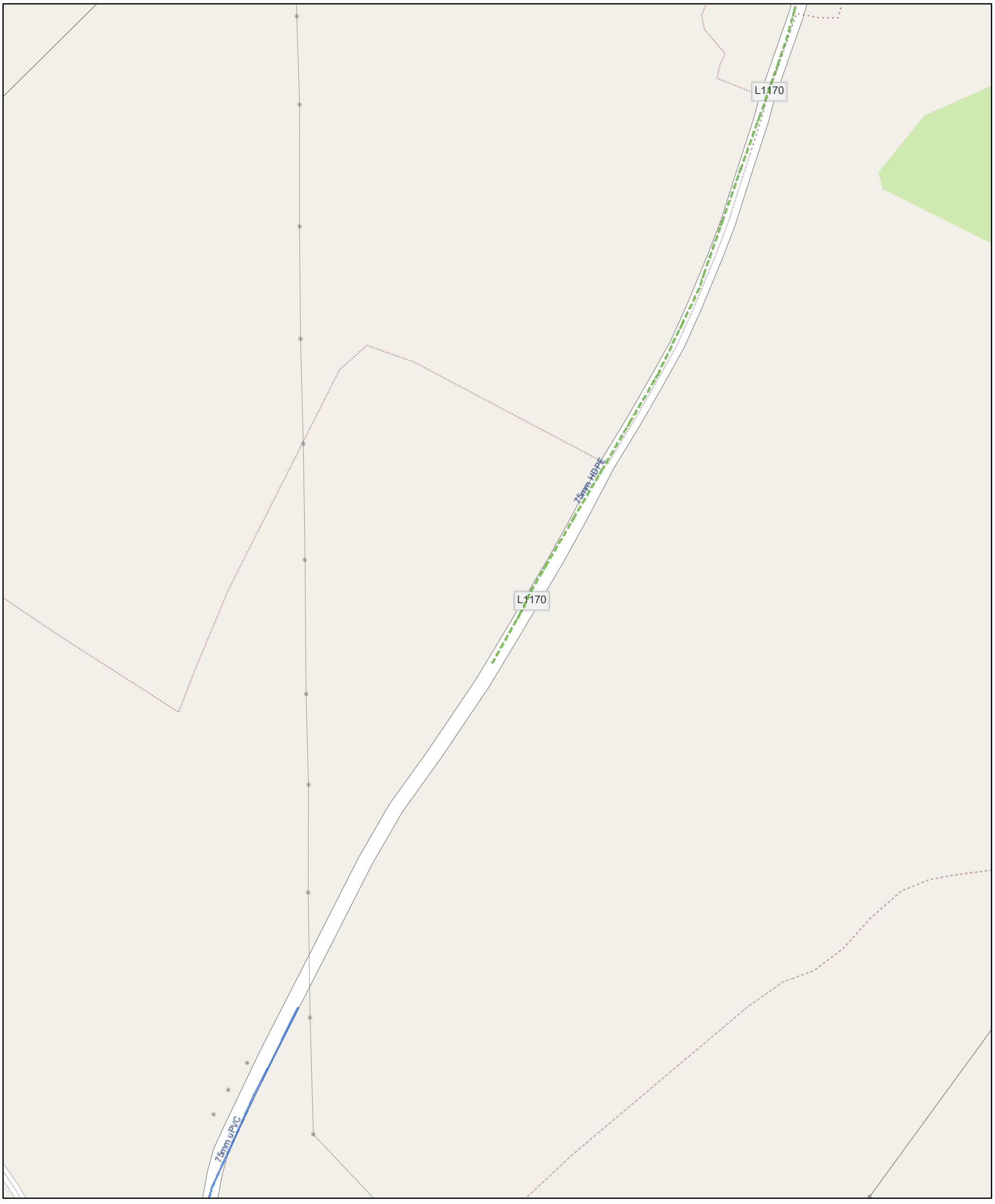
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Surface Water Mains
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Sewer Manholes
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- Catchpit
- Bifurcation
- Hatchbox
- Lamphole
- Hydrobrake
- Other; Unknown

Sewer Discharge Points
- Outfall
- Overflow
- Soakaway
- Other; Unknown

Waste Water Treatment plant
Waste Water Pump station
Sewer Chambers

Sewer Mains
- Gravity - Combined
- Gravity - Foul
- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow

Overflow

Sewer Mains (Private)
- Gravity - Combined
- Gravity - Foul
- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow
- Overflow
- Sewer Detention Areas

Waste Water Asset Site Boundary
Wastewater Discharge Authorisation Boundary
Water Treatment Plant
Abstraction Point

Reservoir
- Reservoir (Potable Water)
- Reservoir (Raw Water)
- Water Pump Stations

Water Network Structures
- Storage Cell
- Storage Tower
- Dosing Point
- Meter Station
- Water Pump
- Other; Unknown

Private Water Network Structures
- Storage Cell
- Storage Tower
- Dosing Point
- Meter Station
- Water Pump
- Other; Unknown

Water Distribution Mains
- Irish Water
- Private

Trunk Water Mains
- Irish Water
- Private
- Water Abandoned Lines
- Water Abandoned Points

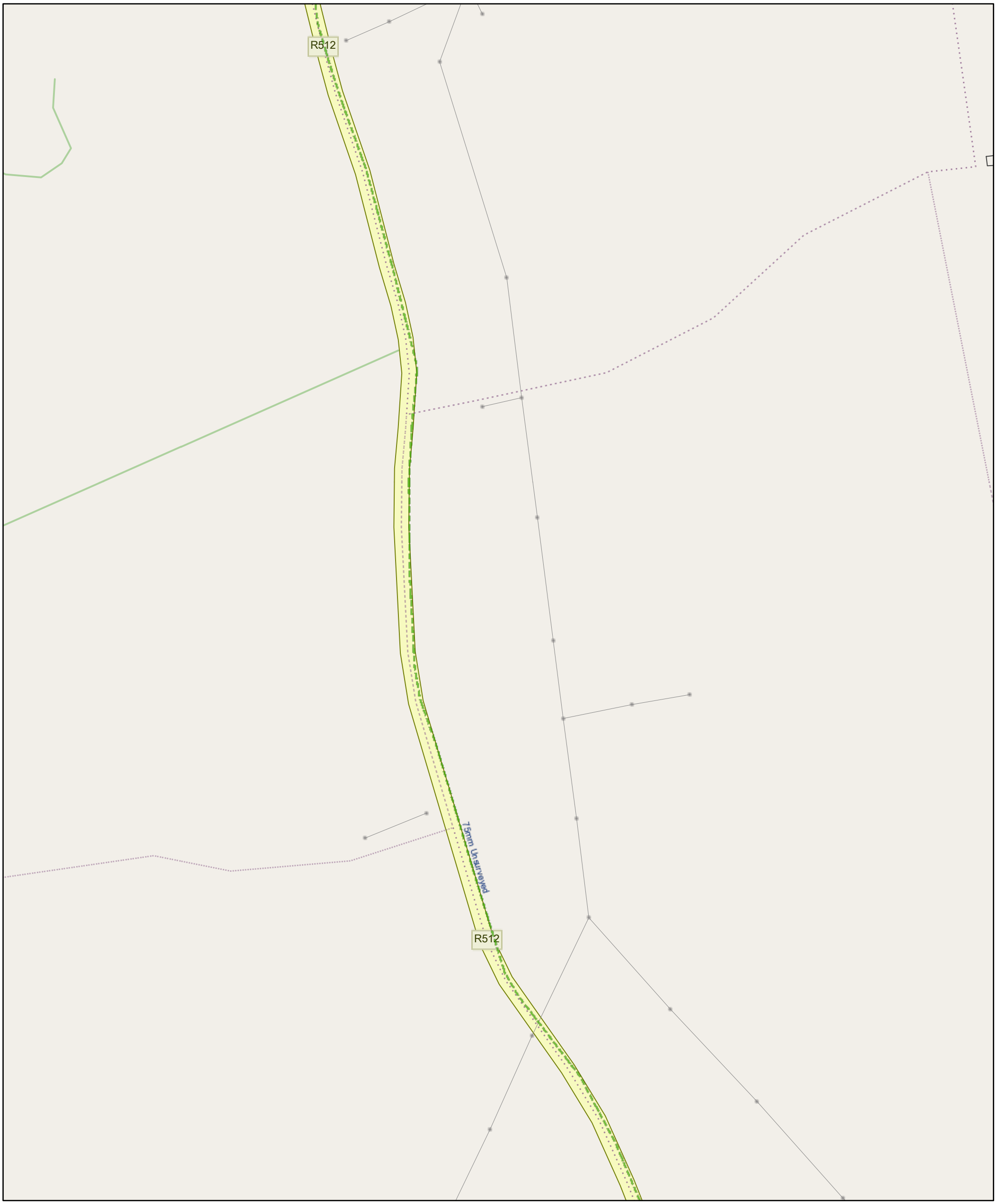
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Irish Water Network



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Storm Manholes
- Standard
- Backdrop
- Cascade
- Catchpit
- Bifurcation
- Hatchbox
- Lamphole
- Hydrobrake
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Surface Water Mains
- Surface Gravity Mains
- Surface Gravity Mains Private
- Surface Water Pressurised Mains
- Surface Water Pressurised Mains Private
- Storm Culverts
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Sewer Manholes
- Standard
- Backdrop
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Sewer Discharge Points
- Outfall
- Overflow
- Soakaway
- Other; Unknown
- Waste Water Treatment plant
- Waste Water Pump station
- Sewer Chambers

Sewer Mains
- Gravity - Combined
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- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow
- Overflow

Sewer Mains (Private)
- Gravity - Combined
- Gravity - Foul
- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow
- Overflow
- Sewer Detention Areas
- Waste Water Asset Site Boundary
- Wastewater Discharge Authorisation Boundary
- Water Treatment Plant
- Abstraction Point

Reservoir
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Water Network Structures
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Private Water Network Structures
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- Water Pump
- Other; Unknown

Water Distribution Mains
- Irish Water
- Private

Trunk Water Mains
- Irish Water
- Private
- Water Abandoned Lines
- Water Abandoned Points

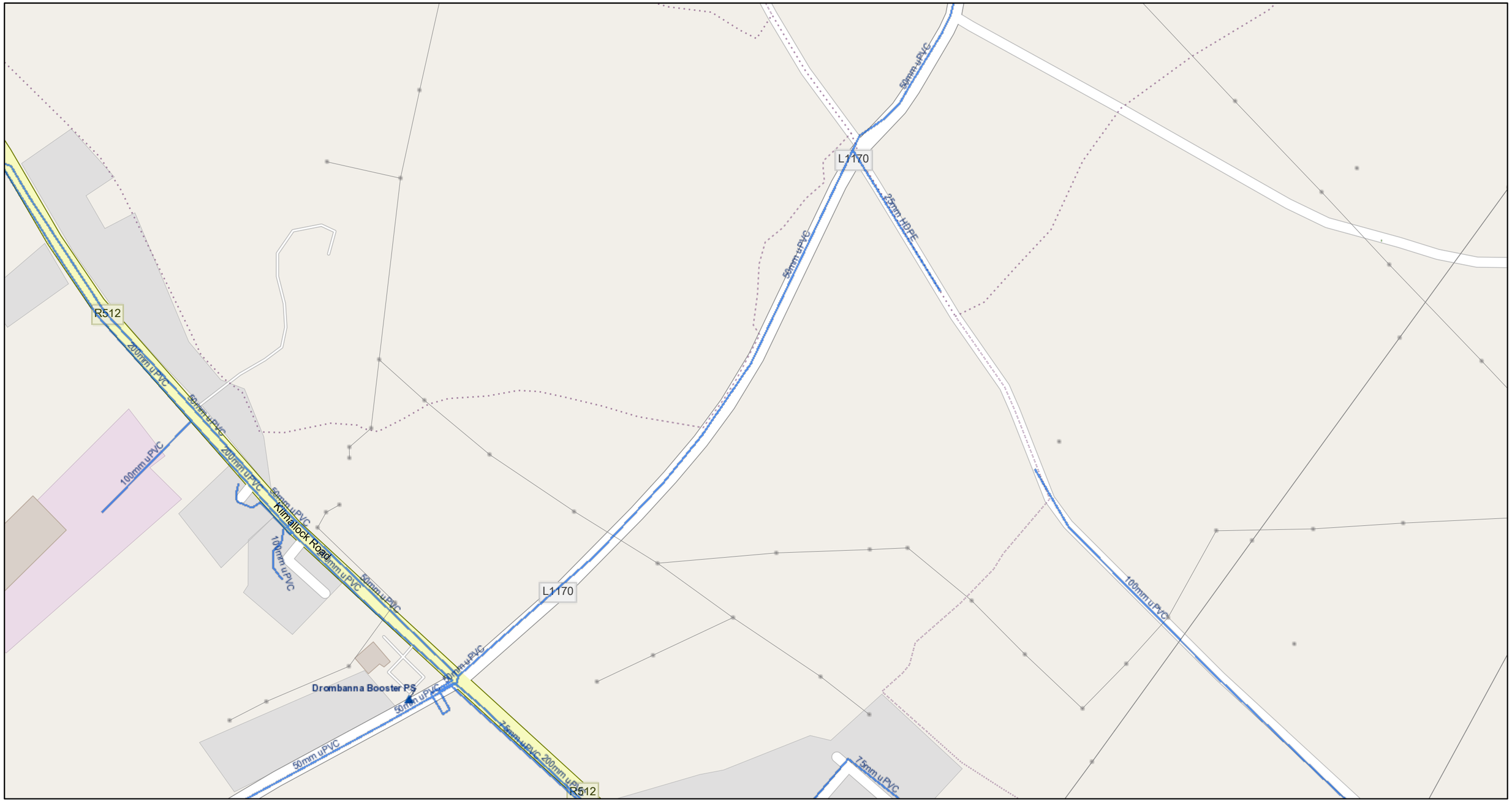
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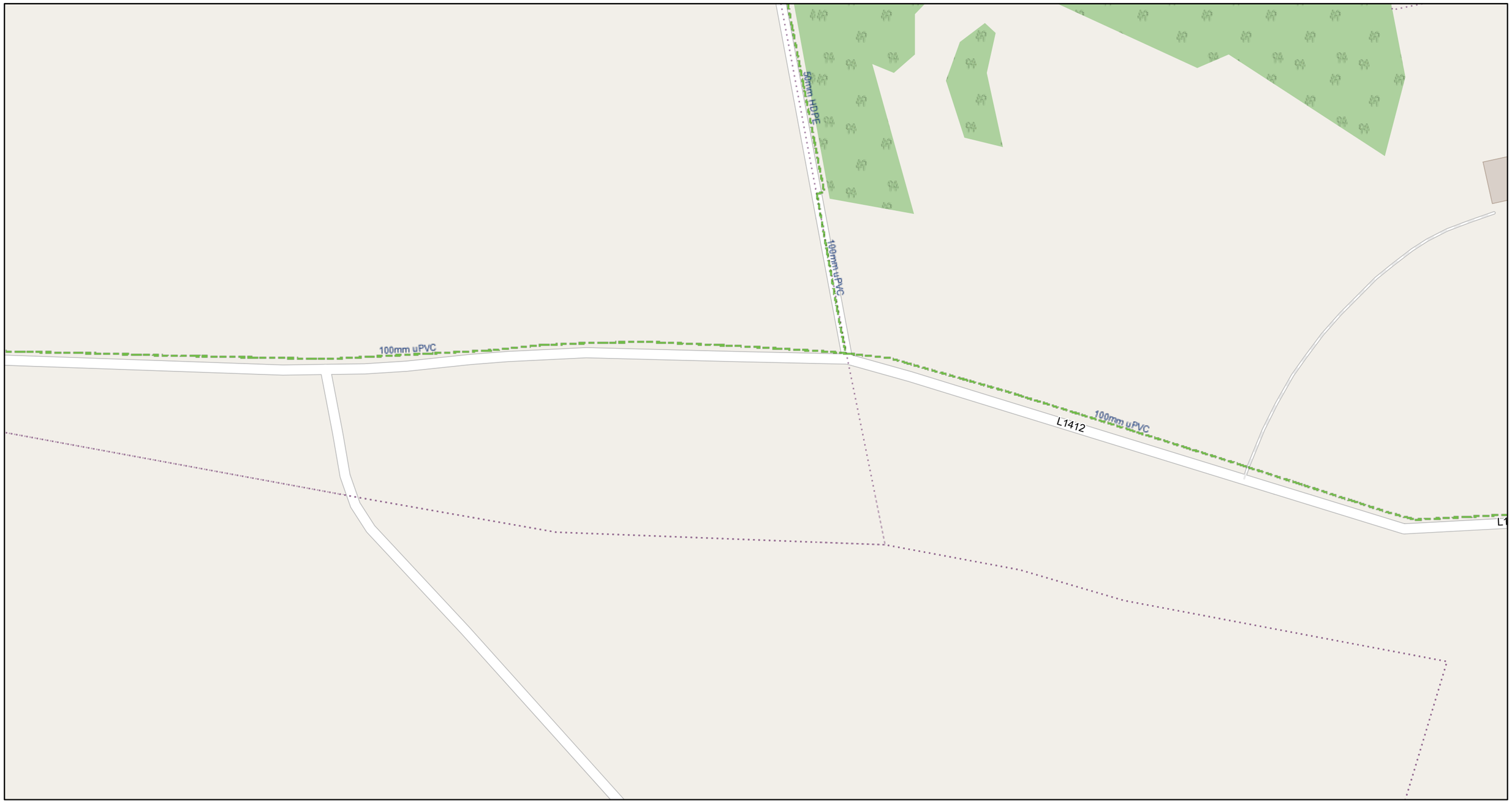
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Irish Water Network


L1170
R512
Kilmallock Road
Drombanna Booster PS
100mm uPVC
200mm uPVC
50mm uPVC
75mm uPVC
50mm uPVC
75mm uPVC
50mm uPVC
100mm uPVC
50mm uPVC
50mm uPVC
50mm uPVC
75mm uPVC
200mm uPVC
50mm uPVC
50mm uPVC
50

Irish Water Network



06/11/2024

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0 0.04 0.07 0.15 mi

0 0.05 0.1 0.2 km

Storm Manholes
- Standard
- Backdrop
- Cascade
- Catchpit
- Bifurcation
- Hatchbox
- Lamphole
- Hydrobrake
- Other; Unknown

Surface Water Mains
- Surface Gravity Mains
- Surface Gravity Mains Private
- Surface Water Pressurised Mains
- Surface Water Pressurised Mains Private
- Storm Culverts
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Sewer Manholes
- Standard
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Sewer Discharge Points
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- Waste Water Treatment plant
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- Sewer Chambers

Sewer Mains
- Gravity - Combined
- Gravity - Foul
- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
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- Pumping - Overflow
- Pumping - Unknown
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- Syphon - Foul
- Syphon - Overflow
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Sewer Mains (Private)
- Gravity - Combined
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- Sewer Detention Areas
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Reservoir
- Reservoir (Potable Water)
- Reservoir (Raw Water)
- Water Pump Stations

Water Network Structures
- Storage Cell
- Storage Tower
- Dosing Point
- Meter Station
- Water Pump
- Other; Unknown

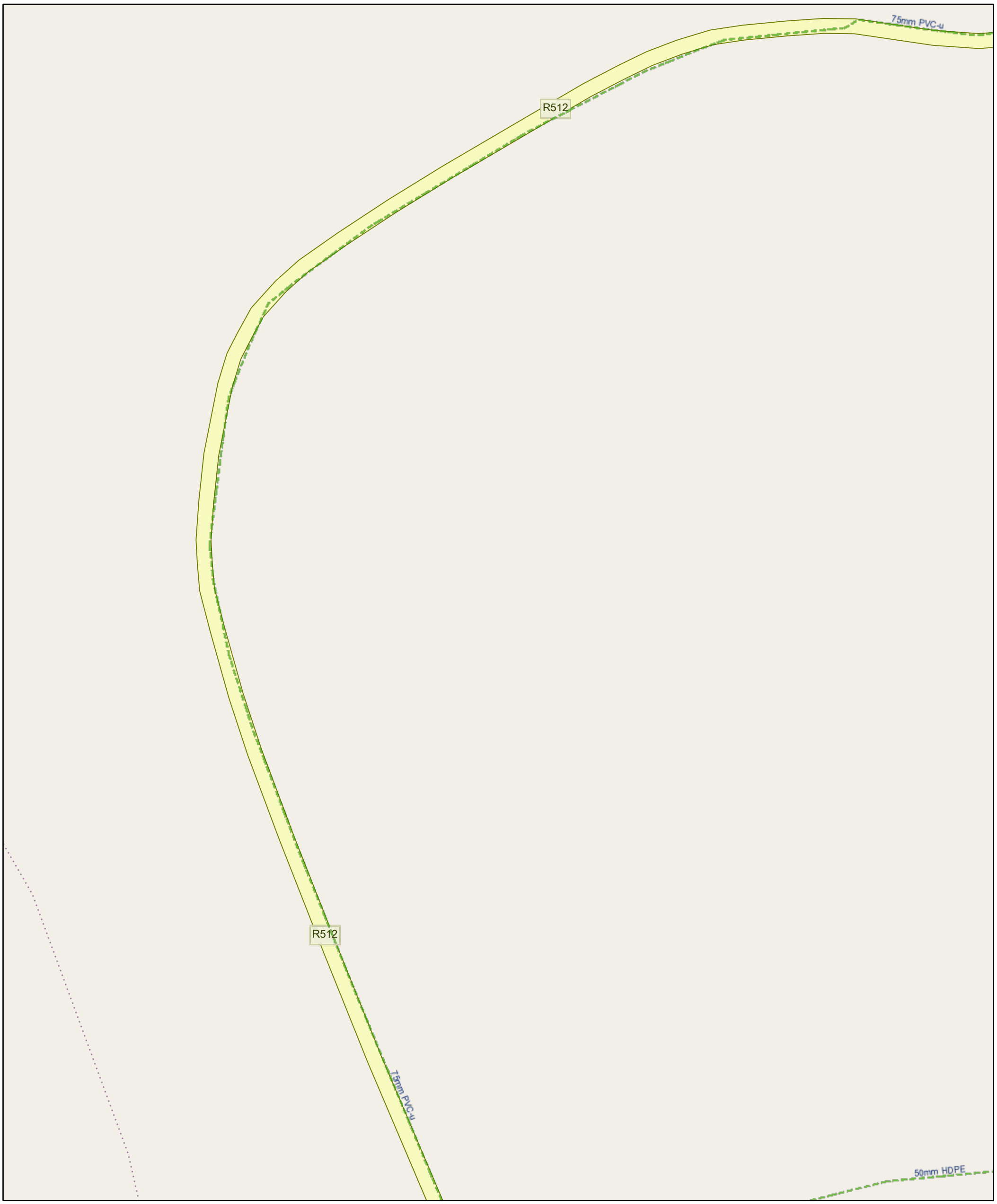
Private Water Network Structures
- Storage Cell
- Storage Tower
- Dosing Point
- Meter Station
- Water Pump
- Other; Unknown

Water Distribution Mains
- Irish Water
- Private

Trunk Water Mains
- Irish Water
- Private
- Water Abandoned Lines
- Water Abandoned Points

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Irish Water Network



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Storm Manholes
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Sewer Mains (Private)
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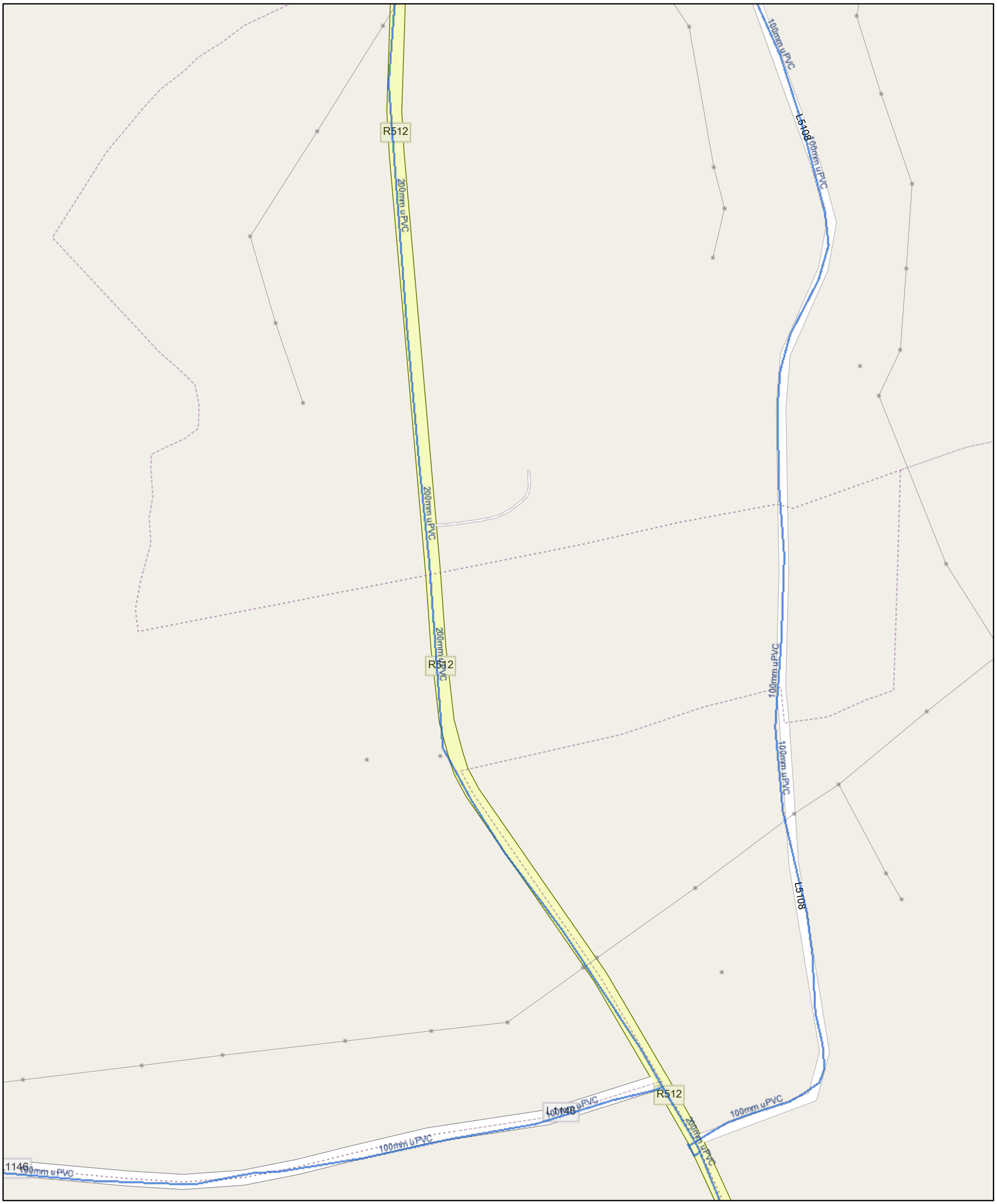
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Irish Water Network



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Sewer Mains (Private)
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Private Water Network Structures
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Water Distribution Mains
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Storm Manholes
- Standard
- Backdrop
- Cascade
- Catchpit
- Bifurcation
- Hatchbox
- Lamphole
- Hydrobrake
- Other; Unknown

Surface Water Mains
- Surface Gravity Mains
- Surface Gravity Mains Private
- Surface Water Pressurised Mains
- Surface Water Pressurised Mains Private
- Storm Culverts
- Storm Open Drains

Sewer Manholes
- Standard
- Backdrop
- Cascade
- Catchpit
- Bifurcation
- Hatchbox
- Lamphole
- Hydrobrake
- Other; Unknown

Sewer Discharge Points
- Outfall
- Overflow
- Soakaway
- Other; Unknown
- Waste Water Treatment plant
- Waste Water Pump station
- Sewer Chambers

Sewer Mains
- Gravity - Combined
- Gravity - Foul
- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow
- Overflow

Sewer Mains (Private)
- Gravity - Combined
- Gravity - Foul
- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow
- Overflow
- Sewer Detention Areas
- Waste Water Asset Site Boundary
- Wastewater Discharge Authorisation Boundary
- Water Treatment Plant
- Abstraction Point

Reservoir
- Reservoir (Potable Water)
- Reservoir (Raw Water)
- Water Pump Stations

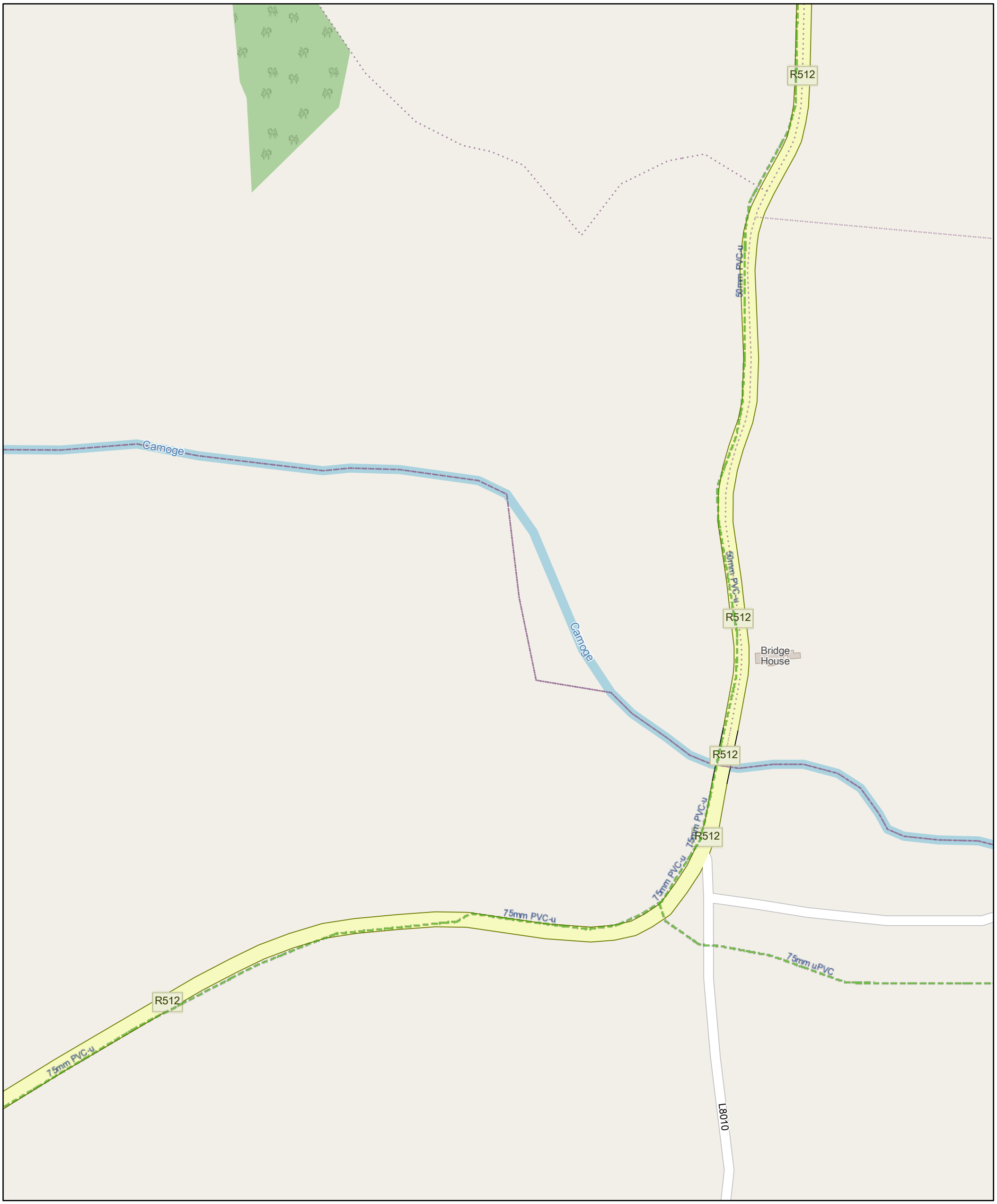
Water Network Structures
- Storage Cell
- Storage Tower
- Dosing Point
- Meter Station
- Water Pump
- Other; Unknown

Private Water Network Structures
- Storage Cell
- Storage Tower
- Dosing Point
- Meter Station
- Water Pump
- Other; Unknown

Water Distribution Mains
- Irish Water
- Private

Trunk Water Mains
- Irish Water
- Private
- Water Abandoned Lines
- Water Abandoned Points

Irish Water Network



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- Overflow

Sewer Mains (Private)
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- Gravity - Overflow
- Gravity - Unknown
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- Pumping - Foul
- Pumping - Overflow
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Water Distribution Mains
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Irish Water Network



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Waste Water Treatment plant
Waste Water Pump station
Sewer Chambers

Sewer Mains
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- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
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Overflow

Sewer Mains (Private)
- Gravity - Combined
- Gravity - Foul
- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow
- Overflow
- Sewer Detention Areas

Waste Water Asset Site Boundary
Wastewater Discharge Authorisation Boundary
Water Treatment Plant
Abstraction Point

Reservoir
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- Reservoir (Raw Water)
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Water Network Structures
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Private Water Network Structures
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- Water Pump
- Other; Unknown

Water Distribution Mains
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Trunk Water Mains
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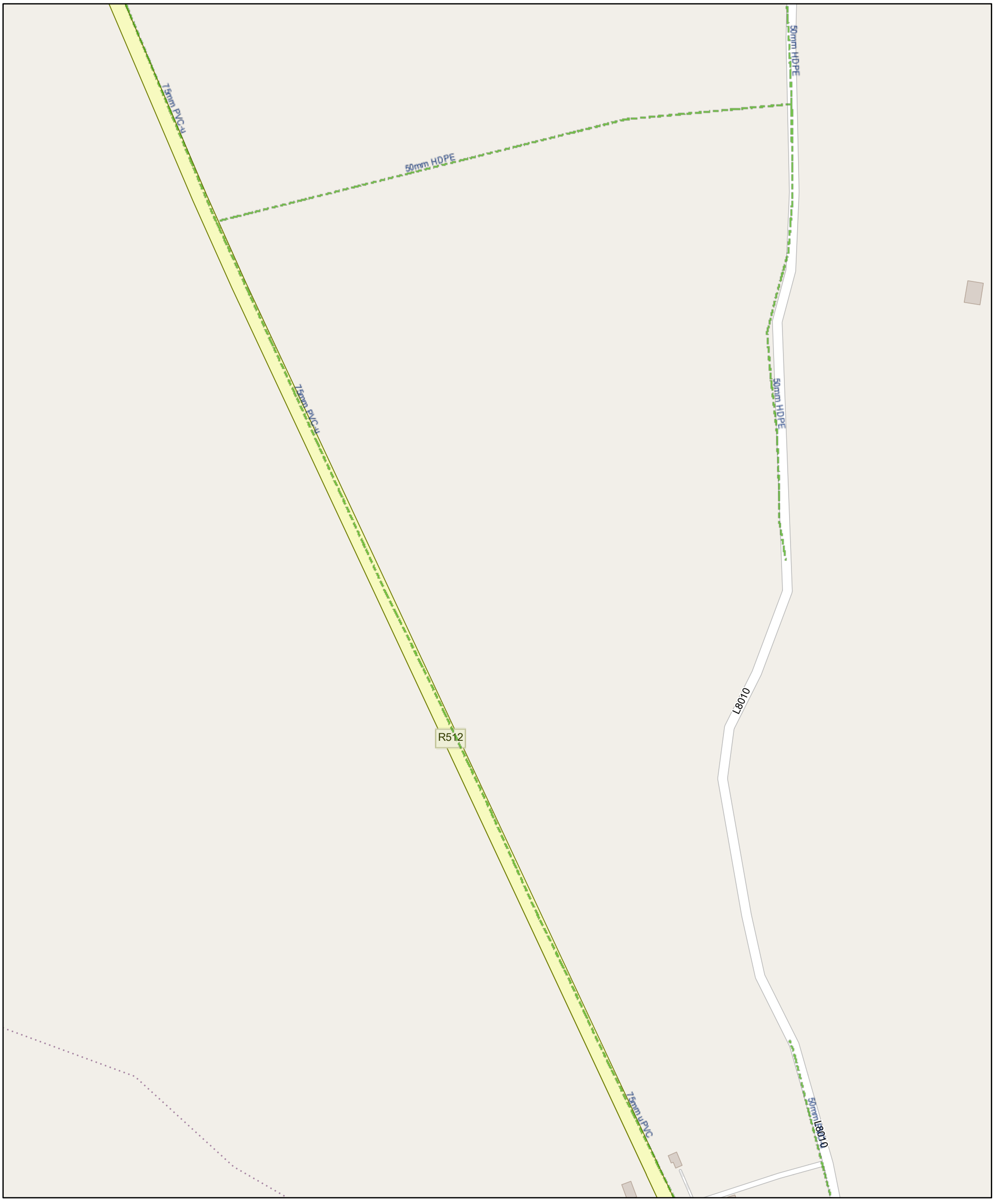
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Sewer Discharge Points
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Waste Water Treatment plant
Waste Water Pump station
Sewer Chambers

Sewer Mains
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Overflow

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- Gravity - Unknown
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Waste Water Asset Site Boundary
Wastewater Discharge Authorisation Boundary
Water Treatment Plant
Abstraction Point

Reservoir
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Water Network Structures
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- Water Pump
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- Water Pump
- Other; Unknown

Water Distribution Mains
- Irish Water
- Private

Trunk Water Mains
- Irish Water
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- Water Abandoned Lines
- Water Abandoned Points

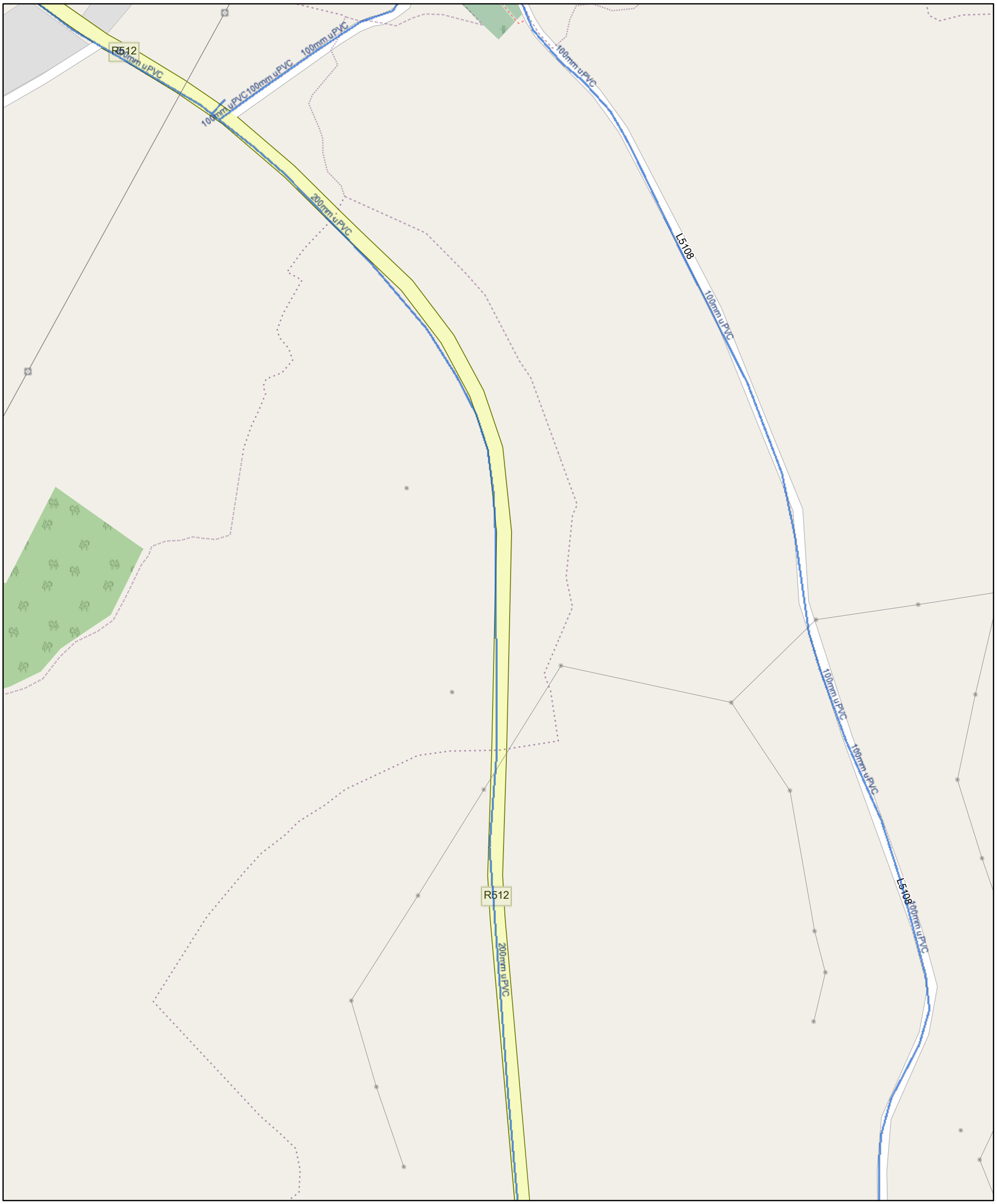
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Sewer Mains (Private)
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Water Distribution Mains
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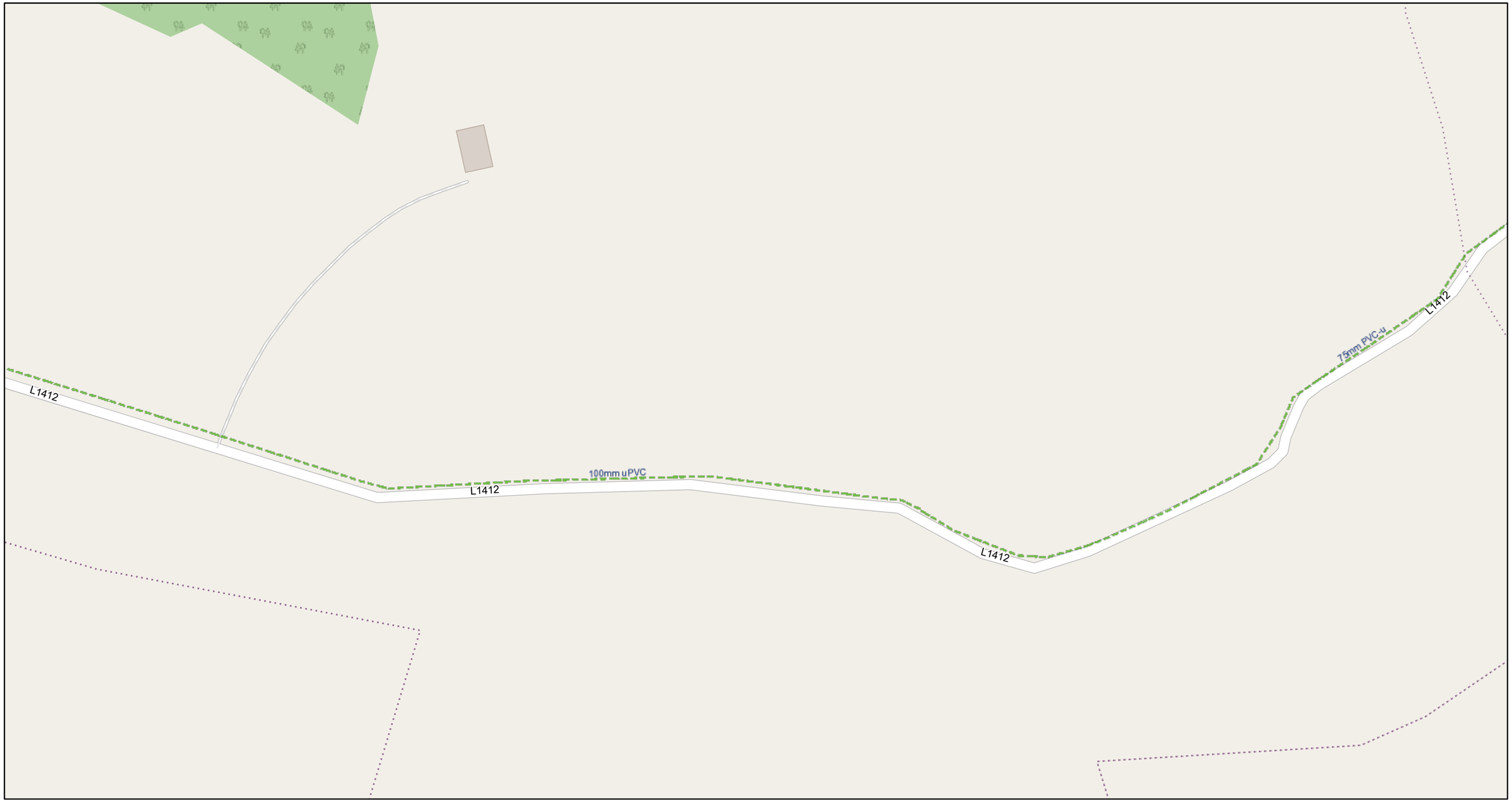
Water Network Structures
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- Meter Station
- Water Pump
- Other; Unknown

Private Water Network Structures
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- Storage Tower
- Dosing Point
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- Water Pump
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Water Distribution Mains
- Irish Water
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Trunk Water Mains
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Irish Water Network



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Sewer Mains (Private)
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- Wastewater Discharge Authorisation Boundary
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- Abstraction Point

Reservoir
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- Reservoir (Raw Water)
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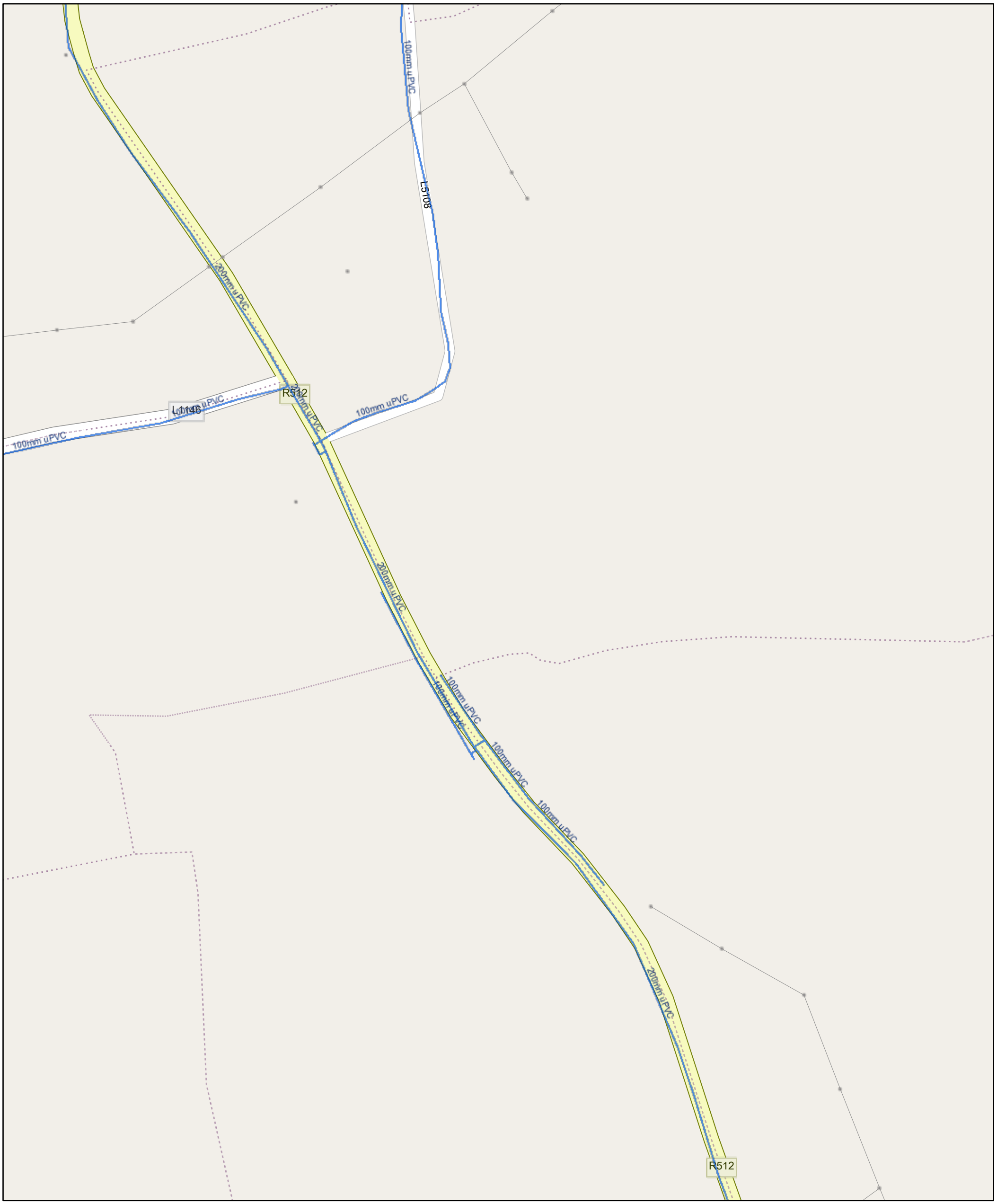
Water Network Structures
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Water Distribution Mains
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Irish Water Network



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Water Treatment Plant
Abstraction Point
Reservoir
Reservoir (Potable Water)
Reservoir (Raw Water)
Water Pump Stations
Water Network Structures
Storage Cell

Storage Tower
Dosing Point
Meter Station
Water Pump
Other; Unknown
Private Water Network Structures
Storage Cell

Storage Tower
Dosing Point
Meter Station
Water Pump
Other; Unknown
Water Distribution Mains
Irish Water

Private
Trunk Water Mains
Irish Water
Private
Water Abandoned Lines
Water Abandoned Points

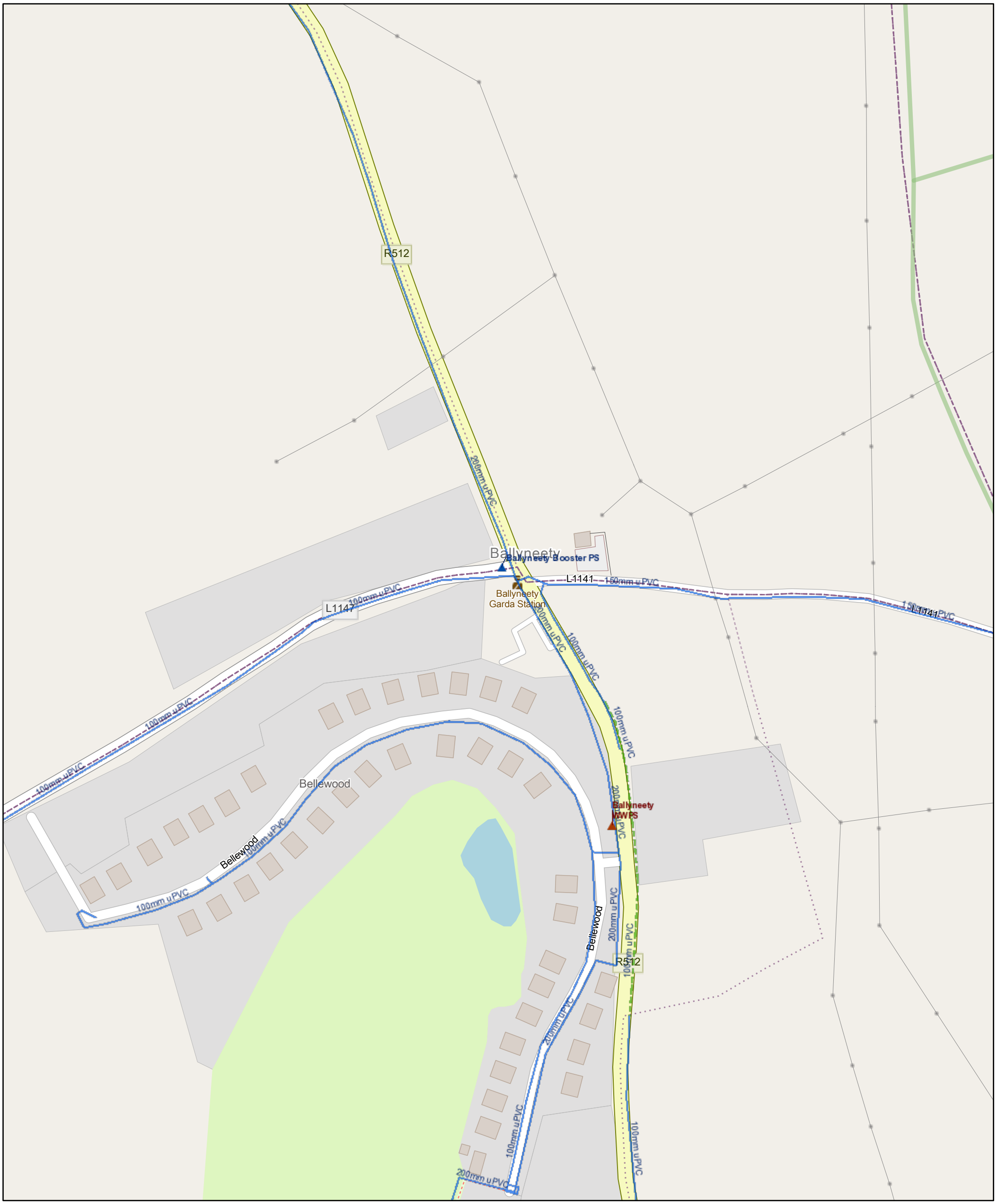
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Irish Water Network



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Surface Water Mains
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Reservoir
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Water Distribution Mains
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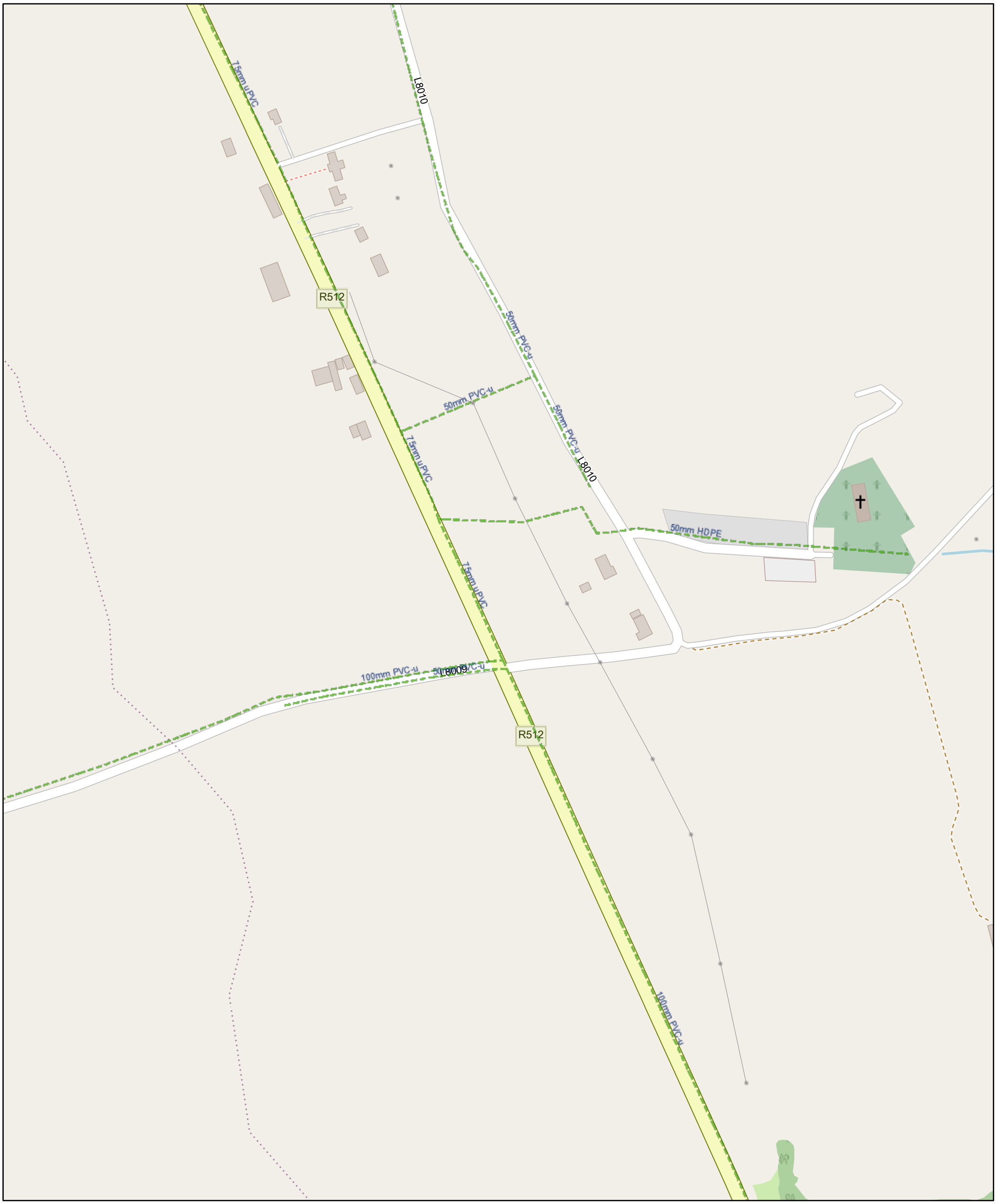
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Irish Water Network



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Surface Water Mains
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Sewer Manholes
- Standard
- Backdrop
- Cascade
- Catchpit
- Bifurcation
- Hatchbox
- Lamphole
- Hydrobrake
- Other; Unknown

Sewer Discharge Points
- Outfall
- Overflow
- Soakaway
- Other; Unknown
- Waste Water Treatment plant
- Waste Water Pump station
- Sewer Chambers

Sewer Mains
- Gravity - Combined
- Gravity - Foul
- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
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- Overflow

Sewer Mains (Private)
- Gravity - Combined
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- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
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- Pumping - Overflow
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- Syphon - Combined
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- Sewer Detention Areas
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- Water Treatment Plant
- Abstraction Point

Reservoir
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Water Network Structures
- Storage Cell
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Private Water Network Structures
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- Meter Station
- Water Pump
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Water Distribution Mains
- Irish Water
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Trunk Water Mains
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- Overflow

Sewer Mains (Private)
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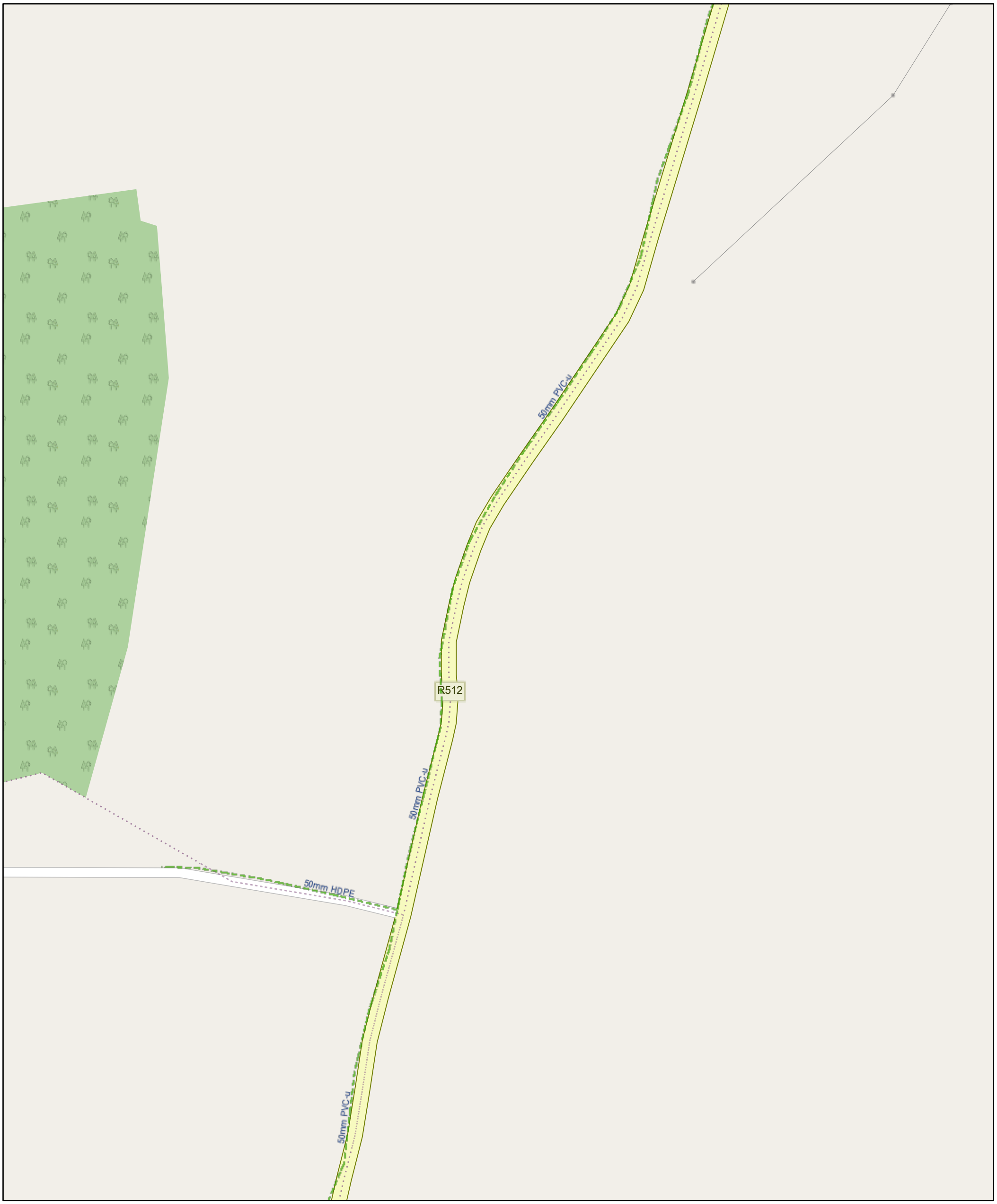
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Sewer Manholes
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Sewer Discharge Points
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Waste Water Treatment plant

Waste Water Pump station

Sewer Chambers

Sewer Mains
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- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow

Overflow

Sewer Mains (Private)
- Gravity - Combined
- Gravity - Foul
- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow
- Overflow
- Sewer Detention Areas

Waste Water Asset Site Boundary

Wastewater Discharge Authorisation Boundary

Water Treatment Plant

Abstraction Point

Reservoir
- Reservoir (Potable Water)
- Reservoir (Raw Water)

Water Pump Stations

Water Network Structures
- Storage Cell
- Storage Tower
- Dosing Point
- Meter Station
- Water Pump
- Other; Unknown

Private Water Network Structures
- Storage Cell
- Storage Tower
- Dosing Point
- Meter Station
- Water Pump
- Other; Unknown

Water Distribution Mains
- Irish Water
- Private

Trunk Water Mains
- Irish Water
- Private
- Water Abandoned Lines
- Water Abandoned Points

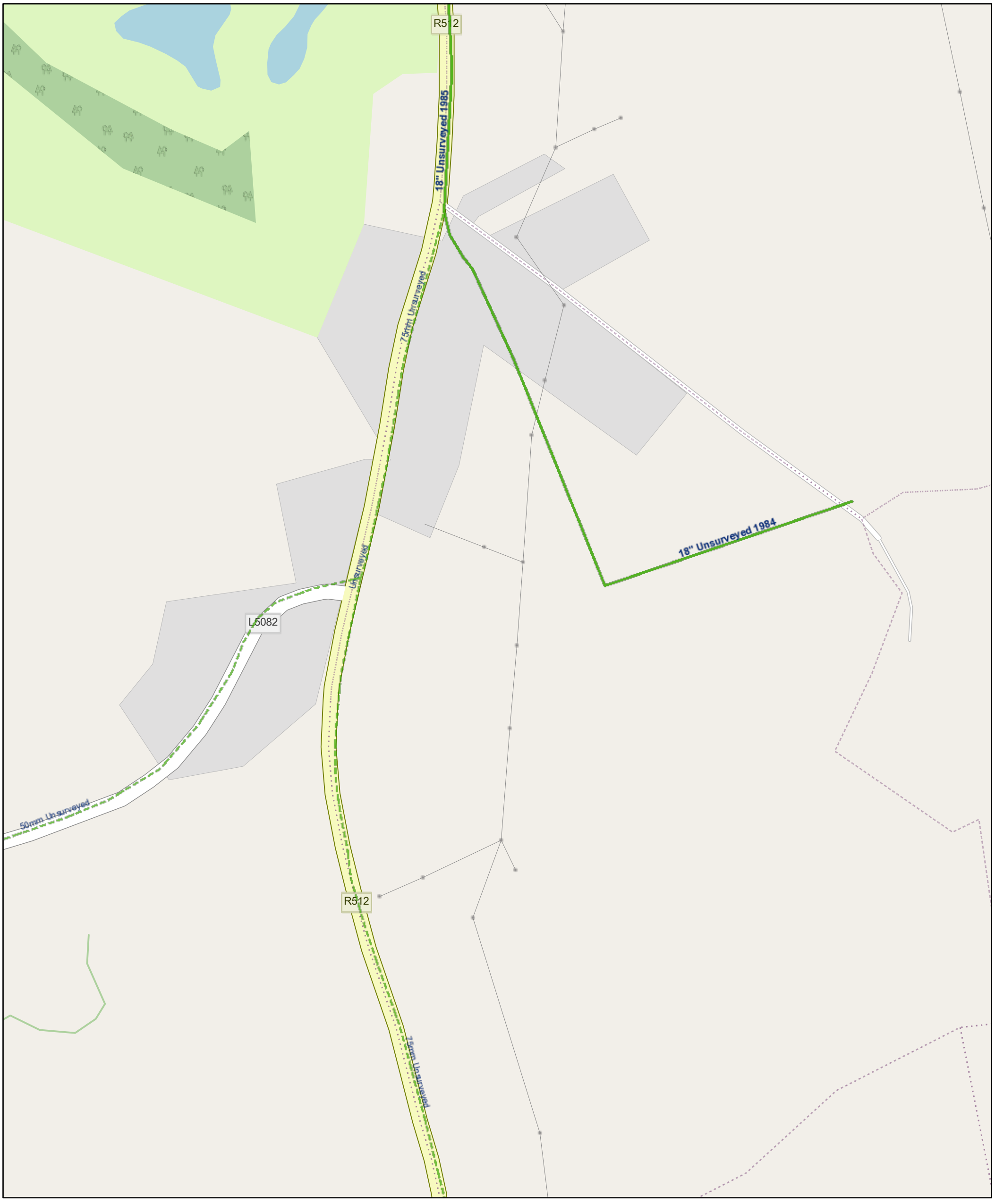
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0 0.04 0.07 0.14 mi

0 0.05 0.1 0.2 km

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Irish Water Network



06/11/2024

Storm Manholes
- Standard
- Backdrop
- Cascade
- Catchpit
- Bifurcation
- Hatchbox
- Lamphole
- Hydrobrake
- Other; Unknown

Surface Water Mains
- Surface Gravity Mains
- Surface Gravity Mains Private
- Surface Water Pressurised Mains
- Surface Water Pressurised Mains Private
- Storm Culverts
- Storm Open Drains

Sewer Manholes
- Standard
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Sewer Discharge Points
- Outfall
- Overflow
- Soakaway
- Other; Unknown

- Waste Water Treatment plant
- Waste Water Pump station
- Sewer Chambers

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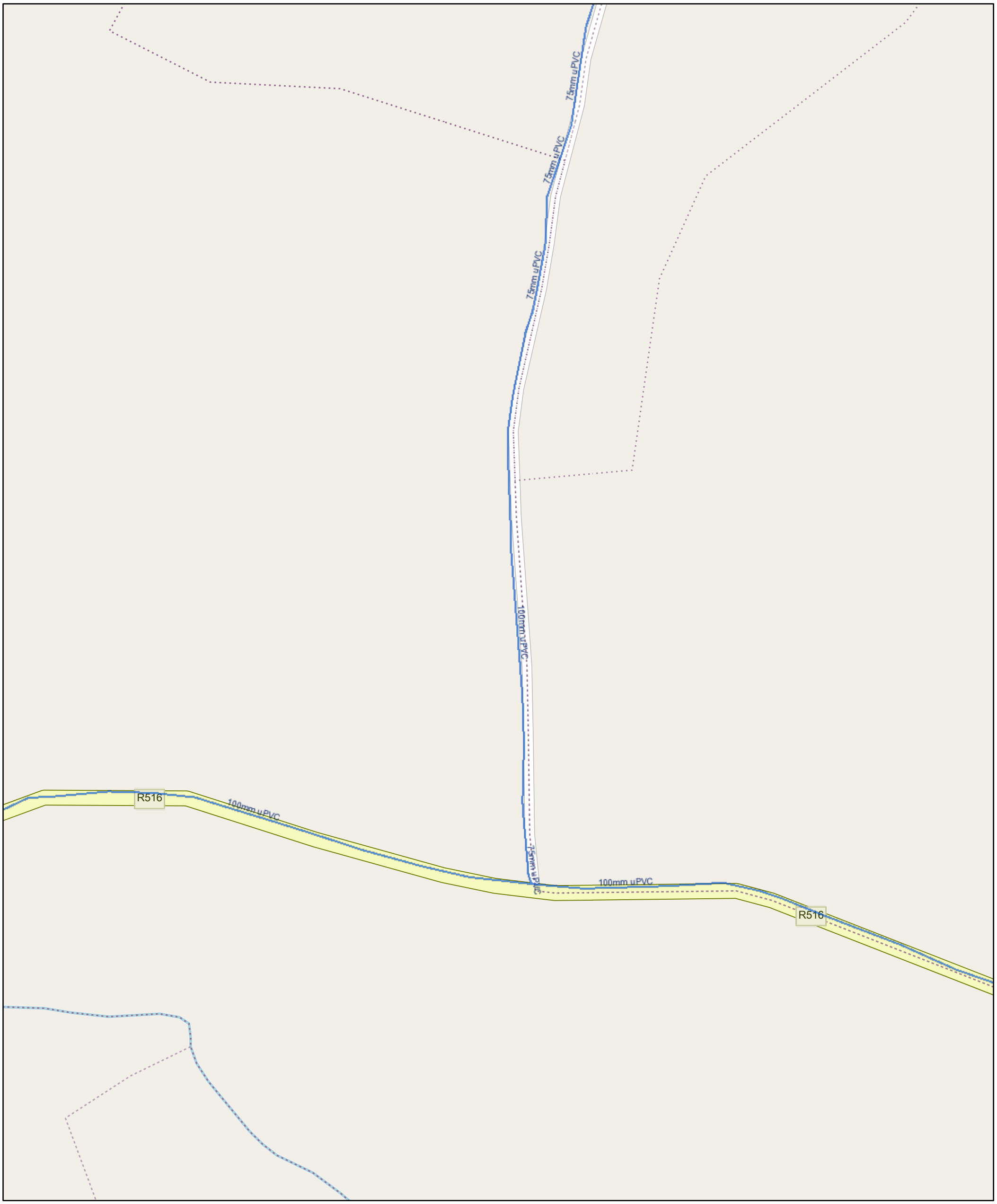
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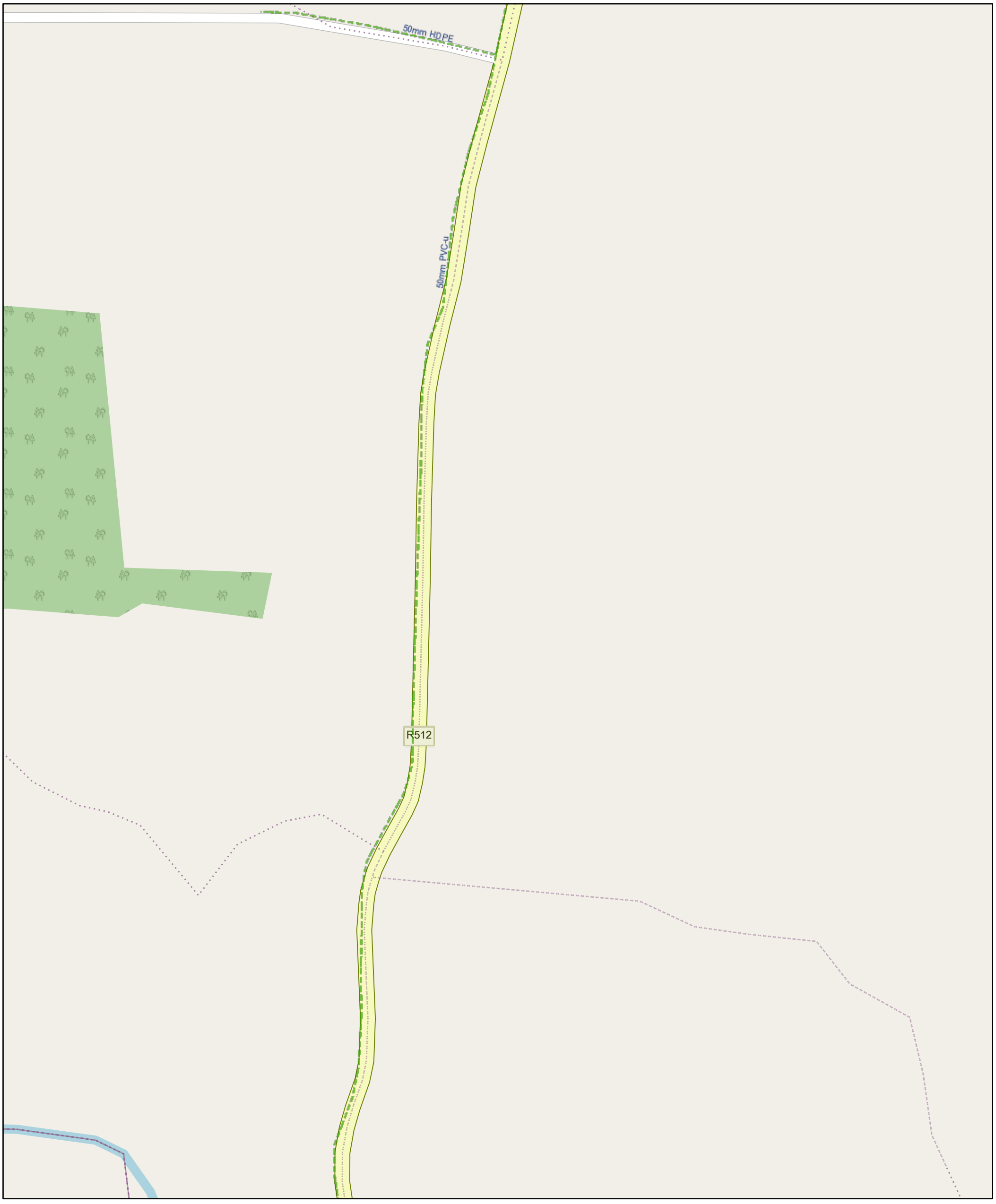
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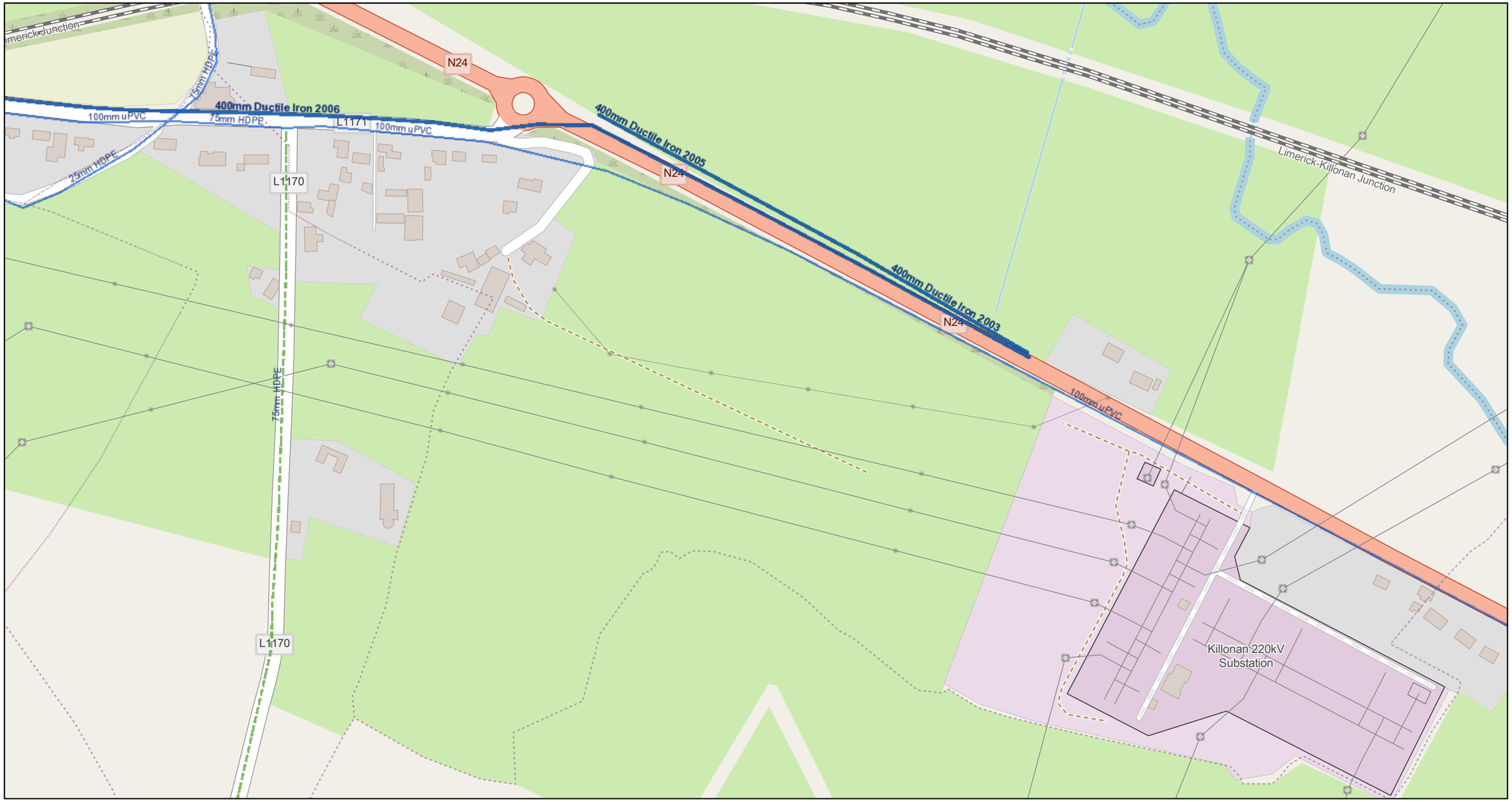
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Appendix 3
Virgin Media Email and Map

From:	Sinead Daly on behalf of Civils
To:	Pawel Duda
Cc:	Civils
Subject:	RE: Requesting Information
Sent:	11/10/2023 14:15:23

CAUTION: This email originated from outside MWP. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Pawel,

I refer to your query of 4th October about the above location. Virgin Media does not have any record of underground services at this location as indicated by your drawing.

However, please note that Virgin Media are continually expanding their network. If the location queried, is the proposed location of a New Development project, please submit your site plans to newbuild@virginmedia.ie as we may be able to expand our network to meet your new development needs.

WHILST THE INFORMATION GIVEN IS BELIEVED TO BE CORRECT NO WARRANTY IS MADE AS TO ITS ACCURACY. THIS INFORMATION MUST NOT BE RELIED UPON IN THE EVENT OF EXCAVATION OR OTHER WORKS CARRIED OUT IN THE SITE AREA. NO LIABILITY OF ANY KIND WHATSOEVER IS ACCEPTED BY VIRGIN MEDIA, ITS SERVANTS OR AGENTS FOR ANY ERROR OR OMISSION IN RESPECT OF INFORMATION CONTAINED WITHIN THIS COMMUNICATION. THE ACTUAL POSITION OF UNDERGROUND SERVICES MUST BE VERIFIED AND ESTABLISHED ON SITE BEFORE ANY MECHANICAL PLANT IS USED.

Many Thanks.

Regards,

Sinead Daly | *Plant Protection Support*
Construction Office
Virgin Media | Unit 7, Westgate Business Park, Ballymount, Dublin 24.
E: civils@virginmedia.ie | Sinead.daly@virginmedia.ie

From: Pawel Duda <pawel.duda@mwp.ie>
Sent: Wednesday, October 4, 2023 12:36 PM
To: Civils <Civils@virginmedia.ie>
Cc: Mike McCarthy <mike.mccarthy@mwp.ie>
Subject: Requesting Information

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Sir/Madam,

Malachy Walsh and Partners are consultant Civil Engineers. We would like request service maps for the area attached for Ballinlee please.

Kind Regards,

Pawel Duda

Malachy Walsh Partners

e pawel.duda@mwp.ie m +353 (0)89 236 4350
t +353 (0)61 480 164 w www.mwp.ie

Reen Point, Blennerville,
Tralee, Co. Kerry, V92 X2TK, Ireland

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P01	03/10/23	ISSUED FOR INFORMATION	PD	MMcC
REV	DATE	DESCRIPTION	BY	APP

PROJECT:

BALLINLEE GRID CONNECTION

TITLE:

SITE LOCATION (ING) FOR SERVICES REQUESTS

CLIENT:

MWP

ENGINEERING AND ENVIRONMENTAL CONSULTANTS

CORK | TRALEE | LONDON | LIMERICK

mwp.ie

DRAWN:	CHECKED:	APPROVED:
P.D.	M.McC.	C.M.
PROJECT NUMBER:	DATE:	SCALE @ A1:
22635	OCT '23	1:30000
STATUS DESCRIPTION		STATUS:
FOR INFORMATION		S2

DRAWING NUMBER:	REV:
22635 - MWP -GR- 00 - SK - C - 0101	P01

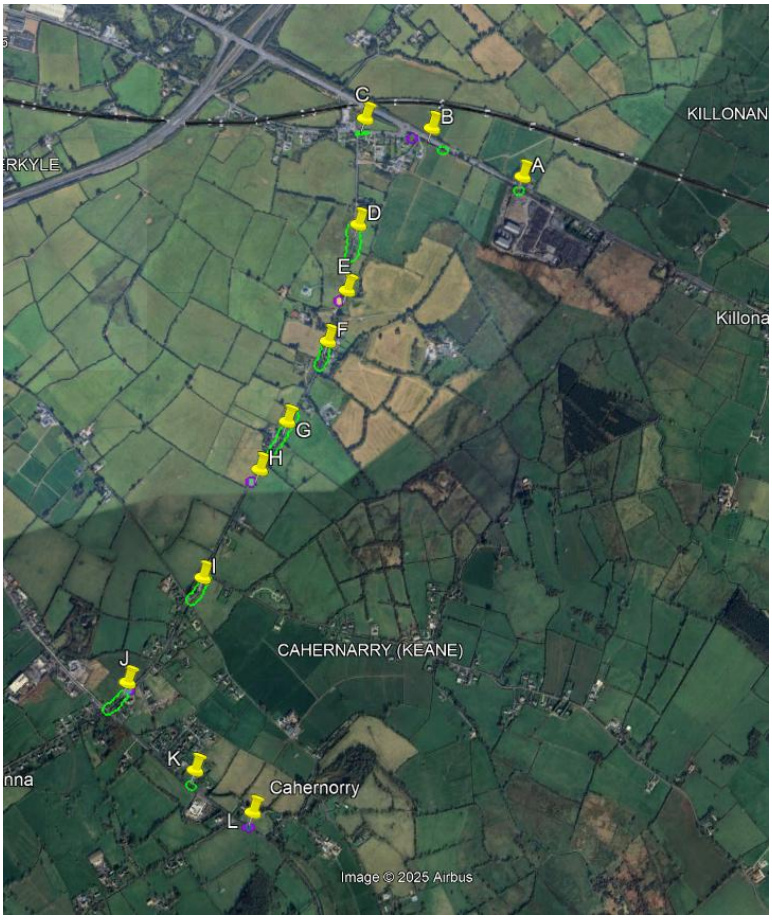
Appendix 2D

Appendix 4 Ground Penetrating Radar Report

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PAS12 Survey Report for Ground Penetrating Radar Survey & Mapping of Underground Utility Services and Structures of Ballinlee, Limerick

Survey Areas




M
N
O
P
Ballyneety
Q
R
Ballyneety Golf Club
BALLYMACREESE
S
T
AGARDE
U
Sheehan's Cross
V
BALLYBRICKEN NO
own
er Garden
W
X
FRIARSTOWN
Skule Hill
Y
Image © 2025 Airbus


Z
Grange
AA
BB
CC
GRANGE
DD
CAHIRGUILLAMORE
EE
Grange Stone Circ
Holycross
FF
GG
GG
GG
JJ
JJ
JJ
II
ROCKBARTON
HH
Image © 2025 Airbus
KK
BALLYNANTY
LL
BALLYBANE
CAMAS NORTH
MM
BALLYREESODE
PP
OO
Camas
NN

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1. Project Requirements

The purpose of this survey is to locate all utilities within the clearance area shown above.

This survey will be carried out in line with PAS128:2022 specification. This will be a detection Type B survey using M4 methodology.

2. Personnel

Initials	Position	Fieldwork	Data-Processing	Report Compilation	QC
AB	Project Manager	☒	☐	☒	☒
OM	Utility Surveyor	☒	☐	☐	☐
SL	Trainee Utility Surveyor	☒	☐	☐	☐
CD	CAD Technician	☐	☒	☒	☒
FM	Geo-Physicist	☐	☒	☒	☒
KODS	Operations Manager	☐	☐	☒	☒

3. Licencing/Accreditations

3.1 The Survey Association

Precision Utility Mapping are full members of The Survey Association.

TSA members must adhere to high standards of professionalism and ethics in surveying and related services. A rigorous accreditation process is in place that ensures members meet specific criteria, providing clients with confidence in the quality of services they will receive. TSA members undergo thorough scrutiny to ensure they meet the association's standards. They are well-trained in various survey methodologies, data collection techniques, and data analysis.

3.2 PUMA

PUMA (PAS128 Utility Mapping Accreditation) is an accreditation scheme developed by The Survey Association. This accreditation scheme has been established to evaluate TSA members to ensure consistent compliance with PAS 128:2022 in respect of the scope of compliance for which the member has applied and against good /best practice.

3.3 Ofcom Ground Probing Radar Licence

Section 1(1) of the Wireless Telegraphy Act 2006 makes it an offence for any person to establish or use any station for wireless telegraphy or to install or use any apparatus for wireless telegraphy except under and in accordance with a licence granted by Ofcom under that section unless the radio device is exempt from licensing requirements.

Precision Utility Mapping are currently licensed (Licence No. 1223069/1) for use of GPR until 28/02/2026. A copy of our licence is available upon request.

4. Survey Dates

Site Start Date : 05/03/2025

Site End Date : 20/03/2025

Issue Date : 24/03/2025

Report Issue : 28/05/2025

5. Field Equipment Used

Type	Make	Model
EML	Vivax	vLoc 3 Pro
GPR	IDS	STREAM UP
GNSS	Trimble	SPS986
Total Station	Trimble	SPS620
GPR	IDS	STREAM DP

All equipment used is tested, and calibrated, yearly by qualified test facilities. Certificates of conformity are available upon request.

6. Existing Service Records

6.1 Statutory Undertakers Records

Provided by client ☒

Acquired by Precision ☒

Utility Type	Present	Ordered/Received Date	Order Date
EIRCOM	Yes	18/02/2025	18/02/2025
Water	Yes	18/02/2025	18/02/2025
Gas	Yes	18/02/2025	18/02/2025
Electric	Yes	18/02/2025	18/02/2025
BT	Yes	18/02/2025	18/02/2025
VIRGIN	Yes	18/02/2025	18/02/2025
ENET	Yes	18/02/2025	18/02/2025
FOUL	Yes	18/02/2025	18/02/2025

Any desktop information should be treated as historical as the buried assets present might have changed since the drawing was last updated. Where a period of validity is stated, this should be respected, and new plans obtained. Every effort should be made to acquire the most up to date plans available.

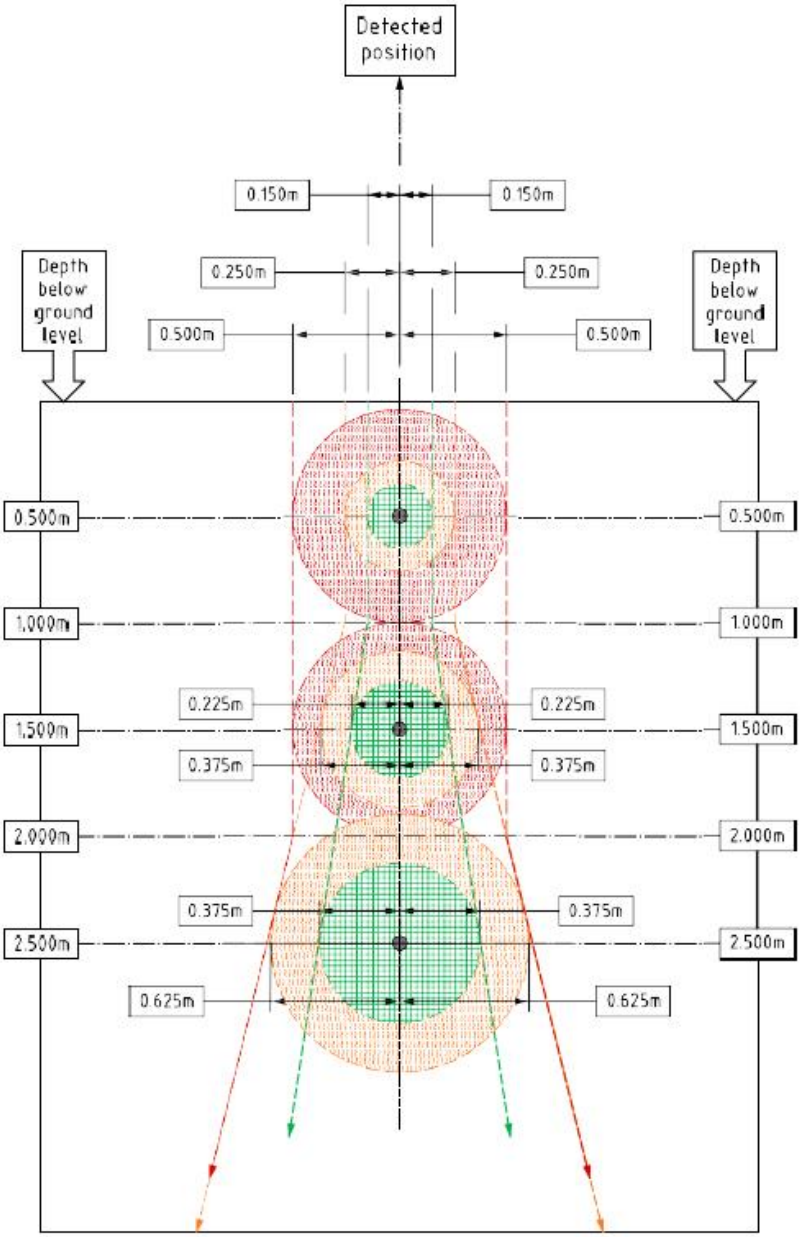
6.2 As-built Records

Not applicable

7. Quality Levels of Survey Outputs

Survey type (Establish with client prior to survey)		Quality level	Post- processing (GPR data)	Location accuracy		Supporting data
				Horizontal	Vertical	
B	Detection	QL-B4	No	Undefined	Undefined	A utility segment which is suspected to exist (either on QL-D or QL-C records) but has not been detected and is therefore shown as an assumed route.
		QL-B4P	Yes			
		QL-B3	No	±500 mm	Undefined (No reliable depth measurement possible)	Horizontal location only of the utility detected by one of the geophysical techniques used. EML field unable to estimate depth and horizontal accuracies within B2 tolerances with confidence. Features present within the GPR data that indicate the presence of a utility but do not directly correlate to its position (e.g. trench sides or fill detected by GPR without positive identification of utility).
		QL-B3P	Yes			
		QL-B2	No	±250 mm Refer to Section 7 for accuracy achievable at what depth.	±40% of detected depth	Horizontal and vertical location of the utility detected by one of the geophysical techniques used. Symmetrical field achieved resulting in peak and null measurements within B2 tolerance and/or present in GPR data where both depth estimates, and horizontal location can be confidently established to the required accuracies.
		QL-B2P	Yes			
		QL-B1	No	±150 mm Refer to Section 7 for accuracy achievable at what depth.	±15% of detected depth	Horizontal and vertical location of the utility detected by one of the geophysical techniques used. Symmetrical field achieved resulting in peak and null measurements within B1 tolerance and/or present in GPR data where both depth estimates, and horizontal location can be confidently established to the required accuracies.
		QL-B1P	Yes			
A	Verification	QL-A	—	±50 mm	±50 mm	Horizontal and vertical location of the top, bottom, or centreline of the utility (to be indicated on drawings).

8. Horizontal & Vertical Accuracy



Key

- QL-B1 ±15% of depth or 0.150 m (whichever is greater)
- QL-B2 ±25% of depth or 0.250 m (whichever is greater)
- QL-B3 detection successful but no depth, horizontal ±0.500 m

NOTE The accuracy decreases beyond a depth of 2.000 m.

- Detected utility position

9. Detection Methodologies

Method	Survey grid/search resolution				Quality Levels Achievable	Typical Application
	EML	GPR		Other		
		General	Post- processing			
M1	Orthogonal searches transect at ≤10 m intervals and when following a utility trace, search transects at ≤5 m intervals	Either: boundary survey incorporating a minimum of 5 survey transects around perimeter of site, spaced not more than 3 m apart: or ≤5 m orthogonal grid; or multiple antenna array	No	≤5 m survey grid	B1, B2, B3, B4	Used where the density of services is typical of an undeveloped area.
M1P			Yes		B1P, B2P, B3P	
M2	Orthogonal searches transect at ≤5 m intervals and when following a utility trace, search transects at ≤2 m intervals	Either: ≤2 m orthogonal; or multiple antenna array	No	≤2 m survey grid	B1, B2, B3, B4	Used where the density of services is typical of a suburban area or where the utility services cross a boundary of a survey area.
M2P			Yes		B1P, B2P, B3P	
M3P	Orthogonal searches transect at ≤2 m intervals and when following a utility trace, search transects at ≤1 m intervals	Either: a) ≤1 m orthogonal; or multiple antenna array	Yes	≤1 m survey grid	B1P, B2P, B3P, B4	Used where the density of services is typical of a busy urban area or for clearance surveys prior to operations such as borehole/ drilling/ fencing/tree planting.
M4P	Orthogonal searches transect at ≤2 m intervals and when following a utility trace, search transects at ≤0.5 m intervals	Either: a) ≤0.5m orthogonal; or multiple b) multichannel GPR array with swathes collected in both directions, and gaps between swathes limited to ≤0.5m;	Yes	≤0.5 m survey grid	B1P, B2P, B3P, B4	Used where the density of services is typical of a congested city area.

		c) a dual polarized multichannel array with swathes collected in one direction, but ensuring area coverage is achieved with no gaps between swathes.				

10. Site Geology

The results from GPR scanning are highly dependent the underlying ground conditions. Conductive soils, like saturated clays and silts, lead to waves travelling slower and attenuating quickly, and achieve only shallow depth penetrations, with less chance of finding deep targets. Dense wet clay can be especially problematic for GPR surveys, as penetration is poor. Low conductive soils, such as dry sandy soils, are more likely to allow waves to travel quickly and resist signal attenuation and permit much greater depths of investigation. There are always exceptions to these conditions. Prior to site attendance, the expected geology of the clearance area is checked on the Irish Geological Society's website.

The site conditions of the clearance area have been identified as mainly limestone sediment types, there is however areas of the survey scope showing raised peat, fen peat, kartsified bedrock and lacustrine sediments.

11. Survey Results

The remote detection of underground utilities uses geophysical techniques. As the survey area is scanned, signals are received and analysed for anomalous responses. If the positions of these anomalies form linear strings they can be interpreted as features, such as utilities.

Post-processing data can enhance and identify signals related to buried services that would otherwise be missed and is a necessary step in interpreting areas of complex utility networks.

PAS128 specifies that, at minimum, 2 detection technologies are used in detecting utilities. In this instance EML & GPR have been used. It should be noted that no detection technique can detect every type of underground utility in every location.

Calibration of the GPR is carried out on site during the works. Calibration is carried out to confirm depth readings and is carried out upon starting works, on each new service being traced, and when there are any changes in ground conditions.

Site weather conditions during survey works were warm and dry.

11.1 Gas

The gas that was located within the survey scope was done so using the GPR for a live mark-up on site and post-processing the GPR data that was collected on site. When scanning for the gas, visual indicators i.e. valves, and domestic gas connections are used in the pinpointing of the gas lines and connections for buildings. Due to subsurface conditions some of the gas network could not be located on site, this gas has been added to our survey as a QL-B4 as we were not able to ascertain its position with the GPR that was used to scan the survey area.

11.2 Water

The water that was located within the survey scope was done so using the GPR for a live mark-up on site and post-processing the GPR data that was collected on site. When scanning for the water, visual indicators i.e. valves, hydrants and domestic connections are used in the pinpointing of the watermain and connections for buildings. As a result of the above-mentioned method parts of the water network has been located. There has also been water added as QL-B4 for water routes between visual indicators that could not be verified on site using the GPR due to the subsurface conditions.

11.3 Electric

Electrical services are traced on site using EML. Direct connections are made to above ground features (lampposts, mini pillars etc) to enable tracing of these cables followed by induction methods to traces cables that can't be accessed from above ground.

11.4 Telecoms

All pits on site have been opened and cables within traced. Manhole cards have been created for each pit opened. Only underground Eircom, Virgin Media and ENET cables are shown on the drawings.

11.5 Surface/Foul Water/Combined Sewer

All surface/foul/combined drainage manholes have been lifted on site with manhole cards created. Connections between manholes has been verified through sounding/dye testing and complimented by GPR imagery.

11.6 Unidentified Services

Any unknown signals traced, with EML or GPR, will be attempted to be traced back to known point for verification. Where this is not possible, due to signal loss or no features found, these targets will be designated as either EML or GPR linear targets depending on the method used to trace them.

12. Conclusions and Recommendations

As is usual routine for us works start by lifting all manhole covers first and completing manhole cards. This also allows to us to fully assess the site and make a visual log of all direct connection possibilities.

Once this has been completed, we start tracing all visible services and those present on the statutory plans.

Eircom/Virgin Media are traced from any pits that are present on site. Where these routes do not contain conductible cables a copper conductor tracer rod is inserted into the conduit to allow a trace signal to be applied and the route traced. Any services without direct access are either traced by induction EML or GPR scanning, depending on their material.

Where direct access to utilities is possible, these will be individually traced. It should be noted however, that a single line on the drawing may represent more than one service, this is especially true for services with no direct access or that are closely spaced together.

A perimeter/grid scan is then carried out, in accordance with the PAS128 methodology mentioned in section 1, using GPR & EML to identify any unknown services that may enter the clearance area.

For all excavations, assume that underground utilities are present and act accordingly.

To avoid buried services effectively it is necessary to positively identify and locate the services that are present.

Attention is drawn to laws, rules, and regulations applicable to vacuum excavating or hand digging near or atop dangerous utilities such as electric, gas, fuel or petroleum.

No utility mapping survey can be considered a 100% accurate depiction of the sub-surface environment, and the use of these drawings does not always remove the requirement for the use of safe digging techniques. Any excavations undertaken on site are to be in accordance with HSA Code of Practice for Avoiding Danger from Underground Services 2016.

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